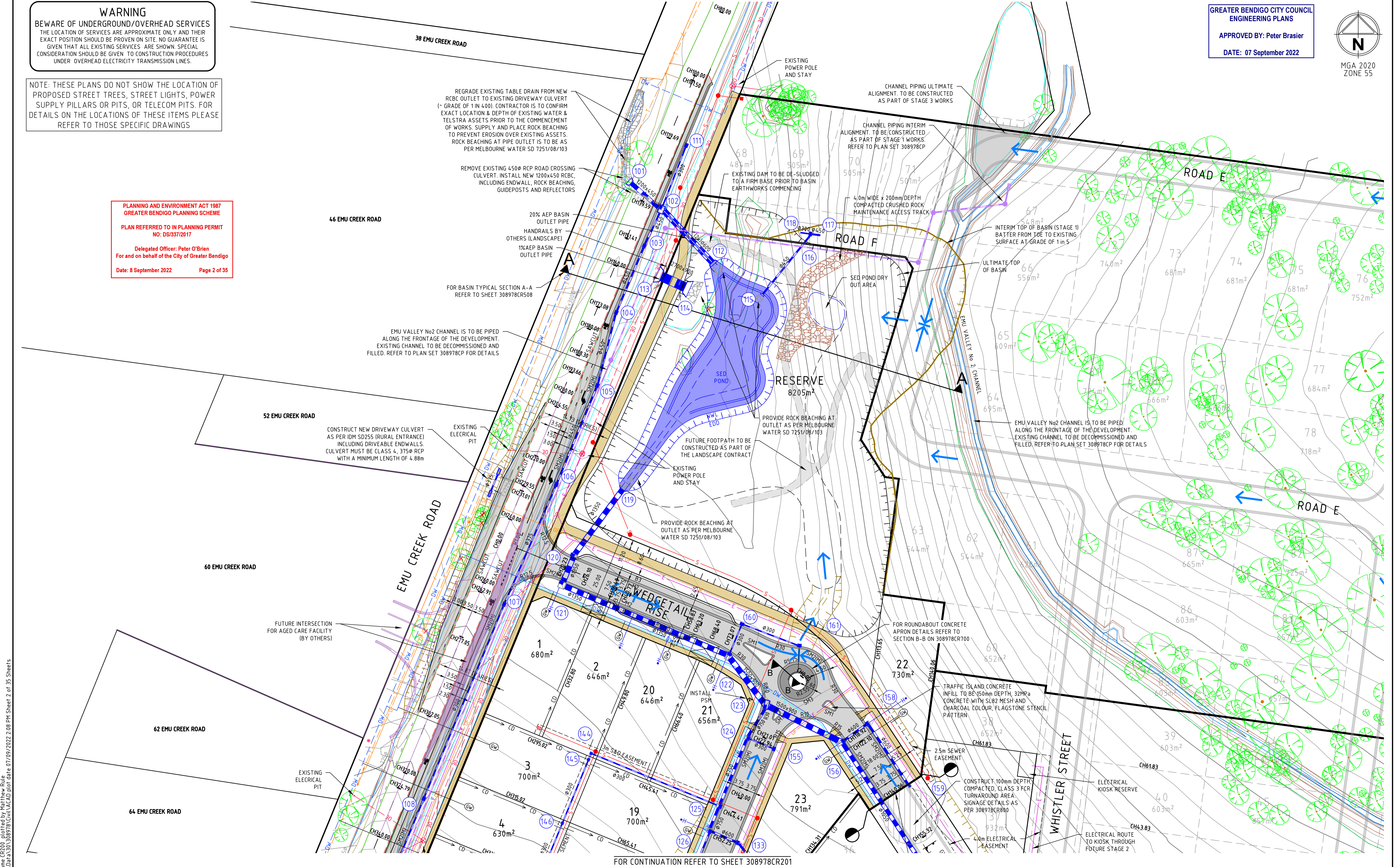


WARNING
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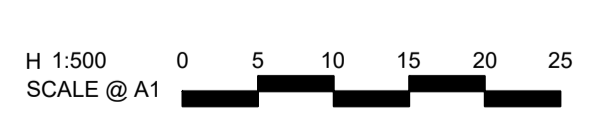
GREATER BENDIGO CITY COUNCIL
 ENGINEERING PLANS
 APPROVED BY: Peter Brasier
 DATE: 07 September 2022
 MGA 2020
 ZONE 55

PLANNING AND ENVIRONMENT ACT 1987
 GREATER BENDIGO PLANNING SCHEME
 PLAN REFERRED TO IN PLANNING PERMIT
 NO: DS/537/2017
 Delegated Officer: Peter O'Brien
 For and on behalf of the City of Greater Bendigo
 Date: 8 September 2022 Page 2 of 35



file name: 308978CR200.dwg, location: c:\pwworkspace\CDP200, sheet: 2 of 35, date: 07/09/2022, 2:08 PM, sheet 2 of 35, sheets

Rev	Amendments	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22



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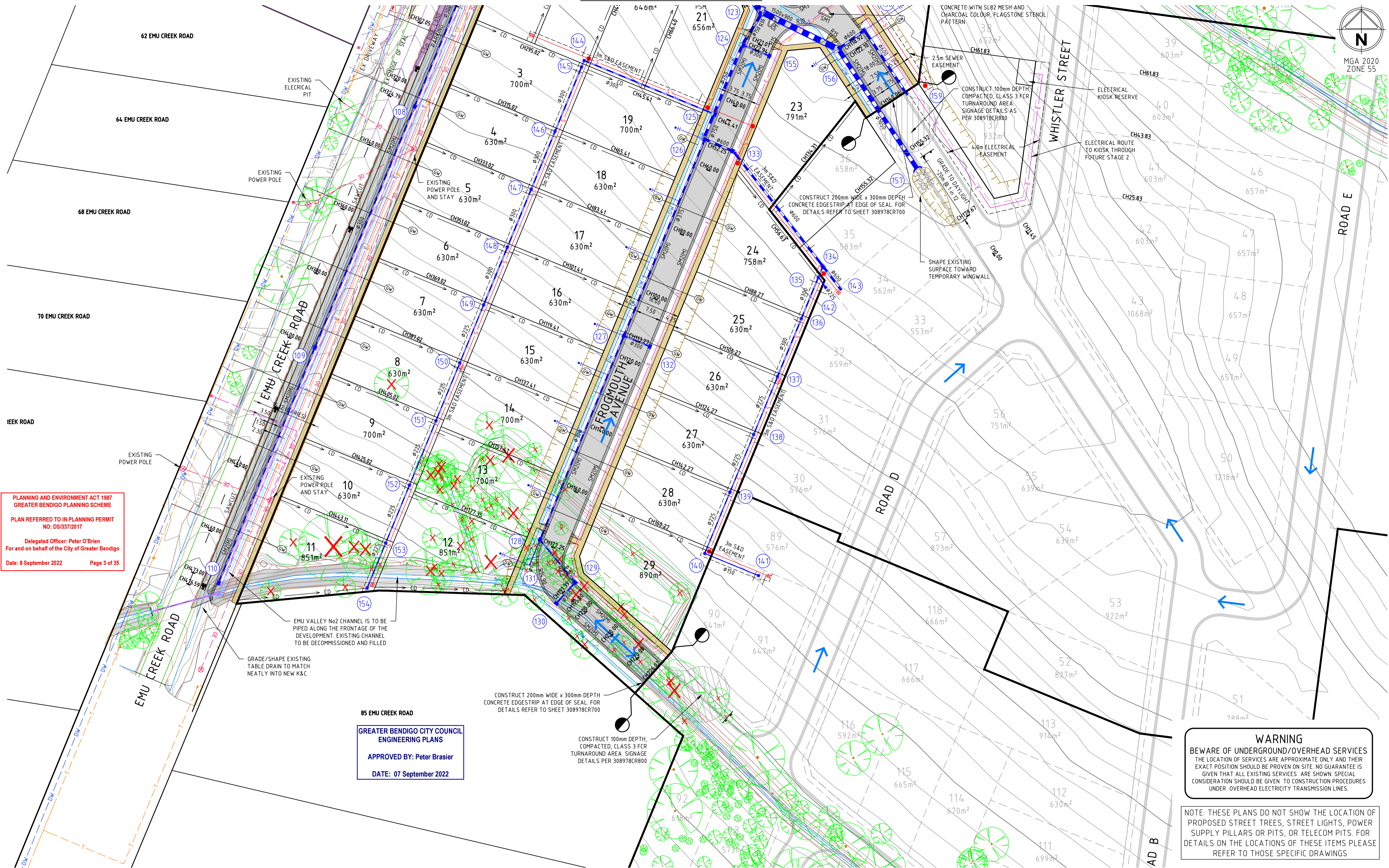


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 Authorised: C.CLARKE
 Checked: B.IBBS
 Date: SEPTEMBER 2022

EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD & DRAINAGE LAYOUT PLAN
SHEET 1 OF 2
 CITY OF GREATER BENDIGO (PP - DS/337/2017)
 EMU CREEK CONSTRUCTIONS PTY LTD
PRELIMINARY Drg No: 308978CR200 Rev: D

FOR CONTINUATION REFER TO SHEET 308978CR200



PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 3 of 35

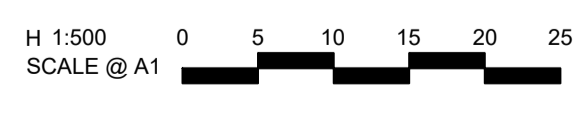
GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 07 September 2022

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Rev	Amendments	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22



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Authorised
C.CLARKE

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B.IBBS
Date
SEPTEMBER 2022

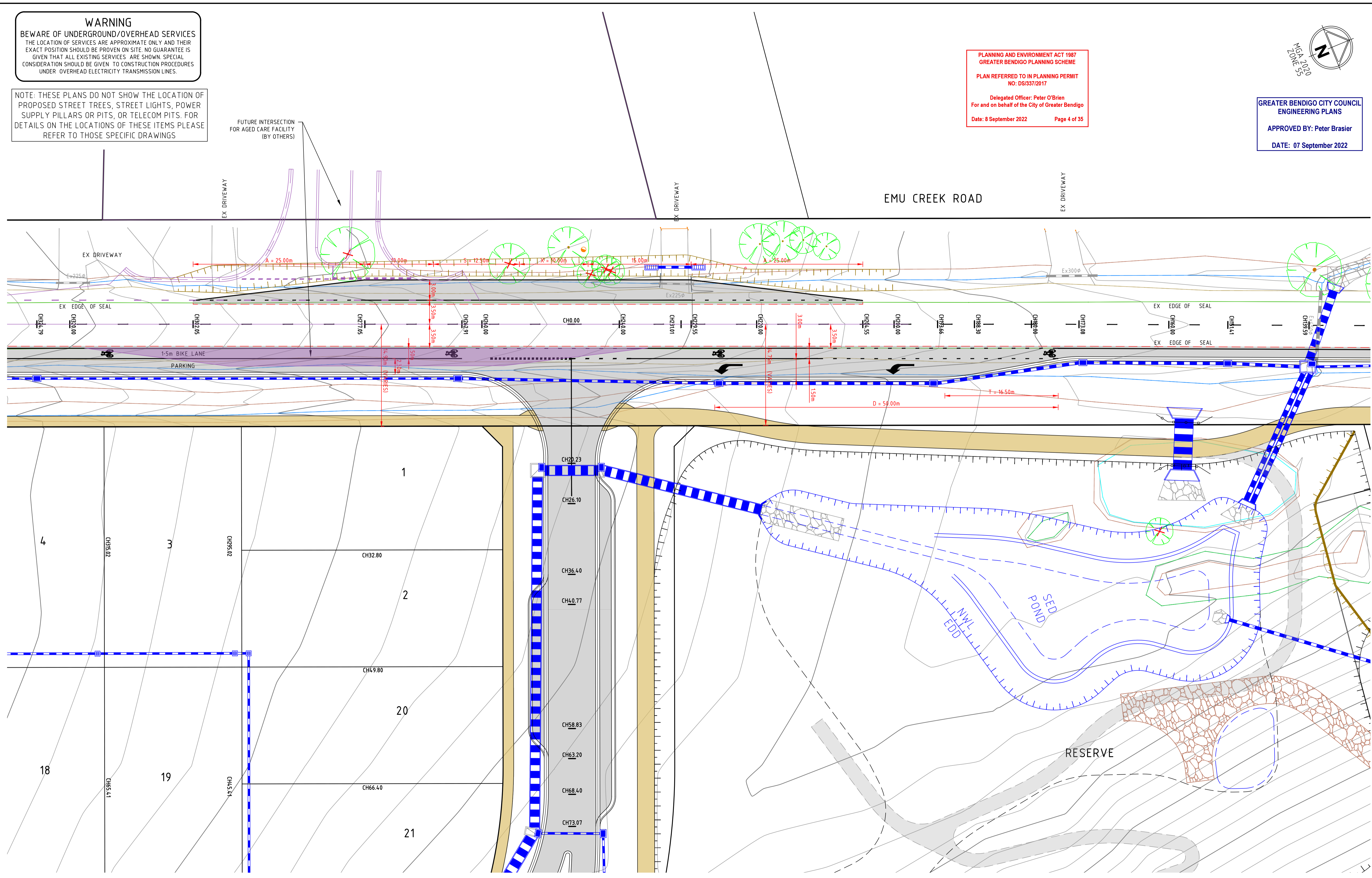
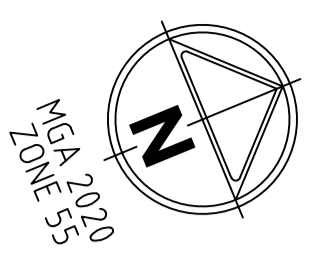
EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD & DRAINAGE LAYOUT PLAN
SHEET 2 OF 2
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD
PRELIMINARY Drg No 308978CR201 Rev D

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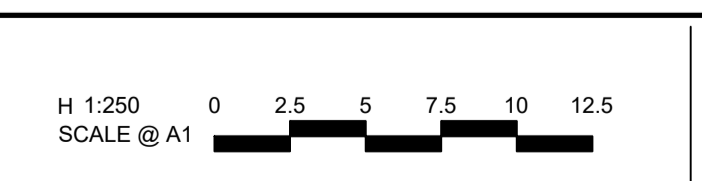
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 GREATER BENDIGO PLANNING SCHEME
 PLAN REFERRED TO IN PLANNING PERMIT
 NO: DS/337/2017
 Delegated Officer: Peter O'Brien
 For and on behalf of the City of Greater Bendigo
 Date: 8 September 2022 Page 4 of 35

GREATER BENDIGO CITY COUNCIL
 ENGINEERING PLANS
 APPROVED BY: Peter Brasier
 DATE: 07 September 2022



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Rev	Description	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22



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EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
 ROAD & DRAINAGE LAYOUT PLAN
 INTERSECTION DIMENSIONS
 CITY OF GREATER BENDIGO (PP - DS/337/2017)
 EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No: 308978CR202 Rev: D

LEGEND

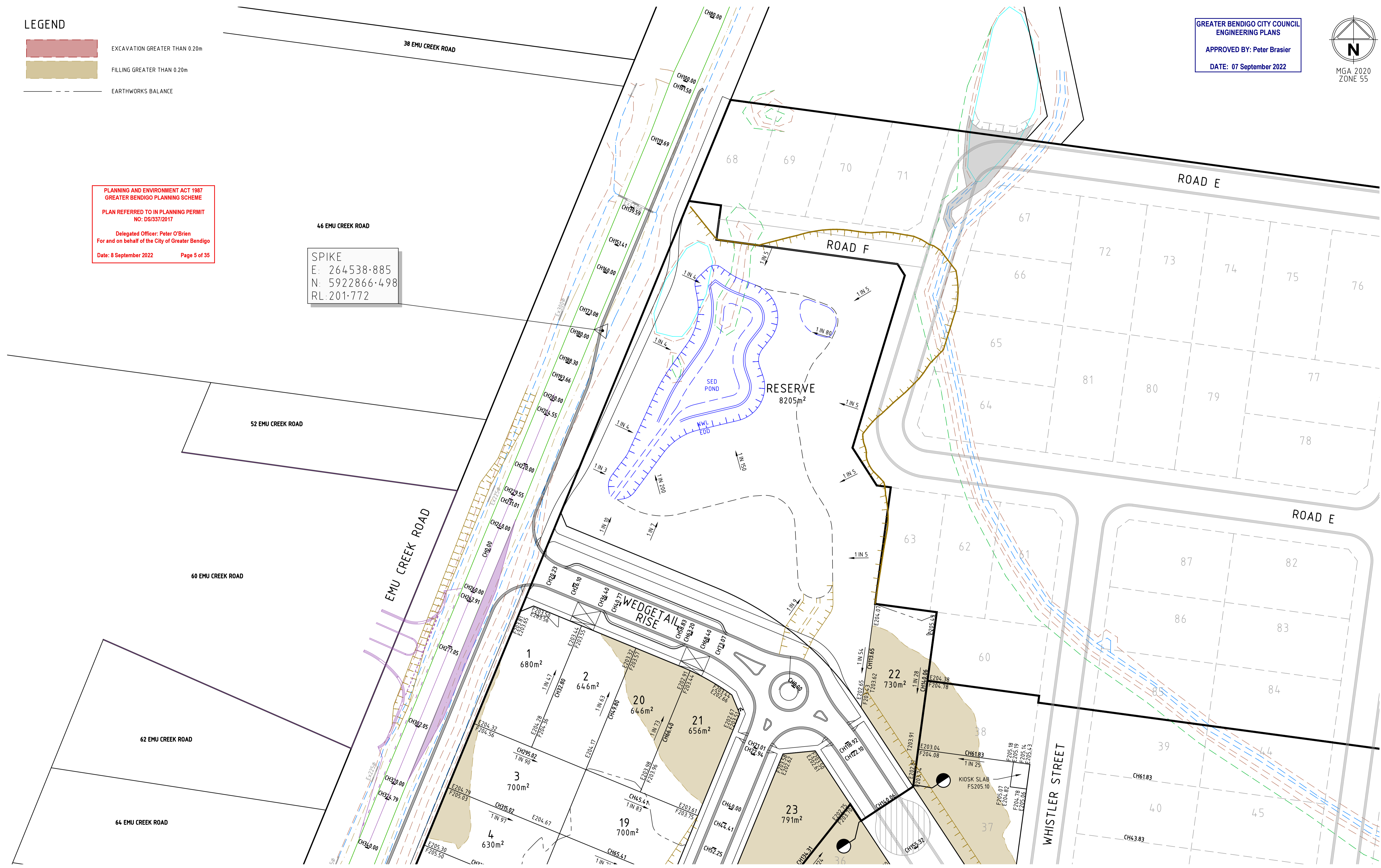
- EXCAVATION GREATER THAN 0.20m
- FILLING GREATER THAN 0.20m
- EARTHWORKS BALANCE

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
 APPROVED BY: Peter Brasier
 DATE: 07 September 2022



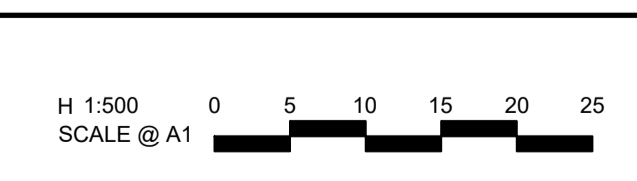
PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017
 Delegated Officer: Peter O'Brien
 For and on behalf of the City of Greater Bendigo
 Date: 8 September 2022 Page 5 of 35

46 EMU CREEK ROAD
SPIKE
 E: 264538.885
 N: 5922866.498
 RL: 201.772



file name: 308978CR203.dwg; location: c:\pwworkspace\308978\308978.dwg; plot date: 07/09/2022 2:08 PM; Sheet 5 of 35 Sheets

Rev	Amendments	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22



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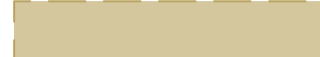
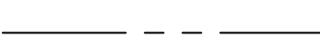
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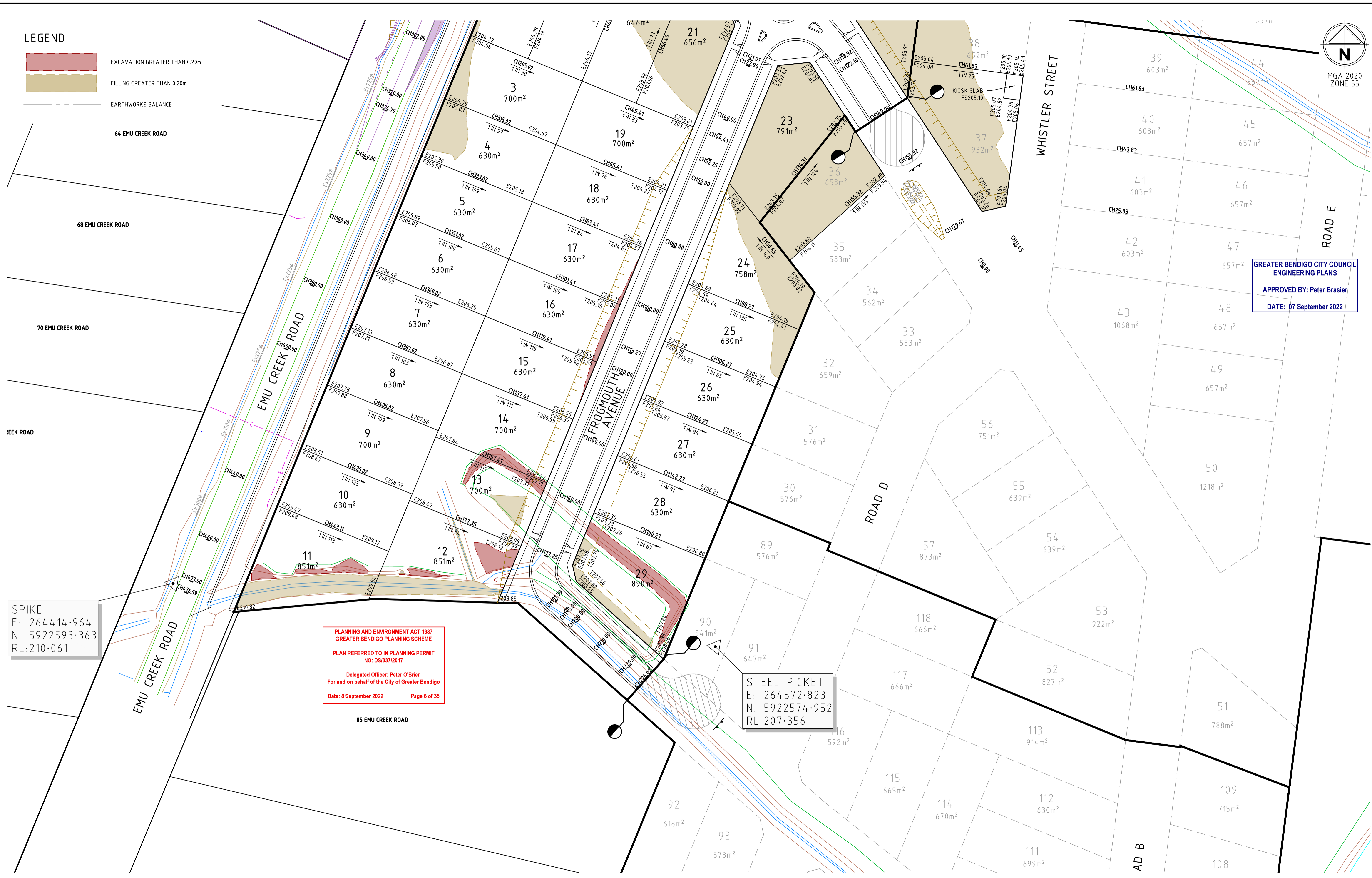
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EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
EARTHWORKS PLAN
SHEET 1 OF 2
 CITY OF GREATER BENDIGO (PP - DS/337/2017)
 EMU CREEK CONSTRUCTIONS PTY LTD

Drg No
PRELIMINARY 308978CR203 Rev
D

LEGEND

-  EXCAVATION GREATER THAN 0.20m
-  FILLING GREATER THAN 0.20m
-  EARTHWORKS BALANCE



SPIKE
E: 264414.964
N: 5922593.363
RL 210.061

PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017

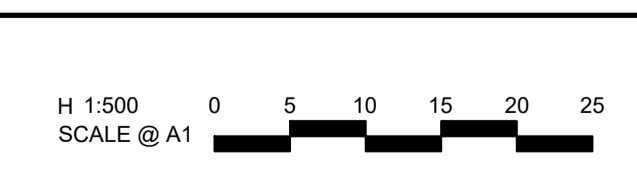
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 6 of 35

STEEL PICKET
E: 264572.823
N: 5922574.952
RL: 207.356

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 07 September 2022

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Rev	Description	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22
	Amendments	Approved	Date




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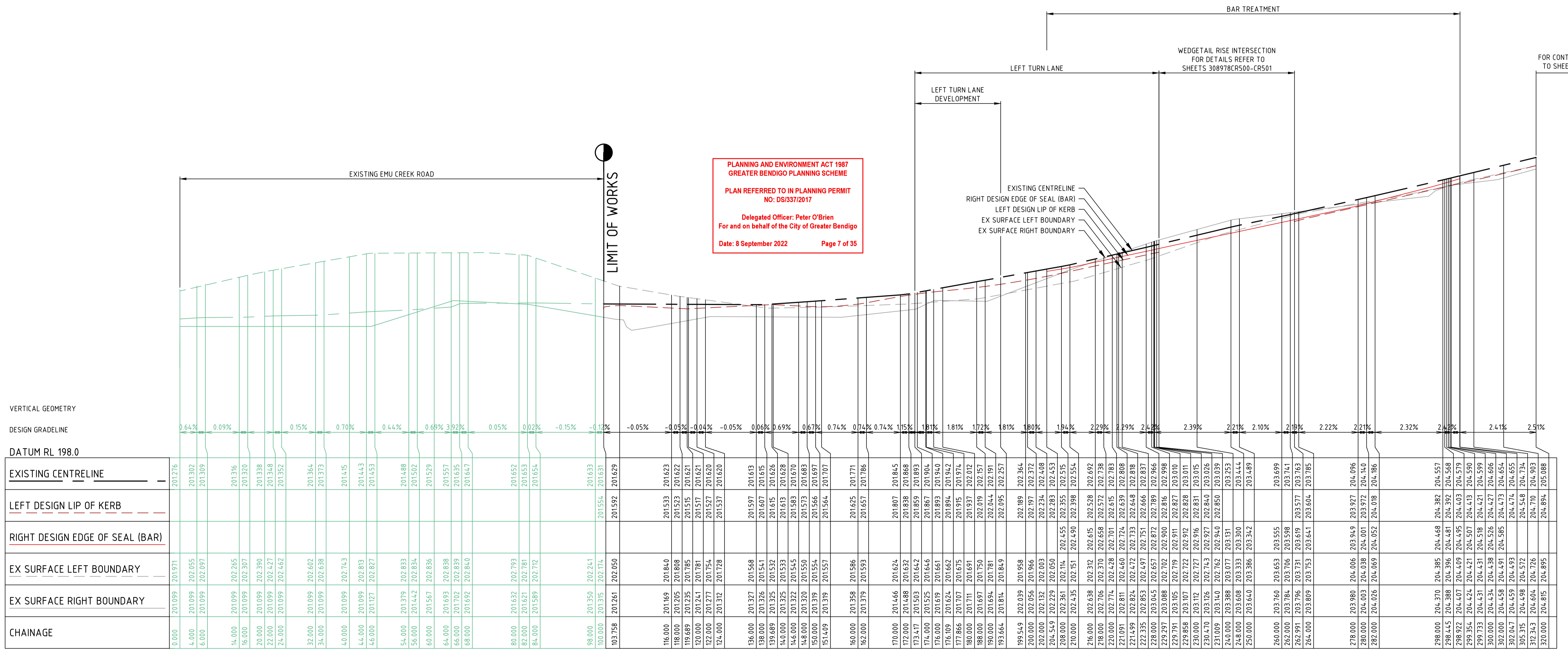


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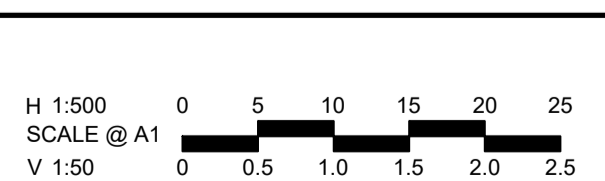
EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
EARTHWORKS PLAN
SHEET 2 OF 2
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD
PRELIMINARY Drg No: 308978CR204 Rev: D

file name: 308978CR300_4.dwg, location: c:\projects\emc\CR300, sheet: 7 of 35 sheets, date: 07/09/2022 2:09 PM, sheet: 7 of 35 sheets, file location: \\spire.com.au\beendigo\303\308978\EMC\40.dwg



EMU CREEK ROAD

Rev	Description	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22



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EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD LONGITUDINAL SECTIONS
EMU CREEK ROAD - SHEET 1 OF 2
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No **308978CR300** Rev **D**

FOR CONTINUATION REFER
TO SHEET 308978CR300

EXISTING CENTRELINE
LEFT DESIGN LIP OF KERB
EX SURFACE LEFT BOUNDARY
EX SURFACE RIGHT BOUNDARY

LIMIT OF WORKS

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 202.5

CHAINAGE	EXISTING CENTRELINE	LEFT DESIGN LIP OF KERB	RIGHT DESIGN EDGE OF SEAL (BAR)	EX SURFACE LEFT BOUNDARY	EX SURFACE RIGHT BOUNDARY
315.000	204.772	204.785		204.677	204.785
320.000	204.894	204.895		204.815	204.895
322.000	204.869	204.869		204.869	204.869
340.000	205.364	205.531		205.364	205.531
342.000	205.419	205.598		205.419	205.598
344.000	205.473	205.664		205.473	205.664
346.000	205.528	205.727		205.528	205.727
360.000	206.006	206.237		205.910	206.170
362.000	206.068	206.298		205.991	206.233
363.500	206.054	206.285		206.054	206.285
364.000	206.072	206.301		206.072	206.301
376.639	206.590	206.750		206.590	206.750
380.000	206.637	206.871		206.637	206.871
382.000	206.708	206.943		206.708	206.943
400.000	207.370	207.591		207.370	207.591
402.000	207.467	207.662		207.467	207.662
404.000	207.542	207.741		207.542	207.741
406.000	207.611	207.822		207.611	207.822
420.000	208.232	208.398		208.232	208.398
424.000	208.414	208.563		208.414	208.563
426.000	208.504	208.646		208.504	208.646
428.000	208.694	208.824		208.694	208.824
430.000	208.704	208.852		208.704	208.852
432.000	208.797	208.927		208.797	208.927
433.000	208.841	208.975		208.841	208.975
440.000	209.140	209.319		209.140	209.319
442.000	209.225	209.416		209.225	209.416
444.000	209.326	209.510		209.326	209.510
446.000	209.440	209.598		209.440	209.598
447.487	209.525	209.662		209.525	209.662
448.430	209.579	209.703		209.579	209.703
450.446	209.744	209.964		209.744	209.964
460.000	209.811	210.205		209.811	210.205
461.350	209.824	210.248		209.824	210.248
462.000	209.825	210.302		209.825	210.302
474.000	209.850	209.792		209.850	209.792
475.140	209.852	210.439		209.852	210.439
476.000	209.854	210.730		209.854	210.730
478.361	209.831	210.862		209.831	210.862
480.000	209.808	210.903		209.808	210.903
484.123	209.877	210.973		209.877	210.973
484.566	209.887	210.982		209.887	210.982
488.000	209.917	211.048		209.917	211.048
488.445	209.919	211.056		209.919	211.056
488.650	209.920	211.060		209.920	211.060
490.000	209.927	211.086		209.927	211.086
490.370	209.929	211.094		209.929	211.094
493.349	209.869	211.112		209.869	211.112
492.000	209.388	211.125		209.388	211.125
500.000	209.776	211.205		209.776	211.205
501.709	209.833	211.196		209.833	211.196

EMU CREEK ROAD

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PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 8 of 35

Rev	Amendments	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22

H 1:500
SCALE @ A1
V 1:50

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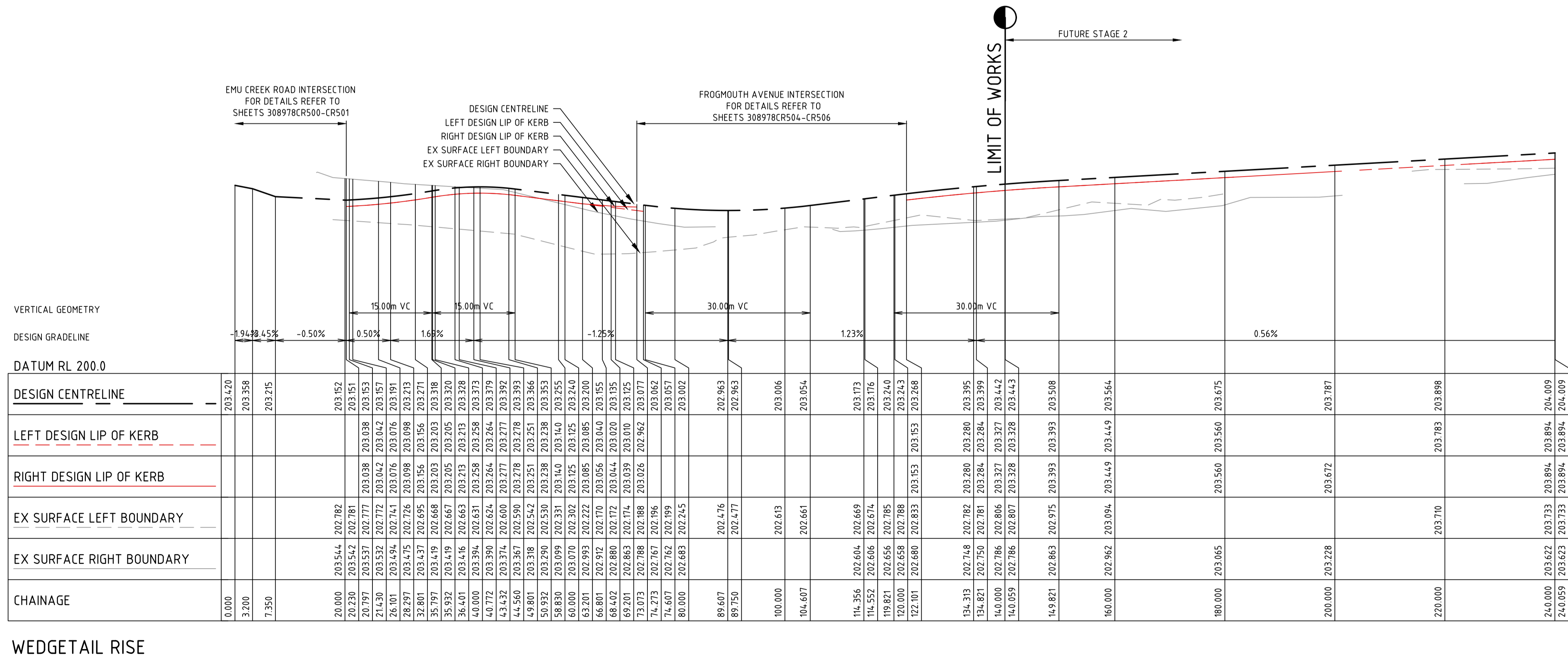
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Designed M.RULE	Checked B.IBBS
Authorised C.CLARKE	Date SEPTEMBER 2022

EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD LONGITUDINAL SECTIONS
EMU CREEK ROAD - SHEET 2 OF 2
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD

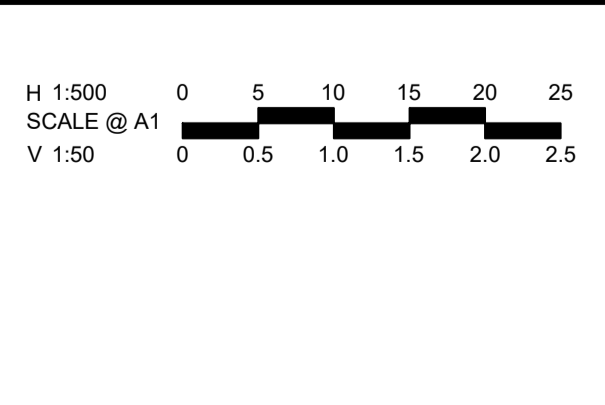
PRELIMINARY Drg No 308978CR301 Rev D

PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 9 of 35



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Rev	Description	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22
Rev	Amendments	Approved	Date



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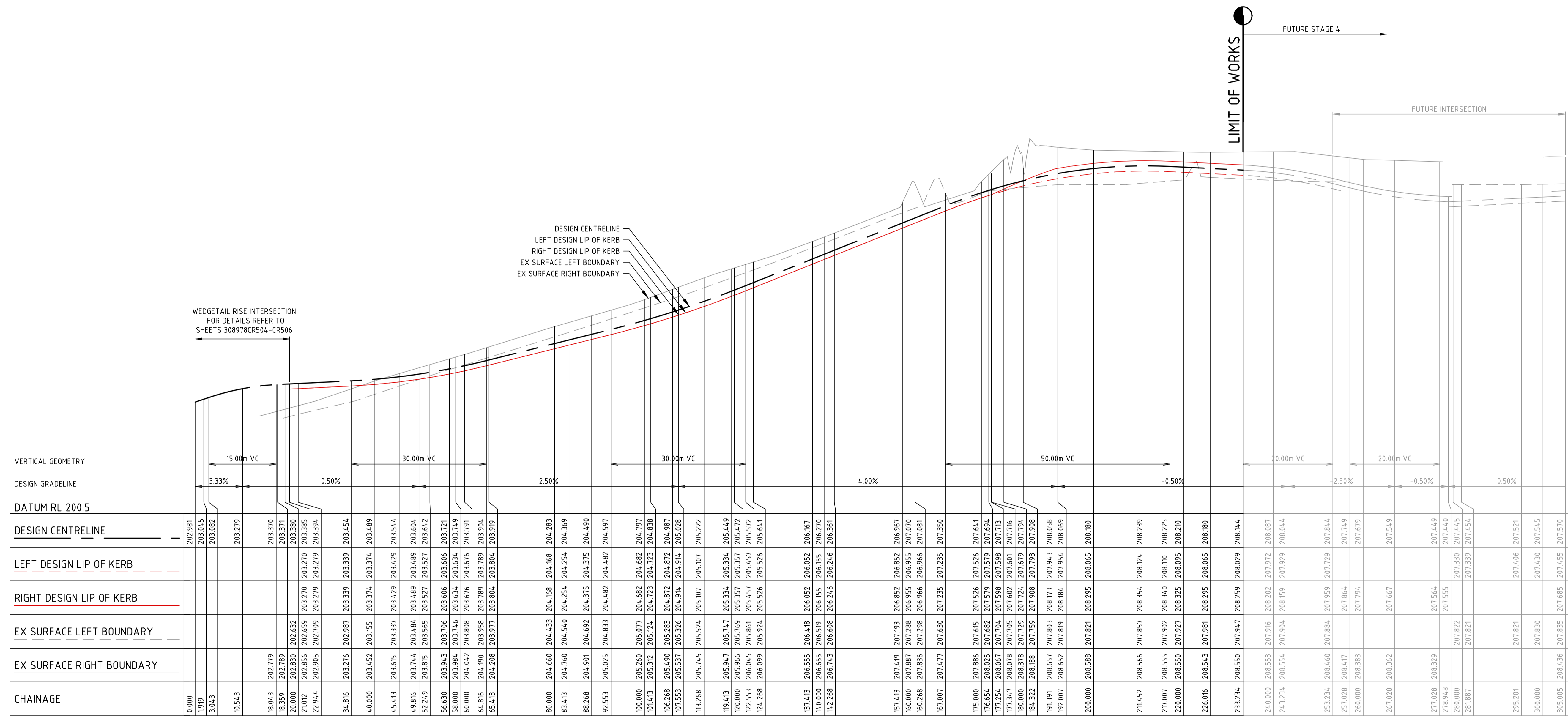
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EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD LONGITUDINAL SECTIONS
WEDGETAIL RISE
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No **308978CR302** Rev **D**

PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 10 of 35

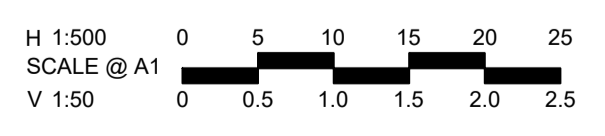


FROGMOUTH AVENUE

VERTICAL GEOMETRY	DESIGN GRADELINE	DATUM RL 200.5
DESIGN CENTRELINE	LEFT DESIGN LIP OF KERB	RIGHT DESIGN LIP OF KERB
EX SURFACE LEFT BOUNDARY	EX SURFACE RIGHT BOUNDARY	CHAINAGE

file name: 308978CR300_4.dwg; location: c:\projects\308978\308978.dwg; plot date: 07/09/2022 2:09 PM; Sheet 10 of 35 Sheets

Rev	Amendments	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22



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

Designed
M.RULE
Authorised
C.CLARKE

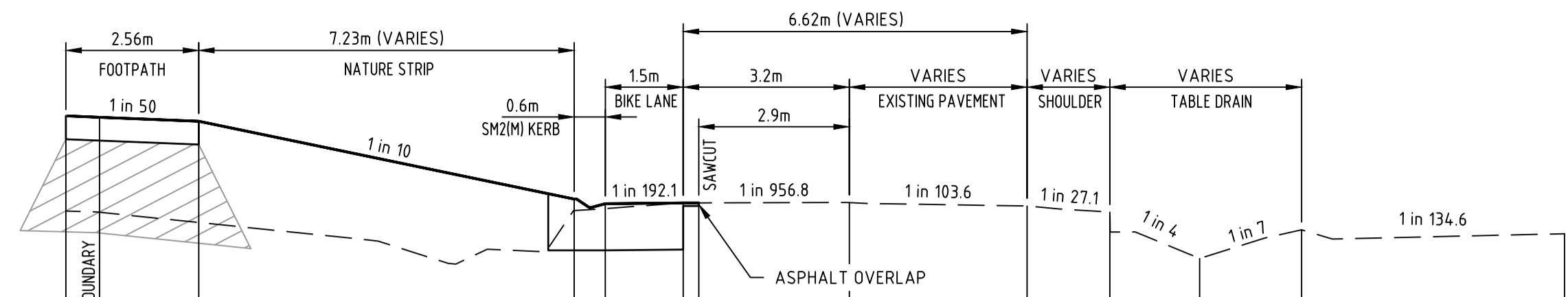
Checked
B.IBBS
Date
SEPTEMBER 2022

EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
FROGMOUTH AVENUE
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No **308978CR303** Rev **D**



SELECT FILL MATERIAL
(WHERE >200mm FILLING)

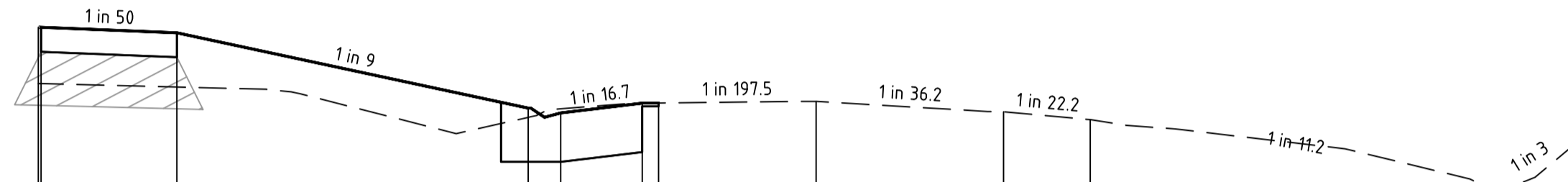


DATUM R.L.200.0

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EXISTING SURFACE LEVEL	201.544	201.532	201.434	201.568	201.568	201.618	201.623	201.626	201.593	201.534	201.087	201.363	201.325	201.325	201.325
OFFSET	-15.089	-14.441	-12.531	-5.300	-4.700	-3.200	-2.900	0.000	3.422	5.017	6.716	8.710	13.774	13.774	13.774

EMU CREEK ROAD

CH 139.59

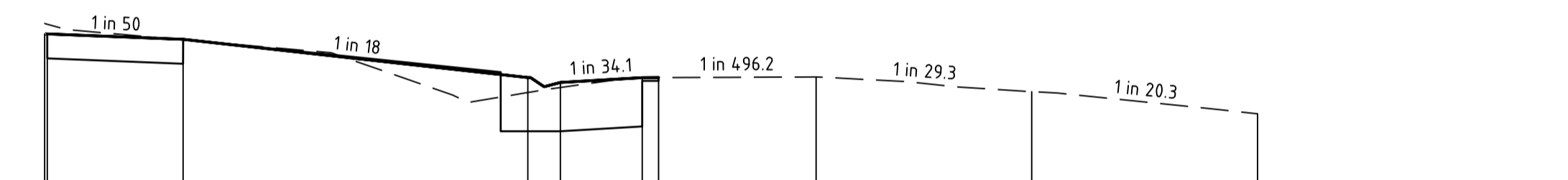


DATUM R.L.200.0

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DESIGN SURFACE LEVEL	202.303	202.302	202.252	201.560	201.515	201.605	201.607	201.621	201.526	201.454	200.786	200.786	201.235	201.235	201.235
EXISTING SURFACE LEVEL	201.785	201.785	201.753	201.474	201.515	201.605	201.607	201.621	201.526	201.454	200.786	200.786	201.235	201.235	201.235
OFFSET	-14.316	-14.266	-11.766	-5.300	-4.700	-3.200	-2.900	0.000	3.451	5.046	12.543	12.543	13.984	13.984	13.984

EMU CREEK ROAD

CH 119.69

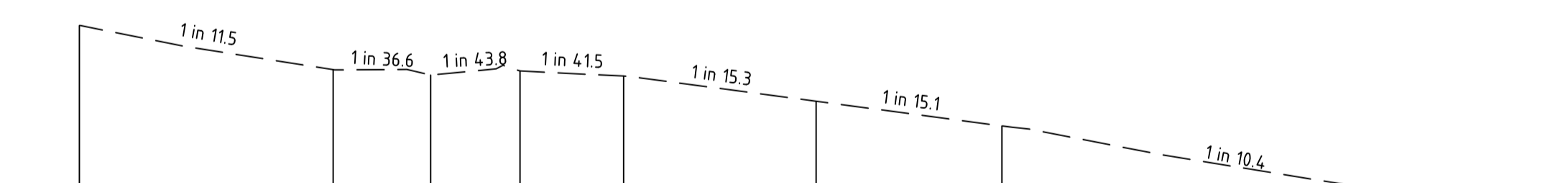


DATUM R.L.200.0

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DESIGN SURFACE LEVEL	202.028	202.027	201.977	201.624	201.579	201.624	201.624	201.630	201.494	201.494	201.290	201.290	201.290	201.290	201.290
EXISTING SURFACE LEVEL	202.123	202.116	201.973	201.486	201.533	201.624	201.624	201.630	201.494	201.494	201.290	201.290	201.290	201.290	201.290
OFFSET	-14.201	-14.151	-11.651	-5.306	-4.706	-3.200	-2.900	0.000	3.968	3.968	8.126	8.126	8.126	8.126	8.126

EMU CREEK ROAD

CH 101.50



DATUM R.L.199.0

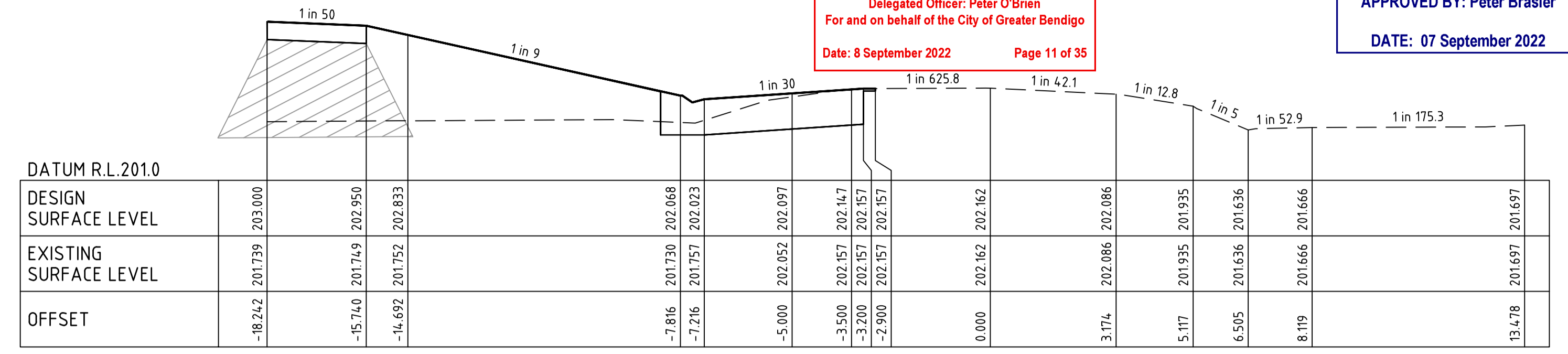
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DESIGN SURFACE LEVEL	201.971	201.971	201.566	201.517	201.554	201.508	201.276	201.049	201.049	201.049	200.231	200.231	200.231	200.231	200.231
EXISTING SURFACE LEVEL	201.971	201.971	201.566	201.517	201.554	201.508	201.276	201.049	201.049	201.049	200.231	200.231	200.231	200.231	200.231
OFFSET	-13.561	-13.561	-8.889	-7.094	-5.449	-3.542	0.000	3.422	3.422	3.422	11.934	11.934	11.934	11.934	11.934

EMU CREEK ROAD

CH 0.00

PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 11 of 35

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 07 September 2022

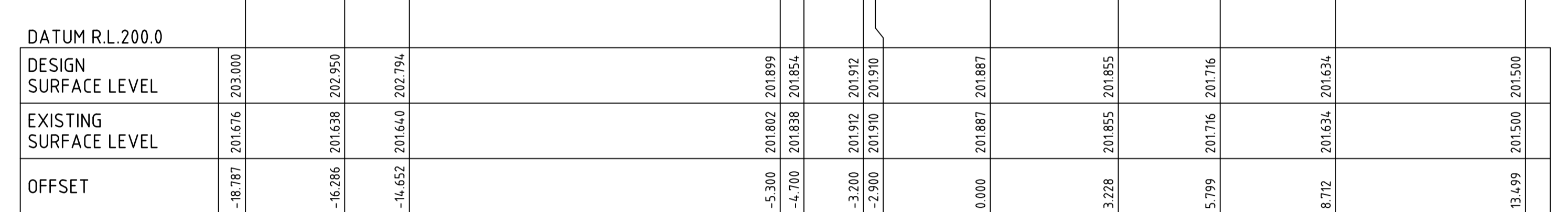


DATUM R.L.201.0

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DESIGN SURFACE LEVEL	203.000	202.950	202.833	202.068	202.023	202.097	202.147	202.157	202.157	202.162	202.086	202.086	201.935	201.636	201.697
EXISTING SURFACE LEVEL	201.739	201.749	201.752	201.730	201.757	202.052	202.157	202.157	202.157	202.162	202.086	202.086	201.935	201.636	201.697
OFFSET	-18.242	-15.710	-14.692	-7.816	-7.216	-5.000	-3.500	-3.200	-2.900	0.000	3.174	3.174	5.117	6.505	13.478

EMU CREEK ROAD

CH 188.30

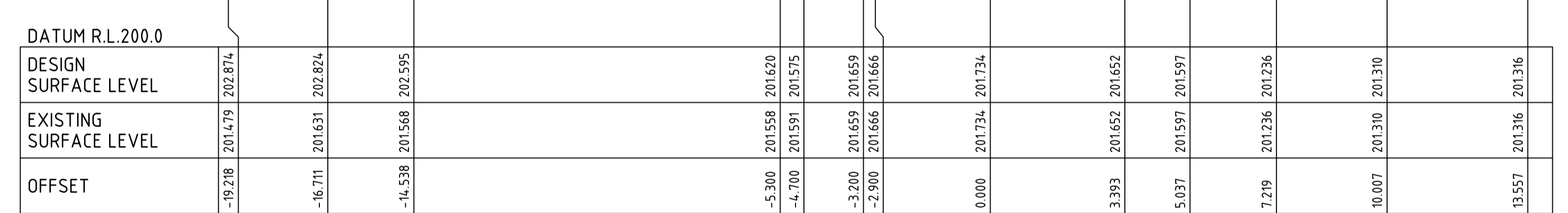


DATUM R.L.200.0

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DESIGN SURFACE LEVEL	203.000	202.950	202.794	201.899	201.854	201.912	201.910	201.887	201.887	201.855	201.716	201.634	201.500	201.500	201.500
EXISTING SURFACE LEVEL	201.676	201.638	201.640	201.802	201.838	201.912	201.910	201.887	201.887	201.855	201.716	201.634	201.500	201.500	201.500
OFFSET	-18.787	-16.286	-14.652	-5.300	-4.700	-3.200	-2.900	0.000	0.000	3.228	5.799	8.712	13.499	13.499	13.499

EMU CREEK ROAD

CH 173.08

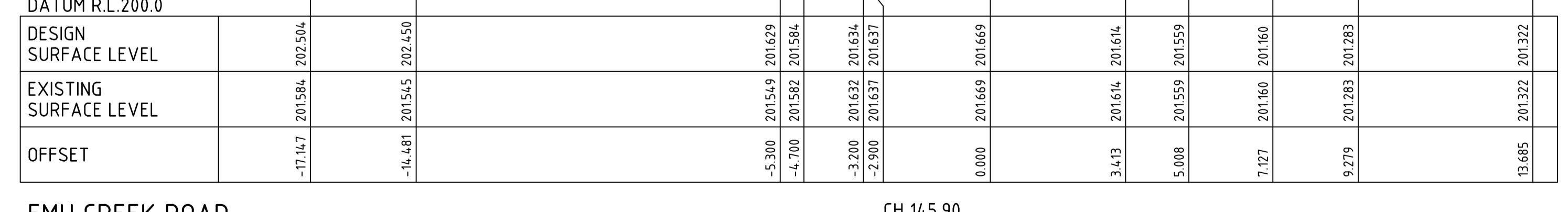


DATUM R.L.200.0

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DESIGN SURFACE LEVEL	202.874	202.824	202.595	201.620	201.575	201.666	201.734	201.652	201.652	201.597	201.236	201.310	201.316	201.316	201.316
EXISTING SURFACE LEVEL	201.479	201.631	201.575	201.558	201.575	201.666	201.734	201.652	201.652	201.597	201.236	201.310	201.316	201.316	201.316
OFFSET	-19.218	-16.711	-14.538	-5.300	-4.700	-3.200	-2.900	0.000	0.000	3.393	5.037	7.219	10.007	13.557	13.557

EMU CREEK ROAD

CH 155.00



DATUM R.L.200.0

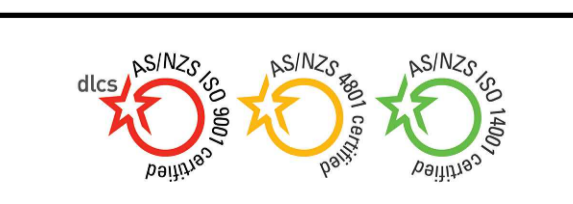
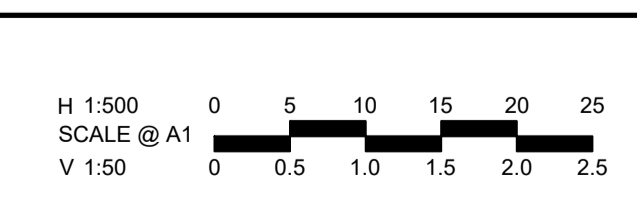
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DESIGN SURFACE LEVEL	202.504	202.504	202.450	201.629	201.584	201.637	201.669	201.614	201.614	201.559	201.160	201.283	201.322	201.322	201.322
EXISTING SURFACE LEVEL	201.584	201.584	201.584	201.584	201.584	201.637	201.669	201.614	201.614	201.559	201.160	201.283	201.322	201.322	201.322
OFFSET	-17.147	-17.147	-14.481	-5.300	-4.700	-3.200	-2.900	0.000	0.000	3.413	5.008	7.127	9.279	13.685	13.685

EMU CREEK ROAD

CH 145.90

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Rev	Amendments	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22



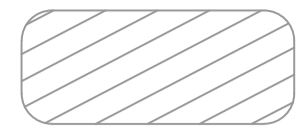
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Designed
M.RULE
Authorised
C.CLARKE
Checked
B.IBBS
Date
SEPTEMBER 2022

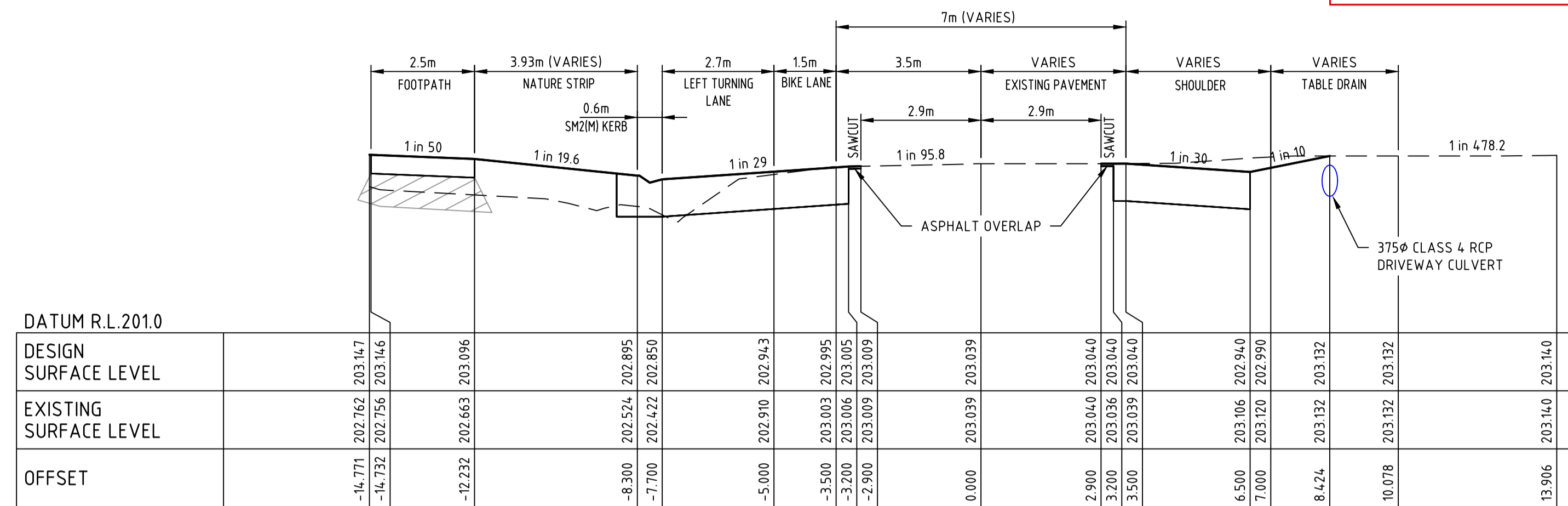
EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD CROSS SECTIONS
EMU CREEK ROAD - SHEET 1 OF 3
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD
PRELIMINARY Drg No 308978CR400 Rev D



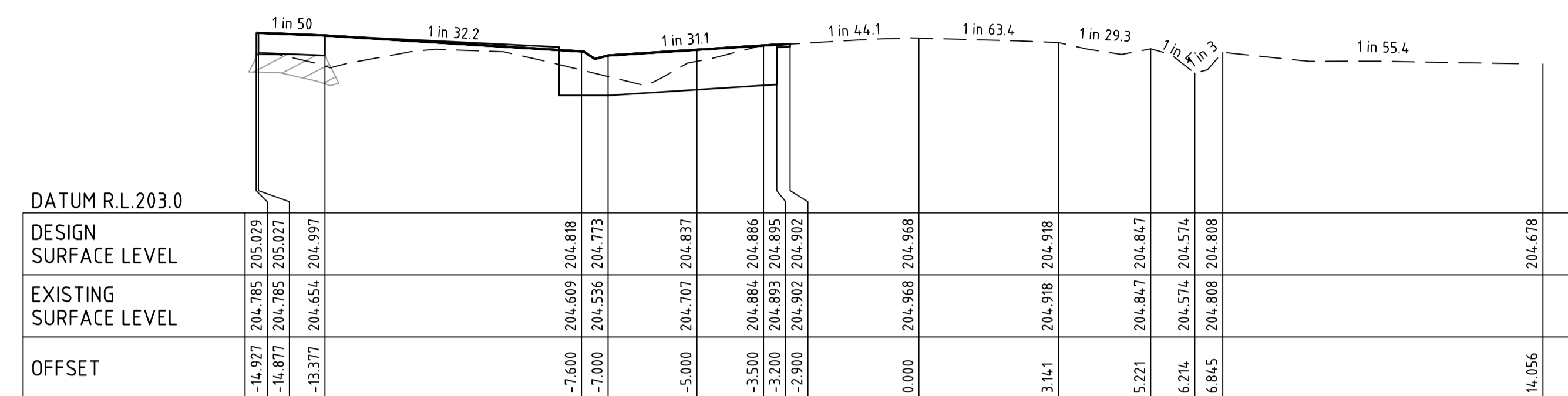
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PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 12 of 35

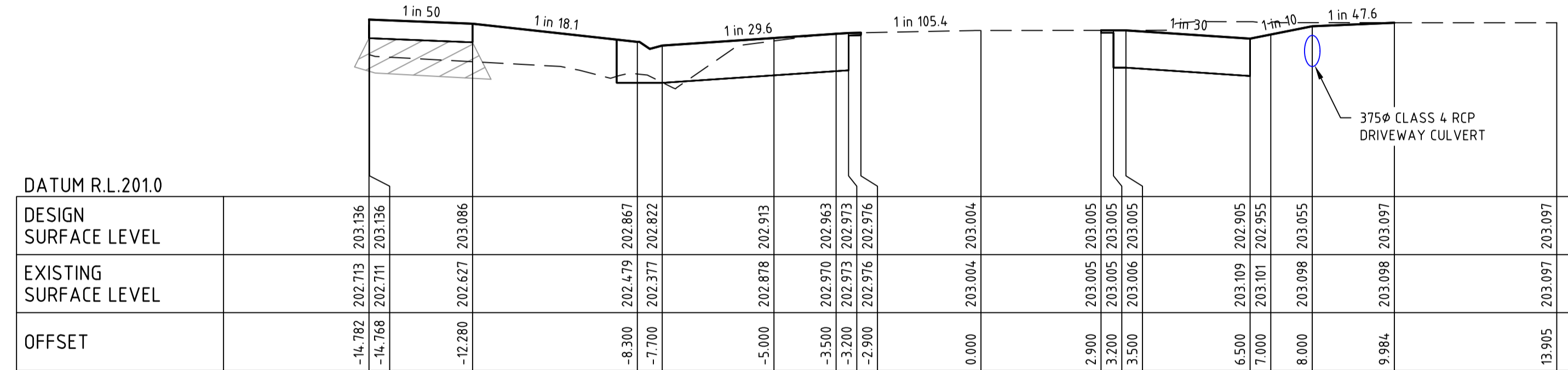
GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 07 September 2022



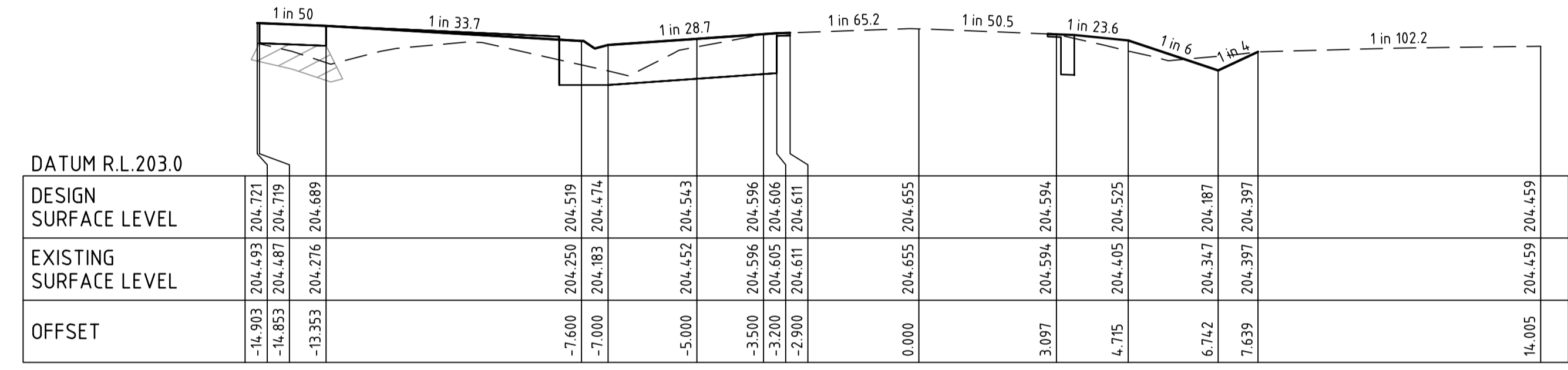
EMU CREEK ROAD CH 231.01



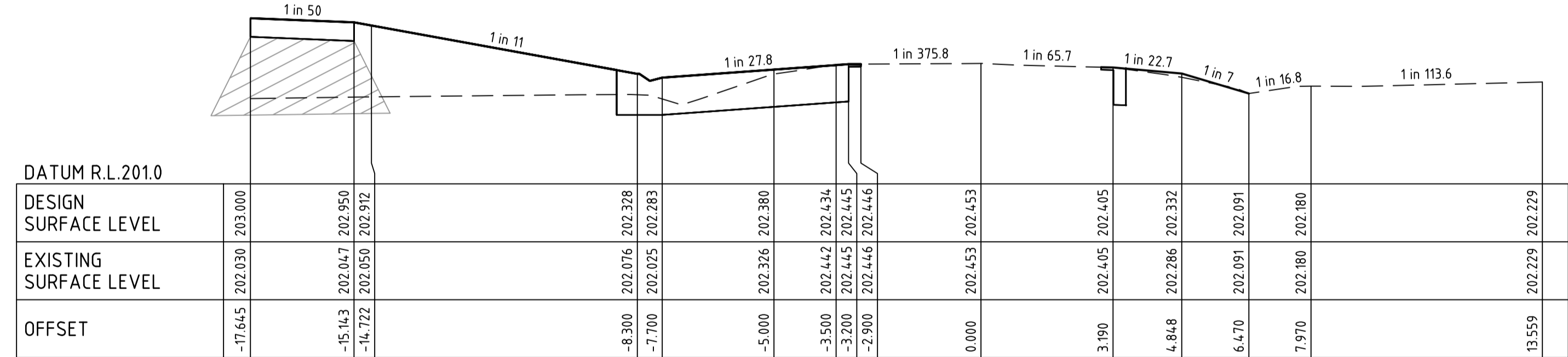
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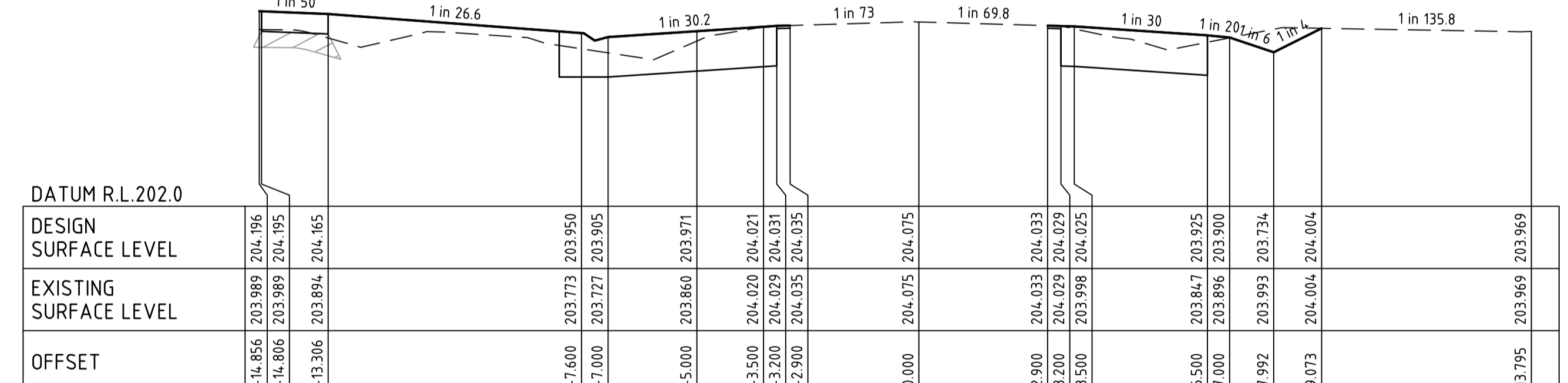
EMU CREEK ROAD CH 229.55



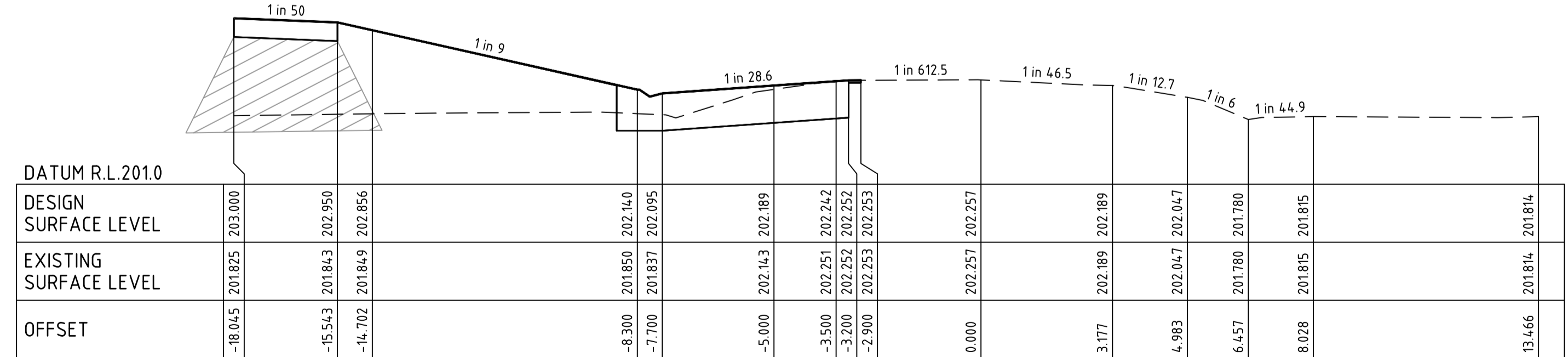
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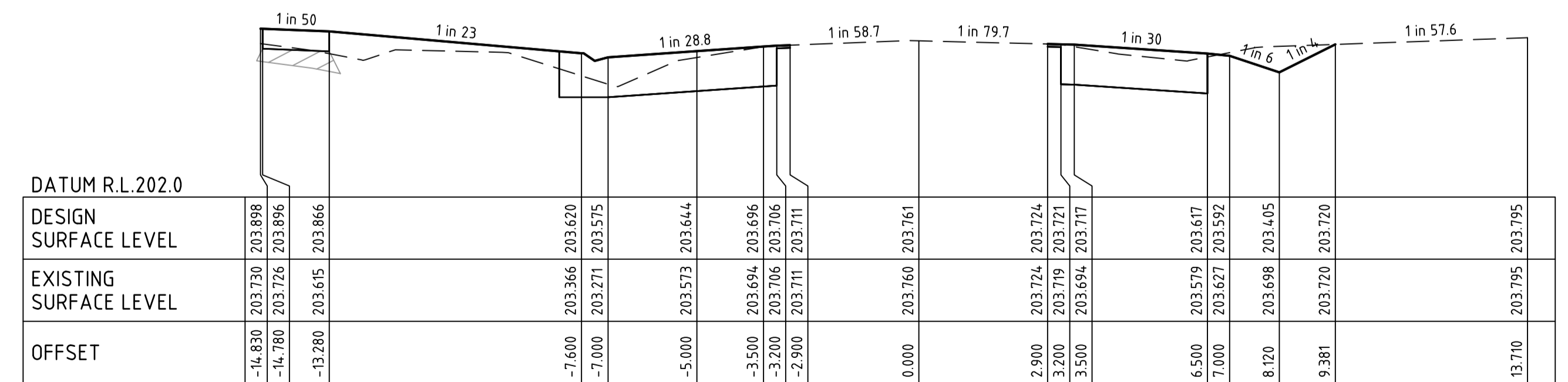
EMU CREEK ROAD CH 204.55



EMU CREEK ROAD CH 277.05



EMU CREEK ROAD CH 193.66



EMU CREEK ROAD CH 262.91

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Rev	Description	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22

H 1:500
SCALE @ A1
V 1:50

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Designed M.RULE	Checked B.IBBS
Authorised C.CLARKE	Date SEPTEMBER 2022

EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD CROSS SECTIONS
EMU CREEK ROAD - SHEET 2 OF 3
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No **308978CR401** Rev **D**



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PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME

PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017

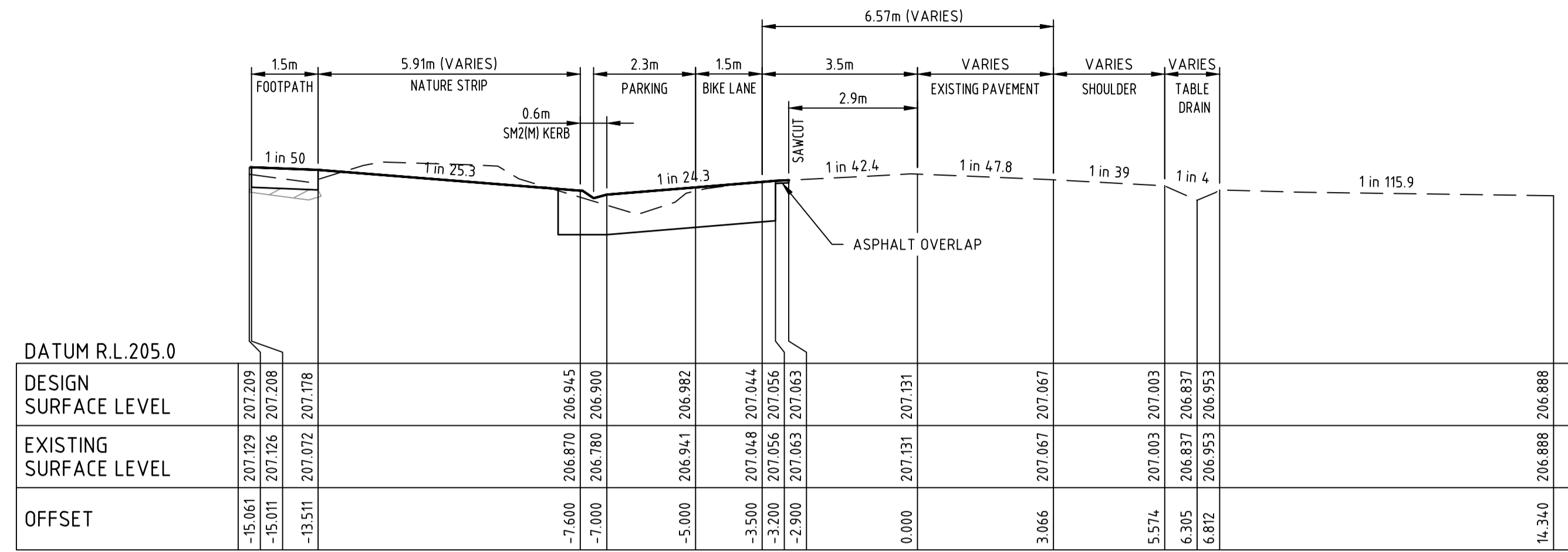
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo

Date: 8 September 2022 Page 13 of 35

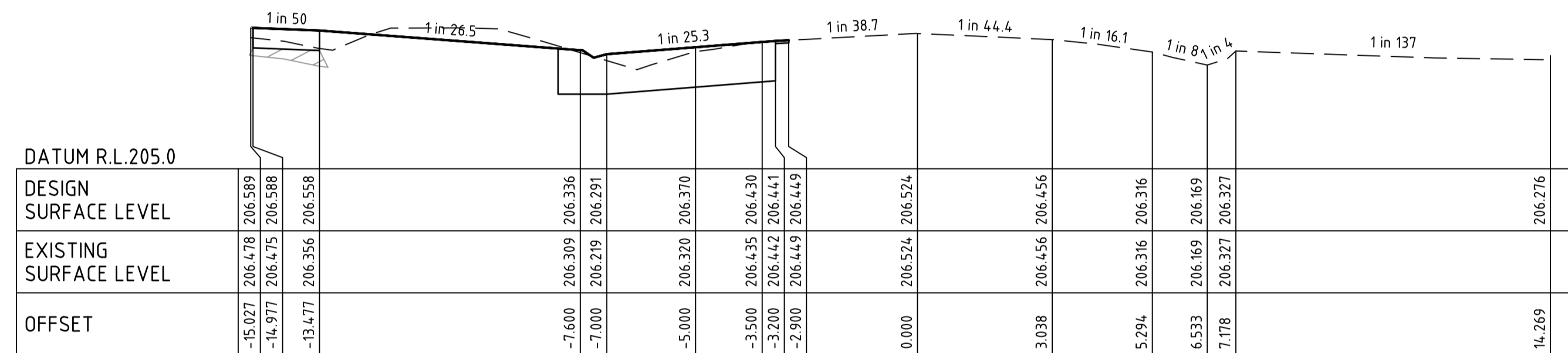
GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS

APPROVED BY: Peter Brasier

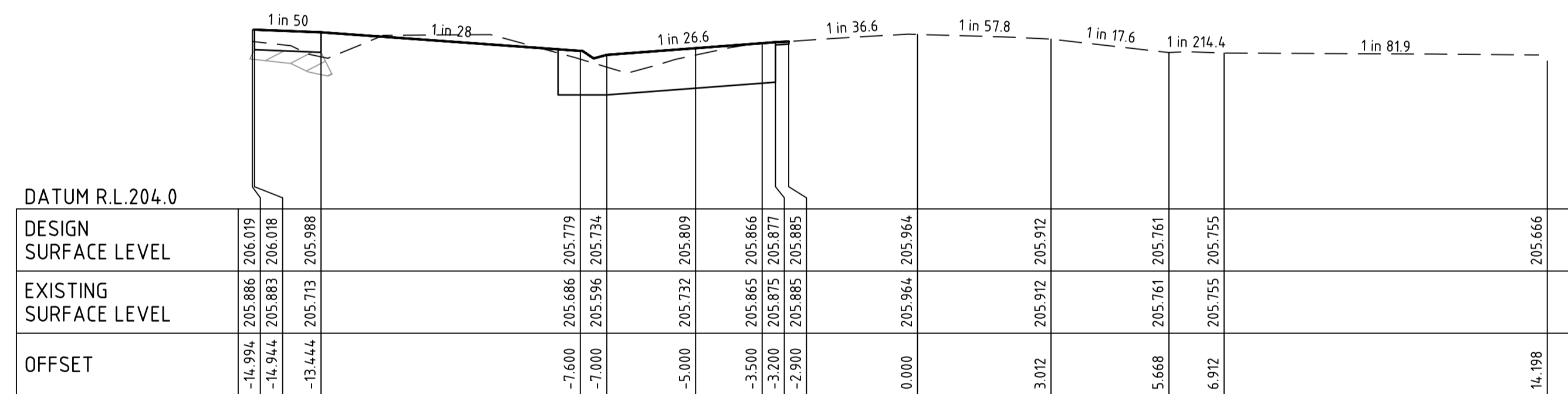
DATE: 07 September 2022



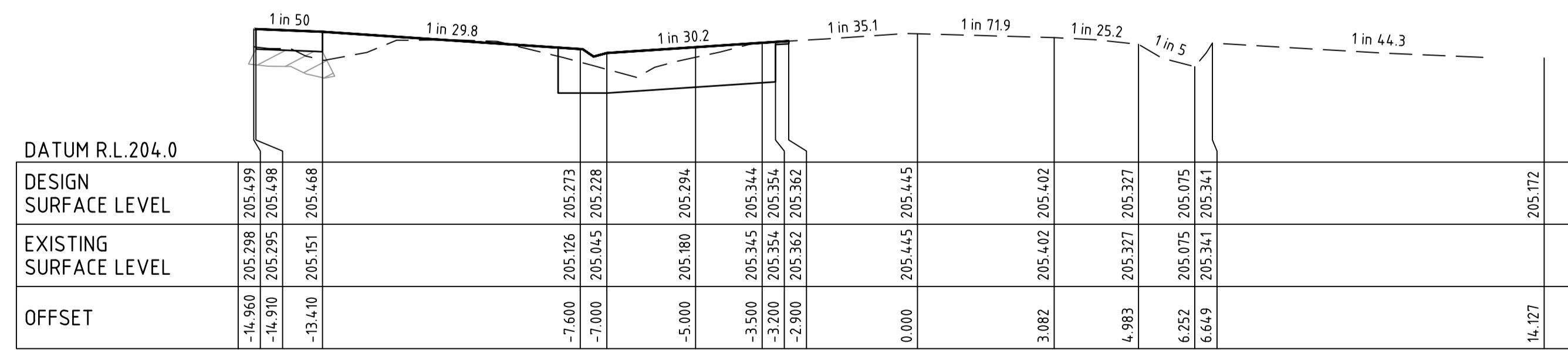
EMU CREEK ROAD CH 387.02



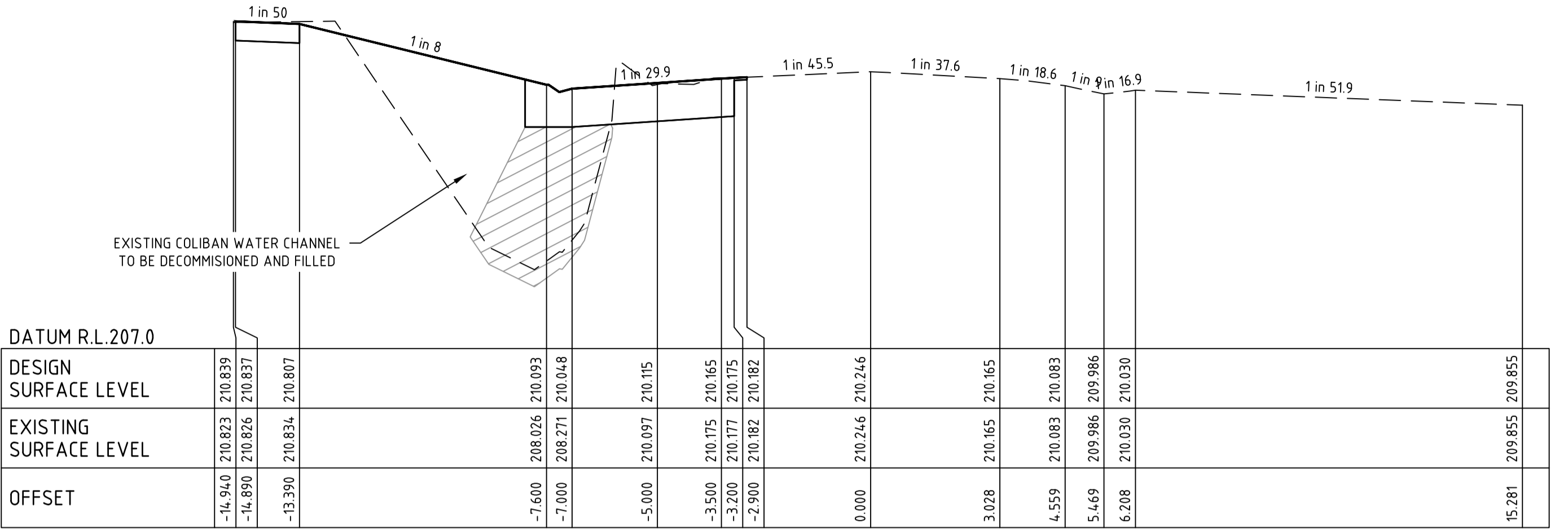
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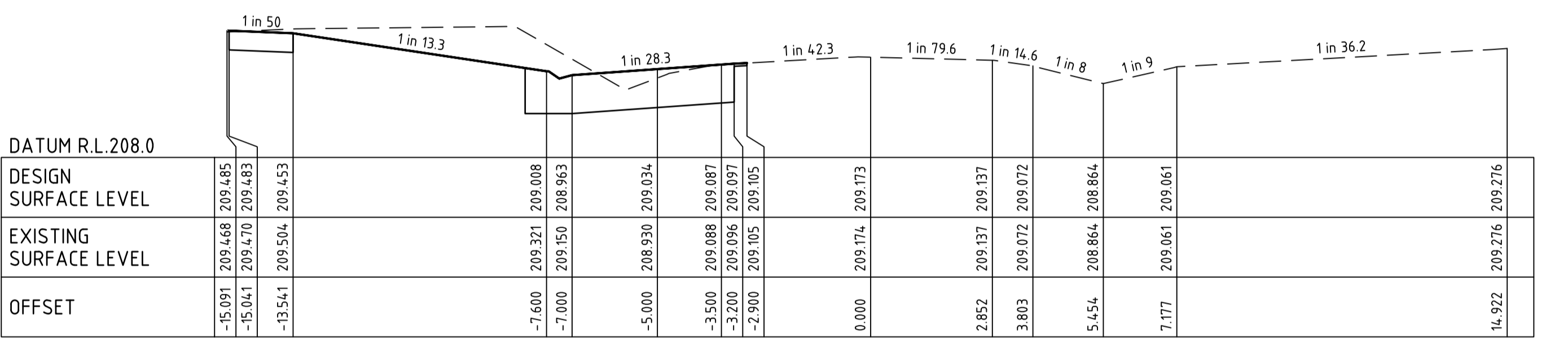
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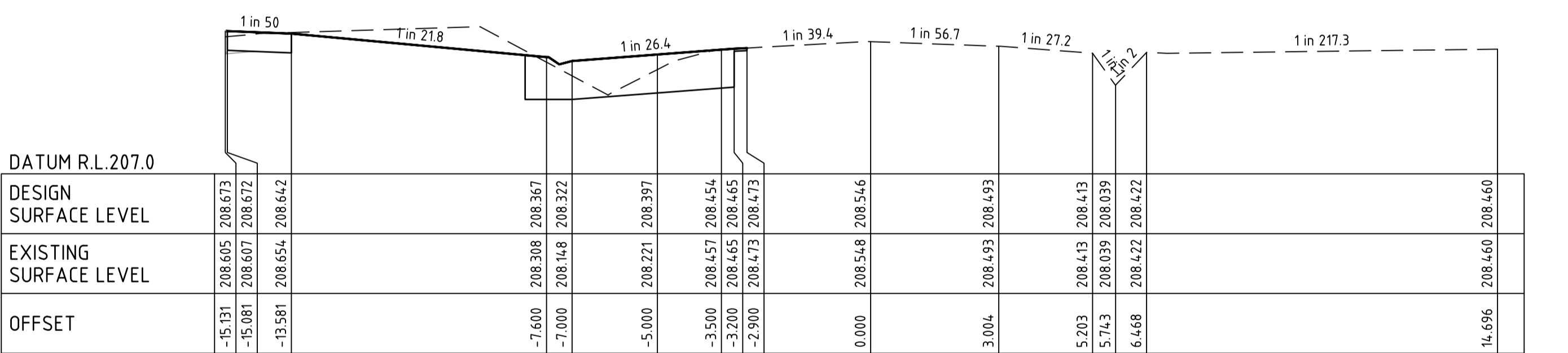
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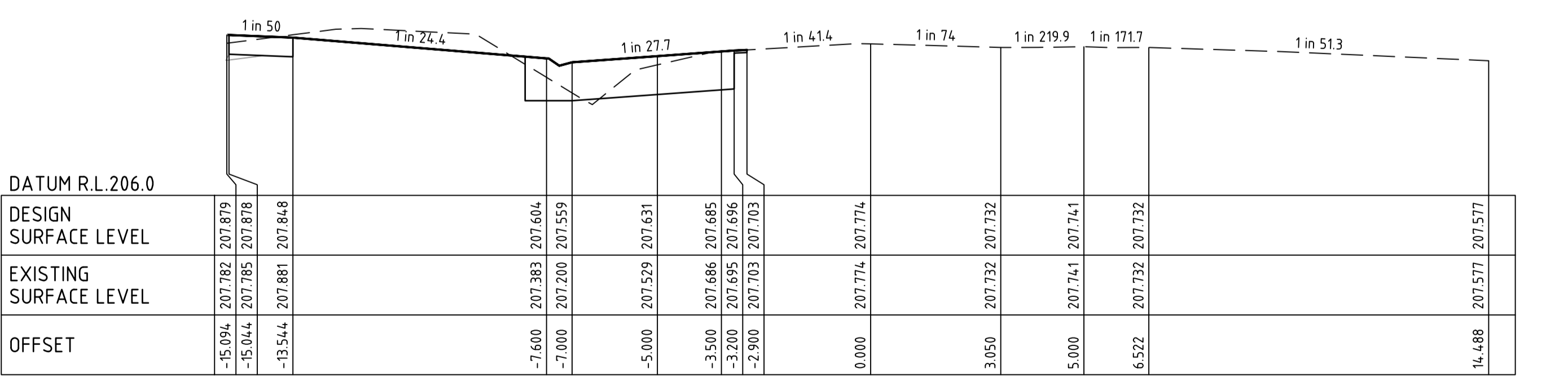
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EMU CREEK ROAD CH 443.12



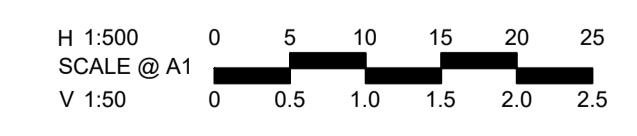
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EMU CREEK ROAD CH 405.02

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Rev	Amendments	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22



Designed	M.RULE	Checked	B.IBBS
Authorised	C.CLARKE	Date	SEPTEMBER 2022

EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD CROSS SECTIONS
EMU CREEK ROAD - SHEET 3 OF 3
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD

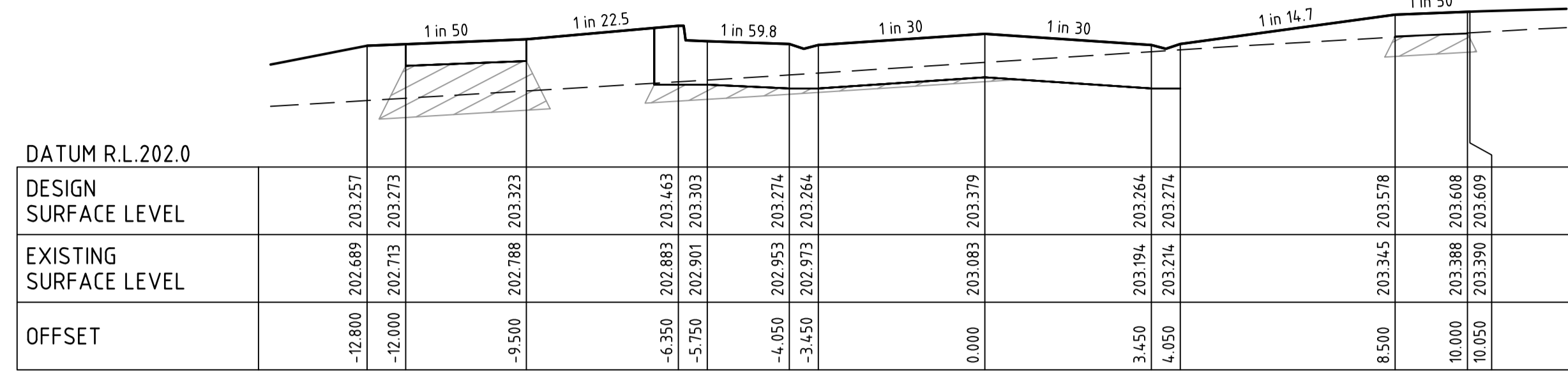
PRELIMINARY Drg No 308978CR402 Rev D



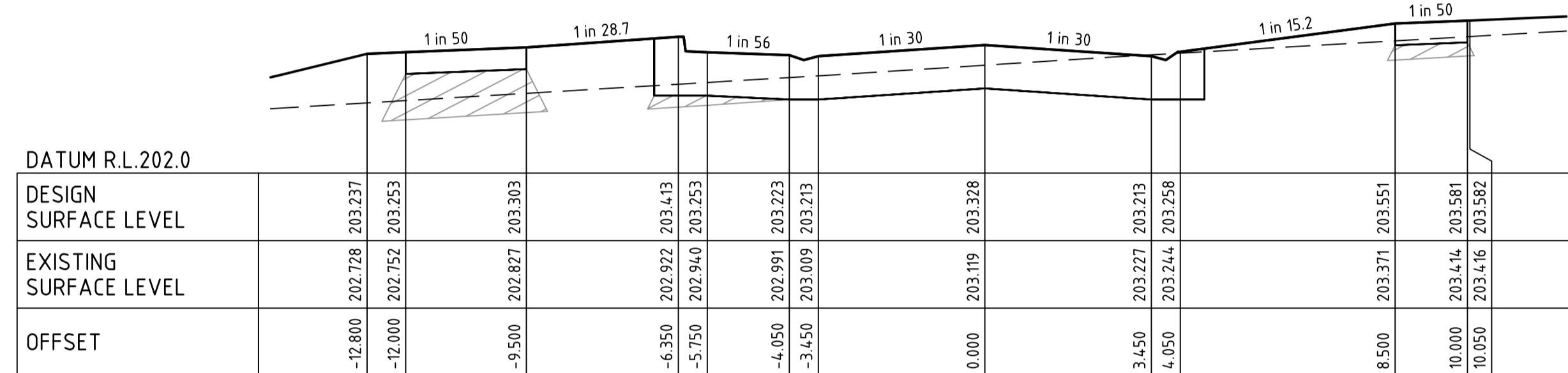
SELECT FILL MATERIAL
(WHERE >200mm FILLING)

PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 14 of 35

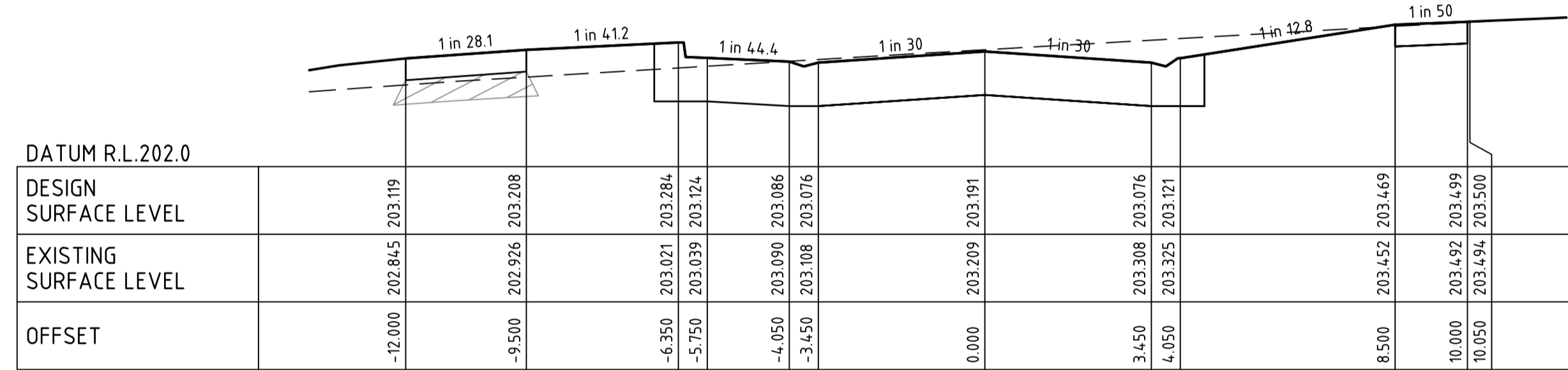
GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 07 September 2022



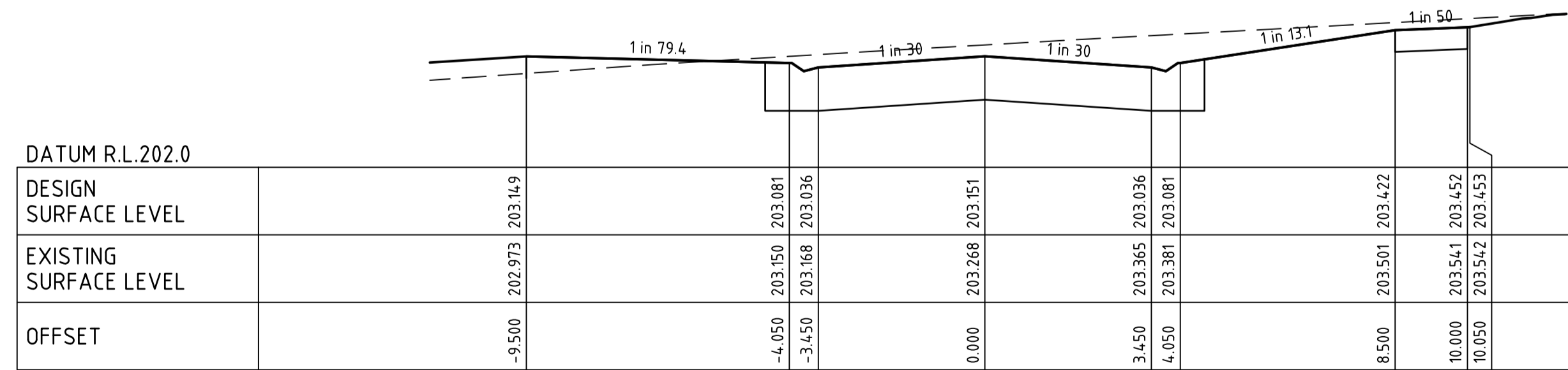
WEDGETAIL RISE CH 40.77



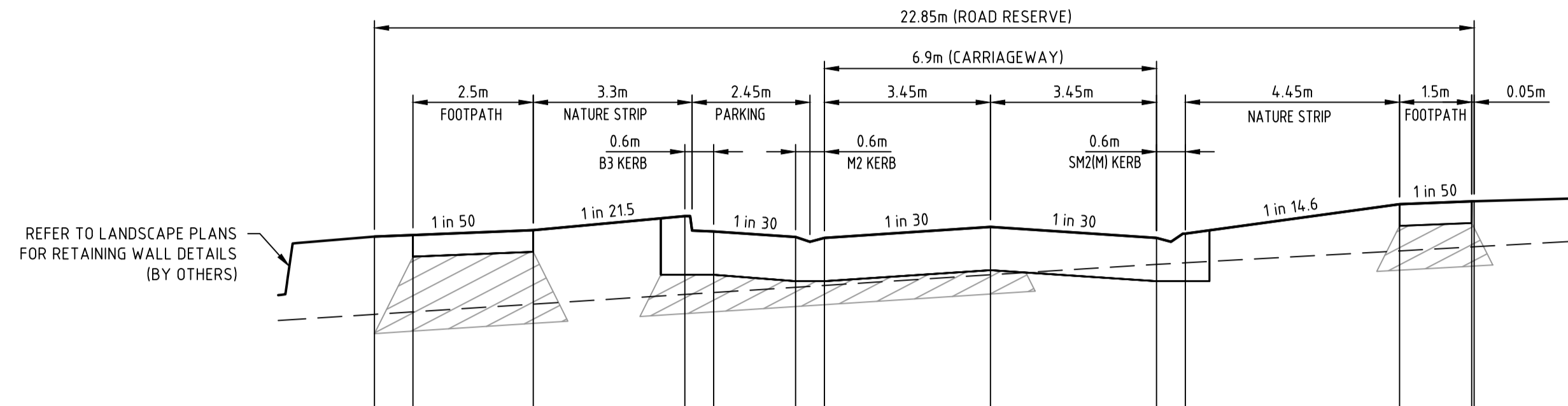
WEDGETAIL RISE CH 36.40



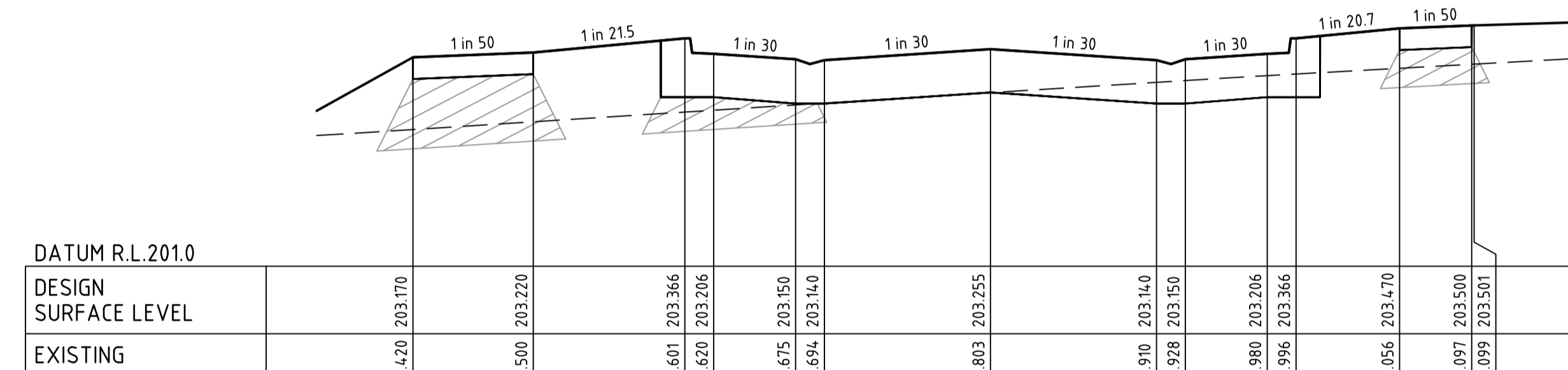
WEDGETAIL RISE CH 26.10



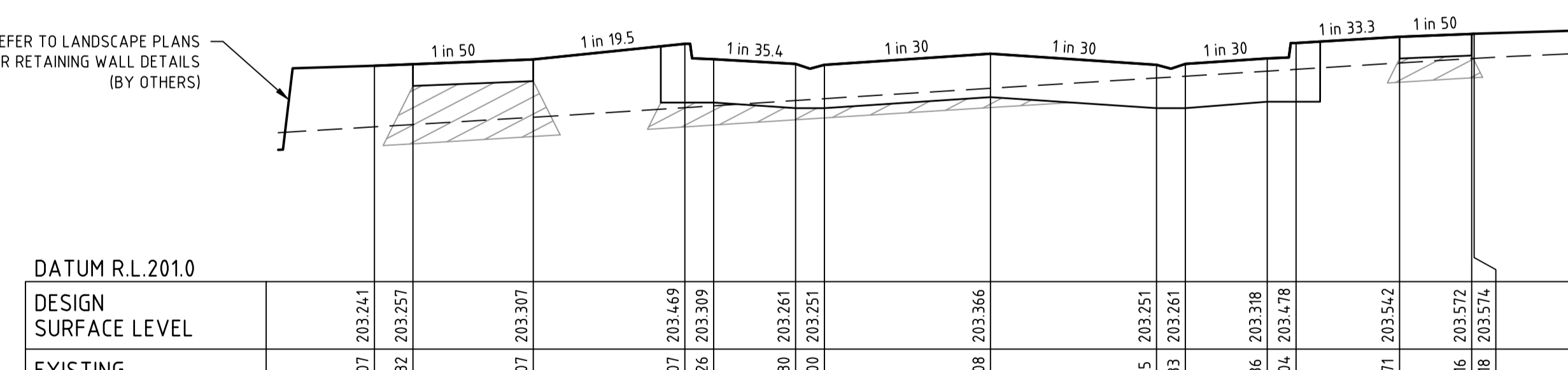
WEDGETAIL RISE CH 20.23



WEDGETAIL RISE CH 63.20



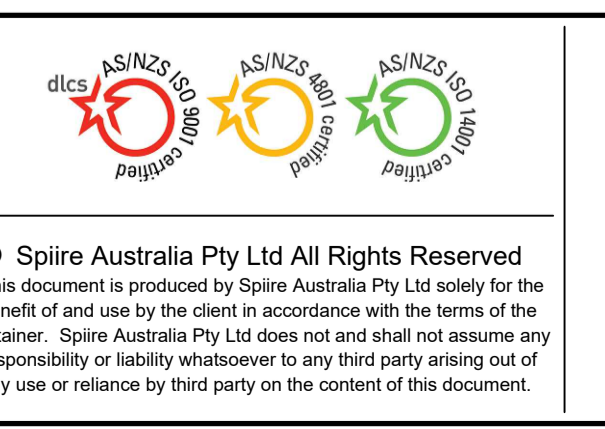
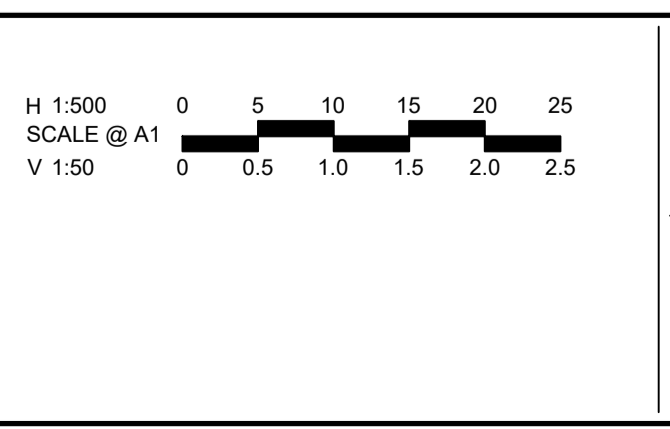
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WEDGETAIL RISE CH 49.80

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Rev	Amendments	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22



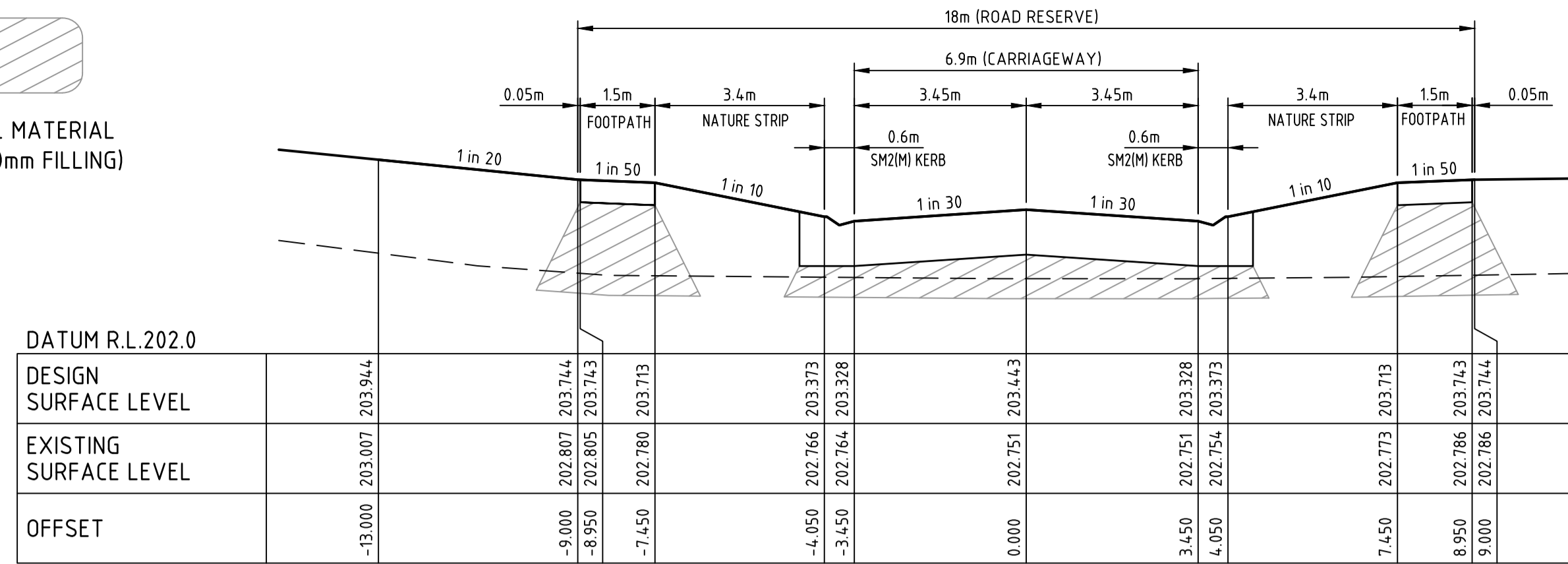
Designed M.RULE	Checked B.IBBS
Authorised C.CLARKE	Date SEPTEMBER 2022

EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD CROSS SECTIONS
WEDGETAIL RISE - SHEET 1 OF 2
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD
PRELIMINARY Drg No **308978CR403** Rev **D**

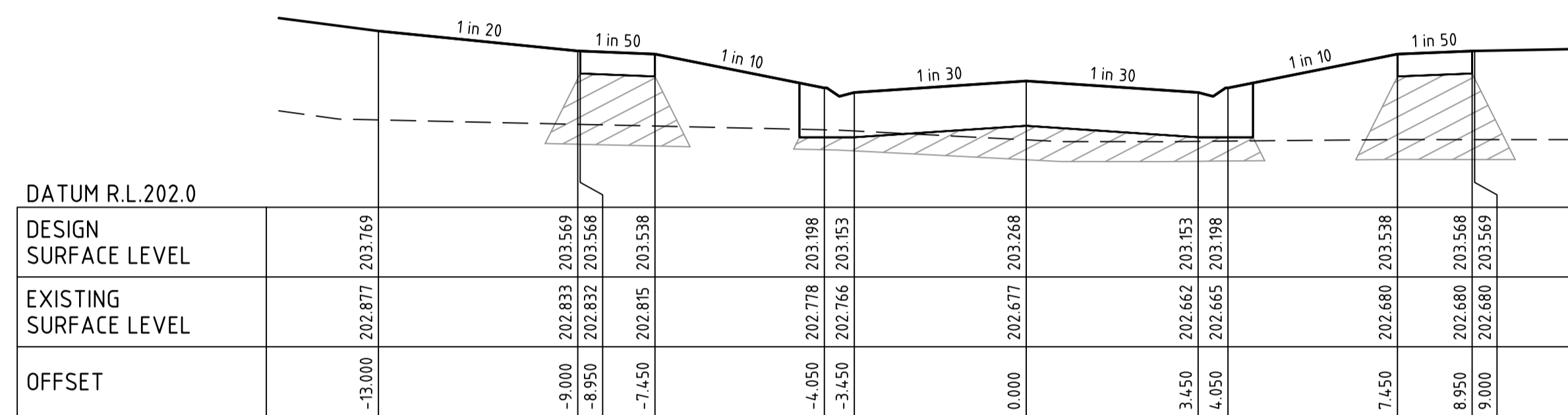


SELECT FILL MATERIAL
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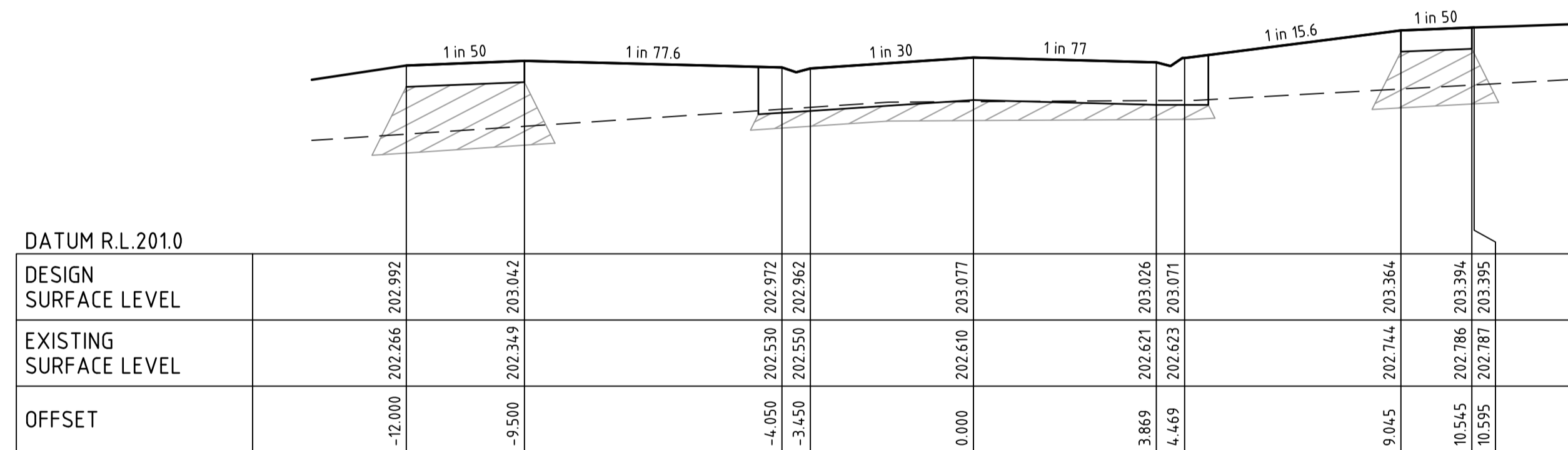
PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 15 of 35



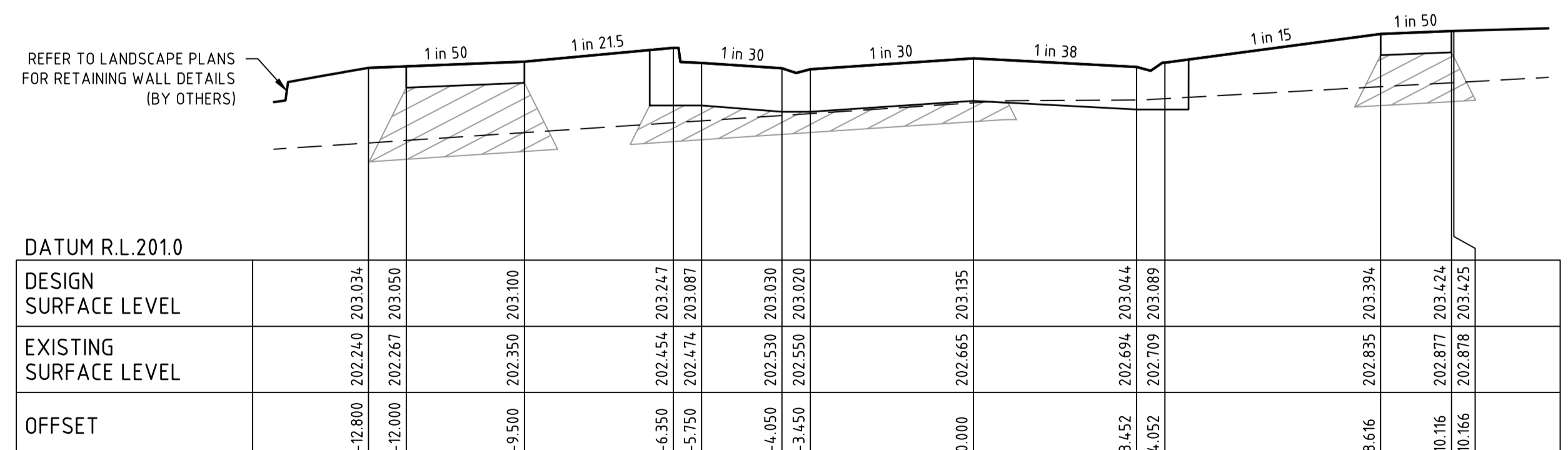
WEDGETAIL RISE CH 14.06



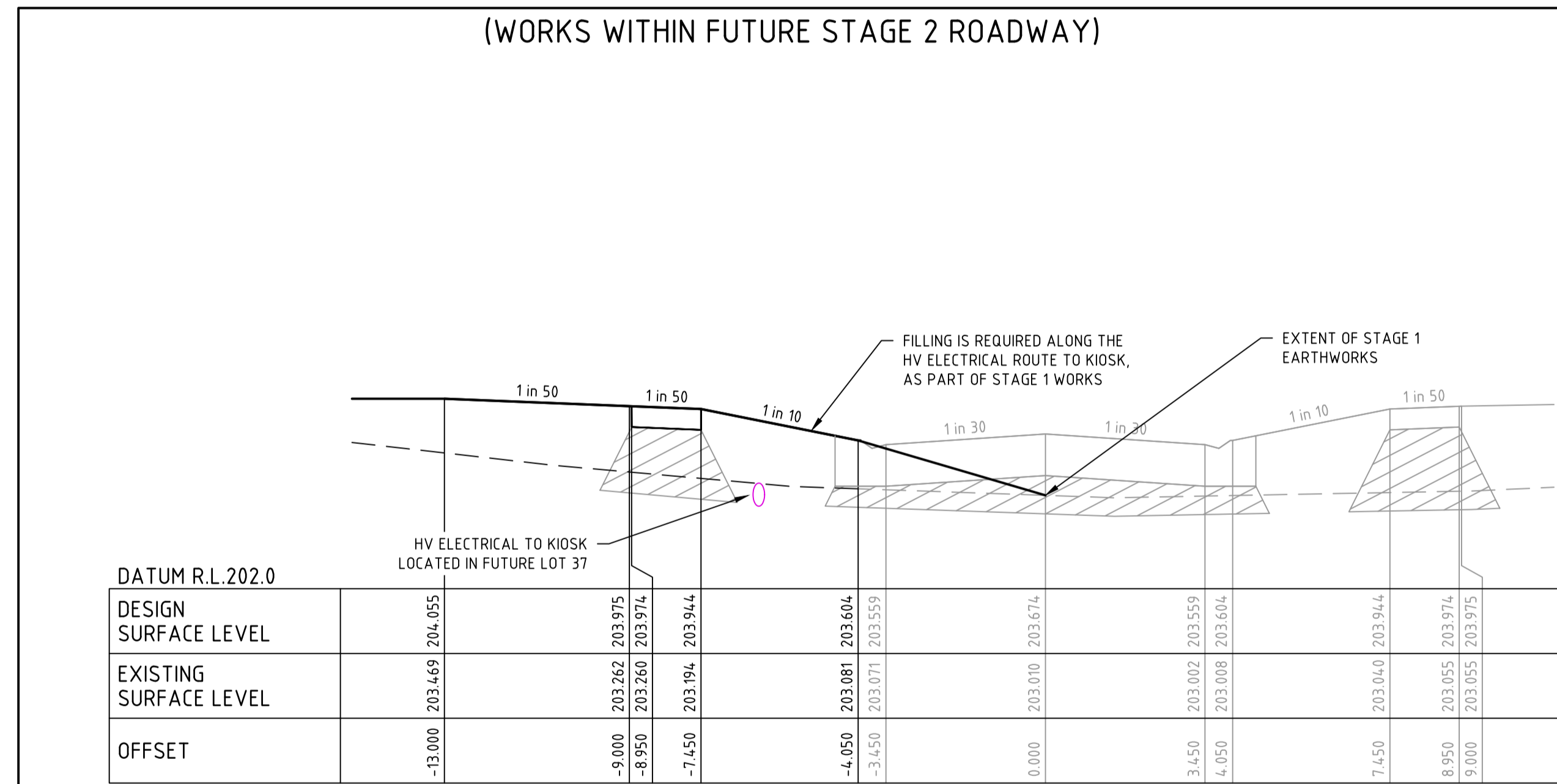
WEDGETAIL RISE CH 122.10



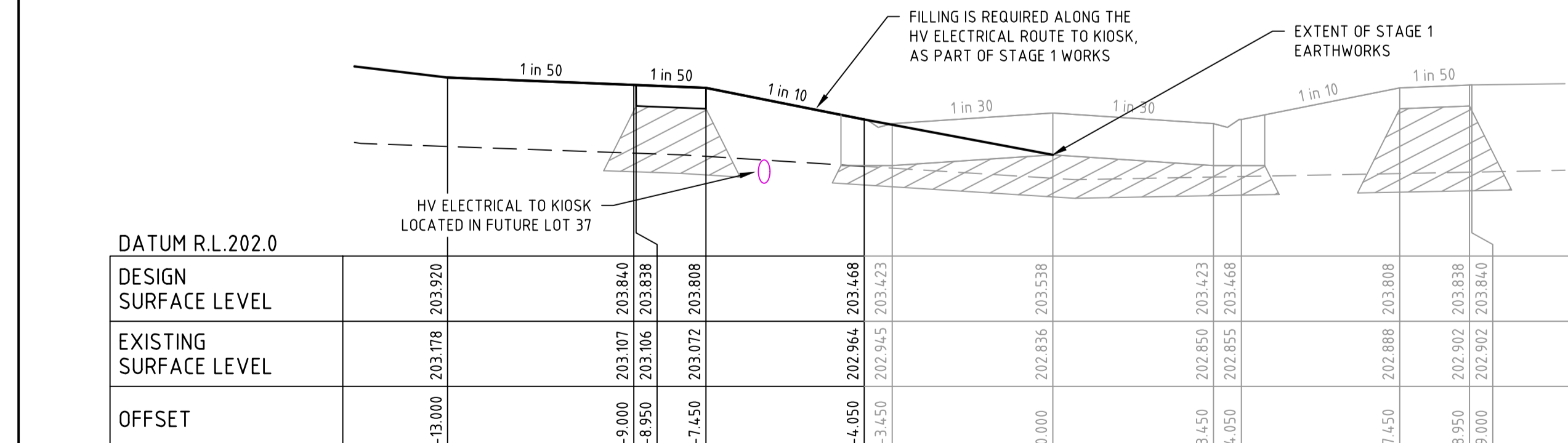
WEDGETAIL RISE CH 73.07



WEDGETAIL RISE CH 68.40



WEDGETAIL RISE (FUTURE STAGE 2 ROADWORKS) CH 179.67



WEDGETAIL RISE (FUTURE STAGE 2 ROADWORKS) CH 155.32

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Rev	Amendments	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22

