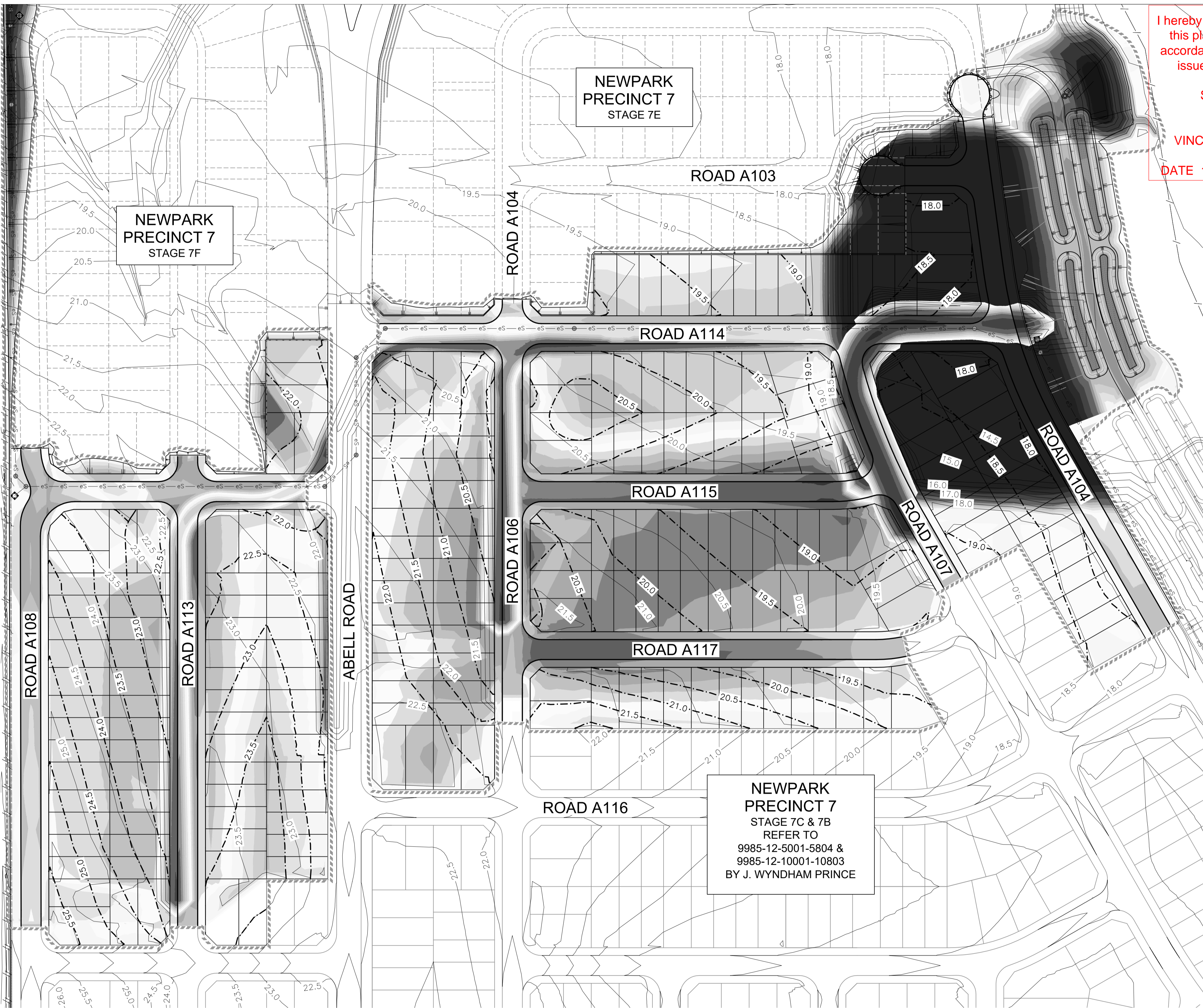


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I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16632 issued by Land Development Certificates

Signature.....*PR*.....
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD

DATE 14/11/2022 REF 20260-7

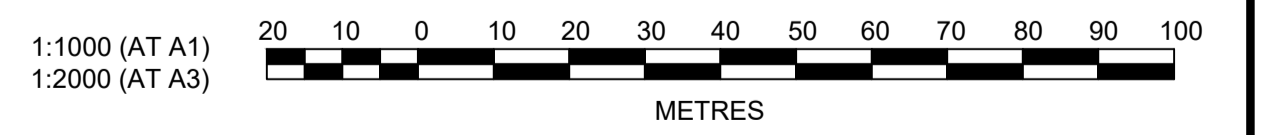
LEGEND		
Lower_value	Upper_value	Colour
-8.0	to -3	m
-3	to -2.5	m
-2.5	to -1.5	m
-1.5	to -1	m
-1	to -0.8	m
-0.8	to -0.6	m
-0.6	to -0.4	m
-0.4	to -0.2	m
-0.2	to 0	m
0.0	to 0.2	m
0.2	to 0.4	m
0.4	to 0.6	m
0.6	to 0.8	m
0.8	to 1	m
1	to 1.5	m
1.5	to 2	m
2	to 2.5	m
2.5	to 8	m

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

EXISTING AND DESIGN CONTOUR ADDED

NEWPARK PRECINCT 7
 STAGE 7C & 7B
 REFER TO
 9985-12-5001-5804 &
 9985-12-10001-10803
 BY J. WYNDHAM PRINCE

LDC These plans are referred to in certificate no. 16632 approved by:
Christopher Louis Wahbe
 Registered Certifier
 Registration No: BDC 3015
 Categories: Certifier - Subdivision
Land Development Certificates
 www.LDC.com.au



AMENDMENT	DES	DRN	CKD	APR	DATE	
B	EXISTING AND DESIGN SURFACES SHOWN	DG/KE	NDW	JC	PM	06/09/21
A	ISSUE FOR CONSTRUCTION APPROVAL	DG/KE	NDW/NF	JC	MS	11/08/21

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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

