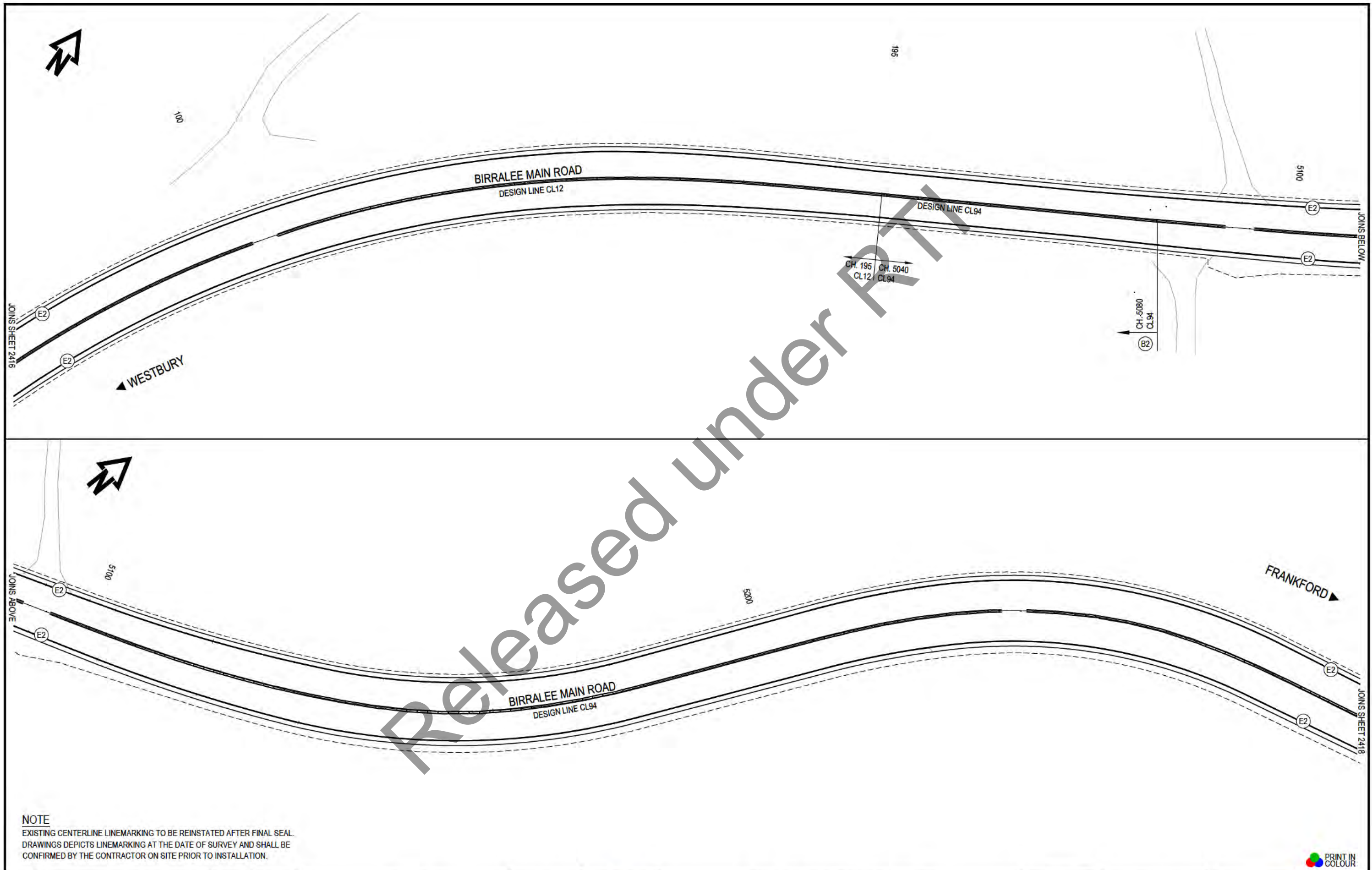
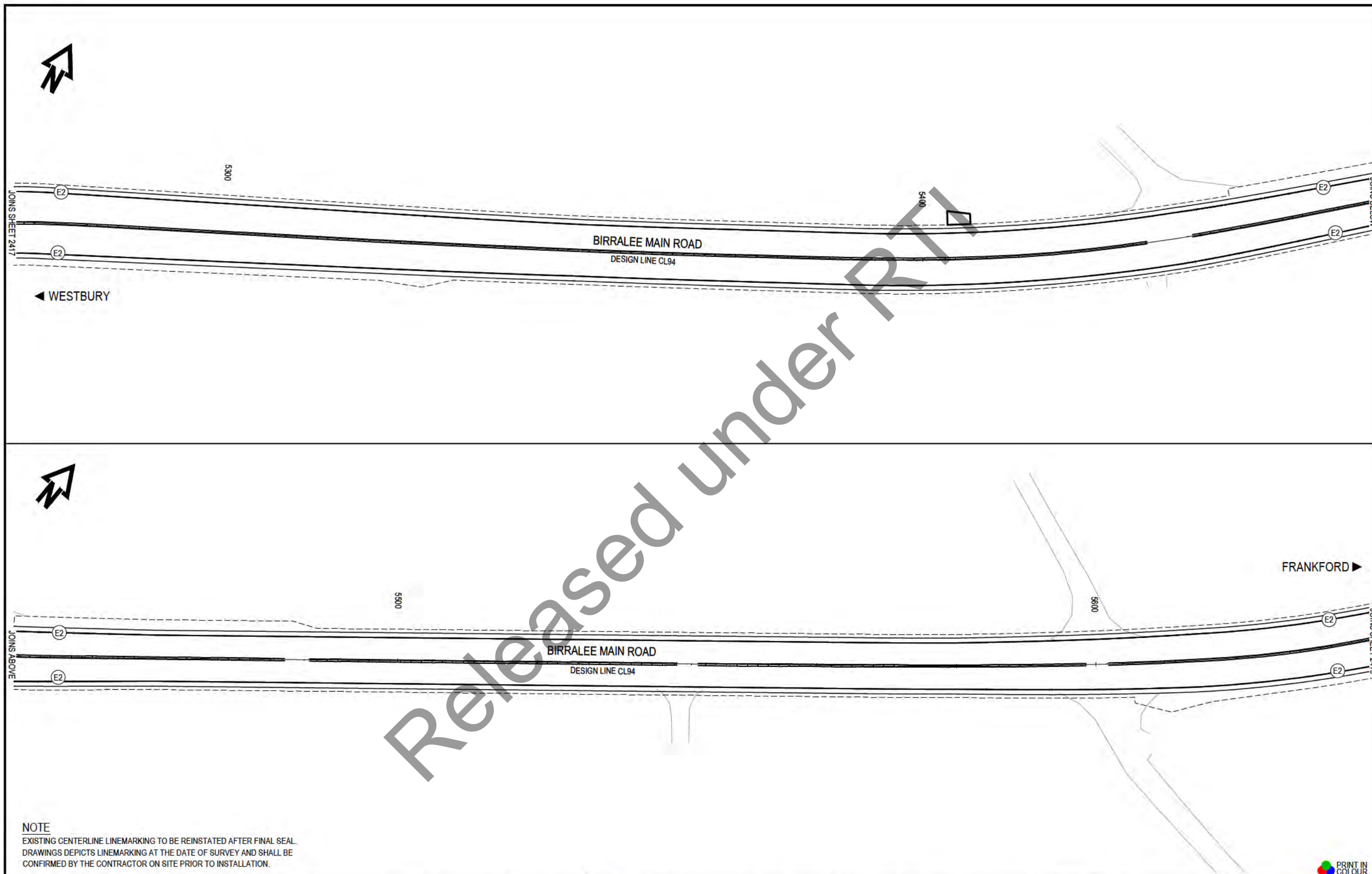




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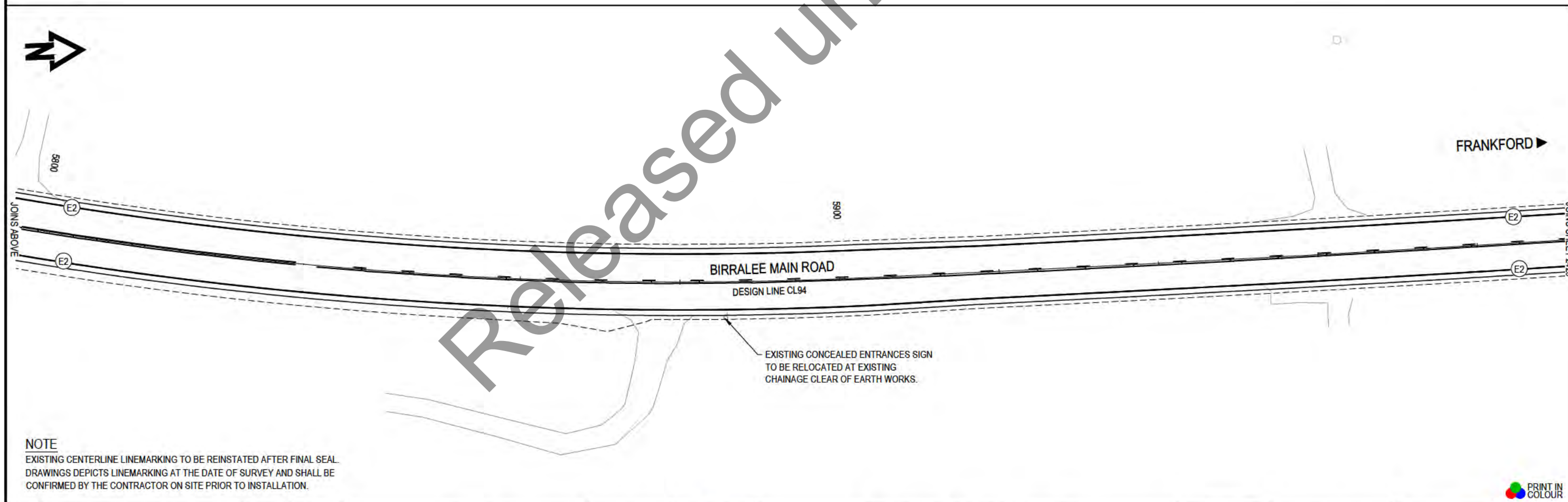
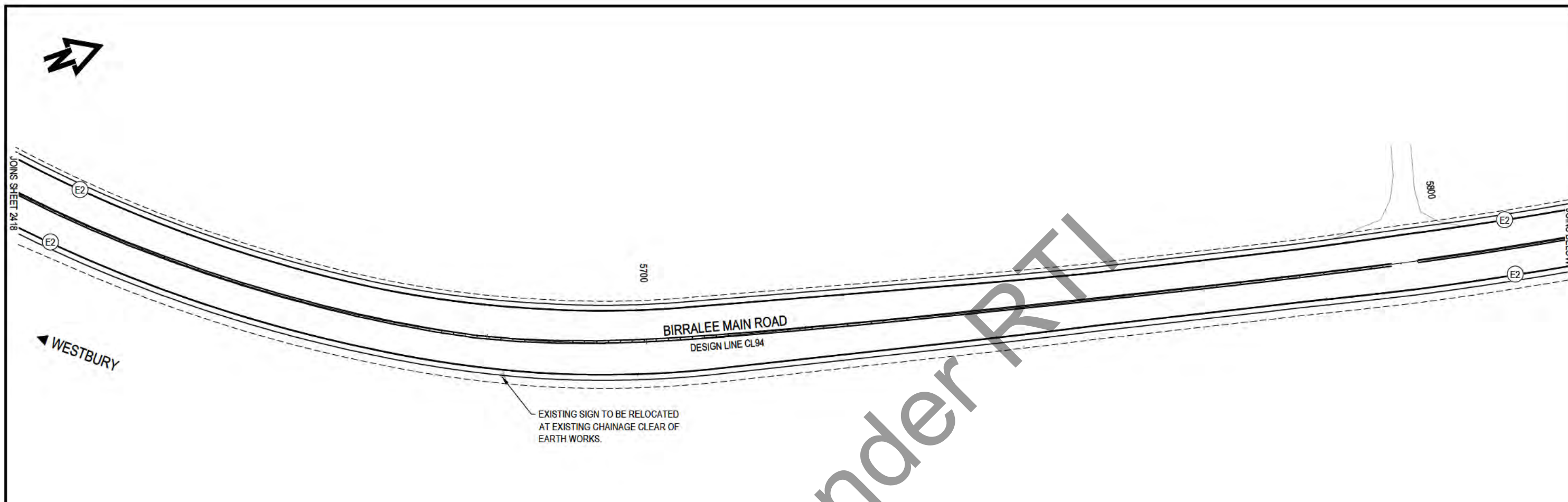
				SCALES 1:500 SCALE IN METRES - 1:500		Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2417	PRINTED DATE 28-Jul-23, 1:59 PM	SHEET No. 2417
				Co-ordinate System: MGA-Z55 GDA20 Height Datum: A.H.D.		DESIGNED REVIEWED		REGISTRATION NUMBER A1701.002		REVISION A	
A3 original This sheet may be prepared using colour and may be incomplete if copied						SIGNS AND LINEMARKING - DRG 17					



NOTE
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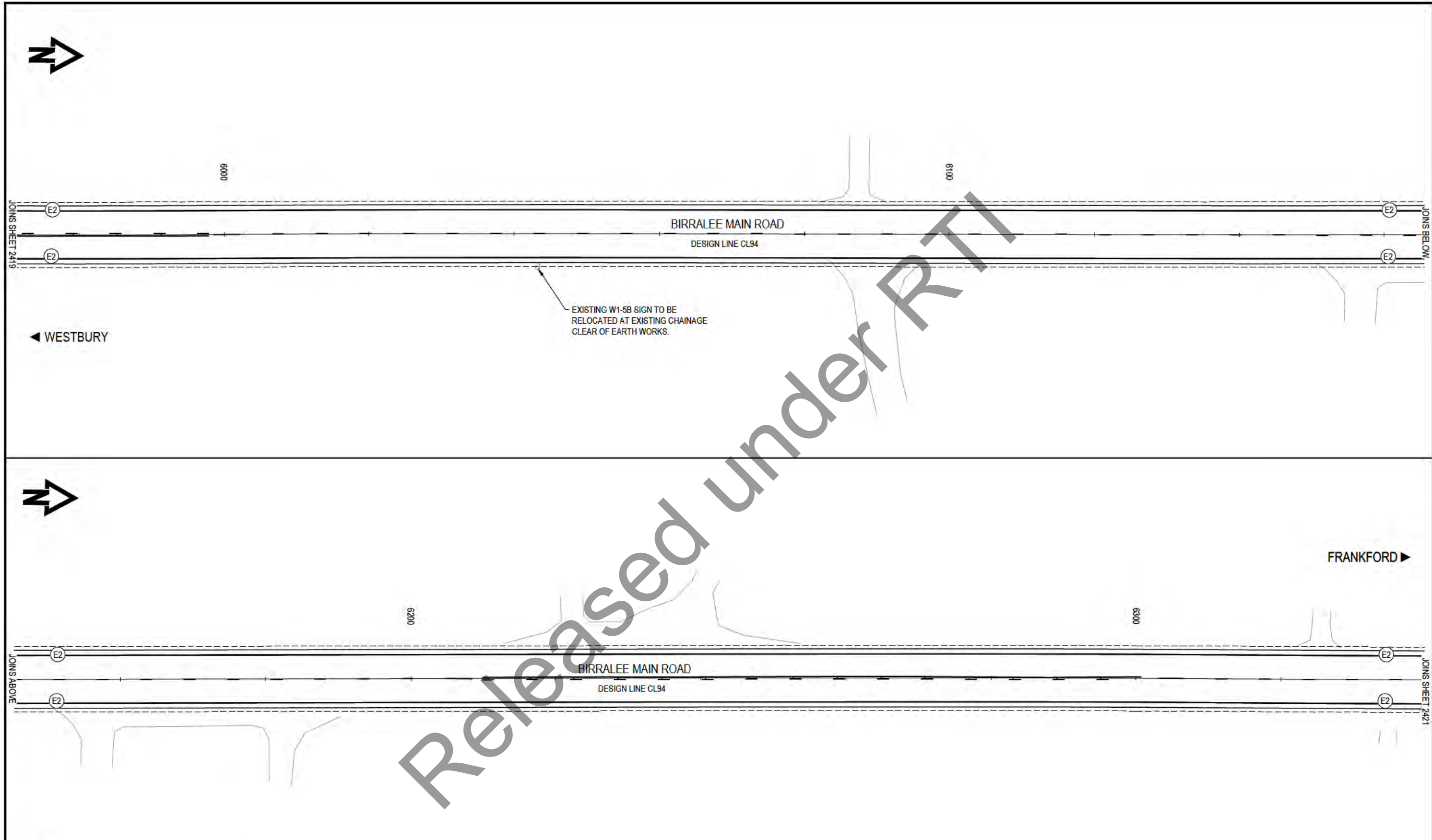
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A PRELIMINARY DESIGN L.J.B. 28/07/2023 No. Amendment Description Initials Date				DESIGNED REVIEWED		REGISTRATION NUMBER A1701.002		SIGNS AND LINEMARKING - DRG 18		REVISION A			
A3 original This sheet may be prepared using colour and may be incomplete if copied				Co-ordinate System: MGA-Z55 GDA20 Height Datum: A.H.D.									





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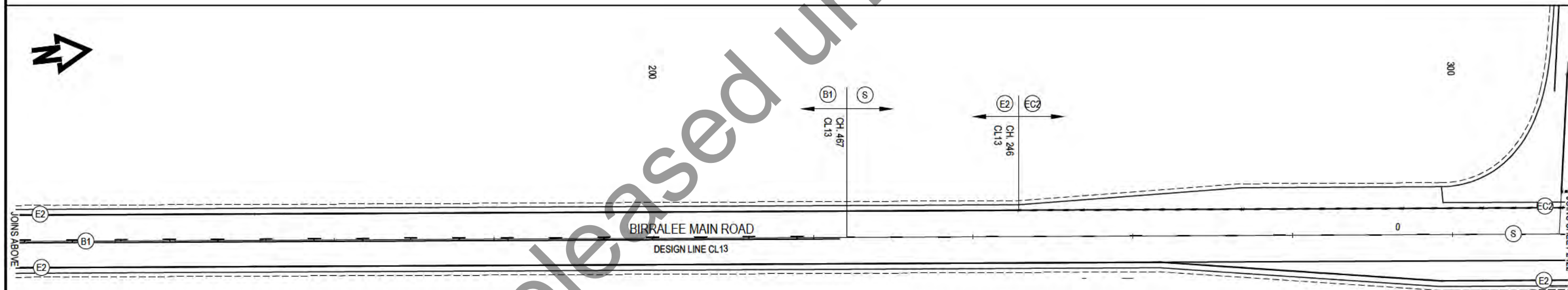
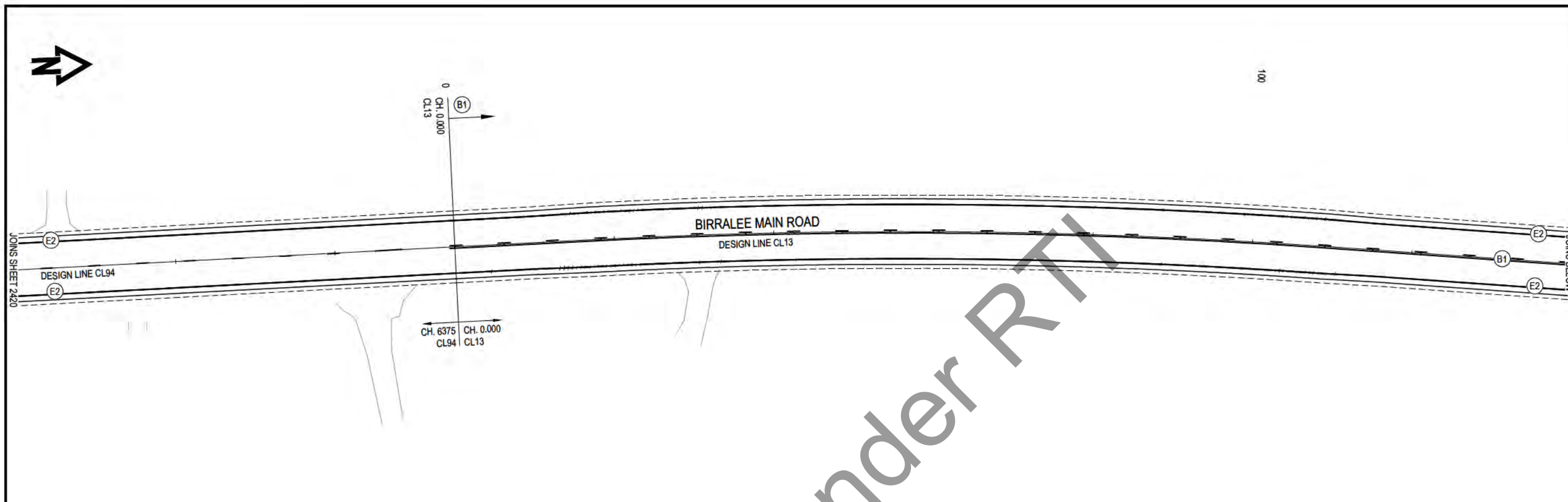
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DRAWINGS DEPICTS LINEMARKING AT THE DATE OF SURVEY AND SHALL BE
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			SCALES 1:500 505101520 SCALE IN METRES - 1:500		pitt&sherry Queensland Government		Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)			CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2420	PRINTED DATE 28-Jul-23, 2:00 PM	SHEET No. 2420	
A PRELIMINARY DESIGN			L.J.B.		28/07/2023		DESIGNED			REGISTRATION NUMBER			2420	
No. Amendment Description			Initials		Date									REVIEWED
A3 original		This sheet may be prepared using colour and may be incomplete if copied		Co-ordinate System: MGA-Z55 GDA20		Height Datum: A.H.D.		SIGNS AND LINEMARKING - DRG 20			A1701.002			REVISION A

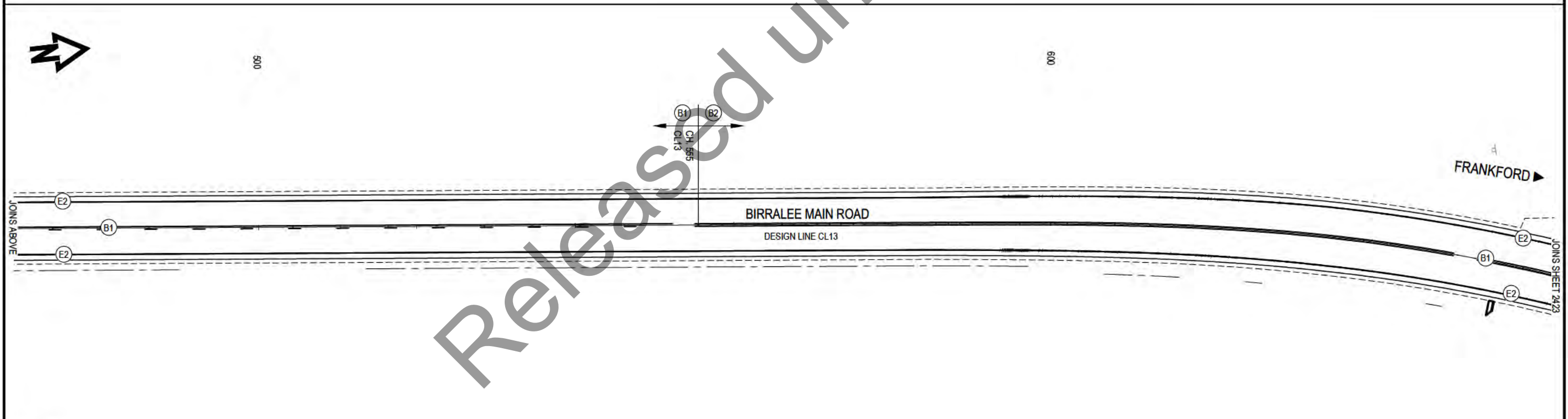
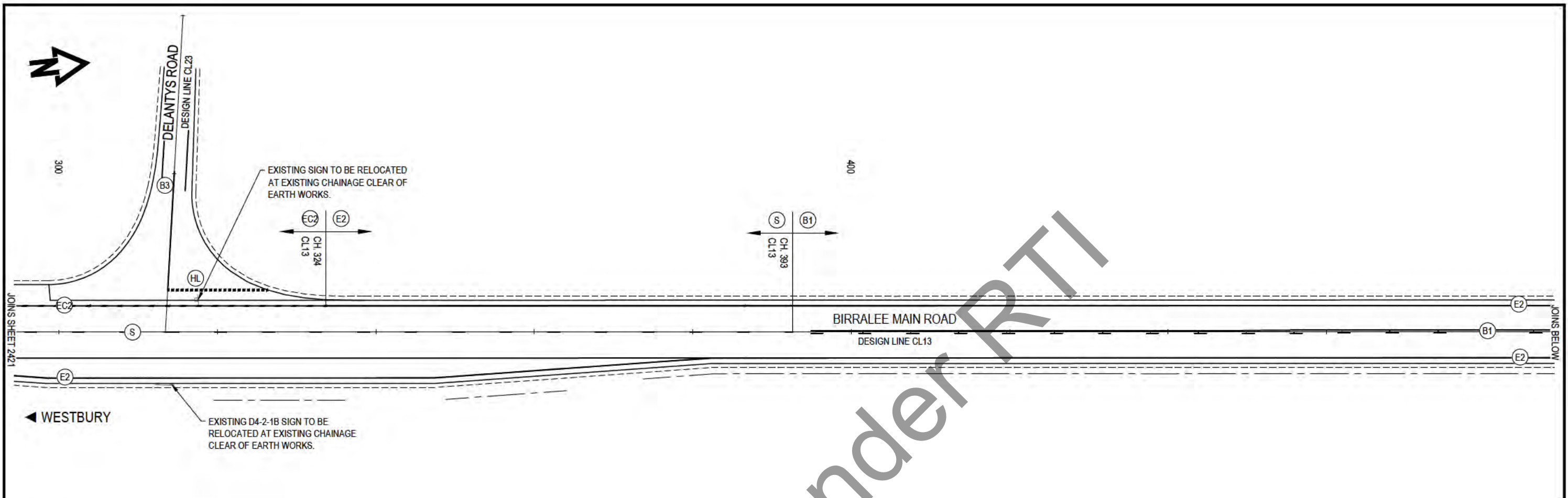




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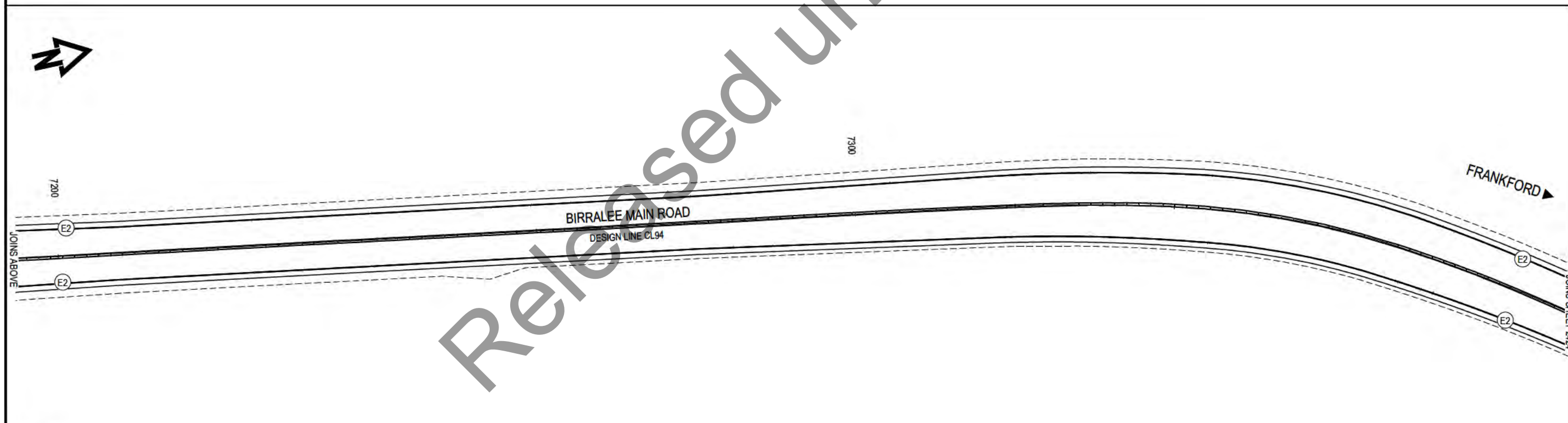
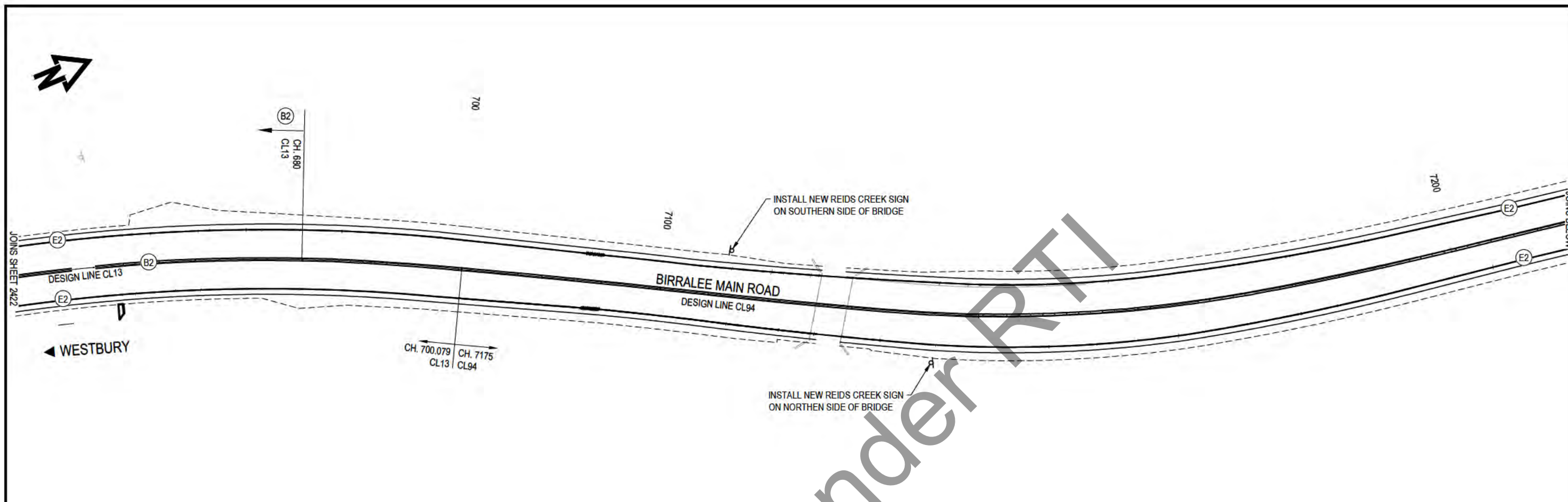
				SCALES 1:500 SCALE IN METRES - 1:500 				Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2421	PRINTED DATE 28-Jul-23, 2:00 PM	SHEET No. 2421
A PRELIMINARY DESIGN L.J.B. 28/07/2023 No. Amendment Description Initials Date				DESIGNED REVIEWED		REGISTRATION NUMBER A1701.002		SIGNS AND LINEMARKING - DRG 21		REVISION A			
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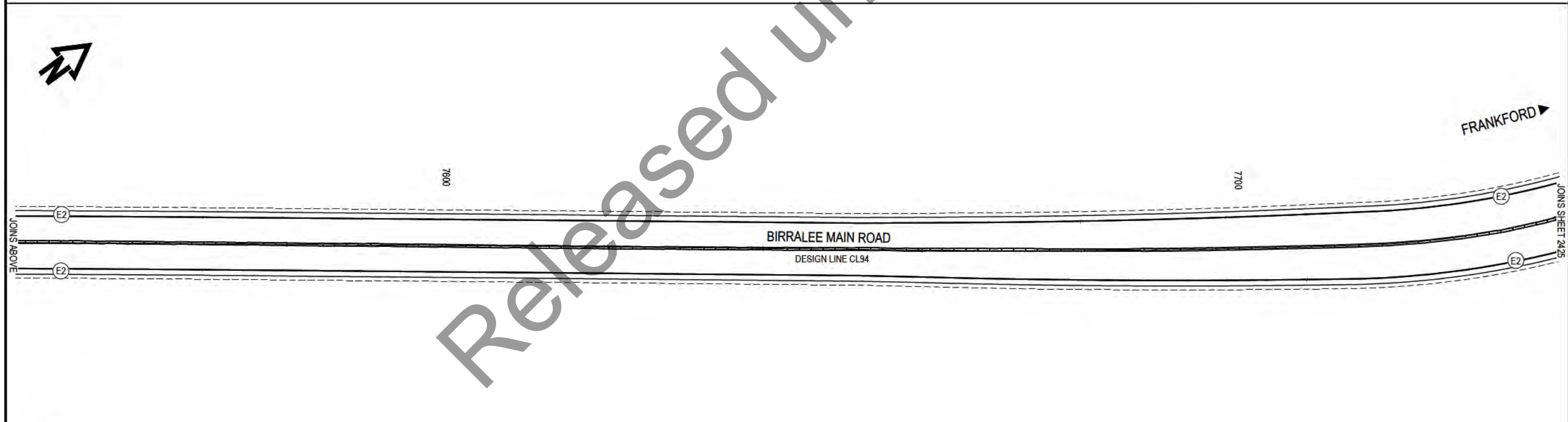
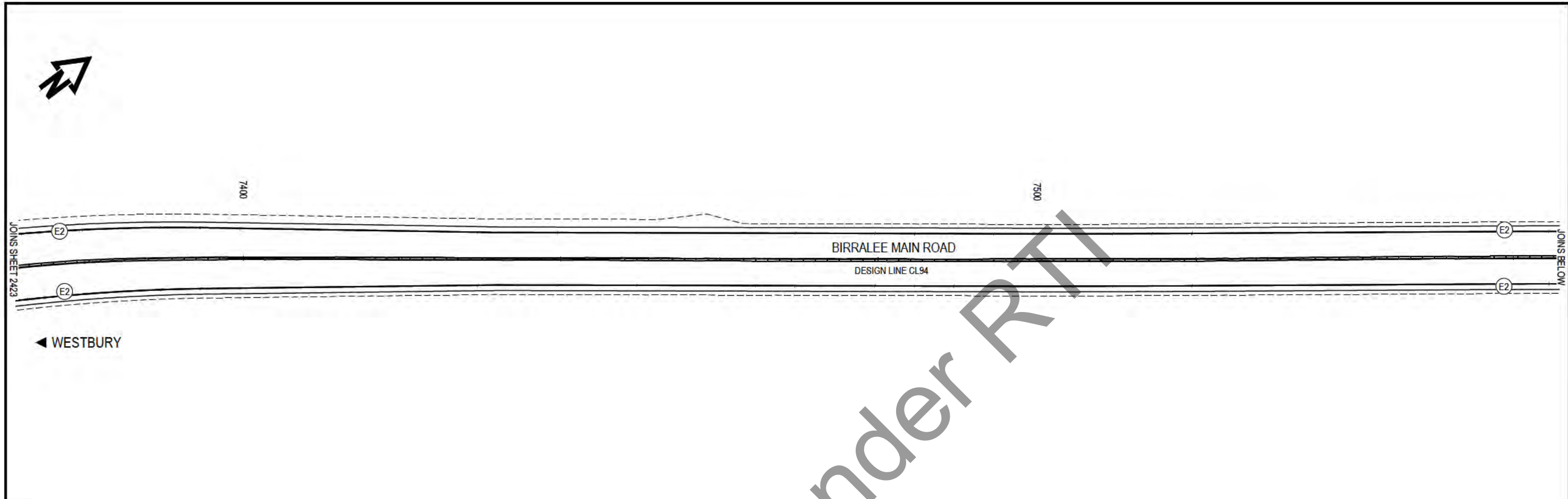
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						SCALES		pitt&sherry				Department of State Growth				CONTRACT No. 3521		DRAWING S-P.20.2000-00-CIV-DRG-2423		PRINTED DATE 28-Jul-23, 2:00 PM		SHEET No.			
						1:500						BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)												2423	
												ROADWORKS (PACKAGE 2)													
A		PRELIMINARY DESIGN		L.J.B.		28/07/2023		SCALE IN METRES - 1:500		DESIGNED		SIGN													
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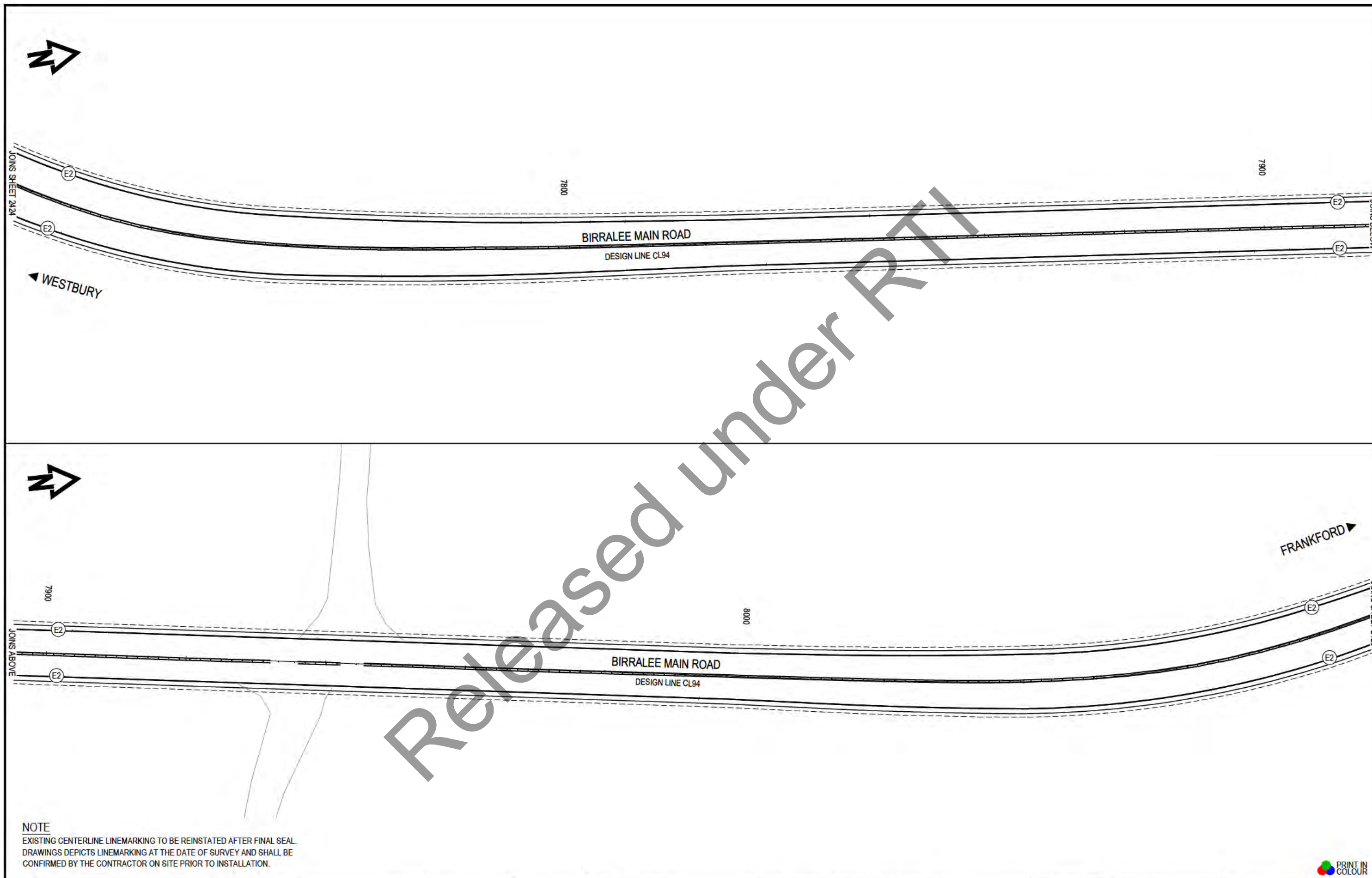


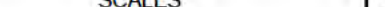
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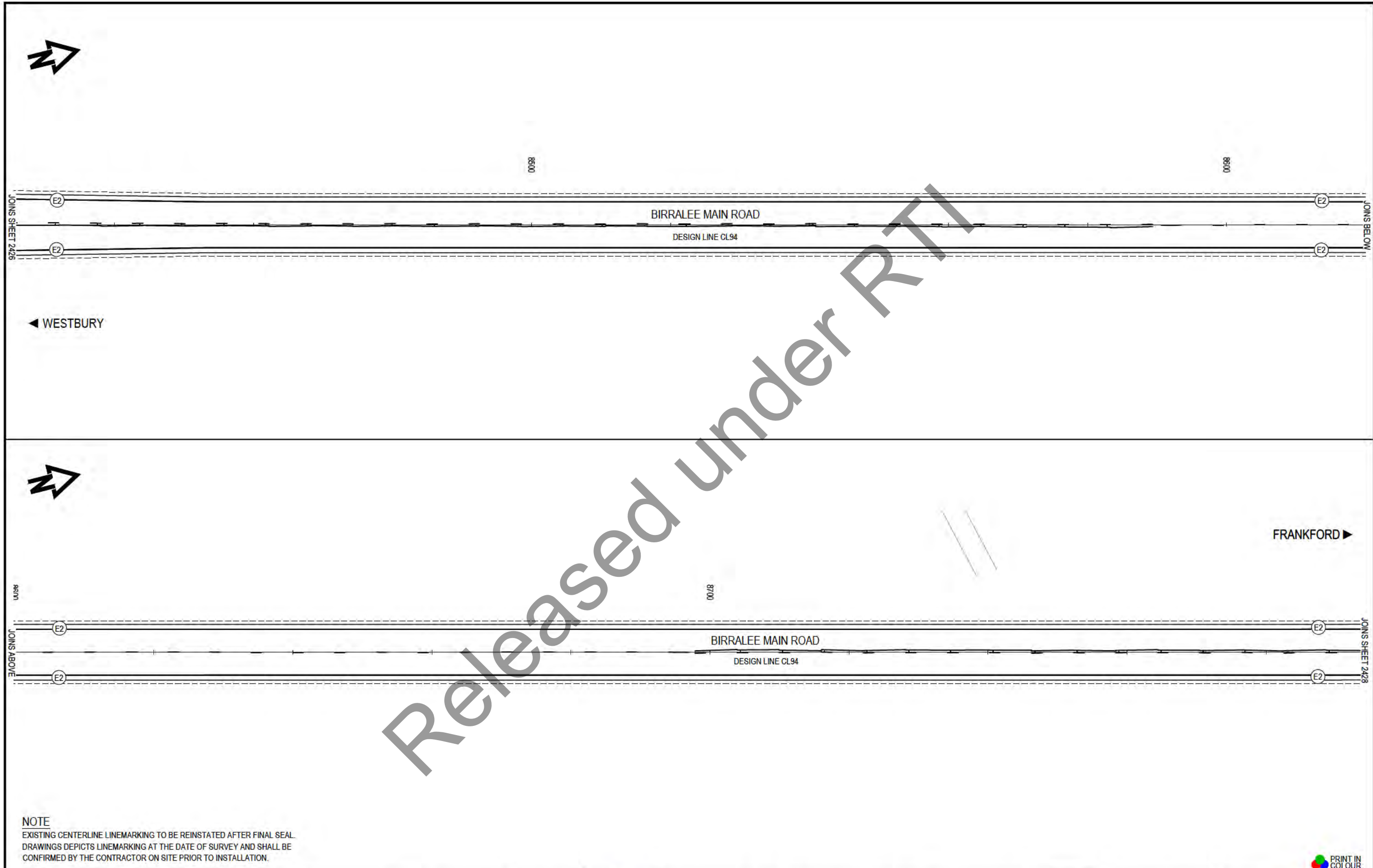
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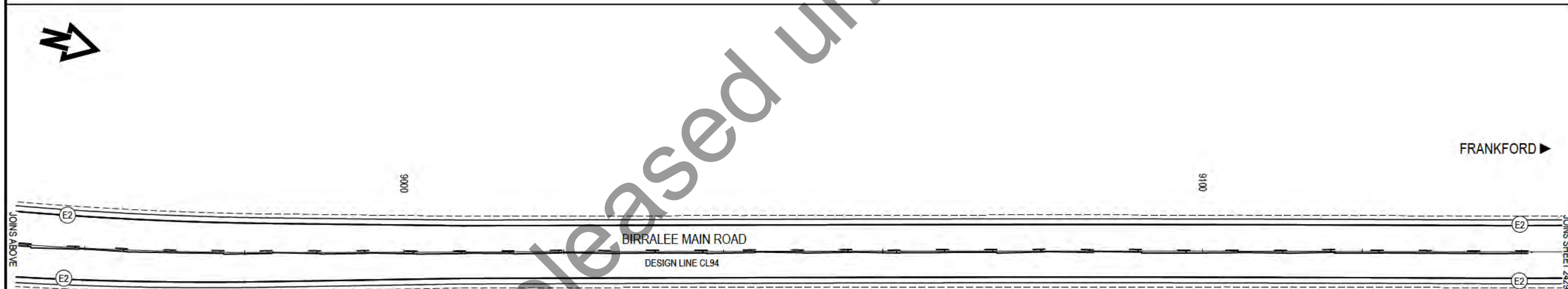
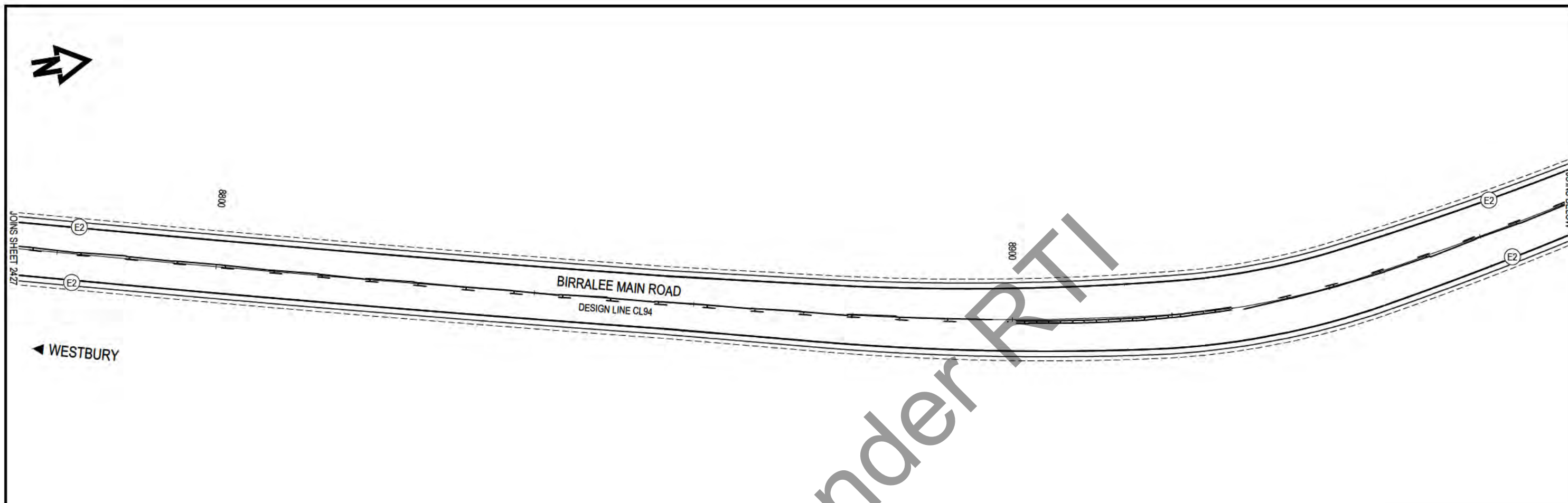


						SCALES		pitt&sherry				Department of State Growth				CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.	
						1:500						BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)				3521	S-P.20.2000-00-CIV-DRG-2425	28-Jul-23, 2:00 PM	2425	
																				
A		PRELIMINARY DESIGN		L.J.B.		28/07/2023		DESIGNED				SIGNS AND LINEMARKING - DRG 25				REGISTRATION NUMBER				REVISION A
No.		Amendment Description		Initials		Date		REVIEWED								A1701.002				
A3 original		This sheet may be prepared using colour and may be incomplete if copied				Co-ordinate System: MGA-Z55 GDA20		Height Datum: A.H.D.												



NOTE
EXISTING CENTERLINE LINEMARKING TO BE REINSTATED AFTER FINAL SEAL.
DRAWINGS DEPICTS LINEMARKING AT THE DATE OF SURVEY AND SHALL BE
CONFIRMED BY THE CONTRACTOR ON SITE PRIOR TO INSTALLATION.

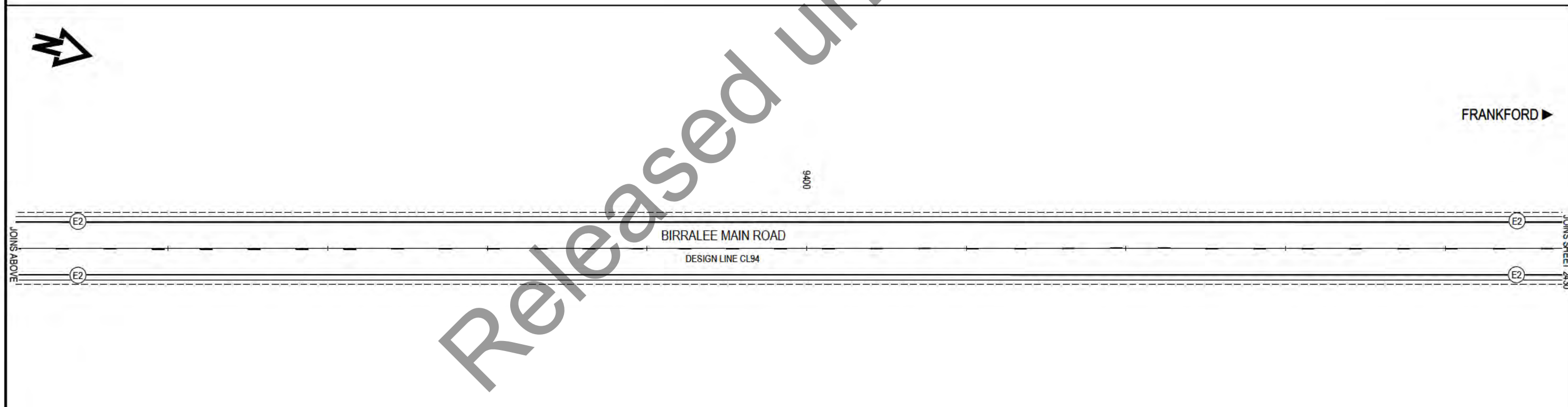
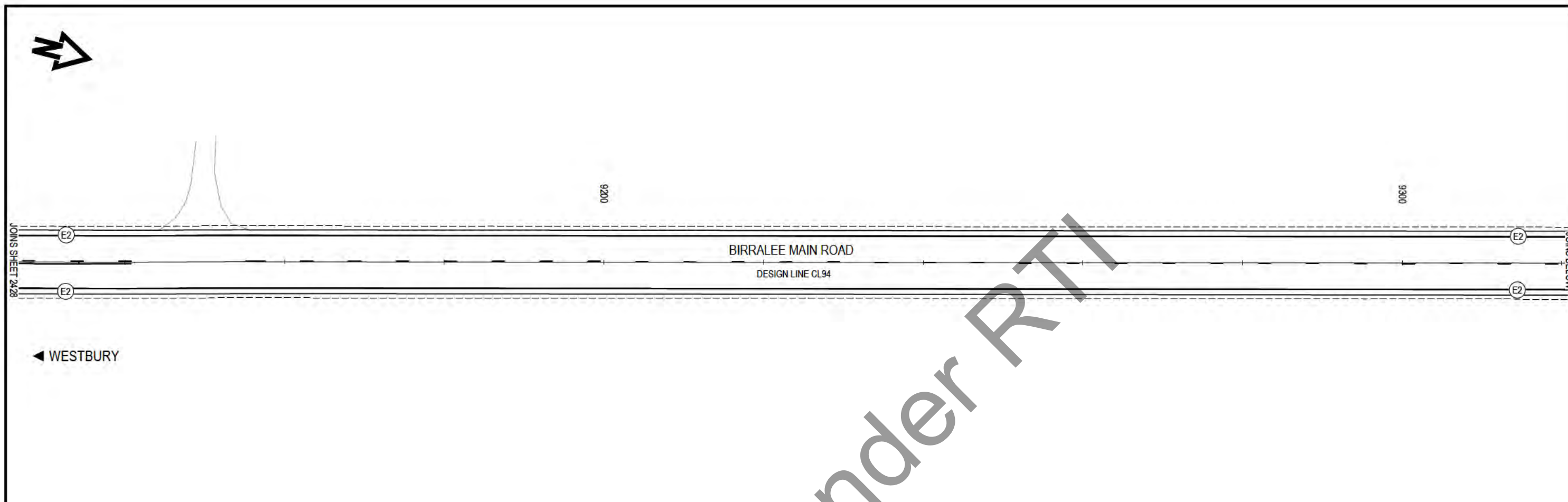
				SCALES 1:500 5 0 5 10 15 20 SCALE IN METRES - 1:500		 		Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2427	PRINTED DATE 28-Jul-23, 2:00 PM	SHEET No. 2427
A PRELIMINARY DESIGN No. Amendment Description Initials Date				DESIGNED REVIEWED		SIGNATURES		REGISTRATION NUMBER A1701.002		REVISION A			
A3 original This sheet may be prepared using colour and may be incomplete if copied				Co-ordinate System: MGA-Z55 GDA20		Height Datum: A.H.D.		SIGNS AND LINEMARKING - DRG 27					



NOTE
 EXISTING CENTERLINE LINEMARKING TO BE REINSTATED AFTER FINAL SEAL.
 DRAWINGS DEPICTS LINEMARKING AT THE DATE OF SURVEY AND SHALL BE
 CONFIRMED BY THE CONTRACTOR ON SITE PRIOR TO INSTALLATION.

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				1:500				BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		3521	S-P.20.2000-00-CIV-DRG-2428	28-Jul-23, 2:00 PM	
A	PRELIMINARY DESIGN	L.J.B.	28/07/2023			DESIGNED REVIEWED		SIGN AND LINEMARKING - DRG 28		REGISTRATION NUMBER			2428
No.	Amendment Description	Initials	Date	SCALE IN METRES - 1:500						A1701.002			
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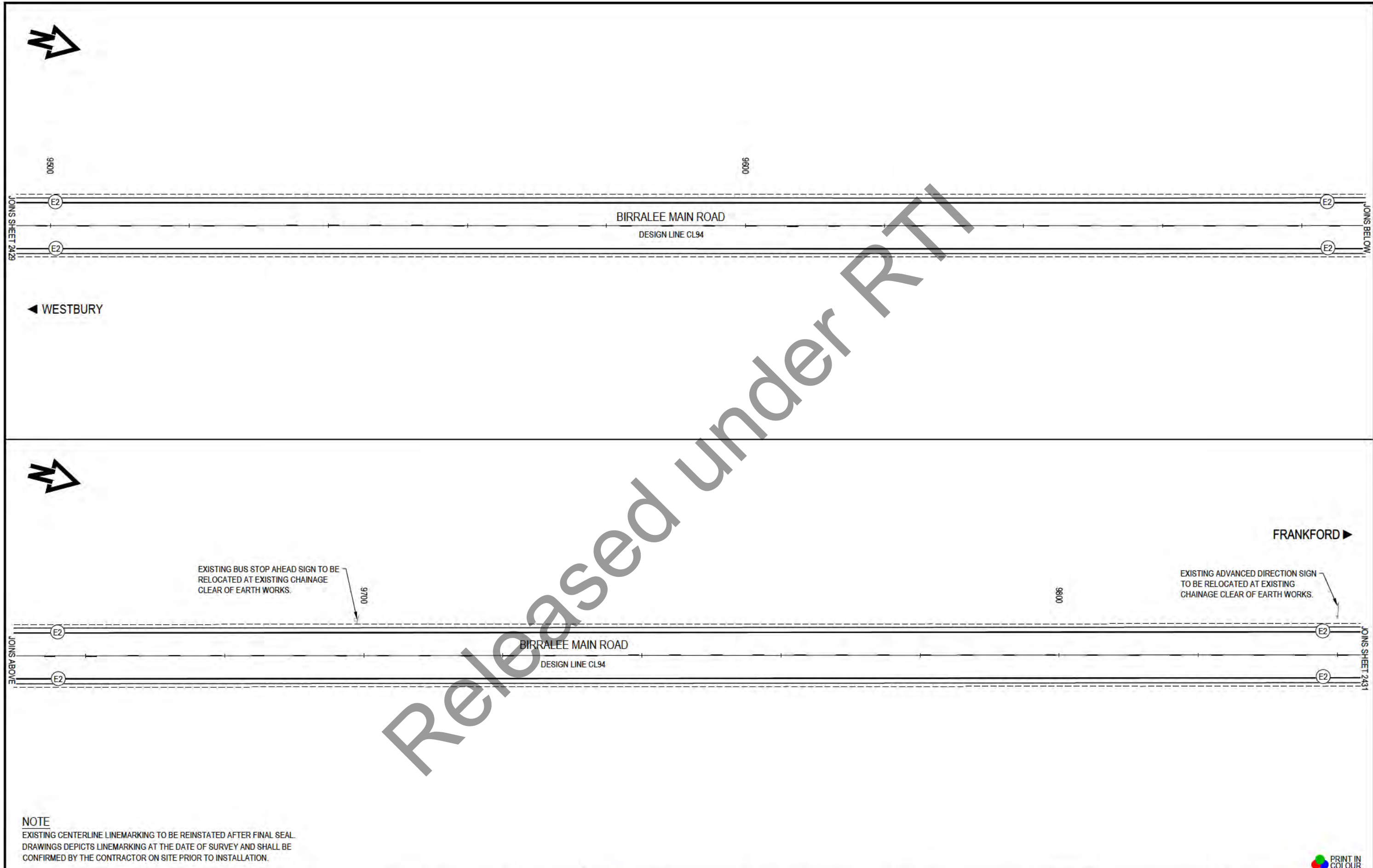




NOTE
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				SCALES 1:500 SCALE IN METRES - 1:500				Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2429	PRINTED DATE 28-Jul-23, 2:00 PM	SHEET No. 2429
A PRELIMINARY DESIGN L.J.B. 28/07/2023 No. Amendment Description Initials Date				DESIGNED REVIEWED		REGISTRATION NUMBER A1701.002		SIGNS AND LINEMARKING - DRG 29		REVISION A			
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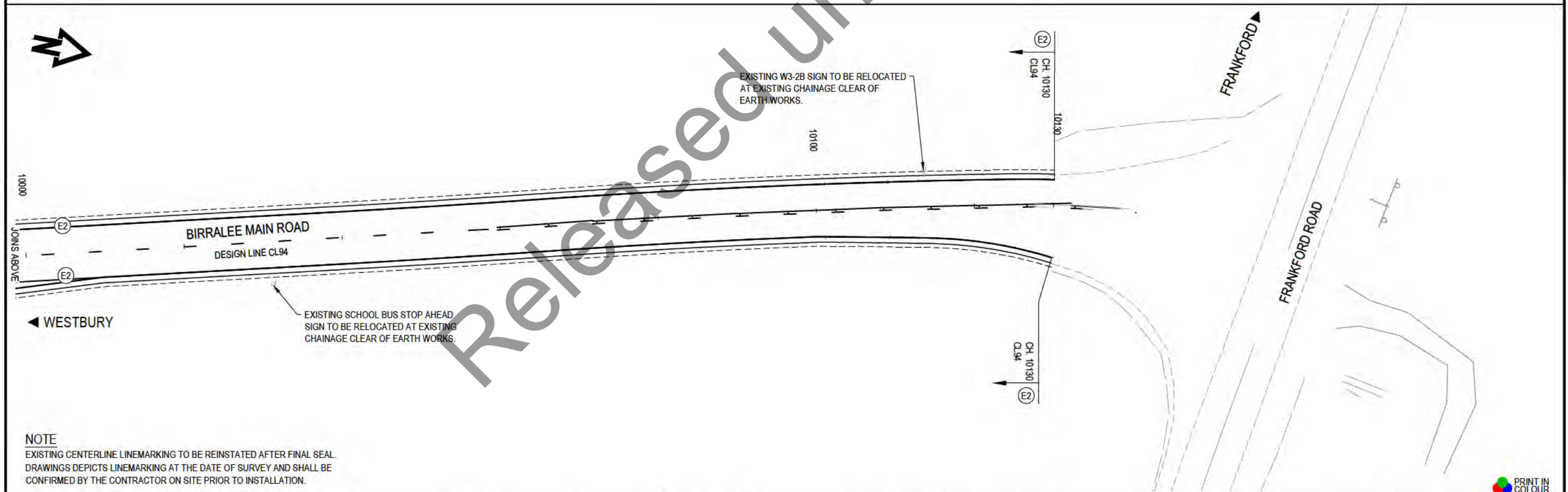
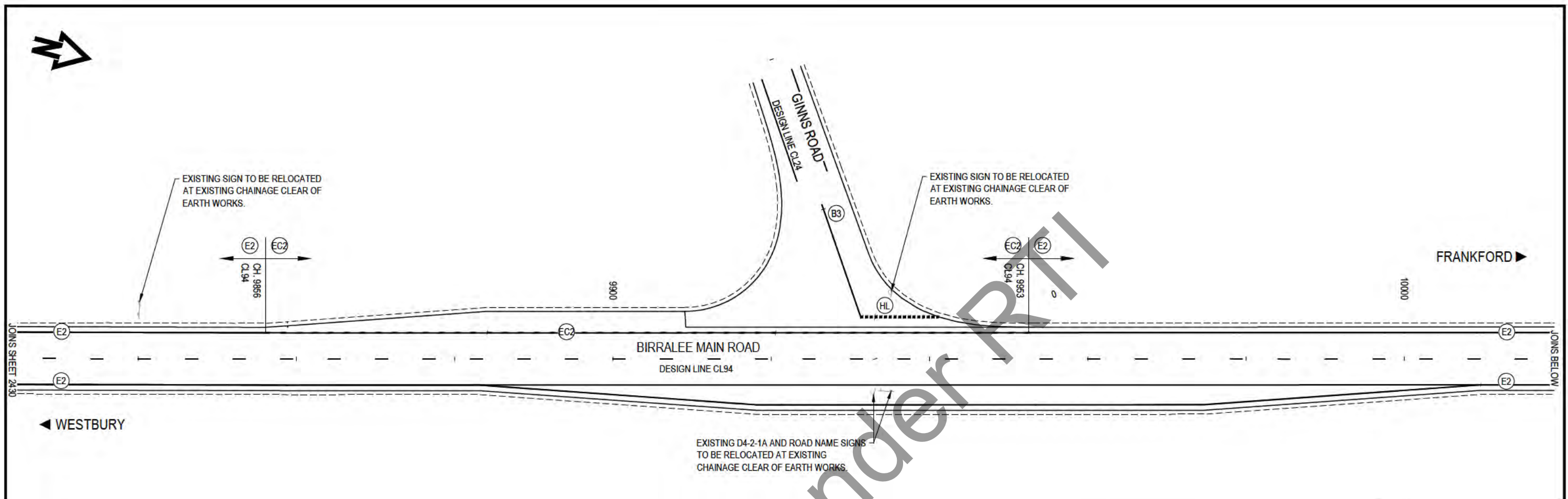




NOTE
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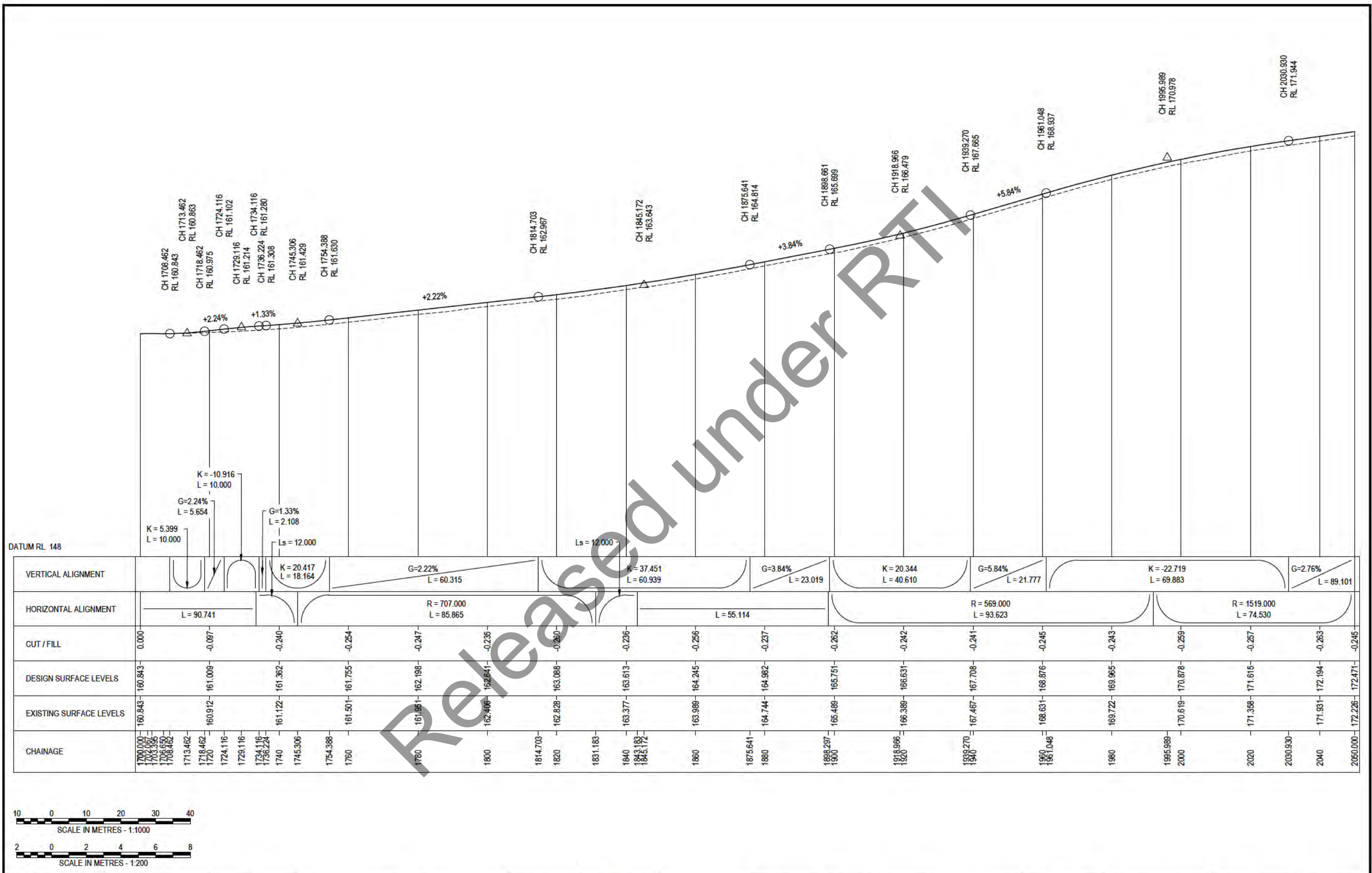
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A PRELIMINARY DESIGN				L.J.B. 28/07/2023		DESIGNED		SIGN AND LINEMARKING - DRG 30		REGISTRATION NUMBER A1701.002			
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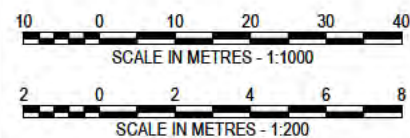
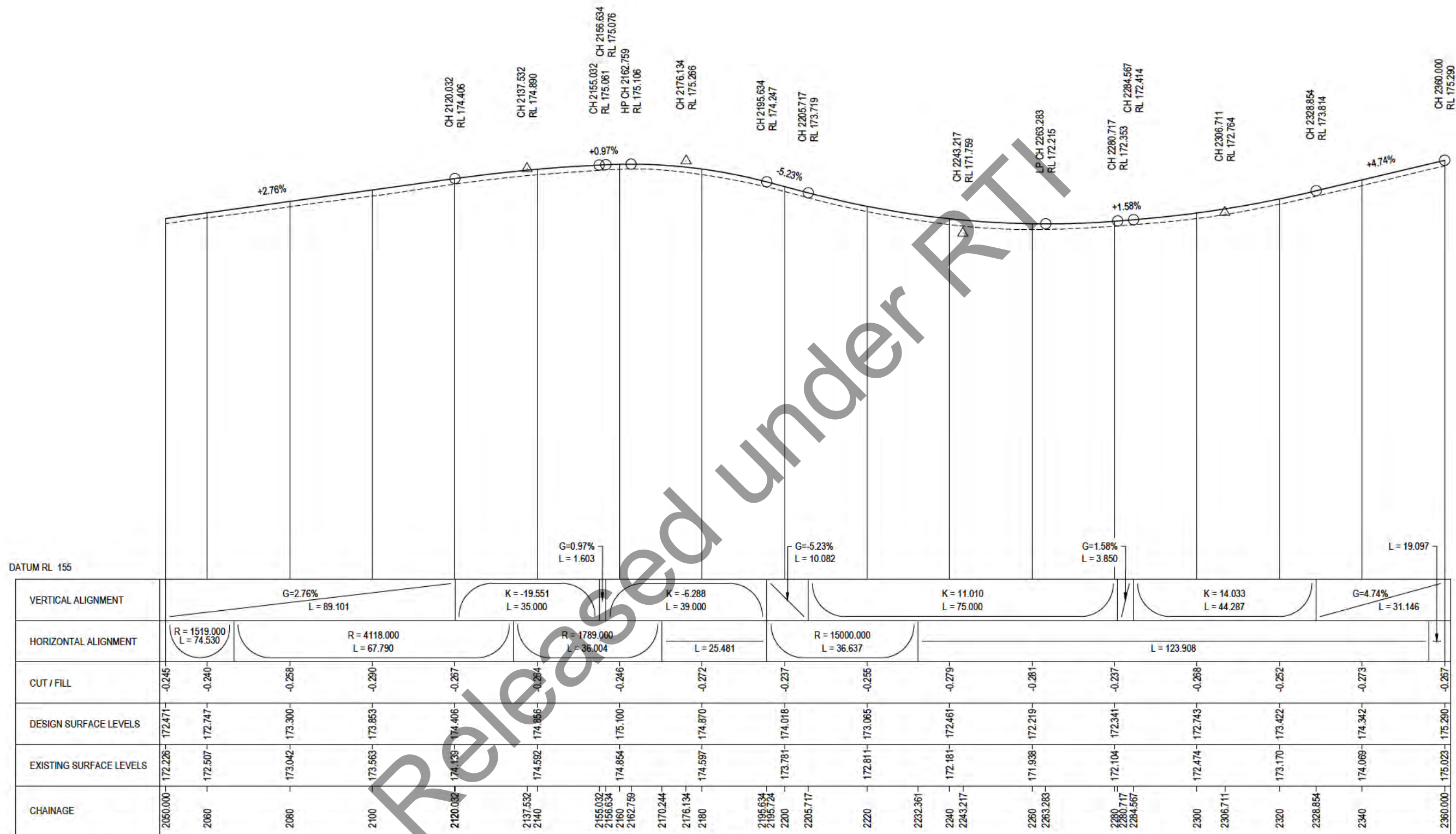


