

PROVENANCE ESTATE STAGE 8 HUNTLY PROPERTY HOLDING PTY LTD

GENERAL NOTES

A. GENERAL

- 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.
 - ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA).
 - THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
 - FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND ONLY RE-TOPSOILED ON THE DIRECTION OF THE ENGINEER, TO THE FINAL FILL LEVELS SHOWN ON THE DRAWINGS. ALL FILLING IS TO BE:
 - APPROVED BY THE PROJECT GEOTECHNICAL CONSULTANT.
 - PLACED IN LAYERS NOT EXCEEDING 200MM LOOSE THICKNESS.
 - MOISTURE CONDITIONED TO WITHIN 85% TO 115% OF OPTIMUM MOISTURE CONTENT.
 - COMPACTED TO A MINIMUM 95% (STANDARD) DRY DENSITY RATIO.
 - PLACED UNDER "LEVEL 1" SUPERVISION IN ACCORDANCE WITH AS 3798-1996.
 - EXISTING DEPRESSIONS & DRAINS TRAVERSING THE SITE ARE TO BE CLEANED OUT AND DESLUDGED TO FIRM BASE AND FILLED TO FINISHED SURFACE LEVELS TO THE SPECIFIED COMPACTION STANDARDS.
 - TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBM'S THEREAFTER.
 - POSITION CONDUITS SO THAT A MINIMUM DISTANCE BETWEEN TAPPING IS 1.0M. CONDUITS TO BE LOCATED MIDWAY BETWEEN FENCE LINE OF LOT, UNLESS OTHERWISE SHOWN.
 - BEFORE COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 1.5 M DEEP, THE REQUIRED NOTICE IS TO BE SENT TO THE VICTORIAN WORKCOVER AUTHORITY IN ACCORDANCE WITH THE MINES ACT, 1958 NO 6320 SECTION 385 AND THE OCCUPATIONAL HEALTH AND SAFETY ACT 1985. THIS NOTIFICATION MUST BE RECEIVED BY THE AUTHORITY AT LEAST 3 DAYS PRIOR TO COMMENCING EXCAVATIONS, AND A COPY OF THE NOTIFICATION MUST BE PROVIDED TO THE SUPERINTENDENT.
 - COUNCIL'S REPRESENTATIVE IS TO BE NOTIFIED IN WRITING SEVEN (7) DAYS PRIOR TO THE COMMENCEMENT OF WORKS.
 - NO EXCAVATION WITHIN 5M OF ANY EXISTING TREE WITHOUT APPROVAL OF THE ENGINEER.
 - NO BLASTING IS PERMITTED WITHIN THE CITY OF GREATER BENDIGO WITHOUT OBTAINING COUNCIL'S SPECIAL DISPENSATION.
 - EXCAVATED MATERIAL SURPLUS TO FILLING REQUIREMENTS OF THE WORKS SHALL BE REMOVED FROM SITE AS SPECIFIED.
 - ALL SURPLUS ROCK, CONCRETE AND BITUMINOUS RUBBLE SHALL BE DISPOSED OFF SITE AS SPECIFIED. THE CONTRACTOR SHALL CHECK WITH SUPERINTENDENT WHETHER ANY LARGE ROCKS ARE REQUIRED FOR LANDSCAPE PURPOSES PRIOR TO DISPOSAL.
 - NATURESTRIPS AND ALL AREAS OF CUT OUTSIDE ROAD RESERVE TO BE SURFACED WITH 100MM MINIMUM COMPACTED LAYER OF TOPSOIL.
- ### B. ROAD WORKS
- FOOTPATHS ARE TO BE 1.5M WIDE UNLESS SHOWN OTHERWISE. FOOTPATHS TO BE CONSTRUCTED TO THE CITY OF GREATER BENDIGO STANDARDS.
 - CONSTRUCT LAYBACK SECTION AT VEHICLE CROSSING, REVERSING BAYS AND CAR PARKING BAYS AND PRAM CROSSING TO THE CITY OF GREATER BENDIGO STANDARDS.
 - ALL CHAINAGES REFER TO ROAD PAVEMENT CENTRELINES EXCEPT IN COURT HEADS AND INTERSECTIONS WHERE CHAINAGES REFER TO BACK OF KERB.
 - THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE MADE GOOD.
 - ALL BATTERS SHALL BE TO THE CITY OF GREATER BENDIGO STANDARDS.
 - CUT 1 IN 12 UNLESS OTHERWISE SHOWN.
 - FILL 1 IN 12 UNLESS OTHERWISE SHOWN.
 - ALL SET OUT INFORMATION GIVEN IS TO LIP OF KERB UNLESS OTHERWISE SHOWN.
 - WHERE CRUSHED ROCK IS SHOWN UNDER CONCRETE FOOTPATHS CONSTRUCTED ON FILL, THE CRUSHED ROCK IS TO BE 20MM CLASS 3. WHERE CUT BATTERS ARE STEEPER THAN 1:6 THEY MUST BE HYDRO MULCHED.
 - SUBGRADE BE COMPACTED TO A MINIMUM OF 98% STANDARD MAXIMUM DRY DENSITY (AS3798), WITH THE SUBBASE COMPACTED IN ACCORDANCE WITH SCALE C INVICROADS TABLE 304.071 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.
 - 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.
 - CONCRETE TO HAVE 28DAY STRENGTH OF 25MPA UNLESS NOTED OTHERWISE.

DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES - SHEET 1	1	B
CR200	ROAD LAYOUT PLANS - SHEET 1	2	B
CR201	ROAD LAYOUT PLANS - SHEET 2	3	B
CR202	ROAD LAYOUT PLANS - SHEET 3	4	B
CR300	ROAD LONG SECTIONS - SHEET 1	5	B
CR301	ROAD LONG SECTIONS - SHEET 2	6	B
CR400	ROAD CROSS SECTIONS - SHEET 1	7	B
CR401	ROAD CROSS SECTIONS - SHEET 2	8	B
CR402	ROAD CROSS SECTIONS - SHEET 3	9	B
CR403	ROAD CROSS SECTIONS - SHEET 4	10	B
CR404	ROAD CROSS SECTIONS - SHEET 5	11	B
CR405	ROAD CROSS SECTIONS - SHEET 6	12	B
CR406	ROAD CROSS SECTIONS - SHEET 7	13	B
CR500	INTERSECTION DETAILS - SHEET 1	14	B
CR600	DRAINAGE LONG SECTIONS - SHEET 1	15	B
CR601	DRAINAGE LONG SECTIONS - SHEET 2	16	B
CR602	DRAINAGE LONG SECTIONS - SHEET 3	17	B
CR603	DRAINAGE LONG SECTIONS - SHEET 4	18	B
CR604	DRAINAGE LONG SECTIONS - SHEET 5	19	B
CR605	DRAINAGE LONG SECTIONS - SHEET 6	20	B
CR606	DRAINAGE LONG SECTIONS - SHEET 7	21	B
CR700	PAVEMENT AND TYPICAL DETAILS - SHEET 1	22	B
CR800	SIGNAGE AND LINEMARKING - SHEET 1	23	B
CR801	SIGNAGE AND LINEMARKING - SHEET 2	24	B



LOCALITY PLAN

NOT TO SCALE

LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	--- DW ---	--- DW ---
WATER RECYCLED	--- NDW ---	--- NDW ---
UNDERGROUND ELECTRICITY	--- E ---	--- E ---
TELECOMMUNICATIONS & SERVICE PIT	--- T ---	--- T ---
OPTIC FIBRE	--- OF ---	--- OF ---
OVERHEAD TELECOMMUNICATIONS	--- OT ---	--- OT ---
GAS MAIN	--- G ---	--- G ---
SEWER & MAINTENANCE STRUCTURE	--- S ---	--- S ---
CENTRAL INVERT	--->---	--->---
COUNCIL STORMWATER DRAIN AND PIT	--->---	--->---
COUNCIL STORM WATER PITS	--->---	--->---
HOUSE DRAIN	--->---	--->---
STORM WATER DRAINAGE PIT NUMBER	Ex 4.7	1
GAS & WATER CONDUITS	--- GW ---	--- GW ---
CONCRETE VEHICLE CROSSING	--->---	--->---
SURFACE CONTOUR MINOR	--- 169.00 ---	--- 169.00 ---
SURFACE CONTOUR MAJOR	--- 168.90 ---	--- 168.90 ---
SURFACE LEVEL	E123.45	F124.68
BATTER LEVEL (TOP / TOE)	T124.80	T124.80
EARTHWORKS GRADE	--->---	--->---
SIGN AND POST	--->---	--->---
LIGHT & POLE (BY OTHERS)	--->---	--->---
STREET SIGN	--->---	--->---
PERMANENT SURVEY MARK	--->---	--->---
TEMPORARY BENCH MARK	--->---	--->---
BOLLARD	--->---	--->---
ROAD CHAINAGES	CH116.57 (L/R)TP CH16.57	CH116.57 (L/R)TP CH16.57
LOT CHAINAGES	CH20.06	CH20.06
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
DELAWARR PARADE	W	2.40	W	1.90	E	1.90	E	x0.8	E	2.40
COFFEY STREET	N	2.40	N	1.90	S	1.90	S	x0.8	S	2.40
GARRETT STREET	W	2.40	W	1.90	E	1.90	E	x0.8	E	2.40
DYMOCK STREET	W	2.40	W	1.90	E	1.90	E	x0.8	E	2.40

- TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S.
- GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
- * = OFFSET FROM BACK OF KERB



WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
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Rev	Description	By	Date
B	UPSIZED DRAINAGE IN REAR OF FUTURE LOTS	H. O.	19/05/23
A	PRELIMINARY ISSUE	B.I.	25/11/22
Rev	Amendments	Approved	Date



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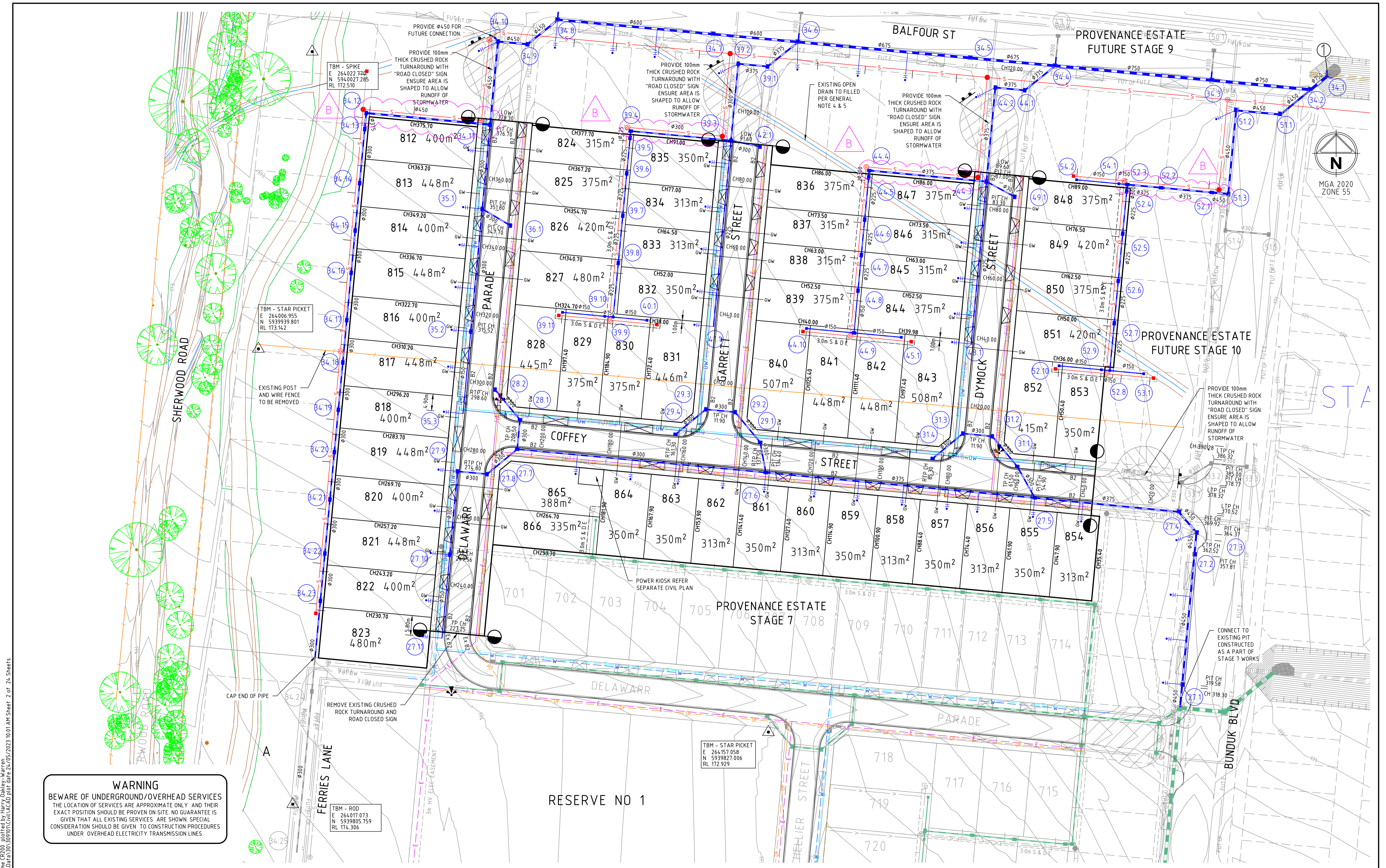
16 BRIDGE STREET BENDIGO
VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

Designed
H. OAKLEY-WARREN
Authorised
C. CLARKE

Checked
B. IBBS
Date
MAY 2023

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

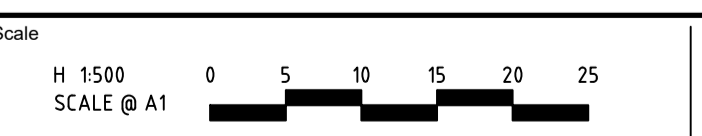
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Rev	Amendments	Approved	Date
B	UPSIZED DRAINAGE IN REAR OF FUTURE LOTS	H. O.	19/05/23
A	PRELIMINARY ISSUE	B.I.	25/11/22



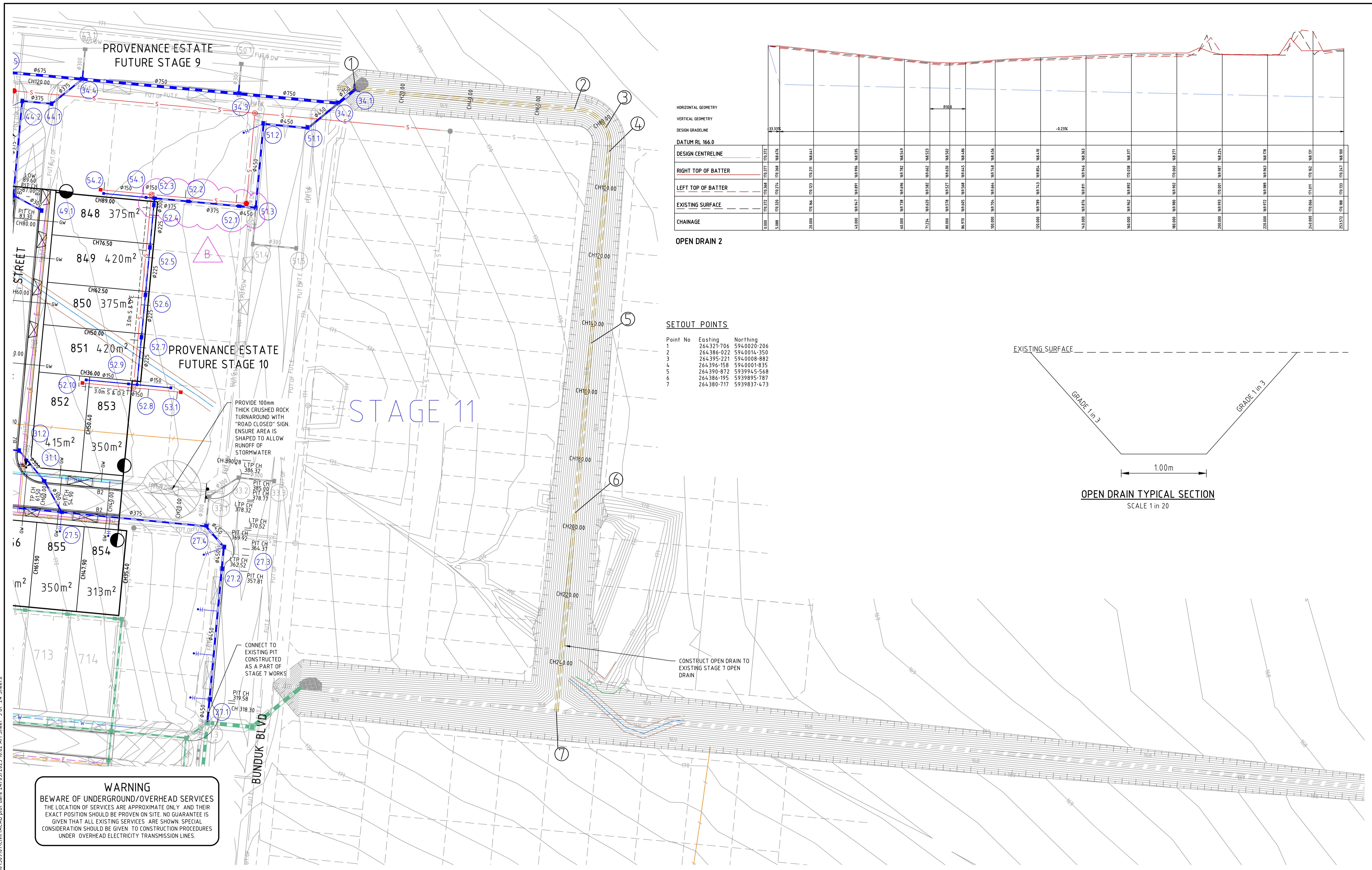
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 C. CLARKE
 Checked
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 Date
 MAY 2023

PROVENANCE ESTATE
STAGE 8
ROAD AND DRAINAGE
ROAD LAYOUT PLANS - SHEET 1
 CITY OF GREATER BENDIGO
 HUNTLY PROPERTY HOLDING PTY LTD
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HORIZONTAL GEOMETRY
VERTICAL GEOMETRY
DESIGN GRADELINE

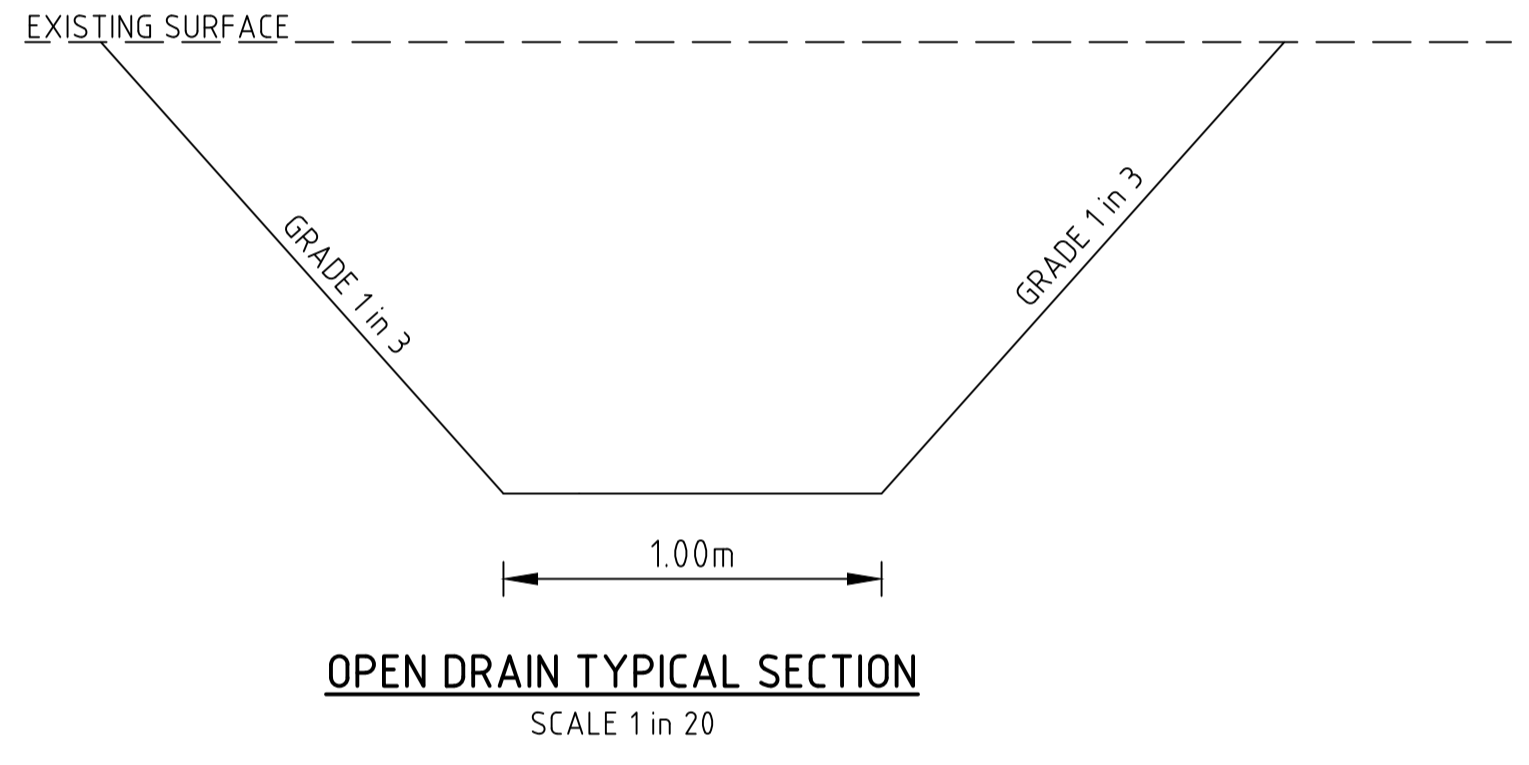
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CHAINAGE	DESIGN CENTRELINE	RIGHT TOP OF BATTER	LEFT TOP OF BATTER	EXISTING SURFACE
0+00	170.372	170.348	170.274	170.300
5+000	170.372	170.348	170.274	170.300
10+000	170.372	170.348	170.274	170.300
15+000	170.372	170.348	170.274	170.300
20+000	170.372	170.348	170.274	170.300
25+000	170.372	170.348	170.274	170.300
30+000	170.372	170.348	170.274	170.300
35+000	170.372	170.348	170.274	170.300
40+000	170.372	170.348	170.274	170.300
45+000	170.372	170.348	170.274	170.300
50+000	170.372	170.348	170.274	170.300
55+000	170.372	170.348	170.274	170.300
60+000	170.372	170.348	170.274	170.300
65+000	170.372	170.348	170.274	170.300
70+000	170.372	170.348	170.274	170.300
75+000	170.372	170.348	170.274	170.300
80+000	170.372	170.348	170.274	170.300
85+000	170.372	170.348	170.274	170.300
90+000	170.372	170.348	170.274	170.300
95+000	170.372	170.348	170.274	170.300
100+000	170.372	170.348	170.274	170.300
105+000	170.372	170.348	170.274	170.300
110+000	170.372	170.348	170.274	170.300
115+000	170.372	170.348	170.274	170.300
120+000	170.372	170.348	170.274	170.300
125+000	170.372	170.348	170.274	170.300
130+000	170.372	170.348	170.274	170.300
135+000	170.372	170.348	170.274	170.300
140+000	170.372	170.348	170.274	170.300
145+000	170.372	170.348	170.274	170.300
150+000	170.372	170.348	170.274	170.300
155+000	170.372	170.348	170.274	170.300
160+000	170.372	170.348	170.274	170.300
165+000	170.372	170.348	170.274	170.300
170+000	170.372	170.348	170.274	170.300
175+000	170.372	170.348	170.274	170.300
180+000	170.372	170.348	170.274	170.300
185+000	170.372	170.348	170.274	170.300
190+000	170.372	170.348	170.274	170.300
195+000	170.372	170.348	170.274	170.300
200+000	170.372	170.348	170.274	170.300

OPEN DRAIN 2

SETOUT POINTS

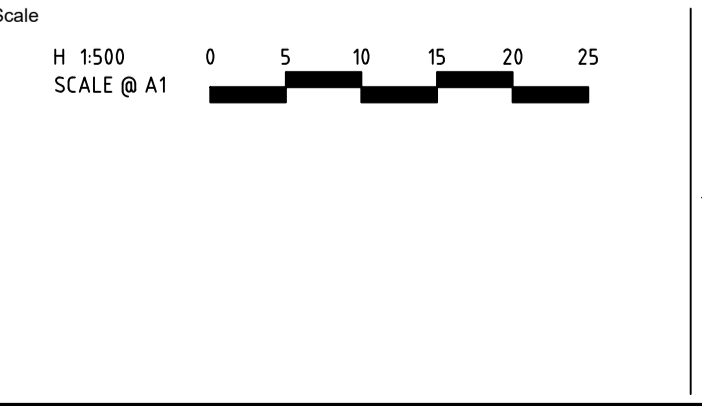
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2	264386.022	5940014.350
3	264395.221	5940008.882
4	264396.158	5940001.835
5	264390.872	5939945.568
6	264386.195	5939895.787
7	264380.717	5939837.473



WARNING
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file name: 3895\spire\Bendigo\309101\CR200.dwg
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sheet: 3 of 24 sheets

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B	UPSIZED DRAINAGE IN REAR OF FUTURE LOTS	H. O.	19/05/23
A	PRELIMINARY ISSUE	B.L.	25/11/22
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Designed	Checked
H. OAKLEY-WARREN	B. IBBS
Authorised	Date
C. CLARKE	MAY 2023

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

PRELIMINARY 309101CR201 **B**



DEPTH RANGES (200mm)		
FROM	TO	COLOUR
-	-1.60	
-1.60	-1.40	
-1.40	-1.20	
-1.20	-1.00	
-1.00	-0.80	
-0.80	-0.60	
-0.60	-0.40	
-0.40	-0.20	
-0.20	0.00	
0.00	0.20	
0.20	0.40	
0.40	0.60	
0.60	0.80	
0.80	1.00	
1.00	1.20	
1.20	1.40	
1.40	1.60	
1.60	+	

- LEGEND**
- TB XXX.XX TOP OF BATTER LEVELS
 - FS XXX.XX FINISHED SURFACE LEVELS (AT BOUNDARY)
 - ES XXX.XX EXISTING SURFACE LEVELS (AT BOUNDARY)

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Scale	H 1500 SCALE @ A1	
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A	PRELIMINARY ISSUE	B.I. 25/11/22
	Amendments	Approved Date

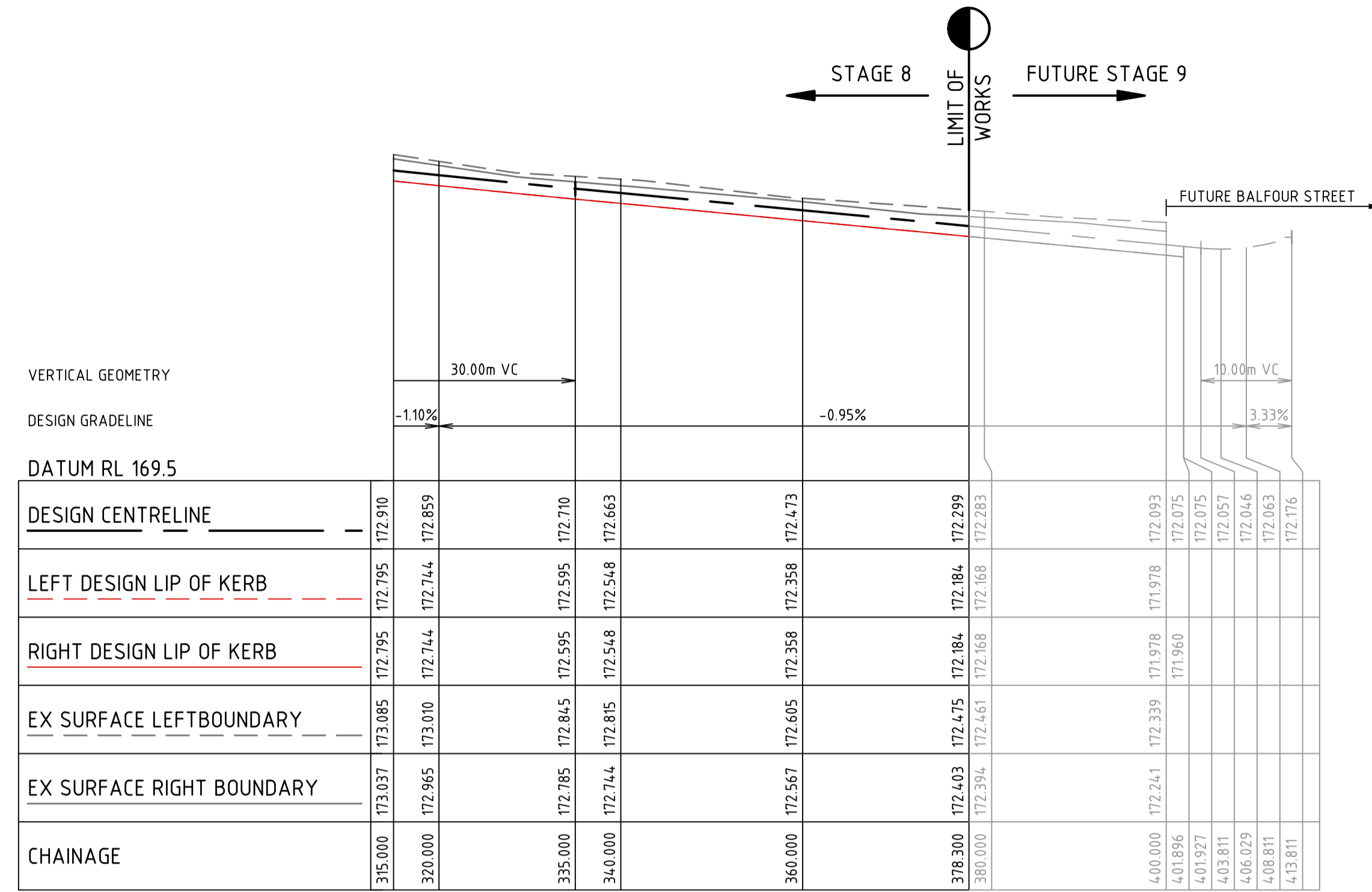
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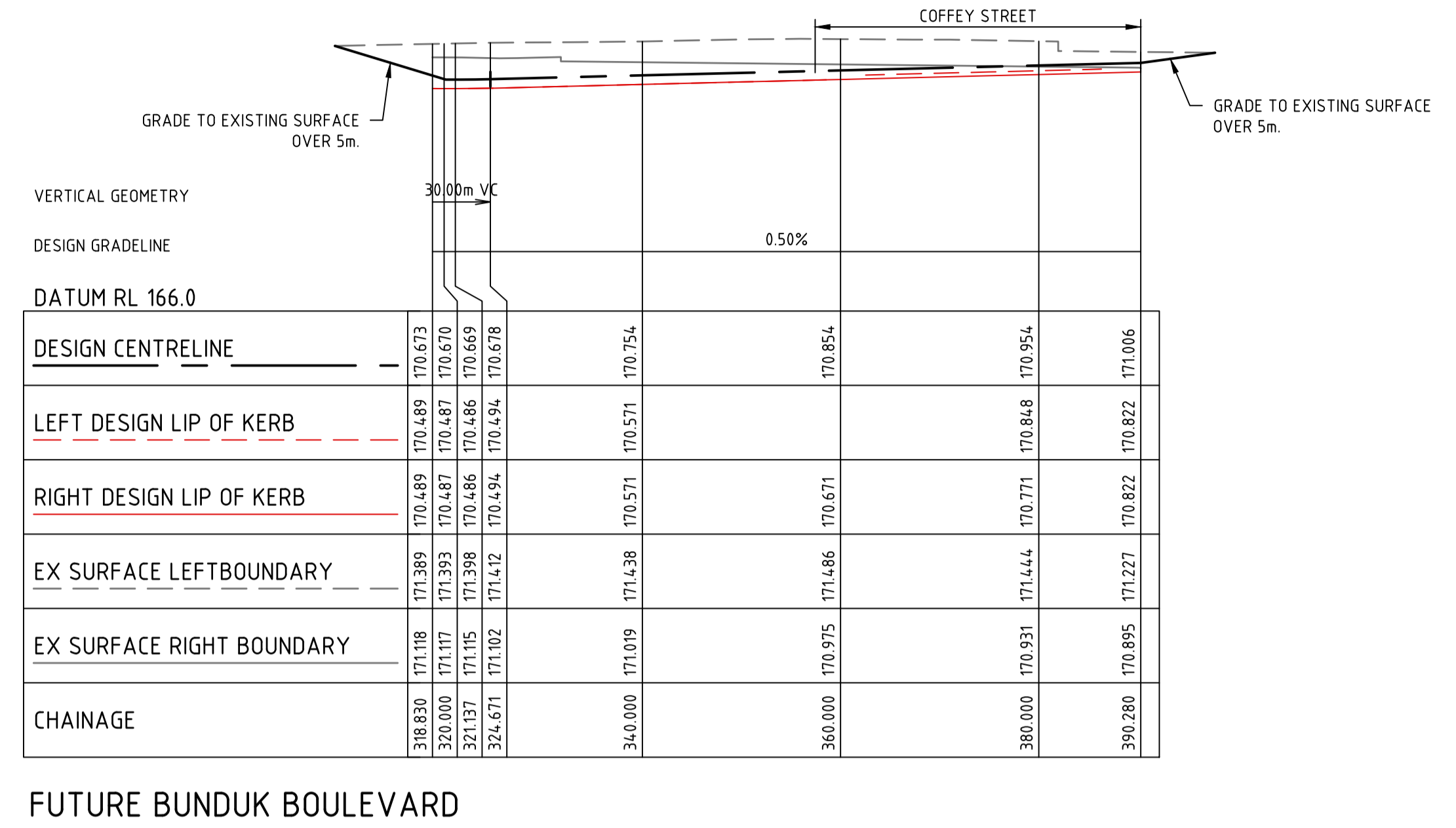
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Authorised	C. CLAKRE	Date	MAY 2023

