OFFICER CENTRAL STAGE 4 YOURLAND PTY LTD

GENERAL NOTES:

<u>SURVEY</u>

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) 94, ZONE 55.
- 2. ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT. THE ROAD & DRAINAGE SPECIFICATION. APPROVED MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE MUNICIPAL ENGINEER OR HIS REPRESENTATIVE.
- 4. ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB

EARTHWORKS

- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- WHERE REQUIRED ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
- ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE 7. UNLESS NOTED OTHERWISE.
- ALL FILLING ON LOTS AND WITHIN ROAD RESERVES GREATER THAN 200mm IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.
- 9. FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, AS 3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
- 10. ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
- 11. NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
- 12. TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF T.B.M.'S THEREAFTER.
- 13. AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 1.50m DEEP, A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.
- 14. ALL SERVICE TRENCHES UNDER DRIVEWAYS FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND KERB AND CHANNEL OR PAVED TRAFFIC AREAS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.
- 15. WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DESLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED. APPROVED AND LEVELED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH THE SPECIFICATION
- 16. NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCILS PERMISSION.

SERVICES

17. GAS AND WATER CONDUITS ARE TO BE Ø50mm . CLASS 12 P.V.C. - SINGLE SERVICE

> Ø100mm . CLASS 12 P.V.C. – DUAL SERVICE (DRINKING AND NON DRINKING WATER) WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS

ROAD PAVEMENT - 0.80m VERGE, FOOTPATHS - 0.45m

LOCATION OF THE CONDUITS TO BE MARKED ON THE FACE OF KERB ON EACH SIDE OF THE ROAD WITH A 50mm HIGH LETTER (G FOR GAS, W FOR WATER, E FOR ELECTRICITY AND T FOR TELECOMMUNICATIONS).

18. ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.

STORM WATER DRAINAGE

- 19. AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
- 20. ALL STORMWATER DRAINS ARE TO BE CLASS '2' R.C. PIPES UNLESS OTHERWISE SHOWN. ALL R.C. JOINTS ARE TO BE RUBBER RING JOINTED (R.R.J.) UNLESS OTHERWISE SHOWN
- 21. CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.3m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.

- 22. WHERE CURVED PIPES ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- 23. CCTV RESULTS FOR THE FULL LENGTH OF ALL STORMWATER DRAINAGE PIPES WHERE CARDINIA SHIRE COUNCIL IS RESPONSIBLE AUTHORITY MUST BE SUBMITTED FOR ASSESSMENT. SUBMITTED INFORMATION IS TO BE TO THE SATISFACTION OF THE RESPONSIBLE AUTHORITY. CCTV FOOTAGE TO BE PROVIDED BY CONTRACTOR BEFORE THE ROADS ARE PRIMED AND / OR ASPHALTED. ALL DAMAGED PIPES UNDER ROADS MUST BE REPAIRED AND INSPECTED PRIOR TO THE PRIMING AND ASPHALTING OF THE ROAD AND BEFORE A CERTIFICATE OF PRACTICAL COMPLETION IS ISSUED.

PAVEMENT

- 24. PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
- AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A 25. WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.
 - 26. WHEN PAVEMENT EXCAVATION IS IN ROCK ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL

SIGNAGE AND LINEMARKING

- 27. LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742 SERIES UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNCIL STANDARDS, LINEMARKING TO BE MADE WITH THERMOPLASTIC LONG LIFE PAINT
- 28. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.
- 29. TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS. <u>ENVIRONMENTAL</u>
- 30. CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. PRIOR TO THE COMMENCEMENT OF WORKS.
- 31. ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED FROM THE SUPERINTENDENT.
- 32. TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS

MISCELLANEOUS

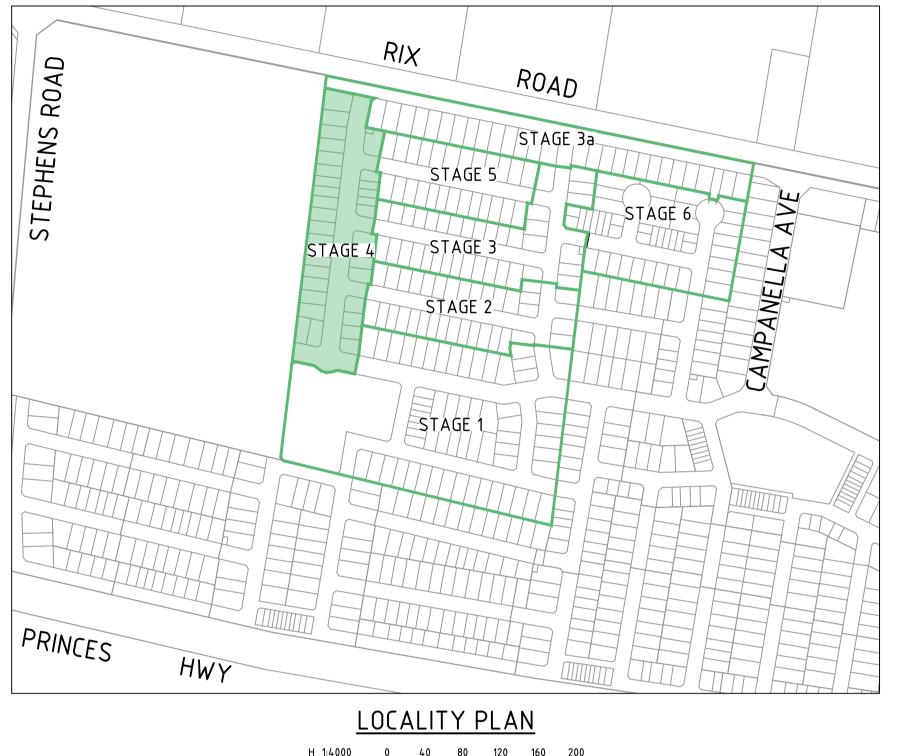
- 33. PROVIDE REFLECTIVE STREET NUMBER MARKERS ON THE KERB IN FRONT OF EACH LOT TO THE SATISFACTION OF COUNCIL.
- 34. UPON COMPLETION OF THE CIVIL WORKS, THE CONTRACTOR SHALL PROVIDE AS CONSTRUCTED PLANS IN AUTOCAD, D-SPEC AND R-SPEC DIGITAL FORMAT TO COUNCIL'S REQUIREMENTS AND TO THE SATISFACTION OF ALL PARTIES.
- 35. HOUSE DRAIN LOCATIONS ARE TO BE STAMPED ON THE KERB FACE IN ACCORDANCE WITH VPA EDCM303
- 36. CONTRACTOR TO REFER TO AND COMPLY WITH CHMP / F&F REPORTS PROVIDED IN CONTRACT DOCUMENTS



WARNING

BEWARE OF UNDERGROUND/OVERHEAD SERVICES THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

					Scale
0)	ISSUED FOR CONSTRUCTION	B.W	29/09/22	
С	;	AMENDED AS PER ADDITIONAL COUNCIL COMMENTS	B.W	25/07/22	
В	3	AMENDED SHEETS CR100-202, 402, 404, 502 & 700-800	B.W	01/07/22	
A	`	PRELIMINARY ISSUE	B.W	23/03/22	
Re	ev 🛛	Amendments	Approved	Date	





	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES - FACE SHEET	1	С
CR200	ROAD LAYOUT PLANS - FACE PLAN	2	С
CR201	ROAD LAYOUT PLANS – SERVICE PLAN	3	С
CR202	ROAD LAYOUT PLANS – EARTHWORKS PLAN	4	С
CR300	ROAD LONG SECTIONS - SHEET 1	5	А
CR301	ROAD LONG SECTIONS - SHEET 2	6	А
CR400	ROAD CROSS SECTIONS - SHEET 1	7	А
CR401	ROAD CROSS SECTIONS - SHEET 2	8	А
CR402	ROAD CROSS SECTIONS - SHEET 3	9	В
CR403	ROAD CROSS SECTIONS - SHEET 4	10	В
CR404	ROAD CROSS SECTIONS - SHEET 5	11	А
CR405	ROAD CROSS SECTIONS - SHEET 6	12	В
CR406	ROAD CROSS SECTIONS - SHEET 7	13	А
CR407	ROAD CROSS SECTIONS - TYPICAL SECTIONS	14	A
CR500	INTERSECTION DETAILS – SHEET 1	15	В
CR501	INTERSECTION DETAILS – SHEET 2	16	А
CR502	INTERSECTION DETAILS – SHEET 3	17	С
CR600	DRAINAGE LONG SECTIONS - SHEET 1	18	А
CR601	DRAINAGE LONG SECTIONS - SHEET 2	19	А
CR700	PAVEMENT AND TYPICAL DETAILS – SHEET 1	20	В
CR701	PAVEMENT AND TYPICAL DETAILS – SHEET 2	21	В
CR800	SIGNAGE AND LINEMARKING	22	С





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ABN 55 050 029 635

Designed M. WRIGHT Authorised B. WAREHAM



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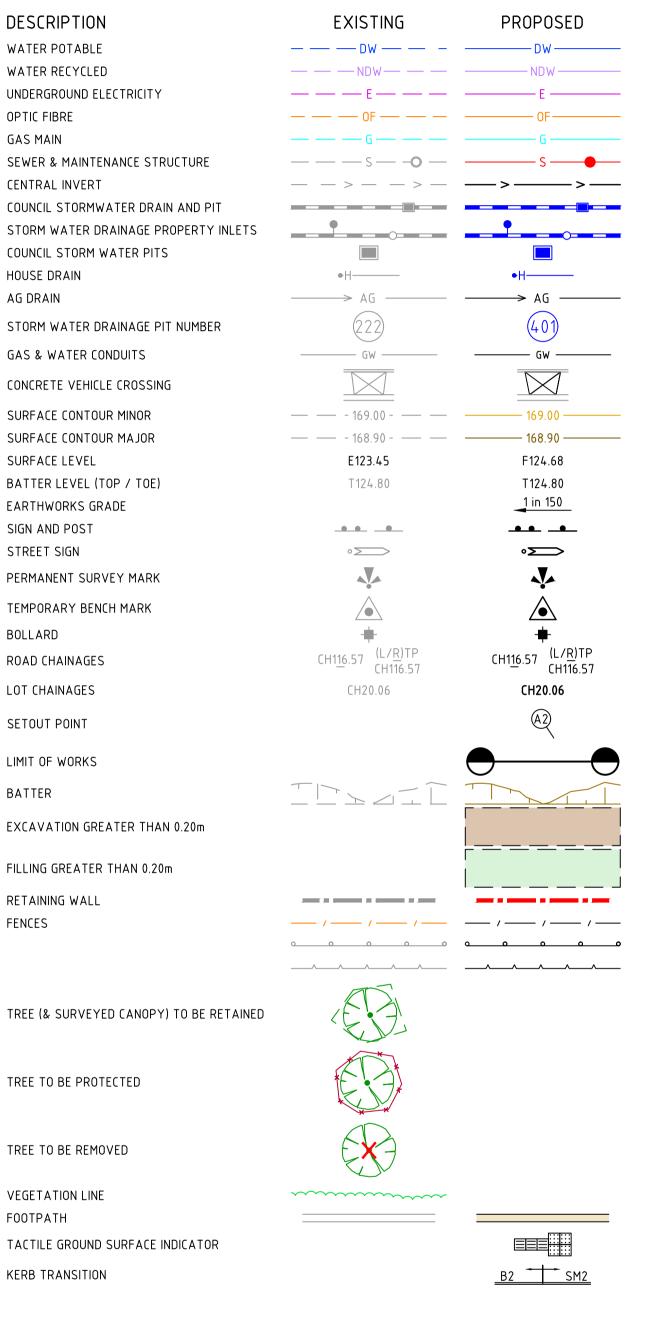
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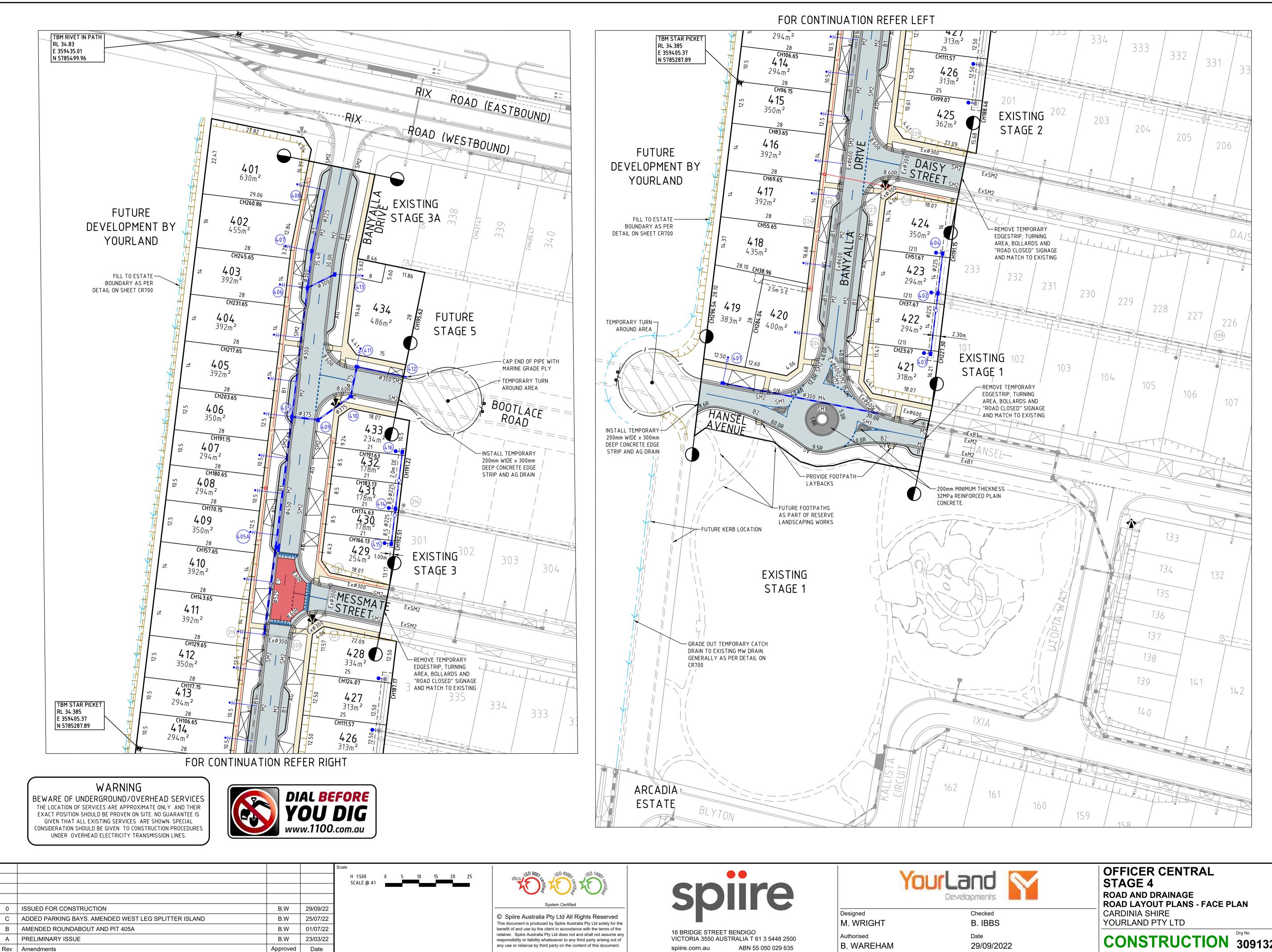
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ZONE 55





OFFICER CENTRAL STAGE 4 ROAD AND DRAINAGE **GENERAL NOTES - FACE SHEET** CARDINIA SHIRE YOURLAND PTY LTD



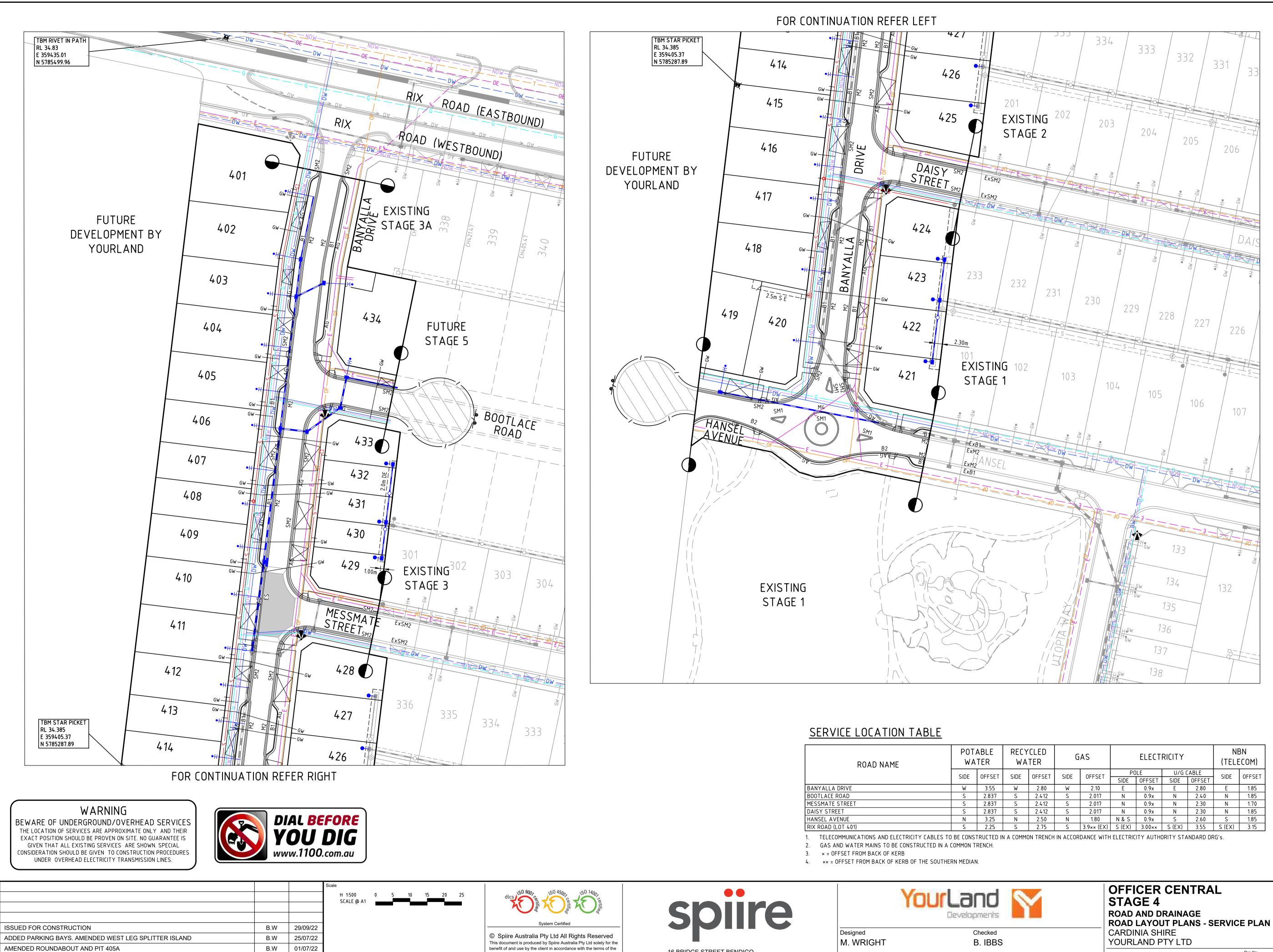
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B. WAREHAM





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Rev Amendments

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Approved

23/03/22

Date

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BOOTLACE ROAD	S	2.837	S	2.412	S	2.017	Ν	0.9x	Ν	2.40	Ν	1.85
MESSMATE STREET	S	2.837	S	2.412	S	2.017	Ν	0.9x	Ν	2.30	Ν	1.70
DAISY STREET	S	2.837	S	2.412	S	2.017	Ν	0.9x	Ν	2.30	Ν	1.85
HANSEL AVENUE	N	3.25	N	2.50	Ν	1.80	N & S	0.9x	S	2.60	S	1.85
RIX ROAD (LOT 401)	S	2.25	S	2.75	S	3.9×× (EX)	S (EX)	3.00××	S (EX)	3.55	S (EX)	3.15

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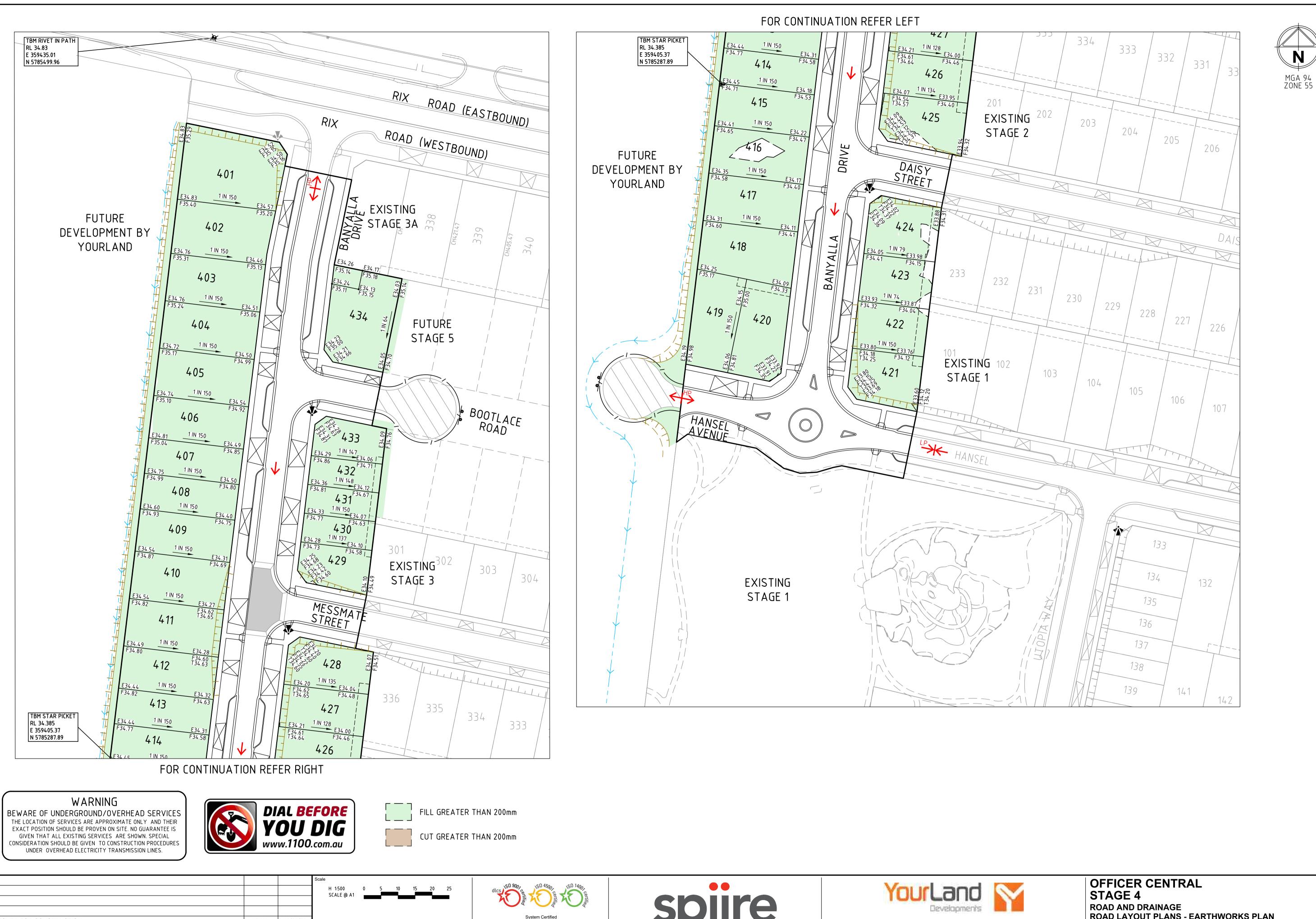


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CONSTRUCTION 309132CR201

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Designed M. WRIGHT Authorised B. WAREHAM



29/09/2022

Date

ROAD LAYOUT PLANS - EARTHWORKS PLAN CARDINIA SHIRE YOURLAND PTY LTD

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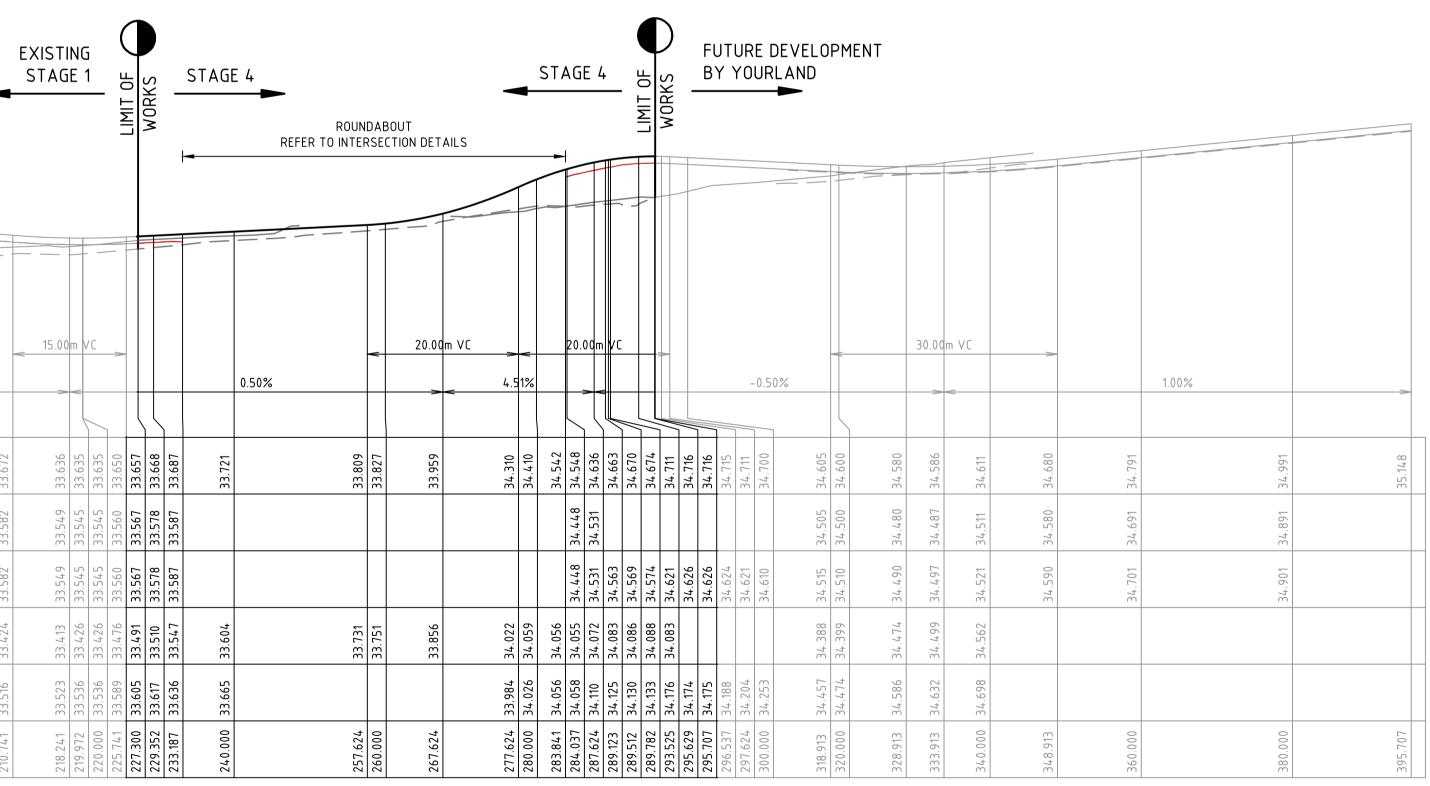
HANSEL AVENUE

