

NOTE:
KERB TRANSITION TO BE MINIMUM 1.0m



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.



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VICTORIA 8007 AUSTRALIA T 61 3 9993 7888
spiire.com.au ABN 55 005 029 635



Designed
D.RAWAT
Authorised
T.ABBOTT

Checked
B.WARNAKULASURIYA
Date
JULY 2025

**ALMA ESTATE
STAGE 1
ROAD & DRAINAGE
ROAD LAYOUT PLAN - SHEET 1**
CASEY CITY COUNCIL
SIG GROUP

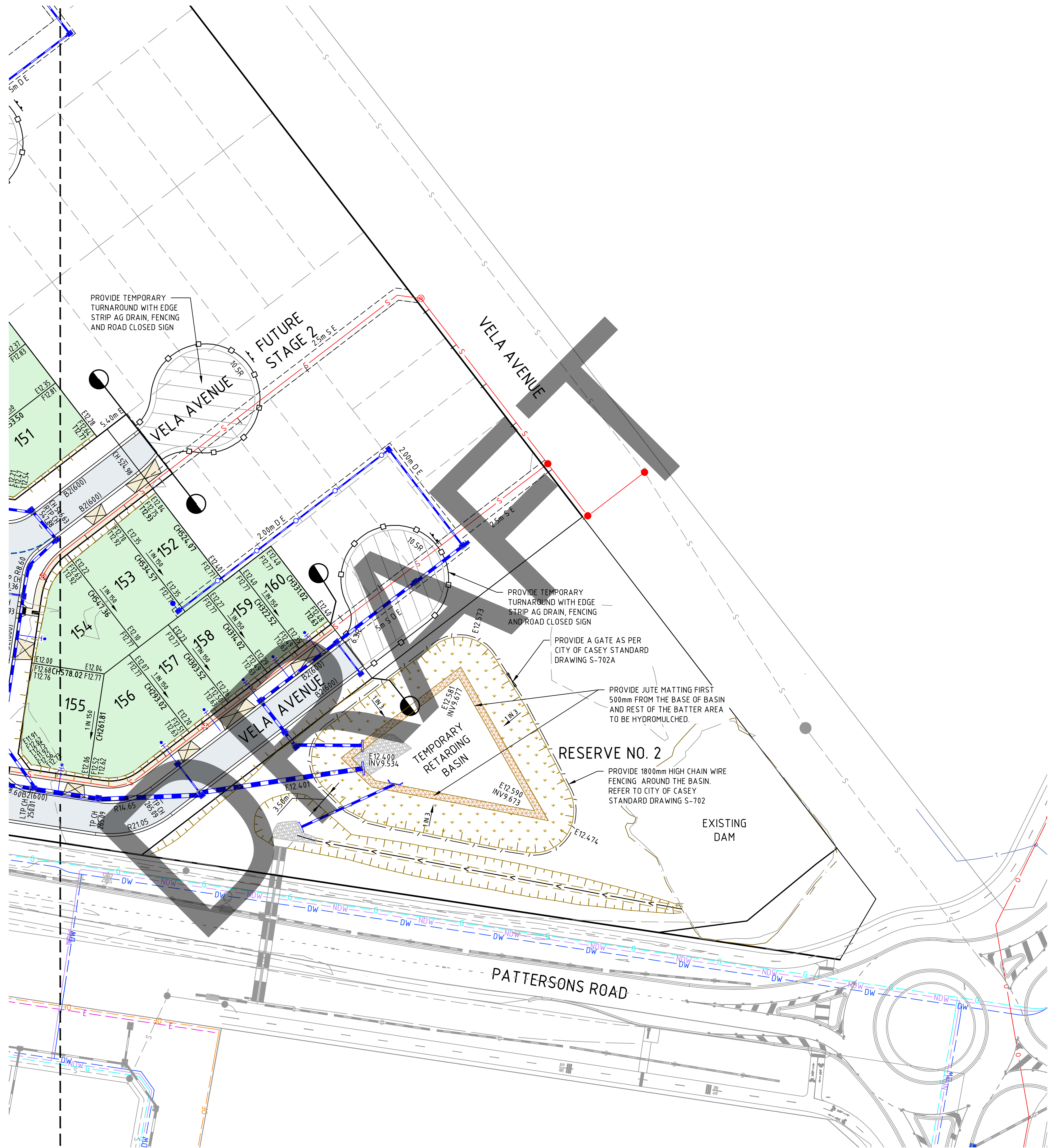
PRELIMINARY Drg No 322764-001CR200 Rev B

FOR CONTINUATION REFER TO NEXT SHEET

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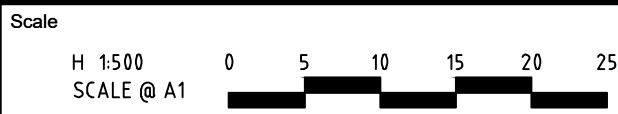


FOR CONTINUATION REFER TO PREVIOUS SHEET



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Date
JULY 2025

**ALMA ESTATE
STAGE 1
ROAD & DRAINAGE
ROAD LAYOUT PLAN - SHEET 2**
CASEY CITY COUNCIL
SIG GROUP

PRELIMINARY Drg No 322764-001CR201 Rev

B

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file name: 327264-001CR202.dwg, layout name: CR202, plotted by: Dinesh Rawat, file location: G:\327264\001\327264-001.dwg, plot date: 30/07/2025 5:43 PM, Sheet 4 of 27 Sheets



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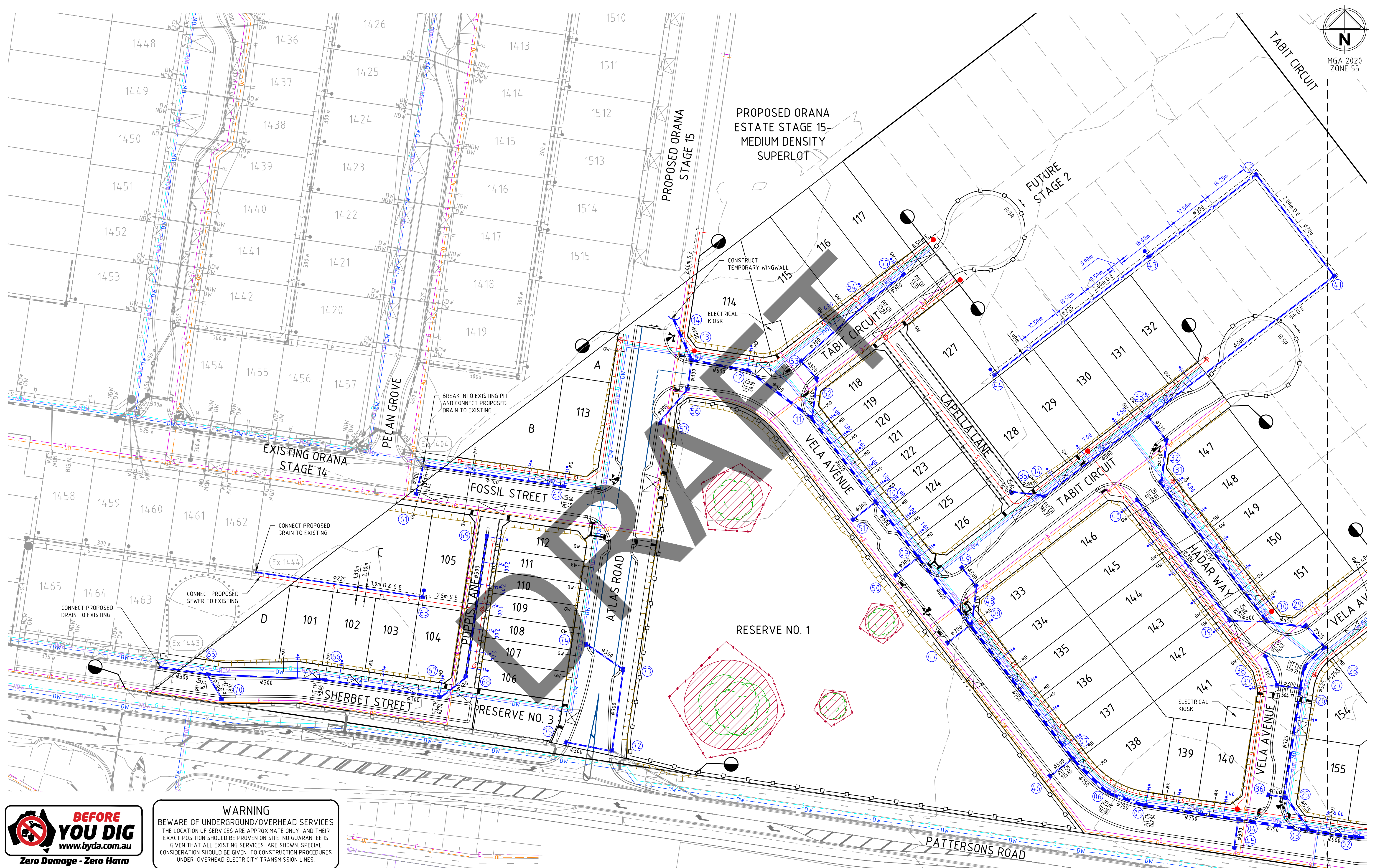


Designed
D.RAWAT
Authorised
T.ABBOTT

Checked
B.WARNAKULASURIYA
Date
JULY 2025

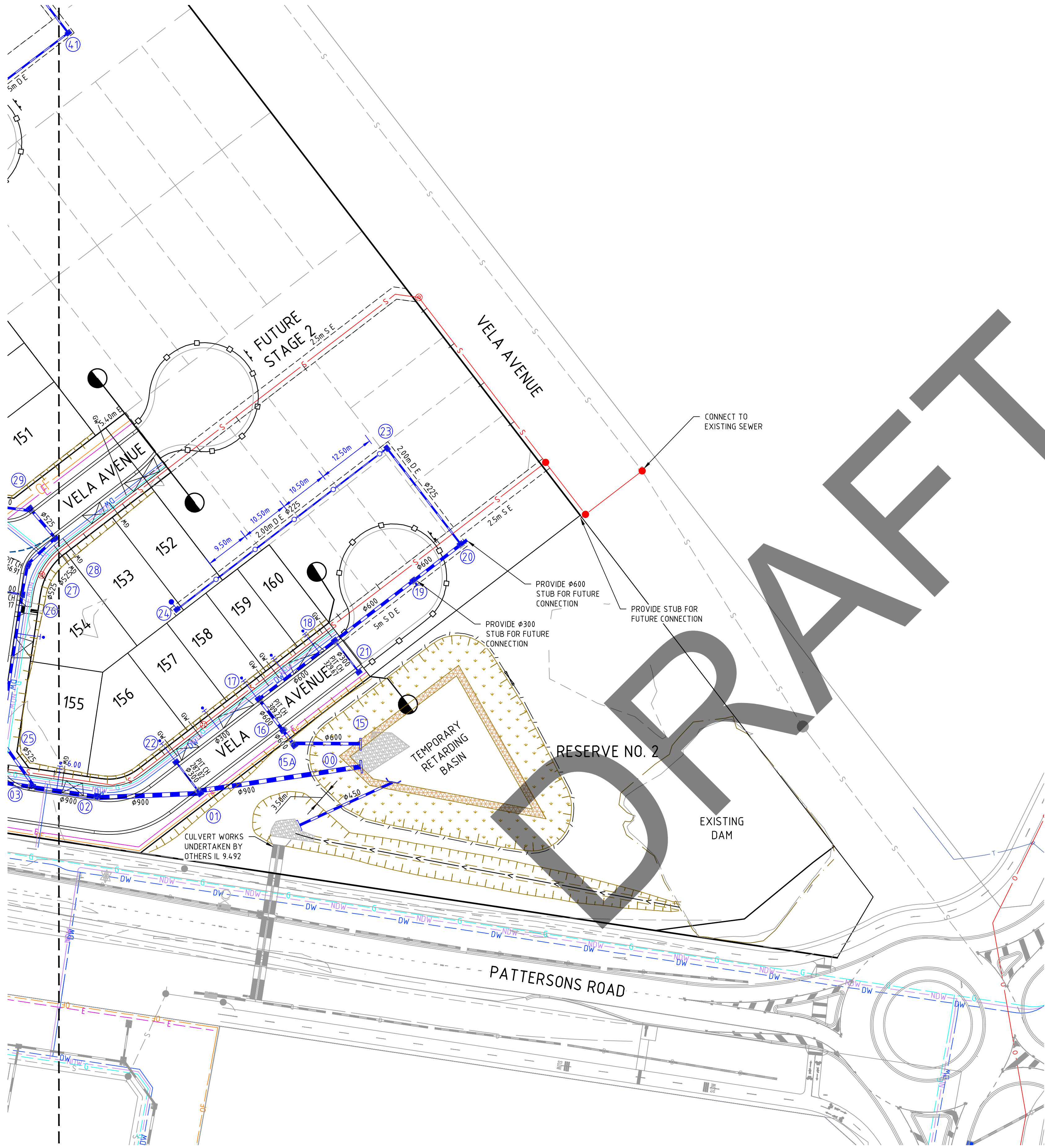
**ALMA ESTATE
STAGE 1
ROAD & DRAINAGE
SERVICES PLAN - SHEET 1**
CASEY CITY COUNCIL
SIG GROUP

PRELIMINARY Drg No **322764-001CR202** Rev **B**



file name: 322764-001CR203.dwg, layout name: C003, plotted by: Dinesh Rawat, file location: G:\322764\001\Cr\AC AD plot data, 30/07/2025 5:43 PM Sheet 5 of 27 Sheets

FOR CONTINUATION REFER TO PREVIOUS SHEET



SERVICE LOCATION TABLE

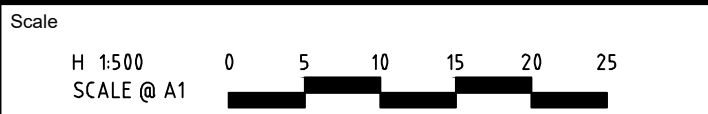
ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY				RECYCLED WATER	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE SIDE	POLE OFFSET	U/G CABLE SIDE	U/G CABLE OFFSET	SIDE	OFFSET
ATLAS ROAD	W	3.05	W	2.10	E	1.85	E	1.00x	E	2.60	W	2.55
FOSSIL SRTEET	N	2.85	N	1.90	S	1.85	S	1.00x	S	2.60	N	2.35
SHERBET STREET	N	2.85	N	1.90	S	0.30	-	-	S	0.75	N	2.35
PUPPIS LANE	-	-	-	-	W	0.30	-	-	W	0.75	-	-
VELA AVENUE	N	2.85	N	1.90	S	1.85	S	1.00x	S	2.60	N	2.35
TABIT CIRCUIT	N/W	2.85	N/W	1.90	S/E	1.85	S/E	1.00x	S/E	2.60	N/W	2.35
CAPELLA LANE	-	-	-	-	-	-	-	-	-	-	-	-
HADAR WAY	S	2.85	S	1.90	N	1.85	N	1.00x	N	2.60	S	2.35

1. TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG's.
2. GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
3. x = OFFSET FROM BACK OF KERB



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Rev	Amendments	Approved	Date
B	ISSUED TO COUNCIL	T.A	30/07/25
A	ISSUED FOR TENDER	T.A	21/03/25



System Certified

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Authorised
T.ABBOTT

Checked
B.WARNAKULASURIYA

Date
JULY 2025

**ALMA ESTATE
STAGE 1
ROAD & DRAINAGE
SERVICES PLAN - SHEET 2**
CASEY CITY COUNCIL
SIG GROUP

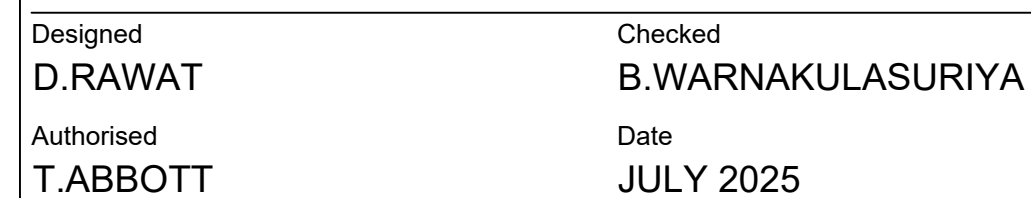
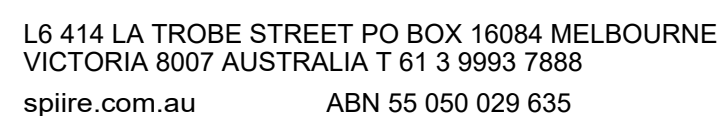
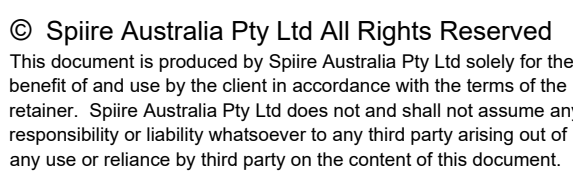
PRELIMINARY Drg No 322764-001CR203 Rev B



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SCALE @ A1
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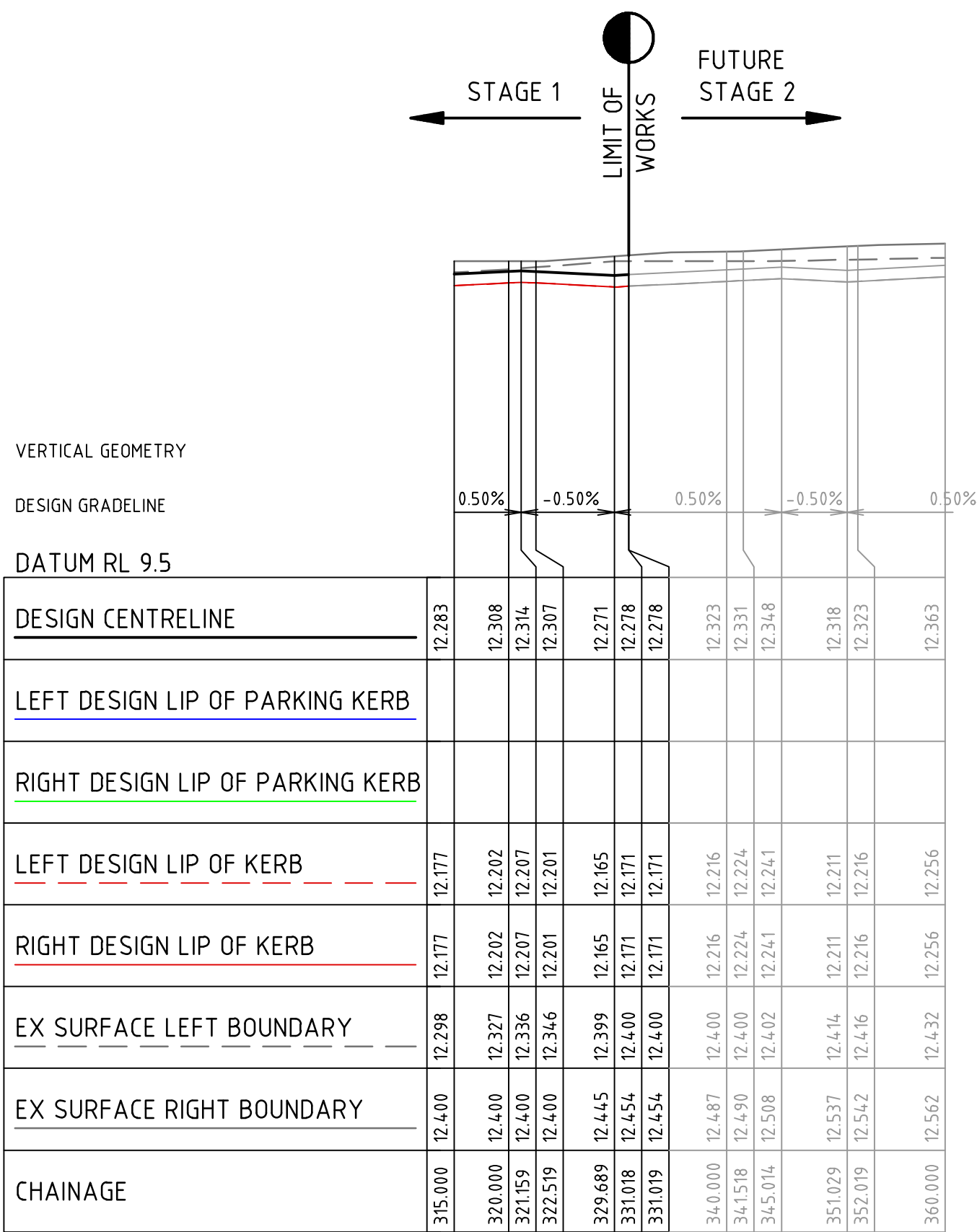
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PRELIMINARY Drg No 322764-001 CR300 Rev B



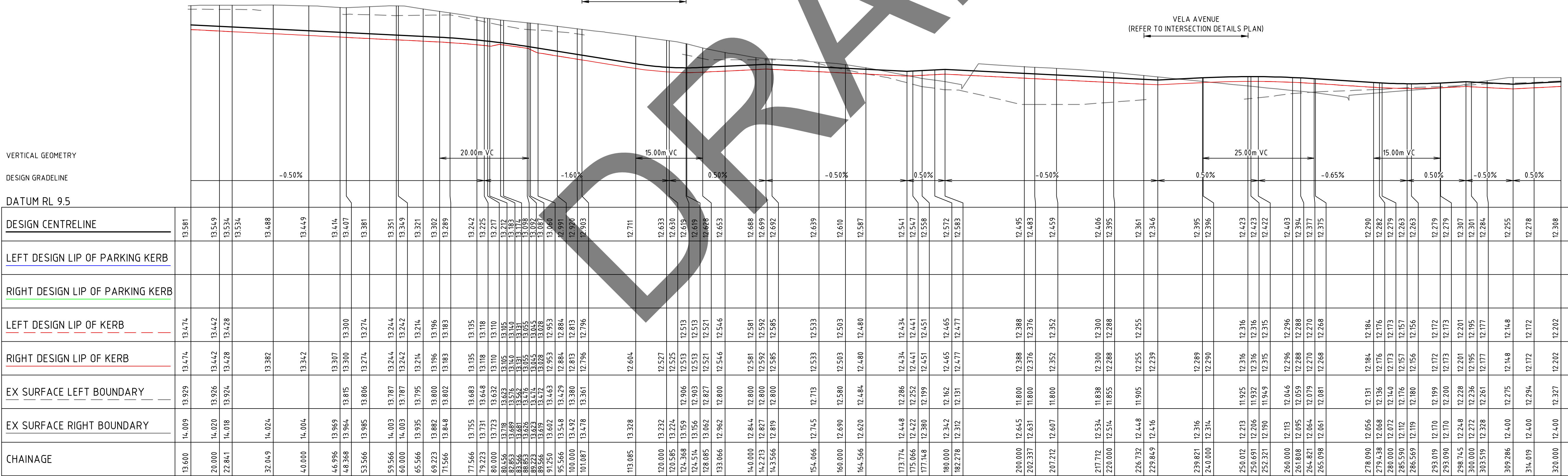
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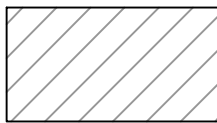
VELA AVENUE (PART 2 OF 3)

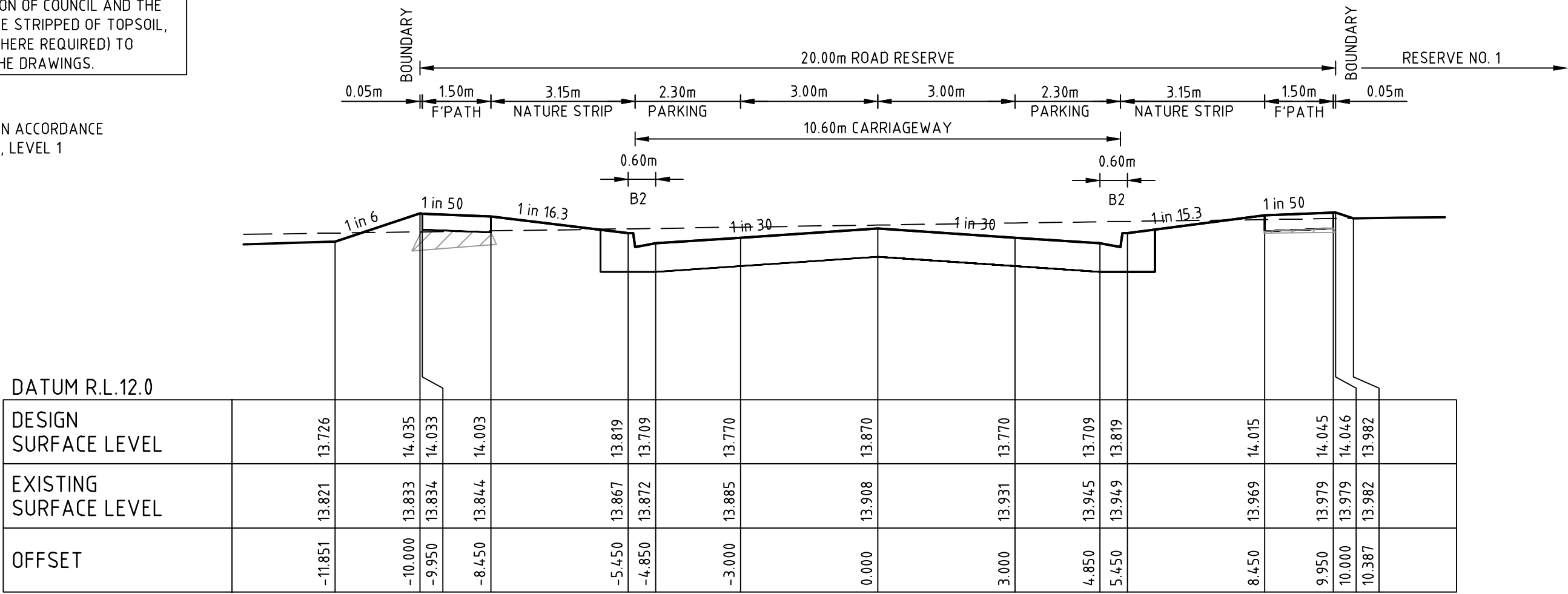
ATLAS ROAD
(REFER TO INTERSECTION DETAILS PLAN)

TABIT CIRCUIT
(REFER TO INTERSECTION DETAILS PLAN)



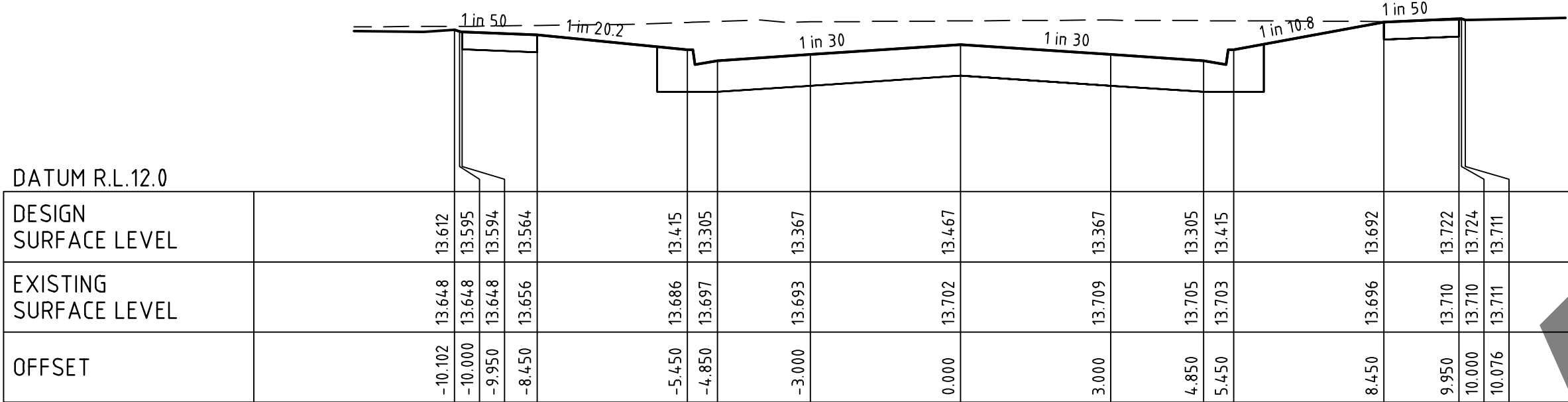
FILLING NOTE
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN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

 STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



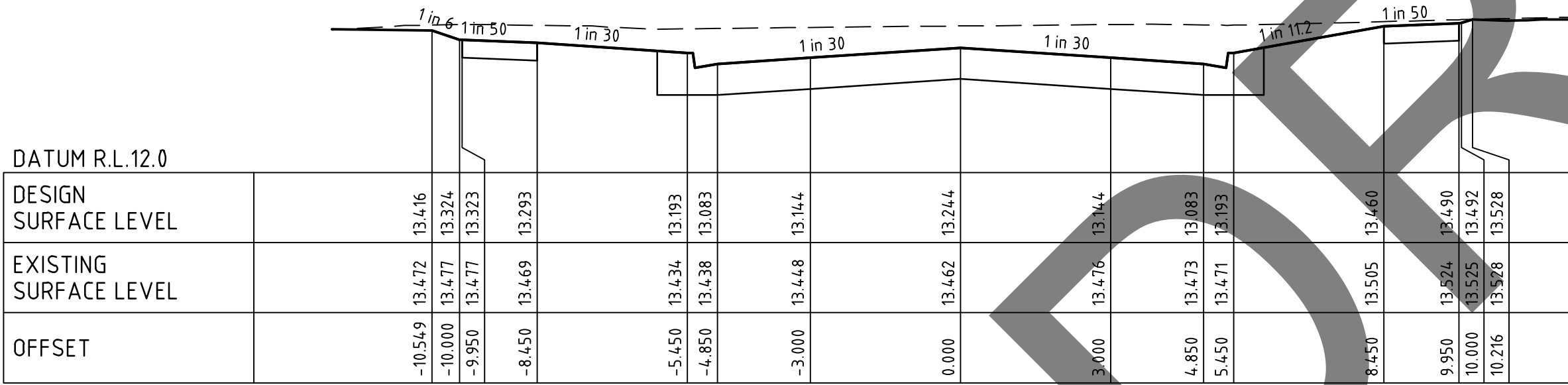
ATLAS ROAD

CH 97.99



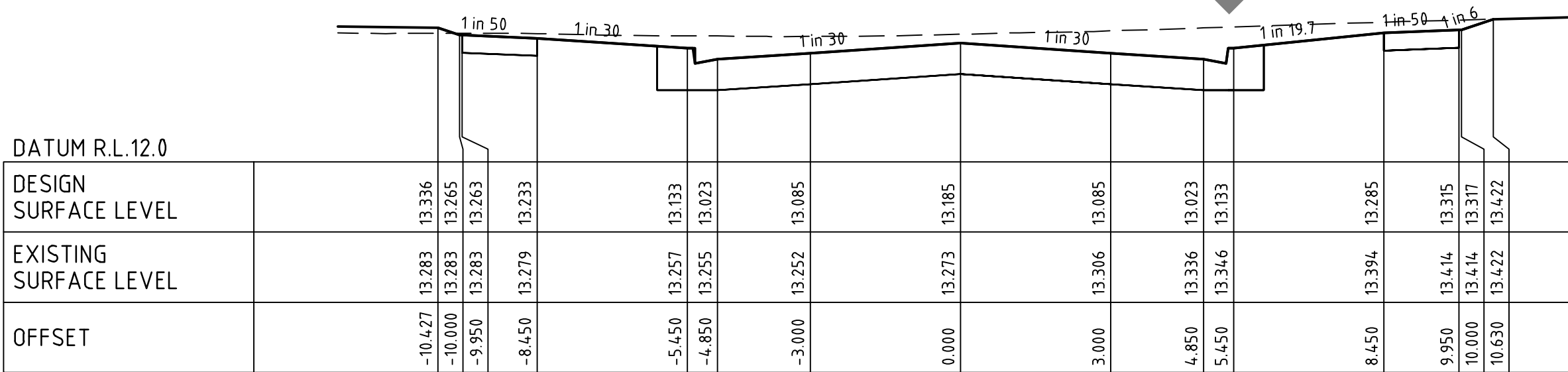
ATLAS ROAD

CH 69.03



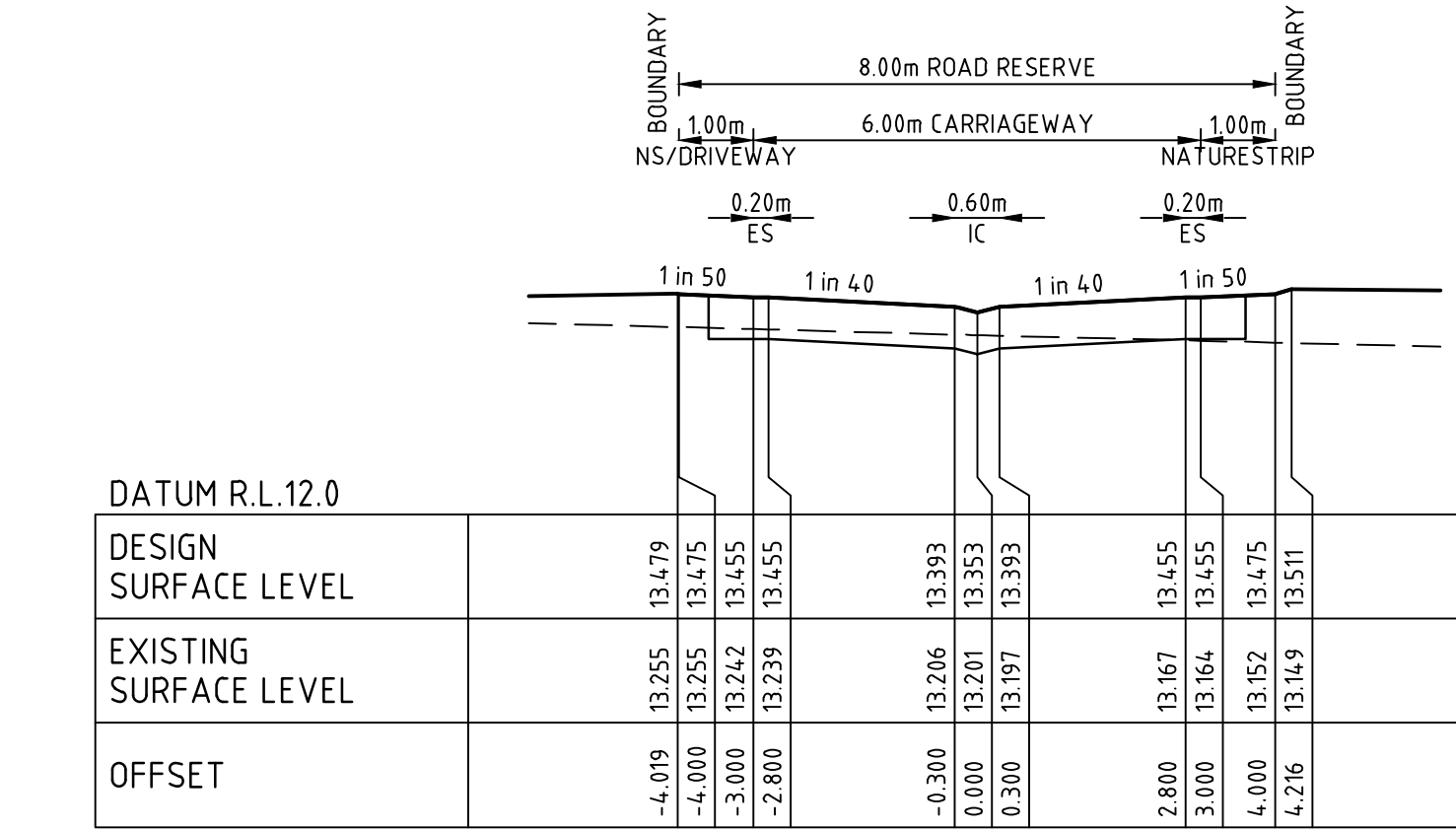
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CH 54.01



