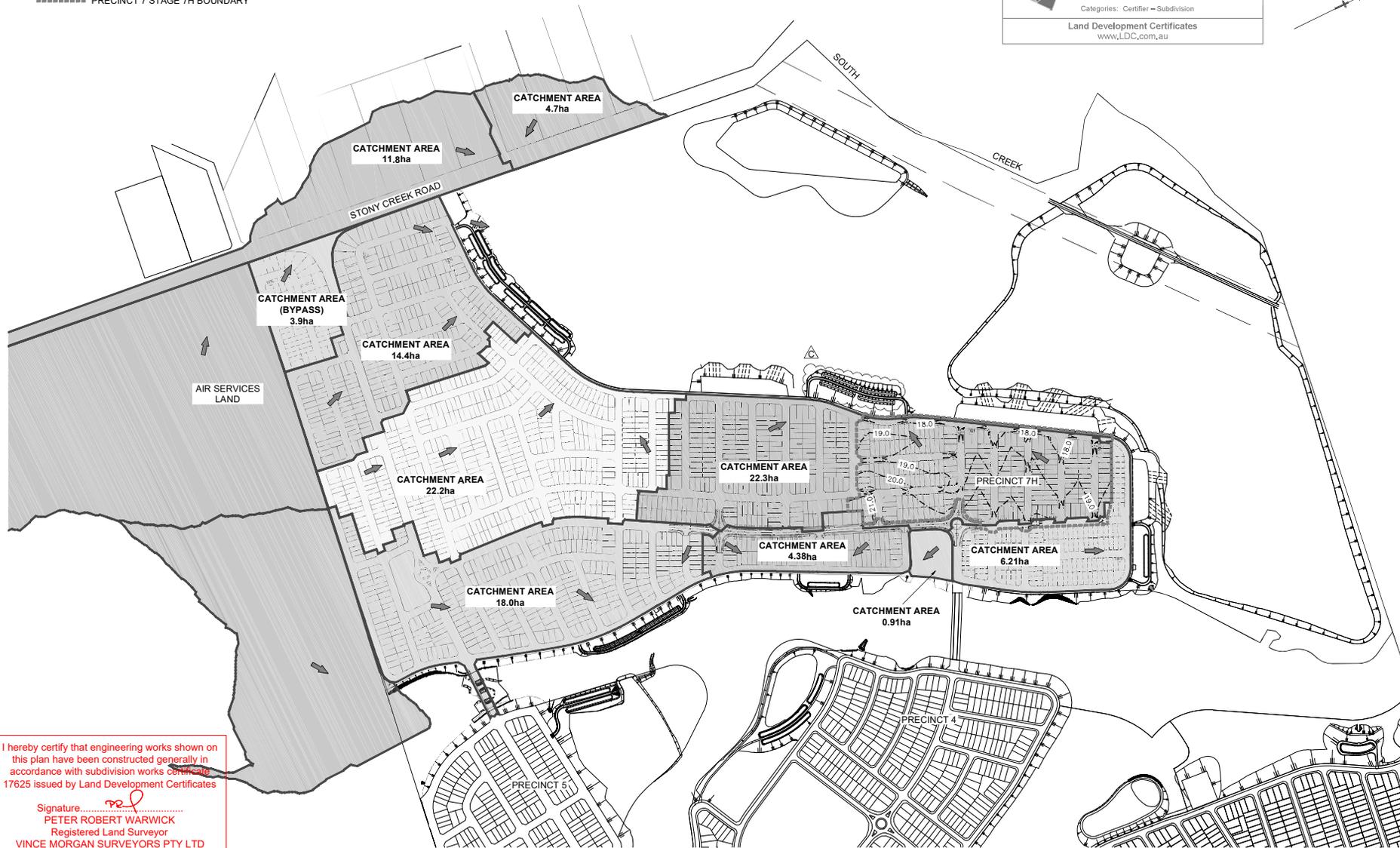


LEGEND

----- PRECINCT 7 STAGE 7H BOUNDARY



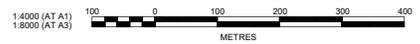
Plans and specifications referenced in certificate no. **17625** issued by: **Christopher Louis Wahbe**
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
Land Development Certificates
 www.LDC.com.au



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works Certificate 17625 issued by Land Development Certificates

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

DATE 27/11/2025 REF 20260-7H



REV	DESCRIPTION	DES	DRN	CKD	APR	DATE
C	BIORETENTION MS2 LAYOUT UPDATED	DG	DG	KE	KE	18/08/22
B	ISSUE FOR SWC APPROVAL	DS	NDW	KE	PM	18/03/22
A	ISSUE FOR CMA APPROVAL	DG	NDW	KE	PM	18/01/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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

CLIENT:  **WINTIN 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 7H OVERALL CATCHMENT PLAN

PROJECT No: **9985-12**
 SHEET No: **CC18401**

PLAN No: **9985-12-CC18401**

PROJECT No: **9985-12**
 SHEET No: **CC18401**

PLAN No: **9985-12-CC18401**

18 August 2022 3:36:30 PM File Name: J:\9985\DOC - Construction Certificate Approval Plans\PK12 - WESTERN PRECINCT 7H - Precinct 7H 6985-12-CC18401.dwg

REFER TO DRAWING CC18403 FOR CONTINUATION

LEGEND

- CATCHMENT BOUNDARY
- EXISTING CATCHMENT BOUNDARY
- FLOW DIRECTION ARROW
- EXISTING CONTOURS -47.0
- DESIGN CONTOURS -47.0
- DRAINAGE LINE & PIT
- EXISTING DRAINAGE LINE & PIT
- FUTURE DRAINAGE LINE & PIT

LDC Plans and specifications referenced in certificate no. **17625** issued by: **Christopher Louis Wahbe**
Registered Certifier Registration No. BDC 3015
Categories: Certifier - Subdivision
Land Development Certificates
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**FUTURE RE1
OPEN SPACE**

LOT 5290
DP 1236023

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

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

DATE 27/11/2025 REF 20260-7H

**NEWPARK PRECINCT 7
STAGE 7G**
REFER TO 9985-12-CC7001-CC7804
BY J WYNDHAM PRINCE



A	BIORETENTION M52 LAYOUT & DRAINAGE UPDATED	DG	DG	KE	KE	18/08/22
B	ISSUE FOR SWC APPROVAL	DS	NDW	KE	PM	18/03/22
C	ISSUE FOR CMA APPROVAL	DG	NDW	KE	PM	18/01/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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

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NEWPARK PRECINCT 7, STAGE 7H
CATCHMENT PLAN
SHEET 1

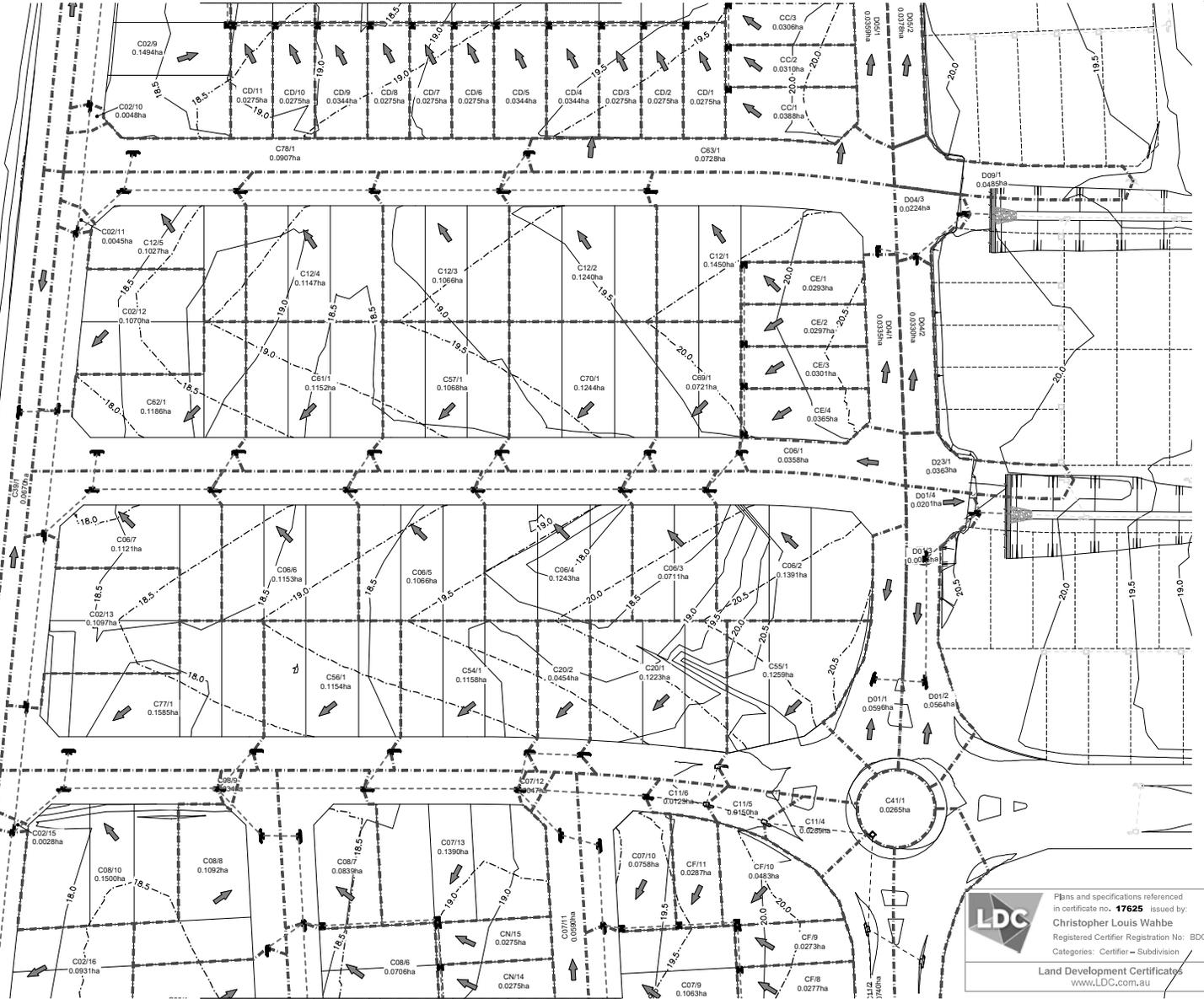
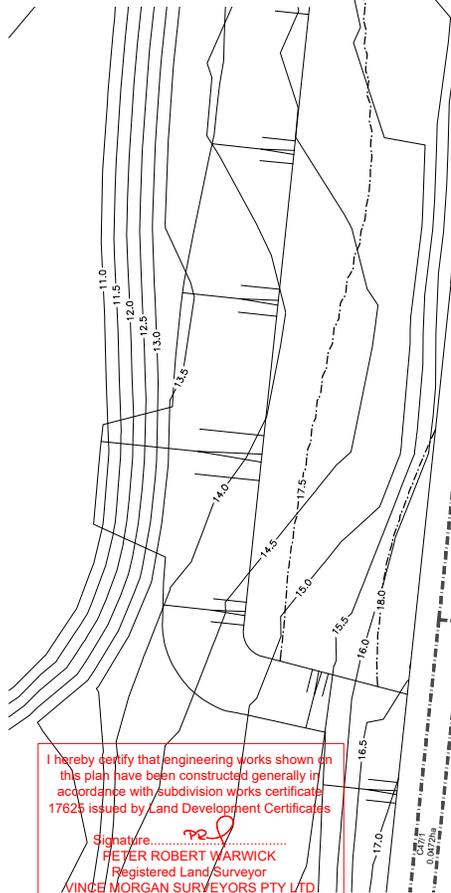
AZIMUTH: G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC18402

PROJECT No: **9985-12**
SHEET No: **CC18402**

Printed: 18 August 2025 3:36:42 PM File Name: J:\9985\DOC - Construction Certificate Approval Plans\PK12 - WESTERN PRECINCT18 - Precinct 7\9985-12-CC18402.dwg

REFER TO DRAWING CC180404 FOR CONTINUATION

LEGEND	
CATCHMENT BOUNDARY	---
EXISTING CATCHMENT BOUNDARY	---
FLOW DIRECTION ARROW	➔
EXISTING CONTOURS	—47.0—
DESIGN CONTOURS	- - -47.0- - -
DRAINAGE LINE & PIT	—
EXISTING DRAINAGE LINE & PIT	- - -
FUTURE DRAINAGE LINE & PIT	- - -



REFER TO DRAWING CC18402 FOR CONTINUATION

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

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

DATE 27/11/2025 REF 20260-7H

LDC Plans and specifications referenced in certificate no. **17625** issued by **Christopher Louis Wahbe** Registered Certifier Registration No: BDC 3015 Categories: Certifier - Subdivision

Land Development Certificates
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AMENDMENT	DES	DRN	CKD	APR	DATE	
B	ISSUE FOR S/WC APPROVAL	DC	NDW	KE	PM	08/03/22
A	ISSUE FOR CAA APPROVAL	DC	NDW	KE	PM	18/01/22

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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

CLIENT: **WINTEN PROPERTY GROUP**

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PROJECT No: **9985-12**

SHEET No: **CC18403**

PLAN No: **9985-12-CC18403**

DATE: 27/11/2025

PROJECT No: **9985-12**

SHEET No: **CC18403**

PLAN No: **9985-12-CC18403**

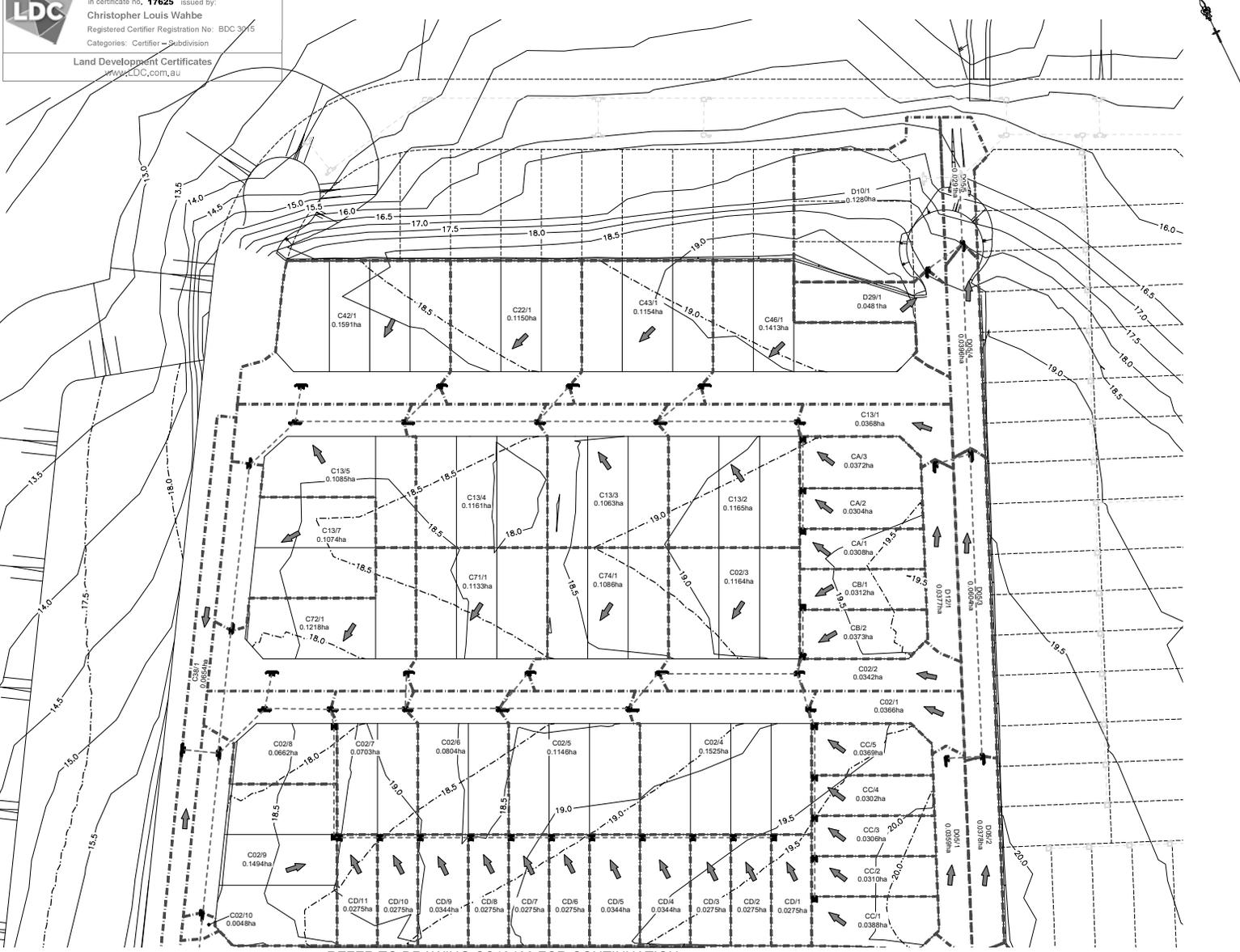
- GPT HYDRAULIC CHECKS (PIT C01/30)**
- GPT HIGH FLOW BYPASS WEIR HEIGHT = 1.4m
 - GPT HIGH FLOW BYPASS WEIR RL = 14.40
 - GPT HIGH FLOW BYPASS WEIR LENGTH = 3.6m
 - ADOPTED GPT VORTEX K FACTOR = 6
 - 2EY HGL IMMEDIATELY UPSTREAM OF GPT WITH ADOPTED K FACTOR = RL 14.40
 - ADOPTED K FACTOR FOR GPT HIGH FLOW BYPASS WEIR = 1.5
 - 10% AEP FLOW OVER GPT HIGH FLOW BYPASS WEIR = 0.78m³/s
 - DEPTH OF 10% AEP FLOW OVER GPT HIGH FLOW BYPASS WEIR FROM WEIR FLOW CALCULATION = 263mm
 - DEPTH OF 10% AEP FLOW OVER GPT HIGH FLOW BYPASS WEIR FROM HYDRAULIC MODEL = 276mm
 - 1% AEP FLOW OVER GPT HIGH FLOW BYPASS WEIR = 1.13m³/s
 - DEPTH OF 1% AEP FLOW OVER GPT HIGH FLOW BYPASS WEIR FROM WEIR FLOW CALCULATION = 324mm
 - DEPTH OF 1% AEP FLOW OVER GPT HIGH FLOW BYPASS WEIR FROM HYDRAULIC MODEL = 443mm

- SPLITTER PIT HYDRAULIC CHECKS (PIT C01/28)**
- 4EY HGL AT DOWNSTREAM GPT = RL 14.40
 - 4EY HGL AT SPLITTER PIT = RL 14.51
 - HIGH FLOW BYPASS WEIR LEVEL = RL 14.52
 - HIGH FLOW BYPASS WEIR LENGTH = 4m
 - ADOPTED K FACTOR FOR SPLITTER PIT HIGH FLOW BYPASS WEIR = 1.5
 - 10% AEP FLOW OVER HIGH FLOW BYPASS WEIR = 3.58m³/sec
 - DEPTH OF 10% AEP FLOW OVER HIGH FLOW BYPASS WEIR FROM WEIR FLOW CALCULATION = 65mm
 - DEPTH OF 10% AEP FLOW OVER HIGH FLOW BYPASS WEIR FROM HYDRAULIC MODEL = 62mm
 - 1% AEP FLOW OVER HIGH FLOW BYPASS WEIR = 4.37m³/sec
 - DEPTH OF 1% AEP FLOW OVER HIGH FLOW BYPASS WEIR FROM WEIR FLOW CALCULATION = 74mm
 - DEPTH OF 1% AEP FLOW OVER HIGH FLOW BYPASS WEIR FROM HYDRAULIC MODEL = 943mm

LDC Plans and specifications referenced in certificate no. **17625** issued by:
Christopher Louis Wahbe
Registered Certifier Registration No: BDC 3/0/5
Categories: Certifier - Subdivision
Land Development Certificates
www.LDC.com.au

LEGEND

- CATCHMENT BOUNDARY: - - - - -
- EXISTING CATCHMENT BOUNDARY: - - - - -
- FLOW DIRECTION ARROW: →
- EXISTING CONTOURS: ---47.0---
- DESIGN CONTOURS: ---47.0---
- DRAINAGE LINE & PIT: —●—
- EXISTING DRAINAGE LINE & PIT: —●—
- FUTURE DRAINAGE LINE & PIT: —○—



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

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

DATE 27/11/2025 REF 20260-7H

REFER TO DRAWING CC18403 FOR CONTINUATION

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

A	ISSUE FOR S/W APPROVAL	DC	NDW	KE	PM	08/03/22			
B	ISSUE FOR CAA APPROVAL	DC	NDW	KE	PM	18/01/22			
	AMENDMENT	DES	DRN	CKD	APR	DATE			

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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

CLIENT: **WINTEN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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NEWPARK PRECINCT 7, STAGE 7H CATCHMENT PLAN SHEET 3

AZIMUTH: G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC18404

PROJECT No: **9985-12**
SHEET No: **CC18404**

PIT SCHEDULE					
PIT NAME (1)	SURFACE FITTING TYPE AND SIZE	PIT EASTING	PIT NORTHING	PIT DEPTH (m)	COMMENTS
C01/25	1.8 m lintel	295616.38	6269650.67	4.59	LINTEL ONLY
C01/26	1.8 m lintel	295631.37	6269680.42	4.6	LINTEL ONLY
C01/27	2.4 m lintel	295646.52	6269719.23	4.64	LINTEL ONLY
C01/28	1.8 m lintel	295639.76	6269726	4.71	LINTEL ONLY
C01/29	NODE	295630.63	6269720.64	4.79	GPT INLET - 57.11 WORKS
C01/30	GPT	295632.19	6269717.27	4.89	GPT VORTEX - 57.11 WORKS
C01/31	NODE	295628.38	6269718.63	4.73	GPT OUTLET - 57.11 WORKS
C01/32	NODE	295579.51	6269655.32	2	SPLITTER PIT - 57.11 WORKS
C02/1	1.8 m lintel	295941.26	6269921.78	1.45	
C02/2	1.8 m lintel	295942.67	6269931.1	1.57	
C02/3	2.4 m lintel	295911.78	6269946.12	1.59	
C02/4	2.4 m lintel	295901.25	6269941.23	1.68	
C02/5	2.4 m lintel	295872.32	6269955.3	1.69	
C02/6	1.8 m lintel	295851.53	6269965.4	1.71	
C02/7	1.8 m lintel	295834.77	6269973.55	1.76	
C02/8	2.4 m lintel sag	295820.19	6269980.64	1.83	
C02/9	2.4 m lintel sag	295805.23	6269975.78	2.53	SPECIAL PIT
C02/10	1.8 m lintel	295784.24	6269942.19	3.01	SPECIAL PIT
C02/11	1.8 m lintel	295767.82	6269915.88	3.25	SPECIAL PIT
C02/12	1.8 m lintel	295745.30	6269879.95	3.27	SPECIAL PIT
C02/13	1.8 m lintel	295729.95	6269855.21	3.63	SPECIAL PIT
C02/14	1.8 m lintel	295708.3	6269820.52	4.19	SPECIAL PIT
C02/15	1.8 m lintel	295692.12	6269794.6	4.37	SPECIAL PIT
C02/16	1.8 m lintel	295674.08	6269759.08	4.4	SPECIAL PIT
C02/17	2.4 m lintel sag	295654.83	6269734.86	4.49	SPECIAL PIT
C05/1	1.8 m lintel	295731.57	6269553.27	1.35	LINTEL ONLY
C06/1	1.8 m lintel	295886.79	6269800.38	1.47	
C06/2	2.4 m lintel	295870.57	6269795.78	1.53	
C06/3	2.4 m lintel	295857.68	6269804.52	1.54	
C06/4	2.4 m lintel	295826.24	6269819.82	1.61	
C06/5	2.4 m lintel	295798.95	6269833.07	1.69	
C06/6	2.4 m lintel	295769.99	6269847.15	1.7	
C06/7	2.4 m lintel sag	295746.66	6269859.41	1.71	
C07/3	2.4 m lintel sag	295763.19	6269777.31	1.98	
C07/4	2.4 m lintel sag	295766.67	6269585.72	2.21	SPECIAL PIT
C07/5	1.8 m lintel	295760.83	6269599.61	2.44	SPECIAL PIT
C07/6	1.8 m lintel	295770.96	6269621.53	2.4	SPECIAL PIT
C07/7	2.4 m lintel	295763.19	6269584.44	2.32	SPECIAL PIT
C07/8	2.4 m lintel	295797.47	6269686.69	2.25	SPECIAL PIT
C07/9	1.8 m lintel	295808.74	6269713.5	2.19	SPECIAL PIT
C07/10	2.4 m lintel sag	295816.09	6269730.97	2.19	SPECIAL PIT
C07/11	2.4 m lintel sag	295808.95	6269717.19	2.3	SPECIAL PIT
C07/12	1.8 m lintel	295804.38	6269733.33	2.58	SPECIAL PIT
C07/13	2.4 m lintel	295771.57	6269767.44	2.62	SPECIAL PIT
C08/1	2.4 m lintel	295690.18	6269637.98	1.45	
C08/2	2.4 m lintel	295700.66	6269639.68	1.67	
C08/3	1.8 m lintel	295712.39	6269657.58	1.79	
C08/4	2.4 m lintel	295724.9	6269697.3	1.92	
C08/5	2.4 m lintel	295737.59	6269727.46	2.05	SPECIAL PIT
C08/6	1.8 m lintel	295745.03	6269745.14	2.14	SPECIAL PIT
C08/7	2.4 m lintel sag	295753	6269754.09	2.26	SPECIAL PIT
C08/8	2.4 m lintel sag	295749.93	6269768.17	2.52	SPECIAL PIT
C08/9	1.8 m lintel	295740.42	6269782.58	2.88	SPECIAL PIT
C08/10	2.4 m lintel sag	295707.5	6269798.59	3.12	SPECIAL PIT
C1/6	1.8 m lintel	295831.03	6269736.51	1.92	
C1/7	2.4 m lintel	295894.17	6269865.73	1.57	
C1/2	2.4 m lintel sag	295863.7	6269831.03	1.63	
C1/3	1.8 m lintel	295835.52	6269894.24	1.73	
C1/4	2.4 m lintel	295806.54	6269908.33	1.63	
C1/5	2.4 m lintel sag	295782.39	6269920.07	1.58	
C1/1	1.8 m lintel	295869.86	6269886.83	1.52	
C1/2	2.4 m lintel	295938.5	6270002.07	1.72	
C1/3	1.8 m lintel	295911.98	6270014.96	1.84	
C1/4	2.4 m lintel	295887.35	6270029.36	1.97	
C1/5	2.4 m lintel sag	295858	6270041.2	2.1	SPECIAL PIT
C1/6	1.8 m lintel	295833.14	6270036.54	2.54	SPECIAL PIT
C1/7	1.8 m lintel	295821.36	6270001.66	2.5	SPECIAL PIT
C2/1	2.4 m lintel	295821.44	6269752.41	1.54	
C2/2	1.8 m lintel	295810.35	6269758.37	1.54	
C2/3	1.8 m lintel	295810.35	6269758.37	1.54	
C2/4	1.8 m lintel	295810.35	6269758.37	1.54	
C2/5	1.8 m lintel	295810.35	6269758.37	1.54	
C2/6	1.8 m lintel	295810.35	6269758.37	1.54	
C2/7	1.8 m lintel	295810.35	6269758.37	1.54	
C2/8	1.8 m lintel	295810.35	6269758.37	1.54	
C2/9	1.8 m lintel	295810.35	6269758.37	1.54	
C2/10	1.8 m lintel	295810.35	6269758.37	1.54	
C2/11	1.8 m lintel	295810.35	6269758.37	1.54	
C2/12	1.8 m lintel	295810.35	6269758.37	1.54	
C2/13	1.8 m lintel	295810.35	6269758.37	1.54	
C2/14	1.8 m lintel	295810.35	6269758.37	1.54	
C2/15	1.8 m lintel	295810.35	6269758.37	1.54	
C2/16	1.8 m lintel	295810.35	6269758.37	1.54	
C2/17	1.8 m lintel	295810.35	6269758.37	1.54	
C2/18	1.8 m lintel	295810.35	6269758.37	1.54	
C2/19	1.8 m lintel	295810.35	6269758.37	1.54	
C2/20	1.8 m lintel	295810.35	6269758.37	1.54	
C2/21	1.8 m lintel	295810.35	6269758.37	1.54	
C2/22	1.8 m lintel	295810.35	6269758.37	1.54	
C2/23	1.8 m lintel	295810.35	6269758.37	1.54	
C2/24	1.8 m lintel	295810.35	6269758.37	1.54	
C2/25	1.8 m lintel	295810.35	6269758.37	1.54	
C2/26	1.8 m lintel	295810.35	6269758.37	1.54	
C2/27	1.8 m lintel	295810.35	6269758.37	1.54	
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C2/30	1.8 m lintel	295810.35	6269758.37	1.54	
C2/31	1.8 m lintel	295810.35	6269758.37	1.54	
C2/32	1.8 m lintel	295810.35	6269758.37	1.54	
C2/33	1.8 m lintel	295810.35	6269758.37	1.54	
C2/34	1.8 m lintel	295810.35	6269758.37	1.54	
C2/35	1.8 m lintel	295810.35	6269758.37	1.54	
C2/36	1.8 m lintel	295810.35	6269758.37	1.54	
C2/37	1.8 m lintel	295810.35	6269758.37	1.54	
C2/38	1.8 m lintel	295810.35	6269758.37	1.54	
C2/39	1.8 m lintel	295810.35	6269758.37	1.54	
C2/40	1.8 m lintel	295810.35	6269758.37	1.54	
C2/41	1.8 m lintel	295810.35	6269758.37	1.54	
C2/42	1.8 m lintel	295810.35	6269758.37	1.54	
C2/43	1.8 m lintel	295810.35	6269758.37	1.54	
C2/44	1.8 m lintel	295810.35	6269758.37	1.54	
C2/45	1.8 m lintel	295810.35	6269758.37	1.54	
C2/46	1.8 m lintel	295810.35	6269758.37	1.54	
C2/47	1.8 m lintel	295810.35	6269758.37	1.54	
C2/48	1.8 m lintel	295810.35	6269758.37	1.54	
C2/49	1.8 m lintel	295810.35	6269758.37	1.54	
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C2/55	1.8 m lintel	295810.35	6269758.37	1.54	
C2/56	1.8 m lintel	295810.35	6269758.37	1.54	
C2/57	1.8 m lintel	295810.35	6269758.37	1.54	
C2/58	1.8 m lintel	295810.35	6269758.37	1.54	
C2/59	1.8 m lintel	295810.35	6269758.37	1.54	
C2/60	1.8 m lintel	295810.35	6269758.37	1.54	
C2/61	1.8 m lintel	295810.35	6269758.37	1.54	
C2/62	1.8 m lintel	295810.35	6269758.37	1.54	
C2/63	1.8 m lintel	295810.35	6269758.37	1.54	
C2/64	1.8 m lintel	295810.35	6269758.37	1.54	
C2/65	1.8 m lintel	295810.35	6269758.37	1.54	
C2/66	1.8 m lintel	295810.35	6269758.37	1.54	
C2/67	1.8 m lintel	295810.35	6269758.37	1.54	
C2/68	1.8 m lintel	295810.35	6269758.37	1.54	
C2/69	1.8 m lintel	295810.35	6269758.37	1.54	
C2/70	1.8 m lintel	295810.35	6269758.37	1.54	
C2/71	1.8 m lintel	295810.35	6269758.37	1.54	
C2/72	1.8 m lintel	295810.35	6269758.37	1.54	
C2/73	1.8 m lintel	295810.35	6269758.37	1.54	
C2/74	1.8 m lintel	295810.35	6269758.37	1.54	
C2/75	1.8 m lintel	295810.35	6269758.37	1.54	
C2/76	1.8 m lintel	295810.35	6269758.37	1.54	
C2/77	1.8 m lintel	295810.35	6269758.37	1.54	
C2/78	1.8 m lintel	295810.35	6269758.37	1.54	
C2/79	1.8 m lintel	295810.35	6269758.37	1.54	
C2/80	1.8 m lintel	295810.35	6269758.37	1.54	
C2/81	1.8 m lintel	295810.35	6269758.37	1.54	
C2/82	1.8 m lintel	295810.35	6269758.37	1.54	
C2/83	1.8 m lintel	295810.35	6269758.37	1.54	
C2/84	1.8 m lintel	295810.35	6269758.37	1.54	
C2/85	1.8 m lintel	295810.35	6269758.37	1.54	
C2/86	1.8 m lintel	295810.35	6269758.37	1.54	
C2/87	1.8 m lintel	295810.35	6269758.37	1.54	
C2/88	1.8 m lintel	295810.35	6269758.37	1.54	
C2/89	1.8 m lintel	295810.35	6269758.37	1.54	
C2/90	1.8 m lintel	295810.35	6269758.37	1.54	
C2/91	1.8 m lintel	295810.35	6269758.37	1.54	
C2/92	1.8 m lintel	295810.35	6269758.37	1.54	
C2/93	1.8 m lintel	295810.35	6269758.37	1.54	
C2/94	1.8 m lintel	295810.35	6269758.37	1.54	
C2/95	1.8 m lintel	295810.35	6269758.37	1.54	
C2/96	1.8 m lintel	295810.35	6269758.37	1.54	
C2/97	1.8 m lintel	295810.35	6269758.37	1.54	
C2/98	1.8 m lintel	295810.35	6269758.37	1.54	
C2/99	1.8 m lintel	295810.35	6269758.37	1.54	
C2/100	1.8 m lintel	295810.35	6269758.37	1.54	

