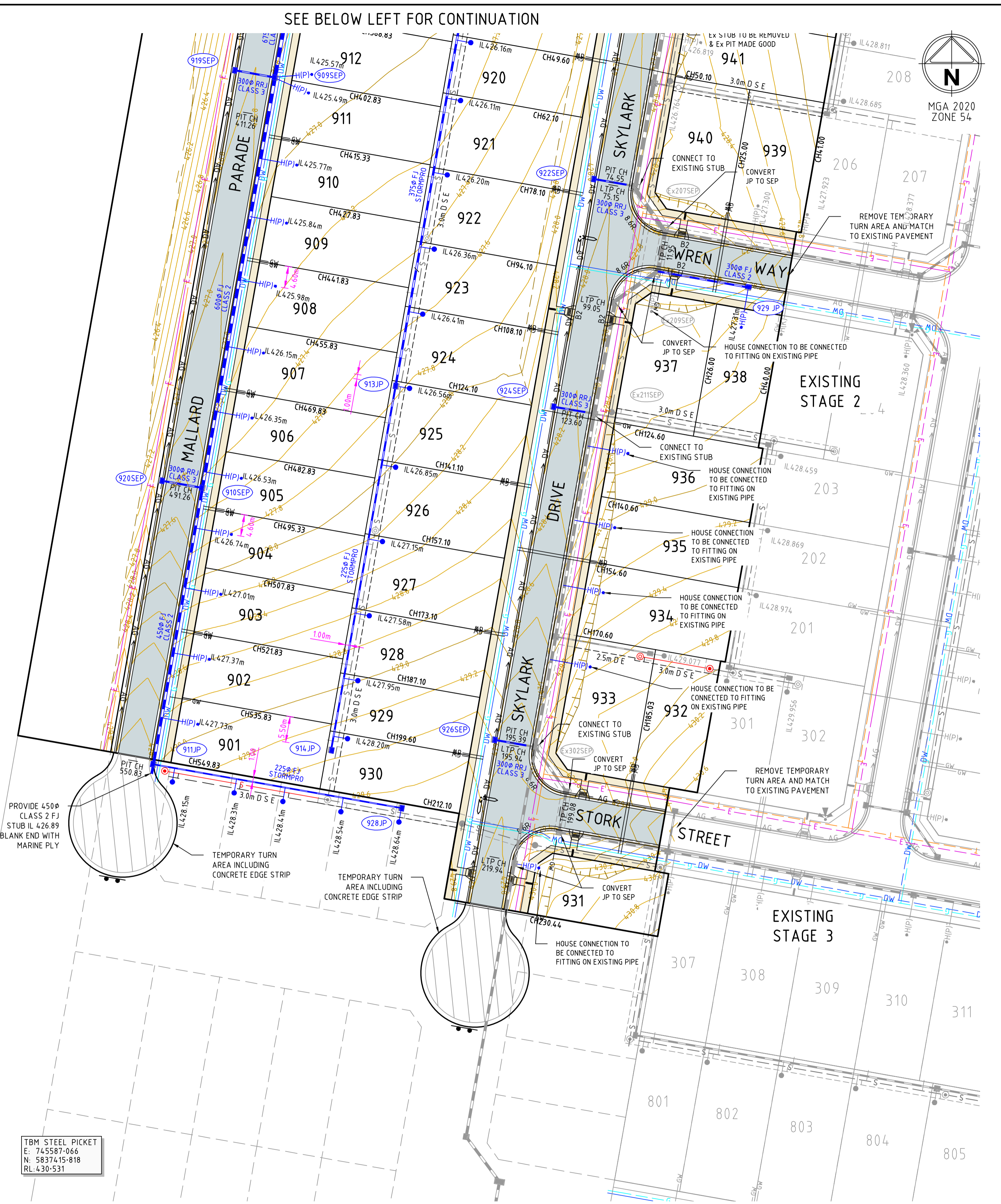


STORMWATER RETENTION  
 RB4 WETLANDS  
 REFER TO 308493WD100-WD704

SEE ABOVE RIGHT FOR CONTINUATION

**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.

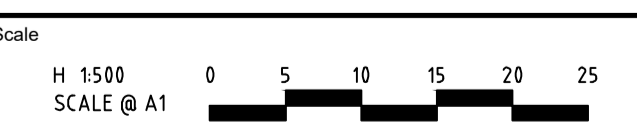


SEE BELOW LEFT FOR CONTINUATION

TBM STEEL PICKET  
 E: 745587-066  
 N: 5837415-818  
 RL: 430-531

file name: 309954CR200.dwg, layout name: CD200, created by: Ashley Wilkie, file location: G:\309954\CD200\309954.dwg, LALAD plot date: 16/10/2022 15:27, Plot Sheet 2 of 18 Sheets

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	04/10/22
D	RB XING, DIMS & PIT NUMBERS AMENDED	AW	26/09/22
C	ISSUED FOR TENDER	A.W	15/08/22
B	INTERNAL SPIIRE AMENDMENTS	AW	01/06/22
A	FOR APPROVAL	AW	20/04/22



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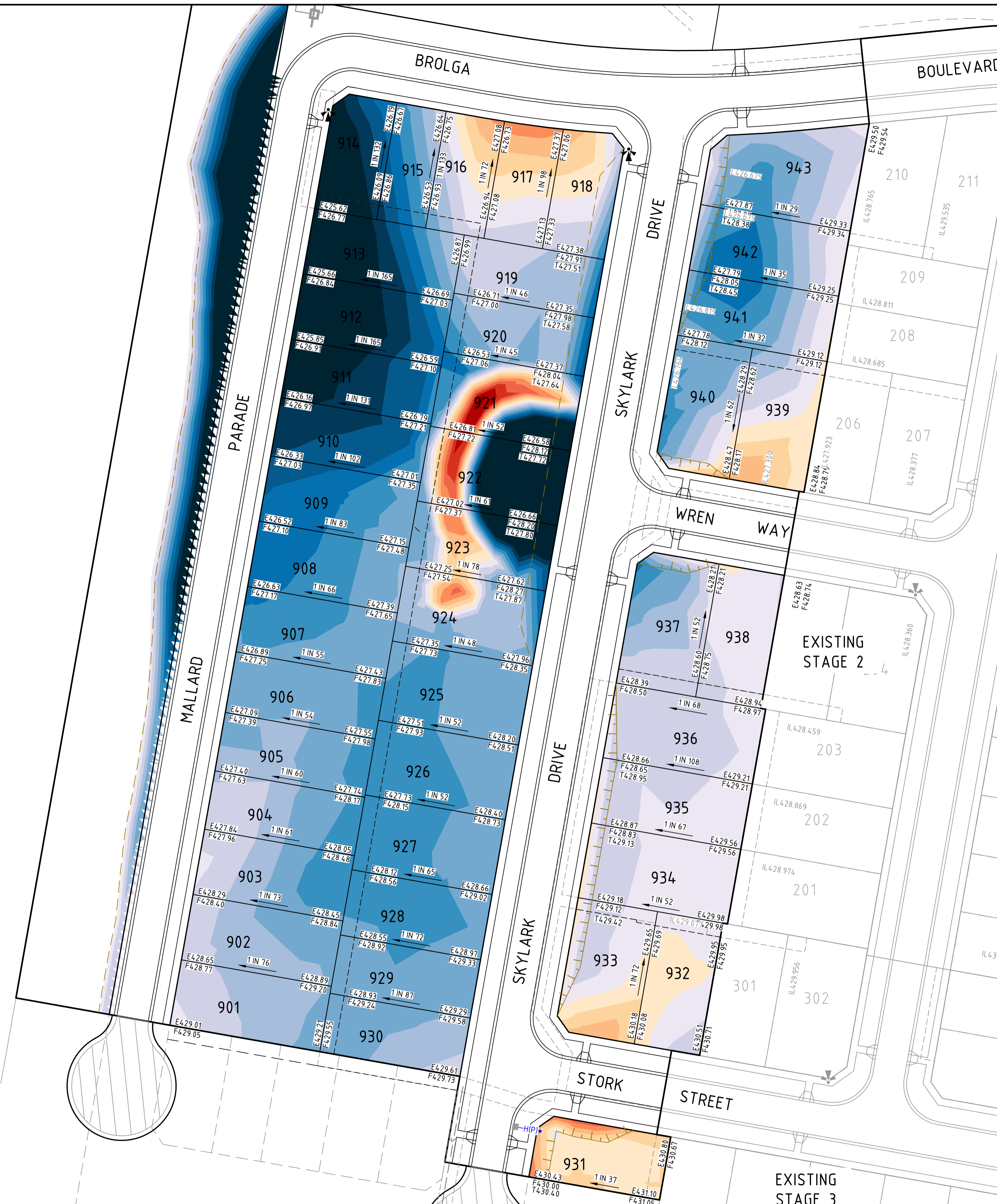
Designed  
**S.WOOD**  
 Authorised  
**A.WILKIE**

Checked  
**B.IBBS**  
 Date  
 15/08/22

**CONROY'S GREEN  
 STAGE 9  
 ROAD AND DRAINAGE  
 ROAD LAYOUT PLANS - FACE PLAN**  
 BALLARAT CITY COUNCIL  
 SAN HUBERTO PROPERTIES P/L

**TENDER** Drg No **309954CR200** Rev **0**

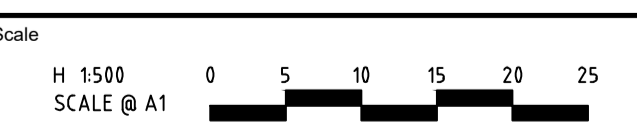
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FROM	TO	COLOUR
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-0.80	-0.70	
-0.70	-0.60	
-0.60	-0.50	
-0.50	-0.40	
-0.40	-0.30	
-0.30	-0.20	
-0.20	-0.10	
-0.10	0.00	
0.00	0.10	
0.10	0.20	
0.20	0.30	
0.30	0.40	
0.40	0.50	
0.50	0.60	
0.60	0.70	
0.70	0.80	
0.80	+	



**WARNING**  
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file name: 309954CR201.dwg, layout name: CR201, plotted by: Ashley Wilkie, file location: G:\309954\309954\Level\ACAD\plot.dwg, 04/10/2022 15:52, Pk Sheet 3 of 18 Sheets

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	04/10/22
C	ISSUED FOR TENDER	A.W	15/08/22
B	INTERNAL SPIIRE AMENDMENTS	AW	01/06/22
A	FOR APPROVAL	AW	20/04/22



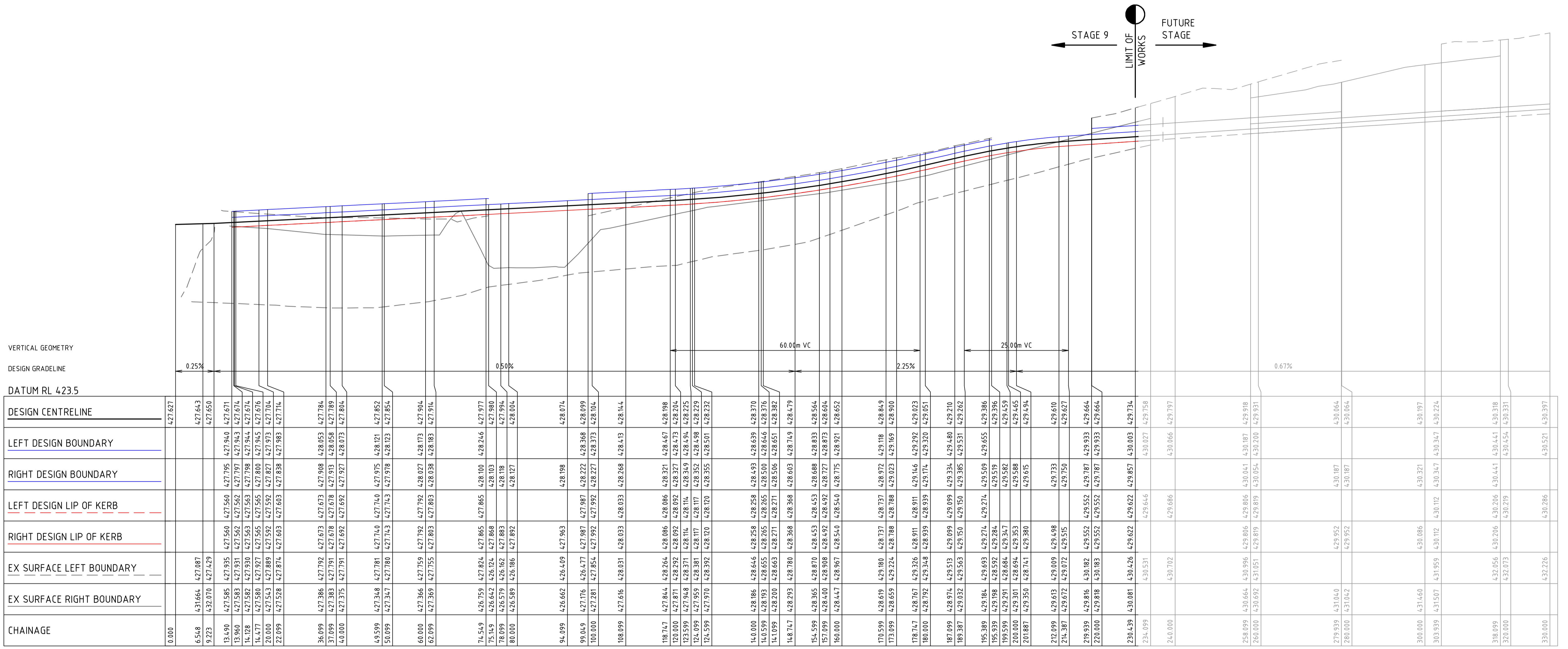
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 S.WOOD  
 Authorised  
 A.WILKIE  
 Checked  
 B.IBBS  
 Date  
 15/08/22

**CONROY'S GREEN**  
**STAGE 9**  
 ROAD AND DRAINAGE  
 ROAD LAYOUT PLANS - EARTHWORKS PLAN  
 BALLARAT CITY COUNCIL  
 SAN HUBERTO PROPERTIES P/L  

 Drg No  
**309954CR201**  
 Rev  
**0**



SKYLARK DRIVE

Scale	H 1500	V 150
0	5	1
1	10	2
2	15	3
3	20	4
4	25	5

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	04/10/22
C	ISSUED FOR TENDER	A.W	15/08/22
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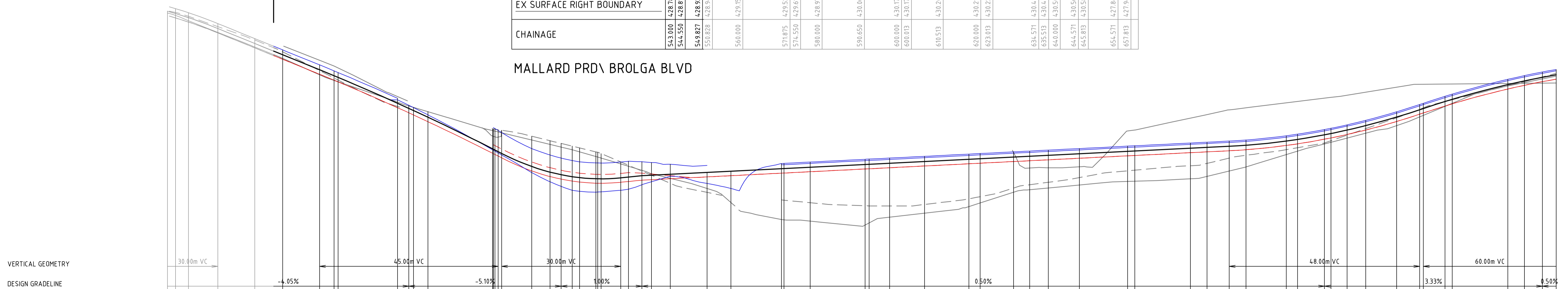
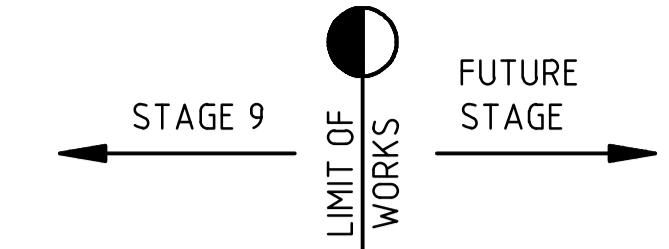
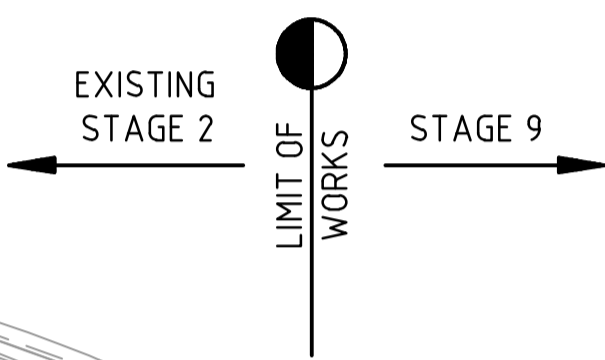
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Designed <b>S.WOOD</b>	Checked <b>B.IBBS</b>
Authorised <b>A.WILKIE</b>	Date 15/08/22

**CONROY'S GREEN**  
**STAGE 9**  
**ROAD AND DRAINAGE**  
**ROAD LONG SECTIONS - SHEET 1**  
BALLARAT CITY COUNCIL  
SAN HUBERTO PROPERTIES P/L

**CONSTRUCTION** Drg No **309954CR300** Rev **0**

File name: 309954CR301.dwg, Location: Home, CS301, Plotted by: Ashley Wilkie, File Location: G:\301\309954\1\DrawCAD\Plot\date: 06/10/2022 15:27 PM, Sheet 5 of 18 Sheets



MALLARD PRD\ BROLGA BLVD																																																					
VERTICAL GEOMETRY																																																					
DESIGN GRADELINE																																																					
DATUM RL 423.0																																																					
DESIGN CENTRELINE	430.572	430.572	430.572	430.572	430.572	430.572	430.572	430.572	430.572	430.572																																											
LEFT DESIGN BOUNDARY	430.464	430.464	430.464	430.464	430.464	430.464	430.464	430.464	430.464	430.464																																											
RIGHT DESIGN BOUNDARY	430.681	430.681	430.681	430.681	430.681	430.681	430.681	430.681	430.681	430.681																																											
LEFT DESIGN LIP OF KERB	430.210	430.210	430.210	430.210	430.210	430.210	430.210	430.210	430.210	430.210																																											
RIGHT DESIGN LIP OF KERB	430.929	430.929	430.929	430.929	430.929	430.929	430.929	430.929	430.929	430.929																																											
EX SURFACE LEFT BOUNDARY	429.109	429.109	429.109	429.109	429.109	429.109	429.109	429.109	429.109	429.109																																											
EX SURFACE RIGHT BOUNDARY	429.709	429.709	429.709	429.709	429.709	429.709	429.709	429.709	429.709	429.709																																											
CHAINAGE	198.000	200.000	202.269	210.681	220.000	227.010	236.331	244.000	244.106	255.983	280.000	280.108	281.552	281.331	282.220	289.809	294.417	297.220	300.000	301.864	306.994	306.446	307.300	310.220	314.207	380.000	388.827	400.000	402.827	411.263	415.327	420.000	427.827	440.000	441.827	455.827	460.000	465.612	469.827	480.000	489.612	491.263	495.327	500.000	507.827	515.612	514.550	520.000	521.827	535.827	540.000	544.550	548.000

VERTICAL GEOMETRY	
DESIGN GRADELINE	
DATUM RL 426.5	
DESIGN CENTRELINE	428.830
LEFT DESIGN BOUNDARY	428.860
RIGHT DESIGN BOUNDARY	428.860
LEFT DESIGN LIP OF KERB	428.910
RIGHT DESIGN LIP OF KERB	428.860
EX SURFACE LEFT BOUNDARY	429.270
EX SURFACE RIGHT BOUNDARY	429.270
CHAINAGE	543.000

MALLARD PRD\ BROLGA BLVD			
0	ISSUED FOR CONSTRUCTION	A.W	04/10/22
C	ISSUED FOR TENDER	A.W	15/08/22
B	INTERNAL SPIIRE AMENDMENTS	AW	01/06/22
A	FOR APPROVAL	AW	20/04/22
Rev	Amendments	Approved	Date

Scale

H 1:500  
SCALE @ A1  
V 1:50

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Authorised  
A.WILKIE

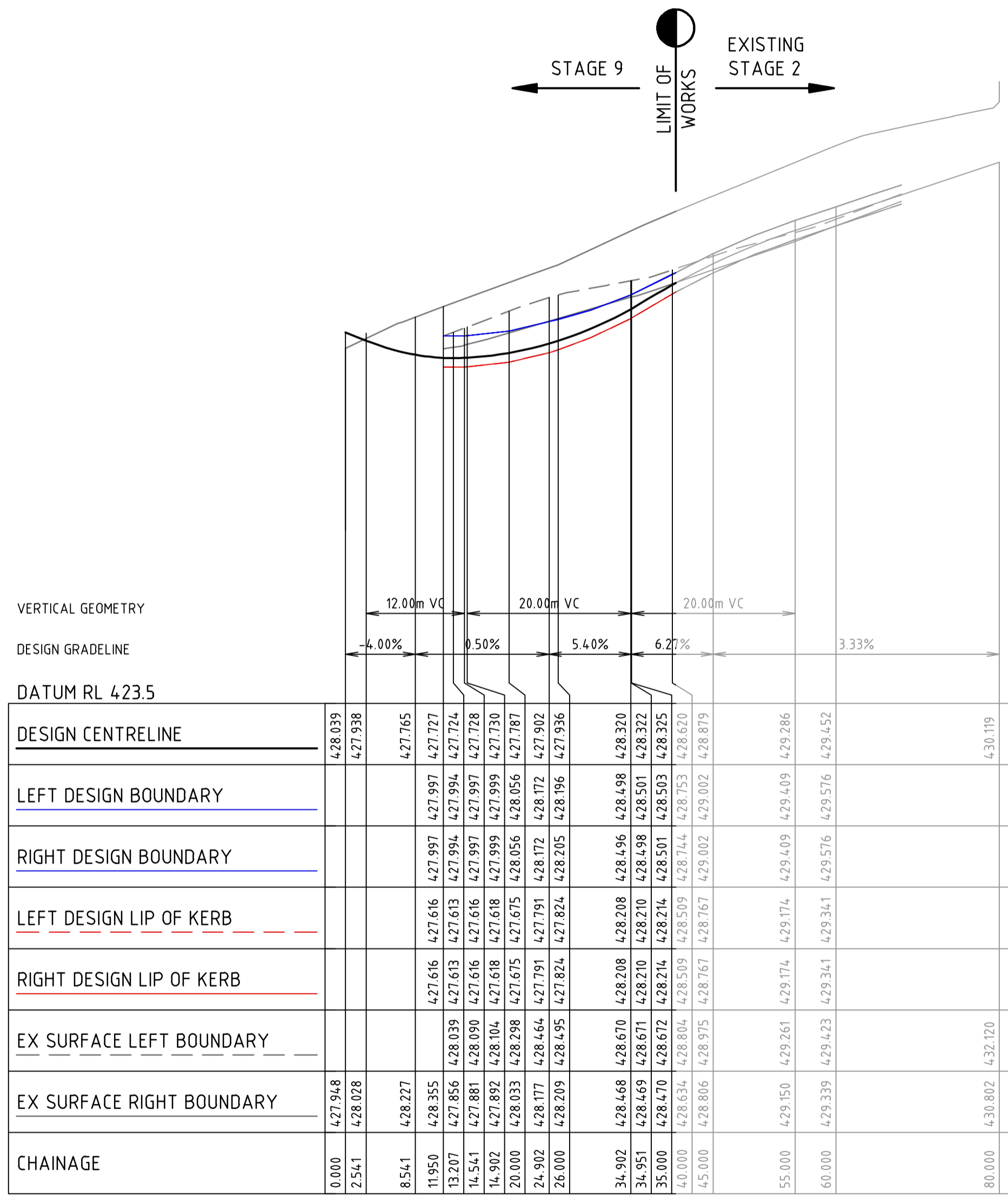
Date  
15/08/22

**CONROY'S GREEN**  
**STAGE 9**  
**ROAD AND DRAINAGE**  
**ROAD LONG SECTIONS - SHEET 2**  
BALLARAT CITY COUNCIL  
SAN HUBERTO PROPERTIES P/L

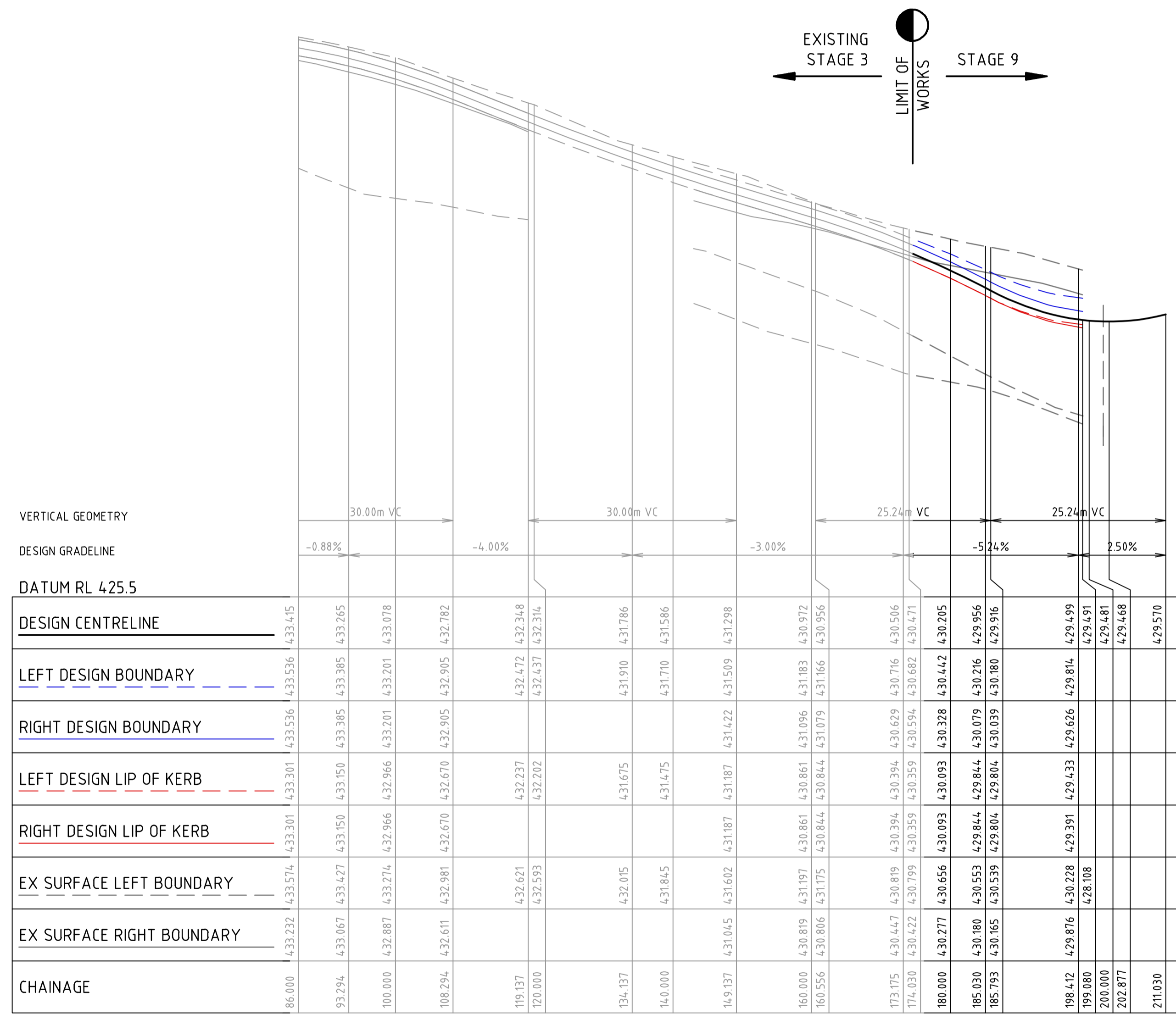
Rev 0

**CONSTRUCTION** 309954CR301

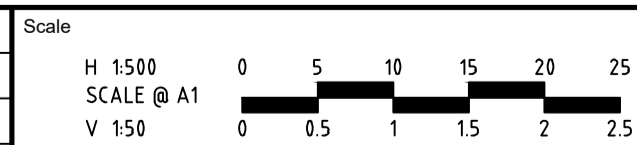
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WREN WAY