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VERTICAL GEOMETRY					
VERTICAL GEOMETRY					-
DESIGN GRADELINE			-0.80%	¢ P	
DATUM RL 31.0					
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RIGHT DESIGN LIP OF KERB	850	828	.668	582	
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	0		4	4	
EX SURFACE LEFT BOUNDARY	190	17	32	42	
	S.	33.172	33.324	33.424	
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	m	<u> </u>	5	9	
EX SURFACE RIGHT BOUNDARY	343	36	40	516	
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CHAINAGE		180.000	200.000	J.7.	
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BANYALLA DRIVE

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		ROUNDABOUT					AISY STREET NTERSECTION DI	ETAILS					ME REFER TO	SSMATE S INTERSEC	STREET		SED INTERS	ECTION. REFE	R CR701	REFER	BOOTLACE ROAD						WOR	
VERTICAL GEOMETRY				~ 20.0	00m VC																					< 2		
DESIGN GRADELINE	-B.33%		1.00%		-0.50%			0.509	%			-0.50%	050384-%	0.50%	% –5.p						0.50%						-2.75	
DESIGN CENTRELINE	1 33.809 33.709 33.727	33.808 33.879 33.910	33.936 33.936 34.055 34.068	34.084	34.14/ 34.149 34.151 34.150 34.150	34.134 34.111 34.109 34.130	34.182 34.200		34.262 34.277 34.282	34.315 34.339	34.367 34.380 34.379	34.359 34.331	34.310 34.307 34.305 34.318	34.418 34.425 34.443	34.510	34.484 34.434 34.425 34.421 34.431	34.482 34.505	34.531 34.535 34.547	34.587 34.590	34.627 34.630 34.631	34.650 34.720 34.731	34.751 34.790	34.820 34.831 34.844	34.860 34.867 34.874 34.870	34.931 34.936	34.950 34.959 34.960 34.930	34.911 34.859	34.669 34.652 34.717
LEFT DESIGN LIP OF KERB	_		33.965 33.978	33.994 33.994	34.058 34.058 34.061 34.059 34.047	34.044 34.011 34.009 34.030 34.030	34.082 34.100		34.172 34.187 34.192	34.225 34.249	34.277 34.283 34.280	34.259 34.231	34.210 34.207 34.205 34.218	34.318 34.325 34.343	34.410	34.300 34.343 34.345 34.342 34.342	34.392 34.415 34.415	34.442 34.445 34.457	34.487 34.490	34.527 34.530 34.532	34.550 34.620 34.620 34.632	34.651 34.692		34.770 34.777 34.784 34.790	34.846 34.846	34.860 34.868 34.870 34.870		
RIGHT DESIGN LIP OF KERB	_	33.810	33.965 33.978		34.058 34.058 34.061 34.059 34.047				34.162 34.177 34.182	34.225 34.249	34.277 34.283 34.280	34.	34.210 34.207				34.382 34.405	34.432 34.435 34.447	34.487 34.490	34.527 34.530		34.700	34.73 34.74 34.75	34.770 34.777 34.784 34.790	37 37	34.860 34.868 34.870 34.870		
EX SURFACE LEFT BOUNDARY	_	33.920 33.895 33.895	33.921 33.921 34.083 34.090	097	34.102 34.096 34.091 34.109 34.149	152 172 172	34.219 34.223	34.154	34.184 34.230 34.245	34.310 34.281	34.316 34.319 34.319	34.317 34.275	34.293 34.295 34.296 34.305	34.318 34.312 34.273	34.309	34.315 34.319 34.321 34.333 34.333	34.416 34.416	34.484 34.497 34.523	34.489 34.477	34.531 34.530 34.530	34.540 34.499 34.515	34.509	34.479 34.480 34.455	34.456 34.486 34.523 34.523	34.569 34.567	34.560 34.542 34.535 34.535	34.509 34.514	
EX SURFACE RIGHT BOUNDARY	_	33.803 33.795 33.792			34.041 34.046 34.056 34.073 34.129				34.063 34.073 34.100	34.245 34.210	34.218 34.238 34.239	202 240	34.233 34.230 34.228 34.228			34.253 34.254 34.262 32.282		34.356 34.357 34.359	34.289 34.294	34.318 34.315 34.313 34.313		34.224 34.248	34.239 34.225 34.245	34.273 34.268 34.264 34.264	34.248 34.248	34.256 34.277 34.277 34.277	34.280 34.243	
CHAINAGE	0.000 3.000 4.871	12.918 20.000 23.14.8			51.670 51.670 53.875 55.647 60.000		80.000 83.647	89.397	96.147 99.075 100.000	106.647 111.575	117.147 119.776 120.000	124.075 129.647	133.851 134.451 134.776 137.297	138.697 140.000 143.647	157.123	158.634 158.634 158.795 160.000 166.130		180.000 180.645 183.130	191.145 191.630	199.074 199.674 200.000	203.645 217.645 220.000	223.857 231.645	237.640 240.000 242.553	245.645 247.082 248.435 249.788	260.000 260.860		276.206 280.000	288.706 289.298 291.248

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Designed M. WRIGHT Authorised B. WAREHAM



Checked B. IBBS Date 29/09/2022



OFFICER CENTRAL STAGE 4 ROAD AND DRAINAGE ROAD LONG SECTIONS - SHEET 1 CARDINIA SHIRE

YOURLAND PTY LTD

				Scale								
					H 1:500 SCALE @ A1	0	5	10	15	20	25	
					V 1:50	0	0.5	1	1.5	2	2.5	
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А	PRELIMINARY ISSUE	B.W	23/03/22									
Rev	Amendments	Approved	Date									

BOOTLACE ROAD

DATUM RL 31.0

VERTICAL GEOMETRY

DESIGN GRADELINE

CHAINAGE

DAISY STREET

RIGHT DESIGN LIP OF KERB

EX SURFACE LEFT BOUNDARY

EX SURFACE RIGHT BOUNDARY

LEFT DESIGN LIP OF KERB

DESIGN CENTRELINE

										FUTURE STAGE 5		LIMIT OF	STAC REFE	E	BANY	ALLA I ERSEC		E DETAILS
																-		
VERTICAL GEOMETRY	30	94m	<	mvl		>										500/		
DESIGN GRADELINE			2.83%	<				-0.50%	>	0.50%	~		-0.50%	->).50%	3.33	%
DATUM RL 31.0	_											\rightarrow	\rightarrow		\mathbb{Z}	}		\mathbf{H}
DESIGN CENTRELINE	34.283	34.387	34.404	34.741	34.759	34.747	969.45	000 /2	34.547	34.595	34.643	34.626	34.599	34.552	34.550 34.547		24.596	34.695
LEFT DESIGN LIP OF KERB	34.169	34.272	34.289 34.580	34.626	34.644	34.632	34.584	787 787 78	34.432	34.480	34.528	34.511	34.484	34.437				
RIGHT DESIGN LIP OF KERB	34.169	34.272	34.289	34.626	34.644	34.632	34.584	787 787 78	34.432	34.480	34.528	34.511	34.484	34.437				
EX SURFACE LEFT BOUNDARY	33.261	mi	33.307	33.498	33.523	33.535	33.585	69L EE	33.851	33.949	34.093	34.119	34.126 34.162	34.282	34.286 34.291			
EX SURFACE RIGHT BOUNDARY	33.313		33.412 33.369	33.432	33.517	33.538	33.587	אר הב מיד הב	33.795	33.878	34.017	34.041	34.078	34.193	34.198 34.204			
CHAINAGE	95.615	99.4.05	100.000	120.000	125.696	130.347	14.0.000	160 000 160 000	170.347	180.000	191.217	194.615	210.000 200.000	209.289	209.747 210.347	240.000	220.000	222.986



retainer. Spiire Australia Pty Ltd does not and shall not assume any

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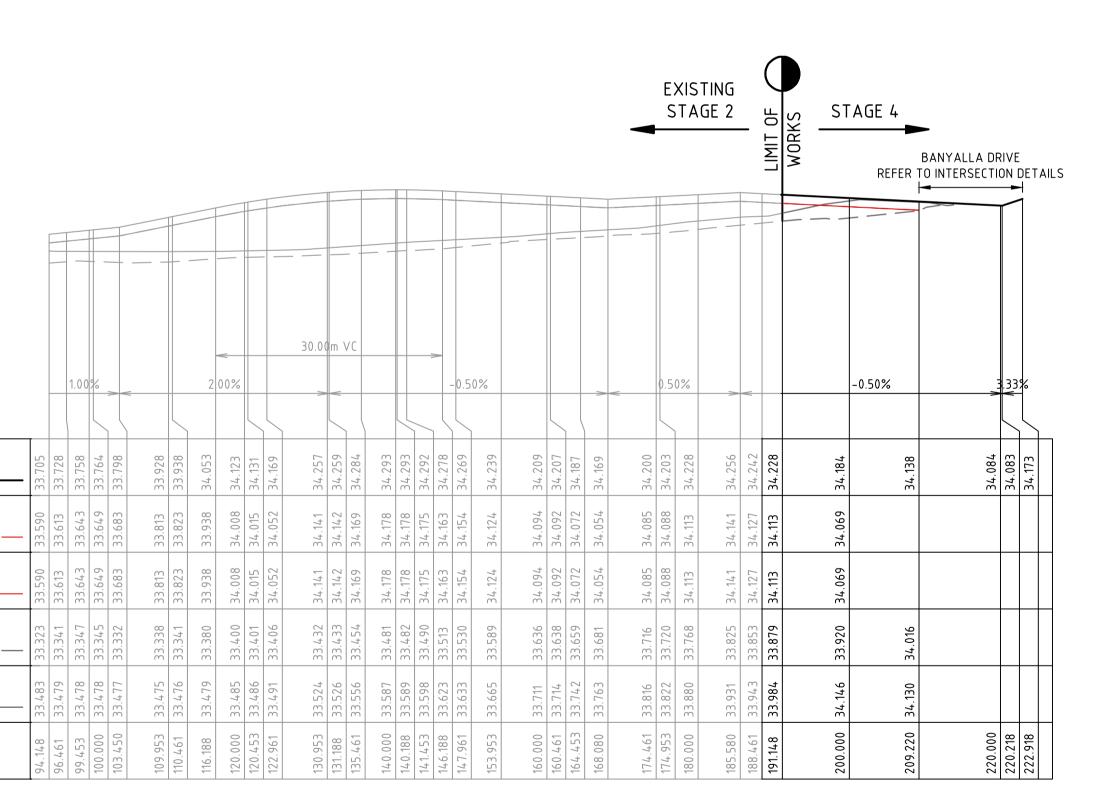


VICTORIA 3550 AUSTRALIA T 61 3 5448 2500 ABN 55 050 029 635 spiire.com.au

Designed M. WRIGHT Authorised B. WAREHAM

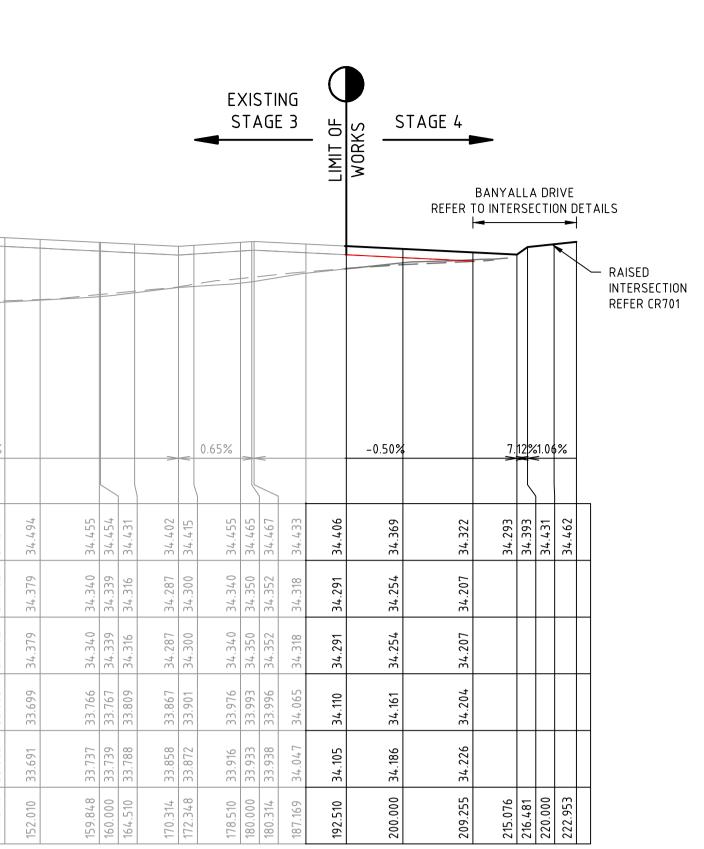


Checked B. IBBS Date 29/09/2022



MESSMATE STREET

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VERTICAL GEOMETRY			23	.681	n V	C	>	~		23	8.68	m V	С								
DESIGN GRADELINE	1	505	6			-	3.19	%			>	<								-0.50%	
DATUM RL 31.0	-]	
DESIGN CENTRELINE	33.905	33.912	33.957	34.088	34.102	34.183	34.284		34.473	34.487	34.552	34.571	34.604	34.610	34.610	34.602	34.580	34.556	34.554	34.517	
LEFT DESIGN LIP OF KERB	33.792	33.800	33.842	33.973	33.988	34.070	34.169		34.358	34.371	34.433	34.456	34.487	34.495	34.495	34.487	34.465	34.441	34.439	34.402	
RIGHT DESIGN LIP OF KERB	33.792	33.800	33.842	33.973	33.988	34.070	34.169		34.358	34.371	34.433	34.456	34.487	34.495	34.495	34.487	34.465	34.441	34.439	34.402	
EX SURFACE LEFT BOUNDARY	33.479	33.479	33.481	33.510	33.512	33.525	33.539		33.547	33.547	33.545	33.541	33.518	33.552	33.553	33.578	33.614	33.653	33.657	33.683	
EX SURFACE RIGHT BOUNDARY	33.360	33.363	33.383	33.356	33.353	33.360	33.373		33.468	33.479	33.492	33.494	33.501	33.514	33.514	33.541	33.579	33.621	33.624	33.665	
CHAINAGE	92.510	92.848	94.800	100.000	100.510	103.348	106.638		113.848	114.510	118.4.76	120.000	124.348	127.010	127.103	130.314	134.848	139.510	14.0.000	147.348	



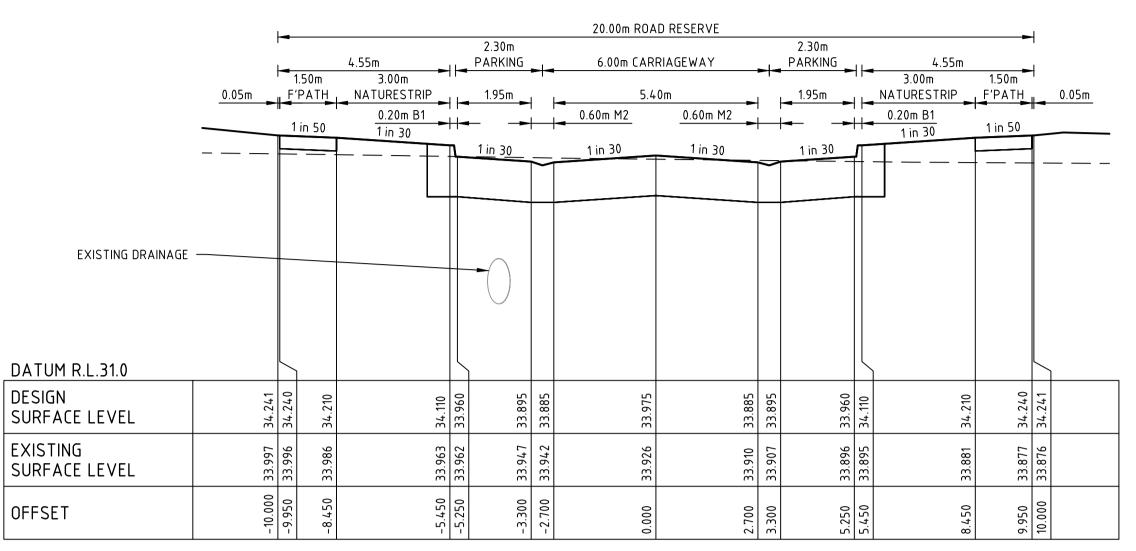


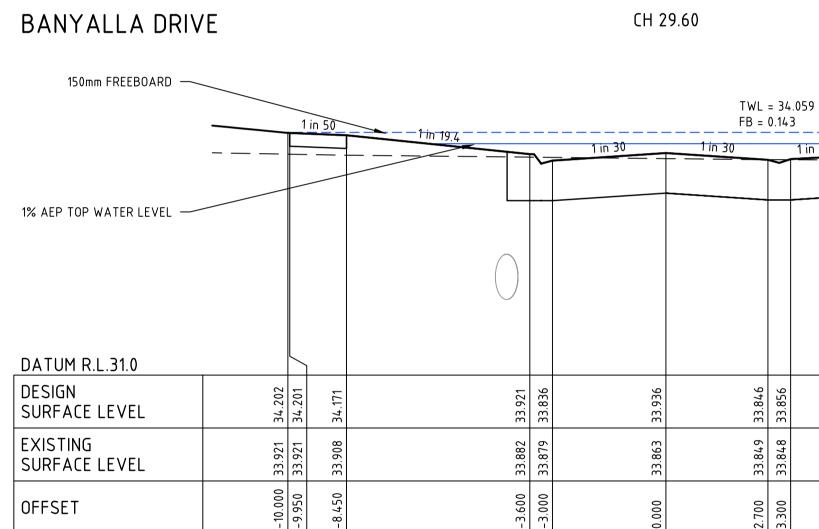
OFFICER CENTRAL STAGE 4 ROAD AND DRAINAGE **ROAD LONG SECTIONS - SHEET 2** CARDINIA SHIRE YOURLAND PTY LTD

CONSTRUCTION 309132CR301

Rev 0

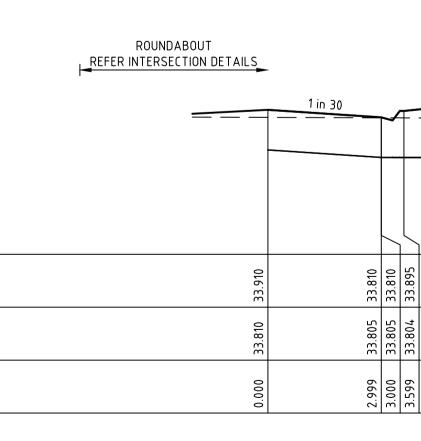
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.







CH 25.76



BANYALLA DRIVE

DATUM R.L.32.0

SURFACE LEVEL

SURFACE LEVEL

DESIGN

EXISTING

OFFSET

Dр												
ACA					Scale							
/					H 1:100 SCALE @ A1	0	1	2	3	4	5	
309132\Civil					V 1:50	0	0.5	1	1.5	2	2.5	
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<u>ں</u>												C Th
tion	0	ISSUED FOR CONSTRUCTION	B.W	29/09/22								be
location	А	PRELIMINARY ISSUE	B.W	23/03/22								ret res
file	Rev	Amendments	Approved	Date								an

ed by ne CR400 plot date 52 9132CR file file



CH 23.15



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Designed M. WRIGHT Authorised B. WAREHAM ABN 55 050 029 635



BANYALLA DRIVE

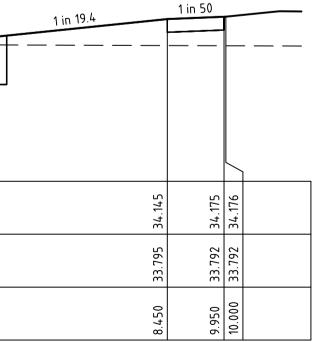
CH 60.18

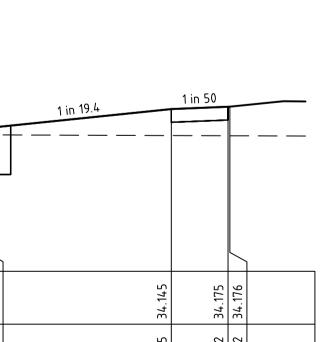
Checked

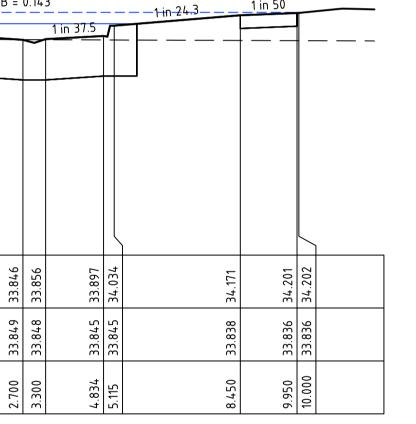
Date

B. IBBS

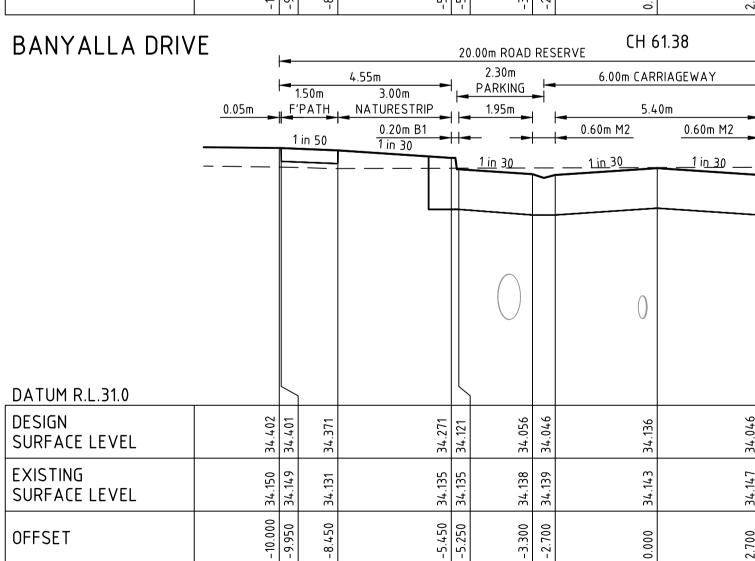
29/09/2022

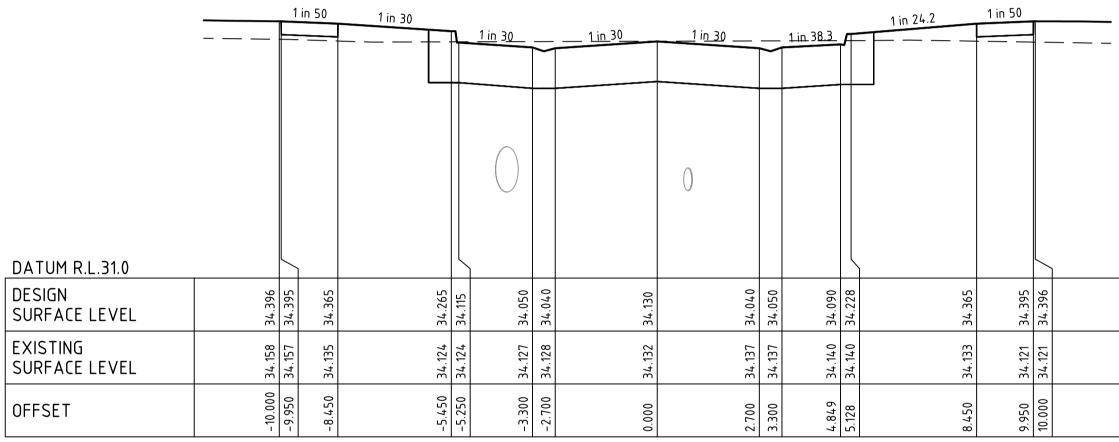






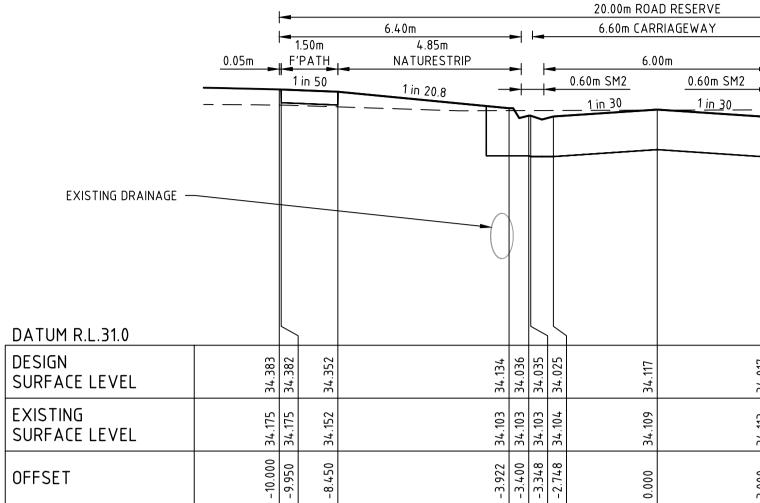
1 in 50





BANYALLA DRIVE

CH 64.01



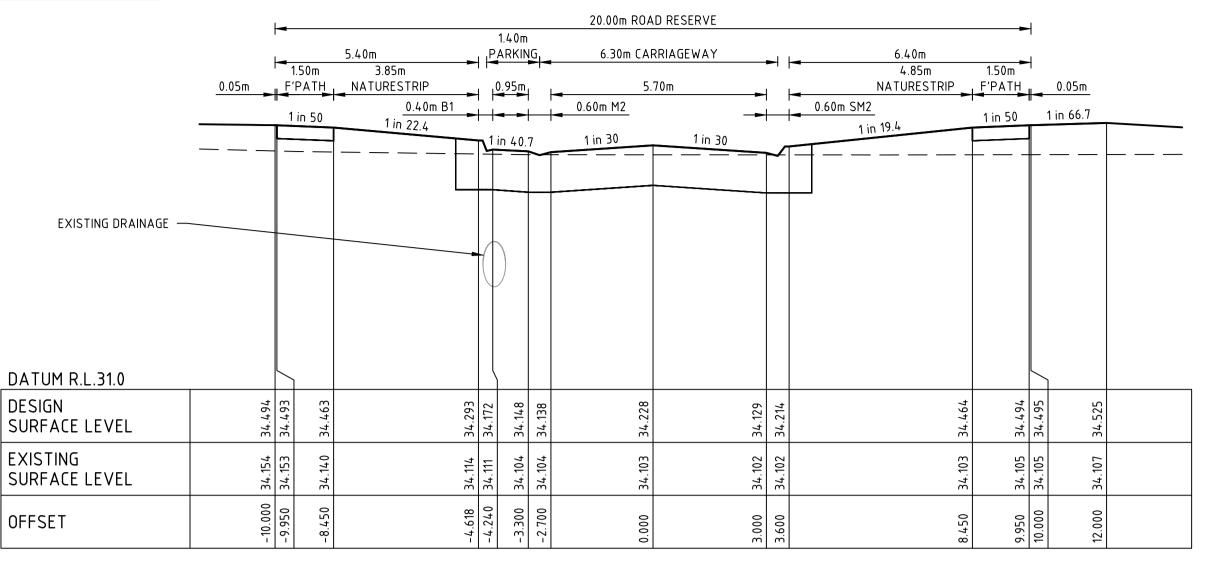
			-	I
_		6 .40m		t Į
		4.85m NATURESTRIP	1.50m F'PATH	0.05m
		1 in 19.4	1 in 50	
				·
	0			
34.017	34.102	34.352	34.382	34.383
34.113	34.115	34.116	34.104	34.104
3.000	3.600	8.450	9.950	10.000

