


I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature.....
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 14/07/2021 REF 20260-5



NEWPARK - PRECINCT 5 CONSTRUCTION CERTIFICATE

PROPOSED LOT, ROAD AND DRAINAGE WORKS

COUNCIL REF : DA-17-01165



LOCALITY SKETCH

Prepared By:

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

	These plans are referred to in certificate no. 15879 approved by:
	Christopher Louis Wahbe Accredited Certifier
	Registration No: BPB 3015 Categories: B1, C1, C2, C3, C4, C6 & C15
	Land Development Certificates www.LDC.com.au

ISSUE FOR CONSTRUCTION APPROVAL

PLAN No. 998511/CC400	C
FILE No. 998511CC400	

Plot: 26 September, 2019 2:42:00 PM File Name: J:\998511\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCTS\PRECINCT 5 DOCUMENTATION\998511CC402.dwg



SECTION 7.11 RAINGARDEN & GPT
 RAINGARDEN & GPT. CONTRIBUTIONS PLAN No.21,
 ITEMS ML8.0 AND ML8.1, SUBJECT TO SEPARATE
 APPROVAL REFER 998511/CC500-525

SECTION 7.11 DETENTION BASIN 2
 BASIN AND BIO-DETECTION RAIN GARDEN
 CONTRIBUTIONS. PLAN No.21 ITEMS ML5.0 AND
 ML5.1 FINAL ARRANGEMENT SUBJECT TO
 SEPARATE APPROVAL.

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

NEWPARK
 PRECINCT 6

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Signature:
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 14/07/2021 REF 20260-5

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LDC
 Christopher Louis Wahbs
 Accredited Certifier
 Registration No: BPB 3015
 Categories: B1,C1,C2,C3,C4,C6 & C15
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LEGEND

- PRECINCT 5 SITE
- PRECINCT BOUNDARY
- PEDESTRIAN EVACUATION ROUTE
- EXISTING WATERCOURSE
- 40m OFFSET

AMENDMENT	DES	DRN	CKD	APR	DATE
C	DG	VS	RO	MS	26/09/19
B	DG	NM/UM	RO	MS	12/09/19
A	DG	NM	RO	MS	02/09/18

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

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

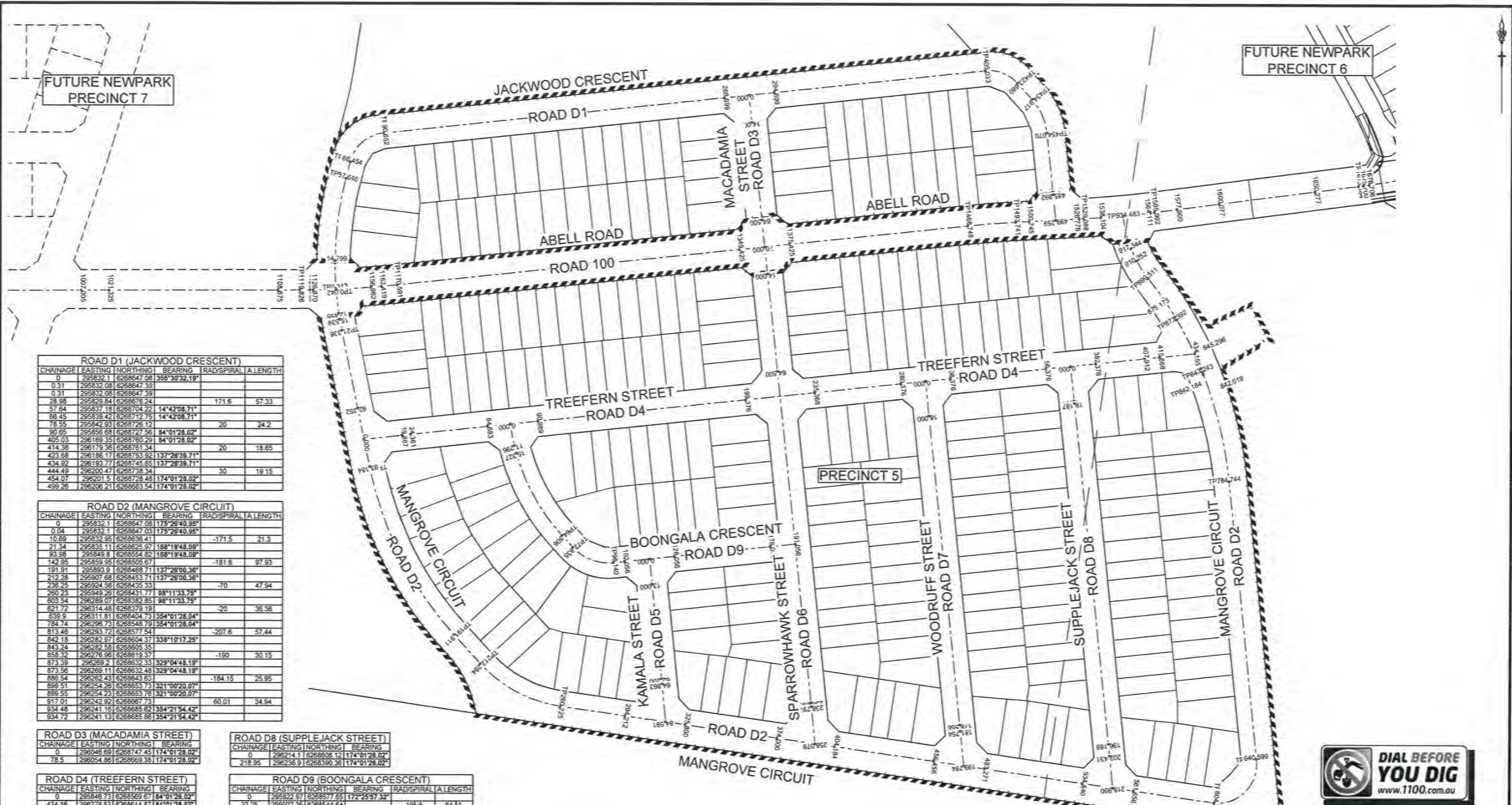
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**NEWPARK
 PRECINCT 5
 OVERALL PLAN**

PLAN No: 998511/CC402 **C**
 FILE No: 998511CC402
 SHEET SIZE: A1 ORIGINAL

Plotted: 26 September, 2019 2:42:00 PM File Name: J:\998511\CC403 - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCTS\PRECINCT 5 DOCUMENTATION\998511CC403.dwg



ROAD D1 (JACKWOOD CRESCENT)					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295832.1	6268647.06	355°30'32.19"		
0.31	295832.08	6268647.39			
0.31	295832.08	6268647.39		171.6	57.33
28.58	295829.84	6268676.24			
57.54	295837.18	6268704.22	14°42'08.71"		
66.45	295839.42	6268712.75	14°42'08.71"		
78.55	295842.93	6268726.12		20	24.2
90.65	295856.68	6268727.56	84°01'28.02"		
405.03	296169.35	6268760.29	84°01'28.02"		
414.38	296179.38	6268761.34		20	18.65
423.68	296186.17	6268753.92	137°28'38.71"		
434.92	296193.77	6268745.65	137°28'38.71"		
444.49	296200.47	6268738.34		30	19.15
454.07	296201.5	6268728.48	174°01'28.02"		
499.26	296206.21	6268683.54	174°01'28.02"		

ROAD D2 (MANGROVE CIRCUIT)					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295832.1	6268647.06	175°26'40.95"		
0.04	295832.1	6268647.03	175°26'40.95"		
10.69	295832.25	6268636.41		-171.5	21.3
21.34	295835.11	6268625.97	168°19'48.09"		
93.68	295849.8	6268554.82	168°19'48.09"		
142.95	295859.95	6268505.67		-181.6	97.93
191.91	295869.3	6268468.71	137°28'00.36"		
212.26	295907.68	6268453.71	137°28'00.36"		
236.25	295924.56	6268435.33		-70	47.94
260.23	295943.28	6268431.77	88°11'33.75"		
503.34	296029.07	6268382.85	88°11'33.75"		
621.72	296314.48	6268379.19		-20	36.36
639.9	296311.81	6268404.73	354°01'28.04"		
784.74	296296.73	6268548.79	354°01'28.04"		
813.46	296293.72	6268577.54		-207.6	57.44
842.18	296282.97	6268604.37	338°10'17.25"		
843.24	296282.58	6268605.35			
858.32	296276.96	6268613.37		-190	30.15
873.39	296269.2	6268632.33	329°04'48.19"		
873.56	296269.11	6268632.48	329°04'48.19"		
886.54	296262.43	6268643.63		-184.15	25.95
899.51	296254.26	6268653.73	321°00'20.07"		
899.55	296254.23	6268653.76	321°00'20.07"		
917.01	296242.92	6268667.73		60.01	34.94
934.48	296241.16	6268685.62	354°21'54.42"		
934.72	296241.13	6268685.66	354°21'54.42"		

ROAD D3 (MACADAMIA STREET)			
CHAINAGE	EASTING	NORTHING	BEARING
0	296046.69	6268747.45	174°01'28.02"
78.5	296054.86	6268669.38	174°01'28.02"

ROAD D4 (TREEFERN STREET)			
CHAINAGE	EASTING	NORTHING	BEARING
0	295846.73	6268569.67	84°01'28.02"
434.16	296278.53	6268614.67	84°01'28.02"

ROAD D5 (KAMALA STREET)			
CHAINAGE	EASTING	NORTHING	BEARING
0	295925.31	6268558	174°01'28.02"
84.59	295904.14	6268423.87	174°01'28.02"

ROAD D6 (SPARROWHAWK STREET)			
CHAINAGE	EASTING	NORTHING	BEARING
0	296054.86	6268669.38	174°01'28.02"
258.08	296081.73	6268412.7	174°01'28.02"

ROAD D7 (WOODRUFF STREET)			
CHAINAGE	EASTING	NORTHING	BEARING
0	296138.52	6268600.21	174°01'28.02"
189.76	296159.31	6268401.53	174°01'28.02"

ROAD D8 (SUPPLEJACK STREET)			
CHAINAGE	EASTING	NORTHING	BEARING
0	296214.1	6268608.12	174°01'28.02"
218.95	296238.9	6268330.36	174°01'28.02"

ROAD D9 (BOONGALA CRESCENT)					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295822.97	6268577.65	172°25'57.32"		
32.25	295927.35	6268544.64		-105.6	64.51
64.51	295949.87	6268520.12	137°28'00.36"		
72.84	295955.51	6268513.99	137°28'00.36"		
84.49	295964.01	6268504.72		-25	23.3
96.14	295976.52	6268506.03	84°01'28.02"		
191.06	296070.92	6268515.92	84°01'28.02"		

ROAD 100 (ABELL ROAD)					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
1119.57	295813.15	6268646.67	89°56'30.17"		
1144.96	295838.55	6268646.74		-500	50.77
1170.34	295863.82	6268649.38	84°01'28.02"		
1468.5	296160.35	6268680.42	84°01'28.02"		
1480.99	296172.79	6268681.72		500	24.99
1483.49	296185.27	6268682.4	86°53'18.28"		
1528.84	296220.56	6268684.32	86°53'18.28"		
1547.29	296238.99	6268685.32		-500	36.9
1565.74	296257.3	6268687.68	82°39'34.38"		

These plans are referred to in certificate no. 15879 approved by:

Christopher Louis Wahbe
 Accredited Chartered
 Registration No: BPS 2015
 Categories: B1, C1, C2, C3, C4, C6 & C18

Land Development Certificates
www.LDC.com.au

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates
 Signature:
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5



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

AMENDMENT	DES.	DRN.	CKD.	APR.	DATE	
C	ISSUE FOR CONSTRUCTION APPROVAL	DG	VM	RO	MS	26/09/19
B	ISSUE FOR CAA APPROVAL	DG	NM/UM	RO	MS	12/09/19
A	ISSUE FOR CONSTRUCTION APPROVAL	DG	NM	RO	MS	02/09/18

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRTH WEST QLD NSW 2250
 P 02 4720 1300 W www.jwprince.com.au E info@jwprince.com.au

CLIENT:

WINTEN PROPERTY GROUP

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

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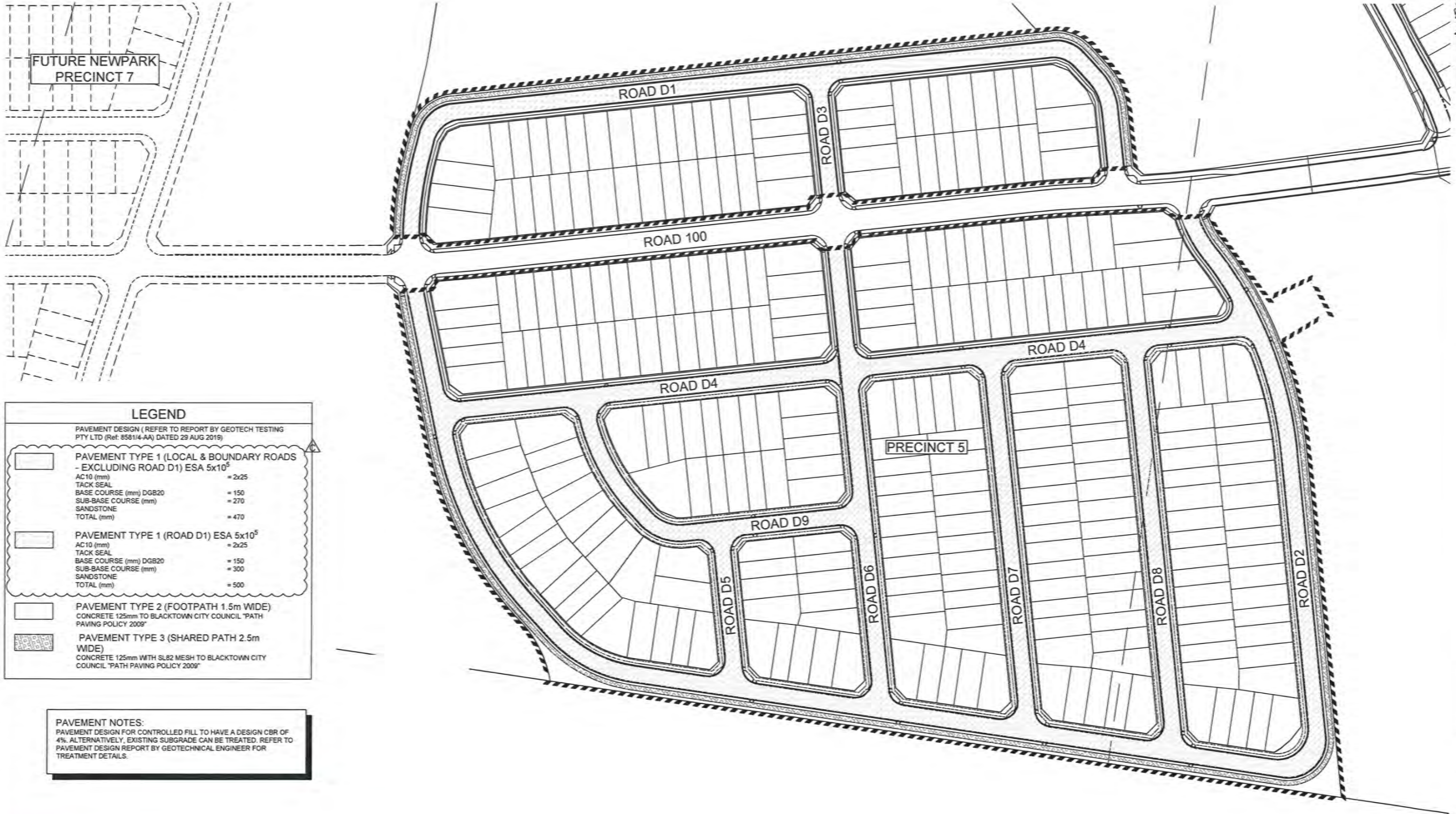
NEWPARK PRECINCT 5 ROAD SETOUT PLAN

PLAN No: 998511/CC403 C

FILE No: 998511CC403

SHEET SIZE: A1 ORIGINAL

Printed: 17 October, 2019 3:25:09 PM File Name: J:\998511\CC-Construction Certificate Approval Plans\PK11 CENTRAL PRECINCTS\PRECINCT 5 DOCUMENTATION\998511CC404.dwg



LEGEND

PAVEMENT DESIGN (REFER TO REPORT BY GEOTECH TESTING PTY LTD (Ref: 85814-AA) DATED 29 AUG 2019)

	PAVEMENT TYPE 1 (LOCAL & BOUNDARY ROADS - EXCLUDING ROAD D1) ESA 5x10⁵ AC10 (mm) = 2x25 TACK SEAL BASE COURSE (mm) DGB20 = 150 SUB-BASE COURSE (mm) = 270 SANDSTONE TOTAL (mm) = 470
	PAVEMENT TYPE 1 (ROAD D1) ESA 5x10⁵ AC10 (mm) = 2x25 TACK SEAL BASE COURSE (mm) DGB20 = 150 SUB-BASE COURSE (mm) = 300 SANDSTONE TOTAL (mm) = 500
	PAVEMENT TYPE 2 (FOOTPATH 1.5m WIDE) CONCRETE 125mm TO BLACKTOWN CITY COUNCIL "PATH PAVING POLICY 2009"
	PAVEMENT TYPE 3 (SHARED PATH 2.5m WIDE) CONCRETE 125mm WITH SL82 MESH TO BLACKTOWN CITY COUNCIL "PATH PAVING POLICY 2009"

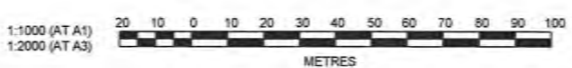
PAVEMENT NOTES:
 PAVEMENT DESIGN FOR CONTROLLED FILL TO HAVE A DESIGN CBR OF 4%. ALTERNATIVELY, EXISTING SUBGRADE CAN BE TREATED. REFER TO PAVEMENT DESIGN REPORT BY GEOTECHNICAL ENGINEER FOR TREATMENT DETAILS.

These plans are referred to in certificate no. **15879** approved by:
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPB 3015
 Categories: B1, C1, C2, C3, C4, C6 & C15
Land Development Certificates
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Signature:
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 14/07/2021 REF 20260-5



AMENDMENT	DES	DRN	CKD	APR	DATE
C					28/09/19
B					12/09/19
A					02/09/18

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2250
 P 02 4720 3300 W www.jwprince.com.au E jwpr@jwprince.com.au

CLIENT:

WINTEN PROPERTY GROUP

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

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NEWPARK PRECINCT 5 PAVEMENT PLAN

PLAN No: **998511/CC404** C

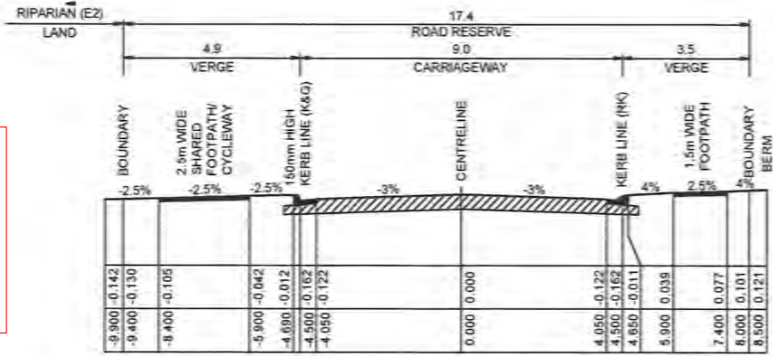
FILE No: 998511CC404

SHEET SIZE: A1 ORIGINAL

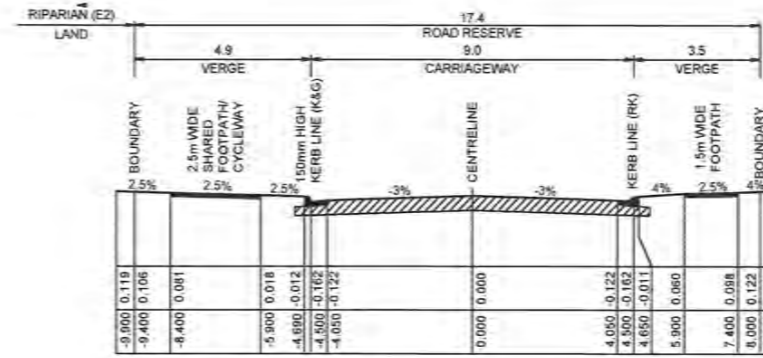
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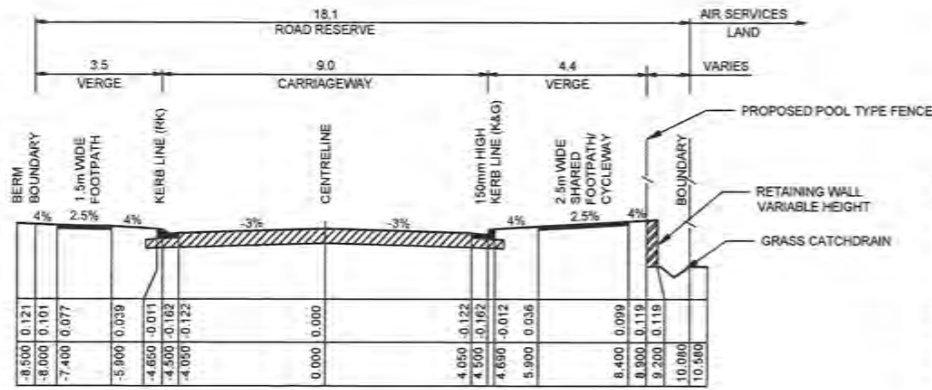
Signature: 
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 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5



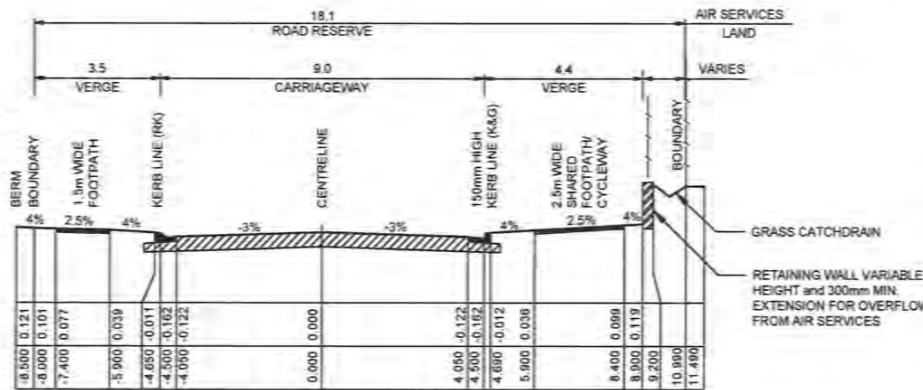
TYPICAL CROSS SECTION - JACKWOOD CRESCENT
 ROAD D1 (CH 0 - 67, 420 - END)
 1:100 NATURAL



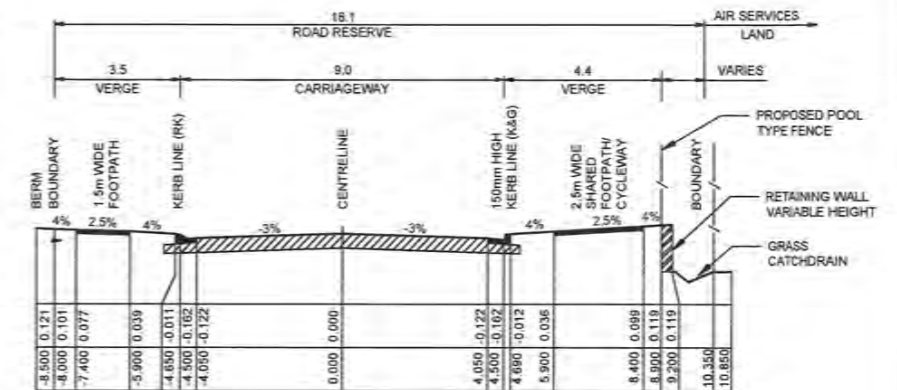
TYPICAL CROSS SECTION - JACKWOOD CRESCENT
 ROAD D1 (CH 90.65 - 405)
 1:100 NATURAL



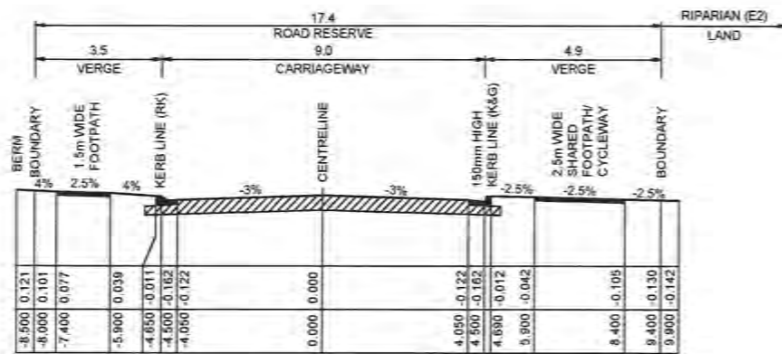
TYPICAL CROSS SECTION - MANGROVE CIRCUIT
 ROAD D2 (CH - 240-280)
 1:100 NATURAL



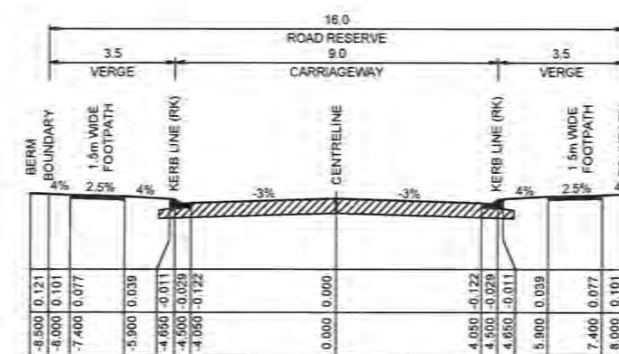
TYPICAL CROSS SECTION - MANGROVE CIRCUIT
 ROAD D2 (CH - 280-580)
 1:100 NATURAL



TYPICAL CROSS SECTION - MANGROVE CIRCUIT
 ROAD D2 (CH - 580 - 615)
 1:100 NATURAL



TYPICAL CROSS SECTION - MANGROVE CIRCUIT
 ROAD D2 (CH 0-240, 615 - END)
 1:100 NATURAL



TYPICAL CROSS SECTION -
 MACADAMIA STREET, TREEFERN STREET, KAMALA STREET,
 SPARROWHAWK STREET, WOODRUFF STREET, SUPPLEJACK STREET,
 BOONGALA CRESCENT
 ROAD D3, D4, D5, D6, D7, D8 & D9
 1:100 NATURAL

These plans are referred to in certificate no. **15879** approved by:

LDC Christopher Louis Wahbe
 Accredited Certifier

Regulation No: 8982 0015
 Categories: B1, C1, C2, C3, C4, C8 & C15

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CLIENT:

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AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

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NEWPARK PRECINCT 5
 TYPICAL ROAD SECTIONS

PLAN No: 998511/CC405 **C**
 FILE No: 998511CC405
 SHEET SIZE: A1 ORIGINAL

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

DES	DRN	CHKD	APR	DATE
C				26/09/19
B				12/09/19
A				02/09/18

Plotted: 27 September, 2019 10:49:24 AM File Name: J:\998511\CC406 - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCTS\PRECINCT 5 DOCUMENTATION\998511CC406.dwg





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 Registration No: BPS 3015
 Categories: B1, C1, C2, C3, C4, C6 & C15
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 Signature: 
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE: 14/07/2021 REF: 20260-5

LEGEND		
Lower_value	Upper_value	Colour
-2.5 to	-1.5 m	[Dark Grey]
-1.5 to	-1.0 m	[Medium-Dark Grey]
-1.0 to	-0.8 m	[Medium Grey]
-0.8 to	-0.6 m	[Light-Medium Grey]
-0.6 to	-0.4 m	[Light Grey]
-0.4 to	-0.2 m	[Very Light Grey]
-0.2 to	0 m	[White]
0 to	0.2 m	[Very Light Grey]
0.2 to	0.4 m	[Light Grey]
0.4 to	0.6 m	[Light-Medium Grey]
0.6 to	0.8 m	[Medium Grey]
0.8 to	1.0 m	[Medium-Dark Grey]
1.0 to	1.5 m	[Dark Grey]
1.5 to	2.5 m	[Black]

CUT / FILL HATCH UPDATED FOR NEW SURVEY




CLIENT:  WINTAN PROPERTY GROUP	ISSUE FOR CONSTRUCTION APPROVAL	PLAN No: 998511/CC406
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 jwpr@jwprince.com.au		FILE No: 998511CC406 SHEET SIZE: A1 ORIGINAL
AZIMUTH: AHD DATUM: MGA ORIGIN:		NEWPARK PRECINCT 5 CUT & FILL PLAN
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AMENDMENT	DES	DRN	CKD	APR	DATE
C	DG	VS	RO	MS	26/09/19
B	DG	NMUM	RO	MS	12/09/19
A	DG	NM	RO	MS	02/09/18

EASEMENT NOTES

- (A) EASEMENT FOR PADMOUNT STATION 2.75m x 5.5m AND VARIABLE.
- (B) RESTRICTION ON THE USE OF LAND IN RELATION TO FIRE RATINGS OF BUILDINGS MEASURED 3m FROM THE SUBSTATION PLINTH.
- (C) RESTRICTION ON THE USE OF LAND IN RELATION TO SWIMMING POOLS MEASURED 5m FROM THE SUBSTATION PLINTH.
- (D) EASEMENT FOR DRAINAGE 1.5m WIDE.

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Signature: 
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 14/07/2021 REF 20260-5



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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

AMENDMENT	DES	DRN	CKD	APR	DATE
C	DG	VS	RO	MS	26/09/19
B	DG	NM/JM	RO	MS	12/09/19
A	DG	NM	RO	MS	02/09/18

EXISTING STORMWATER LINE TO PROPOSED PRECINCT 5 RAINGARDEN. REFER TO JWP PLANS REF 998511CC500-525 FOR DETAILS

PROPOSED PRECINCT 5 GPT REFER TO JWP PLANS REF 998511CC500-525 FOR DETAILS

PROVIDE LOCALISED REVERSE CROSSFALL OF 2.5% IN VERGE ADJACENT TO PIT/UTZ FOR EMERGENCY OVERLAND FLOW PATH

TEMPORARILY BLOCK PIPE FROM PIT 01/22 TO GPT AND PROVIDE TEMPORARY OUTLET TO SEDIMENT BASIN

TEMPORARY SEDIMENT BASIN (REFER TO SHEET 998511CC472 FOR DETAILS)



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Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPB 3015
 Categories: B1, C1, C2, C3, C4, C6 & C15
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REFER TO DRAWING CC408 FOR CONTINUATION

REFER TO DRAWING CC410 FOR CONTINUATION



J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4365 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

CLIENT:  **WINTAN PROPERTY GROUP**

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ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5 ENGINEERING PLAN SHEET 1

PLAN No: 998511/CC407 **C**
 FILE No: 998511CC407
 SHEET SIZE: A1 ORIGINAL

Printed: 26 September, 2019 2:44:52 PM File Name: J:\998511\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\PRECINCT 5 DOCUMENTATION\998511CC407.dwg

EASEMENT NOTES

- (A) EASEMENT FOR PADMOUNT STATION 2.75m x 5.5m AND VARIABLE.
- (B) RESTRICTION ON THE USE OF LAND IN RELATION TO FIRE RATINGS OF BUILDINGS MEASURED 3m FROM THE SUBSTATION PLINTH.
- (C) RESTRICTION ON THE USE OF LAND IN RELATION TO SWIMMING POOLS MEASURED 5m FROM THE SUBSTATION PLINTH.
- (D) EASEMENT FOR DRAINAGE 1.5m WIDE

LDC These plans are referred to in certificate no. **15879** approved by:
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: 6P6 3015
 Categories: B1, C1, C2, C3, C4, C6 & C15
 Land Development Certificates
 www.LDC.com.au

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 14/07/2021 REF 20260-5



WARNING!
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EXISTING STORMWATER LINE TO PROPOSED PRECINCT 5 RAINGARDEN. REFER TO JWP PLANS REF 998511CC500-525 FOR DETAILS

TEMPORARILY BLOCK PIPE FROM PIT 01/22 TO GPT AND PROVIDE TEMPORARY OUTLET TO SEDIMENT BASIN

TEMPORARY SEDIMENT BASIN 1 REFER TO SHEET 3085110G472 FOR DETAILS

PROVIDE LOCALISED REVERSE CROSSFALL OF 2.5% IN VERGE ADJACENT TO PIT 01/22 FOR EMERGENCY OVERLAND FLOW PATH

REGRADE AREA

PROPOSED PRECINCT 5 GPT. REFER TO JWP PLANS REF 998511CC500-525 FOR DETAILS

ROAD D1

ROAD D3

ROAD 100

ROAD D6

ROAD D2

ROAD D4

REFER TO DRAWING CC410 FOR CONTINUATION



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

AZIMUTH:
 AHD
 DATUM:
 MGA
 ORIGIN:

CLIENT:

WINTAN PROPERTY GROUP
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ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 ENGINEERING PLAN
 SHEET 1

PLAN No: **998511/CC407** C
 FILE No: 998511CC407
 SHEET SIZE: A1 ORIGINAL

Plotted: 20 September 2019 2:44:52 PM File Name: J:\998511\CC - Construction Certificate Approval Plans\PK1 - CENTRAL - PRECINCT5\PRECINCT 5 DOCUMENTATION\998511CC407.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
C	DG	YS	RO	MS	26/09/19
B	DG	NM/UM	RO	MS	12/09/19
A	DG	NM	RO	MS	02/09/18

REFER TO DRAWING CC408 FOR CONTINUATION

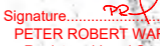
EASEMENT NOTES

(A) EASEMENT FOR PADMOUNT STATION 2.75m x 5.5m AND VARIABLE.
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 (C) RESTRICTION ON THE USE OF LAND IN RELATION TO SWIMMING POOLS MEASURED 5m FROM THE SUBSTATION PLINTH.
 (D) EASEMENT FOR DRAINAGE 1.5m WIDE

NEWPARK PRECINCT 6

RESIDUE LOT 6253

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: 
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE: 14/07/2021 REF: 20260-5



15879
 Christopher Louis Wahbe
 Adjunctive Director
 Registration No: 87630
 Categories: B1-C1-E2-S3-04-05-06-07
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REFER TO DRAWING CC407 FOR CONTINUATION

REFER TO DRAWING CC409 FOR CONTINUATION



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AMENDMENT	DES	DRN	CKD	APR	DATE
D DRIVEWAY LOCATION ON LOT 5151 AMENDED	DG	DG	MP	MS	23/04/20
C ISSUE FOR CONSTRUCTION APPROVAL	DG	VS	RO	MS	26/09/19
B ISSUE FOR CA APPROVAL	DG	NM/IM	RO	MS	12/09/19
A ISSUE FOR CONSTRUCTION APPROVAL	DG	NM	RO	MS	02/09/18

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

CLIENT: **WINTEN PROPERTY GROUP**

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

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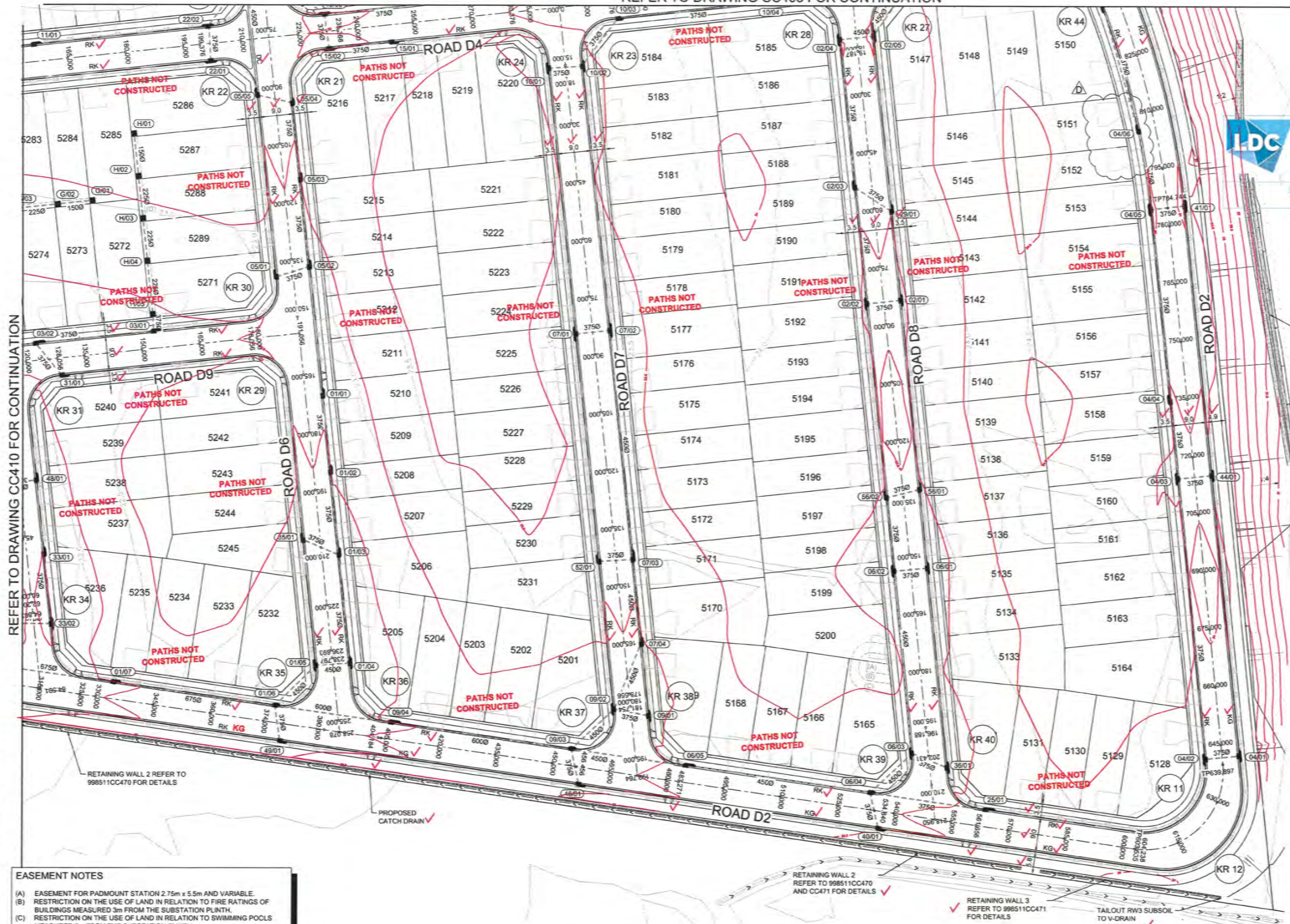
ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 ENGINEERING PLAN
 SHEET 2

PLAN No: **998511/CC408** **D**
 FILE No: 998511CC408
 SHEET SIZE: A1 ORIGINAL

REFER TO DRAWING CC408 FOR CONTINUATION

REFER TO DRAWING CC410 FOR CONTINUATION



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LDC
 Christopher Louis Wahbe
 Accredited Certifier
 Registration No: 819 2012
 Categories: 81, C1, C2, C4, C6 & C15
 Land Development Certificates
 www.LDC.com.au

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 Signature:
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

RETAINING WALL 4 REFER TO 998511CC472 FOR DETAILS

LDC
 Christopher Louis Wahbe
 Accredited Certifier
 Registration No: 819 2012
 Categories: 81, C1, C2, C4, C6 & C15
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- EASEMENT NOTES**
- (A) EASEMENT FOR PADMOUNT STATION 2.75m x 5.5m AND VARIABLE.
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 - (D) EASEMENT FOR DRAINAGE 1.5m WIDE



CLIENT:
WINTEN PROPERTY GROUP

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 DATUM: MGA
 ORIGIN:

ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5 ENGINEERING PLAN SHEET 3

PLAN No: 998511/CC409 **D**
 FILE No: 998511CC409
 SHEET SIZE: A1 ORIGINAL

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AMENDMENT	DES	DRN	CKD	APR	DATE
D DRIVEWAY & DRAINAGE PIT LOCATION AMENDED	DG	DG	MP	MS	23/04/20
C ISSUE FOR CONSTRUCTION APPROVAL	DG	VS	RO	MS	26/09/19
B ISSUE FOR CAA APPROVAL	DG	NM/JM	RO	MS	12/09/19
A ISSUE FOR CONSTRUCTION APPROVAL	DG	NM	RO	MS	02/09/18

REFER TO DRAWING CC407 FOR CONTINUATION



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 Accredited Certifier
 Registration No: BPB 3015
 Categories: B1, C1, C2, C3, C4, C6 & C15
 Land Development Certificates
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Signature:
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

EASEMENT NOTES

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- (D) EASEMENT FOR DRAINAGE 1.5m WIDE



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LITTLE CREEK

AIR SERVICES LAND



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WINTREN PROPERTY GROUP

AZMUTH: AHD
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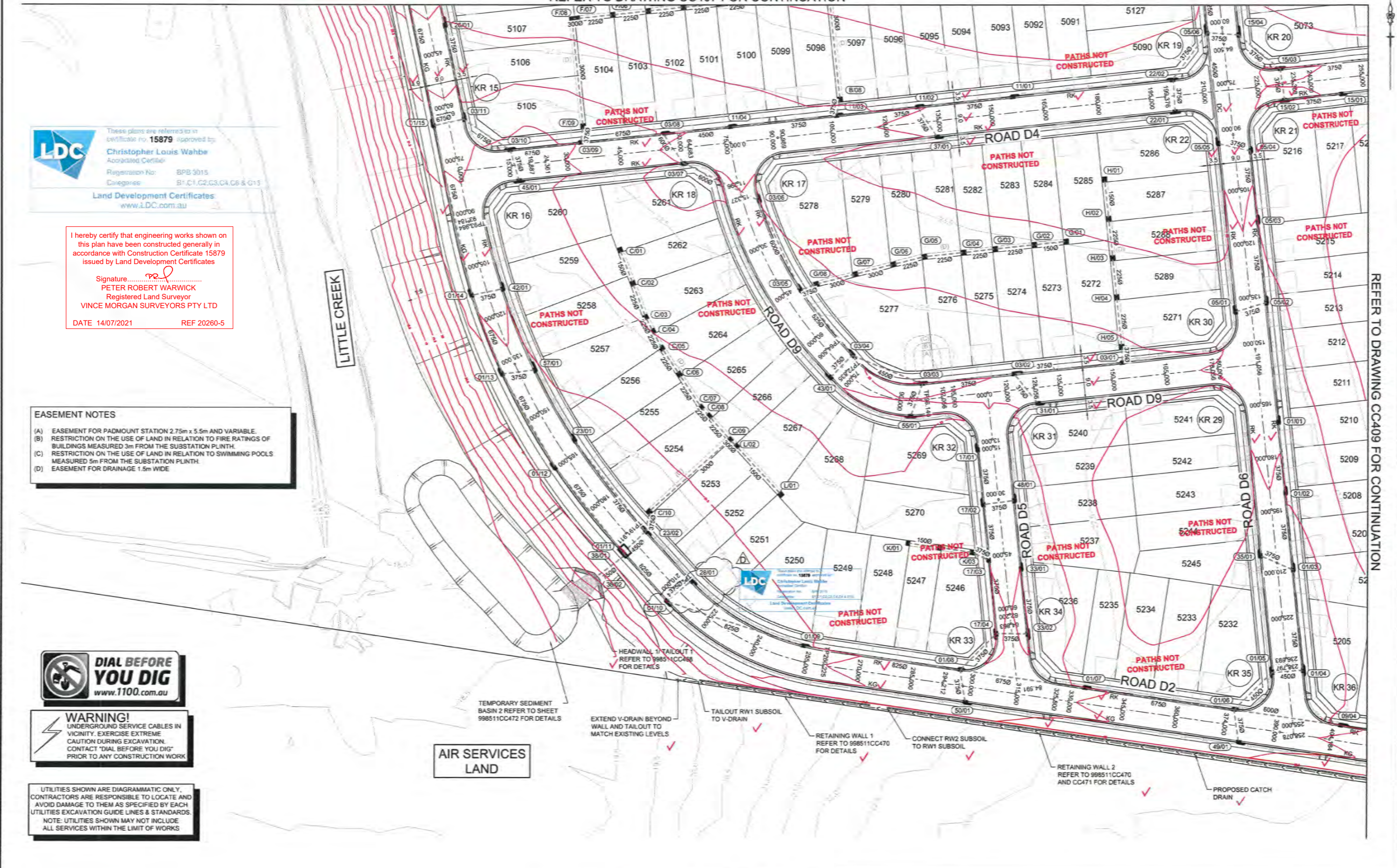
NEWPARK PRECINCT 5
 ENGINEERING PLAN
 SHEET 4

PLAN No: 998511/CC410 **D**
 FILE No: 998511CC410
 SHEET SIZE: A1 ORIGINAL

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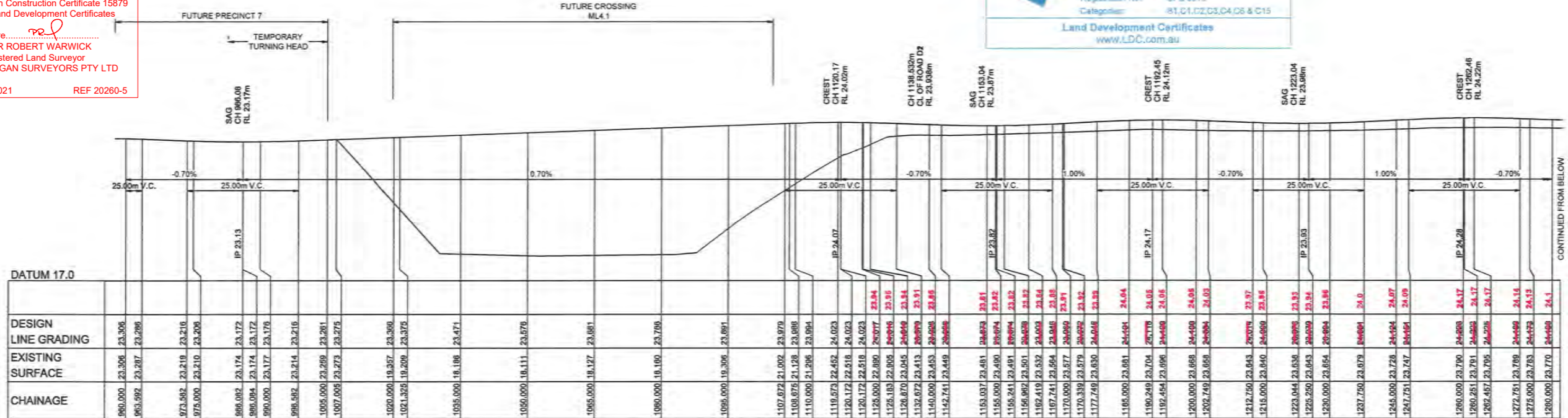
REFER TO DRAWING CC409 FOR CONTINUATION

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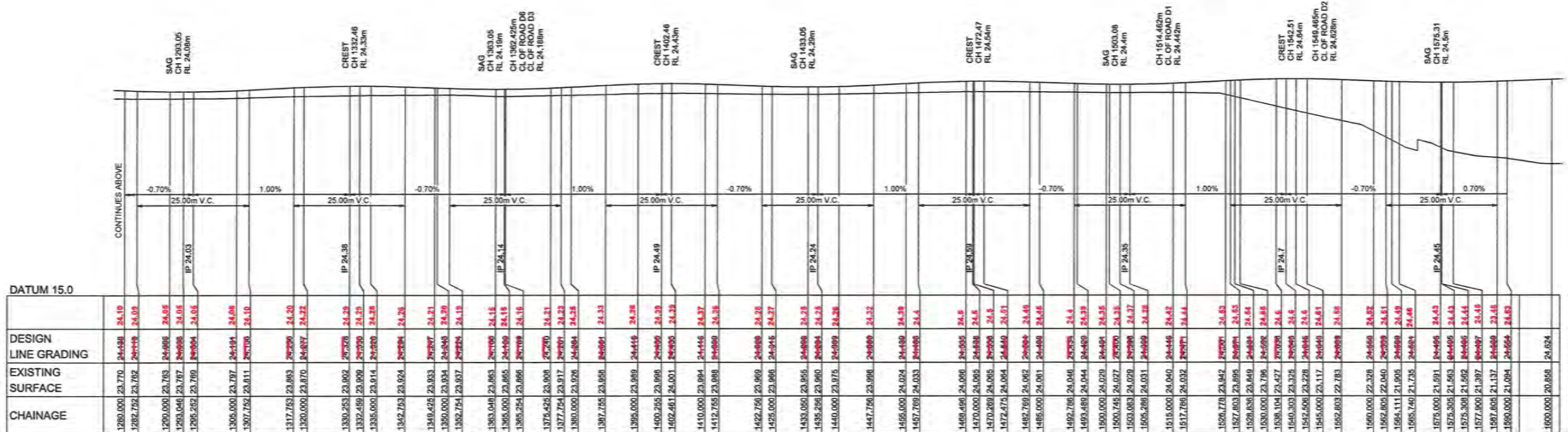
Signature:
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 14/07/2021 REF 20260-5



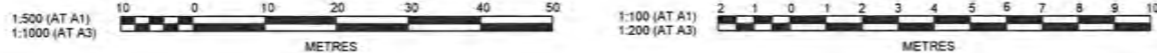
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Accredited Certifier
Registration No: 8PB 3015
Categories: S1, C1, C2, C3, C4, C6 & C15
Land Development Certificates
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LONGITUDINAL SECTION - ABELL ROAD (ROAD 100)
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



LONGITUDINAL SECTION - ABELL ROAD (ROAD 100)
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



CLIENT:

WINTAN PROPERTY GROUP

ASAZMUTH: AHD
DATUM: MGA
ORIGIN: THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
ROAD LONGITUDINAL SECTION
ABELL ROAD

PLAN No: **998511/CC411**
File No: 998511CC411
SHEET SIZE: A1 ORIGINAL


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

Plotted: 26 September, 2019 2:42:32 PM File Name: J:\98511DCC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCTS\PRECINCT 5 DOCUMENTATION\98511CC411.dwg

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B	DG	VS	RO MS	12/09/19
A	DG	NM	RO MS	02/09/18

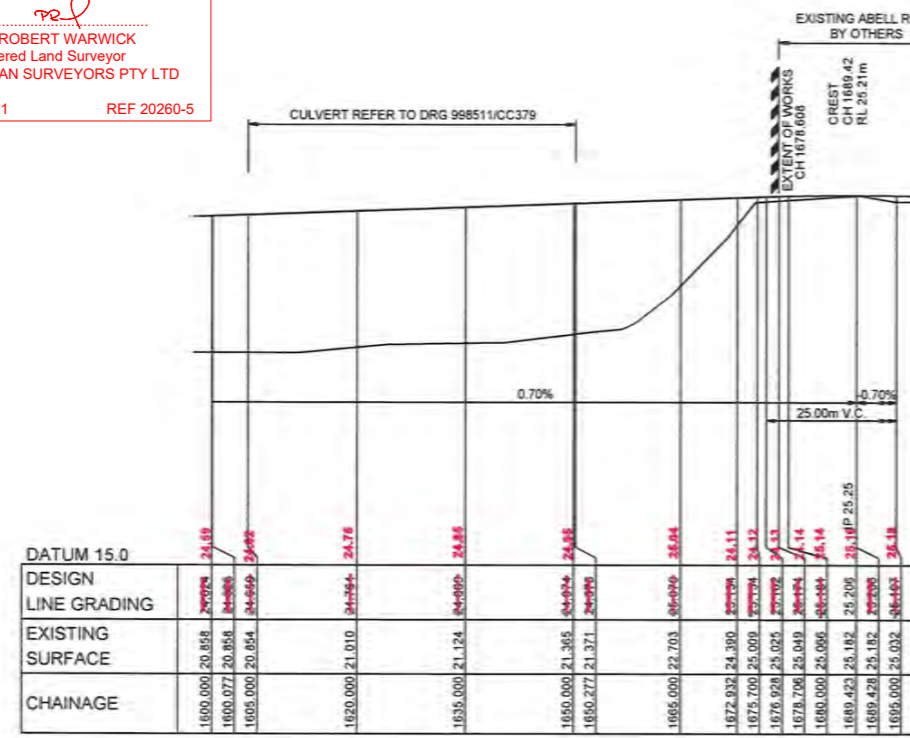
AMENDMENT

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Signature: 
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

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 Accredited Certifier
 Registration No: BPS 2018
 Categories: B1,C1,C2,C3,C4,C6 & C15
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LONGSECTION UPDATED WITH NEW SURVEY



LONGITUDINAL SECTION ABELL ROAD (ROAD 100)
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:100



LONGITUDINAL SECTION - JACKWOOD CRESCENT (ROAD D1)
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:100



LONGITUDINAL SECTION - JACKWOOD CRESCENT (ROAD D1)
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:100



CLIENT: **WINTEN PROPERTY GROUP**

ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 ROAD LONGITUDINAL SECTION
 ROAD D1

PLAN No: **998511/CC412** **C**
 FILE No: 998511CC412
 SHEET SIZE: A1 ORIGINAL


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

AMENDMENT	DES	DRN	CHKD	APR	DATE
C	DG	VS	RO	MS	26/09/19
B	DG	NMUM	RO	MS	12/09/19
A	DG	NM	RO	MS	02/09/18

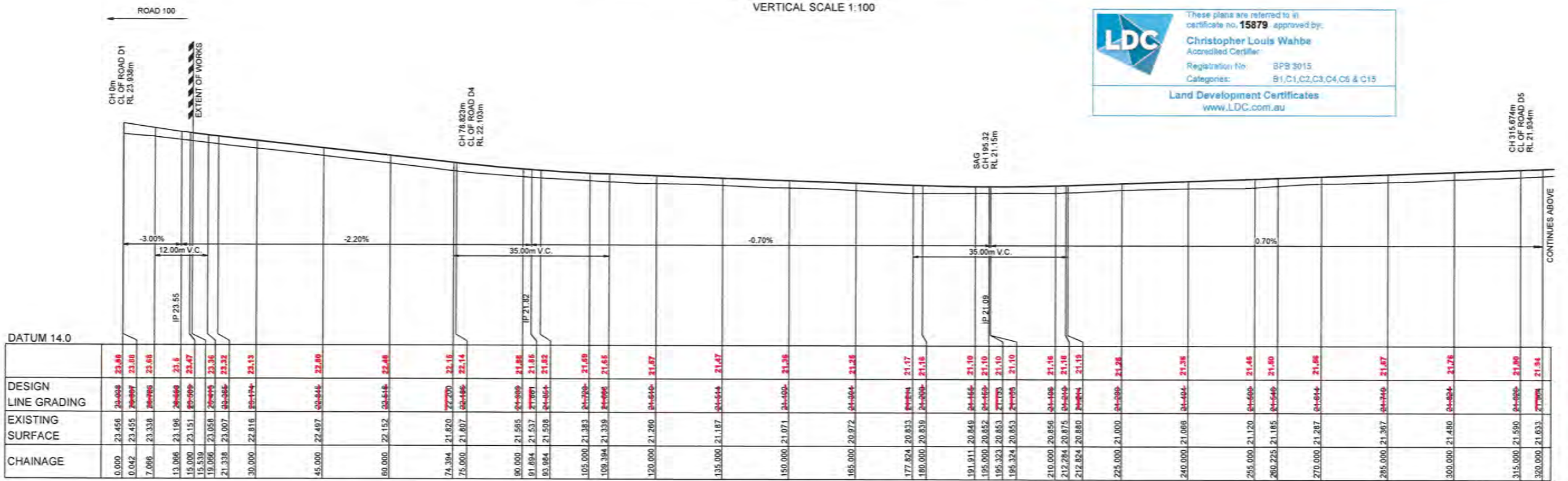
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Signature: 
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

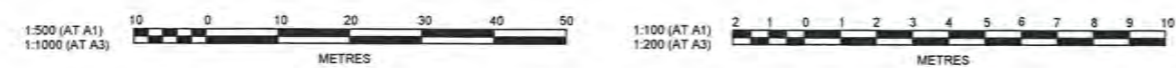


LONGITUDINAL SECTION - MANGROVE CIRCUIT (ROAD D2)
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:100



LONGITUDINAL SECTION - MANGROVE CIRCUIT (ROAD D2)
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:100

LDC
 These plans are referred to in certificate no. **15879** approved by:
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 Accredited Certifier
 Registration No: SPB 3015
 Categories: B1, C1, C2, C3, C4, C5 & C15
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LONGSECTION UPDATED WITH NEW SURVEY

AMENDMENT	DES	DRN	CHKD	APR	DATE	
C	ISSUE FOR CONSTRUCTION APPROVAL	DG	VS	RO	MS	26/09/19
B	ISSUE FOR CAA APPROVAL	DG	NM/M	RO	MS	12/09/19
A	ISSUE FOR CONSTRUCTION APPROVAL	DG	NM	RO	MS	02/05/18


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 jwpr@jwprince.com.au

CLIENT: **WINTEN PROPERTY GROUP**
 AZIMUTH: AHD
 DATUM: MGA
 ORIGIN: THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE

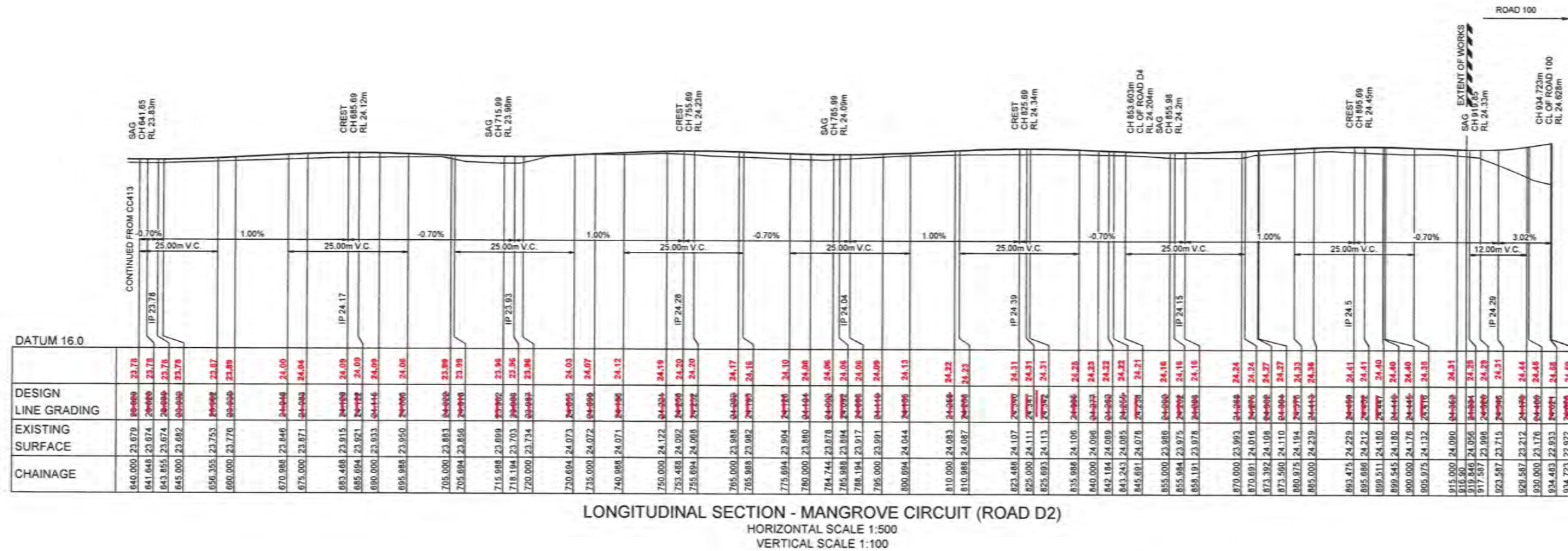
ISSUE FOR CONSTRUCTION APPROVAL
NEWPARK PRECINCT 5
 ROAD LONGITUDINAL SECTION
 ROAD D2 SHEET 1
 PLAN No: **998511/CC413**
 FILE No: 998511CC413
 SHEET SIZE: A1 ORIGINAL

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Signature: 
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 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

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 Accredited Certifier
 Registration No: BPS 3015
 Categories: B1,C1,C2,C3,C4,C6 & C15



LONGITUDINAL SECTION - MANGROVE CIRCUIT (ROAD D2)
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:100



LONGSECTION UPDATED WITH NEW SURVEY

CLIENT: **WINTEN PROPERTY GROUP**

ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 ROAD LONGITUDINAL SECTION
 ROAD D2 SHEET 2