STORK STREET



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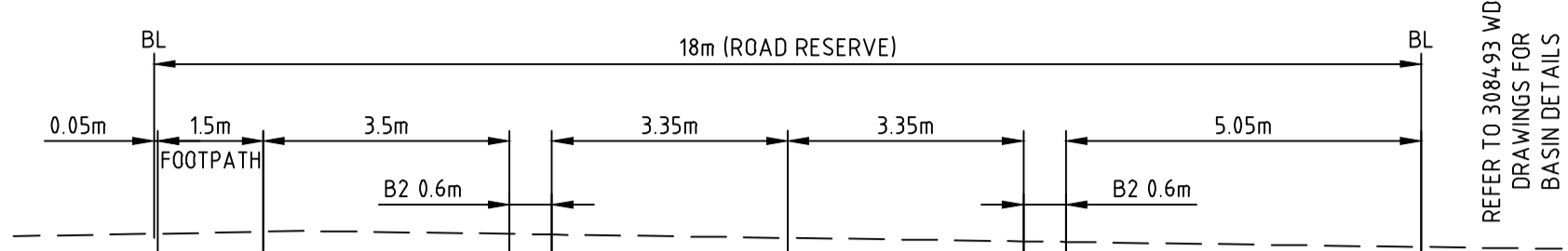
Designed  
**S.WOOD**  
 Authorised  
**A.WILKIE**

Checked  
**B.IBBS**  
 Date  
 15/08/22

**CONROY'S GREEN**  
**STAGE 9**  
**ROAD AND DRAINAGE**  
**ROAD LONG SECTIONS - SHEET 3**  
 BALLARAT CITY COUNCIL  
 SAN HUBERTO PROPERTIES P/L

**CONSTRUCTION** Drg No **309954CR302** Rev **0**

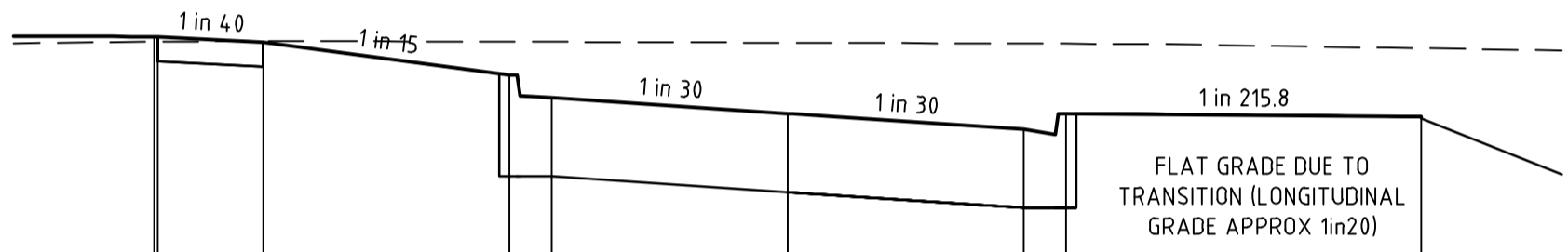
**FILLING NOTE**  
 ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO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



DATUM R.L. 4.25.0

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EXISTING SURFACE LEVEL									
OFFSET									

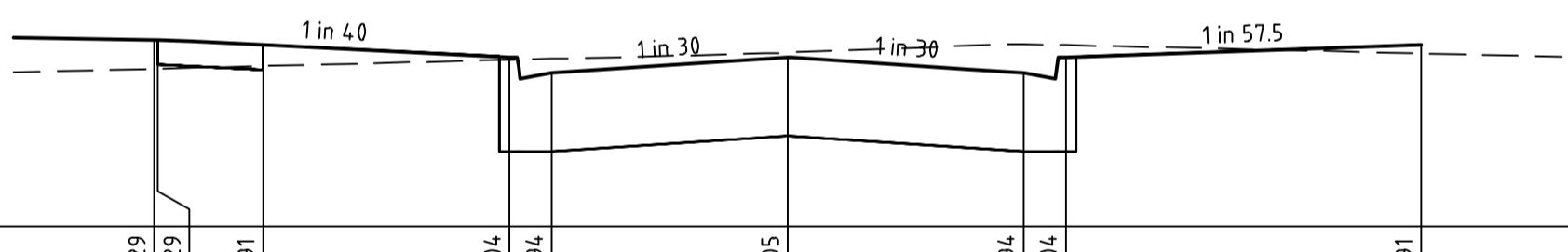
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DATUM R.L. 4.25.0

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EXISTING SURFACE LEVEL									
OFFSET									

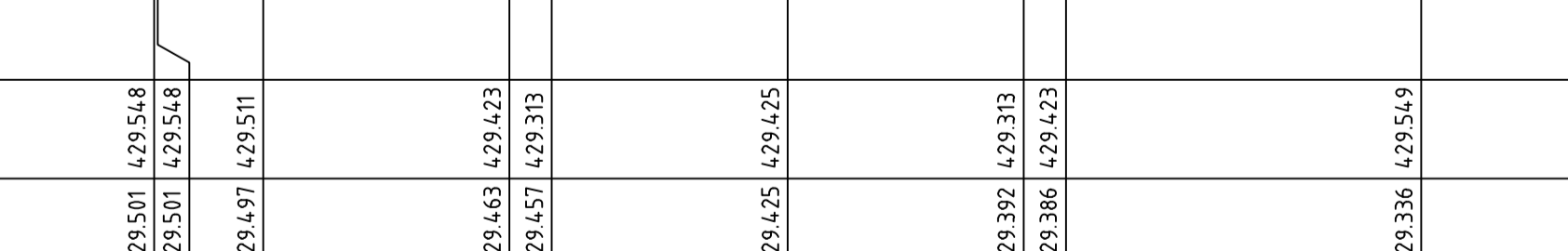
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DATUM R.L. 4.27.0

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EXISTING SURFACE LEVEL									
OFFSET									

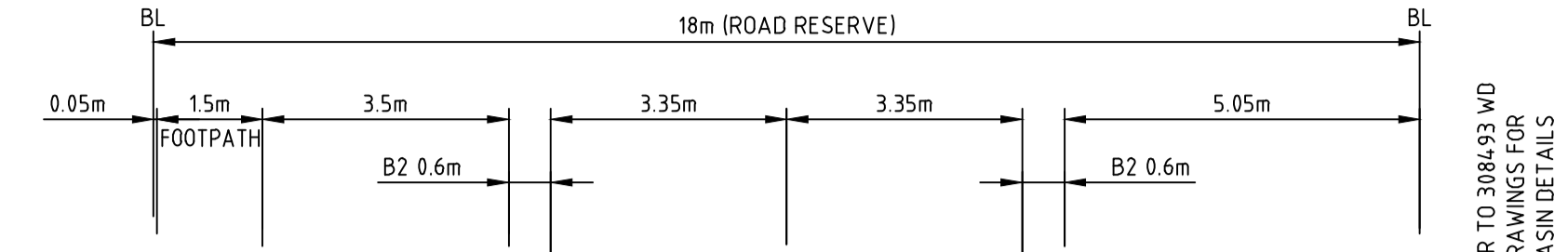
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DATUM R.L. 4.28.0

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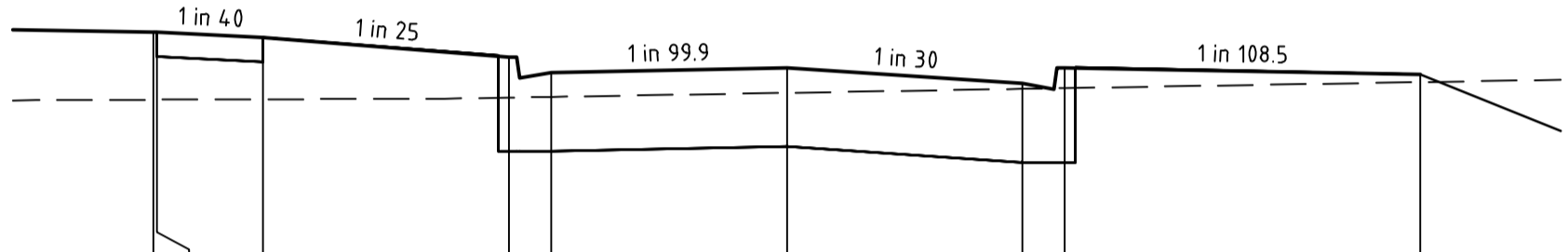
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EXISTING SURFACE LEVEL									
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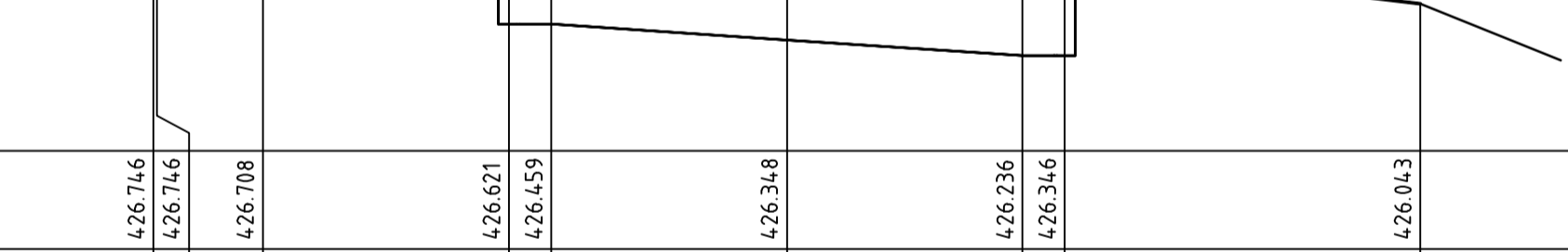
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DATUM R.L. 4.25.0

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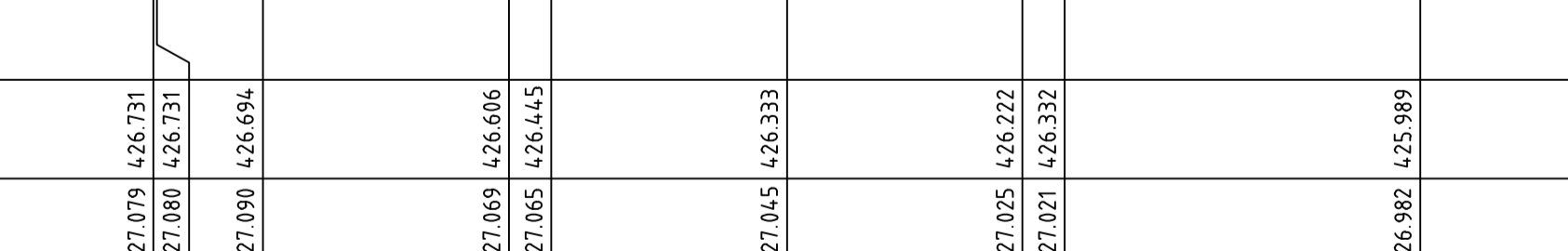
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DATUM R.L. 4.25.0

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EXISTING SURFACE LEVEL									
OFFSET									

BROLGA BLVD/ MALLARD PDE CH 314.21



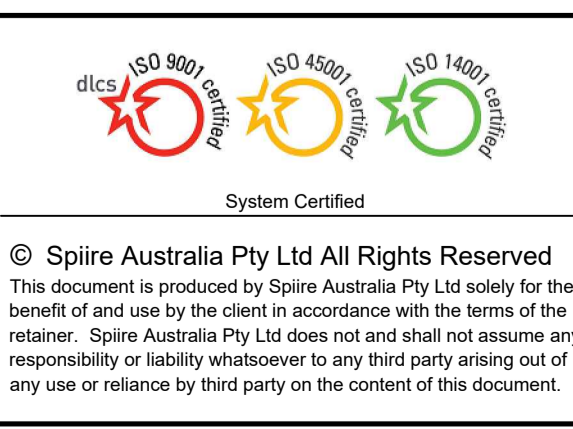
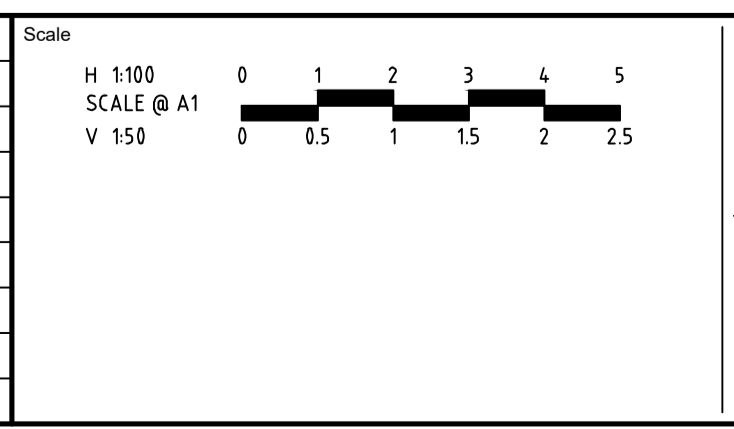
DATUM R.L. 4.25.0

DESIGN SURFACE LEVEL									
EXISTING SURFACE LEVEL									
OFFSET									

BROLGA BLVD/ MALLARD PDE CH 301.86

file name: 309954CR400.dwg, layout name: CR400, plotted by: Anthony Wilkie, file location: G:\309954\Level\ACAD\plot date: 04/10/22 15:27, Plot Sheet: 1 of 18 Sheets

0	ISSUED FOR CONSTRUCTION	A.W	04/10/22
C	ISSUED FOR TENDER	A.W	15/08/22
B	INTERNAL SPIIRE AMENDMENTS	AW	01/06/22
A	FOR APPROVAL	AW	20/04/22
Rev	Amendments	Approved	Date

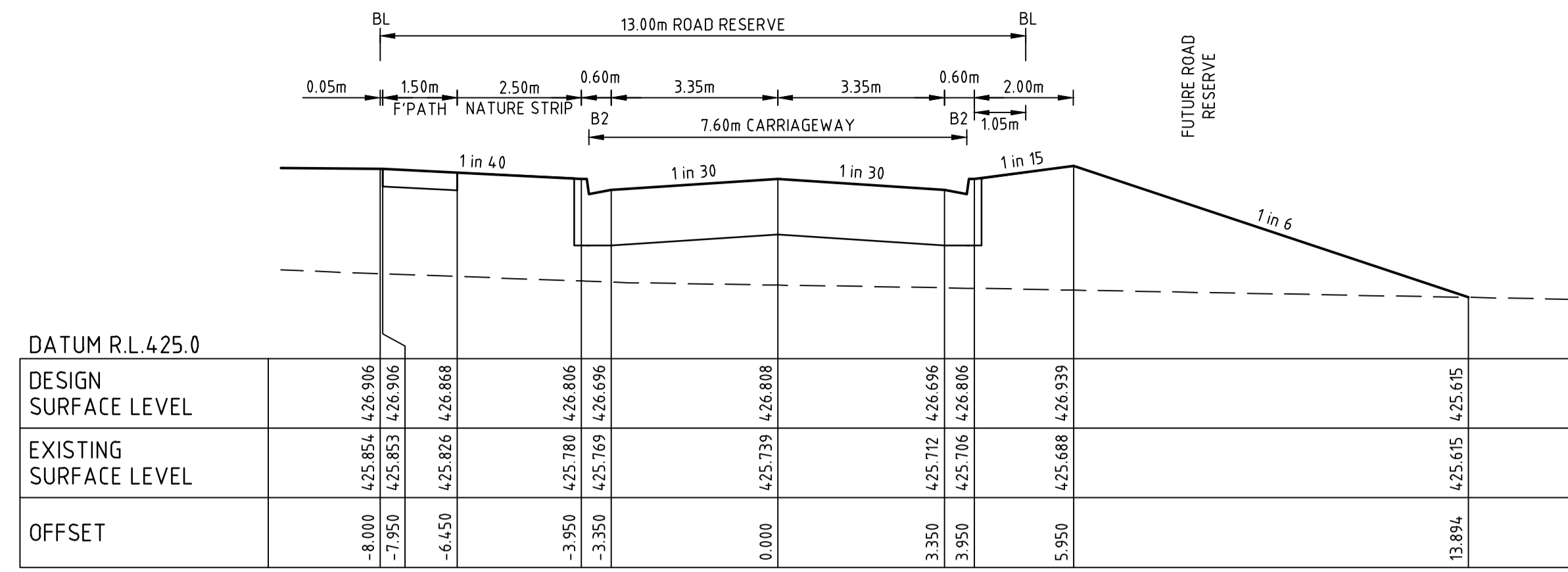


Designed S.WOOD	Checked B.IBBS
Authorised A.WILKIE	Date 15/08/22

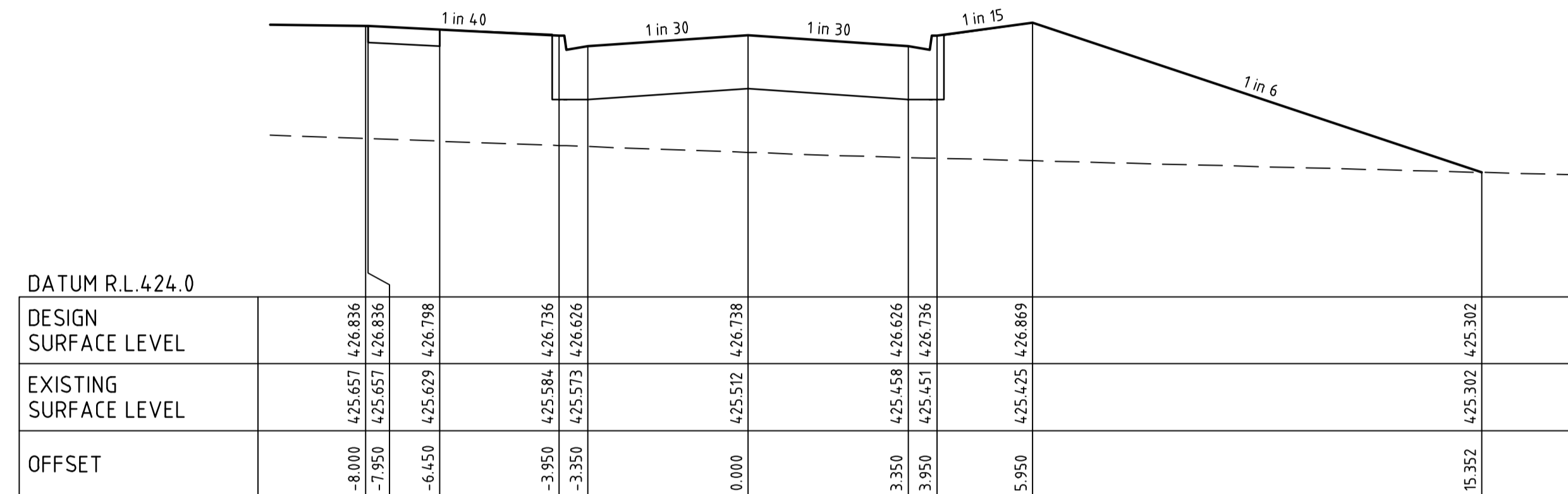
**CONROY'S GREEN**  
**STAGE 9**  
 ROAD AND DRAINAGE  
 ROAD CROSS SECTIONS - SHEET 1  
 BALLARAT CITY COUNCIL  
 SAN HUBERTO PROPERTIES P/L

**CONSTRUCTION** 309954CR400

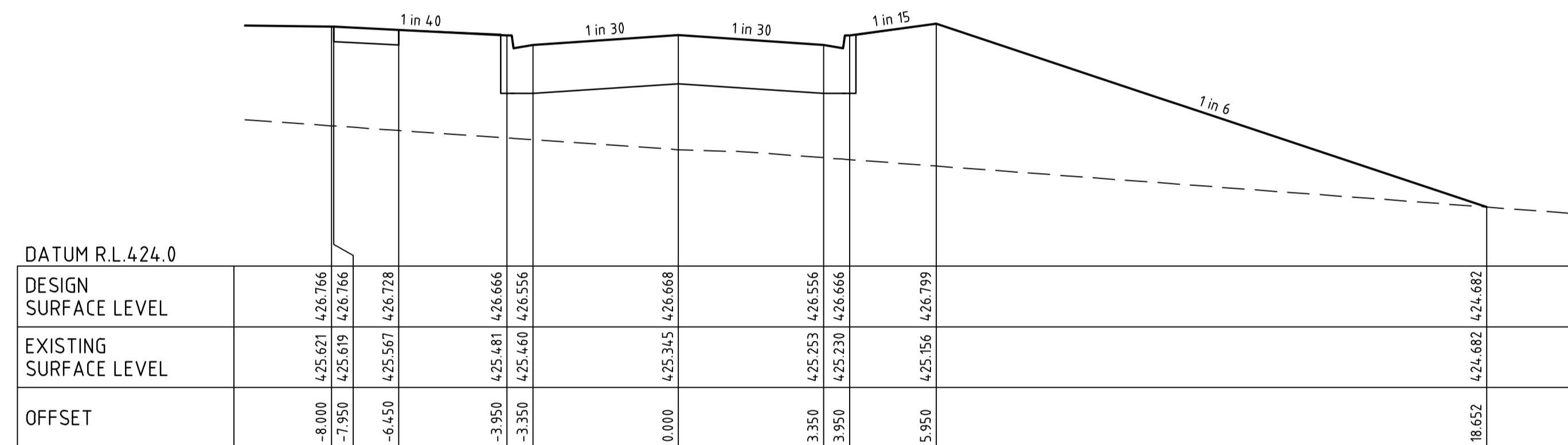
Rev 0



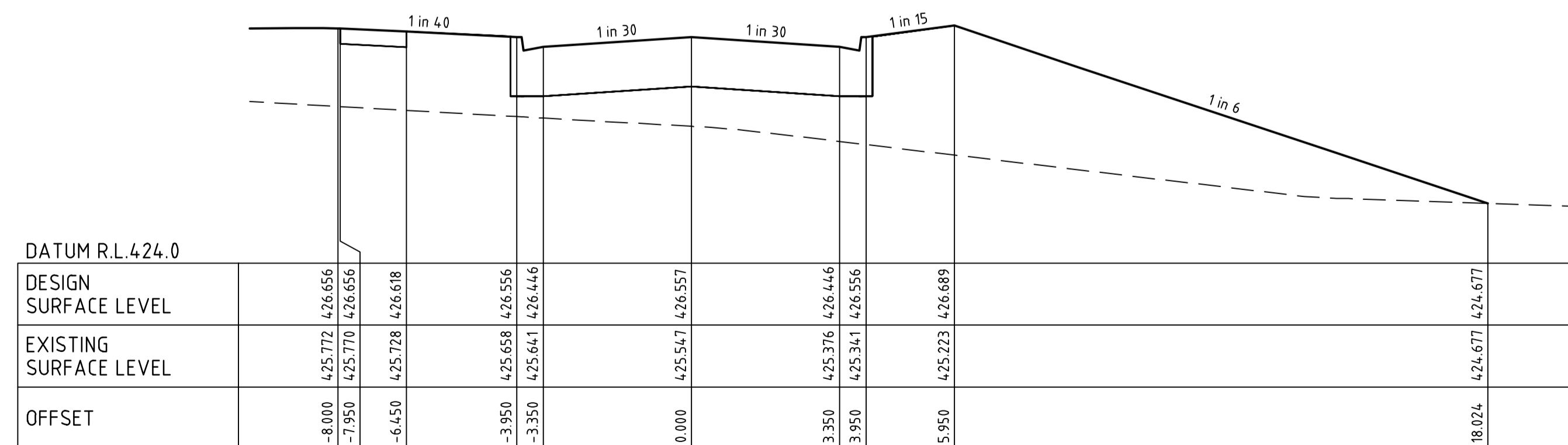
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BROLGA BLVD/ MALLARD PDE CH 388.83



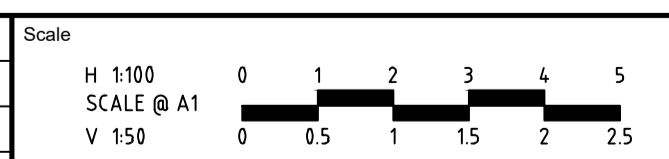
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BROLGA BLVD/ MALLARD PDE CH 352.76

file name: 309954CR401.dwg, layout name: CR401, plotted by: Ashley Wilkie, file location: G:\309954\CON\309954\CON\CAD\plot date: 04/10/2022 15:27:52, Plot Sheet: 8 of 18 Sheets

0	ISSUED FOR CONSTRUCTION	A.W	04/10/22
C	ISSUED FOR TENDER	A.W	15/08/22
B	INTERNAL SPIIRE AMENDMENTS	AW	01/06/22
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Authorised A.WILKIE	Date 15/08/22

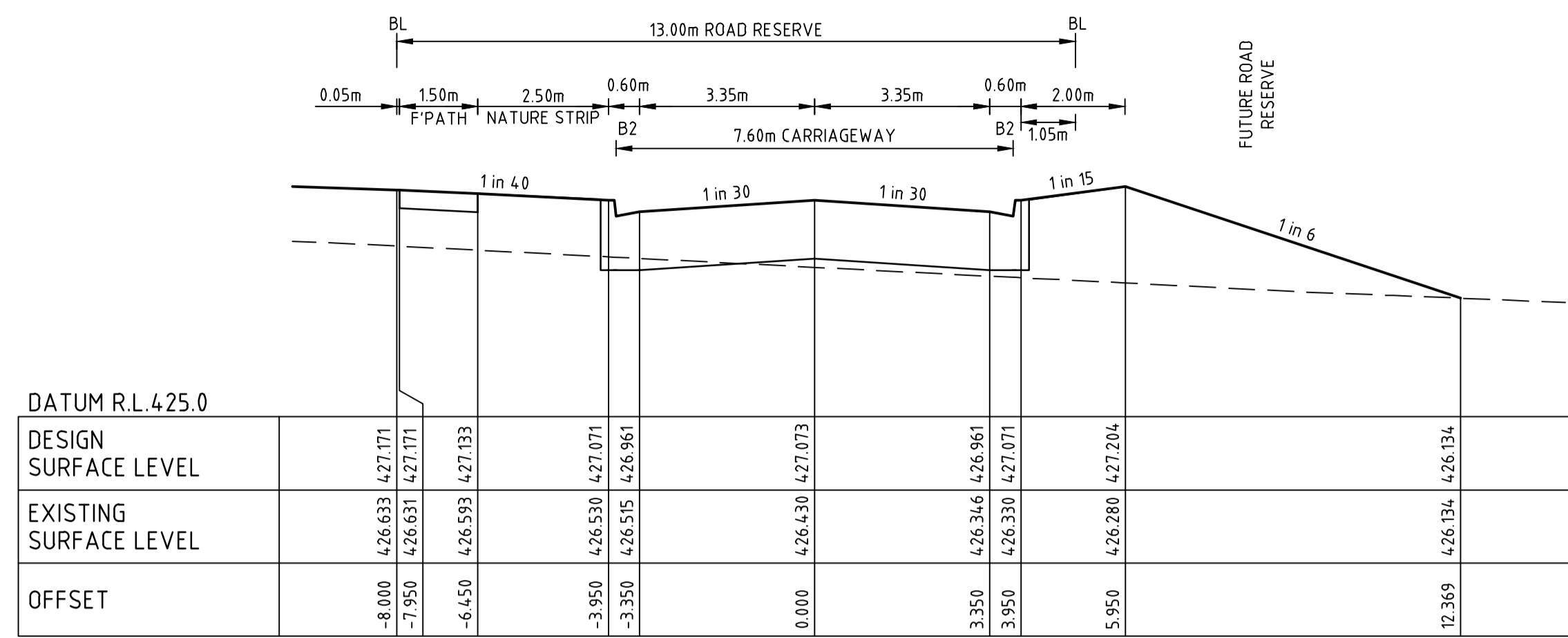
**CONROY'S GREEN**  
STAGE 9  
ROAD AND DRAINAGE  
ROAD CROSS SECTIONS - SHEET 2  
BALLARAT CITY COUNCIL  
SAN HUBERTO PROPERTIES P/L