_							ł
-		2.30m PARKING		4.55m			ł
		1.95m	+'	3.00m NATURESTRIP		1.50m F'PATH	0.05m
				0.20m B1 1 in 30			
				1 in 30	_	1 in 50	
		<u> 1 in 30 </u>	Æ		╞		
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	34.056	34.121	34.271		1/0.40	34.401	34.402
	34.148	34.151	34.152		34.141	34.129	34.128
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	00	50	50			05	10.000
	3.300	5.250	5.450		0.4.0	9.950	10.(



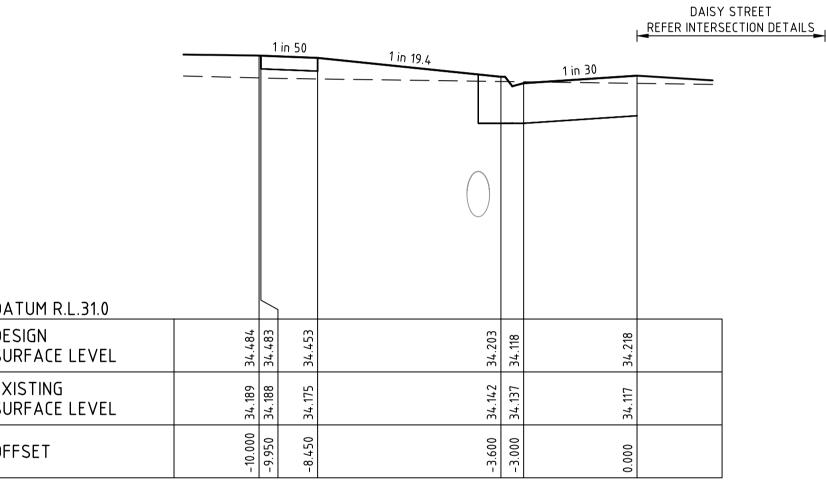
OFFICER CENTRAL STAGE 4 ROAD AND DRAINAGE **ROAD CROSS SECTIONS - SHEET 1** CARDINIA SHIRE YOURLAND PTY LTD

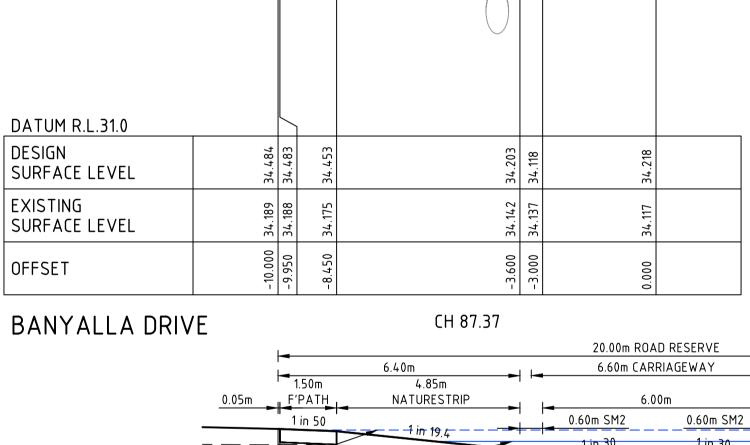
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.

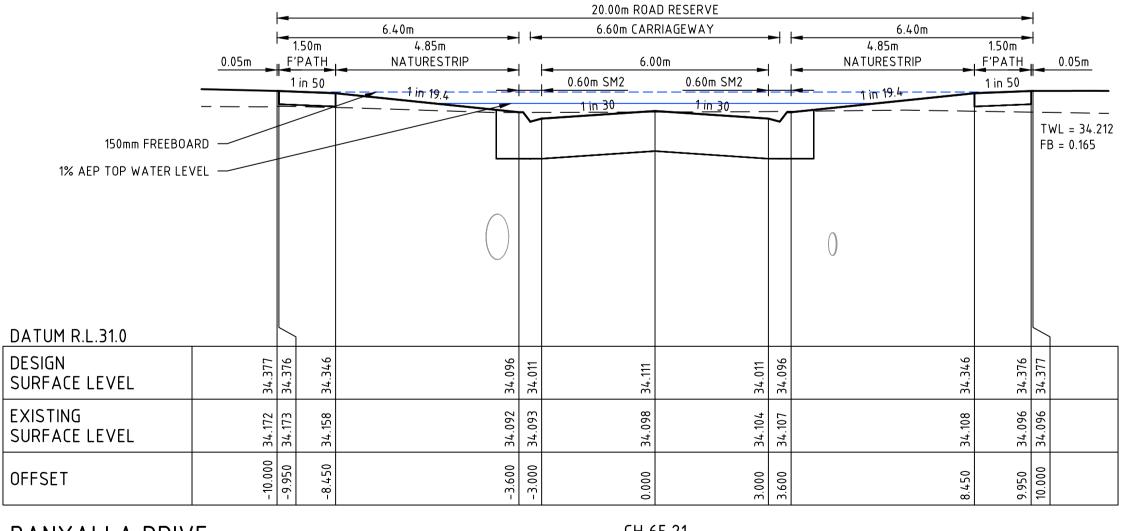


BANYALLA DRIVE

CH 89.40

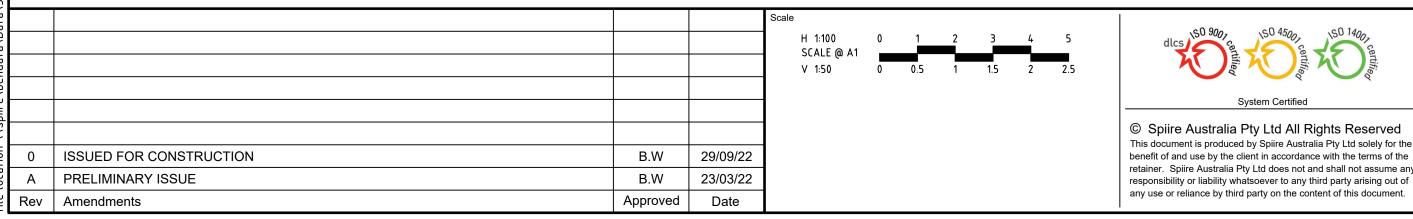


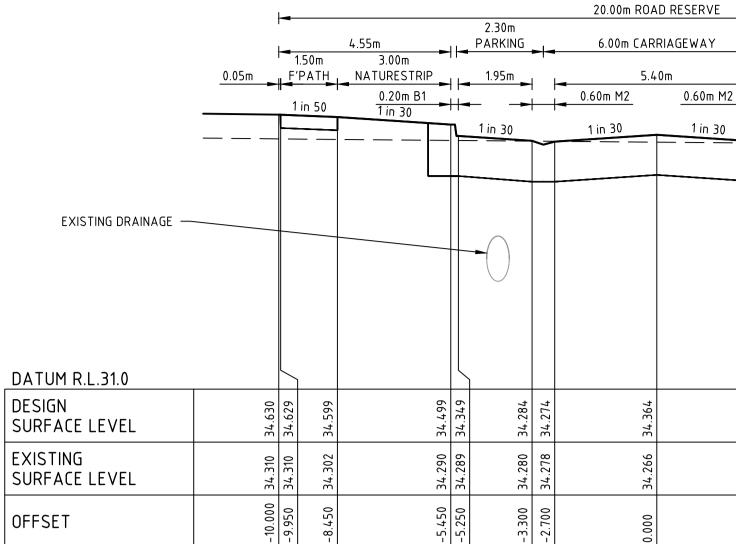




BANYALLA DRIVE

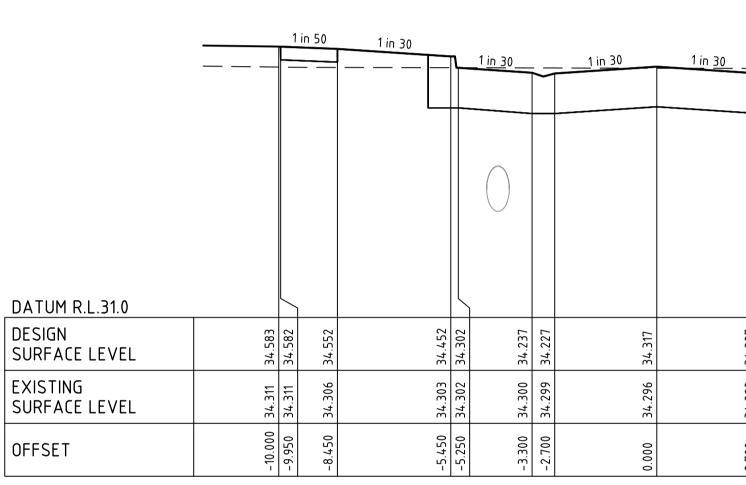
CH 65.21

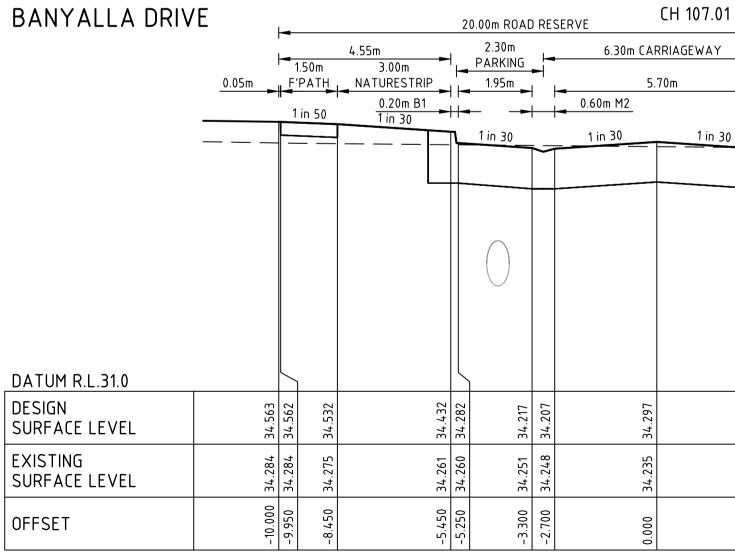




BANYALLA DRIVE

CH 116.51





BANYALLA DRIVE

CH 103.17

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Designed M. WRIGHT Authorised B. WAREHAM



Checked B. IBBS Date 29/09/2022

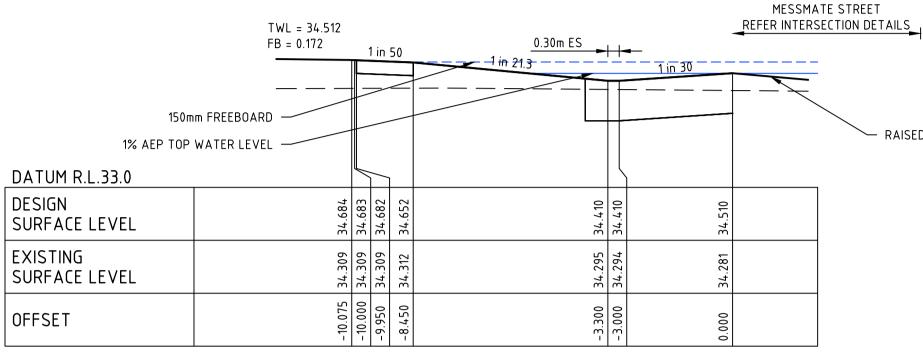
					-	1		
		2.30m PARKING		4.55m		1		
		FARRING	- -	3.00m	1.50m	4		
		1.95m		NATURESTRIP	F'PATH	╢╼╴	0.05m	
2		′ ⊲ ∍	⊷¦ ¦⊲	0.20m B1 1 in 30	' 1 in 50	"	1 in 66.7	
		1 in 30		T IN SV				_
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			\vdash	}				
34.274	34.284	67E 7E	34.499	34.599	34.629	34.630	34.660	
34.	34.	78	34.	34.	34.	34.	34.	
55	52	77	: m		13	13	00	
34.255	34.252	776 78	34.243	34.223	34.213	34.213	34.200	
			<u> </u>	, , , , , , , , , , , , , , , , , , ,				
2.700	3.300	5 250	5.450	8.450	9.950	10.000	12.000	
2.	З.	ر ب	ی از	œ	6.	10	12	

				1 in 30		1 in 50		1 in 66.7	
		<u>1 in</u> 30	╓		_				
				١				l	
34.227	34.237	34.302	34.452		34.42	34.582	34.583	34.613	
			-		-				
34.292	34.292	34.289	34.289		34.266	34.254	34.254	34.238	
2.700	3.300	5.250	5.450		8.450	9.950	10.000	12.000	
-						_			

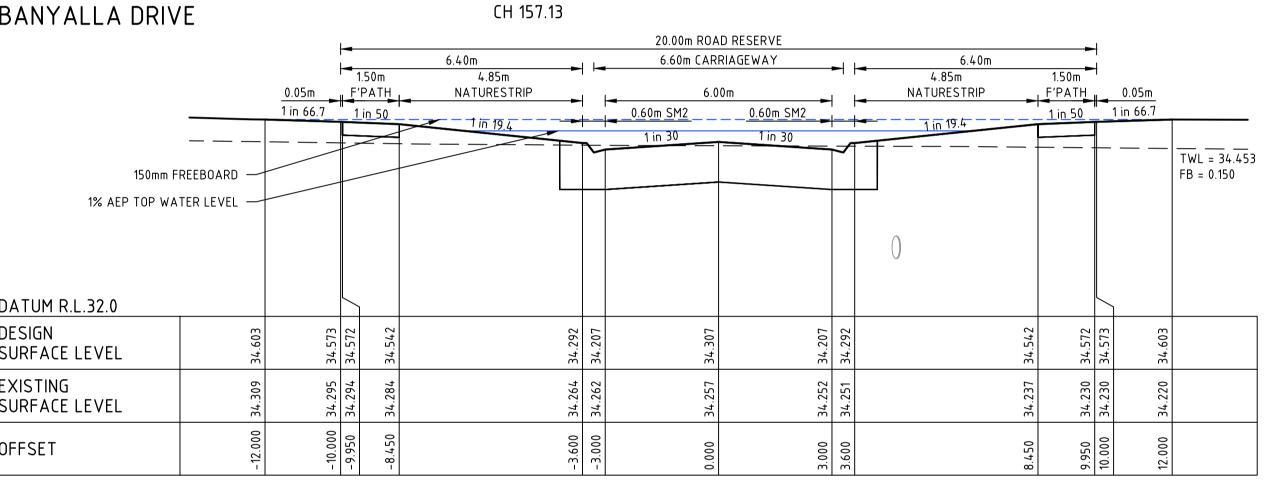
							4		
	╼┤	┝━	N	6.40m 4.85m ATUREST	DID	1.50m F'PATH	-	0.05m	
	•{ •}	┝╼╴	0.60m SM2			1 in 50		1 in 66.7	
0	~	T=	1 in 1						
	_								
							\leq		
34.197	34.197	34.282			34.532	34.562	34.563	34.593	
34.217	34.217	34.212			34.190	34.180	34.179	34.165	
3.000	3.000	3.600			8.450	9.950	10.000	12.000	
		· · · · ·							

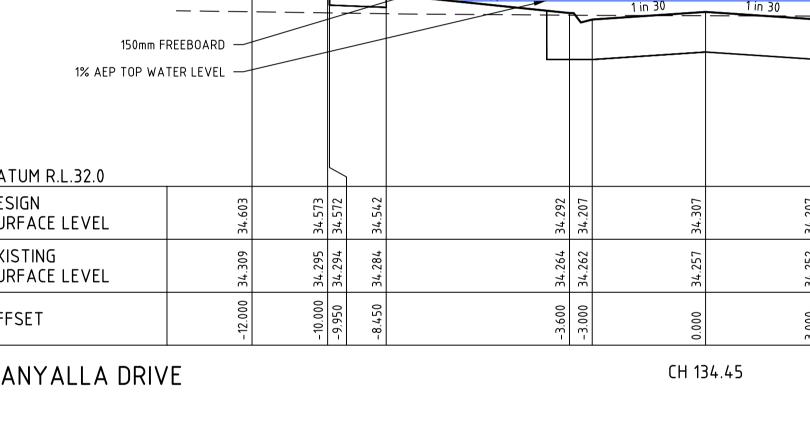
OFFICER CENTRAL STAGE 4 ROAD AND DRAINAGE **ROAD CROSS SECTIONS - SHEET 2** CARDINIA SHIRE YOURLAND PTY LTD

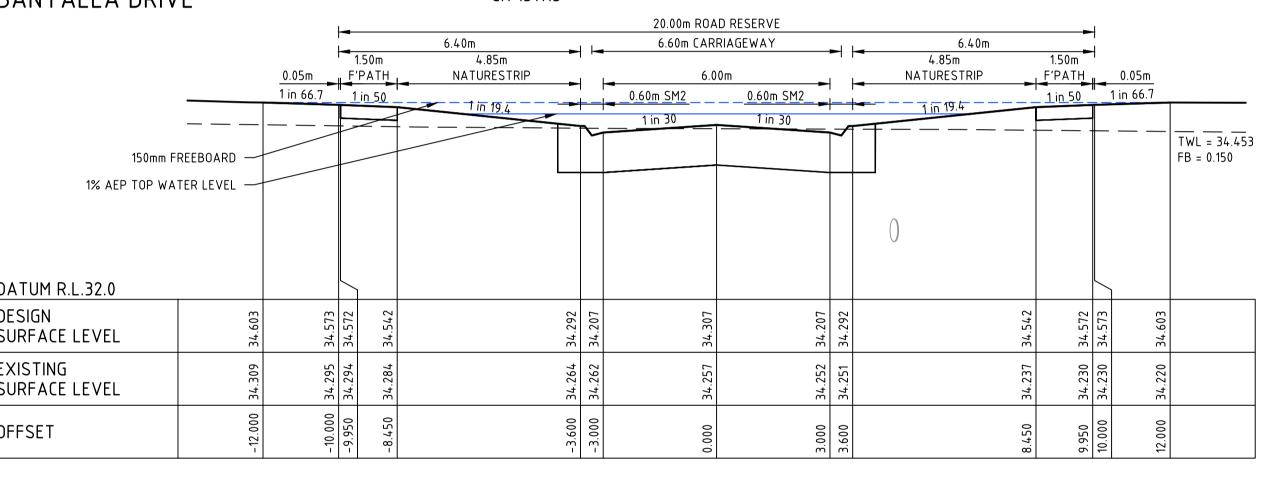
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.

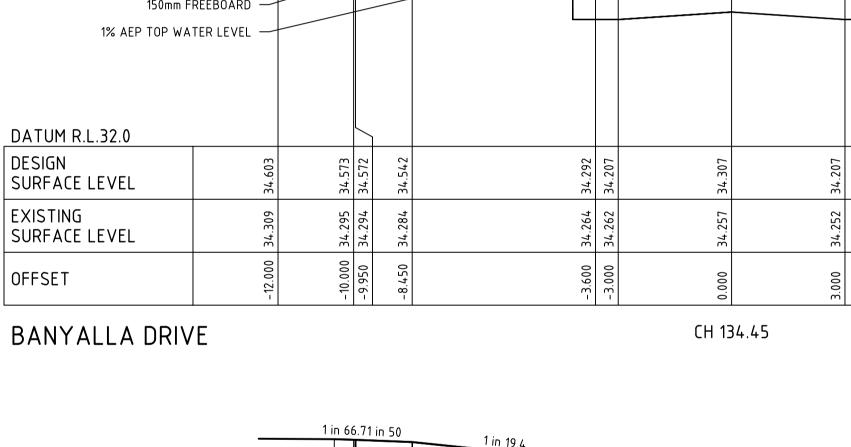


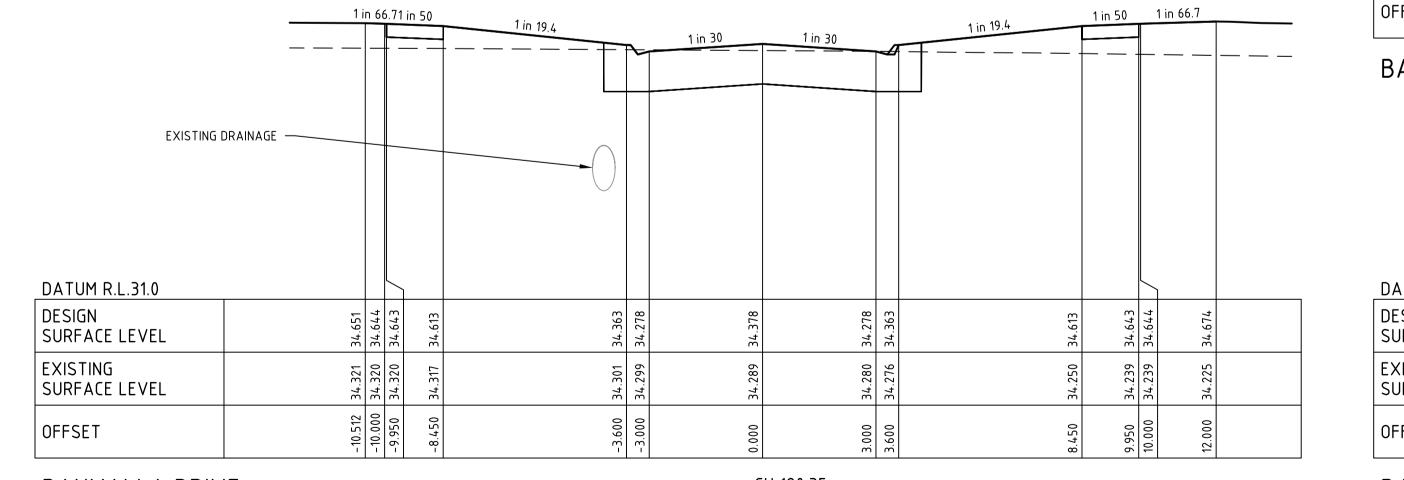












BANYALLA DRIVE

CH 120.35

H 1:100 0 1 2 34 SCALE @ A1 0 0.5 1 1.5 2 2.5 V 1:50 B.W 29/09/22 B.W 01/07/22 B.W 23/03/22 Approved Date

0

ISSUED FOR CONSTRUCTION

B ADDED CH157 TWL

Rev Amendments

A PRELIMINARY ISSUE

WL = 34.453 B = 0.150	OFFSET	-10.000	-9.950	-8.450	
	BANYALLA DRIV	Έ			
			1	in 50	1 in 30
	DATUM R.L.33.0 DESIGN SURFACE LEVEL	34.702	34.701	34.671	
	EXISTING SURFACE LEVEL	34.348	34.348	34.345	
	OFFSET	- 10.000	-9.950	-8.450	

BANYALLA DRIVE

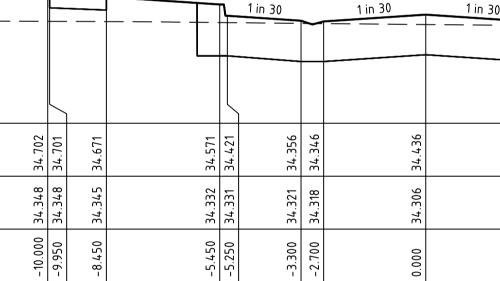
DATUM R.L.33.0

SURFACE LEVEL

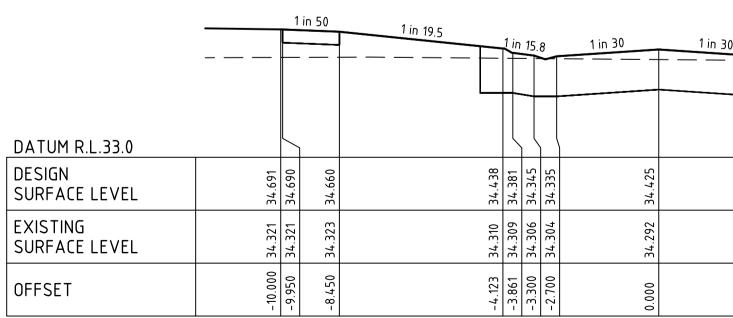
SURFACE LEVEL

DESIGN

EXISTING







BANYALLA DRIVE

CH 158.80

CH 160.96



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Designed M. WRIGHT Authorised B. WAREHAM



Checked B. IBBS Date 29/09/2022

CH 183.58

1 in 30

CH 187.42

6.30m CARRIAGEWAY

5.70m

20.00m ROAD RESERVE

469

34

488

34

300

1 in 30

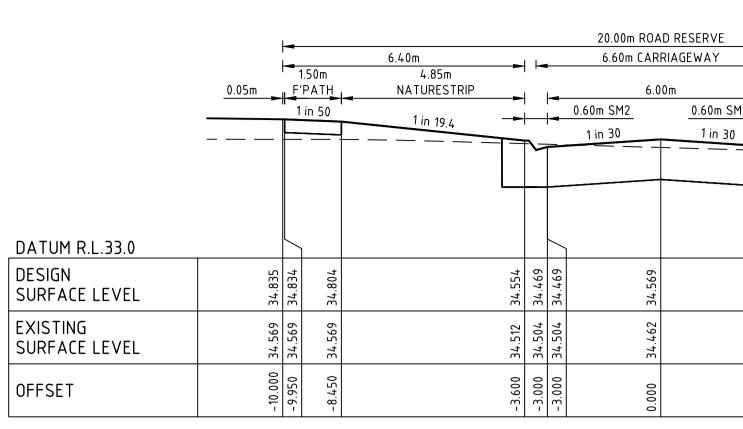
0.60m M2

1 in 30

2.30m

1 in 30

- RAISED INTERSECTION. REFER CR701



4.55m

1 in 50

34.815 34.814

34.529 34.529

0.05m

_ _ _

4.55m 2.50m 1.50m 3.00m PARKING F'PATH NATURESTRIP 1.95m

0.20m B1 1 in 30

34.534

34.510 34.508

-5.450

								4	
				6.4	40m			1	
				4.85m			1.50m	T	
			-	NATUREST	RIP		F'PATH		0.05m
M2				1 · · 10 /		'	1 in 50		
ł				1 in 19.4					
				·					
	_								
	469	554				304	334	335	
	34.469	34.554				34.804	34.834	34.835	
	4 19	34.411				341	34.319	318	
	34.419	34.				34.341	34.	34.318	
	3.000	3.600				8.450	9.950	10.000	
	3.0	3.6				8.4	9.9	10.	

