

GENERAL NOTES

A. GENERAL

1. ALL WORK TO BE CARRIED OUT TO CITY OF GREATER BENDIGO SPECIFICATIONS, STANDARD DRAWINGS AND TO THE SATISFACTION OF COUNCIL'S SENIOR SURVEILLANCE OFFICER OR HIS REPRESENTATIVE.
2. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA).
3. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
4. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND ONLY RE-TOPSOILED ON THE DIRECTION OF THE ENGINEER, TO THE FINAL FILL LEVELS SHOWN ON THE DRAWINGS. ALL FILLING IS TO BE:
 - APPROVED BY THE PROJECT GEOTECHNICAL CONSULTANT.
 - PLACED IN LAYERS NOT EXCEEDING 200MM LOOSE THICKNESS.
 - MOISTURE CONDITIONED TO WITHIN 85% TO 115% OF OPTIMUM MOISTURE CONTENT.
 - COMPACTED TO A MINIMUM 95% (STANDARD) DRY DENSITY RATIO.
 - PLACED UNDER "LEVEL 1" SUPERVISION IN ACCORDANCE WITH AS 3798-1996.
5. EXISTING DEPRESSIONS & DRAINS TRAVERSING THE SITE ARE TO BE CLEANED OUT AND DESLUGGED TO FIRM BASE AND FILLED TO FINISHED SURFACE LEVELS TO THE SPECIFIED COMPACTION STANDARDS.
6. TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBM'S THEREAFTER.
7. POSITION CONDUITS SO THAT A MINIMUM DISTANCE BETWEEN TAPPING IS 10M. CONDUITS TO BE LOCATED MIDWAY BETWEEN FENCE LINE OF LOT, UNLESS OTHERWISE SHOWN.
8. BEFORE COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 15 M DEEP, THE REQUIRED NOTICE IS TO BE SENT TO THE VICTORIA WORKOVER AUTHORITY IN ACCORDANCE WITH THE MINES ACT, 1958 NO 6320 SECTION 385 AND THE OCCUPATIONAL HEALTH AND SAFETY ACT 1985. THIS NOTIFICATION MUST BE RECEIVED BY THE AUTHORITY AT LEAST 3 DAYS PRIOR TO COMMENCING EXCAVATIONS, AND A COPY OF THE NOTIFICATION MUST BE PROVIDED TO THE SUPERINTENDENT.
9. COUNCIL'S REPRESENTATIVE IS TO BE NOTIFIED IN WRITING SEVEN (7) DAYS PRIOR TO THE COMMENCEMENT OF WORKS.
10. NO EXCAVATION WITHIN 5M OF ANY EXISTING TREE WITHOUT APPROVAL OF THE ENGINEER.
11. NO BLASTING IS PERMITTED WITHIN THE CITY OF GREATER BENDIGO WITHOUT OBTAINING COUNCIL'S SPECIAL DISPENSATION.
12. EXCAVATED MATERIAL SURPLUS TO FILLING REQUIREMENTS OF THE WORKS SHALL BE REMOVED FROM SITE AS SPECIFIED.
13. ALL SURPLUS ROCK, CONCRETE AND BITUMINOUS RUBBLE SHALL BE DISPOSED OFF SITE AS SPECIFIED. THE CONTRACTOR SHALL CHECK WITH SUPERINTENDENT WHETHER ANY LARGE ROCKS ARE REQUIRED FOR LANDSCAPE PURPOSES PRIOR TO DISPOSAL.
14. NATURESTRIPS AND ALL AREAS OF CUT OUTSIDE ROAD RESERVE TO BE SURFACED WITH 100MM MINIMUM COMPACTED LAYER TOPSOIL.

B. ROAD WORKS

1. FOOTPATHS ARE TO BE 15M WIDE UNLESS SHOWN OTHERWISE. FOOTPATHS TO BE CONSTRUCTED TO THE CITY OF GREATER BENDIGO STANDARDS.
2. CONSTRUCT LAYBACK SECTION AT VEHICLE CROSSING, REVERSING BAYS AND CAR PARKING BAYS AND PRAM CROSSING TO THE CITY OF GREATER BENDIGO STANDARDS.
3. ALL CHAINAGES REFER TO ROAD PAVEMENT CENTRELINES EXCEPT IN COURT HEADS AND INTERSECTIONS WHERE CHAINAGES REFER TO BACK OF KERB.
4. THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE MADE GOOD.
5. ALL BATTERS SHALL BE TO THE CITY OF GREATER BENDIGO STANDARDS.
 - CUT 1 IN 12 UNLESS OTHERWISE SHOWN.
 - FILL 1 IN 12 UNLESS OTHERWISE SHOWN.
6. ALL SET OUT INFORMATION GIVEN IS TO LIP OF KERB UNLESS OTHERWISE SHOWN.
7. WHERE CRUSHED ROCK IS SHOWN UNDER CONCRETE FOOTPATHS CONSTRUCTED ON FILL, THE CRUSHED ROCK IS TO BE 20MM CLASS 3. WHERE CUT BATTERS ARE STEEPER THAN 1:1 THEY MUST BE HYDRO MULCHED.
8. SUBGRADE BE COMPACTED TO A MINIMUM OF 98% MAXIMUM DRY DENSITY (AS3798), WITH THE SUBBASE COMPACTED IN ACCORDANCE WITH SCALE C INVICROADS TABLE 306.071 USING FINE CRUSHED ROCK AND THE BASE COURSE TO 100% MINIMUM MODIFIED DRY DENSITY. ANY FILLING BENEATH ROAD PAVEMENT AREAS TO BE COMPACTED TO 100% OF MAXIMUM DRY DENSITY. COMPACTION TESTING TO BE AS PER COUNCIL REQUIREMENTS.
9. ANY BACKFILL WITHIN 1.0M OF A COUNCIL ASSET (FOOTPATH OR ROAD) IS TO BE FCR. FILL MATERIAL IS ACCEPTABLE IF COMPACTED TO ENSURE 95% COMPACTION. COMPACTION TESTING TO BE PERFORMED AT ONE PER 60M OF TRENCH.
10. CONCRETE TO HAVE 28DAY STRENGTH OF 25MPA UNLESS NOTED OTHERWISE

DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES - SHEET 1	1	A
CR200	ROAD LAYOUT PLANS - SHEET 1	2	A
CR201	ROAD LAYOUT PLANS - SHEET 2	3	A
CR300	ROAD LONG SECTIONS - SHEET 1	4	A
CR301	ROAD LONG SECTIONS - SHEET 2	5	A
CR400	ROAD CROSS SECTIONS - SHEET 1	6	A
CR401	ROAD CROSS SECTIONS - SHEET 2	7	A
CR402	ROAD CROSS SECTIONS - SHEET 3	8	A
CR403	ROAD CROSS SECTIONS - SHEET 4	9	A
CR404	ROAD CROSS SECTIONS - SHEET 5	10	A
CR500	INTERSECTION DETAILS - SHEET 1	11	A
CR600	DRAINAGE LONG SECTIONS - SHEET 1	12	A
CR601	DRAINAGE LONG SECTIONS - SHEET 2	13	A
CR602	DRAINAGE LONG SECTIONS - SHEET 3	14	A
CR603	DRAINAGE LONG SECTIONS - SHEET 4	15	A
CR604	DRAINAGE LONG SECTIONS - SHEET 5	16	A
CR605	DRAINAGE LONG SECTIONS - SHEET 6	17	A
CR606	DRAINAGE LONG SECTIONS - SHEET 7	18	A
CR700	PAVEMENT AND TYPICAL DETAILS - SHEET 1	19	A
CR800	SIGNAGE AND LINEMARKING - SHEET 1	20	A
CR801	SIGNAGE AND LINEMARKING - SHEET 2	21	A



LOCALITY PLAN

NOT TO SCALE

LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT		
WATER RECYCLED		
UNDERGROUND ELECTRICITY		
TELECOMMUNICATIONS & SERVICE PIT		
OPTIC FIBRE		
OVERHEAD TELECOMMUNICATIONS		
GAS MAIN		
SEWER & MAINTENANCE STRUCTURE		
CENTRAL INVERT		
COUNCIL STORMWATER DRAIN AND PIT		
COUNCIL STORM WATER PITS		
HOUSE DRAIN		
STORM WATER DRAINAGE PIT NUMBER		
GAS & WATER CONDUITS		
CONCRETE VEHICLE CROSSING		
SURFACE CONTOUR MINOR		
SURFACE CONTOUR MAJOR		
SURFACE LEVEL		
BATTER LEVEL (TOP / TOE)		
EARTHWORKS GRADE		
SIGN AND POST		
LIGHT & POLE (BY OTHERS)		
STREET SIGN		
PERMANENT SURVEY MARK		
TEMPORARY BENCH MARK		
BOLLARD		
ROAD CHAINAGES		
LOT CHAINAGES		
SETOUT POINT		
LIMIT OF WORKS		
BATTER		
EXCAVATION GREATER THAN 0.20m		
FILLING GREATER THAN 0.20m		
ROCK BEACHING		
FENCE - TREE PROTECTION		
FENCE - VEHICLE EXCLUSION		
FENCES		
GUARD RAIL		
TREE (& SURVEYED CANOPY) TO BE RETAINED		
TREE TO BE PROTECTED		
TREE TO BE REMOVED		
VEGETATION LINE		
FOOTPATH		

SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE	
							SIDE	OFFSET	SIDE	OFFSET
DELAWARE PARADE	W	2.40	W	190	E	190	E	x 0.8	E	2.40
COFFEY STREET	N	2.40	N	190	S	190	S	x 0.8	S	2.40
GARRETT STREET	W	2.40	W	190	E	190	E	x 0.8	E	2.40
DYMOCK STREET	W	2.40	W	190	E	190	E	x 0.8	E	2.40

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



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.

A	PRELIMINARY ISSUE	B.I	MAY 2022
Rev	Amendments	Approved	Date

Scale



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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	Checked
D.SHEEHAN	
Authorised	Date
H.OAKLEY-WARREN	MAY 2022

PROVENANCE ESTATE
STAGE 8
ROAD AND DRAINAGE
GENERAL NOTES - SHEET 1
CITY OF GREATER BENDIGO
HUNTLY PROPERTY HOLDING PTY LTD

DRAFT

Drq No

309101CR100

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MGA 2020
ZONE 55

RESERVE NO 1

PROVENANCE ESTATE

STAGE 7

PROVIDE 100mm THICK CRUSHED ROCK TURNAROUND WITH "ROAD CLOSED" SIGN. ENSURE AREA IS SHAPED TO ALLOW RUNOFF OF STORMWATER

CONNECT TO
EXISTING PIT
CONSTRUCTED
AS A PART OF
STAGE 7 WORKS

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Rev	Amendments	Approved	Date



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Designed
D.SHEEHAN

Authorised
H.OAKLEY-WARREN

**PROVENANCE ESTATE
STAGE 8
ROAD AND DRAINAGE
ROAD LAYOUT PLANS - SHEET 1
CITY OF GREATER BENDIGO
HUNTLY PROPERTY HOLDING PTY LTD**

Rev
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WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
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TBM - ROD
E 264.011.073
N 5939805.759
RL 174.306

TBM - SPIKE
E 264.022.770
N 594.0027.285
RL 172.510

TBM - STAR PICKET
E 264.006.955
N 5939939.801
RL 173.142

PROVENANCE ESTATE
FUTURE STAGE 9

PROVENANCE ESTATE
FUTURE STAGE 10

PROVENANCE ESTATE
STAGE 7

LEGEND

- TB XXX.XX TOP OF BATTER LEVELS
- FS XXX.XX FINISHED SURFACE LEVELS (AT BOUNDARY)
- ES XXX.XX EXISTING SURFACE LEVELS (AT BOUNDARY)
- EXCAVATION GREATER THAN 200mm
- FILLING GREATER THAN 200mm

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Checked
Date
MAY 2022

**PROVENANCE ESTATE
STAGE 8
ROAD AND DRAINAGE
ROAD LAYOUT PLANS - SHEET 2
CITY OF GREATER BENDIGO
HUNTLY PROPERTY HOLDING PTY LTD**

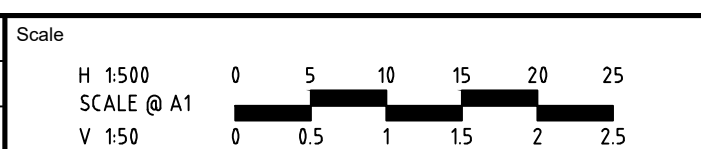
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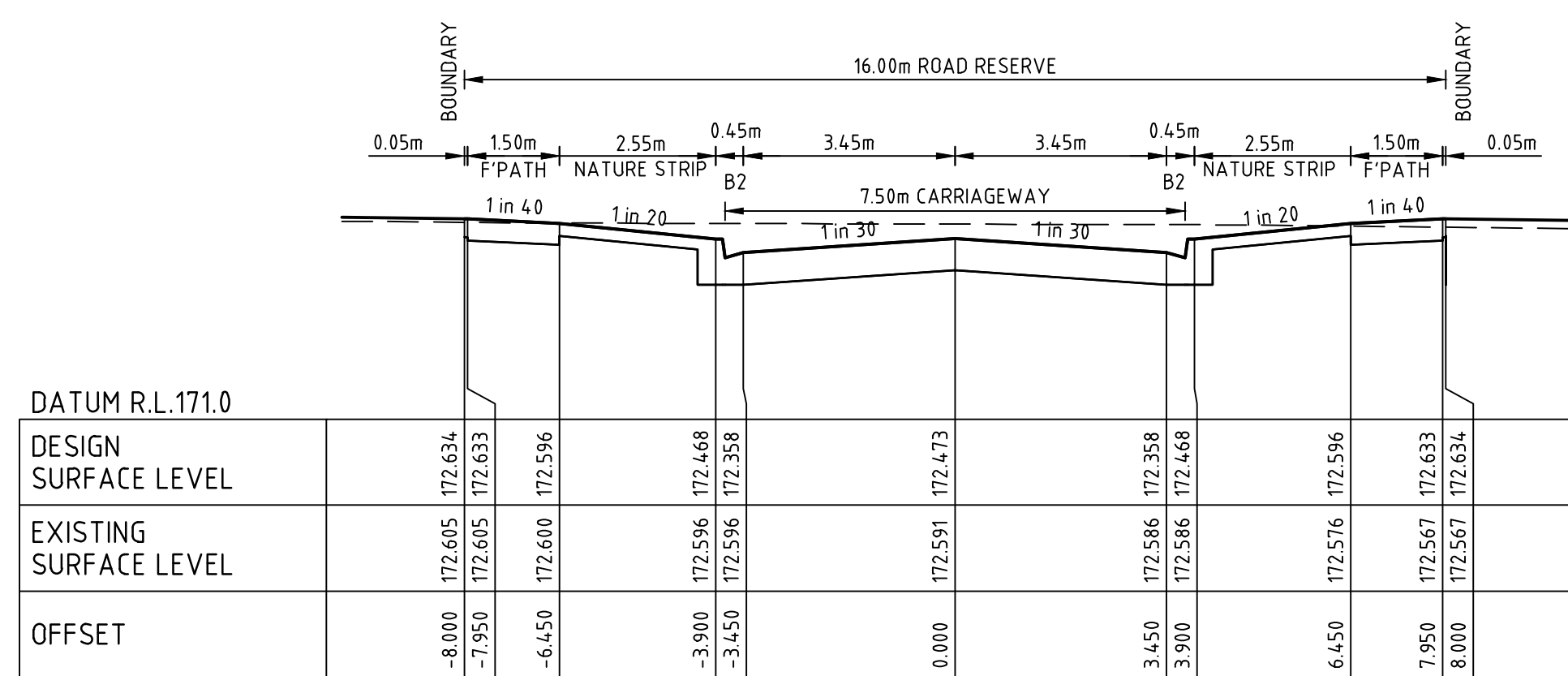
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**PROVENANCE ESTATE
STAGE 8
ROAD AND DRAINAGE
ROAD LONG SECTIONS - SHEET 2
CITY OF GREATER BENDIGO
HUNTLY PROPERTY HOLDING PTY LTD**

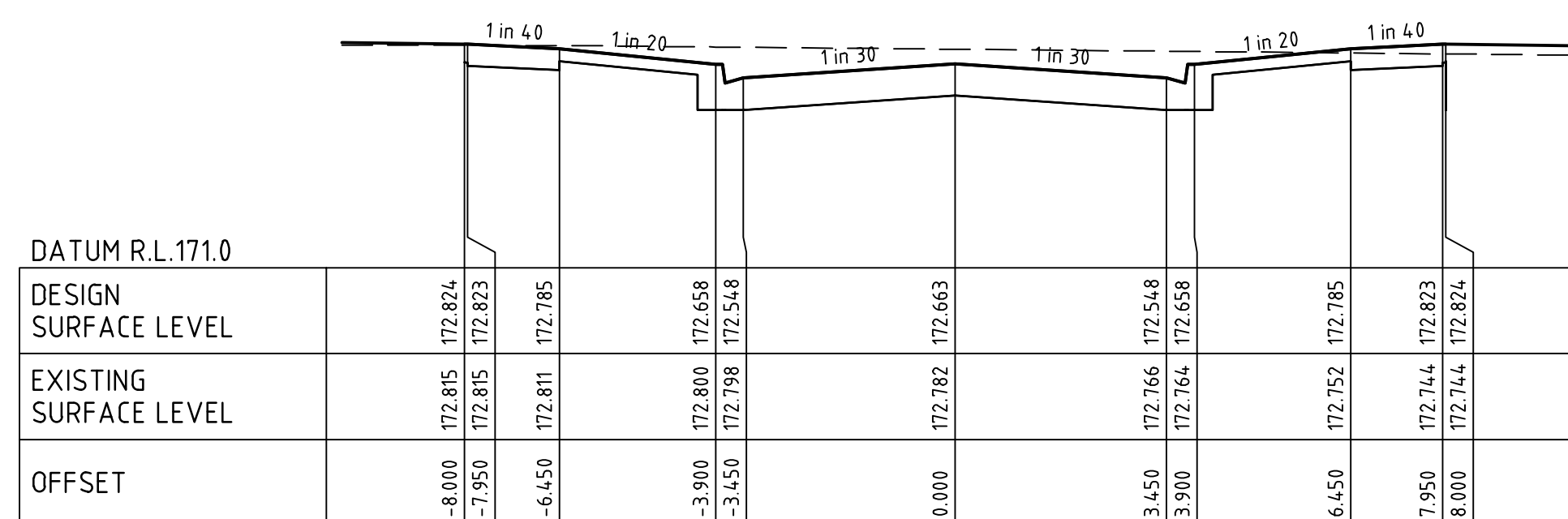
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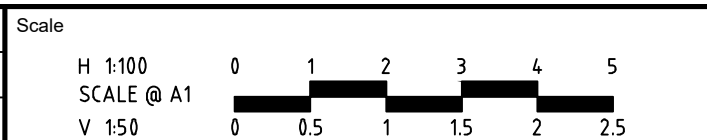
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DELAWARE PARADE	CH 340.00
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Authorised	Date
H.OAKLEY-WARREN	MAY 2022

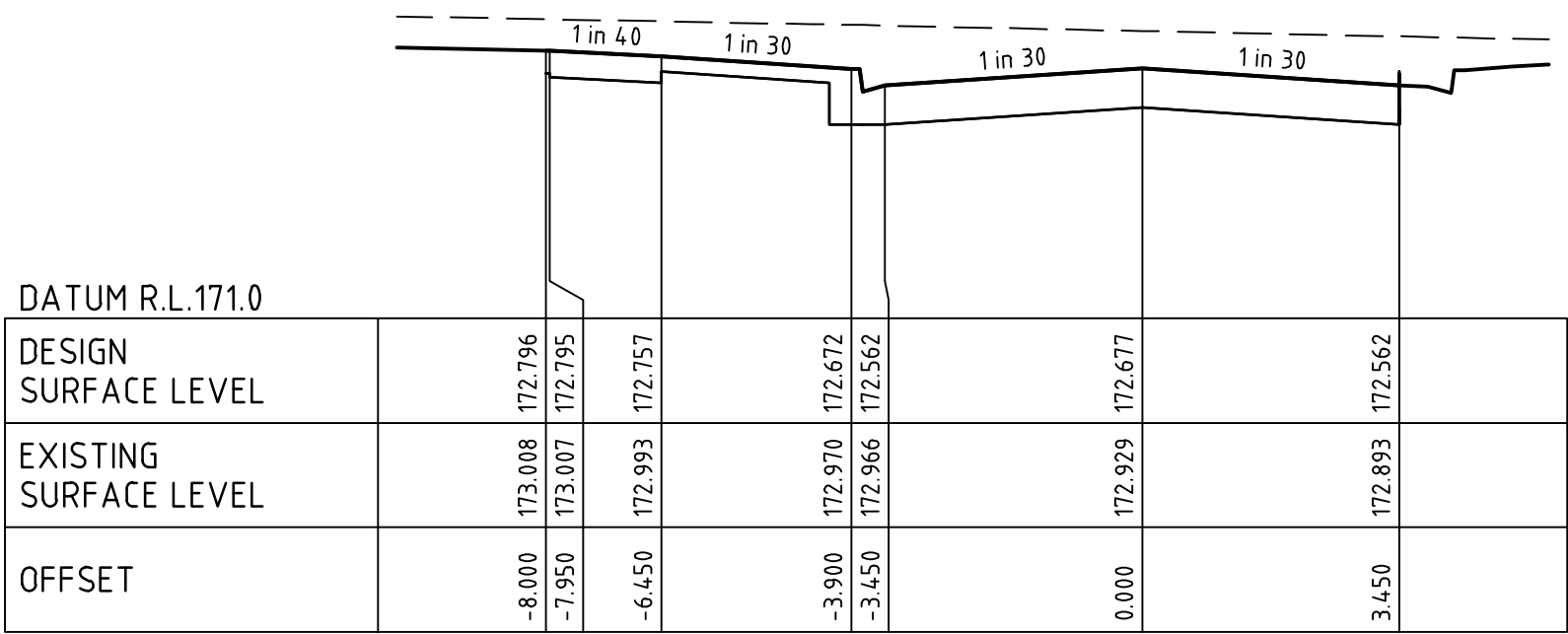
**PROVENANCE ESTATE
STAGE 8
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 2
CITY OF GREATER BENDIGO
HUNTLY PROPERTY HOLDING PTY LTD**

