

PINNACLE ESTATE STAGE 2 ABIWOOD CREEKSIDE PTY LTD

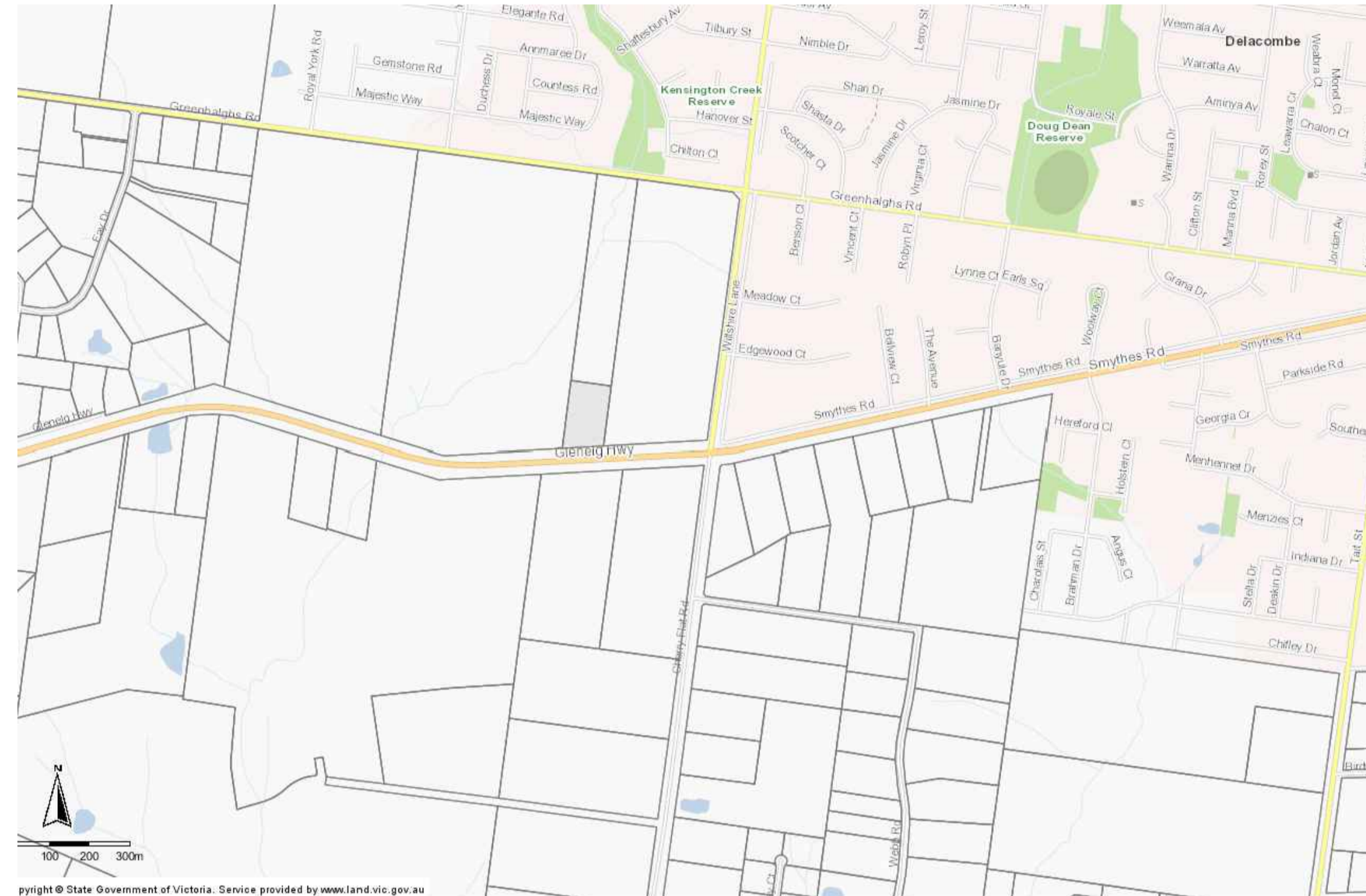
GENERAL NOTES

A. GENERAL

- ALL WORK TO BE CARRIED OUT TO CITY OF BALLARAT & IDM SPECIFICATIONS, STANDARD DRAWINGS AND TO THE SATISFACTION OF COUNCIL'S SENIOR SURVEILLANCE OFFICER OR HIS REPRESENTATIVE.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA).
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND ONLY RE-TOPSOILED ON THE DIRECTION OF THE ENGINEER, TO THE FINAL FILL LEVELS SHOWN ON THE DRAWINGS. ALL FILLING IS TO BE:
 - APPROVED BY THE PROJECT GEOTECHNICAL CONSULTANT.
 - PLACED IN LAYERS NOT EXCEEDING 200MM LOOSE THICKNESS.
 - MOISTURE CONDITIONED TO WITHIN 85% TO 115% OF OPTIMUM MOISTURE CONTENT.
 - COMPACTED TO A MINIMUM 95% (STANDARD) DRY DENSITY RATIO.
 - PLACED UNDER "LEVEL 1" SUPERVISION IN ACCORDANCE WITH AS 3798-1996.
- EXISTING DEPRESSIONS & DRAINS TRAVERSING THE SITE ARE TO BE CLEARED OUT AND DESLUGGED TO FIRM BASE AND FILLED TO FINISHED SURFACE LEVELS TO THE SPECIFIED COMPACTION STANDARDS.
- 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 TBM'S THEREAFTER.
- POSITION CONDUITS SO THAT A MINIMUM DISTANCE BETWEEN TAPPING IS 1.0M. CONDUITS TO BE LOCATED MIDWAY BETWEEN FENCE LINE OF LOT, UNLESS OTHERWISE SHOWN.
- BEFORE COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 1.5 M DEEP, THE REQUIRED NOTICE IS TO BE SENT TO THE VICTORIAN WORKCOVER AUTHORITY IN ACCORDANCE WITH THE MINES ACT, 1958 NO 6320 SECTION 385 AND THE OCCUPATIONAL HEALTH AND SAFETY ACT 1985. THIS NOTIFICATION MUST BE RECEIVED BY THE AUTHORITY AT LEAST 3 DAYS PRIOR TO COMMENCING EXCAVATIONS, AND A COPY OF THE NOTIFICATION MUST BE PROVIDED TO THE SUPERINTENDENT.
- COUNCIL'S REPRESENTATIVE IS TO BE NOTIFIED IN WRITING SEVEN (7) DAYS PRIOR TO THE COMMENCEMENT OF WORKS.
- NO EXCAVATION WITHIN 5M OF ANY EXISTING TREE WITHOUT APPROVAL OF THE ENGINEER.
- NO BLASTING IS PERMITTED WITHIN THE CITY OF BALLARAT WITHOUT OBTAINING COUNCIL'S SPECIAL DISPENSATION.
- EXCAVATED MATERIAL SURPLUS TO FILLING REQUIREMENTS OF THE WORKS SHALL BE REMOVED FROM SITE AS SPECIFIED.
- ALL SURPLUS ROCK, CONCRETE AND BITUMINOUS RUBBLE SHALL BE DISPOSED OFF SITE AS SPECIFIED. THE CONTRACTOR SHALL CHECK WITH SUPERINTENDENT WHETHER ANY LARGE ROCKS ARE REQUIRED FOR LANDSCAPE PURPOSES PRIOR TO DISPOSAL.
- NATURESTRIPS AND ALL AREAS OF CUT OUTSIDE ROAD RESERVE TO BE SURFACED WITH 100MM MINIMUM COMPACTED LAYER OF TOPSOIL.

B. ROAD WORKS

- FOOTPATHS ARE TO BE 1.5M WIDE UNLESS SHOWN OTHERWISE. FOOTPATHS TO BE CONSTRUCTED TO THE CITY OF BALLARAT STANDARDS.
- CONSTRUCT LAYBACK SECTION AT VEHICLE CROSSING, REVERSING BAYS AND CAR PARKING BAYS AND PRAM CROSSING TO THE CITY OF BALLARAT STANDARDS.
- ALL CHAINAGES REFER TO ROAD PAVEMENT CENTRELINES EXCEPT IN COURT HEADS AND INTERSECTIONS WHERE CHAINAGES REFER TO BACK OF KERB.
- THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE MADE GOOD.
- ALL BATTERS SHALL BE TO THE CITY OF BALLARAT STANDARDS.
 - CUT 1 IN 12 UNLESS OTHERWISE SHOWN.
 - FILL 1 IN 12 UNLESS OTHERWISE SHOWN.
- ALL SET OUT INFORMATION GIVEN IS TO BACK OF KERB UNLESS OTHERWISE SHOWN.
- WHERE CRUSHED ROCK IS SHOWN UNDER CONCRETE FOOTPATHS CONSTRUCTED ON FILL, THE CRUSHED ROCK IS TO BE 20MM CLASS 3. WHERE CUT BATTERS ARE STEEPER THAN 1:6 THEY MUST BE HYDRO MULCHED.
- SUBGRADE BE COMPACTED TO A MINIMUM OF 98% STANDARD MAXIMUM DRY DENSITY (AS3798), WITH THE SUBBASE COMPACTED IN ACCORDANCE WITH SCALE C IN VICROADS TABLE 304.071 USING FINE CRUSHED ROCK AND THE BASE COURSE TO AN AVERAGE OF 100% MINIMUM MODIFIED DRY DENSITY. ANY FILLING BENEATH ROAD PAVEMENT AREAS TO BE COMPACTED TO 100% OF MAXIMUM DRY DENSITY. COMPACTION TESTING TO BE AS PER COUNCIL REQUIREMENTS.
- ANY BACKFILL WITHIN 1.0M OF A COUNCIL ASSET (FOOTPATH OR ROAD) IS TO BE FC8. FILL MATERIAL IS ACCEPTABLE IF COMPACTED TO ENSURE 95% COMPACTION. COMPACTION TESTING TO BE PERFORMED AT ONE PER 60M OF TRENCH.
- CONCRETE TO HAVE 28DAY STRENGTH OF 25MPA UNLESS NOTED OTHERWISE.
- MATERIALS AND SUPPLIERS CALLED IN THE SPECIFICATION, SCHEDULES OR PLANS SHALL NOT BE SUBSTITUTED WITHOUT PRIOR WRITTEN APPROVAL AS PER 'ENVIRODEVELOPMENT - NATIONAL TECHNICAL STANDARD VERSION 2'. ALL RECEIPTS MUST BE RETAINED AND PROVIDED UPON REQUEST.



LOCALITY PLAN

SHEET INDEX

SHEET NUMBER	SHEET DESCRIPTION
01	FACE SHEET
02	LAYOUT PLAN 01
03	LAYOUT PLAN 02
04	LAYOUT PLAN 03
05	TBM DETAILS
06	ROAD LONG SECTIONS AUBURN DRIVE
07	ROAD LONG SECTIONS KENSINGTON BOULEVARD
08	ROAD CROSS SECTIONS AUBURN DRIVE
09	ROAD CROSS SECTIONS KENSINGTON BOULEVARD
10	KERB RETURN SETOUT
11	DRAINAGE LONG SECTIONS 01
12	DRAINAGE LONG SECTIONS 02
13	DRAINAGE PIT SCHEDULE
14	STANDARD DETAILS
15	SIGNAGE & LINEMARKING PLAN

SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	U/G CABLE SIDE	U/G CABLE OFFSET
AUBURN DRIVE	N	2.95	N	2.40	S	1.80	S	2.60
KENSINGTON BOULEVARD	E	2.95	E	2.40	W	0.35	W	1.00

- TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S.
- GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.

LEGEND

	EXISTING WATER MAIN, VALVE AND HYDRANT		PROPOSED WATER MAIN
	EXISTING WATER RECYCLED		PROPOSED WATER RECYCLED
	EXISTING UNDERGROUND ELECTRICITY		PROPOSED UNDERGROUND ELECTRICITY
	EXISTING OVERHEAD ELECTRICITY, POLE AND STAY		PROPOSED OVERHEAD ELECTRICITY & POLE
	EXISTING TELSTRA & SERVICE PIT		PROPOSED TELSTRA
	EXISTING OPTIC FIBRE		PROPOSED OPTIC FIBRE CONDUIT
	EXISTING GAS MAIN		PROPOSED GAS MAIN
	EXISTING SEWER & MANHOLE		PROPOSED SEWER AND MANHOLE
	EXISTING SEWER RISING MAIN		PROPOSED SEWER RISING MAIN
	EXISTING CATCH DRAIN		PROPOSED CATCH DRAIN
	EXISTING BIO RETENTION		PROPOSED BIO RETENTION
	EXISTING SWALE DRAIN		PROPOSED SWALE DRAIN
	EXISTING OPEN INVERT		PROPOSED OPEN INVERT
	EXISTING STORMWATER DRAIN & SIDE ENTRY PIT		PROPOSED STORMWATER DRAIN & PIT
	EXISTING HOUSE DRAIN		PROPOSED DRAINAGE INLET
	EXISTING TRACK		PROPOSED HOUSE DRAIN
			PROPOSED K&C ADAPTER DRAIN
			PROPOSED STORMWATER PIT NUMBER
			PROPOSED DRIVEWAY
			PROPOSED FOOTPATH
			KERB & CHANNEL + TYPE
			FINISHED SURFACE CONTOUR MINOR
			FINISHED SURFACE CONTOUR MAJOR
			FINISHED SURFACE LEVEL
			EXISTING FILL LEVEL
			EXISTING SIGN AND POST
			PROPOSED SIGN & POST
			PROPOSED LIGHT & POLE (BY OTHERS)
			STREET SIGN
			STREET SIGN
			PROPOSED PERMANENT SURVEY MARK
			TEMPORARY BENCH MARK (TBM)
			PROPOSED BOLLARD
			TOP OF BATTER
			LIMIT / TOE OF BATTER
			RIDGE / CHANGE OF GRADE
			INTERSECTION SET-OUT POINT
			LOT GRADE
			ROAD RESERVE
			LOT BOUNDARY
			EASEMENT
			SAW CUT PAVEMENT
			LIMIT OF WORKS
			PROPOSED ESTATE FENCING
			VEHICLE EXCLUSION FENCE
			PROTECTIVE TREE FENCING
			FUTURE STORMWATER DRAIN & PIT
			MWC DRAIN & PIT
			PROPOSED SLEEPER RETAINING WALL
			PROPOSED ROCK RETAINING WALL
			EXCAVATION GREATER THAN 200mm
			FILLING GREATER THAN 200mm
			FILLING GREATER THAN 300mm

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.



Rev	Amendments	App'd	Date
C	AMENDED SHEET 302173R02	B.I.	13/02/17
B	AMENDED AS PER COUNCIL COMMENTS 02/06/16	B.I.	2/11/16
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Scale

NOT TO SCALE

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Map Reference VICROADS 571 M2
Sheet Number 01
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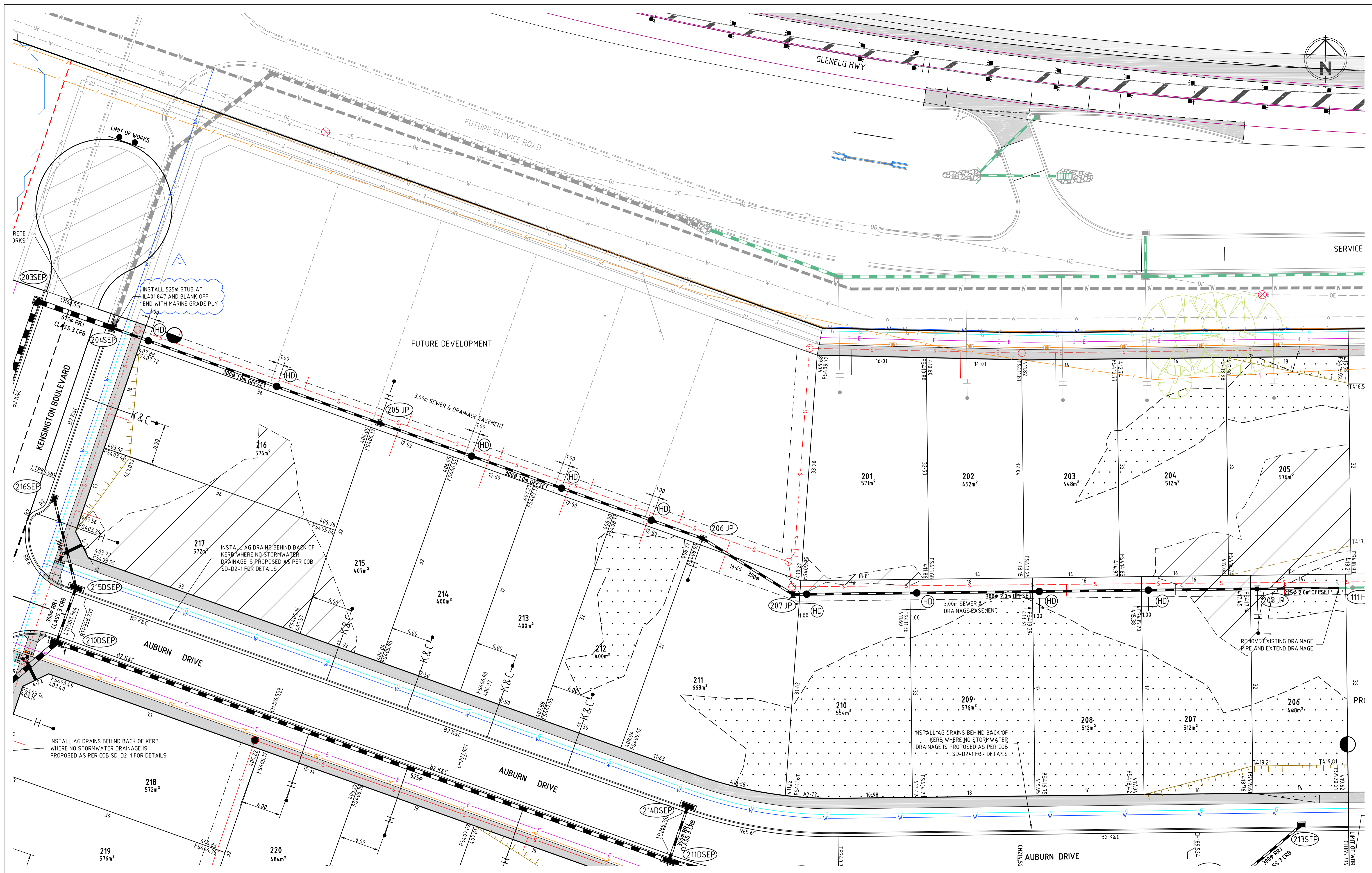
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**PINNACLE ESTATE
STAGE 2
FACE SHEET**

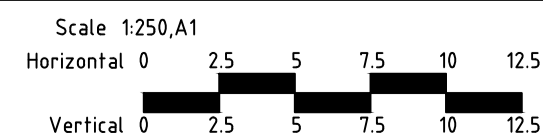
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CITY OF BALLARAT