2				1
JEWAY		6.40m		1
		4.85m NATURESTRIP	1.50m F'PATH	0.05m
— 1 in 30	►	0.60m SM2 1 in 19.4	1 in 50	
	\top			
	-			
	34.449 34.534	34.784	34.814	34.815
	34.431 34.426	34.379	34.360	34.359
	3.600 3.600	8.450	9.950	10.000
-				

0		=[-	1 ir	19.4 		1 in 50		
								1
34.336	34.421				34.671	34.701	34.702	
34.293	34.290				34.271	34.268	34.268	
3.000	3.600				8.450	9.950	10.000	

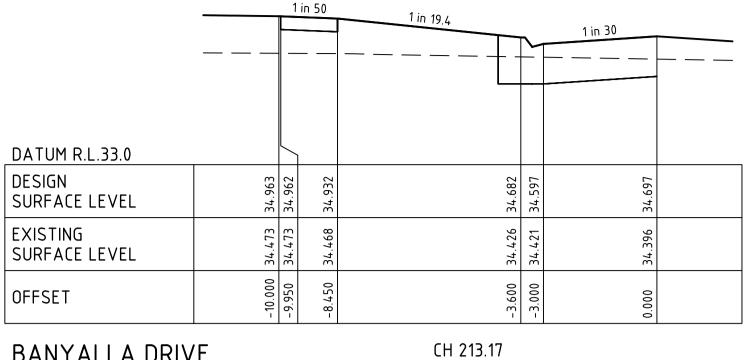
0		1 in 19.4		1 in 50		
34.325	34.410		34.661	34.691	34.692	
34.279	34.276		34.258	34.255	34.254	
3.000	3.600		8.450	9.950	10.000	



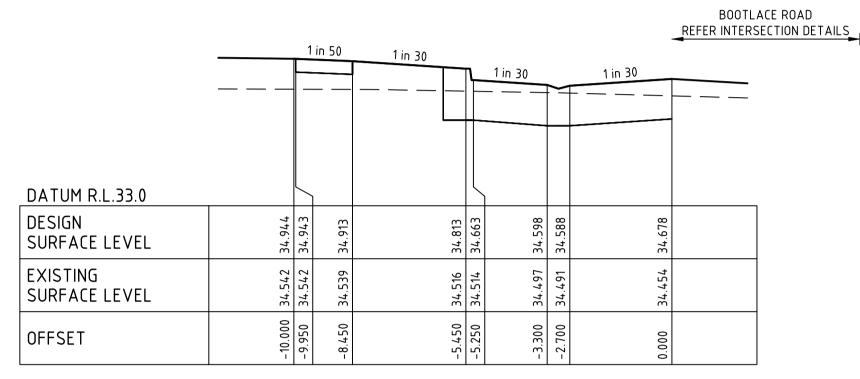
OFFICER CENTRAL STAGE 4 ROAD AND DRAINAGE **ROAD CROSS SECTIONS - SHEET 3** CARDINIA SHIRE YOURLAND PTY LTD

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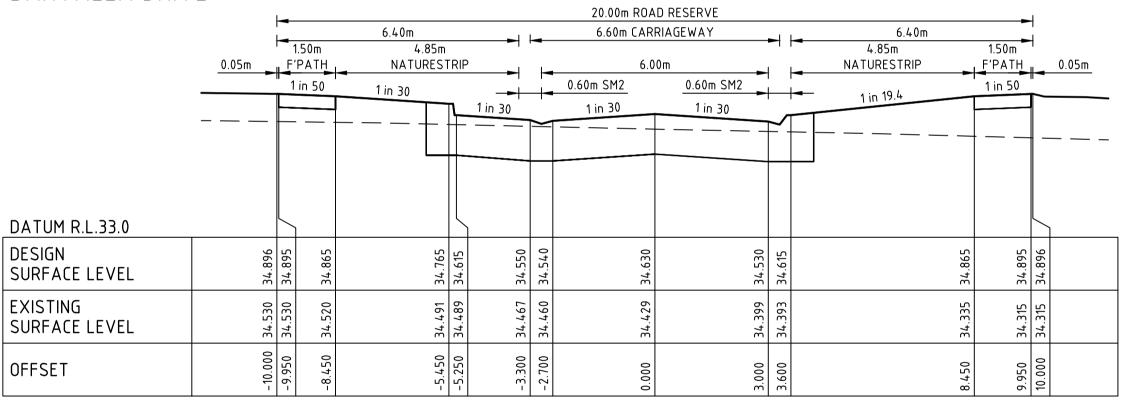


BANYALLA DRIVE



BANYALLA DRIVE

CH 209.33



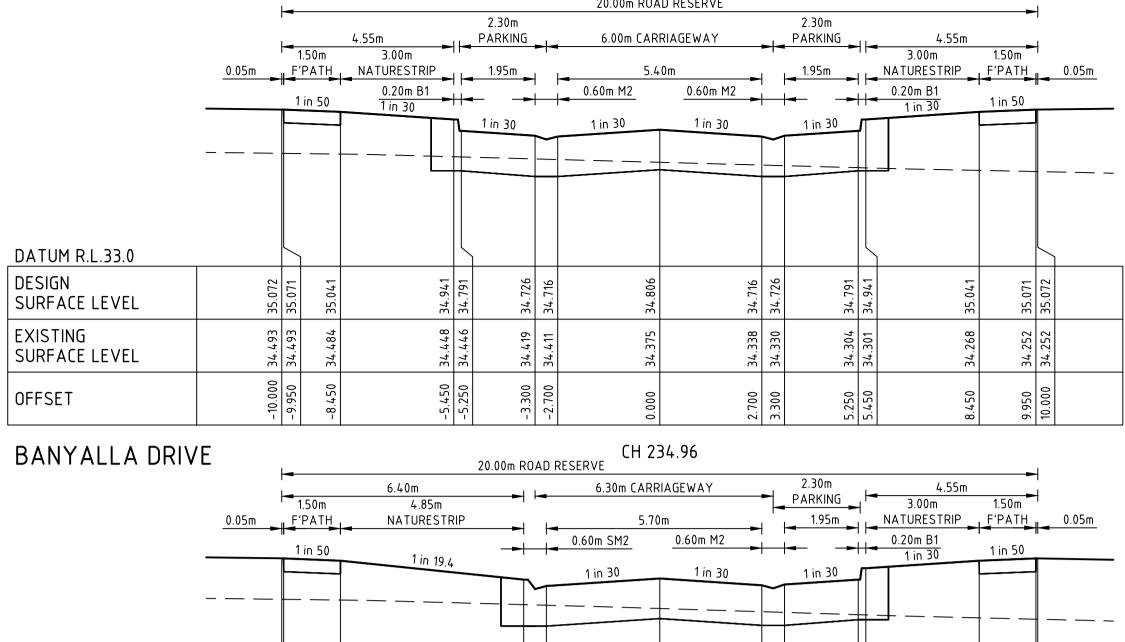
BANYALLA DRIVE CH 199.67 20.00m ROAD RESERVE 6.60m CARRIAGEWAY 6.40m 1.50m 4.85m F'PATH 0.05m NATURESTRIP 6.00m 0.60m SM2 ' 1 in 50 0.60m SM2 1 in 19.4 1 in 30 1 in 30 _ _ _ ____ DATUM R.L.33.0 DESIGN 34.877 34.876 34.511 34.596 SURFACE LEVEL <u> ^ | ☆</u> 34.409 34.404 .458 EXISTING 34.507 34.506 SURFACE LEVEL 34. 34.).000 950 600 OFFSET 3.000 3.600 6 6 m m

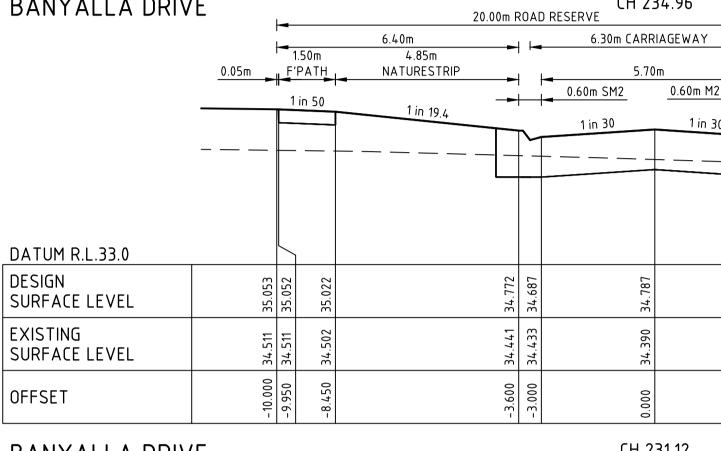
BANYALLA DRIVE

CH 195.84

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ata					Scale								
a/Dat						H 1:100	0	1	2	3	4	5	
						SCALE @ A1		0.5		4.5			
\bendata						V 1:50	0	0.5	I	1.5	Z	2.5	
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:>	0	ISSUED FOR CONSTRUCTION	B.W	29/09/22	1								© Thi
tion	В	ADDED CH195, 209 AND 213. AMENDED CH199	B.W	25/07/22									ber
location	А	PRELIMINARY ISSUE	B.W	23/03/22									reta res
file	Rev	Amendments	Approved	Date									any

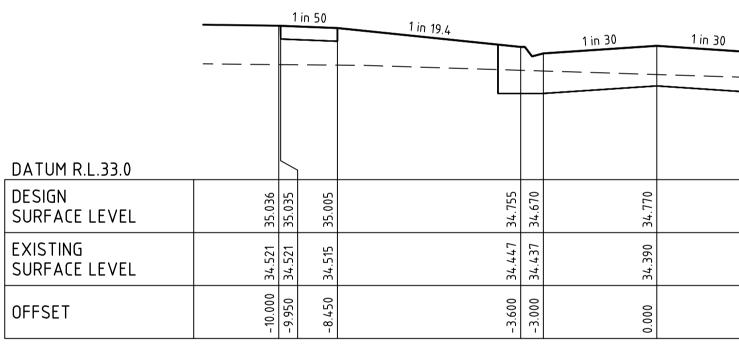


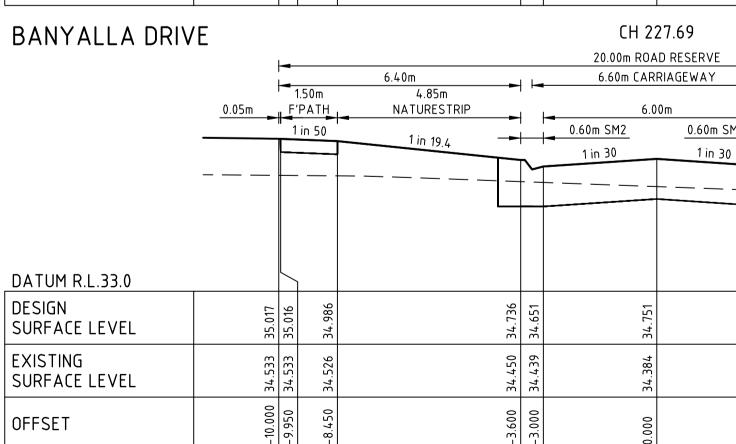












BANYALLA DRIVE

CH 223.86



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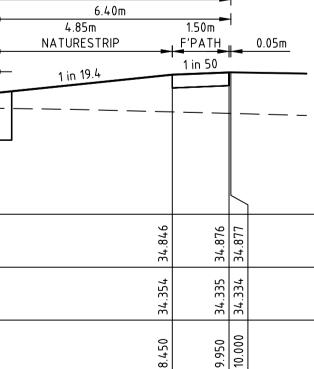


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Designed M. WRIGHT Authorised B. WAREHAM



Checked B. IBBS Date 29/09/2022



2.30m PARKING 1.95m 1.95m 0.20m B1 1 in 30 1 in 50 1 in 30 1 in 50 1 in 30 1 in 50 1 in 30 1 in 50	
1.95m NATURESTRIP F'PATH 0.05m 0.20m B1 1 in 30 1 in 50	
0.20m B1 1 in 30 1 in 30 1 in 50	
	_
	—
34.697 34.707 34.772 34.922 35.022 35.053 35.053	
34.348 34.338 34.308 34.308 34.266 34.266 34.249 34.248	
37	
2.700 3.300 5.250 5.450 8.450 9.950 10.000	
<u> 8 7.7 3.1 10. 1 10. 1 </u>	

				1 in 30		1 in 50		
		1 in 30	/					
							-	
								1
80	90	55	05		05	35	36	
34.680	34.690	34.755	34.905		35.005	35.035	35.036	
48	39	70	01		59	41	11	
34.348	34.339	34.304	34.301		34.259	34.241	34.241	
2.700	3.300	5.250	5.450		8.450	9.950	10.000	
						-		

					6.40)m					
					.85m			1.50m	-1		
	-	ł		NATU	RESTRI	2		F'PATH	-	0.05m	
M2	_		_		10 <i>l</i> .			1 in 50	"		
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	\downarrow										
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	_	9					6				
Ļ	34.651	34.736					34.986	35.016	35.017		
č	ň	34					34	۲ ۲	5		
2	5	8					Υ	ň	t-		
ř	34.329	34.318					34.243	34,225	34.224		
· · · ·	ř	ñ					3/	18	m		
							0	_	0		
6	3.000	3.600					8.450	9.950	10.000		
r	m	m					8	6	-		

OFFICER CENTRAL STAGE 4 ROAD AND DRAINAGE **ROAD CROSS SECTIONS - SHEET 4** CARDINIA SHIRE YOURLAND PTY LTD

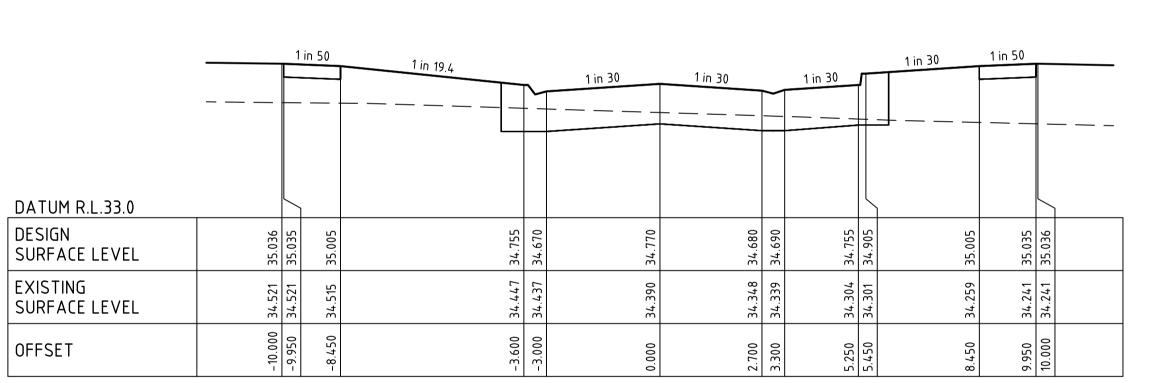
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERT LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDAN AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.

		1						20.00m ROA	D RESERVE			
DERTAKEN USING IRDANCE WITH				4.55m		2.30m PARKING		6.00m CAR	RIAGEWAY			2. PAF
INCIL AND THE ED OF TOPSOIL,	0.05m		50m PATH	3.00m NATURESTRIP		1.95m		5.4	0 m		Ļ	1.
UIRED) TO NGS.		"" 1 i	in 50	0.20m B1 1 in 30	++-	-		0.60m M2	0.60m M2		г —+	
					┖	1 in 30		1 in 30	1 in 30			1
		<u> </u>			\parallel		\sim			_		
DATUM R.L.33.0						1						
DESIGN SURFACE LEVEL	35.072	35.071	35.041	34,941	34.791	34.726	34.716	34.806		34.716	34.726	
EXISTING SURFACE LEVEL	34.493	34.493	34.484	877'78 78	34.446	4 19	34.411	34.375		34.338	34.330	
OFFSET	-10.000	-9.950	-8.450	-5,450	-5.250		-2.700	0.00		2.700	3.300	
BANYALLA DRIV	/E				-	20.00m RO		CH 2	34.96			

DANI ALLA DIVI				20.00)m RO	DAD	RESERVE							-	
				6.40m			6.30m CARR	RIAGEWAY		2.30m		4.55m		-1	
	0.05m	1.! F'F	50m PATH	4.85m NATURESTRIP			5.70)m		PARKING 1.95m		3.00m NATURESTRIP	1.50m F'PATH		0.05m
		- - 1 i	— Г п 50				0.60m SM2	0.60m M2	1 			0.20m B1	1 in 50		
				1 in 19.4		, 	1 in 30	1 in 30	~	1 in 30	T	1 in 30			
			—		\rightarrow	_					-				
				-											
DATUM R.L.33.0		\square									\sum			\sum	L
DESIGN SURFACE LEVEL	35.053	35.052	35.022		34.772	34.687	787.46	34.697		34.772	34.922	35.022	35.052	35.053	
EXISTING SURFACE LEVEL	34.511	34.511	34.502		34.441	34.433	34.390	34.348		34.308	34.305	34.266	34.249	34.248	
OFFSET	-10.000	-9.950	-8.450		-3.600	-3.000	0.000	2.700	3.300	5.250	5.450	8.450	9.950		

BANYALLA DRIVE

CH 231.12



BANYALLA DRIV	E						CH 22			
							20.00m ROA			
				6.40m	-		6.60m CAR	RIAGEWAY		
	0.05m		.50m 2ATH	4.85m NATURESTRIP	_	I I	6.0	0m		
	_	1	in 50	1 :- 10 /	_		0.60m SM2	0.60m SM2	۱ ا	
				1 in 19.4			1 in 30	1 in 30	۔ ح	
									– -	_
DATUM R.L.33.0		L								
DESIGN SURFACE LEVEL	35.017	35.016	34.986		34.736	34.651	34.751	34.651	34.736	
EXISTING SURFACE LEVEL	34.533	34.533	34.526		34.450	34.439	34.384	34.329	34.318	
OFFSET	-10.000	-9.950	-8.450		-3.600	-3.000	0.000	3.000	3.600	

BANYALLA DRIVE

CH 223.86

nan /30						
					Scale	
layout ta\Data					H 1:100 0 1 2 3 4 5 SCALE @ A1	dlcs
2CR400.dwg spiire\bendat					V 1:50 0 0.5 1 1.5 2 2.5	
.00.e						Custom Cartificat
CR4 piire						System Certified
9132 \/s						© Spiire Australia Pty Ltd All Rights Reserved This document is produced by Spiire Australia Pty Ltd solely for the
e 30' tion	0	ISSUED FOR CONSTRUCTION	B.W	29/09/22		benefit of and use by the client in accordance with the terms of the
name 3(locatior	А	PRELIMINARY ISSUE	B.W	23/03/22		retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of
file		Amendments	Approved	Date		any use or reliance by third party on the content of this document.



6.40m

4.85m NATURESTRIP

1 in 19.4

1.50m → F'PATH 0.05m 1 in 50

35.016 35.017

34.225 34.224

9.950 10.000

_ _ _



Designed M. WRIGHT Authorised B. WAREHAM



BANYALLA DRIVE

CH 245.65

Checked

Date

B. IBBS

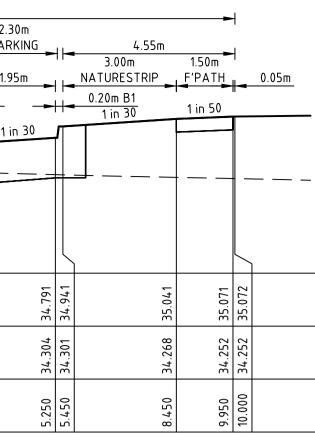
29/09/2022

		1 in 50	1 in 30		1 in 30		1 in 30	1 in 30		1 in 30		1 in 30	1 in 50		
DATUM R.L.33.0	Ļ			K								١		$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	
DESIGN SURFACE LEVEL	35.126 35.126	35.095	34.995	34.845	34.780	34.770	34.860	34.770	34.780	34.845	34.995	35.095	35.125	35.126	
EXISTING SURFACE LEVEL	34.456 21.755	664.46 34.427	34.386	34.385	34.373	34.369	34.352	34.334		34.318	34.317	34.290	34.274	34.273	
OFFSET	-10.000	-8.450	-5.450	-5.250	-3.300	-2.700	0.000	2.700	3.300	5.250	5.450	8.450	9.950	10.000	

BANYALLA DRIVE

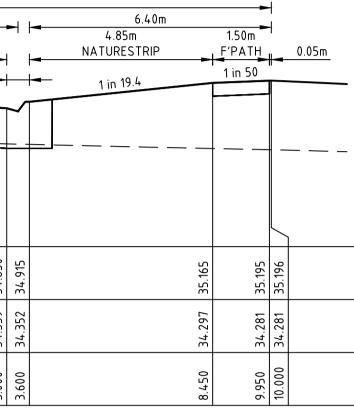
CH 270.50

20.00m ROAD RESERVE



SONT ACE LEVEL	50	[m]	E.			<u>16</u>	Ϋ́	31		ñ	ה ה	ĥ		3		m	
EXISTING SURFACE LEVEL	34.505	34.504	34.488			34.434	34.428	34.394		סז <i>ר ו</i> ר	1. 257	700.40		ר <u>ס</u> ר אר	34.281	34.281	
OFFSET	-10.000	-9.950	-8.450			-3.600	-3.000	0.000			009 2			8 450	9.950	10.000	
BANYALLA DRIV	E	├ ╼ ─			20).00m ROA[D RE	SERVE CH 2	74.33							-1	
	0.05m	F′I ₩ -	50m PATH D	4.55m 3.00m NATURESTRIP <u>0.20m B1</u> 1 in 30	┤┼╼ ┤┼╼ ┼┼╼	2.30m PARKING 1.95m	┝ ┣┤ ┤	6.00m CAR	0m 0.60r		►┤╼ ┝ ┼	2.30m PARKING 1.95m	NAT	4.55m 3.00m URESTRIP 0m B1 1 in 30	1.50m F'PATH 1 in 50	╡ ╢╼╌	0.05m
						1 in 30		1 in 30	1 in	30		1 in 30				-	
DATUM R.L.33.0																	
DESIGN SURFACE LEVEL	35.220	35.219	35.189	35.089	34.939	34.874	34.864	34.954		34.864	34.874	96.939	35.089	אר 180 180	35.219	35.220	
EXISTING SURFACE LEVEL	34.501	34.500	34.481	34.447	34.445	34.424	34.417	34.388		34.359	34.353	34.332	34.330	166 75	34.269	34.268	
OFFSET	-10.000	-9.950	-8.450	-5.450	-5.250	-3.300	-2.700	0.000		2.700	3.300	5.250	5.450	8 450	9.950	10.000	

				6.40m		6.60m CAR	RIAGEWAY
	0.05m		50m PATH_1	4.85m NATURESTRIP	1	6.0	0m
		1 i	in 50		1	0.60m SM2	0.60m SM2
				1 in 19.4		1 in 30	1 in 30
DATUM R.L.33.0		\mathbb{N}					
DESIGN SURFACE LEVEL	35.196	35.195	35.165	34.915	34.830	0E6.4E	34.830
EXISTING SURFACE LEVEL	34.505	34.504	34.488	7E4.434	34.428	46E.4E	34.359
OFFSET	-10.000	-9.950	-8.450	009.E-	-3.000	0.000	3.000





OFFICER CENTRAL STAGE 4 ROAD AND DRAINAGE ROAD CROSS SECTIONS - SHEET 5 CARDINIA SHIRE YOURLAND PTY LTD

ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.

ROUNDABOUT.