NOTE
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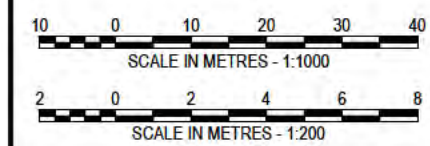
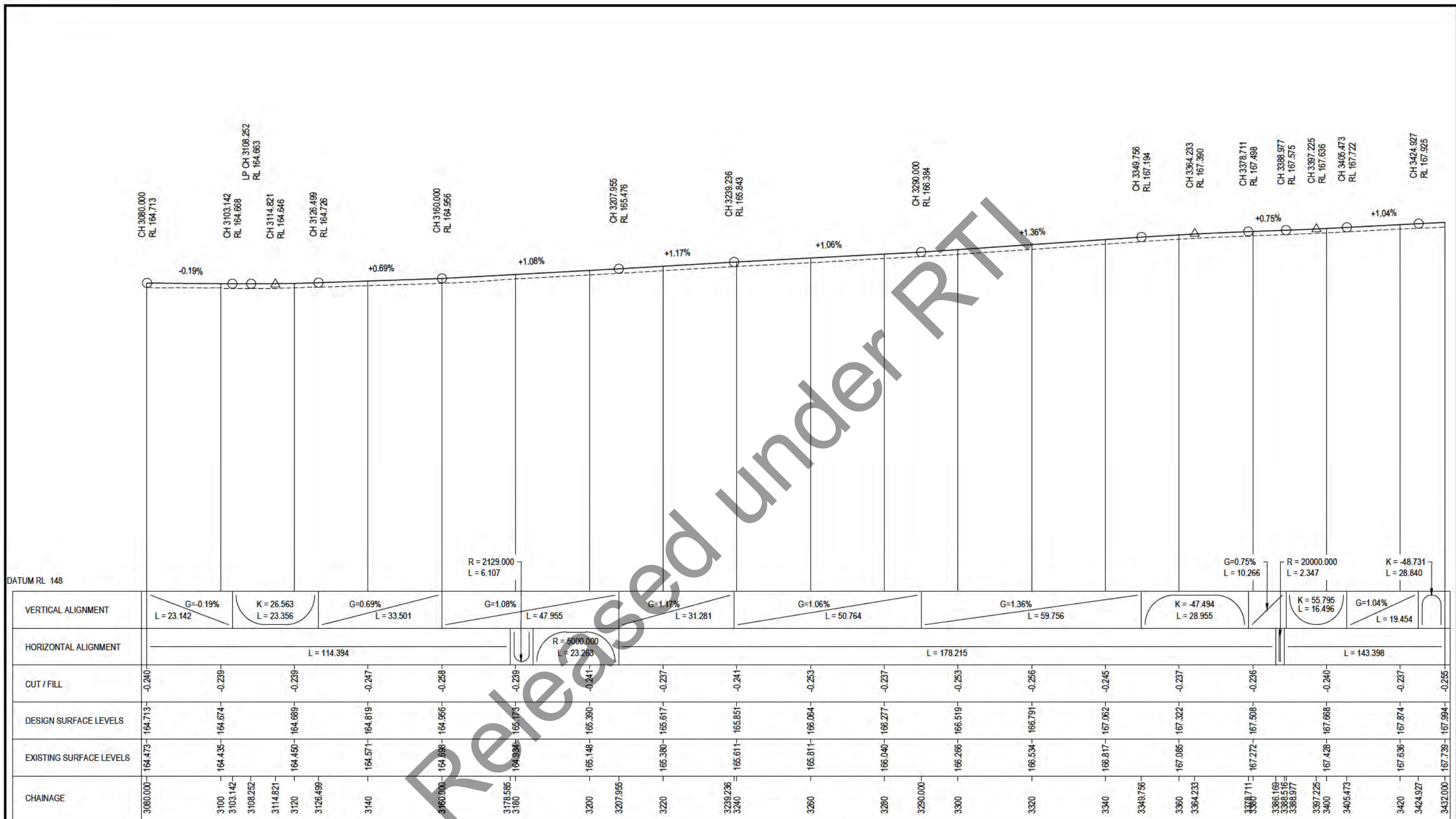
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No.	Amendment Description		Initials	Date		REVIEWED							
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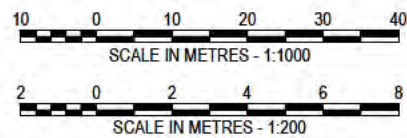
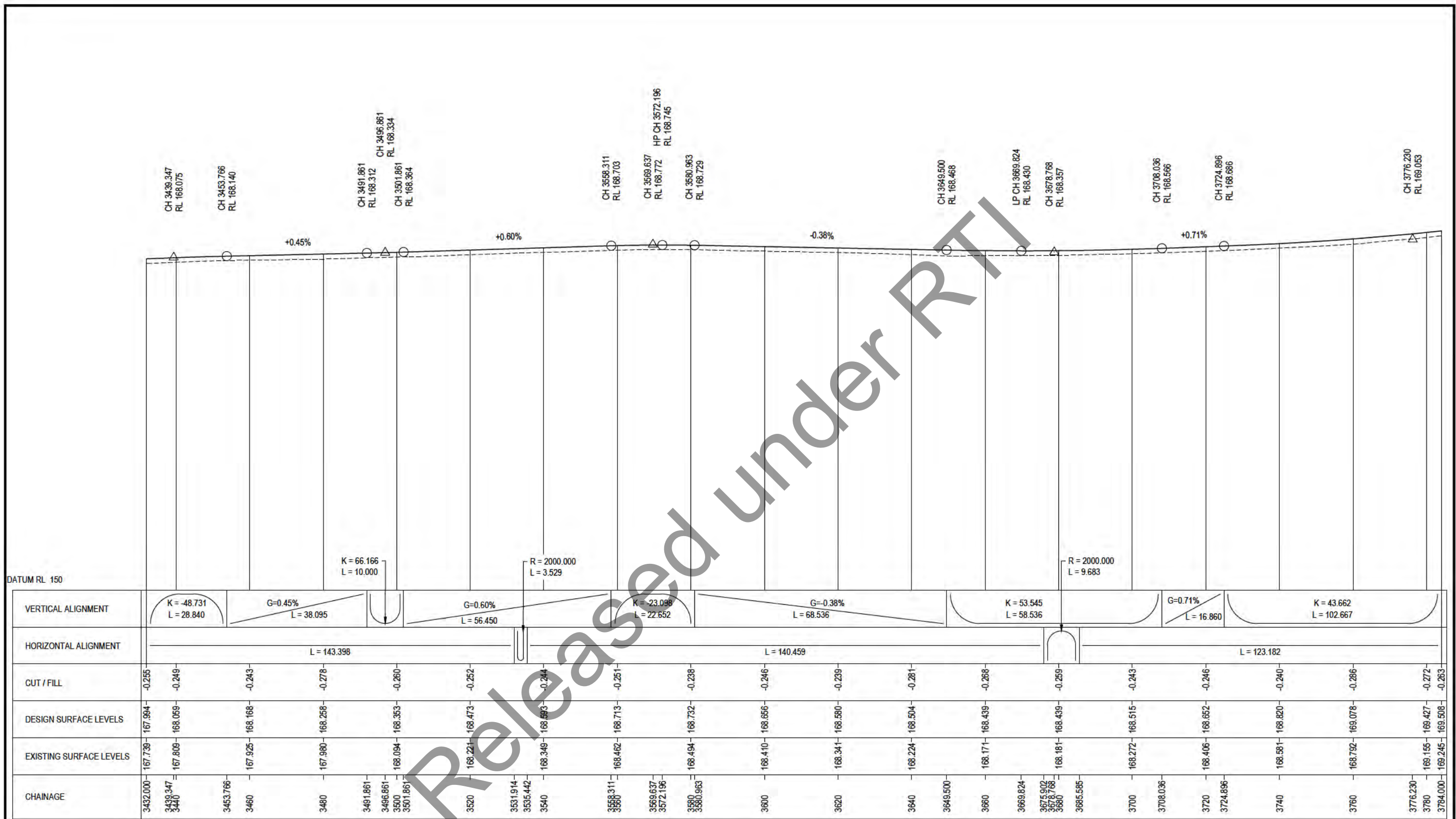
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SCALES H - 1:1000 V - 1:200				DESIGNED REVIEWED		REGISTRATION NUMBER A1701.002			
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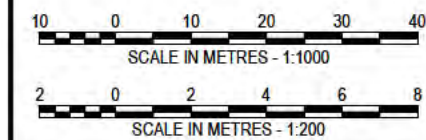
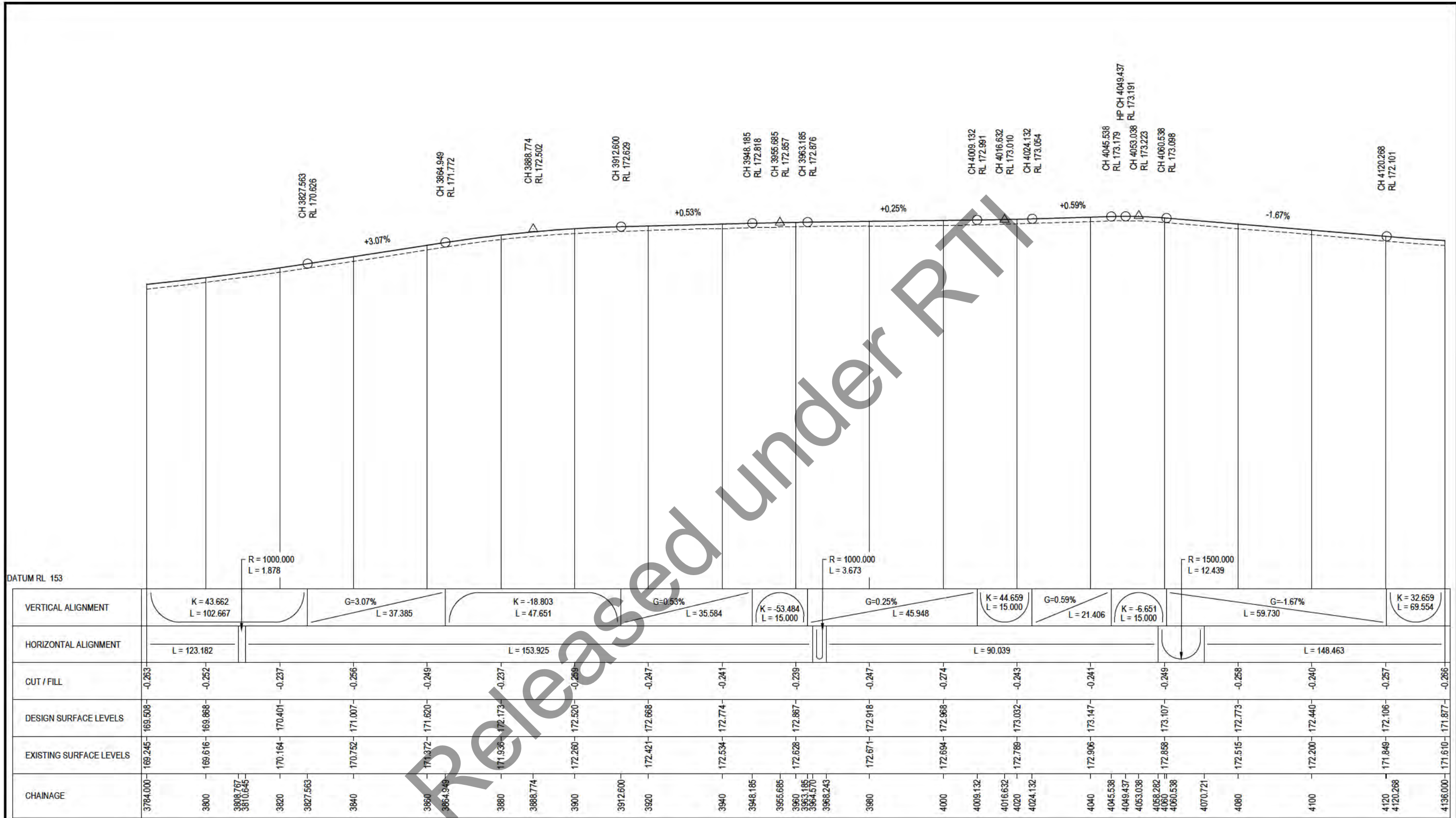
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A PRELIMINARY DESIGN No. Amendment Description A3 original This sheet may be prepared using colour and may be incomplete if copied				L.J.B. 28/07/2023 Initials Date		DESIGNED REVIEWED		LONGITUDINAL SECTION (DESIGN LINE CL94) - DRG 4		REGISTRATION NUMBER A1701.002		REVISION A	



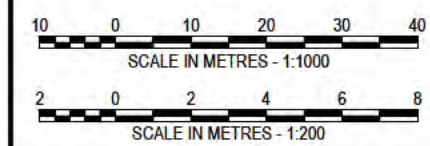
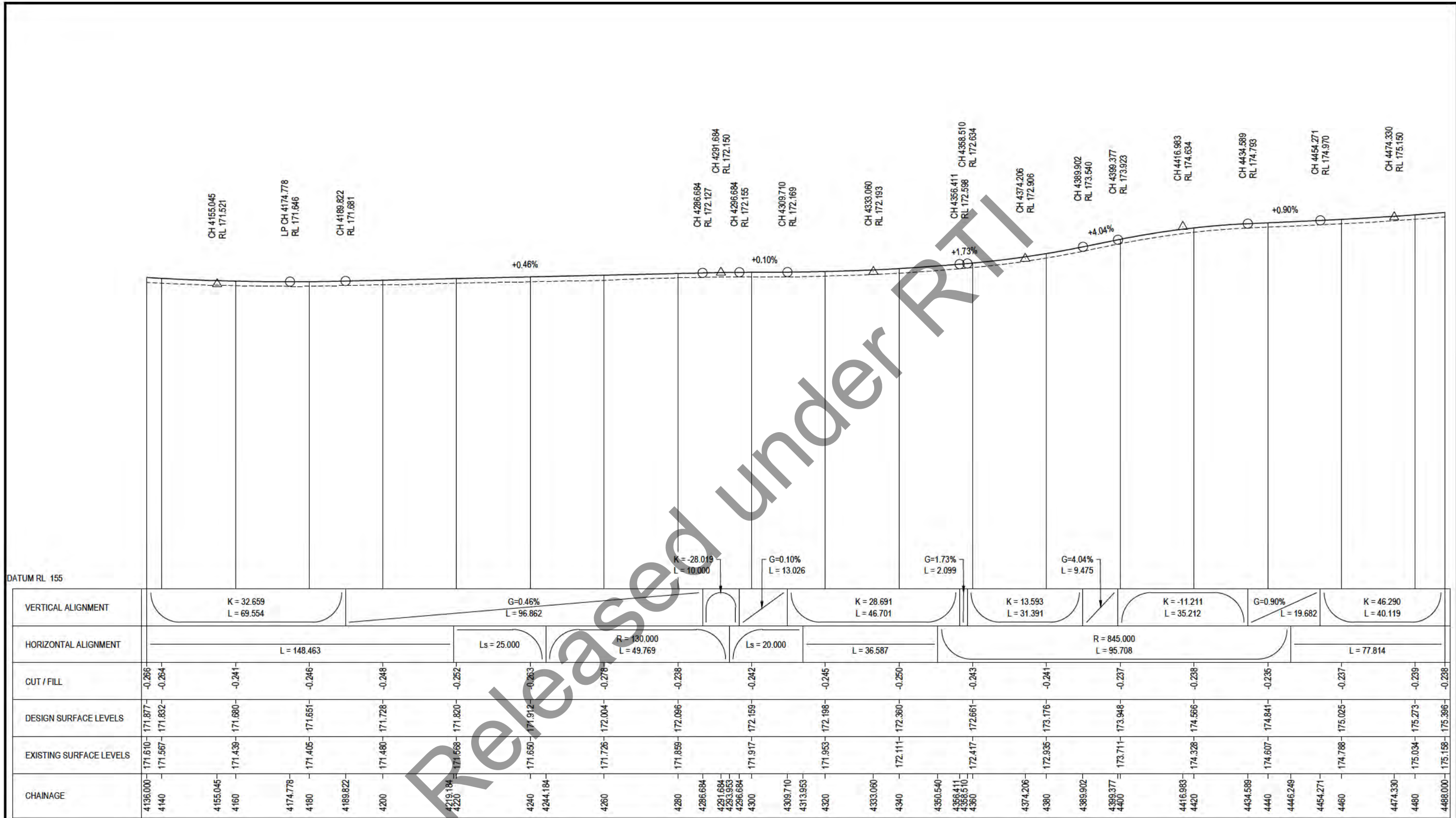
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A				PRELIMINARY DESIGN		L.J.B.		28/07/2023		pitt&sherry		THIRROONAH GOVERNMENT		BIRRALEE MAIN ROAD (A1701)		3521	S-P 20.2000-00-CIV-DRG-2605	28-Jul-23, 2:01 PM	2605
No.				Amendment Description		Initials		Date		LONGITUDINAL SECTION (DESIGN LINE CL94) - DRG 5		REGISTRATION NUMBER		A1701.002		REVISION A			



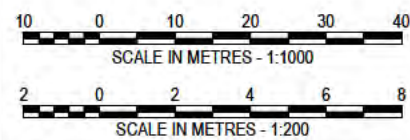
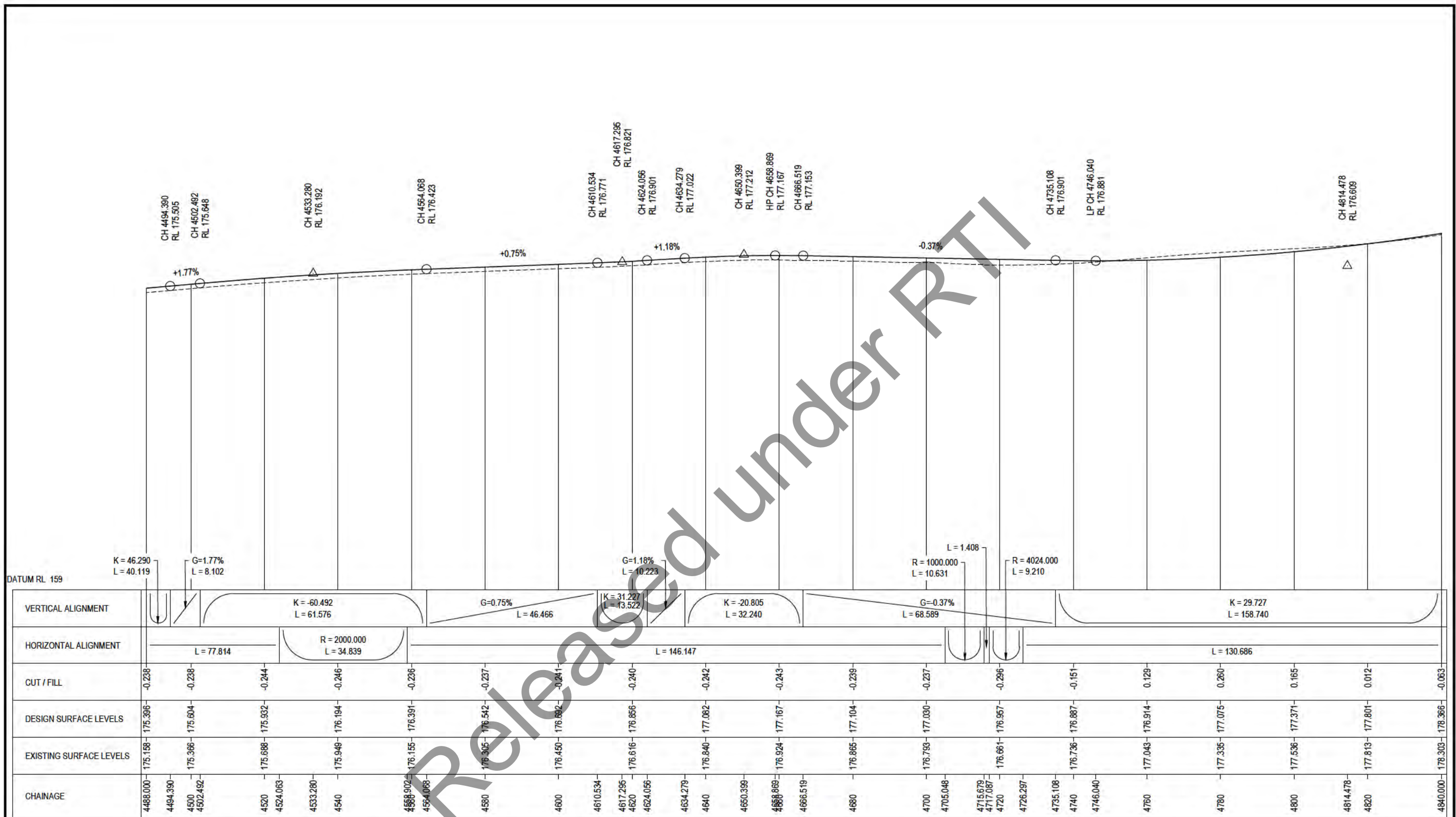
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							BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		REGISTRATION NUMBER A1701.002				REVISION A
							LONGITUDINAL SECTION (DESIGN LINE CL94) - DRG 6						
A3 original		This sheet may be prepared using colour and may be incomplete if copied		Co-ordinate System: MGA-Z55 GDA20		Height Datum: A.H.D.							
A		PRELIMINARY DESIGN		L.J.B.		28/07/2023							
No.		Amendment Description		Initials		Date							



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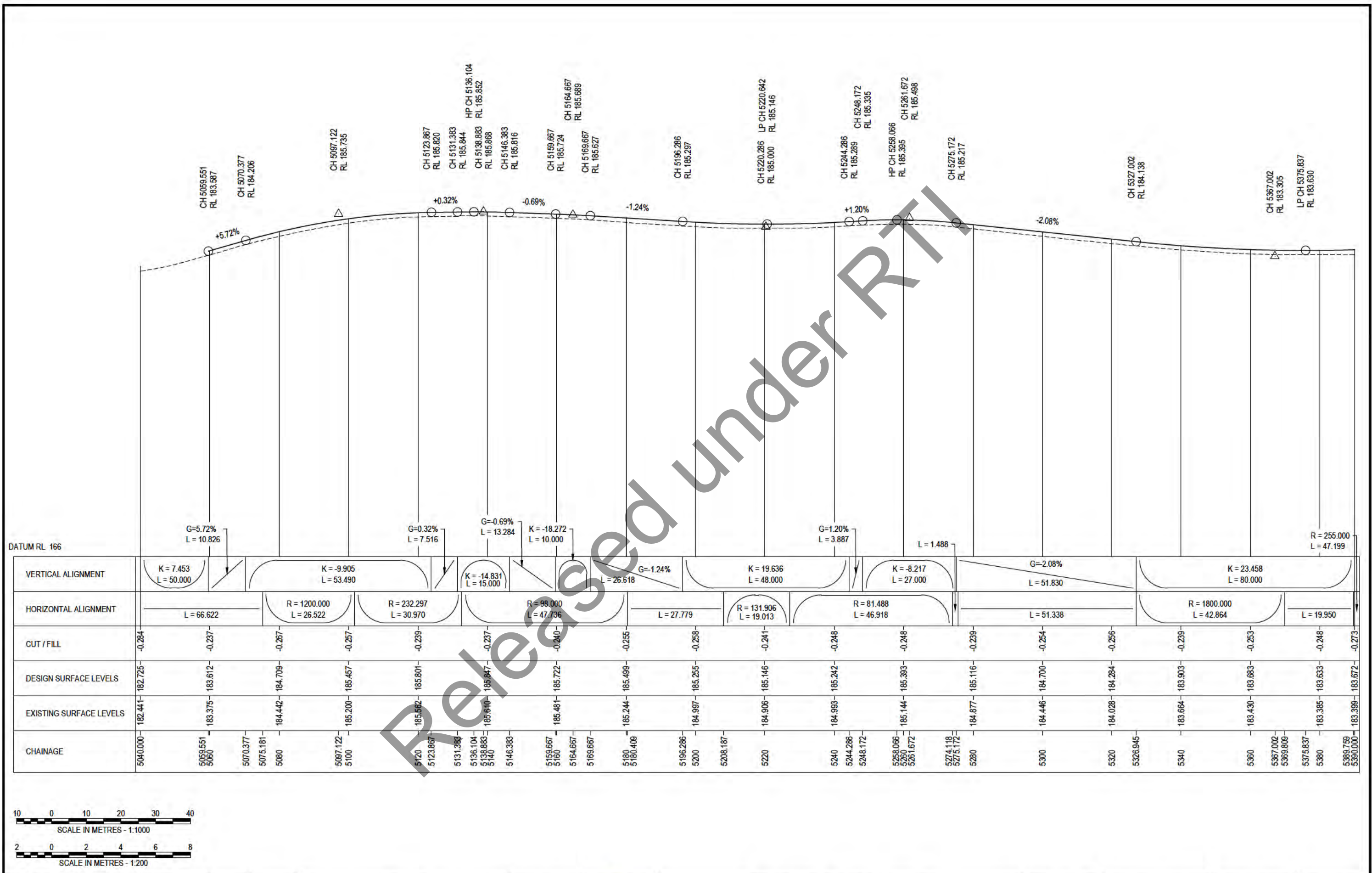
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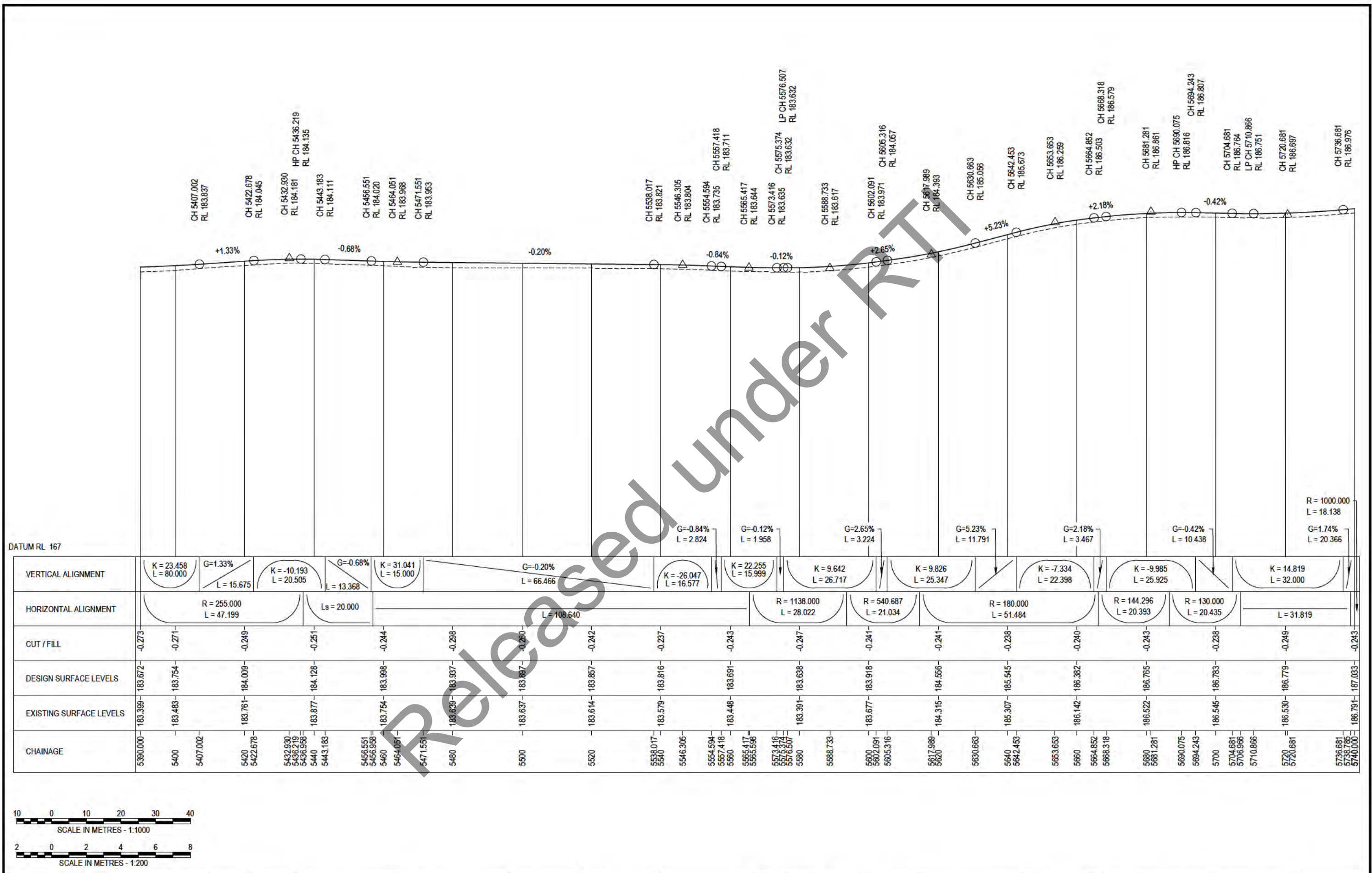
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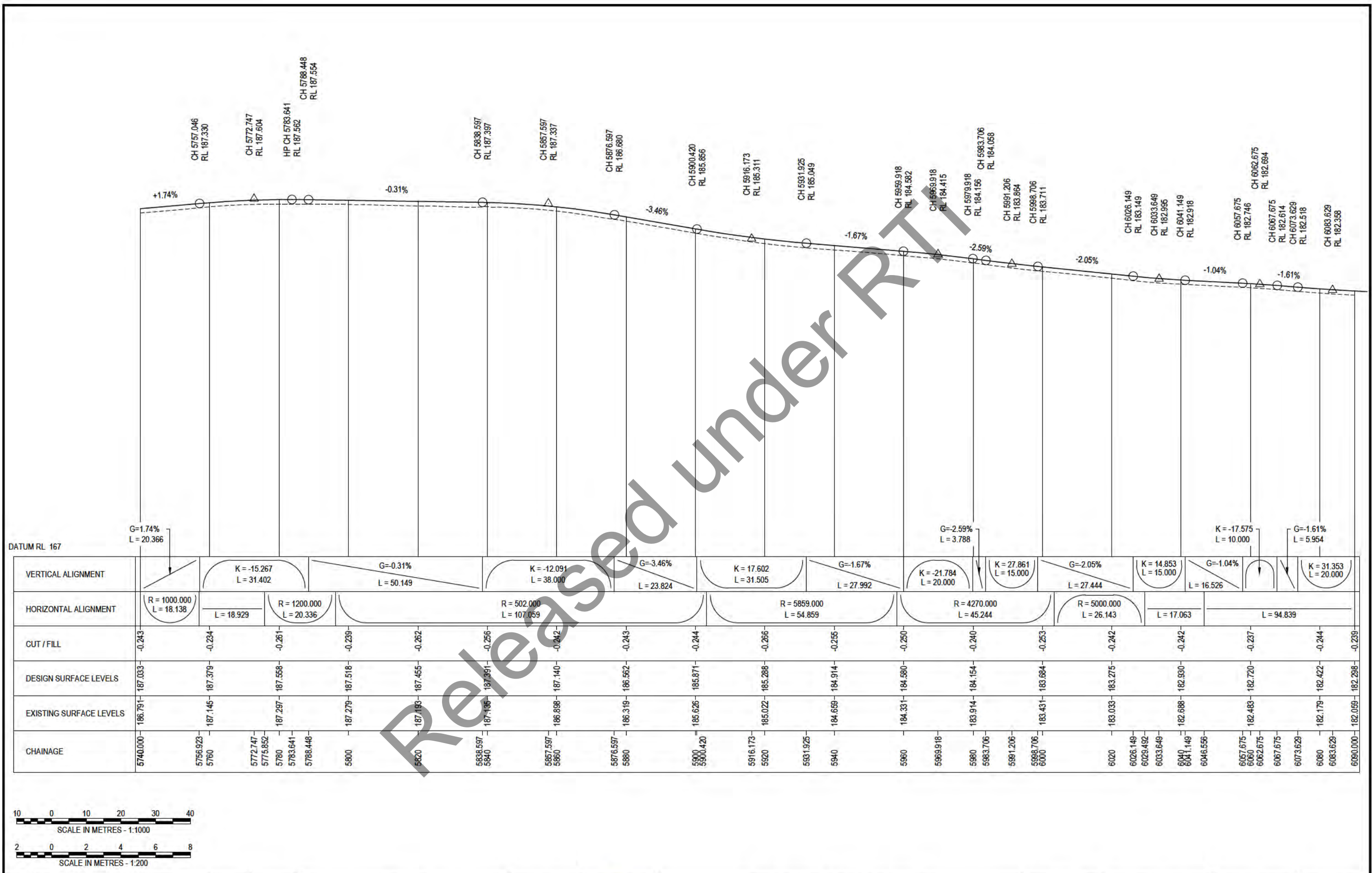
A PRELIMINARY DESIGN No. Amendment Description		L.J.B. Initials Date	
A3 original This sheet may be prepared using colour and may be incomplete if copied		28/07/2023 Date	



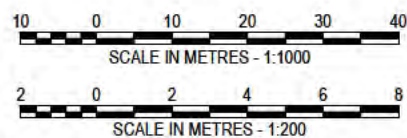
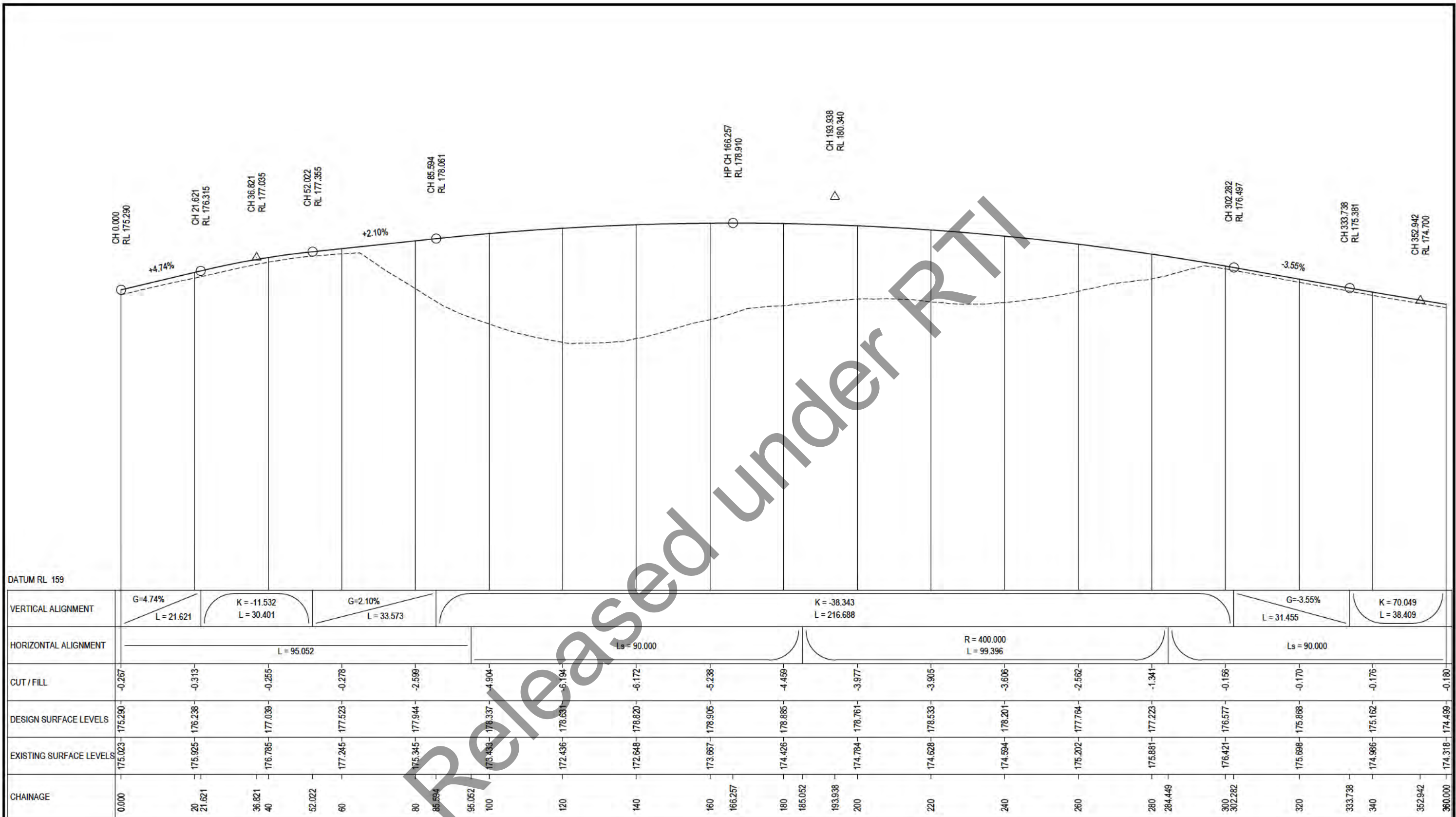
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							BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		REGISTRATION NUMBER A1701.002				REVISION A		
A	PRELIMINARY DESIGN	L.J.B.	28/07/2023				DESIGNED REVIEWED		LONGITUDINAL SECTION (DESIGN LINE CL94) - DRG 10						
No.	Amendment Description	Initials	Date												
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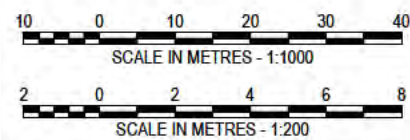
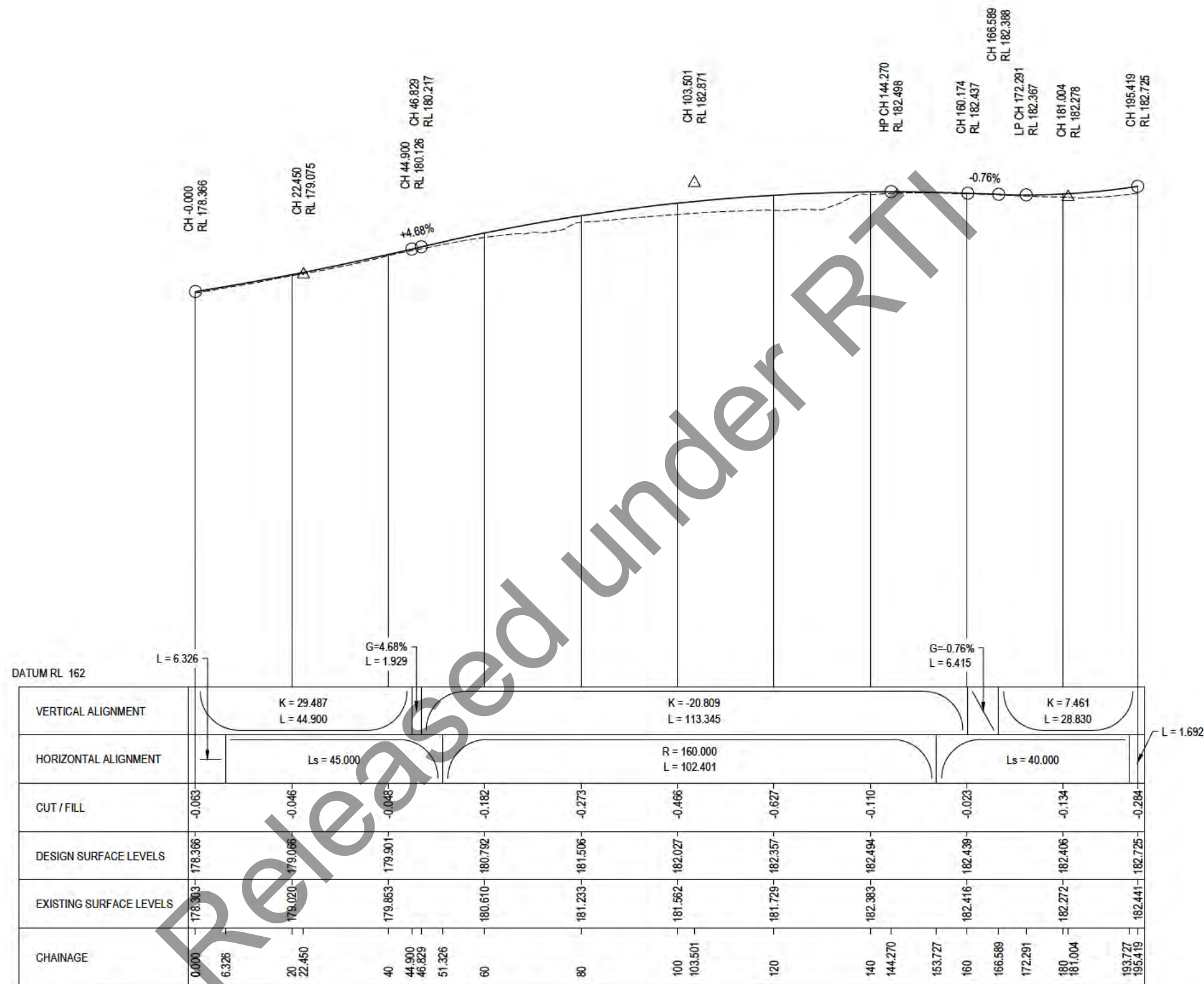
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A PRELIMINARY DESIGN		L.J.B.		28/07/2023								BIRRALEE MAIN ROAD (A1701)									
No.		Amendment Description		Initials		Date						WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD									
												ROADWORKS (PACKAGE 2)									
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																REGISTRATION NUMBER					
																A1701.002					
																				REVISION A	



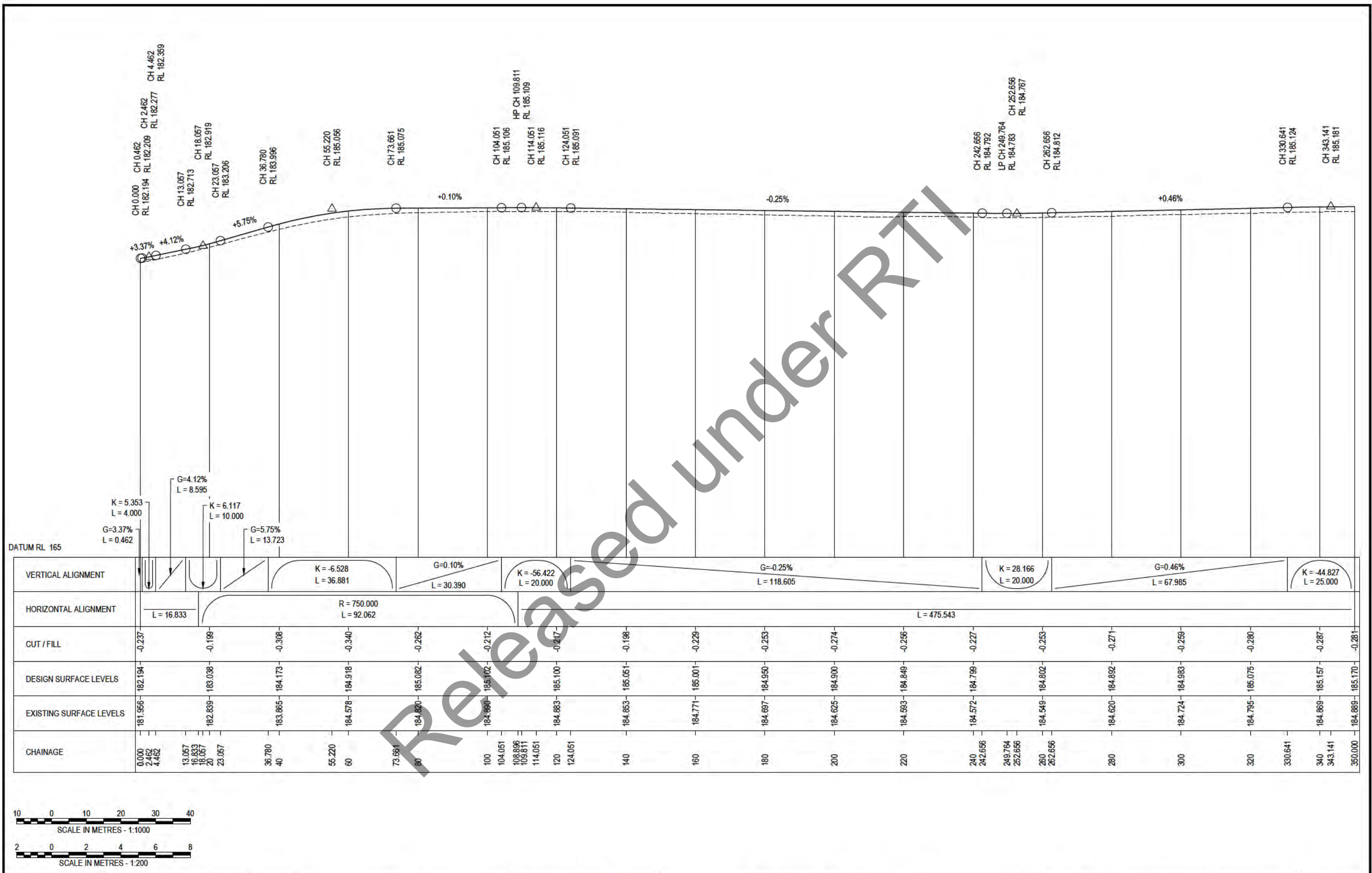
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A PRELIMINARY DESIGN				L.J.B.		28/07/2023								BIRRALEE MAIN ROAD (A1701)									
No. Amendment Description				Initials		Date								WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD									
														ROADWORKS (PACKAGE 2)									
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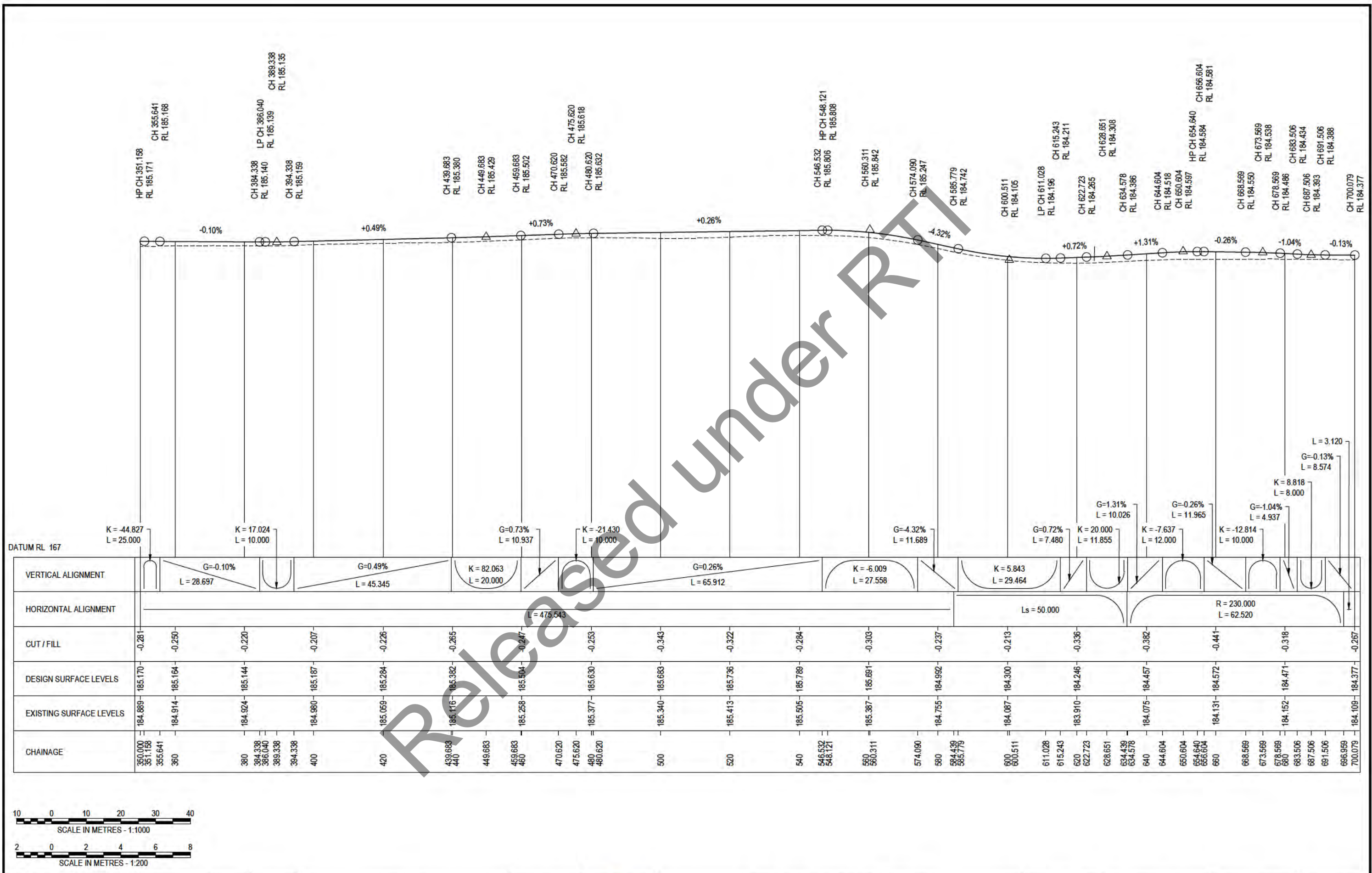
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No.				Amendment Description				Initials		Date		DESIGNED		REVIEWED		WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		3521		S-P.20.2000-00-CIV-DRG-2621		28-Jul-23, 2:01 PM		2621	
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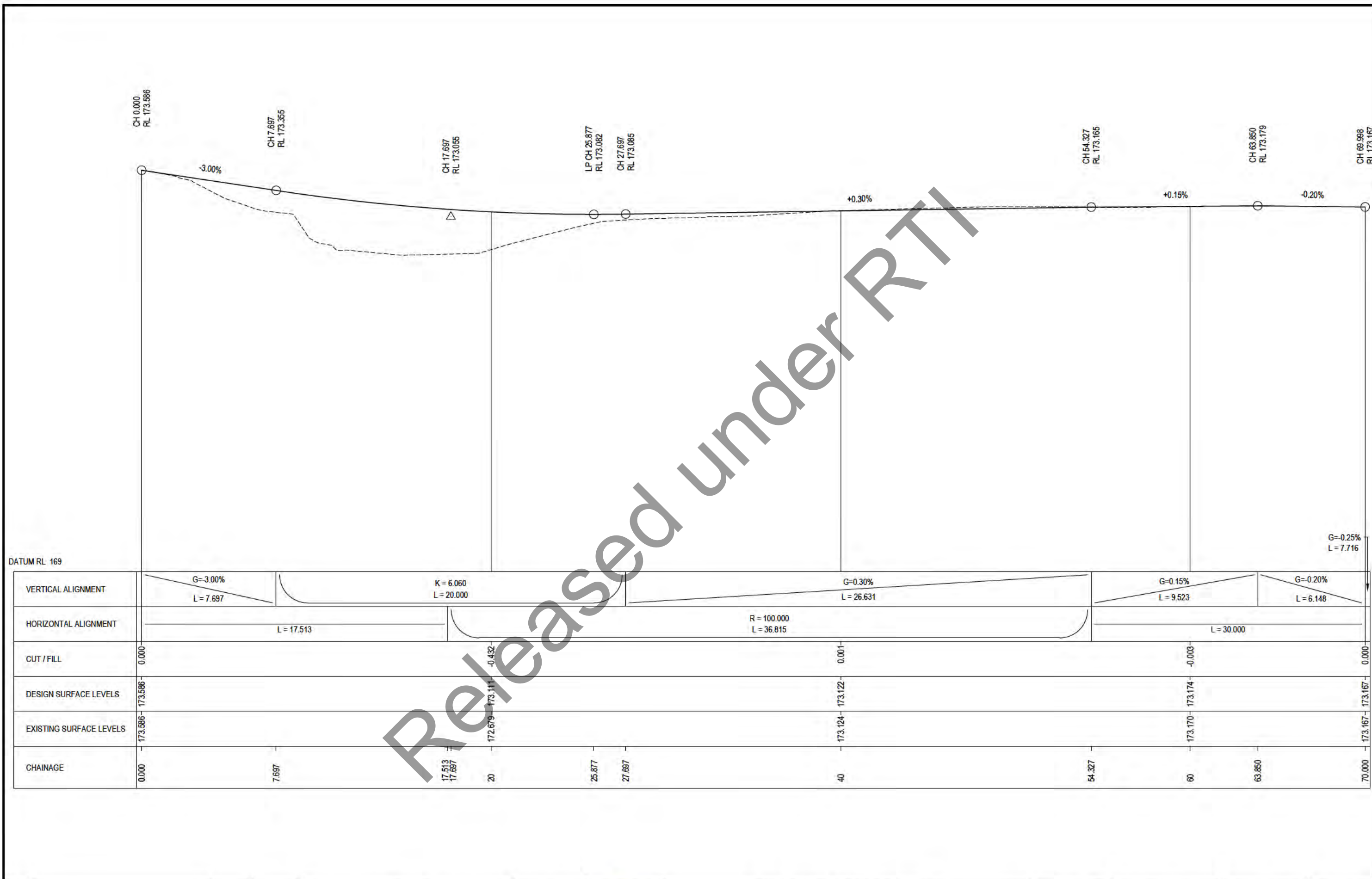
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A PRELIMINARY DESIGN No. Amendment Description				DESIGNED REVIEWED				REGISTRATION NUMBER A1701.002			
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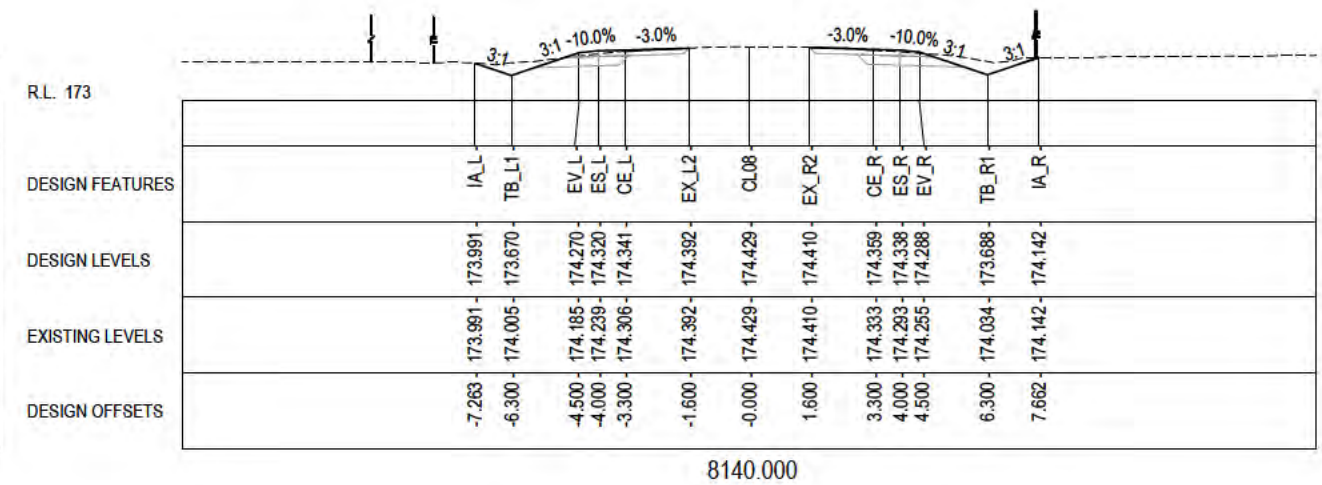
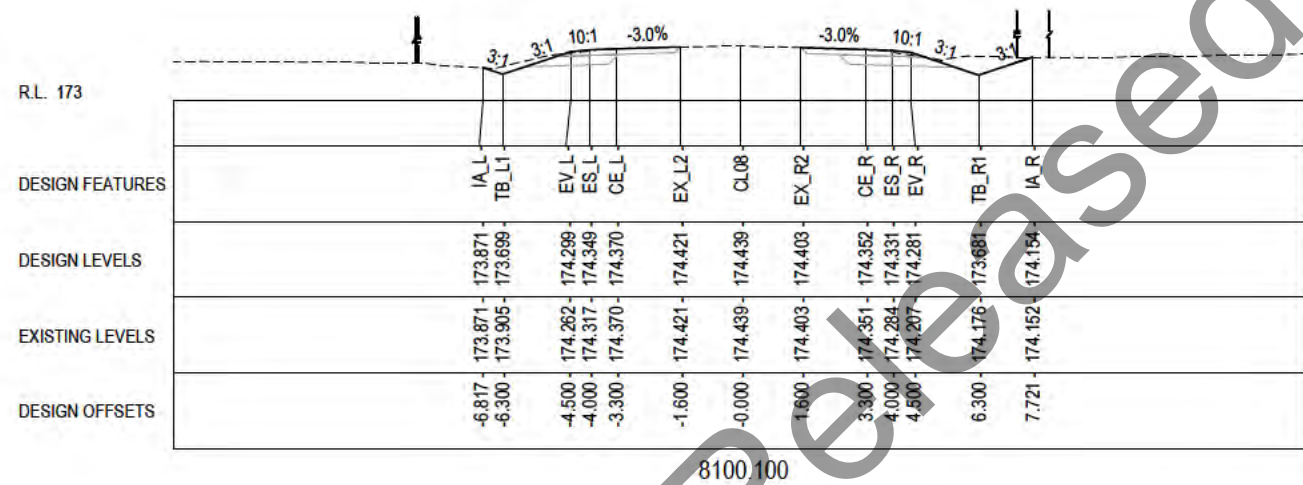
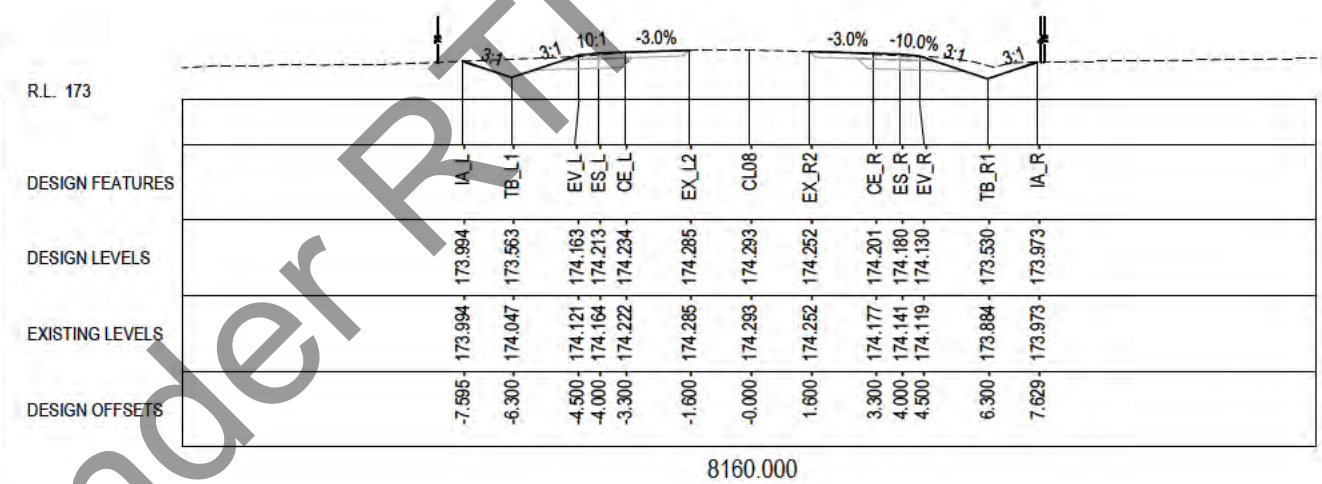
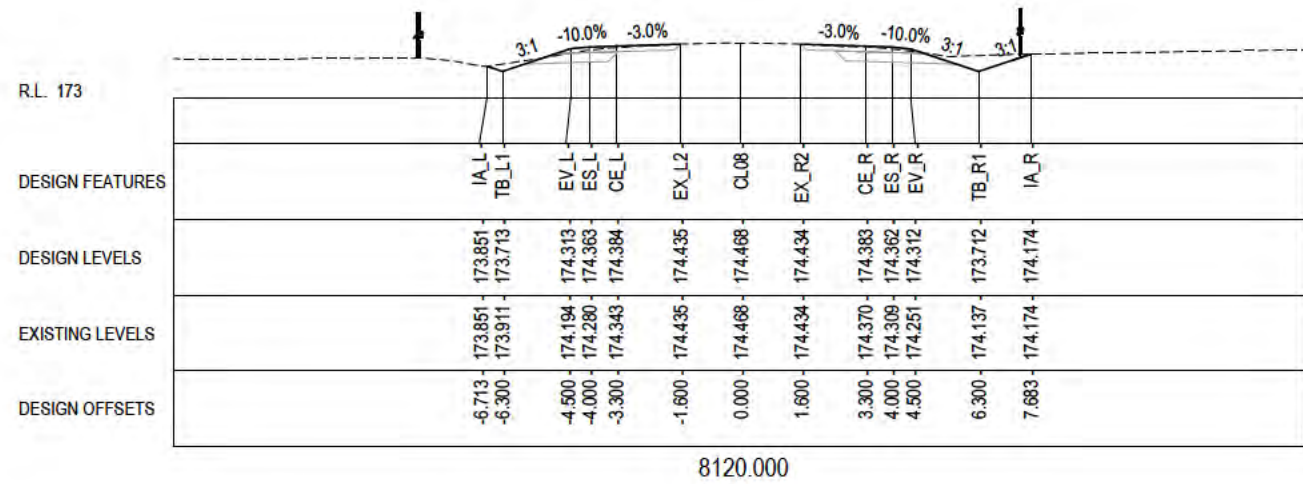
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							BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		3521	S-P.20.2000-00-CIV-DRG-2641	28-Jul-23, 2:02 PM	2641
A	PRELIMINARY DESIGN	L.J.B.	28/07/2023						REGISTRATION NUMBER			
No.	Amendment Description	Initials	Date				DESIGNED		A1701.002		REVISION A	
A3 original		This sheet may be prepared using colour and may be incomplete if copied		Co-ordinate System: MGA-Z55 GDA20		Height Datum: A.H.D.		LONGITUDINAL SECTION (DESIGN LINE CL13) - DRG 1				

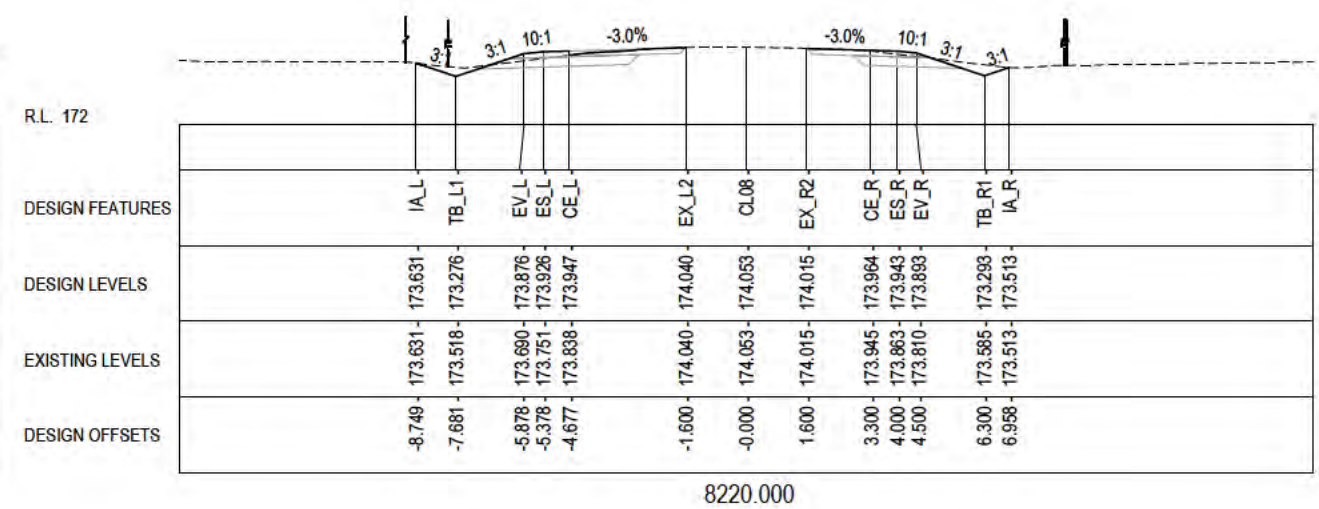
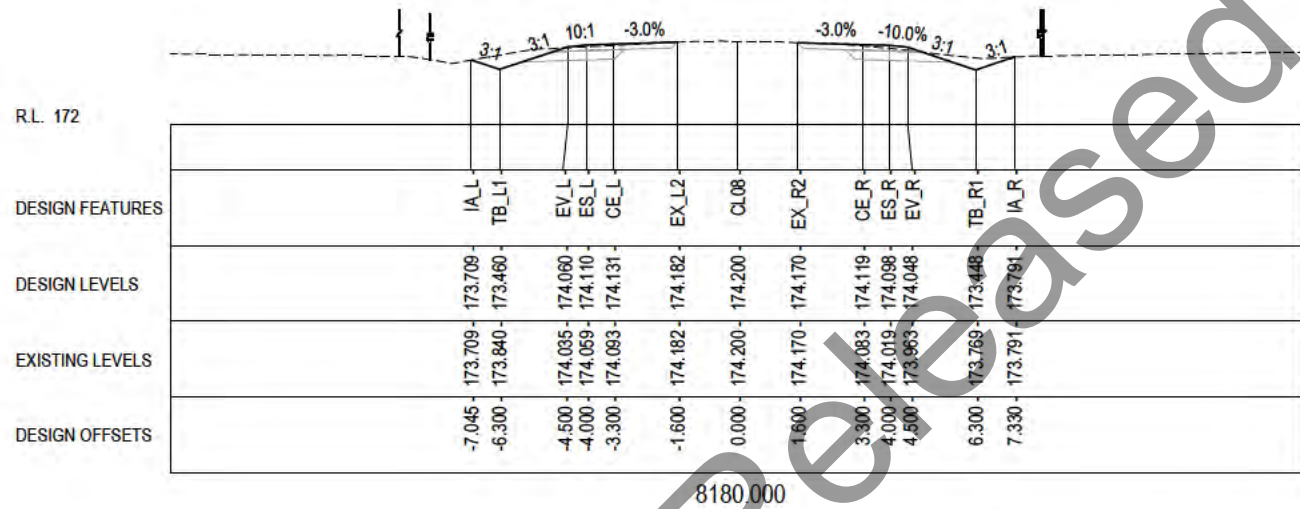
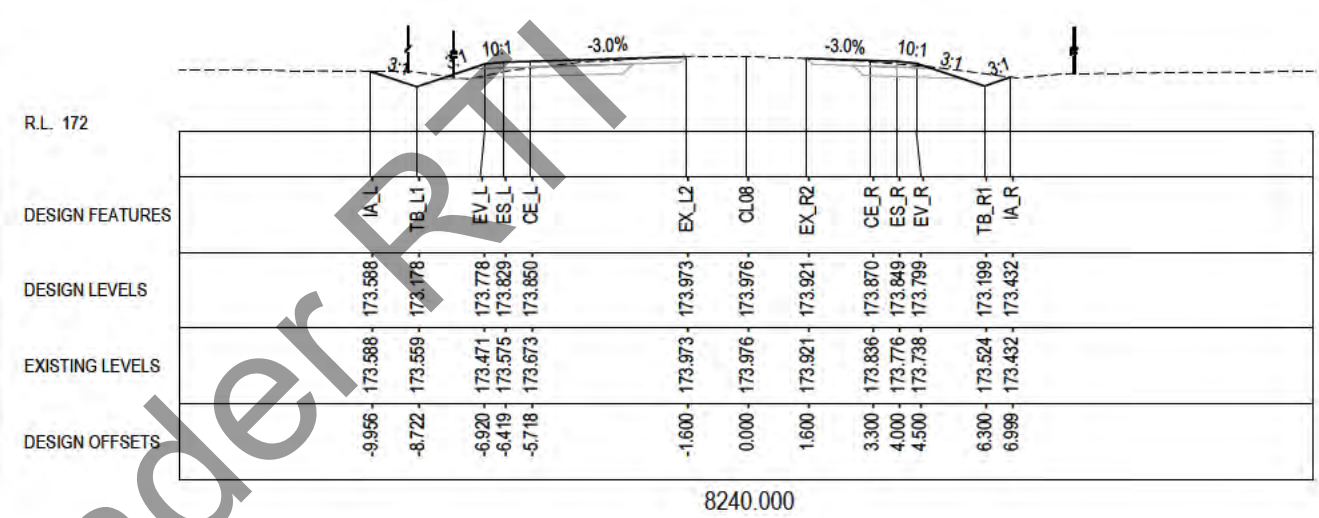
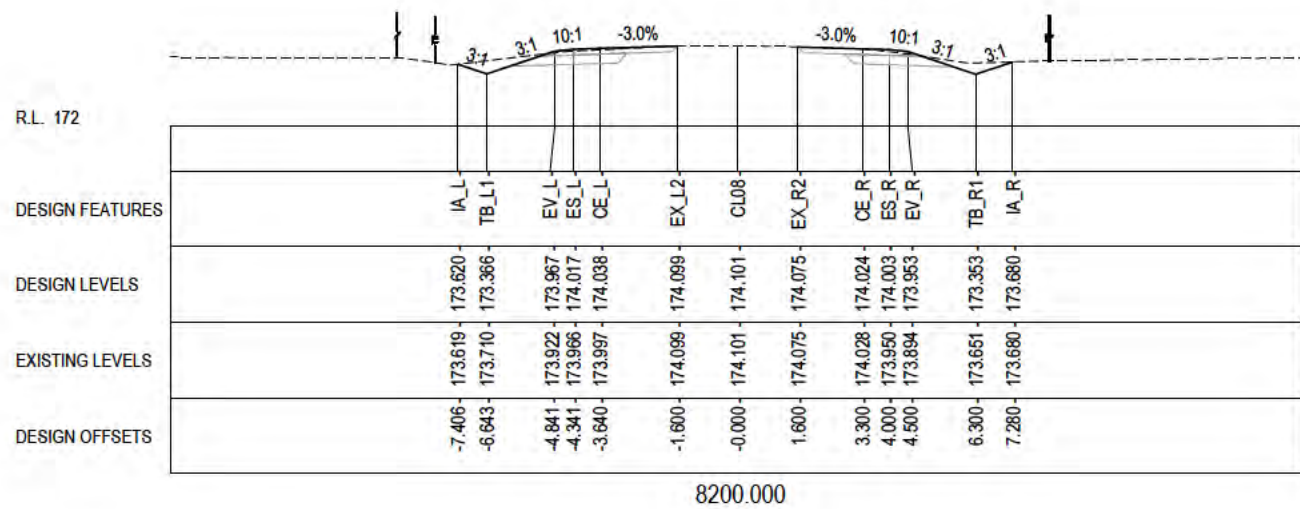


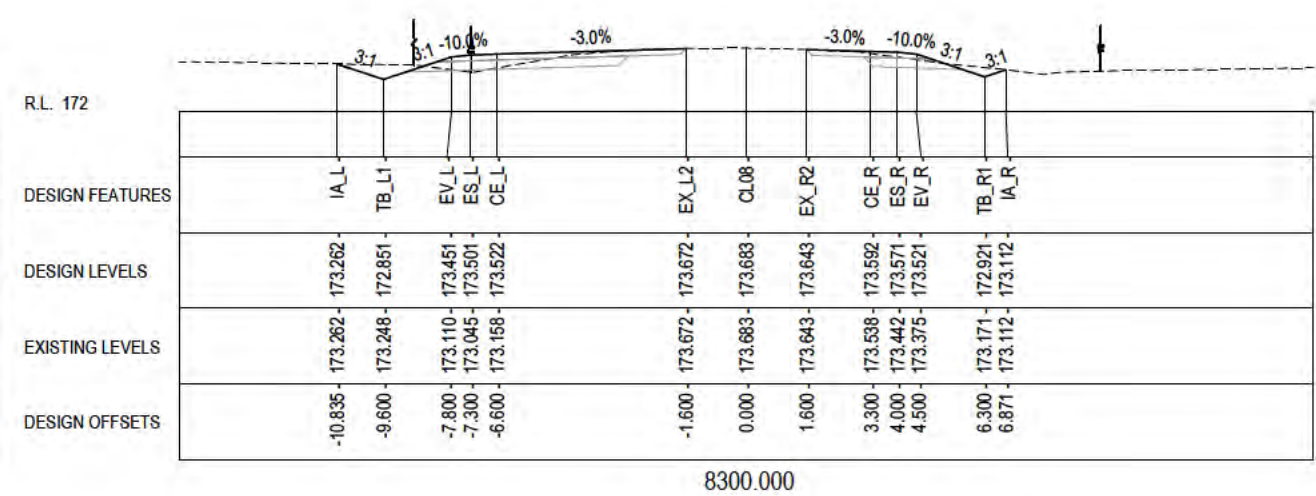
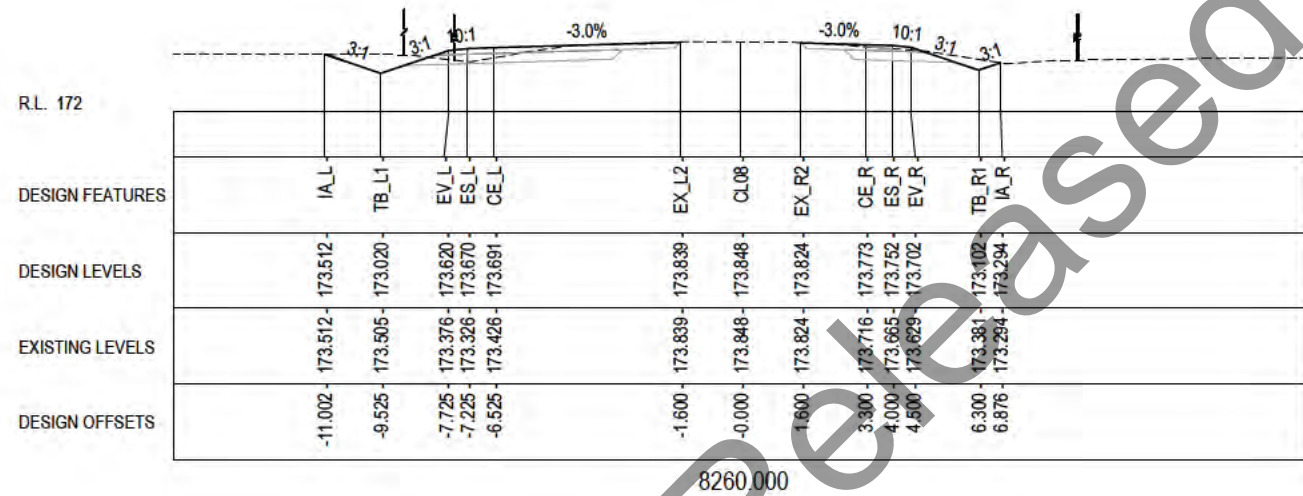
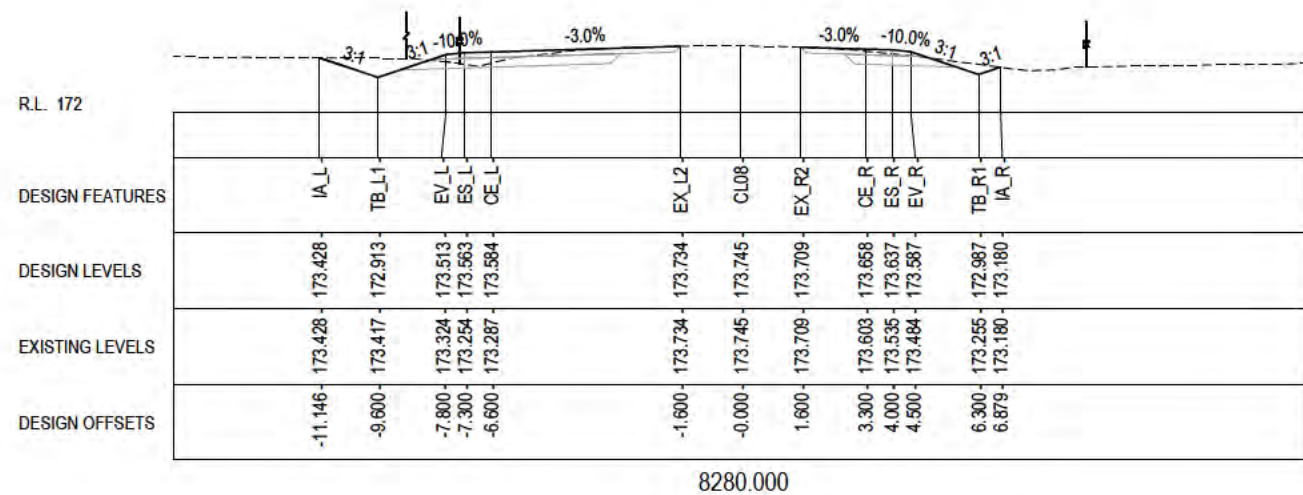
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							BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		REGISTRATION NUMBER A1701.002				REVISION A
A	PRELIMINARY DESIGN	L.J.B.	28/07/2023										
No.	Amendment Description	Initials	Date				DESIGNED		LONGITUDINAL SECTION (DESIGN LINE CL13) - DRG 2				
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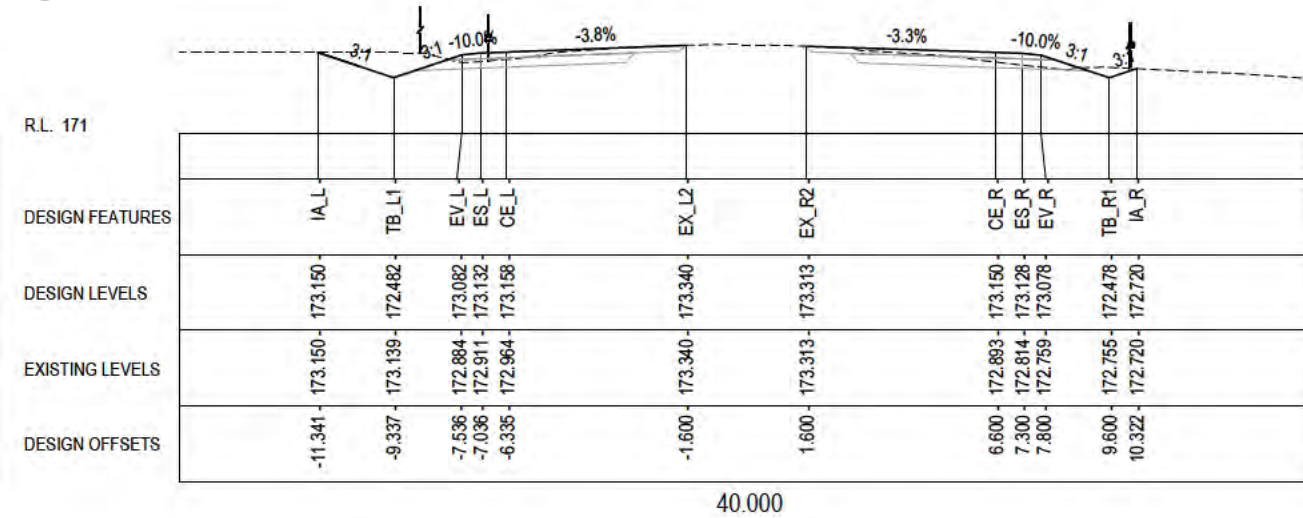
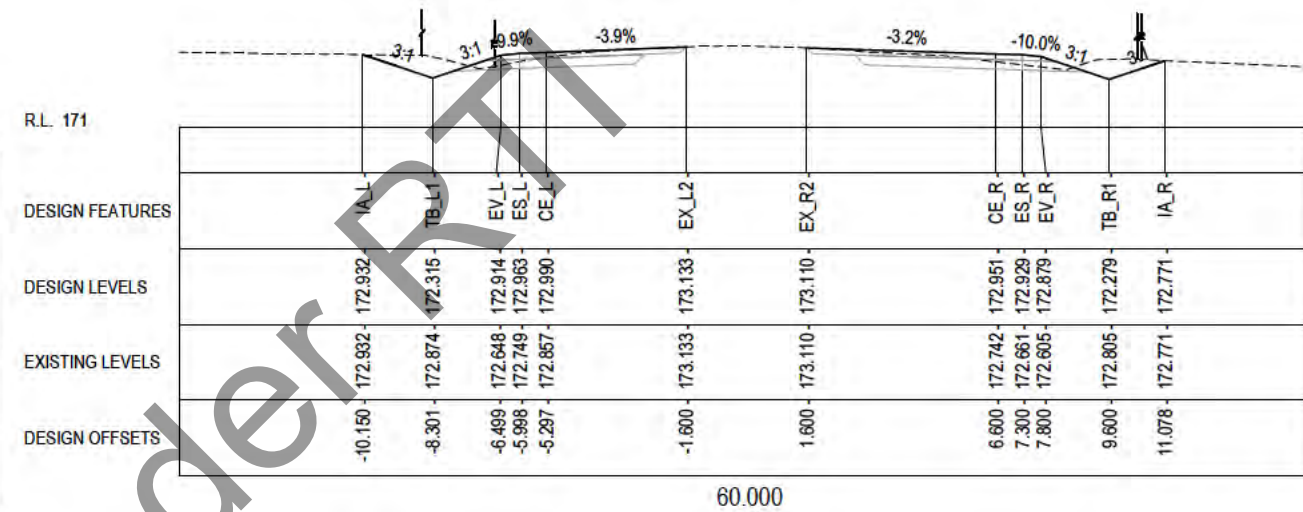
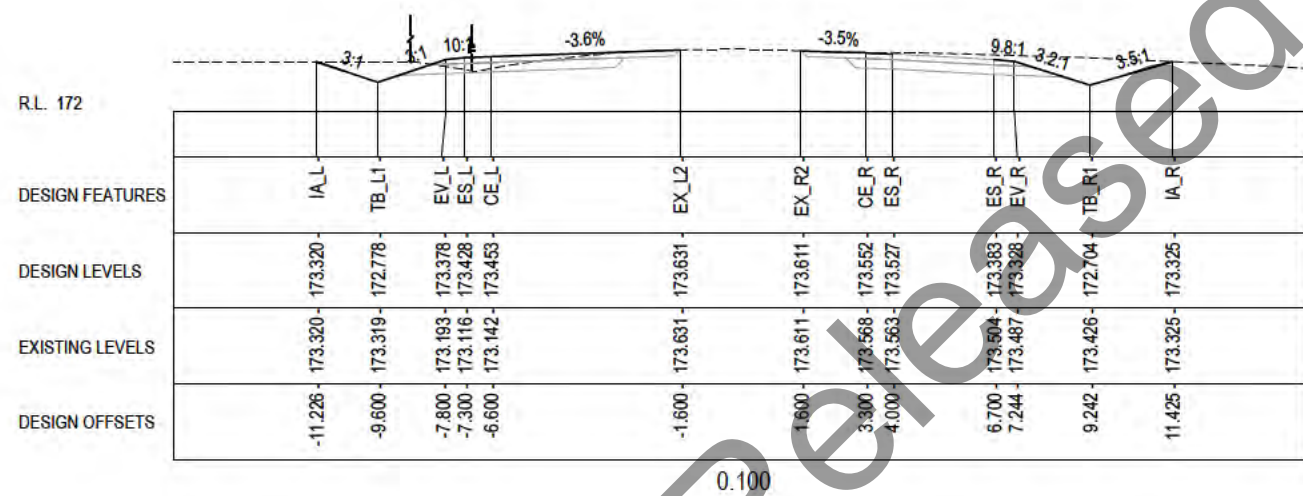
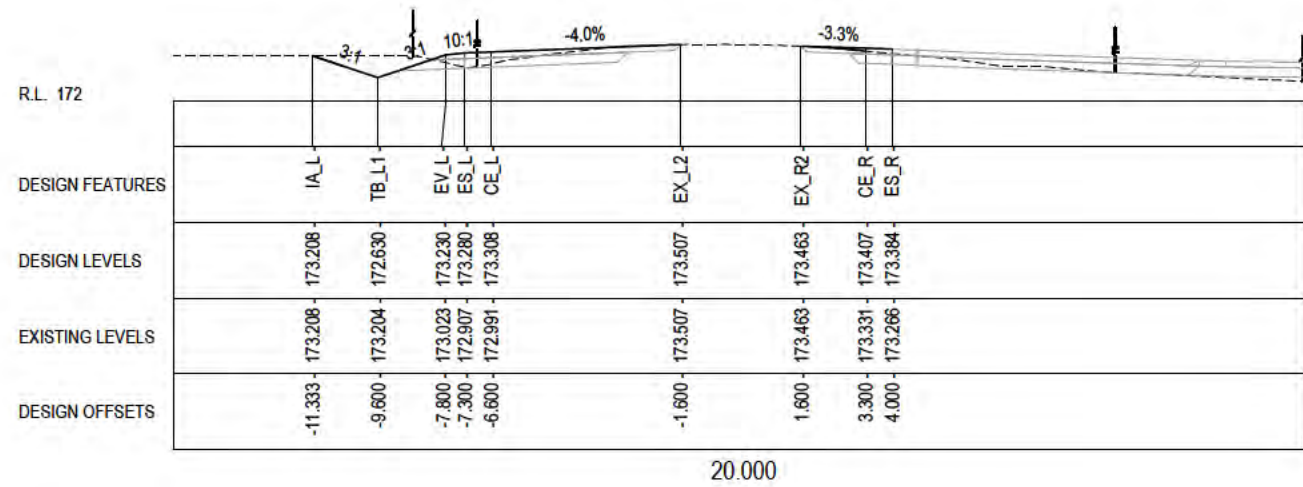