CLIENT:
WINTEN PROPERTY GROUP

STATUS:
ISSUE FOR CONSTRUCTION APPROVAL

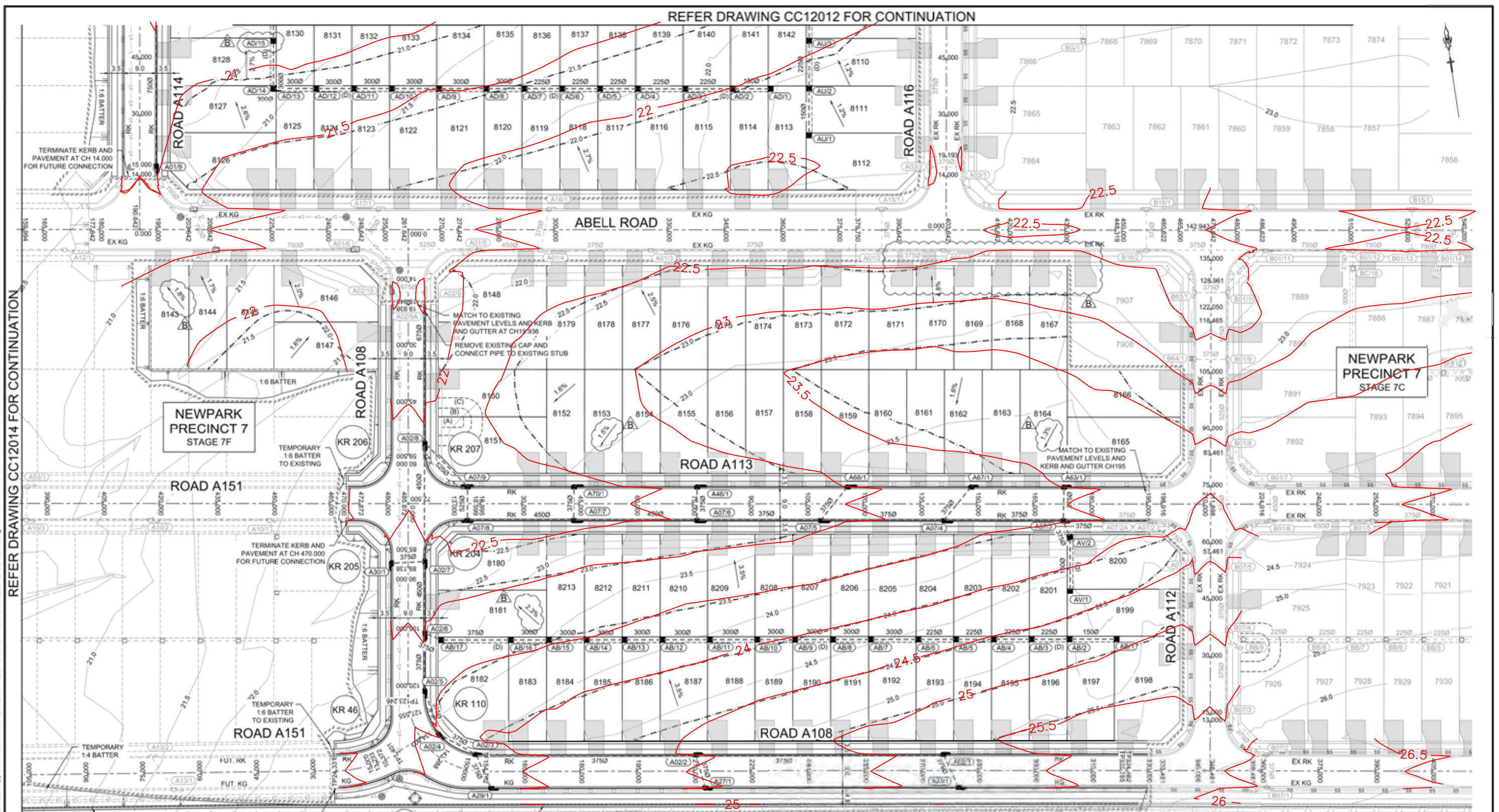
THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

NEWPARK PRECINCT 7, STAGE 7D
 CUT & FILL PLAN

PROJECT No: **9985-12**
 SHEET No: **CC12010**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC12010**


B



REFER DRAWING CC12014 FOR CONTINUATION

REFER DRAWING CC12012 FOR CONTINUATION

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16632 issued by Land Development Certificates

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

DATE 14/11/2022 REF 20260-7

- 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



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

UTILITIES SHOWN ARE DIAGRAMMATIC ONLY. CONTRACTORS ARE RESPONSIBLE TO LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES & STANDARDS. NOTE: UTILITIES SHOWN MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS



AMENDMENT	DES	DRN	CKD	APR	DATE	
B	ADDITIONAL GRADE ADDED & DRIVEWAYS SHOWN	DGIKE	NDW	JC	PM	06/09/21
A	ISSUE FOR CONSTRUCTION APPROVAL	DGIKE	NDW/NP	JC	MS	11/08/21

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

CLIENT:  **WINTREN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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NEWPARK PRECINCT 7, STAGE 7D
 ENGINEERING PLAN
 SHEET 1

PLAN No: 9985-12-CC12011

PROJECT No:	9985-12
SHEET No:	CC12011
PLAN No:	9985-12-CC12011

REFER DRAWING CC12013 FOR CONTINUATION

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16632 issued by Land Development Certificates

Signature: *P.R.*
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD

DATE 14/11/2022 REF 20260-7

NEWPARK
PRECINCT 7
STAGE 7C

REFER DRAWING CC12011 FOR CONTINUATION

- 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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LDC Land Development Certificates
www.ldc.nsw.gov.au

Design prepared & issued by:
Certificate No. 16632 (withholding)
Christopher Louis Walsh
Registered Designer
Engineer No. 117109
Company No. 117109



PlotNo: 6 September, 2021 4:40:09 PM File Name: J:\9985\DC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS12 - Precinct 7\985-12-CC12012.dwg

B	ADDITIONAL GRADES ADDED & LINE REMOVED	DG/KE	NDW	JC	PM	06/09/21
A	ISSUE FOR CONSTRUCTION APPROVAL	DG/KE	NDW/JP	JC	MS	11/08/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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