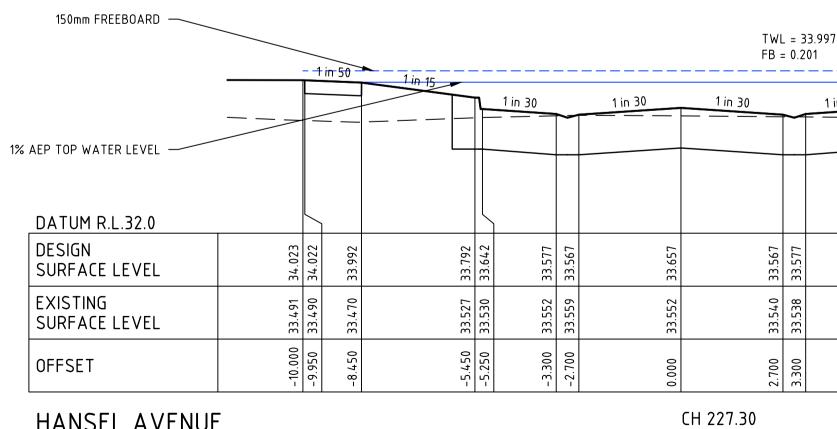
5.		1 in 30	_	
				-
DATUM R.L.33.0				
DESIGN SURFACE LEVEL	34.490	06E.4E	34.475	
EXISTING SURFACE LEVEL	33.969	34.007	34.011	-
OFFSET	0.000	3.000	3.600	-

HANSEL AVENUE						20.00m RO	AD RESERVE			
		, 		6.55m	╼┤┼	6.60m CA	RRIAGEWAY		╺┥┟	
150mm FREEBOARD	0.05m		50m PATH	5.00m NATURESTRIP		6	00m		 F	
		1		-		0.45m B2	0.60m SM2			-
			in-50 -		Ţ	1 in 30	1 in 30		~	
1% AEP TOP WATER LEVEL				L						
DESIGN SURFACE LEVEL	34.061	34.060	34.030		793.697	רטניני		33.587	33.672	
EXISTING SURFACE LEVEL	33.547	33.546	33.521		33.573	#10.00 793 FF		33.556	33.554	
OFFSET	- 10.000	-9.950	-8.450		-3.450			3.000	3.600	

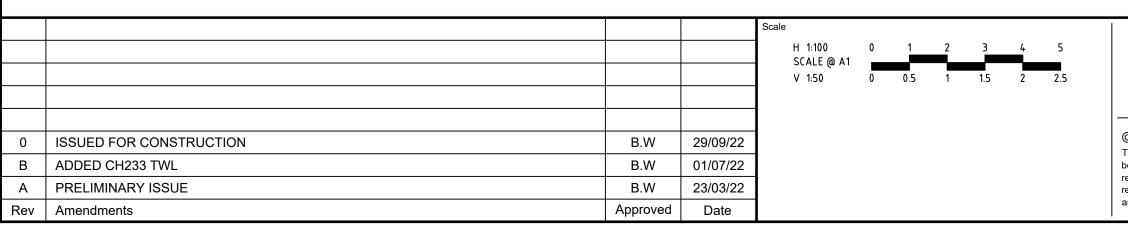
CH 233.19 HANSEL AVENUE 20.00m ROAD RESERVE 2.30m 4.55m 6.00m CARRIAGEWAY **|**− 1.50m PAF 3.00m 0.05m 5.40m ____ |∢_' 0.60m M2 0.60m M2 0.20m B1 1 in 50 1 in 15 1 in 30 1 in 30 1 in 30 DATUM R.L.32.0 DESIGN 33.803 33.653 34.034 34.033 33.588 33.578 33.578 33.588 EOO SURFACE LEVEL 34 33.536 33.538 EXISTING 33.510 33.510 33.546 33.544 33.560 33.564 SURFACE LEVEL -5.450 -10.000 -9.950 -3.300 -2.700 450 OFFSET 2.700 3.300

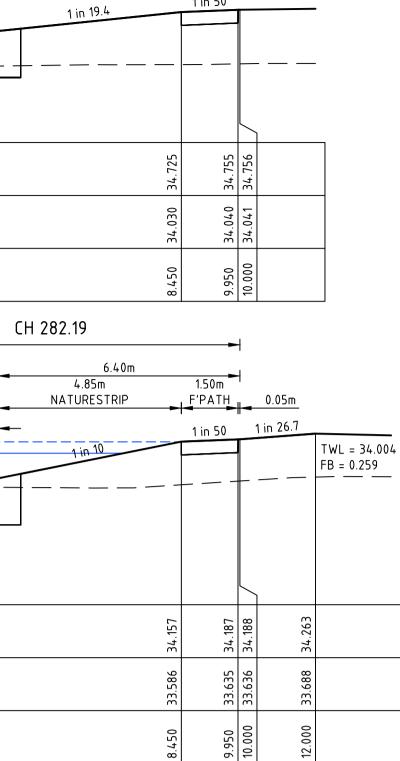
HANSEL AVENUE

CH 229.35









1 in 50

					4		
.30m		4.55m	n			0.05m	
RKING 95m		3.00m NATURESTRIP		1.50m F'PATH			
_	- -	0.20m B1 1 in 10		1 in 50		1 in 26.7	
in 30							
33.653	33.803		34.103	34.133	34.134	34.209	
33.536	33.536		33.567	33.615	33.617	33.650	
5.250	5.450		8.450	9:950	10.000	12.000	

97							
				<u>1 in 50</u>		1 in 26.7	
		1 in 10					
l in 30	/	\square					
33.642	33.792		34.092	34.122	34.123	34.198	
33.533	33.533		33.557	33.604	33.605	33.629	
5.250	5.450		8.450	9.950	10.000	12.000	

	<u> 1 in 50 </u>	1 in 26.7		
1 in 10				
		5		 DATU
CDU 75	34.122	34.123	061.40	DESIG SURF
33 CC 7	33.604	33.605	620.CC	EXIST SURF
ר ג גר	9.950	10.000	000.71	OFFSI
				 ΗΔΝ

OFFSET						-3.000	0.000	000 E	3.600		8.450	9.950	10.000
HANSEL AVENUE							20.00m ROA	C D RESERVE	H 2'	95.71			4
-	0.05m	F′F ∦◀	50m PATH in 50	6.55m 5.00m NATURESTRIP 1 in 30		┤╎╼╸ ┤ ┝ ┼──┼	6.60m CARF 6.00 0.45m B2 1 in 30		- - - - -	6.40m 4.85m NATURESTRIP 1 in 19.4		1.50m F'PATH 1 in 50	¦ ¦0.05m
-													·
DATUM R.L.33.0		L											
DESIGN SURFACE LEVEL	34.871	34.870	34.840		34.673	34.563	34.663	295 7E	34.648		34.898	34.928	34.929
EXISTING SURFACE LEVEL	34.083	34.080	33.988		33.968	33.977	34.047	34.102	34.107		34.132	34.126	34.125
OFFSET	-10.000	-9.950	-8.450		-3.450	-3.000	000.0	000 E	3.600		8.450	9.950	10.000
							ርዘ 28	39 12					

HANSEL AVENUE

CH 289.12

HANSEL AVENUE							20.00m	ROA	
		' ▲ .	1 5 0	6.55m 5.00m		┨┞╼━	6.60m (CARF	-
	0.05m		1.50m ′PATH_	NATURESTRIP		4 4		6.0	(
		1	in 50	1 in 30		+	0.45m B2		
						μ	1 in 30		•
DATUM R.L.33.0			1						_
DESIGN SURFACE LEVEL	ער 178 178 178	34.870	34.840		34.673	34.563		34.663	
EXISTING SURFACE LEVEL	280 7E	34.080	33.988		33.968	33.977		34.047	
OFESET	000	950	450		450	000		00	

DATUM R.L.33.0								٦
DESIGN SURFACE LEVEL	34.616	34.716	34.616	34.701	34.951	37.081	34.982	
EXISTING SURFACE LEVEL	34.110	34.131	34.150	34.153	34.172	121 JE	34.171	
OFFSET	-3.000	0.000	000 E	3.600	8.450	9 0E.0	10.000	
HANSEL AVENUE		20.00m ROA	D RESERVE	129	95.71			

1 in 30

1 in 30

FUTURE ROAD. REFER INTERSECTION DETAILS

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System Certified

16 BRIDGE STREET BENDIGO VICTORIA 3550 AUSTRALIA T 61 3 5448 2500 ABN 55 050 029 635 spiire.com.au

spire

Designed M. WRIGHT Authorised B. WAREHAM



29/09/2022

CONSTRUCTION 309132CR405



1 in 50

1 in 19.4

2												
ALA				Scale								
					1:100 CALE @ A1	0	1	2	3	4	5	
					' 1:50	0	0.5	1	1.5	2	2.5	
				1								
				1								-
				1								C TI
0	ISSUED FOR CONSTRUCTION	B.W	29/09/22	1								be
A	PRELIMINARY ISSUE	B.W	23/03/22									re re
Rev	Amendments	Approved	Date									ar

34.742 34.741

34.126 34.126

-8.000 -7.950

450

1 in 50 ____

BOOTLACE ROAD

DATUM R.L.33.0

SURFACE LEVEL

SURFACE LEVEL

BOOTLACE ROAD

DESIGN

EXISTING

OFFSET

CH 209.29

CH 195.62

1 in 30

1 in 30

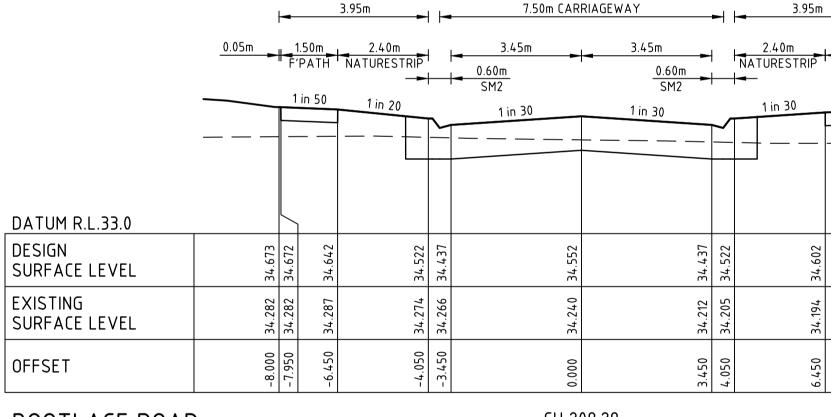
34.506 34.591

050

34.

3.450 4.050

16.00m ROAD RESERVE



1 in 20

34.591 34.506

34.093 34.086

-4.050 -3.450

MESSMATE STREET

----DATUM R.L.33.0 DESIGN 34.536 34.487 34.486 SURFACE LEVEL 2 2 37 37 EXISTING 094 080 1106 SURFACE LEVEL 34. 34. 34. 34. .484 .000 .950 .050 .450 OFFSET 3.450 4.050 ∞|∞|Γ CH 192.51

RDANCE WITH INCIL AND THE ED OF TOPSOIL, UIRED) TO NGS.			1.50m	3.95m 2.40m NATURESTRIP	┤╶┝╸	16.00m ROAI 7.50m CARF 3.45m	RIAGEWAY 3.45m	- ►- -	3.95m		l 	
		<u>1 in 10</u>	1 in 50	1 in 30		0.60m SM2 <u>1 in 30</u>	0.60m SM2 1 in 30			1 in 50	1 in 10	
DATUM R.L.33.0												
DESIGN SURFACE LEVEL	34.603	34.403	34.402 34.372	34.292	34.207	34.322	34.207	34.292	34.372	34.402	34.403 34.603	
EXISTING SURFACE LEVEL	34.205		34.204 34.194	34.195	34.205	34.247	34.243		34.234		34.226 34.230	
OFFSET	-10.000		-7.950 -6.450	-4.050	-3.450	0.00.0	3.450		6.450		8.000	
MESSMATE STRE	ET					CH 20	9.25					
		T	1 in 50	1 in 30	Γ	1 in 30	1 in 30		1 in 30	1 in 50		

FILLING NOTE

ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF CO SUPERINTENDENT. FILL AREAS ARE TO BE STRIPP FILLED AND REPLACED WITH TOPSOIL (WHERE REC OBTAIN THE FINAL LEVELS SHOWN ON THE DRAW

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spire 16 BRIDGE STREET BENDIGO VICTORIA 3550 AUSTRALIA T 61 3 5448 2500 ABN 55 050 029 635 spiire.com.au

Designed M. WRIGHT Authorised B. WAREHAM

-8.000 -7.950



Checked

Date

B. IBBS

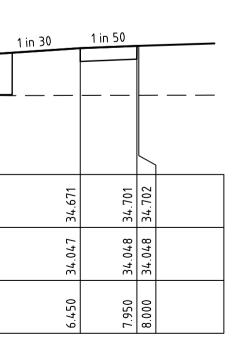
29/09/2022

-4.050 3

DAISY STREET

OFFSET

СН	191.



	1 in 50		
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		\leq	1
02	32	33	
34.194 34.602	34.632	9 . 4	
94	34.193	34.193	
4.1	4.1	4.1	
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6.450	7.950	8.000	
 9	7.9	Θ	

. 150m 0.05m

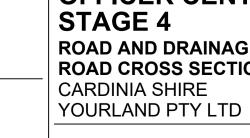
 	— —		
34.456	34.486	34.487	
34.096 34.456	34.105		
6.450	7.950	8.000	

		1	in 50	1 in 30	-	1 in 30		_
DATUM R.L.33.0			l					
DESIGN SURFACE LEVEL	34.309	34.308	34.278	34.198	34.113		34.228	
EXISTING SURFACE LEVEL	33.879	33.876	33.922	33.978	33.989		34.020	

DAISY STREET

		 		3.95m	-	7.50m CAR	RIAGEWAY	-] _ 3.95m		ł	
		0.05m	1.50m F'PATH	2.40m NATURESTRIP	ł ł	3.45m	3.45m 0.60m		2.40m	1.50m F'PATH	0.05m	
		1 in 13.3	1 in 50	1 in 30	├	0.60m SM2 1 in 30	<u> </u>	- ► -	<u> </u>	1 in 50	1 in 13.3	
DATUM R.L.33.0		Ĺ										
DESIGN SURFACE LEVEL	69£.46	34.219	34.218 34.188	34.108	34.023	34.138		34.023 34.108	34.188	34.218	34.219 34.369	
EXISTING SURFACE LEVEL	34.061	34.016	34.015 34.023	34.097	34.101	34.126		34.150 34.154	34.151	34.130	34.130 54.130	
OFFSET	-10.000	-8.000	-7.950 -6.450	-4.050	-3.450	0.000		3.450	6.450	7.950	8.000	





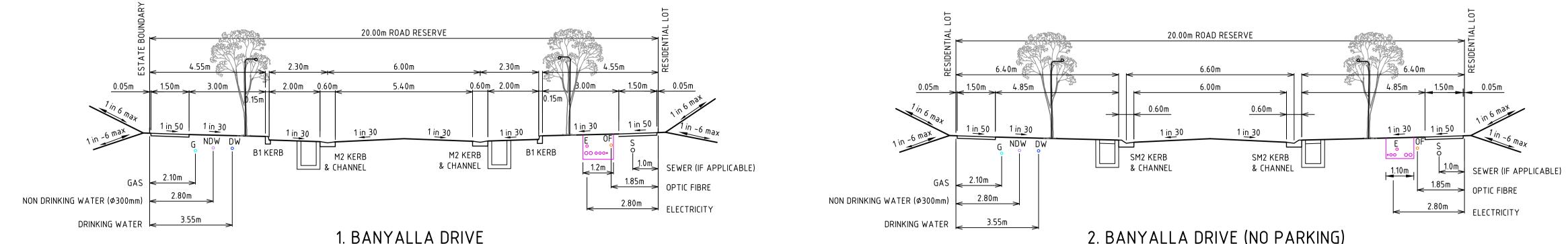
OFFICER CENTRAL ROAD AND DRAINAGE ROAD CROSS SECTIONS - SHEET 7 CARDINIA SHIRE

1.15

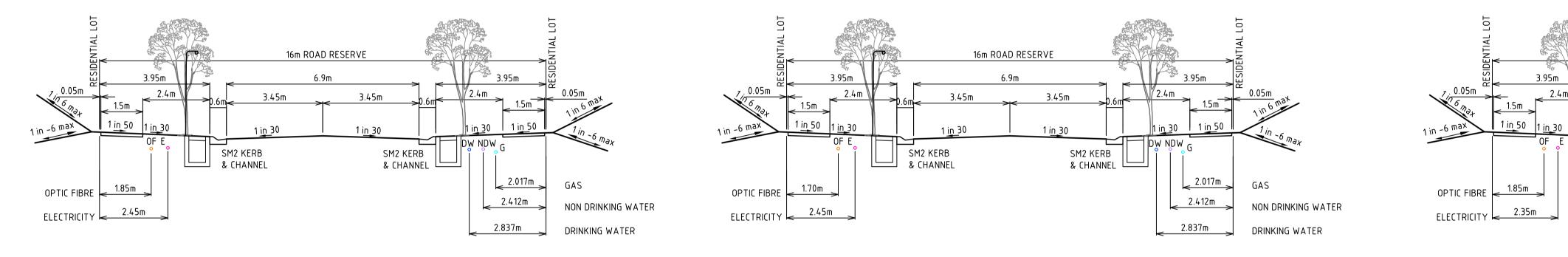
1 in 30			1 in 3	0	1 in 50			
	Ŧ	-						
	34.113	34.198		34.278	34.308	34.309	34.329	
	33.984	33.979		33.964	33.983	33.984	33.990	
	3.450	4.050		6.450	7.950	8.000	8.259	

CH 209.22

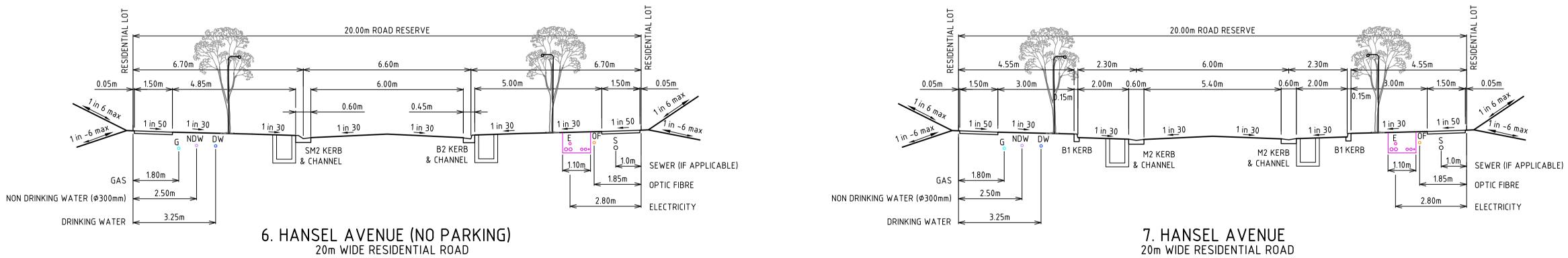
16.00m ROAD RESERVE

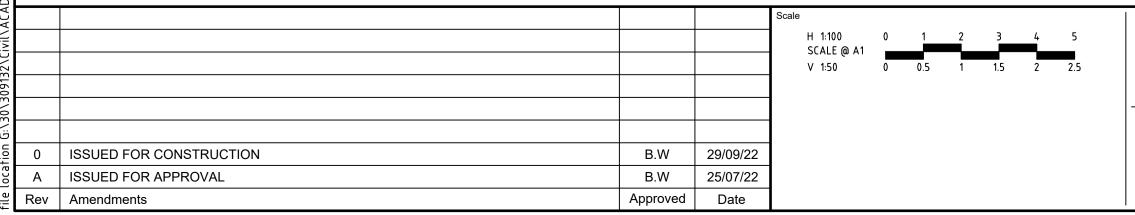


1. BANYALLA DRIVE 20m WIDE RESIDENTIAL ROAD



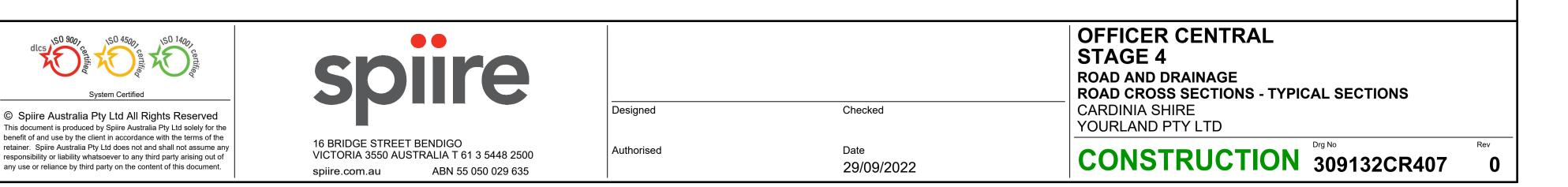
3. BOOTLACE ROAD 16m WIDE RESIDENTIAL ROAD

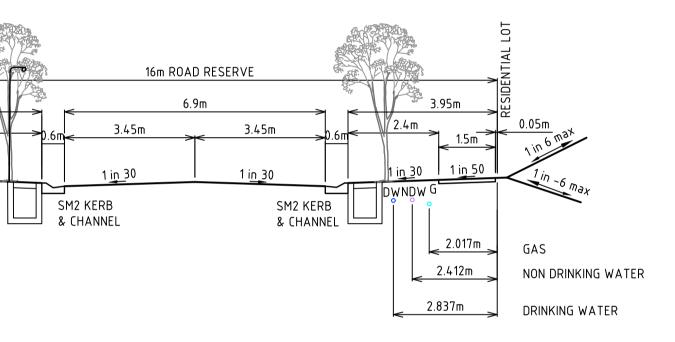




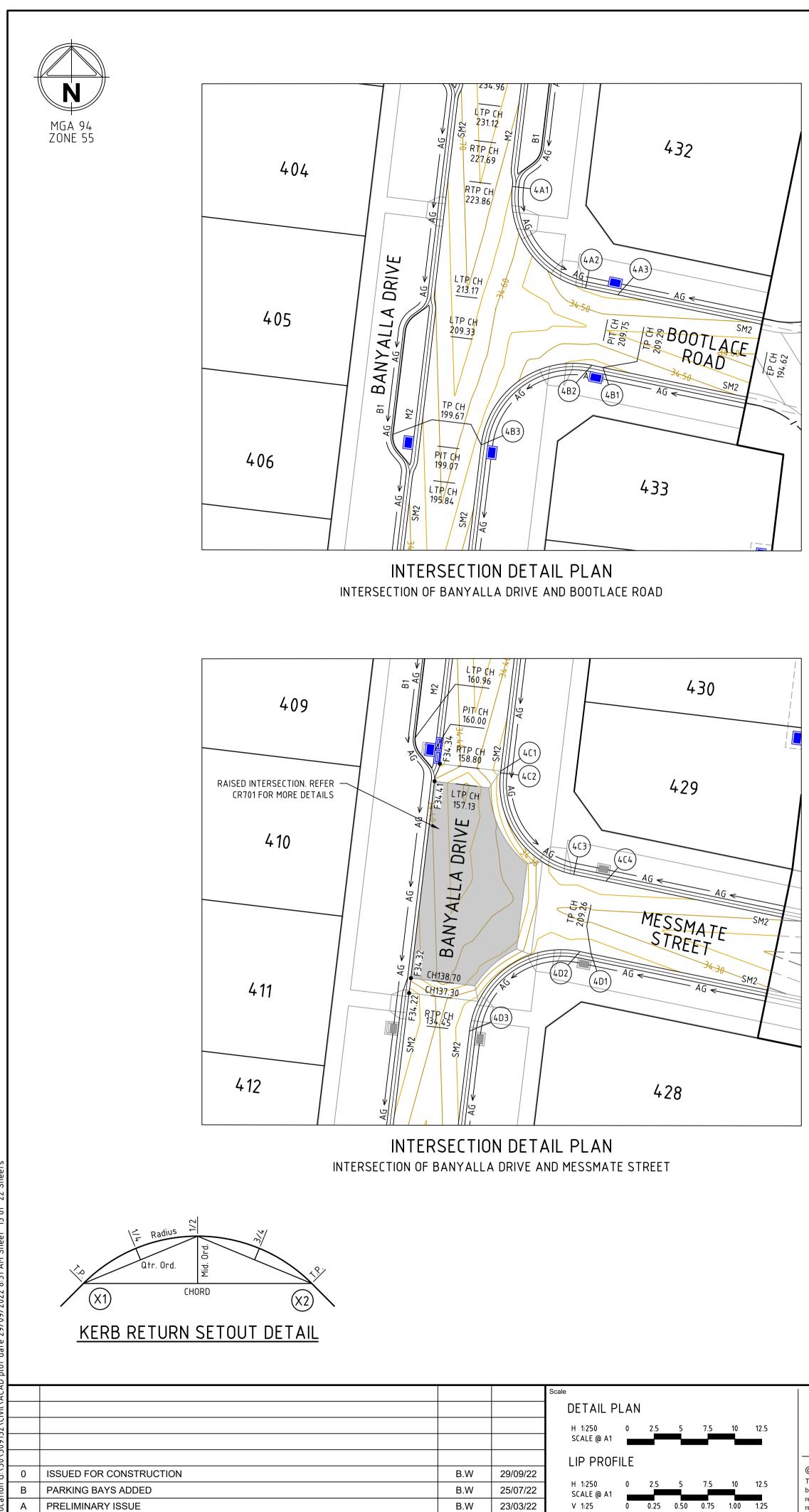
ted by Sourav Si 19/2022 8:51 AM 5 4040404 00+00 8 G 2. BANYALLA DRIVE (NO PARKING) 20m WIDE RESIDENTIAL ROAD

4. MESSMATE STREET 16m WIDE RESIDENTIAL ROAD





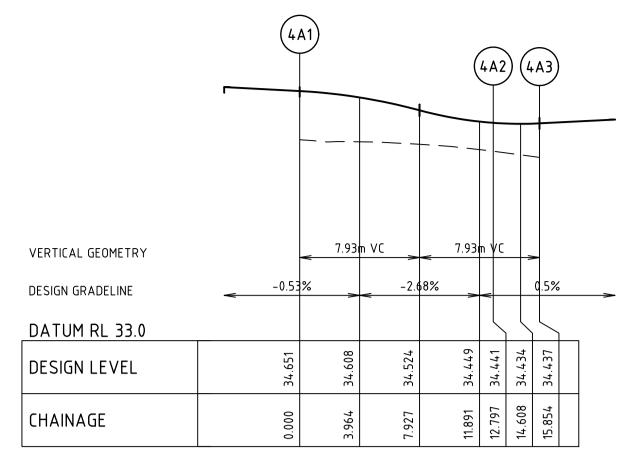
5. DAISY STREET 16m WIDE RESIDENTIAL ROAD



Approved

Date

Rev Amendments



ALIGNMENT 4A

ALIGNMENT 4A

POINT NO	EASTING	NORTH	NG	RL	CHAINAGE
4A1 ¼ ½ ¼ 4A2 4A3	359460.414 359460.625 359461.975 359464.280 359467.224 359470.218	5785410 5785407 5785404 5785401 5785400 5785400	2.034 4.153 .961 0.756	34.651 34.620 34.561 34.484 34.441 34.437	0.000 3.199 6.399 9.598 12.797 15.854
CURVE 4A1-4A2	RADIUS 8.600	ARC L 12.797	CHORD 11.649	MID ORD 2.273	QTR ORD 0.588

	4	c1) 4c2)	(403	404
VERTICAL GEOMETRY		8.0		<u> </u>	n VC	>
DESIGN GRADELINE	-0.5	%	-0.	7%	-0.5%	>< 0.5% >
DATUM RL 33.0						
DESIGN LEVEL	34.325	34.325 34.301	34.267	34.232	34.226	80.2.46
CHAINAGE	0.000	0.163 4.004	8.009	12.013	12.960	10.01

ALIGNMENT 4C

ALIGNMENT 4C

POINT NO	EASTING	NORTHIN	5	RL	CHAINAGE
4C1 4C2 ¼ ½ ¾ 4C3 4C4	359452.646 359452.627 359452.838 359454.188 359456.493 359459.436 359462.431	5785345.6 5785345.4 5785342.2 5785339.3 5785337.2 5785336.0 5785335.3	51 77 97 04 00	34.325 34.325 34.305 34.280 34.250 34.226 34.208	0.000 0.163 3.362 6.562 9.761 12.960 16.017
CURVE 4C2-4C3	RADIUS 8.600	ARC L 12.797	CHORD 11.649	MID ORD 2.273	QTR ORD 0.588

CURVE 4D2-4D3



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spiire.com.au ABN 55 050 029 635

Designed M. WRIGHT Authorised B. WAREHAM



Checked B. IBBS Date 29/09/2022

VERTICAL GEOMETRY

DATUM RL 33.0 DESIGN LEVEL

CHAINAGE

ALIGNMENT 4D

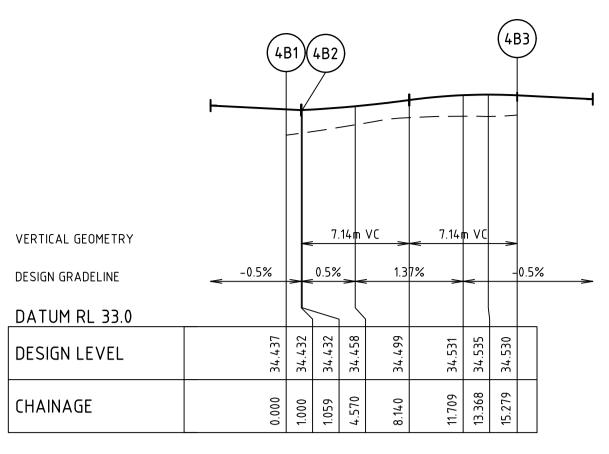
ALIGNMENT 4D

POINT NO EASTING

4D1 4D2 1⁄4 1⁄2 1⁄2 1⁄2 4D3	359461.044 359460.007 359456.477 359453.251 359450.871 359449.740
100	557 1 17.7 1

RADIUS

8.600



ALIGNMENT 4B

CHAINAGE

ALIGNMENT 4B

POINT NO EASTING

359468.831 359467.794

359464.264

359461.038

359458.658

359457.527

RADIUS

8.600

4B1

4B2

1/2

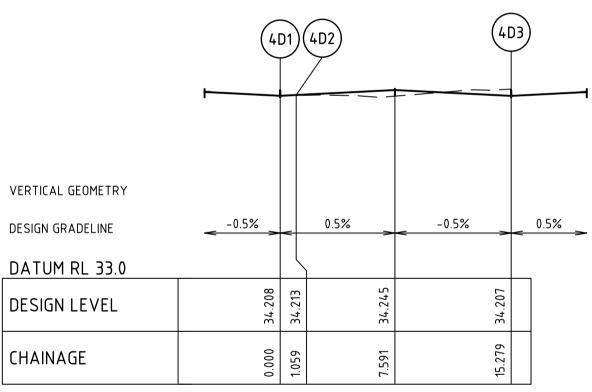
1/2

¾ 4B3

CURVE

4B2-4B3

NORTI	HING	RL	CHAINAGE
578539 578539 578539 578539 578538 578538 578538	93.595 93.580 92.148 99.541	34.437 34.432 34.458 34.499 34.531 34.530	0.000 1.059 4.614 8.169 11.724 15.279
ARC L 14.221	CHORD 12.655	MID ORD 2.776	QTR ORD 0.724