PIT SCHEDULE					
PIT NAME (1)	SURFACE FITTING TYPE AND SIZE	PIT EASTING (m)	PIT NORTHING (m)	PIT DEPTH (m)	COMMENTS
C66/1	1.8 m lintel	295701.92	6269665.9	1.46	
C67/1	2.4 m lintel	295714.4	6269695.55	1.45	
C68/1	2.4 m lintel	295726.86	6269725.16	1.45	
C69/1	1.8 m lintel	295867.18	6269809.91	1.46	
C70/1	2.4 m lintel	295835.34	6269825.39	1.46	
C71/1	1.8 m lintel	295855.7	6269973.38	1.45	
C72/1	2.4 m lintel sag	295825.77	6269987.93	1.44	
C74/1	1.8 m lintel	295882.77	6269960.23	1.46	
C77/1	2.4 m lintel sag	295712.52	6269806.15	1.44	
C78/1	2.4 m lintel sag	295788.35	6269927.18	1.44	
CA/1	1AD 600x900			0.76	
CA/2	1AD 600x900			0.77	
CA/3	1AD 900x900				

DESIGN STORM 10% AEP HYDROLOGIC RESULTS																			
PIT NAME (-)	PIT TYPE (-)	CATCHMENT AREA (Ha)	PERCENT IMPERVIOUS (%)	Tc IMP (min)	Tc PERV (min)	CRITICAL STORM (min)	APPROACH FLOW (L/s)	CAPTURED FLOW (L/s)	UNCAPTURED FLOW (L/s)	GRATE DEPTH (mm)	ROAD GRADE (%)	ROAD CROSSFALL (%)	BYPASS PIT (-)	FLOW AT BYPASS PIT (L/s)	FLOW WIDTH AT BYPASS PIT (m)	VAD AT BYPASS PIT (m/s ²)	COMMENTS (-)		
C01/24	1.8 m lintel	0.1	85	5	5	15	37	35	2	72	0.7	3	C02/8	21	1.55	0.04			
C01/25	1.8 m lintel	0.055	85	5	5	15	24	21	0	87	0.6	3	C01/24	37	2	0.05			
C01/26	1.8 m lintel	0.076	85	5	5	15	29	28	1	85	0.5	3	C01/27	51	2.31	0.06			
C01/27	2.4 m lintel	0.138	85	5	5	25	51	48	3	94	0.7	3	C02/17	33	1.89	0.05			
C01/28	1.8 m lintel	0.028	100	5	5	5	12	12	0	0	0.6	3	C26/1	0	0.25	0.02	SPLITTER PIT		
C01/29	NODE	0	0	0	0	0	0	0	0	0	0	0					GPT INLET		
C01/30	GPT	0	0	0	0	0	0	0	0	0	0	0					GPT VORTEX		
C01/31	NODE	0	0	0	0	0	0	0	0	0	0	0					GPT OUTLET		
C02/1	1.8 m lintel	0.037	95	5	5	25	14	14	0	91	1.1	3	C02/4	56	2.21	0.07			
C02/2	1.8 m lintel	0.034	95	5	5	25	13	13	0	84	1.1	3	C02/3	43	1.96	0.06			
C02/3	2.4 m lintel	0.116	85	5	5	15	43	41	1	83	1.1	3	C74/1	41	2.01	0.05			
C02/4	2.4 m lintel	0.152	85	5	5	25	56	53	3	86	1.1	3	C02/5	45	2.01	0.06			
C02/5	2.4 m lintel	0.115	85	5	5	25	45	42	3	78	1.1	3	C02/6	32	1.74	0.05			
C02/6	1.8 m lintel	0.08	85	5	5	25	32	30	3	75	1.1	3	C02/7	28	1.64	0.05			
C02/7	1.8 m lintel	0.07	85	5	5	15	28	28	1	66	1.1	3	C02/8	16	1.34	0.03			
C02/8	2.4 m lintel sag	0.066	85	5	5	15	18	18	0	41	0.6	2.2	C02/9	0	0.91	0			
C02/9	2.4 m lintel sag	0.109	85	5	5	5	48	48	0	53	0.1	3	C38/1	1	0	0			
C02/10	1.8 m lintel	0.005	95	5	5	15	2	2	0	80	0.7	3	C02/9	24	1.66	0.04			
C02/11	1.8 m lintel	0.005	95	5	5	25	1	1	0	85	0.7	3	C02/12	39	1.9	0.05			
C02/12	1.8 m lintel	0.107	85	5	5	15	33	31	2	66	0.7	3.7	C62/1	13	1.19	0.03			
C02/13	1.8 m lintel	0.11	85	5	5	15	41	36	5	67	0.7	3	C06/7	21	1.37	0.04			
C02/14	1.8 m lintel	0	0	0	0	0	0	0	0	0	0	0	XP81/1	0	0	0			
C02/15	1.8 m lintel	0.003	95	5	5	15	1	1	0	82	0.7	3.2	C02/16	34	2.43	0.03			
C02/16	1.8 m lintel	0.093	85	5	5	25	28	27	2	98	0.7	3	C02/17	44	2.17	0.05			
C02/17	2.4 m lintel sag	0.201	85	5	5	5	77	77	0	70	0	3	C47/1	0	0	0			
C05/1	1.8 m lintel	0.016	95	5	5	5	6	6	0	39	0.7	3	C02/1	7	1.6	0.01			
C05/2	1.8 m lintel	0.019	95	5	5	25	7	7	0	74	2.1	3	C05/3	36	1.61	0.06			
C06/1	1.8 m lintel	0.036	95	5	5	15	14	14	0	71	1.4	3	C69/1	27	1.95	0.04			
C06/2	2.4 m lintel	0.139	85	5	5	15	52	47	5	74	1.4	3	C06/3	30	1.92	0.04			
C06/3	2.4 m lintel	0.071	85	5	5	15	30	30	0	83	1.4	3	C06/4	46	1.92	0.06			
C06/4	2.4 m lintel	0.124	85	5	5	15	49	43	3	81	1.4	3	C06/5	42	1.9	0.06			
C06/5	2.4 m lintel	0.107	85	5	5	25	42	40	2	82	1.4	3	C06/6	44	1.9	0.05			
C06/6	2.4 m lintel	0.115	85	5	5	15	44	42	3	72	1.4	3	C06/7	28	1.56	0.05			
C06/7	2.4 m lintel sag	0.112	85	5	5	15	49	49	0	58	0.7	2.7	C62/1	0	0	0			
C07/1	2.4 m lintel sag	0.049	95	5	5	5	11	11	0	30	0.4	2.6	C07/2	0	0	0			
C07/2	2.4 m lintel sag	0.131	85	5	5	15	42	42	0	55	0.7	3	C07/3	0	0	0			
C07/3	2.4 m lintel sag	0.12	85	5	5	15	36	36	0	46	0.7	2.9	C07/4	0	0	0			
C07/4	2.4 m lintel sag	0.033	95	5	5	5	4	4	0	13	0.7	2.7	C07/5	0	1.32	0			
C07/5	1.8 m lintel	0.005	95	5	5	15	0	0	0	65	1.3	3	C07/6	20	1.94	0.03			
C07/6	1.8 m lintel	0.054	85	5	5	15	29	20	0	82	1.3	3	C07/7	46	1.99	0.06			
C07/7	2.4 m lintel	0.125	85	5	5	15	46	43	3	85	1.3	3	C07/8	49	1.99	0.06			
C07/8	2.4 m lintel	0.124	85	5	5	15	49	45	4	82	1.3	3	C07/9	42	1.88	0.06			
C07/9	1.8 m lintel	0.106	85	5	5	15	42	36	6	66	1.3	3	C07/10	20	1.33	0.04			
C07/10	2.4 m lintel sag	0.076	85	5	5	5	34	34	0	46	0.9	2.5	C07/11	0	0	0			
C07/11	2.4 m lintel sag	0.059	95	5	5	15	29	20	0	33	0.6	3	C07/12	0	2.23	0			
C07/12	1.8 m lintel	0.005	95	5	5	25	1	1	0	90	1.5	3	C07/13	51	2.14	0.05			
C07/13	2.4 m lintel	0.139	85	5	5	15	50	47	3	61	0.7	3	C08/7	19	1.16	0.04			
C08/1	2.4 m lintel	0.13	85	5	5	25	49	47	2	91	0.7	3	C66/1	46	2.31	0.05			
C08/2	2.4 m lintel	0.12	85	5	5	25	45	43	2	89	0.7	3	C08/3	41	2.24	0.05			
C08/3	1.8 m lintel	0.107	85	5	5	25	41	36	5	92	0.7	3	C08/4	47	2.23	0.05			
C08/4	2.4 m lintel	0.115	85	5	5	25	47	45	2	91	0.7	3	C08/5	45	2.18	0.05			
C08/5	2.4 m lintel	0.116	85	5	5	25	45	43	2	79	0.7	3	C08/6	28	1.75	0.04			
C08/6	1.8 m lintel	0.071	85	5	5	15	28	26	2	68	0.7	3	C08/7	16	1.34	0.03			
C08/7	2.4 m lintel sag	0.084	85	5	5	15	35	35	0	51	0.6	2.8	C08/8	0	0	0			
C08/8	2.4 m lintel sag	0.109	85	5	5	5	38	38	0	48	0.4	2.1	C08/9	0	2.24	0.01			
C08/9	1.8 m lintel	0.003	95	5	5	25	1	1	0	92	0.7	3.7	C08/10	44	1.99	0.05			
C08/10	2.4 m lintel sag	0.15	85	5	5	5	42	42	0	50	0.4	2.1	C02/15	0	1.87	0.01			
C11/5	1.8 m lintel	0.015	95	5	5	15	5	5	0	36	7	2.7	C11/6	5	0.85	0.01			
C11/6	1.8 m lintel	0.012	95	5	5	15	5	5	0	52	7	2	C02/10	14	0.85	0.04			
C12/1	2.4 m lintel	0.145	85	5	5	15	54	50	4	97	0.8	3	C12/2	49	2.23	0.06			
C12/2	2.4 m lintel	0.124	85	5	5	15	49	46	3	87	0.8	3	C12/3	41	2.06	0.05			
C12/3	1.8 m lintel	0.107	85	5	5	25	41	36	5	83	0.8	3	C12/4	47	1.93	0.06			
C12/4	2.4 m lintel	0.115	85	5	5	15	47	44	3	69	2.1	3	C12/5	31	1.43	0.06			
C12/5	2.4 m lintel sag	0.103	85	5	5	25	38	38	0	48	0.5	3.1	C02/11	0	1.98	0.01			
C13/1	1.8 m lintel	0.037	95	5	5	15	14	14	0	90	0.7	3	C13/2	43	2.14	0.05			
C13/2	2.4 m lintel	0.117	85	5	5	15	43	42	1	87	0.7	3	C13/3	39	2.22	0.05			
C13/3	1.8 m lintel	0.106	85	5	5	15	39	34	5	92	0.7	3	C13/4	46	2.22	0.05			
C13/4	2.4 m lintel	0.116	85	5	5	15	46	45	1	89	0.7	3	C13/5	40	2.09	0.05			
C13/5	2.4 m lintel sag	0.109	85	5	5	15	40	40	0	56	0.4	3.3	C42/1	0	0	0			
C13/6	1.8 m lintel	0	0	0	0	0	0	0	0	0	0	0							
C13/7	1.8 m lintel	0.107	85	5	5	25	40	35	5	80	0.7	3	C02/9	23	1.62	0.04			
C20/1	2.4 m lintel	0.122	85	5	5	15	49	47	2	62	7	3	C20/2	19	1.98	0.02			
C20/2	1.8 m lintel	0.045	85	5	5	15	19	19	0	85	1.6	3	C51/1	43	2.16	0.05			
C22/1	1.8 m lintel	0.115	85	5	5	25	43	39	4	96	0.7	3	C42/1	40	2.26	0.05			
C36/1	1.8 m lintel	0.075	85	5	5	15	29	28	1	86	0.7	3	C08/8	31	1.84	0.04			
C38/1	2.4 m lintel sag	0.065	100	5	5	5	22	20	0	32	0.1	3	LOST	0	0	0			
C39/1	2.4 m lintel sag	0.067	100	5	5	5	21	20	0	32	0.1	3	LOST	0	0	0			
C42/1	2.4 m lintel sag	0.159	85	5	5	5	49	48	0	54	0.2	2	LOST	0	0	0			
C43/1	2.4 m lintel	0.115	85	5	5	25	45	44	1	90	0.7	3	C2/1	43	2.36	0.05			
C46/1	2.4 m lintel	0.141	85	5	5	25	53	49	4	91	0.7	3	C43/1	45	2.2	0.05			
C47/1	2.4 m lintel sag	0.047	100	5	5	5	14	14	0	25	0	3	LOST	0	0	0			
C51/1	1.8 m lintel	0.045	95	5	5	15	17	17	0	65	1.6	3	C64/1	19	1.3	0.04			
C54/1	2.4 m lintel	0.116	85	5	5	25	42	41	2	80	0.7	3	C54/1	49	2.46	0.05			
C56/1	2.4 m lintel	0.115	85	5	5	25	43	42	2	99	0.7	3	C77/1	59	2.46	0.06			
C57/1	2.4 m lintel	0.107	85	5	5	25	42	40	2	82	1.4	3	C61/1	45	1.9	0.06			

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

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

DATE 27/11/2025 REF 20260-7H

 Plans and specifications referenced in certificate no. **17625** issued by Christopher Louis Wahbe
Registered Certifier Registration No: BDC 3015
Categories: Certifier - Subdivision

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DESIGN STORM 10% AEP HYDRAULIC RESULTS																				
PIPE NAME (L)	PIPE DIAMETER (mm)	PIPE TYPE	PIPE LENGTH (m)	PIPE GRADE (%)	CRITICAL STORM (mm)	PEAK FLOW (L/s)	PEAK RATIO (%)	PEAK VELOCITY (m/s)	PIPE U/S/L (m)	PIPE D/S/L (m)	PIPE D/S DROP (%)	U/S PIT (m)	D/S PIT (m)	PIT LOSS (m)	WSE LOSS (m)	U/S PIPE HGL (m)	D/S PIPE HGL (m)	HGL MINIMUM COVER (%)	MINIMUM FREEBOARD (m)	COMMENTS
C01/24 to C01/25	1350	RR12	35.73	0.3	25	3113	0.98	2.17	13.608	13.501	0.05	1.6	1.67	0.13	0.14	15.806	15.702	0.29	2.76	1.887
C01/25 to C01/26	1350	RR12	33.49	0.3	25	3113	0.78	1.99	13.608	13.501	0.05	1.6	1.67	0.13	0.14	15.702	15.600	0.17	2.01	2.14
C01/26 to C01/27	1500	RR12	41.67	0.3	25	3143	0.75	1.78	13.13	13.175	0.05	4.37	0.24	0.05	0.04	15.608	15.536	0.17	3.16	2.415
C01/27 to C01/28	1500	RR12	9.57	0.4	25	3175	0.66	1.8	13.125	13.087	0.05	1.47	1.56	0.23	0.24	15.308	15.291	0.18	3.11	2.229
C01/28 to C01/29	1050	RR12	10.59	0.35	25	2098	1.2	2.42	13.037	13	0	1.5	1.5	0.45	0.45	14.843	14.79	0.5	3.67	2.455
C01/29 to C01/30	GPT	INLET	3.72	0	5	1602	3.38	1.36	13	13	0	1.5	1.5	0.14	0.14	14.76	14.739	0.03	3.41	3.001
C01/30 to C01/31	GPT	OUTLET	4.04	0	5	1430	3.15	1.6	13	13	0	5.6	5.6	0.41	0.41	14.647	14.646	0.02	3.4	3.128
C02/1 to C02/2	375	RR12	9.45	1	25	24	0.96	1.16	19.409	19.365	0.05	1	0.94	0.06	0.07	19.410	19.37	0.04	1.1	1.139
C02/2 to C02/3	375	RR12	34.35	1	25	112	0.59	1.32	17.315	16.971	0.05	1.75	2	0.13	0.1	17.441	17.259	0.53	1.14	1.312
C02/3 to C02/4	450	RR12	11.61	1	25	152	0.49	1.43	16.921	16.805	0.051	1.58	1.48	0.1	0.07	17.161	17.06	0.87	1.15	1.256
C02/4 to C02/5	525	RR12	32.16	1	25	211	0.45	1.49	16.755	16.433	0.03	1.42	1.5	0.18	0.07	16.944	16.974	-0.09	1.1	1.377
C02/5 to C02/6	525	RR12	23.12	1	15	280	0.6	1.66	16.803	16.172	0.03	0.91	0.8	0.13	0.07	16.932	16.976	0.24	1.11	1.119
C02/6 to C02/7	525	RR12	18.63	1	15	339	0.73	1.84	16.342	15.955	0.064	0.6	0.57	0.09	0.07	16.832	16.764	0.37	1.13	0.971
C02/7 to C02/8	600	RR12	16.21	1	15	470	0.71	1.81	15.891	15.729	0.05	0.52	0.49	0.09	0.07	16.717	16.659	0.36	1.1	0.884
C02/8 to C02/9	600	RR12	15.73	1	20	566	0.85	2.09	15.679	15.522	0.347	0.76	0.76	0.15	0.15	16.564	16.489	0.48	1.37	0.847
C02/9 to C02/10	825	RR12	39.63	0.6	20	1045	0.85	2.14	15.174	14.936	0.03	0.53	0.62	0.14	0.1	16.429	16.325	0.26	1.65	1.711
C02/10 to C02/11	825	RR12	31.02	0.6	20	1048	0.8	2.11	14.906	14.72	0.03	0.21	0.21	0.07	0.03	16.307	16.207	0.32	1.14	1.591
C02/11 to C02/12	900	RR12	42.35	0.6	10	1166	0.77	2.14	14.69	14.436	0.03	1.68	2.04	0.17	0.2	16.15	16.022	0.3	2.26	1.735
C02/12 to C02/13	900	RR12	29.17	0.6	25	1159	0.76	2.05	14.406	14.231	0.03	0.32	0.31	0.09	0.05	15.979	15.883	0.33	2.3	1.654
C02/13 to C02/14	1050	RR12	40.89	0.6	5	1721	0.75	2.4	14.201	13.956	0.03	0.58	2.4	0.22	0.25	15.786	15.876	-0.22	2.51	1.949
C02/14 to C02/15	1050	RR12	30.56	0.6	5	1683	0.73	2.17	13.723	13.573	0.03	0.7	2.04	0.04	0.04	15.861	15.749	0.37	2.06	2.217
C02/15 to C02/16	1350	RR12	45.4	0.6	25	2774	0.62	2.73	13.712	13.44	0.03	0.17	0.34	0.08	0.03	15.729	15.458	0.6	2.94	2.335
C02/16 to C02/17	1350	RR12	25.01	0.6	25	2794	0.62	2.07	13.41	13.26	0.05	0.26	0.23	0.09	0.04	15.432	15.331	0.4	2.97	2.356
C02/17 to C01/28	1350	RR12	17.48	0.6	20	2878	0.64	2.01	13.21	13.105	0.068	7.84	0.45	0.09	0.09	15.255	15.172	0.47	3.11	2.369
C05/1 to C06/2	375	RR12	14.96	3.47	15	6	0.02	1.05	19.432	18.913	2.1	4.5	4.5	0.02	0	19.455	18.947	3.4	1.1	1.308
C06/1 to C06/2	375	RR12	12.03	1	15	65	0.84	1.03	18.802	18.802	0.053	1.26	1.19	0.08	0.02	18.354	18.333	0.17	1.1	1.217
C06/2 to C06/3	375	RR12	20	1.16	25	108	0.53	1.36	18.05	17.818	0.048	2.26	2.25	0.16	0.11	18.178	18.07	0.54	1.1	1.248
C06/3 to C06/4	375	RR12	35	1.23	25	160	0.76	1.86	17.77	17.339	0.124	0.96	0.95	0.1	0.1	17.975	17.583	1.12	1.1	1.237
C06/4 to C06/5	450	RR12	30.31	1.23	25	242	0.73	2	17.215	16.842	0.116	0.94	0.92	0.14	0.1	17.439	17.121	1.05	1.1	1.252
C06/5 to C06/6	450	RR12	32	1.24	25	312	0.6	2.1	16.76	16.337	0.05	0.7	2.04	0.04	0.04	16.385	16.887	0.16	1.1	1.339
C06/6 to C06/7	525	RR12	28.17	1.19	25	389	0.77	1.8	16.726	15.942	0.05	0.69	0.62	0.16	0.09	16.796	16.602	0.69	1.1	1.085
C06/7 to C02/13	525	RR12	15.31	1	25	477	1.02	2.26	15.892	15.739	1.538	0.93	0.93	0.23	0.23	16.382	16.197	1.21	1.33	1.005
C07/1 to C07/2	375	RR12	9	2	15	18	0.07	0.8	19.149	18.969	0.05	4.5	4.5	0.08	0.01	19.162	19.159	0.03	1.1	1.349
C07/2 to C07/3	375	RR12	40.33	1	25	75	0.39	1.09	18.919	18.516	0.05	5.84	4.94	0.17	0.1	19.098	19.108	-0.02	1.26	1.426
C07/3 to C07/4	375	RR12	9.03	2	20	102	0.7	1.22	18.556	18.556	0.05	0.8	0.8	0.11	0.08	19.051	19.051	0.08	1.14	1.355
C07/4 to C07/5	375	RR12	14.99	1	20	108	0.57	1.47	18.235	18.085	0.05	0.76	0.75	0.09	0.04	19.06	19.044	0.11	0.98	1.371
C07/5 to C07/6	375	RR12	23.78	1	20	114	0.6	1.28	18.035	17.798	0.03	0.6	0.6	0.08	0.03	19.035	19.008	0.11	1.97	1.432
C07/6 to C07/7	375	RR12	35.71	1	5	149	0.78	1.52	17.768	17.411	0.03	1.6	2.57	0.14	0.14	18.957	18.841	0.32	1.9	1.158
C07/7 to C07/8	375	RR12	34.99	1	20	178	0.94	1.62	17.381	17.031	0.03	1.26	1.2	0.13	0.1	18.295	18.62	0.5	1.83	0.86
C07/8 to C07/9	375	RR12	29.08	1	25	245	1.29	2.22	17.001	16.71	0.02	1.19	1.17	0.14	0.11	18.548	18.903	0.84	1.76	0.636
C07/9 to C07/10	450	RR12	18.95	1	20	304	0.98	1.91	16.68	16.49	0.05	1.45	1.7	0.24	0.26	18.093	17.911	0.56	1.66	0.564
C07/10 to C07/11	450	RR12	9.48	1	25	346	1.12	2.17	16.44	16.345	0.05	1.5	1.64	0.32	0.35	17.641	17.537	1.1	1.76	0.718
C07/11 to C07/12	525	RR12	14.85	1	25	393	0.84	1.88	16.295	16.147	0.05	0.3	0.3	0.07	0.05	17.499	17.42	0.53	1.92	1.064
C07/12 to C07/13	600	RR12	36.56	1	25	842	0.81	2	16.097	15.721	0.03	1.66	1.88	0.25	0.29	17.182	16.943	0.65	1.98	1.253
C07/13 to C08/8	600	RR12	34.63	1	25	604	0.91	2.24	15.700	15.355	0.189	0.54	0.54	0.15	0.11	16.854	16.571	0.82	1.97	1.379
C08/1 to C08/2	375	RR12	10.61	2	20	46	0.17	1	17.387	17.167	0.05	4.5	4.5	0.16	0.04	17.935	17.933	0.02	1.1	1.881
C08/2 to C08/3	375	RR12	30.26	1	20	87	0.46	1.16	17.117	16.815	0.03	4.34	2.44	0.17	0.08	17.912	17.888	0.08	1.25	0.858
C08/3 to C08/4	375	RR12	32.25	1	5	136	0.72	1.39	16.785	16.462	0.03	1.26	1.15	0.13	0.09	17.852	17.756	0.3	1.38	0.629
C08/4 to C08/5	375	RR12	32.72	1	25	205	1.08	1.85	16.432	16.105	0.03	1.08	1.13	0.13	0.12	17.685	17.481	0.74	1.5	0.597
C08/5 to C08/6	450	RR12	19.18	1	25	276	0.89	1.84	16.075	15.883	0.03	1.08	0.95	0.1	0.08	17.391	17.291	0.52	1.55	0.681
C08/6 to C08/7	525	RR12	20.55	1	25	396	0.85	1.83	15.853	15.648	0.05	1.49	1.63	0.21	0.23	17.102	16.958	0.7	1.56	0.698
C08/7 to C08/8	600	RR12	9.02	2	25	426	0.45	1.51	15.598	15.417	0.05	2	2.52	0.2	0.25	16.772	16.737	0.39	1.69	0.897
C08/8 to C08/9	600	RR12	15.15	1	25	458	0.69	1.62	15.367	15.216	0.05	0.94	0.93	0.11	0.1	16.639	16.671	0.46	2.06	1.152
C08/9 to C08/10	675	RR12	36.16	1	25	1088	1.2	2.04	15.166	14.87	0.05	0.35	0.29	0.13	0.13	16.438	16.938	0.16	2.15	1