PLAN No: **998511/CC414** **C**
 FILE No: 998511CC414
 SHEET SIZE: A1 ORIGINAL


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

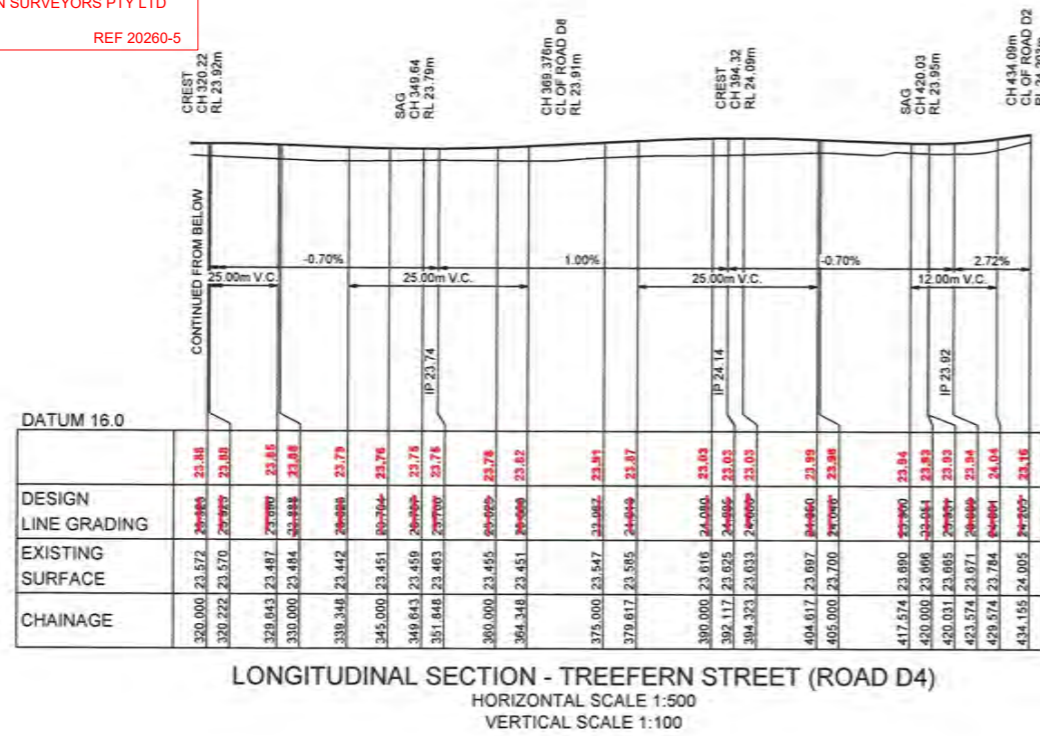
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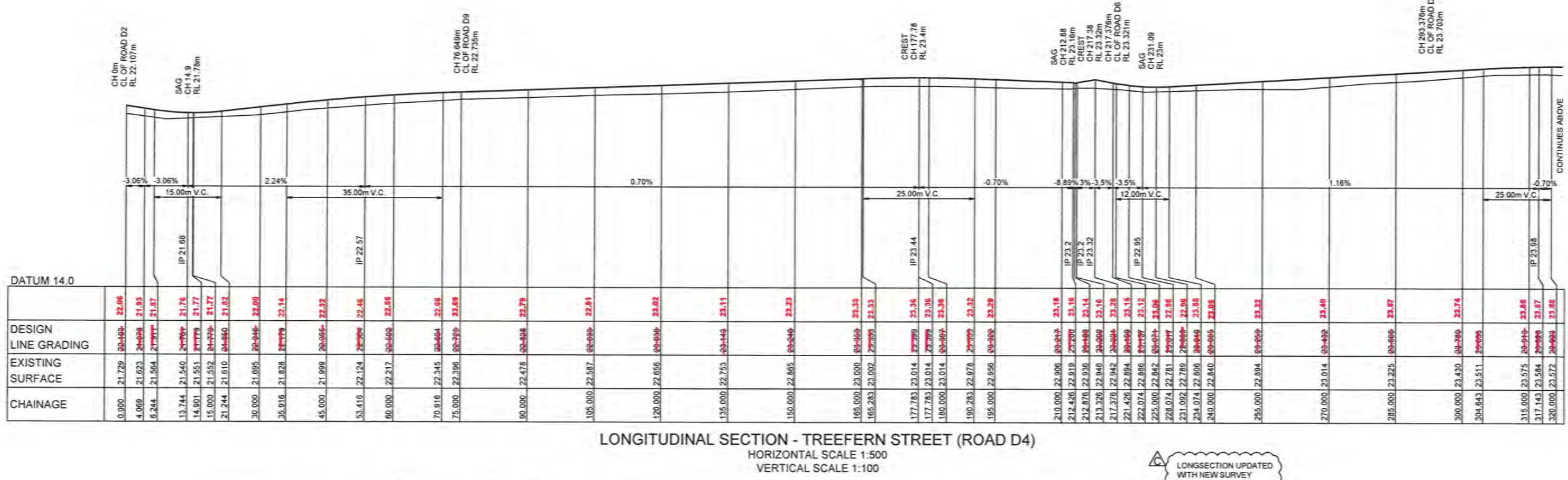
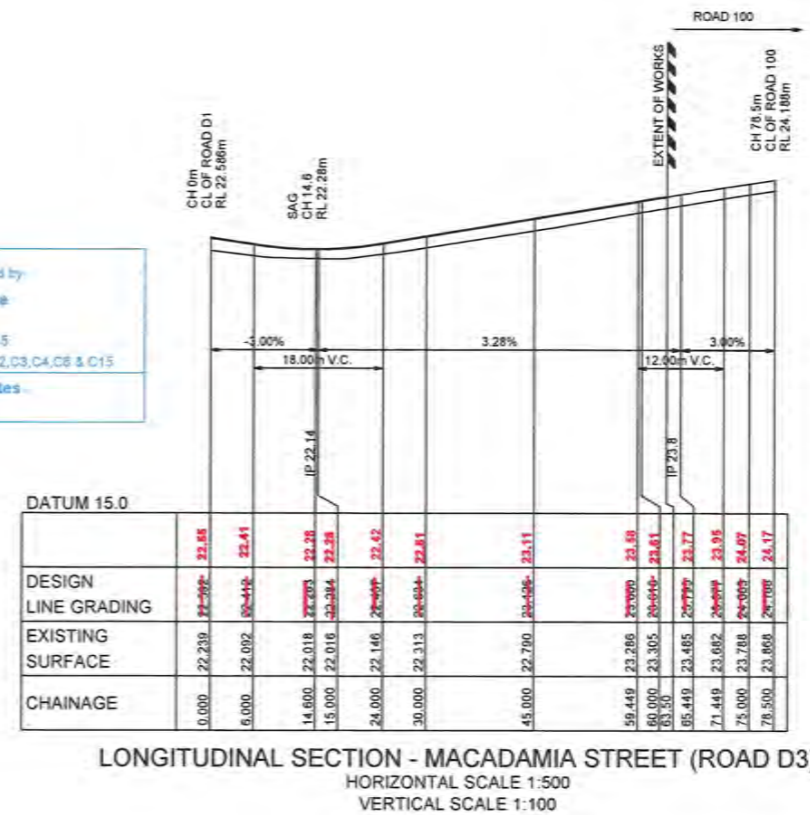
AMENDMENT	DES	DRN	CKD	APR	DATE	
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A	ISSUE FOR CONSTRUCTION APPROVAL	DG	NM	RO	MS	02/09/18

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 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5



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 Accredited Certifier
 Registration No: **BPB 3015**
 Categories: **B1, C1, C2, C3, C4, C8 & C15**
 Land Development Certificates
 www.LDC.com.au



LONGSECTION UPDATED WITH NEW SURVEY

AMENDMENT	DES	DRN	CKD	APR	DATE	
C	ISSUE FOR CONSTRUCTION APPROVAL	DG	VS	RO	MS	26/09/19
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 PO Box 4366 PENRITH WESTFIELD NSW 2750
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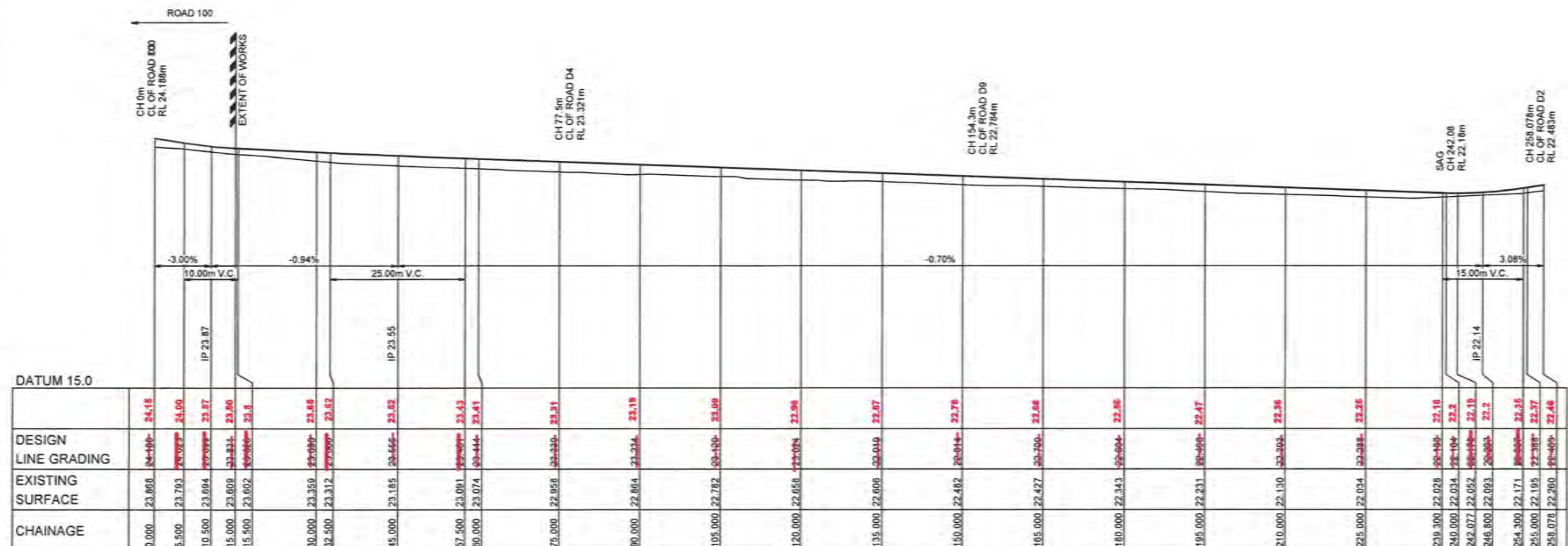
CLIENT: **WINTEN PROPERTY GROUP**
 AZIMUTH: AHD
 DATUM: MGA
 ORIGIN: THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE

ISSUE FOR CONSTRUCTION APPROVAL
NEWPARK PRECINCT 5
ROAD LONGITUDINAL SECTION ROAD D3 & D4

PLAN No: **998511/CC415** **C**
 FILE No: 998511CC415
 SHEET SIZE: **A1 ORIGINAL**

Plotted 26 September, 2019 2:42:37 PM. File Name: J:\998511\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 5 DOCUMENTATION\998511CC415.dwg

Plotted: 26 September, 2019 2:42:58 PM File Name: J:\9885D\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCTS\PRECINCT 5 DOCUMENTATION\988511CC416.dwg



LONGITUDINAL SECTION - SPARROWHAWK STREET (ROAD D6)
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

These plans are referred to in certificate no. **15879** approved by:
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPB 3015
 Categories: B1,C1,C2,C3,C4,C6 & C15
 Land Development Certificates
 www.LDC.com.au

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates
 Signature:
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

LONGSECTION UPDATED WITH NEW SURVEY



LONGITUDINAL SECTION - KAMALA STREET (ROAD D5)
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



LONGITUDINAL SECTION - WOODRUFF STREET (ROAD D7)
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



AMENDMENT	DES	DRN	CKD	APR	DATE
C	DG	VS	RO	MS	26/09/19
B	DG	NM/IM	RO	MS	12/09/19
A	DG	NM	RO	MS	02/09/18


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

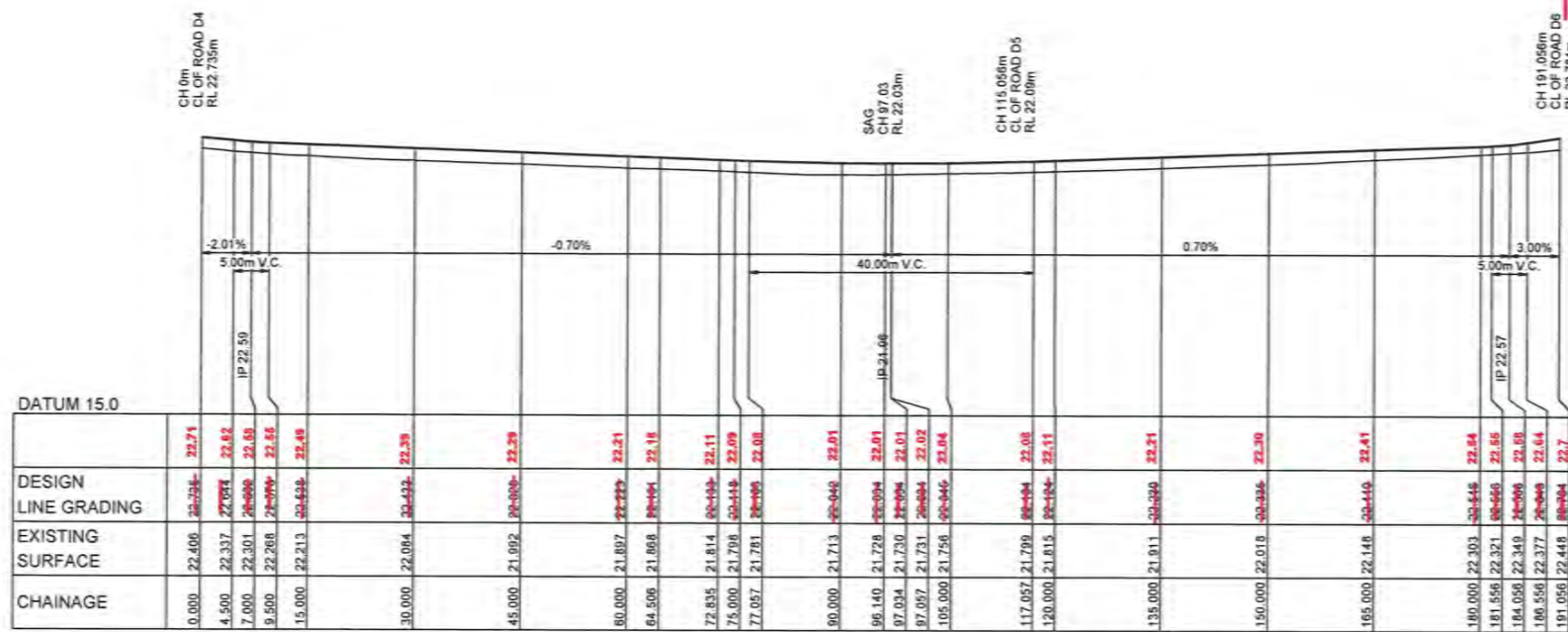
AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

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

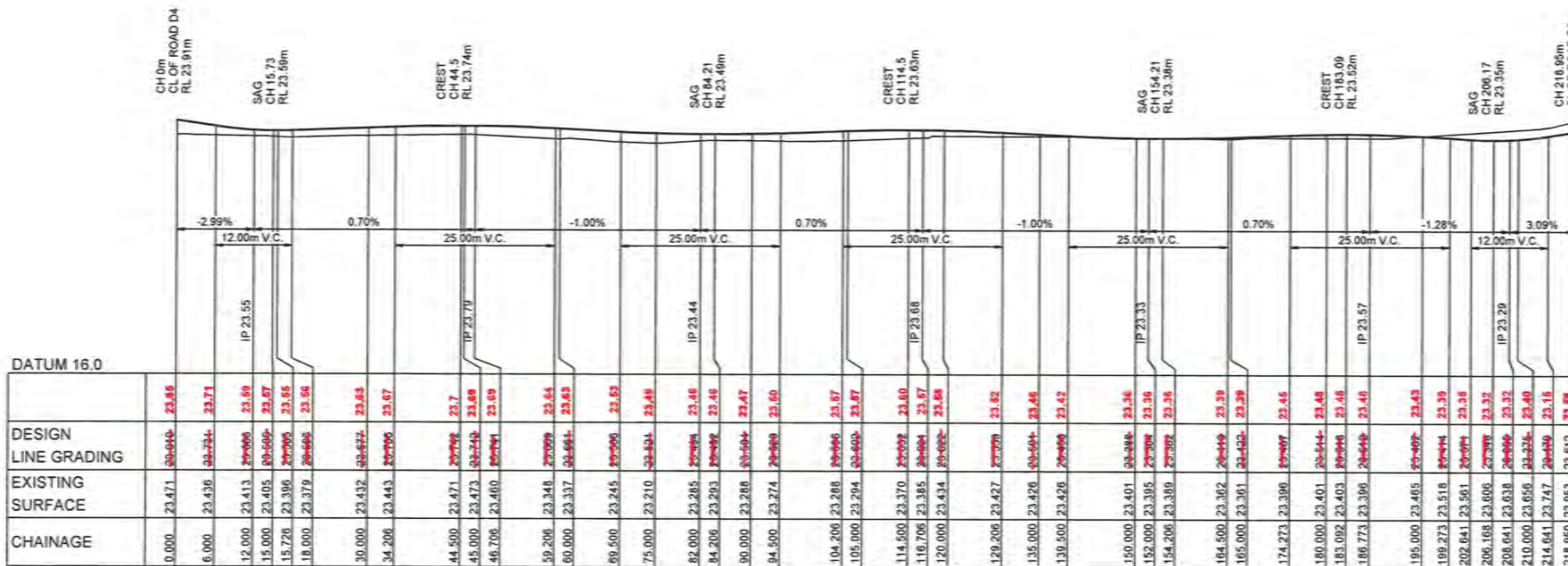
CLIENT:
WINTAN PROPERTY GROUP
ISSUE FOR CONSTRUCTION APPROVAL
 NEWPARK PRECINCT 5
 ROAD LONGITUDINAL SECTION
 ROAD D5, D6 & D7
 PLAN No: 998511/CC416 **C**
 FILE No: 998511CC416
 SHEET SIZE: A1 ORIGINAL

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: 
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5



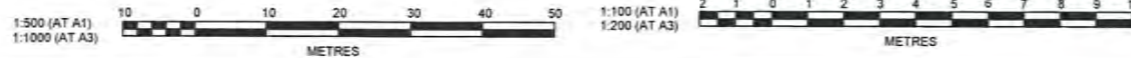
LONGITUDINAL SECTION - BOONGALA CRESCENT (ROAD D9)
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:100



LONGITUDINAL SECTION - SUPPLEJACK STREET (ROAD D8)
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:100

These plans are referred to in certificate no. **15879** approved by:
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPS 3015
 Categories: B1, C1, C2, C3, C4, D8 & C15
 Land Development Certificates
 www.LDC.com.au

LONGSECTION UPDATED WITH NEW SURVEY



CLIENT:

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

ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 ROAD LONGITUDINAL SECTION
 ROAD D8 & D9


PLAN No: 998511/CC417 **C**
 FILE No: 998511CC417
 SHEET SIZE: A1 ORIGINAL

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
 P O Box 4365 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwpr@jwprince.com.au

DES	DRN	CHKD	APPR	DATE
	VS	RO	MS	26/09/19
	NM/JM	RO	MS	12/09/19
	NM	RO	MS	02/09/19

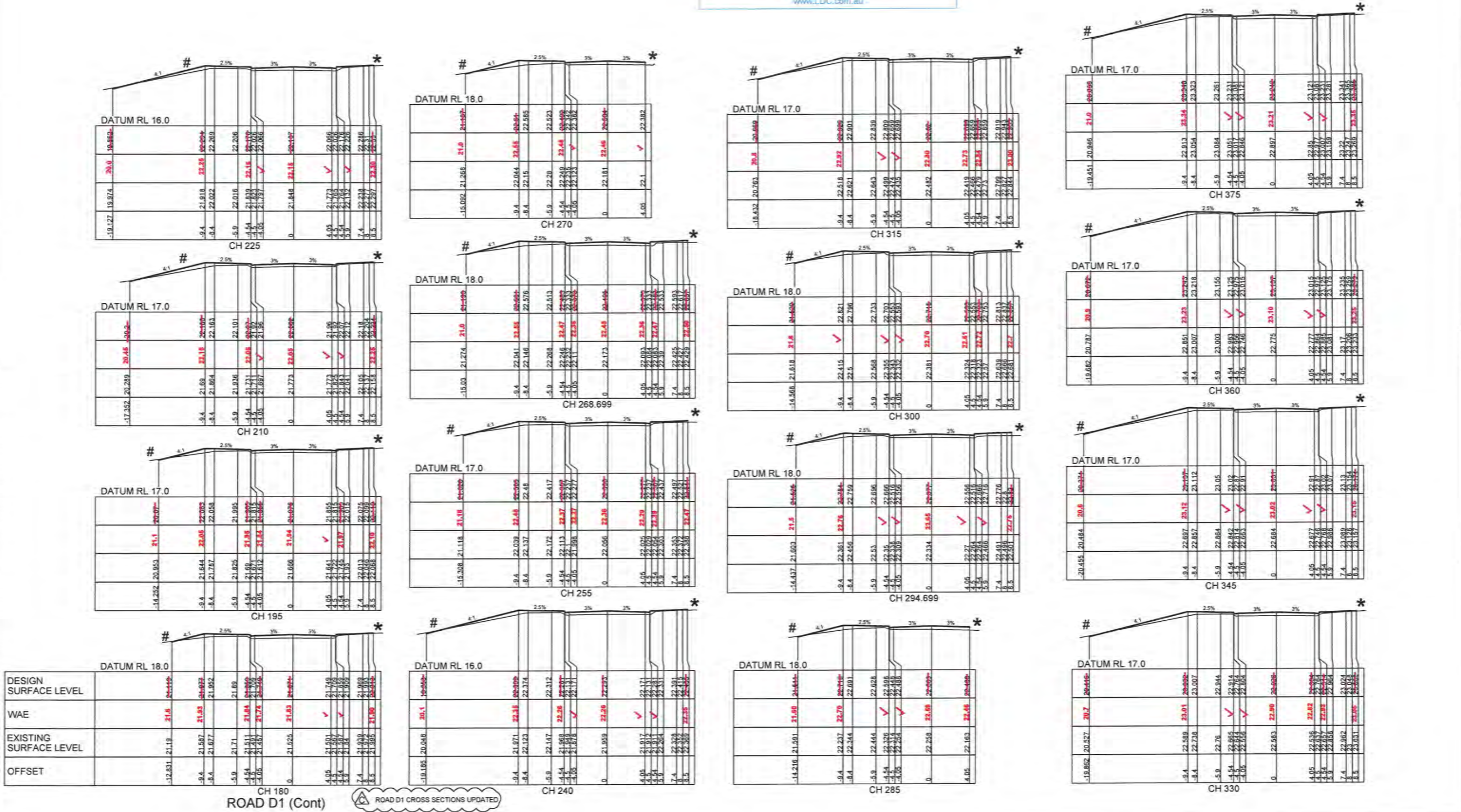
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I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: 
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

LDC
 These plans are referred to in certificate no. **15879** approved by:
 Christopher Louis Wahbe
 Accredited Controller
 Registration No: RPP 3041
 Categories: B1, C1, C2, C3, C4, C6 & C15
 Land Development Certificates
 www.LDC.com.au

NOTE:
 * FOR LOT GRADING REFER TO PLAN CC407 TO CC410
 # DENOTES RESERVE



C	ISSUE FOR CONSTRUCTION APPROVAL	DC	VS	RO	MS	26/09/19
B	ISSUE FOR CA APPROVAL	DC	NM	RO	MS	12/09/19
A	ISSUE FOR CONSTRUCTION APPROVAL	DC	NM	RO	MS	02/09/19
	AMENDMENT	DES	ORN	CKD	APR	DATE


J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4728 2000 W www.jwyndhamprince.com.au E jwyndham@jwyndhamprince.com.au

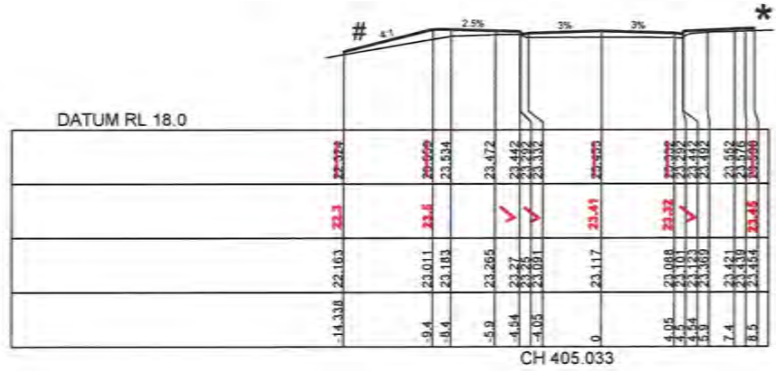
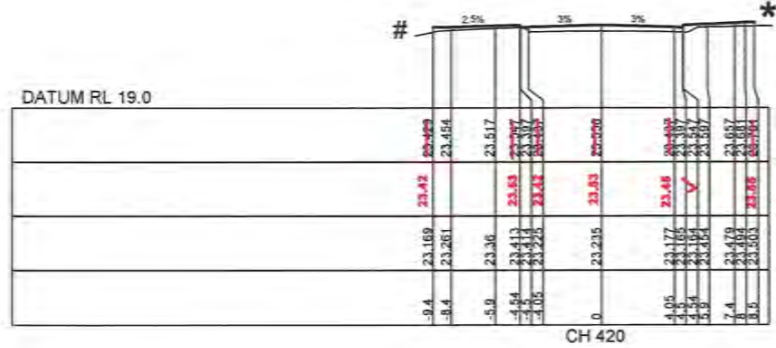
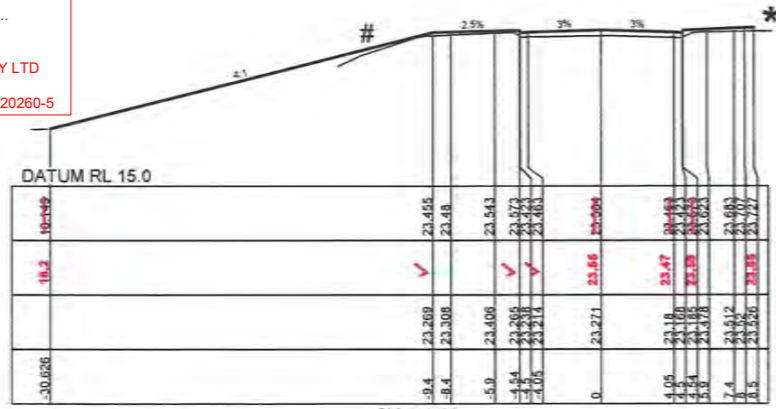
AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

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

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

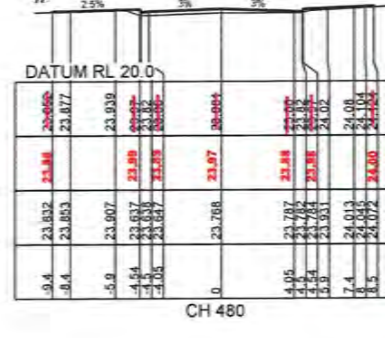
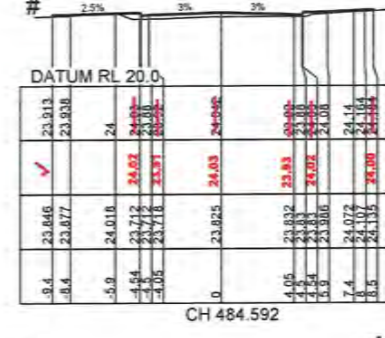
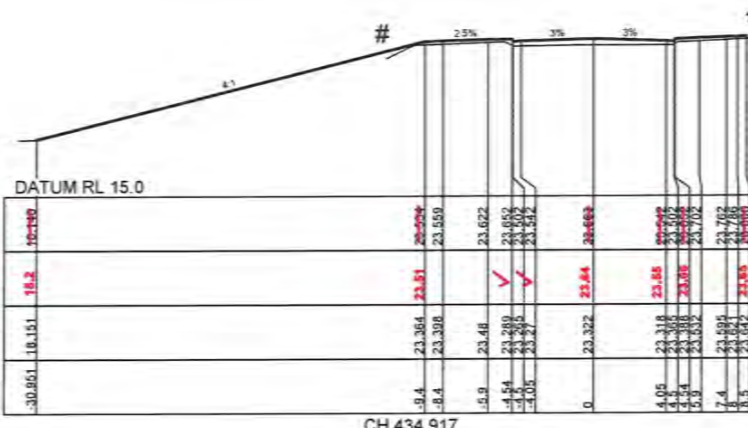
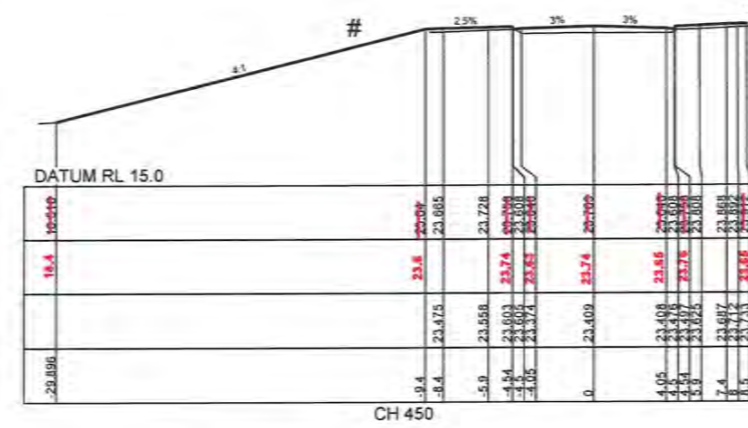
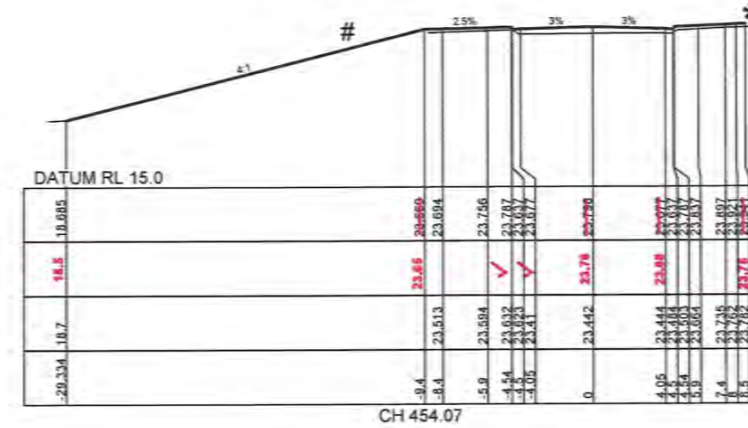
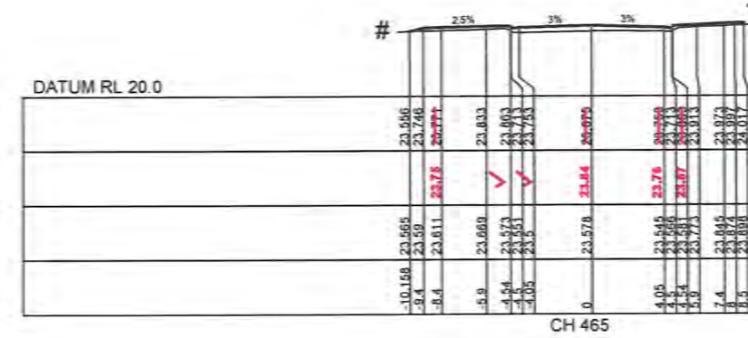
Signature: 
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

NOTE:
 * FOR LOT GRADING REFER TO PLAN CC407 TO CC410
 # DENOTES RESERVE



	DATUM RL 17.0										
DESIGN SURFACE LEVEL	-19.407	21.029	20.9	20.929							
WAE			✓								
EXISTING SURFACE LEVEL	23.023	23.191	23.454	23.429	23.306	23.228	23.146	23.064	22.978	22.888	22.792
OFFSET	-9.4	-8.4	-5.9	-4.5	0	4.05	4.5	5.9	7.4	8.5	

ROAD D1 (Cont) ROAD D1 CROSS SECTIONS UPDATED



LDC
 These plans are referred to in certificate no. 15879 approval by
Christopher Louis Wahba
 Accredited Certifier
 Registration No: RPB 9015
 Categories: B1, C1, C2, C3, C4, C5 & C15
 Land Development Certificates
 www.LDC.com.au



CLIENT:

WINTEN PROPERTY GROUP
 AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:
 THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK
 PRECINCT 5
 ROAD CROSS SECTIONS
 ROAD D1 SHEET 3

PLAN No: 998511/CC419A **C**
 FILE No: 998511CC419A
 SHEET SIZE: A1 ORIGINAL

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

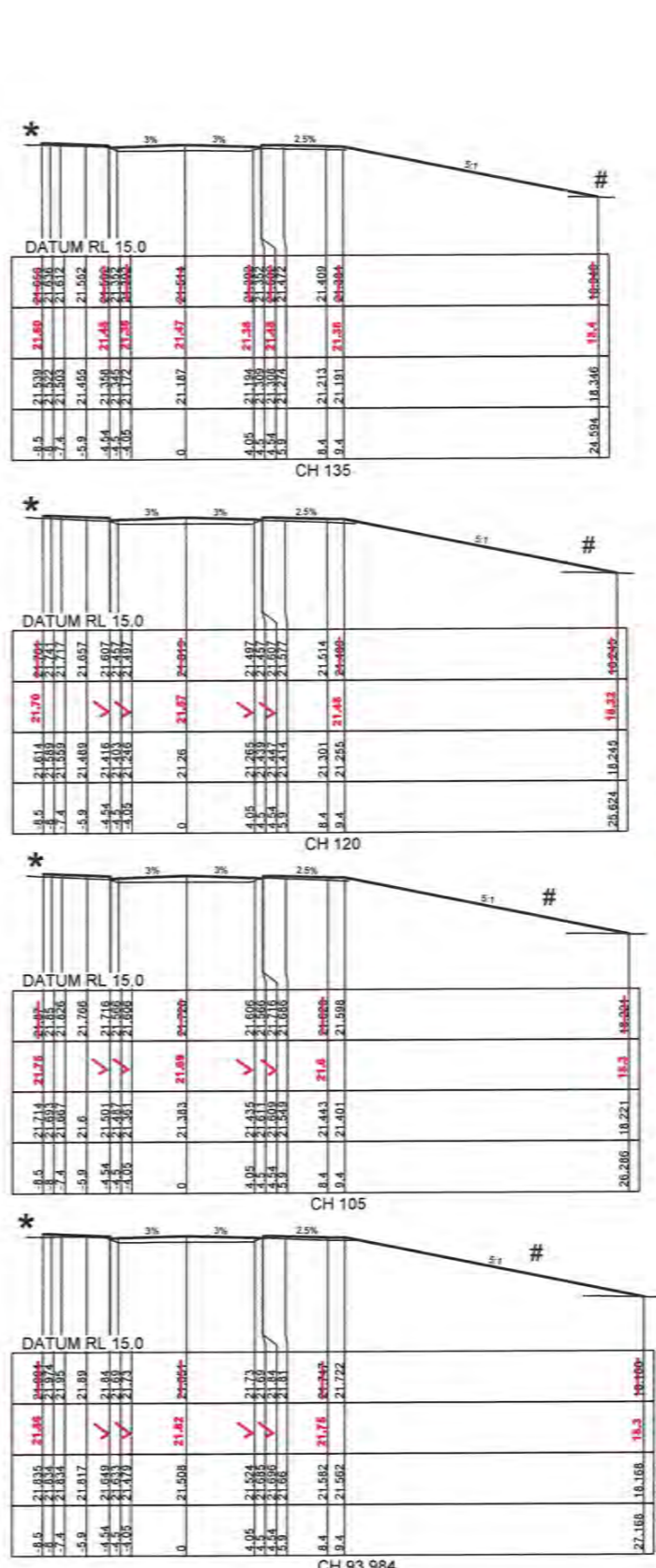
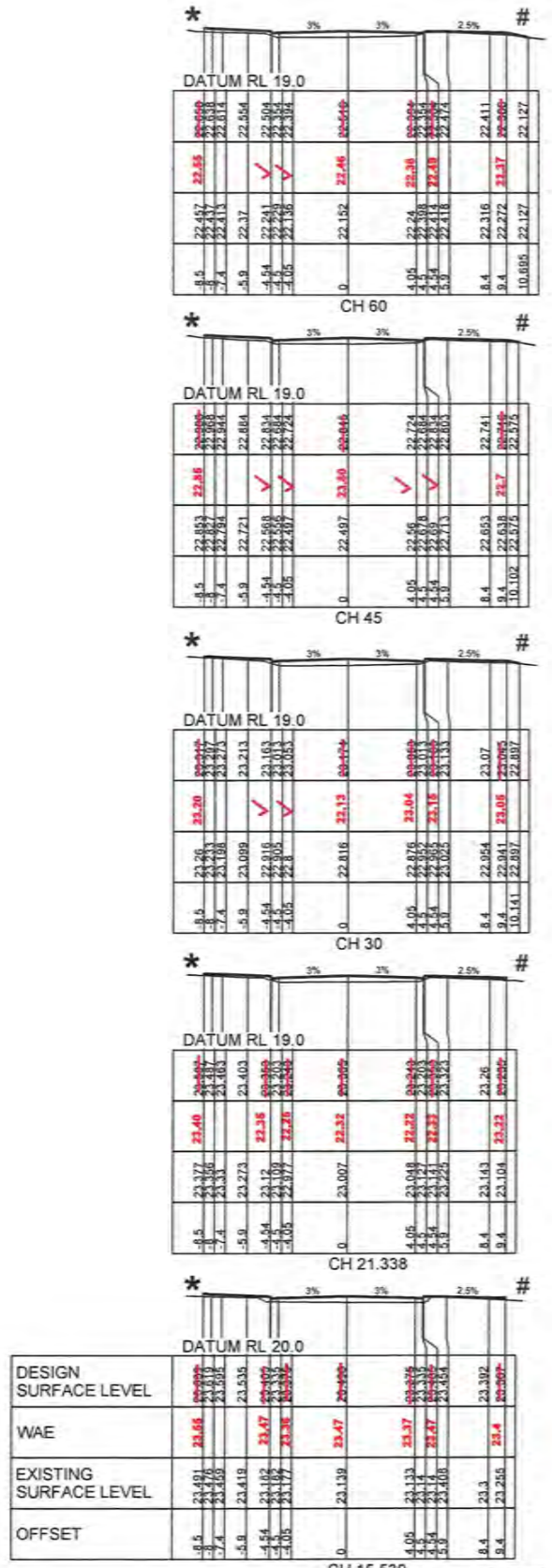
70 Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3306 W www.jwprince.com.au E jw@jwprince.com.au

Plotted: 26 September, 2019 2:43:53 PM File Name: J:\998511\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SP\PRECINCT 5 DOCUMENTATION\998511CC419A.dwg

DES	DRN	CKD	APR	DATE
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B	MMUM	RO	MS	12/09/19
A	KM	RO	MS	02/09/19

Plotted: 26 September 2019 2:43:29 PM File Name: J:\998511\CC420 - Construction Certificate Approval Plans\PK11 - CENTRAL - PRECINCT 5\PRECINCT 5 DOCUMENTATION\998511CC420.dwg

NOTE:
 * FOR LOT GRADING REFER TO PLAN CC407 TO CC410
 # DENOTES RESERVE



ROAD D2 CROSS SECTIONS UPDATED

ROAD D2



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: *[Signature]*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 14/07/2021 REF 20260-5

LDC Land Development Certificates
 www.LDC.com.au

These plans are referred to in certificate no. **15879** approved by Christopher Louis Wahbs Accredited Certifier
 Registration No: BPE 3015
 Categories: B1,C1,C2,C3,C4,C6 & C15

AMENDMENT	DES	DRN	CKD	APR	DATE
C	DG	VS	RO	MS	28/09/19
B	DG	NM	RO	MS	12/09/19
A	NM	MS	MS	MS	02/09/19

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
 P D2 4720 3300 W www.jwprince.com.au

CLIENT: **WINTEN PROPERTY GROUP**

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

ISSUE FOR CONSTRUCTION APPROVAL

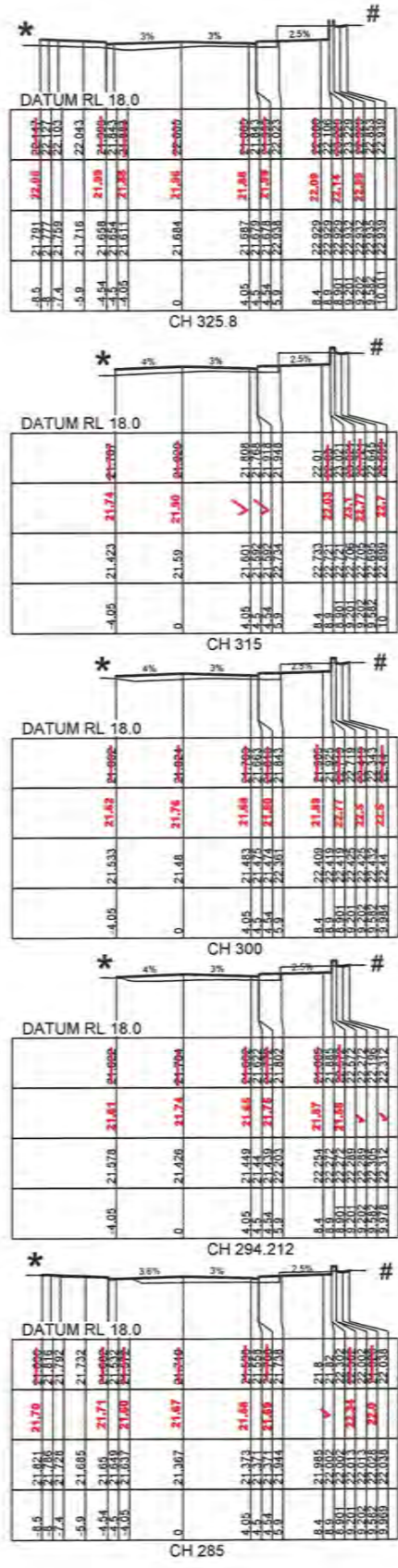
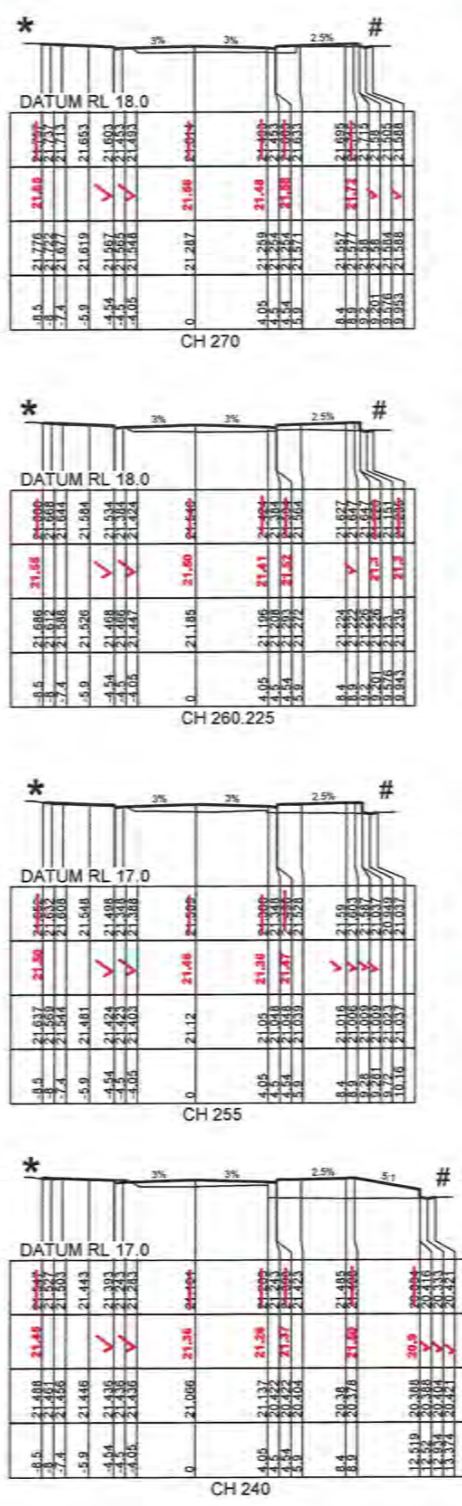
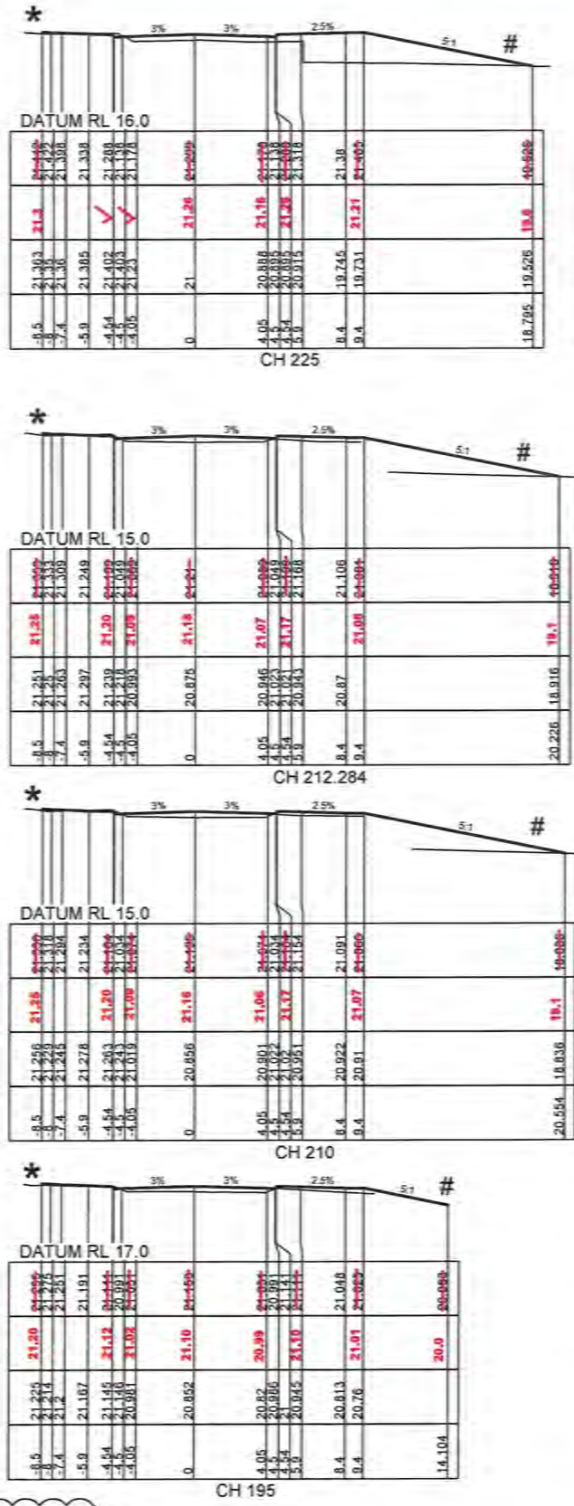
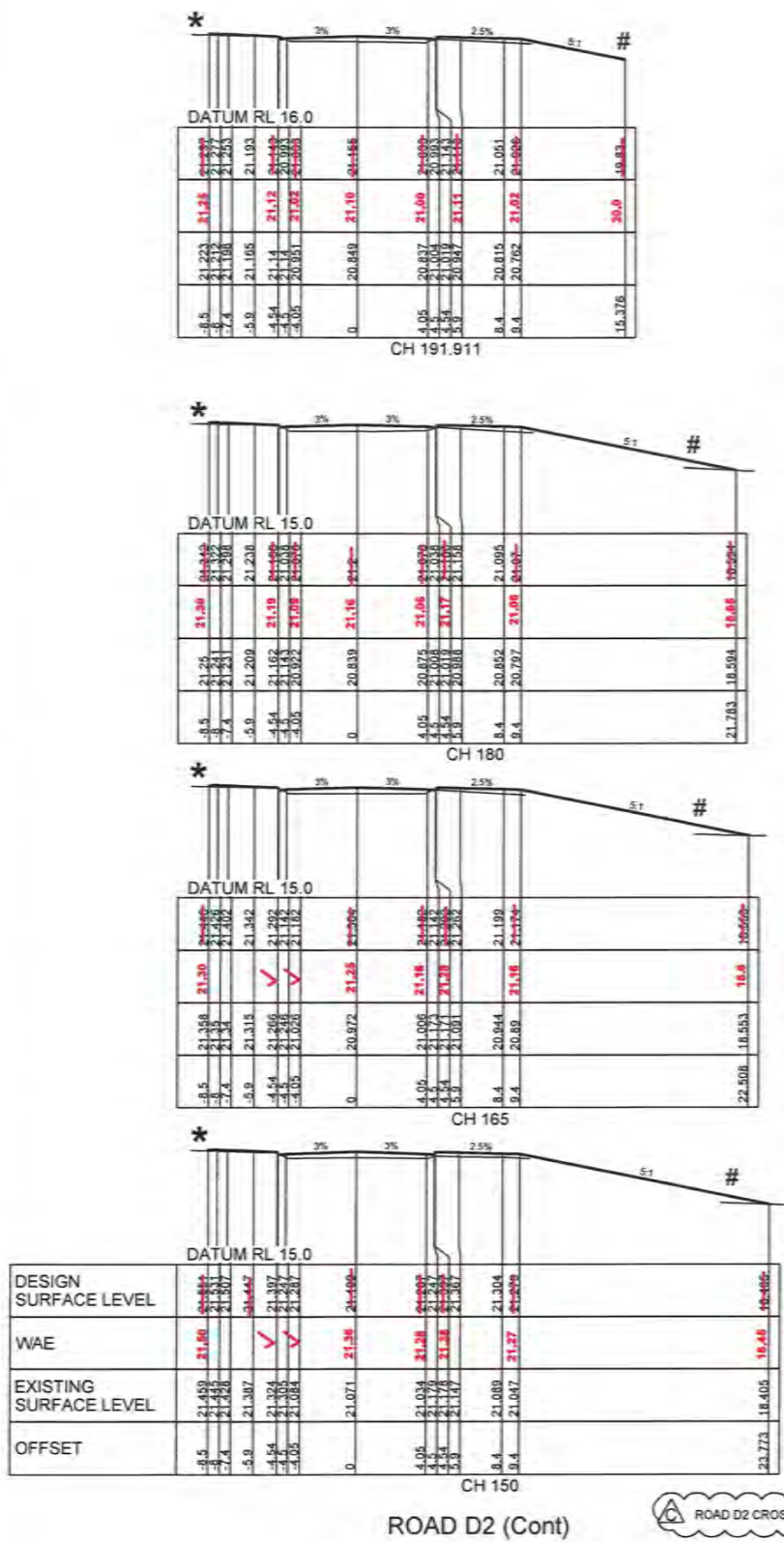
NEWPARK PRECINCT 5 ROAD CROSS SECTIONS ROAD D2 SHEET 1

PLAN No: 998511/CC420 **C**
 FILE No: 998511CC420
 SHEET SIZE: A1 ORIGINAL

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

Plotted: 26 September, 2019 2:44:01 PM File Name: J:\998511\CC421 - Construction Certificate Approval\Plans\PK11 - CENTRAL - PRECINCT\SP\RECHNCT 5 DOCUMENTATION\998511CC421.dwg


 These plans are referred to as certificate no. **15879** approved by:
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: SPB 3015
 Categories: B1, C1, C2, C3, C4, C5 & C7-5
Land Development Certificates
 www.LDC.com.au



NOTE:
 * FOR LOT GRADING REFER TO PLAN CC407 TO CC410
 # DENOTES RESERVE

DESIGN SURFACE LEVEL	WAE	EXISTING SURFACE LEVEL	OFFSET
21.447	21.60	21.149	-0.5
21.447	21.60	21.149	-7.4
21.447	21.60	21.149	-5.9
21.447	21.60	21.149	-4.4
21.447	21.60	21.149	-3.0
21.447	21.60	21.149	0
21.447	21.60	21.149	4.0
21.447	21.60	21.149	5.9
21.447	21.60	21.149	8.4
21.447	21.60	21.149	9.4
21.447	21.60	21.149	14.104



J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

CLIENT: **WINTEN PROPERTY GROUP**

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

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

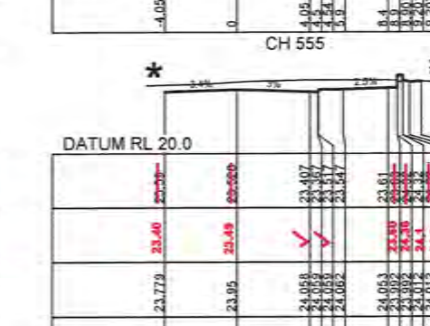
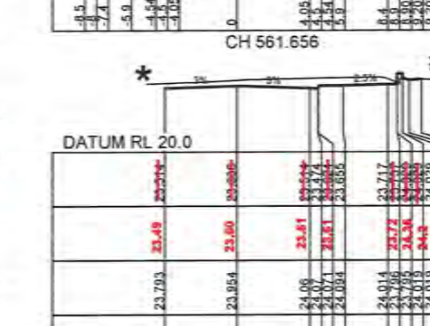
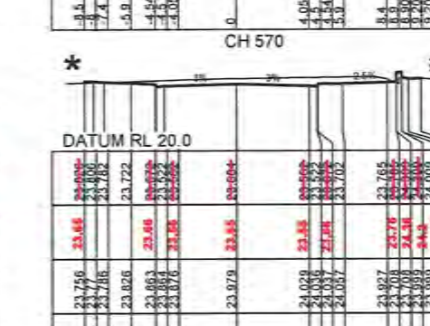
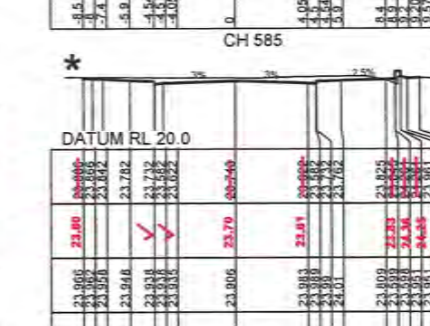
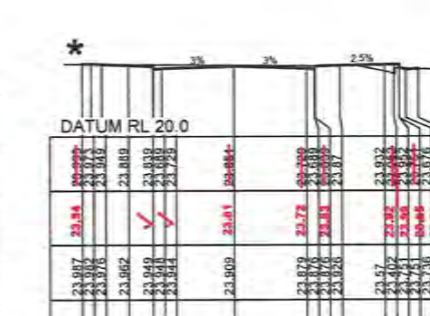
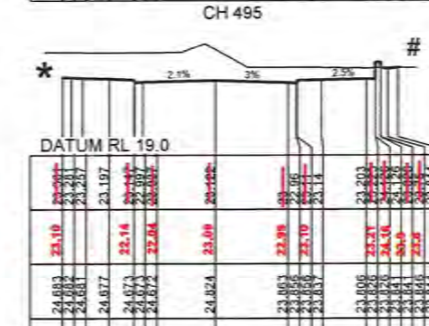
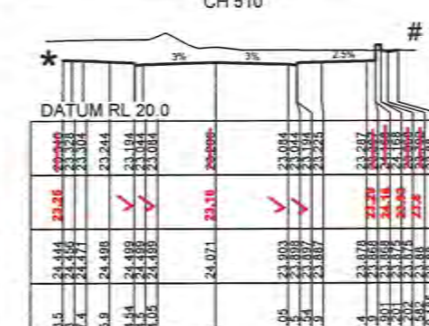
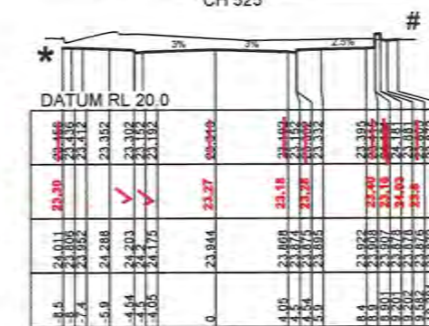
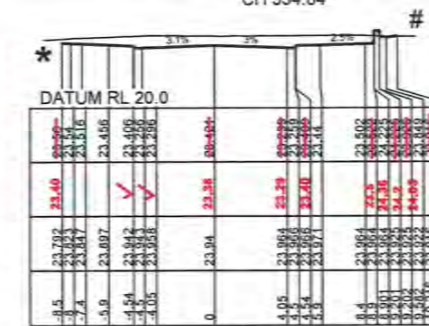
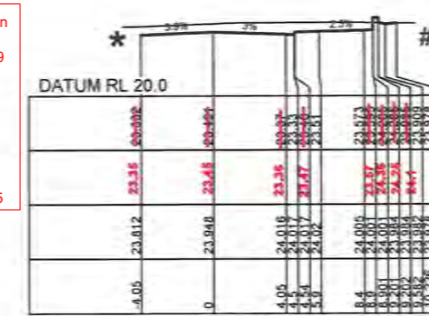
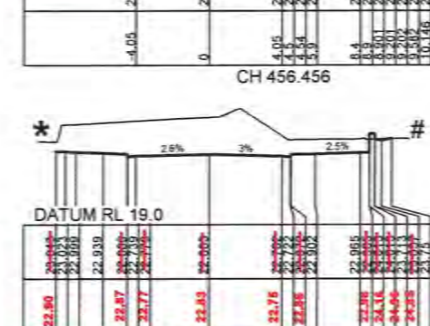
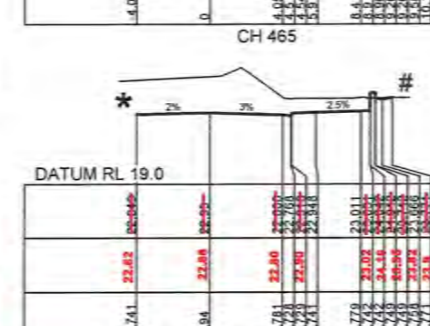
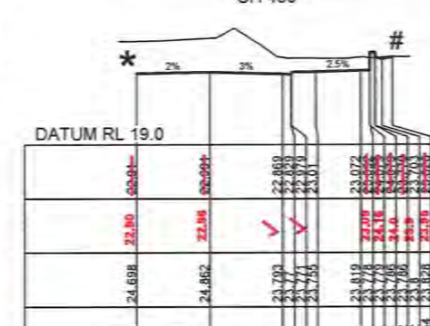
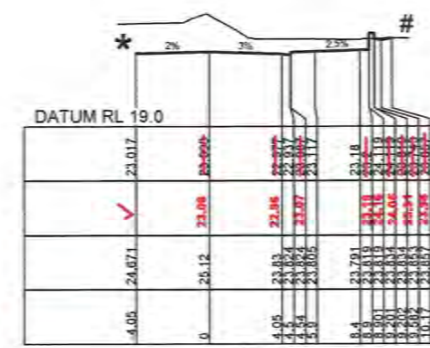
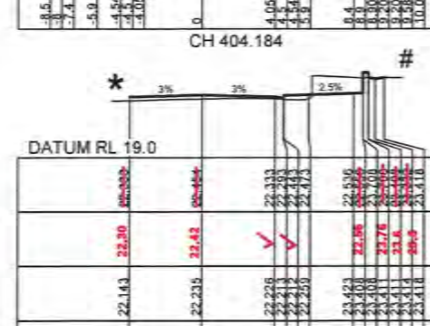
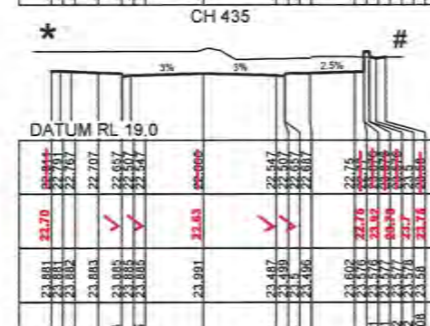
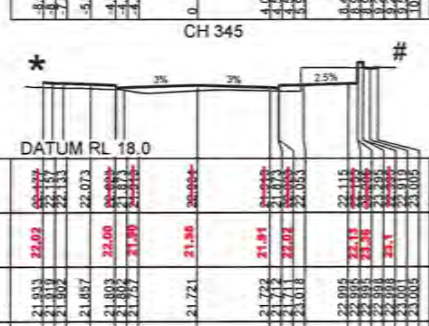
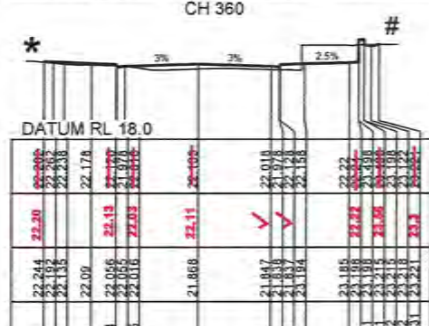
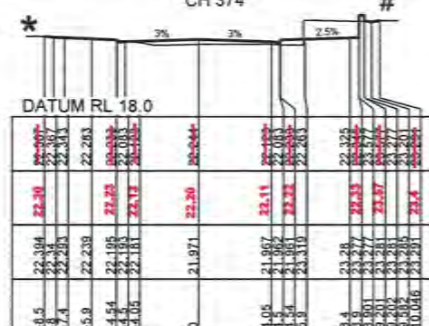
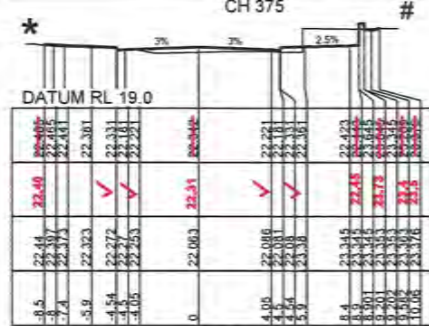
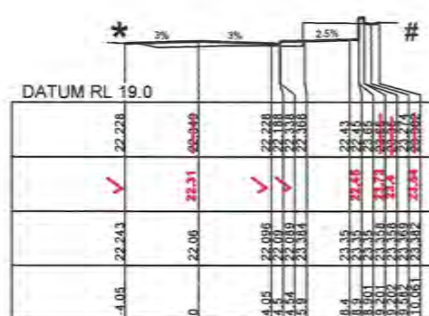
ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 ROAD CROSS SECTIONS
 ROAD D2 SHEET 2

