



NOTES:

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Rev	Date	Description	Drawn	Appr.
8	13.09.23	FINAL CONCEPT DESIGN	IM	FA
7	16.02.23	ALIGNMENT 3B REVISION	SB	FA
6	15.11.22	ALIGNMENT 3B REVISION	SB	FA
5	22.04.22	FINAL CONCEPT DESIGN	SB	SP
4	07.03.22	ISSUED FOR INFORMATION	SE	MOK
3	31.10.21	ADDRESSING STAKEHOLDER COMMENTS	SE	PC
2	23.07.19	ADDRESSING STAKEHOLDER COMMENTS	YG	FH
1	02.05.19	ISSUED FOR INFORMATION	NV	EA

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Checked	C.MENDOZA
Authorised	M.O.KHAN

Client	VICTORIAN PLANNING AUTHORITY
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
Title	RD03A - CH 1180 - CH 1540 ALIGNMENT PLAN

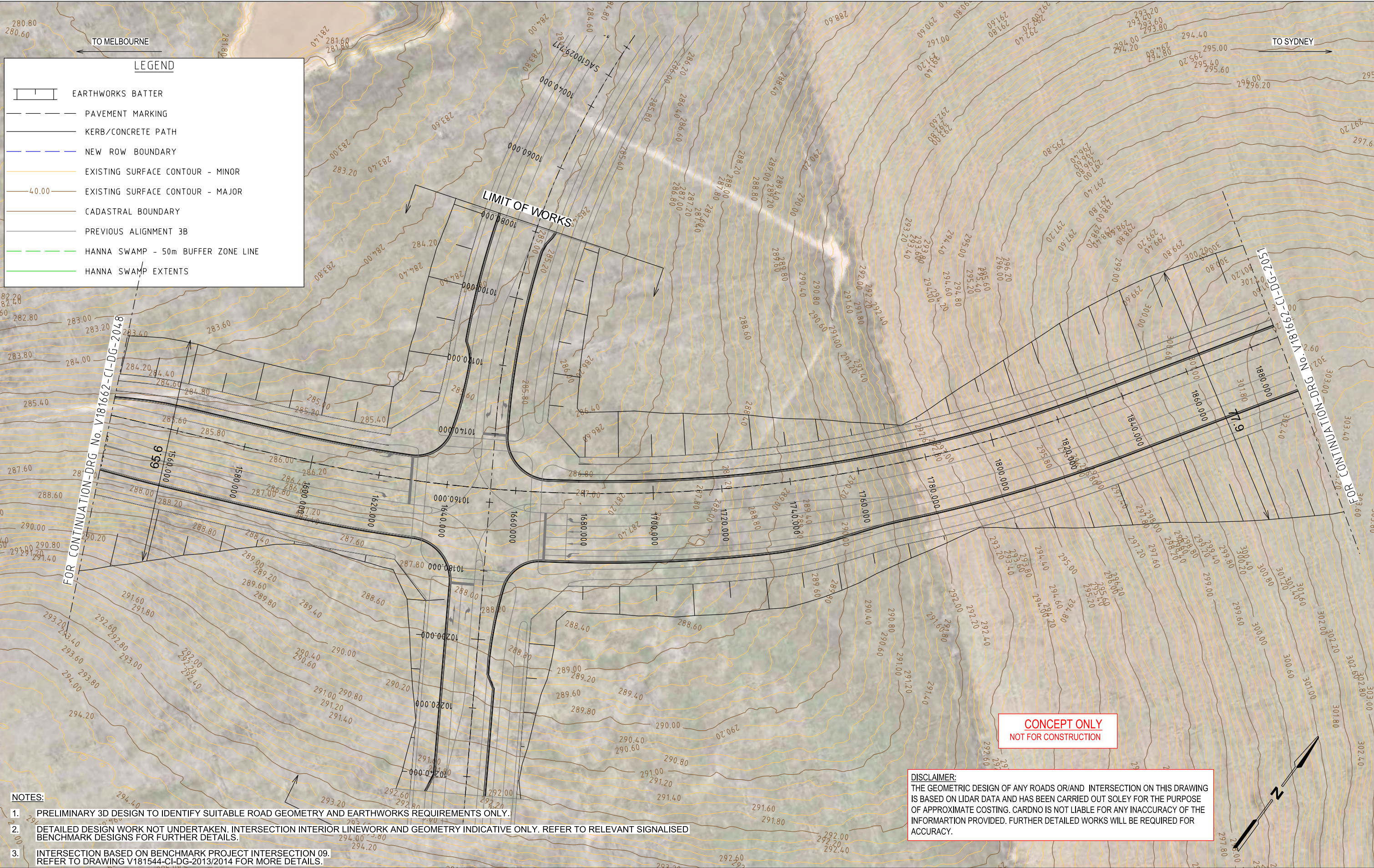
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Date	13.09.23	Scale	1:1000
Drawing Number	V181662-CI-DG-2048	Sheet No.	8

Revision	
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BY: _USER_

DATE PLOTTED: 13/09/2023 4:20:31 PM

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8	13.09.23	FINAL CONCEPT DESIGN	SB	FA
7	16.02.23	ALIGNMENT 3B REVISION	SB	FA
6	15.11.22	ALIGNMENT 3B REVISION	SB	FA
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1	02.05.19	ISSUED FOR INFORMATION	NV	EA
Rev	Date	Description	Drawn	Appr.

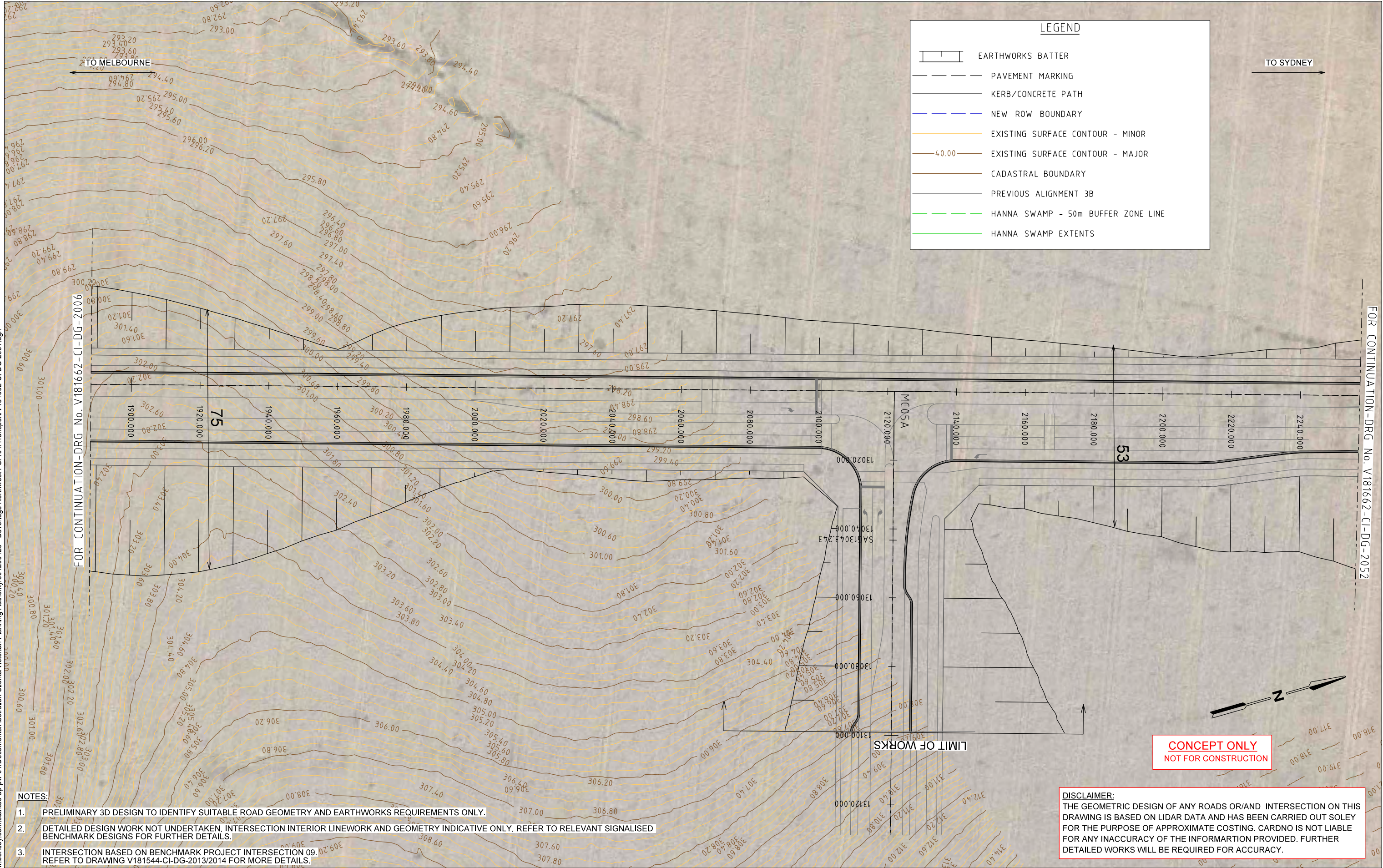
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Designed	S.BECKHAM
Checked	C.MENDOZA
Authorised	M.O.KHAN

Client	VICTORIAN PLANNING AUTHORITY		
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS		
Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Date	13.09.23	Scale	1:1000
Drawing Number	V181662-CI-DG-2049		
Sheet No.	Revision		8
Title	INTERSECTION - 06A RD03A - CH 1540 - CH 1890 ALIGNMENT PLAN		



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 3. INTERSECTION BASED ON BENCHMARK PROJECT INTERSECTION 09. REFER TO DRAWING V181544-CI-DG-2013/2014 FOR MORE DETAILS.

Rev	Date	Description	Drawn	Appr.
3	13.09.23	FINAL CONCEPT DESIGN	IM	FA
2	22.04.22	FINAL CONCEPT DESIGN	SB	SP
1	07.03.22	NEW ALIGNMENT RD03A ADDED	SE	MOK

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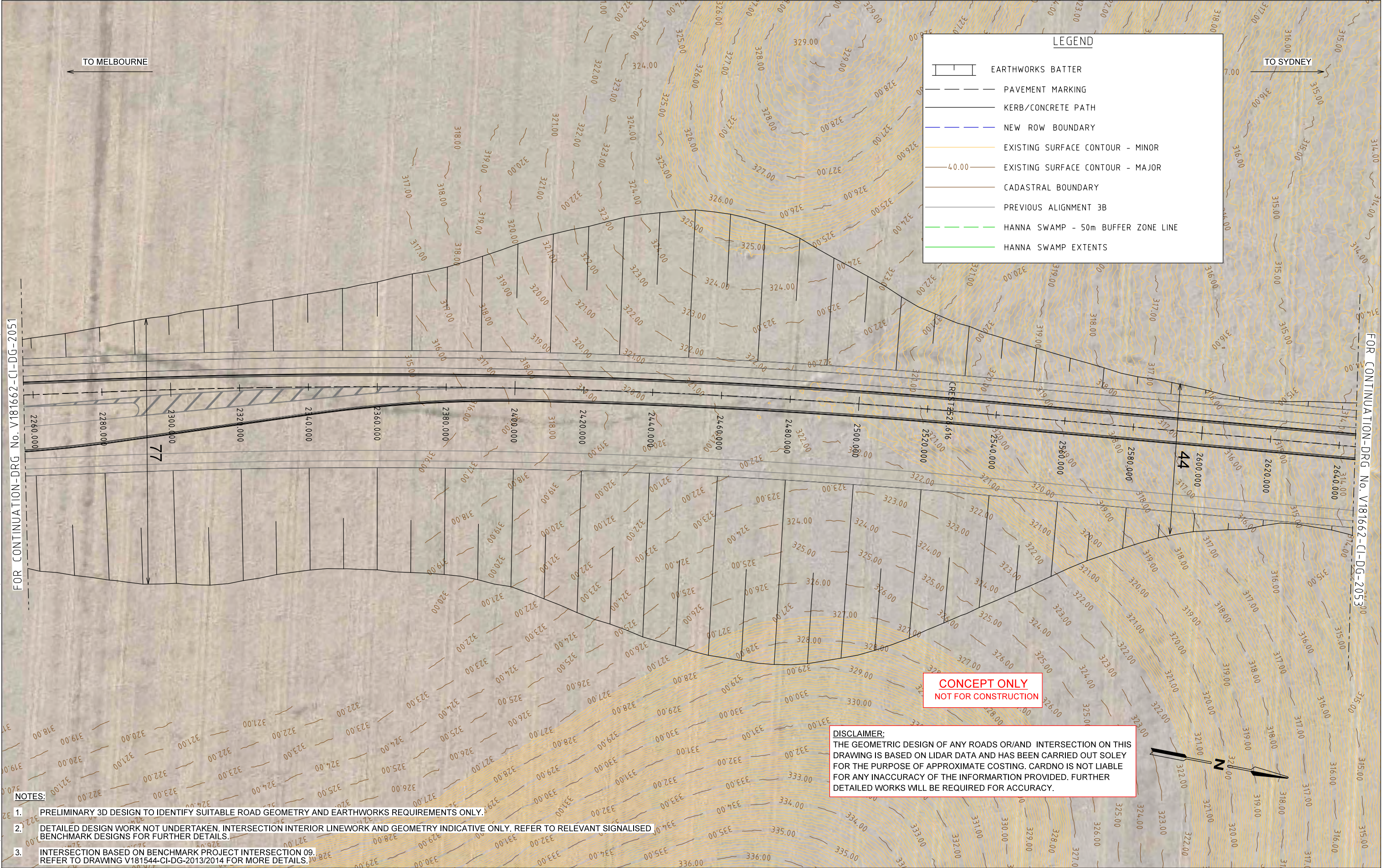
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Checked	C.MENDOZA
Authorised	M.O.KHAN

Client	VICTORIAN PLANNING AUTHORITY
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
Title	RD03A - CH 1890 - CH 2260 ALIGNMENT PLAN

Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Date	13.09.23	Scale	1:1000
Drawing Number	V181662-CI-DG-2051	Sheet No.	3



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Designed	S.BECKHAM	Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS		
Checked	C.MENDOZA	Title	RD03A - CH 2100 - CH 2450 ALIGNMENT PLAN		
Authorised	M.O.KHAN				
		Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
		Date	13.09.23	Scale	1:1000
		Drawing Number	V181662-CI-DG-2052		Sheet No.
					Revision
					3

Rev	Date	Description	Drawn	Appr.
3	13.09.23	FINAL CONCEPT DESIGN	IM	FA
2	22.04.22	FINAL CONCEPT DESIGN	SB	SP
1	07.03.22	NEW ALIGNMENT RD03A ADDED	SE	MOK



Rev	Date	Description	Drawn	Appr.
4	13.09.23	ALIGNMENT 3B REVISION	IM	FA
3	15.11.22	ALIGNMENT 3B REVISION	SB	FA
2	22.04.22	FINAL CONCEPT DESIGN	SB	SP
1	07.03.22	NEW ALIGNMENT RD03A ADDED	SE	MOK

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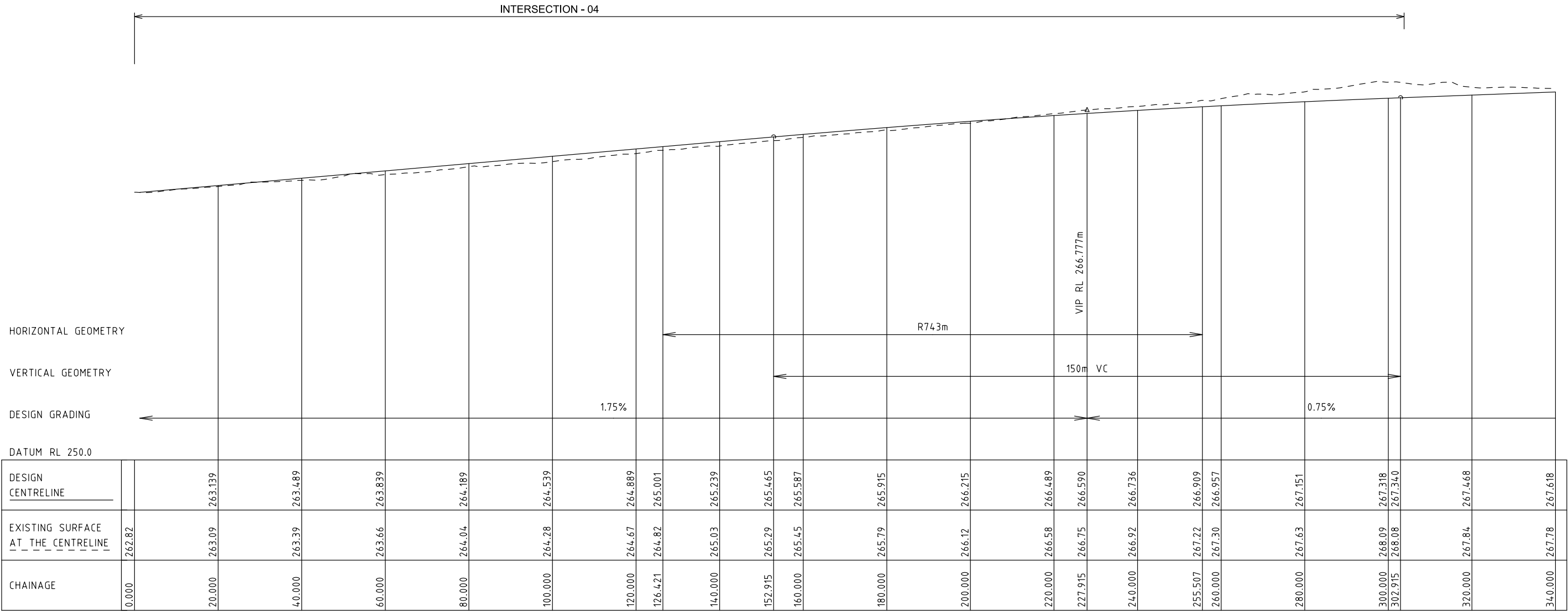
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Checked	C.MENDOZA
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Client	VICTORIAN PLANNING AUTHORITY
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
Title	RD03A - CH 2450 - CH 2800 ALIGNMENT PLAN