CONSTRUCTION 309954CR401

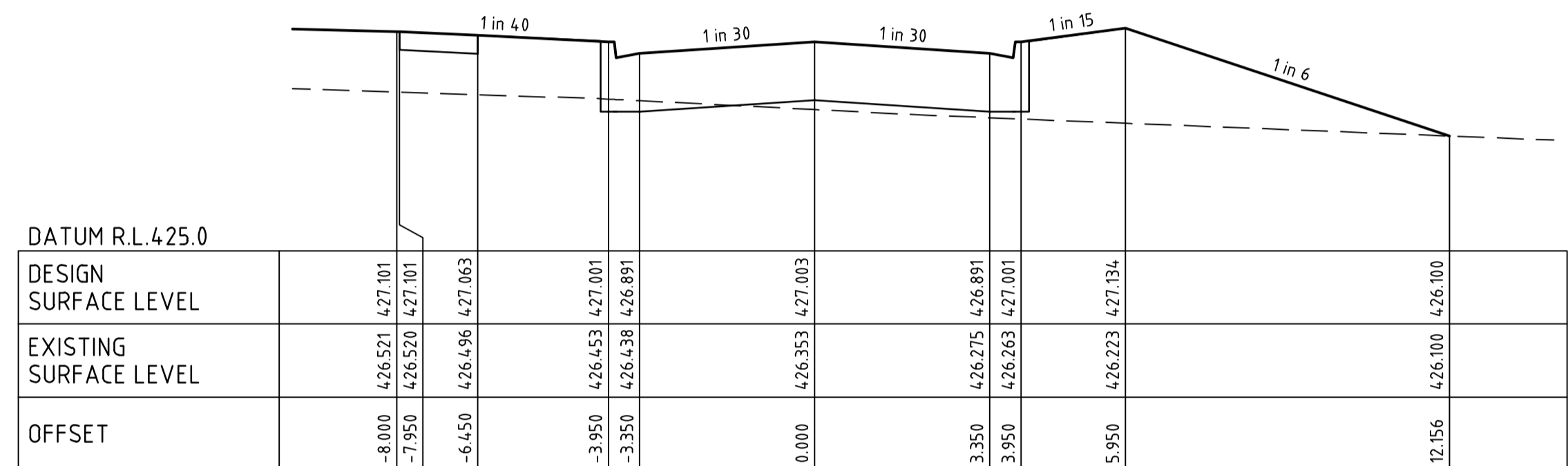
Rev 0



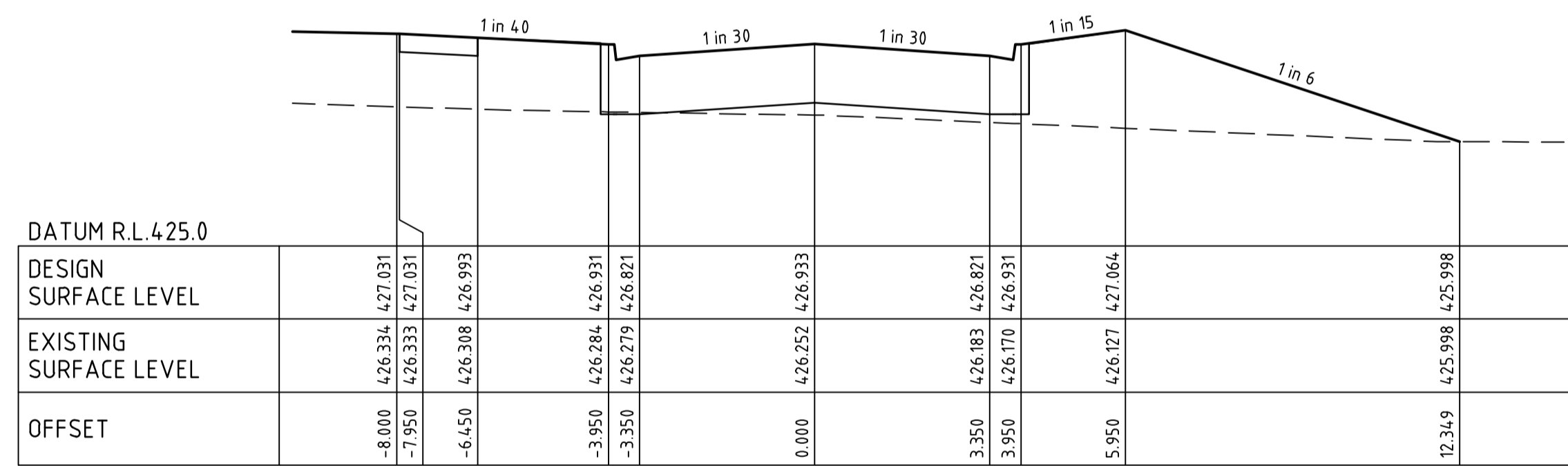
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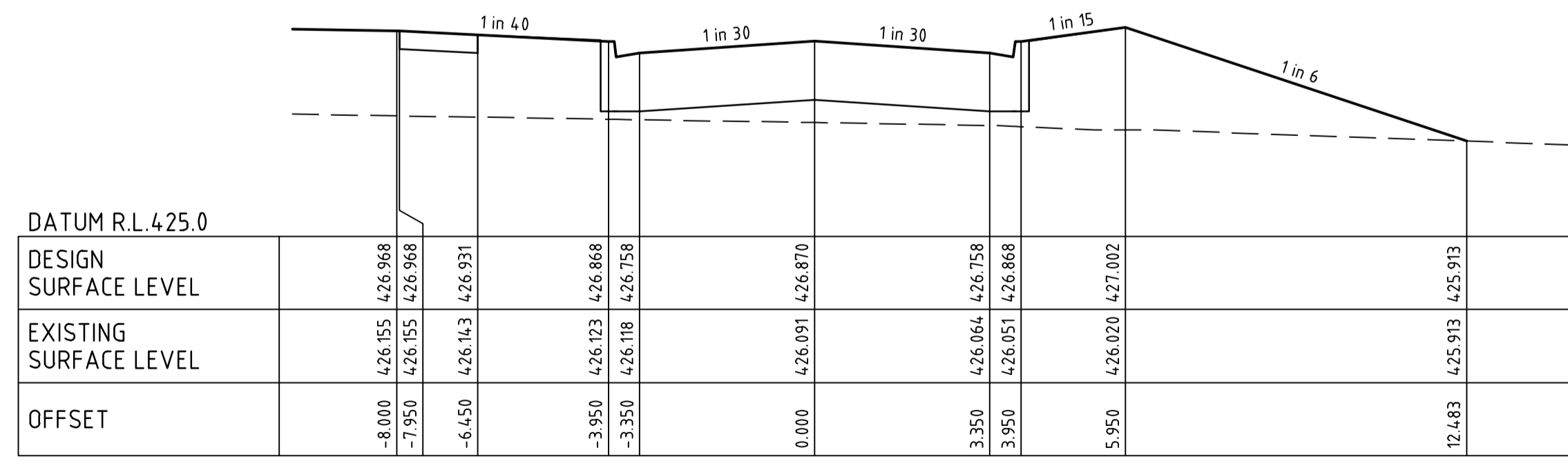
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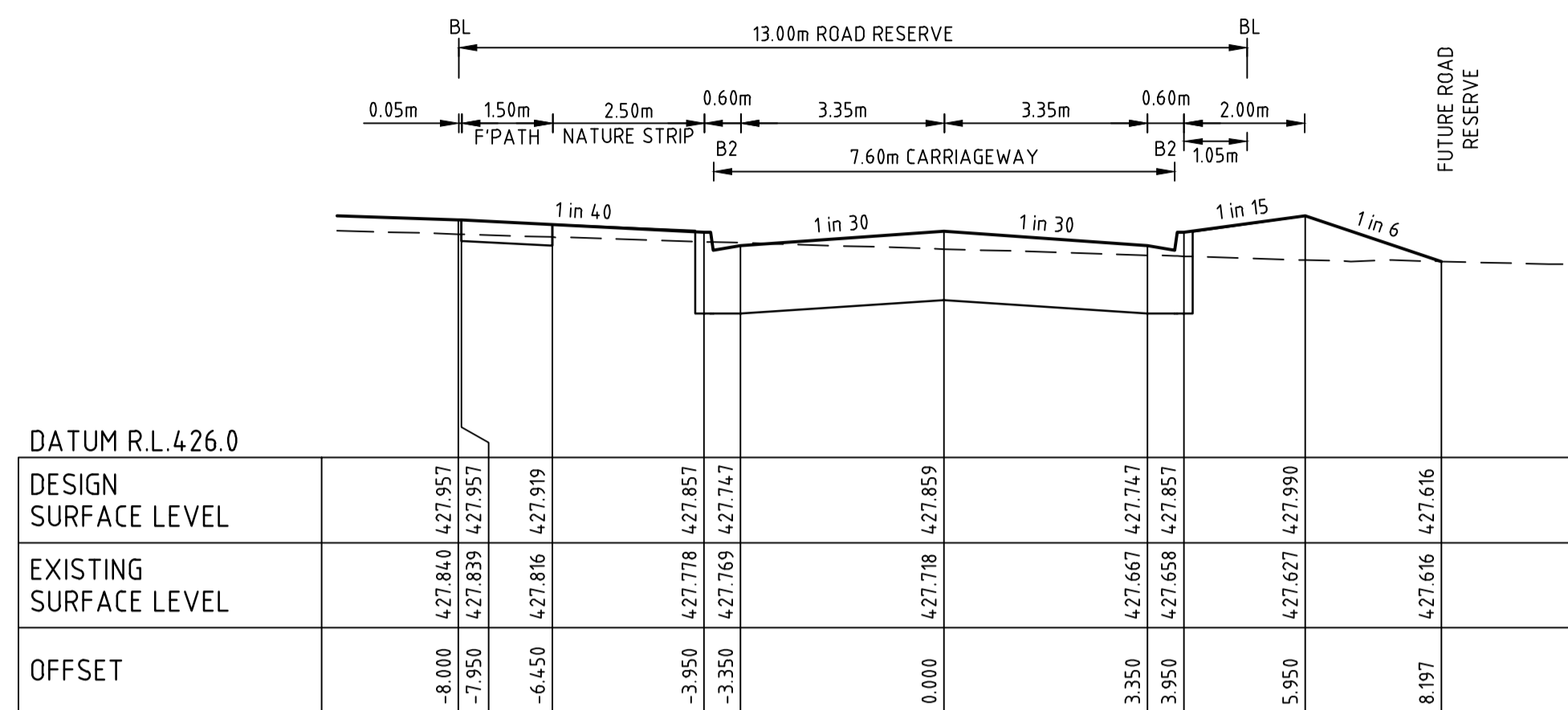
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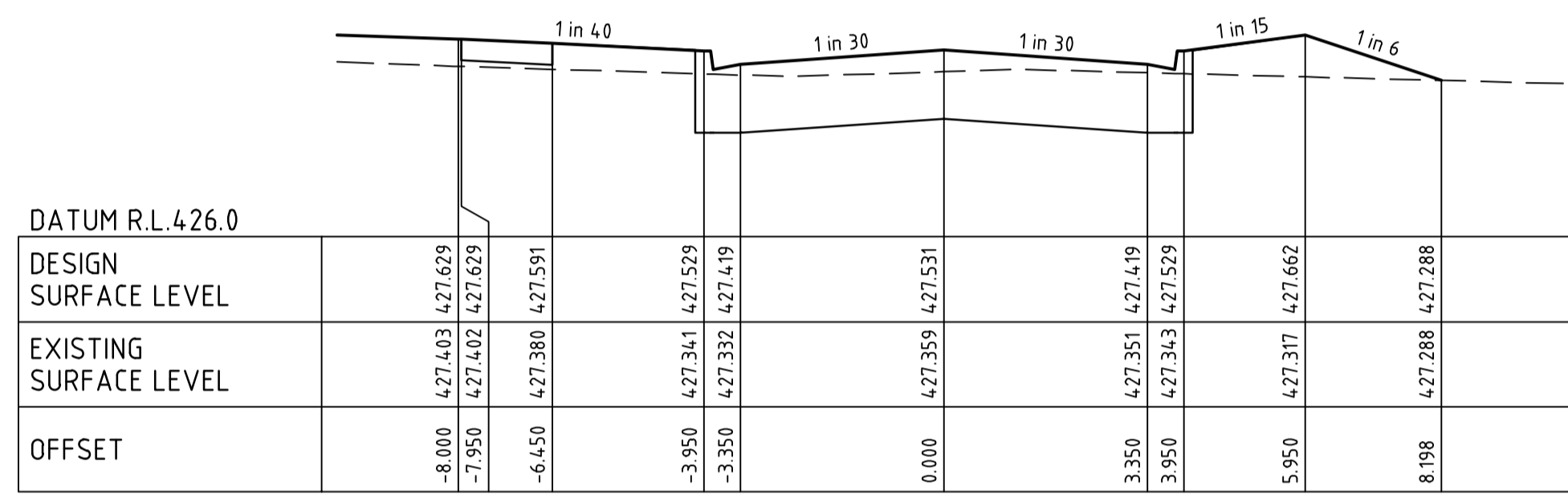
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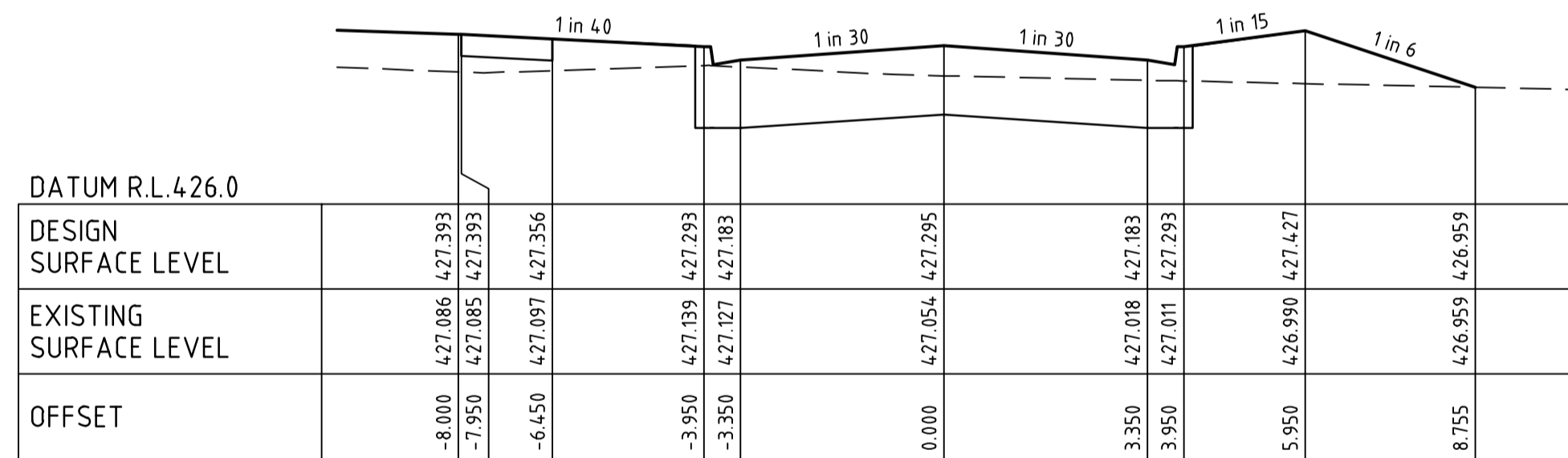
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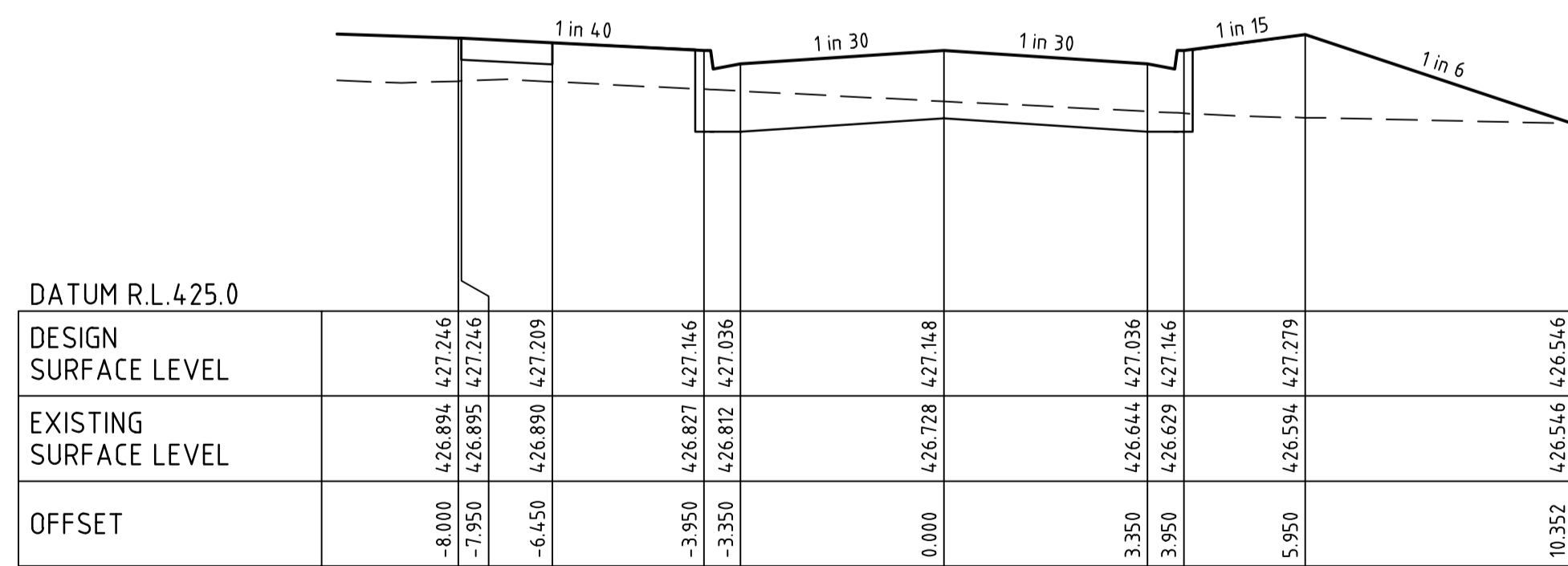
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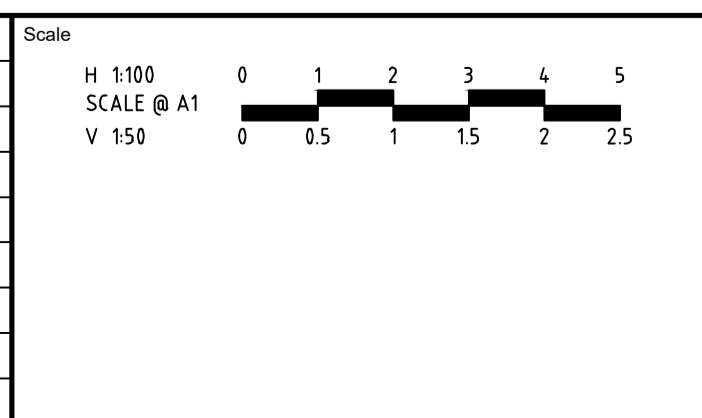


BROLGA BLVD/ MALLARD PDE CH 482.83



BROLGA BLVD/ MALLARD PDE CH 469.83

0	ISSUED FOR CONSTRUCTION	A.W	04/10/22
C	ISSUED FOR TENDER	A.W	15/08/22
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A	FOR APPROVAL	AW	20/04/22
Rev	Amendments	Approved	Date



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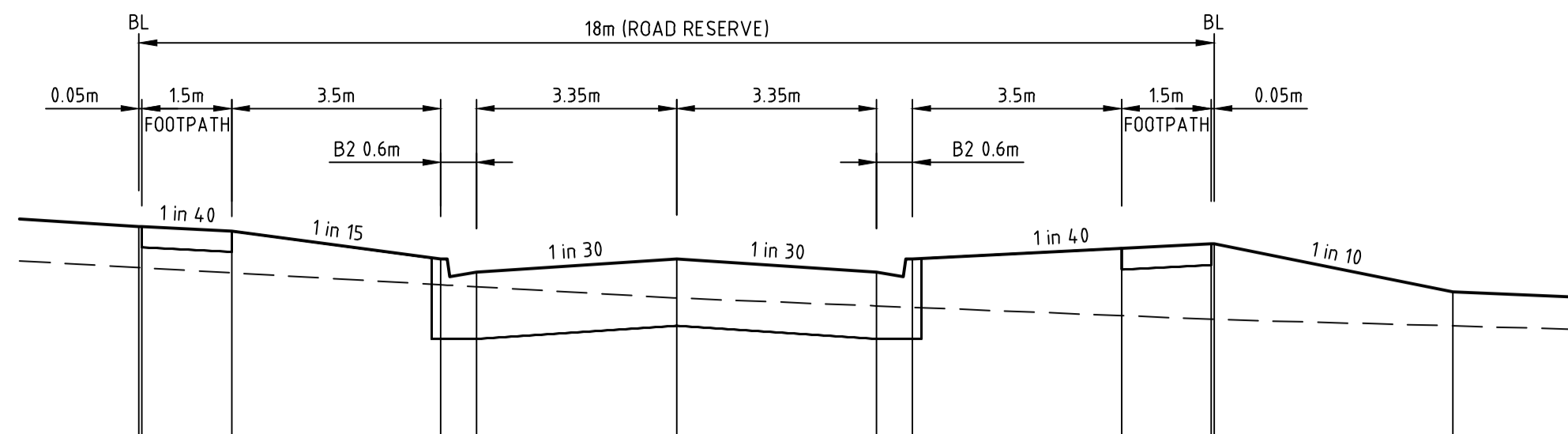
15 DOVETON STREET SOUTH, BALLARAT
   
 VICTORIA 3350 AUSTRALIA T 61 3 5312 7000
   
 spiire.com.au ABN 55 050 029 635

Designed	S.WOOD	Checked	B.IBBS
Authorised	A.WILKIE	Date	15/08/22

**CONROY'S GREEN**
  
**STAGE 9**
  
**ROAD AND DRAINAGE**
  
**ROAD CROSS SECTIONS - SHEET 3**
  
 BALLARAT CITY COUNCIL
   
 SAN HUBERTO PROPERTIES P/L
   

 309954CR402
   
 Rev 0

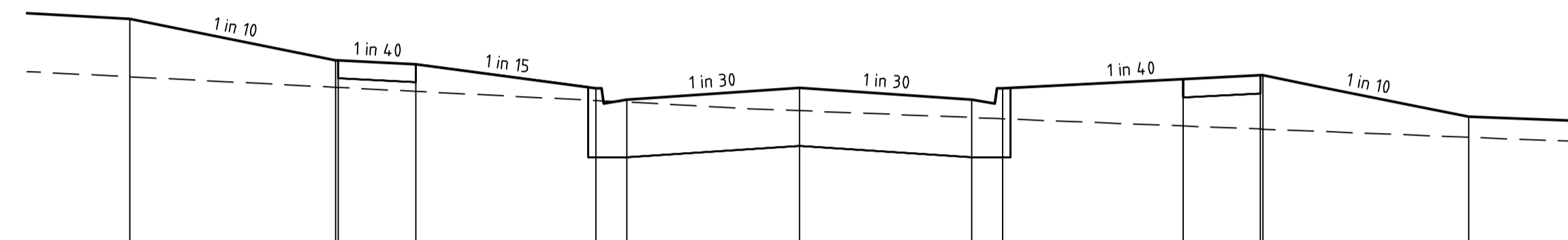
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DATUM R.L. 426.0	
DESIGN SURFACE LEVEL	-9.000 427.780 428.123 1.5m 3.5m 3.35m 3.35m 3.5m 1.5m 0.05m
EXISTING SURFACE LEVEL	-8.950 427.779 428.123 -7.450 427.736 428.086
OFFSET	-3.950 427.637 427.853 -3.350 427.620 427.74.3 0.000 427.526 427.854 3.350 427.459 427.74.3 3.950 427.447 427.853 7.450 427.378 427.940 8.950 427.348 427.978 9.000 427.347 427.978 13.000 427.293 427.518

SKYLARK DRIVE

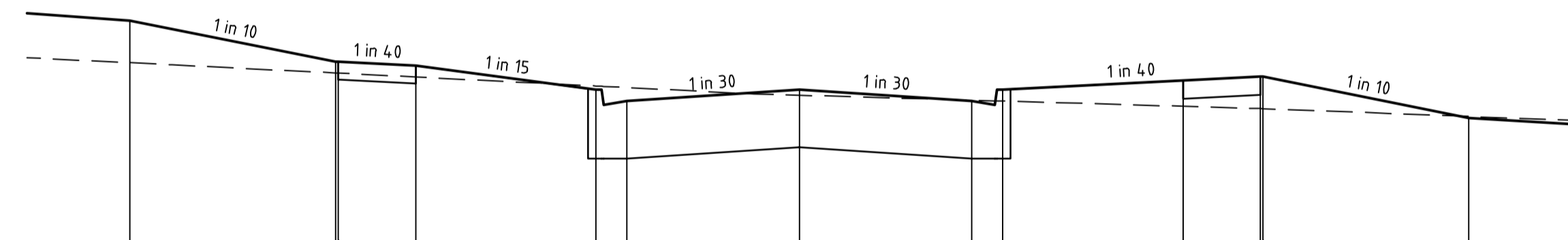
CH 50.10



DATUM R.L. 426.0	
DESIGN SURFACE LEVEL	-13.000 427.893 428.453
EXISTING SURFACE LEVEL	-9.000 427.799 428.053 -8.950 427.790 428.053 -7.450 427.752 428.016
OFFSET	-3.950 427.663 427.783 -3.350 427.648 427.673 0.000 427.565 427.784 3.350 427.498 427.673 3.950 427.486 427.783 7.450 427.417 427.870 8.950 427.387 427.908 9.000 427.386 427.908 13.000 427.307 427.508

SKYLARK DRIVE

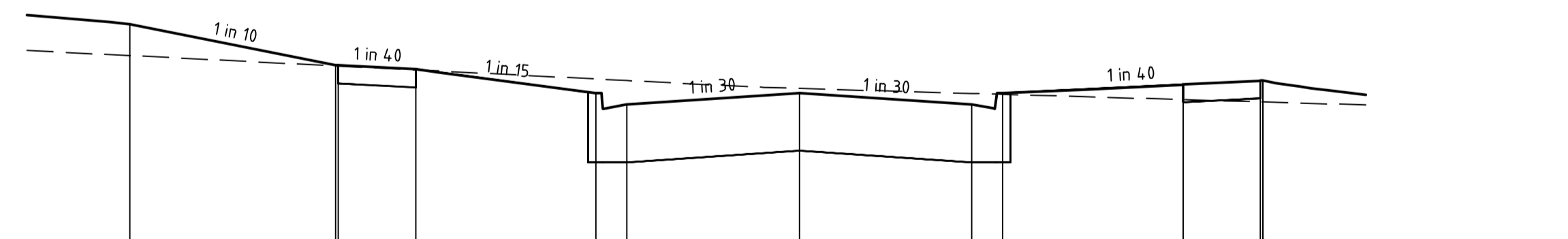
CH 36.10



DATUM R.L. 426.0	
DESIGN SURFACE LEVEL	-13.000 427.974 428.383
EXISTING SURFACE LEVEL	-9.000 427.874 427.983 -8.950 427.873 427.983 -7.450 427.835 427.946
OFFSET	-3.950 427.748 427.713 -3.350 427.733 427.603 0.000 427.659 427.714 3.350 427.610 427.603 3.950 427.601 427.713 7.450 427.551 427.800 8.950 427.529 427.838 9.000 427.528 427.838 13.000 427.452 427.438