PLAN No:	998511/CC421	C
FILE No:	998511CC421	
SHEET SIZE:	A1 ORIGINAL	

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: 
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE: 14/07/2021 REF 20260-5



DESIGN SURFACE LEVEL	WAE	EXISTING SURFACE LEVEL	OFFSET
22.50	22.03	21.931	-0.5
22.40	21.93	21.830	-0.4
22.30	21.857	21.752	-0.5
22.20	21.803	21.680	-0.5
22.10	21.750	21.610	-0.5
22.00	21.721	21.550	-0.5
21.90	21.722	21.550	0.0
21.80	21.722	21.550	0.0
21.70	21.722	21.550	0.0
21.60	21.722	21.550	0.0
21.50	21.722	21.550	0.0
21.40	21.722	21.550	0.0
21.30	21.722	21.550	0.0
21.20	21.722	21.550	0.0
21.10	21.722	21.550	0.0
21.00	21.722	21.550	0.0
20.90	21.722	21.550	0.0
20.80	21.722	21.550	0.0
20.70	21.722	21.550	0.0
20.60	21.722	21.550	0.0
20.50	21.722	21.550	0.0
20.40	21.722	21.550	0.0
20.30	21.722	21.550	0.0
20.20	21.722	21.550	0.0
20.10	21.722	21.550	0.0
20.00	21.722	21.550	0.0

ROAD D2 (Cont) ROAD D2 CROSS SECTIONS UPDATED

These plans are referred to in certificate no. 15879 approved by:
 Christopher Louis Wahbe
 Associate Director
 Registration No: 679 3015
 Categories: E1/1 C/2/1/1/4/2 & C/4
 Land Development Certificates
 www.LDC.com.au

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates
 Signature: PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5



J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
 PO Box 4066 PENRITH WESTERN NSW 2150
 P 02 4736 1300 W www.jwyndhamprince.com.au E info@jwyndhamprince.com.au

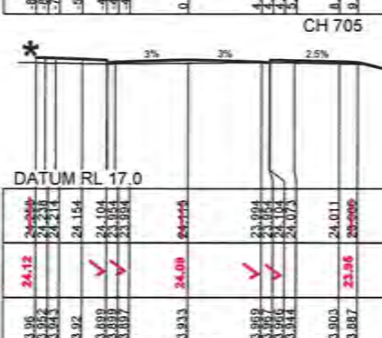
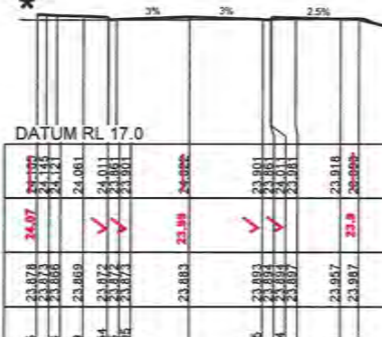
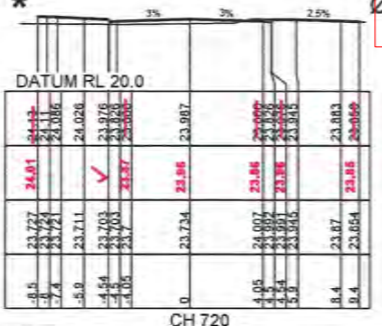
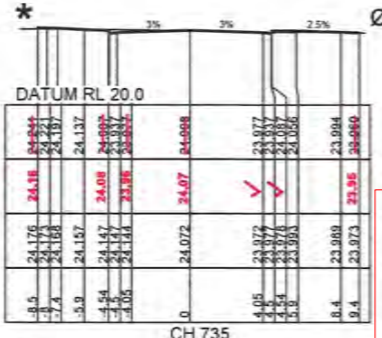
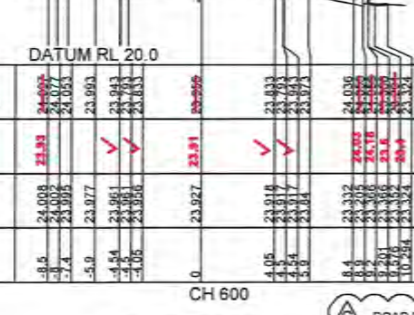
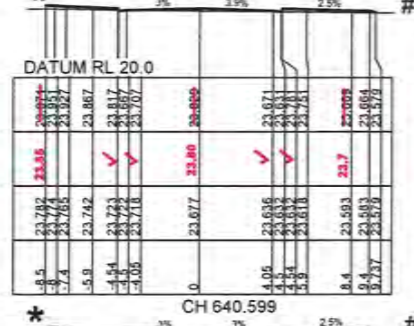
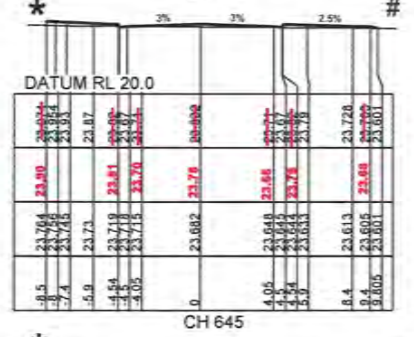
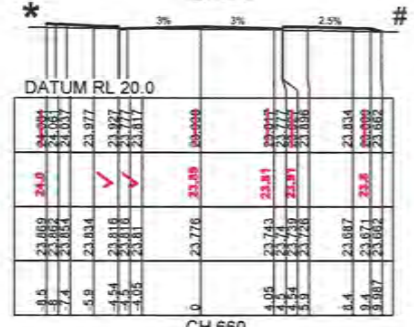
CLIENT: WINTEN PROPERTY GROUP
 AZIMUTH: AHD
 DATUM: MGA
 ORIGIN: THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE

ISSUE FOR CONSTRUCTION APPROVAL

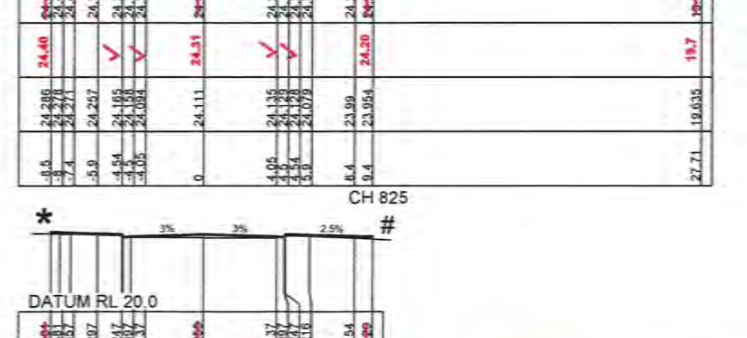
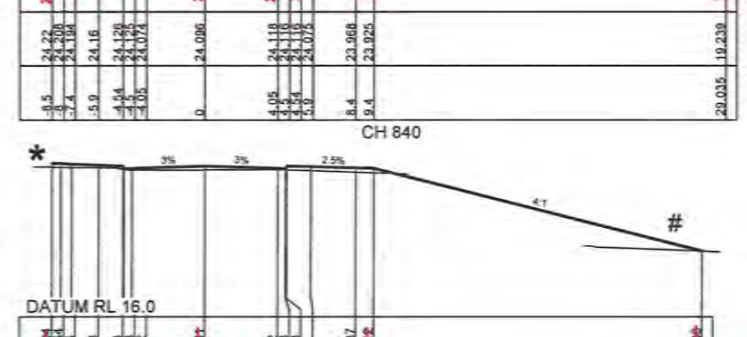
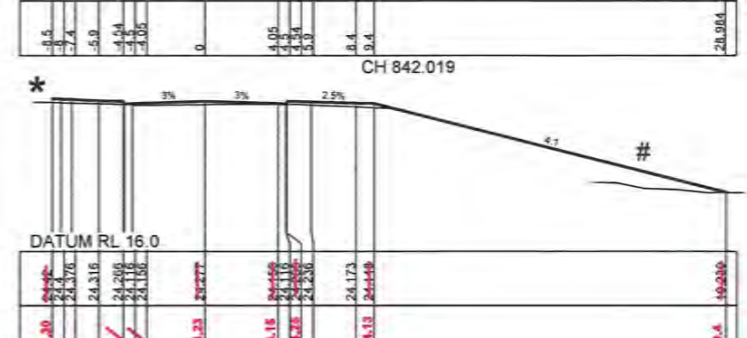
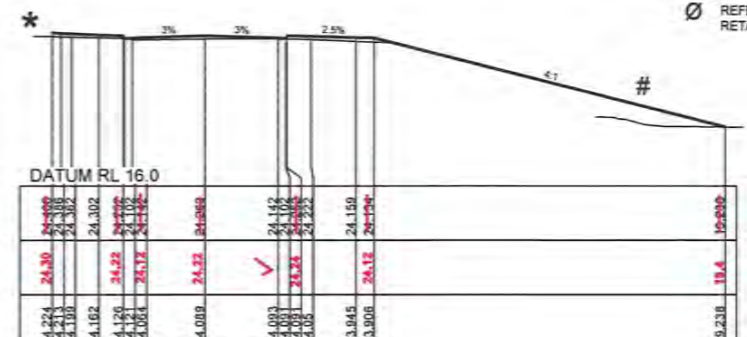
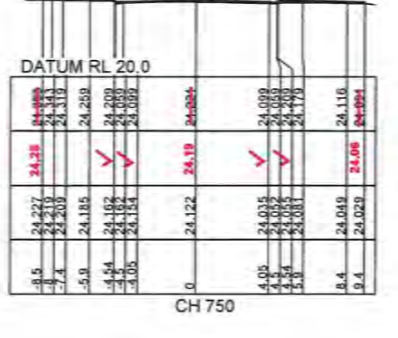
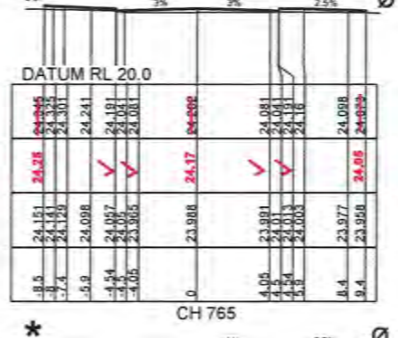
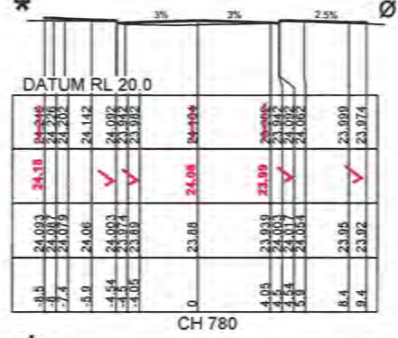
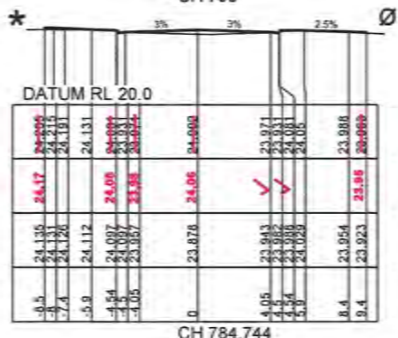
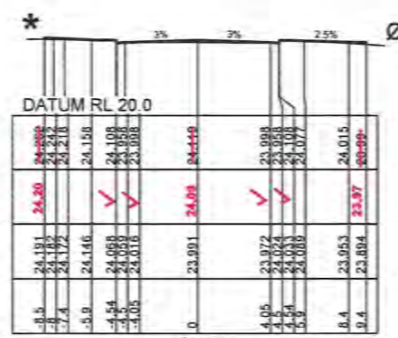
NEWPARK PRECINCT 5
 ROAD CROSS SECTIONS
 ROAD D2 SHEET 3

PLAN No: 998511/CC422	C
FILE No: 998511CC422	
SHEET SIZE: A1 ORIGINAL	

NOTE:
 * FOR LOT GRADING REFER TO PLAN CC407 TO CC410
 # DENOTES RESERVE



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates
Signature: [Signature]
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 14/07/2021 REF 20260-5



NOTE:
* FOR LOT GRADING REFER TO PLAN CC407 TO CC410
DENOTES RESERVE
Ø REFER TO PLAN CC472 FOR RETAINING WALL 4 GRADING

LDC
These plans are referred to in certificate no. 15879 approved by:
Christopher Louis Wahbe
Accredited Certifier
Registration No: EPB 3015
Categories: B1,C1,C2,C3,C4,C6 & C15
Land Development Certificates
www.LDC.com.au

	DESIGN SURFACE LEVEL	WAE	EXISTING SURFACE LEVEL	OFFSET
8.5	24.065	24.93	24.005	0
7.4	23.975	24.93	23.975	0
5.9	23.742	23.993	23.977	0
4.5	23.723	23.943	23.861	0
4.05	23.715	23.730	23.715	0
4.05	23.682	23.76	23.682	0
4.05	23.648	23.64	23.648	0
4.4	23.773	23.81	23.773	0
5.9	23.877	23.877	23.877	0
8.4	23.834	23.834	23.834	0
9.4	23.887	23.8	23.887	0
10.38	23.953	23.8	23.953	0

ROAD D2 (Cont)

ROAD D2 CROSS SECTIONS UPDATED



AMENDMENT	DES	DRN	CHKD	APR	DATE
A	DG	MS	RO	MS	26/09/19
B	DG	NM/JM	RO	MS	12/09/19
C	DG	NM	RO	MS	02/09/19

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

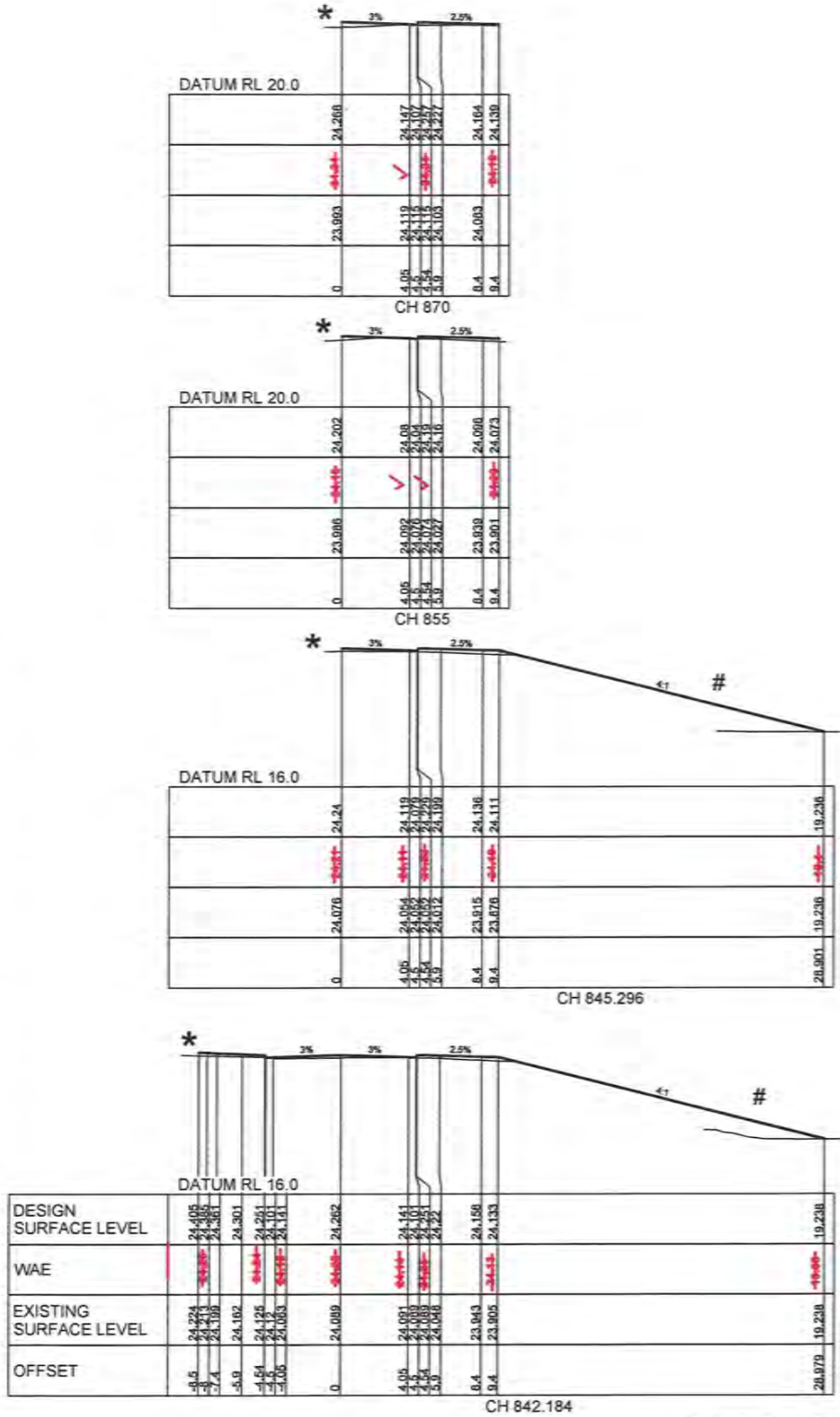
PO: Box #366 PENRITH WESTFIELD NSW 2750
P: 02 4700 3300 W: www.jwprince.com.au E: jw@jwprince.com.au

CLIENT: WINTEN PROPERTY GROUP
AZIMUTH: AHD
DATUM: MGA
ORIGIN: THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE

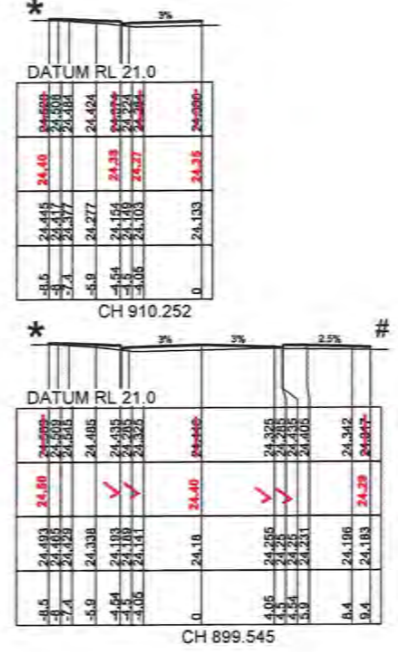
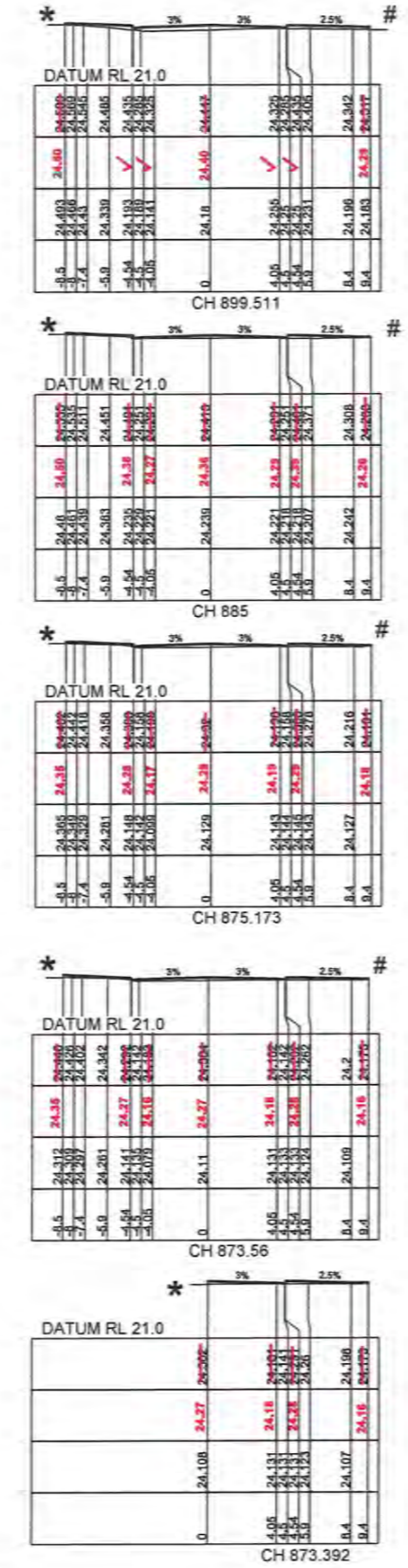
ISSUE FOR CONSTRUCTION APPROVAL
NEWPARK PRECINCT 5
ROAD CROSS SECTIONS
ROAD D2 SHEET 4
PLAN No: 998511/CC423
FILE No: 998511CC423
SHEET SIZE: A1 ORIGINAL

Plotted: 26 September, 2019 2:44:30 PM File Name: J:\998511\CC424 - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\998511\CC424.dwg

NOTE:
 * FOR LOT GRADING REFER TO PLAN CC407 TO CC410
 # DENOTES RESERVE



ROAD D2 (Cont) ROAD D2 CROSS SECTIONS UPDATED



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: *[Signature]*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 14/07/2021 REF 20260-5

LDC These plans are referred to in certificate no. **15879** approved by...

Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPB 3015
 Categories: B1, C1, C2, C3, C4, C5 & C15

Land Development Certificates
 www.LDC.com.au

DES	DRN	CKD	APR	DATE	
C	DG	VS	RO	MS	26/09/19
B	DG	NM	RO	MS	12/09/19
A	DG	NM	RO	MS	02/09/19
AMENDMENT					

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PC Box 4366 PENRITH WESTFIELD NSW 1797
 P O 4726 SYDNEY W www.jwyndhamprince.com.au

CLIENT: **WINTEN PROPERTY GROUP**

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN: THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 ROAD CROSS SECTIONS
 ROAD D2 SHEET 5

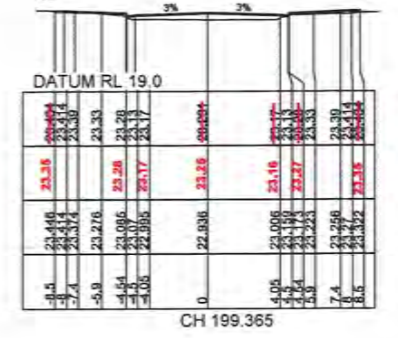
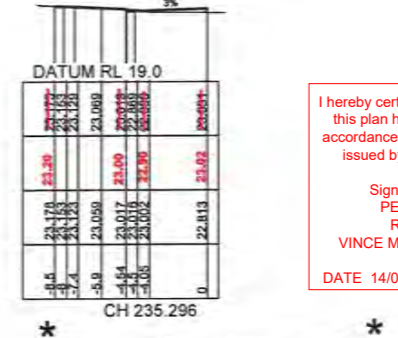
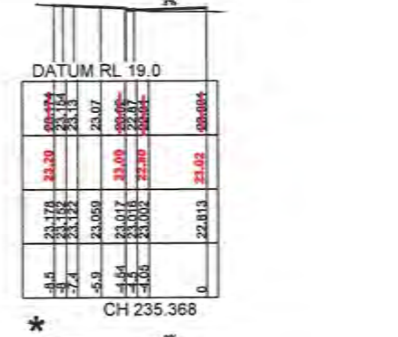
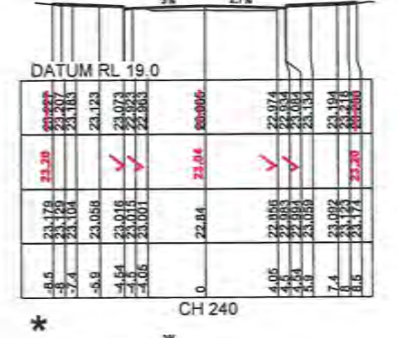
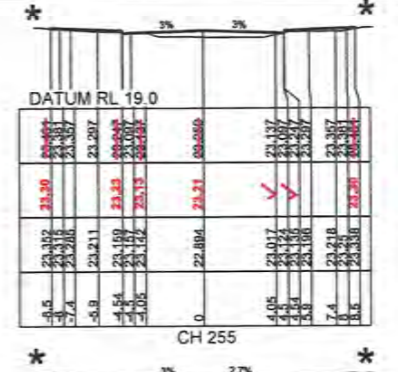
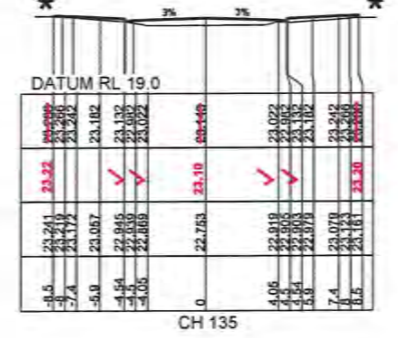
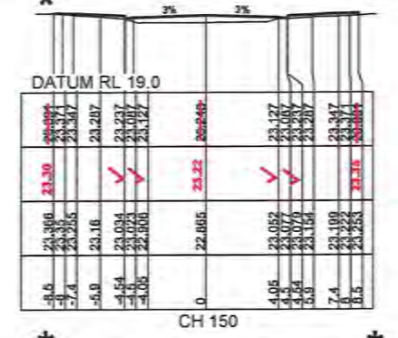
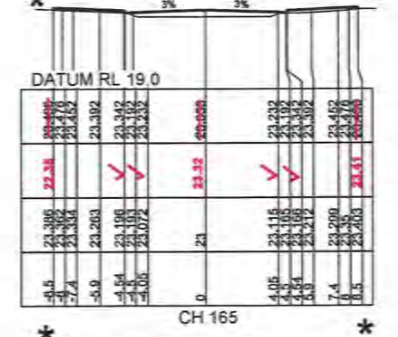
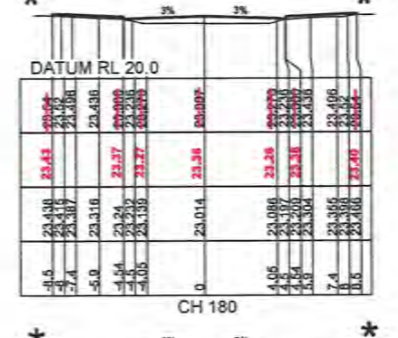
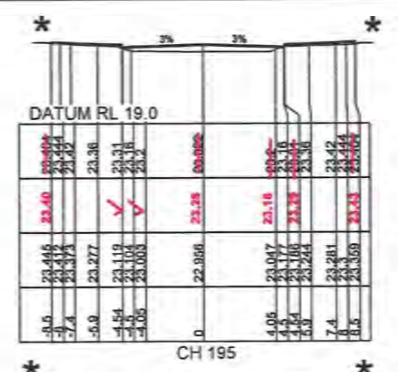
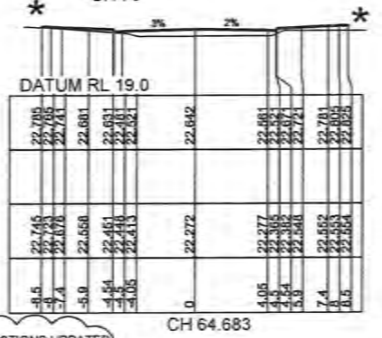
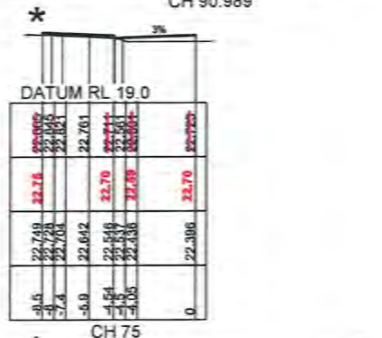
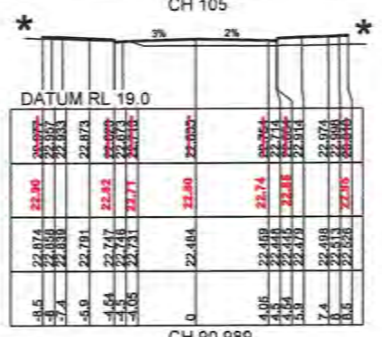
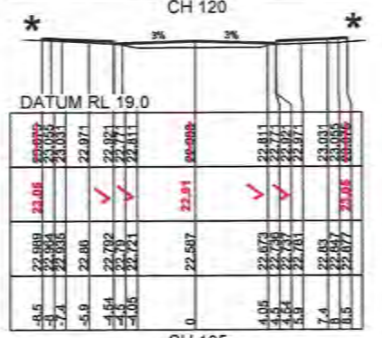
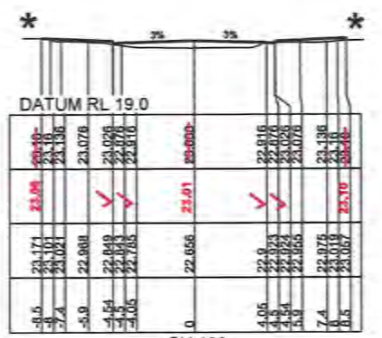
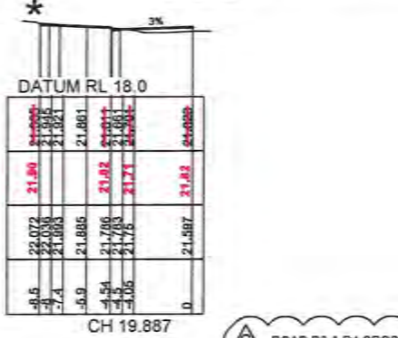
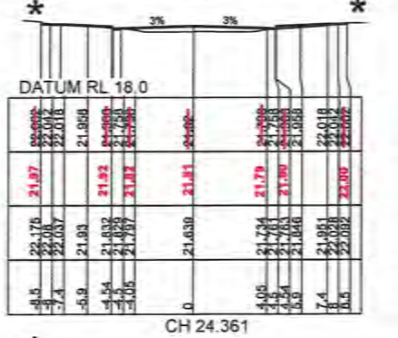
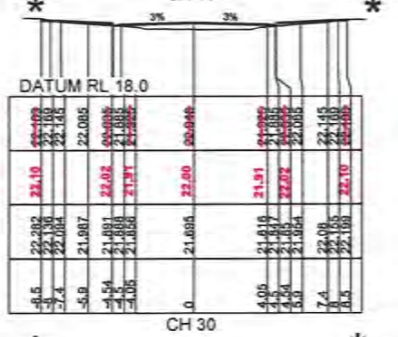
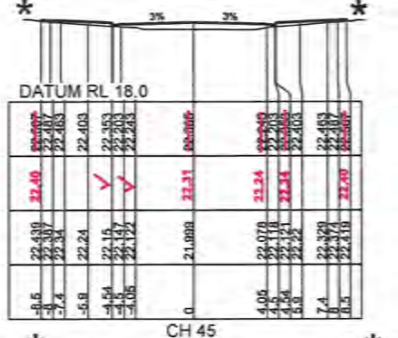
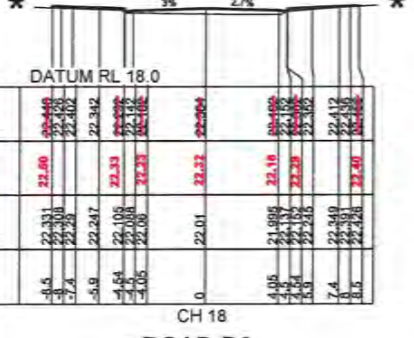
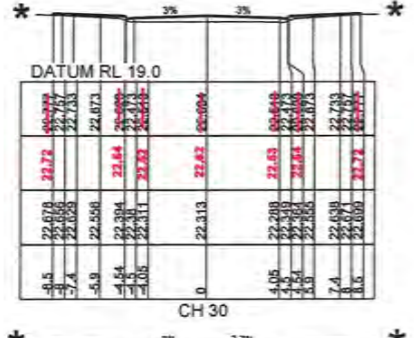
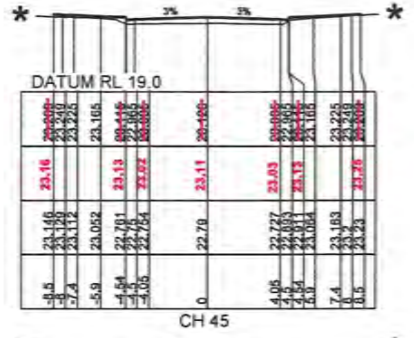
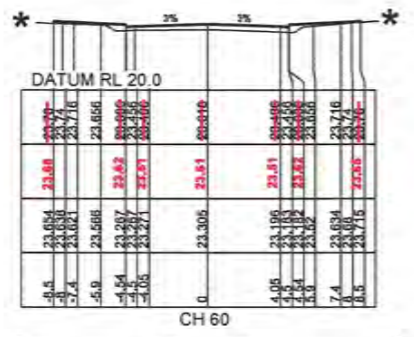
PLAN No: **998511/CC424** **C**
 FILE No: 998511CC424
 SHEET SIZE: A1 ORIGINAL

Plotted: 26 September 2019 2:44:19 PM File Name: J:\998510\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\PRECINCT 5 DOCUMENTATION\998511CC425.dwg



These plans are referred to in certificate no. **15879** approved by
Christopher Louis Wahele
 Accredited Certifier
 Registration No: **05833018**
 Category: **SLC1, C2, C3, C4, C5 & C15**
 Land Development Certificates
 www.LDC.com.au


	DESIGN SURFACE LEVEL	WAE	EXISTING SURFACE LEVEL	OFFSET
-0.5	22.40		22.33	-0.5
0	22.40		22.33	0
0.5	22.40		22.33	0.5
1.0	22.40		22.33	1.0
1.5	22.40		22.33	1.5
2.0	22.40		22.33	2.0
2.5	22.40		22.33	2.5
3.0	22.40		22.33	3.0
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4.5	22.40		22.33	4.5
5.0	22.40		22.33	5.0
5.5	22.40		22.33	5.5
6.0	22.40		22.33	6.0
6.5	22.40		22.33	6.5
7.0	22.40		22.33	7.0
7.5	22.40		22.33	7.5
8.0	22.40		22.33	8.0
8.5	22.40		22.33	8.5



ROAD D3 & D4 CROSS SECTIONS UPDATED



NOTE:
 * FOR LOT GRADING REFER TO PLAN CC421 TO CC410
 # DENOTES RESERVE

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates
 Signature: 
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

NO.	DESCRIPTION	DATE
C	ISSUE FOR CONSTRUCTION APPROVAL	26/09/19
B	ISSUE FOR CAA APPROVAL	12/09/19
A	ISSUE FOR CONSTRUCTION APPROVAL	02/09/19
	AMENDMENT	

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
 PO Box 4366 PENRITH WESTFIELD NSW 2050
 P 02 4720 3300 W www.jwyndhamprince.com.au

CUSTOMER:
 **WINTAN PROPERTY GROUP**
 THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

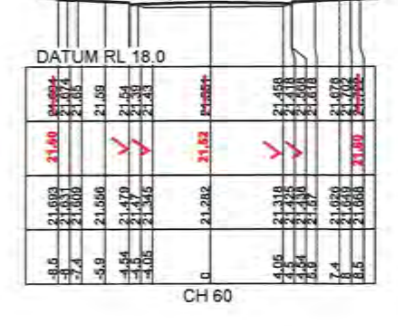
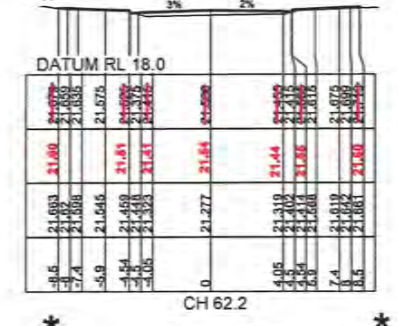
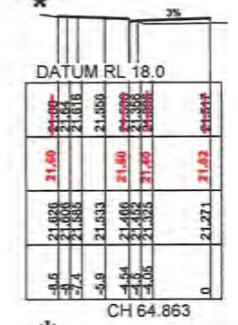
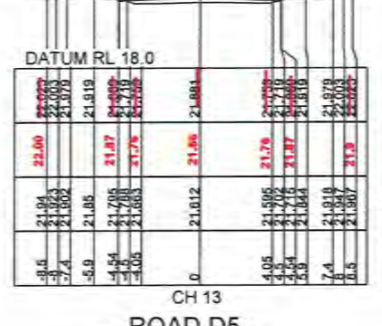
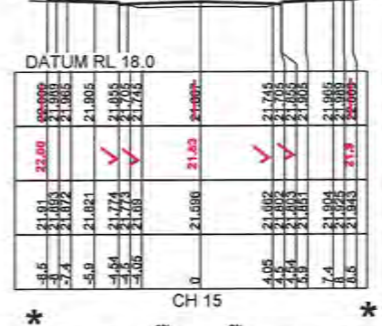
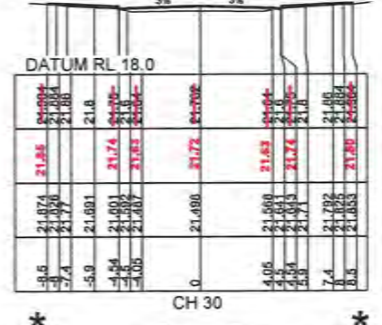
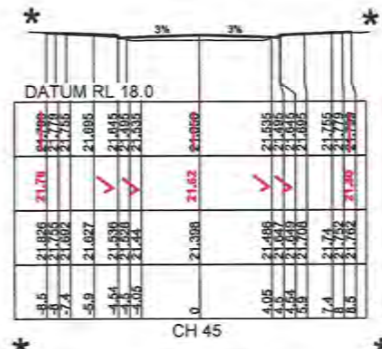
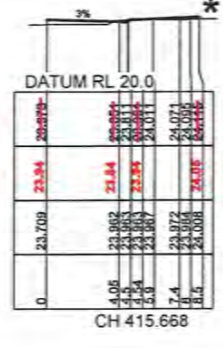
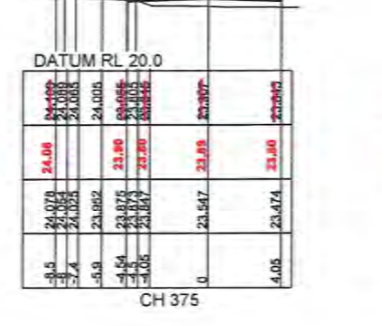
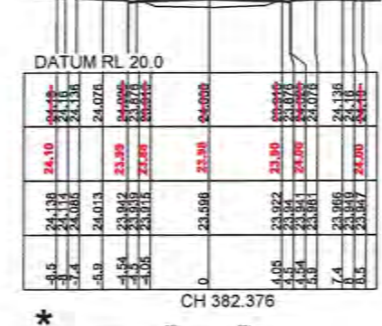
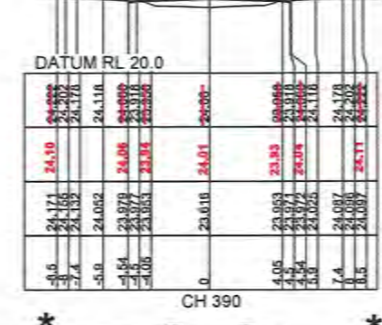
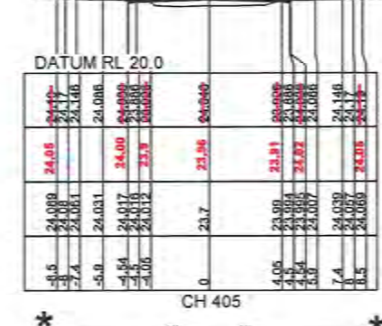
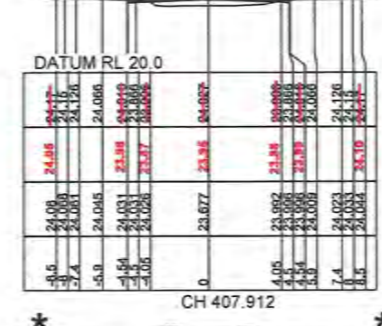
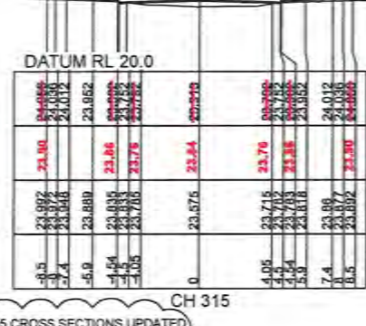
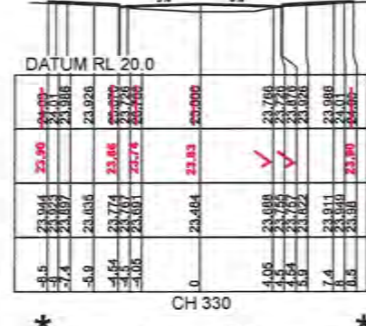
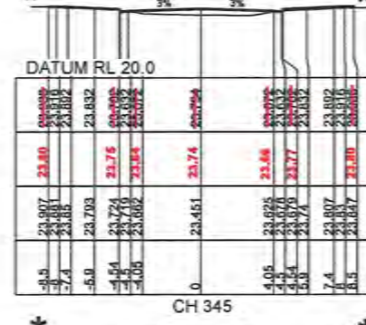
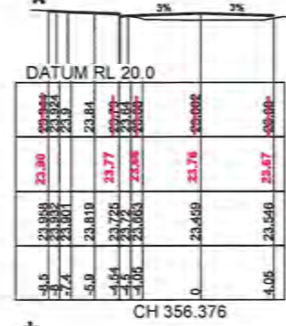
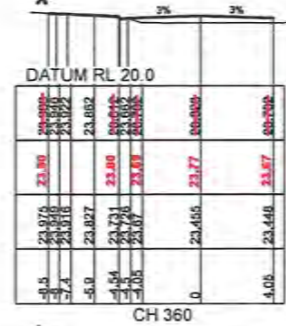
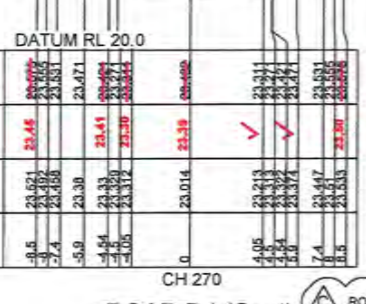
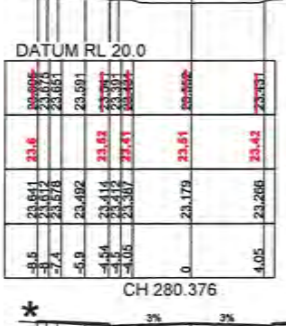
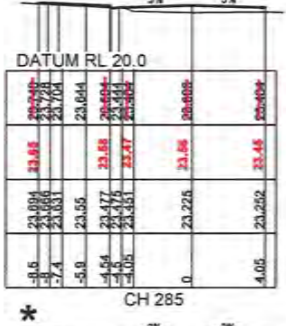
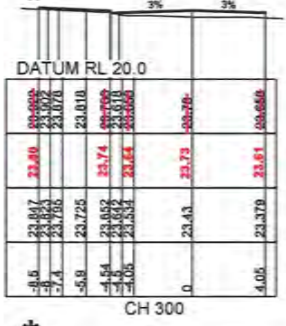
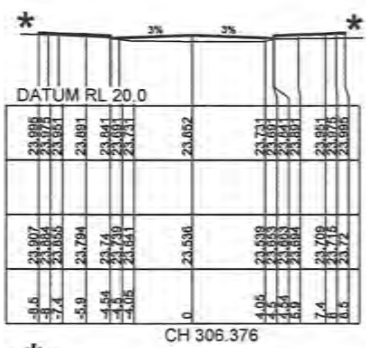
ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 ROAD CROSS SECTIONS
 ROAD D3 AND ROAD D4

PLAN No: **998511/CC425** **C**
 FILE No: 998511CC425
 SHEET SIZE: A1 ORIGINAL

Printed: 28 September 2019 2:44:07 PM File Name: J:\98511\CC426 - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRINCINT 5 DOCUMENTATION\98511CC426.dwg

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-3.05	23.537	23.55	23.507	0
0	23.479	23.51	23.451	0
4.05	23.266	23.42	23.238	0



LDC
 These plans are referred to in certificate No. 15879 approved by
 Christopher Louis Wahbe
 Accredited Chartered
 Registration No: EPS 5015
 Categories: B1, C1, C2, C3, C4, C5 & C7
 Land Development Certificates
 www.LDC.com.au

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature:
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

NOTE:
 * FOR LOT GRADING REFER TO PLAN CC407 TO CC410
 # DENOTES RESERVE

ROAD D4 (Cont)

ROAD D4 & D5 CROSS SECTIONS UPDATED



CLIENT:

 WINTAN PROPERTY GROUP

ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 ROAD CROSS SECTIONS
 ROAD D4 AND ROAD D5

PLAN No: 998511/CC426 **C**
 FILE No: 998511CC426
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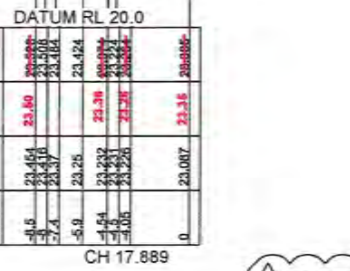
J. WYNTHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4666 SOUTH WESTFIELD NSW 2250
 P 02 4372 3300 W www.jwprince.com.au E info@jwprince.com.au

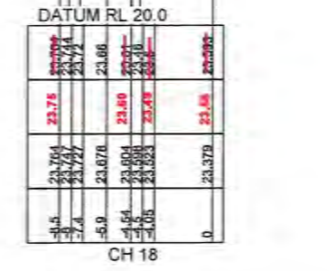
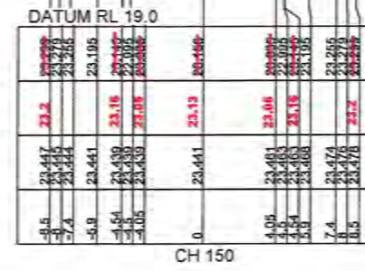
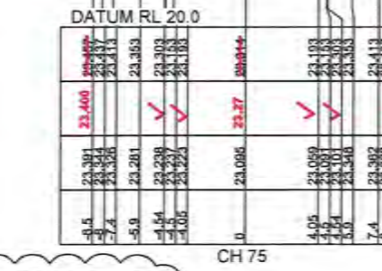
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C	ISSUE FOR CONSTRUCTION APPROVAL	DG	VS	RO	MS	26/09/19
B	ISSUE FOR CAA APPROVAL	DG	NM/IM	RO	MS	12/09/19
A	ISSUE FOR CONSTRUCTION APPROVAL	DG	NM	RO	MS	02/09/19

Printed: 20 September, 2019 2:44:36 PM File Name: J:\9850CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 6 DOCUMENTATION\998511CC428.dwg

DESIGN SURFACE LEVEL	WAE	EXISTING SURFACE LEVEL	OFFSET
23.60	23.50	23.16	0.5
23.60		23.17	0.4
23.60		23.17	0.4
23.42	23.30	23.25	-0.8
23.42	23.30	23.31	-0.4
23.42	23.30	23.37	0.0
23.35	23.35	23.35	0.0



ROAD D7 & D8 CROSS SECTIONS UPDATED



J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4256 PRINCE EDWARD ISLAND 5200
 P 08 8538 3000 W www.jwprince.com.au E info@jwprince.com.au

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature:  **PETER ROBERT WARWICK**
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5



These plans are referred to in certificate no. **15879** approved by: **Christopher Louis Wahbe** Accredited Certifier
 Registration No: **BPB 3015**
 Categories: **B1,C1,C2,C3,C4,C5,C6,C7**
 Land Development Certificates
 www.LDC.com.au

NOTE:
 * FOR LOT GRADING REFER TO PLAN CC407 TO CC410
 # DENOTES RESERVE

AMENDMENT	DES	DRN	CKD	APR	DATE
A					02/09/19
B					12/08/19
C	DG	VS	RO	MS	28/09/19

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

CLIENT:



WINTEN PROPERTY GROUP

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

ISSUE FOR CONSTRUCTION APPROVAL

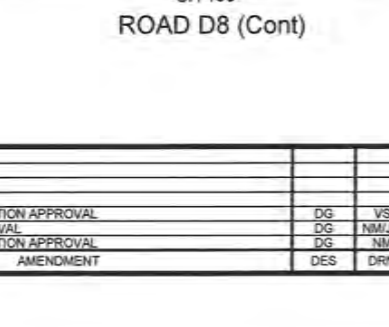
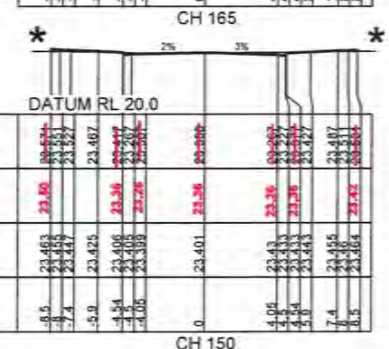
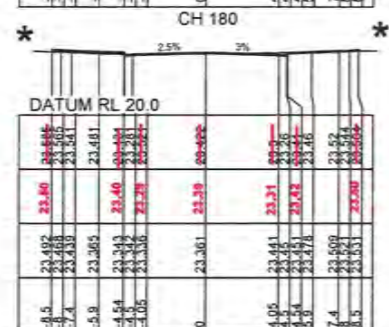
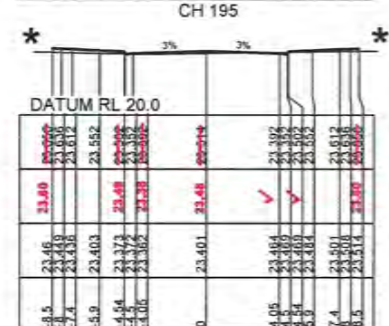
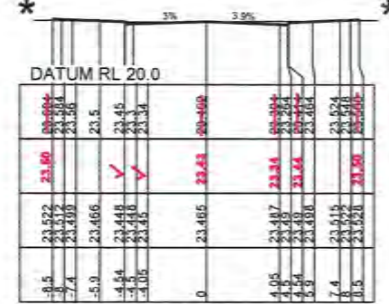
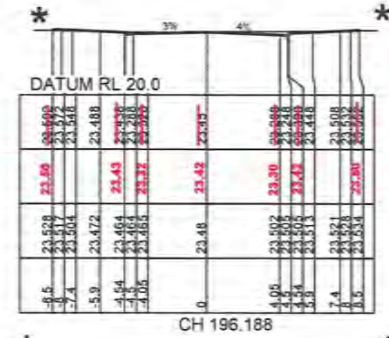
NEWPARK
 PRECINCT 5
 ROAD CROSS SECTIONS
 ROAD D7 AND ROAD D8

PLAN No: **998511/CC428**

FILE No: 998511CC428

SHEET SIZE: **A1 ORIGINAL**

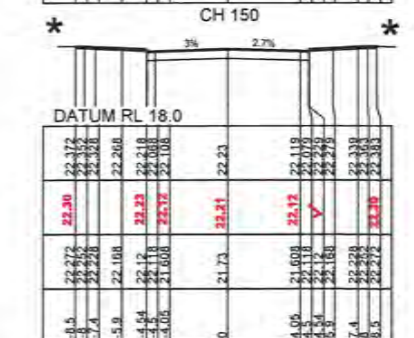
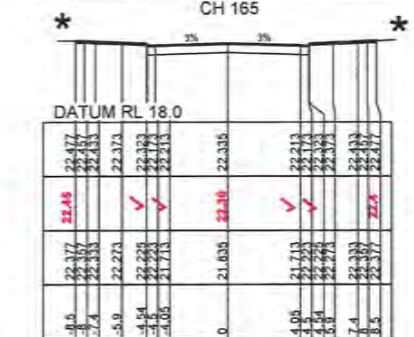
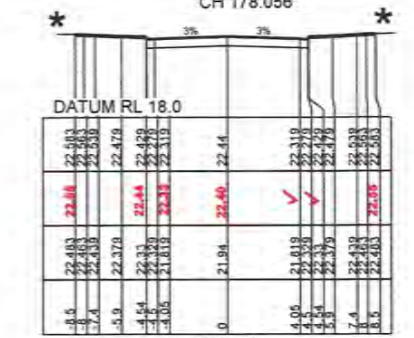
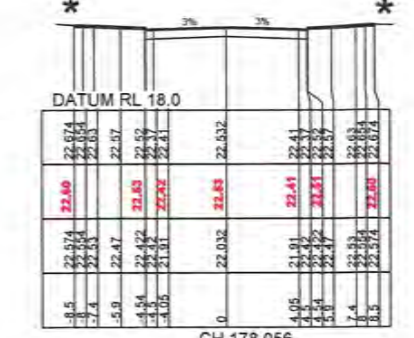
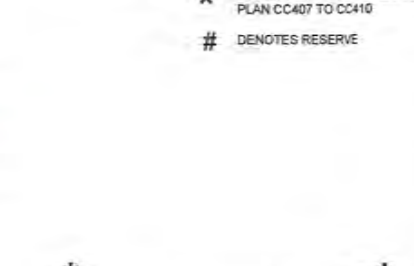
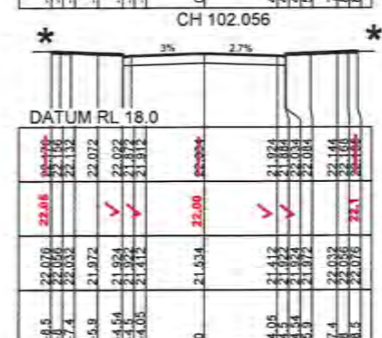
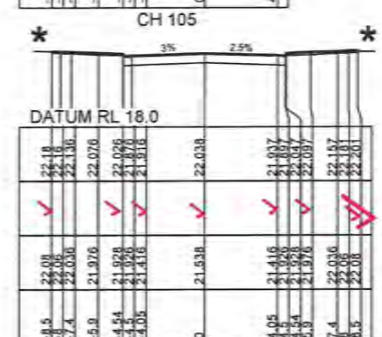
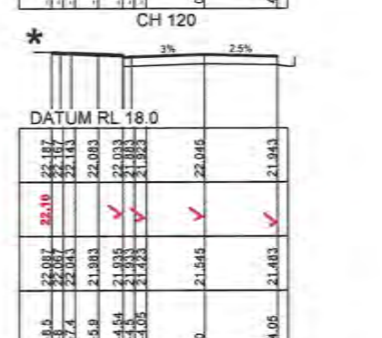
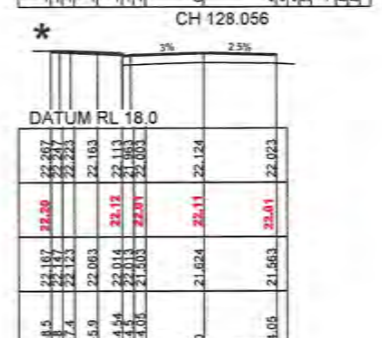
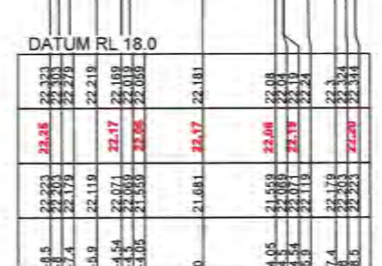
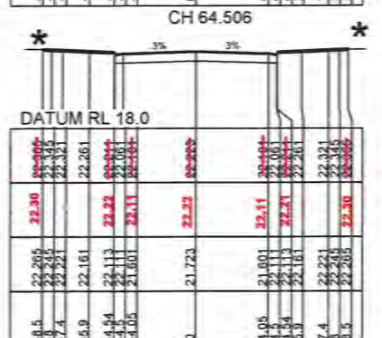
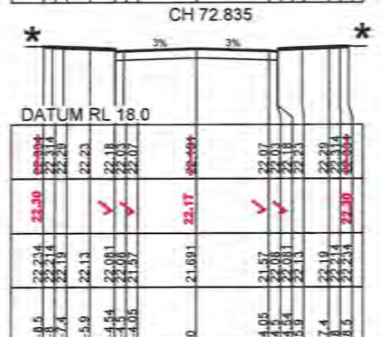
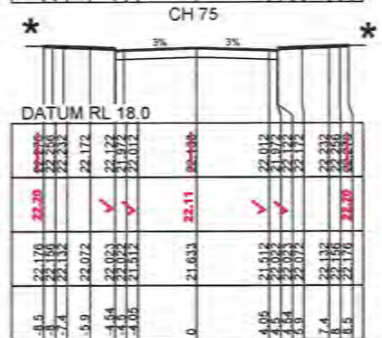
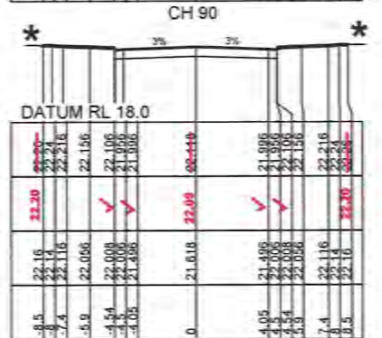
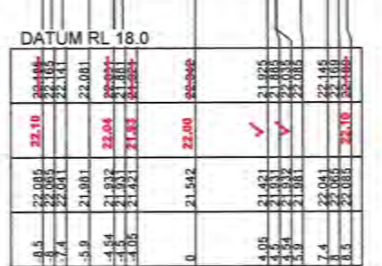
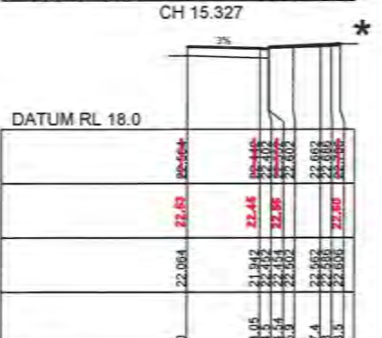
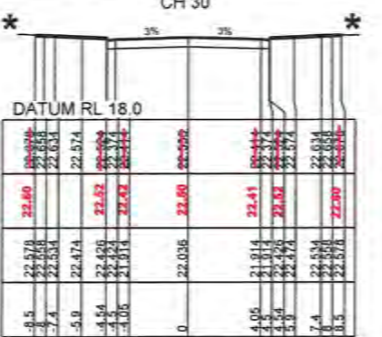
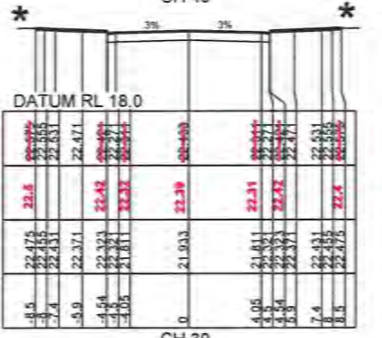
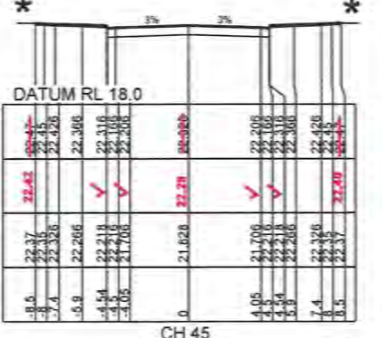
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LDC logo and registration information for Christopher Louis Webbe, a registered land surveyor.

Signature of Peter Robert Warwick, Registered Land Surveyor, Vince Morgan Surveyors Pty Ltd, dated 14/07/2021.

Signature of Peter Robert Warwick, Registered Land Surveyor, Vince Morgan Surveyors Pty Ltd, dated 14/07/2021.



NOTE: * FOR LOT GRADING REFER TO PLAN CC407 TO CC410; # DENOTES RESERVE

Table with 4 columns: DESIGN SURFACE LEVEL, WAE, EXISTING SURFACE LEVEL, OFFSET, for various chainages.

Table with 4 columns: DESIGN SURFACE LEVEL, WAE, EXISTING SURFACE LEVEL, OFFSET, for chainage CH 202.431.

ROAD D8 & D9 CROSS SECTIONS UPDATED



Client information: WINTEN PROPERTY GROUP.

ISSUE FOR CONSTRUCTION APPROVAL


Project details: NEWPARK PRECINCT 5 ROAD CROSS SECTIONS ROAD D8 AND ROAD D9.