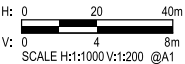
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Date	13.09.23
Scale	1:1000
Size	A3
Drawing Number	V181662-CI-DG-2053
Sheet No.	4
Revision	



ALIGNMENT 03 - LONGITUDINAL SECTION
Scale H: 1:1000
V: 1:200

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4	07.03.22	ISSUED FOR INFORMATION	SE	MOK	
3	31.10.21	ADDRESSING STAKEHOLDER COMMENTS	SE	PC	
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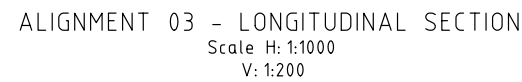
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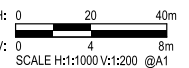


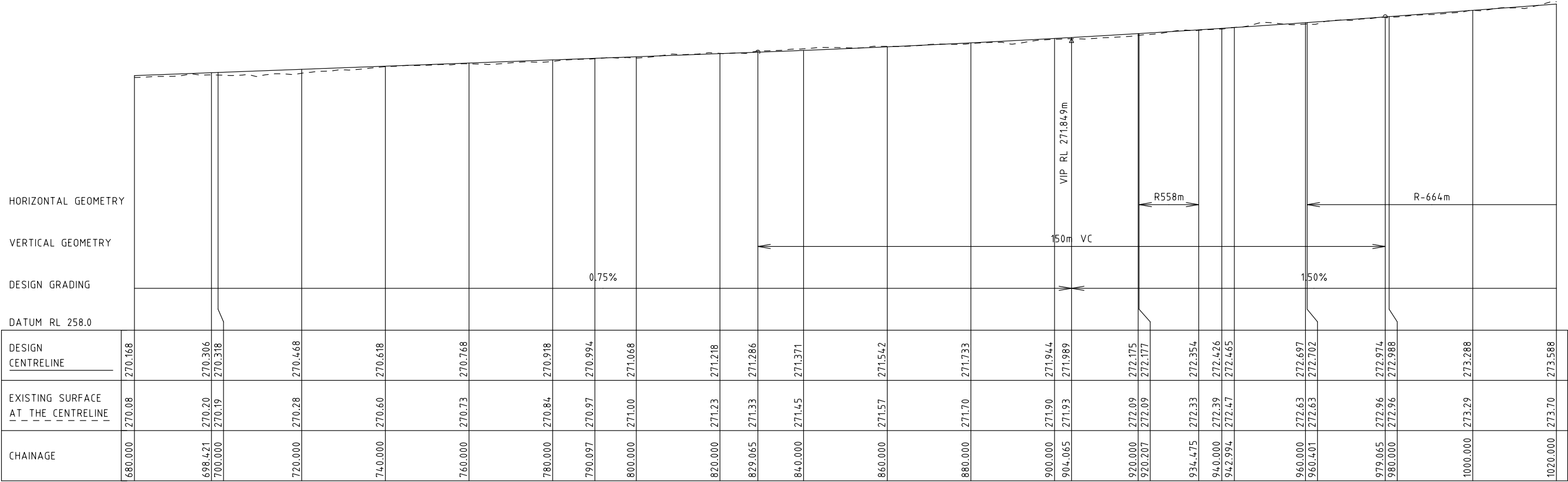
Drawn A. PANDEY	Client VICTORIAN PLANNING AUTHORITY
Designed S.BECKHAM	Project BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
Checked C.MENDOZA	Status PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES
Authorised M.O.KHAN	Date 13.09.23
	Scale H 1:1000; V 1:200
	Size A3
	Drawing Number V181662-CI-DG-3001
	Sheet No. 46
	Revision 6

RD03 - CH 0 - CH 340
LONGITUDINAL SECTION



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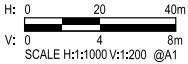
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ALIGNMENT 03 - LONGITUDINAL SECTION
Scale H: 1:1000
V: 1:200

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5	22.04.22	FINAL CONCEPT DESIGN	SB	SP	
4	07.03.22	ISSUED FOR INFORMATION	SE	MOK	
3	31.10.21	ADDRESSING STAKEHOLDER COMMENTS	SE	PC	
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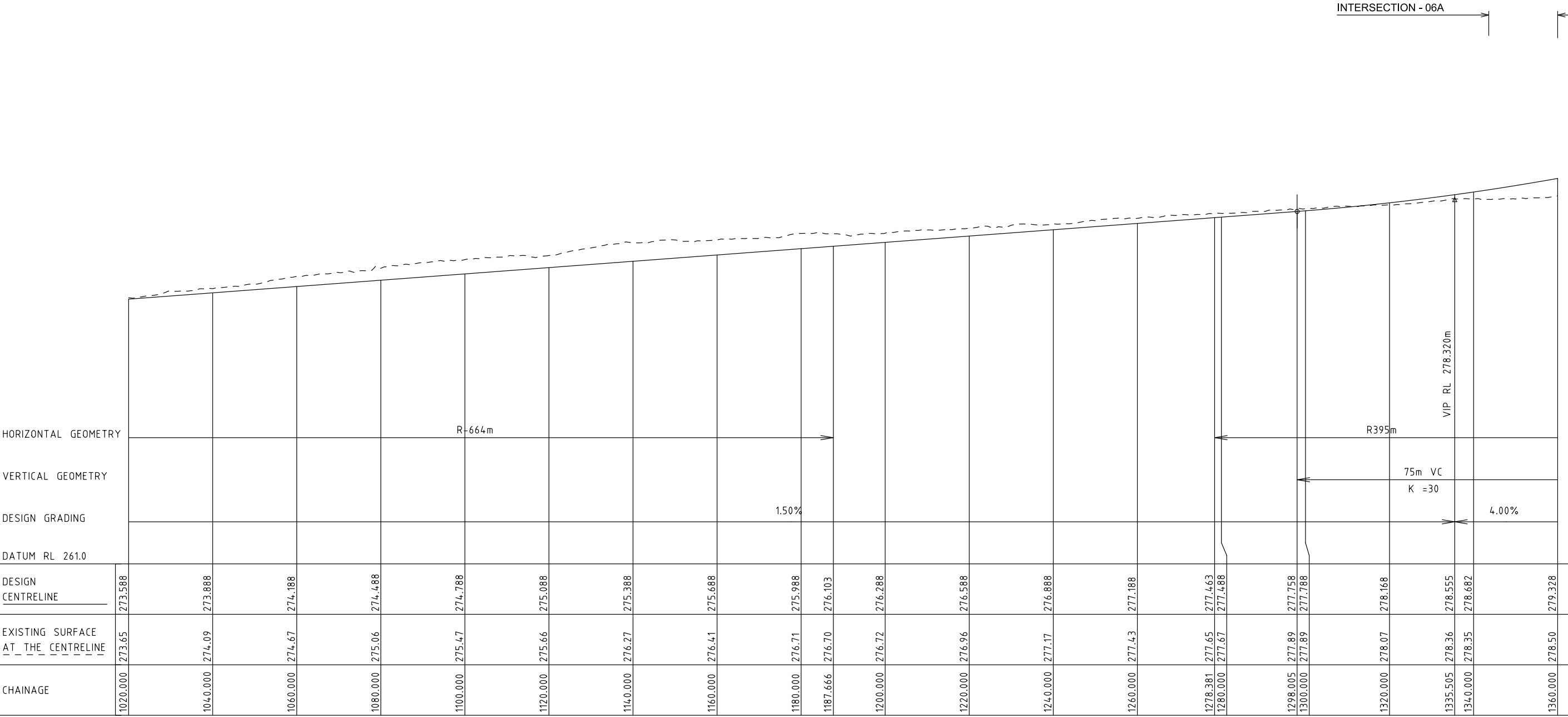
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Checked	C.MENDOZA
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Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS		
Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Date	13.09.23	Scale	H 1:1000; V 1:200
Drawing Number	V181662-CI-DG-3003	Sheet No.	48
Title	RD03 - CH 680 - 1020 LONGITUDINAL SECTION	Size	A3
		Revision	6

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MC03A - LONGITUDINAL SECTION
Scale H: 1:1000
V: 1:200

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H: 0 20 40m
V: 0 4 8m
SCALE H:1:1000 V:1:200 @A1

3	13.09.23	FINAL CONCEPT DESIGN	IM	FA	
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1	07.03.22	NEW ALIGNMENT RD03A ADDED	SE	MOK	
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Designed S.BECKHAM	Project BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS		Status PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES
Checked C.MENDOZA			Date 13.09.23
Authorised M.O.KHAN	Title RD03A - CH 1700 - CH 2040 LONGITUDINAL SECTION		Scale H 1:1000; V 1:200
			Size A3
		Drawing Number V181662-CI-DG-3011	Sheet No. 54
			Revision 3

INTERSECTION - 06A

75m VC
K = 30

4.00%

R-395m

60m VC
K = 40

2.50%

R-410m

1373.005	278.64	279.820
1380.000	278.88	280.100
1400.000	279.64	280.900
1420.000	280.51	281.700
1440.000	281.56	282.500
1460.000	282.65	283.300
1470.591	283.17	283.724
1480.000	283.68	284.089
1500.000	284.58	284.792
1500.591	284.61	284.811
1506.613	284.93	285.002
1520.000	285.38	285.395
1530.591	285.63	285.674
1540.000	285.75	285.909
1560.000	285.96	286.409
1580.000	285.92	286.909
1590.816	285.94	287.179
1600.000	285.98	287.409
1620.000	286.25	287.909
1640.000	286.33	288.409
1660.000	286.69	288.909
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1700.000	287.32	289.909

H: 0 20 40m
V: 0 4 8m
SCALE H:1:1000 V:1:200 @A1

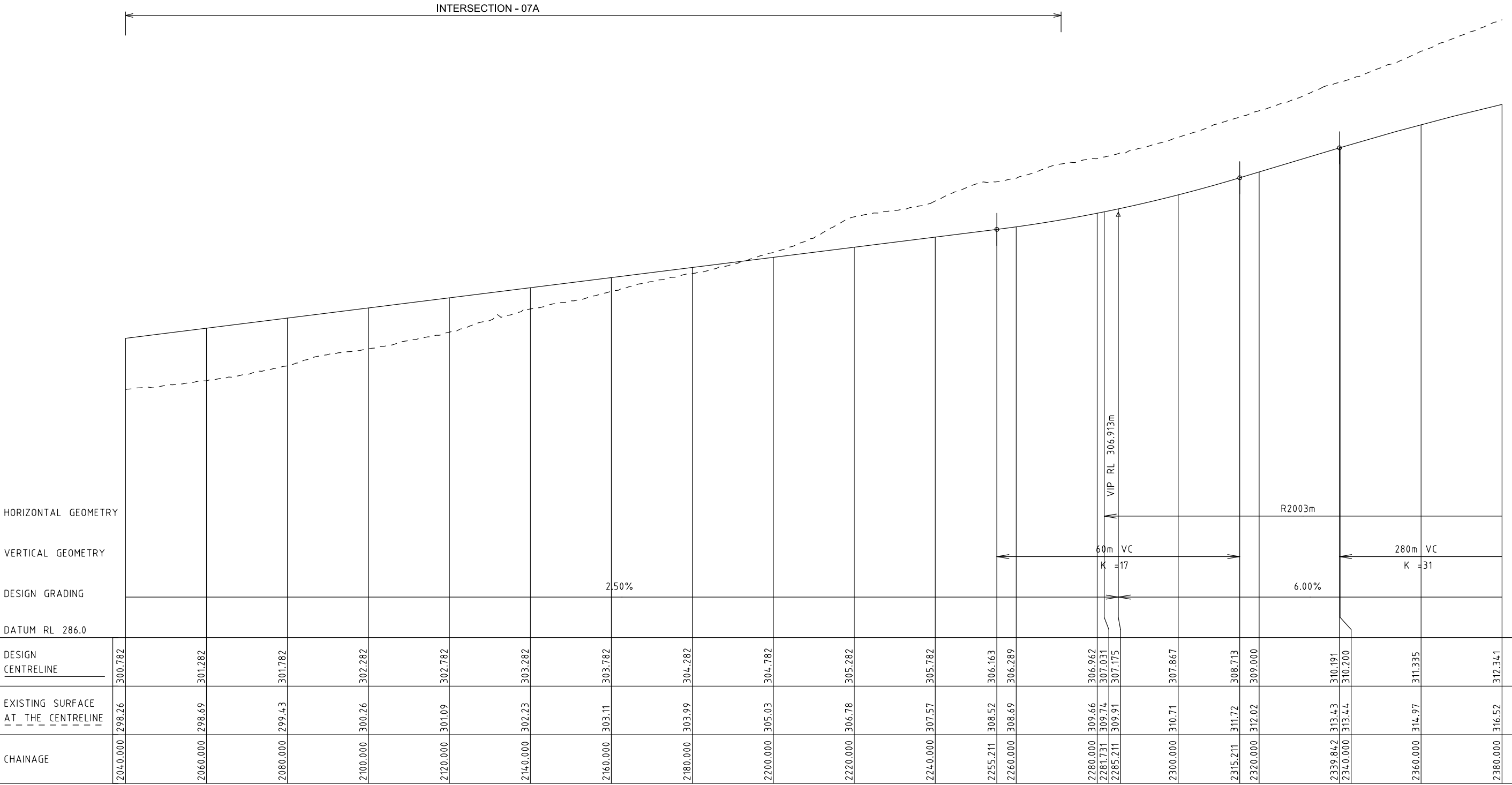
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H: 0 20 40m
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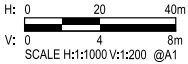
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MC03A - LONGITUDINAL SECTION
Scale H: 1:1000
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3	13.08.23	FINAL CONCEPT DESIGN		IM	FA
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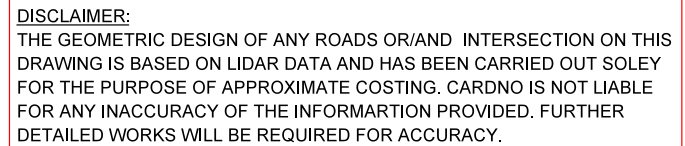
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Designed	S.BECKHAM
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Authorised	M.O.KHAN

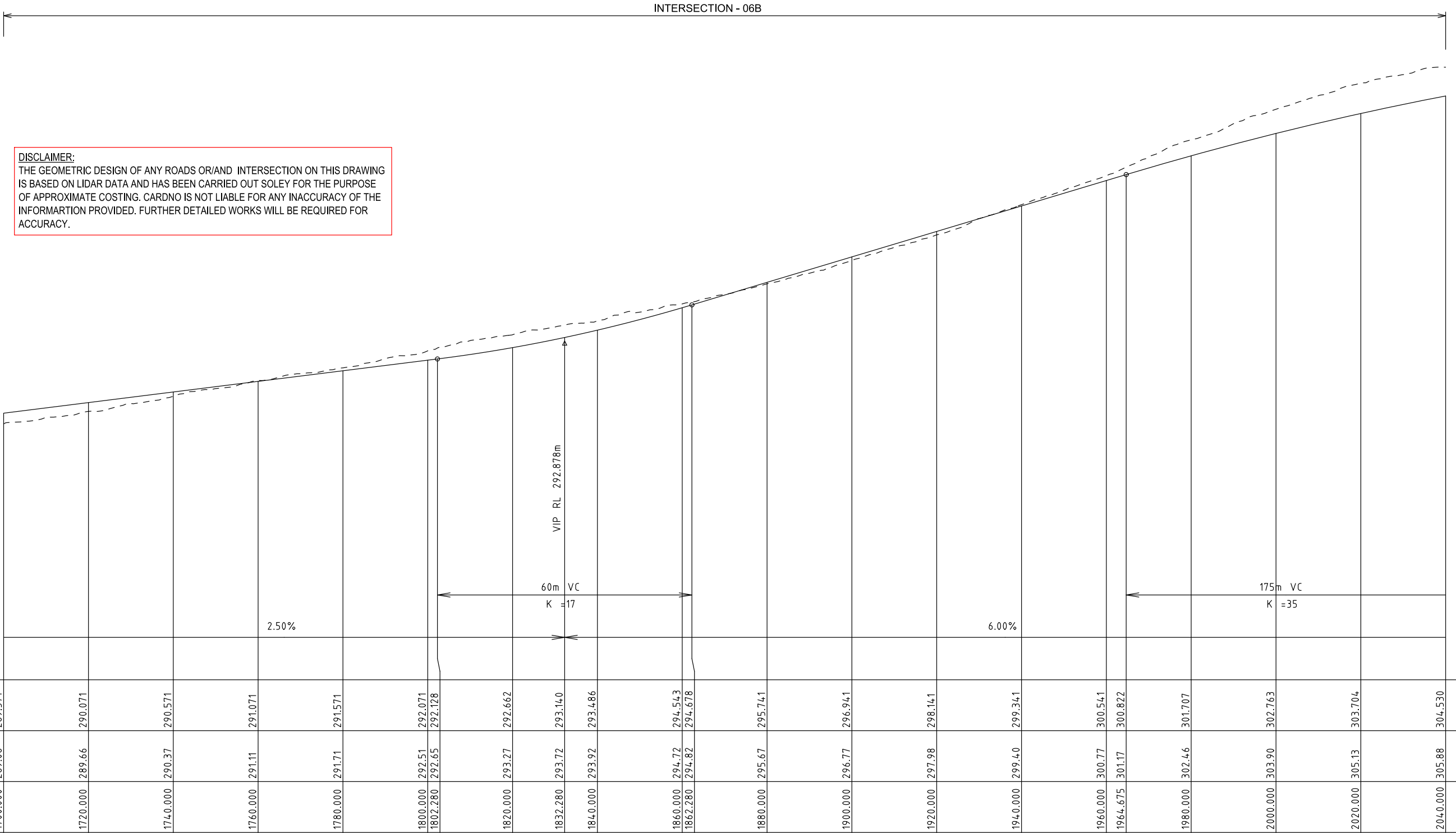
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Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
Title	RD03A - CH 2720 - 2876.192 LONGITUDINAL SECTION

Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES
Date	13.09.23
Scale	H 1:1000; V 1:200
Size	A3
Drawing Number	V181662-CI-DG-3014
Sheet No.	57
Revision	3



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MC03B - LONGITUDINAL SECTION
Scale H: 1:1000
V: 1:200

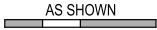
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9	13.09.23	FINAL CONCEPT DESIGN	IM	FA
8	17.08.23	FINAL CONCEPT DESIGN	AP	FA
7	16.02.23	ALIGNMENT 3B REVISION	SB	FA
6	15.11.22	ALIGNMENT 3B REVISION	SB	FA
5	22.04.22	FINAL CONCEPT DESIGN	SB	SP
4	07.03.22	ISSUED FOR INFORMATION	SE	MOK
3	31.10.21	NEW ALIGNMENT 3B & ADDRESS S/HOLDER COMMENTS	SE	PC
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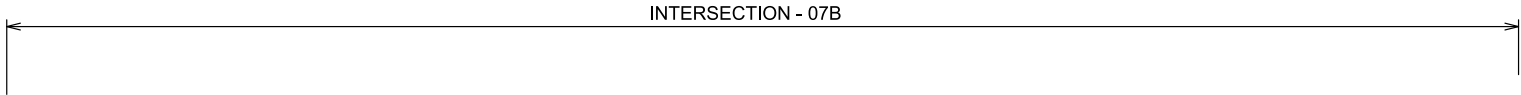
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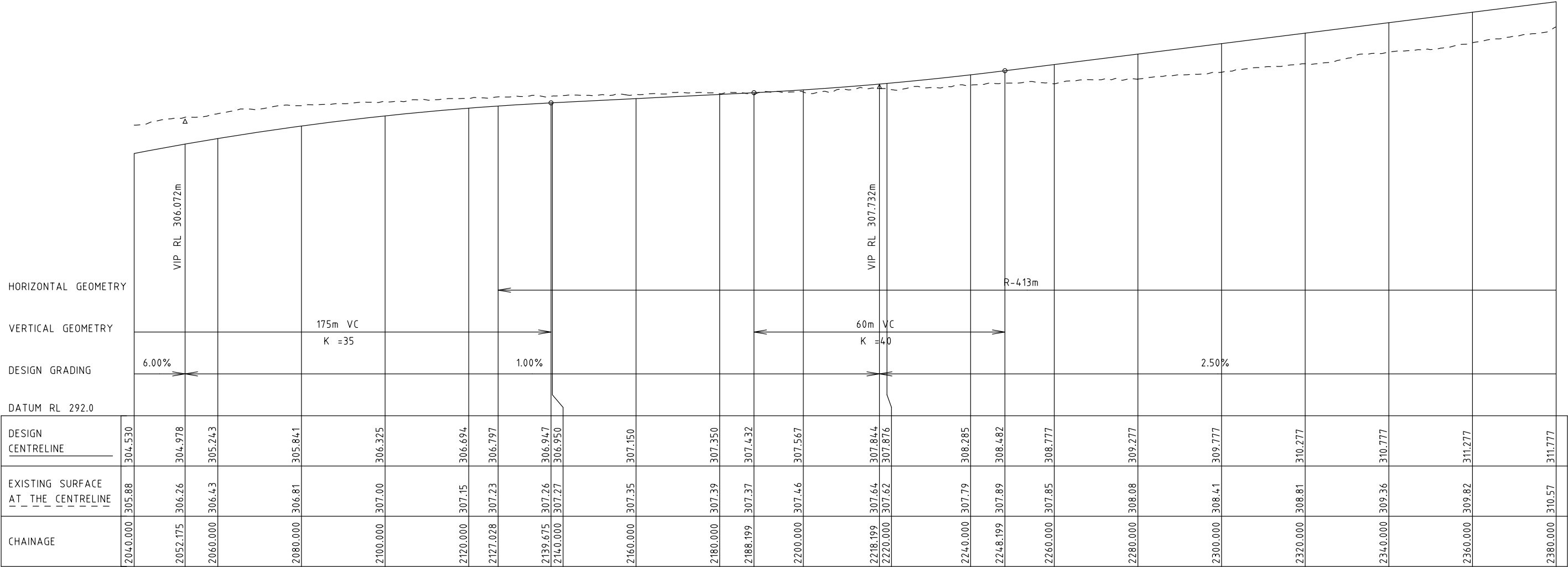
Drawn	I.MINIC
Designed	S.BECKHAM
Checked	C.MENDOZA
Authorised	M.O.KHAN

Client	VICTORIAN PLANNING AUTHORITY
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
Title	RD03B - CH 2380 - CH 2720 LONGITUDINAL SECTION

Status			
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Date	13.09.23	Scale	Size
		H 1:1000; V 1:100	A3
Drawing Number		Sheet No.	Revision
V181662-CI-DG-3021			9

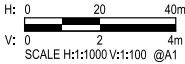


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MC03B - LONGITUDINAL SECTION
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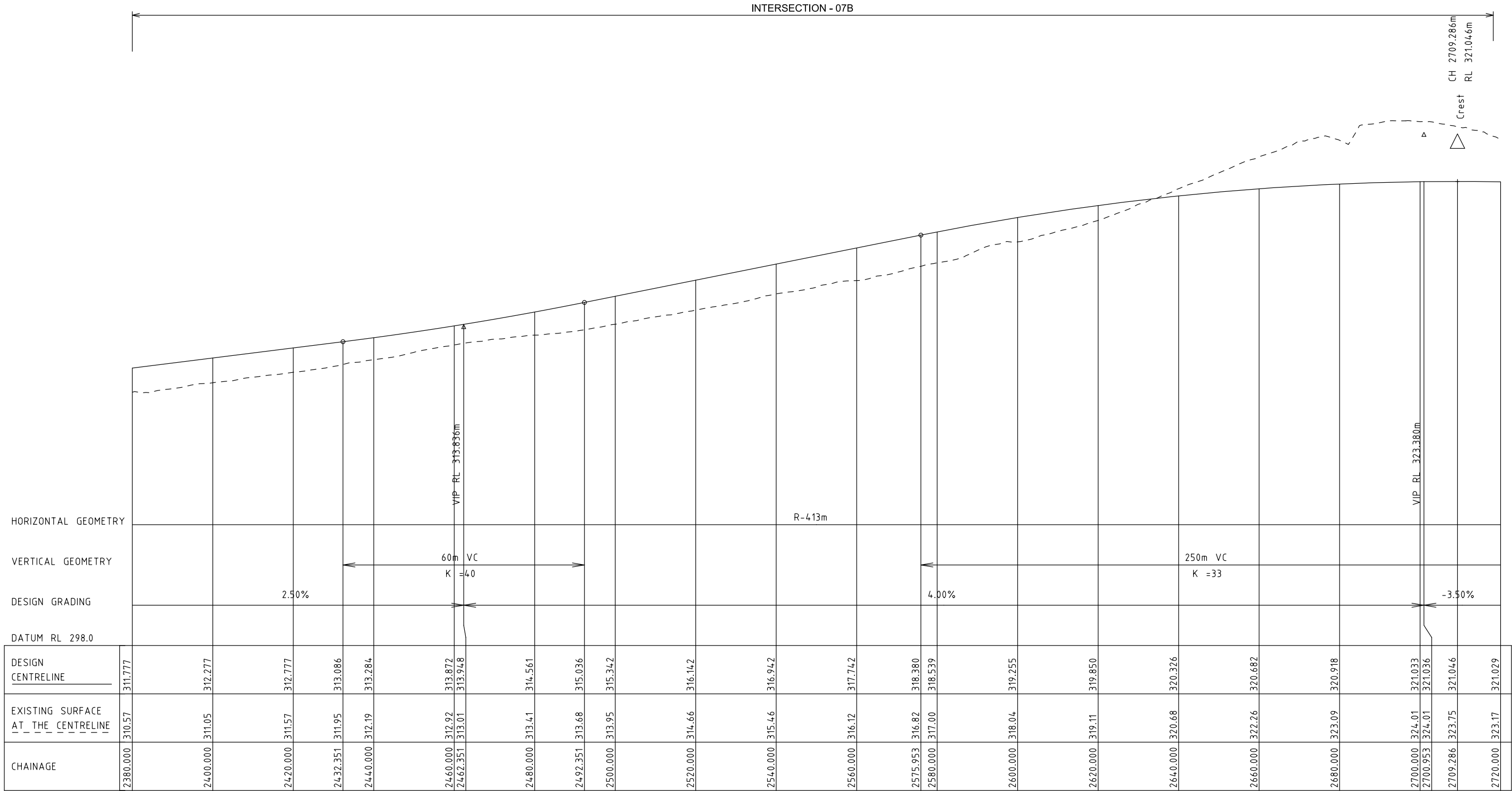


Drawn	I.MINIC
Designed	S.BECKHAM
Checked	C.MENDOZA
Authorised	M.O.KHAN

Client	VICTORIAN PLANNING AUTHORITY
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
Title	RD03B - CH 2720 - CH 3060 LONGITUDINAL SECTION

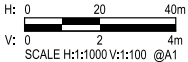
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8	17.08.23	FINAL CONCEPT DESIGN	AP	FA
7	16.02.23	ALIGNMENT 3B REVISION	SB	FA
6	15.11.22	ALIGNMENT 3B REVISION	SB	FA
5	22.04.22	FINAL CONCEPT DESIGN	SB	SP
4	07.03.22	ISSUED FOR INFORMATION	SE	MOK
3	31.10.21	NEW ALIGNMENT 3B & ADDRESS S/HOLDER COMMENTS	SE	PC
2	23.07.19	ADDRESSING STAKEHOLDER COMMENTS	SB	FH
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Rev	Date	Description	Drawn	Appr.

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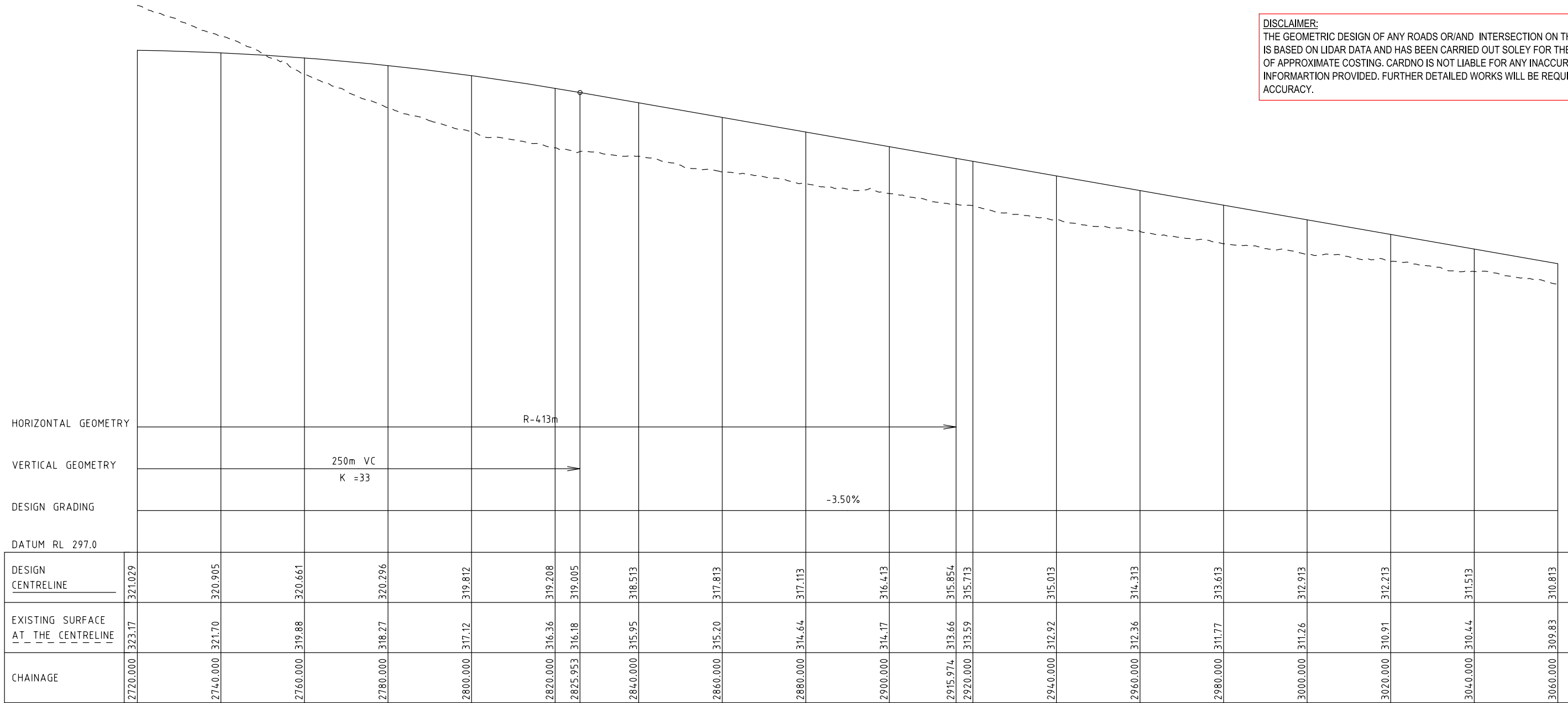
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Designed	S.BECKHAM
Checked	C.MENDOZA
Authorised	M.O.KHAN

Client	VICTORIAN PLANNING AUTHORITY
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
Title	RD03B - CH 3060 - CH 3306.149 LONGITUDINAL SECTION

Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
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7	16.02.23	ALIGNMENT 3B REVISION	SB	FA
6	15.11.22	ALIGNMENT 3B REVISION	SB	FA
5	22.04.22	FINAL CONCEPT DESIGN	SB	SP
4	07.03.22	ISSUED FOR INFORMATION	SE	MOK
3	31.10.21	NEW ALIGNMENT 3B & ADDRESS S/HOLDER COMMENTS	SE	PC
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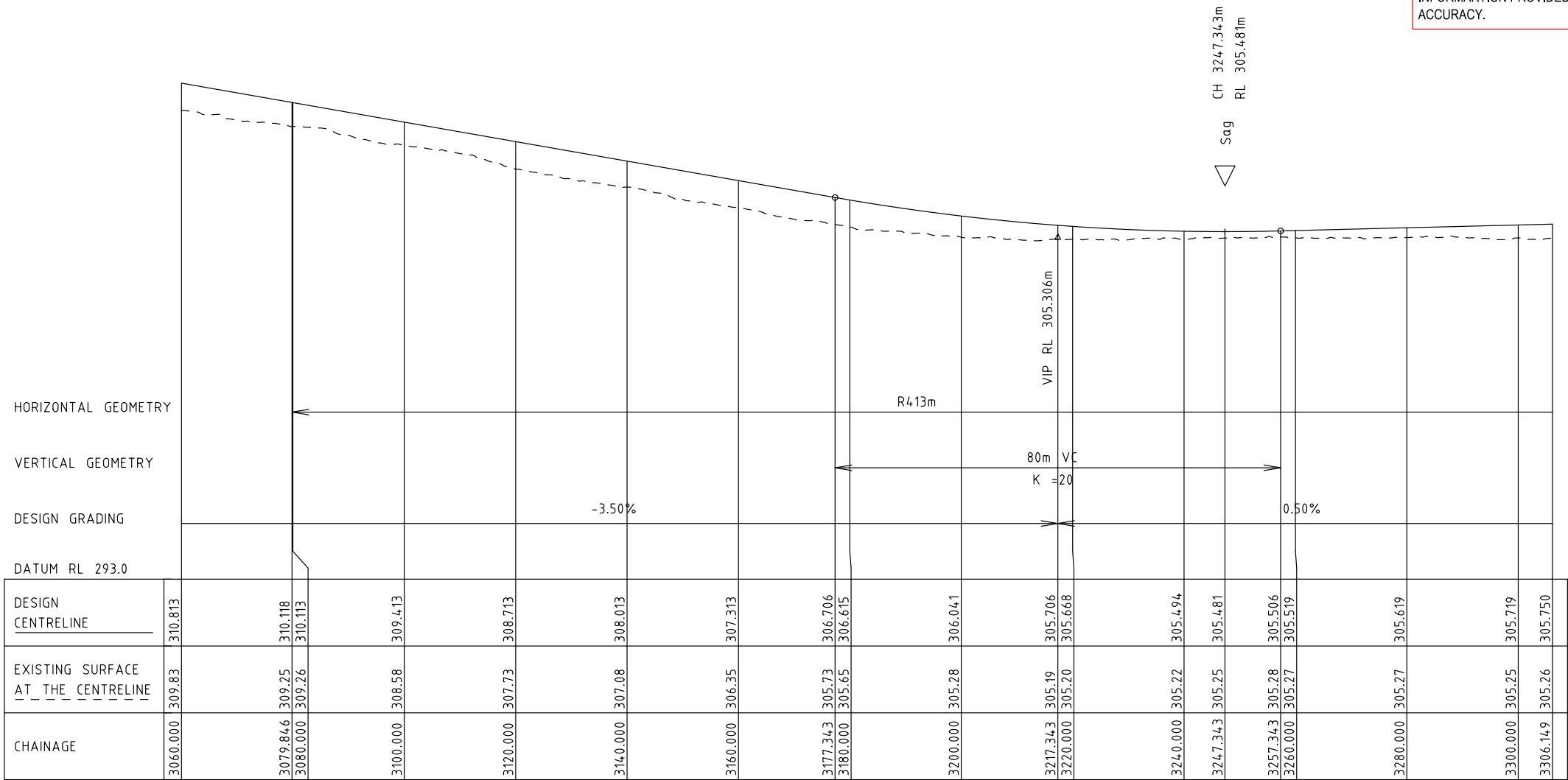
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Checked	C.MENDOZA
Authorised	M.O.KHAN