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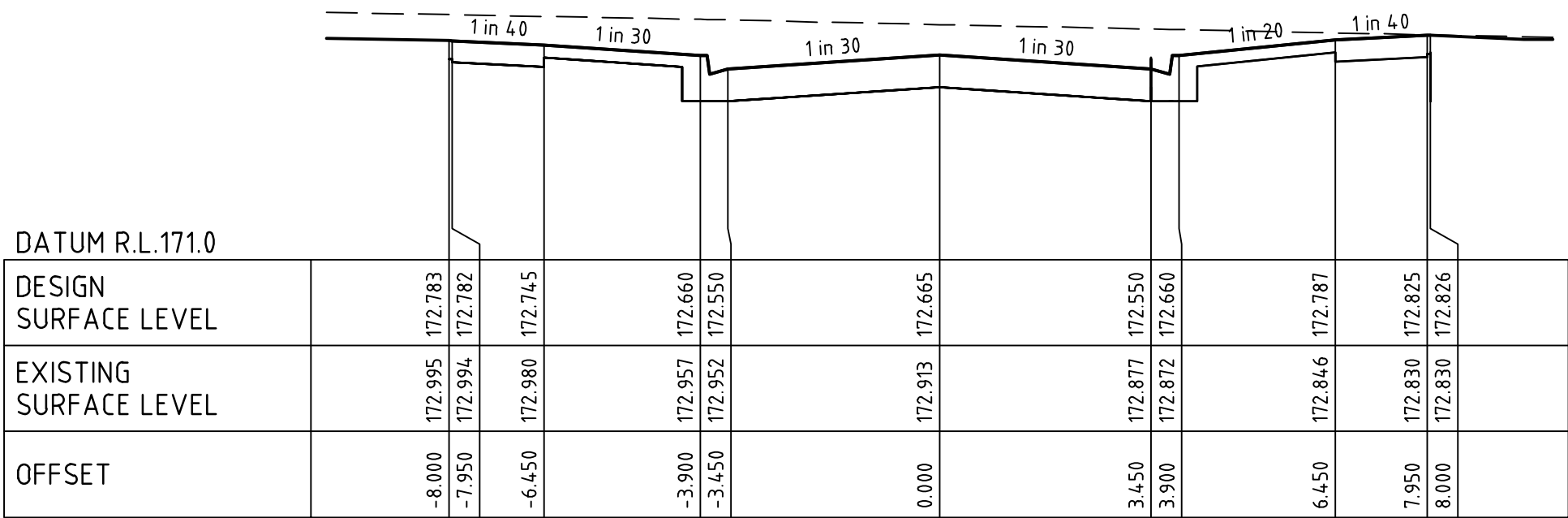
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309101CR401

Rev

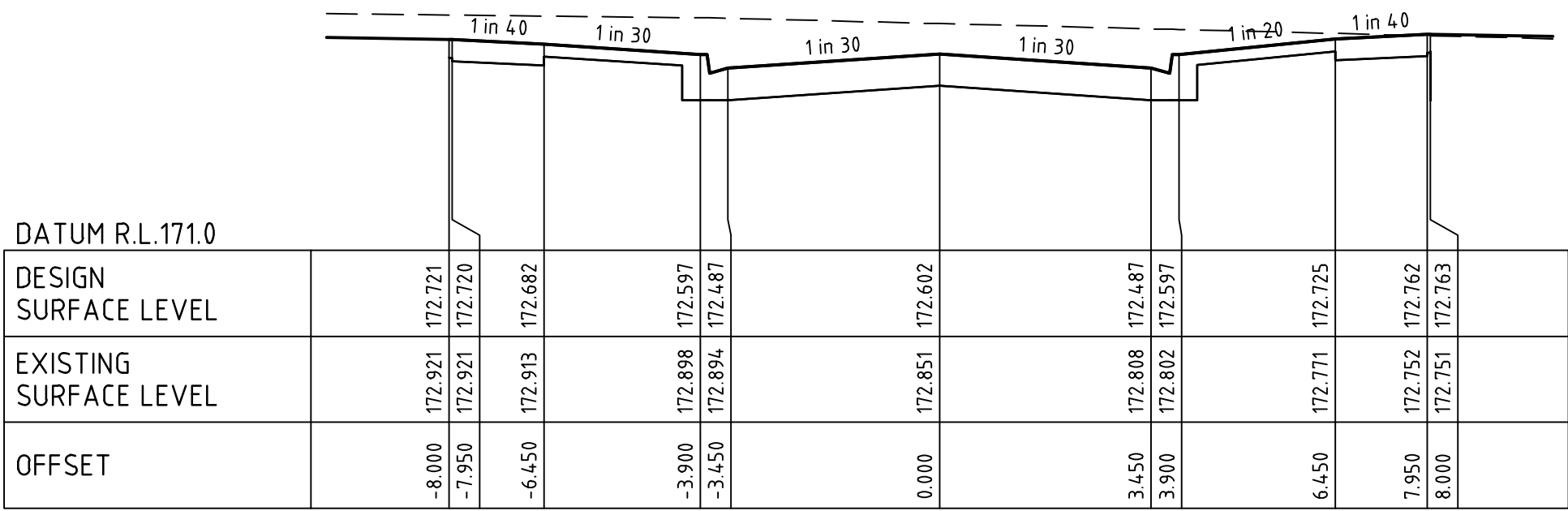
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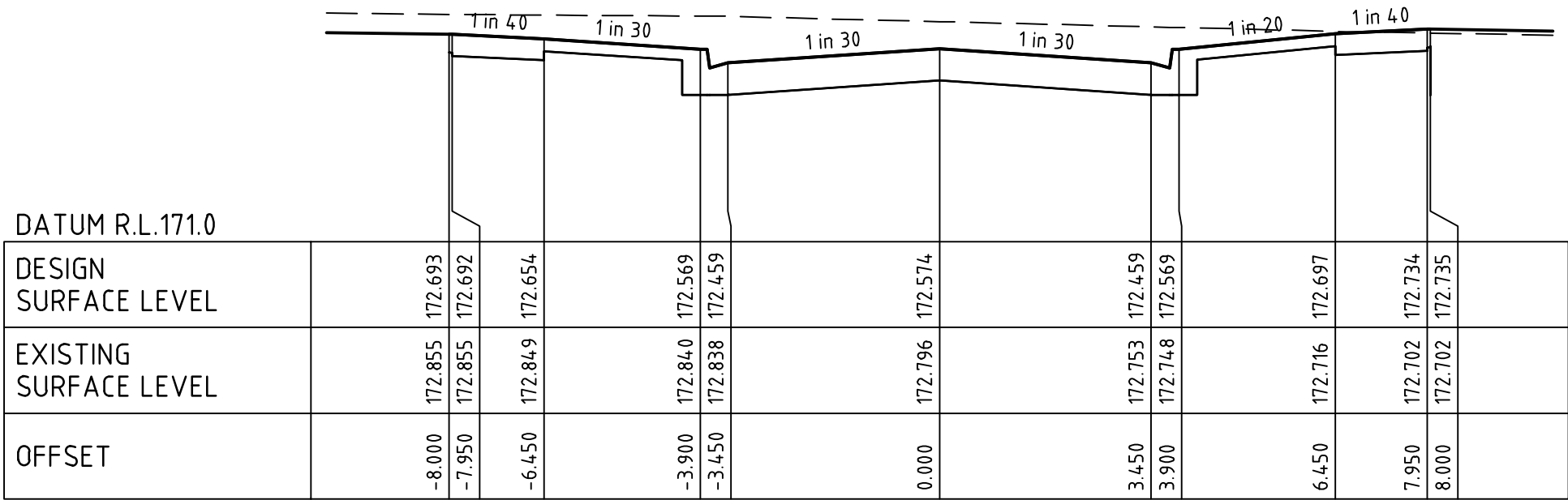
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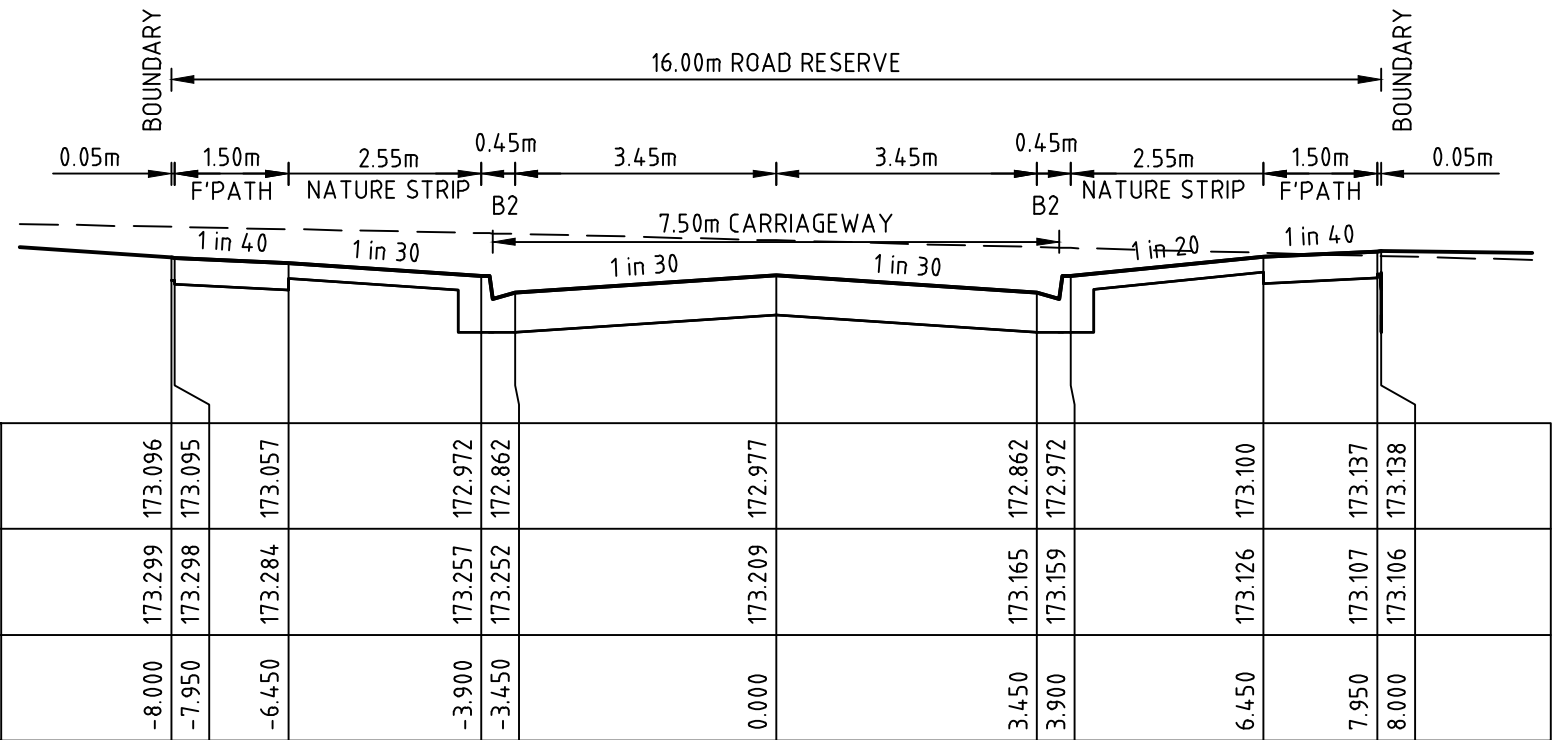
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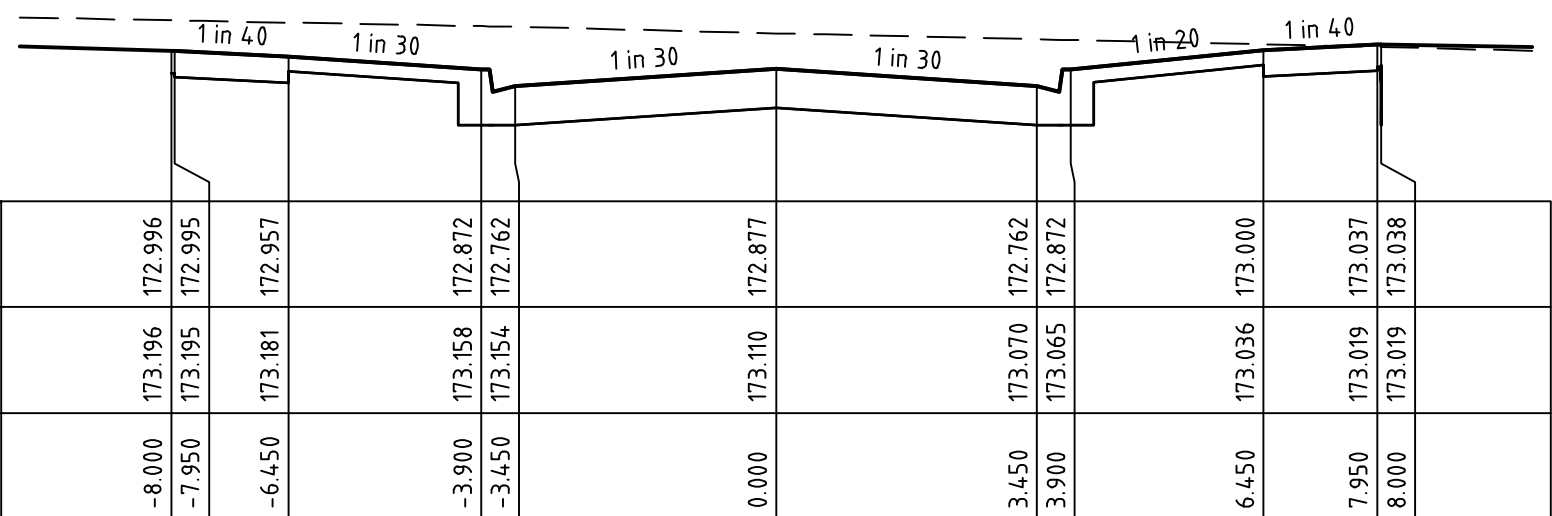
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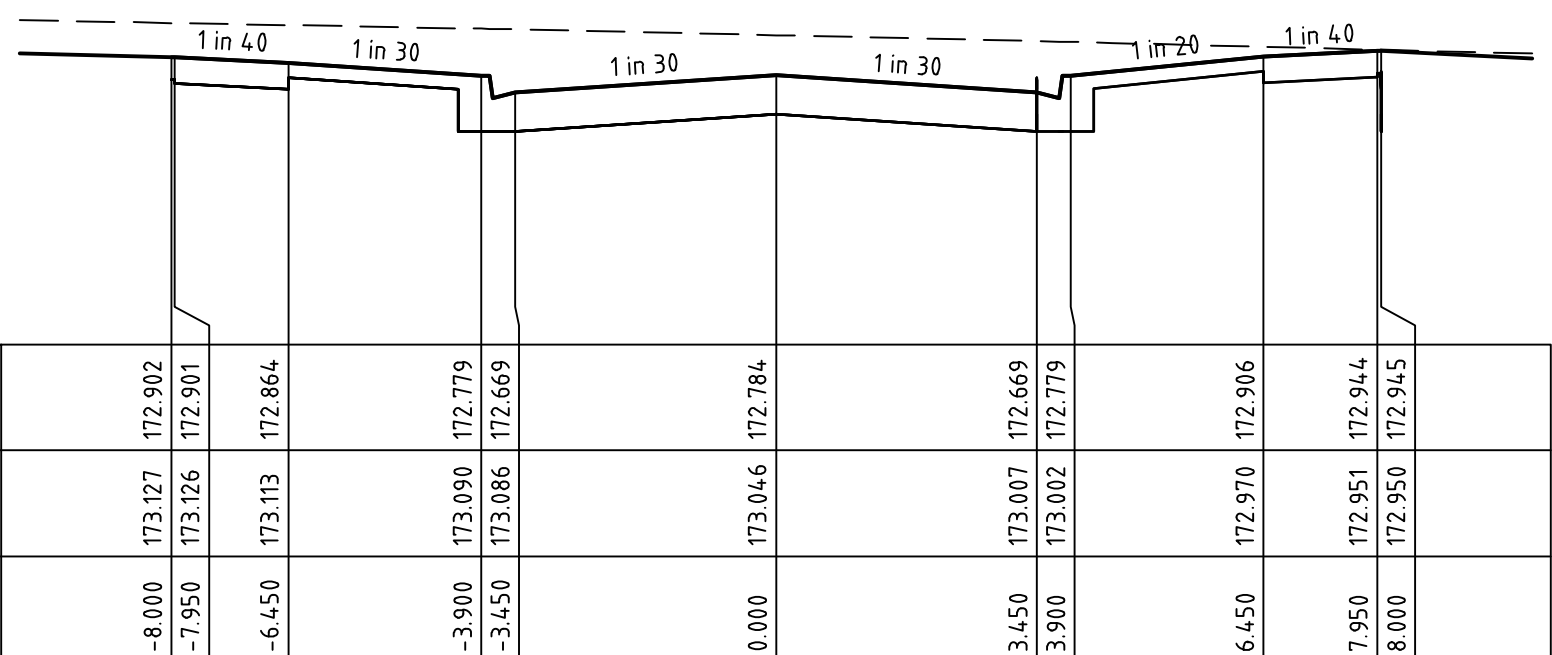
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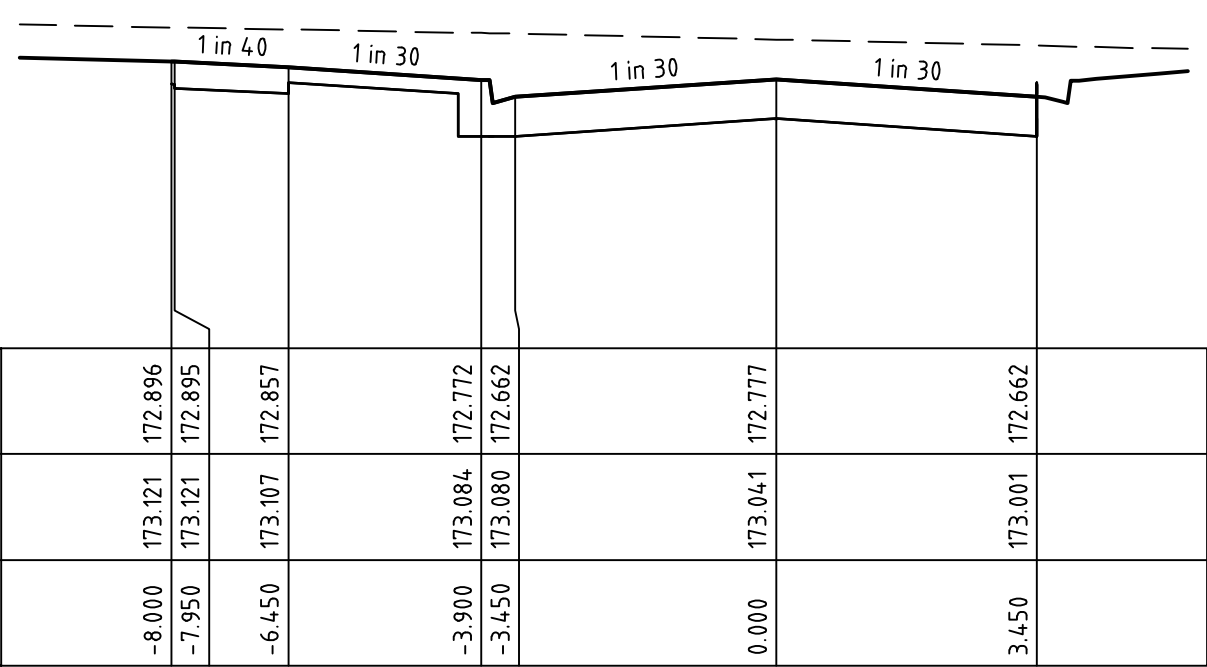
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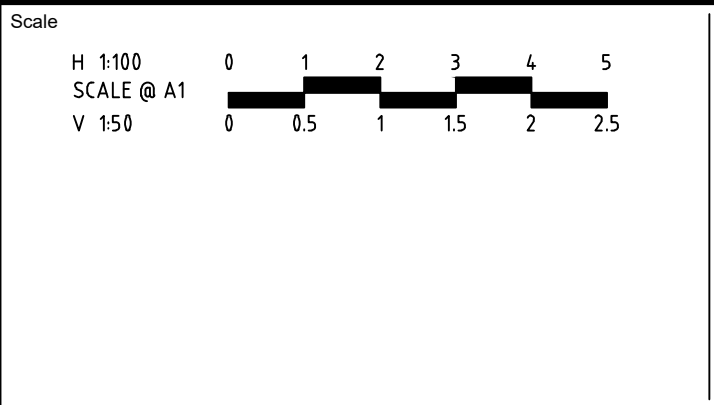