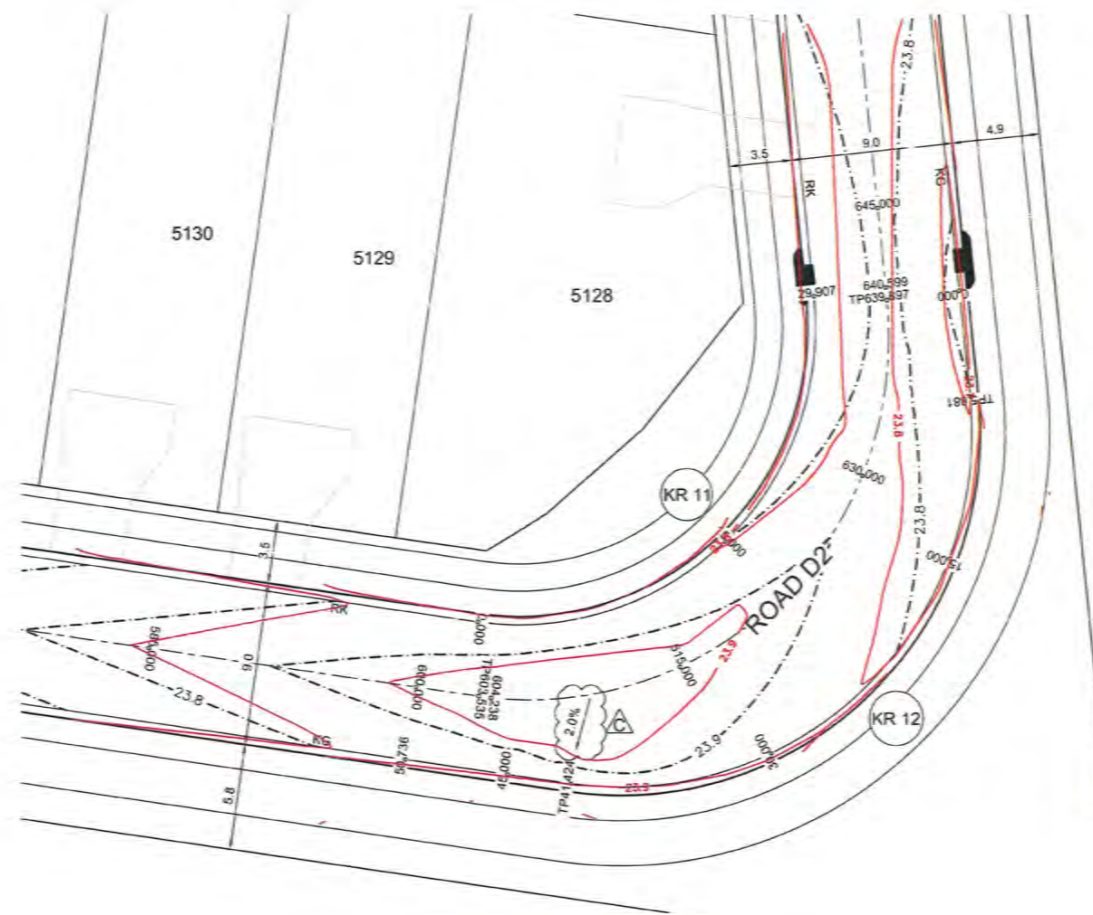
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Professional information: J. WYNTHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS.

Revision table with columns: AMENDMENT, DES, DRN, CKD, APR, DATE.

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature 
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5



KERB RETURN 11 AND 12 PLAN
 SCALE 1:200

LDC These plans are referred to in certificate no. **15879** approved by
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPB 3015
 Categories: B1, C1, C2, C3, C4, C6 & C15
 Land Development Certificates
 www.LDC.com.au

CREST
 CH 4.977
 RL 23.868m

DESIGN GRADELINE	0.4%	0.4%	-1.1%	-0.6%
VERTICAL GEOMETRY	10.00m V.C.			
DATUM 21.0				
DESIGN	23.845	23.854	23.844	23.815
LIP GRADING	23.845	23.859	23.844	23.79
CHAINAGE	0	2.477	4.977	20.902

KR 11
 HORIZONTAL SCALE 1:200
 VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	296289.01	6268386.95	98°11'33.75"		
14.95	296309.91	6268383.94		-16.45	29.91
29.91	296307.71	6268404.95	354°01'28.03"		

CREST
 CH 37.682
 RL 23.868m

DESIGN GRADELINE	0.6%	-0.5%
VERTICAL GEOMETRY	10.00m V.C.	
DATUM 21.0		
DESIGN	23.868	23.833
LIP GRADING	23.868	23.833
CHAINAGE	0	50.716

KR 12
 HORIZONTAL SCALE 1:200
 VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	296315.82	6268405.25	174°01'28.03"		
5.88	296316.44	6268399.4	174°01'28.03"		
23.65	296319.05	6268374.44		19.55	35.54
41.42	296294.21	6268378.02	278°11'33.75"		
50.74	296284.99	6268379.35	278°11'33.75"		



LDC These plans are referred to in certificate no. **15879** approved by
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPB 3015
 Categories: B1, C1, C2, C3, C4, C6 & C15
 Land Development Certificates
 www.LDC.com.au

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with the plans and specifications approved by Darlinghurst City Council

Plotter: 26 September, 2019 2:44:51 PM File Name: J:\998511\CC429 - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCTS\PRECINCT 5 DOCUMENTATION\998511CC429.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
C					26/09/19
B					12/09/19
A					02/09/19

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

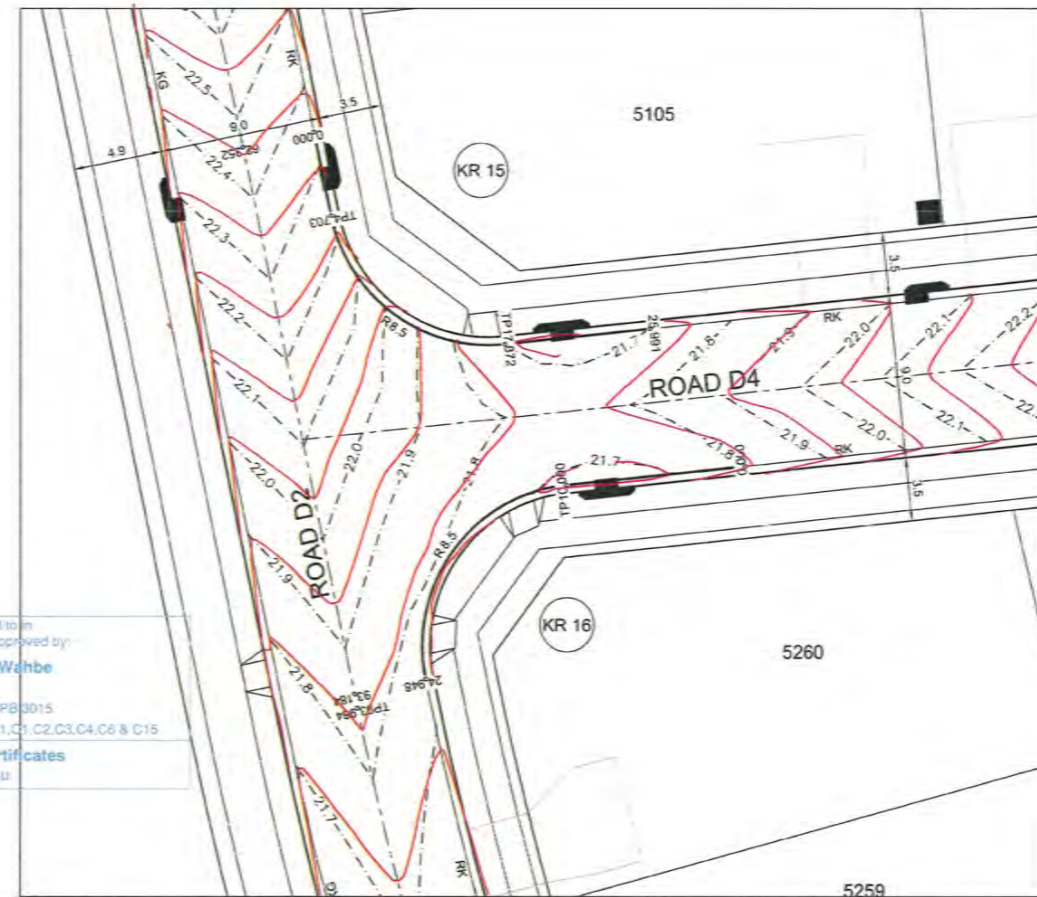
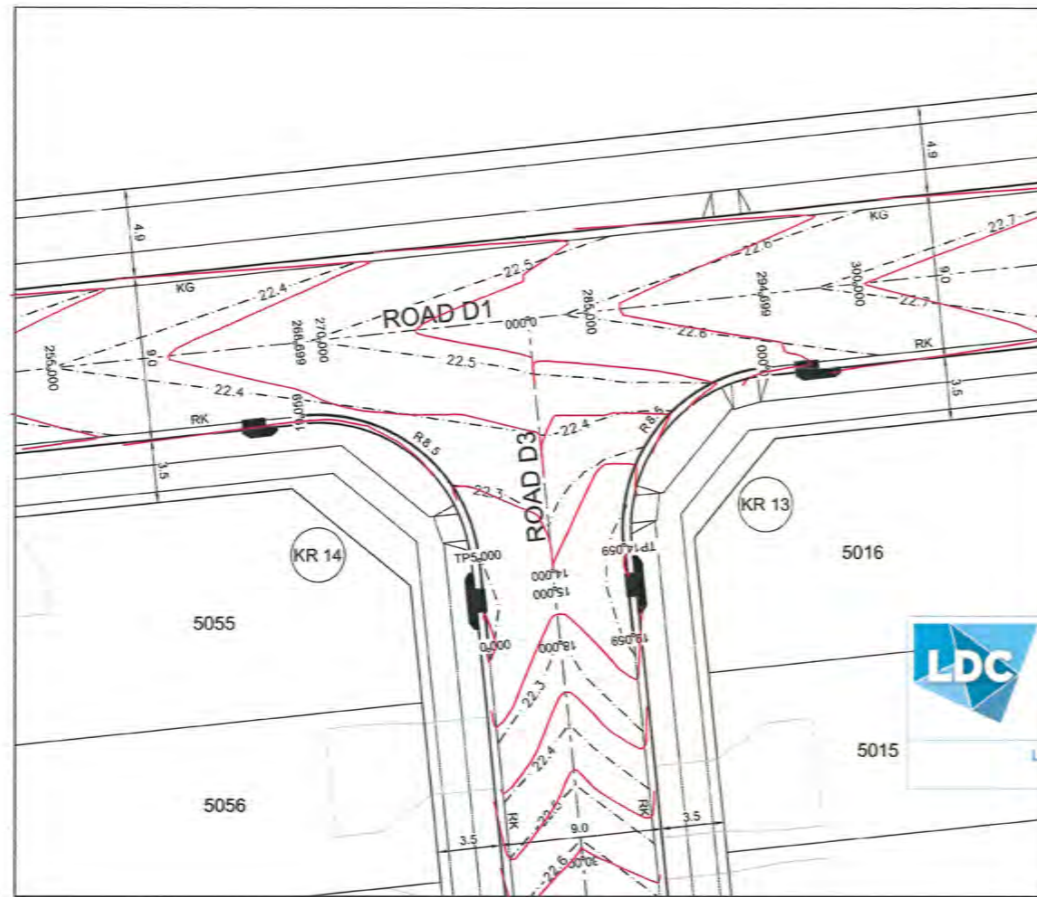
CLIENT:
 **WINTEN PROPERTY GROUP**
 AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:
 THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE

ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
KERB RETURNS
SHEET 1

PLAN No:	998511/CC429	C
FILE No:	998511CC429	
SHEET SIZE:	A1 ORIGINAL	

DESIGN LEVELS AND SETOUT ARE TO LIP OF KERB

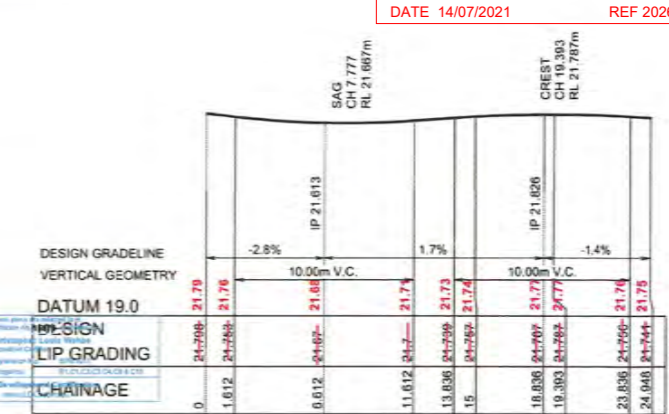
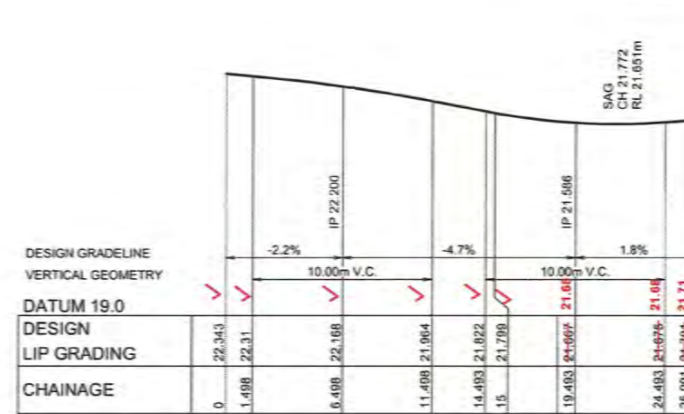
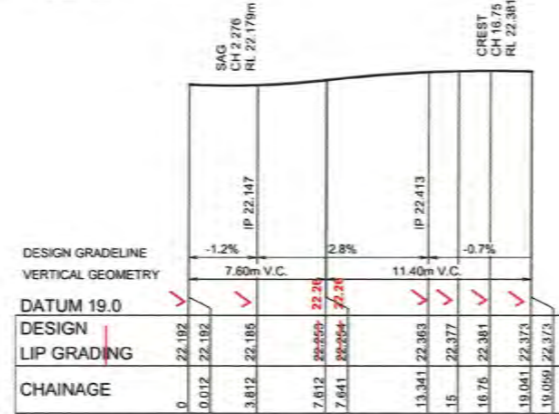
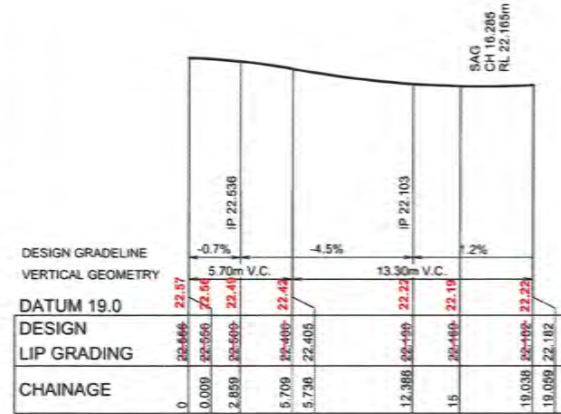


These plans are referred to in certificate no. 15879 approved by:
Christopher Louis Wehbe
 Accredited Certifier
 Registration No: EPB3015
 Categories: B1, C1, C2, C3, C4, C6 & C15
 Land Development Certificates
 www.LDC.com.au

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 Signature:
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE: 14/07/2021 REF 20260-5

KERB RETURN 13 AND 14 PLAN
SCALE 1:200

KERB RETURN 15 AND 16 PLAN
SCALE 1:200



KR 13
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

KR 14
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

KR 15
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

KR 16
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	296060.04	6268744.78	264°01'28.02"		
7.03	296051.14	6268743.84		-8.95	14.06
14.06	296052.07	6268734.94	174°01'28.02"		
19.05	296052.59	6268729.97	1174°01'28.02"		

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	296044.53	6268729.13	354°01'28.02"		
5	296044.01	6268734.1	354°01'28.02"		
12.03	296043.08	6268743		-8.95	14.06
19.05	296034.18	6268742.07	264°01'28.02"		

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295847.37	6268586.62	168°19'48.09"		
4.7	295848.32	6268582.01	168°19'48.09"		
11.29	295849.96	6268574.08		-8.95	13.17
17.87	295858.02	6268574.92	84°01'28.02"		
25.99	295869.09	6268575.77	84°01'28.02"		

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295371.38	6268568.18	264°01'28.02"		
10	295361.44	6268567.14	264°01'28.02"		
17.47	295351.61	6268566.11		-8.95	14.95
24.95	295353.61	6268556.42	168°19'48.09"		



CLIENT:

WINTAN PROPERTY GROUP

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ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
KERB RETURNS
SHEET 2

PLAN No: 998511/CC430
FILE No: 998511CC430
SHEET SIZE: A1 ORIGINAL

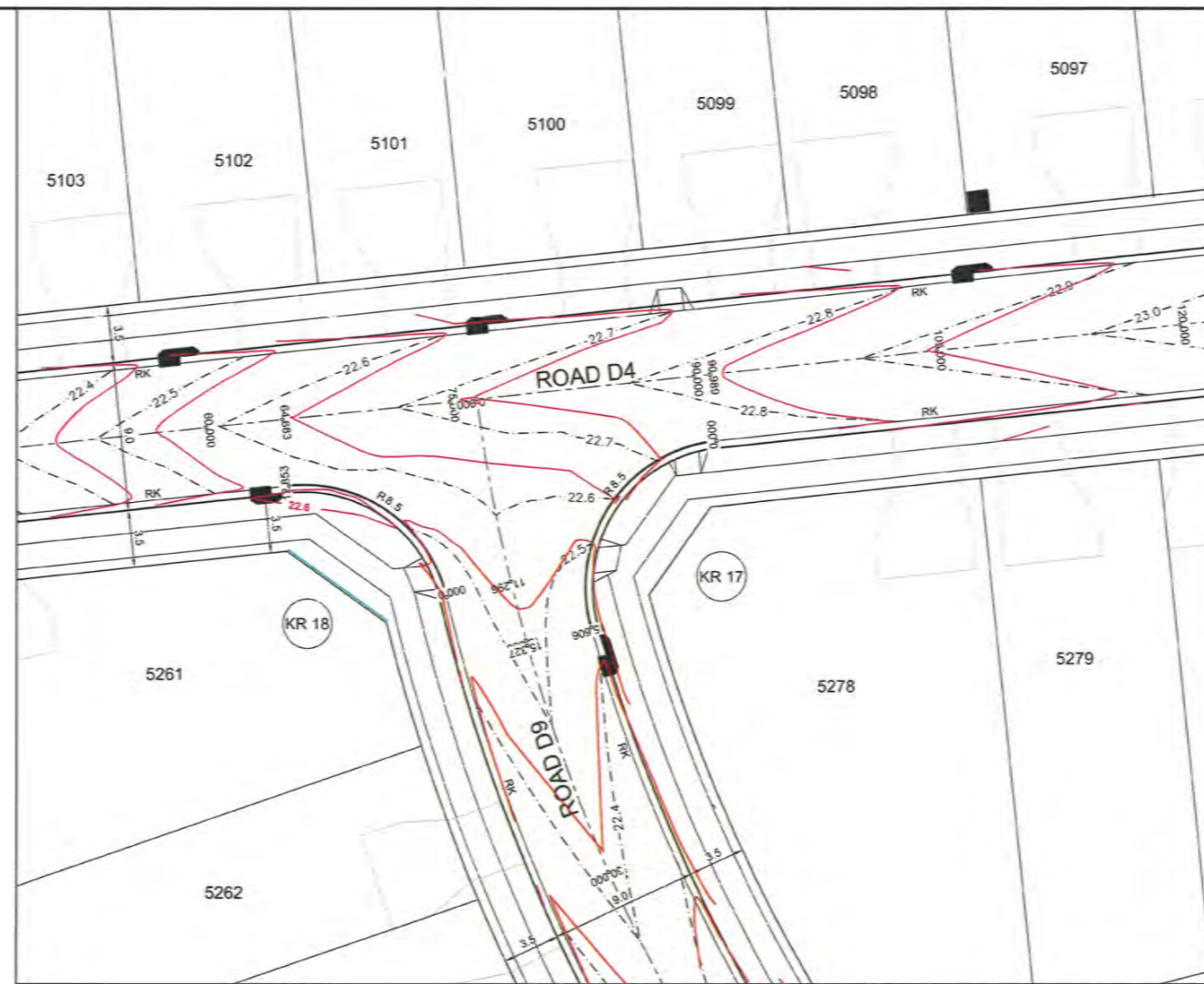
J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2150
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

Plotter: 26 September, 2019 2:44:51 PM File Name: J:\998511\CC430 - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT5\PRECINCT 5 DOCUMENTATION\998511CC430.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE	
C	ISSUE FOR CONSTRUCTION APPROVAL	DG	VS	RO	MS	26/09/19
B	ISSUE FOR CAA APPROVAL	DG	NM/JM	RO	MS	12/09/19
A	ISSUE FOR CONSTRUCTION APPROVAL	DG	JM	RO	MS	02/09/19

DESIGN LEVELS AND SETOUT ARE TO LIP OF KERB



KERB RETURN 17 AND 18 PLAN
SCALE 1:200

DESIGN GRADELINE	-0.7%	-3.7%	-0.7%
VERTICAL GEOMETRY	7.50m V.C.		7.50m V.C.
DATUM 20.0	✓	✓	✓
DESIGN	✓	✓	✓
LIP GRADING	✓	✓	✓
CHAINAGE	0	7.8	15.61

KR 17
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPRAL	A LENGTH
0	295937.85	6268575.11	264°01'28.02"		
7.8	295927.06	6268574		-8.55	15.61
15.61	295929.97	6268563.76	164°06'58.86"		

DESIGN GRADELINE	0.7%	2.0%	-1.0%
VERTICAL GEOMETRY	5.00m V.C.		6.00m V.C.
DATUM 20.0	✓	✓	✓
DESIGN	✓	✓	✓
LIP GRADING	✓	✓	✓
CHAINAGE	0	6.213	12.85

KR 18
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPRAL	A LENGTH
0	295921.11	6268565.59	346°18'12.96"		
6.43	295919.26	6268573.19		-8.95	12.85
12.85	295911.49	6268572.37	264°01'28.02"		

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

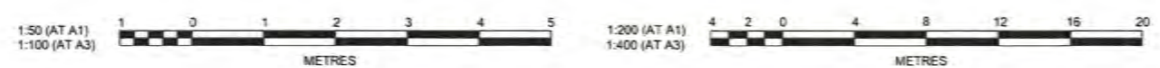
Signature: *[Signature]*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 14/07/2021 REF 20260-5

These plans are referred to in certificate no. 15879 approved by:

LDC Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPB 2015
 Categories: B1,C1,C2,C3,C4,C6 & C15

Land Development Certificates
 www.LDC.com.au



CLIENT:

W WINTEN PROPERTY GROUP

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

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

ISSUE FOR CONSTRUCTION APPROVAL

LDC **JVAL**

NEWPARK PRECINCT 5
 KERB RETURNS
 SHEET 3

PLAN No: 998511/CC431 **C**
 FILE No: 998511CC431
 SHEET SIZE: A1 ORIGINAL

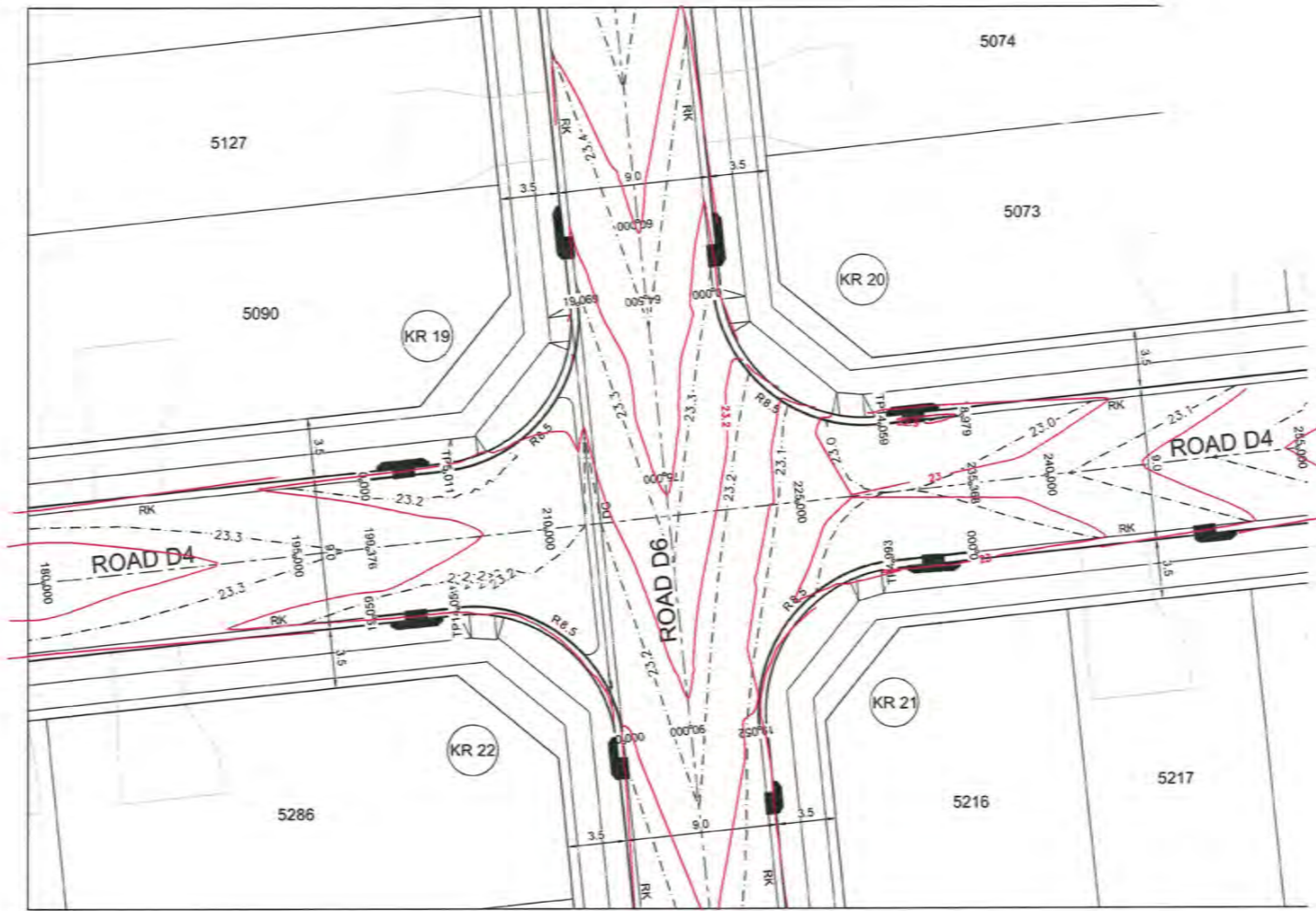
J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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

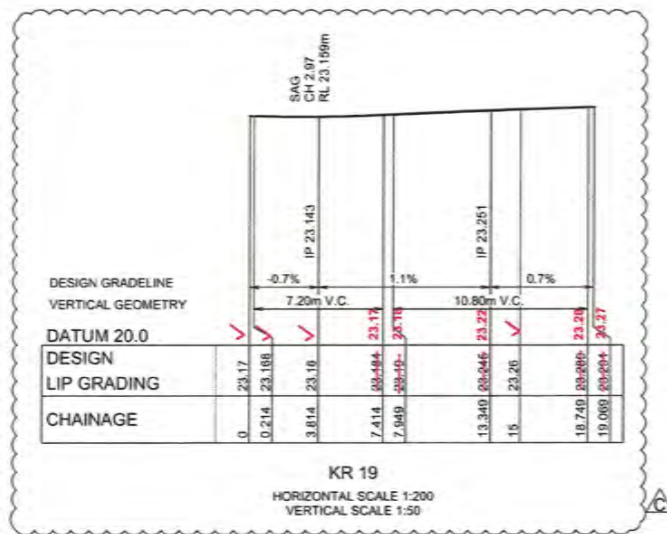
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AMENDMENT	DES	DRN	CKD	APR	DATE	
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B		DG	NM/JM	RO	MS	12/09/19
A		DG	JM	RO	MS	02/09/19

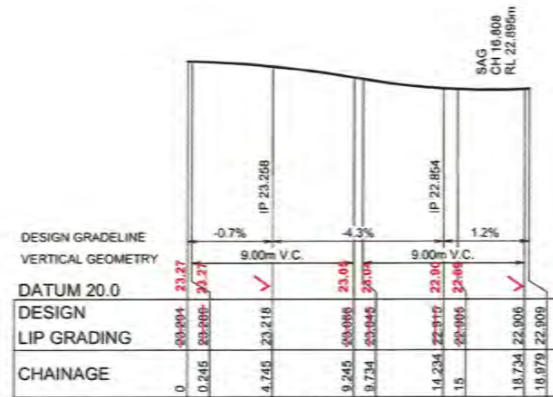
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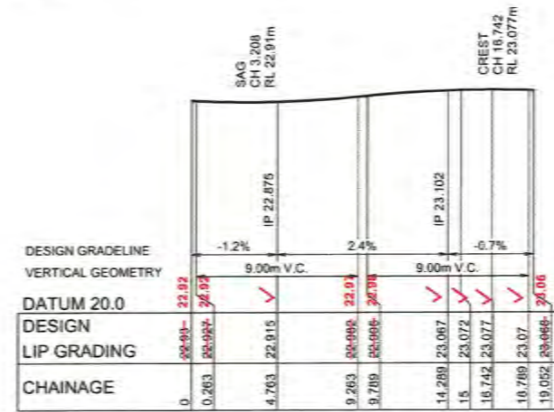
KERB RETURN 19 - 22 PLAN
SCALE 1:200



CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A LENGTH
0	296044.59	6268594.45	84°01'28.02"		
5.01	296049.58	6268594.97	84°01'28.02"		
12.04	296058.48	6268595.9		-8.95	14.06
19.07	296057.55	6268604.81	354°01'28.02"		




CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A LENGTH
0	296055.6	6268605.65	174°01'28.02"		
7.03	296066.53	6268596.75		-8.95	14.06
14.06	296075.44	6268597.68	84°01'28.02"		
18.98	296080.33	6268598.19	84°01'28.02"		



CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A LENGTH
0	296081.25	6268590.14	264°01'28.02"		
4.99	296078.28	6268589.82	264°01'28.02"		
12.02	296067.38	6268588.68		-8.95	14.06
19.05	296068.31	6268579.79	174°01'28.02"		



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates
 Signature: 
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5



CLIENT:



WINTEN PROPERTY GROUP

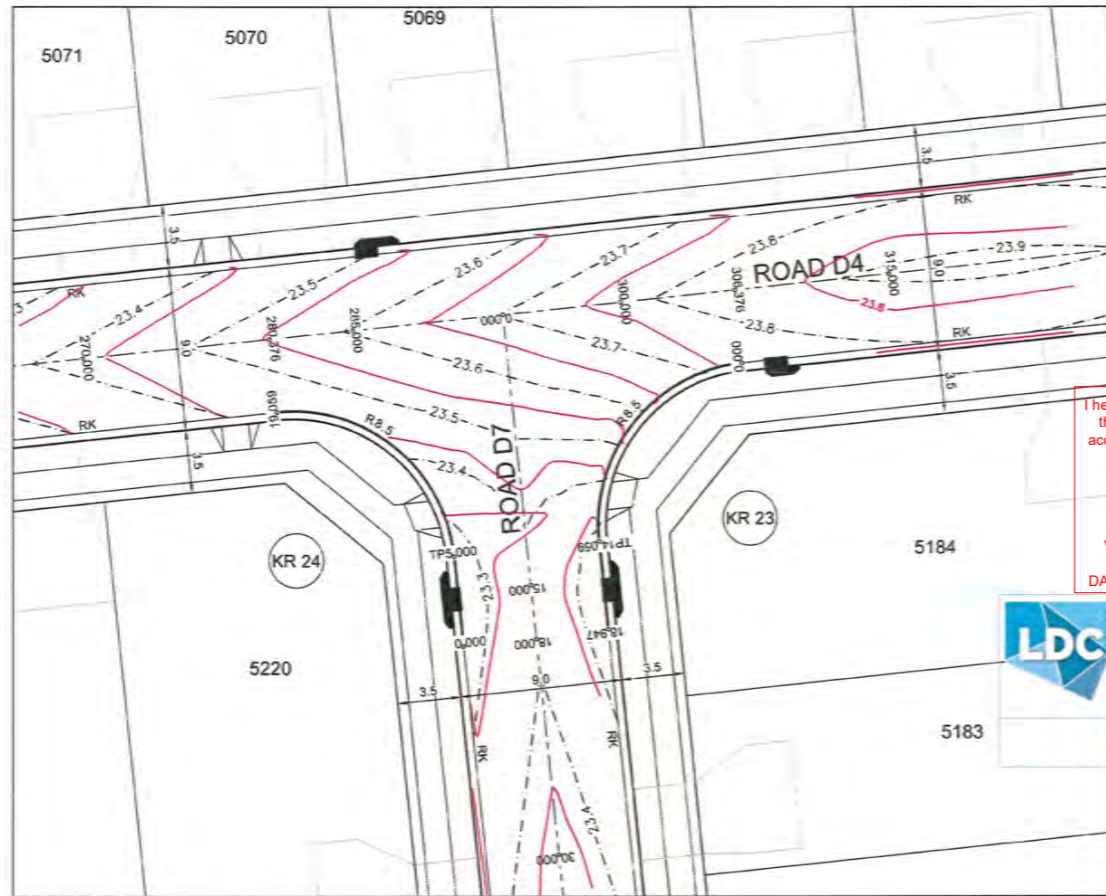
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J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

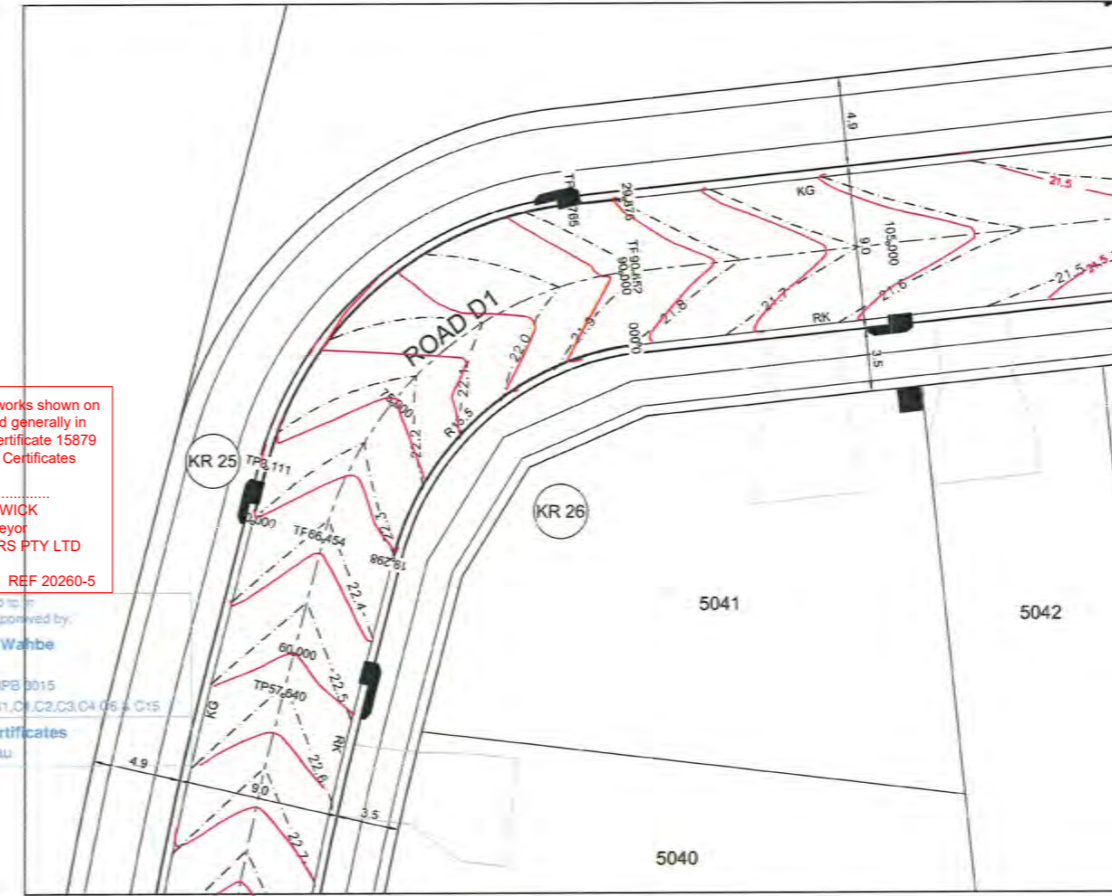
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AMENDMENT	DES	DRN	CKD	APR	DATE
C		VS	RO	MS	26/09/19
B		NM/JM	RO	MS	12/09/19
A		JM	RO	MS	02/09/19

DESIGN LEVELS AND SETOUT ARE TO LIP OF KERB



KERB RETURN 23 AND 24 PLAN
SCALE 1:200



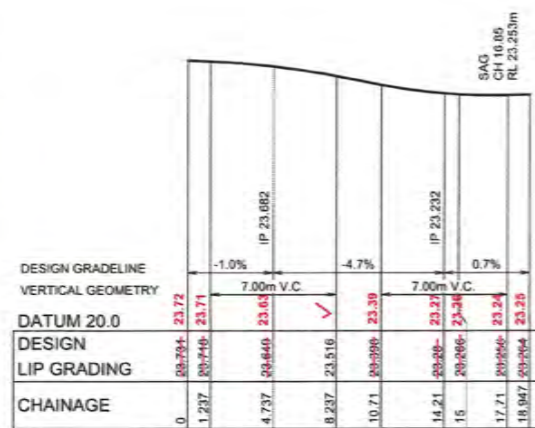
KERB RETURN 25 AND 26 PLAN
SCALE 1:200

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

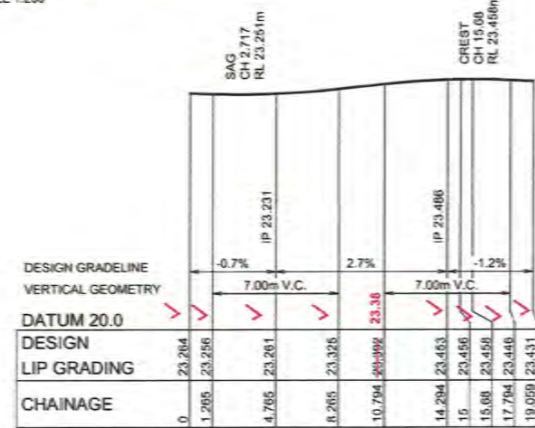
Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 14/07/2021 REF 20260-5

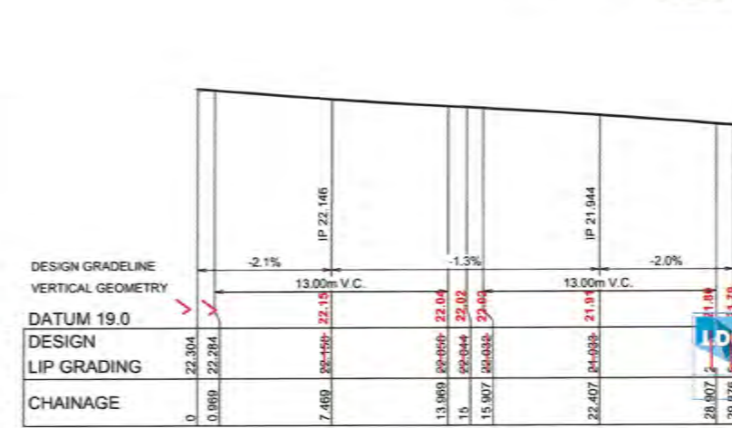
These plans are referred to by certificate no. 15879 approved by:
Christopher Louis Wanbe
 Accredited Certifier
 Registration No: BPB 0015
 Categories: B1, C1, C2, C3, C4, C5 & C15
 Land Development Certificates
 www.LDC.com.au



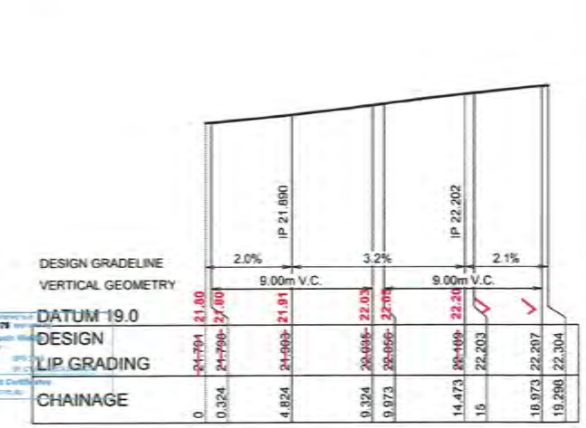
KR 23
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



KR 24
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



KR 25
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



KR 26
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A LENGTH
0	296151.87	6268597.54	264°01'28.02"		
7.63	296142.97	6268596.6		-8.95	14.06
14.06	296143.9	6268587.7	174°01'28.02"		
18.95	296144.41	6268582.84	174°01'28.02"		

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A LENGTH
0	296136.36	6268581.89	354°01'28.02"		
5	296135.84	6268586.83	354°01'28.02"		
12.03	296134.81	6268595.76		-8.95	14.06
19.06	296126.01	6268594.83	264°01'28.02"		

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A LENGTH
0	295835.5	6268713.77	14°42'08.71"		
14.55	295839.72	6268729.86		24.05	29.1
29.1	295856.26	6268731.59	84°01'28.02"		

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A LENGTH
0	295857.1	6268723.53	264°01'28.02"		
9.65	295846.13	6268722.39		-15.96	19.3
19.3	295843.33	6268711.72	194°42'08.71"		

1:50 (AT A1)
1:100 (AT A3)



1:200 (AT A1)
1:400 (AT A3)



AMENDMENT	DES	DRN	CKD	APR	DATE
C					26/09/19
B					12/08/19
A					02/09/19

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4365 PENRITH WESTFIELD NSW 2750
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AZIMUTH:
AHD
DATUM:
MGA
ORIGIN:



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ISSUE FOR CONSTRUCTION APPROVAL

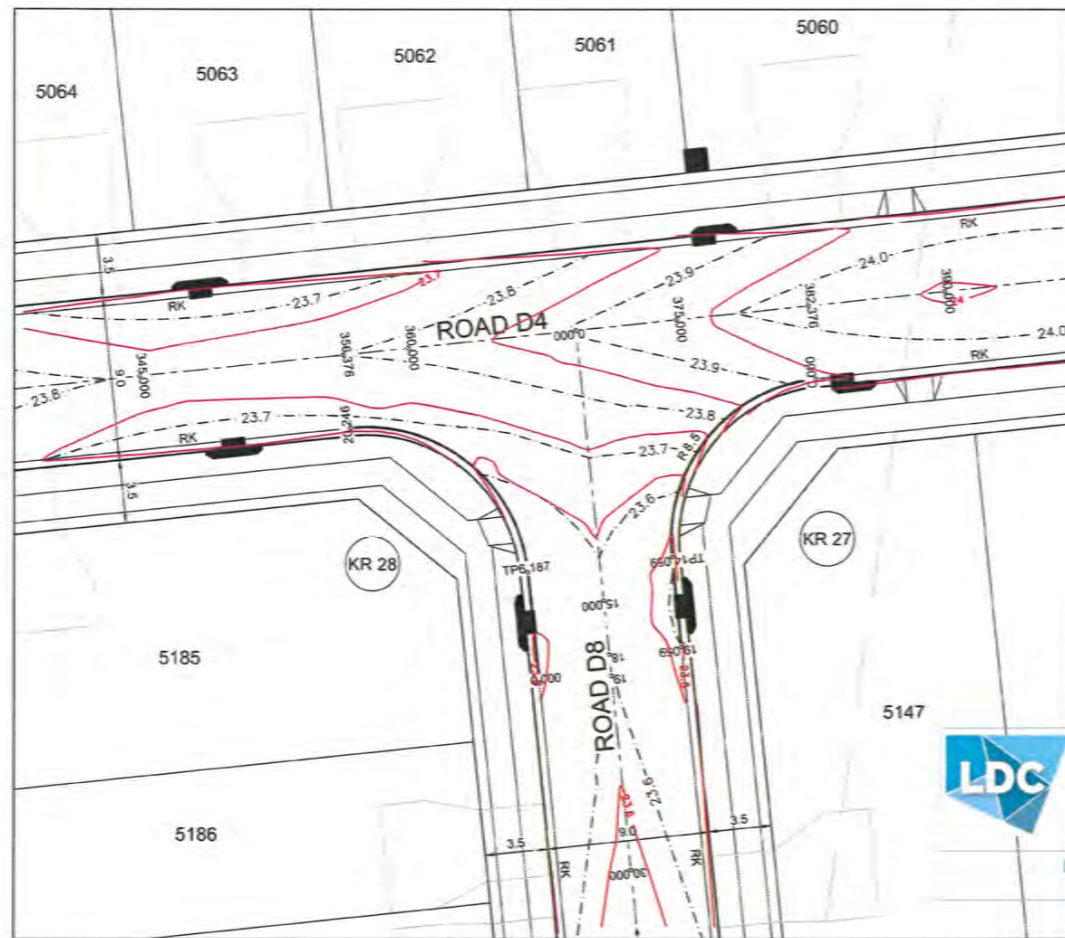
NEWPARK
PRECINCT 5
KERB RETURNS
SHEET 5

PLAN No: 998511/CC433

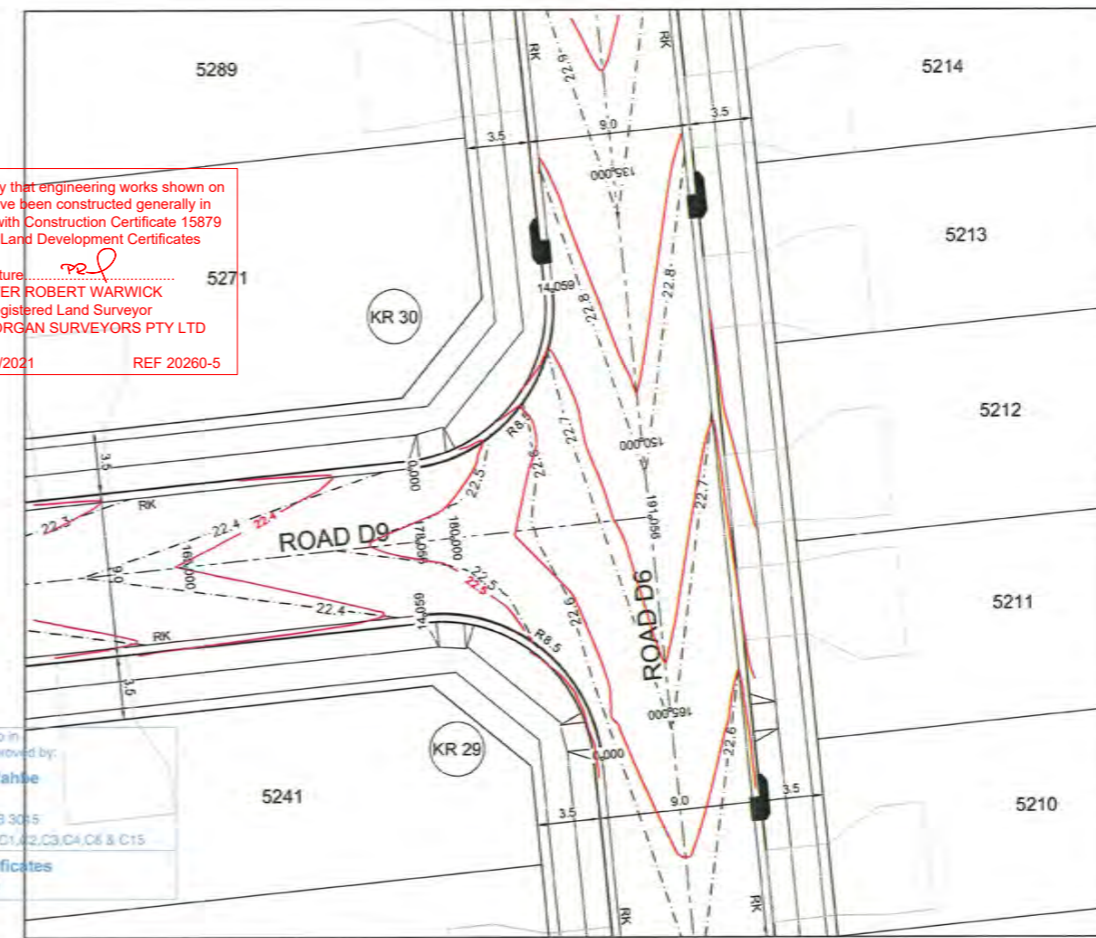
FILE No: 998511CC433

SHEET SIZE: A1 ORIGINAL

DESIGN LEVELS AND SETOUT ARE TO LIP OF KERB



KERB RETURN 27 AND 28 PLAN
SCALE 1:200



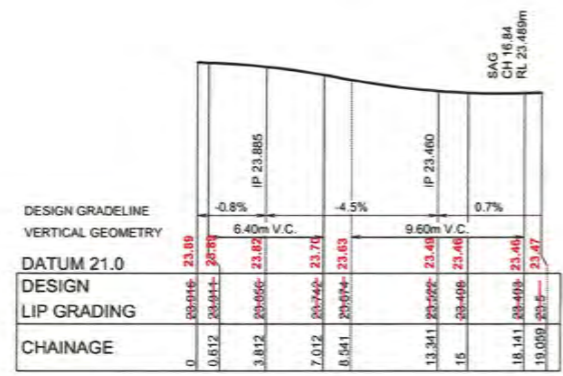
KERB RETURN 29 AND 30 PLAN
SCALE 1:200

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: *[Signature]*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

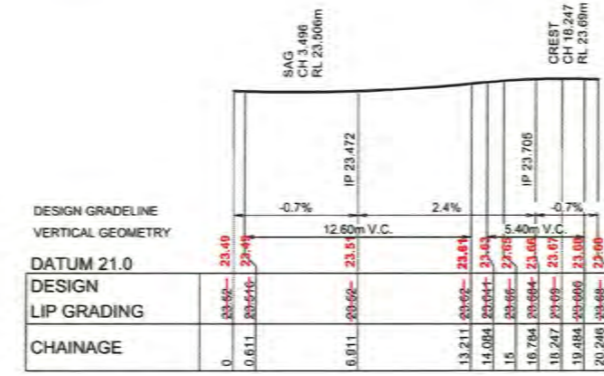
DATE 14/07/2021 REF 20260-5

These plans are referred to in certificate no. 15879 approved by:
Christopher Louis Wahle
 Accredited Certifier
 Registration No: BPB 3005
 Categories: B1, C1, A2, C3, C4, C6 & C15
 Land Development Certificates
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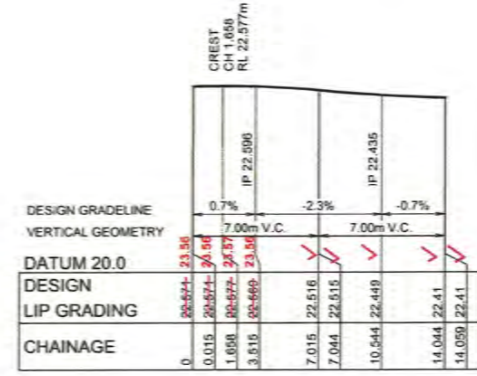
KR 27
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RADI/SPIRAL	A.LENGTH
0	296227.45	6268955.45	264°01'28.02"		
7.02	296213.55	6268934.52		-8.95	14.06
14.06	296219.48	6268955.61	174°01'28.02"		
19.06	296220	6268950.64	174°01'28.02"		



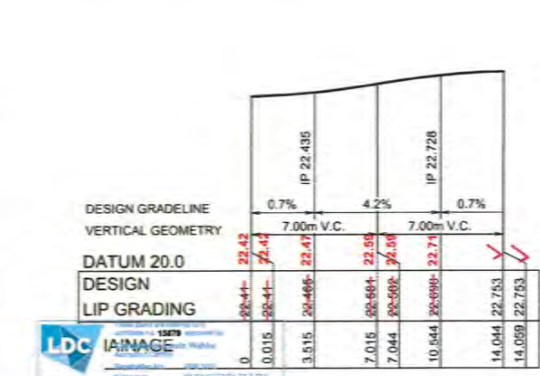
KR 28
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RADI/SPIRAL	A.LENGTH
0	296212.07	6268956.62	354°01'28.02"		
8.19	296211.43	6268954.77	354°01'28.02"		
13.22	296210.5	6268963.67		-8.95	14.06
20.25	296201.59	6268862.74	264°01'28.02"		



KR 29
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RADI/SPIRAL	A.LENGTH
0	296208.25	6268952.56	354°01'28.02"		
7.03	296207.32	6268951.47		-8.95	14.06
14.06	296208.42	6268950.53	264°01'28.02"		



KR 30
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RADI/SPIRAL	A.LENGTH
0	296207.57	6268951.59	84°01'28.02"		
7.03	296206.67	6268951.52		-8.95	14.06
14.06	296205.54	6268952.42	354°01'28.02"		



J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

CLIENT: **WINTEN PROPERTY GROUP**

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

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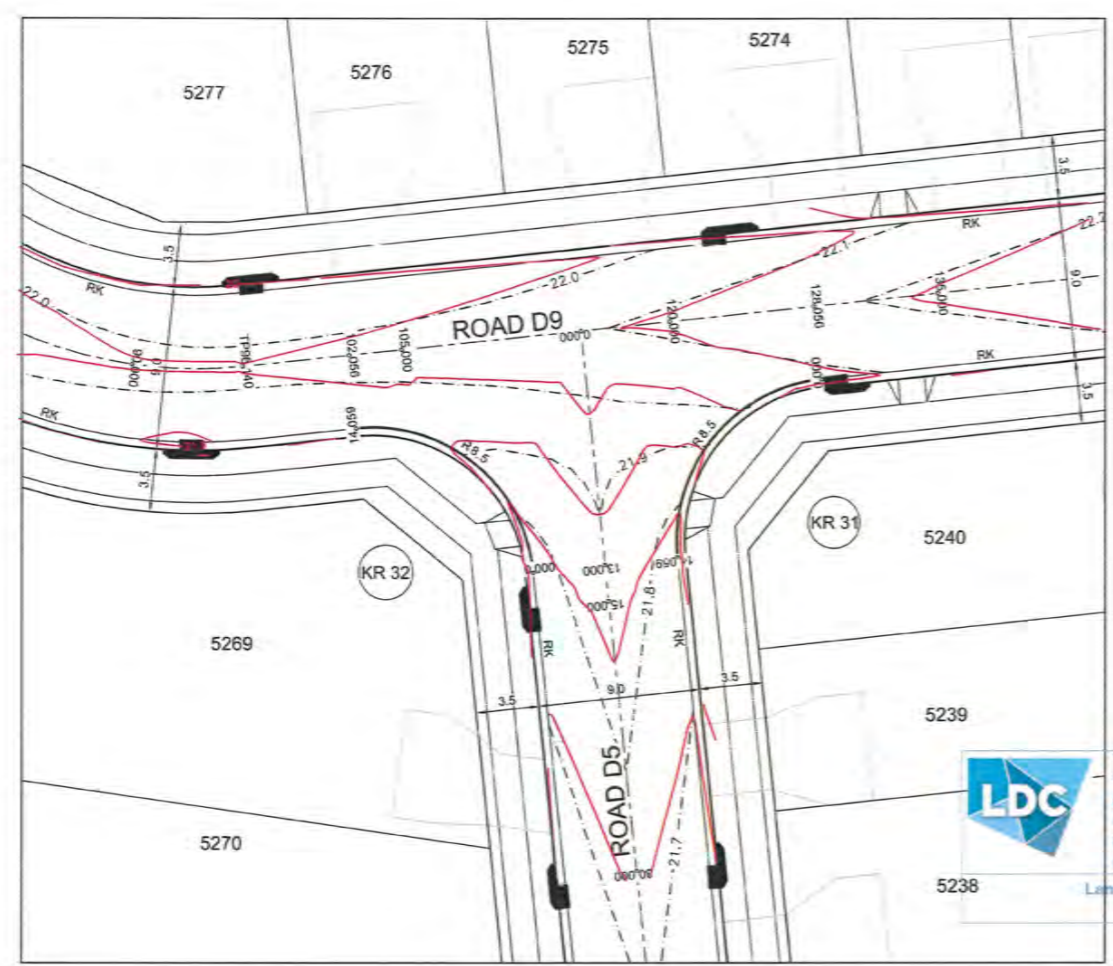
NEWPARK PRECINCT 5
 KERB RETURNS
 SHEET 6

PLAN No:	998511/CC434	C
FILE No:	998511CC434	
SHEET SIZE:	A1 ORIGINAL	

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AMENDMENT	DES	DRN	CKD	APR	DATE
C					26/09/19
B					12/09/19
A					02/09/19

DESIGN LEVELS AND SETOUT ARE TO LIP OF KERB

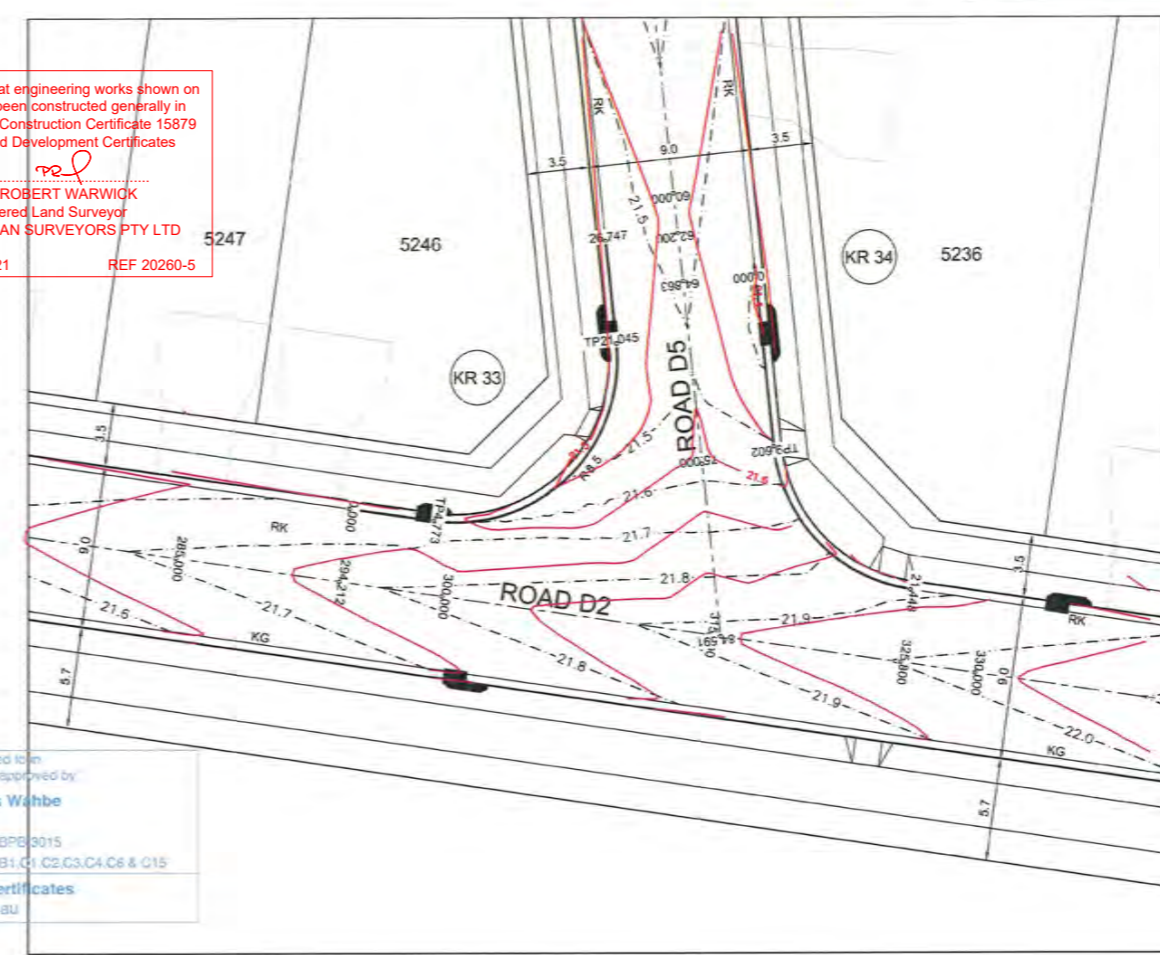


KERB RETURN 31 AND 32 PLAN
SCALE 1:200

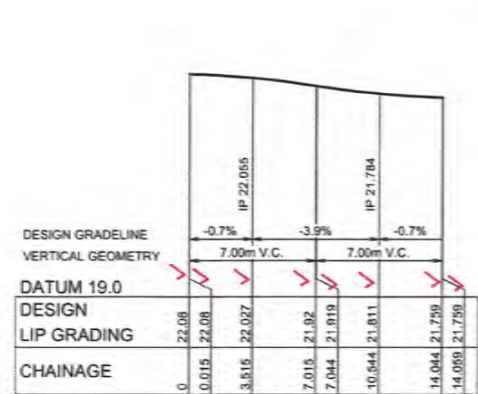
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