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

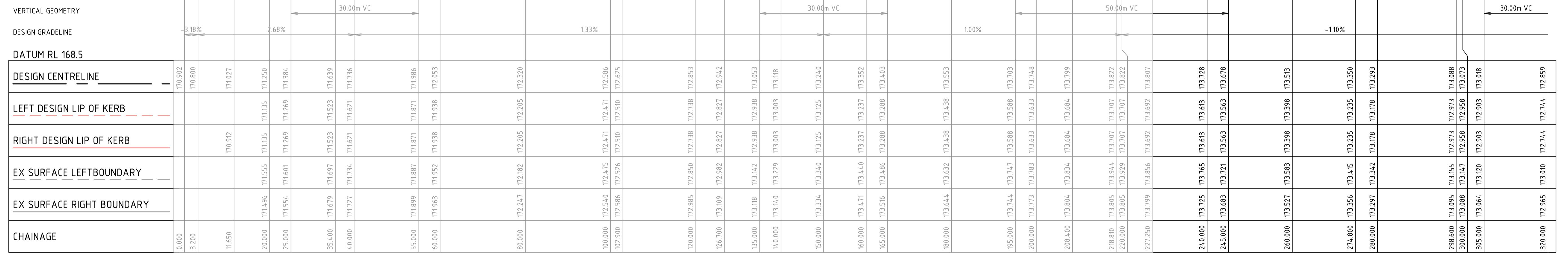
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309101CR202
 Rev
B



DELAWARR PARADE



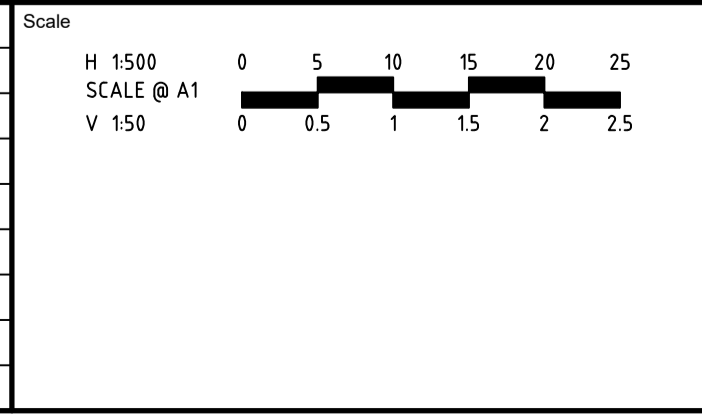
FUTURE BUNDUK BOULEVARD



DELAWARR PARADE

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Rev	Amendments	Approved	Date
B	UPSIZED DRAINAGE IN REAR OF FUTURE LOTS	H. O.	19/05/23
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Designed H. OAKLEY-WARREN	Checked B. IBBS
Authorised C. CLARKE	Date MAY 2023

PROVENANCE ESTATE

STAGE 8

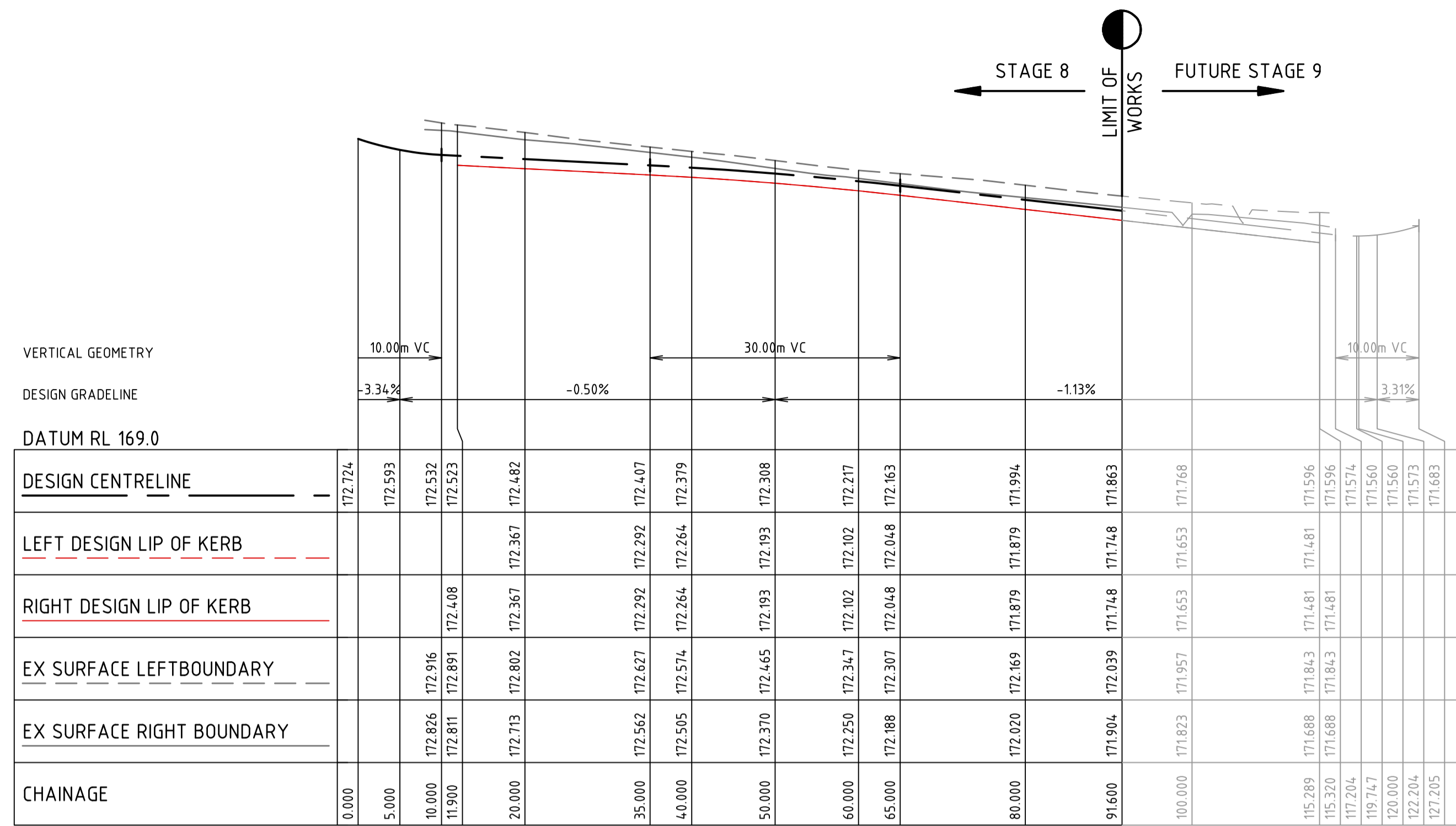
ROAD AND DRAINAGE

ROAD LONG SECTIONS - SHEET 1

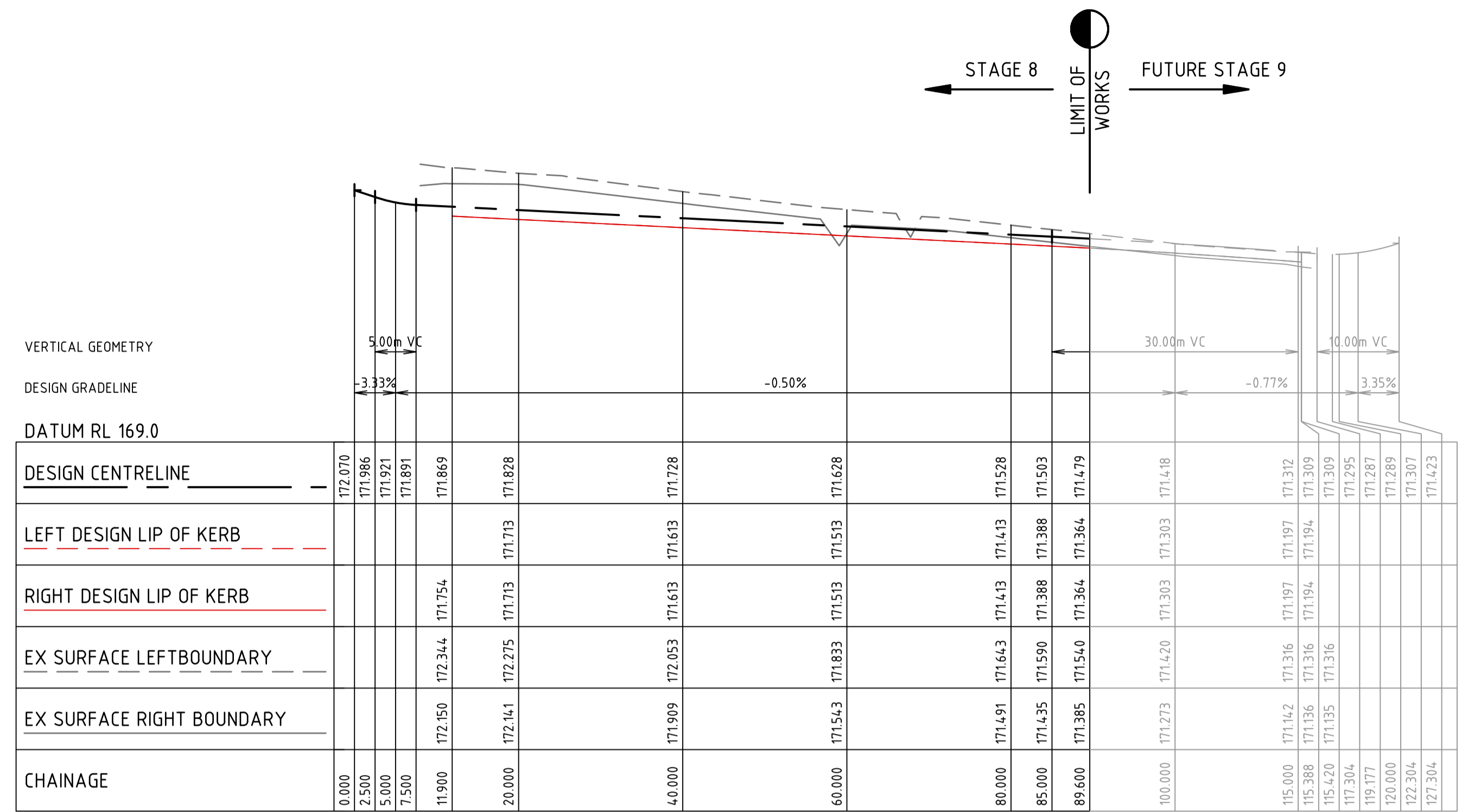
 CITY OF GREATER BENDIGO

 HUNTLY PROPERTY HOLDING PTY LTD

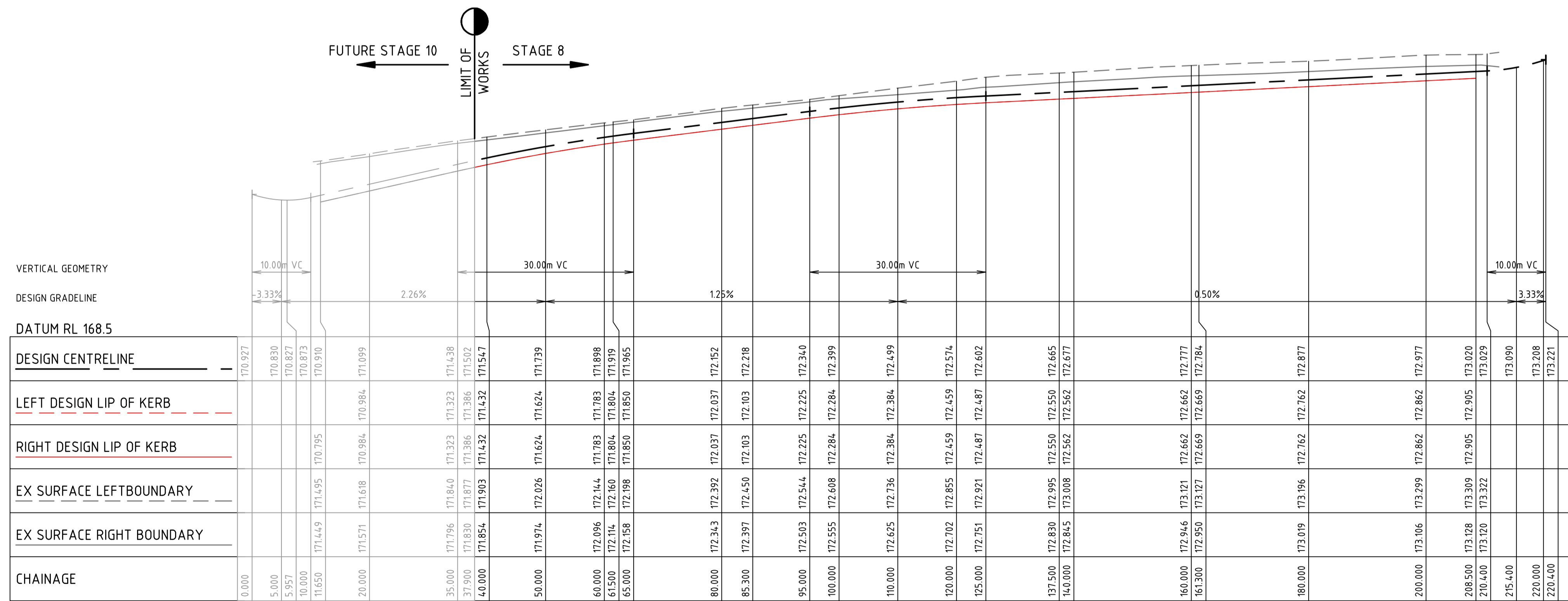
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Dwg No 309101CR300 Rev B



GARRETT STREET



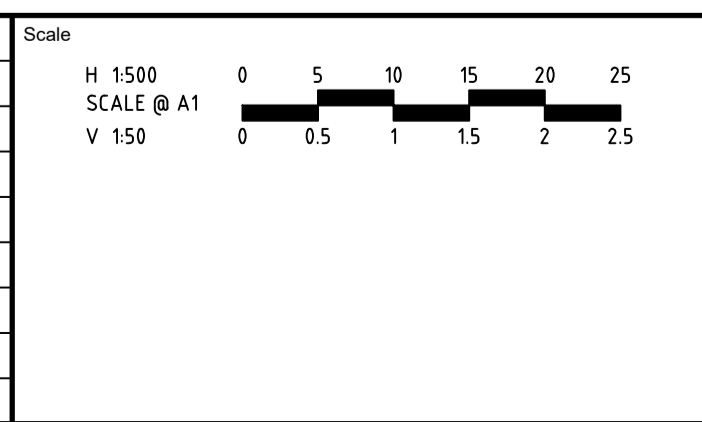
DYMOCK STREET



COFFEY STREET

file name: 309101CR301.dwg, layout name: CS301, created by: Harry Oakley-Warren, date: 19/05/2023 10:02 AM, sheet: 6 of 24-Sheets

Rev	Description	Approved	Date
B	UPSIZED DRAINAGE IN REAR OF FUTURE LOTS	H. O.	19/05/23
A	PRELIMINARY ISSUE	B.I.	25/11/22
	Amendments		



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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	H. OAKLEY-WARREN	Checked	B. IBBS
Authorised	C. CLARKE	Date	MAY 2023

PROVENANCE ESTATE

STAGE 8

ROAD AND DRAINAGE

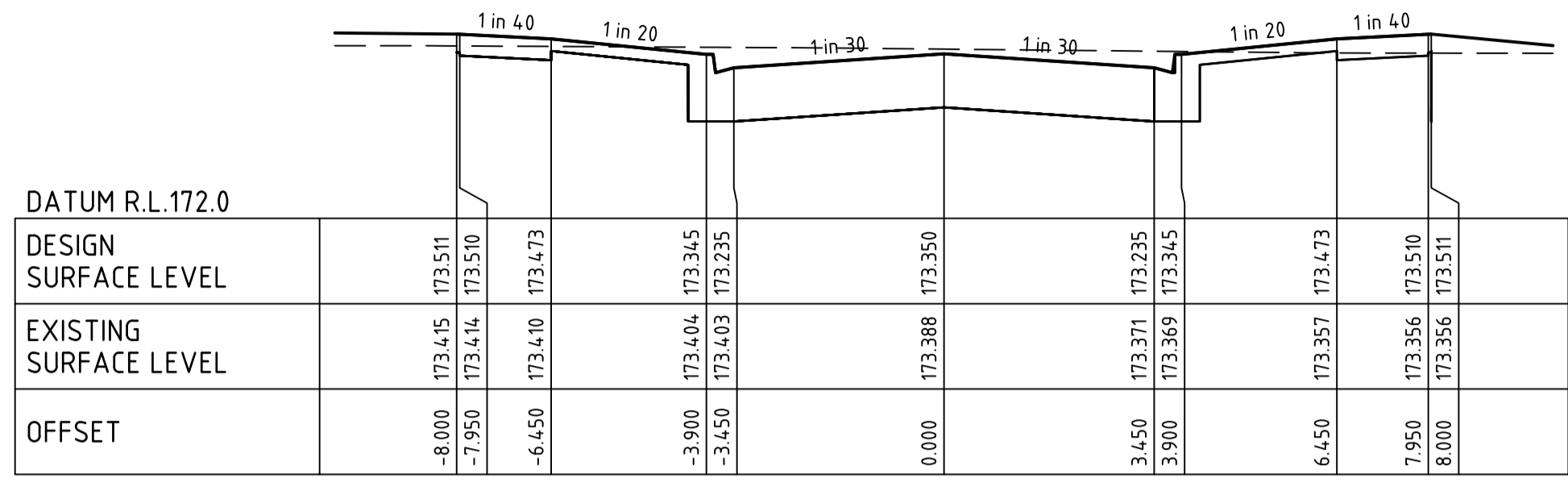
ROAD LONG SECTIONS - SHEET 2

 CITY OF GREATER BENDIGO

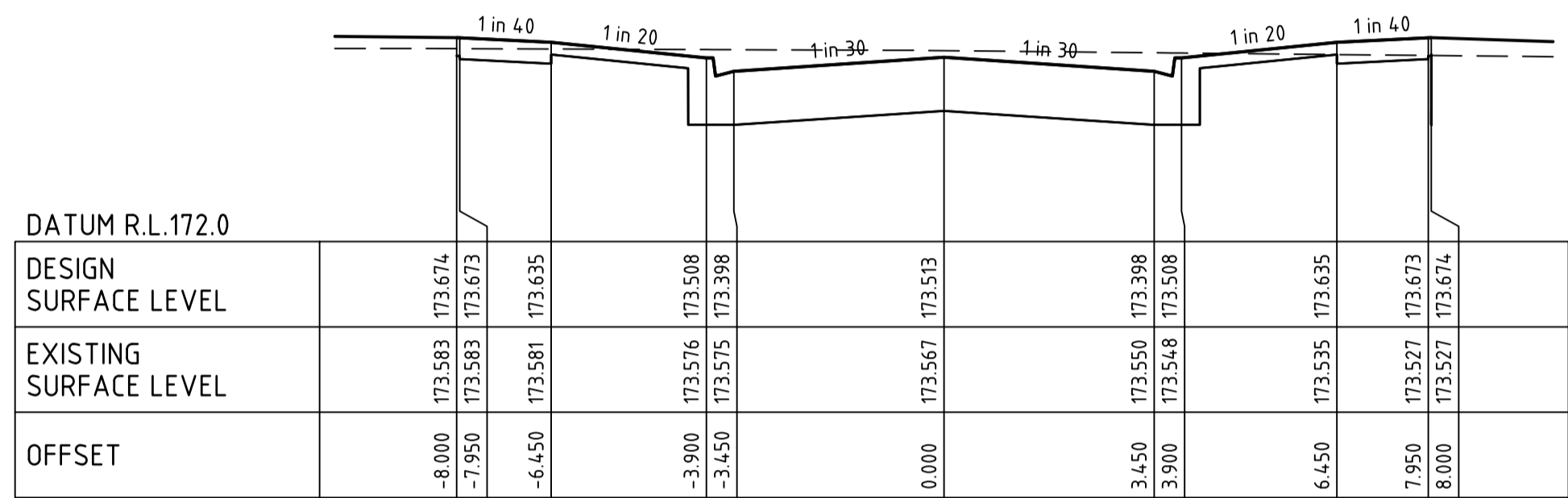
 HUNTLY PROPERTY HOLDING PTY LTD

PRELIMINARY Dwg No: 309101CR301 Rev: B

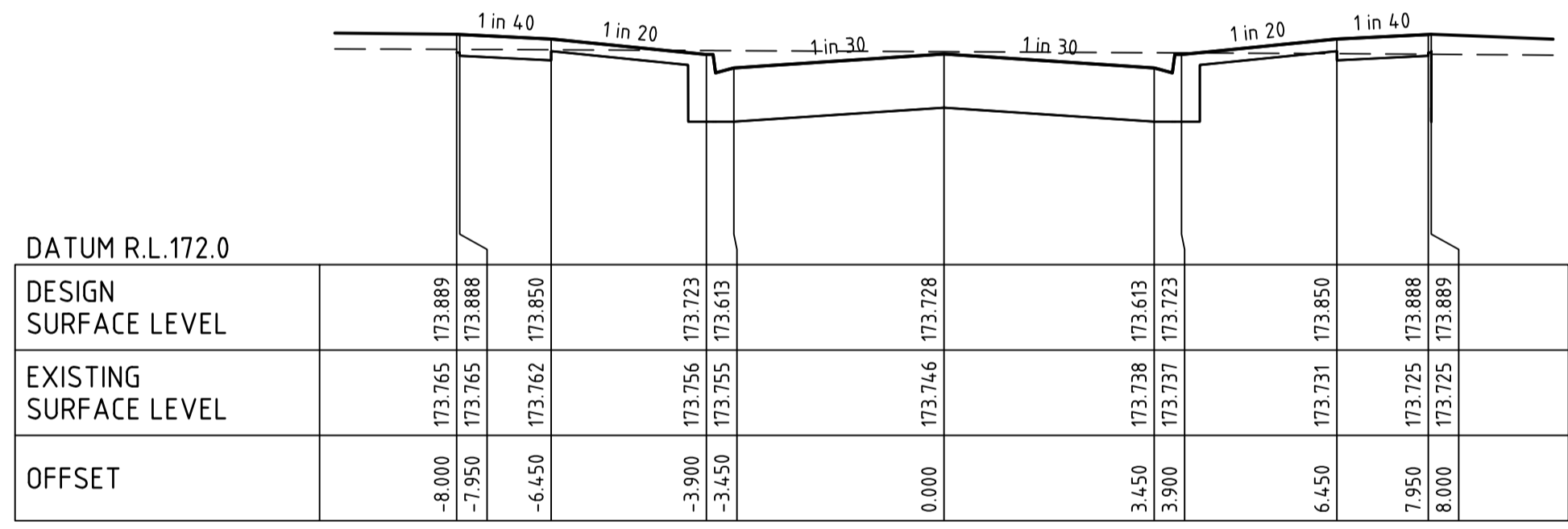
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 ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED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



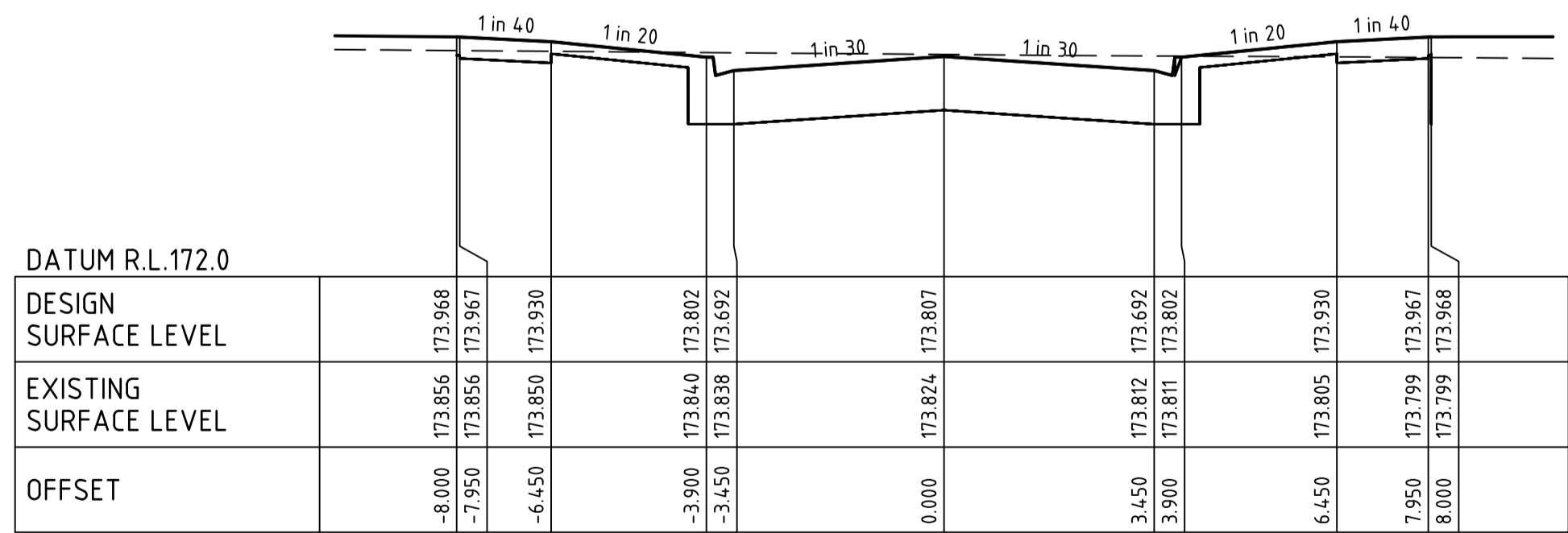
DELAWARE PARADE CH 274.80



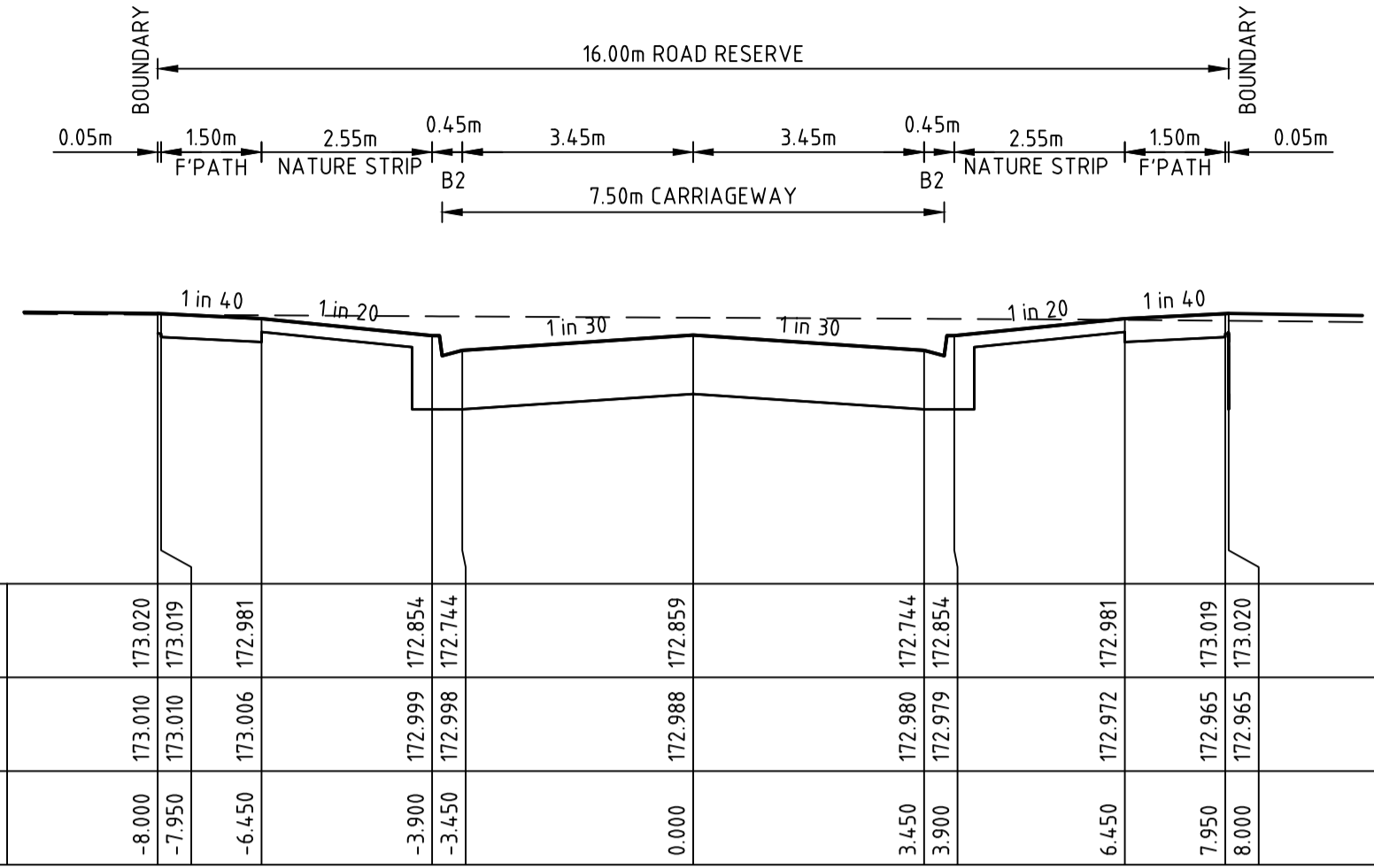
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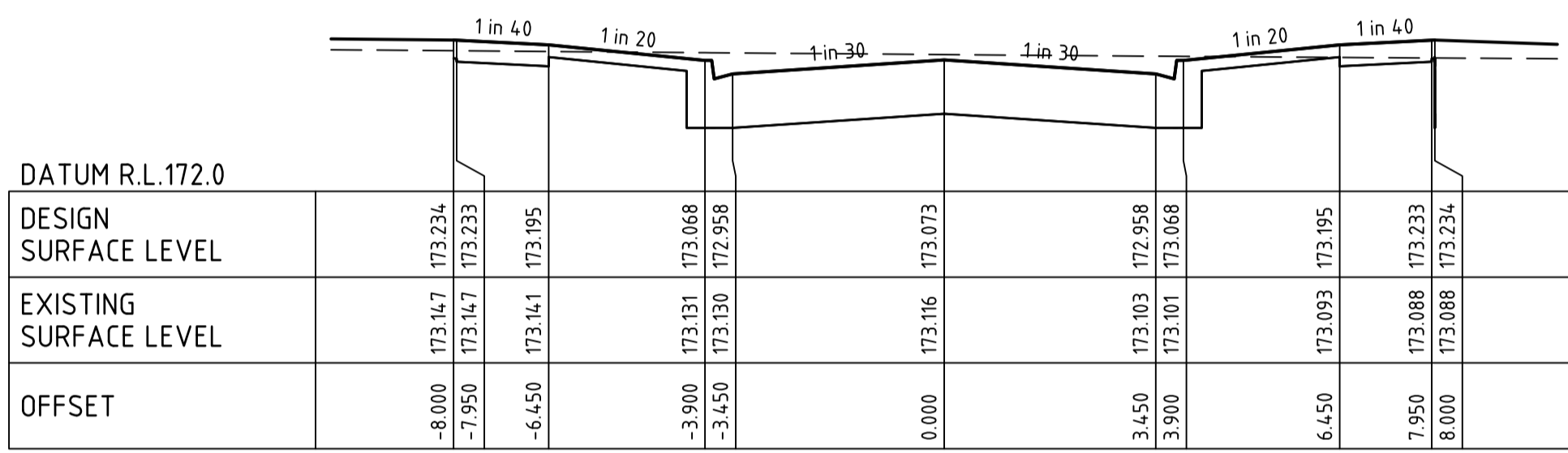
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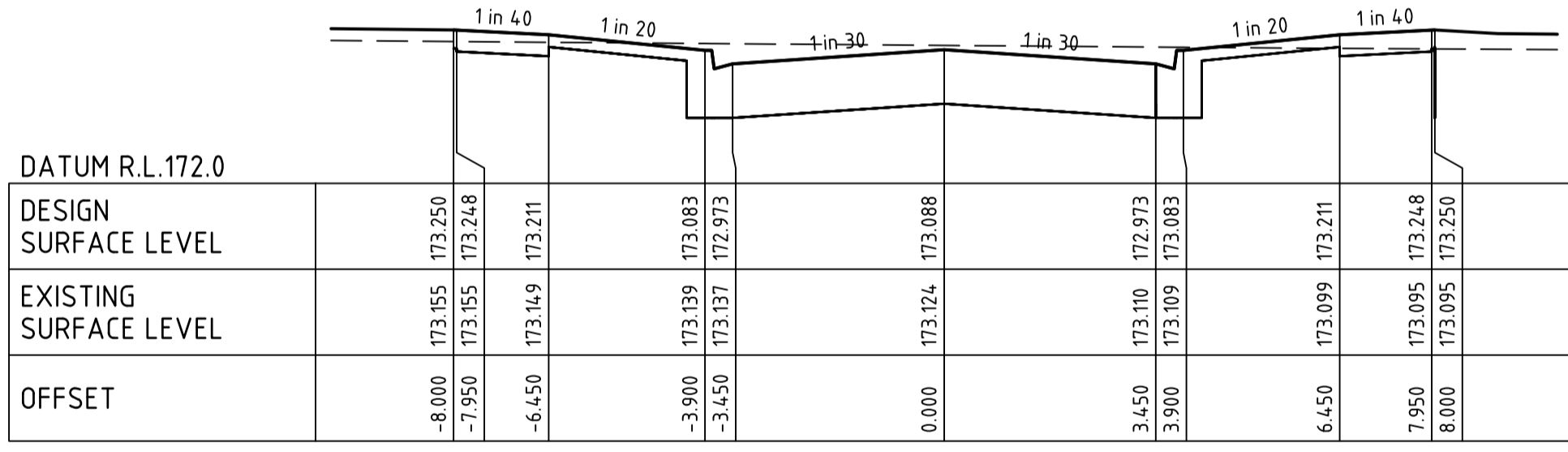
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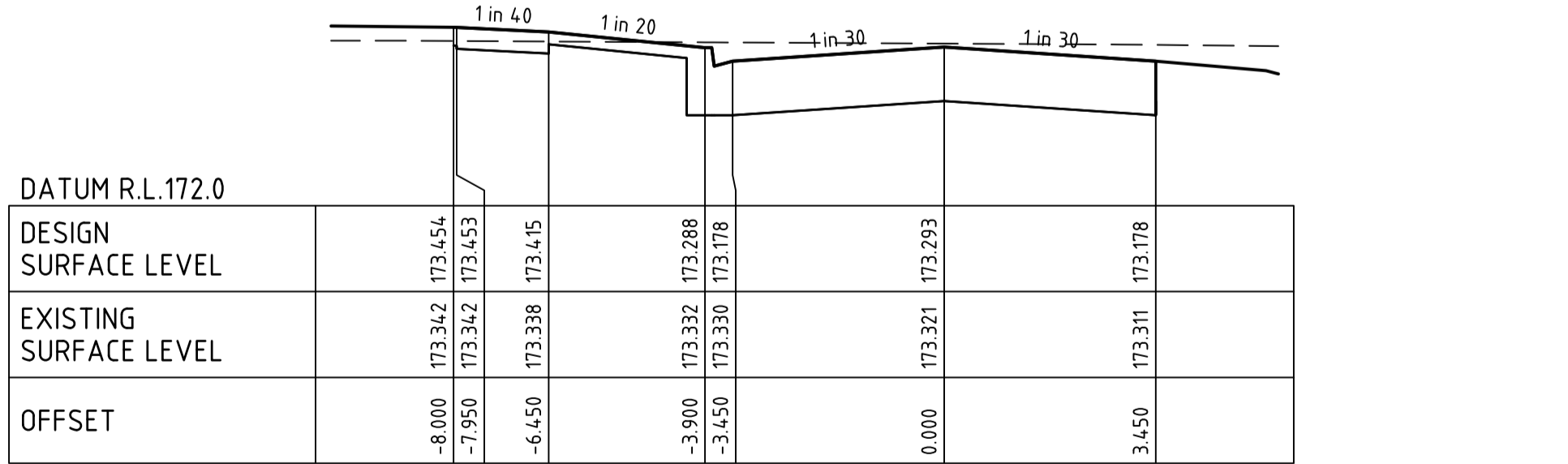
DELAWARE PARADE CH 320.00