COFFEY STREET CH 161.30



COFFEY STREET CH 160.00

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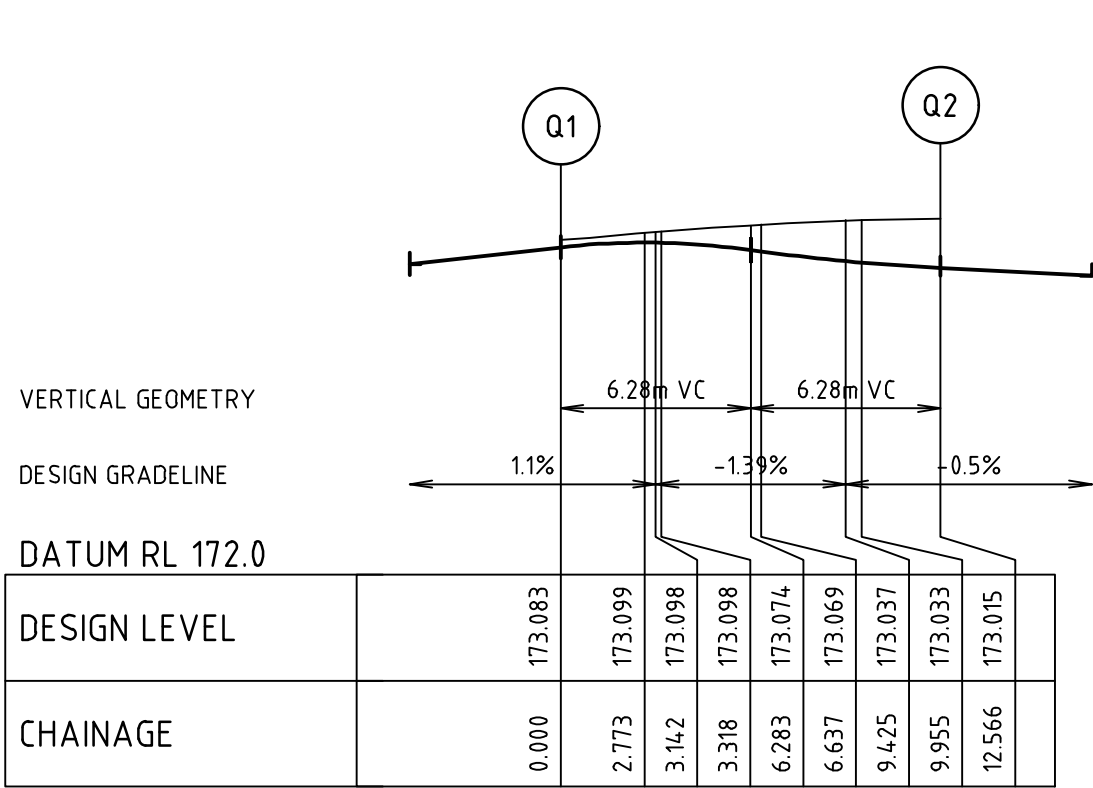
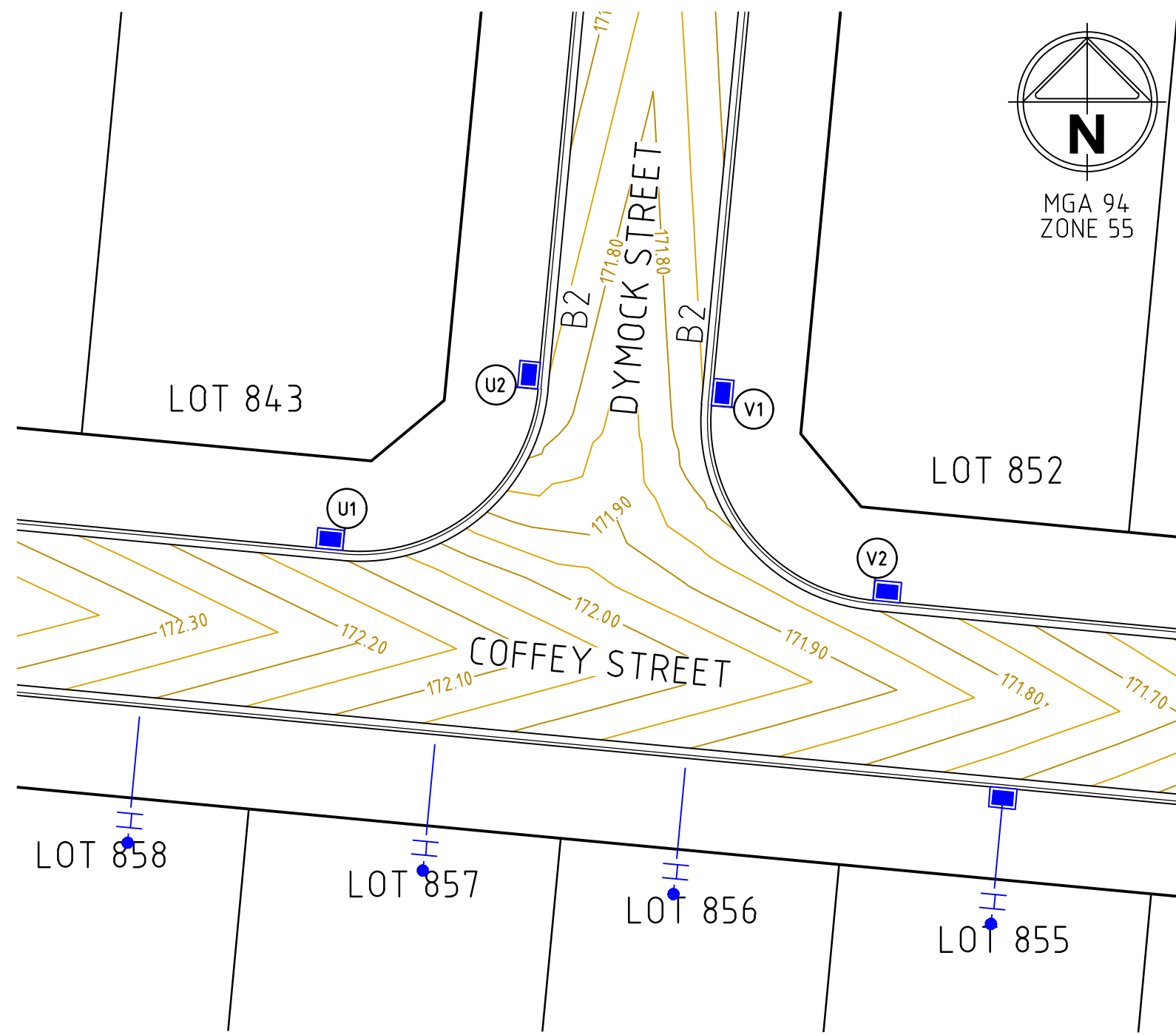
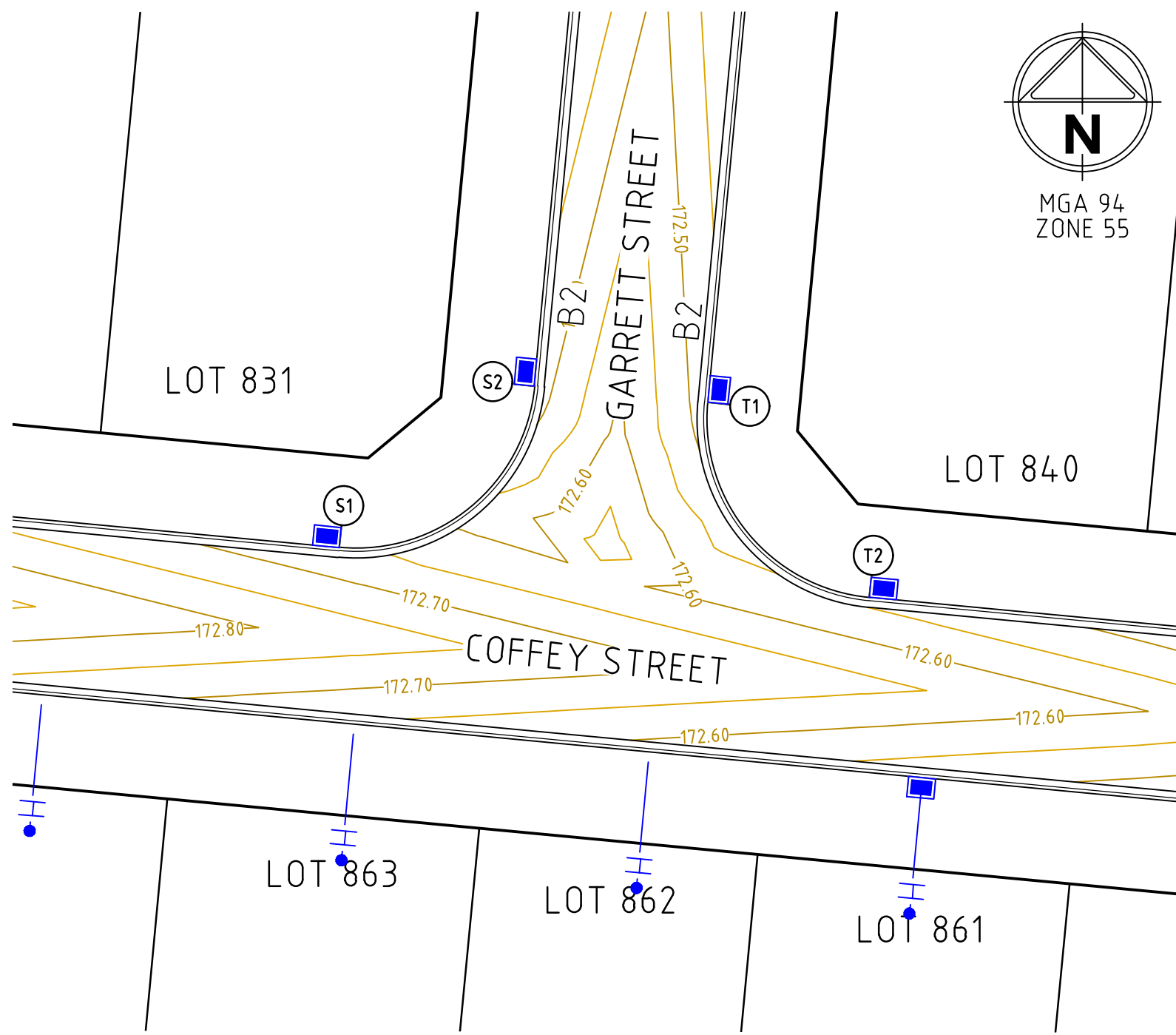
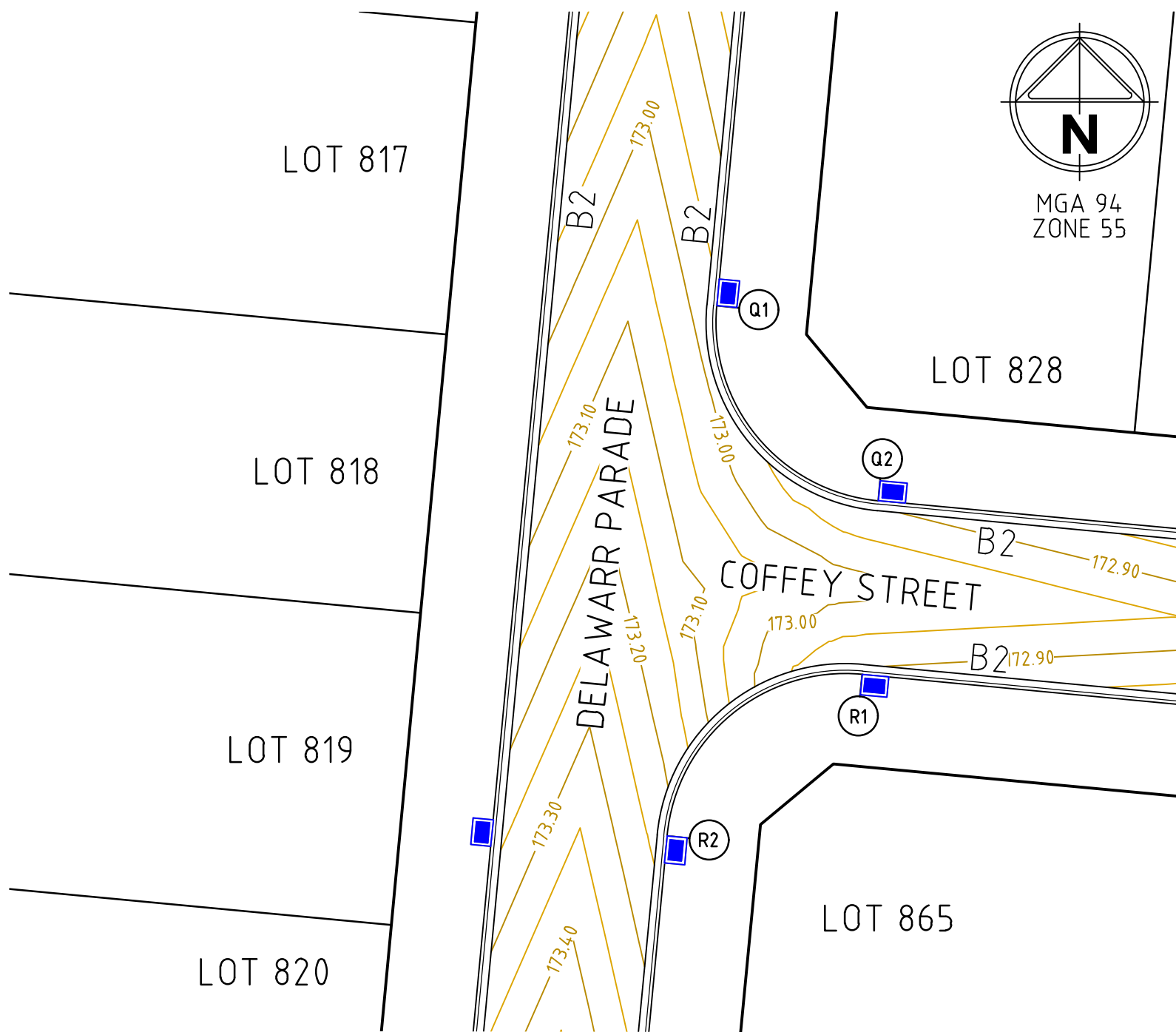
**PROVENANCE ESTATE
STAGE 8
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 4
CITY OF GREATER BENDIGO
HUNTLY PROPERTY HOLDING PTY LTD**

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Drg No
309101CR403

Rev
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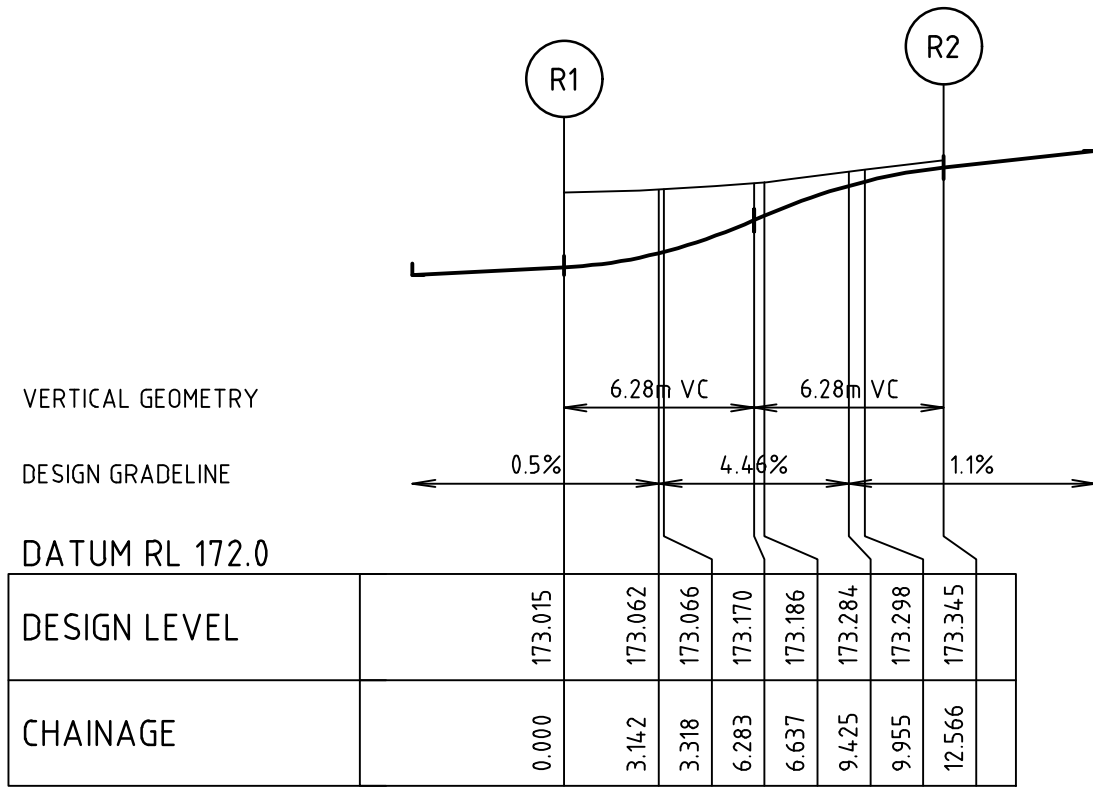
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ALIGNMENT Q

ALIGNMENT Q			
POINT NO	EASTING	NORTHING	RL
Q1	264076.083	5939927.260	173.083
1/4	264076.480	5939923.917	173.098
1/2	264077.887	5939921.409	173.074
3/4	264080.089	5939919.560	173.040
Q2	264083.300	5939918.547	173.015

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
Q1-Q2	8.000	12.566	11.314	2.343	1.826



ALIGNMENT R

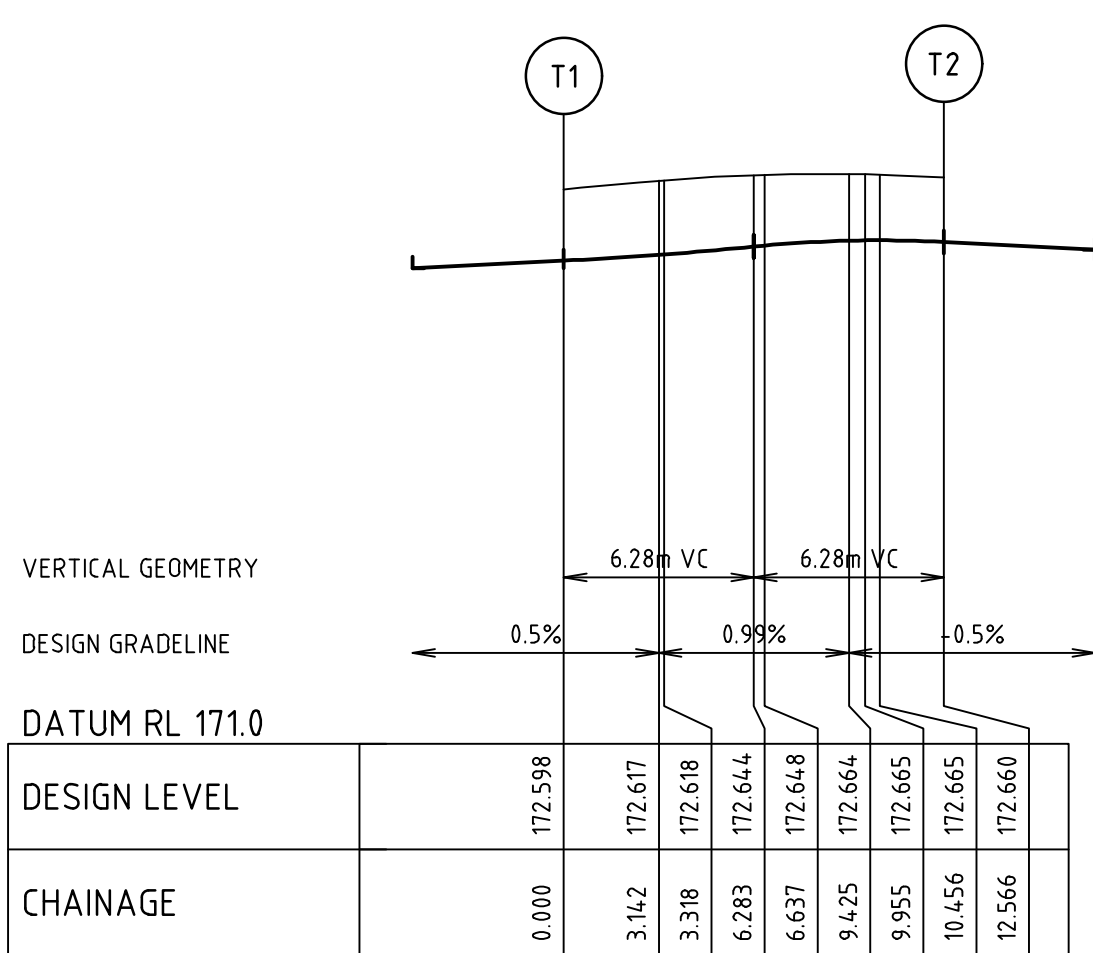
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POINT NO	EASTING	NORTHING	RL
R1	264082.570	5939910.781	173.015
1/4	264079.227	5939910.383	173.068
1/2	264076.719	5939908.977	173.170
3/4	264074.870	5939906.775	173.277
R2	264073.857	5939903.564	173.345