SKYLARK DRIVE

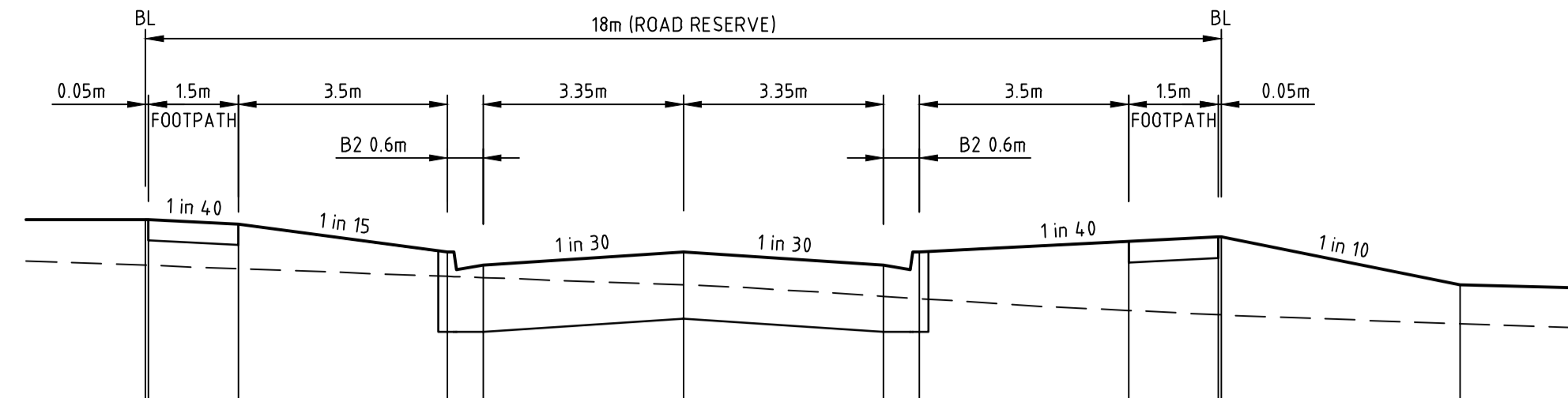
CH 22.10



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DESIGN SURFACE LEVEL	-13.000 428.035 428.340
EXISTING SURFACE LEVEL	-9.000 427.935 427.940 -8.950 427.934 427.940 -7.450 427.896 427.903
OFFSET	-3.950 427.808 427.670 -3.350 427.793 427.560 0.000 427.716 427.671 3.350 427.688 427.560 3.950 427.659 427.670 7.450 427.608 427.757 8.950 427.586 427.795 9.000 427.585 427.795 9.000 427.585 427.795 13.000 427.337 427.638

SKYLARK DRIVE

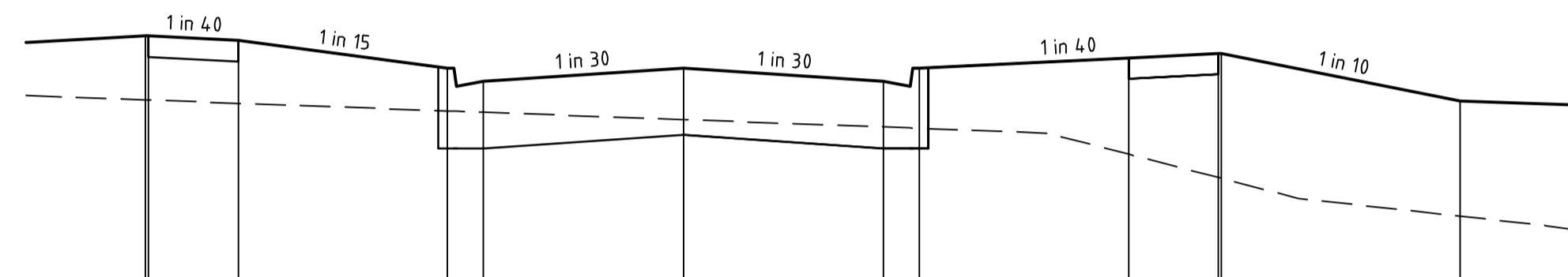
CH 13.49



DATUM R.L. 426.0	
DESIGN SURFACE LEVEL	-9.000 428.031 428.413
EXISTING SURFACE LEVEL	-8.950 428.030 428.413 -7.450 428.003 428.376
OFFSET	-3.950 427.939 428.14.3 -3.350 427.928 428.033 0.000 427.866 428.144 3.350 427.771 428.033 3.950 427.752 428.14.3 7.450 427.652 428.230 8.950 427.618 428.268 9.000 427.616 428.268 13.000 427.542 427.868

SKYLARK DRIVE

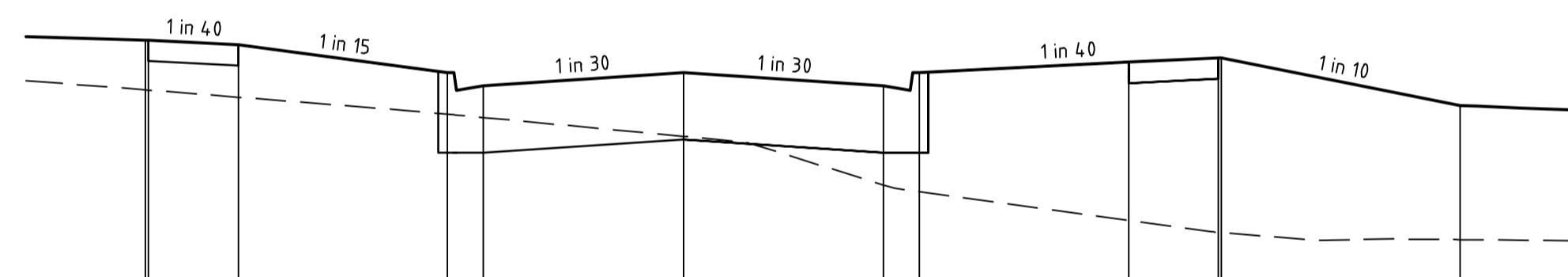
CH 108.10



DATUM R.L. 426.0	
DESIGN SURFACE LEVEL	-9.000 427.833 428.368
EXISTING SURFACE LEVEL	-8.950 427.832 428.368 -7.450 427.805 428.331
OFFSET	-3.950 427.741 428.097 -3.350 427.730 427.987 0.000 427.668 428.099 3.350 427.606 427.987 3.950 427.595 428.097 7.450 427.378 428.185 8.950 427.183 428.222 9.000 427.176 428.222 13.000 426.859 427.822

SKYLARK DRIVE

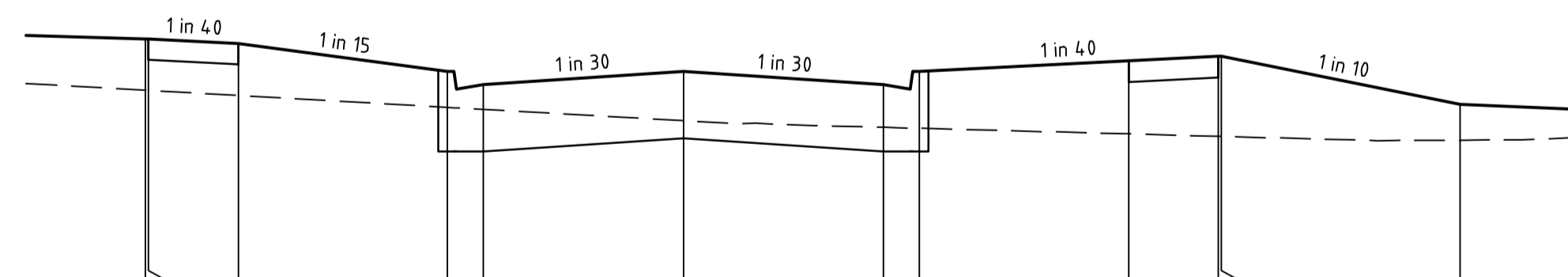
CH 99.05



DATUM R.L. 426.0	
DESIGN SURFACE LEVEL	-9.000 427.833 428.249
EXISTING SURFACE LEVEL	-8.950 427.832 428.249 -7.450 427.773 428.211
OFFSET	-3.950 427.630 427.978 -3.350 427.602 427.868 0.000 427.446 427.980 3.350 427.039 427.868 3.950 426.983 427.978 7.450 426.744 428.065 8.950 426.644 428.103 9.000 426.642 428.103 13.000 426.583 427.703

SKYLARK DRIVE

CH 75.15

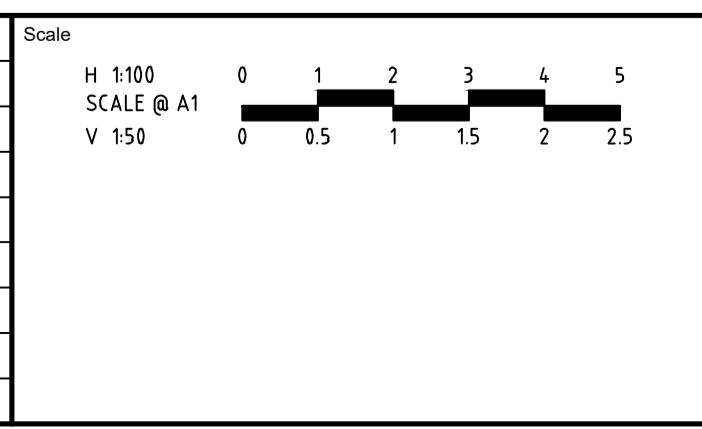


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DESIGN SURFACE LEVEL	-9.000 427.755 428.183
EXISTING SURFACE LEVEL	-8.950 427.753 428.183 -7.450 427.711 428.146
OFFSET	-3.950 427.612 427.913 -3.350 427.596 427.803 0.000 427.501 427.914 3.350 427.445 427.803 3.950 427.437 427.913 7.450 427.390 428.000 8.950 427.370 428.038 9.000 427.369 428.038 13.000 427.337 427.638

SKYLARK DRIVE

CH 62.10

Rev	Description	By	Date
0	ISSUED FOR CONSTRUCTION	A.W	04/10/22
C	ISSUED FOR TENDER	A.W	15/08/22
B	INTERNAL SPIIRE AMENDMENTS	AW	01/06/22
A	FOR APPROVAL	AW	20/04/22
Rev	Amendments	Approved	Date



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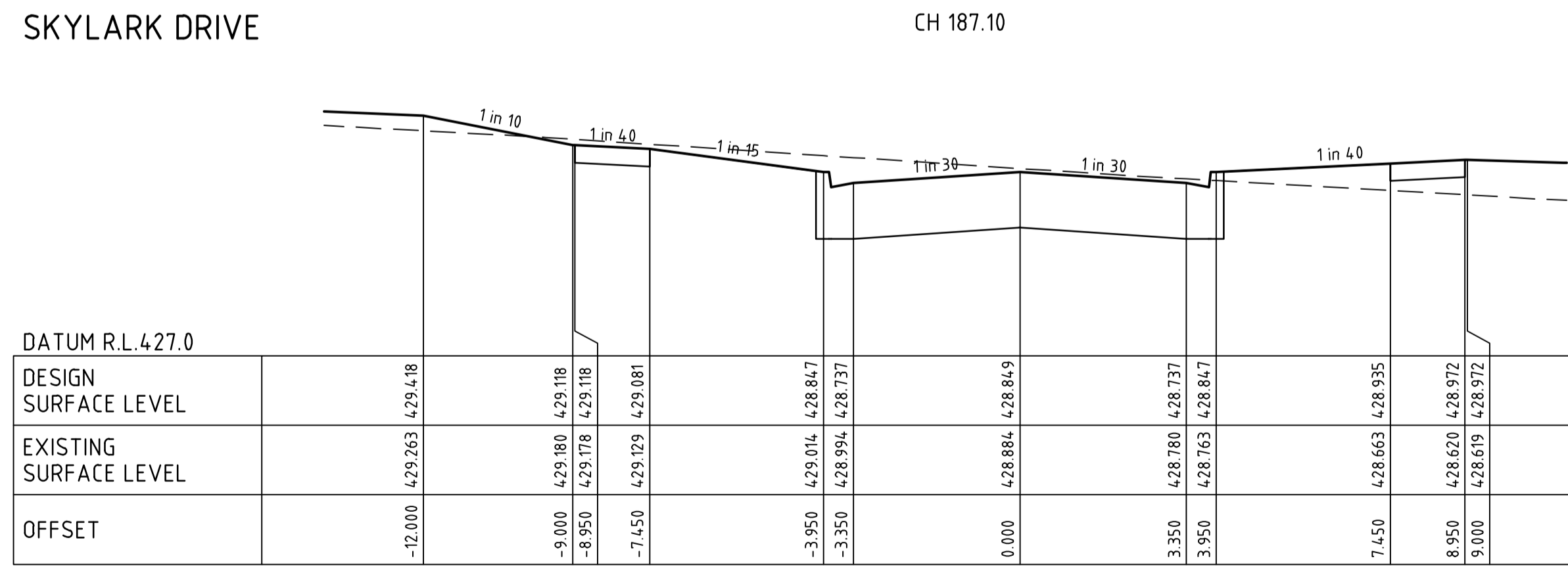
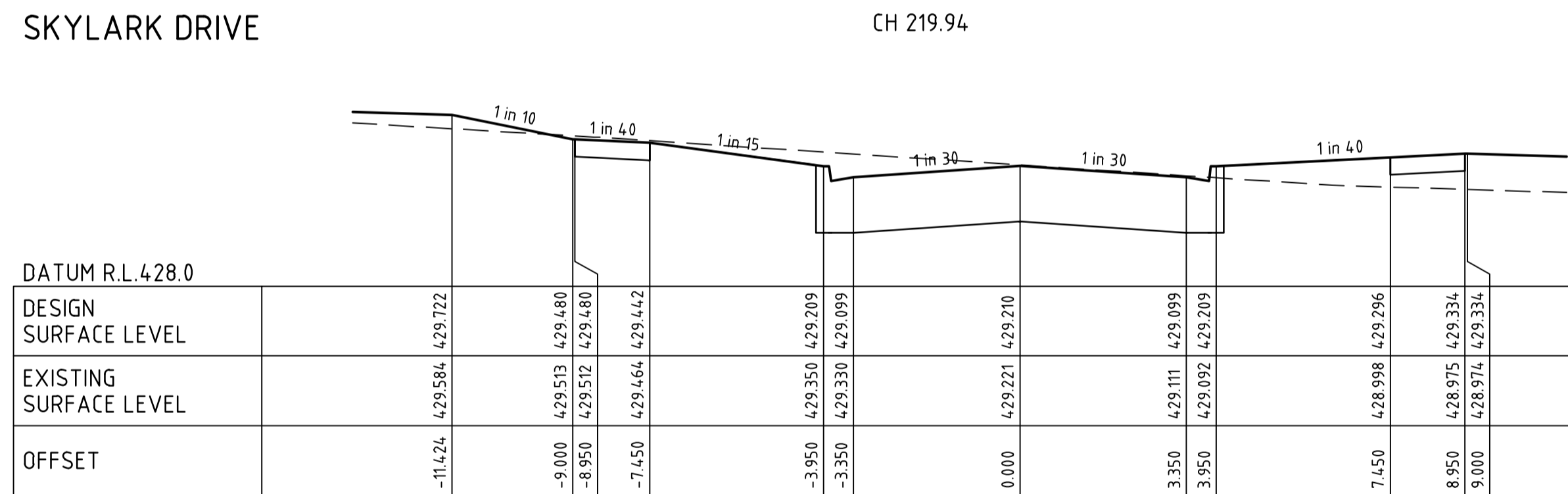
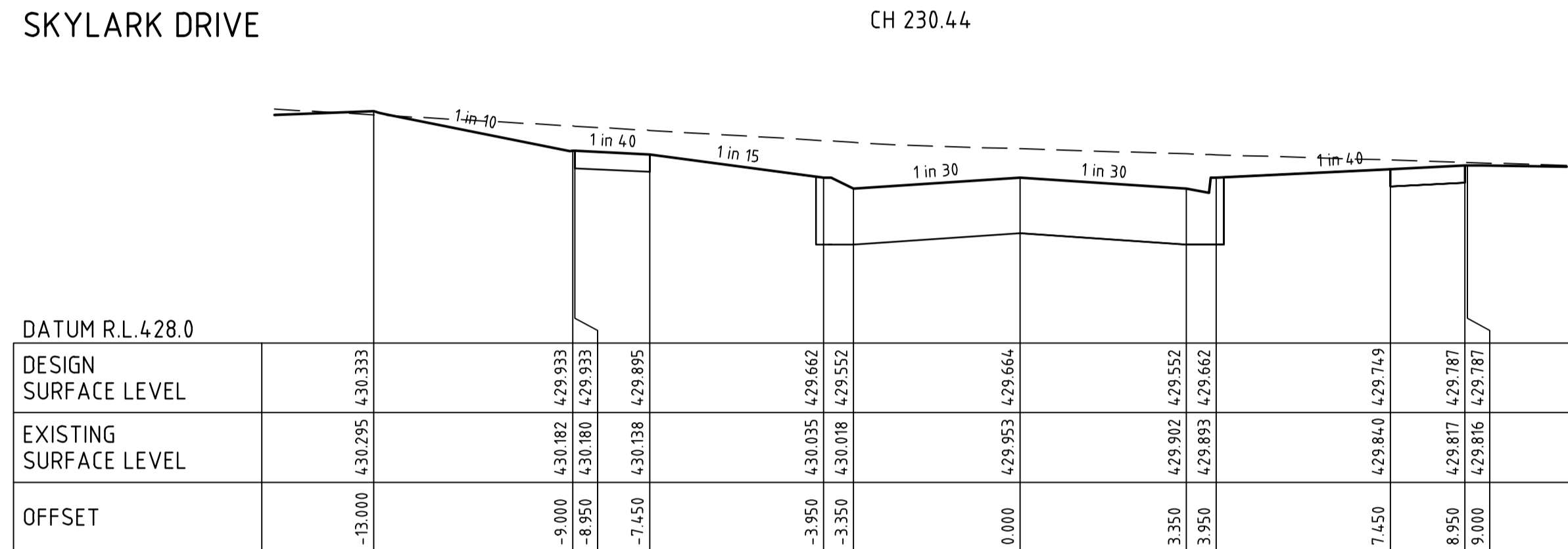
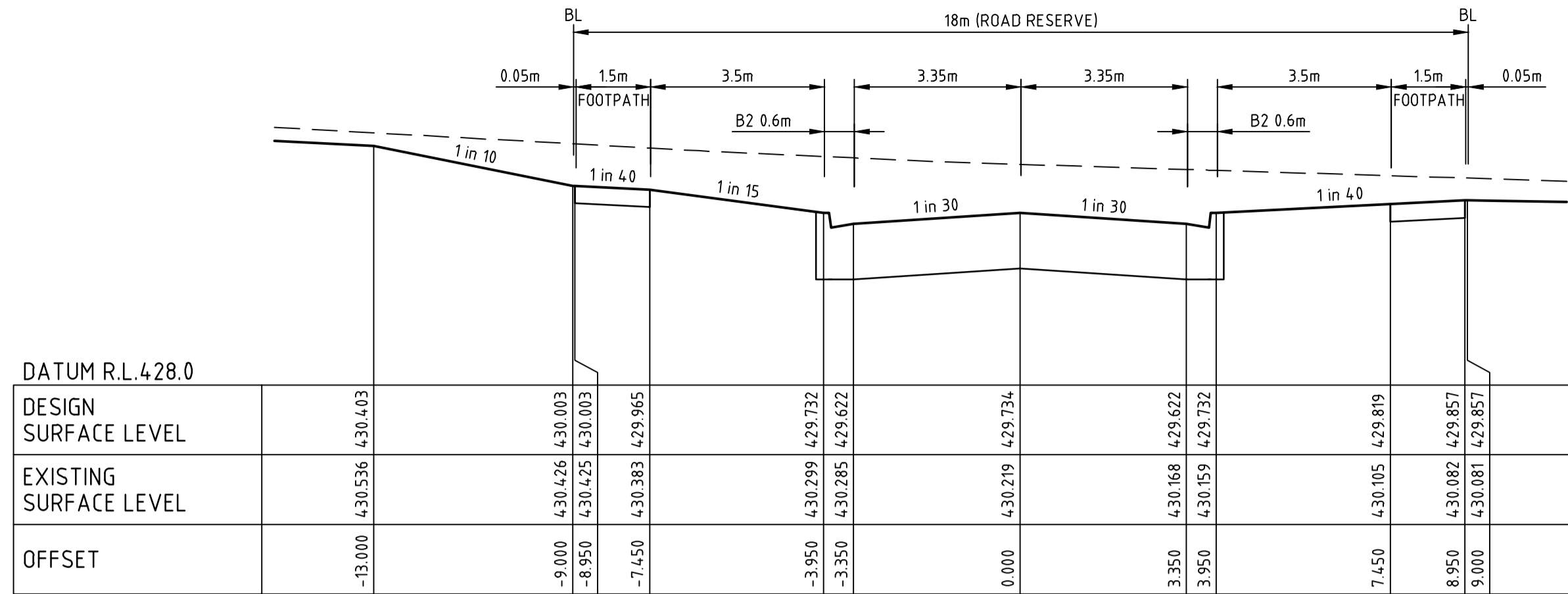
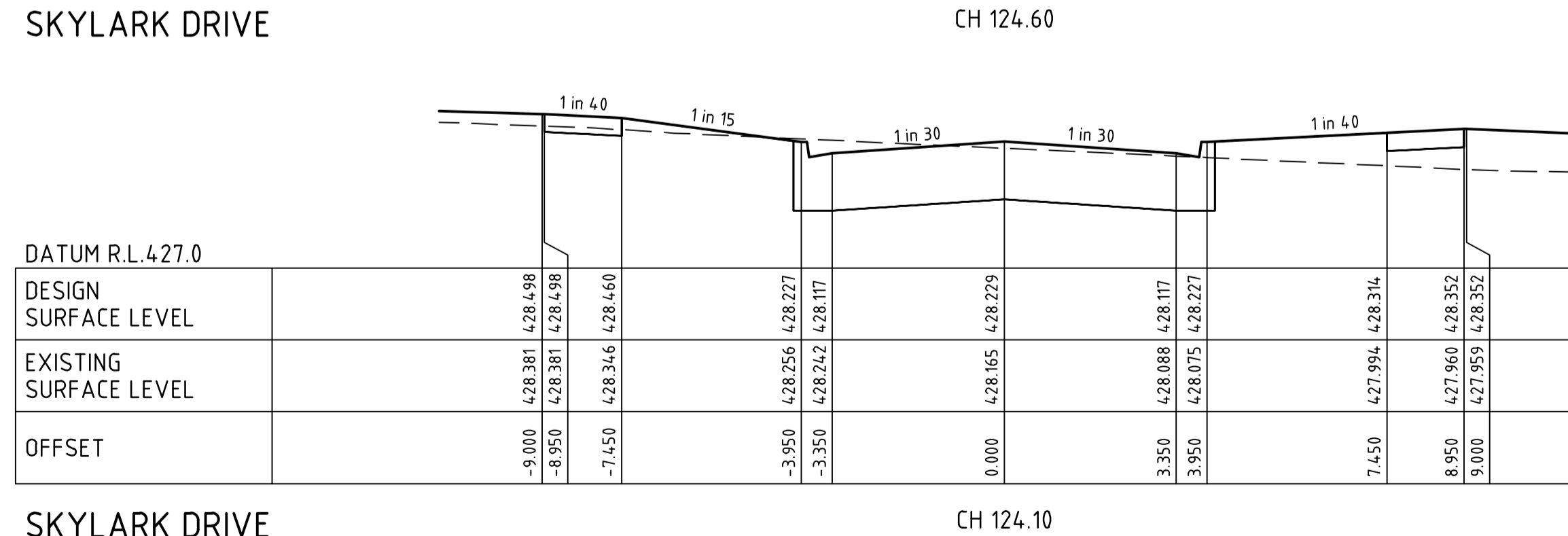
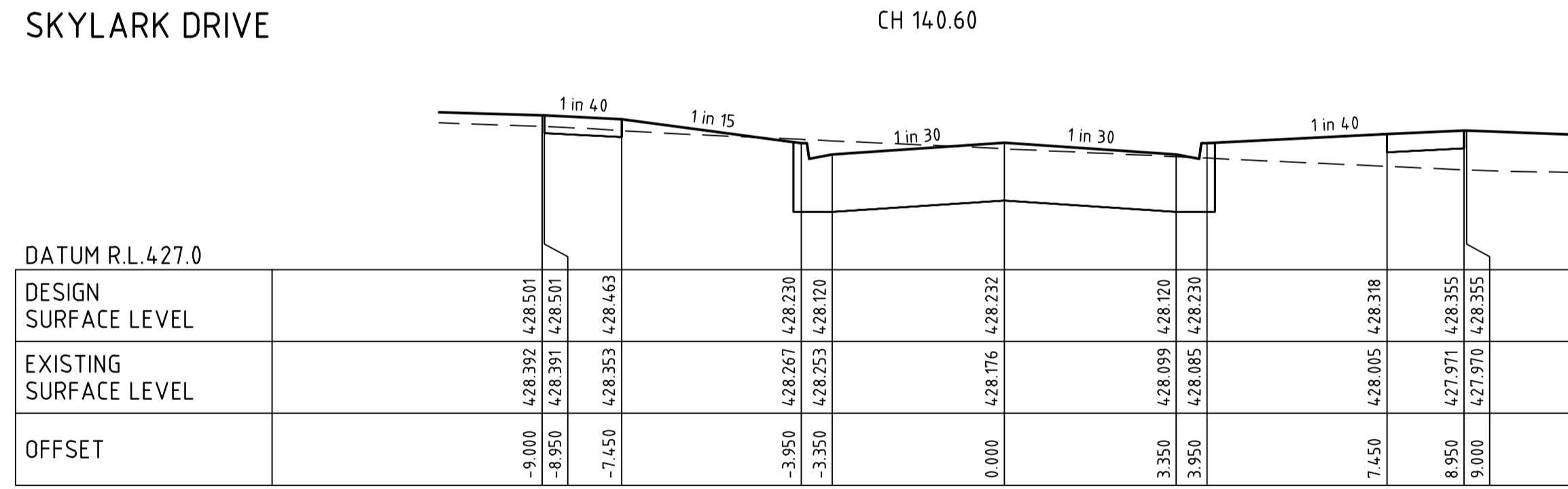
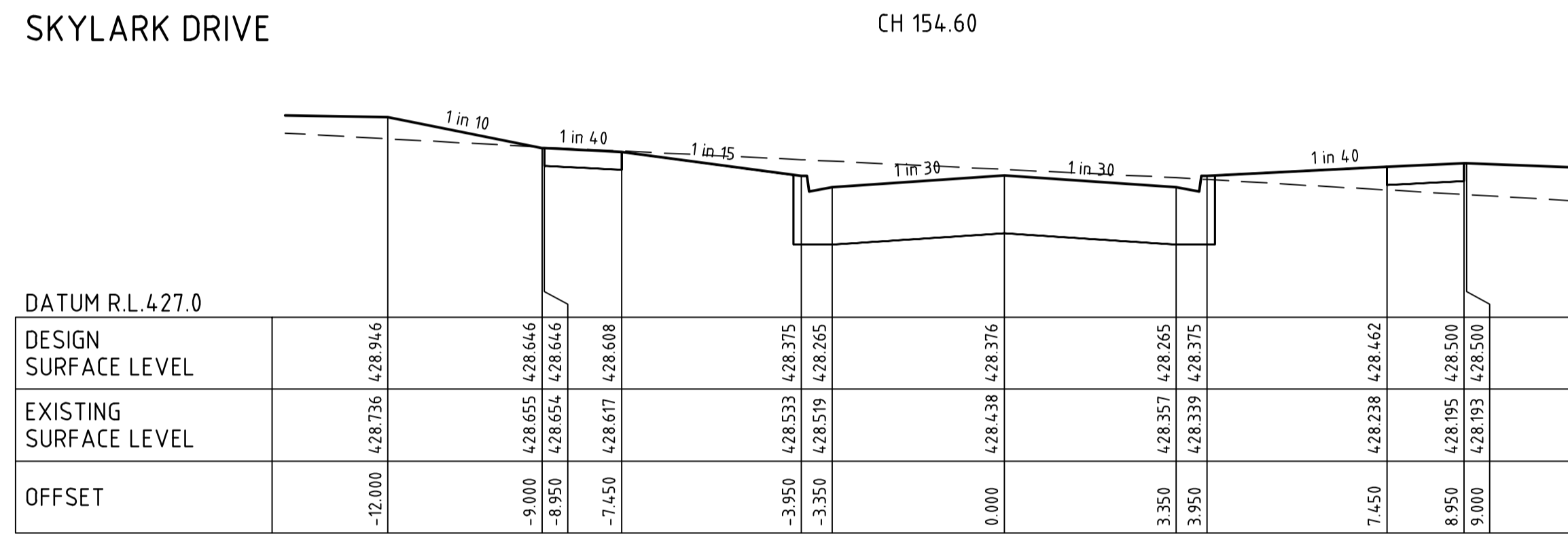
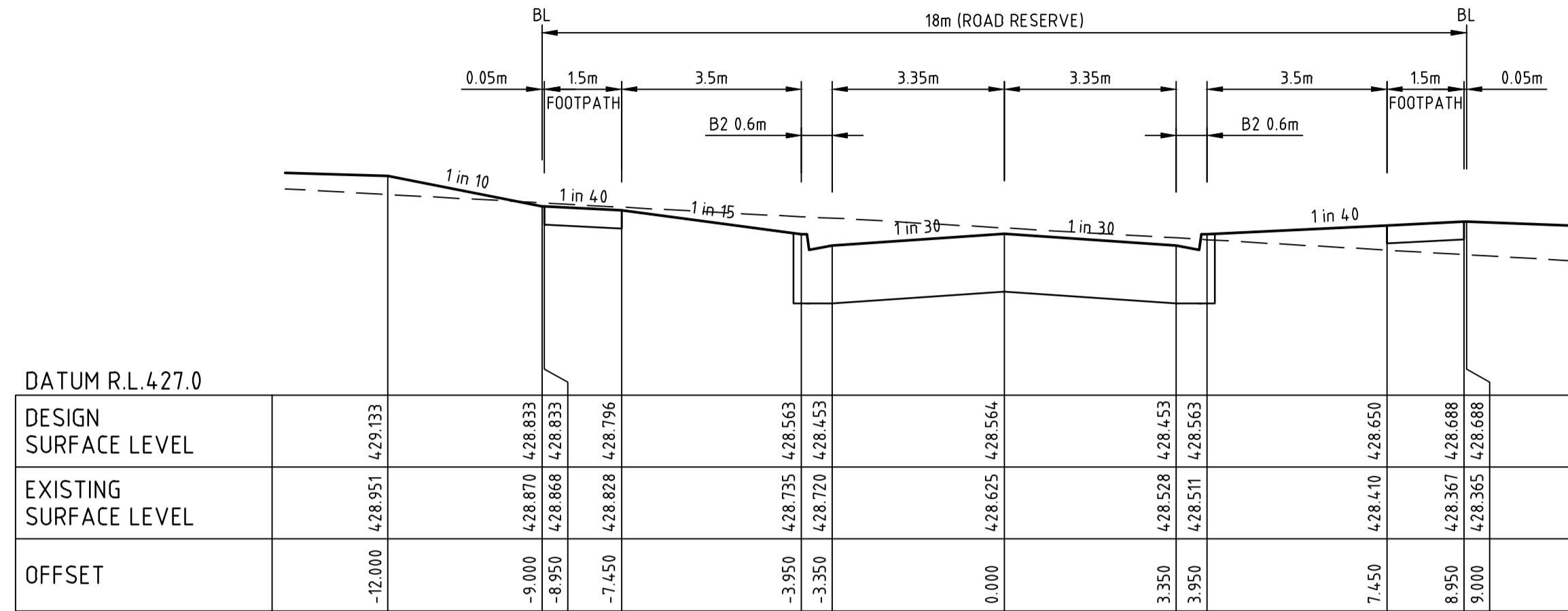
15 DOVETON STREET SOUTH, BALLARAT  
 VICTORIA 3350 AUSTRALIA T 61 3 5312 7000  
 spiire.com.au ABN 55 050 029 635