These plans are referred to in certificate no. 15879 approved by:
Christopher Louis Wuhbe
 Accredited Certifier
 Registration No: BPE3015
 Categories: B1, C1, C2, C3, C4, C6 & C15
 Land Development Certificates
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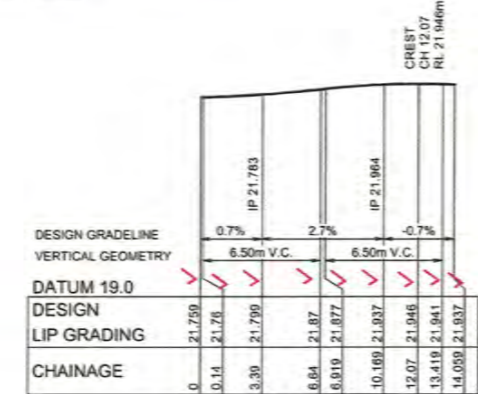


KERB RETURN 33 AND 34 PLAN
SCALE 1:200



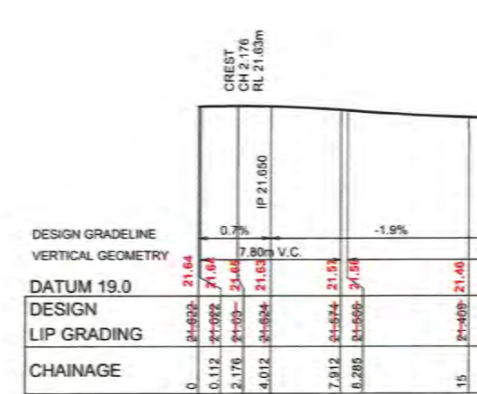
KR 31
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	296008.66	6268505.33	264°01'28.02"		
7.03	295999.79	6268504.4		-8.95	14.06
14.06	296000.72	6268495.5	174°01'28.02"		



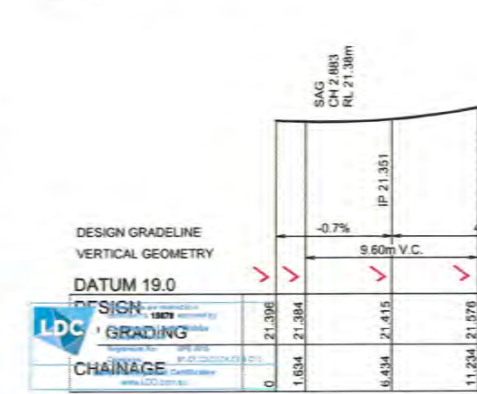
KR 32
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295992.66	6268494.65	354°01'28.02"		
7.03	295991.73	6268503.55		-8.95	14.06
14.06	295982.83	6268502.62	264°01'28.02"		



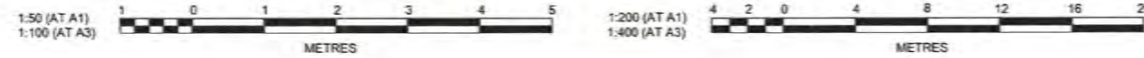
KR 33
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295983.48	6268430.94	86°11'33.75"		
4.77	295985.2	6268430.26	86°11'33.75"		
12.91	295999.57	6268428.62		-8.95	16.27
21.94	295998.35	6268449.05	354°01'28.02"		
26.75	295997.78	6268445.72	354°01'28.02"		



KR 34
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	296006.12	6268443.91	174°01'28.02"		
9.6	296007.12	6268434.36	174°01'28.02"		
15.53	296007.84	6268427.43		-8.95	11.65
21.45	296014.74	6268426.44	86°11'33.75"		



CLIENT:

WINTEN PROPERTY GROUP

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

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NEWPARK PRECINCT 5
KERB RETURNS
SHEET 7

PLAN No: 998511/CC435
 FILE No: 998511CC435
 SHEET SIZE: A1 ORIGINAL

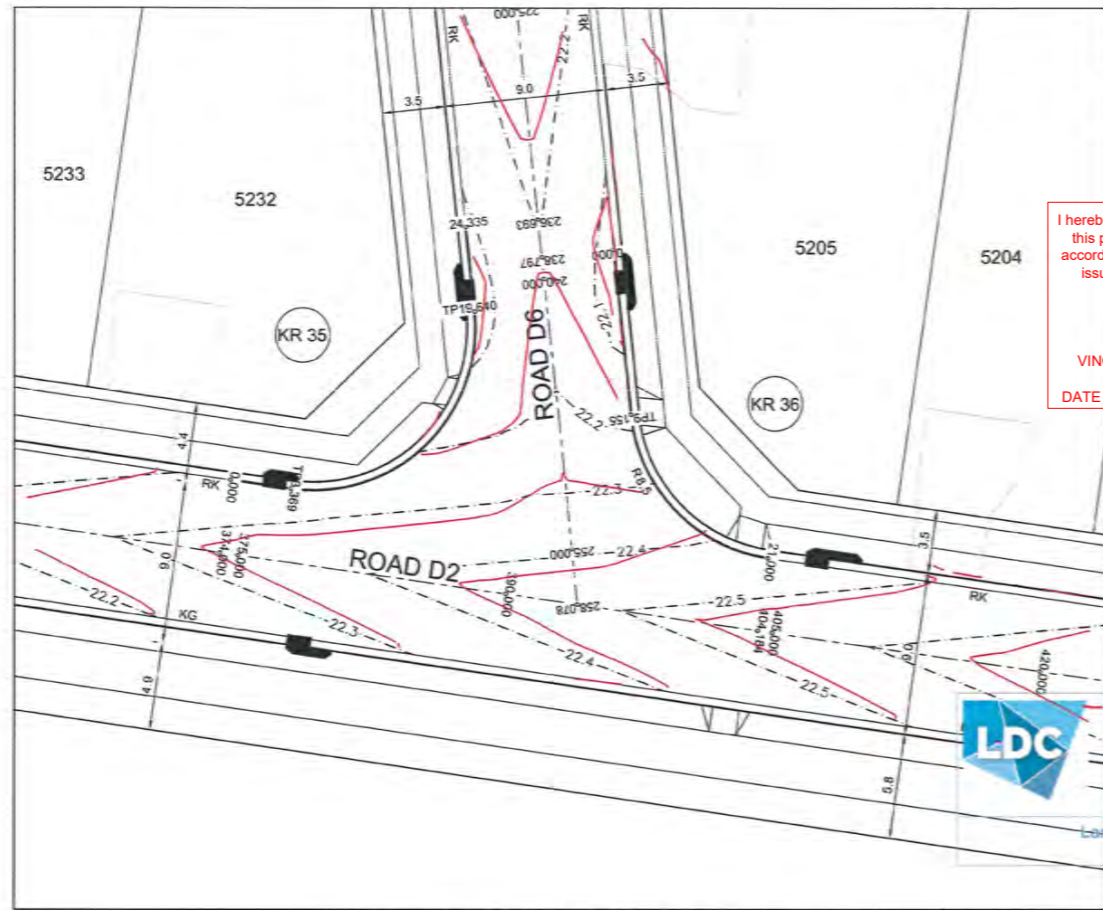
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 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

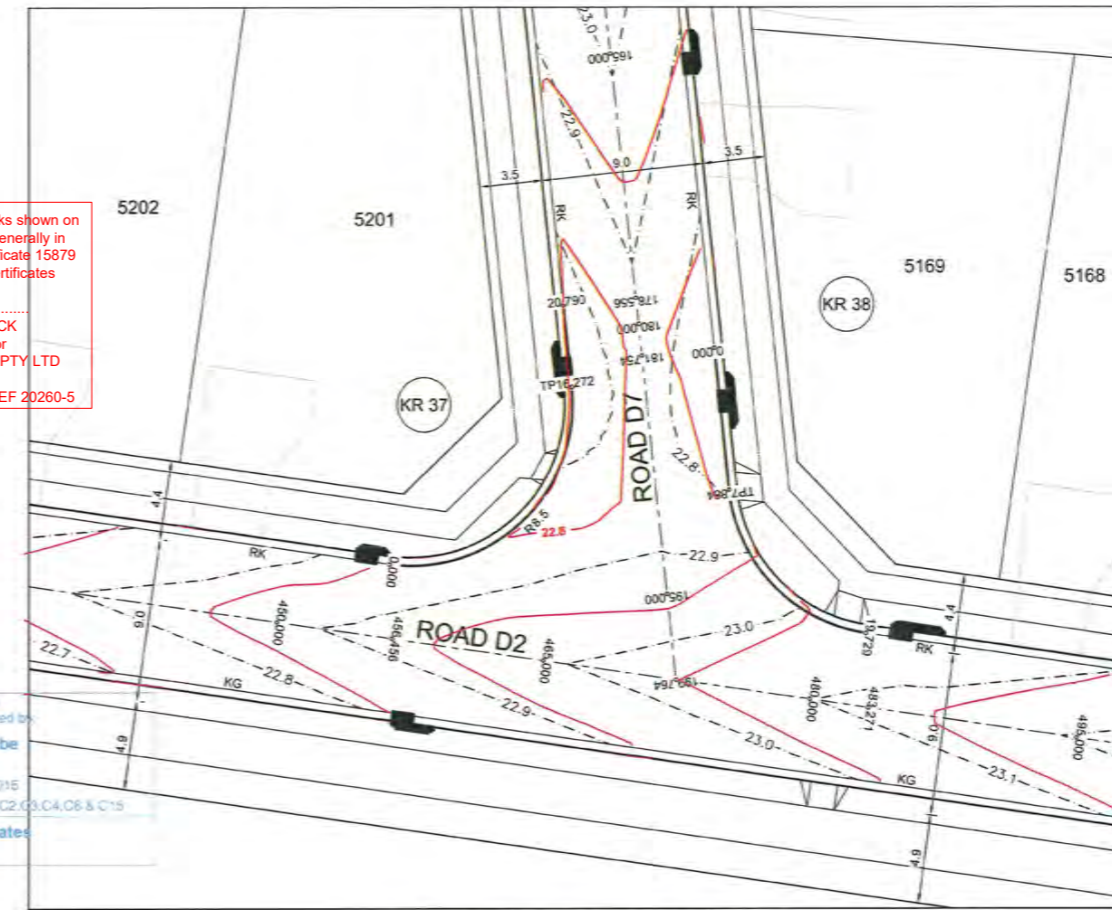
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AMENDMENT	DES	DRN	CKD	APR	DATE	
C	ISSUE FOR CONSTRUCTION APPROVAL	DG	VS	RO	MS	26/09/19
B	ISSUE FOR CAA APPROVAL	DG	NM/JM	RO	MS	12/09/19
A	ISSUE FOR CONSTRUCTION APPROVAL	DG	JM	RO	MS	02/09/19

DESIGN LEVELS AND SETOUT ARE TO LIP OF KERB



KERB RETURN 35 AND 36 PLAN
SCALE 1:200



KERB RETURN 37 AND 38 PLAN
SCALE 1:200

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 14/07/2021 REF 20260-5

LDC
 These plans are referred to in certificate no. 15879 approved by
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPB 9015
 Categories: B1, C1, C2, C3, C4, C6 & C15
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CREST
CH 4.787
RL 22.243m

SAG
CH 20.823
RL 22.088m

DESIGN GRADELINE	0.7%	-2.0%	0.7%
VERTICAL GEOMETRY	12.00m V.C.		6.00m V.C.
DATUM 19.0	✓	✓	✓
DESIGN LIP GRADING	22.221	22.232	22.075
CHAINAGE	0	12.00	18.00

KR 35
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPHAL	A.LENGTH
0	296062.45	6268419.57	98°11'33.75"		
3.37	296065.79	6268419.09	98°11'33.75"		
11.5	296077.16	6268417.45		-8.95	16.27
19.64	296075.96	6268428.88	354°01'28.02"		
24.34	296075.47	6268433.95	354°01'28.02"		

CREST
CH 0.935
RL 22.083m

SAG
CH 20.823
RL 22.088m

DESIGN GRADELINE	-0.7%	3.5%	0.7%
VERTICAL GEOMETRY	10.00m V.C.		10.00m V.C.
DATUM 19.0	✓	✓	✓
DESIGN LIP GRADING	22.07	22.085	22.432
CHAINAGE	0	10.00	20.00

KR 36
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPHAL	A.LENGTH
0	296083.75	6268432.3	174°01'28.02"		
9.15	296084.7	6268423.19	174°01'28.02"		
15.08	296085.43	6268416.26		-8.95	11.85
21	296092.33	6268415.27	98°11'33.75"		

CREST
CH 3.919
RL 22.858m

SAG
CH 17.049
RL 22.744m

DESIGN GRADELINE	0.7%	-1.6%	1.0%
VERTICAL GEOMETRY	12.00m V.C.		8.00m V.C.
DATUM 20.0	✓	✓	✓
DESIGN LIP GRADING	22.81	22.80	22.74
CHAINAGE	0	12.00	20.00

KR 37
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPHAL	A.LENGTH
0	296143.37	6268407.92	98°11'33.75"		
8.14	296154.74	6268406.28		-8.95	16.27
16.27	296153.55	6268417.71	354°01'28.02"		
20.79	296153.08	6268422.2	354°01'28.02"		

CREST
CH 3.045
RL 22.710m

SAG
CH 17.049
RL 22.744m

DESIGN GRADELINE	-0.7%	3.1%	0.7%
VERTICAL GEOMETRY	6.00m V.C.		6.00m V.C.
DATUM 20.0	✓	✓	✓
DESIGN LIP GRADING	22.74	22.75	23.04
CHAINAGE	0	6.00	12.00

KR 38
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPHAL	A.LENGTH
0	296161.46	6268419.87	174°01'28.02"		
7.88	296162.29	6268412.02	174°01'28.02"		
13.81	296163.01	6268405.09		-8.95	11.85
19.73	296169.91	6268404.1	98°11'33.75"		



CLIENT:

WINTAN PROPERTY GROUP

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

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NEWPARK PRECINCT 5
KERB RETURNS
SHEET 8

PLAN No: 998511/CC436
 FILE No: 998511CC436
 SHEET SIZE: A1 ORIGINAL

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4365 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.wyndhamprince.com.au E jw@jwprince.com.au

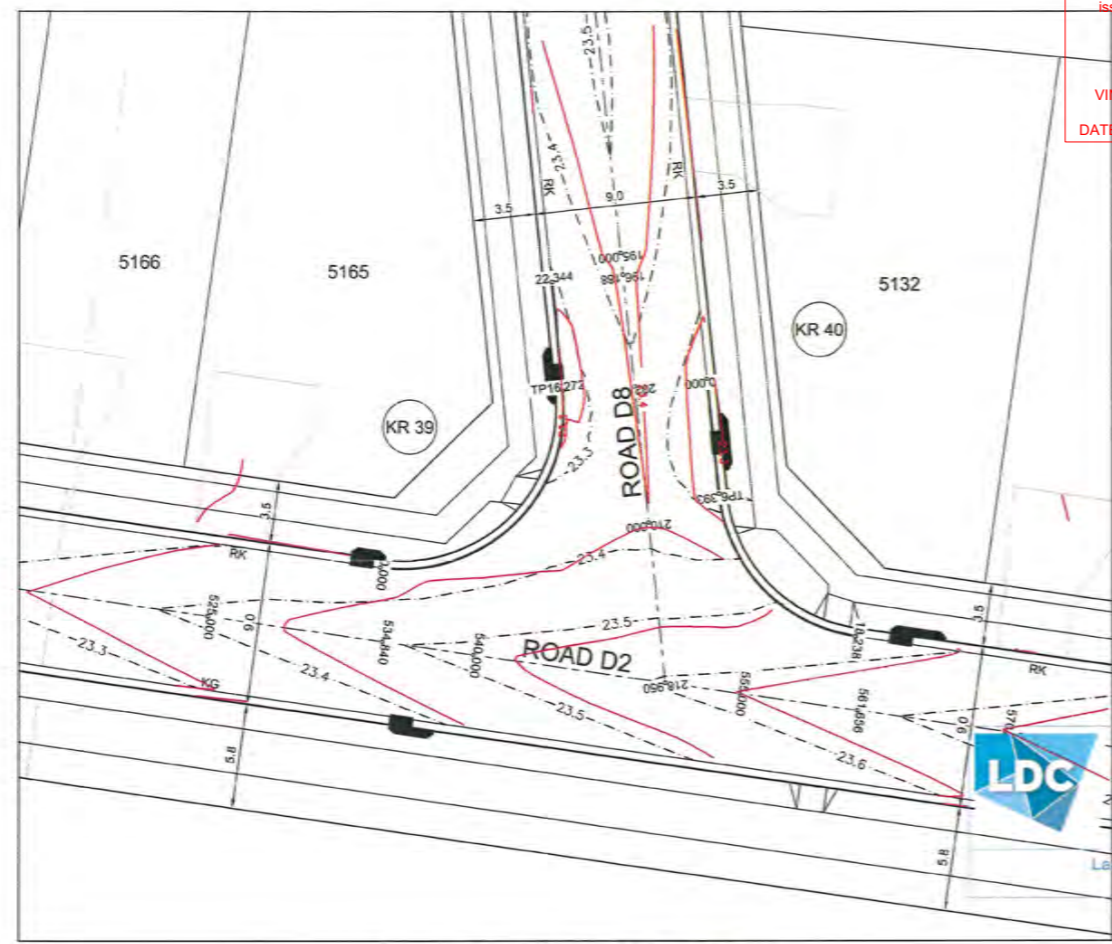
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AMENDMENT	DES	DRN	CKD	APR	DATE	
C	ISSUE FOR CONSTRUCTION APPROVAL	DG	VS	RO	MS	26/09/19
B	ISSUE FOR CAA APPROVAL	DG	NM/JM	RO	MS	12/09/19
A	ISSUE FOR CONSTRUCTION APPROVAL	DG	JM	RO	MS	02/09/19

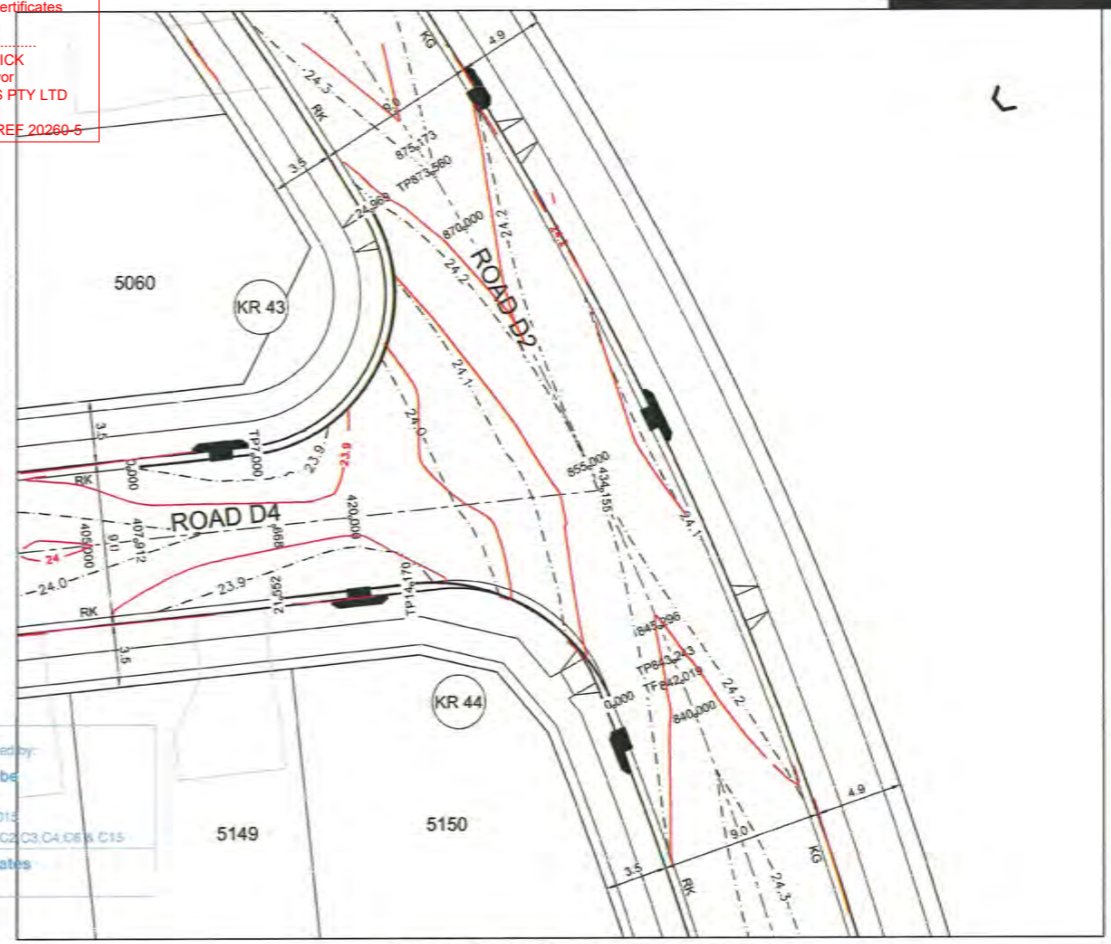
DESIGN LEVELS AND SETOUT ARE TO LIP OF KERB

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: *[Signature]*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5



KERB RETURN 39 AND 40 PLAN
SCALE 1:200



KERB RETURN 43 AND 44 PLAN
SCALE 1:200

These plans are referred to in certificate no. 15879 approved by Christopher Louis Wahbe Accredited Certifier
 Registration No: BPS 9015
 Categories: B1, C1, C2, C3, C4, C6 & C15
 Land Development Certificates
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CREST
CH 17.07
RL 23.344m

SAG
CH 17.27
RL 23.261m

DESIGN GRADELINE	0.7%	-1.3%	1.0%
VERTICAL GEOMETRY	11.00m V.C.	11.00m V.C.	
DATUM 20.0	23.36	23.37	23.33
DESIGN LIP GRADING	23.36	23.37	23.33
CHAINAGE	0	4.102	11.000

KR 39
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	296220.95	6268396.75	98°11'33.75"		
8.14	296232.33	6268395.11		-8.95	16.27
16.27	296231.13	6268405.54	354°01'28.02"		
22.34	296230.5	6268412.58	354°01'28.02"		

SAG
CH 386
RL 23.217m

DESIGN GRADELINE	-1.3%	3.6%	0.7%
VERTICAL GEOMETRY	5.00m V.C.	5.00m V.C.	
DATUM 20.0	23.26	23.24	23.45
DESIGN LIP GRADING	23.26	23.24	23.45
CHAINAGE	0	2.08	11.179

KR 40
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	296239.2	6268407.21	174°01'28.02"		
6.39	296239.87	6268400.85	174°01'28.02"		
12.32	296240.6	6268393.92		-8.95	11.85
18.24	296247.5	6268392.93	98°11'33.75"		

SAG
CH 6.02
RL 23.807m

DESIGN GRADELINE	-1.5%	2.4%	2.0%
VERTICAL GEOMETRY	14.33m V.C.	9.55m V.C.	
DATUM 21.0	23.87	23.89	24.07
DESIGN LIP GRADING	23.87	23.89	24.07
CHAINAGE	0	7.885	14.831

KR 43
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	296252.01	6268616.16	84°01'28.02"		
6.93	296258.9	6268616.88	84°01'28.02"		
15.91	296272.86	6268618.34		-8.95	17.96
24.88	296265.65	6268630.38	329°04'48.19"		

SAG
CH 17.63
RL 23.826m

DESIGN GRADELINE	-0.7%	-2.7%	0.7%
VERTICAL GEOMETRY	3.00m V.C.	9.00m V.C.	
DATUM 21.0	24.12	24.10	23.87
DESIGN LIP GRADING	24.12	24.10	23.87
CHAINAGE	0	2.888	13.664

KR 44
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	296279.21	6268602.85	338°10'17.25"		
7.09	296276.14	6268610.54		-10.95	14.17
14.17	296267.91	6268609.68	264°01'28.02"		
21.55	296260.57	6268608.91	264°01'28.02"		



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AMENDMENT	DES	DRN	CKD	APR	DATE	
C	ISSUE FOR CONSTRUCTION APPROVAL	DG	YS	RO	MS	25/09/19
B	ISSUE FOR CAA APPROVAL	DG	NM/AM	RO	MS	12/09/19
A	ISSUE FOR CONSTRUCTION APPROVAL	DG	JM	RO	MS	02/09/19

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4365 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jw@jwprince.com.au

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN: THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.



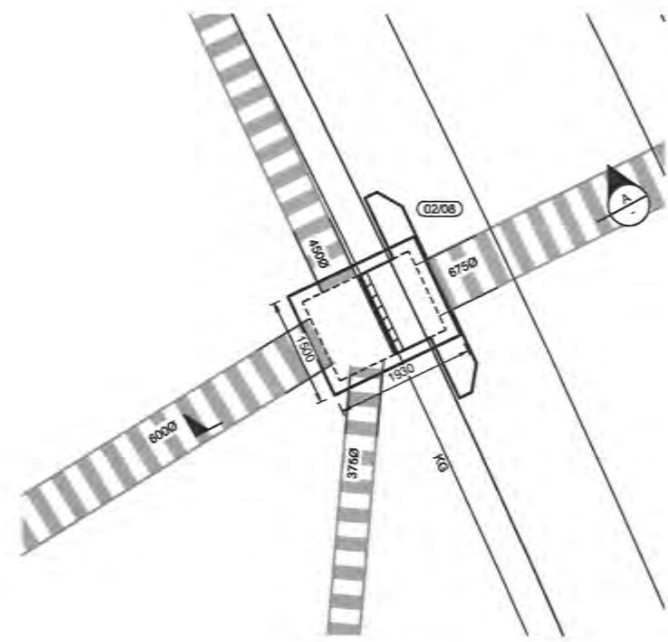
CLIENT: WINTEN PROPERTY GROUP

ISSUE FOR CONSTRUCTION APPROVAL

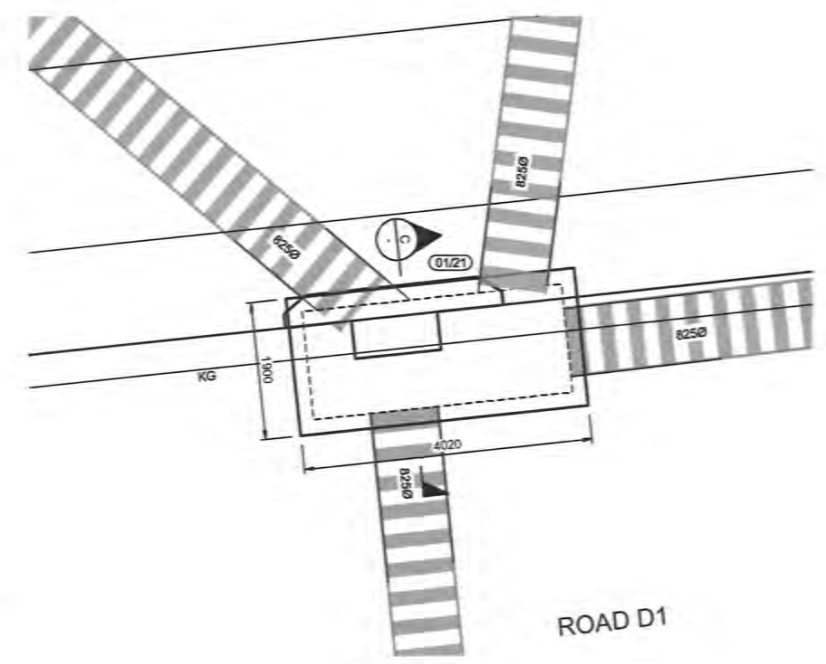
NEWPARK PRECINCT 5
KERB RETURNS
SHEET 9

PLAN No: 998511/CC437 **C**
 FILE No: 998511CC437
 SHEET SIZE: A1 ORIGINAL

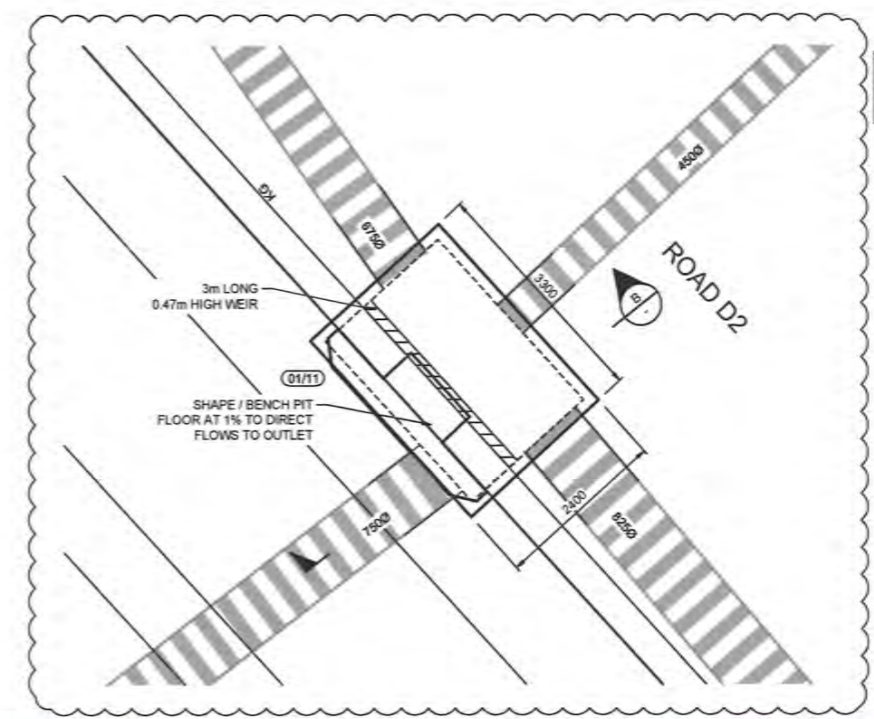
SUBJECT TO
STRUCTURAL DESIGN
AND CERTIFICATION



PIT 02/08
PLAN
SCALE 1:50

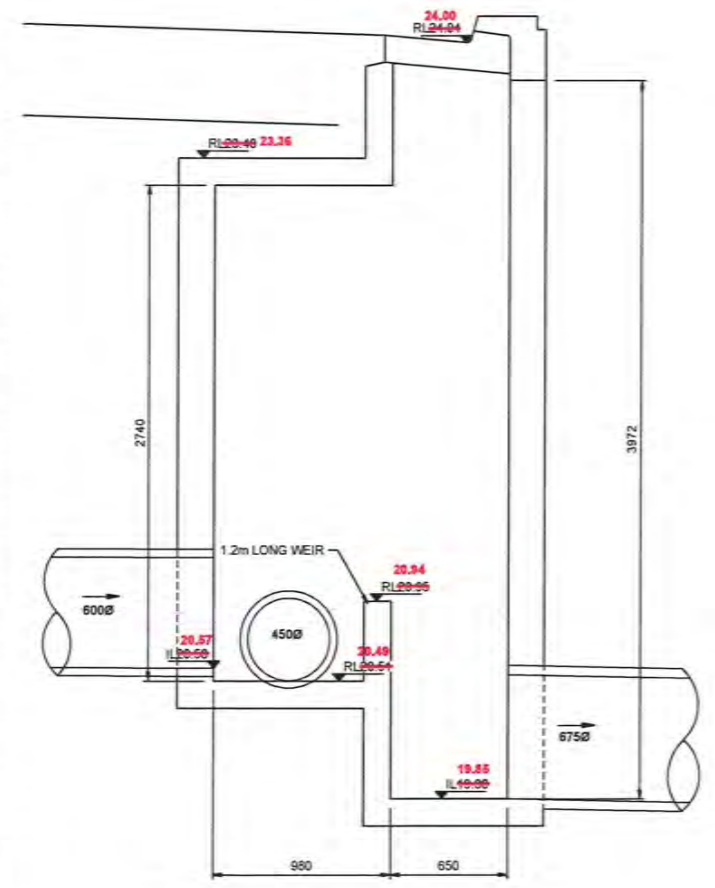


PIT 01/22
PLAN
SCALE 1:50

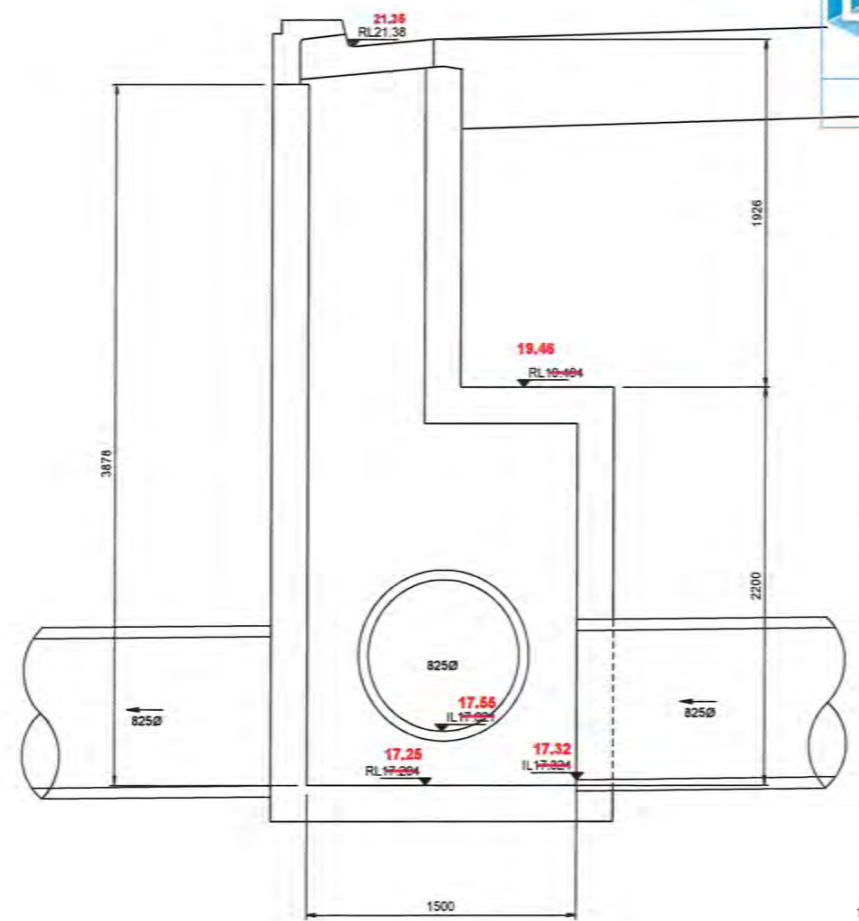


PIT 01/11
PLAN
SCALE 1:50

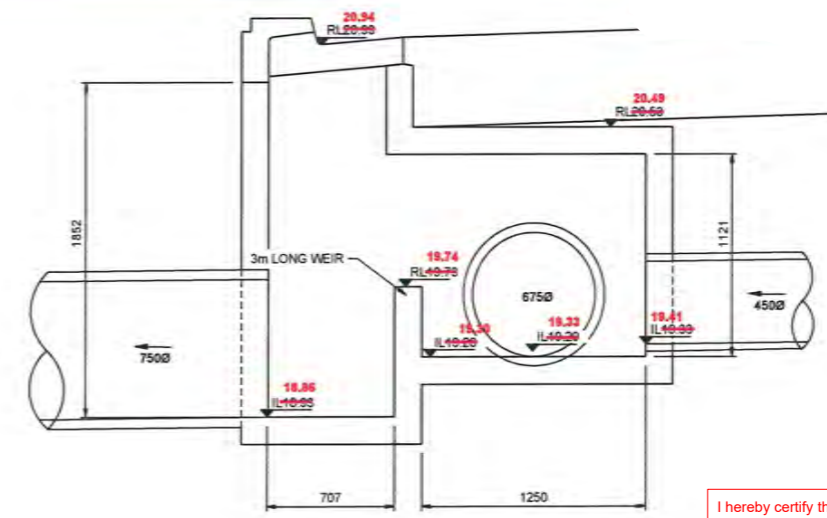
LDC
These plans are referred to in certificate no. **15879** approved by:
Christopher Louis Wahbe
Accredited Certifier
Registration No: BPS 3015
Categories: B1, C1, C2, C3, C4, D6 & C15
Land Development Certificates
www.LDC.com.au



SECTION A
SCALE 1:50



SECTION C
SCALE 1:20



SECTION B
SCALE 1:20

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates
Signature: *Peter Robert Warwick*
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 14/07/2021 REF 20260-5



Plotfile: 26 September, 2019 2:45:07 PM File Name: J:\098511\CC438 - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCTS\PRECINCT 5 DOCUMENTATION\998511CC438.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
C	DG	VS	RO	MS	26/09/19
B	DG	NM/JM	RO	MS	12/09/19
A	DG	JM	RO	MS	02/09/19

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
PO Box 4366 PENRITH WESTFIELD NSW 2150
P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

AZIMUTH:
AND
DATUM:
MGA:
ORIGIN:

CLIENT:
WINTEN PROPERTY GROUP
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ISSUE FOR CONSTRUCTION APPROVAL
NEWPARK PRECINCT 5 SPECIAL PIT DETAILS
PLAN No: 998511/CC438 **C**
FILE No: 998511CC438
SHEET SIZE: A1 ORIGINAL

LEGEND

--- PROPOSED CATCHMENT

→ FLOW DIRECTION

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

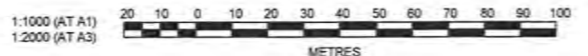
Signature: 
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE: 14/07/2021 REF: 20260-5



Three plans are referred to in certificate no. 15879 approved by:

LDC Christopher Louis Wahbe
 Accredited Identifier
 Registration No: BPS 3015
 Categories: B1, C1, C2, C3, C4, C8 & C15
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CLIENT:

 **WINTEN PROPERTY GROUP**

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ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5 CATCHMENT PLAN

PLAN No: 998511/CC439 **D**

FILE No: 998511CC439

SHEET SIZE: A1 ORIGINAL


J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

NO. 304 4366 PENRITH WESTFIELD NSW 2150
 P 02 4729 5300 W www.jwpr.com.au E jwpr@jwpr.com.au

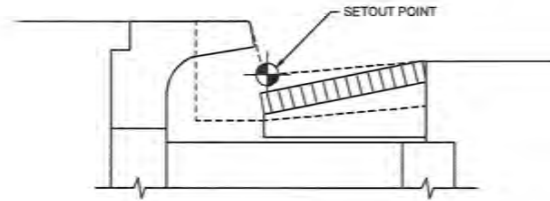
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AMENDMENT	DES	DRN	CKD	APR	DATE
D CATCHMENT BOUNDARIES AMENDED	DG	DG	MP	MS	23/04/20
C ISSUE FOR CONSTRUCTION APPROVAL	DG	VS	RO	MS	28/09/19
B ISSUE FOR CAA APPROVAL	DG	NMUM	RO	MS	12/09/19
A ISSUE FOR CONSTRUCTION APPROVAL	DG	JM	RO	MS	02/09/19

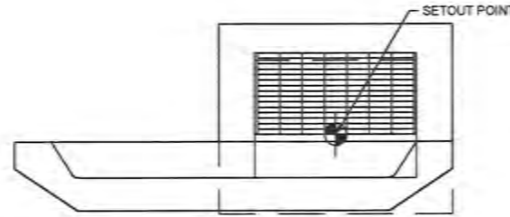
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: 
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

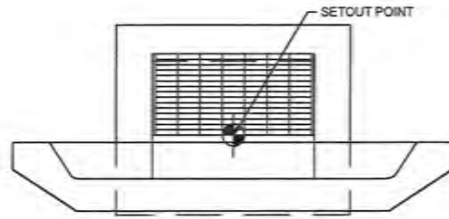
DATE 14/07/2021 REF 20260-5



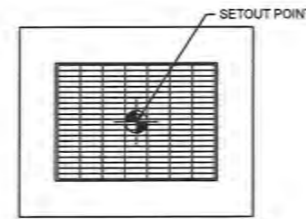
SETOUT DETAIL KERB INLET PIT (LInTEL)
SCALE 1:10



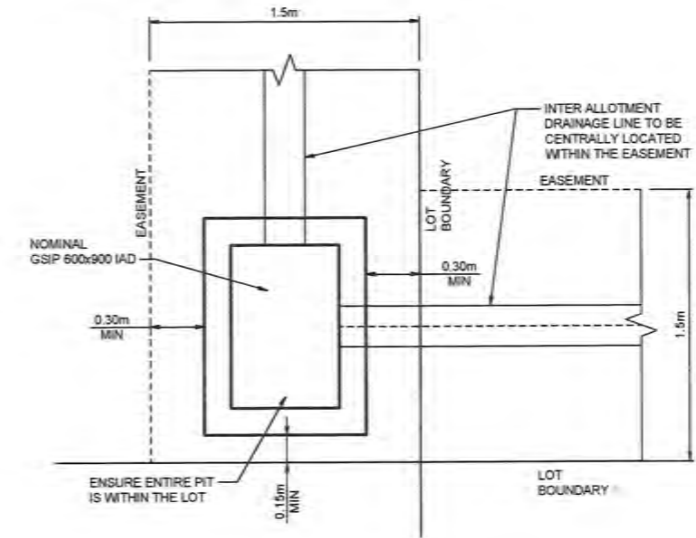
SETOUT DETAIL KERB INLET PIT (LInTEL)
SCALE 1:20



SETOUT DETAIL KERB INLET PIT (SAG)
SCALE 1:20

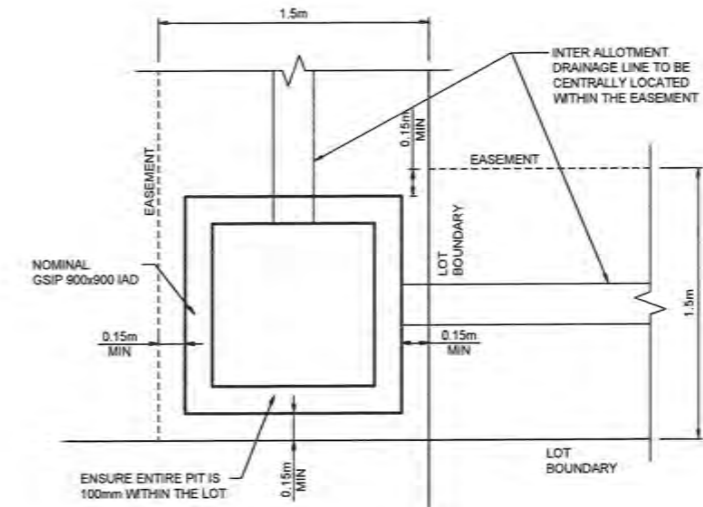


GRATED SURFACE INLET PIT (GSIP)
SCALE 1:20



TYPICAL INTER-ALLOTMENT SETOUT FROM LOT BOUNDARY (600 x 900 GSIP)

SCALE 1:20




TYPICAL INTER-ALLOTMENT SETOUT FROM LOT BOUNDARY (900 x 900 GSIP)

SCALE 1:20

LDC These plans are referred to in certificate no. **15879** approved by:
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPB 3015
 Categories: B1,C1,C2,C3,C4,C6 & C15
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CLIENT:  WINTAN PROPERTY GROUP	ISSUE FOR CONSTRUCTION APPROVAL	
	NEWPARK PRECINCT 5 PIT DETAILS	PLAN No: 998511/CC441 C
<small>THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.</small>	FILE No: 998511CC441 SHEET SIZE: A1 ORIGINAL	

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 info@jwprince.com.au

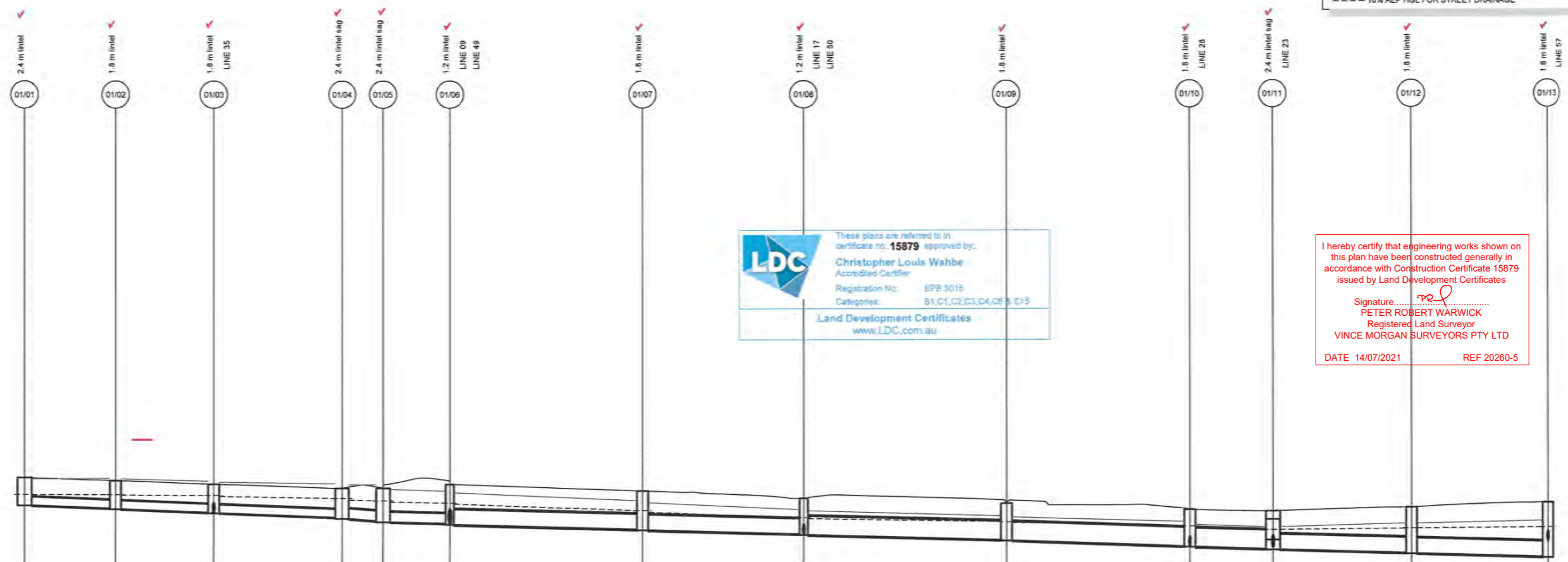
AZIMUTH:
AHD
 DATUM:
MGA
 ORIGIN:

Printed: 20 September 2019 2:51:42 PM File Name: J:\998511\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\PRECINCT 5 DOCUMENTATION\998511CC441.dwg

	DES	DRN	CHKD	APR	DATE
C	DG	VS	RO	MS	26/09/19
B	DG	NM/JM	RO	MS	12/09/19
A	DG	JM	RO	MS	02/09/19
AMENDMENT					

Plotted: 23 April, 2020 4:23:02 PM File Name: J:\998511\CC42 - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 5 DOCUMENTATION\998511CC42.dwg

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



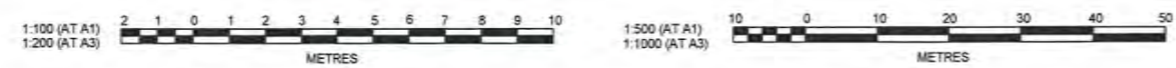
These plans are referred to in certificate no. **15879** approved by:
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: EPR 3015
 Categories: B1,C1,C2,C3,C4,C5 & C15
 Land Development Certificates
 www.LDC.com.au

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates
 Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

WAE	0	19.682	41.436	69.658	78.666	93.355	135.74	171.177	216.77	256.162	274.491	304.996	335.136
DATUM (m)	14.00												
PEAK FLOW (L/s)	39	58	107	154	184	752	770	942	961	1003	611	551	
PIPE SIZE (mm)	375 ✓	375 ✓	375 ✓	450 ✓	450 ✓	675 ✓	675 ✓	825 ✓	825 ✓	825 ✓	675 ✓	675 ✓	
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ4	RRJ2	RRJ2	RRJ2	RRJ2	
PIPE GRADE (%)	0.7 ✓	0.8 ✓	0.8 ✓	0.5 ✓	0.5 ✓	0.45 ✓	0.45 ✓	0.5 ✓	0.7 ✓	0.7 ✓	0.8 ✓	0.5 ✓	
PIPE COVER MINIMUM	0.80	0.83	0.86	0.92	1.18	0.98	0.84	0.76	0.73	0.75	0.98	1.32	
FULL PIPE VELOCITY (m/s)	0.73	0.87	1.13	1.01	1.16	2.10	2.15	2.12	1.82	1.88	1.92	1.84	
HGL GRADE (%)	0.03	0.09	0.3	0.21	0.3	0.68	0.71	0.31	0.38	0.41	-0.13	-0.13	
HYDRAULIC GRADE LINE	21.762	21.756	21.717	21.591	21.506	21.384	21.043	20.722	20.485	20.342	20.218	20.227	20.266
INVERT LEVEL	21.28	21.11	20.84	20.71	20.56	20.44	20.18	20.04	19.77	19.46	19.34	19.16	18.98
DESIGN SURFACE LEVEL	22.53	22.34	22.18	22.02	21.87	21.58	21.27	20.96	20.62	20.32	20.12	19.12	21.32
ROAD CHAINAGE	170.88	190.86	212.41	240.64	240.26	376.42	334.04	298.60	253.37	213.57	195.32	165.44	136.00
PIPE CHAINAGE	0	19.682	41.436	69.658	78.666	93.355	135.74	171.177	216.77	256.162	274.491	304.996	335.136

LINE 01

⚠ DRAINAGE LONG SECTION UPDATED



AMENDMENT	DES	DRN	CKD	APR	DATE
D DRAINAGE LONG SECTION UPDATED	DG	DG	MP	MS	23/04/20
C ISSUE FOR CONSTRUCTION APPROVAL	DG	VS	RO	MS	26/09/19
B ISSUE FOR CAA APPROVAL	DG	NM/UM	RO	MS	12/09/19
A ISSUE FOR CONSTRUCTION APPROVAL	DG	JM	RO	MS	02/09/19

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
 PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4726 3300 W www.jwprince.com.au E jw@jwprince.com.au

CLIENT:
WINTEN PROPERTY GROUP
 AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:
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ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 1

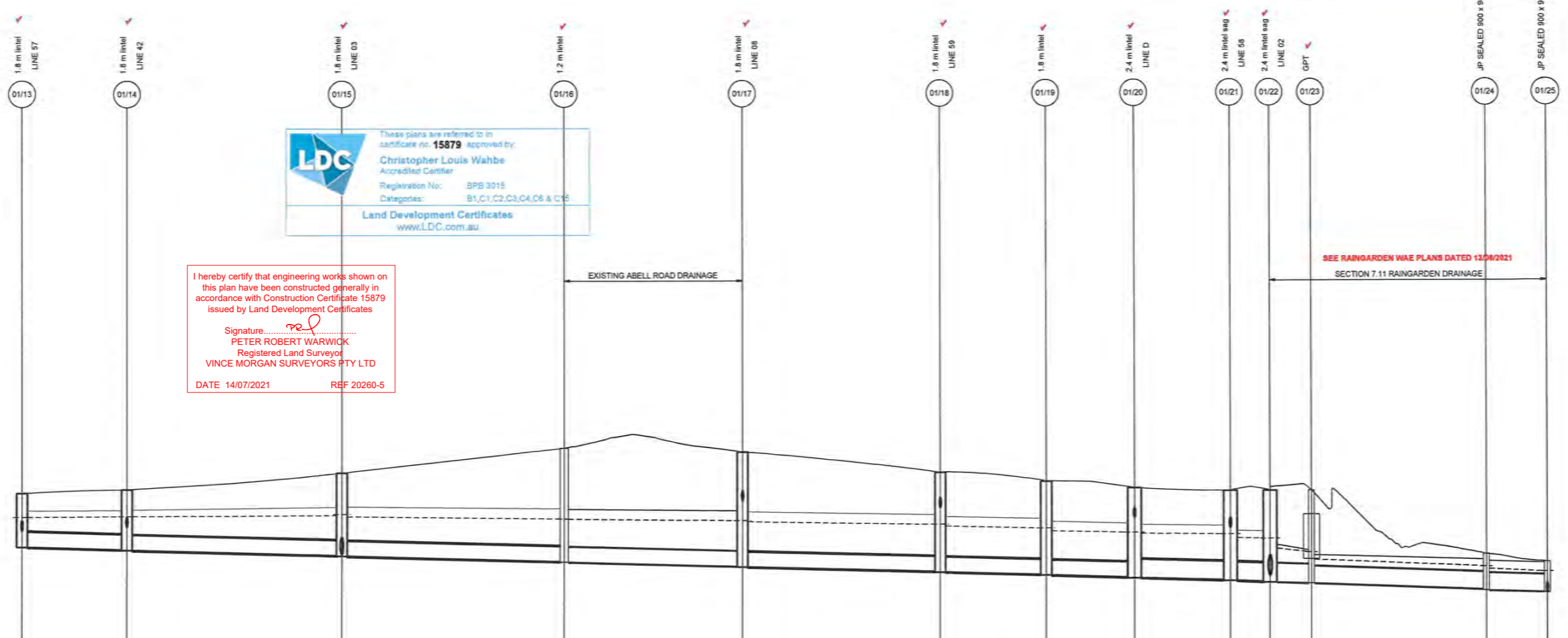
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 FILE No: 998511CC442
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NOTE:
 - - - 1% AEP HGL PROVIDED FOR STREET DRAINAGE AND FOR INFORMATION ONLY.
 - - - 10% AEP HGL FOR STREET DRAINAGE

LDC
 These plans are referred to in certificate no. **15879** Approved by:
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPB 3015
 Categories: B1, C1, C2, C3, C4, C6 & C15
Land Development Certificates
 www.LDC.com.au

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5



	01/13	01/14	01/15	01/16	01/17	01/18	01/19	01/20	01/21	01/22	01/23	01/24	01/25	
DATUM (m)	14.00													
PEAK FLOW (L/s)	535	419	774	655	591	629	619	708	797	2084	1079	1079		
PIPE SIZE (mm)	675 ✓	675 ✓	675 ✓	675 ✓	675 ✓	675 ✓	675 ✓	675 ✓	825 ✓	825 ✓	825 ✓	750	750	
PIPE CLASS	RRJ2	RRJ3	RRJ3	RRJ3	RRJ3	RRJ3	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ3	RRJ2	
PIPE GRADE (%)	0.5 ✓	0.5 ✓	0.5 ✓	0.5 ✓	0.5 ✓	0.5 ✓	0.5 ✓	0.5 ✓	0.5 ✓	0.5 ✓	0.5 ✓	0.7	0.5	
PIPE COVER MINIMUM	1.70	2.02	3.04	4.42	3.76	3.53	3.36	3.12	3.24	3.40	3.90	2.44	2.44	
FULL PIPE VELOCITY (m/s)	1.77	1.36	2.19	1.90	1.70	1.76	1.73	1.32	1.49	3.90	2.44	2.44	2.44	
HGL GRADE (%)	-0.11	-0.09	0.2	0.21	0.3	0.37	0.37	0.18	0.23	1.8	0.8	0.8	0.8	
WAE														
HYDRAULIC GRADE LINE	18.962 18.932	20.266 20.275	20.3 20.306	20.349 20.285	20.185 20.168	20.085 20.035	19.899 19.814	19.725 19.592	19.518 19.466	19.427 19.25	19.229 18.768	18.6 18.265	17.949 17.83	17.716 18.161
INVERT LEVEL	18.962 18.932	18.83 18.814 18.764 18.3	18.64 18.64 18.24	18.3 18.3 18.24	18.07 18.07 18.53	17.83 17.83 17.77	17.65 17.65 17.57	17.45 17.45 17.37	17.22 17.22 17.50	17.29 17.29 17.36	17.33 17.33 17.23	17.15 17.15 17.2	16.923 16.873	16.802 17.161
DESIGN SURFACE LEVEL	21.31 21.31	21.49 21.49	21.31 21.31	21.31 21.31	21.12 21.12	21.20 21.20	21.17 21.17	21.17 21.17	21.50 21.50	21.36 21.36	21.25 21.25	21.31 21.31	18.51	18.161
ROAD CHAINAGE	136.00	113.00	65.00	0.00	26.00	67.82	88.13	105.23	126.90	126.90				
PIPE CHAINAGE	335.136	358.69	407.137	437.302	497.503	542.158	566.101	585.948	607.616	616.616	625.939	665.489	679.652	

Plotted: 23 April, 2020 3:43:49 PM File Name: J:\99851CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SP\PRECINCT 5 DOCUMENTATION\99851CC443.dwg



DRAINAGE LONG SECTION UPDATED

AMENDMENT	DES	DRN	CKD	APR	DATE
D	DG	DG	MP	MS	23/04/20
C	DG	VS	RO	MS	28/09/19
B	DG	NM/UM	RO	MS	12/09/19
A	DG	JM	RO	MS	02/09/19

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 jw@jwprince.com.au

CLIENT:
WINTEN PROPERTY GROUP

AZIMUTH:
 AHD

DATUM:
 MGA

ORIGIN:
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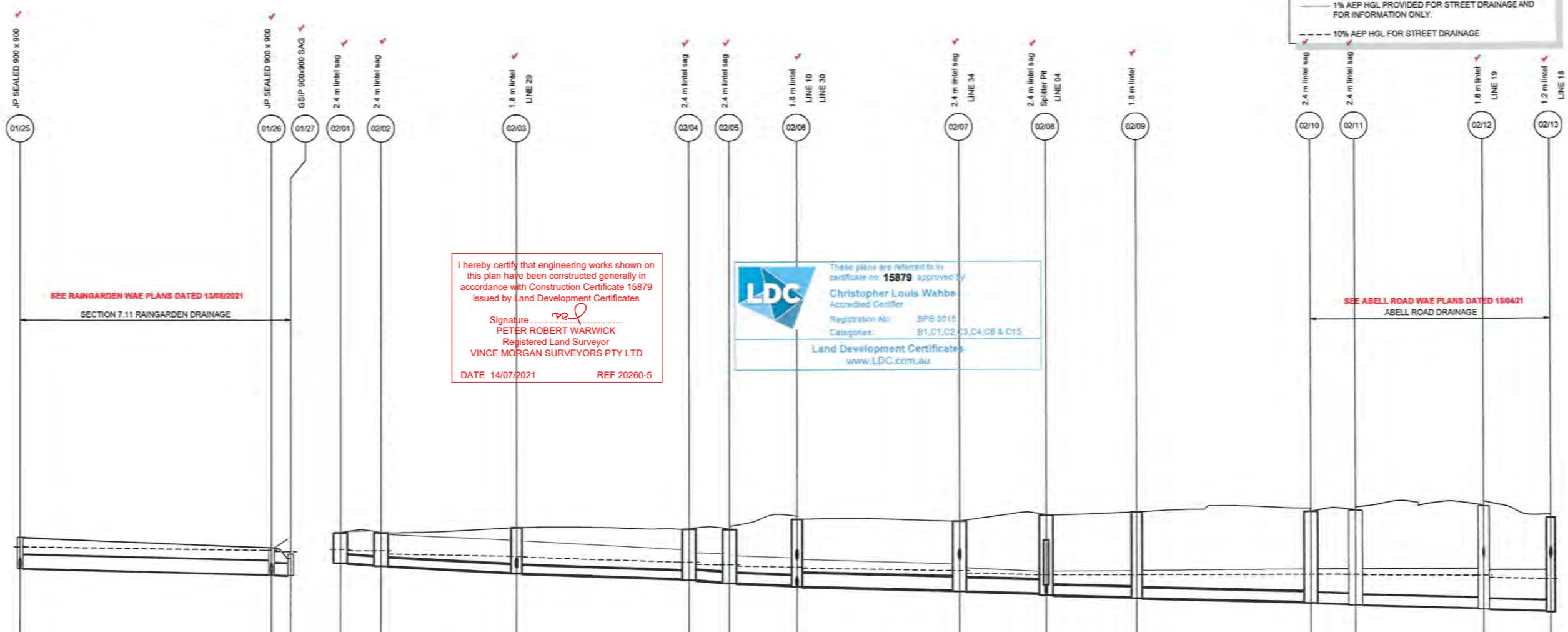
ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 2

PLAN No: **998511CC443** **D**
 FILE No: 998511CC443
 SHEET SIZE: A1 ORIGINAL

Plotted: 23 April, 2020 4:52:37 PM File Name: J:\98511\CC44 - Construction Certificate Approval Plans\PK1\1 CENTRAL PRECINCT 5\PRECINCT 5 DOCUMENTATION\98511CC44.dwg

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



SEE RAINGARDEN WAE PLANS DATED 13/08/2021
 SECTION 7.11 RAINGARDEN DRAINAGE

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates
 Signature: PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

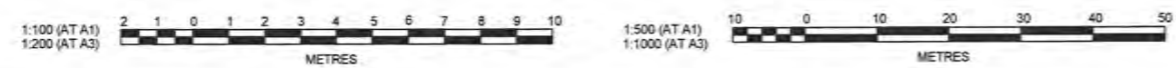
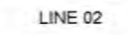
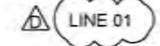
LDC
 These plans are referred to in certificate no. **15879** approved by
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPB 2015
 Categories: B1, C1, C2, C3, C4, C6 & C15
 Land Development Certificates
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SEE ABELL ROAD WAE PLANS DATED 15/04/21
 ABELL ROAD DRAINAGE