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
R1-R2	8.000	12.566	11.314	2.343	1.826

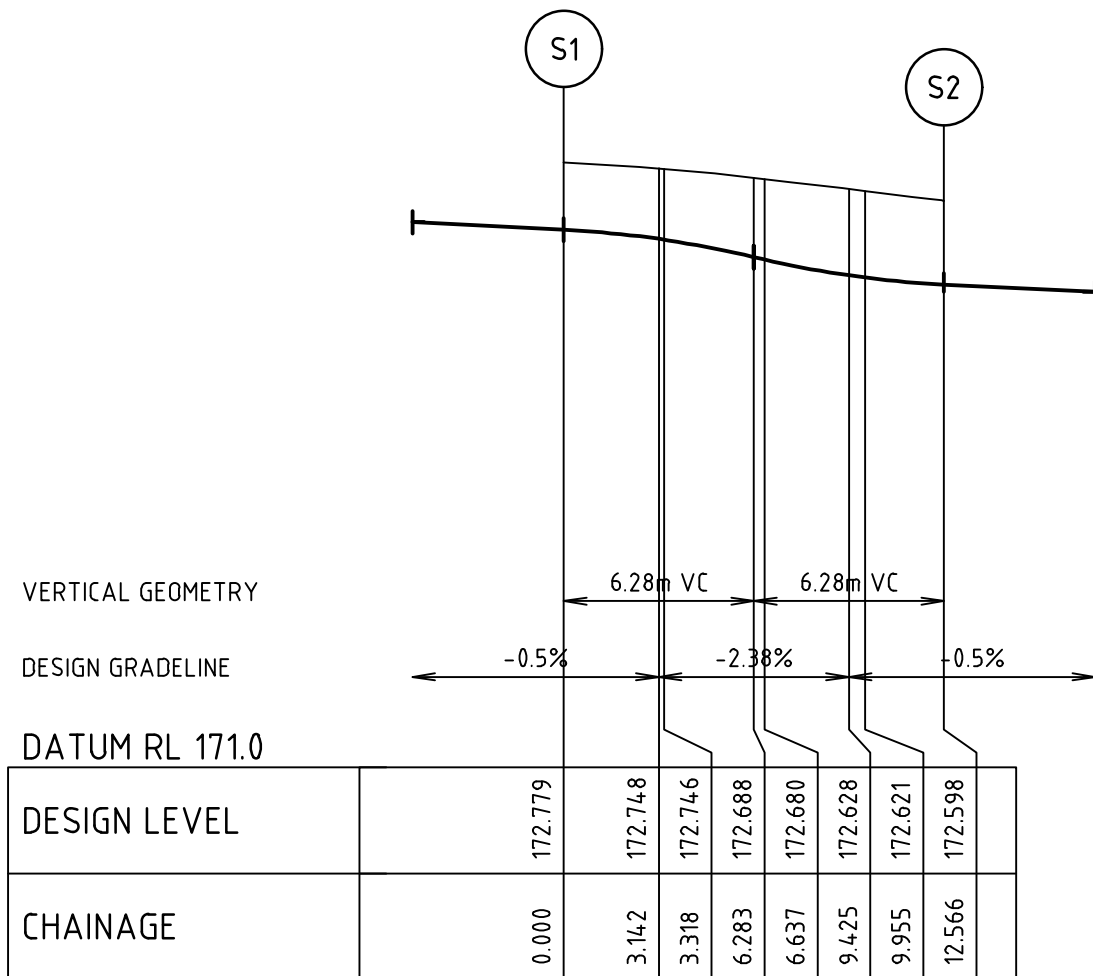
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S1	264130.293	5939914.132	172.779
1/4	264133.636	5939914.530	172.744
1/2	264136.144	5939915.936	172.688
3/4	264137.993	5939918.138	172.632
S2	264139.006	5939921.349	172.598

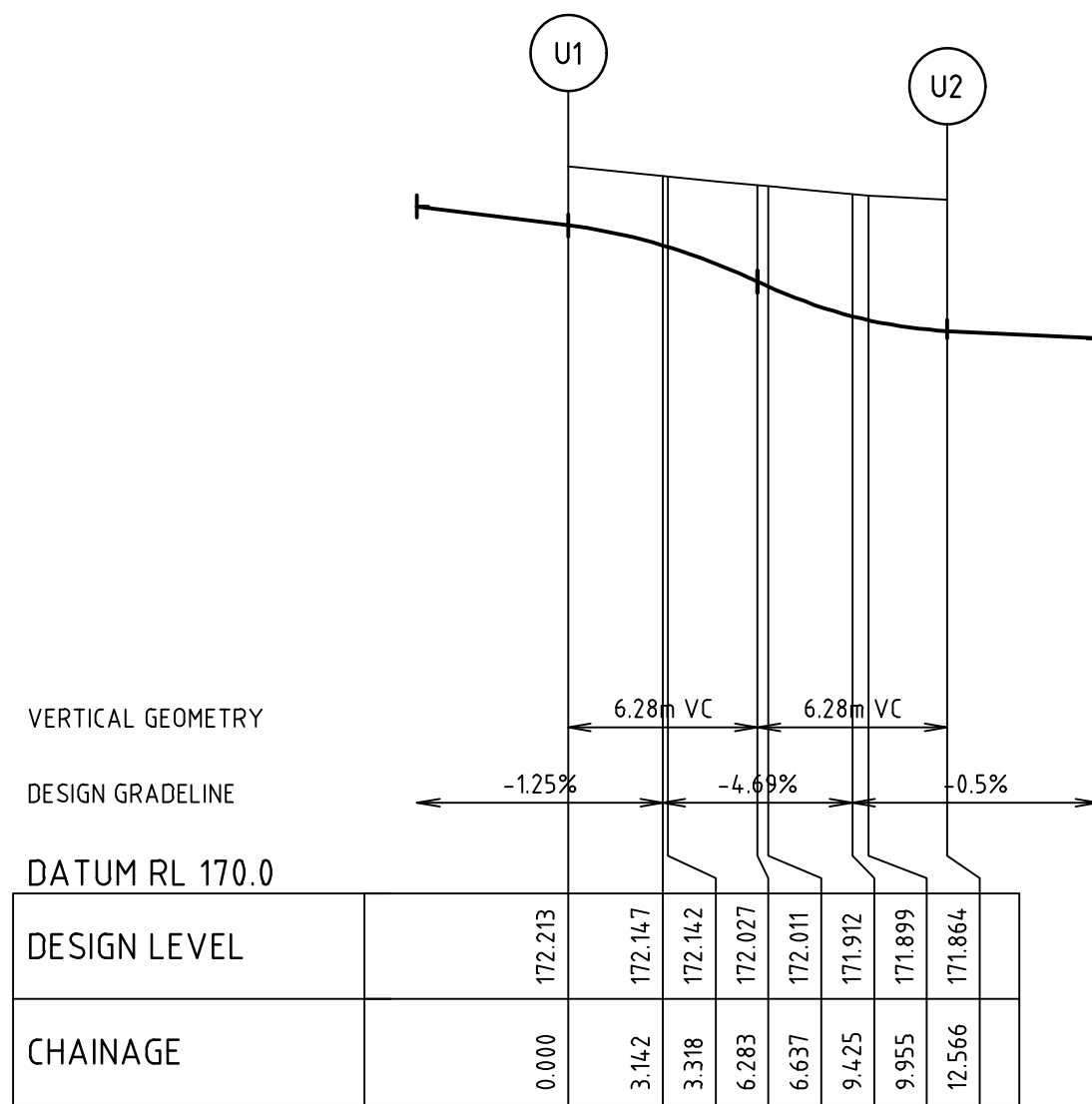
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ALIGNMENT T



ALIGNMENT S



ALIGNMENT U

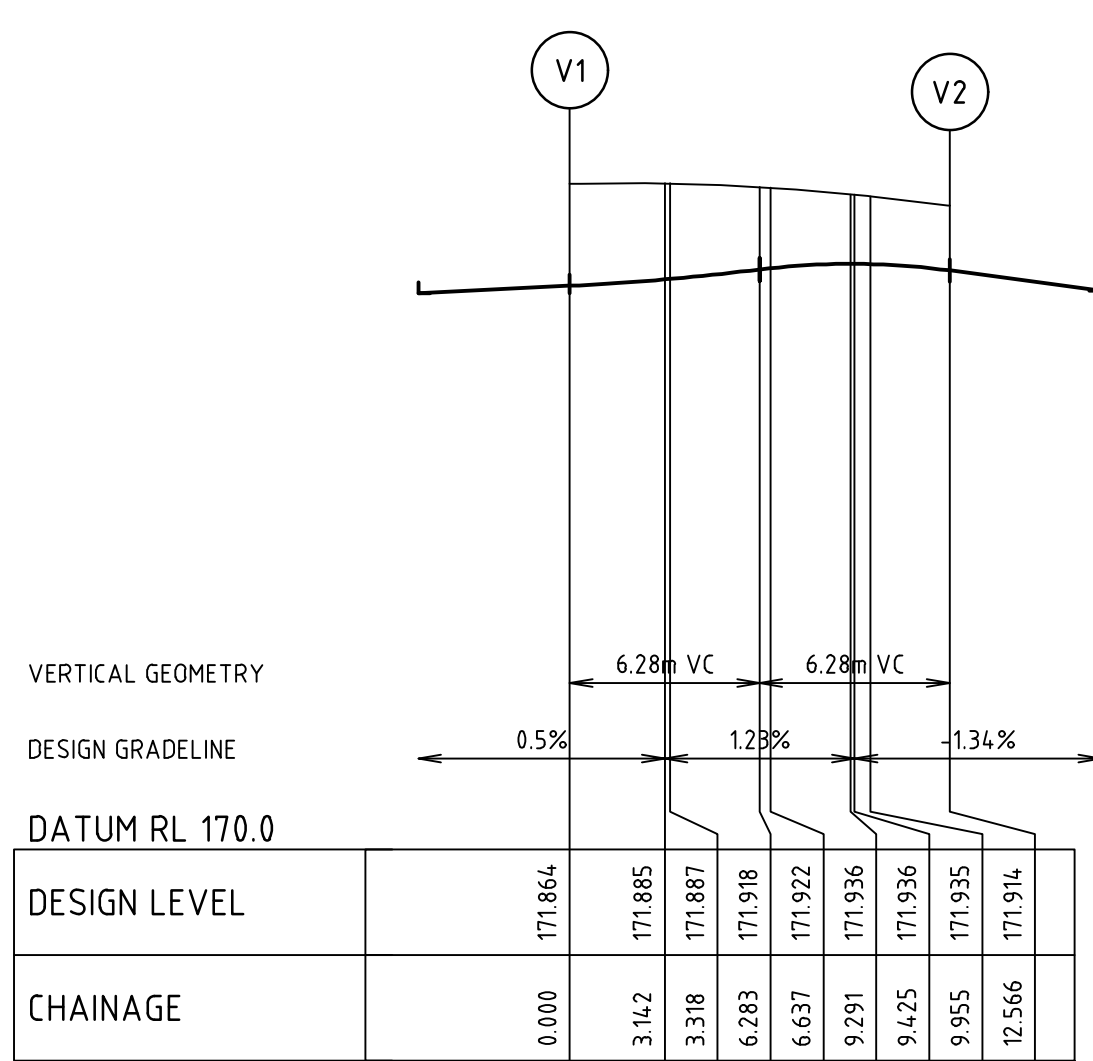
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1/2	264211.811	5939908.827	172.027
3/4	264213.660	5939911.029	171.919
U2	264214.673	5939914.240	171.864

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
U1-U2	8.000	12.566	11.314	2.343	1.826

ALIGNMENT T

POINT NO	EASTING	NORTHING	RL
T1	264146.772	5939920.619	172.598
1/4	264147.169	5939917.276	172.619
1/2	264148.575	5939914.768	172.644
3/4	264150.778	5939912.919	172.663
T2	264153.988	5939911.906	172.660

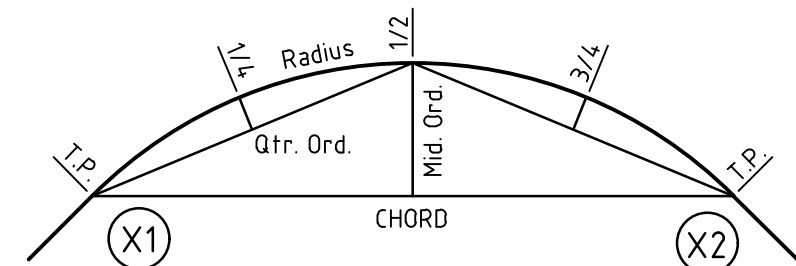
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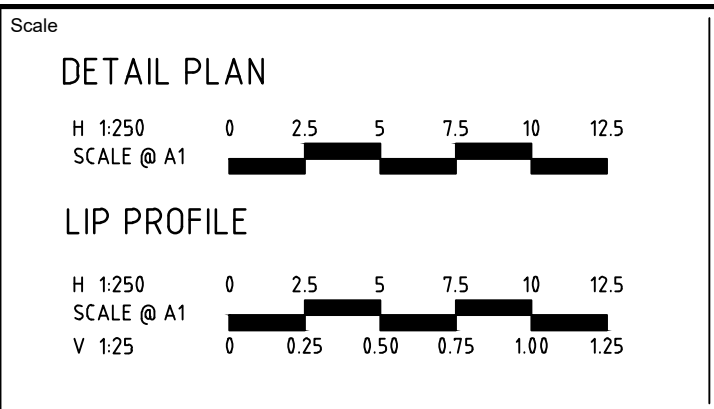
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1/2	264224.242	5939907.659	171.918
3/4	264226.444	5939905.811	171.936
V2	264229.655	5939904.797	171.914

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
V1-V2	8.000	12.566	11.314	2.343	1.826



KERB RETURN SETOUT DETAIL

Rev	Amendments	Approved	Date
A	PRELIMINARY ISSUE	B.I	MAY 2022



ISO 9001
ISO 45001
ISO 14001

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Designed D.SHEEHAN	Checked
Authorised H.OAKLEY-WARREN	Date MAY 2022

**PROVENANCE ESTATE
STAGE 8
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 1
CITY OF GREATER BENDIGO
HUNTLY PROPERTY HOLDING PTY LTD**

DRAFT

Drp No
309101CR500

Rev
A



Scale

H 1500
SCALE @ A1
V 150

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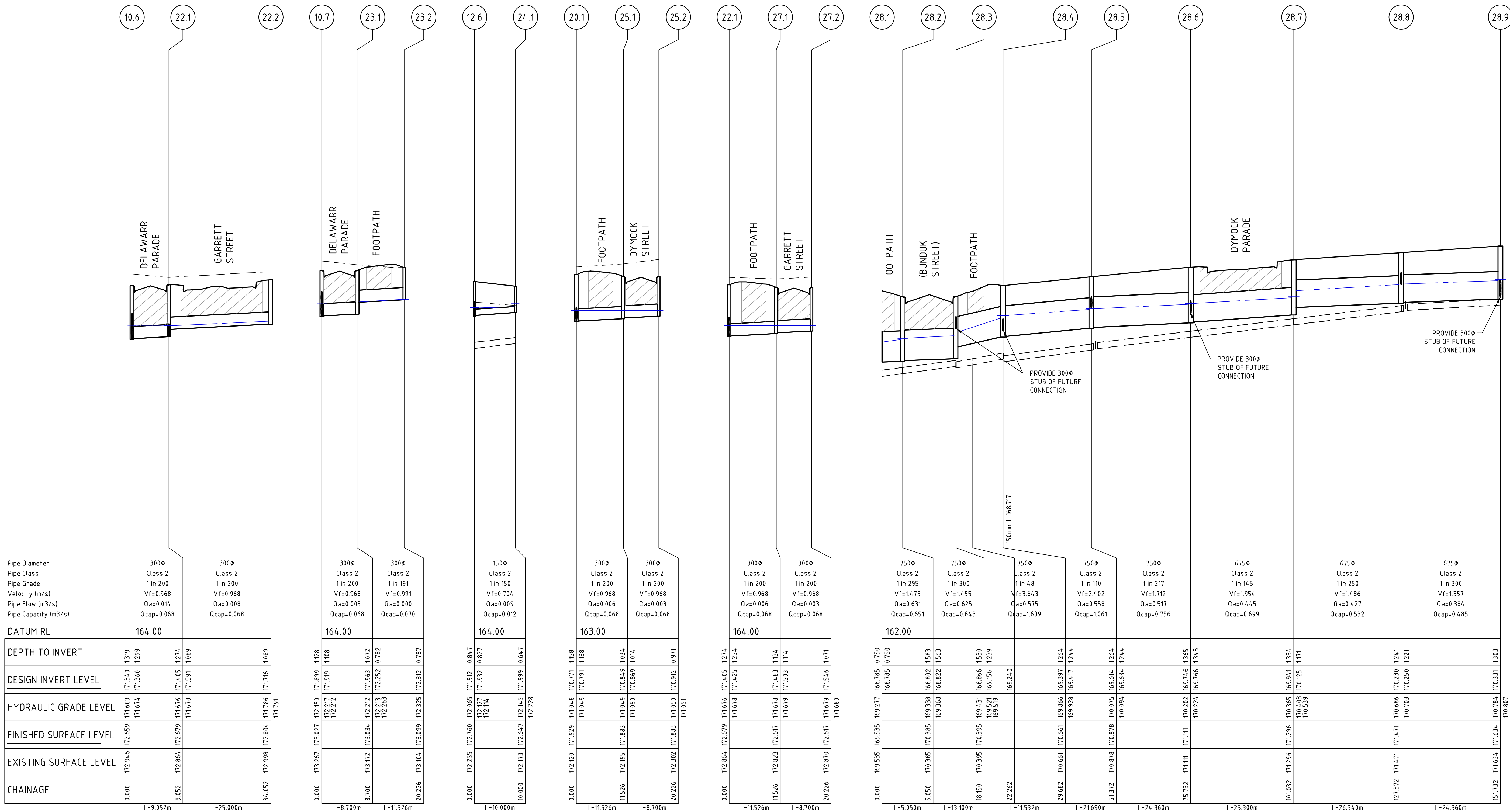
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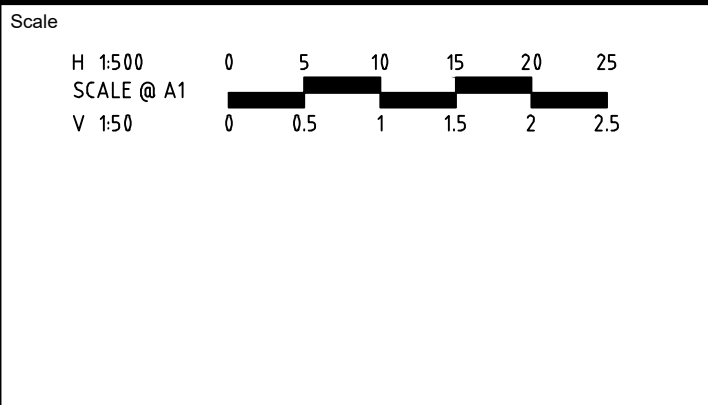
PROVENANCE ESTATE
STAGE 8
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 1
CITY OF GREATER BENDIGO
HUNTLY PROPERTY HOLDING PTY LTD

DRAFT Drg No 309101CR600 Rev A

file name: 309101CR601.dwg, layout name: CR601, plotted by: Harry Oakley-Warren, plot date: 06/06/2022 11:27 AM, sheet 14 of 22, sheets