Designed <b>S.WOOD</b>	Checked <b>B.IBBS</b>
Authorised <b>A.WILKIE</b>	Date 15/08/22

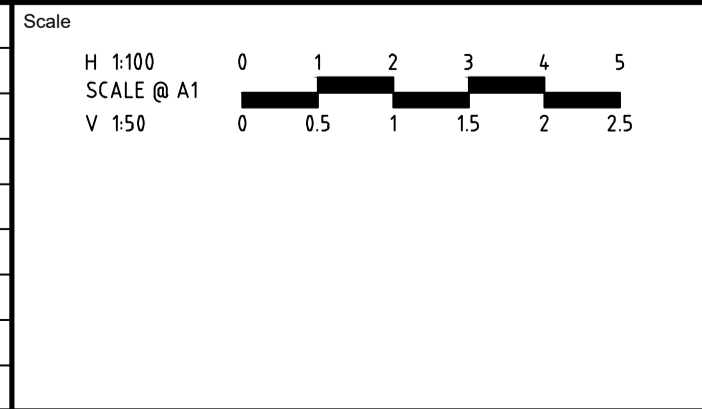
**CONROY'S GREEN**  
**STAGE 9**  
**ROAD AND DRAINAGE**  
**ROAD CROSS SECTIONS - SHEET 4**  
 BALLARAT CITY COUNCIL  
 SAN HUBERTO PROPERTIES P/L

Drg No: **309954CR403** Rev: **0**

file name: 309954CR404.dwg, layout name: CR404, plotted by: Ashly, d:\projects\309954\civil\309954\civil\309954\309954.dwg, plot date: 04/10/2022, 15:27 PM, Sheet: 11 of 18 Sheets



Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	04/10/22
C	ISSUED FOR TENDER	A.W	15/08/22
B	INTERNAL SPIIRE AMENDMENTS	AW	01/06/22
A	FOR APPROVAL	AW	20/04/22



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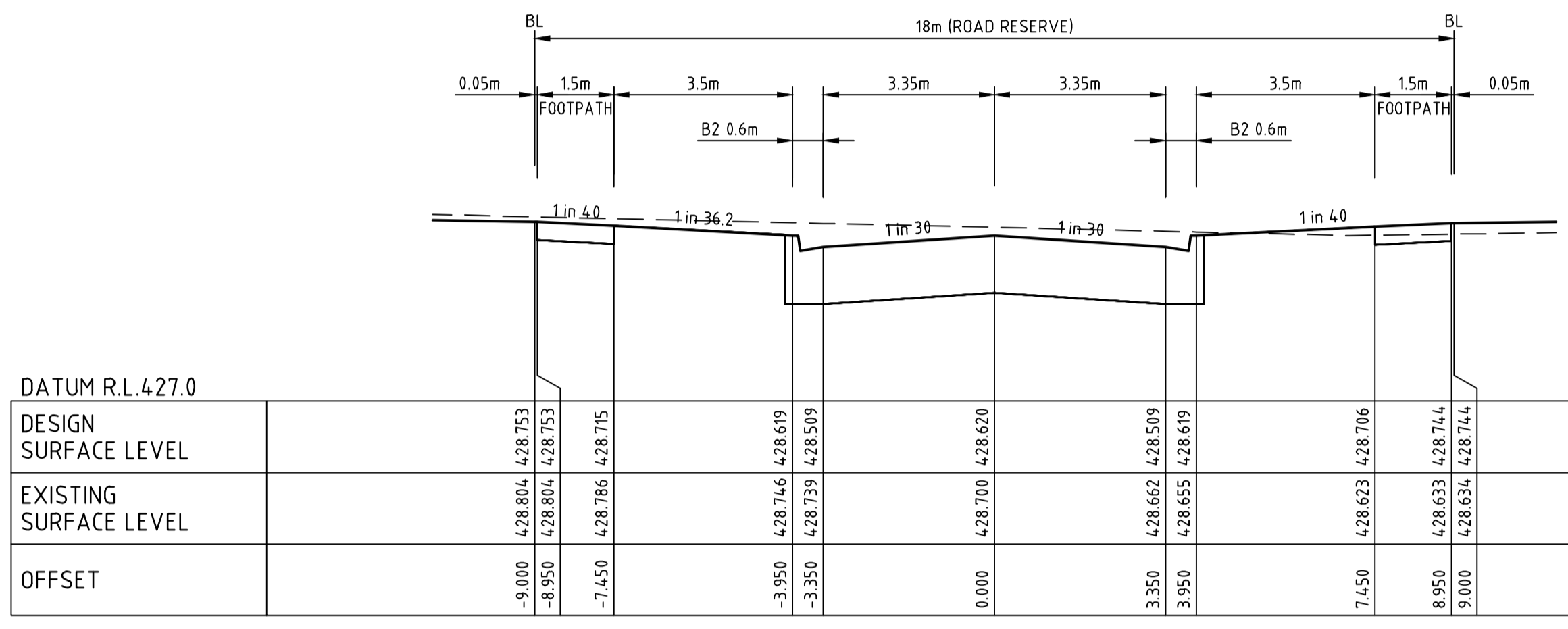
Designed S.WOOD	Checked B.IBBS
Authorised A.WILKIE	Date 15/08/22

**CONROY'S GREEN**  
**STAGE 9**  
**ROAD AND DRAINAGE**  
**ROAD CROSS SECTIONS - SHEET 5**  
 BALLARAT CITY COUNCIL  
 SAN HUBERTO PROPERTIES P/L

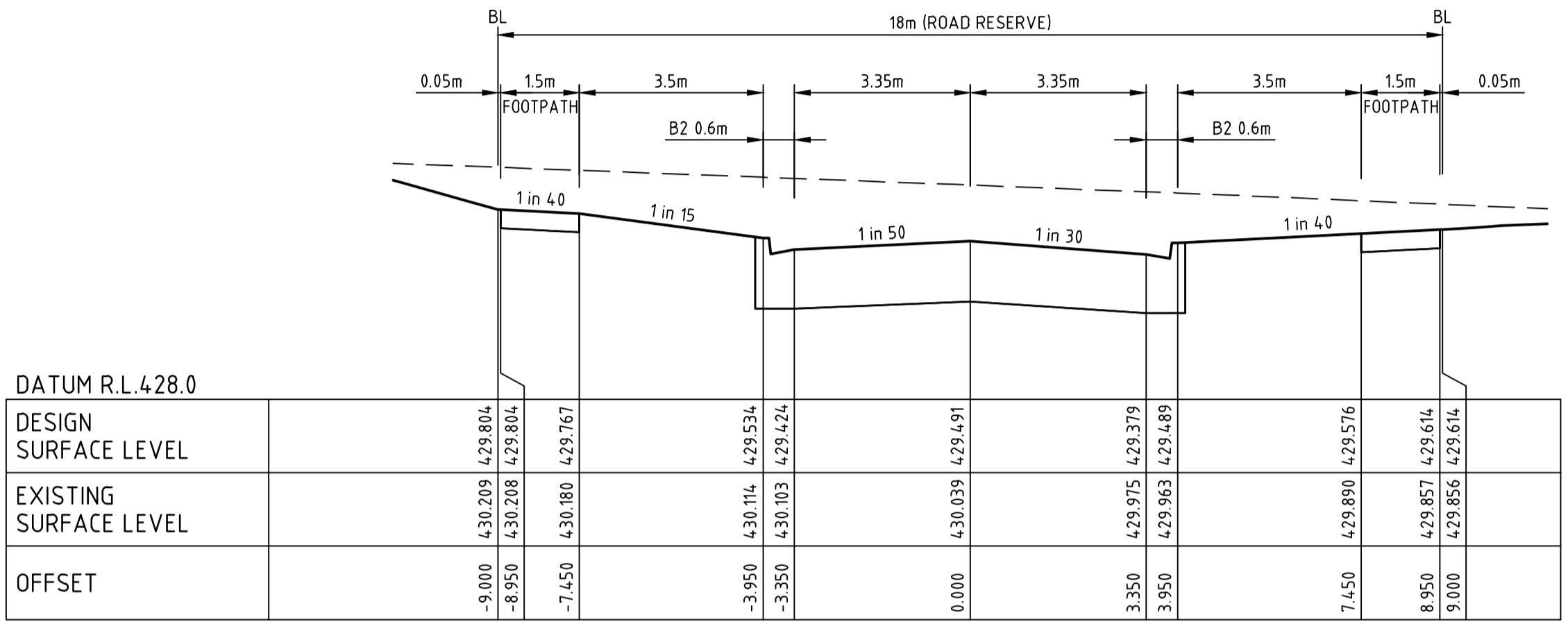
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**CONSTRUCTION 309954CR404**

Rev  
**0**

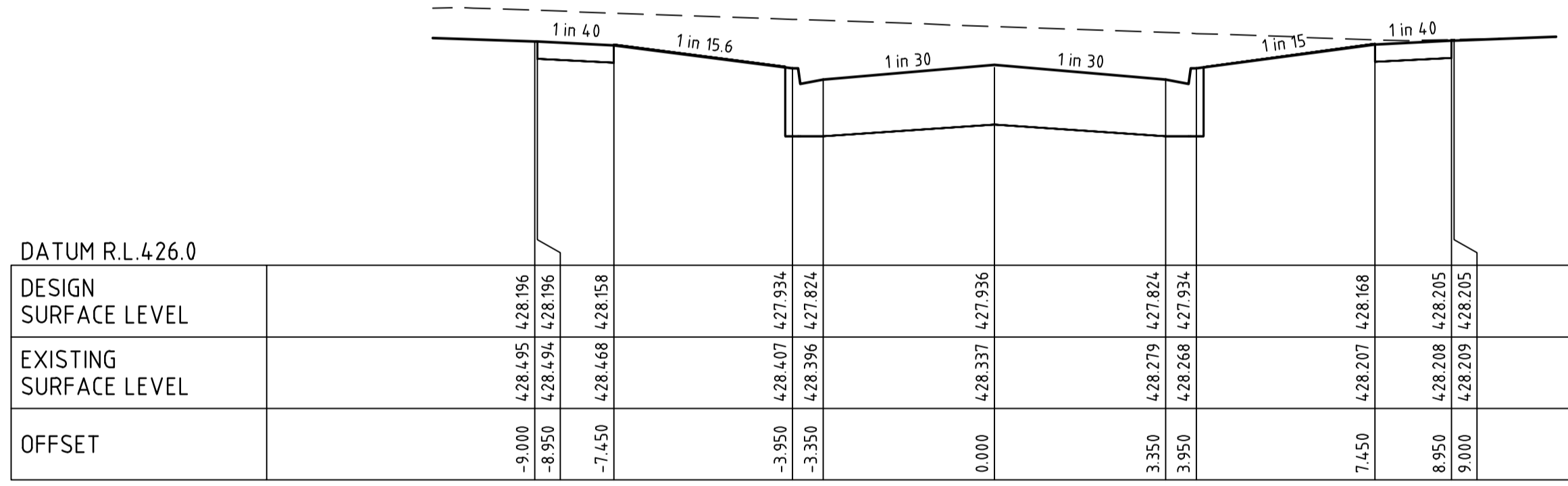
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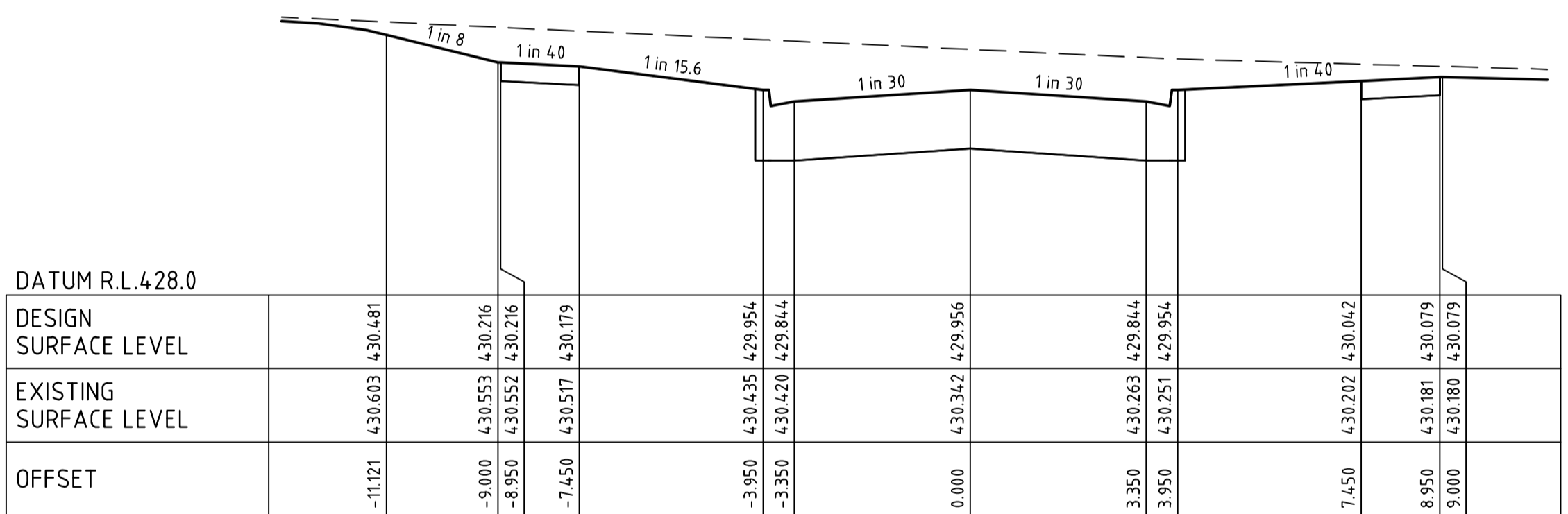
WREN WAY CH 4.00



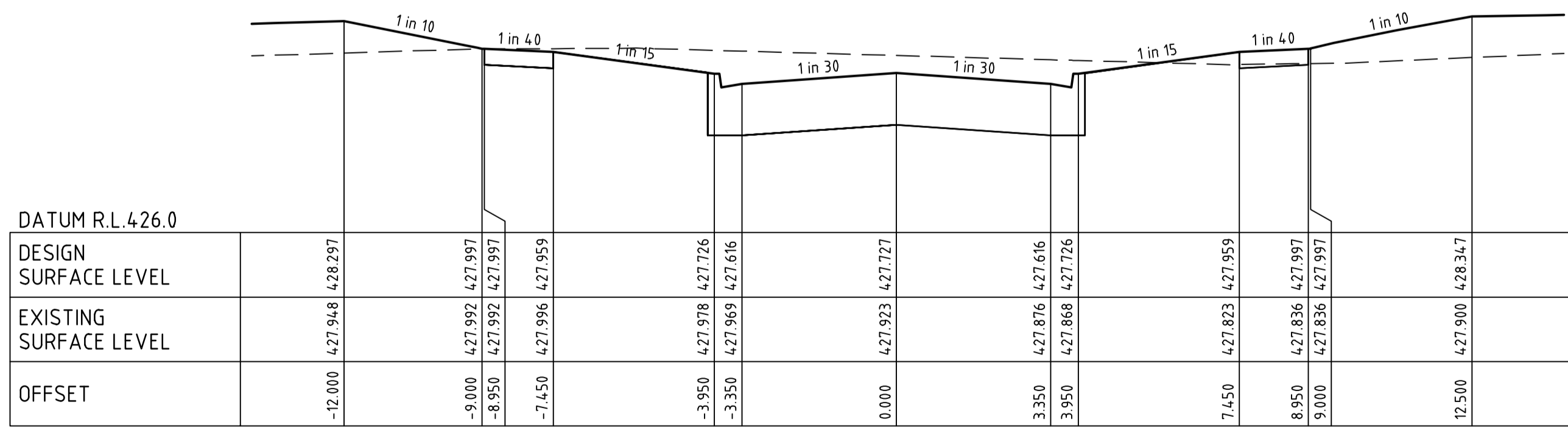
STORK STREET CH 199.08



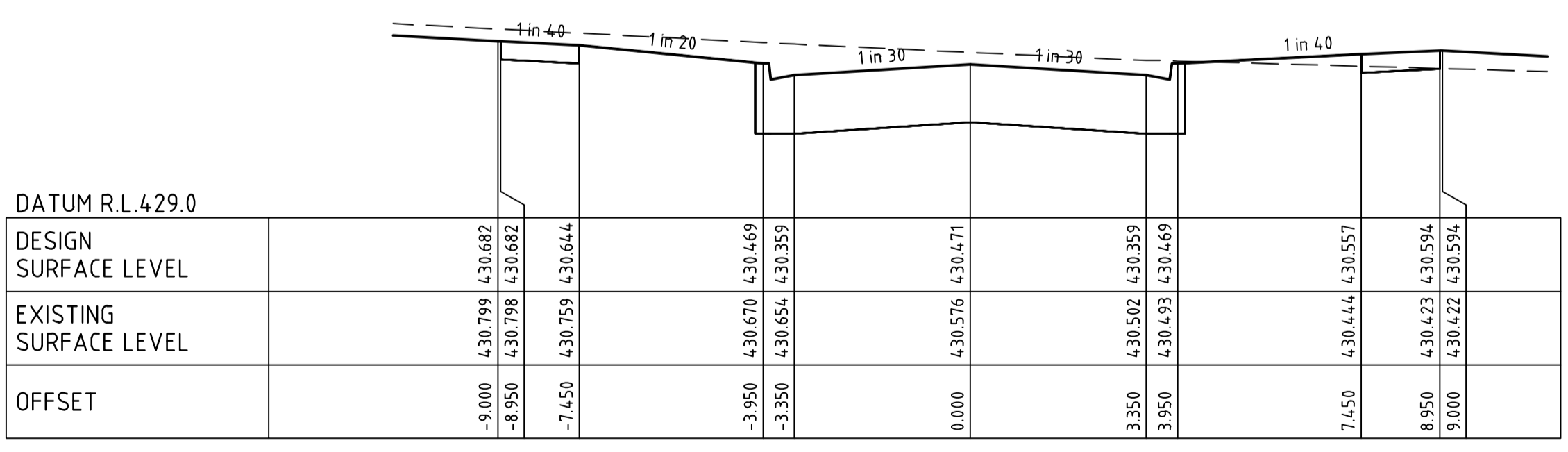
WREN WAY CH 26.00



STORK STREET CH 185.03

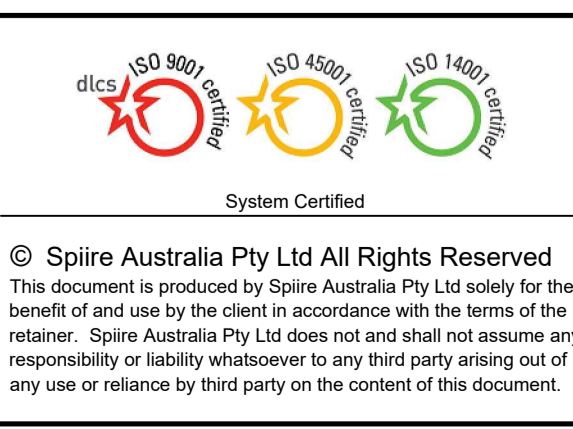
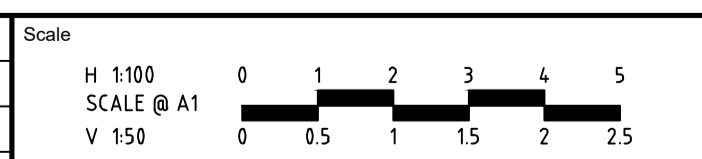


WREN WAY CH 11.95



STORK STREET CH 174.03

Rev	Description	Approved	Date
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C	ISSUED FOR TENDER	A.W	15/08/22
B	INTERNAL SPIIRE AMENDMENTS	AW	01/06/22
A	FOR APPROVAL	AW	20/04/22

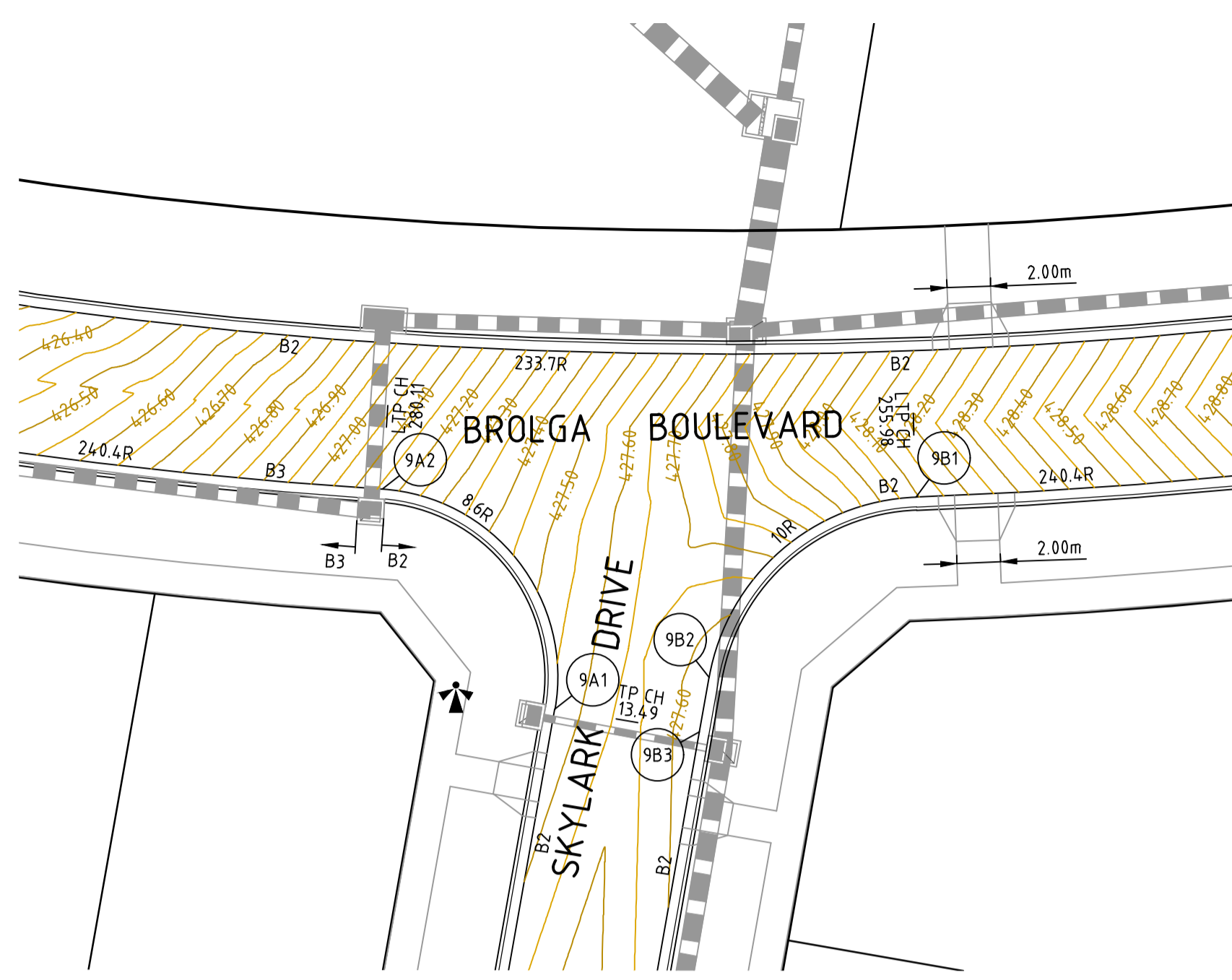


Designed  
S.WOOD  
 Authorised  
A.WILKIE  
 Checked  
B.IBBS  
 Date  
15/08/22