DESIGN STORM 10% AEP HYDRAULIC RESULTS																					
PIPE NAME (-)	PIPE DIAMETER (mm)	PIPE TYPE (-)	PIPE LENGTH (m)	PIPE GRADE (%)	CRITICAL STORM (min)	PEAK FLOW (L/s)	CAPACITY RATIO (-)	PEAK VELOCITY (m/s)	PIPE U/S IL (m)	PIPE D/S IL (m)	PIPE D/S DROP (m)	U/S PIT Ku (-)	D/S PIT Kw (-)	PIT LOSS (Ku.V/head) (m)	WSE LOSS (Kw.V/head) (m)	U/S PIPE HGL (m)	D/S PIPE HGL (m)	HGL GRADE (%)	MINIMUM COVER (m)	MINIMUM FREEBOARD (m)	COMMENTS
C63/1 to C12/2	375	RRJ2	11.07	1	15	25	0.13	0.79	17.711	17.6	0.111	4.5	4.5	0.09	0.01	17.77	17.769	0.01	1.1	1.311	
C64/1 to C07/8	375	RRJ2	10.72	2	25	29	0.11	0.98	17.86	17.646	0.214	4.5	4.5	0.12	0.02	18.021	18.02	0.01	1.1	0.697	
C66/1 to C08/3	375	RRJ2	10.6	2	20	38	0.14	1.11	17.161	16.949	0.212	4.5	4.5	0.14	0.03	17.891	17.888	0.03	1.1	0.713	
C67/1 to C08/4	375	RRJ2	10.64	2	5	42	0.16	1.15	16.942	16.729	0.213	4.5	4.5	0.15	0.03	17.759	17.756	0.03	1.1	0.616	
C68/1 to C08/5	375	RRJ2	10.98	2	25	42	0.16	1.15	16.716	16.496	0.22	4.5	4.5	0.15	0.03	17.446	17.443	0.03	1.1	0.704	
C69/1 to C06/3	375	RRJ2	10.92	1	15	24	0.13	0.85	17.929	17.82	0.09	4.5	4.5	0.09	0.01	18.058	18.07	-0.11	1.1	1.284	
C70/1 to C06/4	375	RRJ2	10.7	1.5	25	42	0.18	0.88	17.451	17.29	0.161	4.5	4.5	0.14	0.03	17.553	17.576	-0.21	1.1	1.249	
C71/1 to C02/6	375	RRJ2	9	2	25	38	0.14	0.96	16.402	16.222	0.08	4.5	4.5	0.13	0.03	16.878	16.876	0.02	1.1	0.955	
C72/1 to C02/8	375	RRJ2	9.18	2	15	54	0.2	1.06	16.06	15.876	0.184	4.5	4.5	0.16	0.06	16.663	16.659	0.04	1.1	0.808	
C74/1 to C02/5	375	RRJ2	11.55	2	25	37	0.14	0.95	16.708	16.477	0.231	4.5	4.5	0.14	0.03	16.973	16.974	-0.01	1.1	1.176	
C77/1 to C08/10	375	RRJ2	9.08	2	25	69	0.26	1.24	16.401	16.219	0.182	4.5	4.5	0.18	0.09	16.465	16.349	1.28	1.1	1.192	
C78/1 to C12/5	375	RRJ2	9.28	1.25	25	50	0.24	0.68	16.379	16.263	0.116	4.5	4.5	0.09	0.05	16.919	16.915	0.04	1.1	0.875	
D01/2 to D01/3	375	RRJ2	29.19	1	15	44	0.23	1.21	18.563	18.271	0.05	3.66	3.12	0.07	0.02	18.645	18.394	0.86	1.26	1.368	
D01/3 to D01/4	375	RRJ2	16.38	1	25	44	0.23	1.26	18.221	18.057	0.05	0.74	0.76	0.04	0.01	18.317	18.18	0.84	1.71	1.913	
D01/4 to D01/5	375	RRJ2	25.9	1	25	51	0.27	1.16	18.007	17.748	0.05	1.12	1.08	0.06	0.01	18.087	18.004	0.32	1.47	1.846	
D04/1 to D04/2	375	RRJ2	9.25	2	15	12	0.05	0.87	18.726	18.541	0.05	4.5	4.5	0.06	0	18.748	18.608	1.51	1.1	1.369	
D04/2 to D04/3	375	RRJ2	15.34	1	25	25	0.13	0.99	18.491	18.338	0.153	4.22	2.81	0.07	0.01	18.544	18.429	0.75	1.15	1.579	
D04/3 to D04/4	375	RRJ2	24.3	1	15	32	0.17	1.13	18.206	17.963	0.05	1.5	1.5	0.04	0.01	18.282	18.087	0.8	1.1	1.395	
D05/1 to D05/2	375	RRJ2	9	2	15	13	0.05	0.93	18.217	18.037	0.05	4.5	4.5	0.06	0	18.241	18.093	1.64	1.1	1.364	
D05/2 to D05/3	375	RRJ2	74.97	1	15	27	0.14	1.03	17.987	17.238	0.03	4.94	2.94	0.02	0.01	18.06	17.371	0.92	1.26	1.581	
D05/3 to D05/4	375	RRJ2	52.06	1	25	65	0.34	1.41	17.208	16.687	0.03	1.7	1.69	0.05	0.03	17.375	16.942	0.74	1.24	1.768	
D05/4 to D05/5	375	RRJ2	16.49	1.74	15	90	0.36	1.54	16.657	16.37	0.084	0.94	0.83	0.11	0.03	16.917	16.91	0.04	1.11	1.356	
D12/1 to D05/3	375	RRJ2	9.3	2	15	14	0.05	0.95	17.705	17.519	0.11	4.5	4.5	0.06	0	17.729	17.577	1.63	1.1	1.365	
D19/1 to D05/4	375	RRJ2	10.92	2	25	18	0.07	1.02	17.006	16.788	0.218	4.5	4.5	0.07	0.01	17.034	16.942	0.84	1.1	1.377	

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

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

DATE 27/11/2025 REF 20260-7H



Plans and specifications referenced in certificate no. **17625** issued by:
Christopher Louis Wahbe
Registered Certifier Registration No: BDC 3015
Categories: Certifier - Subdivision

Land Development Certificates
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B	ISSUE FOR S/W APPROVAL	DG	NDW	KE	PM	18/03/22
A	ISSUE FOR CAA APPROVAL	DG	NDW	KE	PM	18/01/22
	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:



WINTIN PROPERTY GROUP

STATUS:

ISSUE FOR CONSTRUCTION APPROVAL

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

PROJECT No: **9985-12**

SHEET No: **CC18414**

NEWPARK PRECINCT 7, STAGE 7H
DRAINAGE CALCULATIONS
SHEET 4

PLAN No: **9985-12-CC18414**

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

B

Printed: 8 March, 2022 11:28:49 AM File Name: J:\9855\DC2 - Construction Certificate Approval Plans\FK2 - WESTERN PRECINCT\TS18 - Precinct 7\9855-12-CC18416.dwg

DESIGN STORM 5% AEP HYDRAULIC RESULTS																					
PIPE NAME (-)	PIPE DIAMETER (mm)	PIPE TYPE (-)	PIPE LENGTH (m)	PIPE GRADE (%)	CRITICAL STORM (%)	PEAK FLOW (L/s)	CAPACITY RATIO (-)	PEAK VELOCITY (m/s)	PIPE U/S I/L (m)	PIPE D/S I/L (m)	PIPE D/S DROP (m)	U/S PIT Ku (-)	D/S PIT Kw (-)	PIT LOSS (Ku*Head) (m)	WISE LOSS (Kw*Head) (m)	U/S PIPE HGL (m)	D/S PIPE HGL (m)	HGL GRADE (%)	MINIMUM COVER (m)	MINIMUM FREEBOARD (m)	COMMENTS
CA/1 to CA/2	150	UPVC	10	1.67	15	13	0.52	0.77	18.639	18.472	0.03	7.66	6.72	0.12	0.12	18.798	18.744	0.54	0.6	0.491	
CA/2 to CA/3	150	UPVC	12.66	1.58	25	27	1.07	1.52	18.442	18.242	0.795	2.98	2.83	0.09	0.16	18.682	18.382	2.37	0.6	0.471	
CA/3 to C13/1	375	RRJ2	4.46	1.88	25	43	0.17	1.12	17.446	17.363	0.192	2.24	3.06	0.09	0.02	17.852	17.852	0	1.1	1.126	
CB/1 to CB/2	150	UPVC	12.03	1.02	15	13	0.67	0.89	18.557	18.434	0.79	7.32	6.63	0.12	0.14	18.663	18.525	1.15	0.6	0.543	
CB/2 to CD/2/2	375	RRJ2	4.48	1.96	25	30	0.11	1.03	17.644	17.556	0.242	3.31	3.89	0.08	0.01	17.713	17.644	1.54	1.1	1.388	
CC/1 to CC/2	150	UPVC	10	1.02	15	16	0.82	0.92	18.967	18.864	0.03	4.06	3.9	0.11	0.12	19.338	19.25	0.88	0.6	0.29	
CC/2 to CC/3	150	UPVC	10	1	15	29	1.48	1.66	18.834	18.734	0.067	2.44	1.55	0.09	0.16	19.186	18.878	3.08	0.62	0.361	
CC/3 to CC/4	225	UPVC	10	1.02	15	43	0.73	1.29	18.667	18.565	0.03	5.64	0.51	0.04	0.02	18.851	18.828	0.28	0.6	0.649	
CC/4 to CC/5	225	UPVC	12.67	1.11	15	55	0.89	1.49	18.535	18.394	0.719	1.2	1.12	0.1	0.1	18.731	18.559	1.36	0.6	0.564	
CC/5 to CD/1/1	375	RRJ2	4.52	1.97	15	69	0.26	1.27	17.675	17.586	0.127	2.18	3.13	0.1	0.06	17.822	17.717	2.32	1.1	1.296	
CD/1 to CD/2	150	UPVC	10	1	25	11	0.54	0.64	18.674	18.574	0.03	7.78	6.06	0.09	0.09	19.165	19.139	0.26	0.6	0.221	
CD/2 to CD/3	150	UPVC	10	1	25	22	1.09	1.22	18.544	18.444	0.03	2.7	2.14	0.09	0.11	19.072	18.951	1.21	0.64	0.199	
CD/3 to CD/4	225	UPVC	12.5	1	25	35	0.6	1.17	18.414	18.289	0.03	2.14	4.47	0.08	0.03	18.951	18.916	0.28	0.6	0.296	
CD/4 to CD/5	225	UPVC	12.5	1	25	45	0.76	1.12	18.259	18.134	0.03	1.52	1.41	0.08	0.06	18.863	18.794	0.55	0.64	0.217	
CD/5 to CD/6	225	UPVC	10	1	25	57	0.98	1.44	18.104	18.004	0.03	1.01	1.01	0.08	0.08	18.722	18.629	0.93	0.68	0.223	
CD/6 to CD/7	225	UPVC	10	1	25	68	1.16	1.7	17.974	17.874	0.03	0.73	0.73	0.09	0.09	18.551	18.421	1.3	0.72	0.297	
CD/7 to CD/8	225	UPVC	10	1	25	78	1.33	1.96	17.844	17.744	0.03	0.7	0.7	0.1	0.11	18.34	18.155	1.89	0.76	0.413	
CD/8 to CD/9	300	UPVC	12.5	1	25	89	0.71	1.64	17.714	17.589	0.03	6.25	3.55	0.02	0	18.151	18.09	0.49	0.72	0.591	
CD/9 to CD/10	300	UPVC	10	1	25	101	0.8	1.47	17.559	17.459	0.03	0.84	0.8	0.07	0.07	18.029	17.965	0.64	0.73	0.527	
CD/10 to CD/11	300	UPVC	10	1	25	111	0.88	1.57	17.429	17.329	0.05	0.68	0.63	0.06	0.06	17.904	17.826	0.78	0.71	0.523	
CD/11 to CD/12	300	UPVC	1.36	1	25	121	0.97	1.72	17.279	17.266	0.06	0.61	0.61	0.07	0.07	17.755	17.745	0.88	0.75	0.507	
CD/12 to CD/13	300	UPVC	27.35	1	25	123	0.98	1.82	17.216	16.942	0.536	1.9	2.07	0.17	0.27	17.599	17.218	1.39	0.7	0.574	
CD/13 to CD/17/2	375	RRJ2	4.35	1.9	15	118	0.45	1.39	16.406	16.323	0.432	2.09	2.71	0.13	0.16	17.126	17.112	0.32	1.1	0.723	
CE/1 to CE/2	150	UPVC	18.8	1	15	14	0.7	0.85	19.278	19.09	0.03	7.52	7.03	0.11	0.16	19.356	19.246	0.59	0.6	0.57	
CE/2 to CE/3	225	UPVC	10	1	25	41	0.7	1.34	19.06	18.96	0.03	8.92	6.39	0.12	0.05	19.2	19.173	0.27	0.87	0.913	
CE/3 to CE/4	225	UPVC	11.46	1	25	45	0.77	1.27	18.93	18.815	0.362	1.82	1.27	0.08	0.08	19.094	18.965	1.14	0.92	0.906	
CE/4 to CD6/1	375	RRJ2	4.4	1.97	25	62	0.23	1.62	18.453	18.366	0.143	1.24	0.88	0.04	0.01	18.611	18.49	2.75	1.1	1.365	
CF/1 to CF/2	150	UPVC	12.5	1	5	14	0.7	0.85	19.805	19.68	0.077	7.55	5.88	0.12	0.15	20.172	20.117	0.44	0.6	0.306	
CF/2 to CF/3	225	UPVC	10	1	45	41	0.7	1.31	19.603	19.503	0.03	9.02	6.42	0.12	0.06	20.096	20.076	0.2	0.6	0.319	
CF/3 to CF/4	225	UPVC	10	1	10	40	0.68	1.15	19.473	19.373	0.03	1.47	1.28	0.08	0.06	20.039	19.998	0.41	0.63	0.26	
CF/4 to CF/5	225	UPVC	12.5	1	25	48	0.82	1.2	19.343	19.218	0.03	1.16	1.03	0.08	0.06	19.948	19.865	0.66	0.66	0.239	
CF/5 to CF/6	225	UPVC	12.5	1	25	61	1.04	1.52	19.188	19.063	0.03	0.99	0.99	0.09	0.09	19.786	19.651	1.08	0.69	0.251	
CF/6 to CF/7	225	UPVC	10	1	25	73	1.26	1.85	19.033	18.933	0.03	0.87	0.92	0.11	0.11	19.561	19.401	1.6	0.72	0.336	
CF/7 to CF/8	300	UPVC	10	1	25	84	0.67	1.65	18.903	18.803	0.03	7.37	4.09	0.03	0	19.401	19.361	0.4	0.69	0.499	
CF/8 to CF/9	300	UPVC	10	1	25	95	0.75	1.35	18.773	18.673	0.05	0.75	0.69	0.06	0.05	19.341	19.272	0.49	0.73	0.468	
CF/9 to CF/10	300	UPVC	1.36	1	25	105	0.84	1.49	18.623	18.61	0.05	0.65	0.65	0.06	0.06	19.228	19.222	0.44	0.78	0.465	
CF/10 to CF/11	300	UPVC	13.73	1	25	124	0.99	1.76	18.56	18.422	0.03	1.77	2.02	0.2	0.29	19.027	18.933	0.68	0.73	0.494	
CF/11 to CF/12	300	UPVC	13.62	1	25	136	1.08	1.94	18.392	18.256	0.629	0.55	0.55	0.1	0.1	18.881	18.777	0.76	0.62	0.515	
CF/12 to CD/7/9	375	RRJ2	4.36	1.93	25	127	0.48	1.42	17.627	17.543	0.863	2.09	2.71	0.14	0.18	18.693	18.68	0.3	1.1	0.387	
CN/1 to CN/2	150	UPVC	10	1.35	5	31	0.47	0.71	19.528	19.389	0.03	8.84	7.1	0.11	0.11	19.978	19.902	0.26	0.6	0.301	
CN/2 to CN/3	150	UPVC	10	1.16	120	22	1.02	1.26	19.359	19.243	0.077	3.24	2.76	0.1	0.12	19.836	19.717	1.19	0.6	0.232	
CN/3 to CN/4	225	UPVC	12.5	1	15	33	0.57	1.1	19.166	19.041	0.03	3.06	4.46	0.08	0.03	19.717	19.682	0.28	0.6	0.286	
CN/4 to CN/5	225	UPVC	10	1	25	44	0.75	1.09	19.011	18.911	0.03	1.5	1.43	0.07	0.07	19.632	19.578	0.54	0.63	0.189	
CN/5 to CN/6	225	UPVC	10	1	25	54	0.92	1.35	18.881	18.781	0.03	1.08	0.94	0.07	0.07	19.521	19.439	0.82	0.66	0.193	
CN/6 to CN/7	225	UPVC	10	1	25	64	1.09	1.6	18.751	18.651	0.03	0.82	0.82	0.08	0.08	19.368	19.25	1.18	0.69	0.221	
CN/7 to CN/8	225	UPVC	12.5	1	25	74	1.26	1.86	18.621	18.496	0.03	0.79	0.81	0.1	0.1	19.18	18.966	1.71	0.71	0.318	
CN/8 to CN/9	300	UPVC	10	1	15	88	0.7	1.69	18.466	18.366	0.03	7.3	0.7	0.04	0	18.966	18.919	0.47	0.67	0.481	
CN/9 to CN/10	300	UPVC	10	1	25	97	0.77	1.47	18.336	18.236	0.03	0.66	0.66	0.06	0.05	18.87	18.813	0.57	0.7	0.428	
CN/10 to CN/11	300	UPVC	10	1	25	107	0.85	1.52	18.206	18.106	0.03	0.64	0.65	0.06	0.06	18.764	18.698	0.66	0.73	0.432	
CN/11 to CN/12	300	UPVC	12.5	1	25	118	0.94	1.67	18.076	17.951	0.03	0.64	0.58	0.07	0.07	18.644	18.549	0.76	0.76	0.407	
CN/12 to CN/13	300	UPVC	10	1	25	131	1.04	1.85	17.921	17.821	0.03	0.61	0.61	0.09	0.09	18.483	18.394	0.89	0.78	0.464	
CN/13 to CN/14	300	UPVC	10	1	25	142	1.13	2.01	17.791	17.691	0.03	0.51	0.51	0.09	0.09	18.333	18.233	1	0.9	0.598	
CN/14 to CN/15	300	UPVC	10	1	25	153	1.22	2.18	17.661	17.561	0.05	0.49	0.51	0.11	0.11	18.167	18.061	1.06	1.03	0.762	
CN/15 to CN/16	375	RRJ2	1.36	1	25	173	0.75	1.94	17.511	17.408	0.05	9.21	0.4	0.02	0	18.061	18.057	0.29	1.11	0.941	
CN/16 to CN/17	375	RRJ2	27.35	1	25	163	0.72	1.65	17.448	17.174	0.429	1.93	2.36	0.21	0.25	17.911	17.834	0.35	0.74	0.939	
CN/17 to CD8/6	375	RRJ2	4.36	1.85	20	149	0.58	1.6	16.745	16.664	0.811	1.91	2.32	0.17	0.21	17.693	17.671	0.5	1.1	0.471	
CV/1 to CV/2	150	UPVC	10	1	25	16	0.79	0.89	20.042	19.942	0.03	3.79	3.79	0.1	0.11	20.395	20.323	0.72	0.6	0.307	
CV/2 to CV/3	150	UPVC	10	1	25	29	1.44	1.63	19.912	19.812	0.03	2.33	1.57	0.09	0.15	20.259	19.975	2.84	0.66	0.401	
CV/3 to CV/4	225	UPVC	10	1	25	42	0.71	1.22	19.792	19.692	0.03	5.57	0.57	0.06	0.07	19.975	19.94	0.35	0.64	0.674	
CV/4 to CV/5	225	UPVC	12.35	1	15	93	0.92	1.45	19.652	19.529	0.582	1.7	1.12	0.09	0.09						

DESIGN STORM 1% AEP HYDROLOGIC RESULTS

PIT NAME (I)	PIT TYPE	CATCHMENT AREA (ha)	PERCENT IMPERVIOUS	Tc IMP (min)	Tc PERV (min)	CRITICAL STORM (L)	APPROACH FLOW (L/s)	CAPTURED FLOW (L/s)	UNCAPTURED FLOW (L/s)	GRATE DEPTH (mm)	ROAD GRADE (%)	ROAD CROSSFALL (%)	BYPASS PIT (I)	FLOW AT BYPASS PIT (L/s)	FLOW WIDTH AT BYPASS PIT (m)	Vd AT BYPASS PIT (m/s ²)	COMMENTS (I)
C01/24	1.8 m lintel	0.1	85	5	5	15	59	41	18	89	0.7	3	C05/8	45	2.43	0.05	
C01/25	1.8 m lintel	0.055	85	5	5	15	30	23	7	99	0.6	3	C01/24	59	2.47	0.06	
C01/26	1.8 m lintel	0.076	85	5	5	15	40	30	11	109	0.5	3	C01/27	83	2.97	0.07	
C01/27	2.4 m lintel	0.138	85	5	5	15	83	55	28	114	0.7	3	C02/17	70	4.13	0.05	
C01/28	1.8 m lintel	0.028	100	5	5	10	17	14	3	138	0.6	3	C26/1	3	0.44	0.01	SPLITTER PIT
C01/29	NODE	0	0	0	0	10	0	0	0	0	0	0					GPT INLET
C01/30	GPT	0	0	0	0	15	0	0	0	60	0	2.5	C01/28	14	3.75	0.03	GPT OUTLET
C01/31	NODE	0	0	0	0	10	0	0	0	0	0	0					
C02/1	1.8 m lintel	0.037	95	5	5	15	20	16	4	103	1.1	3	C02/4	84	2.6	0.08	
C02/2	1.8 m lintel	0.034	95	5	5	15	18	15	4	95	1.1	3	C02/3	65	2.45	0.07	
C02/3	2.4 m lintel	0.116	85	5	5	15	65	47	17	99	1.1	3	C74/1	73	2.6	0.07	
C02/4	2.4 m lintel	0.152	85	5	5	15	84	58	26	103	1.1	3	C02/5	84	2.6	0.08	
C02/5	2.4 m lintel	0.115	85	5	5	15	84	54	30	98	1.1	3	C02/6	71	2.43	0.08	
C02/6	1.8 m lintel	0.08	85	5	5	15	71	43	28	95	1.1	3	C02/7	64	2.38	0.07	
C02/7	1.8 m lintel	0.07	85	5	5	15	64	43	21	87	1.1	3	C02/8	43	2.41	0.05	
C02/8	2.4 m lintel sag	0.066	85	5	5	15	54	54	0	97	0.6	2.2	C02/9	0	2.42	0.01	
C02/9	2.4 m lintel sag	0.149	85	5	5	10	82	69	9	98	0.1	3	C38/1	11	0	0	
C02/10	1.8 m lintel	0.005	95	5	5	15	3	1	1	88	0.7	3	C02/9	36	2.42	0.04	
C02/11	1.8 m lintel	0.005	95	5	5	15	1	1	0	94	0.7	3	C02/12	57	2.22	0.05	
C02/12	1.8 m lintel	0.107	85	5	5	15	46	34	13	83	0.7	3.7	C62/1	29	3.15	0.03	
C02/13	1.8 m lintel	0.11	85	5	5	15	58	37	20	82	0.7	3	C06/7	43	3.59	0.04	
C02/14	1.8 m lintel	0	0	0	0	10	0	0	0	0	0.7	3	XP83/1	0	0	0	
C02/15	1.8 m lintel	0.003	95	5	5	15	1	0	0	90	0.7	3.2	C02/16	49	2.88	0.03	
C02/16	1.8 m lintel	0.093	85	5	5	15	40	28	12	111	0.7	3	C02/17	72	4.13	0.05	
C02/17	2.4 m lintel sag	0.201	85	5	5	15	142	138	0	149	0	3	C47/1	0	0	0	
C05/1	1.8 m lintel	0.016	95	5	5	15	8	7	2	49	0.7	3	C05/2	12	1.91	0.02	
C05/2	1.8 m lintel	0.019	95	5	5	15	12	9	2	83	2.1	3	C05/3	53	1.91	0.07	
C05/3	1.8 m lintel	0.036	95	5	5	15	19	15	4	81	1.4	3	C05/4	42	2.39	0.04	
C05/4	2.4 m lintel	0.139	85	5	5	15	74	49	25	90	1.4	3	C05/5	61	2.45	0.06	
C05/5	2.4 m lintel	0.071	85	5	5	15	61	43	18	99	1.4	3	C05/6	83	2.46	0.09	
C05/6	2.4 m lintel	0.124	85	5	5	15	83	53	29	99	1.4	3	C05/7	84	2.53	0.08	
C05/7	2.4 m lintel	0.107	85	5	5	15	84	54	30	101	1.4	3	C05/8	89	2.53	0.09	
C05/8	2.4 m lintel	0.115	85	5	5	15	89	56	33	94	1.4	3	C05/9	94	3.59	0.05	
C05/9	2.4 m lintel sag	0.132	85	5	5	15	111	111	0	133	0.7	2.7	C62/1	0	0	0	
C07/1	2.4 m lintel sag	0.029	95	5	5	15	16	16	0	55	0.4	2.6	C07/4	0	0	0	
C07/2	2.4 m lintel sag	0.111	85	5	5	15	60	60	0	98	0.7	3	C07/3	2	1.92	0	
C07/3	2.4 m lintel sag	0.12	85	5	5	10	53	52	0	83	0.7	2.9	C07/4	0	0	0	
C07/4	2.4 m lintel sag	0.033	95	5	5	15	5	5	0	77	0.7	3.7	C07/5	5	1.57	0	
C07/5	1.8 m lintel	0.005	95	5	5	15	1	0	0	73	1.3	3	C07/6	28	2.34	0.03	
C07/6	1.8 m lintel	0.054	85	5	5	15	28	22	6	95	1.3	3	C07/7	72	2.54	0.07	
C07/7	2.4 m lintel	0.125	85	5	5	15	72	48	24	101	1.3	3	C07/8	88	2.56	0.09	
C07/8	2.4 m lintel	0.124	85	5	5	15	88	56	32	102	1.3	3	C07/9	90	3.5	0.09	
C07/9	1.8 m lintel	0.106	85	5	5	15	90	45	182	130	1.3	3	C07/10	106	3.62	0.1	
C07/10	2.4 m lintel sag	0.076	85	5	5	15	209	140	53	189	0.9	2.5	C07/11	104	0	0	
C07/11	2.4 m lintel sag	0.059	95	5	5	10	126	112	0	131	0.6	3	C07/12	0	2.54	0	
C07/12	1.8 m lintel	0.005	95	5	5	15	1	1	0	99	1.5	3	C07/13	73	2.46	0.07	
C07/13	2.4 m lintel	0.139	85	5	5	15	70	49	21	77	0.7	3	C08/7	44	5.67	0.04	
C08/1	2.4 m lintel	0.113	85	5	5	15	60	51	18	108	0.7	3	C66/1	80	2.95	0.07	
C08/2	2.4 m lintel	0.12	85	5	5	15	64	45	19	105	0.7	3	C08/3	74	2.9	0.06	
C08/3	1.8 m lintel	0.107	85	5	5	15	74	45	29	112	0.7	3	C08/4	91	3.61	0.08	
C08/4	2.4 m lintel	0.115	85	5	5	15	91	58	30	133	0.7	3	C08/5	158	3.72	0.1	
C08/5	2.4 m lintel	0.116	85	5	5	15	158	59	31	136	0.7	3	C08/6	170	4.92	0.11	
C08/6	1.8 m lintel	0.071	85	5	5	15	170	46	209	152	0.7	3	C08/7	228	5.67	0.09	
C08/7	2.4 m lintel sag	0.084	85	5	5	15	252	205	40	191	0.6	2.8	C08/8	47	0	0	
C08/8	2.4 m lintel sag	0.109	85	5	5	15	138	131	0	145	0.4	2.1	C08/9	0	2.56	0.01	
C08/9	1.8 m lintel	0.001	95	5	5	15	2	0	0	102	0.7	3.7	C08/10	64	3.7	0.06	
C08/10	2.4 m lintel sag	0.115	85	5	5	15	59	59	0	89	0.4	2.1	C02/15	0	3.16	0.01	
C11/5	1.8 m lintel	0.015	95	5	5	15	10	8	2	47	0.2	4.7	C11/6	8	1.11	0.02	
C11/6	1.8 m lintel	0.012	95	5	5	15	8	7	2	56	2	3	C07/10	27	5.67	0.04	
C12/1	2.4 m lintel	0.145	85	5	5	15	77	52	25	110	0.8	3	C12/2	88	2.81	0.08	
C12/2	2.4 m lintel	0.124	85	5	5	15	88	58	30	108	0.8	3	C12/3	84	2.75	0.08	
C12/3	2.4 m lintel	0.107	85	5	5	15	84	50	34	102	0.8	3	C12/4	93	2.56	0.09	
C12/4	2.4 m lintel	0.115	85	5	5	15	93	57	36	88	2.1	3	C12/5	75	2.85	0.07	
C12/5	2.4 m lintel sag	0.103	85	5	5	10	85	85	0	111	0.5	3.1	C02/11	0	2.28	0.01	
C13/1	1.8 m lintel	0.037	95	5	5	15	20	16	4	101	0.7	3	C13/2	64	2.63	0.06	
C13/2	2.4 m lintel	0.117	85	5	5	15	64	48	16	104	0.7	3	C13/3	71	2.96	0.06	
C13/3	1.8 m lintel	0.106	85	5	5	15	71	44	27	111	0.7	3	C13/4	87	2.86	0.08	
C13/4	2.4 m lintel	0.116	85	5	5	15	87	67	26	111	0.7	3	C13/5	86	3.34	0.07	
C13/5	2.4 m lintel sag	0.109	85	5	5	15	86	86	0	125	0.4	3.3	C42/1	0	0	0	
C13/6	1.8 m lintel	0	0	0	0	10	0	0	0	0	0.7	3					
C13/7	1.8 m lintel	0.107	85	5	5	15	57	37	20	97	0.7	3	C02/9	47	3.47	0.05	
C20/1	2.4 m lintel	0.122	85	5	5	15	85	59	26	82	2	3	C20/2	50	2.49	0.05	
C20/2	1.8 m lintel	0.045	85	5	5	15	50	35	15	100	1.6	3	C54/1	75	2.8	0.07	
C22/1	1.8 m lintel	0.115	85	5	5	15	81	53	29	117	0.7	3	C42/1	92	3.23	0.08	
C36/1	1.8 m lintel	0.075	85	5	5	15	91	49	30	117	0.7	3	C06/8	86	4.01	0.07	
C38/1	2.4 m lintel sag	0.065	100	5	5	10	33	26	0	55	0.1	3	LOST	0	0	0	
C39/1	2.4 m lintel sag	0.062	100	5	5	10	29	27	0	57	0.1	3	LOST	0	0	0	
C42/1	2.4 m lintel sag	0.159	85	5	5	10	92	90	0	122	0.3	2	LOST	0	0	0	
C43/1	2.4 m lintel	0.115	85	5	5	15	82	59	23	109	0.7	3	C72/1	81	3.05	0.07	
C46/1	2.4 m lintel	0.141	85	5	5	15	74	51	23	109	0.7	3	C43/1	82	2.79	0.07	
C47/1	2.4 m lintel sag	0.047	100	5	5	10	20	20	0	48	0	3	LOST	0	0	0	
C53/1	1.8 m lintel	0.045	95	5	5	15	24	19	5	75	1.3	3	C64/1	32	1.67	0.05	
C54/1	2.4 m lintel	0.116	85	5	5	15	75	51	24	109	0.7	3	C56/1	82	3.13	0.06	
C56/1	2.4 m lintel	0.115	85	5	5	15	82	55	27	119	0.7	3	C77/1	108	3.68	0.08	
C57/1	2.4 m lintel	0.107	85	5	5	15	82	53	29	101	1.4	3	C61/1	88	3.52	0.09	