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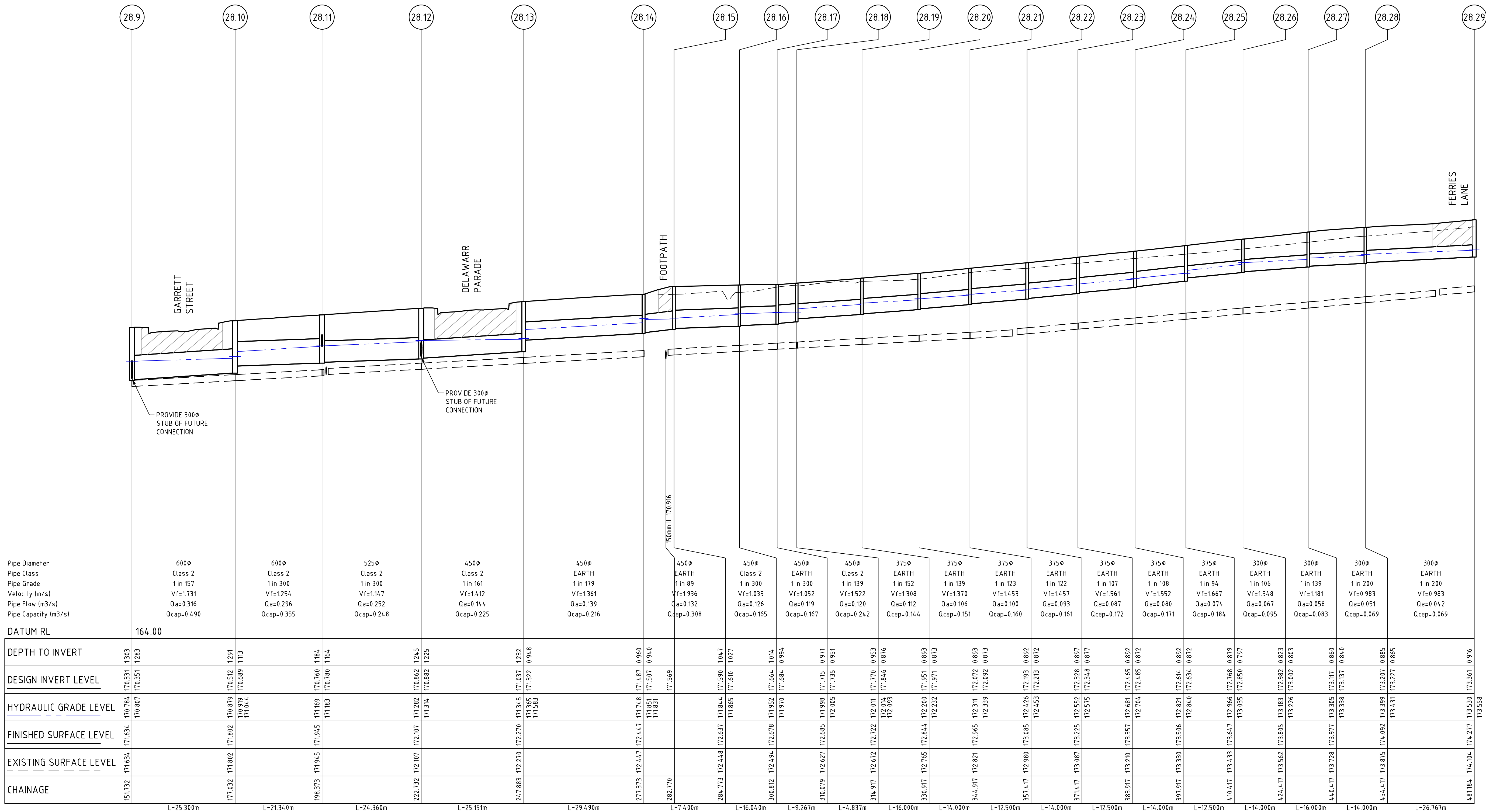
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STAGE 8
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 2
CITY OF GREATER BENDIGO
HUNTLY PROPERTY HOLDING PTY LTD**

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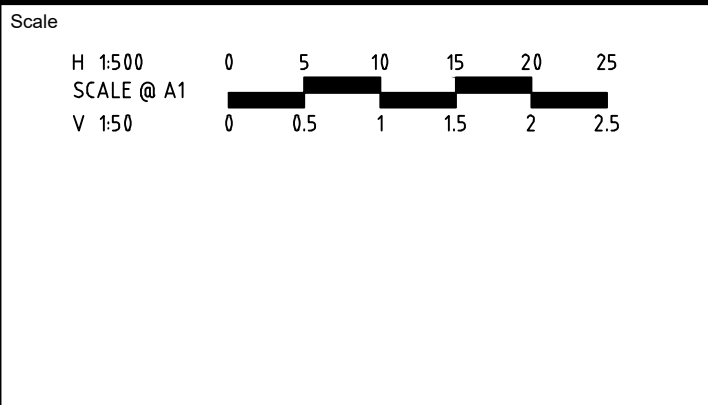
Drp No
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Rev
A

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Rev	A	PRELIMINARY ISSUE	B.I	MAY 2022
Rev	Amendments	Approved	Date	



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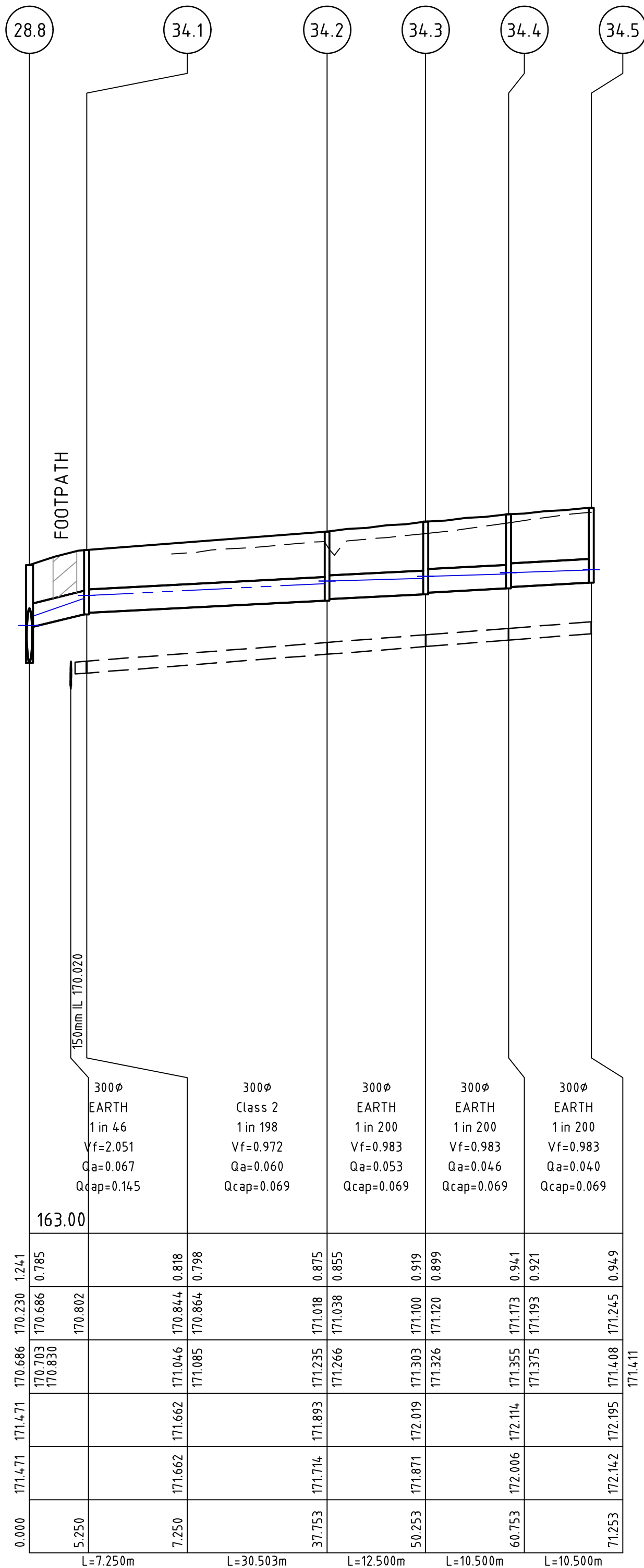
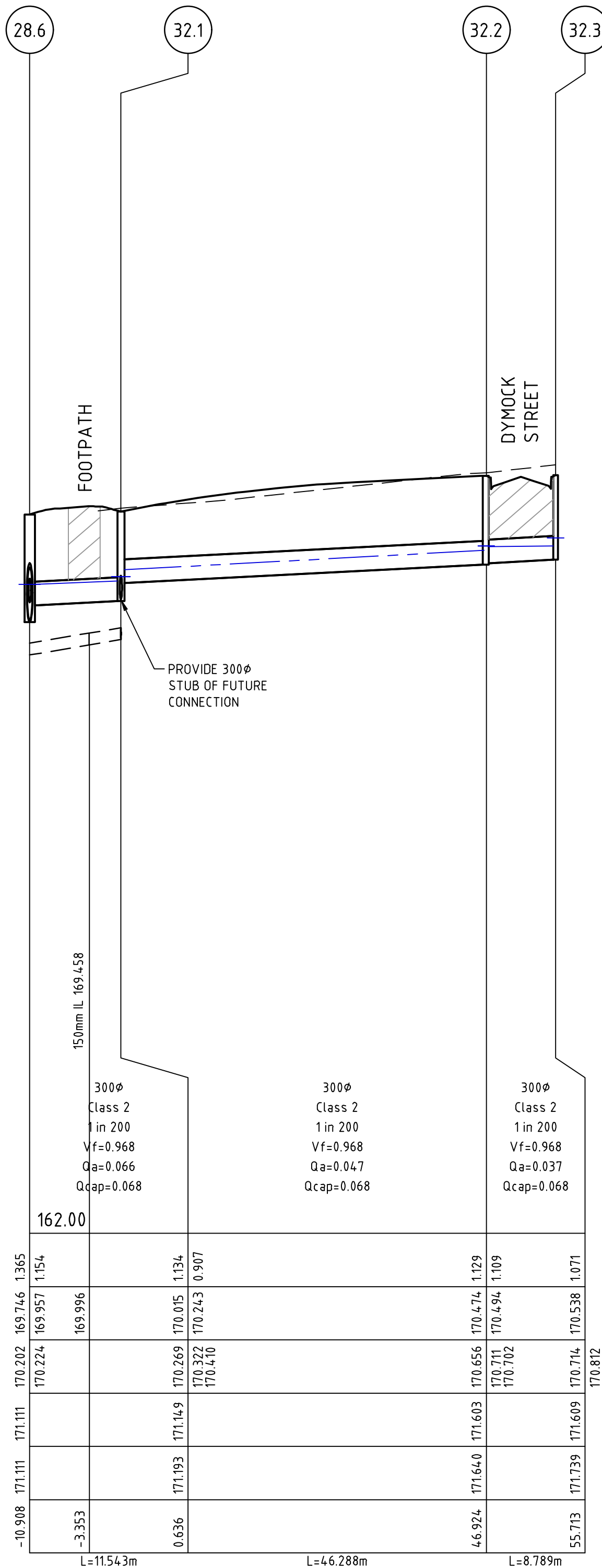
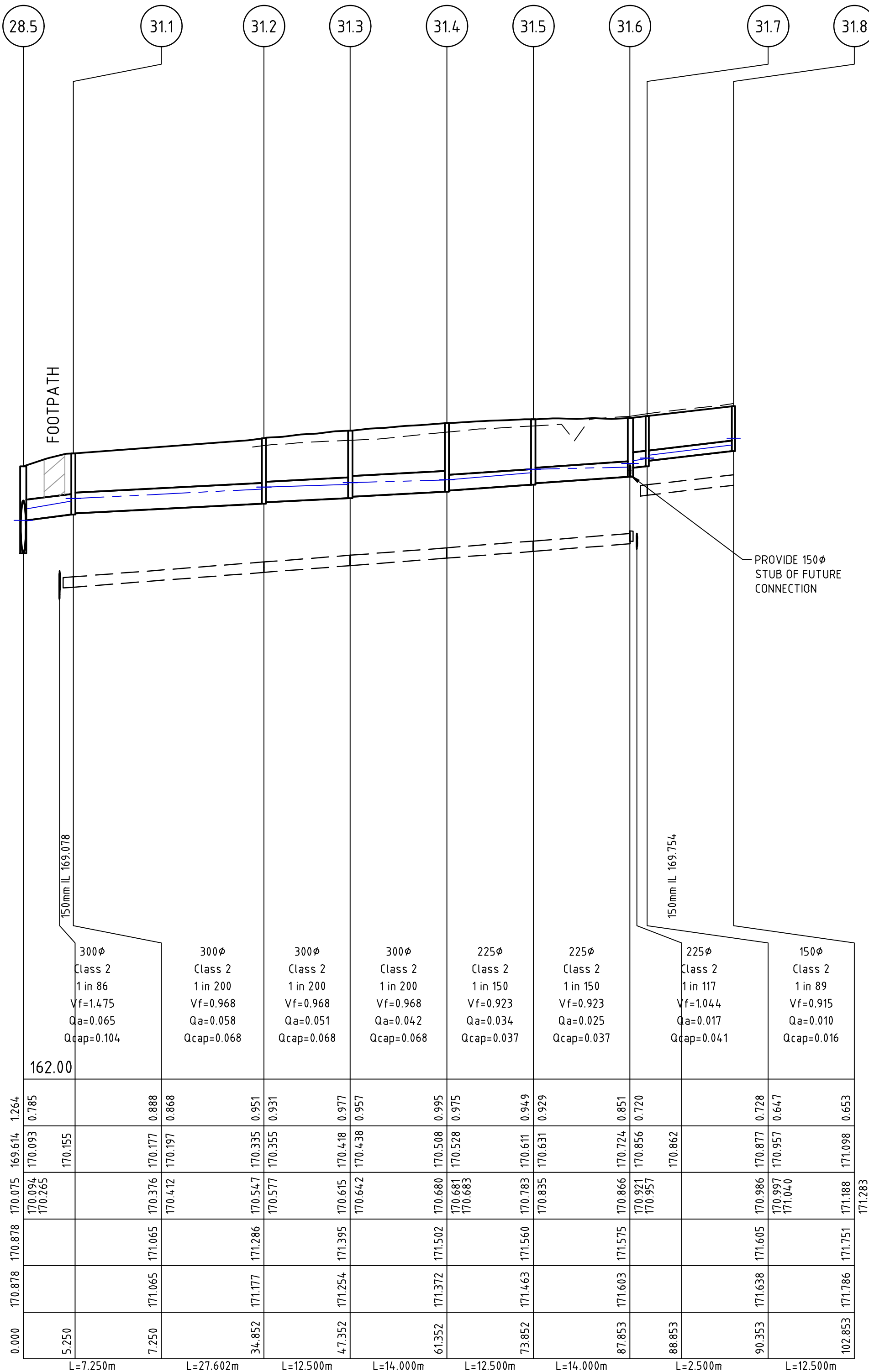
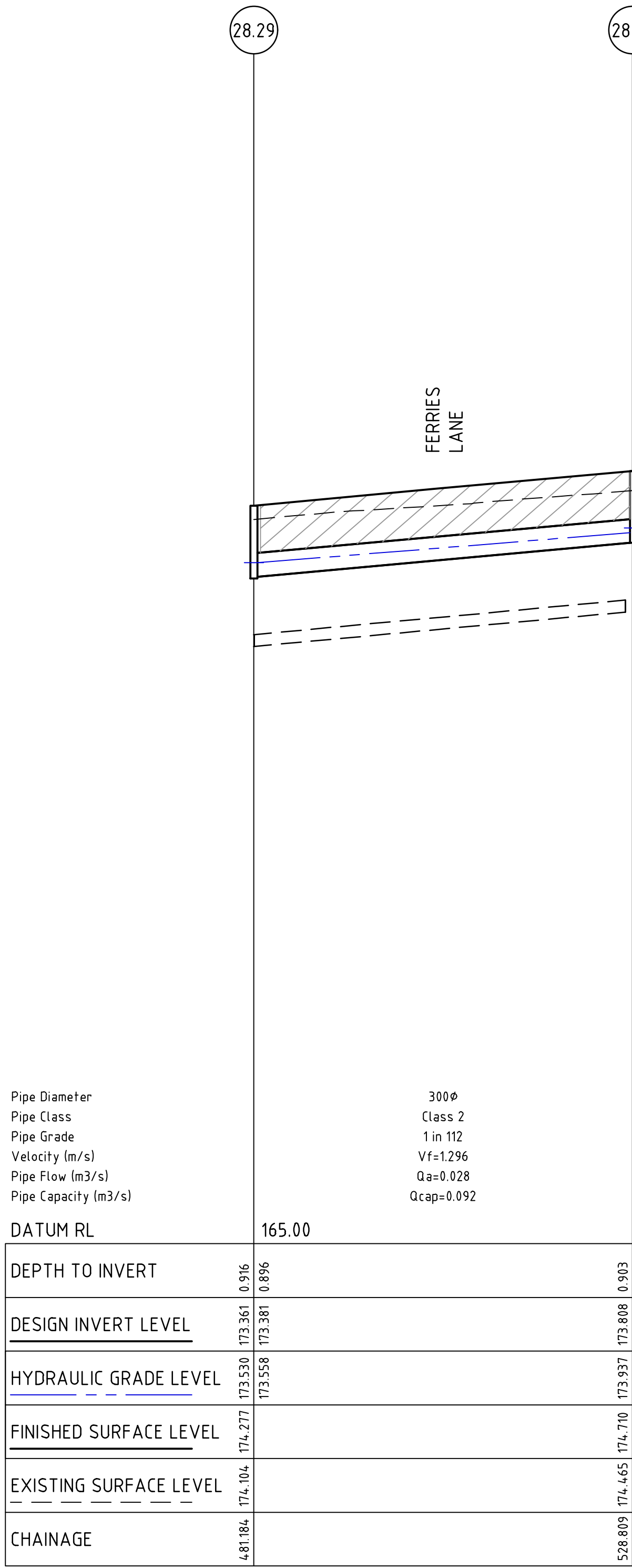
Designed D.SHEEHAN	Checked
Authorised H.OAKLEY-WARREN	Date MAY 2022

**PROVENANCE ESTATE
STAGE 8
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 3
CITY OF GREATER BENDIGO
HUNTLY PROPERTY HOLDING PTY LTD**

DRAFT

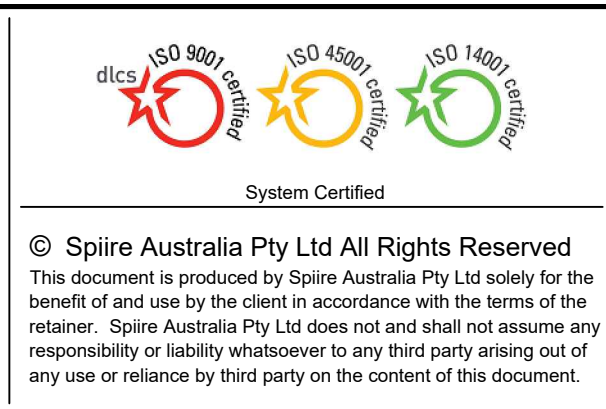
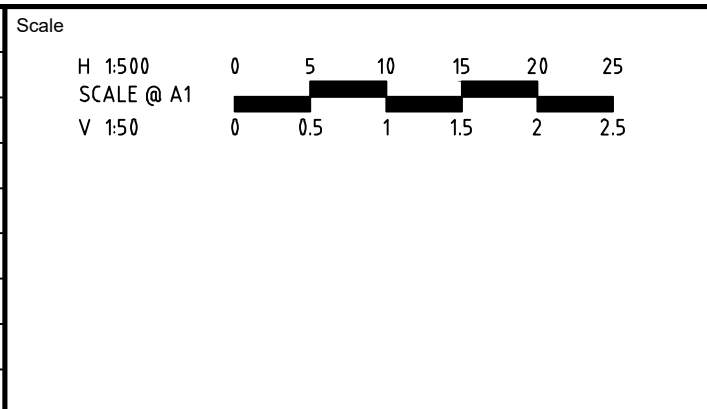
Drw No
309101CR602

Rev
A



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Rev	Description	By	Date
A	PRELIMINARY ISSUE	B.I	MAY 2022
Rev	Amendments	Approved	Date



Designed D.SHEEHAN	Checked
Authorised H.OAKLEY-WARREN	Date MAY 2022

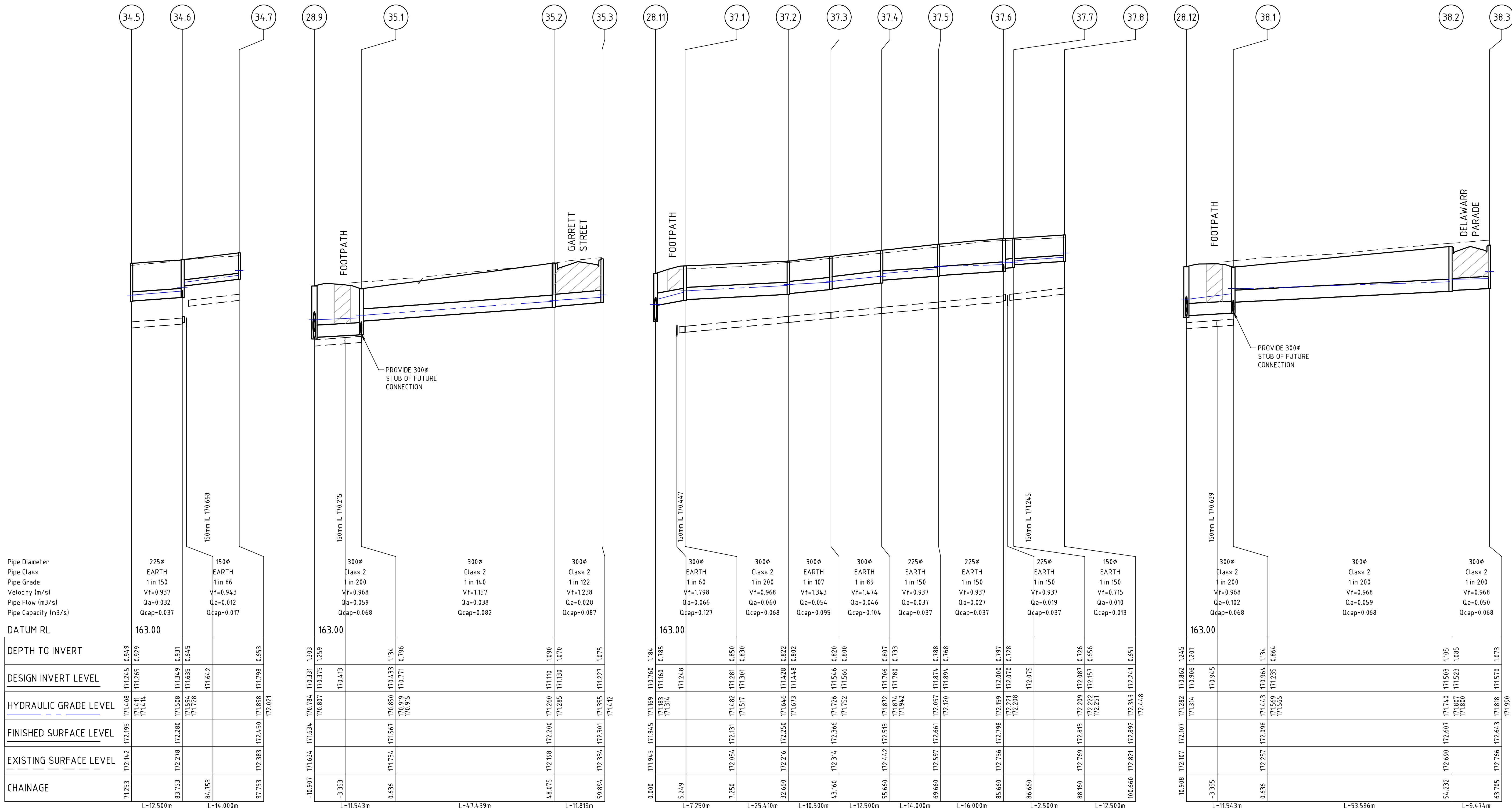
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STAGE 8
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 4
CITY OF GREATER BENDIGO
HUNTLY PROPERTY HOLDING PTY LTD**

