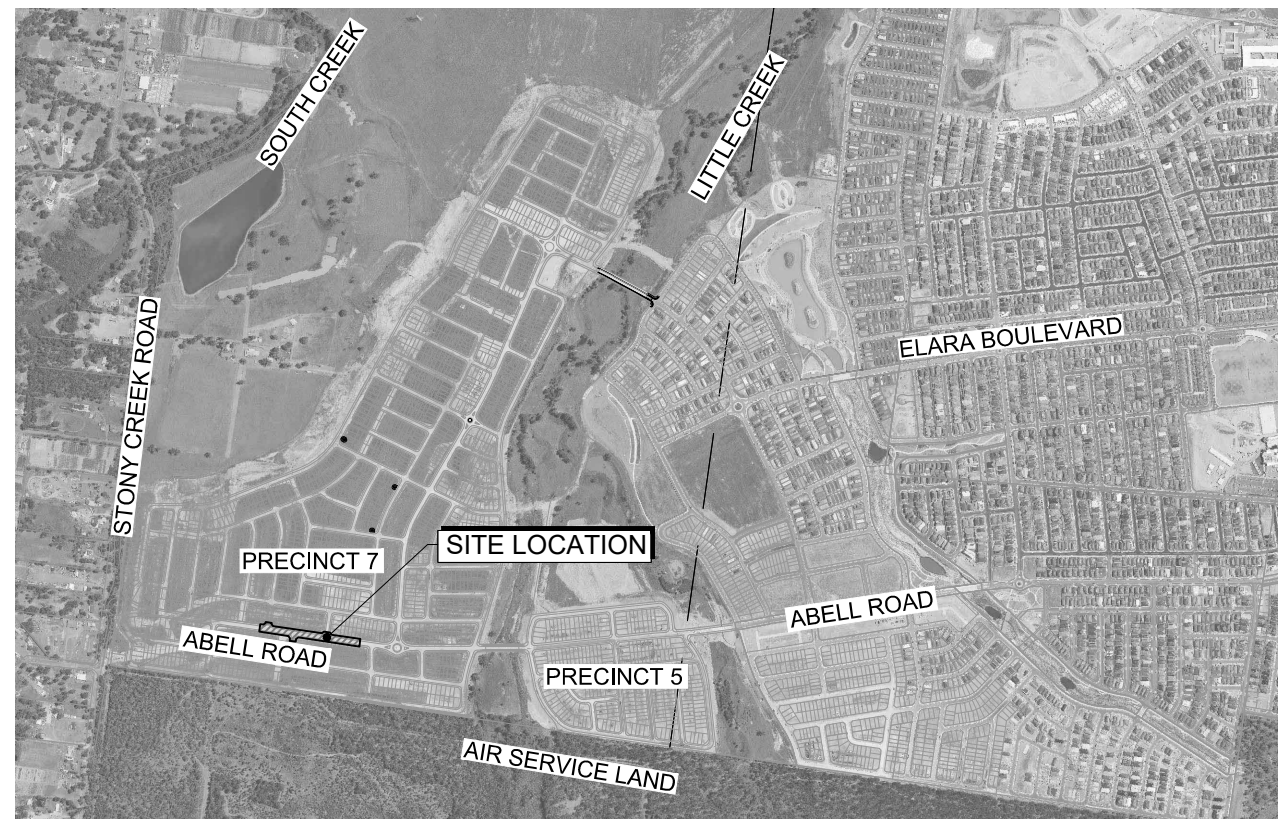




NEWPARK - PRECINCT 7 ABELL ROAD STAGE 2 SUBDIVISION WORKS CERTIFICATE

COLLECTOR ROAD AND DRAINAGE WORKS

COUNCIL REF: SPP-17-00046



LOCALITY SKETCH

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16532 issued by Land Development Certificates

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

DATE 30/08/2022 REF 20260-7C

LDC These plans are referred to in certificate no. 16532 approved by:
Christopher Louis Wahbe
 Registered Certifier
 Registration No: BDC 3015
 Categories: Certifier - Subdivision

Land Development Certificates
www.LDC.com.au

THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE APPROVED SUBDIVISION WORKS CERTIFICATE PLANS:
 PRECINCT 7, STAGE 7C
 REF: 998512CC10001 TO CC10803

ABELL ROAD TO BE CONSTRUCTED AT THE SAME TIME AS PRECINCT 7, STAGE 7C SUBDIVISION.

Plotted: 30 June, 2021 4:13:18 PM. File Name: J:\9985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\11 - Abell Road Precinct 7\9985-12-CC11001.dwg

REV	DESCRIPTION	DES	DRN	CKD	APR	DATE
B	ISSUE FOR SWC APPROVAL	DG/KE	DG	MP	MS	30/06/21
A	ISSUE FOR APPROVAL	DG/KE	NDW	MP	MS	17/05/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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

CLIENT:

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 ABELL ROAD STAGE 2
 COVER SHEET

PROJECT No: **9985-12**
 SHEET No: **CC11001**

PLAN No: **9985-12-CC11001**

PROJECT No: **9985-12**
 SHEET No: **CC11001**

PLAN No: **9985-12-CC11001**

Plotted: 30 June, 2021 4:05:02 PM. File Name: J:\9985DC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\11 - Abell Road Precinct 7C\9985-12-CC11002.dwg

DESCRIPTION	LEGEND		
	PROPOSED	EXISTING	FUTURE
EXTENT OF WORKS	////		
KERB & GUTTER	K&G		
ROLL KERB	RK		
PRAM RAMP			
DRAINAGE LINE, PIT & EASEMENT	05/05 Ø225		
DRAINAGE LINE & PIT	05/06 Ø600		
SUBSOIL	SS SS	SS SS	
HEADWALL))	
CONTOURS	- - - -46.0 - - -	- - - -47.0 - - -	
KERB RETURN No	KR		
ELECTRICITY, POWER POLE	- E - E - E - E -	- eE - eE - eE -	
TELECOM, BOX	- T - T - T - T -	- eT - eT - eT - eT -	
WATER, STOP VALVE, HYDRANT	- W - W - W - W -	- eW - eW - eW - eW -	
SEWER, MANHOLE	- S - S - S - S -	- eS - eS - eS - eS -	
GAS	- G - G - G - G -	- eG - eG - eG - eG -	
STREET NAME SIGNS	SP		
STATE SURVEY MARKS			
STAGE BOUNDARY	=====		
EXISTING NATIVE VEGETATION			
NATIVE VEGETATION RETENTION			
INDICATIVE DRIVEWAYS LOCATIONS			

GENERAL NOTES

- ALL WORKS ARE TO BE IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL'S ENGINEERING GUIDE FOR DEVELOPMENT & "WORKS SPECIFICATION - CIVIL (CURRENT VERSION)".
- SURVEY MARKS: -
 - SURVEY MARKS SHOWN THUS ▲ SHALL BE RETAINED AT ALL TIMES. WHERE RETENTION IS NOT POSSIBLE THE SUPERINTENDENT MUST BE NOTIFIED AND CONSENT RECEIVED PRIOR TO THEIR REMOVAL.
- THE CONTRACTOR SHALL LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST IF NECESSARY.
- THE CONTRACTOR SHALL NOT ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE WRITTEN PERMISSION OF THE OWNERS. TO BE PROVIDED PRIOR TO THE APPROVAL OF THE PLANS.
- THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO ADJOINING PROPERTIES.
- NO TREE SHALL BE FELLED, LOPPED OR REMOVED WITHOUT THE PRIOR APPROVAL OF COUNCIL'S ENGINEER.
- TREES TO BE RETAINED ON SITE SHALL BE PROTECTED BY SUITABLE STURDY APPROVED PROTECTIVE FENCING PRIOR TO COMMENCEMENT OF SITE WORKS.
- THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES, OUT-HOUSES, CAR BODIES AND DEBRIS ETC.
- FILLING IS TO BE FROM A NOMINATED SOURCE, OF SOUND CLEAN MATERIAL, FREE FROM LARGE ROCK, STUMPS, CONTAMINATED MATTER, INDUSTRIAL AND BUILDING WASTE, ORGANIC MATTER AND OTHER DEBRIS. PLACING OF FILLING ON THE PREPARED AREAS SHALL NOT COMMENCE UNTIL THE AUTHORITY TO DO SO HAS BEEN OBTAINED FROM THE COUNCIL.
- THE FILL MATERIAL THAT MAY BE RECEIVED AT THE DEVELOPMENT SITE ARE EXCAVATED NATURAL MATERIALS (VENM) AND EXCAVATED NATURAL MATERIAL (ENM) WITHIN THE MEANING OF THE PROTECTION OF THE ENVIRONMENTAL OPERATIONS ACT1997.
- SITE FILL AREAS: - THE CONTRACTOR SHALL TAKE LEVELS OF EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING FILL OPERATIONS.
- ALL SITE FILLING TO BE COMPACTED TO 95% STANDARD COMPACTION AND SHALL BE CONTROLLED BY A REGISTERED SOIL LABORATORY IN ACCORDANCE WITH COUNCIL'S "WORKS SPECIFICATION".
- ALL SITE REGRADING AREAS SHALL BE GRADED AT A MINIMUM 1% TO THE ENGINEER'S REQUIREMENTS.
- SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE DIRECTED BY THE SUPERINTENDENT.
- ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS.
- DIMENSIONS OF ANY DETAIL SHALL NOT BE SCALED - DIMENSIONS, IF IN DOUBT, SHALL BE VERIFIED BY THE SUPERINTENDENT.
- ALL CONSTRUCTION AND RESTORATION WORK ON COUNCIL'S ROAD AND FOOTPATH AREA ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE APPROVED DRAWINGS AND COUNCIL'S STANDARD SPECIFICATIONS.
- ALL WORKS TO BE IN ACCORDANCE WITH THE SALINITY MANAGEMENT PLAN BY GEOTECH TESTING PTY LTD, REF: 8552/1-AA DATED 12/10/2016.
- ALL STREET NAME POLES, LIGHT POLES AND BUS SHELTERS SHALL BE BLACK POWDER COATED IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL'S ENGINEERING GUIDE FOR DEVELOPMENT.
- CONCRETE PATH PAVING MUST NOT BE PLACED UNTIL 80% OF LOTS HAVE BEEN BUILT UPON OR UNTIL APPROVED IN WRITING BY COUNCIL.
- THE HOURS OF ANY OFFENSIVE NOISE-GENERATING DEVELOPMENT WORKS SHALL BE LIMITED TO BETWEEN 7.00am TO 6.00pm, MONDAYS TO FRIDAYS: 8.00am TO 1.00pm, SATURDAYS: AND NO SUCH WORK TO BE UNDERTAKEN AT ANY TIME ON SUNDAY OR PUBLIC HOLIDAYS.
- CONTRACTOR TO INSTALL STANDARD RESIDENTIAL LAYBACKS ON KERB AND GUTTER WHERE SHOWN ON PLANS TO BLACKTOWN CITY COUNCIL STANDARD DRAWING A(BS)102S.

- STORMWATER DESIGN CRITERIA:
 - ANNUAL EXCEEDANCE PROBABILITY (AEP):
 - 1% AEP MAJOR SYSTEM
 - 5% AEP MINOR SYSTEM (COMMERCIAL) AND INTERALLOTMENT DRAINAGE
 - 10% AEP MINOR SYSTEM
- PIPES TO BE INSTALLED TO TYPE HS2 SUPPORT IN ACCORDANCE WITH AS 3725 (1989) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 300mm LAYERS TO MINIMUM 100% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
- ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).
- CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- GRATES AND COVERS SHALL CONFORM TO AS 3996.
- AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- DRAINAGE LINES UNDER ROADS SHALL BE BACKFILLED WITH NON-COHESIVE SAND AND HAVE 3m (AS PER BCC GUIDE) OF SUBSOIL DRAIN WRAPPED IN APPROVED FILTER SOCK, DISCHARGING INTO DOWN STREAM PITS. FOR PIPELINES GREATER THAN 525Ø, SUBSOIL DRAIN SHALL BE PROVIDED ON BOTH SIDES OF THE TRENCH.
- ALL STORMWATER PIPES WITHIN ROADS TO BE REINFORCED CONCRETE PIPE (RRJ) CLASS 2 UNLESS NOTED OTHERWISE.
- DRAINAGE LINES ON PLANS ARE DIAGRAMMATIC ONLY AND PIPE CENTRELINES SHALL ENTER AND EXIT PITS AT THE CENTRE OF THE RESPECTIVE PIT WALLS.
- STEP IRONS REQUIRED WHERE THE PIT EXCEEDS 900mm IN DEPTH. REFER TO COUNCIL DRAWING A(BS)111S.
- PROVIDE A ROOF WATER OUTLET TO THE KERB FOR EACH LOT THAT DRAINS TO STREET.
- ALL SPECIAL PITS, PITS DEEPER THAN 2m OR NON STANDARD DRAINAGE PITS CAN BE EITHER CAST INSITU WITH STRUCTURAL DESIGN AND CERTIFICATION BY OTHERS. OR "AUS PIT" CUSTOM MADE PRECAST PIT OR SIMILAR APPROVED.
- 100YR FLOW PATHS TO BE FORMED AT TIME OF CONSTRUCTION.

SURFACE NOTES

- BATTER SLOPES ARE TYPICALLY 1v:5h UNLESS NOTED OTHERWISE.
- EXISTING SURFACE BASED ON BULK EARTHWORKS SURFACE REFER TO WORK AS EXECUTED SURVEY BY VINCE MORGAN SURVEYORS (REF: 20260-MASTER-140920.dxf).

- SURVEY SET OUT INFORMATION NOTES:**
- ALL SITE SET OUT AND CONTROL POINTS ARE TO BE CERTIFIED BY A REGISTERED SURVEYOR.
 - THE INFORMATION DETAILED ON THE CERTIFIED CONSTRUCTION CERTIFICATE PLANS TAKES PRECEDENCE OVER ALL ELECTRONIC INFORMATION PROVIDED. THE ORDER OF PRIORITY FOR USE OF ALL INFORMATION PROVIDED IS AS FOLLOWS:
 - CERTIFIED CONSTRUCTION CERTIFICATE DRAWINGS
 - 2D DRAFTING BASE (ELECTRONIC FILE)
 - 3D DTM (ELECTRONIC FILE)
 - ANY DISCREPANCY BETWEEN ANY OF THE INFORMATION CONTAINED WITHIN THESE FILES IS TO BE BROUGHT TO THE ATTENTION OF THE SUPERINTENDENT PRIOR TO CONSTRUCTION WHO WILL SEEK CLARIFICATION AND ISSUE INSTRUCTIONS ON THE APPROPRIATE COURSE OF ACTION.

CUSTOM MADE PRECAST PIT NOTES

- ALL DEEP PITS, NON-STANDARD PITS, OR PITS WITH EXTENDED CHAMBERS LARGER THAN COUNCIL'S STANDARD DRAWINGS ARE TO BE PRECAST BY AUS PITS. WHERE A PRECAST PIT BY AUS PITS IS SUBSTITUTED WITH AN ALTERNATIVE, SEPARATE APPROVAL WILL BE REQUIRED.
- PRECAST PITS ARE TO BE SPECIFICALLY MANUFACTURED FOR THE PROJECT.
- THE CONTRACTOR IS TO OBTAIN STRUCTURAL CERTIFICATION WHICH IS SIGNED BY A REGISTERED ENGINEER (STRUCTURAL) FOR EACH PRECAST PIT PRIOR TO PLACING.
- THE STRUCTURAL CERTIFICATION IS TO INCLUDE ANY ADDITIONAL PRECAST ELEMENTS.
- PRECAST PITS ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER AND COUNCIL SPECIFICATIONS.
- THE CONTRACTOR IS TO CONSULT DIRECTLY WITH THE MANUFACTURER PRIOR TO MODIFYING ANY PRECAST PITS.
- PRECAST PITS DAMAGED IN TRANSPORT AND INSTALLATION CANNOT BE USED.

HYDROLOGY NOTES:

- STORMWATER SYSTEM DESIGNED USING 12D DYNAMIC (ILSAX) SYSTEM.
- XP LINES ARE DUMMY PITS AND ARE USED TO MORE ACCURATELY DETERMINE APPROACH FLOWS AT UPSTREAM PITS AND SAG LOCATIONS.
- MAXIMUM FLOW WIDTHS OF 2.0m IN GUTTERS HAVE GENERALLY BEEN ADOPTED HOWEVER EXTENDED TO 2.5m IN SOME LOCATIONS TO REDUCE THE NUMBER OF PITS REQUIRED DUE TO FLAT ROAD GRADES.

UNEXPECTED FINDS - CONTAMINATION:

IN THE EVENT OF AN UNEXPECTED FINDS, ALL WORKS SHALL CEASE AND THE SITE FOREMAN SHALL CONTACT THE CERTIFYING AUTHORITY AND A SUITABLY QUALIFIED ENVIRONMENTAL CONSULTANT TO CONDUCT AN ASSESSMENT. APPROPRIATE MEASURES SHALL BE IMPLEMENTED ON THE BASIS OF THE ASSESSMENT INCLUDING BUT NOT LIMITED TO ISOLATION OF THE SITE, FURTHER INVESTIGATION AND ENVIRONMENTAL CONTROLS TO MINIMISE THE POTENTIAL MIGRATION OF CONTAMINANTS FROM THE IMPACTED AREA. AFFECTED AREAS CAN ONLY BE REOPENED SUBJECT TO A CLEARANCE OF THE LOCATION AND ISSUANCE OF A REPORT BY THE ENVIRONMENTAL CONSULTANT.

ANY SUSPECTED ASBESTOS CONTAINING SHOULD BE LEFT IN PLACE AND NOT DISTURBED. THE ENVIRONMENTAL CONSULTANT SHALL ORGANISE FOR FURTHER INVESTIGATION PURPOSES AND SUBSEQUENT REMOVAL BY AN APPROPRIATE LICENSED CONTRACTOR.

ANY UNEXPECTED FINDS ENCOUNTERED SHOULD BE LISTED ON A UFP REGISTER, WHICH SHOULD INCLUDE THE ACTION TAKEN AND THE STATUS OF THE UNEXPECTED FIND. PRIOR TO CLOSING OUT AN UNEXPECTED FIND IT WILL BE IMPORTANT TO ENSURE THE APPROPRIATE DOCUMENTATION IS OBTAINED SUCH AS PHOTOGRAPHS, THE UFP FORM, WASTE CLASSIFICATION LETTER(S) AND VALIDATION REPORT OR LETTER.