NORTH	HING	RL	CHAINAGE
578532 578532 578532 578532 578532 578532 578532	8.839 8.824 7.392 4.785	34.208 34.213 34.231 34.243 34.225 34.207	0.000 1.059 4.614 8.169 11.724 15.279
ARC L 14.220	CHORD 12.655	MID ORD 2.776	QTR ORD 0.724

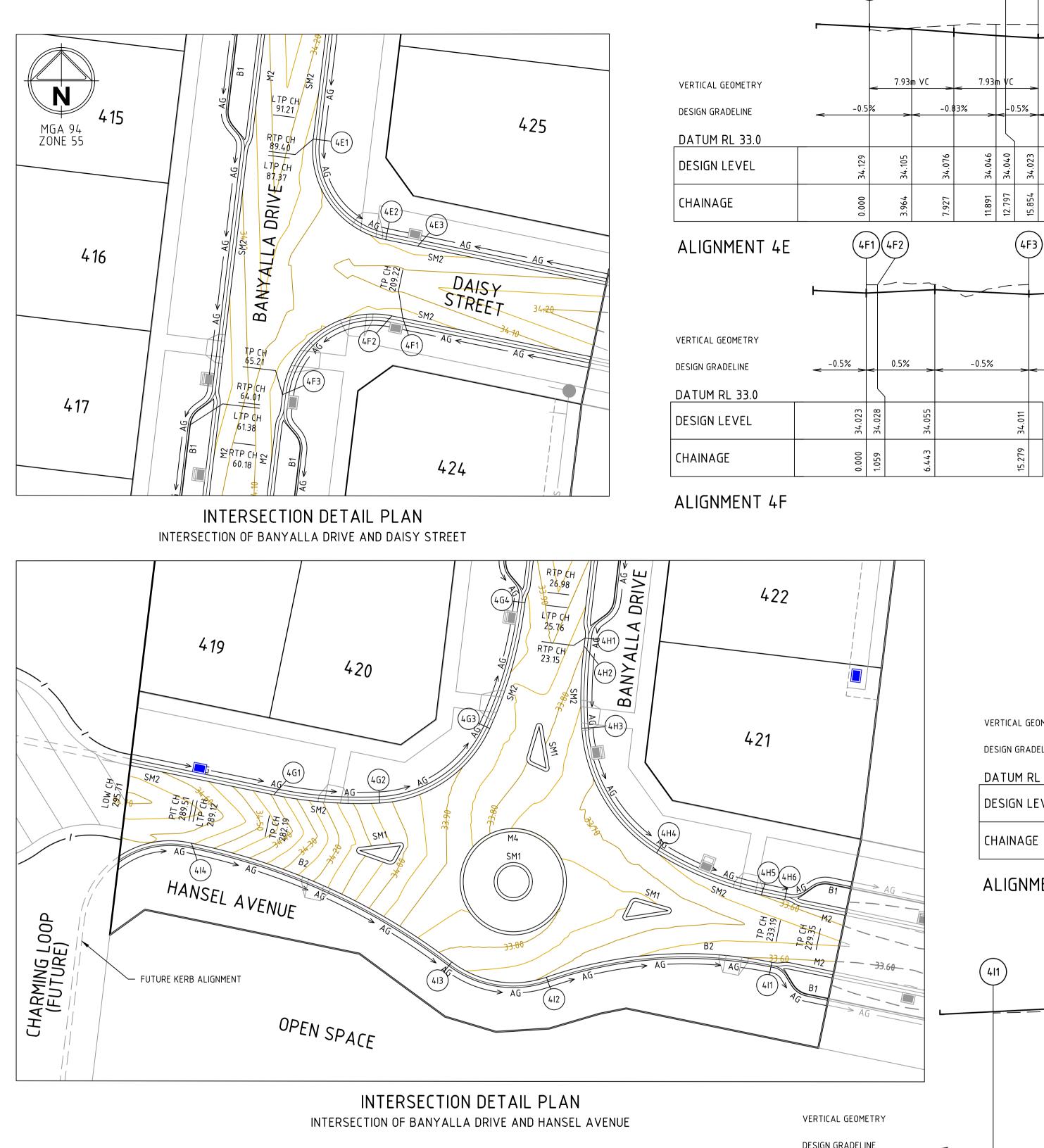


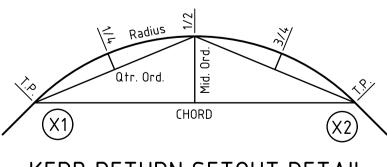
OFFICER CENTRAL STAGE 4

ROAD AND DRAINAGE **INTERSECTION DETAILS - SHEET 1** CARDINIA SHIRE YOURLAND PTY LTD

CONSTRUCTION 309132CR500

Rev 0







				Scale
				DETAIL PLAN
				H 1:250 0 2.5 5 7.5 10 12.5 SCALE @ A1
				LIP PROFILE
				Н 1:250 0 2.5 5 7.5 10 12.5
0	ISSUED FOR CONSTRUCTION	B.W	29/09/22	SCALE @ A1
А	PRELIMINARY ISSUE	B.W	23/03/22	V 1:25 0 0.25 0.50 0.75 1.00 1.25
Rev	Amendments	Approved	Date	



spire 16 BRIDGE STREET BENDIGO VICTORIA 3550 AUSTRALIA T 61 3 5448 2500 ABN 55 050 029 635 spiire.com.au

Designed M. WRIGHT Authorised B. WAREHAM



Checked

Date

B. IBBS

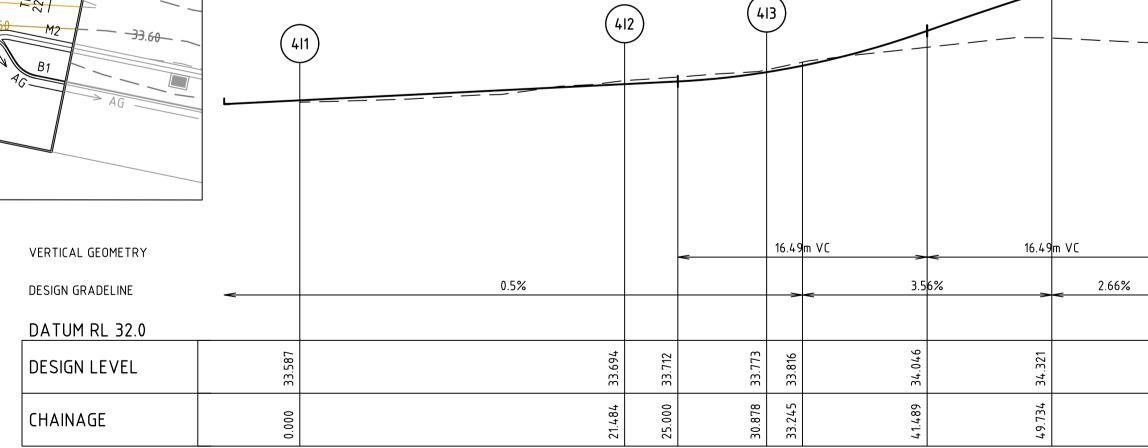
29/09/2022

(4|4)

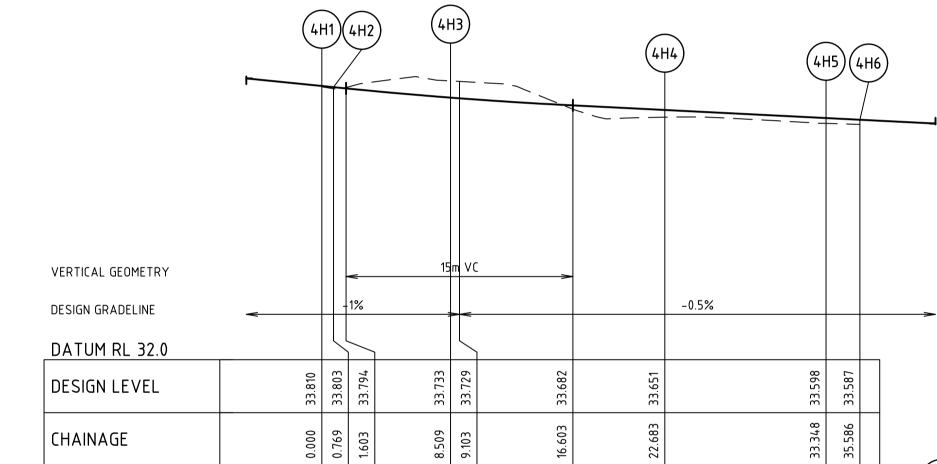
1.66%

57.979

ALIGNMENT 41



ALIGNMENT 4H



						VERTICAL GEOMETRY
ALIGN	MENT 4F					DESIGN GRADELINE
						DATUM RL 32.0
POINT N	IO EASTING	NORT	HING	RL	CHAINAGE	DESIGN LEVEL
4F1	359452.778	578525	59.884	34.023	0.000	
4F2	359451.741	578526	50.097	34.028	1.059	
1/4	359448.211	578526	50.082	34.046	4.614	CHAINAGE
1/2	359444.985	578525	58.650	34.046	8.169	
¥4	359442.605	578525	56.043	34.029	11.724	
4F3	359441.473	578525	52.700	34.011	15.279	
						ALIGNMENT 4G
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD	
4F2-4F	3 8.600	14.220	12.655	2.776	0.724	

CHAINAGE

0.000

3.199

6.399

9.598 12.797 15.854

QTR ORD

0.588

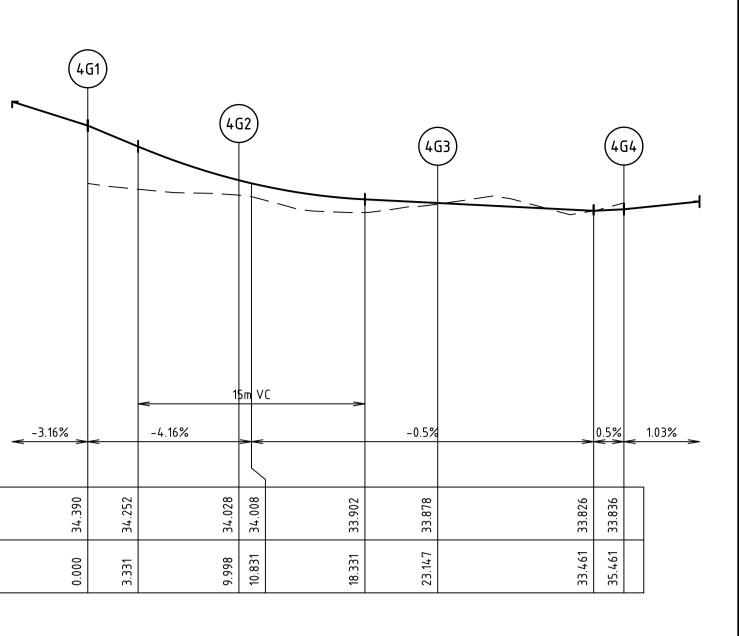
	POINT NO	EASTING	NORTH	HING	RL
	4E1	359444.361	578527	6.709	34.129
	1/4	359444.571	578527	3.535	34.110
0.5%	1/2	359445.922	578527	0.655	34.088
	¥.	359448.226	578526	8.463	34.062
	4E2	359451.170	578526	7.258	34.040
	4E3	359454.165	578526	6.643	34.023
	CURVE	RADIUS	ARC L	CHORD	MID ORD
	4E1-4E2	8.600	12.797	11.649	2.273

- ALIGNMENT 4E

(4E2) (4E3)

0.5%

(4E1)



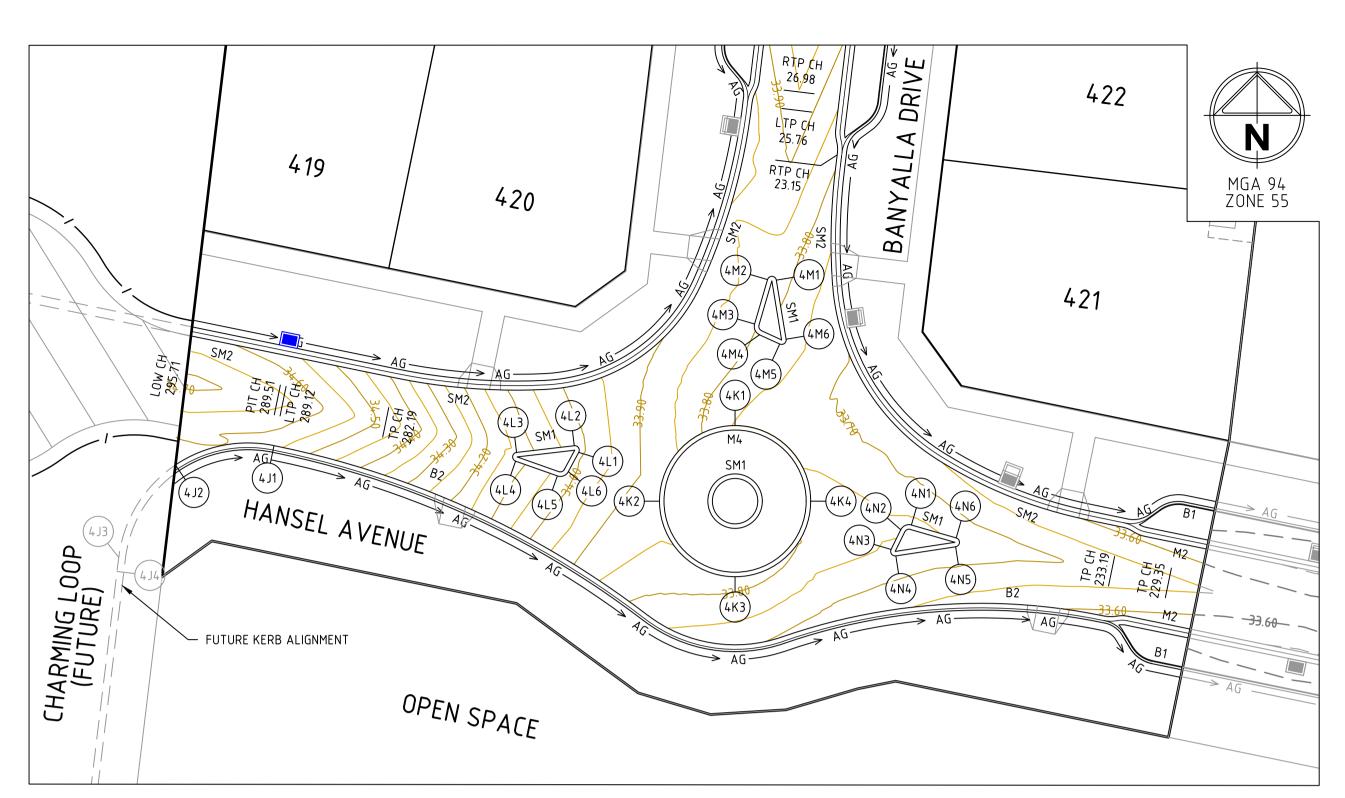
ALIGNMENT 4G

POINT NO	EASTING	NORTI	HING	RL	CHAINAGE
4G1 ¼ ½ 4G2 ¼ 4G3 ¼ ½ ¾ 4G3 ¼ ¼ 4G4	359407.200 359409.663 359412.147 359414.643 359420.364 359423.302 359425.739 359425.739 359427.492 359428.659 359428.659 359429.604 359430.321 359430.806	5785196.197 5785195.771 5785195.385 5785195.425 5785195.425 5785197.477 5785199.668 5785202.436 5785205.284 5785208.213 5785211.206 5785214.246		34.390 34.286 34.186 34.099 34.028 33.958 33.915 33.894 33.878 33.863 33.863 33.847 33.832 33.836	0.000 2.500 4.999 7.499 9.998 13.285 16.573 19.860 23.147 26.225 29.304 32.383 35.461
CURVE 4G1-4G2 4G2-4G3 4G3-4G4	RADIUS 40.000 12.000 40.000	ARC L 9.998 13.148 12.314	CHORD 9.973 12.500 12.266	MID ORD 0.312 1.756 0.473	QTR ORD 0.078 0.447 0.118
ALIGNM	ENT 4H				
POINT NO	EASTING	NORTI	HING	RL	CHAINAGE
4H1 4H2 ½ ½ 4H3 ½ 4H4 ½ ¼ 4H4 ½ ½ 4H5 4H6	359436.450 359436.359 359436.164 359436.061 359436.052 359436.137 359436.791 359438.240 359440.403 359445.483 359445.483 359447.911 359450.428 359453.013 359455.203	578521 578520 578520 578520 578520 578519 578519 578519 578519 578519 578518 578518 578518 578518 578518	10.170 08.245 06.313 04.378 02.445 18.971 15.747 12.951 10.739 19.429 18.331 17.453 16.802	33.810 33.803 33.783 33.765 33.749 33.733 33.708 33.687 33.669 33.651 33.625 33.611 33.598 33.587	0.000 0.769 2.704 4.639 6.574 8.509 12.053 15.596 19.139 22.683 25.349 28.015 30.682 33.348 35.586
CURVE 4H2-4H3 4H3-4H4 4H4-4H5	RADIUS 40.000 15.000 30.000	ARC L 7.740 14.173 10.666	CHORD 7.728 13.652 10.610	MID ORD 0.187 1.643 0.473	QTR ORD 0.047 0.417 0.118
ALIGNM	ENT 41				
POINT NO	EASTING	NORTI	HING	RL	CHAINAGE
411 1% 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/4	359453.997 359448.679 359443.312 359437.993 359432.817 359430.526 359428.185 359425.936 359423.916 359418.318 359412.326 359406.017 359399.471	578518 578518 578518 578517 578517 578517 578517 578518 578518 578518 578518 578518 578518	11.192 11.197 10.484 19.065 18.574 18.659 19.313 10.499 14.309 17.464 19.924	33.587 33.614 33.640 33.667 33.694 33.706 33.719 33.741 33.773 33.923 34.148 34.366 34.559	0.000 5.371 10.742 16.113 21.484 23.833 26.181 28.529 30.878 37.653 44.428 51.204 57.979
CURVE 411-412 412-413 413-414	RADIUS 40.000 9.500 60.000	ARC L 21.484 9.394 27.101	CHORD 21.227 9.016 26.872	MID ORD 1.434 1.138 1.524	QTR ORD 0.360 0.289 0.382

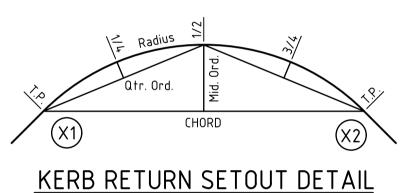
OFFICER CENTRAL STAGE 4 ROAD AND DRAINAGE INTERSECTION DETAILS - SHEET 2 CARDINIA SHIRE YOURLAND PTY LTD

CONSTRUCTION 309132CR501

Rev 0



INTERSECTION DETAIL PLAN INTERSECTION OF BANYALLA DRIVE AND HANSEL AVENUE



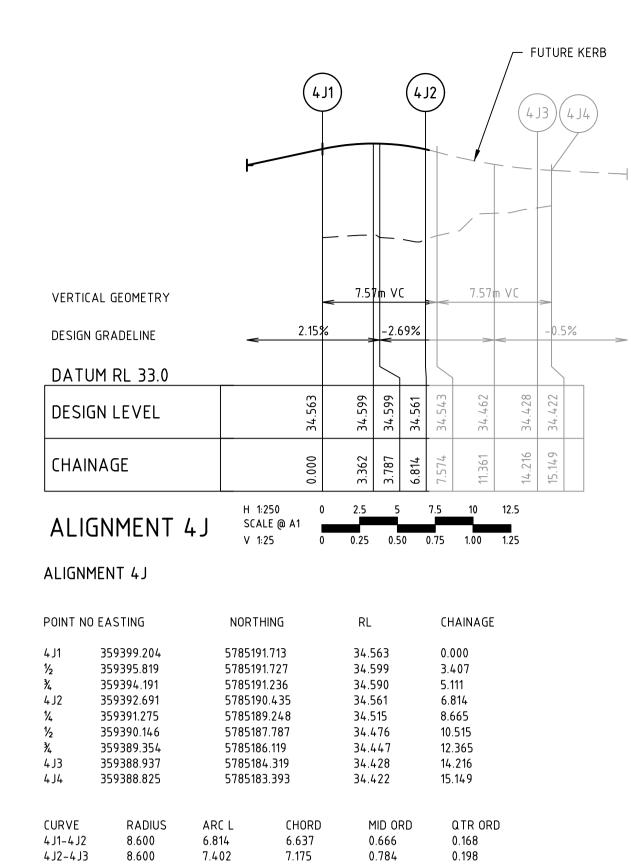
$(\mathbf{X}\mathbf{Z})$																					
T DETAIL							4	13)	4L <i>L</i>	.)			\frown								
	(41		4L2)			+		\square			(4L5 \)(41	.6)	(4L	1)				
			_	1	1						7	<u> </u>	+	\downarrow	-++	┝╥╼┫					
		_ +		+ -	-		- +		+ .		_		-	_	_						
VERTICAL GEOMETRY		1.58	m vc		2.12m	VC			2.74 m	n VC		2	.74m	VC	05	4m V	′C				
DESIGN GRADELINE		- 0.783		.53%		>	1%	5			-4.13	<				0.78%					
DATUM RL 33.6													Ţ								
DESIGN LEVEL	34.009	34.020	34.023	34.051	34.090	34.110	34.116	34.118	34.119	34.117	34.112	34.073	34.033	34.029	34.016	34.010	34.009	34.008	34.008	34.009	
CHAINAGE	0.000	0.654	0.791	1.582	2.644	3.705	4.305	4.494	4.839	5.301	5.675	7.046	8.229	8.416	P.077	9.787	9.987	10.198	10.257	10.527	
	0	0	9		. 4		7	7	7				ω	30	5.	<u> </u>	0.		~		

ALIGNMENT 4L

ALIGNMENT 4L

POINT NO	EASTING	NORT	HING	RL	CHAINAGE
4L9	359419.360	578519	91.264	34.009	0.000
4L1	359419.360	578519	91.264	34.009	0.000
4L2	359419.345	578519	91.575	34.013	0.327
4L3	359419.062	578519	91.705	34.020	0.654
4L4	359415.248	578519	91.263	34.118	4.494
4L5	359414.984	578519	90.998	34.119	4.898
4L6	359415.182	578519	90.682	34.117	5.301
4L7	359417.944	578518	39.708	34.033	8.229
4L8	359418.671	578518	39.989	34.016	9.077
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
4L1-4L2	0.300	0.654	0.532	0.161	0.044
4L3-4L4	0.300	0.806	0.585	0.232	0.065
4L5-4L6	0.600	0.849	0.780	0.144	0.037

~					
ara					Scale
					DETAIL PLAN
TeDU					H 1:250 0 2. <u>5 5 7.5 1</u> 0 12.5
/Del					SCALE @ A1
spiire	0	ISSUED FOR CONSTRUCTION	B.W	29/09/22	
-	С	AMENDED ALIGNMENT 4L	B.W	25/07/22	
	В	AMENDED ROUNDABOUT	B.W	01/07/22	H 1:100 0 1 2 3 4 5 SCALE @ A1
locarion	А	PRELIMINARY ISSUE	B.W	23/03/22	V 1 : 10 0 0.1 0.2 0.3 0.4 0.5
a II	Rev	Amendments	Approved	Date	



			(4K1)					4K2)		(4K3)				
VERTICA	AL GEOMETRY		2	2.4 m	VC3.8	37m \	/ <u>c</u>								
DESIGN	GRADELINE		1.	78%	3.06%	6 0.! •	5%	<		-	-0.5%				
DATU	M RL 32.0						<u>ار</u>		\geq						
DESIG	N LEVEL		33.745	33.771	33.803	33.850	33.872	33.873	33.865		33.826				
CHAIN	IAGE		0.000	1.198	2.397	4.334	6.271	6.371	7.854		15.708				
	INMENT	4K	S	l 1:25 SCALE / 1:25	@ A1	0 0		2.5 0.25	5 0.50	7.5 0.75	10 1.00	12.5 1.25			
POINT NO	EASTING		NO	RTHIN	١G			RL		СН	AINAC	ēΕ			
Ц 4K1 Ц Ч Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц	359433.232 359429.696 359427.783 359426.161 359425.077 359424.696 359425.077 359426.161 359427.783 359429.696 359431.610 359433.232 359434.316 359434.316		5785 5785 5785 5785 5785 5785 5785 5785	5184 5192 5192 5191.5 5188 5188 5183 5183 5183 5183 5183 5183 5188 5188 5188	038 657 673 951 038 124 502 418 038 418 502 124 038			33.80 33.74 33.87 33.84 33.85 33.82 33.82 33.82 33.81 33.82 33.81 33.82 33.81 33.82 33.81 33.82 33.75	+5 +3 70 55 56 66 26 67 77 33	0.0 1.9 3.9 5.8 7.8 9.8 11. 13. 15. 17. 19. 21. 23	963 900 63 927 890 854 817 781 744 708 671 635 598 .562 .525				
CURVE 4K1–4K2 4K2–4K3 4K3–4K4 4K41	RADIUS 5.000 5.000 5.000 5.000	AR(7.85 7.85 7.85 23.5	54 54 54		CH 7.0 7.0 7.0 7.0	71 71		1.4 1.4 1.4	D ORD +64 +64 +64 536		QTR 0 0.381 0.381 0.381 0.381 3.087	RD			

	41	ч1)(4M2)	+	((4M3))(4	M4	(4M	- (4M6) 		7-		.M1		
VERTICAL GEOMETRY		~	2.621	πVC		< 2	.62m	vc	>	< 2	.58m	VC	><	2.5	58m \	/C >			
DESIGN GRADELINE		_ 1;	* >	<	-1.23	3%		<	-1.5	%		<	1.799	6	><	1%	>		
DATUM RL 33.4							Ľ												
DESIGN LEVEL	33.823	33.824	33.829	33.830	33.830	33.821	33.806	33.804	33.794	33.785	33.782	33.775	33.774	33.774	33.774	33.786	33.807	33.823	
CHAINAGE	0.000	0.087	0.808	1.266	1.400	2.712	3.866	4.024	4.721	5.336	5.536	6.192	6.708	6.823	6.841	8.111	9.398	10.686	