H 1:500
SCALE @ A1
V 1:50

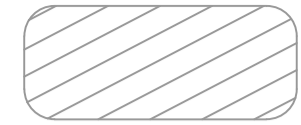
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EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD CROSS SECTIONS
WEDGETAIL RISE - SHEET 2 OF 2
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD

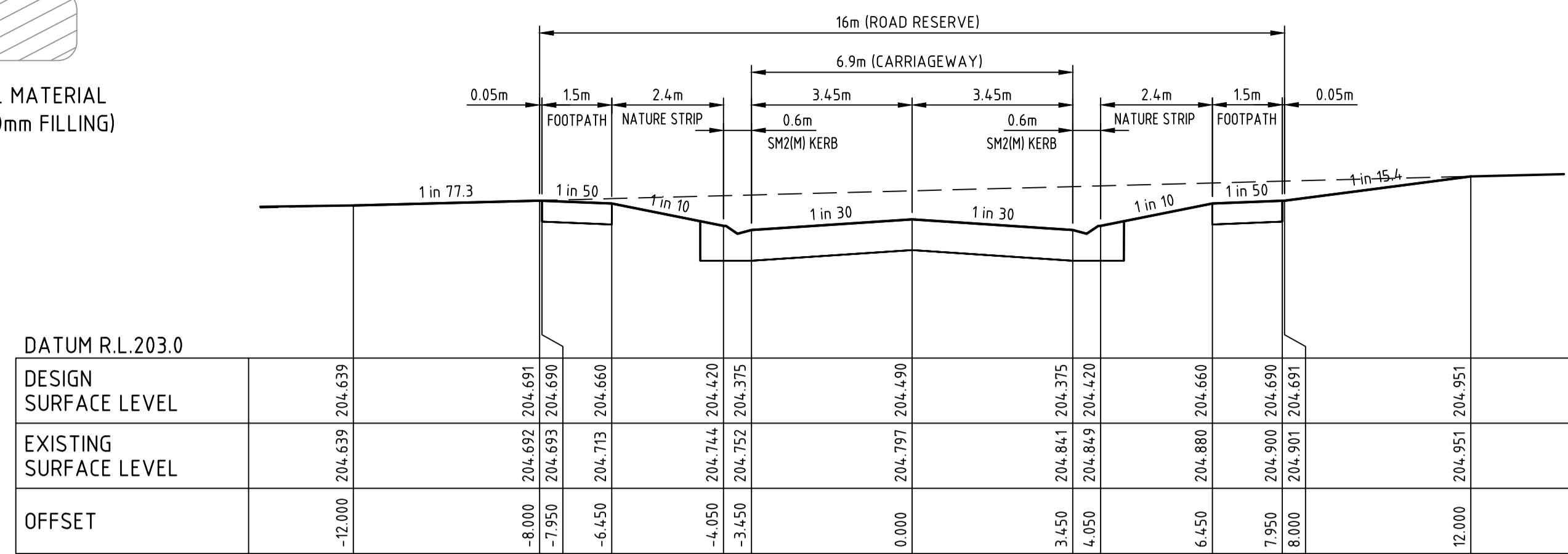
PRELIMINARY Drg No **308978CR404** Rev **D**



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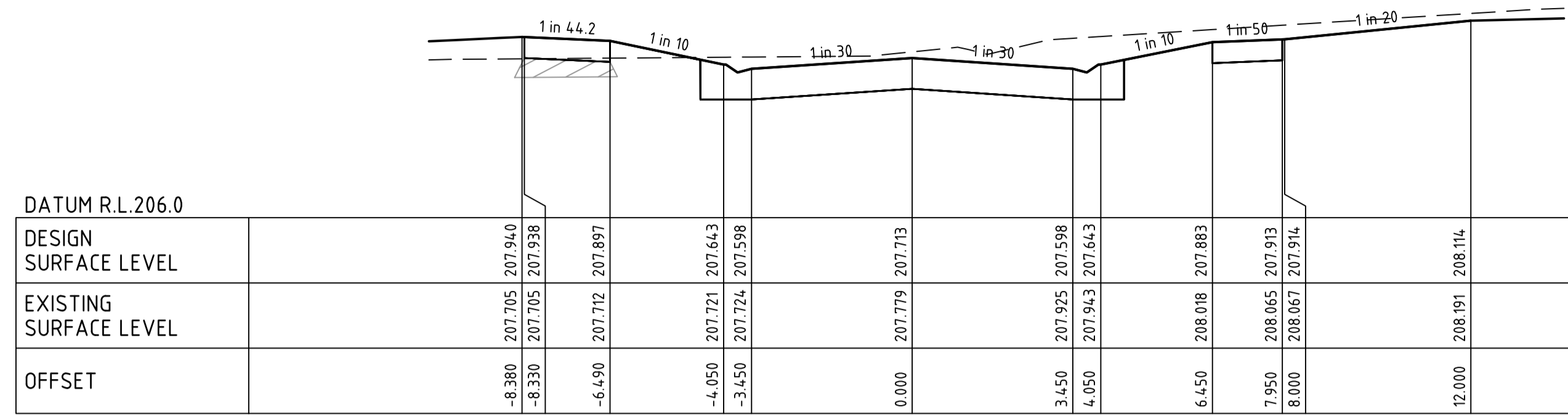
PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO. DS/337/2017
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 16 of 35

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 07 September 2022



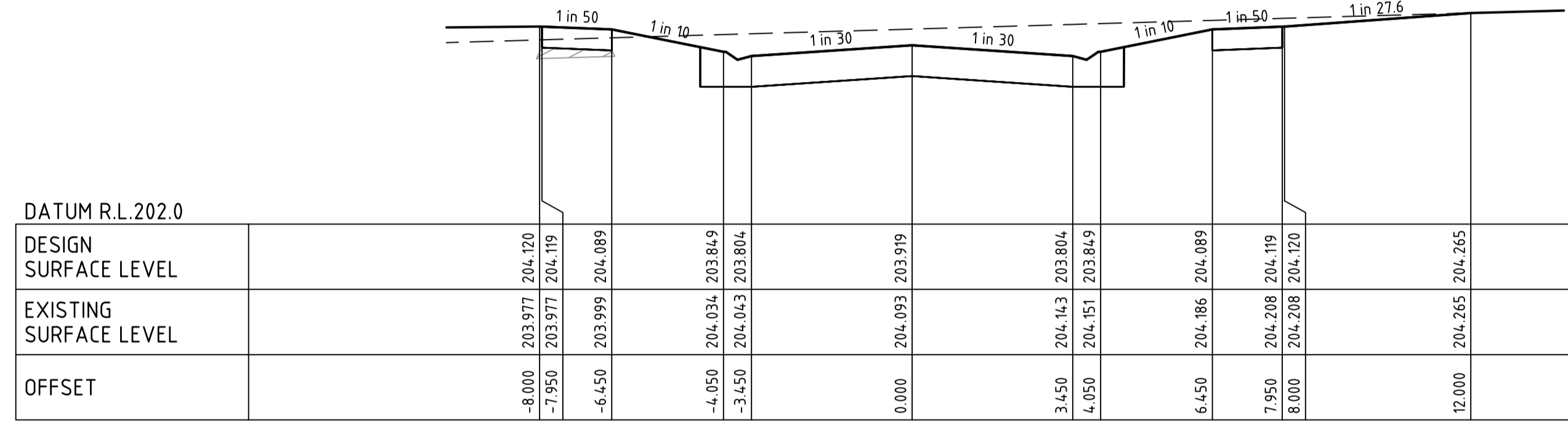
FROGMOUTH AVENUE

CH 88.27



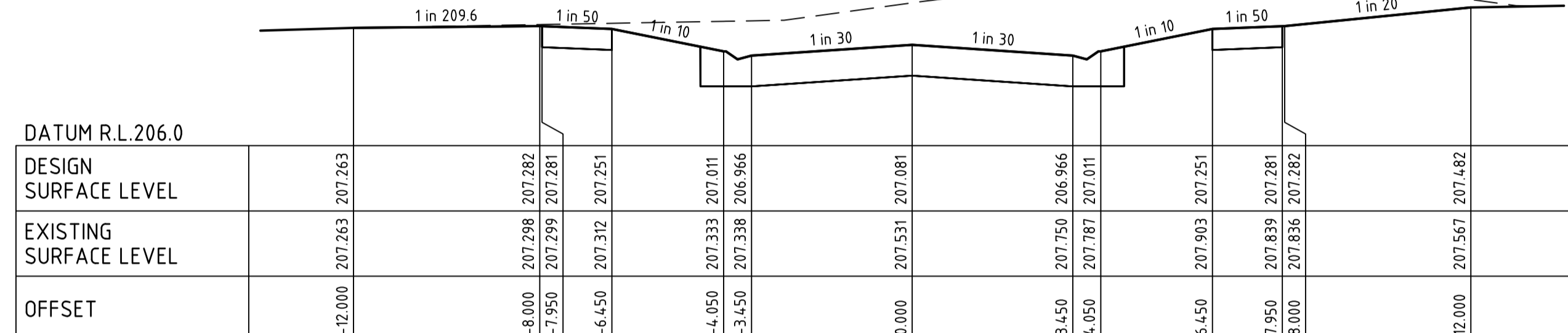
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CH 177.25



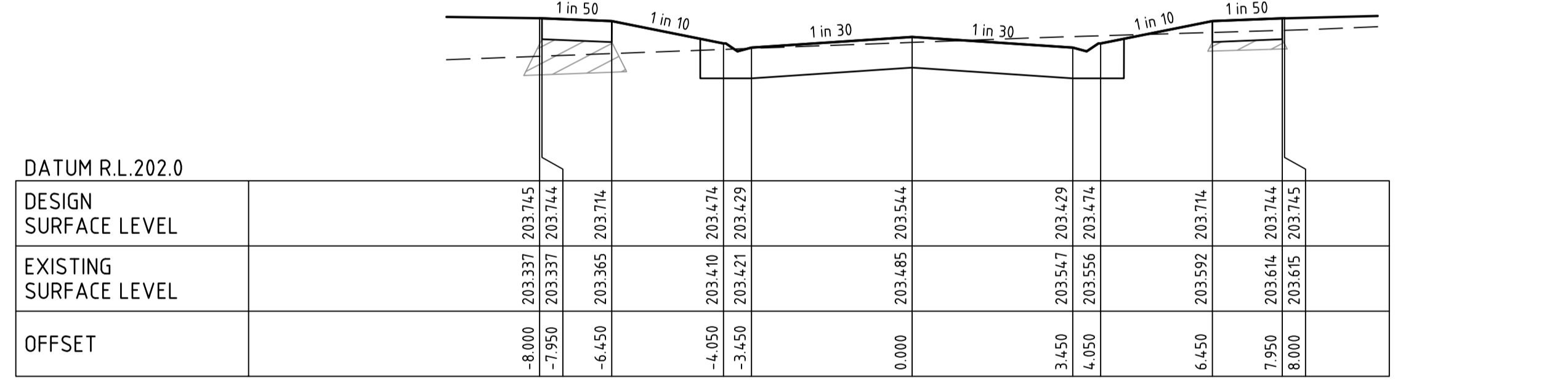
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CH 65.41



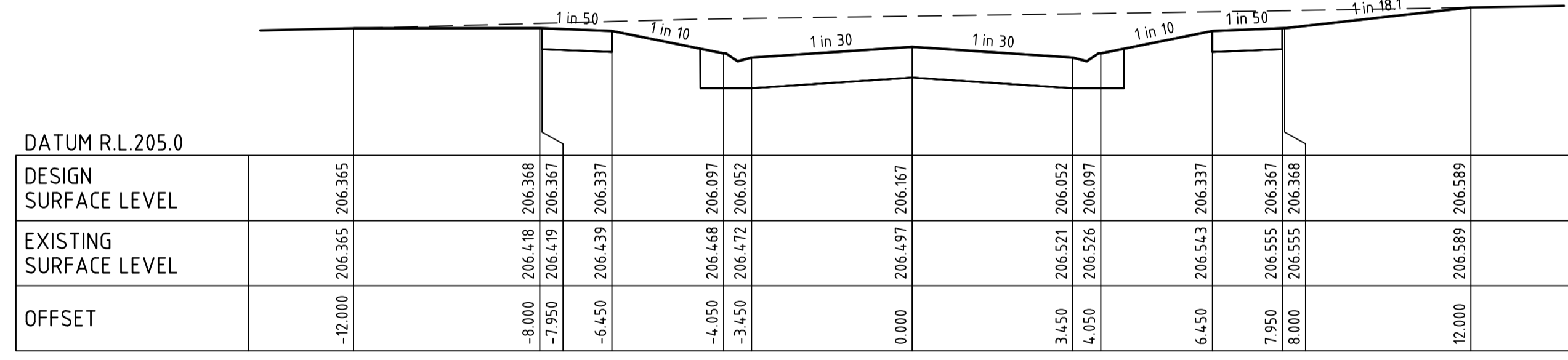
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CH 160.27



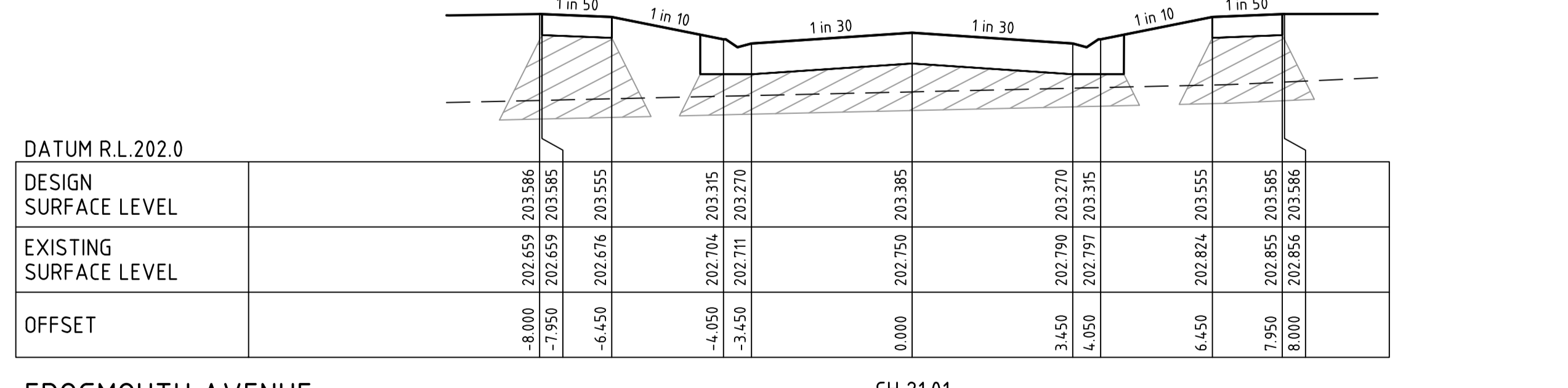
FROGMOUTH AVENUE

CH 45.41



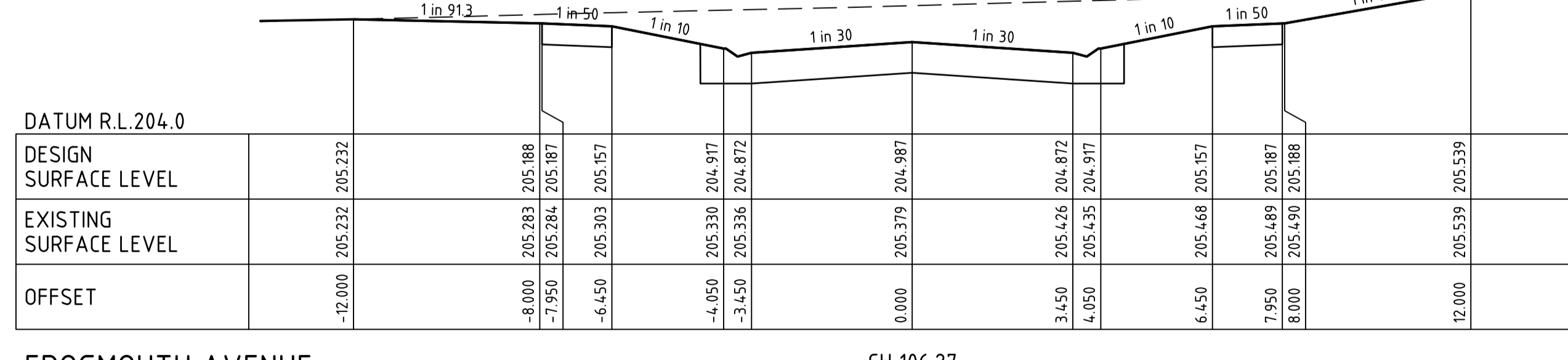
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CH 137.41



FROGMOUTH AVENUE

CH 21.01

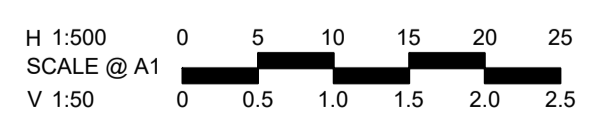


FROGMOUTH AVENUE

CH 106.27

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Rev	Description	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
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A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22
Rev	Amendments	Approved	Date



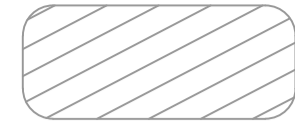
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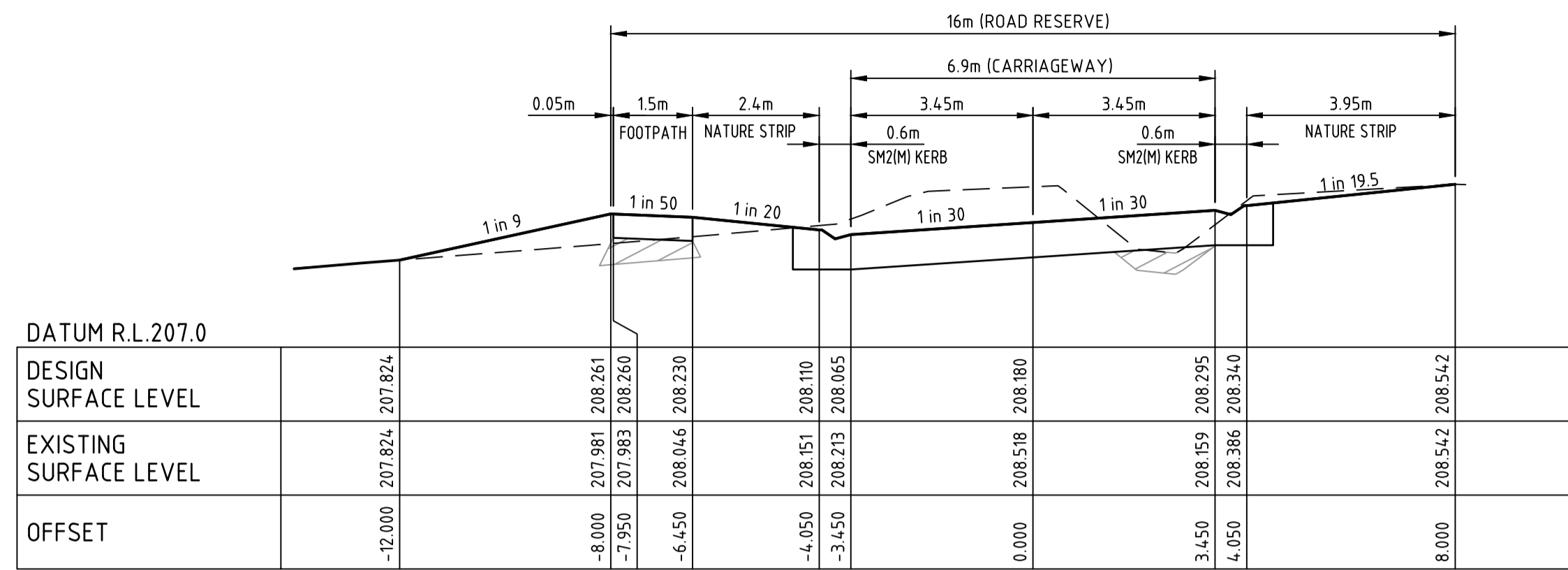
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Authorised C.CLARKE	Date SEPTEMBER 2022

EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
FROGMOUTH AVENUE
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD
PRELIMINARY Drg No **308978CR405** Rev **D**

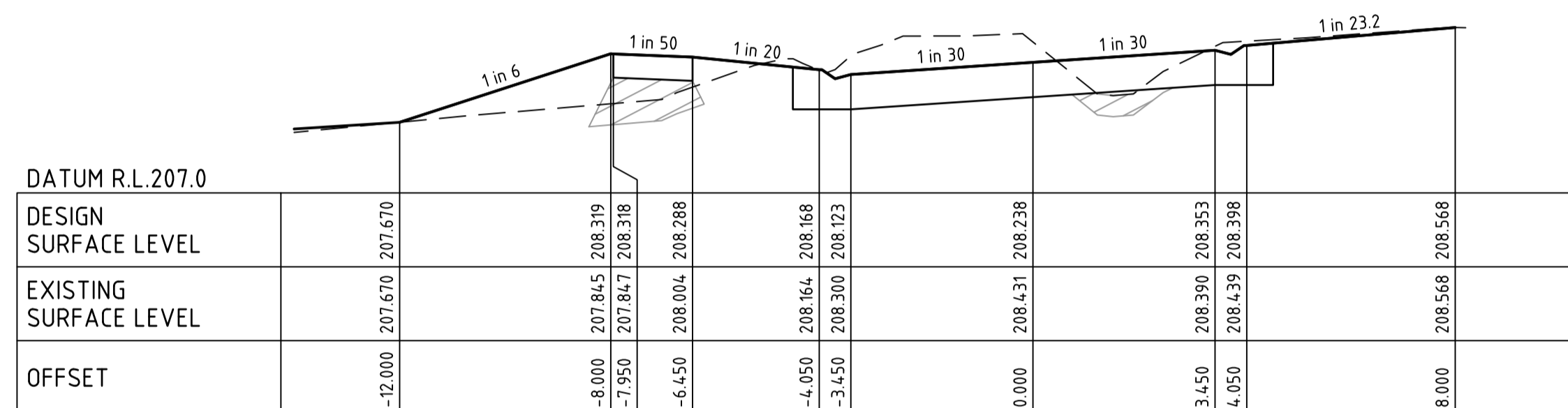


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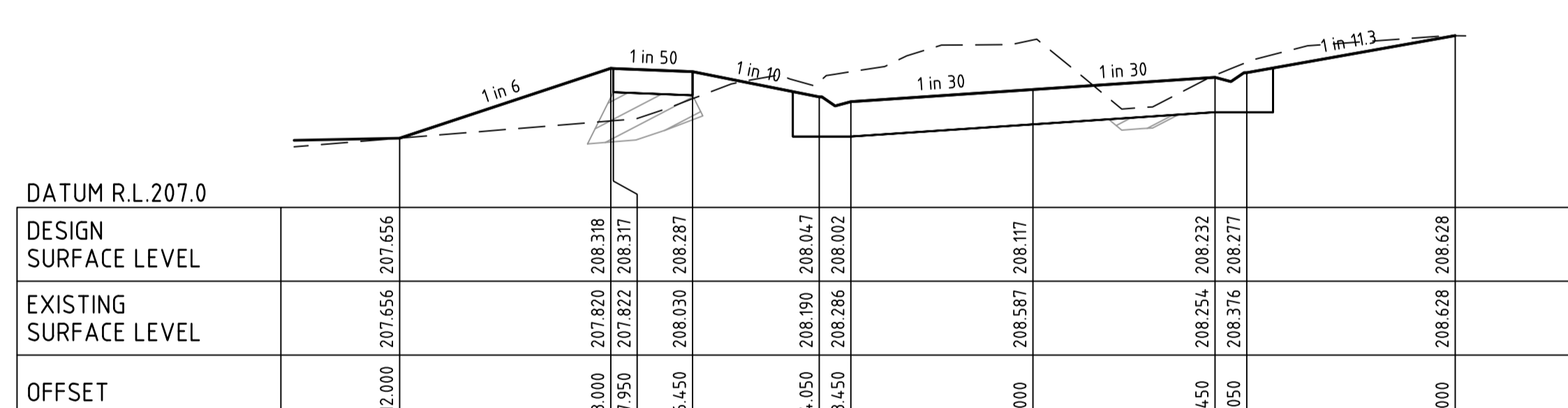
PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 17 of 35



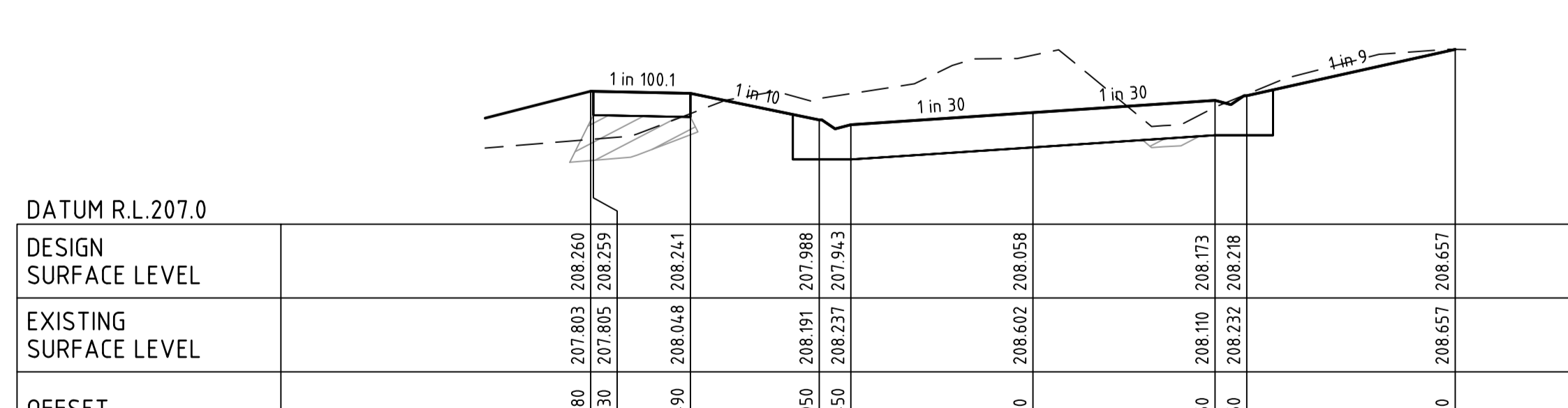
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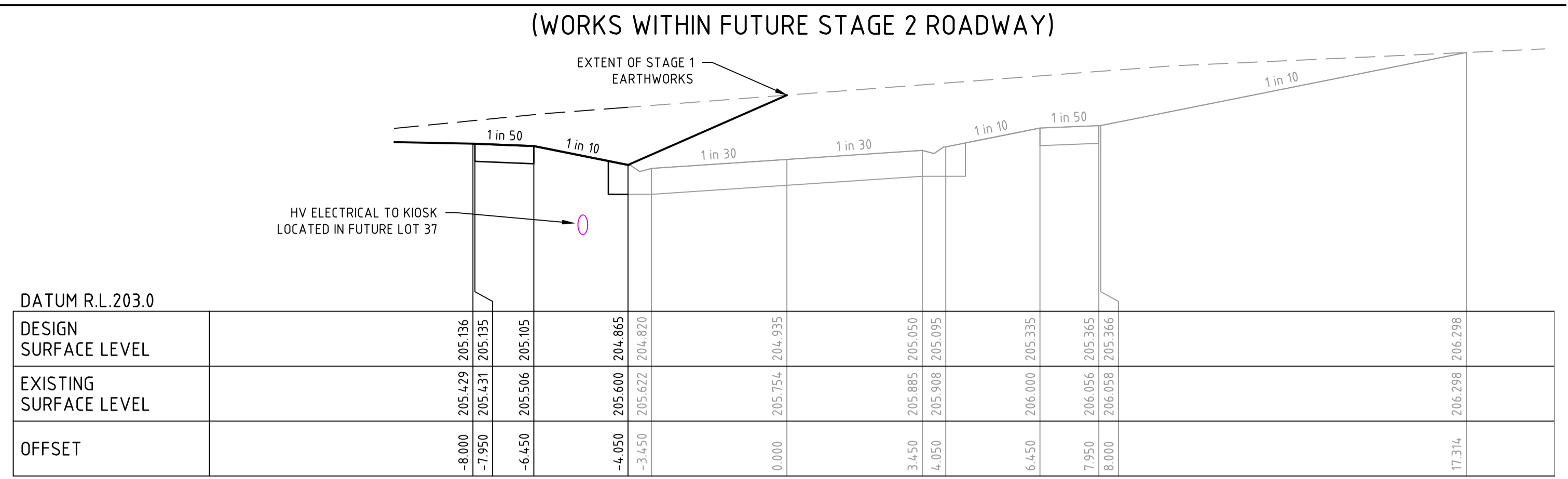
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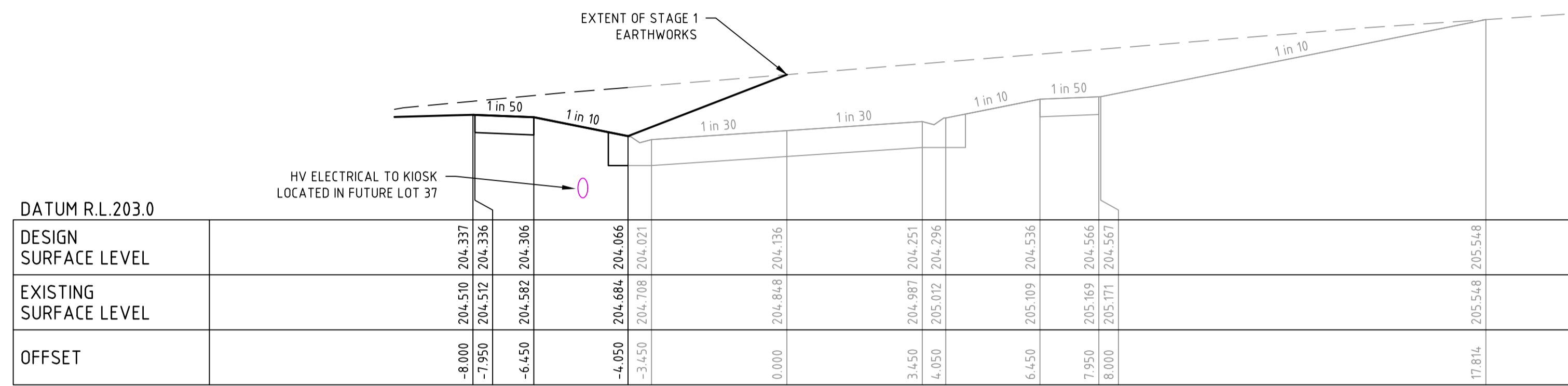
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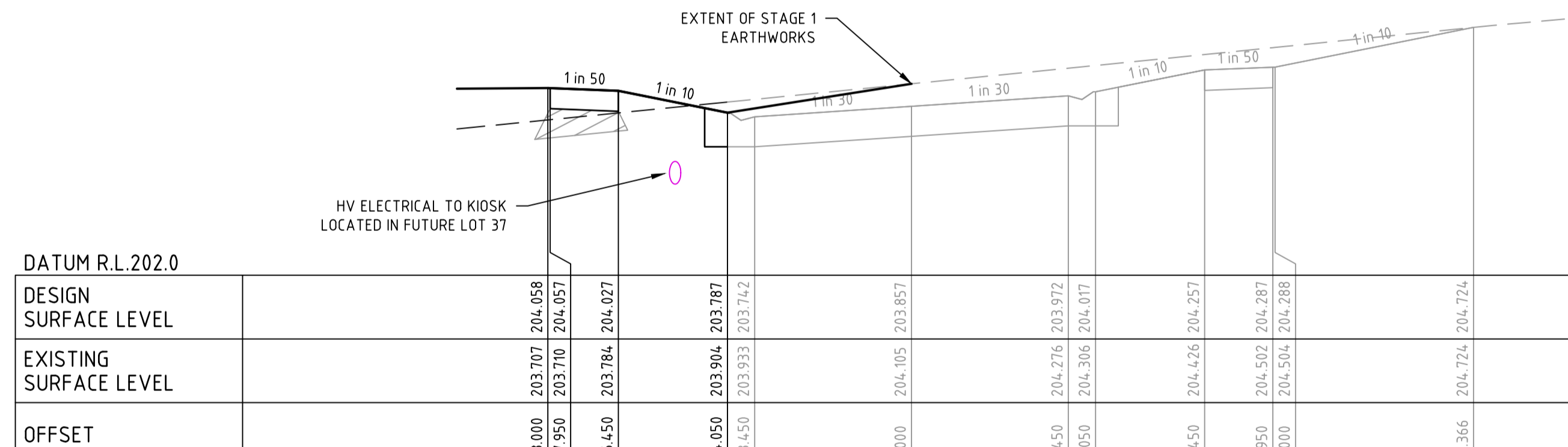
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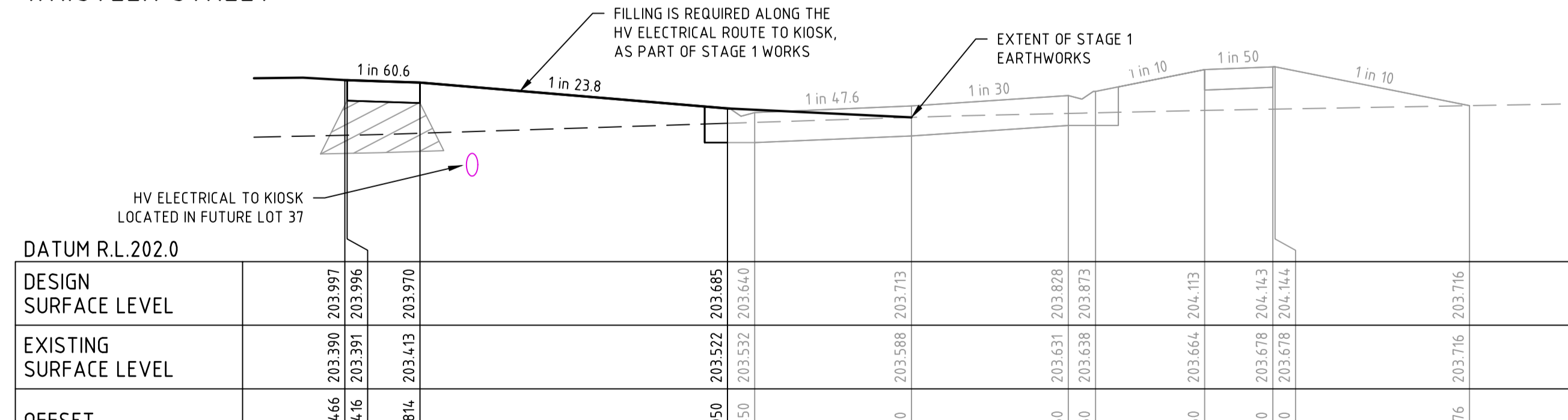
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WHISTLER STREET CH 43.83



WHISTLER STREET CH 25.83



WHISTLER STREET CH 11.45

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 07 September 2022

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Rev	Description	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22

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SCALE @ A1
V 1:50

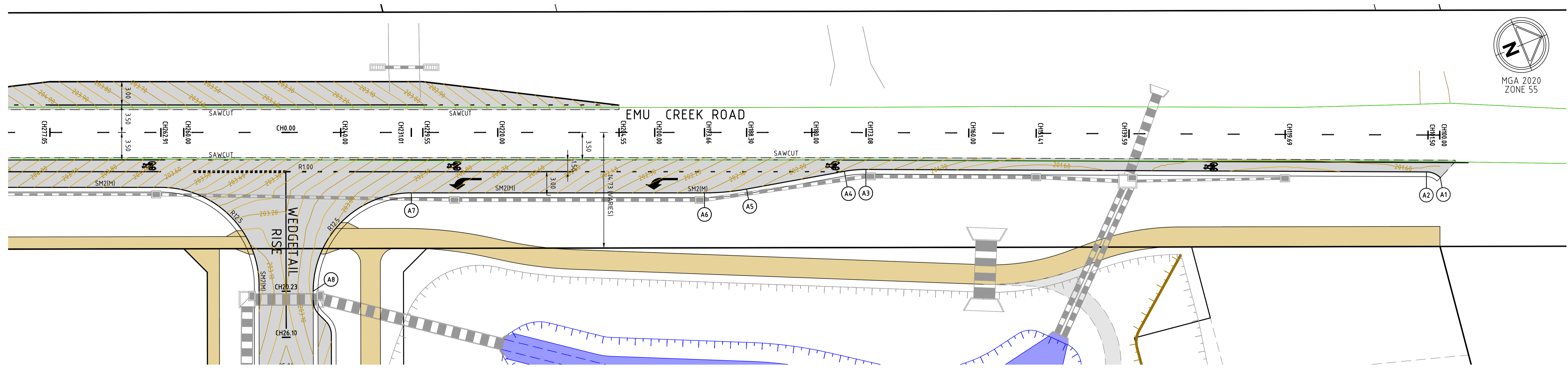
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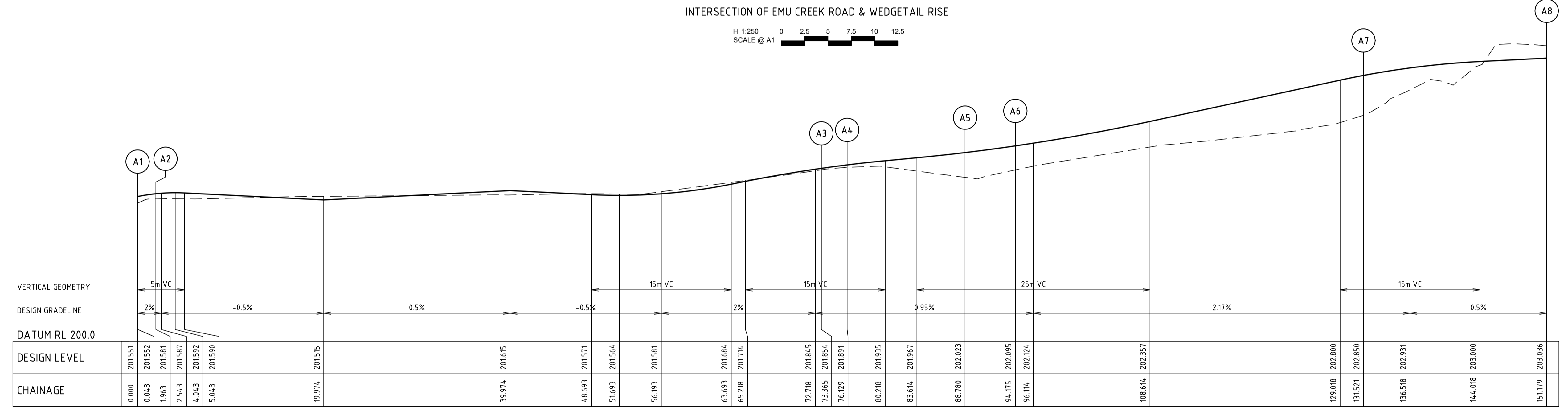
EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD CROSS SECTIONS
FROGMOUTH AVENUE & WHISTLER STREET
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No **308978CR406** Rev **D**