CIVIL PLAN INDEX		
PLAN NO.	PLAN NAME	REV
9985-12-CC11001	COVER SHEET	B
9985-12-CC11002	LEGEND NOTES & INDEX	B
9985-12-CC11003	OVERALL SITE PLAN	B
9985-12-CC11004	SETOUT PLAN	A
9985-12-CC11005	PAVEMENT PLAN	A
-	-	-
9985-12-CC11010	CUT & FILL PLAN	B
9985-12-CC11011	ENGINEERING PLAN & TYPICAL SECTIONS	B
-	-	-
9985-12-CC11101	ROAD LONGITUDINAL PLAN SHEET 1	B
9985-12-CC11102	ROAD LONGITUDINAL PLAN SHEET 2	B
9985-12-CC11201	ROAD CROSS SECTIONS SHEET 1	B
9985-12-CC11202	ROAD CROSS SECTIONS SHEET 2	B
-	-	-
9985-12-CC11301	KERB RETURN SHEET 1	A
9985-12-CC11302	KERB RETURN SHEET 2	B
-	-	-
9985-12-CC11400	OVERALL CATCHMENT PLAN	B
9985-12-CC11401	CATCHMENT PLAN	B
9985-12-CC11402	PIT SCHEDULE	B
9985-12-CC11403	DRAINAGE CALCULATIONS SHEET 1	B
9985-12-CC11404	DRAINAGE CALCULATIONS SHEET 2	B
-	-	-
-	-	-
9985-12-CC11421	DRAINAGE LONGITUDINAL SECTIONS SHEET 1	B
9985-12-CC11422	DRAINAGE LONGITUDINAL SECTIONS SHEET 2	B
9985-12-CC11423	DRAINAGE LONGITUDINAL SECTIONS SHEET 3	B
9985-12-CC11450	SPECIAL PIT DETAILS	B
-	-	-
9985-12-CC11701	SOIL & WATER MANAGEMENT NOTES	A
9985-12-CC11702	SOIL & WATER MANAGEMENT PLAN	B
-	-	-
9985-12-CC11801	SIGNAGE AND LINE MARKING	B

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16532 issued by Land Development Certificates

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

DATE 30/08/2022 REF 20260-7C

These plans are referred to in certificate no. 16532 approved by:

LDC
Christopher Louis Wahbe
 Registered Certifier
 Registration No: BDC 3015
 Categories: Certifier - Subdivision

Land Development Certificates
 www.LDC.com.au

UTILITIES SHOWN ARE DIAGRAMMATIC ONLY, CONTRACTORS ARE RESPONSIBLE TO LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES & STANDARDS.

NOTE: UTILITIES SHOWN MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS

THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE APPROVED SUBDIVISION WORKS CERTIFICATE PLANS:

PRECINCT 7, STAGE 7C
 REF: 998512CC10001 TO CC10803, AND
 PRECINCT 7, ABELL ROAD STAGE 1
 REF: 998512CC6001 TO CC6917

ABELL ROAD TO BE CONSTRUCTED AT THE SAME TIME AS PRECINCT 7, STAGE 7C SUBDIVISION.

REV	DESCRIPTION	DATE
B	NOTES AMENDED, INDEX UPDATED	30/06/21
A	ISSUE FOR APPROVAL	17/05/21
	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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PROJECT No: **9985-12**

SHEET No: **CC11002**

PLAN No: **9985-12-CC11002**

PROJECT NAME: **NEWPARK PRECINCT 7 ABELL ROAD STAGE 2 LEGEND NOTES & INDEX**

AZIMUTH: M.G.A.94	DATUM: A.H.D.	ORIGIN: SSM 1112	PLAN No: 9985-12-CC11002	B
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LEGEND

- PRECINCT 7 ABELL ROAD STAGE 2
- PRECINCT BOUNDARY
- PEDESTRIAN EVACUATION ROUTE
- EXISTING WATERCOURSE
- 40m OFFSET
- EXISTING NATIVE VEGETATION
- NATIVE VEGETATION RETENTION
- EXISTING SEWER, MANHOLE
- FUTURE SEWER

SECTION 7.11 RAINGARDEN & GPT CONTRIBUTIONS. PLAN No.21 ITEM MS3.1, MS3.2 AND MS3.3.
REFER TO DETAIL DESIGN BY J WYNDHAM PRINCE - REF.9985-12-DA3001 TO CC3528.

NEWPARK PRECINCT 7 STAGE 7B
REFER 9985-12-CC5001-5804
SPP-17-00046
BY J WYNDHAM PRINCE

NEWPARK PRECINCT 7 STAGE 7A
REFER 9985-12-CC2001-2803
SPP-17-00046
BY J WYNDHAM PRINCE

NEWPARK PRECINCT 7 STAGE 7C
REFER 9985-12-CC10001-10803
SPP-17-00046
BY J WYNDHAM PRINCE

NEWPARK PRECINCT 7
(SPP 17-10046)

SECTION 7.11 RAINGARDEN & GPT CONTRIBUTIONS. PLAN No.21 ITEM ML7.0 AND ML7.1. REFER TO DETAILED CONCEPT DESIGN BY J WYNDHAM PRINCE - REF.998512/SK60-SK69

SECTION 7.11 RAINGARDEN & GPT CONTRIBUTIONS. PLAN No.21 ITEM ML8.0 AND MP8.1 REFER TO J WYNDHAM PRINCE - REF.998511/CC500-CC525

ABELL ROAD STAGE 1
REFER TO PLANS BY J WYNDHAM PRINCE
REF.9985-12-CC6001-CC6917

BRIDGE CROSSING
REFER TO PLANS BY J WYNDHAM PRINCE
REF.9985-12-CC6001- CC6917
MOD-20-00045

SECTION 7.11 ROUNDABOUT
LOCAL TRAFFIC MANAGEMENT AS PER CP21,
CONTRIBUTIONS PLAN No.21. REFER TO DETAIL
DESIGN BY J WYNDHAM PRINCE -
REF.9985-12-CC3001 TO CC3900.

NEWPARK PRECINCT 5
REFER 998511/CC400-478
DA-17-01165
BY J WYNDHAM PRINCE

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

DATE 30/08/2022 REF 20260-7C

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Registered Certifier
Registration No: BDC 3015
Categories: Certifier - Subdivision
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1:2000 (AT A1)
1:4000 (AT A3)

B	INDEX UPDATED					
A	ISSUE FOR APPROVAL					
	AMENDMENT	DES	DRN	CKD	APR	DATE
		DG/KE	NDW	MP	MS	17/05/21

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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CLIENT:

WINTER PROPERTY GROUP

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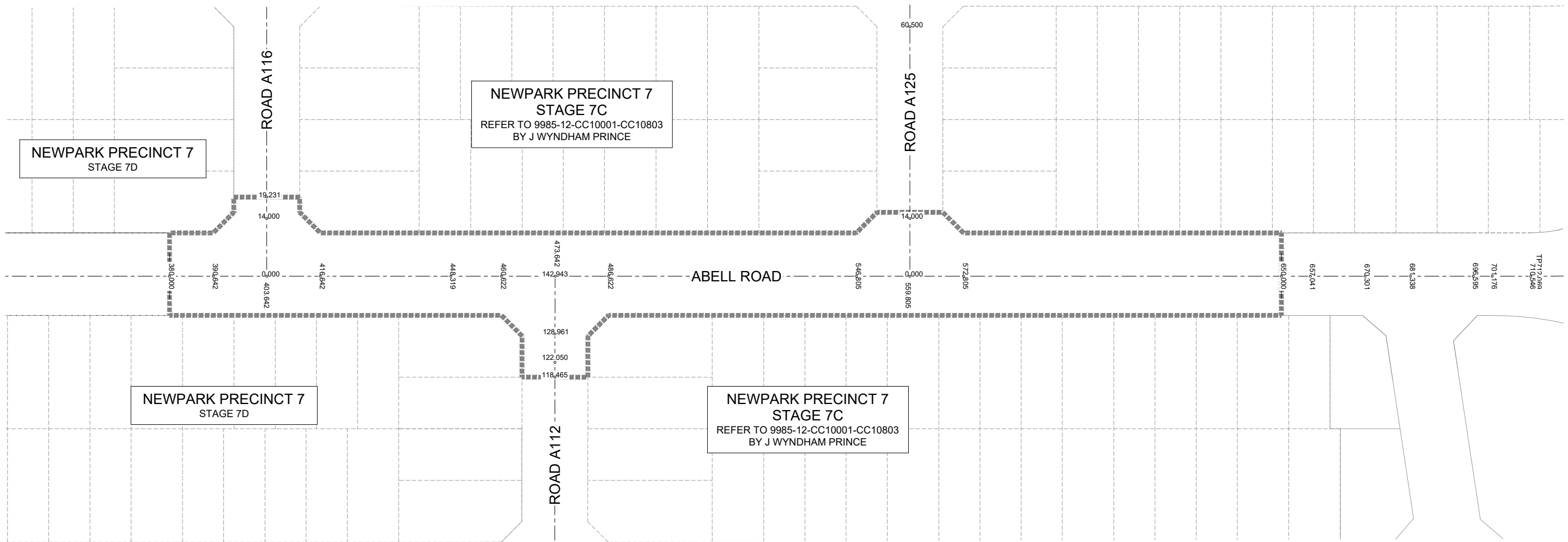
NEWPARK PRECINCT 7 ABELL ROAD STAGE 2 OVERALL SITE PLAN

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC11003

PROJECT No: **9985-12**
SHEET No: **CC11003**

B

Plotted: 30 June, 2021 4:06:15 PM. File Name: J:\9985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\11 - Abell Road Precinct 7\9985-12-CC11004.dwg



ABELL ROAD					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	294738.84	6268755.42	88°24'49.72"		
712.07	295443.25	6268651.23	88°24'49.72"		
749.47	295480.32	6268645.75		-500	74.81
786.87	295517.79	6268645.85	89°50'30.18"		
1082.23	295813.15	6268646.67	89°50'30.18"		
1107.62	295838.55	6268646.74		-500	50.77
1133	295863.82	6268649.38	84°01'28.02"		
1207.66	295938.07	6268657.15	84°01'28.02"		

NOTE: LIMIT OF WORKS CH379.75 TO CH650.00

Road A116					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295138.14	6268696.36	8°24'49.71"		
250.61	295174.81	6268944.27	8°24'49.71"		
271.44	295177.93	6268965.36		-80	41.65
292.27	295170.15	6268985.19	338°34'50.22"		
391.67	295133.84	6269077.74	338°34'50.22"		

NOTE: LIMIT OF WORKS CH0.00 TO CH19.231

Road A112			
CHAINAGE	EASTING	NORTHING	BEARING
0	295198.27	6268544.74	8°29'40.20"
142.94	295207.39	6268686.12	8°29'40.20"

NOTE: LIMIT OF WORKS CH118.465 TO CH142.943

Road A125			
CHAINAGE	EASTING	NORTHING	BEARING
0	295292.62	6268673.51	8°24'49.65"
73.5	295303.38	6268746.22	8°24'49.65"

NOTE: LIMIT OF WORKS CH0.00 TO CH14.00

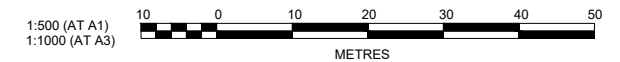
NOTES:
SSM & CONTROLS TO BE PROVIDED AT CONSTRUCTION STAGE BY VINCE MORGAN SURVEYORS.

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16532 issued by Land Development Certificates

Signature: *PR*
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 30/08/2022 REF 20260-7C

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A	ISSUE FOR APPROVAL					
	AMENDMENT	DES	DRN	CKD	APR	DATE

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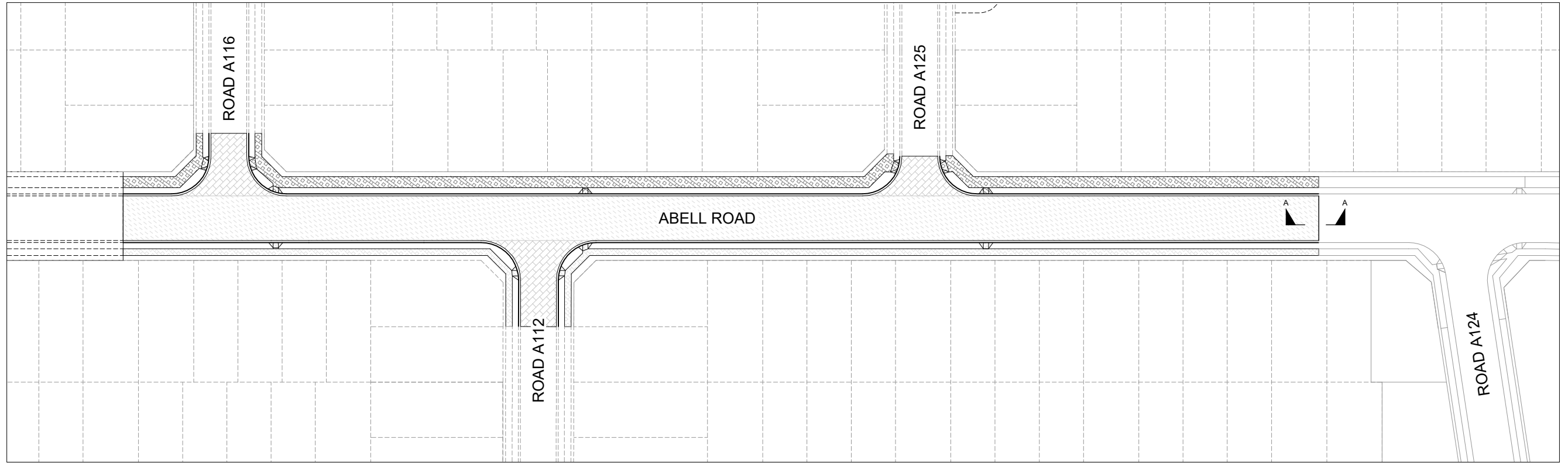
CLIENT:
WINTEN PROPERTY GROUP

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 ABELL ROAD STAGE 2 SETOUT PLAN

PROJECT No: **9985-12**
SHEET No: **CC11004**
PLAN No: **9985-12-CC11004**

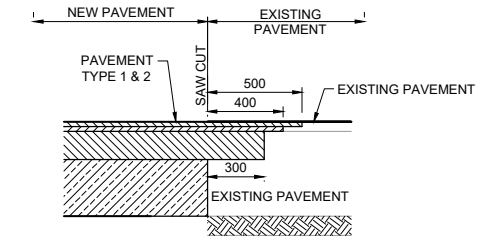
AZIMUTH: M.G.A.94	DATUM: A.H.D.	ORIGIN: SSM 1112	PLAN No: 9985-12-CC11004	A
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LEGEND	
PAVEMENT DESIGN (REFER TO REPORT BY GEOTECH TESTING PTY LTD (Ref: 8581/5-AA) DATED 12 MARCH 2020)	
<p>PAVEMENT TYPE 1 (ROAD TYPE 1 - COLLECTOR ROAD) ESA 1x10⁶ AC10 (mm) = 2x25 TACK SEAL BASE COURSE - DGB20 (mm) = 150 SUB-BASE COURSE - CRUSHED SANDSTONE (mm) = 300 TOTAL (mm) = 500</p>	<p>PAVEMENT TYPE 3 (FOOTPATH) CONCRETE 125mm TO BLACKTOWN CITY COUNCIL "PATH PAVING POLICY 2009"</p>
<p>PAVEMENT TYPE 2 (ROAD TYPE 4 -LOCAL ROADS) ESA 5x10⁵ AC10 (mm) = 2x25 TACK SEAL BASE COURSE - DGB20 (mm) = 150 SUB-BASE COURSE - CRUSHED SANDSTONE (mm) = 270 TOTAL (mm) = 470</p>	<p>PAVEMENT TYPE 4 (SHARED PATH) CONCRETE 125mm WITH SL82 MESH TO BLACKTOWN CITY COUNCIL "PATH PAVING POLICY 2009"</p>

PAVEMENT NOTES:

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



SECTION A-A
 INTERFACE BETWEEN NEW PAVEMENT AND EXISTING FLEXIBLE PAVEMENTS
 SCALE 1:20

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16532 issued by Land Development Certificates

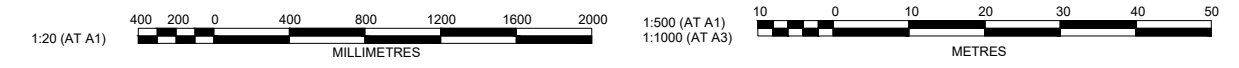
Signature:
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 30/08/2022 REF 20260-7C

These plans are referred to in certificate no. 16532 approved by:

Christopher Louis Wahbe
 Registered Certifier
 Registration No: BDC 3015
 Categories: Certifier - Subdivision

Land Development Certificates
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Plotted: 30 June, 2021 4:06:15 PM. File Name: J:\9985\DWG - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\11 - Abell Road Precinct 7\CC11005.dwg

NO.	DESCRIPTION	DES	DRN	CKD	APR	DATE
A	ISSUE FOR APPROVAL					17/05/21
	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:

WINTOP PROPERTY GROUP

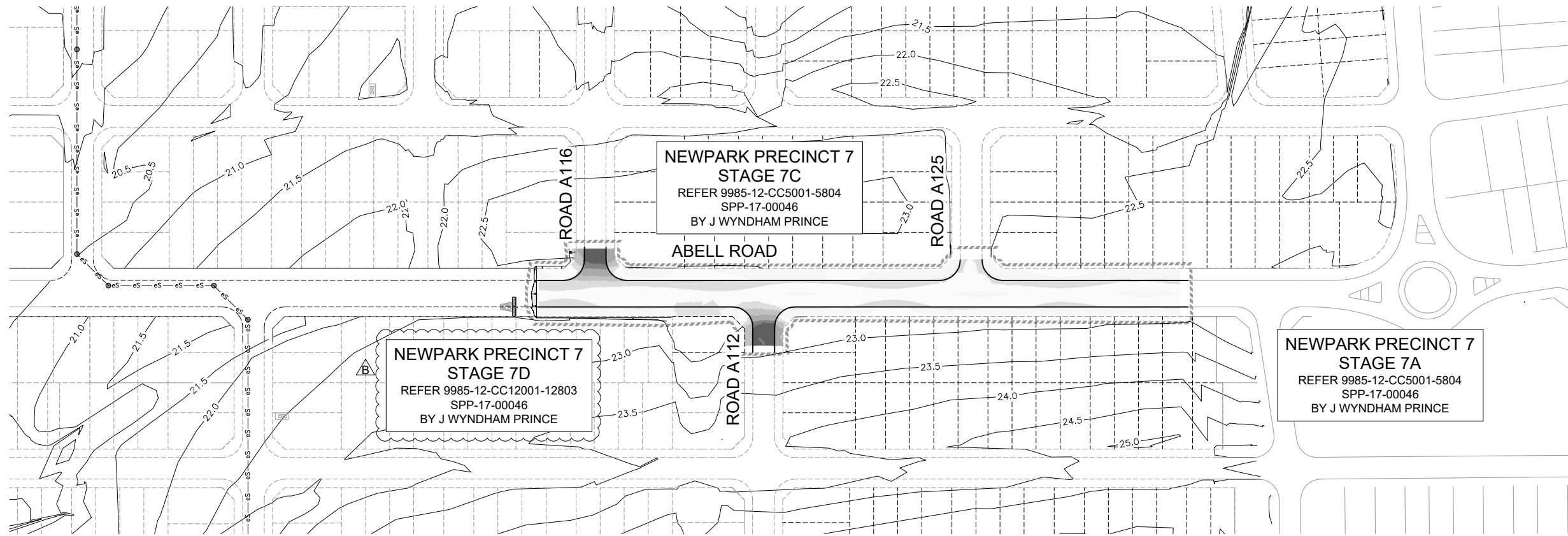
STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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NEWPARK
 PRECINCT 7 ABELL ROAD STAGE 2
 PAVEMENT PLAN

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC11005

PROJECT No: **9985-12**
 SHEET No: **CC11005**



LEGEND

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

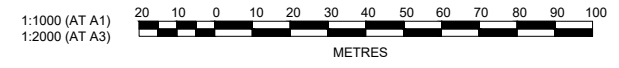
NOTE:
CUT FILL TAKEN FROM EXISTING & BOXING DESIGN SURFACE TO EXISTING SURFACE (NO BULKING FACTORS)

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16532 issued by Land Development Certificates

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

DATE 30/08/2022 REF 20260-7C

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Plotted: 30 June, 2021 4:19:47 PM. File Name: J:\9985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS11 - Abell Road Precinct 7C\9985-12-CC11010.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
B	DG/KE	DG	MP	MS	30/06/21
A	DG	NDW	MP	MS	17/05/21

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:

W WINTEN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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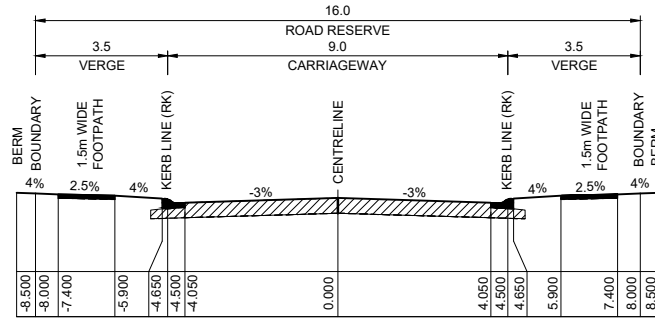
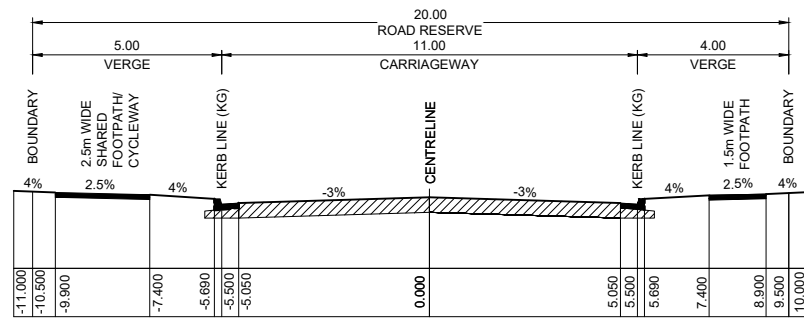
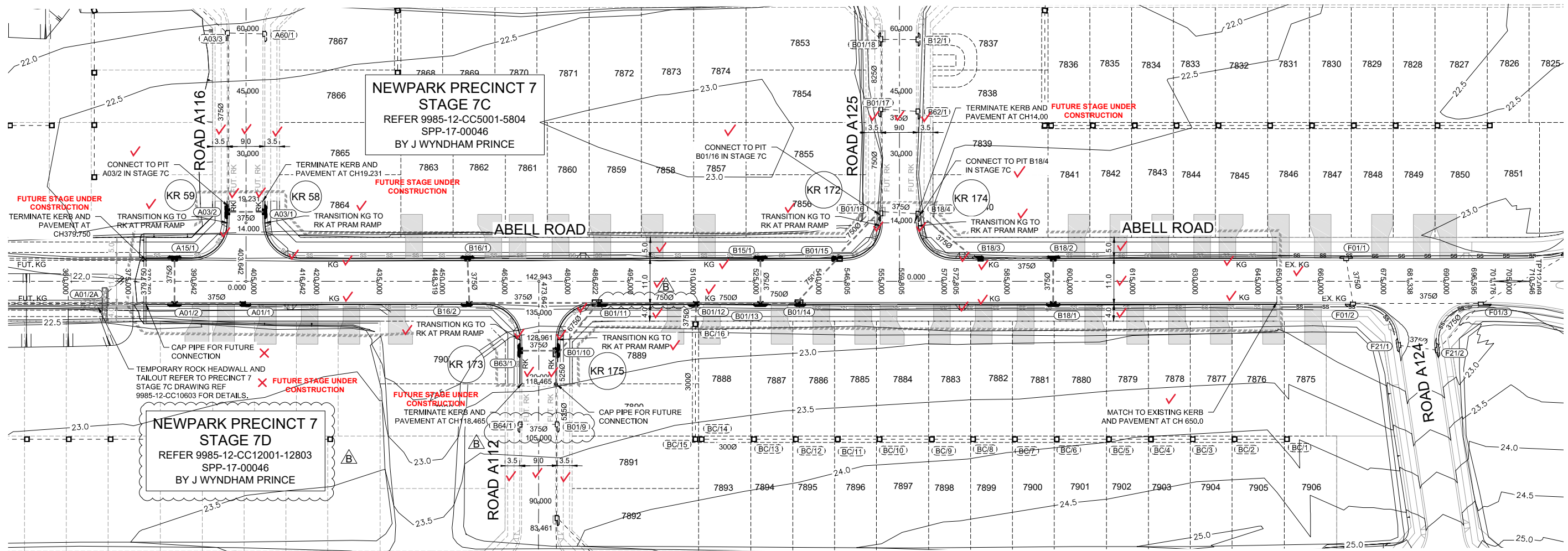
NEWPARK PRECINCT 7 ABELL ROAD STAGE 2
 CUT & FILL PLAN

PROJECT No: **9985-12**
 SHEET No: **CC11010**

PLAN No: **9985-12-CC11010**

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

B



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Christopher Louis Wahbe
 Registered Certifier
 Registration No: BDC 3015
 Categories: Certifier - Subdivision
Land Development Certificates
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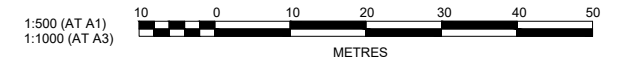
NOTE:
 STANDARD RESIDENTIAL LAYBACKS ARE TO BE CUT INTO THE KERB ON GUTTER. REFER TO BLACKTOWN CITY COUNCIL STANDARD DRAWING A(BS) 101M AND A(BS)102S FOR DETAILS.

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16532 issued by Land Development Certificates

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

DATE 30/08/2022 REF 20260-7C

REFER TO SIGNAGE AND LINEMARKING PLAN 9985-12-CC6801 FOR LOCATION OF CONCRETE BARRIERS AND STREET SIGNS.



Plotted: 30 June, 2021 4:24:07 PM. File Name: J:\9985\ED\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\11 - Abell Road Precinct 7C\9985-12-CC11011.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
B	DG/KE	DG	MP	MS	30/06/21
A	DG	NDW	MP	MS	17/05/21

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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STATUS:
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PROJECT No:
9985-12

SHEET No:
CC11011

PLAN No:
9985-12-CC11011

PROJECT:
NEWPARK PRECINCT 7 ABELL ROAD STAGE 2
 ENGINEERING PLAN & TYPICAL SECTIONS

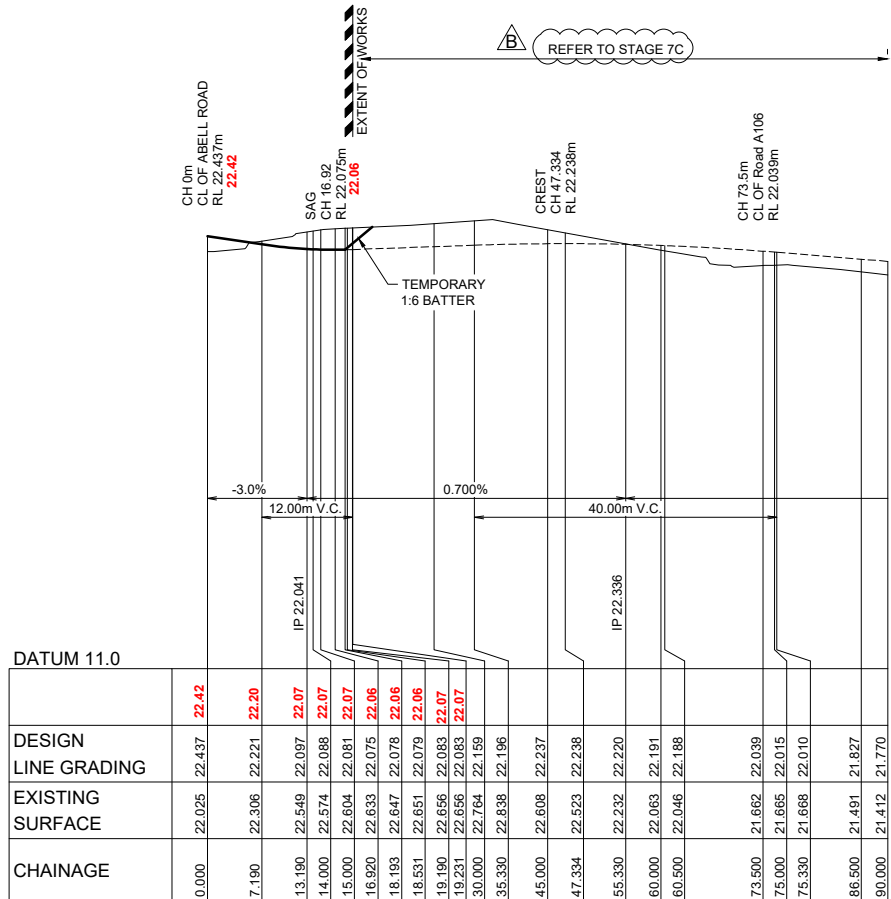
AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112

PROJECT No:
9985-12

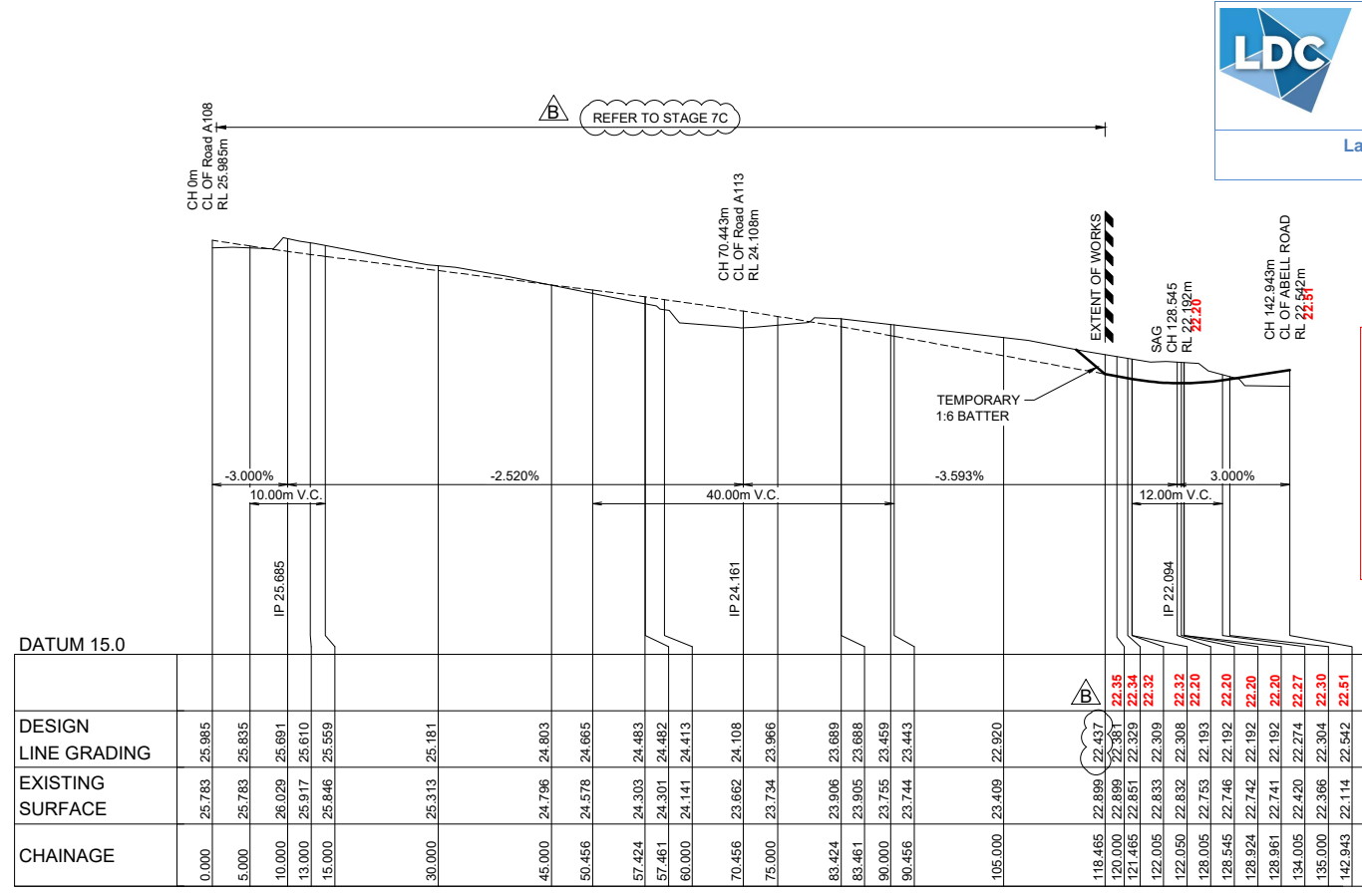
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CC11011

PLAN No:
9985-12-CC11011

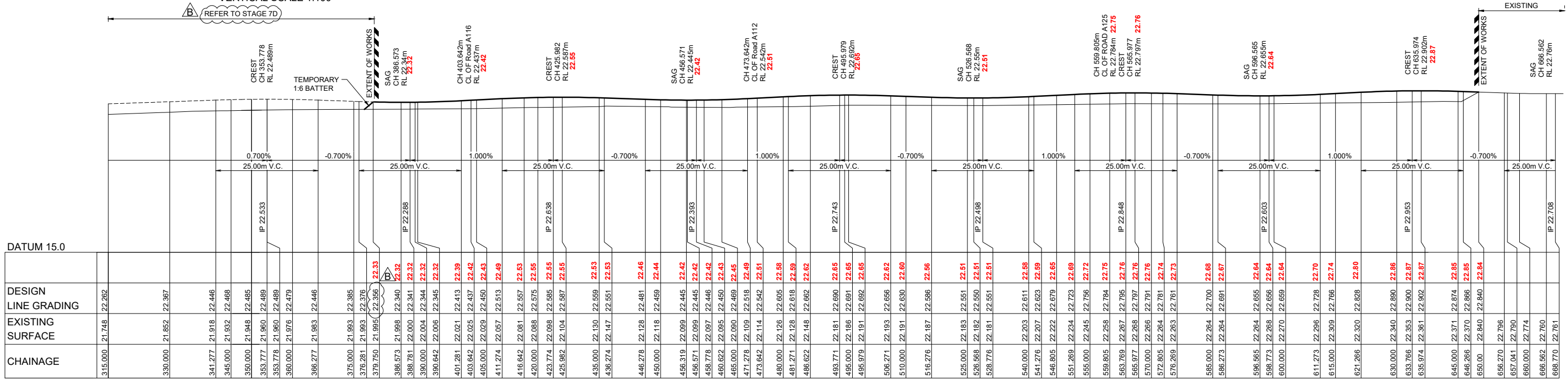
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16532 issued by Land Development Certificates
Signature: *[Signature]*
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 30/08/2022 REF 20260-7C



LONGITUDINAL SECTION Road A116
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



LONGITUDINAL SECTION Road A112
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



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



Plotted: 30 June, 2021 4:05:58 PM. File Name: J:\9985\11 - Abell Road Precinct 7\9985-12-CC11101.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
B	DG	DG	MP	MS	30/06/21
A	DG	NDW	MP	MS	17/05/21