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

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

DATE 27/11/2025 REF 20260-7H

LDC Plans and specifications referenced in certificate no. **17625** issued by Christopher Louis Wahbe

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DESIGN STORM 1% AEP HYDROLOGIC RESULTS																	
PIT NAME (-)	PIT TYPE (-)	CATCHMENT AREA (Ha)	PERCENT IMPERVIOUS (%)	Tc IMP (min)	Tc PERV (min)	CRITICAL STORM (min)	APPROACH FLOW (L/s)	CAPTURED FLOW (L/s)	UNCAPTURED FLOW (L/s)	GRATE DEPTH (mm)	ROAD GRADE (%)	ROAD CROSSFALL (%)	BYPASS PIT (-)	FLOW AT BYPASS PIT (L/s)	FLOW WIDTH AT BYPASS PIT (m)	VdD AT BYPASS PIT (m/s ²)	COMMENTS (-)
C61/1	2.4 m lintel	0.115	85	5	5	15	88	56	32	92	1.4	3	C62/1	67	3.15	0.06	
C62/1	2.4 m lintel sag	0.119	85	5	5	15	96	96	0	120	0.7	3.6	C39/1	0			
C63/1	1.8 m lintel	0.073	95	5	5	15	38	27	11	87	0.8	3	C78/1	56	2.26	0.07	
C64/1	1.8 m lintel	0.052	95	5	5	15	32	24	7	76	1.3	3	C07/11	32	3.53	0.05	
C66/1	1.8 m lintel	0.12	85	5	5	15	80	52	28	114	0.7	3	C67/1	94	3.04	0.08	
C67/1	2.4 m lintel	0.129	85	5	5	15	94	66	29	116	0.7	3	C68/1	102	3.04	0.08	
C68/1	2.4 m lintel	0.128	85	5	5	15	102	62	35	112	0.7	3	C36/1	91	3.05	0.08	
C69/1	1.8 m lintel	0.072	85	5	5	15	42	29	13	97	1.4	3	C70/1	78	2.44	0.08	
C70/1	2.4 m lintel	0.124	85	5	5	15	78	51	27	99	1.4	3	C57/1	82	2.52	0.08	
C71/1	1.8 m lintel	0.113	85	5	5	15	84	52	32	107	1.1	3	C72/1	95	4	0.07	
C72/1	2.4 m lintel sag	0.122	85	5	5	15	95	95	0	145	0.6	2.9	C02/8	3			
C74/1	1.8 m lintel	0.109	85	5	5	15	73	47	26	103	1.1	3	C73/1	84	2.73	0.08	
C77/1	2.4 m lintel sag	0.158	85	5	5	15	108	108	0	135	0.3	2.8	C08/10	0			
C78/1	2.4 m lintel sag	0.091	95	5	5	15	56	56	0	93	1.3	3.2	C12/5	2			
D01/3	1.8 m lintel	0.003	95	5	5	5	0	0	0	53	0.7	3	D01/4	10	2.12	0.01	
D01/4	1.8 m lintel	0.02	95	5	5	5	10	8	2	89	1.4	3	D01/5	60	2.38	0.06	
D04/1	1.8 m lintel	0.033	95	5	5	5	18	14	4	127	0.7	3	LOST	0	0		
D04/2	1.8 m lintel	0.033	95	5	5	5	17	14	3	55	0.7	3	D04/3	15	1.25	0.03	
D04/3	1.8 m lintel	0.022	95	5	5	5	15	12	3	63	0.7	3	D04/4	13	2.28	0.01	
D05/1	1.8 m lintel	0.036	95	5	5	5	19	15	4	37	0.7	3	LOST	4	0.43	0.02	
D05/2	1.8 m lintel	0.038	95	5	5	5	20	16	4	84	0.7	3	D05/3	34	1.93	0.05	
D05/3	1.8 m lintel	0.06	95	5	5	5	34	25	9	71	0.7	3	D05/4	28	1.5	0.05	
D05/4	1.8 m lintel	0.04	95	5	5	5	28	22	6	53	3.1	3	D05/5	13	0.91	0.04	
D12/1	1.8 m lintel	0.038	95	5	5	5	20	16	4	38	0.7	3	LOST	4	0.44	0.02	
D29/1	1.8 m lintel	0.048	85	5	5	5	26	20	6	79	2.8	3	D10/1	54	2.6	0.06	

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

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

 DATE 27/11/2025 REF 20260-7H

Plans and specifications referenced in certificate no. **17625** issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision

 Land Development Certificates
www.LDC.com.au

B	ISSUE FOR SWC APPROVAL	DG	NDW	KE	PM	18/03/22			
A	ISSUE FOR CAA APPROVAL	DG	NDW	KE	PM	18/01/22			
	AMENDMENT	DES	DRN	CKD	APR	DATE			

J. WYNDHAM PRINCE

CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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CLIENT:

WINTIN
PROPERTY
GROUP

STATUS:

ISSUE FOR
CONSTRUCTION
APPROVAL

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

PROJECT No:

9985-12

SHEET No:

CC18418

PLAN No:

9985-12-CC18418

AZIMUTH: G.A.94

DATUM: A.H.D.

ORIGIN: SSM 1112

DATE: 27/11/2025

REF: 20260-7H

B

DESIGN STORM 1% AEP HYDRAULIC RESULTS																											
PIPE NAME	PIPE DIAMETER [mm]	PIPE TYPE	PIPE LENGTH [m]	PIPE GRADE [%]	CRITICAL STORM	PEAK FLOW [L/s]	CAPACITY RATIO	PEAK VELOCITY [m/s]	PIPE U/S/L [m]	PIPE D/S/L [m]	PIPE D/S DROP [m]	U/S PIT [m]	D/S PIT [m]	PIT LOSS [Kw Head]	WSE LOSS [Kw Head]	U/S PIPE HGL [m]	D/S PIPE HGL [m]	HGL GRADE [%]	MINIMUM COVER [m]	MINIMUM FREEBOARD [m]	COMMENTS						
C01/24 to C01/25	1350	RR12	35.73	0.3	25	3795	1.2	2.65	13.608	13.501	0.05	2.06	2.53	0.32	0.4	16.188	16.033	0.43	2.76	1.46							
C01/26 to C01/27	1500	RR12	33.39	0.3	25	3808	0.91	2.16	13.451	13.35	0.05	5.24	0.06	0.03	0	16.033	15.952	0.24	3.01	2.009							
C01/28 to C01/29	1500	RR12	41.67	0.3	25	3826	0.91	2.16	13.3	13.175	0.05	4.16	0.24	0.06	0.06	15.925	15.791	0.32	3.16	2.109							
C01/27 to C01/28	1500	RR12	9.57	0.4	25	3864	0.8	2.19	13.125	13.087	0.05	1.34	1.41	0.32	0.34	15.549	15.447	0.57	3.11	1.975							
C01/28 to C01/29	1050	RR12	10.59	0.35	20	2204	1.26	2.55	13.037	13	0	1.5	1.5	0.5	0.5	14.893	14.893	0.56	3.67	2.3							
C01/29 to C01/30	GPT	INLET	3.72	0	10	1689	3.57	1.42	13	13	0	1.5	1.5	0.15	0.15	14.874	14.873	0.03	3.41	2.898							
C01/30 to C01/31	GPT	OUTLET	4.04	0	10	1462	3.22	1.61	13	13	0	5.6	5.6	0.43	0.43	14.802	14.801	0.02	3.4	3.013							
C02/1 to C02/2	375	RR12	9.43	1	15	99	0.52	1.7	17.359	17.365	0.05	0.87	0.79	0.06	0.03	18.25	18.239	0.12	1.1	0.649							
C02/2 to C02/3	375	RR12	34.35	1	20	146	0.76	1.37	17.315	16.971	0.05	1.74	1.98	0.17	0.17	18.178	18.087	0.26	1.14	0.643							
C02/3 to C02/4	450	RR12	11.61	1	20	187	0.61	1.48	16.921	16.805	0.051	1.36	1.48	0.11	0.11	18.051	18.03	0.18	1.15	0.428							
C02/4 to C02/5	525	RR12	32.16	1	20	230	0.49	1.47	16.755	16.433	0.03	1.45	1.53	0.2	0.08	17.995	17.949	0.14	1.1	0.407							
C02/5 to C02/6	525	RR12	23.12	1	10	287	0.62	1.6	16.403	16.172	0.03	0.87	1.08	0.13	0.08	17.91	17.845	0.28	1.11	0.145							
C02/6 to C02/7	525	RR12	18.63	1	10	355	0.76	1.77	16.142	15.955	0.064	0.66	0.7	0.1	0.09	17.796	17.712	0.45	1.13	-0.083							
C02/7 to C02/8	600	RR12	16.21	1	10	523	0.79	1.85	15.891	15.729	0.05	0.59	0.64	0.09	0.09	17.658	17.582	0.47	1.1	-0.08							
C02/8 to C02/9	600	RR12	15.73	1	10	692	1.04	2.5	15.679	15.522	0.347	0.88	0.88	0.26	0.26	17.442	17.336	0.67	1.37	-0.088							
C02/9 to C02/10	825	RR12	39.63	0.6	10	1118	0.93	2.17	15.174	14.936	0.03	0.55	0.55	0.14	0.12	17.251	17.092	0.4	1.65	0.364							
C02/10 to C02/11	825	RR12	31.02	0.6	10	1040	0.86	2.12	14.906	14.72	0.03	0.21	0.21	0.06	0.04	17.056	16.931	0.4	2.14	0.824							
C02/11 to C02/12	900	RR12	42.35	0.6	20	1251	0.85	2.15	14.69	14.436	0.03	2.06	2.54	0.21	0.26	16.833	16.672	0.43	2.26	1.012							
C02/12 to C02/13	900	RR12	29.17	0.6	20	1337	0.88	2.11	14.406	14.231	0.03	1.35	0.31	0.08	0.06	16.616	16.482	0.46	2.3	1.003							
C02/13 to C02/14	1050	RR12	40.89	0.6	20	1933	0.84	2.4	14.201	13.956	0.03	2.07	2.57	0.26	0.33	16.342	16.168	0.43	2.51	1.351							
C02/14 to C02/15	1050	RR12	30.56	0.6	20	1933	0.84	2.42	13.926	13.742	0.03	0.2	0.2	0.08	0.05	16.117	15.987	0.43	3.06	1.945							
C02/15 to C02/16	1350	RR12	45.4	0.6	20	3295	0.74	2.74	13.712	13.44	0.03	0.17	0.15	0.08	0.04	15.946	15.798	0.33	2.94	2.097							
C02/16 to C02/17	1350	RR12	25.01	0.6	20	3315	0.74	2.74	13.417	13.246	0.03	0.16	0.26	0.27	0.06	15.728	15.656	0.23	2.97	2.016							
C02/17 to C02/18	1350	RR12	17.48	0.6	20	3431	0.77	2.4	13.21	13.105	0.068	0.5	0.5	0.14	0.14	15.528	15.463	0.35	3.11	2.044							
C05/1 to C05/2	375	RR12	14.96	3.47	15	7	0.02	1.08	19.432	18.913	0.21	4.5	4.5	0.02	0	19.456	18.949	3.39	1.1	1.305							
C06/1 to C06/2	375	RR12	12.03	1	15	81	0.43	1.11	18.223	18.102	0.053	1.11	1.05	0.08	0.03	18.439	18.444	-0.04	1.1	1.215							
C06/2 to C06/3	375	RR12	20	1.16	20	126	0.61	1.34	18.05	17.818	0.048	2.09	2.06	0.16	0.13	18.35	18.288	0.31	1.1	1.137							
C06/3 to C06/4	375	RR12	35	1.23	20	189	0.8	1.49	17.727	17.544	0.14	1.95	1.98	0.14	0.14	18.178	18.078	0.24	1.1	1.019							
C06/4 to C06/5	450	RR12	30.31	1.23	20	278	0.81	2	17.215	16.842	0.116	0.95	0.95	0.17	0.15	17.816	17.621	0.64	1.1	0.91							
C06/5 to C06/6	525	RR12	32.2	1.24	10	340	0.65	2.02	16.726	16.327	0.051	0.85	0.85	0.17	0.09	17.544	17.381	0.51	1.1	0.591							
C06/6 to C06/7	525	RR12	28.17	1.19	15	429	0.84	1.98	16.276	15.942	0.05	0.77	0.65	0.16	0.12	17.283	17.057	0.8	1.1	0.591							
C06/7 to C06/8	525	RR12	15.31	1	15	626	1.34	2.91	15.832	15.739	1.338	1.07	1	0.34	0.42	16.751	16.482	1.76	1.33	0.55							
C07/1 to C07/2	375	RR12	9	2	15	24	0.9	1.09	18.919	18.909	0.124	1.1	1.08	0.4	0.5	20.116	20.011	0.11	0.459								
C07/2 to C07/3	375	RR12	40.33	1	10	92	0.49	1.06	18.919	18.516	0.05	7	7	0.22	0.17	20.106	20.08	0.06	1.26	0.658							
C07/3 to C07/4	375	RR12	9.03	2	10	123	0.46	1.44	18.466	18.285	0.05	2.19	2.59	0.17	0.16	20.056	20.032	0.16	1.64	0.363							
C07/4 to C07/5	375	RR12	14.99	1	10	129	0.68	1.51	18.235	18.085	0.05	0.76	0.76	0.09	0.05	20.014	19.987	0.18	1.98	0.409							
C07/5 to C07/6	375	RR12	23.78	1	15	145	0.75	1.38	18.035	17.798	0.03	0.99	0.55	0.09	0.05	19.972	19.929	0.48	1.97	0.489							
C07/6 to C07/7	375	RR12	35.71	1	15	172	0.9	1.61	17.768	17.411	0.03	1.65	2.55	0.16	0.17	19.833	19.67	0.51	1.9	0.377							
C07/7 to C07/8	375	RR12	34.99	1	25	204	1.08	1.85	17.381	17.031	0.03	1.37	1.24	0.13	0.1	19.605	19.348	0.73	1.83	0.031							
C07/8 to C07/9	375	RR12	29.08	1	15	273	1.44	2.48	17.001	16.71	0.03	1.77	1.14	0.14	0.13	19.247	18.996	0.86	1.76	-0.102							
C07/9 to C07/10	450	RR12	18.95	1	20	329	1.07	2.07	16.68	16.449	0.05	1.53	1.78	0.27	0.31	18.889	18.817	0.38	1.66	-0.13							
C07/10 to C07/11	450	RR12	9.48	1	20	377	1.22	2.37	16.345	16.05	0.03	1.5	1.5	0.25	0.28	18.537	18.457	0.22	1.76	-0.189							
C07/11 to C07/12	525	RR12	14.85	1	15	458	0.98	2.12	16.295	16.147	0.05	0.3	0.07	0.07	0.07	18.406	18.297	0.73	1.92	0.143							
C07/12 to C07/13	600	RR12	36.56	1	20	614	0.92	2.17	16.097	15.731	0.03	1.32	2.02	0.3	0.32	18.056	17.784	0.74	1.98	0.375							
C07/13 to C08/9	600	RR12	34.63	1	20	680	1.02	2.41	15.701	15.355	0.189	0.54	0.54	0.15	0.1	17.702	17.391	0.9	1.97	0.538							
C08/1 to C08/2	375	RR12	10.61	2	10	46	0.17	1	17.38	17.187	0.05	4.5	4.5	0.16	0.04	18.811	18.811	0	1.1	-0.102							
C08/2 to C08/3	375	RR12	30.26	1	10	88	0.46	1.08	17.117	16.815	0.03	5.29	2.42	0.17	0.08	18.773	18.691	0.27	2.25	-0.101							
C08/3 to C08/4	375	RR12	32.25	1	10	142	0.75	1.45	16.785	16.462	0.03	1.42	1.3	0.14	0.09	18.636	18.486	0.47	1.38	-0.117							
C08/4 to C08/5	375	RR12	32.72	1	10	220	1.16	1.99	16.432	16.105	0.03	1.22	1.31	0.14	0.13	18.405	18.26	0.44	1.5	-0.133							
C08/5 to C08/6	450	RR12	19.18	1	10	302	0.98	1.95	16.075	15.883	0.03	1.33	1.07	0.11	0.09	18.188	18.142	0.24	1.55	-0.136							
C08/6 to C08/7	525	RR12	20.55	1	60	435	0.93	2.01	15.853	15.668	0.05	1.58	1.75	0.25	0.28	18.047	17.996	0.25	1.56	-0.152							
C08/7 to C08/8	600	RR12	9.02	2	10	507	0.54	1.79	15.598	15.417	0.05	1.62	2.52	0.26	0.29	17.725	17.734	0.45	1.69	-0.101							
C08/8 to C08/9	600	RR12	15.15	1	20	583	0.88	2.06	15.367	15.216	0.05	1.06	1.07	0													

DESIGN STORM 1% AEP HYDRAULIC RESULTS																						
PIPE NAME (i)	PIPE DIAMETER (mm)	PIPE TYPE	PIPE LENGTH (m)	PIPE GRADE (%)	CRITICAL STORM (min)	PEAK FLOW (L/s)	CAPACITY RATIO	PEAK VELOCITY (m/s)	PIPE U/S IL (m)	PIPE D/S IL (m)	PIPE D/S DROP (m)	U/S PIT (m)	D/S PIT (m)	PIT LOSS (Kw.Vhead)	WSE LOSS (Kw.Vhead)	U/S PIPE HGL (m)	D/S PIPE HGL (m)	HGL GRADE (%)	MINIMUM COVER (m)	MINIMUM FREEBOARD (m)	COMMENTS	
C62/1 to C06/7	375	RR12	9.17	2	15	90	0.34	0.82	16.158	15.975	0.081	4.5	4.5	0.15	0.15	17.069	17.057	0.13	1.1	0.397		
C63/1 to C12/2	375	RR12	11.07	1	20	26	0.13	0.76	17.711	17.6	0.111	4.5	4.5	0.09	0.01	18.304	18.302	0.02	1.1	0.859		
C64/1 to C07/8	375	RR12	10.72	2	10	33	0.12	1	17.86	17.646	0.645	4.5	4.5	0.12	0.02	19.388	19.348	0.37	1.1	-0.075		
C66/1 to C08/3	375	RR12	10.6	2	25	55	0.2	1.14	17.161	16.949	0.164	4.5	4.5	0.16	0.06	18.699	18.691	0.08	1.1	-0.112		
C67/1 to C08/4	375	RR12	10.64	2	45	49	0.18	1.17	16.942	16.729	0.297	4.5	4.5	0.17	0.05	18.482	18.486	-0.04	1.1	-0.116		
C68/1 to C08/5	375	RR12	10.98	2	10	54	0.2	1.17	16.716	16.496	0.421	4.5	4.5	0.16	0.06	18.261	18.26	0.01	1.1	-0.112		
C69/1 to C06/3	375	RR12	10.92	1	15	28	0.15	0.66	17.929	17.82	0.05	4.5	4.5	0.09	0.01	18.29	18.288	0.02	1.1	1.091		
C70/1 to C06/4	375	RR12	10.7	1.5	20	49	0.21	0.88	17.451	17.29	0.075	4.5	4.5	0.14	0.04	17.923	17.918	0.05	1.1	0.953		
C71/1 to C02/5	375	RR12	9	2	10	43	0.16	0.96	16.402	16.222	0.08	4.5	4.5	0.14	0.04	17.849	17.845	0.04	1.1	-0.097		
C72/1 to C07/8	375	RR12	9.18	2	25	102	0.38	1.07	16.06	15.876	0.197	4.5	4.5	0.19	0.19	17.587	17.582	0.05	1.1	-0.145		
C74/1 to C02/5	375	RR12	11.55	2	10	40	0.15	0.97	16.708	16.477	0.074	4.5	4.5	0.16	0.03	17.953	17.949	0.03	1.1	0.197		
C77/1 to C08/10	375	RR12	9.08	2	15	117	0.43	1.35	16.401	16.219	1.47	4.5	4.5	0.26	0.26	16.564	16.531	0.36	1.1	1.02		
C78/1 to C12/5	375	RR12	9.28	1.25	10	64	0.3	0.7	16.379	16.263	0.057	4.5	4.5	0.1	0.08	17.62	17.612	0.09	1.1	0.143		
D01/2 to D01/3	375	RR12	29.19	1	25	67	0.35	1.3	18.563	18.271	0.05	4.2	3.05	0.14	0.05	18.863	18.854	0.03	1.26	1.205		
D01/3 to D01/4	375	RR12	16.38	1	15	70	0.37	1.35	18.221	18.057	0.05	0.74	0.75	0.09	0.01	18.85	18.842	0.05	1.71	1.422		
D01/4 to D01/5	375	RR12	25.9	1	15	76	0.4	1.17	18.007	17.748	0.05	1.12	1.06	0.09	0.02	18.837	18.823	0.05	1.47	1.143		
D04/1 to D04/2	375	RR12	9.25	2	5	14	0.05	0.92	18.726	18.541	0.05	4.5	4.5	0.06	0	18.748	18.773	-0.27	1.1	1.363		
D04/2 to D04/3	375	RR12	15.34	1	25	30	0.16	1.01	18.491	18.338	0.132	4.73	2.89	0.1	0.01	18.769	18.768	0.01	1.15	1.414		
D04/3 to D04/4	375	RR12	24.3	1	15	43	0.23	1.08	18.206	17.963	0.05	2.04	1.65	0.1	0.01	18.765	18.759	0.02	1.1	0.951		
D05/1 to D05/2	375	RR12	9	2	15	15	0.06	0.95	18.217	18.037	0.05	4.5	4.5	0.07	0	18.241	18.097	1.6	1.1	1.357		
D05/2 to D05/3	375	RR12	74.97	1	25	31	0.16	1.04	17.987	17.238	0.03	3.4	3.01	0.06	0.01	18.066	17.705	0.48	1.26	1.572		
D05/3 to D05/4	375	RR12	52.06	1	20	77	0.4	1.42	17.208	16.687	0.03	2.67	1.82	0.11	0.04	17.691	17.665	0.05	1.24	1.434		
D05/4 to D05/5	375	RR12	16.49	1.74	15	100	0.4	1.43	16.657	16.37	0.084	1.28	1.21	0.13	0.04	17.652	17.633	0.12	1.11	0.632		
D12/1 to D05/3	375	RR12	9.3	2	15	16	0.06	0.97	17.705	17.519	0.311	4.5	4.5	0.07	0.01	17.73	17.705	0.27	1.1	1.358		
D29/1 to D05/4	375	RR12	10.92	2	15	22	0.08	1.04	17.006	16.788	0.131	4.5	4.5	0.09	0.01	17.665	17.665	0	1.1	0.812		

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

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

DATE 27/11/2025 REF 20260-7H

 Plans and specifications referenced in certificate no. **17625** issued by:
Christopher Louis Wahbe
Registered Certifier Registration No: BDC 3015
Categories: Certifier - Subdivision

Land Development Certificates
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J:\June_2022_24606 PM File Name: J:\9895DD\CC_Construction Certificate Approval Plans\PK12\WESTERN PRECINCT 7H - Precinct 7H\9895-12-CC18420.dwg

C	LINE CB2 UPDATED	DG	DG	KE	KE	01/06/22
B	ISSUE FOR SWC APPROVAL	DG	NDW	KE	PM	08/03/22
A	ISSUE FOR CMA APPROVAL	DG	NDW	KE	PM	19/01/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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

CLIENT:  **WINTIN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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PROJECT No: **9985-12**

SHEET No: **CC18420**

NEWPARK PRECINCT 7, STAGE 7H DRAINAGE CALCULATIONS SHEET 10

PLAN No: **9985-12-CC18420**

PROJECT No: **9985-12**

SHEET No: **CC18420**

DATE: 27/11/2025

REF: 20260-7H

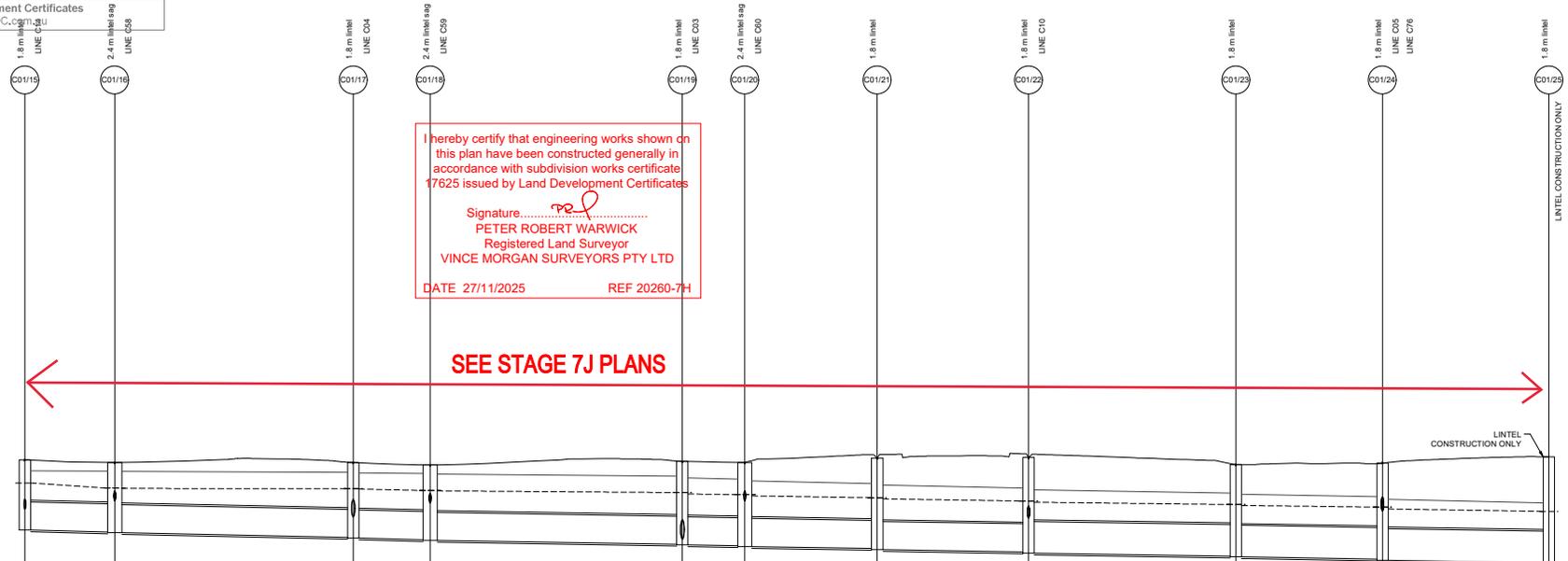
AZIMUTH/M.G.A.94	DATUM: A.H.D.	ORIGIN: SSM 1112	PLAN No: 9985-12-CC18420	C
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Plans and specifications referenced in certificate no. **17625** issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision

Land Development Certificates
 www.LDC.com.au

NOTE:
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 - - - 5% AEP HGL



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

DATE 27/11/2025 REF 20260-7H

SEE STAGE 7J PLANS

DATUM (m)	9.00																														
PEAK FLOW (L/s)	2038	1064	1630	1465	2535	2305	2311	2732	2748	3113																					
PIPE SIZE (mm)	1200	1200	1200	1200	1200	1200	1200	1350	1350	1350																					
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2		RRJ2																			
PIPE GRADE (%)	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		0.3																			
PIPE COVER MINIMUM	1.69	1.73	1.93	1.97	2.29	2.41	2.68	2.55	2.76	2.76		2.76																			
FULL PIPE VELOCITY (m/s)	1.96	1.43	1.76	1.32	2.24	2.05	2.04	1.94	1.92	2.17		2.17																			
HGL GRADE (%)	1.16		0.36	0.13	0.28	0.3	0.29	0.22	0.23	0.28		0.28																			
NOTE: 10% AEP VALUES SHOWN																															
WAE																															
HYDRAULIC GRADE LINE	14.893	14.898	14.821	14.799	14.791	14.699	14.688	14.587	14.673	14.557	14.661	14.601	14.584	14.428	14.415	14.397	14.113	14.293	14.250	13.985	14.144	14.093	13.782	13.996	13.596	13.584	13.584	13.501	13.502		
INVERT LEVEL	14.893	14.898	14.821	14.799	14.791	14.699	14.688	14.587	14.673	14.557	14.661	14.601	14.584	14.428	14.415	14.397	14.113	14.293	14.250	13.985	14.144	14.093	13.782	13.996	13.596	13.584	13.584	13.501	13.502		
DESIGN SURFACE LEVEL	14.919	14.918	14.821	14.799	14.791	14.699	14.688	14.587	14.673	14.557	14.661	14.601	14.584	14.428	14.415	14.397	14.113	14.293	14.250	13.985	14.144	14.093	13.782	13.996	13.596	13.584	13.584	13.501	13.502		
ROAD CHAINAGE	349.19	1060.58	17.918																												
PIPE CHAINAGE	349.19	1060.58	1169.81	17.799																											