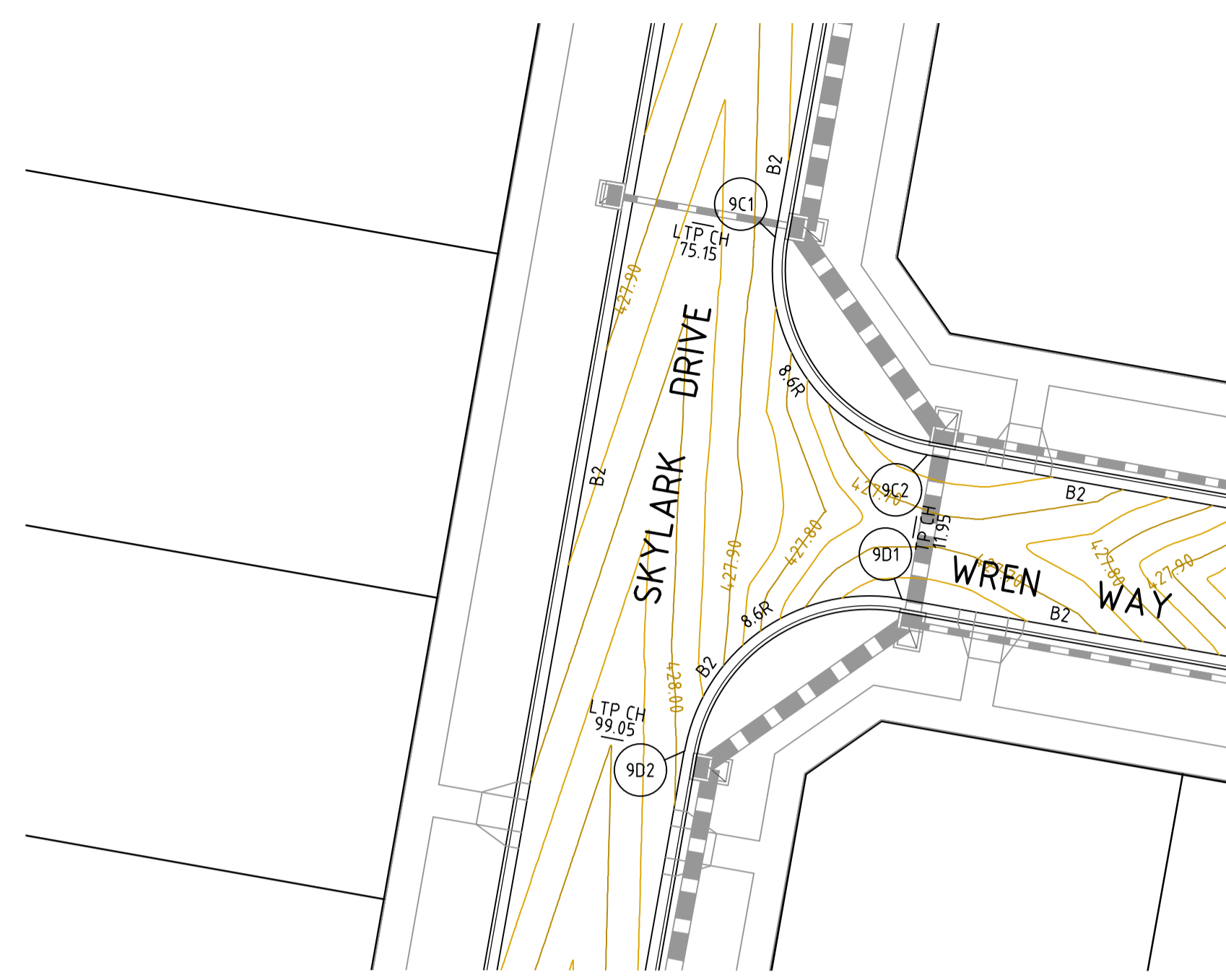
**CONROY'S GREEN  
 STAGE 9  
 ROAD AND DRAINAGE  
 ROAD CROSS SECTIONS - SHEET 6  
 BALLARAT CITY COUNCIL  
 SAN HUBERTO PROPERTIES P/L**

CONSTRUCTION 309954CR405

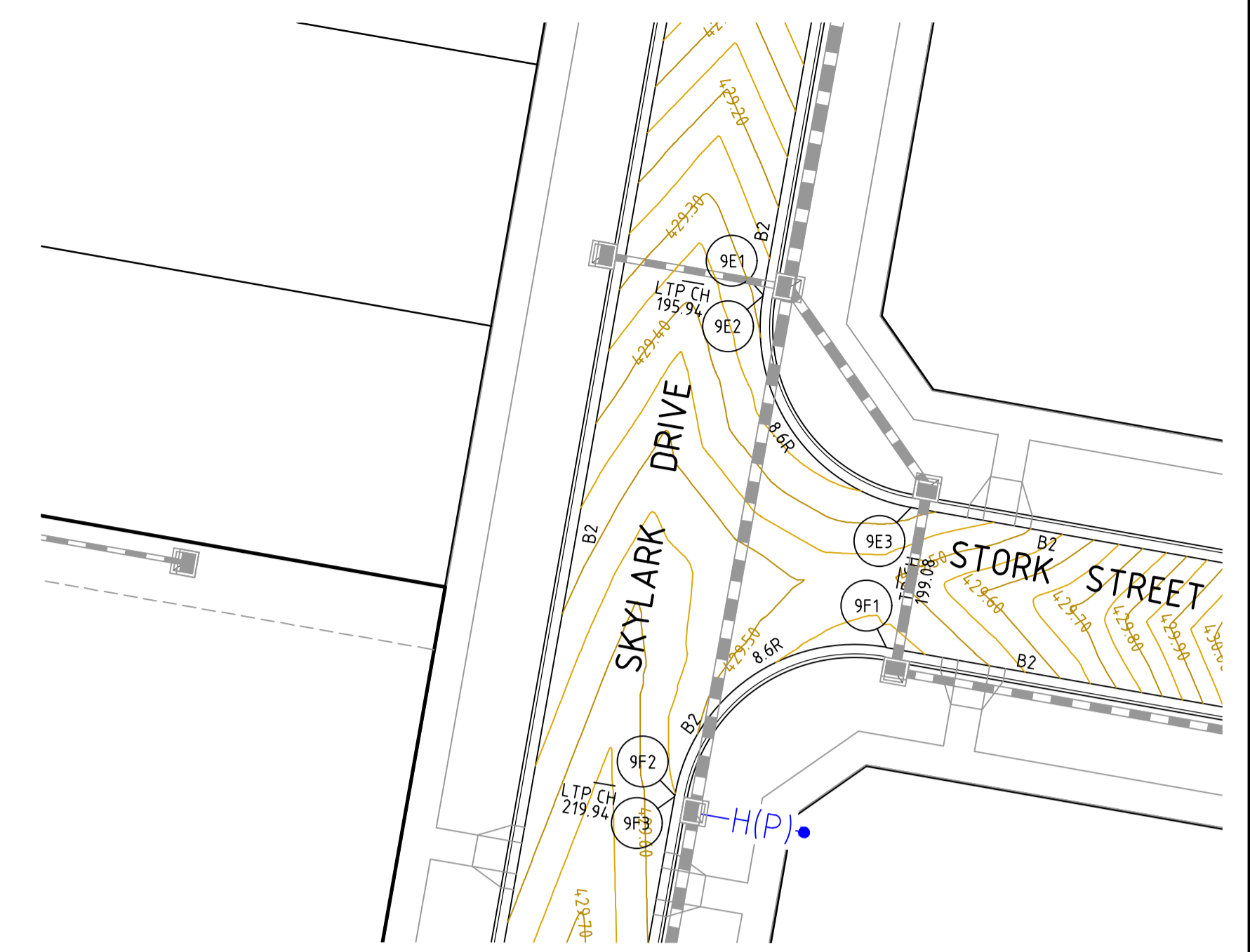
Rev 0



**BROLGA BOULEVARD & SKYLARK DRIVE**  
KERB RETURN 9A & 9B



**WREN WAY & SKYLARK DRIVE**  
KERB RETURN 9C & 9D

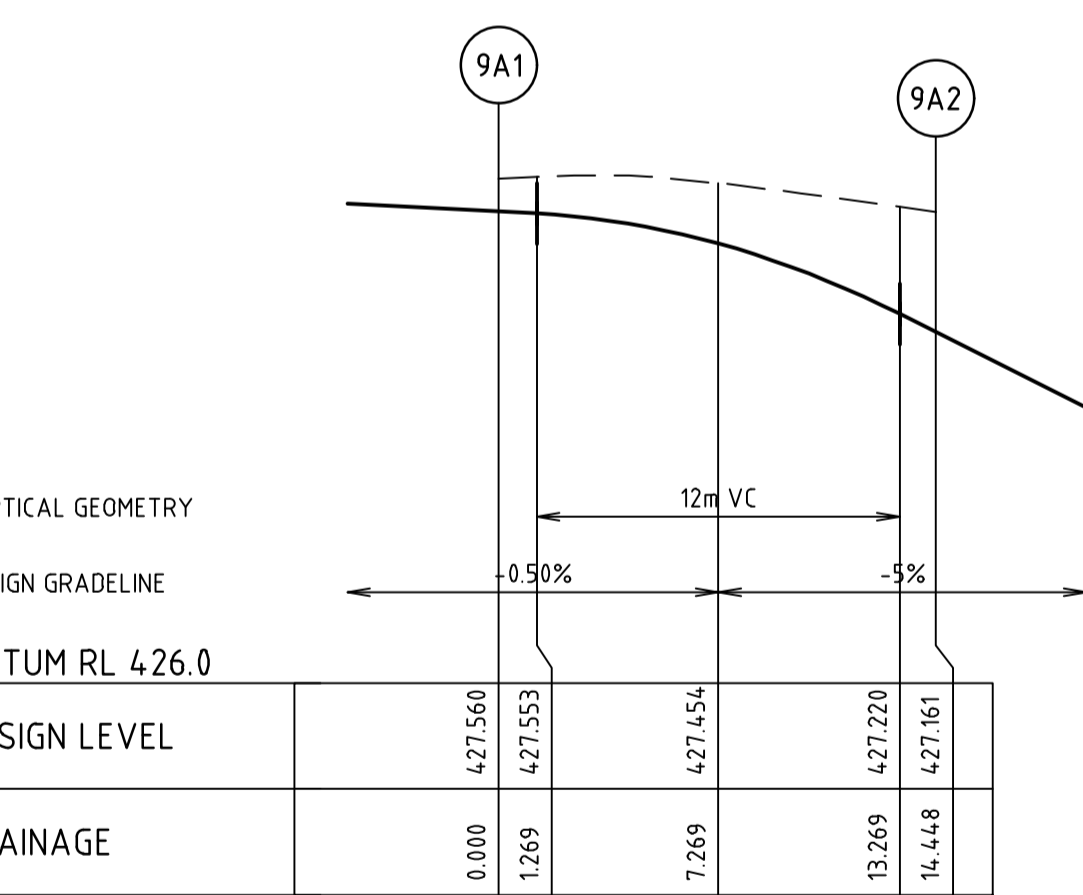


**STORK STREET & SKYLARK DRIVE**  
KERB RETURN 9E & 9F

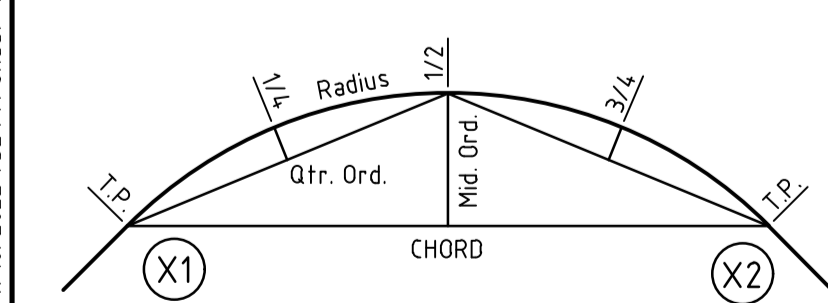
**ALIGNMENT 9A**

POINT NO	EASTING	NORTHING	RL	CHAINAGE
9A1	745727.363	5837680.782	427.560	0.000
1/4	745727.237	5837684.365	427.534	3.612
1/2	745725.661	5837687.585	427.459	7.224
3/4	745722.909	5837689.884	427.333	10.836
9A2	745719.459	5837690.860	427.161	14.448

Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	L	Mid Ord RL
9A12	-96.258	8.600	14.448	2.860	2.112	2.897	3.507	3.612	427.459



**ALIGNMENT 9A**

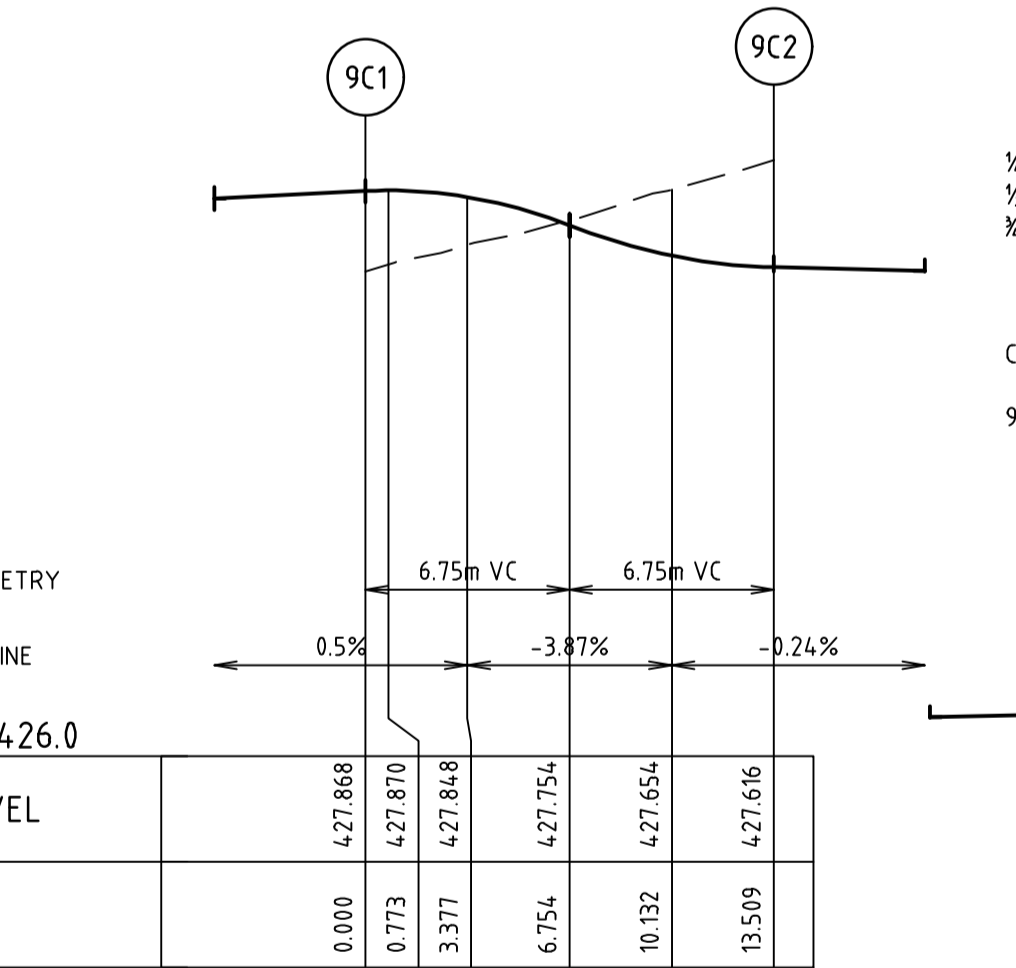


**KERB RETURN SETOUT DETAIL**

**ALIGNMENT 9C**

POINT NO	EASTING	NORTHING	RL	CHAINAGE
9C1	745723.242	5837618.962	427.868	0.000
1/4	745723.314	5837615.607	427.868	3.377
1/2	745724.664	5837612.535	427.754	6.754
3/4	745727.087	5837610.214	427.654	10.132
9C2	745730.214	5837608.997	427.616	13.509

Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	L	Mid Ord RL
9C12	-90.000	8.600	13.509	2.519	1.864	2.790	3.291	3.377	427.754



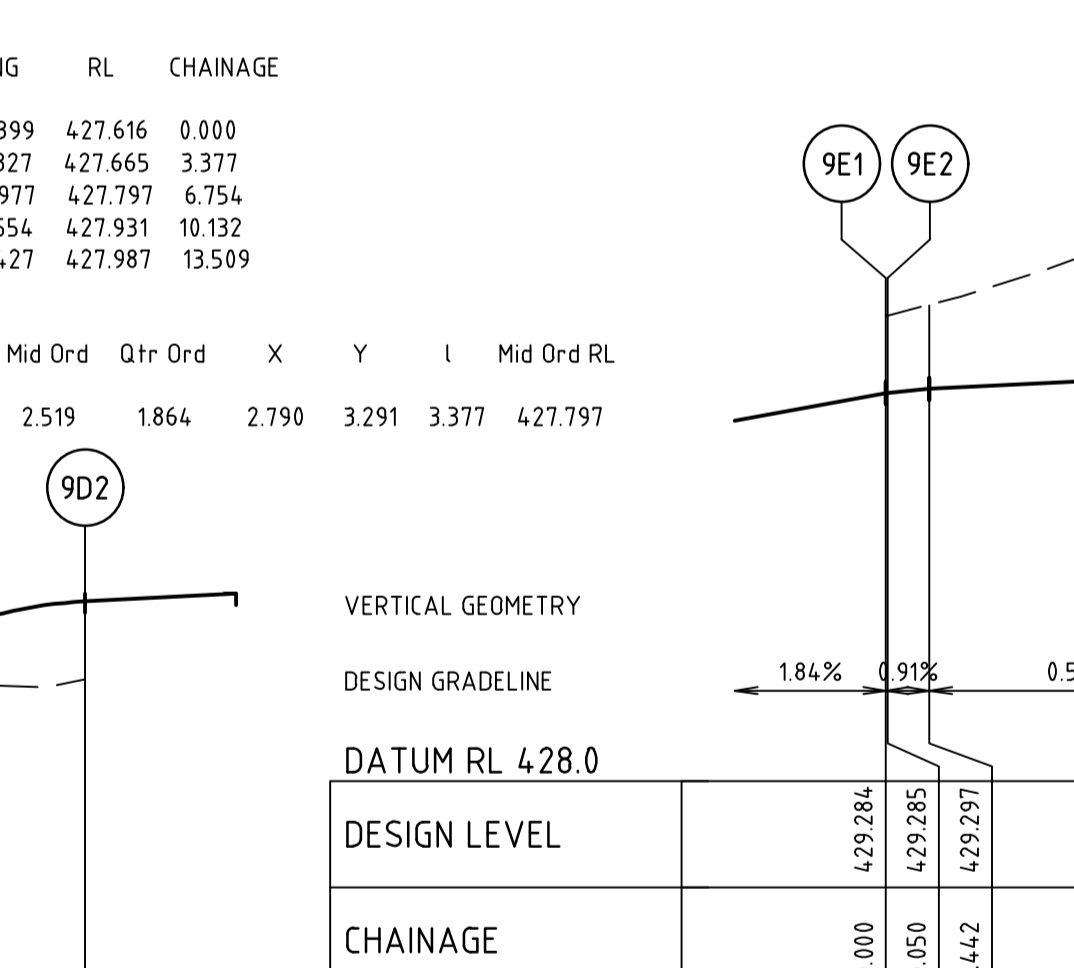
**ALIGNMENT 9C**

**ALIGNMENT 9C**

**ALIGNMENT 9E**

POINT NO	EASTING	NORTHING	RL	CHAINAGE
9E1	745702.221	5837500.015	429.284	0.000
9E2	745702.212	5837499.966	429.285	0.050
1/4	745702.284	5837496.611	429.307	3.427
1/2	745703.634	5837493.539	429.324	6.804
3/4	745706.057	5837491.218	429.343	10.182
9E3	745709.184	5837490.001	429.379	13.559

Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	L	Mid Ord RL
9E23	-90.000	8.600	13.509	2.519	1.864	2.790	3.291	3.377	429.324



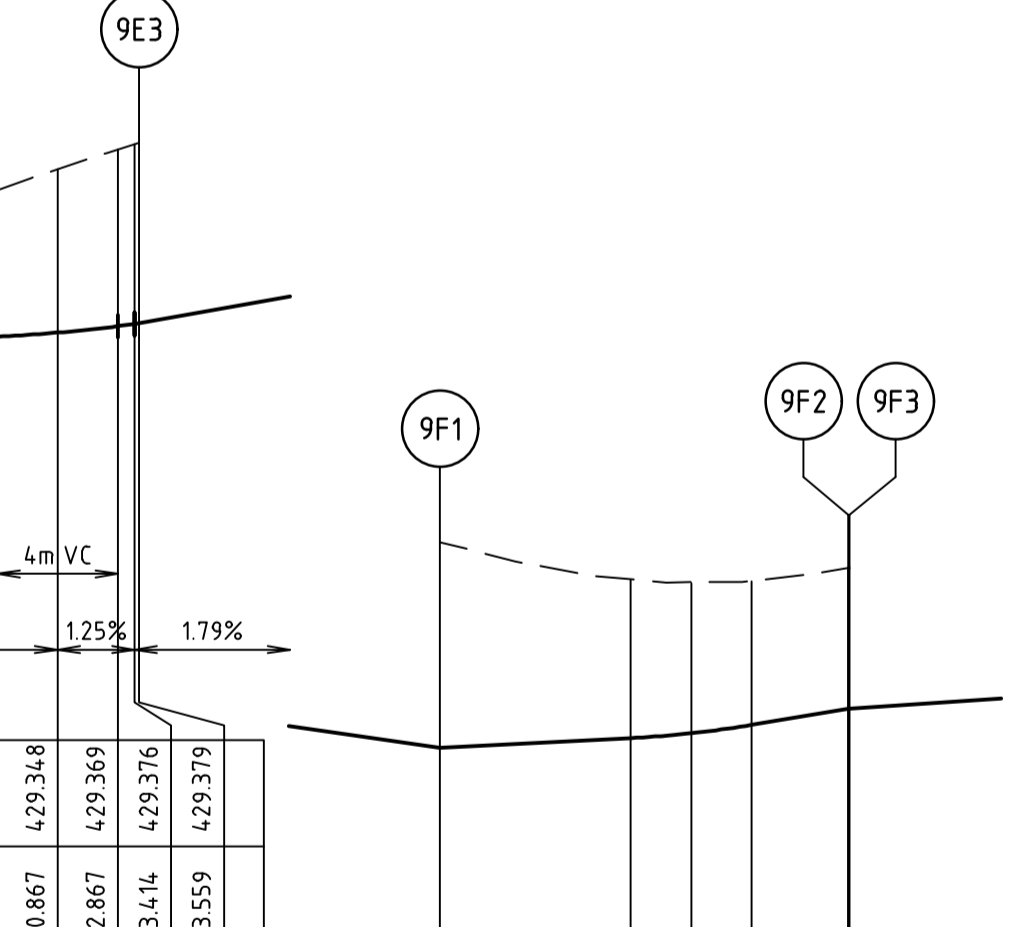
**ALIGNMENT 9E**

**ALIGNMENT 9E**

**ALIGNMENT 9F**

POINT NO	EASTING	NORTHING	RL	CHAINAGE
9F1	745708.018	5837483.403	429.423	0.000
1/4	745704.663	5837483.331	429.440	3.377
1/2	745701.591	5837481.981	429.457	6.754
3/4	745699.270	5837479.558	429.495	10.132
9F2	745698.053	5837476.431	429.551	13.509
9F3	745698.044	5837476.381	429.552	13.559

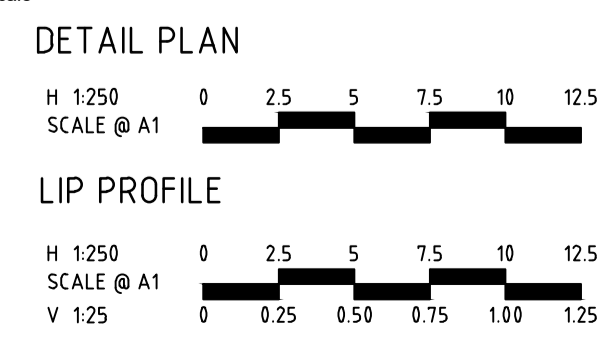
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9F12	-90.000	8.600	13.509	2.519	1.864	2.790	3.291	3.377	429.457



**ALIGNMENT 9F**

**ALIGNMENT 9F**

Scale



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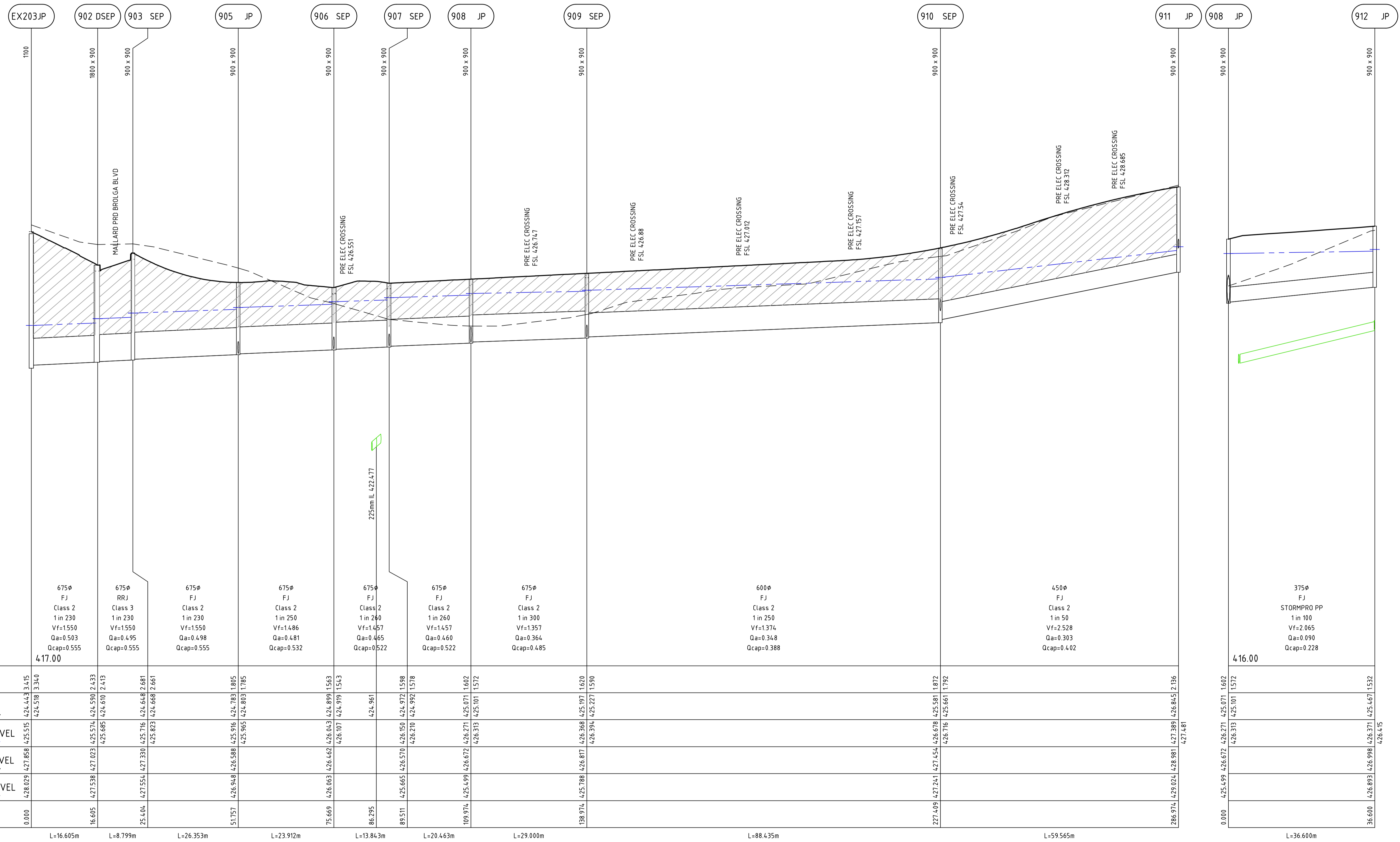
Designed  
**S.WOOD**
  