CLIENT: **WINTEN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

**NEWPARK
PRECINCT 7, STAGE 7D
ENGINEERING PLAN
SHEET 3**

PROJECT No: **9985-12**
SHEET No: **CC12012**

PLAN No: **9985-12-CC12012**

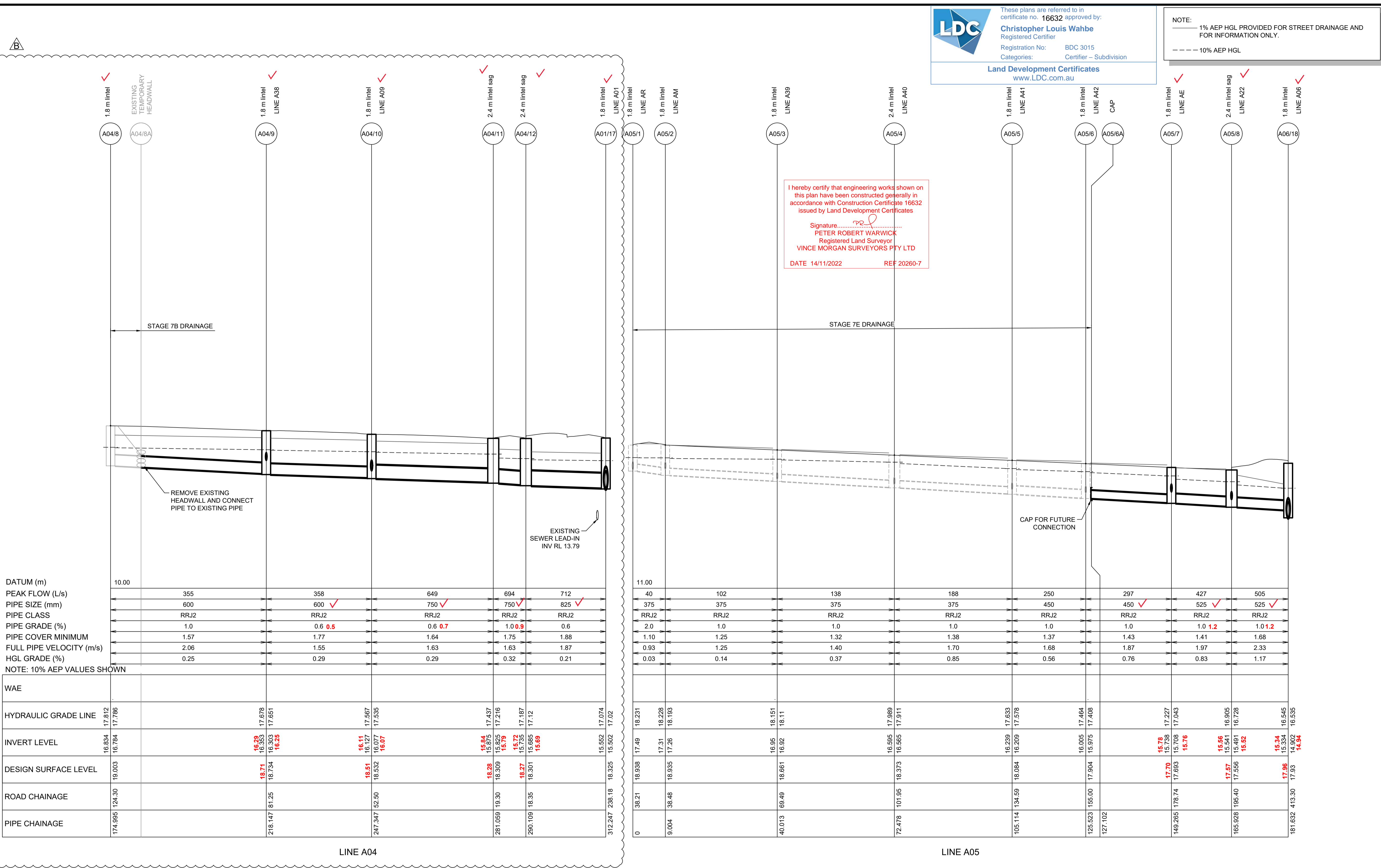
B



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Christopher Louis Wahbe
 Registered Certifier
 Registration No: BDC 3015
 Categories: Certifier - Subdivision
Land Development Certificates
 www.LDC.com.au

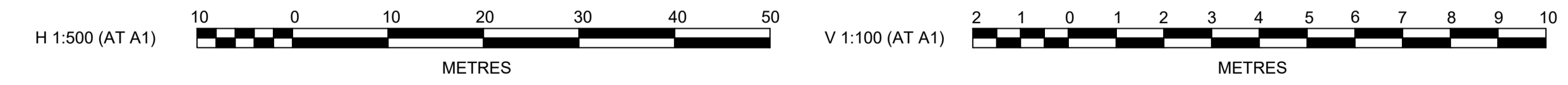
NOTE:
 — 1% AEP HGL PROVIDED FOR STREET DRAINAGE AND FOR INFORMATION ONLY.
 - - - 10% AEP HGL

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16632 issued by Land Development Certificates
 Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/11/2022 REF 20260-7



DATUM (m)	10.00					11.00							
PEAK FLOW (L/s)	355	358	649	694	712	40	102	138	188	250	297	427	505
PIPE SIZE (mm)	600	600 ✓	750 ✓	750 ✓	825 ✓	375	375	375	375	450	450 ✓	525 ✓	525 ✓
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2
PIPE GRADE (%)	1.0	0.6 0.5	0.6 0.7	1.0 0.9	0.6	2.0	1.0	1.0	1.0	1.0	1.0	1.0 1.2	1.0 1.2
PIPE COVER MINIMUM	1.57	1.77	1.64	1.75	1.88	1.10	1.25	1.32	1.38	1.37	1.43	1.41	1.68
FULL PIPE VELOCITY (m/s)	2.06	1.55	1.63	1.63	1.87	0.93	1.25	1.40	1.70	1.68	1.87	1.97	2.33
HGL GRADE (%)	0.25	0.29	0.29	0.32	0.21	0.03	0.14	0.37	0.85	0.56	0.76	0.83	1.17

WAE	LINE A04					LINE A05																		
HYDRAULIC GRADE LINE	17.812	17.678	17.437	17.216	17.074	18.231	18.228	18.193	18.151	18.111	17.989	17.911	17.833	17.578	17.464	17.408	17.227	17.043	16.905	16.728	16.545	16.535		
INVERT LEVEL	16.834	16.784	16.353	16.303	16.252	16.854	16.875	15.825	15.779	15.735	16.95	16.92	16.861	16.861	16.805	15.975	15.738	15.708	15.641	15.601	15.534	15.534	15.534	
DESIGN SURFACE LEVEL	19.003	18.734	18.511	18.532	18.325	18.28	18.309	18.309	18.27	18.301	18.661	18.373	18.373	18.084	17.904	17.70	17.693	17.693	17.57	17.566	17.96	17.93	17.93	
ROAD CHAINAGE	124.30	81.25	52.50	19.30	18.35	38.21	38.48	69.49	101.95	134.59	155.00	176.74	195.40	213.30	238.18	265.18	298.18	331.18	364.18	397.18	430.18	463.18	496.18	
PIPE CHAINAGE	174.995	218.147	247.347	281.059	290.109	312.247	312.247	312.247	312.247	312.247	312.247	312.247	312.247	312.247	312.247	312.247	312.247	312.247	312.247	312.247	312.247	312.247	312.247	312.247



Plotfile: 6 September, 2021 4:57:15 PM File Name: J:\9895DCCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\12 - Precinct 7\9895-12-CC12425.dwg

REV	DESCRIPTION	DATE	BY	CHKD	APPD
B	DRAINAGE LONG SECTIONS UPDATED	06/09/21	DG/KE	DG	JC
A	ISSUE FOR CONSTRUCTION APPROVAL	11/08/21	DG/KE	NDW	JC
	AMENDMENT		DES	DRN	CKD
			APR		