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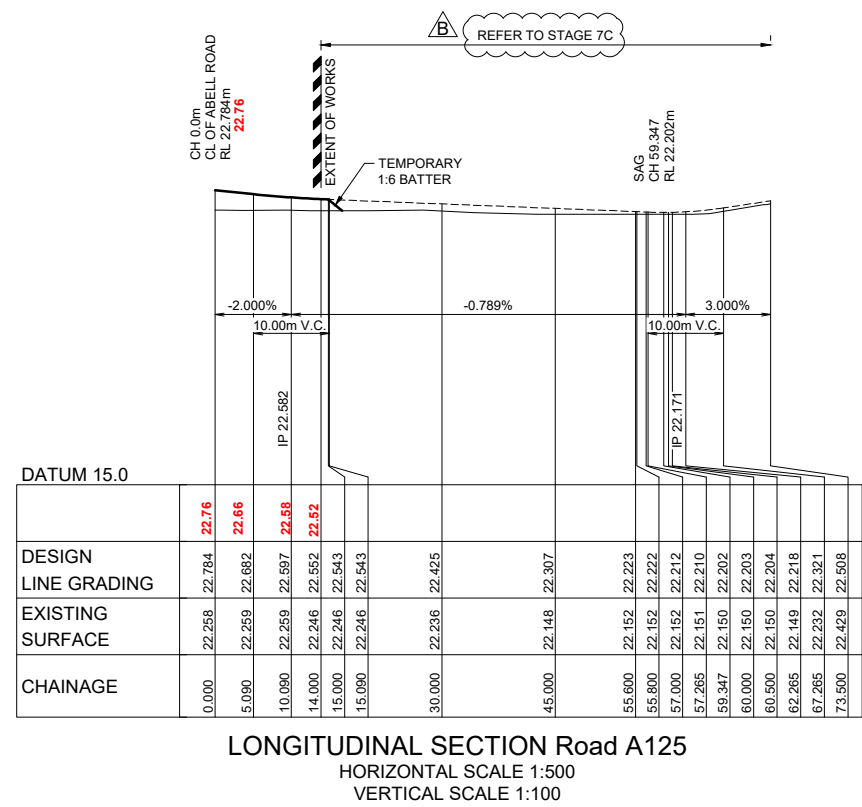
STATUS:
ISSUE FOR CONSTRUCTION APPROVAL
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NEWPARK
PRECINCT 7 ABELL ROAD STAGE 2
ROAD LONGITUDINAL PLAN
SHEET 1

PROJECT No:
9985-12
SHEET No:
CC11101
PLAN No:
9985-12-CC11101

B

Plotted: 30 June, 2021 4:07:05 PM. File Name: J:\9985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\11 - Abell Road Precinct 7C\9985-12-CC11102.dwg



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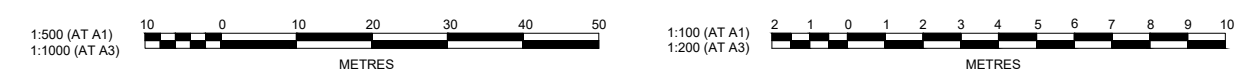
Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 30/08/2022 REF 20260-7C

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Christopher Louis Wahbe
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 Registration No: BDC 3015
 Categories: Certifier - Subdivision

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AMENDMENT	DES	DRN	CKD	APR	DATE
B	DG	DG	MP	MS	30/06/21
A	DG	NDW	MP	MS	17/05/21

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

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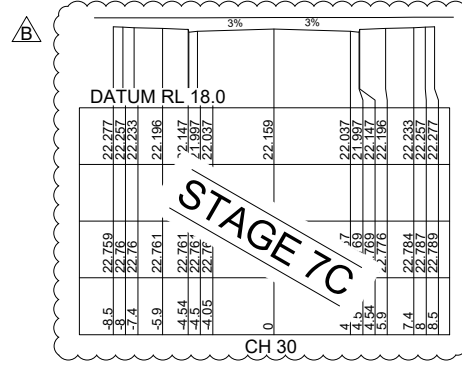
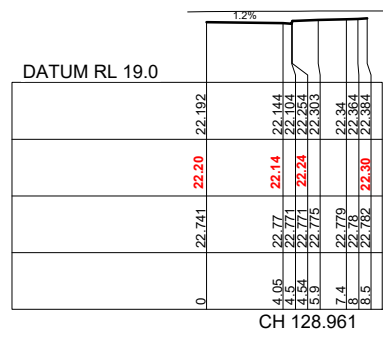
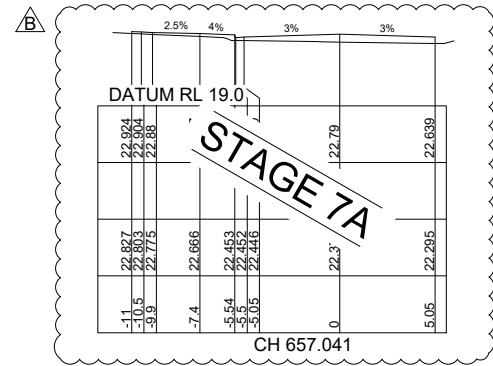
NEWPARK
 PRECINCT 7 ABELL ROAD STAGE 2
 ROAD LONGITUDINAL PLAN
 SHEET 2

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC11102

PROJECT No: **9985-12**
 SHEET No: **CC11102**

B

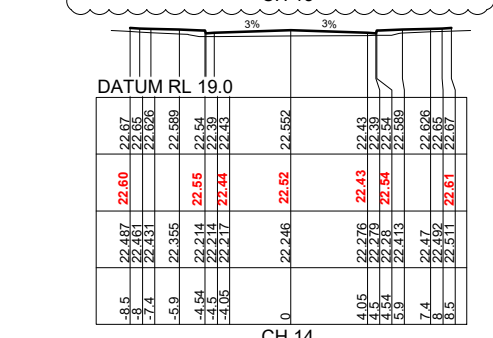
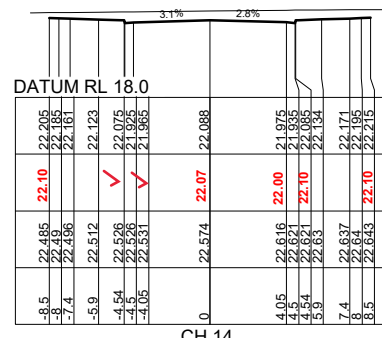
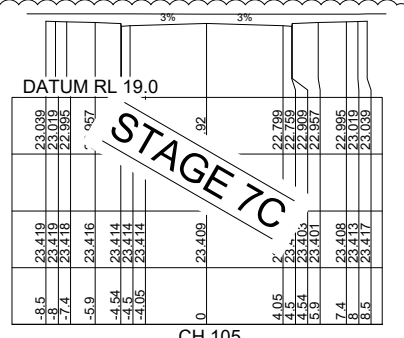
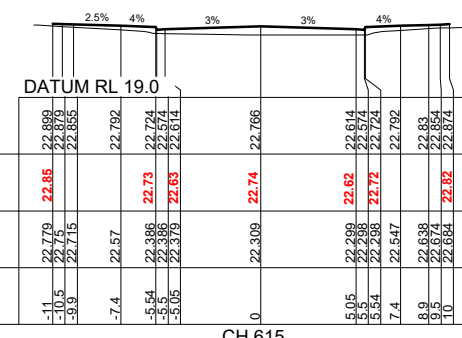
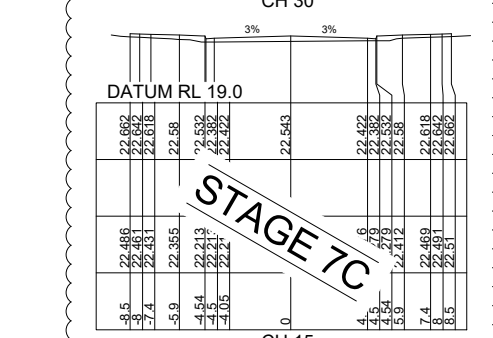
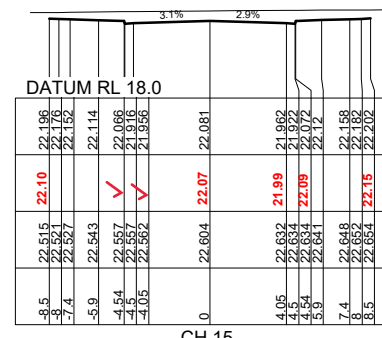
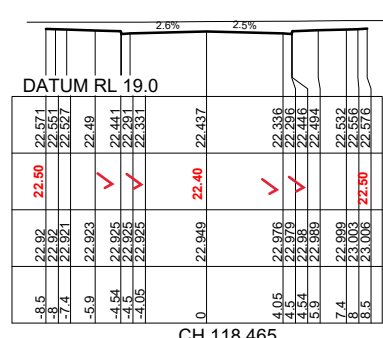
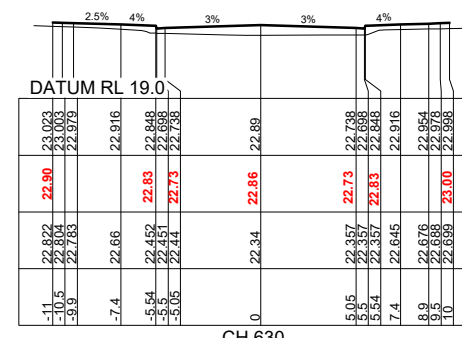
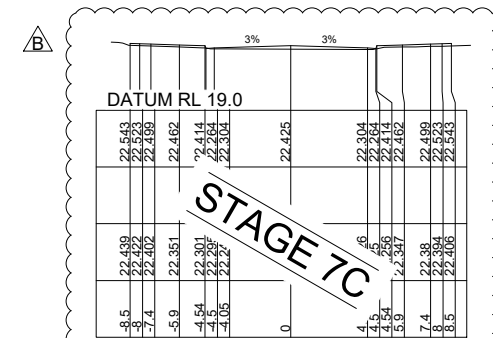
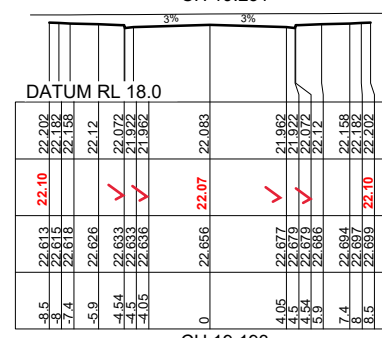
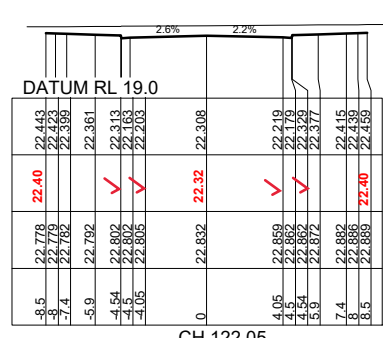
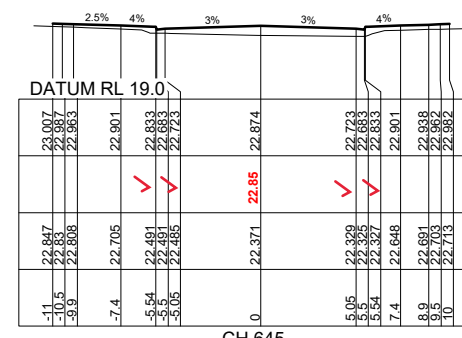
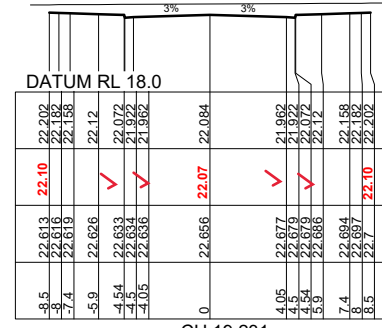
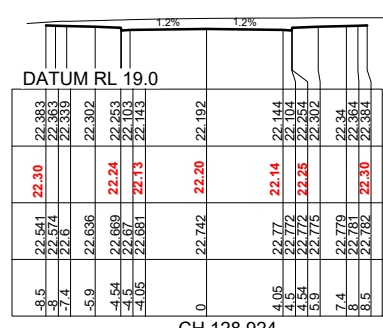
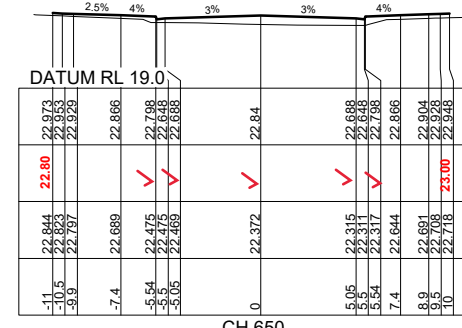
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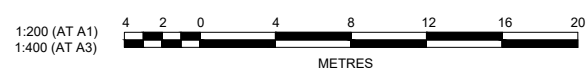
REFER TO NEWPARK PRECINCT 7C BY J WYNDHAM PRINCE, REF. 9985-12-CC10011 TO CC10014 FOR LOT REGRADE

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

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Signature: *[Signature]*
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 30/08/2022 REF 20260-7C



	DESIGN SURFACE LEVEL	EXISTING SURFACE LEVEL	OFFSET
-11.5	22.85	22.779	-11.5
-10.5	22.85	22.715	-10.5
-9.9	22.85	22.715	-9.9
-7.4	22.74	22.57	-7.4
-5.4	22.73	22.386	-5.4
-5.54	22.63	22.378	-5.54
-3.05	22.63	22.378	-3.05
0	22.74	22.308	0
5.05	22.62	22.289	5.05
5.54	22.52	22.288	5.54
5.54	22.52	22.288	5.54
7.4	22.79	22.547	7.4
8.9	22.83	22.638	8.9
10	22.87	22.664	10