LINE C01



REV	DESCRIPTION	DATE	BY	CHECKED
C	LINE C01 UPDATED	18/08/22	DG	KE
B	ISSUE FOR SWC APPROVAL	08/03/22	DG	KE
A	ISSUE FOR CAA APPROVAL	18/11/22	DG	KE
	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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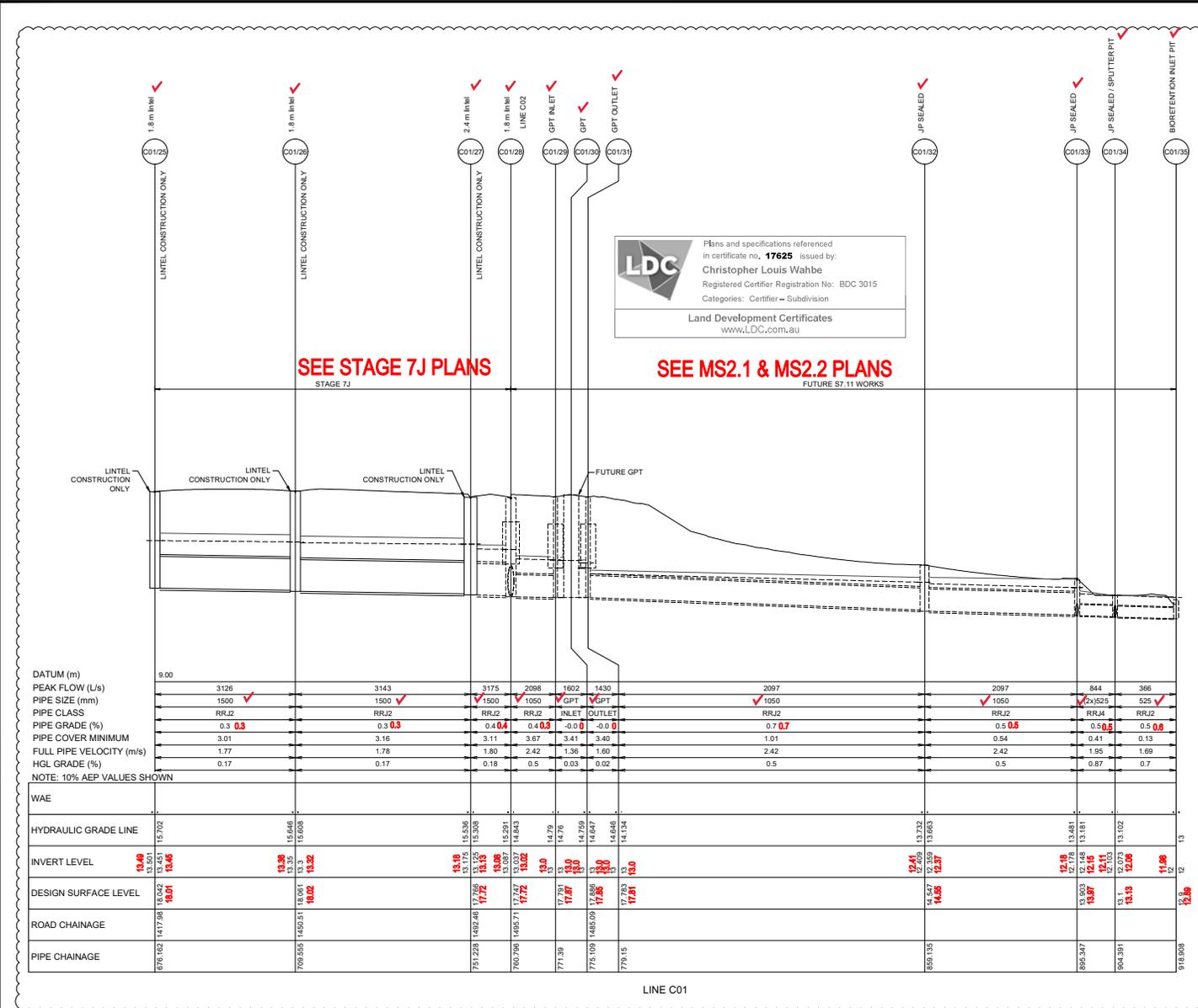
PROJECT No: **9985-12**
 SHEET No: **CC18450**

NEWARK PRECINCT 7, STAGE 7H
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 1

AZIMUTH: M.G.A. 94
 DATUM: A.H.D.
 ORIGIN: SSM 1112
 PLAN No: **9985-12-CC18450**

PROJECT No: **9985-12**
 SHEET No: **CC18450**

18 August 2022 3:36:57 PM File Name: J:\9985\DOC - Continuation Certificate Approval Plans\K12 - WESTERN PRECINCT 7J - Plan\17616985-12-CC18451.dwg



LDC
 Plans and specifications referenced
 in certificate no. **17625** issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
Land Development Certificates
 www.LDC.com.au

SEE STAGE 7J PLANS

SEE MS2.1 & MS2.2 PLANS

DATUM (m)	9.00																	
PEAK FLOW (L/s)	3126			3143			3175			2098			1602			1430		
PIPE SIZE (mm)	1500			1500			1500			1050			GPT			GPT		
PIPE CLASS	RRJ2			RRJ2			RRJ2			RRJ2			INLET			OUTLET		
PIPE GRADE (%)	0.3			0.3			0.4			0.4			0.0			0.0		
PIPE COVER MINIMUM	3.01			3.16			3.11			3.67			3.41			3.40		
FULL PIPE VELOCITY (m/s)	1.77			1.78			2.42			1.36			1.88			2.42		
HGL GRADE (%)	0.17			0.17			0.18			0.5			0.03			0.02		
NOTE: 10% AEP VALUES SHOWN																		
WAE																		
HYDRAULIC GRADE LINE	15.702																	
INVERT LEVEL	13.49			13.38			13.16			12.41			12.16			11.98		
DESIGN SURFACE LEVEL	13.45			13.32			13.07			12.87			12.15			11.98		
ROAD CHAINAGE	1417.08			1450.51			1482.45			1486.71			1485.05			1485.05		
PIPE CHAINAGE	676.162			709.855			751.228			780.796			771.538			775.091		

NOTE:
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 - - - 5% AEP HGL

I hereby certify that engineering works shown on
 this plan have been constructed generally in
 accordance with subdivision works certificate
 17625 issued by Land Development Certificates
 Signature:
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 27/11/2025 REF 20260-7H



DATUM (m)	12.00					
PEAK FLOW (L/s)	74		112			
PIPE SIZE (mm)	375		375			
PIPE CLASS	RRJ2		RRJ2			
PIPE GRADE (%)	1.0		1.0			
PIPE COVER MINIMUM	1.10		1.14			
FULL PIPE VELOCITY (m/s)	1.18		1.32			
HGL GRADE (%)	0.49		0.53			
WAE						
HYDRAULIC GRADE LINE						
INVERT LEVEL	17.459		17.616			
DESIGN SURFACE LEVEL	17.46		17.57			
ROAD CHAINAGE	1448.86		1460.5			
PIPE CHAINAGE	9.426		43.775			



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CLIENT: **WINTIN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
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NEWPARK PRECINCT 7, STAGE 7H DRAINAGE LOGITUDINAL SECTIONS SHEET 2

PROJECT No: **9985-12**
 SHEET No: **CC18451**
 PLAN No: **9985-12-CC18451**

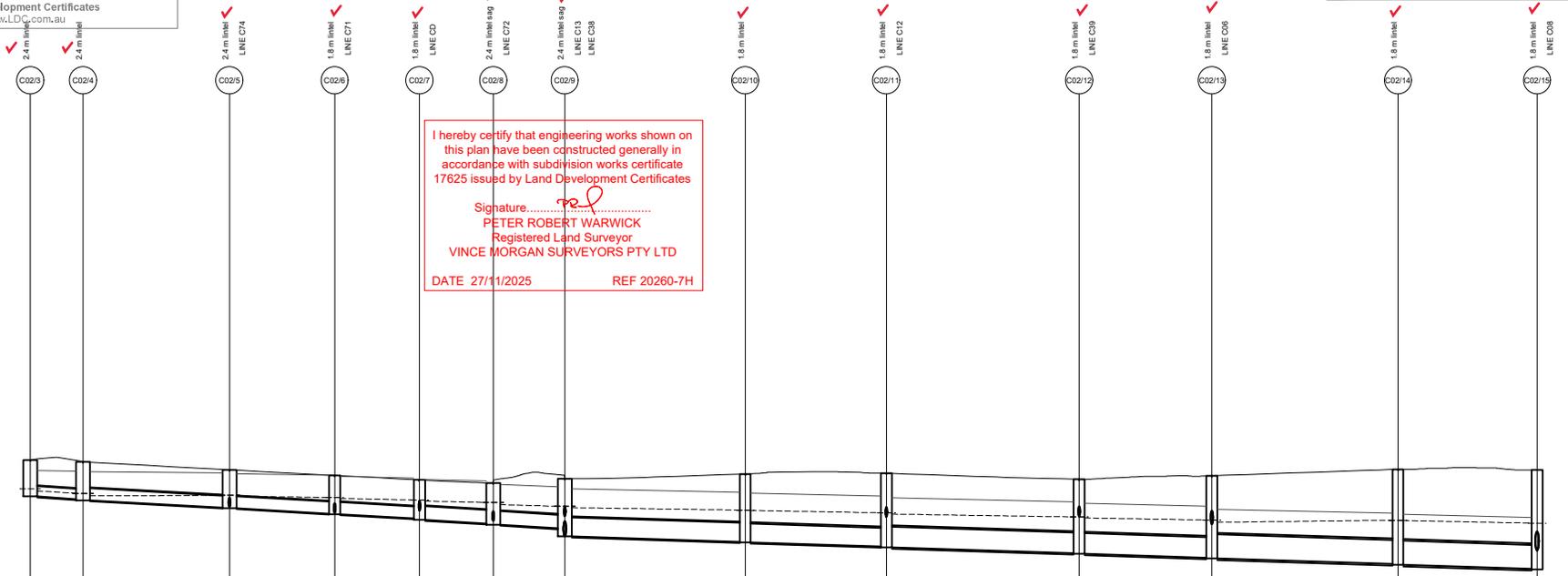
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Plans and specifications referenced in certificate no. 17625 issued by:
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 Categories: Certifier - Subdivision

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

DATE 27/11/2025 REF 20260-7H

	10.00	211	280	339	470	566	1046	1048	1166	1159	1721	1883
PEAK FLOW (L/s)	152	211	280	339	470	566	1046	1048	1166	1159	1721	1883
PIPE SIZE (mm)	450 ✓	525 ✓	525 ✓	525 ✓	600 ✓	600 ✓	900 ✓	900 ✓	900 ✓	1050 ✓	1050 ✓	1050 ✓
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2
PIPE GRADE (%)	1.0 0.8	1.0	1.0	1.0	1.0 1.3	1.0 1.1	0.6	0.6	0.6	0.6	0.6	0.6 0.7
PIPE COVER MINIMUM	1.15	1.10	1.11	1.13	1.10	1.37	1.55	2.14	2.26	2.30	2.51	3.06
FULL PIPE VELOCITY (m/s)	1.43	1.49	1.66	1.84	1.81	2.09	2.14	2.11	2.05	2.14	2.40	2.37
HGL GRADE (%)	0.87	-0.09	0.24	0.37	0.36	0.48	0.26	0.32	0.3	0.33	-0.22	0.37
NOTE: 10% AEP VALUES SHOWN												
WAE												
HYDRAULIC GRADE LINE	16.971	17.269	16.974	16.876	16.784	16.689	16.574	16.429	16.307	16.15	15.907	15.749
INVERT LEVEL	16.971	16.971	16.971	16.971	16.971	16.971	16.971	16.971	16.971	16.971	16.971	16.971
DESIGN SURFACE LEVEL	18.515	18.515	18.515	18.515	18.515	18.515	18.515	18.515	18.515	18.515	18.515	18.515
ROAD CHAINAGE	43.775	111.71	184.03	260.00	339.00	418.00	497.00	576.00	655.00	734.00	813.00	892.00
PIPE CHAINAGE	43.775	111.71	184.03	260.00	339.00	418.00	497.00	576.00	655.00	734.00	813.00	892.00

LINE C02



REV	DESCRIPTION	BY	CHKD	DATE
B	FLows ON LINE C02 UPDATED	DG	DG	01/06/22
C	ISSUE FOR SWC APPROVAL	DG	NDW	08/03/22
A	ISSUE FOR CMA APPROVAL	DG	NDW	19/01/22
	AMENDMENT	DES	DRN	CKD
		APR		DATE

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

CLIENT: **WINTEN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

PROJECT: **NEWPARK DRAINAGE LOGITUDINAL SECTIONS SHEET 3**

PROJECT No: **9985-12**
 SHEET No: **CC18452**

Project: 9 March 2022 11:20:30 AM File Name: J:\9850\DC - Construction Certificate Approval Plans\PK2 - WESTERN PRECINCT\9850-12-CC18453.dwg

NOTE:
 - - - 1% AEP HGL PROVIDED FOR INFORMATION ONLY.
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Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD

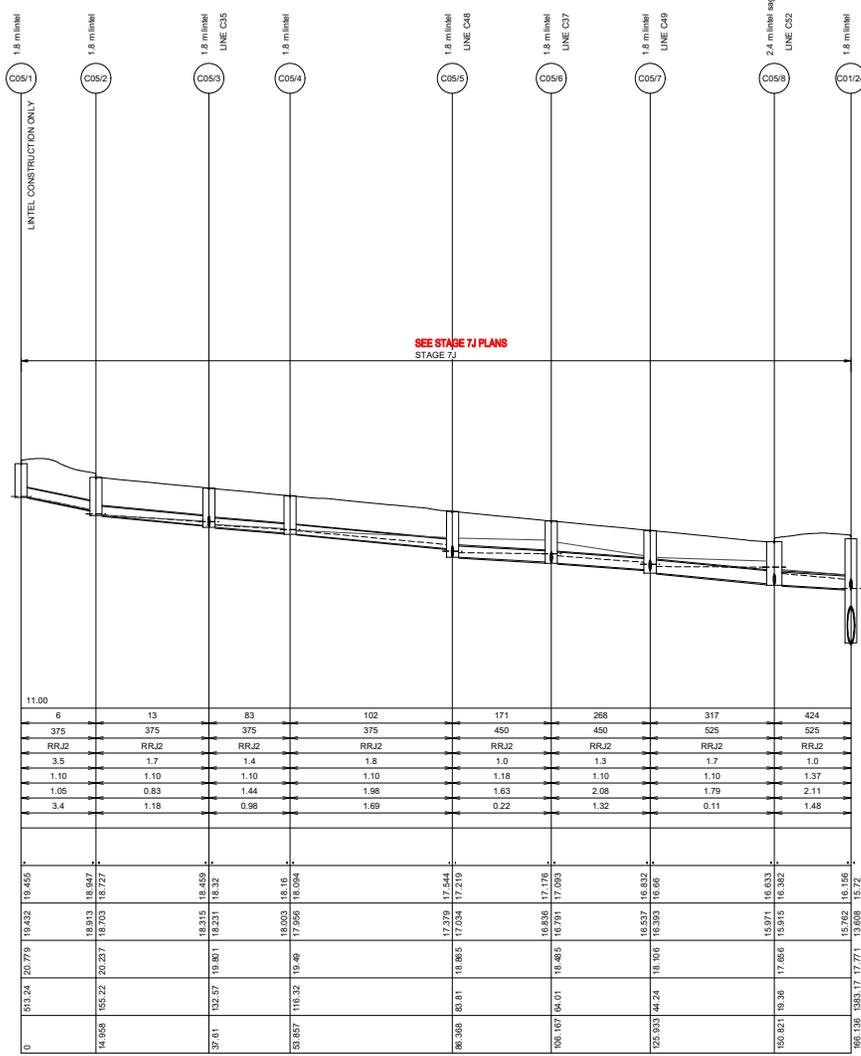
DATE 27/11/2025 REF 20260-7H

DATUM (m)	9.00	
PEAK FLOW (L/s)	2774	2794
PIPE SIZE (mm)	1350 ✓	1350 ✓
PIPE CLASS	RRJ2	RRJ2
PIPE GRADE (%)	0.6 ✓	0.6 ✓
PIPE COVER MINIMUM	2.94	3.11
FULL PIPE VELOCITY (m/s)	2.73	2.01
HGL GRADE (%)	0.6	0.4

NOTE: 10% AEP VALUES SHOWN

WAE		
HYDRAULIC GRADE LINE	15.70 13.44 13.72	15.458 15.432
INVERT LEVEL	18.05 18.05 18.05	18.38 18.38 18.38
DESIGN SURFACE LEVEL	18.08 18.05 18.05	18.38 18.38 18.38
ROAD CHAINAGE	374.851 585.17	457.258 655.76
PIPE CHAINAGE	445.268 551.071	462.75 1495.71

LINE C02



LINE C05



LDC Plans and specifications referenced in certificate no. **17625** issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision

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B	ISSUE FOR S/W APPROVAL	DC	NDW	KE	PM
A	ISSUE FOR CAA APPROVAL	DC	NDW	KE	PM
	AMENDMENT	DES	DRN	CKD	APR

J. WYNDHAM PRINCE
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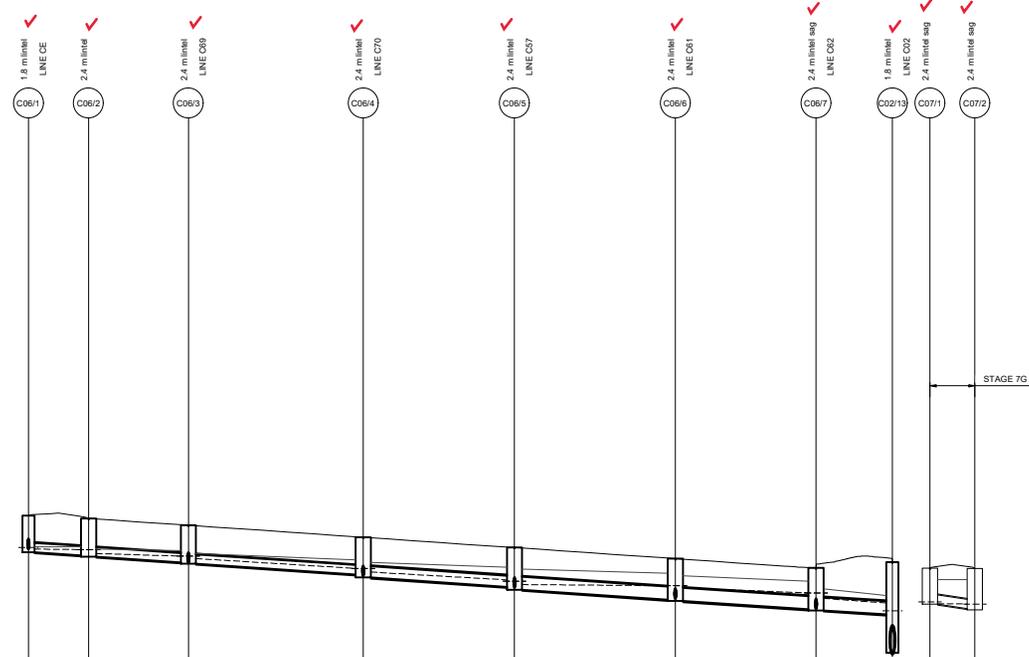
NEWPARK PRECINCT 7, STAGE 7H DRAINAGE LOGITUDINAL SECTIONS SHEET 4

AZIMUTH: G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC18453

PROJECT No: **9985-12**
 SHEET No: **CC18453**

Project: 9 March 2022 11:20:33 AM File Name: J:\9885DCC - Construction Certificate Approval Plans\PK2 - WESTERN PRECINCT\9 - Precinct7\9885-12-CC18454.dwg

NOTE:
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	LINE C06										LINE C07			
DATUM (m)	11.00											14.00		
PEAK FLOW (L/s)	65	108			160			242		314		389	477	18
PIPE SIZE (mm)	375	375	375	375	375	450	375	450	375	525	375	525	525	375
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2
PIPE GRADE (%)	1.0	0.7	1.2	1.2	1.3	1.2	1.2	1.2	1.2	1.3	1.0	1.0	1.0	2.0
PIPE COVER MINIMUM	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
FULL PIPE VELOCITY (m/s)	1.03	1.36	1.36	1.36	1.36	2.00	2.00	2.00	2.00	1.80	2.26	2.26	2.26	0.80
HGL GRADE (%)	0.17	0.54			1.12	1.05	1.05	1.05	1.05	0.69	1.21	1.21	1.21	0.03
NOTE: 10% AEP VALUES SHOWN														
WAE														
HYDRAULIC GRADE LINE	18.354	18.354	18.333	18.333	18.333	18.333	18.333	18.333	18.333	18.333	18.333	18.333	18.333	18.333
INVERT LEVEL	18.253	18.253	18.149	18.149	18.149	18.149	18.149	18.149	18.149	18.149	18.149	18.149	18.149	18.149
DESIGN SURFACE LEVEL	18.09	18.09	18.09	18.09	18.09	18.09	18.09	18.09	18.09	18.09	18.09	18.09	18.09	18.09
ROAD CHAINAGE	167.98	160.00	140.00	130.00	120.00	105.00	97.032	74.89	42.50	14.33	14.33	14.33	14.33	14.33
PIPE CHAINAGE	0	12.032	32.032	67.032	97.032	129.338	157.702	173.015	185.015	195.015	205.015	215.015	225.015	235.015

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates
 Signature:
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 27/11/2025 REF 20260-7H

Plans and specifications referenced in certificate no. 17625 issued by:
 Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
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AMENDMENT	DES	DRN	CKD	APR	DATE	
B	ISSUE FOR S/W APPROVAL	DG	NDW	KE	PM	08/03/22
A	ISSUE FOR CAA APPROVAL	DG	NDW	KE	PM	18/01/22

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

CLIENT:

WINTIN PROPERTY GROUP

STATUS:
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NEWPARK
 PRECINCT 7, STAGE 7H
 DRAINAGE LOGITUDINAL SECTIONS
 SHEET 5
 AZIMUTH: G.A.94
 DATUM: A.H.D.
 ORIGIN: SSM 1112
 PLAN No: 9985-12-CC18454

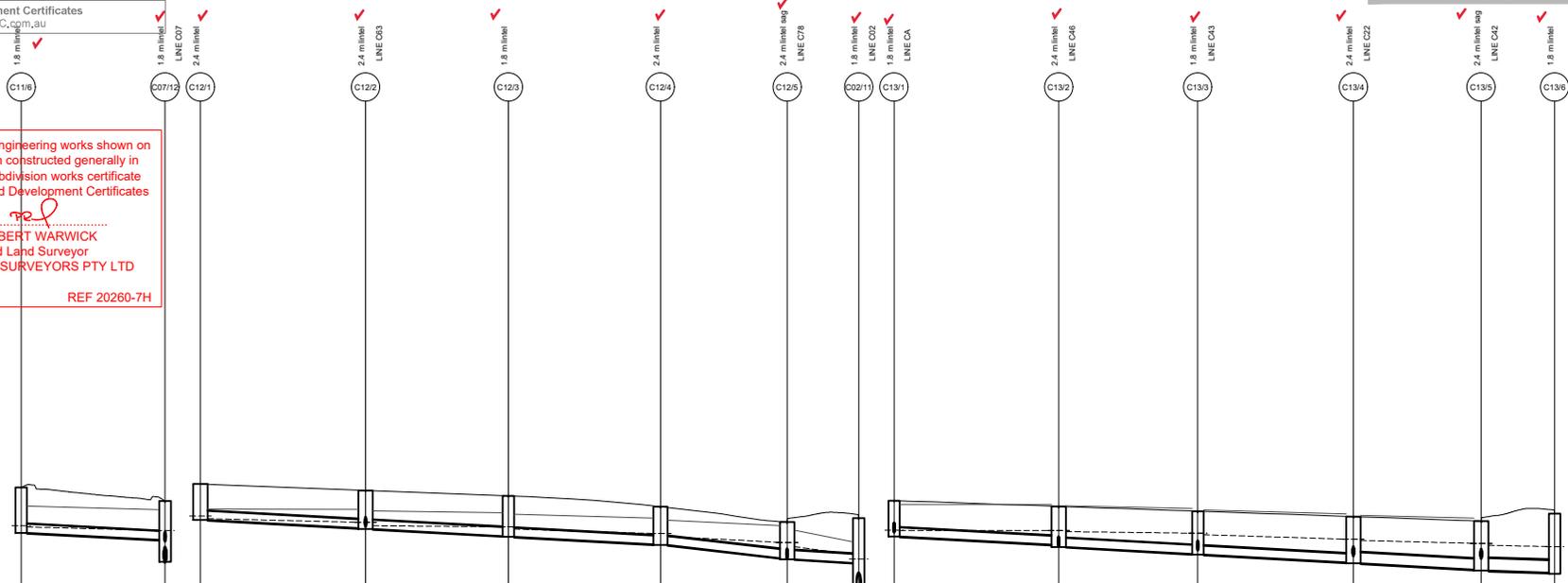
PROJECT No: 9985-12
 SHEET No: CC18454
 B

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

DATE 27/11/2025 REF 20260-7H



LINE C11	LINE C12	LINE C13
DATUM (m) 11.00	11.00	11.00
PEAK FLOW (L/s) 171	49	52
PIPE SIZE (mm) 375 ✓	375 ✓	375 ✓
PIPE CLASS RRL2 ✓	RRL2 ✓	RRL2 ✓
PIPE GRADE (%) 1.0 1.0	1.0 ✓	1.0 ✓
PIPE COVER MINIMUM 1.27	1.21	1.30
FULL PIPE VELOCITY (m/s) 1.83	1.64	1.68
HGL GRADE (%) 0.51	0.58	0.59
NOTE: 10% AEP VALUES SHOWN		
WAE		
HYDRAULIC GRADE LINE 17.00	17.919	17.424
INVERT LEVEL 17.23	17.29	16.85
DESIGN SURFACE LEVEL 16.24	16.11	16.22
ROAD CHAINAGE 114.146	65.212	64.35
PIPE CHAINAGE 114.146	65.212	64.35



Project: 8 March 2022 11:20:33 AM File Name: J:\9850\CC - Construction Certificate Approval Plans\PK2 - WESTERN PRECINCT\318 - Precinct\7\9850-12-CC\8457.dwg

B	ISSUE FOR S/W APPROVAL	DC	NDW	KE	PM 08/03/22
A	ISSUE FOR CAA APPROVAL	DC	NDW	KE	PM 18/01/22
	AMENDMENT	DES	DRN	CKD	APR DATE

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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

CLIENT: **WINTEN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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

NEWPARK
 PRECINCT 7, STAGE 7H
 DRAINAGE LOGITUDINAL SECTIONS
 SHEET 8

AZIMUTH: G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC18457

PROJECT No: **9985-12**
 SHEET No: **CC18457**

LDC Plans and specifications referenced in certificate no. **17625** issued by: **Christopher Louis Wahbe**
Registered Certifier Registration No. BDC 3015
Categories: Certifier - Subdivision

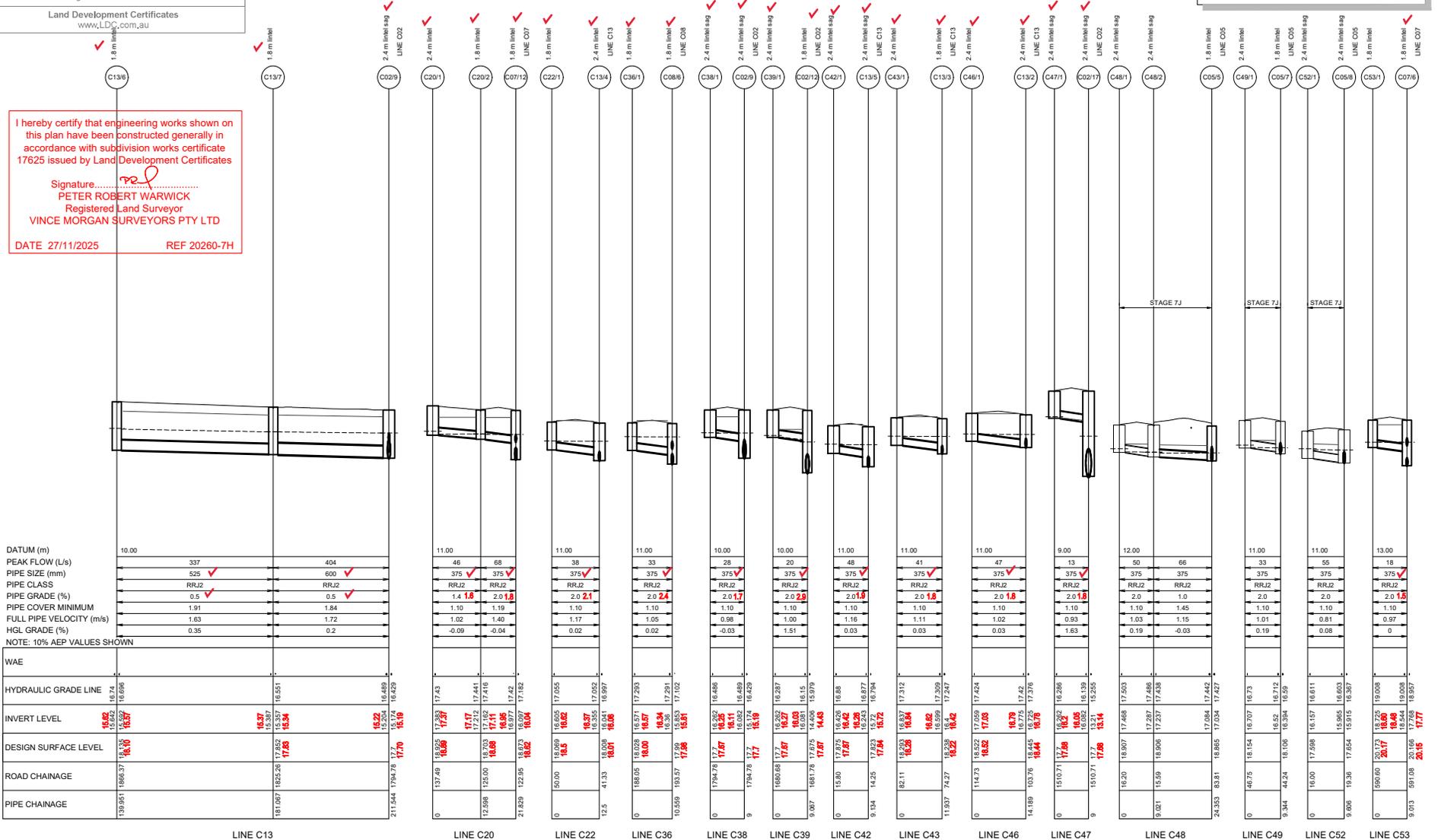
Land Development Certificates
www.LDC.com.au