DELAWARE PARADE CH 300.00



DELAWARE PARADE CH 298.60



DELAWARE PARADE CH 280.00

file: s:\309101CR400.dwg, layout: csm: C54.00, plotted by: H. O. Oakley-Warren, 2023/05/23 10:02 AM, Sheet 7 of 24, Sheets

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ISO 9001	ISO 45001	ISO 14001	
System Certified			
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B	UPSIZED DRAINAGE IN REAR OF FUTURE LOTS	H. O.	19/05/23
A	PRELIMINARY ISSUE	B.I.	25/11/22
Rev	Amendments	Approved	Date



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

Designed
H. OAKLEY-WARREN

Authorised
C. CLARKE

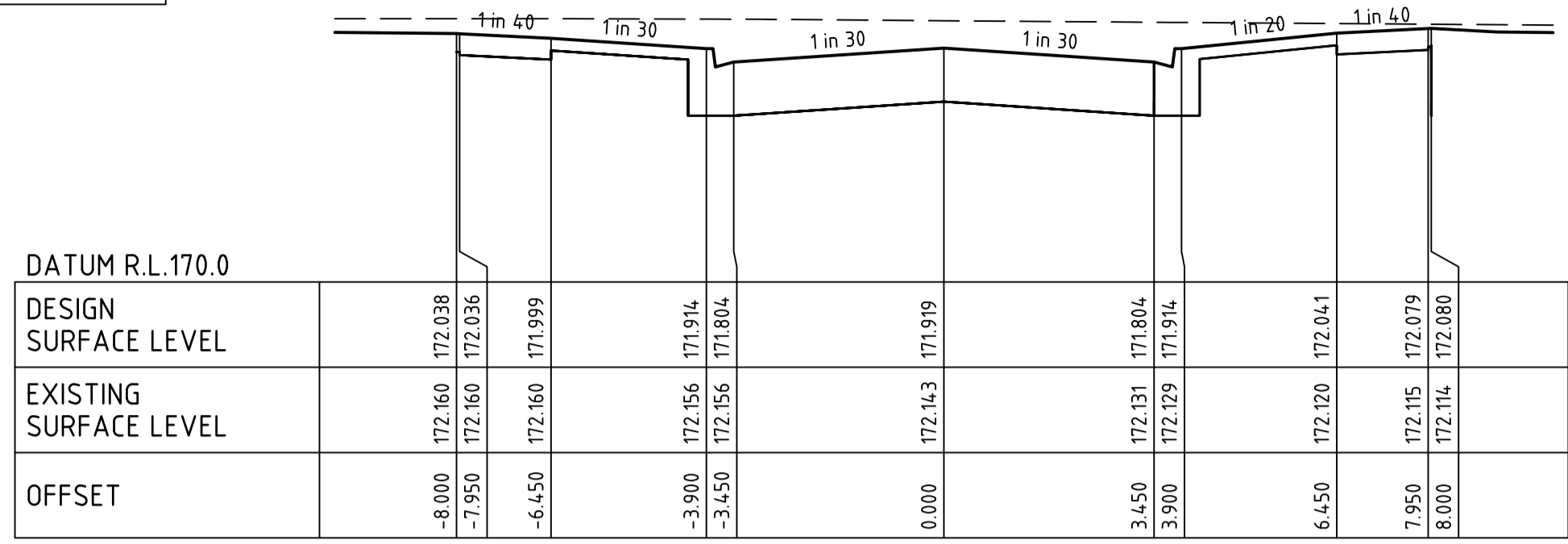
Checked
B. IBBS

Date
MAY 2023

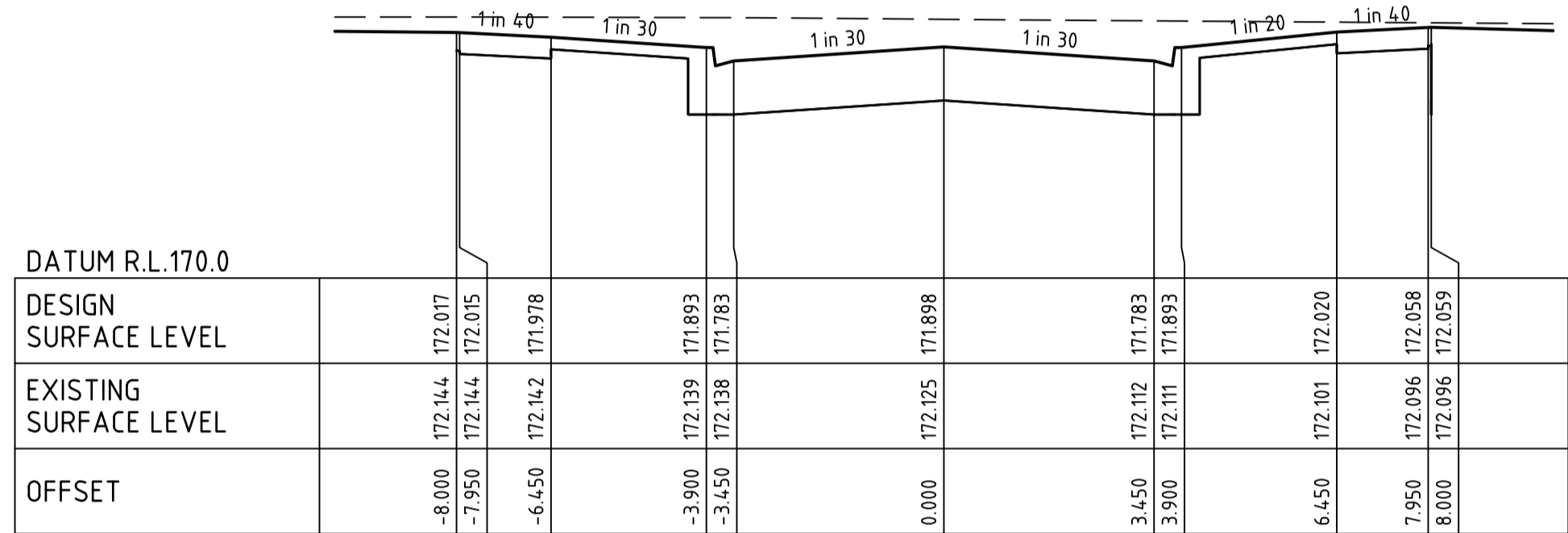
**PROVENCE ESTATE
 STAGE 8
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 1
 CITY OF GREATER BENDIGO
 HUNTLY PROPERTY HOLDING PTY LTD**

PRELIMINARY Dwg No **309101CR400** Rev **B**

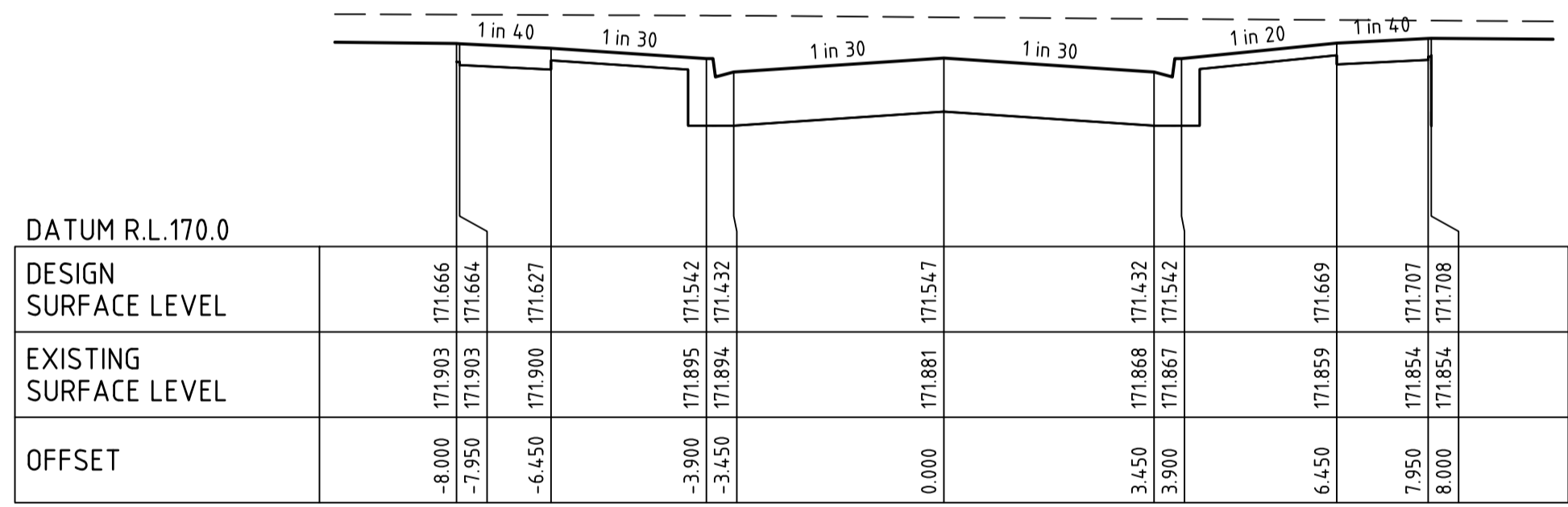
FILLING NOTE
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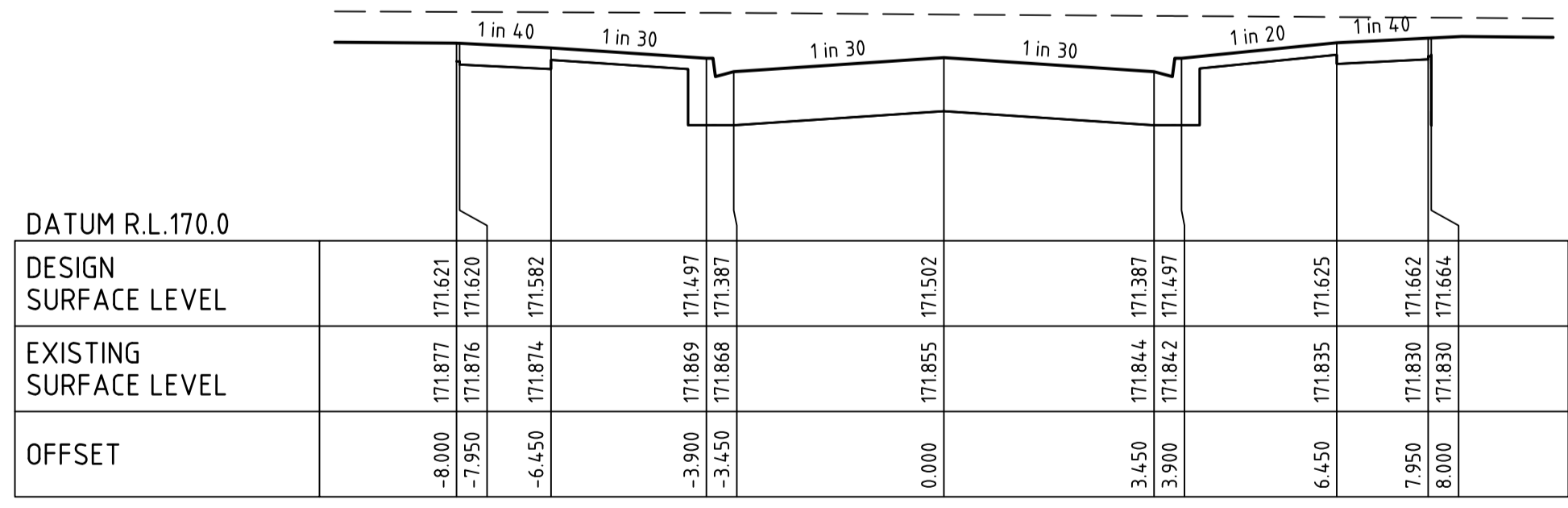
COFFEY STREET CH 61.50



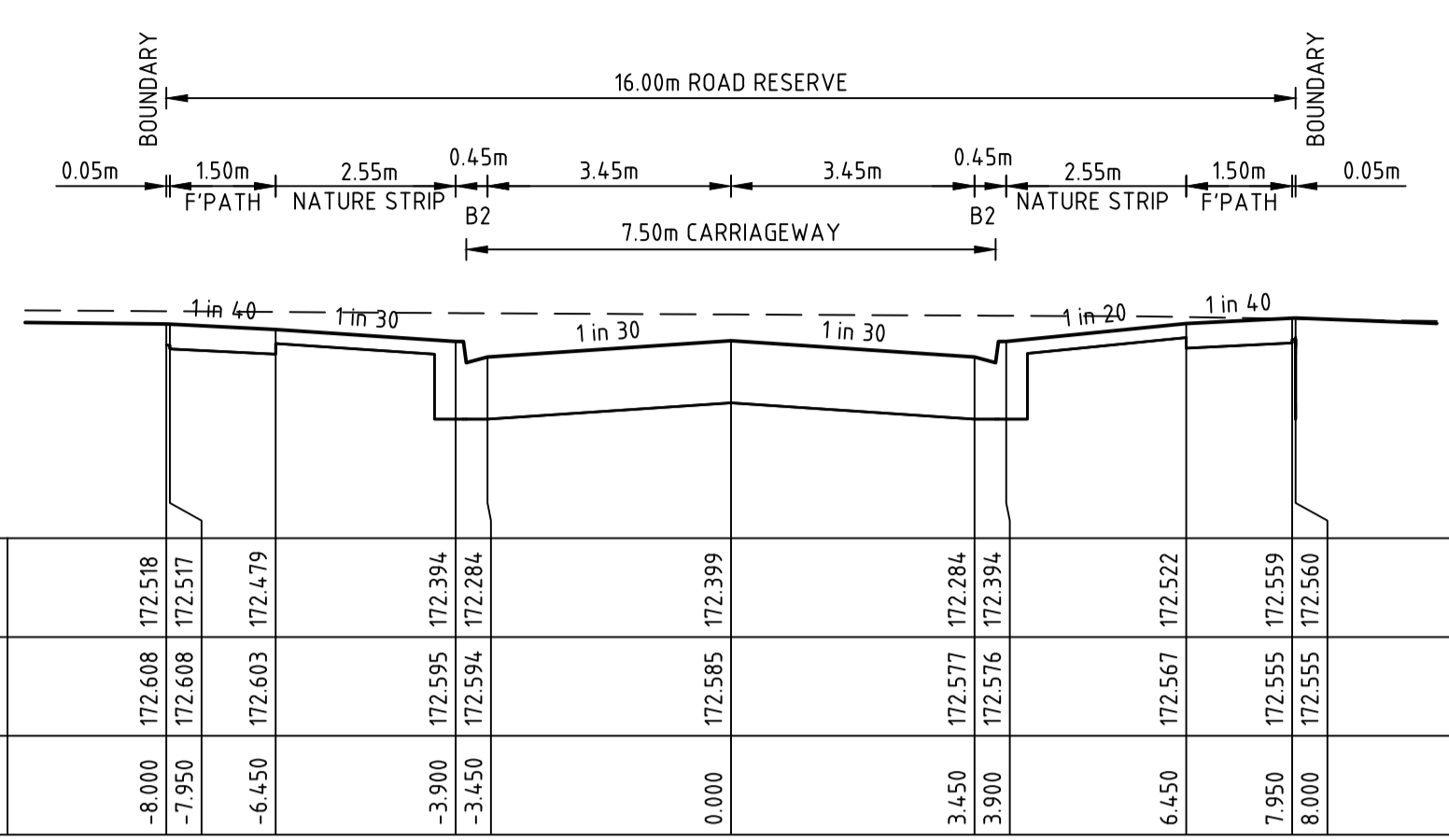
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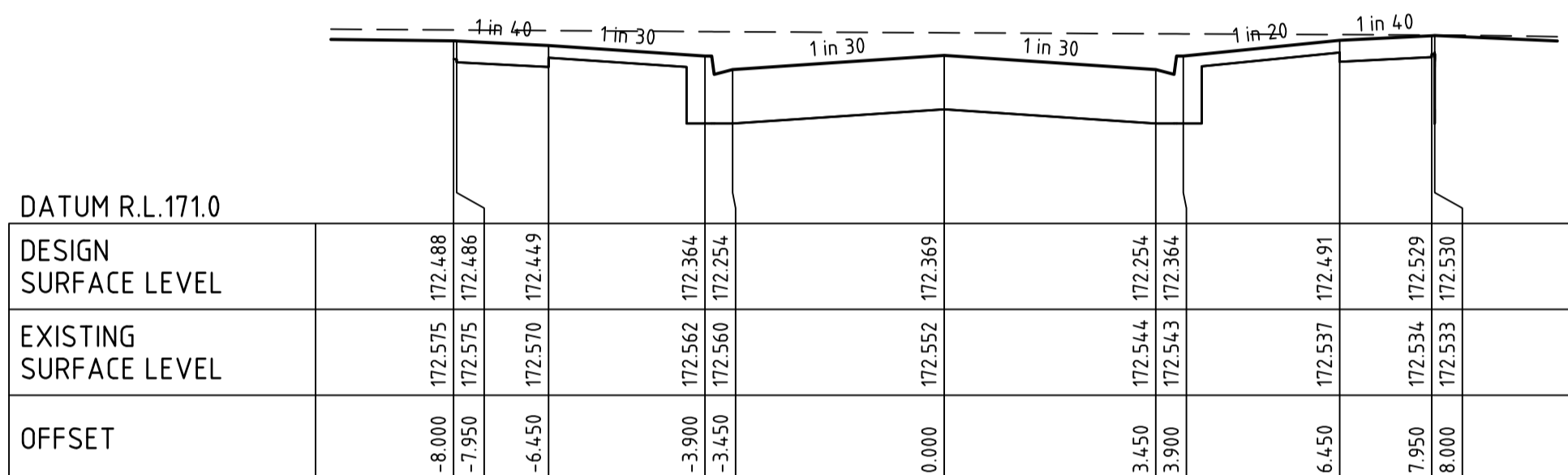
COFFEY STREET CH 40.00



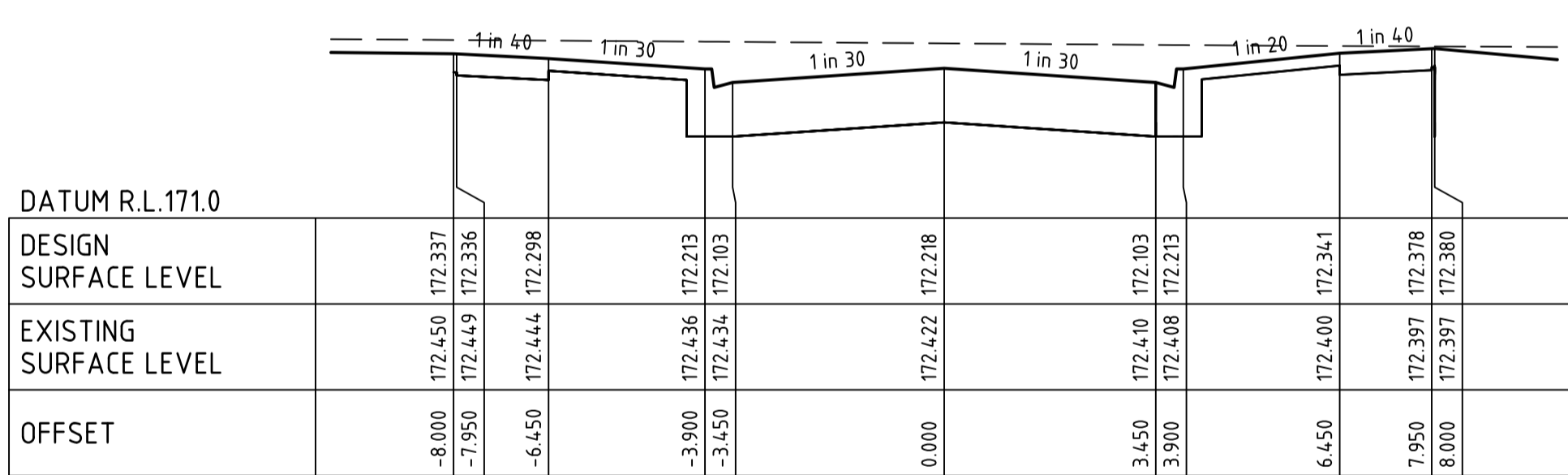
COFFEY STREET CH 37.90



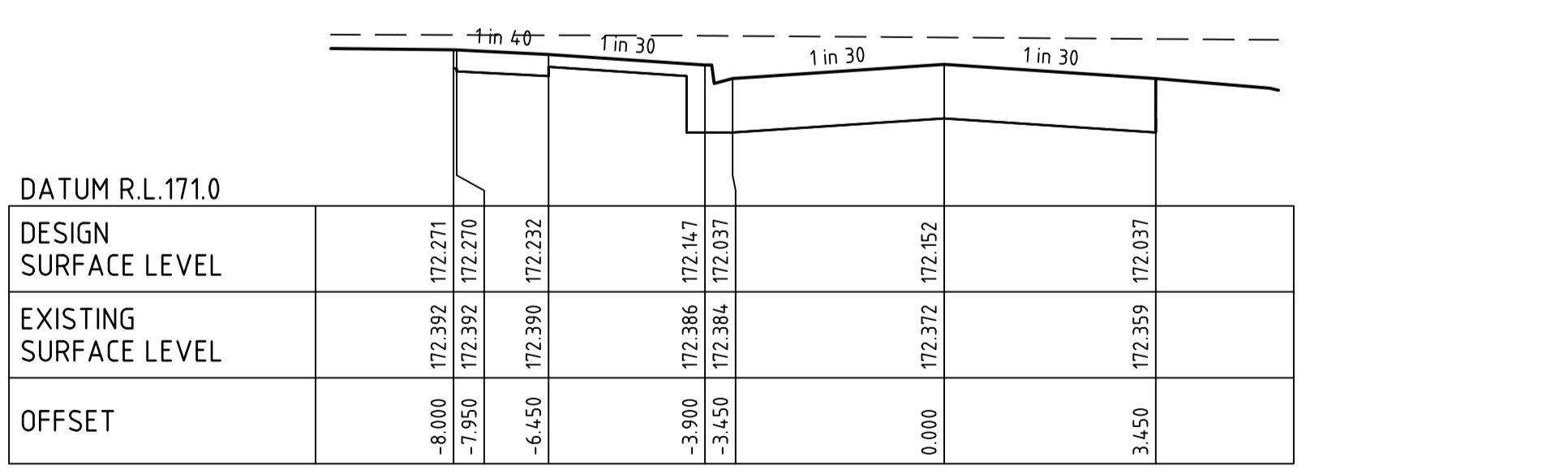
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COFFEY STREET CH 97.40



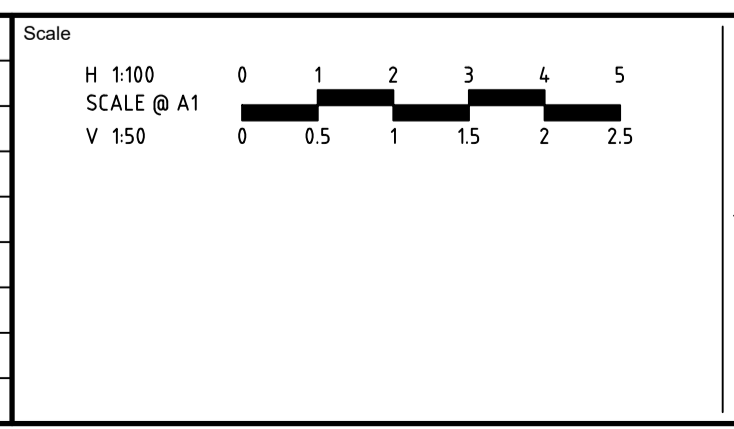
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COFFEY STREET CH 80.00

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Rev	Amendments	Approved	Date
B	UPSIZED DRAINAGE IN REAR OF FUTURE LOTS	H. O.	19/05/23
A	PRELIMINARY ISSUE	B.I.	25/11/22



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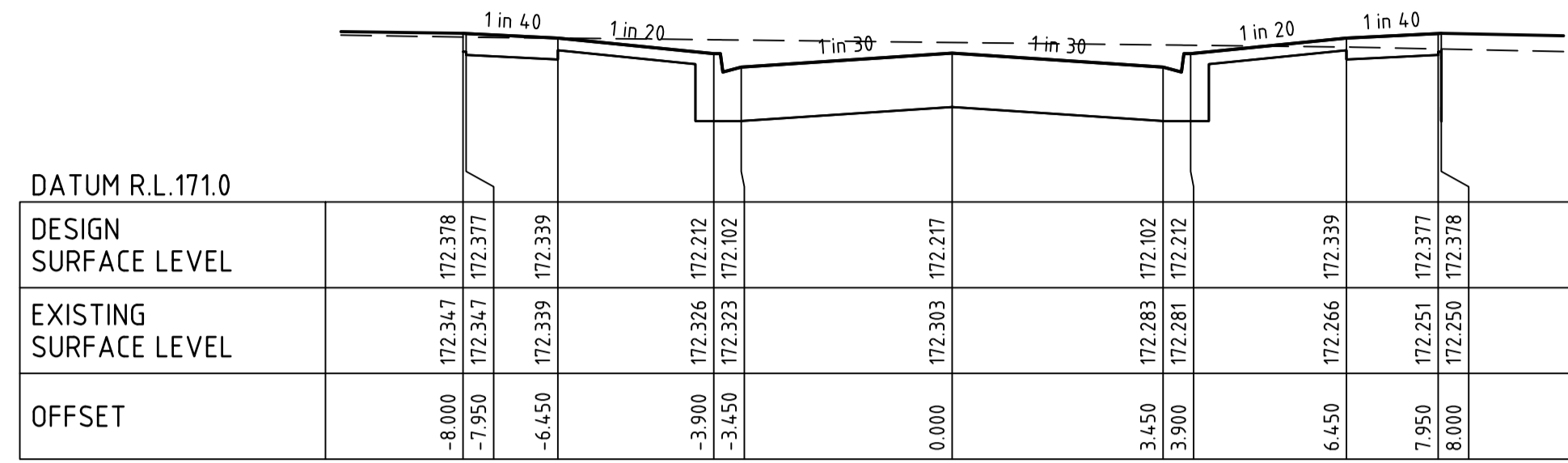
16 BRIDGE STREET BENDIGO
 VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
 spiire.com.au ABN 55 050 029 635