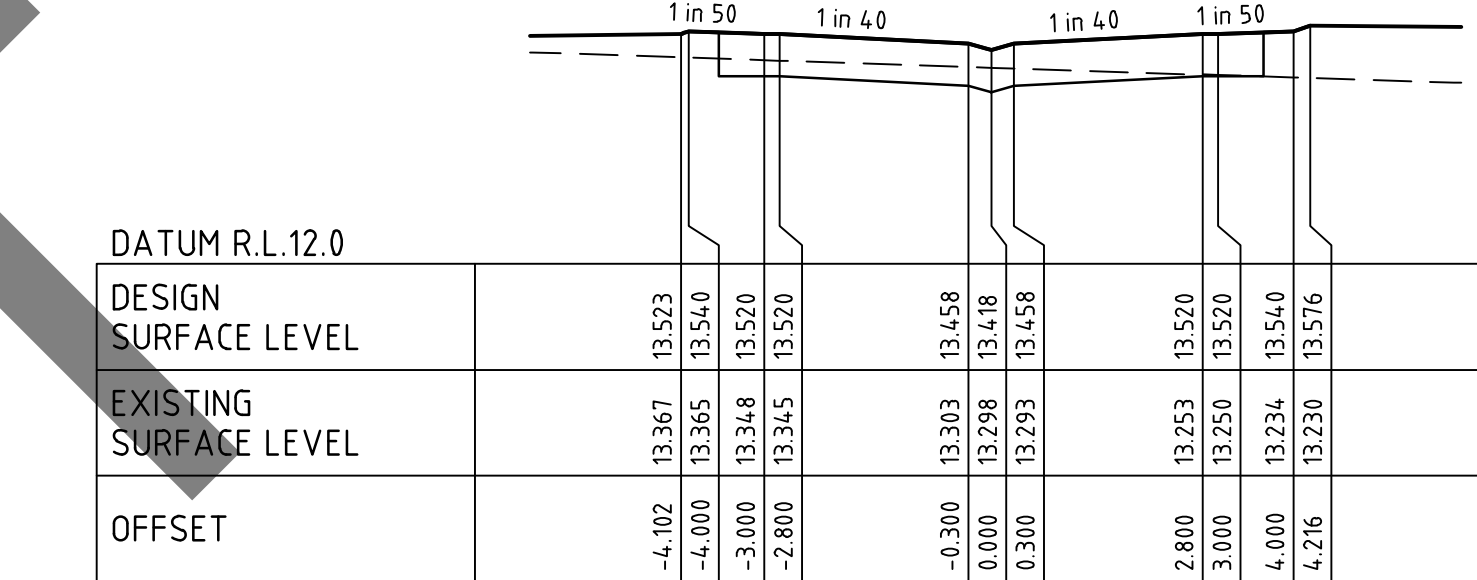
ATLAS ROAD

CH 42.69



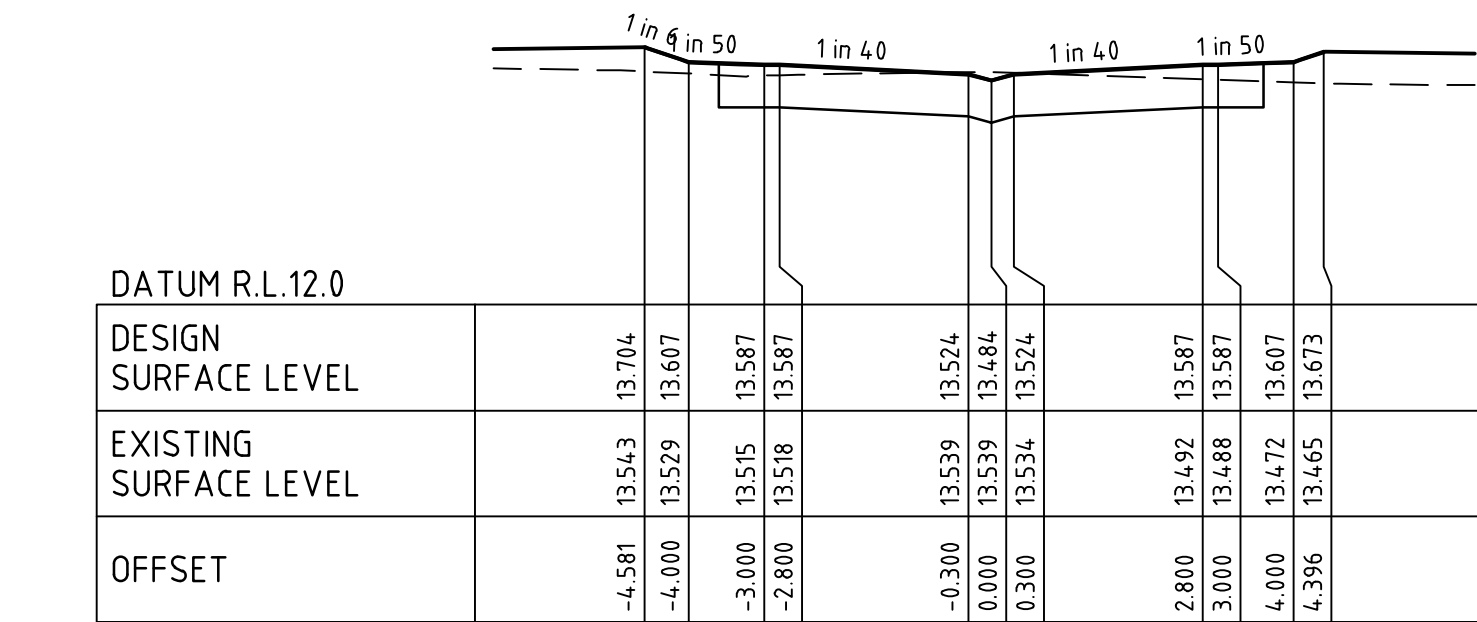
PUPPIS LANE

CH 49.00



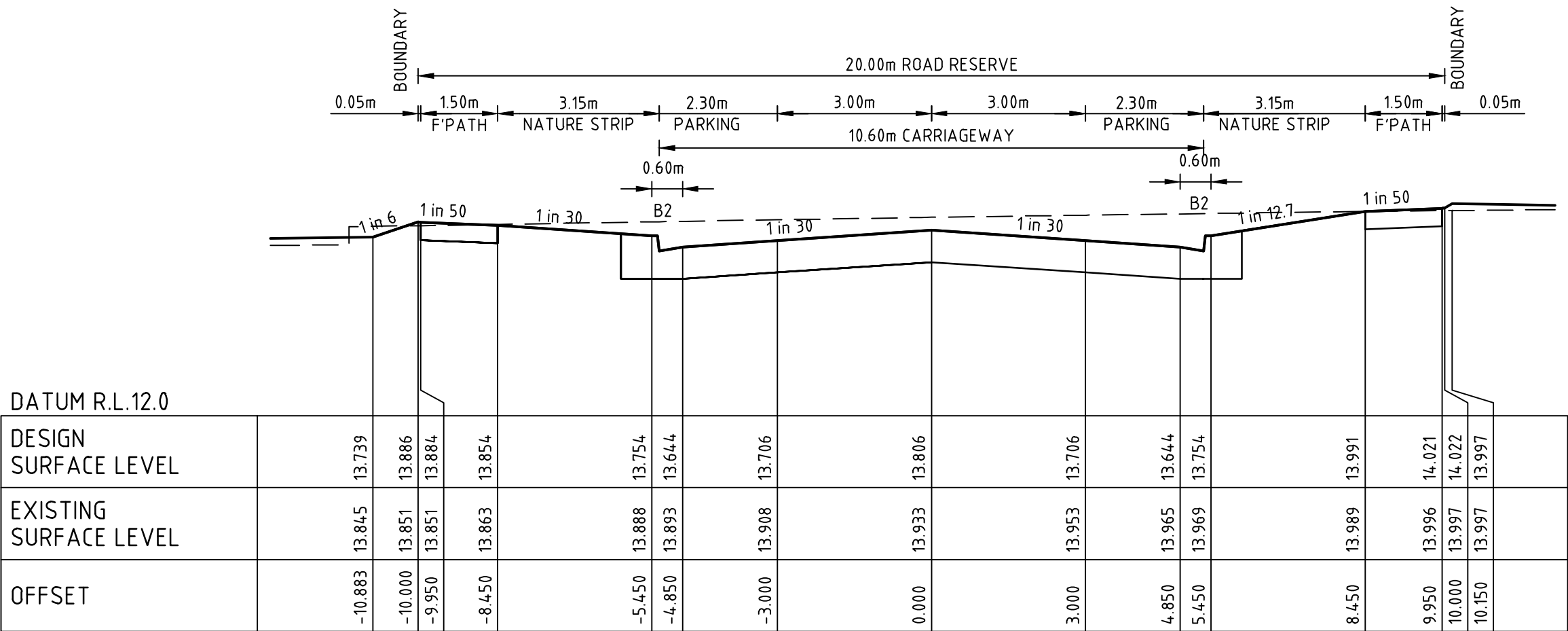
PUPPIS LANE

CH 36.00



PUPPIS LANE

CH 16.50

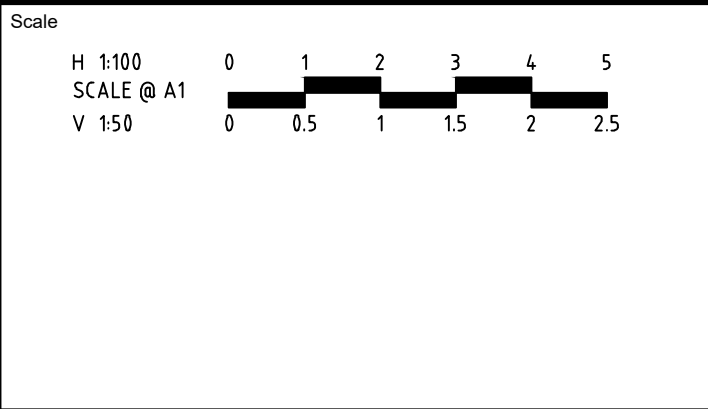


ATLAS ROAD

CH 110.90

file name: 322764-001CR400.dwg layout name: CH400 plotted by: Dinesh Deyat file location: G:\322764\001\CH400\CH400.plt plot date: 30/07/2025 5:43 PM Sheet 1 of 1 Sheets

B	ISSUED TO COUNCIL	T.A	30/07/25
A	ISSUED FOR TENDER	T.A	21/03/25
Rev	Amendments	Approved	Date





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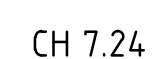
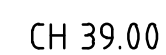
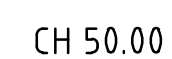
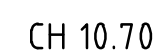
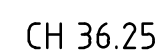
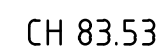
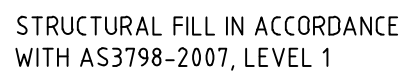
Designed D.RAWAT	Checked B.WARNAKULASURIYA
Authorised T.ABBOTT	Date JULY 2025

**ALMA ESTATE
STAGE 1
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 1
CASEY CITY COUNCIL
SIG GROUP**

PRELIMINARY Drg No **322764-001CR400**

Rev **B**

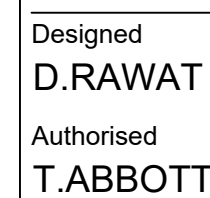
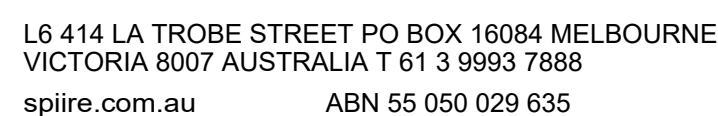
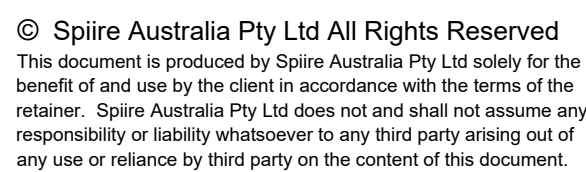
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS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



Scale

H 1:100
SCALE @ A1
V 1:50

0 1 2 3 4 5
0 0.5 1 1.5 2 2.5

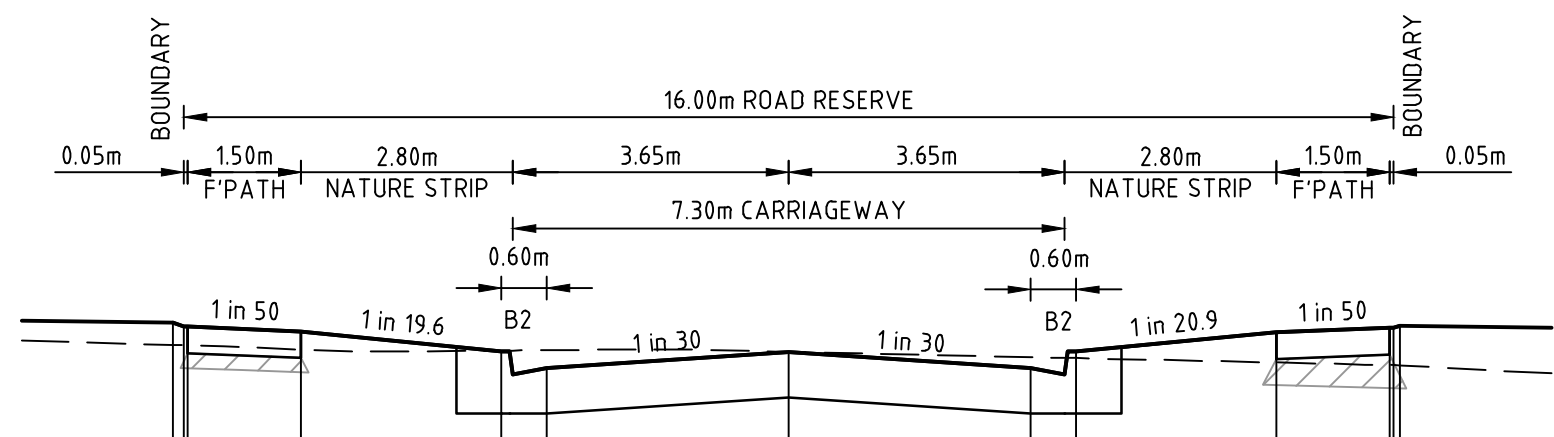


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B.WARNAKULASURIYA
Date
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PRELIMINARY Drg No **322764-001CR401**

Rev

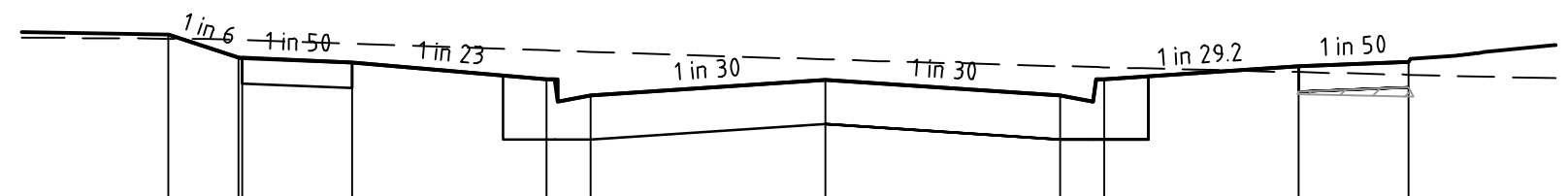
 STRUCTURAL FILL IN ACCORDANCE
WITH AS3798-2007, LEVEL 1



DATUM R.L. 12.0									
DESIGN SURFACE LEVEL					-8.148	13.533	13.680		
					-8.000	13.531	13.655		
					-7.950	13.530	13.653		
EXISTING SURFACE LEVEL					-6.450	13.503	13.623		
OFFSET					-3.800	13.496	13.488		
					-3.200	13.498	13.378		
					0.000	13.487	13.485		
					3.200	13.453	13.378		
					3.800	13.446	13.488		
					6.450	13.417	13.615		
					7.950	13.400	13.645		
					8.000	13.400	13.647		
					8.086	13.398	13.661		

TABIT CIRCUIT

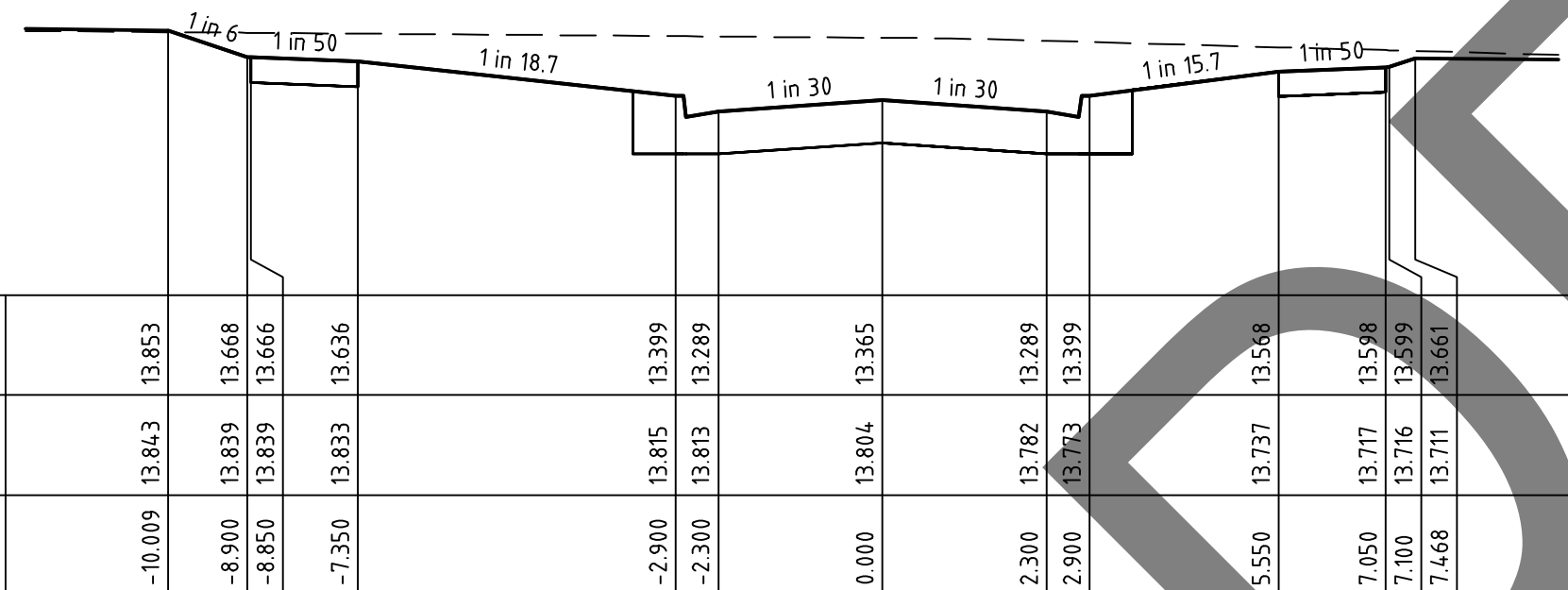
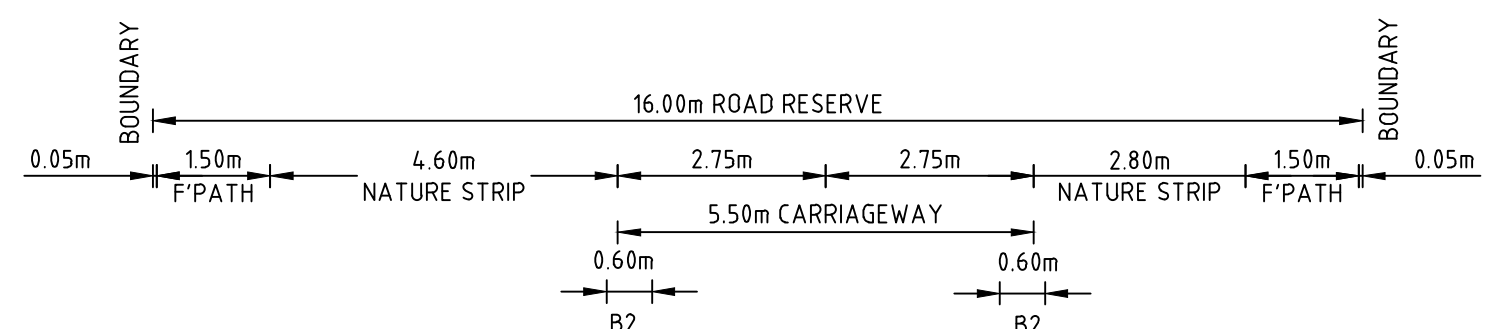
CH 56.17



DATUM R.L. 12.0							
DESIGN SURFACE LEVEL							
EXISTING SURFACE LEVEL							
OFFSET							

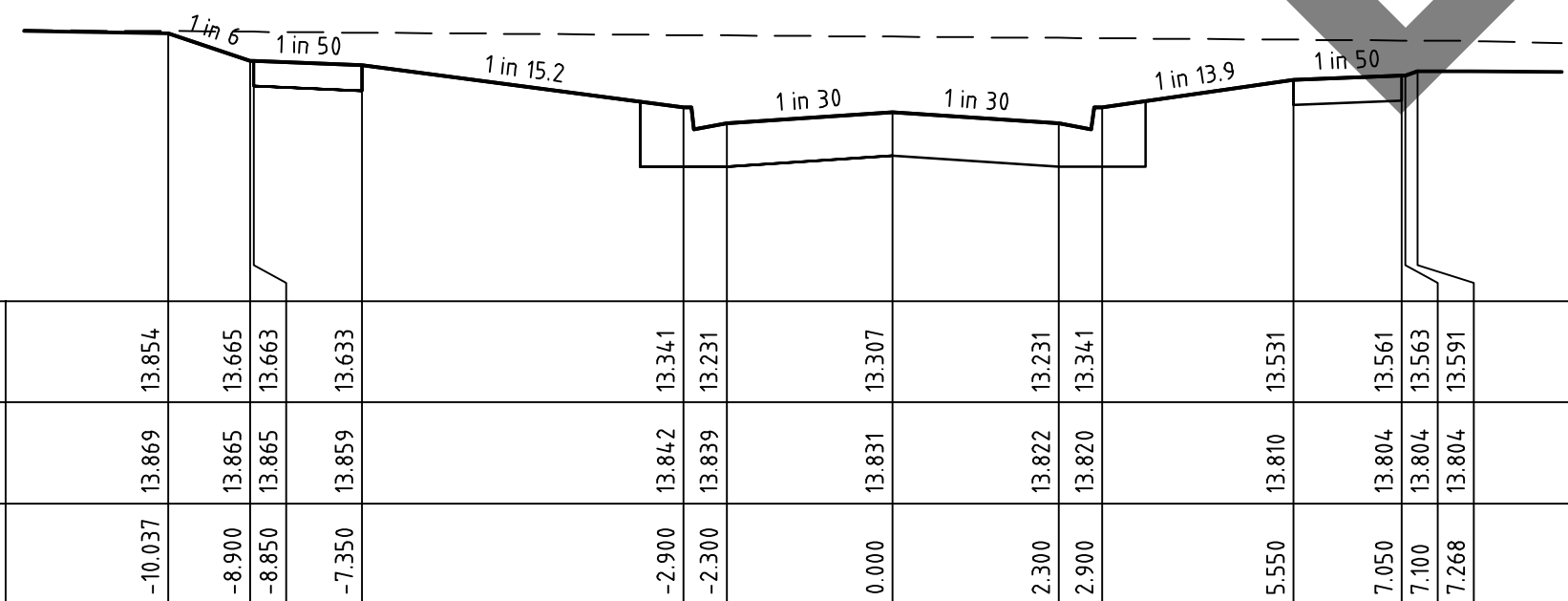
TABIT CIRCUIT

CH 34.07



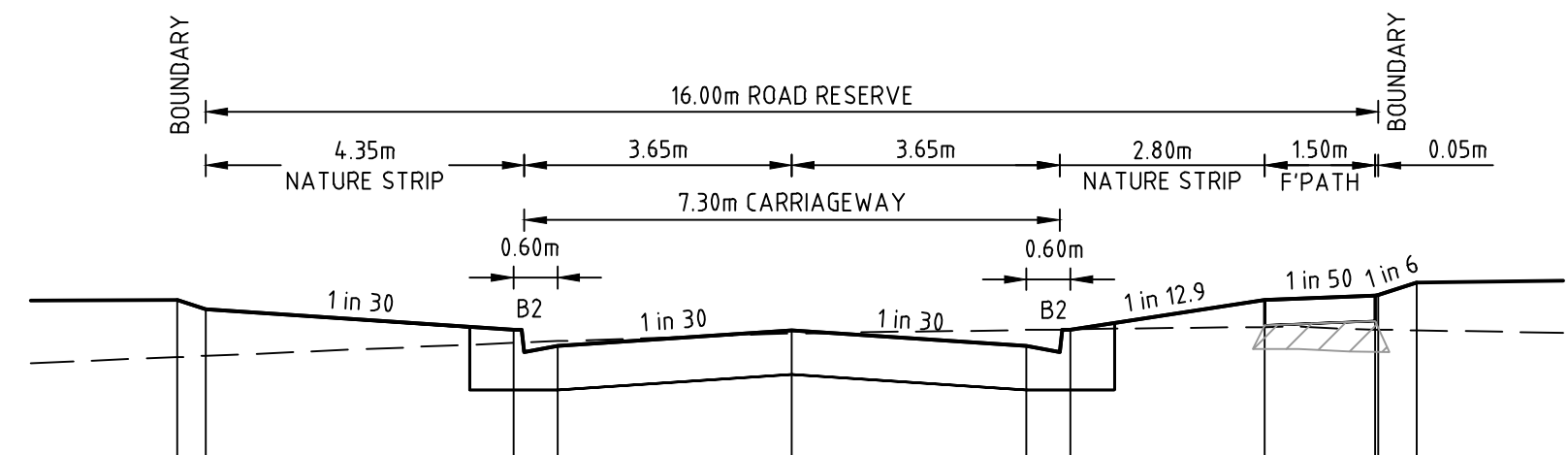
TABIT CIRCUIT

CH 22.00



TABIT CIRCUIT

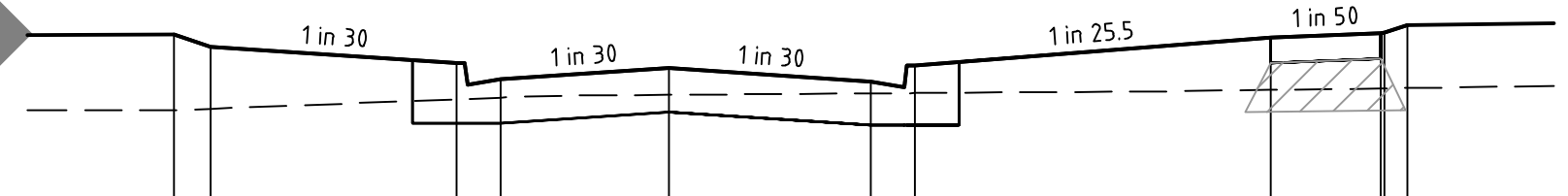
CH 12.91



DATUM R.L.11.0					
DESIGN SURFACE LEVEL			12.831	12.767	
EXISTING SURFACE LEVEL			12.442	12.450	
OFFSET			-8.385	-8.000	
			-3.800	-3.200	
			12.539	12.551	
			12.627	12.517	
			12.603	12.623	
			12.517	12.627	
			12.631	12.627	
			12.446	12.833	
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			8.000	12.629	
			8.523	12.625	
				12.951	

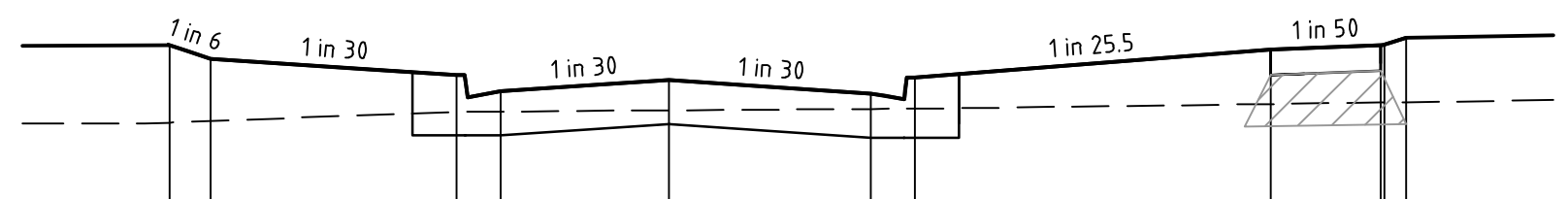
TABIT CIRCUIT

CH 341.72

[illegible]

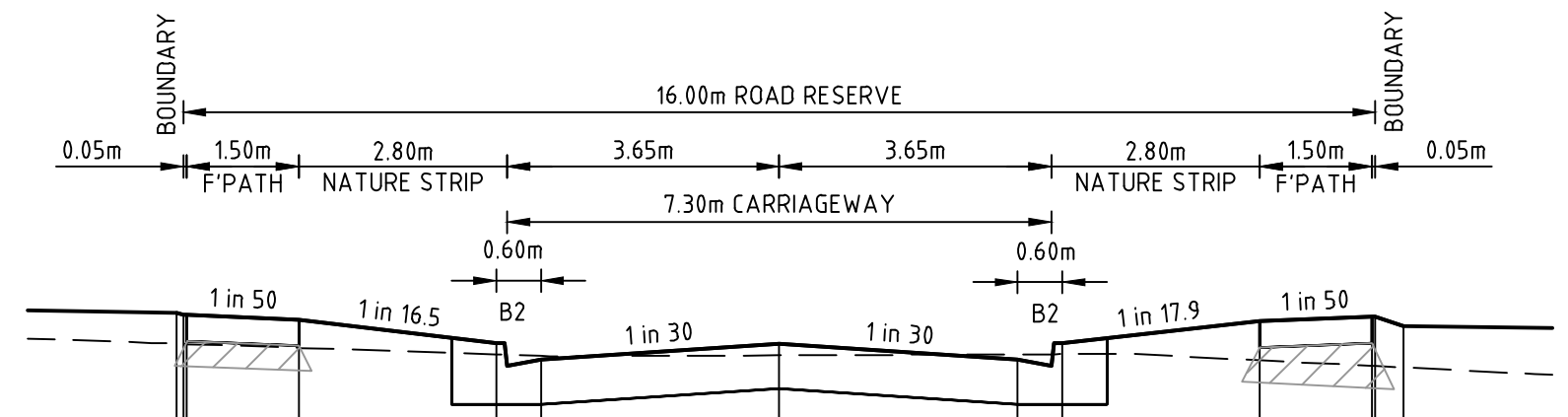
TABIT CIRCUIT

CH 328.47

[illegible]

TABIT CIRCUIT

CH 327.08

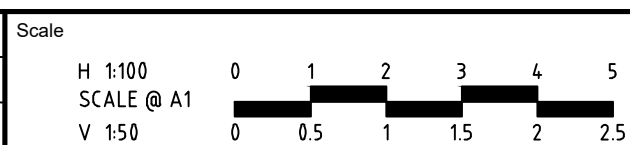


DATUM R.L.12.0					
DESIGN SURFACE LEVEL					
EXISTING SURFACE LEVEL					
OFFSET					

TABIT CIRCUIT

CH 63.05

B	ISSUED TO COUNCIL	T.A	30/07/25
A	ISSUED FOR TENDER	T.A	21/03/25
Rev	Amendments	Approved	Date



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Designed
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Authorised
T.ABBOTT

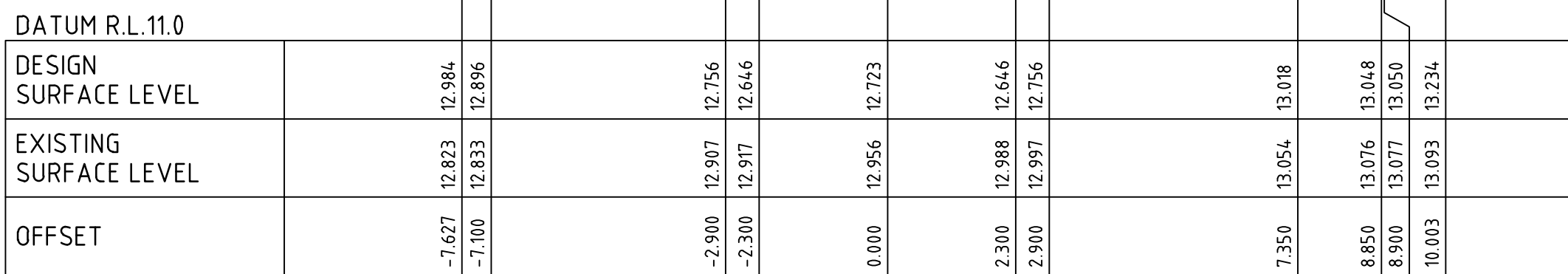
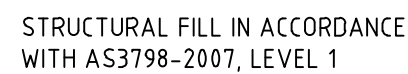
Checked
B.WARNAKULASURIYA
Date
JULY 2025