DATUM (m)	11.00
PEAK FLOW (L/s)	345
PIPE SIZE (mm)	600 ✓
PIPE CLASS	RRJ2
PIPE GRADE (%)	0.5
PIPE COVER MINIMUM	0.54
FULL PIPE VELOCITY (m/s)	1.22
HGL GRADE (%)	0.27

WAE	
HYDRAULIC GRADE LINE	17.719
INVERT LEVEL	16.802 16.772
DESIGN SURFACE LEVEL	16.161
ROAD CHAINAGE	
PIPE CHAINAGE	679.652

	55	127	152	159	184	403	465	291	239	244	256	303
PIPE SIZE (mm)	375 ✓	375 ✓	375 ✓	450 ✓	450 ✓	600 ✓	600 ✓	450 ✓	450 ✓	450 ✓	450 ✓	450 ✓
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ3	RRJ3	RRJ3	RRJ3	RRJ3
PIPE GRADE (%)	4.0 2.5	1.0 ✓	0.7 0.5	1.0 1.2	0.7 0.6	0.5 ✓	0.5 0.4	0.5 1.0	0.5 1.4	0.7 0.5	0.5 0.8	0.5 0.8
PIPE COVER MINIMUM	1.00	1.07	1.62	1.83	2.08	2.35	2.53	3.06	3.34	3.64	3.88	3.75
FULL PIPE VELOCITY (m/s)	0.74	1.29	1.49	1.05	1.16	1.42	1.65	1.89	1.51	1.54	1.61	1.91
HGL GRADE (%)	0.09	0.4	0.64	0.23	0.33	0.36	0.48	0.03	0.03	0.04	0.1	0.4
HYDRAULIC GRADE LINE	22.555			22.006			21.6	21.484		21.377		21.144
INVERT LEVEL	21.18 ✓ 21.17 21.08 21.29		21.81 21.82 21.80	21.19 21.17 21.12	21.91 21.83 24.44	21.88 21.82 20.38	20.71 20.66 20.80	20.67 20.62 20.64	20.03 20.04 20.64	20.24 20.04 20.31	20.13 20.15 20.1	19.84 19.85 19.80
DESIGN SURFACE LEVEL	23.34 ✓ 23.34 23.29 23.29		23.54 ✓ 23.54 23.49	23.44 23.44 23.44	23.44 23.44 23.44	23.44 23.44 23.44	23.33 23.33 23.33	23.33 23.33 23.33	23.33 23.33 23.33	23.33 23.33 23.33	23.33 23.33 23.33	23.33 23.33 23.33
ROAD CHAINAGE	84.33	84.33	54.10	77.567	86.567	101.607	137.818	157.158	177.334	216.172	228.114	254.654
PIPE CHAINAGE	679.652	739.483	739.725									



AMENDMENT	DES	DRN	CKD	APR	DATE
A	DG	JM	RO	MS	02/09/19
B	DG	NM/JM	RO	MS	12/09/19
C	DG	VS	RO	MS	28/09/19
D	DG	DG	MP	MS	23/04/20

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 jw@jwprince.com.au

CLIENT: **WINTEN PROPERTY GROUP**

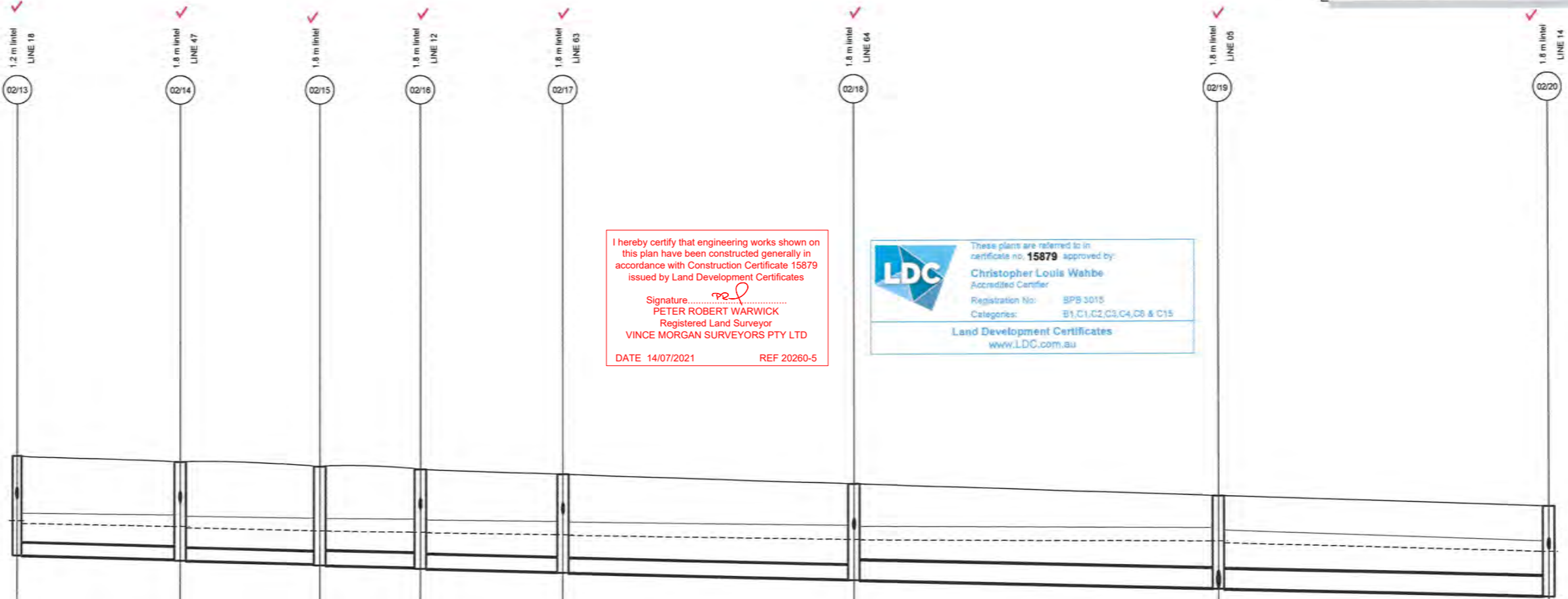
ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 3

PLAN No: **998511/CC44** D
 FILE No: 998511CC44
 SHEET SIZE: **A1 ORIGINAL**

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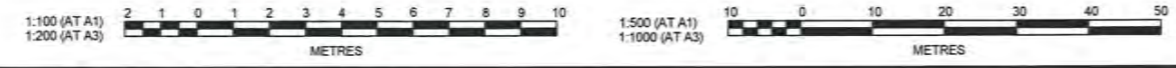
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: *[Signature]*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

LDC These plans are referred to in certificate no. **15879** approved by:
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPB 3015
 Categories: B1, C1, C2, C3, C4, C8 & C15
 Land Development Certificates
 www.LDC.com.au

DATUM (m)	14.00							
PEAK FLOW (L/s)	382	421	430	449	474	562	1189	
PIPE SIZE (mm)	525 ✓	525 ✓	600 ✓	600 ✓	600 ✓	825 ✓	825 ✓	
PIPE CLASS	RRJ3	RRJ3	RRJ3	RRJ3	RRJ3	RRJ3	RRJ2	
PIPE GRADE (%)	-0.5 ✓ 0.6	-0.5 ✓ 0.8	-0.5 ✓ 0.7	0.5 ✓	0.5 ✓	-0.5 ✓ 0.8	0.5 ✓	
PIPE COVER MINIMUM	3.55	3.56	3.53	3.48	3.39	3.03	2.91	
FULL PIPE VELOCITY (m/s)	1.77	1.98	1.69	1.71	1.83	1.53	2.22	
HGL GRADE (%)	0.34	0.44	0.22	0.27	0.33	0.13	0.58	
WAE								
HYDRAULIC GRADE LINE	21.144	21.021	20.716	20.654	20.537	20.303	20.103	
INVERT LEVEL	19.270 19.260 19.250	19.447 19.436 19.426	19.228 19.217 19.207	19.112 19.101 19.091	19.954 19.943 19.933	19.616 19.605 19.595	19.118 19.107 19.097	17.718 17.707 17.697
DESIGN SURFACE LEVEL	20.000 20.000 20.000	20.000 20.000 20.000	20.000 20.000 20.000	20.000 20.000 20.000	20.000 20.000 20.000	20.000 20.000 20.000	20.000 20.000 20.000	21.000 21.000 21.000
ROAD CHAINAGE	482.93	449.28	421.92	403.75	373.65	312.12	235.00	105.00
PIPE CHAINAGE	270.021	304.392	333.894	355.140	385.254	446.778	523.902	593.902

LINE 02



Plotted: 26 September, 2019 2:52:02 PM File Name: J:\998511\CC445 - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\5\PRECINCT 5 DOCUMENTATION\998511CC445.dwg

C	ISSUE FOR CONSTRUCTION APPROVAL	DG	VS	RO	MS	26/09/19
B	ISSUE FOR CAA APPROVAL	DG	NM/UM	RO	MS	12/09/19
A	ISSUE FOR CONSTRUCTION APPROVAL	DG	JM	RO	MS	02/09/19
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH (WESTFIELD) NSW 2750
 P 02 4726 3300 W www.jwprince.com.au E jw@jwprince.com.au

AZIMUTH:
 AHD
 DATUM:
 MGA
 ORIGIN:

CLIENT:

WINTAN PROPERTY GROUP

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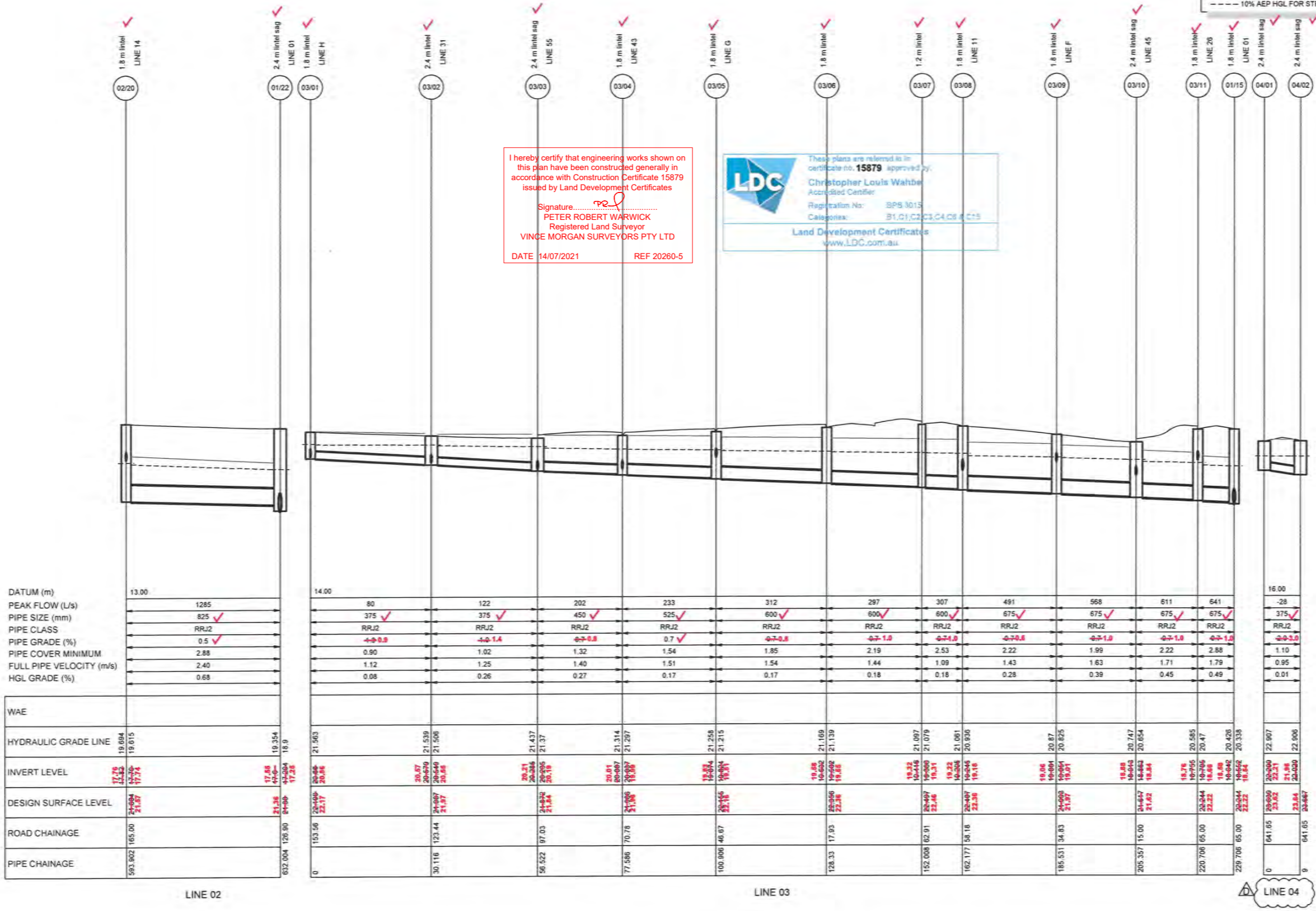
ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 4

PLAN No: **998511/CC445** **C**
 FILE No: 998511CC445
 SHEET SIZE: A1 ORIGINAL

Printed: 23 April, 2020 4:23:03 PM. File Name: J:\998511\CC - Construction Certificate Approval Plans\PK11-CENTRAL-PRECINCT5\DOCUMENTATION\998511CC446.dwg

NOTE:
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 Signature: *[Signature]*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

These plans are referred to in certificate no. **15879** approved by:
Christopher Louis Wahba
 Accredited Certifier
 Registration No: BPS 3015
 Categories: B1, C1, C2, C3, C4, C5 & C15
 Land Development Certificates
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LINE	DATUM (m)	PEAK FLOW (L/s)	PIPE SIZE (mm)	PIPE CLASS	PIPE GRADE (%)	PIPE COVER MINIMUM	FULL PIPE VELOCITY (m/s)	HGL GRADE (%)	WAE	HYDRAULIC GRADE LINE	INVERT LEVEL	DESIGN SURFACE LEVEL	ROAD CHAINAGE	PIPE CHAINAGE
LINE 02	13.00	1285	825 ✓	RRJ2	0.5 ✓	2.88	1.12	0.68		19.604 19.615	17.25 17.26 17.74	21.404 21.37	165.00	993.002
LINE 03	14.00	80	375 ✓	RRJ2	4.0-0.8	0.90	1.12	0.08		21.563 21.539 21.508	19.87 20.670 20.548 20.85	22.117 22.109 21.97	153.56	0
		122	375 ✓	RRJ2	4.0-1.4	1.02	1.25	0.26		21.437 21.37	20.51 20.602 20.305 20.19	21.84 21.84 21.84	123.44	30.116
		202	450 ✓	RRJ2	0.7-0.8	1.32	1.40	0.27		21.314 21.297	19.81 20.607 20.309 20.20	21.08 21.08 21.08	70.78	77.586
		233	525 ✓	RRJ2	0.7 ✓	1.54	1.51	0.17		21.258 21.215	19.84 19.84 19.84	22.16 22.16	46.07	100.008
		312	600 ✓	RRJ2	0.7-0.8	1.85	1.54	0.17		21.109 21.139	19.06 19.602 19.88	22.28 22.28	17.93	128.33
		297	600 ✓	RRJ2	0.7-1.0	2.19	1.44	0.18		21.067 21.079	19.32 19.800 19.31	22.06 22.06	62.91	152.008
		307	600 ✓	RRJ2	0.7-1.0	2.53	1.09	0.18		21.061 20.930	19.22 19.205 19.245 19.18	22.38 22.38	58.18	162.177
		491	675 ✓	RRJ2	0.7-0.8	2.22	1.43	0.28		20.87 20.825	19.04 19.004 19.051 19.071	21.07 21.07	34.83	185.531
		568	675 ✓	RRJ2	0.7-1.0	1.99	1.63	0.39		20.747 20.654	18.88 19.042 18.84	21.82 21.82	15.00	205.357
		611	675 ✓	RRJ2	0.7-1.0	2.22	1.71	0.45		20.585 20.47	18.78 18.795 18.795 18.48	22.22 22.22	65.00	220.708
		641	675 ✓	RRJ2	0.7-1.0	2.88	1.79	0.49		20.428 20.338	18.68 18.682 18.84	22.22 22.22	65.00	229.708
LINE 04	16.00	-28	375 ✓	RRJ2	0.0-3.0	1.10	0.95	0.01		22.907 22.906	20.00 22.31 21.88	23.84 23.84	641.65	0



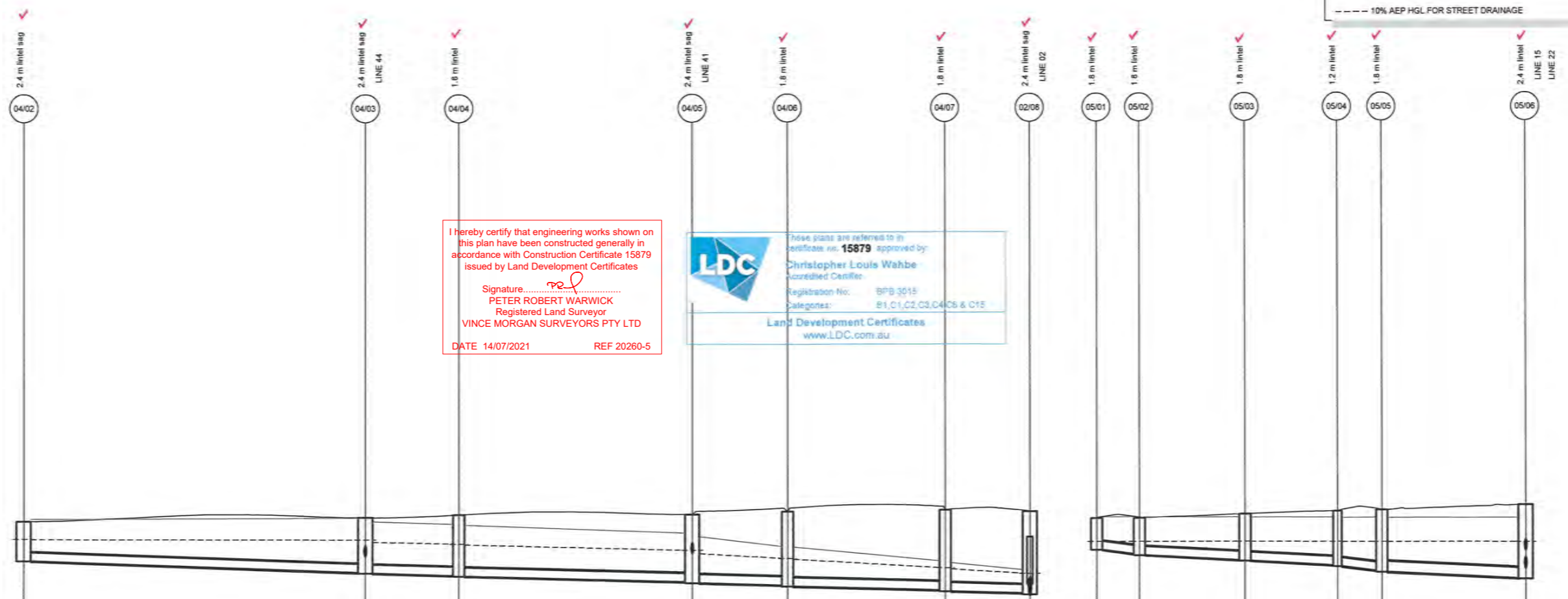
AMENDMENT	DES	DRN	CKD	APR	DATE
D DRAINAGE LONG SECTION 4 UPDATED	DG	DG	MP	MS	33/04/20
C ISSUE FOR CONSTRUCTION APPROVAL	DG	VS	RO	MS	28/09/19
B ISSUE FOR CAA APPROVAL	DG	NM/JM	RO	MS	12/09/19
A ISSUE FOR CONSTRUCTION APPROVAL	DG	JM	RO	MS	02/09/19

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
 PO BOX 4356 PENRITH WESTFIELD NSW 2150
 P 02 4720 3300 W www.jwyndhamprince.com.au E jpr@jwyndhamprince.com.au

CLIENT: 	ISSUE FOR CONSTRUCTION APPROVAL	
AZIMUTH: AHD DATUM: MGA ORIGIN:	NEWPARK PRECINCT 5 DRAINAGE LONGITUDINAL SECTIONS SHEET 5	
THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE	PLAN No: 998511/CC446 D FILE No: 998511CC446 SHEET SIZE: A1 ORIGINAL	

Printed: 23 April, 2020 3:43:51 PM File Name: J:\998511\CC447 - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 5 DOCUMENTATION\998511CC447.dwg

NOTE:
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WAE	04/02	04/03	04/04	04/05	04/06	04/07	02/08	
DATUM (m)	16.00							
PEAK FLOW (L/s)		66	126	141	197	200	204	
PIPE SIZE (mm)		375 ✓	375 ✓	375 ✓	375 ✓	375 ✓	375 ✓	
PIPE CLASS		RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	
PIPE GRADE (%)		0.7 ✓	-0.5 0.7	0.5 ✓	-0.5 0.7	0.5 ✓	-0.5 0.48	
PIPE COVER MINIMUM		1.28	1.97	2.23	2.66	2.95	3.10	
FULL PIPE VELOCITY (m/s)		0.73	1.16	1.28	1.78	1.81	1.84	
HGL GRADE (%)		0.03	0.38	0.49	1.02	1.1	1.1	
HYDRAULIC GRADE LINE	22.306	22.876	22.693	22.415	22.058	21.648	21.398	
INVERT LEVEL	21.96 22.095 21.97	21.40 21.407 21.36	21.38 21.397 21.33	21.03 21.097 20.98	20.83 20.895 20.79	20.83 20.950 20.81	20.83 20.900 20.81	20.83 20.945 20.84
DESIGN SURFACE LEVEL	23.07 23.04	23.04 23.19	23.04 23.19	23.00 23.30	23.05 23.30	23.14 23.09	24.0 24.04	24.13 24.06
ROAD CHAINAGE	641.65	714.75	734.78	784.76	805.63	840.24	895.98	
PIPE CHAINAGE	0	62.104	102.729	152.11	172.522	206.339	224.487	

WAE	05/01	05/02	05/03	05/04	05/05	05/06
DATUM (m)	15.00					
PEAK FLOW (L/s)	21	51	78	89	146	
PIPE SIZE (mm)	375 ✓	375 ✓	375 ✓	375 ✓	450 ✓	
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	
PIPE GRADE (%)	2.0 ✓	1.0 ✓	1.0 ✓	2.0 ✓	0.9 ✓	
PIPE COVER MINIMUM	1.00	1.19	1.60	2.02	2.17	
FULL PIPE VELOCITY (m/s)	0.86	1.03	1.27	1.40	1.04	
HGL GRADE (%)	0	0.02	0.03	0.04	0.04	
HYDRAULIC GRADE LINE	21.742	21.742	21.728	21.722	21.717	21.691
INVERT LEVEL	21.332 21.332 21.18	21.332 21.332 21.18	20.85 20.850 20.85	20.85 20.850 20.85	20.85 20.850 20.85	20.13 20.130 20.13
DESIGN SURFACE LEVEL	23.04 23.04	23.04 23.04	23.04 23.04	23.04 23.04	23.04 23.04	23.24 23.24
ROAD CHAINAGE	138.12	137.50	114.85	95.00	92.01	61.12
PIPE CHAINAGE	0	9.145	31.795	51.645	61.127	92.019



LINE 05



AMENDMENT	DES	DRN	CHKD	APR	DATE
D DRAINAGE LONG SECTION 4 UPDATED	DG	DG	MP	MS	23/04/20
C ISSUE FOR CONSTRUCTION APPROVAL	DG	VS	RO	MS	26/09/19
B ISSUE FOR CAA APPROVAL	DG	NMUM	RO	MS	12/08/19
A ISSUE FOR CONSTRUCTION APPROVAL	DG	JM	RO	MS	02/09/19

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4730 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT: **WINTEN PROPERTY GROUP**

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

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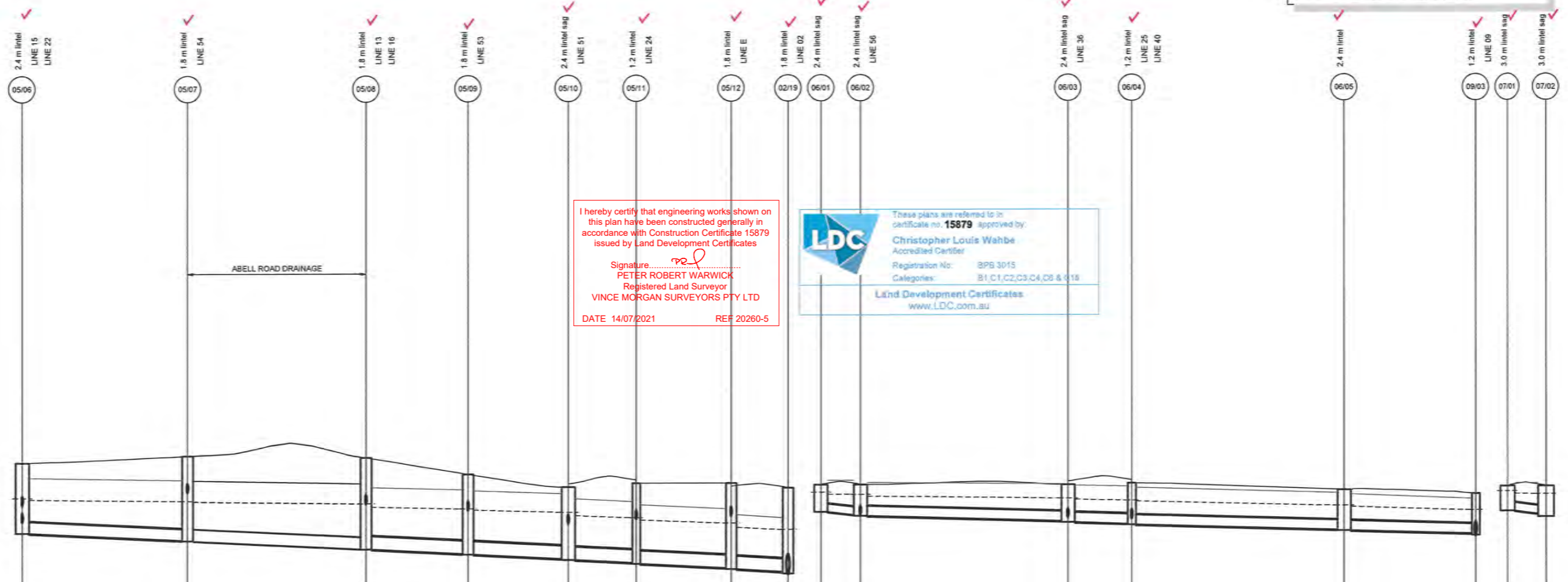
ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 6

PLAN No: **998511/CC447** D
 FILE No: 998511CC447
 SHEET SIZE: A1 ORIGINAL

Printed: 26 September, 2019 2:42:21 PM File Name: J:\9985DCC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\PRECINCT 5 DOCUMENTATION\99851CC448.dwg

NOTE:
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Signature: *PR*
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 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

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 Accredited Certifier
 Registration No: 8PB 3015
 Categories: B1,C1,C2,C3,C4,C6 & C15
 Land Development Certificates
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	LINE 05										LINE 06				LINE 07			
DATUM (m)	15.00										16.00				16.00			
PEAK FLOW (L/s)	321		351		450		488		562		574		621					
PIPE SIZE (mm)	525 ✓		525 ✓		600 ✓		600 ✓		600 ✓		600 ✓		600 ✓					
PIPE CLASS	RRJ2		RRJ2		RRJ2		RRJ2		RRJ2		RRJ2		RRJ2					
PIPE GRADE (%)	-0.0-1.0		0.9 ✓		-0.0-1.5		-0.0-0.8		-0.0-1.2		-0.0-1.2		-0.0-0.8					
PIPE COVER MINIMUM	2.62		3.31		3.01		2.61		2.86		3.02		3.16					
FULL PIPE VELOCITY (m/s)	1.66		1.73		1.73		1.73		1.99		2.03		2.20					
HGL GRADE (%)	0.2		0.27		0.41		0.5		0.54		0.65		0.83					
WAE																		
HYDRAULIC GRADE LINE	15.00	21.691	21.611	21.512	21.404	21.254	21.159	21.111	20.995	20.838	20.739	20.632	20.519	20.419	20.308	20.189	20.108	
INVERT LEVEL	20.13	20.128	20.069	19.73	19.35	19.025	18.73	18.38	18.07	17.69	17.37	17.03	16.67	16.31	15.95	15.59	15.23	
DESIGN SURFACE LEVEL	20.036	20.036	20.1	20.008	19.45	19.025	18.67	18.31	17.95	17.59	17.23	16.87	16.51	16.15	15.79	15.43	15.07	
ROAD CHAINAGE	61.12	23.60	23.24	23.81	30.06	32.73	35.40	38.07	40.74	43.41	46.08	48.75	51.42	54.09	56.76	59.43	62.10	
PIPE CHAINAGE	02.019	129.54	23.60	170.291	61.35	193.382	38.06	216.424	15.22	231.148	205.97	235.00	235.00	235.00	235.00	235.00	235.00	



AMENDMENT	DES	DRN	CKD	APR	DATE	
C		DG	VS	RO	MS	26/09/19
B		DG	NM/IM	RO	MS	12/09/19
A		DG	JM	RO	MS	02/09/19

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CLIENT:
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AZIMUTH:
 AHD
 DATUM:
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 ORIGIN:

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
ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 7

PLAN No: **998511/CC448** **C**
 FILE No: 998511CC448
 SHEET SIZE: A1 ORIGINAL

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

LDC
 These plans are referred to in certificate no **15879** approved by:
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPS 3015
 Categories: B1,C1,C2,C3,C4,C6 & C15
 Land Development Certificates
 www.LDC.com.au

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates
 Signature: 
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

ABELL ROAD DRAINAGE

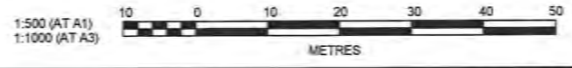
PARAMETER	LINE 07	LINE 08	LINE 09	LINE 10
DATUM (m)	16.00	15.00	15.00	17.00
PEAK FLOW (L/s)	157	49	107	114
PIPE SIZE (mm)	450 ✓	375 ✓	375 ✓	375 ✓
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2
PIPE GRADE (%)	0.5 ✓	1.0 ✓	1.0 ✓	1.0 ✓
PIPE COVER MINIMUM	0.90	1.10	1.10	1.10
FULL PIPE VELOCITY (m/s)	1.07	1.05	0.65	0.63
HGL GRADE (%)	0.23	1.54	0.01	0.02
WAE				
HYDRAULIC GRADE LINE	22.764 22.673	22.377 22.300 22.208 22.149	22.258 22.257 22.196	21.336 21.300 21.268
INVERT LEVEL	21.32 21.08 21.68	21.38 21.00 21.36 21.22	21.16 21.08 21.11 21.05 21.08 21.23	20.89 20.89 21.07 21.07 21.07 21.07
DESIGN SURFACE LEVEL	23.08 23.08	23.73 23.73 23.81	23.72 23.72 23.81	23.18 23.18 23.18 23.18
ROAD CHAINAGE	84.33	1223.16 1101 1223.04	184.72 9.389 182.05	15.35 9.008 15.72
PIPE CHAINAGE	0 66.633 90.685 109.07	0 11.001 1223.04	0 9.389 182.05	0 9.008 15.72

LINE 07

LINE 08

LINE 09

LINE 10



REV	DESCRIPTION	DATE
C	ISSUE FOR CONSTRUCTION APPROVAL	28/09/19
B	ISSUE FOR CAA APPROVAL	12/09/19
A	ISSUE FOR CONSTRUCTION APPROVAL	02/09/19

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 jw@jwprince.com.au

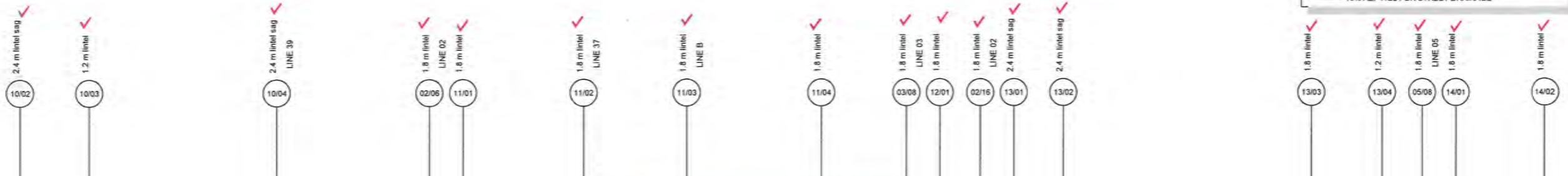
CLIENT:

WINTEN PROPERTY GROUP
 AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:
 THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

ISSUE FOR CONSTRUCTION APPROVAL
NEWPARK PRECINCT 5
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 8
 PLAN No: 998511/CC449 **C**
 FILE No: 998511CC449
 SHEET SIZE: A1 ORIGINAL

Plotted: 26 September 2019 2:52:25 PM File Name: J:\998511\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT 5\PRECINCT 5 DOCUMENTATION\998511CC449.dwg

NOTE:
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Signature: *[Signature]*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

LDC Land Development Certificates
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These plans are referred to in certificate no. **15879** approved by:
 Christopher Louis Wahle
 Accredited Certifier
 Registration No: 8PB 3005
 Categories: B1, C1, C2, C3, C4, C8 & C13

ABELL ROAD DRAINAGE

LINE	MANHOLE	DATUM (m)	PEAK FLOW (L/s)	PIPE SIZE (mm)	PIPE CLASS	PIPE GRADE (%)	PIPE COVER MINIMUM	FULL PIPE VELOCITY (m/s)	HGL GRADE (%)	WAE	HYDRAULIC GRADE LINE	INVERT LEVEL	DESIGN SURFACE LEVEL	ROAD CHAINAGE	PIPE CHAINAGE
LINE 10	10/02	16.00	82	375	RRJ2	-0.91.5	1.16	1.14	0.11		22.466	21.97	22.407	15.72	9.008
	10/03		97	375	RRJ2	0.9	1.66	0.96	0.14		22.407	21.81	22.319	906.19	24.299
	10/04		185	375	RRJ2	-0.8	1.97	1.67	1.14		22.318	21.17	22.372	349.81	85.851
LINE 11	11/02	15.00	28	375	RRJ2	2.0	1.10	0.97	0.21		21.565	21.0	22.91	130.00	26.611
	11/03		76	375	RRJ2	-4.0-1.1	1.48	0.93	0.1		21.55	21.0	22.91	107.05	49.765
	11/04		180	375	RRJ2	1.0	1.58	1.69	0.69		21.528	20.43	22.56	77.13	79.681
	11/01		233	450	RRJ2	1.1	1.62	1.96	0.37		21.351	20.43	22.56	107.05	49.765
LINE 12	12/01	15.00	30	375	RRJ2	-0.8-1.2	1.10	1.07	1.35		21.865	21.80	23.24	404.09	38.831
	12/02		104	375	RRJ2	-0.2-2.3	1.10	1.25	0.96		21.865	21.80	23.24	404.09	38.831
	12/03		129	375	RRJ2	1.0	1.30	1.52	0.82		21.865	21.80	23.24	404.09	38.831
LINE 13	13/03	16.00	136	375	RRJ2	1.0	1.65	1.83	2.22		22.778	21.80	23.47	1377.75	86.290
	13/04		143	375	RRJ2	-0.8-1.2	1.57	1.83	2.22		22.778	21.80	23.47	1377.75	86.290
	13/01		136	375	RRJ2	1.0	1.65	1.83	2.22		22.778	21.80	23.47	1377.75	86.290
	13/02		143	375	RRJ2	-0.8-1.2	1.57	1.83	2.22		22.778	21.80	23.47	1377.75	86.290
LINE 14	14/01	15.00	39	375	RRJ2	-0.8	1.10	0.82	0.3		20.455	20.18	21.76	212.00	20.421
	14/02		39	375	RRJ2	-0.8	1.10	0.82	0.3		20.455	20.18	21.76	212.00	20.421



Plotted: 26 September, 2019 2:52:25 PM. File Name: J:\9985DCC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\PRECINCT 5 DOCUMENTATION\998511CC450.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
C	DG	VS	RO	MS	26/09/19
B	DG	NM/JM	RO	MS	12/09/19
A	DG	JM	RO	MS	02/09/19

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 jwpr@jwprince.com.au

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

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CLIENT: WINTEN PROPERTY GROUP

ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 9

PLAN No: 998511/CC450 **C**
 FILE No: 998511CC450
 SHEET SIZE: A1 ORIGINAL

NOTE:
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Signature: *[Signature]*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

LDC
 These plans are referred to in certificate no. 15879 approved by
 Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPB 3015
 Categories: S1, C1, C2, C3, C4, C5 & C15
 Land Development Certificates
 www.LDC.com.au

DATUM (m)	14.00	15.00	16.00	15.00	16.00	17.00
PEAK FLOW (L/s)	68	87	24	12	42	65
PIPE SIZE (mm)	375 ✓	375 ✓	375 ✓	375 ✓	375 ✓	375 ✓
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2
PIPE GRADE (%)	-0.8	-0.8	1.0 ✓	0.5 ✓	0.5 ✓	-0.8
PIPE COVER MINIMUM	1.19	1.33	1.10	0.80	0.85	1.11
FULL PIPE VELOCITY (m/s)	1.14	1.37	1.11	0.43	0.71	1.37
HGL GRADE (%)	0.47	0.85	1.31	0.01	0.05	0.53
WAE						
HYDRAULIC GRADE LINE	20.394	20.287	22.479	20.957	20.942	20.732
INVERT LEVEL	20.18	20.14	22.41	20.47	20.32	20.732
DESIGN SURFACE LEVEL	21.78	21.84	23.18	21.87	21.48	21.87
ROAD CHAINAGE	191.58	176.86	1292.66	15.58	31.00	298.60
PIPE CHAINAGE	421	35	11005	15405	31084	51686

LINE 14 LINE 15 LINE 16 LINE 17 LINE 18 LINE 19



J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

CLIENT: **WINTEN PROPERTY GROUP**

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ISSUE FOR CONSTRUCTION APPROVAL

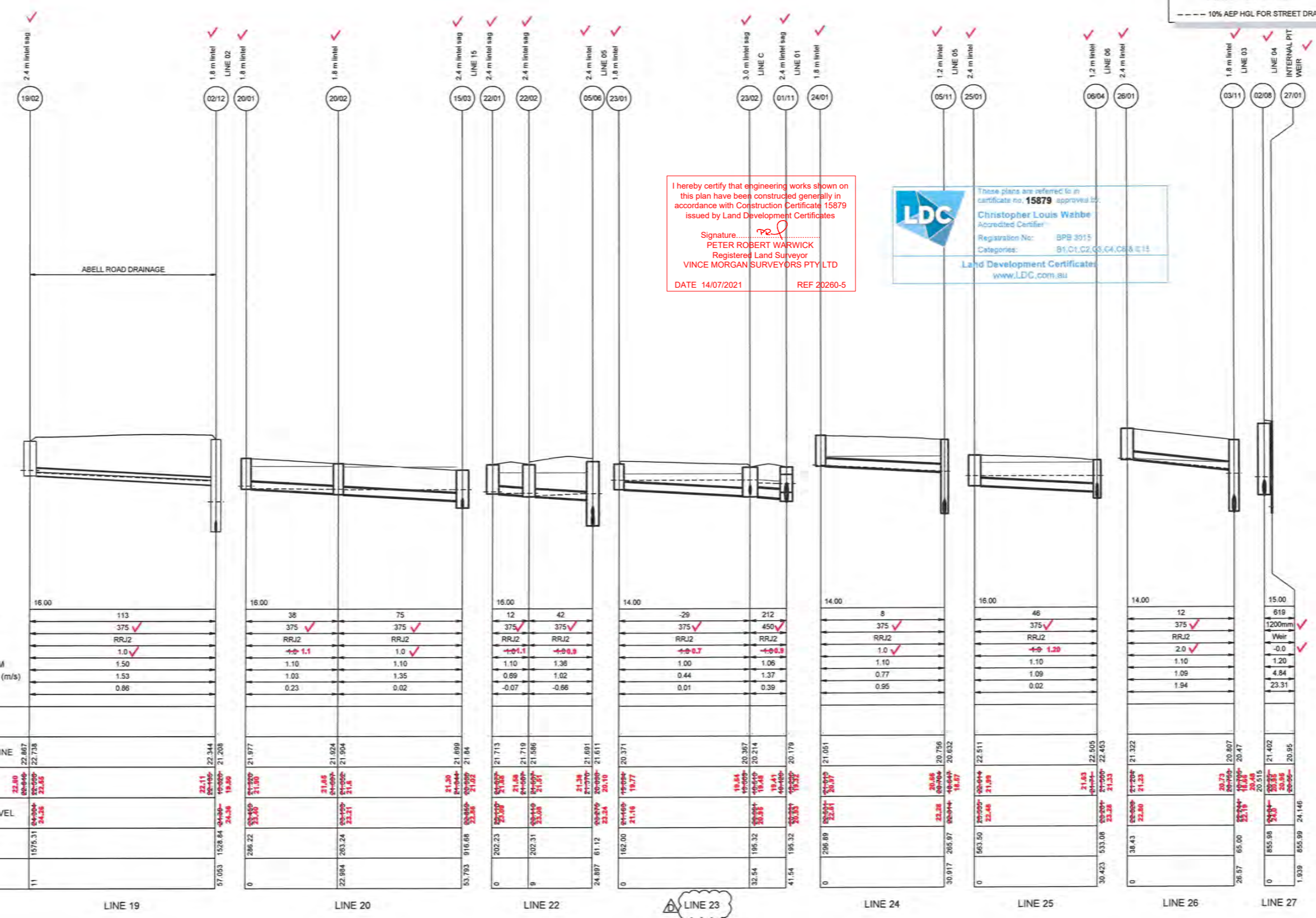
NEWPARK DRAINAGE PRECINCT 5 SHEET 10

PLAN No: 998511/CC451 **C**
 FILE No: 998511CC451
 SHEET SIZE: A1 ORIGINAL

Printed: 26 September 2019 2:52:25 PM File Name: J:\998511\CC451\PRECINCT 5 DOCUMENTATION\998511CC451.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
C	DG	VS	RO	MS	26/09/19
B	DG	NM/JM	RO	MS	12/09/19
A	DG	JM	RO	MS	02/09/19

NOTE:
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Signature: *[Signature]*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

LDC Land Development Certificates
 www.LDC.com.au

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Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPB 3015
 Categories: B1,C1,C2,C3,C4,C8 & C11

DATUM (m)	16.00
PEAK FLOW (L/s)	113
PIPE SIZE (mm)	375 ✓
PIPE CLASS	RRJ2
PIPE GRADE (%)	1.0 ✓
PIPE COVER MINIMUM	1.50
FULL PIPE VELOCITY (m/s)	1.53
HGL GRADE (%)	0.86

WAE	LINE 19	LINE 20	LINE 22	LINE 23	LINE 24	LINE 25	LINE 26	LINE 27
HYDRAULIC GRADE LINE	22.80 22.867 22.738	21.977 21.924 21.904	21.713 21.719 21.586	20.371 20.367 20.214	21.051 20.756 20.632	22.511 22.505 22.453	21.322 21.323 21.333	21.402 20.95
INVERT LEVEL	22.80 22.867 22.738	21.977 21.924 21.904	21.713 21.719 21.586	20.371 20.367 20.214	21.051 20.756 20.632	22.511 22.505 22.453	21.322 21.323 21.333	21.402 20.95
DESIGN SURFACE LEVEL	24.26 24.26 24.26	23.21 23.21 23.21	23.21 23.21 23.21	23.21 23.21 23.21	23.21 23.21 23.21	23.21 23.21 23.21	23.21 23.21 23.21	23.21 23.21 23.21
ROAD CHAINAGE	1076.31	203.24	202.31	192.00	206.89	563.50	38.43	855.98
PIPE CHAINAGE	11	0	9	0	0	0	0	0



Plotted: 23 April, 2020 3:43:51 PM File Name: J:\99851CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 5 DOCUMENTATION\99851CC452.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE	
D	DRAINAGE LONG SECTION Z3 UPDATED	DG	DG	MP	MS	23/04/20
C	ISSUE FOR CONSTRUCTION APPROVAL	DG	VS	RO	MS	26/09/19
B	ISSUE FOR CAA APPROVAL	DG	NM/UM	RO	MS	12/09/19
A	ISSUE FOR CONSTRUCTION APPROVAL	DG	JM	RO	MS	02/09/19

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

CLIENT: **WINTEN PROPERTY GROUP**

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

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ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 11

PLAN No: **99851/CC452** **D**
 FILE No: 99851CC452
 SHEET SIZE: A1 ORIGINAL

Printed: 23 April, 2020 3:45:30 PM File Name: J:\9985DCC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\PRECINCT 5 DOCUMENTATION\998511CC453.dwg

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Signature: 
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 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

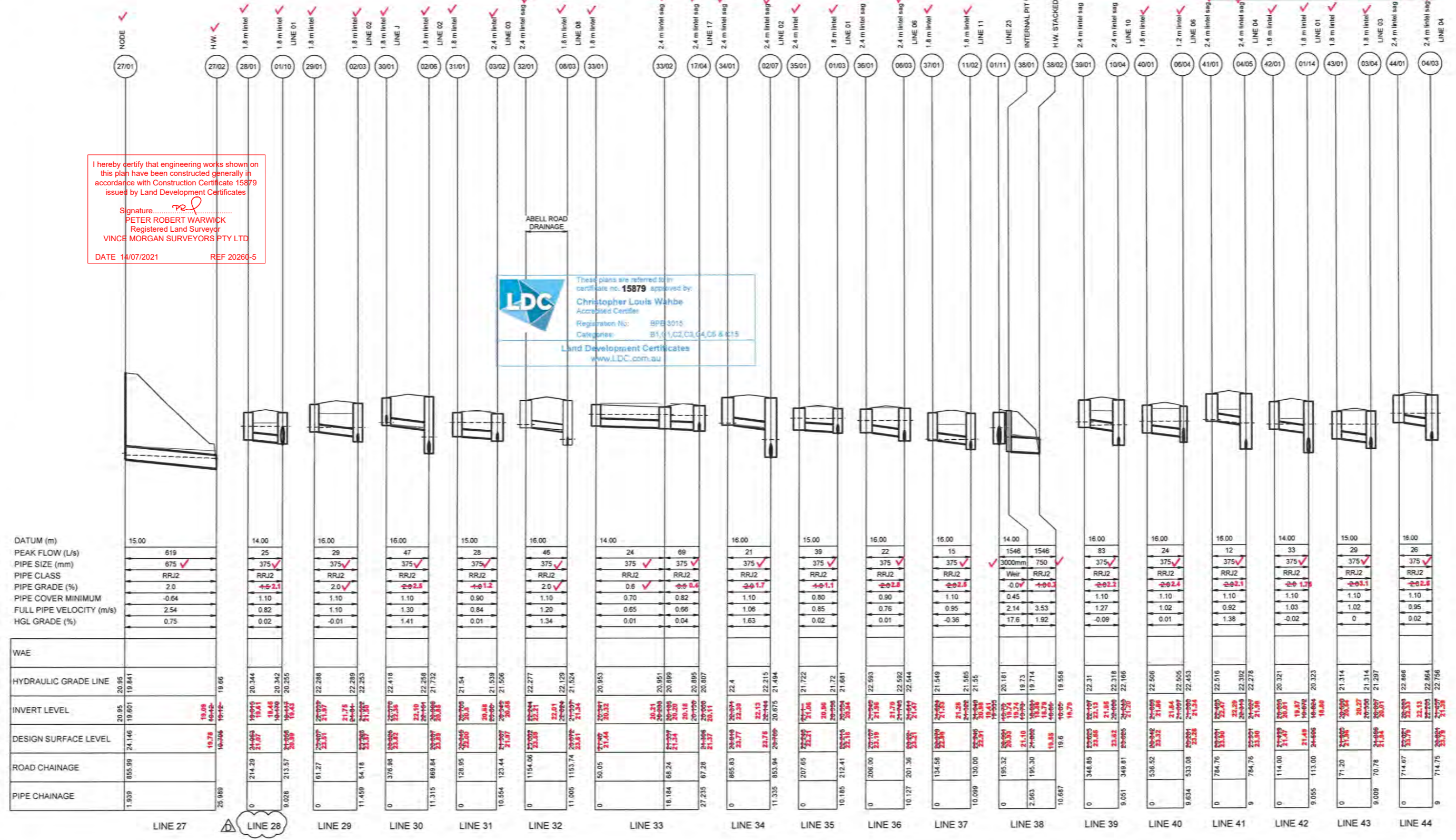
DATE 14/07/2021 REF 20260-5

LDC

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Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPE 3015
 Categories: B1, C1, C2, C3, C4, C5 & C15

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DATUM (m)	15.00
PEAK FLOW (L/s)	619
PIPE SIZE (mm)	675
PIPE CLASS	RRJ2
PIPE GRADE (%)	2.0
PIPE COVER MINIMUM	-0.64
FULL PIPE VELOCITY (m/s)	2.54
HGL GRADE (%)	0.75

WAE	HYDRAULIC GRADE LINE	INVERT LEVEL	DESIGN SURFACE LEVEL	ROAD CHAINAGE	PIPE CHAINAGE
25.989	20.95	20.95	24.146	855.99	1.939
25.989	19.601	19.601	19.841	19.601	25.989
25.989	20.344	19.601	19.841	19.601	25.989
25.989	20.342	19.601	19.841	19.601	25.989
25.989	20.255	19.601	19.841	19.601	25.989
25.989	22.284	21.877	21.877	61.27	0
25.989	22.289	21.778	21.778	54.18	11.459
25.989	22.253	21.807	21.807	54.18	11.459
25.989	22.418	22.219	22.219	376.88	0
25.989	22.256	22.19	22.19	376.88	0
25.989	21.732	20.819	20.819	669.84	11.315
25.989	21.54	20.709	20.709	669.84	11.315
25.989	21.539	20.88	20.88	669.84	11.315
25.989	21.506	20.849	20.849	669.84	11.315
25.989	22.277	22.277	22.277	1164.06	0
25.989	22.129	22.094	22.094	1164.06	0
25.989	21.524	21.524	21.524	1164.06	0
25.989	20.953	20.953	20.953	1164.06	0
25.989	20.951	20.951	20.951	1164.06	0
25.989	20.899	20.899	20.899	1164.06	0
25.989	20.895	20.895	20.895	1164.06	0
25.989	20.807	20.807	20.807	1164.06	0
25.989	22.4	22.4	22.4	865.83	0
25.989	22.215	22.215	22.215	865.83	0
25.989	21.722	21.722	21.722	207.65	0
25.989	21.72	21.72	21.72	207.65	0
25.989	21.681	21.681	21.681	207.65	0
25.989	22.593	22.593	22.593	10.185	0
25.989	22.592	22.592	22.592	10.185	0
25.989	22.544	22.544	22.544	10.185	0
25.989	21.549	21.549	21.549	154.58	0
25.989	21.585	21.585	21.585	154.58	0
25.989	21.55	21.55	21.55	154.58	0
25.989	20.181	20.181	20.181	195.32	0
25.989	19.73	19.73	19.73	195.32	0
25.989	19.714	19.714	19.714	195.32	0
25.989	19.558	19.558	19.558	195.32	0
25.989	22.31	22.31	22.31	348.85	0
25.989	22.318	22.318	22.318	348.85	0
25.989	22.166	22.166	22.166	348.85	0
25.989	22.506	22.506	22.506	536.52	0
25.989	22.505	22.505	22.505	536.52	0
25.989	22.453	22.453	22.453	536.52	0
25.989	22.516	22.516	22.516	784.76	0
25.989	22.392	22.392	22.392	784.76	0
25.989	22.278	22.278	22.278	784.76	0
25.989	20.323	20.323	20.323	114.07	0
25.989	21.314	21.314	21.314	114.07	0
25.989	21.314	21.314	21.314	114.07	0
25.989	21.297	21.297	21.297	114.07	0
25.989	22.866	22.866	22.866	714.07	0
25.989	22.864	22.864	22.864	714.07	0
25.989	22.766	22.766	22.766	714.07	0



 WINTAN PROPERTY GROUP	ISSUE FOR CONSTRUCTION APPROVAL	
	NEWPARK PRECINCT 5 DRAINAGE LONGITUDINAL SECTIONS SHEET 12	
CLIENT: WINTAN PROPERTY GROUP	PLAN No: 998511/CC453	FILE No: 998511CC453
AZIMUTH: AHD DATUM: MGA ORIGIN:	SHEET SIZE: A1 ORIGINAL	

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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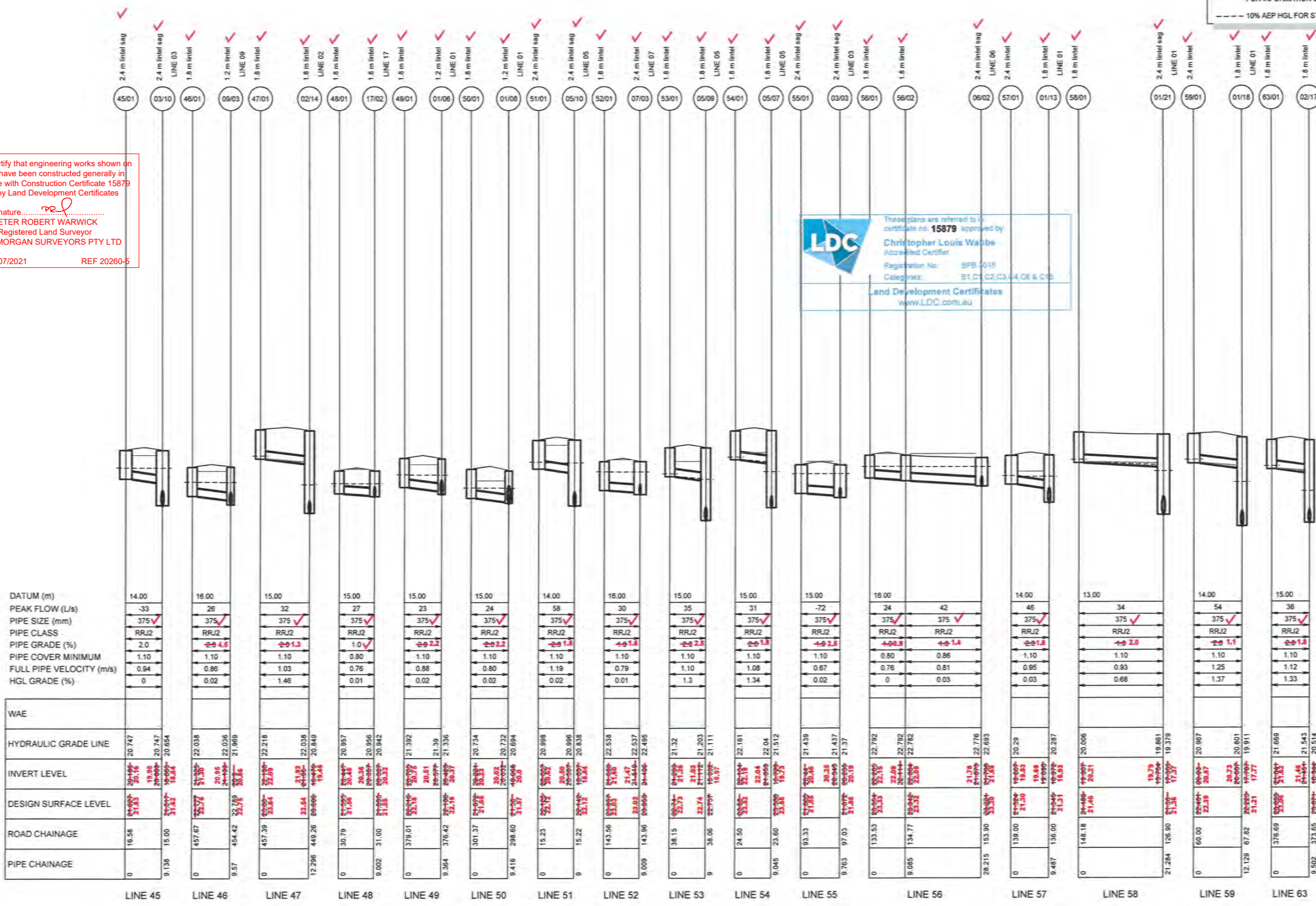
AMENDMENT	DES	DRN	CKD	APR	DATE	
D	DRAINAGE LONG SECTION 28 UPDATED	OG	OG	MP	MS	23/04/20
C	ISSUE FOR CONSTRUCTION APPROVAL	OG	VS	RO	MS	28/09/19
B	ISSUE FOR CAA APPROVAL	OG	NMUM	RO	MS	12/09/19
A	ISSUE FOR CONSTRUCTION APPROVAL	OG	JM	RO	MS	02/09/19

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Signature: 
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

These plans are referred to by certificate no. 15879 approved by:
 Christopher Louis Wabbe
 Accredited Certifier
 Registration No: BPS 4018
 Categories: B1, C1, C2, C3, C4, C6 & C8
 Land Development Certificates
 www.LDC.com.au



LINE	DATUM (m)	PEAK FLOW (L/s)	PIPE SIZE (mm)	PIPE CLASS	PIPE GRADE (%)	PIPE COVER MINIMUM	FULL PIPE VELOCITY (m/s)	HGL GRADE (%)	WAE	HYDRAULIC GRADE LINE	INVERT LEVEL	DESIGN SURFACE LEVEL	ROAD CHAINAGE	PIPE CHAINAGE
45/01	14.00	-33	375	RRJ2	2.0	1.10	0.94	0		20.747	20.16	21.02	16.58	0
03/10	16.00	26	375	RRJ2	-0.4	1.10	0.86	0.02		22.038	21.02	22.02	457.67	0
46/01	15.00	32	375	RRJ2	-0.1	1.10	1.03	1.46		22.218	22.02	23.54	457.39	0
09/03	15.00	27	375	RRJ2	1.0	0.80	0.76	0.01		20.957	20.48	21.06	30.79	0
47/01	15.00	23	375	RRJ2	-0.2	1.10	0.88	0.02		21.392	20.78	21.16	319.01	0
02/14	15.00	24	375	RRJ2	-0.2	1.10	0.80	0.02		20.734	20.33	21.02	301.37	0
48/01	14.00	58	375	RRJ2	-0.1	1.10	1.19	0.02		20.998	20.82	21.12	15.23	0
17/02	16.00	30	375	RRJ2	+0.1	1.10	0.79	0.01		22.538	21.47	23.02	143.56	0
49/01	15.00	35	375	RRJ2	-0.2	1.10	1.10	1.3		21.32	21.02	22.04	38.15	0
01/06	15.00	31	375	RRJ2	-0.1	1.10	1.08	1.34		22.161	22.04	23.00	24.50	0
50/01	15.00	-72	375	RRJ2	+0.2	1.10	0.67	0.02		21.439	20.48	21.06	93.33	0
01/08	16.00	24	375	RRJ2	+0.4	0.80	0.76	0		22.792	22.02	23.02	133.53	0
51/01	16.00	42	375	RRJ2	-0.1	0.86	0.81	0.03		22.702	22.02	23.02	134.77	0
05/10	14.00	46	375	RRJ2	-0.1	1.10	0.95	0.03		22.776	22.02	23.02	136.00	0
52/01	13.00	34	375	RRJ2	+0.2	1.10	0.93	0.68		20.206	20.29	21.02	148.18	0
05/07	14.00	54	375	RRJ2	-0.1	1.10	1.25	1.37		20.907	20.27	22.02	60.00	0
53/01	15.00	36	375	RRJ2	-0.1	1.10	1.12	1.33		21.669	21.02	22.02	376.69	0
05/09	15.00	36	375	RRJ2	-0.1	1.10	1.12	1.33		21.543	21.02	22.02	373.65	0
54/01	15.00	36	375	RRJ2	-0.1	1.10	1.12	1.33		20.514	20.27	21.02	373.65	0



Plotted: 26 September, 2019 2:52:30 PM File Name: J:\98511\CC454 - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SI\PRECINCT 5 DOCUMENTATION\98511CC454.dwg

REV	DESCRIPTION	DES	DRN	CKD	APR	DATE
C	ISSUE FOR CONSTRUCTION APPROVAL	DG	VS	RO	MS	26/09/19
B	ISSUE FOR CAA APPROVAL	DG	NLMU	RO	MS	12/09/19
A	ISSUE FOR CONSTRUCTION APPROVAL	DG	JM	RO	MS	02/09/19
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2150
 P 02 4729 3300 W www.jwprince.com.au E www@jwprince.com.au