Rev C
Drg No 302173R01



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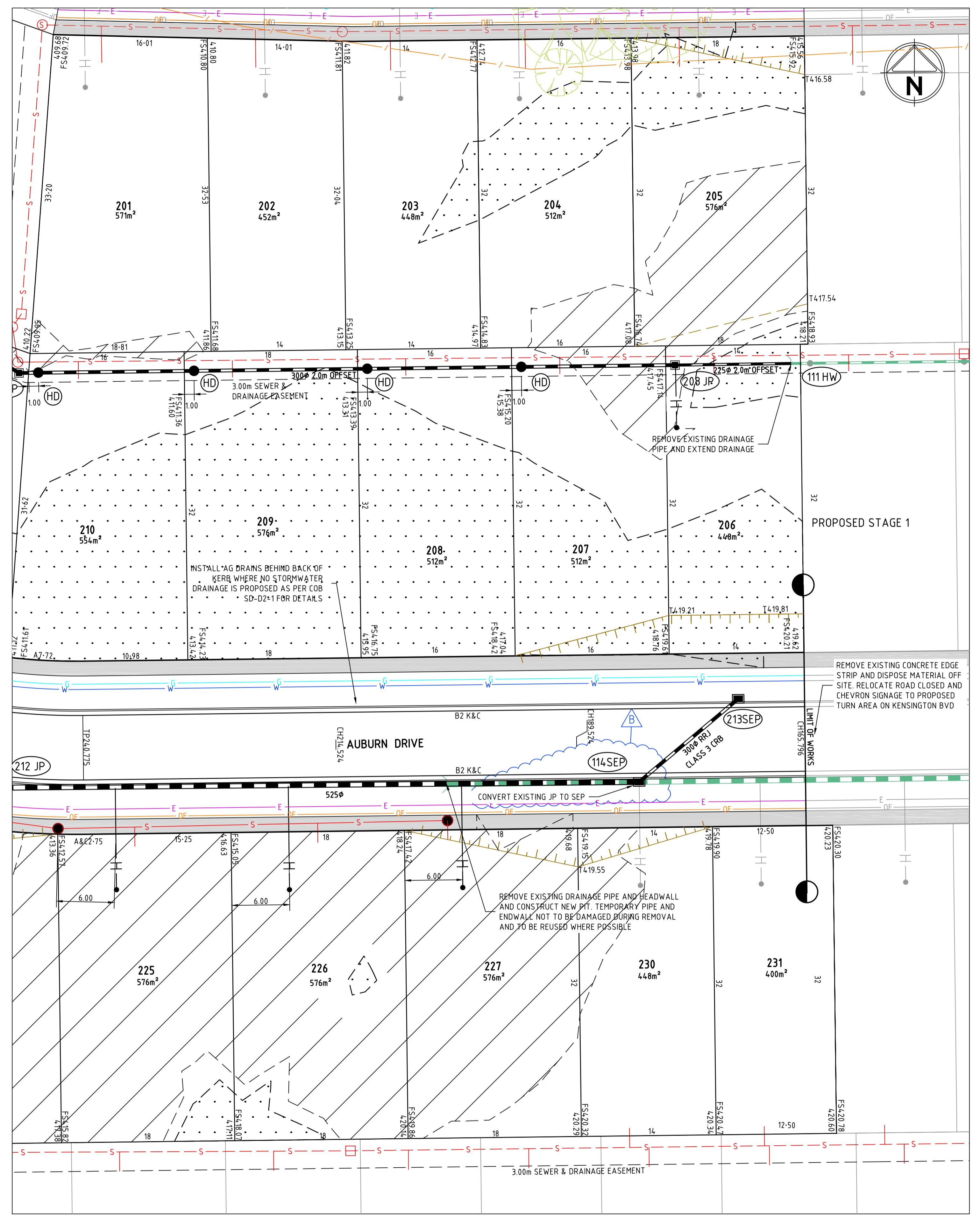
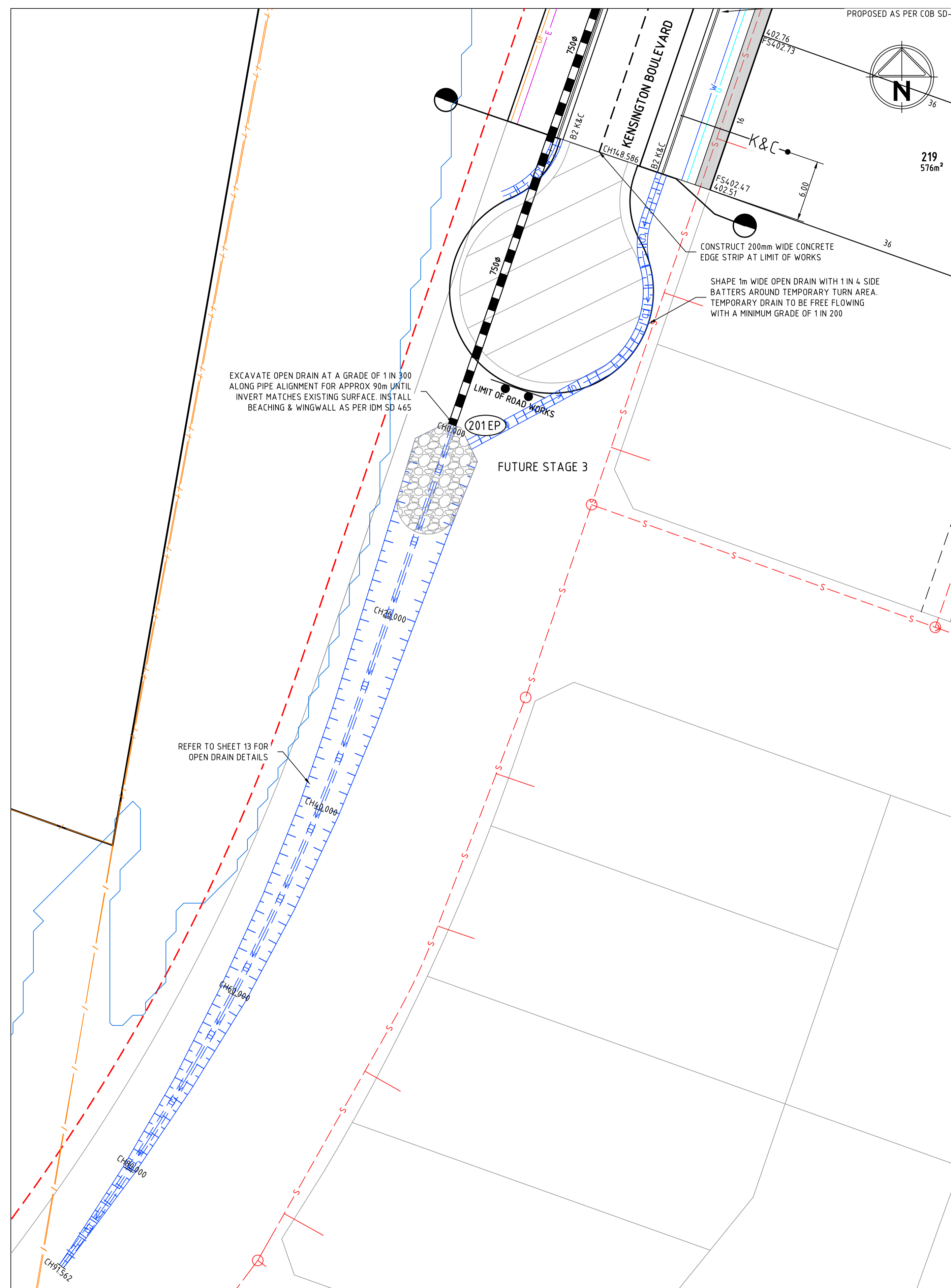
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**PINNACLE ESTATE
 STAGE 2
 LAYOUT PLAN 01**

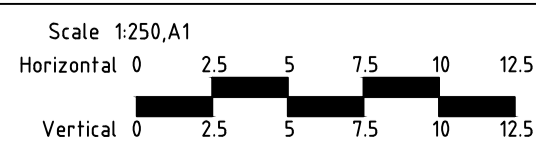
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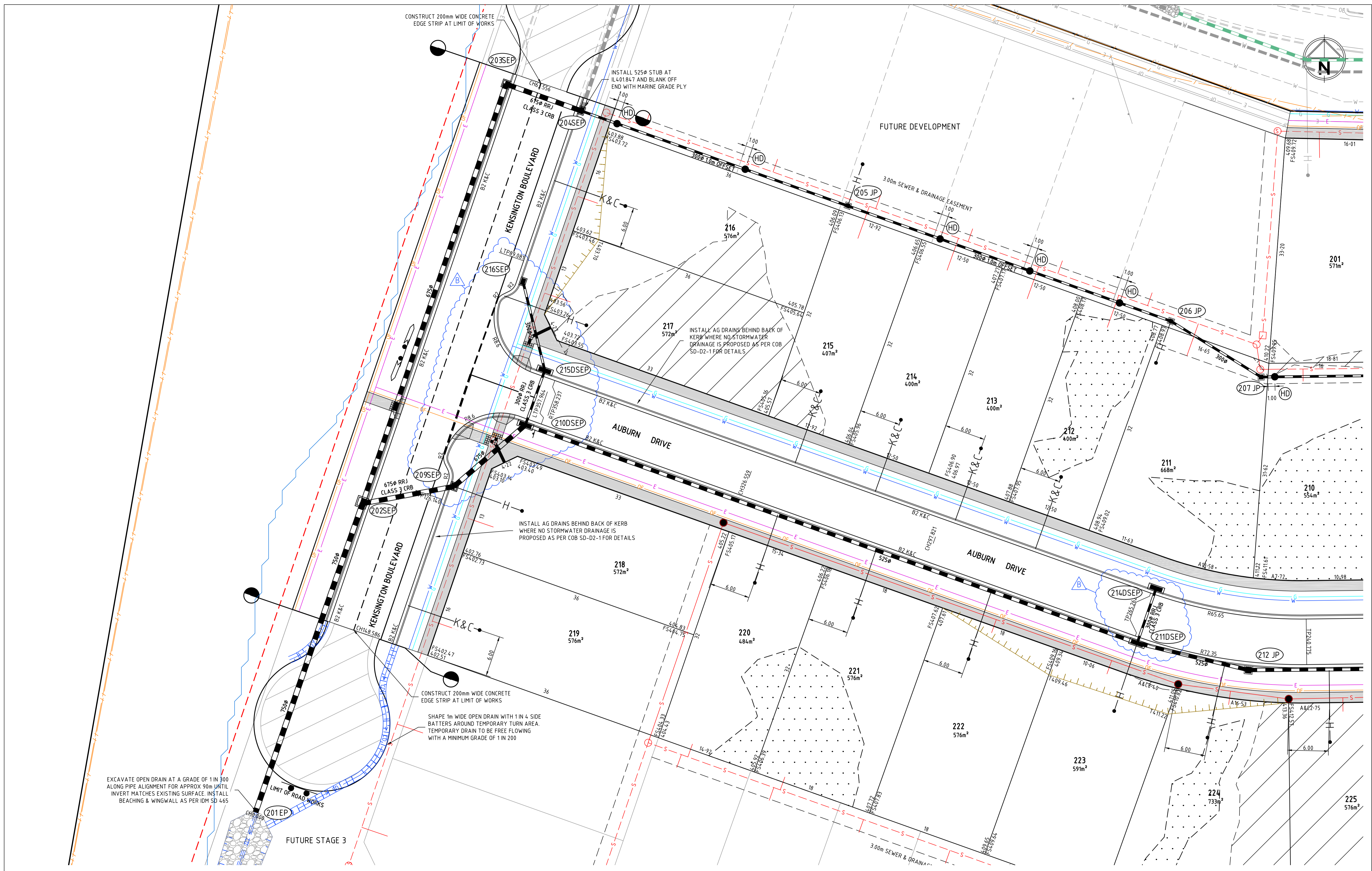
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**PINNACLE ESTATE
 STAGE 2
 LAYOUT PLAN 02**

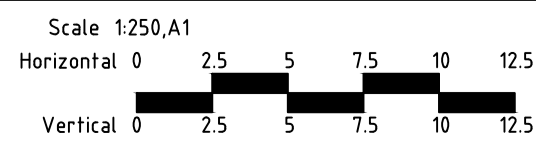
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 CITY OF BALLARAT

Rev **B**
 Drg No **302173R03**



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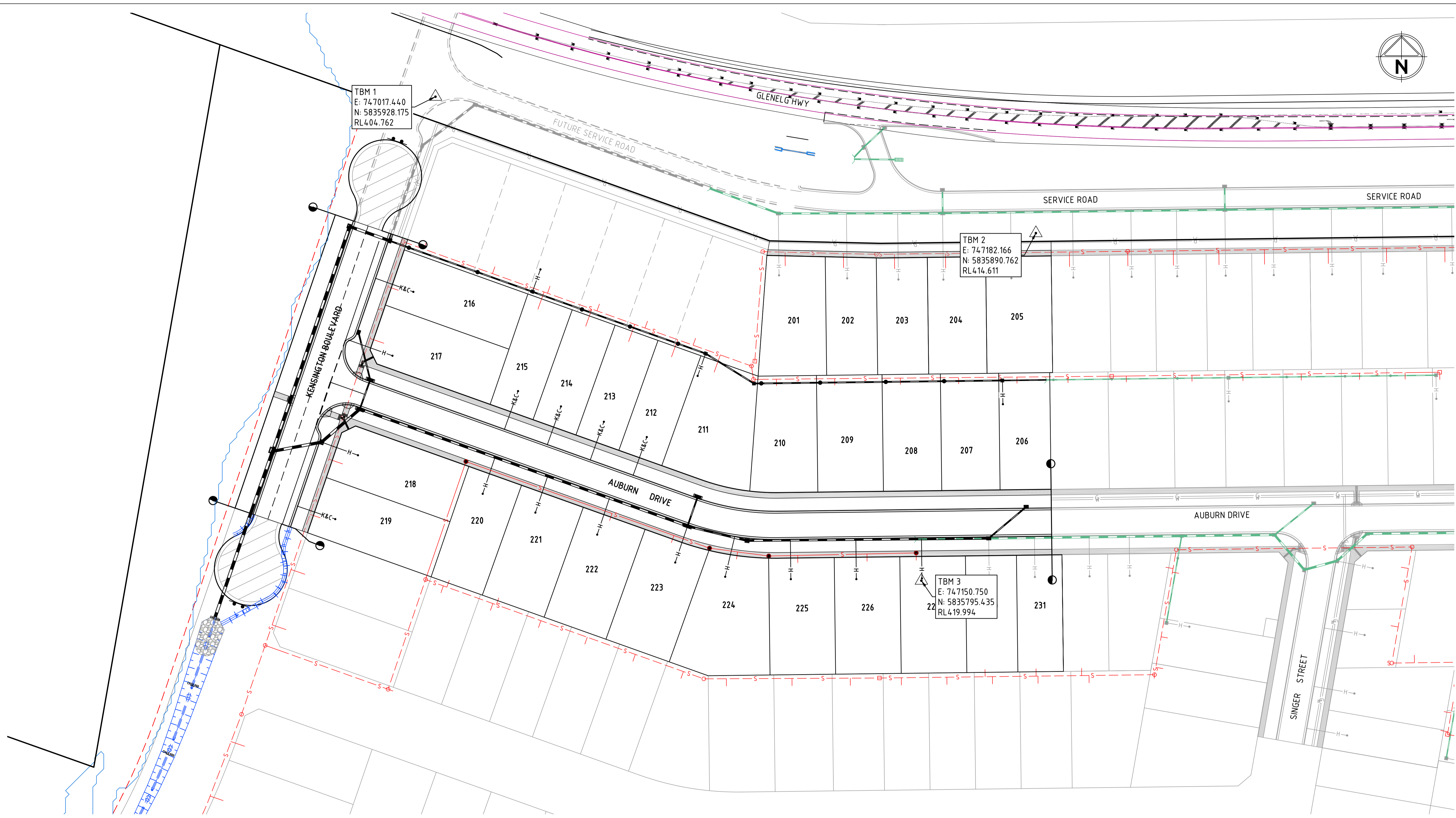
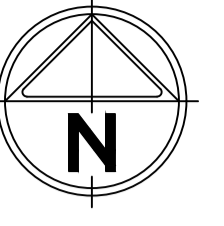
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**PINNACLE ESTATE
 STAGE 2
 LAYOUT PLAN 03**

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 CITY OF BALLARAT



Rev **B**
 Drg No **302173R04**



TBM 1
E: 747017.440
N: 5835928.175
RL 404.762

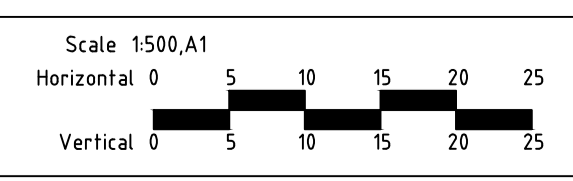
TBM 2
E: 747182.166
N: 5835890.762
RL 414.611

TBM 3
E: 747150.750
N: 5835795.435
RL 419.994

POINT NO.	EASTING	NORTHING	RL	DESC
TBM1	747017.440	5835928.175	404.762	ROD
TBM2	747182.166	5835890.762	414.611	ROD
TBM3	747150.750	5835795.435	419.994	SCREW IN ROCK

Rev	Amendments	App'd	Date
A	FOR APPROVAL	B.I.	23/03/16

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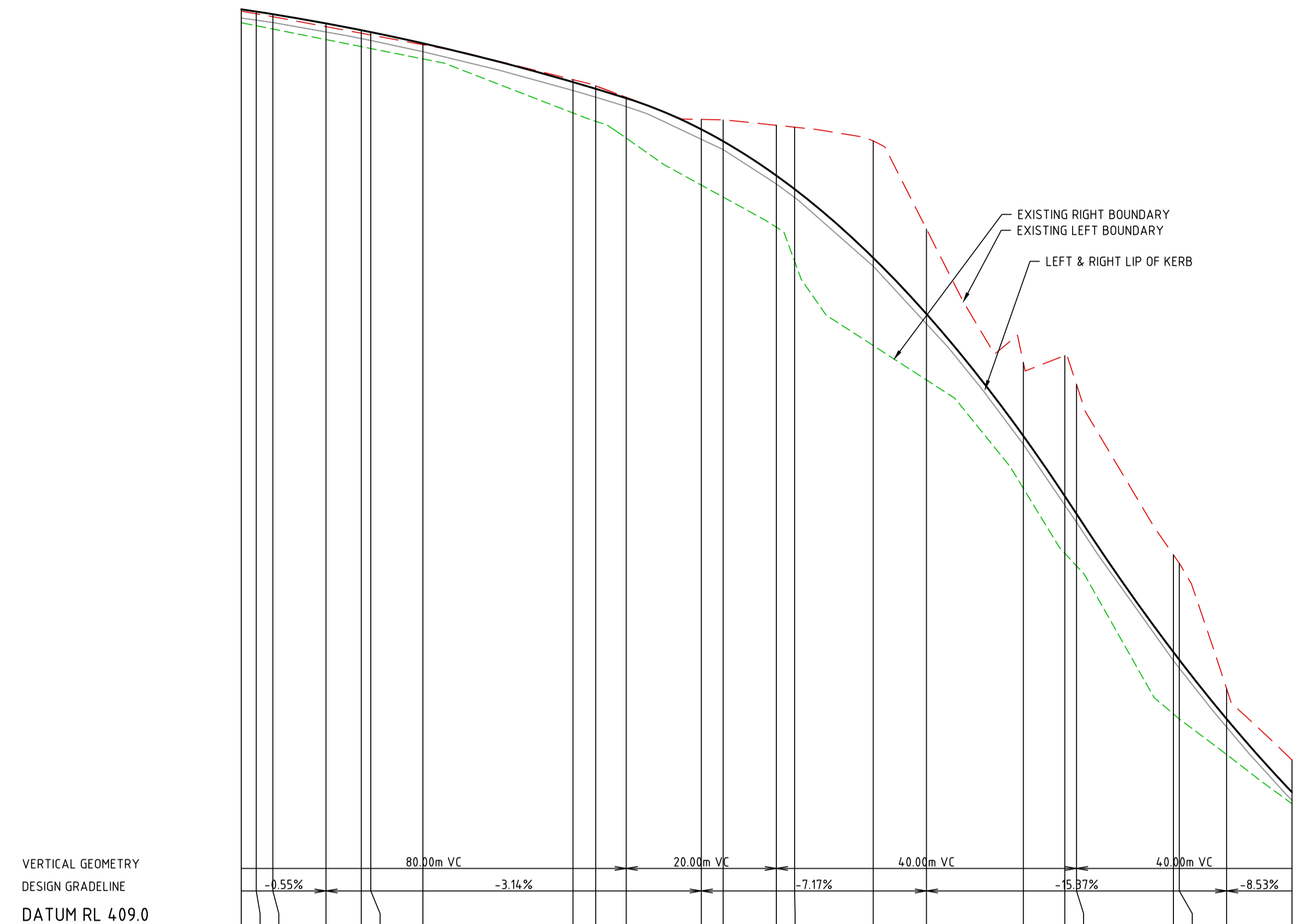
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**PINNACLE ESTATE
STAGE 2
TBM DETAILS**