NOTE: --- 1% AEP HGL PROVIDED FOR INFORMATION ONLY.
--- 5% AEP HGL

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

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

DATE 27/11/2025 REF 20260-7H



DATUM (m)	10.00
PEAK FLOW (L/s)	337
PIPE SIZE (mm)	525 ✓
PIPE CLASS	RRJ2 ✓
PIPE GRADE (%)	0.5 ✓
PIPE COVER MINIMUM	1.91
FULL PIPE VELOCITY (m/s)	1.63
HGL GRADE (%)	0.35

NOTE: 10% AEP VALUES SHOWN

WAE	
HYDRAULIC GRADE LINE	16.74, 16.996
INVERT LEVEL	16.62, 16.62, 16.74, 16.996
DESIGN SURFACE LEVEL	16.10, 16.57, 17.83, 18.34
ROAD CHAINAGE	139.951, 186.37, 211.544, 1784.78
PIPE CHAINAGE	139.951, 186.37, 211.544, 1784.78



Printed: 9 March, 2022 11:21:10 AM File Name: J:\9850CC - Construction Certificate Approval Plans\PK2 - WESTERN PRECINCT\318 - Precinct 7\9850-12-CC18458.dwg

B	ISSUE FOR S/W APPROVAL	DC	NDW	KE	PM	08/03/22
A	ISSUE FOR CAA APPROVAL	DC	NDW	KE	PM	18/01/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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

CLIENT: **WINTEN PROPERTY GROUP**

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PROJECT No: **9985-12**
SHEET No: **CC18458**

NEWARK
PRECINCT 7, STAGE 7H
DRAINAGE LONGITUDINAL SECTIONS
SHEET 9

PLAN No: **9985-12-CC18458**

AZ/MUTH/G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112



Plans and specifications referenced in certificate no. **17625** issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision

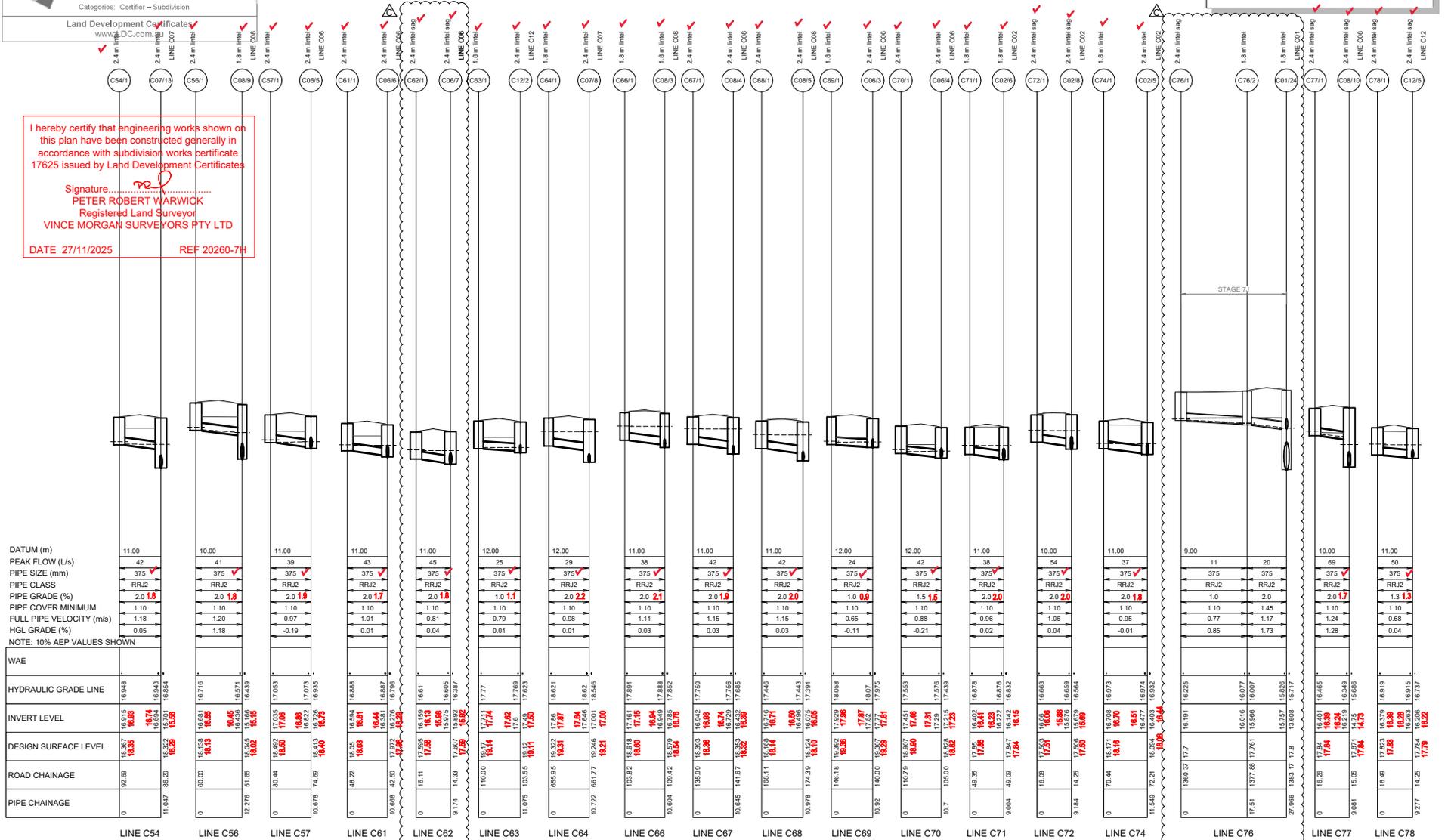
Land Development Certificate
 www.ldc.com.au

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

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

DATE 27/11/2025 REF 20260-7H

NOTE:
 --- 1% AEP HGL PROVIDED FOR INFORMATION ONLY.
 - - - 5% AEP HGL



C	DRAINAGE LONG SECTIONS UPDATED	DG	EJ	KE	01/06/22
B	ISSUE FOR SWC APPROVAL	DG	NDW	KE	08/03/22
A	ISSUE FOR CMA APPROVAL	DG	NDW	KE	19/01/22
	AMENDMENT	DES	DRN	CKD	APR

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3000 W www.jwprince.com.au E jwpr@jwprince.com.au



STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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NEWPARK PRECINCT 7, STAGE 7H DRAINAGE LONGITUDINAL SECTIONS SHEET 10

PROJECT No: **9985-12**
 SHEET No: **CC18459**

AZIMUTH:M.G.A.94 DATUM:A.H.D. ORIGIN:SSM 1112 PLAN No: **9985-12-CC18459** C

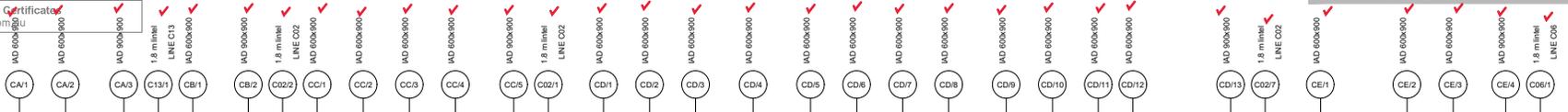
Date: 2022-2-20 2:25 PM File Name: J:\9985\DOC - Construction Certificate Approval Plans\PK12\WESTERN PRECINCT 7H - Precinct 7H\9985-12-CC18459.dwg

LDC
 Plans and specifications referenced in certificate no. **17625** issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No. BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificate
 www.LDC.com.au

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 27/11/2025 REF 20260-7H

NOTE:
 --- 1% AEP HGL PROVIDED FOR INFORMATION ONLY.
 --- 5% AEP HGL



DATUM (m)	12.00	12.00	12.00	11.00	13.00
PEAK FLOW (L/s)	13	13	16	11	14
PIPE SIZE (mm)	150	150	150	150	150
PIPE CLASS	uPVC	uPVC	uPVC	uPVC	uPVC
PIPE GRADE (%)	1.71	1.64	1.01	1.01	1.01
PIPE COVER MINIMUM	0.60	0.60	0.60	0.60	0.60
FULL PIPE VELOCITY (m/s)	0.77	1.52	0.89	0.72	0.70
HGL GRADE (%)	0.54	2.37	0	0	0
NOTE: 5% AEP VALUES SHOWN					
WAE					
HYDRAULIC GRADE LINE	18.798	18.063	19.338	19.905	19.356
INVERT LEVEL	18.89	18.89	18.89	18.89	18.89
DESIGN SURFACE LEVEL	18.4	18.34	18.74	18.42	18.33
ROAD CHAINAGE	0	0	0	0	0
PIPE CHAINAGE	0	0	0	0	0



B	ISSUE FOR S/W APPROVAL	DG	NDW	KE	PM	08/03/22
A	ISSUE FOR CAA APPROVAL	DG	NDW	KE	PM	18/07/23
	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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PROJECT No: **9985-12**
 SHEET No: **CC18460**

NEWARK PRECINCT 7, STAGE 7H
 DRAINAGE LOGITUDINAL SECTIONS
 SHEET 11

PLAN No: **9985-12-CC18460**

DATE: **27/11/2025**

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

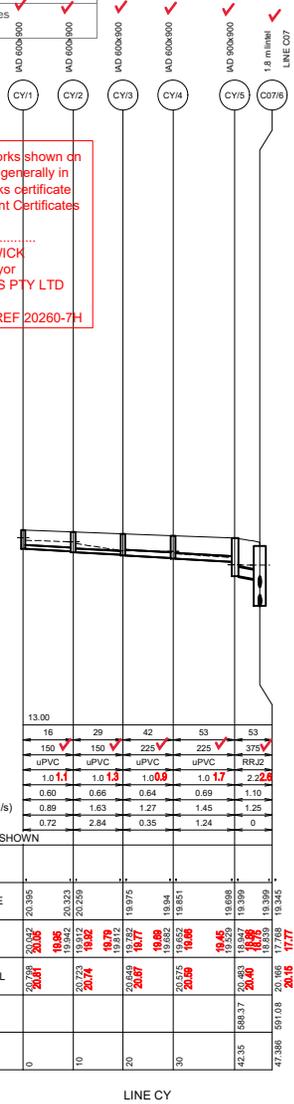
LDC Plans and specifications referenced in certificate no. **17625** issued by: **Christopher Louis Wahbe**
 Registered Certifier Registration No. BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
 www.LDC.com.au

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

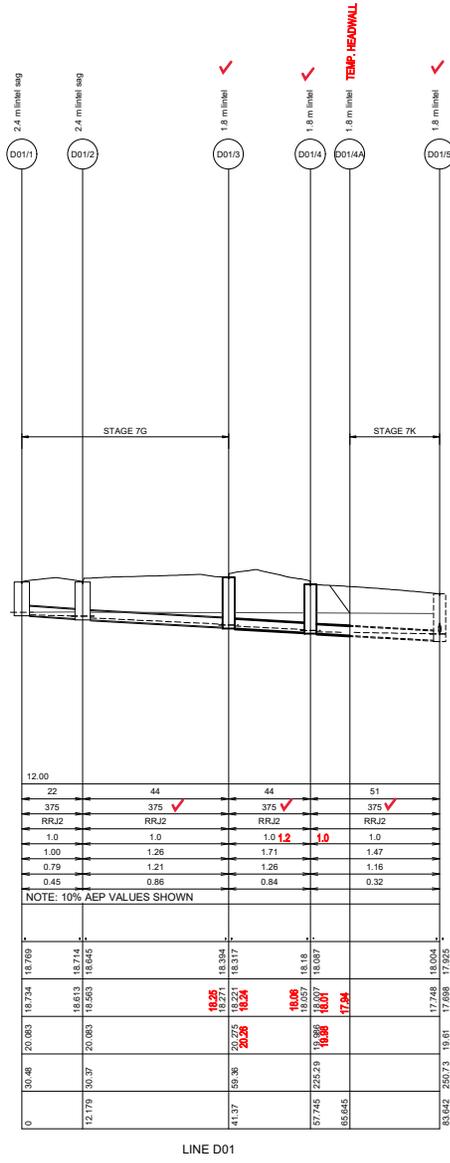
Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 27/11/2025 REF 20260-7H

DATUM (m)	13.00
PEAK FLOW (L/s)	16
PIPE SIZE (mm)	150 ✓
PIPE CLASS	uPVC ✓
PIPE GRADE (%)	1.0 1.1
PIPE COVER MINIMUM	0.60
FULL PIPE VELOCITY (m/s)	0.89
HGL GRADE (%)	0.72
NOTE: 5% AEP VALUES SHOWN	

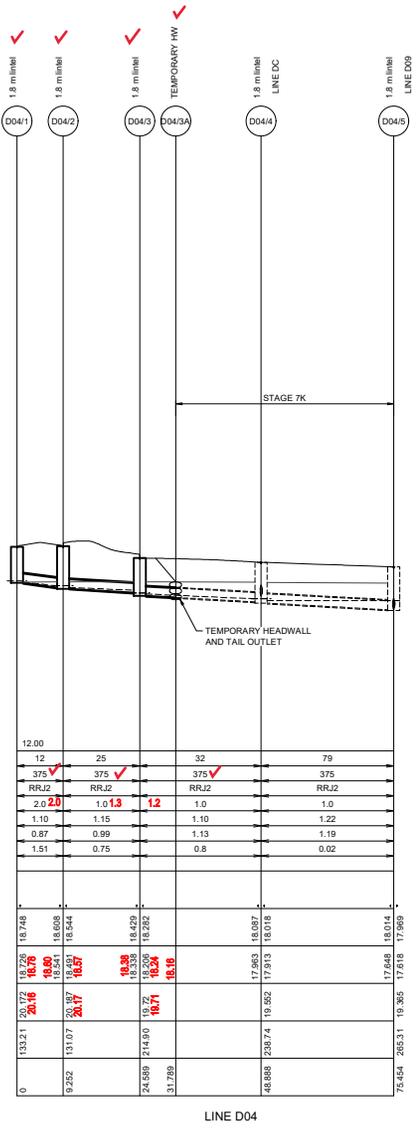
WAE	
HYDRAULIC GRADE LINE	20.395
INVERT LEVEL	20.09
DESIGN SURFACE LEVEL	20.07
ROAD CHAINAGE	0
PIPE CHAINAGE	0



LINE CY



LINE D01



LINE D04



NOTE:
 --- 5% AEP HGL

Project: 9 March 2022 11:22:10 AM File Name: J:\9985\DC - Construction Certificate Approval Plans\PC2 - WESTERN PRECINCT\318 - Precinct\7\9985-12-CC18462.dwg

B	ISSUE FOR S/WC APPROVAL	DG	NDW	KE	PM	08/03/22
A	ISSUE FOR CAA APPROVAL	DG	NDW	KE	PM	18/01/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

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

CLIENT: **WINTEN PROPERTY GROUP**

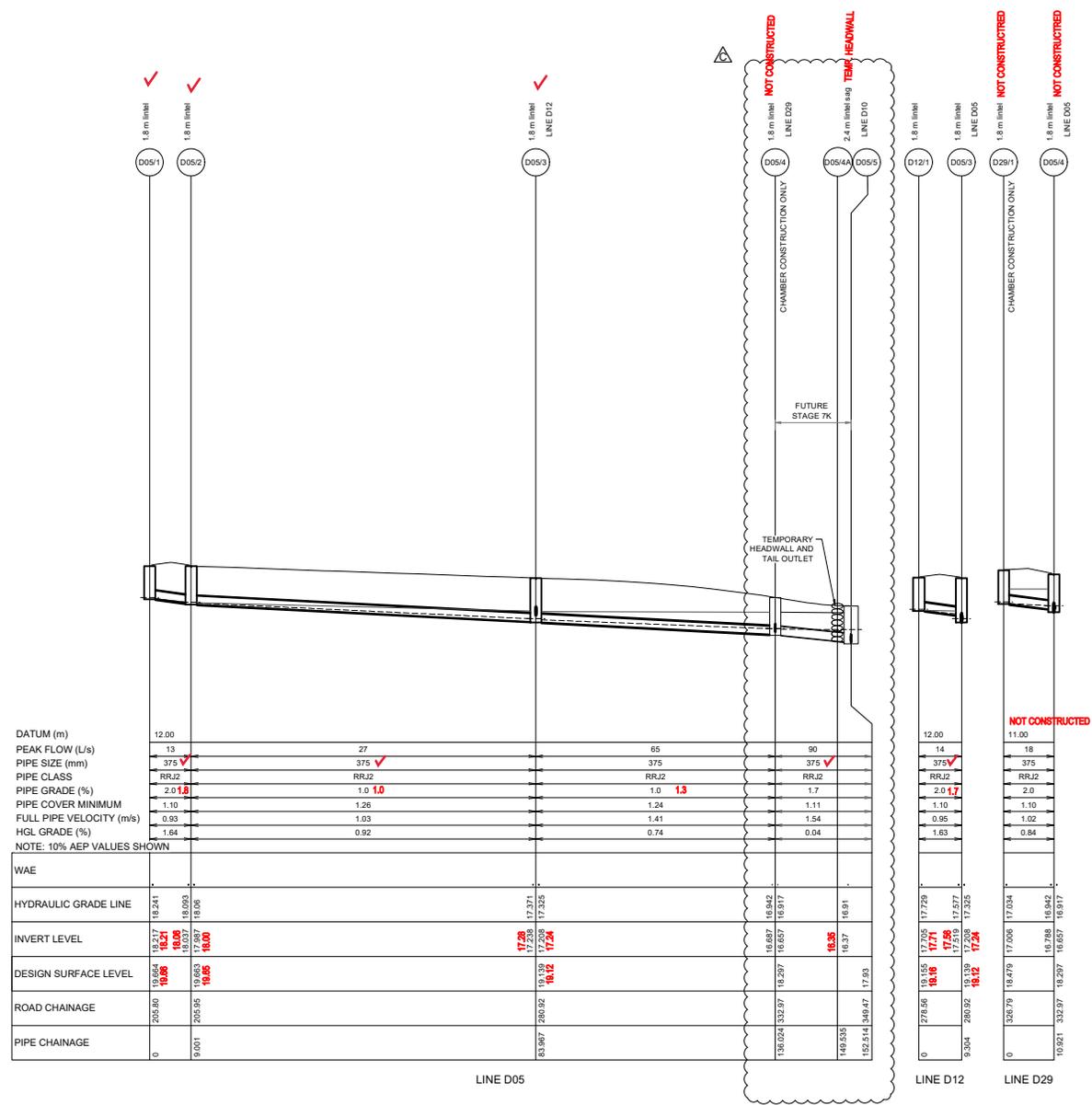
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PROJECT No: **9985-12**
 SHEET No: **CC18462**
 SHEET 13
 PLAN No: **9985-12-CC18462**

PROJECT No: **9985-12**
 SHEET No: **CC18462**
 PLAN No: **9985-12-CC18462**

2022-2-20 2:30:45 PM File Name: J:\9985D00 - Construction Certificate Approval Plans\PK12 WESTERN PRECINCT 7H - Project 176885-12-CC18463.dwg

NOTE:
 --- 5% AEP HGL



	LINE D05		LINE D12		LINE D29	
DATUM (m)	12.00				12.00	11.00
PEAK FLOW (L/s)	13	27		65	14	18
PIPE SIZE (mm)	375 ✓	375 ✓		375 ✓	375 ✓	375
PIPE CLASS	RRJ2	RRJ2		RRJ2	RRJ2	RRJ2
PIPE GRADE (%)	2.0 1.8	1.0 1.0		1.0 1.3	1.7	2.0
PIPE COVER MINIMUM	1.10	1.26		1.24	1.11	1.10
FULL PIPE VELOCITY (m/s)	0.93	1.03		1.41	1.54	1.02
HGL GRADE (%)	1.64	0.92		0.74	0.04	0.84
NOTE: 10% AEP VALUES SHOWN						
WAE						
HYDRAULIC GRADE LINE	18.241	18.241	17.235	17.235	17.729	17.729
INVERT LEVEL	18.217	18.217	17.235	17.235	17.705	17.705
DESIGN SURFACE LEVEL	19.06	19.06	18.92	18.92	18.16	18.16
ROAD CHAINAGE	205.80	205.95	260.92	260.92	326.79	326.79
PIPE CHAINAGE	0	9.001	93.987	260.92	9.304	260.92

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

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

DATE 27/11/2025 REF 20260-7H

LDC
 Plans and specifications referenced in certificate no. **17625** issued by:
 Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
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REV	DATE	BY	CHKD	APPD	DESCRIPTION
C		DG	EJ	KE	LINE D05 UPDATED
B		DG	NDW	KE	ISSUE FOR SWC APPROVAL
A		DG	NDW	KE	ISSUE FOR CMA APPROVAL
		DES	DRN	CKD	AMENDMENT

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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

CLIENT: **WINTEN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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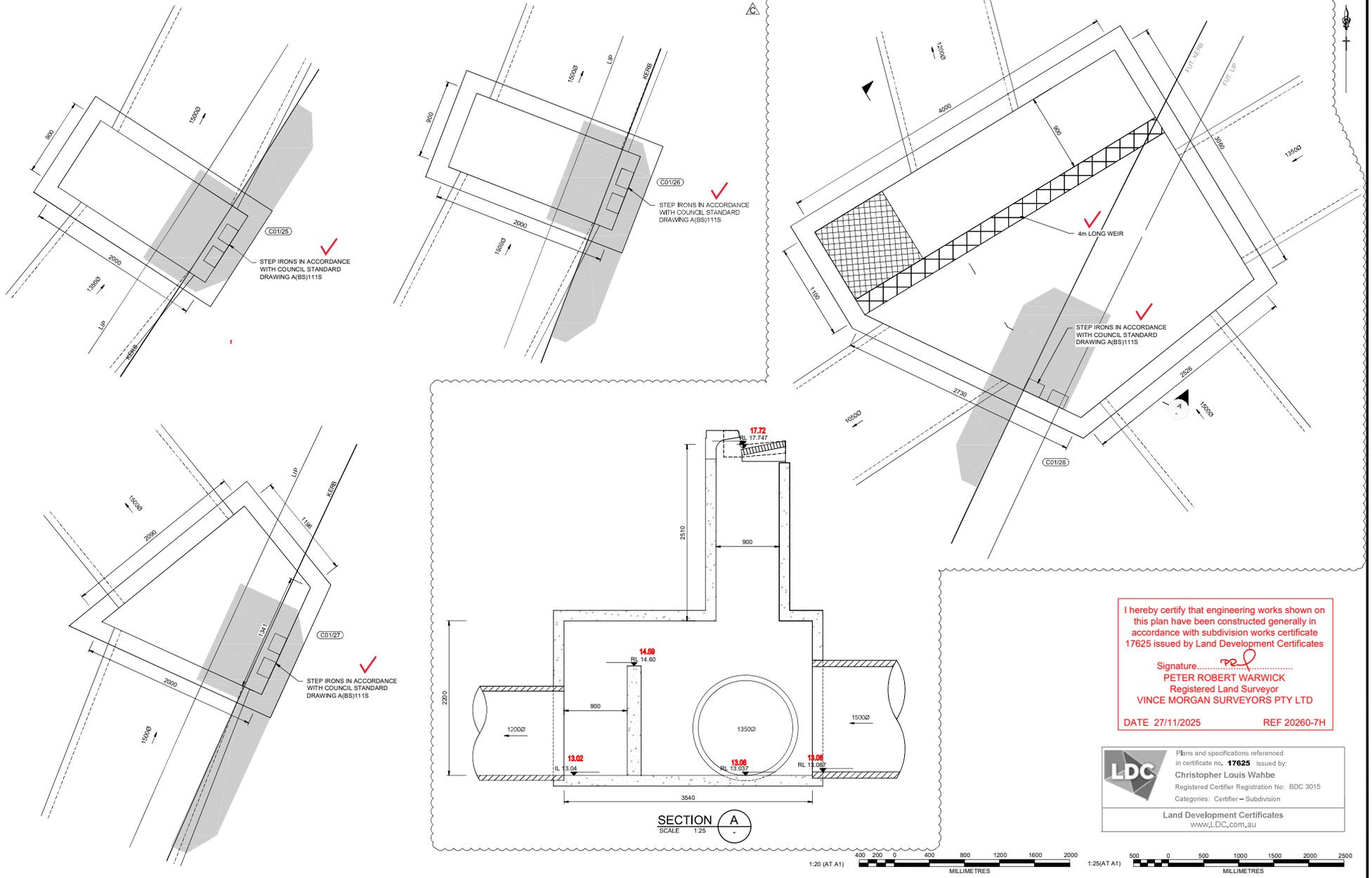
NEWPARK PRECINCT 7, STAGE 7H DRAINAGE LOGITUDINAL SECTIONS SHEET 14

PROJECT No: **9985-12**
 SHEET No: **CC18463**

PLAN No: **9985-12-CC18463**

PROJECT No: **9985-12**
 SHEET No: **CC18463**
 PLAN No: **9985-12-CC18463**

Project: 7 September, 2022 9:42:47 AM File Name: J:\9985DCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\18 - Precinct 7\9985-12-CC18501.dwg



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates
 Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 27/11/2025 REF 20260-7H

LDC Plans and specifications referenced in certificate no. **17625** issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
 www.LDC.com.au

REV	DESCRIPTION	DES	DRN	CKD	APR	DATE
C	PIT C0128 UPDATED	DG	DG	KE	KE	18/08/22
B	ISSUE FOR SWC APPROVAL	DG	NDW	KE	PM	18/03/22
A	ISSUE FOR CAA APPROVAL	DG	NDW	KE	PM	18/01/22

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

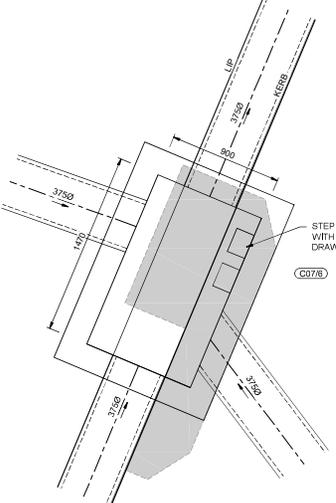
CLIENT: **WINTEN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
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NEWPARK PRECINCT 7, STAGE 7H
 SPECIAL PIT DETAILS
 SHEET 1

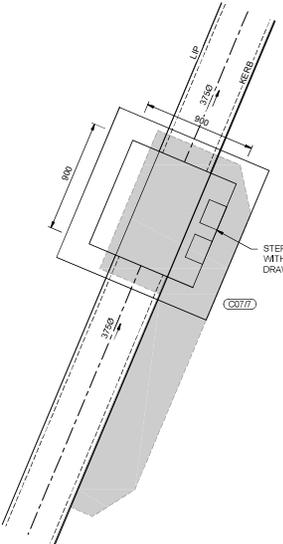
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 SHEET No: **CC18501**
 PLAN No: **9985-12-CC18501**

AZIMUTH: G.A.94	DATUM: A.H.D.	ORIGIN: SSM 1112	PLAN No: 9985-12-CC18501	C
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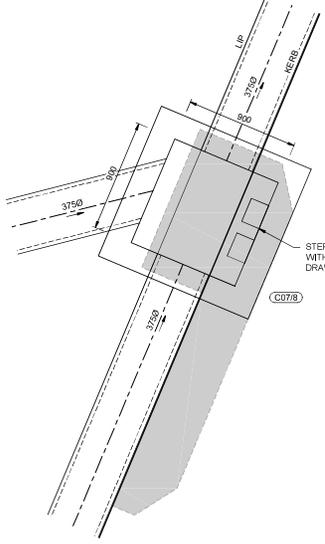
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C07/6



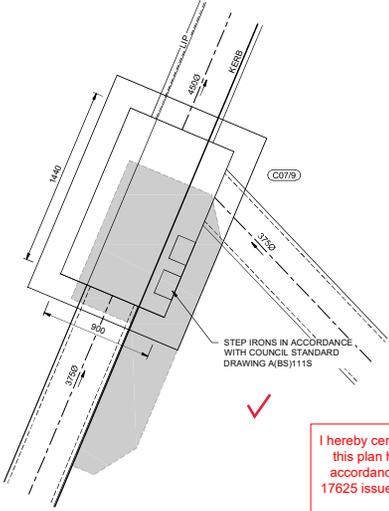
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C07/7



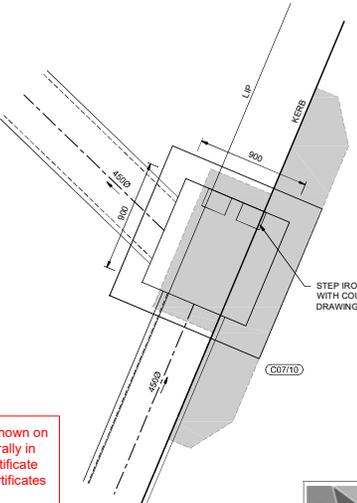
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C07/8



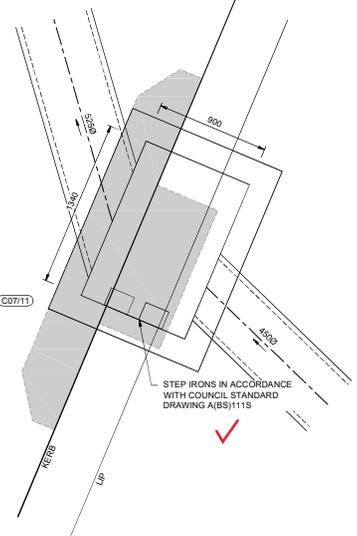
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C07/9



STEP IRONS IN ACCORDANCE WITH COUNCIL STANDARD DRAWING A(BS)1115

C07/10



STEP IRONS IN ACCORDANCE WITH COUNCIL STANDARD DRAWING A(BS)1115

C07/11

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

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

DATE 27/11/2025 REF 20260-7H

LDC Plans and specifications referenced in certificate no. **17625** issued by: **Christopher Louis Wahbe**
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier – Subdivision

Land Development Certificates
 www.LDC.com.au



Printed: 9 March 2022 11:22:26 AM File Name: J:\9850\CC - Construction Certificate Approval Plans\PC2 WESTERN PRECINCTS 7B - Precinct 7\9850-12-CC18504.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
B					
A					