Client	VICTORIAN PLANNING AUTHORITY
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
Title	RD03B - CH 3520 - CH 3860 LONGITUDINAL SECTION

Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
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Drawing Number	V181662-CI-DG-3024	Sheet No.	Revision
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MC03B - LONGITUDINAL SECTION
Scale H: 1:1000
V: 1:200

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7	16.02.23	ALIGNMENT 3B REVISION	SB	FA
6	15.11.22	ALIGNMENT 3B REVISION	SB	FA
5	22.04.22	FINAL CONCEPT DESIGN	SB	SP
4	07.03.22	ISSUED FOR INFORMATION	SE	MOK
3	31.10.21	NEW ALIGNMENT 3B & ADDRESS S/HOLDER COMMENTS	SE	PC
2	23.07.19	ADDRESSING STAKEHOLDER COMMENTS	SB	FH
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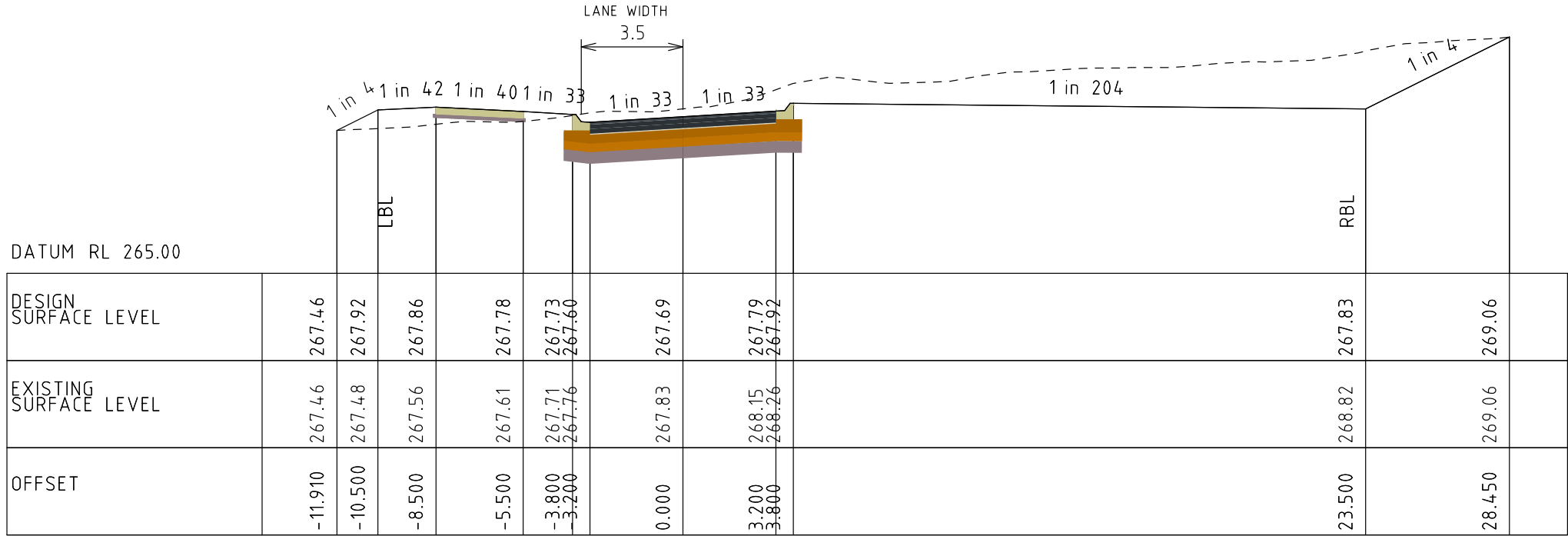
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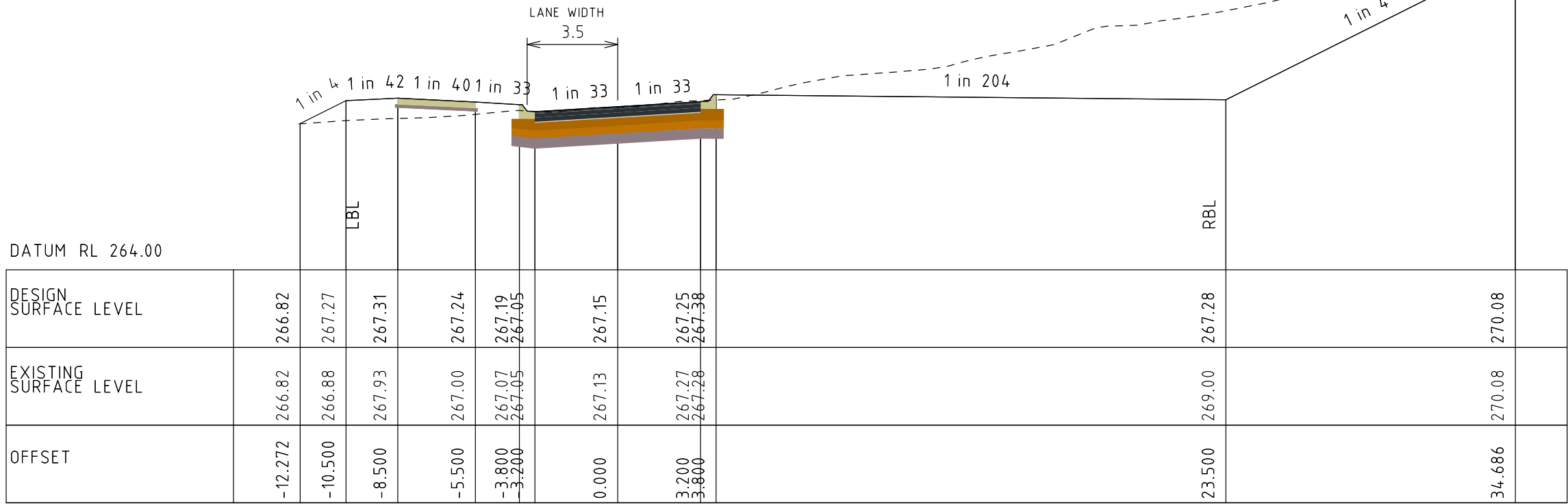
Drawn	S.ELIAS
Designed	S.BECKHAM
Checked	C.MENDOZA
Authorised	M.O.KHAN

Client	VICTORIAN PLANNING AUTHORITY
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
Title	RD03B - CH 3860 - CH 4200 LONGITUDINAL SECTION

Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES
Date	13.09.23
Scale	H 1:1000; V 1:100
Size	A3
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6	22.04.22	FINAL CONCEPT DESIGN	SB	SP
5	07.03.22	ISSUED FOR INFORMATION	SE	MOK
4	31.10.21	ADDRESSING STAKEHOLDER COMMENTS	SE	PC
3	27.07.19	SHEET NUMBERS UPDATED	VA	FH
2	23.07.19	ADDRESSING STAKEHOLDER COMMENTS	SB	FH
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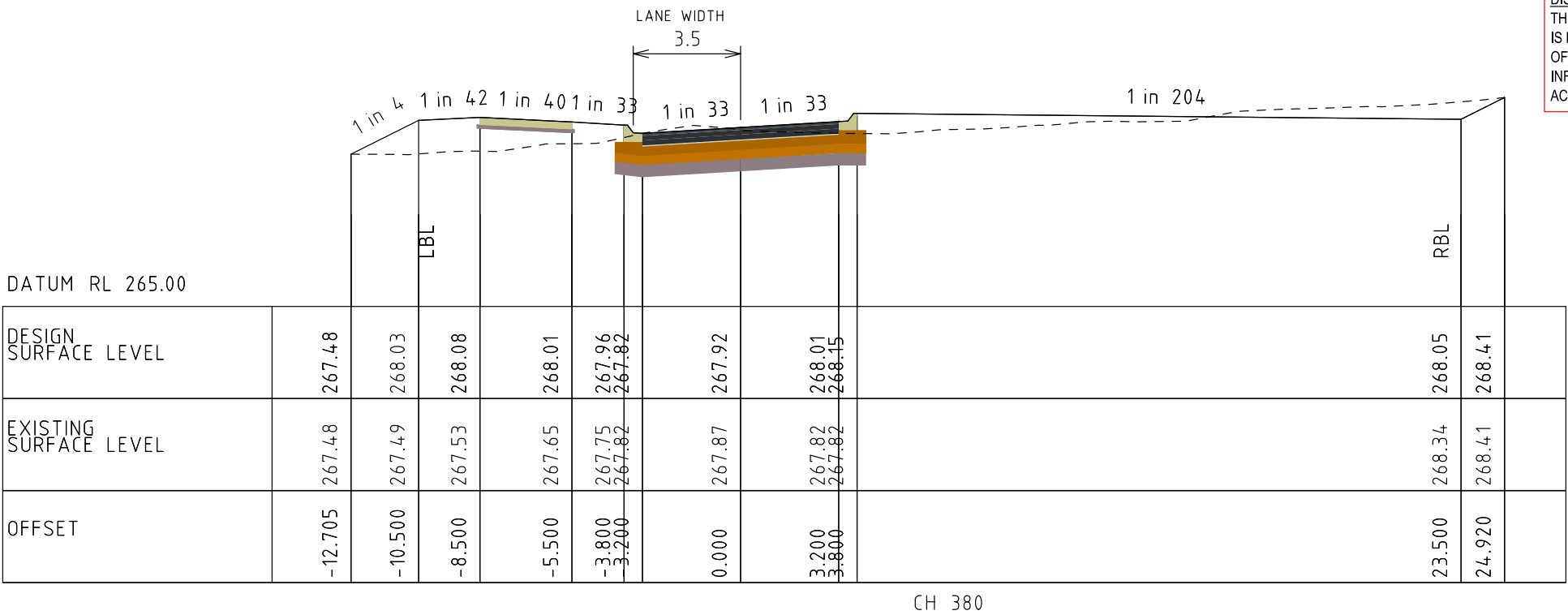
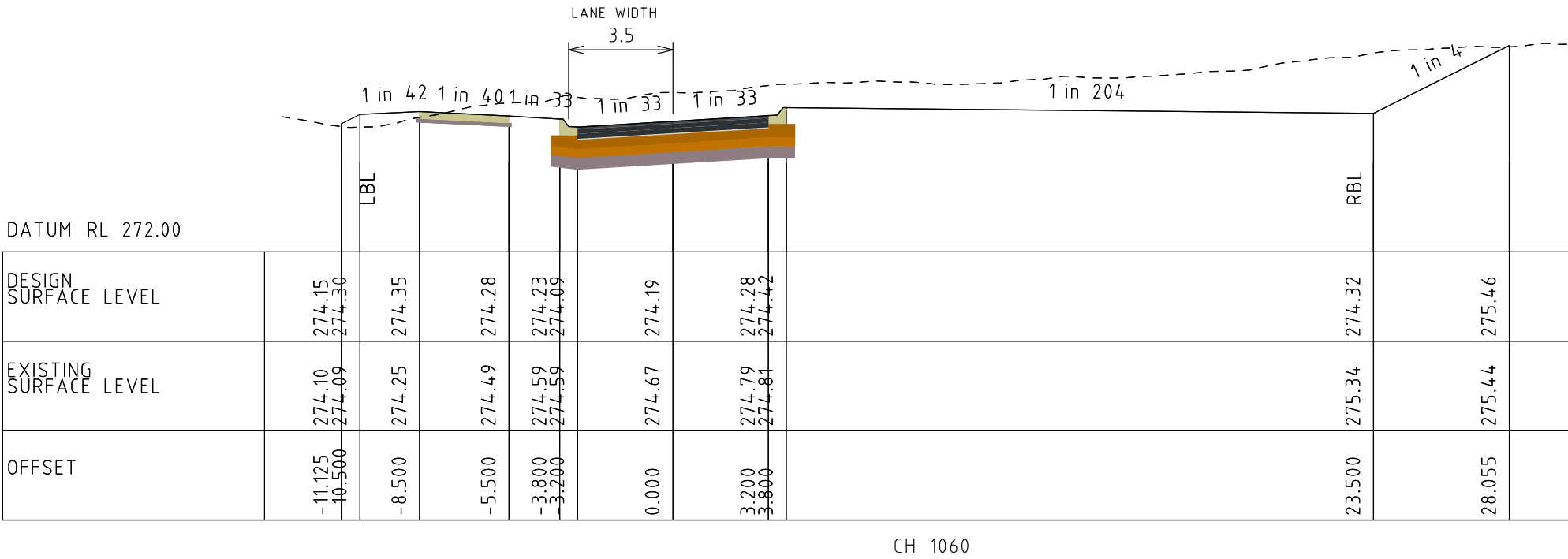
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Checked	C.MENDOZA
Authorised	M.O.KHAN

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Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
Title	RD03 - CH 280 & CH 350 CROSS SECTIONS

Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES
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Sheet No.	8



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6	22.04.22	FINAL CONCEPT DESIGN	SB	SP
5	07.03.22	ISSUED FOR INFORMATION	SE	MOK
4	31.10.21	ADDRESSING STAKEHOLDER COMMENTS	SE	PC
3	27.07.19	SHEET NUMBERS UPDATED	VA	FH
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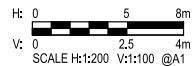
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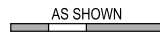
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Designed	S.BECKHAM	Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS		
Checked	C.MENDOZA	Title	RD03 - CH 380 & CH 1060 CROSS SECTIONS		
Authorised	M.O.KHAN	Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
		Date	13.09.23	Scale	H 1:200; V 1:100
		Drawing Number	V181662-CI-DG-4002	Sheet No.	A3
		Revision			8



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7	16.02.23	ALIGNMENT 3B REVISION	SB	FA
6	22.04.22	FINAL CONCEPT DESIGN	SB	SP
5	07.03.22	ISSUED FOR INFORMATION	SE	MOK
4	31.10.21	ADDRESSING STAKEHOLDER COMMENTS	SE	PC
3	27.07.19	SHEET NUMBERS UPDATED	VA	FH
2	23.07.19	ADDRESSING STAKEHOLDER COMMENTS	SB	FH
1	02.05.19	ISSUED FOR INFORMATION	NV	EA
Rev	Date	Description	Drawn	Appr.

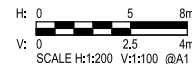
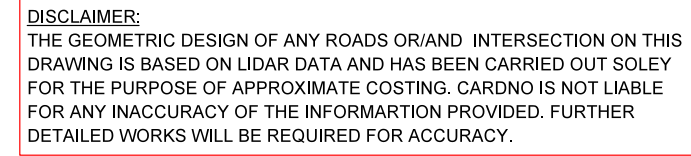
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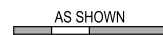


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Designed S.BECKHAM	Project BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS	Status PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Checked C.MENDOZA	Title	13.09.23	Scale H 1:200; V 1:100	Size A3
Authorised M.O.KHAN	RD03 - CH 1400 CROSS SECTIONS	Drawing Number V181662-CI-DG-4003	Sheet No.	Revision 8



4	13.09.2023	FINAL CONCEPT DESIGN	IM	FA
3	16.02.23	ALIGNMENT 3B REVISION	SB	FA
2	22.04.22	FINAL CONCEPT DESIGN	SB	SP
1	07.03.22	NEW ALIGNMENT RD03A ADDED	SE	MOK
Rev	Date	Description	Drawn	Appr.