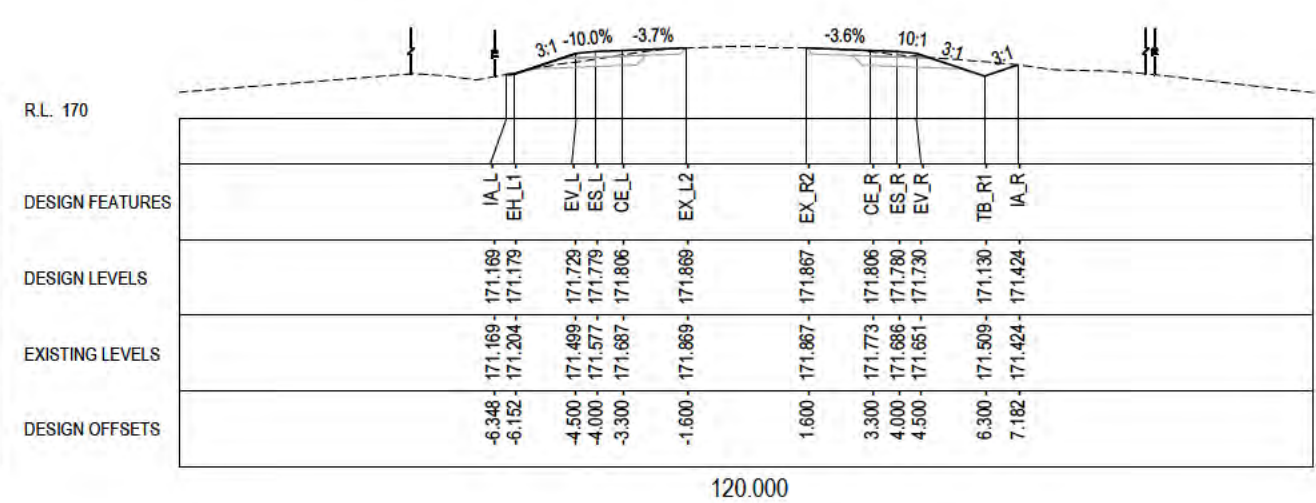
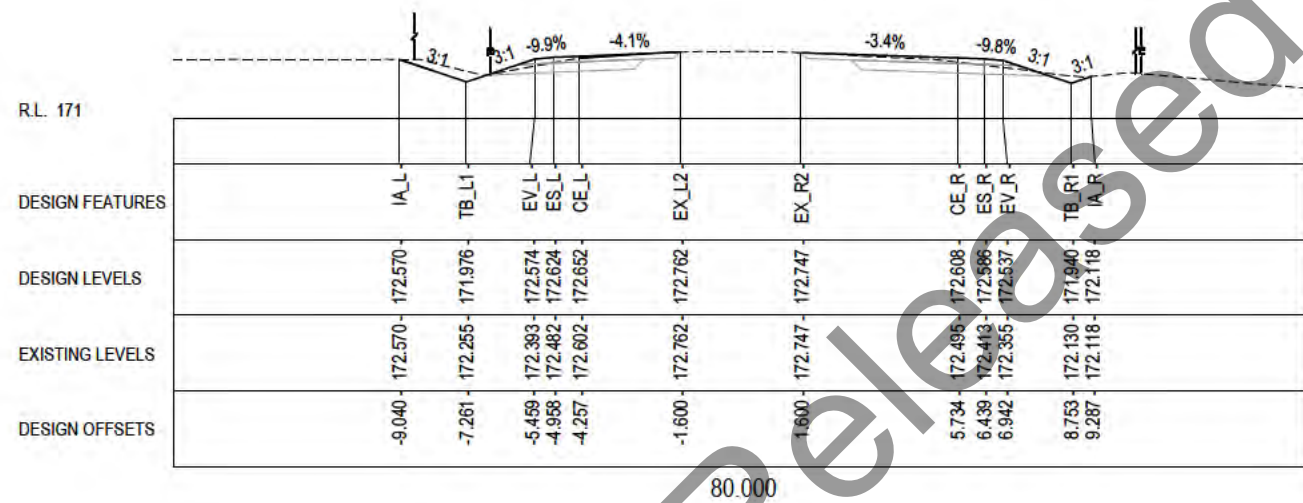
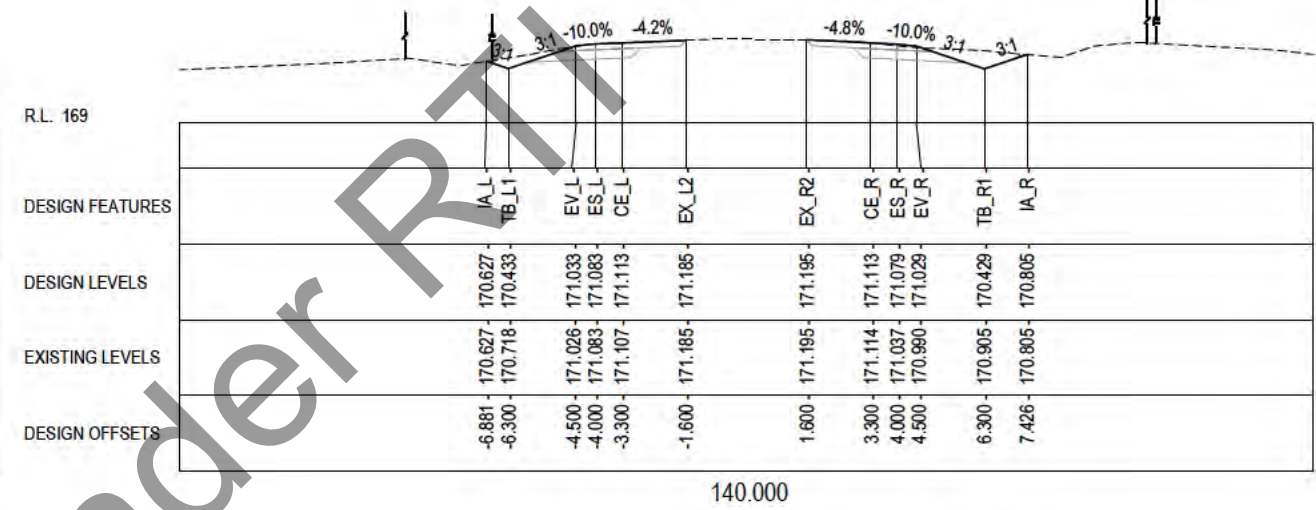
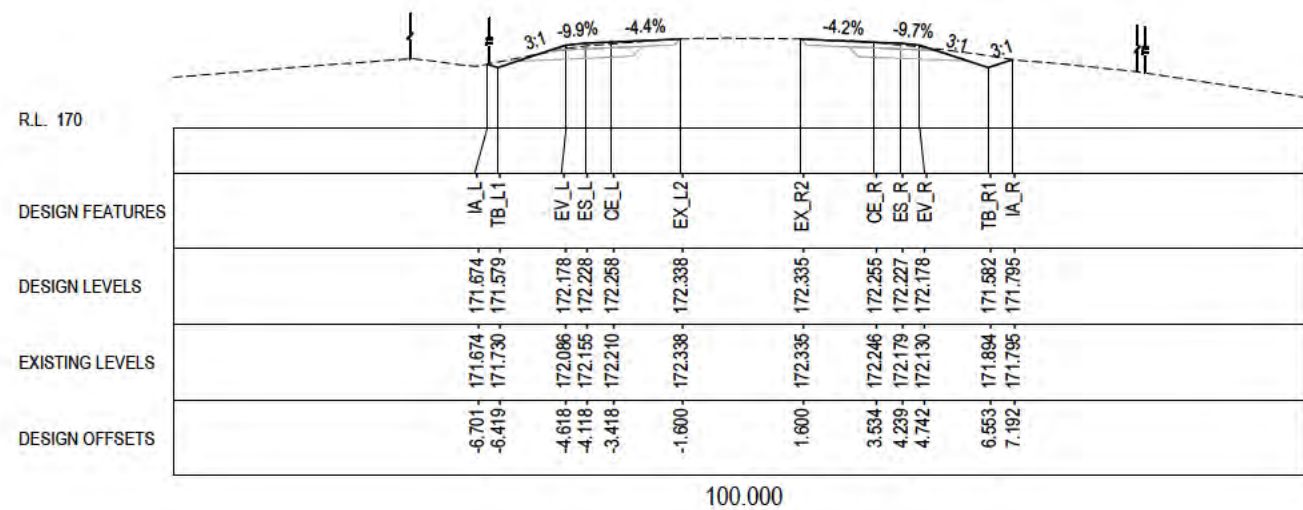
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A		PRELIMINARY DESIGN		L.J.B.		28/07/2023		DESIGNED		WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		REGISTRATION NUMBER A1701.002				REVISION A
No.		Amendment Description		Initials		Date		REVIEWED		LONGITUDINAL SECTION (DESIGN LINE CL21) - DRG 1						
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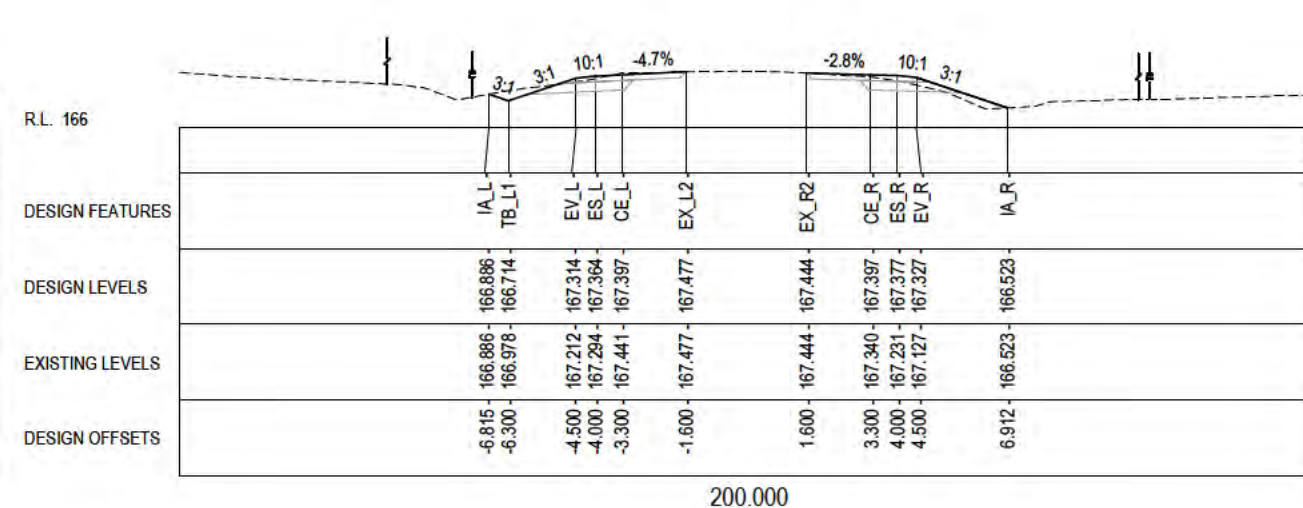
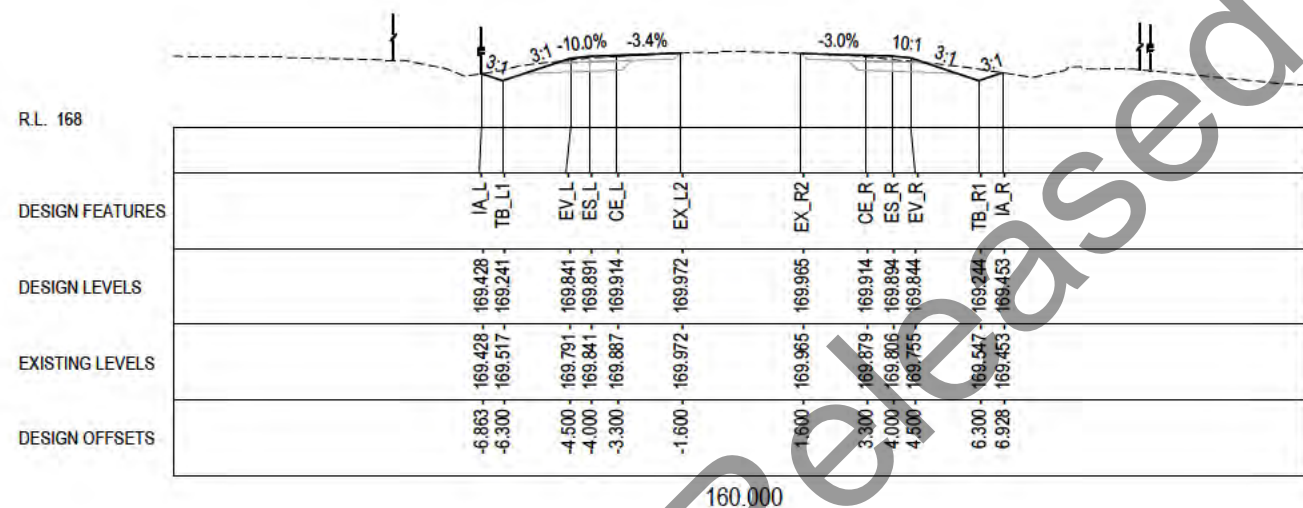
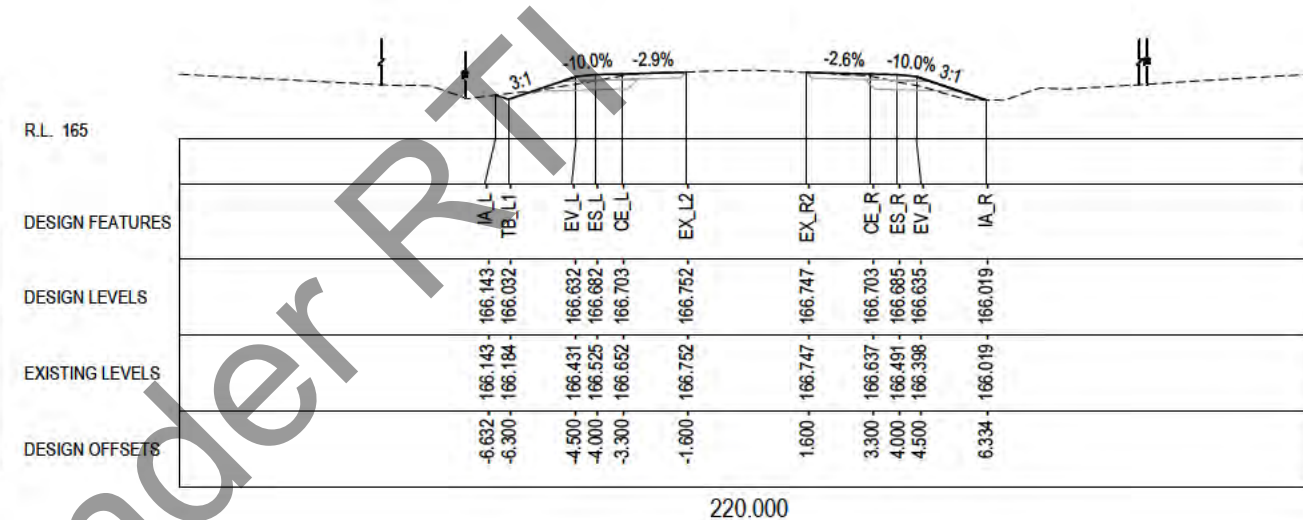
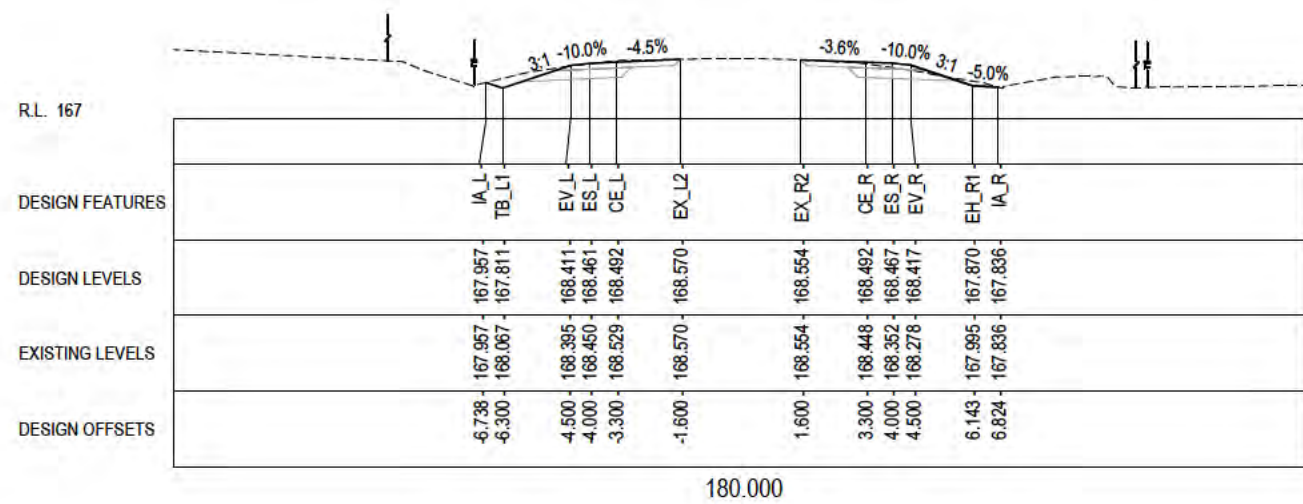


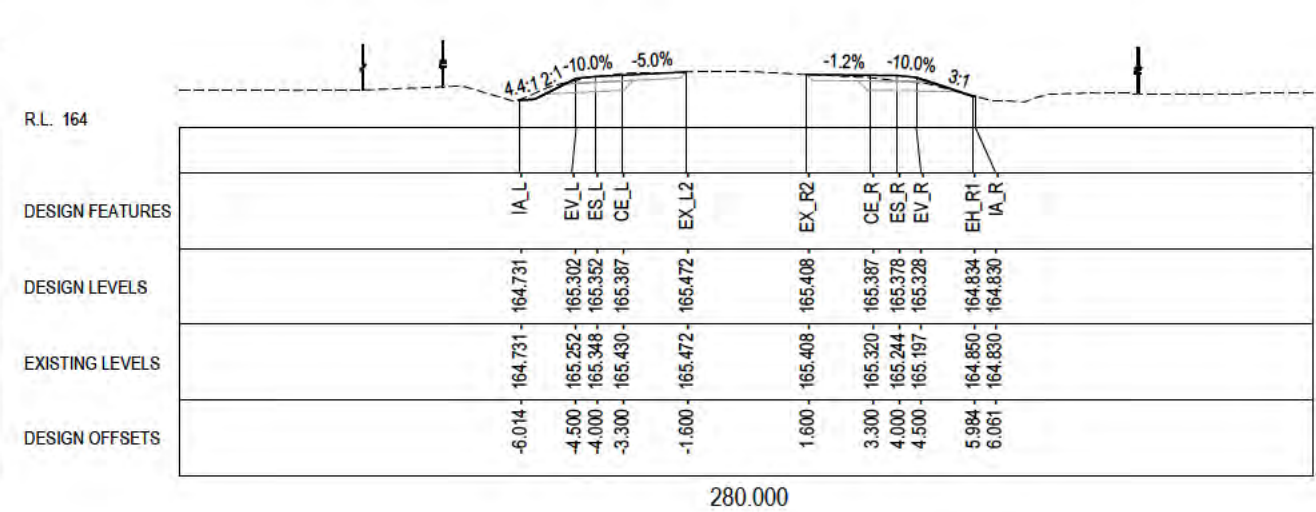
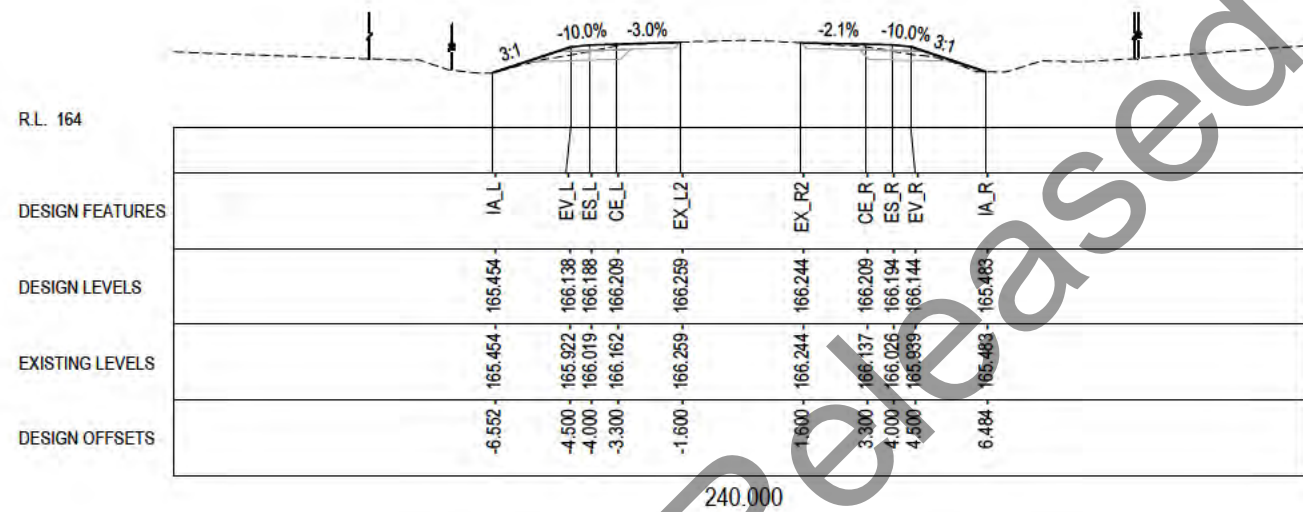
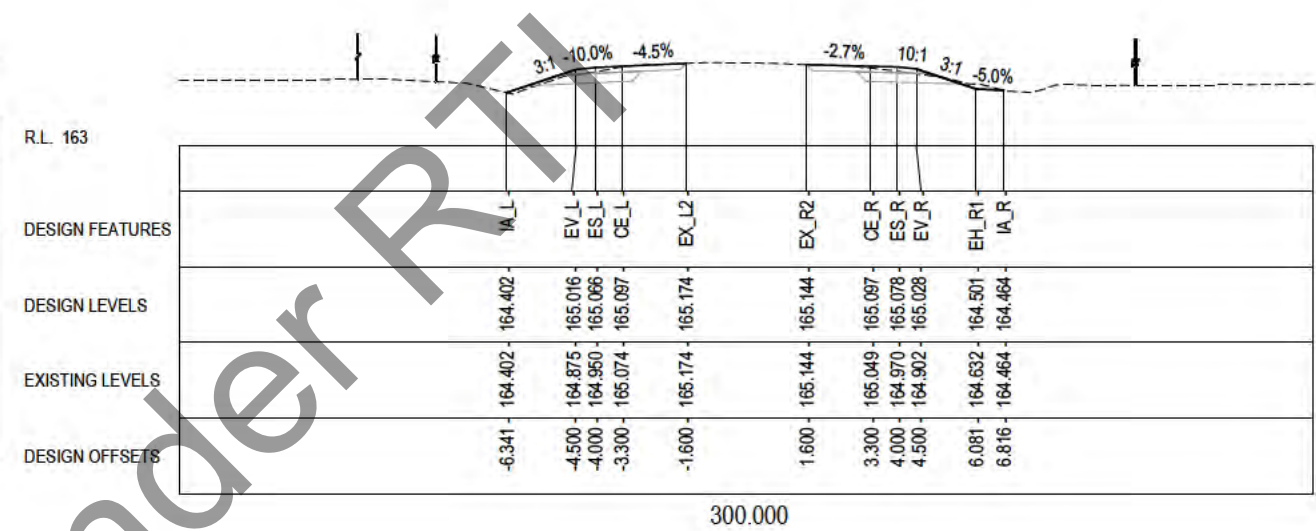
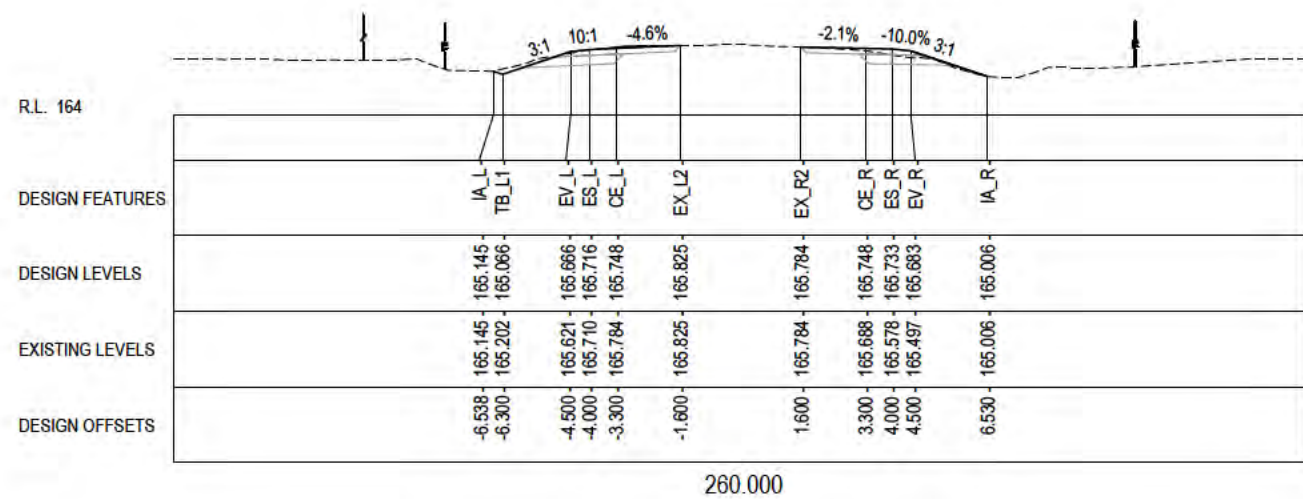


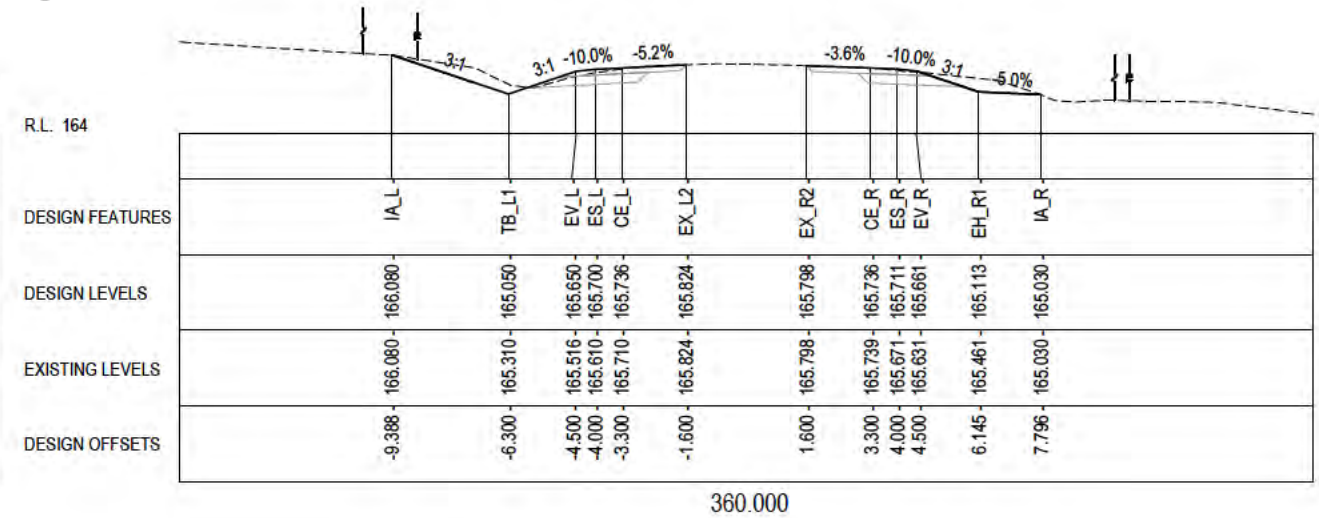
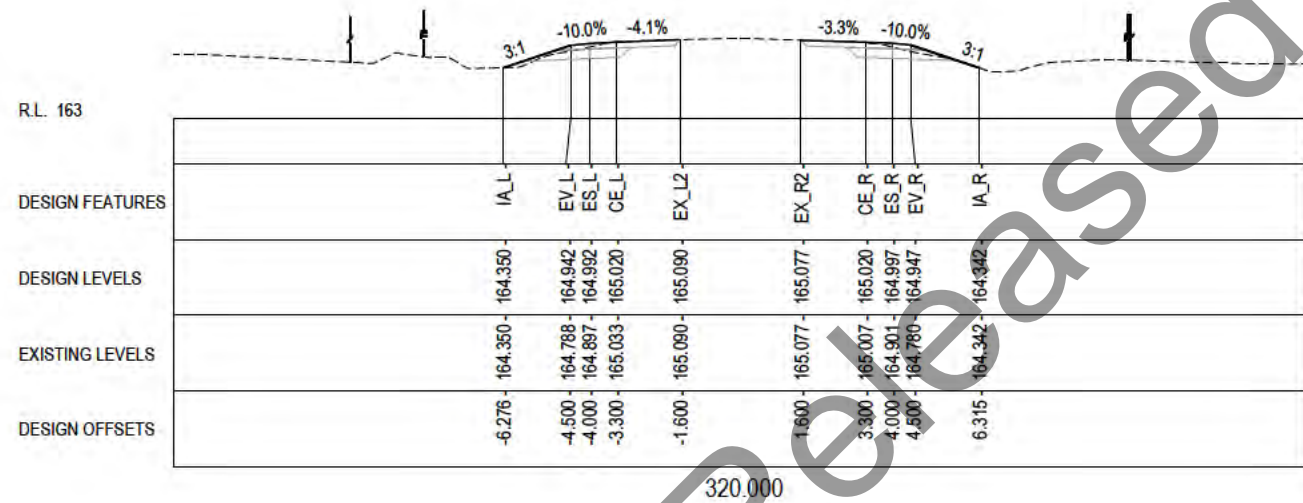
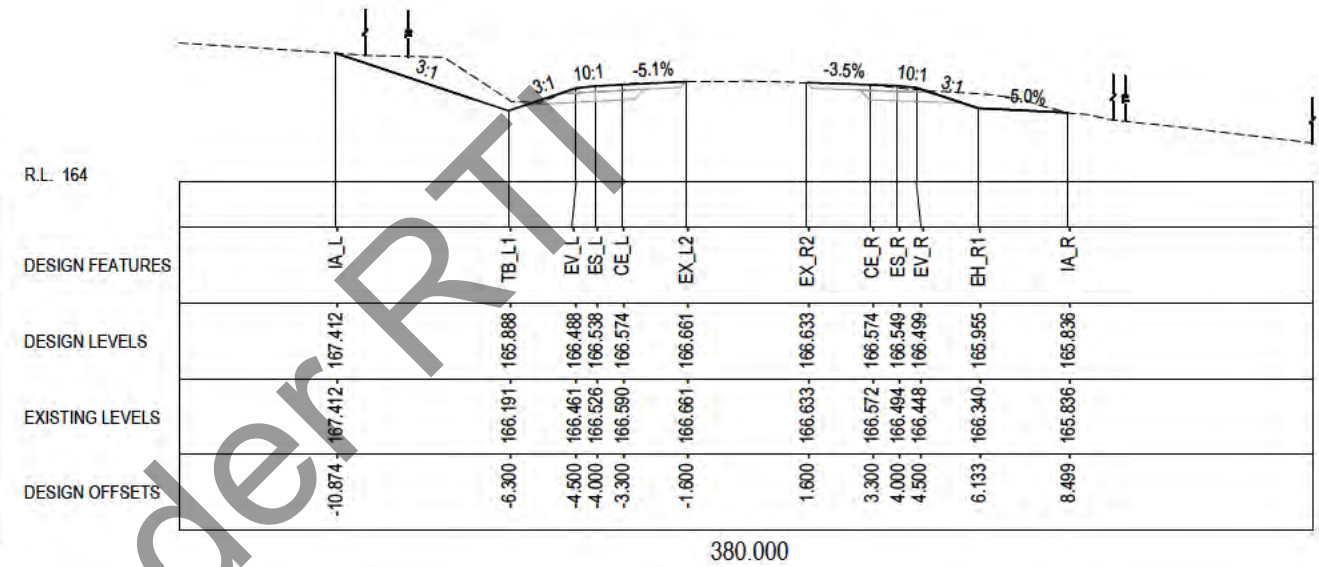
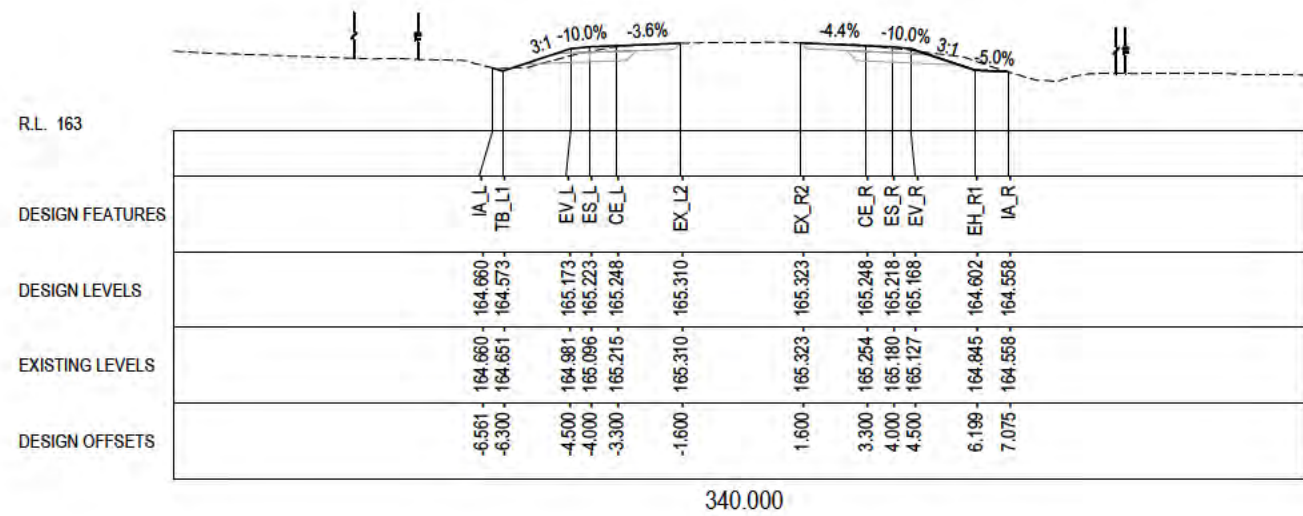


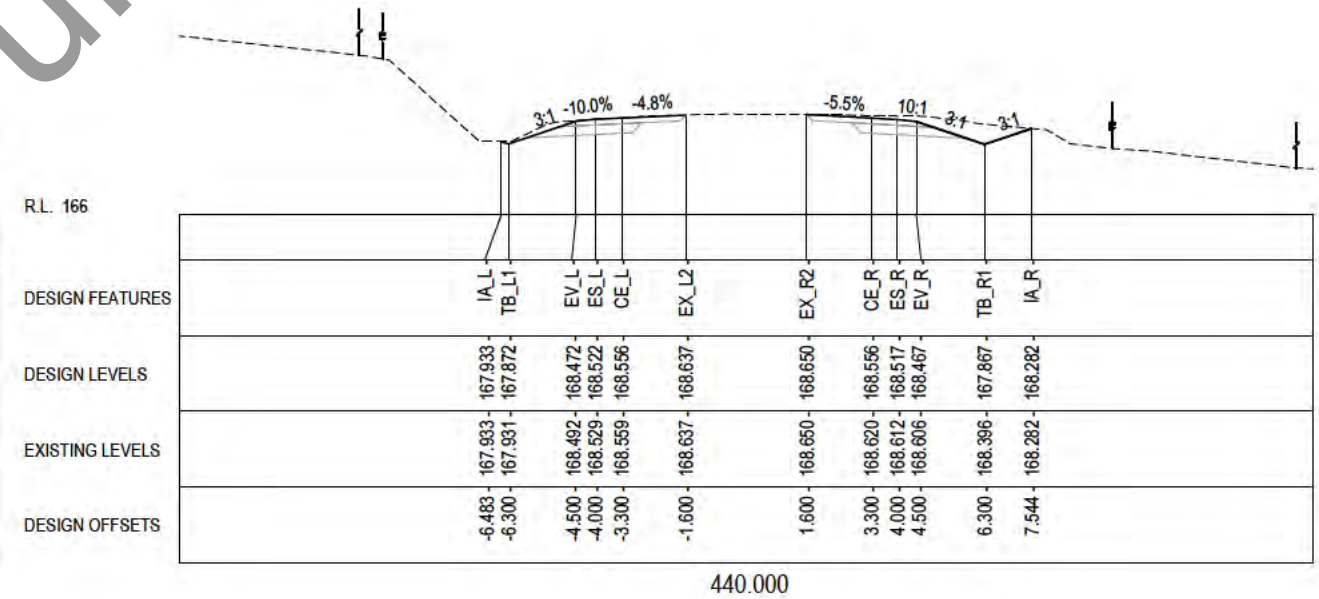
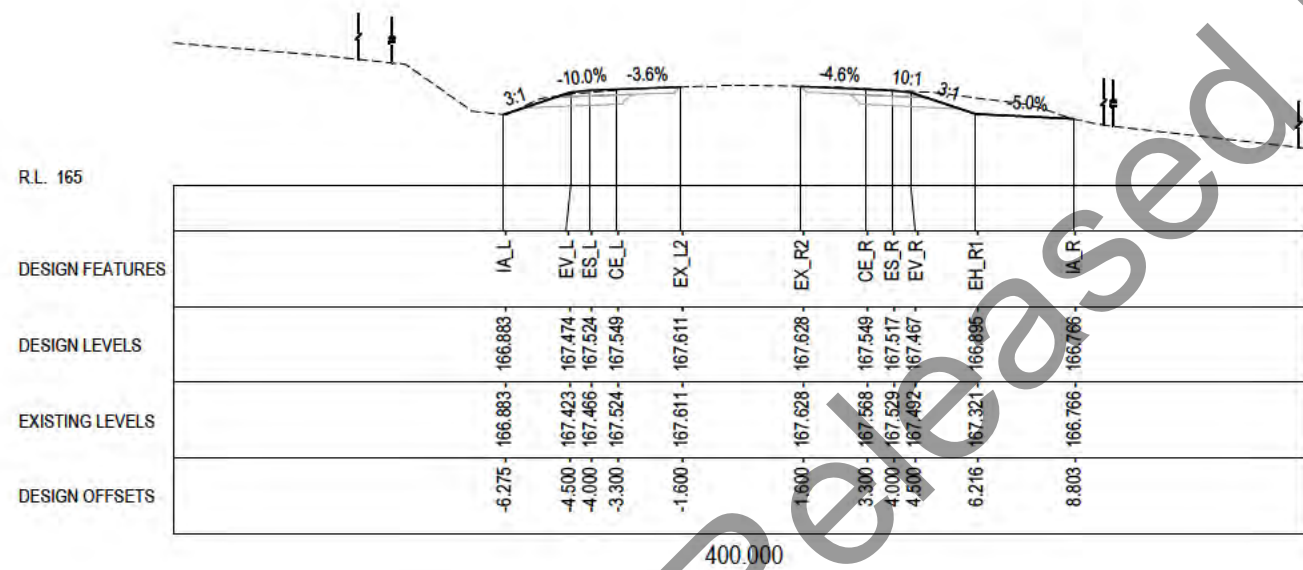
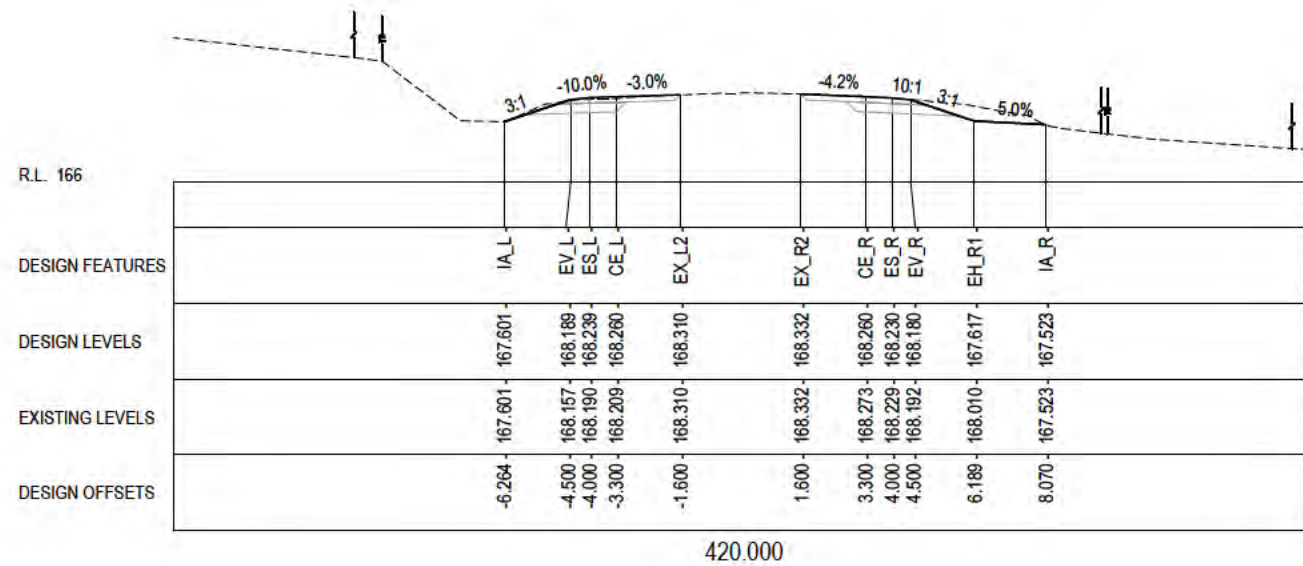


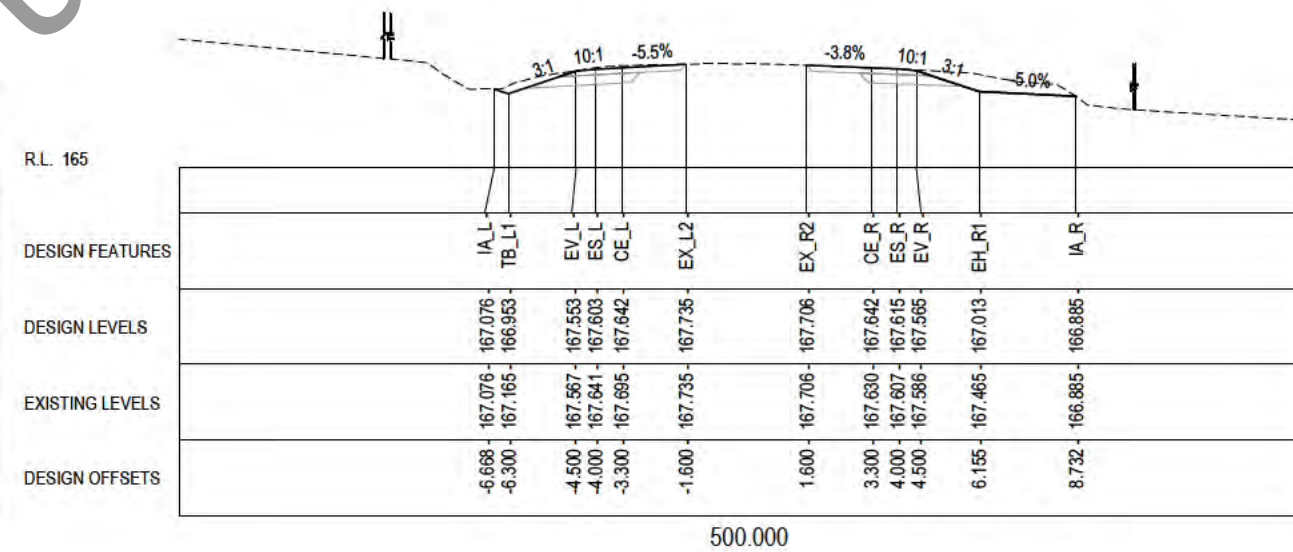
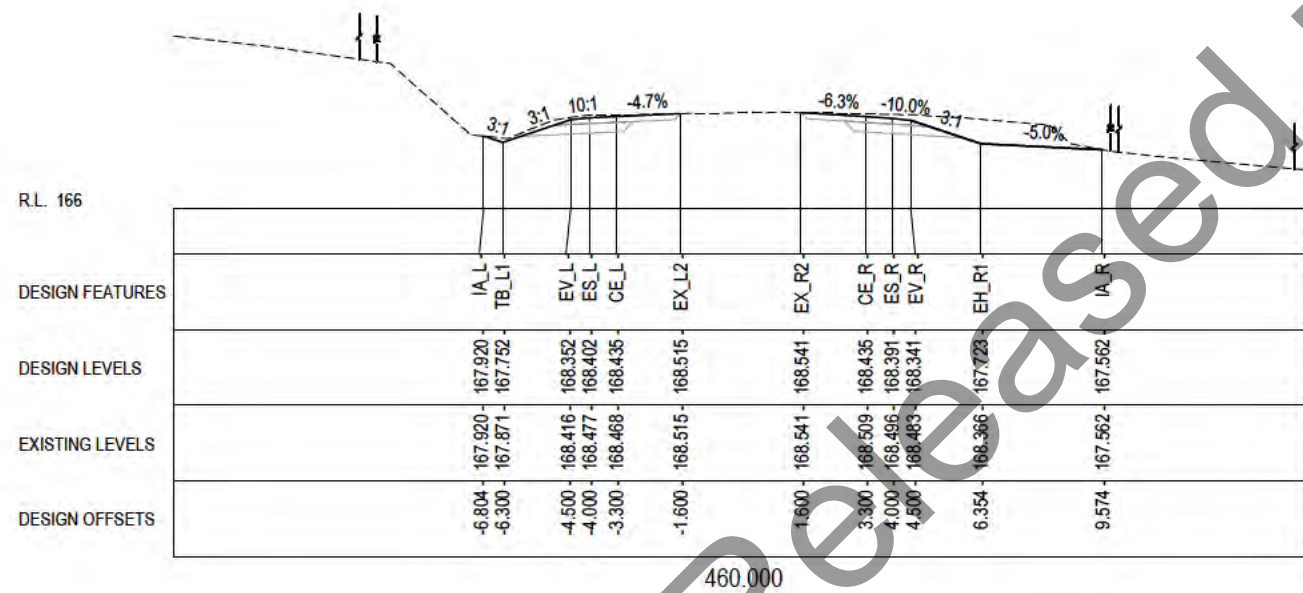
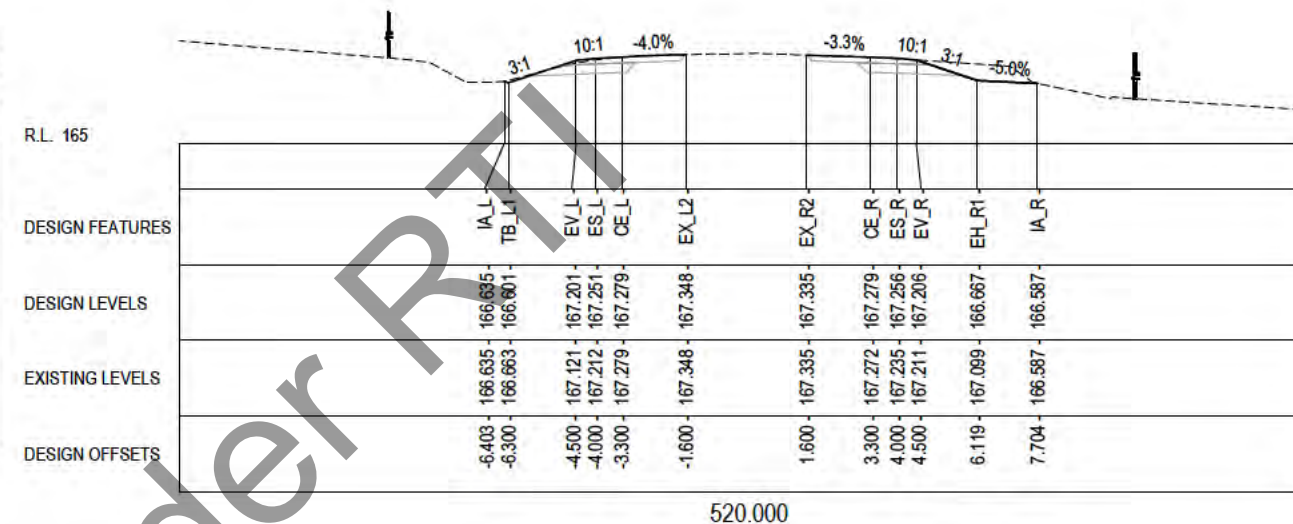
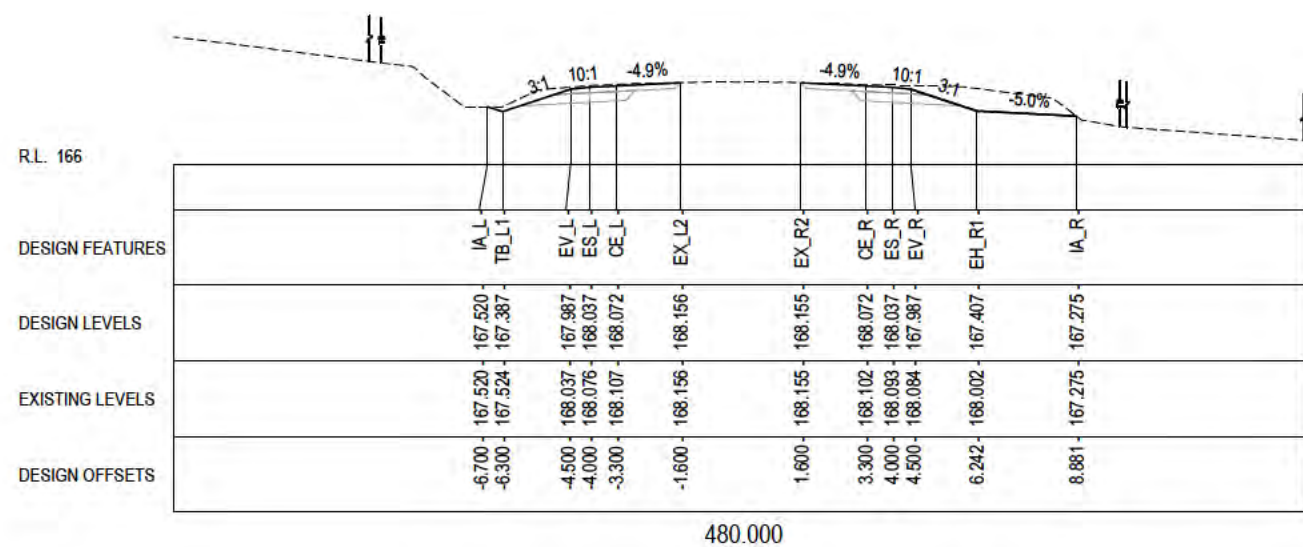


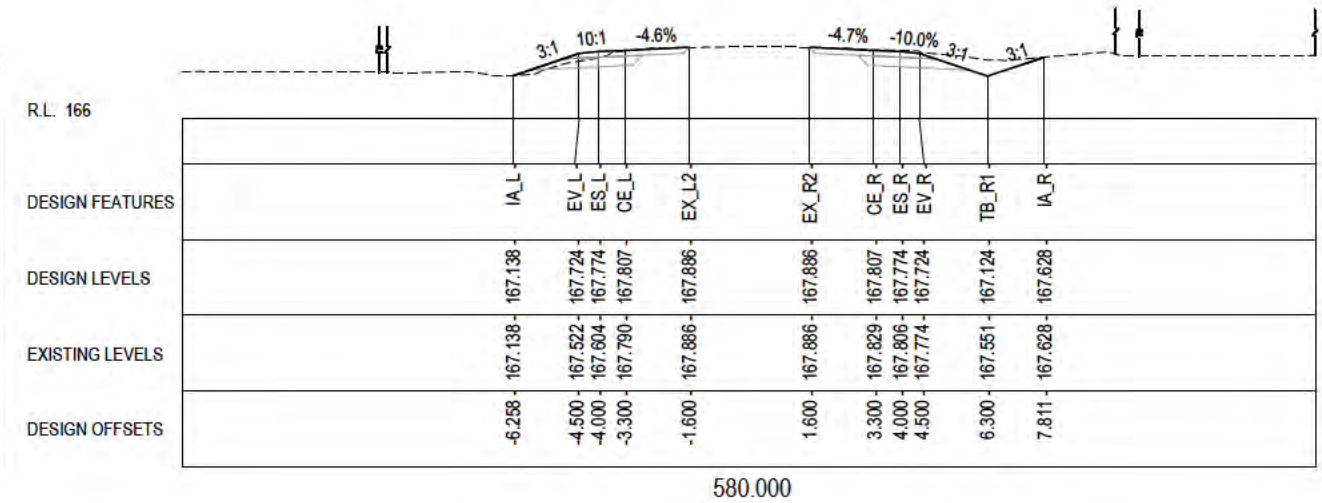
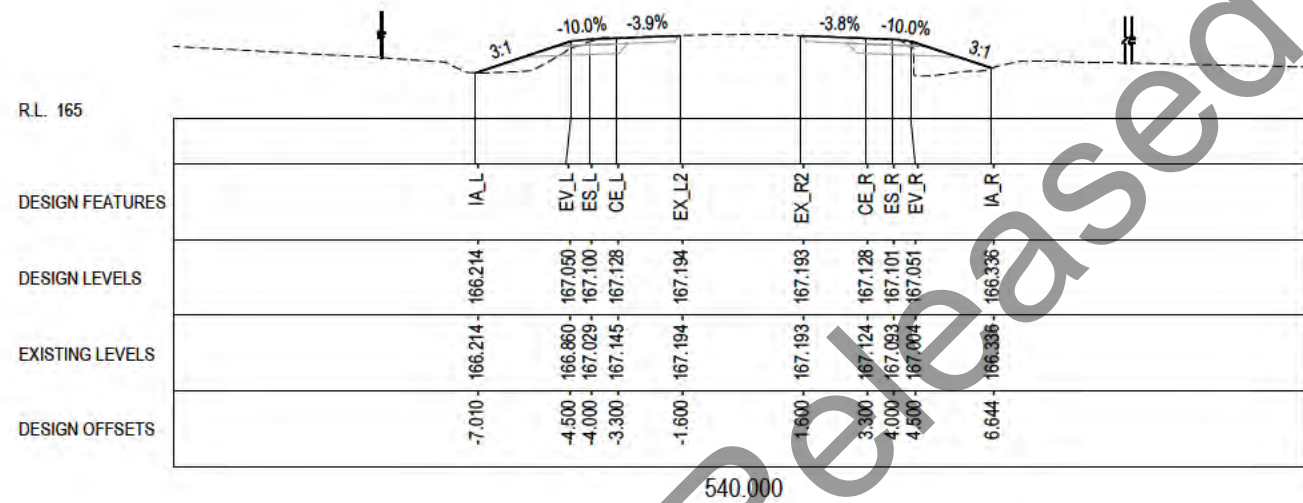
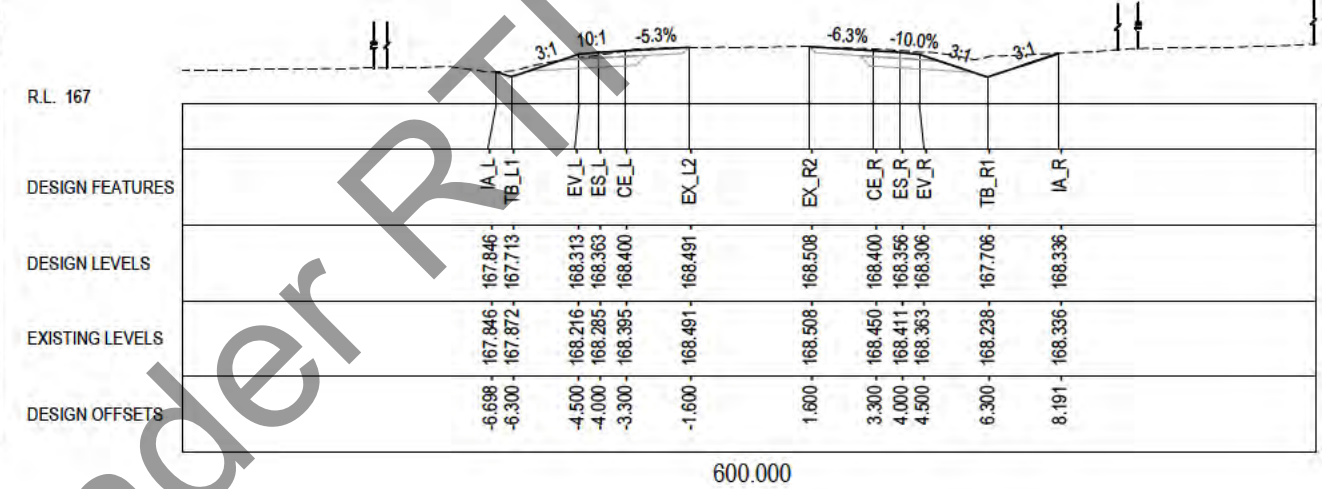
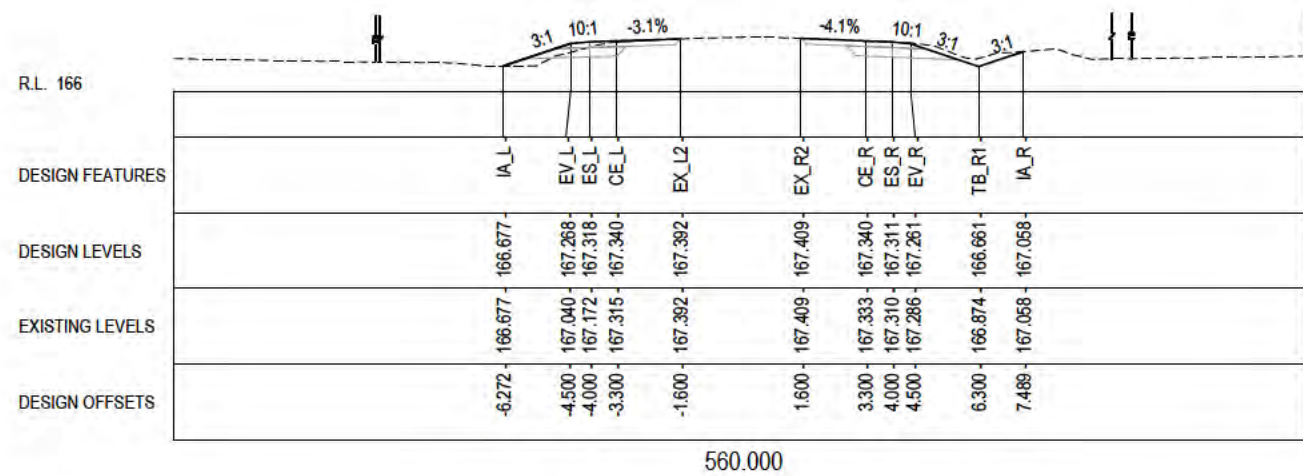


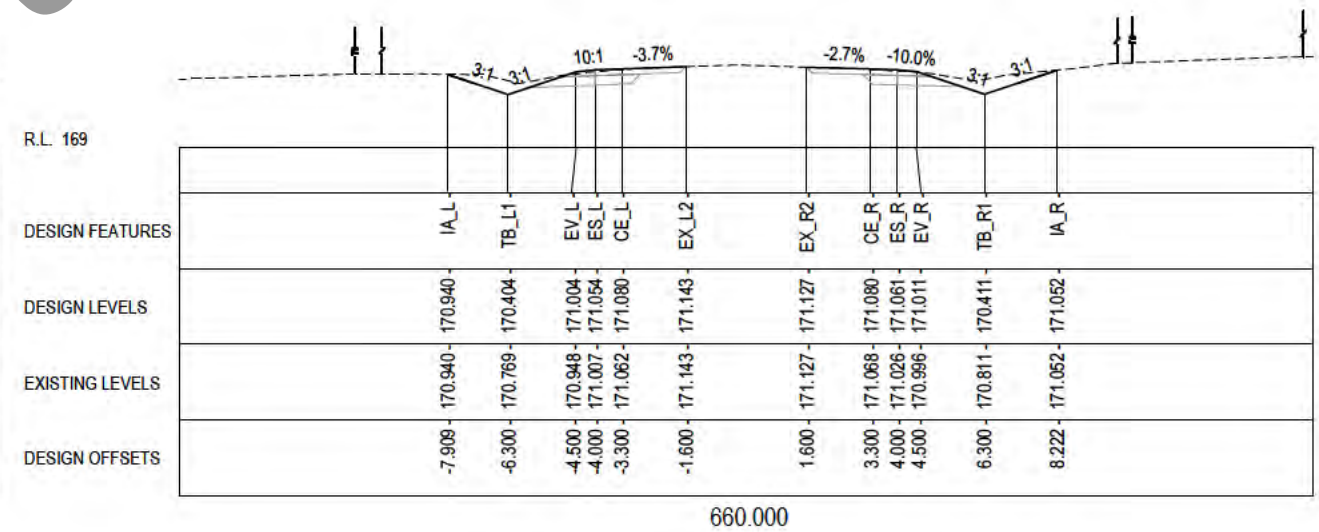
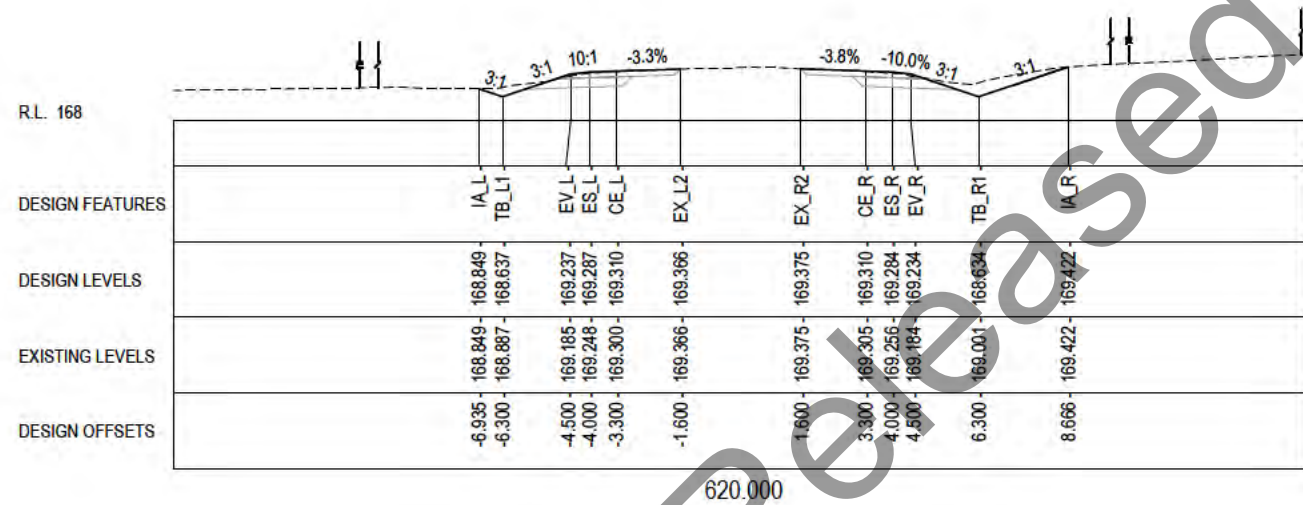
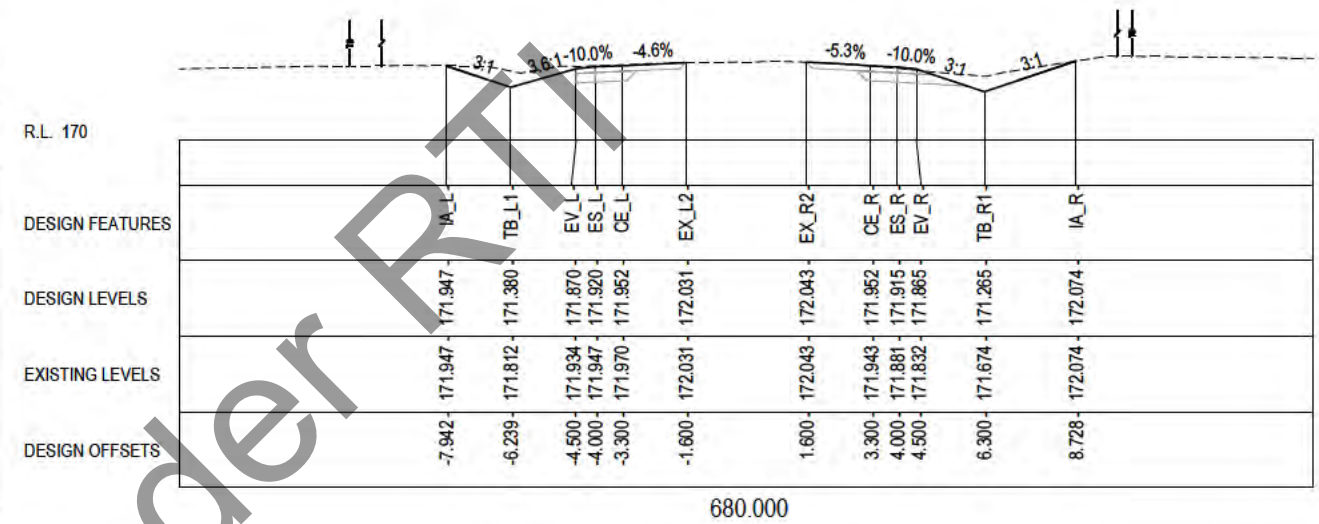
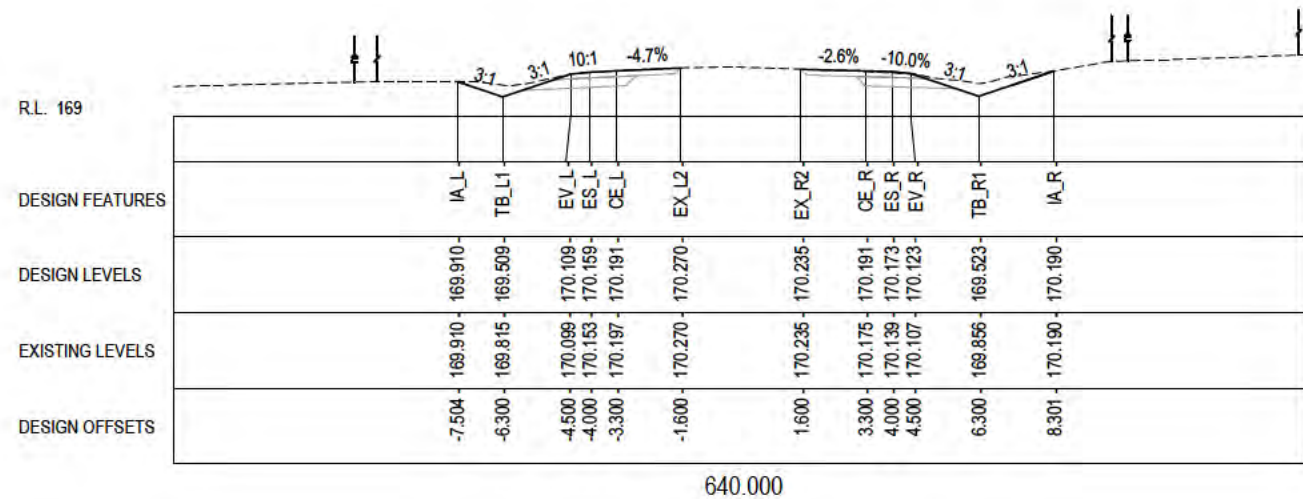


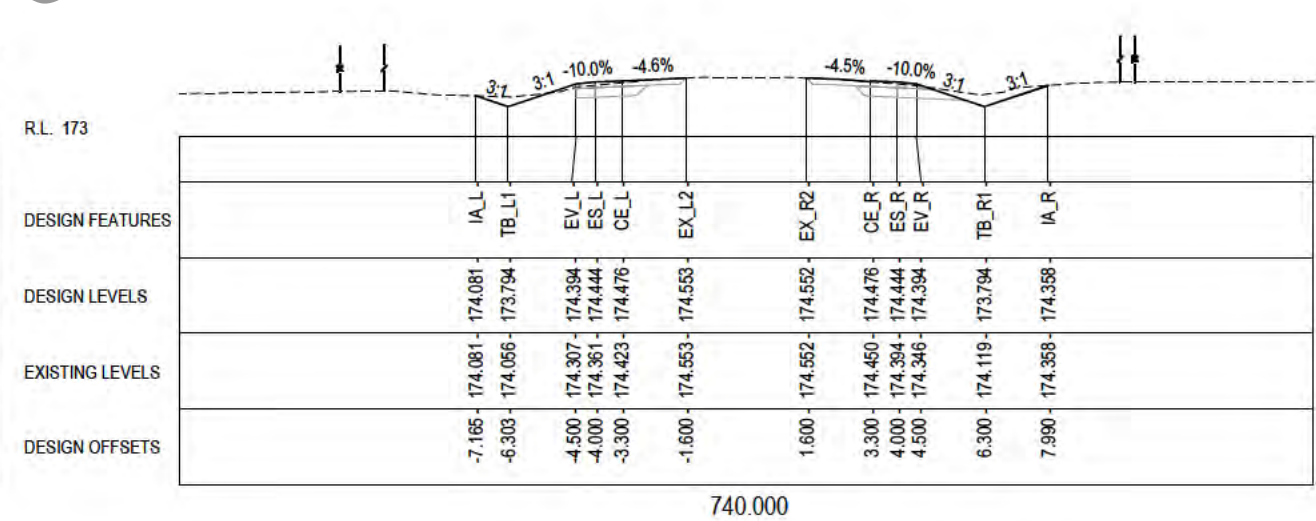
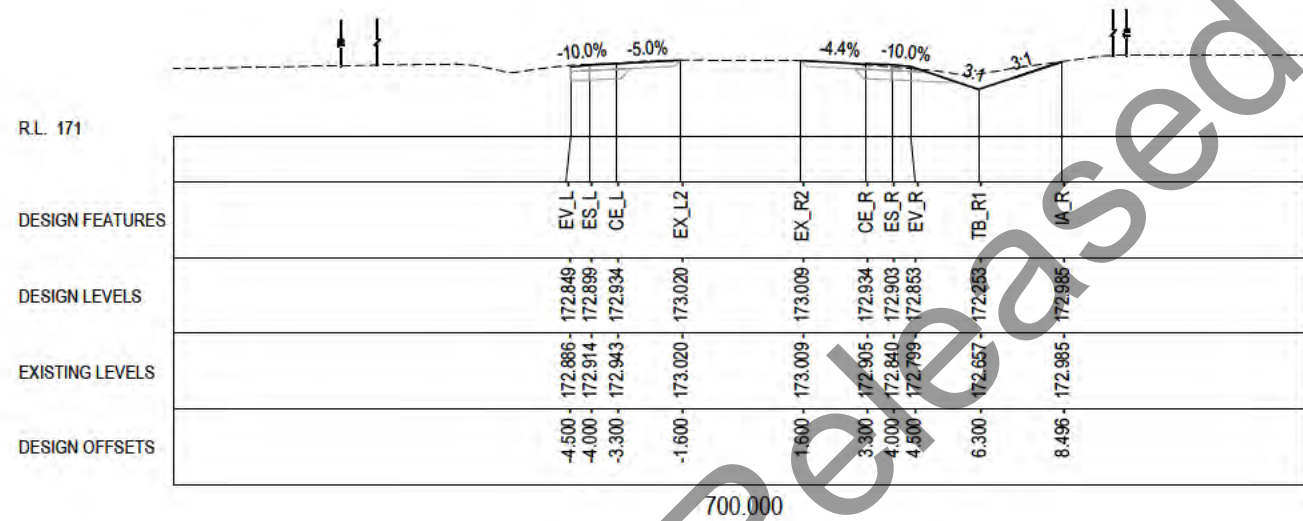
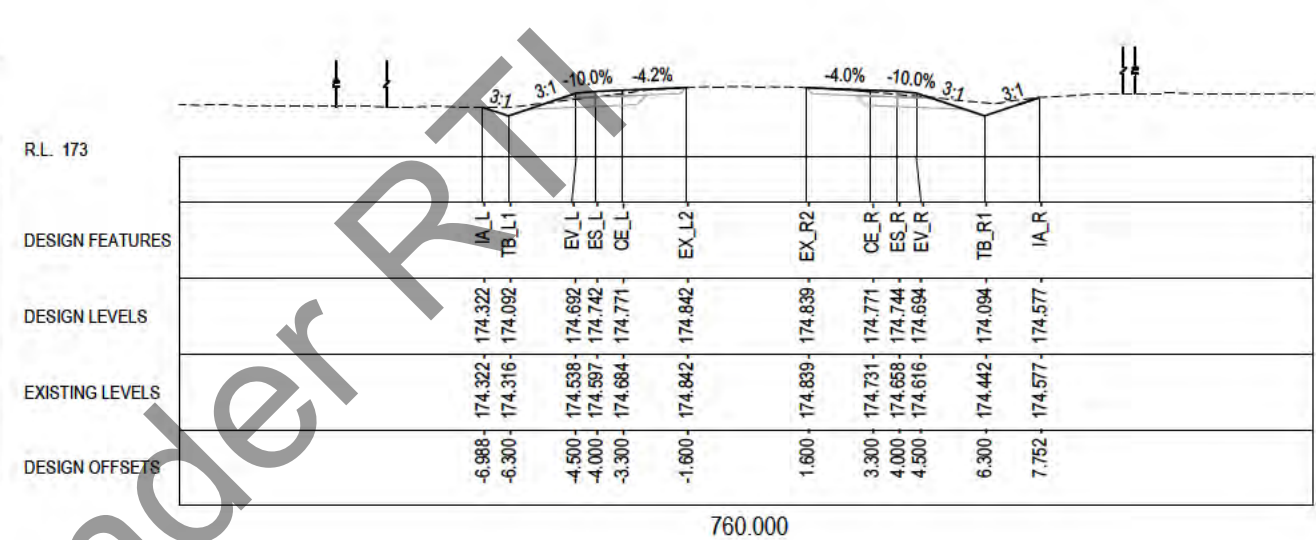
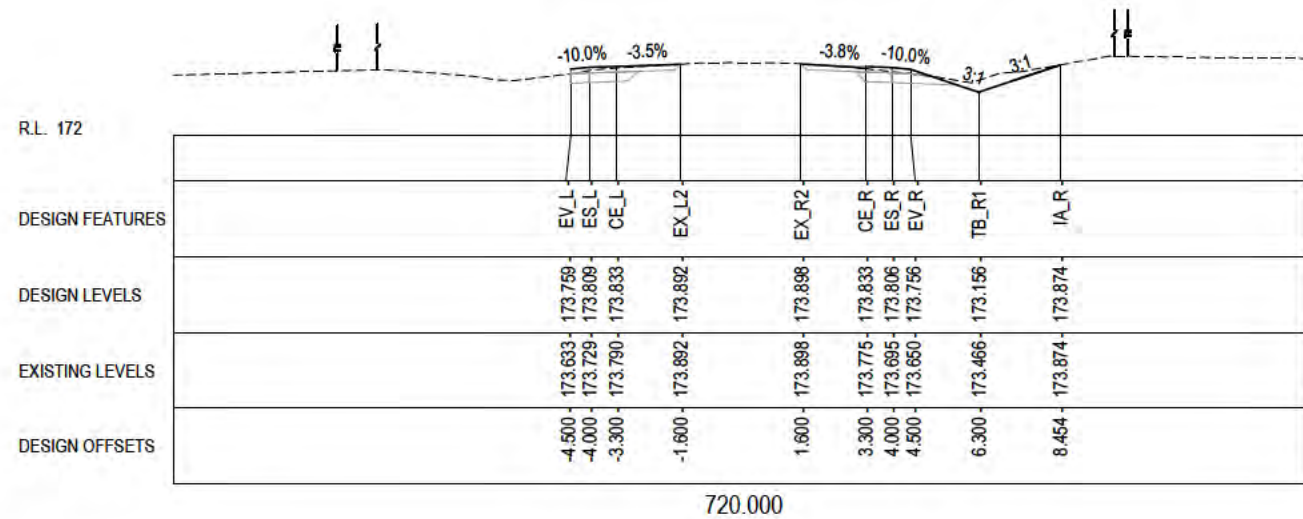