**ALMA ESTATE
STAGE 1
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 3
CASEY CITY COUNCIL
SIG GROUP**

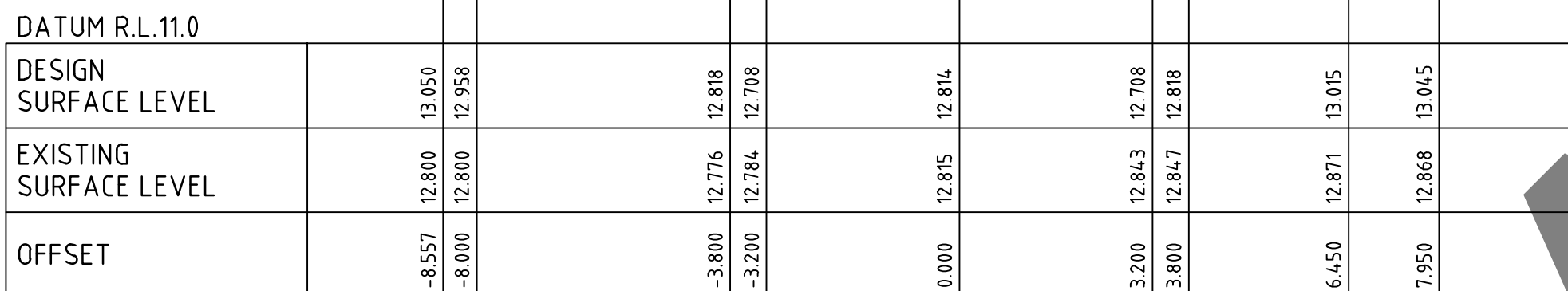
PRELIMINARY Drg No **322764-001CR402**

B

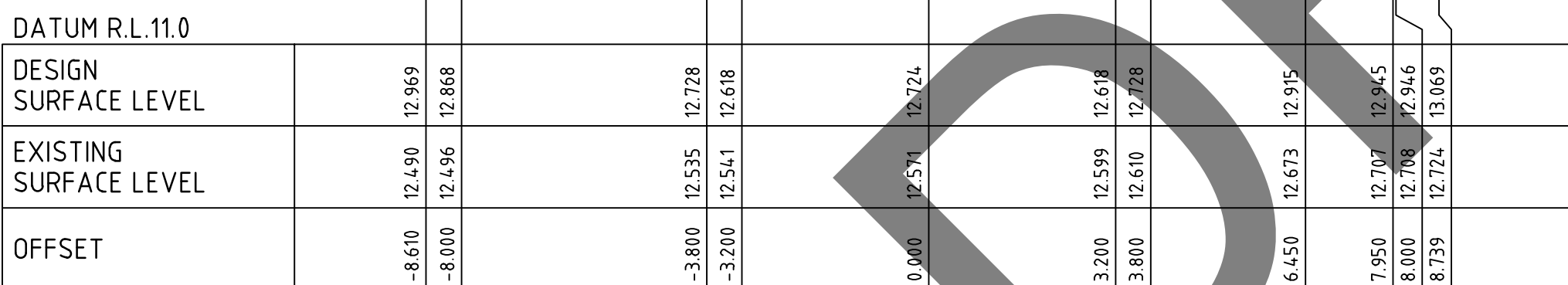
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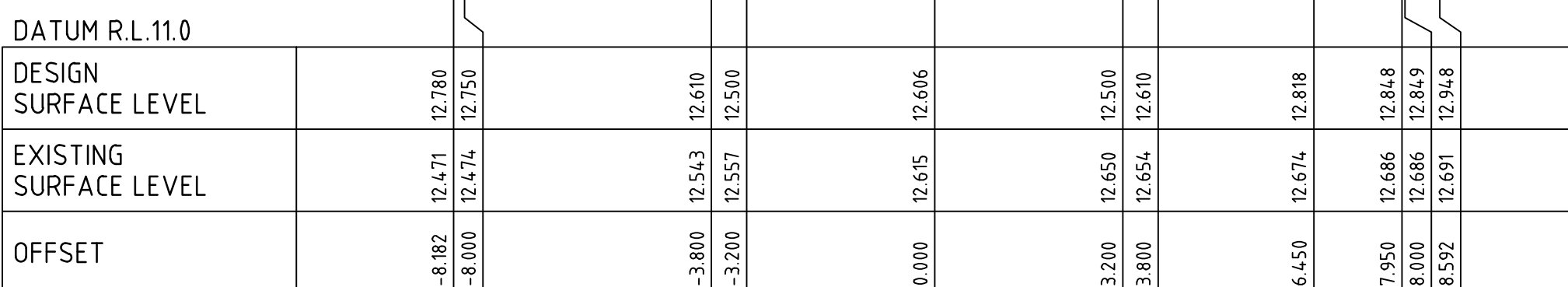
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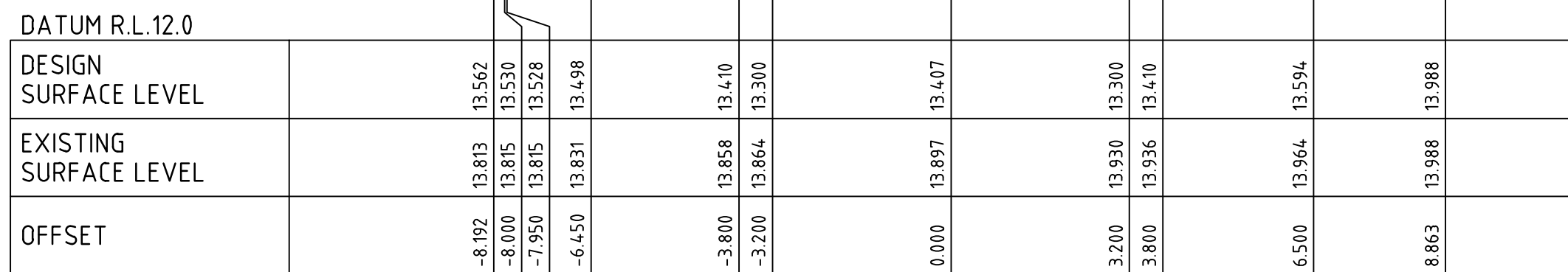
CH 397.37



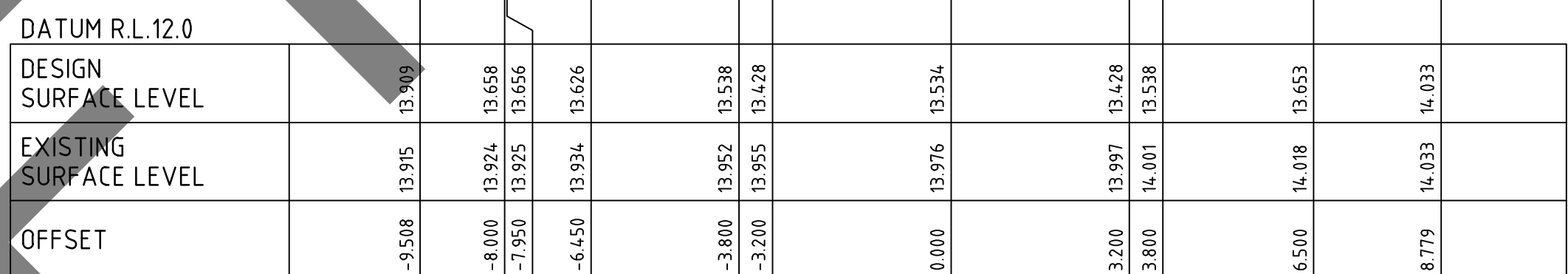
CH 373.04



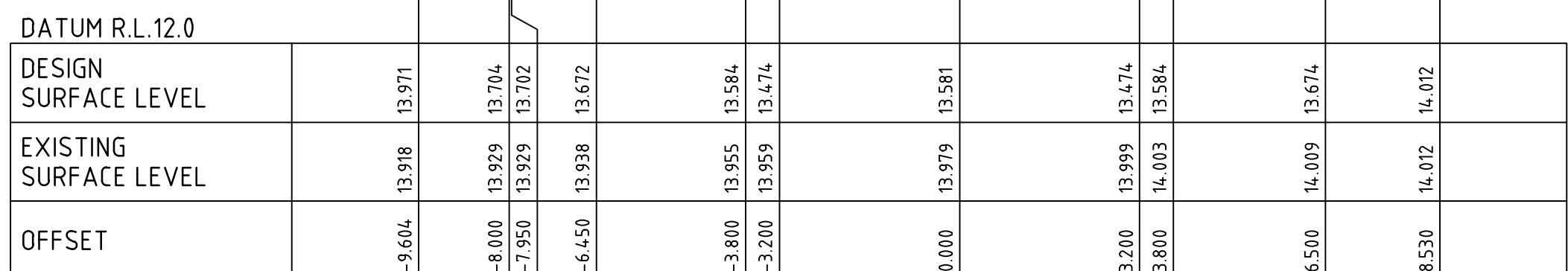
CH 349.44



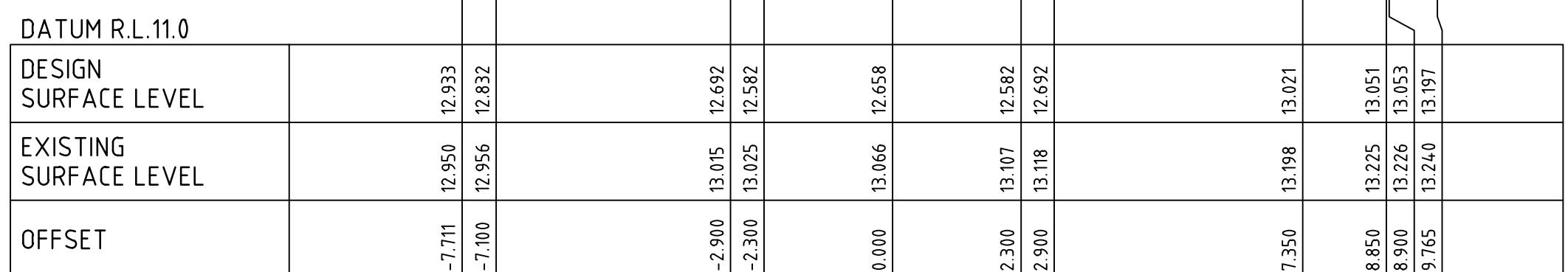
CH 48.37



CH 22.84



CH 13.60

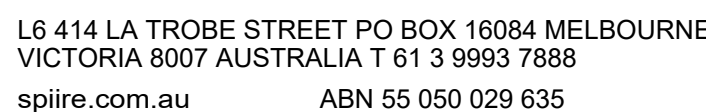


CH 418.51

Scale

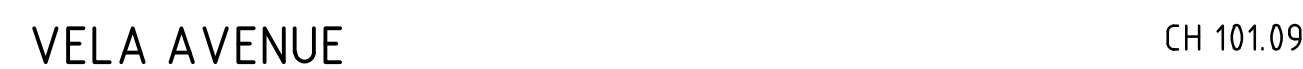
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SCALE @ A1
V 150

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0 0.5 1 1.5 2 2.5



PRELIMINARY Drg No Rev
322764-001CR403 **B**

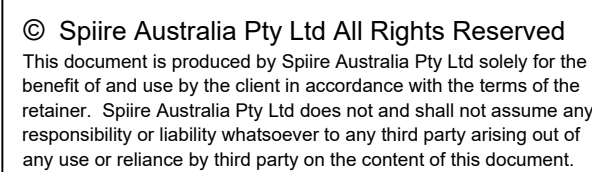
 STRUCTURAL FILL IN ACCORDANCE
WITH AS3798-2007, LEVEL 1



Scale

H 1:100
SCALE @ A1
V 1:50

0 1 2 3 4 5
0 0.5 1 1.5 2 2.5



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PRELIMINARY Drg No 322764-001CR404

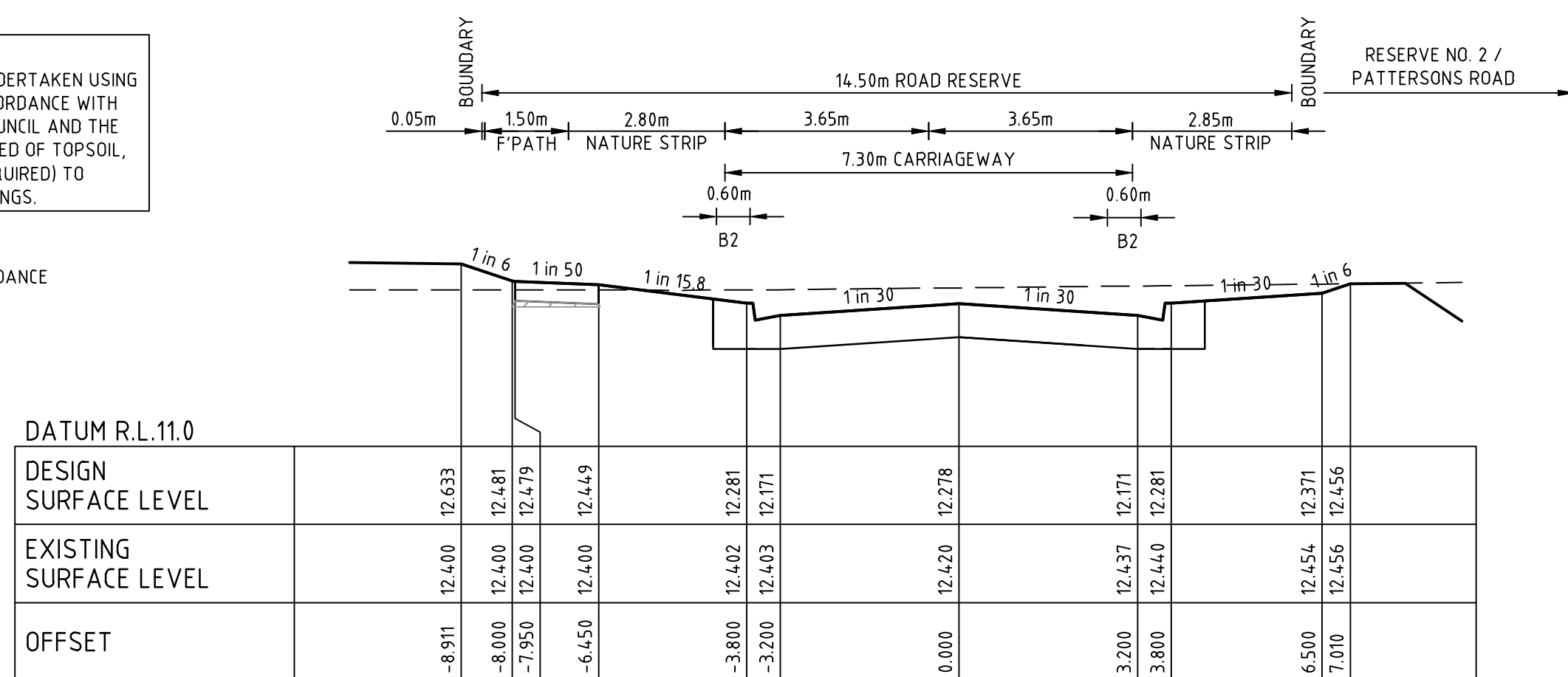
Rev
B

file name 322764-001CR400.dwg layout name CR404 plotted by Deepak Rawat
file location G:\32\322764\001\Civil\ACAD plot date 30/07/2025 5:43 PM Sheet 1 of 1 Sheets

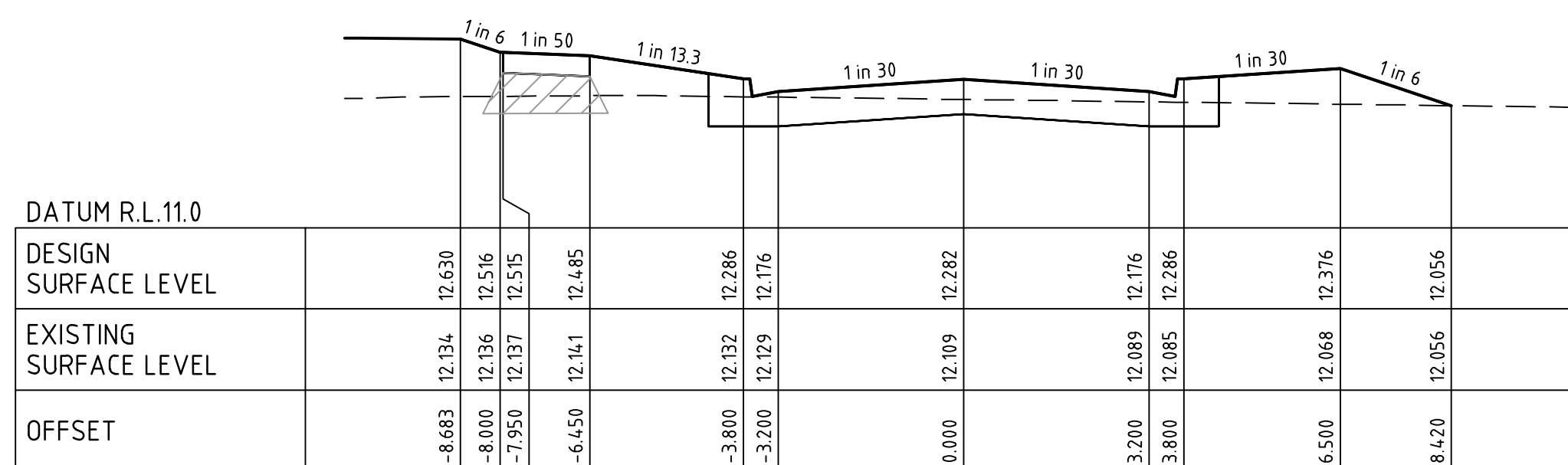
FILLING NOTE
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING
LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH
AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE
SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL,
FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO
OBTAIN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



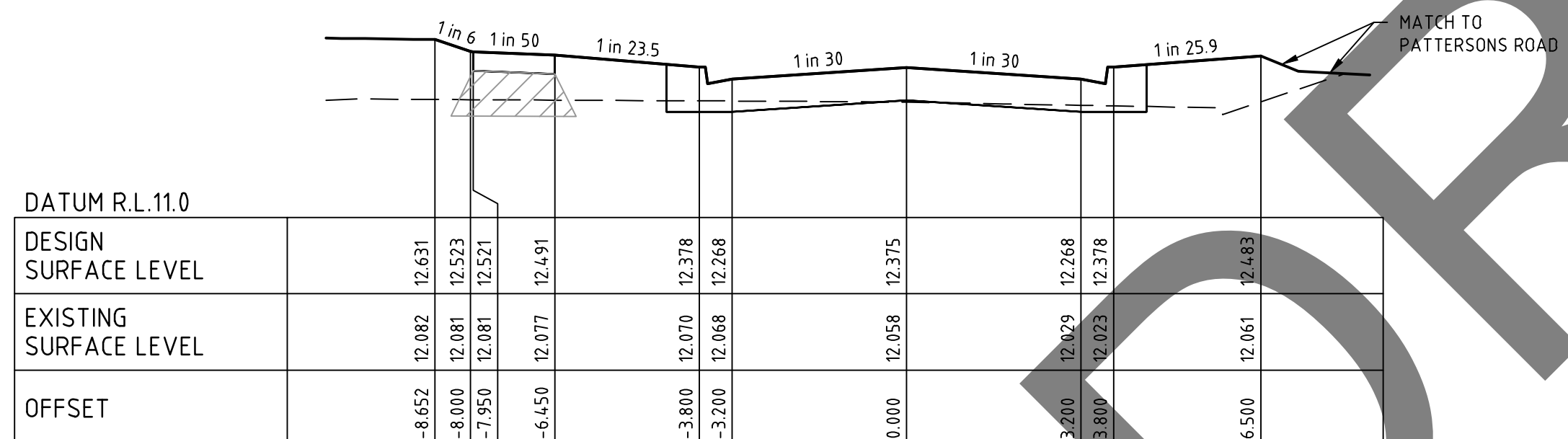
STRUCTURAL FILL IN ACCORDANCE
WITH AS3798-2007, LEVEL 1



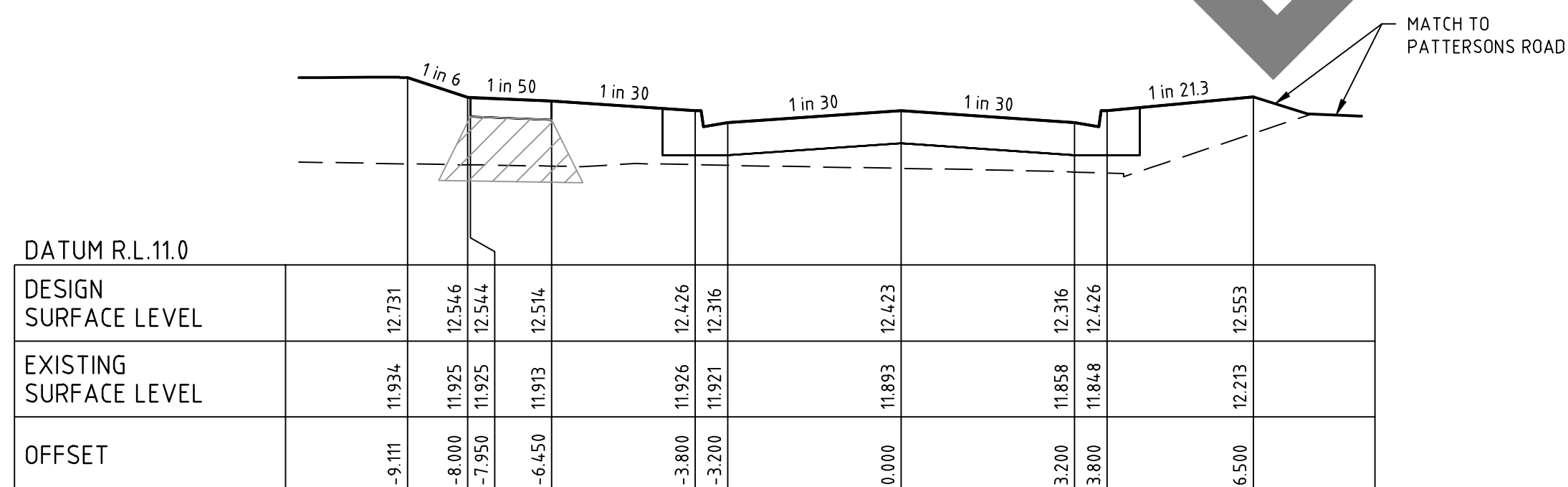
VELA AVENUE CH 331.02



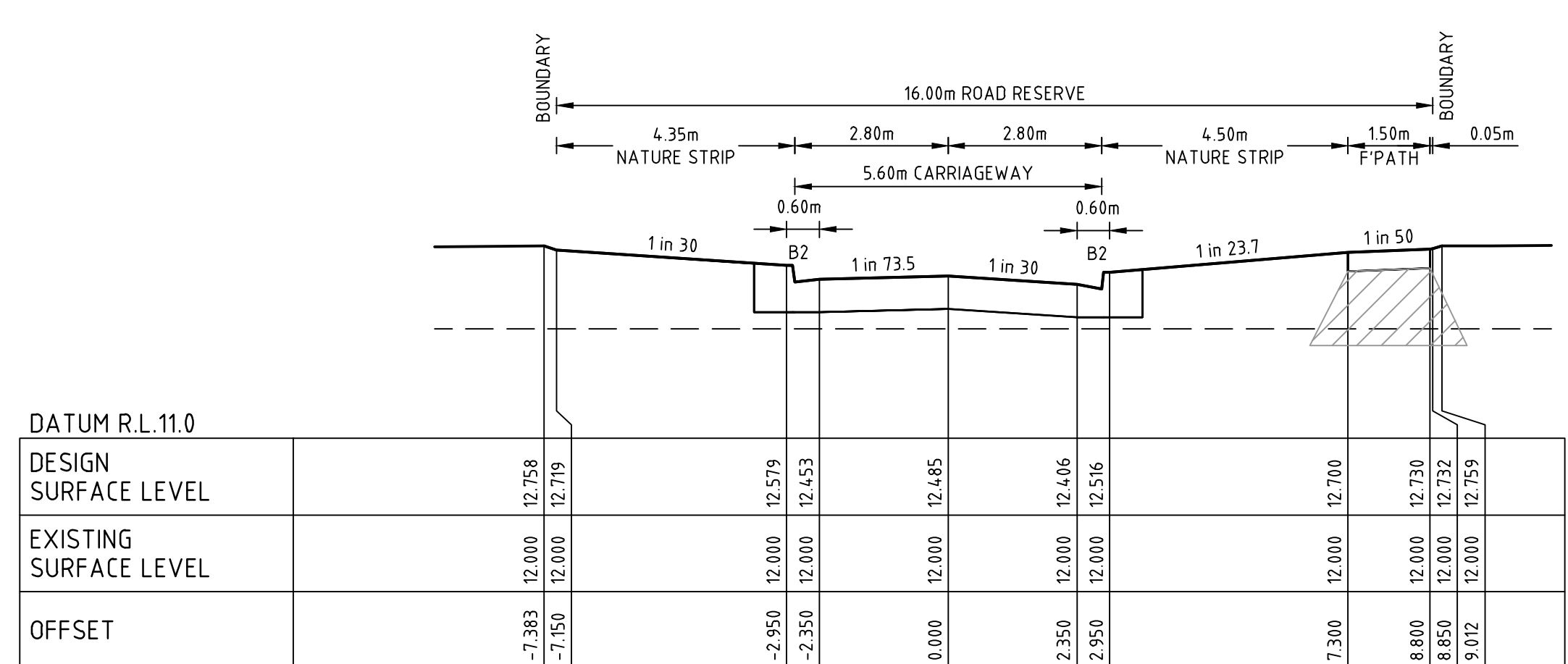
VELA AVENUE CH 279.44



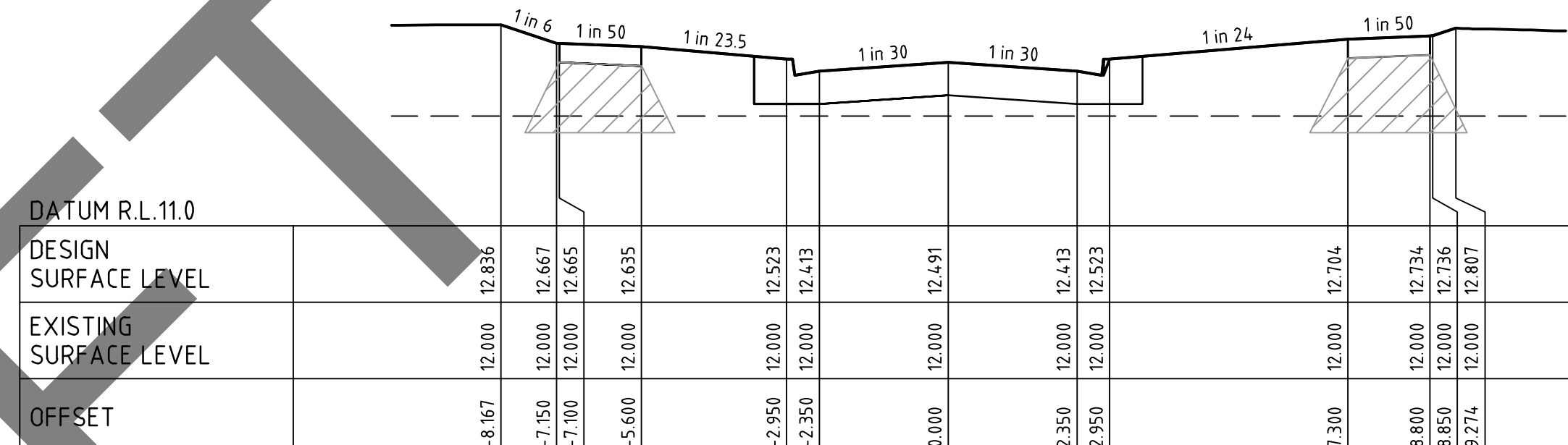
VELA AVENUE CH 265.10



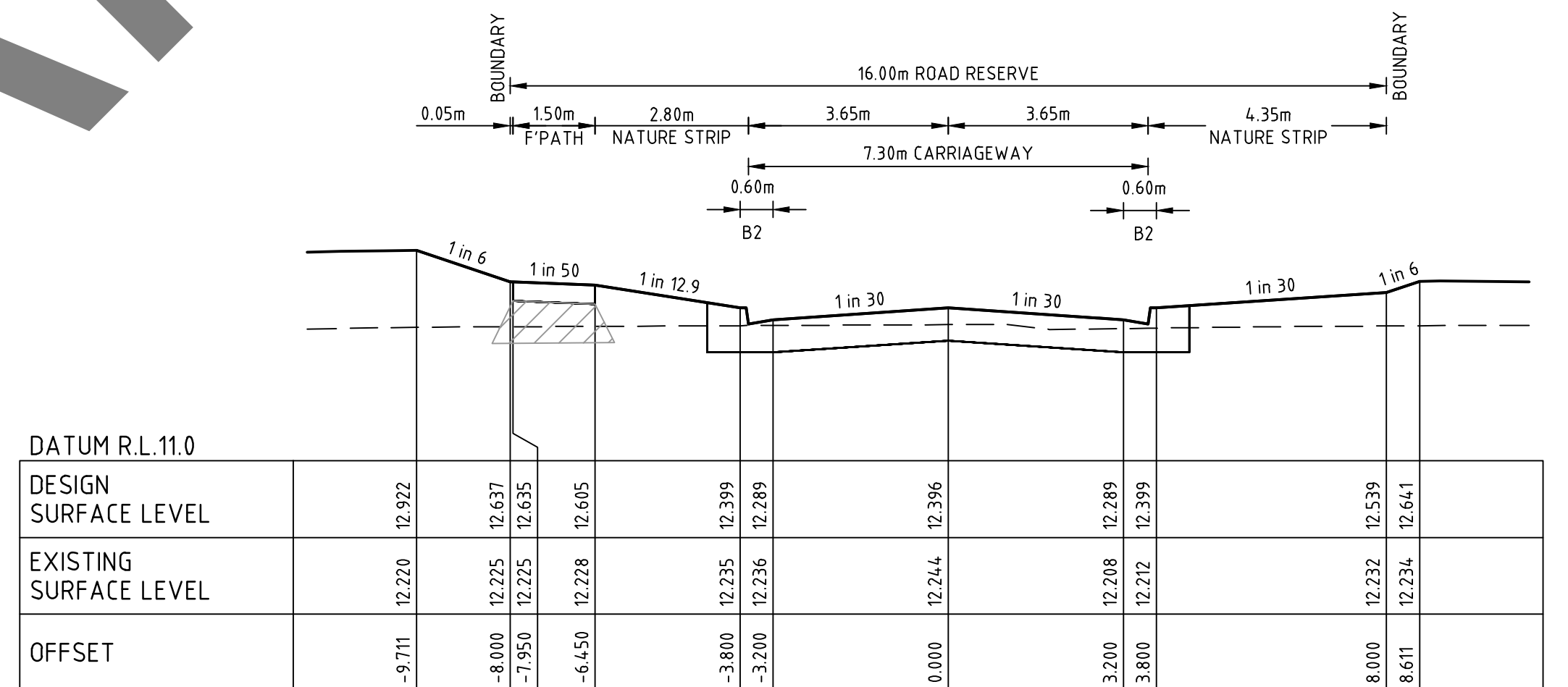
VELA AVENUE CH 250.01



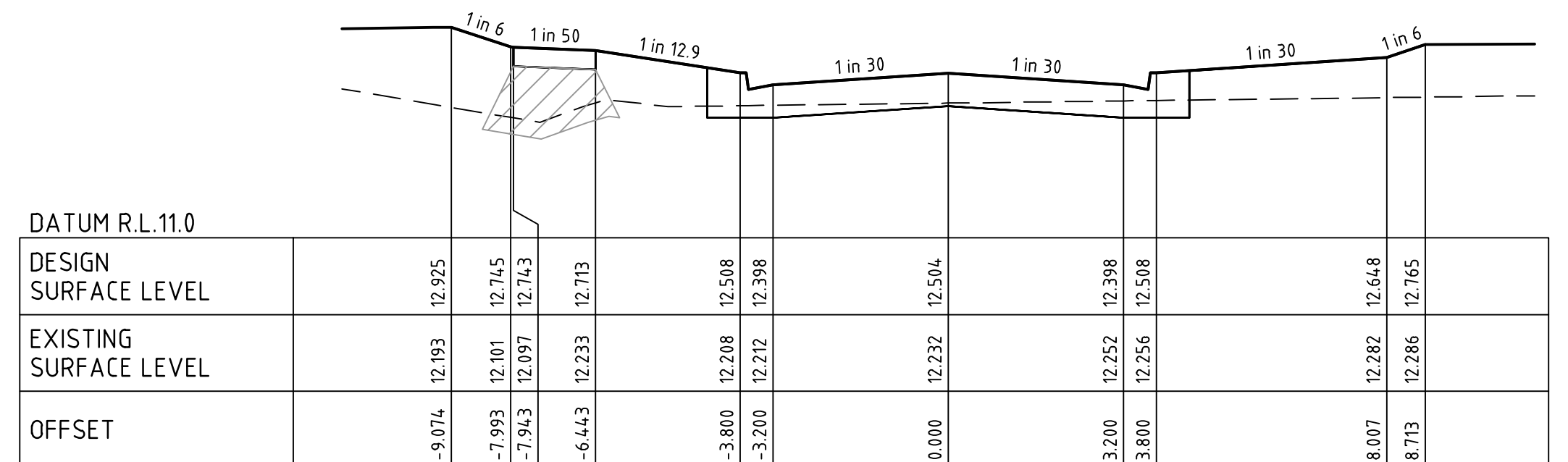
VELA AVENUE CH 580.83



VELA AVENUE CH 566.93



VELA AVENUE CH 546.63



VELA AVENUE CH 524.98

B	ISSUED TO COUNCIL	T.A	30/07/25
A	ISSUED FOR TENDER	T.A	21/03/25
Rev	Amendments	Approved	Date



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Designed	D.RAWAT
Authorised	T.ABBOTT

Checked
B.WARNAKULASURIYA
Date
JULY 2025

**ALMA ESTATE
STAGE 1
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 5
CASEY CITY COUNCIL
SIG GROUP**

PRELIMINARY Drg No 322764-001CR405

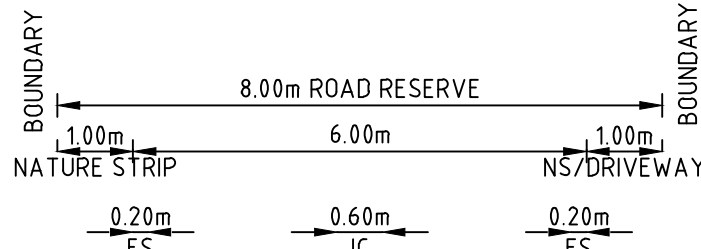
Rev

B

File name 322764-001CR400.dwg layout name CR405 plotted by Deepak Rawat
File location G:\321322764\001\Civil\ACAD plot date 30/07/2025 5:43 PM Sheet 1 of 1 Sheets