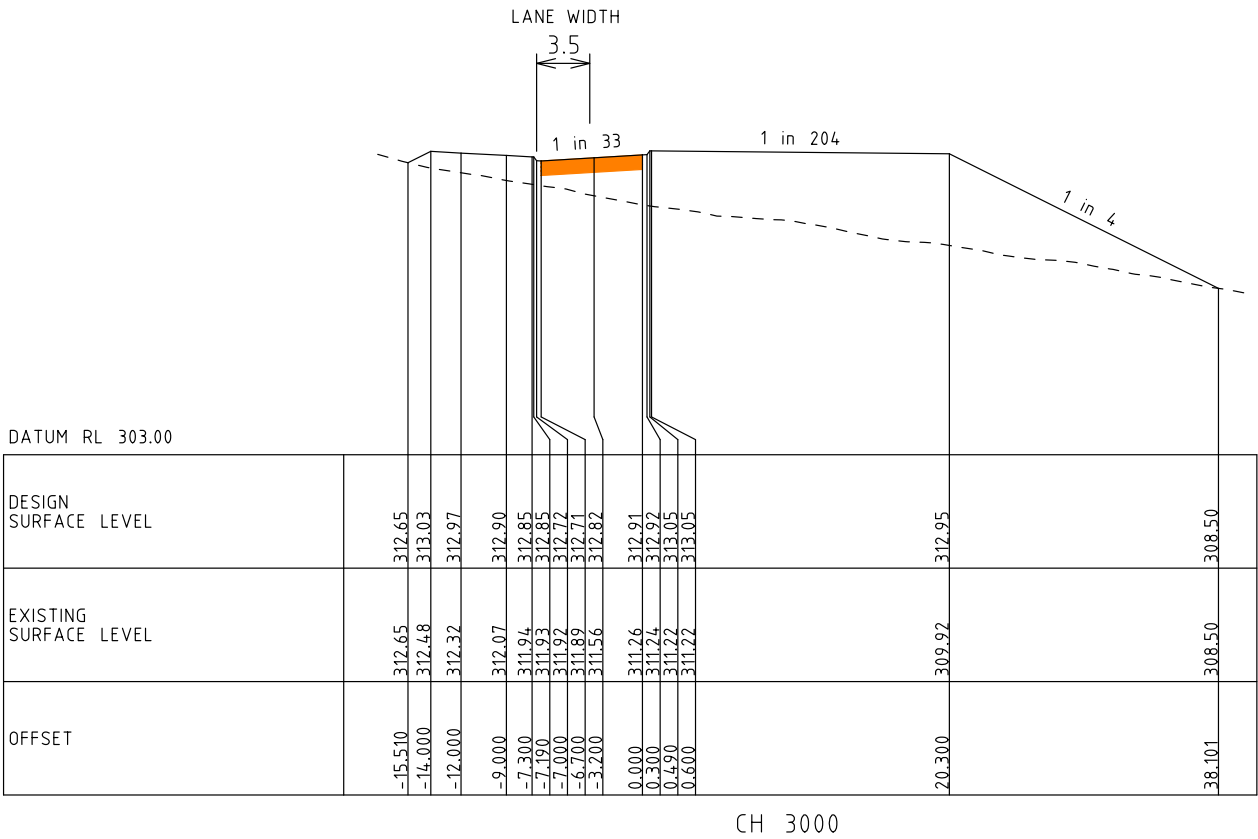
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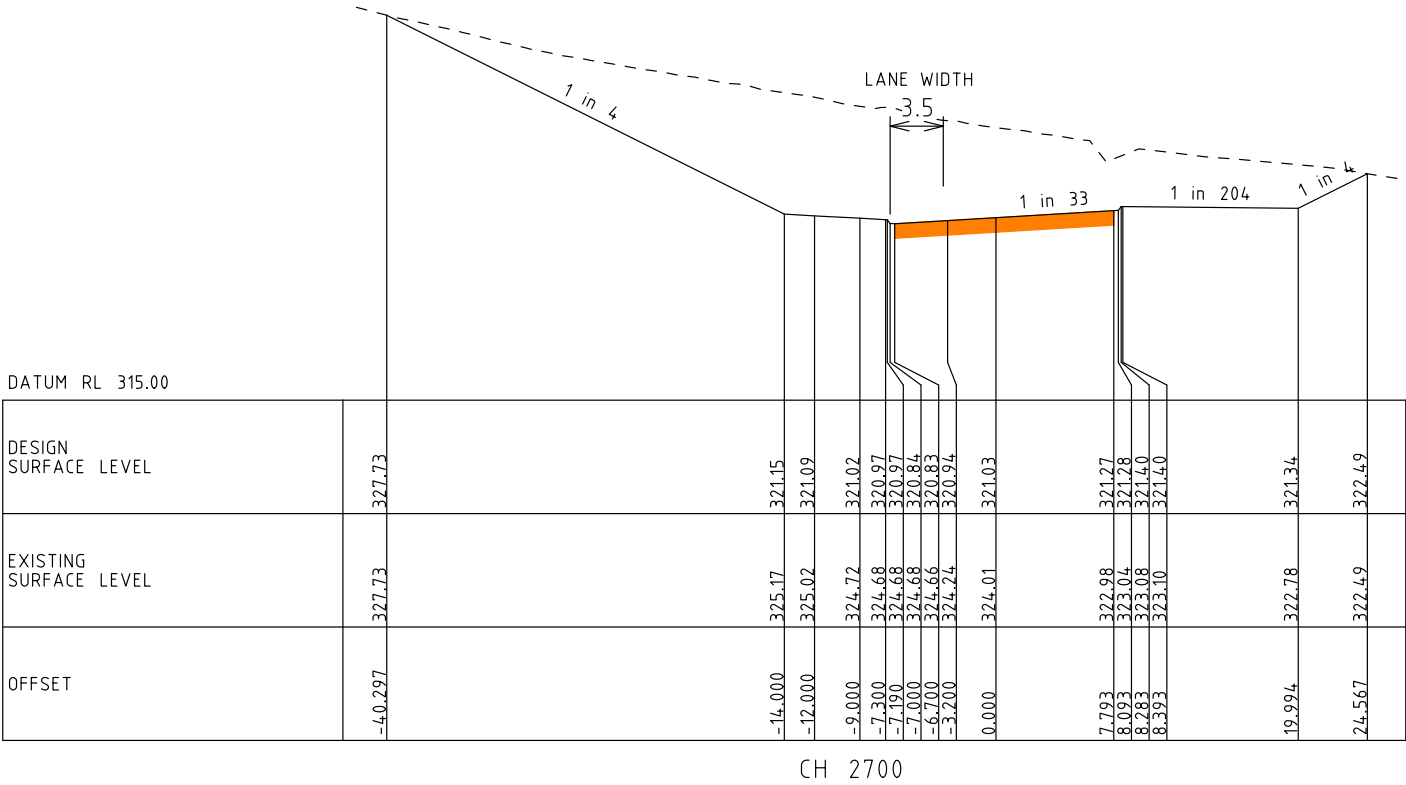
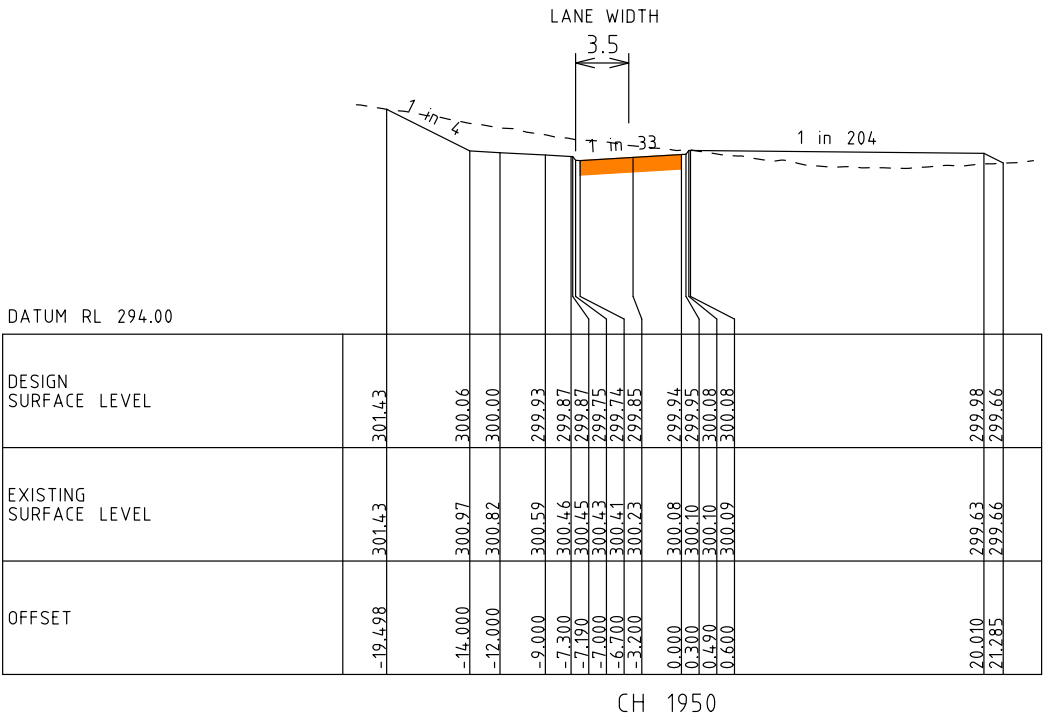
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7	15.11.22	ALIGNMENT 3B REVISION	SB	FA
6	22.04.22	FINAL CONCEPT DESIGN	SB	SP
5	07.03.22	ISSUED FOR INFORMATION	SE	MOK
4	31.10.21	NEW ALIGNMENT 3B & ADDRESS S/HOLDER COMMENTS	SE	PC
3	27.07.19	SHEET NUMBERS UPDATED	VA	FH
2	23.07.19	ADDRESSING STAKEHOLDER COMMENTS	SB	FH
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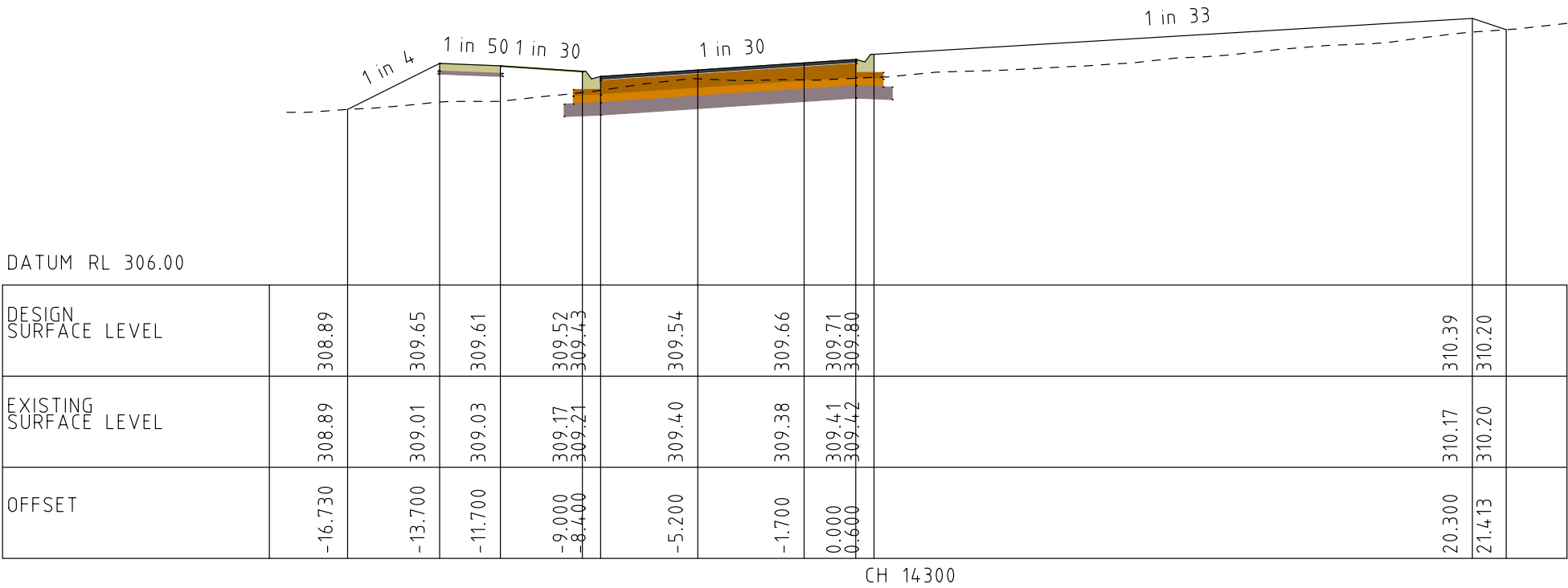
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Checked	C.MENDOZA
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Client	VICTORIAN PLANNING AUTHORITY
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
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Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES
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8	13.09.2023	FINAL CONCEPT DESIGN	IM	FA
7	16.02.23	ALIGNMENT 3B REVISION	SB	FA
6	22.04.22	FINAL CONCEPT DESIGN	SB	SP
5	07.03.22	ISSUED FOR INFORMATION	SE	MOK
4	31.10.21	SHEET No. ADJUSTED & ADDRESS S/HOLDER COMMENTS	SE	PC
3	27.07.19	SHEET NUMBERS UPDATED	VA	FH
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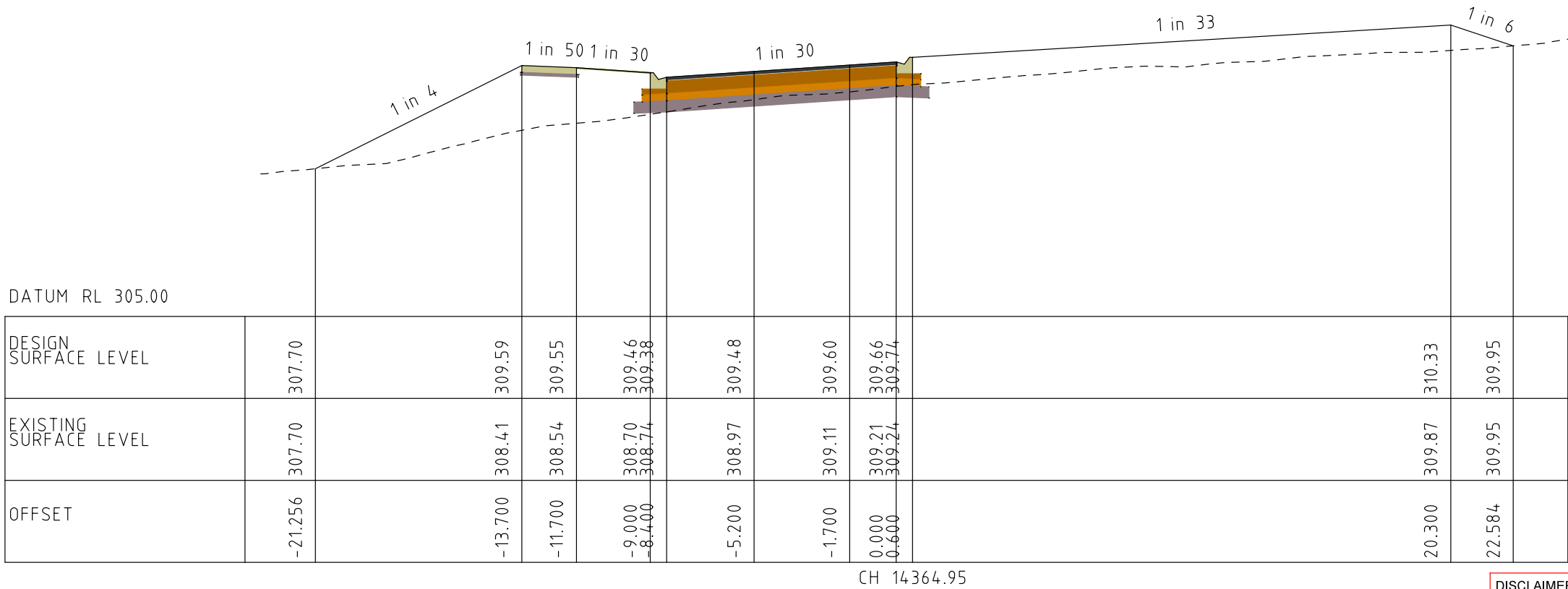
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Checked	C.MENDOZA
Authorised	M.O.KHAN

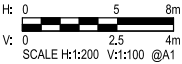
Client	VICTORIAN PLANNING AUTHORITY
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
Title	RD04 - CH 14300 CROSS SECTION

Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES
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Scale	H 1:200; V 1:100
Size	A3
Drawing Number	V181662-CI-DG-4031
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7	16.02.23	ALIGNMENT 3B REVISION	SB	FA
6	22.04.22	FINAL CONCEPT DESIGN	SB	SP
5	07.03.22	ISSUED FOR INFORMATION	SE	MOK
4	31.10.21	SHEET No. ADJUSTED & ADDRESS S/HOLDER COMMENTS	SE	PC
3	27.07.19	SHEET NUMBERS UPDATED	VA	FH
2	23.07.19	ADDRESSING STAKEHOLDER COMMENTS	SB	FH
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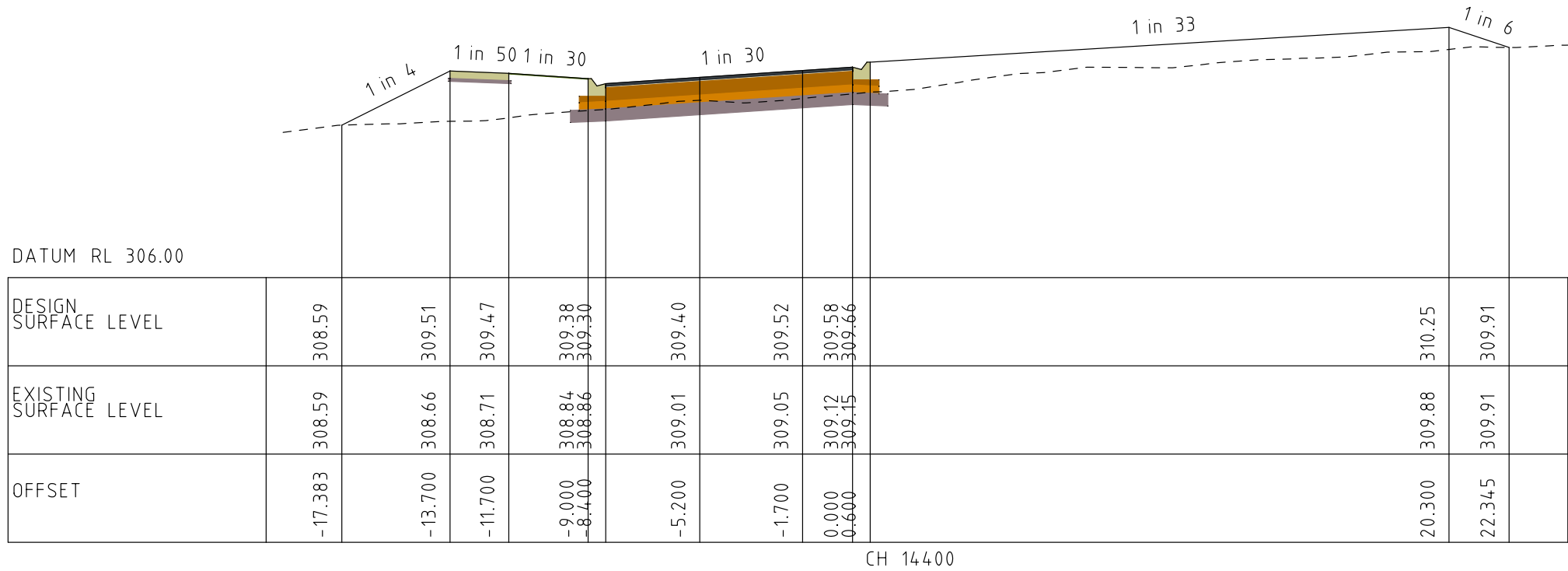
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Checked	C.MENDOZA
Authorised	M.O.KHAN