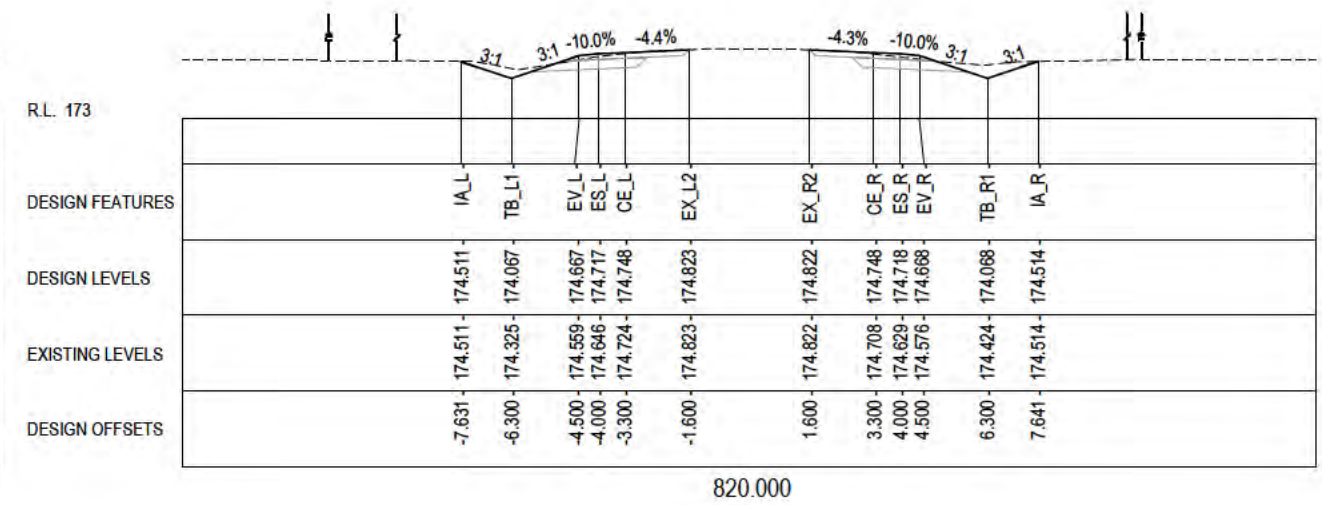
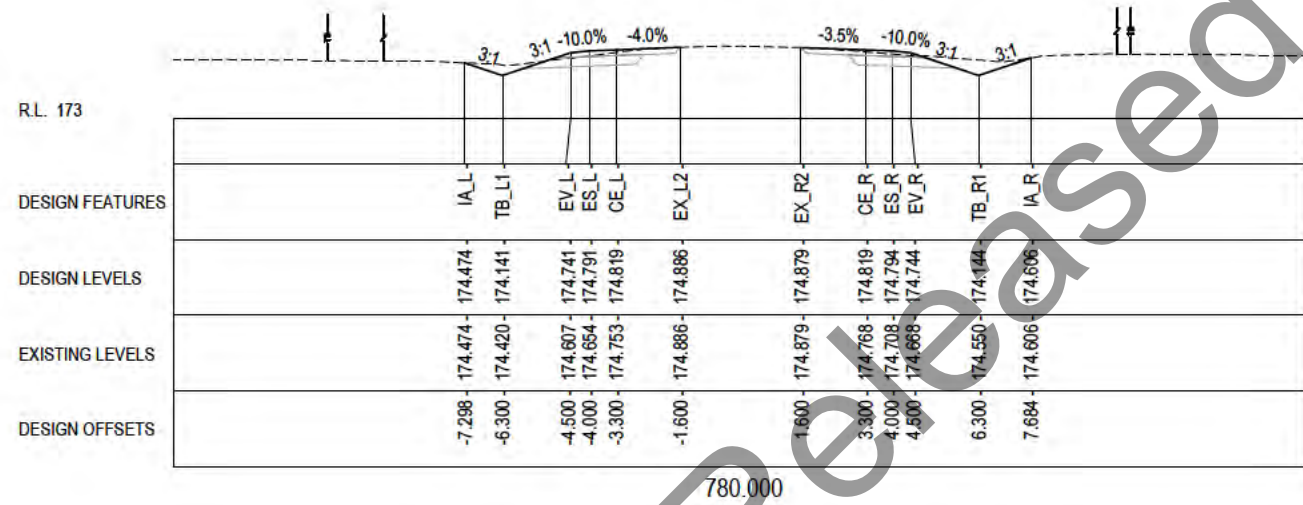
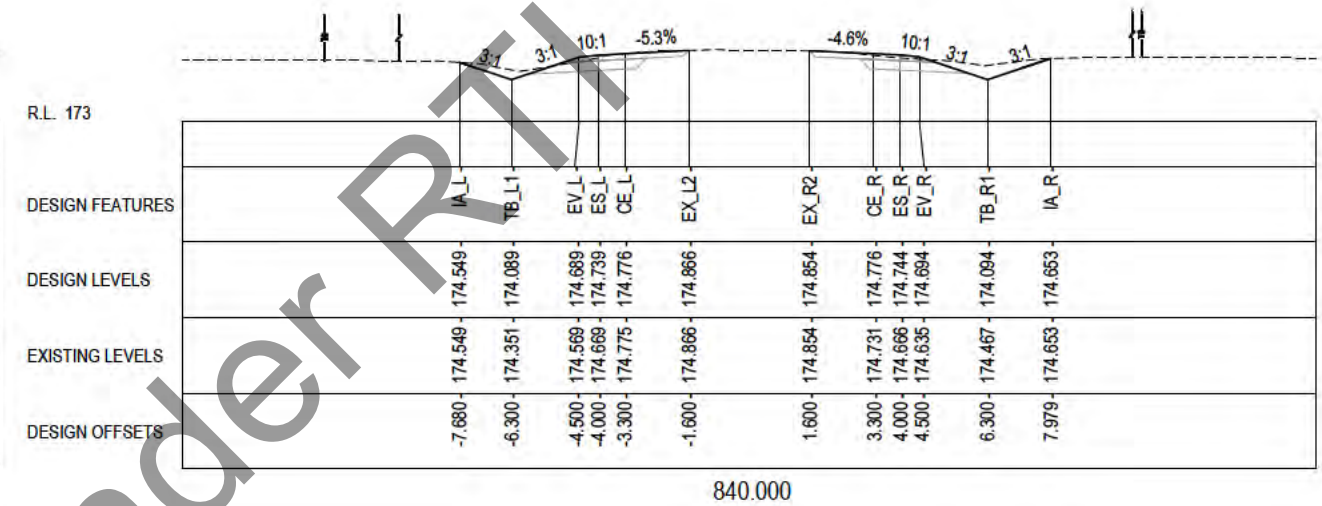
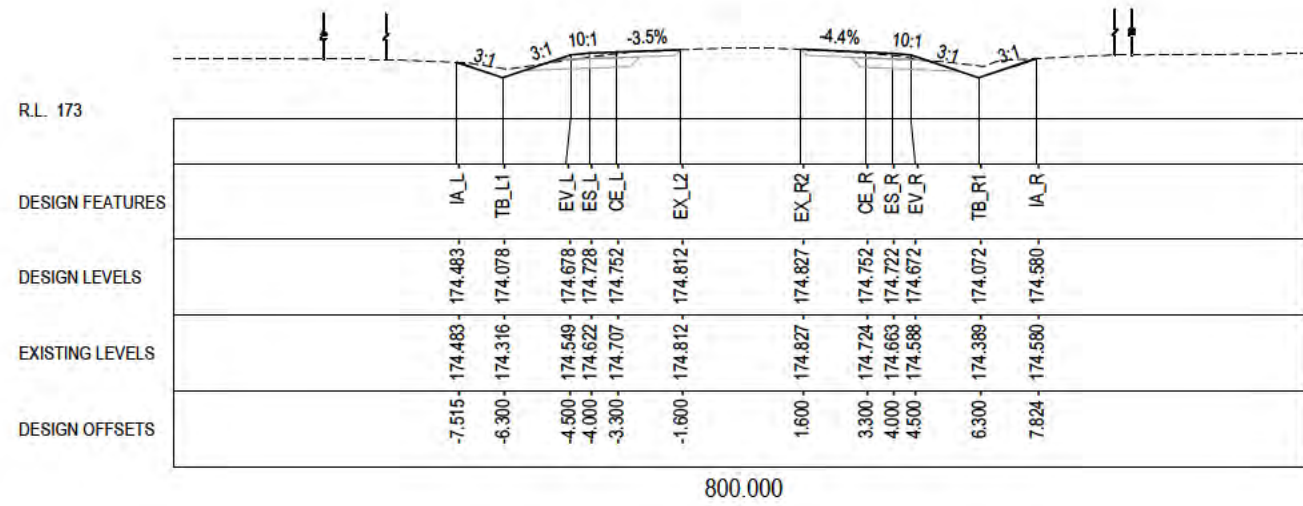


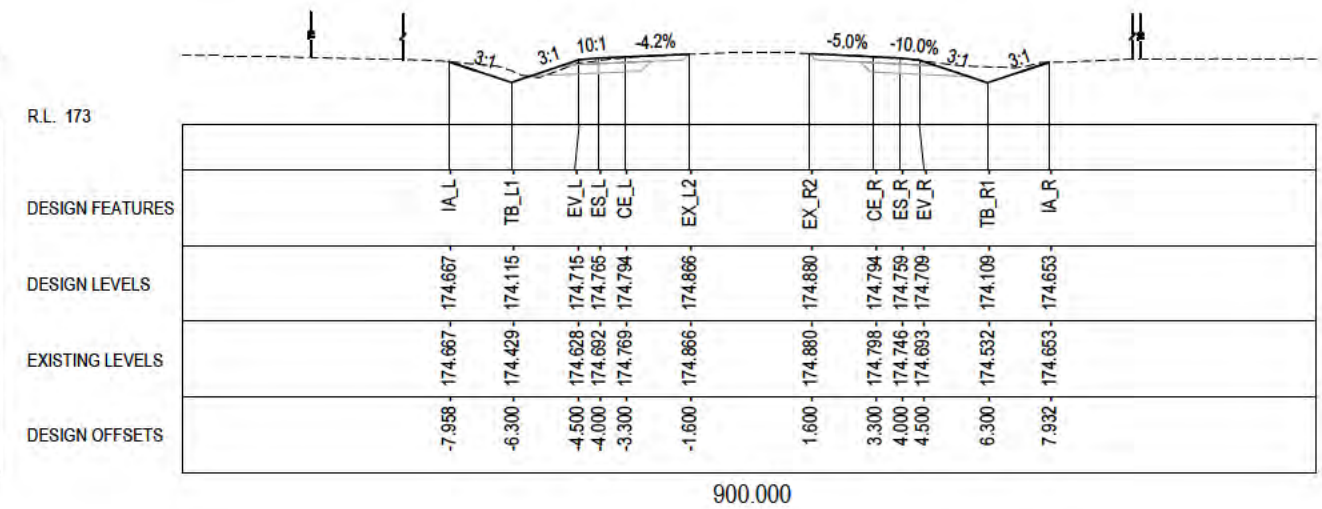
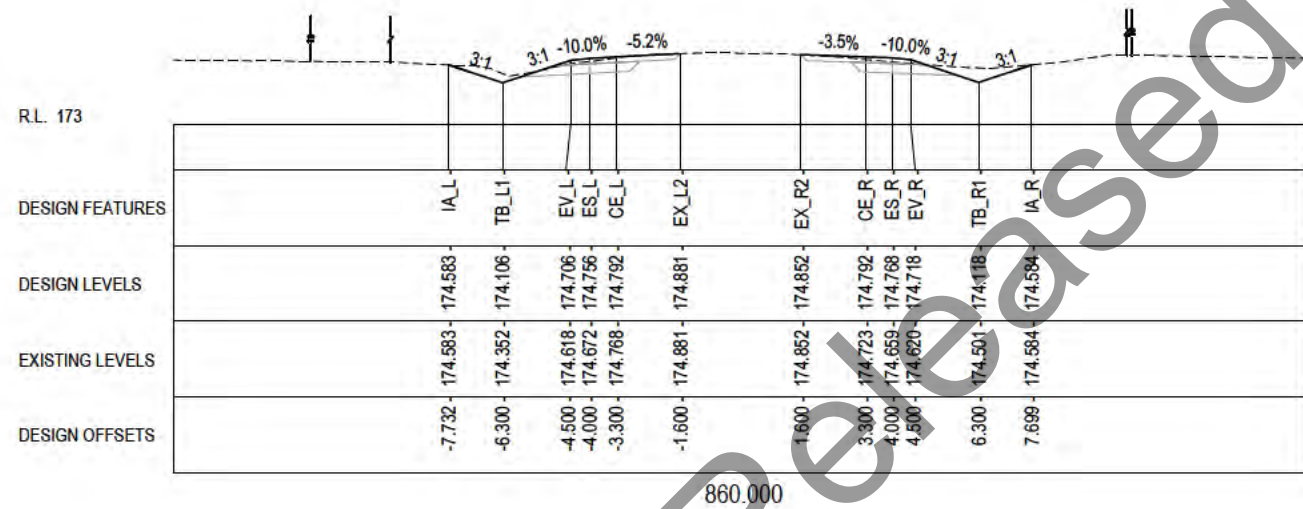
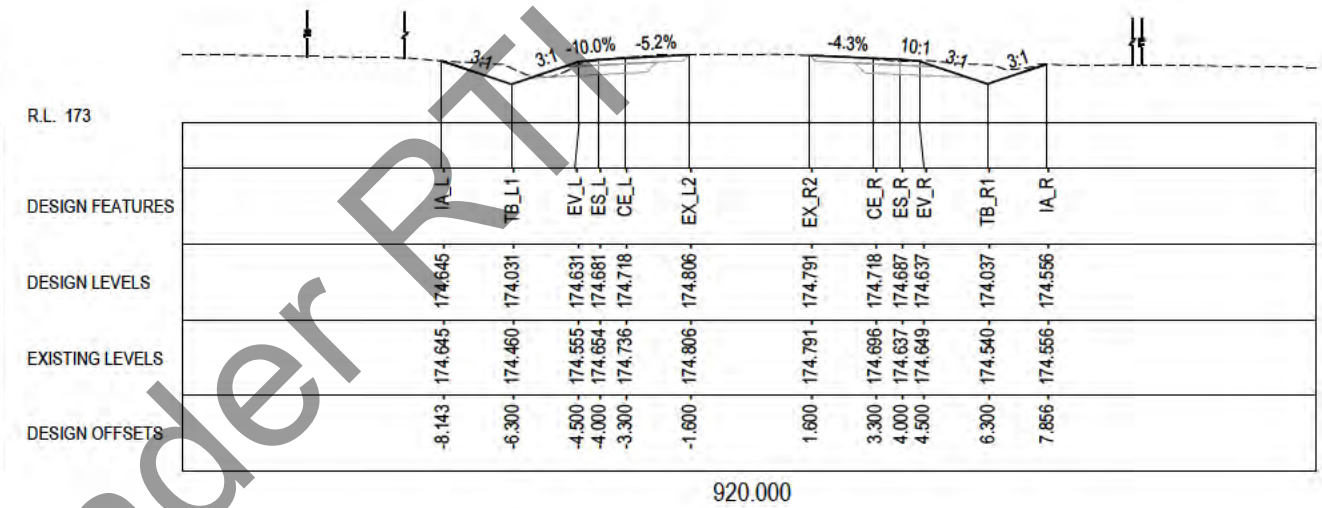
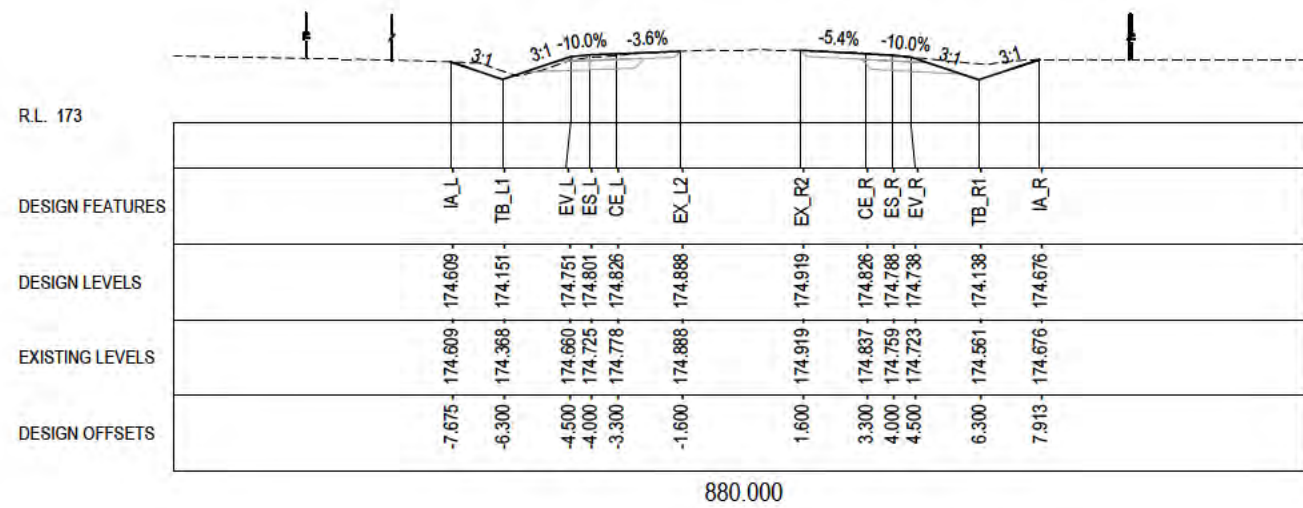


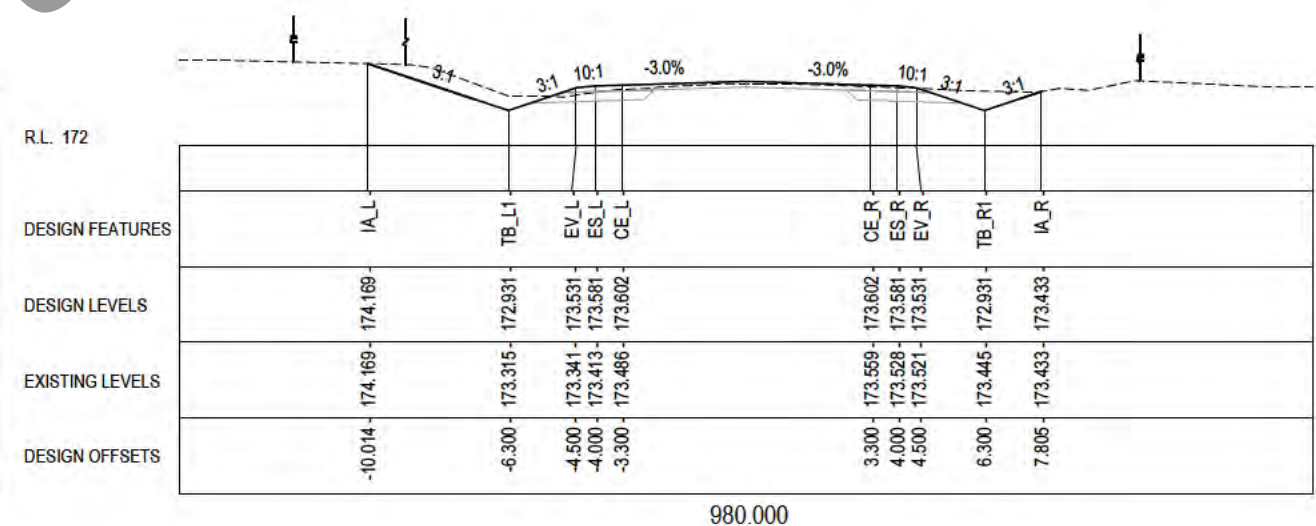
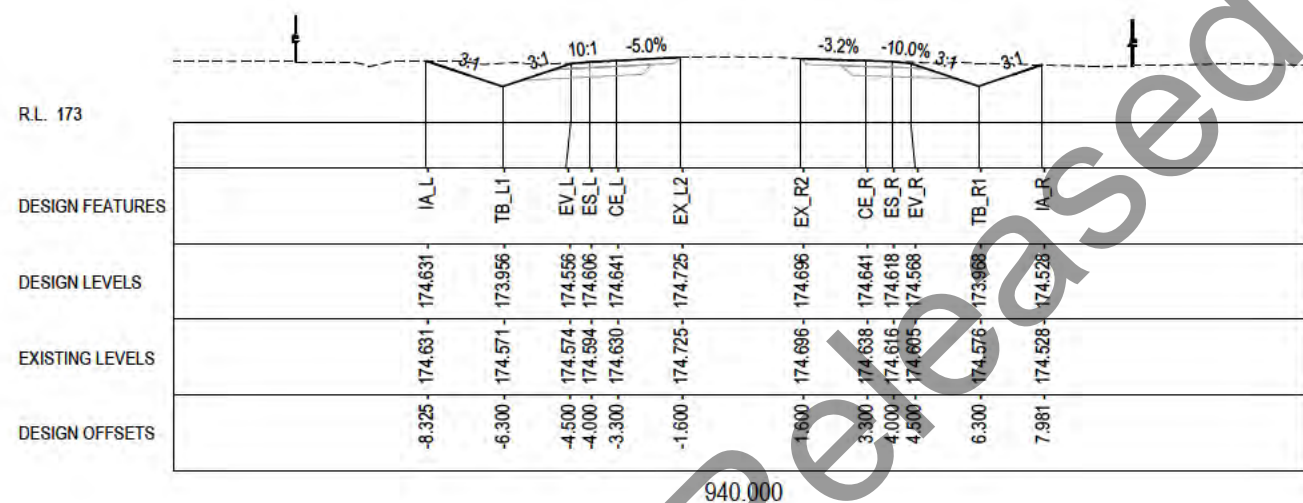
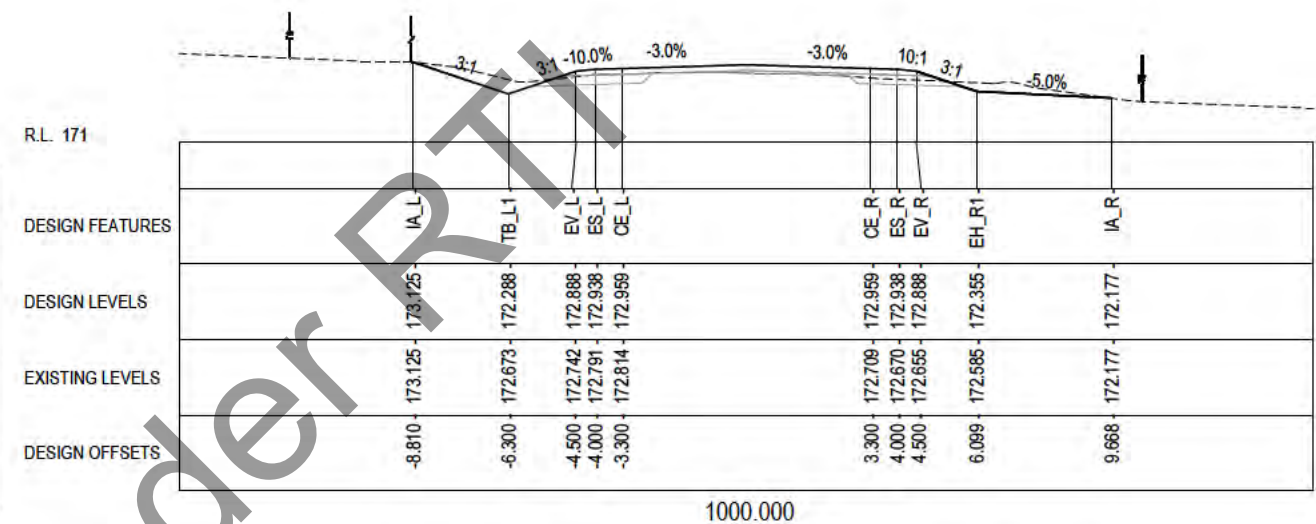
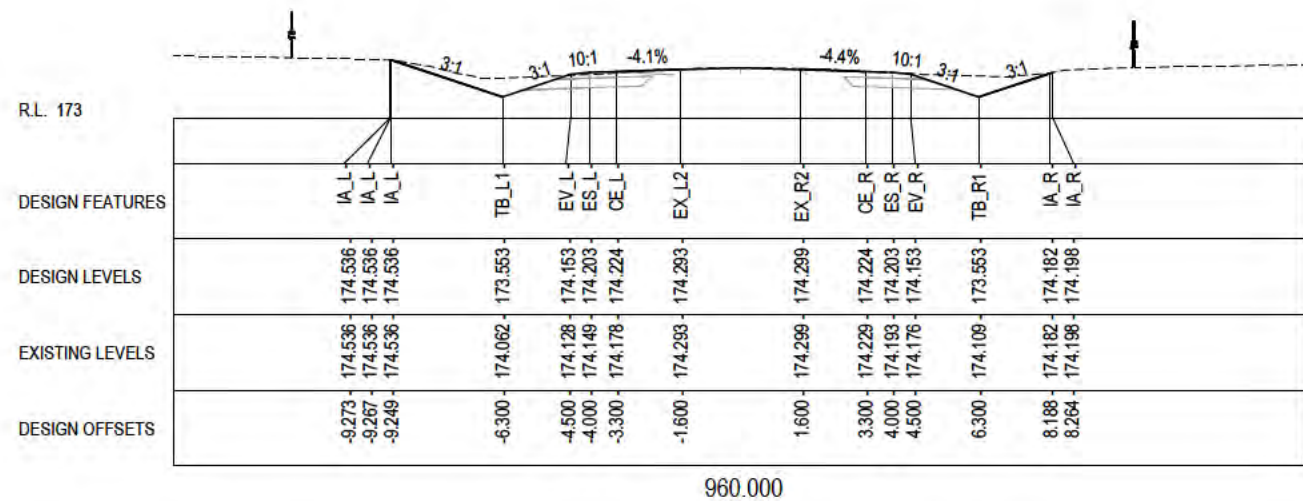


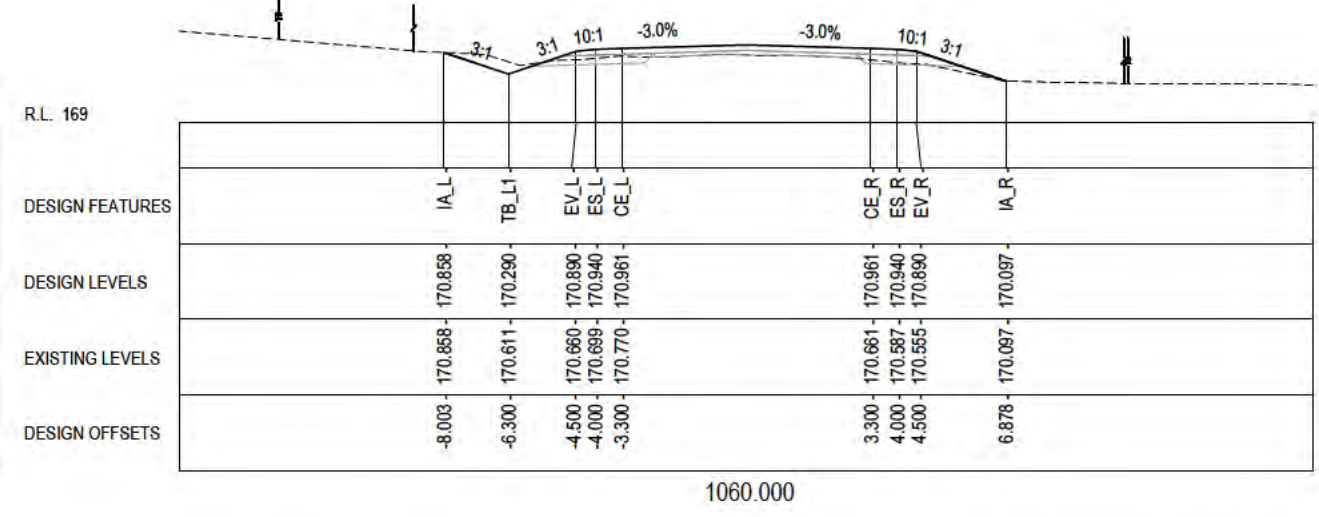
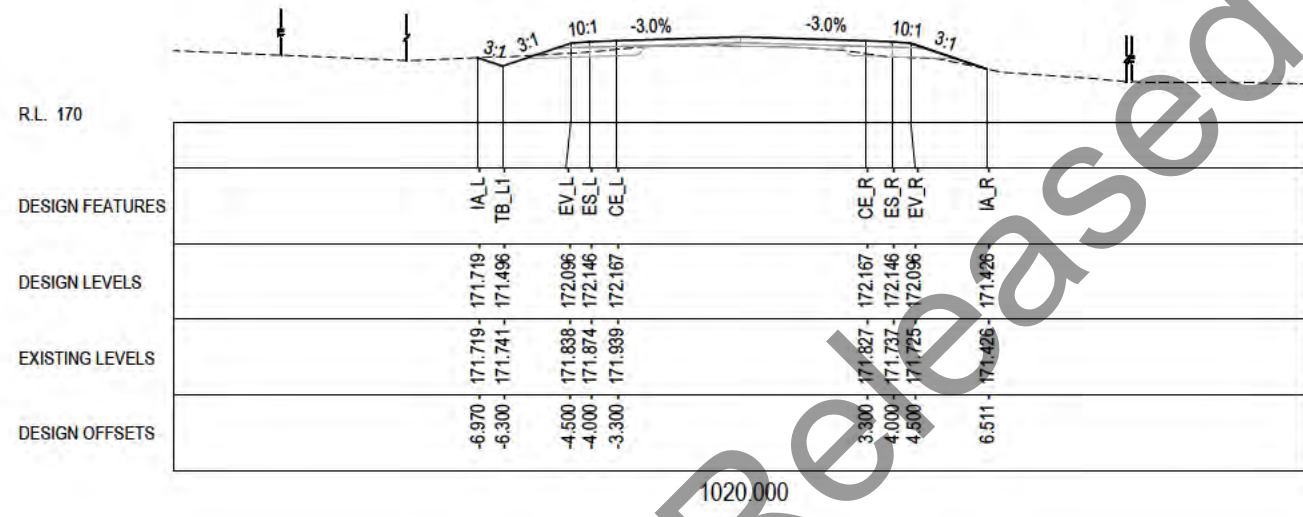
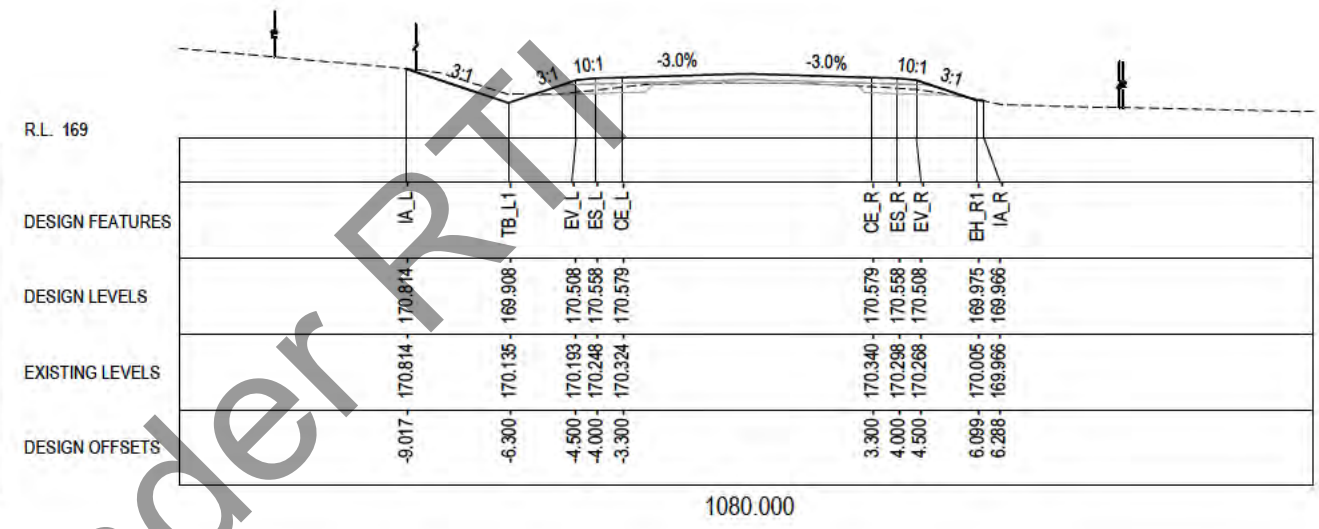
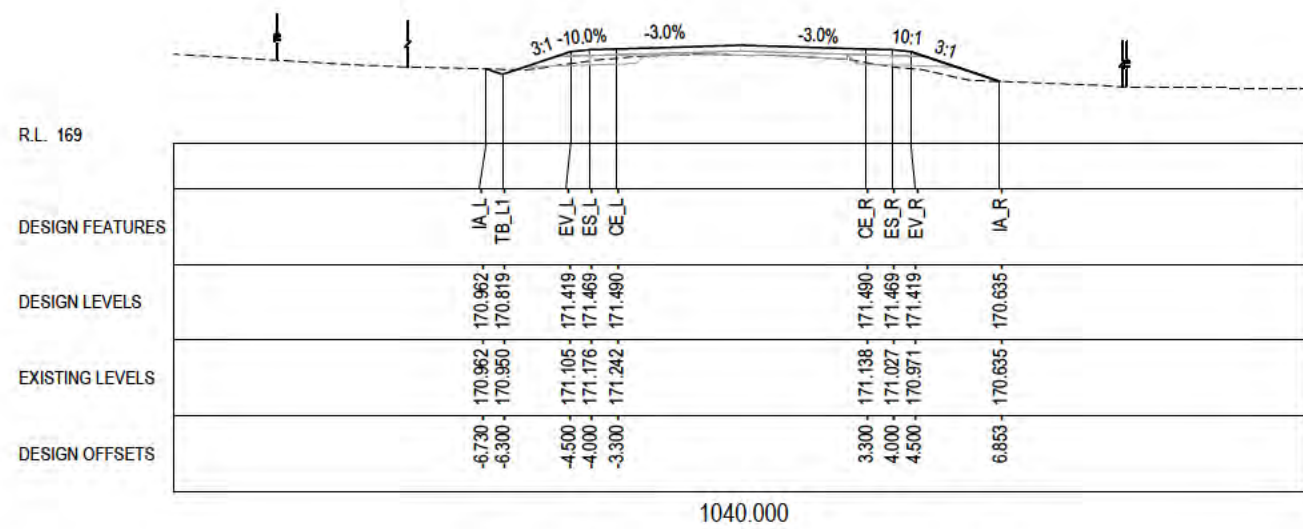


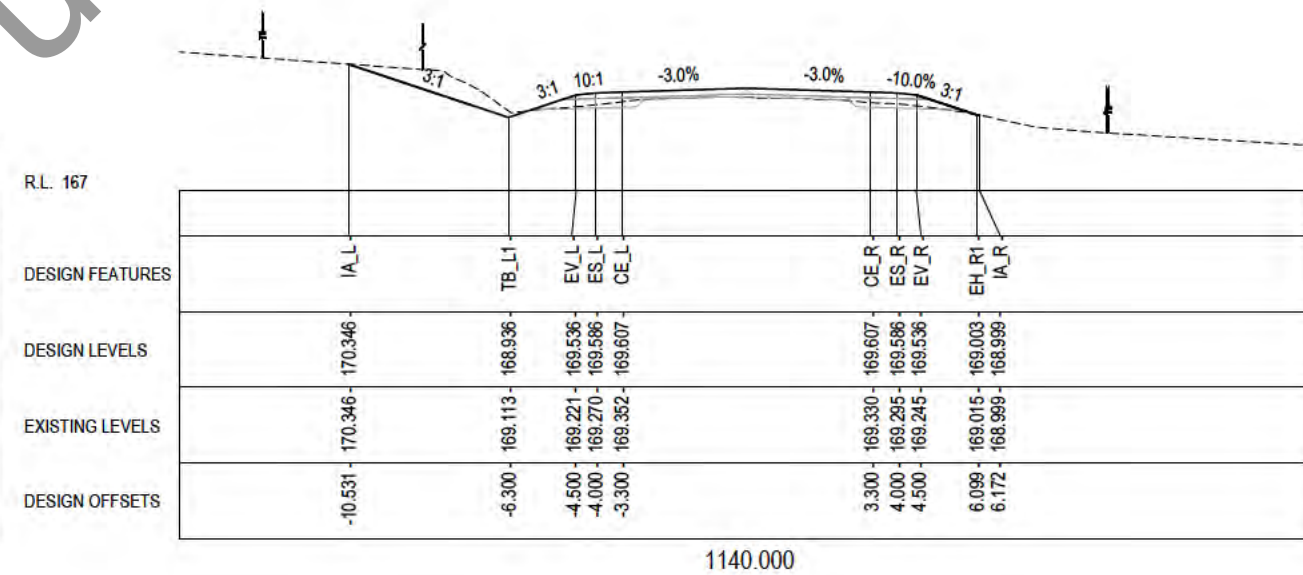
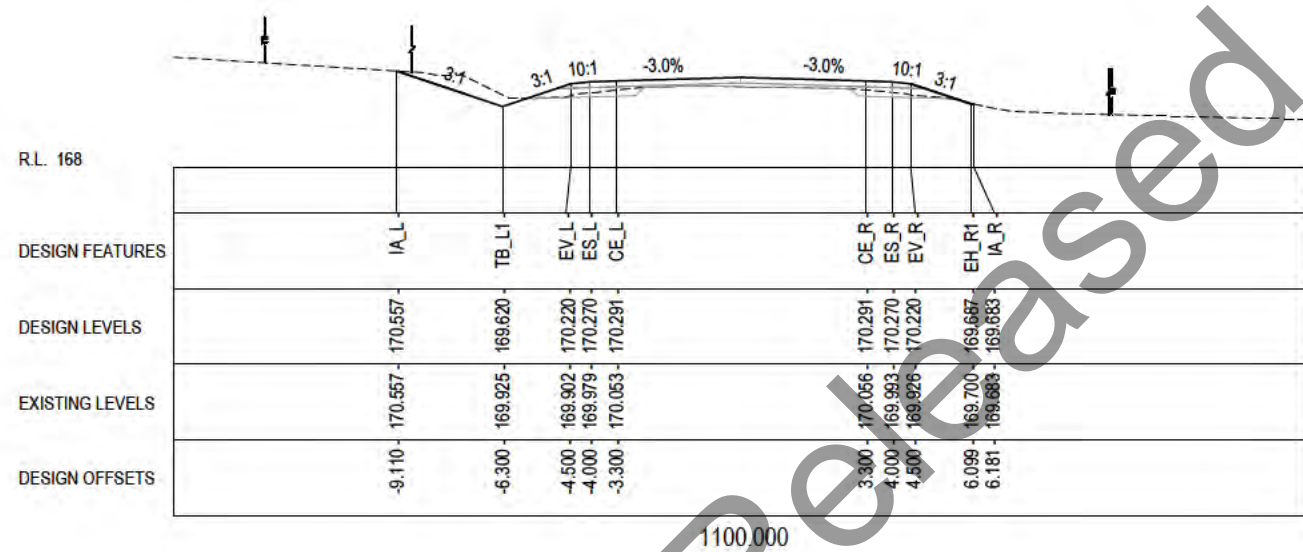
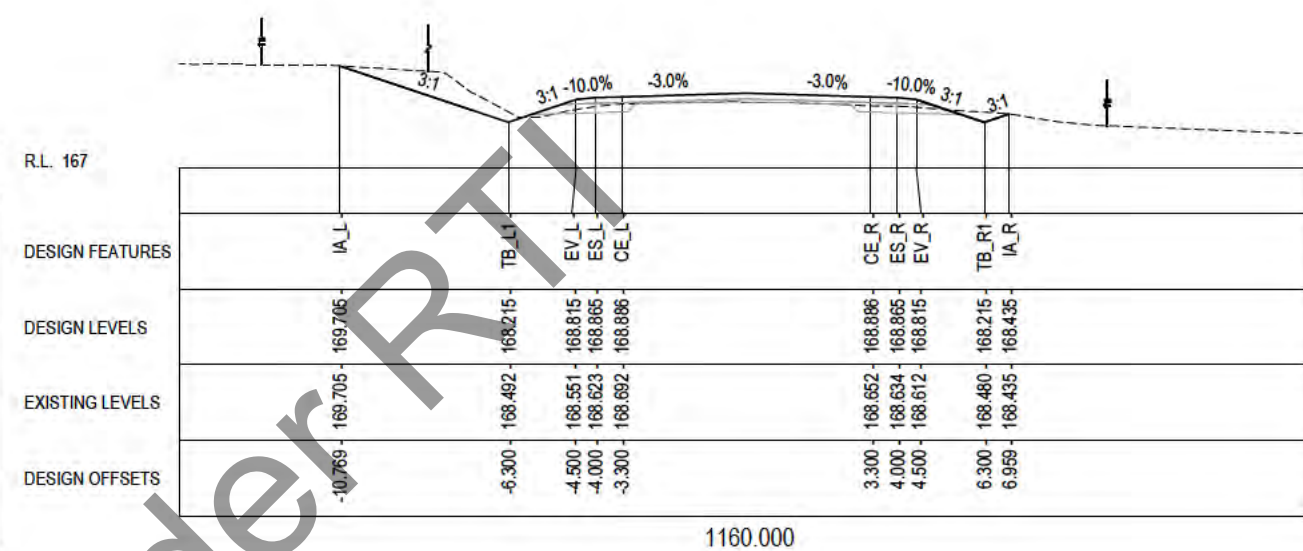
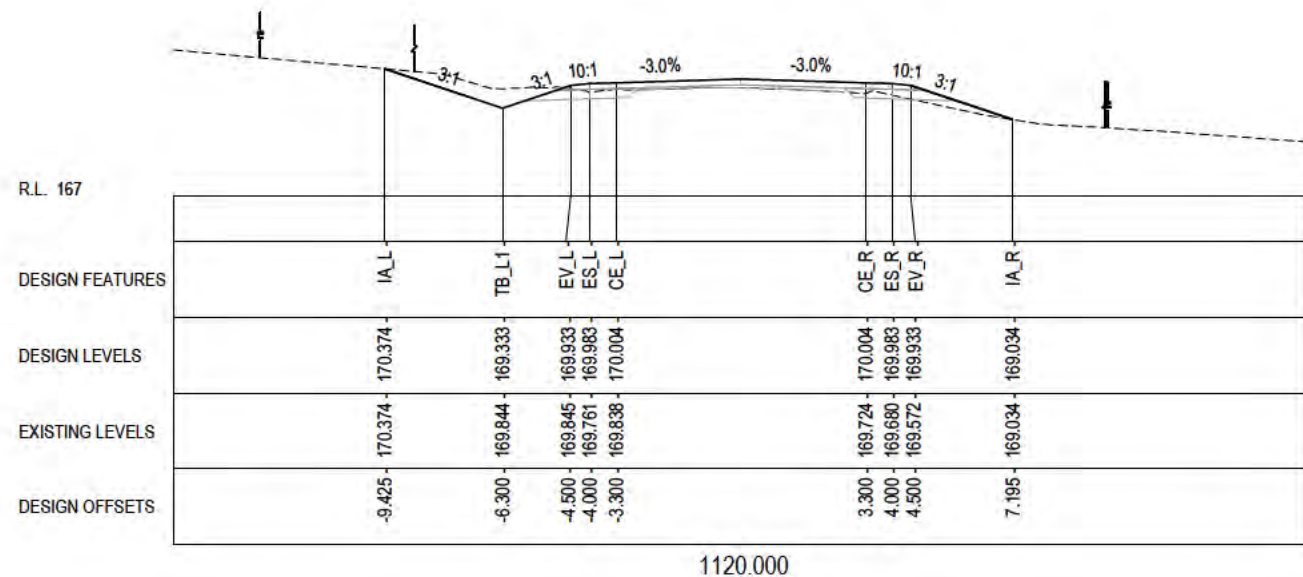


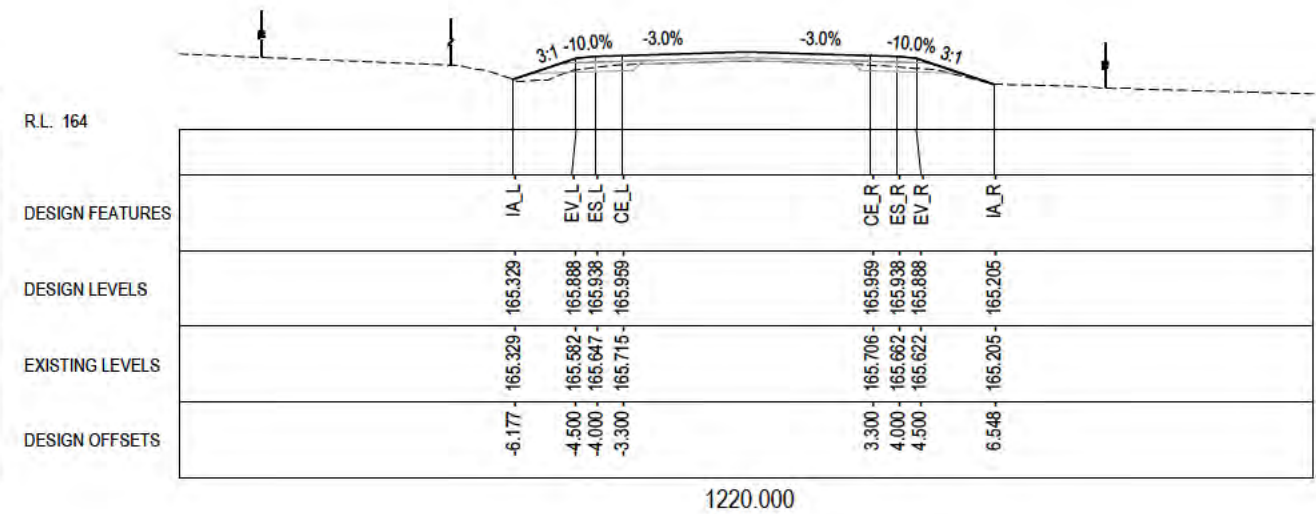
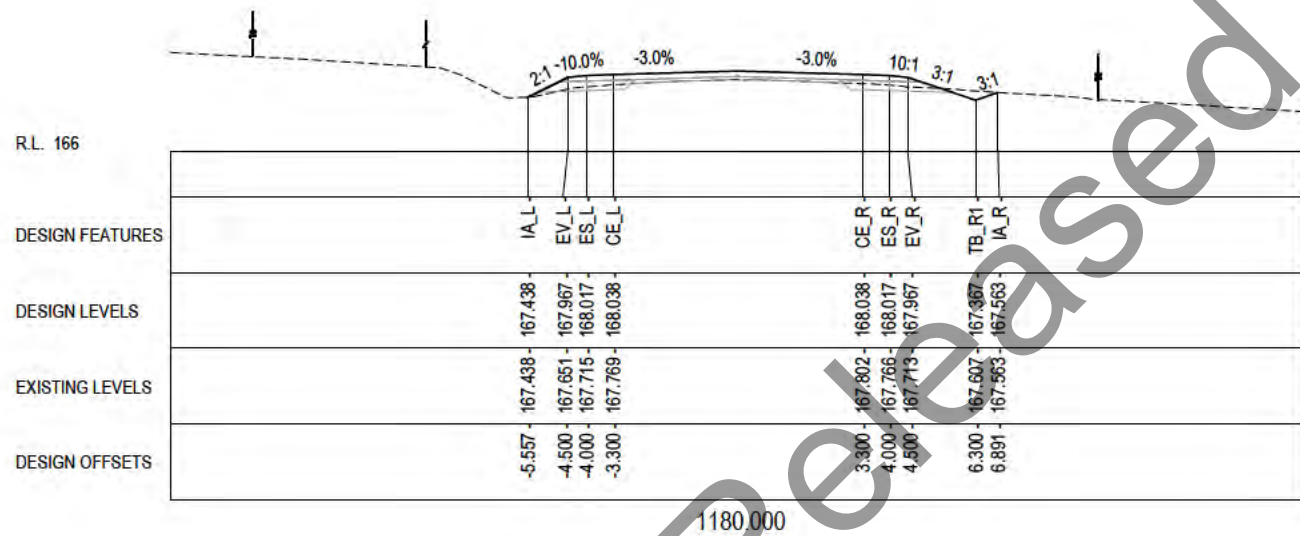
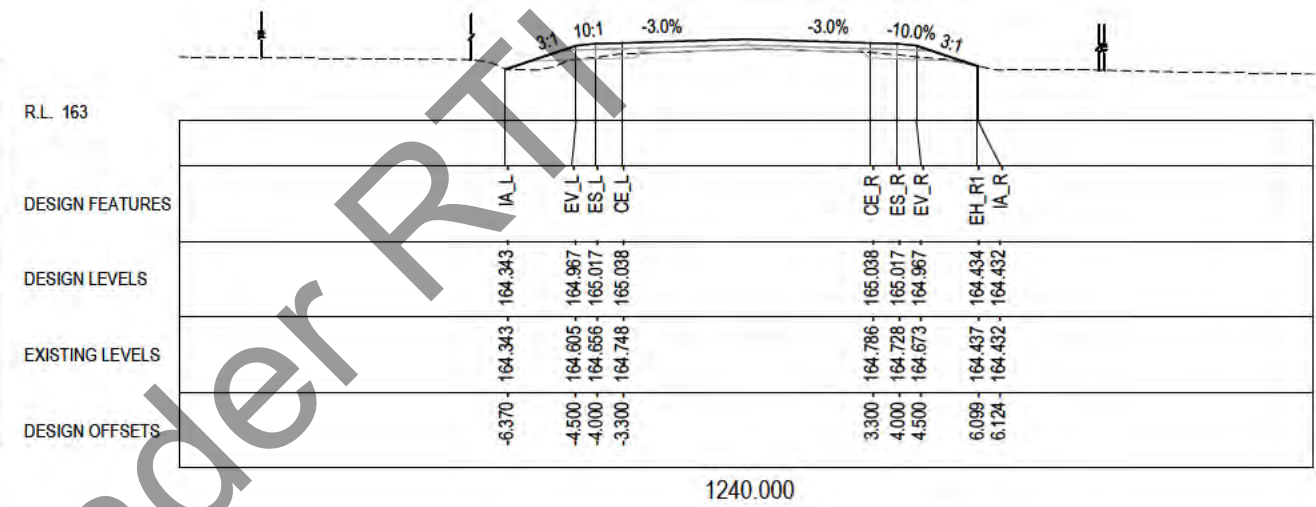
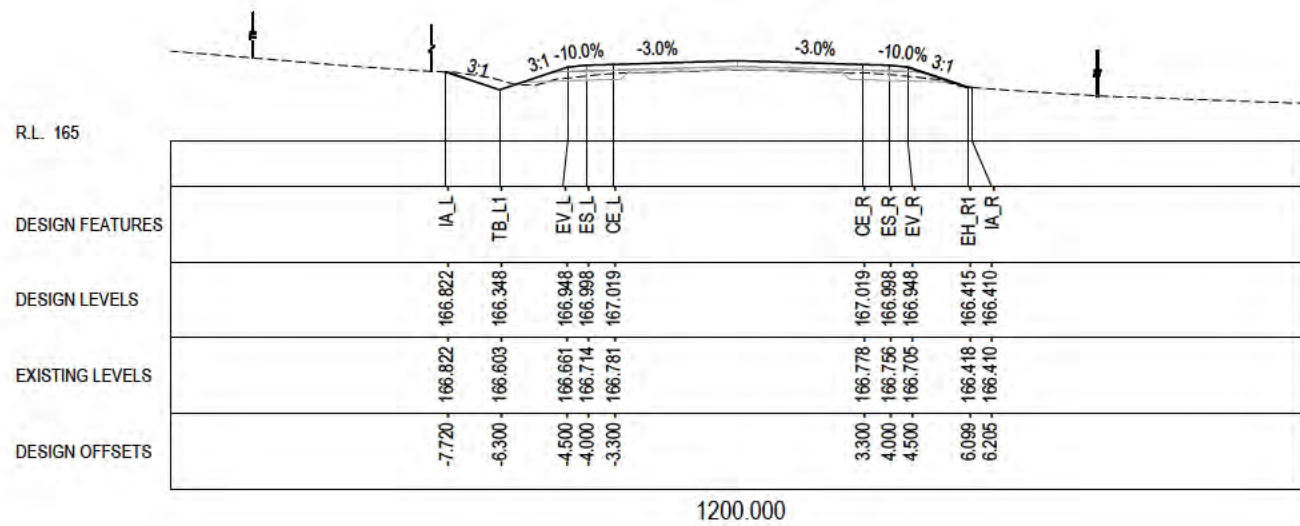


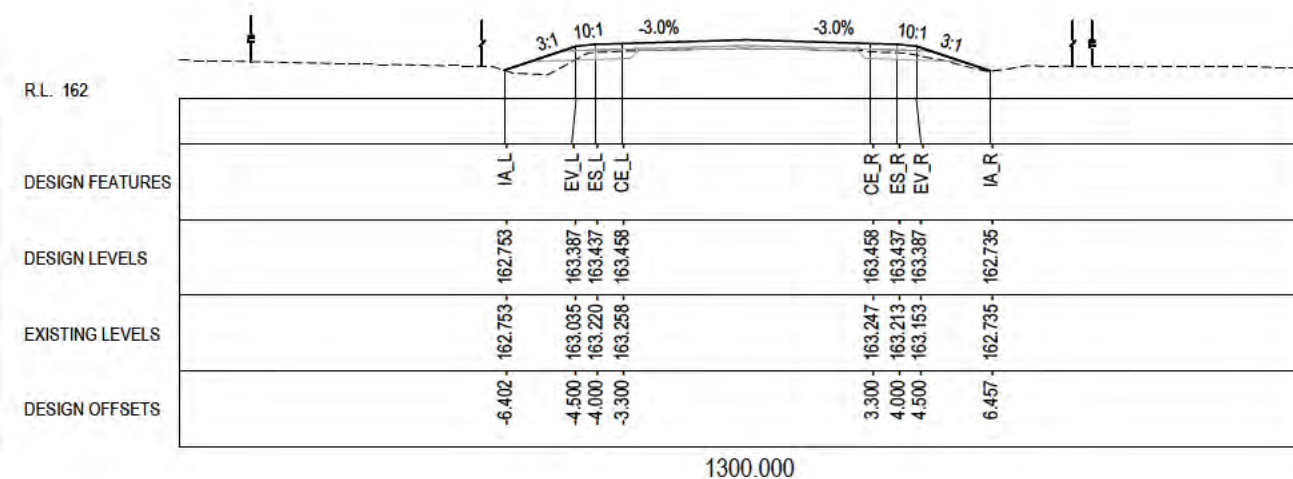
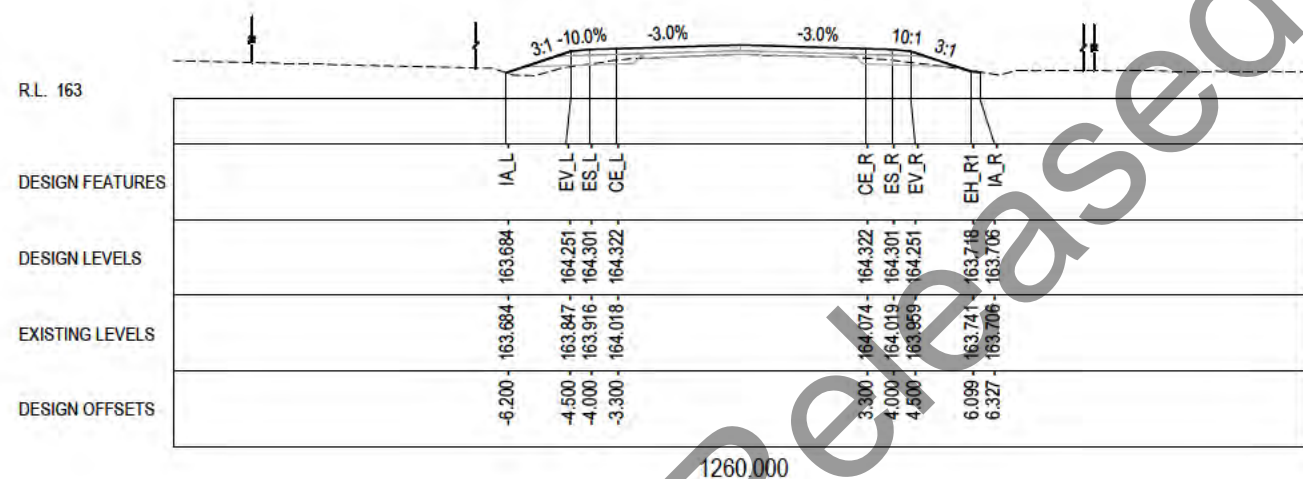
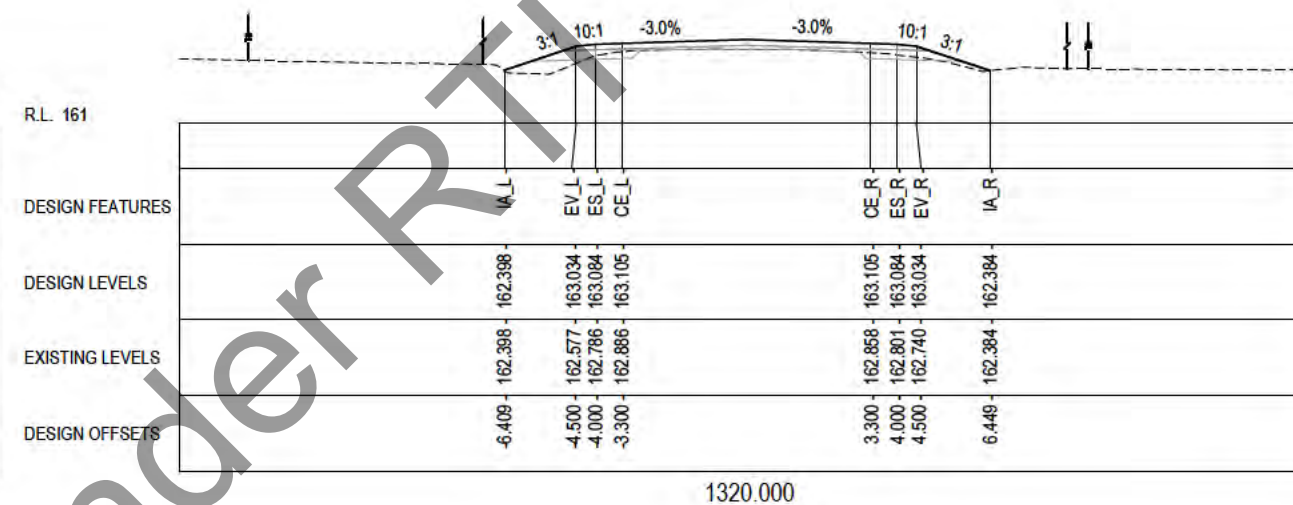
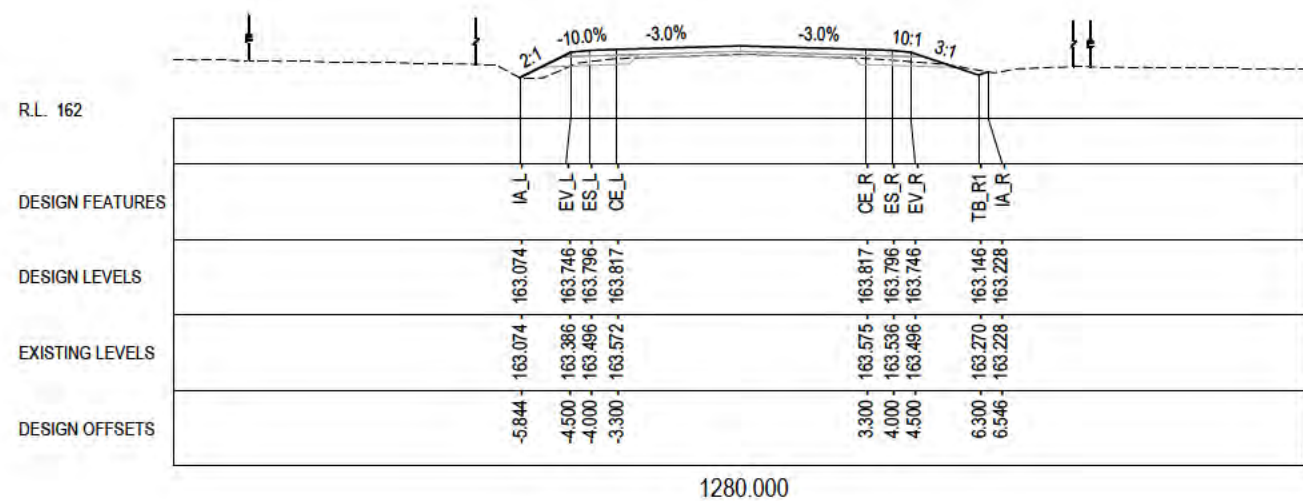


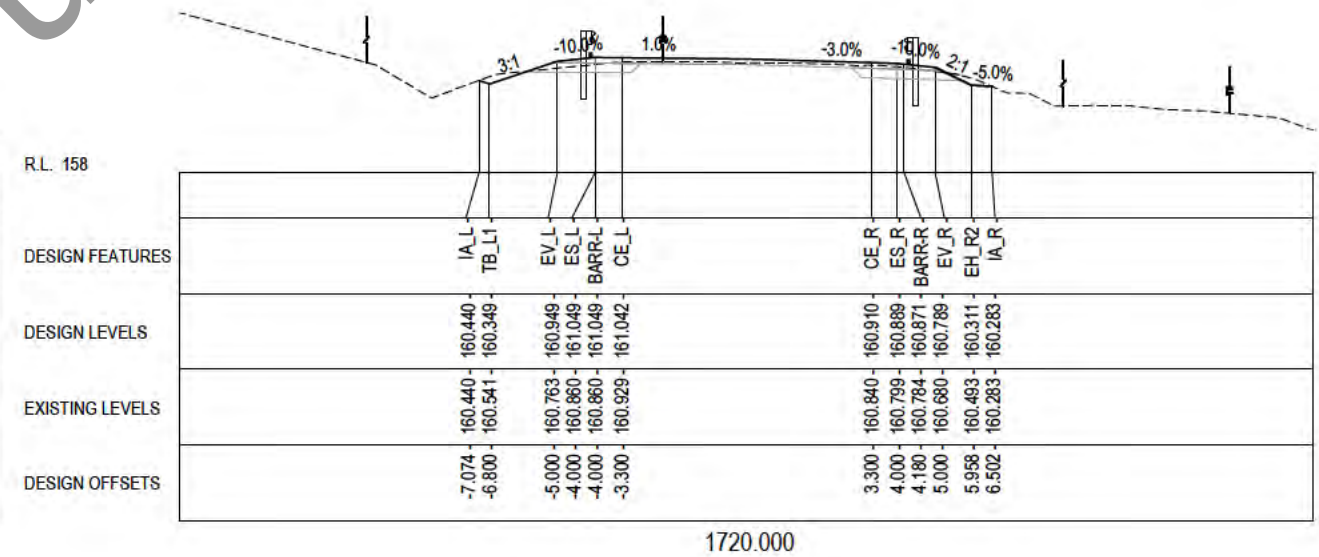
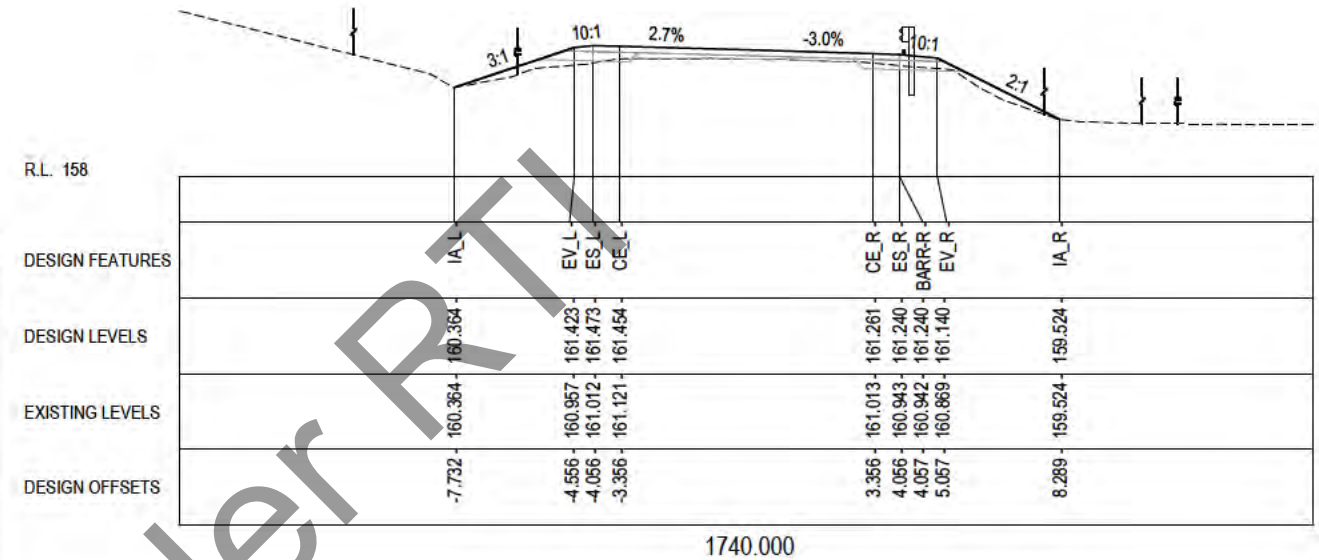
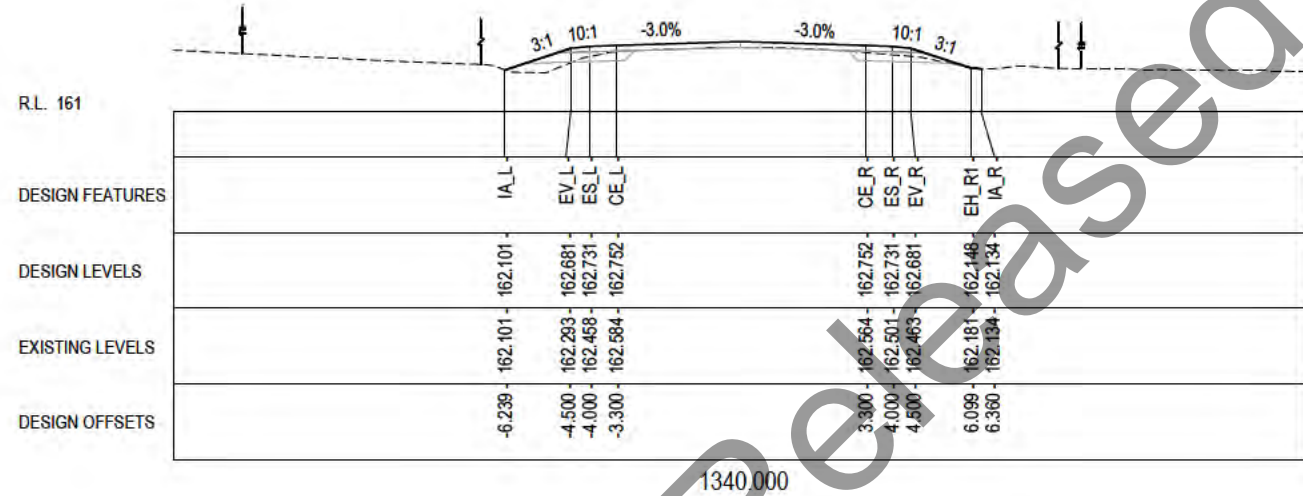
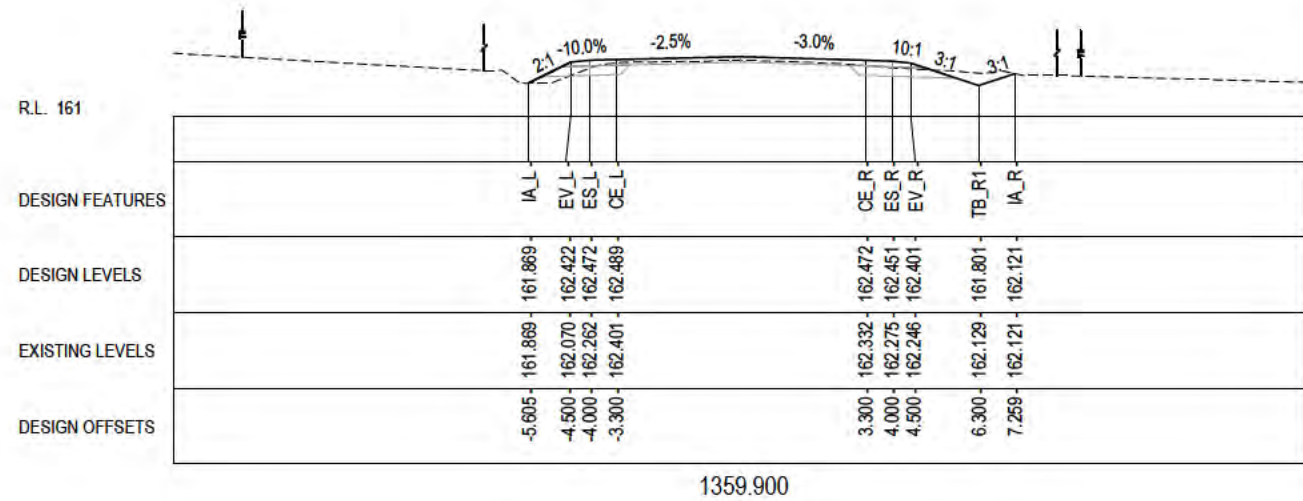




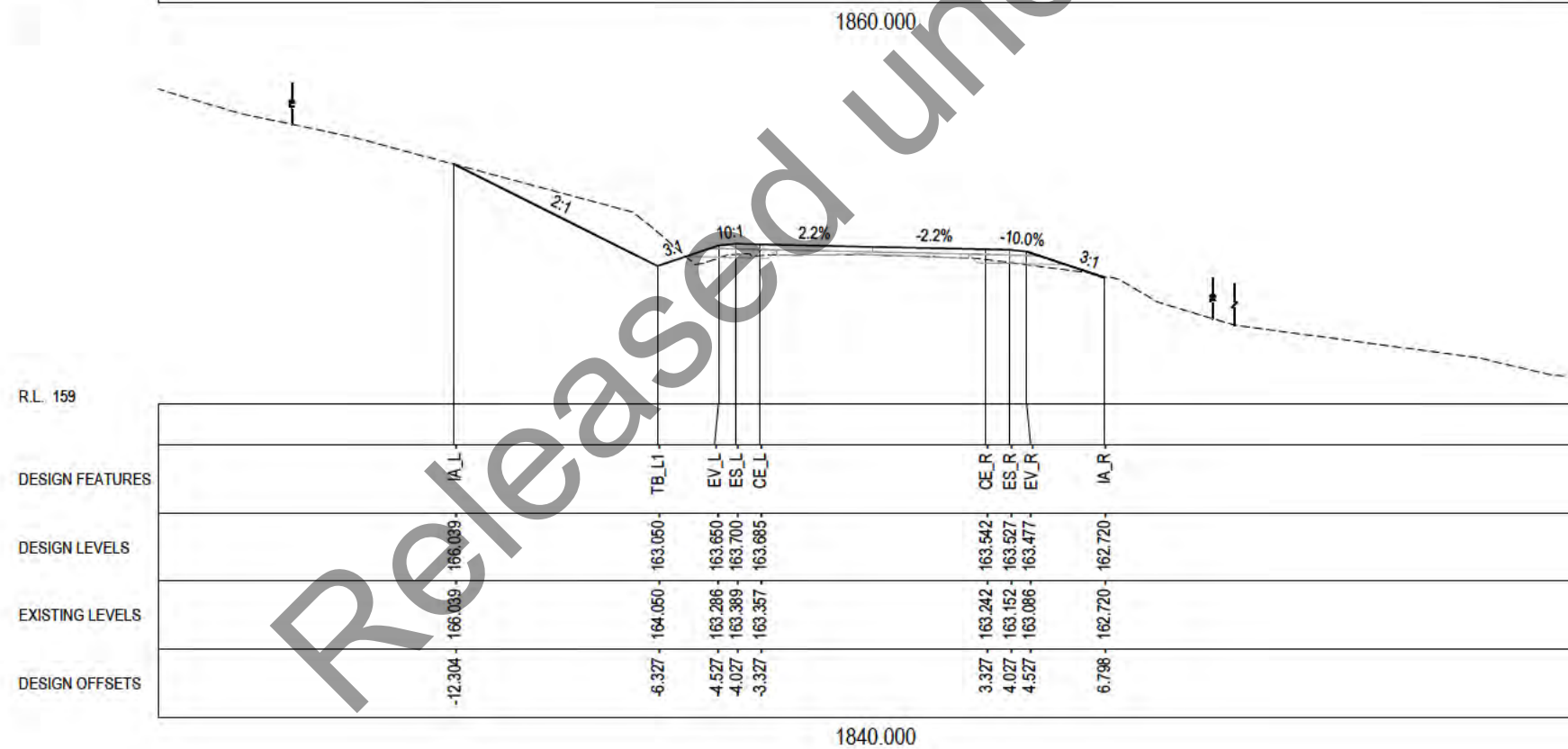
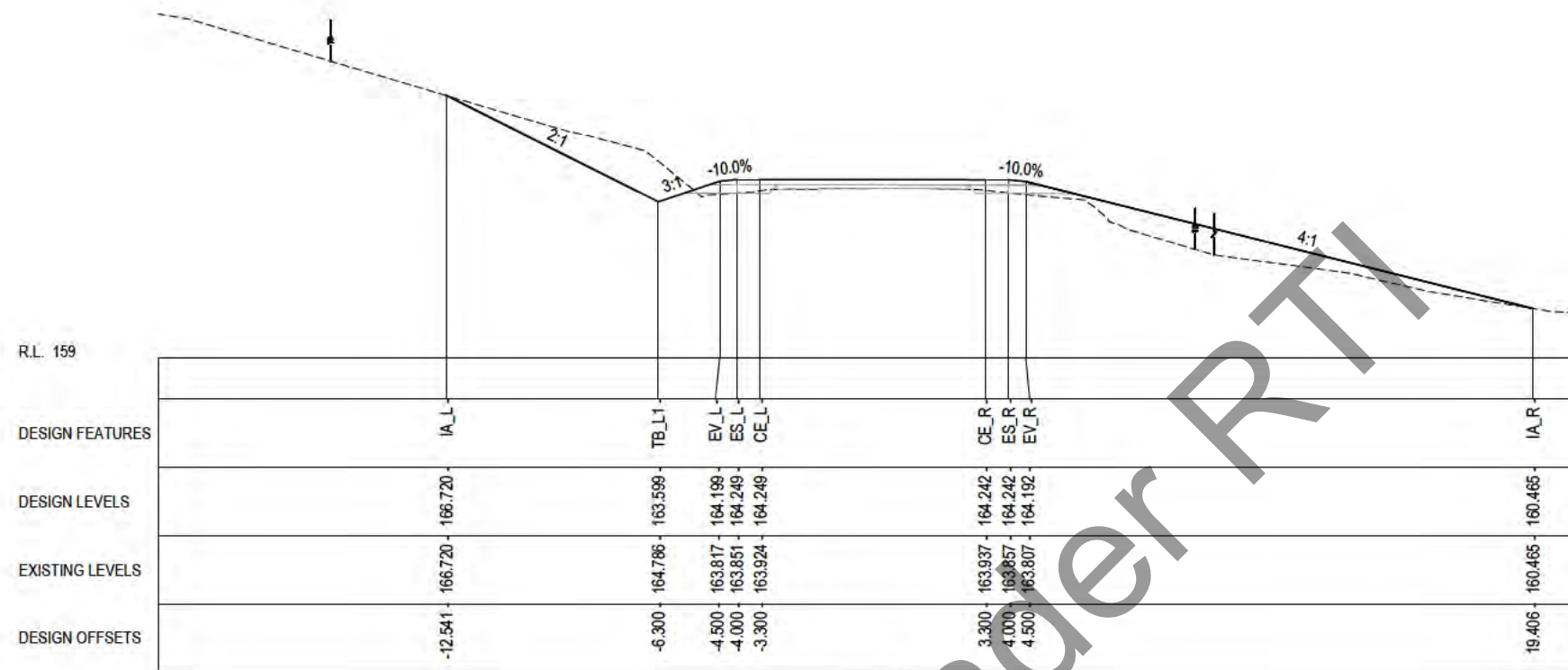


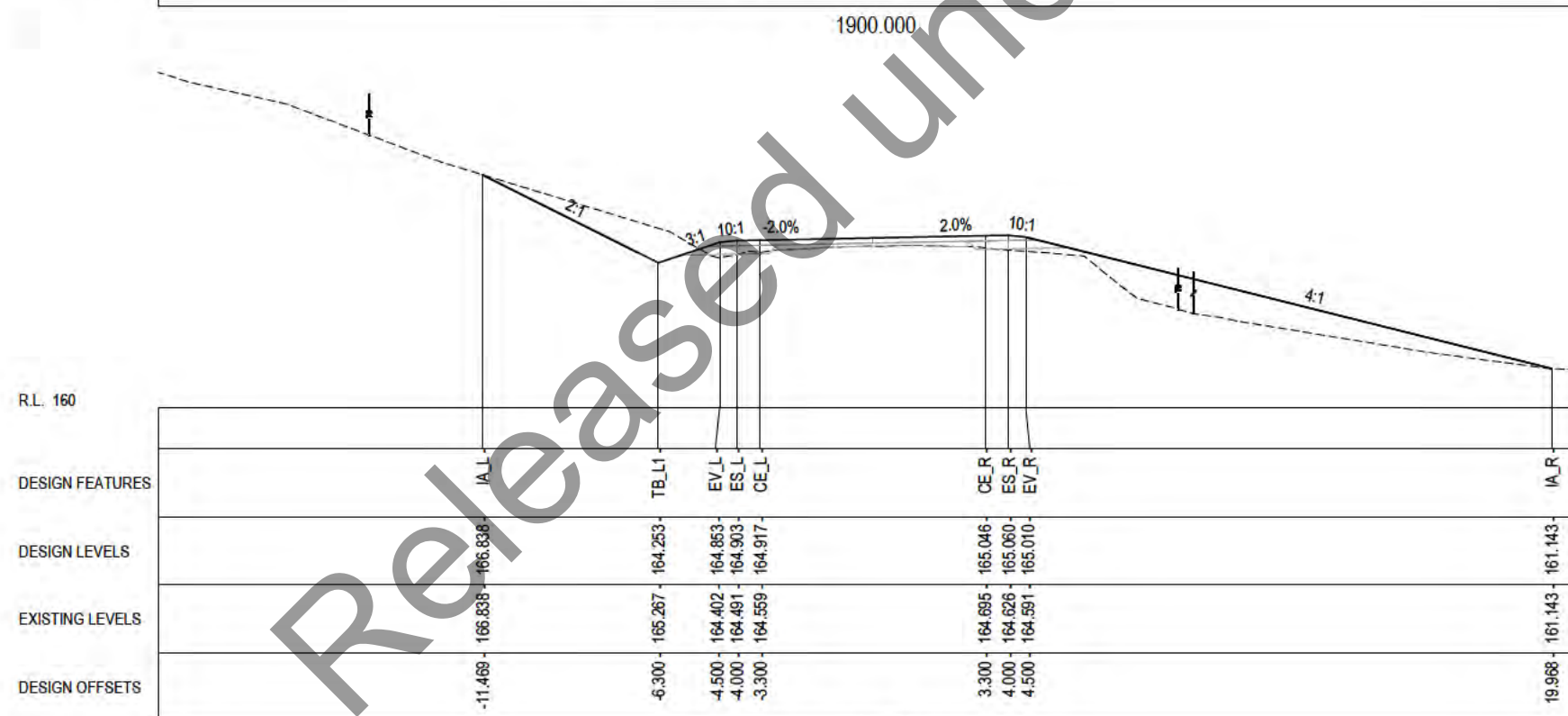
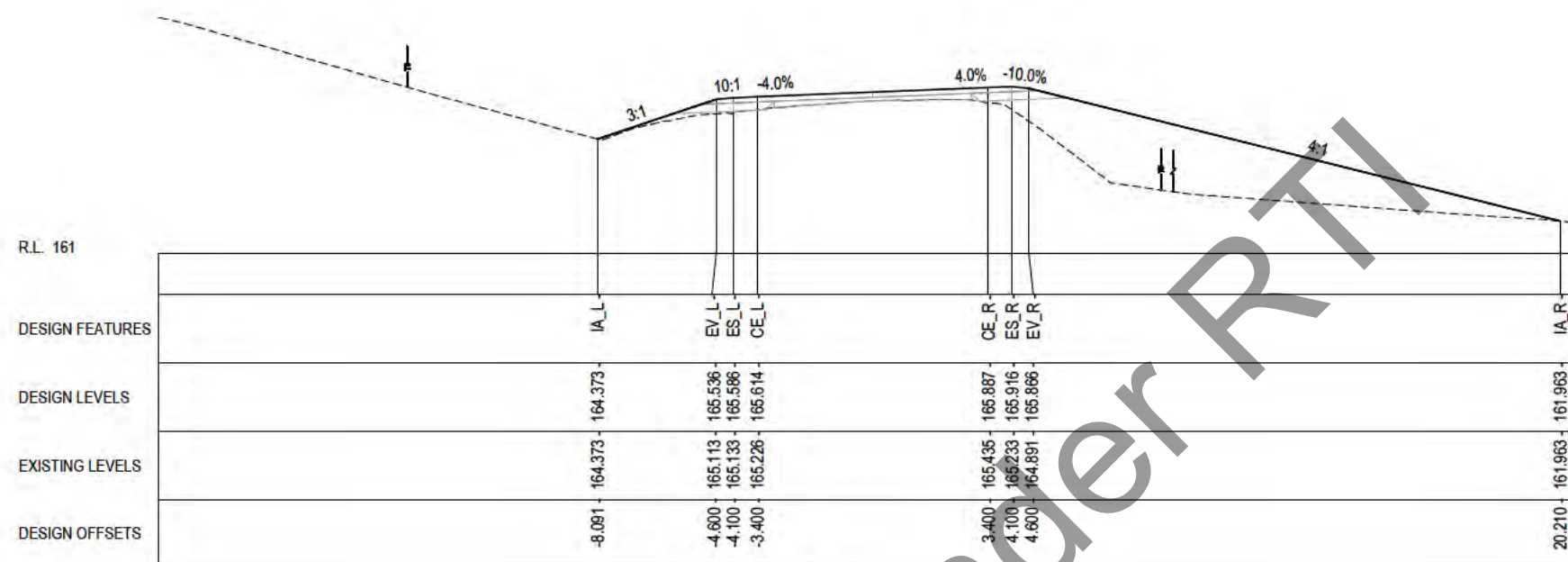






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						BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		3521	S-P.20.2000-00-CIV-DRG-2829	28-Jul-23, 2:04 PM	2829
A	PRELIMINARY DESIGN	L.J.B.	28/07/2023		DESIGNED	CROSS SECTIONS (DESIGN LINE CL94) - DRG 19	REGISTRATION NUMBER A1701.002				REVISION A
No.	Amendment Description	Initials	Date		REVIEWED						
A3 original	This sheet may be prepared using colour and may be incomplete if copied			Co-ordinate System: MGA-Z55 GDA20	Height Datum: A.H.D.						





				Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
						3521	S-P.20.2000-00-CIV-DRG-2831	28-Jul-23, 2:04 PM	2831
						REGISTRATION NUMBER			
						A1701.002			
						REVISION A			

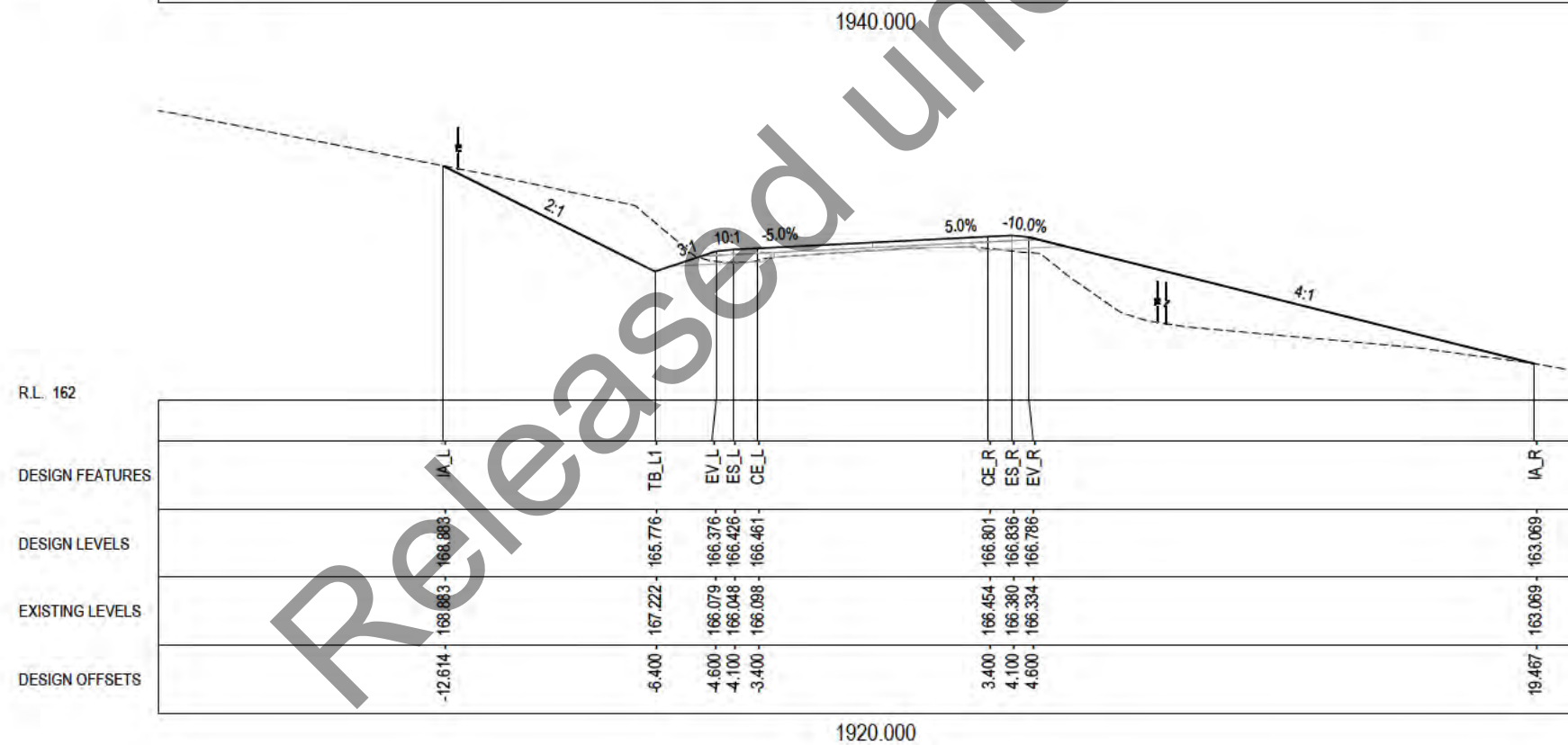
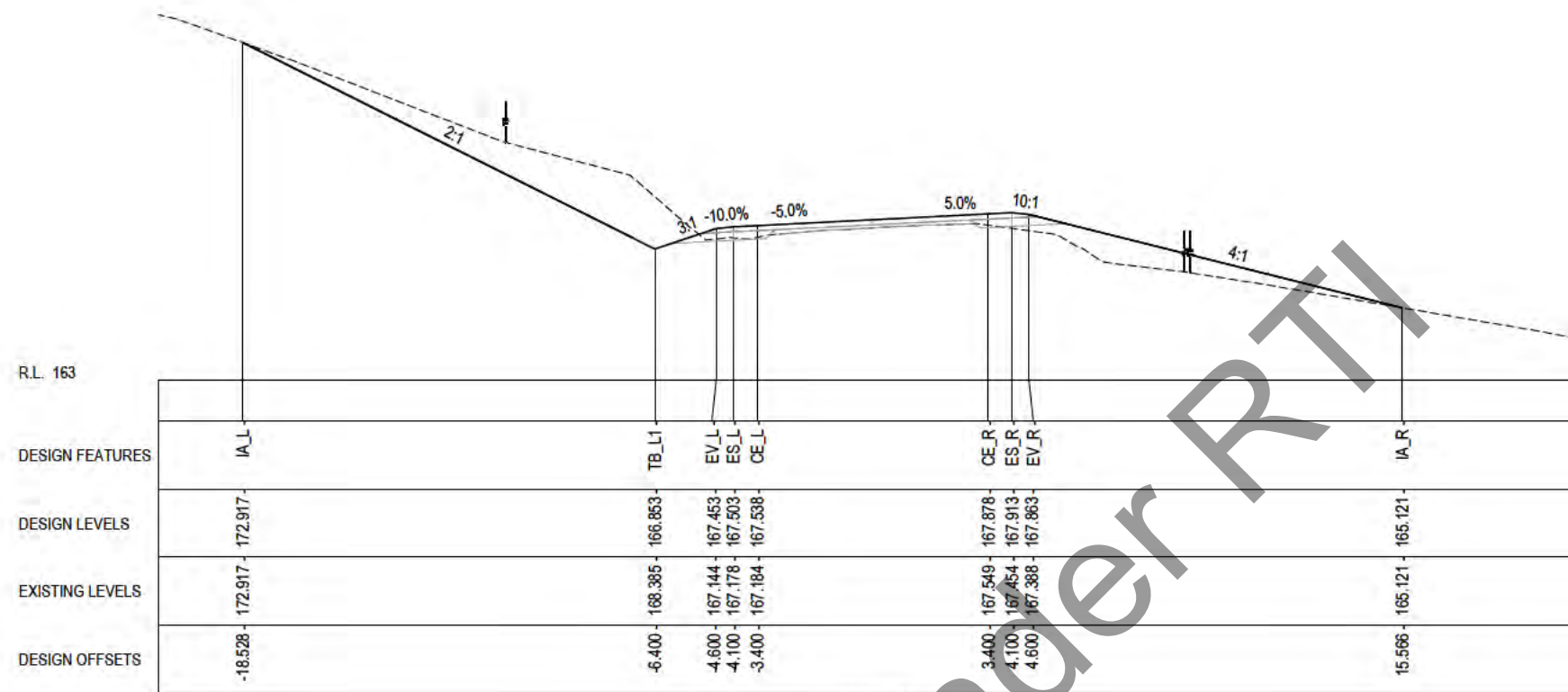
Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		CROSS SECTIONS (DESIGN LINE CL94) - DRG 21	
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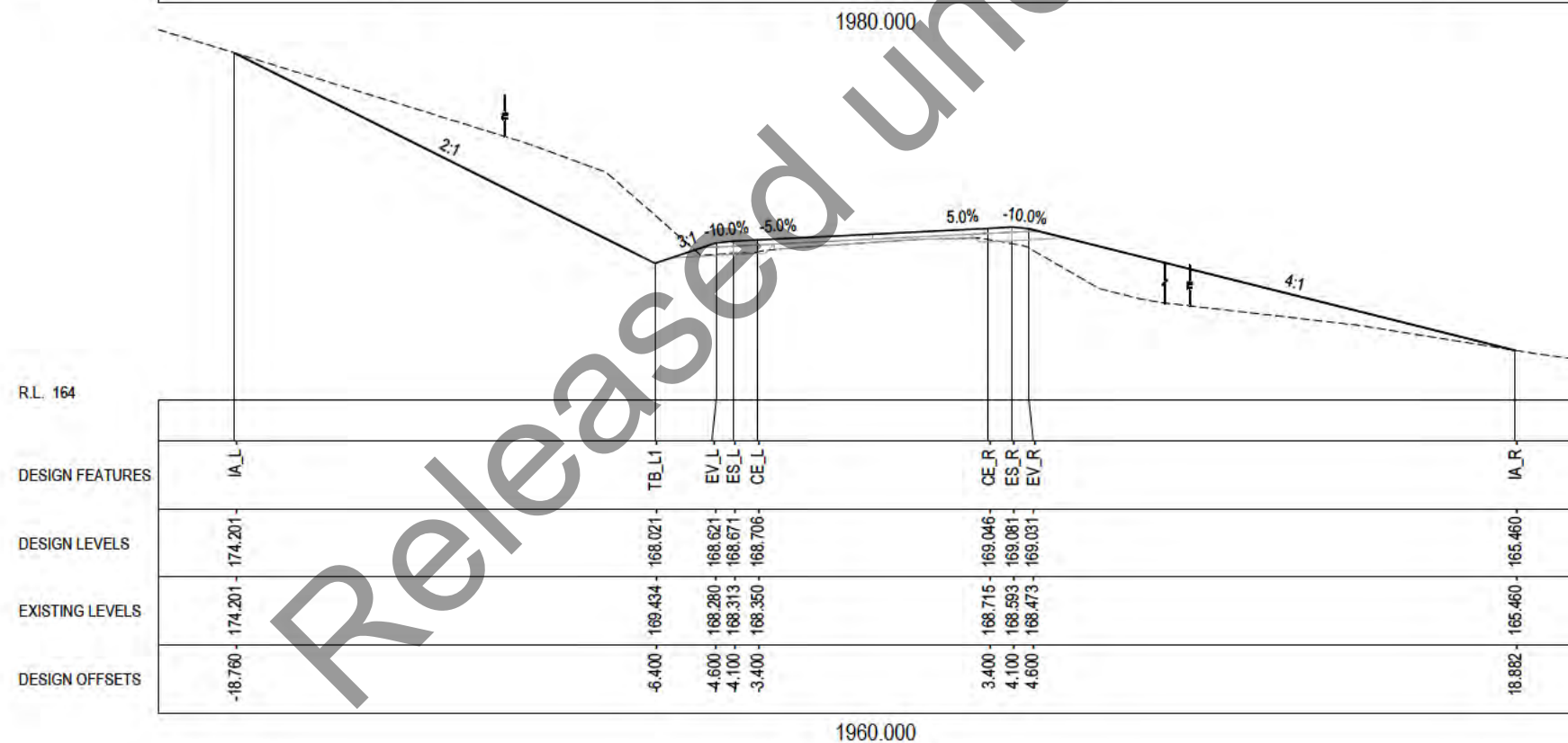
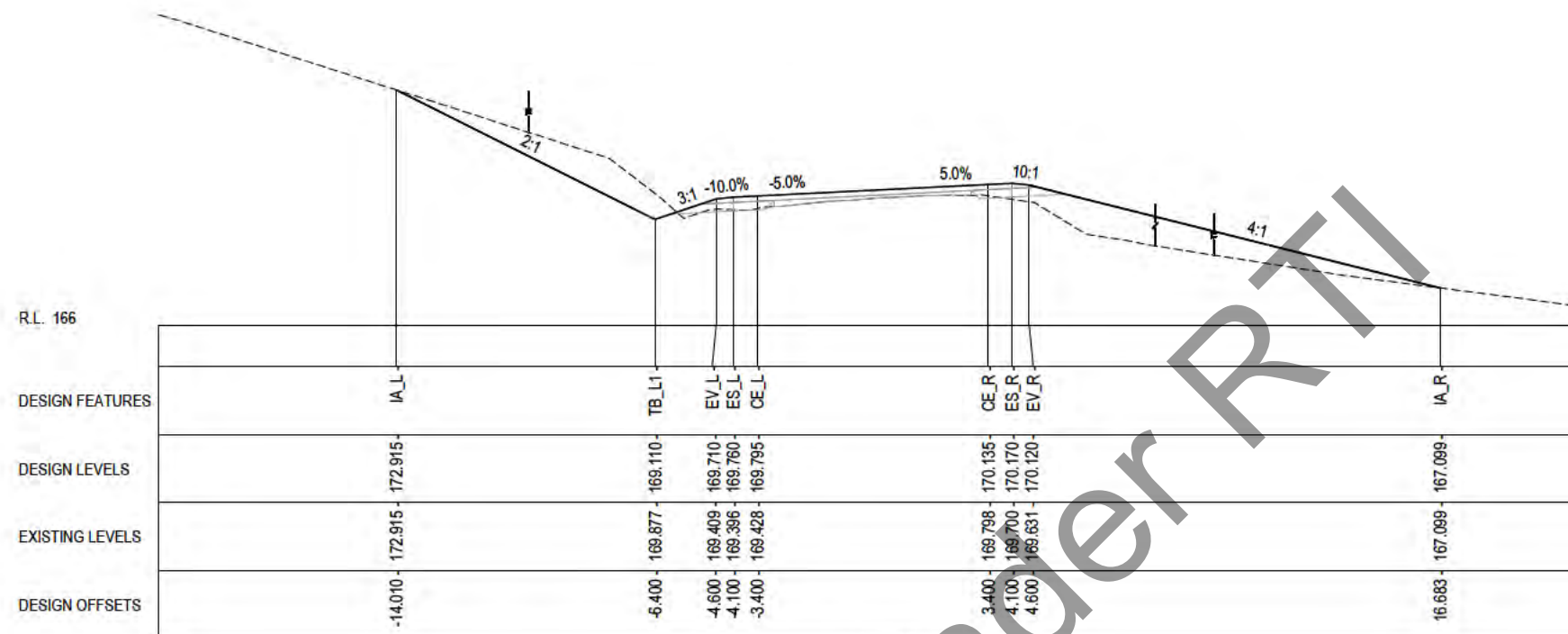
DESIGNED REVIEWED	DESIGNED REVIEWED
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SCALE IN METRES - 1:200 2 0 2 4 6 8	Co-ordinate System: MGA-Z55 GDA20 Height Datum: A.H.D.
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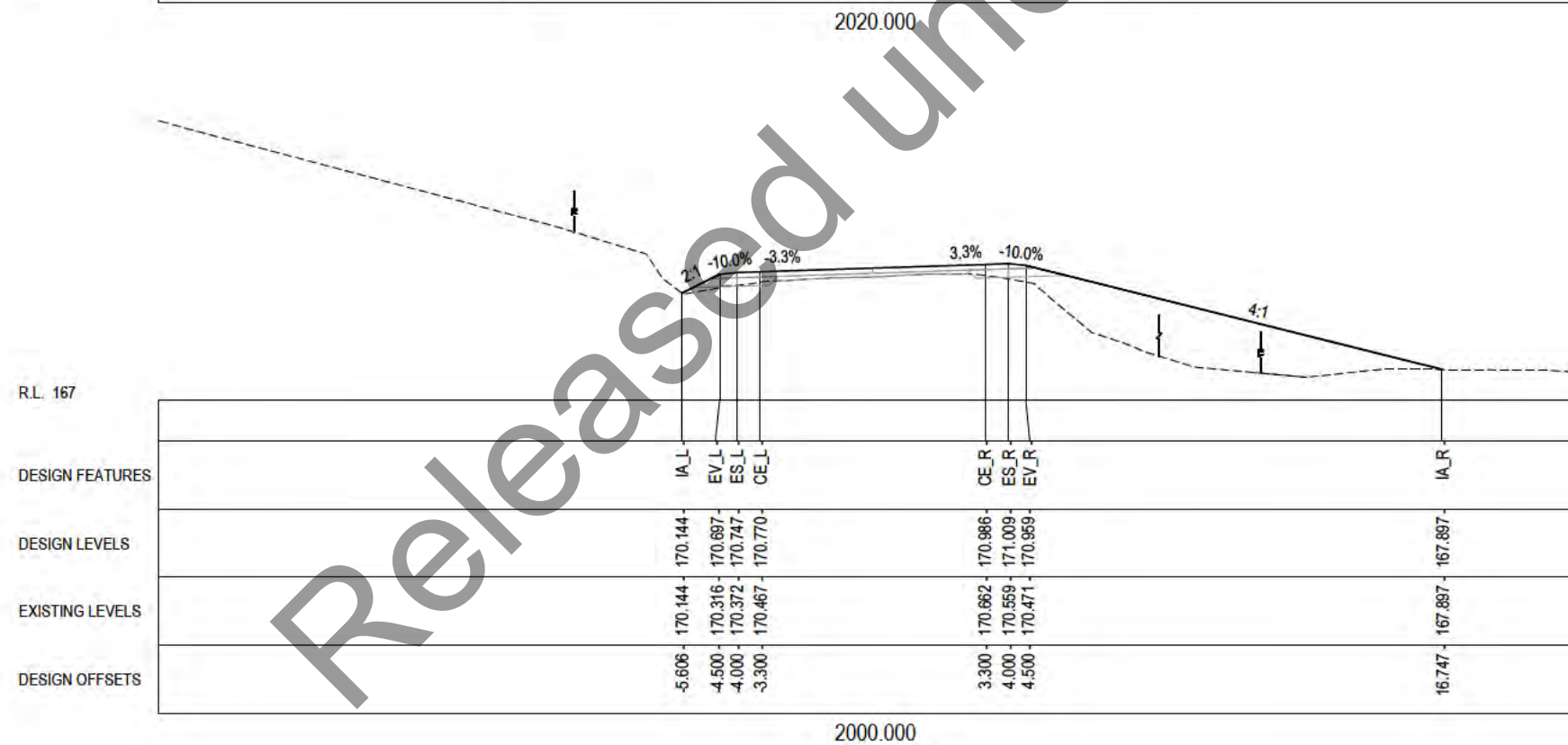
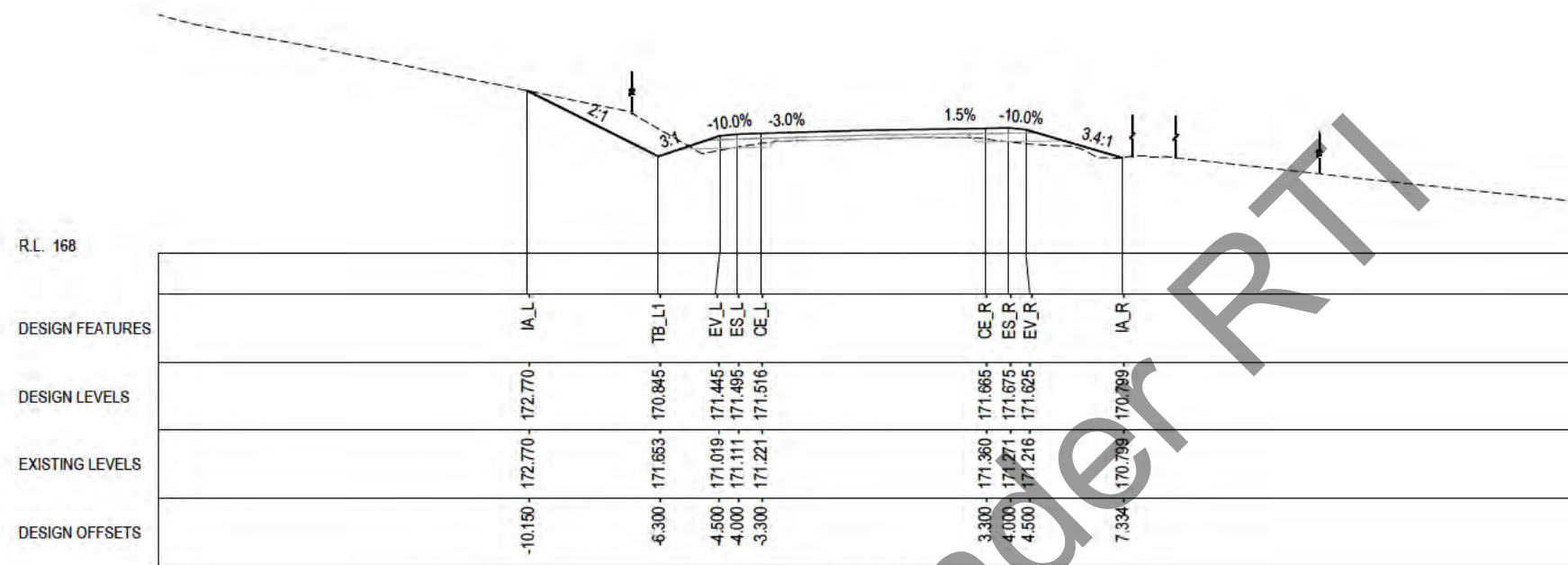
PRELIMINARY DESIGN Amendment Description	L.J.B. Initials	28/07/2023 Date
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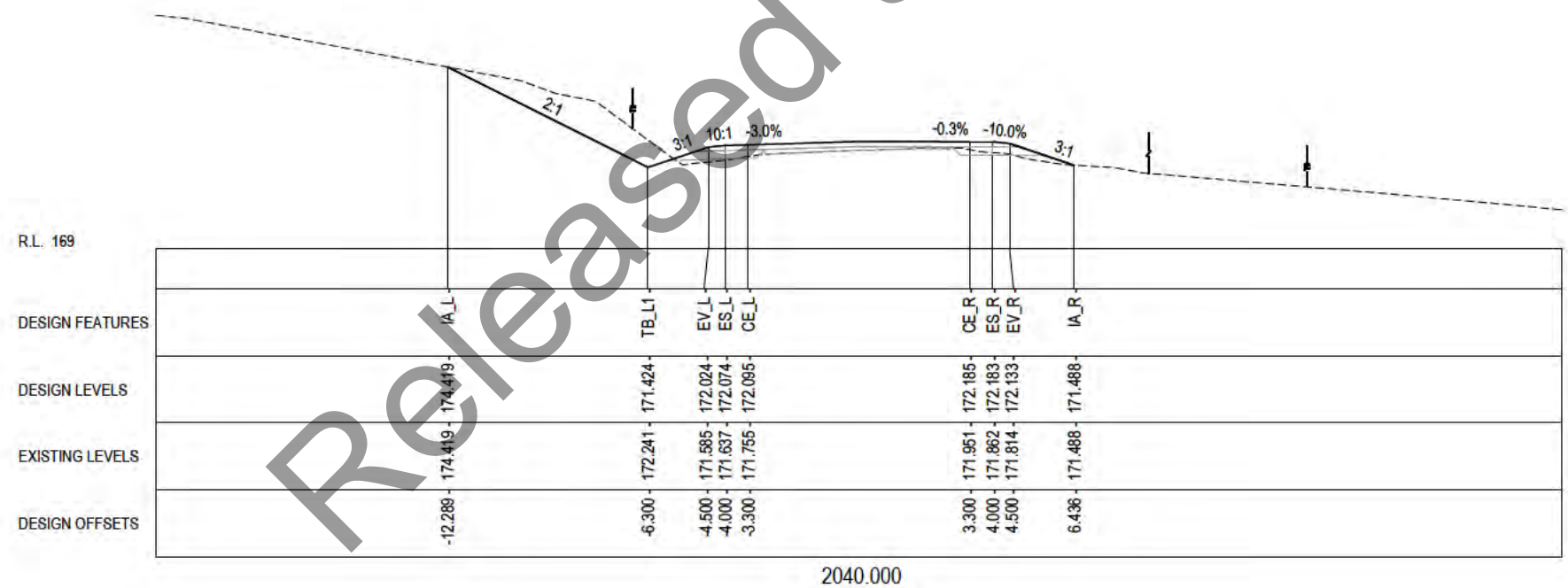
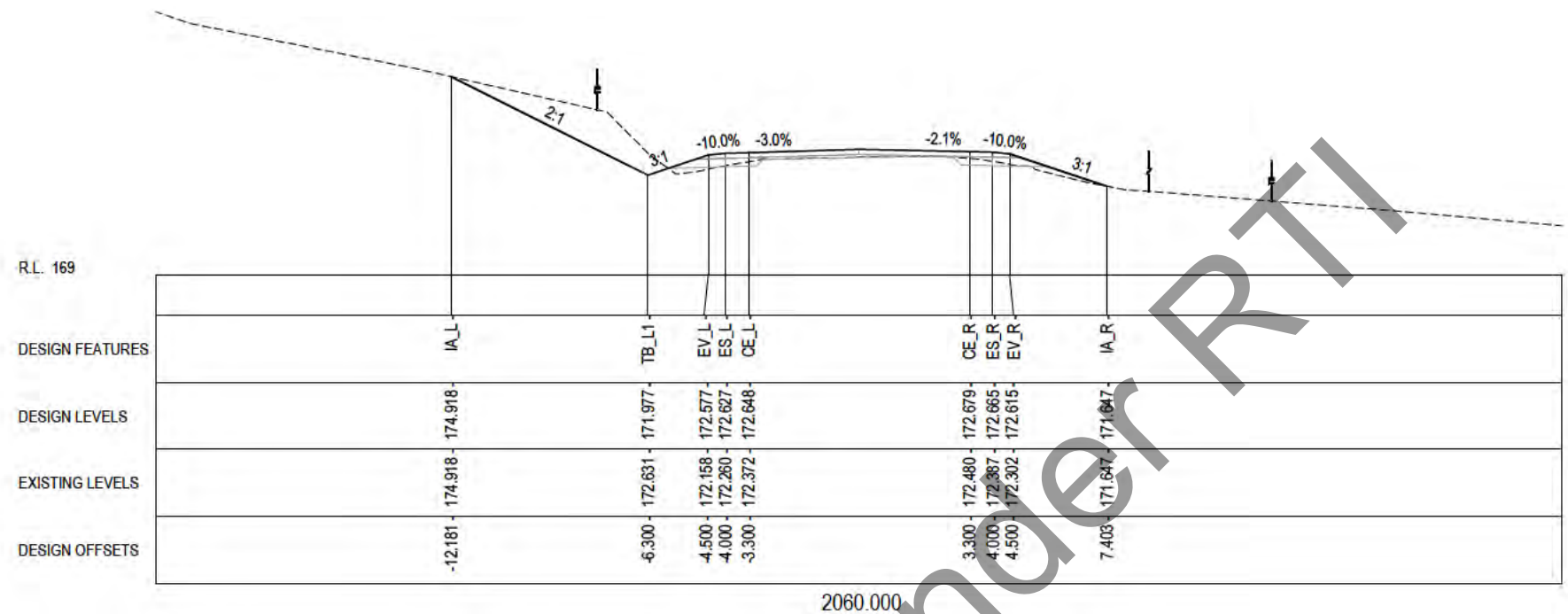
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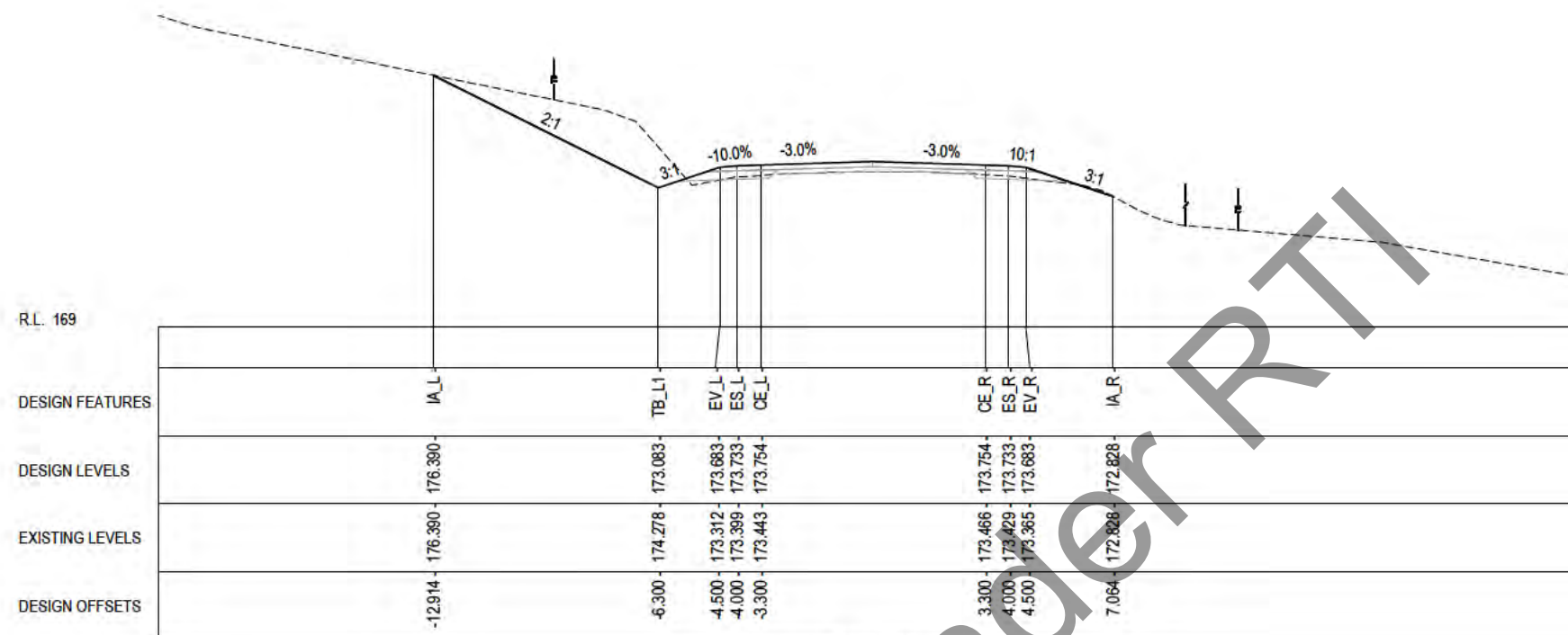




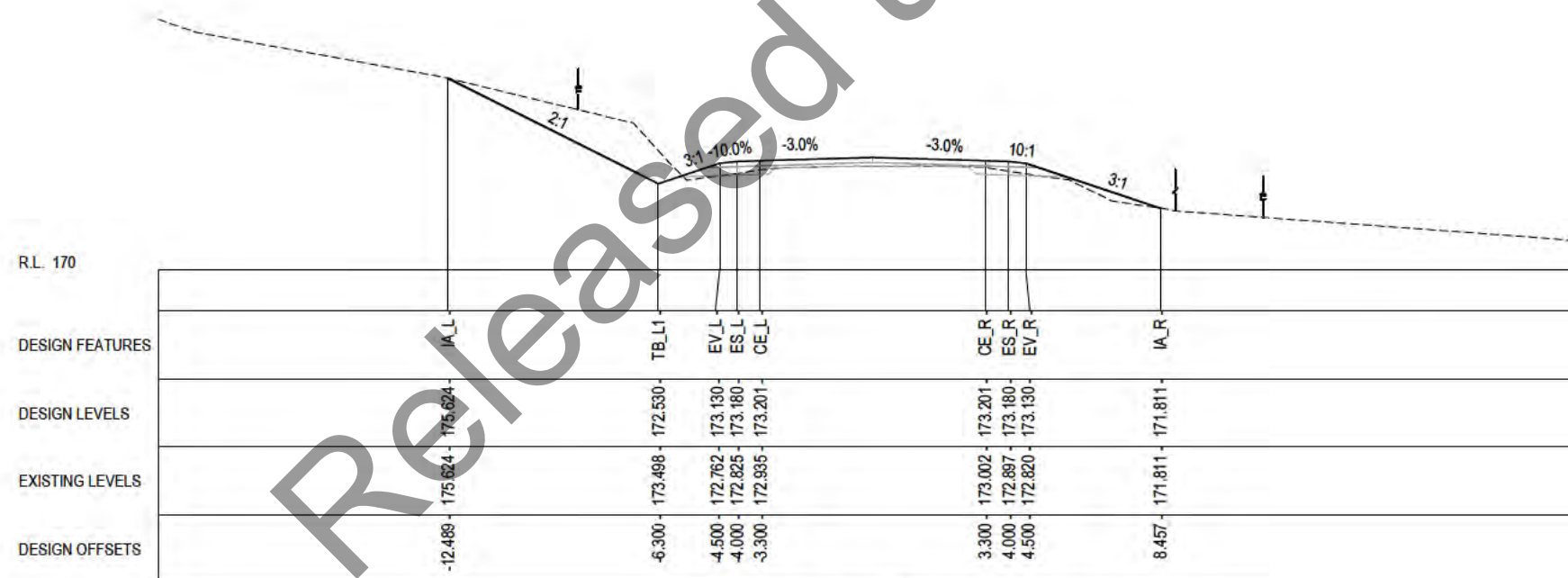
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A PRELIMINARY DESIGN No. Amendment Description		L.J.B. Initials		28/07/2023 Date				REGISTRATION NUMBER A1701.002		REVISION A	
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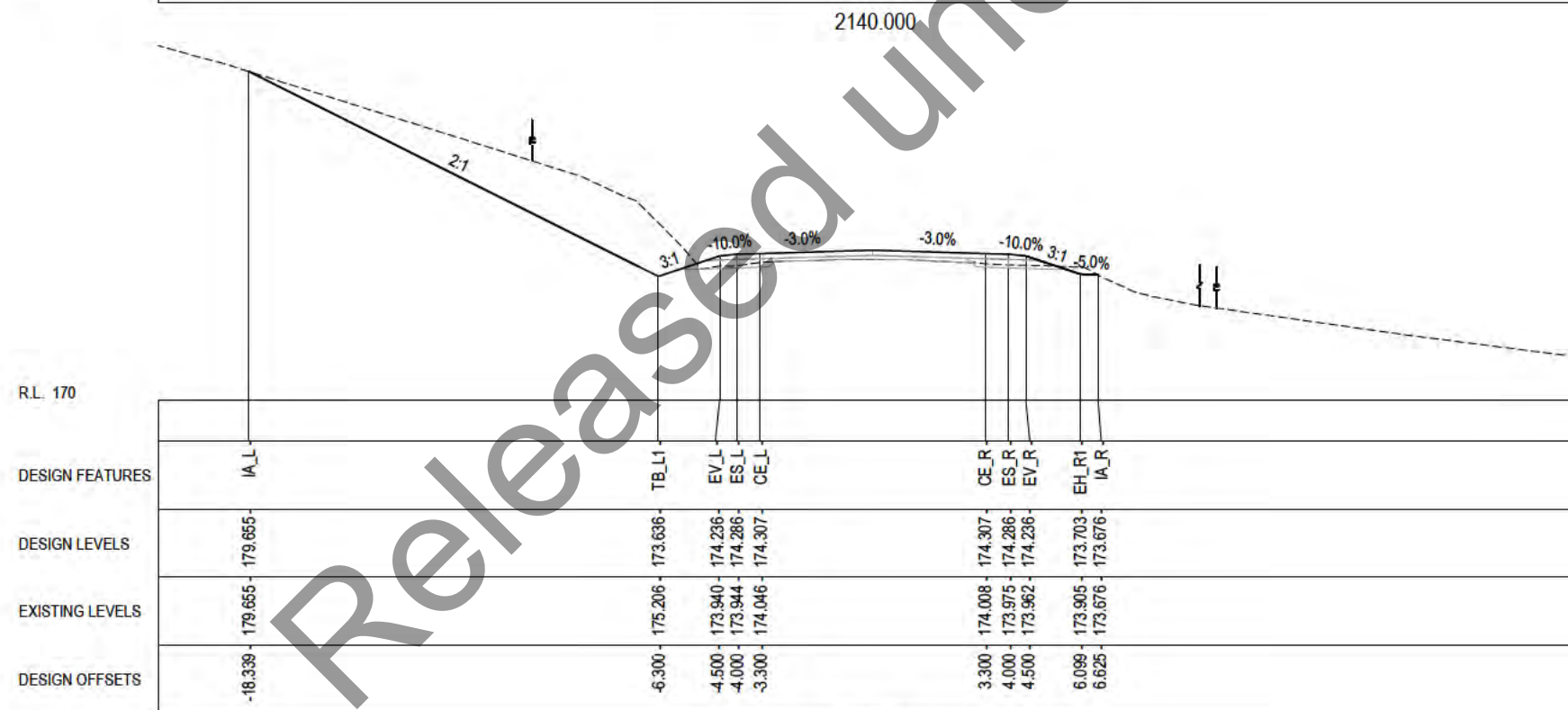
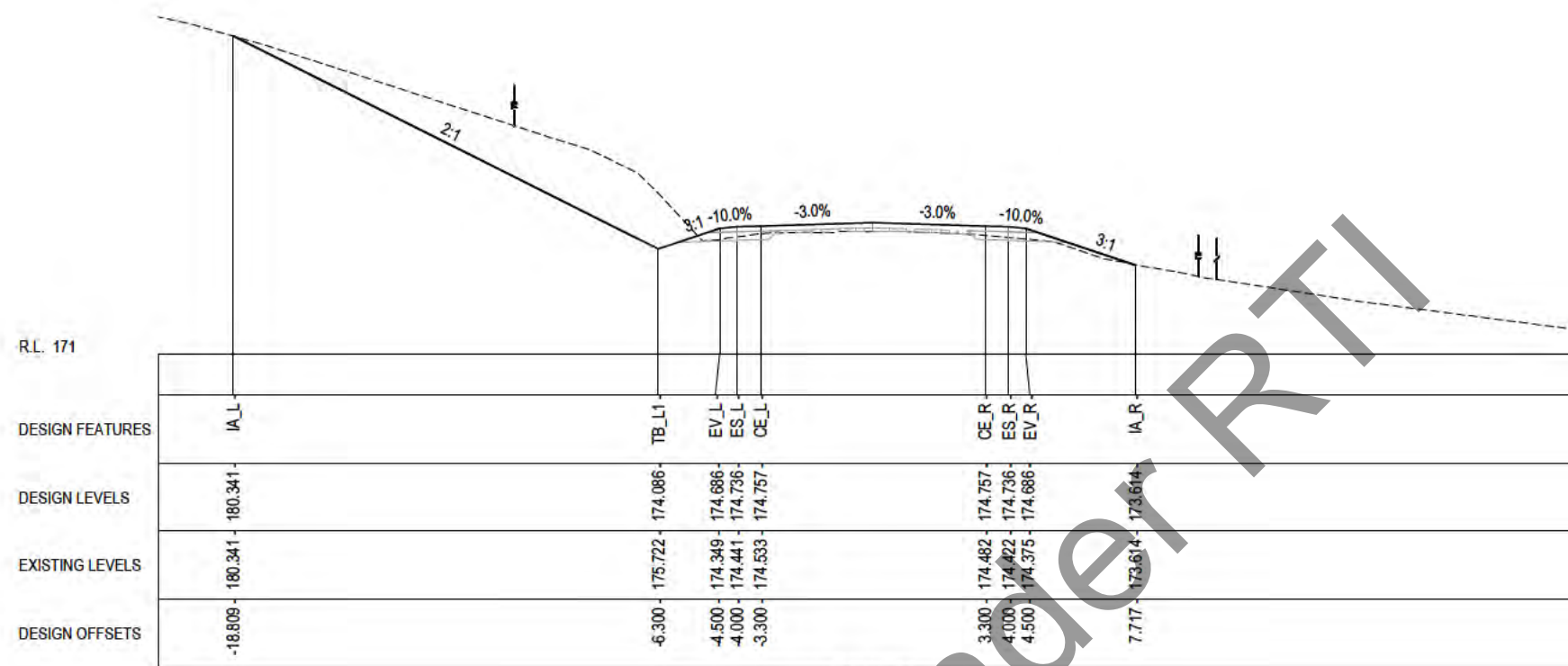


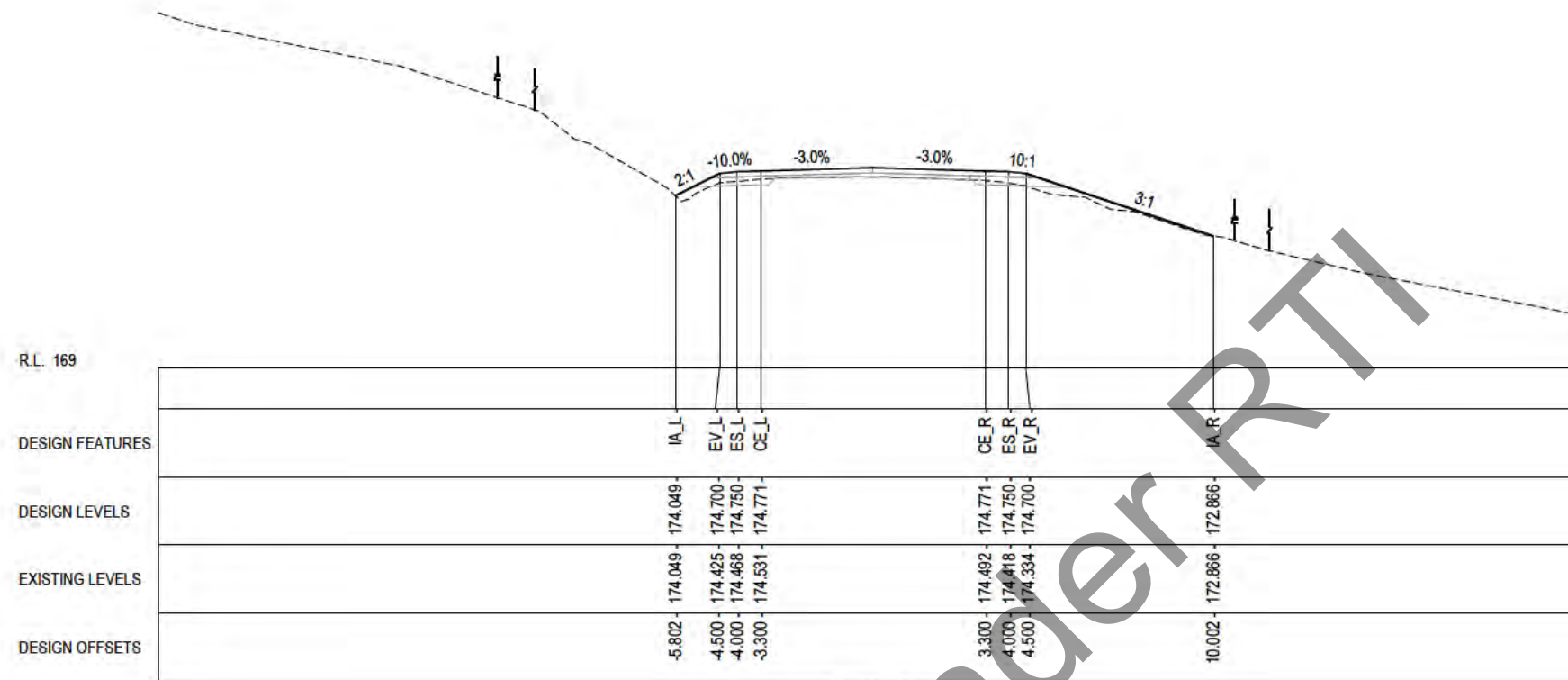
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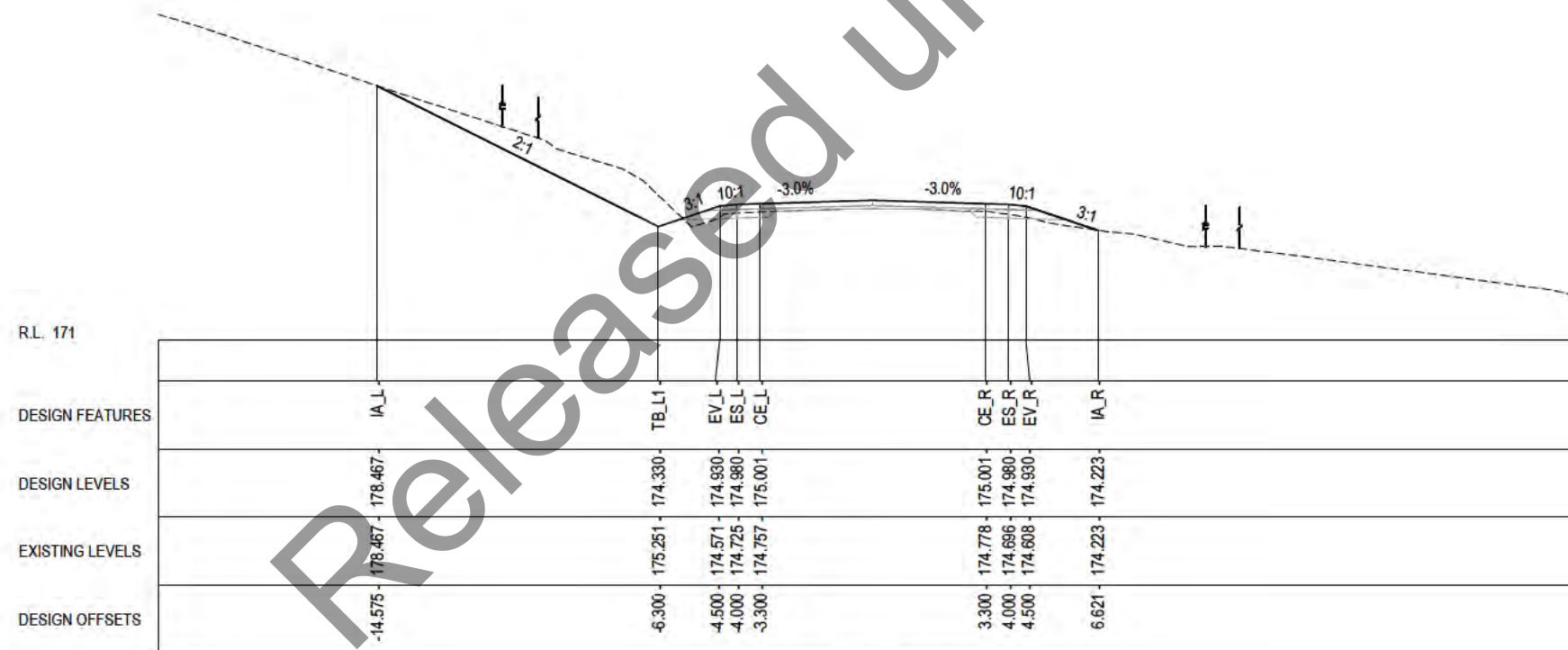
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A PRELIMINARY DESIGN No. Amendment Description		L.J.B. Initials		28/07/2023 Date						REGISTRATION NUMBER A1701.002		REVISION A	
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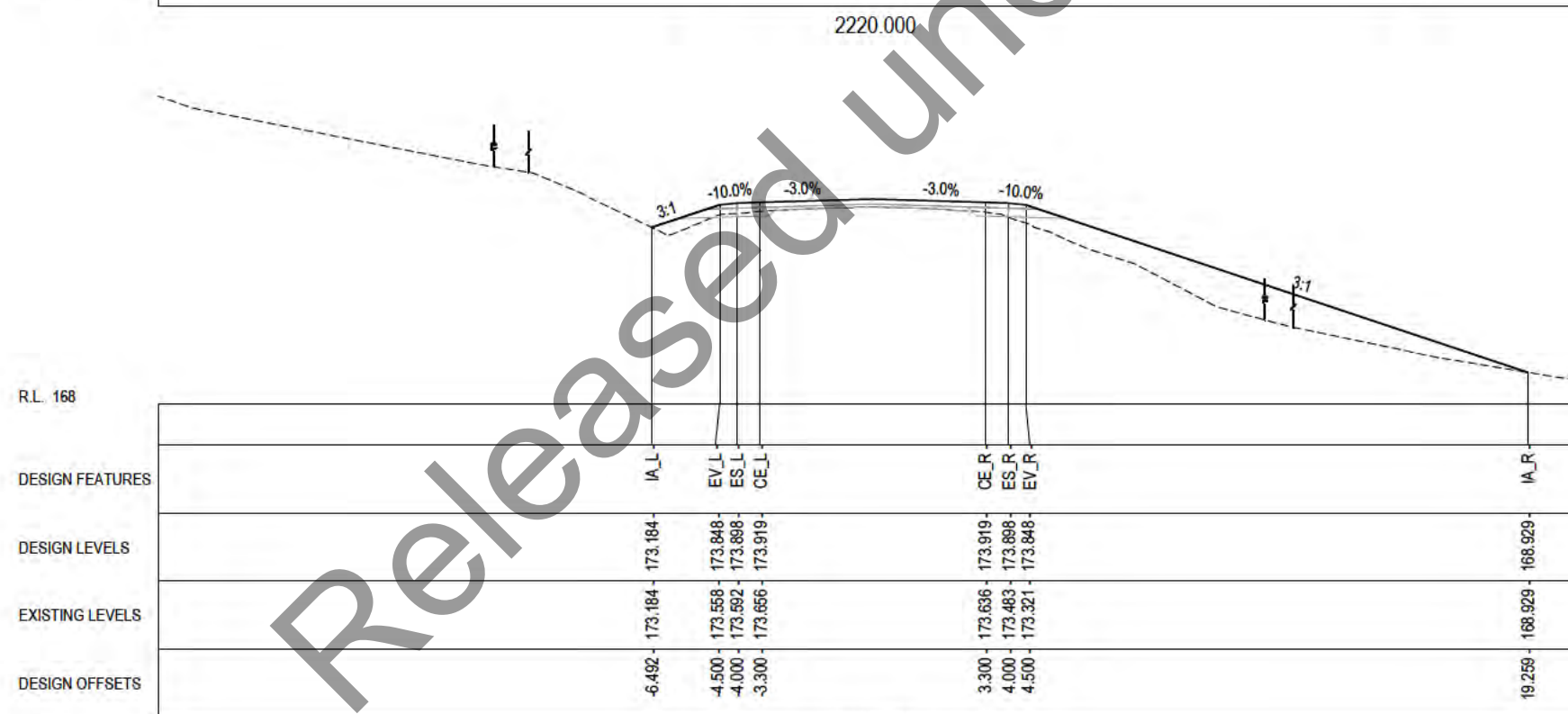
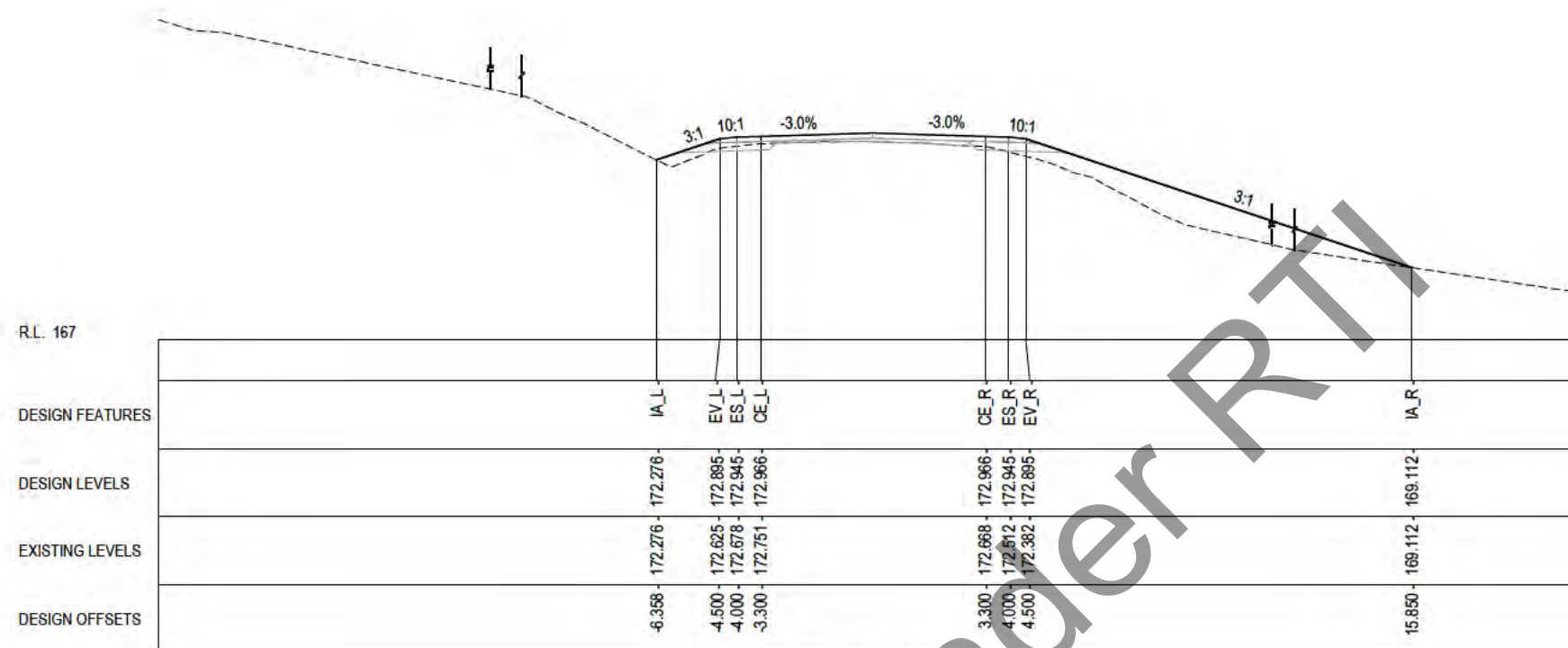
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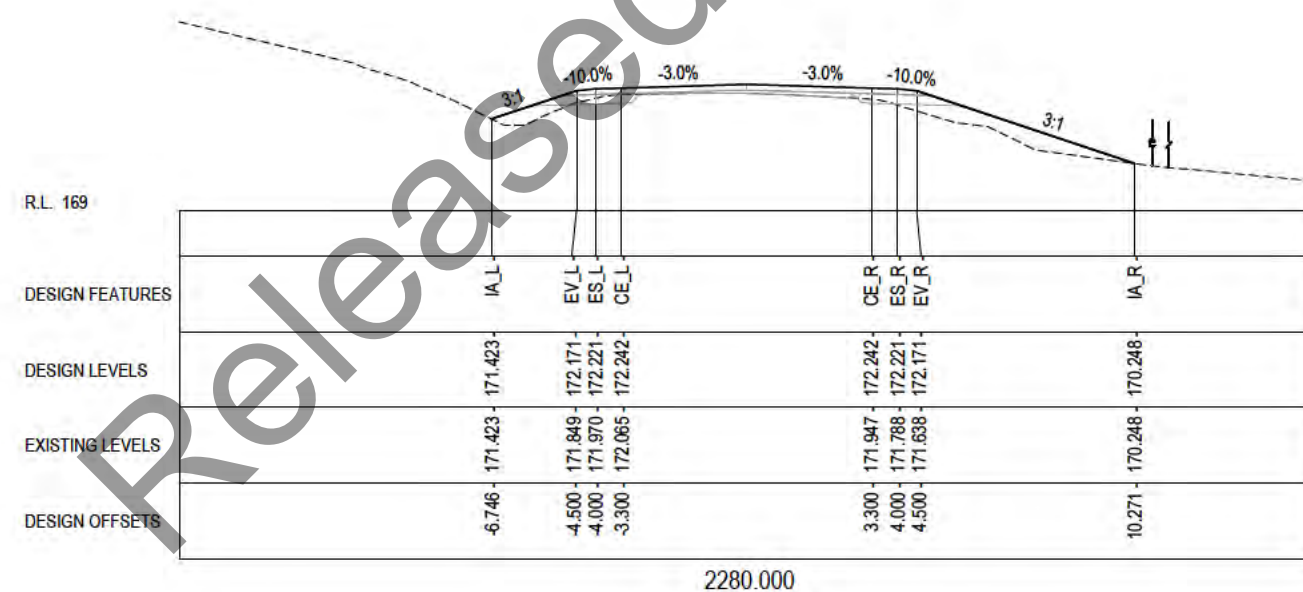
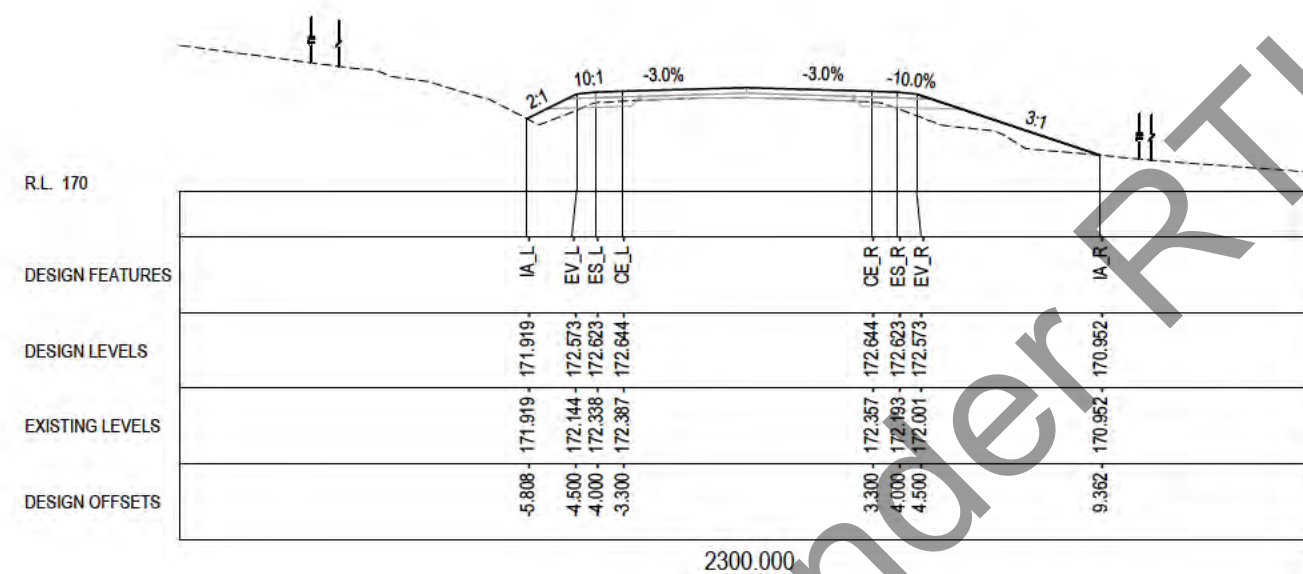
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A PRELIMINARY DESIGN No. Amendment Description		L.J.B. Initials Date		Co-ordinate System: MGA-Z55 GDA20 Height Datum: A.H.D.		DESIGNED REVIEWED		CROSS SECTIONS (DESIGN LINE CL94) - DRG 28		REGISTRATION NUMBER A1701.002		REVISION A	

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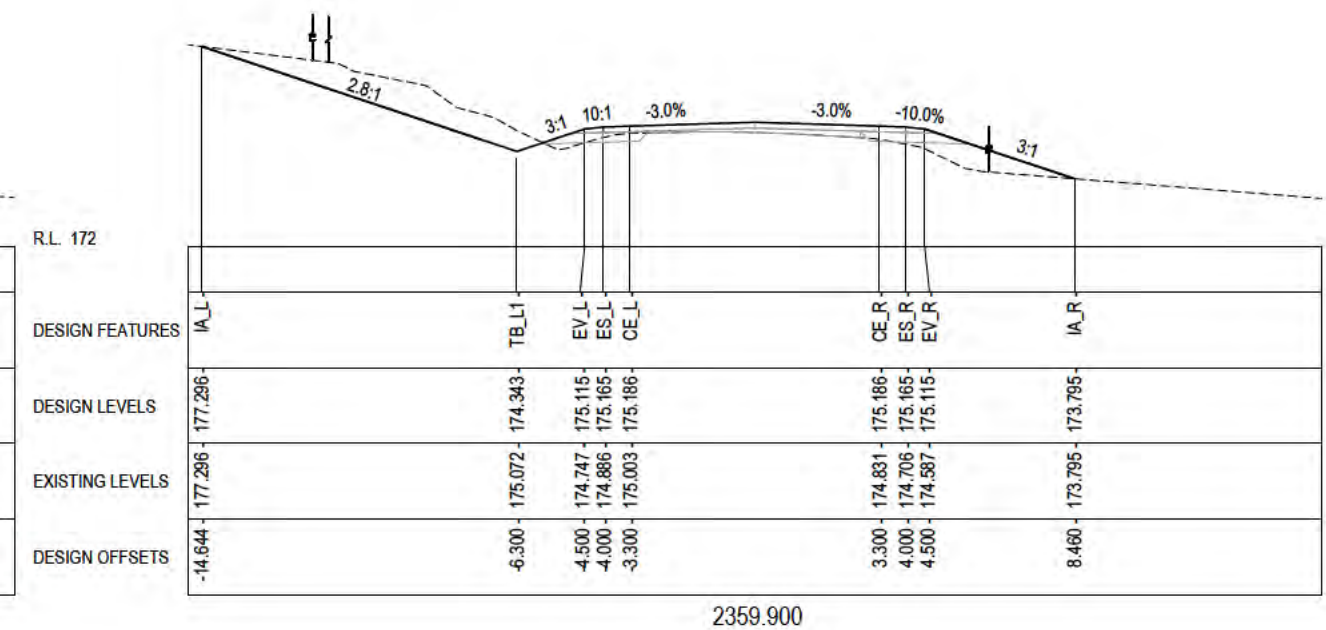
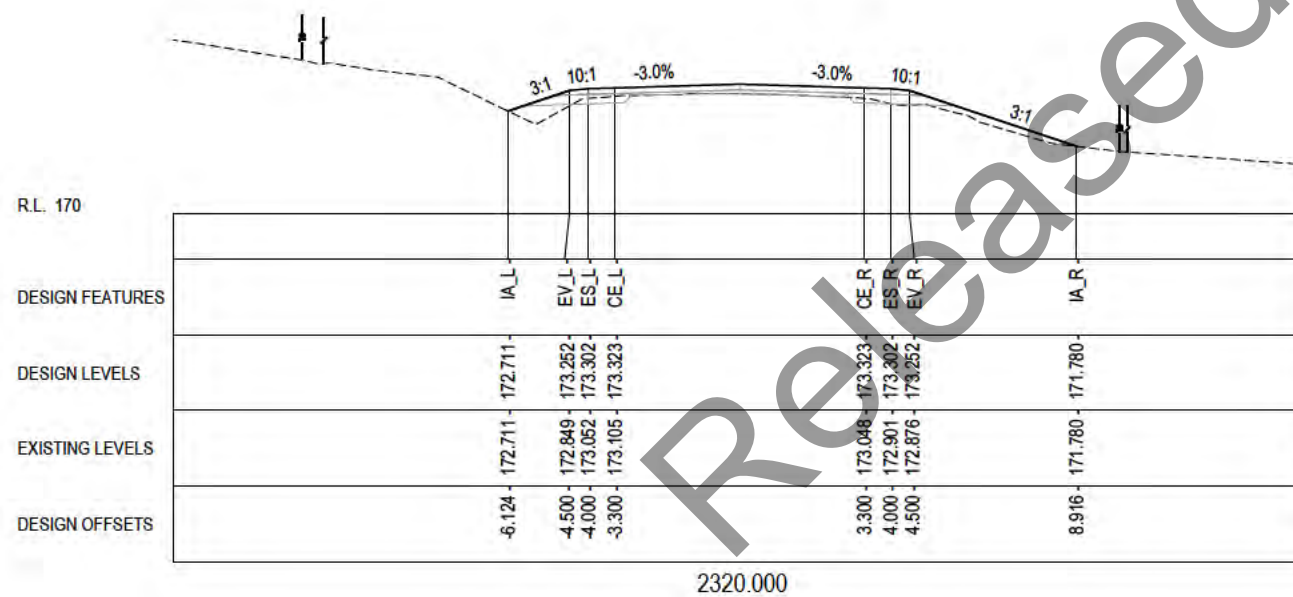
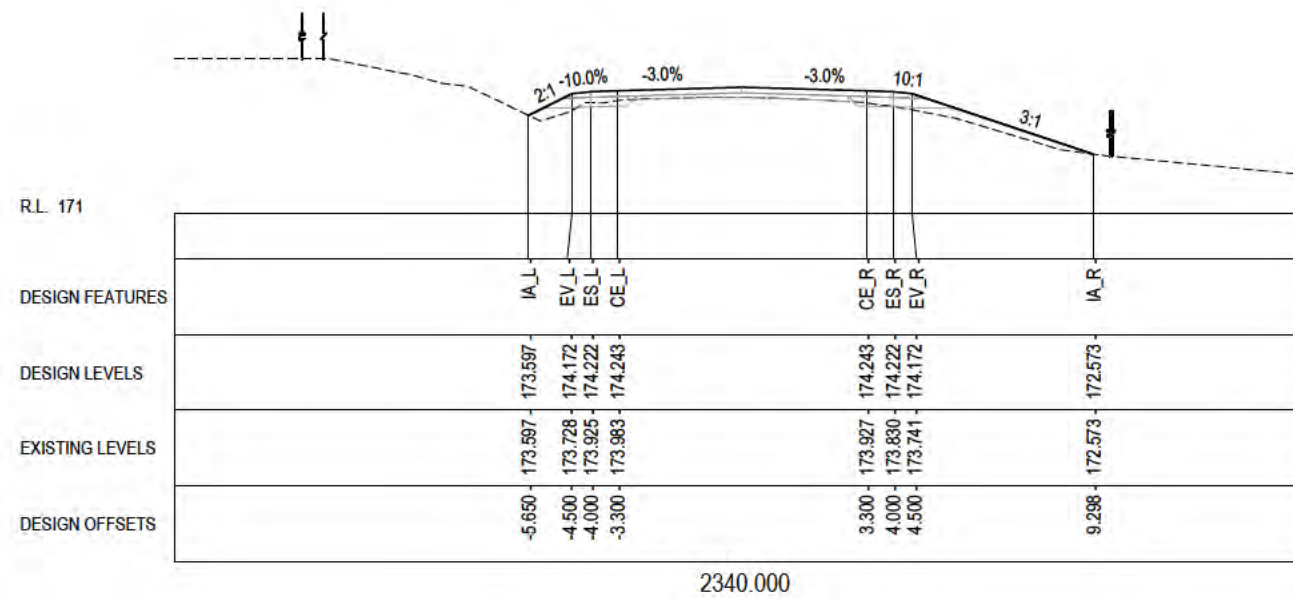