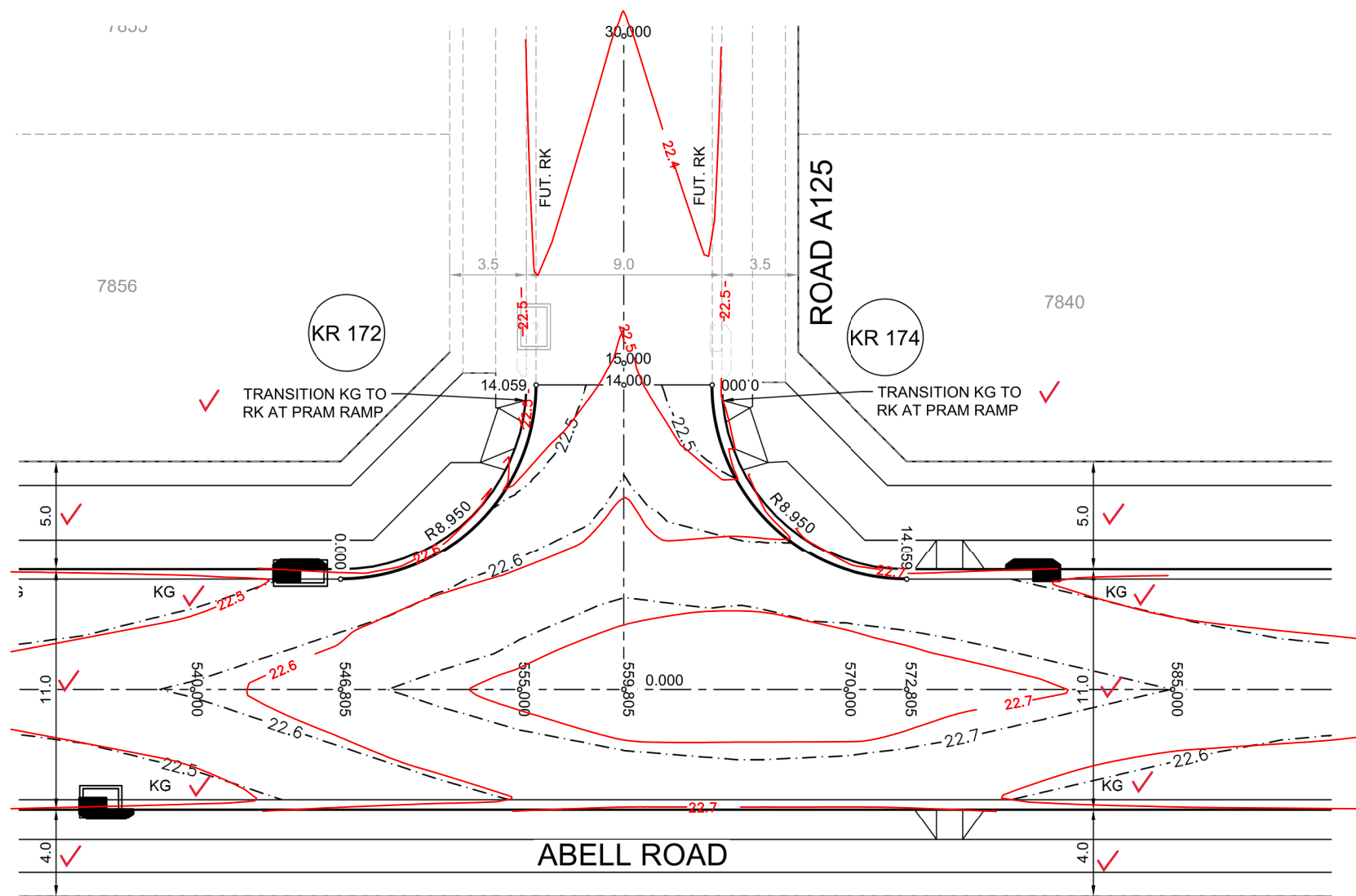


REVISION	DESCRIPTION	DATE
B	CROSS SECTIONS UPDATED	30/06/21
A	ISSUE FOR APPROVAL	17/05/21
	AMENDMENT	

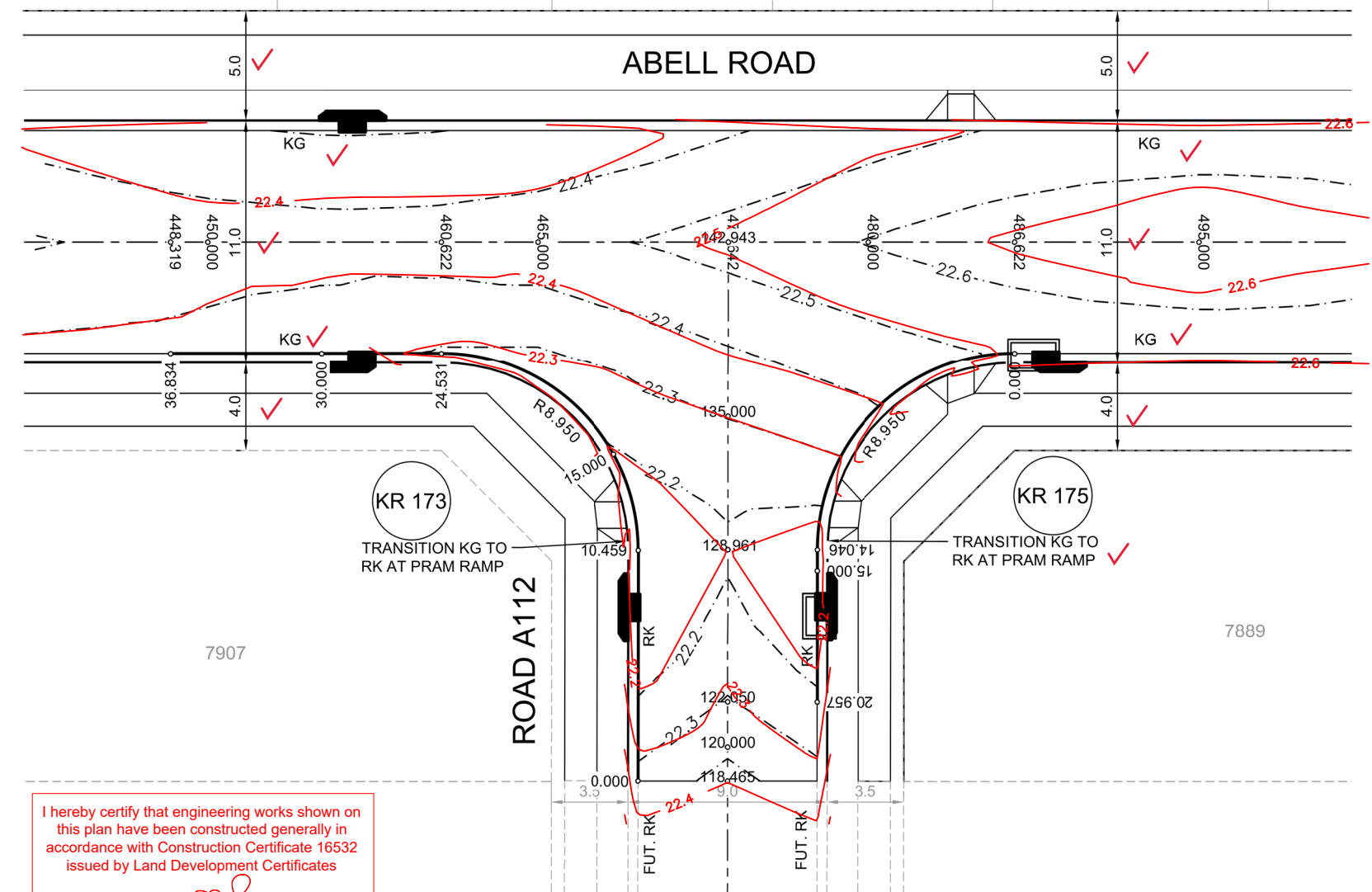
J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT



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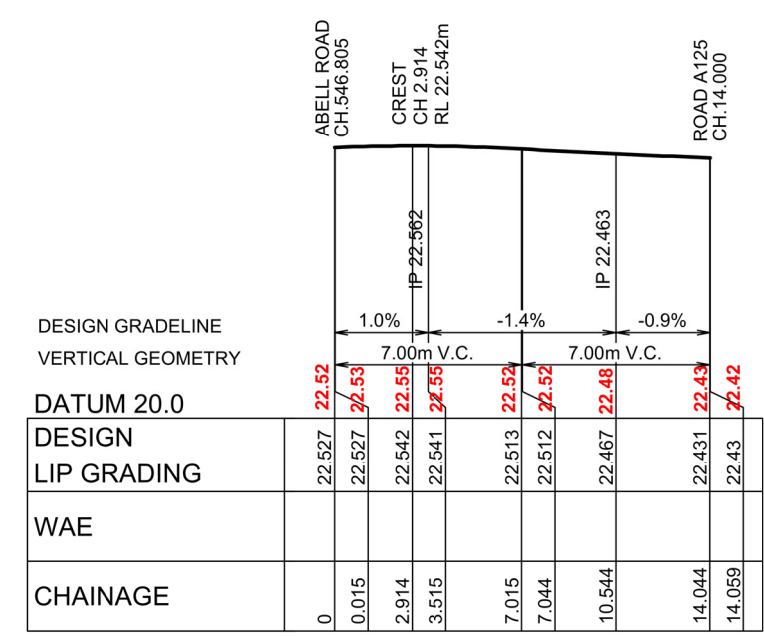
PLAN
SCALE 1:200



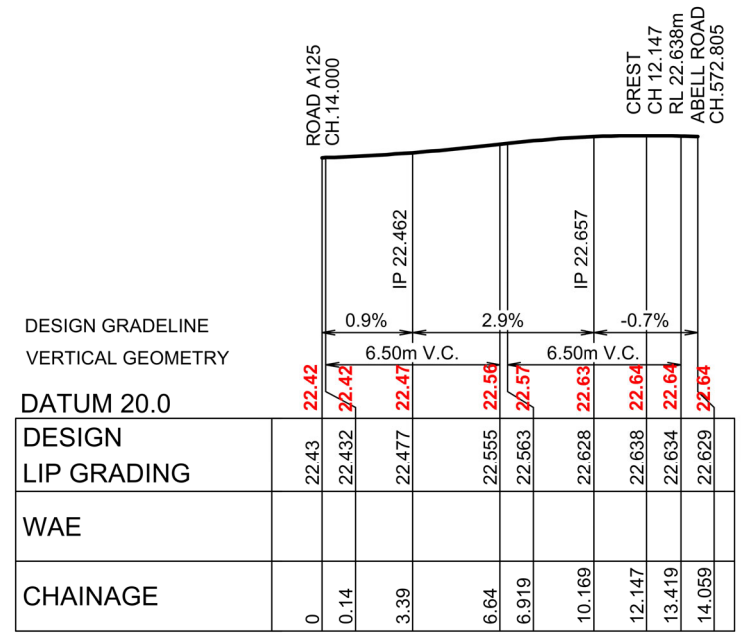
PLAN
SCALE 1:200

DESIGN LEVEL AND SETOUT ARE TO LIP OF GUTTER

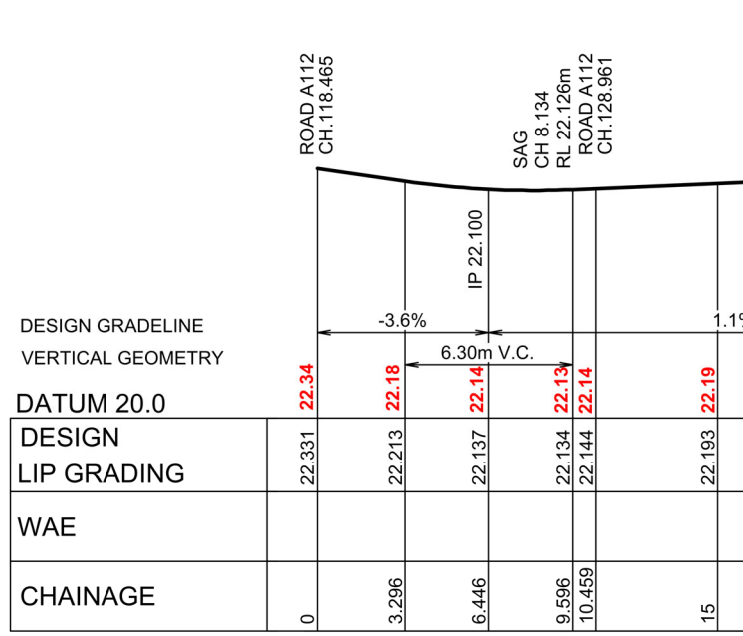
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 Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/08/2022 REF 20260-7C



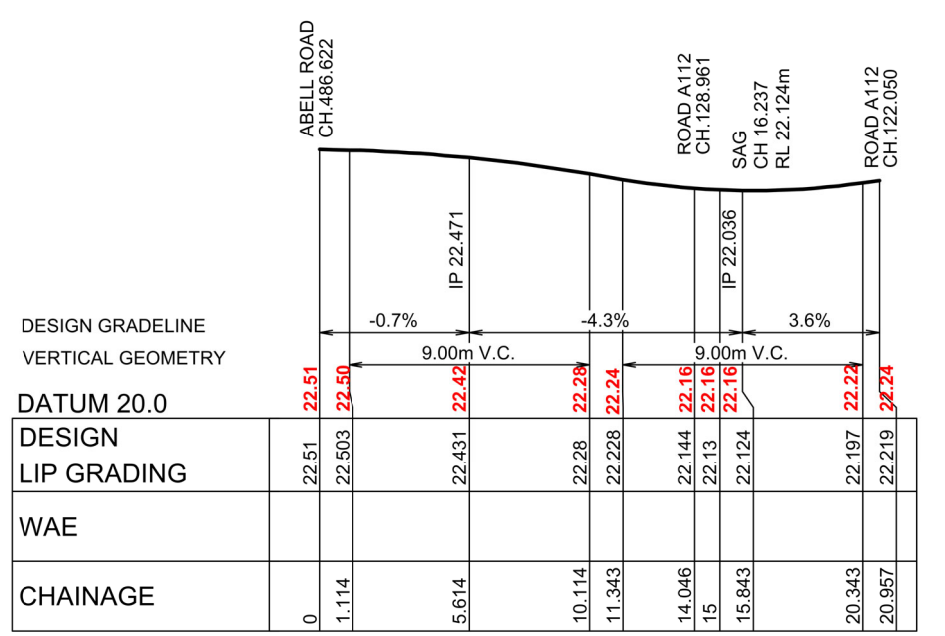
KR 172
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



KR 174
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



KR 173
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



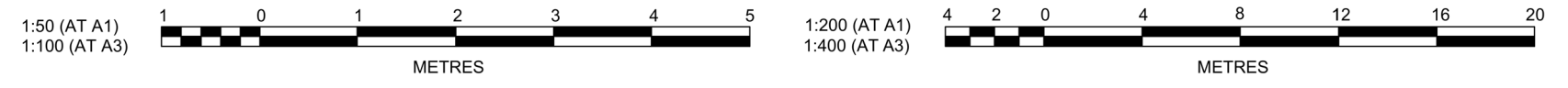
KR 175
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295280.5	6268680.41	98°24'49.72"		
7.03	295289.35	6268679.1		-8.95	14.06
14.06	295290.66	6268687.95	8°24'49.65"		

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295298.68	6268686.76	188°24'49.65"		
7.03	295297.37	6268677.91		-8.95	14.06
14.06	295306.22	6268676.6	98°24'49.72"		

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295199.77	6268662.5	8°29'40.20"		
10.46	295201.31	6268672.85	8°29'40.20"		
17.49	295202.63	6268681.71		-8.95	14.07
24.53	295193.77	6268683.03	278°24'49.72"		
36.83	295181.6	6268684.83	278°24'49.72"		

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295219.49	6268679.22	278°24'49.72"		
7.02	295210.65	6268680.53		-8.95	14.05
14.05	295209.33	6268671.69	188°29'40.20"		
20.96	295208.31	6268664.85	188°29'40.20"		



Plotted: 30 June, 2021 4:08:30 PM File Name: J:\985D\CC - Construction Certificate Approval Plans\PK12\WESTERN PRECINCTS11 - Abell Road Precinct 7\985-12-CC11301.dwg

A	ISSUE FOR APPROVAL	DG/KE	NDW	MP	MS	17/05/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

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

CLIENT:
 WINTER PROPERTY GROUP

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

NEWPARK PRECINCT 7 ABELL ROAD STAGE 2
 KERB RETURN SHEET 1
 PROJECT No: **9985-12**
 SHEET No: **CC11301**
 AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC11301**

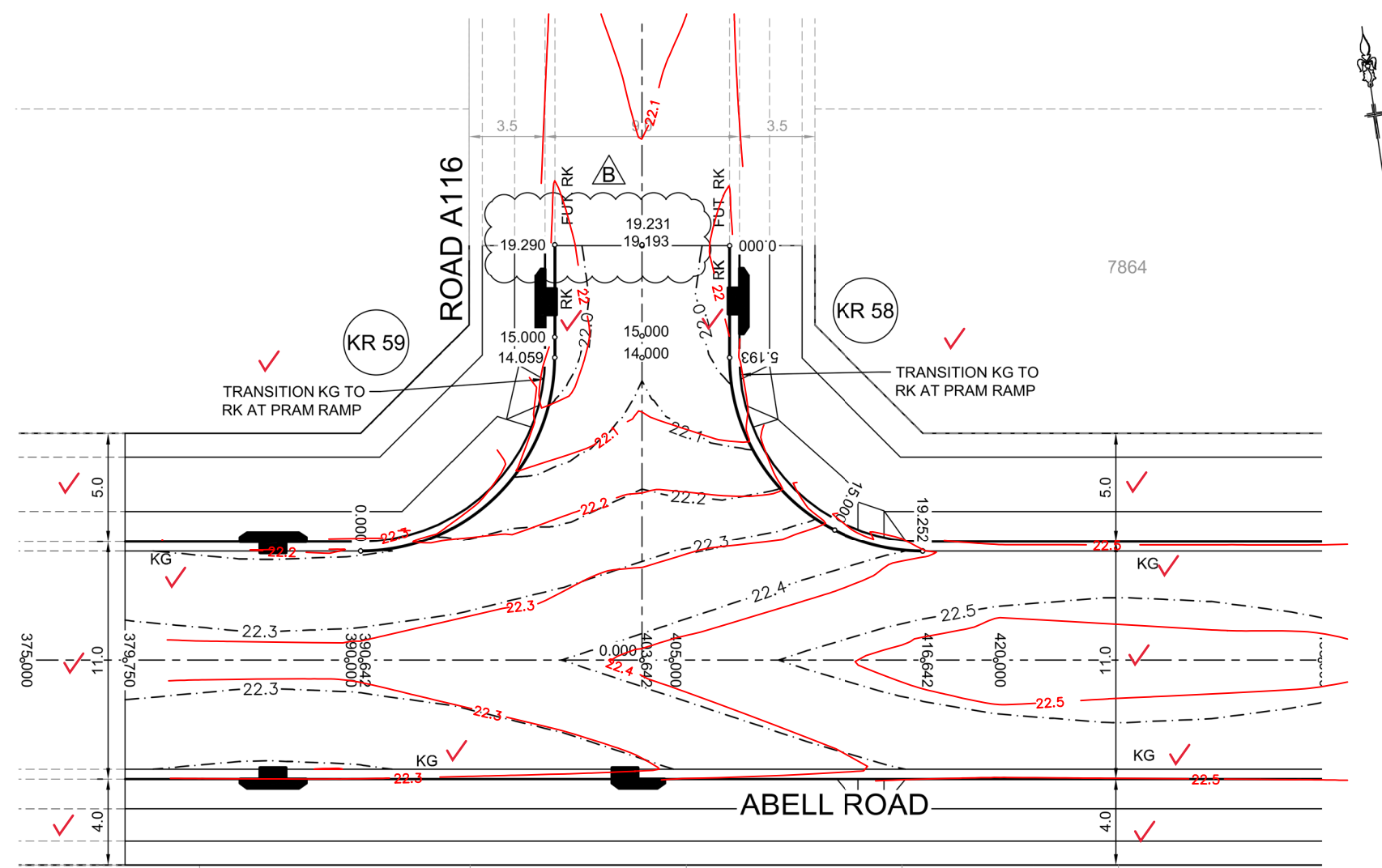
9985-12
CC11301
 A

These plans are referred to in certificate no. 16532 approved by:

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

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DESIGN LEVEL AND SETOUT ARE TO LIP OF GUTTER

PLAN
SCALE 1:200

KR 58
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

DESIGN GRADELINE
VERTICAL GEOMETRY

DATUM 20.0

DESIGN LIP GRADING	21.982	21.956	21.975	22.174	22.242	22.336	22.335	22.399	22.406
WAE	21.98	21.98	22.00	22.02	22.17	22.23	22.33	22.38	22.39
CHAINAGE	0	0.894	5.195	6.094	11.284	12.67	15	15.47	18.27

KR 59
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

DESIGN GRADELINE
VERTICAL GEOMETRY

DATUM 20.0

DESIGN LIP GRADING	22.194	22.201	22.205	22.192	22.121	22.076	21.969	21.956	21.982
WAE	22.20	22.21	22.21	22.19	22.13	22.08	21.96	21.96	21.97
CHAINAGE	0	1.058	2.206	4.258	7.458	8.653	13.653	14.059	18.453

KR 58

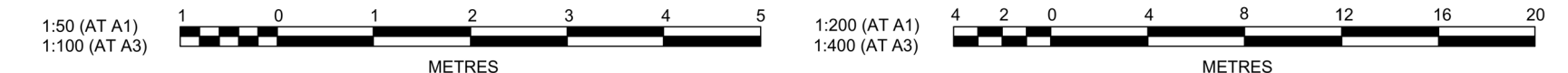
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A LENGTH
0	295144.95	6268714.75	188°24'49.71"		
5.19	295144.19	6268709.61	188°24'49.71"		
12.22	295142.89	6268700.76		-8.95	14.06
19.25	295151.74	6268699.45	98°24'49.72"		

KR 59

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A LENGTH
0	295126.02	6268703.26	98°24'49.72"		
7.03	295134.87	6268701.95		-8.95	14.06
14.06	295136.18	6268710.5	8°24'49.71"		
19.29	295136.95	6268715.98	8°24'49.71"		

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16532 issued by Land Development Certificates

Signature: *Peter Robert Warwick*
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 30/08/2022 REF 20260-7C



Plotted: 30 June, 2021 4:32:57 PM File Name: J:\9895DCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\11 - Abell Road Precinct 7\9895-12-CC11302.dwg

B	KERB RETURN UPDATED	DG/KE	DG	MP	MS	30/06/21
A	ISSUE FOR APPROVAL	DG/KE	NDW	MP	MS	17/05/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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

CLIENT:

WINTEN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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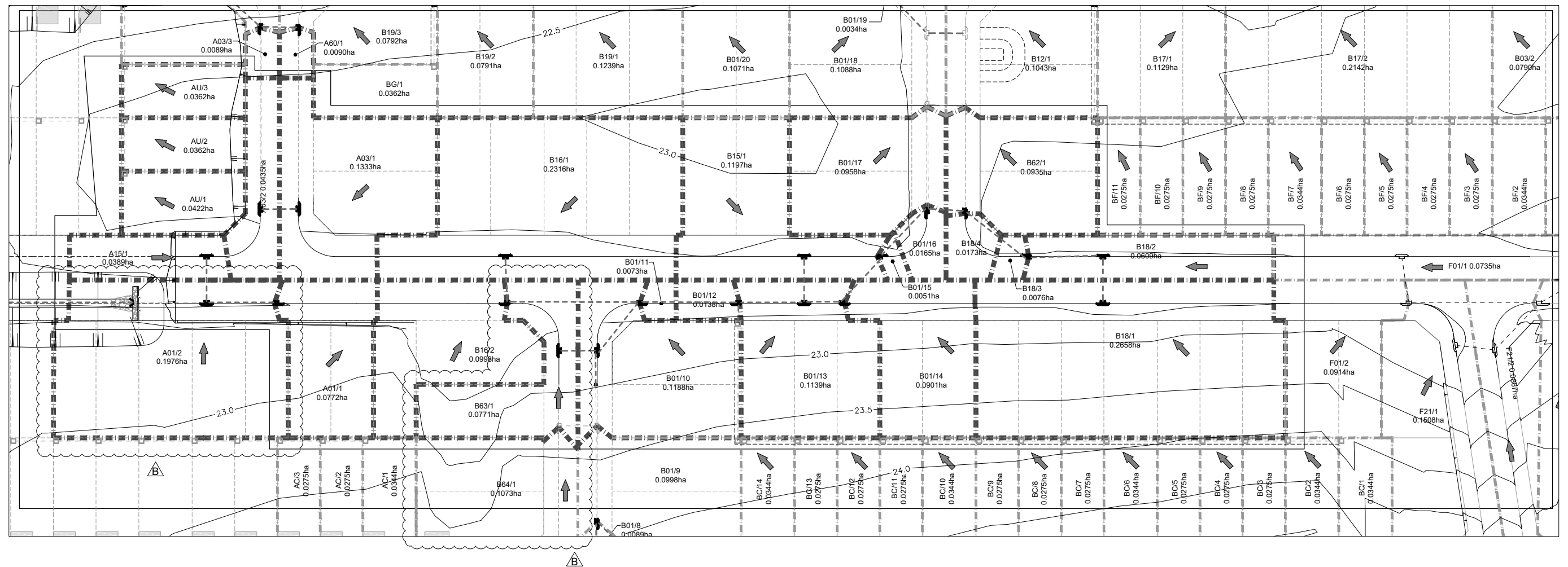
NEWPARK PRECINCT 7 ABELL ROAD STAGE 2
KERB RETURN SHEET 2

PROJECT No: **9985-12**
SHEET No: **CC11302**

AMAZON: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC11302**

PROJECT No: **9985-12**
SHEET No: **CC11302**

Plotted: 30 June, 2021 4:09:23 PM. File Name: J:\9985\DC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\11 - Abell Road Precinct 7\CC11401.dwg



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

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16532 issued by Land Development Certificates

Signature:

PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD

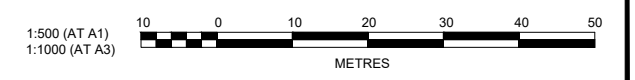
DATE 30/08/2022 REF 20260-7C

These plans are referred to in certificate no. 16532 approved by:

Christopher Louis Wahbe
Registered Certifier

Registration No: BDC 3015
Categories: Certifier - Subdivision

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AMENDMENT	DES	DRN	CKD	APR	DATE
B	DG/KE	DG	MP	MS	30/06/21
A	DG/KE	NDW	MP	MS	17/05/21

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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WINTAN PROPERTY GROUP

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NEWPARK
PRECINCT 7 ABELL ROAD STAGE 2
CATCHMENT PLAN

PROJECT No: **9985-12**

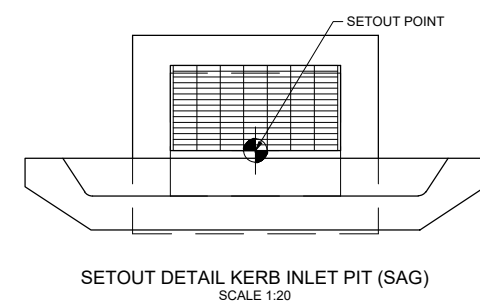
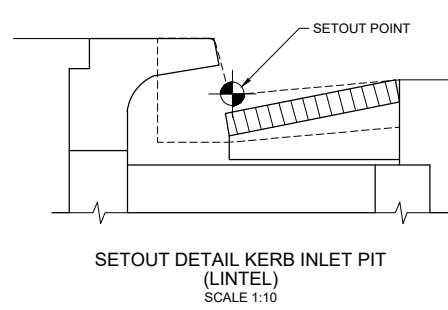
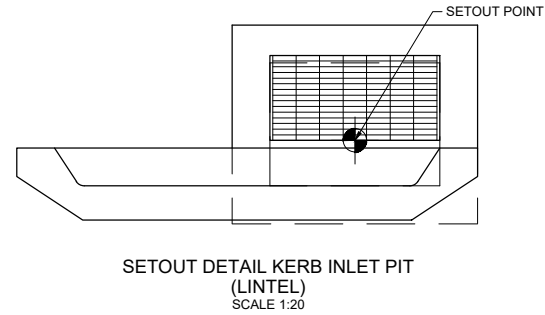
SHEET No: **CC11401**

PLAN No: **9985-12-CC11401**


AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC11401 **B**

Plotted: 30 June, 2021 4:07:50 PM. File Name: J:\9985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\11 - Abell Road Precinct 7C\985-12-CC11402.dwg

PIT SCHEDULE					
PIT NAME	SURFACE FITTING TYPE AND SIZE (-)	PIT EASTING (m)	PIT NORTHING (m)	PIT DEPTH (m)	COMMENTS
A01/1	1.8 m lintel	295136.56	6268691.03	1.52	
A01/2	2.4 m lintel sag	295120.45	6268693.41	1.63	
A01/3	1.8 m lintel	295060.12	6268702.34	2.26	STAGE 7D
A03/1	2.4 m lintel sag	295145.02	6268712.13	1.44	
A03/2	2.4 m lintel sag	295136.11	6268713.42	1.58	
A03/3	1.8 m lintel	295142.37	6268755.74	2.17	STAGE 7C
A15/1	2.4 m lintel sag	295122.06	6268704.3	1.44	
B01/9	2.4 m lintel	295206.79	6268651.64	1.87	STAGE 7C
B01/10	2.4 m lintel sag	295209.39	6268669.07	1.65	
B01/11	1.8 m lintel	295220.83	6268678.57	2.28	
B01/12	1.8 m lintel	295243.77	6268675.17	2.49	
B01/13	2.4 m lintel sag	295258.94	6268672.93	2.6	
B01/14	1.8 m lintel	295267.71	6268671.63	2.86	
B01/15	1.8 m lintel	295278.09	6268681.22	3.13	
B01/16	1.8 m lintel	295290.54	6268690.21	3.24	
B01/17	1.8 m lintel	295294.19	6268714.87	3.32	STAGE 7C
B15/1	2.4 m lintel sag	295260.55	6268683.81	1.44	
B16/1	2.4 m lintel sag	295191.3	6268694.05	1.44	
B16/2	2.4 m lintel	295189.69	6268683.17	1.73	
B18/1	2.4 m lintel sag	295328.18	6268662.69	1.44	
B18/2	2.4 m lintel sag	295329.79	6268673.57	1.71	
B18/3	1.8 m lintel	295312.62	6268676.11	2.02	
B18/4	1.8 m lintel	295299.44	6268688.82	2.07	STAGE 7C
B63/1	2.4 m lintel sag	295200.48	6268670.36	1.45	
BC/16	IAD 900x900			1.58	STAGE 7C



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16532 issued by Land Development Certificates

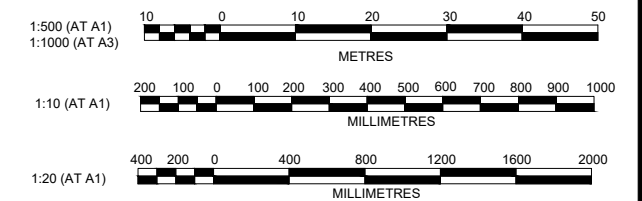
Signature: 
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD

DATE 30/08/2022 REF 20260-7C

LDC These plans are referred to in certificate no. **16532** approved by:

Christopher Louis Wahbe
Registered Certifier
Registration No: BDC 3015
Categories: Certifier - Subdivision

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REV	DESCRIPTION	DWG/KE	DG	MP	MS	DATE
B	PIT SCHEDULE UPDATED	DG/KE	DG	MP	MS	30/06/21
A	ISSUE FOR APPROVAL	DG/KE	NDW	MP	MS	17/05/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

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

CLIENT:

WINTEN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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NEWPARK
PRECINCT 7 ABELL ROAD STAGE 2
PIT SCHEDULE

PROJECT No: **9985-12**
SHEET No: **CC11402**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC11402**

B

Plotted: 30 June, 2021 4:07:40 PM. File Name: J:\9985D1CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\11 - Abell Road Precinct 7\CC11403.dwg


DESIGN STORM 1:10yr ARI HYDROLOGIC RESULTS																	
PIT NAME (-)	PIT TYPE (-)	CATCHMENT AREA (Ha)	PERCENT IMPERVIOUS (%)	Tc IMP (min)	Tc PERV (min)	CRITICAL STORM (min)	APPROACH FLOW (L/s)	CAPTURED FLOW (L/s)	UNCAPTURED FLOW (L/s)	GRATE DEPTH (mm)	ROAD GRADE (%)	ROAD CROSSFALL (%)	BYPASS PIT (-)	FLOW AT BYPASS PIT (L/s)	FLOW WIDTH AT BYPASS PIT (m)	VxD AT BYPASS PIT (m/s ²)	COMMENTS (-)
A01/1	1.8 m lintel	0.077	85	5	5	15	29	28	1	77	1	3	A01/2	28	1.83	0.04	
A01/2	2.4 m lintel sag	0.198	85	5	5	25	74	74	0	81	0.1	3	A01/3	0	0	0	
A01/3	1.8 m lintel	0.089	85	5	5	25	7	7	0	82	0.7	3	A01/4	40	1.89	0.06	
A03/1	2.4 m lintel sag	0.133	85	5	5	5	50	50	0	56	0.8	3.1	A60/1	0	0	0	
A03/2	2.4 m lintel sag	0.043	95	5	5	5	10	10	0	24	0.5	3.1	A03/3	0	0	0	
A03/3	1.8 m lintel	0.009	95	5	5	5	1	1	0	35	0.6	3	A03/4	7	1.36	0.01	
A15/1	2.4 m lintel sag	0.039	95	5	5	5	15	15	0	33	0.1	3	A03/2	0	0	0	
B01/9	2.4 m lintel	0.1	85	5	5	15	38	36	2	58	3.6	3	B01/10	24	1.04	0.06	
B01/10	2.4 m lintel sag	0.119	85	5	5	15	41	41	0	52	1.5	1.6	B63/1	0	0	0	
B01/11	1.8 m lintel	0.007	95	5	5	15	1	1	0	54	0.5	3	B01/10	22	0.94	0.05	
B01/12	1.8 m lintel	0.014	95	5	5	5	5	5	0	87	0.7	3	B01/11	1	0.94	0.02	
B01/13	2.4 m lintel sag	0.114	85	5	5	5	41	41	0	52	0.1	3	B01/12	0	2.04	0	
B01/14	1.8 m lintel	0.09	85	5	5	15	0	0	0	95	0.7	3	B01/13	41	2.09	0.05	
B01/15	1.8 m lintel	0.005	95	5	5	15	2	2	0	78	1	3	B15/1	45	2.05	0.06	
B01/16	1.8 m lintel	0.017	95	5	5	15	6	6	0	89	0.8	3	B01/17	36	1.91	0.05	
B15/1	2.4 m lintel sag	0.12	85	5	5	25	45	45	0	82	0.1	3	B16/1	0	0	0	
B16/1	2.4 m lintel sag	0.232	85	5	5	5	29	28	0	40	0.1	3	LOST	0	0	0	
B16/2	2.4 m lintel	0.099	85	5	5	25	37	36	1	57	0.6	2.5	B63/1	13	1.02	0.03	
B18/1	2.4 m lintel sag	0.266	85	5	5	15	100	100	0	95	0.1	3	B01/14	0	0	0	
B18/2	2.4 m lintel sag	0.061	95	5	5	5	23	23	0	38	0.1	3	B18/3	0	0	0	
B18/3	1.8 m lintel	0.008	95	5	5	15	0	0	0	48	0.7	3	B18/4	6	1.73	0.01	
B18/4	1.8 m lintel	0.017	95	5	5	25	6	6	0	78	0.8	3	B62/1	35	1.73	0.05	

DESIGN STORM 1:10yr ARI 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 ³ /head ³) (m)	WSE LOSS (Kw.V ³ /head ³) (m)	U/S PIPE HGL (m)	D/S PIPE HGL (m)	HGL GRADE (%)	MINIMUM COVER (m)	MINIMUM FREEBOARD (m)	COMMENTS
A01/1 to A01/2	375	RRJ2	16.28	1	25	26	0.14	0.66	20.715	20.552	0.03	4.5	4.5	0.1	0.01	20.863	20.877	-0.09	1.1	1.329	
A01/2 to A01/3	375	RRJ2	60.99	1	25	142	0.75	1.57	20.522	19.913	0.03	5.05	4.33	0.17	0.29	20.707	20.233	0.78	1.22	1.271	
A03/1 to A03/2	375	RRJ2	9	1	25	52	0.27	0.94	20.477	20.387	0.05	4.5	4.5	0.11	0.05	20.609	20.521	0.98	1.1	1.195	
A03/2 to A03/3	375	RRJ2	42.78	1	25	64	0.34	1.37	20.337	19.909	0.05	2.17	2.65	0.07	0.05	20.445	20.098	0.81	1.17	1.395	
A15/1 to A01/2	375	RRJ2	11	1	25	22	0.12	0.64	20.71	20.6	0.078	4.5	4.5	0.09	0.01	20.87	20.877	-0.06	1.1	1.249	
B01/9 to B01/10	525	RRJ2	17.63	1.3	25	486	0.92	2.28	20.756	20.527	0.07	0.63	0.5	0.12	0.12	21.211	21.081	0.74	1.03	1.298	
B01/10 to B01/11	675	RRJ2	14.87	1	25	561	0.62	2.06	20.457	20.309	0.108	0.82	0.78	0.13	0.1	21.013	20.982	0.21	1.1	1.022	
B01/11 to B01/12	750	RRJ2	23.19	1	25	619	0.51	1.92	20.201	19.969	0.03	0.59	0.58	0.14	0.06	20.941	20.895	0.2	1.48	1.496	
B01/12 to B01/13	750	RRJ2	15.33	1	25	724	0.6	2.25	19.939	19.785	0.03	1.31	0.45	0.1	0.06	20.846	20.801	0.29	1.68	1.535	
B01/13 to B01/14	750	RRJ2	8.87	2	25	835	0.49	2.61	19.755	19.578	0.05	0.5	0.49	0.3	0.09	20.746	20.712	0.38	1.8	1.557	
B01/14 to B01/15	750	RRJ2	14.13	1	25	820	0.68	2.17	19.528	19.387	0.05	0.84	0.87	0.15	0.15	20.598	20.545	0.38	2.12	1.673	
B01/15 to B01/16	750	RRJ2	15.36	1	25	813	0.67	2.21	19.337	19.183	0.05	0.23	0.23	0.09	0.04	20.513	20.455	0.38	2.51	1.917	
B01/16 to B01/17	825	RRJ2	24.93	1	15	945	0.61	2.14	19.133	18.884	0.03	1.51	1.59	0.24	0.25	20.27	20.19	0.32	2.35	1.918	
B15/1 to B01/13	375	RRJ2	11	2	25	101	0.38	1.35	20.92	20.7	0.945	4.5	4.5	0.23	0.19	21.014	20.86	1.4	1.1	1.114	
B16/1 to B16/2	375	RRJ2	11	2	25	28	0.1	1.04	20.815	20.595	0.05	4.5	4.5	0.11	0.01	21.015	21.015	-0.05	1.1	1.226	
B16/2 to B01/11	375	RRJ2	31.47	1	25	73	0.38	0.89	20.545	20.231	0.03	3.86	3.77	0.15	0.06	21	20.982	0.06	1.31	1.264	
B18/1 to B18/2	375	RRJ2	11	2	25	125	0.47	1.21	21.025	20.805	0.05	4.5	4.5	0.3	0.3	21.263	21.216	0.43	1.1	0.905	
B18/2 to B18/3	375	RRJ2	17.36	1	25	149	0.79	1.52	20.755	20.582	0.05	2.16	2.66	0.19	0.23	21.025	20.832	1.11	1.3	1.247	
B18/3 to B18/4	375	RRJ2	18.31	1	25	149	0.78	1.69	20.532	20.349	0.05	0.46	0.46	0.06	0.04	20.775	20.608	0.91	1.78	1.716	
B18/4 to B01/16	375	RRJ2	9	2	25	165	0.61	1.92	20.299	20.119	0.986	0.6	0.6	0.13	0.07	20.533	20.455	0.87	1.73	1.764	
B63/1 to B01/10	375	RRJ2	9	1.5	25	29	0.12	0.32	20.649	20.514	0.057	4.5	4.5	0.08	0.01	21.085	21.081	0.04	1.1	1.012	

DESIGN STORM 1:20yr ARI HYDROLOGIC RESULTS																	
PIT NAME (-)	PIT TYPE (-)	CATCHMENT AREA (Ha)	PERCENT IMPERVIOUS (%)	Tc IMP (min)	Tc PERV (min)	CRITICAL STORM (min)	APPROACH FLOW (L/s)	CAPTURED FLOW (L/s)	UNCAPTURED FLOW (L/s)	GRATE DEPTH (mm)	ROAD GRADE (%)	ROAD CROSSFALL (%)	BYPASS PIT (-)	FLOW AT BYPASS PIT (L/s)	FLOW WIDTH AT BYPASS PIT (m)	VxD AT BYPASS PIT (m/s ²)	COMMENTS (-)
BC/14	IAD 900x900	0.034	80	5	5	15	15	15									
BC/15	IAD 900x900		0			5	0	0									
BC/16	IAD 900x900		0			5	0	0									