Drawn	S.ELIAS	Client	VICTORIAN PLANNING AUTHORITY					
Designed	S.BECKHAM	Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS		Status PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Checked	C.MENDOZA	Title	Date	13.09.23	Scale	H 1:200; V 1:100	Size	A3
Authorised	M.O.KHAN		Drawing Number	V181662-CI-DG-4032			Sheet No.	Revision
		RD04 - CH 14364.95 CROSS SECTION						



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8	13.09.2023	FINAL CONCEPT DESIGN	IM	FA
7	16.02.23	ALIGNMENT 3B REVISION	SB	FA
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5	07.03.22	ISSUED FOR INFORMATION	SE	MOK
4	31.10.21	SHEET No. ADJUSTED & ADDRESS S/HOLDER COMMENTS	SE	PC
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Checked	C.MENDOZA
Authorised	M.O.KHAN

Client	VICTORIAN PLANNING AUTHORITY
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
Title	RD04 - CH 14400 CROSS SECTION

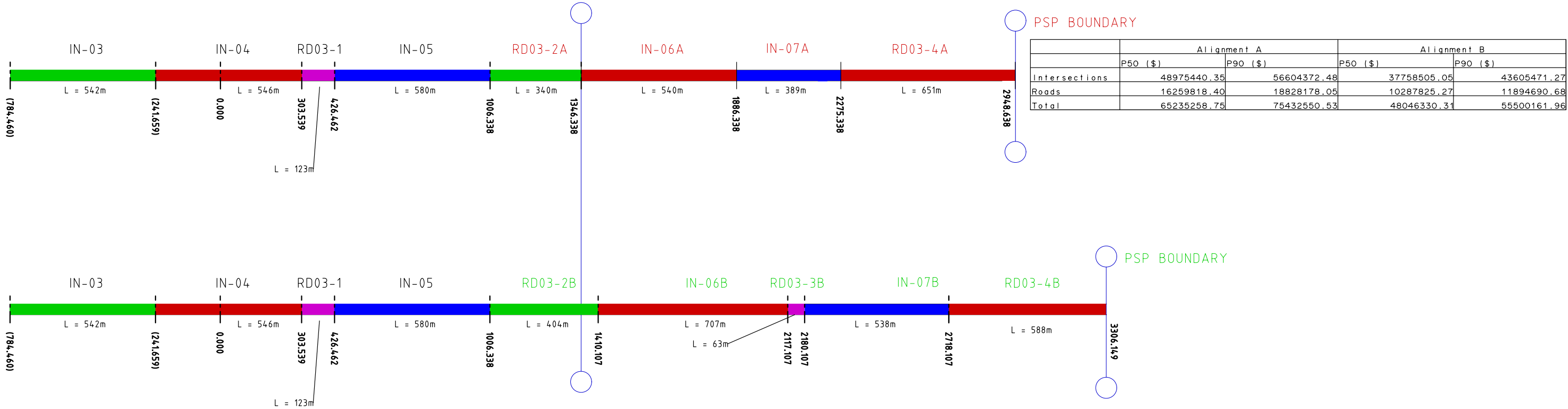
Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES
Date	13.09.23
Scale	H 1:200; V 1:100
Drawing Number	V181662-CI-DG-4033

Size	A3
Sheet No.	
Revision	8

BY: \$USERS\$

DATE PLOTTED: 9/14/2023 4:00:53 PM

Alignment A																
	IN-03		IN-04		RD03-1		IN-05		RD03-2A		IN-06A		IN-07A		RD03-4A	
Group	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)
Siteworks/Earthworks	870946.32	1083994.45	695321.47	865459.08	78042.18	100948.72	551655.78	720790.45	502084.48	622902.02	2635650.86	3208010.17	3748275.83	4514773.18	4665890.14	5611852.05
Road Pavement	2489809.52	2760422.68	2031884.16	2263884.06	180075.69	201208.32	2249539.08	2502758.10	497770.20	556185.60	3504839.20	3906459.20	3379994.40	3768777.60	953083.53	1064931.84
Concrete Works	435286.63	499992.69	324549.89	374427.43	42378.54	49649.86	385639.46	446938.09	81532.00	92697.60	181306.16	205159.28	310181.59	344273.27	156109.80	177488.64
Drainage Works	835953.70	957971.77	711616.95	813108.75	76188.89	87666.53	783180.70	891355.53	236523.05	269834.69	611493.67	692523.97	577353.64	653788.44	451009.09	514626.01
Traffic Signals	444744.32	521979.80	444744.32	521979.80	0.00	0.00	444744.32	521979.80	0.00	0.00	444744.32	521979.80	333558.24	391484.85	0.00	0.00
Landscape	151517.49	178817.20	122697.58	144816.32	32663.09	38453.84	155945.50	183875.99	99191.26	116690.04	270239.82	317524.88	146946.56	173085.44	251086.22	295064.44
Street Lighting	280831.88	320354.52	264694.28	302199.72	38772.06	41410.41	272479.88	310958.52	107174.80	114467.80	261727.88	298862.52	208775.91	238186.89	205208.22	219172.17
Misc.	123710.93	154879.58	114649.51	143109.52	13363.48	14507.66	119253.63	149156.07	41065.72	44319.64	237227.27	292666.59	130059.99	164257.55	102838.36	109545.39
Rock Allowance	158784.11	182602.51	126561.17	145545.97	8663.72	9963.32	26345.80	30297.80	88035.50	101241.26	598718.44	688529.16	942186.61	1083519.25	2403000.00	2643300.00
Other	188226.51	216482.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	199625.83	231555.73	199625.83	231555.73	199625.83	231555.73
Delivery	2389028.78	2747668.77	1995146.73	2299493.90	193935.91	224321.07	2057873.45	2375220.52	682018.02	791314.70	3690049.05	4274849.43	4115495.41	4770027.16	3872488.62	4482858.70
Total	8368840.19	9625166.96	6831866.06	7874024.55	664083.56	768129.73	7046657.60	8133330.87	2335395.03	2709653.35	12635622.50	14638120.73	14092454.01	16333729.36	13260339.81	15350394.97



Alignment A				Alignment B	
	P50 (\$)	P90 (\$)		P50 (\$)	P90 (\$)
Intersections	48975440.35	56604372.48		37758505.05	43605471.27
Roads	16259818.40	18828178.05		10287825.27	11894690.68
Total	65235258.75	75432550.53		48046330.31	55500161.96

Alignment B																		
	IN-03		IN-04		RD03-1		IN-05		RD03-2B		IN-06B		RD03-3B		IN-07B		RD03-4B	
Group	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)
Siteworks/Earthworks	870946.32	1083994.45	695321.47	865459.08	78042.18	100948.72	551655.78	720790.45	224378.82	285777.13	1402415.57	1738106.16	142163.26	166593.75	906507.60	1115352.87	1790298.72	2188004.51
Road Pavement	2489809.52	2760422.68	2031884.16	2263884.06	180075.69	201208.32	2249539.08	2502758.10	393937.78	440210.84	2395673.70	2670842.02	16434.81	19823.58	1790609.28	1997450.04	1237105.35	1382284.80
Concrete Works	435286.63	499992.69	324549.89	374427.43	42378.54	49649.86	385639.46	446938.09	75895.50	88275.90	271120.70	305210.18	15107.40	17176.32	369522.23	412881.92	202631.00	230380.80
Drainage Works	835953.70	957971.77	711616.95	813108.75	76188.89	87666.53	783180.70	891355.53	167698.90	192468.10	694485.98	794277.62	45000.86	51284.90	520227.12	594061.89	586448.42	669122.84
Traffic Signals	444744.32	521979.80	444744.32	521979.80	0	0	444744.32	521979.80	0.00	0.00	444744.32	521979.80	0.00	0.00	333558.24	391484.85	0.00	0.00
Landscape	151517.49	178817.20	122697.58	144816.32	32663.09	38453.84	155945.50	183875.99	73580.83	86621.26	225694.78	265410.10	18119.08	21328.02	123649.90	145647.08	235711.97	277361.42
Street Lighting	280831.88	320354.52	264694.28	302199.72	38772.06	41410.41	272479.88	310958.52	89837.70	95950.95	264319.88	301778.52	19858.86	21210.21	198983.91	227170.89	266360.90	284486.15
Misc.	123710.93	154879.58	114649.51	143109.52	13363.48	14507.66	119253.63	149156.07	30016.52	32541.41	237166.03	297371.79	7293.08	7885.59	160424.39	204627.10	171921.94	201609.91
Rock Allowance	158784.11	182602.51	126561.17	145545.97	8663.72	9963.32	26345.80	30297.80	10862.58	12492.02	257276.87	295869.67	9778.35	11245.15	185332.57	213133.37	783200.00	861520.00
Other	188226.51	216482.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	199625.83	231555.73	0.00	0.00	0.00	0.00	199625.83	231555.73
Delivery	2389028.78	2747668.77	1995146.73	2299493.90	193935.91	224321.07	2057873.45	2375220.52	439811.06	509164.26	2636916.01	3061740.66	112924.24	130575.87	1892886.29	2186996.63	2257737.95	2609609.53
Total	8368840.19	9625166.96	6831866.06	7874024.55	664083.56	768129.73	7046657.60	8133330.87	1506019.69	1743501.87	9029439.67	10484142.25	386679.94	447123.39	6481701.53	7488806.64	7731042.08	8935935.69

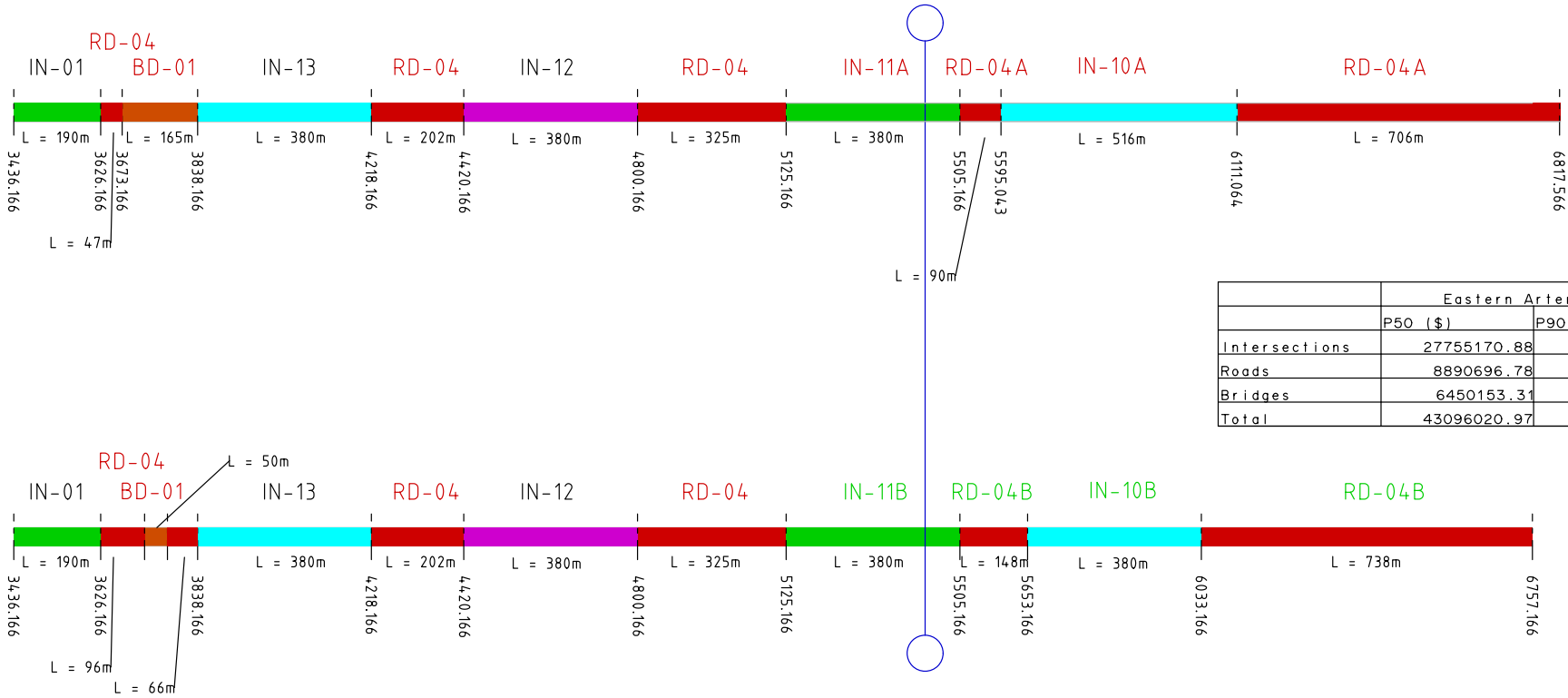
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Rev	Date	Description	Drawn	Appr.
7	13.09.2023	FINAL CONCEPT DESIGN	FA	SB
6	28.03.2023	REMEDIED AS PER COMMENT	SB	FA
5	01.06.2022	REMEDIED AS PER COMMENT	SB	SP
4	04.05.2022	REMEDIED IN-03 ALIGNMENT B	SB	SP
3	22.04.2022	ISSUED FOR PSP	SB	SP
2	08.04.2022	UPDATED AS PER COMMENT	SB	SP
1	15.03.2022	ISSUED FOR INFORMATION	SB	SP

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Drawn	S. BECKHAM	Client	VICTORIAN PLANNING AUTHORITY		
Designed	S. BECKHAM	Project	VICTORIAN PLANNING AUTHORITY BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGN AND COSTINGS		
Checked	S. PAUL	Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Authorised	S. PAUL	Date	15.03.2022	Scale	Size A3
		Drawing Number	V181662-CI-SK-9000	Sheet No.	Revision
					7

Eastern Arterial Road															
	IN-01		IN-13		IN-12		IN-11B		IN-10B		RD-04		RD-04B		
Group	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)
Siteworks/Earthworks	818805.39	1017082.28	470426.86	585150.15	470426.86	585150.15	610204.81	754325.40	470426.86	585150.15	654834.53	827971.24	842065.87	1064706.11	
Road Pavement	2567877.08	2832401.08	1363595.22	1483109.64	1363595.22	1483109.64	1363595.22	1483109.64	1363595.22	1483109.64	1025225.11	1114429.94	1318359.14	1433069.56	
Concrete Works	273960.40	308186.20	221677.29	252087.25	221677.29	252087.25	221677.29	252087.25	221677.29	252087.25	165222.20	187848.96	212462.80	241559.04	
Drainage Works	530851.60	607117.60	351970.96	405360.66	351970.96	405360.66	351970.96	405360.66	351970.96	405360.66	274327.33	311008.22	352012.66	399110.96	
Traffic Signals	444744.32	521979.80	444744.32	521979.80	444744.32	521979.80	444744.32	521979.80	444744.32	521979.80	0.00	0.00	0.00	0.00	
Landscape	94941.35	111650.20	64225.39	75531.75	64225.39	75531.75	64225.39	75531.75	64225.39	75531.75	158258.63	186410.86	203675.04	239909.42	
Street Lighting	265759.88	303398.52	242335.88	277046.52	242335.88	277046.52	242335.88	277046.52	242335.88	277046.52	217186.58	231965.63	279284.92	298289.62	
Misc.	128497.35	160514.43	109476.95	135924.59	109476.95	135924.59	109476.95	135924.59	109476.95	135924.59	73729.58	81754.83	92653.40	102705.78	
Rock Allowance	306545.14	352528.42	172830.88	198756.36	172830.88	198756.36	485613.89	558458.37	172830.88	198756.36	185920.99	213810.06	239079.83	274942.98	
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Delivery	2240692.80	2563629.15	1419529.55	1623165.53	1419529.55	1623165.53	1606210.95	1841327.40	1419529.55	1623165.53	1136315.79	1301519.90	1460082.38	1672396.05	
Total	7672675.31	8778487.68	4860813.30	5558112.25	4860813.30	5558112.25	5500055.66	6305151.38	4860813.30	5558112.25	3891020.74	4456719.64	4999676.04	5726689.52	



	Eastern Arterial Road		Eastern Arterial Road (alternate)	
	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)
Intersections	27755170.88	31757975.81	29054057.81	33228500.04
Roads	8890696.78	10183409.16	8383689.80	9602669.10
Bridges	6450153.31	7555246.66	6450153.31	7555246.66
Total	43096020.97	49496631.62	43887900.92	50386415.79