SETOUT DETAIL PLAN
 INTERSECTION OF EMU CREEK ROAD & WEDGETAIL RISE
 H 1:250 0 2.5 5 7.5 10 12.5
 SCALE @ A1

GREATER BENDIGO CITY COUNCIL
 ENGINEERING PLANS
 APPROVED BY: Peter Brasier
 DATE: 07 September 2022



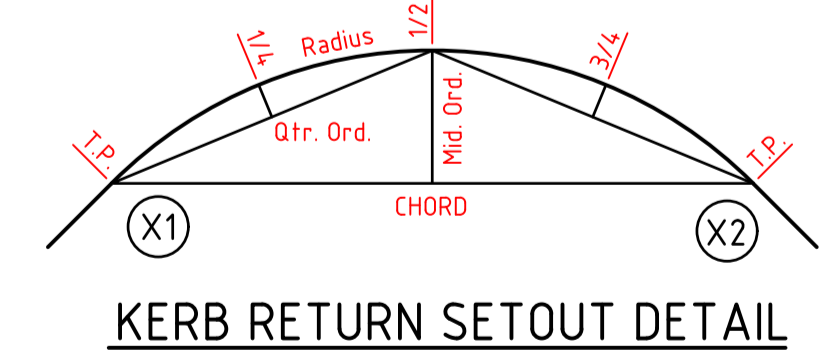
ALIGNMENT A
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 SCALE @ A1
 V 1:25 0 0.25 0.5 0.75 1 1.25

ALIGNMENT A

POINT NO	EASTING	NORTHING	RL	CHAINAGE
A1	264.567	5922.936	6.21	201.551
A2	264.567	5922.936	3.92	201.561
A3	264.566	5922.935	2.73	201.581
A4	264.538	5922.868	4.18	201.854
A5	264.538	5922.868	1.20	201.873
A6	264.538	5922.866	7.84	201.891
A7	264.535	5922.854	4.18	202.023
A8	264.534	5922.850	5.32	202.075
A9	264.533	5922.849	2.74	202.095
A10	264.519	5922.814	7.66	202.850
A11	264.518	5922.809	9.76	202.930
A12	264.519	5922.805	1.88	202.983
A13	264.522	5922.801	1.32	203.011
A14	264.526	5922.798	4.28	203.036

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	2.500	1.963	1.913	0.190	0.048
A3-A4	15.000	2.765	2.761	0.064	0.016
A5-A6	30.000	5.396	5.388	0.121	0.030
A7-A8	12.500	19.658	17.694	3.669	0.954

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 GREATER BENDIGO PLANNING SCHEME
 PLAN REFERRED TO IN PLANNING PERMIT
 NO: DS/337/2017
 Delegated Officer: Peter O'Brien
 For and on behalf of the City of Greater Bendigo
 Date: 8 September 2022 Page 18 of 35



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Rev	Amendments	Approved	Date
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A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22

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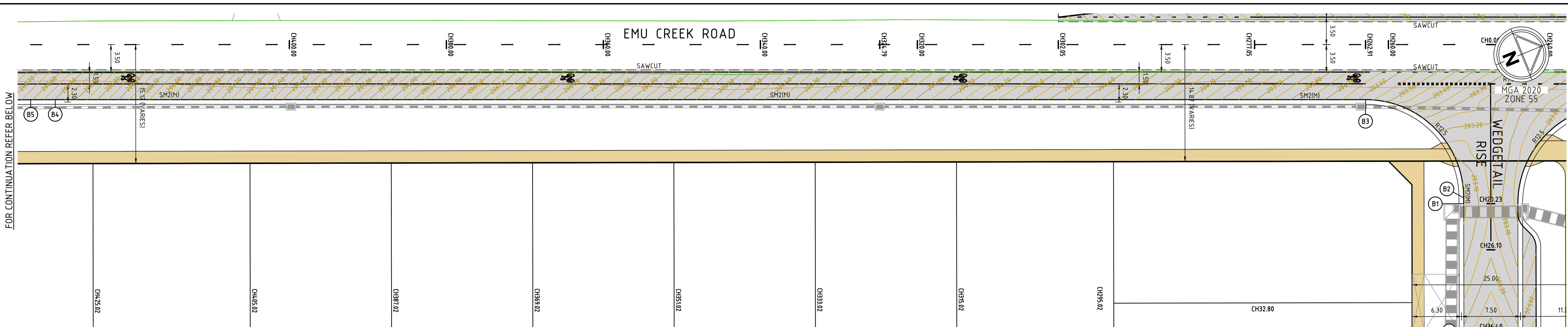
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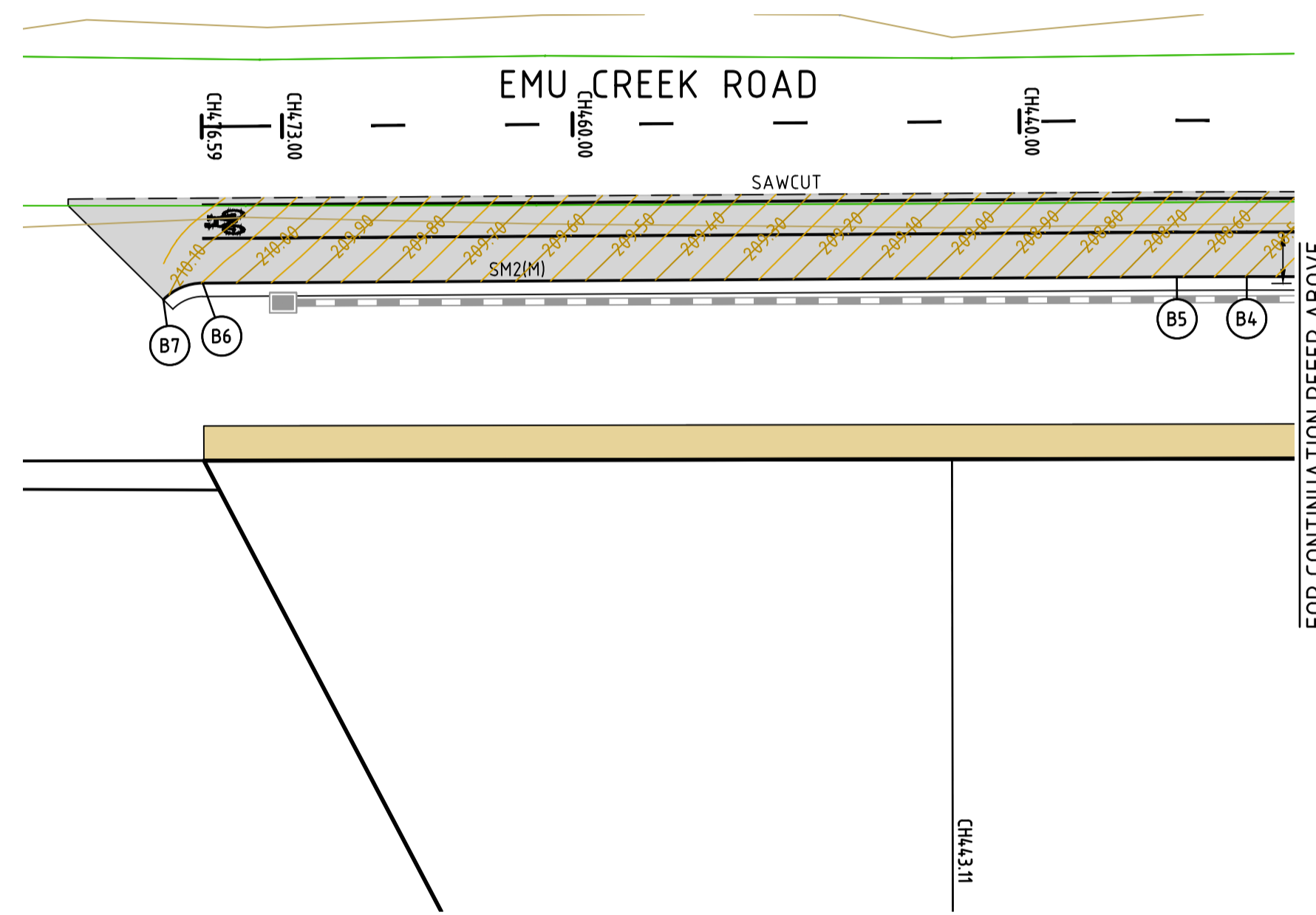
EMU RISE ESTATE - STAGE 1
 29 EMU CREEK ROAD, STRATHFIELDSAYE
 INTERSECTION & SETOUT DETAILS
 EMU CREEK ROAD & WEDGETAIL RISE
 CITY OF GREATER BENDIGO (PP - DS/337/2017)
 EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No **308978CR500** Rev **D**



SETOUT DETAIL PLAN
INTERSECTION OF EMU CREEK ROAD & WEDGETAIL RISE

H 1:250
SCALE @ A1



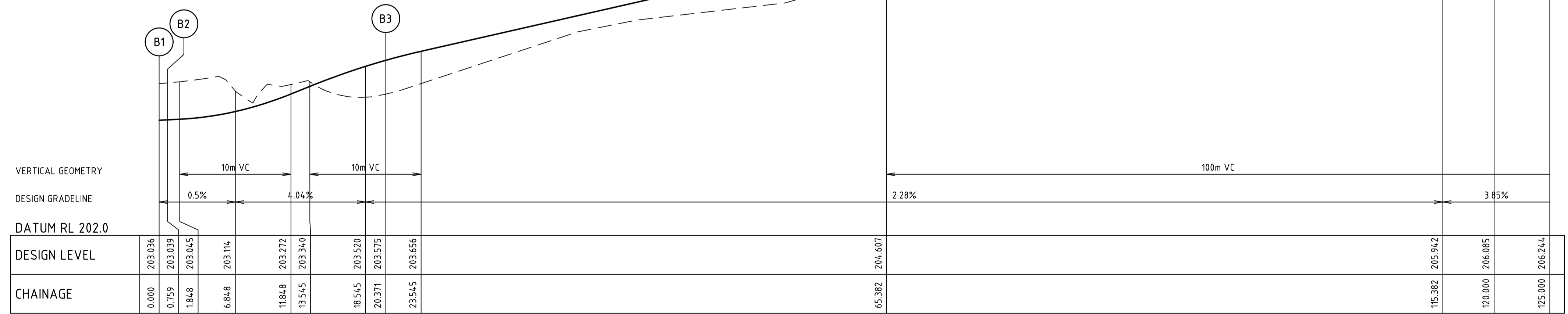
ALIGNMENT B

POINT NO	EASTING	NORTHING	RL	CHAINAGE
B1	264523.674	5922792.047	203.036	0.000
B2	264522.972	5922792.336	203.039	0.759
¼	264518.192	5922793.276	203.090	5.662
½	264513.416	5922792.318	203.223	10.565
¾	264509.368	5922789.607	203.415	15.468
B3	264506.665	5922785.555	203.575	20.371
B4	264442.855	5922631.320	208.498	187.285
½	264442.258	5922629.872	208.554	188.851
B5	264441.667	5922628.423	208.610	190.416
B6	264425.258	5922588.036	210.048	234.009
B7	264425.271	5922586.122	210.111	235.973

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B2-B3	12.500	19.612	17.661	3.653	0.949
B4-B5	493.000	3.131	3.132	0.002	0.001
B6-B7	2.500	1.963	1.913	0.190	0.048

FOR CONTINUATION REFER TO
SETOUT ON SHEET 308978CR502

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NO: DS/337/2017
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For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 19 of 35



ALIGNMENT B
H 1:250
SCALE @ A1
V 1:25

DESIGN LEVEL	CHAINAGE
203.036	0.000
203.039	0.759
203.045	1.848
203.114	6.848
203.272	11.848
203.340	13.545
203.520	18.545
203.575	20.371
203.656	23.545
204.607	65.382
205.942	115.382
206.085	120.000
206.244	125.000

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DATE: 07 September 2022

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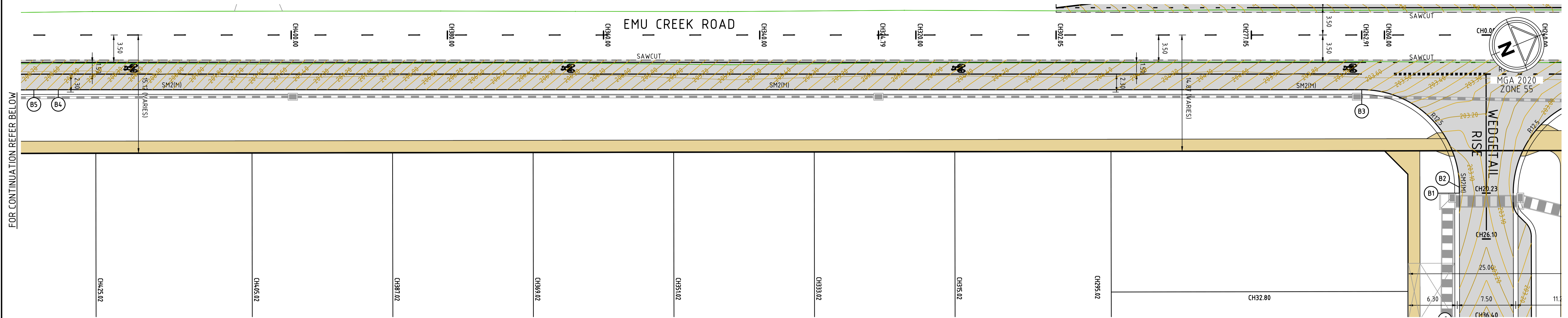
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Date
SEPTEMBER 2022

EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
INTERSECTION & SETOUT DETAILS
EMU CREEK ROAD & WEDGETAIL RISE
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD

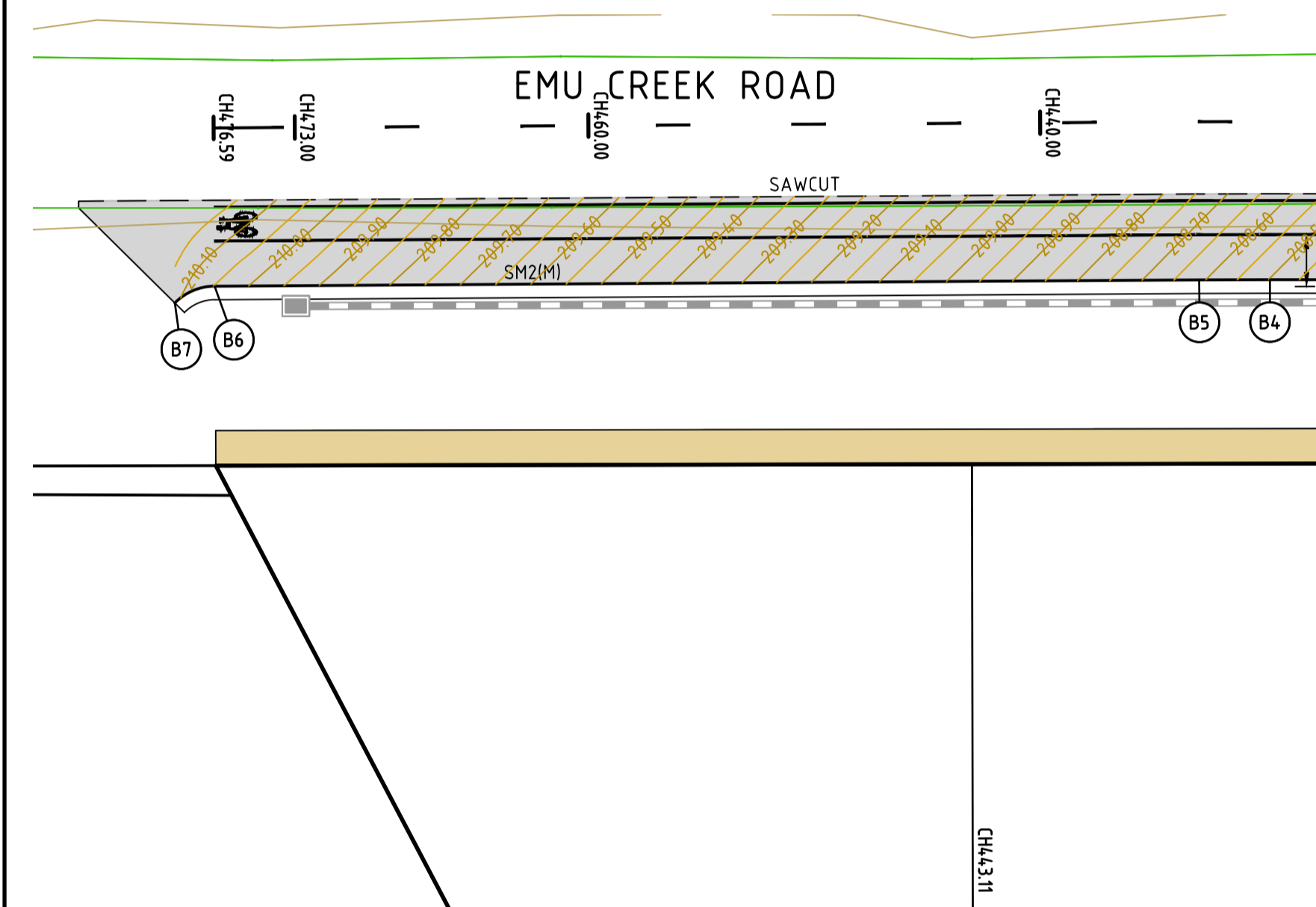
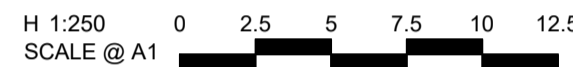
PRELIMINARY Drg No 308978CR501 Rev D

Rev	Amendments	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
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A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22

FOR CONTINUATION REFER BELOW



SETOUT DETAIL PLAN
INTERSECTION OF EMU CREEK ROAD & WEDGETAIL RISE

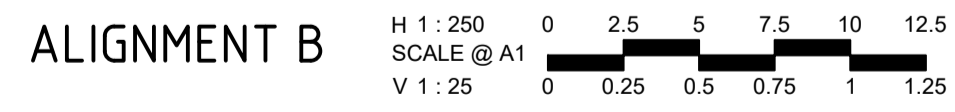
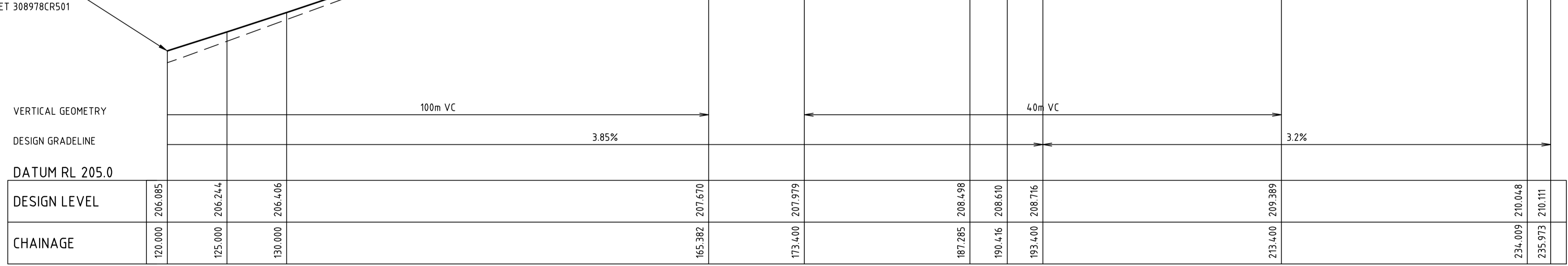


ALIGNMENT B

POINT NO	EASTING	NORTHING	RL	CHAINAGE
B1	264523.674	5922792.047	203.036	0.000
B2	264522.972	5922792.336	203.039	0.759
B3	264518.192	5922793.276	203.090	5.662
B4	264513.416	5922792.318	203.223	10.565
B5	264509.368	5922789.607	203.415	15.468
B6	264506.665	5922785.555	203.575	20.371
B7	264442.855	5922631.320	208.498	187.285
B8	264442.258	5922629.872	208.554	188.851
B9	264441.667	5922628.423	208.610	190.416
B10	264425.258	5922588.036	210.048	234.009
B11	264425.271	5922586.122	210.111	235.973

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B2-B3	12.500	19.612	17.661	3.653	0.949
B4-B5	493.000	3.131	3.132	0.002	0.001
B6-B7	2.500	1.963	1.913	0.190	0.048

FOR CONTINUATION REFER TO
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NO: DS/337/2017
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GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
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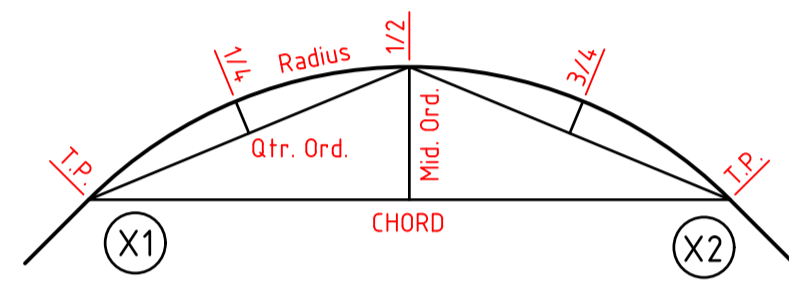
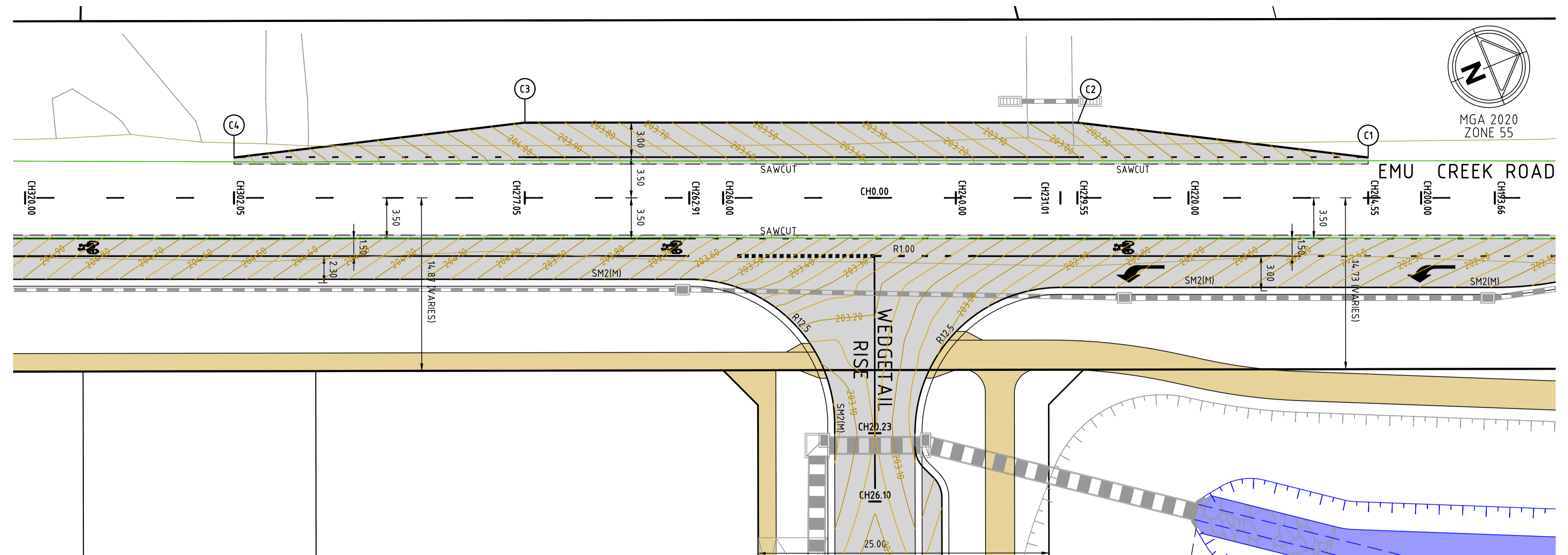
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B.IBBS
Date
SEPTEMBER 2022

EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
INTERSECTION & SETOUT DETAILS
EMU CREEK ROAD & WEDGETAIL RISE
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No **308978CR502** Rev **D**



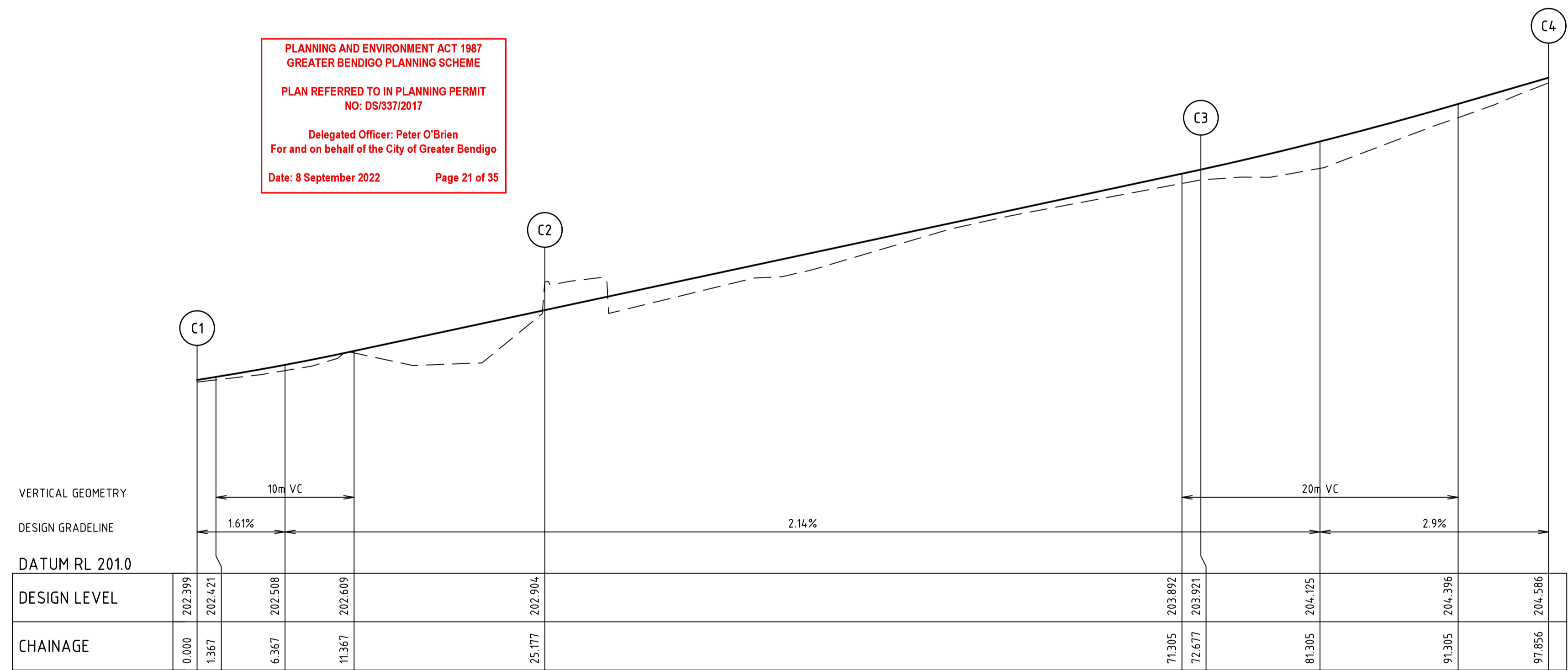
SETOUT DETAIL PLAN
EMU CREEK ROAD BAR WIDENING
H 1:250
SCALE @ A1

PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 21 of 35

ALIGNMENT C

POINT NO	EASTING	NORTHING	RL	CHAINAGE
C1	264519.273	5922843.497	202.399	0.000
C2	264506.945	5922821.546	202.904	25.177
C3	264488.786	5922777.654	203.921	72.677
C4	264482.001	5922753.406	204.586	97.856

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD



ALIGNMENT C
H 1:250
SCALE @ A1
V 1:25

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 07 September 2022

AS SHOWN



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

Designed
M.RULE
Authorised
C.CLARKE

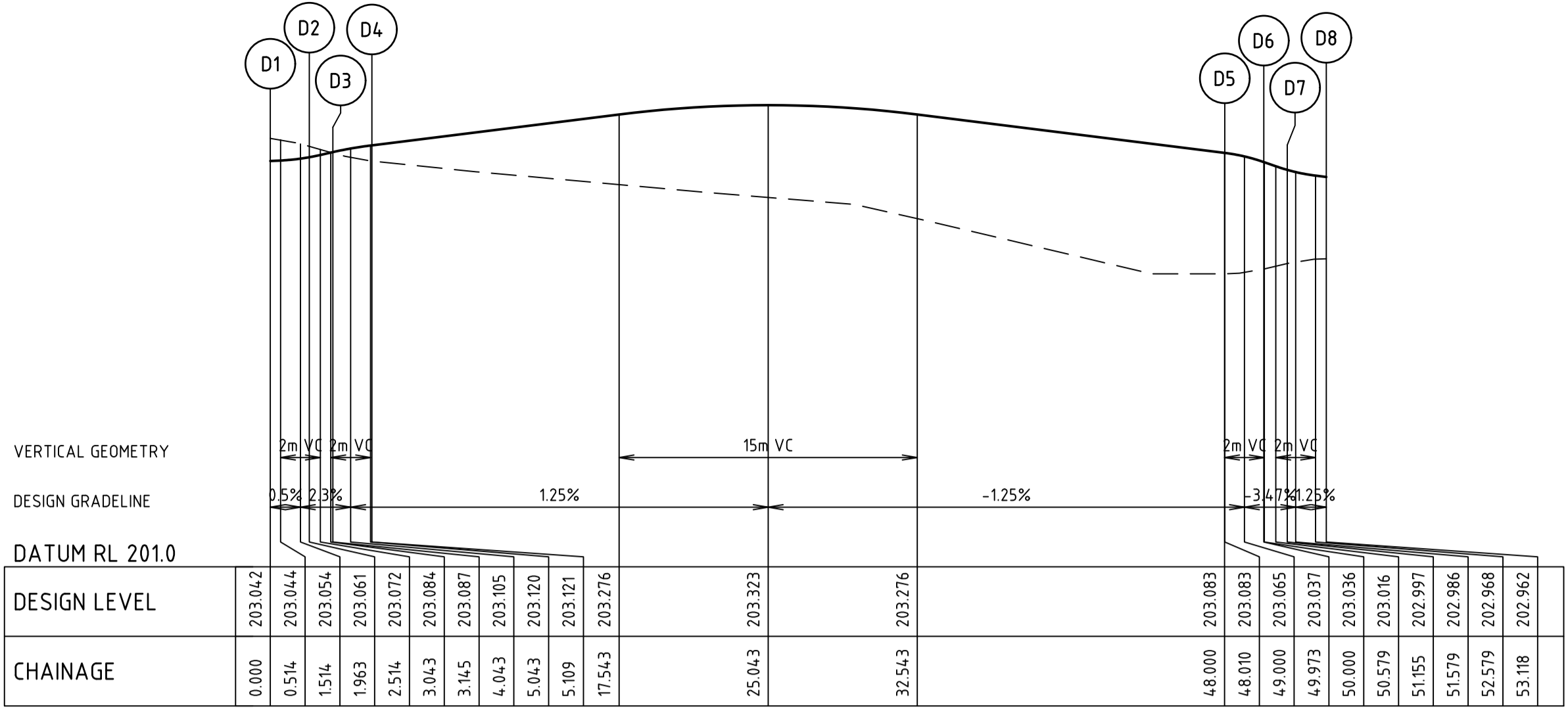
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Date
SEPTEMBER 2022

EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
INTERSECTION & SETOUT DETAILS
EMU CREEK ROAD - BAR TREATMENT
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No 308978CR503 Rev D

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Rev	Amendments	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22



ALIGNMENT D
SCALE @ A1
H 1:250
V 1:25

ALIGNMENT D

POINT NO	EASTING	NORTHING	RL	CHAINAGE
D1	264527.410	5922797.971	203.042	0.000
D2	264529.324	5922797.975	203.061	1.963
D3	264530.414	5922798.430	203.087	3.145
D4	264530.883	5922798.573	203.097	3.636
D5	264532.328	5922798.434	203.121	5.109
D6	264572.000	5922782.107	203.083	48.010
D7	264573.357	5922780.757	203.037	49.973
D8	264573.811	5922779.667	202.997	51.155
D8	264575.167	5922778.317	202.962	53.118

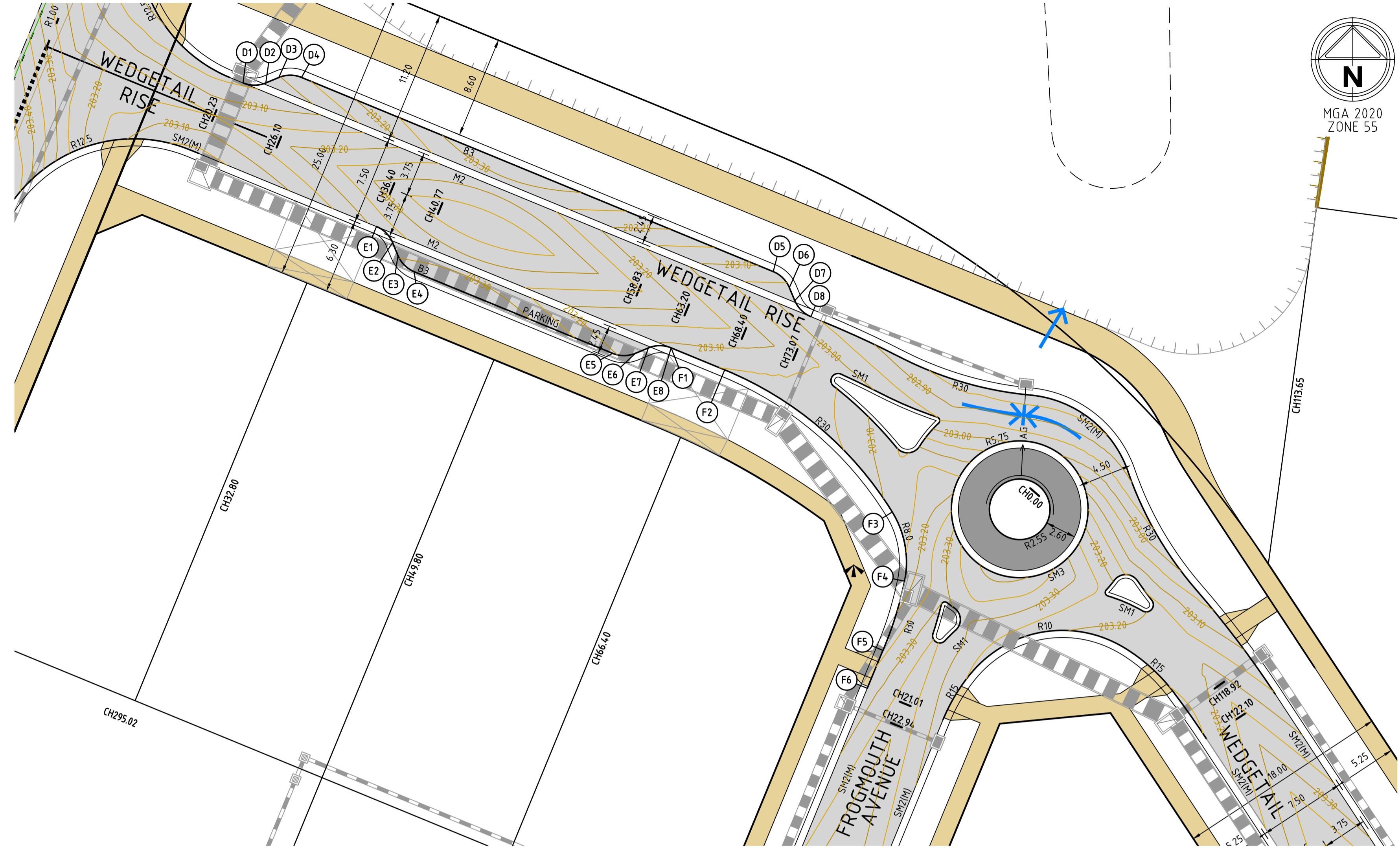
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D1-D2	2.500	1.963	1.913	0.190	0.048
D3-D4	2.500	1.963	1.913	0.190	0.048
D5-D6	2.500	1.963	1.913	0.190	0.048
D7-D8	2.500	1.963	1.913	0.190	0.048

PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME

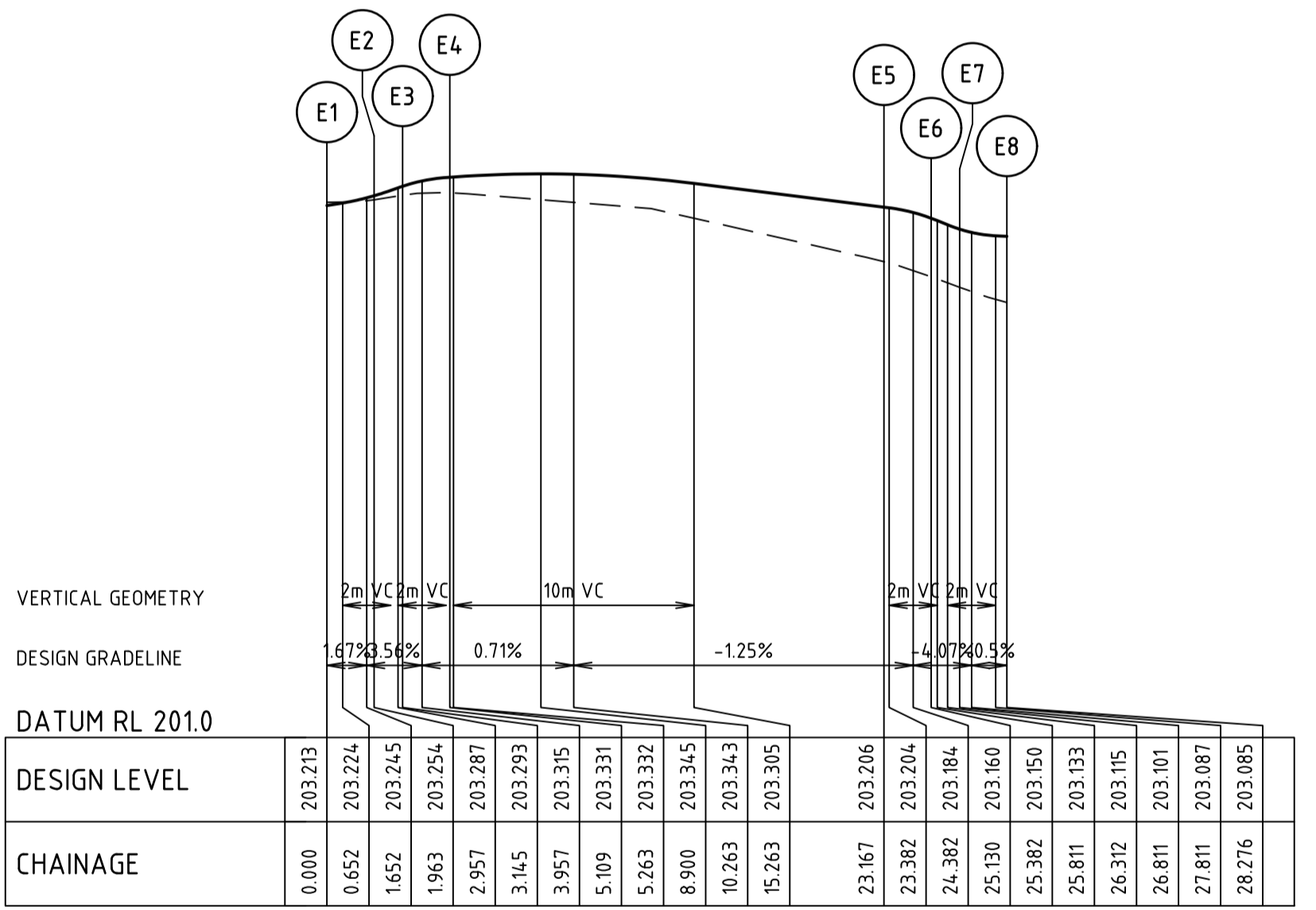
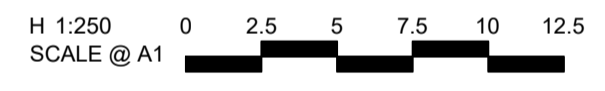
 PLAN REFERRED TO IN PLANNING PERMIT
 NO: DS/337/2017