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

CLIENT:
WINTAN PROPERTY GROUP

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

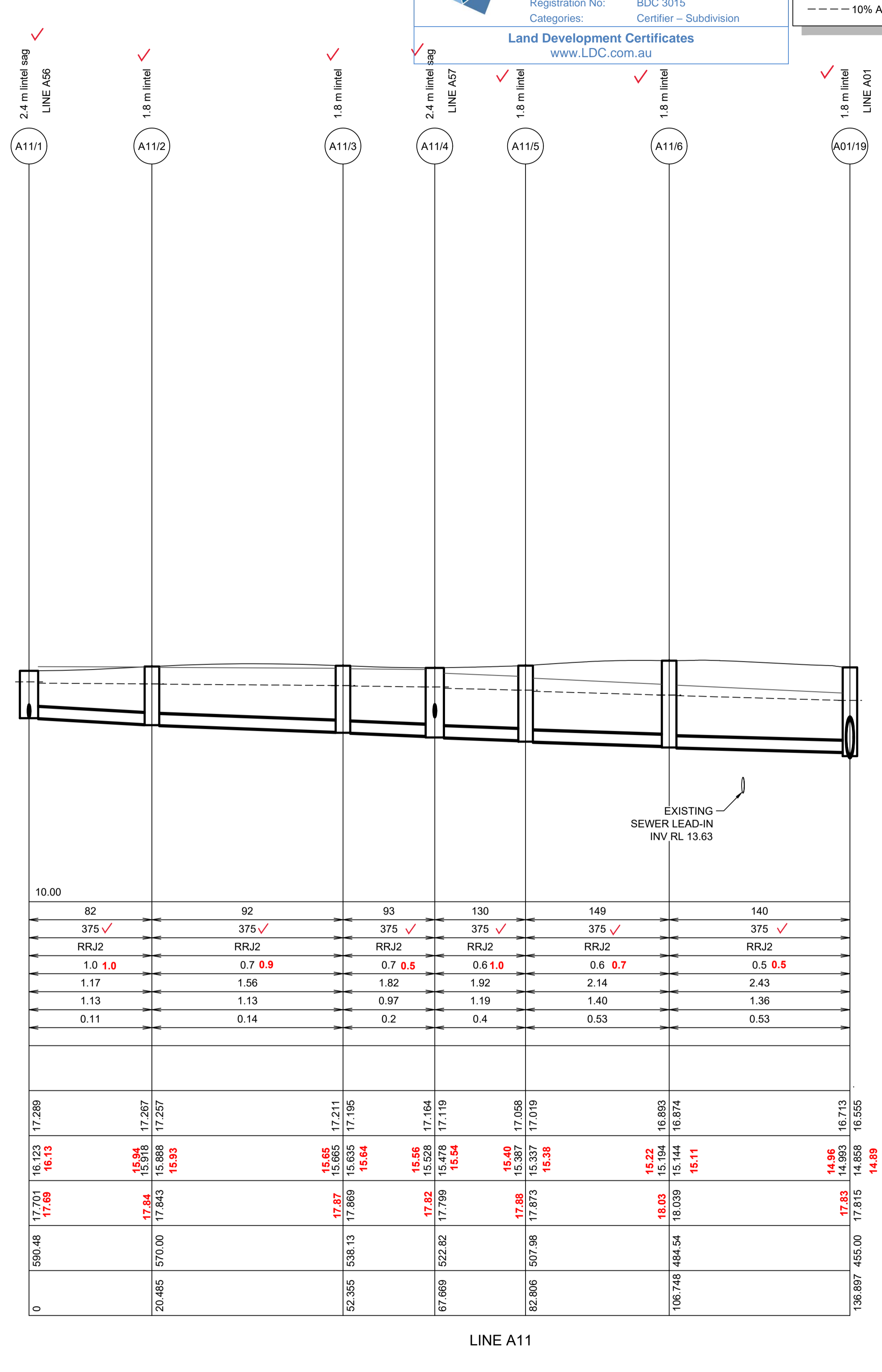
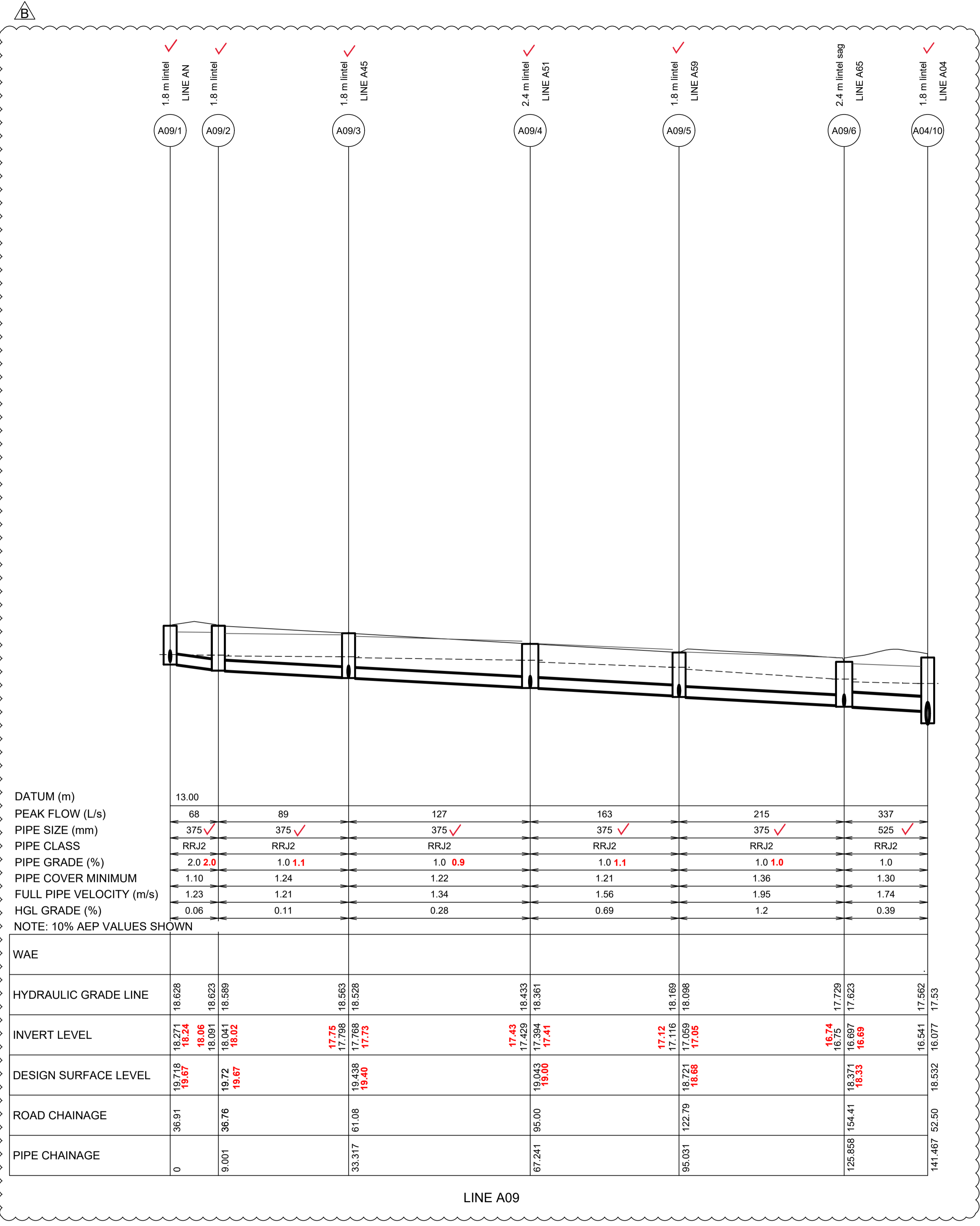
NEWPARK PRECINCT 7, STAGE 7D
 LONGITUDINAL DRAINAGE SHEET 5
 AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9895-12-CC12425

PROJECT No: **9895-12**
 SHEET No: **CC12425**
 B

Plotfile: 6 September, 2021 4:57:35 PM File Name: J:\9985DCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\12 - Precinct 7\9985-12-CC12427.dwg

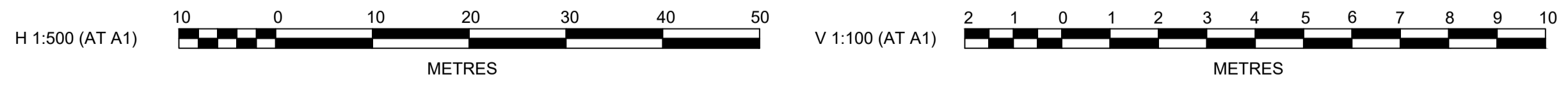
These plans are referred to in certificate no. **16632** approved by:
Christopher Louis Wahbe
Registered Certifier
Registration No: BDC 3015
Categories: Certifier - Subdivision
Land Development Certificates
www.LDC.com.au

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



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16632 issued by Land Development Certificates

Signature: *Peter Robert Warwick*
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 14/11/2022 REF 20260-7



B	DRAINAGE LONG SECTIONS UPDATED	DG/KE	DG	JC	PM	06/09/21
A	ISSUE FOR CONSTRUCTION APPROVAL	DG/KE	NDW	JC	MS	11/08/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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

CLIENT:

WINTREN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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NEWPARK PRECINCT 7, STAGE 7D
LONGITUDINAL DRAINAGE SHEET 7