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

 STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



DATUM R.L.12.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

CAPELLA LANE

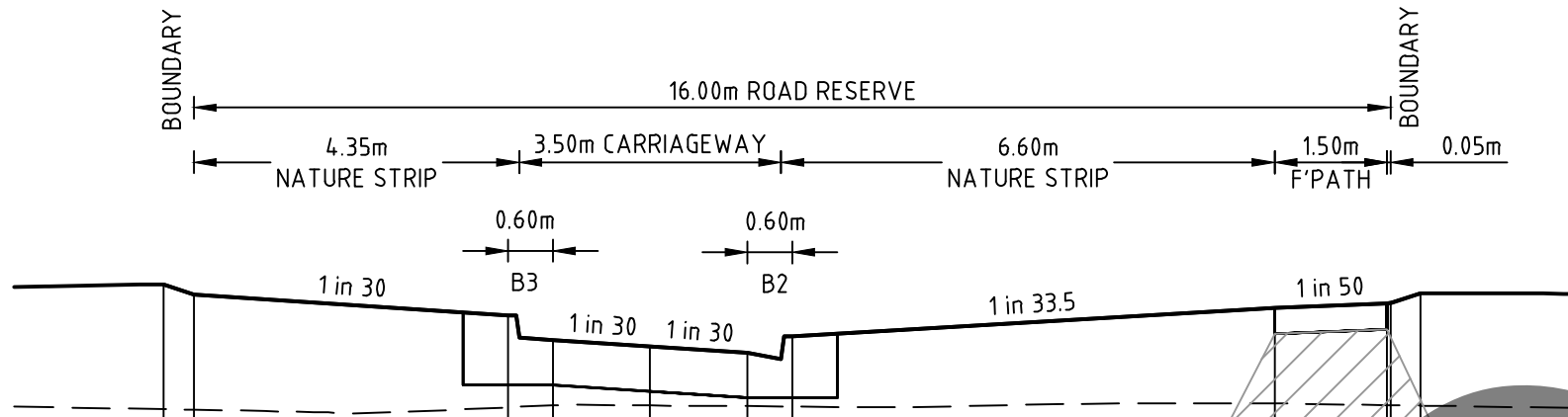
CH 35.00



DATUM R.L.12.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

CAPELLA LANE

CH 17.00



DATUM R.L.11.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

VELA AVENUE

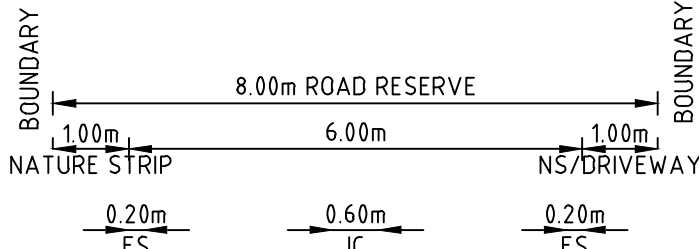
CH 596.80



DATUM R.L.11.0	
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EXISTING SURFACE LEVEL	
OFFSET	

VELA AVENUE

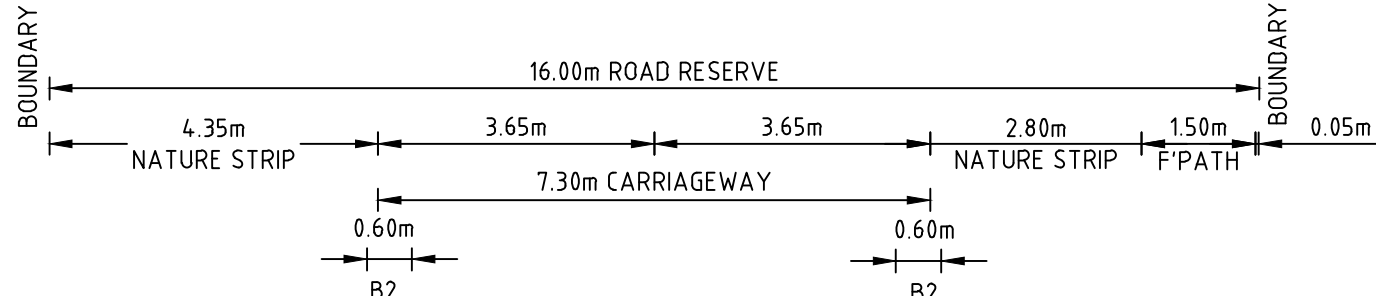
CH 590.28



DATUM R.L.12.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

CAPELLA LANE

CH 59.00



DATUM R.L.11.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

HADAR WAY

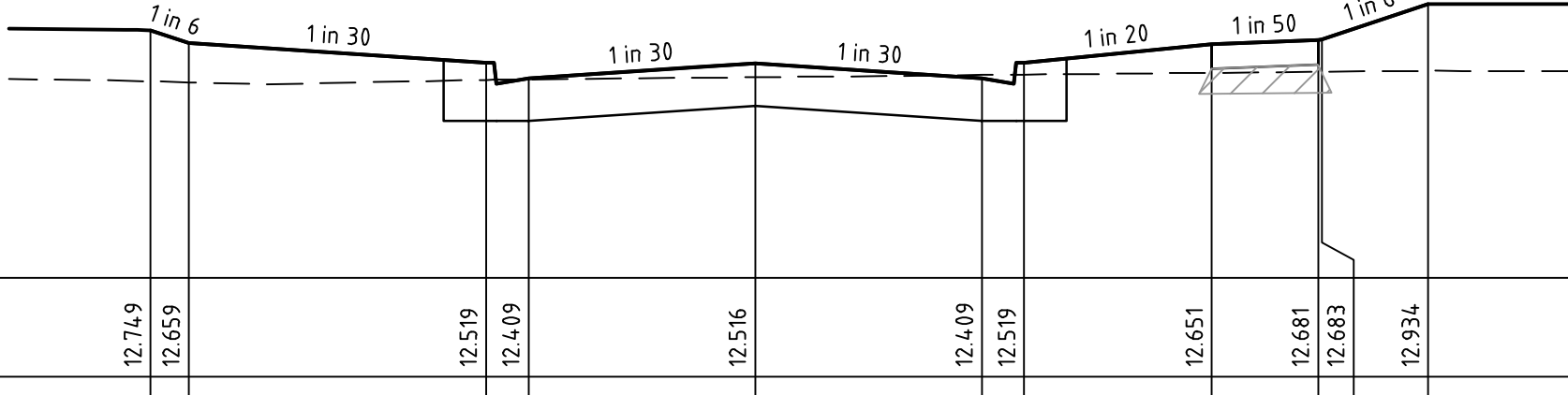
CH 64.21



DATUM R.L.11.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

HADAR WAY

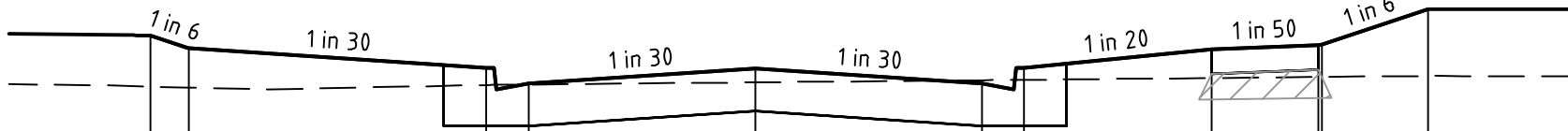
CH 32.51



DATUM R.L.11.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

HADAR WAY

CH 11.81



DATUM R.L.11.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

HADAR WAY

CH 11.79

file name: 322764-001CR406.dwg; layout name: C:\Users\pawel\OneDrive\Documents\322764-001.dwg; plot date: 30/07/2025 5:43 PM; Sheet 1 of 1; Sheets

Scale

H 1:100
SCALE @ A1
V 1:50



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Designed
D.RAWAT
Authorised
T.ABBOTT

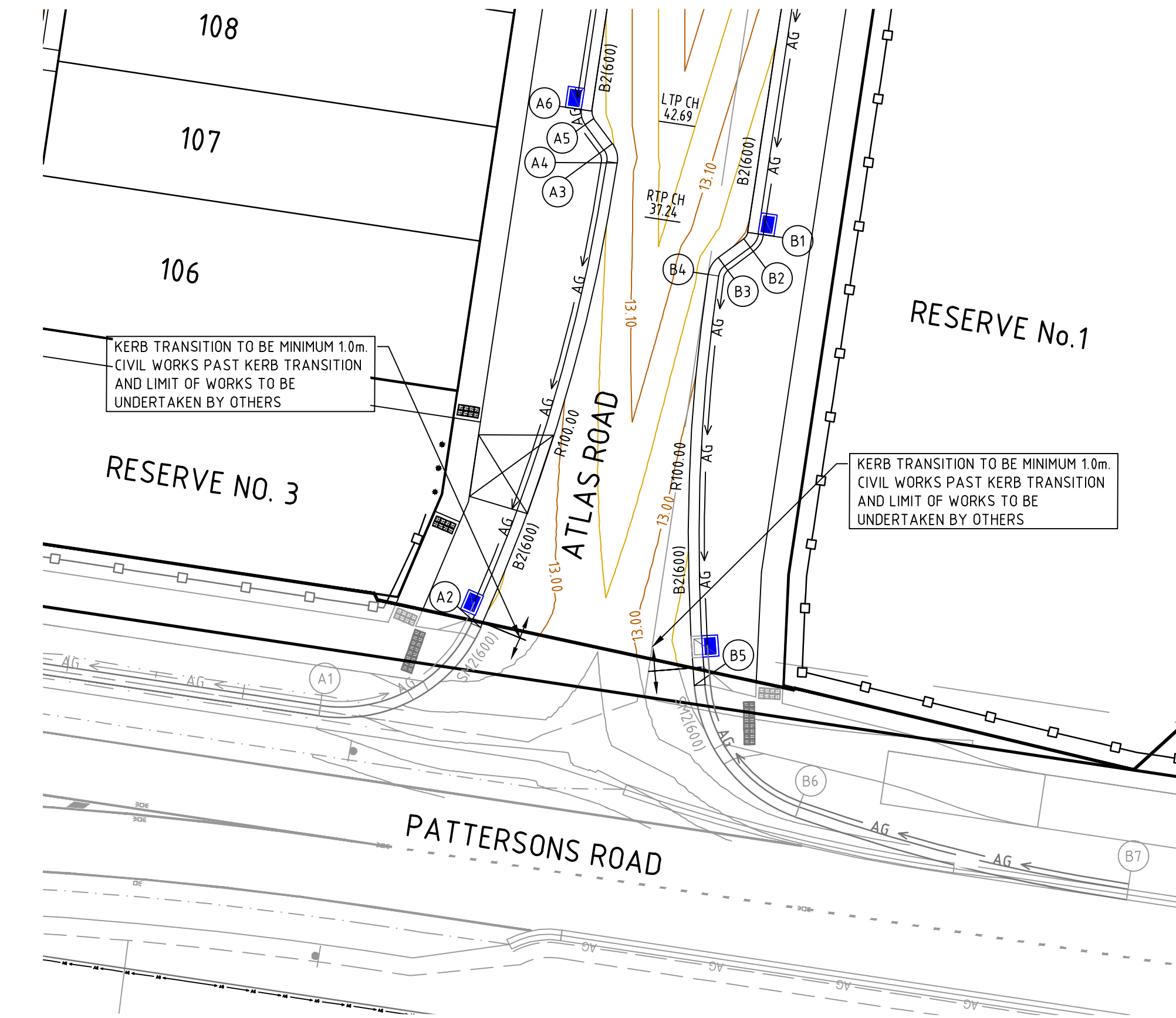
Checked
B.WARNAKULASURIYA
Date
JULY 2025

**ALMA ESTATE
STAGE 1
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 5
CASEY CITY COUNCIL
SIG GROUP**

PRELIMINARY Drg No 322764-001CR406

Rev
B

file name: 322764-001CR500.dwg, layout name: CR500, plotted by: Durgesh Rawat,
file location: G:\322764\001\CR500\plot_data\30/07/2025 5:43 PM Sheet 16 of 27 Sheets



BY OTHERS
AS PART OF PATTERSONS RD
UPGRADE WORKS

STAGE 1

LIMIT OF WORKS

VERTICAL GEOMETRY

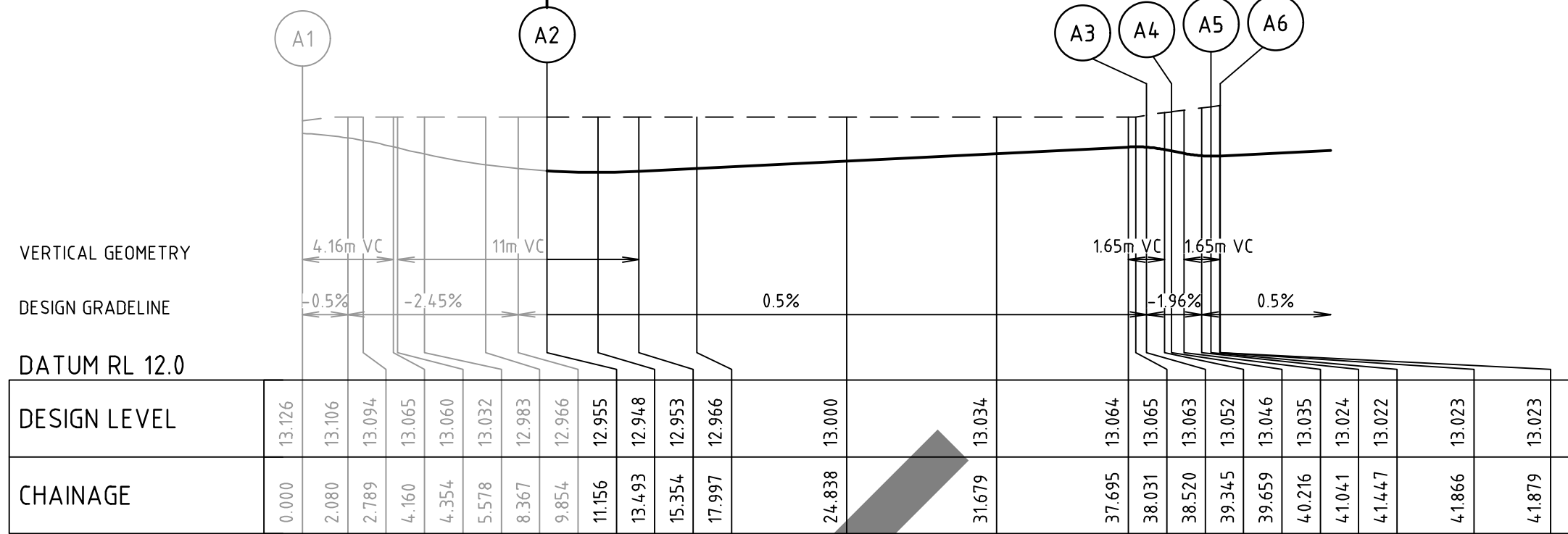
DESIGN GRADELINE

DATUM RL 12.0

DESIGN LEVEL

CHAINAGE

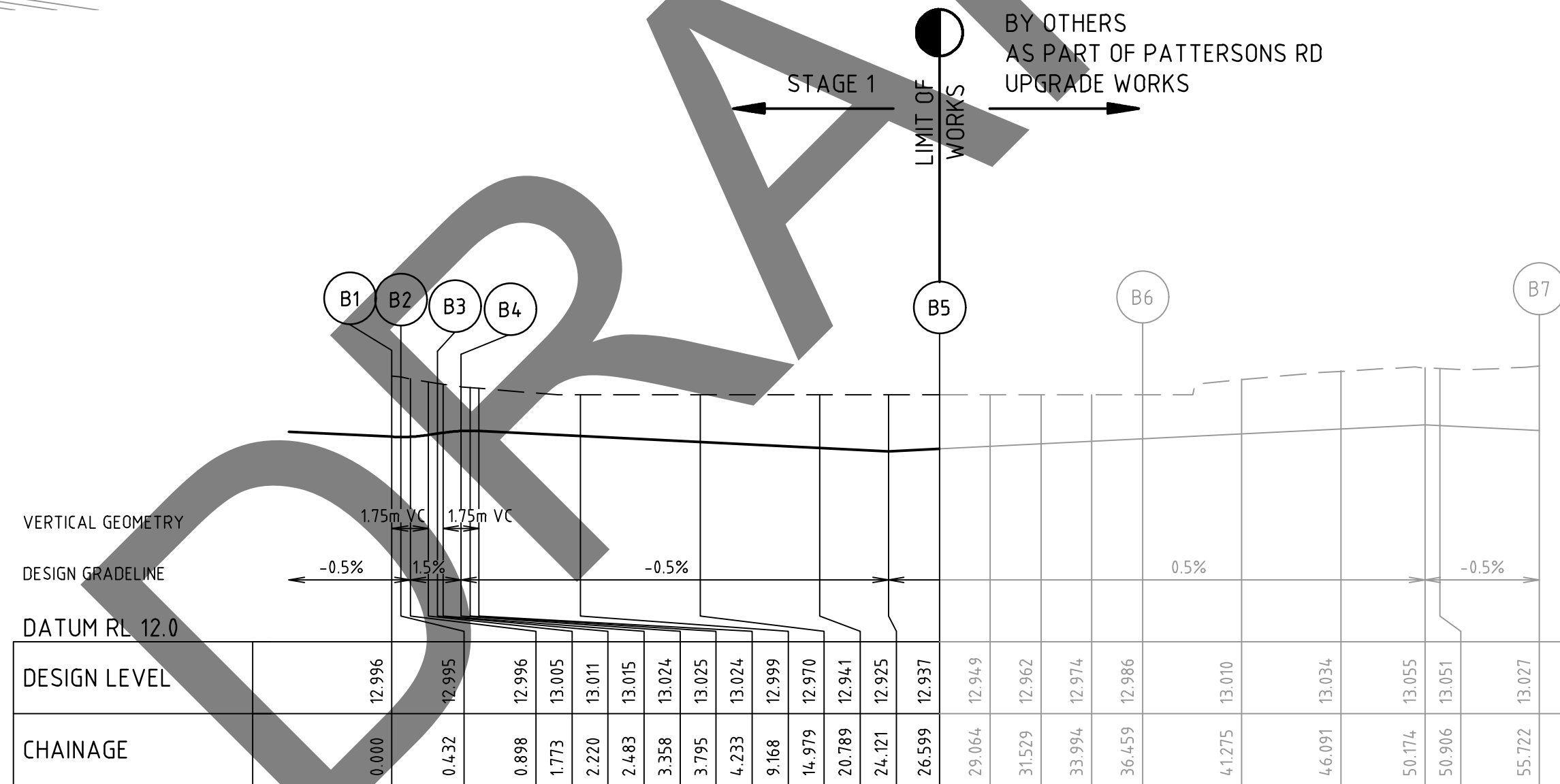
ALIGNMENT A



ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	357868.611	5779077.929	13.126
1/4	357871.388	5779077.966	13.094
1/2	357874.008	5779078.886	13.032
3/4	357876.198	5779080.592	12.983
A2	357877.731	5779082.907	12.955
1/4	357880.321	5779089.238	12.966
1/2	357882.472	5779095.730	13.000
3/4	357884.174	5779102.355	13.034
A3	357885.420	5779109.080	13.063
A4	357885.152	5779110.157	13.046
A5	357884.089	5779111.595	13.022
A6	357883.988	5779112.003	13.023

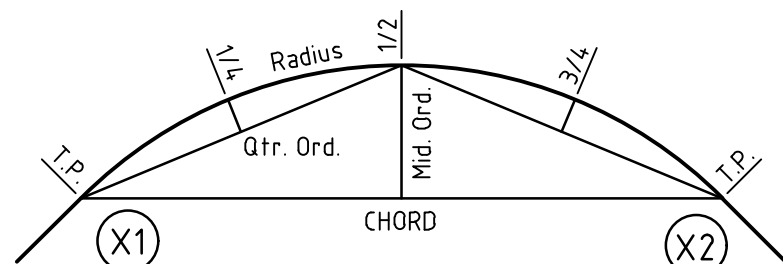
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	8.600	11.156	10.390	1.746	-0.448
A2-A3	100.000	27.364	27.279	0.935	-0.234
A3-A4	1.450	1.139	1.110	0.110	-0.028
A5-A6	0.550	0.432	0.421	0.042	0.011



ALIGNMENT B

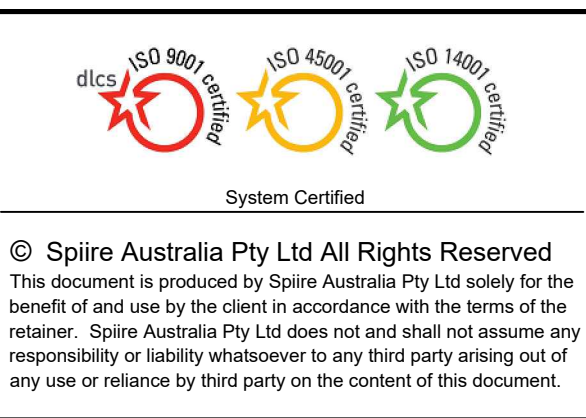
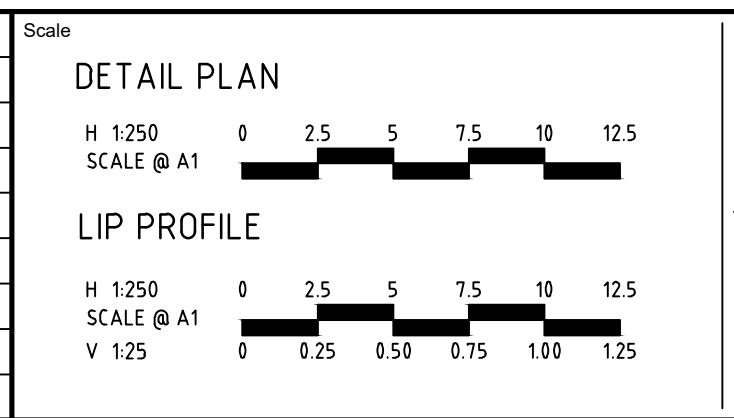
POINT NO	EASTING	NORTHING	RL
B1	357892.772	5779105.174	12.996
B2	357892.555	5779104.814	12.995
B3	357891.117	5779103.751	13.011
B4	357890.545	5779102.801	13.024
1/4	357889.846	5779097.034	12.999
1/2	357889.483	5779091.235	12.970
3/4	357889.458	5779085.426	12.941
B5	357889.770	5779079.624	12.937
1/4	357890.321	5779077.230	12.949
1/2	357891.526	5779075.090	12.962
3/4	357893.287	5779073.377	12.974
B6	357895.460	5779072.232	12.986
1/4	357900.035	5779070.729	13.010
1/2	357904.676	5779069.448	13.034
3/4	357909.374	5779068.391	13.051
B7	357914.118	5779067.563	13.027

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B1-B2	0.550	0.432	0.421	0.042	0.011
B3-B4	1.450	1.138	1.109	0.110	-0.028
B4-B5	100.000	23.242	23.190	0.674	-0.169
B5-B6	8.600	9.860	9.328	1.375	-0.351
B6-B7	100.000	19.263	19.233	0.463	-0.116



KERB RETURN SETOUT DETAIL

Rev	Amendments	Approved	Date
B	ISSUED TO COUNCIL	T.A	30/07/25
A	ISSUED FOR TENDER	T.A	21/03/25



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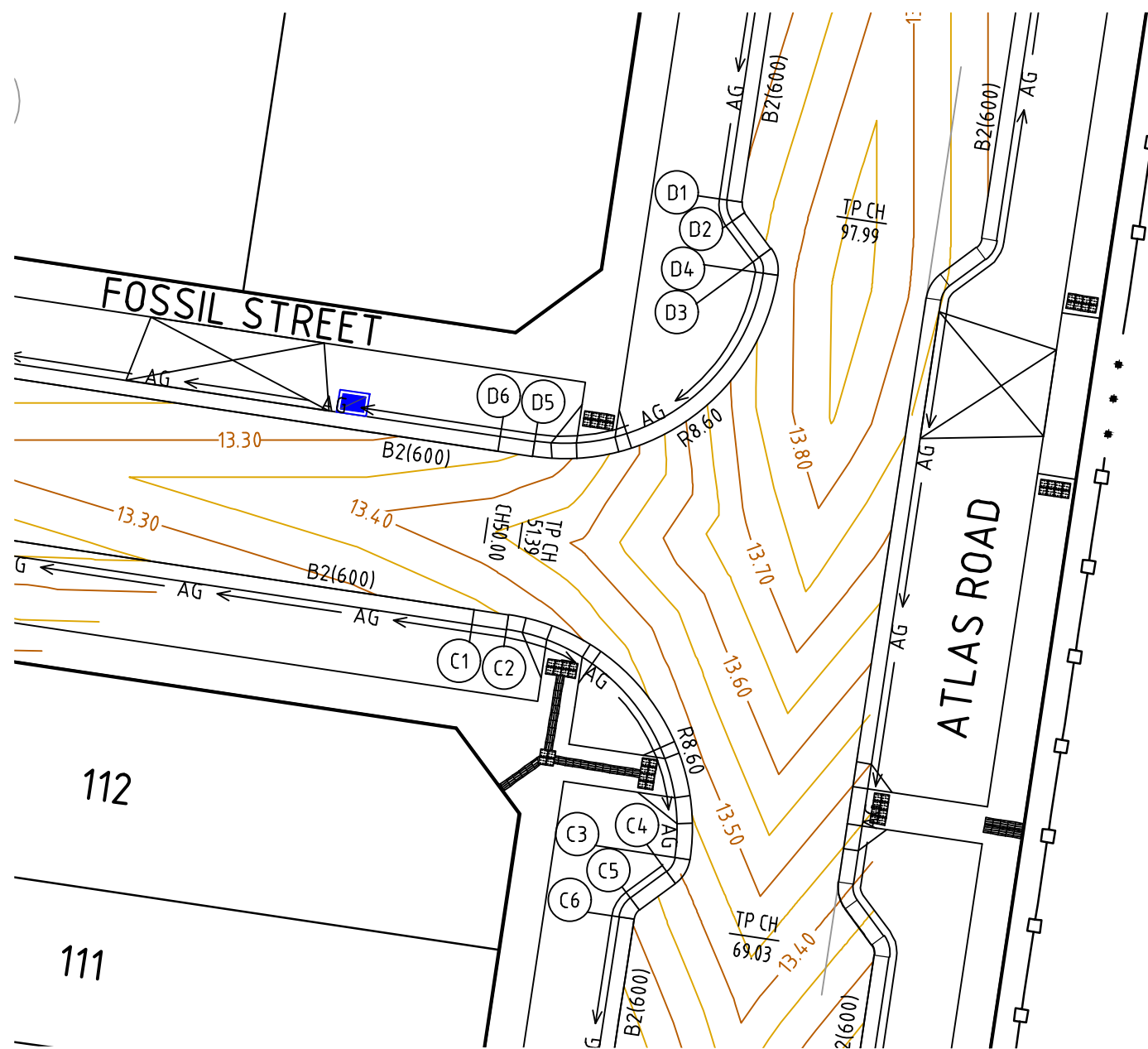


Designed D.RAWAT	Checked B.WARNAKULASURIYA
Authorised T.ABBOTT	Date JULY 2025

**ALMA ESTATE
STAGE 1
ROAD & DRAINAGE
INTERSECTION DETAILS - SHEET 1**
CASEY CITY COUNCIL
SIG GROUP

PRELIMINARY Drg No 322764-001 CR500 Rev B

file name: 322764-001CR500.dwg, layout name: CR501, plotted by: Doreen Revett, file location: G:\322764\001\CR501.dwg, plot date: 30/07/2025 5:43 PM, Sheet 17 of 27 Sheets



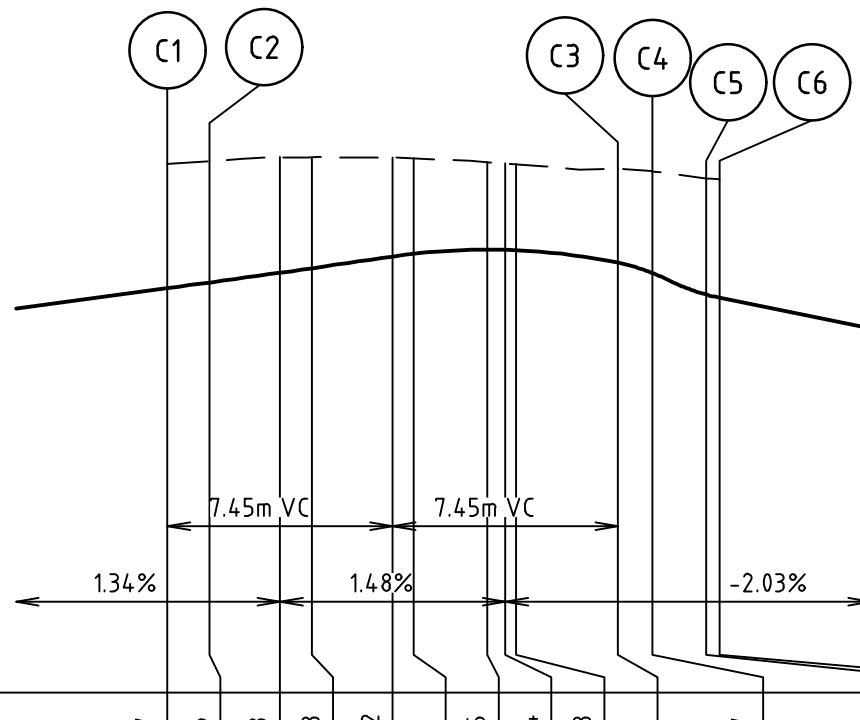
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 12.0

DESIGN LEVEL	13.337	13.355	13.388	13.403	13.442	13.451	13.465	13.464	13.463	13.421	13.387	13.315	13.305
CHAINAGE	0.000	1.396	3.726	4.773	7.452	8.150	10.590	11.179	11.527	14.905	16.044	17.831	18.263

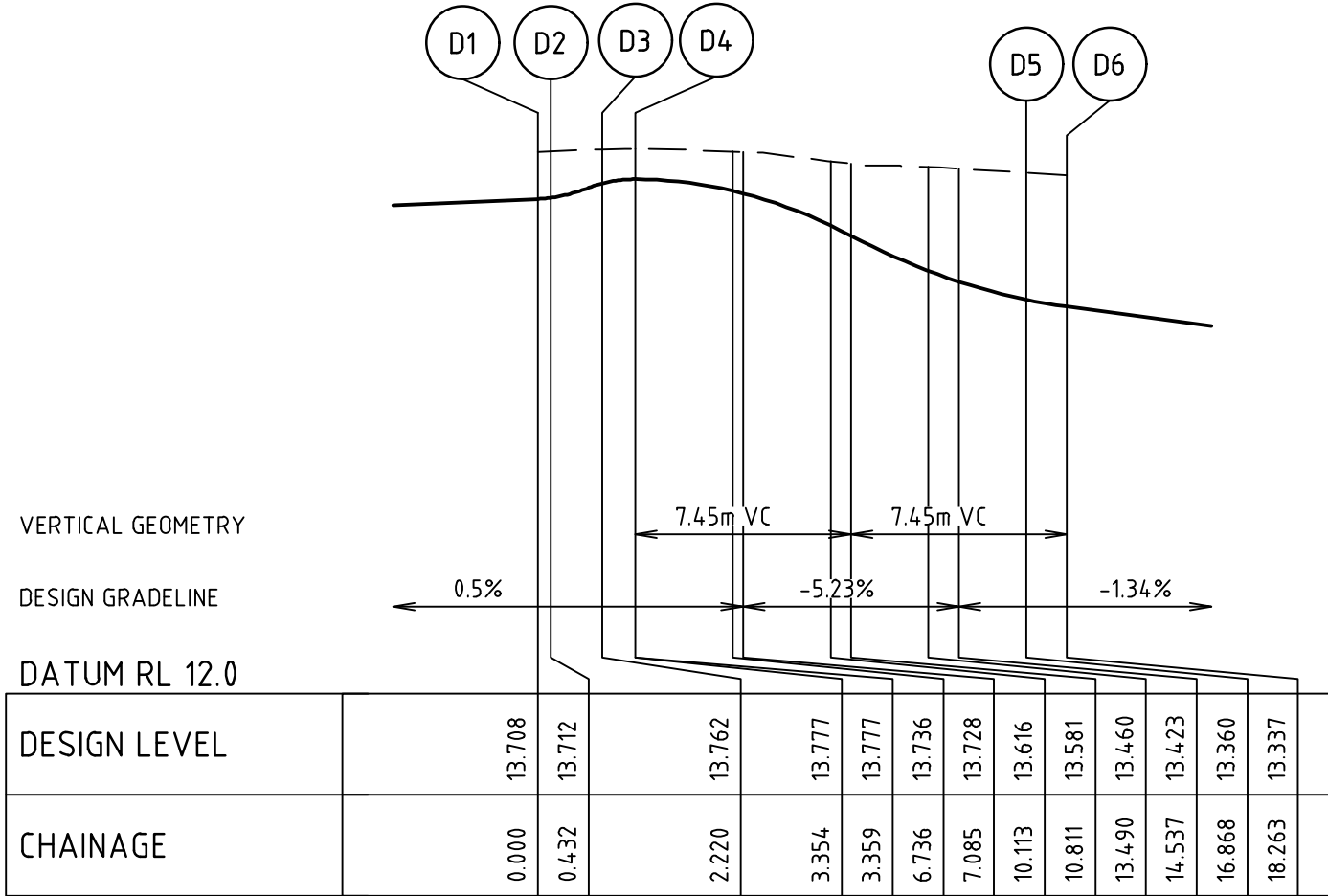
ALIGNMENT C



ALIGNMENT C

POINT NO	EASTING	NORTHING	RL
C1	357881.514	5779150.418	13.337
C2	357882.895	5779150.211	13.355
1/4	357886.052	5779149.075	13.403
1/2	357888.535	5779146.817	13.451
3/4	357889.964	5779143.782	13.463
C3	357890.124	5779140.430	13.421
C4	357889.551	5779139.479	13.387
C5	357888.114	5779138.416	13.315
C6	357887.897	5779138.055	13.305

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C2-C3	8.600	13.509	12.162	2.519	0.655
C3-C4	1.450	1.139	1.110	0.110	0.028
C5-C6	0.550	0.432	0.421	0.042	-0.011



VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 12.0

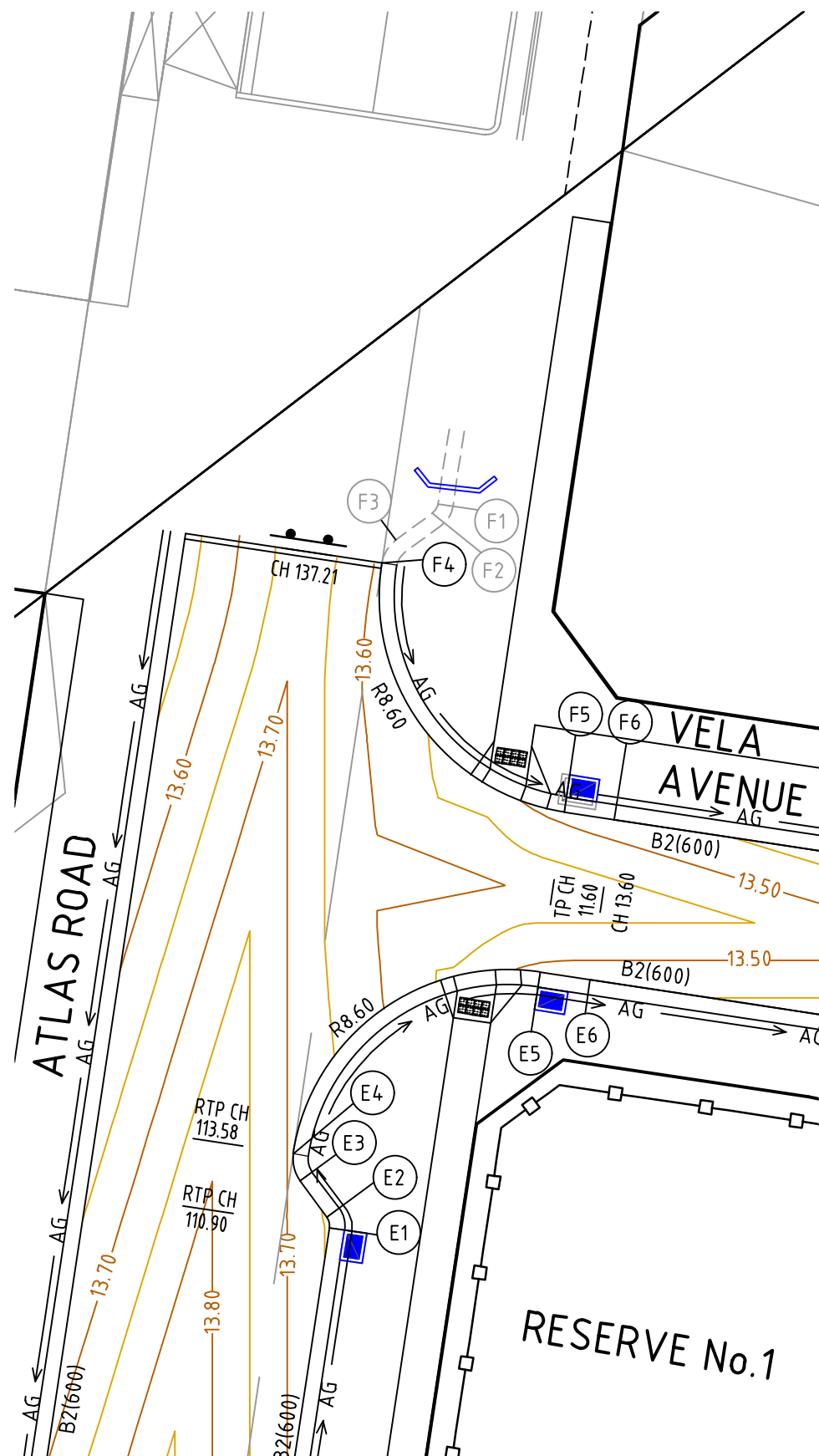
DESIGN LEVEL	13.708	13.712	13.762	13.777	13.736	13.728	13.616	13.581	13.460	13.423	13.360	13.337
CHAINAGE	0.000	0.432	2.220	3.354	3.359	6.736	7.085	10.113	10.811	13.490	14.537	16.868

ALIGNMENT D

ALIGNMENT D

POINT NO	EASTING	NORTHING	RL
D1	357892.193	5779166.692	13.708
D2	357892.295	5779166.283	13.712
D3	357893.357	5779164.846	13.762
D4	357893.625	5779163.769	13.777
1/4	357892.490	5779160.611	13.736
1/2	357890.232	5779158.128	13.616
3/4	357887.196	5779156.699	13.460
D5	357883.844	5779156.540	13.360
D6	357882.464	5779156.747	13.337

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D1-D2	0.550	0.432	0.421	0.042	-0.011
D3-D4	1.450	1.139	1.110	0.110	0.028
D4-D5	8.600	13.509	12.162	2.519	0.655



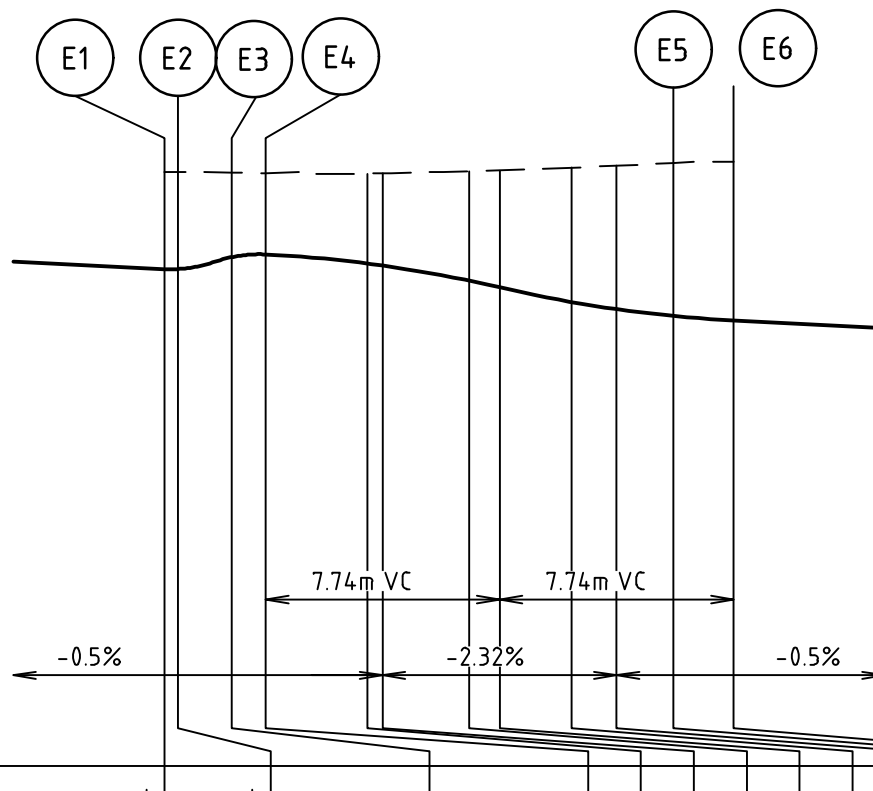
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 12.0

DESIGN LEVEL	13.644	13.644	13.683	13.692	13.662	13.655	13.605	13.593	13.555	13.511	13.489	13.474
CHAINAGE	0.000	0.432	2.220	3.344	6.712	7.242	10.081	11.081	13.449	14.949	16.818	18.818

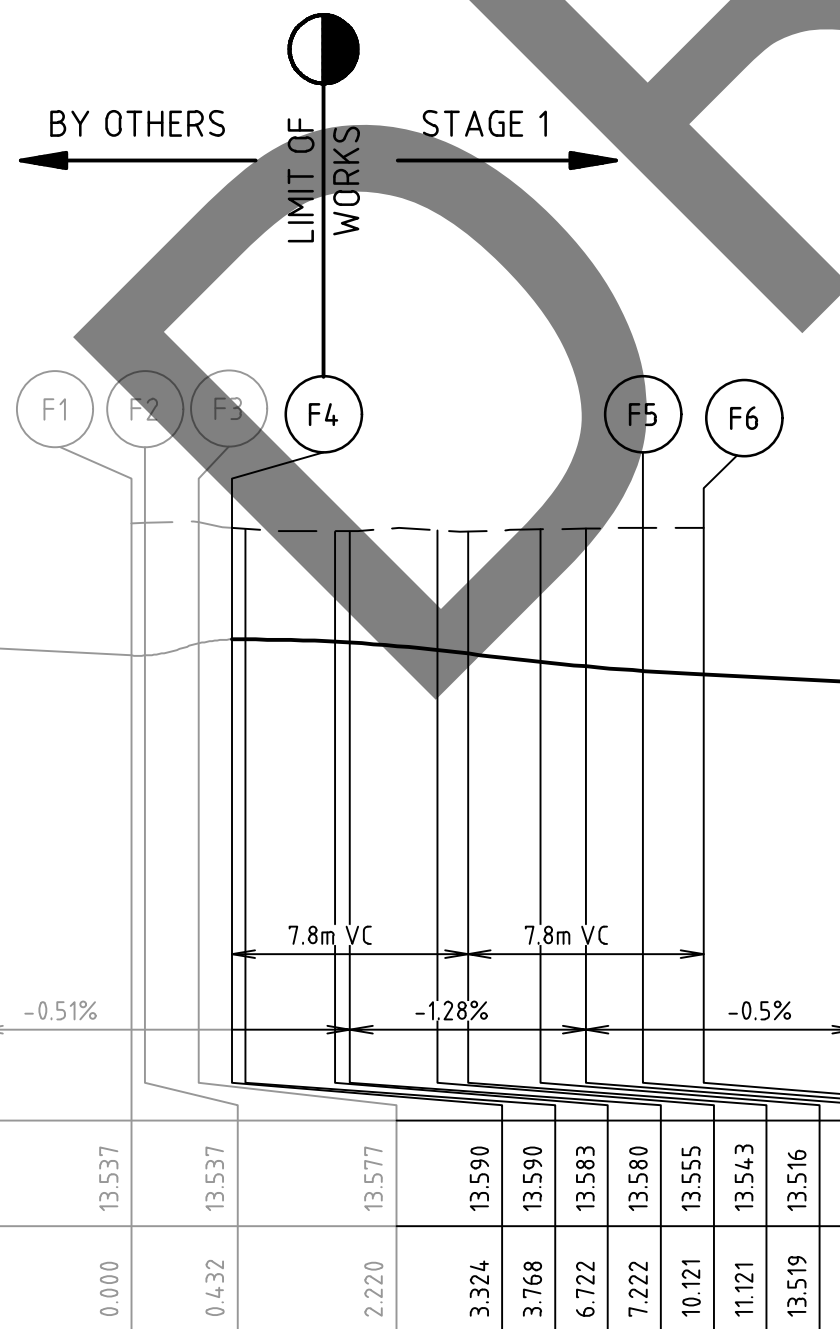
ALIGNMENT E



ALIGNMENT E

POINT NO	EASTING	NORTHING	RL
E1	357903.701	5779178.016	13.644
E2	357903.599	5779178.425	13.644
E3	357902.537	5779179.862	13.683
E4	357902.267	5779180.925	13.692
1/4	357903.411	5779184.070	13.662
1/2	357905.669	5779186.541	13.605
3/4	357908.699	5779187.962	13.535
E5	357912.042	5779188.119	13.489
E6	357914.020	5779187.822	13.474

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
E1-E2	0.550	0.432	0.421	0.042	-0.011
E3-E4	1.450	1.124	1.096	0.108	0.027
E4-E5	8.600	13.473	12.137	2.506	0.651



VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 12.0

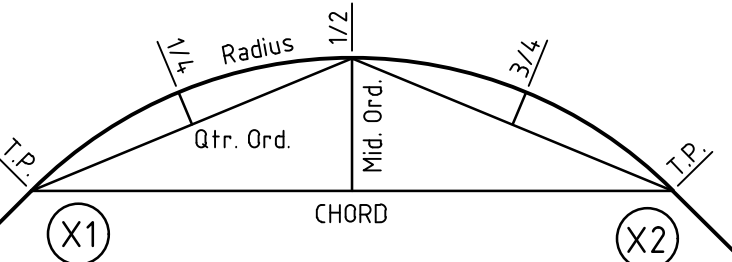
DESIGN LEVEL	13.537	13.537	13.577	13.590	13.590	13.583	13.580	13.555	13.543	13.516	13.501	13.486	13.474
CHAINAGE	0.000	0.432	2.220	3.324	3.768	6.722	7.222	10.121	11.121	13.519	15.019	16.918	18.917

ALIGNMENT F

ALIGNMENT F

POINT NO	EASTING	NORTHING	RL
F1	357907.997	5779206.653	13.537
F2	357907.780	5779206.292	13.537
F3	357906.342	5779205.229	13.577
F4	357905.776	5779204.313	13.590
1/4	357905.907	5779200.939	13.583
1/2	357907.326	5779197.875	13.555
3/4	357909.816	5779195.595	13.516
F5	357912.992	5779194.448	13.486
F6	357914.968	5779194.139	13.474

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
F1-F2	0.550	0.432	0.421	0.042	0.011
F3-F4	1.450	1.104	1.078	0.104	-0.026
F4-F5	8.600	13.594	12.222	2.549	-0.663



KERB RETURN SETOUT DETAIL

Scale

DETAIL PLAN

H 1:250 SCALE @ A1

LIP PROFILE

H 1:250 SCALE @ A1

V 1:25



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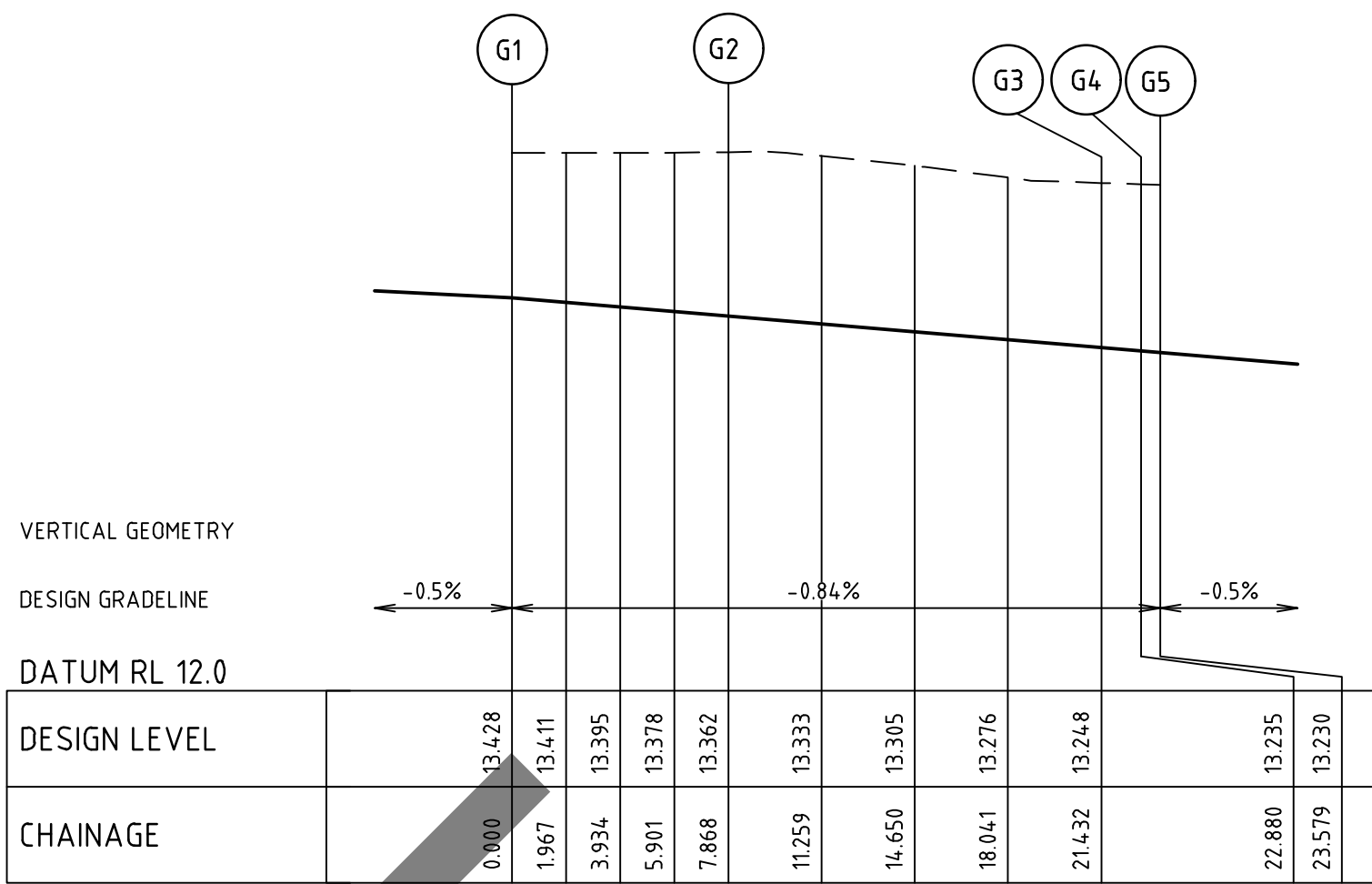
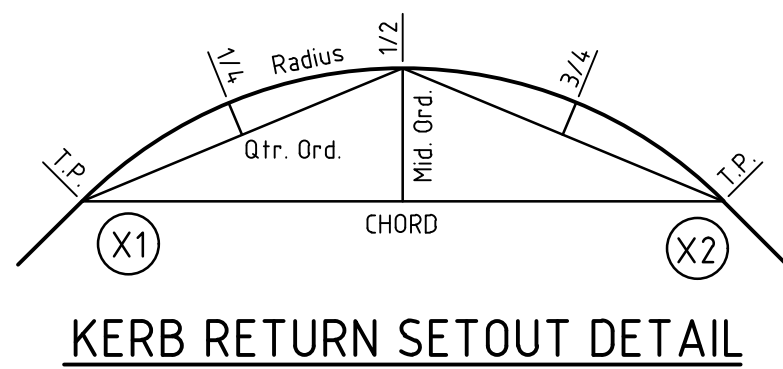
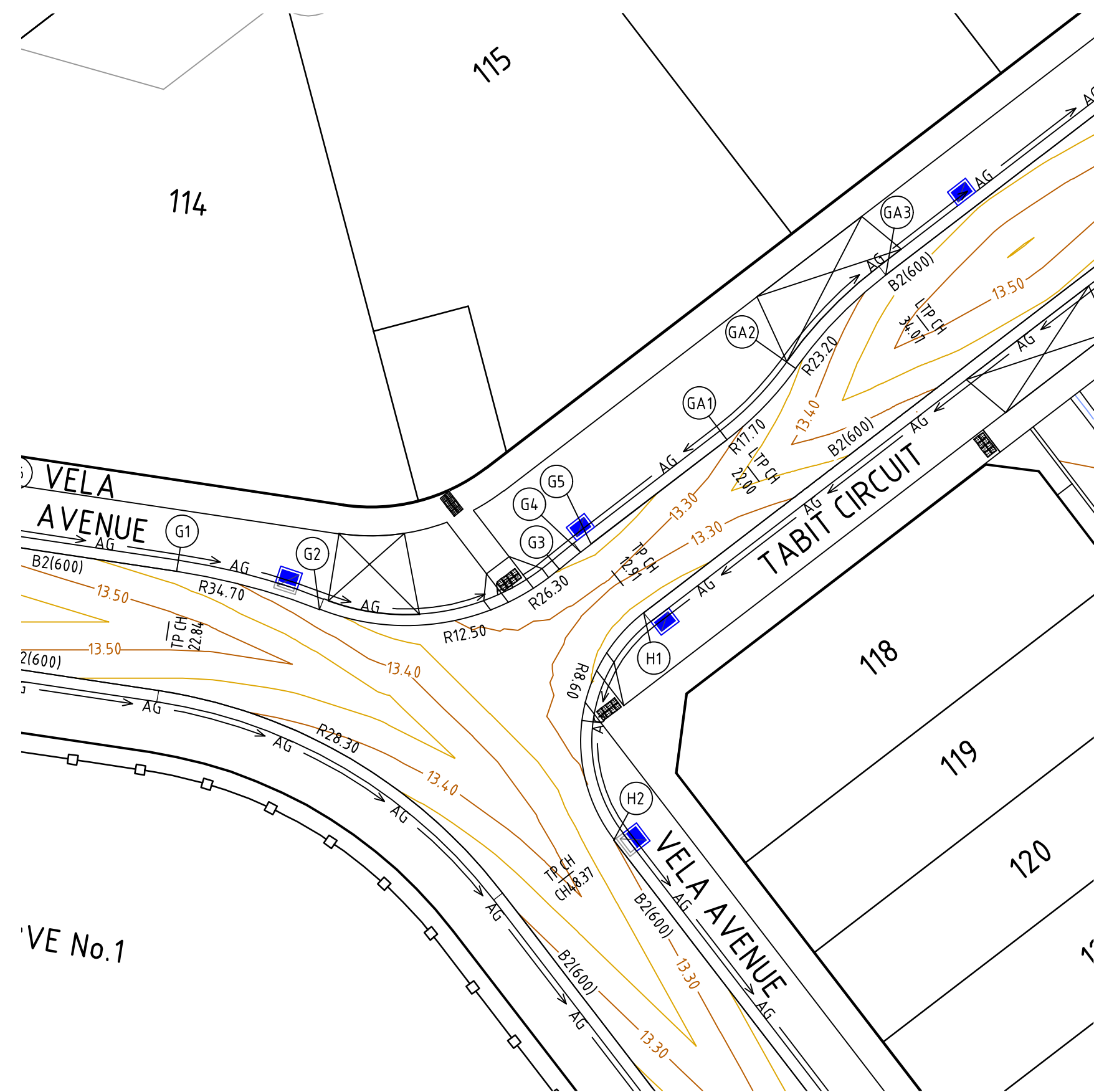


Designed
D.RAWAT
Authorised
T.ABBOTT

Checked
B.WARNAKULASURIYA
Date
JULY 2025

**ALMA ESTATE
STAGE 1
ROAD & DRAINAGE
INTERSECTION DETAILS - SHEET 2**
CASEY CITY COUNCIL
SIG GROUP

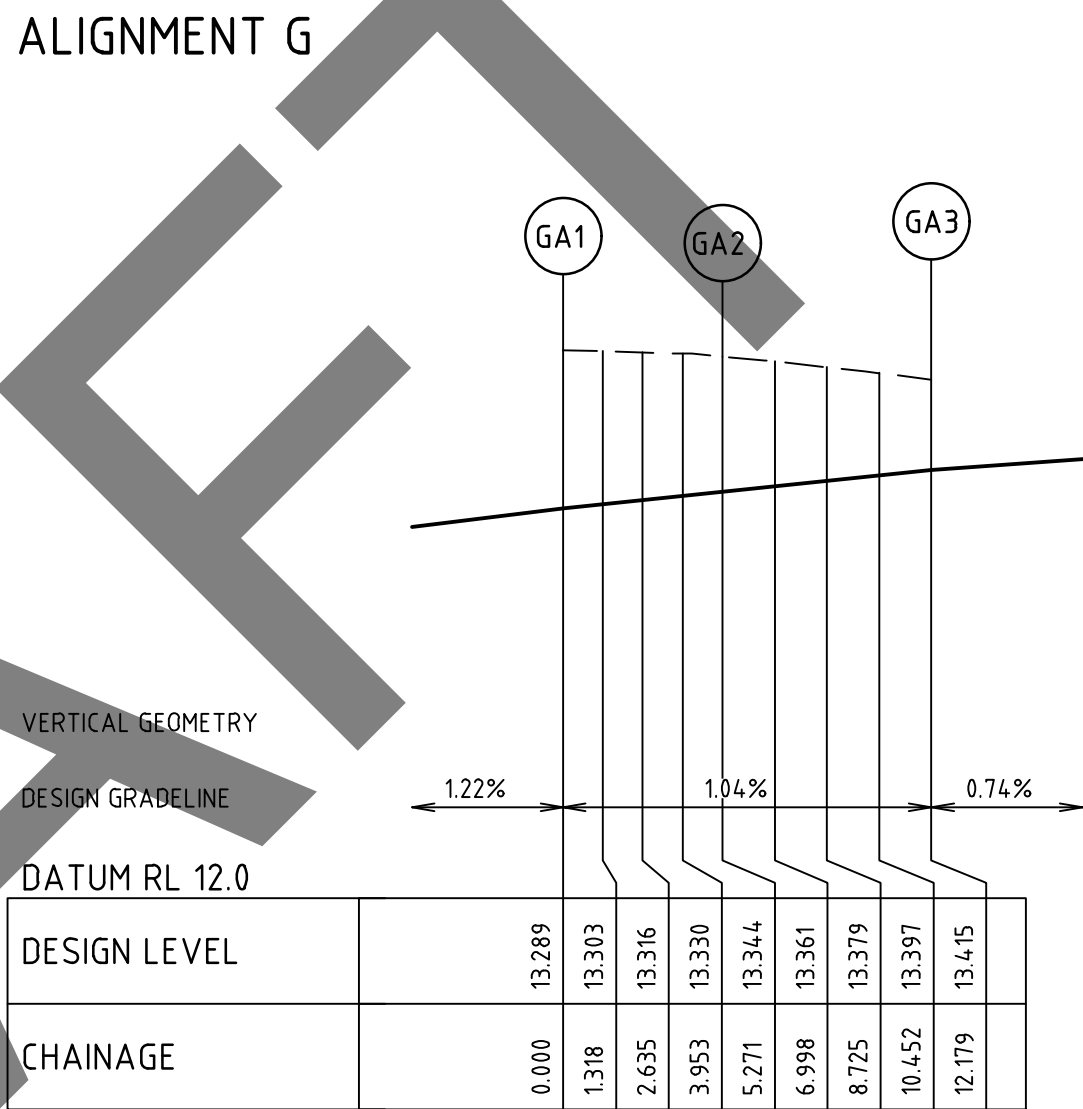
PRELIMINARY Drg No 322764-001 CR501 Rev B



ALIGNMENT G

POINT NO	EASTING	NORTHING	RL
G1	357924.109	5779192.780	13.428
1/4	357926.044	5779192.433	13.411
1/2	357927.957	5779191.977	13.395
3/4	357929.842	5779191.414	13.378
G2	357931.691	5779190.744	13.362
1/4	357934.975	5779189.941	13.333
1/2	357938.354	5779190.046	13.305
3/4	357941.581	5779191.054	13.276
G3	357944.420	5779192.889	13.248
G4	357945.544	5779193.802	13.235
G5	357946.098	5779194.227	13.230

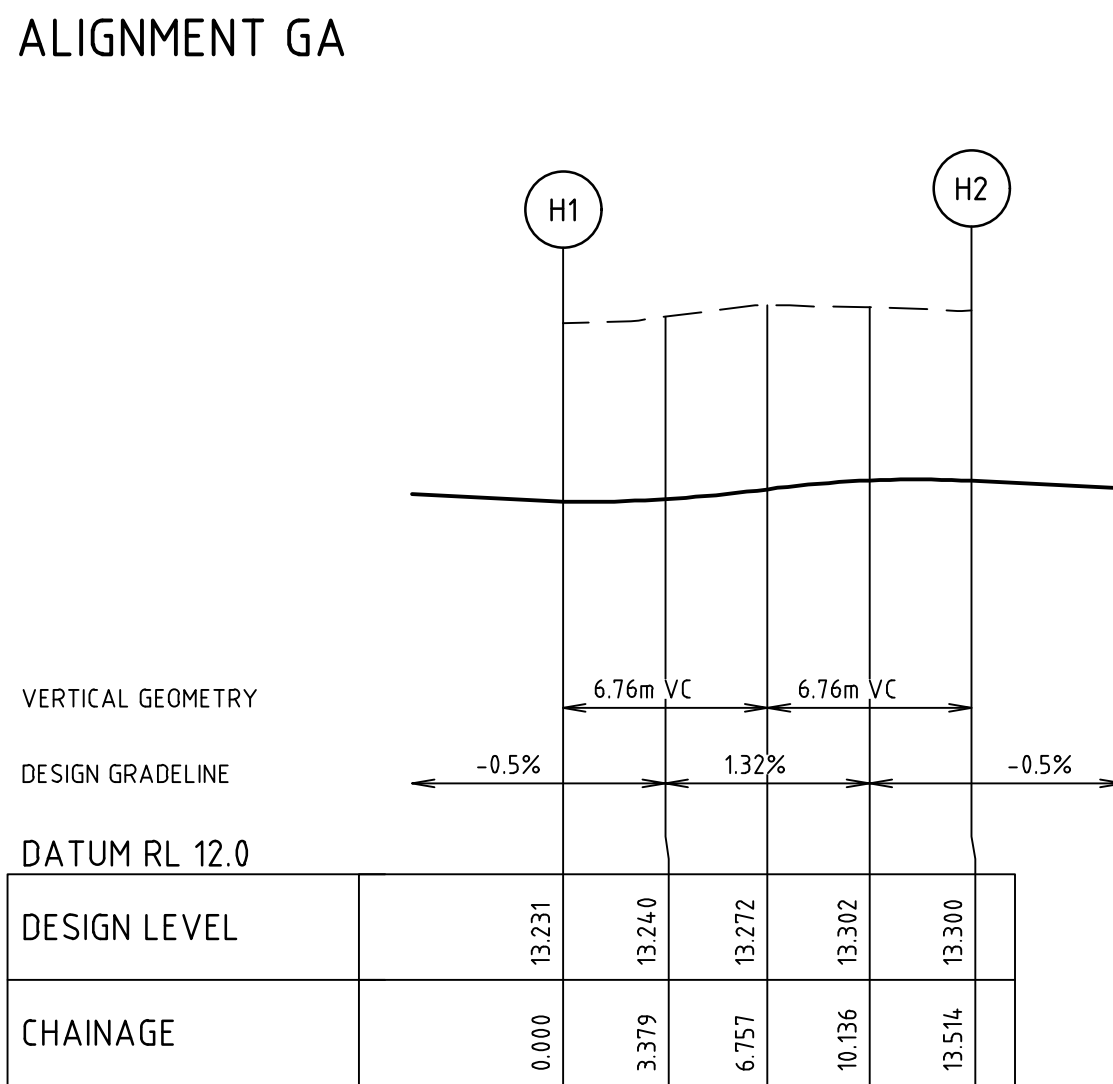
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
G1-G2	34.700	7.868	7.851	0.223	0.056
G2-G3	12.500	13.565	12.909	1.795	-0.457
G3-G4	26.300	1.448	1.448	0.010	0.002



ALIGNMENT GA

POINT NO	EASTING	NORTHING	RL
GA1	357953.315	5779199.764	13.289
1/4	357954.330	5779200.604	13.303
1/2	357955.279	5779201.518	13.316
3/4	357956.158	5779202.499	13.330
GA2	357956.961	5779203.543	13.344
1/4	357958.014	5779204.912	13.361
1/2	357959.166	5779206.198	13.379
3/4	357960.410	5779207.396	13.397
GA3	357961.740	5779208.497	13.415

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
GA1-GA2	17.700	5.271	5.251	0.196	-0.049
GA2-GA3	23.200	6.909	6.883	0.257	0.064



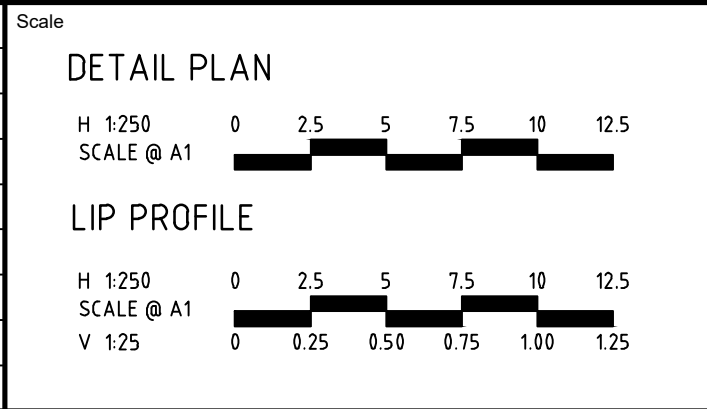
ALIGNMENT H

POINT NO	EASTING	NORTHING	RL
H1	357948.899	5779190.578	13.231
1/4	357946.685	5779188.054	13.240
1/2	357945.607	5779184.875	13.272
3/4	357945.827	5779181.525	13.302
H2	357947.314	5779178.515	13.300

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
H1-H2	8.600	13.514	12.166	2.521	-0.655

file name: 327264-001CR500.dwg, layout name: CR502, plotted by: Durgesh Rawat, file location: G:\327264\001\Cr\ALMA plot data\30/07/2025 5:43 PM Sheet 18 of 27 Sheets

Rev	Amendments	Approved	Date
B	ISSUED TO COUNCIL	T.A	30/07/25
A	ISSUED FOR TENDER	T.A	21/03/25