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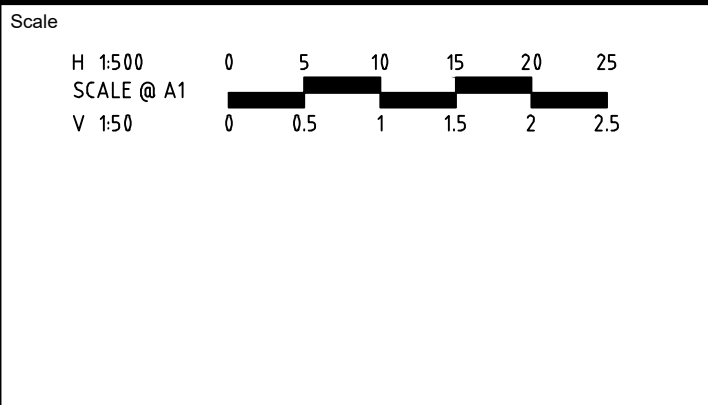
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Rev
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**PROVENANCE ESTATE
STAGE 8
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 5
CITY OF GREATER BENDIGO
HUNTLY PROPERTY HOLDING PTY LTD**

DRAFT

Drw No
309101CR604

Rev
A

file name: 309101CR605.dwg, layout name: CR605, plotted by: Harry Oakley-Warren
file location: G:\30\309101\309101.dwg, plot date: 06/06/2022 11:27 AM, Sheet 18 of 22 Sheets



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

150 Ø
EARTH
1 in 150
Vf=0.715
Qa=0.010
Qcap=0.013

DATUM RL	163.00
DEPTH TO INVERT	0.000 171.508 171.349 0.931 171.594 171.369 0.911 171.580 171.137
DESIGN INVERT LEVEL	
HYDRAULIC GRADE LEVEL	
FINISHED SURFACE LEVEL	
EXISTING SURFACE LEVEL	
CHAINAGE	0.000 14.000 172.278 172.280 172.109 171.642 171.462 0.647

L=14,000m

150 Ø
EARTH
1 in 150
Vf=0.715
Qa=0.009
Qcap=0.013

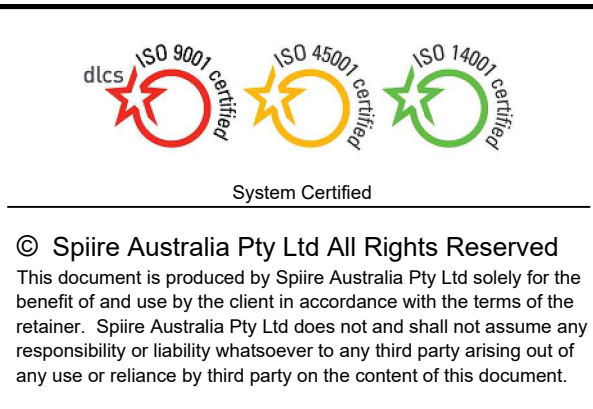
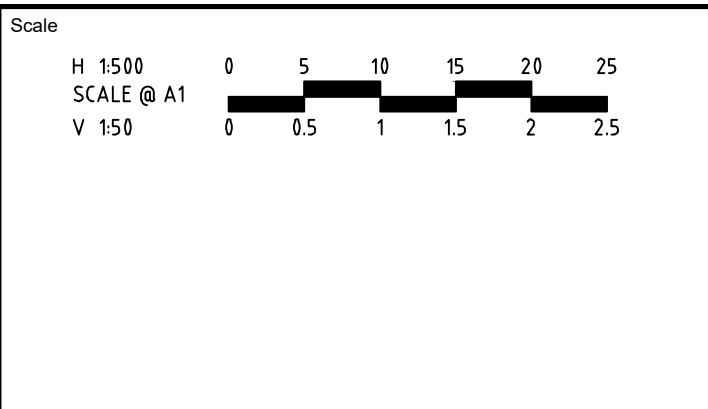
DATUM RL	164.00
DEPTH TO INVERT	0.000 172.159 172.000 0.797 172.271 172.020 0.777 172.268 172.321
DESIGN INVERT LEVEL	
HYDRAULIC GRADE LEVEL	
FINISHED SURFACE LEVEL	
EXISTING SURFACE LEVEL	
CHAINAGE	0.000 10.000 172.756 172.798 172.136 172.239 172.087 0.649

L=10,000m

DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
1.3	JUNCTION PIT	1200	1500	900	169.810	1200	169.412	171.431	2.019	CONNECT TO EXISTING PIT
				675	170.273					
				600	169.432					
10.1	SIDE ENTRY PIT	900	1200	525	169.470	600	169.450	171.295	1.845	AS PER IDM SD 430
10.2	SIDE ENTRY PIT	900	1200	525	169.617	525	169.597	171.084	1.486	AS PER IDM SD 430
10.3	JUNCTION PIT	900	1200	525	169.659	525	169.639	171.103	1.464	AS PER IDM SD 420
10.4	SIDE ENTRY PIT	900	1200	450	170.102	525	169.686	171.040	1.354	AS PER IDM SD 430
				300	169.706					
10.5	SIDE ENTRY PIT	600	900	450	170.892	450	170.698	171.836	1.137	AS PER IDM SD 430
				300	170.718					
10.6	SIDE ENTRY PIT	900	600	375	171.605	450	171.340	172.659	1.319	AS PER IDM SD 430
				300	171.360					
10.7	SIDE ENTRY PIT	600	900	300	172.226	375	171.899	173.027	1.128	AS PER IDM SD 430
				300	171.919					
10.8	SIDE ENTRY PIT	900	600	300	172.360	300	172.340	173.374	1.034	AS PER IDM SD 430
10.9	SIDE ENTRY PIT	900	600			300	172.403	173.374	0.971	AS PER IDM SD 430
20.1	SIDE ENTRY PIT	600	900	300	170.836	300	170.771	171.929	1.158	AS PER IDM SD 430
				300	170.791					
20.2	SIDE ENTRY PIT	600	900			300	171.139	172.243	1.104	AS PER IDM SD 430
22.1	SIDE ENTRY PIT	600	900	300	171.591	300	171.405	172.679	1.274	AS PER IDM SD 430
				300	171.425					
22.2	SIDE ENTRY PIT	600	900			300	171.716	172.804	1.089	AS PER IDM SD 430
23.1	SIDE ENTRY PIT	600	900	300	172.252		171.963	173.034	1.072	AS PER IDM SD 430
23.2	SIDE ENTRY PIT	900	600			300	172.312	173.099	0.787	AS PER IDM SD 430
25.1	SIDE ENTRY PIT	900	600	300	170.869	300	170.849	171.883	1.034	AS PER IDM SD 430
25.2	SIDE ENTRY PIT	900	600			300	170.912	171.883	0.971	AS PER IDM SD 430
27.1	SIDE ENTRY PIT	900	600	300	171.503	300	171.483	172.617	1.134	AS PER IDM SD 430
27.2	SIDE ENTRY PIT	900	600			300	171.546	172.617	1.071	AS PER IDM SD 430
28.1	ENDPIPE	0	0	750	168.785			169.535	0.750	PROVIDE TEMPORARY ENDWALL TO SUIT 750Ø RCP
28.2	SIDE ENTRY PIT	1200	900	750	168.822	750	168.802	170.385	1.583	AS PER IDM SD 430
28.3	SIDE ENTRY PIT	1200	900	750	169.156	750	168.866	170.395	1.530	AS PER IDM SD 430
				300	169.601					
28.4	GRATED JUNCTION PIT	900	1200	750	169.417	750	169.397	170.661	1.264	AS PER IDM SD 420 WITH GRATE
				300	169.548					
28.5	JUNCTION PIT	900	1200	750	169.634	750	169.614	170.878	1.264	AS PER IDM SD 420
				300	170.093					
28.6	GRATED JUNCTION PIT	900	1200	675	169.766	750	169.746	171.111	1.365	AS PER IDM SD 420 WITH GRATE
				300	169.957					
				300	169.999					
28.7	SIDE ENTRY PIT	900	1200	675	170.125	675	169.941	171.296	1.354	AS PER IDM SD 430
28.8	JUNCTION PIT	900	1200	675	170.250	675	170.230	171.471	1.241	AS PER IDM SD 420
				300	170.686					
28.9	GRATED JUNCTION PIT	900	1200	600	170.351	675	170.331	171.634	1.303	AS PER IDM SD 420 WITH GRATE
				300	170.375					
				300	170.521					
28.10	SIDE ENTRY PIT	900	1200	600	170.689	600	170.512	171.802	1.291	AS PER IDM SD 430
28.11	JUNCTION PIT	900	1200	525	170.780	600	170.760	171.945	1.184	AS PER IDM SD 420
				300	171.160					
28.12	SIDE ENTRY PIT	900	1200	450	170.882	525	170.862	172.107	1.245	AS PER IDM SD 430
				300	170.906					
				300	170.994					
28.13	SIDE ENTRY PIT	600	900	450	171.322	450	171.037	172.270	1.232	AS PER IDM SD 430
28.14	GRATED JUNCTION PIT	900	600	450	171.507	450	171.487	172.447	0.960	AS PER CoGB SD 27 WITH GRATE
28.15	GRATED JUNCTION PIT	900	600	450	171.610	450	171.590	172.637	1.047	AS PER CoGB SD 27 WITH GRATE
28.16	GRATED JUNCTION PIT	900	600	450	171.684	450	171.664	172.678	1.014	AS PER CoGB SD 27 WITH GRATE
28.17	JUNCTION PIT	900	600	450	171.735	450	171.715	172.685	0.971	AS PER CoGB SD 27
28.18	GRATED JUNCTION PIT	900	600	375	171.846	450	171.770	172.722	0.953	AS PER CoGB SD 27 WITH GRATE
28.19	GRATED JUNCTION PIT	900	600	375	171.971	375	171.951	172.844	0.893	AS PER CoGB SD 27 WITH GRATE
28.20	GRATED JUNCTION PIT	900	600	375	172.092	375	172.072	172.965	0.893	AS PER CoGB SD 27 WITH GRATE
28.21	GRATED JUNCTION PIT	900	600	375	172.213	375	172.193	173.085	0.892	AS PER CoGB SD 27 WITH GRATE
28.22	GRATED JUNCTION PIT	900	600	375	172.348	375	172.328	173.225	0.897	AS PER CoGB SD 27 WITH GRATE
28.23	GRATED JUNCTION PIT	900	600	375	172.485	375	172.465	173.357	0.892	AS PER CoGB SD 27 WITH GRATE
28.24	GRATED JUNCTION PIT	900	600	375	172.634	375	172.614	173.506	0.892	AS PER CoGB SD 27 WITH GRATE
28.25	GRATED JUNCTION PIT	900	600	300	172.850	375	172.768	173.647	0.879	AS PER CoGB SD 27 WITH GRATE
28.26	GRATED JUNCTION PIT	900	600	300	173.002	300	172.982	173.805	0.823	AS PER CoGB SD 27 WITH GRATE
28.27	GRATED JUNCTION PIT	900	600	300	173.137	300	173.117	173.977	0.860	AS PER CoGB SD 27 WITH GRATE
28.28	GRATED JUNCTION PIT	900	600	300	173.227	300	173.207	174.092	0.885	AS PER CoGB SD 27 WITH GRATE
28.29	GRATED JUNCTION PIT	600	900	300	173.381	300	173.361	174.277	0.916	AS PER CoGB SD 27 WITH GRATE
28.30	GRATED JUNCTION PIT	900	600			300	173.808	174.710	0.903	AS PER CoGB SD 27 WITH GRATE

Rev	A	PRELIMINARY ISSUE	B.1	MAY 2022
Rev		Amendments	Approved	Date



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16 BRIDGE STREET BENDIGO
VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
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Designed D.SHEEHAN	Checked
Authorised H.OAKLEY-WARREN	Date MAY 2022

**PROVENANCE ESTATE
STAGE 8
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 6
CITY OF GREATER BENDIGO
HUNTLY PROPERTY HOLDING PTY LTD**

DRAFT

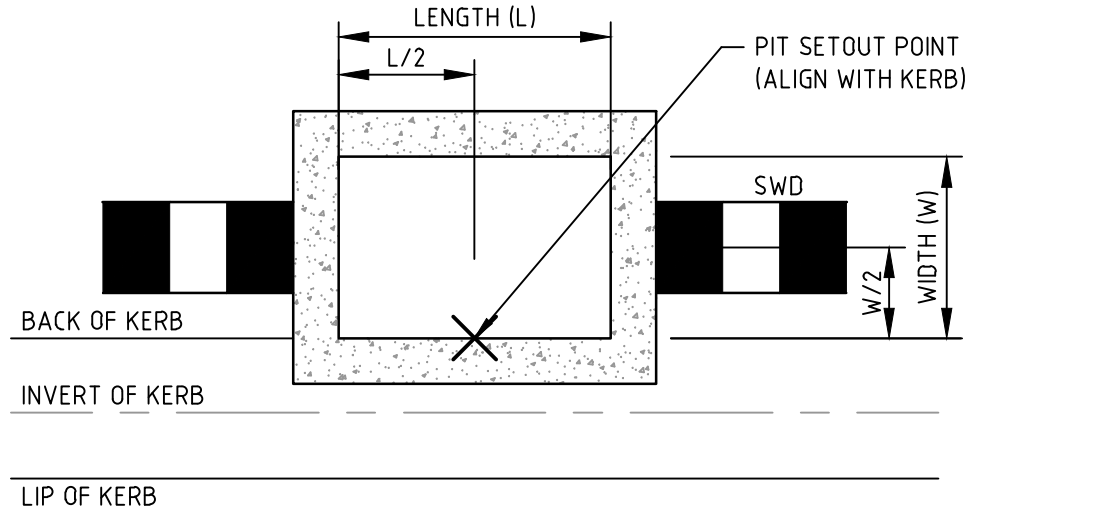
Drg No
309101CR605

Rev
A

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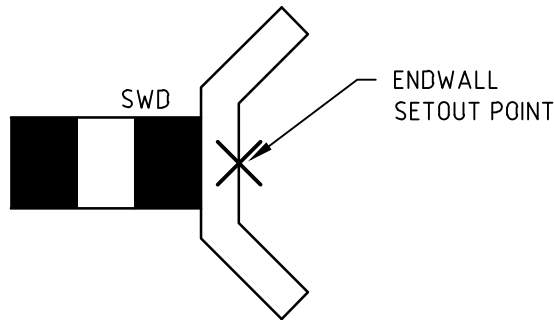
DRAINAGE NOTES

1. ALL DRAINAGE PIPES & PITS ARE TO BE AT 1m OFFSET TO PROPERTY BOUNDARIES UNLESS SHOWN OTHERWISE
2. THE CONTRACTOR MUST CONTACT SERVICING AUTHORITIES TO ARRANGE SERVICE LOCATIONS PRIOR TO COMMENCEMENT OF EXCAVATION FOR THIS PROJECT
3. PITS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE MUNICIPALITY. STEEL GRATES ARE TO BE HOT DIP GALVANISED AFTER MANUFACTURE. THE TOP OF ALL GRATES MUST BE APPROXIMATELY 150mm BELOW THE SURROUNDING SURFACE LEVEL. PROPERTY DRAINAGE CONNECTIONS ARE TO BE PROVIDED AS NECESSARY.
4. ALL SIDE ENTRY PITS IN ROLLOVER KERB & CHANNEL ARE TO BE CONSTRUCTED USING AN APPROVED ROLLOVER TYPE LINTEL OR A REINFORCED ROLLOVER PROFILE PIT LID. STANDARD SQUARE PROFILE PIT LIDS WITHOUT LINTEL ARE NOT ACCEPTABLE.
5. TRENCHES WITHIN PAVEMENT OR FOOTPATH AREAS ARE TO BE BACKFILLED WITH 3% CEMENT STABILISED CLASS 1 FCR. THE TRENCH IS TO BE BACKFILLED IN 150MM LAYERS AND CONSOLIDATED.
6. ALL PIPE STUBS ARE TO CONSIST OF ONE FULL PIPE LENGTH UNLESS SHOWN OTHERWISE.
7. FINISHED LEVELS FOR SIDE ENTRY PITS MUST BE DETERMINED FROM KERB LEVELS AND SHOULD BE SLOPED TO SUIT NATURE STRIPS ETC. THE FSLs INDICATED IN THE PIT SCHEDULE ARE NOT KERB LEVELS.
8. STEP IRONS ARE NOT REQUIRED IN DRAINAGE PITS.
9. CONCRETE PIPES ARE TO BE CLASS 2 FJ RCP AND PVC PIPES ARE TO BE CLASS SN8 UNLESS OTHERWISE NOTED.
10. ALL EXCAVATIONS FOR DRAINAGE WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE VICTORIAN WORK COVER AUTHORITY.
11. REINFORCEMENT BARS SHALL COMPLY WITH AS4671, GRADE 400Y. LAPS IN REINFORCEMENT BARS SHALL BE 300 MIN. AND CLEAR COVER 50 MIN.
12. CONCRETE SHALL BE NORMAL CLASS N32 STANDARD STRENGTH GRADE OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS1379.
13. ENDWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF AS3600.
14. DIRECT CONNECTION OF PVC HOUSE DRAIN TO RCP DRAINAGE TO BE CONSTRUCTED WITH "CONCONNECT" OR APPROVED EQUIVALENT FITTING. 150mmØ PVC PIPES ARE NOT TO BE DIRECTLY CONNECTED TO CONCRETE PIPES LESS THAN 450mmØ IN DIAMETER. 100mmØ HOUSE CONNECTION PIPE TO BE USED FOR ALL LOTS IN STAGE.
15. WHERE PVC HOUSE CONNECTIONS ARE MADE DIRECTLY TO PIPES, THE HOUSE CONNECTION IS TO BE RAISED TO SURFACE LEVEL WITHIN THE PROPERTY AND CAPPED AS PER SD520.
16. COMPACTION REQUIREMENTS - ANY BACKFILL WITHIN 1m OF A COUNCIL ASSET (EG FOOTPATH OR ROAD) IS REQUIRED TO BE FCR. ALTERNATIVELY OTHER FILL MATERIAL CAN BE USED PROVIDED COMPACTION TESTS ARE CARRIED OUT TO ENSURE 95% COMPACTION IS ACHIEVED. TESTS TO BE CARRIED OUT AT A MINIMUM OF 1 PER 60m OF TRENCH.