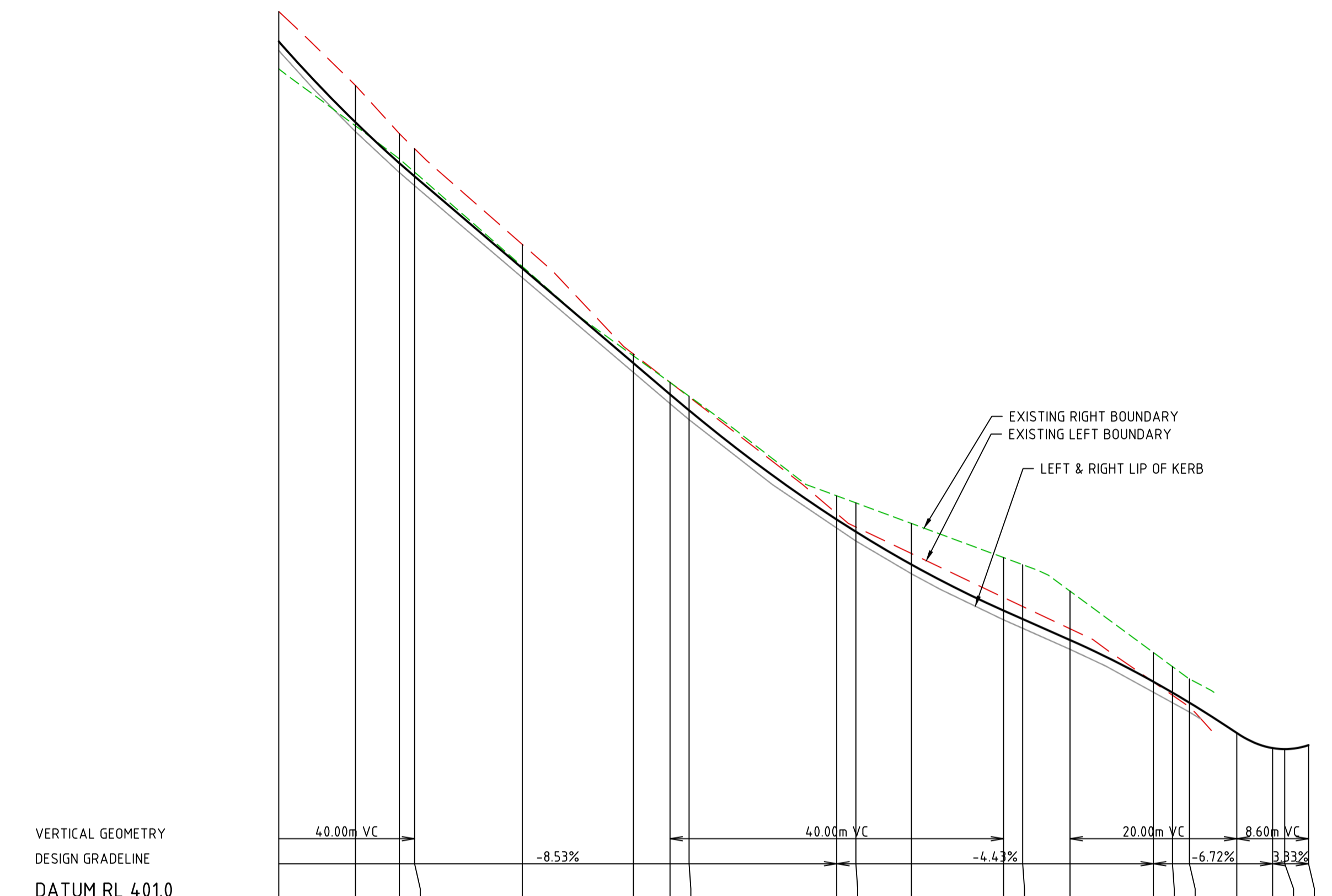
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CITY OF BALLARAT

Rev **A**
Drg No **302173R05**



VERTICAL GEOMETRY DESIGN GRADELINE DATUM RL 409.0	80.00m VC	20.00m VC	40.00m VC	40.00m VC
DESIGN CENTRELINE	421.248	420.278	417.937	410.816
EX SURFACE RIGHT BOUNDARY	421.069	419.866	416.768	410.662
RIGHT DESIGN LIP OF KERB	421.133	420.167	417.825	410.707
LEFT DESIGN LIP OF KERB	421.133	420.167	417.825	410.707
EX SURFACE LEFT BOUNDARY	421.223	420.311	418.494	411.245
CHAINAGE	115.796	160.000	200.000	255.796

AUBURN DRIVE

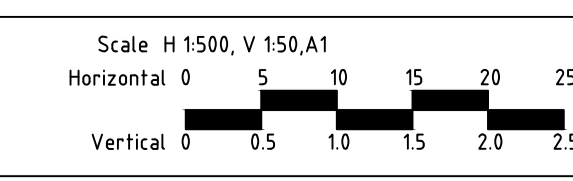


VERTICAL GEOMETRY DESIGN GRADELINE DATUM RL 401.0	40.00m VC	40.00m VC	20.00m VC	8.60m VC
DESIGN CENTRELINE	411.361	407.505	403.683	402.922
EX SURFACE RIGHT BOUNDARY	411.032	407.592	403.683	402.922
RIGHT DESIGN LIP OF KERB	411.252	407.393	403.557	402.922
LEFT DESIGN LIP OF KERB	411.252	407.393	403.557	402.922
EX SURFACE LEFT BOUNDARY	411.720	407.274	403.431	402.875
CHAINAGE	250.796	293.318	355.680	374.281

AUBURN DRIVE

Rev	Amendments	App'd	Date
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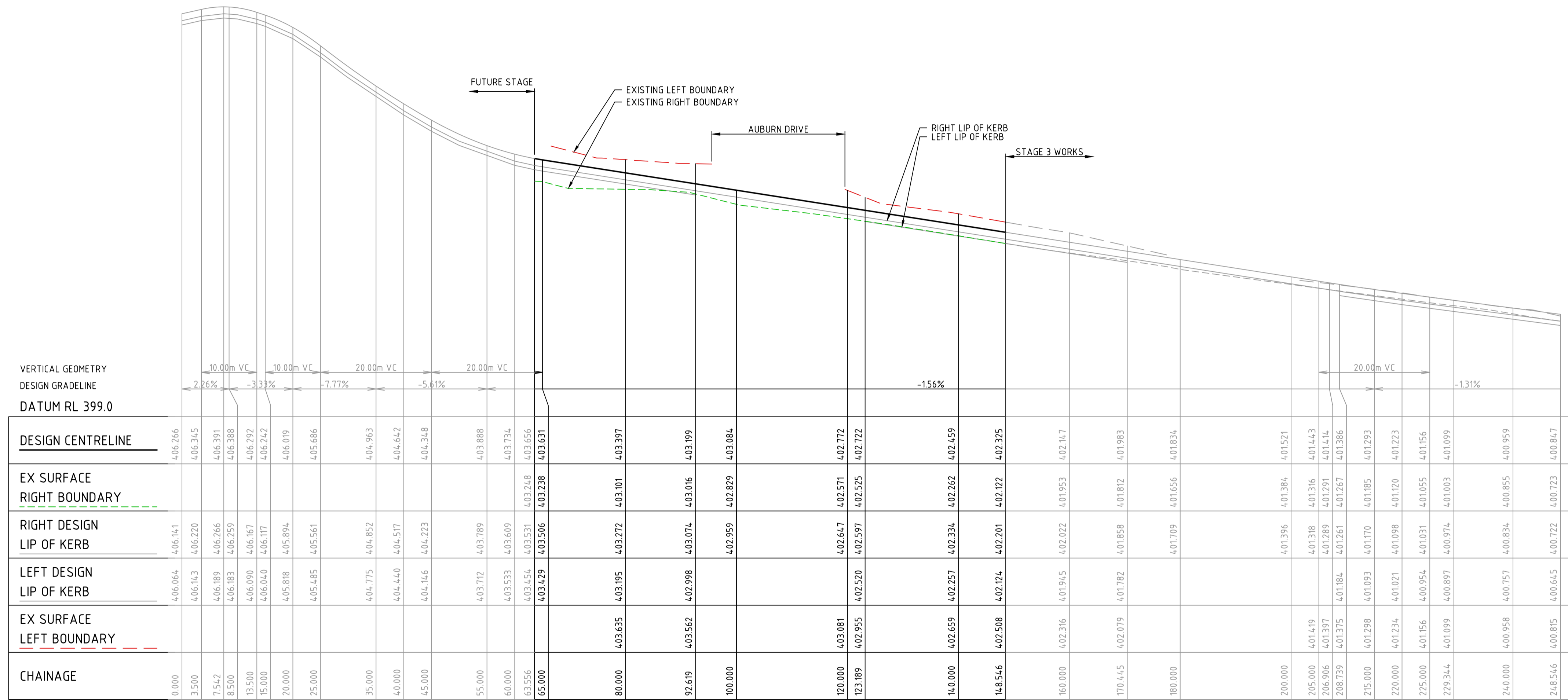
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**PINNACLE ESTATE
 STAGE 2
 ROAD LONG SECTIONS
 AUBURN DRIVE
 ABIWOOD CREEKSIDE PTY LTD
 CITY OF BALLARAT**

Rev **A**
 Drg No **302173R06**



KENSINGTON BVD

Rev	Amendments	App'd	Date
A	FOR APPROVAL	B.I.	23/03/16

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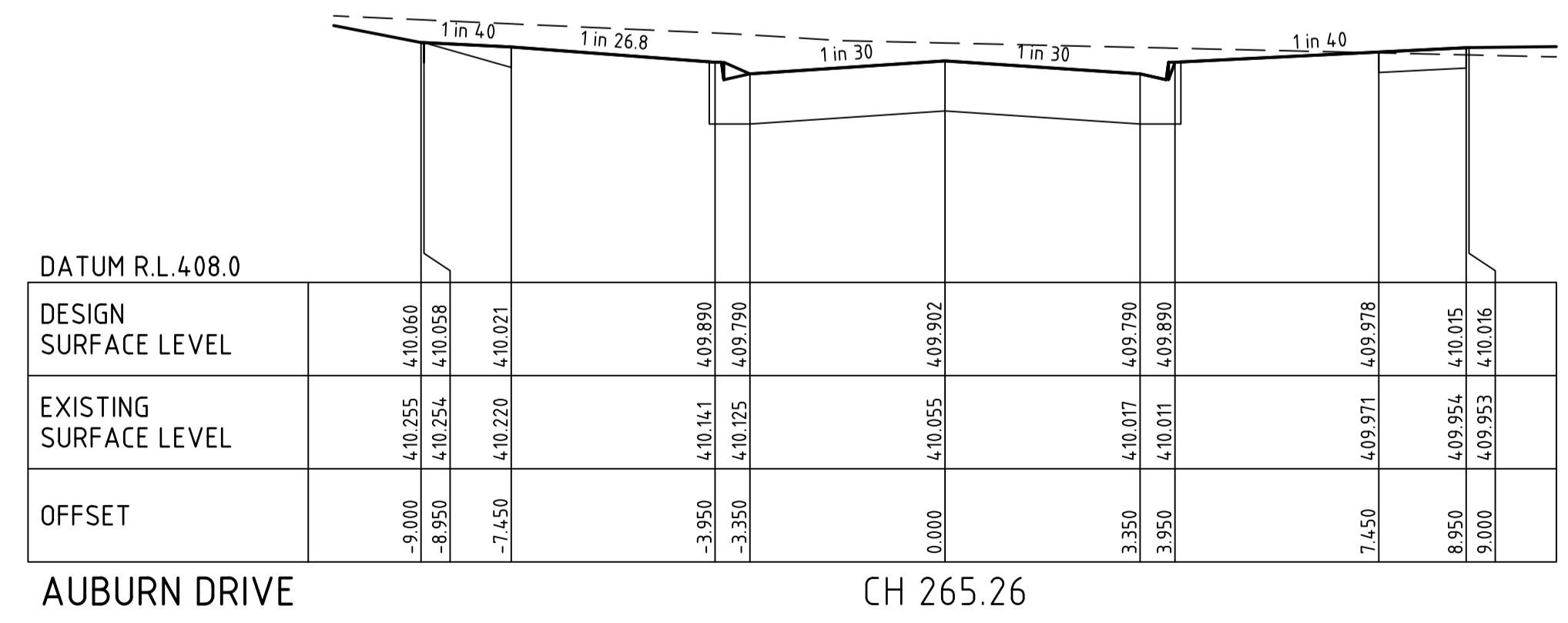
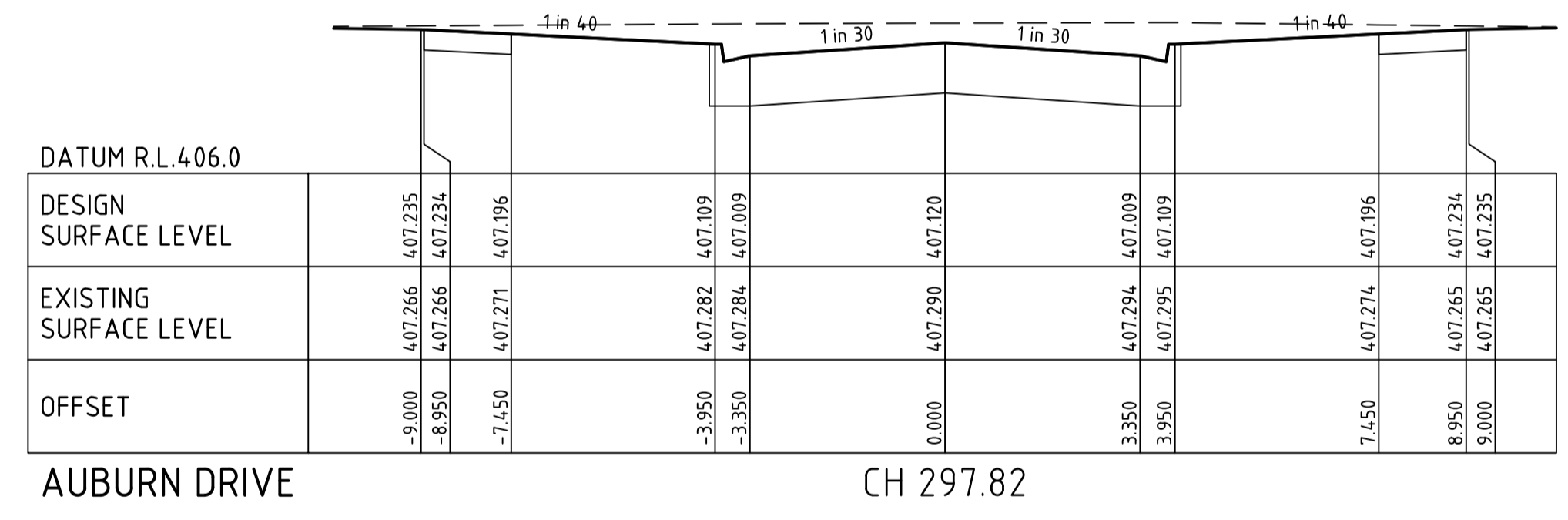
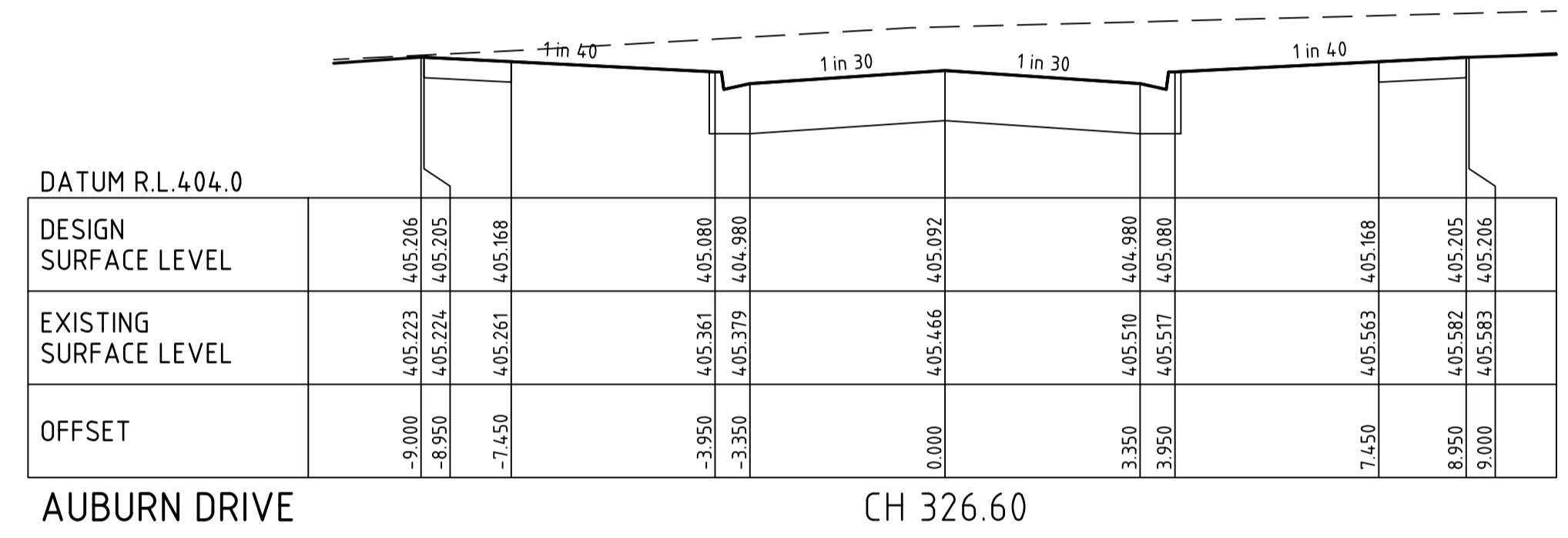
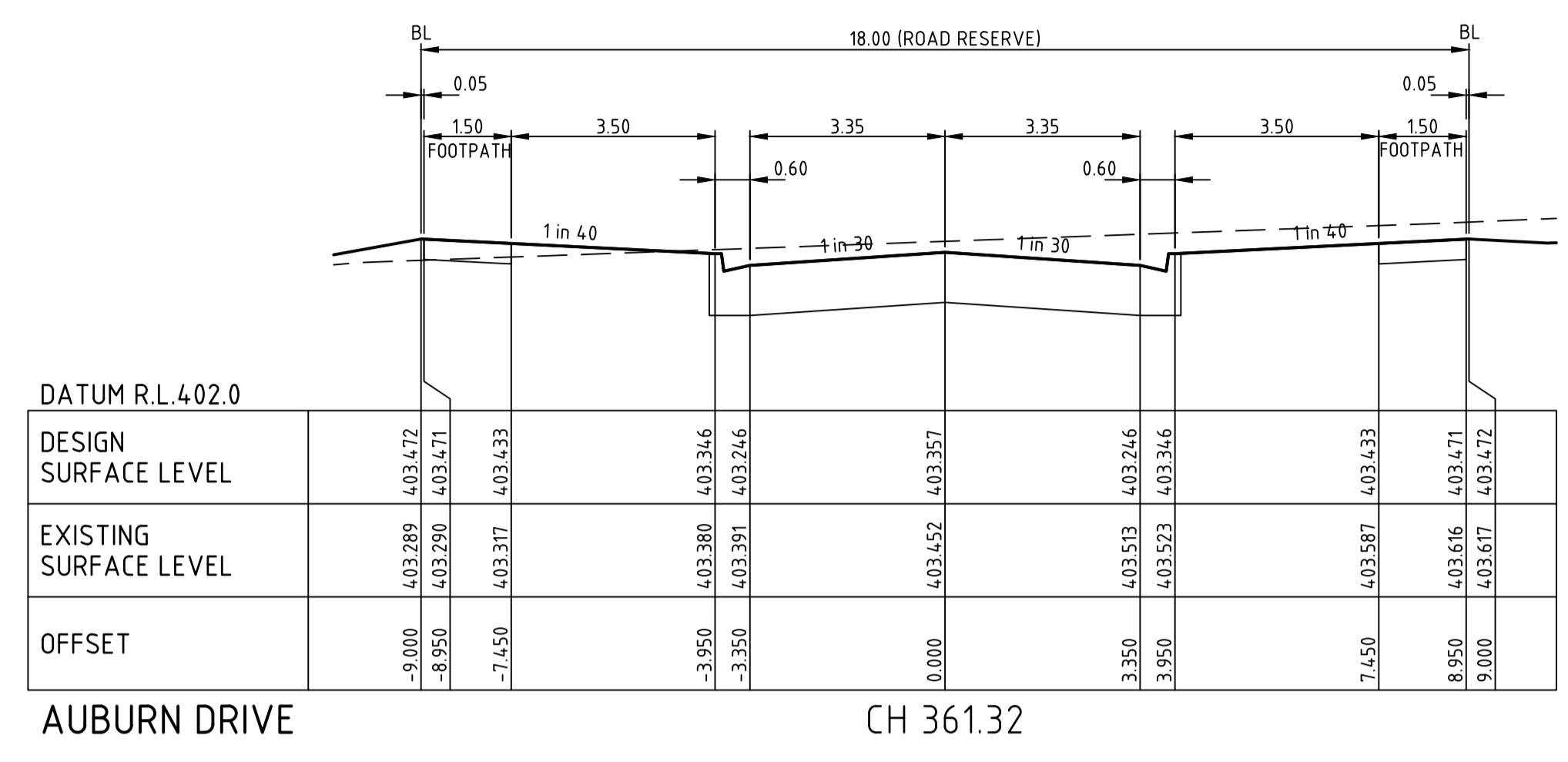
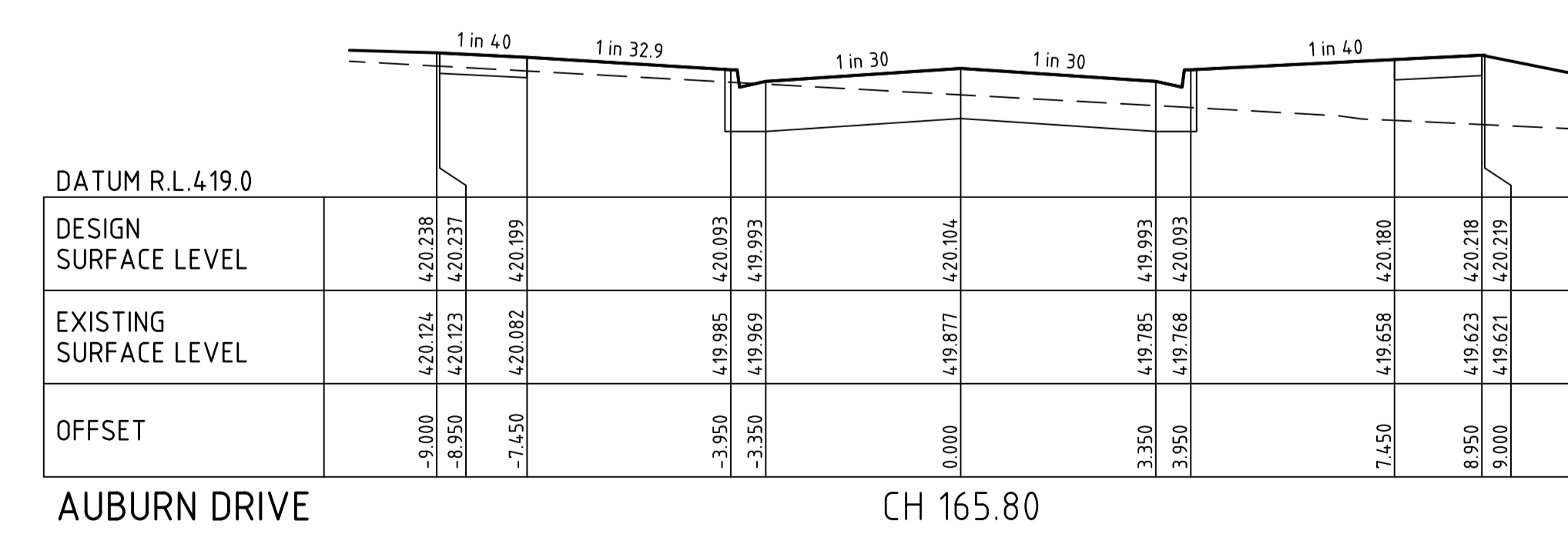
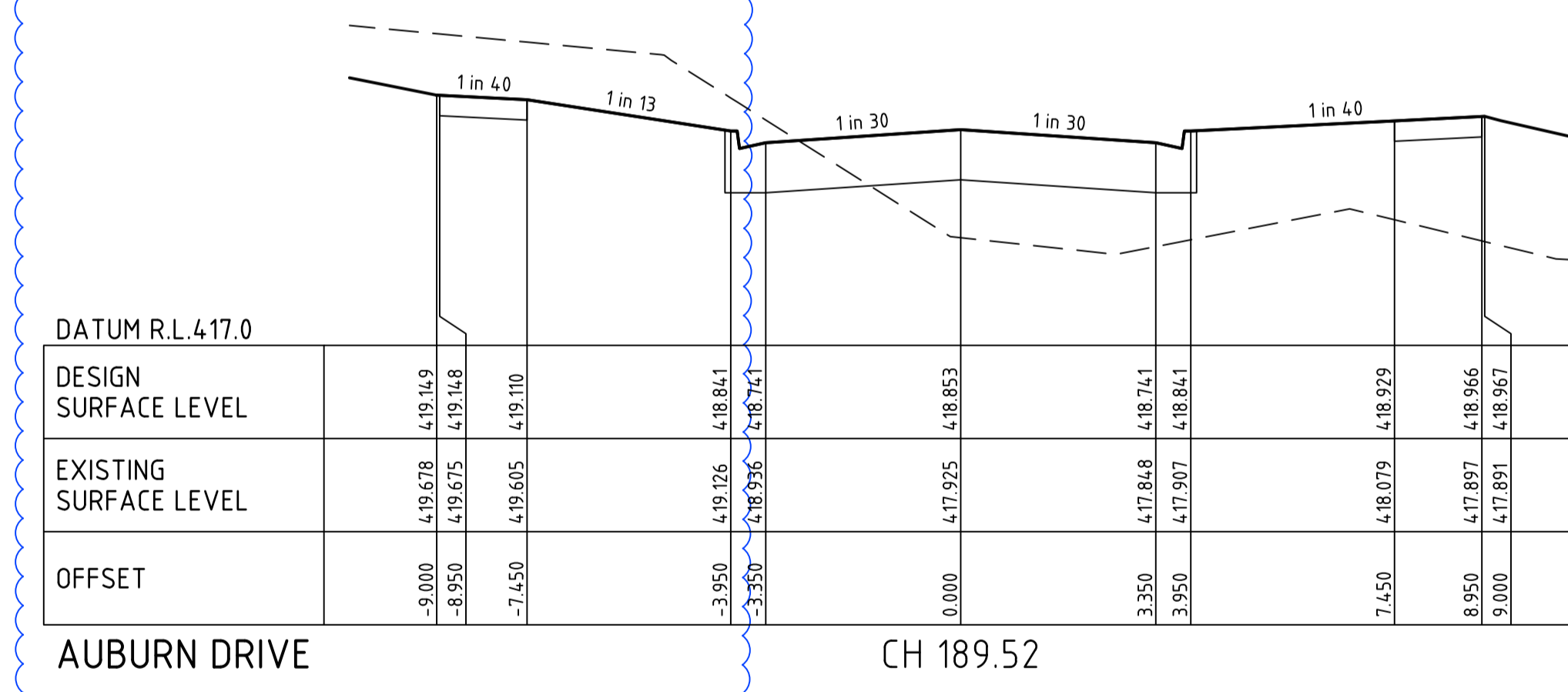
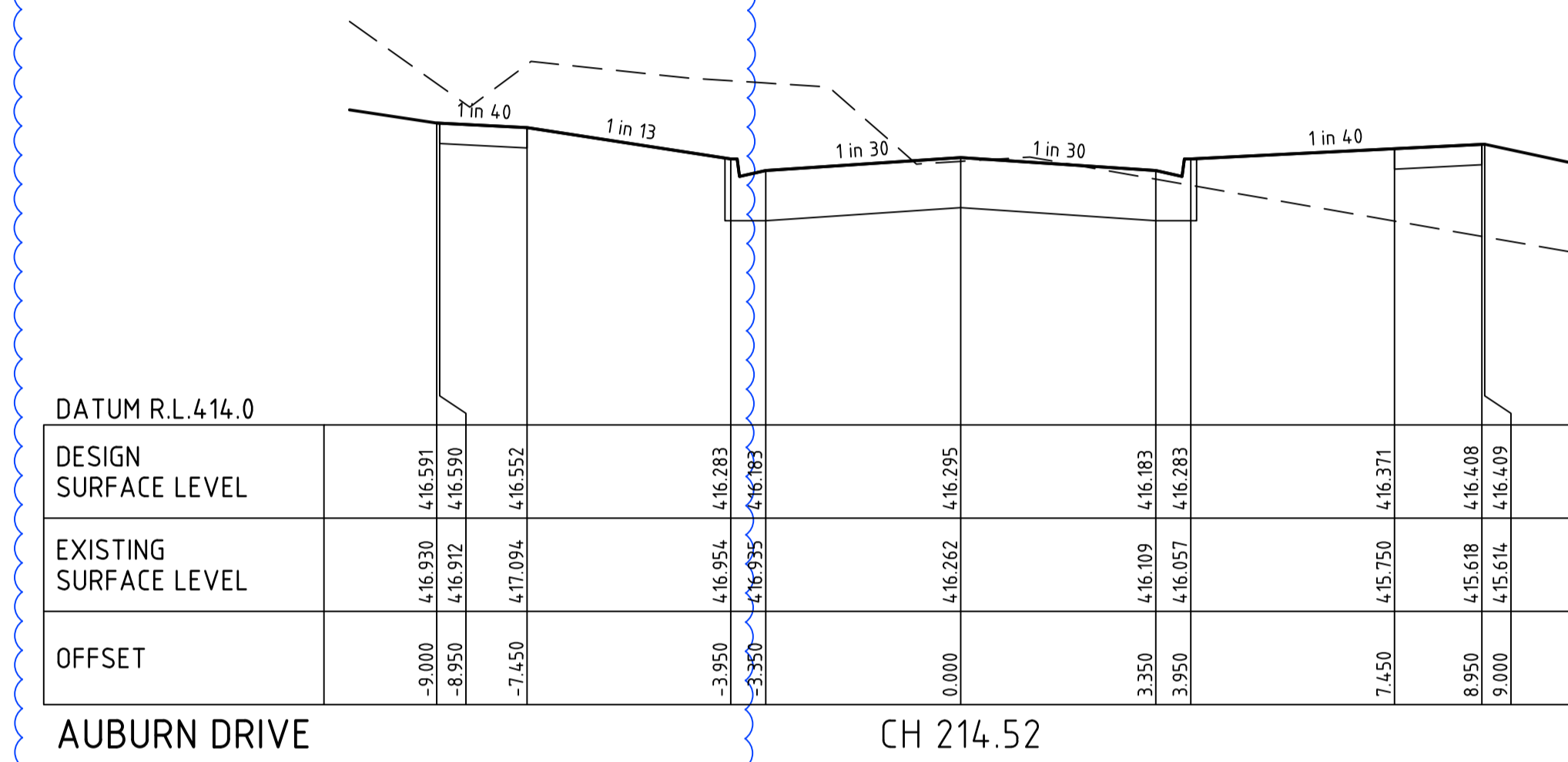
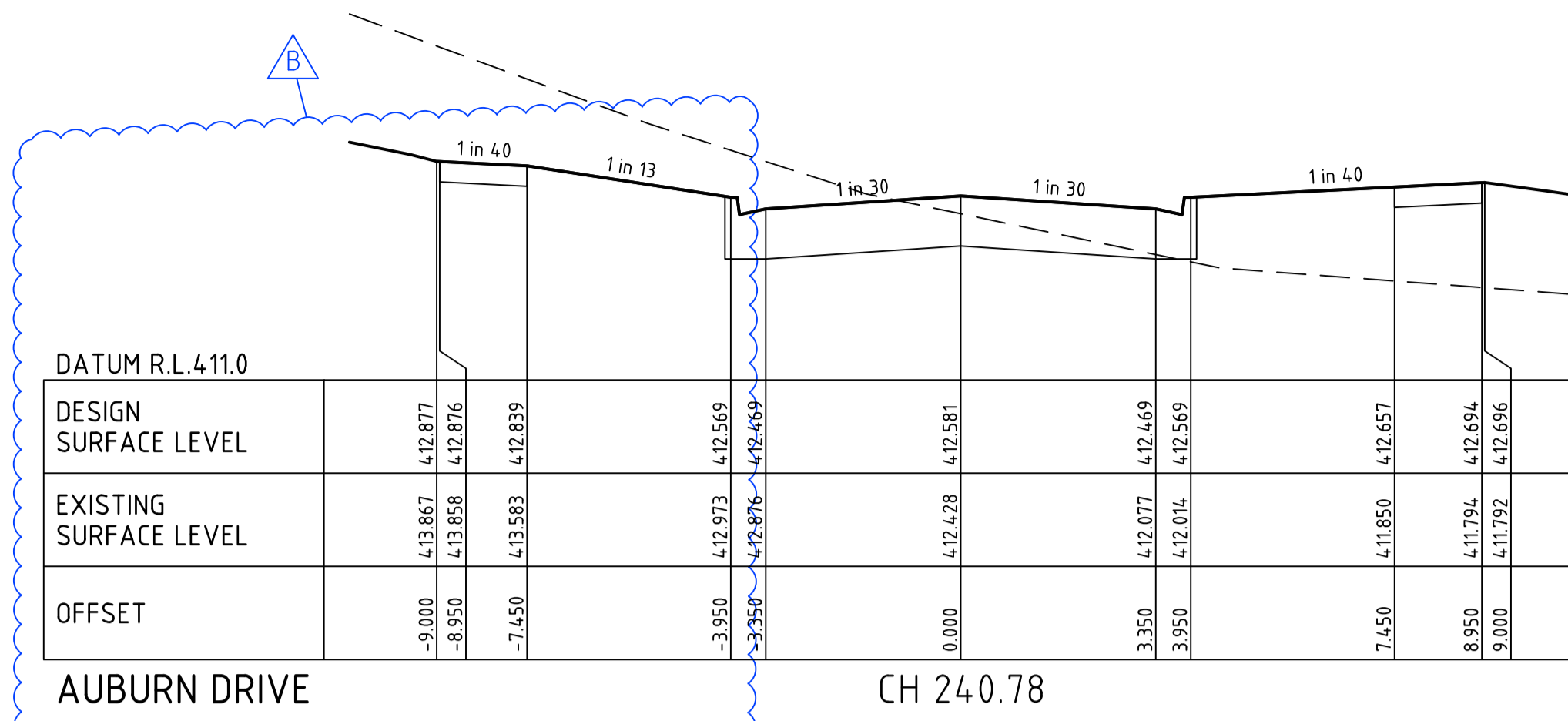
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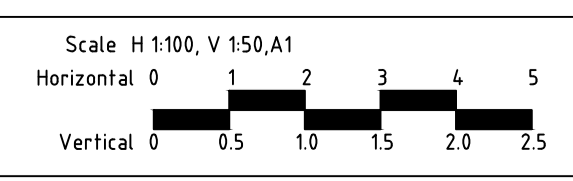
PINNACLE ESTATE
STAGE 2
ROAD LONG SECTIONS
KENSINGTON BOULEVARD
ABIWIND CREEKSIDE PTY LTD
CITY OF BALLARAT