ALIGNMENT 4M

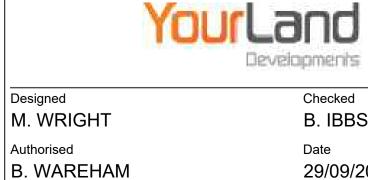
ALIGNMENT 4M

POINT NO	EASTING	NORT	HING	RL	CHAINAGE
4M1 4M2 4M3 4M4 4M5 4M6	359432.430 359431.846 359430.988 359431.314 359432.651 359433.073	57852(57852) 578519 578519 578519 578519 578519	02.691 09.756 09.042 08.429	33.823 33.829 33.806 33.794 33.775 33.774	0.000 0.808 3.866 4.721 6.192 6.841
CURVE 4M1–4M2 4M3–4M4 4M5–4M6		ARC L 0.808 0.855 0.649	CHORD 0.585 0.785 0.530	MID ORD 0.233 0.146 0.159	QTR ORD 0.066 0.038 0.043

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VICTORIA 3550 AUSTRALIA T 61 3 5448 2500 spiire.com.au ABN 55 050 029 635



CHAINAGE ALIGNMENT 4N

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 33.3

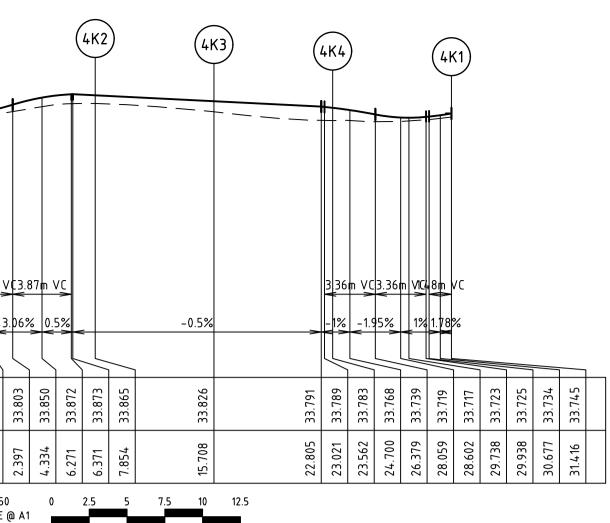
DESIGN LEVEL

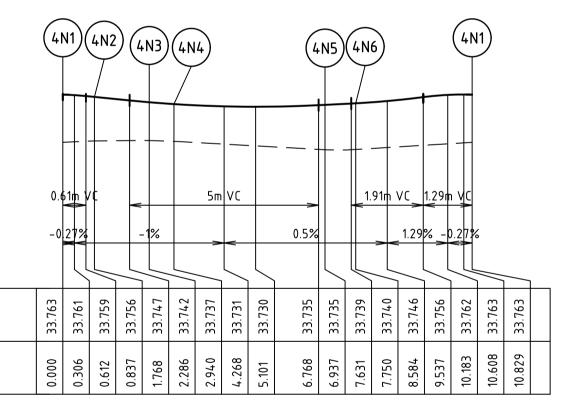
ALIGNMENT 4N

POINT NO EASTING

4N1	359441.362
4N2	359440.658
4N3	359440.018
4N4	359440.333
4N5	359444.284
4N6	359444.322
CURVE	RADIUS
4N1-4N2	0.600
4N3-4N4	0.300

4N5-4N6 0.300





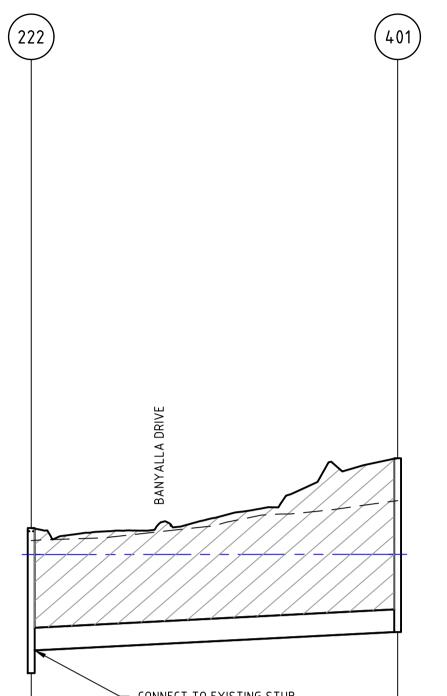
NORTHIN	ū	RL	CHAINAGE
5785186.4 5785186.15 5785184.8 5785184.4 5785185.0 5785185.6	50 49 20 25	33.763 33.756 33.742 33.737 33.735 33.740	0.000 0.837 2.286 2.940 6.937 7.750
ARC L 0.837 0.654 0.813	CHORD 0.770 0.532 0.586	MID ORD 0.140 0.161 0.236	QTR ORD 0.036 0.043 0.066

OFFICER CENTRAL STAGE 4

ROAD AND DRAINAGE **INTERSECTION DETAILS - SHEET 3** CARDINIA SHIRE YOURLAND PTY LTD

				Scale							
				H 1:500 SCALE @ A1	0	5	10	15	20	25	
				V 1:50	0	0.5	1	1.5	2	2.5	
0	ISSUED FOR CONSTRUCTION	B.W	29/09/22								
А	PRELIMINARY ISSUE	B.W	23/03/22								
Rev	Amendments	Approved	Date								

Pipe Class Class 2 Pipe Grade Class 2 1 in 200 Velocity (m/s) Pipe Flow (m3/s) DATUM RL 25.00 DEPTH TO INVERT 8 DESIGN INVERT LEVEL 98 HYDRAULIC GRADE LEVEL 70 FINISHED SURFACE LEVEL 52 EXISTING SURFACE LEVEL 88 L=48.472m				
Pipe Diameter 3000 Pipe Class Class 2 Pipe Grade 1 in 200 Velocity (m/s) Vf=0.968 Pipe Flow (m3/s) Qa=0.007 Pipe Capacity (m3/s) Qa=0.007 DEPTH TO INVERT 861 DESIGN INVERT LEVEL 981 VID AULIC GRADE LEVEL 981 FINISHED SURFACE LEVEL 982 EXISTING SURFACE LEVEL 882				
Pipe Class Class 2 Pipe Grade Class 2 1 in 200 Vetocity (m/s) Pipe Flow (m3/s) DATUM RL 25.00 DEPTH TO INVERT 8161 DESIGN INVERT LEVEL 98181 HYDRAULIC GRADE LEVEL 707788 FINISHED SURFACE LEVEL 88588 EXISTING SURFACE LEVEL 88588 EXISTING SURFACE LEVEL 88588 EXISTING SURFACE LEVEL 88588 Pipe Class 2 Class 2 Utility (m/s) Class 2 1 in 200 Vetocity (m/s) Quae0.007 Quae0.007 Quae0.007 Quae0.007 Quae0.007 Quae0.007 Quae0.007 Quae0.007 Quae0.007 Quae0.007 Quae0.007 Quae0.007 Quae0.0068 25.00 8191 921 921 921 921 921 921 921			CONNECT TO EXISTING STUB	
Pipe Class Class 2 Pipe Grade Class 2 1 in 200 Vetocity (m/s) Pipe Flow (m3/s) DATUM RL 25.00 DEPTH TO INVERT 8161 DESIGN INVERT LEVEL 98181 HYDRAULIC GRADE LEVEL 707788 FINISHED SURFACE LEVEL 88588 EXISTING SURFACE LEVEL 88588 EXISTING SURFACE LEVEL 88588 EXISTING SURFACE LEVEL 88588 Pipe Class 2 Class 2 Utility (m/s) Class 2 1 in 200 Vetocity (m/s) Quae0.007 Quae0.007 Quae0.007 Quae0.007 Quae0.007 Quae0.007 Quae0.007 Quae0.007 Quae0.007 Quae0.007 Quae0.007 Quae0.007 Quae0.0068 25.00 8191 921 921 921 921 921 921 921				
DEPTH TO INVERT 8191 10100 1000000	Pipe Diameter Pipe Class Pipe Grade Velocity (m/s) Pipe Flow (m3/s) Pipe Capacity (m3/s)		Class 2 1 in 200 Vf=0.968 Qa=0.007 Qcap=0.068	
DESIGN INVERT LEVEL 9812 HYDRAULIC GRADE LEVEL 98178 FINISHED SURFACE LEVEL 937.26 SURFACE LEVEL 682.52 SURFACE LEVEL 687.62	DATUM RL		25.00	_
HYDRAULIC GRADE LEVEL *07:EE	DEPTH TO INVERT	1.918	1.618	2.299
FINISHED SURFACE LEVEL *52.25 829.75 EXISTING SURFACE LEVEL 685.25 911.75	DESIGN INVERT LEVEL	31.836	32.136	32.378
EXISTING SURFACE LEVEL ⁶⁸ / ₈₆	HYDRAULIC GRADE LEVEL	33.404		33.406
	FINISHED SURFACE LEVEL	33.754		34.678
	EXISTING SURFACE LEVEL	33.589		34.116
	CHAINAGE	0.000	L=48.472m	



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24.00



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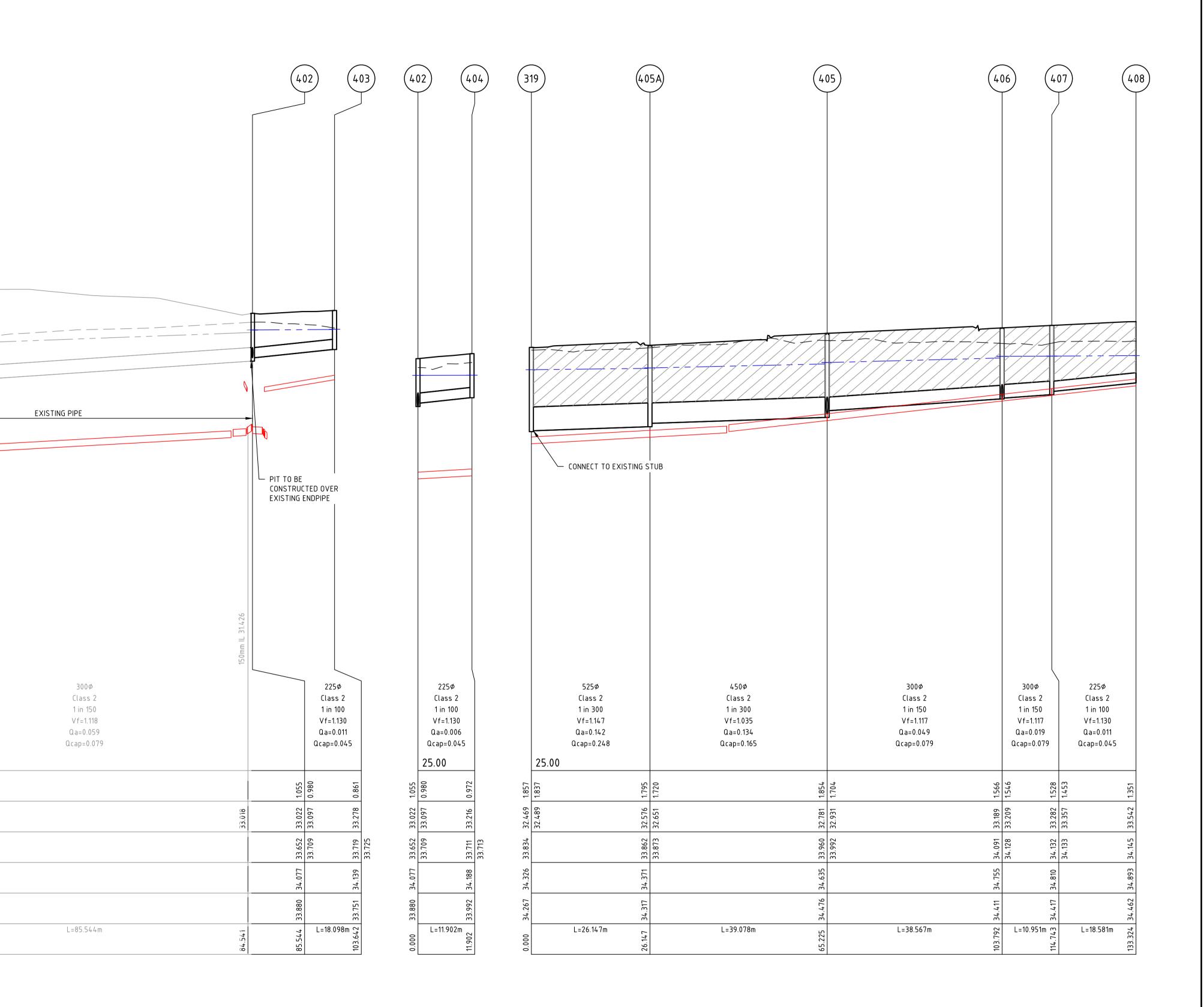
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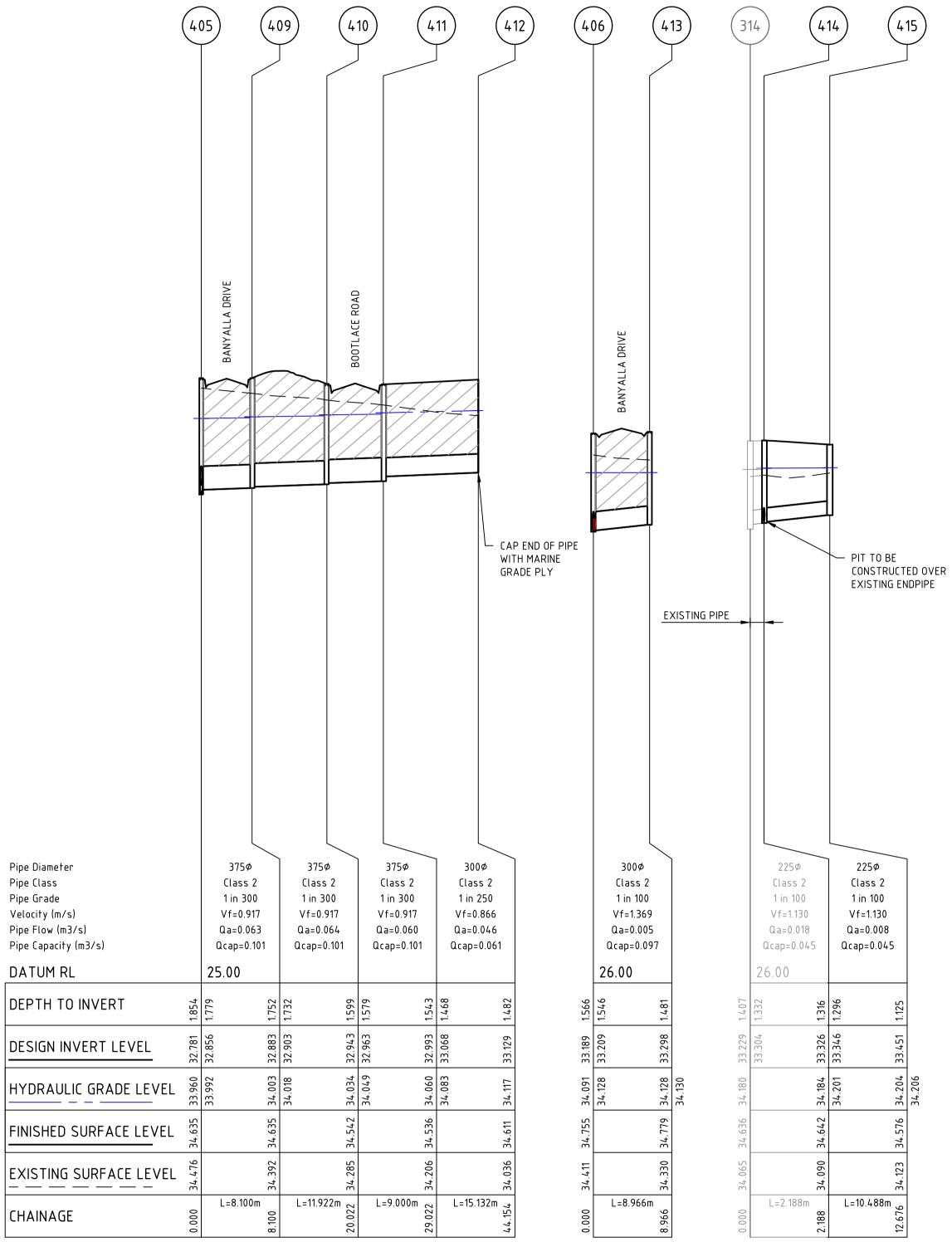
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Checked B. IBBS Date 29/09/2022







Pipe Diameter

Pipe Class

Pipe Grade

Velocity (m/s)

DATUM RL

CHAINAGE

Pipe Flow (m3/s)

				Scale							
				H 1:500	0	5	10	15	20	25	
				SCALE @ A V 1:50	0	0.5	1	1.5	2	2.5	
											© This
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Class 2

1 in 100

Vf=1.130

Qa=0.007

Qcap=0.045

L=17.000m

205

34.

26.00

1.316

33.326 33.346

34.184 34.201

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	PIT	INTERNAL			INLET	(DUTLET	PIT		DEMADKS
NAME	TYPE	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	REMARKS
139	JUNCTION PIT	600	900	300	32.451			34.117	1.686	EXISTING PIT
222	GRATED SIDE ENTRY PIT	1200	900	300	32.136			33.754	1.918	EXISTING JP TO BE CONVERTED TO GSEP. REFER EDCM 603
224	GRATED SIDE ENTRY PIT	900	900	600	31.995	600	31.975	33.940	1.965	EXISTING JP TO BE CONVERTED TO GSEP. REFER EDCM 603
226	JUNCTION PIT	900	900	300	32.124	600	32.104	34.080	1.976	EXISTING PIT
227	GRATED SIDE ENTRY PIT	600	900	300	32.199	300	32.179	34.114	1.935	EXISTING JP TO BE CONVERTED TO GSEP. REFER EDCM 603
228	GRATED SIDE ENTRY PIT	600	900	300	32.279	300	32.259	34.121	1.862	EXISTING JP TO BE CONVERTED TO GSEP. REFER EDCM 603
229	GRATED SIDE ENTRY PIT	600	900	300	32.344	300	32.324	34.121	1.797	EXISTING JP TO BE CONVERTED TO GSEP. REFER EDCM 603
314	JUNCTION PIT	600	900	225	33.304			34.629	1.400	EXISTING PIT
319	GRATED SIDE ENTRY PIT	900	900	525	32.489			34.326	1.857	EXISTING JP TO BE CONVERTED TO GSEP. REFER EDCM 603
320	GRATED SIDE ENTRY PIT	600	900	300	32.762	300	32.742	34.310	1.568	EXISTING JP TO BE CONVERTED TO GSEP. REFER EDCM 603
321	GRATED SIDE ENTRY PIT	600	900	300	32.830	300	32.810	34.310	1.500	EXISTING JP TO BE CONVERTED TO GSEP. REFER EDCM 603
322	GRATED SIDE ENTRY PIT	600	900	300	32.886	300	32.866	34.310	1.444	EXISTING JP TO BE CONVERTED TO GSEP. REFER EDCM 603
401	JUNCTION PIT	600	900			300	32.378	34.678 2.299		REFER EDCM 605
402	JUNCTION PIT	600	900	225	33.097	300	33.022	34.077	1.055	REFER EDCM 605
				225	33.097					
403	JUNCTION PIT	600	900			225	33.278	34.139	0.861	REFER EDCM 605
404	JUNCTION PIT	600	900			225	33.216	34.188	0.972	REFER EDCM 605
405A	GRATED SIDE ENTRY PIT	900	900	450	32.651	525	32.576	34.371	1.795	DOUBLE GRATED PIT HAUNCHED W/ 600 x 900 CLASS D HEAVY DUTY COVER. REFER EDCM 604 & 607
405	GRATED SIDE ENTRY PIT	600	900	300	32.931	450	32.781	34.635	1.854	REFER EDCM 603
				375	32.856					
406	GRATED SIDE ENTRY PIT	600	900	300	33.209	300	33.189	34.755	1.566	REFER EDCM 603 W/ CLASS D HEAVY DUTY COVER
				300	33.209					
407	JUNCTION PIT	600	900	225	33.357	300	33.282	34.810	1.528	REFER EDCM 605 W/ CLASS D HEAVY DUTY COVER
408	ENDPIPE	0	0			225	33.542	34.893	1.351	CONNECT TO LOT 401 DRAINAGE
409	JUNCTION PIT	600	900	375	32.903	375	32.883	34.635	1.752	REFER EDCM 605
410	GRATED SIDE ENTRY PIT	600	900	375	32.963	375	32.943	34.542	1.599	REFER EDCM 603
411	GRATED SIDE ENTRY PIT	600	900	300	33.068	375	32.993	34.536	1.543	REFER EDCM 603
412	ENDPIPE	0	0			300	33.129	34.611	1.482	
413	GRATED SIDE ENTRY PIT	600	900			300	33.298	34.779	1.481	REFER EDCM 603 W/ CLASS D HEAVY DUTY COVER
414	JUNCTION PIT	600	900	225	33.346	225	33.326	34.642	1.316	REFER EDCM 605
				225	33.346					
415	JUNCTION PIT	600	900			225	33.451	34.576	1.125	REFER EDCM 605
416	JUNCTION PIT	600	900			225	33.516	34.723	1.207	REFER EDCM 605

NOTE: WHERE PIT DEFLECTION ANGLE IS FROM 50°–90°, PROVIDE DEFLECTOR IN PIT FLOOR.

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YourLand 🚫 Developments

Designed M. WRIGHT Authorised B. WAREHAM





OFFICER CENTRAL STAGE 4 ROAD AND DRAINAGE DRAINAGE LONG SECTIONS - SHEET 2 CARDINIA SHIRE YOURLAND PTY LTD

DESIGN PAVEMENT PROFILE

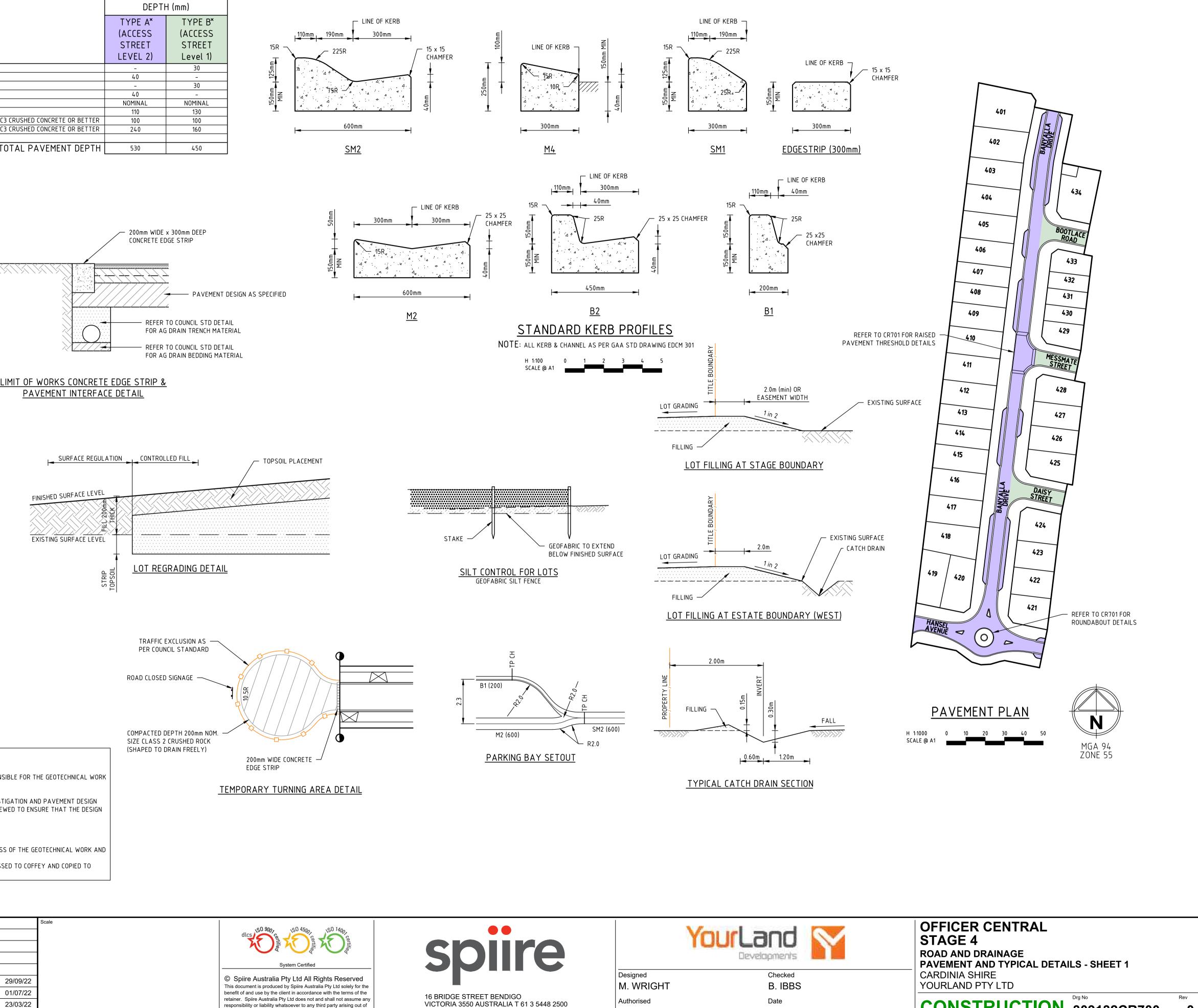
		DEPTH	H (mm)
		TYPE A*	TYPE B [×]
PAVEMENT LAYER	DESCRIPTION	(ACCESS	(ACCESS
		STREET	STREET
		LEVEL 2)	Level 1)
ASPHALT WEARING COURSE	VICROADS SIZE 10 TYPE N CLASS C170 BINDER	-	30
	VICROADS SIZE 14 TYPE N CLASS C170 BINDER	40	-
ASPHALT BASE COURSE	VICROADS SIZE 10 TYPE N CLASS C170 BINDER	-	30
	VICROADS SIZE 14 TYPE TYPE HP CLASS A10E BINDER	40	-
BITUMINOUS PRIME	NOMINAL	NOMINAL	NOMINAL
BASE	VICROADS 20mm CLASS 2 CRUSHED ROCK OR EQUIVALENT	110	130
UPPER SUBBASE	VICROADS 20mm CLASS 3 CRUSHED ROCK OR BETTER, 20mm CLASS CC3 CRUSHED CONCRETE OR BETTER	100	100
LOWER SUBBASE	VICROADS 20mm CLASS 3 CRUSHED ROCK OR BETTER, 20mm CLASS CC3 CRUSHED CONCRETE OR BETTER	240	160
SUBGRADE	SILTY CLAY WITH DESIGN CBR OF 3.5%		
		===	

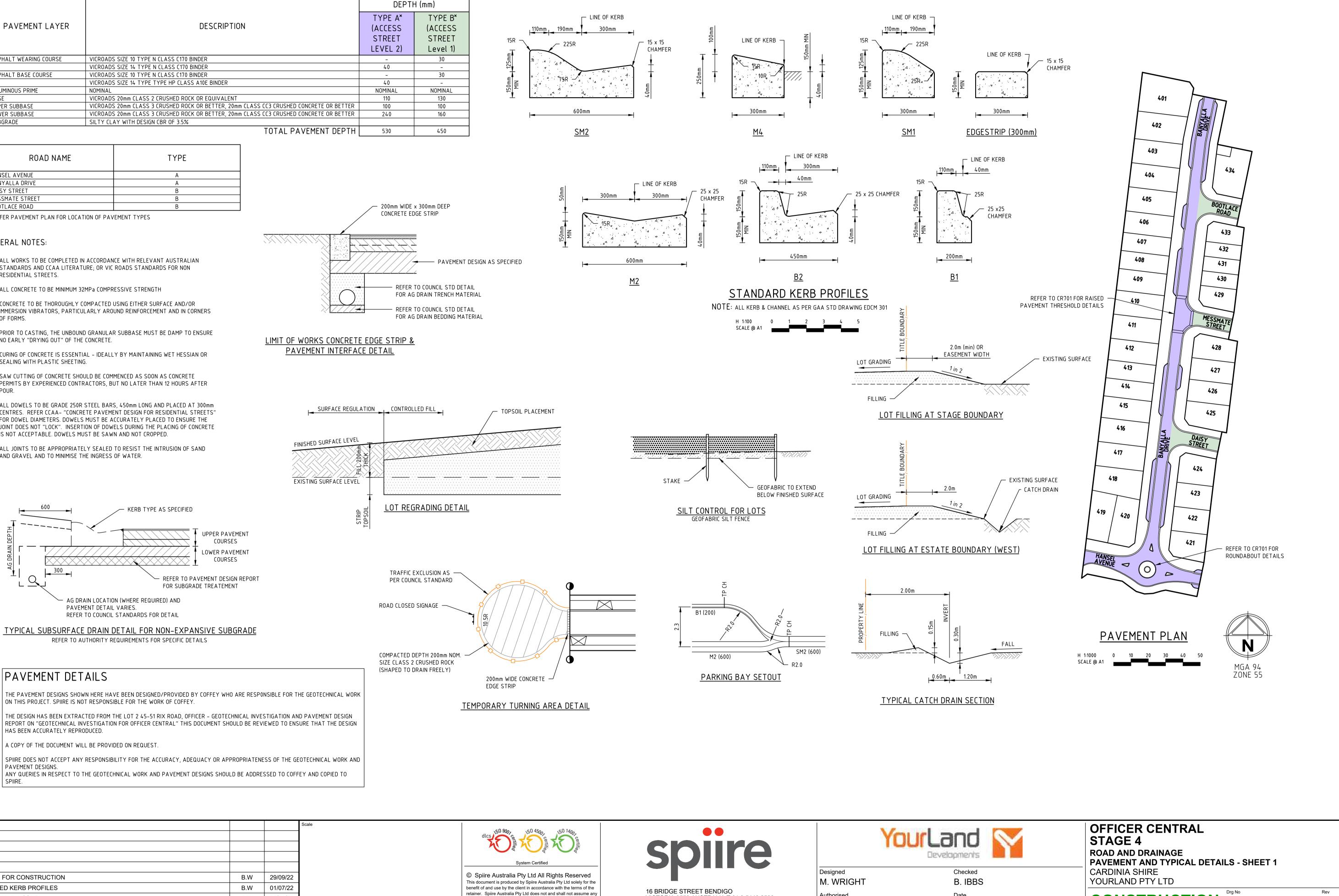
ROAD NAME	ТҮРЕ
HANSEL AVENUE	А
BANYALLA DRIVE	A
DAISY STREET	В
MESSMATE STREET	В
BOOTLACE ROAD	В

* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES

GENERAL NOTES:

- 1. ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE; OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- 2. ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
- 3. CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
- 4. PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
- 5. CURING OF CONCRETE IS ESSENTIAL IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
- 6. SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
- 7. ALL DOWELS TO BE GRADE 250R STEEL BARS, 450mm LONG AND PLACED AT 300mm CENTRES. REFER CCAA- "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" FOR DOWEL DIAMETERS. DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.
- 8. ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.