Designed H. OAKLEY-WARREN	Checked B. IBBS
Authorised C. CLARKE	Date MAY 2023

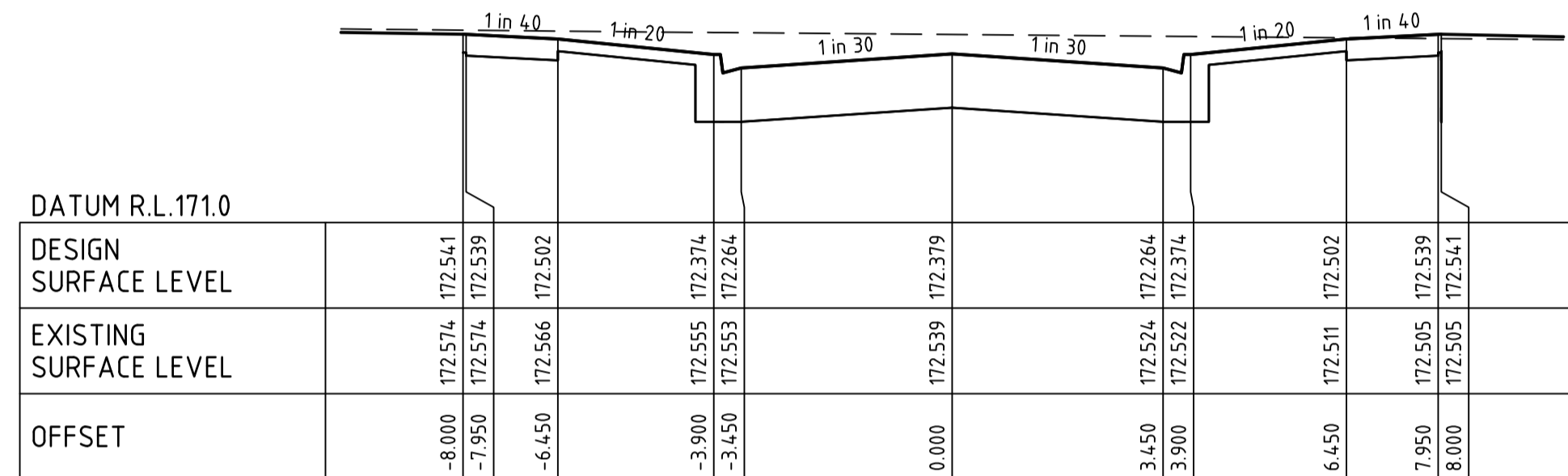
**PROVENANCE ESTATE
 STAGE 8
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 3
 CITY OF GREATER BENDIGO
 HUNTLY PROPERTY HOLDING PTY LTD**

PRELIMINARY 309101CR402 **B**

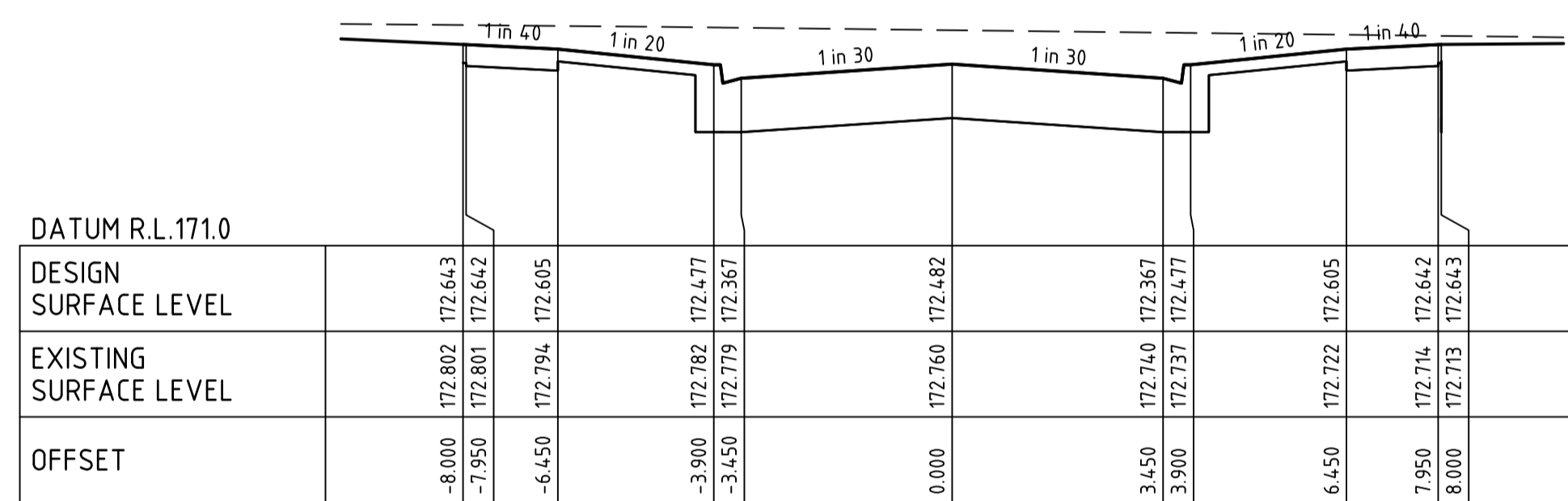
FILLING NOTE
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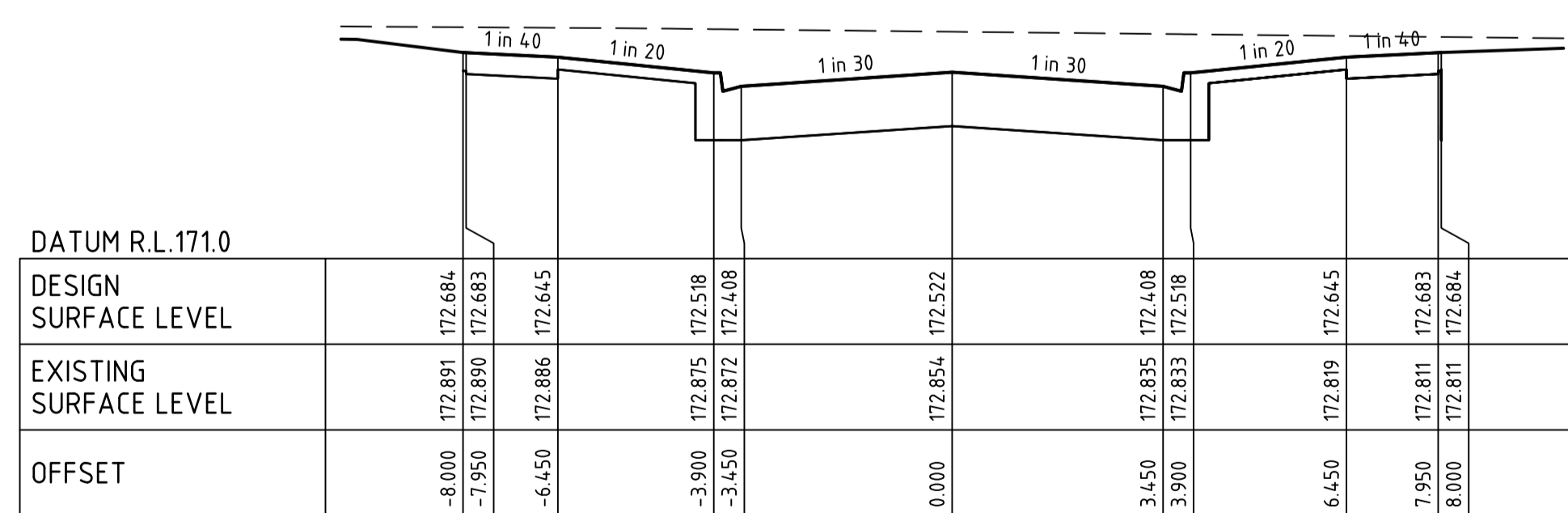
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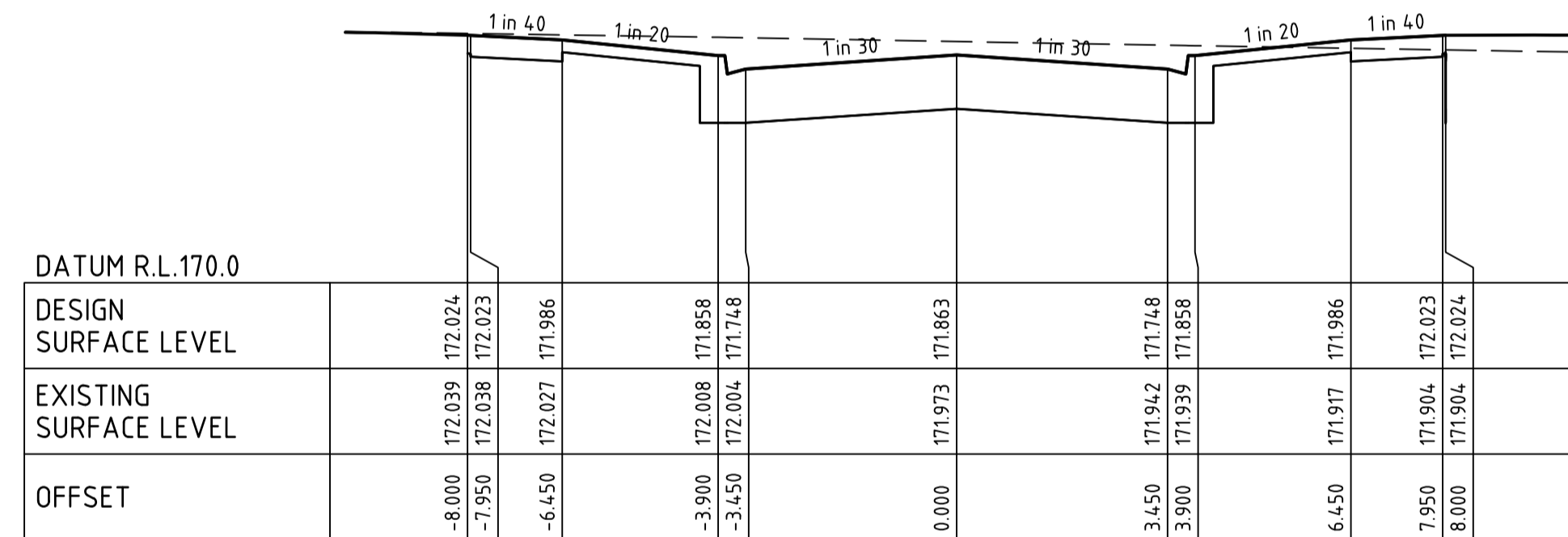
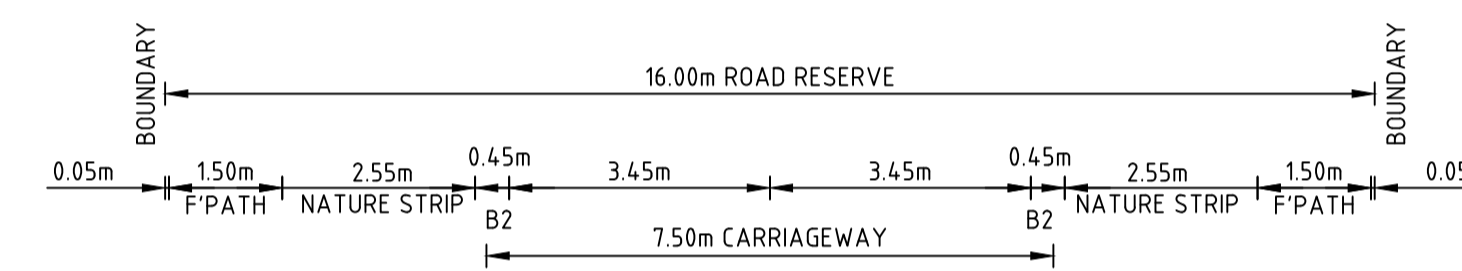
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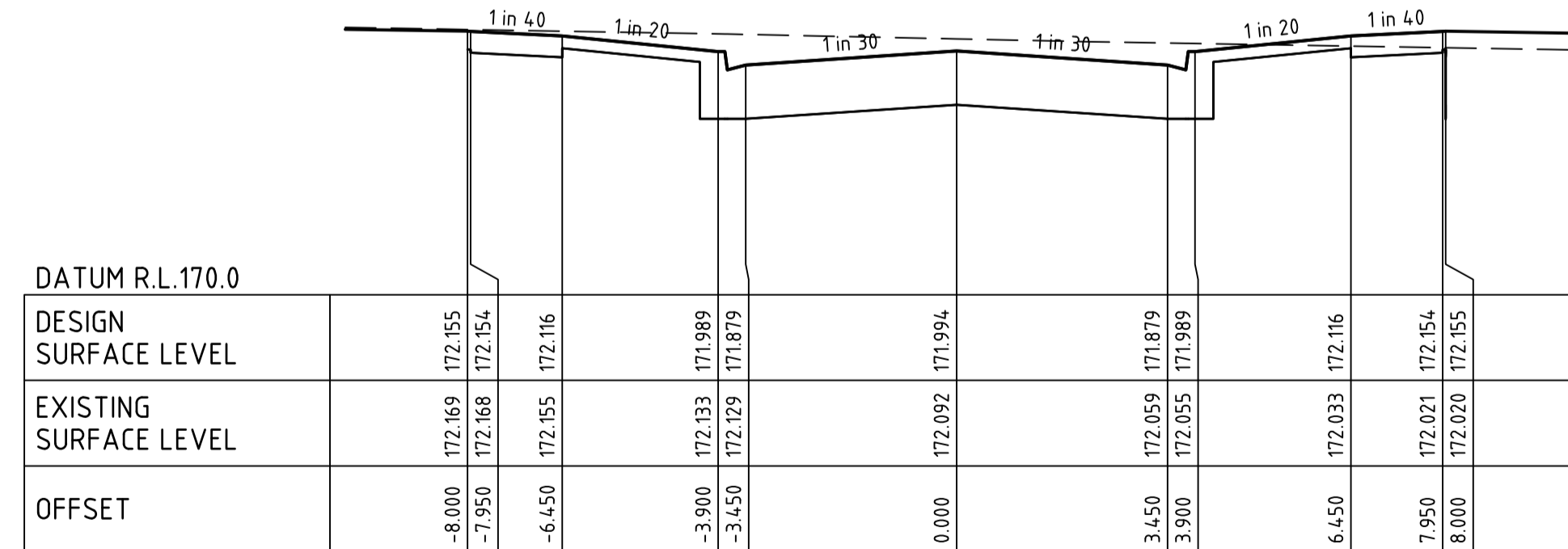
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GARRETT STREET CH 11.90



GARRETT STREET CH 91.60

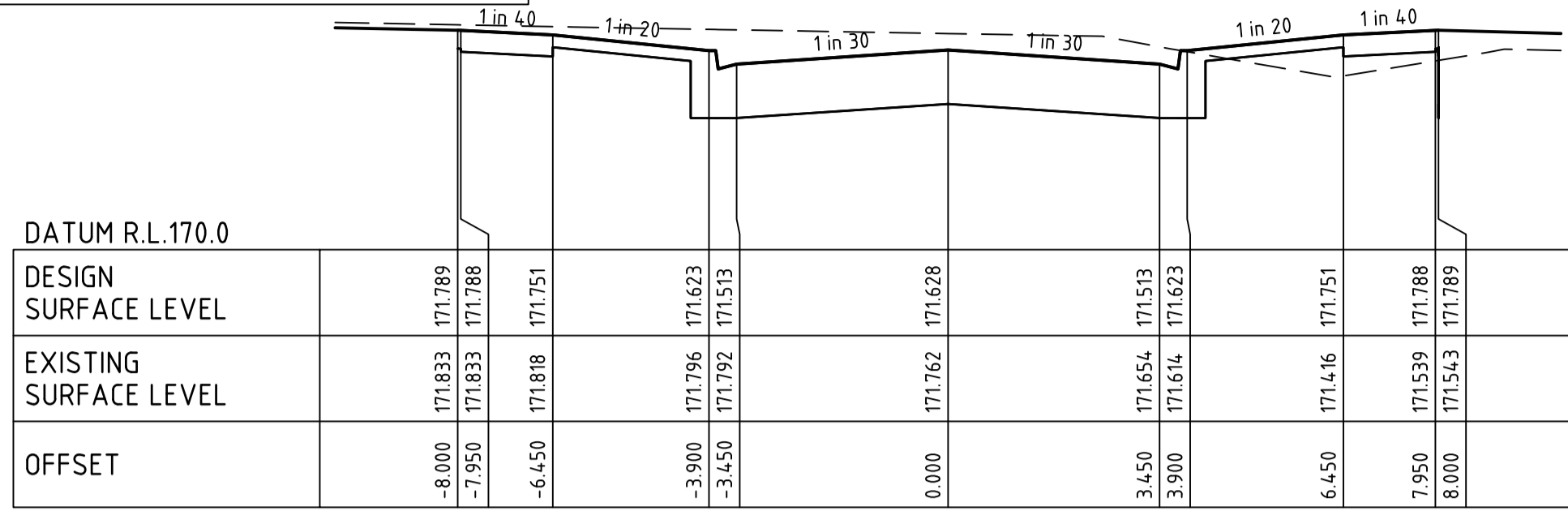


GARRETT STREET CH 80.00

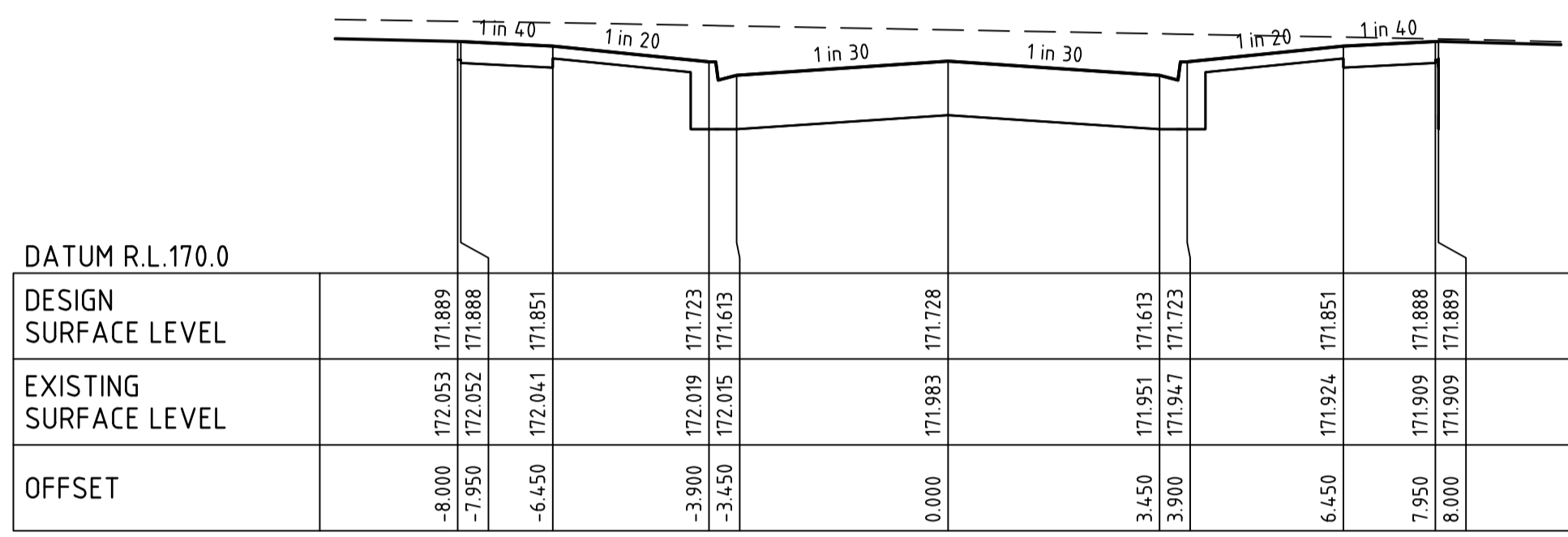
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Designed H. OAKLEY-WARREN	Checked B. IBBS
Authorised C. CLARKE	Date MAY 2023
PROVENANCE ESTATE STAGE 8 ROAD AND DRAINAGE ROAD CROSS SECTIONS - SHEET 5 CITY OF GREATER BENDIGO HUNTLY PROPERTY HOLDING PTY LTD	
PRELIMINARY Dwg No 309101CR404 Rev B	

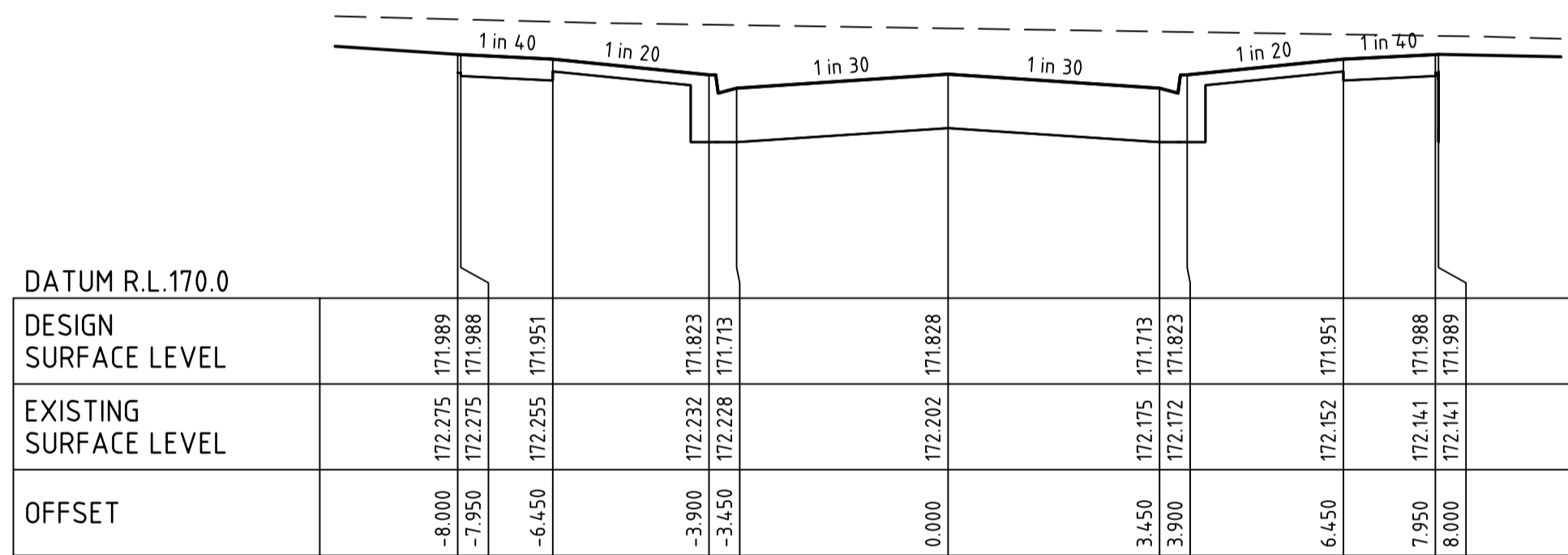
FILLING NOTE
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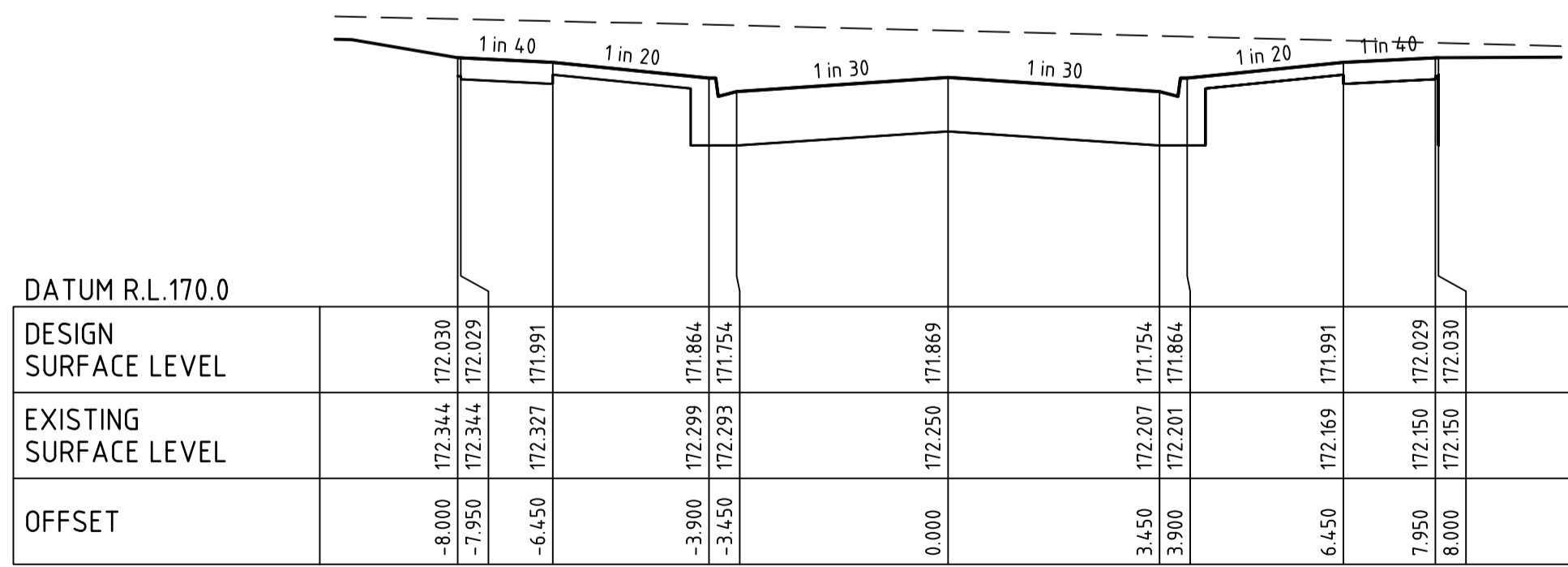
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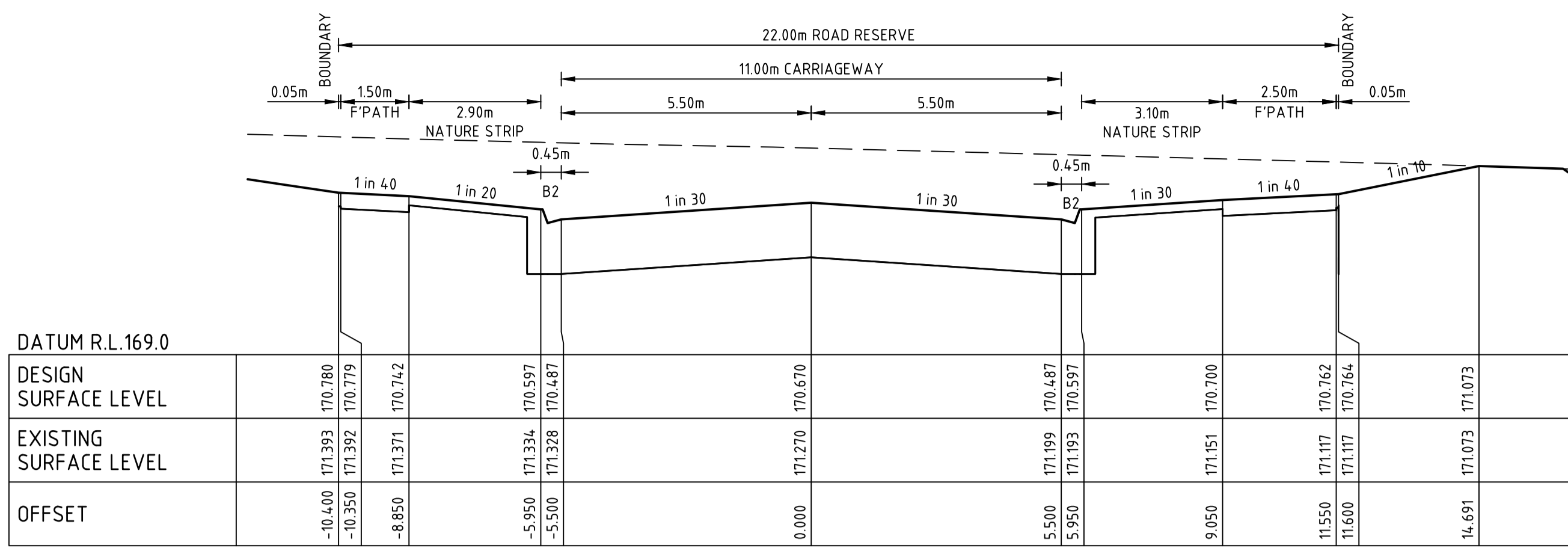
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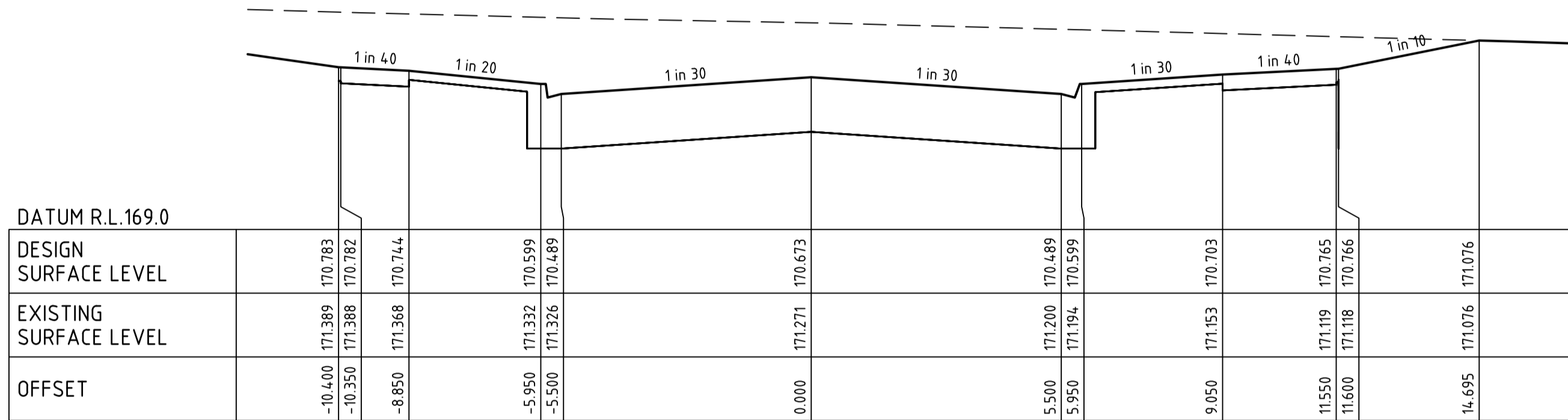
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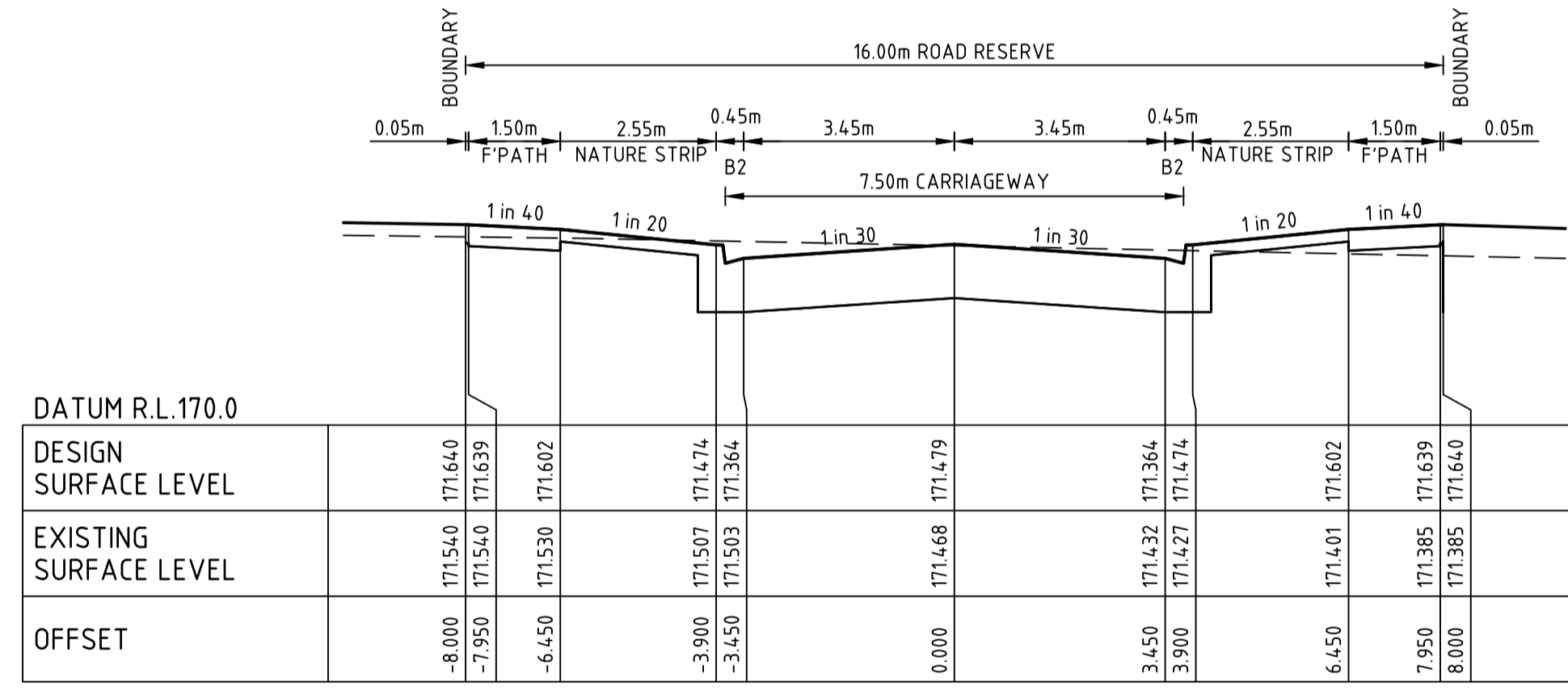
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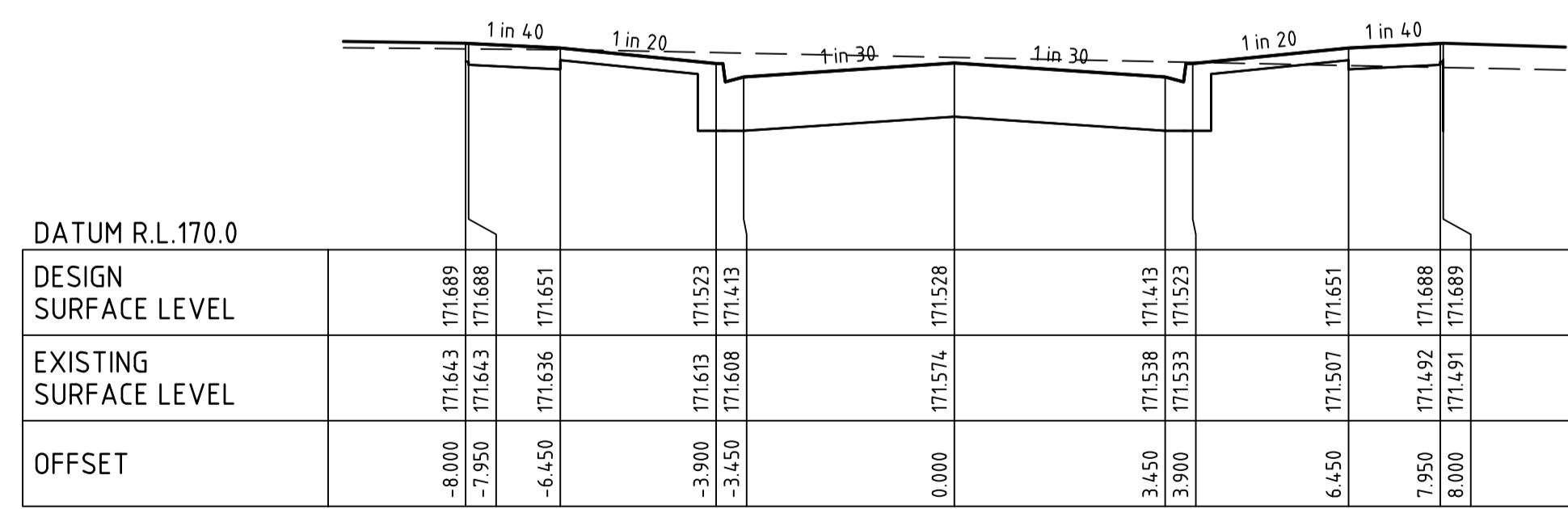
FUTURE BUNDUK BOULEVARD CH 320.00