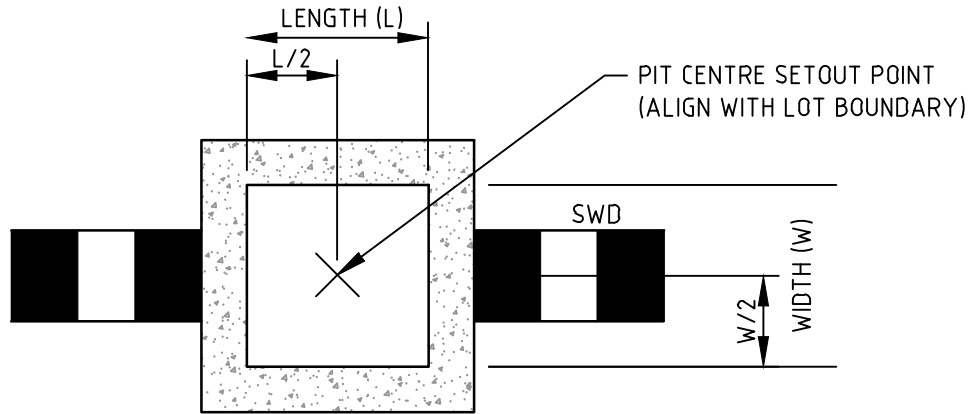
TYPICAL DRAINAGE PIT SETOUT POINT 'A'

SIDE ENTRY PIT
NOT TO SCALE



TYPICAL ENDWALL SETOUT POINT 'B'

ENDWALL
NOT TO SCALE



TYPICAL DRAINAGE PIT SETOUT POINT 'C'

JUNCTION PIT/ EASEMENT PIT
NOT TO SCALE

PIT SETOUT CO-ORDINATES

NAME	POINT	EASTING	NORTHING
10.1	A	264279.542	5939841.109
10.2	A	264283.118	5939879.178
10.3	A	264283.732	5939885.706
28.1	C	264312.988	5940008.289
28.2	A	264307.101	5940008.842
28.3	A	264295.403	5940009.941
28.4	A	264287.431	5940019.552
28.5	A	264265.833	5940021.553
28.6	A	264241.578	5940023.800
28.7	A	264216.385	5940026.133
28.8	A	264190.157	5940028.562
28.9	A	264165.901	5940030.809
28.10	A	264140.709	5940033.142
28.11	A	264119.460	5940035.111
28.12	A	264095.204	5940037.357
28.13	A	264070.154	5940039.602
28.14	A	264040.790	5940042.322
28.15	B	264040.056	5940034.506
28.16	B	264038.556	5940018.537
28.17	B	264037.689	5940009.311
28.29	B	264022.691	5939838.967
28.30	B	264018.236	5939791.551
31.1	B	264265.093	5940013.664
34.1	B	264189.417	5940020.673
37.1	B	264118.719	5940027.220

DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
31.1	GRATED JUNCTION PIT	900	600	300	170.197	300	170.177	171.065	0.888	AS PER CoGB SD 27 WITH GRATE
31.2	GRATED JUNCTION PIT	900	600	300	170.355	300	170.335	171.286	0.951	AS PER CoGB SD 27 WITH GRATE
31.3	GRATED JUNCTION PIT	900	600	300	170.438	300	170.418	171.395	0.977	AS PER CoGB SD 27 WITH GRATE
31.4	GRATED JUNCTION PIT	900	600	225	170.528	300	170.508	171.502	0.995	AS PER CoGB SD 27 WITH GRATE
31.5	GRATED JUNCTION PIT	900	600	225	170.631	225	170.611	171.560	0.949	AS PER CoGB SD 27 WITH GRATE
31.6	GRATED JUNCTION PIT	600	900	225	170.856	225	170.724	171.575	0.851	AS PER CoGB SD 27 WITH GRATE
				150	170.744					
31.7	GRATED JUNCTION PIT	450	450	150	170.957	225	170.877	171.605	0.728	AS PER CoGB SD 24
31.8	GRATED JUNCTION PIT	450	450			150	171.098	171.751	0.653	AS PER CoGB SD 24
32.1	SIDE ENTRY PIT	600	900	300	170.243	300	170.015	171.149	1.134	AS PER IDM SD 430
				300	170.035					
32.2	SIDE ENTRY PIT	900	600	300	170.494	300	170.474	171.603	1.129	AS PER IDM SD 430
32.3	SIDE ENTRY PIT	900	600			300	170.538	171.609	1.071	AS PER IDM SD 430
34.1	GRATED JUNCTION PIT	900	600	300	170.864	300	170.844	171.662	0.818	AS PER CoGB SD 27 WITH GRATE
34.2	GRATED JUNCTION PIT	900	600	300	171.038	300	171.018	171.893	0.875	AS PER CoGB SD 27 WITH GRATE
34.3	GRATED JUNCTION PIT	900	600	300	171.120	300	171.100	172.019	0.919	AS PER CoGB SD 27 WITH GRATE
34.4	GRATED JUNCTION PIT	900	600	300	171.193	300	171.173	172.114	0.941	AS PER CoGB SD 27 WITH GRATE
34.5	GRATED JUNCTION PIT	900	600	225	171.265	300	171.245	172.195	0.949	AS PER CoGB SD 27 WITH GRATE
34.6	GRATED JUNCTION PIT	600	900	150	171.635	225	171.349	172.280	0.931	AS PER CoGB SD 27 WITH GRATE
				150	171.369					
34.7	GRATED JUNCTION PIT	450	450			150	171.798	172.450	0.653	AS PER CoGB SD 24
35.1	SIDE ENTRY PIT	600	900	300	170.771	300	170.433	171.567	1.134	AS PER IDM SD 430
				300	170.453					
35.2	SIDE ENTRY PIT	900	600	300	171.130	300	171.110	172.200	1.090	AS PER IDM SD 430
35.3	SIDE ENTRY PIT	900	600			300	171.227	172.301	1.075	AS PER IDM SD 430
37.1	GRATED JUNCTION PIT	900	600	300	171.301	300	171.281	172.131	0.850	AS PER CoGB SD 27 WITH GRATE
37.2	GRATED JUNCTION PIT	900	600	300	171.448	300	171.428	172.250	0.822	AS PER CoGB SD 27 WITH GRATE
37.3	GRATED JUNCTION PIT	900	600	300	171.566	300	171.546	172.366	0.820	AS PER CoGB SD 27 WITH GRATE
37.4	GRATED JUNCTION PIT	900	600	225	171.780	300	171.706	172.513	0.807	AS PER CoGB SD 27 WITH GRATE
37.5	GRATED JUNCTION PIT	900	600	225	171.894	225	171.874	172.661	0.788	AS PER CoGB SD 27 WITH GRATE
37.6	GRATED JUNCTION PIT	600	900	225	172.070	225	172.000	172.798	0.797	AS PER CoGB SD 27 WITH GRATE
				150	172.020					
37.7	GRATED JUNCTION PIT	450	450	150	172.157	225	172.087	172.813	0.726	AS PER CoGB SD 24
37.8	GRATED JUNCTION PIT	450	450			150	172.241	172.892	0.651	AS PER CoGB SD 24
38.1	SIDE ENTRY PIT	600	900	300	171.235	300	170.964	172.098	1.134	AS PER IDM SD 430
				300	170.984					
38.2	SIDE ENTRY PIT	900	600	300	171.523	300	171.503	172.607	1.105	AS PER IDM SD 430
38.3	SIDE ENTRY PIT	900	600			300	171.570	172.643	1.073	AS PER IDM SD 430
42.1	GRATED JUNCTION PIT	450	450			150	171.462	172.109	0.647	AS PER CoGB SD 24
44.1	DEPRESSED GRATED PIT	450	450			150	172.087	172.736	0.649	AS PER CoGB SD 24

Scale

AS SHOWN



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spiire.com.au ABN 55 050 029 635

Designed
D.SHEEHAN

Checked

Authorised
H.OAKLEY-WARREN

Date
MAY 2022

PROVENANCE ESTATE
STAGE 8
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 7
CITY OF GREATER BENDIGO
HUNTLY PROPERTY HOLDING PTY LTD

DRAFT

Drg No

309101CR606

Rev

A

A PRELIMINARY ISSUE

B.I MAY 2022

Rev Amendments

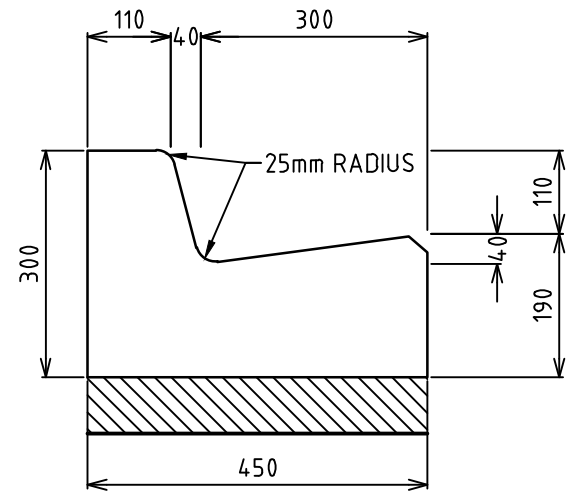
Approved Date

DESIGN PAVEMENT PROFILE

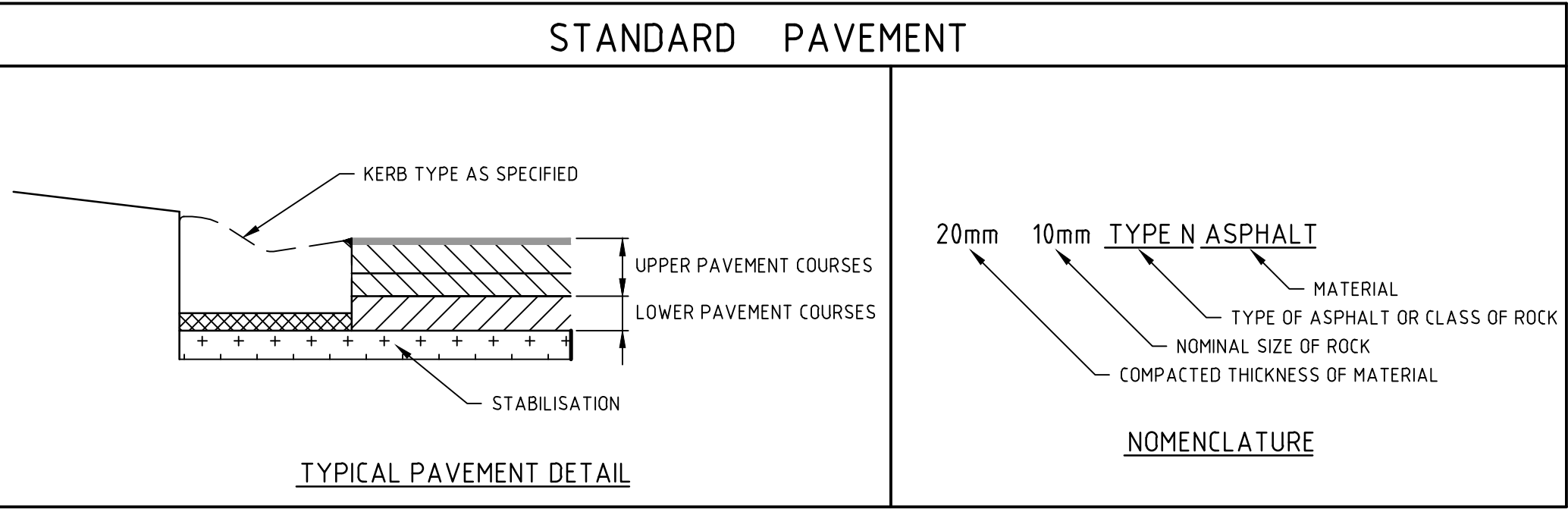
PAVEMENT LAYER	DESCRIPTION	TYPE A*
ASPHALT SEAL	SIZE 10 TYPE N WITH PRIME	30
BASE COURSE	20mm NOMINAL SIZE CLASS 1 OR 2 FCR, COMPACTED TO AT LEAST 98% MODIFIED MAXIMUM DRY DENSITY	110
	UPPER PAVEMENT TOTAL	140
SUBBASE	20mm OR 40mm NOMINAL SIZE CLASS 3 OR 4 FCR, MIN CBR 30 COMPACTED TO AT LEAST 98% MODIFIED MAXIMUM DRY DENSITY	120
STABILISED SUBGRADE	STABILISED WITH 3% LIME AND 1% CEMENT COMPACTED TO A MINIMUM DENSITY RATIO OF 98% STANDARD	200
TOTAL PAVEMENT DEPTH		260

* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES
PAVEMENT B AS PER IDM SD250 INDUSTRIAL DRIVEWAY

ROAD NAME	TYPE
DELAWARE PARADE	A
COFFEY STREET	A
GARRETT STREET	A
DYMOCK STREET	A



B2
STANDARD KERB PROFILES
NOT TO SCALE



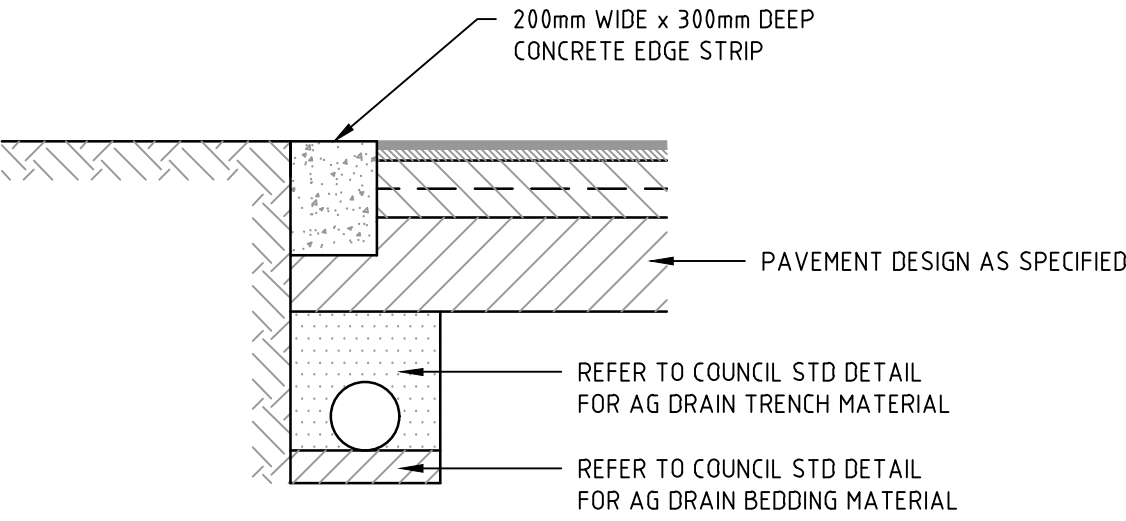
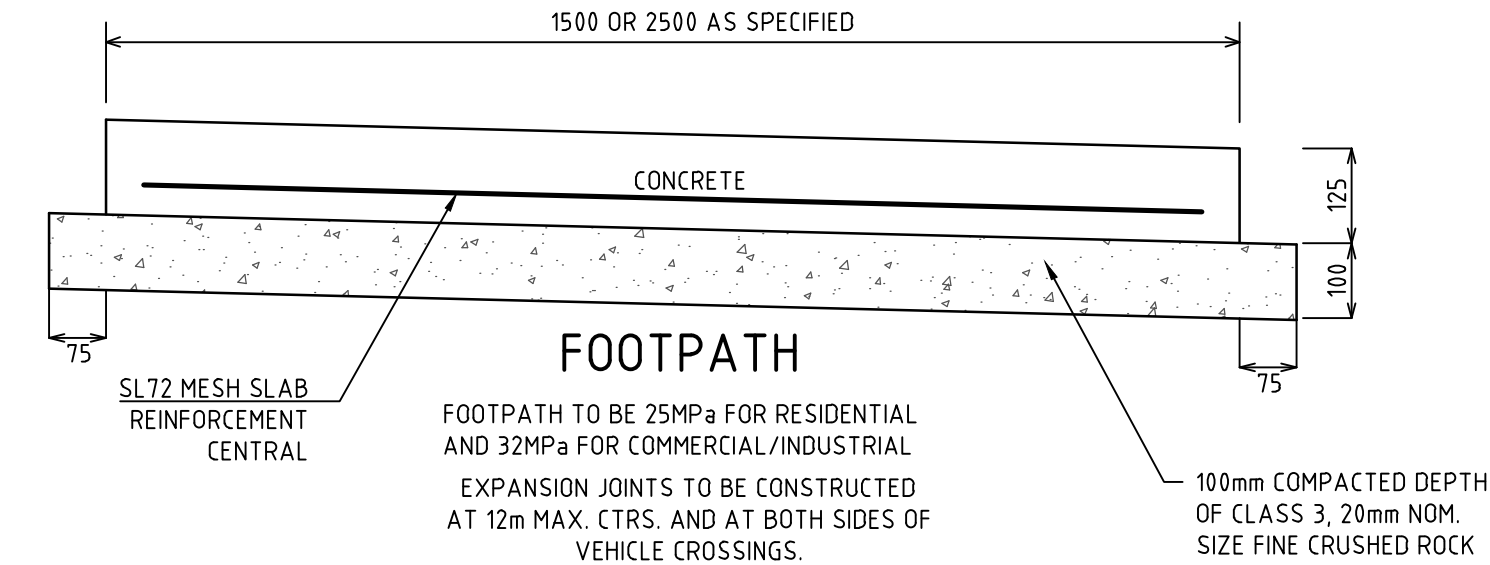
PAVEMENT DETAILS

THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY GTS WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF GTS.

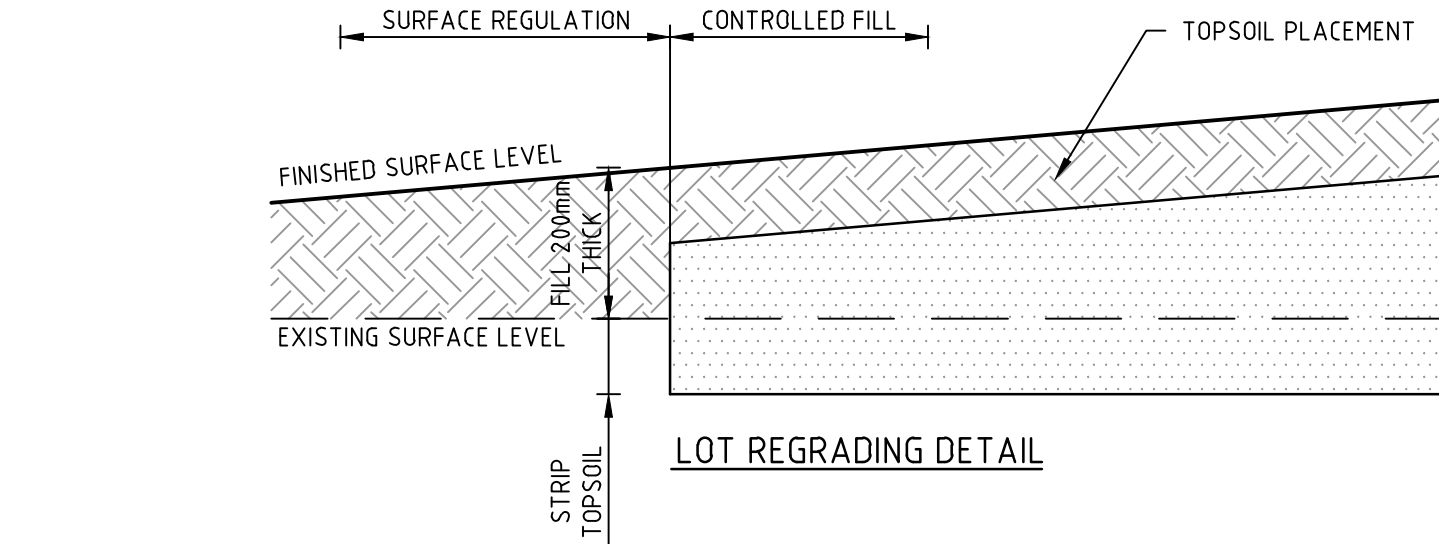
THE DESIGN HAS BEEN EXTRACTED FROM THE REPORT 18C 0664-1 "GEOTECHNICAL INVESTIGATION FOR HUNTLY EAST SUBDIVISION, HUNTLY" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

A COPY OF THE DOCUMENT WILL BE PROVIDED ON REQUEST.

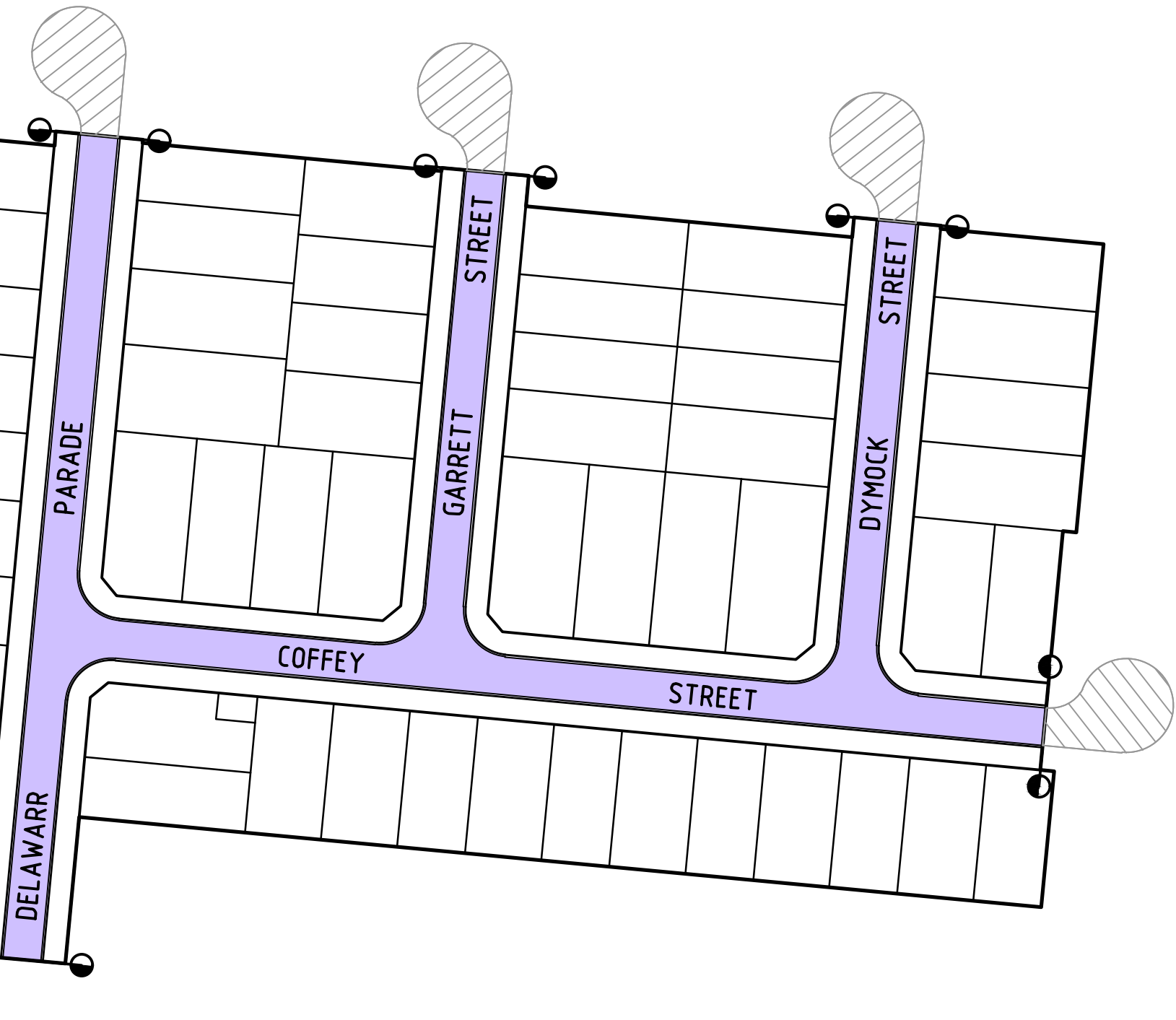
SPIIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS.
ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO GTS AND COPIED TO SPIIRE.