Rev A
Drg No 302173R07



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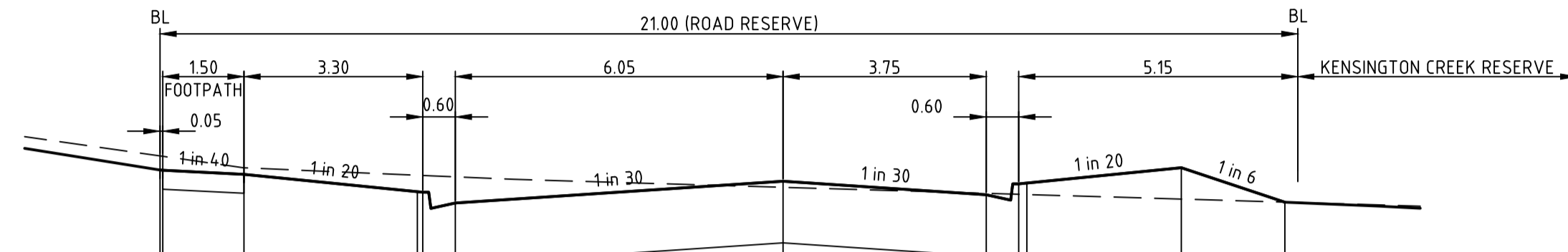
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PINNACLE ESTATE
 STAGE 2
 ROAD CROSS SECTIONS
 AUBURN DRIVE
 ABIWOOD CREEKSIDE PTY LTD
 CITY OF BALLARAT

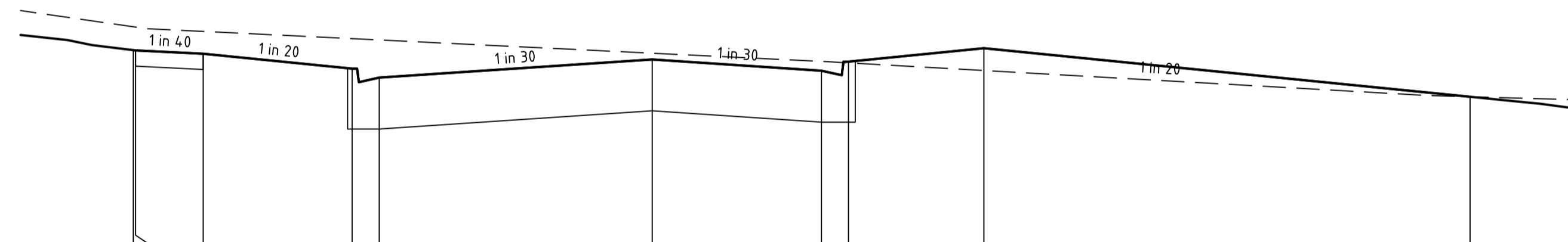
Rev B
 Drg No 302173R08



DATUM R.L.401.0											
DESIGN SURFACE LEVEL		402.895	402.893	402.785	402.620	402.520	402.772	402.597	402.697	402.847	402.588
EXISTING SURFACE LEVEL		402.955	402.952	402.845	402.715	402.762	402.665	402.610	402.601	402.556	402.528
OFFSET		-11.500	-11.450	-9.950	-6.650	-6.050	0.000	3.750	4.350	7.350	9.262

KENSINGTON BOULEVARD

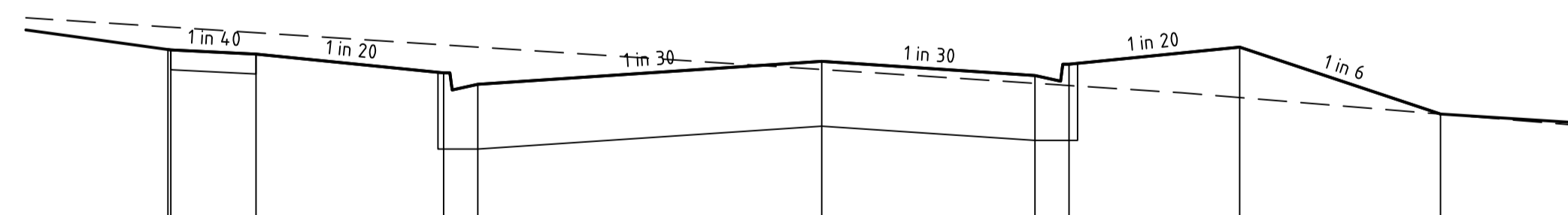
CH 123.19



DATUM R.L.401.0											
DESIGN SURFACE LEVEL		403.303	403.300	403.263	403.098	402.998	403.199	403.074	403.174	403.324	402.786
EXISTING SURFACE LEVEL		403.562	403.558	403.511	403.430	403.416	403.269	403.178	403.161	403.077	402.786
OFFSET		-11.500	-11.450	-9.950	-6.650	-6.050	0.000	3.750	4.350	7.350	18.124

KENSINGTON BOULEVARD

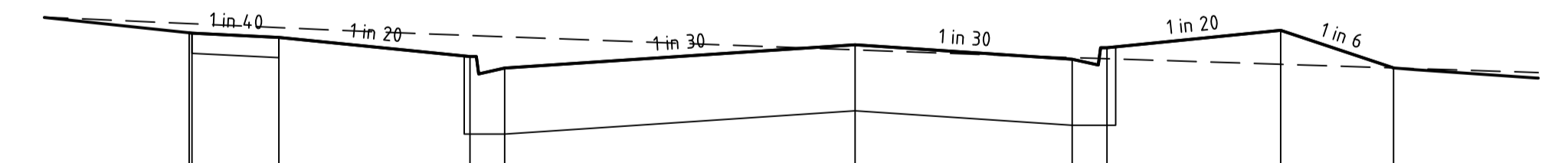
CH 92.62



DATUM R.L.402.0											
DESIGN SURFACE LEVEL		403.759	403.756	403.719	403.554	403.454	403.656	403.531	403.631	403.781	403.192
EXISTING SURFACE LEVEL		403.958	403.956	403.907	403.800	403.781	403.584	403.442	403.443	403.337	403.192
OFFSET		-11.500	-11.450	-9.950	-6.650	-6.050	0.000	3.750	4.350	7.350	10.883

KENSINGTON BOULEVARD

CH 63.56



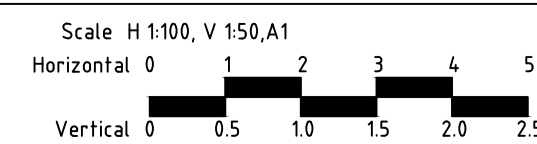
DATUM R.L.401.0											
DESIGN SURFACE LEVEL		402.429	402.426	402.389	402.224	402.124	402.325	402.201	402.301	402.451	402.126
EXISTING SURFACE LEVEL		402.508	402.507	402.474	402.406	402.395	402.282	402.215	402.205	402.157	402.126
OFFSET		-11.500	-11.450	-9.950	-6.650	-6.050	0.000	3.750	4.350	7.350	9.299

KENSINGTON BOULEVARD

CH 148.55

Rev	Amendments	App'd	Date
A	FOR APPROVAL	B.I.	23/03/16

file name 302173R4-XS.dwg layout name R4-2
 file location C:\30\302173R4\CAD
 plotted by Ashley Wilkie plot date 21/2/2017 10:51 AM
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Designed 21/03/16
 A. WILKIE
 Checked 23/03/16
 B. IBBS
 Authorised 23/03/16
 C. CLARKE