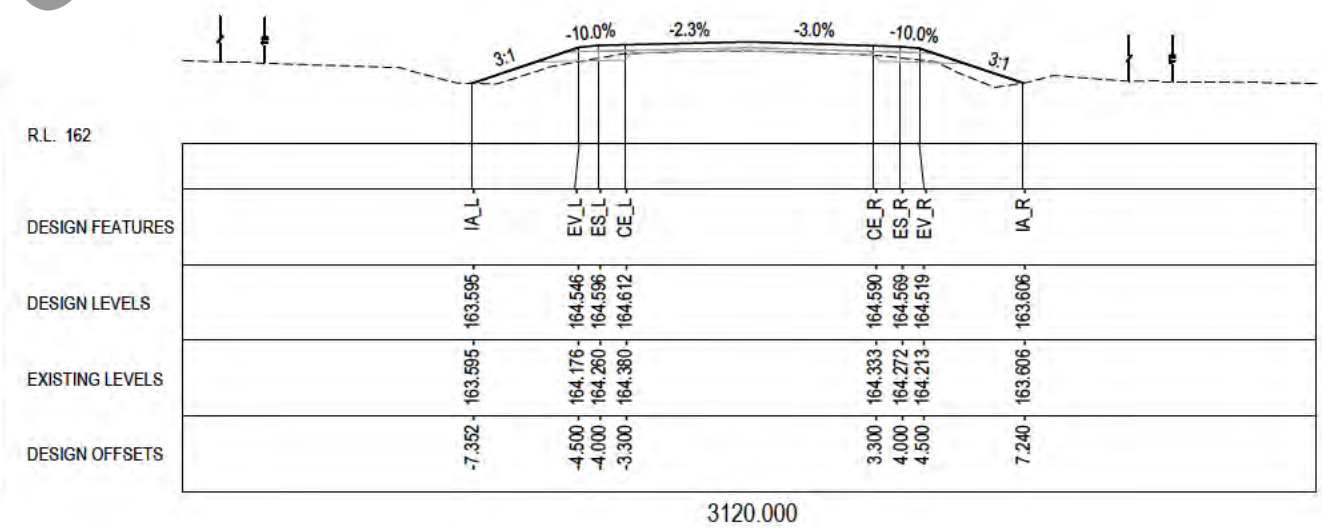
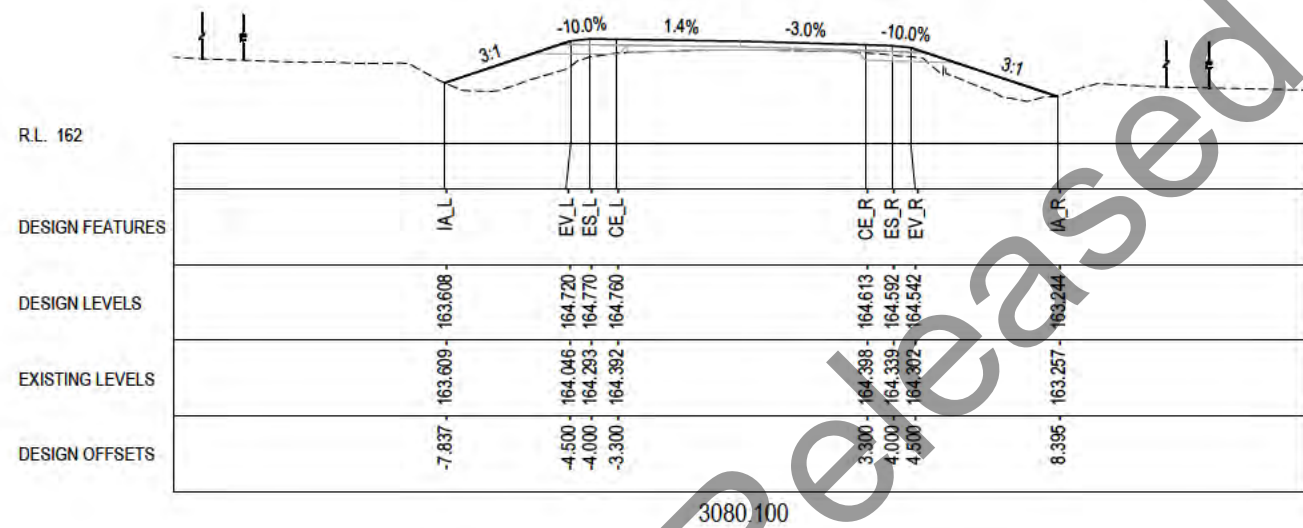
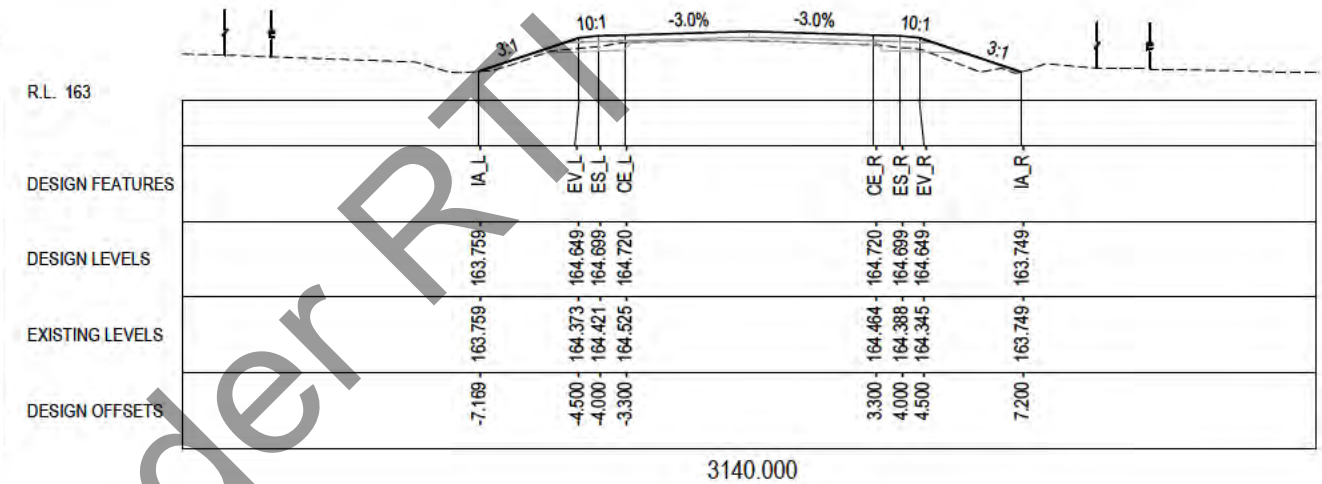
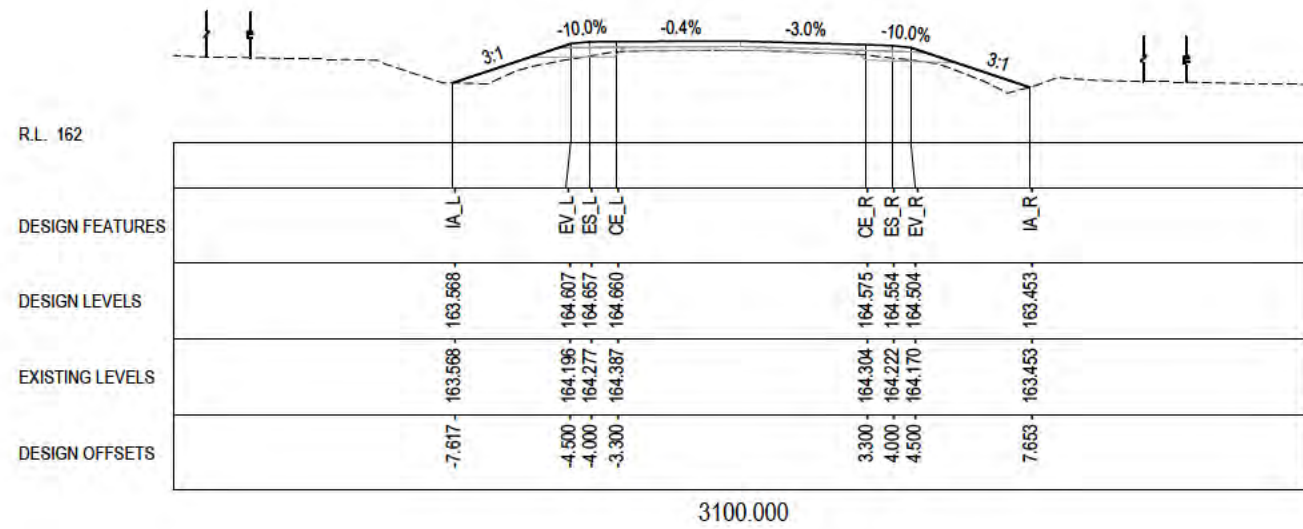
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A PRELIMINARY DESIGN No. Amendment Description		L.J.B. Initials Date		Co-ordinate System: MGA-Z55 GDA20 Height Datum: A.H.D.		DESIGNED REVIEWED	CROSS SECTIONS (DESIGN LINE CL94) - DRG 29	REGISTRATION NUMBER A1701.002		REVISION A	

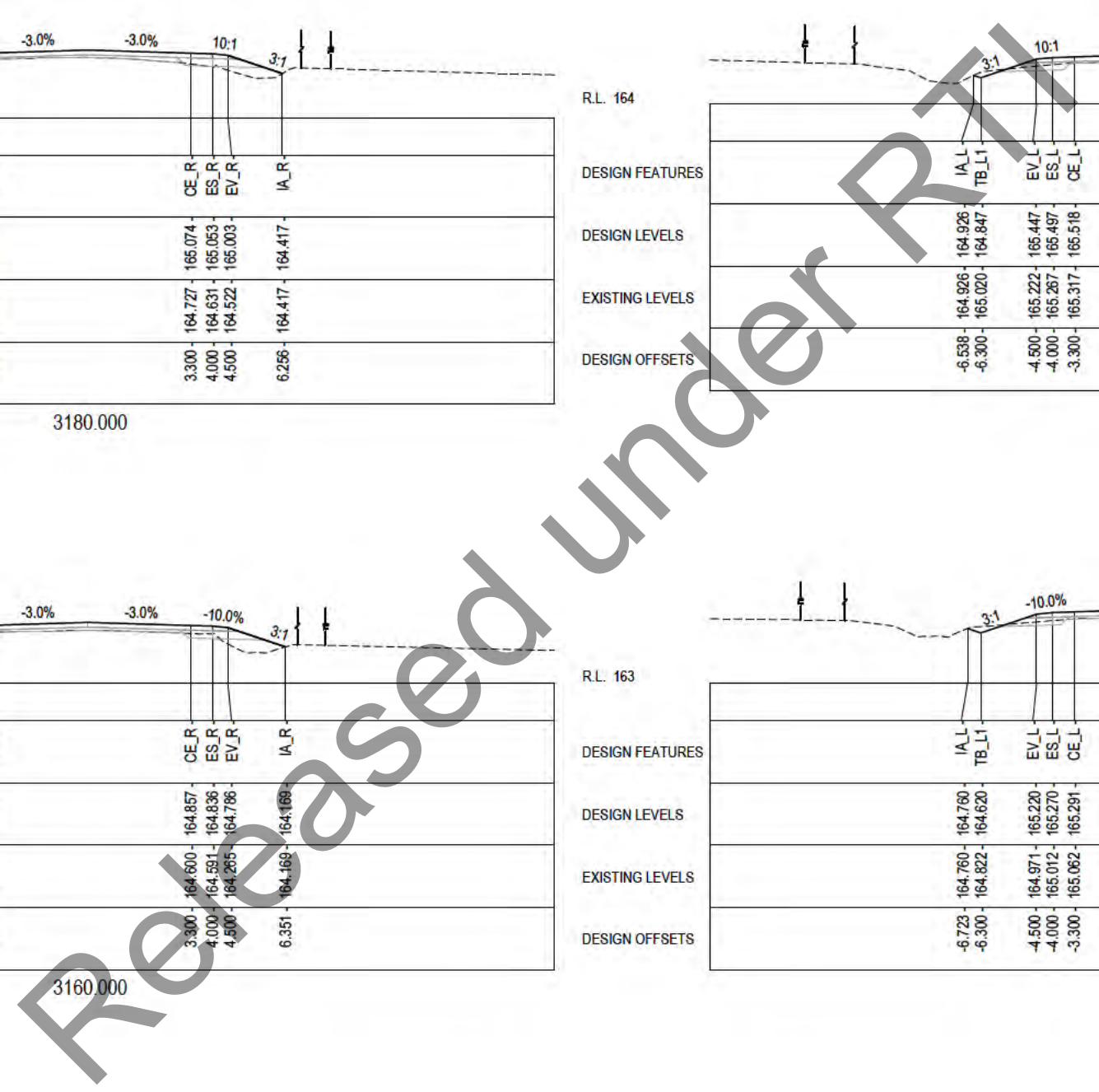
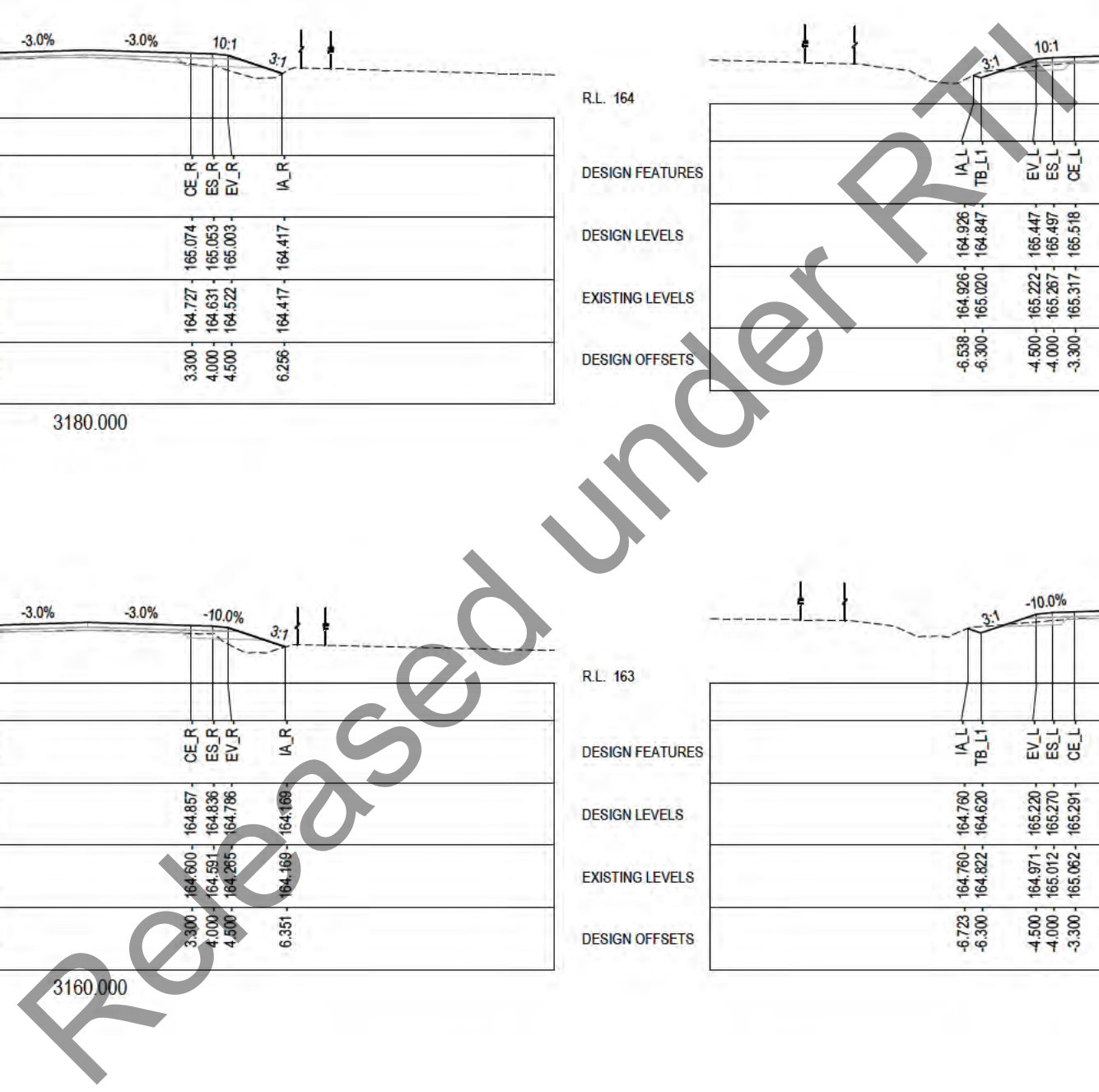
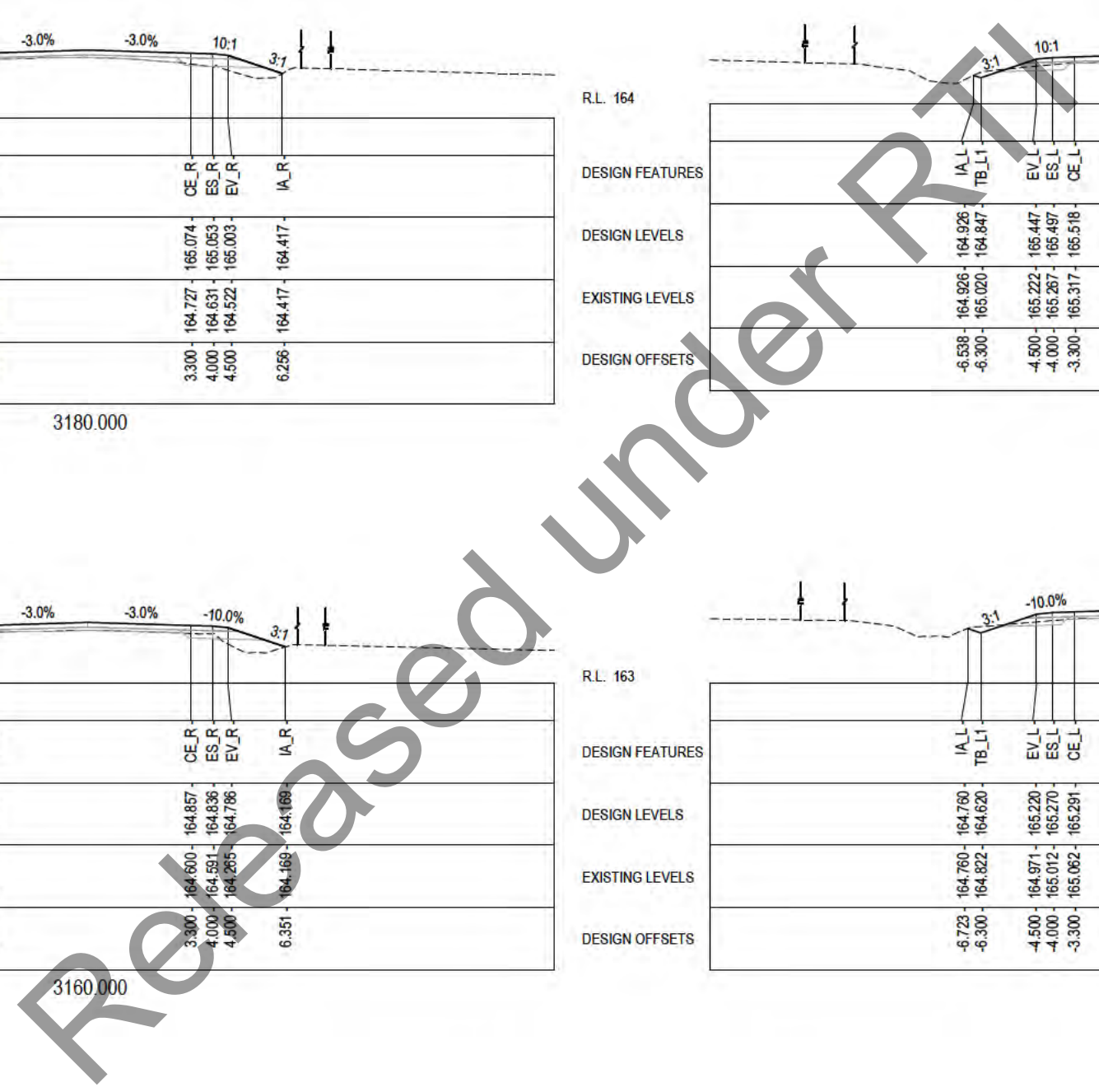
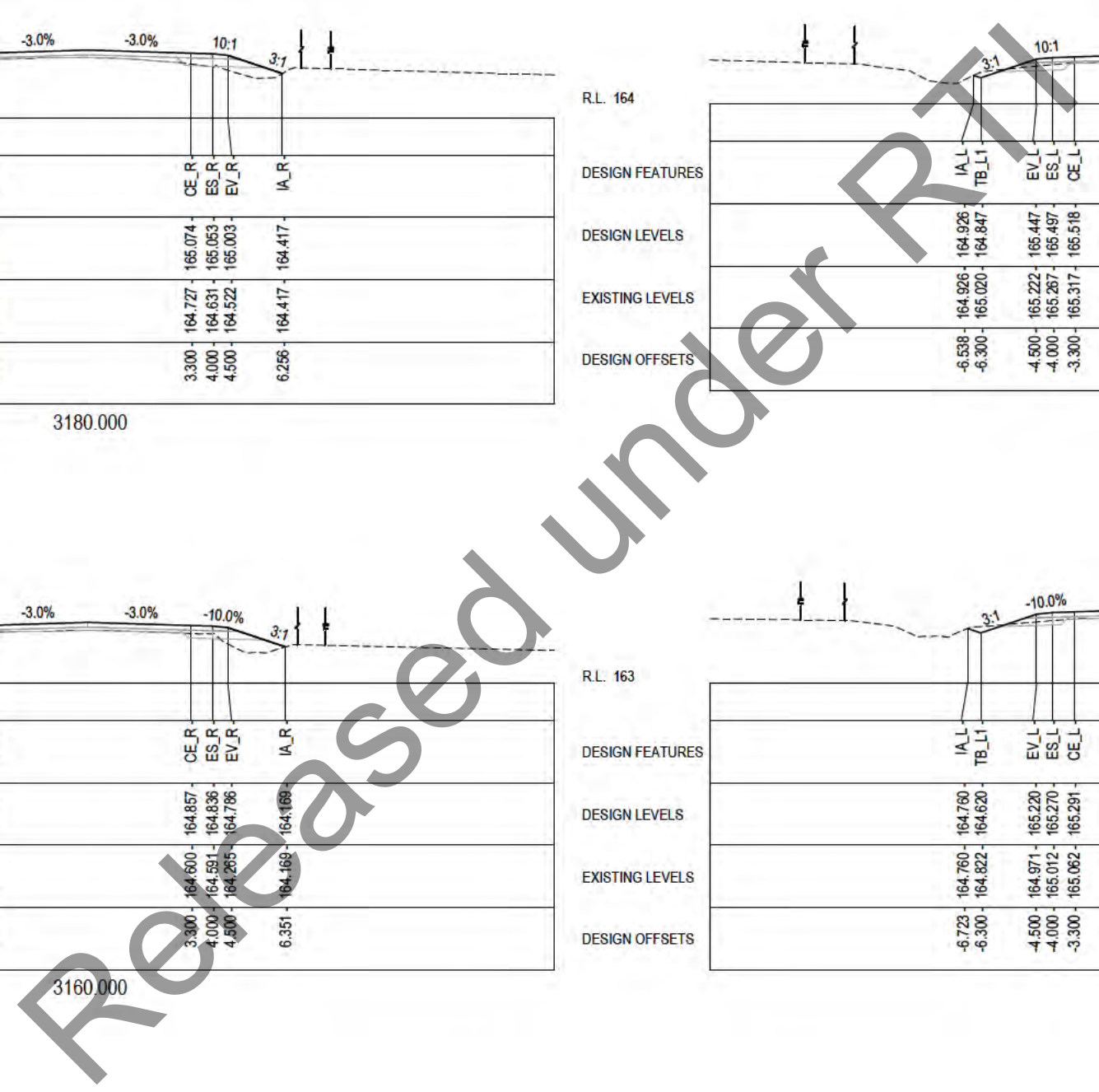
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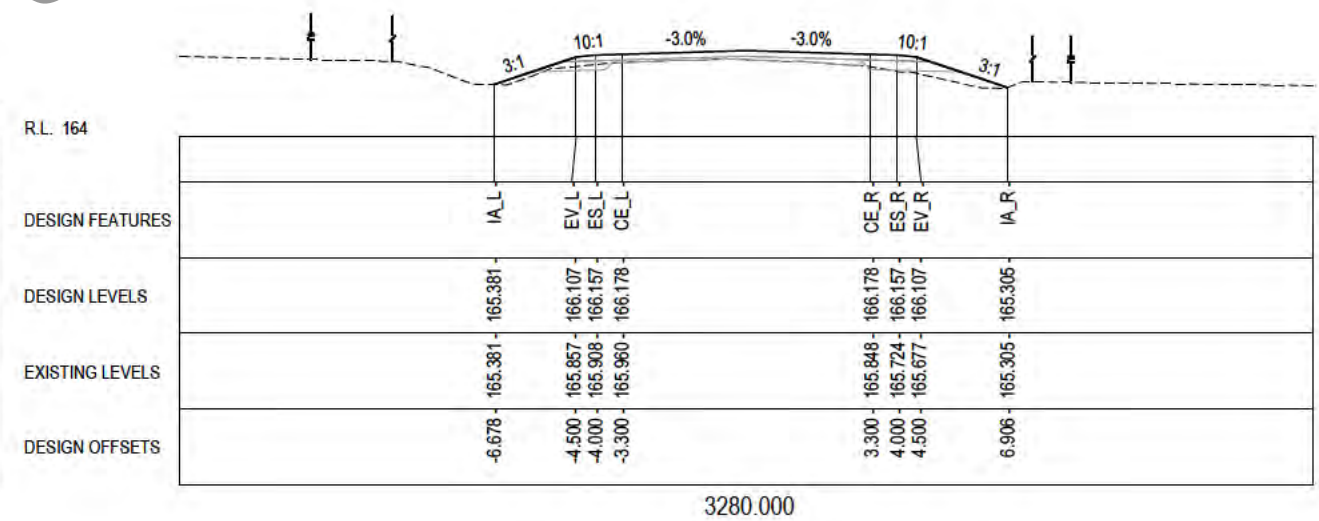
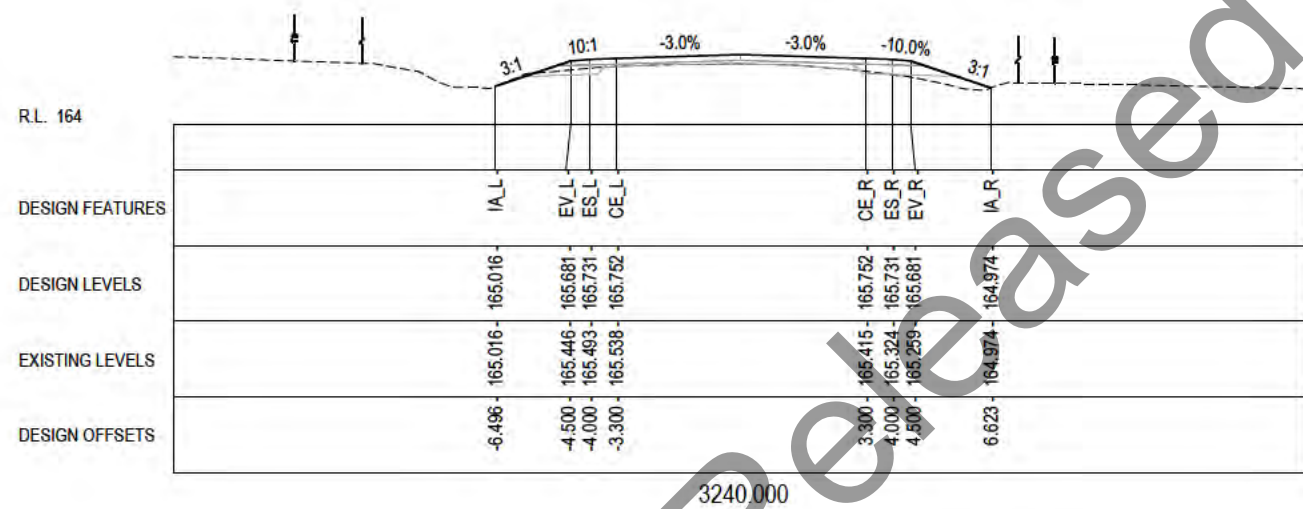
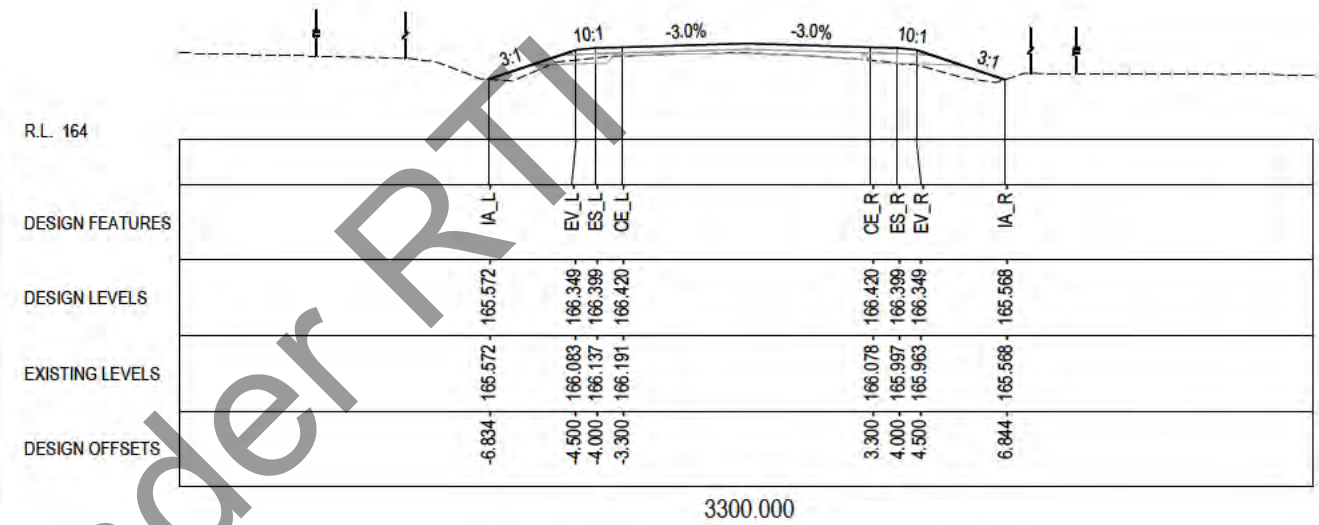
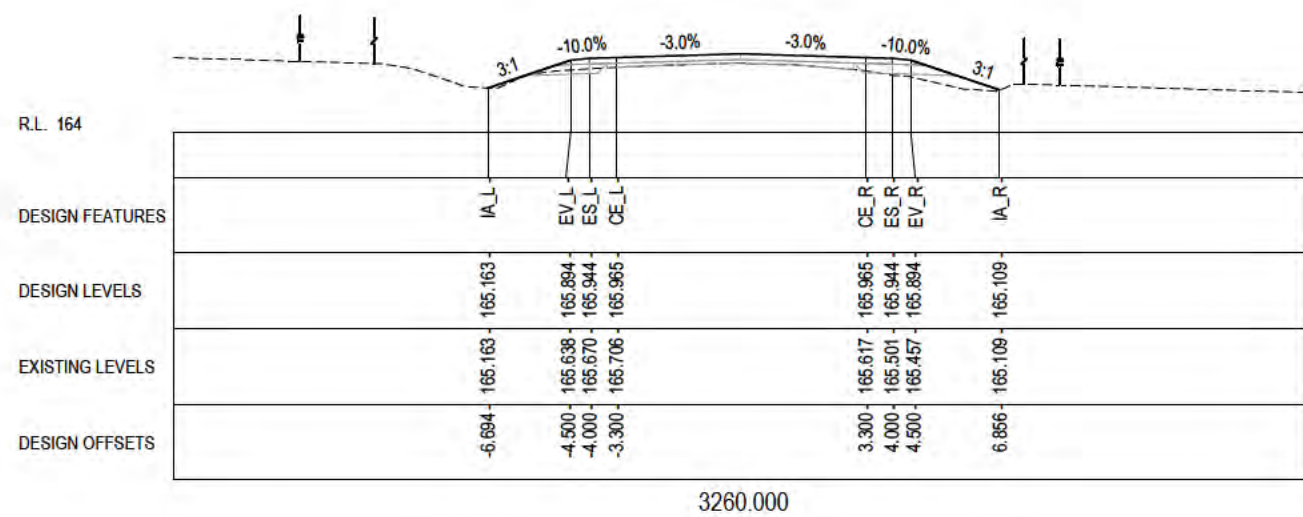
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A	PRELIMINARY DESIGN	L.J.B.	28/07/2023							REGISTRATION NUMBER A1701.002			
No.	Amendment Description	Initials	Date					CROSS SECTIONS (DESIGN LINE CL94) - DRG 31					
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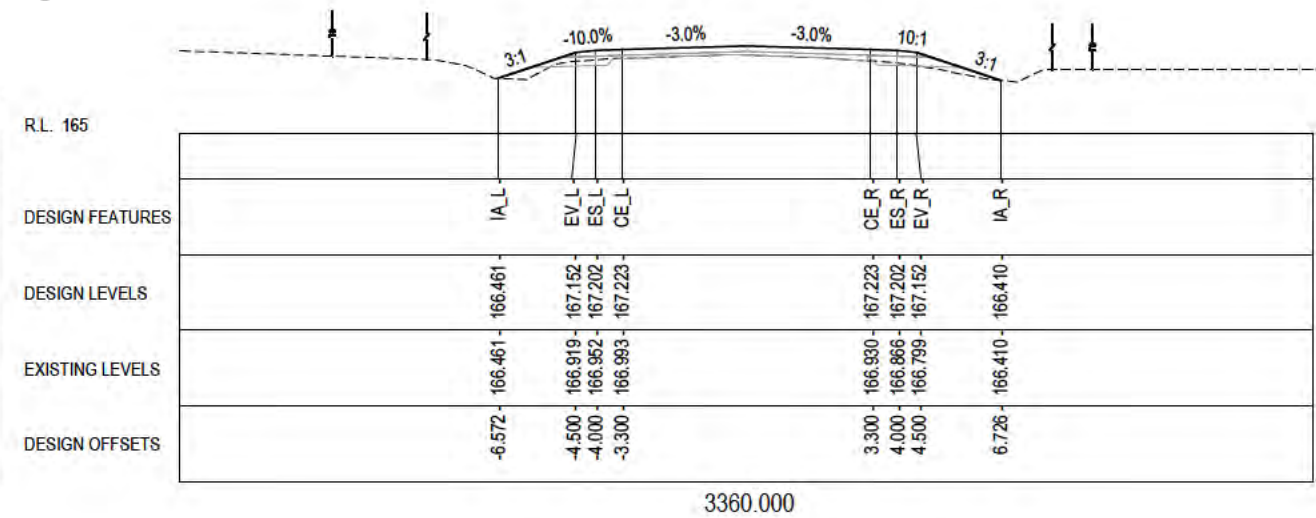
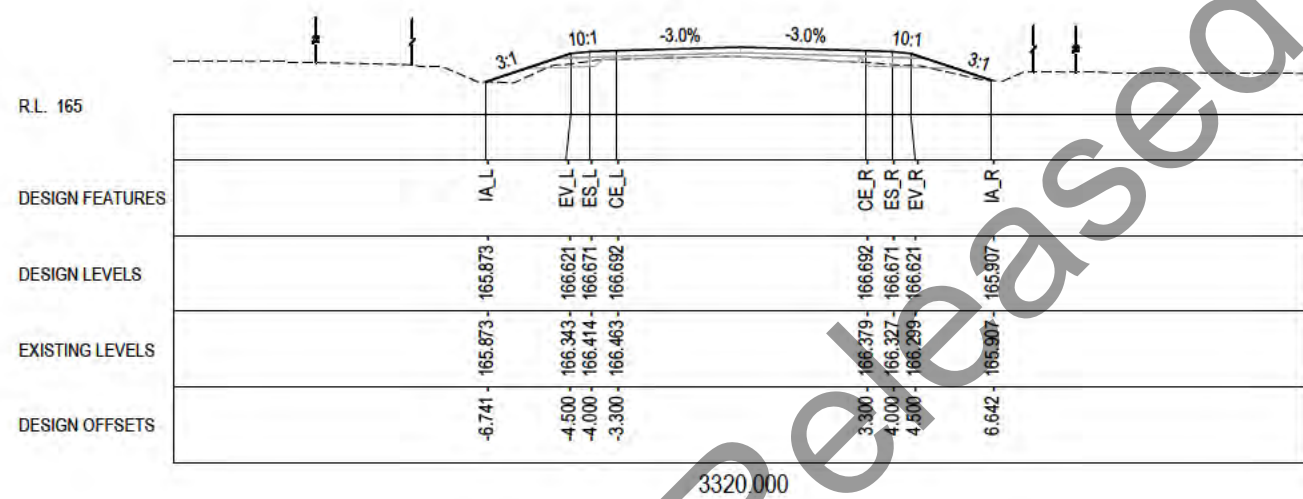
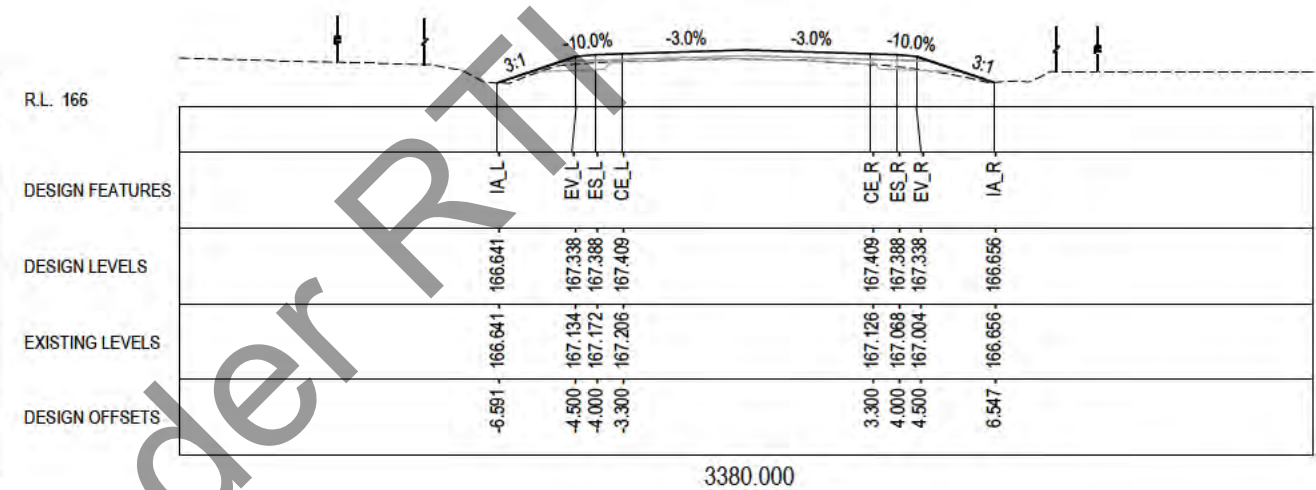
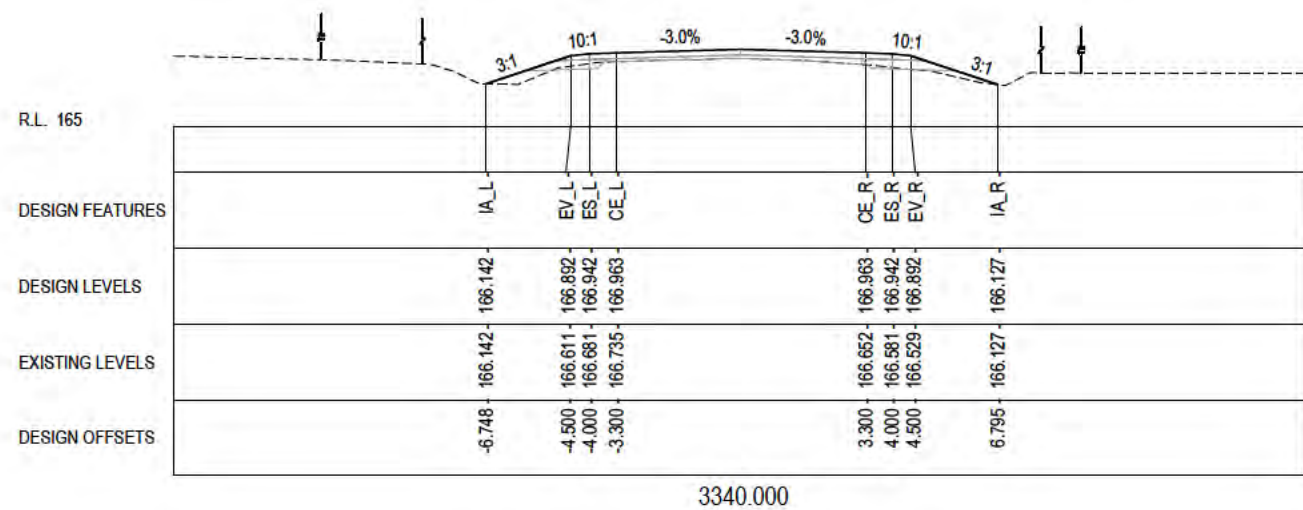


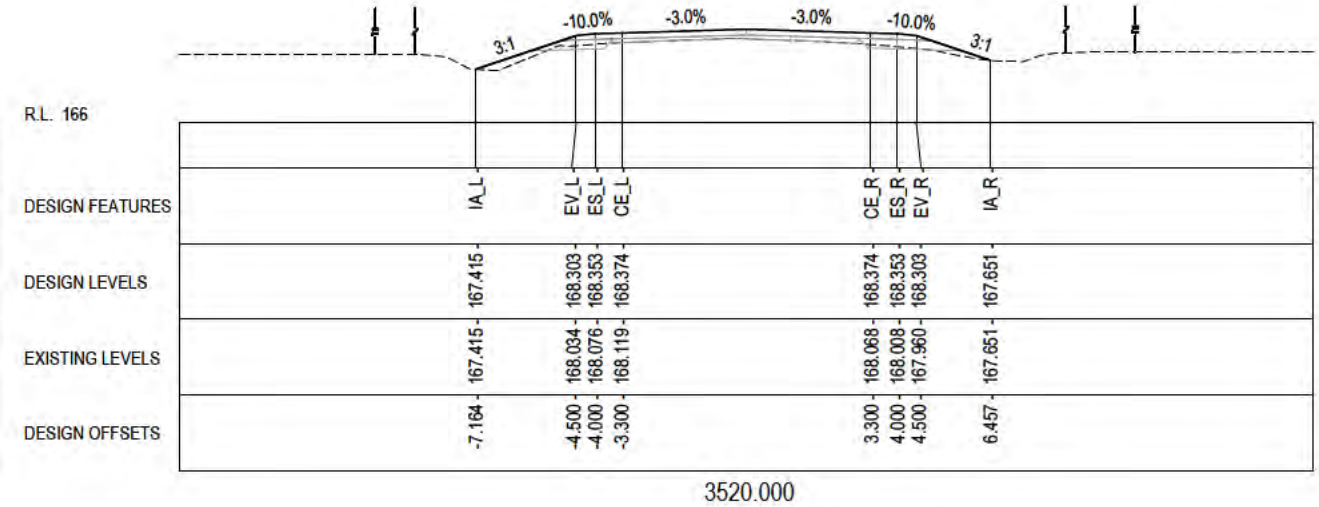
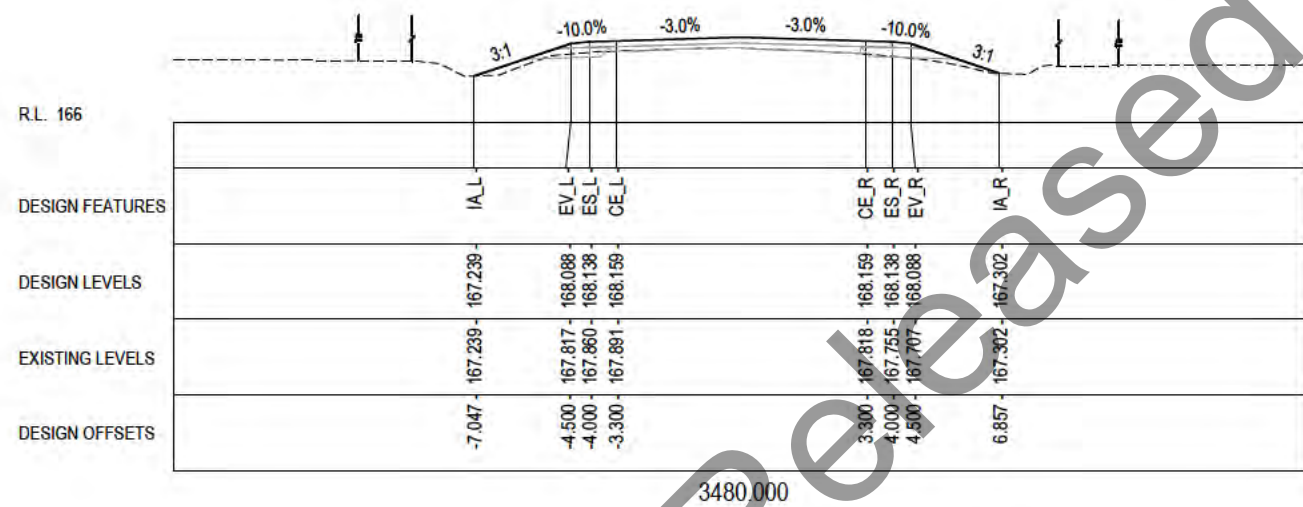
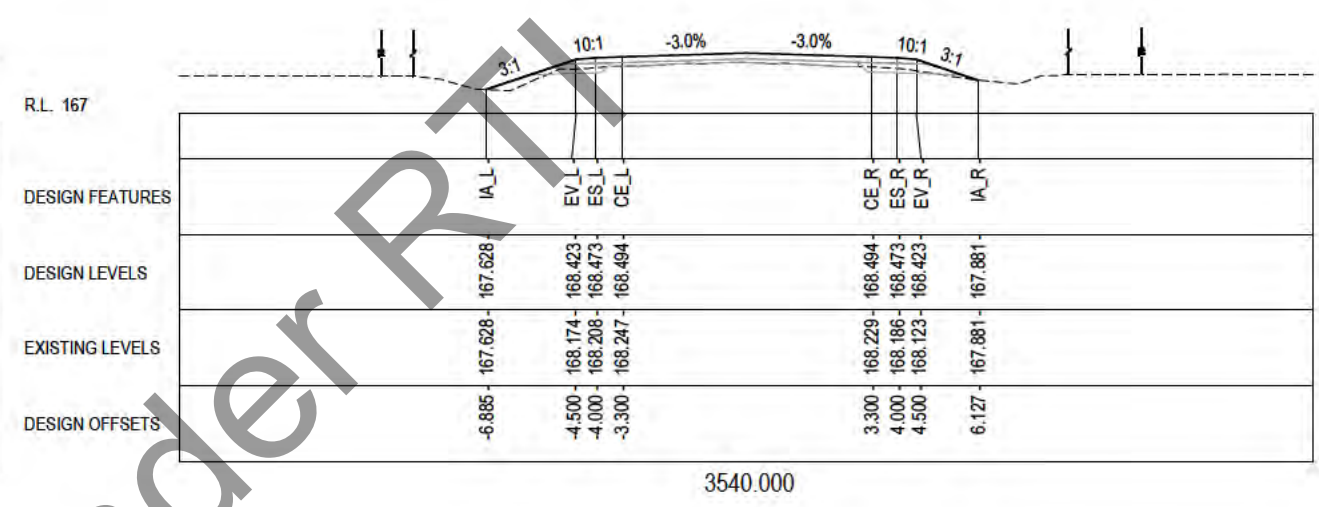
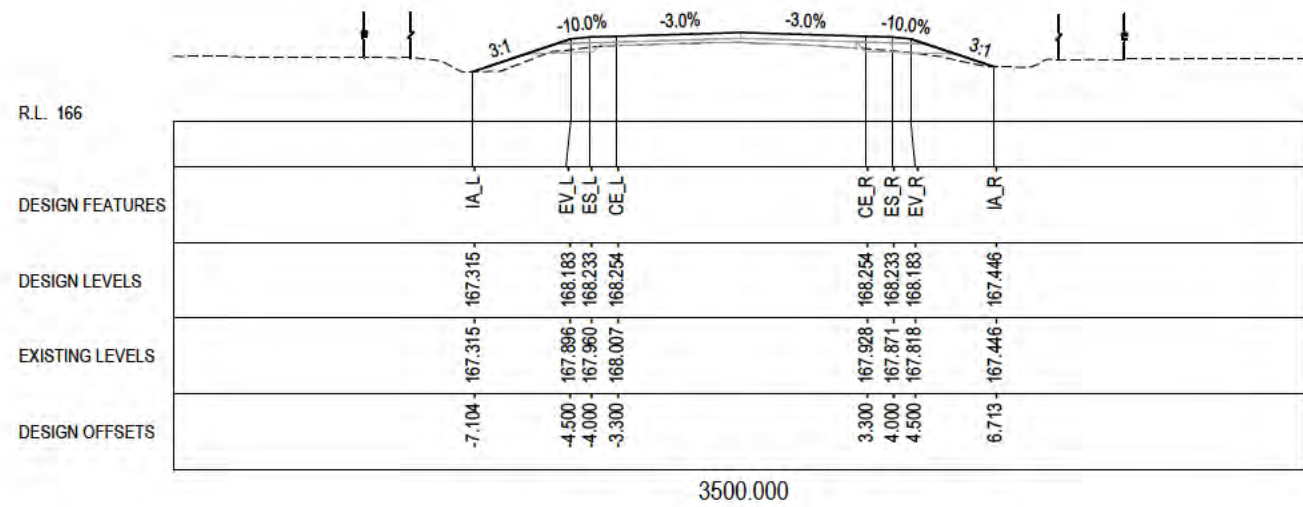


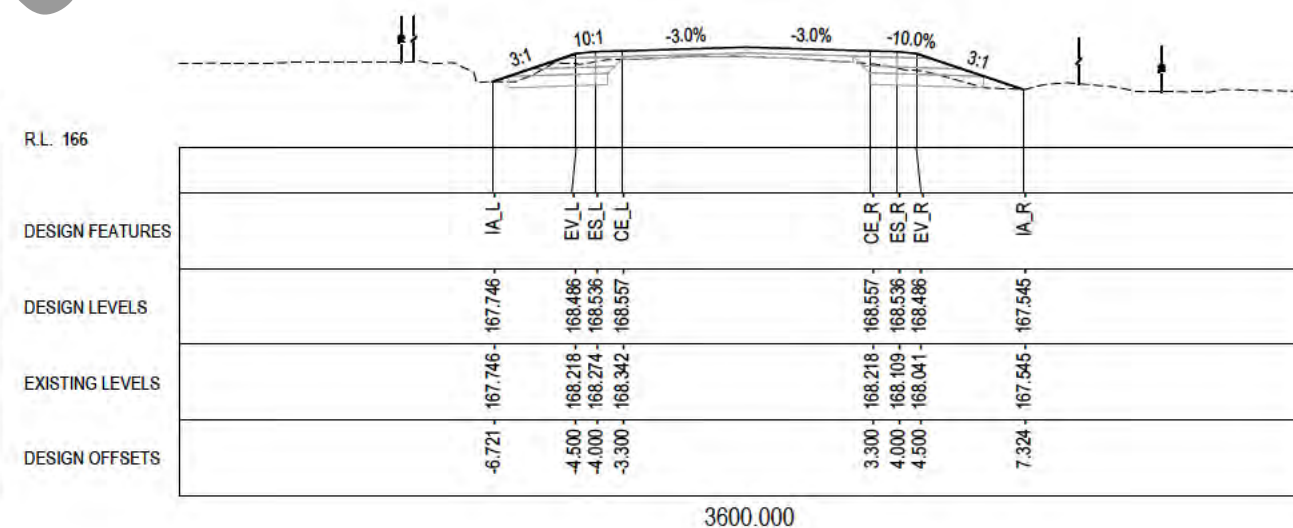
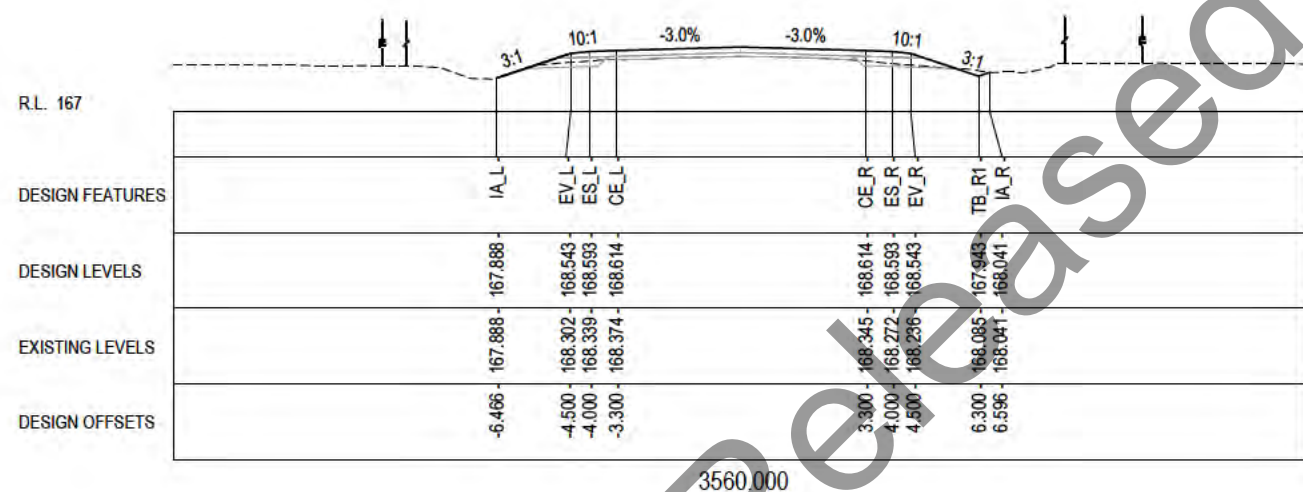
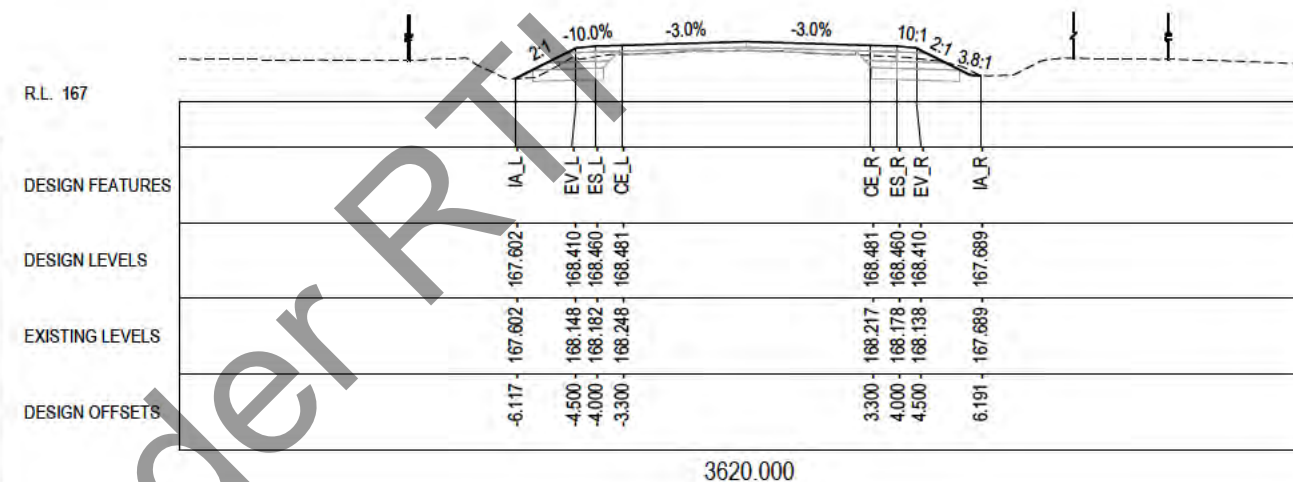
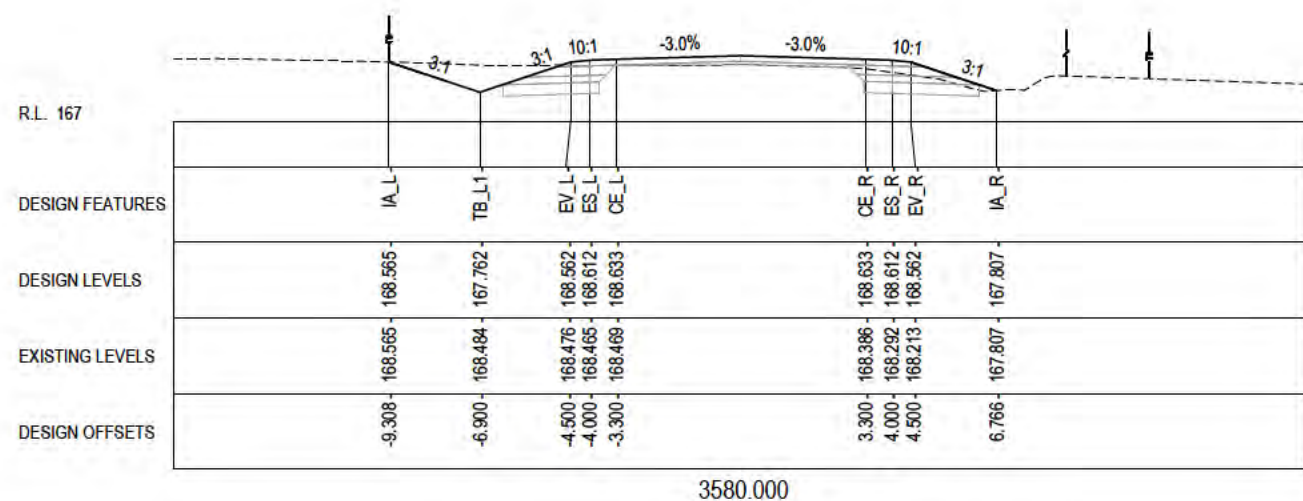


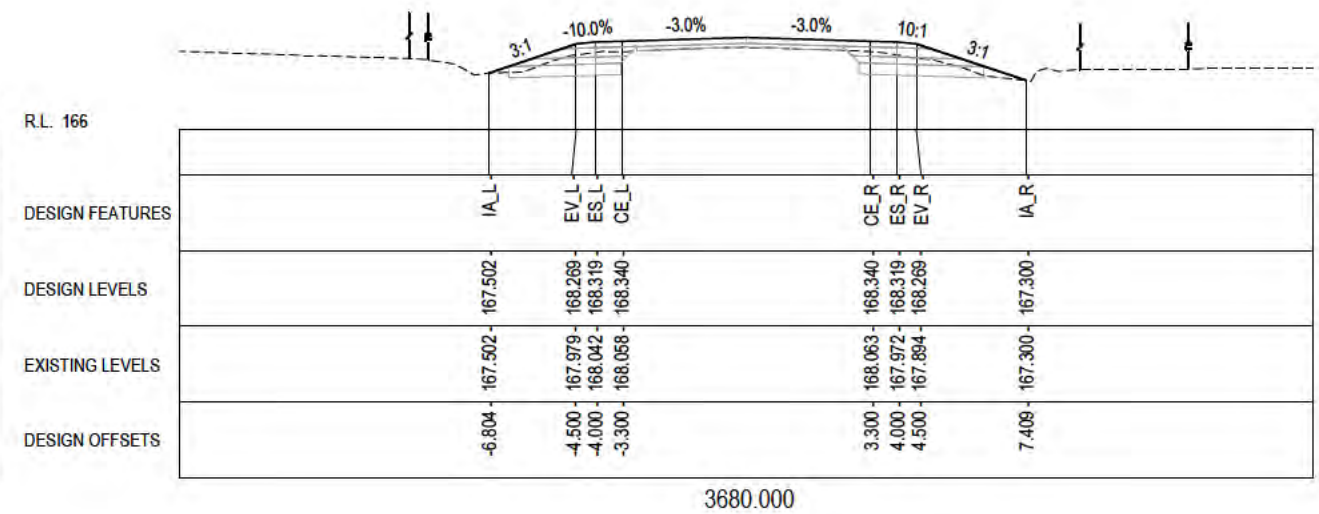
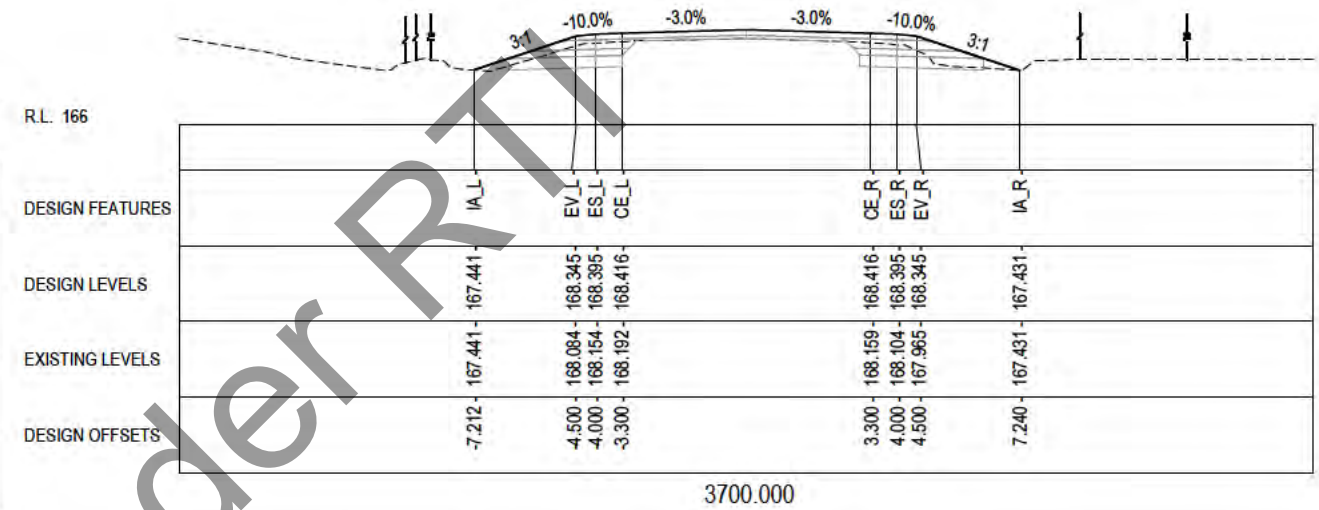
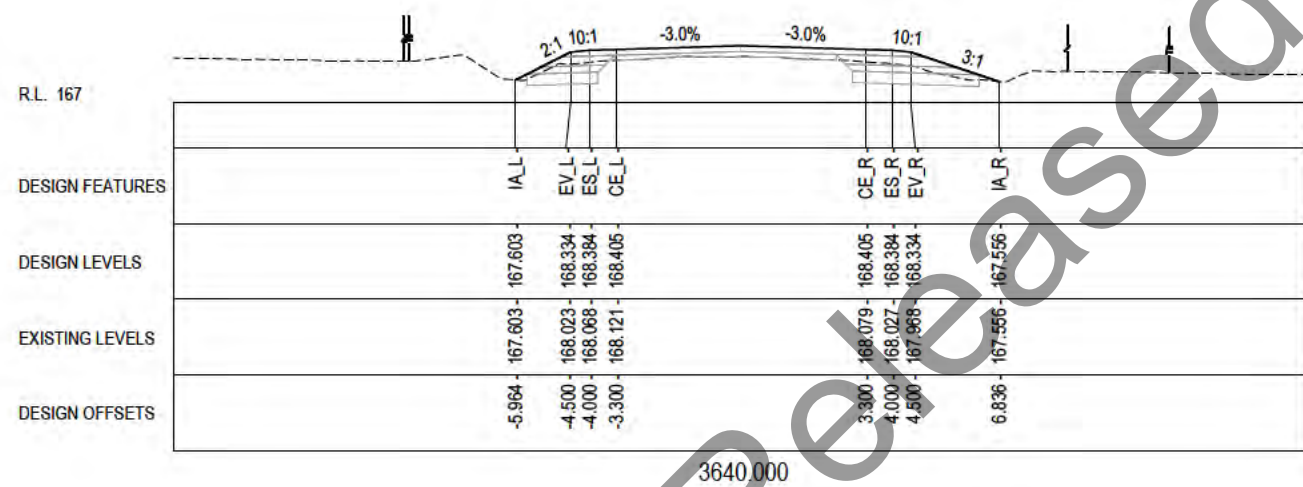
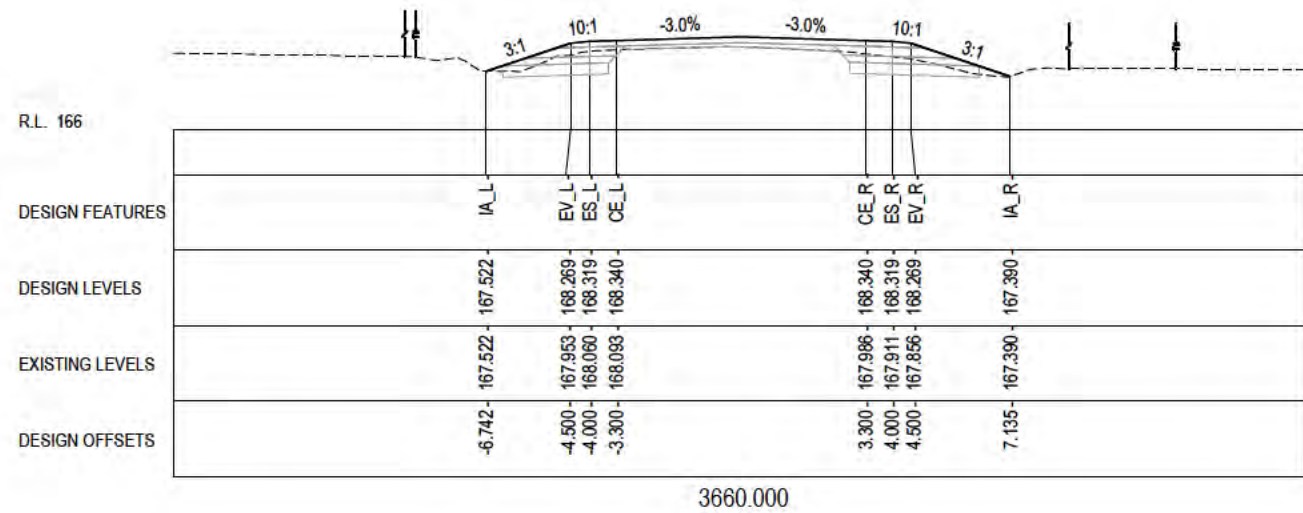
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A	PRELIMINARY DESIGN			L.J.B.	28/07/2023	SCALE IN METRES - 1:200		DESIGNED		REGISTRATION NUMBER			REVISION A
No.	Amendment Description			Initials	Date			REVIEWED		A1701.002			
A3 original	This sheet may be prepared using colour and may be incomplete if copied			Co-ordinate System: MGA-Z55 GDA20		Height Datum: A.H.D.		CROSS SECTIONS (DESIGN LINE CL94) - DRG 34					

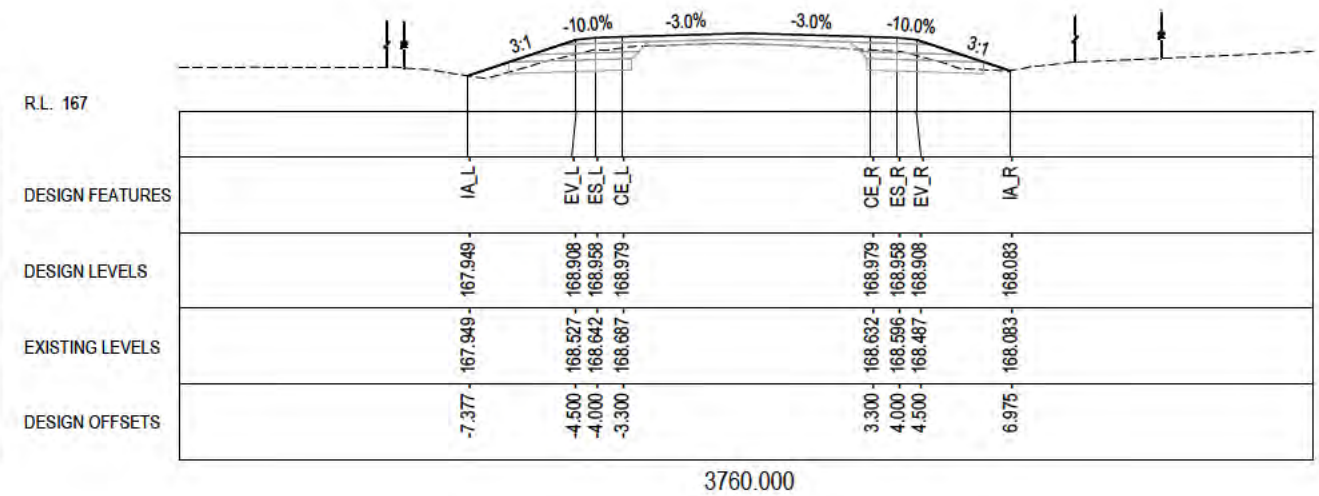
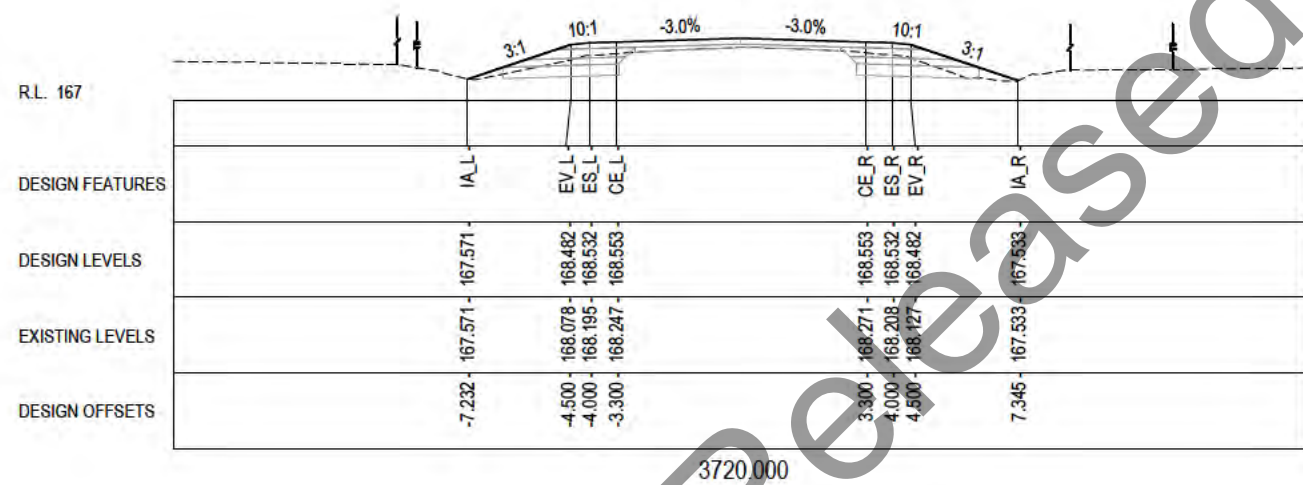
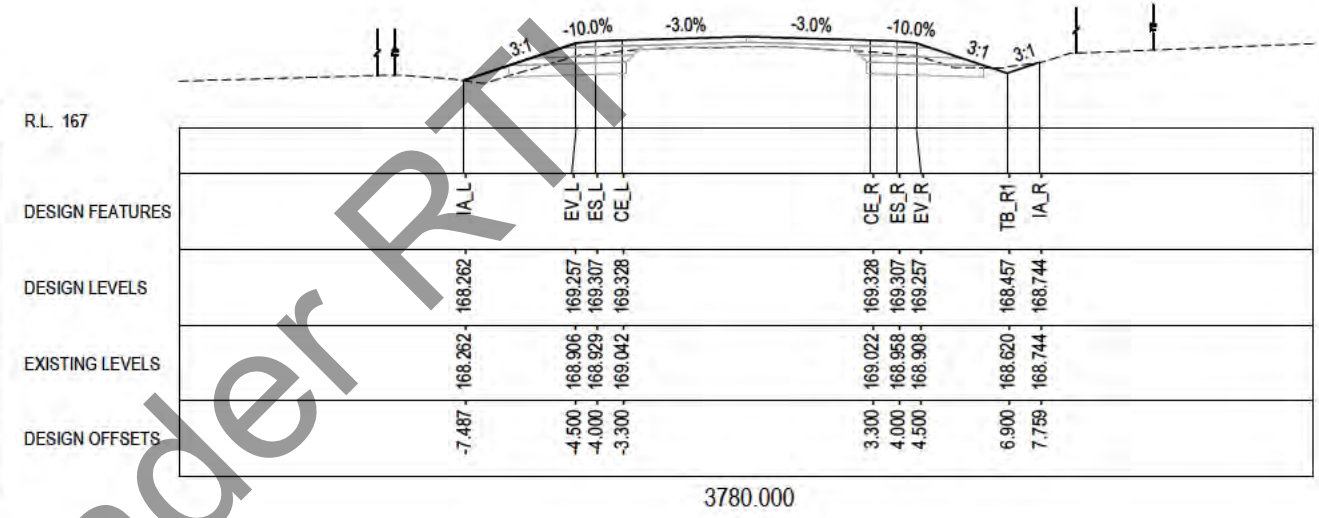
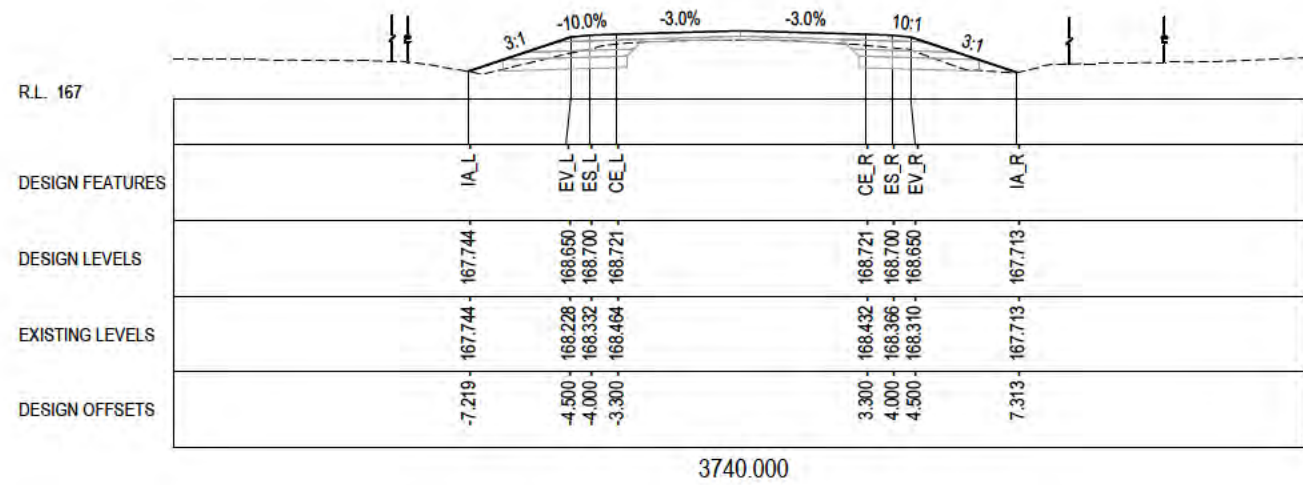