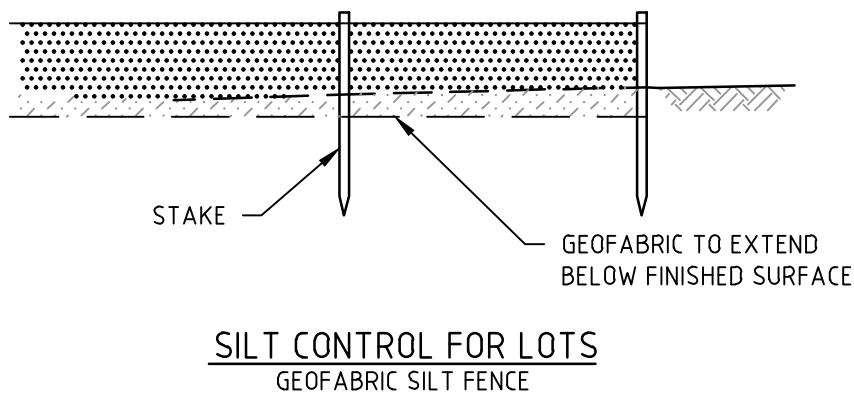
LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL



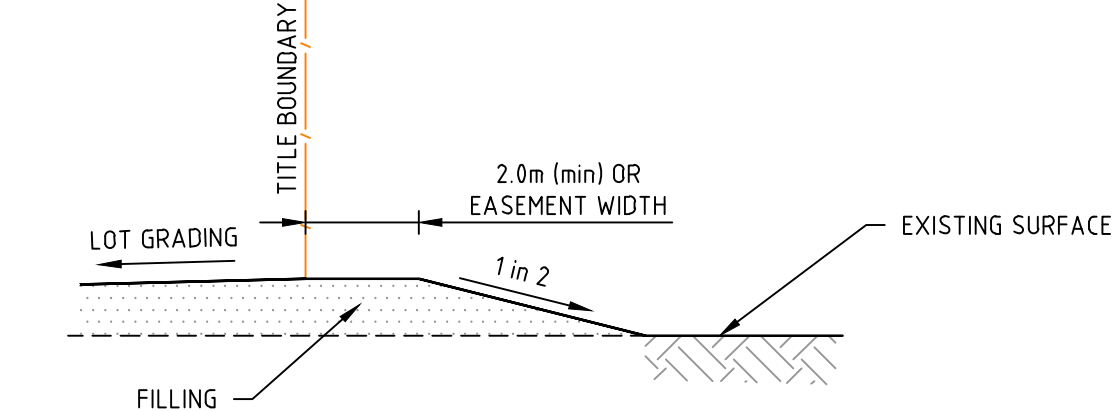
LOT REGRADING DETAIL



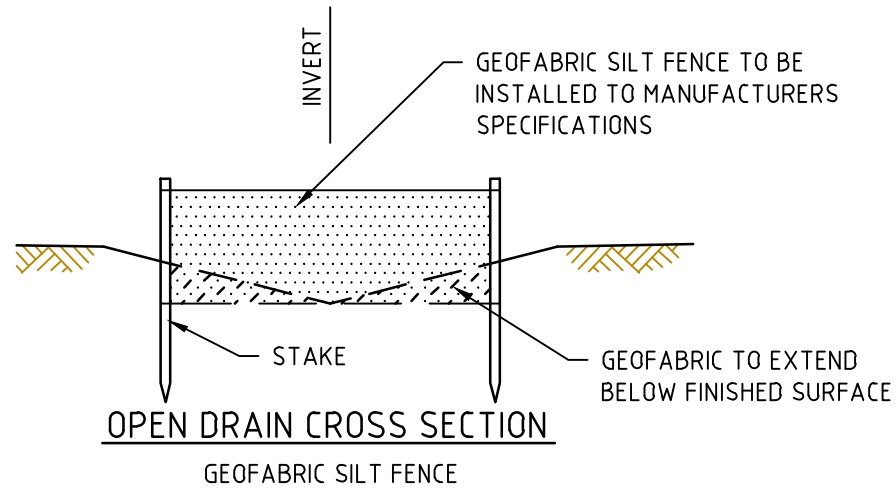
PAVEMENT PLAN
H 1:1000
SCALE @ A1



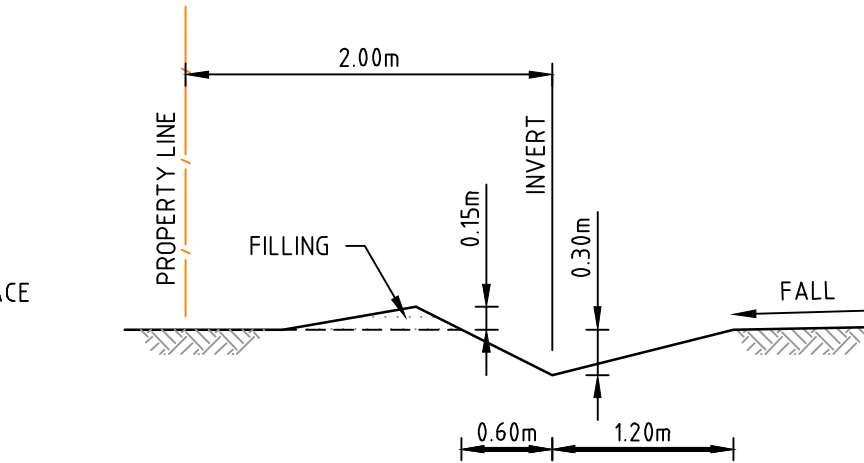
SILT CONTROL FOR LOTS
GEOFABRIC SILT FENCE



LOT FILLING AT STAGE BOUNDARY



OPEN DRAIN CROSS SECTION
GEOFABRIC SILT FENCE



TYPICAL CATCH DRAIN SECTION

GENERAL NOTES:

- NATURE STRIPS ARE TO BE TOPSOILED WITH MATERIAL STOCKPILED FROM STRIPPING TO A DEPTH OF 100mm. IMPORTED TOPSOIL AND/OR SEEDING MAY BE REQUIRED TO PROVIDE GOOD GRASS COVER
- LOCATION OF ALL SERVICE CONDUITS IS TO BE MARKED ON THE FACE OF BOTH KERBS WITH A UNIFORM 50mm DIAMETER MARK, 5mm DEEP. WATER & GAS CONDUITS TO BE 50mm DIAMETER CLASS 12uPVC PIPE. POWER & TELSTRA CONDUIT ARE AS SPECIFIED ON THE POWER PLAN.

Scale
AS SHOWN



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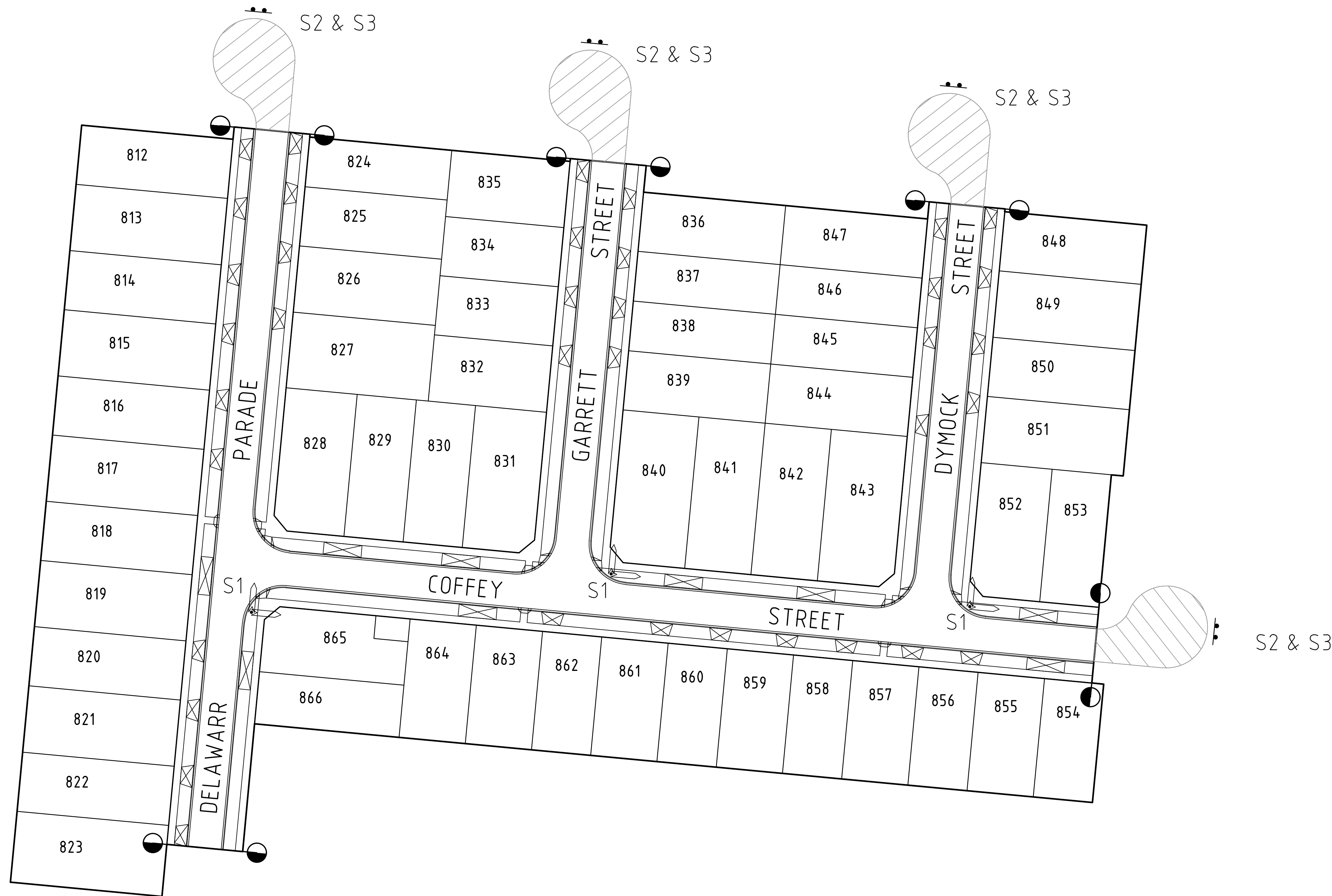
Date
MAY 2022

**PROVENANCE ESTATE
STAGE 8
ROAD AND DRAINAGE
PAVEMENT AND TYPICAL DETAILS - SHEET 1**
CITY OF GREATER BENDIGO
HUNTLY PROPERTY HOLDING PTY LTD

DRAFT

Drp No
309101CR700

Rev
A



LEGEND

S1 CoGB STREET NAME PLATES INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE

S2 G9-20

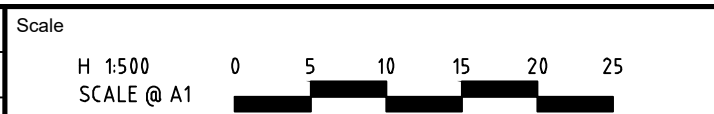
S3 D4-5

NOTES:

1. STREET SIGNS ARE TO BE MOUNTED ON SEPARATE POLES, WITH A COUNCIL APPROVED BRACKET.

file name: 309101CR800.dwg, layout name: CR800, plotted by: Harry Oakley-Warren, file location: G:\309101\309101.dwg, plot date: 06/06/2022 11:28 AM, Sheet 21 of 22 Sheets

Rev	Amendments	Approved	Date
A	PRELIMINARY ISSUE	B.I	MAY 2022



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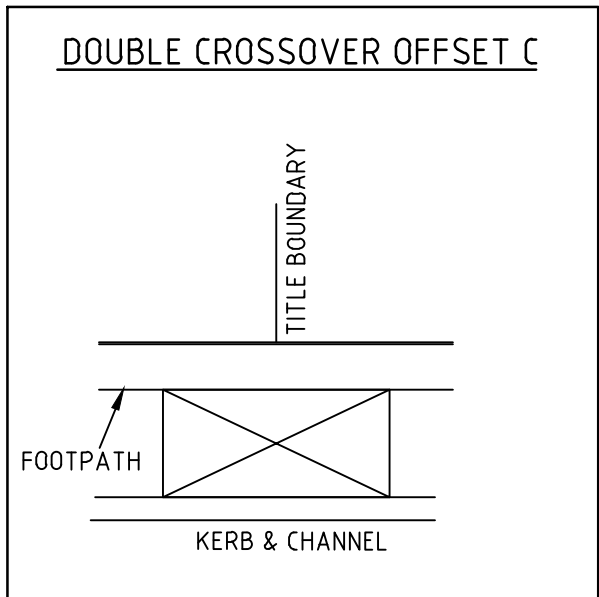
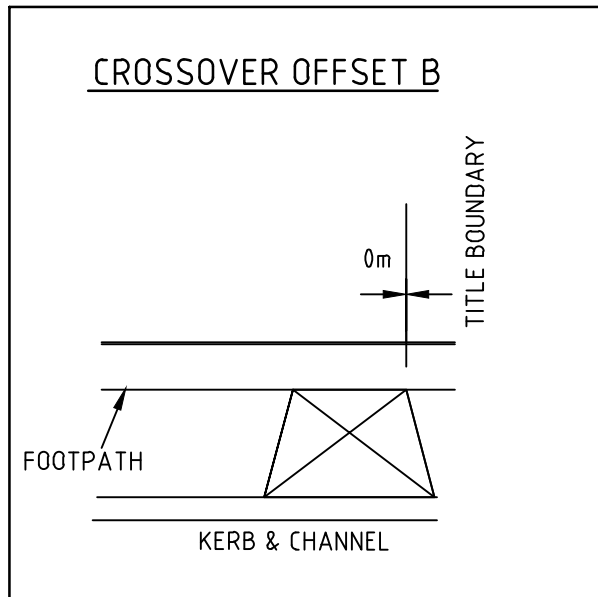
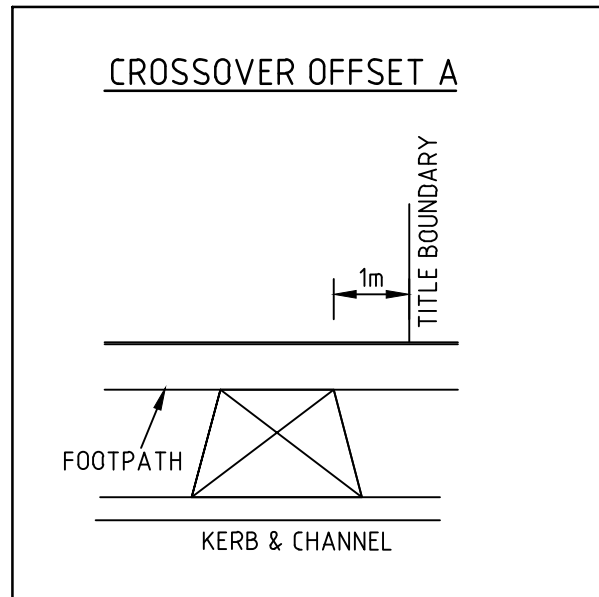
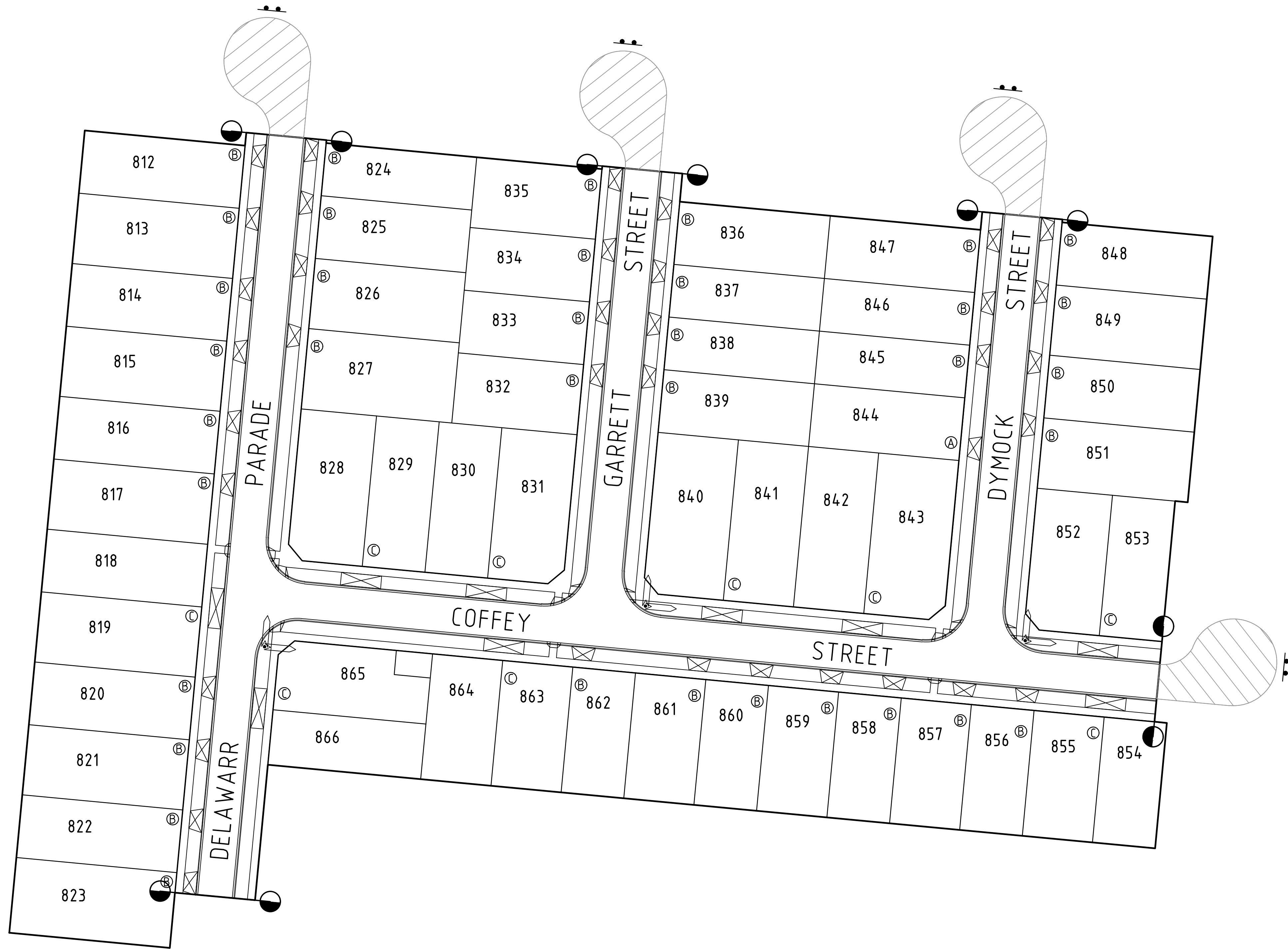
Designed D.SHEEHAN	Checked
Authorised H.OAKLEY-WARREN	Date MAY 2022

**PROVENANCE ESTATE
STAGE 8
ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING - SHEET 1
CITY OF GREATER BENDIGO
HUNTLY PROPERTY HOLDING PTY LTD**

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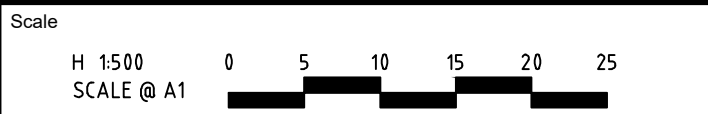
Dwg No
309101CR800

Rev
A



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PROVENANCE ESTATE
STAGE 8
ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING - SHEET 2
CITY OF GREATER BENDIGO
HUNTLY PROPERTY HOLDING PTY LTD

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Dwg No
309101CR801

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