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

CLIENT: **WINTEN PROPERTY GROUP**

ISSUE FOR CONSTRUCTION APPROVAL


NEWPARK PRECINCT 5
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 13

PLAN No: **998511/CC454** **C**
 FILE No: 998511CC454
 SHEET SIZE: A1 ORIGINAL

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

Plotted: 26 September, 2019 2:52:40 PM File Name: J:\998511\CC455 - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\SPRECINCT 5 DOCUMENTATION\998511CC455.dwg

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

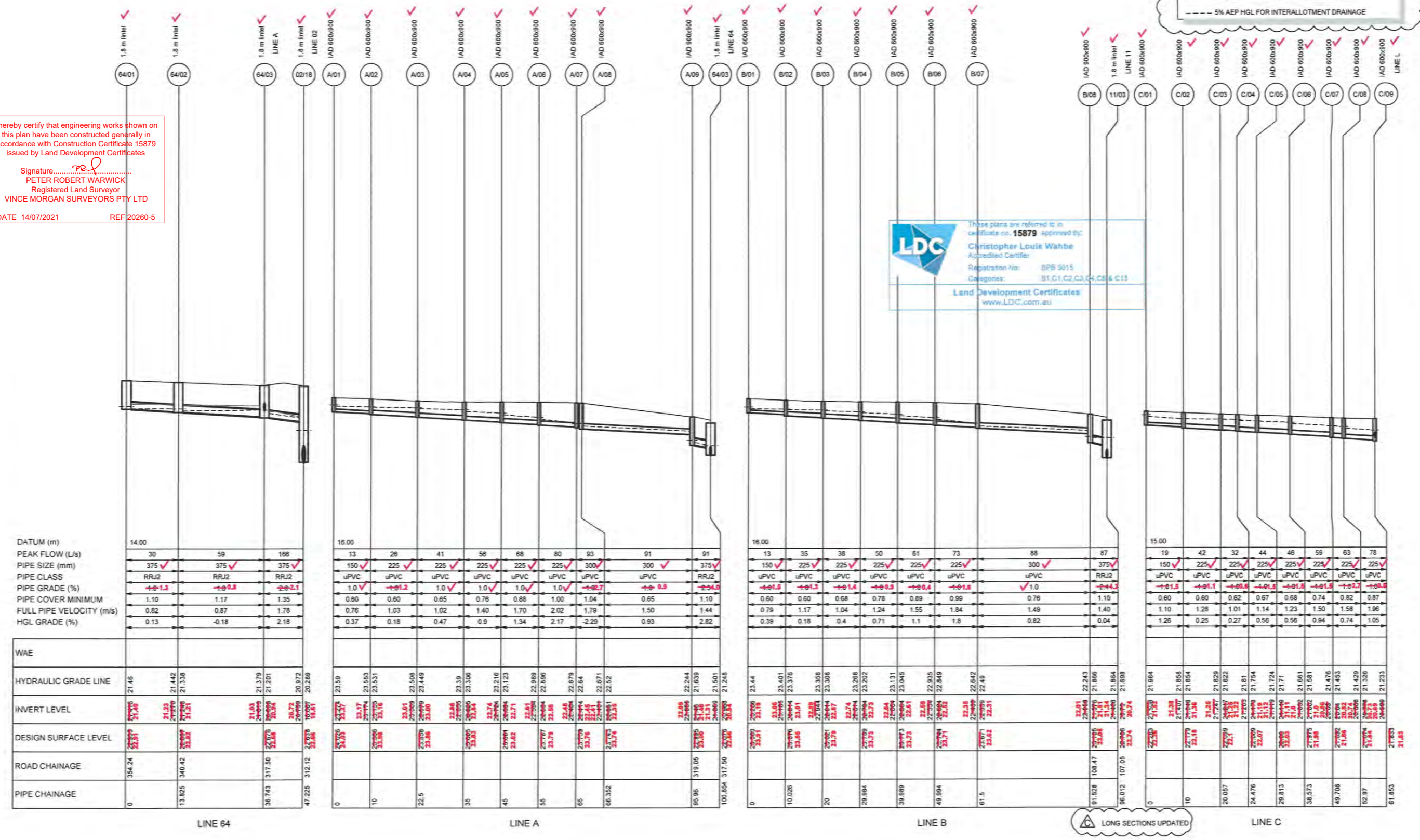
Signature: 
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE: 14/07/2021 REF: 20260-5

NOTE

- 1% AEP HGL PROVIDED FOR STREET DRAINAGE AND FOR INFORMATION ONLY.
- 10% AEP HGL FOR STREET DRAINAGE
- 5% AEP HGL FOR INTERALLOTMENT DRAINAGE

These plans are referred to in certificate no. **15879** approved by:
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: 898 3015
 Categories: B1, C1, C2, C3, C4, C5 & C13
Land Development Certificates
 www.LDC.com.au



DATUM (m)	14.00
PEAK FLOW (L/s)	30
PIPE SIZE (mm)	375
PIPE CLASS	RRJ2
PIPE GRADE (%)	+0.13
PIPE COVER MINIMUM	1.10
FULL PIPE VELOCITY (m/s)	0.82
HGL GRADE (%)	0.13

DATUM (m)	16.00
PEAK FLOW (L/s)	13
PIPE SIZE (mm)	150
PIPE CLASS	uPVC
PIPE GRADE (%)	1.0
PIPE COVER MINIMUM	0.60
FULL PIPE VELOCITY (m/s)	0.76
HGL GRADE (%)	0.37

DATUM (m)	16.00
PEAK FLOW (L/s)	13
PIPE SIZE (mm)	150
PIPE CLASS	uPVC
PIPE GRADE (%)	+0.13
PIPE COVER MINIMUM	0.60
FULL PIPE VELOCITY (m/s)	0.79
HGL GRADE (%)	0.39

DATUM (m)	15.00
PEAK FLOW (L/s)	19
PIPE SIZE (mm)	150
PIPE CLASS	uPVC
PIPE GRADE (%)	+0.13
PIPE COVER MINIMUM	0.60
FULL PIPE VELOCITY (m/s)	1.10
HGL GRADE (%)	1.26

WAE	LINE 64	LINE A	LINE B	LINE C
HYDRAULIC GRADE LINE	21.46	23.59	23.44	21.864
INVERT LEVEL	21.40	23.57	23.19	21.82
DESIGN SURFACE LEVEL	22.51	23.55	23.51	22.28
ROAD CHAINAGE	354.24	319.05	108.47	319.05
PIPE CHAINAGE	0	0	0	0



AMENDMENT	DES	DRN	CKD	APR	DATE
C	DG	VS	RO	MS	26/09/19
B	DG	NMUM	RO	MS	12/09/19
A	DG	JM	RO	MS	02/09/19

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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

CLIENT:
 **WINTEN PROPERTY GROUP**

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

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

ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 14

PLAN No: **998511/CC455** **C**
 FILE No: 998511CC455
 SHEET SIZE: A1 ORIGINAL

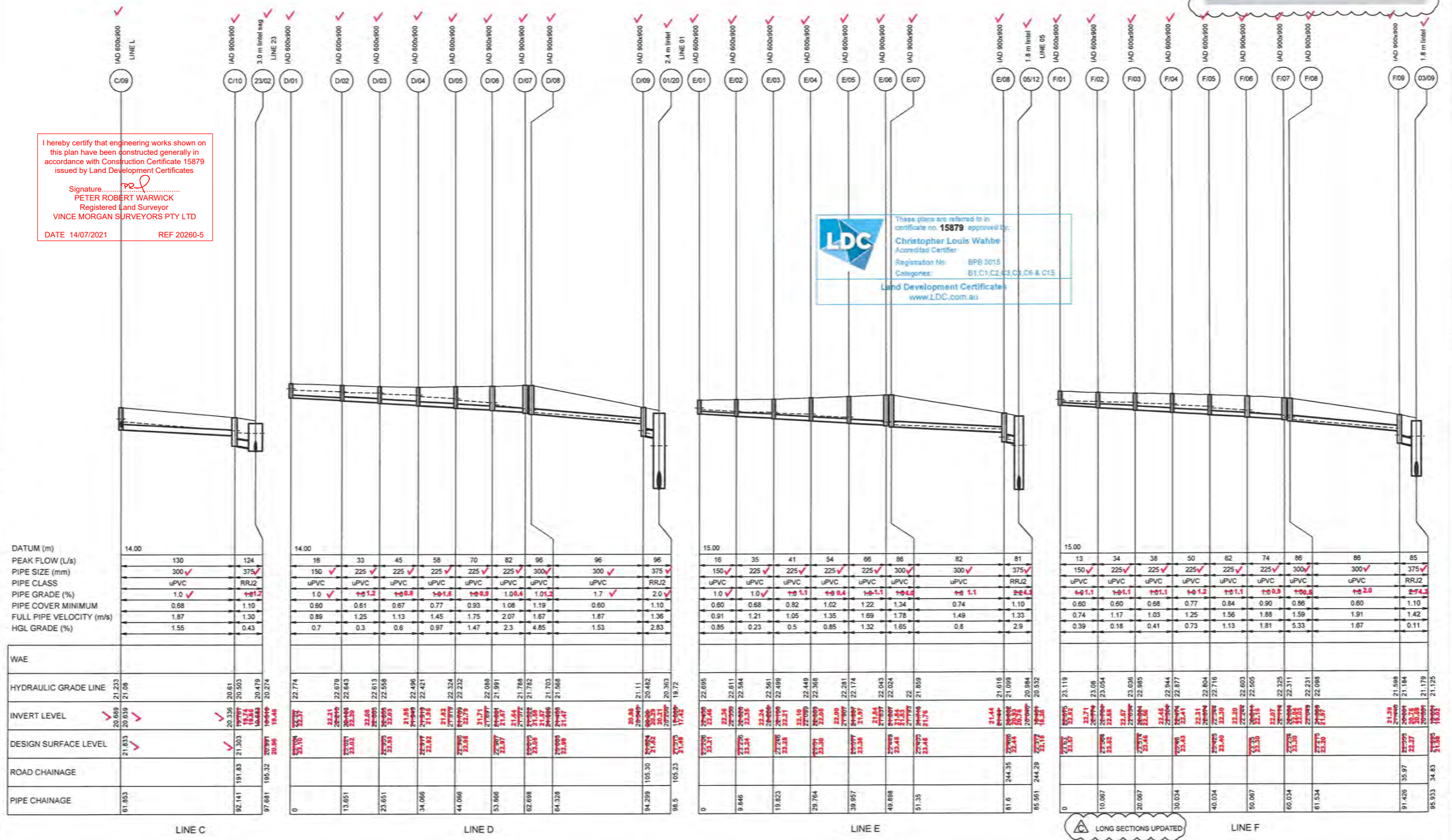
Plotted: 26 September, 2019 2:52:40 PM File Name: J:\98511\CC456 - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT 5\PRECINCT 5 DOCUMENTATION\98511CC456.dwg

NOTE:
 --- 5% AEP HGL FOR INTERALLOTMENT DRAINAGE

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: 
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

These plans are referred to in certificate no. 15879 approved by:
 Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPB 5015
 Categories: B1, C1, C2, C3, C4, C6 & C15
 Land Development Certificates
 www.LDC.com.au



AMENDMENT	DES	DRN	CKD	APR	DATE
C	DG	VS	RO	MS	26/09/19
B	DG	NM/UM	RO	MS	12/09/19
A	DG	JM	RO	MS	02/09/19

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

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:


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

ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 15

PLAN No: 998511/CC456 **C**
 FILE No: 998511CC456
 SHEET SIZE: A1 ORIGINAL

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

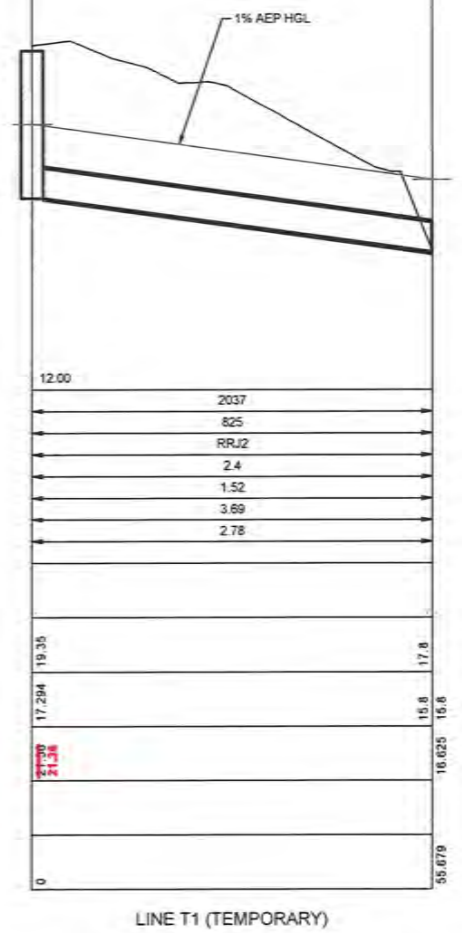
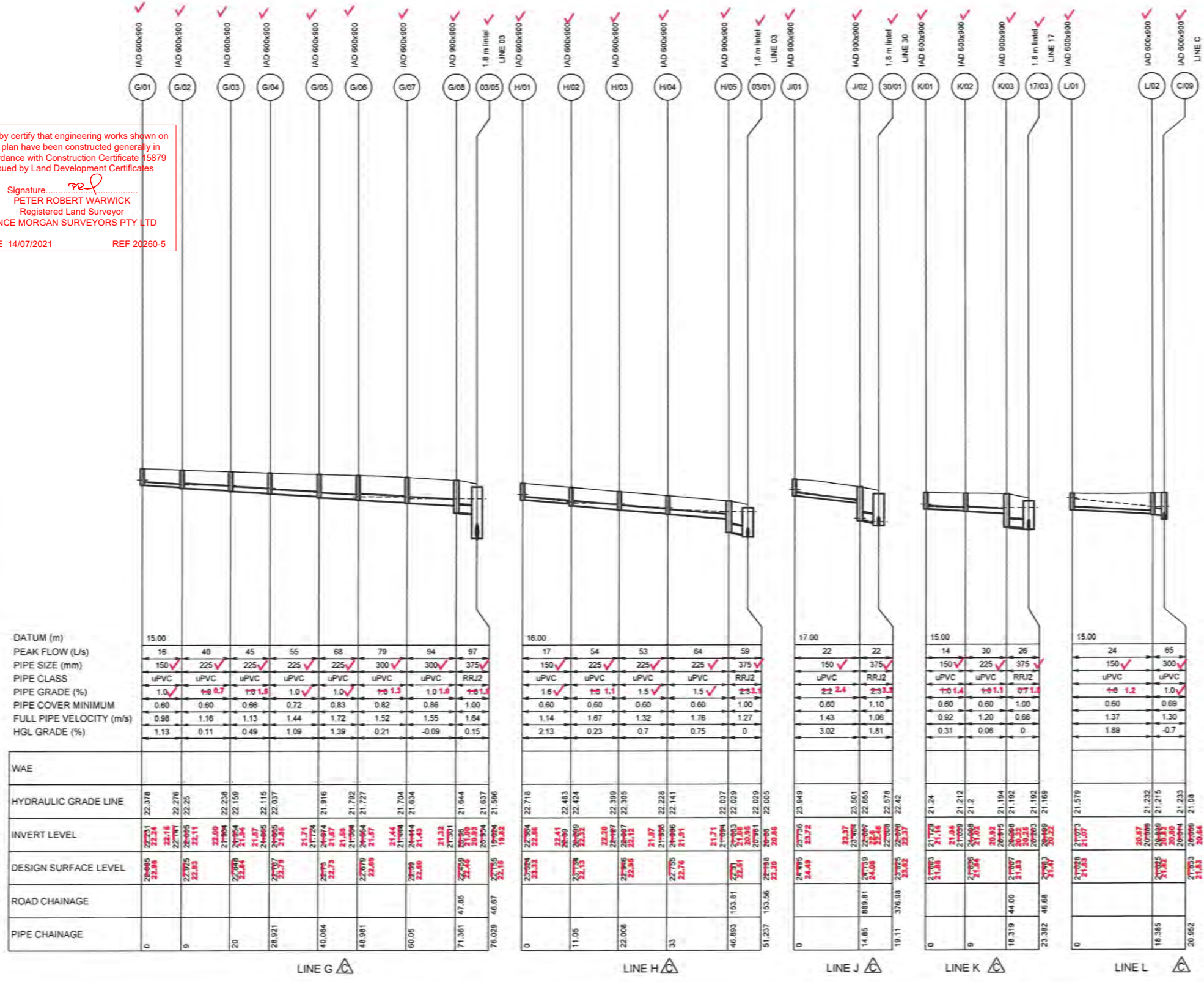
Signature: 
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 14/07/2021 REF 20260-5

NOTE:
 - 1% AEP HGL PROVIDED FOR STREET DRAINAGE AND FOR INFORMATION ONLY.
 - 5% AEP HGL FOR INTERALLOTMENT DRAINAGE

NOT CONSTRUCTED

LDC
 These plans are referred to in certificate no. 15879 approved by:
 Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPB 3015
 Categories: B1, C1, C2, C3, C4, C6 & C15
 Land Development Certificates
 www.LDC.com.au



Plotted: 26 September, 2019 2:52:40 PM File Name: J:\98511\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCT\5\PRECINCT 5 DOCUMENTATION\98511CC457.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
C	DG	VS	RO	MS	26/09/19
B	DG	NM/JM	RO	MS	12/09/19
A	DG	JM	RO	MS	02/09/19

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 jwpr@jwprince.com.au

CLIENT:
 **WINTAN PROPERTY GROUP**

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:


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

ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 16

PLAN No: 998511/CC457 **C**
 FILE No: 998511CC457
 SHEET SIZE: A1 ORIGINAL

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: 
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 14/07/2021 REF 20260-5

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 (-)	BYPASS CHANNEL FLOW (L/s)	U/S FLOW WIDTH (m)	U/S Vd (m/s ²)	D/S FLOW WIDTH (m)	D/S Vd (m/s ²)	COMMENTS
01/01	2.4 m lintel	0.122	85	5	5	15	46	44	2	83	0.7	3	01/02	32	1.91	0.04	1.88	0.05	
01/02	1.8 m lintel	0.083	85	5	5	15	32	30	3	82	0.7	3	01/03	31	1.88	0.04	1.85	0.04	
01/03	1.8 m lintel	0.077	85	5	5	15	31	29	2	81	0.7	3	01/04	30	1.85	0.04	1.81	0.04	
01/04	2.4 m lintel sag	0.131	85	5	5	15	52	61	0	61	0.6	2.7	01/05	0					
01/05	2.4 m lintel sag	0.12	85	5	5	5	42	42	0	50	0.4	2.9	01/06	0	0.53	0.02	1.7	0.01	
01/06	1.2 m lintel	0.002	95	5	5	25	0	0	0	83	0.3	3.1	01/07	39	1.93	0.04	1.9	0.05	
01/07	1.8 m lintel	0.104	85	5	5	15	33	31	2	65	0.7	3	33/02	25	1.3	0.05	1.3	0.05	
01/08	1.2 m lintel	0	0	5	5	15	0	0	0	77	0.4	4.6	01/09	26	1.71	0.03	1.74	0.03	
01/09	1.8 m lintel	0.071	95	5	5	25	22	22	0	78	0.7	3	28/01	26	1.73	0.04	2.35	0.03	
01/10	1.8 m lintel	0.091	95	5	5	25	31	30	1	52	0.7	3	01/11	4	0.92	0.01	0.45	0.02	
01/11	2.4 m lintel sag	0.038	85	5	5	5	10	10	0	21	0.1	3	38/01	0					SPLITTER/SPECIAL PIT
01/12	1.8 m lintel	0	0			15	0	0	0	56	0.7	3	01/11	7	1.01	0.02	0.78	0.02	
01/13	1.8 m lintel	0.01	85	5	5	5	3	3	0	0	0.7	3	01/12	0	0	0	0	0	
01/14	1.8 m lintel	0.023	85	5	5	5	8	8	0	40	0.7	3	01/13	3	0.47	0.01	0.43	0.02	
01/15	1.8 m lintel	0.023	95	5	5	15	8	8	0	48	2.2	3	01/14	8	0.75	0.03	0.75	0.03	
01/16	1.2 m lintel	0	0			15	8	8	0	46	2.5	5.2	01/15	8	0.65	0.03	0.75	0.03	
01/17	1.8 m lintel	0	0			25	9	9	0	43	2.1	3	01/18	7	0.55	0.03	0.55	0.03	
01/18	1.8 m lintel	0.02	85	5	5	5	7	7	0	36	2.1	3.1	01/19	4	0.42	0.02	1.09	0.01	
01/19	1.8 m lintel	0.011	95	5	5	15	4	4	0	58	1.8	2.6	01/22	13	1.09	0.03	1.09	0.03	
01/20	2.4 m lintel	0.084	85	5	5	25	39	37	2	87	1.4	3	01/21	35	2.05	0.04	1.96	0.05	
01/21	2.4 m lintel sag	0.167	85	5	5	5	71	74	0	68	0.1	3	01/22	0	0	0	0	0	
01/22	2.4 m lintel sag	0.076	85	5	5	5	24	23	0	35	0.1	3	01/23	0					
02/01	2.4 m lintel sag	0.078	85	5	5	5	65	65	0	63	0.2	3	56/01	0	0	0	0	0	
02/02	2.4 m lintel sag	0.118	85	5	5	5	84	83	0	73	0.2	3	56/02	0	0	0	0	0	
02/03	1.8 m lintel	0	0			25	13	13	0	72	0.5	3	02/02	22	1.55	0.04	1.56	0.04	
02/04	2.4 m lintel sag	0.141	85	5	5	5	4	4	0	11	0.4	1.9	02/03	0	0.29	0.01	1.06	0	
02/05	2.4 m lintel sag	0.081	85	5	5	5	29	29	0	41	0.5	2.3	29/01	0	0	0	0	0	
02/06	1.8 m lintel	0	0			25	3	3	0	67	0.7	4.1	02/05	30	1.37	0.06	1.37	0.06	
02/07	2.4 m lintel sag	0.162	85	5	5	5	62	61	0	61	0.9	3.7	02/06	0	0.21	0	1.37	0	
02/08	2.4 m lintel sag	0.024	85	5	5	5	9	9	0	18	0.1	3	27/01	0					SPLITTER PIT
02/09	1.8 m lintel	0	0			15	3	3	0	58	1	3	02/08	9	1.06	0.02	0.94	0.02	
02/10	2.4 m lintel sag	0.025	95	5	5	5	5	5	0	13	0.4	3.9	02/09	0					EX. ABELL ROAD
02/11	2.4 m lintel sag	0.138	85	5	5	25	52	52	0	56	0.5	2	34/01	0	0	0	0	0	EX. ABELL ROAD
02/12	1.8 m lintel	0	0			5	5	5	0	41	0.9	3	02/13	8	0.49	0.03	0.74	0.03	EX. ABELL ROAD
02/13	1.2 m lintel	0.021	95	5	5	15	8	8	0	48	1.3	3	02/14	5	0.74	0.02	0.68	0.02	
02/14	1.8 m lintel	0.015	85	5	5	15	5	5	0	46	0.6	3	02/15	4	0.68	0.02	0.54	0.02	
02/15	1.8 m lintel	0.013	85	5	5	5	4	4	0	42	0.6	3	02/16	4	0.54	0.01	1.1	0.01	
02/16	1.8 m lintel	0.011	85	5	5	25	4	4	0	59	0.7	3	02/17	10	1.1	0.02	1.55	0.02	
02/17	1.8 m lintel	0.028	85	5	5	15	10	10	0	72	0.7	3	02/18	20	1.55	0.04	1.7	0.03	
02/18	1.8 m lintel	0.058	85	5	5	25	20	20	0	76	0.7	3	02/19	25	1.7	0.04	1.66	0.04	
02/19	1.8 m lintel	0.072	85	5	5	25	25	24	1	74	0.7	3	02/20	22	1.63	0.04	1.58	0.04	
02/20	1.8 m lintel	0.066	85	5	5	25	22	22	0	63	0.7	3	01/22	11	1.25	0.02	1.11	0.03	
03/01	1.8 m lintel	0.077	85	5	5	15	28	27	1	84	0.7	3	03/02	34	1.94	0.05	2.38	0.04	
03/02	2.4 m lintel	0.09	85	5	5	25	34	33	0	97	0.7	3	03/03	40	2.38	0.04	2.07	0.05	
03/03	2.4 m lintel sag	0.2	95	5	5	5	75	77	0	70	0.1	3	55/01	0	0	0	0	0	
03/04	1.8 m lintel	0.017	95	5	5	25	8	8	0	90	0.7	3	03/03	35	2.13	0.04	1.94	0.05	
03/05	1.8 m lintel	0.082	85	5	5	15	29	28	2	54	0.7	3	03/04	8	0.94	0.02	2.13	0.01	
03/06	1.8 m lintel	0.054	95	5	5	25	20	20	0	80	0.7	3	03/05	29	1.81	0.04	1.8	0.04	
03/07	1.2 m lintel	0.003	85	5	5	15	1	1	0	58	1.3	2.3	45/01	16	1.08	0.04	1.08	0.04	
03/08	1.8 m lintel	0.075	85	5	5	25	31	30	1	70	1.3	3	03/09	30	1.47	0.06	1.47	0.06	
03/09	1.8 m lintel	0.078	85	5	5	15	30	29	1	58	2.2	3	03/10	16	1.09	0.04	1.09	0.04	
03/10	2.4 m lintel sag	0.081	85	5	5	5	33	36	0	45	0.9	3.1	45/01	0					
03/11	1.8 m lintel	0.085	85	5	5	15	34	32	2	53	2.6	3.1	03/10	16	0.92	0.05	0.92	0.05	
04/01	2.4 m lintel sag	0.021	95	5	5	5	19	19	0	31	0.9	3	04/01	0	0	0	0	0	
04/02	2.4 m lintel sag	0.16	85	5	5	5	22	22	0	34	0.1	3	25/01	0	0	0	0	0	
04/03	2.4 m lintel sag	0.082	85	5	5	25	74	118	0	89	0.2	3	04/02	0	0	0	0	0	
04/04	1.8 m lintel	0	0			15	29	27	2	66	1	3	04/03	13	1.34	0.03	2.12	0.02	
04/05	2.4 m lintel sag	0.12	85	5	5	5	79	77	0	70	0.2	3	04/04	0	0	0	0	0	
04/06	1.8 m lintel	0.011	85	5	5	25	4	4	0	74	1	3	04/05	10	1.28	0.02	1.57	0.02	
04/07	1.8 m lintel	0.011	95	5	5	25	4	4	0	87	0.7	3	02/07	61	2.06	0.08	2.06	0.08	
05/01	1.8 m lintel	0.038	95	5	5	25	12	12	0	72	0.7	3	03/01	28	1.55	0.05	1.94	0.04	
05/02	1.8 m lintel	0.078	85	5	5	25	29	27	2	92	0.7	3	01/01	46	2.21	0.05	2.21	0.05	
05/03	1.8 m lintel	0.06	85	5	5	25	20	20	0	80	0.7	3	05/02	29	1.81	0.04	2.21	0.03	
05/04	1.2 m lintel	0.005	85	5	5	25	0	0	0	73	0.3	3.8	05/03	22	1.59	0.03	1.81	0.03	
05/05	1.8 m lintel	0.024	95	5	5	25	4	4	0	61	0.7	3	05/01	12	1.19	0.03	1.55	0.02	
05/06	2.4 m lintel	0.127	85	5	5	5	49	47	2	45	0.7	3	05/05	4	0.62	0.02	1.19	0.01	
05/07	1.8 m lintel	0.084	85	5	5	25	32	31	1	91	0.9	3	05/06	49	2.18	0.06	2.18	0.06	EX. ABELL ROAD
05/08	1.8 m lintel	0.022	95	5	5	25	8	8	0	69	3.2	3	05/09	37	1.44	0.07	1.44	0.07	
05/09	1.8 m lintel	0.1	85	5	5	15	37	34	3	58	3.5	3	05/10	19	1.08	0.05	1.08	0.05	
05/10	2.4 m lintel sag	0.079	85	5	5	5	39	39	0	47	0.7	2.4	05/11	0	0.77	0.02	2.31	0.01	
05/11	1.2 m lintel	0	0			15	2	2	0	96	0.7	3	05/12	19	2.34	0.01	1.92	0.02	
05/12	1.8 m lintel	0.054	85	5	5	25	13	13	0	83	0.7	3	14/01	43	1.92	0.06	1.92	0.06	
06/01	2.4 m lintel sag	0.077	85	5	5	25	76	97	0	79	0.2	2	36/01	0	0	0	0	0	
06/02	2.4 m lintel sag	0.075	85	5	5	25	64	85	0	74	0.1	3	06/03	0	0	0	0	0	
06/03	2.4 m lintel sag	0.073	85	5	5	5	8	9	0	19	0.3	3.5	06/04	0	0.86	0.02	2.03	0.01	
06/04	1.2 m lintel	0.005	95	5	5	25	0	0	0	93	0.3	4	06/05	50	2.24	0.05	2.13	0.05	
06/05	2.4 m lintel	0.137	85	5	5	15	42	37	5	61	0.2	2.3	09/01	18	1.16				


I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: 
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD

DATE 14/07/2021 REF 20260-5

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 (-)	BYPASS CHANNEL FLOW (L/s)	U/S FLOW WIDTH (m)	U/S VvD (m/s ²)	D/S FLOW WIDTH (m)	D/S VvD (m/s ²)	COMMENTS
09/03	1.2 m lintel		0	5	5	25	2	2	0	89	1.1	2.1	09/04	49	2.12	0.05	2.12	0.05	
09/04	2.4 m lintel	0.135	85	5	5	15	44	42	2	65	0.7	3	01/04	22	1.29	0.05	1.29	0.05	
10/01	2.4 m lintel sag	0.02	85	5	5	5	30	30	0	42	0.6	3.1	07/01	0	0	0	0	0	
10/02	2.4 m lintel sag	0.036	85	5	5	5	53	52	0	56	0.7	3	07/02	0	0	0	0	0	
10/03	1.2 m lintel		0			15	3	3	0	34	0.8	2.1	10/02	5	0.4	0.03	1	0.01	
10/04	2.4 m lintel sag	0.03	95	5	5	25	12	62	0	61	0.1	3	02/04	3	0.42	0.01	0.41	0.02	
11/01	1.8 m lintel	0.076	85	5	5	25	29	28	1	90	0.7	3	11/02	44	2.16	0.05	2.16	0.05	
11/02	1.8 m lintel	0.115	85	5	5	15	44	40	4	83	0.7	3	11/03	33	1.93	0.05	2.17	0.04	
11/03	1.8 m lintel	0.08	85	5	5	25	33	32	2	91	0.7	3	11/04	44	2.17	0.05	2.17	0.05	
11/04	1.8 m lintel	0.117	85	5	5	25	44	40	4	79	0.7	3	03/08	31	1.78	0.05	1.78	0.05	
12/01	1.8 m lintel	0.077	95	5	5	25	32	31	1	87	0.9	3	63/01	39	2.06	0.05	2.05	0.05	
13/01	2.4 m lintel sag		0			5	109	105	0	83	0.1	3	54/01	0	0	0	0	0	EX. ABELL ROAD
13/02	2.4 m lintel sag		0			5	27	27	0	39	0.1	3	13/03	0	0	0	0	0	EX. ABELL ROAD
13/03	1.8 m lintel		0			5	9	9	0	41	1	3	13/04	8	0.48	0.03	1.44	0.02	EX. ABELL ROAD
13/04	1.2 m lintel	0.022	95	5	5	25	8	8	0	69	3.2	3	53/01	38	1.44	0.07	1.44	0.07	
14/01	1.8 m lintel	0.116	85	5	5	25	43	39	4	82	0.7	3	14/02	31	1.88	0.04	1.86	0.04	
14/02	1.8 m lintel	0.076	85	5	5	25	31	29	2	72	0.7	3	14/03	20	1.55	0.04	2	0.03	
14/03	1.8 m lintel	0.05	85	5	5	25	20	20	0	85	0.7	3	58/01	36	2	0.05	2.19	0.04	
15/01	1.8 m lintel	0.084	85	5	5	25	32	31	1	65	1.2	3	15/02	16	1.29	0.03	1.29	0.03	
15/02	2.4 m lintel sag	0.063	85	5	5	5	18	20	0	32	0.6	3.7	05/04	0	0.36	0.01	1.59	0	
15/03	2.4 m lintel sag	0.113	85	5	5	15	44	42	0	56	0.6	1.7	15/02	0					
15/04	2.4 m lintel	0.127	85	5	5	15	46	44	2	57	0.7	3	15/03	16	1.02	0.04	1.02	0.04	
16/01	2.4 m lintel sag		0			5	24	24	0	36	0.1	3	08/01	0	0	0	0	0	EX. ABELL ROAD
16/02	2.4 m lintel sag		0			5	27	27	0	39	0.1	3	08/02	0	0	0	0	0	EX. ABELL ROAD
16/03	1.8 m lintel	0.015	95	5	5	15	6	6	0	42	0.7	3	05/08	8	0.53	0.03	1.44	0.02	EX. ABELL ROAD
17/01	1.8 m lintel		0			5	6	6	0	73	0.7	3	17/02	21	1.58	0.04	1.63	0.03	
17/02	1.8 m lintel	0.057	85	5	5	15	21	21	0	75	0.7	3	17/03	23	1.63	0.04	1.8	0.03	
17/03	1.8 m lintel	0.061	85	5	5	15	23	22	1	79	0.7	3	17/04	20	1.8	0.03	1.5	0.04	
17/04	2.4 m lintel sag	0.077	85	5	5	5	24	24	0	36	0.2	1.7	01/08	0	0.5	0.02	1.28	0.01	
18/01	2.4 m lintel sag		0			5	60	60	0	60	0.2	3	13/01	0	0	0	0	0	EX. ABELL ROAD
18/02	1.8 m lintel		0			15	10	10	0	46	0.3	3	18/03	8	0.67	0.03	1.96	0.01	EX. ABELL ROAD
18/03	1.2 m lintel	0.022	95	5	5	25	8	8	0	84	1.3	3	47/01	37	1.96	0.05	1.96	0.05	
19/01	2.4 m lintel sag	0.128	95	5	5	25	50	53	0	57	0.1	3	02/10	5	0.67	0.02	0.54	0.02	EX. ABELL ROAD
19/02	2.4 m lintel sag	0.156	95	5	5	25	60	60	0	60	0.1	3	02/12	0	0	0	0	0	EX. ABELL ROAD
20/01	1.8 m lintel		0			15	43	37	6	77	1.2	3	20/02	33	1.73	0.05	1.73	0.05	
20/02	1.8 m lintel	0.078	85	5	5	25	33	32	2	75	1.2	3	15/03	28	1.63	0.05	1.63	0.05	
21/02	H.W.					5	0	0	0	0									HIGH FLOW OUTLET HW
22/01	2.4 m lintel sag	0.025	95	5	5	15	10	12	0	22	0.4	2.9	05/05	0	0	0	0	0	
22/02	2.4 m lintel sag	0.066	85	5	5	25	25	28	0	40	0.4	2.9	05/05	0	0	0	0	0	
23/01	1.8 m lintel	0.058	85	5	5	25	22	21	0	99	0.7	3	23/02	50	2.47	0.05	2.29	0.06	
23/02	3.0 m lintel sag	0.241	85	5	5	5	90	91	0	68	0.1	3	01/11	0					
24/01	1.8 m lintel	0.017	95	5	5	15	8	8	0	62	0.7	3	51/01	22	1.22	0.05	1.22	0.05	
25/01	2.4 m lintel		0			15	46	45	1	41	0.7	3	36/01	7	0.49	0.03	0.49	0.03	
26/01	2.4 m lintel	0.121	85	5	5	15	43	41	3	71	2.2	3	03/11	34	1.51	0.06	1.51	0.06	
27/01	NODE		0			5	0	0	0	0		2.5	LOST	0	0	0	0	0	INTERNAL WEIR/DROP
27/02	H.W.					5	0	0	0	0									
28/01	1.8 m lintel	0.079	85	5	5	25	29	27	2	93	0.7	3	23/02	34	2.34	0.05	1.91	0.05	
29/01	1.8 m lintel		0			15	29	27	2	45	1	3	02/01	4	0.64	0.02	1.24	0.02	
30/01	1.8 m lintel		0			15	28	28	1	70	1	3	39/01	19	1.49	0.03	1.61	0.03	
31/01	1.8 m lintel	0.084	85	5	5	25	32	29	3	76	0.6	2.6	48/01	35	1.67	0.06	1.67	0.06	
32/01	1.8 m lintel		0			25	14	14	0	77	1.2	3	26/01	43	1.71	0.07	1.71	0.07	EX. ABELL ROAD
33/01	1.8 m lintel	0.087	85	5	5	25	33	30	3	73	0.7	3	33/02	19	1.57	0.03	1.48	0.04	
33/02	2.4 m lintel sag	0.108	85	5	5	15	44	53	0	56	0.6	2.7	17/04	0					
34/01	2.4 m lintel sag		0			5	22	21	0	33	0.9	1.4	30/01	0	0	0	0	0	
35/01	2.4 m lintel	0.123	85	5	5	25	47	46	1	86	0.7	3	01/05	36	2.02	0.05	1.98	0.05	
36/01	2.4 m lintel sag	0.076	85	5	5	15	7	11	0	21	0.8	3	06/03	0	0	0	0	0	
37/01	1.8 m lintel	0.034	95	5	5	25	13	13	0	68	0.7	3	03/06	20	1.42	0.04	1.81	0.03	
38/02	H.W. STACKED ROCK					5	0	0	0	0									
39/01	2.4 m lintel sag	0.102	85	5	5	5	87	86	0	74	0.1	3	20/01	0	0	0	0	0	
40/01	1.8 m lintel		0			15	26	25	1	77	0.7	3	46/01	25	1.71	0.04	1.76	0.04	
41/01	2.4 m lintel sag	0.021	95	5	5	5	12	12	0	23	0.2	3	44/01	0	0	0	0	0	
42/01	1.8 m lintel		0			25	26	25	1	85	0.7	3	57/01	36	1.99	0.05	1.99	0.05	
43/01	1.8 m lintel	0.062	95	5	5	15	24	23	1	64	0.7	3	55/01	9	1.28	0.02	0.94	0.02	
44/01	2.4 m lintel sag		0			5	16	16	0	28	0.2	3	04/01	0	0	0	0	0	
45/01	2.4 m lintel sag	0.051	85	5	5	5	16	16	0	27	0.6	3	42/01	0	0	0	0	0	
46/01	1.8 m lintel	0.08	95	5	5	15	25	25	1	78	0.7	3	49/01	27	1.76	0.04	1.78	0.04	
47/01	1.8 m lintel	0.099	85	5	5	25	37	33	4	81	0.7	3	12/01	32	1.84	0.05	2.06	0.04	
48/01	1.8 m lintel	0.087	85	5	5	5	35	32	4	35	0.7	3	LOST	3	0.4	0.01	0.4	0.01	
49/01	1.8 m lintel	0.079	95	5	5	15	27	26	1	79	0.7	3	50/01	28	1.78	0.04	1.86	0.04	
50/01	1.8 m lintel	0.079	95	5	5	15	28	27	1	81	0.7	3	01/10	30	1.86	0.04	1.81	0.04	
51/01	2.4 m lintel sag	0.135	85	5	5	5	53	58	0	60	0.6	2.9	05/10	0					
52/01	1.8 m lintel		0			25	41	38	3	77	1	3	09/02	29	1.71	0.04	1.71	0.04	
53/01	1.8 m lintel	0.1	85	5	5	25	38	35	3	67	3.3	3	51/01	31	1.38	0.06	1.38	0.06	
54/01	1.8 m lintel		0			25	35	32	4	89	0.9	3	15/04	46	2.13	0.06	2.13	0.06	
55/01	2.4 m lintel sag	0.03	85	5	5	5	9	8	0	18	0	2.8	17/01	0	0	0	0	0	
56/01	1.8 m lintel		0			25	28	26	2	68	1	3	06/01	13	1.41	0.03	1.79	0.02	
56/02	1.8 m lintel		0			15	28	27	2	64	1	3	06/02	13	1.27	0.03	1.6	0.02	
57/01	2.4 m lintel	0.099	85	5	5	25	36	36	1	73	0.7	3	23/01	22	1.59	0.04	2.47	0.02	
58/01	1.8 m lintel	0.098	85	5	5	25	36	34	2	91	0.7	3	01/21	36	2.19				

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: 
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 14/07/2021 REF 20260-5

DESIGN STORM 10% AEP HYDROLOGIC RESULTS

PIT NAME	PIT TYPE	CATCHMENT AREA (Ha)	PERCENT IMPERVIOUS (%)	Tc (min)	Tc (min)	CRITICAL PERV (%)	STORM FLOW (L/s)	CAPTURED FLOW (L/s)	UNCAPTURED FLOW (L/s)	GRATE DEPTH (mm)	ROAD GRADE (%)	ROAD CROSSFALL (%)	BYPASS PIT (L/s)	BYPASS CHANNEL FLOW (L/s)	U/S FLOW WIDTH (m)	U/S Vx/D (m/s ²)	D/S FLOW WIDTH (m)	D/S Vx/D (m/s ²)	COMMENTS
zBP12/01	BYPASS NODE	0.114	85	5	5	25	43	0	0	86	0	3	20/01	43	2.02	0.06	2.02	0.06	
zBP13/01	BYPASS NODE	0.105	85	5	5	25	40	0	0	96	0	3	10/02	48	2.36	0.05	2.24	0.05	
zBP14/01	BYPASS NODE	0.061	85	5	5	25	23	0	0	84	0	3	10/01	30	1.97	0.04	1.83	0.04	
zBP15/01	BYPASS NODE	0.161	85	5	5	25	61	0	0	100	0.2	3	07/01	60	2.5	0.06	2.47	0.06	
zBP16/01	BYPASS NODE	0.149	85	5	5	25	57	0	0	98	0.2	3	07/02	56	2.42	0.06	2.39	0.06	
zBP17/01	BYPASS NODE	0.119	85	5	5	25	45	0	0	98	0.2	3	07/01	44	2.41	0.05	2.17	0.05	
zBP18/01	BYPASS NODE	0.119	85	5	5	25	45	0	0	98	0.2	3	07/02	44	2.41	0.05	2.17	0.05	
zBP19/01	BYPASS NODE	0.11	85	5	5	25	42	0	0	88	0	3	52/01	41	2.08	0.05	2.08	0.05	
zBP20/01	BYPASS NODE	0.122	85	5	5	25	46	0	0	108	0	3	02/01	62	1.89	0.06	1.89	0.06	
zBP21/01	BYPASS NODE	0.11	85	5	5	25	42	0	0	88	0.2	3	07/03	41	2.07	0.05	2.07	0.05	
zBP22/01	BYPASS NODE	0.125	85	5	5	25	47	0	0	93	0.2	2.9	25/01	46	2.24	0.05	2.21	0.05	
zBP23/01	BYPASS NODE	0.072	85	5	5	15	27	0	0	78	0.3	1.9	40/01	26	1.75	0.04	1.71	0.04	
zBP24/01	BYPASS NODE	0.116	85	5	5	25	44	0	0	105	0.1	3	04/03	61	1.85	0.06	1.85	0.06	
zBP25/01	BYPASS NODE	0.013	85	5	5	15	5	0	0	49	0.1	3	44/01	5	0.77	0.02	0.59	0.02	
zBP26/01	BYPASS NODE	0.076	85	5	5	25	29	0	0	80	0.2	3	04/04	29	1.8	0.04	1.78	0.04	
zBP27/01	BYPASS NODE	0.019	85	5	5	15	7	0	0	53	0.2	3	44/01	7	0.9	0.02	0.81	0.02	
zBP28/01	BYPASS NODE	0.092	85	5	5	25	35	0	0	101	0.1	3	04/05	52	1.68	0.05	1.68	0.05	
zBP29/01	BYPASS NODE	0.012	85	5	5	25	5	0	0	65	0.1	3	41/01	12	1.32	0.03	1.38	0.03	
zBP30/01	BYPASS NODE	0.057	95	5	5	15	22	0	0	68	0.1	3	34/01	22	1.4	0.04	1.4	0.04	
zBP31/01	BYPASS NODE	0.076	85	5	5	25	29	0	0	80	0	3	56/02	28	1.83	0.04	1.77	0.04	
zBP32/01	BYPASS NODE	0.009	95	5	5	5	3	0	0	35	0.1	3	02/09	3	0.4	0.02	1.06	0.01	
zBP33/01	BYPASS NODE	0.038	85	5	5	25	15	0	0	66	0	3	08/01	14	1.35	0.03	1.25	0.03	EX. ABELL ROAD
zBP34/01	BYPASS NODE	0.042	85	5	5	15	16	0	0	68	0.1	3	08/02	16	1.42	0.03	1.33	0.03	EX. ABELL ROAD
zBP35/01	BYPASS NODE	0.028	85	5	5	15	11	0	0	64	0	3	16/01	10	1.29	0.02	1.06	0.03	EX. ABELL ROAD
zBP36/01	BYPASS NODE	0.031	85	5	5	15	12	0	0	67	0	3	16/02	11	1.36	0.02	1.12	0.03	EX. ABELL ROAD
zBP37/01	BYPASS NODE	0.028	85	5	5	25	11	0	0	65	0	3	08/01	10	1.3	0.02	1.05	0.03	EX. ABELL ROAD
zBP38/01	BYPASS NODE	0.031	85	5	5	15	12	0	0	66	0	3	08/02	11	1.35	0.02	1.12	0.03	EX. ABELL ROAD
zBP39/01	BYPASS NODE	0.039	85	5	5	25	15	0	0	64	0.1	3	32/01	14	1.28	0.03	1.71	0.02	EX. ABELL ROAD
zBP40/01	BYPASS NODE	0.042	85	5	5	15	16	0	0	67	0	3	08/03	16	1.39	0.03	1.33	0.03	EX. ABELL ROAD
zBP41/01	BYPASS NODE	0.165	85	5	5	25	63	0	0	101	0	3	13/01	61	2.25	0.06	2.25	0.06	EX. ABELL ROAD
zBP42/01	BYPASS NODE	0.074	85	5	5	15	28	0	0	81	0	3	56/01	28	1.83	0.04	1.76	0.04	
zBP43/01	BYPASS NODE	0.127	85	5	5	25	48	0	0	99	0	3	13/01	47	2.47	0.05	2.23	0.05	EX. ABELL ROAD
zBP44/01	BYPASS NODE	0.032	85	5	5	15	12	0	0	67	0	3	13/02	12	1.38	0.02	1.14	0.03	EX. ABELL ROAD
zBP45/01	BYPASS NODE	0.025	85	5	5	15	9	0	0	57	0	3	13/03	9	1.05	0.02	1	0.03	EX. ABELL ROAD
zBP46/01	BYPASS NODE	0.094	85	5	5	25	36	0	0	77	0	3	54/01	35	1.71	0.05	2.13	0.05	EX. ABELL ROAD
zBP47/01	BYPASS NODE	0.013	85	5	5	15	5	0	0	52	0	3	02/12	5	0.85	0.02	0.6	0.02	EX. ABELL ROAD
zBP48/01	BYPASS NODE	0.043	85	5	5	15	16	0	0	73	0	1.5	04/01	19	1.58	0.03	1.45	0.03	
zBP49/01	BYPASS NODE	0.022	85	5	5	15	8	0	0	75	0.3	2.8	04/02	22	1.66	0.04	1.58	0.04	
zBP50/01	BYPASS NODE	0.13	85	5	5	25	49	0	0	110	-0.1	3	39/01	68	2.03	0.06	2.03	0.07	
zBP51/01	BYPASS NODE	0.041	85	5	5	25	16	0	0	68	0	3	13/02	15	1.41	0.03	1.31	0.03	EX. ABELL ROAD
zBP52/01	BYPASS NODE	0.161	85	5	5	25	61	0	0	104	0.3	3	18/01	60	2.21	0.06	2.21	0.06	EX. ABELL ROAD
zBP53/01	BYPASS NODE	0.094	85	5	5	25	36	0	0	101	0.1	3	06/02	51	1.77	0.05	2.31	0.06	
zBP54/01	BYPASS NODE	0.028	85	5	5	25	11	0	0	63	0	3	18/02	10	1.25	0.02	1.06	0.03	EX. ABELL ROAD
zBP55/01	BYPASS NODE	0.042	85	5	5	15	16	0	0	68	0.1	3	16/02	16	1.41	0.03	1.33	0.03	EX. ABELL ROAD
zBP56/01	BYPASS NODE	0.038	85	5	5	15	14	0	0	66	0.1	3	16/01	14	1.34	0.03	1.25	0.03	EX. ABELL ROAD
zBP57/01	BYPASS NODE	0.016	95	5	5	15	6	0	0	56	0.5	2.7	05/10	14	1.02	0.04	1.02	0.04	
zBP58/01	BYPASS NODE	0.022	85	5	5	15	8	0	0	42	0.3	3	01/16	8	0.54	0.03	0.65	0.03	
zBP59/01	BYPASS NODE	0.025	85	5	5	25	10	0	0	45	1.6	3	01/17	9	0.64	0.04	0.64	0.04	EX. ABELL ROAD
zBP60/01	BYPASS NODE	0.07	85	5	5	25	27	0	0	74	0.5	1.8	42/01	26	1.6	0.04	1.99	0.03	
zBP61/01	BYPASS NODE	0.016	95	5	5	5	6	0	0	42	0.3	2.5	17/01	6	0.55	0.02	1.58	0.01	
zBP62/01	BYPASS NODE	0.004	95	5	5	15	2	0	0	67	0.3	2	09/03	2	1.38	0	2.12	0	
zBP63/01	BYPASS NODE	0.018	95	5	5	25	7	0	0	62	0.1	1.5	09/02	15	1.22	0.03	1.22	0.03	
zBP64/01	BYPASS NODE	0.126	85	5	5	25	48	0	0	115	0.1	3	06/01	63	3	0.05	2.53	0.06	
zBP65/01	BYPASS NODE	0.003	95	5	5	5	2	0	0	76	0.3	3	05/11	2	1.67	0	2.34	0	
zBP66/01	BYPASS NODE	0.076	85	5	5	25	29	0	0	81	0	3	30/01	28	1.85	0.04	1.78	0.04	
zBP67/01	BYPASS NODE	0.008	85	5	5	5	3	0	0	41	0	3	02/06	3	0.51	0.01	1.37	0.01	
zBP68/01	BYPASS NODE	0.077	85	5	5	15	29	0	0	83	0.2	3	29/01	29	1.9	0.04	1.79	0.04	




Printed: 25 April, 2020 3:45:30 PM File Name: J:\9885DCC - Construction Certificate Approval Plans\PK1 - CENTRAL - PRECINCT 5\PRECINCT 5 DOCUMENTATION\988511CC460.dwg

These plans are referred to in certificate no. **15879** approved by:
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPB 3015
 Categories: B1, C1, C2, C3, C4, C5 & C15
 Land Development Certificates
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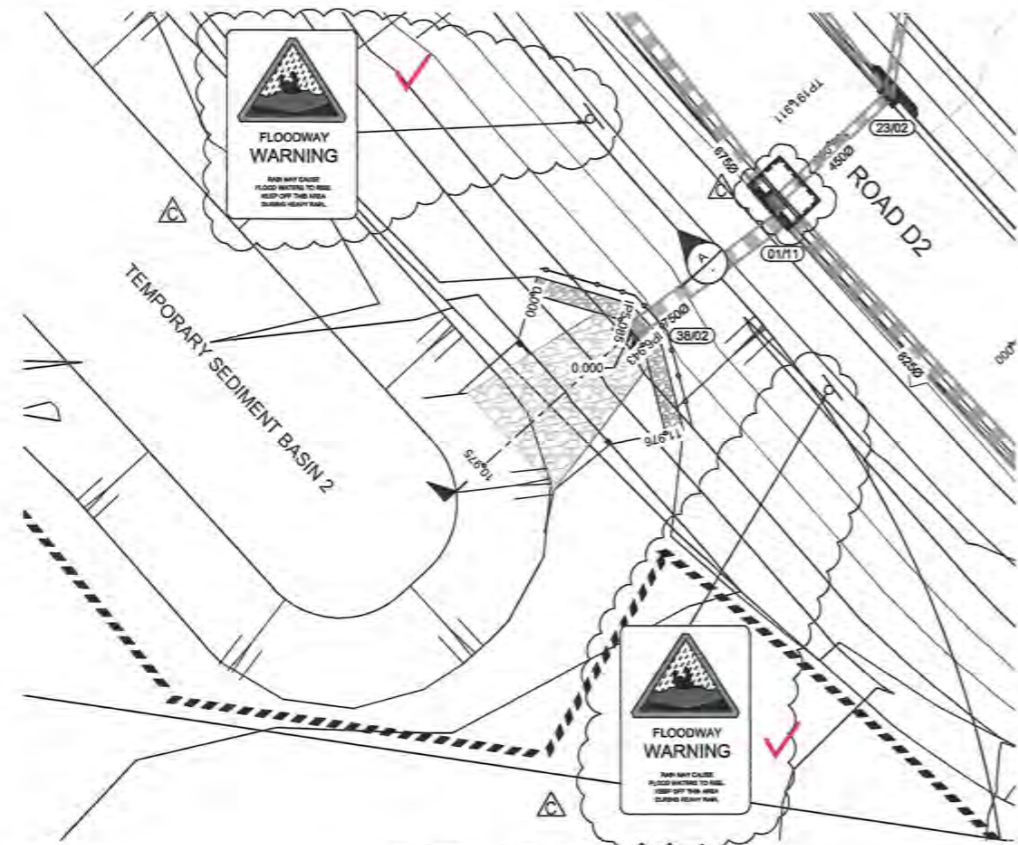
AMENDMENT	DES	DRN	CKD	APR	DATE
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C ISSUE FOR CONSTRUCTION APPROVAL	DG	VS	RO	MS	26/09/19
B ISSUE FOR CAA APPROVAL	DG	NM/UM	RO	MS	12/09/19
A ISSUE FOR CONSTRUCTION APPROVAL	DG	JM	RO	MS	02/09/19

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 jw@jwprince.com.au

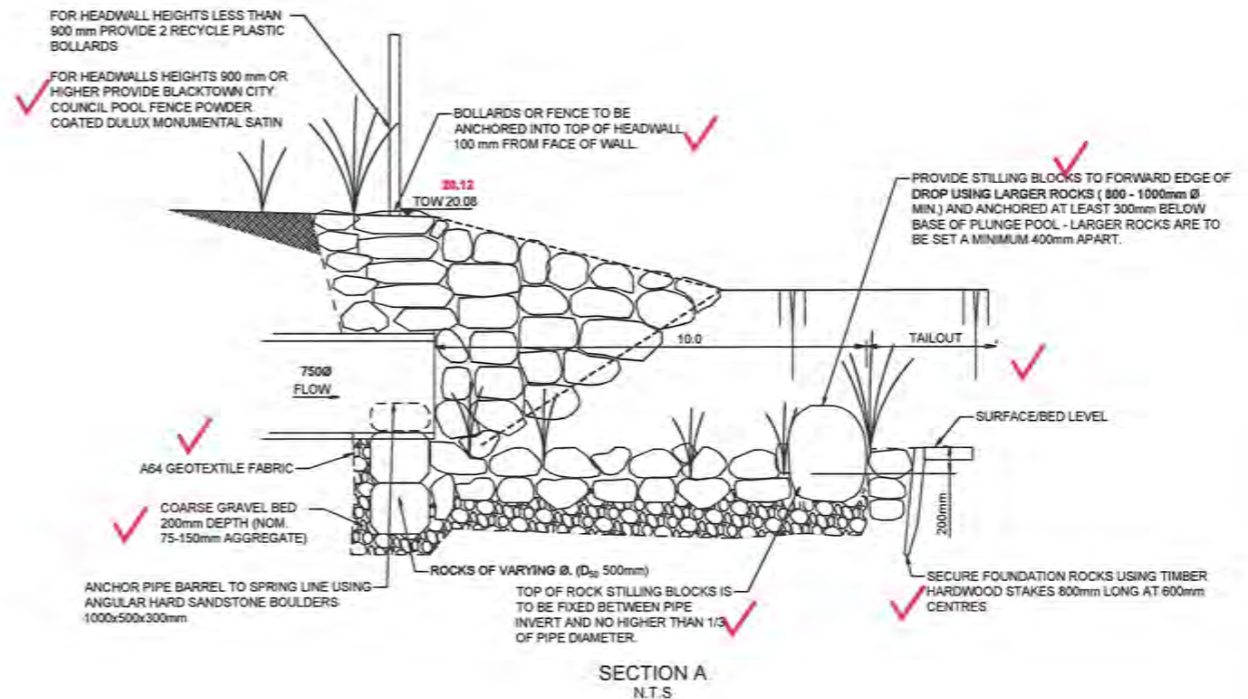
CLIENT:  WINTAN PROPERTY GROUP	ISSUE FOR CONSTRUCTION APPROVAL	
	NEWPARK PRECINCT 5 DRAINAGE CALCULATIONS SHEET 3	PLAN No: 998511/CC460 D FILE No: 998511CC460 SHEET SIZE: A1 ORIGINAL

AZIMUTH:
AHD
 DATUM:
MGA
 ORIGIN:
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Plotted: 27 September, 2018 8:20:27 AM File Name: J:\198511\CC468 - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCTS\PRECINCT 5 DOCUMENTATION\998511 CC468.dwg




HEADWALL 1 PLAN
SCALE 1:200



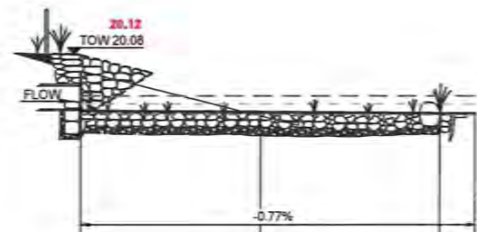
SECTION A
N.T.S.