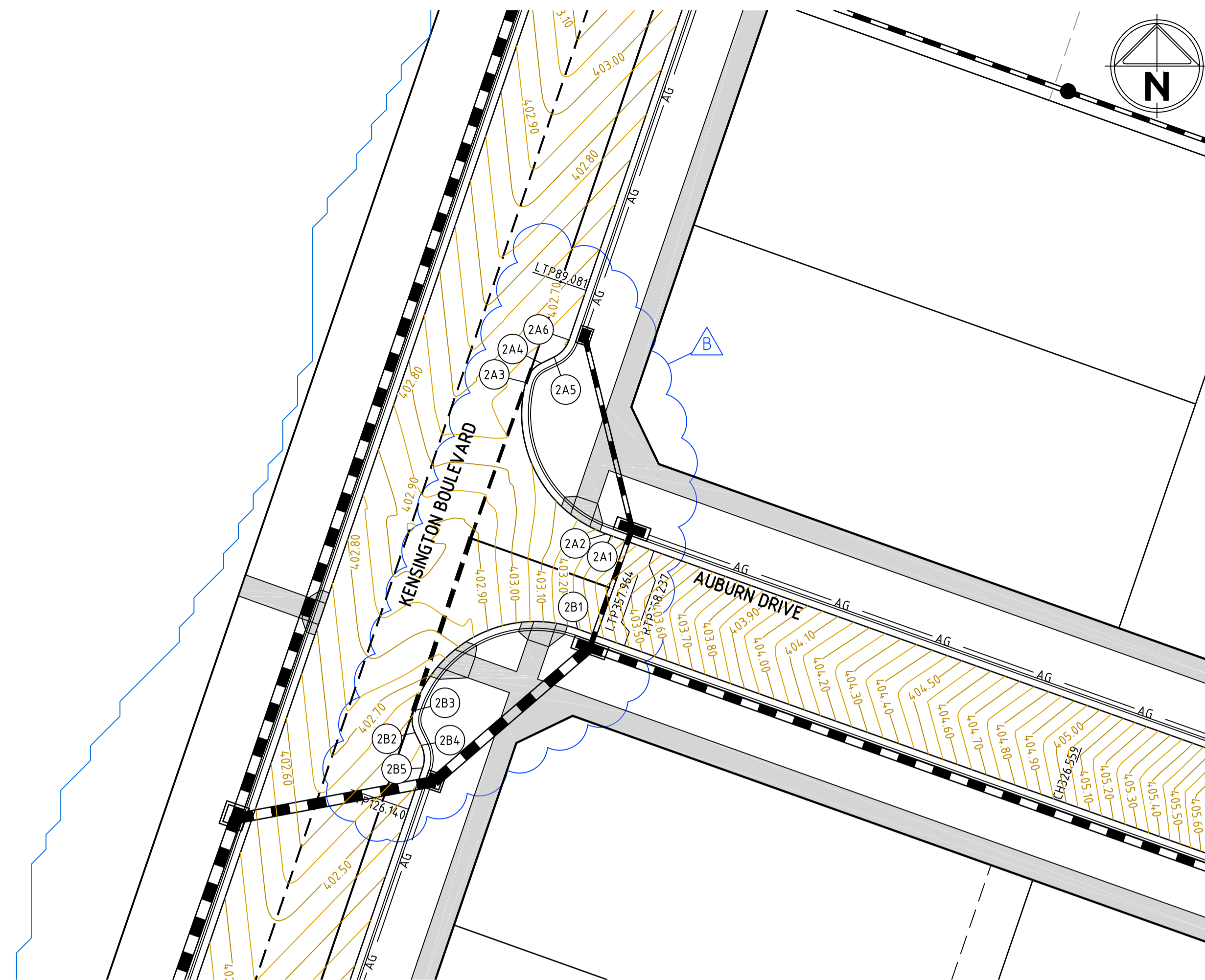
Map Reference VICROADS 571 M2
 Sheet Number 09
 Drg Status FOR APPROVAL

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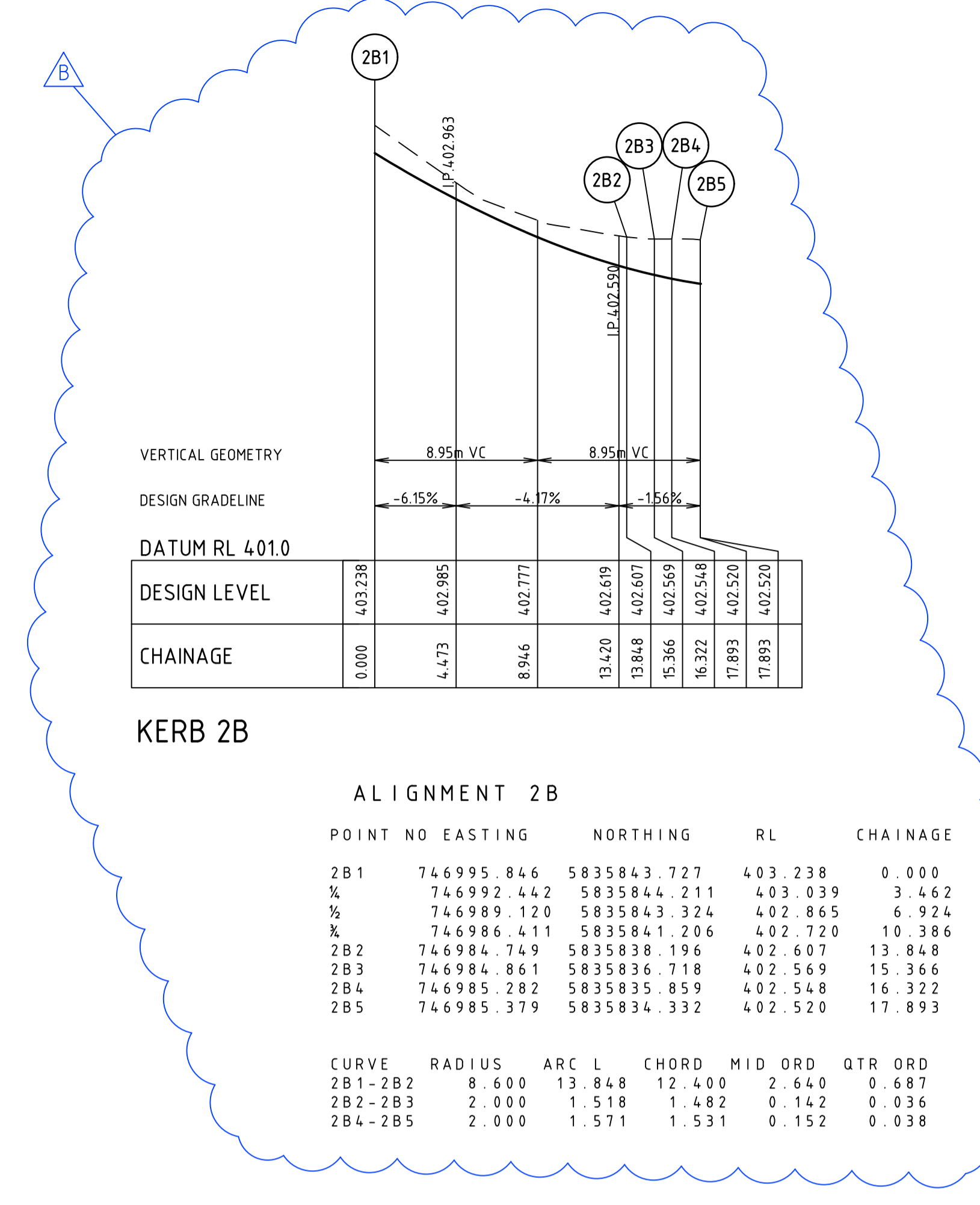


**PINNACLE ESTATE
 STAGE 2
 ROAD CROSS SECTIONS
 KENSINGTON BOULEVARD
 ABIWOOD CREEKSIDE PTY LTD
 CITY OF BALLARAT**

Rev **A**
 Drg No **302173R09**



INTERSECTION DETAIL PLAN
INTERSECTION OF KENSINGTON BVD & AUBURN DR

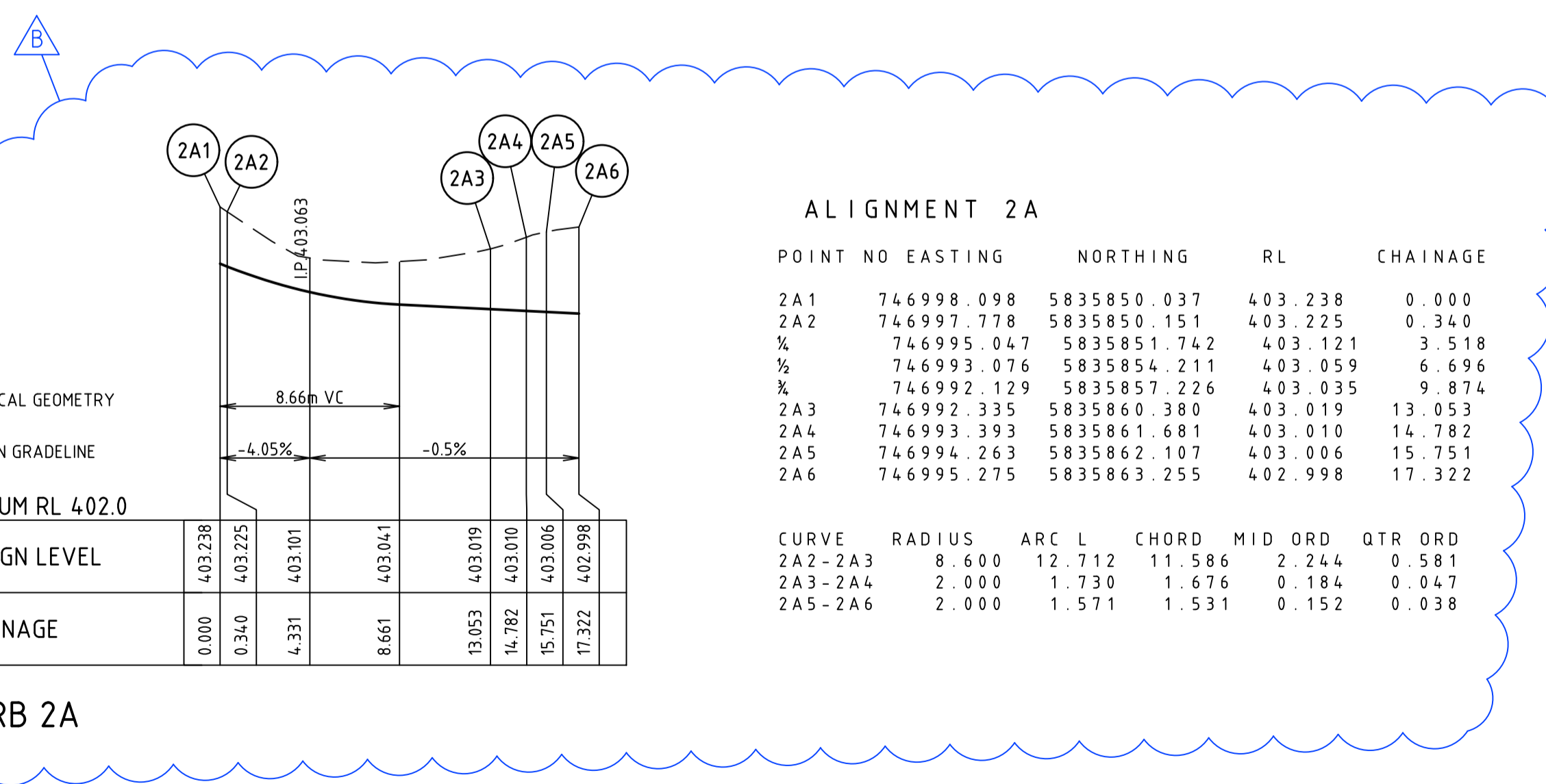


KERB 2B

ALIGNMENT 2B

POINT NO	EASTING	NORTHING	RL	CHAINAGE
2B1	746995.846	5835843.727	403.238	0.000
1/4	746992.442	5835844.211	403.039	3.462
1/2	746989.120	5835843.324	402.865	6.924
3/4	746986.411	5835841.206	402.720	10.386
2B2	746984.749	5835838.196	402.607	13.848
2B3	746984.861	5835836.718	402.569	15.366
2B4	746985.282	5835835.859	402.548	16.322
2B5	746985.379	5835834.332	402.520	17.893

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
2B1-2B2	8.600	13.848	12.400	2.640	0.687
2B2-2B3	2.000	1.518	1.482	0.142	0.036
2B4-2B5	2.000	1.571	1.531	0.152	0.038

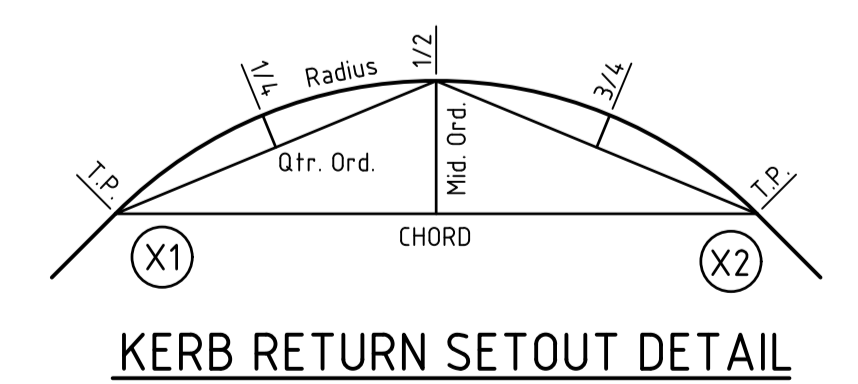


ALIGNMENT 2A

POINT NO	EASTING	NORTHING	RL	CHAINAGE
2A1	746998.098	5835850.037	403.238	0.000
2A2	746997.778	5835850.151	403.225	0.340
1/4	746995.047	5835851.742	403.121	3.518
1/2	746993.076	5835854.211	403.059	6.696
3/4	746992.129	5835857.226	403.035	9.874
2A3	746992.335	5835860.380	403.019	13.053
2A4	746993.393	5835861.681	403.010	14.782
2A5	746994.263	5835862.107	403.006	15.751
2A6	746995.275	5835863.255	402.998	17.322

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
2A2-2A3	8.600	12.712	11.586	2.244	0.581
2A3-2A4	2.000	1.730	1.676	0.184	0.047
2A5-2A6	2.000	1.571	1.531	0.152	0.038

KERB 2A



KERB RETURN SETOUT DETAIL

Rev	Amendments	App'd	Date
B	AMENDED AS PER COUNCIL COMMENTS 02/06/16	B.I.	2/11/16
A	FOR APPROVAL	B.I.	23/03/16

file name 302173R5-INT.dwg layout name R5-1
file location G:\302173R\CAD
plotted by Ashley Wilkie plot date 21/2/2017 10:51 AM
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Standard Drawing RDA1 - Version 20120911

Scale 1:250, A1
Horizontal 0 2.5 5 7.5 10 12.5
Vertical 0 2.5 5 7.5 10 12.5

Designed 21/03/16
A. WILKIE
Checked 23/03/16
B. IBBS
Authorised 23/03/16
C. CLARKE

Map Reference VICROADS 571 M2
Sheet Number 10
Drg Status FOR APPROVAL

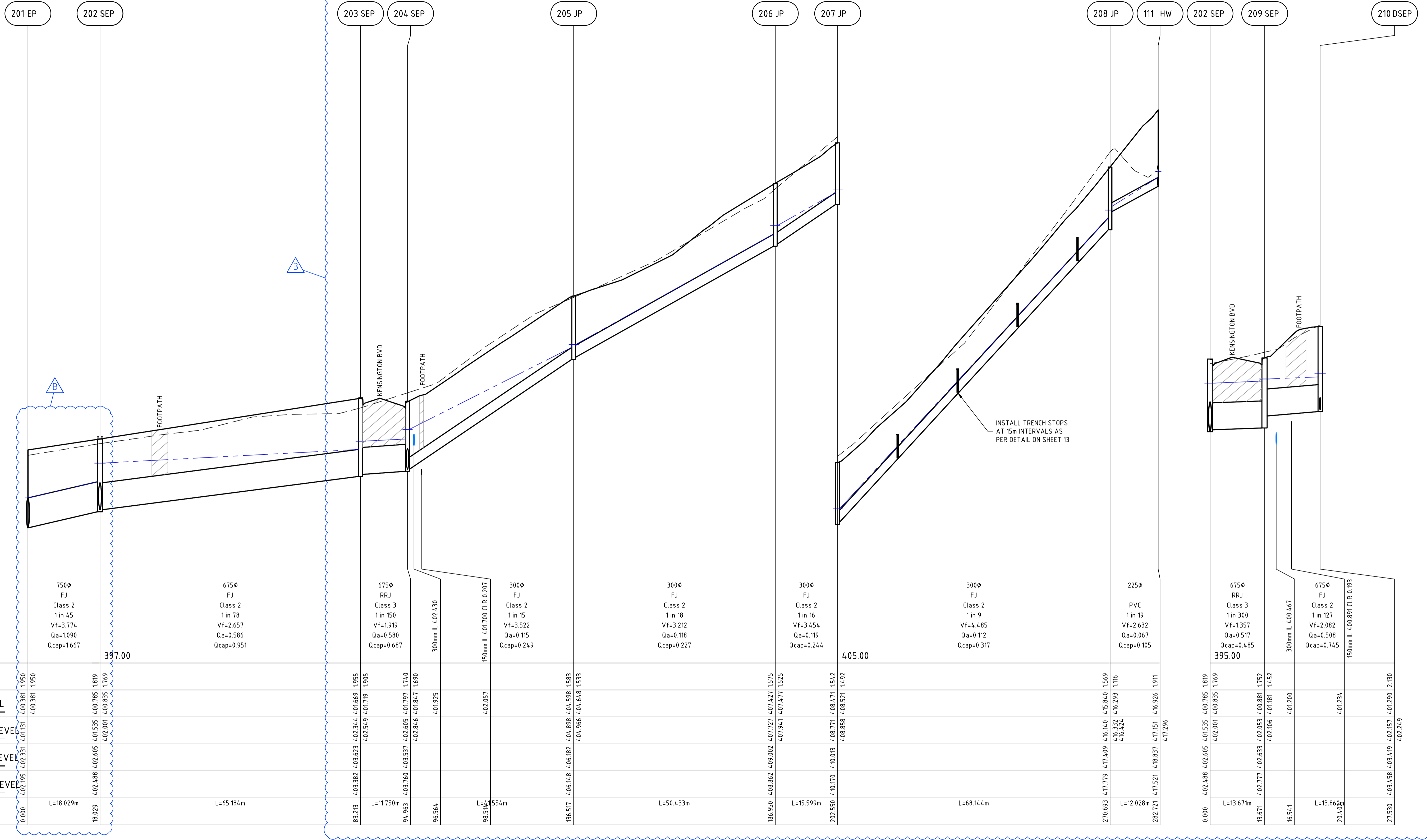
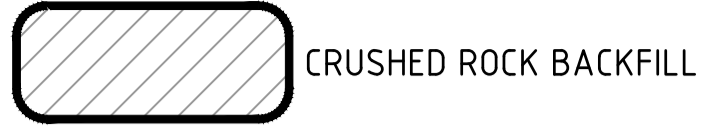
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**PINNACLE ESTATE
STAGE 2
KERB RETURN SETOUT**

ABIWOOD CREEKSIDE PTY LTD
CITY OF BALLARAT

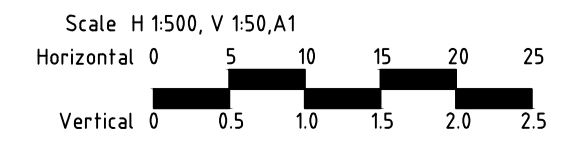
Rev B
Drg No 302173R10



Station	201 EP	202 SEP	203 SEP	204 SEP	205 JP	206 JP	207 JP	208 JP	111 HW	209 SEP	210 DSEP
Pipe Diameter	750 ϕ	750 ϕ	675 ϕ	675 ϕ	300 ϕ	300 ϕ	300 ϕ	300 ϕ	225 ϕ	675 ϕ	675 ϕ
Joint Type	FJ	FJ	RRJ	RRJ	FJ	FJ	FJ	FJ	PVC	RRJ	FJ
Pipe Class	Class 2	Class 2	Class 3	Class 3	Class 2	Class 2	Class 2	Class 2	1 in 19	Class 3	Class 2
Pipe Grade	1 in 4.5	1 in 4.5	1 in 7.8	1 in 15.0	1 in 15	1 in 18	1 in 9	1 in 9	1 in 19	1 in 300	1 in 127
Velocity (m/s)	Vf=3.774	Vf=3.774	Vf=1.919	Vf=1.919	Vf=3.522	Vf=3.212	Vf=3.454	Vf=4.485	Vf=2.632	Vf=1.357	Vf=2.082
Pipe Flow (m ³ /s)	Qa=1.090	Qa=1.090	Qa=0.586	Qa=0.580	Qa=0.115	Qa=0.118	Qa=0.119	Qa=0.112	Qa=0.067	Qa=0.517	Qa=0.508
Pipe Capacity (m ³ /s)	Qcap=1.667	Qcap=1.667	Qcap=0.951	Qcap=0.687	Qcap=0.249	Qcap=0.118	Qcap=0.227	Qcap=0.317	Qcap=0.105	Qcap=0.485	Qcap=0.745
DATUM R.L.	397.00	397.00					405.00			395.00	
DEPTH TO INVERT	4.00381	4.00381	4.01669	4.01719	4.01700	4.01727	4.01747	4.01569	4.01751	4.00881	4.01290
DESIGN INVERT LEVEL	4.00381	4.00381	4.01669	4.01719	4.02057	4.01727	4.01747	4.01569	4.01751	4.00881	4.01290
HYDRAULIC GRADE LEVEL	4.01131	4.01131	4.02344	4.02344	4.02057	4.01727	4.01747	4.01569	4.01751	4.00881	4.01290
FINISHED SURFACE LEVEL	4.02331	4.02331	4.03623	4.03623	4.03337	4.03337	4.03337	4.03337	4.03337	4.03337	4.03337
EXISTING SURFACE LEVEL	4.02195	4.02195	4.03382	4.03382	4.03160	4.03160	4.03160	4.03160	4.03160	4.03160	4.03160
CHAINAGE	L=18.029m		L=65.184m	L=11.750m	L=55.4m	L=50.433m	L=15.599m	L=68.144m	L=12.028m	L=13.671m	L=13.860m