DESIGN STORM 1:20yr ARI 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 ³ /head ³) (m)	WSE LOSS (Kw.V ³ /head ³) (m)	U/S PIPE HGL (m)	D/S PIPE HGL (m)	HGL GRADE (%)	MINIMUM COVER (m)	MINIMUM FREEBOARD (m)	COMMENTS
BC/14 to BC/15	300	uPVC	1.5	1	25	148	1.18	2.1	21.543	21.528	0.05	0.62	0.62	0.1	0.1	22.227	22.207	1.33	1.59	1.134	
BC/15 to BC/16	300	uPVC	27.5	1	25	148	1.18	2.12	21.478	21.203	0.05	1.74	2.02	0.17	0.43	22.06	21.483	2.1	1.24	1.224	
BC/16 to B01/12	375	RRJ2	4.75	2	25	190	0.71	2.4	21.153	21.058	1.119	0	0	0	0	21.431	21.418	0.27	1.15	1.306	

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16532 issued by Land Development Certificates

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

DATE 30/08/2022 REF 20260-7C

 These plans are referred to in certificate no. 16532 approved by:

Christopher Louis Wahbe
Registered Certifier

Registration No: BDC 3015
Categories: Certifier - Subdivision

Land Development Certificates
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B	DRAINAGE TABLES UPDATED	DG/KE	DG	MP	MS	30/06/21
A	ISSUE FOR APPROVAL	DG/KE	NDW	MP	MS	17/05/21
	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:

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NEWPARK PRECINCT 7 ABELL ROAD STAGE 2 DRAINAGE CALCULATIONS SHEET 1

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC11403

PROJECT No: **9985-12**

SHEET No: **CC11403**


B

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DESIGN STORM 1:100yr ARI HYDROLOGIC RESULTS																	
PIT NAME (-)	PIT TYPE (-)	CATCHMENT AREA (Ha)	PERCENT IMPERVIOUS (%)	Tc IMP (min)	Tc PERV (min)	CRITICAL STORM (min)	APPROACH FLOW (L/s)	CAPTURED FLOW (L/s)	UNCAPTURED FLOW (L/s)	GRATE DEPTH (mm)	ROAD GRADE (%)	ROAD CROSSFALL (%)	BYPASS PIT (-)	FLOW AT BYPASS PIT (L/s)	FLOW WIDTH AT BYPASS PIT (m)	VxD AT BYPASS PIT (m/s ²)	COMMENTS (-)
A01/1	1.8 m lintel	0.077	85	5	5	15	41	30	11	91	1	3	A01/2	49	4.51	0.03	
A01/2	2.4 m lintel sag	0.198	85	5	5	15	116	116	0	153	0.1	3	A01/3	0	0	0	
A01/3	1.8 m lintel	0.089	85	5	5	15	10	8	2	92	0.7	3	A01/4	58	2.21	0.07	
A03/1	2.4 m lintel sag	0.133	85	5	5	10	71	71	0	102	0.8	3.1	A60/1	0	0	0	
A03/2	2.4 m lintel sag	0.043	95	5	5	10	14	14	0	45	0.5	3.1	A03/3	0	0	0	
A03/3	1.8 m lintel	0.009	95	5	5	15	1	1	0	40	0.6	3	A03/4	10	1.65	0.02	
A15/1	2.4 m lintel sag	0.039	95	5	5	15	21	21	0	59	0.1	3	A03/2	0	0	0	
B01/9	2.4 m lintel	0.1	85	5	5	15	54	39	15	70	3.6	3	B01/10	47	5.84	0.05	
B01/10	2.4 m lintel sag	0.119	85	5	5	15	78	78	0	197	1.5	1.6	B63/1	20			
B01/11	1.8 m lintel	0.007	95	5	5	15	4	3	1	61	0.5	3	B01/10	31	5.84	0.03	
B01/12	1.8 m lintel	0.014	95	5	5	10	7	6	1	106	0.7	3	B01/11	5	1.15	0.02	
B01/13	2.4 m lintel sag	0.114	85	5	5	15	59	59	0	95	0.1	3	B01/12	0	2.67	0	
B01/14	1.8 m lintel	0.09	85	5	5	15	1	1	0	105	0.7	3	B01/13	58	2.43	0.06	
B01/15	1.8 m lintel	0.005	95	5	5	15	3	2	1	98	1	3	B15/1	64	4.44	0.04	
B01/16	1.8 m lintel	0.017	95	5	5	15	9	7	2	88	0.8	3	B01/17	53	2.37	0.06	
B15/1	2.4 m lintel sag	0.12	85	5	5	15	64	64	0	153	0.1	3	B16/1	0	1.42	0	
B16/1	2.4 m lintel sag	0.232	85	5	5	10	40	38	0	69	0.1	3	LOST	0	0	0	
B16/2	2.4 m lintel	0.099	85	5	5	15	53	39	14	74	0.6	2.5	B63/1	30	5.92	0.04	
B18/1	2.4 m lintel sag	0.266	85	5	5	15	141	141	0	176	0.1	3	B01/14	1	2.63	0	
B18/2	2.4 m lintel sag	0.061	95	5	5	10	32	32	0	67	0.1	3	B18/3	0	0	0	
B18/3	1.8 m lintel	0.008	95	5	5	15	0	0	0	54	0.7	3	B18/4	9	2.04	0.01	
B18/4	1.8 m lintel	0.017	95	5	5	15	9	7	2	87	0.8	3	B62/1	51	2.09	0.06	
B63/1	2.4 m lintel sag	0.077	85	5	5	10	66	66	0	200	1.1	1.8	LOST	59	0.22	0	

DESIGN STORM 1:100yr ARI 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 ² /head) (m)	WSE LOSS (Kw.V ² /head) (m)	U/S PIPE HGL (m)	D/S PIPE HGL (m)	HGL GRADE (%)	MINIMUM COVER (m)	MINIMUM FREEBOARD (m)	COMMENTS	
A01/1 to A01/2	375	RRJ2	16.28	1	10	26	0.14	0.67	20.715	20.552	0.03	4.5	4.5	0.1	0.01	21.715	21.713	0.01	1.1	0.516		
A01/2 to A01/3	375	RRJ2	60.99	1	20	181	0.95	1.68	20.522	19.913	0.03	5.21	4.04	0.21	0.38	21.583	21.244	0.56	1.22	0.435		
A03/1 to A03/2	375	RRJ2	9	1	15	73	0.38	1	20.477	20.387	0.05	4.5	4.5	0.13	0.1	21.054	21.051	0.03	1.1	0.837		
A03/2 to A03/3	375	RRJ2	42.78	1	20	101	0.53	1.45	20.337	19.909	0.05	2.19	2.65	0.13	0.11	21.035	21.012	0.05	1.17	0.861		
A15/1 to A01/2	375	RRJ2	11	1	10	32	0.17	0.66	20.71	20.6	0.078	4.5	4.5	0.08	0.02	21.715	21.713	0.02	1.1	0.427		
B01/9 to B01/10	525	RRJ2	17.63	1.3	10	503	0.95	2.35	20.756	20.527	0.07	0.51	0.51	0.14	0.14	22.469	22.3	0.96	1.03	0.083		
B01/10 to B01/11	675	RRJ2	14.87	1	20	619	0.68	2.05	20.457	20.309	0.108	1.34	1.34	0.16	0.16	22.147	22.12	0.18	1.1	-0.197		
B01/11 to B01/12	750	RRJ2	23.19	1	10	688	0.57	2	20.201	19.969	0.03	0.59	0.58	0.15	0.07	22.083	22.043	0.17	1.48	0.358		
B01/12 to B01/13	750	RRJ2	15.33	1	10	767	0.64	2.26	19.939	19.785	0.03	1.45	1.01	0.11	0.11	21.989	21.946	0.28	1.68	0.387		
B01/13 to B01/14	750	RRJ2	8.87	2	10	872	0.51	2.54	19.755	19.578	0.05	0.61	0.71	0.29	0.12	21.884	21.849	0.39	1.8	0.413		
B01/14 to B01/15	750	RRJ2	14.13	1	10	853	0.71	2.19	19.528	19.387	0.05	0.84	0.87	0.16	0.16	21.734	21.677	0.4	2.12	0.537		
B01/15 to B01/16	750	RRJ2	15.36	1	10	890	0.74	2.24	19.337	19.183	0.05	0.23	0.23	0.1	0.05	21.642	21.58	0.4	2.51	0.785		
B01/16 to B01/17	825	RRJ2	24.93	1	10	974	0.63	2.13	19.133	18.884	0.03	1.55	1.66	0.26	0.28	21.402	21.315	0.35	2.35	0.792		
B15/1 to B01/13	375	RRJ2	11	2	20	141	0.52	1.55	20.92	20.7	0.945	4.5	4.5	0.33	0.37	21.962	21.945	0.15	1.1	0.236		
B16/1 to B16/2	375	RRJ2	11	2	120	-64	-0.24	1.03	20.815	20.595	0.05	4.5	4.5	0.14	0.03	22.157	22.155	0.02	1.1	0.081		
B16/2 to B01/11	375	RRJ2	31.47	1	15	92	0.48	0.95	20.545	20.231	0.03	4.51	2.66	0.16	0.09	22.14	22.12	0.06	1.31	0.124		
B18/1 to B18/2	375	RRJ2	11	2	15	166	0.62	1.5	21.025	20.805	0.05	4.5	4.5	0.32	0.52	22.091	22.058	0.3	1.1	0.054		
B18/2 to B18/3	375	RRJ2	17.36	1	20	194	1.02	1.76	20.755	20.582	0.05	1.97	2.39	0.25	0.31	21.926	21.827	0.57	1.3	0.405		
B18/3 to B18/4	375	RRJ2	18.31	1	20	193	1.02	1.8	20.532	20.349	0.05	0.46	0.46	0.07	0.07	21.788	21.682	0.58	1.78	0.722		
B18/4 to B01/16	375	RRJ2	9	2	10	201	0.75	1.98	20.299	20.119	0.986	0.6	0.59	0.13	0.1	21.635	21.58	0.61	1.73	0.691		
B63/1 to B01/10	375	RRJ2	9	1.5	20	77	0.33	0.7	20.649	20.514	0.057	4.5	4.5	0.11	0.11	22.3	22.299	0.01	1.1	-0.2		

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16532 issued by Land Development Certificates

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

DATE 30/08/2022 REF 20260-7C

These plans are referred to in certificate no. 16532 approved by:

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

B	DRAINAGE TABLES UPDATED	DG/KE	DG	MP	MS	30/06/21
A	ISSUE FOR APPROVAL	DG/KE	NDW	MP	MS	17/05/21
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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

CLIENT:

WINTEN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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NEWPARK
PRECINCT 7 ABELL ROAD STAGE 2
DRAINAGE CALCULATIONS
SHEET 2

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC11404

PROJECT No: **9985-12**
SHEET No: **CC11404**

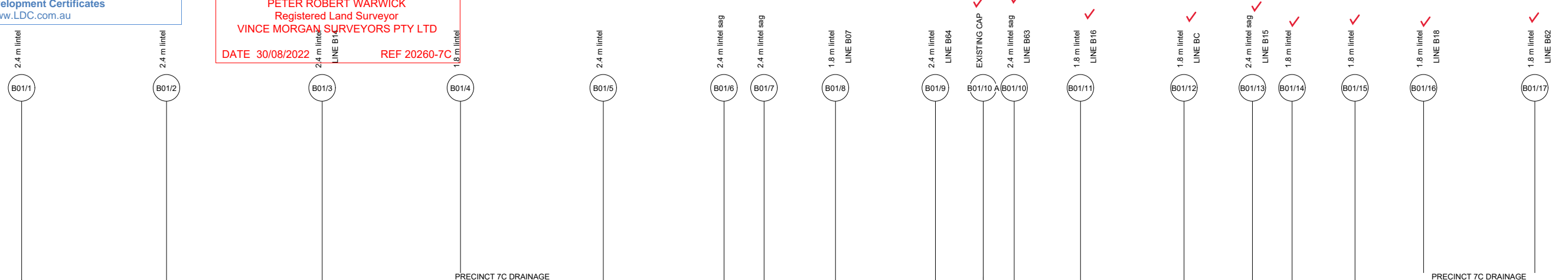
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PETER ROBERT WARWICK
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VINCE MORGAN SURVEYORS PTY LTD

DATE 30/08/2022 REF 20260-7C

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



DATUM (m)	15.00																
PEAK FLOW (L/s)	43	88	147	175	210	237	269	421	486	561	619	724	835	820	813	945	
PIPE SIZE (mm)	375	375	375	375	450	450	450	525	525	675	750	750	750	750	750	825	
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	
PIPE GRADE (%)	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.3	1.0 1.2	1.0 1.0	1.0 1.3	2.0 2.2	1.0 0.5	1.0 1.5	1.0 1.0	
PIPE COVER MINIMUM	1.10	1.23	1.36	1.49	1.53	1.75	2.08	1.33	1.03	1.10	1.48	1.68	1.80	2.12	2.51	2.35	
FULL PIPE VELOCITY (m/s)	0.96	1.13	1.45	1.72	1.62	1.49	1.69	1.95	2.28	2.06	1.92	2.25	2.61	2.17	2.21	2.14	
HGL GRADE (%)	0.6	-0.02	0.49	0.74	0.42	0.57	0.72	0.81	0.74	0.21	0.2	0.29	0.38	0.38	0.38	0.32	

NOTE: 10% AEP VALUES SHOWN

WAE																	
HYDRAULIC GRADE LINE	23.248	23.054	22.938	22.806	22.694	22.507	22.349	22.235	22.028	21.851	21.681	21.526	21.376	21.231	21.094	20.964	20.839
INVERT LEVEL	23.193	22.869	22.446	22.12	21.75	21.449	21.105	20.766	20.467	20.13	19.88	19.629	19.387	19.151	18.92	18.694	18.472
DESIGN SURFACE LEVEL	24.714	24.487	24.242	24.026	23.802	23.62	23.426	23.262	23.103	22.944	22.785	22.624	22.462	22.301	22.14	21.979	21.818
ROAD CHAINAGE	385.00	352.56	317.64	286.69	254.66	227.63	204.76	182.367	160.474	139.138	118.357	98.138	78.478	59.387	40.854	23.887	8.494
PIPE CHAINAGE	0	32.44	67.361	98.311	130.338	157.372	182.367	204.761	215.474	222.388	237.254	260.445	275.778	284.65	298.778	314.138	339.063

LINE B01



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B	DRAINAGE LS UPDATED	DG/KE	DG	MP	MS	30/06/21
A	ISSUE FOR APPROVAL	DG/KE	NDW	MP	MS	17/05/21
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CLIENT:

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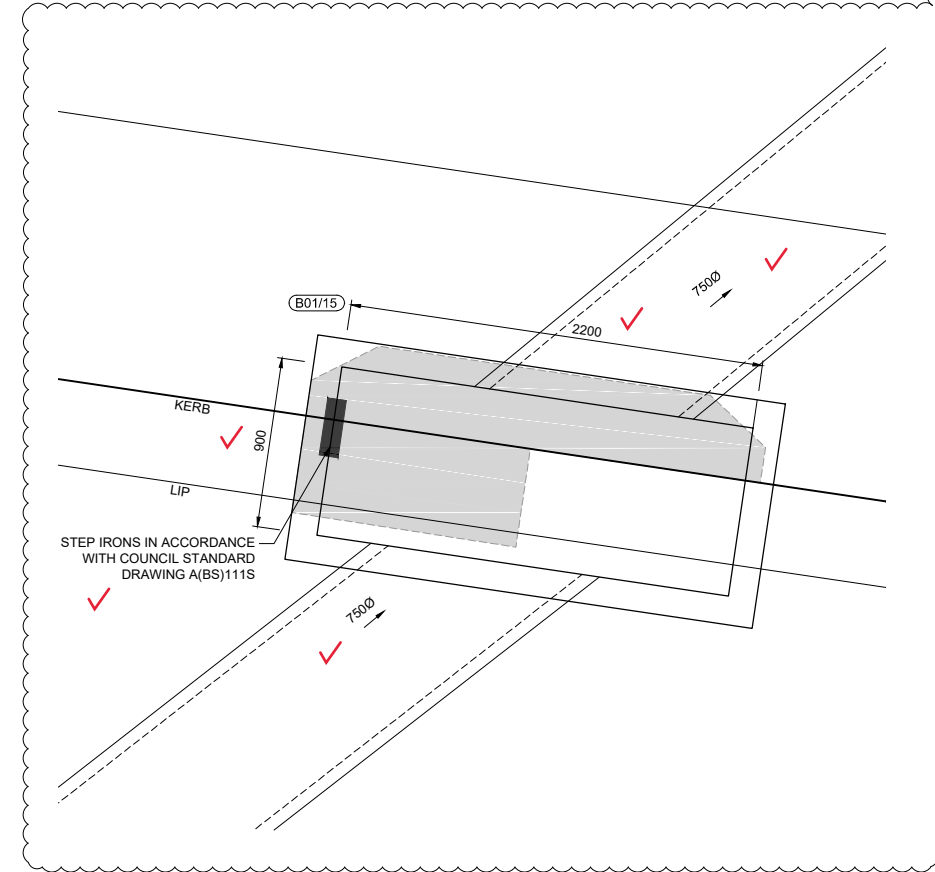
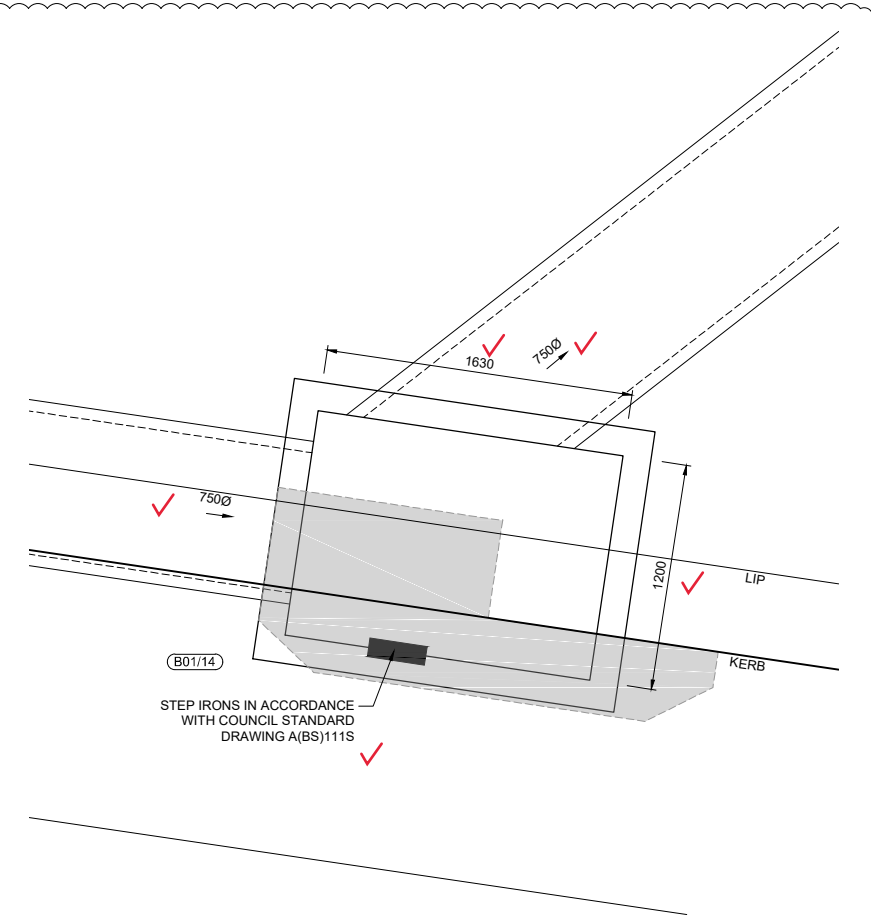
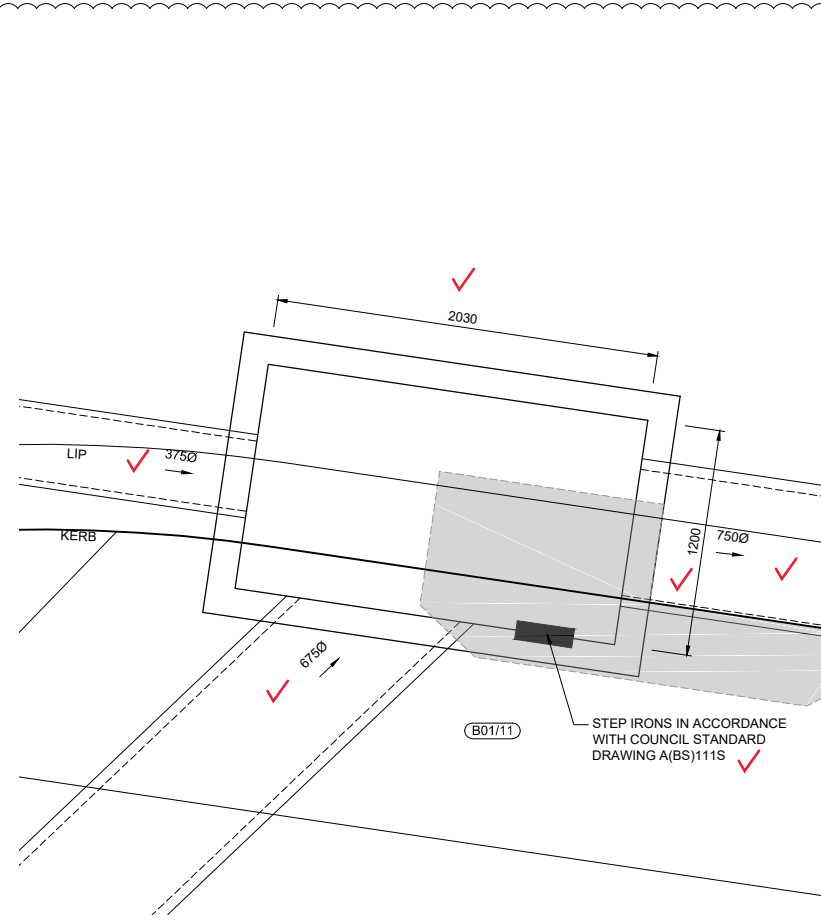
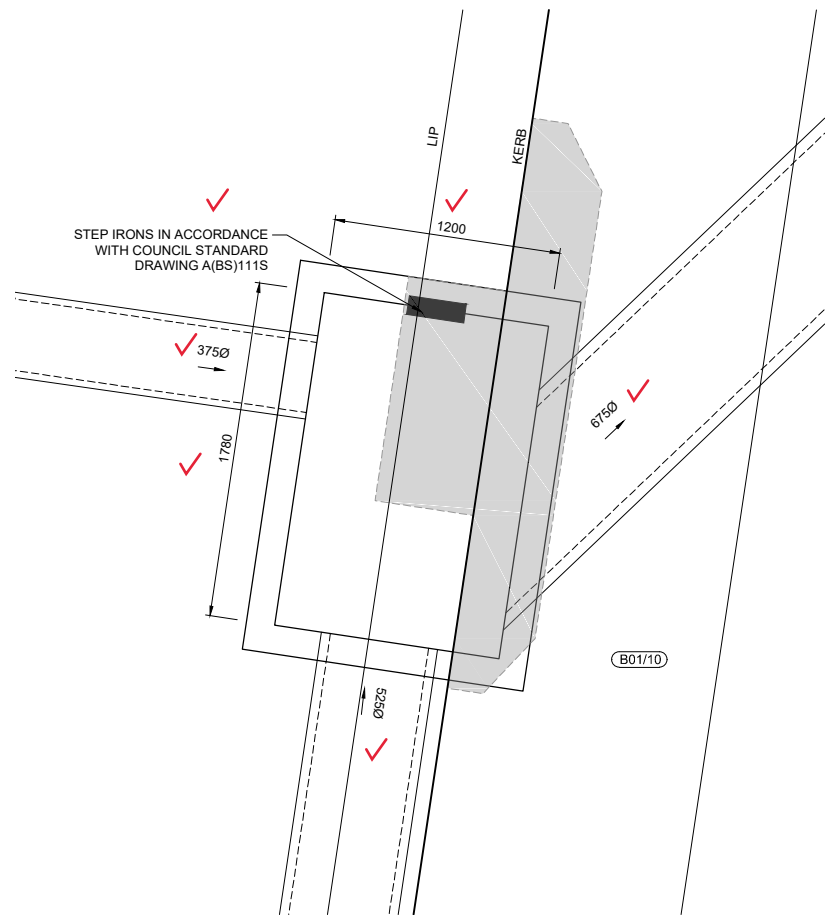
NEWPARK
 PRECINCT 7 ABELL ROAD STAGE 2
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 2

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC11422

PROJECT No: **9985-12**
 SHEET No: **CC11422**

B

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I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16532 issued by Land Development Certificates

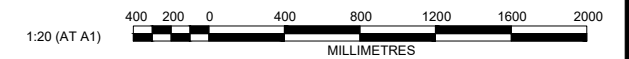
Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD

DATE 30/08/2022 REF 20260-7C

LDC These plans are referred to in certificate no. 16532 approved by:

Christopher Louis Wahbe
 Registered Certifier
 Registration No: BDC 3015
 Categories: Certifier - Subdivision

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AMENDMENT	DES	DRN	CKD	APR	DATE
B	DG/KE	DG	MP	MS	30/06/21
A	DG/KE	NDW	MP	MS	17/05/21

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NEWPARK
 PRECINCT 7 ABELL ROAD STAGE 2
 SPECIAL PIT DETAILS

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC11450

PROJECT No: **9985-12**
 SHEET No: **CC11450**

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

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

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

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

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

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

STOCKPILE NOTES:

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

SEDIMENTATION CONTROL DEVICES:

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

SITE INSPECTION AND MAINTENANCE:

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

THE SELF AUDIT SHALL INCLUDE:-

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

THE RESPONSIBLE PERSON SHALL ENSURE THAT:-

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

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16532 issued by Land Development Certificates

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

DATE 30/08/2022 REF 20260-7C

Plotted: 30 June, 2021 4:07:40 PM. File Name: J:\998512-CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\11 - Abell Road Precinct 7C\9985-12-CC11701.dwg

A	ISSUE FOR APPROVAL	DG/KE	NDW	MP	MS	17/05/21	
	AMENDMENT	DES	DRN	CKD	APR	DATE	

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
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CLIENT:

WINTEN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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NEWPARK
 PRECINCT 7 ABELL ROAD STAGE 2
 SOIL & WATER MANAGEMENT NOTES

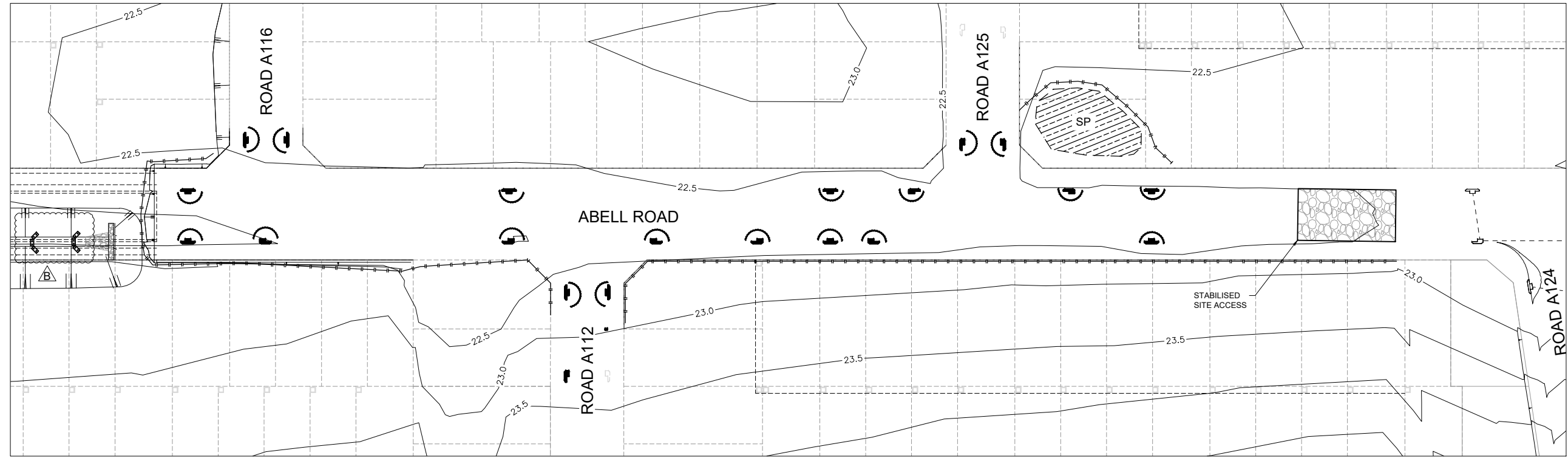
PROJECT No: **9985-12**
 SHEET No: **CC11701**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC11701**

PROJECT No: **9985-12**
 SHEET No: **CC11701**

NOTE: SOIL AND WATER MANAGEMENT TO BE READ IN CONJUNCTION WITH PRECINCT 7 - STAGE 7C (REF: 9985-12-CC10001 TO CC10803) SOIL AND WATER MANAGEMENT.

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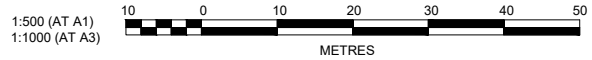


LEGEND	
	STABILISED SITE ACCESS & WHEEL WASH BAY
	SEDIMENT FENCE
	STOCKPILE
	MESH AND GRAVEL INLET FILTER
	GEOTEXTILE INLET FILTER
	STRAW BALE BARRIER

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 16532 issued by Land Development Certificates
 Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/08/2022 REF 20260-7C

These plans are referred to in certificate no. **16532** approved by:
Christopher Louis Wahbe
 Registered Certifier
 Registration No: BDC 3015
 Categories: Certifier - Subdivision
Land Development Certificates
www.LDC.com.au

NOTE: SOIL AND WATER MANAGEMENT TO BE READ IN CONJUNCTION WITH PRECINCT 7 - STAGE 7C (REF: 9985-12-CC10001 TO CC10803) SOIL AND WATER MANAGEMENT.



AMENDMENT	DES	DRN	CKD	APR	DATE
B	DG/KE	DG	MP	MS	30/06/21
A	DG/KE	NDW	MP	MS	17/05/21

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

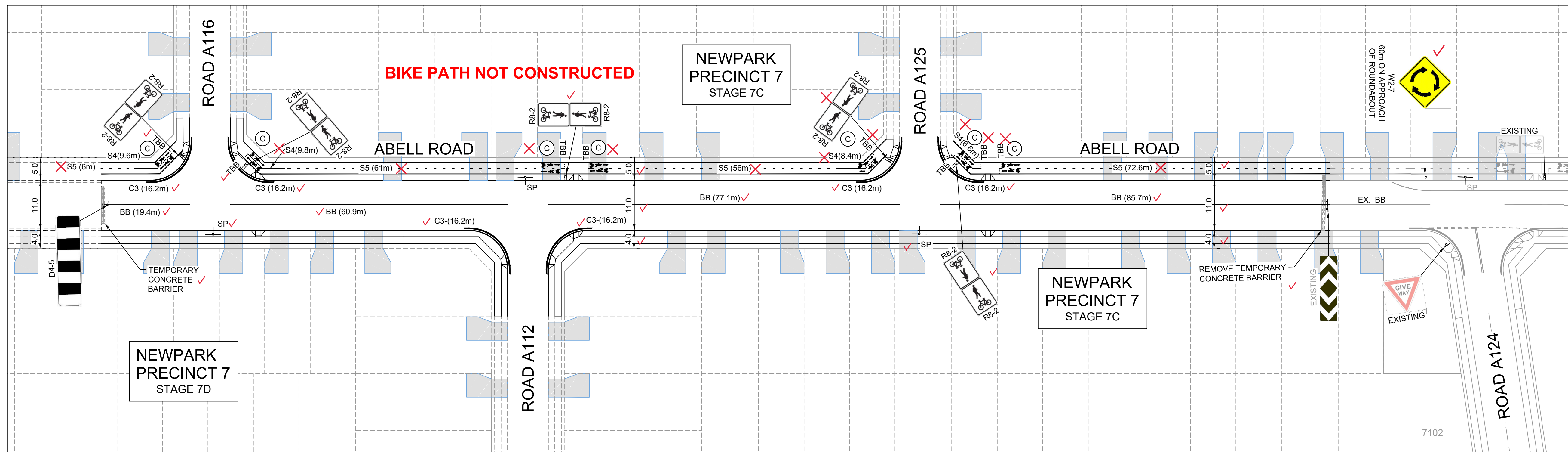
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CLIENT:
WINTIN PROPERTY GROUP

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NEWPARK
PRECINCT 7 ABELL ROAD STAGE 2
SOIL & WATER MANAGEMENT PLAN
 AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC11702

PROJECT No: **9985-12**
 SHEET No: **CC11702**
B

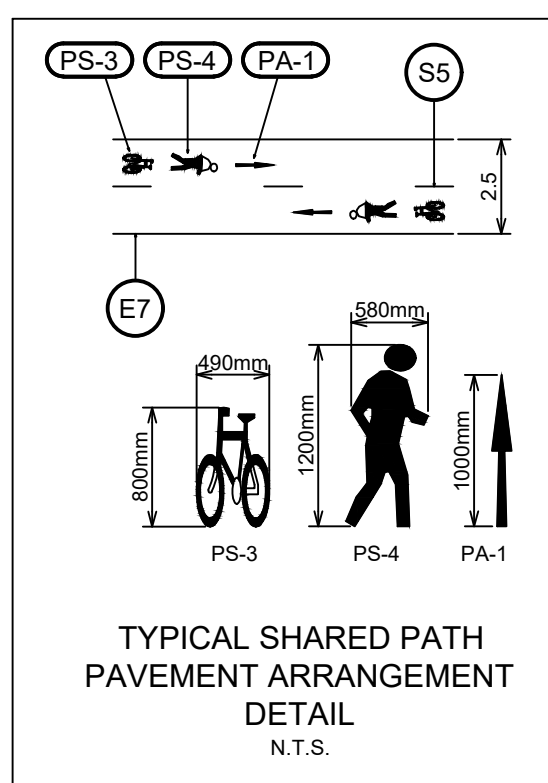


PAVEMENT MARKING SCHEDULE

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
S5	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		
C	Shared Path pavement arrangement. Refer to detail.		Reflectorised white
C3	Kerbside Linemarking for No Stopping Restrictions		Reflectorised yellow

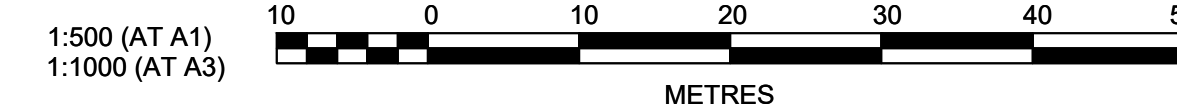
NOTES

- 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 MANAGER.
- ALL MEASUREMENTS ARE IN METRES UNLESS OTHERWISE SHOWN.



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

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 18032 issued by Land Development Certificates
 Signature: PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE: 30/08/2022 REF: 20280-7C



Plotted: 1 November 2021 4:39:27 PM File Name: J:\985\DC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCT\TS11 - Abell Road Precinct 7\0985-12-CC11801.dwg

AMENDMENT	DES	DRN	CKD	APR	DATE
C	KE	KE	DG	MS	01/11/21
B	DG/KE	DG	MP	MS	30/06/21
A	DG/KE	NDW	MP	MS	17/05/21

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NEWPARK PRECINCT 7 ABELL ROAD STAGE 2
 SIGNAGE AND LINE MARKING

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC11801

PROJECT No: **9985-12**
 SHEET No: **CC11801**

C