 Checked  
**B.IBBS**
  
 Authorised  
**A.WILKIE**
  
 Date  
 15/08/22

**CONROY'S GREEN**  
**STAGE 9**  
 ROAD AND DRAINAGE  
 INTERSECTION DETAILS  
 BALLARAT CITY COUNCIL  
 SAN HUBERTO PROPERTIES P/L

Dwg No  
**CONSTRUCTION 309954CR500**
  
 Rev  
**0**

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Rev	Description	By	Date
0	ISSUED FOR CONSTRUCTION	A.W	04/10/22
D	KERB PROFILE DETAILS AND FPATH DIMS ADDED	AW	26/09/22
C	ISSUED FOR TENDER	A.W	15/08/22
B	INTERNAL SPIIRE AMENDMENTS	AW	01/06/22
A	FOR APPROVAL	AW	20/04/22
Rev	Amendments	Approved	Date



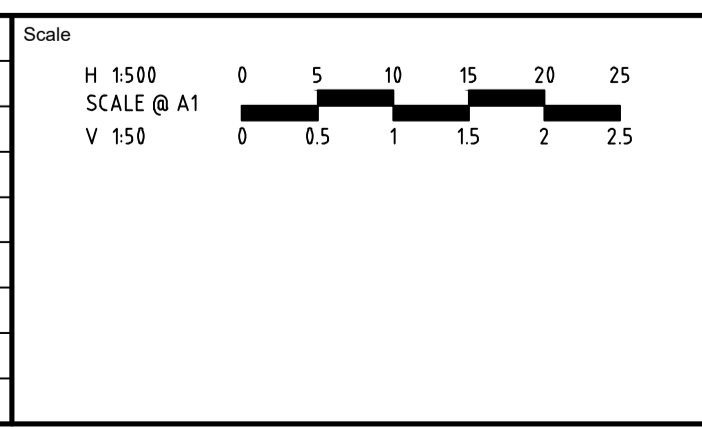
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675ø	RRJ	Class 3	1 in 230	Vf=1.550	Qa=0.495	Qcap=0.555	
675ø	FJ	Class 2	1 in 230	Vf=1.550	Qa=0.498	Qcap=0.555	
675ø	FJ	Class 2	1 in 250	Vf=1.486	Qa=0.481	Qcap=0.532	
675ø	FJ	Class 2	1 in 260	Vf=1.457	Qa=0.465	Qcap=0.522	
675ø	FJ	Class 2	1 in 260	Vf=1.457	Qa=0.460	Qcap=0.522	
675ø	FJ	Class 2	1 in 300	Vf=1.357	Qa=0.364	Qcap=0.485	
600ø	FJ	Class 2	1 in 250	Vf=1.374	Qa=0.368	Qcap=0.388	
450ø	FJ	Class 2	1 in 50	Vf=2.528	Qa=0.303	Qcap=0.402	
375ø	FJ	STORMPRO PP	1 in 100	Vf=2.065	Qa=0.090	Qcap=0.228	

DEPTH TO INVERT	DESIGN INVERT LEVEL	HYDRAULIC GRADE LEVEL	FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CHAINAGE	LENGTH
424.443	424.518	425.515	427.023	428.029	0.000	L=16.605m
424.590	424.610	425.574	427.023	427.538	16.605	L=8.799m
424.683	424.683	425.716	427.330	427.554	25.404	L=26.353m
424.783	424.803	425.916	426.588	426.948	51.1757	L=23.912m
424.899	424.919	426.023	426.621	426.663	75.669	L=13.843m
424.961	424.961	426.107	426.570	425.665	86.295	L=20.463m
424.972	424.992	426.150	426.570	425.591	89.511	L=29.000m
425.001	425.001	426.271	426.671	425.591	109.974	L=88.435m
425.157	425.157	426.313	426.671	425.788	138.974	L=59.565m
425.182	425.182	426.388	426.671	427.154	227.109	L=36.600m
425.192	425.192	426.416	426.671	427.389	286.974	
425.236	425.236	426.451	426.671	427.881	427.481	
425.152	425.152	426.313	426.671	425.024	0.000	
425.153	425.153	426.313	426.671	426.893	36.600	

File Name: 309954CR600.dwg, Location: Home, CR600, Checked by: Ashley Wilkie, File Location: G:\309954\309954.dwg, LALAD Plot Date: 04/10/2022, 15:27 PM, Sheet 14 of 18 Sheets

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	04/10/22
C	ISSUED FOR TENDER	A.W	15/08/22
B	INTERNAL SPIIRE AMENDMENTS	AW	01/06/22
A	FOR APPROVAL	AW	20/04/22



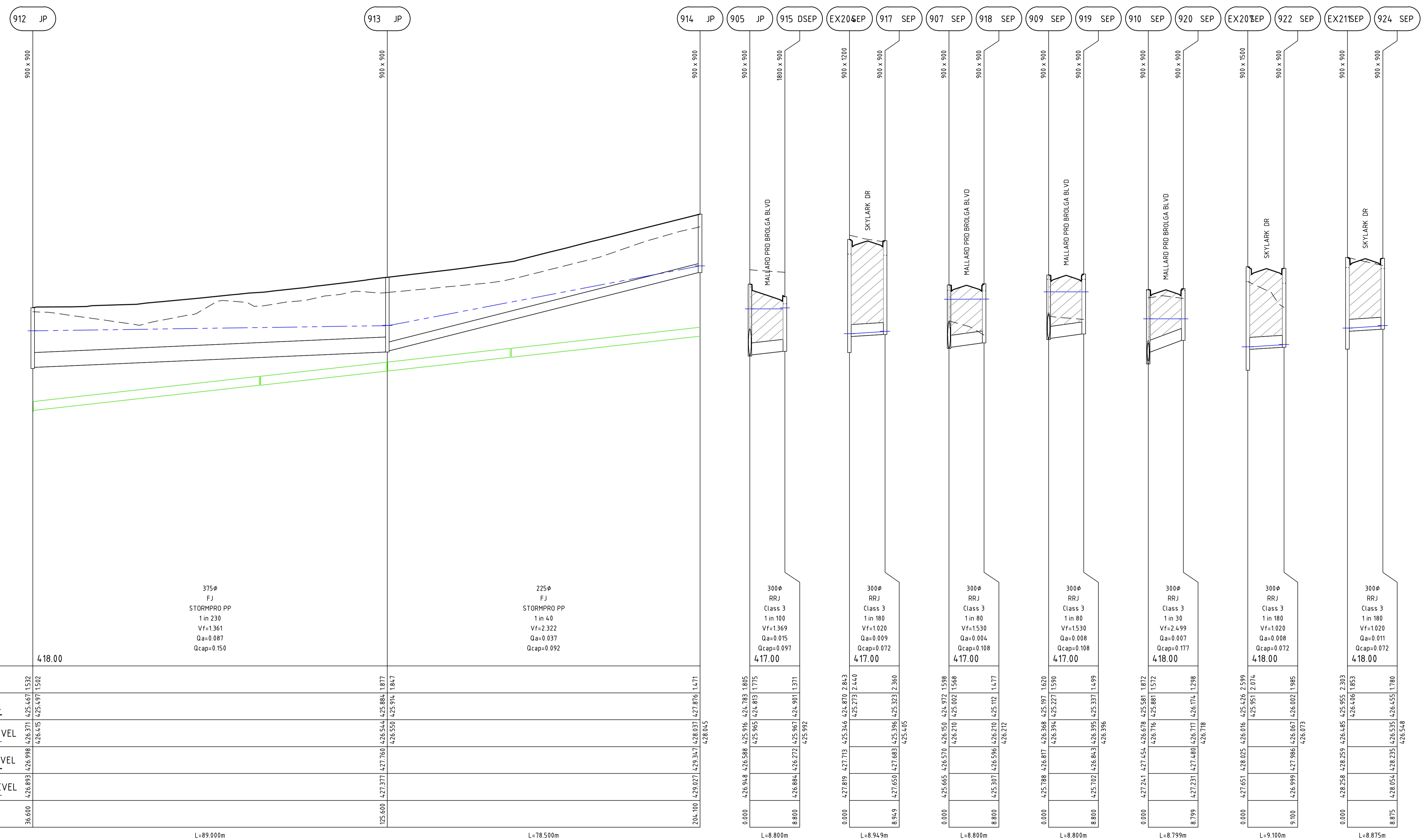
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Designed <b>S.WOOD</b>	Checked <b>B.IBBS</b>
Authorised <b>A.WILKIE</b>	Date 15/08/22

**CONROY'S GREEN**
  
**STAGE 9**
  
**ROAD AND DRAINAGE**
  
**DRAINAGE LONG SECTIONS - SHEET 1**
  
 BALLARAT CITY COUNCIL
   
 SAN HUBERTO PROPERTIES P/L
   
  
 Drg No: 309954CR600    Rev: 0

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 file location: G:\309954\309954\civil\A\CAD\plot\date: 04/10/2022 15:27 PM Sheet 15 of 18 Sheets



Pipe Diameter	375φ	225φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ
Joint Type	FJ	FJ	RRJ	RRJ	RRJ	RRJ	RRJ	RRJ	RRJ	RRJ	RRJ	RRJ
Pipe Class	STORMPRO PP	STORMPRO PP	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3
Pipe Grade	1 in 230	1 in 230	1 in 100	1 in 180	1 in 80	1 in 80	1 in 80	1 in 30	1 in 30	1 in 180	1 in 180	1 in 180
Velocity (m/s)	Vf=1.361	Vf=1.361	Vf=1.369	Vf=1.020	Vf=1.530	Vf=1.530	Vf=1.530	Vf=2.499	Vf=2.499	Vf=1.020	Vf=1.020	Vf=1.020
Pipe Flow (m <sup>3</sup> /s)	Qa=0.087	Qa=0.087	Qa=0.015	Qa=0.009	Qa=0.004	Qa=0.008	Qa=0.008	Qa=0.007	Qa=0.007	Qa=0.008	Qa=0.011	Qa=0.011
Pipe Capacity (m <sup>3</sup> /s)	Qcap=0.150	Qcap=0.150	Qcap=0.097	Qcap=0.072	Qcap=0.108	Qcap=0.108	Qcap=0.108	Qcap=0.177	Qcap=0.177	Qcap=0.072	Qcap=0.072	Qcap=0.072
DATUM R.L.	418.00	418.00	417.00	417.00	417.00	417.00	417.00	418.00	418.00	418.00	418.00	418.00

DEPTH TO INVERT												
DESIGN INVERT LEVEL	426.371	425.467	426.371	425.884	426.371	425.914	426.371	425.914	426.371	425.914	426.371	425.914
HYDRAULIC GRADE LEVEL	426.415	425.497	426.415	425.884	426.415	425.914	426.415	425.914	426.415	425.914	426.415	425.914
FINISHED SURFACE LEVEL												
EXISTING SURFACE LEVEL	426.893	426.998	426.893	426.998	426.893	426.998	426.893	426.998	426.893	426.998	426.893	426.998
CHAINAGE	36.600		125.600		204.100		300.000		388.000		476.000	

L=89.000m

L=78.500m

L=8.800m

L=8.949m

L=8.800m

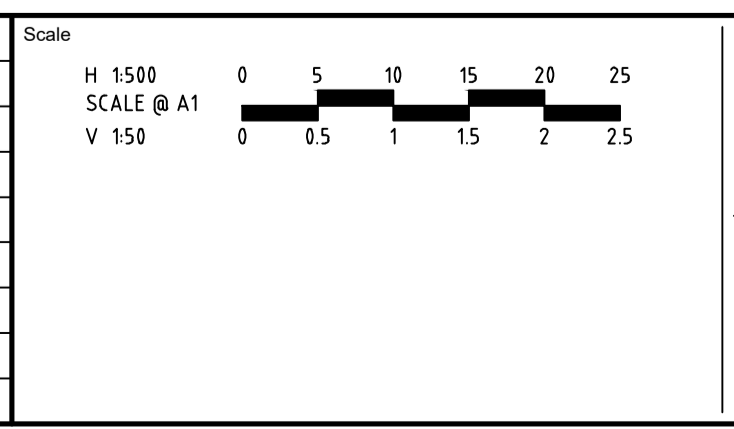
L=8.800m

L=8.799m

L=9.100m

L=8.875m

Scale	H 1500	V 150	
Scale @ A1	0 5 10 15 20 25	0 0.5 1 1.5 2 2.5	
0	ISSUED FOR CONSTRUCTION	A.W	04/10/22
C	ISSUED FOR TENDER	A.W	15/08/22
B	INTERNAL SPIIRE AMENDMENTS	AW	01/06/22
A	FOR APPROVAL	AW	20/04/22
Rev	Amendments	Approved	Date



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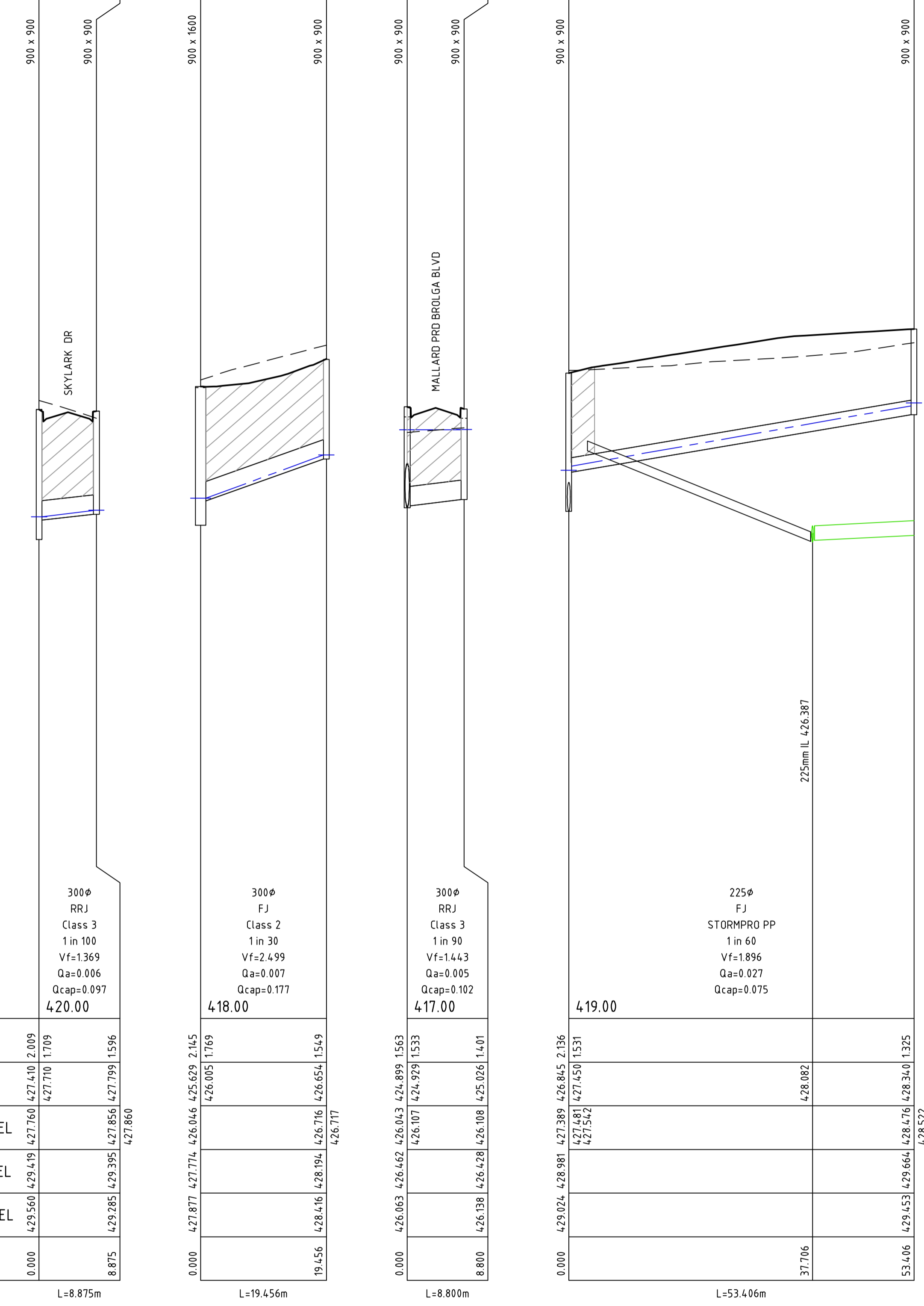
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Designed	S.WOOD	Checked	B.IBBS
Authorised	A.WILKIE	Date	15/08/22

**CONROY'S GREEN**  
**STAGE 9**  
**ROAD AND DRAINAGE**  
**DRAINAGE LONG SECTIONS - SHEET 2**  
 BALLARAT CITY COUNCIL  
 SAN HUBERTO PROPERTIES P/L

Drg No **309954CR601** Rev **0**

EX303SEP 926 SEP EX.203SEP 929 JP 906 SEP 927 SEP 911 JP 928 JP



Pipe Diameter  
Joint Type  
Pipe Class  
Pipe Grade  
Velocity (m/s)  
Pipe Flow (m3/s)  
Pipe Capacity (m3/s)  
DATUM R.L.

300φ  
RRJ  
Class 3  
1 in 100  
Vf=1.369  
Qa=0.006  
Qcap=0.097  
420.00

300φ  
FJ  
Class 2  
1 in 30  
Vf=2.499  
Qa=0.007  
Qcap=0.177  
418.00

300φ  
RRJ  
Class 3  
1 in 90  
Vf=1.443  
Qa=0.005  
Qcap=0.102  
417.00

225φ  
FJ  
STORMPRO PP  
1 in 60  
Vf=1.896  
Qa=0.027  
Qcap=0.075  
419.00

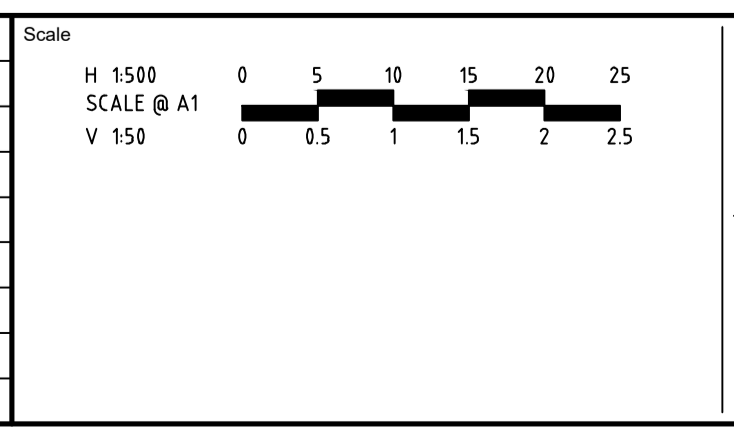
DEPTH TO INVERT	DESIGN INVERT LEVEL	HYDRAULIC GRADE LEVEL	FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CHAINAGE
0.000	427.410	427.710	429.560	429.285	0.000
1.709	427.710	427.710	429.419	429.285	8.875
1.596	427.799	427.856	429.395	429.285	8.875
2.145	425.629	426.046	427.774	428.877	0.000
1.769	426.045	426.046	427.774	428.877	0.000
1.549	426.654	426.716	428.194	428.416	19.456
1.401	425.026	426.108	426.428	426.138	8.800
1.531	427.450	428.107	427.389	428.024	0.000
1.325	428.340	427.562	428.476	429.024	0.000
1.325	428.340	427.562	428.476	429.024	37.706
1.325	428.340	427.562	428.476	429.024	53.406

### PIT SCHEDULE

PIT NAME	PIT TYPE	INTERNAL		INLET		OUTLET		PIT		REMARKS	STEP IRON	LADDER
		WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH			
902	DOUBLE SIDE ENTRY PIT	900	1800	675	424.610	675	424.590	427.023	2.433	REFER TO COB SD-P2-2	X	
903	SIDE ENTRY PIT	900	900	675	424.668	675	424.648	427.330	2.681	REFER TO COB SD-P1-2	X	
905	JUNCTION PIT	900	900	675	424.803	675	424.783	426.588	1.805	REFER TO COB SD-P10-2	X	
906	SIDE ENTRY PIT	900	900	675	424.919	675	424.899	426.462	1.563	REFER TO COB SD-P1-2	X	
907	SIDE ENTRY PIT	900	900	675	424.992	675	424.972	426.570	1.598	REFER TO COB SD-P1-2	X	
908	JUNCTION PIT	900	900	675	425.101	675	425.071	426.672	1.602	REFER TO COB SD-P10-2	X	
909	SIDE ENTRY PIT	900	900	600	425.227	675	425.197	426.817	1.620	REFER TO COB SD-P1-2	X	
910	SIDE ENTRY PIT	900	900	450	425.661	600	425.581	427.454	1.872	REFER TO COB SD-P1-2	X	
911	JUNCTION PIT	900	900	300	425.881	450	426.845	428.981	2.136	REFER TO COB SD-P10-2	X	
912	JUNCTION PIT	900	900	375	425.497	375	425.467	426.998	1.532	REFER TO COB SD-P10-2	X	
913	JUNCTION PIT	900	900	225	425.914	375	425.884	427.760	1.877	REFER TO COB SD-P10-2	X	
914	JUNCTION PIT	900	900	225	427.876	225	427.876	429.347	1.471	REFER TO COB SD-P10-2	X	
915	DOUBLE SIDE ENTRY PIT	900	1800			300	424.901	426.272	1.371	REFER TO COB SD-P2-2	X	
917	SIDE ENTRY PIT	900	900			300	425.323	427.683	2.360	REFER TO COB SD-P1-2	X	
918	SIDE ENTRY PIT	900	900			300	425.112	426.596	1.484	REFER TO COB SD-P1-2	X	
919	SIDE ENTRY PIT	900	900			300	425.337	426.843	1.506	REFER TO COB SD-P1-2	X	
920	SIDE ENTRY PIT	900	900			300	426.174	427.480	1.305	REFER TO COB SD-P1-2	X	
922	SIDE ENTRY PIT	900	900			300	426.002	427.986	1.985	REFER TO COB SD-P1-2	X	
924	SIDE ENTRY PIT	900	900			300	426.455	428.235	1.780	REFER TO COB SD-P1-2	X	
926	SIDE ENTRY PIT	900	900			300	427.799	429.395	1.596	REFER TO COB SD-P1-2	X	
927	SIDE ENTRY PIT	900	900			300	425.026	426.428	1.401	REFER TO COB SD-P1-2	X	
928	JUNCTION PIT	900	900			225	428.340	429.664	1.324	REFER TO COB SD-P1-2	X	
929	JUNCTION PIT	900	0.9			300	426.654	428.194	1.540	REFER TO COB SD-P10-2	X	
Ex209	SIDE ENTRY PIT			300	426.005			427.774	2.145			
Ex203	JUNCTION PIT			675	424.518			427.858	3.415	EXISTING COVER LEVEL TO BE AMENDED. CONVERT EXISTING JUNCTION PIT.		
Ex204	SIDE ENTRY PIT			300	425.273			427.713	2.843	EXISTING COVER LEVEL TO BE AMENDED. CONVERT EXISTING JUNCTION PIT.		
Ex207	SIDE ENTRY PIT			300	425.951			428.025	2.599	EXISTING COVER LEVEL TO BE AMENDED. CONVERT EXISTING JUNCTION PIT.		
Ex211	SIDE ENTRY PIT			300	426.406			428.259	2.303	CONVERT EXISTING JUNCTION PIT.		

file name: 309954CR602.dwg, layout name: CR602, file location: G:\309954\CR602\309954.dwg, CAD plot date: 04/10/2022 15:52, Plot Sheet: 16 of 18 Sheets

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	04/10/22
C	ISSUED FOR TENDER	A.W	15/08/22
B	INTERNAL SPIRE AMENDMENTS	AW	01/06/22
A	FOR APPROVAL	AW	20/04/22



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spiire.com.au ABN 55 050 029 635

Designed <b>S.WOOD</b>	Checked <b>B.IBBS</b>
Authorised <b>A.WILKIE</b>	Date 15/08/22

**CONROY'S GREEN**  
**STAGE 9**  
**ROAD AND DRAINAGE**  
**DRAINAGE LONG SECTIONS - SHEET 3**  
BALLARAT CITY COUNCIL  
SAN HUBERTO PROPERTIES P/L

CONSTRUCTION 309954CR602

Rev 0



**DESIGN PAVEMENT PROFILE**

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		TYPE A* (ACCESS STREET 1)
ASPHALT WEARING COURSE (mm)	SIZE 10mm TYPE N ASPHALT CLASS 320 BITUMEN	40
SAMI LAYER		YES
PRIMER COURSE	PRIME OR 7mm PRIMERSEAL	YES
BASE COURSE (mm)	CLASS 1 or 2 20mm FCR, COMPACTED TO 98% (MDD)	150
SUBBASE COURSE (mm)	CLASS 3 20mm or 40mm FCR, COMPACTED TO 97% (MDD)	220
CAPPING LAYER (mm)	IMPORTED PRODUCT WITH A MINIMUM CBR OF 10, SWELL NO GREATER THAN 15%, PERMEABILITY NO GREATER THAN 5X10-9M/S AND BE COMPACTED TO A MINIMUM DENSITY RATIO OF 98% STANDARD.	150
TOTAL PAVEMENT DEPTH		560

ROAD NAME	TYPE
BROLGA BOULEVARD	A
MALLARD PARADE	A
SKYLARK DRIVE	A
WREN WAY	A
STORK STREET	A

**GENERAL NOTES:**

- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE; OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
- PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
- CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
- SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
- ALL DOWELS TO BE GRADE 250R STEEL BARS, 450mm LONG AND PLACED AT 300mm CENTRES. REFER CCAA - "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" FOR DOWEL DIAMETERS. DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.
- ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.