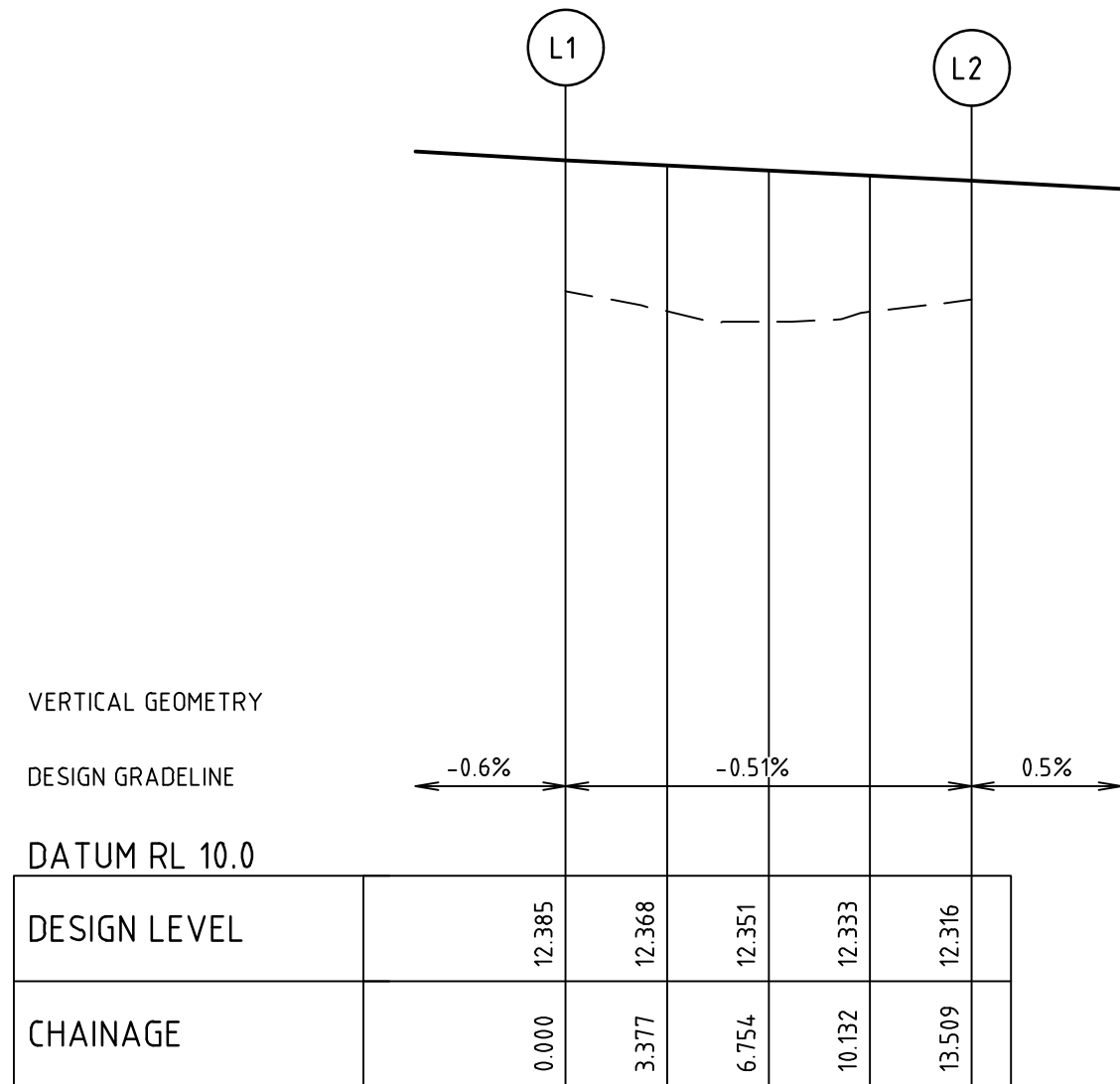
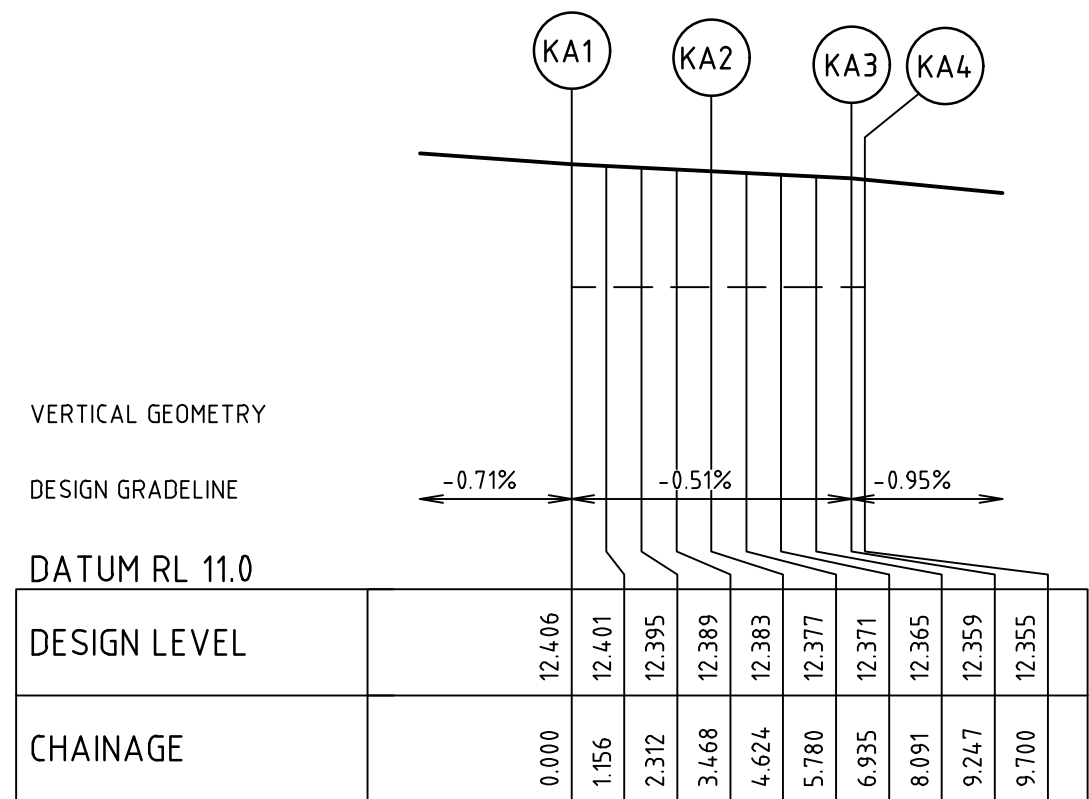
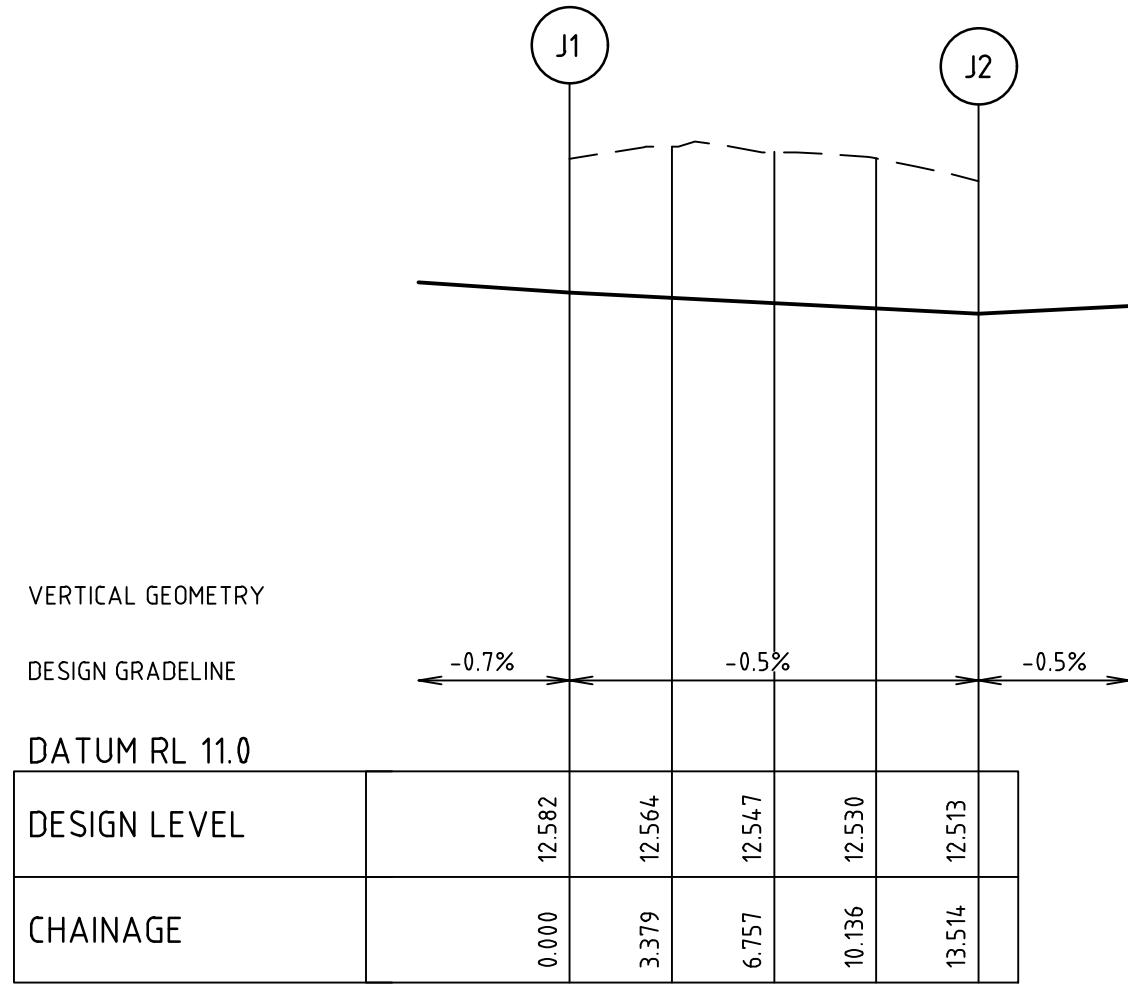
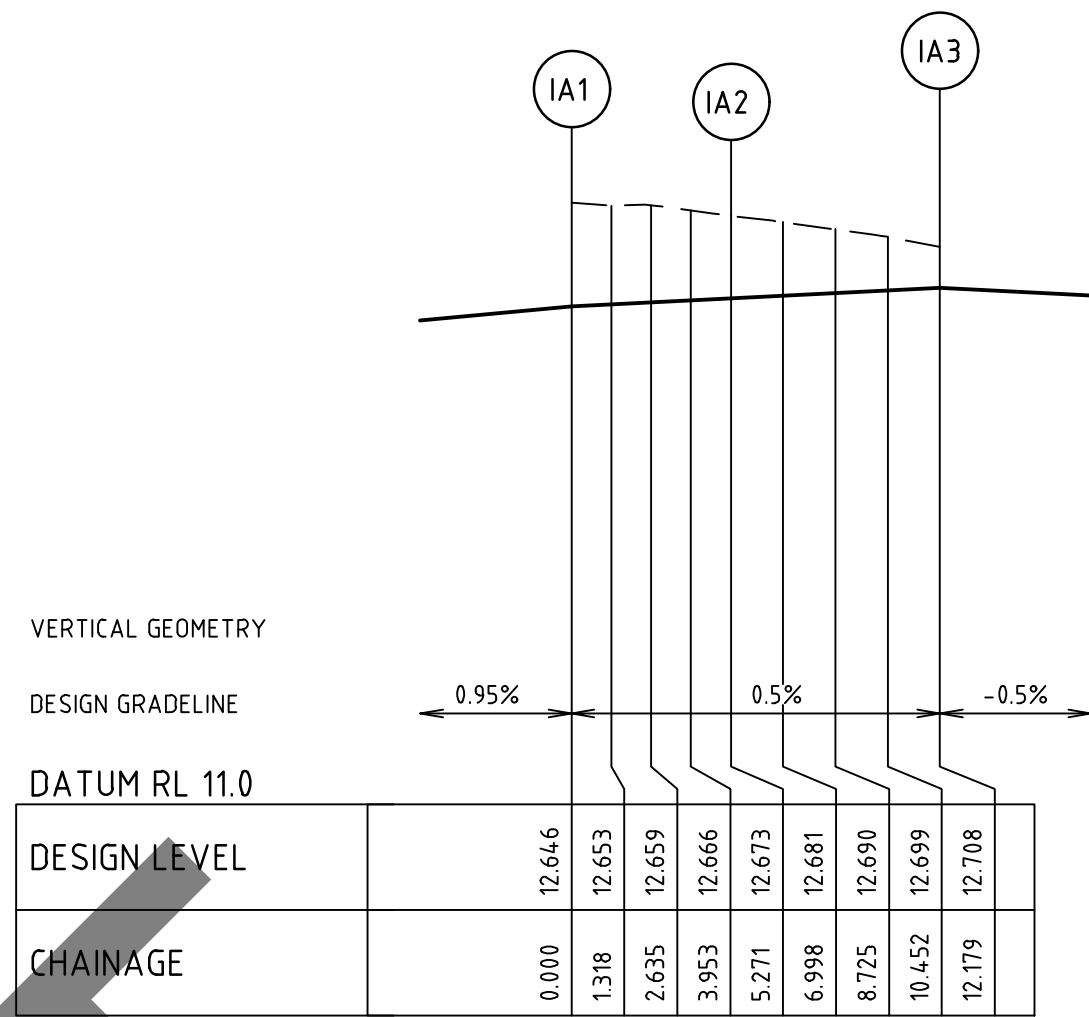
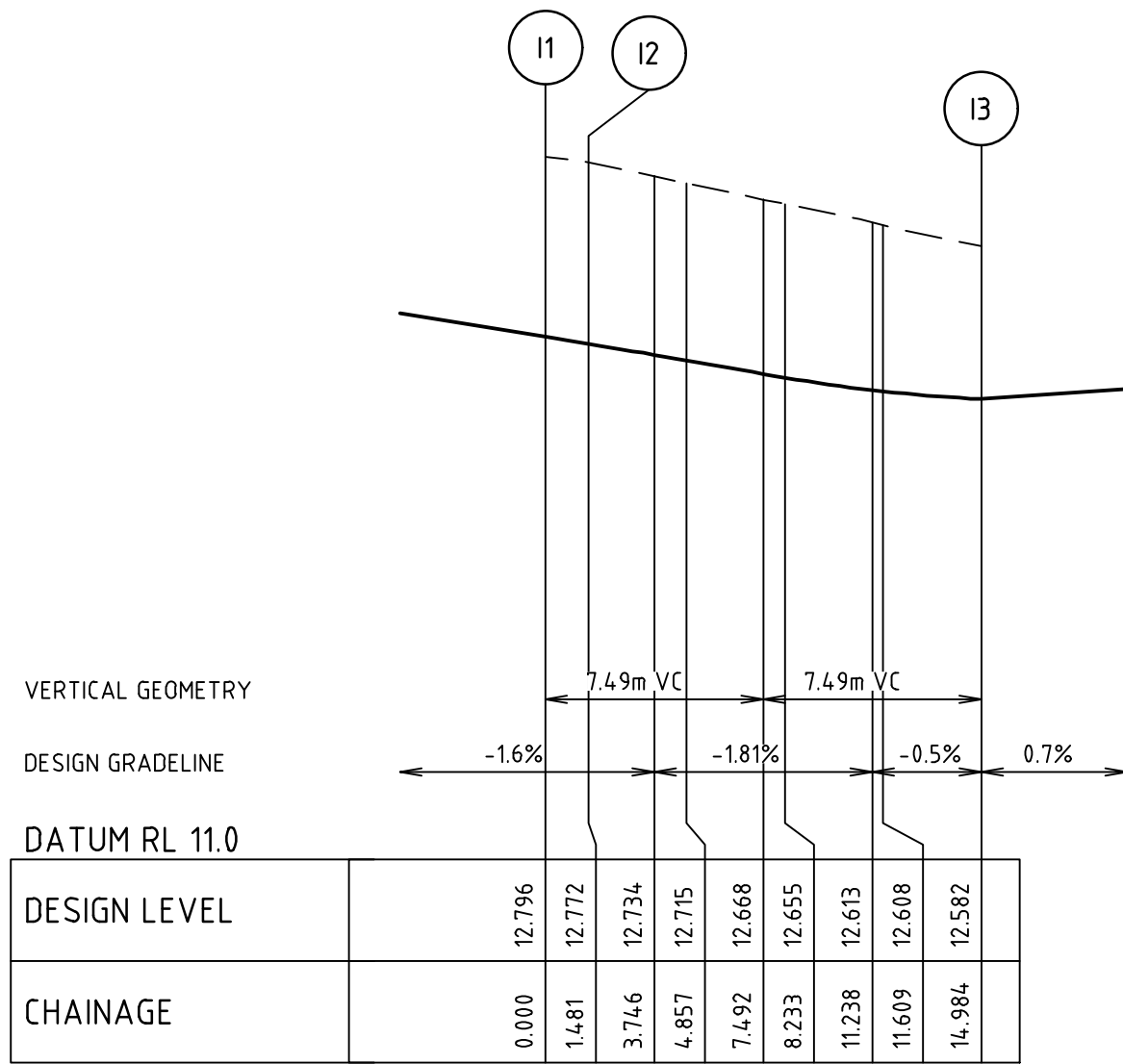
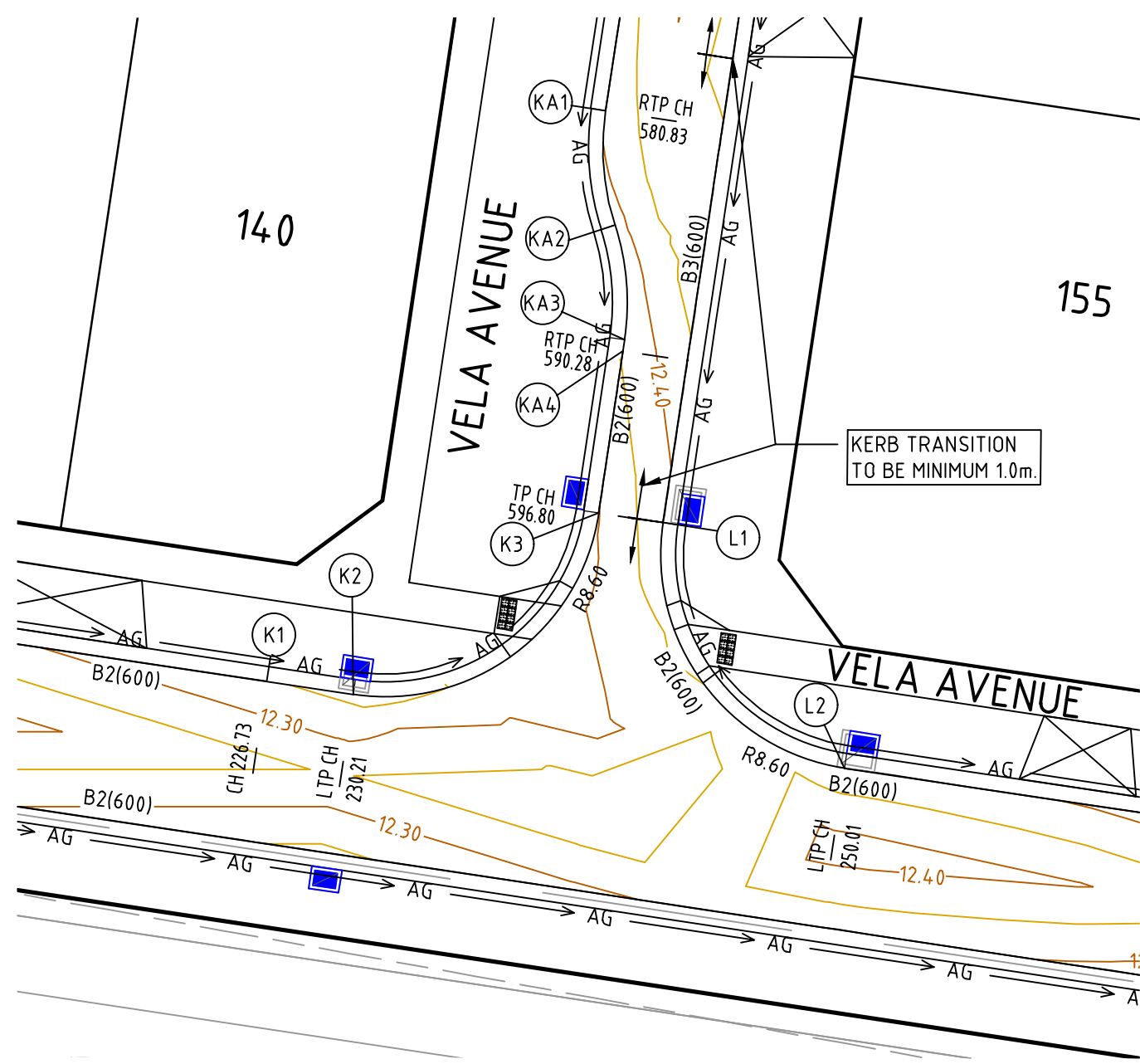
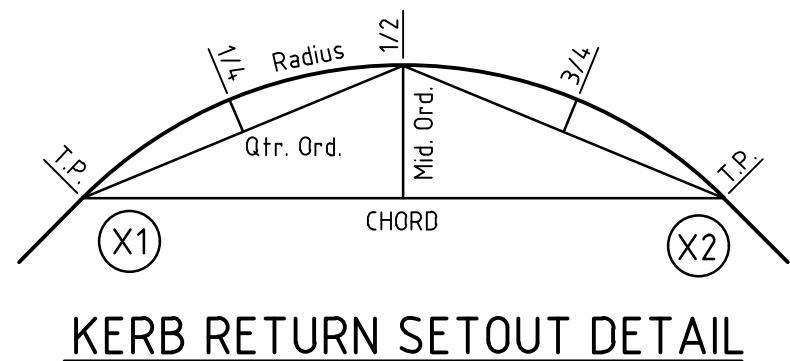
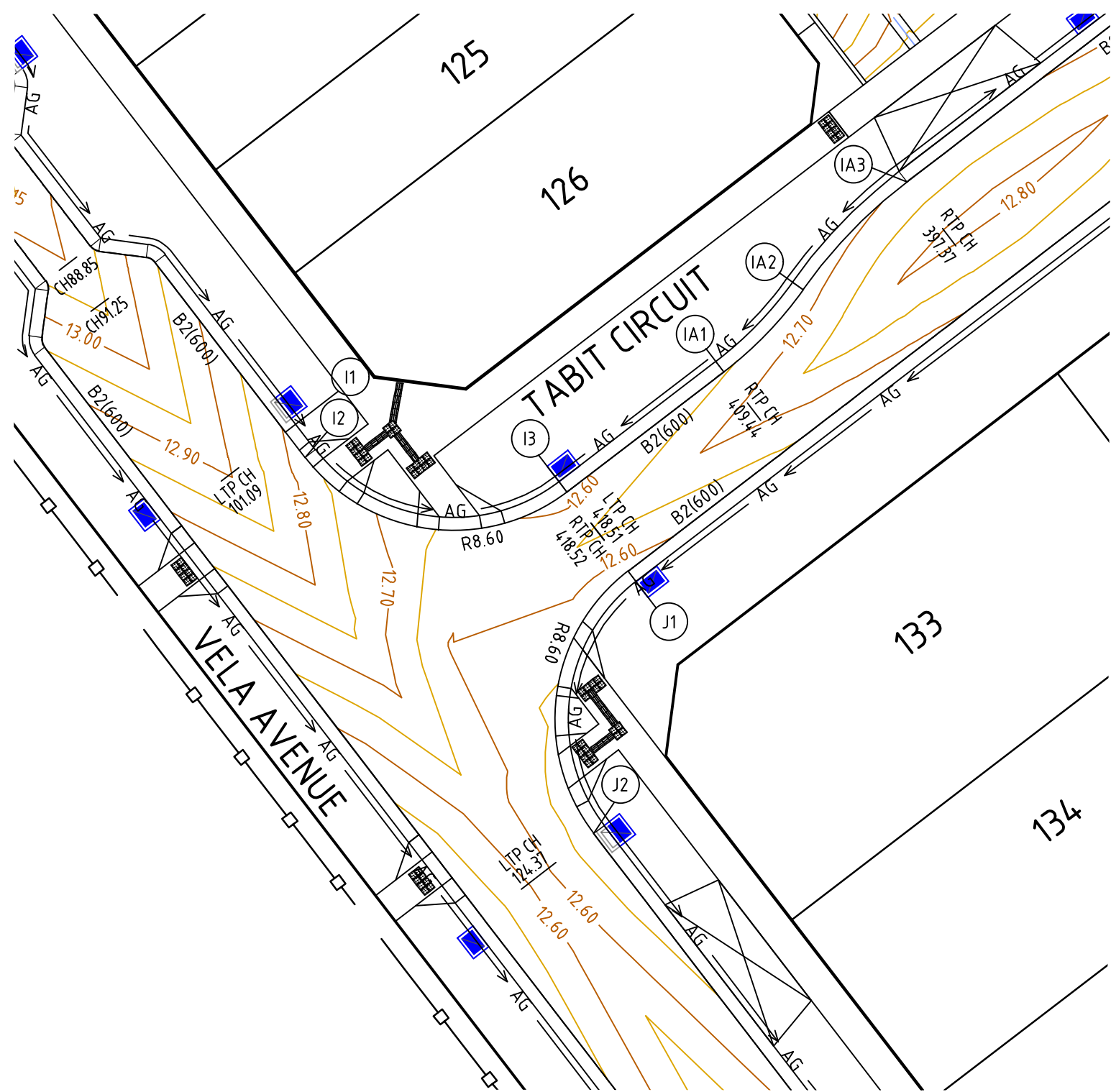


Designed D.RAWAT	Checked B.WARNAKULASURIYA
Authorised T.ABBOTT	Date JULY 2025

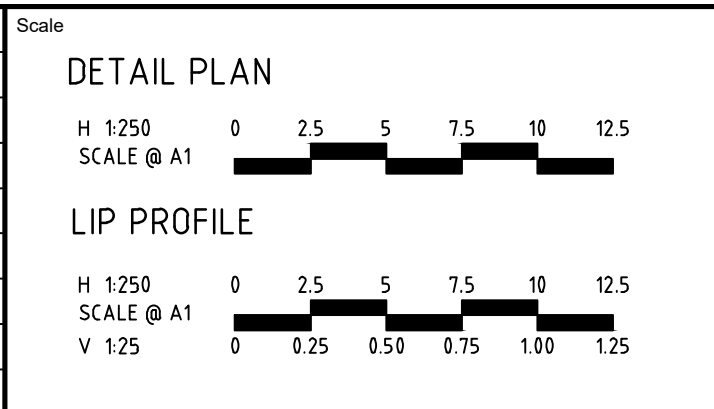
**ALMA ESTATE
STAGE 1
ROAD & DRAINAGE
INTERSECTION DETAILS - SHEET 3**
CASEY CITY COUNCIL
SIG GROUP

PRELIMINARY Drg No **327264-001 CR502** Rev **B**

file name: 322764-001CR500.dwg, layout name: CR503, plotted by: Durgat Rawat,
file location: G:\322764\001\Cr\ACAD\plot\data_30/07/2025\543.PN, Sheet 19 of 27 Sheets



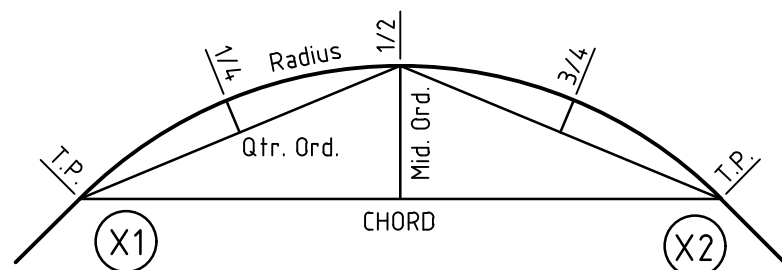
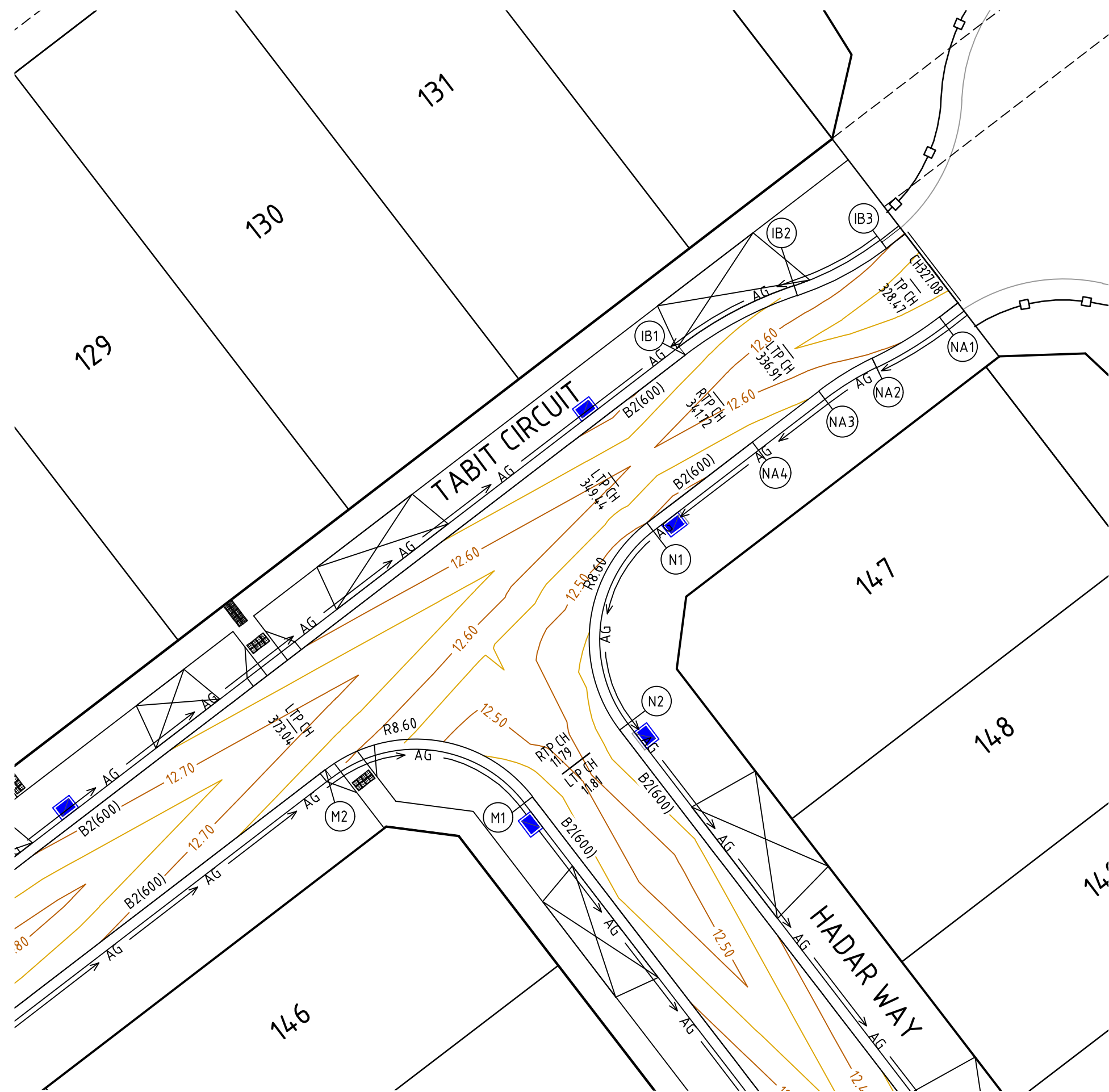
Rev	Amendments	Approved	Date
B	ISSUED TO COUNCIL	T.A	30/07/25
A	ISSUED FOR TENDER	T.A	21/03/25



**ALMA ESTATE
STAGE 1
ROAD & DRAINAGE
INTERSECTION DETAILS - SHEET 4**
CASEY CITY COUNCIL
SIG GROUP

PRELIMINARY Drg No **322764-001 CR503** Rev **B**

file name: 322764-001CR500.dwg, layout name: CR500, plotted by: Ramesh, Raveet,
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KERB RETURN SETOUT DETAIL



VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 11.0

DESIGN LEVEL	12.409	12.444	12.513	12.583	12.618
CHAINAGE	0.000	3.376	6.752	10.128	13.504

ALIGNMENT M

ALIGNMENT M

POINT NO	EASTING	NORTHING	RL
M1	358043.272	5779156.360	12.409
1/4	358040.749	5779158.571	12.444
1/2	358037.573	5779159.648	12.513
3/4	358034.226	5779159.428	12.583
M2	358031.217	5779157.944	12.618

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
M1-M2	8.600	13.504	12.159	2.517	-0.654

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 11.0

DESIGN LEVEL	12.517	12.528	12.539	12.551	12.562	12.571	12.580	12.589	12.598
CHAINAGE	0.000	1.657	3.775	5.572	7.430	8.904	10.378	11.852	13.327

ALIGNMENT IB

ALIGNMENT IB

POINT NO	EASTING	NORTHING	RL
IB1	358052.172	5779182.089	12.517
1/4	358053.691	5779183.157	12.528
1/2	358055.294	5779184.095	12.539
3/4	358056.969	5779184.896	12.551
IB2	358058.705	5779185.555	12.562
1/4	358060.082	5779186.078	12.571
1/2	358061.412	5779186.714	12.580
3/4	358062.684	5779187.459	12.589
IB3	358063.890	5779188.307	12.598

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
IB1-IB2	22.300	7.430	7.395	0.309	0.077
IB2-IB3	17.700	5.897	5.870	0.245	-0.061

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 11.0

DESIGN LEVEL	12.500	12.477	12.454	12.432	12.409
CHAINAGE	0.000	3.379	6.757	10.136	13.514

ALIGNMENT N

ALIGNMENT N

POINT NO	EASTING	NORTHING	RL
N1	358049.941	5779172.310	12.500
1/4	358047.728	5779169.786	12.477
1/2	358046.649	5779166.607	12.454
3/4	358046.870	5779163.258	12.432
N2	358048.356	5779160.248	12.409

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
N1-N2	8.600	13.514	12.166	2.521	-0.655

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 11.0

DESIGN LEVEL	12.613	12.602	12.591	12.590	12.584	12.573	12.573	12.563	12.556	12.517
CHAINAGE	0.000	2.302	4.500	4.604	5.440	6.380	6.432	7.319	8.259	13.140

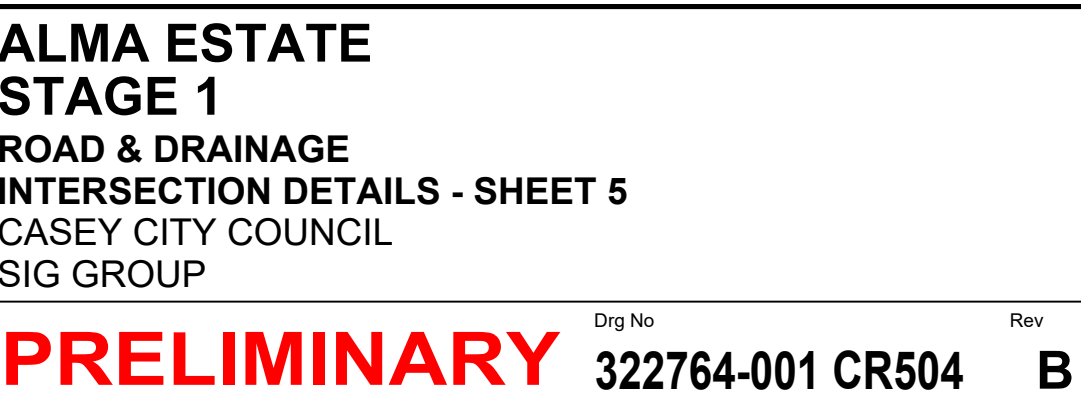
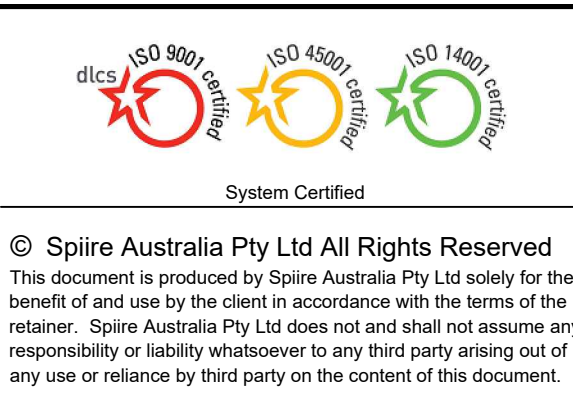
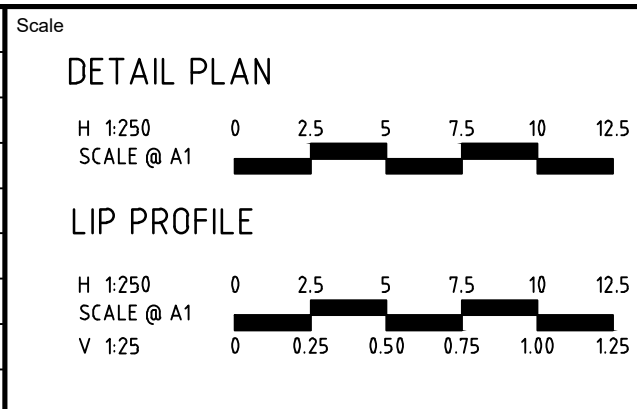
ALIGNMENT NA