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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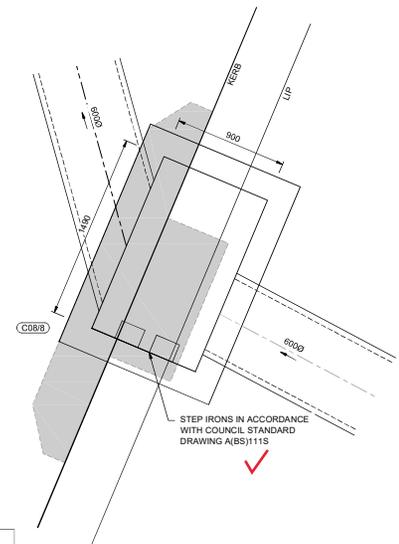
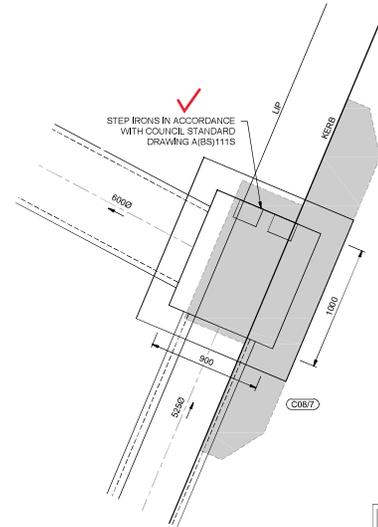
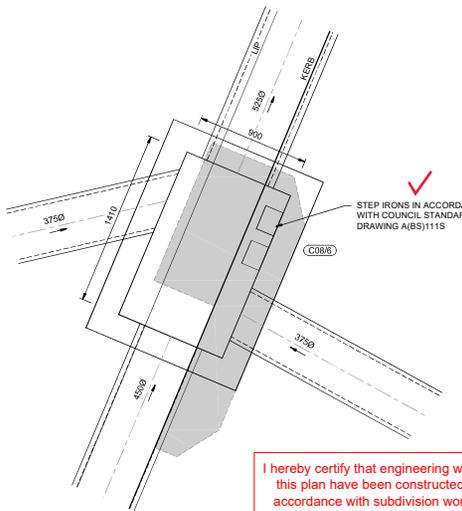
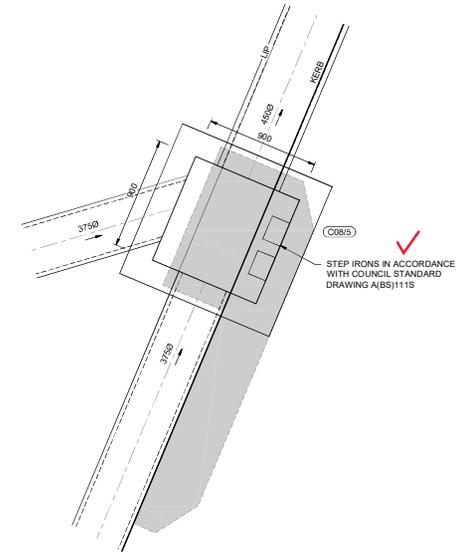
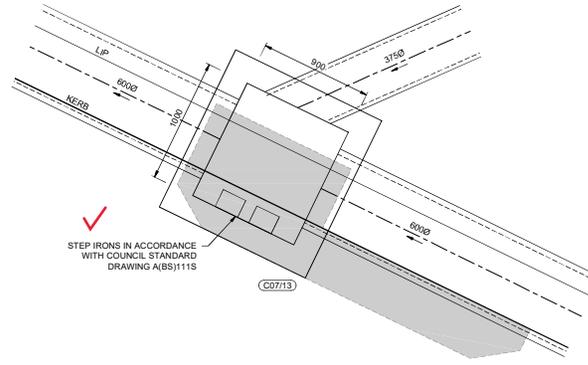
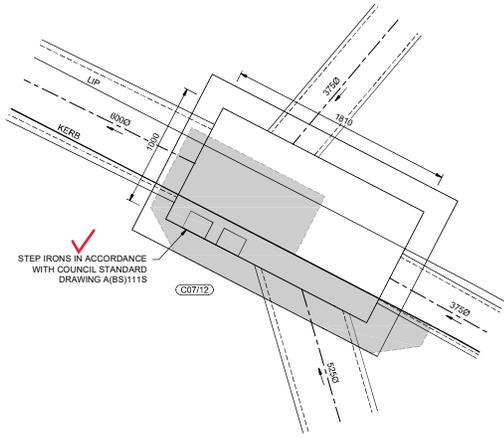
NEWPARK PRECINCT 7, STAGE 7H
 SPECIAL PIT DETAILS
 SHEET 4

PROJECT No: **9985-12**
 SHEET No: **CC18504**

AZIMUTH: G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC18504**

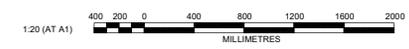
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Project: 9 March 2022 11:22:39 AM File Name: J:\0850\CC - Construction Certificate Approval Plans\PK2 - WESTERN PRECINCTS 19 - Precinct 7\9985-12-CC18505.dwg



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates
 Signature: 
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 27/11/2025 REF 20260-7H

 Plans and specifications referenced in certificate no. **17625** issued 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					
A					

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:  **WINTIN PROPERTY GROUP**

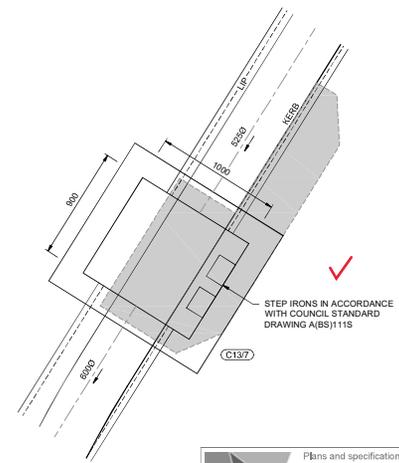
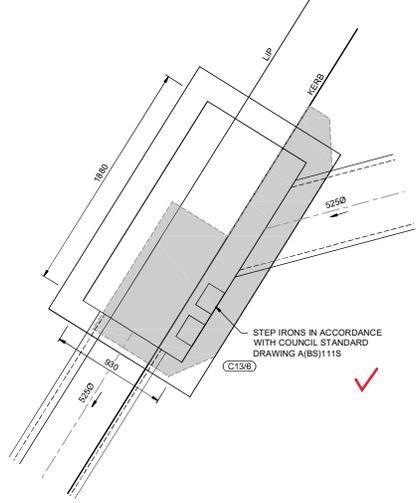
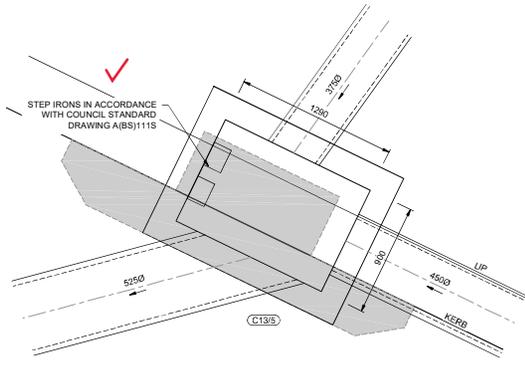
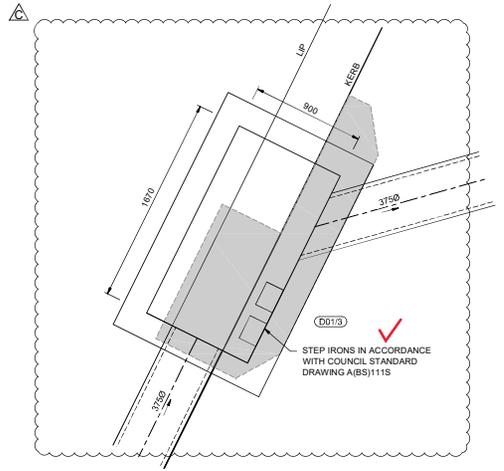
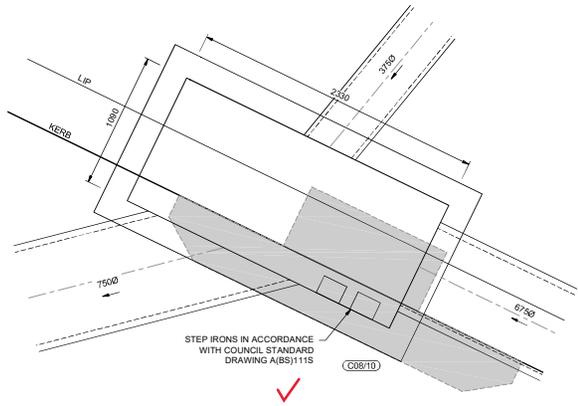
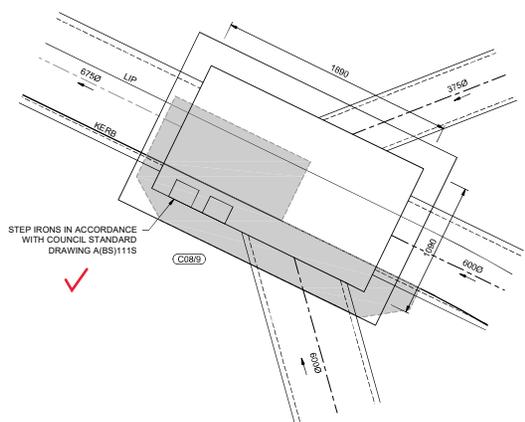
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THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE

NEWPARK PRECINCT 7, STAGE 7H
 SPECIAL PIT DETAILS
 SHEET 5
 PLAN No: 9985-12-CC18505

PROJECT No: **9985-12**
 SHEET No: **CC18505**
 AZIMUTH: M.G.A. 94
 DATUM: A.H.D.
 ORIGIN: SSM 1112
 PLAN No: **9985-12-CC18505**

B

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I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates
 Signature: 
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 27/11/2025 REF 20260-7H

 Plans and specifications referenced in certificate no. **17625** issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
 www.LDC.com.au



NO.	DESCRIPTION	DES	DRN	CHKD	APR	DATE
C	SPECIAL PIT D013 UPDATED	DG	EJ	KE	KE	01/06/22
B	ISSUE FOR SVC APPROVAL	DG	NOW	KE	PM	13/03/22
A	ISSUE FOR C&A APPROVAL	DG	NOW	KE	PM	15/07/22
	AMENDMENT	DES	DRN	CHKD	APR	DATE

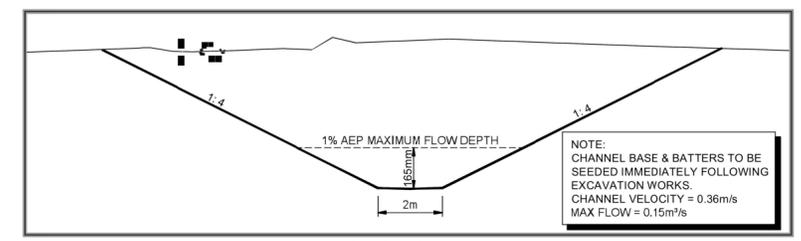
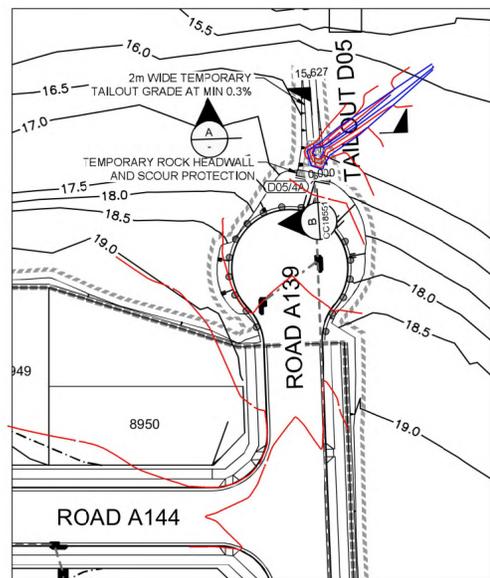
J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
 PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:  **WINTIN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
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NEWPARK PRECINCT 7, STAGE 7H
 SPECIAL PIT DETAILS
 SHEET 6
 AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC18506**

PROJECT No: **9985-12**
 SHEET No: **CC18506**
C

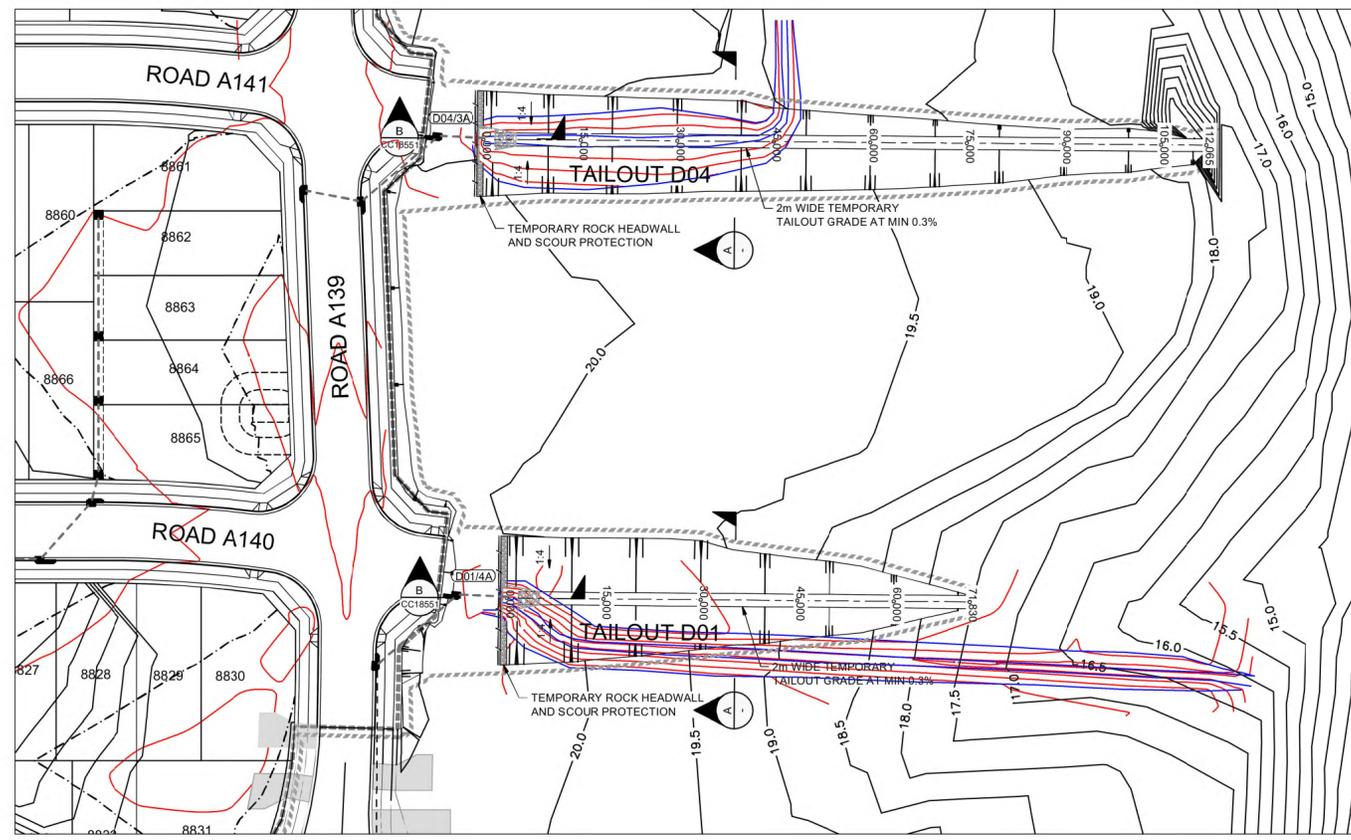


SECTION A
TAILOUT TYPICAL SECTION
NTS

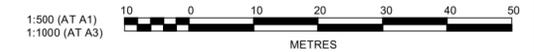
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0	295938.28	6269758.86	116°24'43.51"
71.83	296002.61	6269726.9	116°23'43.51"

TAILOUT D04			
CHAINAGE	EASTING	NORTHING	BEARING
0	295966.08	6269824.31	116°23'19.04"
112.07	296066.47	6269774.5	116°23'19.04"

TAILOUT D05			
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0	296031.23	6270020.51	22°04'50.84"
15.63	296037.11	6270034.99	22°04'50.84"



LDC Plans and specifications referenced in certificate no. **17625** issued by:
Christopher Louis Wahbe
Registered Certifier Registration No: BDC 3015
Categories: Certifier – Subdivision
Land Development Certificates
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Plotter: 8 March, 2022 11:25:23 AM File Name: J:\9885D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\18 - Precinct 7\9885-12-CC18550.dwg

	DES	DRN	CKD	APR	DATE
B	DG	NDW	KE	PM	08/03/22
A	DG	NDW	KE	PM	19/01/22
	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

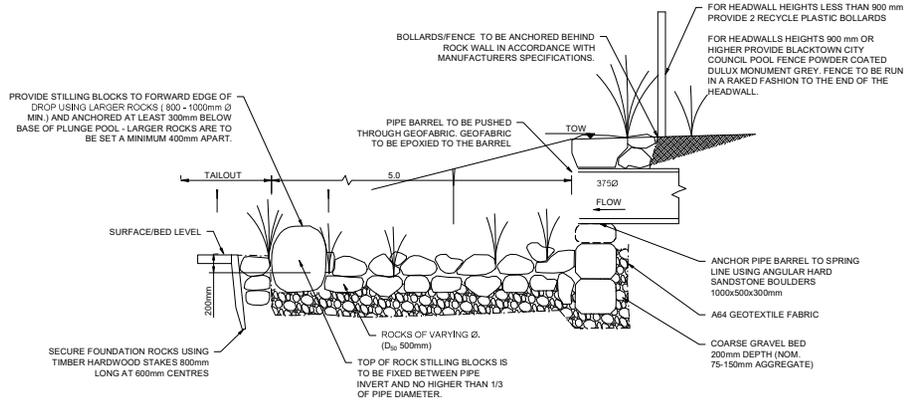
CLIENT: **WINTEN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
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NEWPARK PRECINCT 7, STAGE 7H TAILOUT PLAN

PROJECT No: **9985-12**
SHEET No: **CC18550**
PLAN No: **9985-12-CC18550**

AZIMUTH: G.A. 94	DATUM: A.H.D.	ORIGIN: SSM 1112	PLAN No: 9985-12-CC18550	B
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SECTION **B**
SCALE H N.T.S. CC18550
V N.T.S.

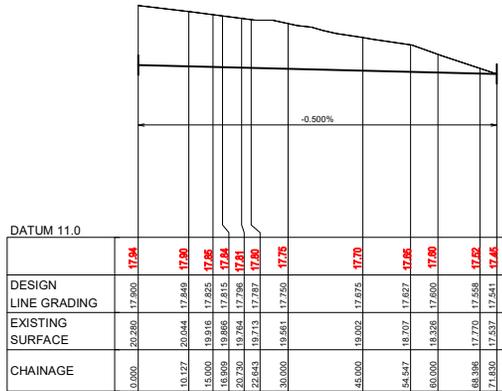
SEE PREVIOUS PAGE FOR PLOT OF DRAINAGE CHANNEL LOCATIONS

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

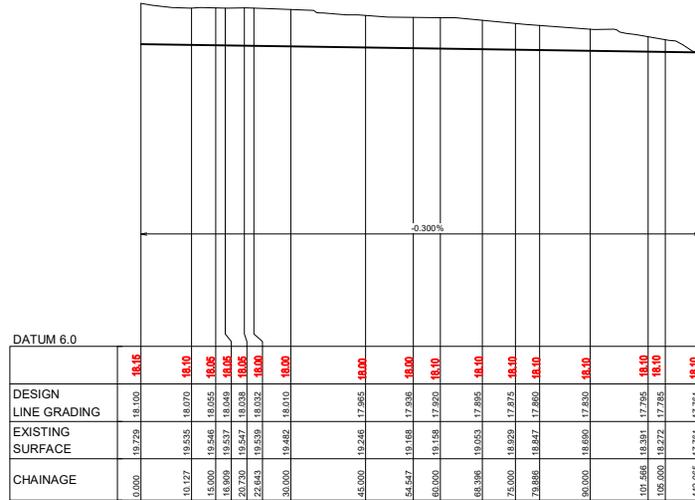
Signature *[Signature]*
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD

DATE 27/11/2025 REF 20260-7H

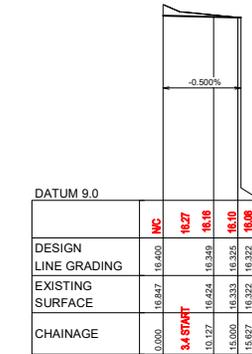
LDC Plans and specifications referenced in certificate no. **17625** issued by:
Christopher Louis Wahbe
Registered Certifier Registration No: BDC 3015
Categories: Certifier - Subdivision
Land Development Certificates
www.LDC.com.au



LONGITUDINAL SECTION TAILOUT D01
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



LONGITUDINAL SECTION TAILOUT D04
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



LONGITUDINAL SECTION TAILOUT D05
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

Project: 9 March 2022 11:22:06 AM File Name: J:\08850\CC - Construction Certificate Approval Plans\PC2 WESTERN PRECINCT 7B - Precinct 7\09850-12-CC18551.dwg

B	ISSUE FOR S/W APPROVAL	DC	NDW	KE	PM	08/03/22
A	ISSUE FOR CAA APPROVAL	DC	NDW	KE	PM	18/01/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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



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PROJECT No: **9985-12**
SHEET No: **CC18551**

PLAN No: **9985-12-CC18551**

B

SOIL AND WATER MANAGEMENT NOTES

GENERAL NOTES:

- ALL EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING REVEGETATION AND STORAGE OF SOIL AND TOPSOIL, SHALL BE IMPLEMENTED TO THE REQUIREMENTS OF THE 'SOILS AND CONSTRUCTION - VOLUME 1, 4TH EDITION, MARCH 2004'.
- TOPSOIL FROM ALL AREAS TO BE DISTURBED SHALL BE STOCKPILED AND LATER RESPIRED TO AID REVEGETATION IN THOSE AREAS.
- ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS EARLY AS POSSIBLE DURING DEVELOPMENT.
- ALL TAIL-OUT DRAINS SHALL BE COUGH GRASSED AND TRAPEZOIDAL IN SECTION. STRAW BALES SHALL BE PLACED AS A SEDIMENT CONTROL DEVICE WHERE REQUIRED.
- VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING DEVELOPMENT CONFINING ACCESS WHERE POSSIBLE TO PROPOSED OR EXISTING ROAD ALIGNMENTS. AREAS TO BE LEFT UNDISTURBED SHALL BE MARKED OFF.
- ROADS SHALL BE PAVED AS EARLY AS POSSIBLE AFTER FORMATION.
- DISTURBANCE OF VEGETATION SHALL BE LIMITED TO FILL AREAS, ROADWAYS AND DRAINAGE LINES. NO LOT GRADING SHALL BE CARRIED OUT IN UNDISTURBED AREAS WITHOUT CONSULTATION WITH COUNCIL'S ENGINEER.
- ALL DISTURBED AREAS SHALL BE REVEGETATED AS SOON AS THE RELEVANT WORKS ARE COMPLETED.
- ALL SEDIMENT BASINS AND TRAPS SHALL BE CLEANED WHEN THE STRUCTURES ARE A MAXIMUM 60% FULL OF SOLID MATERIALS, INCLUDING DURING THE MAINTENANCE PERIOD.
- THE SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS, AND COUNCIL'S WRITTEN GUIDELINES FOR THE DEVELOPMENT OF LAND.
- CONTRACTORS SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS SPECIFIED ON THE PLAN AND IN ACCORDANCE WITH THE GUIDELINES SHOWN IN "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION 4TH EDITION" ("THE BLUE BOOK").
- ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR REDUCING THE SOIL EROSION AND POLLUTION OF DOWNSLOPE AREAS.
- THE SOIL EROSION HAZARD ON THE SITE IS TO BE KEPT AS LOW AS POSSIBLE AND GENERALLY IN ACCORDANCE WITH THE FOLLOWING SCHEDULE.

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

NOTE:
WORKS WITHIN WATERWAYS AND CREEKS SHALL BE RESTRICTED AS DIRECTED - ALL LANDS WITHIN CREEKS AND WATERWAYS SHALL HAVE A GROUND COVER MORE THAN 70%, USING MATERIALS THAT CAN CATER FOR CONCENTRATED FLOWS.

- WORKS ARE TO BE UNDERTAKEN IN THE FOLLOWING SEQUENCE. EACH SUBSEQUENT STAGE IS NOT TO COMMENCE UNTIL THE PREVIOUS ONE IS COMPLETE.
 - INSTALL ALL BARRIER AND SEDIMENT FENCING WHERE SHOWN ON THE PLAN AND TO DETAIL(S) 6-8.
 - CONSTRUCT STABILISED SITE ACCESS AS SHOWN ON THE PLAN AND TO DETAIL (SD) 6-14.
 - CONSTRUCT LOW FLOW EARTH BANKS WHERE SHOWN ON THE PLAN AND TO DETAIL (SD) 5-5.
 - PROVIDE TEMP. ACCESS TO THE SEDIMENT BASIN(S) AND PROTECT THIS WITH SEDIMENT FENCING (SD) 6-8 OR BARRIER FENCING AND EARTH BANKS (SD) 5-5.
 - PLACE SEDIMENT FENCING (SD) 6-8 DOWNSLOPE OF LANDS TO BE DISTURBED FOR CONSTRUCTION OF THE SEDIMENT BASIN(S).
 - CONSTRUCT SEDIMENT BASIN(S) GENERALLY IN ACCORDANCE WITH (SD) 6-4.
 - STABILISE LAND SURFACES DISTURBED BY CONSTRUCTION OF THE SEDIMENT BASIN(S) AS SOON AS FINAL LEVELS ARE ESTABLISHED.
 - CLEAR THE SITE AND STRIP AND STOCKPILE THE TOPSOIL IN THE LOCATIONS SHOWN ON THE PLAN OR AS DIRECTED BY THE SITE SUPERINTENDENT TO DETAIL (SD) 4-1.
 - UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS.
 - GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT STABILISATION (LANDSCAPING) WITHIN 14 DAYS OF COMPLETION OF CONSTRUCTION WORKS.
 - REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER THE PERMANENT LANDSCAPING HAS BEEN COMPLETED.
- CLEARLY VISIBLE BARRIER FENCING SHALL BE INSTALLED WHERE DIRECTED BY THE SITE SUPERINTENDENT TO CONTROL AND PROHIBIT UNNECESSARY SITE DISTURBANCE
- EARTH BATTERS SHALL BE CONSTRUCTED WITH AS LOW A GRADIENT AS PRACTICABLE BUT NO STEEPER THAN:
 - 2(h) - 1(v) WHERE SLOPE LENGTH IS LESS THAN 7m
 - 2.5(h) - 1(v) WHERE SLOPE LENGTH IS BETWEEN 7m AND 10m
 - 3(h) - 1(v) WHERE SLOPE LENGTH IS BETWEEN 10m AND 12m
 - 4(h) - 1(v) WHERE SLOPE LENGTH IS BETWEEN 12m AND 15m
 - 5(h) - 1(v) WHERE SLOPE LENGTH IS BETWEEN 15m AND 27m
 - 6(h) - 1(v) WHERE SLOPE LENGTH IS GREATER THAN 27m

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

- PROTECTION FROM EROSION FORCES SHALL BE UNDERTAKEN ON ALL LANDS. GROUND COVER TO BE IN PLACE WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION AND BEFORE THEY ARE ALLOWED TO CARRY ANY CONCENTRATED FLOWS.
- TEMPORARY GROUND COVER SHOULD BE MINIMUM 70% FOOT AND VEHICULAR TRAFFIC SHALL BE KEPT AWAY FROM REHABILITATED AREAS.
- WHERE POSSIBLE THE CONSTRUCTION PROGRAM IS TO SCHEDULE WORKS SUCH THAT LAND DISTURBANCE ACTIVITIES ARE COMPLETED IN LESS THAN 6 MONTHS. REVEGETATION WORKS MUST BE CARRIED OUT AS STIPULATED IN THE RELEVANT COUNCIL GUIDELINES / SPECIFICATIONS SUCH THAT A SATISFACTORY GROUND COVER IS PROVIDED TO AT LEAST 60% OF THE DISTURBED AREA WITHIN 10 DAYS AND AT LEAST 70% OF THE DISTURBED AREA WITHIN A FURTHER 60 DAYS.
- SEDIMENT FENCES (SD) 6-8 SHALL:
 - BE INSTALLED WHERE SHOWN ON THE PLAN AND AS DIRECTED AT THE DISCRETION OF THE SITE SUPERINTENDENT DURING THE COURSE OF CONSTRUCTION TO CONTAIN THE COARSER SEDIMENT FRACTIONS AS NEAR AS POSSIBLE TO THEIR SOURCE.
 - HAVE A CATCHMENT AREA NOT EXCEEDING 720sq m AND A STORAGE DEPTH OF AT LEAST 0.6m.
 - PROVIDE AN UPSLOPE RETURN OF 1m AT INTERVALS ALONG THE FENCE WHERE THE CATCHMENT AREA EXCEEDS 720sq m TO LIMIT THE DISCHARGE REACHING EACH SECTION TO 50litres/sec IN A MAX. 10yr Tc DISCHARGE.
- STOCKPILES (SD) 4-1 SHALL BE LOCATED AS SHOWN ON THE PLANS AND AT THE DISCRETION OF THE SITE SUPERINTENDENT.
- DURING WINDY WEATHER LARGE UNPROTECTED AREAS ARE TO BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL. IN THE EVENT WATER IS NOT AVAILABLE IN SUFFICIENT QUANTITIES SOIL BINDERS AND/OR DUST RETARDANTS SHALL BE USED OR THE SURFACE SHALL BE LEFT IN A CLOUDY STATE THAT RESISTS REMOVAL BY WIND.
- STOCKPILES SHALL NOT BE LOCATED WITHIN 5m OF HAZARD AREAS, INCLUDING LIKELY AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS OR DRIVEWAYS.
- THE SEDIMENT RETENTION BASINS (SD) 6-4 SHALL:

(REFER TO J WYNDHAM PRINCE PLAN REF 998512-CC2702 FOR PRECINCT 7, STAGE 7A SEDIMENT BASIN DESIGN DETAILS)

 - BE CONSTRUCTED WHERE SHOWN ON THE PLANS.
 - BE FLOCCULATED (REF MANAGING URBAN STORMWATER SOILS & CONSTRUCTION 4TH ED.) BEFORE DISCHARGE OCCURS (UNLESS THE DESIGN STORM EVENT IS EXCEEDED)
 - HAVE ONE OR MORE PEGS PLACED ON THE FLOOR TO CLEARLY INDICATE THE LEVEL AT WHICH DESIGN CAPACITY OCCURS AND WHEN SEDIMENT SHALL BE REMOVED.
- STORED CONTENTS OF THE BASINS SHALL BE TREATED WITH GYPSIUM (APPENDIX E MANAGING URBAN STORMWATER SOILS & CONSTRUCTION 4TH ED.) OR OTHER FLOCCULATING AGENTS WHERE THEY CONTAIN MORE THAN 50mg/litre OF SUSPENDED SOLIDS. TREATMENT SHALL BE AS FOLLOWS:
 - LOWER SUSPENDED SOLIDS TO LESS THAN 50mg/litre WITHIN 24hrs OF FILLING
 - THE BASINS SHALL THEN BE ALLOWED TO STAND 38 TO 48hrs FOR FLOCCULATED PARTICLES TO SETTLE
 - THE BASINS SHALL THEN BE DRAINED SO THAT FULL STORAGE CAPACITY IS REGAINED WITHOUT DISCHARGING SEDIMENT FROM THE SITE.
- SEDIMENT REMOVED FROM ANY TRAPPING DEVICE SHALL BE DISPOSED IN LOCATIONS WHERE FURTHER EROSION AND CONSEQUENT POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS SHALL NOT OCCUR.
- WATER SHALL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE (ie THE CATCHMENT HAS BEEN LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN TREATED IN AN APPROVED DEVICE) NEVERTHELESS STORMWATER INLETS SHALL BE PROTECTED (SD) 6-11 & 6-12.
- TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES SHALL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE STABILISED.
- ACCEPTABLE BINS SHALL BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHES, LIGHT WEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES SHALL BE PROVIDED AT LEAST ONCE A WEEK.