PROJECT No: **9985-12**
SHEET No: **CC12427**

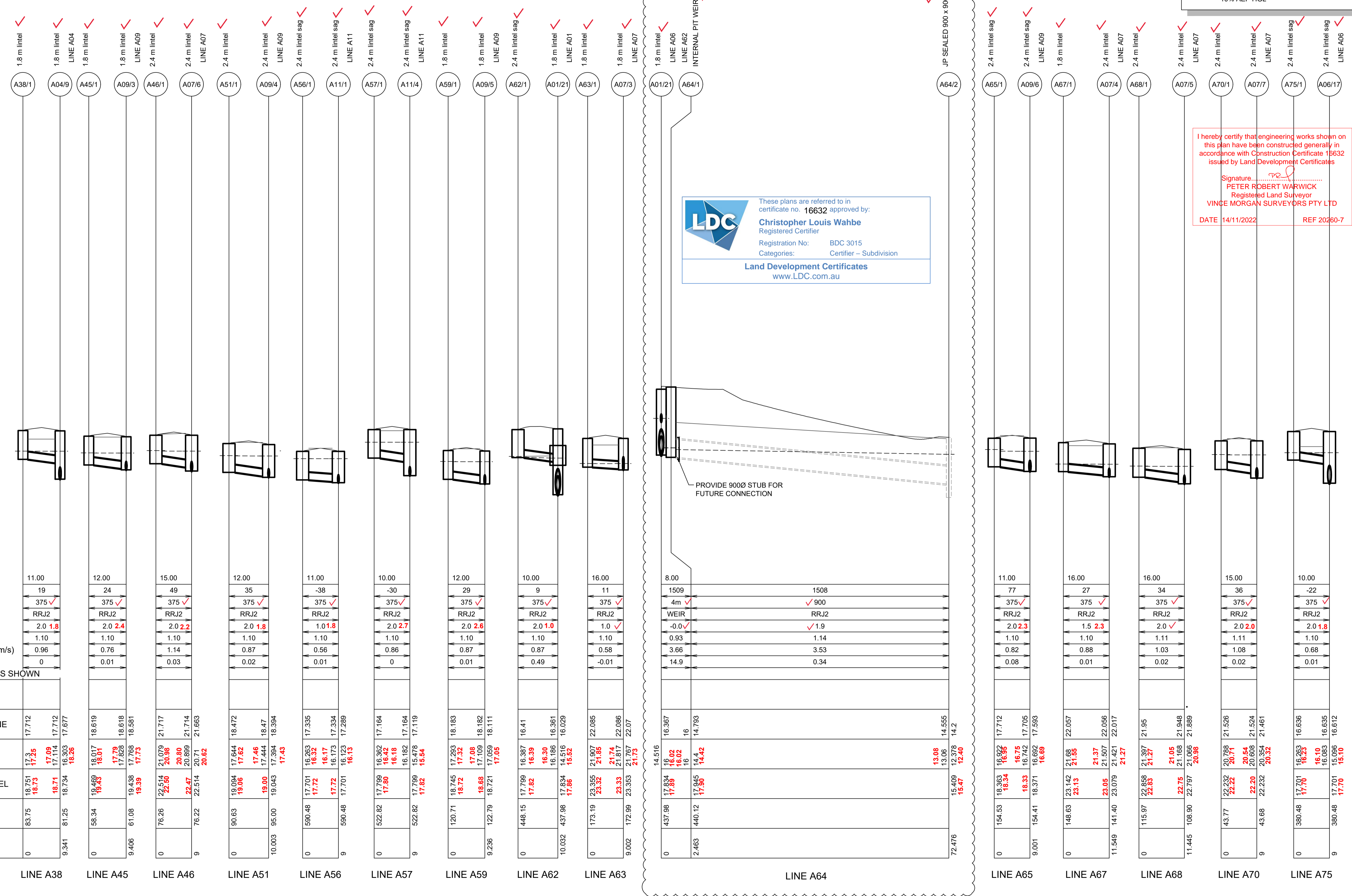
AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC12427**

PROJECT No: **9985-12**
SHEET No: **CC12427**

PLAN No: **9985-12-CC12427**

Plotfile: 6 September, 2021 4:57:52 PM File Name: J:\9985DCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\12 - Precinct 7\9985-12-CC12429.dwg

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



DATUM (m)	11.00
PEAK FLOW (L/s)	19
PIPE SIZE (mm)	375 ✓
PIPE CLASS	RRJ2
PIPE GRADE (%)	2.0 1.8
PIPE COVER MINIMUM	1.10
FULL PIPE VELOCITY (m/s)	0.96
HGL GRADE (%)	0

NOTE: 10% AEP VALUES SHOWN

WAE	
HYDRAULIC GRADE LINE	17.712
INVERT LEVEL	17.3
DESIGN SURFACE LEVEL	18.751
ROAD CHAINAGE	83.75
PIPE CHAINAGE	0

DATUM (m)	12.00
PEAK FLOW (L/s)	24
PIPE SIZE (mm)	375 ✓
PIPE CLASS	RRJ2
PIPE GRADE (%)	2.0 2.4
PIPE COVER MINIMUM	1.10
FULL PIPE VELOCITY (m/s)	0.76
HGL GRADE (%)	0.01

DATUM (m)	15.00
PEAK FLOW (L/s)	49
PIPE SIZE (mm)	375 ✓
PIPE CLASS	RRJ2
PIPE GRADE (%)	2.0 2.2
PIPE COVER MINIMUM	1.10
FULL PIPE VELOCITY (m/s)	1.14
HGL GRADE (%)	0.03

DATUM (m)	12.00
PEAK FLOW (L/s)	35
PIPE SIZE (mm)	375 ✓
PIPE CLASS	RRJ2
PIPE GRADE (%)	2.0 1.8
PIPE COVER MINIMUM	1.10
FULL PIPE VELOCITY (m/s)	0.87
HGL GRADE (%)	0.02

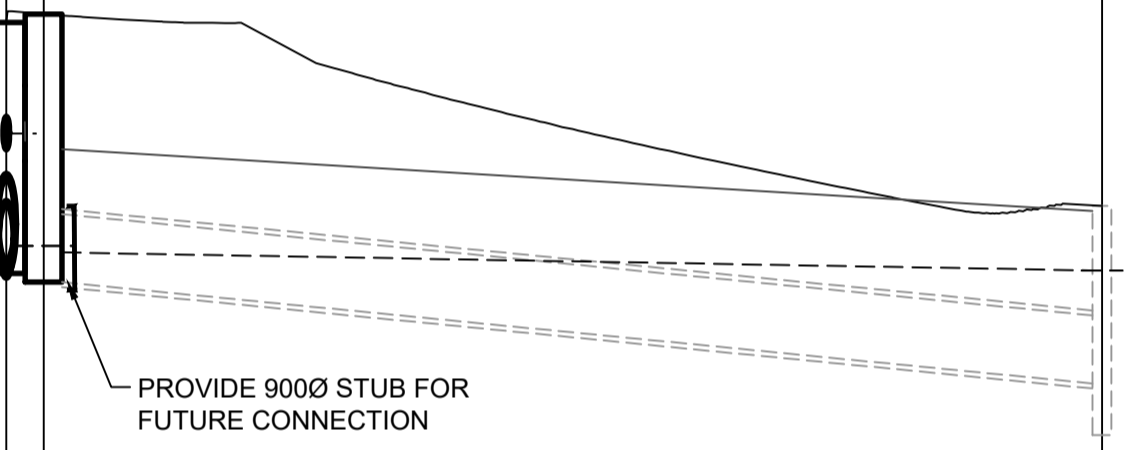
DATUM (m)	11.00
PEAK FLOW (L/s)	-38
PIPE SIZE (mm)	375 ✓
PIPE CLASS	RRJ2
PIPE GRADE (%)	1.0 1.8
PIPE COVER MINIMUM	1.10
FULL PIPE VELOCITY (m/s)	0.56
HGL GRADE (%)	0.01