FUTURE BUNDUK BOULEVARD CH 318.83



DYMOCK STREET CH 89.60



DYMOCK STREET CH 80.00

file name: 309101CR405.dwg, layout: 1, scale: A1, created by: H. O. Oakley-Warren, date: 19/05/2023 10:02 AM, sheet: 12 of 24 sheets
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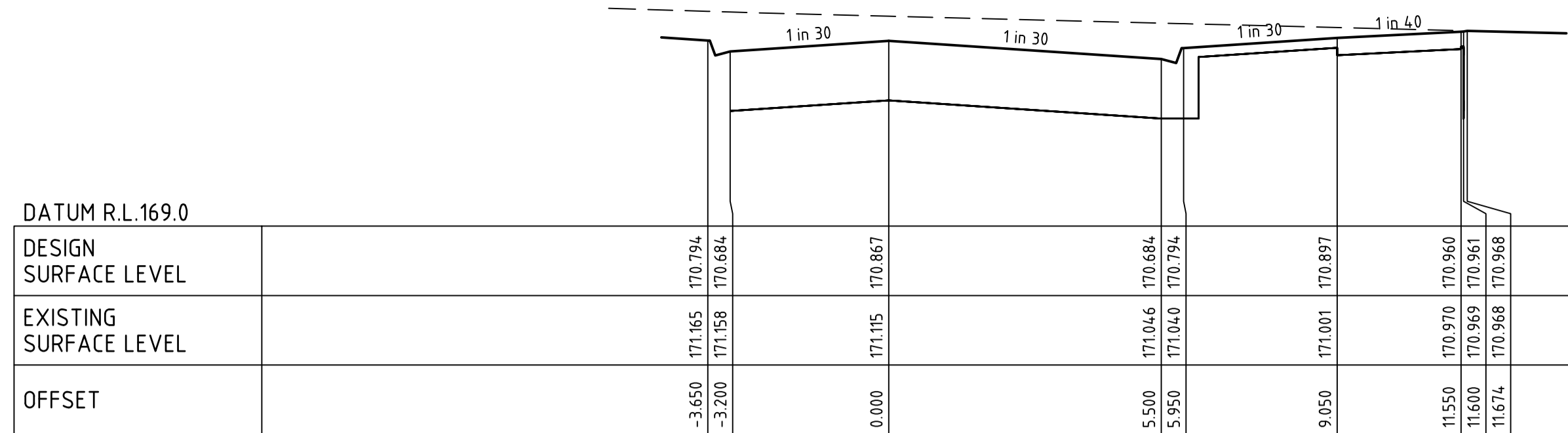
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Rev	B UPSIZED DRAINAGE IN REAR OF FUTURE LOTS A PRELIMINARY ISSUE
Rev	Amendments
	H. O. 19/05/23 B.I. 25/11/22 Approved Date



Designed
H. OAKLEY-WARREN
Checked
B. IBBS
Authorised
C. CLARKE
Date
MAY 2023

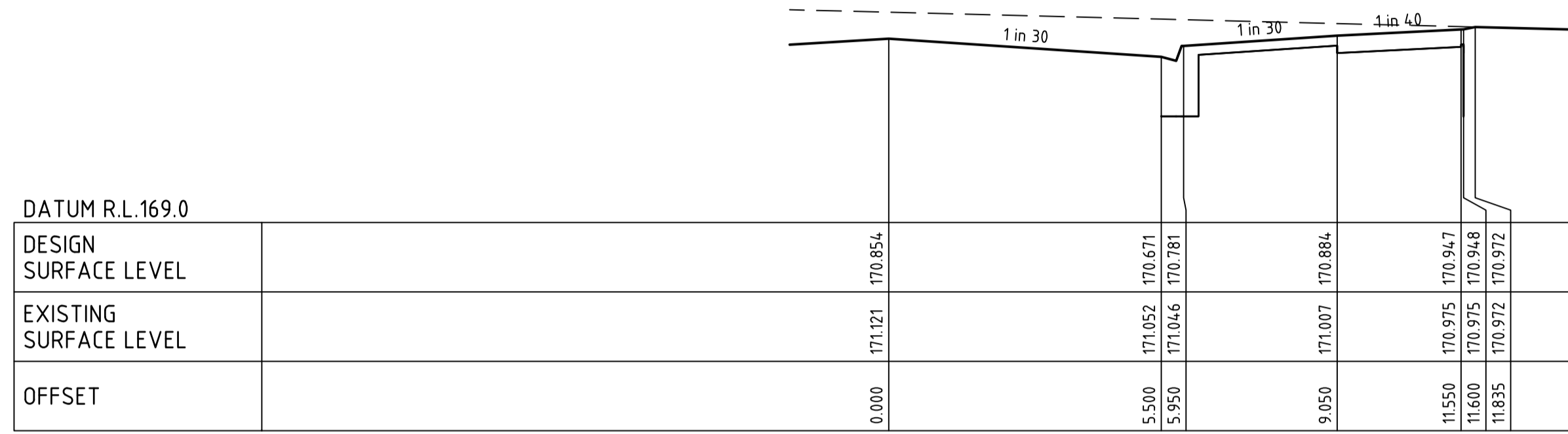
**PROVENANCE ESTATE
 STAGE 8
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 6
 CITY OF GREATER BENDIGO
 HUNTLY PROPERTY HOLDING PTY LTD**

PRELIMINARY Dwg No 309101CR405 Rev B



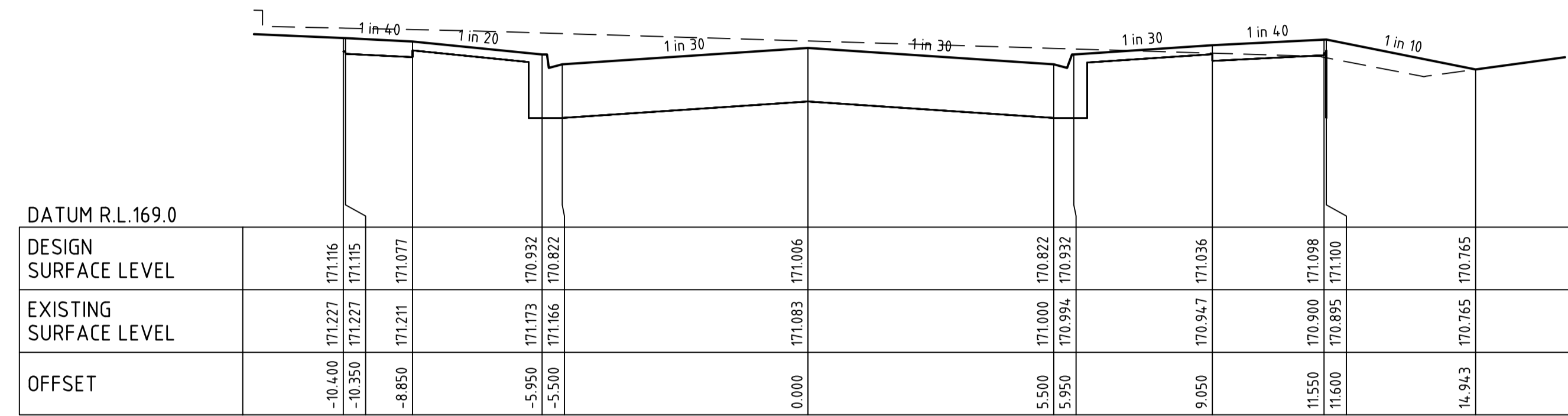
FUTURE BUNDUK BOULEVARD

CH 362.52



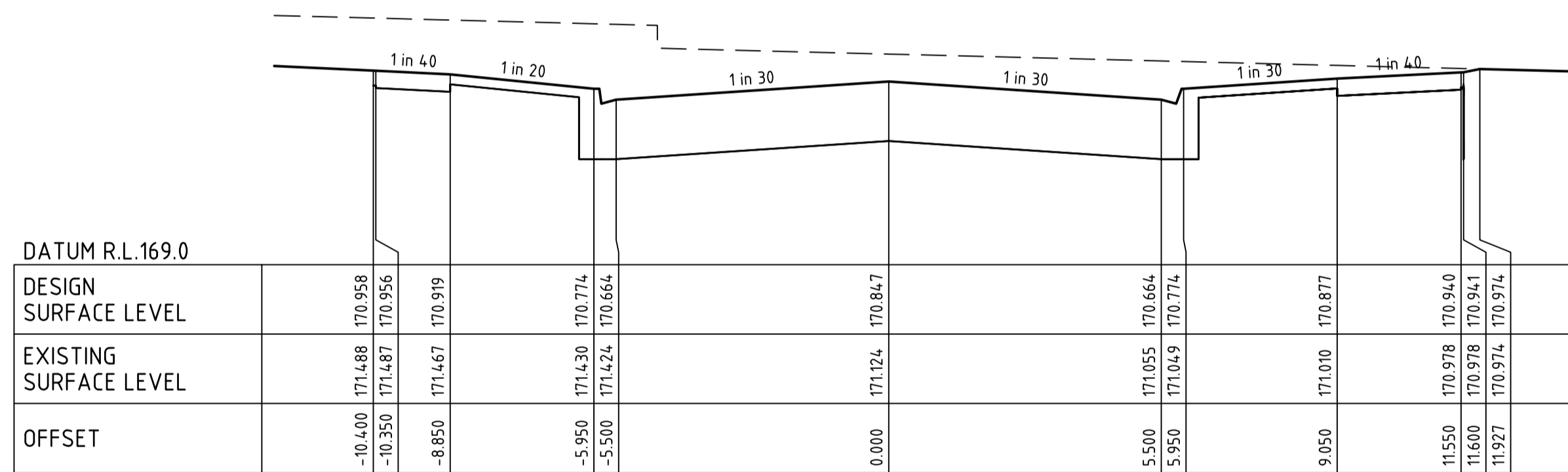
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CH 360.00



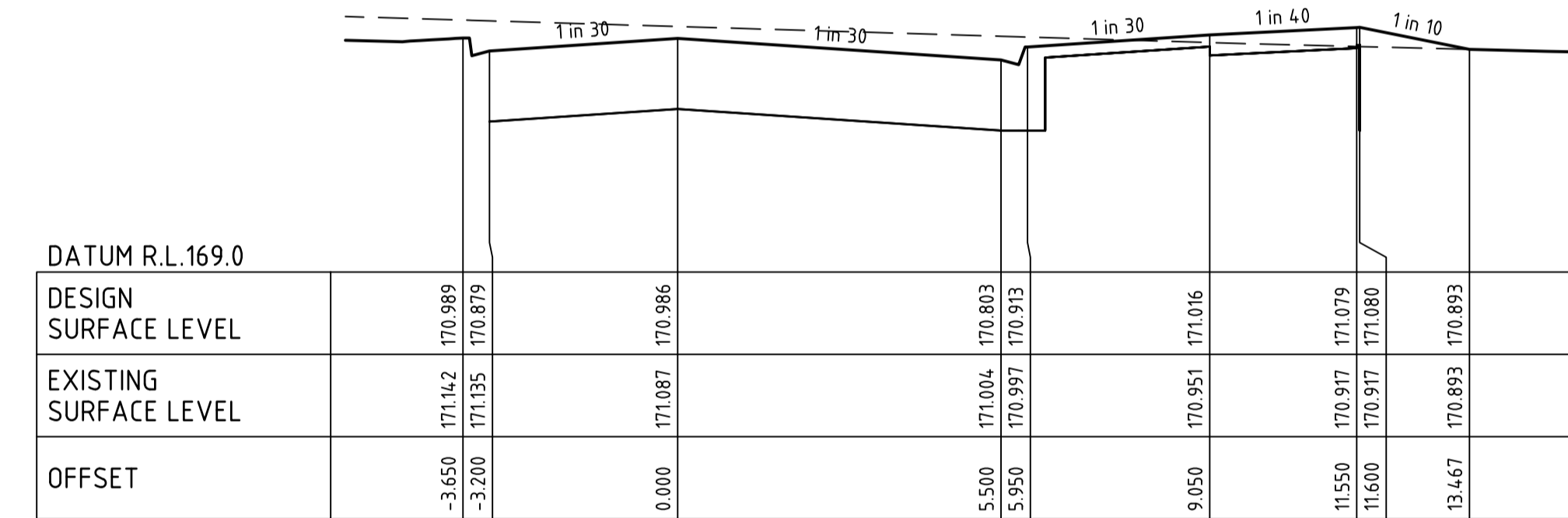
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CH 390.28



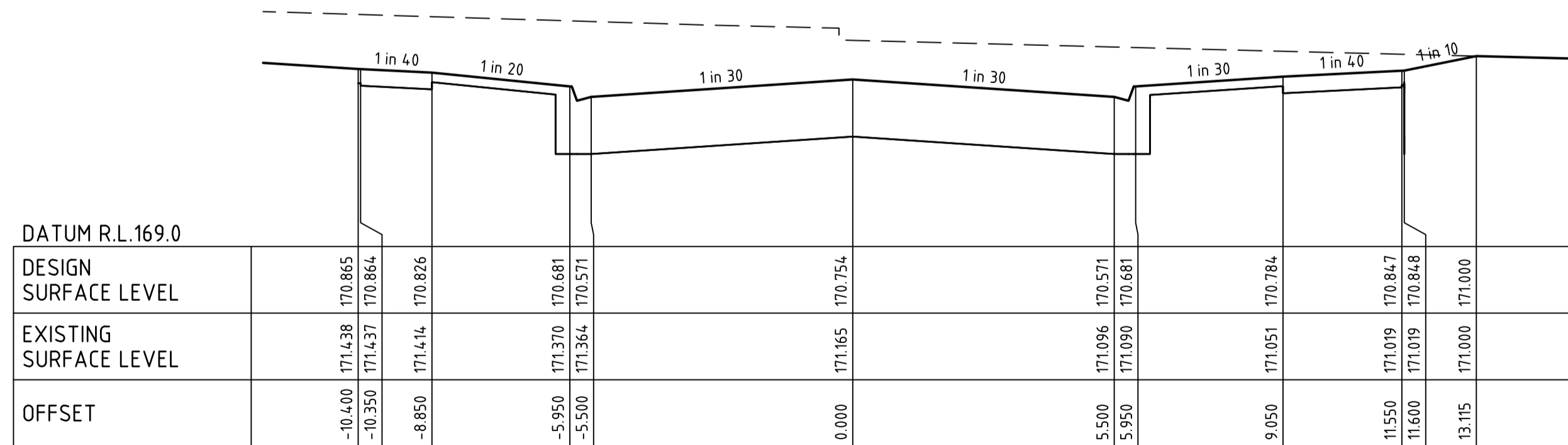
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CH 358.56



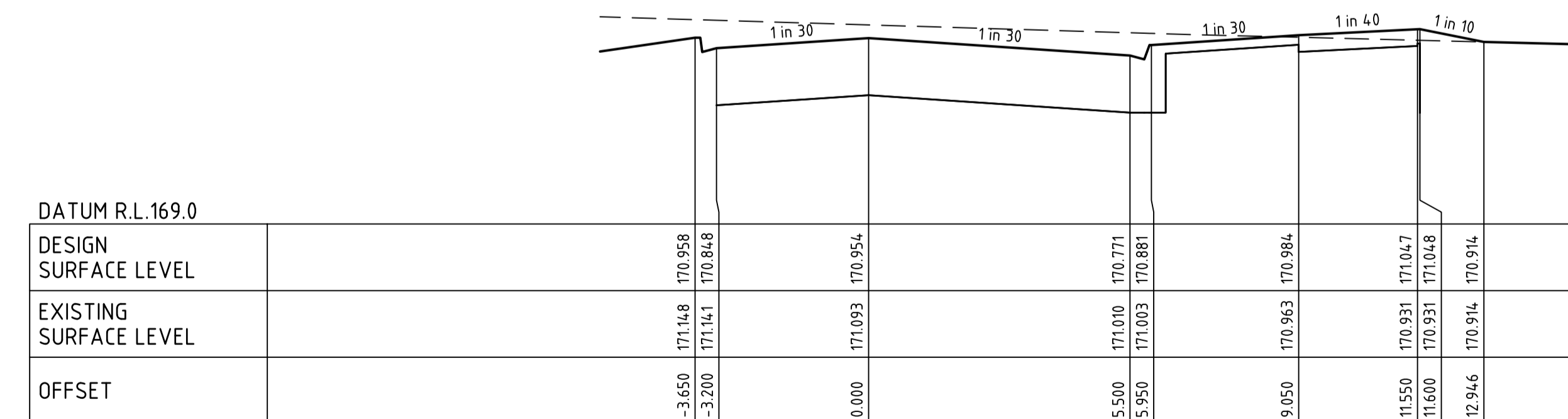
FUTURE BUNDUK BOULEVARD

CH 386.32



FUTURE BUNDUK BOULEVARD

CH 340.00

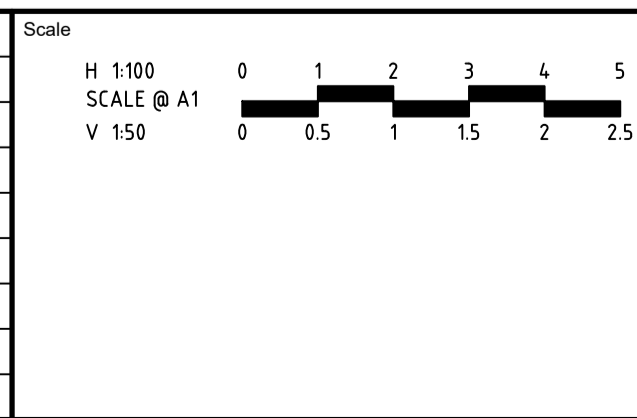


FUTURE BUNDUK BOULEVARD

CH 380.00

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Rev	B	UPSIZED DRAINAGE IN REAR OF FUTURE LOTS	H. O.	19/05/23
	A	PRELIMINARY ISSUE	B.I.	25/11/22
		Amendments	Approved	Date



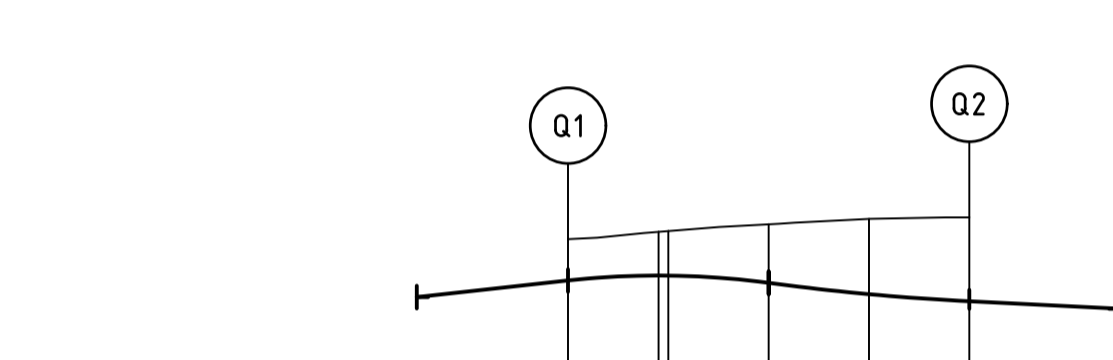
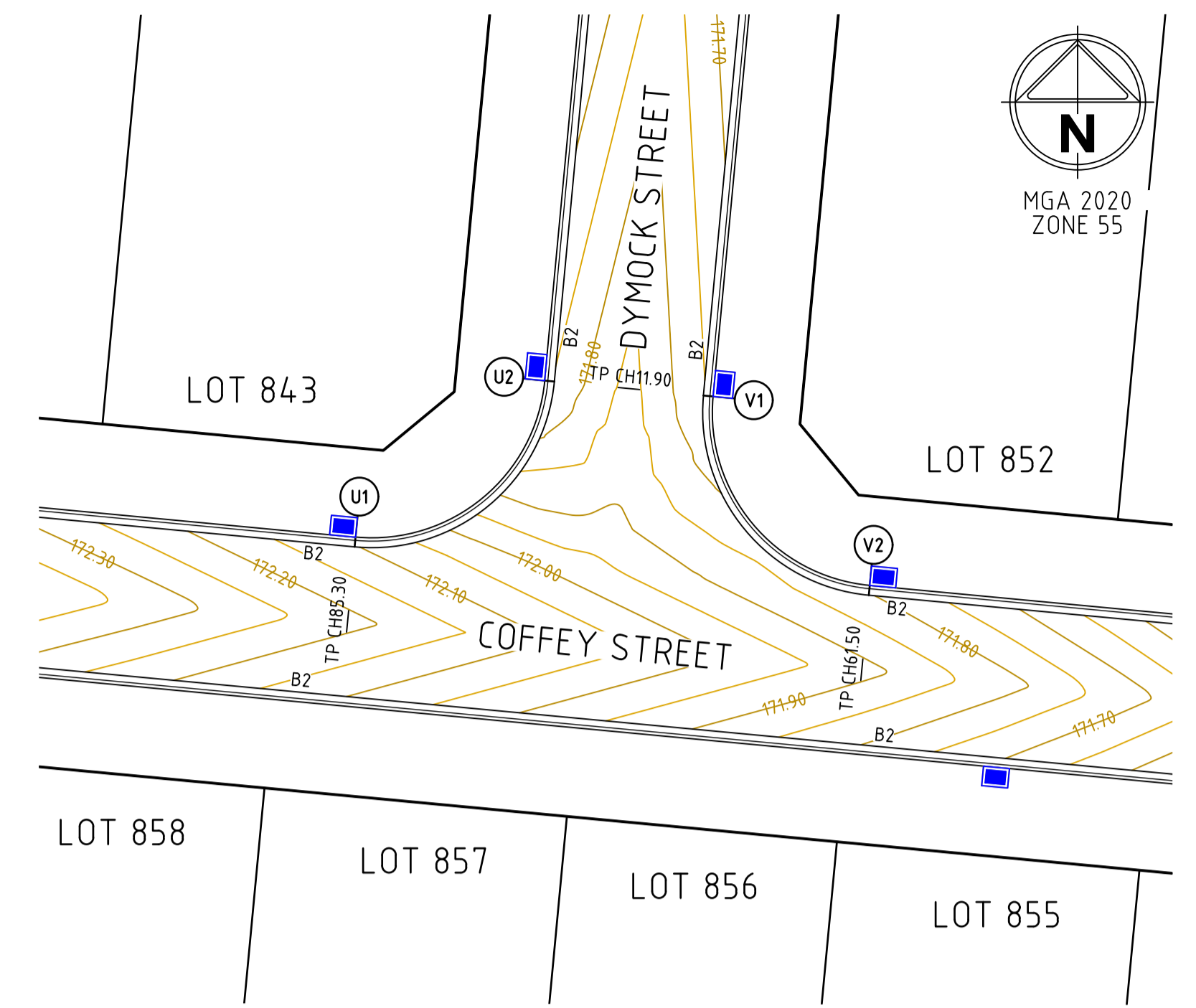
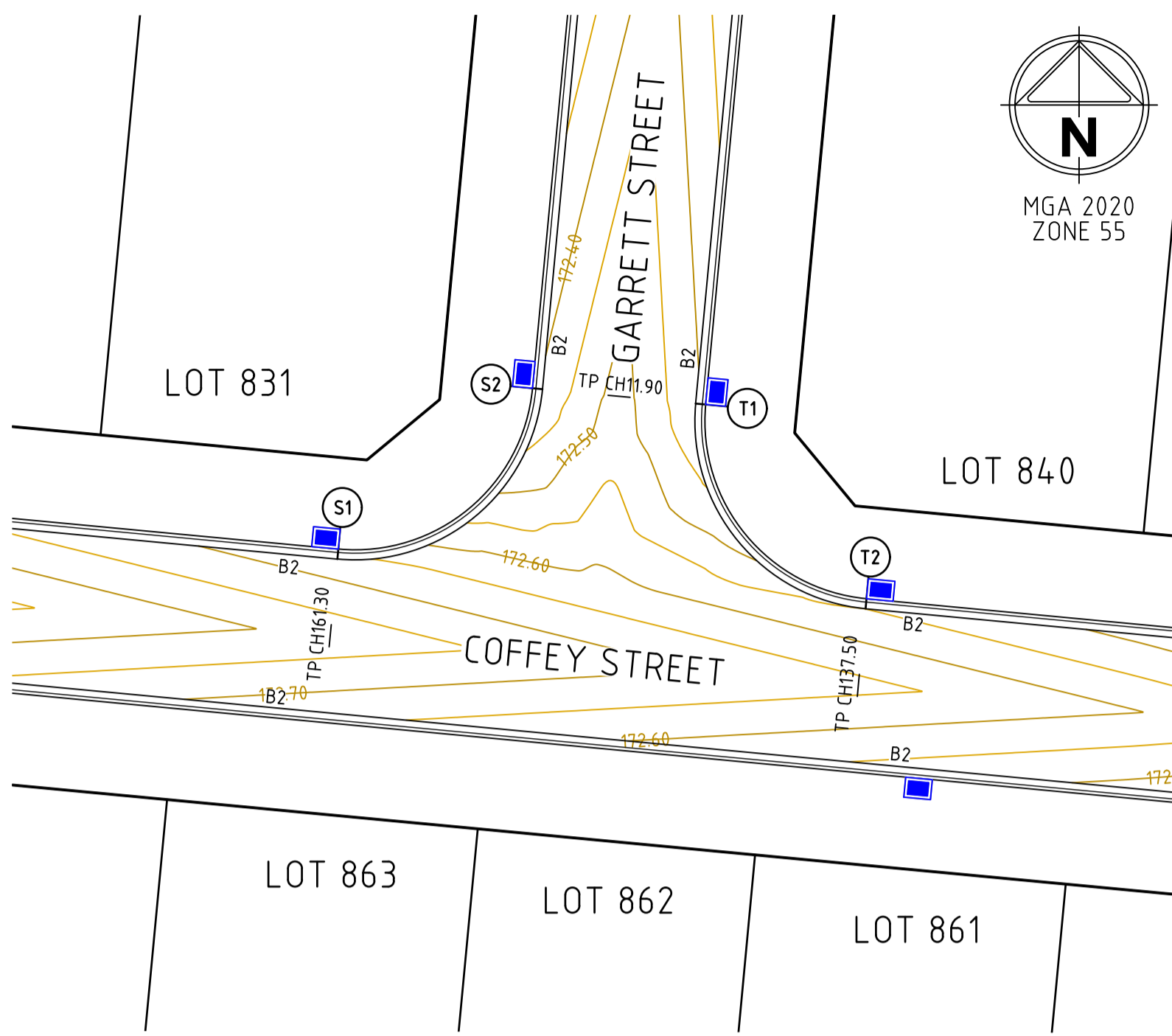
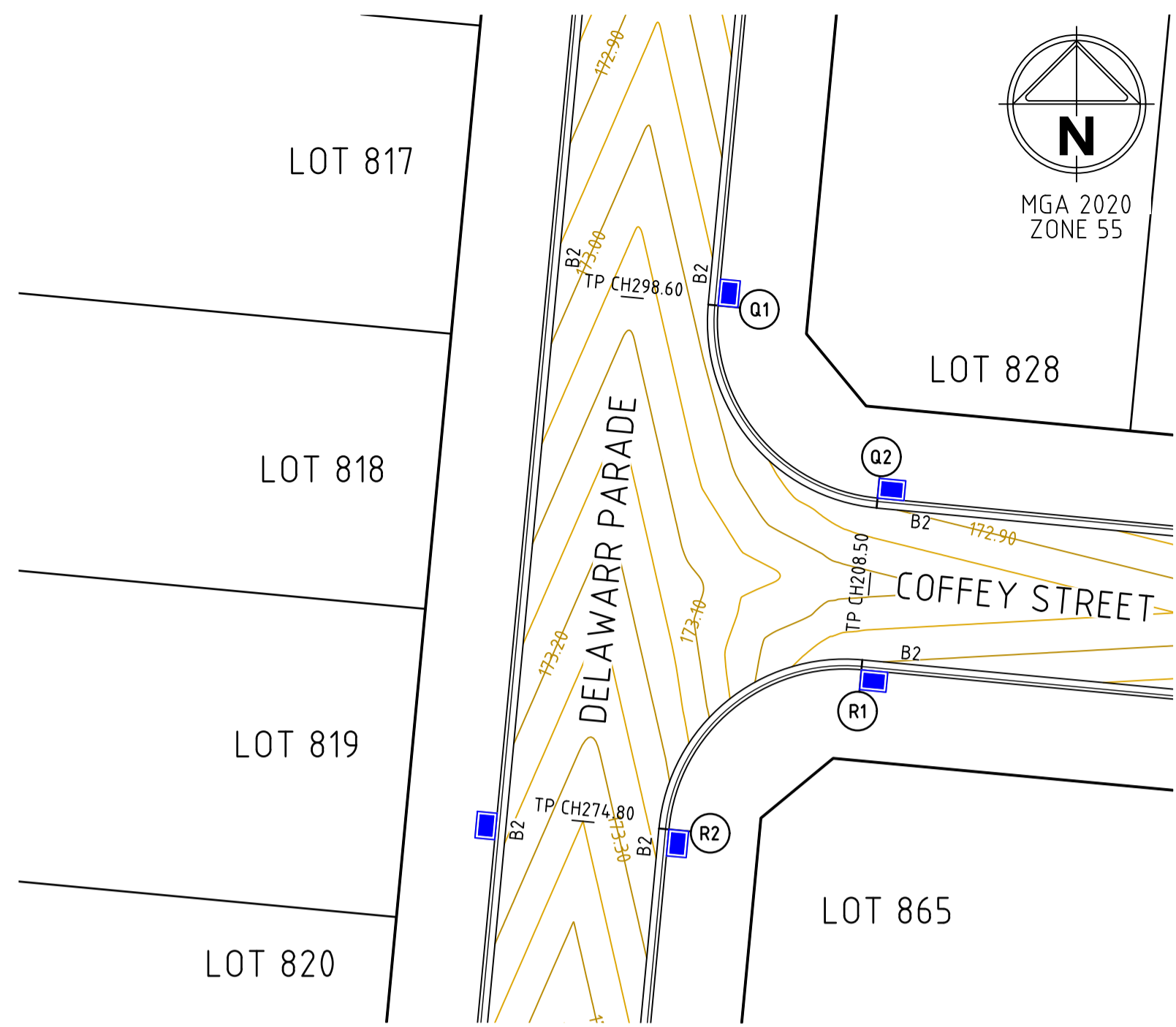
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 16 BRIDGE STREET BENDIGO
 VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
 spiire.com.au ABN 55 050 029 635