STOCKPILE NOTES:

- SPOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES AND AREAS WHERE WATER MAY CONCENTRATE.
- IF STOCKPILES ARE TO BE IN PLACE FOR LONGER THAN 14 DAYS THEN THEY SHALL BE STABILIZED BY COVERING WITH A MULCH OR WITH TEMPORARY VEGETATION.
- FOLLOWING CONSTRUCTION, TOPSOIL SHALL BE RESPIRED TO A MINIMUM DEPTH OF 100mm ON THE BARE SOIL SURFACES AND REVEGETATED.

SEDIMENTATION CONTROL DEVICES:

- ALL STRAW BALES SHALL BE BOUND WITH WIRE. STRAW BALES SHALL BE PLACED END TO END IN A SINGLE ROW AND EMBEDDED INTO THE SOIL TO A DEPTH OF 100mm. EACH BALE SHALL BE SECURELY ANCHORED WITH TWO STEEL STAKES DRIVEN 600mm INTO THE GROUND AND LOCKED ON THE BALE CENTRELINE.
- SILT FENCES SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC (PROPEX OR SIMILAR) BETWEEN POSTS AT 2.5m CENTRES. FABRIC SHALL BE BURIED 150mm ALONG ITS LOWER EDGE.
- PROVIDE STRIP OF TURF MIN. 300mm WIDE BEHIND KERB + 1m WIDE AROUND ALL SURFACE INLET PITS

SITE INSPECTION AND MAINTENANCE:

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

THE SELF AUDIT SHALL INCLUDE:-

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

THE RESPONSIBLE PERSON SHALL ENSURE THAT:-

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

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 27/11/2025 REF 20260-7H

LDC
 Plans and specifications referenced in certificate no. **17625** issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
 www.LDC.com.au

Project: 19 March 2022 11:33:59 AM File Name: J:\98501022 - Construction Certificate Approval Plans\PKZ - WESTERN PRECINCT 7 SB - Precinct 7\176985-12-CC18701.dwg

B	ISSUE FOR SITE APPROVAL	DG	NDW	KE	PM	08/03/22			
A	ISSUE FOR CAA APPROVAL	DG	NDW	KE	PM	19/01/22			
	AMENDMENT	DES	DRN	CKD	APR	DATE			

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

CLIENT:


STATUS:
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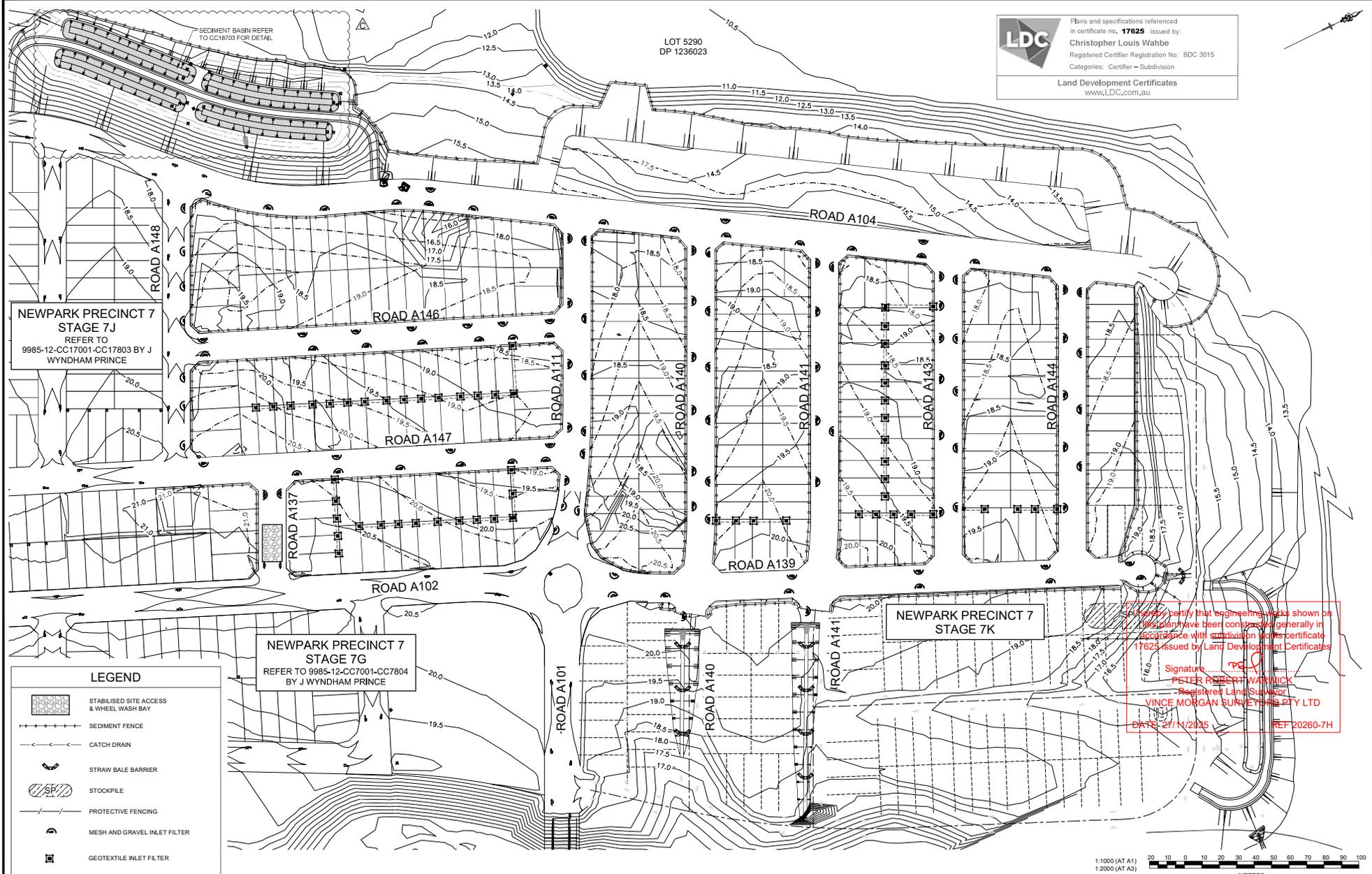
PROJECT No: **9985-12**
 SHEET No: **CC18701**
 PROJECT: **NEWPARK PRECINCT 7, STAGE 7H SOIL & WATER MANAGEMENT NOTES**

PROJECT No: **9985-12**
 SHEET No: **CC18701**
 PROJECT: **NEWPARK PRECINCT 7, STAGE 7H SOIL & WATER MANAGEMENT NOTES**

AZIMUTH: G.A.94	DATUM: A.H.D.	ORIGIN: SSM 1112	PLAN No: 9985-12-CC18701	B
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LDC Plans and specifications referenced in certificate no. **17625** issued by Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
 www.LDC.com.au

LOT 5290
 DP 1236023



**NEWPARK PRECINCT 7
 STAGE 7J**
 REFER TO
 9985-12-CC17001-CC17803 BY J
 WYNDHAM PRINCE

**NEWPARK PRECINCT 7
 STAGE 7G**
 REFER TO 9985-12-CC7001-CC7804
 BY J WYNDHAM PRINCE

**NEWPARK PRECINCT 7
 STAGE 7K**

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Signature: *Peter Robert Warkick*
PETER ROBERT WARKICK
 Registered Land Surveyor
VINCE MORGAN SURVEYS PTY LTD
 DATE: 27/11/2025 REF: 20260-7H

LEGEND

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

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

METRES

D	SEDIMENT BASIN LAYOUT UPDATED	DG	DG	KE	KE	18/08/22
C	STOCKPILE SEDIMENT FENCE ADDED	DG	EJ	KE	KE	01/06/22
B	ISSUE FOR SWC APPROVAL	DG	NDW	KE	PM	08/03/22
A	ISSUE FOR CMA APPROVAL	DG	NDW	KE	PM	18/01/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

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

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NEWPARK PRECINCT 7, STAGE 7H
 SOIL & WATER MANAGEMENT PLAN

PROJECT No: **9985-12**
 SHEET No: **CC18702**

PLAN No: **9985-12-CC18702**

18 August, 2022 3:37:00 PM File Name: J:\9985\DOC - Construction Certificate Approval Plans\PK12 - WESTERN PRECINCT\18 - PlanSet\7169985-12-CC18702.dwg

LEGEND

- +++++ SEDIMENT FENCE
- <--- CATCH DRAIN
- STRAW BALE BARRIER
- MESH AND GRAVEL INLET FILTER
- GEOTEXTILE INLET FILTER

1. Site Data Sheet

Site Name: NEWPARK PRECINCT 7 - SEDIMENT BASIN MS2
 Site Location: MARSDEN PARK
 Precinct: BLACKTOWN CITY COUNCIL
 Description of Site: SEDIMENT BASIN TO SUPPORT THE PRECINCT 7J & 7H SUBDIVISION CONSTRUCTION

Site area	Site	Remarks
7.24		
22.3		
22.3		

Soil analysis

% sand (fraction < 0.075 mm)	25	Soil texture should be assessed through mechanical dispersion only. Chapering agents (e.g. Calgon) should not be used.
% clay (fraction finer than 0.002 mm)	75	
Dispersion percentage	100.0	(e.g. enter 10 for dispersion of 10%)
% of particles not dispersible	0.0	See Section 6.3.3(a)
Soil Texture Group	0	See Section 6.3.3(c), (b) and (a)

Rainfall data

Design rainfall depth (30yr)	5	See Sections 6.3.4 (d) and (e)
Design rainfall depth (100yr)	8.5	See Sections 6.3.4 (d) and (e)
1-day, 1 year average rainfall at site	32.2	See Section 6.3.4 (h)
Diurnal intensity, 2 year, 6-hour storm	15.1	See IFO chart for the site

RUSLE Factors

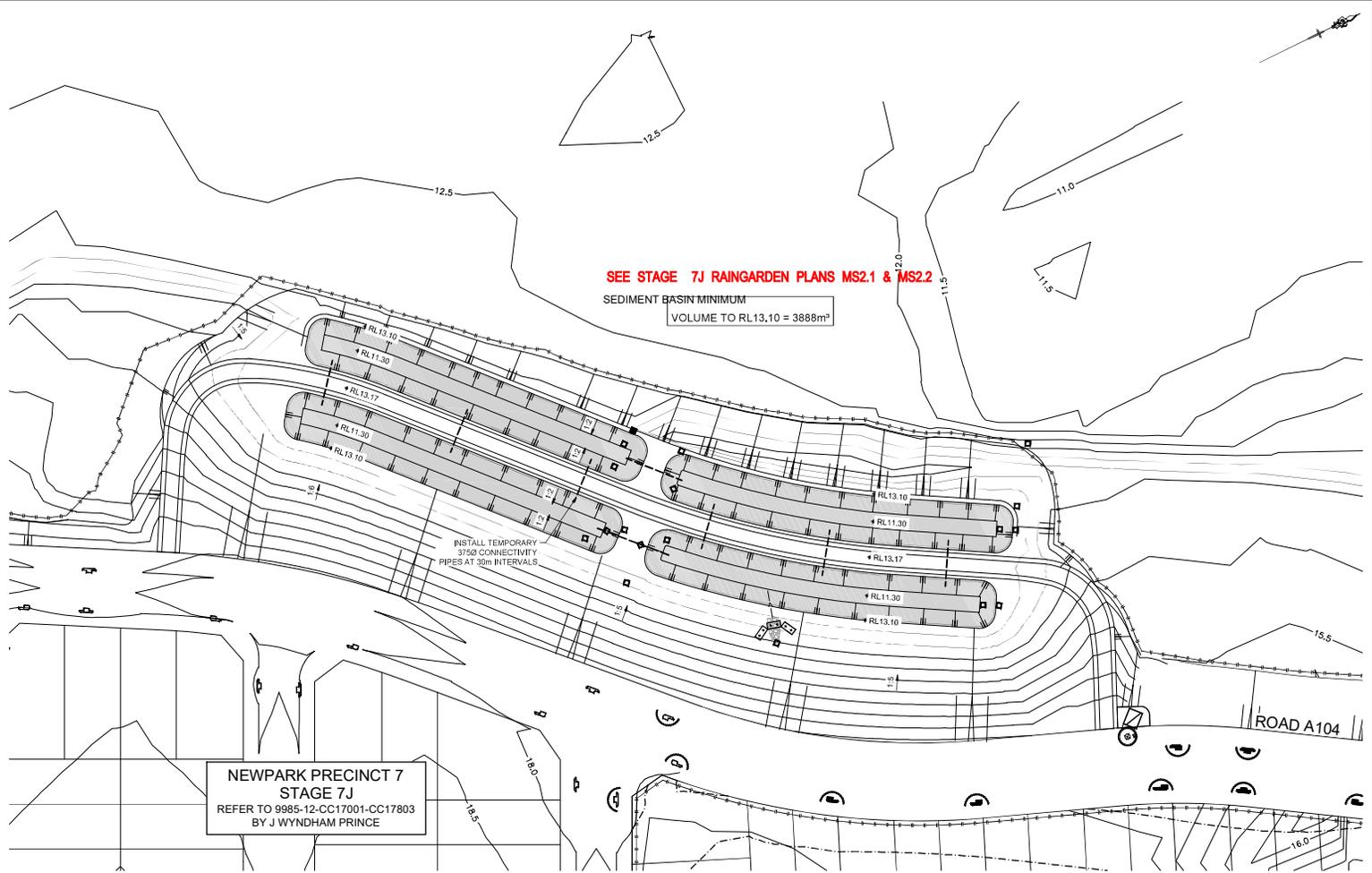
Rainfall erosivity (R-factor)	2550	Automatic calculation from above data
Soil erodibility (K-factor)	0.036	
Slope length (L)	16	
Slope gradient (%)	2	RUSLE data can be obtained from Appendixes A, B and C
Length gradient (LS-factor)	0.65	
Erosion control practice (P-factor)	1.3	1.3
Ground cover (C-factor)	1	1

Calculations

Soil loss (t/ha/yr)	72	
Soil Loss Class	1	See Section 4.4.2(b)
Soil loss (m ³ /ha/yr)	96	
Sediment basin storage volume, m ³	211	See Sections 6.3.4(i) and 6.3.5 (a)

Total Basin Volume

Site	C	R _{max} (mm)	Total catchment area (ha)	Settling zone volume (m ³)	Sediment storage volume (m ³)	Total basin volume (m ³)
7JH	0.50	32.2	22.3	3990.3	211	3801.3



**NEWPARK PRECINCT 7
 STAGE 7J
 REFER TO 9985-12-CC17001-CC17803
 BY J WYNDHAM PRINCE**

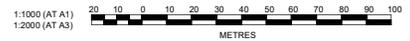
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

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

DATE 27/11/2025 REF 20260-7H

LDC Plans and specifications referenced in certificate no. **17625** issued by **Christopher Louis Wahbe** Registered Certifier Registration No: BDC 3015 Categories: Certifier - Subdivision

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Plotted: 18 August, 2022 3:52:25 PM File Name: J:\9985-12-CC17001-CC17803.dwg Project: 7JH9985-12-CC17001.dwg

REV	DESCRIPTION	DATE	BY	CHECKED
C	SEDIMENT BASIN LAYOUT UPDATED	18/08/22	DG	KE
B	ISSUE FOR SWC APPROVAL	18/03/22	DG	KE
A	ISSUE FOR CMA APPROVAL	18/01/22	DG	KE
	AMENDMENT		DES	DRN

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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

CLIENT: **WINTEN PROPERTY GROUP**

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PROJECT No: **9985-12**
 SHEET No: **CC18703**

NEWPARK PRECINCT 7, STAGE 7H
 SEDIMENT BASIN PLAN

PLAN No: **9985-12-CC18703**

PROJECT No: **9985-12**
 SHEET No: **CC18703**

DATE: 27/11/2025 REF: 20260-7H

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

NOTE: REFER TO CC18803 FOR LEGEND AND NOTES.

LOT 5290
DP 1236023

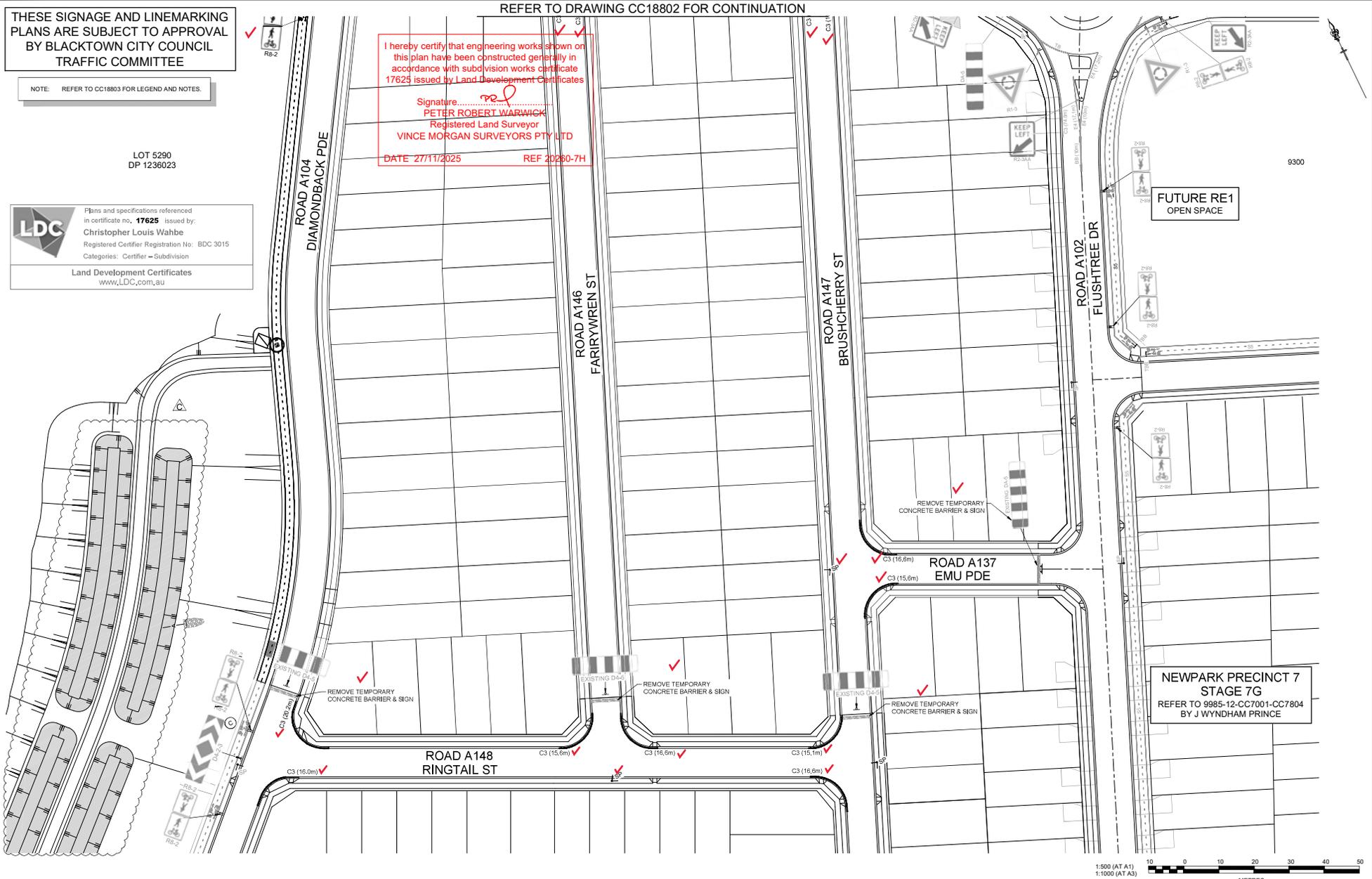
LDC Plans and specifications referenced in certificate no. 17625 issued by Christopher Louis Wahbe Registered Certifier Registration No: BDC 3015 Categories: Certifier - Subdivision
Land Development Certificates www.LDC.com.au

REFER TO DRAWING CC18802 FOR CONTINUATION

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

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

DATE: 27/11/2025 REF: 20250-7H



NEWPARK PRECINCT 7
STAGE 7G
REFER TO 9985-12-CC7001-CC7804
BY J WYNDHAM PRINCE

18 August 2022 3:53:44 PM File Name: J:\9985\DOC - Continuation Certificate Approval Plans\PK12 - WESTERN PRECINCT1818 - Precinct 7\9985-12-CC18801.dwg

C	SEDIMENT BASIN LAYOUT UPDATED	DG	DG	KE	KE	18/08/22
B	ISSUE FOR SWC APPROVAL	DS	NDW	KE	PM	18/03/22
A	ISSUE FOR CAA APPROVAL	DG	NDW	KE	PM	18/01/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

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NEWPARK PRECINCT 7, STAGE 7H
SIGNAGE & LINEMARKING PLAN
SHEET 1

PROJECT No: **9985-12**
SHEET No: **CC18801**

AZIMUTH: G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC18801 **C**

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

NOTE: REFER TO CC18803 FOR LEGEND AND NOTES.

LOT 5290
DP 1236023

REFER TO DRAWING CC18803 FOR CONTINUATION



REFER TO DRAWING CC18014 FOR CONTINUATION

NEWPARK
PRECINCT 7
FUTURE
DEVELOPMENT

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with subdivision works certificate 17625 issued by Land Development Certificates

Signature: *Peter Robert Warwick*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 27/11/2025 REF 20260-7H

LDC Plans and specifications referenced in certificate no. **17625** issued by:
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 Registered Certifier Registration No: BDC 3015
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REFER TO DRAWING CC18801 FOR CONTINUATION



Project: 9 March, 2022 11:24:00 AM File Name: J:\98550\CC - Construction Certificate Approval Plans\PC2 - WESTERN PRECINCTS\18 - Precinct 7\9855-12-CC18802.dwg

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A	ISSUE FOR CAA APPROVAL	DG	NDW	KE	PM	18/01/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

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NEWPARK
 PRECINCT 7, STAGE 7H
 SIGNAGE & LINEMARKING PLAN
 SHEET 2

PROJECT No: **9985-12**
 SHEET No: **CC18802**

AZIMUTH: G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC18802**

B

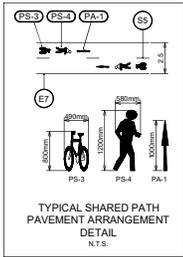
PAVEMENT MARKING SCHEDULE

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
TB	Give way line (Used with Signs)		Reflectorised white
TB1	Give way line (Used on right side of side)		Reflectorised white
TBB	Give way line on Path		Reflectorised white
S4	Bicycle lane continuous separation line for off-road bike path		Reflectorised white
SS	Bicycle lane separation line for off-road bike path (straight sections)		Reflectorised white
TBB	Give way line on Path		Reflectorised white
SP	Street post sign		LOT 5290 DP 1236023
C	Shared Path pavement arrangement. Refer to detail.		Reflectorised white
C3	Kerbside Linemarking for No Stopping Restrictions		Reflectorised yellow

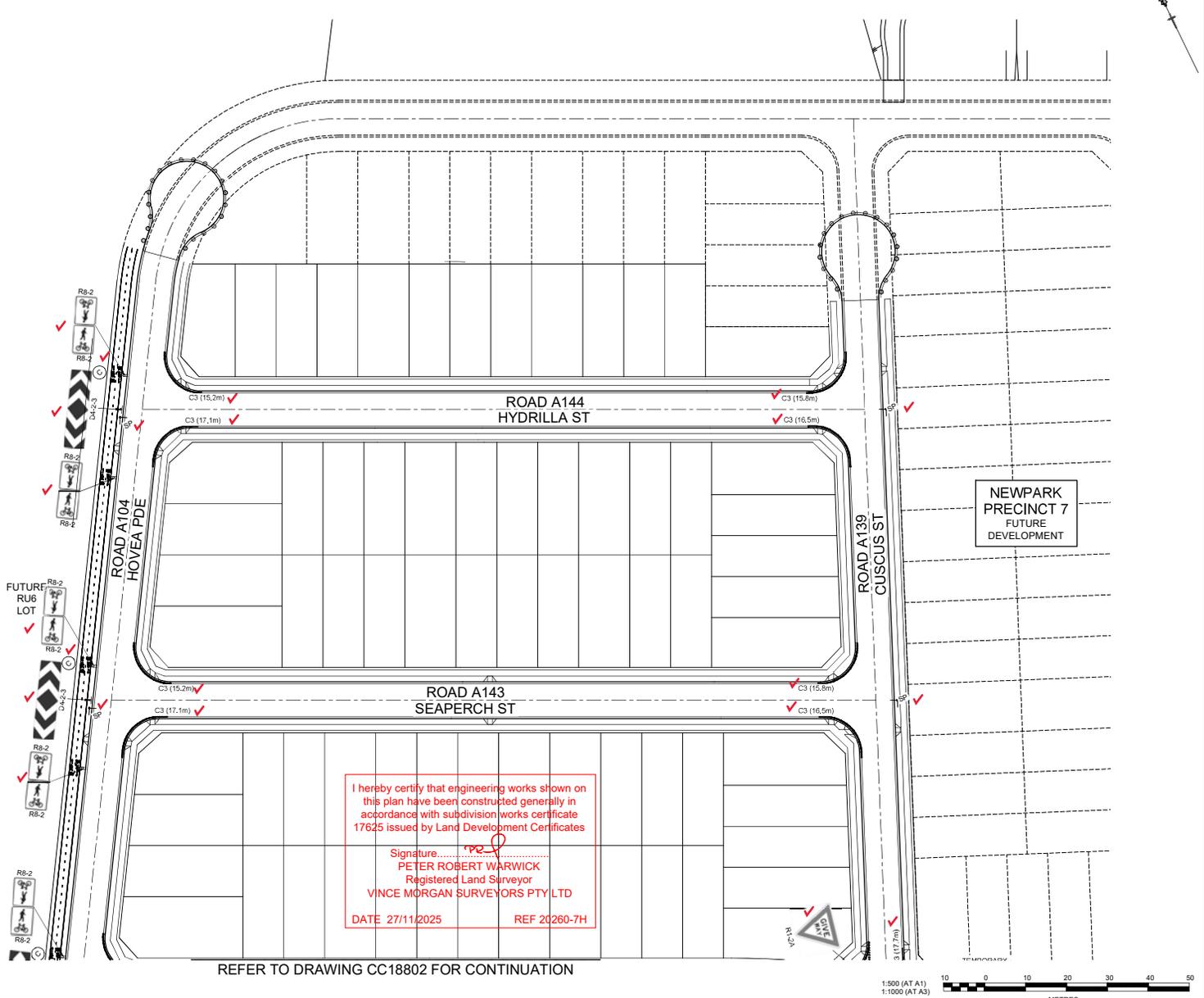
NOTES

- ALL PAVEMENT MARKINGS, CHEVRONS AND REFLECTORS ARE TO BE IN ACCORDANCE WITH AUSTRROADS GUIDE TO TRAFFIC MANAGEMENT PART 6 AND AUSTRALIAN STANDARDS AS1742-9 AND AS1743.
- 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 'B' 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 COUNCIL'S ENGINEER.
- 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 MANAGERS.
- ALL MEASUREMENTS ARE IN METRES UNLESS OTHERWISE SHOWN.

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



LDC Plans and specifications referenced in certificate no. **17625** issued by:
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Signature:
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD

DATE 27/11/2025 REF 20260-7H

REFER TO DRAWING CC18802 FOR CONTINUATION



Project: 9 March 2022 11:25:20 AM File Name: J:\9850\CC - Construction Certificate Approval Plans\PK2 - WESTERN PRECINCTS\18 - Precinct 7\1985-12-CC18803.dwg

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J. WYNDHAM PRINCE
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CLIENT: **WINTEN PROPERTY GROUP**

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NEWPARK PRECINCT 7, STAGE 7H
 SIGNAGE & LINEMARKING PLAN
 SHEET 3

AZIMUTH: G.A. 94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC18803

PROJECT No: **9985-12**
 SHEET No: **CC18803**

B