DATUM (m)	10.00
PEAK FLOW (L/s)	-30
PIPE SIZE (mm)	375 ✓
PIPE CLASS	RRJ2
PIPE GRADE (%)	2.0 2.7
PIPE COVER MINIMUM	1.10
FULL PIPE VELOCITY (m/s)	0.86
HGL GRADE (%)	0

DATUM (m)	12.00
PEAK FLOW (L/s)	29
PIPE SIZE (mm)	375 ✓
PIPE CLASS	RRJ2
PIPE GRADE (%)	2.0 2.6
PIPE COVER MINIMUM	1.10
FULL PIPE VELOCITY (m/s)	0.87
HGL GRADE (%)	0.01

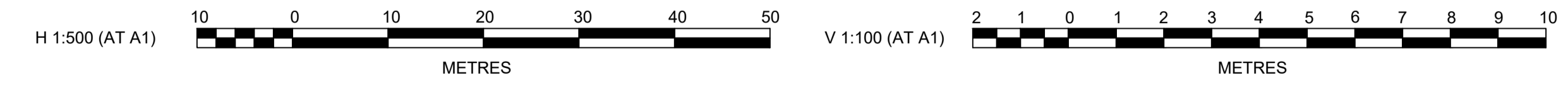
DATUM (m)	10.00
PEAK FLOW (L/s)	9
PIPE SIZE (mm)	375 ✓
PIPE CLASS	RRJ2
PIPE GRADE (%)	2.0 1.0
PIPE COVER MINIMUM	1.10
FULL PIPE VELOCITY (m/s)	0.87
HGL GRADE (%)	0.49

DATUM (m)	16.00
PEAK FLOW (L/s)	11
PIPE SIZE (mm)	375 ✓
PIPE CLASS	RRJ2
PIPE GRADE (%)	1.0 ✓
PIPE COVER MINIMUM	1.10
FULL PIPE VELOCITY (m/s)	1.0
HGL GRADE (%)	-0.01



These plans are referred to in certificate no. 16632 approved by:
Christopher Louis Wahbe
 Registered Certifier
 Registration No: BDC 3015
 Categories: Certifier - Subdivision
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 15632 issued by Land Development Certificates
 Signature: PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/11/2022 REF 20260-7



B	DRAINAGE LONG SECTION A64 ADDED	DG/KE	DG	JC	PM	06/09/21
A	ISSUE FOR CONSTRUCTION APPROVAL	DG/KE	NDW	JC	MS	11/08/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

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

CLIENT:
WINTEN PROPERTY GROUP

STATUS:
ISSUE FOR CONSTRUCTION APPROVAL
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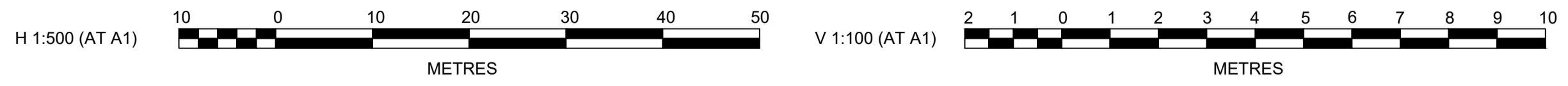
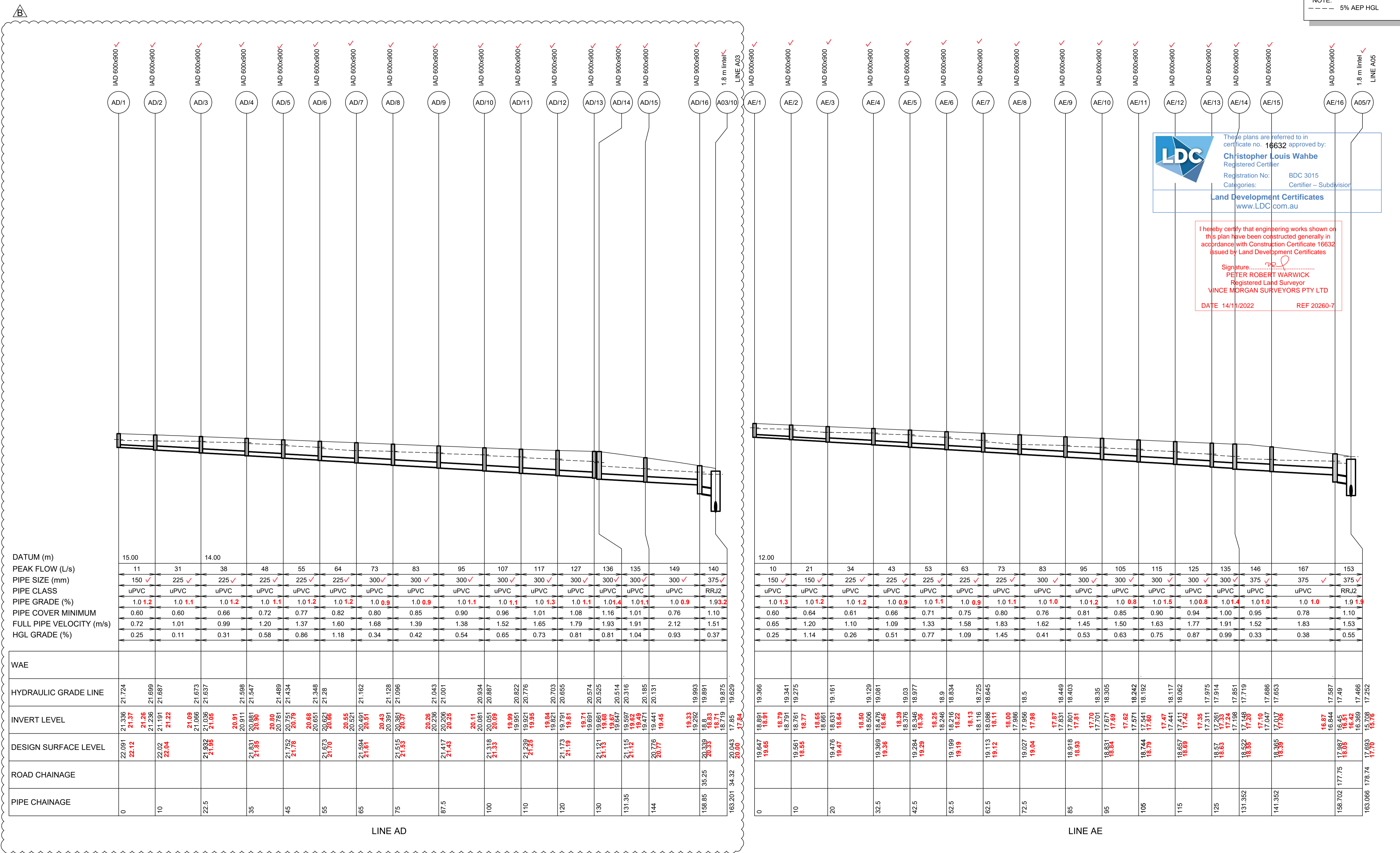
NEWPARK PRECINCT 7, STAGE 7D
 LONGITUDINAL DRAINAGE SHEET 9
 AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN NO: 9985-12-CC12429

PROJECT No:
9985-12
 SHEET No:
CC12429
 B

NOTE:
--- 5% AEP HGL

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Registered Certifier
Registration No: BDC 3015
Categories: Certifier - Subdivision
Land Development Certificates
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PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 14/11/2022 REF 20260-7