ALIGNMENT NA

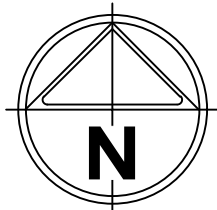
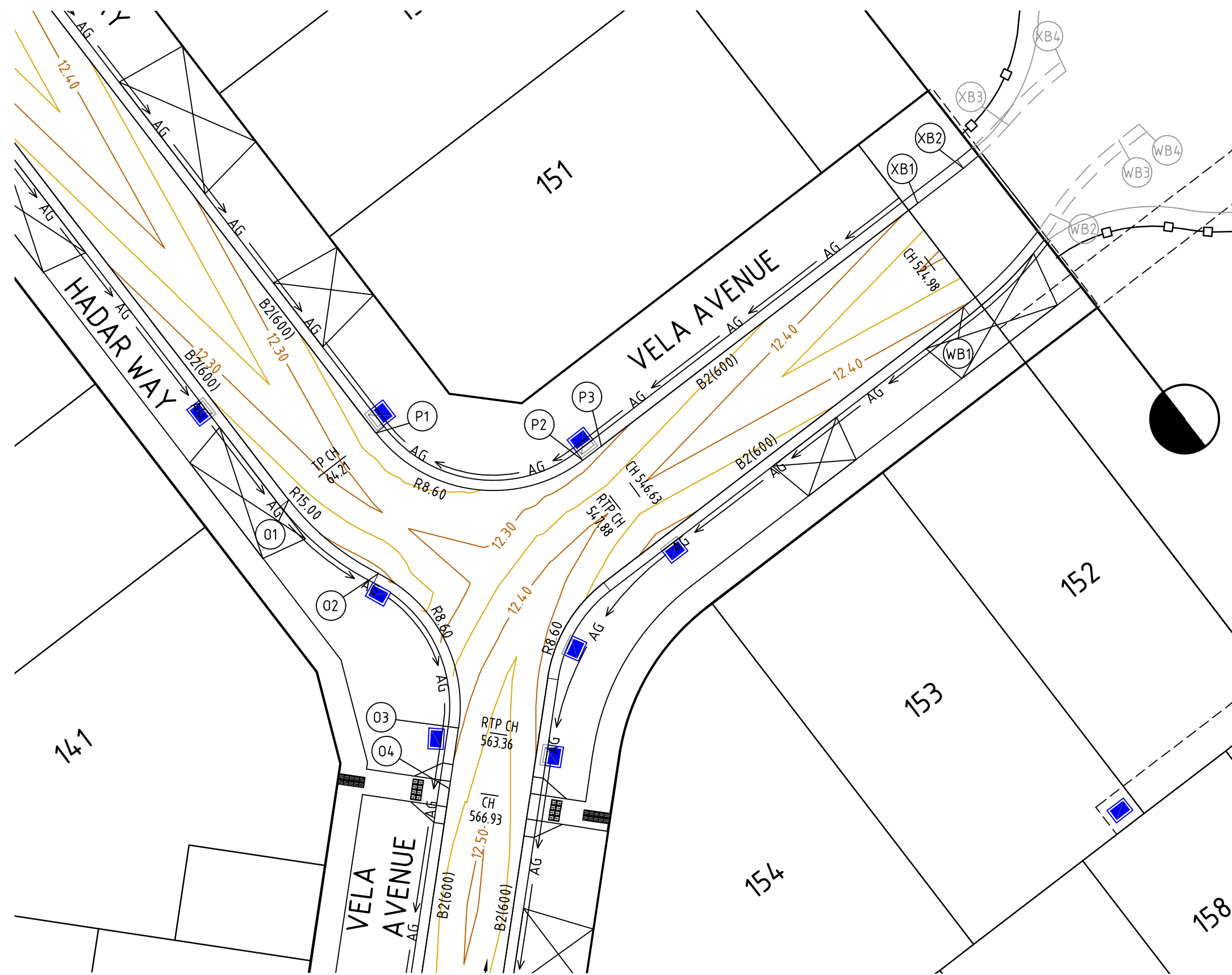
POINT NO	EASTING	NORTHING	RL
NA1	358066.964	5779184.300	12.613
1/2	358065.068	5779182.995	12.602
NA2	358063.048	5779181.893	12.590
1/2	358061.445	5779181.018	12.573
NA3	358059.940	5779179.982	12.556
NA4	358056.068	5779177.011	12.517

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
NA1-NA2	22.300	4.604	4.596	0.119	0.030
NA2-NA3	17.700	3.655	3.648	0.094	-0.024

Rev	Amendments	Approved	Date
B	ISSUED TO COUNCIL	T.A	30/07/25
A	ISSUED FOR TENDER	T.A	21/03/25



file name: 322764-001CR500.dwg, layout name: CR505, plotted by: Durgat Rawat,
file location: G:\322764\001\Cr\ALD0.plt, data: 30/07/2025 5:43 PM, Sheet: 1 of 1, Sheets



MTA 2020
ZONE 55

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 11.0

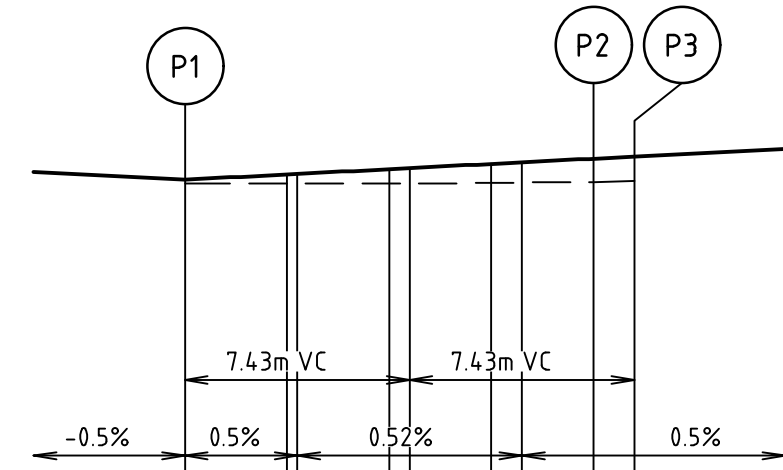
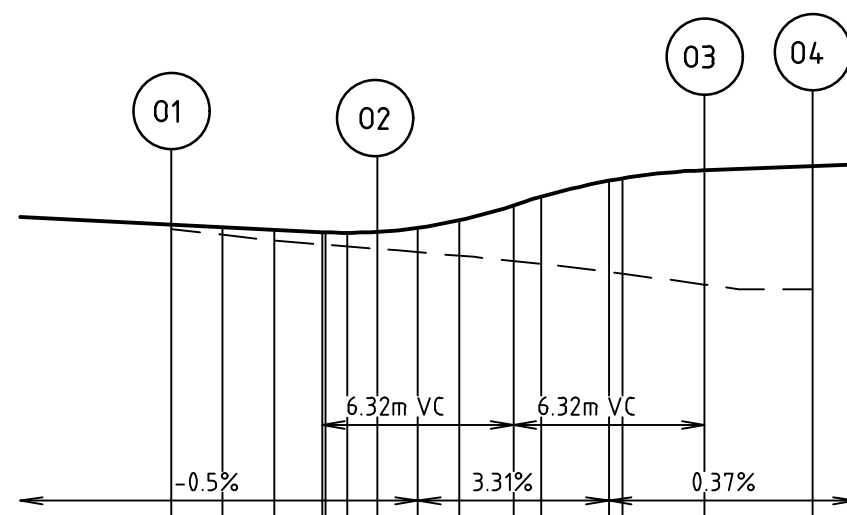
DESIGN LEVEL	12.213	12.205	12.196	12.188	12.186	12.189	12.203	12.227	12.277	12.305	12.358	12.366	12.393	12.407
CHAINAGE	0.000	1.704	3.409	5.000	5.113	5.830	6.817	8.160	9.523	11.320	12.305	14.480	14.934	17.640

ALIGNMENT O

ALIGNMENT O

POINT NO	EASTING	NORTHING	RL
O1	358075.203	5779114.795	12.213
1/4	358076.316	5779113.505	12.205
1/2	358077.567	5779112.350	12.196
3/4	358078.942	5779111.344	12.188
O2	358080.422	5779110.501	12.186
1/4	358082.617	5779108.938	12.227
1/2	358084.221	5779106.773	12.305
3/4	358085.076	5779104.216	12.366
O3	358085.099	5779101.523	12.393
O4	358084.570	5779098.000	12.407

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
O1-O2	15.000	6.817	6.759	0.386	-0.097
O2-O3	8.600	10.823	10.123	1.647	0.422



VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 11.0

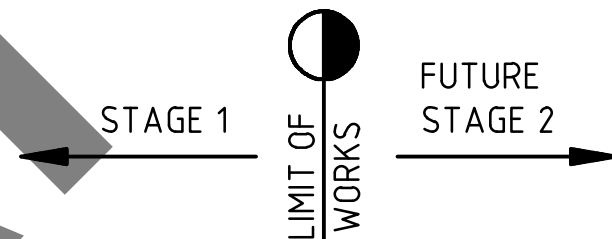
DESIGN LEVEL	12.213	12.230	12.232	12.248	12.251	12.265	12.270	12.282	12.289
CHAINAGE	0.000	3.376	3.715	6.752	7.430	10.128	11.145	13.504	14.860

ALIGNMENT P

ALIGNMENT P

POINT NO	EASTING	NORTHING	RL
P1	358080.278	5779118.694	12.213
1/4	358082.801	5779116.483	12.230
1/2	358085.978	5779115.406	12.248
3/4	358089.325	5779115.626	12.265
P2	358092.333	5779117.110	12.282
P3	358093.410	5779117.936	12.289

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
P1-P2	8.600	13.504	12.159	2.517	-0.654



VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 11.0

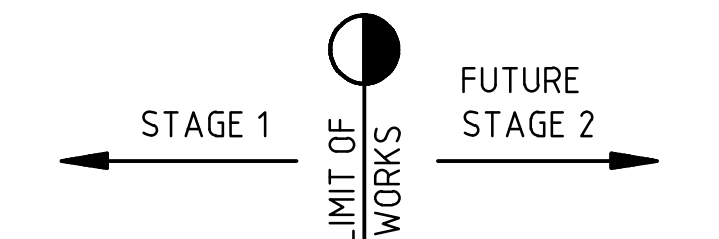
DESIGN LEVEL	12.406	12.438	12.449	12.456	12.473	12.479	12.485	12.490	12.496
CHAINAGE	0.000	3.347	4.506	5.169	6.990	8.337	9.285	10.432	11.579

ALIGNMENT XB

ALIGNMENT XB

POINT NO	EASTING	NORTHING	RL
XB1	358111.829	5779132.068	12.406
XB2	358114.485	5779134.106	12.438
1/2	358115.871	5779135.287	12.456
XB3	358117.127	5779136.604	12.473
1/2	358118.711	5779138.263	12.485
XB4	358120.456	5779139.751	12.496

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
XB2- XB3	17.700	3.643	3.636	0.094	-0.023
XB3- XB4	22.300	4.589	4.581	0.118	0.030



VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 11.0

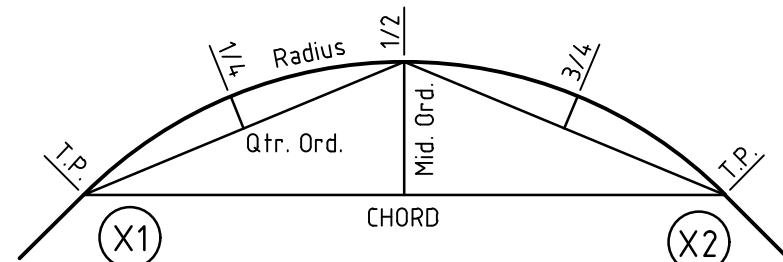
DESIGN LEVEL	12.398	12.409	12.420	12.432	12.435	12.443	12.452	12.461	12.470	12.479	12.486
CHAINAGE	0.000	1.860	3.721	5.581	6.213	7.441	8.916	10.392	11.867	13.342	14.841

ALIGNMENT WB

ALIGNMENT WB

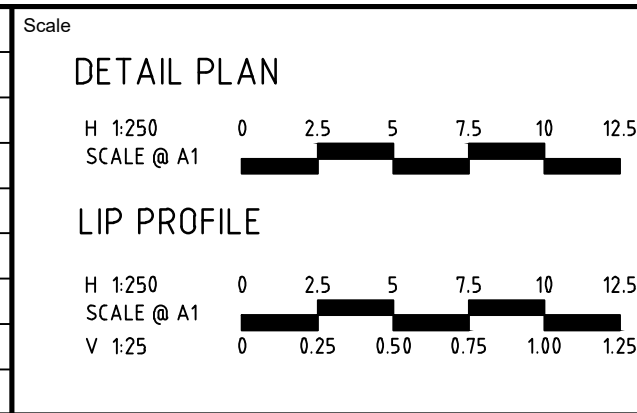
POINT NO	EASTING	NORTHING	RL
WB1	358114.481	5779126.026	12.398
1/4	358115.908	5779127.218	12.409
1/2	358117.231	5779128.525	12.420
3/4	358118.441	5779129.938	12.432
WB2	358119.529	5779131.446	12.443
1/4	358120.391	5779132.642	12.452
1/2	358121.350	5779133.763	12.461
3/4	358122.399	5779134.799	12.470
WB3	358123.530	5779135.745	12.479
WB4	358124.720	5779136.657	12.486

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
WB1-WB2	22.300	7.441	7.407	0.310	-0.078
WB2-WB3	17.700	5.900	5.873	0.245	0.061



KERB RETURN SETOUT DETAIL

Rev	Amendments	Approved	Date
B	ISSUED TO COUNCIL	T.A	30/07/25
A	ISSUED FOR TENDER	T.A	21/03/25



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Designed
D.RAWAT
Authorised
T.ABBOTT

Checked
B.WARNAKULASURIYA
Date
JULY 2025

**ALMA ESTATE
STAGE 1
ROAD & DRAINAGE
INTERSECTION DETAILS - SHEET 6**
CASEY CITY COUNCIL
SIG GROUP

PRELIMINARY Drg No **322764-001CR505**

Rev **B**

file name: 327264-001CR600.dwg, layout name: CR600, plotted by: Dinesh Rawat, file location: G:\327264\001\CR600.plt, data: 30/07/2025 5:43 PM, Sheet: 21 of 27, Sheets

CRUSHED ROCK BACKFILL

ENDWALL

Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m³/s)
Pipe Capacity (m³/s)

DATUM

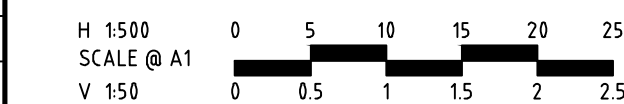
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
DEPTH TO INVERT	0.900	0.900	2.605	2.555	2.639	2.589	2.610	2.535	2.376	2.423	2.373	2.523	2.473	2.336	2.286
DESIGN INVERT LEVEL	9.592	9.592	9.677	9.727	9.992	10.042	10.092	10.097	10.097	10.097	10.097	10.097	10.097	10.097	10.097
HYDRAULIC GRADE LEVEL	10.340	10.340	10.577	10.613	10.660	10.696	10.731	10.731	10.731	10.731	10.731	10.731	10.731	10.731	10.731
FINISHED SURFACE LEVEL	10.492	10.492	10.577	10.613	10.660	10.696	10.731	10.731	10.731	10.731	10.731	10.731	10.731	10.731	10.731
EXISTING SURFACE LEVEL	12.400	12.400	12.336	12.382	12.399	12.399	12.441	12.441	12.441	12.441	12.441	12.441	12.441	12.441	12.441
CHAINAGE	0.000	L=34.663m	34.663	L=22.062m	56.724	L=13.906m	70.630	L=20.402m	91.032	L=27.274m	118.306	L=114.83m	129.789	L=14.133m	143.922

Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m³/s)
Pipe Capacity (m³/s)

DATUM

	15	15A	16	17	18	19	20	18	21	01	22	20	23	24	03	25	26	27	28	29	30
DEPTH TO INVERT	0.600	0.600	2.746	2.696	2.556	2.506	2.455	2.415	2.115	2.605	1.879	1.929	1.879	1.225	2.610	2.423	2.352	2.302	2.260	2.210	1.831
DESIGN INVERT LEVEL	9.592	9.592	9.654	9.704	9.756	9.806	9.856	9.906	10.006	10.057	10.057	10.057	10.057	10.057	10.057	10.057	10.057	10.057	10.057	10.057	10.057
HYDRAULIC GRADE LEVEL	10.340	10.340	10.363	10.442	10.449	10.528	10.602	10.655	10.734	10.613	10.613	10.613	10.613	10.613	10.613	10.613	10.613	10.613	10.613	10.613	10.613
FINISHED SURFACE LEVEL	10.492	10.492	10.400	10.442	10.473	10.542	10.622	10.675	10.734	10.613	10.613	10.613	10.613	10.613	10.613	10.613	10.613	10.613	10.613	10.613	10.613
EXISTING SURFACE LEVEL	12.404	12.404	12.400	12.387	12.373	12.393	12.393	12.393	12.433	12.382	12.382	12.382	12.382	12.382	12.382	12.382	12.382	12.382	12.382	12.382	12.382
CHAINAGE	0.000	L=13.895m	13.895	L=4.099m	17.995	L=8.500m	26.495	L=20.454m	46.949	L=21.146m	68.095	L=12.700m	80.795	L=25.746m	106.541	L=11.559m	118.100	L=6.377m	124.477	L=8.512m	132.989

Scale



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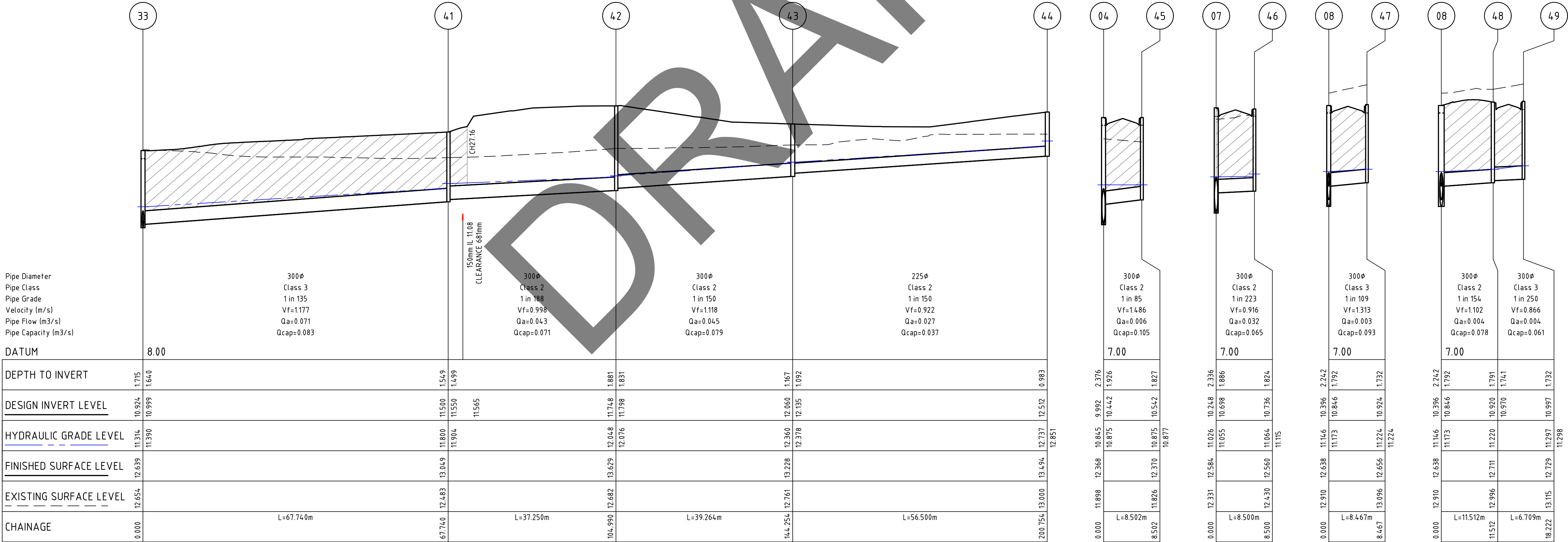
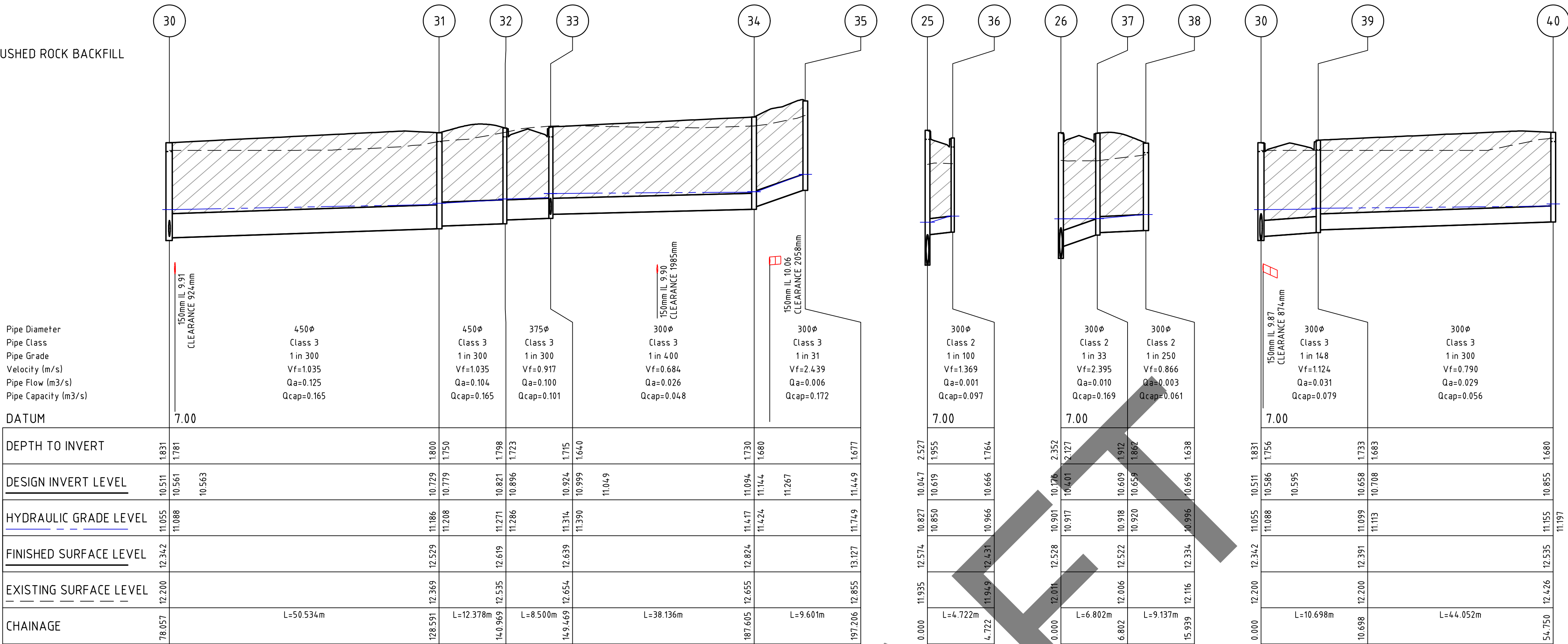
Designed
D.RAWAT
Authorised
T.ABBOTT

Checked
B.WARNAKULASURIYA
Date
JULY 25

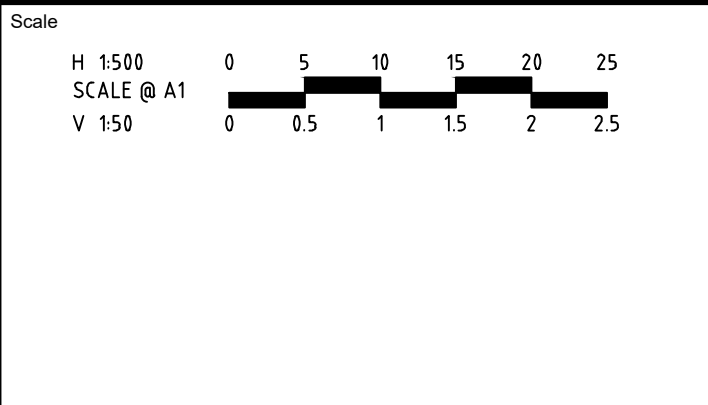
**ALMA ESTATE
STAGE 1
ROAD & DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 1**
CASEY CITY COUNCIL
SIG GROUP

PRELIMINARY Drg No **322764-001 CR600** Rev **B**

file name: 322764-001CR600.dwg, layout name: CR601, plotted by: Daniel Revett,
file location: G:\322764\001\CR601.dwg, data: 30/07/2025 5:44 PM, Sheet 22 of 27 Sheets



Rev	Amendments	Approved	Date
B	ISSUED TO COUNCIL	T.A	30/07/25
A	ISSUED FOR TENDER	T.A	21/03/25



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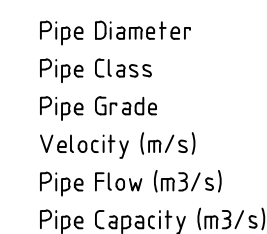
Designed
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Authorised
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Checked
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Date
JULY 25

ALMA ESTATE
STAGE 1
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 2
CASEY CITY COUNCIL
SIG GROUP

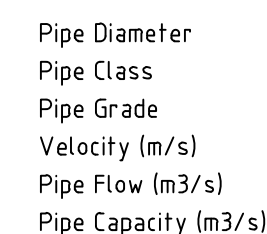
PRELIMINARY Drg No 322764-001CR601

Rev
B

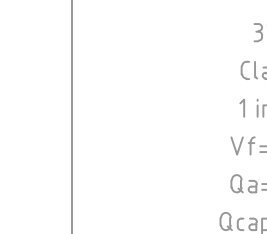


- Pipe Diameter
- Pipe Class
- Pipe Grade
- Velocity (m/s)
- Pipe Flow (m³/s)
- Pipe Capacity (m³/s)

Pipe Diameter	300ø
Pipe Class	Class 4
Pipe Grade	1 in 250
Velocity (m/s)	Vf=0.866
Pipe Flow (m3/s)	Qa=0.034
Pipe Capacity (m3/s)	Qcap=0.061



Pipe Diameter	300ø
Pipe Class	Class 4
Pipe Grade	1 in 250
Velocity (m/s)	Vf=0.866
Pipe Flow (m3/s)	Qa=0.034
Pipe Capacity (m3/s)	Qcap=0.061



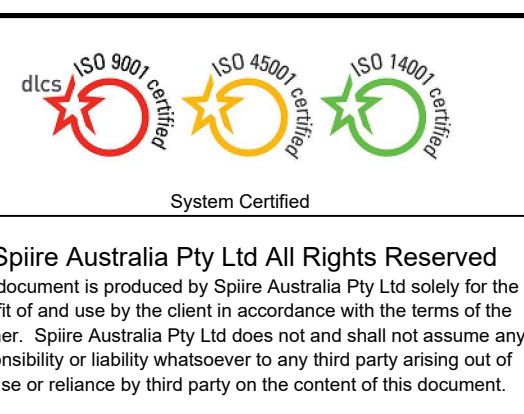
375 ϕ	300 ϕ
Class 2	Class 2
1 in 296	1 in 250
Vf=0.924	Vf=0.866
Qa=0.067	Qa=0.031
Qcap=0.102	Qcap=0.061

300φ	300φ
Class 2	Class 2
1 in 290	1 in 290
Vf=0.804	Vf=0.804
Qa=0.024	Qa=0.009
Qcap=0.057	Qcap=0.057

Scale

H 1500
SCALE @ A1
V 150

Bar	Start	End
1	0	0.5
2	0.5	1.5
3	1.5	2.0
4	2.0	2.5



	
Designed D. RAWAT	Checked B. WARNAKULASURIYA
Authorised T. ABBOTT	Date JULY 25

**ALMA ESTATE STAGE 1
STAGE 1
ROAD & DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 3
CASEY CITY COUNCIL
SIG GROUP**

PRELIMINARY Orig No
32270

Rev

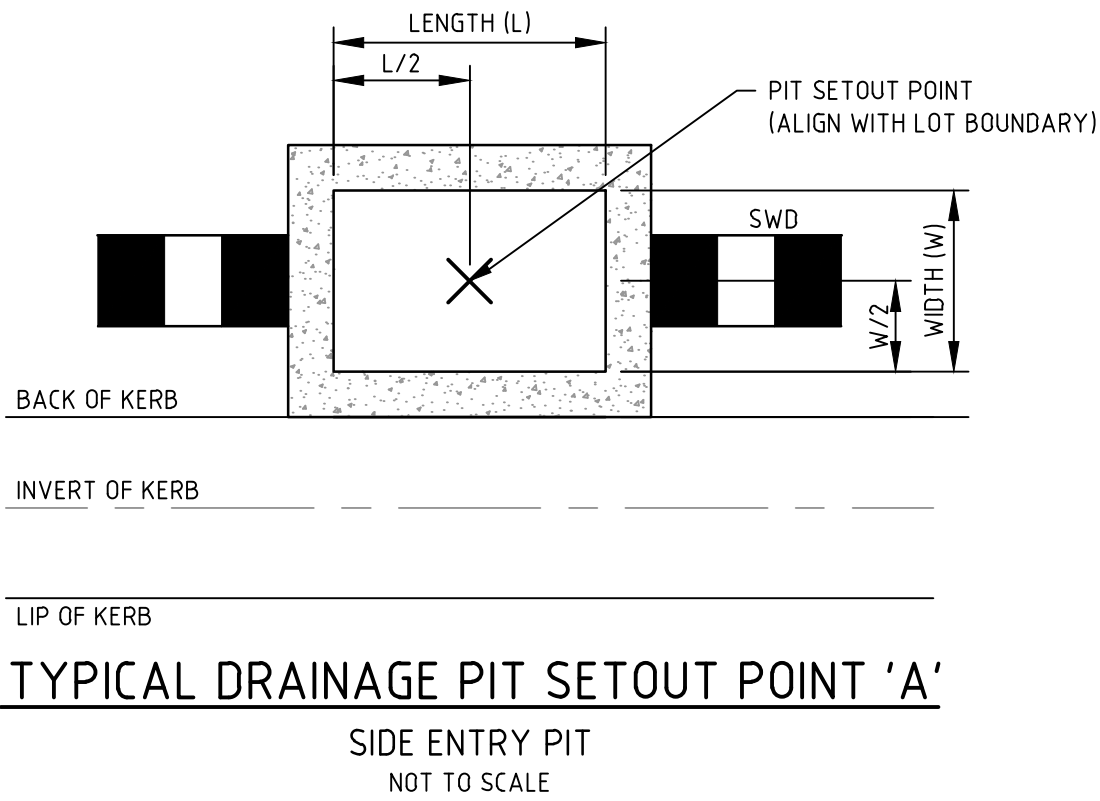
DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
00	ENDWALL			900	9.592					TEMPORARY OUTLET PIPE TO RETARDING BASIN
01	DOUBLE GRATED SIDE ENTRY PIT	1500	900	900	9.727	900	9.677	12.282	2.605	REFER TO EDCM STD FIG 602 & 607
				300	10.402					
02	JUNCTION PIT	900	1200	900	9.810	900	9.760	12.399	2.639	REFER TO EDCM STD FIG 607
03	JUNCTION PIT	1200	1200	750	9.906	900	9.831	12.441	2.610	REFER TO EDCM STD FIG 607
				525	10.018					
04	GRATED SIDE ENTRY PIT	900	1050	750	10.042	750	9.992	12.368	2.376	REFER TO EDCM STD FIG 601 & 607
				300	10.442					
05	JUNCTION PIT	900	1050	750	10.147	750	10.097	12.519	2.423	REFER TO EDCM STD FIG 607
06	JUNCTION PIT	900	1050	750	10.220	750	10.170	12.692	2.523	REFER TO EDCM STD FIG 607
07	GRATED SIDE ENTRY PIT	900	1050	750	10.298	750	10.248	12.584	2.336	REFER TO EDCM STD FIG 601 & 607
				300	10.698					
08	GRATED SIDE ENTRY PIT	900	1050	600	10.546	750	10.396	12.638	2.242	REFER TO EDCM STD FIG 601 & 607
				300	10.846					
				300	10.846					
09	GRATED SIDE ENTRY PIT	900	900	600	10.732	600	10.682	12.956	2.274	REFER TO EDCM STD FIG 601 & 607
				300	10.982					
10	GRATED SIDE ENTRY PIT	900	900	600	10.894	600	10.844	13.246	2.402	REFER TO EDCM STD FIG 601 & 607
				300	11.144					
11	GRATED SIDE ENTRY PIT	900	1050	600	11.150	600	11.100	13.422	2.322	REFER TO EDCM STD FIG 601 & 607
				300	11.400					
12	JUNCTION PIT	900	900	600	11.296	600	11.246	13.508	2.263	REFER TO EDCM STD FIG 607
13	JUNCTION PIT	900	1200	600	11.412	600	11.362	13.608	2.246	REFER TO EDCM STD FIG 607
				300	11.662					
14	WINGWALL	1050	900			600	11.464	13.728	2.264	CONSTRUCT TEMPORARY WINGWALL
15	ENDWALL	0	0	600	9.592			10.192	0.600	TEMPORARY OUTLET PIPE TO RETARDING BASIN
15A	JUNCTION PIT	900	1050	600	9.704	600	9.654	12.400	2.746	REFER TO EDCM STD FIG 607
16	DOUBLE GRATED SIDE ENTRY PIT	600	1200	600	9.767	600	9.717	12.273	2.556	REFER TO EDCM STD FIG 602 & 607
17	DOUBLE GRATED SIDE ENTRY PIT	900	900	600	9.839	600	9.789	12.293	2.505	REFER TO EDCM STD FIG 602 & 607
18	GRATED SIDE ENTRY PIT	900	900	600	9.940	600	9.890	12.305	2.415	REFER TO EDCM STD FIG 601 & 607
				300	10.190					
19	GRATED SIDE ENTRY PIT	900	900	600	10.032	600	9.982	12.345	2.363	REFER TO EDCM STD FIG 601 & 607
				300	10.282					
20	JUNCTION PIT	900	900			600	10.057	12.402	2.345	REFER TO EDCM STD FIG 607
				225	10.432					
				600	10.107					
21	GRATED SIDE ENTRY PIT	600	900			300	10.466	12.290	1.824	REFER TO EDCM STD FIG 601 & 607
22	DOUBLE GRATED SIDE ENTRY PIT	600	900			300	10.459	12.302	1.843	REFER TO EDCM STD FIG 602 & 607
23	JUNCTION PIT	600	900	225	11.171	225	11.121	13.049	1.929	
24	JUNCTION PIT	600	900	225	11.547	225	11.547	12.772	1.225	
25	GRATED SIDE ENTRY PIT	900	1200	525	10.096	525	10.047	12.574	2.527	REFER TO EDCM STD FIG 601 & 607
				300	10.619					
26	JUNCTION PIT	900	900	525	10.226	525	10.176	12.528	2.352	REFER TO EDCM STD FIG 607
				300	10.401					
27	JUNCTION PIT	900	900	525	10.292	525	10.242	12.502	2.260	REFER TO EDCM STD FIG 607
28	GRATED SIDE ENTRY PIT	750	900	525	10.369	525	10.319	12.431	2.112	REFER TO EDCM STD FIG 601 & 607
29	GRATED SIDE ENTRY PIT	900	1050	450	10.472	525	10.397	12.410	2.013	REFER TO EDCM STD FIG 601 & 607
30	GRATED SIDE ENTRY PIT	900	1050	450	10.561	450	10.511	12.342	1.831	REFER TO EDCM STD FIG 601 & 607
				300	10.586					
31	GRATED SIDE ENTRY PIT	750	900	450	10.779	450	10.729	12.529	1.800	REFER TO EDCM STD FIG 601 & 607
32	GRATED SIDE ENTRY PIT	600	1050	375	10.896	450	10.821	12.619	1.798	REFER TO EDCM STD FIG 601 & 607
33	GRATED SIDE ENTRY PIT	600	900	300	10.999	375	10.924	12.639	1.715	REFER TO EDCM STD FIG 601 & 605
				300	10.999					