Rev	App'd	Date	Description
B	B.I.	2/11/16	AMENDED AS PER COUNCIL COMMENTS 02/06/16
A	B.I.	23/03/16	FOR APPROVAL

file name 302173R6-DRAIN L S.dwg layout name R6-1
 file location G:\30\302173\ACAD
 plotted by Ashley Wilkie plot date 21/2/2017 10:51 AM
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 Standard Drawing RDA1 - Version 20120911

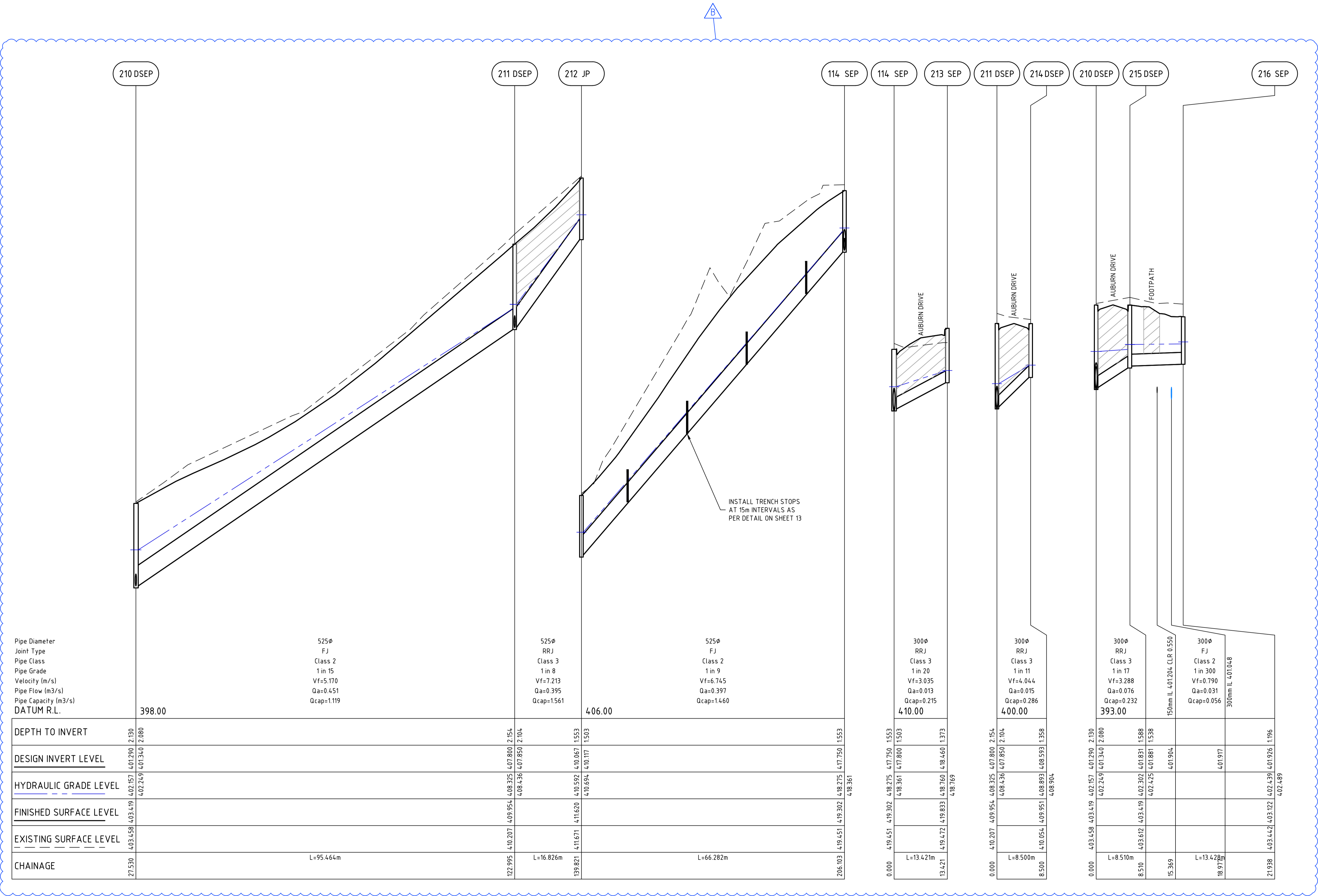


Designed 21/03/16
 A. WILKIE
 Checked 23/03/16
 B. IBBS
 Authorised 23/03/16
 C. CLARKE
 Map Reference VICROADS 571 M2
 Sheet Number 11
 Drg Status FOR APPROVAL

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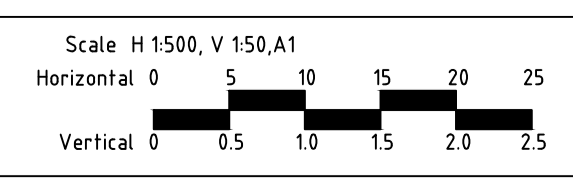
**PINNACLE ESTATE
 STAGE 2
 DRAINAGE LONG SECTIONS 01**
 ABIWOOD CREEKSIDE PTY LTD
 CITY OF BALLARAT
 Rev B
 Drg No 302173R11



	210 DSEP	211 DSEP	212 JP	114 SEP	114 SEP	213 SEP	211 DSEP	214 DSEP	210 DSEP	215 DSEP	216 SEP	
Pipe Diameter	525ø			525ø			300ø			300ø		
Joint Type	FJ			RRJ			RRJ			FJ		
Pipe Class	Class 2			Class 3			Class 3			Class 3		
Pipe Grade	1 in 15			1 in 8			1 in 20			1 in 17		
Velocity (m/s)	Vf=5.170			Vf=7.213			Vf=3.035			Vf=3.288		
Pipe Flow (m³/s)	Qa=0.451			Qa=0.395			Qa=0.013			Qa=0.076		
Pipe Capacity (m³/s)	Qcap=1.119			Qcap=1.561			Qcap=0.215			Qcap=0.232		
DATUM R.L.	398.00			406.00			410.00			393.00		
DEPTH TO INVERT	2.130	2.154	1.553	1.553	1.503	1.373	2.154	2.104	2.130	1.588	1.196	
DESIGN INVERT LEVEL	4.02.571	4.07.800	4.10.067	4.17.750	4.17.800	4.18.460	4.07.800	4.07.850	4.01.290	4.01.831	4.01.926	
HYDRAULIC GRADE LEVEL	4.02.249	4.08.225	4.10.532	4.18.275	4.18.361	4.18.760	4.08.225	4.08.336	4.02.249	4.02.302	4.02.539	
FINISHED SURFACE LEVEL	4.03.419	4.09.554	4.11.620	4.19.302	4.19.472	4.19.833	4.09.554	4.09.551	4.03.419	4.03.612	4.03.442	
EXISTING SURFACE LEVEL	4.03.558	4.10.207	4.11.671	4.19.451	4.19.472	4.19.833	4.09.554	4.09.551	4.03.558	4.03.612	4.03.442	
CHAINAGE	27.530	127.995	139.821	206.103	206.103	13.421	0.000	8.500	0.000	8.510	21.938	
		L=95.464m	L=16.826m	L=66.282m		L=13.421m		L=8.500m		L=8.510m	L=13.421m	

Rev	Amendments	App'd	Date
B	AMENDED AS PER COUNCIL COMMENTS 02/06/16	B.I.	2/11/16
A	FOR APPROVAL	B.I.	23/03/16

file name 302173R6-DRAIN L.S.dwg layout name R6-2
 file location G:\302173\ACAD
 plotted by Ashley Wilkie plot date 21/2/2017 10:51 AM
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 A. WILKIE
 Checked 23/03/16
 B. IBBS
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 C. CLARKE

Map Reference VICROADS 571 M2
 Sheet Number 12
 Drg Status FOR APPROVAL

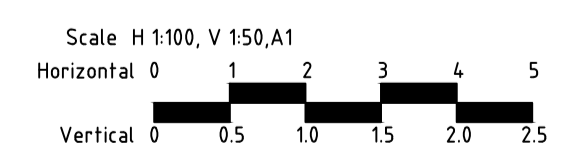
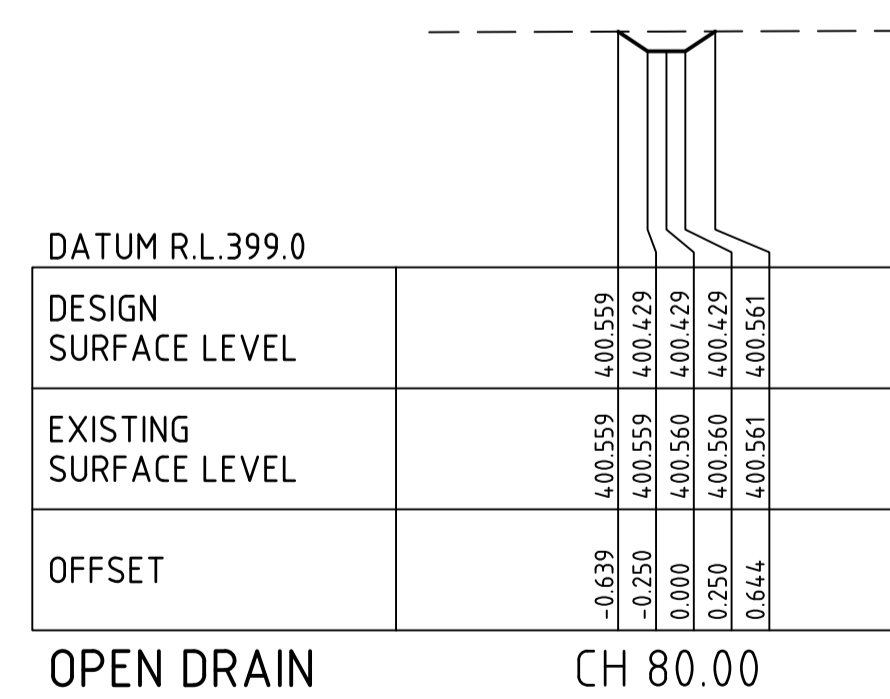
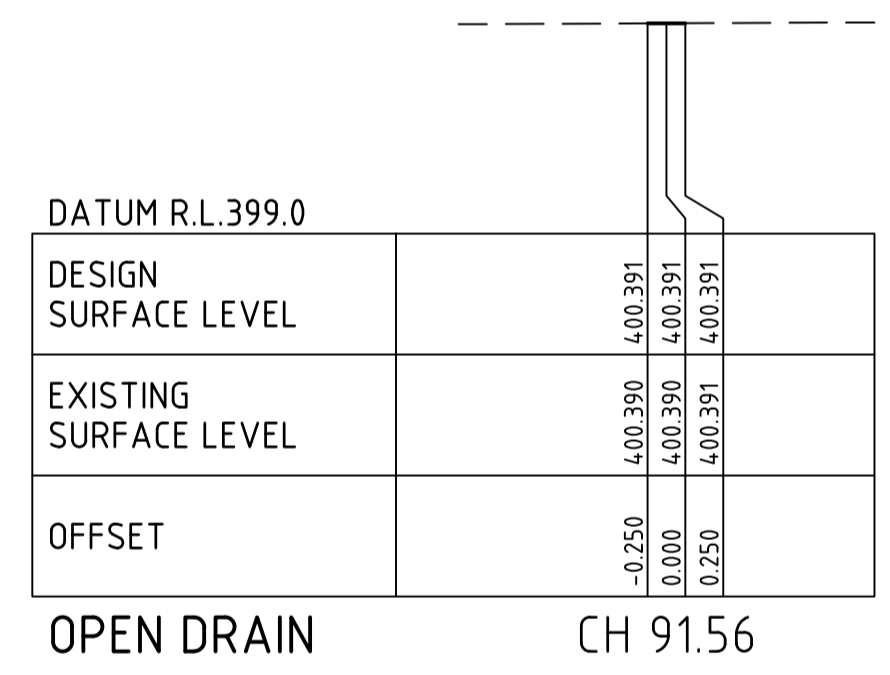
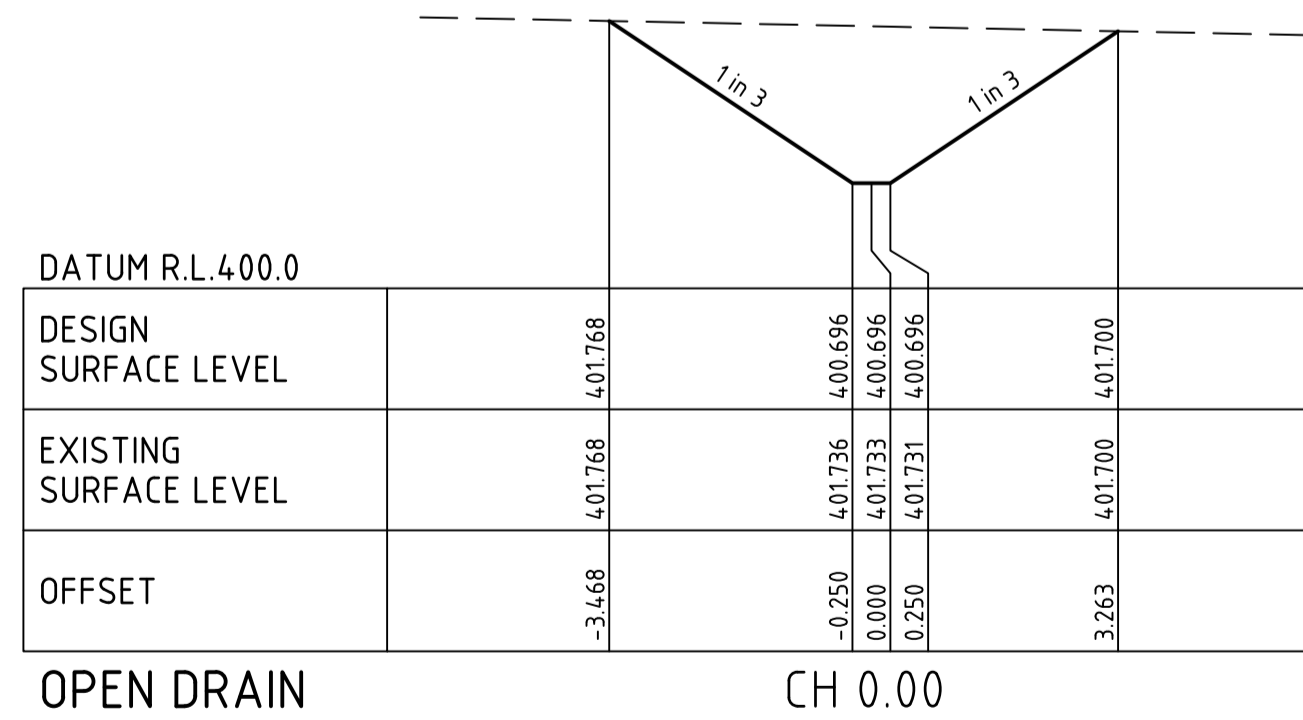
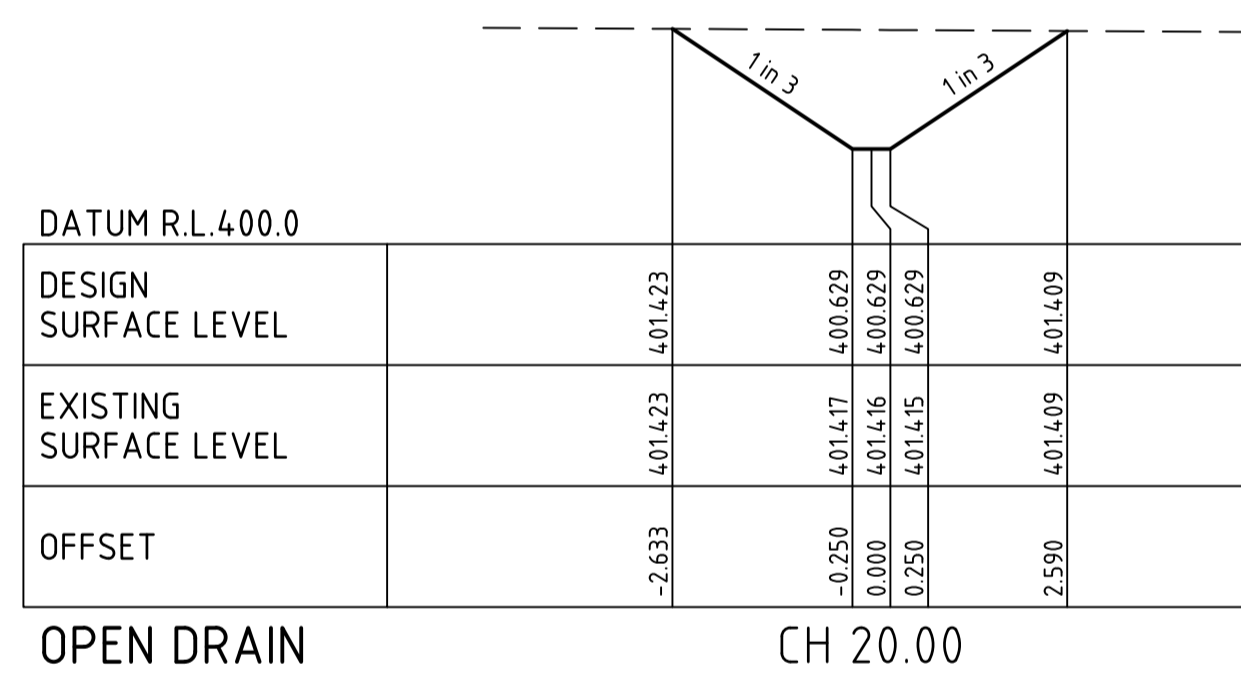
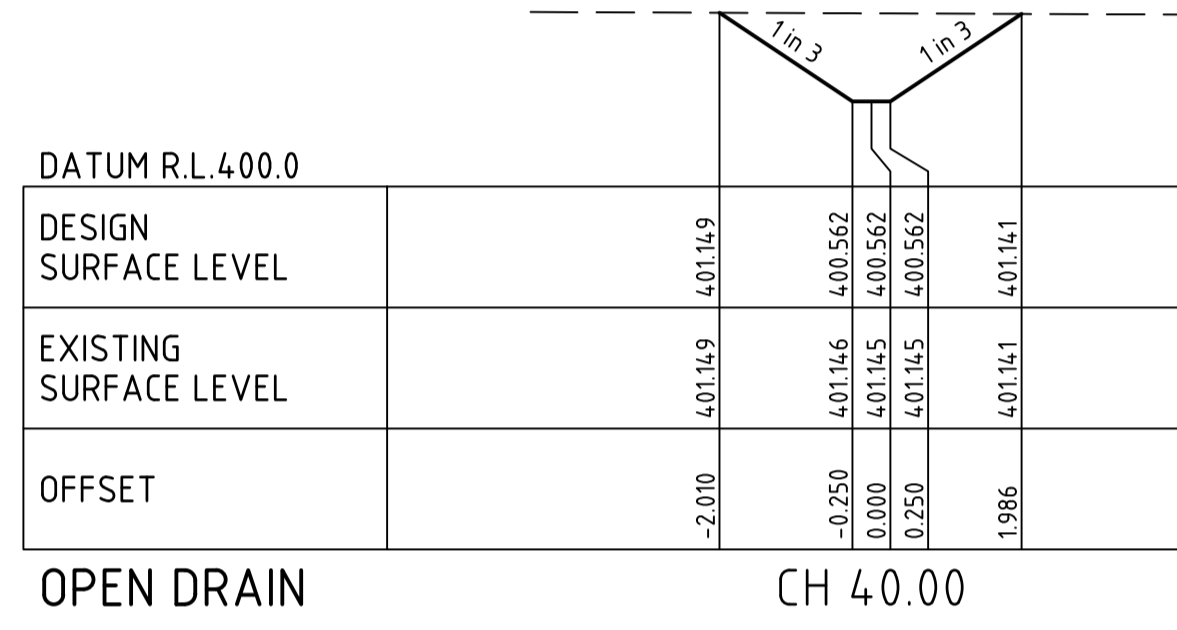
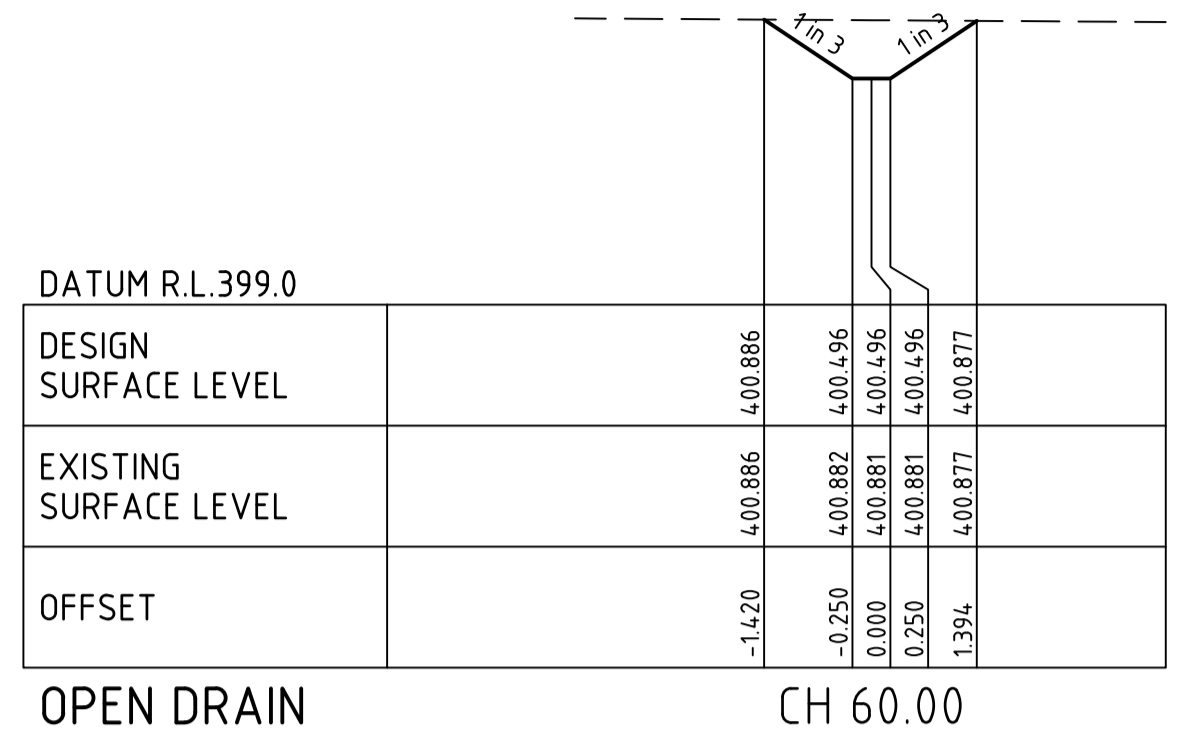
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**PINNACLE ESTATE
 STAGE 2
 DRAINAGE LONG SECTIONS 02**