Designed	HARRY. OAKLEY-WARREN	Checked	B. IBBS
Authorised	C. CLARKE	Date	MAY 2023

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

PRELIMINARY Drg No **309101CR406** Rev **B**



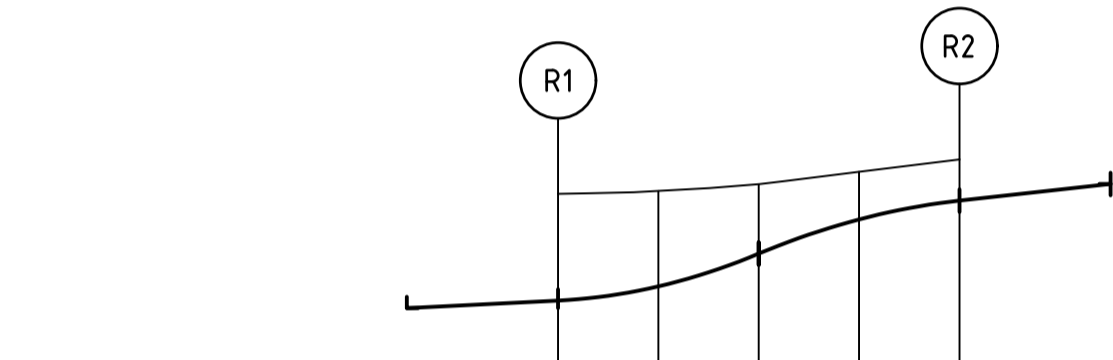
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DESIGN GRADELINE
DATUM RL 172.0

DESIGN LEVEL	CHAINAGE
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172.990	2.999
172.990	3.318
172.966	6.637
172.928	9.955
172.905	13.273

ALIGNMENT Q

POINT NO	EASTING	NORTHING	RL
Q1	264075.635	5939927.302	172.973
1/4	264075.973	5939924.022	172.990
1/2	264077.540	5939921.122	172.966
3/4	264080.098	5939919.042	172.928
Q2	264083.258	5939918.099	172.905

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
Q1-Q2	8.450	13.273	11.950	2.475	-0.643



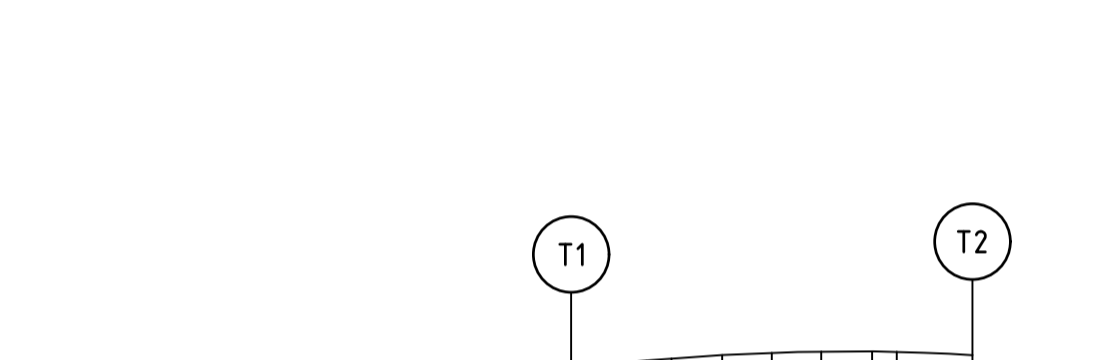
VERTICAL GEOMETRY
DESIGN GRADELINE
DATUM RL 172.0

DESIGN LEVEL	CHAINAGE
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172.952	3.318
173.060	6.637
173.173	9.955
173.235	13.273

ALIGNMENT R

POINT NO	EASTING	NORTHING	RL
R1	264082.612	5939911.229	172.905
1/4	264079.333	5939910.891	172.952
1/2	264076.432	5939909.324	173.060
3/4	264074.352	5939906.766	173.173
R2	264073.409	5939903.606	173.235

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
R1-R2	8.450	13.273	11.950	2.475	-0.643



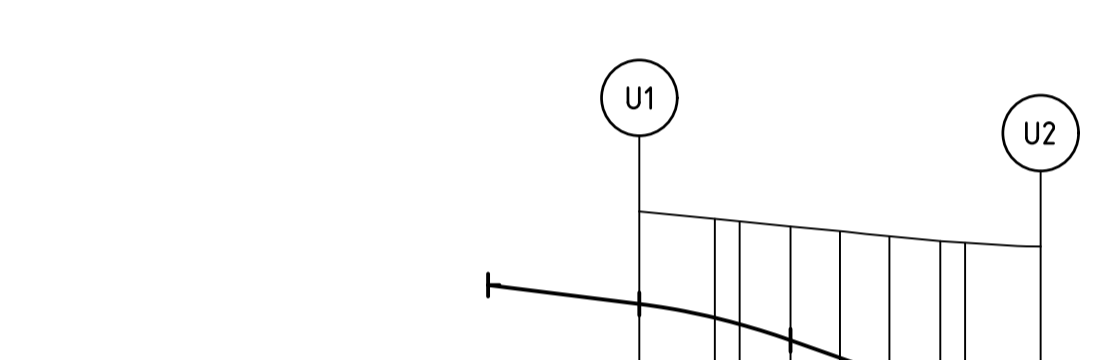
VERTICAL GEOMETRY
DESIGN GRADELINE
DATUM RL 171.0

DESIGN LEVEL	CHAINAGE
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172.444	3.318
172.464	5.000
172.495	6.637
172.506	8.273
172.525	9.955
172.532	10.773
172.550	13.273

ALIGNMENT T

POINT NO	EASTING	NORTHING	RL
T1	264146.324	5939920.661	172.408
1/4	264146.662	5939917.382	172.444
1/2	264148.229	5939914.481	172.485
3/4	264150.787	5939912.401	172.525
T2	264153.946	5939911.458	172.550

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
T1-T2	8.450	13.273	11.950	2.475	-0.643



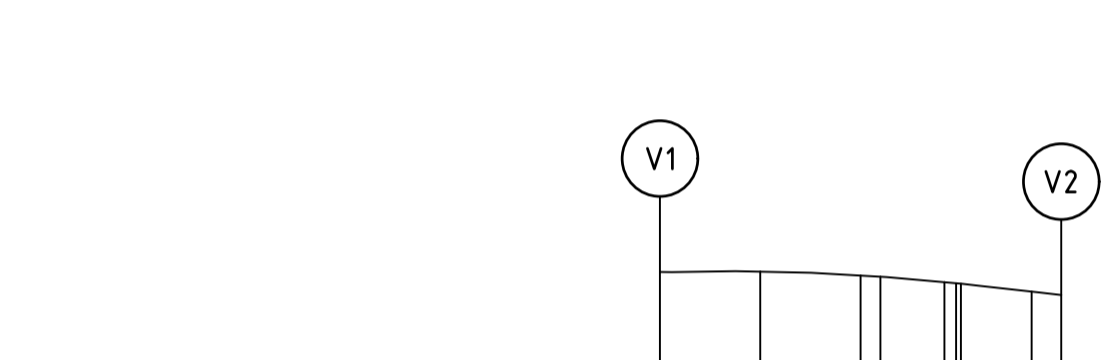
VERTICAL GEOMETRY
DESIGN GRADELINE
DATUM RL 170.0

DESIGN LEVEL	CHAINAGE
172.103	0.000
172.058	2.500
172.037	3.318
171.983	5.000
171.925	6.637
171.867	8.273
171.815	9.955
171.794	10.773
171.754	13.273

ALIGNMENT U

POINT NO	EASTING	NORTHING	RL
U1	264205.917	5939906.575	172.103
1/4	264209.197	5939906.913	172.037
1/2	264212.098	5939908.481	171.925
3/4	264214.178	5939911.039	171.815
U2	264215.121	5939914.198	171.754

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
U1-U2	8.450	13.273	11.950	2.475	-0.643



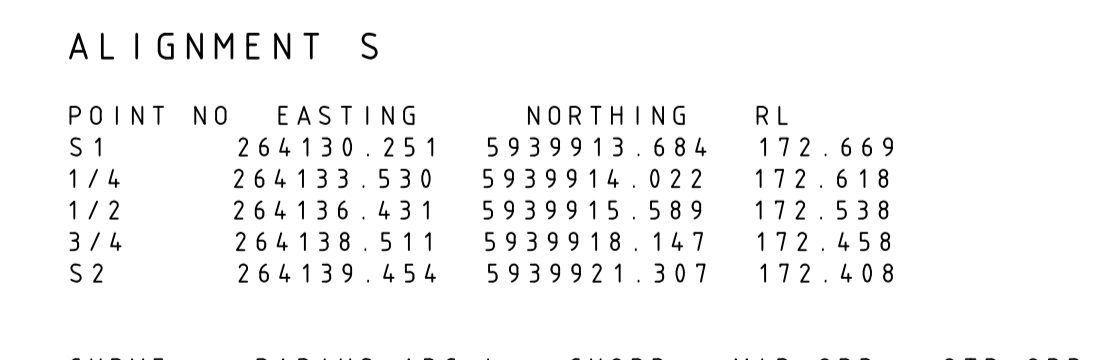
VERTICAL GEOMETRY
DESIGN GRADELINE
DATUM RL 170.0

DESIGN LEVEL	CHAINAGE
171.754	0.000
171.787	3.318
171.820	6.637
171.826	7.294
171.837	9.406
171.837	9.794
171.836	9.955
171.817	12.294
171.804	13.273

ALIGNMENT V

POINT NO	EASTING	NORTHING	RL
V1	264221.991	5939913.553	171.754
1/4	264222.328	5939910.273	171.787
1/2	264223.896	5939907.373	171.820
3/4	264226.454	5939905.292	171.836
V2	264229.613	5939904.349	171.804

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
V1-V2	8.450	13.273	11.950	2.475	-0.643



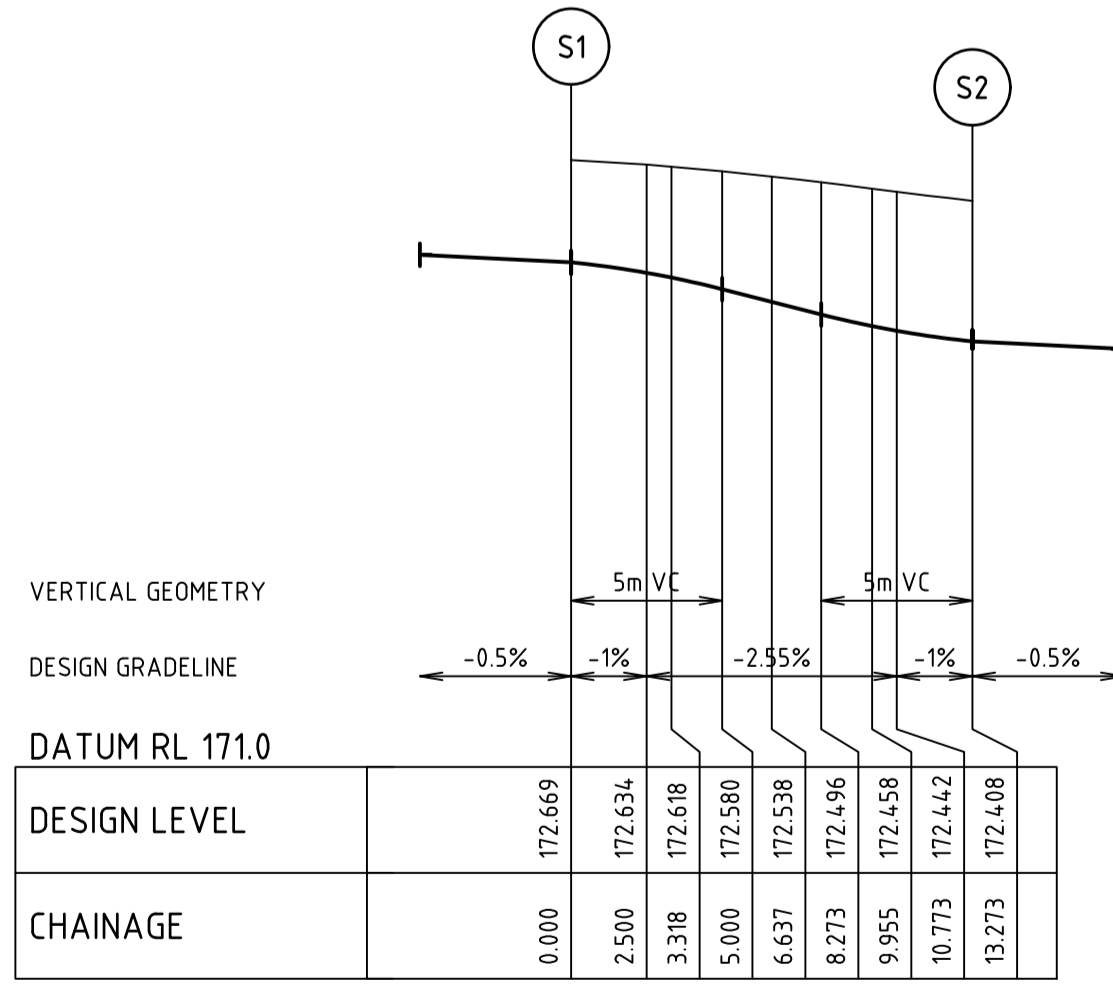
VERTICAL GEOMETRY
DESIGN GRADELINE
DATUM RL 171.0

DESIGN LEVEL	CHAINAGE
172.669	0.000
172.634	2.500
172.618	3.318
172.580	5.000
172.538	6.637
172.496	8.273
172.458	9.955
172.442	10.773
172.408	13.273

ALIGNMENT S

POINT NO	EASTING	NORTHING	RL
S1	264130.251	5939913.684	172.669
1/4	264133.530	5939914.022	172.618
1/2	264136.431	5939915.589	172.538
3/4	264138.511	5939918.147	172.458
S2	264139.454	5939921.307	172.408

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
S1-S2	8.450	13.273	11.950	2.475	-0.643



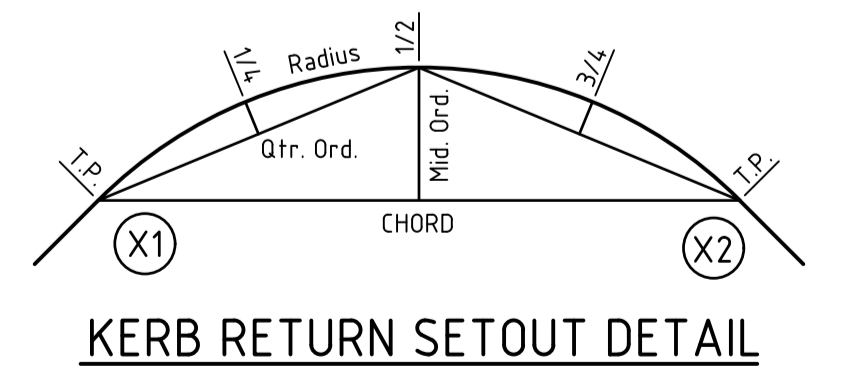
VERTICAL GEOMETRY
DESIGN GRADELINE
DATUM RL 171.0

DESIGN LEVEL	CHAINAGE
172.669	0.000
172.634	2.500
172.618	3.318
172.580	5.000
172.538	6.637
172.496	8.273
172.458	9.955
172.442	10.773
172.408	13.273

ALIGNMENT S

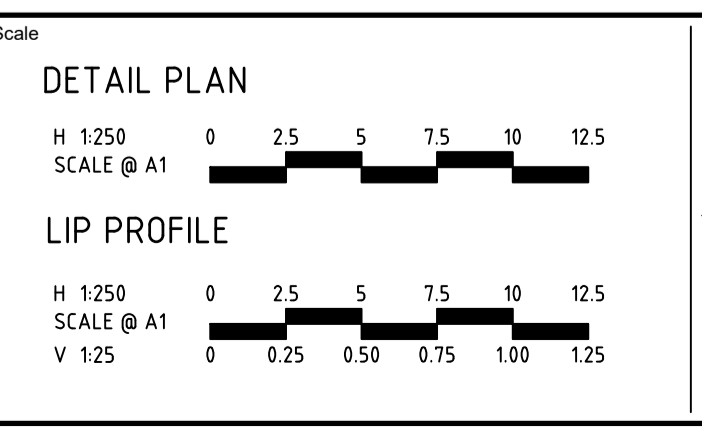
POINT NO	EASTING	NORTHING	RL
S1	264130.251	5939913.684	172.669
1/4	264133.530	5939914.022	172.618
1/2	264136.431	5939915.589	172.538
3/4	264138.511	5939918.147	172.458
S2	264139.454	5939921.307	172.408

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
S1-S2	8.450	13.273	11.950	2.475	-0.643



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Rev	Description	Approved	Date
B	UPSIZED DRAINAGE IN REAR OF FUTURE LOTS	H. O.	19/05/23
A	PRELIMINARY ISSUE	B.I.	25/11/22
	Amendments		



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16 BRIDGE STREET BENDIGO

 VICTORIA 3550 AUSTRALIA T 61 3 5448 2500

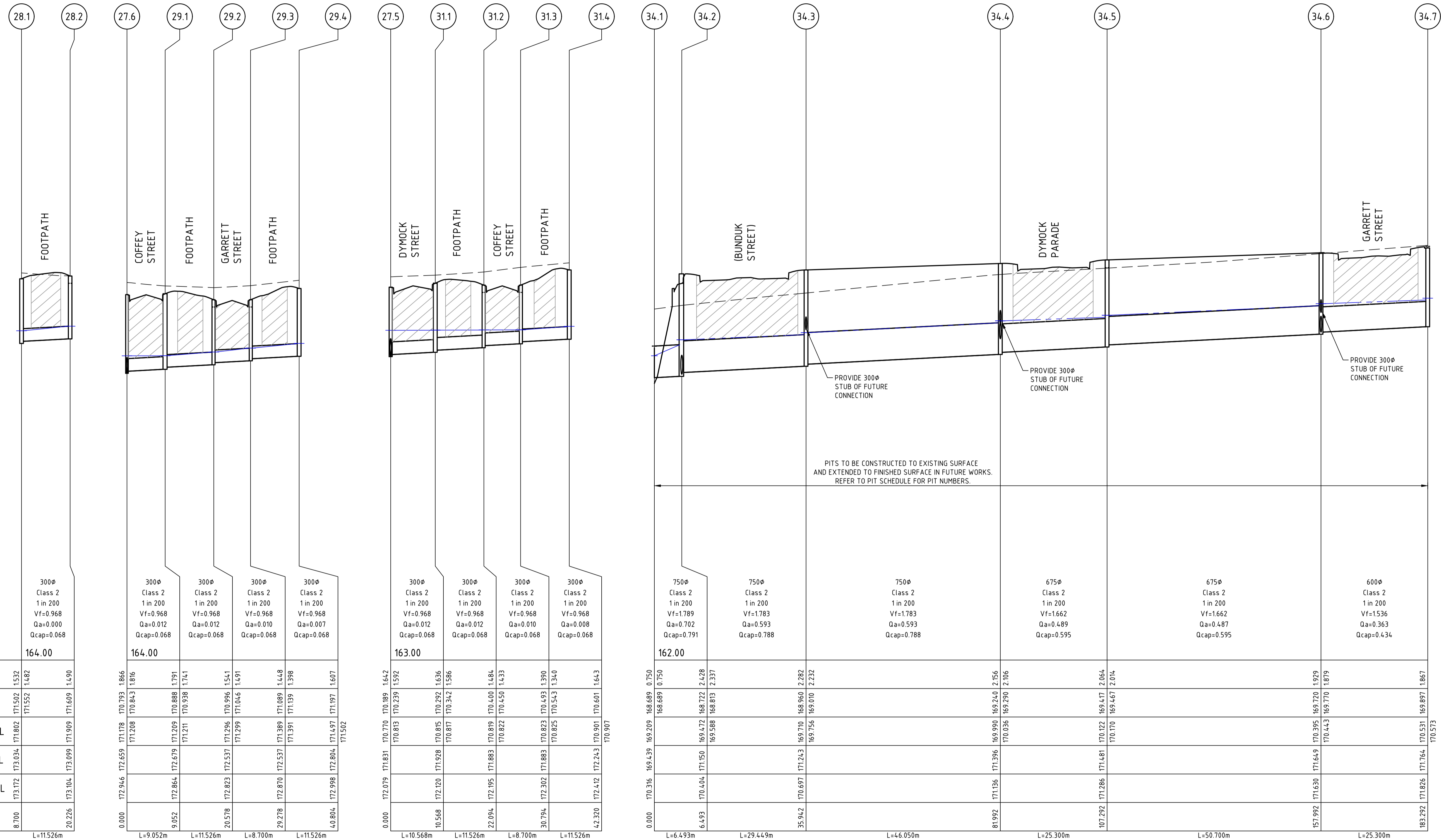
 spiire.com.au ABN 55 050 029 635

Designed H. OAKLEY-WARREN	Checked B. IBBS
Authorised C. CLARKE	Date MAY 2023

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

PRELIMINARY

Rev No
309101CR500

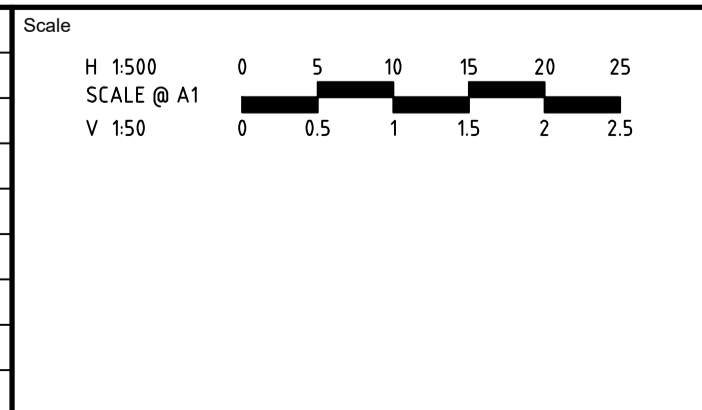


Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m³/s)
Pipe Capacity (m³/s)

DATUM RL	164.00	164.00	163.00	162.00	162.00	162.00	162.00	162.00	162.00	162.00	162.00	162.00	162.00	162.00	162.00
DEPTH TO INVERT															
DESIGN INVERT LEVEL															
HYDRAULIC GRADE LEVEL															
FINISHED SURFACE LEVEL															
EXISTING SURFACE LEVEL															
CHAINAGE	8.700	20.226	0.000	10.568	22.094	30.794	42.320	0.000	6.493	35.942	81.992	107.292	157.992	183.292	170.573

file name: 309101CR601.dwg, layout name: CR601, created by: Harry Oakley-Warren, date: 24/05/2023 10:02 AM, sheet: 16 of 24 sheets
 file location: \\spire.com.au\shared\data\309101\309101\CAD\plot_data\24_05_2023_10_02_AM_Sheet_16_of_24_Sheets

Rev	Amendments	Approved	Date
B	UPSIZED DRAINAGE IN REAR OF FUTURE LOTS	H. O.	19/05/23
A	PRELIMINARY ISSUE	B.I.	25/11/22



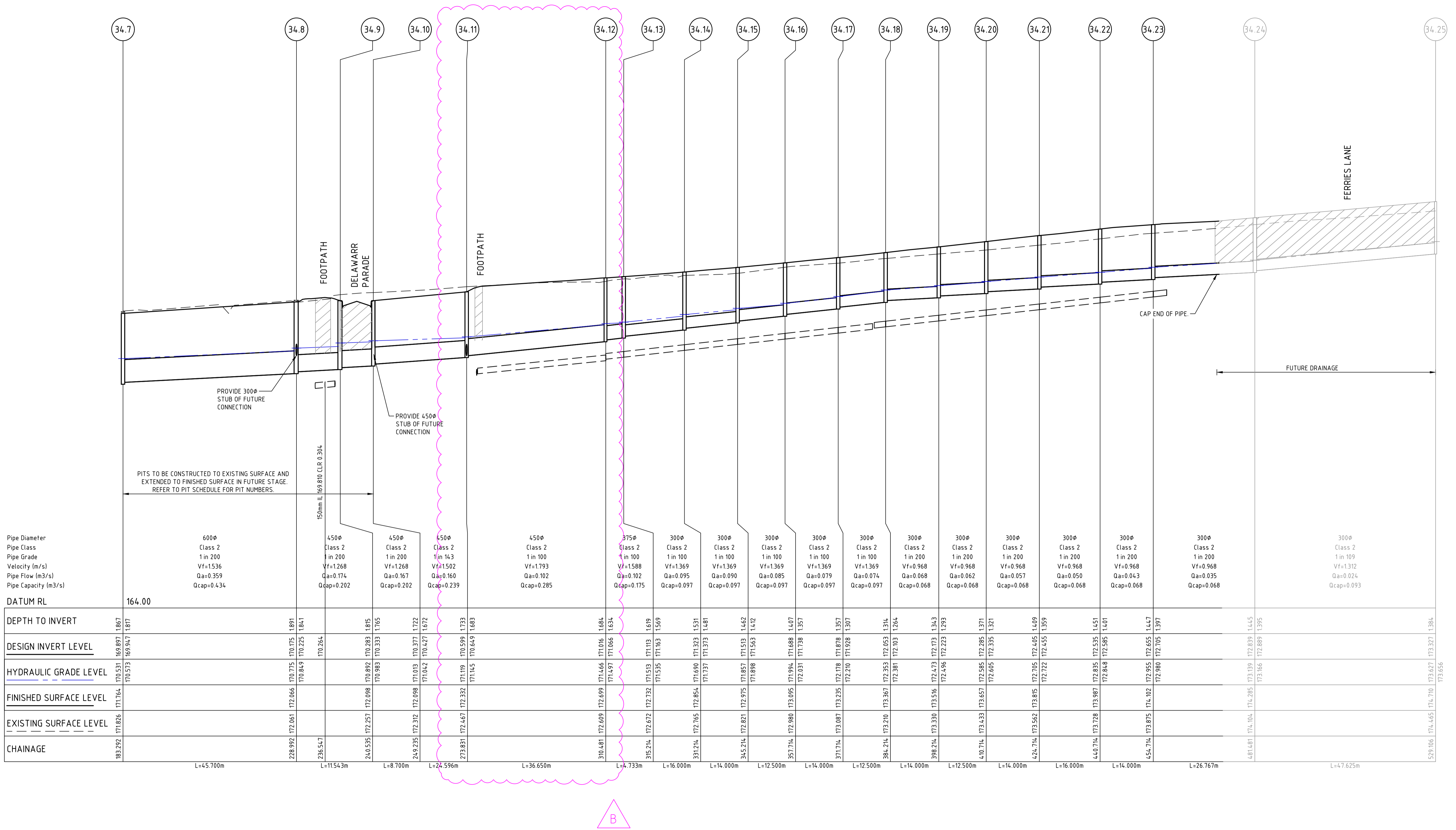
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Designed H. OAKLEY-WARREN	Checked B. IBBS
Authorised C. CLARKE	Date MAY 2023


PROVENANCE ESTATE
STAGE 8
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 2
 CITY OF GREATER BENDIGO
 HUNTLY PROPERTY HOLDING PTY LTD
PRELIMINARY Dwg No 309101CR601 Rev B


 CRUSHED ROCK BACKFILL



Pipe Diameter	600φ	450φ	450φ	450φ	450φ	375φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	
Pipe Class	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	
Pipe Grade	1 in 200	1 in 200	1 in 200	1 in 14.3	1 in 100	1 in 100	1 in 100	1 in 100	1 in 100	1 in 100	1 in 100	1 in 200	1 in 200	1 in 200	1 in 200	1 in 200	1 in 200	1 in 200	1 in 109	
Velocity (m/s)	Vf=1.536	Vf=1.268	Vf=1.268	Vf=1.502	Vf=1.793	Vf=1.369	Vf=1.369	Vf=1.369	Vf=1.369	Vf=1.369	Vf=1.369	Vf=0.968	Vf=0.968	Vf=0.968	Vf=0.968	Vf=0.968	Vf=0.968	Vf=0.968	Vf=1.312	
Pipe Flow (m ³ /s)	Qa=0.359	Qa=0.174	Qa=0.167	Qa=0.160	Qa=0.102	Qa=0.095	Qa=0.090	Qa=0.085	Qa=0.079	Qa=0.074	Qa=0.068	Qa=0.062	Qa=0.057	Qa=0.050	Qa=0.043	Qa=0.035	Qa=0.035	Qa=0.035	Qa=0.024	
Pipe Capacity (m ³ /s)	Qcap=0.434	Qcap=0.202	Qcap=0.202	Qcap=0.239	Qcap=0.285	Qcap=0.175	Qcap=0.097	Qcap=0.097	Qcap=0.097	Qcap=0.097	Qcap=0.068	Qcap=0.068	Qcap=0.068	Qcap=0.068	Qcap=0.068	Qcap=0.068	Qcap=0.068	Qcap=0.068	Qcap=0.093	
DATUM RL	164.00																			
DEPTH TO INVERT	170.531	170.775	170.775	170.377	170.427	171.016	171.113	171.163	171.533	171.533	171.563	171.563	171.563	171.563	171.563	171.563	171.563	171.563	171.563	171.563
DESIGN INVERT LEVEL	169.947	170.225	170.225	170.264	170.427	171.066	171.066	171.066	171.066	171.066	171.066	171.066	171.066	171.066	171.066	171.066	171.066	171.066	171.066	171.066
HYDRAULIC GRADE LEVEL	170.573	170.849	170.849	170.264	170.427	171.066	171.066	171.066	171.066	171.066	171.066	171.066	171.066	171.066	171.066	171.066	171.066	171.066	171.066	171.066
FINISHED SURFACE LEVEL	171.164	172.066	172.066	172.066	172.066	172.066	172.066	172.066	172.066	172.066	172.066	172.066	172.066	172.066	172.066	172.066	172.066	172.066	172.066	172.066
EXISTING SURFACE LEVEL	171.826	172.061	172.061	172.061	172.061	172.061	172.061	172.061	172.061	172.061	172.061	172.061	172.061	172.061	172.061	172.061	172.061	172.061	172.061	172.061
CHAINAGE	183.292	228.992	236.547	240.535	249.235	273.831	310.481	315.214	331.214	345.214	357.714	371.714	384.214	398.214	410.714	424.714	440.714	454.714	481.481	529.106
	L=45.700m	L=11.543m	L=8.700m	L=24.596m	L=36.650m	L=4.733m	L=16.000m	L=14.000m	L=12.500m	L=14.000m	L=12.500m	L=14.000m	L=12.500m	L=14.000m	L=16.000m	L=14.000m	L=26.767m	L=47.625m		

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Scale	H 1:500	V 1:50		
Scale @ A1				
Rev	B	UPSIDED DRAINAGE IN REAR OF FUTURE LOTS	H. O.	19/05/23
	A	PRELIMINARY ISSUE	B.I.	25/11/22
	Rev	Amendments	Approved	Date