34	JUNCTION PIT	600	900	300	11.144	300	11.094	12.824	1.730	REFER TO EDCM STD FIG 605
35	GRATED JUNCTION PIT	600	900			300	11.449	13.127	1.677	REFER TO EDCM STD FIG 605, CONSTRUCT WITH HEAVY DUTY BOLT DOWN V GRATE (CIVIL CAST VG66D OR EQUIVALENT)
36	GRATED SIDE ENTRY PIT	600	900			300	10.666	12.431	1.764	REFER TO EDCM STD FIG 601 & 605
37	JUNCTION PIT	600	900	300	10.659	300	10.609	12.522	1.912	REFER TO EDCM STD FIG 605
38	GRATED SIDE ENTRY PIT	600	900			300	10.696	12.334	1.638	REFER TO EDCM STD FIG 601 & 605
39	GRATED SIDE ENTRY PIT	600	900	300	10.708	300	10.658	12.391	1.733	REFER TO EDCM STD FIG 601 & 605
40	GRATED SIDE ENTRY PIT	600	900			300	10.855	12.535	1.680	REFER TO EDCM STD FIG 601 & 605
41	JUNCTION PIT	600	900	300	11.550	300	11.500	13.049	1.549	REFER TO EDCM STD FIG 605
42	JUNCTION PIT	600	900	300	11.980	300	11.798	13.629	1.881	REFER TO EDCM STD FIG 605
43	JUNCTION PIT	600	900	225	12.186	300	12.060	13.228	1.167	REFER TO EDCM STD FIG 605
44	JUNCTION PIT	600	900			225	12.512	13.494	0.983	REFER TO EDCM STD FIG 605
45	GRATED SIDE ENTRY PIT	600	900			300	10.542	12.370	1.827	REFER TO EDCM STD FIG 601 & 605
46	GRATED SIDE ENTRY PIT	600	900			300	10.736	12.560	1.824	REFER TO EDCM STD FIG 601 & 605
47	GRATED SIDE ENTRY PIT	600	900			300	10.924	12.656	1.732	REFER TO EDCM STD FIG 601 & 605
48	GRATED SIDE ENTRY PIT	600	900	300	10.970	300	10.920	12.711	1.791	REFER TO EDCM STD FIG 601 & 605
49	GRATED SIDE ENTRY PIT	600	900			300	10.997	12.729	1.732	REFER TO EDCM STD FIG 601 & 605
50	GRATED SIDE ENTRY PIT	600	900			300	11.172	12.945	1.773	REFER TO EDCM STD FIG 601 & 605
51	GRATED SIDE ENTRY PIT	600	900			300	11.413	13.237	1.825	REFER TO EDCM STD FIG 601 & 605
52	GRATED SIDE ENTRY PIT	600	900	300	11.505	300	11.455	13.375	1.920	REFER TO EDCM STD FIG 601 & 605
53	GRATED SIDE ENTRY PIT	600	900	300	11.582	300	11.532	13.370	1.838	REFER TO EDCM STD FIG 601 & 605
54	JUNCTION PIT	600	900	300	11.767	300	11.717	13.569	1.852	REFER TO EDCM STD FIG 605
55	JUNCTION PIT	600	900			300	11.827	13.532	1.705	REFER TO EDCM STD FIG 605
56	JUNCTION PIT	600	900	300	11.899	300	11.849	13.609	1.760	REFER TO EDCM STD FIG 605
57	GRATED SIDE ENTRY PIT	600	900			300	12.077	13.793	1.716	REFER TO EDCM STD FIG 601 & 605
Ex 14.15	GRATED SIDE ENTRY PIT	600	900	300	11.671	300	11.621	13.200	1.579	BREAK INTO EXISTING PIT AND CONNECT NEW PIPE
				300	11.671					
60	JUNCTION PIT	600	900			300	11.836	13.407	1.570	REFER TO EDCM STD FIG 605
61	GRATED SIDE ENTRY PIT	600	900			300	11.706	13.198	1.492	REFER TO EDCM STD FIG 601 & 605
Ex 14.44	ENDPIPE			225	12.408			13.286	0.928	CONNECT TO EXISTING STUB
63	JUNCTION PIT	600	900			225	12.667	13.531	0.863	REFER TO EDCM STD FIG 605
Ex 14.43	ENDPIPE			300	11.405			12.653	1.298	CONNECT TO EXISTING PIPE
65	GRATED SIDE ENTRY PIT	600	900	300	11.550	300	11.500	12.820	1.319	REFER TO EDCM STD FIG 601 & 605
				300	11.550					
66	JUNCTION PIT	600	900	300	11.736	300	11.686	12.991	1.305	REFER TO EDCM STD FIG 605
67	JUNCTION PIT	600	900	300	11.920	300	11.870	13.160	1.290	REFER TO EDCM STD FIG 605
68	GRATED JUNCTION PIT	600	900	300	12.009	300	11.959	13.325	1.365	REFER TO EDCM STD FIG 605, CONSTRUCT WITH HEAVY DUTY BOLT DOWN V GRATE (CIVIL CAST VG66D OR EQUIVALENT)
69	GRATED JUNCTION PIT	600	900			300	12.174	13.463	1.290	REFER TO EDCM STD FIG 605, CONSTRUCT WITH HEAVY DUTY BOLT DOWN V GRATE (CIVIL CAST VG66D OR EQUIVALENT)
70	GRATED SIDE ENTRY PIT	600	900			300	11.578	12.872	1.293	REFER TO EDCM STD FIG 601 & 605
Ex 71	GRATED SIDE ENTRY PIT	900	900	375	10.986			13.118	2.132	
72	GRATED SIDE ENTRY PIT	900	1200	300	11.154	375	11.079	13.048	1.969	REFER TO EDCM STD FIG 601 & 605
				300	11.154					
73	GRATED SIDE ENTRY PIT	600	900	300	11.300	300	11.250	13.133	1.884	REFER TO EDCM STD FIG 601 & 605
74	GRATED SIDE ENTRY PIT	600	900			300	11.345	13.150	1.805	REFER TO EDCM STD FIG 601 & 605
75	GRATED SIDE ENTRY PIT	600	900			300	11.201	13.069	1.868	REFER TO EDCM STD FIG 601 & 605

PIT SETOUT COORDINATES

PIT		COORDINATES	
NAME	TYPE	EASTING	NORTHING
00	B	358162.771	5779063.125
15	B	358162.586	5779067.971
15A	B	358148.694	5779067.650
19	A	358174.028	5779102.971
20	A	358184.104	5779110.703
23	A	358168.430	5779131.129
24	A	358123.604	5779096.735
41	A	358100.401	5779219.786
42	A	358077.725	5779249.338
43	A	358046.573	5779225.437
44	A	358001.747	5779191.044



TYPICAL DRAINAGE SETOUT POINT 'B'

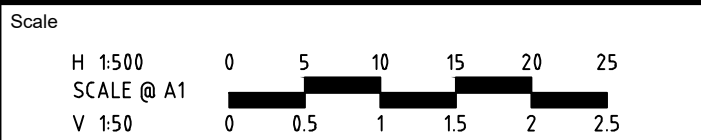
ENDPIPE
NOT TO SCALE

TYPICAL DRAINAGE PIT SETOUT POINT 'C'

JUNCTION PIT / EASEMENT PIT
NOT TO SCALE

file name: 322764-001CR600.dwg, layout name: CR602, plotted by: Dinesh Rawat, file location: G:\322764\001\Cr602.dwg, data: 30/07/2025 5:44 PM, Sheet 1 of 1 Sheets

B	ISSUED TO COUNCIL		T.A	30/07/25	
A	ISSUED FOR TENDER		T.A	21/03/25	
Rev	Amendments		Approved	Date	



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Designed
D.RAWAT

Authorised
T.ABBOTT

Checked
B.WARNAKULASURIYA

Date
JULY 25

**ALMA ESTATE
STAGE 1
ROAD & DRAINAGE
DRAINAGE PIT SCHEDULE & DETAILS**
CASEY CITY COUNCIL
SIG GROUP

PRELIMINARY Drg No **322764-001CR603**

Rev
B

DESIGN PAVEMENT PROFILE

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)		
		TYPE A*	TYPE B*	TYPE C*
ASPHALT (WEARING)	SIZE 10mm TYPE N ASPHALT (C320)			
	SIZE 10mm TYPE L ASPHALT (C320)	30	30	30
	SIZE 14mm TYPE V ASPHALT (C320)			
ASPHALT (INTERMEDIATE)	SIZE 20mm TYPE SI ASPHALT (C320)			
	SIZE 10mm TYPE N ASPHALT (C320)	30	30	30
ASPHALT (BASE)	SIZE 20mm TYPE SF ASPHALT (C320)			
PRIME	PRIMECOAT & 10mm SAMI TREATMENT	10	10	10
BASE COURSE	SIZE 20mm VICROADS CLASS 2 FINE CRUSHED ROCK	130	130	130
	SIZE 20mm 3% CEMENT TREATED CLASS 2 OR CLASS 3 FCR			
SUBBASE	SIZE 20mm VICROADS CLASS 3 FINE CRUSHED ROCK	100	100	100
	SIZE 20mm CLASS 4 FCR			
SUBGRADE STABILISATION	MIN. 350mm LIME & CEMENT STABILISED SUBGRADE (CBR ≥ 20)			
	STABILISED SUBGRADE	350	350	350
SUBGRADE	EXISTING SUBGRADE AS FOUND (CBR ≥ 2)			
	NATURAL SUBGRADE OR CONTROLLED FILL (CBR ≥ 3.0%)	YES	YES	YES
TOTAL PAVEMENT DEPTH		650	650	650

* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES
OVER STABILISED SUBGRADE CBR ≥15.0

ROAD NAME	ROAD TYPE	PAVEMENT TYPE
SHERBET STREET	FRONTAGE ROAD (12m)	A
FOSSIL STREET	ACCESS STREET LEVEL 1 (16m)	B
ATLAS ROAD	ACCESS STREET LEVEL 2 (20m)	C
TABIT ROAD	ACCESS STREET LEVEL 1 (16m)	A
VELA ROAD	ACCESS STREET LEVEL 1 (14.5m)	A&B
RIGEL ROAD	ACCESS STREET LEVEL 1 (16m)	A
HADAR ROAD	ACCESS STREET LEVEL 1 (16m)	A
ALTAIR ROAD	ACCESS STREET LEVEL 1 (16m)	A
PUPPIS LANE	CONCRETE LANEWAY (8m)	RIGID E
CAPELLA LANE	CONCRETE LANEWAY (8m)	RIGID E

RIGID PAVEMENT LEGEND



RIGID PAVEMENT DETAILS

PAVEMENT LAYER	DESCRIPTION	TYPE E*
CONCRETE BASE	PLAIN CONCRETE PAVEMENT (32 MPa AT 28 DAYS; FLEXURAL STRENGTH 4.5MPa)	180
PRIME	WAX EMULSION AND SIZE 7mm INITIAL SEAL (RESIDUAL BINDER RATE ≥ 1.0L/M ²)	YES
SUBBASE	SIZE 20mm VICROADS CLASS 3 FINE CRUSHED ROCK	100
SUBGRADE STABILISATION	STABILISED SUBGRADE PER SECTION 7.4.2.1 OF GEOTECH REPORT	350
SUBGRADE	NATURAL SUBGRADE OR CONTROLLED FILL (CBR ≥ 3.0%)	YES
TOTAL PAVEMENT DEPTH		630

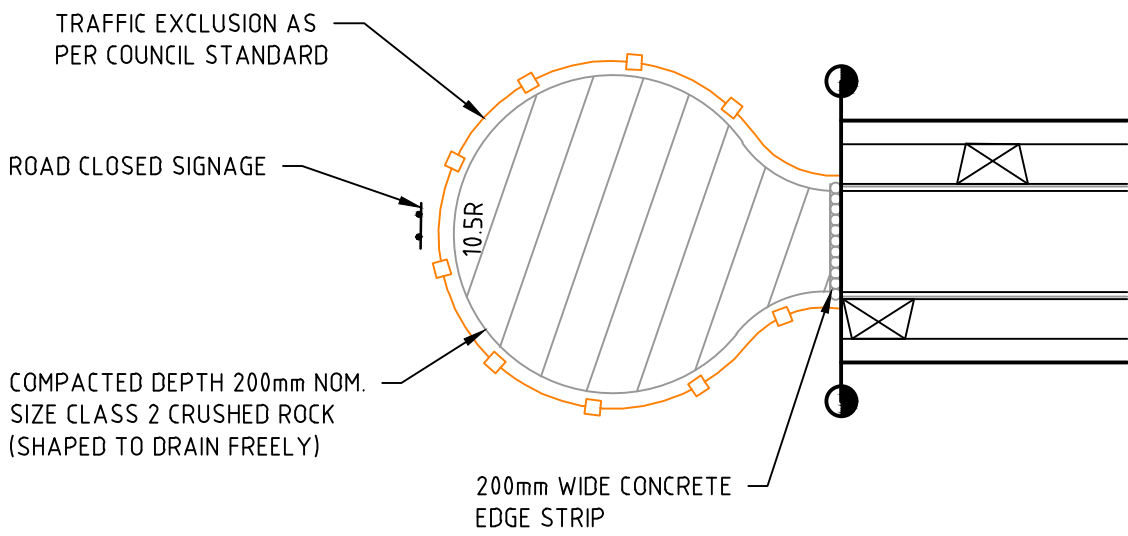
PAVEMENT DETAILS

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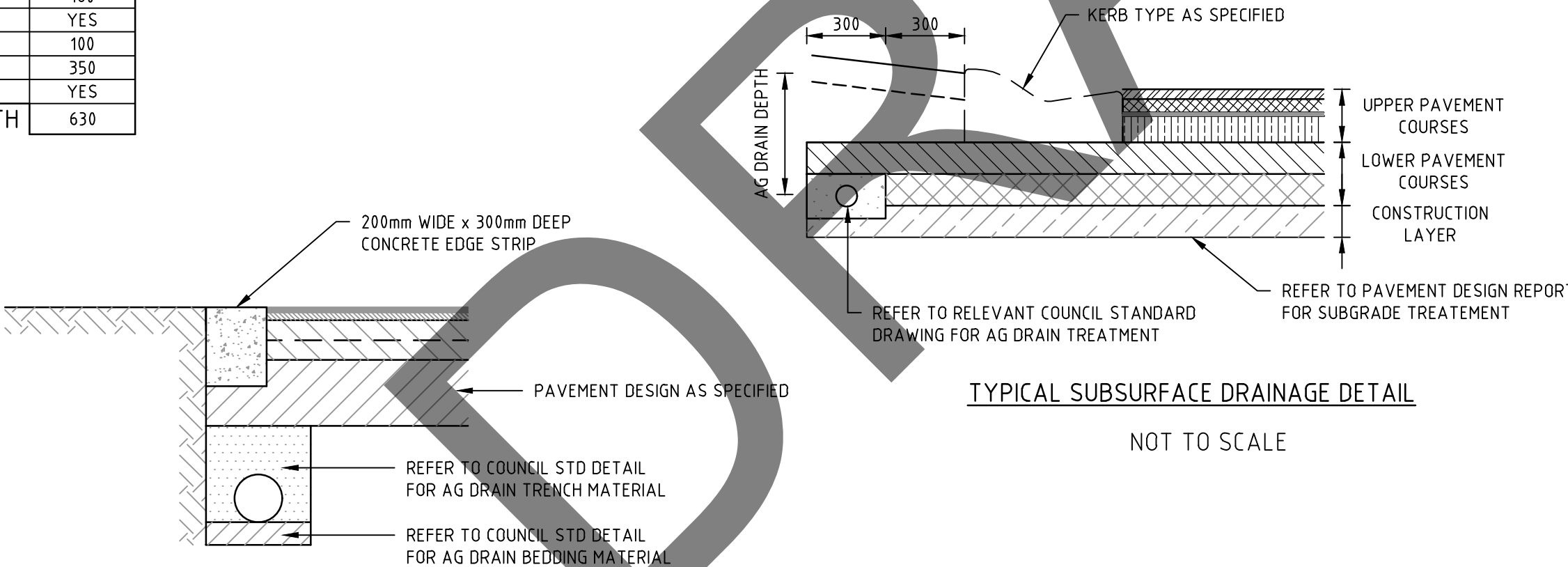
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A COPY OF THE DOCUMENT WILL BE PROVIDED ON REQUEST.

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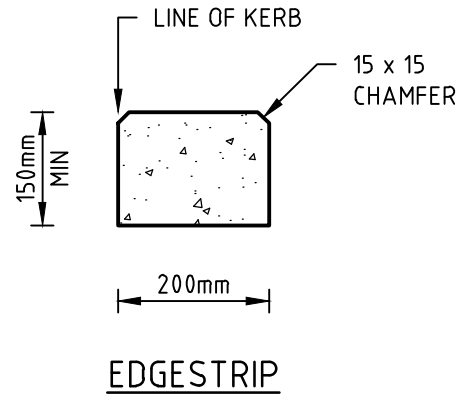


TEMPORARY TURNING AREA DETAIL NOT TO SCALE

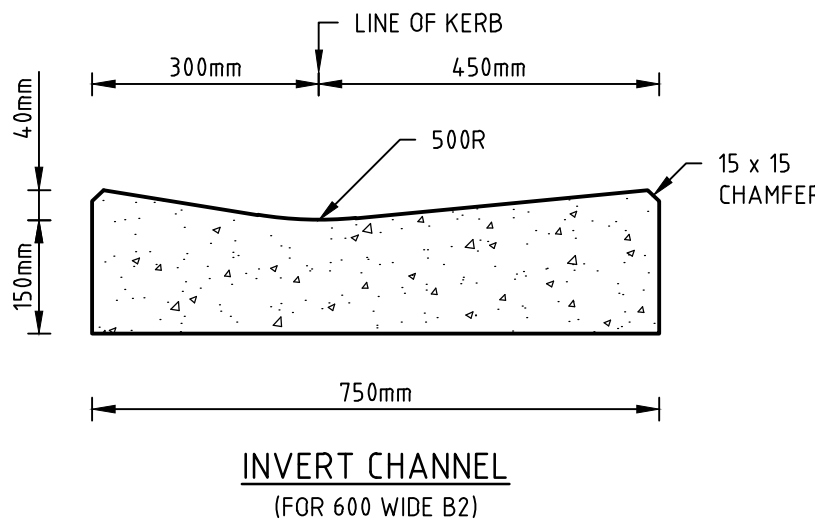


TYPICAL SUBSURFACE DRAINAGE DETAIL

NOT TO SCALE



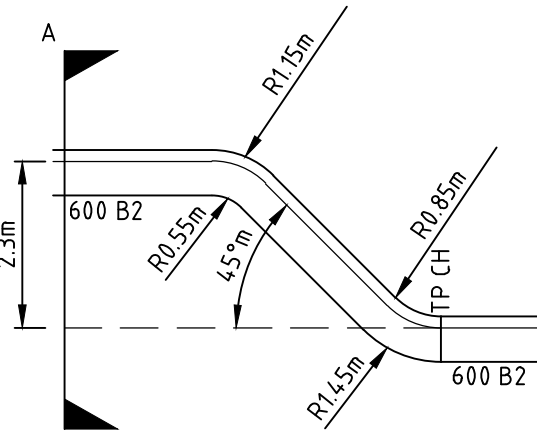
EDGE STRIP



INVERT CHANNEL
(FOR 600 WIDE B2)

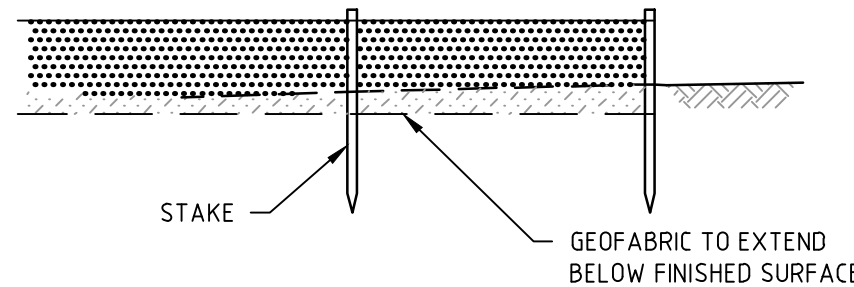
PAVEMENT PLAN

H 1:1000
SCALE @ A1



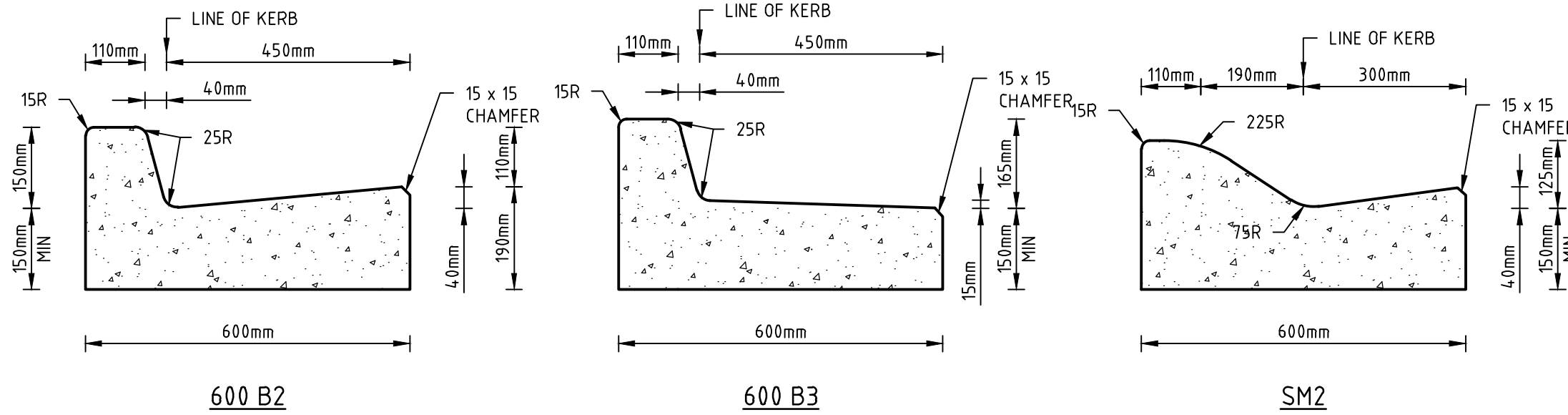
PARKING BAY SETOUT

NOT TO SCALE



SILT CONTROL FOR LOTS

NOT TO SCALE



STANDARD KERB PROFILES

NOTE: ALL KERB & CHANNEL AS PER EDMC STD DRAWING EDMC 301

H 1:100
SCALE @ A1

Rev	Amendments	Approved	Date
B	ISSUED TO COUNCIL	T.A	30/07/25
A	ISSUED FOR TENDER	T.A	21/03/25

Scale



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Authorised
T.ABBOTT

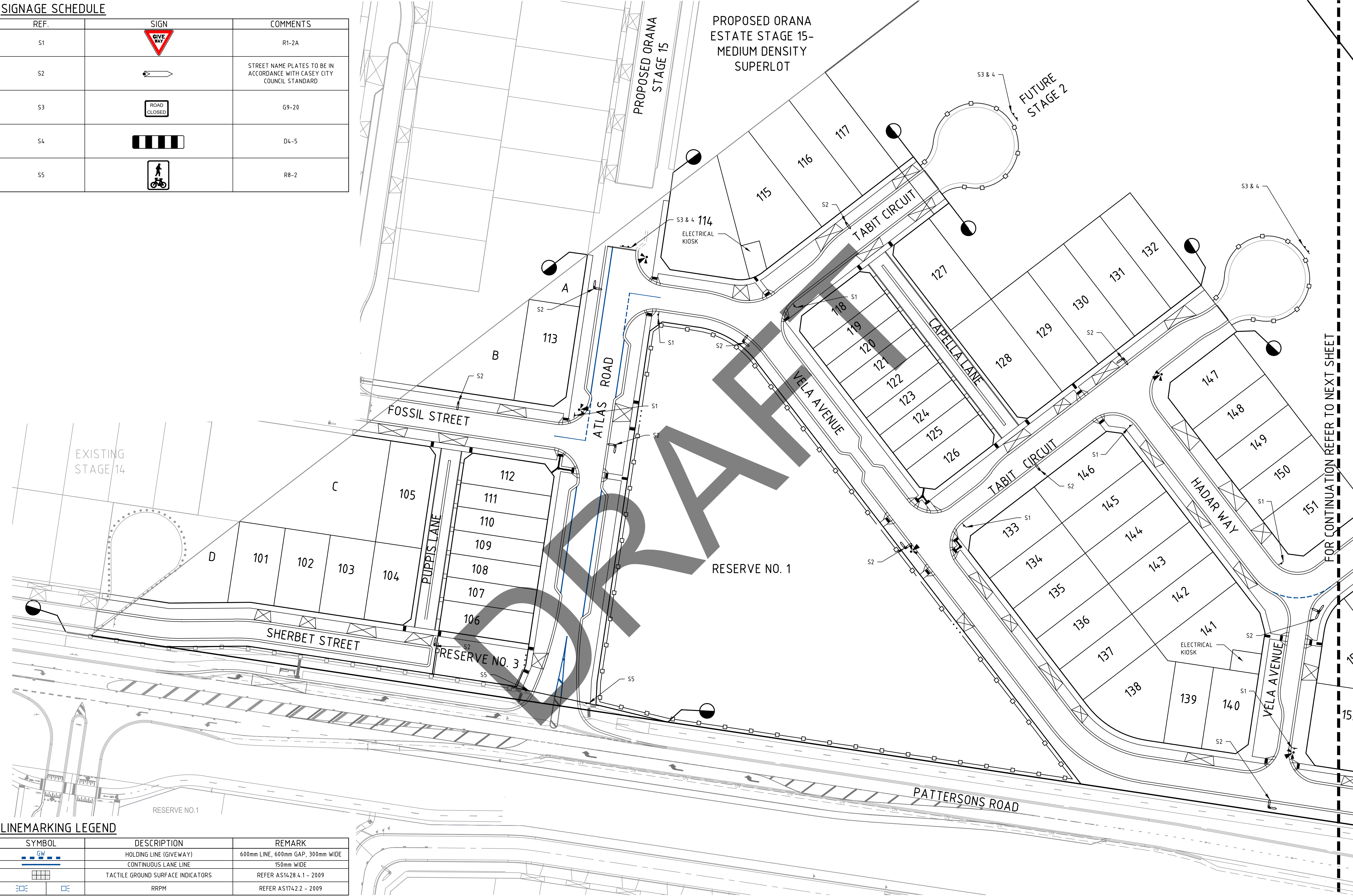
Checked
B.WARNAKULASURIYA
Date
JULY 25

ALMA ESTATE
STAGE 1
ROAD & DRAINAGE
PAVEMENT & TYPICAL DETAILS
CASEY CITY COUNCIL
SIG GROUP

PRELIMINARY Drg No **322764-001CR700** Rev **B**

SIGNAGE SCHEDULE

REF.	SIGN	COMMENTS
S1		R1-2A
S2		STREET NAME PLATES TO BE IN ACCORDANCE WITH CASEY CITY COUNCIL STANDARD
S3		G9-20
S4		D4-5
S5		R8-2

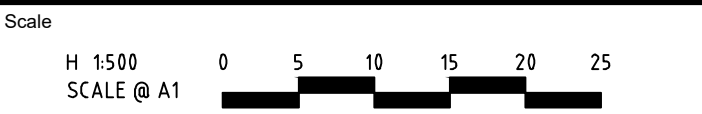


LINEMARKING LEGEND

SYMBOL	DESCRIPTION	REMARK
	HOLDING LINE (GIVEWAY)	600mm LINE, 600mm GAP, 300mm WIDE
	CONTINUOUS LANE LINE	150mm WIDE
	TACTILE GROUND SURFACE INDICATORS	REFER AS1428.4.1 - 2009
	RRPM	REFER AS174.2.2 - 2009

file name: 322764-001CR800.dwg, layout name: CR800, plotted by: Dinesh Rawat, file location: G:\322764\001\CR800\322764-001.dwg, data: 30/07/2025 5:44 PM, Sheet 1 of 1 Sheets

Rev	B	ISSUED TO COUNCIL	T.A	30/07/25
	A	ISSUED FOR TENDER	T.A	21/03/25
		Amendments	Approved	Date



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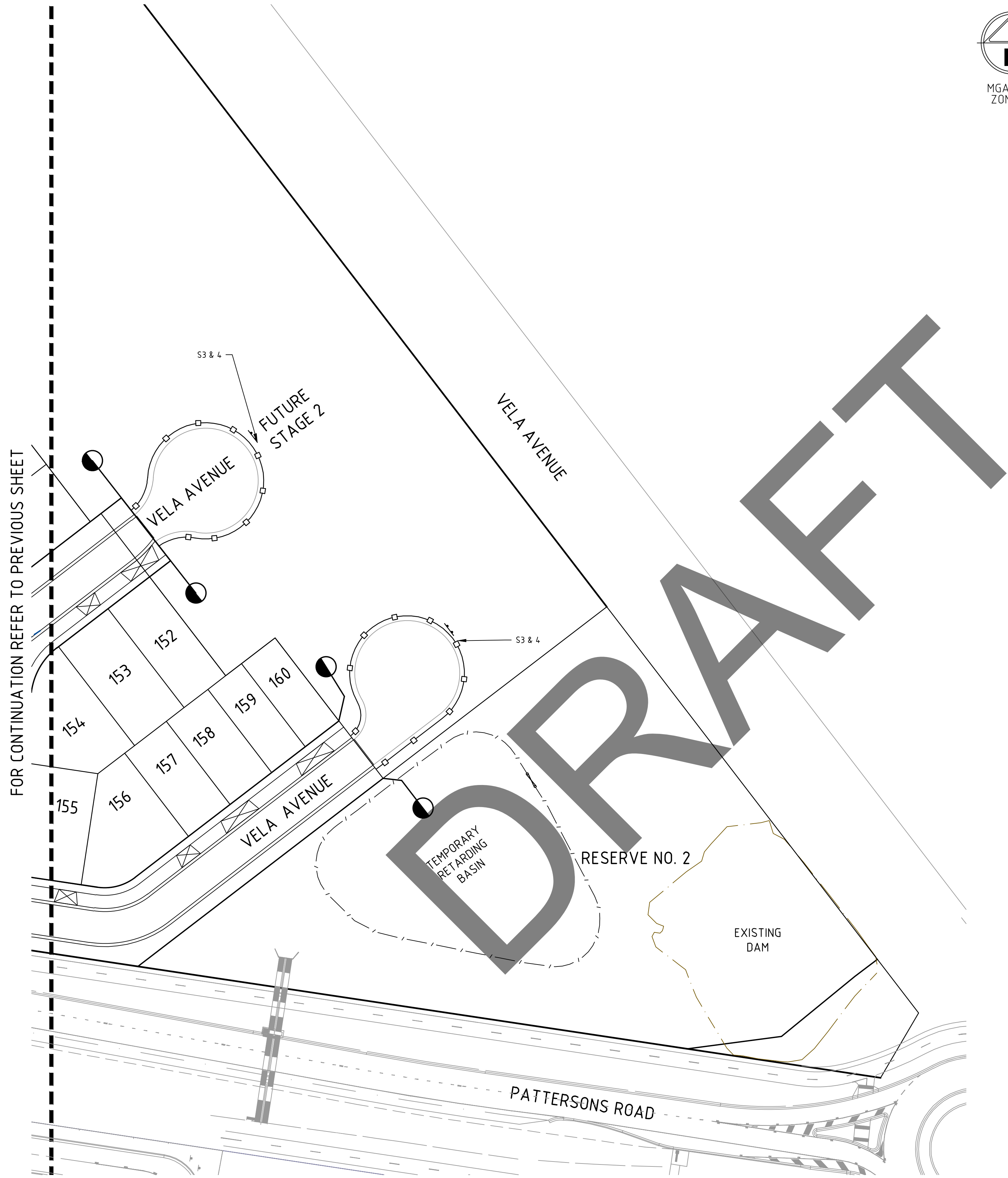
Designed
D.RAWAT
Authorised
T.ABBOTT

Checked
B.WARNAKULASURIYA
Date
JULY 25

ALMA ESTATE
STAGE 1
ROAD & DRAINAGE
SIGNAGE & LINEMARKING - SHEET 1
CASEY CITY COUNCIL
SIG GROUP

PRELIMINARY Drg No 322764-001 CR800

Rev B



SIGNAGE SCHEDULE

REF.	SIGN	COMMENTS
S1		R1-2A
S2		STREET NAME PLATES TO BE IN ACCORDANCE WITH CASEY CITY COUNCIL STANDARD
S3		G9-20
S4		D4-5

LINEMARKING LEGEND

SYMBOL	DESCRIPTION	REMARK
	HOLDING LINE (GIVEWAY)	600mm LINE, 600mm GAP, 300mm WIDE
	CONTINUOUS LANE LINE	150mm WIDE
	TACTILE GROUND SURFACE INDICATORS	REFER AS1428.4.1 - 2009
	RRPM	REFER AS1742.2 - 2009

file name: 322764-001CR801.dwg, layout name: CR801, plotted by: Doreen Revett, file location: G:\322764\001\CR801.dwg, plot date: 30/07/2025 5:44 PM, Sheet 1 of 1 Sheets

Rev	Amendments	Approved	Date
B	ISSUED TO COUNCIL	T.A	30/07/25
A	ISSUED FOR TENDER	T.A	21/03/25

Scale

H 1500
SCALE @ A1

System Certified

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Designed
D.RAWAT

Authorised
T.ABBOTT

Checked
B.WARNAKULASURIYA

Date
JULY 25

ALMA ESTATE
STAGE 1
ROAD & DRAINAGE
SIGNAGE & LINEMARKING - SHEET 2
CASEY CITY COUNCIL
SIG GROUP

PRELIMINARY

Drg No
322764-001 CR801

Rev
B