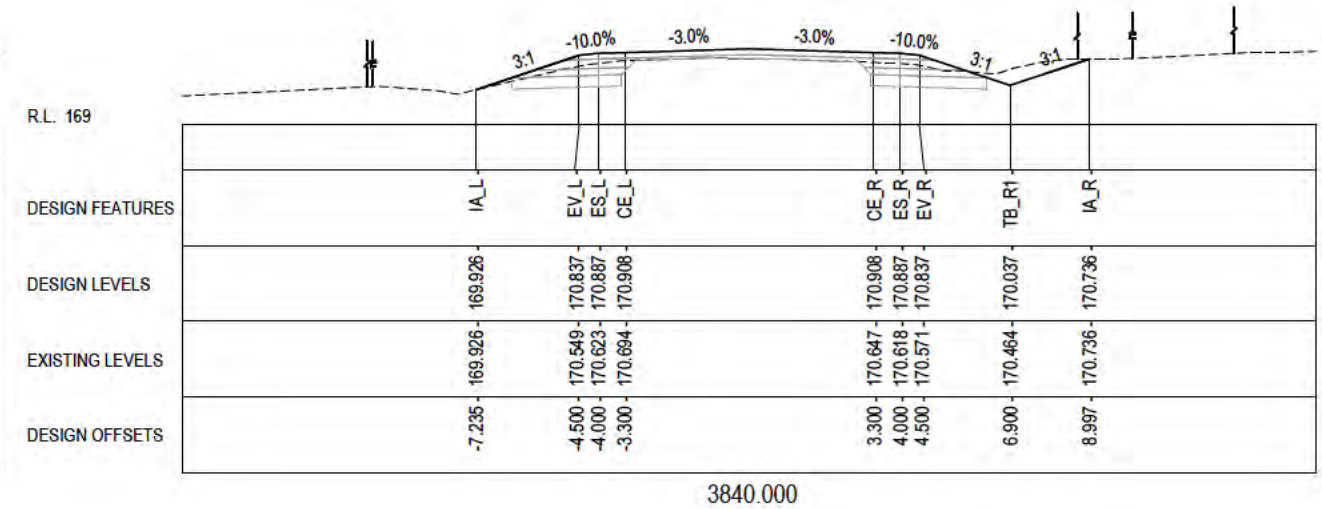
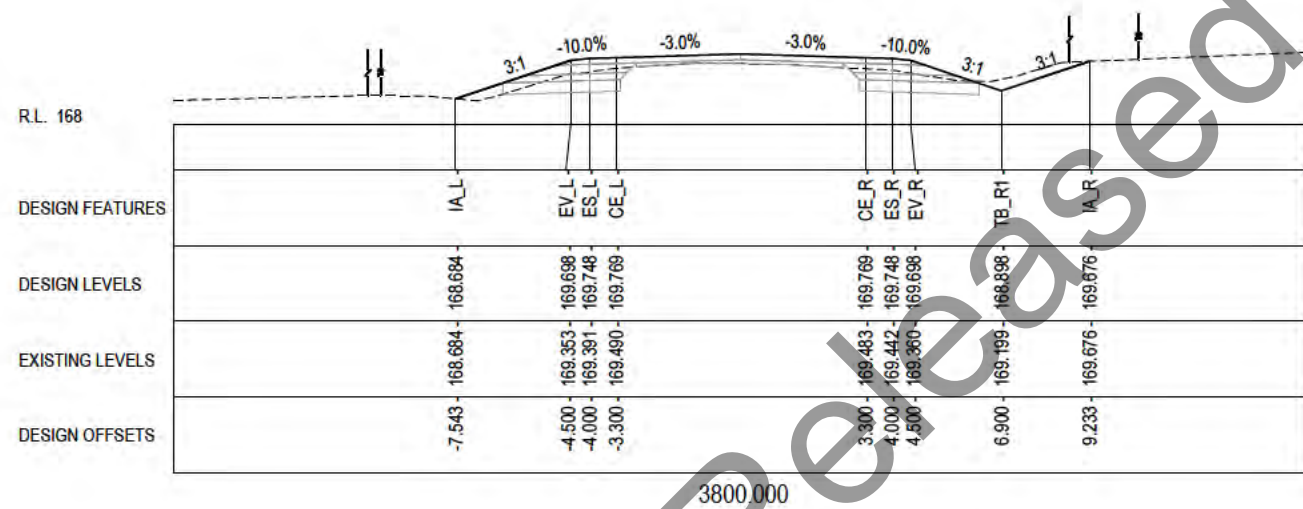
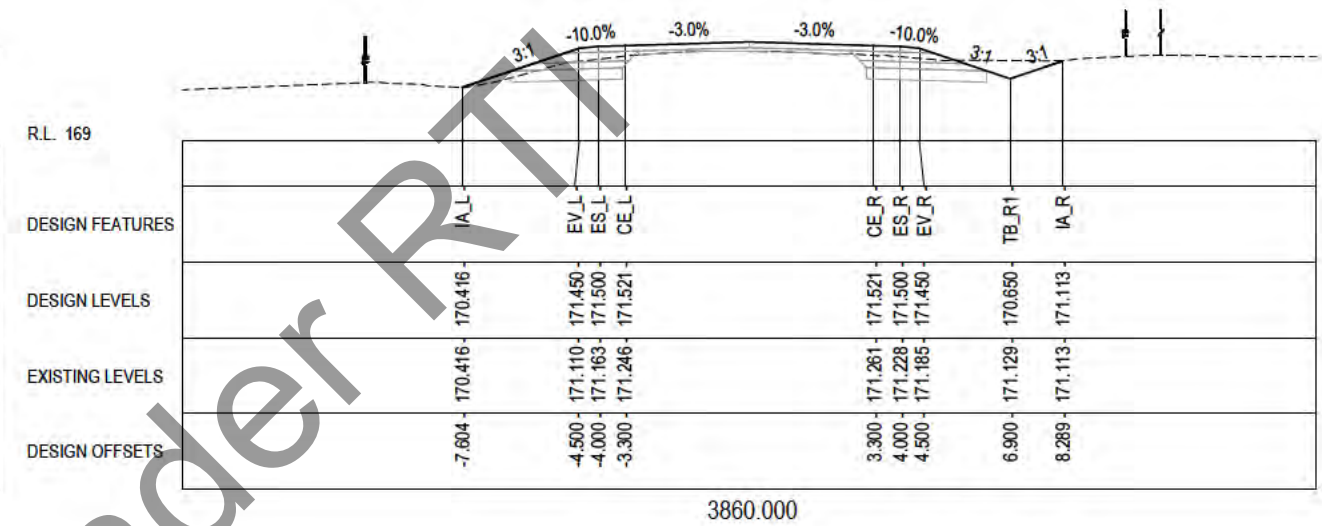
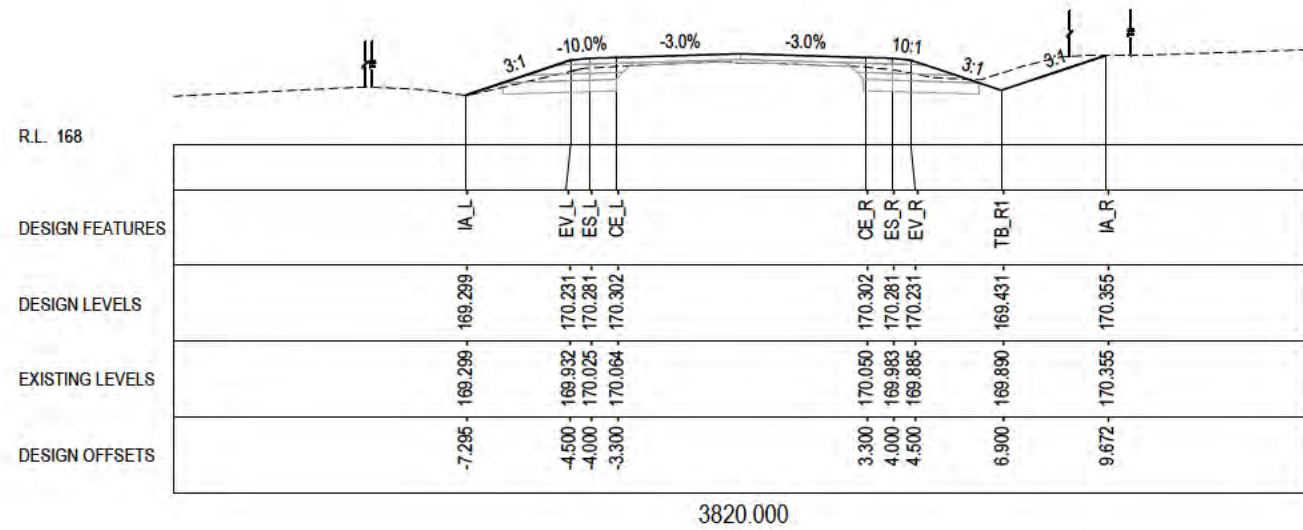




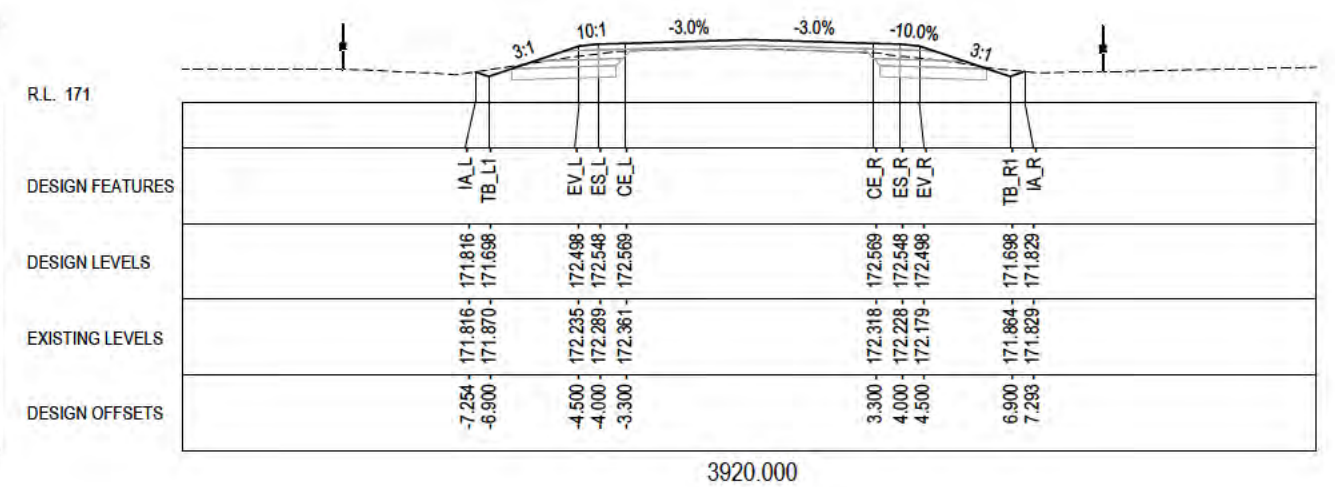
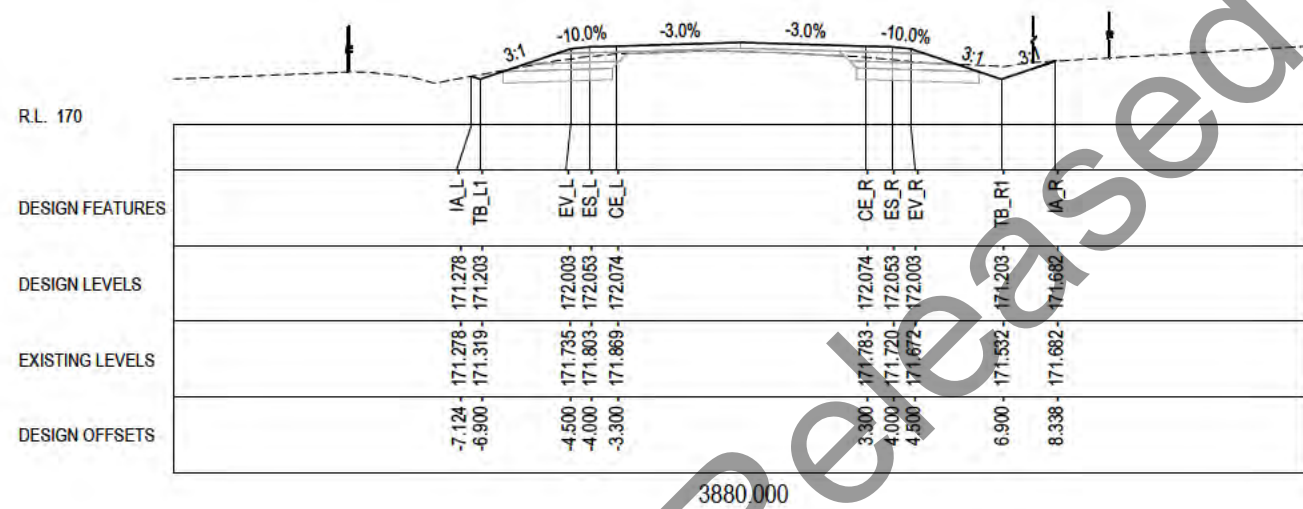
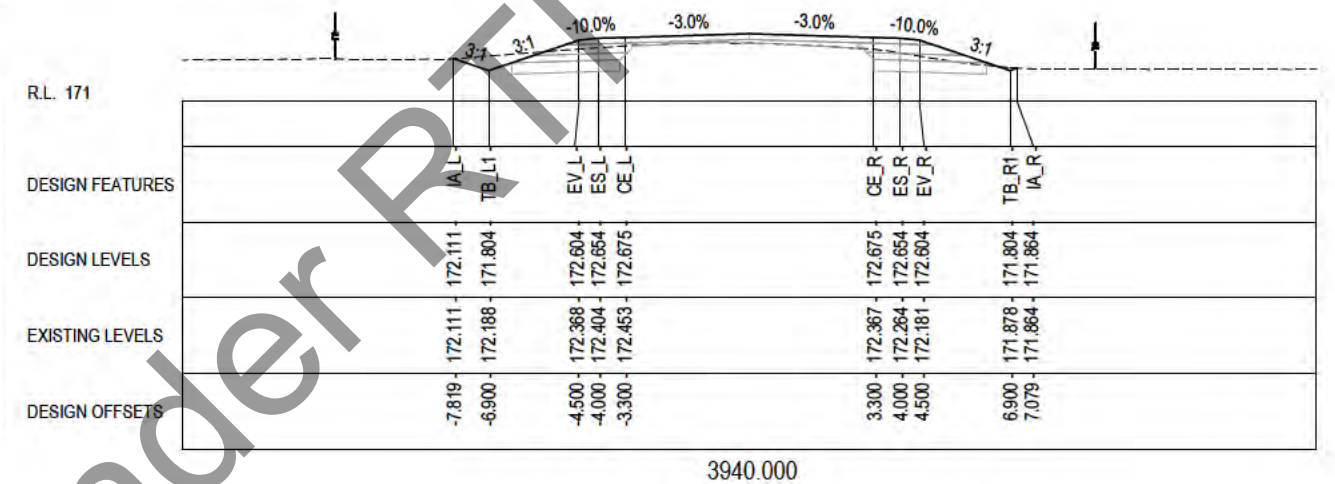
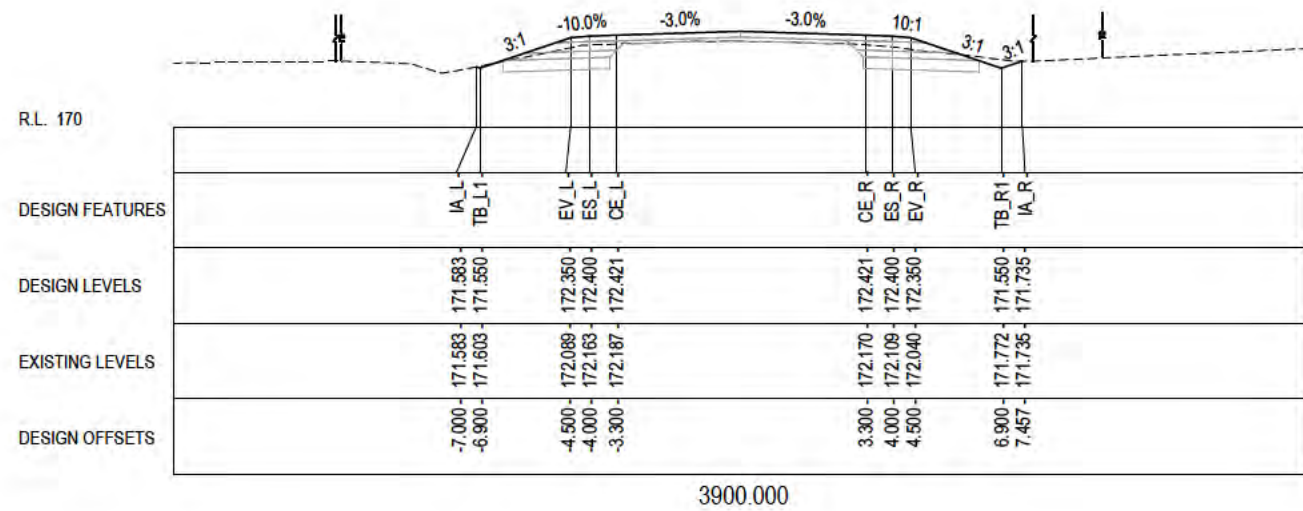


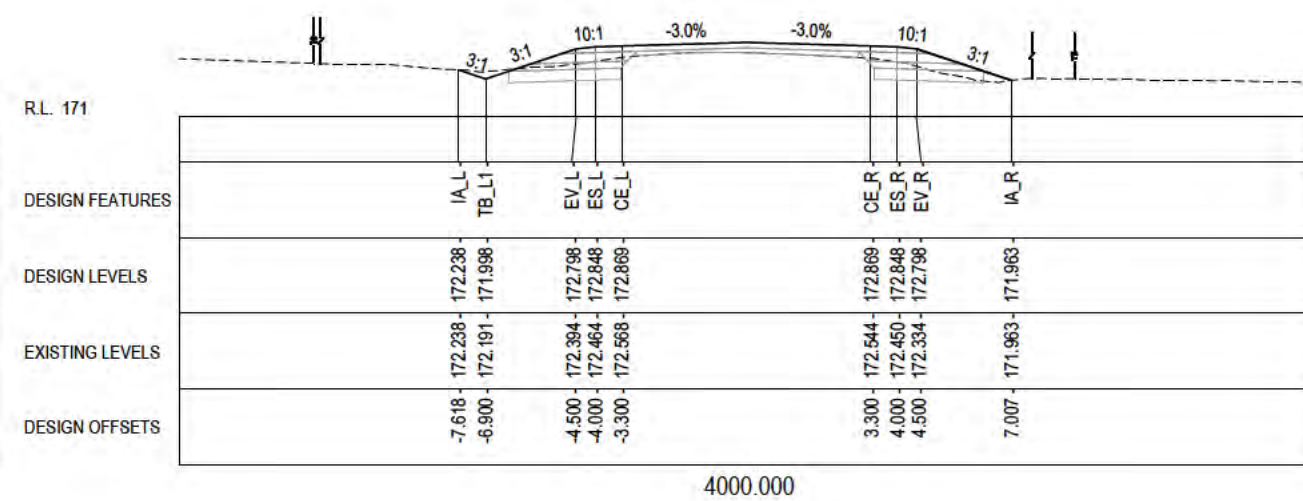
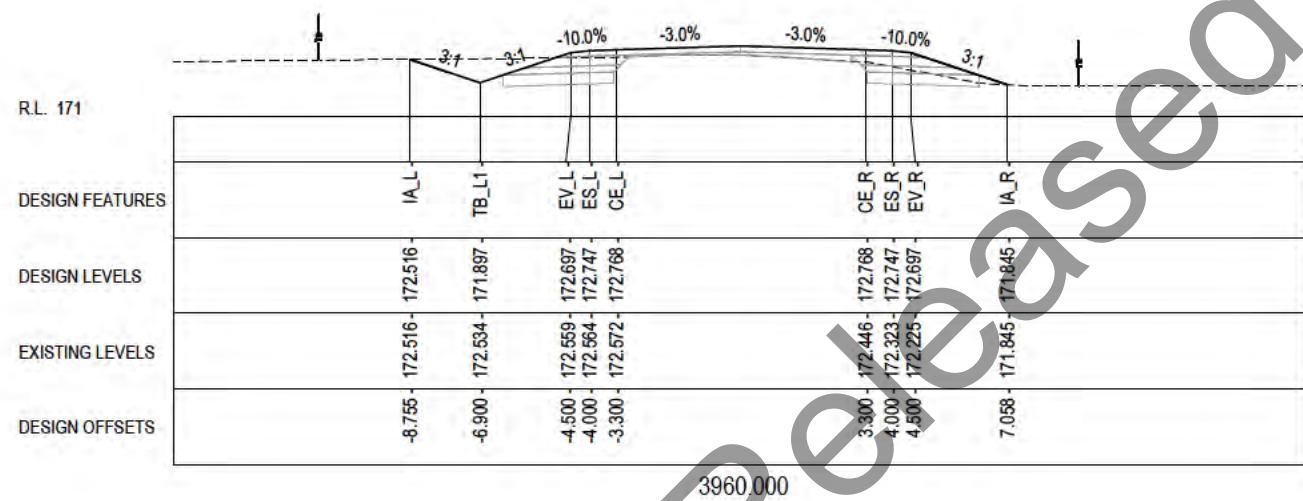
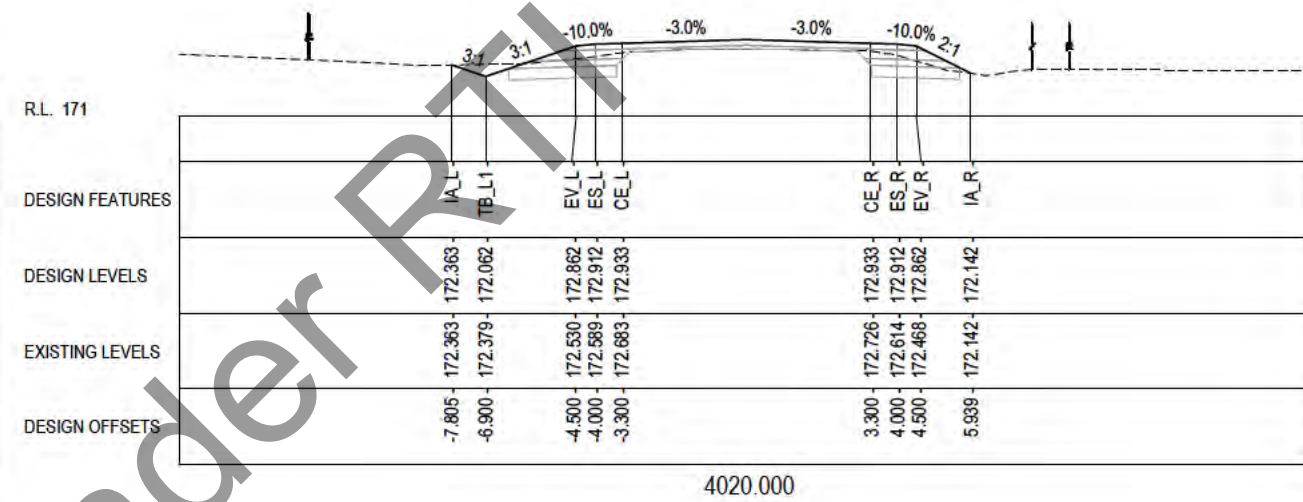
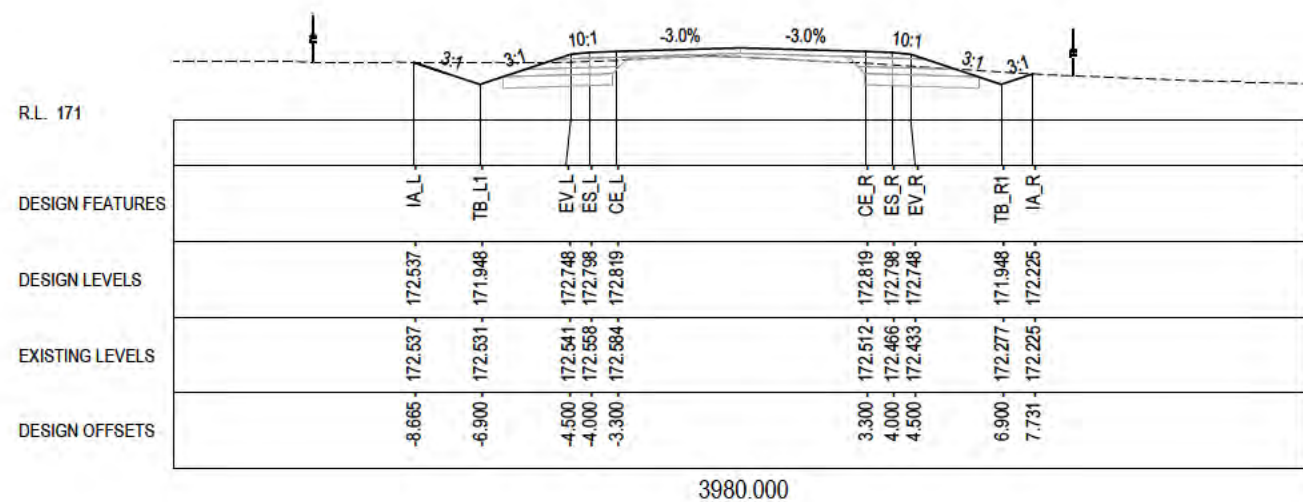


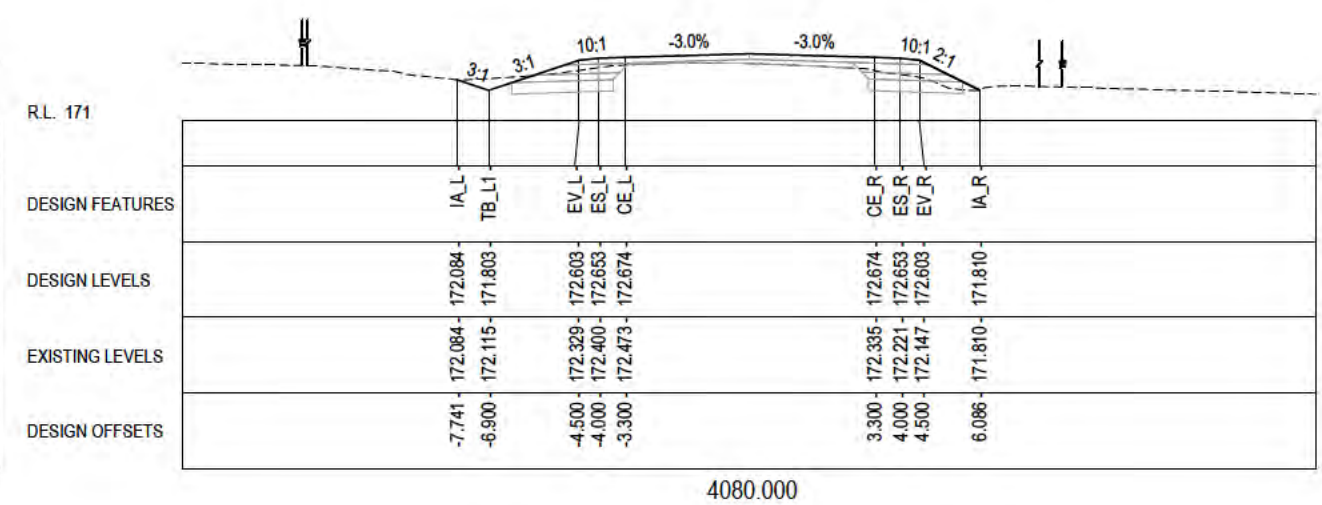
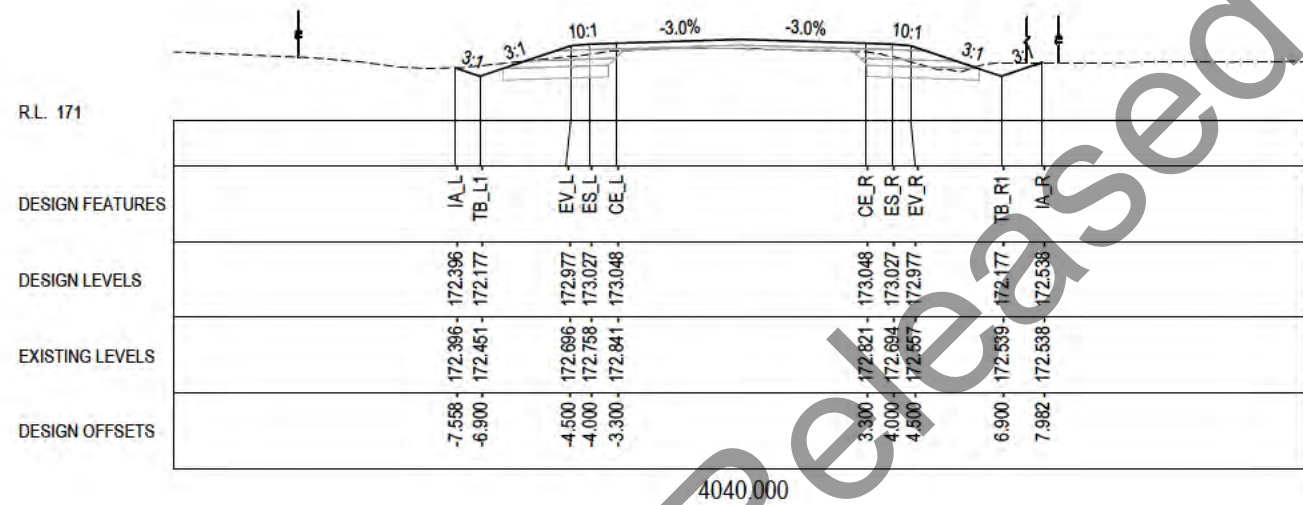
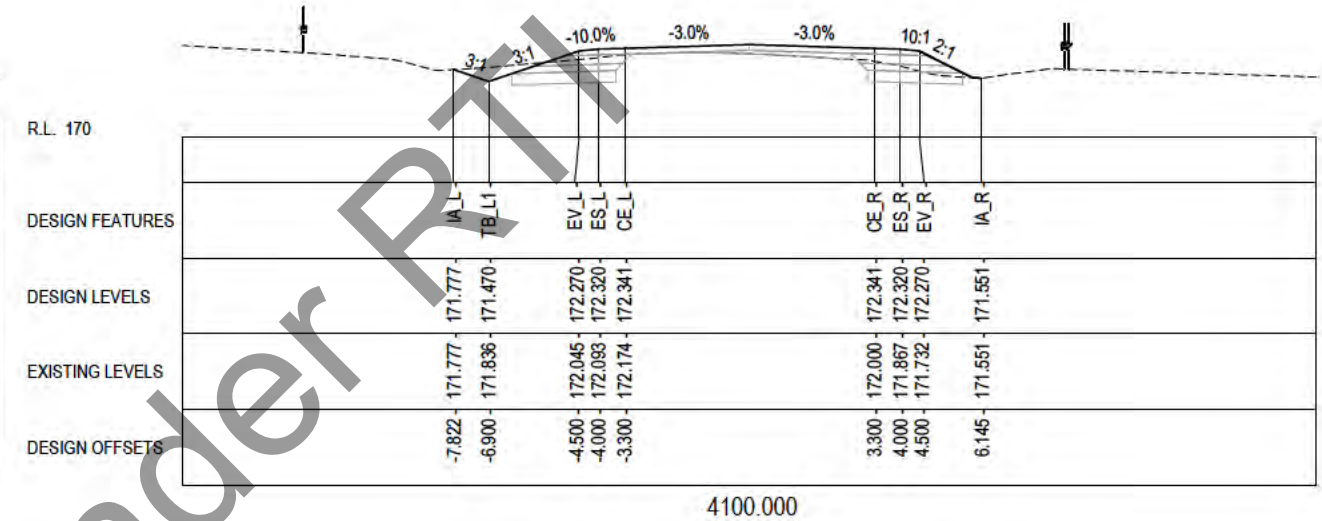
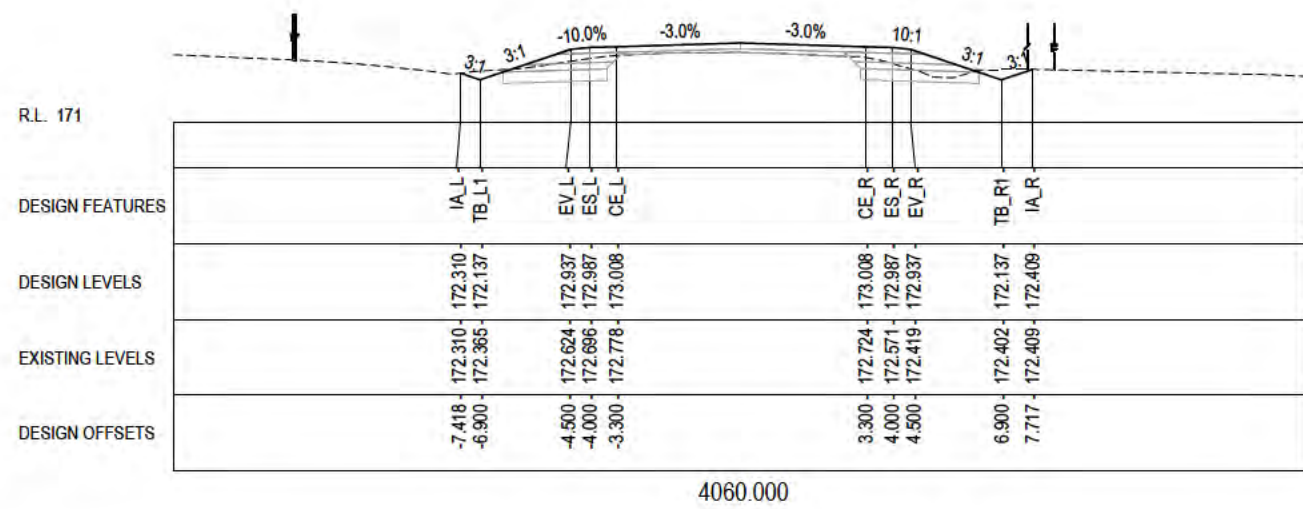


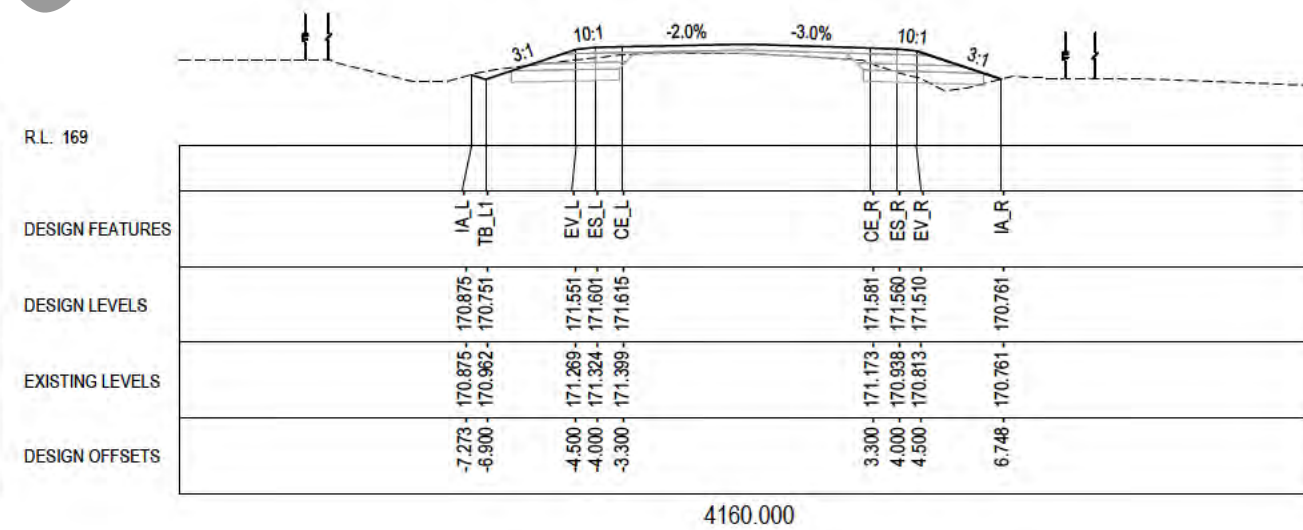
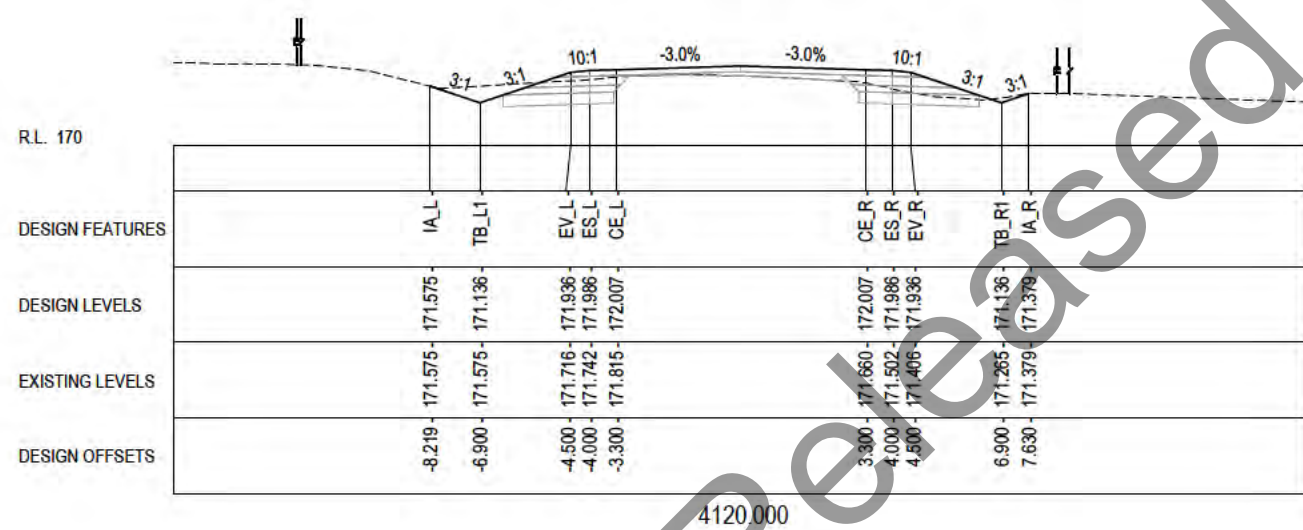
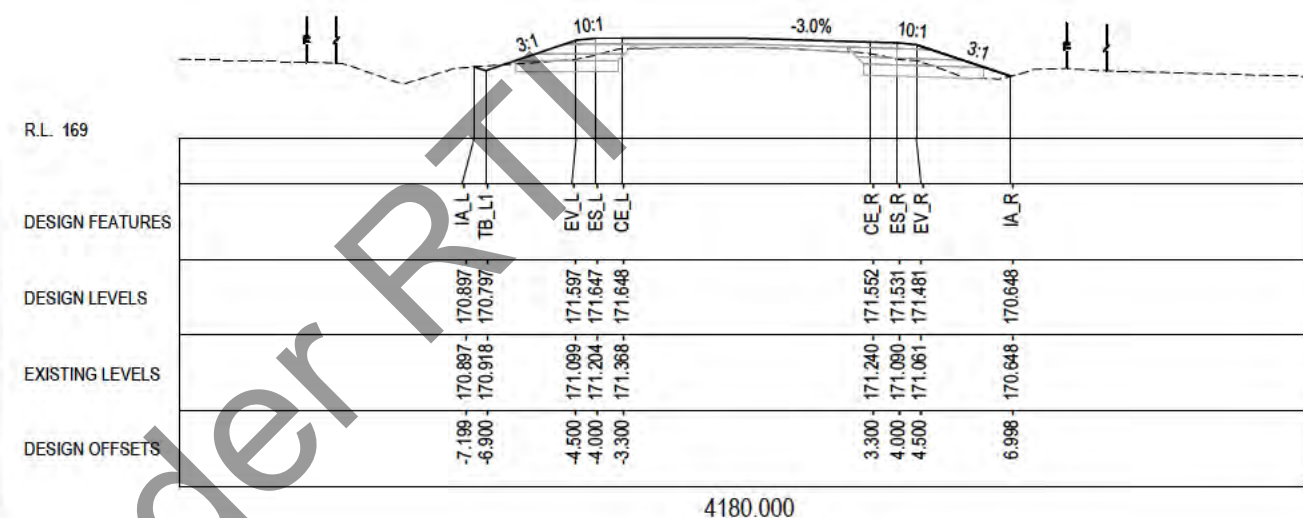
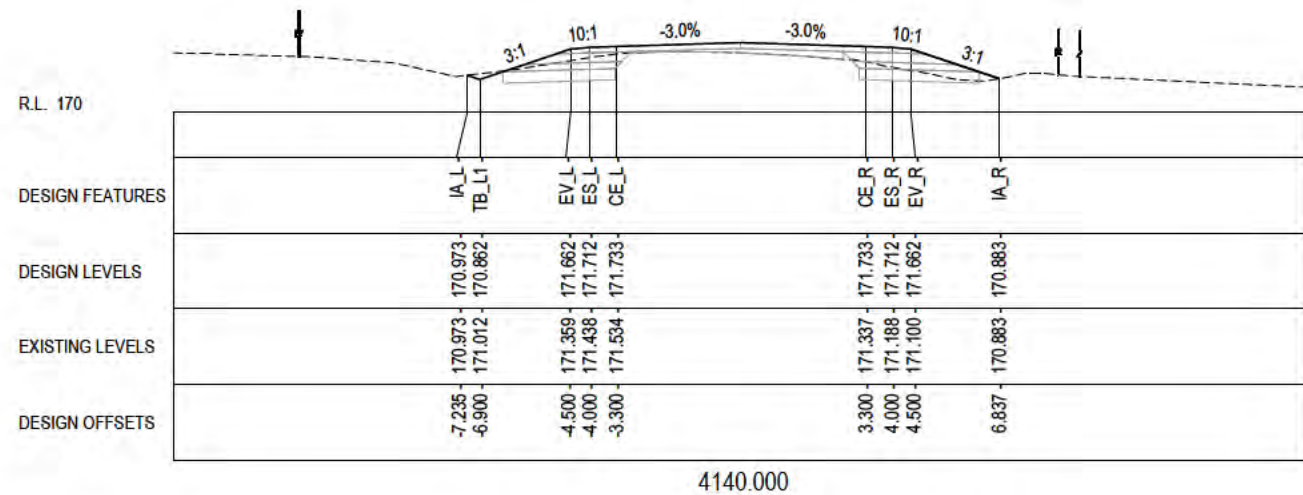


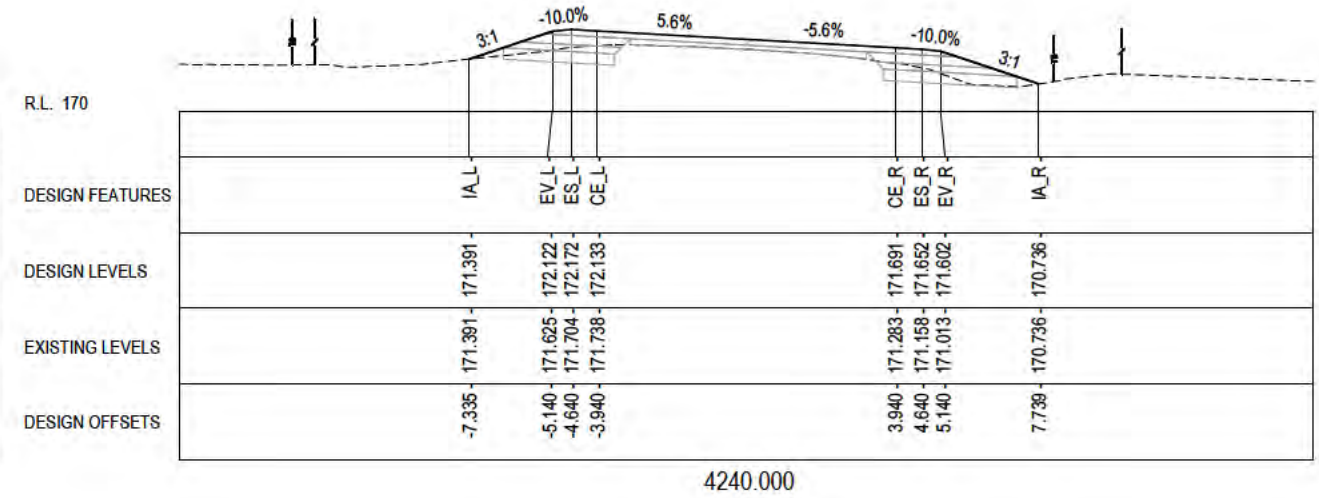
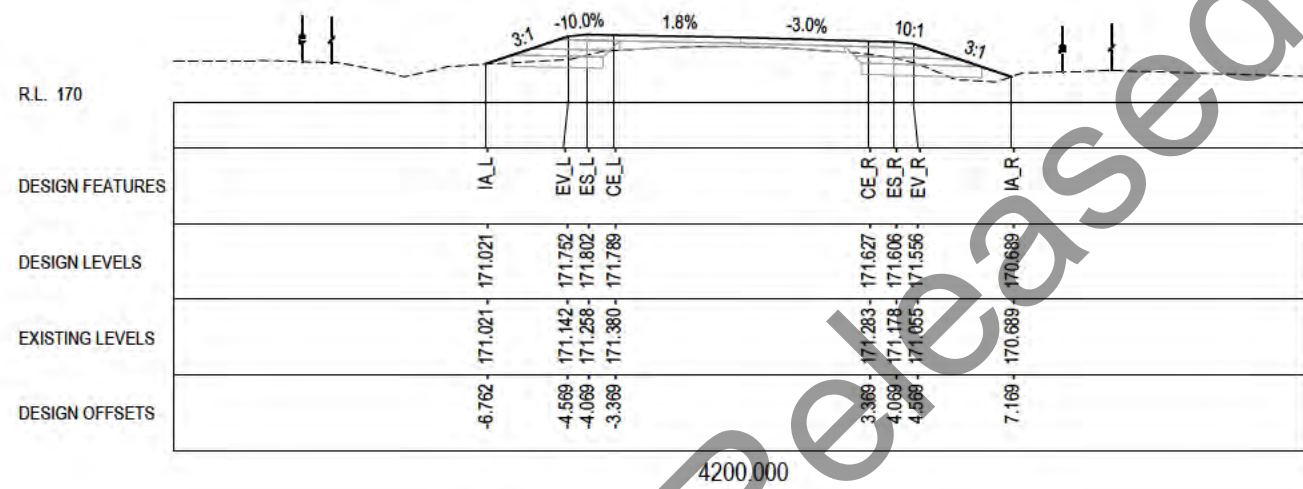
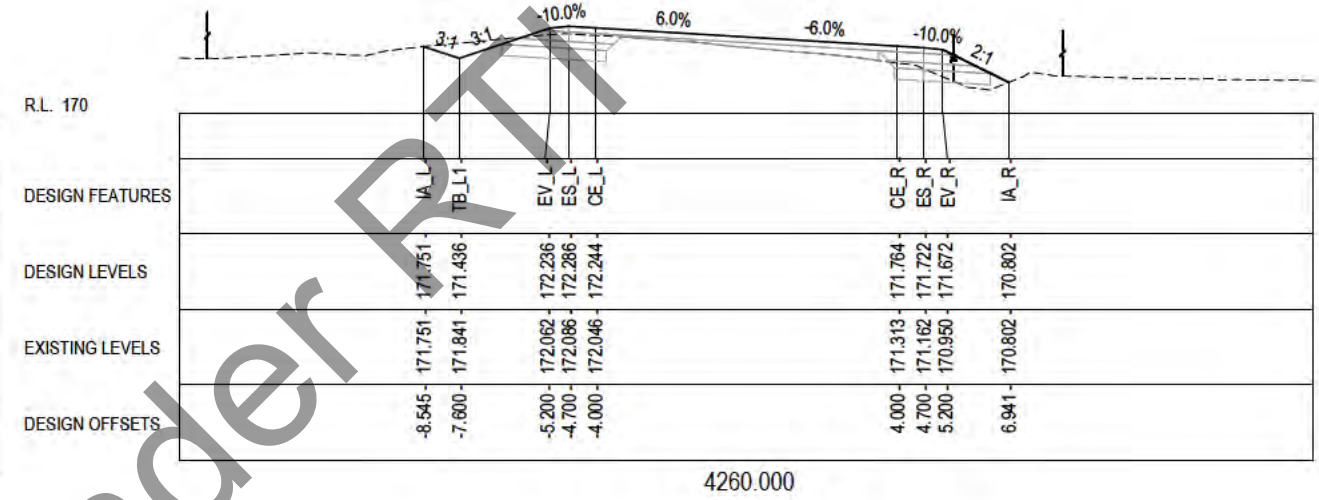
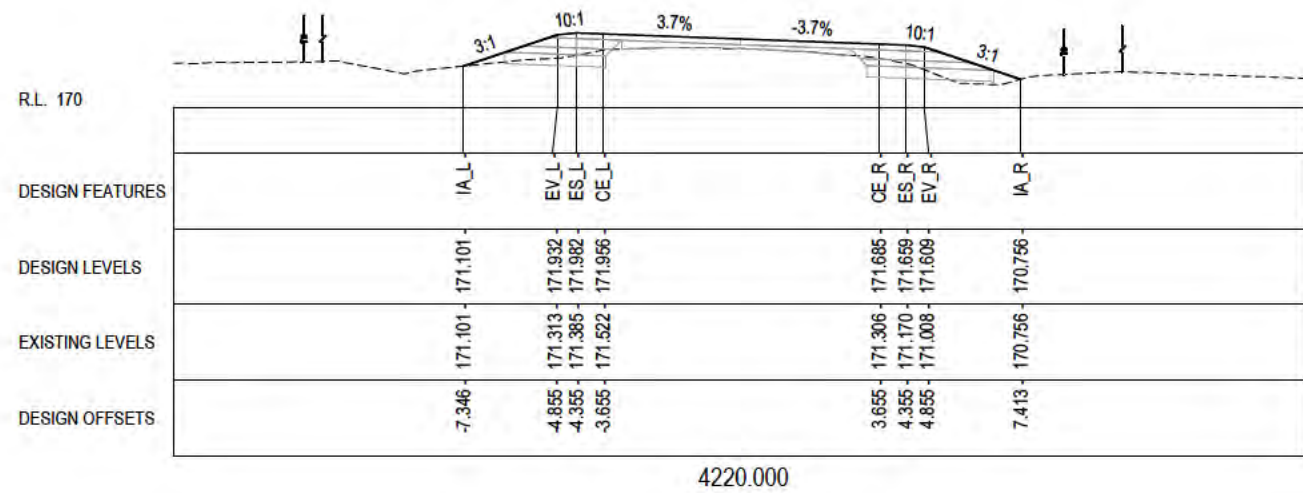
A3 original		This sheet may be prepared using colour and may be incomplete if copied		Co-ordinate System: MGA-Z55 GDA20 Height Datum: A.H.D.		Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2) CROSS SECTIONS (DESIGN LINE CL94) - DRG 42		CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2852	PRINTED DATE 28-Jul-23, 2:07 PM	SHEET No. 2852 REVISION A
A PRELIMINARY DESIGN No. Amendment Description		L.J.B. Initials Date		SCALES 1:200 SCALE IN METRES - 1:200		DESIGNED REVIEWED		REGISTRATION NUMBER A1701.002			











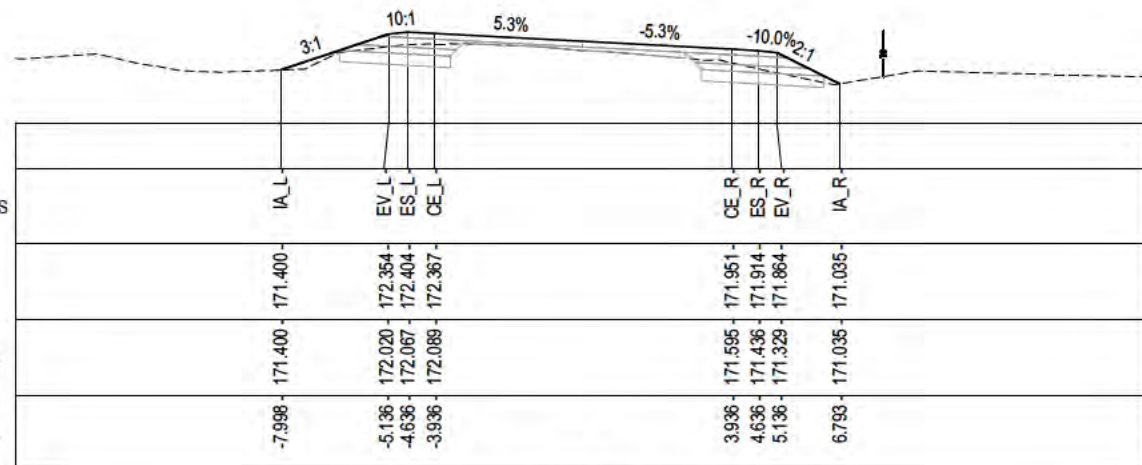
R.L. 170

DESIGN FEATURES

DESIGN LEVELS

EXISTING LEVELS

DESIGN OFFSETS



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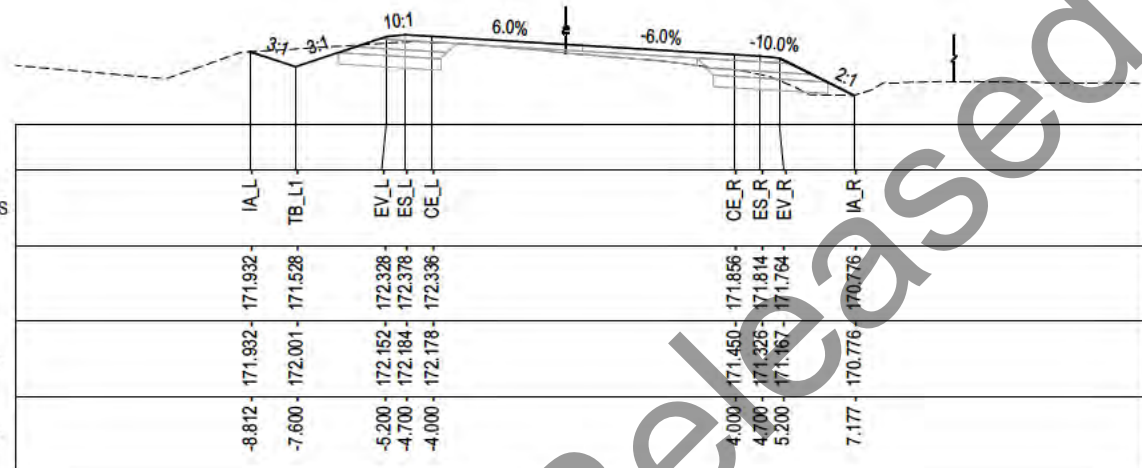
R.L. 170

DESIGN FEATURES

DESIGN LEVELS

EXISTING LEVELS

DESIGN OFFSETS



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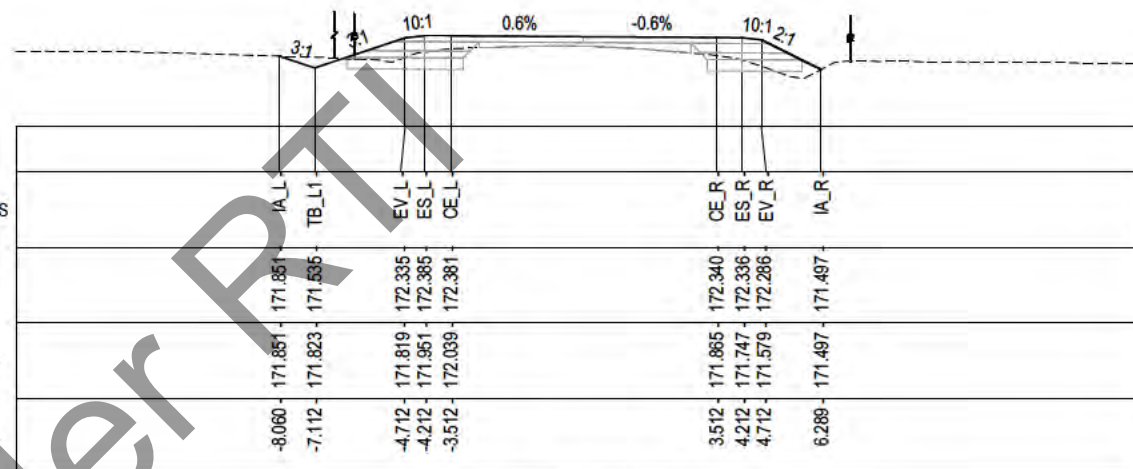
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DESIGN FEATURES

DESIGN LEVELS

EXISTING LEVELS

DESIGN OFFSETS



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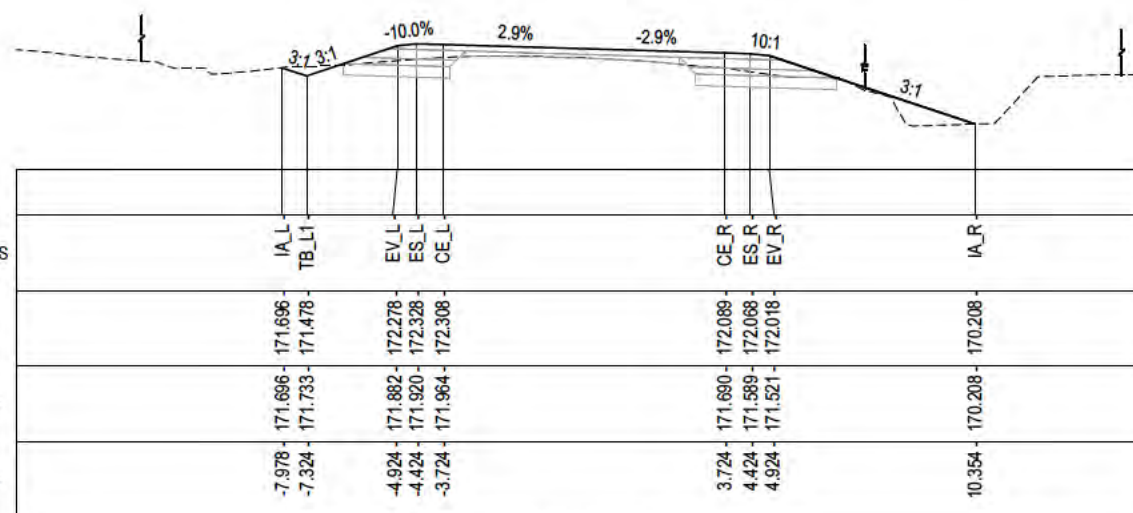
R.L. 169

DESIGN FEATURES

DESIGN LEVELS

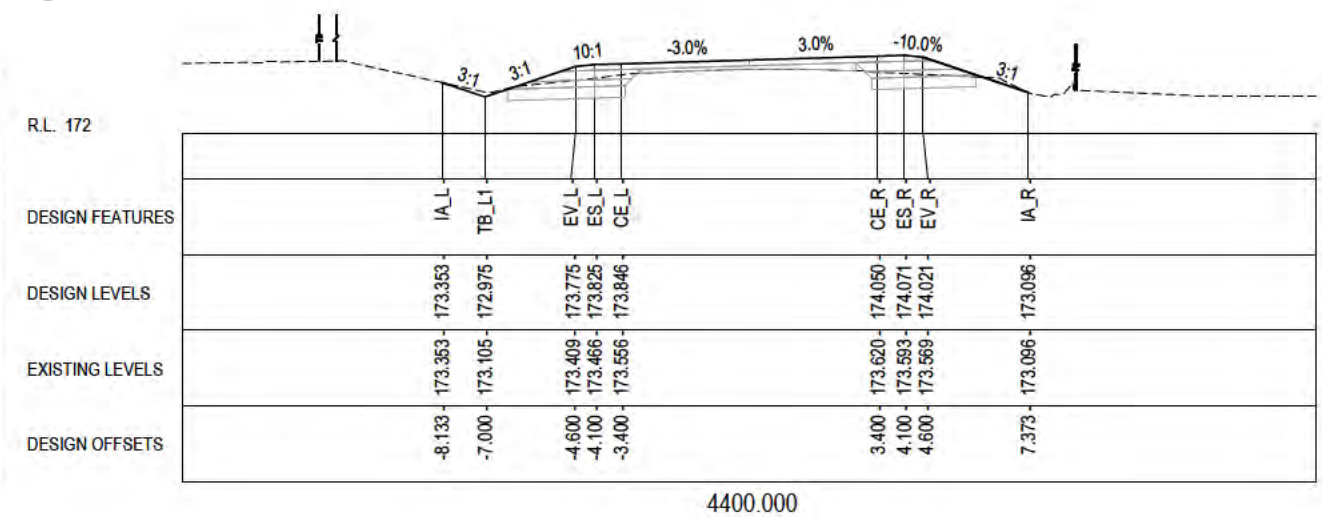
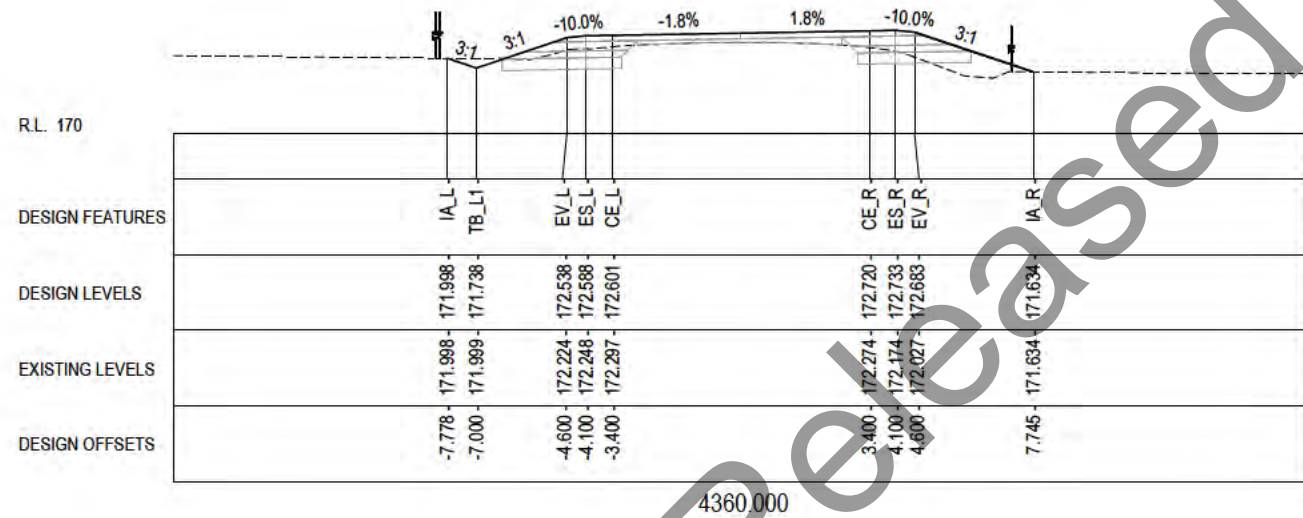
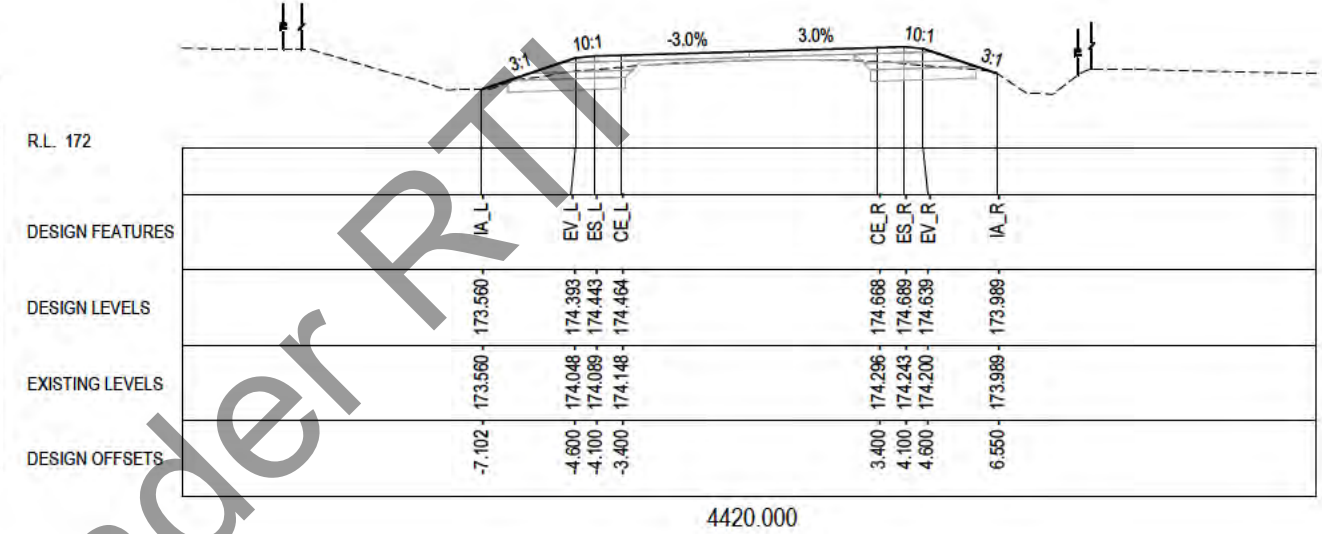
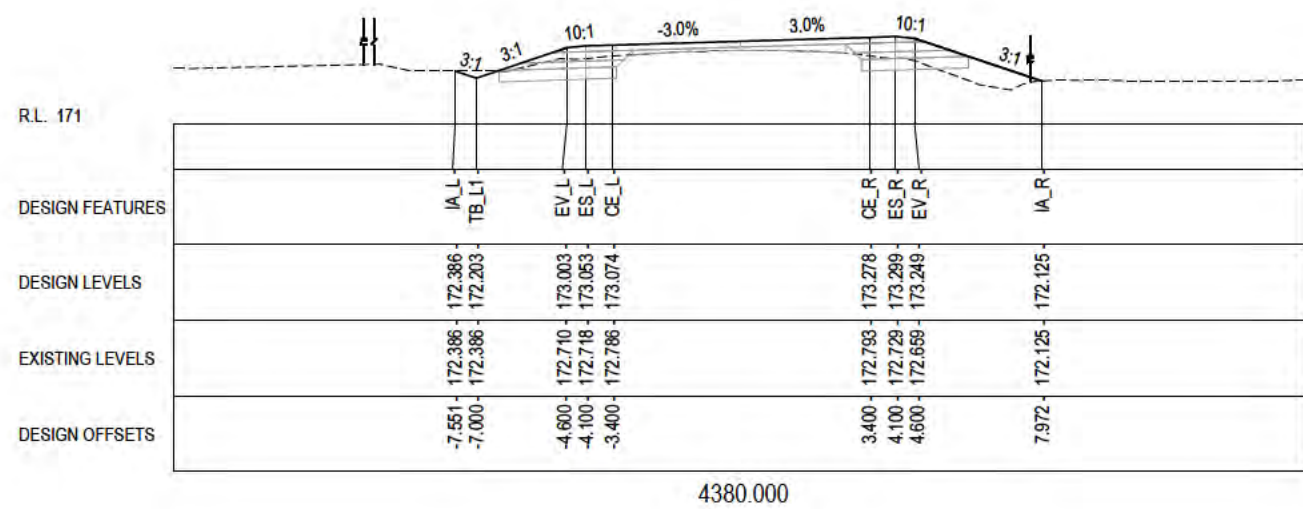
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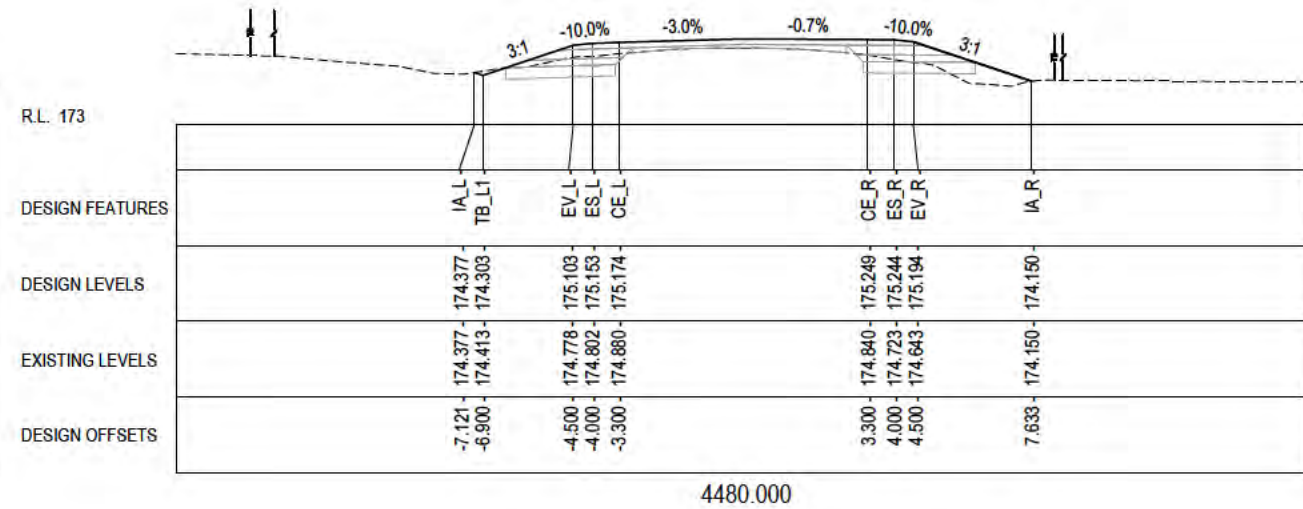
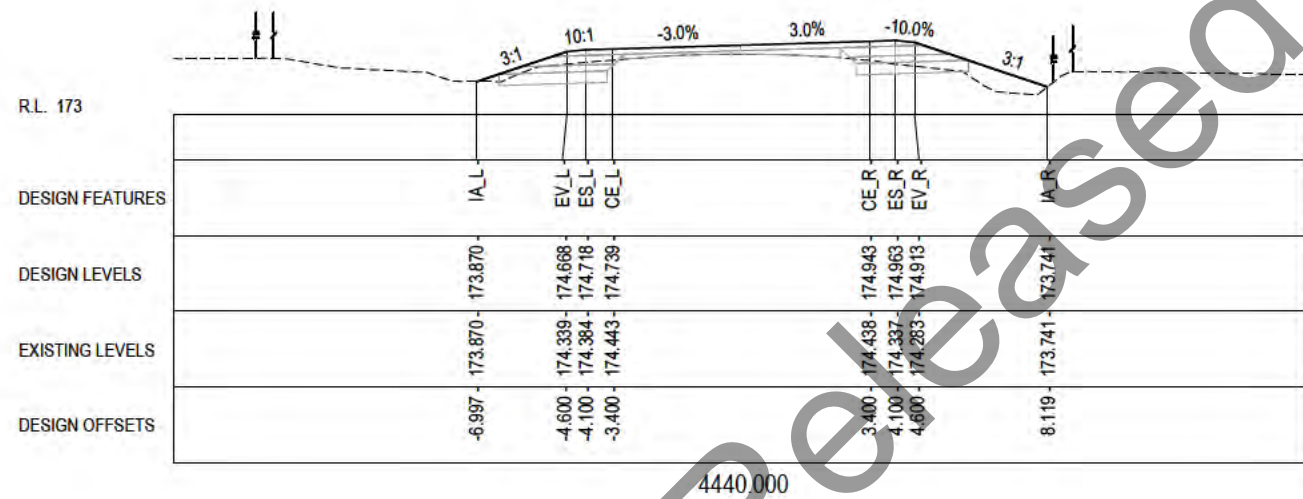
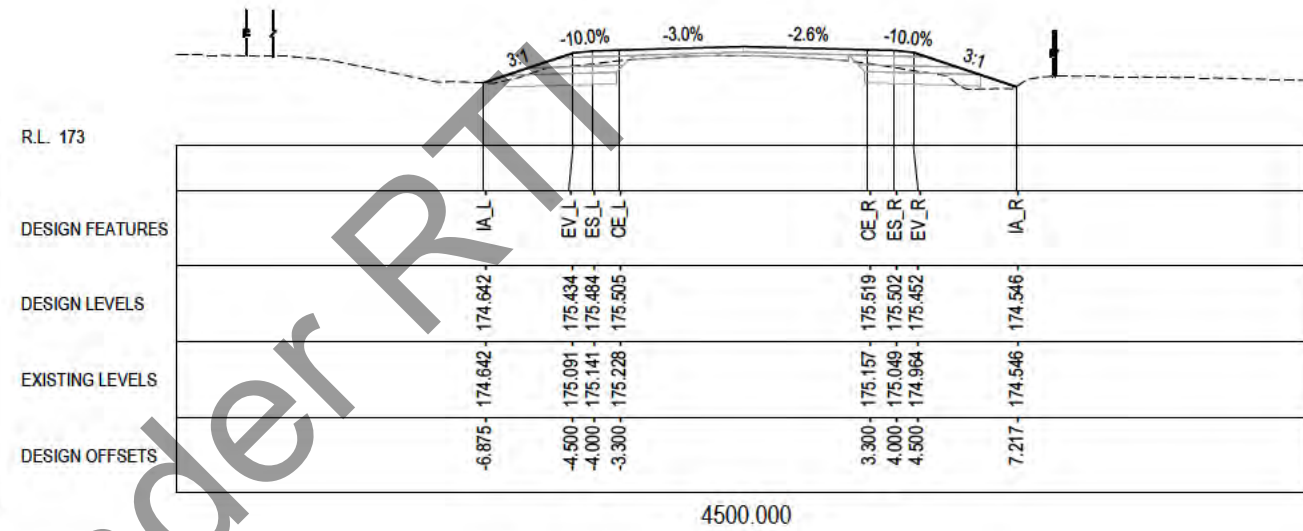
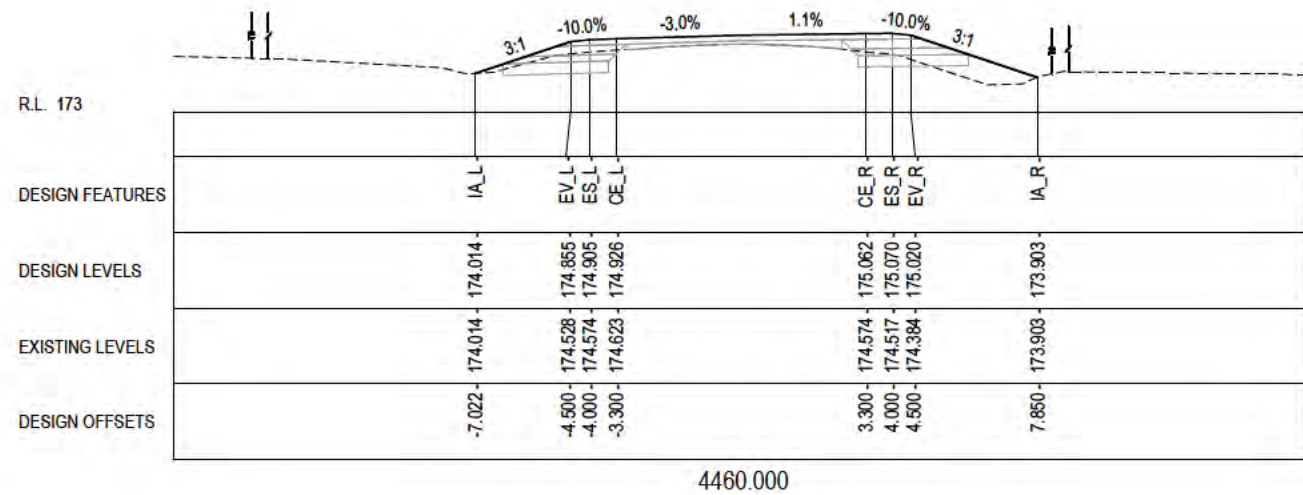
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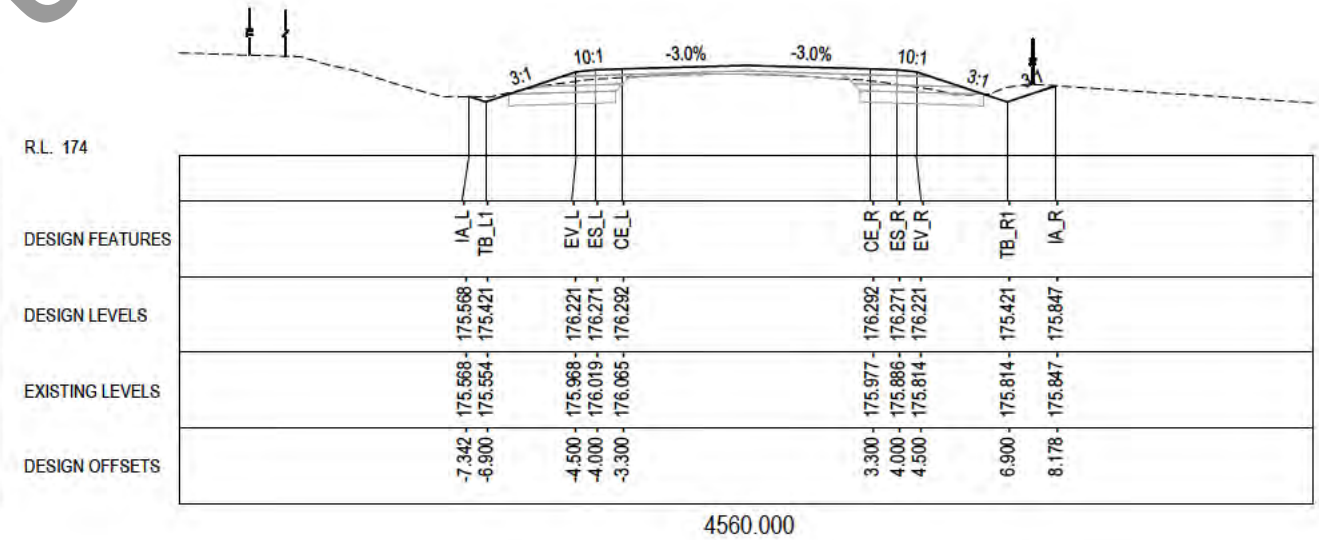
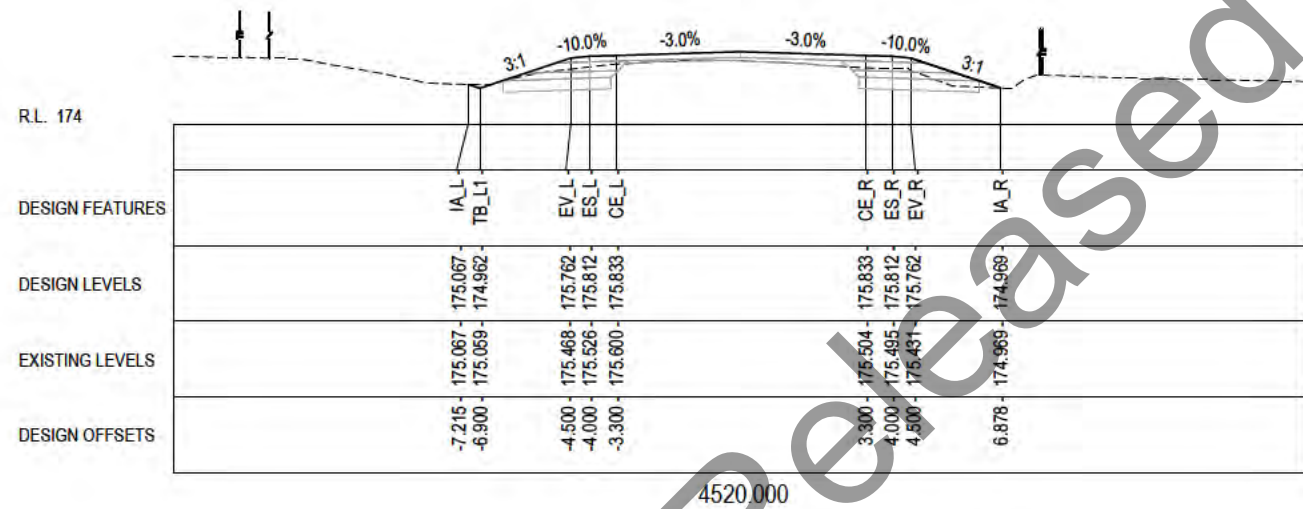
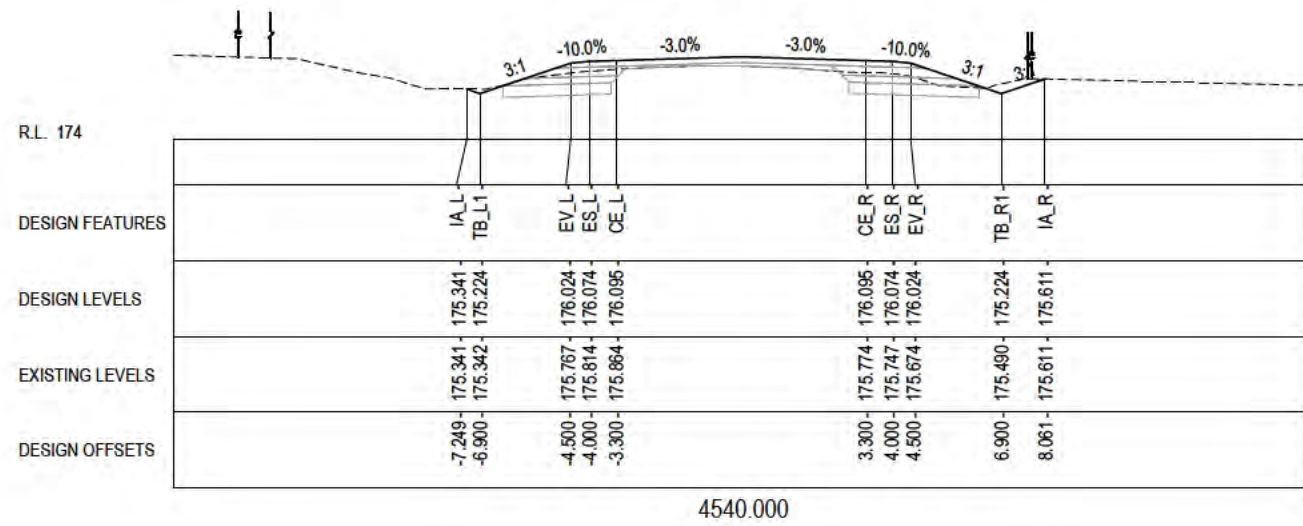