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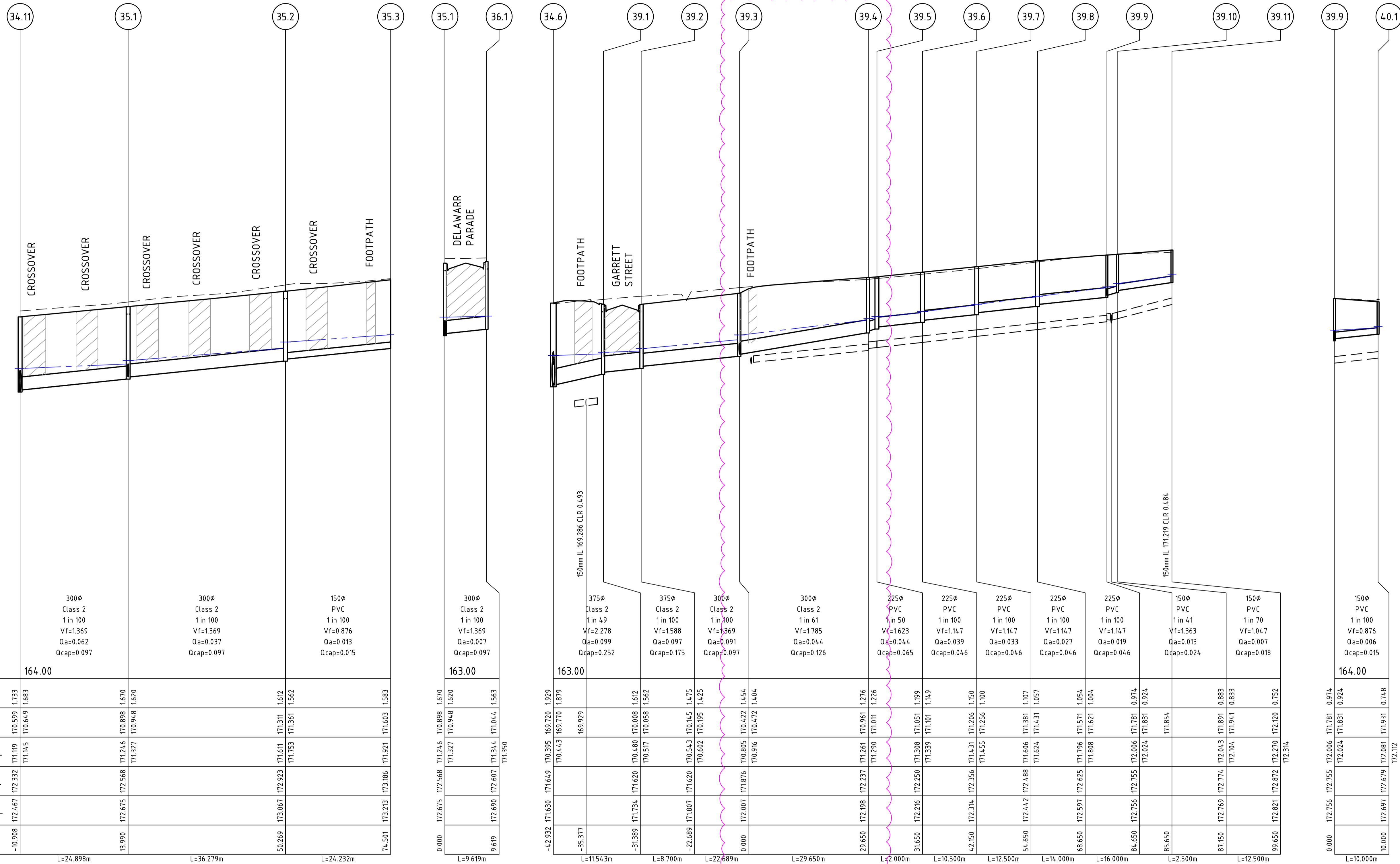
Designed	H. OAKLEY-WARREN	Checked	B. IBBS
Authorised	C. CLARKE	Date	MAY 2023

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

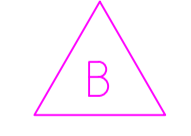
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Dwg No
309101CR602

Rev
B

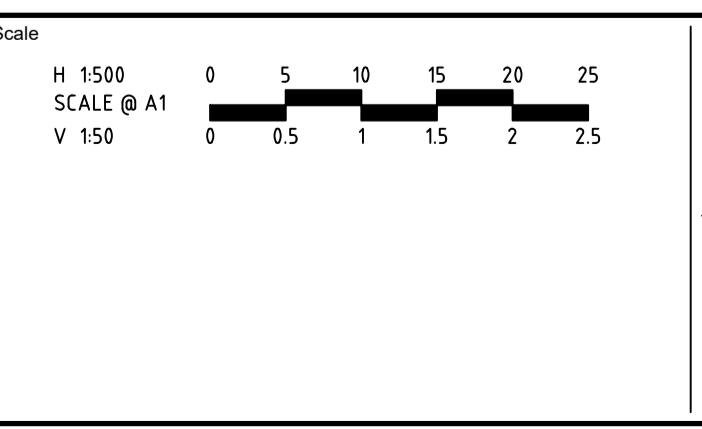


Station	Length (m)	Pipe Diameter	Pipe Class	Pipe Grade	Velocity (m/s)	Pipe Flow (m ³ /s)	Pipe Capacity (m ³ /s)	DATUM RL	DEPTH TO INVERT	DESIGN INVERT LEVEL	HYDRAULIC GRADE LEVEL	FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CHAINAGE
34.11	L=24.898m	300φ	Class 2	1 in 100	Vf=1.369	Qa=0.062	Qcap=0.097	164.00	171.119 170.599 1.733	171.145 170.649 1.683	171.145 170.649 1.683	172.332 171.119	172.467 171.119	-10.908 172.467
35.1	L=36.279m	300φ	Class 2	1 in 100	Vf=1.369	Qa=0.037	Qcap=0.097	163.00	171.246 170.898 1.670	171.327 170.948 1.620	171.327 170.948 1.620	172.568 171.246	172.675 171.246	13.990 172.675
35.2	L=24.232m	150φ	PVC	1 in 100	Vf=0.876	Qa=0.013	Qcap=0.015	163.00	171.311 1.612	171.361 1.562	171.361 1.562	172.923 171.611	173.067 171.611	50.269 173.067
35.3	L=9.619m	300φ	Class 2	1 in 100	Vf=1.369	Qa=0.007	Qcap=0.097	163.00	171.246 170.898 1.670	171.327 170.948 1.620	171.327 170.948 1.620	172.607 171.344	172.821 171.344	74.501 172.821
36.1	L=11.543m	375φ	Class 2	1 in 49	Vf=2.278	Qa=0.099	Qcap=0.252	163.00	171.649 170.395 1.697	169.929 1.719	171.649 170.395 1.697	172.231 171.261	172.198 171.261	29.650 172.198
39.1	L=8.700m	375φ	Class 2	1 in 100	Vf=1.588	Qa=0.097	Qcap=0.175	163.00	170.480 170.008 1.612	170.517 170.058 1.562	170.517 170.058 1.562	171.620 170.480	171.876 170.480	-31.389 171.876
39.2	L=22.689m	300φ	Class 2	1 in 100	Vf=1.369	Qa=0.091	Qcap=0.097	163.00	170.543 170.145 1.675	170.602 170.195 1.625	170.602 170.195 1.625	171.876 170.543	171.876 170.543	-22.689 171.876
39.3	L=29.650m	300φ	Class 2	1 in 61	Vf=1.785	Qa=0.044	Qcap=0.126	163.00	170.805 170.422 1.454	170.916 170.472 1.404	170.916 170.472 1.404	172.231 171.261	172.356 171.431	42.150 172.356
39.4	L=2.000m	225φ	PVC	1 in 50	Vf=1.623	Qa=0.044	Qcap=0.065	163.00	171.290 171.001 1.226	171.290 171.001 1.226	171.290 171.001 1.226	172.231 171.261	172.231 171.261	31.650 172.231
39.5	L=10.500m	225φ	PVC	1 in 100	Vf=1.147	Qa=0.039	Qcap=0.046	163.00	171.308 171.051 1.199	171.339 171.101 1.149	171.339 171.101 1.149	172.231 171.261	172.231 171.261	42.150 172.231
39.6	L=12.500m	225φ	PVC	1 in 100	Vf=1.147	Qa=0.033	Qcap=0.046	163.00	171.455 171.256 1.100	171.455 171.256 1.100	171.455 171.256 1.100	172.231 171.261	172.231 171.261	54.650 172.231
39.7	L=14.000m	225φ	PVC	1 in 100	Vf=1.147	Qa=0.027	Qcap=0.046	163.00	171.606 171.381 1.107	171.624 171.431 1.057	171.624 171.431 1.057	172.231 171.261	172.231 171.261	68.650 172.231
39.8	L=16.000m	225φ	PVC	1 in 100	Vf=1.147	Qa=0.019	Qcap=0.046	163.00	171.796 171.571 1.054	171.808 171.621 1.004	171.808 171.621 1.004	172.231 171.261	172.231 171.261	84.650 172.231
39.9	L=2.500m	150φ	PVC	1 in 41	Vf=1.363	Qa=0.013	Qcap=0.024	164.00	172.006 171.781 0.974	172.024 171.831 0.924	172.024 171.831 0.924	172.231 171.261	172.231 171.261	85.650 172.231
39.10	L=12.500m	150φ	PVC	1 in 70	Vf=1.047	Qa=0.007	Qcap=0.018	164.00	172.043 171.891 0.883	172.104 171.941 0.833	172.104 171.941 0.833	172.231 171.261	172.231 171.261	87.150 172.231
39.11	L=10.000m	150φ	PVC	1 in 100	Vf=0.876	Qa=0.006	Qcap=0.015	164.00	172.270 172.120 0.752	172.314 172.120 0.752	172.314 172.120 0.752	172.231 171.261	172.231 171.261	99.650 172.231
40.1	L=10.000m	150φ	PVC	1 in 100	Vf=0.876	Qa=0.006	Qcap=0.015	164.00	172.006 171.781 0.974	172.024 171.831 0.924	172.024 171.831 0.924	172.231 171.261	172.231 171.261	10.000 172.231



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Rev	Amendments	Approved	Date
B	UPSIZED DRAINAGE IN REAR OF FUTURE LOTS	H. O.	19/05/23
A	PRELIMINARY ISSUE	B.I.	25/11/22



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16 BRIDGE STREET BENDIGO

 VICTORIA 3550 AUSTRALIA T 61 3 5448 2500

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Designed	H. OAKLEY-WARREN	Checked	B. IBBS
Authorised	C. CLARKE	Date	MAY 2023

PROVENANCE ESTATE

STAGE 8

ROAD AND DRAINAGE

DRAINAGE LONG SECTIONS - SHEET 4

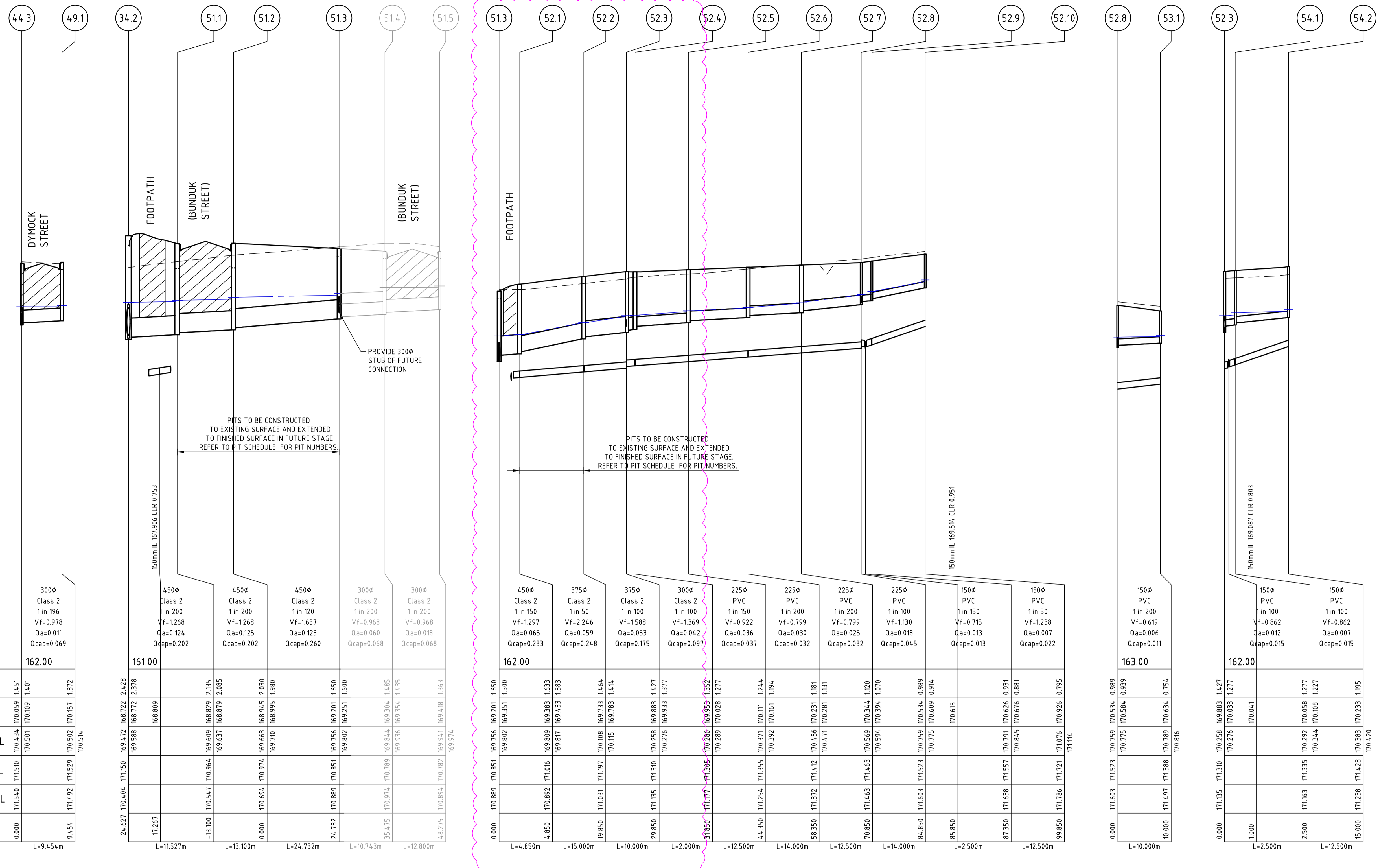
 CITY OF GREATER BENDIGO

 HUNTLY PROPERTY HOLDING PTY LTD

PRELIMINARY

Dwg No **309101CR603**

Rev **B**



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

DATUM RL	162.00
DEPTH TO INVERT	170.434, 170.059, 1.451, 170.501, 170.109, 1.401, 170.514
DESIGN INVERT LEVEL	
HYDRAULIC GRADE LEVEL	
FINISHED SURFACE LEVEL	
EXISTING SURFACE LEVEL	
CHAINAGE	0.000, 9.454, 171.492, 171.529, 170.502, 170.157, 1.372

150mm I.L. 167.906 CLR 0.753	161.00	169.472, 168.722, 2.428, 169.588, 168.772, 2.378, 168.809
450φ Class 2 1 in 200 Vf=1.268 Qa=0.124 Qcap=0.202	161.00	169.609, 168.829, 2.155, 169.637, 168.879, 2.085
450φ Class 2 1 in 200 Vf=1.268 Qa=0.125 Qcap=0.202	161.00	169.663, 168.965, 2.030, 169.710, 168.995, 1.980
450φ Class 2 1 in 120 Vf=1.637 Qa=0.123 Qcap=0.260	161.00	169.756, 169.201, 1.650, 169.802, 169.251, 1.600
300φ Class 2 1 in 200 Vf=0.968 Qa=0.060 Qcap=0.068	161.00	169.844, 169.304, 1.485, 169.936, 169.354, 1.435
300φ Class 2 1 in 200 Vf=0.968 Qa=0.068 Qcap=0.068	161.00	169.941, 169.418, 1.363, 169.974

150mm I.L. 169.514 CLR 0.951	162.00	169.756, 169.201, 1.650, 169.802, 169.351, 1.500
450φ Class 2 1 in 150 Vf=1.297 Qa=0.065 Qcap=0.233	162.00	169.809, 169.383, 1.633, 169.817, 169.433, 1.583
375φ Class 2 1 in 50 Vf=2.246 Qa=0.059 Qcap=0.248	162.00	169.733, 1.664, 170.115, 169.783, 1.414
375φ Class 2 1 in 100 Vf=1.588 Qa=0.053 Qcap=0.175	162.00	170.258, 169.883, 1.427, 170.276, 169.933, 1.377
300φ Class 2 1 in 100 Vf=1.369 Qa=0.042 Qcap=0.097	162.00	170.280, 169.933, 1.352, 170.289, 170.028, 1.277
225φ PVC 1 in 150 Vf=0.922 Qa=0.036 Qcap=0.037	162.00	170.371, 170.111, 1.244, 170.392, 170.161, 1.194
225φ PVC 1 in 200 Vf=0.799 Qa=0.030 Qcap=0.032	162.00	170.471, 170.281, 1.191, 170.471, 170.281, 1.191
225φ PVC 1 in 200 Vf=0.799 Qa=0.025 Qcap=0.032	162.00	170.569, 170.344, 1.120, 170.594, 170.394, 1.070
225φ PVC 1 in 100 Vf=1.130 Qa=0.018 Qcap=0.045	162.00	170.759, 170.534, 0.989, 170.775, 170.609, 0.914
150φ PVC 1 in 150 Vf=0.715 Qa=0.013 Qcap=0.013	162.00	170.615, 170.615
150φ PVC 1 in 50 Vf=1.238 Qa=0.007 Qcap=0.022	162.00	170.791, 170.626, 0.931, 170.845, 170.676, 0.861

150φ PVC 1 in 200 Vf=0.619 Qa=0.006 Qcap=0.011	163.00	170.759, 170.534, 0.989, 170.775, 170.584, 0.939
150φ PVC 1 in 100 Vf=0.862 Qa=0.012 Qcap=0.015	162.00	171.135, 171.310, 170.258, 169.883, 1.427, 170.276, 170.033, 1.277, 170.041
150φ PVC 1 in 100 Vf=0.862 Qa=0.007 Qcap=0.015	162.00	171.163, 171.335, 170.292, 170.058, 1.277, 170.344, 170.108, 1.227

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Scale	H 1:500 SCALE @ A1 V 1:50
Image	
Image	
Text	System Certified
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Text	16 BRIDGE STREET BENDIGO VICTORIA 3550 AUSTRALIA T 61 3 5448 2500 spire.com.au ABN 55 050 029 635
Text	Designed H. OAKLEY-WARREN
Text	Checked B. IBBS
Text	Authorised C. CLARKE
Text	Date MAY 2023
Text	PROVENANCE ESTATE STAGE 8 ROAD AND DRAINAGE DRAINAGE LONG SECTIONS - SHEET 6 CITY OF GREATER BENDIGO HUNTLY PROPERTY HOLDING PTY LTD
Text	PRELIMINARY Dwg No 309101CR605 Rev B

DRAINAGE PIT SCHEDULE

NAME	TYPE	PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
		WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH			
27.1	SIDE ENTRY PIT	900	900	450	168.780	450	168.730	170.628	1898	CONSTRUCT TO EXCAVATED SURFACE AS SD420 IN STG 8 WORKS. ULTIMATELY CONSTRUCTED AS SD430.		
27.2	SIDE ENTRY PIT	900	900	450	169.136	450	169.086	170.800	1715	CONSTRUCT TO EXCAVATED SURFACE AS SD420 IN STG 8 WORKS. ULTIMATELY CONSTRUCTED AS SD430.		
27.3	JUNCTION PIT	900	900	450	169.218	450	169.168	171.021	1852	CONSTRUCT TO EXCAVATED SURFACE AS SD420 IN STG 8 WORKS. ULTIMATELY CONSTRUCTED AS SD430.		
27.4	SIDE ENTRY PIT	600	900	375	169.309	450	169.259	170.942	1684	CONSTRUCT TO EXCAVATED SURFACE AS SD420 IN STG 8 WORKS. ULTIMATELY CONSTRUCTED AS SD430.		
27.5	SIDE ENTRY PIT	600	900	375	170.239	375	170.189	171.831	1642	AS PER IDM SD430.		
27.6	SIDE ENTRY PIT	600	900	300	170.843	375	170.793	172.659	1866	AS PER IDM SD430.		
27.7	SIDE ENTRY PIT	600	900	300	171.458	300	171.408	173.027	1619	AS PER IDM SD430.		
27.8	SIDE ENTRY PIT	600	900	300	171.647	300	171.597	173.374	1778	AS PER IDM SD430.		
27.9	SIDE ENTRY PIT	600	900	300	171.842	300	171.792	173.374	1583	AS PER IDM SD430.		
27.10	SIDE ENTRY PIT	600	900	150	172.390	300	172.340	173.645	1305	AS PER IDM SD430.		
27.11	ENDPIPE	0	0			150	172.637	173.840	1203			
28.1	SIDE ENTRY PIT	600	900	300	171.552	300	171.502	173.034	1532	AS PER IDM SD430.		
28.2	SIDE ENTRY PIT	600	900	300	171.609	300	171.559	173.099	1490	AS PER IDM SD430.		
29.1	SIDE ENTRY PIT	600	900	300	170.938	300	170.888	172.679	1791	AS PER IDM SD430.		
29.2	SIDE ENTRY PIT	600	900	300	171.046	300	170.996	172.537	1541			
29.3	SIDE ENTRY PIT	600	900	300	171.139	300	171.089	172.537	1448			
29.4	SIDE ENTRY PIT	600	900	300	171.197	300	171.147	172.804	1607	AS PER IDM SD430.		
31.1	SIDE ENTRY PIT	600	900	300	170.342	300	170.292	171.928	1636	AS PER IDM SD430.		
31.2	SIDE ENTRY PIT	600	900	300	170.450	300	170.400	171.883	1484			
31.3	SIDE ENTRY PIT	600	900	300	170.543	300	170.493	171.883	1390			
31.4	SIDE ENTRY PIT	600	900	300	170.601	300	170.551	172.243	1643	AS PER IDM SD430.		
33.1	SIDE ENTRY PIT	600	900	300	169.403	300	169.353	170.941	1588	FUTURE PIT.		
33.2	SIDE ENTRY PIT	600	900	300	169.504	300	169.454	170.968	1514	FUTURE PIT.		
33.3	SIDE ENTRY PIT	900	600			300	169.557	170.921	1364	FUTURE PIT.		
34.1	ENDPIPE	0	0	750	168.676			169.426	0.750	WINGWALL.		
34.2	JUNCTION PIT	1200	900	750	168.758	750	168.708	171.150	2.442	AS PER IDM SD420. CONSTRUCTED TO ES AND EXTENDED TO FS IN FUTURE WORKS.		
34.3	GRATED JUNCTION PIT	1200	900	750	169.010	750	168.905	171.243	2.337	CONSTRUCTED TO ES AS PER IDM SD420 AND EXTENDED TO FS AS PER IDM SD430 IN FUTURE WORKS.		
34.4	GRATED JUNCTION PIT	1200	900	675	169.290	750	169.240	171.396	2.156	CONSTRUCTED TO ES AS PER IDM SD420 AND EXTENDED TO FS AS PER IDM SD430 IN FUTURE WORKS.		
34.5	SIDE ENTRY PIT	900	900	675	169.467	675	169.417	171.481	2.064	CONSTRUCTED TO ES AS PER IDM SD420 AND EXTENDED TO FS AS PER IDM SD430 IN FUTURE WORKS.		
34.6	GRATED JUNCTION PIT	900	900	600	169.770	675	169.720	171.649	1.929	CONSTRUCTED TO ES AS PER IDM SD420 AND EXTENDED TO FS AS PER IDM SD430 IN FUTURE WORKS.		
34.7	SIDE ENTRY PIT	900	900	600	169.947	600	169.897	171.764	1.867	CONSTRUCTED TO ES AS PER IDM SD420 AND EXTENDED TO FS AS PER IDM SD430 IN FUTURE WORKS.		
34.8	SIDE ENTRY PIT	900	900	450	170.225	600	170.175	172.066	1.891	CONSTRUCTED TO ES AS PER IDM SD420 AND EXTENDED TO FS AS PER IDM SD430 IN FUTURE WORKS.		
34.9	GRATED JUNCTION PIT	900	900	450	170.333	450	170.283	172.098	1.815	CONSTRUCTED TO ES AS PER IDM SD420 AND EXTENDED TO FS AS PER IDM SD430 IN FUTURE WORKS.		
34.10	GRATED JUNCTION PIT	900	900	450	170.427	450	170.377	172.098	1.722	CONSTRUCTED TO ES AS PER IDM SD420 AND EXTENDED TO FS AS PER IDM SD430 IN FUTURE WORKS.		
34.11	GRATED JUNCTION PIT	900	900	450	170.649	450	170.599	172.332	1.733	AS PER IDM SD430.		
34.12	JUNCTION PIT	900	600	375	171.066	375	171.016	172.699	1.684	AS PER CoGB SD27.		
34.13	GRATED JUNCTION PIT	600	900	300	171.163	375	171.113	172.732	1.619	AS PER CoGB SD27.		
34.14	GRATED JUNCTION PIT	600	900	300	171.373	300	171.323	172.854	1.531	AS PER CoGB SD27.		
34.15	GRATED JUNCTION PIT	600	900	300	171.563	300	171.513	172.975	1.462	AS PER CoGB SD27.		
34.16	GRATED JUNCTION PIT	600	900	300	171.738	300	171.688	173.095	1.407	AS PER CoGB SD27.		
34.17	GRATED JUNCTION PIT	600	900	300	171.928	300	171.878	173.235	1.357	AS PER CoGB SD27.		
34.18	GRATED JUNCTION PIT	600	900	300	172.103	300	172.053	173.367	1.314	AS PER CoGB SD27.		
34.19	GRATED JUNCTION PIT	600	900	300	172.223	300	172.173	173.516	1.343	AS PER CoGB SD27.		
34.20	GRATED JUNCTION PIT	600	900	300	172.335	300	172.285	173.657	1.371	AS PER CoGB SD27.		
34.21	GRATED JUNCTION PIT	600	900	300	172.455	300	172.405	173.815	1.409	AS PER CoGB SD27.		
34.22	GRATED JUNCTION PIT	600	900	300	172.585	300	172.535	173.987	1.451	AS PER CoGB SD27.		
34.23	GRATED JUNCTION PIT	600	900	300	172.705	300	172.655	174.102	1.447	AS PER CoGB SD27.		
34.24	GRATED JUNCTION PIT	600	900	300	172.889	300	172.839	174.285	1.445	AS PER IDM SD420. FUTURE WORKS.		
34.25	GRATED JUNCTION PIT	900	600			300	173.327	174.710	1.384	AS PER IDM SD420. FUTURE WORKS.		
35.1	SIDE ENTRY PIT	600	900	300	170.948	300	170.898	172.568	1.670	AS PER IDM SD430.		

NOTE: 1. ALL DRAINAGE PITS IN ROAD RESERVE TO HAVE CLASS B FIBERGLASS LIDS.

DRAINAGE PIT SCHEDULE

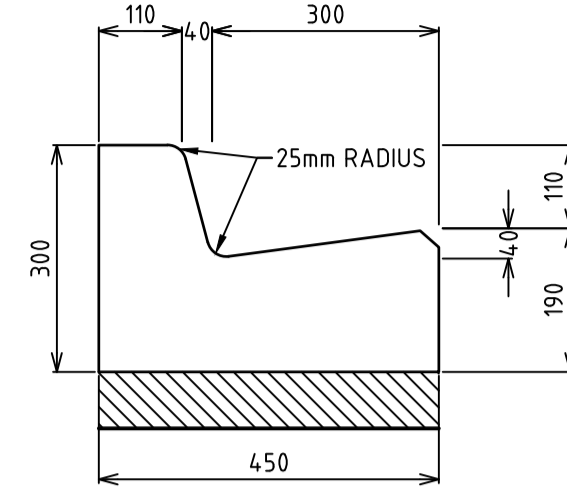
NAME	TYPE	PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
		WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH			
35.2	SIDE ENTRY PIT	600	900	150	171.361	300	171.311	172.923	1612	AS PER IDM SD430.		
35.3	ENDPIPE	0	0			150	171.603	173.186	1583			
36.1	SIDE ENTRY PIT	600	900			300	171.044	172.607	1563	AS PER IDM SD430.		
37.1	SIDE ENTRY PIT	600	900			300	170.698	172.061	1363	AS PER IDM SD430.		
38.1	SIDE ENTRY PIT	600	900			300	170.281	171.644	1363	AS PER IDM SD430.		
39.1	SIDE ENTRY PIT	600	900	375	170.058	375	170.008	171.620	1612	CONSTRUCTED TO ES AS PER IDM SD420 AND EXTENDED TO FS AS PER IDM SD430 IN FUTURE WORKS.		
39.2	SIDE ENTRY PIT	600	900	300	170.195	375	170.145	171.620	1475	CONSTRUCTED TO ES AS PER IDM SD420 AND EXTENDED TO FS AS PER IDM SD430 IN FUTURE WORKS.		
39.3	JUNCTION PIT	600	900	300	170.472	300	170.422	171.876	1454	CONSTRUCTED TO ES AS PER IDM SD420 AND EXTENDED TO FS AS PER IDM SD430 IN FUTURE WORKS.		
39.4	GRATED JUNCTION PIT	900	600	225	171.011	300	170.961	172.237	1276	AS PER CoGB SD27.		
39.5	GRATED JUNCTION PIT	600	900	225	171.101	225	171.051	172.250	1199	AS PER CoGB SD27.		
39.6	GRATED JUNCTION PIT	600	900	225	171.256	225	171.206	172.356	1150	AS PER CoGB SD27.		
39.7	GRATED JUNCTION PIT	600	900	225	171.431	225	171.381	172.488	1107	AS PER CoGB SD27.		
39.8	GRATED JUNCTION PIT	600	900	225	171.621	225	171.571	172.625	1054	AS PER CoGB SD27.		
39.9	GRATED JUNCTION PIT	450	450	150	171.831	225	171.781	172.755	0.974	AS PER CoGB SD24.		
39.10	GRATED JUNCTION PIT	450	450	150	171.941	150	171.891	172.774	0.883	AS PER CoGB SD24.		
39.11	GRATED JUNCTION PIT	450	450	150	172.120	150	172.070	172.872	0.752	AS PER CoGB SD24.		
40.1	DEPRESSED GRATED PIT	450	450			150	171.931	172.679	0.748	AS PER CoGB SD24.		
41.1	ENDPIPE	0	0			225	170.955	172.413	1.458			
42.1	SIDE ENTRY PIT	600	900			300	170.516	171.887	1372	CONSTRUCTED TO ES AS PER IDM SD420 AND EXTENDED TO FS AS PER IDM SD430 IN FUTURE WORKS.		
43.1	SIDE ENTRY PIT	600	900			300	170.028	171.391	1363	AS PER IDM SD430.		
44.1	SIDE ENTRY PIT	600	900	375	169.783	375	169.733	171.331	1599	CONSTRUCTED TO ES AS PER IDM SD420 AND EXTENDED TO FS AS PER IDM SD430 IN FUTURE WORKS.		
44.2	SIDE ENTRY PIT	600	900	375	169.920	375	169.870	171.331	1462	CONSTRUCTED TO ES AS PER IDM SD420 AND EXTENDED TO FS AS PER IDM SD430 IN FUTURE WORKS.		
44.3	JUNCTION PIT	600	900	375	170.109	375	170.059	171.510	1451	AS PER IDM SD430.		
44.4	GRATED JUNCTION PIT	900	600	300	170.357	375	170.282	171.928	1646	AS PER CoGB SD27.		
44.5	GRATED JUNCTION PIT	600	900	225	170.442	300	170.367	171.944	1577	AS PER CoGB SD27.		
44.6	GRATED JUNCTION PIT	600	900	225	170.617	225	170.567	172.022	1455	AS PER CoGB SD27.		
44.7	GRATED JUNCTION PIT	600	900	225	170.737	225	170.687	172.087	1400	AS PER CoGB SD27.		
44.8	GRATED JUNCTION PIT	600	900	150	170.865	225	170.790	172.158	1368	AS PER CoGB SD27.		
44.9	GRATED JUNCTION PIT	600	900	150	171.227	150	171.177	172.240	1063	AS PER CoGB SD27.		
44.10	GRATED JUNCTION PIT	450	450			150	171.507	172.392	0.885	AS PER CoGB SD24.		
45.1	GRATED JUNCTION PIT	450	450			150	171.297	172.088	0.791	AS PER CoGB SD24.		
46.1	SIDE ENTRY PIT	600	900	300	172.450			174.035	1635	BUILD OVER EXISTING DRAINAGE. AS PER IDM SD430.		
46.2	SIDE ENTRY PIT	600	900			300	172.494	174.035	1542	AS PER IDM SD430.		
47.1	SIDE ENTRY PIT	600	900	300	172.985			174.438	1503	BUILD OVER EXISTING DRAINAGE. AS PER IDM SD430.		
47.2	SIDE ENTRY PIT	600	900			300	173.028	174.438	1410	AS PER IDM SD430.		
48.1	ENDPIPE	0	0			225	170.349	171.751	1402			
49.1	SIDE ENTRY PIT	600	900			300	170.157	171.529	1372	AS PER IDM SD430.		
50.1	SIDE ENTRY PIT	600	900			300	169.874	171.238	1363	AS PER IDM SD430.		
51.1	SIDE ENTRY PIT	900	900	450	168.870	450	168.820	170.964	2.145	CONSTRUCTED TO ES AS PER IDM SD420 AND EXTENDED TO FS AS PER IDM SD430 FUTURE WORKS.		
51.2	SIDE ENTRY PIT	900	900	450	168.995	450	168.945	170.974	2.030	CONSTRUCTED TO ES AS PER IDM SD420 AND EXTENDED TO FS AS PER IDM SD430 FUTURE WORKS.		
51.3	SIDE ENTRY PIT	600	900	300	169.251	450	169.201	170.851	1.650			