A COPY OF THE DOCUMENT WILL BE PROVIDED ON REQUEST.

SPIIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS. ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO COFFEY AND COPIED TO SPIIRE.

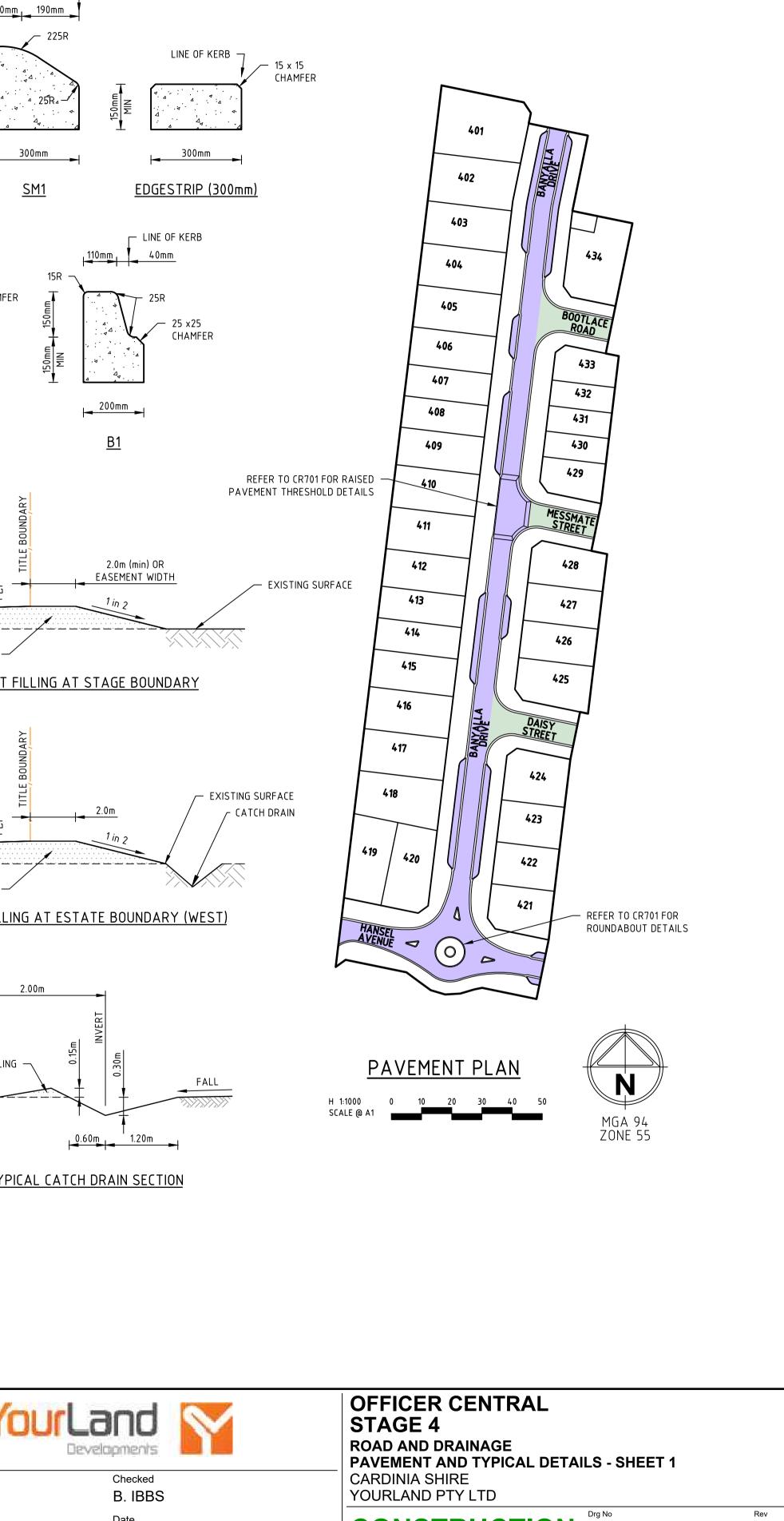
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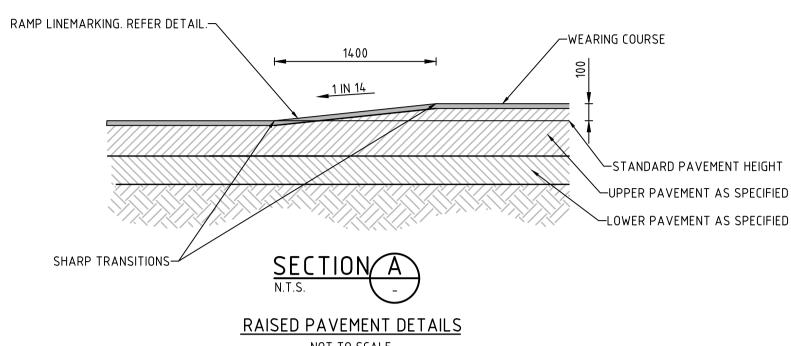
B. WAREHAM

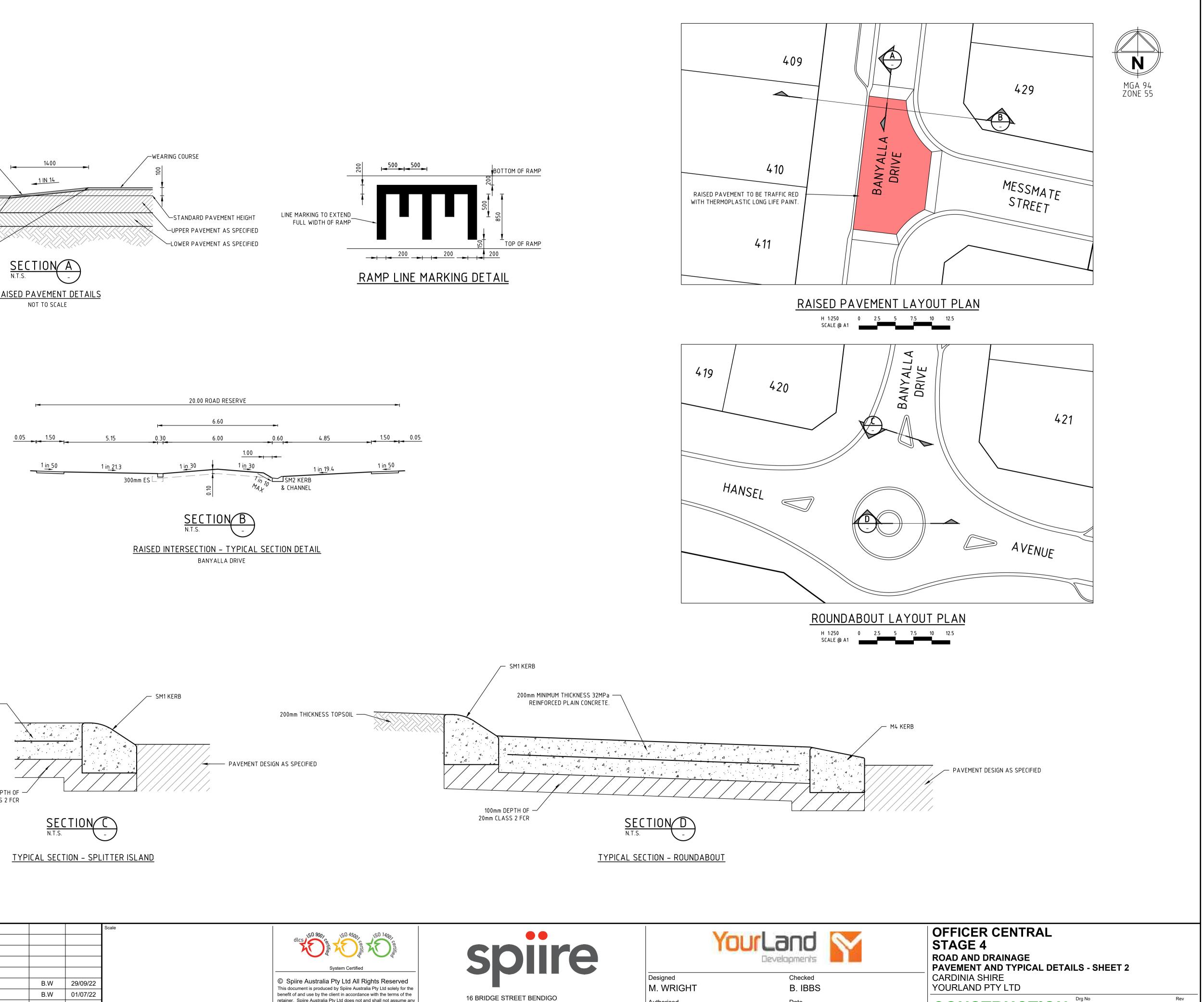


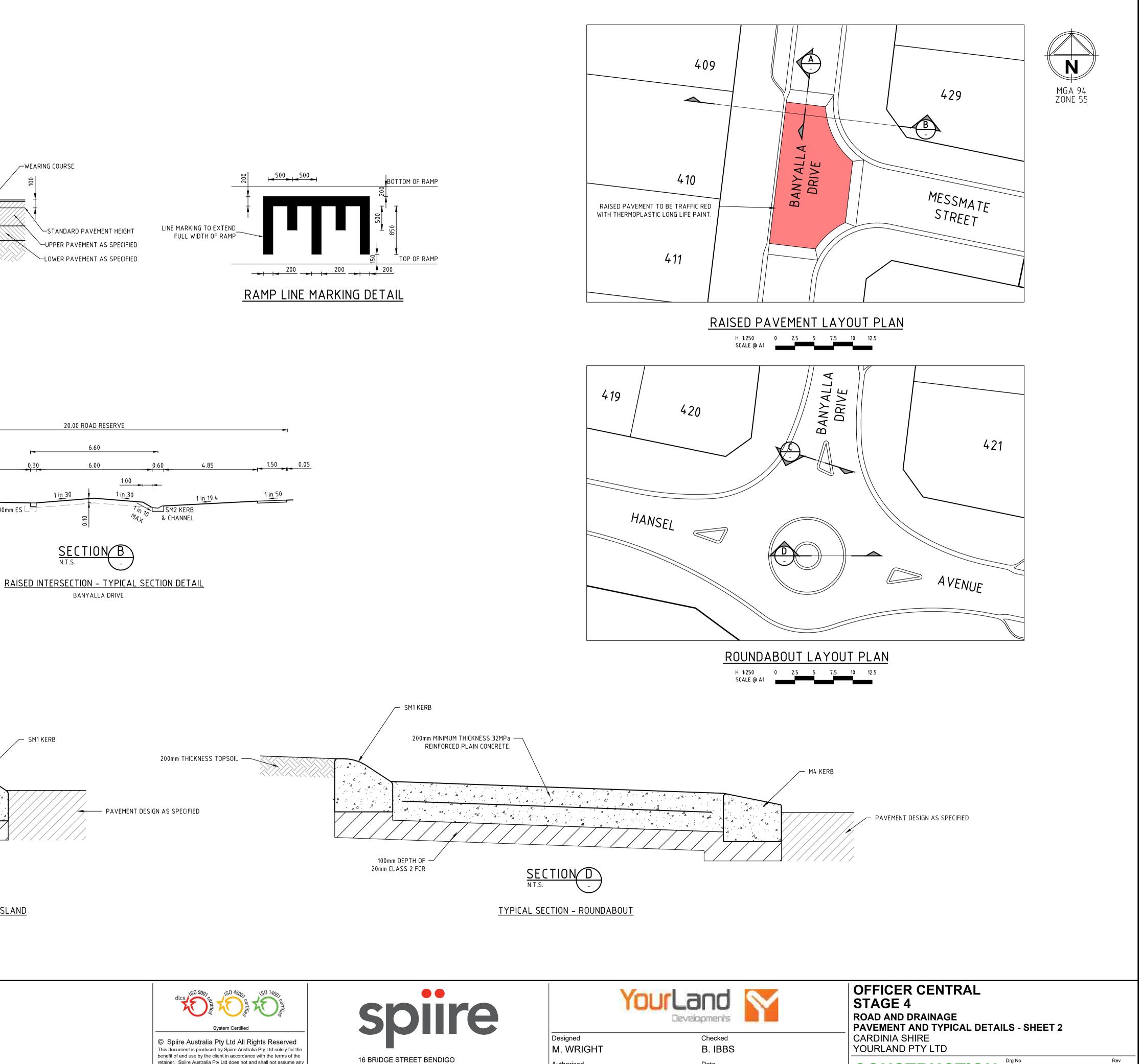
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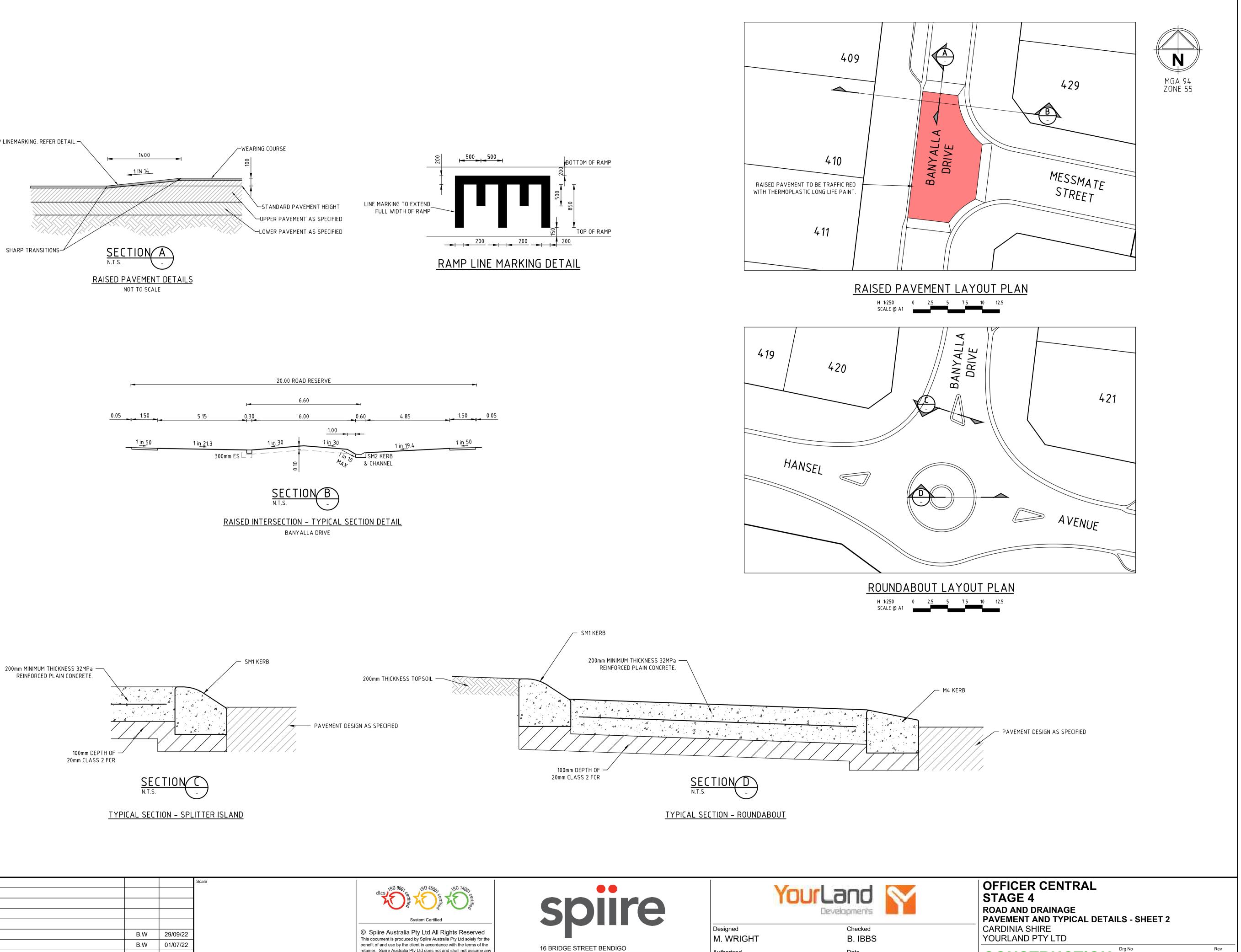
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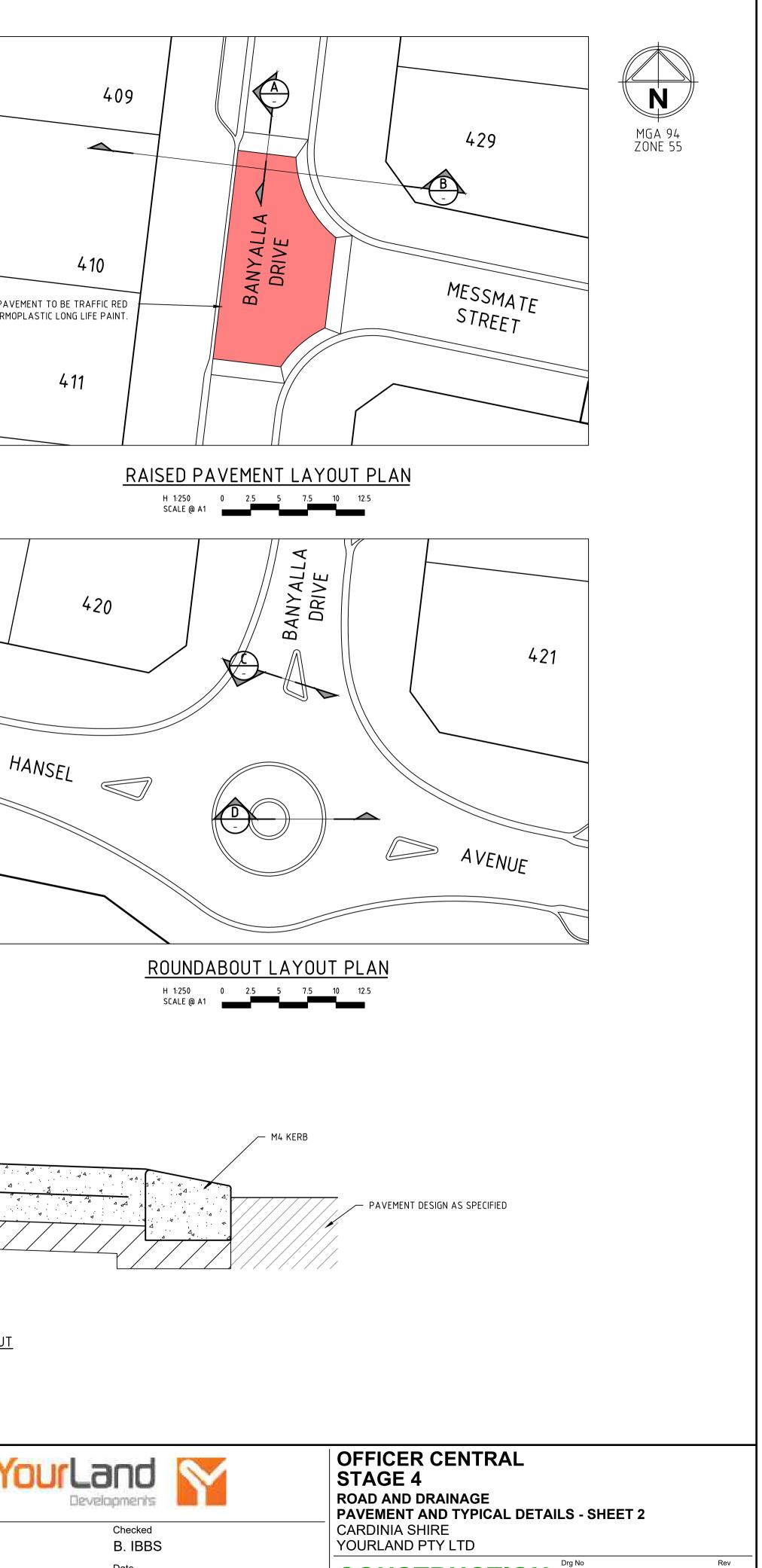
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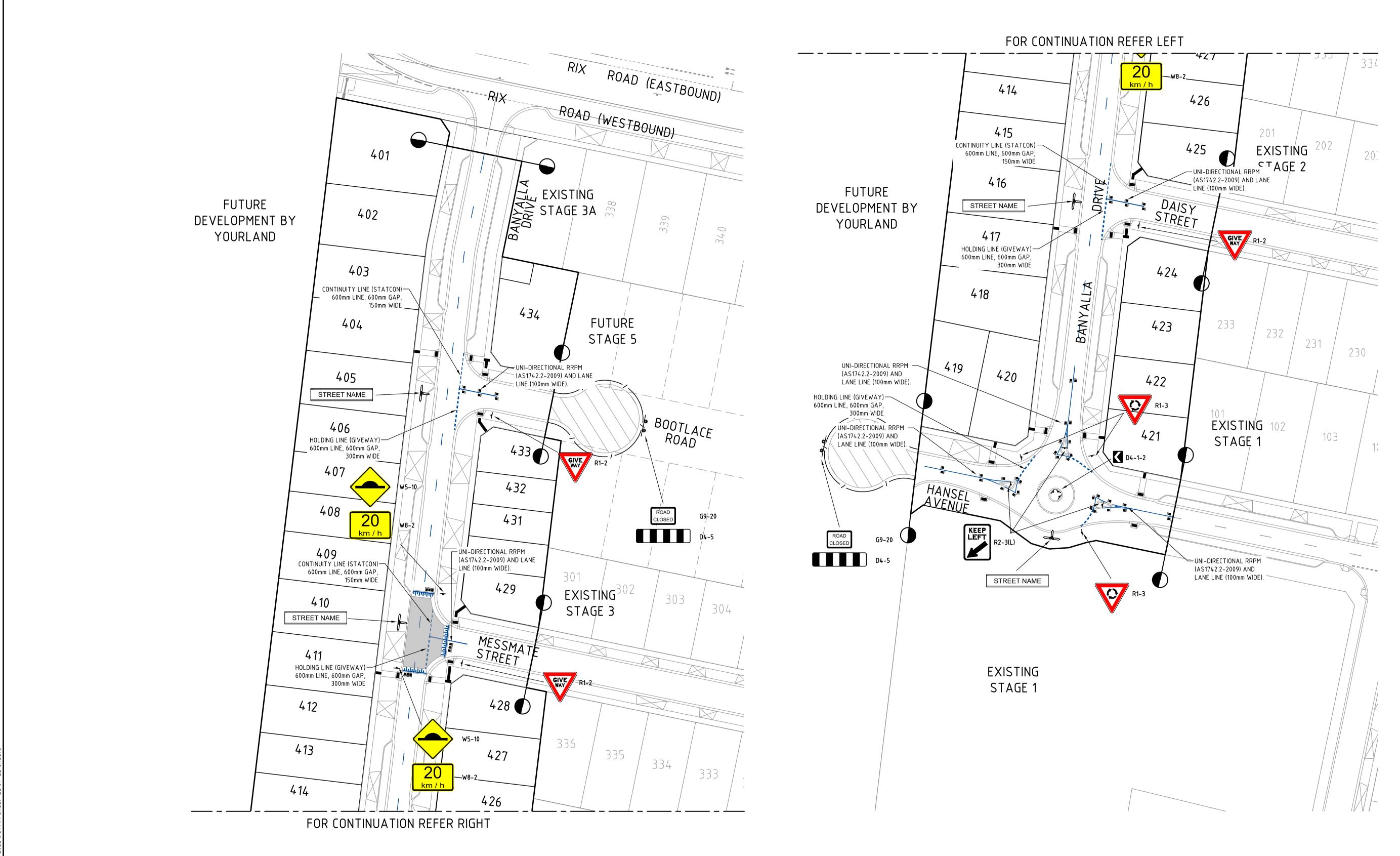
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Date 29/09/2022



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