 Delegated Officer: Peter O'Brien
 For and on behalf of the City of Greater Bendigo

 Date: 8 September 2022 Page 22 of 35



SETOUT DETAIL PLAN
INTERSECTION OF WEDGETAIL RISE & FROGMOUTH AVENUE

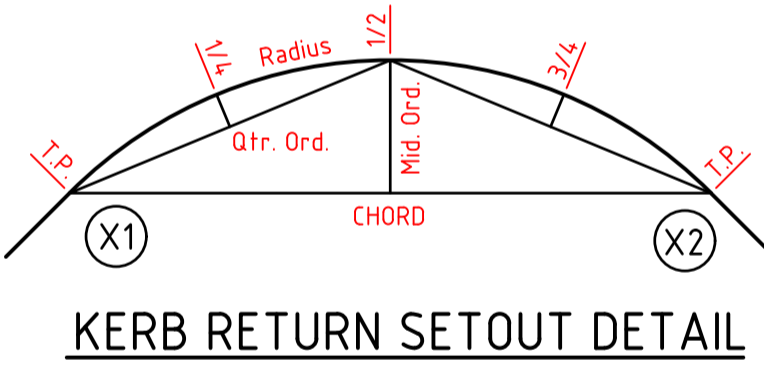


ALIGNMENT E
SCALE @ A1
H 1:250
V 1:25

ALIGNMENT E

POINT NO	EASTING	NORTHING	RL	CHAINAGE
E1	264538.629	5922785.893	203.213	0.000
E2	264539.985	5922784.543	203.254	1.963
E3	264540.439	5922783.452	203.293	3.145
E4	264541.795	5922782.102	203.331	5.109
E5	264558.495	5922775.230	203.206	23.167
E6	264560.408	5922775.234	203.160	25.130
E7	264561.499	5922775.689	203.115	26.312
E8	264563.412	5922775.693	203.085	28.276

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
E1-E2	2.500	1.963	1.913	0.190	0.048
E3-E4	2.500	1.963	1.913	0.190	0.048
E5-E6	2.500	1.963	1.913	0.190	0.048
E7-E8	2.500	1.963	1.913	0.190	0.048



GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS

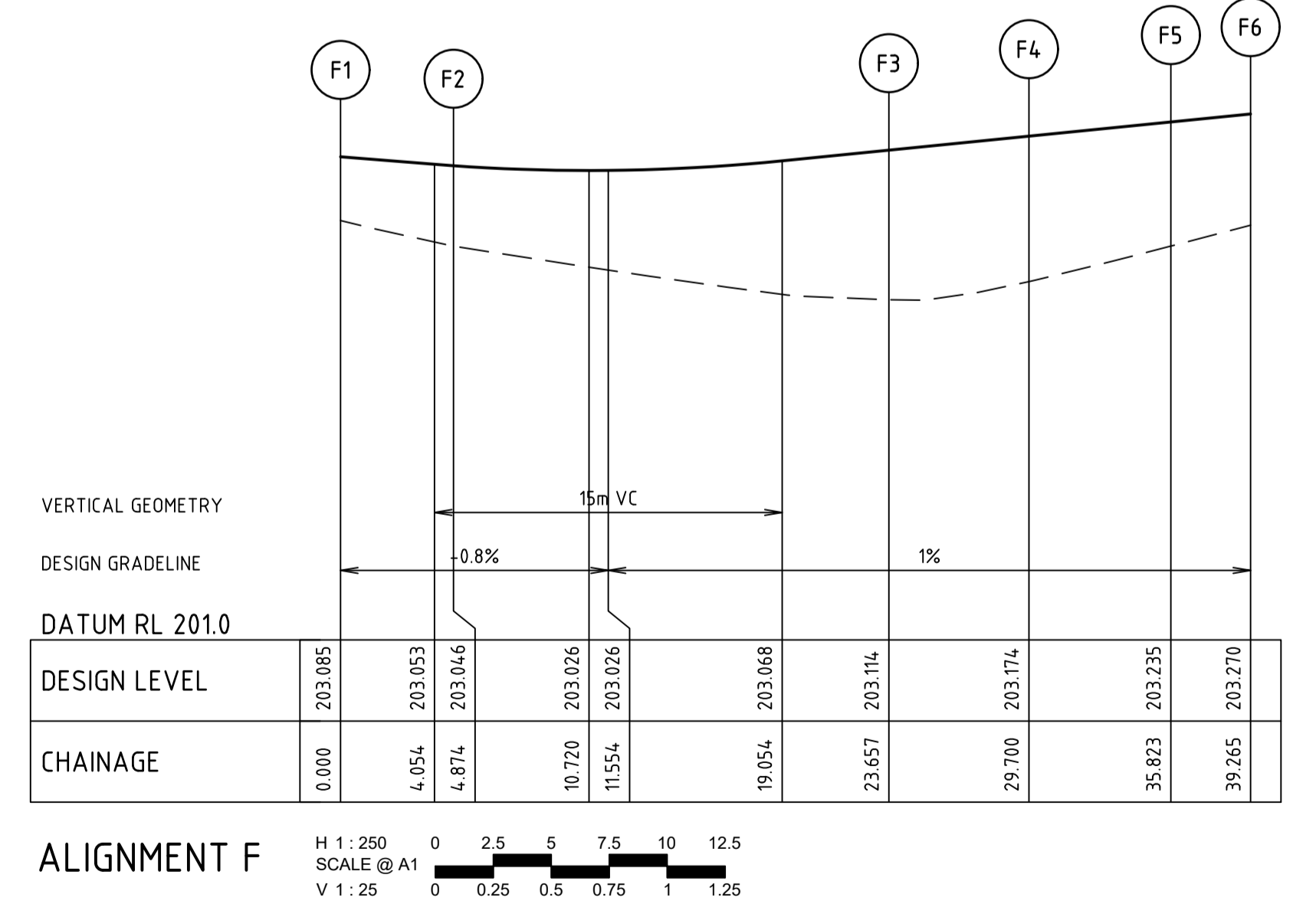
 APPROVED BY: Peter Brasier

 DATE: 07 September 2022

ALIGNMENT F

POINT NO	EASTING	NORTHING	RL	CHAINAGE
F1	264563.412	5922775.693	203.085	0.000
F2	264567.920	5922773.838	203.046	4.874
F3	264572.105	5922771.719	203.027	9.570
F4	264575.908	5922768.974	203.033	14.265
F5	264579.237	5922765.669	203.067	18.961
F6	264582.011	5922761.886	203.114	23.657
F7	264582.680	5922760.534	203.129	25.167
F8	264583.084	5922759.080	203.144	26.678
F9	264583.047	5922756.077	203.174	29.700
F10	264582.284	5922753.114	203.205	32.761
F11	264581.222	5922750.244	203.235	35.823
F12	264579.907	5922747.062	203.270	39.265

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
F2-F3	30.000	18.782	18.477	1.458	0.367
F3-F4	8.000	6.043	5.901	0.564	0.142
F4-F5	30.000	6.123	6.112	0.156	0.039



ALIGNMENT F
SCALE @ A1
H 1:250
V 1:25

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AS SHOWN



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Victoria 3550 Australia T 61 3 5448 2500
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Designed
M.RULE

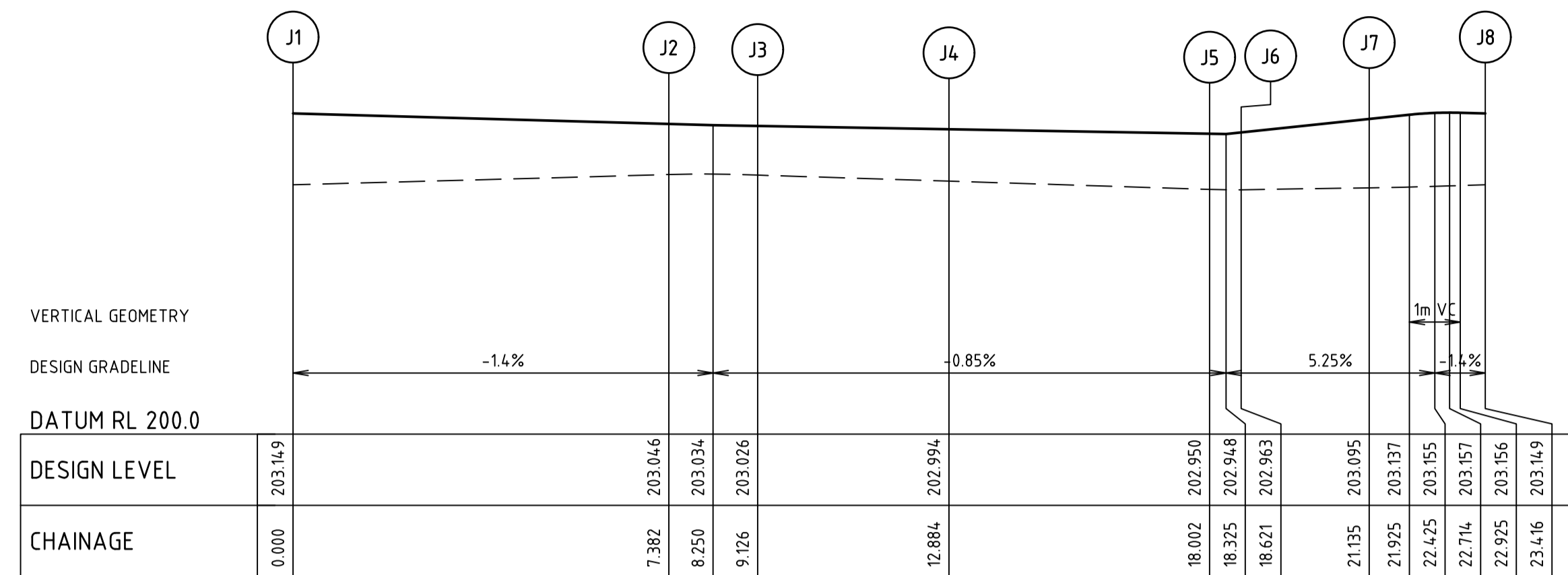
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B.IBBS

Authorised
C.CLARKE

Date
SEPTEMBER 2022

EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
INTERSECTION & SETOUT DETAILS
WEDGETAIL RISE & FROGMOUTH AVENUE
 CITY OF GREATER BENDIGO (PP - DS/337/2017)
 EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No **308978CR504** Rev **D**

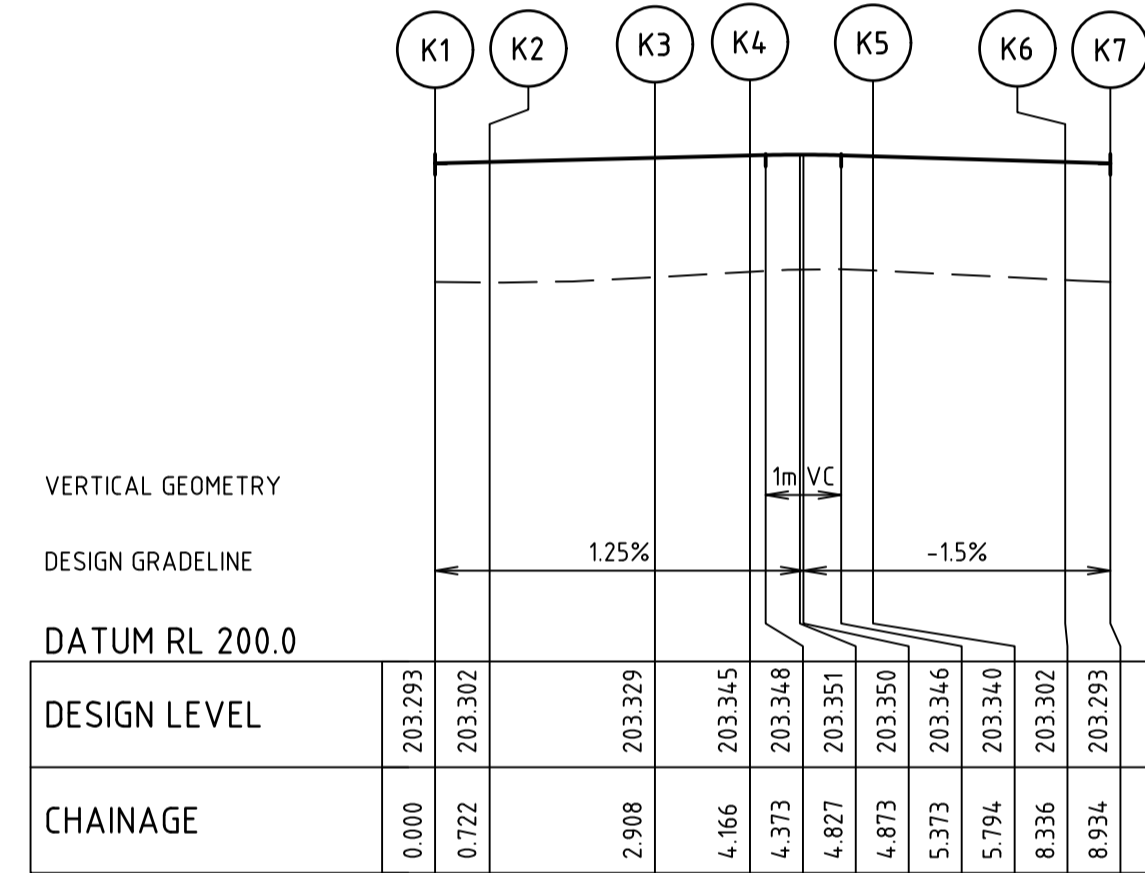


ALIGNMENT J
H 1:100 SCALE @ A1
V 1:50

ALIGNMENT J

POINT NO	EASTING	NORTHING	RL	CHAINAGE
J1	264582.358	5922767.318	203.149	0.000
J2	264579.864	5922770.036	203.097	3.691
J3	264577.085	5922772.463	203.046	7.382
J4	264580.246	5922772.268	203.002	11.944
J5	264581.084	5922771.844	202.994	12.884
J6	264582.233	5922771.281	202.983	14.163
J7	264584.591	5922770.289	202.961	16.722
J8	264585.797	5922769.861	202.950	18.002
J9	264585.908	5922769.358	202.963	18.621
J10	264584.313	5922767.423	203.095	21.135
J11	264582.364	5922767.310	203.149	23.416

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
J1-J2	33.450	7.382	7.367	0.203	0.051
J2-J3	0.600	1.744	1.192	0.530	0.152
J3-J4	80.000	3.757	3.757	0.022	0.006
J4-J5	33.450	5.118	5.113	0.098	0.024
J5-J6	0.300	0.619	0.515	0.146	0.039
J6-J7	9.950	2.542	2.507	0.079	0.020
J7-J8	1.200	2.280	1.952	0.502	0.133

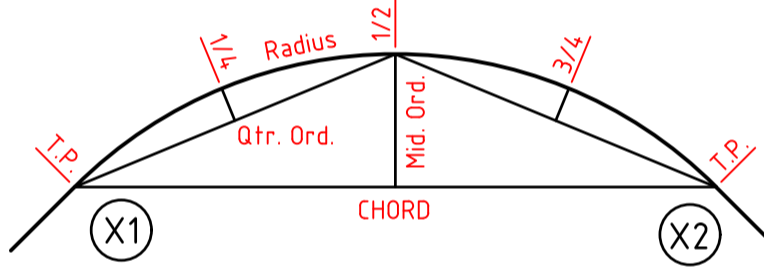


ALIGNMENT K
H 1:100 SCALE @ A1
V 1:50

ALIGNMENT K

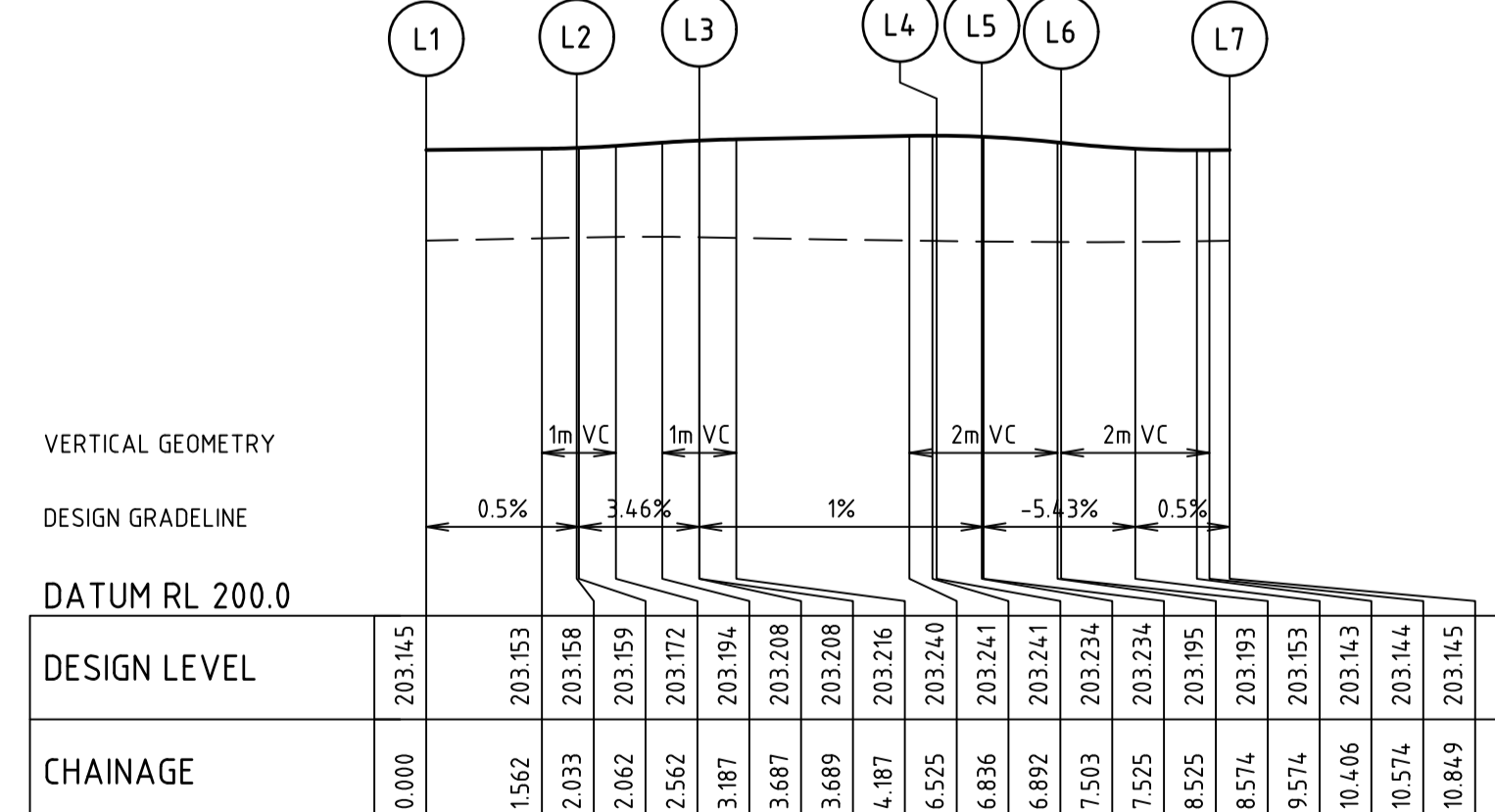
POINT NO	EASTING	NORTHING	RL	CHAINAGE
K1	264586.620	5922754.258	203.293	0.000
K2	264587.205	5922753.836	203.302	0.722
K3	264587.576	5922753.442	203.309	1.268
K4	264587.340	5922751.945	203.329	2.908
K5	264586.444	5922751.062	203.345	4.166
K6	264585.434	5922751.657	203.340	5.794
K7	264586.136	5922754.100	203.302	8.336
K8	264586.612	5922754.264	203.293	8.934

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
K1-K2	9.950	0.722	0.722	0.007	0.002
K2-K3	1.200	2.187	1.896	0.464	0.122
K3-K4	13.446	1.258	1.258	0.015	0.004
K4-K5	0.600	1.628	1.173	0.473	0.133
K5-K6	33.450	2.542	2.541	0.024	0.006
K6-K7	0.300	0.597	0.503	0.137	0.036



KERB RETURN SETOUT DETAIL

PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 24 of 35

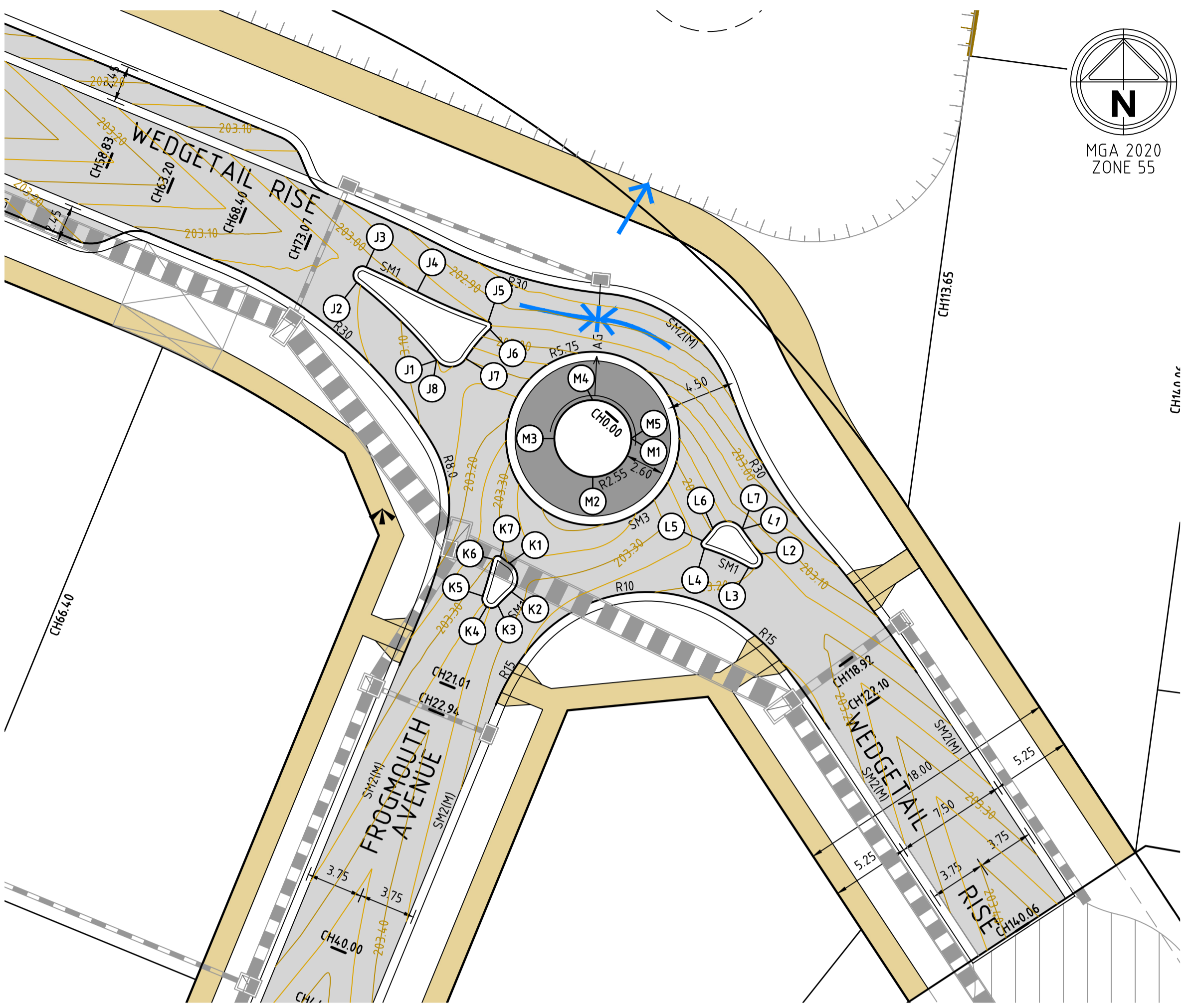


ALIGNMENT L
H 1:100 SCALE @ A1
V 1:50

ALIGNMENT L

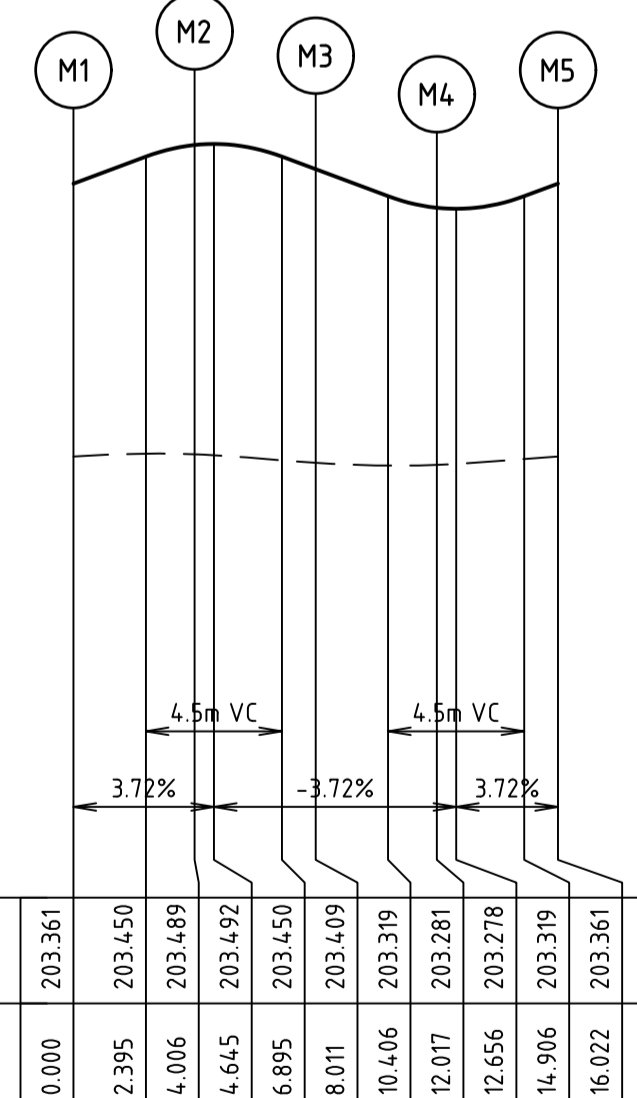
POINT NO	EASTING	NORTHING	RL	CHAINAGE
L1	264602.643	5922756.094	203.145	0.000
L2	264603.844	5922754.454	203.158	2.033
L3	264603.469	5922753.493	203.197	3.275
L4	264603.070	5922753.566	203.208	3.689
L5	264600.896	5922754.580	203.235	6.091
L6	264600.135	5922754.830	203.241	6.892
L7	264600.000	5922755.322	203.234	7.503
L8	264600.688	5922756.143	203.193	8.574
L9	264602.637	5922756.102	203.145	10.849

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
L1-L2	33.450	2.033	2.033	0.015	0.004
L2-L3	0.600	1.656	1.178	0.486	0.137
L3-L4	13.450	3.204	3.196	0.095	0.024
L4-L5	0.300	0.610	0.510	0.142	0.038
L5-L6	9.950	1.071	1.070	0.014	0.004
L6-L7	1.200	2.276	1.950	0.500	0.132



SETOUT DETAIL PLAN
INTERSECTION OF WEDGETAIL RISE & FROGMOUTH AVENUE

H 1:250 SCALE @ A1



ALIGNMENT M

ALIGNMENT M

POINT NO	EASTING	NORTHING	RL	CHAINAGE
M1	264595.278	5922762.113	203.361	0.000
M2	264592.728	5922759.563	203.489	4.006
M3	264590.372	5922761.137	203.446	7.010
M4	264590.178	5922762.113	203.409	8.011
M5	264590.925	5922763.916	203.334	10.014
M6	264592.728	5922764.663	203.281	12.017
M7	264593.704	5922764.469	203.279	13.018
M8	264595.278	5922762.113	203.361	16.022

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
M1-M2	2.550	4.006	3.606	0.747	0.194
M2-M3	2.550	4.006	3.606	0.747	0.194
M3-M4	2.550	4.006	3.606	0.747	0.194
M4-M5	2.550	4.006	3.606	0.747	0.194

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 07 September 2022

file name: 308978CR506.dwg, location: c:\pwworking\spire\projects\308978\308978.dwg, plot date: 07/09/2022 2:09 PM, Sheet 24 of 35, Sheets

Rev	Description	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22
Rev	Amendments	Approved	Date

AS SHOWN



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Designed
M.RULE
Authorised
C.CLARKE

Checked
B.IBBS
Date
SEPTEMBER 2022

EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
INTERSECTION & SETOUT DETAILS
WEDGETAIL RISE & FROGMOUTH AVENUE
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY
Drg No 308978CR506
Rev D



**SETOUT POINTS
BASIN TOE (BT)**

Point No	Easting	Northing	RL
BT1	264540-839	5922819-304	201-030
BT2	264541-776	5922824-988	201-030
BT3	264545-926	5922830-624	201-030
BT4	264552-616	5922845-157	201-030
BT5	264556-701	5922853-168	201-030
BT6	264561-233	5922859-758	201-030
BT7	264564-999	5922865-643	201-030
BT8	264566-539	5922872-424	201-030
BT9	264566-185	5922876-400	201-030
BT10	264565-645	5922879-236	201-030
BT11	264566-541	5922881-987	200-730
BT12	264569-328	5922884-597	200-730
BT13	264605-743	5922865-317	201-201
BT14	264575-700	5922883-026	201-030
BT15	264579-235	5922881-179	201-030
BT16	264582-970	5922879-740	201-030
BT17	264598-357	5922876-051	201-148
BT18	264603-954	5922873-889	201-168
BT19	264606-953	5922869-105	201-188
BT20	264602-101	5922859-892	201-223
BT21	264598-336	5922854-253	201-246
BT22	264595-975	5922848-086	201-268
BT23	264594-967	5922842-212	201-288
BT24	264595-463	5922838-246	201-301
BT25	264596-682	5922792-339	201-328
BT26	264598-965	5922822-697	201-355
BT27	264601-930	5922817-489	201-375
BT28	264605-276	5922808-068	201-408
BT29	264605-445	5922794-234	201-455
BT30	264604-021	5922790-609	201-460
BT31	264600-430	5922789-104	201-440
BT32	264595-766	5922792-339	201-410
BT33	264595-241	5922797-248	201-385
BT34	264594-507	5922810-608	201-318
BT35	264592-479	5922815-746	201-290
BT36	264585-915	5922818-877	201-253
BT37	264579-227	5922818-088	201-219
BT38	264567-836	5922815-198	201-160
BT39	264560-726	5922813-402	201-123
BT40	264550-196	5922813-889	201-070
BT41	264543-141	5922817-602	201-030

**SETOUT POINTS
EXTENDED DETENTION DEPTH (EDD)**

Point No	Easting	Northing	RL
EDD1	264587-060	5922876-955	201-030
EDD2	264589-488	5922871-566	201-030
EDD3	264589-184	5922867-604	201-030
EDD4	264587-361	5922864-073	201-030
EDD5	264585-085	5922861-163	201-030
EDD6	264583-983	5922858-106	201-030
EDD7	264584-970	5922854-258	201-030
EDD8	264585-780	5922850-364	201-030
EDD9	264584-835	5922846-003	201-030
EDD10	264578-568	5922840-643	201-030
EDD11	264567-872	5922838-076	201-030
EDD12	264562-225	5922836-114	201-030
EDD13	264558-881	5922831-664	201-030
EDD14	264553-299	5922826-851	201-030
EDD15	264548-093	5922819-824	201-030

**SETOUT POINTS
SED POND BASE (SPB)**

Point No	Easting	Northing	RL
SPB1	264543-062	5922821-012	200-360
SPB2	264549-013	5922829-049	200-310
SPB3	264555-559	5922837-889	200-255
SPB4	264559-724	5922843-515	199-865
SPB5	264561-687	5922846-992	199-640
SPB6	264565-437	5922852-895	199-640
SPB7	264569-335	5922858-390	199-640
SPB8	264572-454	5922864-367	199-640
SPB9	264573-745	5922869-702	199-640
SPB10	264573-940	5922872-411	199-640
SPB11	264574-749	5922873-904	199-640
SPB12	264576-659	5922874-242	199-640
SPB13	264580-499	5922872-762	199-640
SPB14	264582-113	5922870-849	199-640
SPB15	264581-612	5922868-734	199-640
SPB16	264579-257	5922865-723	199-640
SPB17	264576-639	5922859-173	199-640
SPB18	264577-302	5922853-757	199-640
SPB19	264578-290	5922850-925	199-640
SPB20	264576-384	5922847-718	199-640
SPB21	264570-704	5922846-361	199-640
SPB22	264565-517	5922845-122	199-640
SPB23	264561-024	5922842-495	199-865
SPB24	264556-722	5922837-186	200-255
SPB25	264550-175	5922828-347	200-310
SPB26	264544-223	5922820-311	200-360

**SETOUT POINTS
INTERIM TOP OF BASIN (ITB)**

Point No	Easting	Northing	RL
ITB1	264564-233	5922902-368	201-625
ITB2	264571-048	5922893-859	201-731
ITB3	264573-090	5922892-637	201-853
ITB4	264585-088	5922891-048	202-556
ITB5	264597-267	5922894-625	205-586
ITB6	264609-510	5922895-615	204-808
ITB7	264616-590	5922894-780	205-509
ITB8	264621-534	5922894-967	205-983
ITB9	264628-925	5922893-754	206-616
ITB10	264636-611	5922889-721	207-257
ITB11	264641-103	5922883-855	207-559
ITB12	264644-184	5922872-903	207-681
ITB13	264637-463	5922860-987	207-441
ITB14	264630-470	5922852-660	206-530
ITB15	264622-884	5922845-558	205-655
ITB16	264614-189	5922836-704	204-522
ITB17	264615-213	5922829-753	204-614
ITB18	264620-252	5922822-598	204-983
ITB19	264621-219	5922816-076	204-972
ITB20	264620-475	5922804-872	204-710
ITB21	264617-694	5922787-492	204-070

**SETOUT POINTS
FOOTPATH BERM (FPB)**

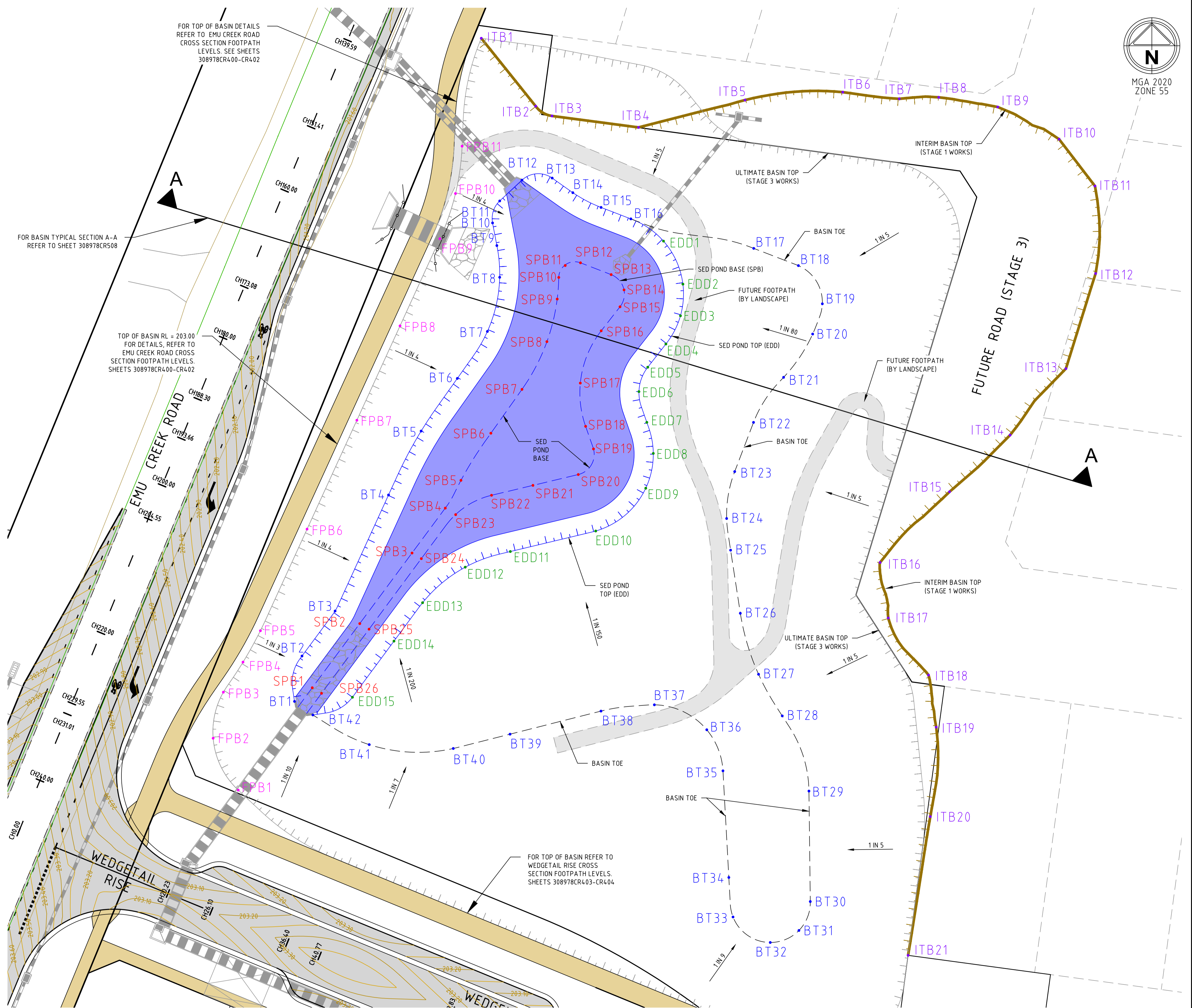
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FPB1	264533-789	5922808-191	202-900
FPB2	264530-647	5922814-886	202-900
FPB3	264531-929	5922820-456	202-900
FPB4	264534-389	5922824-222	202-900
FPB5	264536-570	5922828-157	202-900
FPB6	264542-412	5922840-879	202-900
FPB7	264548-651	5922854-520	202-900
FPB8	264554-059	5922866-342	202-900
FPB9	264559-050	5922877-254	202-899
FPB10	264561-004	5922882-918	202-789
FPB11	264561-832	5922888-851	202-517

**PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME**

**PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017**

Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo

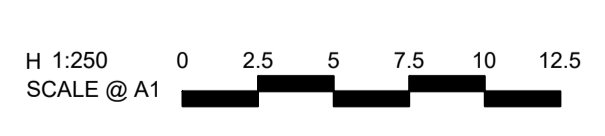
Date: 8 September 2022 Page 25 of 35



**GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS**

APPROVED BY: Peter Brasier

DATE: 07 September 2022



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Designed
M.RULE

Checked
B.IBBS

Authorised
C.CLARKE

Date
SEPTEMBER 2022

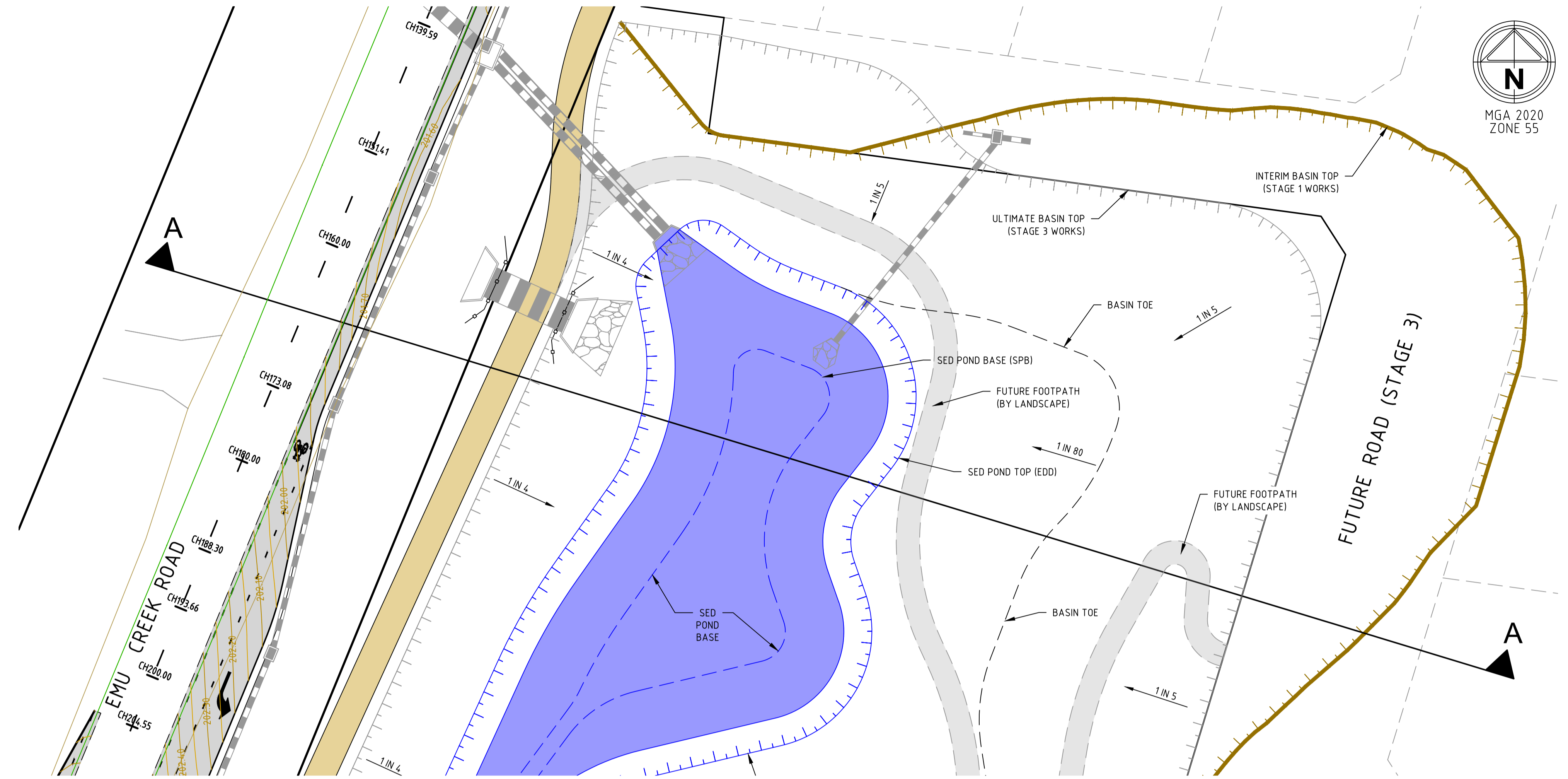
**EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
INTERSECTION & SETOUT DETAILS**

BASIN SETOUT
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No **308978CR507** Rev **D**

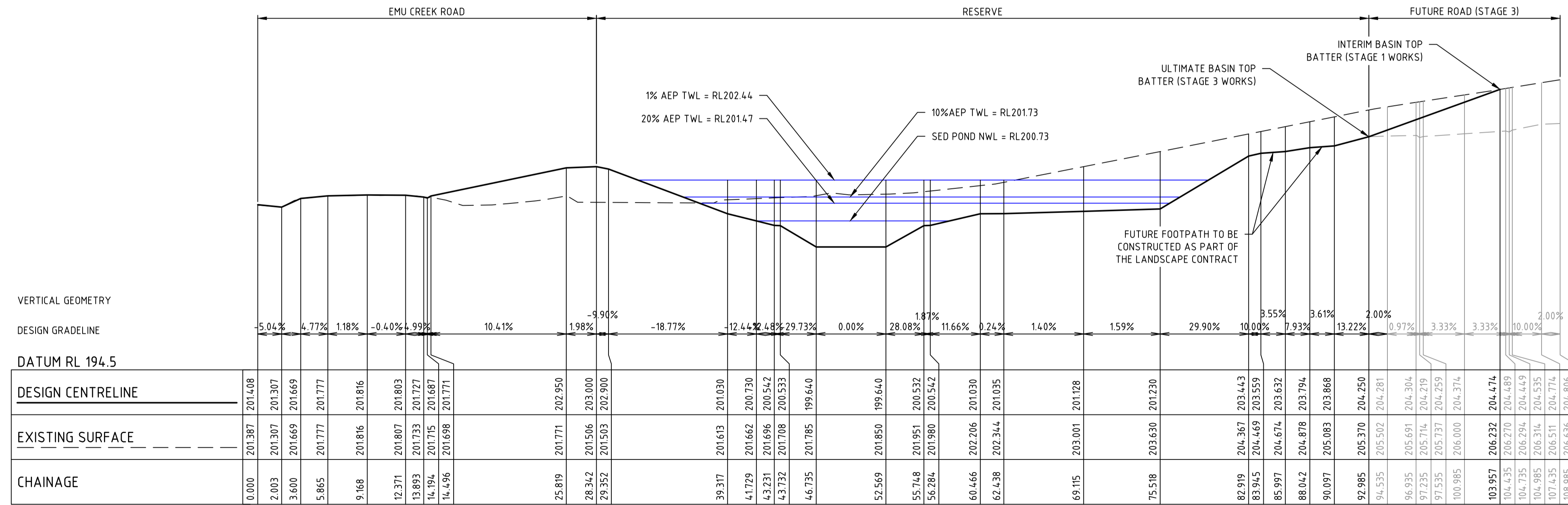
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PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 26 of 35



BASIN PLAN VIEW
TYPICAL SECTION A-A

H 1:250
SCALE @ A1



SECTION A-A
H 1:250
SCALE @ A1
V 1:125

file name: 308978CR508.dwg, location: name: CR508, plotted by: Matthew Rule, file location: \\spire.com.au\shared\data\308978\01\A\A0.dwg, date: 07/09/2022 2:09 PM, Sheet 26 of 35 Sheets

AS SHOWN



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EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
INTERSECTION & SETOUT DETAILS
BASIN TYPICAL SECTION A-A
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No 308978CR508 Rev D

Rev	Amendments	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22



PM20
 E: 264299.925
 N: 5922265.068
 RL: 210.205

SPIKE
 E: 264414.964
 N: 5922593.363
 RL: 210.061

SPIKE
 E: 264538.885
 N: 5922866.498
 RL: 201.772

SPIKE
 E: 264527.336
 N: 5922450.478
 RL: 211.917

STEEL PICKET
 E: 264572.823
 N: 5922574.952
 RL: 207.356

STEEL PICKET
 E: 264673.474
 N: 5922906.568
 RL: 207.800

SPIKE
 E: 264717.132
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 RL: 208.644

SPIKE
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 RL: 210.896

**PLANNING AND ENVIRONMENT ACT 1987
 GREATER BENDIGO PLANNING SCHEME**
 PLAN REFERRED TO IN PLANNING PERMIT
 NO: DS/337/2017
 Delegated Officer: Peter O'Brien
 For and on behalf of the City of Greater Bendigo
 Date: 8 September 2022 Page 27 of 35

**GREATER BENDIGO CITY COUNCIL
 ENGINEERING PLANS**
 APPROVED BY: Peter Brasier
 DATE: 07 September 2022

BAKERS LANE

EMU CREEK ROAD

FROGMOUTH AVENUE

WEDGETAIL RISE

EMU CREEK ROAD

WEDGETAIL RISE

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Rev	Amendments	Approved	Date
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22
B	TENDER ISSUE	M.R	22-07-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22



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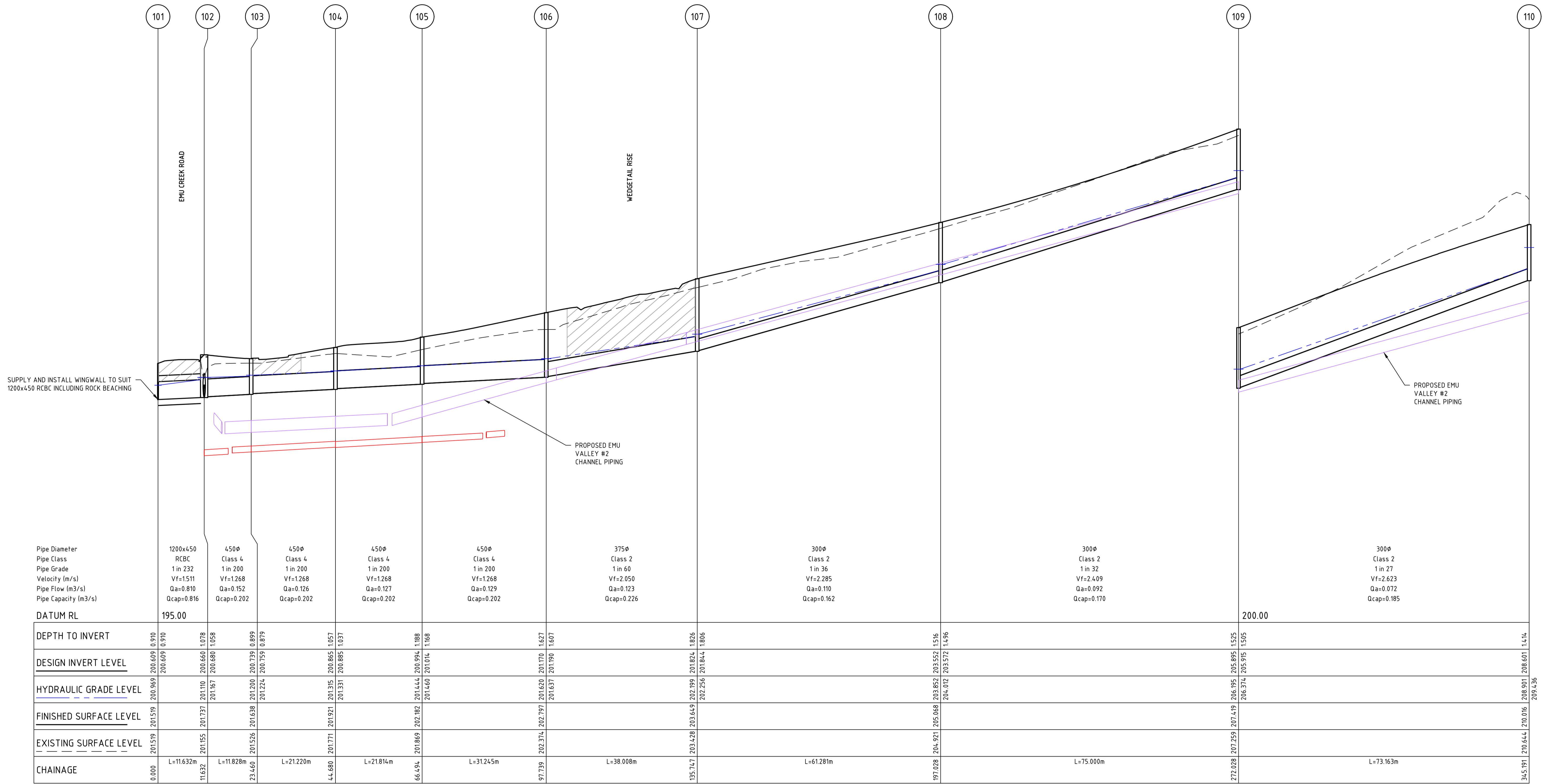
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 Date
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**EMU RISE ESTATE - STAGE 1
 29 EMU CREEK ROAD, STRATHFIELDSAYE
 INTERSECTION & SETOUT DETAILS**
CONTROL DATA
 CITY OF GREATER BENDIGO (PP - DS/337/2017)
 EMU CREEK CONSTRUCTIONS PTY LTD
PRELIMINARY Drg No: 308978CR509 Rev: D

 CRUSHED ROCK BACKFILL

PLANNING AND ENVIRONMENT ACT 1987
 GREATER BENDIGO PLANNING SCHEME
 PLAN REFERRED TO IN PLANNING PERMIT
 NO: DS/337/2017
 Delegated Officer: Peter O'Brien
 For and on behalf of the City of Greater Bendigo
 Date: 8 September 2022 Page 28 of 35

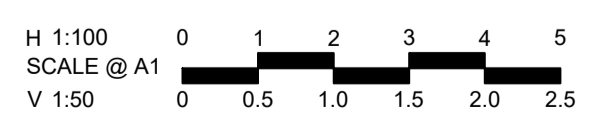
GREATER BENDIGO CITY COUNCIL
 ENGINEERING PLANS
 APPROVED BY: Peter Brasier
 DATE: 07 September 2022



	101	102	103	104	105	106	107	108	109	110	
Pipe Diameter	1200x450	450φ	450φ	450φ	450φ	375φ	300φ	300φ	300φ	300φ	
Pipe Class	RCBC	Class 4	Class 4	Class 4	Class 4	Class 2	Class 2	Class 2	Class 2	Class 2	
Pipe Grade	1 in 232	1 in 200	1 in 200	1 in 200	1 in 200	1 in 60	1 in 36	1 in 32	1 in 27	1 in 23	
Velocity (m/s)	Vf=1.511	Vf=1.268	Vf=1.268	Vf=1.268	Vf=1.268	Vf=2.050	Vf=2.285	Vf=2.409	Vf=2.623	Vf=2.872	
Pipe Flow (m ³ /s)	Qa=0.810	Qa=0.152	Qa=0.126	Qa=0.127	Qa=0.129	Qa=0.123	Qa=0.110	Qa=0.092	Qa=0.072	Qa=0.072	
Pipe Capacity (m ³ /s)	Qcap=0.816	Qcap=0.202	Qcap=0.202	Qcap=0.202	Qcap=0.202	Qcap=0.226	Qcap=0.162	Qcap=0.170	Qcap=0.185	Qcap=0.185	
DATUM RL	195.00									200.00	
DEPTH TO INVERT	200.609 0.910	200.660 1.078	200.680 1.058	200.739 0.899	200.759 0.879	200.865 1.057	200.885 1.037	201.620 201.170 1.627	201.637 201.190 1.607	201.824 1.826	201.844 1.806
DESIGN INVERT LEVEL	200.609	200.660	200.680	200.739	200.759	200.865	200.885	201.620	201.637	201.824	201.844
HYDRAULIC GRADE LEVEL	200.969	201.110	201.167	201.200	201.224	201.315	201.331	202.199	202.256	203.552	203.572
FINISHED SURFACE LEVEL	201.519	201.737	201.737	201.638	201.526	201.771	201.921	203.649	203.649	205.068	205.068
EXISTING SURFACE LEVEL	201.519	201.155	201.155	201.526	201.526	201.771	201.921	203.428	203.428	205.068	205.068
CHAINAGE	0.000	L=11.632m	L=11.828m	L=21.220m	L=21.220m	L=21.814m	L=31.245m	L=38.008m	L=61.281m	L=75.000m	L=73.163m

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Rev	Amendments	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22



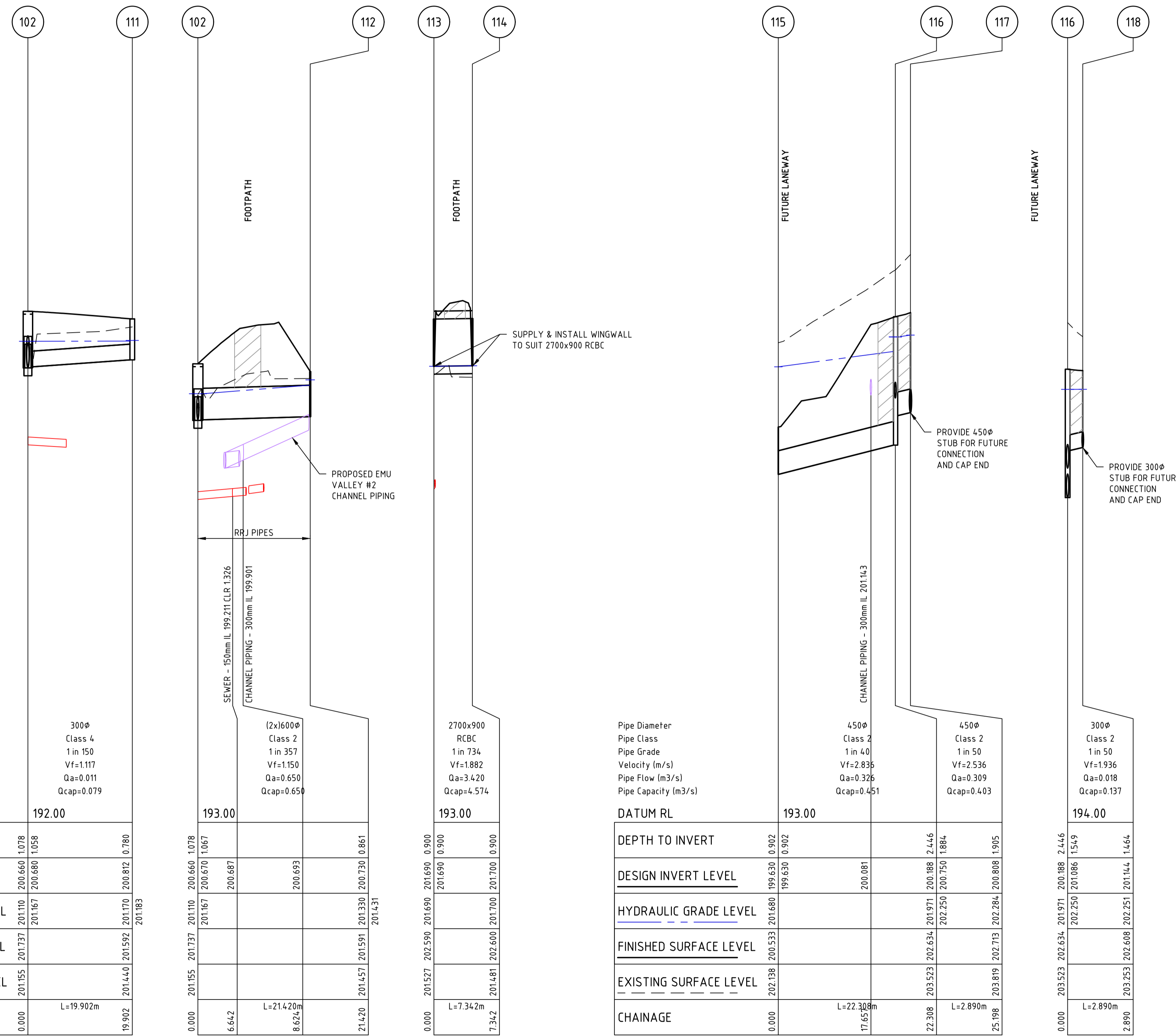
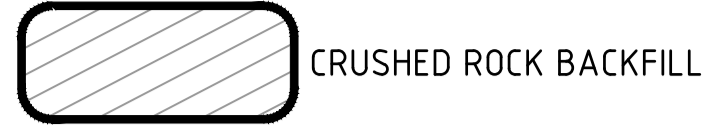
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EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
DRAINAGE LONG SECTIONS
SHEET 1
 CITY OF GREATER BENDIGO (PP - DS/337/2017)
 EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No: 308978CR600 Rev: D



Pipe Diameter	300φ
Pipe Class	Class 4
Pipe Grade	1 in 150
Velocity (m/s)	Vf=1.117
Pipe Flow (m3/s)	Qa=0.011
Pipe Capacity (m3/s)	Qcap=0.079
DATUM RL	192.00
DEPTH TO INVERT	201.110 200.660 1.078 201.167 200.680 1.058
DESIGN INVERT LEVEL	201.167 200.680 1.058
HYDRAULIC GRADE LEVEL	201.167 200.680 1.058
FINISHED SURFACE LEVEL	201.155 201.737 201.110 200.660 1.078 201.167 200.680 1.058
EXISTING SURFACE LEVEL	201.155 201.737 201.110 200.660 1.078 201.167 200.680 1.058
CHAINAGE	0.000 L=19.902m 19.902 201.440 201.592 201.170 200.812 0.780 201.183

Pipe Diameter	(2x)600φ
Pipe Class	Class 2
Pipe Grade	1 in 357
Velocity (m/s)	Vf=1.150
Pipe Flow (m3/s)	Qa=0.650
Pipe Capacity (m3/s)	Qcap=0.650
DATUM RL	193.00
DEPTH TO INVERT	201.110 200.660 1.078 201.167 200.670 1.067 200.687
DESIGN INVERT LEVEL	200.687
HYDRAULIC GRADE LEVEL	200.687
FINISHED SURFACE LEVEL	201.155 201.737 201.110 200.660 1.078 201.167 200.680 1.058
EXISTING SURFACE LEVEL	201.155 201.737 201.110 200.660 1.078 201.167 200.680 1.058
CHAINAGE	0.000 L=21.420m 6.642 21.420 201.457 201.591 201.330 200.730 0.861 201.431

Pipe Diameter	2700x900
Pipe Class	RCBC
Pipe Grade	1 in 734
Velocity (m/s)	Vf=1.882
Pipe Flow (m3/s)	Qa=3.420
Pipe Capacity (m3/s)	Qcap=4.574
DATUM RL	193.00
DEPTH TO INVERT	201.527 202.590 201.690 0.900 201.690 0.900
DESIGN INVERT LEVEL	201.690 0.900
HYDRAULIC GRADE LEVEL	201.690 0.900
FINISHED SURFACE LEVEL	201.527 202.590 201.690 0.900 201.690 0.900
EXISTING SURFACE LEVEL	201.527 202.590 201.690 0.900 201.690 0.900
CHAINAGE	0.000 L=7.342m 7.342 201.481 202.600 201.700 0.900

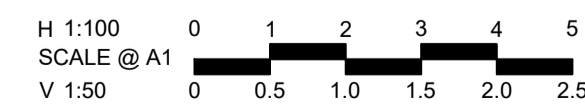
Pipe Diameter	450φ
Pipe Class	Class 2
Pipe Grade	1 in 40
Velocity (m/s)	Vf=2.835
Pipe Flow (m3/s)	Qa=0.325
Pipe Capacity (m3/s)	Qcap=0.451
DATUM RL	193.00
DEPTH TO INVERT	202.138 202.533 201.680 0.902 199.630 0.902
DESIGN INVERT LEVEL	199.630 0.902
HYDRAULIC GRADE LEVEL	202.138 202.533 201.680 0.902 199.630 0.902
FINISHED SURFACE LEVEL	202.138 202.533 202.634 201.971 200.188 2.446 202.250 200.750 1.884
EXISTING SURFACE LEVEL	202.138 202.533 202.634 201.971 200.188 2.446 202.250 200.750 1.884
CHAINAGE	0.000 L=22.308m 17.652 22.308 203.523 202.634 201.971 200.188 2.446 25.198

Pipe Diameter	300φ
Pipe Class	Class 2
Pipe Grade	1 in 50
Velocity (m/s)	Vf=1.936
Pipe Flow (m3/s)	Qa=0.018
Pipe Capacity (m3/s)	Qcap=0.137
DATUM RL	194.00
DEPTH TO INVERT	203.523 202.634 201.971 200.188 2.446 202.250 201.086 1.549
DESIGN INVERT LEVEL	202.250 201.086 1.549
HYDRAULIC GRADE LEVEL	202.250 201.086 1.549
FINISHED SURFACE LEVEL	203.523 202.634 201.971 200.188 2.446 202.250 201.086 1.549
EXISTING SURFACE LEVEL	203.523 202.634 201.971 200.188 2.446 202.250 201.086 1.549
CHAINAGE	0.000 L=2.890m 2.890 203.253 202.608 202.251 201.144 1.464

PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 29 of 35

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Rev	Amendments	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22



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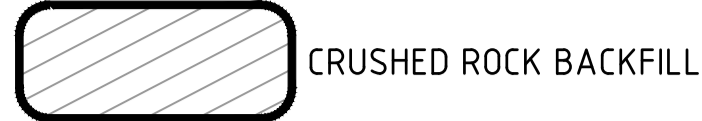


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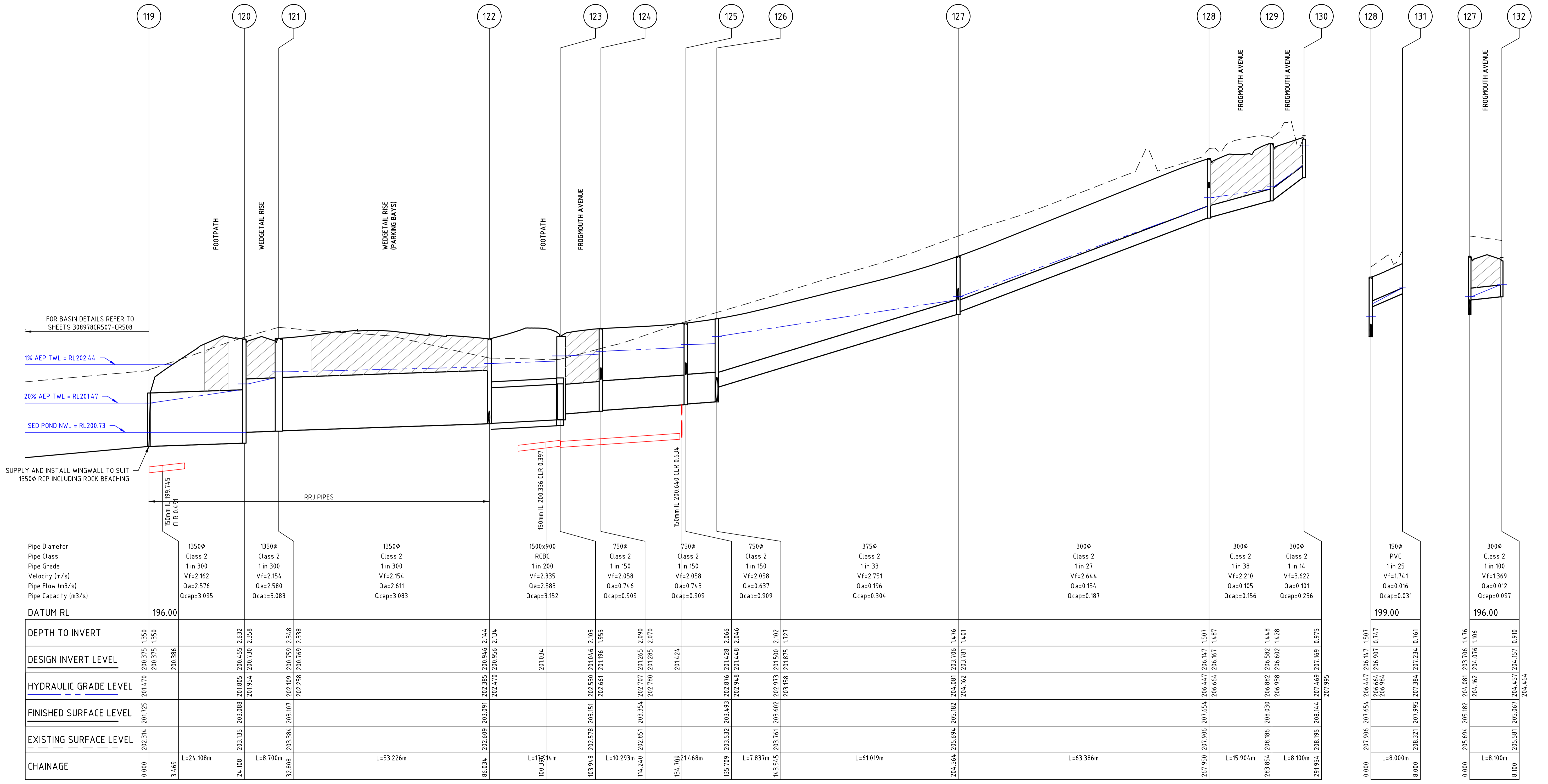
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Date
SEPTEMBER 2022

EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
DRAINAGE LONG SECTIONS
SHEET 2
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD
PRELIMINARY Drg No **308978CR601** Rev **D**

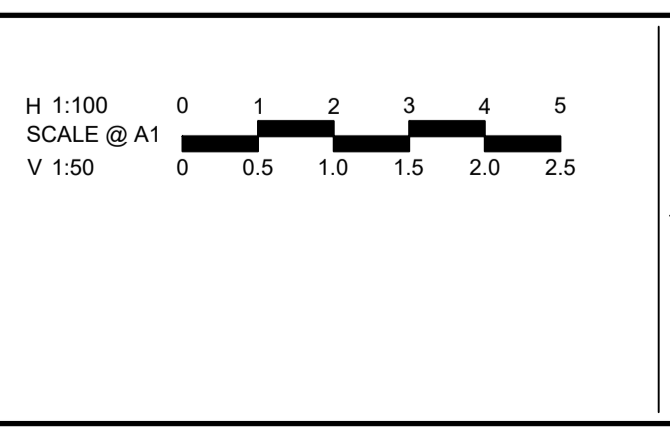


PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 30 of 35



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Rev	Amendments	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22



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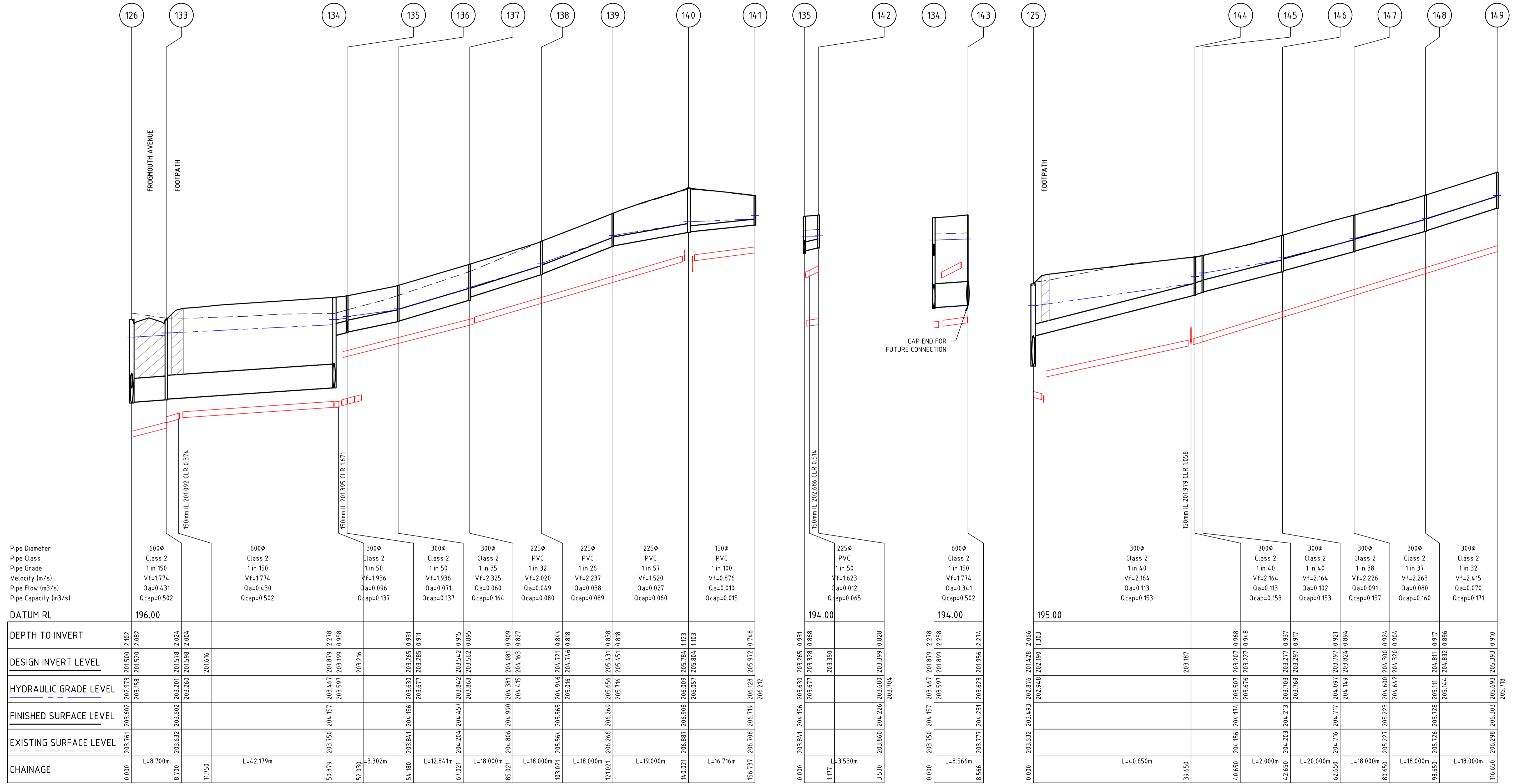
EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
DRAINAGE LONG SECTIONS
SHEET 3
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No **308978CR602** Rev **D**

CRUSHED ROCK BACKFILL

PLANNING AND ENVIRONMENT ACT 1987
 GREATER BENDIGO PLANNING SCHEME
 PLAN REFERRED TO IN PLANNING PERMIT
 NO: DS/337/2017
 Delegated Officer: Peter O'Brien
 For and on behalf of the City of Greater Bendigo
 Date: 8 September 2022 Page 31 of 35

GREATER BENDIGO CITY COUNCIL
 ENGINEERING PLANS
 APPROVED BY: Peter Brasier
 DATE: 07 September 2022



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Pipe Diameter	600φ	600φ	300φ	300φ	300φ	300φ	225φ	225φ	225φ	150φ	225φ	225φ	600φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	
Pipe Class	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	PVC	PVC	PVC	PVC	PVC	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2		
Pipe Grade	1 in 150	1 in 150	1 in 50	1 in 50	1 in 35	1 in 32	1 in 26	1 in 57	1 in 100	1 in 50	1 in 50	1 in 150	1 in 40	1 in 40	1 in 40	1 in 38	1 in 37	1 in 32	1 in 32	1 in 32		
Velocity (m/s)	Vf=1.774	Vf=1.774	Vf=1.936	Vf=1.936	Vf=2.325	Vf=2.020	Vf=1.520	Vf=1.623	Vf=0.876	Vf=1.774	Vf=1.623	Vf=1.774	Vf=2.164	Vf=2.164	Vf=2.164	Vf=2.226	Vf=2.263	Vf=2.415	Vf=2.415	Vf=2.415		
Pipe Flow (m ³ /s)	Qa=0.431	Qa=0.430	Qa=0.096	Qa=0.096	Qa=0.060	Qa=0.049	Qa=0.038	Qa=0.027	Qa=0.010	Qa=0.012	Qa=0.012	Qa=0.341	Qa=0.113	Qa=0.113	Qa=0.102	Qa=0.091	Qa=0.080	Qa=0.070	Qa=0.070	Qa=0.070		
Pipe Capacity (m ³ /s)	Qcap=0.502	Qcap=0.502	Qcap=0.137	Qcap=0.137	Qcap=0.164	Qcap=0.080	Qcap=0.089	Qcap=0.060	Qcap=0.015	Qcap=0.065	Qcap=0.065	Qcap=0.502	Qcap=0.153	Qcap=0.153	Qcap=0.153	Qcap=0.157	Qcap=0.160	Qcap=0.171	Qcap=0.171	Qcap=0.171		
DATUM RL	196.00																					
DEPTH TO INVERT	2.102	2.082	2.278	2.278	2.278	2.278	2.278	2.278	2.278	2.278	2.278	2.278	2.278	2.278	2.278	2.278	2.278	2.278	2.278	2.278	2.278	
DESIGN INVERT LEVEL	201.500	201.520	201.679	201.679	201.679	201.679	201.679	201.679	201.679	201.679	201.679	201.679	201.679	201.679	201.679	201.679	201.679	201.679	201.679	201.679	201.679	
HYDRAULIC GRADE LEVEL	203.158	201.520	203.467	203.467	203.467	203.467	203.467	203.467	203.467	203.467	203.467	203.467	203.467	203.467	203.467	203.467	203.467	203.467	203.467	203.467	203.467	
FINISHED SURFACE LEVEL	203.761	203.602	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	
EXISTING SURFACE LEVEL	203.761	203.602	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	204.157	
CHAINAGE	L=8.700m		L=4.2.179m		L=12.841m		L=18.000m		L=18.000m		L=19.000m		L=8.566m		L=4.0.650m		L=2.000m		L=20.000m		L=18.000m	

H 1:100
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 V 1:50



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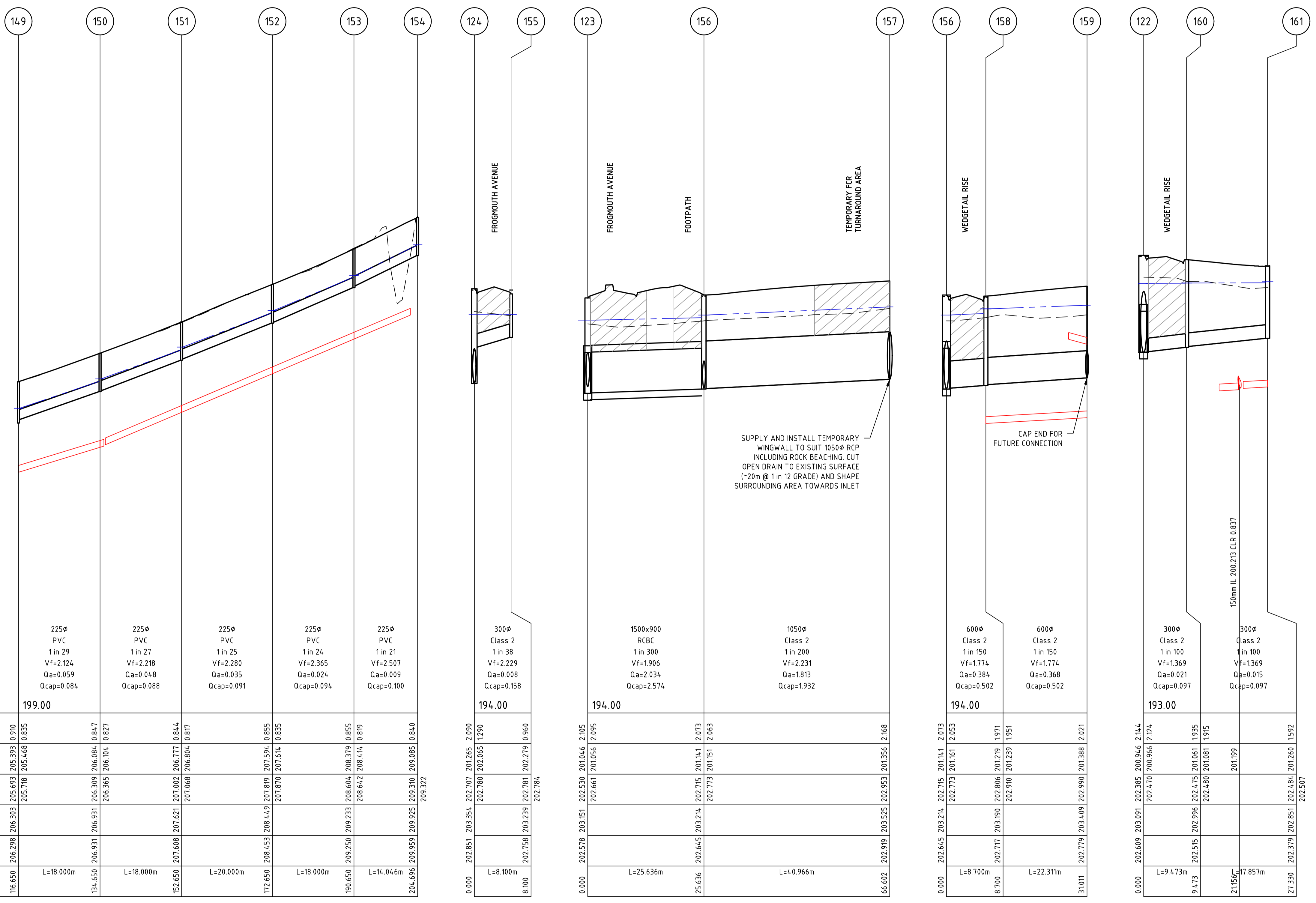
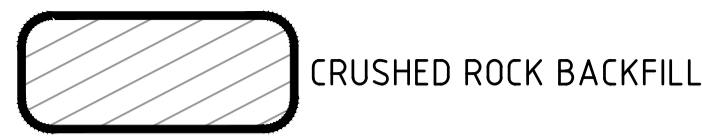
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 Date
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EMU RISE ESTATE - STAGE 1
 29 EMU CREEK ROAD, STRATHFIELDSAYE
 DRAINAGE LONG SECTIONS
 SHEET 4