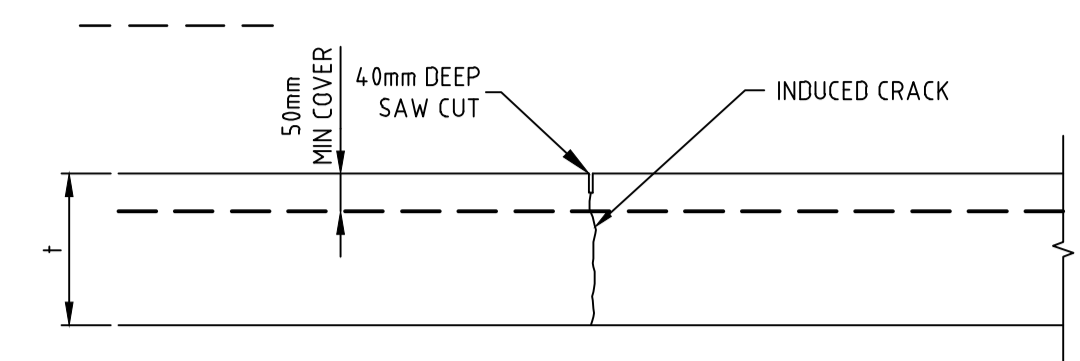


**PAVEMENT PLAN**

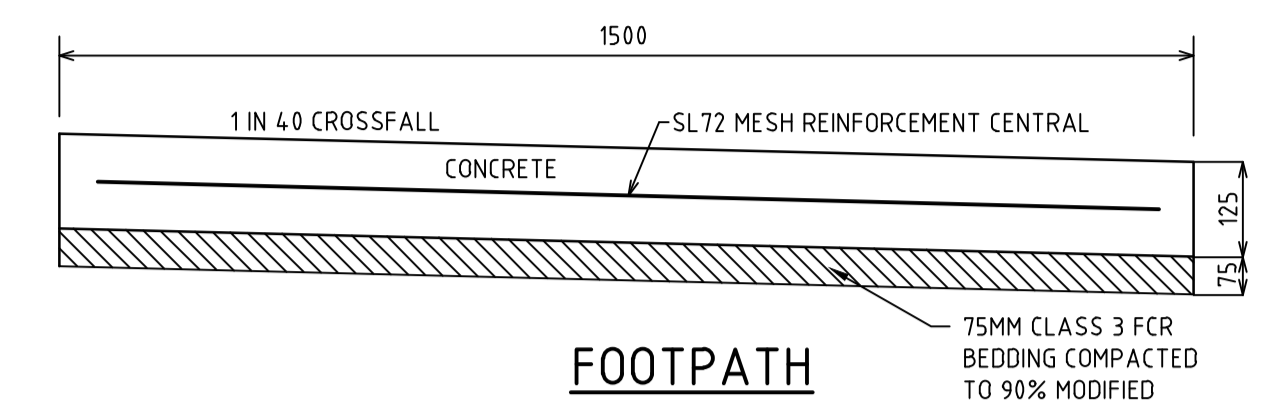
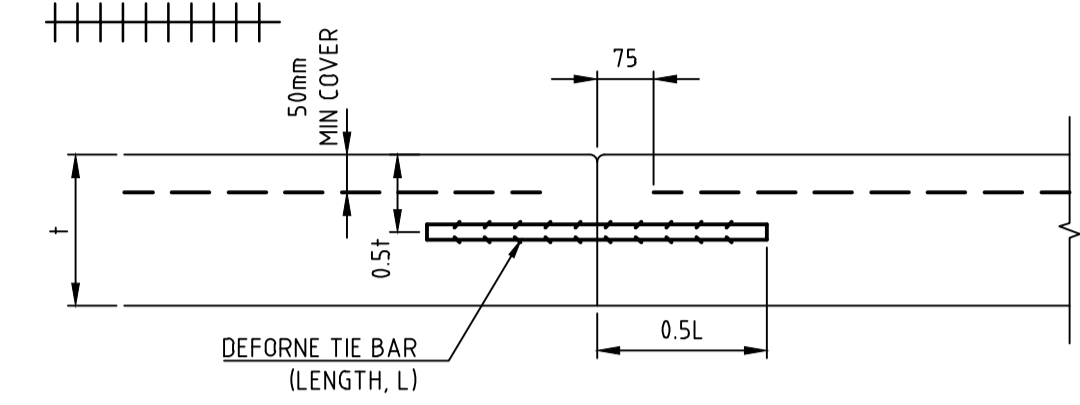
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**SAW CUT**

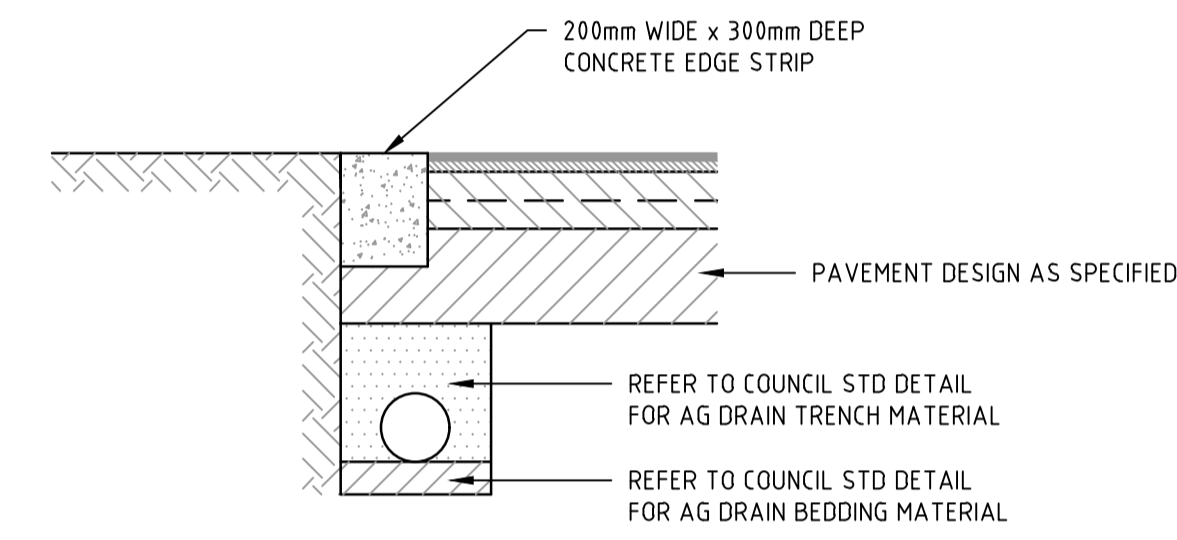


**CONSTRUCTION JOINT**

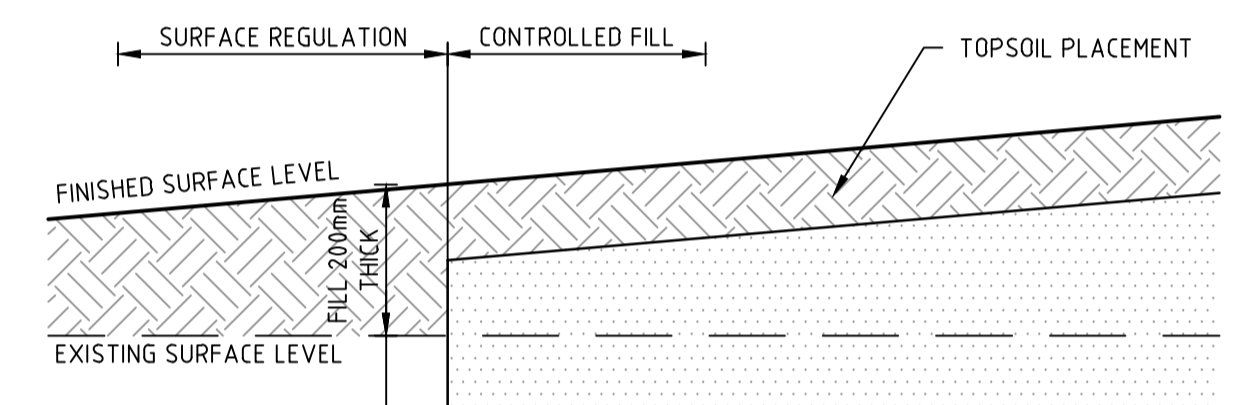


**FOOTPATH**

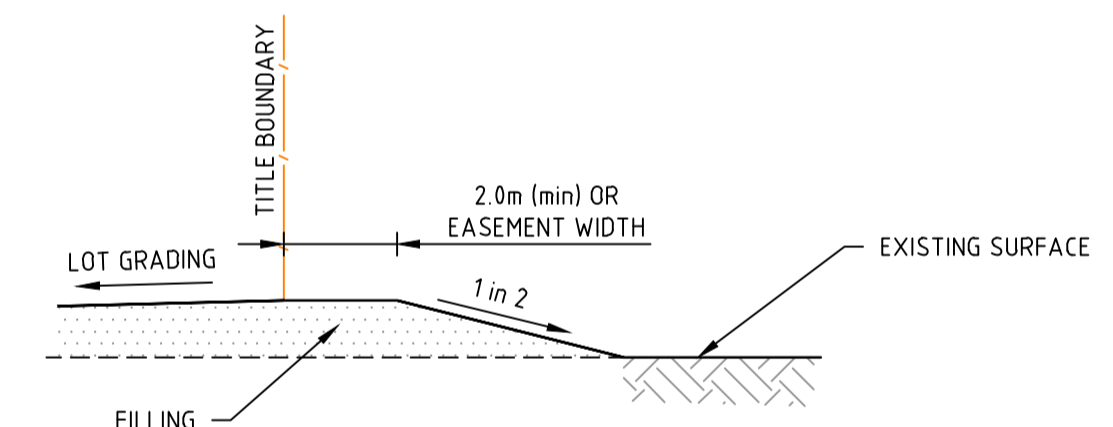
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GENERALLY AS PER COB 50-K3-2  
FOOTPATH TO BE 25MPa FOR RESIDENTIAL



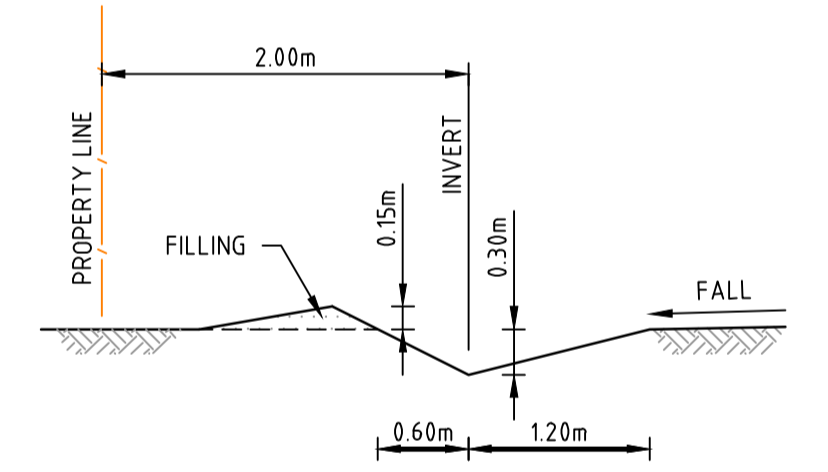
**LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL**



**LOT REGRADING DETAIL**

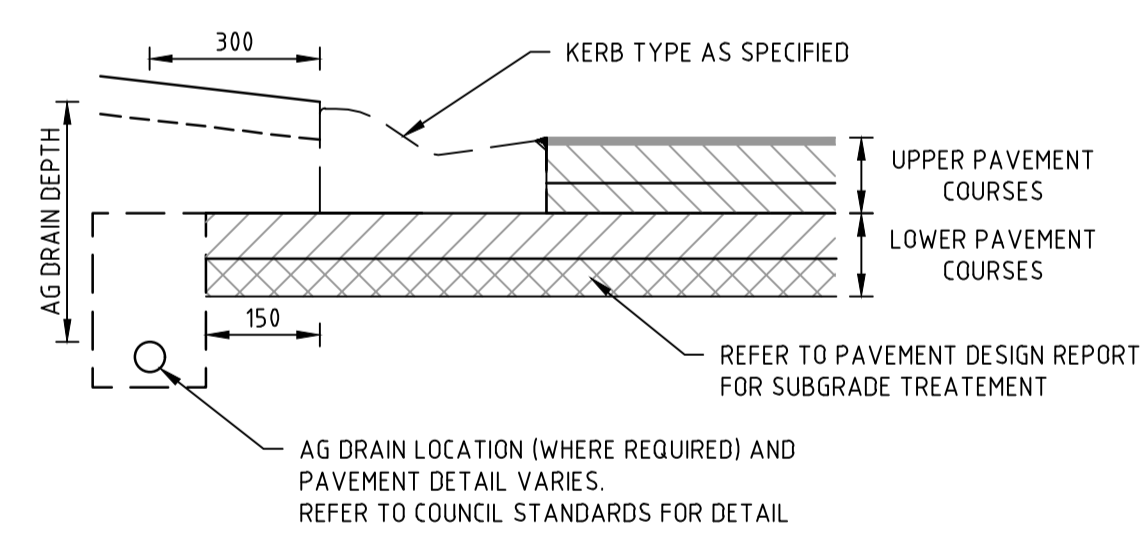


**LOT FILLING AT STAGE BOUNDARY**

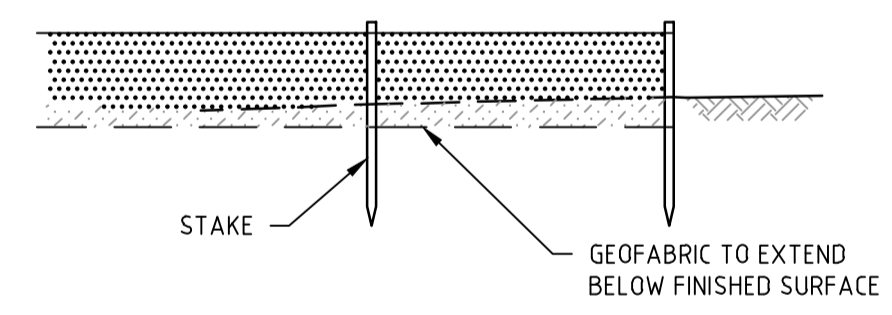


**TYPICAL CATCH DRAIN SECTION**

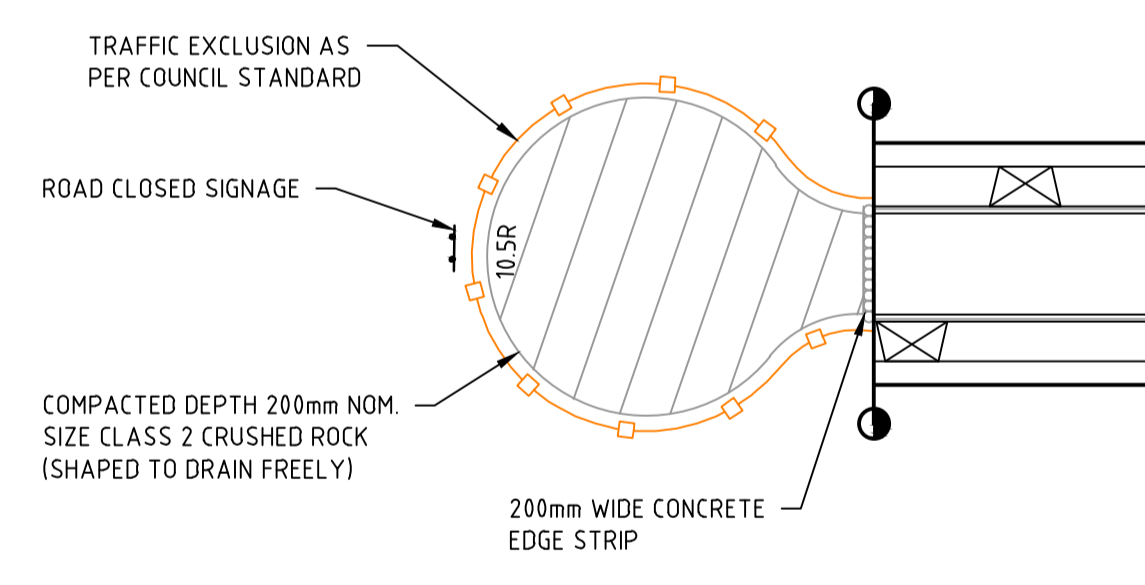
NOT TO SCALE



**TYPICAL SUBSURFACE DRAIN DETAIL FOR NON-EXPANSIVE SUBGRADE**



**SILT CONTROL FOR LOTS**



**TEMPORARY TURNING AREA DETAIL**

NOT TO SCALE

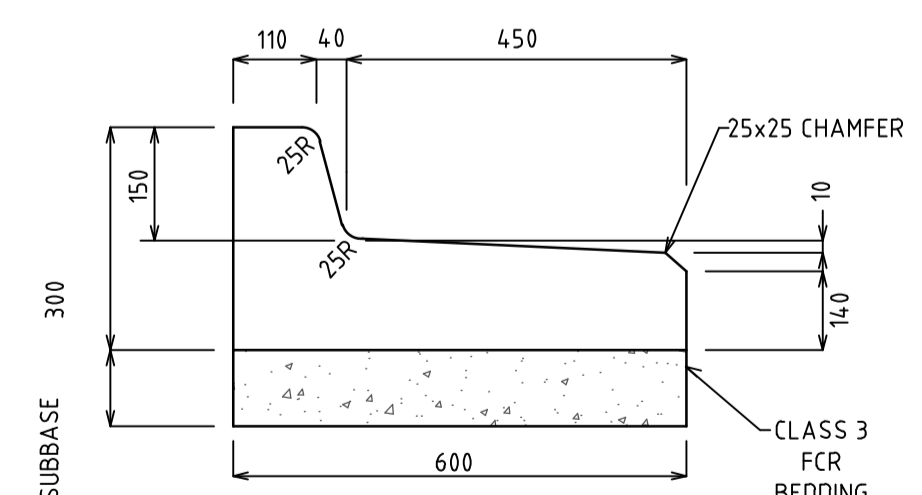
**PAVEMENT DETAILS**

THE PAVEMENT DESIGNS SHOWN 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.

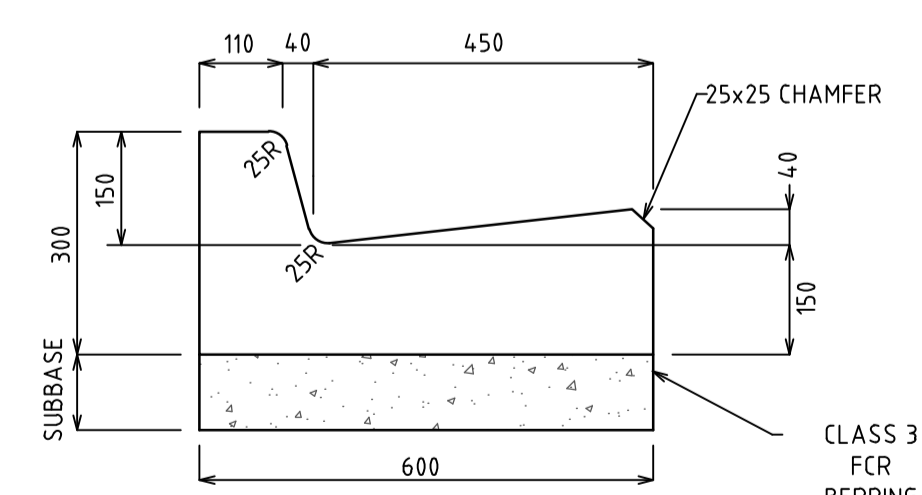
THE DESIGN HAS BEEN EXTRACTED FROM THE GTS REPORT ON "520 GREENHALGHS ROAD, WINTER VALLEY" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

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

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**B3 - STANDARD KERB & CHANNEL**



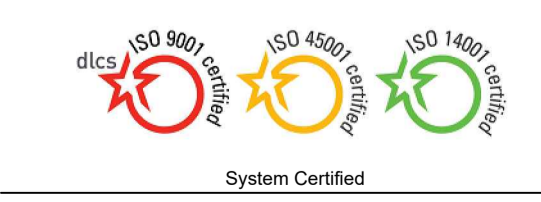
**B2 - STANDARD KERB & CHANNEL**

**STANDARD KERB PROFILES**

NOT TO SCALE

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Rev	Description	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	04/10/22
C	ISSUED FOR TENDER	A.W	15/08/22
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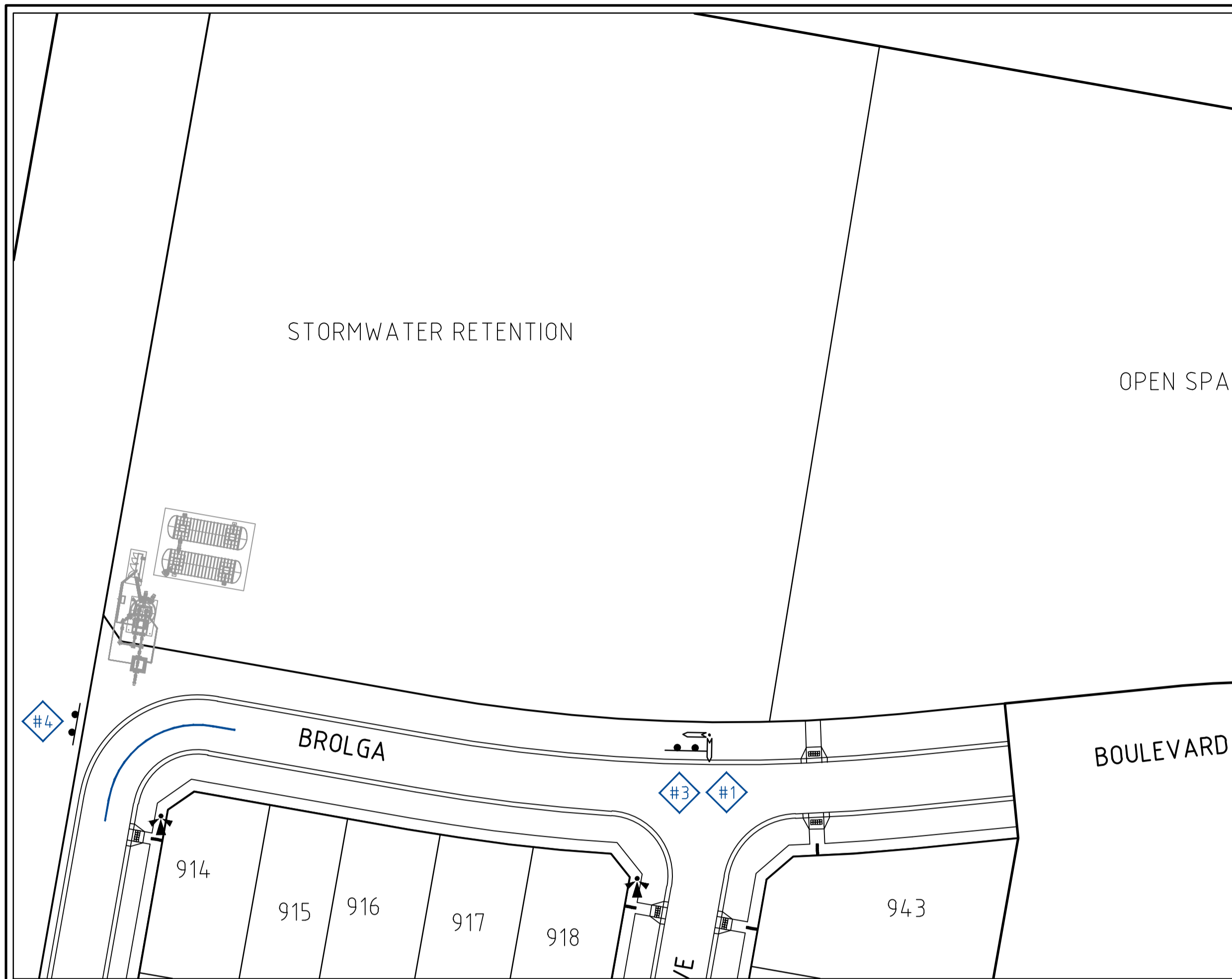
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Designed  
**S.WOOD**  
Authorised  
**A.WILKIE**

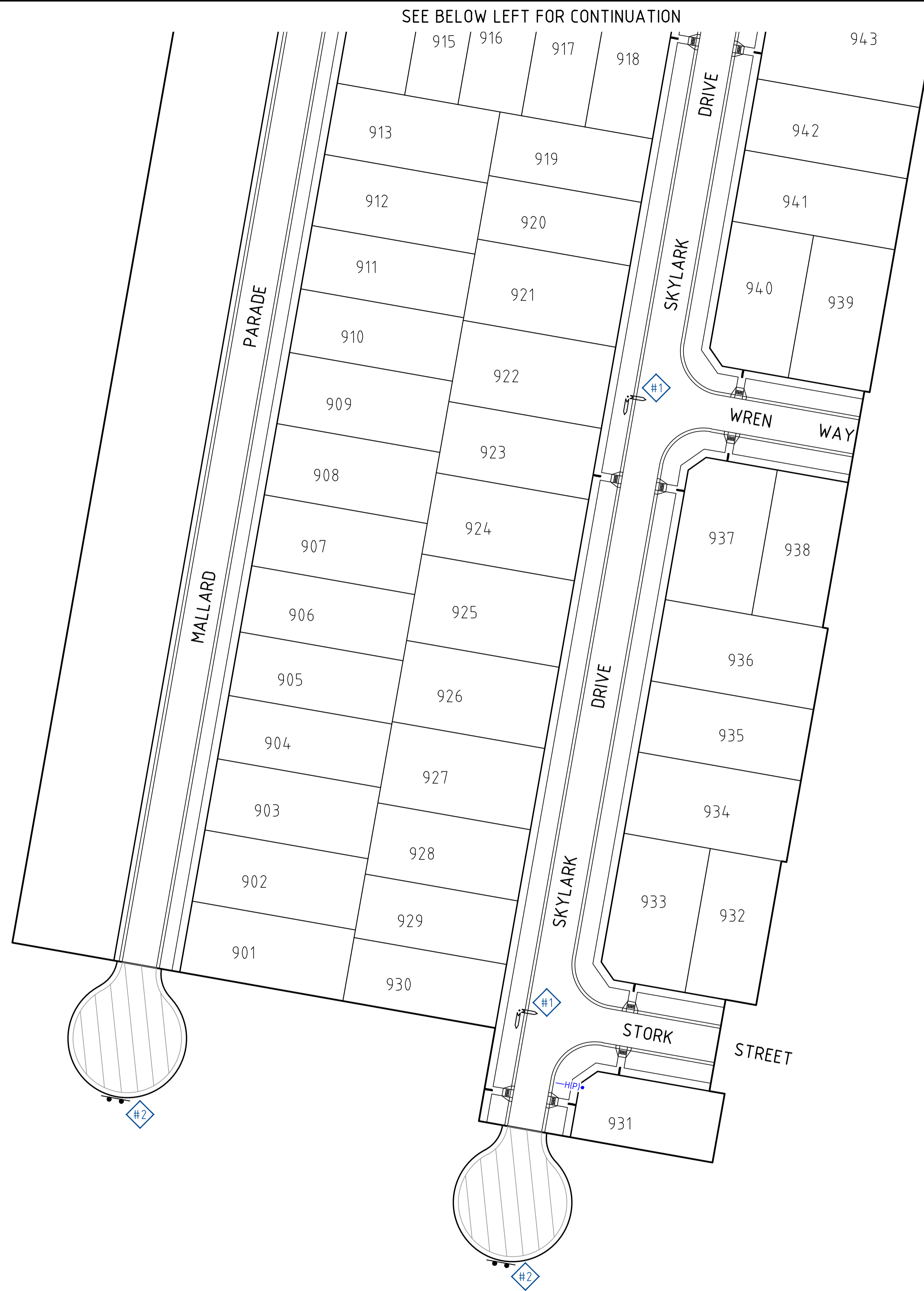
Checked  
**B.IBBS**  
Date  
15/08/22

**CONROY'S GREEN**  
**STAGE 9**  
**ROAD AND DRAINAGE**  
**PAVEMENT AND TYPICAL DETAILS**  
BALLARAT CITY COUNCIL  
SAN HUBERTO PROPERTIES P/L

**CONSTRUCTION** Drg No **309954CR700** Rev **0**



SEE ABOVE RIGHT FOR CONTINUATION



SEE BELOW LEFT FOR CONTINUATION

**LEGEND**

- #1 STREET NAME PLATES TO BE IN ACCORDANCE WITH CITY OF BALLARAT STANDARDS, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE
- #2 ROAD CLOSED G9-20
- #3 D4-2-1
- #4 D4-1-3
- TACTILE GROUND SURFACE INDICATORS (TGSI's)

**NOTE:**

- STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY THE RELOCATION.
- LINEMARKING TO BE IN ACCORDANCE WITH AS1742.2 - 2009

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	04/10/22
D	LINEMARKING (BROLGA/MALLARD) & SIGNS #3 & #4 ADDED	AW	26/09/22
C	ISSUED FOR TENDER	A.W	15/08/22
B	INTERNAL SPIIRE AMENDMENTS	AW	01/06/22
A	FOR APPROVAL	AW	20/04/22



System Certified

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Designed S.WOOD	Checked B.IBBS
Authorised A.WILKIE	Date 15/08/22

**CONROY'S GREEN  
STAGE 9  
ROAD AND DRAINAGE  
SIGNAGE AND LINEMARKING**  
BALLARAT CITY COUNCIL  
SAN HUBERTO PROPERTIES P/L

**CONSTRUCTION** Dwg No 309954CR800 Rev 0

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