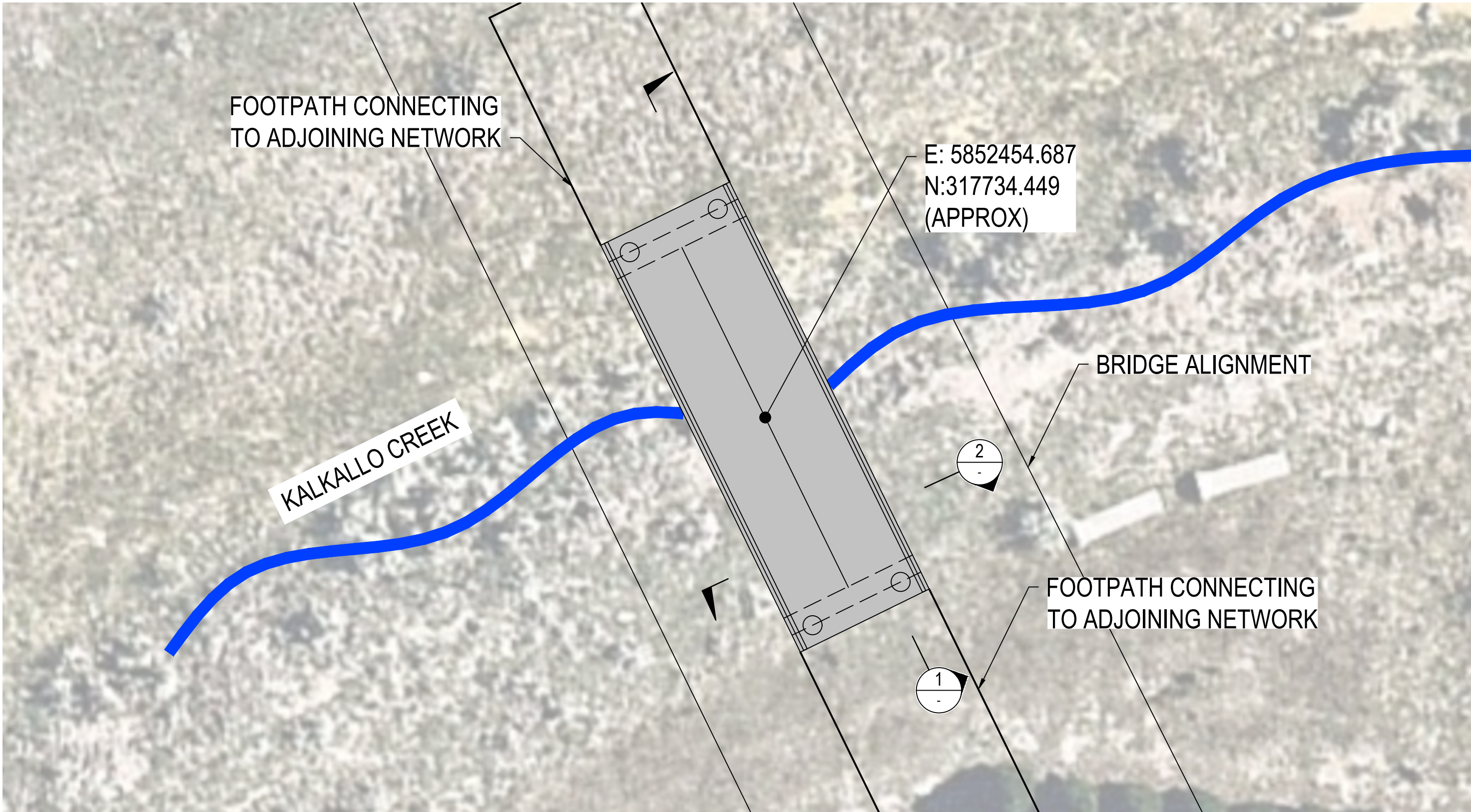
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	IN-01		IN-13		IN-12		IN-11A		IN-10A		RD-04		RD-04A		
Group	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)	P90 (\$)	P50 (\$)
Siteworks/Earthworks	818805.3924	1017082.285	470426.8636	585150.1472	470426.8636	585150.1472	594528.19	735684.16	626954.48	778455.92	654834.53	827971.24	756528.70	956553.11	
Road Pavement	2567877.08	2832401.08	1363595.22	1483109.64	1363595.22	1483109.64	1363595.22	1483109.64	1832975.41	1995259.22	1025225.11	1114429.94	1184440.04	1287498.16	
Concrete Works	273960.4	308186.2	221677.29	252087.25	221677.29	252087.25	221677.29	252087.25	302651.35	348653.80	165222.2	187848.96	190880.80	217021.44	
Drainage Works	530851.6	607117.6	351970.96	405360.66	351970.96	405360.66	351970.96	405360.66	498594.86	567748.96	274327.33	311008.22	316073.26	358370.24	
Traffic Signals	444744.32	521979.8	444744.32	521979.8	444744.32	521979.8	444744.32	521979.80	444744.32	521979.80	0	0	0.00	0.00	
Landscape	94941.35	111650.2	64225.39	75531.75	64225.39	75531.75	64225.39	75531.75	74086.58	87079.19	158258.63	186410.86	183010.68	215569.28	
Street Lighting	265759.88	303398.52	242335.88	277046.52	242335.88	277046.52	242335.88	277046.52	259807.88	296702.52	217186.58	231965.63	250915.12	267989.32	
Misc.	128497.35	160514.43	109476.95	135924.59	109476.95	135924.59	109476.95	135924.59	118922.19	148328.94	73729.58	81754.83	84008.00	93134.28	
Rock Allowance	306545.14	352528.42	172830.88	198756.36	172830.88	198756.36	467212.36	537296.52	236190.81	271620.59	185920.99	213810.06	214794.06	247014.23	
Other	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0	0.00	0.00	
Delivery	2240692.8	2563629.15	1419529.55	1623165.53	1419529.55	1623165.53	1592153.70	1824908.60	1812907.75	2069029.43	1136315.79	1301519.9	1312018.40	1502799.40	
Total	7672675.312	8778487.685	4860813.304	5558112.247	4860813.304	5558112.247	5451920.26	6248929.49	6207835.634	7084858.367	3891020.74	4456719.64	4492669.06	5145949.46	

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WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVIDED ON SITE.

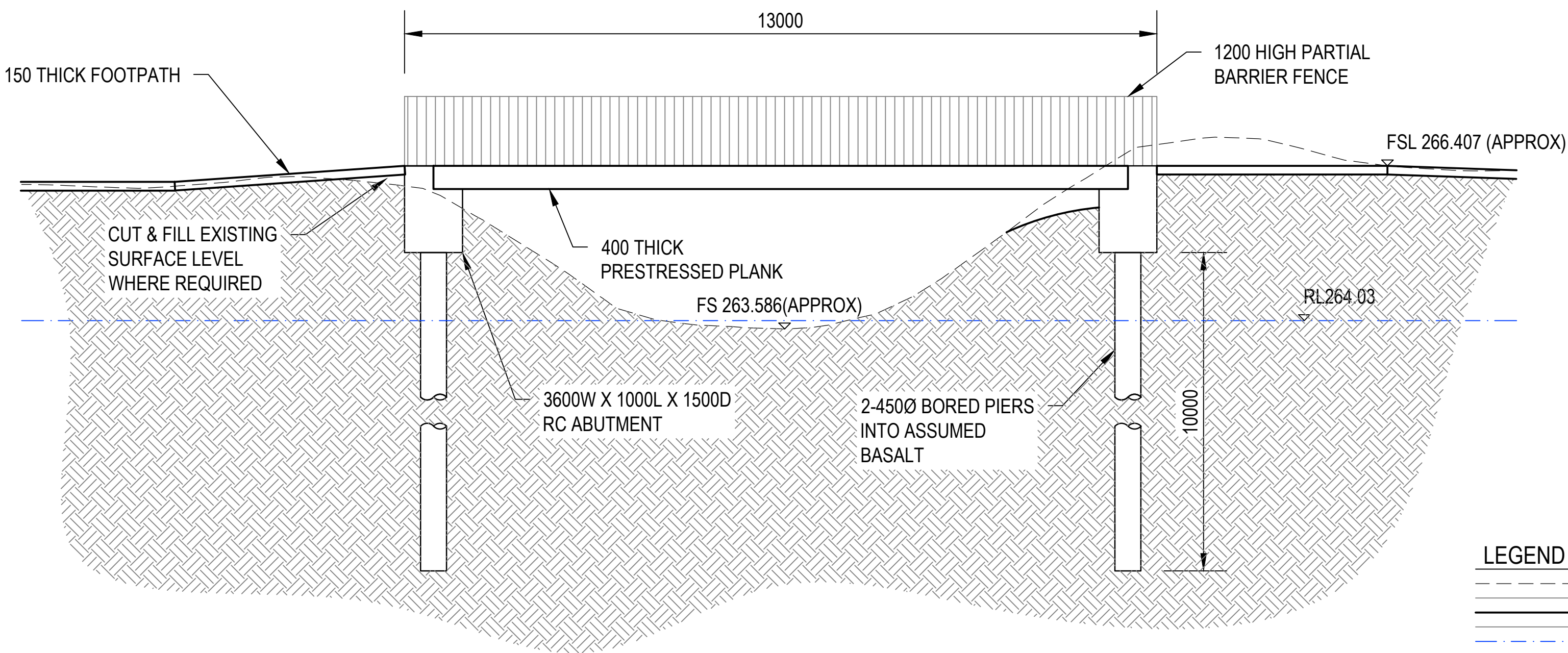


Drawn	S. BECKHAM	Client	VICTORIAN PLANNING AUTHORITY		
Designed	S. BECKHAM	Project	VICTORIAN PLANNING AUTHORITY BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGN AND COSTINGS		
Checked	S. PAUL	Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Authorised	S. PAUL	Date	13.09.2023	Scale	Size A3
		Title	RD-04 KEY STRIP PLAN		
		Drawing Number	V181662-CI-SK-9001		
		Sheet No.	Revision		
				5	



BR-10: PEDESTRIAN BRIDGE OVER KALKALLO CREEK

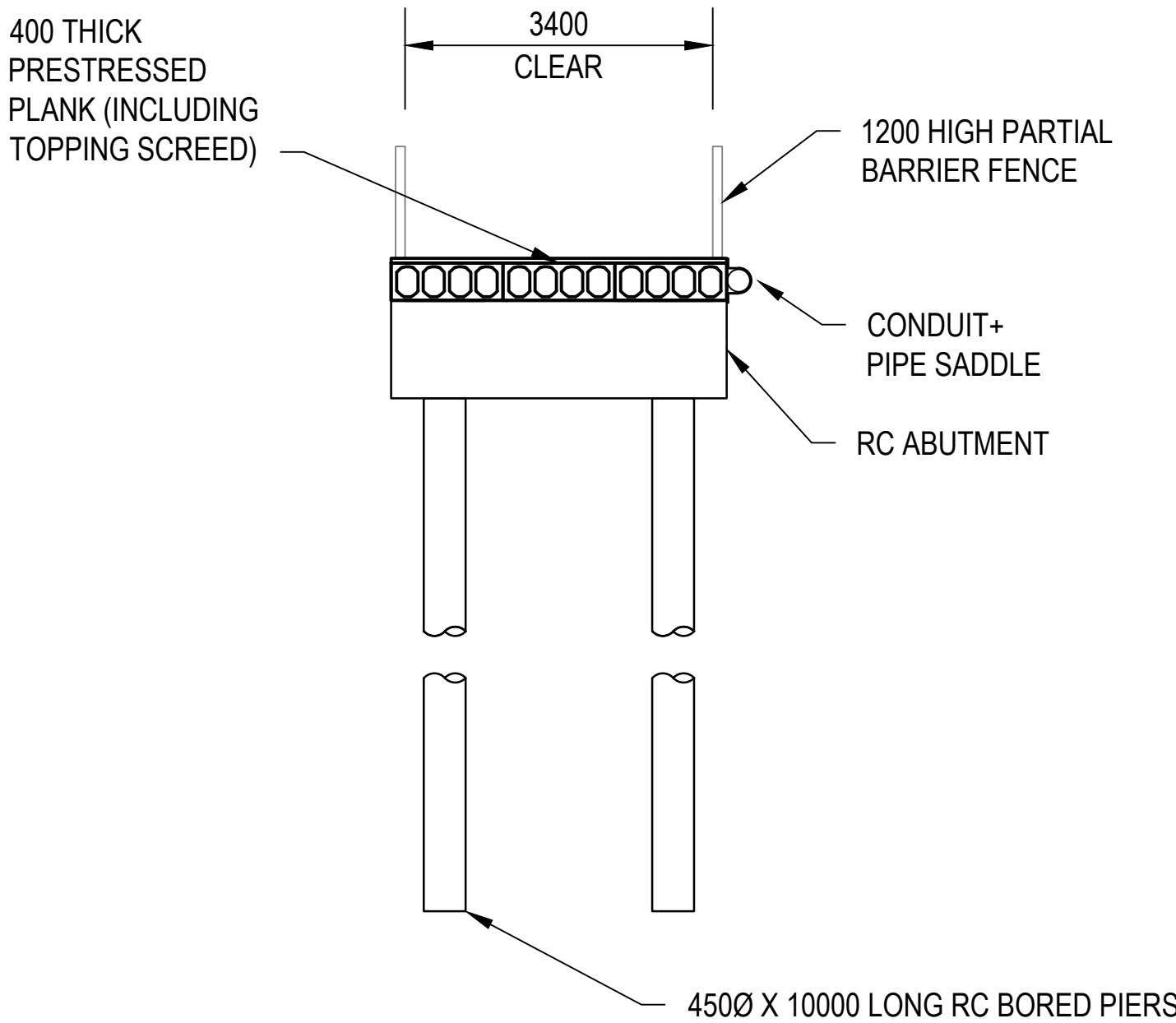
SCALE 1:100



SECTION 1
NTS

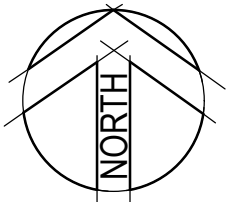
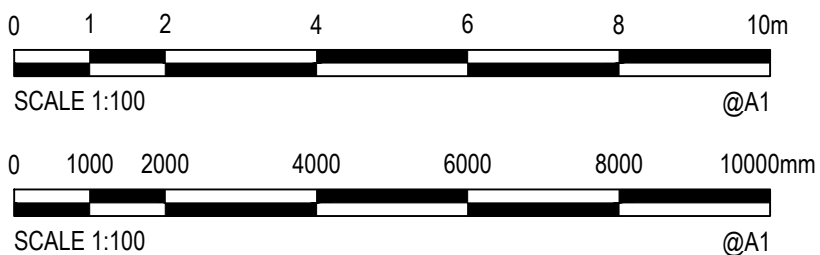
LEGEND	
	EXISTING SURFACE
	FINAL SURFACE
	1% AEP FLOOD LEVEL

LEVELS DERIVED FROM
VICTORIAN PLANNING AUTHORITY
LIDAR DATA DATED 18-02-2019



SECTION 2
NTS

Rev.	Date	Description	Des.	Verif.	Appd.
3	06/06/19	ADDRESS STAKEHOLDER COMMENTS	TMC		
2	14/05/19	ADDRESS VPA COMMENTS	TMC	JR	
1	14/03/19	ISSUED OR INFORMATION	TMC	JR	



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Drawn SB	Date 13/03/19	Client VICTORIAN PLANNING AUTHORITY
Checked SB	Date 13/03/19	Project BEVERIDGE NORT WEST
Designed TM	Date 13/03/19	TRANSPORT INFRASTRUCTURE DESIGN AND COSTINGS
Verified JR	Date 13/03/19	BEVERIDGE, VIC, 3573
Approved	Date	Title BR-10 PEDESTRIAN BRIDGE OVER KALKALLO CREEK
Status PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
MELWAYS REF 685.G2	DATUM AHD	Scale AS SHOWN
Drawing Number V181662-ST-0010	Size A1	Revision 3

Appendix B. Costings

Description:	Road - Bespoke Primary Section 2 - 404m (Excluding intersection extents)
Civil Component Number:	RD-03-2B

DRAFT ISSUE

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preparation	3225	m2	3.73	12029.25	5.03	16221.75
	Soil stabilisation - gypsum treatment	7627	m2	15.00	114405.00	20.00	152540.00
	Additional construction staging measures to reduce grubbing and excavation	1	%	10.00	1202.93	10.00	1622.18
	Earthworks	2372	m3	34.53	81905.16	41.06	97394.32
	Erosion protection for 1:4 batters	1072	m2	3.84	4116.48	4.29	4598.88
	Lime stabilised protection of embankment	536	m2	20.00	10720.00	25.00	13400.00
Road Pavement	Primary Arterial Pavement	1882	m2	171.88	323478.16	188.74	355208.68
	Secondary Arterial Pavement	0	m2	128.70	0.00	135.56	0.00
	Collector Arterial Pavement	0	m2	106.55	0.00	113.94	0.00
	Subgrade Preparation	1882	m2	14.41	27119.62	16.38	30827.16
	Pavement Rehab	0	m2	52.27	0.00	60.11	0.00
	Lime stabilisation, 0.5m past BoK	285	m2	20.00	5700.00	25.00	7125.00
	Crushed rock capping layer, 0.5m past BoK	1882	m2	20.00	37640.00	25.00	47050.00
Concrete Works	Kerb and Channel	570	m	55.54	31657.80	61.71	35174.70
	Cycle Path	570	m2	77.61	44237.70	93.16	53101.20
	SUP/ Footpath	0	m2	64.36	0.00	74.61	0.00
	Traffic Island	0	m2	78.63	0.00	85.19	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	182.24	0.00	200.59	0.00
	Drainage Pipe 375mm CR Bfilled	143	m	262.54	37411.95	286.72	40857.60
	Drainage Pipe 450mm CR Bfilled	71	m	303.41	21617.96	338.77	24137.36
	Drainage Pipe 525mm CR Bfilled	71	m	409.22	29156.93	453.98	32346.08
	Drainage - pits	12	No.	2599.43	31193.16	2843.33	34119.96
	Drainage – Sub-soil drainage	570	m	34.33	19568.10	43.98	25068.60
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
	Swale lining - invert lime stabilisation	1438	m2	20.00	28750.80	25.00	35938.50
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	111186.08	0.00	130494.95	0.00
Landscape	Tree Planting, 45L tree	58	No.	307.37	17827.46	367.83	21334.14
	Topsoil with seeding, 100mm depth	7627	m2	7.31	55753.37	8.56	65287.12
Street Lighting	Street Lighting - Road	285	m	219.22	62477.70	228.67	65170.95
	Street Lighting - Intersections	0	Item/ Per Leg	49111.97	0.00	56355.63	0.00
	Erosion protection for utilities	570	m	48.00	27360.00	54.00	30780.00
Misc	Regulatory Signage	5	Item	342.92	1646.02	385.44	1850.11
	Linemarking	1882	m2 of Pavement	3.16	5947.12	4.15	7810.30
	Landscape maintenance (intersections)	0	Item	72291.19	0.00	89300.67	0.00
	Landscape maintenance (roads)	7627	m2	2.94	22423.38	3.00	22881.00
	Tactile Pavers (Hazard only)	0	Item	296.31	0.00	324.03	0.00
Other	Rock Allowance	107	m3	101.33	10862.58	116.53	12492.02
Delivery	Council Fees	1	%	3.25	34651.78	3.25	40115.97
	VicRoads Fees	1	%	1.00	10662.09	1.00	12343.38
	Traffic Management	1	%	5.00	53310.43	5.00	61716.88
	Environmental Management	1	%	0.50	5331.04	0.50	6171.69
	Surveying and Design	1	%	5.00	53310.43	5.00	61716.88
	Supervision and Project management	1	%	9.00	95958.78	9.00	111090.38
	Site Establishment	1	%	2.50	26655.22	2.50	30858.44
	Contingency	1	%	15.00	159931.29	15.00	185150.64
Total	Excluding Delivery				1,066,209		1,234,338
	Including Delivery				1,506,020		1,743,502