CITY OF GREATER BENDIGO (PP - DS/337/2017)
 EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No
 308978CR603 Rev
D



Chainage	116.650	134.650	152.650	172.650	196.650	204.696
Pipe Diameter	225φ	225φ	225φ	225φ	225φ	225φ
Pipe Class	PVC	PVC	PVC	PVC	PVC	PVC
Pipe Grade	1 in 29	1 in 27	1 in 25	1 in 24	1 in 21	1 in 21
Velocity (m/s)	Vf=2.124	Vf=2.218	Vf=2.280	Vf=1.906	Vf=2.507	Vf=2.507
Pipe Flow (m3/s)	Qa=0.059	Qa=0.048	Qa=0.035	Qa=0.024	Qa=0.009	Qa=0.009
Pipe Capacity (m3/s)	Qcap=0.084	Qcap=0.088	Qcap=0.091	Qcap=0.094	Qcap=0.100	Qcap=0.100
DATUM RL	199.00					
DEPTH TO INVERT	0.910	0.835				
DESIGN INVERT LEVEL	205.393	206.084	206.777	207.594	208.379	209.085
HYDRAULIC GRADE LEVEL	205.718	206.365	207.002	207.810	208.642	209.507
FINISHED SURFACE LEVEL	206.303	206.931	207.621	208.449	209.310	209.925
EXISTING SURFACE LEVEL	206.298	206.931	207.608	208.453	209.310	209.959
CHAINAGE	L=18.000m	L=18.000m	L=20.000m	L=18.000m	L=14.046m	

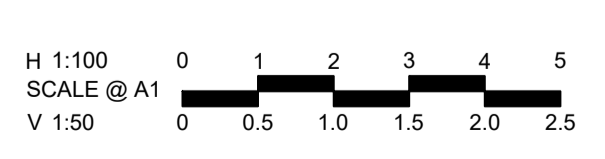
Chainage	124.000	125.530	156.602
Pipe Diameter	300φ	1500x900	1050φ
Pipe Class	Class 2	RCCB	Class 2
Pipe Grade	1 in 38	1 in 300	1 in 200
Velocity (m/s)	Vf=2.229	Vf=1.906	Vf=2.231
Pipe Flow (m3/s)	Qa=0.008	Qa=2.034	Qa=1.813
Pipe Capacity (m3/s)	Qcap=0.158	Qcap=2.574	Qcap=1.932
DATUM RL	194.00	194.00	194.00
DEPTH TO INVERT	2.090	2.095	2.168
DESIGN INVERT LEVEL	202.005	202.005	201.832
HYDRAULIC GRADE LEVEL	202.180	202.661	203.151
FINISHED SURFACE LEVEL	202.784	203.214	203.713
EXISTING SURFACE LEVEL	202.758	203.214	203.713
CHAINAGE	L=8.100m	L=25.636m	L=4.966m

Chainage	156.602	158.700	160.000	161.507
Pipe Diameter	600φ	600φ	300φ	300φ
Pipe Class	Class 2	Class 2	Class 2	Class 2
Pipe Grade	1 in 150	1 in 150	1 in 100	1 in 100
Velocity (m/s)	Vf=1.774	Vf=1.774	Vf=1.369	Vf=1.369
Pipe Flow (m3/s)	Qa=0.384	Qa=0.368	Qa=0.021	Qa=0.015
Pipe Capacity (m3/s)	Qcap=0.502	Qcap=0.502	Qcap=0.097	Qcap=0.097
DATUM RL	194.00	194.00	193.00	193.00
DEPTH TO INVERT	2.073	2.053	2.144	2.152
DESIGN INVERT LEVEL	201.927	201.947	200.856	200.848
HYDRAULIC GRADE LEVEL	202.112	202.606	203.195	203.689
FINISHED SURFACE LEVEL	202.717	203.190	203.786	204.280
EXISTING SURFACE LEVEL	202.717	203.190	203.786	204.280
CHAINAGE	L=8.700m	L=22.311m	L=9.473m	L=7.857m

PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 32 of 35

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Rev	Description	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C.	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C.	10-08-22
B	TENDER ISSUE	M.R.	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C.	14-04-22
Rev	Amendments	Approved	Date



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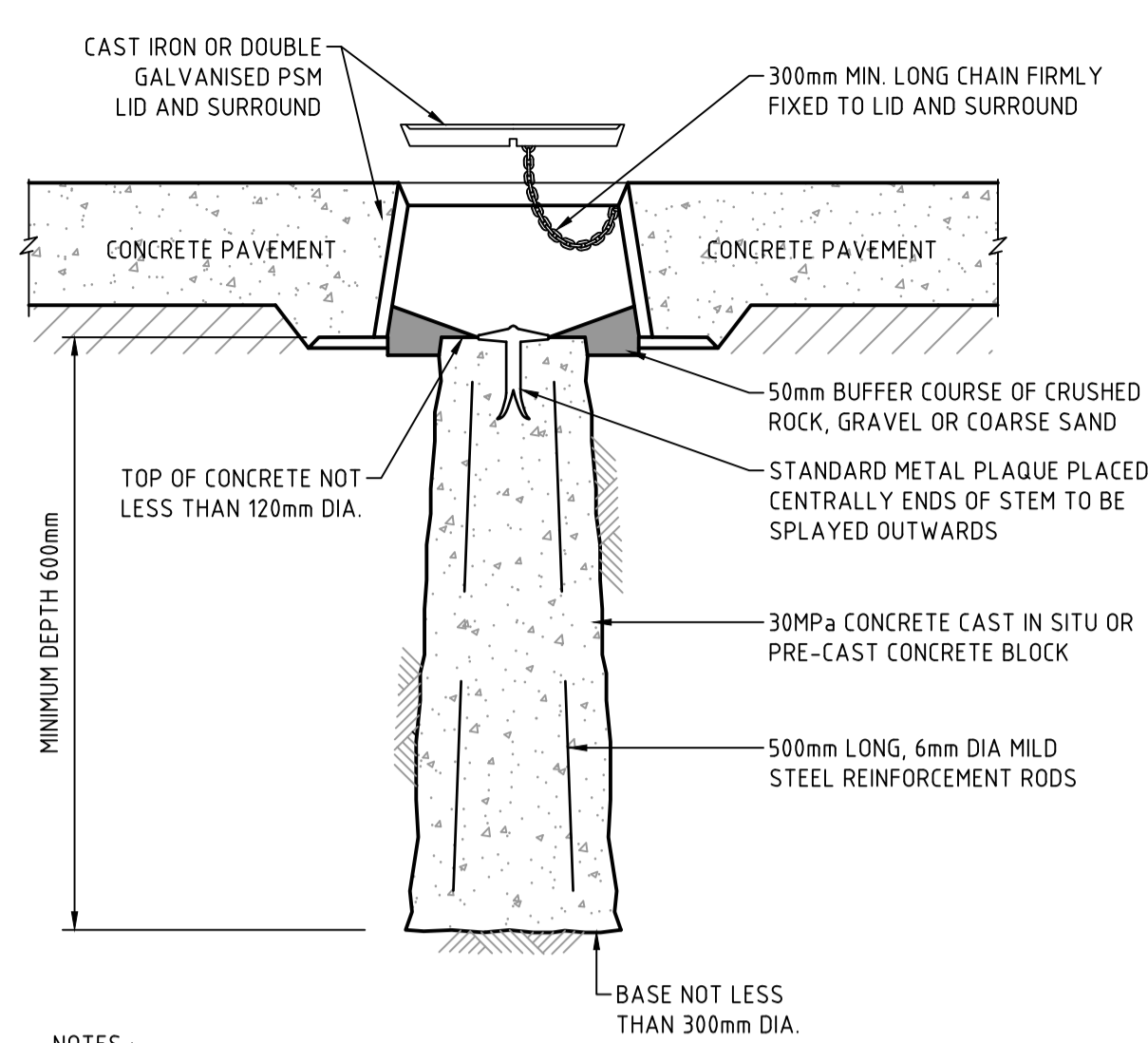


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Authorised C.CLARKE	Date SEPTEMBER 2022

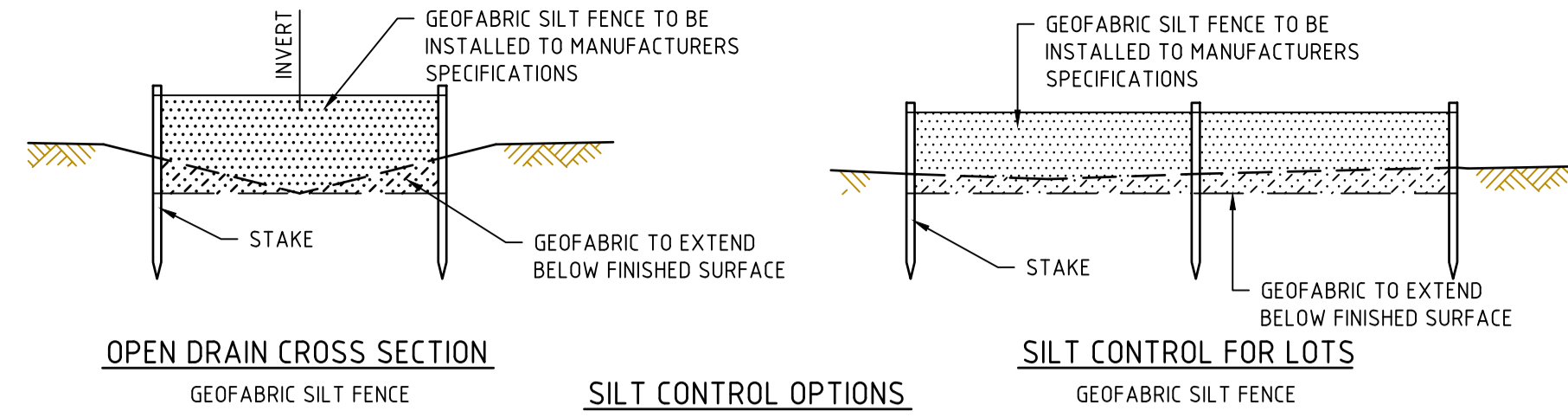
EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
DRAINAGE LONG SECTIONS
SHEET 5
CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No: 308978CR604 Rev: D



NOTES:
 CONCRETE BLOCK IS TO BE A MINIMUM 600mm DEEP
 METAL PLAQUE MUST PROTRUDE ABOVE SURFACE OF CONCRETE BLOCK.
 THE PSM BOX COVER IS NOT TO BE PHYSICALLY CONNECTED TO CONCRETE PSM BASE.

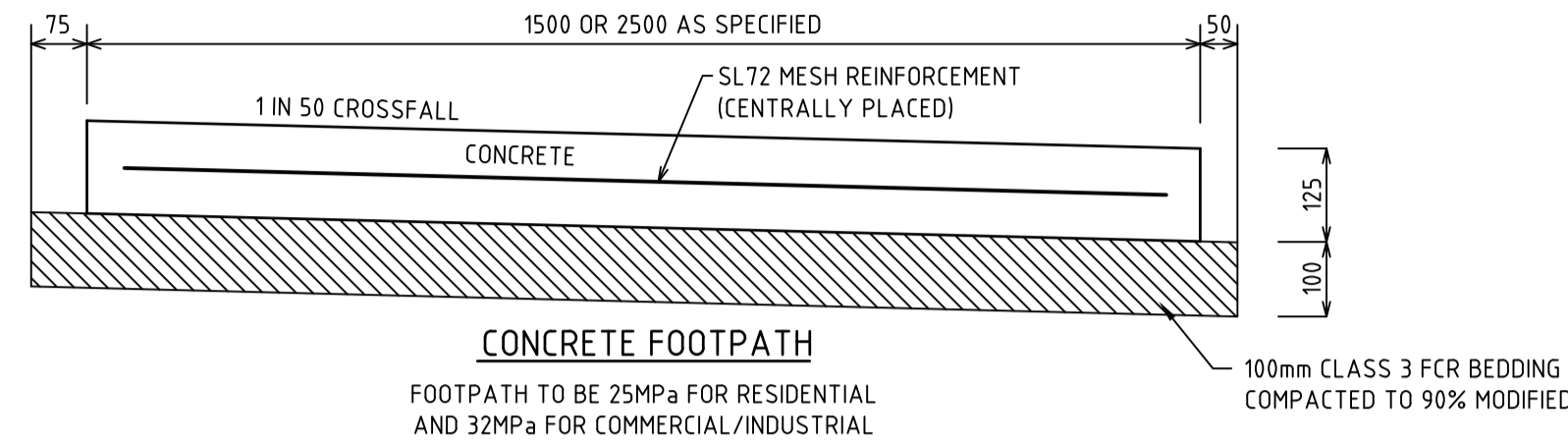
PERMANENT SURVEY MARK DETAIL
 (IN CONCRETE FOOTPATH)
 (NOT TO SCALE)



OPEN DRAIN CROSS SECTION

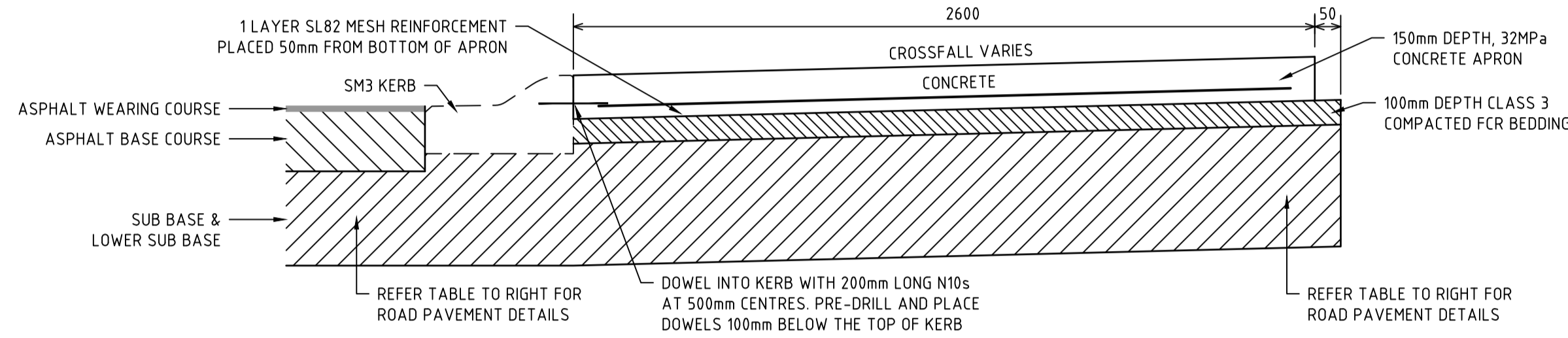
SILT CONTROL OPTIONS
 NOT TO SCALE

SILT CONTROL FOR LOTS



CONCRETE FOOTPATH

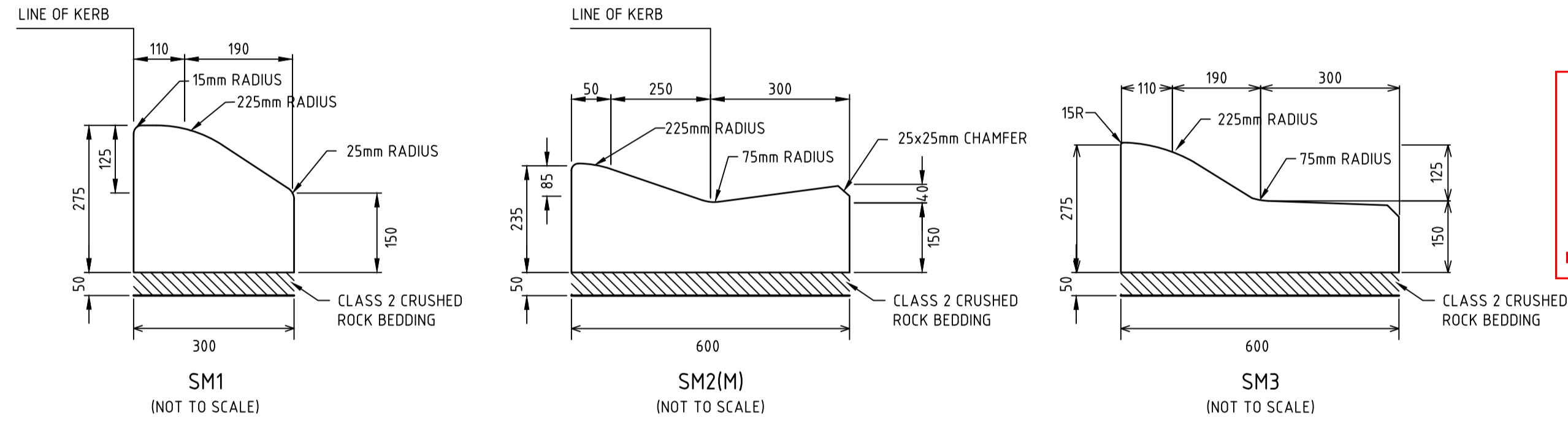
FOOTPATH TO BE 25MPa FOR RESIDENTIAL AND 32MPa FOR COMMERCIAL/INDUSTRIAL



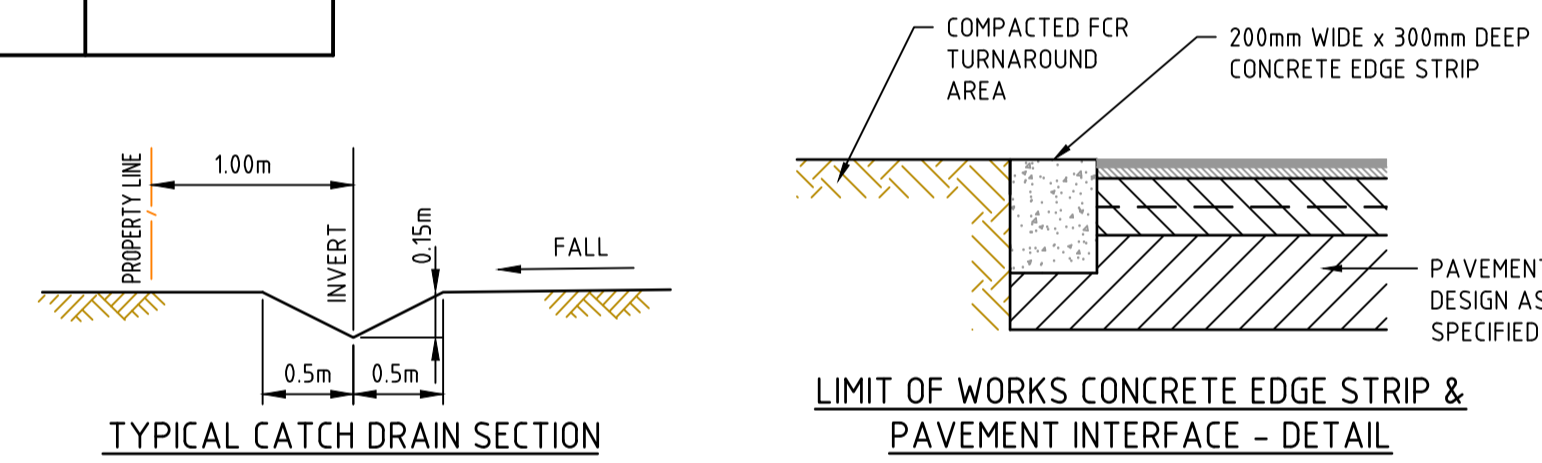
SECTION B-B

ROUNDABOUT/CONCRETE APRON DETAIL
 (NOT TO SCALE)

STANDARD KERB & CHANNEL PROFILES
 ALL DIMENSIONS IN mm



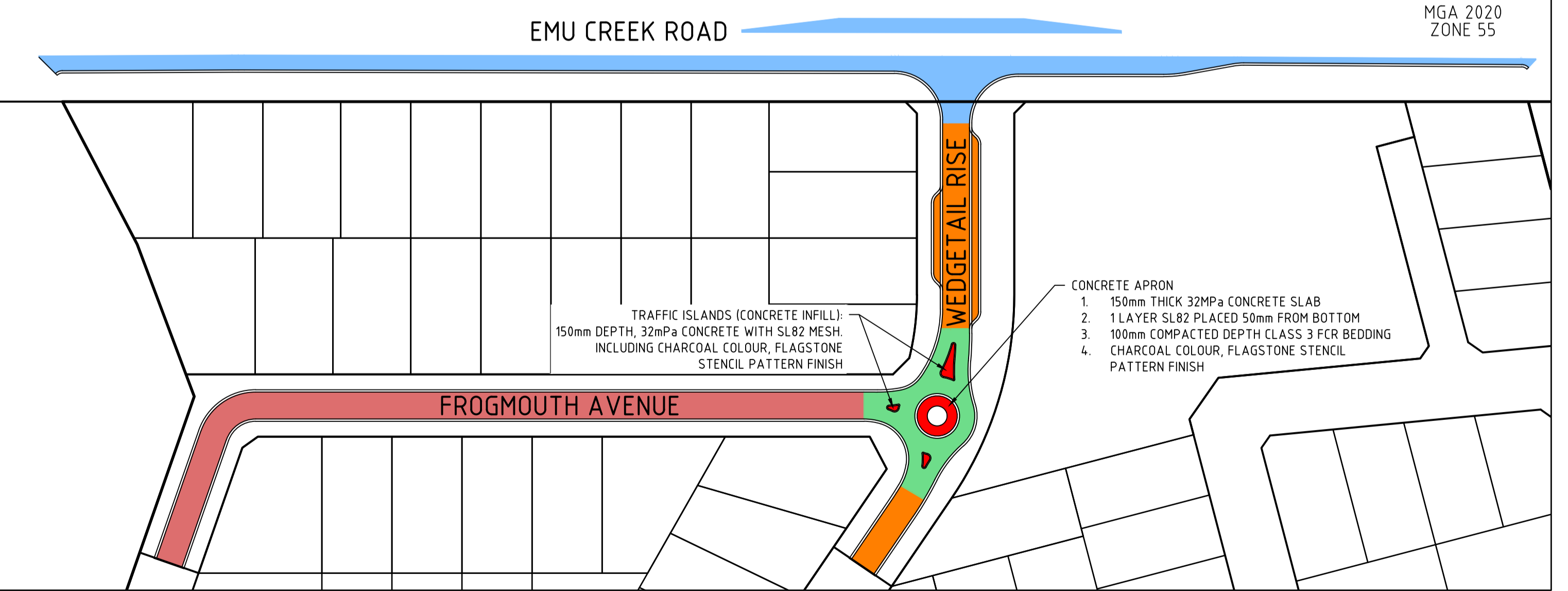
PLANNING AND ENVIRONMENT ACT 1987
 GREATER BENDIGO PLANNING SCHEME
 PLAN REFERRED TO IN PLANNING PERMIT
 NO: DS/337/2017
 Delegated Officer: Peter O'Brien
 For and on behalf of the City of Greater Bendigo
 Date: 8 September 2022 Page 34 of 35



TYPICAL CATCH DRAIN SECTION

LIMIT OF WORKS CONCRETE EDGE STRIP &
 PAVEMENT INTERFACE - DETAIL

PAVEMENT LEGEND



file name: 308978CR700.dwg; layout name: CPD100; sheet title: EMU Rise Estate - Stage 1 Pavement and Typical Details; sheet no: 34 of 35; date: 07/09/2022 2:10 PM; sheet 34 of 35; sheets

Rev	Description	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
B	TENDER ISSUE	M.R	22-07-22
A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22
	Amendments	Approved	Date

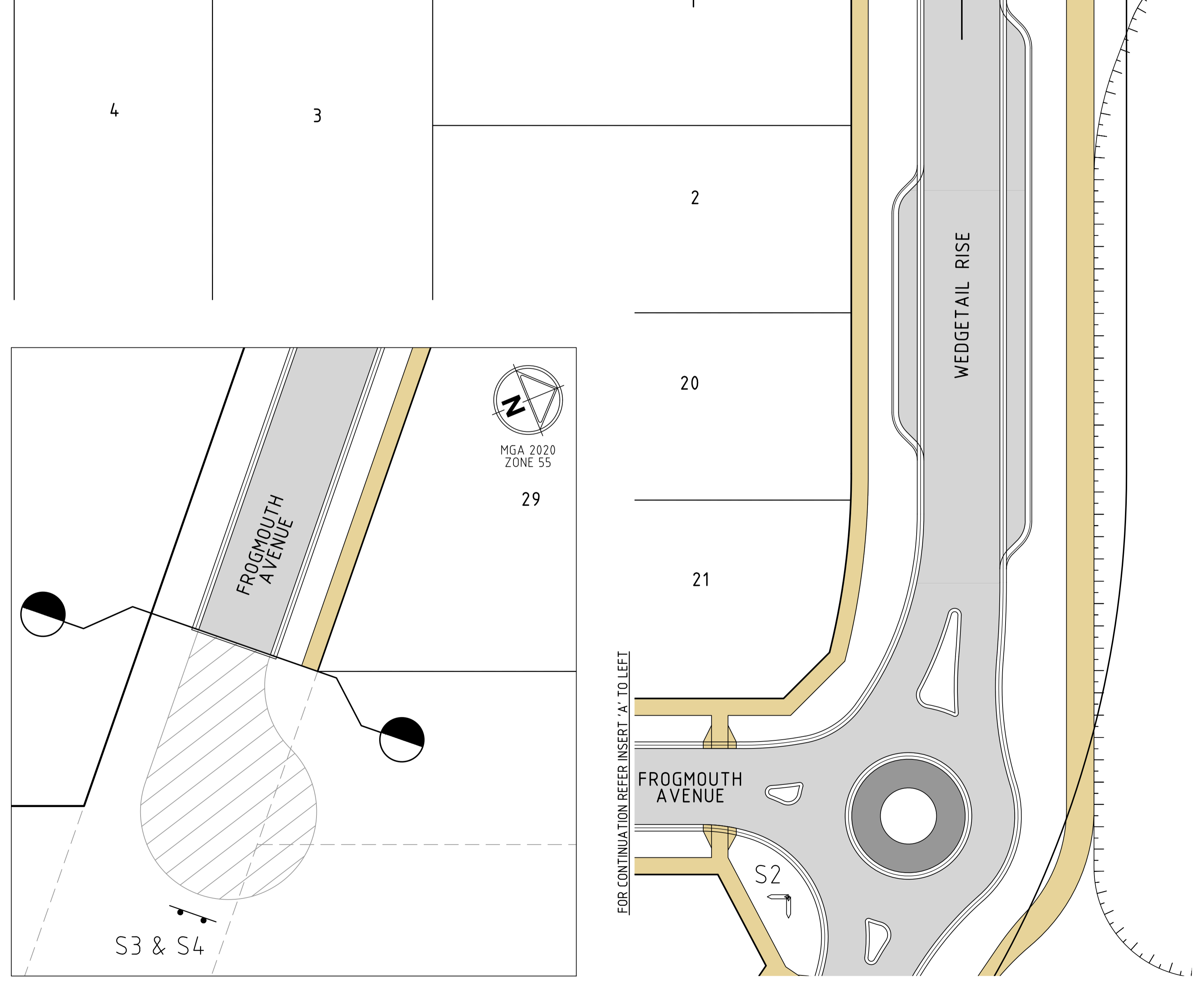
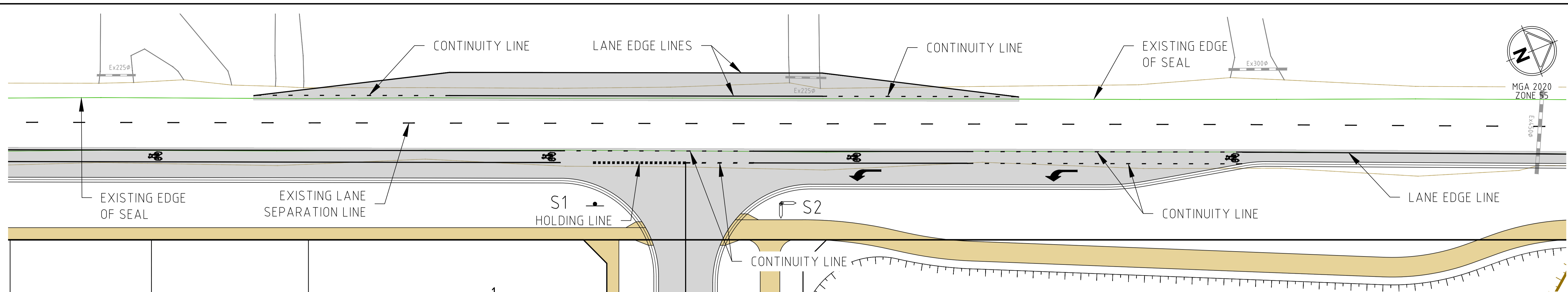
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 Checked
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 Date
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**EMU RISE ESTATE - STAGE 1
 29 EMU CREEK ROAD, STRATHFIELDSAYE
 PAVEMENT AND TYPICAL DETAILS**
 CITY OF GREATER BENDIGO (PP - DS/337/2017)
 EMU CREEK CONSTRUCTIONS PTY LTD
PRELIMINARY Drg No **308978CR700** Rev **D**



LEGEND - SIGNAGE

S1 R1-2A

S2 STREET NAME PLATES INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE

NOTES:

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.

S3 G9-20

S4 D4-5

LEGEND - LINEMARKING

HOLDING LINES

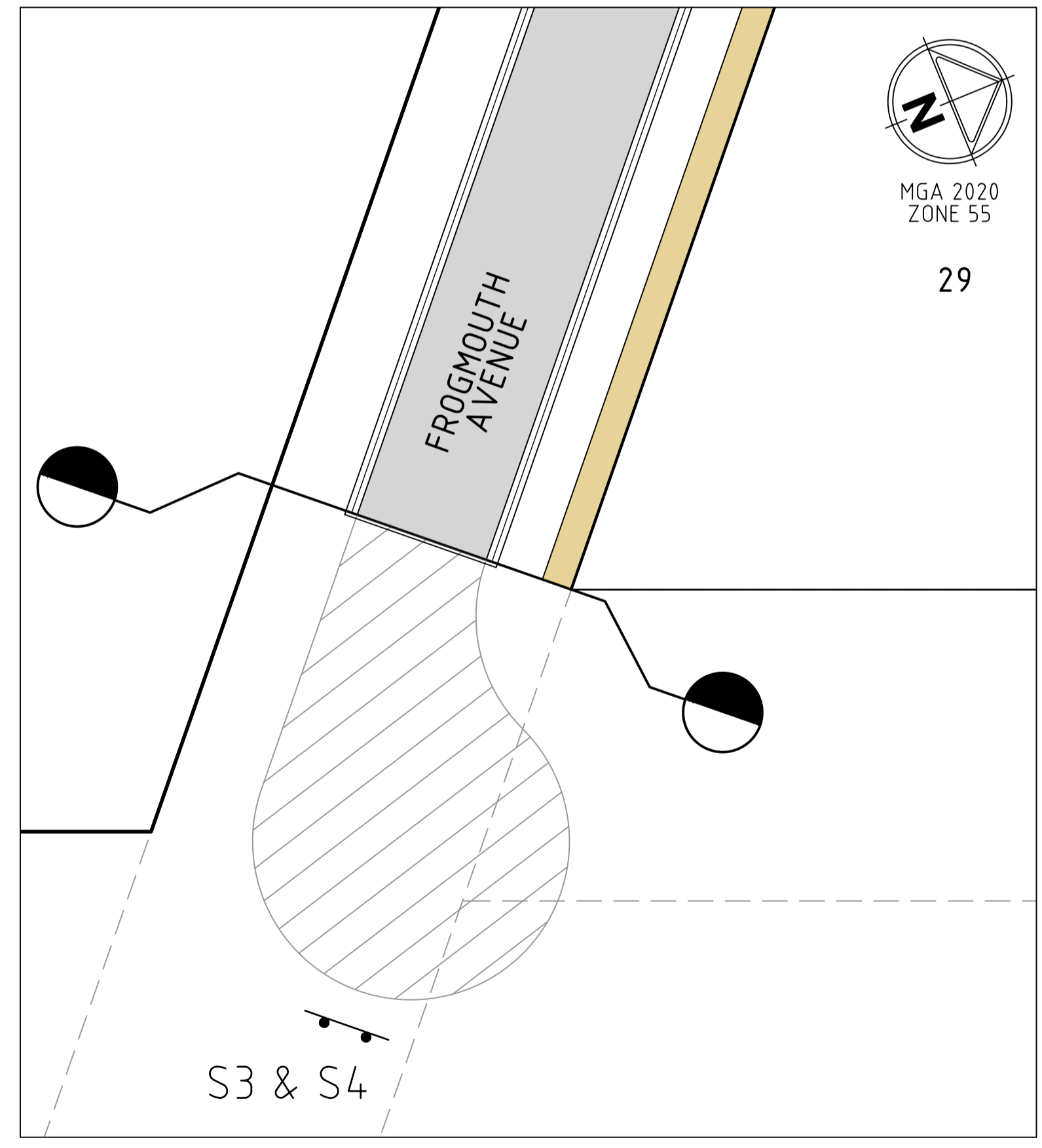
600 600 GAP 300mm WIDE

CONTINUITY LINES

1m 3m GAP 100mm WIDE

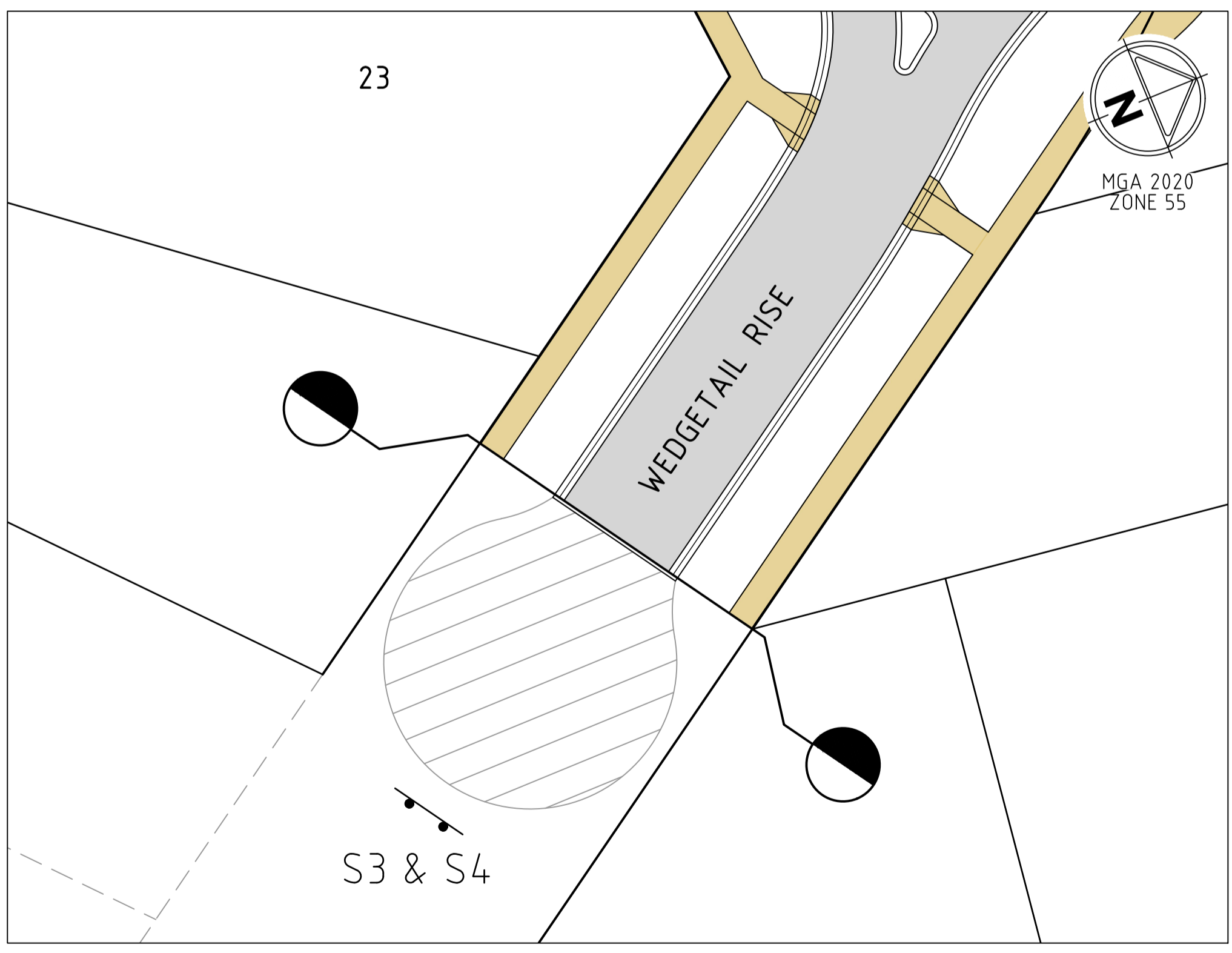
LANE EDGE LINES

100mm WIDE



FOR CONTINUATION REFER INSERT 'A' TO LEFT

FOR CONTINUATION REFER INSERT 'B' TO RIGHT

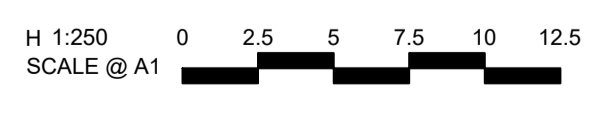


INSERT 'B'

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 07 September 2022

PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
PLAN REFERRED TO IN PLANNING PERMIT
NO: DS/337/2017
Delegated Officer: Peter O'Brien
For and on behalf of the City of Greater Bendigo
Date: 8 September 2022 Page 35 of 35

Rev	Amendments	Approved	Date
D	AMENDMENTS FOR COUNCIL APPROVAL	C.C	07-09-22
C	COUNCIL ISSUE FOR APPROVAL	C.C	10-08-22
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A	DRAFT PLANS FOR DISCUSSION	C.C	14-04-22



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M.RULE
Authorised
C.CLARKE

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Date
SEPTEMBER 2022

**EMU RISE ESTATE - STAGE 1
29 EMU CREEK ROAD, STRATHFIELDSAYE
SIGNAGE AND LINEMARKING**

CITY OF GREATER BENDIGO (PP - DS/337/2017)
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No **308978CR800** Rev **D**

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