TAILWATER LEVEL SUMMARY	
EVENT	TWL (m AHD)
10% AEP	19.06
0.5 EY	18.84
4 EY	18.54

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: 
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 14/07/2021 REF 20260-5



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

DATUM 11.0				
DESIGN LINE GRADING	0.000	5.000	10.000	10.975
EXISTING SURFACE	18.753	18.503	18.567	18.595
CHAINAGE	0.000	5.000	10.000	10.975

TAILOUT 1		
CHAINAGE	EASTING	NORTHING
0	295894.50	6268455.04
10.98	295878.84	6268448.89


HEADWALL 1 (BASE)			
CHAINAGE	EASTING	NORTHING	BEARING
0	295879.51	6268458.16	108°05'50.42"
5.08	295884.39	6268456.75	
8.94	295885.64	6268455.37	
11.98	295886.51	6268450.49	185°22'44.75"


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Christopher Louis Wahbe
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 Registration No: BPS 3015
 Categories: B1, C1, C2, C3, C4, C6 & C15
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LONGITUDINAL SECTION HEADWALL 1				
CHAINAGE	EXISTING SURFACE	TOP OF HEADWALL	BASE OF HEADWALL	DATUM 12.0
0.000	18.193	18.87	18.83	
3.756	19.590	18.25	18.65	
5.000	19.751	20.18	18.657	
6.013	19.759	20.12	18.650	
8.203	19.611	19.82	18.606	
10.000	19.452	19.77	18.7	
11.976	19.173	19.05	18.7	

LONGITUDINAL SECTION HEADWALL 1
HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100

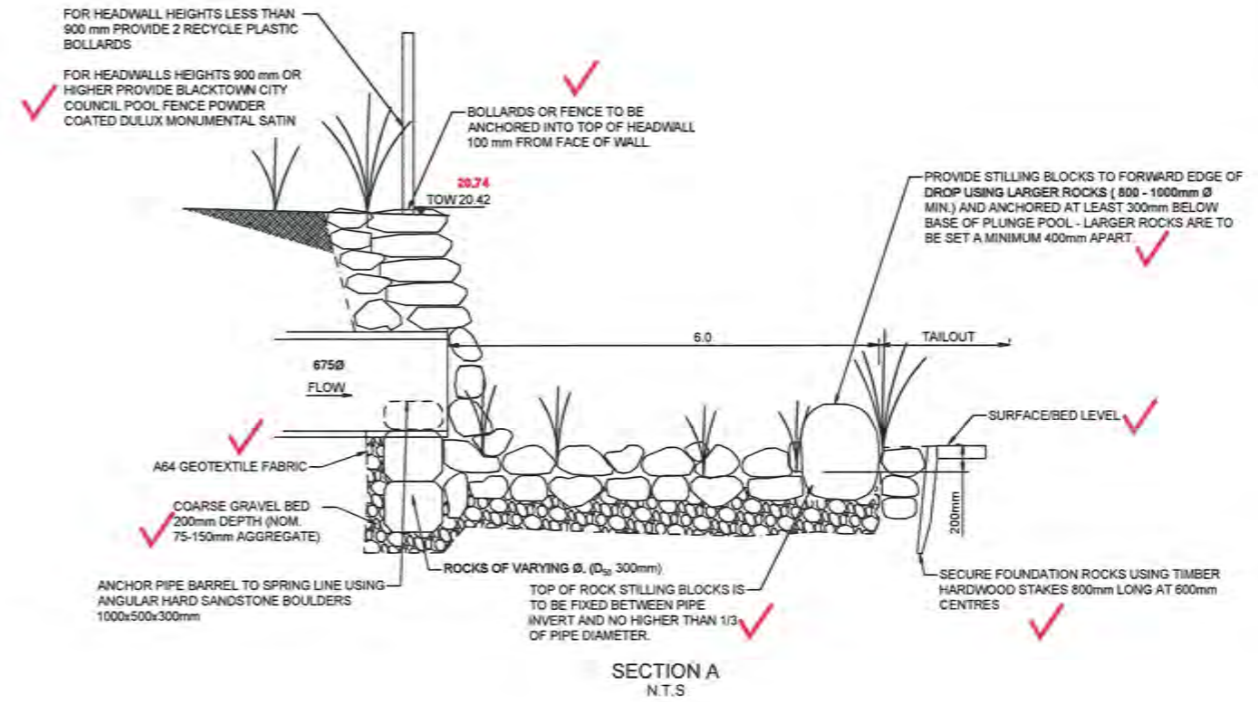
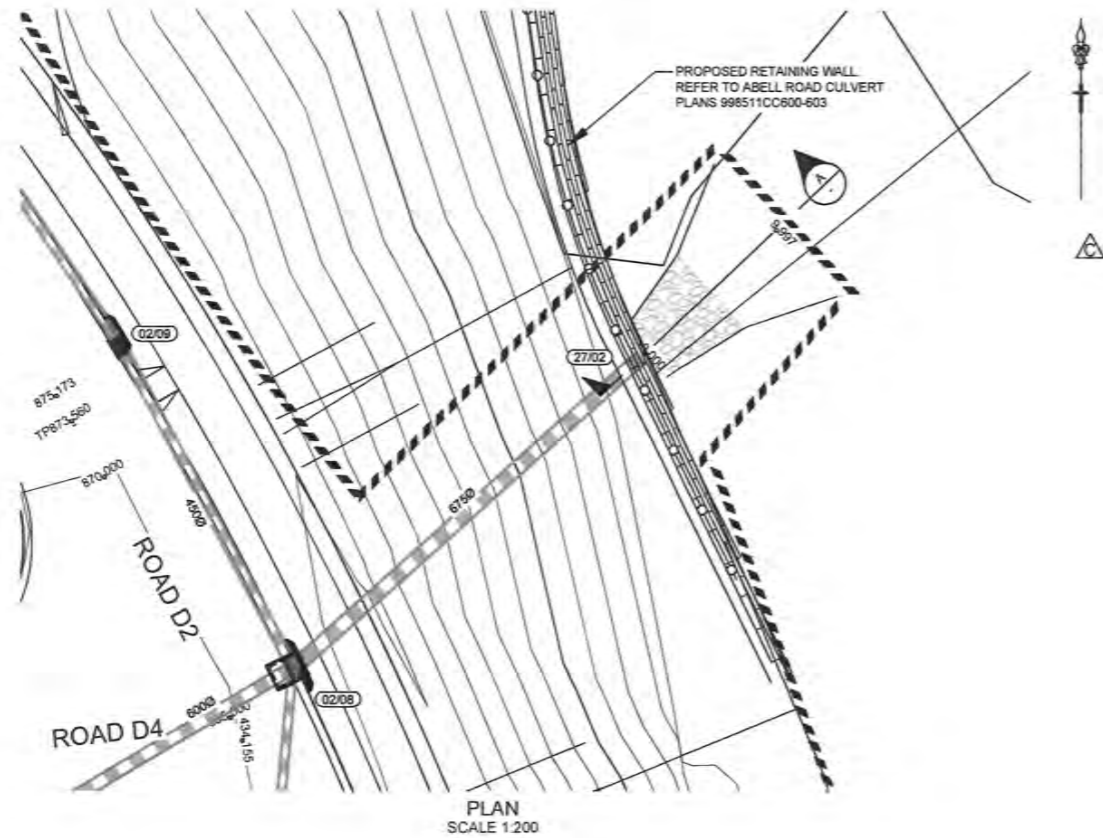


CLIENT:  WINTEN PROPERTY GROUP	ISSUE FOR CONSTRUCTION APPROVAL	
THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.	NEWPARK PRECINCT 5 TAILOUT PLAN & DETAILS	
	PLAN No: 998511/CC468	C
	FILE No: 998511CC468 SHEET SIZE: A1 ORIGINAL	

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
 PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4772 3300 W www.jwyndham.com.au E j@jwyndham.com.au

AMENDMENT	DES	DRN	CKD	APR	DATE
C	DG	VS	RO	MS	26/09/19
B	DG	NMUM	RO	MS	12/09/19
A	DG	JM	RO	MS	02/09/19

Plotter: 26 September, 2019 3:02:04 PM File Name: J:\998511\CC - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCTS\PRECINCT 5 DOCUMENTATION\998511 CC469.dwg



DESIGN LINE GRADING	18.84	19.22	19.10
EXISTING SURFACE	19.081	19.022	18.938
CHAINAGE	0.000	5.000	9.997

DATUM 12.0

LONGITUDINAL SECTION TAILOUT 2
HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100

EVENT	TWL (m AHD)
10% AEP	19.81
0.5 EY	19.53
4 EY	19.19

CHAINAGE	EASTING	NORTHING	BEARING
0	296300.83	6268936.21	46°58'29.43"
10	296308.14	6268943.03	46°58'29.43"

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

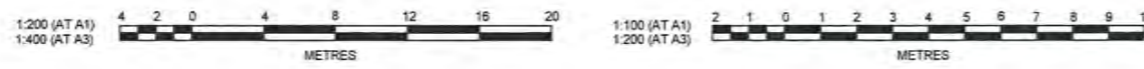
Signature:

PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD

DATE 14/07/2021 REF 20260-5

These plans are referred to in certificate no. **15879** approved by:

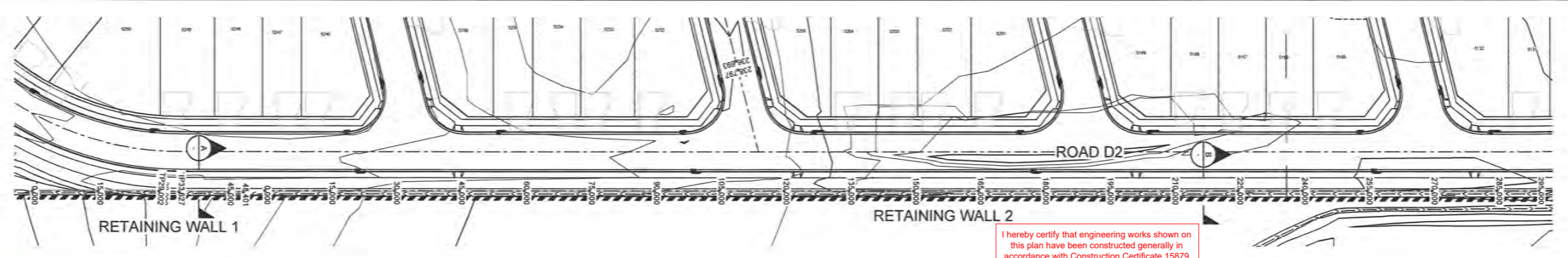
LDC
Christopher Louis Wahbe
Accredited Certifier
Registration No: BPS 3015
Categories: B1, C1, C2, C3, C4, C6 & C15
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 WINTEN PROPERTY GROUP	ISSUE FOR CONSTRUCTION APPROVAL	
	NEWPARK PRECINCT 5 TAILOUT PLAN & DETAILS	PLAN No: 998511/CC469 C FILE No: 998511CC469 SHEET SIZE: A1 ORIGINAL

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					
AMENDMENT	DES	DRN	CKD	APR	DATE
C	DG	VS	RO	MS	26/09/19
B	DG	NM/JM	RO	MS	12/09/19
A	DG	JM	RO	MS	02/09/19

Plotted: 26 September, 2019 3:02:31 PM File Name: J:\998511\CC470.dwg CENTRAL PRECINCT\PRECINCT 5 DOCUMENTATION\998511\CC470.dwg



PLAN
SCALE 1:500

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: *Peter Robert Warwick*
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

These plans are referred to a certificate no. **15879** approved by:

Christopher Louis Wahbe
 Accredited Certifier

Registration No: BPS 3015
 Categories: B1, C1, C2, C3, C4, C5 & C15

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NOTES:

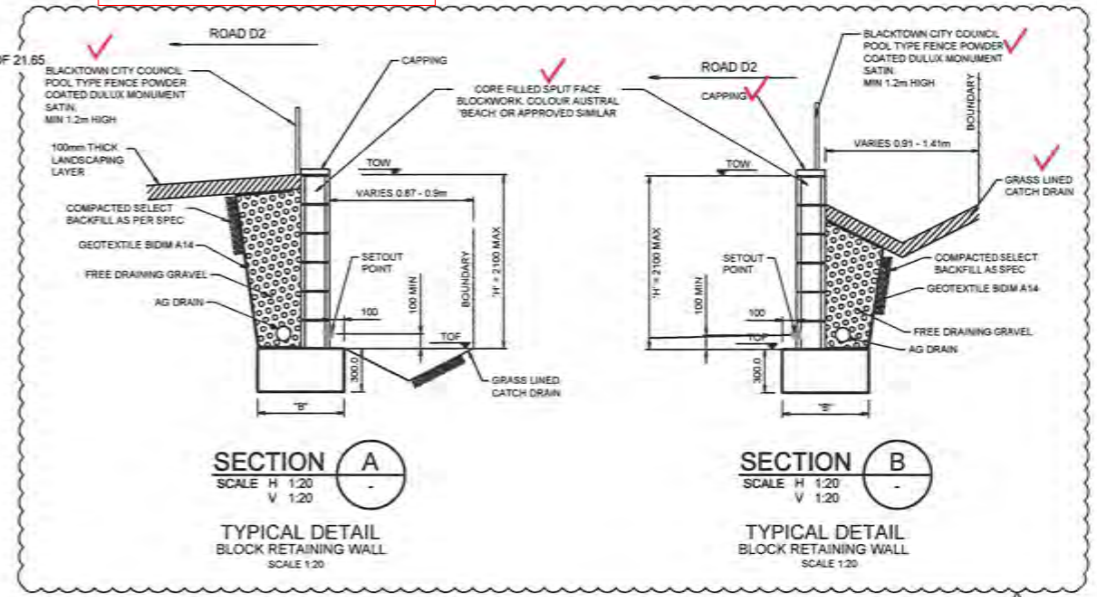
- TOW DOES NOT INCLUDE CAPPING
- TRANSITION TOP OF WALL GROUND LEVELS AND TOE OF WALL GROUND LEVELS ON EITHER END OF WALL

RETAINING WALL 1 (FACE OF WALL)					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	LENGTH
0	295614.68	6268427.54	98°03'47.56"		
28.86	295643.25	6268423.49			
29	295643.39	6268423.49	101°32'21.05"		
31.25	295645.6	6268423.01			
33.51	295647.84	6268422.68	98°16'28.83"	-79.2	4.51
33.63	295647.95	6268422.67			
48.4	295682.57	6268420.56	98°11'33.75"		

RETAINING WALL 2 (FACE OF WALL)			
CHAINAGE	EASTING	NORTHING	BEARING
0	295667.56	6268420.15	98°11'33.75"
295	296259.55	6268378.11	98°11'33.75"

CHAINAGE	TOP OF WALL GROUND LEVELS	TOE OF WALL GROUND LEVELS
0.000	20.42	20.30
1.500	20.25	20.25
4.500	20.7	20.4
5.000	20.79	20.4
6.300	21.12	20.4
7.200	21.12	20.610
10.000	21.52	20.85
11.400	21.70	20.85
13.800	21.88	21.11
15.900	21.88	21.11
17.700	21.79	21.12
20.000	21.52	21.12
21.600	21.52	21.12
25.000	21.52	21.12
28.200	21.52	21.12
30.000	21.52	21.12
33.600	21.52	21.12
35.000	21.52	21.12
39.900	21.52	21.12
40.000	21.52	21.12
45.000	21.52	21.12
45.900	21.52	21.12
46.402	21.52	21.12

LONGITUDINAL SECTION RETAINING WALL 1
 HORIZONTAL SCALE 1:200
 VERTICAL SCALE 1:100

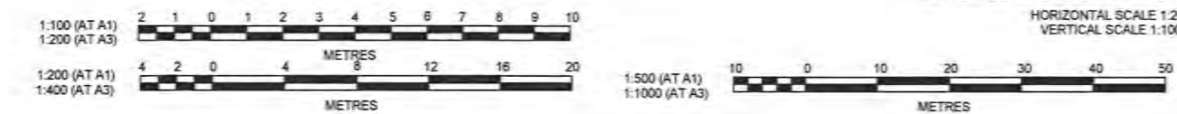


SECTION A
 SCALE H 1:20
 V 1:20
 TYPICAL DETAIL
 BLOCK RETAINING WALL
 SCALE 1:20

SECTION B
 SCALE H 1:20
 V 1:20
 TYPICAL DETAIL
 BLOCK RETAINING WALL
 SCALE 1:20

CHAINAGE	TOP OF WALL GROUND LEVELS	TOE OF WALL GROUND LEVELS
0.000	22.08	21.8
0.600	22.08	21.8
5.000	22.38	21.8
7.500	22.57	21.8
10.000	22.78	21.8
14.000	22.94	21.8
15.000	22.94	21.8
20.000	23.14	21.8
22.500	23.14	21.8
25.000	23.38	22.0
27.000	23.38	22.0
30.000	23.58	22.0
32.700	23.58	22.0
35.000	23.58	22.0
40.000	23.58	22.0
43.200	23.58	22.0
45.000	23.58	22.0
50.000	23.76	22.0
55.000	23.76	22.0
56.400	23.76	22.0
60.000	23.76	22.0
65.000	23.76	22.0
70.000	23.76	22.0
75.000	23.76	22.0
80.000	23.76	22.0
80.100	23.76	22.0
84.800	23.76	22.0
85.000	23.76	22.0
90.000	23.76	22.0
95.000	23.76	22.0
100.000	23.76	22.0
105.000	23.76	22.0
110.000	23.76	22.0
113.400	23.76	22.0
115.000	23.76	22.0
120.000	23.76	22.0
128.000	23.76	22.0
128.100	23.76	22.0
130.000	23.76	22.0
135.000	23.76	22.0
140.000	23.76	22.0

LONGITUDINAL SECTION RETAINING WALL 2
 HORIZONTAL SCALE 1:200
 VERTICAL SCALE 1:100



AMENDMENT	DES	DRN	CHK	APR	DATE
C	DG	VS	RO	MS	26/09/19
B	DG	NMUM	RO	MS	12/08/19
A	DG	SM	RO	MS	02/09/19

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

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

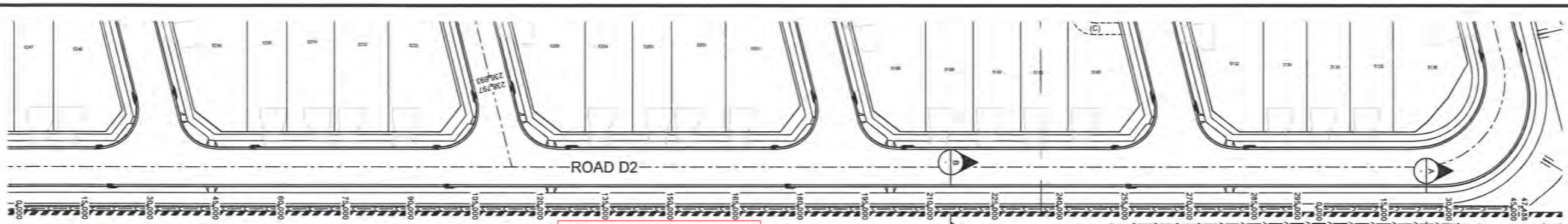
ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5 RETAINING WALL SHEET 1

PLAN No: 998511/CC470 **C**
 FILE No: 998511CC470
 SHEET SIZE: A1 ORIGINAL

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These plans are referred to in certificate no. **15879** approved by
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BFB 3015
 Categories: B1, C1, C2, C3, C4, C6 & C15
 Land Development Certificates
 www.LDC.com.au

Engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates
 Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

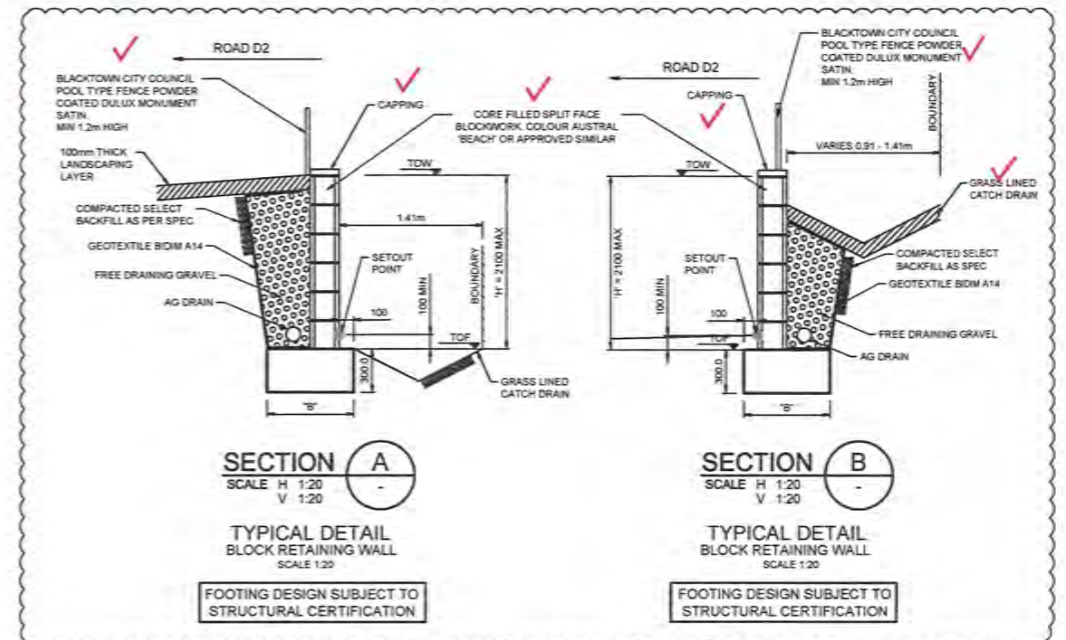
PLAN
SCALE 1:500

LONGITUDINAL SECTION RETAINING WALL 2
 HORIZONTAL SCALE 1:200
 VERTICAL SCALE 1:100

CHAINAGE	TOE OF WALL GROUND LEVELS	TOP OF WALL GROUND LEVELS
280.000	23.58	23.36
281.200	23.72	24.08
285.000	23.89	24.00
290.000	23.80	24.00
299.000	23.85	24.00

LONGITUDINAL SECTION RETAINING WALL 3
 HORIZONTAL SCALE 1:200
 VERTICAL SCALE 1:100

CHAINAGE	TOE OF WALL GROUND LEVELS	TOP OF WALL GROUND LEVELS
0.000	23.84	23.87
4.200	23.91	24.18
5.000	23.80	23.98
7.200	23.77	23.98
10.000	23.70	23.98
12.300	23.64	23.98
15.000	23.70	23.98
19.000	23.76	23.98
20.000	23.91	24.02
25.000	23.84	23.98
26.700	23.38	23.98
30.000	23.20	23.98
33.300	23.20	23.98
35.000	23.26	23.98
35.400	23.26	23.98
38.700	23.27	23.98
39.900	23.27	23.98
40.000	23.24	23.98
41.100	23.24	23.98
43.200	23.23	23.98
45.000	23.23	23.98
46.000	23.23	23.98
46.800	23.23	23.98
47.400	23.23	23.98
47.488	23.23	23.98



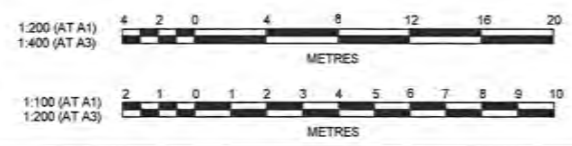
RETAINING WALL 3 (FACE OF WALL)

CHAINAGE	EASTING	NORTHING	BEARING
0	296264.46	6268377.1	98°07'22.85"
47.49	296311.47	6268370.39	98°07'22.85"

LONGITUDINAL SECTION RETAINING WALL 2
 HORIZONTAL SCALE 1:200
 VERTICAL SCALE 1:100

CHAINAGE	TOE OF WALL GROUND LEVELS	TOP OF WALL GROUND LEVELS
140.000	22.70	23.97
141.200	22.75	24.16
145.000	22.80	23.97
150.000	22.84	23.97
155.000	22.87	23.97
160.000	22.83	23.97
162.800	22.84	23.97
165.000	22.89	23.98
169.400	22.84	23.98
170.000	22.86	23.98
175.000	23.04	23.98
180.000	22.86	23.98
185.000	22.82	23.98
190.000	22.80	23.98
195.000	22.70	23.98
197.300	22.80	23.98
200.000	22.80	23.98
205.000	22.83	23.98
210.000	22.81	23.98
215.000	22.80	23.98
217.700	22.80	23.98
220.000	22.83	23.98
225.000	22.80	23.98
225.200	22.86	24.00
230.000	22.85	24.05
235.000	22.80	24.05
240.000	22.86	24.10
245.000	22.87	24.11
250.000	22.80	24.11
253.100	22.84	24.10
255.000	22.84	24.09
260.000	22.80	24.11
265.000	22.84	24.09
270.000	22.70	24.08
275.000	22.77	24.08
280.000	22.73	24.08

- NOTES:**
- TOW DOES NOT INCLUDE CAPPING
 - TRANSITION TOP OF WALL GROUND LEVELS AND TOE OF WALL GROUND LEVELS ON EITHER END OF WALL



AMENDMENT	DES	DRN	CKD	APR	DATE
C	DG	VS	RO	MS	26/09/19
B	DG	NM/JM	RO	MS	12/09/19
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J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
 PO Box 4366 PENRITH WESTFIELD NSW 2150
 P 02 4720 3300 W www.jwprince.com.au E jw@jwprince.com.au

WINTEN PROPERTY GROUP


ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5 RETAINING WALL SHEET 2

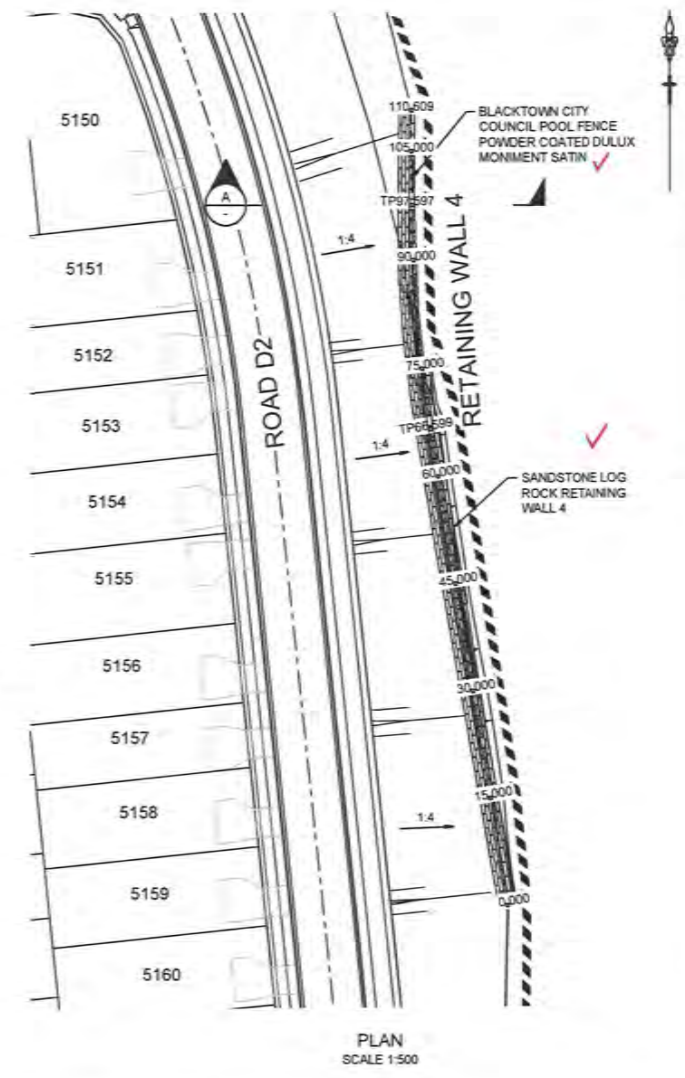
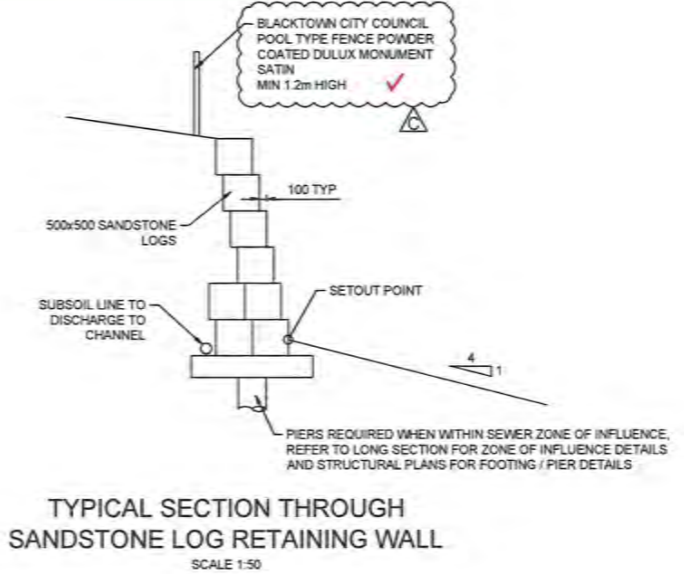
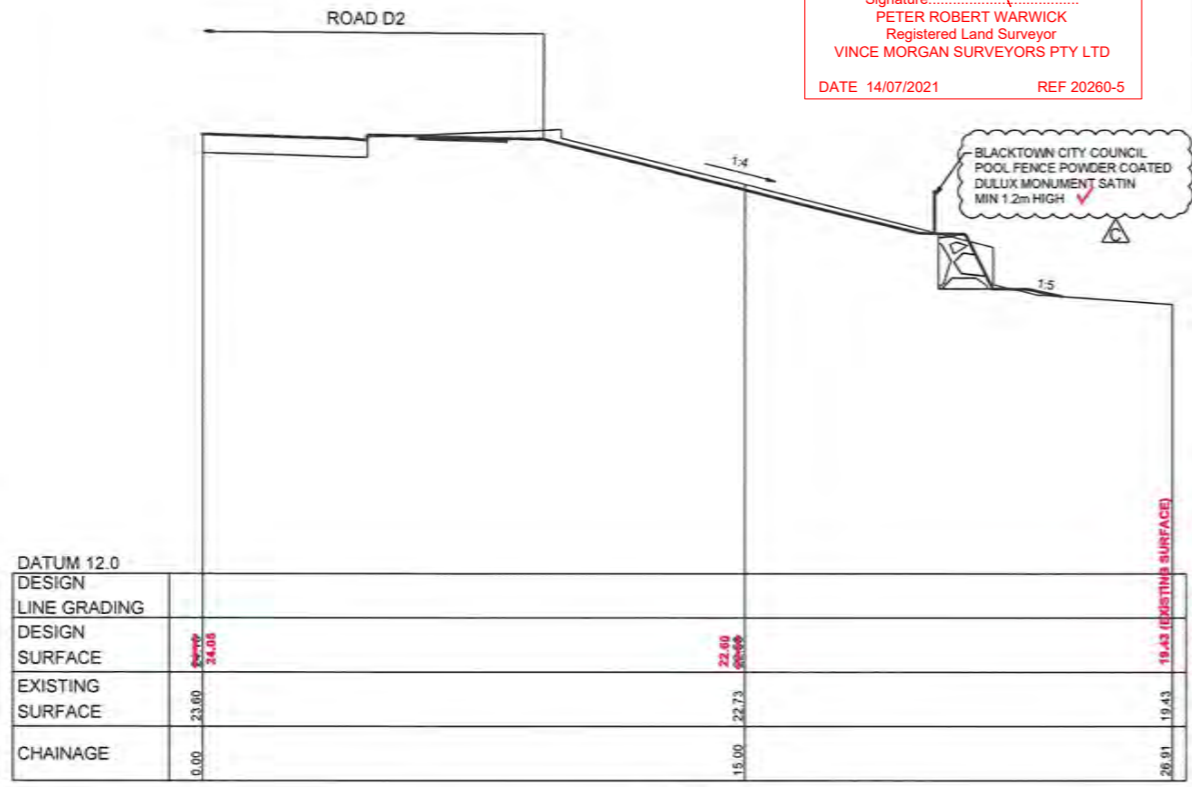
PLAN No: 98511/CC471 **C**
 FILE No: 98511CC471
 SHEET SIZE: A1 ORIGINAL

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I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

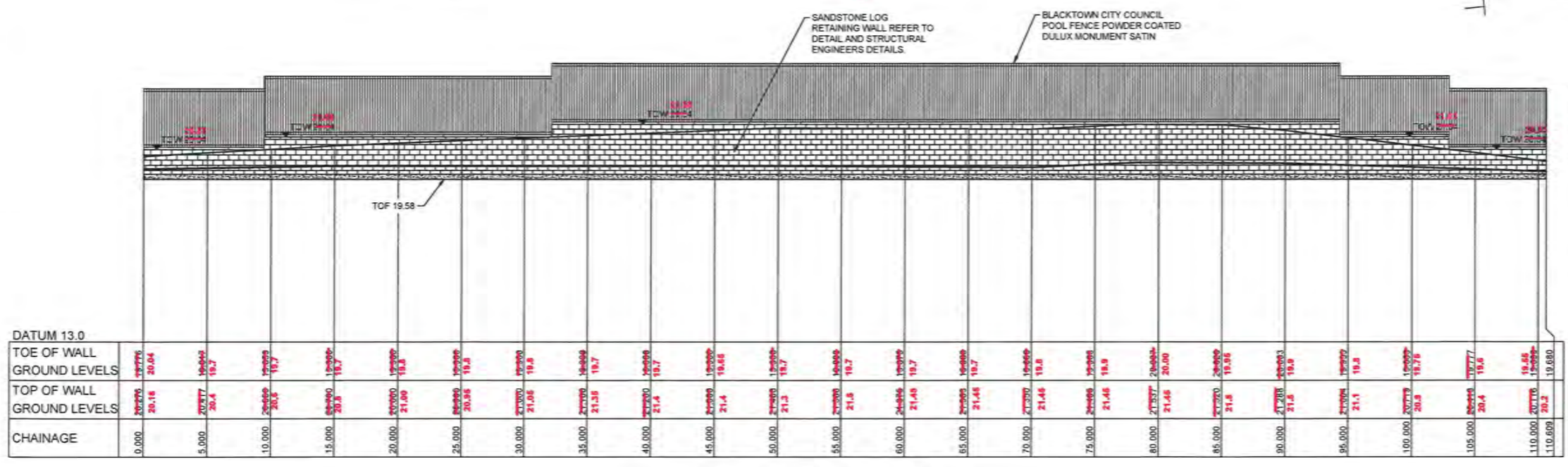
Signature: 
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5

LDC These plans are referred to in certificate no. **15879** approved by
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPB 3015
 Categories: B1, C1, C2, C3, C4, C6 & C15
 Land Development Certificates
 www.LDC.com.au

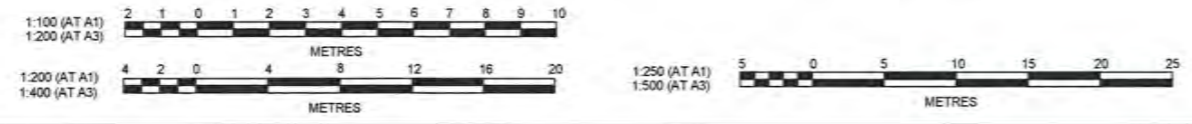


RETAINING WALL 4					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	LENGTH
0	296329.41	6268482.56	350°50'17.10"		
66.6	296318.81	6268548.31	350°50'17.10"	200	31
82.1	296318.33	6268563.84			
97.5	296316.26	6268519.17	359°43'06.18"		
110.61	296316.19	6268562.18	359°43'06.18"		

NOTES:
 1. TRANSITION TOP OF WALL GROUND LEVELS AND TOE OF WALL GROUND LEVELS ON EITHER END OF WALL.



CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	100.000	105.000	110.609
TOE OF WALL GROUND LEVELS	19.777	20.04	19.99	19.7	19.99	19.8	19.9	19.7	19.7	19.45	19.7	19.7	19.7	19.7	19.8	19.9	20.0	19.9	19.8	19.9	19.7	19.6	19.680
TOP OF WALL GROUND LEVELS	20.16	20.4	20.5	20.8	21.0	20.9	21.0	21.3	21.4	21.4	21.5	21.5	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6



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REV	DESCRIPTION	DATE
C	ISSUE FOR CONSTRUCTION APPROVAL	26/09/19
B	ISSUE FOR CAA APPROVAL	12/09/19
A	ISSUE FOR CONSTRUCTION APPROVAL	02/09/19
	AMENDMENT	

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

CLIENT: **WINTEN PROPERTY GROUP**

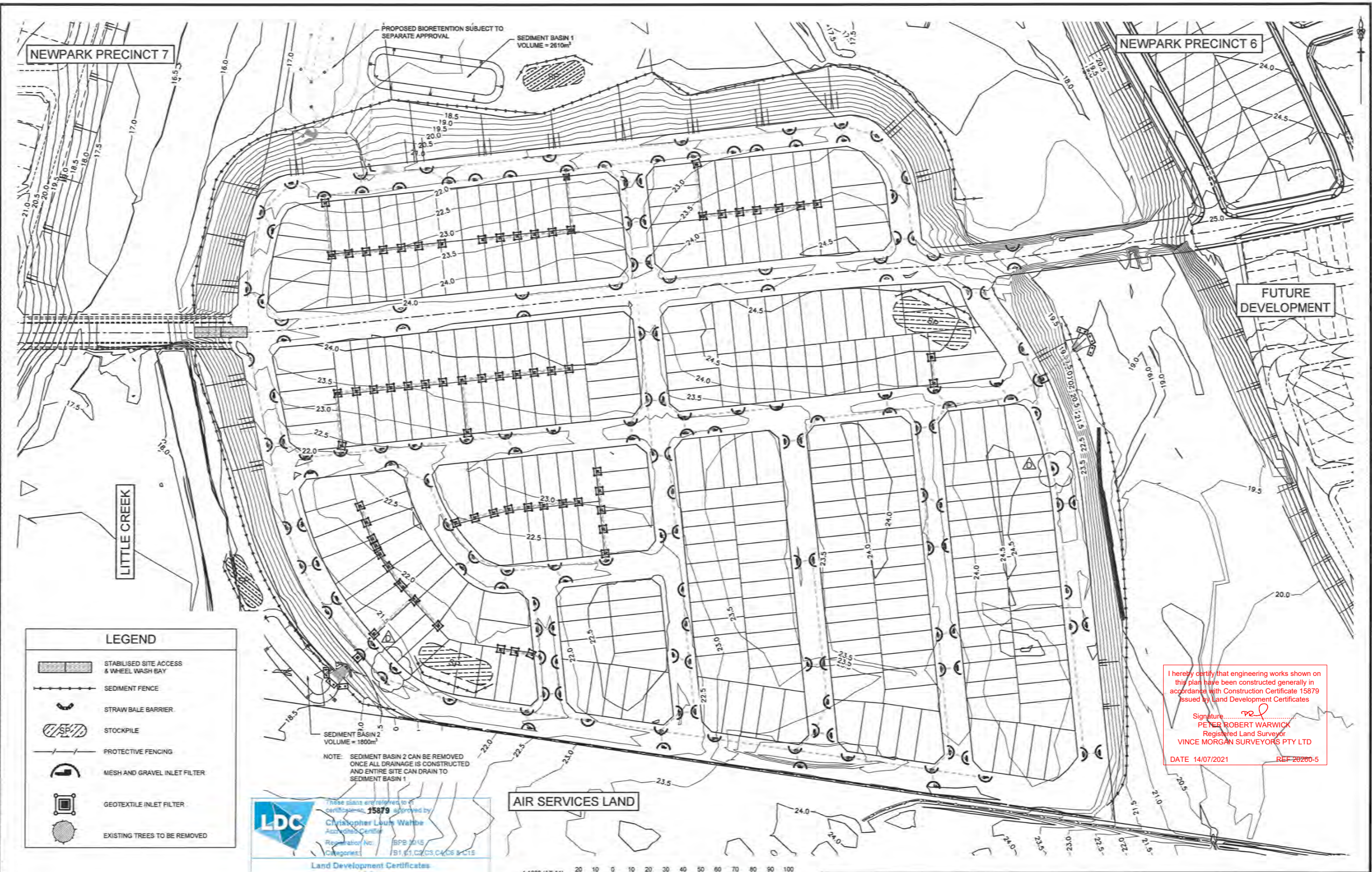
AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5 RETAINING WALL SHEET 3

PLAN No: 998511/CC472 **C**
 FILE No: 998511CC472
 SHEET SIZE: A1 ORIGINAL

Plotted 23 April 2020 3:52:20 PM File Name: J:\998511\CC473 - Construction Certificate Approval Plans\PK11 CENTRAL PRECINCTS\PRECINCT 5 DOCUMENTATION\998511CC473.dwg



LEGEND	
	STABILISED SITE ACCESS & WHEEL WASH BAY
	SEDIMENT FENCE
	STRAW BALE BARRIER
	STOCKPILE
	PROTECTIVE FENCING
	MESH AND GRAVEL INLET FILTER
	GEOTEXTILE INLET FILTER
	EXISTING TREES TO BE REMOVED

These plans are referred to in certificate no. **15879** approved by
Christopher Louis Wahbe
 Accredited Certifier
 Registration No: BPE 2015
 Categories: B1, B1.C2, C3, C4, C5 & C15
Land Development Certificates
www.LDC.com.au



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates
 Signature:
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20200-5

AMENDMENT	DES	DRN	CKD	APR	DATE
D	DG	DG	MP	MS	23/04/20
C	DG	VS	RO	MS	26/09/19
B	DG	NM/JM	RO	MS	12/09/19
A	DG	JM	RO	MS	02/09/19

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 P 02 4720 3300 M www.jwprince.com.au E prep@jwprince.com.au

CLIENT:
WINTEN PROPERTY GROUP
 AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 SOIL AND WATER MANAGEMENT PLAN

PLAN No: 998511/CC473 D
 FILE No: 998511CC473
 SHEET SIZE: A1 ORIGINAL

SOIL AND WATER MANAGEMENT NOTES

GENERAL NOTES:

- 1. ALL EROSION AND SEDIMENT CONTROL MEASURES... 2. TOPSOIL FROM ALL AREAS TO BE DISTURBED... 3. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED...

Table with 3 columns: LAND USE, LIMITATION, COMMENTS. Rows include CONSTRUCTION AREAS, ACCESS AREAS, and REMAINING LANDS.

- NOTE: WORKS WITHIN WATERWAYS AND CREEKS SHALL BE RESTRICTED... 14. WORKS ARE TO BE UNDERTAKEN IN THE FOLLOWING SEQUENCE... 15. CLEARLY VISIBLE BARRIER FENCING SHALL BE INSTALLED...

- 17. PROTECTION FROM EROSION FORCES SHALL BE UNDERTAKEN... 18. TEMPORARY GROUND COVER SHOULD BE MINIMUM 70%... 19. WHERE POSSIBLE THE CONSTRUCTION PROGRAM IS TO SCHEDULE WORKS...

STOCKPILE NOTES:

- 1. SPOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES... 2. IF STOCKPILES ARE TO BE IN PLACE FOR LONGER THAN 14 DAYS...

SEDIMENTATION CONTROL DEVICES:

- 1. ALL STRAW BALES SHALL BE BOUND WITH WIRE... 2. SILT FENCES SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC... 3. PROVIDE STRIP OF TURF...

SITE INSPECTION AND MAINTENANCE:

- 1. A SELF-AUDITING PROGRAM SHALL BE ESTABLISHED BASED ON AN INSPECTION TEST PLAN... a. AT LEAST WEEKLY b. IMMEDIATELY BEFORE SITE CLOSURE... 2. IN ADDITION A SUITABLY QUALIFIED PERSON SHALL BE RESPONSIBLE FOR OVERSEEING...

1. Site Data Sheet. Site Name: NEWPARK PRECINCT 5. Site Location: MARSDEN PARK. Description of Site: SEDIMENT BASIN TO SUPPORT THE PRECINCT 5 SUBDIVISION CONSTRUCTION. Includes tables for Site area, Soil analysis, Rainfall data, RUSLE Factors, and Calculations.

Total Basin Volume. Table with columns: Slope, C, K, S, and values.

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates... Signature: PETER ROBERT WARWICK... DATE: 14/07/2021 REF: 20260-5

LDC logo and registration information for Christopher Louis Wahlbe, Accredited Certifier, Registration No: BPE 3016.

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Revision table with columns: C, B, A (ISSUE FOR CONSTRUCTION APPROVAL) and columns: DG, VS, RO, MS, DES, DRN, CKD, APR, DATE.

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CLIENT: WINTEN PROPERTY GROUP. ISSUE FOR CONSTRUCTION APPROVAL. NEWPARK PRECINCT 5 SOIL AND WATER MANAGEMENT NOTES. PLAN No: 998511/CC474. SHEET SIZE: A1 ORIGINAL.

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
TBB	Give way line on Path		Reflectorised white
S5	Bicycle lane separation line for off-road bike path (straight sections)		Reflectorised white
S4	Bicycle lane separation line for off-road bike path (continuous)		Reflectorised white
(C)	Shared Path		Reflectorised white
TB	Give way line (Used with Signs)		Reflectorised white
TB1	Give way line (Used on right side of side)		Reflectorised white
C3	Kerbside Linemarking for No Stopping Restrictions		Reflectorised yellow
SP	Street Name Sign		To Blacktown Council Specification

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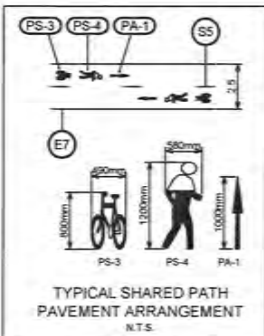
Signature:
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 14/07/2021 REF 20260-5

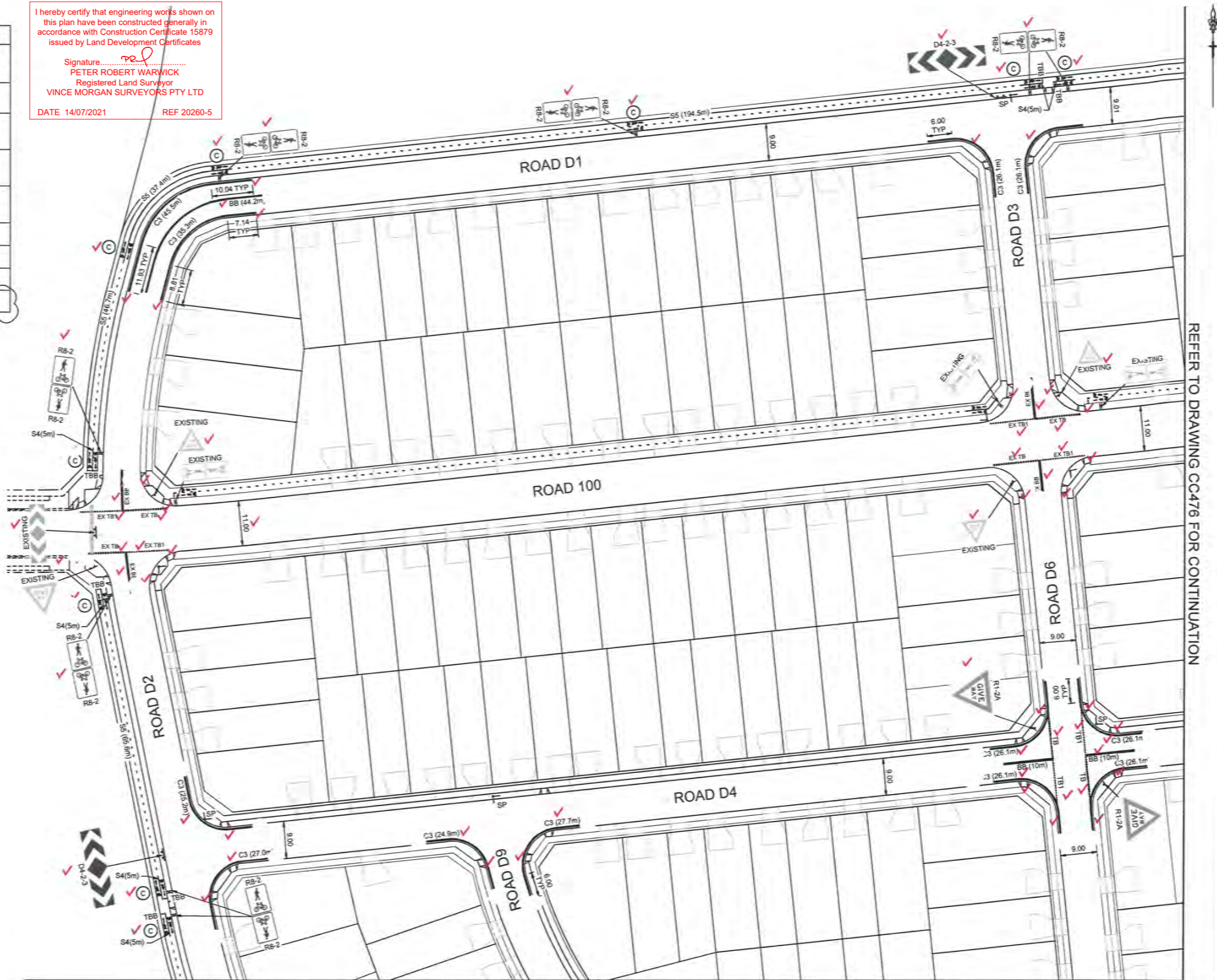
NOTES

- ALL PAVEMENT MARKINGS, CHEVRONS AND REFLECTORS ARE TO BE IN ACCORDANCE WITH R.T.A. STANDARD DRAWINGS MD.R60 AND AUSTRALIAN STANDARDS.
- ALL SIGNS TO BE IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARD AS 1743 - ROAD SIGNS AND COUNCIL'S SPECIFICATION UNLESS OTHERWISE SHOWN. ROAD SIGNS ARE SIZE 'A', UNLESS OTHERWISE SHOWN. LOCATE OUTSIDE OF CLEAR ZONES.
- ALL NEW PAVEMENT MARKINGS ARE TO BE INSTALLED IN WHITE, REFLECTIVE THERMOPLASTIC PAINT.
- KERBSIDE LANE WIDTHS INCLUDE THE WIDTH OF THE GUTTER.
- RE-MARK EXISTING PAVEMENT MARKINGS AS DIRECTED BY THE PROJECT MANAGER.
- 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.
- ALL MEASUREMENTS ARE IN METERS UNLESS OTHERWISE SHOWN.

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



STREET NAME SIGNS ADDED
 C3 ON ABLE ROAD REMOVE
 BB ON BEND ADDED



REFER TO DRAWING CC476 FOR CONTINUATION

REFER TO DRAWING CC478 FOR CONTINUATION



CLIENT:

WINTAN PROPERTY GROUP

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

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

ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK
 PRECINCT 5
 SIGNAGE & LINEMARKING PLAN
 SHEET 1


PLAN No: 998511/CC475
 FILE No: 998511CC475
 SHEET SIZE: A1 ORIGINAL

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AMENDMENT	DES	DRN	CKD	APR	DATE
C	DG	VS	RO	MS	26/09/19
B	DG	NM/JM	RO	MS	12/09/19
A	DG	JM	RO	MS	02/09/19

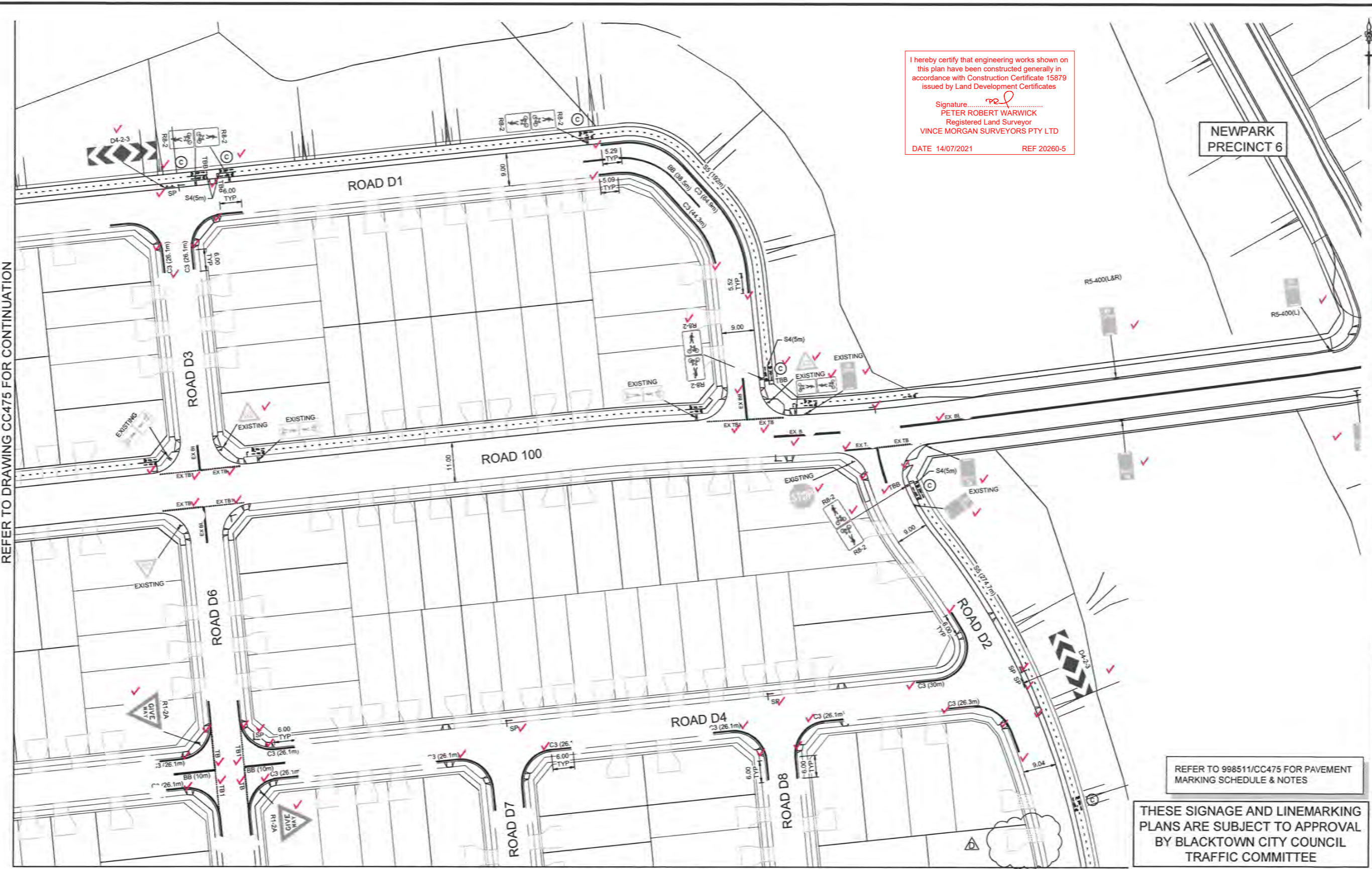
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 15879 issued by Land Development Certificates

Signature: 
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 14/07/2021 REF 20260-5

REFER TO DRAWING CC475 FOR CONTINUATION

NEWPARK PRECINCT 6



REFER TO 998511/CC475 FOR PAVEMENT MARKING SCHEDULE & NOTES

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

REFER TO DRAWING CC477 FOR CONTINUATION



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CLIENT:  WINTAN PROPERTY GROUP

AZIMUTH: AHD
 DATUM: MGA
 ORIGIN:

ISSUE FOR CONSTRUCTION APPROVAL

NEWPARK PRECINCT 5
 SIGNAGE & LINEMARKING PLAN
 SHEET 2

PLAN No: 998511/CC476 **D**
 FILE No: 998511CC476
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
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REFER TO DRAWING CC476 FOR CONTINUATION

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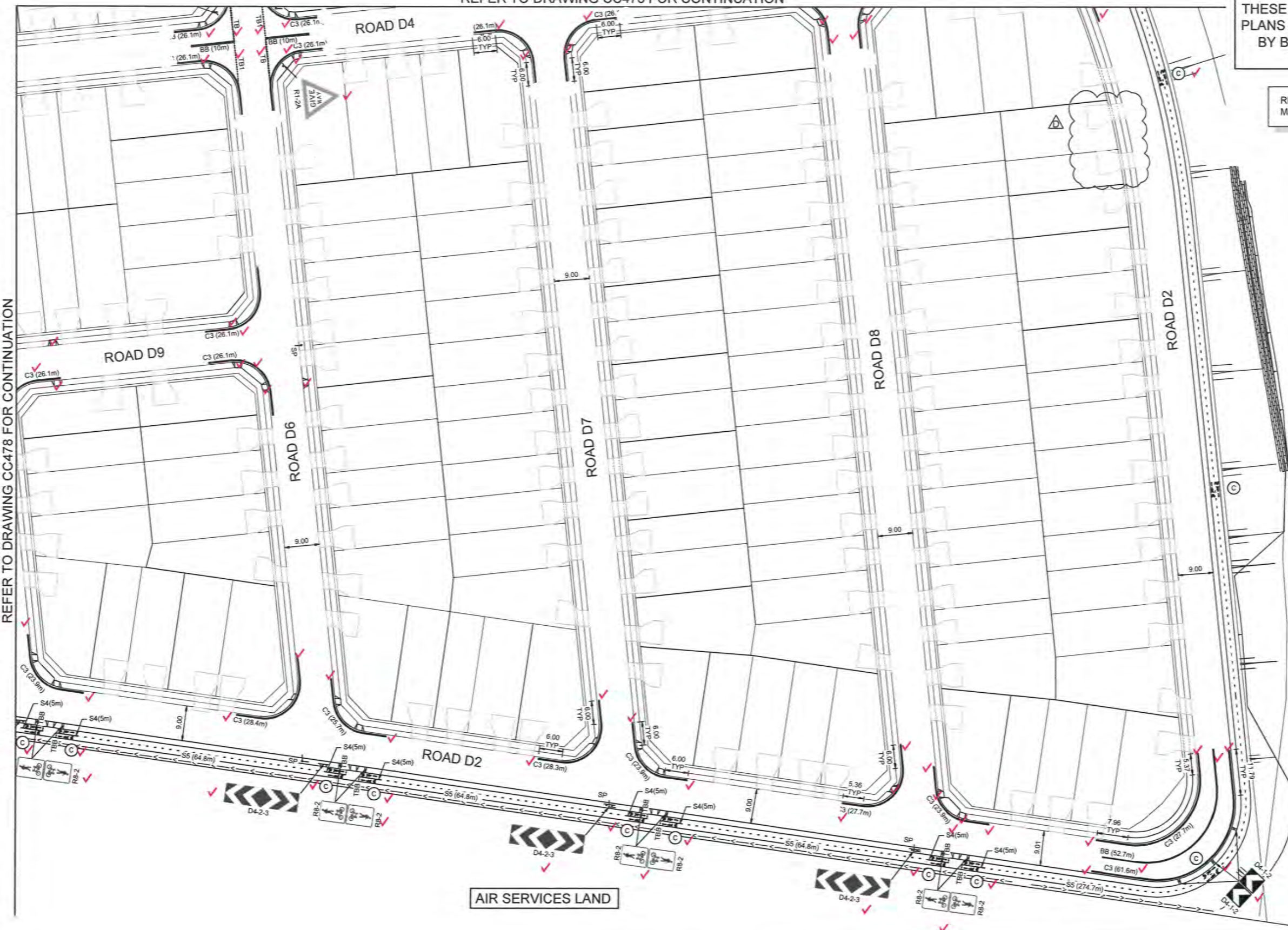
REFER TO 998511/CC475 FOR PAVEMENT MARKING SCHEDULE & NOTES

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DATE 14/07/2021 REF 20260-5

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AIR SERVICES LAND



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A	DG	JM	RO	MS	02/09/19
AMENDMENT					

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CLIENT:
 WINTEN PROPERTY GROUP
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 DATUM: MGA
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ISSUE FOR CONSTRUCTION APPROVAL


NEWPARK PRECINCT 5
 SIGNAGE & LINEMARKING PLAN
 SHEET 3

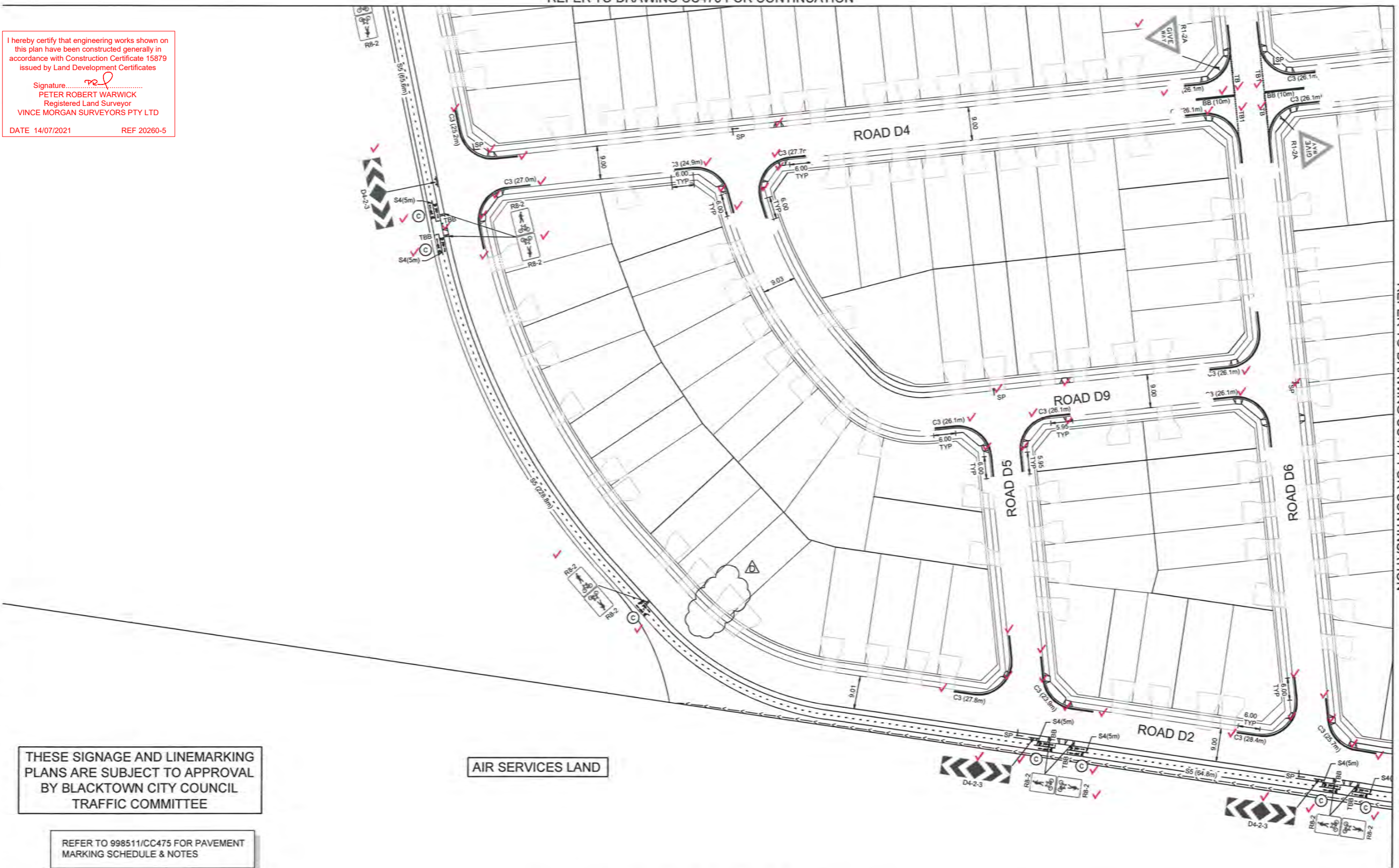
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 FILE No: 998511CC477
 SHEET SIZE: A1 ORIGINAL

REFER TO DRAWING CC475 FOR CONTINUATION

REFER TO DRAWING CC477 FOR CONTINUATION

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 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/07/2021 REF 20260-5



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REFER TO 998511/CC475 FOR PAVEMENT MARKING SCHEDULE & NOTES



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C	ISSUE FOR CONSTRUCTION APPROVAL	DG	VS	RO	MS	26/09/19
B	ISSUE FOR CAA APPROVAL	DG	NMUM	RO	MS	12/09/19
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NEWPARK PRECINCT 5
 SIGNAGE & LINEMARKING PLAN
 SHEET 4

PLAN No: 998511/CC478 **D**
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