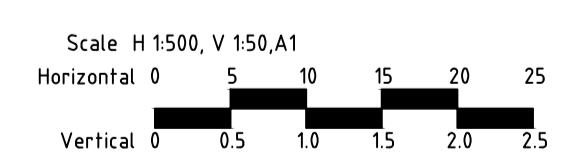
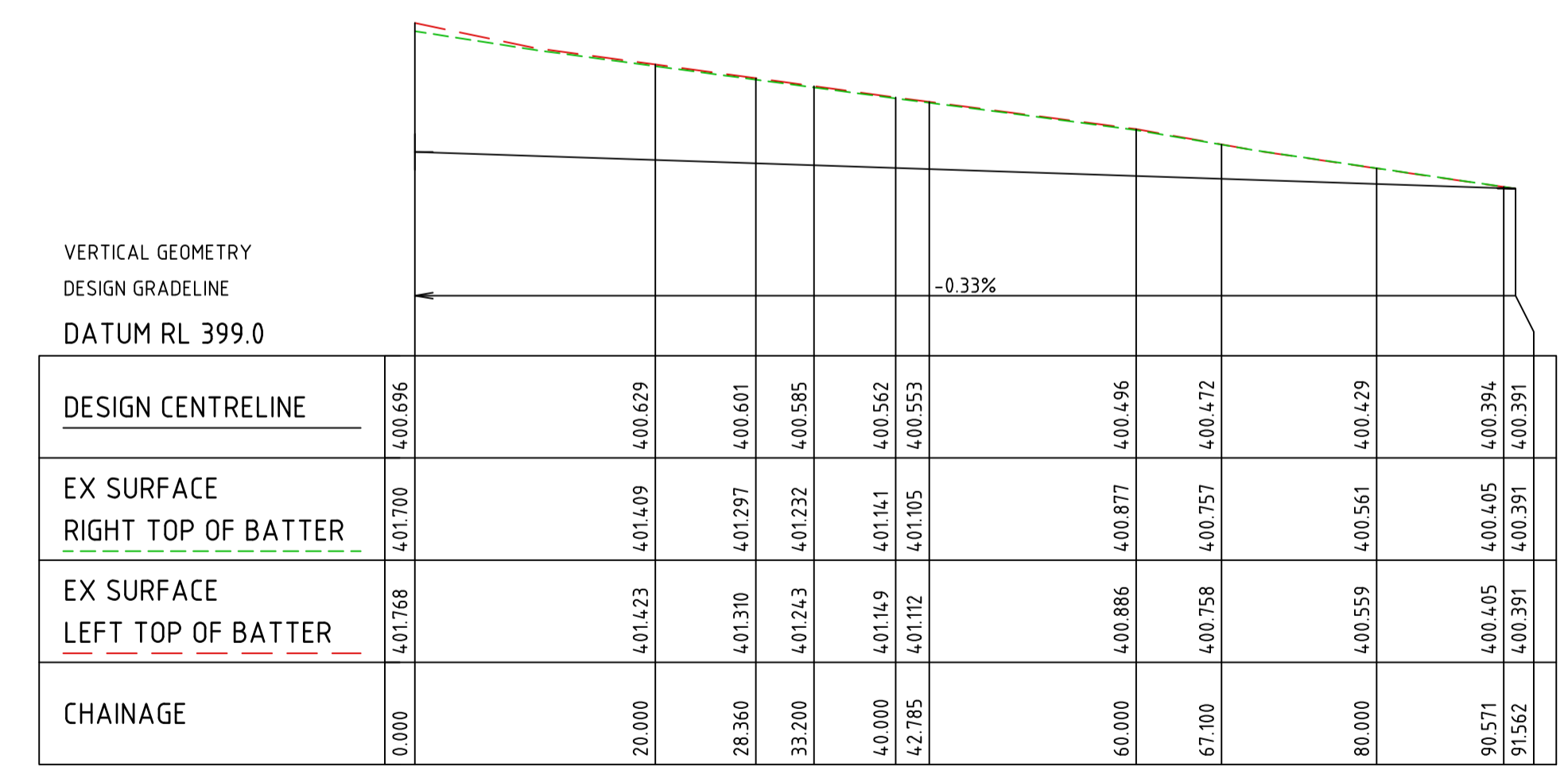
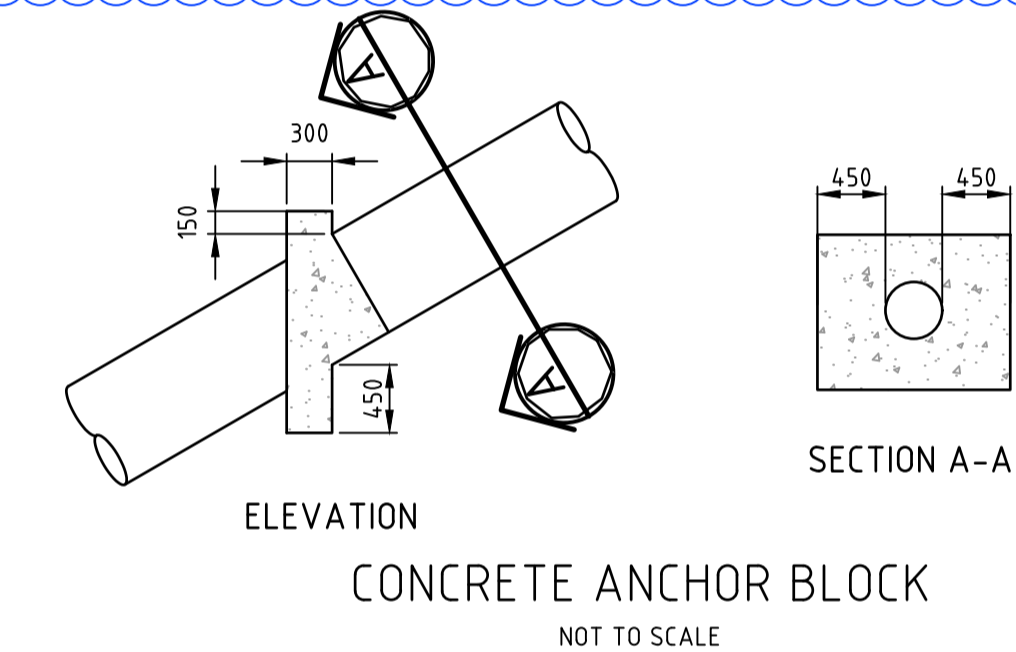
ABIWOOD CREEKSIDE PTY LTD
 CITY OF BALLARAT

Rev B
 Drg No 302173R12



DRAINAGE PIT SCHEDULE												
No.	PIT TYPE	SET OUT CO-ORDINATES		INTERNAL DIMENSIONS		INLET		OUTLET		PIT		REMARKS
		EASTING	NORTHING	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
111	HEADWALL	747184.974	5835850.496	-	-	225	416.927	225	416.926	416.926	0.00	REMOVE EXISTING ENDWALL AND CONTINUE AT DESIGN GRADE
114	SIDE ENTRY PIT	747169.221	5835807.041	900	900	525	417.800	525	417.750	419.302	1.55	CONVERT EXISTING JUNCTION PIT TO SEP. REFER COB SD-1-2
201	ENDPIPE	746966.750	5835813.905	-	-	300	417.800	300	400.381	402.331	1.95	CONTINUE EXISTING DRAIN
202	SIDE ENTRY PIT	746972.740	5835830.910	1200	1200	675	400.835	675	400.785	402.605	1.82	REFER COB SD-1-2
203	SIDE ENTRY PIT	746993.843	5835892.584	900	900	675	401.719	675	401.669	403.623	1.96	REFER COB SD-1-2
204	SIDE ENTRY PIT	747004.910	5835888.636	900	900	300	401.847	300	401.797	403.537	1.74	REFER COB SD-1-2. INSTALL 450Ø STUB AT IL402.096
205	JUNCTION PIT	747044.049	5835874.677	600	900	300	404.648	300	404.598	406.182	1.58	REFER COB SD-10-2
206	JUNCTION PIT	747091.548	5835857.728	600	900	300	407.477	300	407.427	409.002	1.58	REFER COB SD-10-2
207	JUNCTION PIT	747104.809	5835849.512	600	900	300	408.521	300	408.471	410.013	1.54	REFER COB SD-10-2
208	JUNCTION PIT	747172.948	5835850.333	900	900	225	416.293	300	415.840	417.409	1.57	REFER COB SD-10-2
209	SIDE ENTRY PIT	746986.178	5835833.424	900	1200	675	401.181	675	400.881	402.633	1.75	REFER COB SD-1-2
210	DOUBLE SIDE ENTRY PIT	746996.674	5835842.476	900	1200	525	401.340	675	401.290	403.419	2.13	REFER COB SD-2-2
211	DOUBLE SIDE ENTRY PIT	747086.587	5835810.398	900	900	525	407.850	525	407.800	409.954	2.15	REFER COB SD-2-2
212	JUNCTION PIT	747102.941	5835806.439	900	900	525	410.117	525	410.067	411.620	1.55	REFER COB SD-10-2
213	SIDE ENTRY PIT	747179.503	5835815.666	750	900	300	418.460	300	418.460	419.833	1.37	REFER COB SD-1-2
214	DOUBLE SIDE ENTRY PIT	747089.379	5835818.427	750	900	300	408.593	300	408.593	409.951	1.36	REFER COB SD-2-2
215	DOUBLE SIDE ENTRY PIT	746999.529	5835850.493	900	900	300	401.870	300	401.820	403.419	1.60	REFER COB SD-2-2
216	SIDE ENTRY PIT	746996.321	5835863.532	750	900	300	401.914	300	401.914	403.122	1.21	REFER COB SD-1-2

NOTE:
1. XY SETOUT TO PIT CENTRE
2. SETOUT LEVEL TO PIT COVER LEVEL



B	AMENDED AS PER COUNCIL COMMENTS 02/06/16	B.I.	2/11/16
A	FOR APPROVAL	B.I.	23/03/16
Rev	Amendments	App'd	Date

file name 302173R6-DRAIN L S.dwg layout name R6-3
file location C:\302173R6\CAD
plotted by Ashley Wilkie plot date 21/2/2017 10:51 AM
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AS SHOWN

Designed 21/03/16
A. WILKIE
Checked 23/03/16
B. IBBS
Authorised 23/03/16
C. CLARKE

Map Reference VICROADS 571 M2
Sheet Number 13
Drng Status FOR APPROVAL

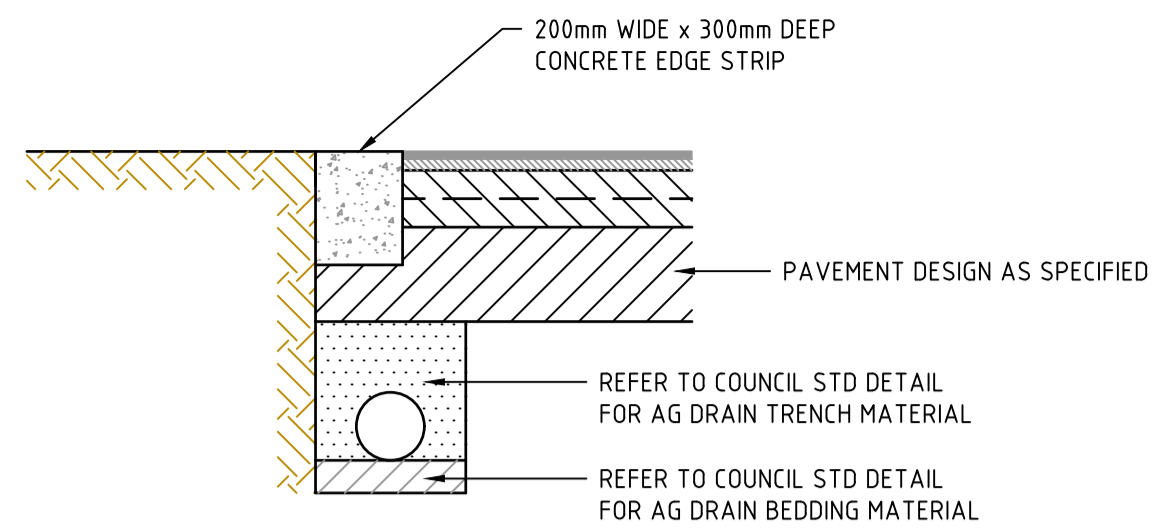
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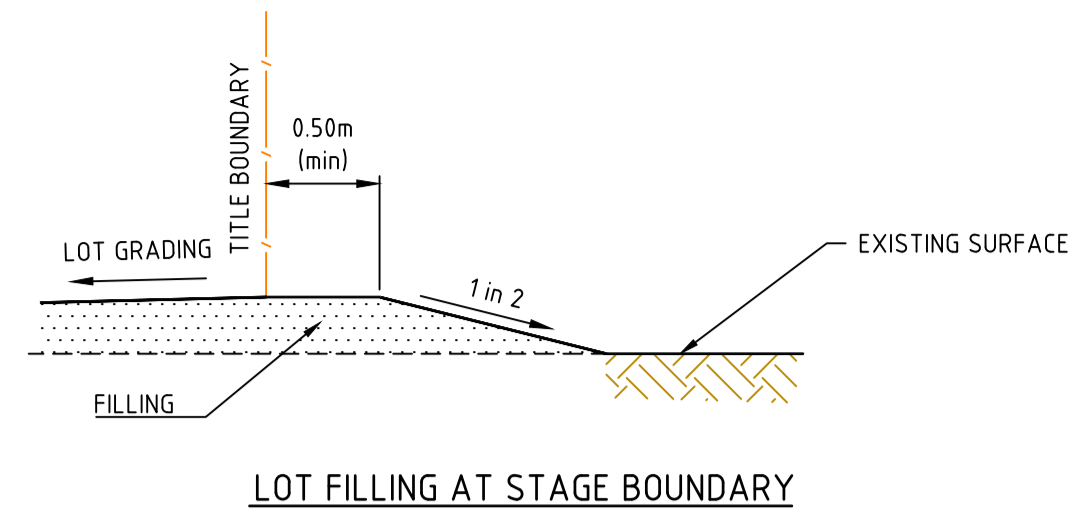
PINNACLE ESTATE
STAGE 2
DRAINAGE PIT SCHEDULE

ABIWOOD CREEKSIDE PTY LTD
CITY OF BALLARAT

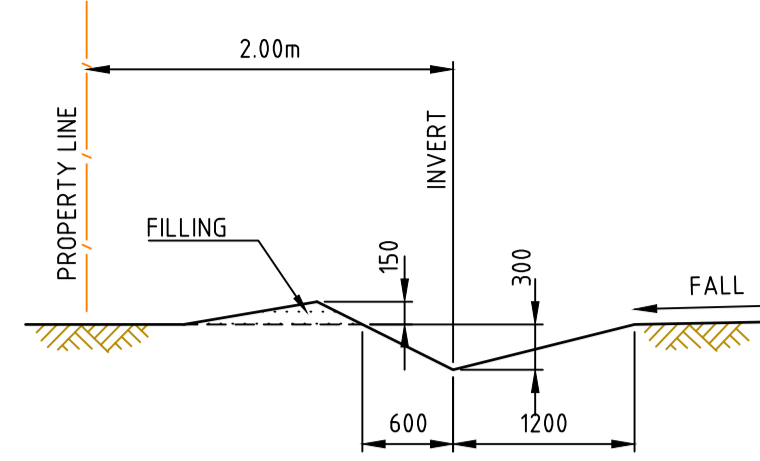
Rev B
Drng No 302173R13



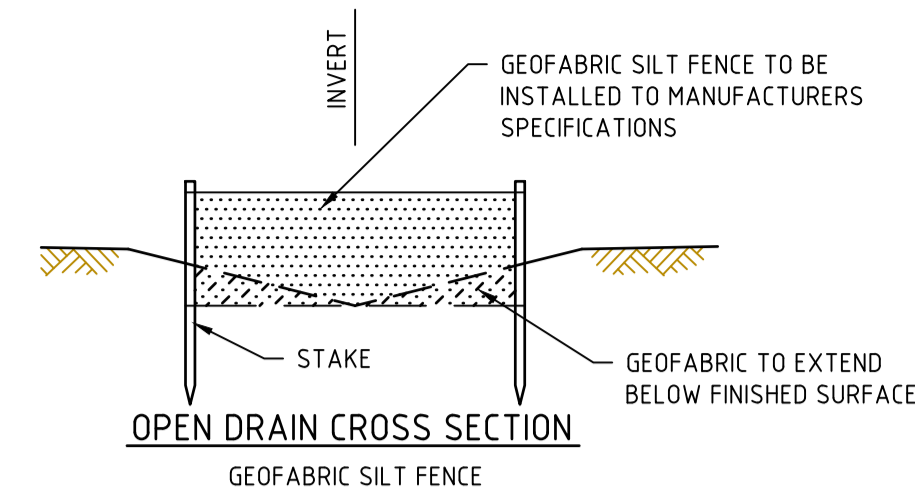
LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE - DETAIL