DESIGN PAVEMENT PROFILE

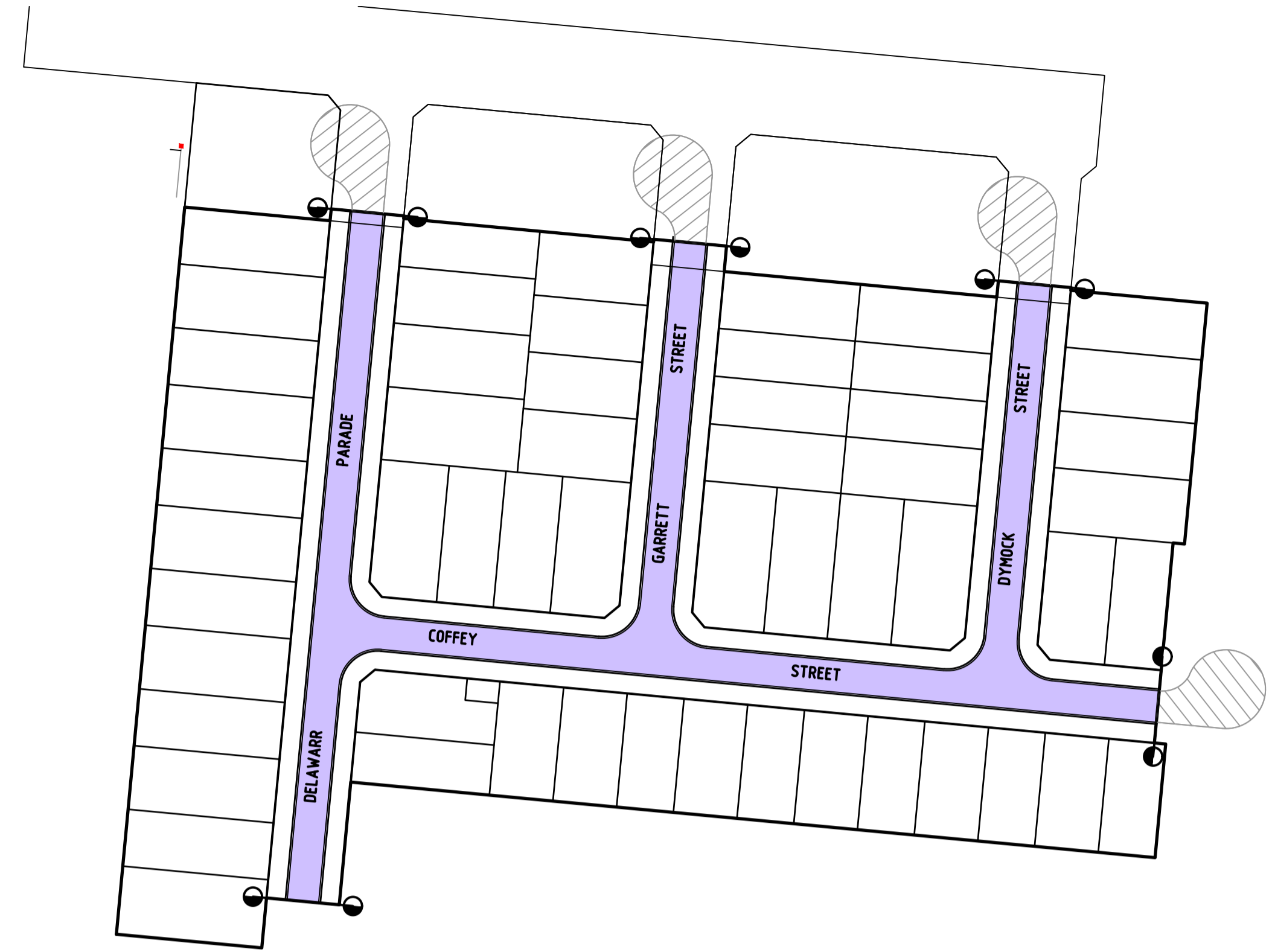
PAVEMENT LAYER	DESCRIPTION	TYPE A*
ASPHALT SEAL	SIZE 10 TYPE N WITH PRIME	30
BASE COURSE	20mm NOMINAL SIZE CLASS 1 OR 2 FCR, MIN CBR 80, COMPACTED TO AT LEAST 98% MODIFIED MAXIMUM DRY DENSITY	130
UPPER PAVEMENT TOTAL		160
SUBBASE	20mm OR 40mm NOMINAL SIZE CLASS 3 FCR, MIN CBR 30 COMPACTED TO AT LEAST 97% MODIFIED MAXIMUM DRY DENSITY	130
STABILISED SUBGRADE	STABILISED WITH 3% LIME, MIN CBR 8, COMPACTED TO A MINIMUM DENSITY RATIO OF 98% STANDARD, EXTENDING 500mm BEHIND KERB	200
TOTAL PAVEMENT DEPTH		290

* 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

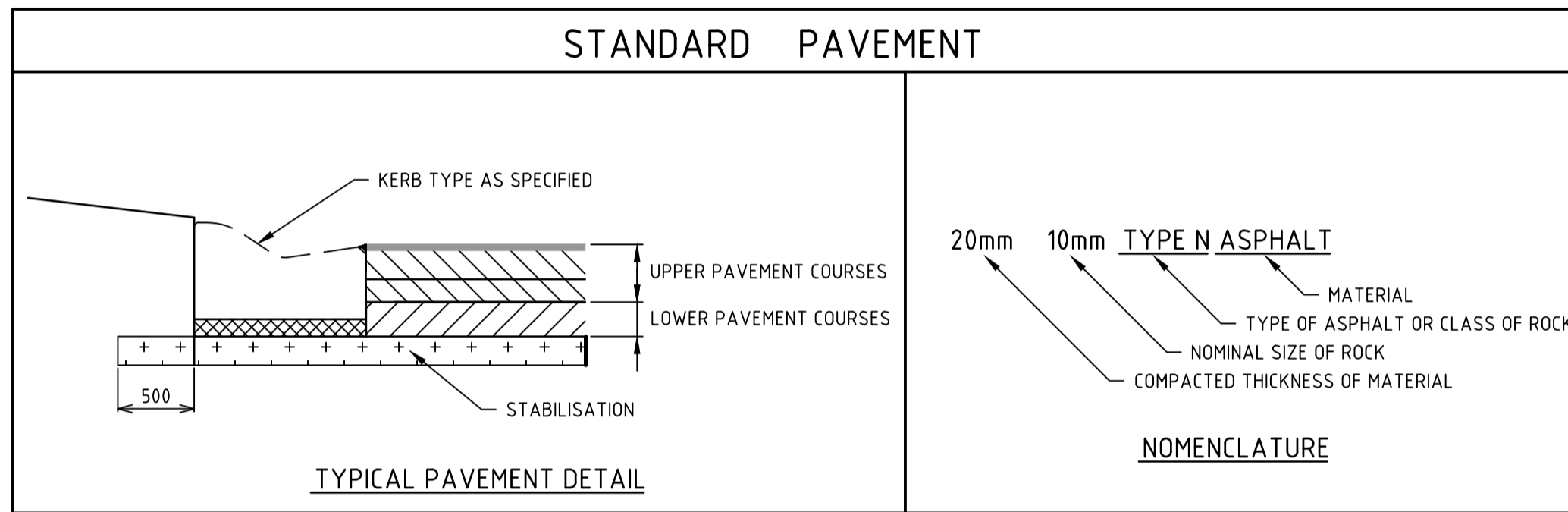


B2
STANDARD KERB PROFILES
NOT TO SCALE



PAVEMENT PLAN

H 1:1000
SCALE @ A1



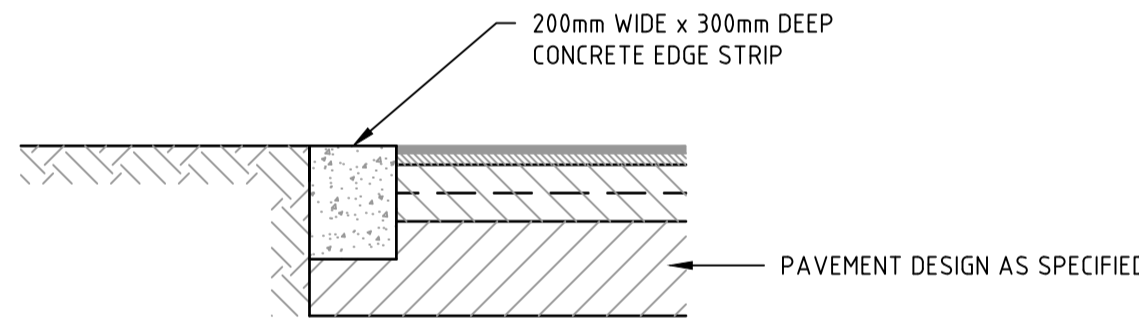
PAVEMENT DETAILS

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.

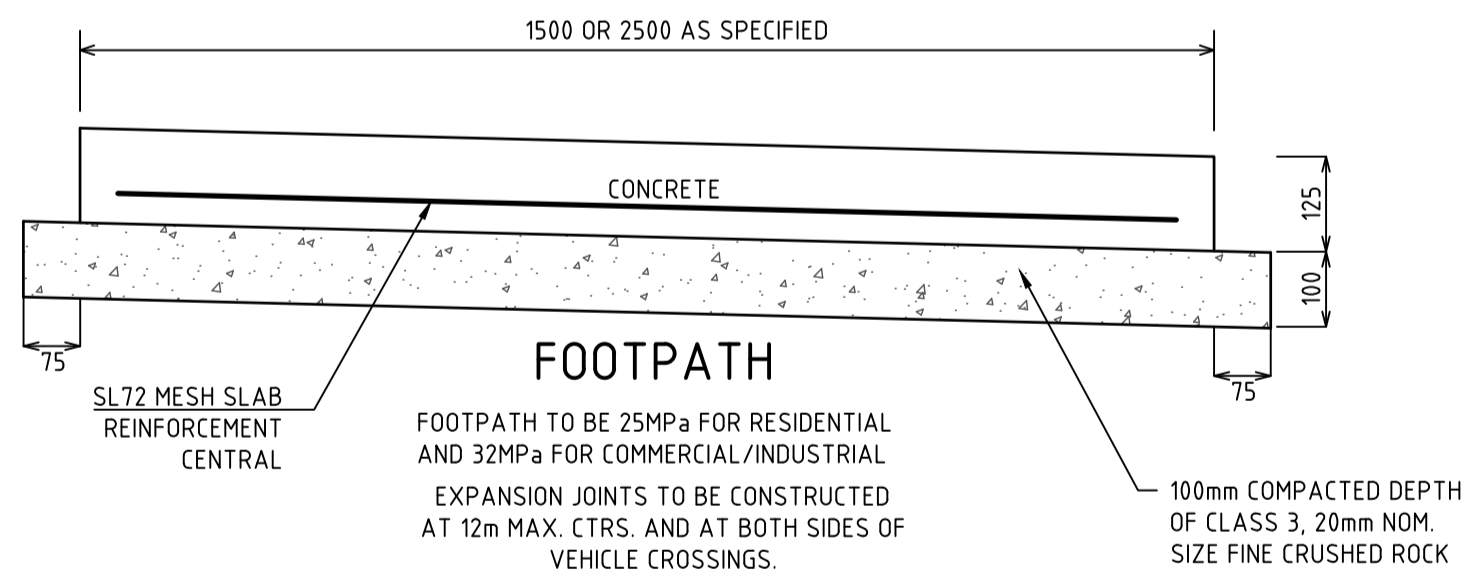
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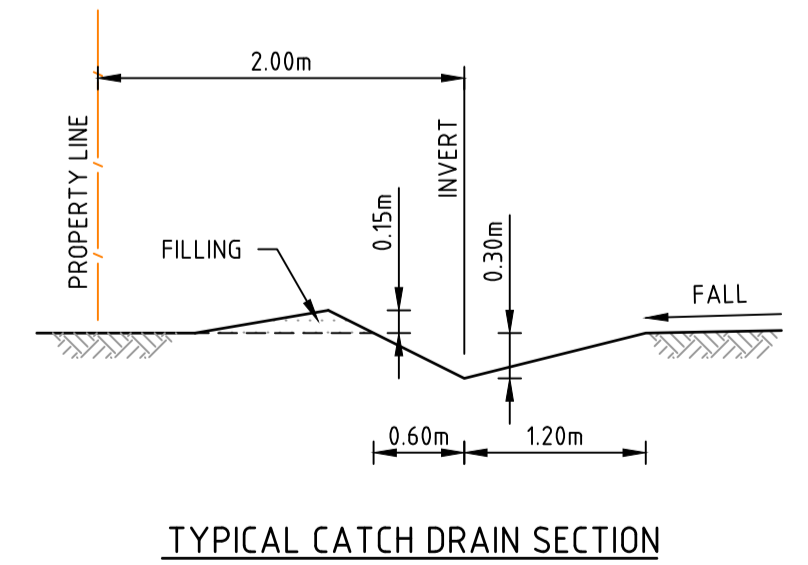
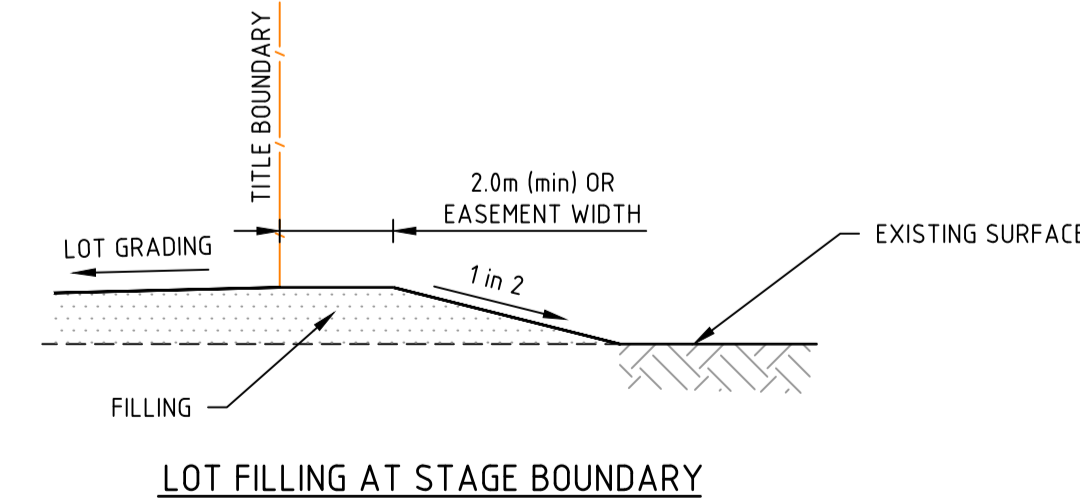
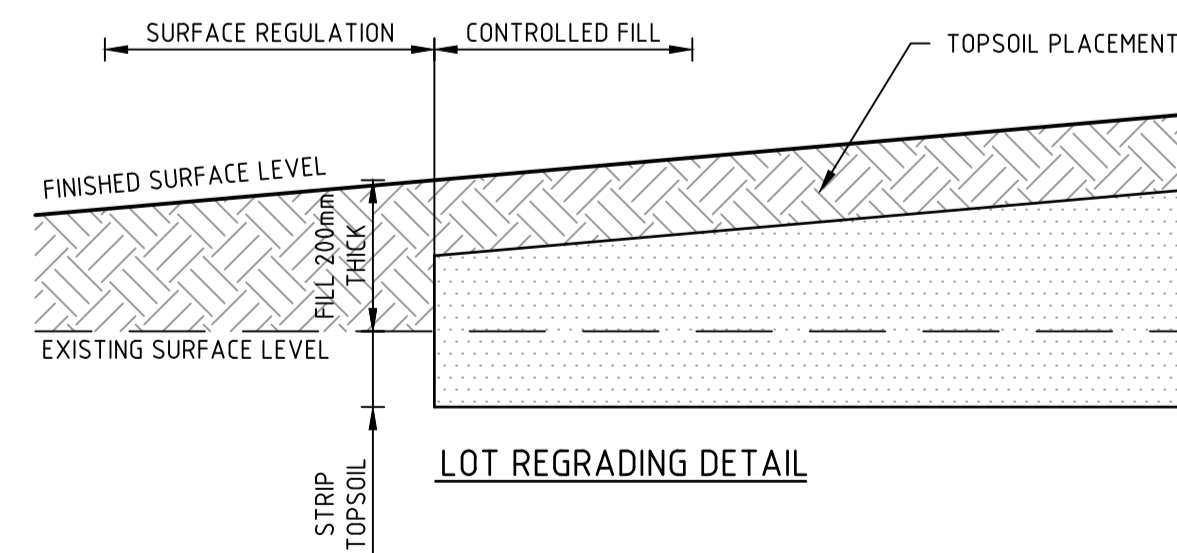
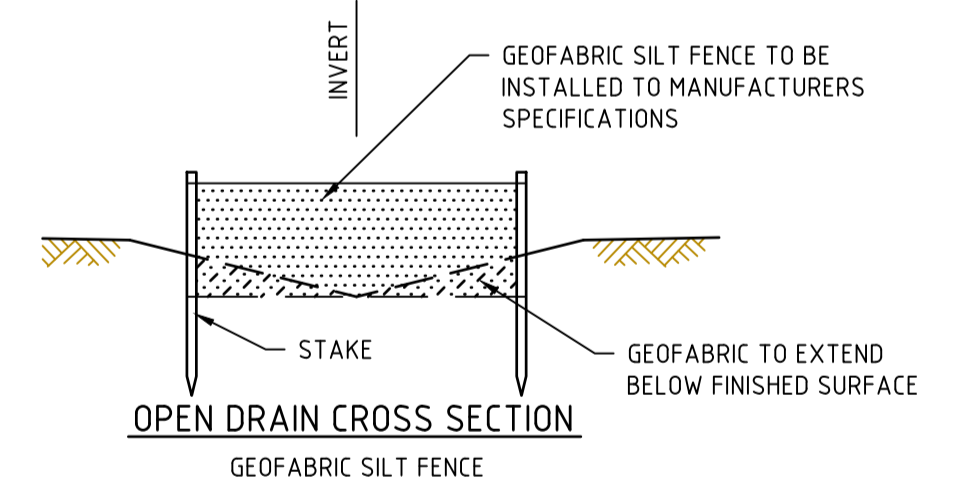
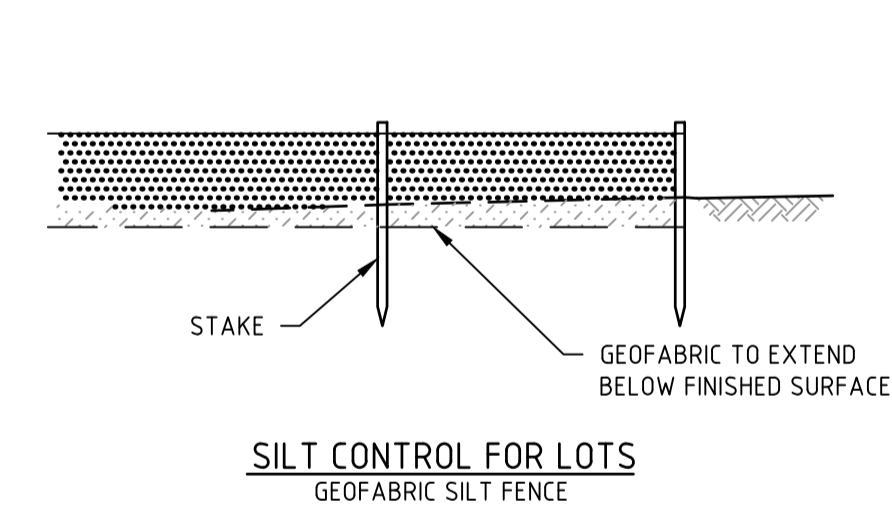


LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL



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.



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Rev	Description	By	Date
B	UPSIZED DRAINAGE IN REAR OF FUTURE LOTS	H. O.	19/05/23
A	PRELIMINARY ISSUE	B.I.	25/11/22
	Amendments	Approved	Date

Scale: AS SHOWN

System Certified

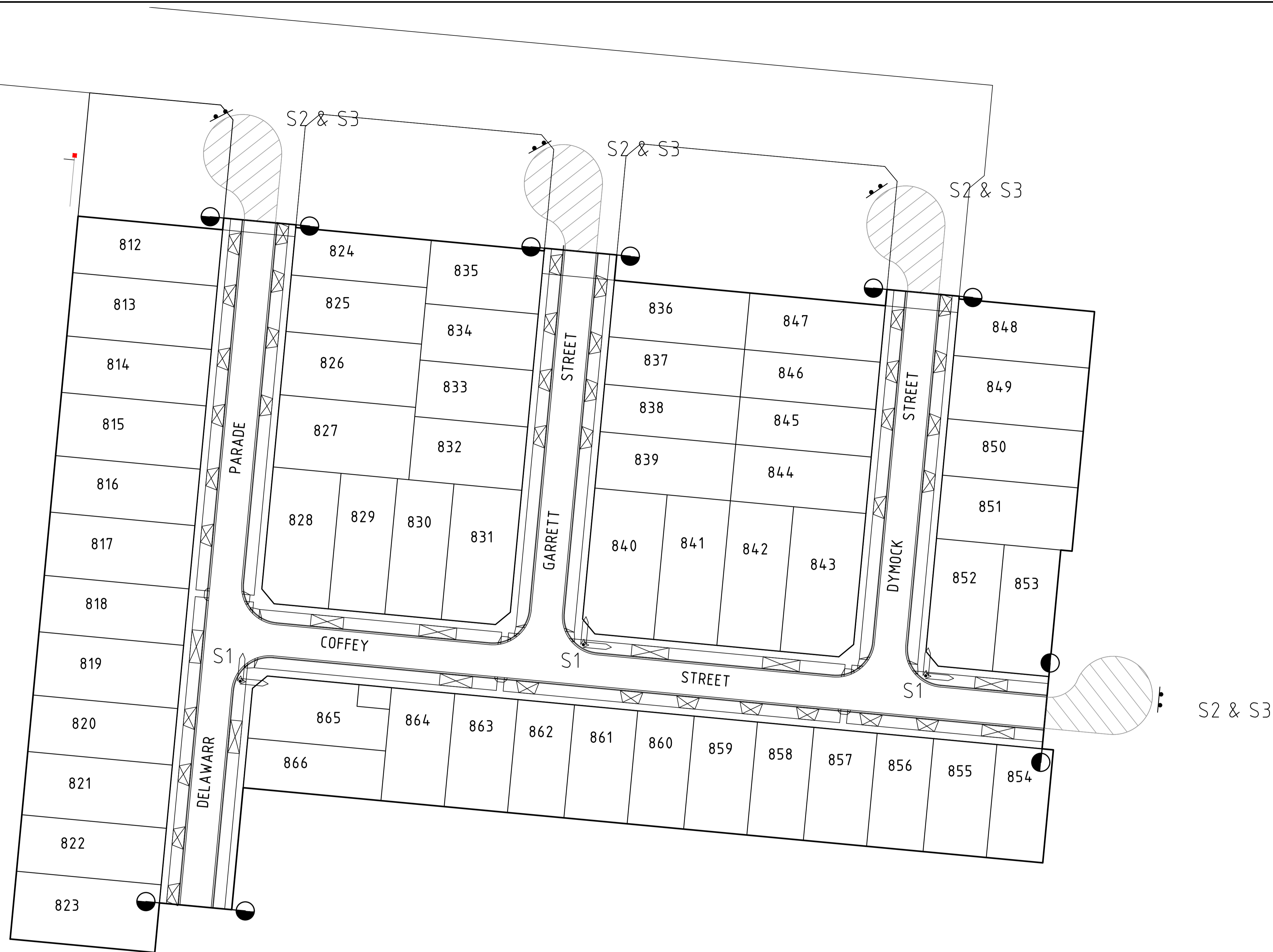
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16 BRIDGE STREET BENDIGO
VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

Designed H. OAKLEY-WARREN	Checked B. IBBS
Authorised C. CLARKE	Date MAY 2023

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

PRELIMINARY Dwg No: 309101CR700 Rev: B



LEGEND

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

S2 G9-20

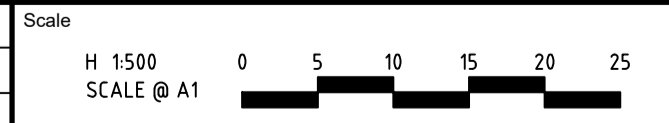
S3 D4-5

NOTES:

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

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Rev	Amendments	Approved	Date
B	UPSIZED DRAINAGE IN REAR OF FUTURE LOTS	H. O.	19/05/23
A	PRELIMINARY ISSUE	B.I.	25/11/22



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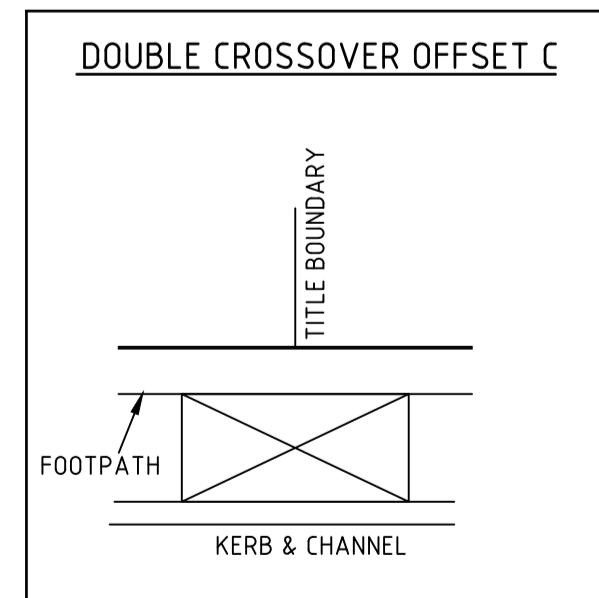
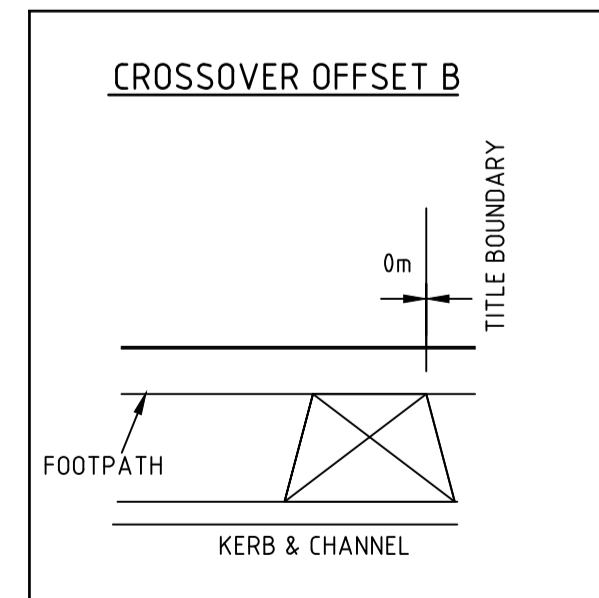
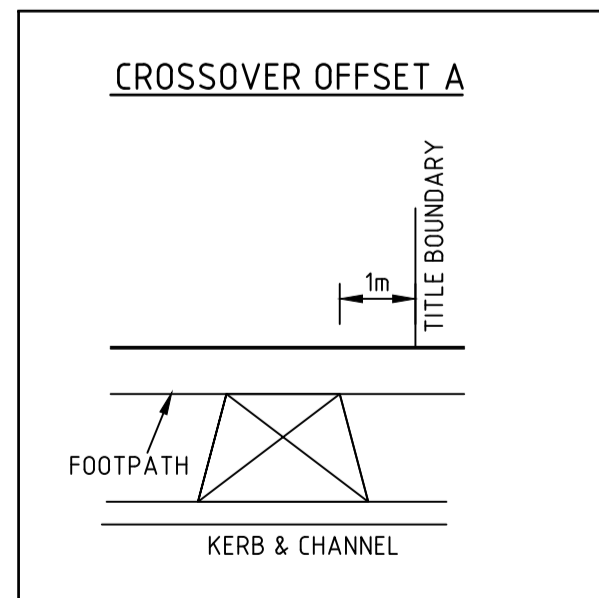
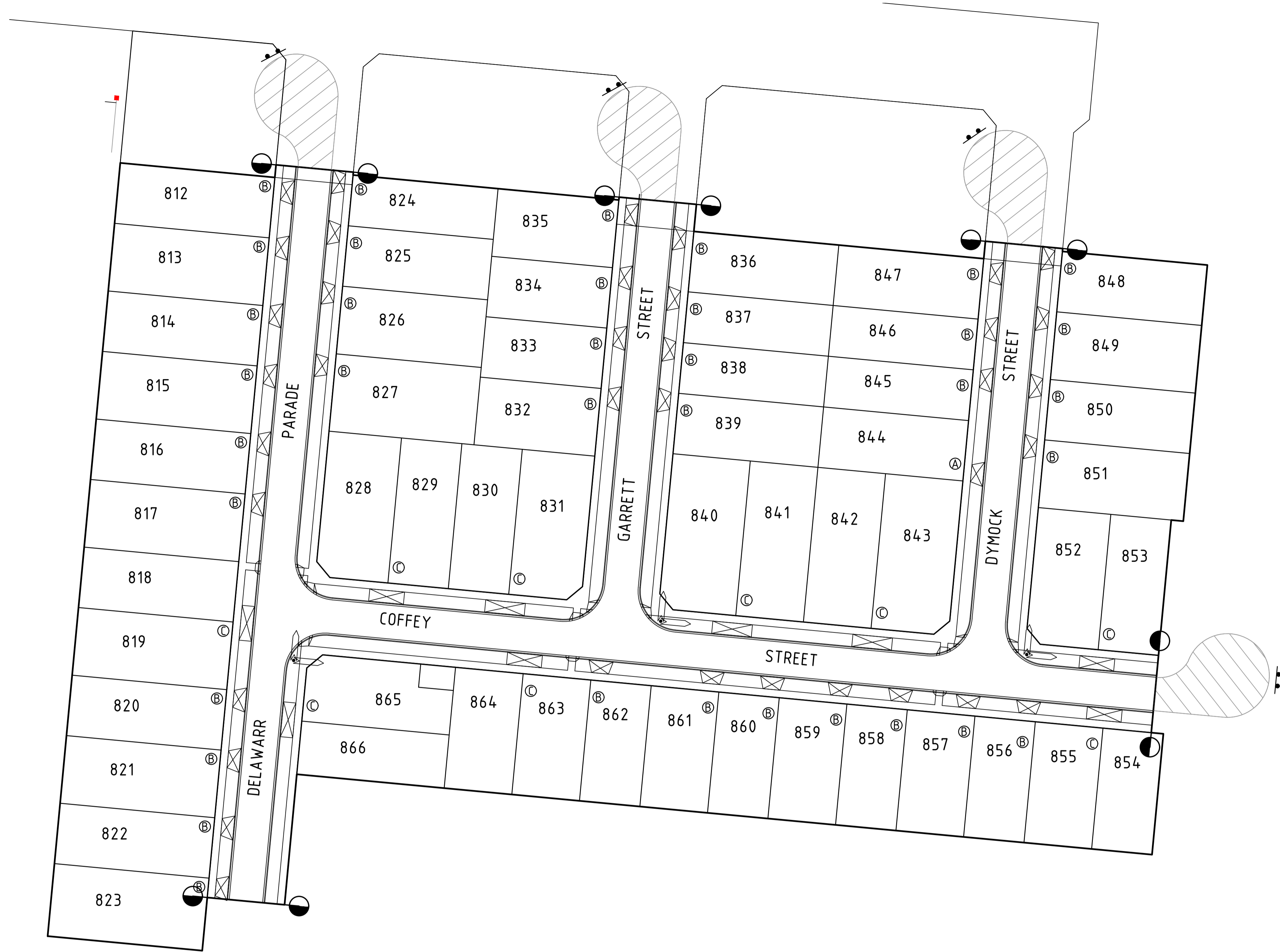
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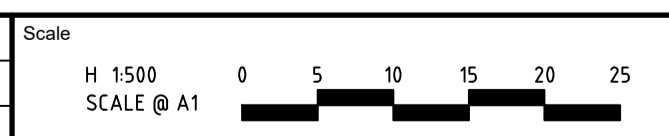
**PROVENANCE ESTATE
 STAGE 8
 ROAD AND DRAINAGE
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Rev	Amendments	Approved	Date
B	UPSIZED DRAINAGE IN REAR OF FUTURE LOTS	H. O.	19/05/23
A	PRELIMINARY ISSUE	B.I.	25/11/22



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