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AMENDMENT	DES	DRN	CKD	APR	DATE	
B	DRAINAGE LONG SECTIONS UPDATED	DG/KE	DG	JC	PM	06/09/21
A	ISSUE FOR CONSTRUCTION APPROVAL	DG/KE	NDW	JC	MS	11/08/21

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

CLIENT:
 WINTAN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
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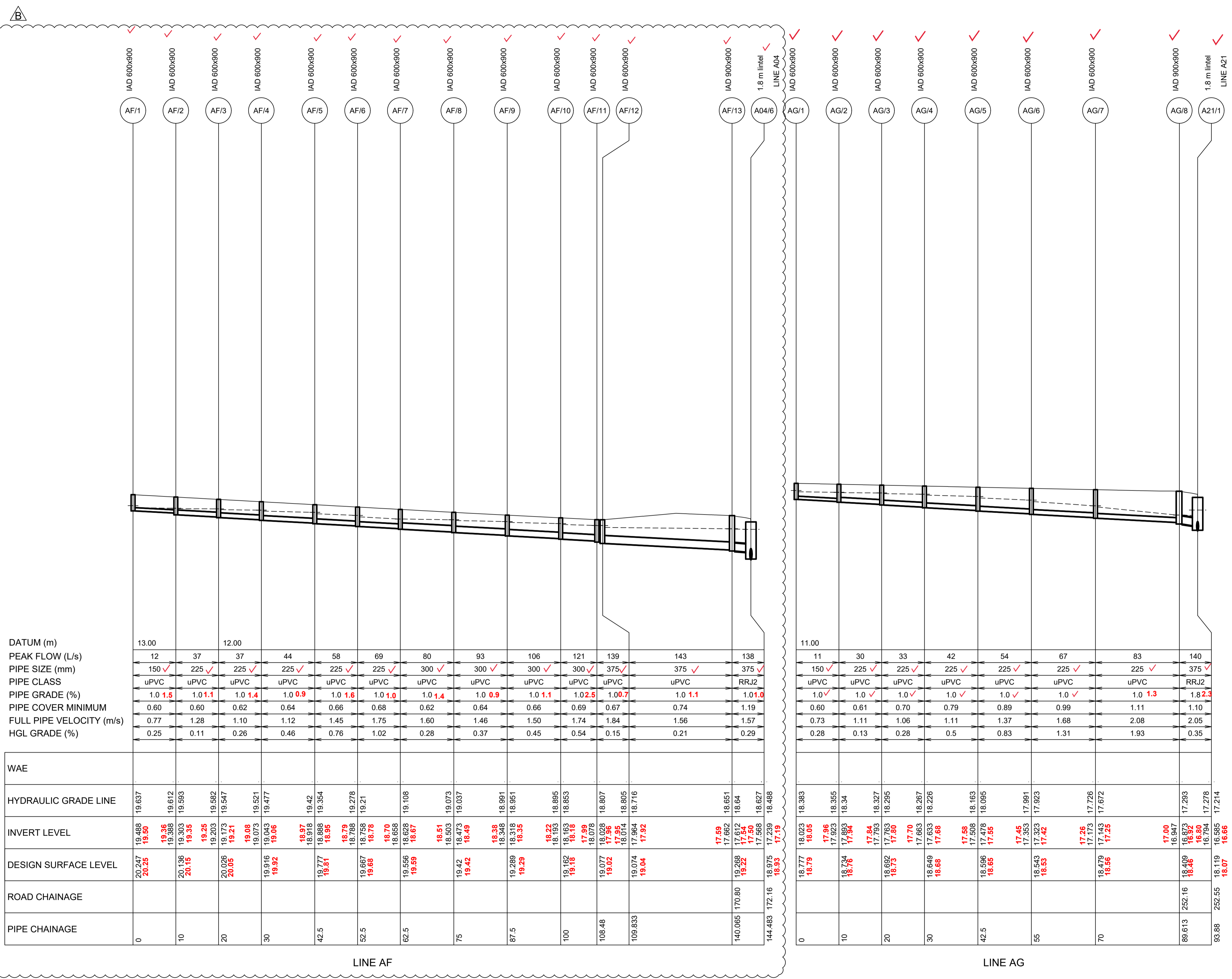
NEWPARK PRECINCT 7, STAGE 7D
LONGITUDINAL DRAINAGE SHEET 11
AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9895-12-CC12431

PROJECT No: **9895-12**
SHEET No: **CC12431**
B

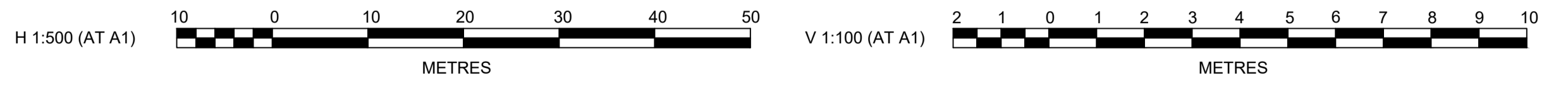
NOTE:
--- 5% AEP HGL

LDC
 These plans are referred to in certificate no. 16632 approved by:
Christopher Louis Wahbe
 Registered Certifier
 Registration No: BDC 3015
 Categories: Certifier - Subdivision
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 16632 issued by Land Development Certificates
 Signature:
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 14/11/2022 REF 20260-7



Plotfile: 6 September, 2021 4:58:31 PM File Name: J:\9985DCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\12 - Precinct 7\9985-12-CC12432.dwg



B	DRAINAGE LONG SECTIONS UPDATED	DG/KE	DG	JC	PM	06/09/21
A	ISSUE FOR CONSTRUCTION APPROVAL	DG/KE	NDW	JC	MS	11/08/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
 PO Box 4366 PENRITH WESTFIELD NSW 2750
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CLIENT:

WINTREN PROPERTY GROUP

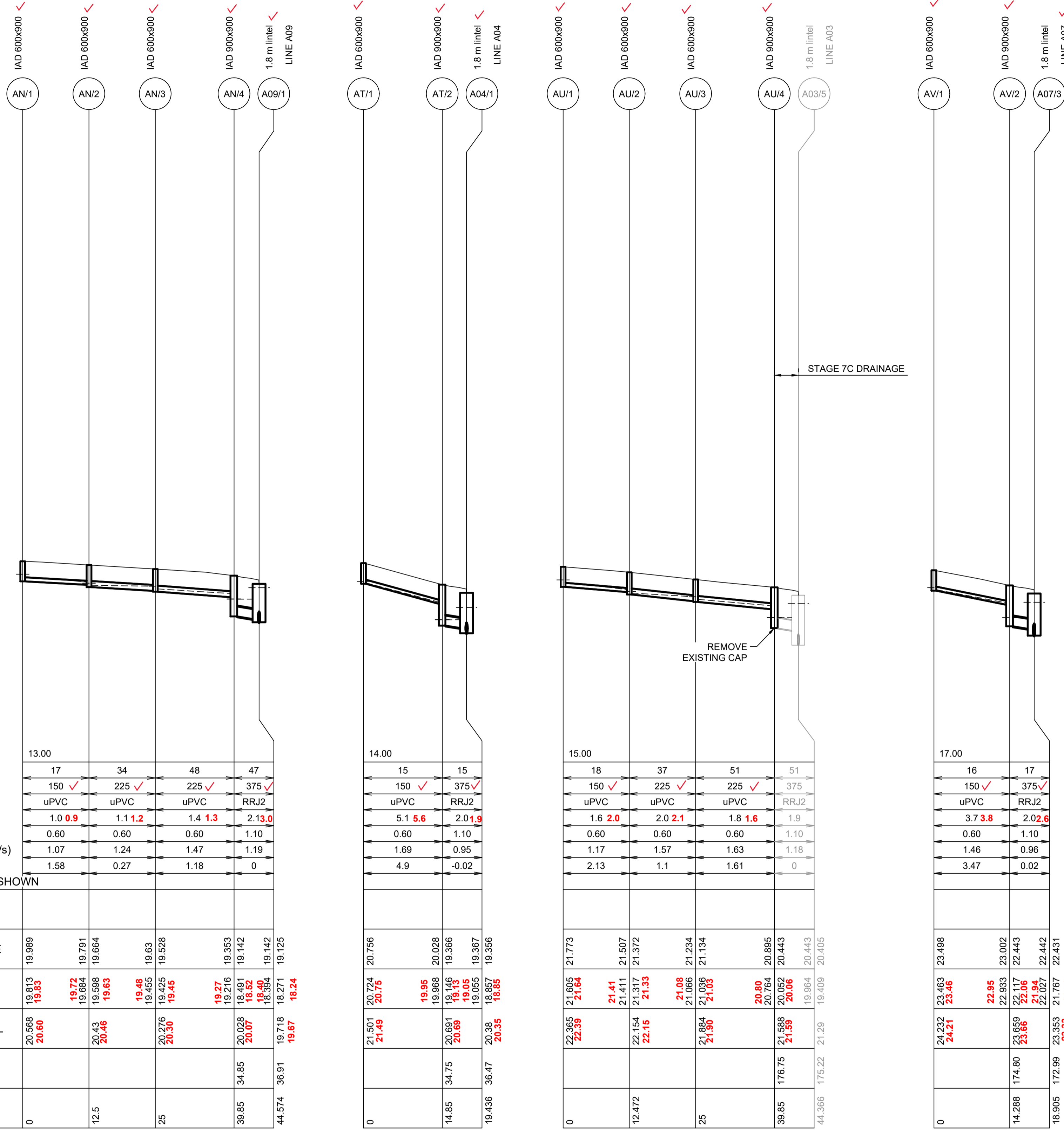
STATUS:
ISSUE FOR CONSTRUCTION APPROVAL
 THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

NEWPARK PRECINCT 7, STAGE 7D
 LONGITUDINAL DRAINAGE SHEET 12

PROJECT No:
9985-12
 SHEET No:
CC12432

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC12432

NOTE:
--- 5% AEP HGL



DATUM (m)	13.00			
PEAK FLOW (L/s)	17	34	48	47
PIPE SIZE (mm)	150 ✓	225 ✓	225 ✓	375 ✓
PIPE CLASS	uPVC	uPVC	uPVC	RRJ2
PIPE GRADE (%)	1.0 0.9	1.1 1.2	1.4 1.3	2.13 0
PIPE COVER MINIMUM	0.60	0.60	0.60	1.10
FULL PIPE VELOCITY (m/s)	1.07	1.24	1.47	1.19
HGL GRADE (%)	1.58	0.27	1.18	0

NOTE: 5% AEP VALUES SHOWN

WAE				
HYDRAULIC GRADE LINE	19.989	19.791	19.63	19.353
INVERT LEVEL	19.813 19.83	19.72 19.684 19.63	19.48 19.455 19.63	19.27 19.216 19.142
DESIGN SURFACE LEVEL	20.568 20.60	20.43 20.46	20.276 20.30	20.028 20.07
ROAD CHAINAGE				
PIPE CHAINAGE	0	12.5	25	39.85

DATUM (m)	14.00			
PEAK FLOW (L/s)	15	15		
PIPE SIZE (mm)	150 ✓	375 ✓		
PIPE CLASS	uPVC	RRJ2		
PIPE GRADE (%)	5.1 5.6	2.0 1.9		
PIPE COVER MINIMUM	0.60	1.10		
FULL PIPE VELOCITY (m/s)	1.69	0.95		
HGL GRADE (%)	4.9	-0.02		

WAE				
HYDRAULIC GRADE LINE	20.756	20.028	19.366	19.356
INVERT LEVEL	20.724 20.75	19.95 19.968	19.146 19.366	19.055 19.367
DESIGN SURFACE LEVEL	21.501 21.49	20.691 20.69	20.38 20.35	19.718 19.67
ROAD CHAINAGE				
PIPE CHAINAGE	0	14.85	34.75	36.47

DATUM (m)	15.00			
PEAK FLOW (L/s)	18	37	51	51
PIPE SIZE (mm)	150 ✓	225 ✓	225 ✓	375 ✓
PIPE CLASS	uPVC	uPVC	uPVC	RRJ2
PIPE GRADE (%)	1.6 2.0	2.0 2.1	1.8 1.6	1.9
PIPE COVER MINIMUM	0.60	0.60	0.60	1.10
FULL PIPE VELOCITY (m/s)	1.17	1.57	1.63	1.18
HGL GRADE (%)	2.13	1.1	1.61	0

WAE				
HYDRAULIC GRADE LINE	21.773	21.234	21.134	20.443
INVERT LEVEL	21.605 21.64	21.41 21.411	21.08 21.066	20.80 20.764
DESIGN SURFACE LEVEL	22.365 22.39	22.154 22.15	21.884 21.90	21.588 21.59
ROAD CHAINAGE				
PIPE CHAINAGE	0	12.472	25	39.85

DATUM (m)	17.00		
PEAK FLOW (L/s)	16	17	
PIPE SIZE (mm)	150 ✓	375 ✓	
PIPE CLASS	uPVC	RRJ2	
PIPE GRADE (%)	3.7 3.8	2.02 6	
PIPE COVER MINIMUM	0.60	1.10	
FULL PIPE VELOCITY (m/s)	1.46	0.96	
HGL GRADE (%)	3.47	0.02	

WAE		
HYDRAULIC GRADE LINE	23.488	22.442
INVERT LEVEL	23.463 23.46	22.95 22.933
DESIGN SURFACE LEVEL	24.232 24.21	23.659 23.66
ROAD CHAINAGE		
PIPE CHAINAGE	0	14.288

LONG SECTION AS REMOVED

LINE AN

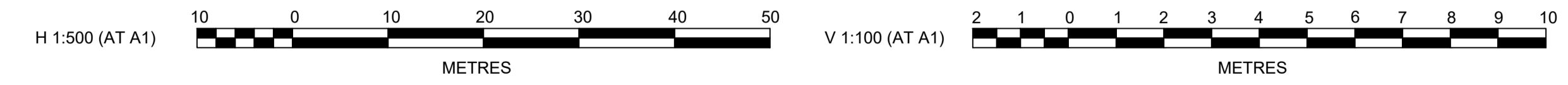
LINE AT

LINE AU

LINE AV

These plans are referred to in certificate no. 16632 approved by:
Christopher Louis Wahbe
Registered Certifier
Registration No: BDC 3015
Categories: Certifier - Subdivision
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 16632 issued by Land Development Certificates
Signature:
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 14/11/2022 REF 20260-7



Plotfile: 6 September, 2021 4:58:53 PM File Name: J:\9898DCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\12 - Precinct 7D\9895-12-CC12433.dwg

B	DRAINAGE LONG SECTION AS REMOVED	DG/KE	DG	JC	PM	06/09/21
A	ISSUE FOR CONSTRUCTION APPROVAL	DG/KE	NDW	JC	MS	11/08/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

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NEWPARK PRECINCT 7, STAGE 7D
LONGITUDINAL DRAINAGE
SHEET 13

PROJECT No: **9985-12**
SHEET No: **CC12433**
PLAN No: **9985-12-CC12433**

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