Description:	Road - Bespoke Primary Section 2 - 340m (Excluding intersection extents)
Civil Component Number:	RD-03A-2

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preparation	4080	m2	3.73	15218.40	5.03	20522.40
	Soil stabilisation - gypsum treatment	10710	m2	15.00	160650.00	20.00	214200.00
	Additional construction staging measures to reduce grubbing and excavation	1	%	10.00	1521.84	10.00	2052.24
	Earthworks	8688	m3	34.53	299996.64	41.06	356729.28
	Erosion protection for 1:4 batters	2890	m2	3.84	11097.60	4.29	12398.10
	Lime stabilised protection of embankment	680	m2	20.00	13600.00	25.00	17000.00
Road Pavement	Primary Arterial Pavement	2380	m2	171.88	409074.40	188.74	449201.20
	Secondary Arterial Pavement	0	m2	128.70	0.00	135.56	0.00
	Collector Arterial Pavement	0	m2	106.55	0.00	113.94	0.00
	Subgrade Preparation	2380	m2	14.41	34295.80	16.38	38984.40
	Pavement Rehab	0	m2	52.27	0.00	60.11	0.00
	Lime stabilisation, 0.5m past BoK	340	m2	20.00	6800.00	25.00	8500.00
	Crushed rock capping layer, 0.5m past BoK	2380	m2	20.00	47600.00	25.00	59500.00
Concrete Works	Kerb and Channel	680	m	55.54	37767.20	61.71	41962.80
	Cycle Path	0	m2	77.61	0.00	93.16	0.00
	SUP/ Footpath	680	m2	64.36	43764.80	74.61	50734.80
	Traffic Island	0	m2	78.63	0.00	85.19	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	182.24	0.00	200.59	0.00
	Drainage Pipe 375mm CR Bfilled	236	m	262.54	61959.44	286.72	67665.92
	Drainage Pipe 450mm CR Bfilled	113	m	303.41	34285.33	338.77	38281.01
	Drainage Pipe 525mm CR Bfilled	113	m	409.22	46241.86	453.98	51299.74
	Drainage - pits	14	No.	2599.43	36392.02	2843.33	39806.62
	Drainage – Sub-soil drainage	680	m	34.33	23344.40	43.98	29906.40
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
	Swale lining - invert lime stabilisation	1715	m2	20.00	34300.00	25.00	42875.00
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	111186.08	0.00	130494.95	0.00
Landscape	Tree Planting, 45L tree	68	No.	307.37	20901.16	367.83	25012.44
	Topsoil with seeding, 100mm depth	10710	m2	7.31	78290.10	8.56	91677.60
Street Lighting	Street Lighting - Road	340	m	219.22	74534.80	228.67	77747.80
	Street Lighting - Intersections	0	Item/ Per Leg	49111.97	0.00	56355.63	0.00
	Erosion protection for utilities	680	m	48.00	32640.00	54.00	36720.00
Misc	Regulatory Signage	6	Item	342.92	2057.52	385.44	2312.64
	Linemarking	2380	m2 of Pavement	3.16	7520.80	4.15	9877.00
	Landscape maintenance (intersections)	0	Item	72291.19	0.00	89300.67	0.00
	Landscape maintenance (roads)	10710	m2	2.94	31487.40	3.00	32130.00
	Tactile Pavers (Hazard only)	0	Item	296.31	0.00	324.03	0.00
Other	Rock Allowance	869	m3	101.33	88035.50	116.53	101241.26
Delivery	Council Fees	1	%	3.25	53734.75	3.25	62346.01
	VicRoads Fees	1	%	1.00	16533.77	1.00	19183.39
	Traffic Management	1	%	5.00	82668.85	5.00	95916.93
	Environmental Management	1	%	0.50	8266.89	0.50	9591.69
	Surveying and Design	1	%	5.00	82668.85	5.00	95916.93
	Supervision and Project management	1	%	9.00	148803.93	9.00	172650.48
	Site Establishment	1	%	2.50	41334.43	2.50	47958.47
	Contingency	1	%	15.00	248006.55	15.00	287750.80
Total	Excluding Delivery				1,653,377		1,918,339
	Including Delivery				2,335,395		2,709,653

Description:	Road - Bespoke Primary Section 4A - 651m (Excluding intersection extents)	DRAFT ISSUE
Civil Component Number:	RD-03A-4	

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preparation	7812	m2	3.73	29138.76	5.03	39294.36
	Soil stabilisation - gypsum treatment	28798	m2	15.00	431970.00	20.00	575960.00
	Additional construction staging measures to reduce grubbing and excavation	1	%	10.00	2913.88	10.00	3929.44
	Earthworks	120150	m3	34.53	4148779.50	41.06	4933359.00
	Erosion protection for 1:4 batters	13825	m2	3.84	53088.00	4.29	59309.25
Road Pavement	Primary Arterial Pavement	4557	m2	171.88	783257.16	188.74	860088.18
	Secondary Arterial Pavement	0	m2	128.70	0.00	135.56	0.00
	Collector Arterial Pavement	0	m2	106.55	0.00	113.94	0.00
	Subgrade Preparation	4557	m2	14.41	65666.37	16.38	74643.66
	Subgrade Preloading Fill	0	m3	34.53	0.00	38.49	0.00
	Pavement Rehab	0	m2	52.27	0.00	60.11	0.00
	Lime stabilisation, 0.5m past BoK	651	m2	20.00	13020.00	25.00	16275.00
	Crushed rock capping layer, 0.5m past BoK	4557	m2	20.00	91140.00	25.00	113925.00
Concrete Works	Kerb and Channel	1302	m	55.54	72313.08	61.71	80346.42
	Cycle Path	0	m2	77.61	0.00	93.16	0.00
	SUP/ Footpath	1302	m2	64.36	83796.72	74.61	97142.22
	Traffic Island	0	m2	78.63	0.00	85.19	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	182.24	0.00	200.59	0.00
	Drainage Pipe 375mm CR Bfilled	451	m	262.54	118405.54	286.72	129310.72
	Drainage Pipe 450mm CR Bfilled	217	m	303.41	65839.97	338.77	73513.09
	Drainage Pipe 525mm CR Bfilled	217	m	409.22	88800.74	453.98	98513.66
	Drainage - pits	26	No.	2599.43	67585.18	2843.33	73926.58
	Drainage – Sub-soil drainage	1302	m	34.33	44697.66	43.98	57261.96
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
	Swale lining - invert lime stabilisation	3284	m2	20.00	65680.00	25.00	82100.00
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	111186.08	0.00	130494.95	0.00
Landscape	Tree Planting, 45L tree	132	No.	307.37	40572.84	367.83	48553.56
	Topsoil with seeding, 100mm depth	28798	m2	7.31	210513.38	8.56	246510.88
Street Lighting	Street Lighting - Road	651	m	219.22	142712.22	228.67	148864.17
	Street Lighting - Intersections	0	Item/ Per Leg	49111.97	0.00	56355.63	0.00
	Erosion protection for utilities	1302	m	48.00	62496.00	54.00	70308.00
Misc	Regulatory Signage	11	Item	342.92	3772.12	385.44	4239.84
	Linemarking	4557	Pavement	3.16	14400.12	4.15	18911.55
	Landscape maintenance (intersections)	0	Item	72291.19	0.00	89300.67	0.00
	Landscape maintenance (roads)	28798	m2	2.94	84666.12	3.00	86394.00
	Tactile Pavers (Hazard only)	0	Item	296.31	0.00	324.03	0.00
Other	Rock Allowance	12015	m3	200.00	2403000.00	220.00	2643300.00
	Culverts - Item 31 (BM Report) with rock gabions	1	Item	199625.83	199625.83	231555.73	231555.73
Delivery	Council Fees	1	%	3.25	305105.16	3.25	353194.93
	VicRoads Fees	1	%	1.00	93878.51	1.00	108675.36
	Traffic Management	1	%	5.00	469392.56	5.00	543376.81
	Environmental Management	1	%	0.50	46939.26	0.50	54337.68
	Surveying and Design	1	%	5.00	469392.56	5.00	543376.81
	Supervision and Project management	1	%	9.00	844906.61	9.00	978078.26
	Site Establishment	1	%	2.50	234696.28	2.50	271688.41
	Contingency	1	%	15.00	1408177.68	15.00	1630130.44
Total	Excluding Delivery				9,387,851		10,867,536
	Including Delivery				13,260,340		15,350,395

Description:	Primary - Connector - Bespoke Signalised Intersection	DRAFT ISSUE
Civil Component Number:	IN-06a	

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preparation	16261	m2	3.73	60653.53	5.03	81792.83
	Soil stabilisation - gypsum treatment	31250	m2	15.00	468750.00	20.00	625000.00
	Additional construction staging measures to reduce grubbing and excavation	1	%	10.00	6065.35	10.00	8179.28
	Earthworks	59086	m3	34.53	2040239.58	41.06	2426071.16
	Erosion protection for 1:4 batters	15610	m2	3.84	59942.40	4.29	66966.90
Road Pavement	Primary Arterial Pavement	15120	m2	171.88	2598825.60	188.74	2853748.80
	Secondary Arterial Pavement	0	m2	128.70	0.00	135.56	0.00
	Collector Arterial Pavement	2640	m2	106.55	281292.00	113.94	300801.60
	Subgrade Preparation	17760	m2	14.41	255921.60	16.38	290908.80
	Pavement Rehabilitation	0	m2	52.27	0.00	60.11	0.00
	Lime stabilisation, 0.5m past BoK	680	m2	20.00	13600.00	25.00	17000.00
	Crushed rock capping layer, 0.5m past BoK	17760	m2	20.00	355200.00	25.00	444000.00
Concrete Works	Kerb and Channel	1360	m	55.54	75534.40	61.71	83925.60
	Cycle Path	0	m2	77.61	0.00	93.16	0.00
	SUP/ Footpath	1360	m2	64.36	87529.60	74.61	101469.60
	Traffic Island	232	m2	78.63	18242.16	85.19	19764.08
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	182.24	0.00	200.59	0.00
	Drainage Pipe 375mm CR Bfilled	680	m	262.54	178527.20	286.72	194969.60
	Drainage Pipe 450mm CR Bfilled	340	m	303.41	103159.40	338.77	115181.80
	Drainage Pipe 525mm CR Bfilled	340	m	409.22	139134.80	453.98	154353.20
	Drainage - pits	29	No.	2599.43	75383.47	2843.33	82456.57
	Drainage – Sub-soil drainage	1360	m	34.33	46688.80	43.98	59812.80
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
	Swale lining - invert lime stabilisation	3430	m2	20.00	68600.00	25.00	85750.00
Traffic signals	Traffic Signals (all inclusive)	4	Item/ Per Leg	111186.08	444744.32	130494.95	521979.80
Landscape	Tree Planting, 45L tree	136	No.	307.37	41802.32	367.83	50024.88
	Topsoil with seeding, 100mm depth	31250	m2	7.31	228437.50	8.56	267500.00
Street Lighting	Street Lighting - Road	0	m	219.22	0.00	228.67	0.00
	Street Lighting - Intersections	4	Item/ Per Leg	49111.97	196447.88	56355.63	225422.52
	Erosion protection for utilities	1360	m	48.00	65280.00	54.00	73440.00
Misc.	W-beam Guard Rail Fence	520	m	189.59	98586.80	227.52	118310.40
	Regulatory Signage	16	Item	342.92	5486.72	385.44	6167.04
	Line marking	17760	m2 of Pavement	3.16	56121.60	4.15	73704.00
	Landscape maintenance (intersections)	1	Item	72291.19	72291.19	89300.67	89300.67
	Landscape maintenance (roads)	0	m2 of l'scape	2.94	0.00	3.00	0.00
	Tactile Pavers (Hazard only)	16	Item	296.31	4740.96	324.03	5184.48
Other	Rock Allowance	5909	m3	101.33	598718.44	116.53	688529.16
	Culverts - Item 31 (BM Report) with rock gabions	1	Item	199625.83	199625.83	231555.73	231555.73
Delivery	Council Fees	1	%	3.25	290731.14	3.25	336806.32
	VicRoads Fees	1	%	1.00	89455.73	1.00	103632.71
	Traffic Management	1	%	5.00	447278.67	5.00	518163.57
	Environmental Management	1	%	0.50	44727.87	0.50	51816.36
	Surveying and Design	1	%	5.00	447278.67	5.00	518163.57
	Supervision and Project management	1	%	9.00	805101.61	9.00	932694.42
	Site Establishment	1	%	2.50	223639.34	2.50	259081.78
	Contingency	1	%	15.00	1341836.02	15.00	1554490.70
Total	Excluding Delivery				8,945,573		10,363,271
	Including Delivery				12,635,622		14,638,121

Description:	Primary - Connector - Bespoke Signalised T-Intersection	DRAFT ISSUE
Civil Component Number:	IN-07a	

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preparation	43823	m2	3.73	163459.79	5.03	220429.69
	Soil stabilisation - gypsum treatment	16880	m2	15.00	253200.00	20.00	337600.00
	Additional construction staging measures to reduce grubbing and excavation	1	%	10.00	16345.98	10.00	22042.97
	Earthworks	92982	m3	34.53	3210668.46	41.06	3817840.92
	Erosion protection for 1:4 batters	27240	m2	3.84	104601.60	4.29	116859.60
Road Pavement	Primary Arterial Pavement	15120	m2	171.88	2598825.60	188.74	2853748.80
	Secondary Arterial Pavement	0	m2	128.70	0.00	135.56	0.00
	Collector Arterial Pavement	1760	m2	106.55	187528.00	113.94	200534.40
	Subgrade Preparation	16880	m2	14.41	243240.80	16.38	276494.40
	Pavement Rehabilitation	0	m2	52.27	0.00	60.11	0.00
	Lime stabilisation, 0.5m past BoK	640	m2	20.00	12800.00	25.00	16000.00
	Crushed rock capping layer, 0.5m past BoK	16880	m2	20.00	337600.00	25.00	422000.00
Concrete Works	Kerb and Channel	1280	m	55.54	71091.20	61.71	78988.80
	Cycle Path	0	m2	77.61	0.00	93.16	0.00
	SUP/ Footpath	1280	m2	64.36	82380.80	74.61	95500.80
	Traffic Island	1993	m2	78.63	156709.59	85.19	169783.67
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	182.24	0.00	200.59	0.00
	Drainage Pipe 375mm CR Bfilled	640	m	262.54	168025.60	286.72	183500.80
	Drainage Pipe 450mm CR Bfilled	320	m	303.41	97091.20	338.77	108406.40
	Drainage Pipe 525mm CR Bfilled	320	m	409.22	130950.40	453.98	145273.60
	Drainage - pits	28	No.	2599.43	72784.04	2843.33	79613.24
	Drainage – Sub-soil drainage	1280	m	34.33	43942.40	43.98	56294.40
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
	Swale lining - invert lime stabilisation	3228	m2	20.00	64560.00	25.00	80700.00
Traffic signals	Traffic Signals (all inclusive)	3	Item/ Per Leg	111186.08	333558.24	130494.95	391484.85
Landscape	Tree Planting, 45L tree	128	No.	307.37	39343.36	367.83	47082.24
	Topsoil with seeding, 100mm depth	14720	m2	7.31	107603.20	8.56	126003.20
Street Lighting	Street Lighting - Road	0	m	219.22	0.00	228.67	0.00
	Street Lighting - Intersections	3	Item/ Per Leg	49111.97	147335.91	56355.63	169066.89
	Erosion protection for utilities	1280	m	48.00	61440.00	54.00	69120.00
Misc.	Regulatory Signage	6	Item	342.92	2057.52	385.44	2312.64
	Line marking	16880	m2 of Pavement	3.16	53340.80	4.15	70052.00
	Landscape maintenance (intersections)	1	Item	72291.19	72291.19	89300.67	89300.67
	Landscape maintenance (roads)	0	m2 of l'scape	2.94	0.00	3.00	0.00
	Tactile Pavers (Hazard only)	8	Item	296.31	2370.48	324.03	2592.24
Other	Rock Allowance	9298	m3	101.33	942186.61	116.53	1083519.25
	Culverts - Item 31 (BM Report) with rock gabions	1	Item	199625.83	199625.83	231555.73	231555.73
Delivery	Council Fees	1	%	3.25	324251.15	3.25	375820.32
	VicRoads Fees	1	%	1.00	99769.59	1.00	115637.02
	Traffic Management	1	%	5.00	498847.93	5.00	578185.11
	Environmental Management	1	%	0.50	49884.79	0.50	57818.51
	Surveying and Design	1	%	5.00	498847.93	5.00	578185.11
	Supervision and Project management	1	%	9.00	897926.27	9.00	1040733.20
	Site Establishment	1	%	2.50	249423.96	2.50	289092.56
	Contingency	1	%	15.00	1496543.79	15.00	1734555.33
Total	Excluding Delivery				9,976,959		11,563,702
	Including Delivery				14,092,454		16,333,729