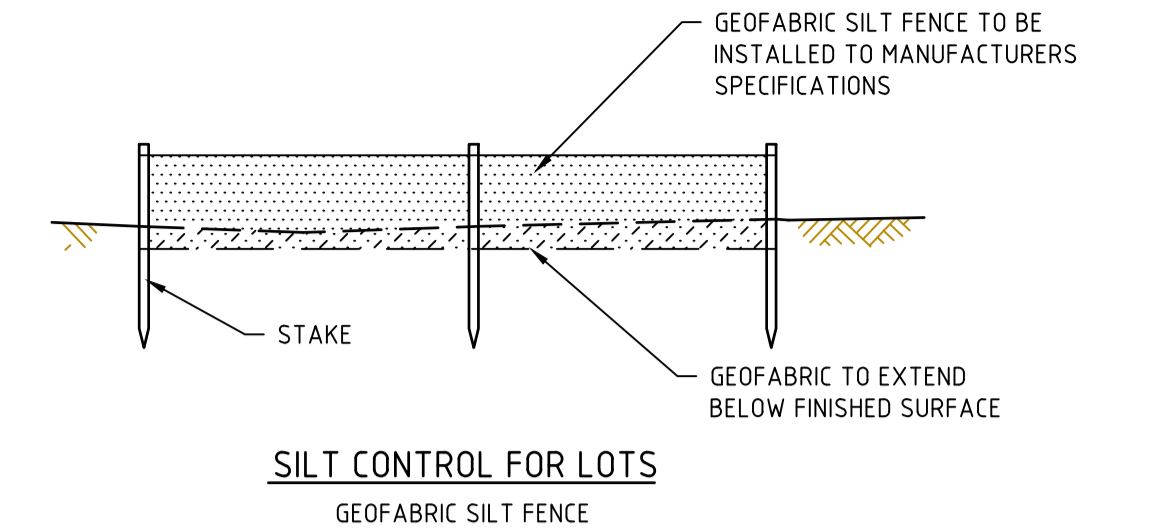
LOT FILLING AT STAGE BOUNDARY



TYPICAL CATCH DRAIN SECTION

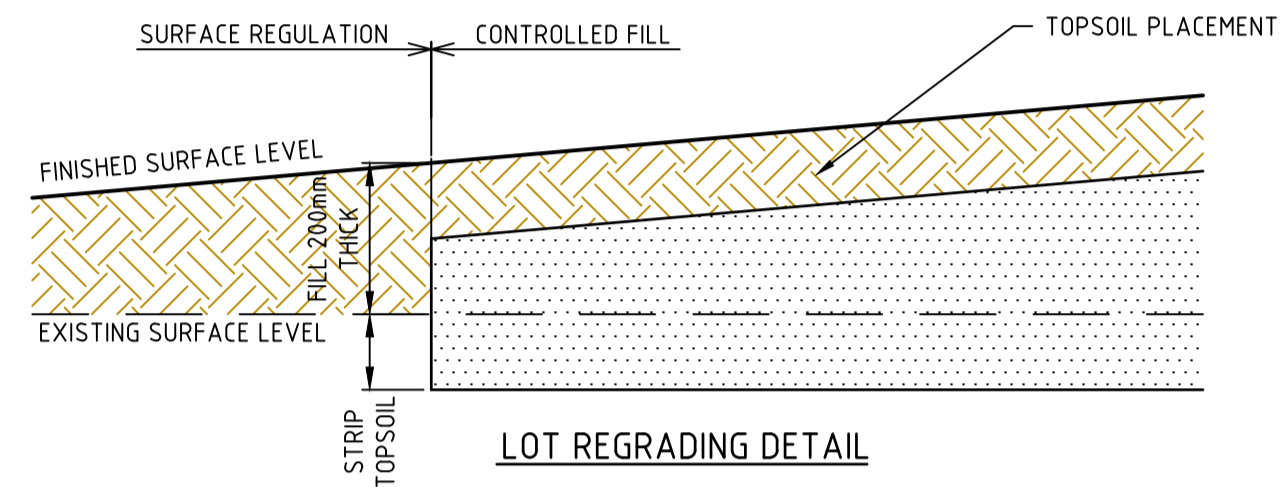


OPEN DRAIN CROSS SECTION

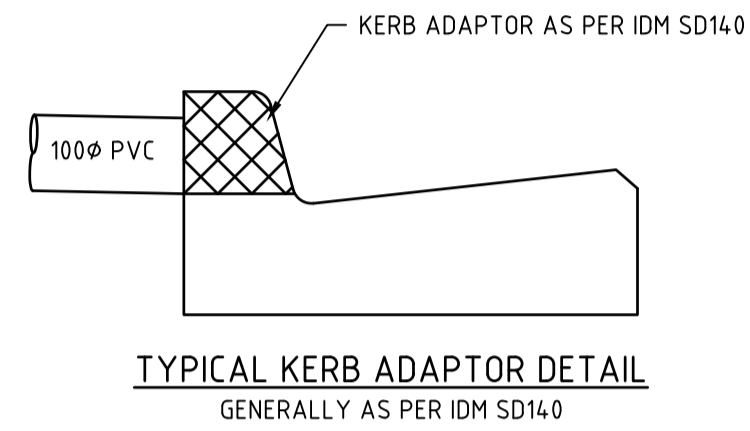


SILT CONTROL FOR LOTS

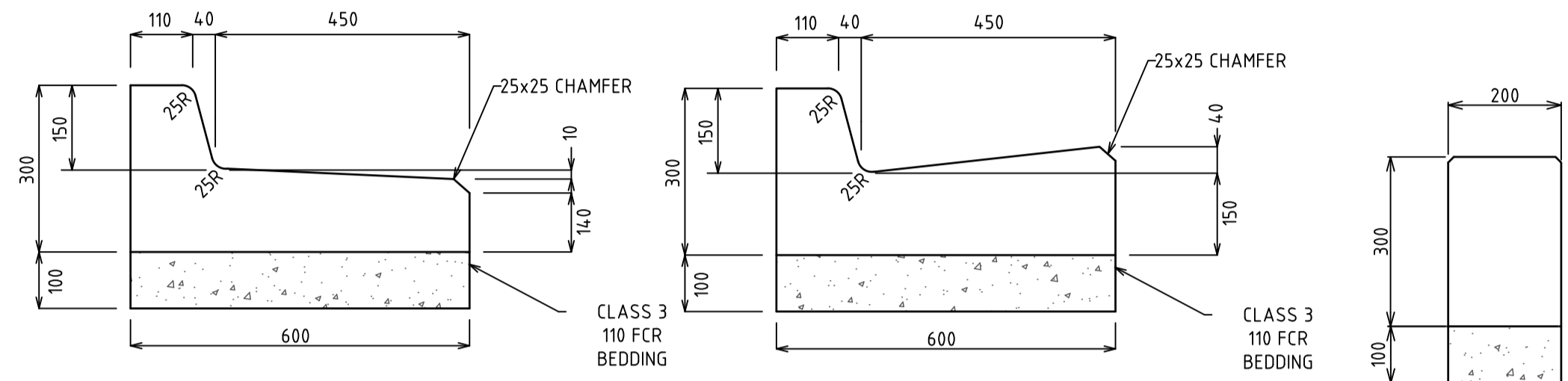
SILT CONTROL OPTIONS
NOT TO SCALE



LOT REGRADING DETAIL



TYPICAL KERB ADAPTOR DETAIL
GENERALLY AS PER IDM SD14.0

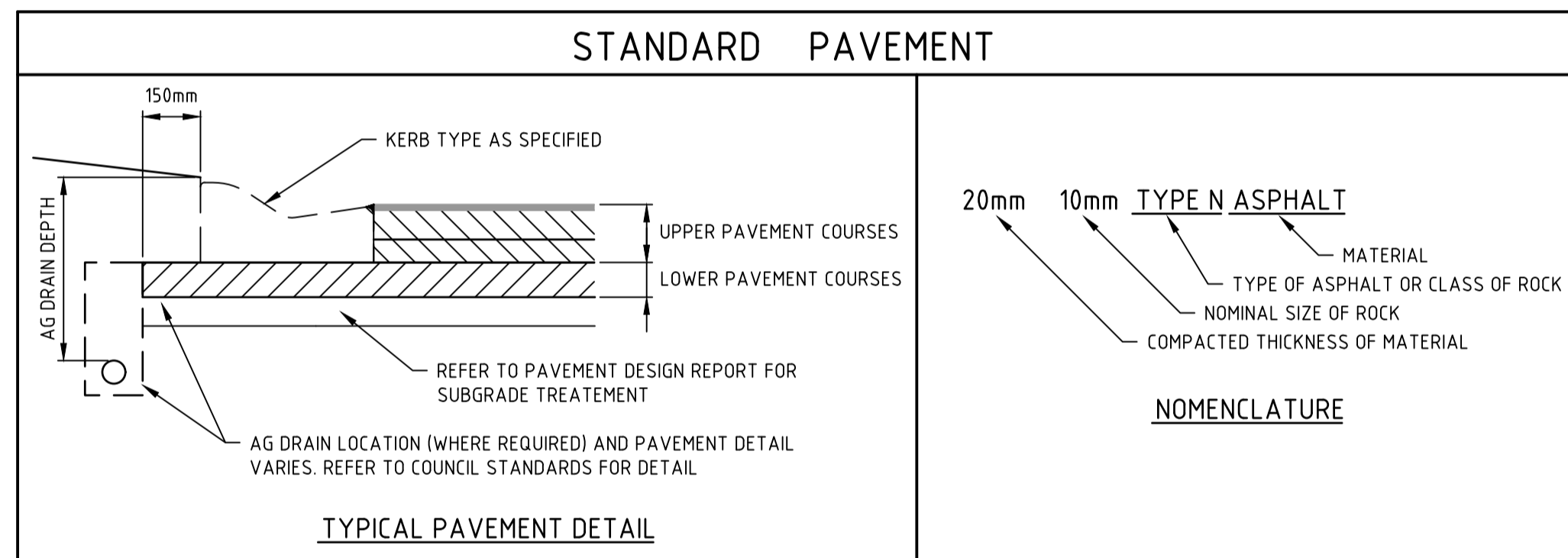


B3 - STANDARD KERB & CHANNEL

B2 - STANDARD KERB & CHANNEL

EDGE STRIP

STANDARD KERB PROFILES
NOT TO SCALE



STANDARD PAVEMENT

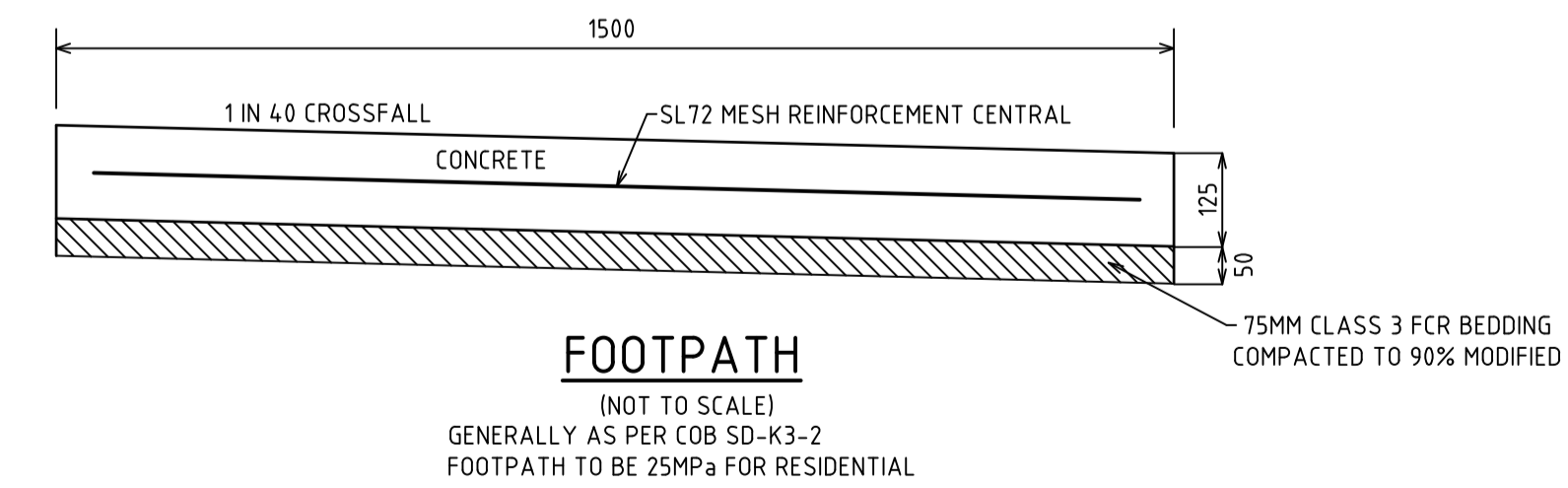
TYPICAL PAVEMENT DETAIL

NOMENCLATURE

PAVEMENTS DESIGN	
STREET NAME	AUBURN DRIVE
PAVEMENT THICKNESS	465
ASPHALT WEARING COURSE (mm) SIZE 10mm TYPE N ASPHALT CLASS 320 BITUMEN	35mm
PRIMER COURSE PRIME OR 7mm PRIMERSEAL	YES
BASE COURSE (mm) CLASS 1. 20mm FCR. COMPACTED TO 98% (MMDD)	160mm
SUBBASE COURSE (mm) CLASS 3. 20mm FCR. COMPACTED TO 96% (MMDD)	110mm
CAPPING LAYER (mm) SELECT FILL OR STABILISED CLAY MEETING THE FOLLOWING MATERIAL PROPERTIES: CBR≥7%, SWELL≤1.5% COMPACTED TO 98% (SMDD)	160mm
SUBGRADE (mm) MATERIAL AS FOUND (MIN CBR OF 2%). COMPACTED TO 98% (SMDD)	200mm

PAVEMENTS DESIGN	
STREET NAME	KENSINGTON BVD
PAVEMENT THICKNESS	570
ASPHALT WEARING COURSE (mm) SIZE 14mm TYPE HP ASPHALT A10E BITUMEN	40mm
PRIMER COURSE PRIME OR 7mm PRIMERSEAL	YES
BASE COURSE (mm) CLASS 1. 20mm FCR. COMPACTED TO 100% (MMDD)	150mm
SUBBASE COURSE (mm) CLASS 3. 40mm FCR. COMPACTED TO 98% (MMDD)	180mm
CAPPING LAYER (mm) SELECT FILL OR STABILISED CLAY MEETING THE FOLLOWING MATERIAL PROPERTIES: CBR≥7%, SWELL≤1.5% COMPACTED TO 98% (SMDD)	200mm
SUBGRADE (mm) MATERIAL AS FOUND (MIN CBR OF 2%). COMPACTED TO 98% (SMDD)	200mm

NOTES:
THE CONTRACTOR MUST UTILISE WARM MIX ASPHALT REPLACING 40% BY WEIGHT OF HOT MIX ASPHALT.
MMDD - MODIFIED MAXIMUM DRY DENSITY.
SMDD - STANDARD MAXIMUM DRY DENSITY.



FOOTPATH

(NOT TO SCALE)
GENERALLY AS PER COB SD-K3-2
FOOTPATH TO BE 25MPa FOR RESIDENTIAL

PAVEMENT DETAILS

THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY TONKIN & TAYLOR PTY LTD WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIRE IS NOT RESPONSIBLE FOR THE WORK OF TONKIN & TAYLOR PTY LTD.

THE DESIGN HAS BEEN EXTRACTED FROM THE TONKIN & TAYLOR PTY LTD REPORT ON "GEOTECHNICAL INVESTIGATION PINNACLE ESTATE". THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

A COPY OF THE DOCUMENT WILL BE PROVIDED TO YOU ON REQUEST.

SPIRE 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 TONKIN & TAYLOR PTY LTD AND SENT TO SPIRE.

Rev	Amendments	App'd	Date
B	AMENDED AS PER COUNCIL COMMENTS 02/06/16	B.I.	2/11/16
A	FOR APPROVAL	B.I.	23/03/16

file name 302173R7.STD.dwg layout name R7-1
file location G:\30\302173\ACAD
plotted by Ashley Wilkie plot date 21/2/2017 10:51 AM
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Standard Drawing RDA1 - Version 20120911

Scale

NOT TO SCALE

Designed 21/03/16
A. WILKIE
Checked 23/03/16
B. IBBS
Authorised 23/03/16
C. CLARKE

Map Reference VICROADS 571 M2
Sheet Number 14
Drg Status FOR APPROVAL

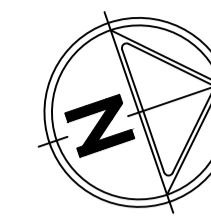
spiire ABN 55 050 029 635
16 Bridge Street Bendigo Victoria 3550 Australia T 61 3 5448 2500
spiire.com.au



**PINNACLE ESTATE
STAGE 2
STANDARD DETAILS**

ABIWOOD CREEKSIDE PTY LTD
CITY OF BALLARAT

Rev B
Drg No 302173R14



LEGEND

S1 STREET NAME PLATES TO BE IN ACCORDANCE WITH CITY OF BALLARAT STANDARDS, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE

S2 R1-2A

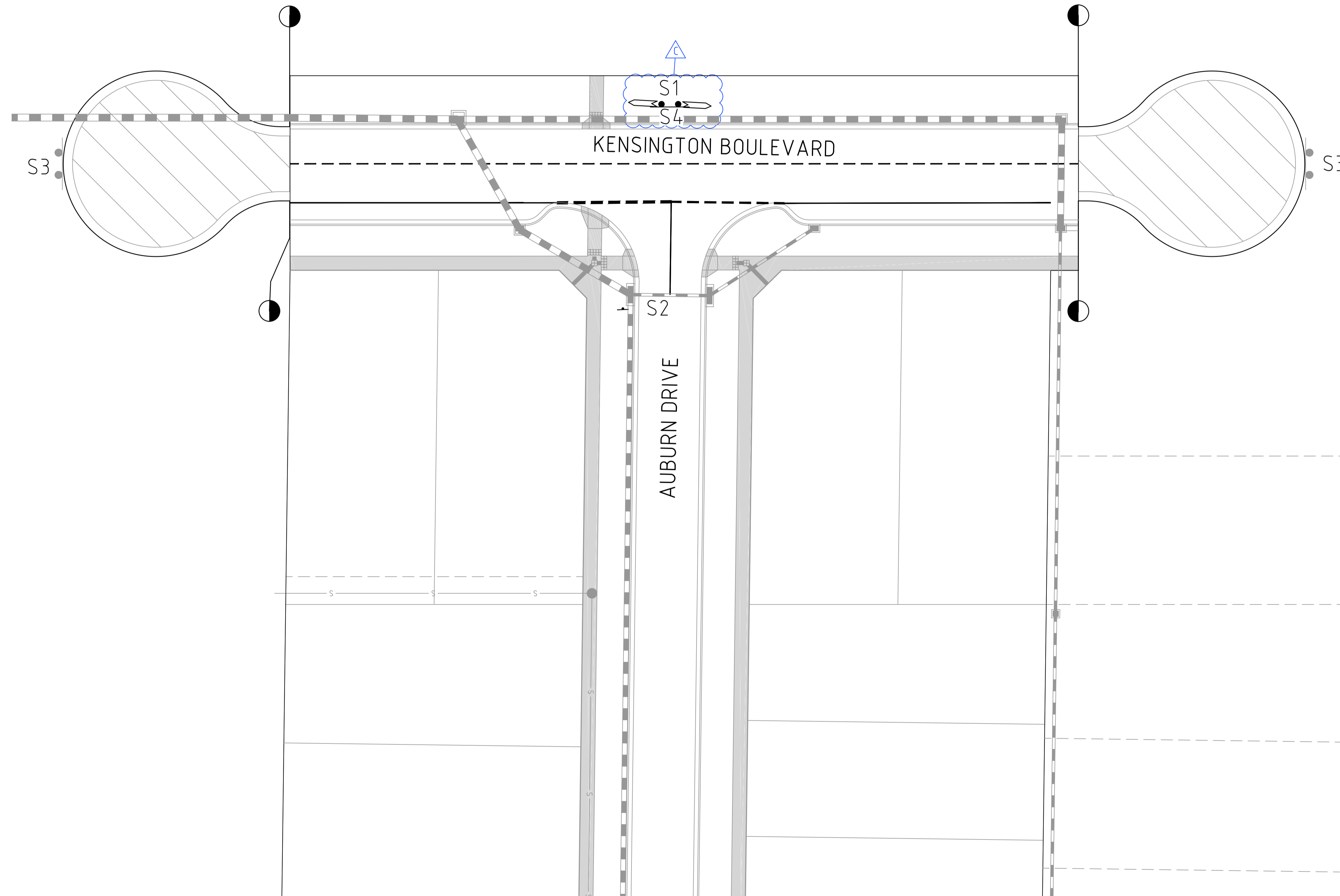
S3 G9-20
 D4-5

S4 D4-2-1

NOTE:

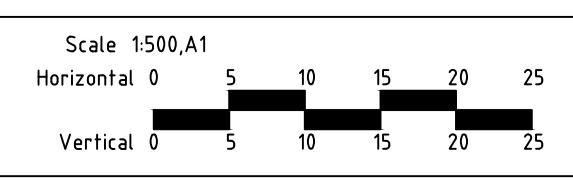
1. STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY THE RELOCATION.

2. LINEMARKING TO BE IN ACCORDANCE WITH AS1742.2 - 2009



Rev	Amendments	App'd	Date
B	AMENDED AS PER COUNCIL COMMENTS 02/06/16	B.I.	2/11/16
A	FOR APPROVAL	B.I.	23/03/16

file name 302173R8-LMARK.dwg layout name R8-1
 file location G:\302173\ACAD
 plotted by Ashley Wilkie plot date 21/2/2017 10:51 AM
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 Standard Drawing RDA1 - Version 20120911



Designed 21/03/16
 A. WILKIE
Checked 23/03/16
 B. IBBS
Authorised 23/03/16
 C. CLARKE

Map Reference VICROADS 571 M2
Sheet Number 15
Drng Status FOR APPROVAL

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**PINNACLE ESTATE
 STAGE 2
 SIGNAGE & LINEMARKING PLAN**

ABIWOOD CREEKSIDE PTY LTD
 CITY OF BALLARAT

Rev B
Drng No 302173R15