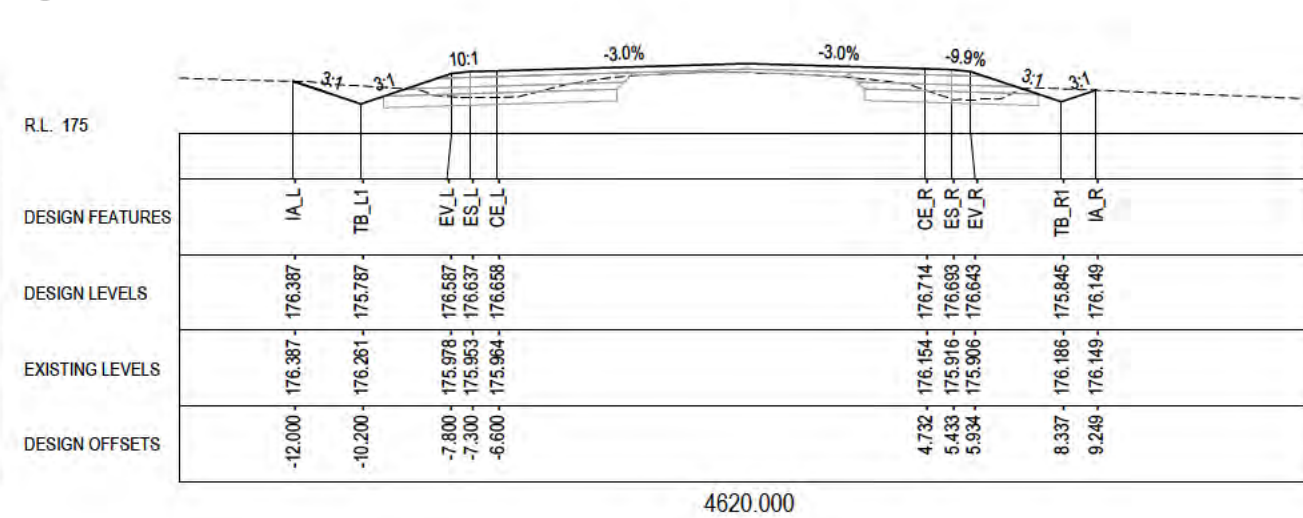
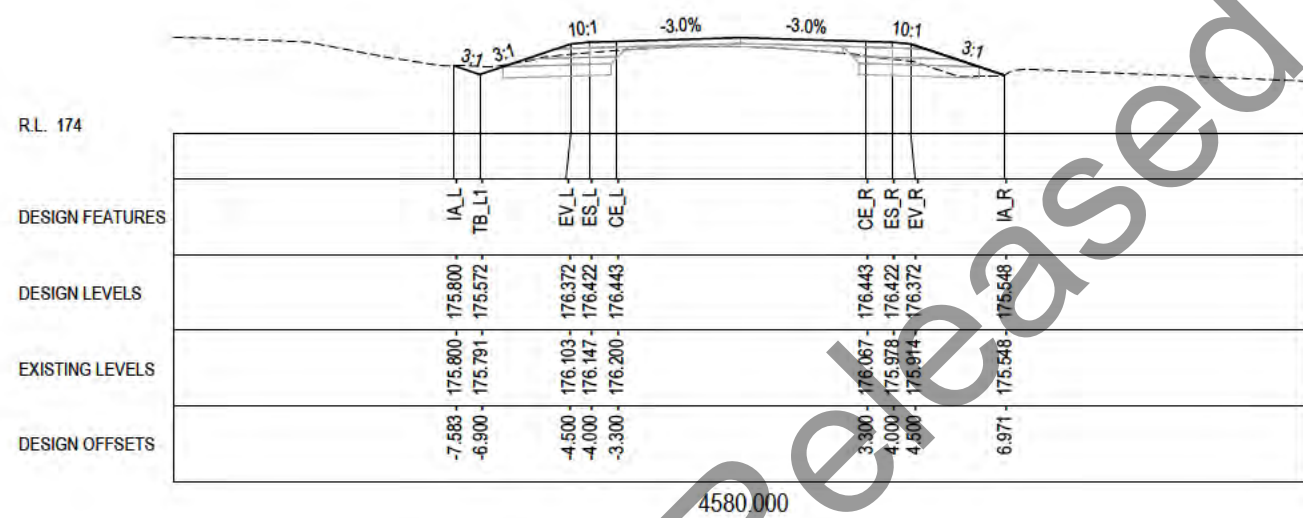
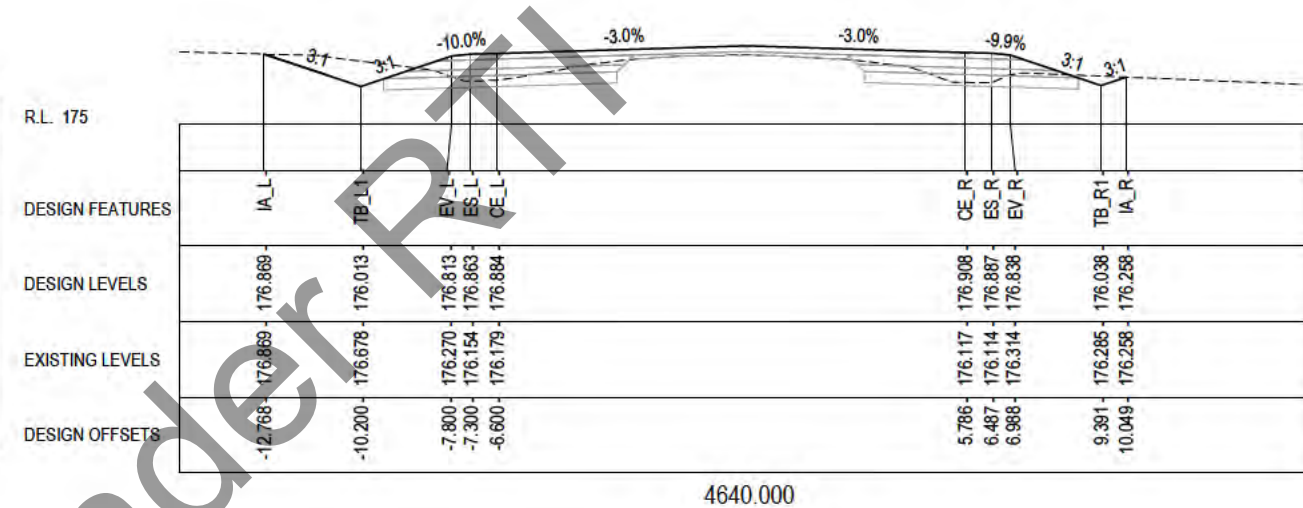
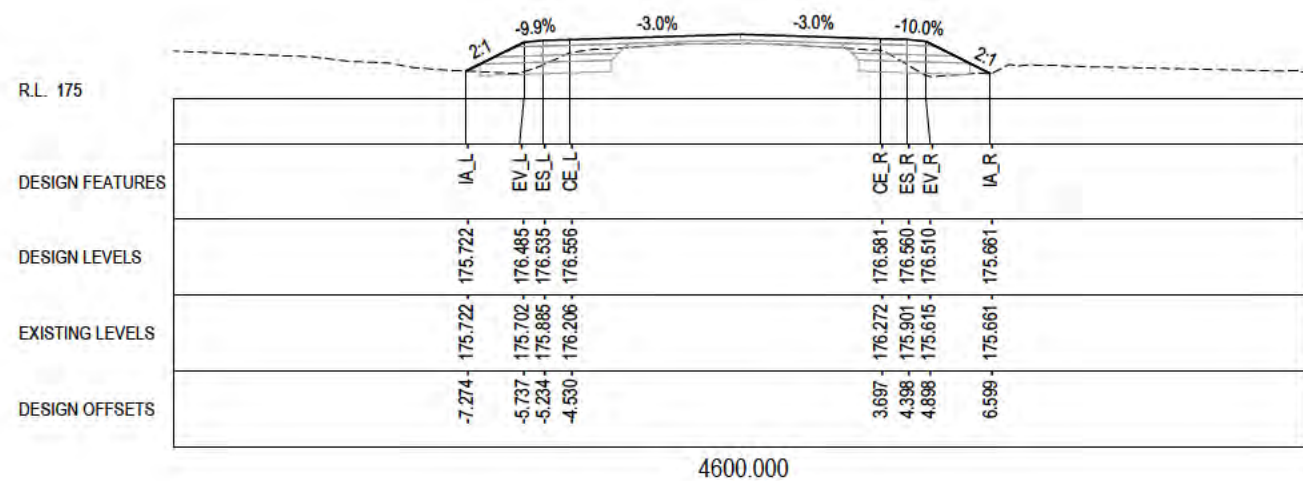
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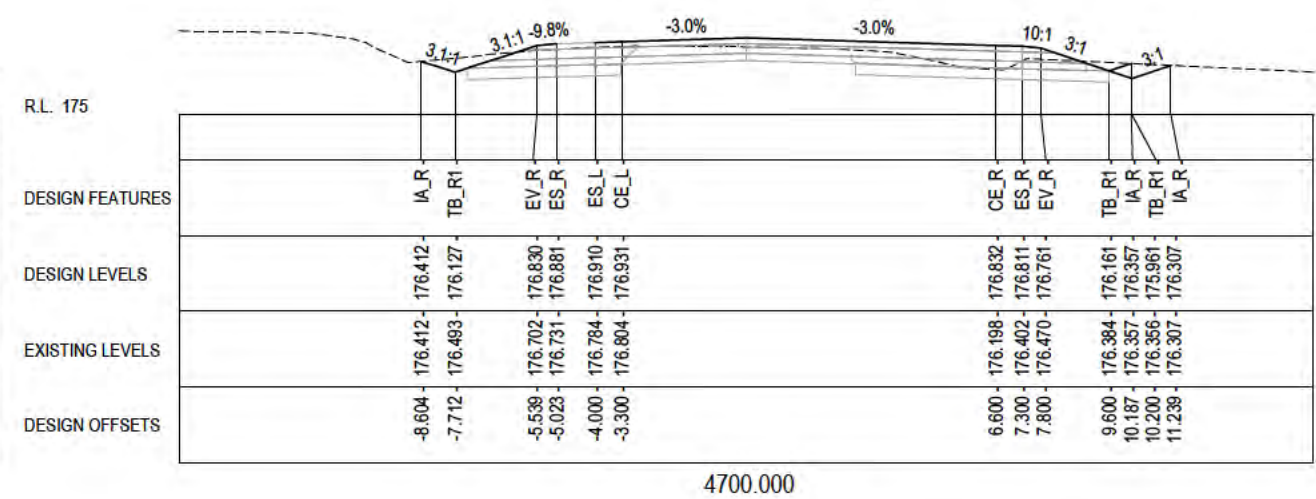
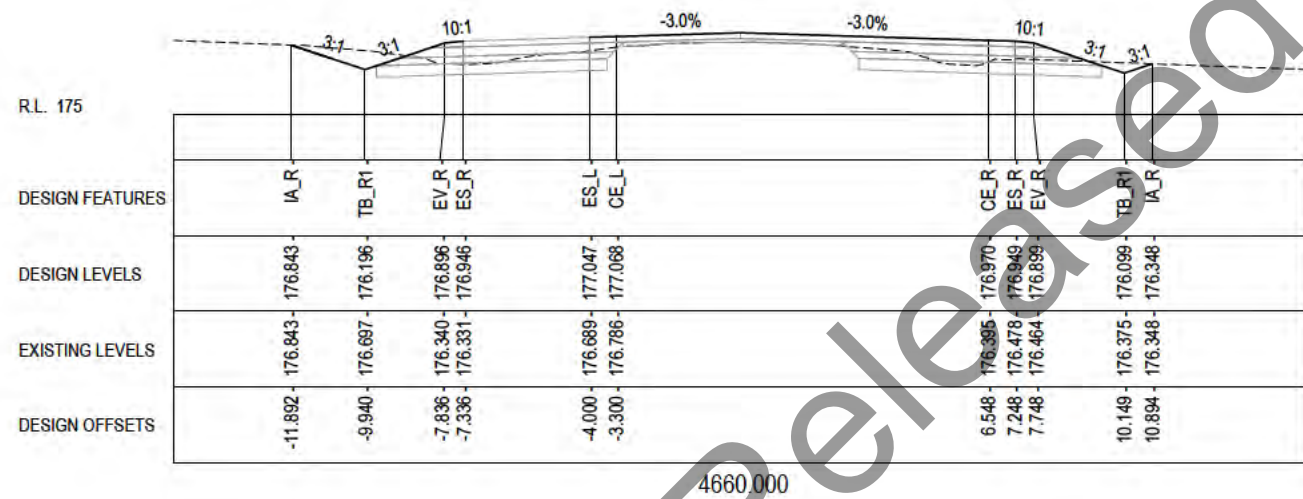
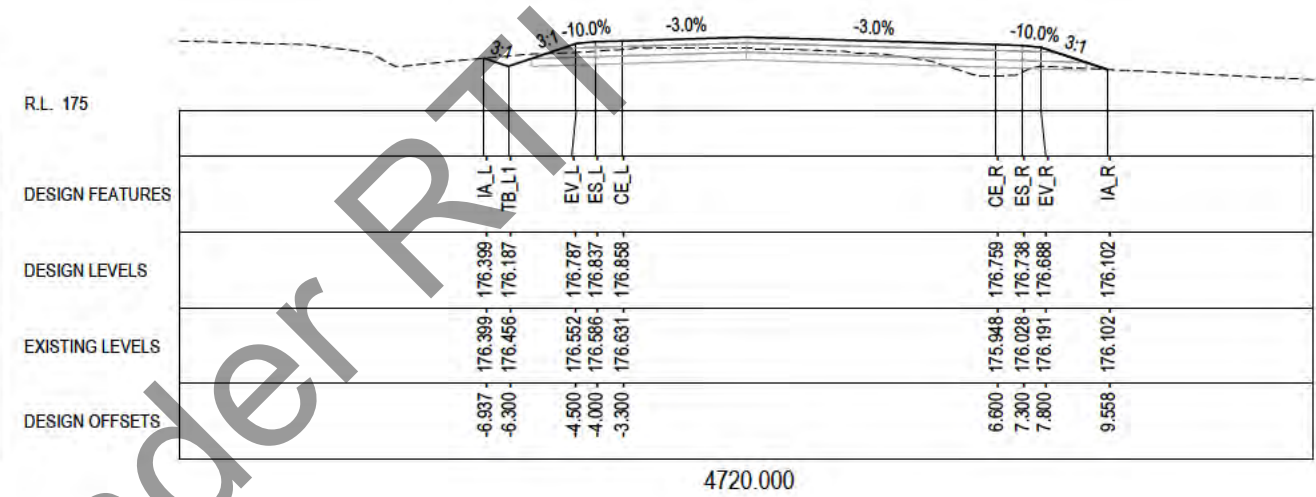
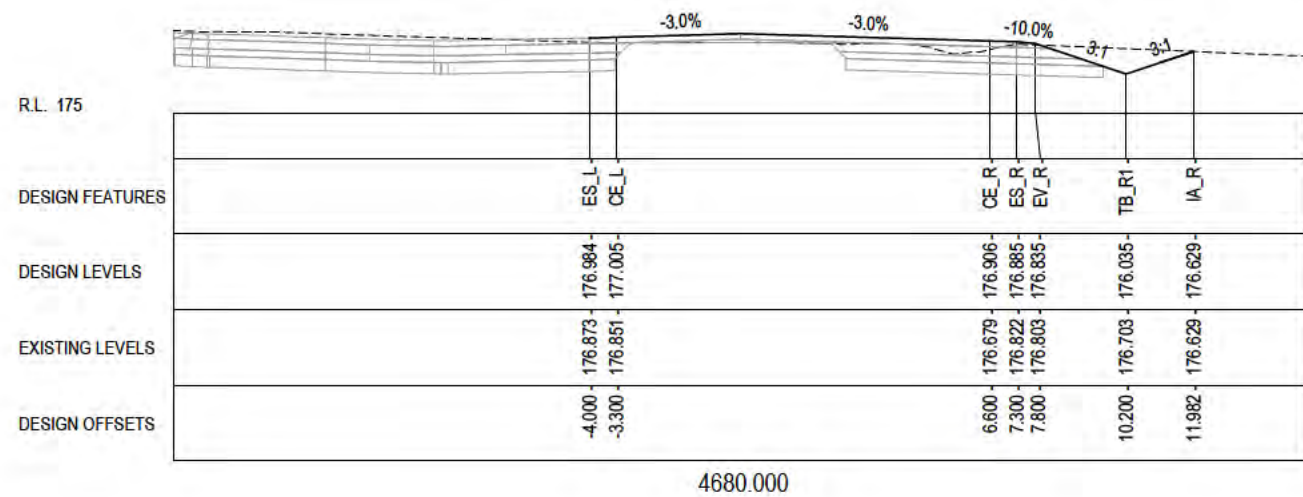
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A		PRELIMINARY DESIGN		L.J.B.		28/07/2023		DESIGNED REVIEWED		REGISTRATION NUMBER A1701.002		REVISION A	
No.		Amendment Description		Initials		Date		CROSS SECTIONS (DESIGN LINE CL94) - DRG 48					
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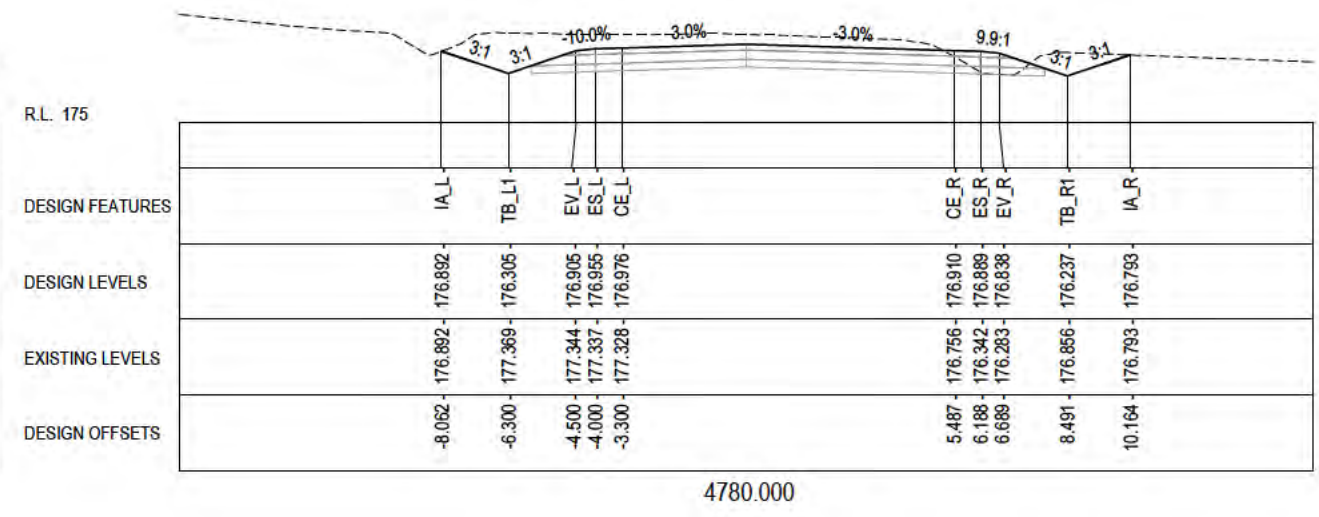
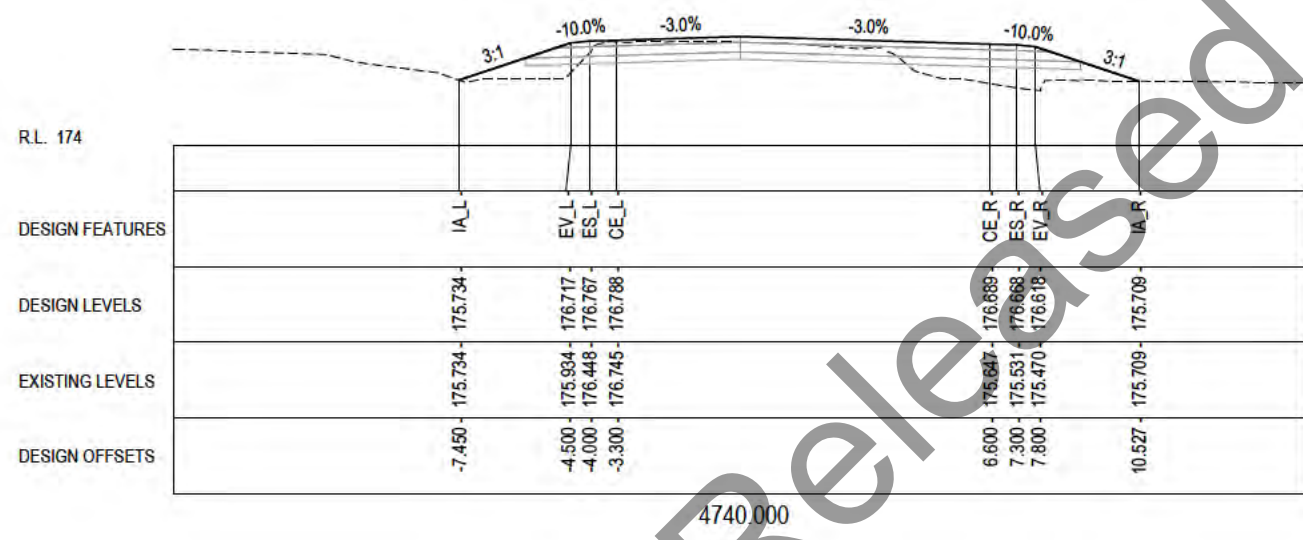
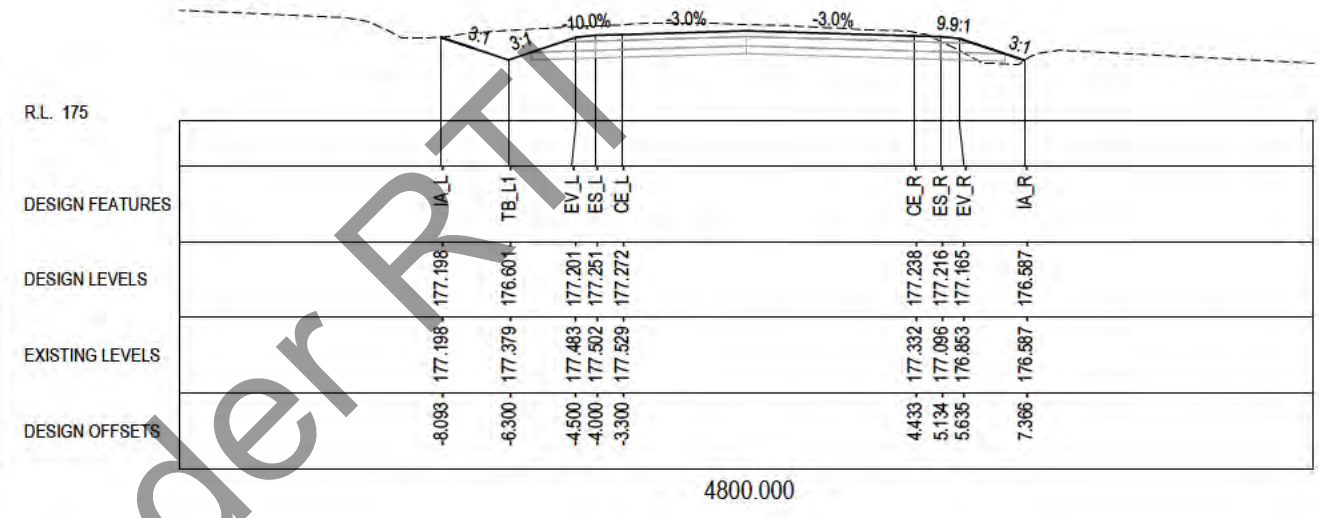
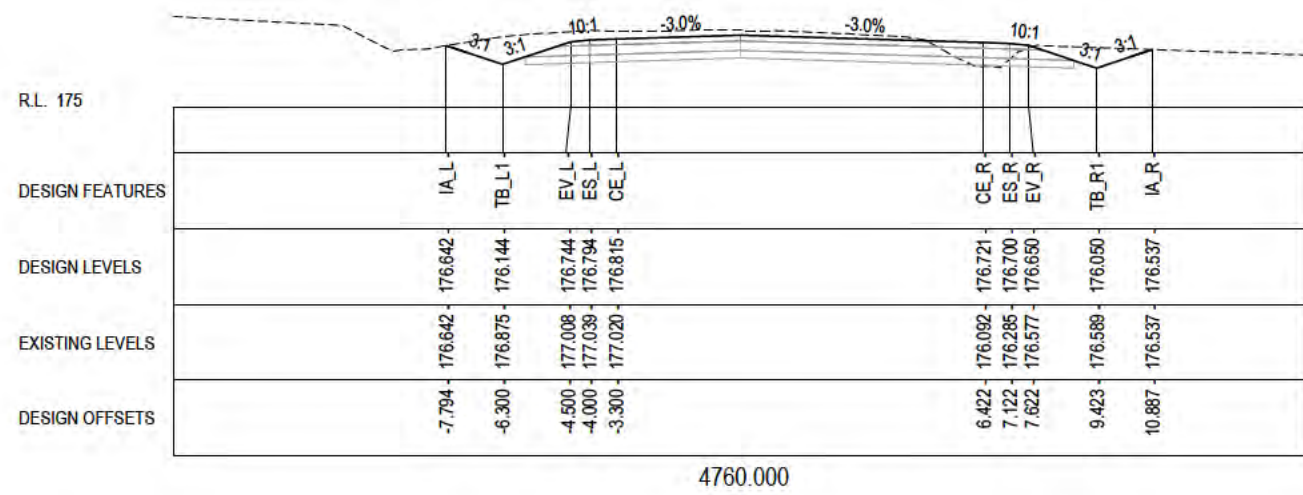


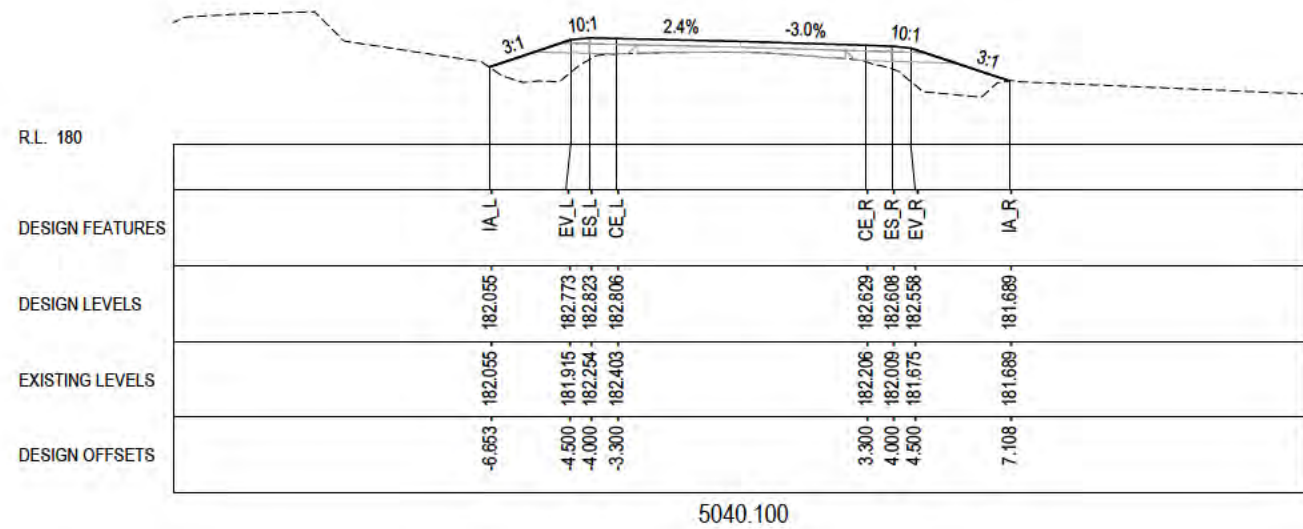




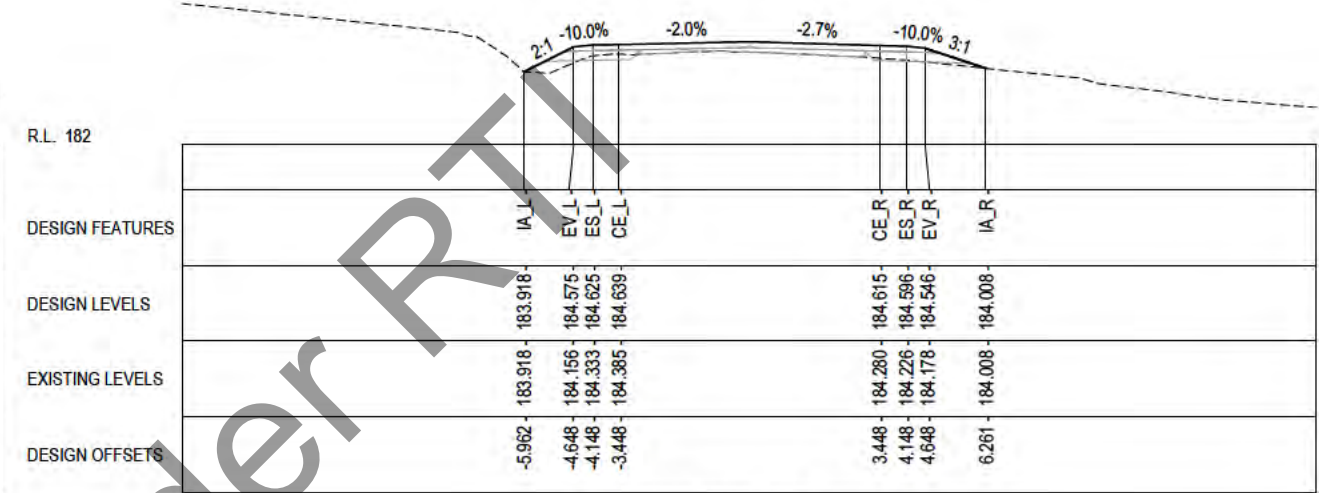


				SCALES 1:200 SCALE IN METRES - 1:200		pitt&sherry DESIGNED REVIEWED		Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2) CROSS SECTIONS (DESIGN LINE CL94) - DRG 53		CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2863	PRINTED DATE 28-Jul-23, 2:08 PM	SHEET No. 2863
A		PRELIMINARY DESIGN		L.J.B.		28/07/2023				REGISTRATION NUMBER A1701.002			
No.		Amendment Description		Initials		Date							
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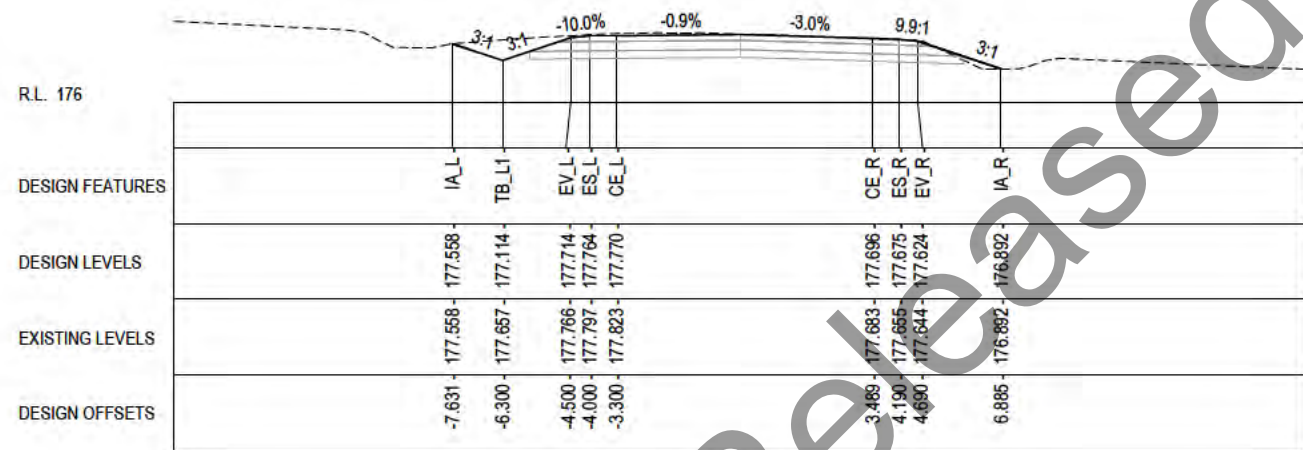




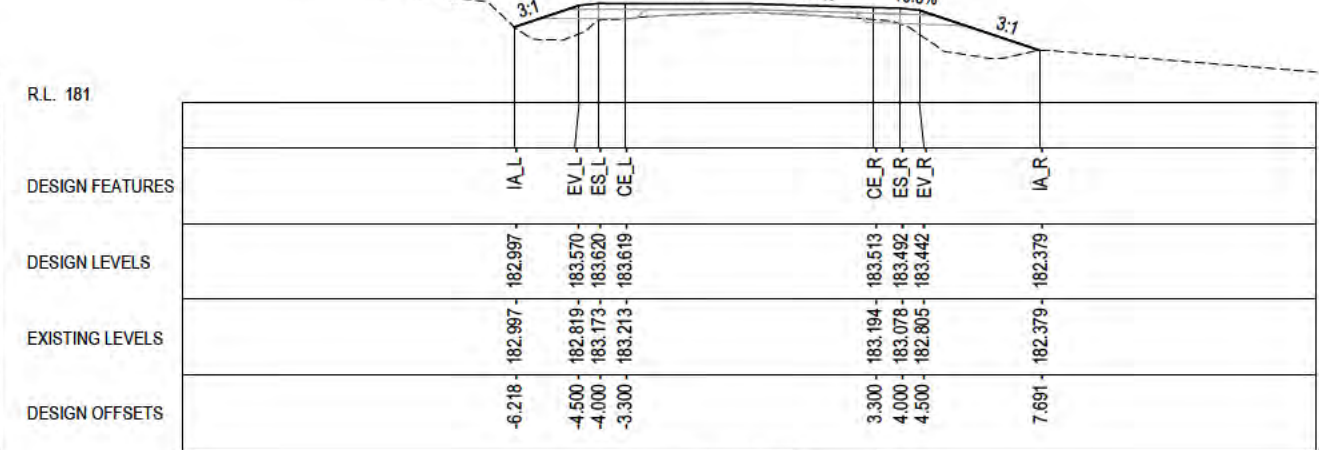
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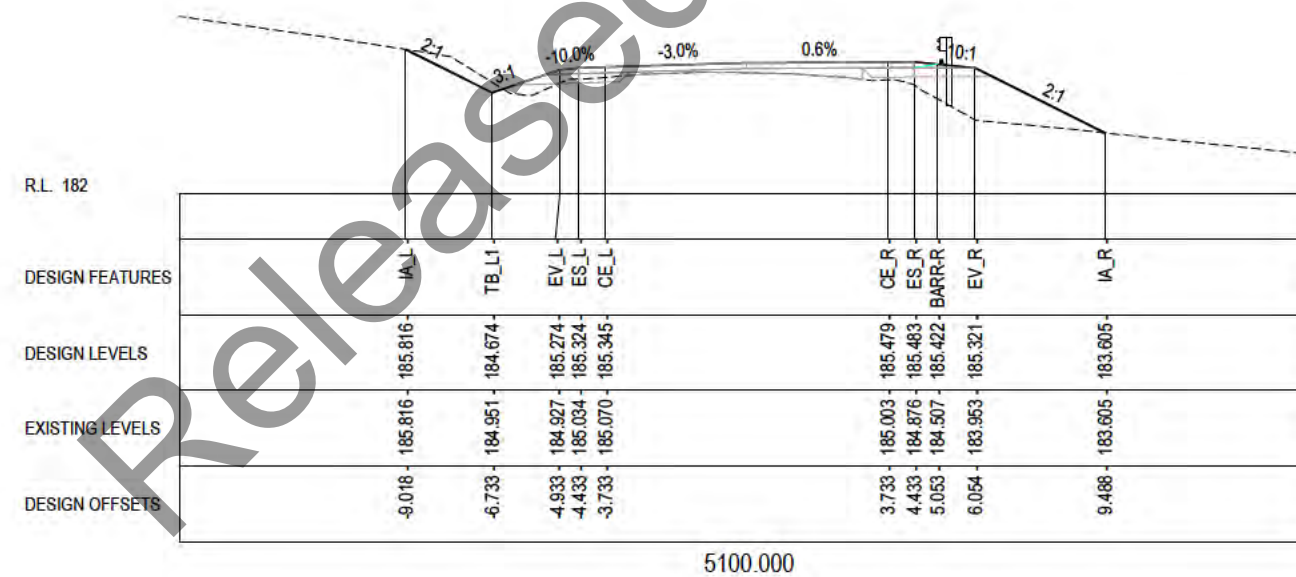
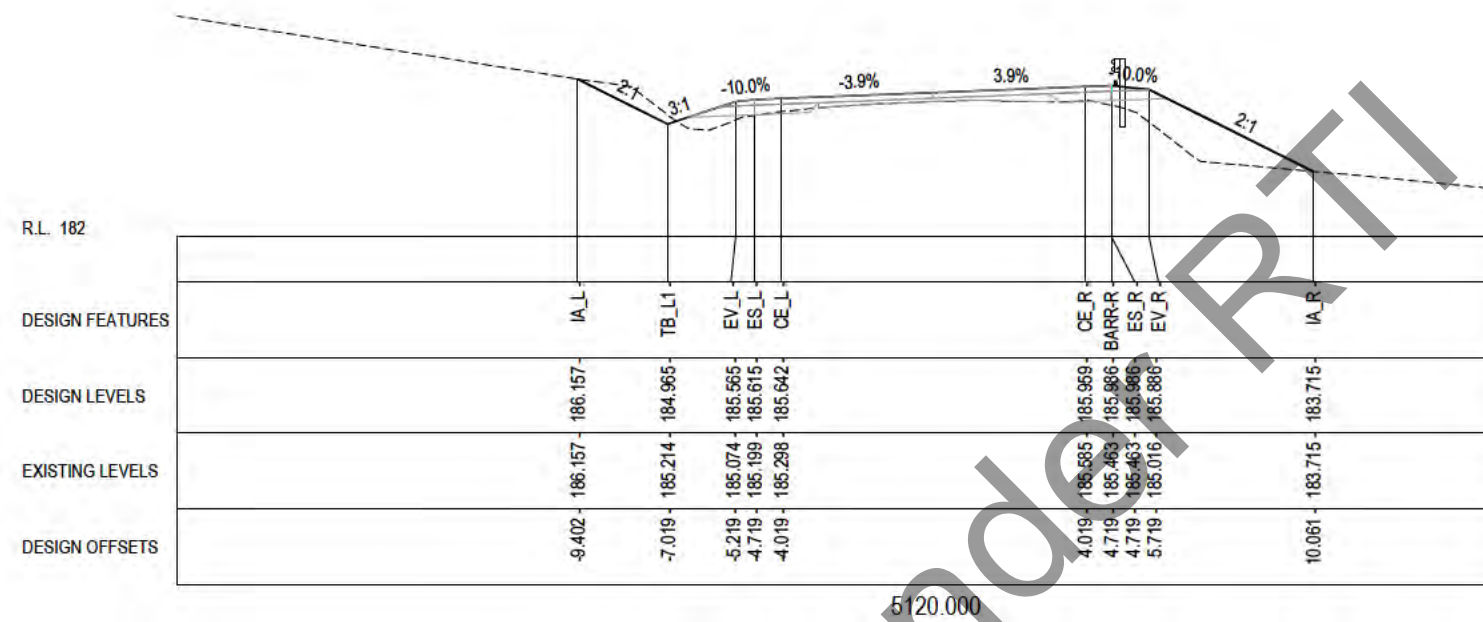
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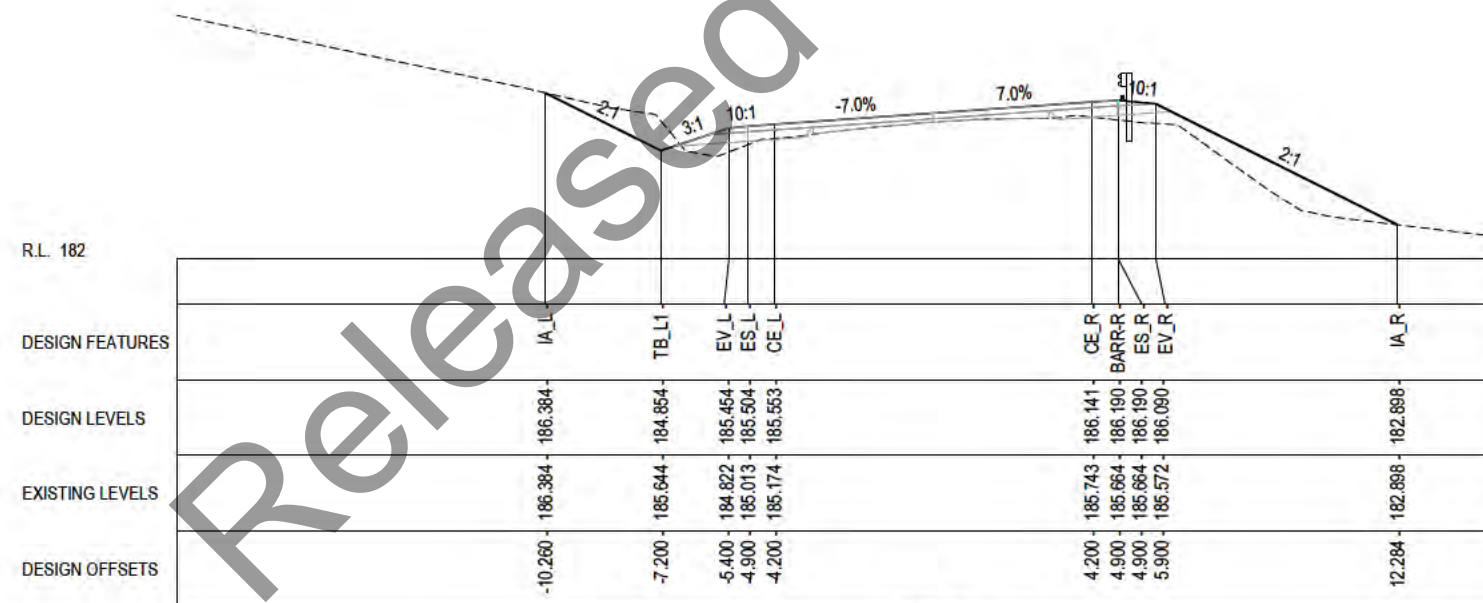
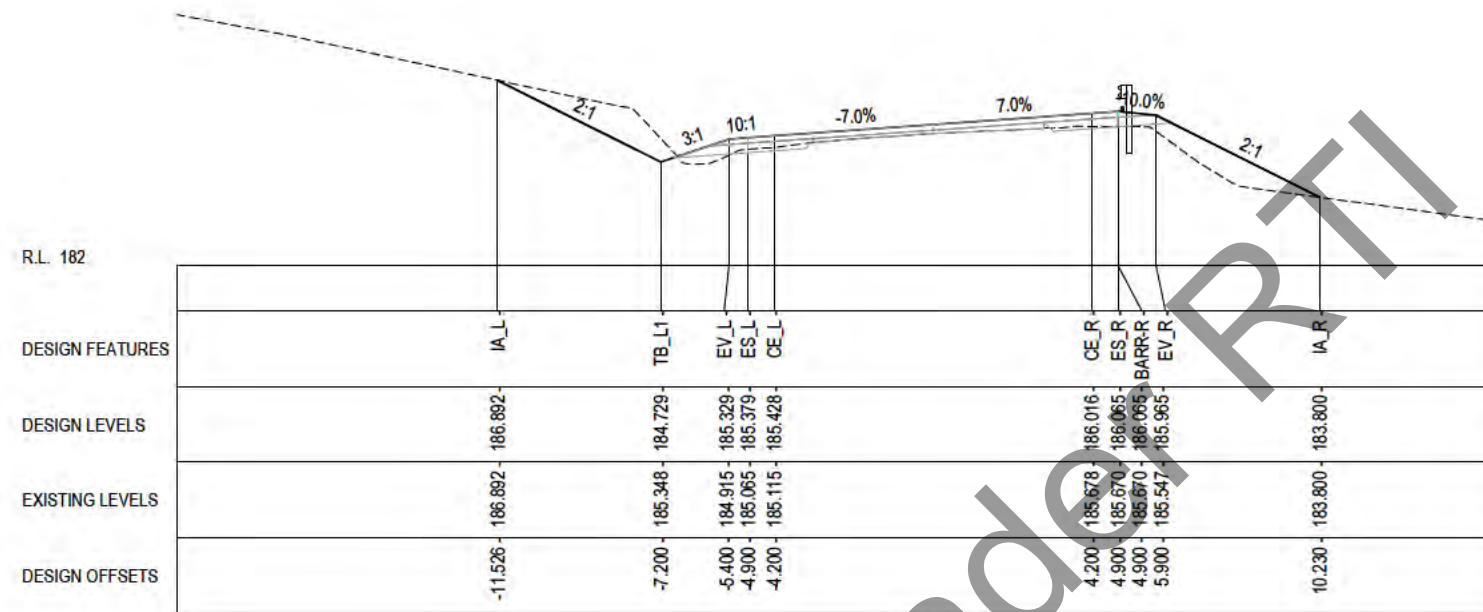
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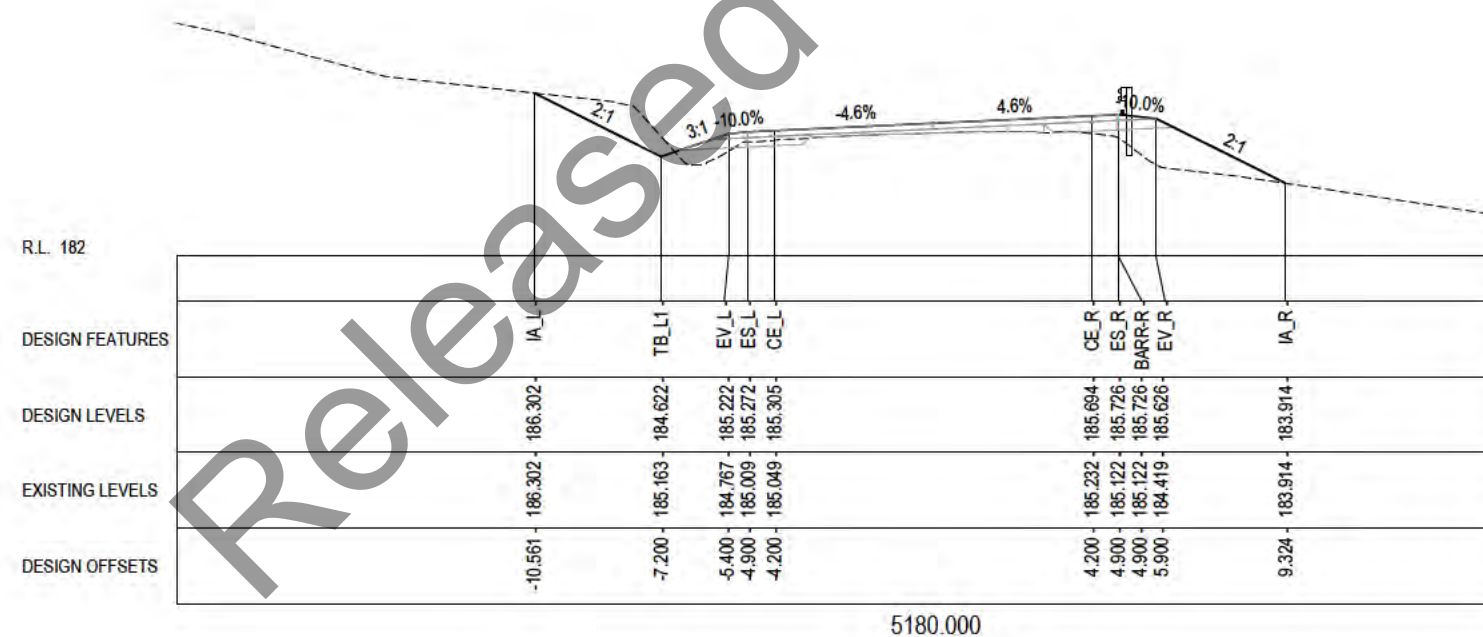
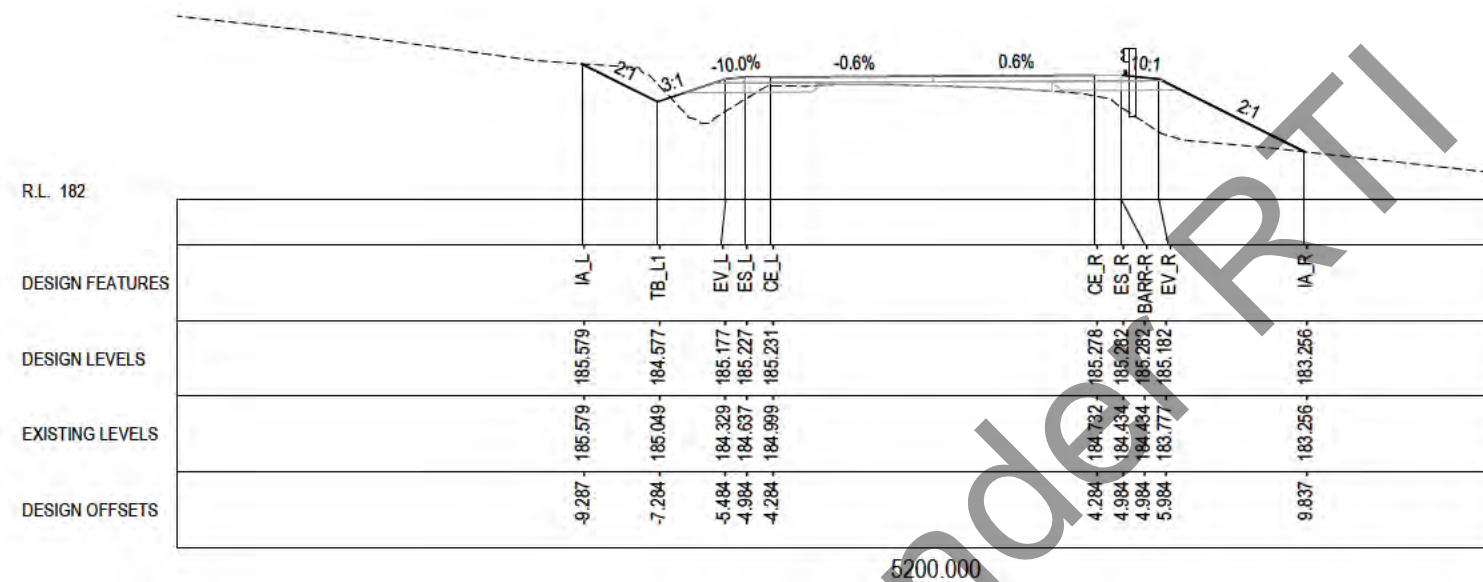
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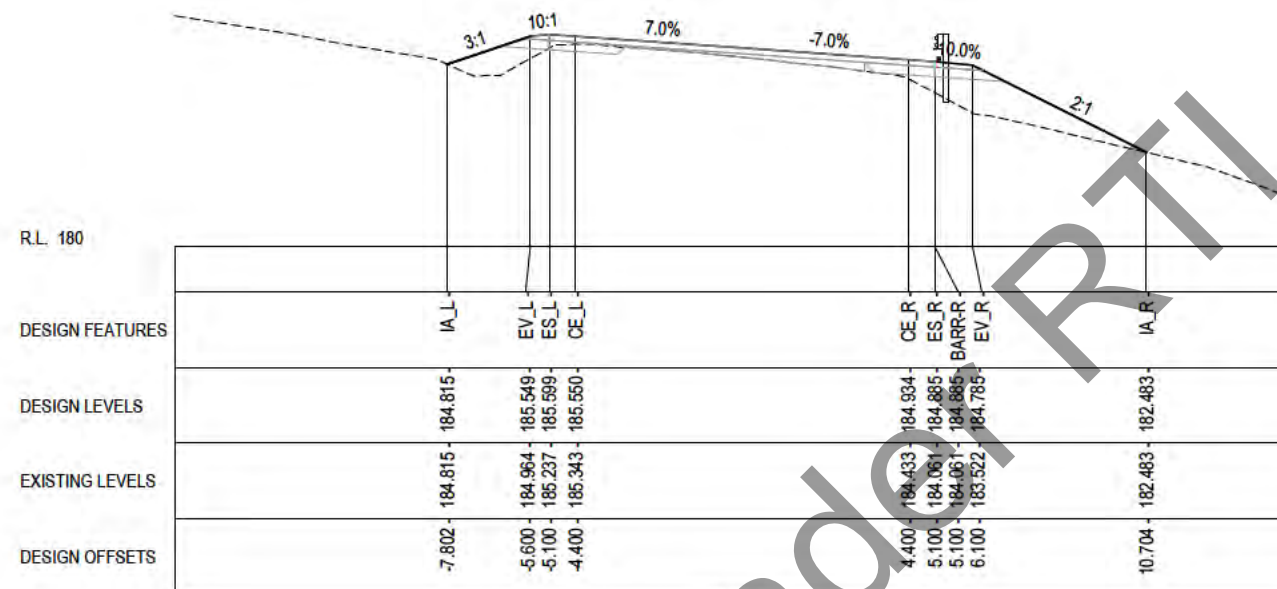
				SCALES 1:200 SCALE IN METRES - 1:200		pitt&sherry DESIGNED REVIEWED		Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2) CROSS SECTIONS (DESIGN LINE CL94) - DRG 56		CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2866	PRINTED DATE 28-Jul-23, 2:08 PM	SHEET No. 2866
A PRELIMINARY DESIGN No. Amendment Description		L.J.B. Initials		28/07/2023 Date						REGISTRATION NUMBER A1701.002		REVISION A	
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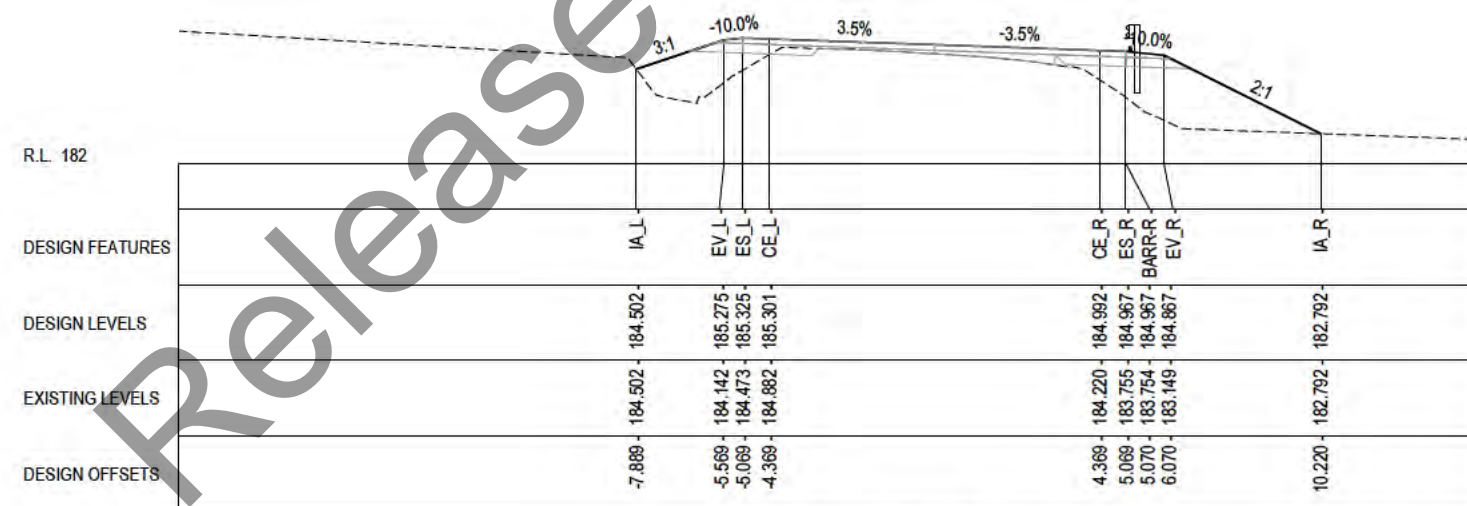
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A PRELIMINARY DESIGN L.J.B. 28/07/2023		No. Amendment Description Initials Date		SCALES 1:200 SCALE IN METRES - 1:200		DESIGNED REVIEWED		REGISTRATION NUMBER A1701.002			



				Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2868	PRINTED DATE 28-Jul-23, 2:08 PM	SHEET No. 2868
SCALES 1:200 SCALE IN METRES - 1:200				REGISTRATION NUMBER A1701.002		REVISION A			
A3 original This sheet may be prepared using colour and may be incomplete if copied				CROSS SECTIONS (DESIGN LINE CL94) - DRG 58					
Co-ordinate System: MGA-Z55 GDA20 Height Datum: A.H.D.				DESIGNED REVIEWED					
Amendment Description Initials Date				DESIGNED REVIEWED					
Amendment Description Initials Date				DESIGNED REVIEWED					

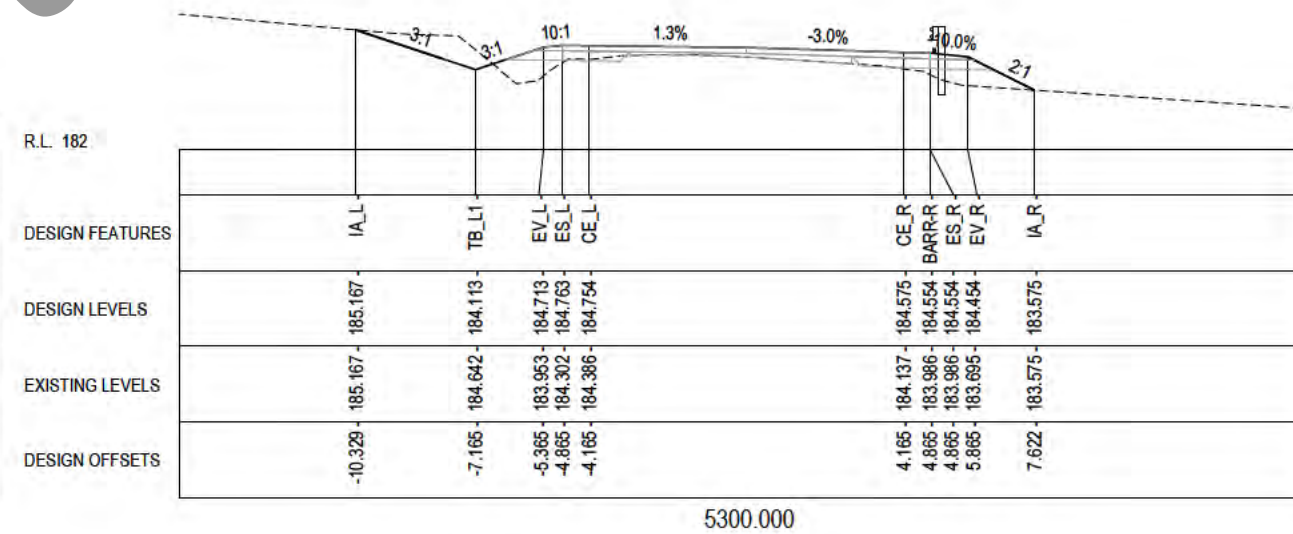
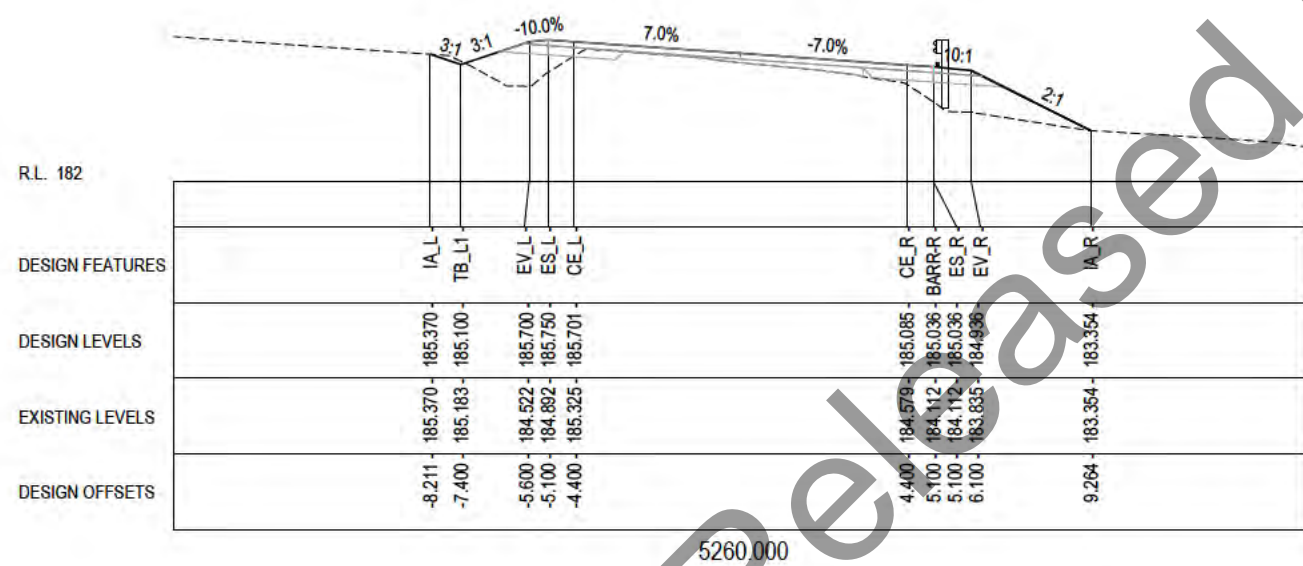
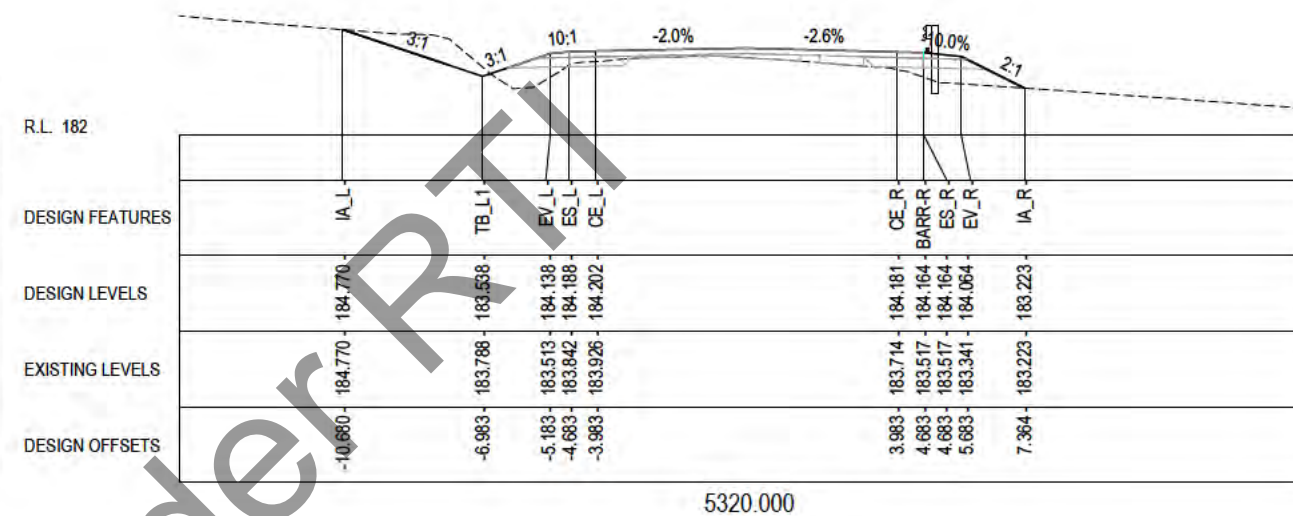
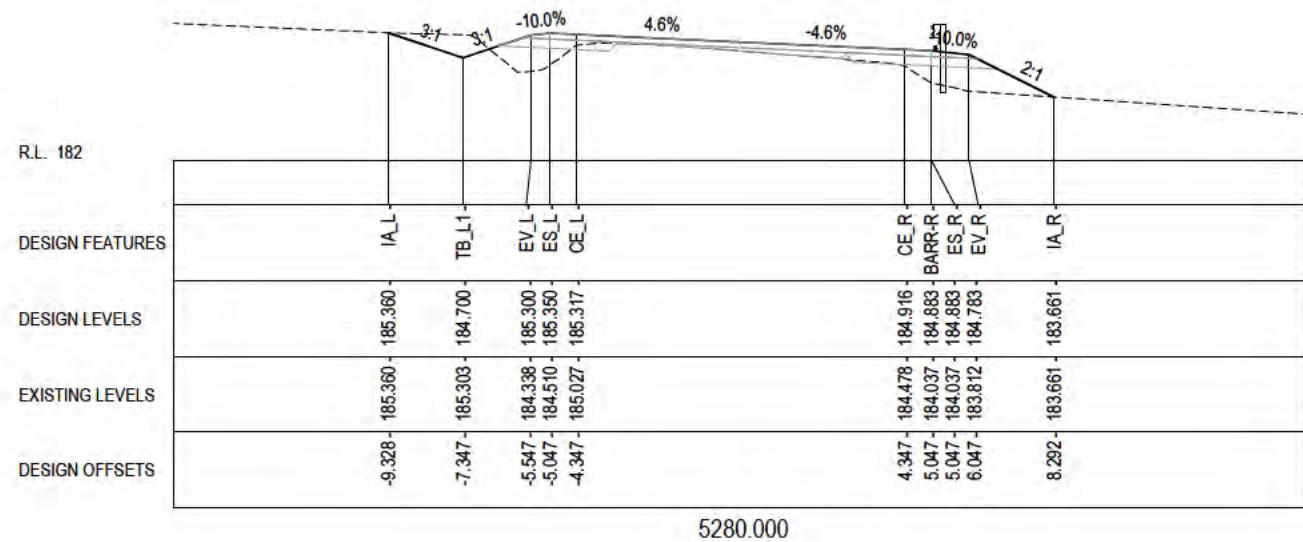


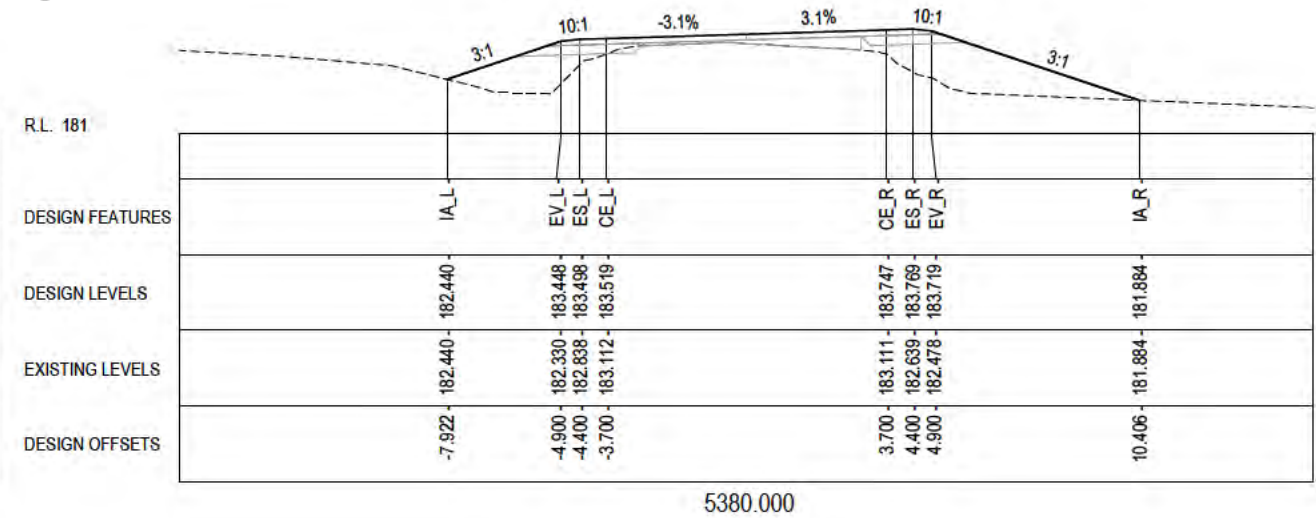
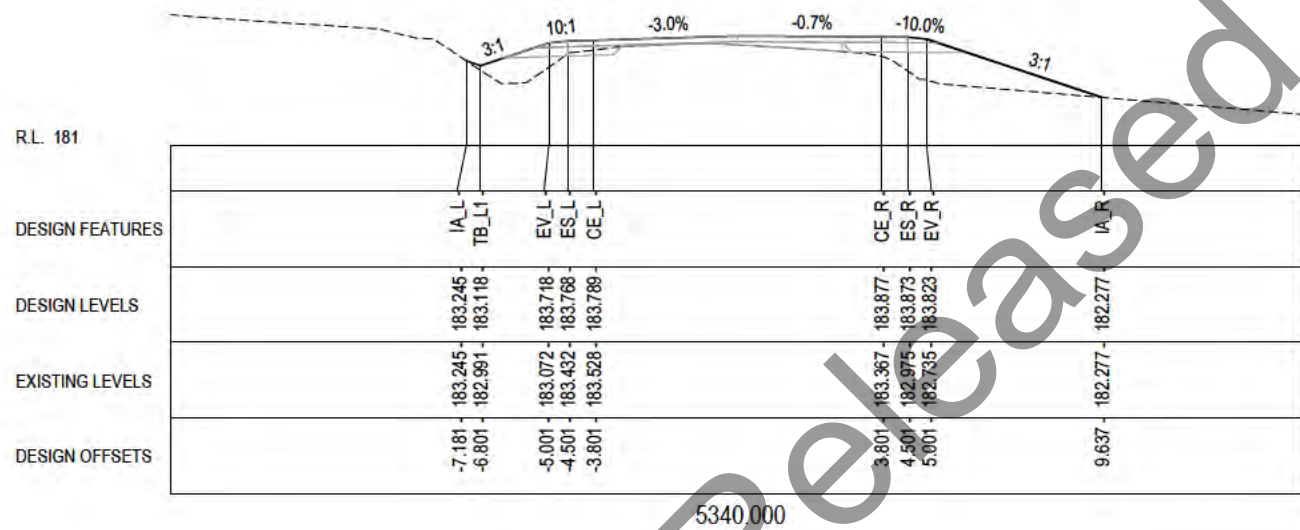
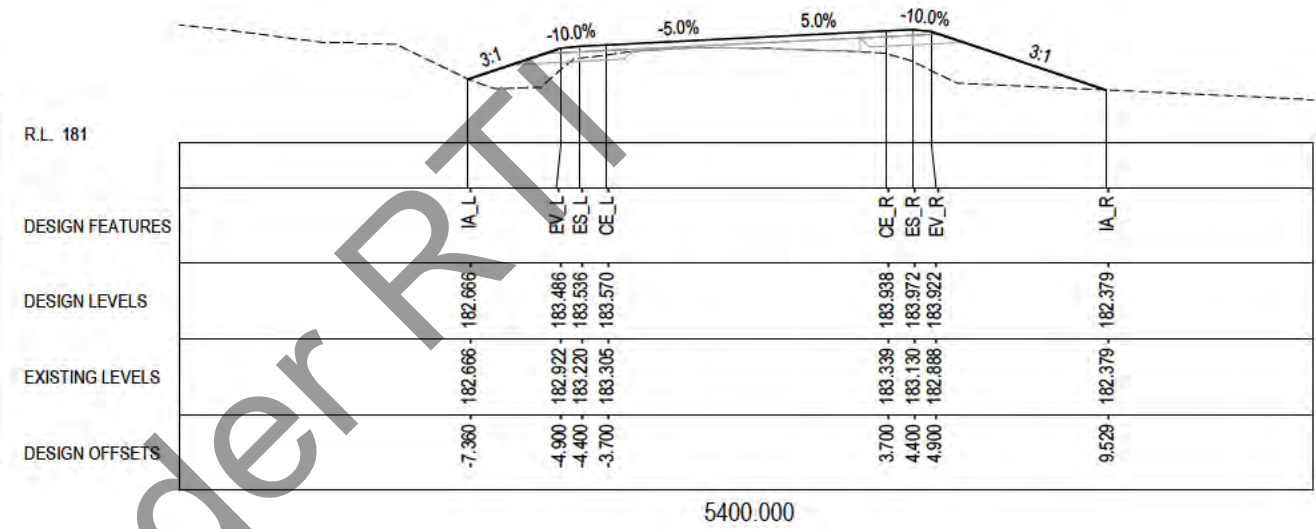
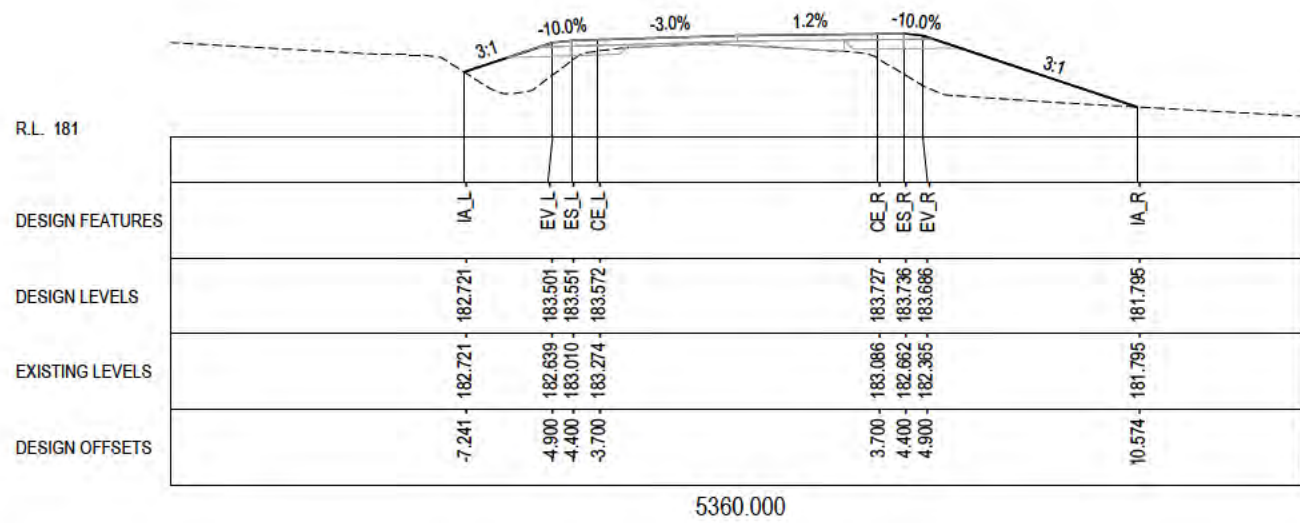
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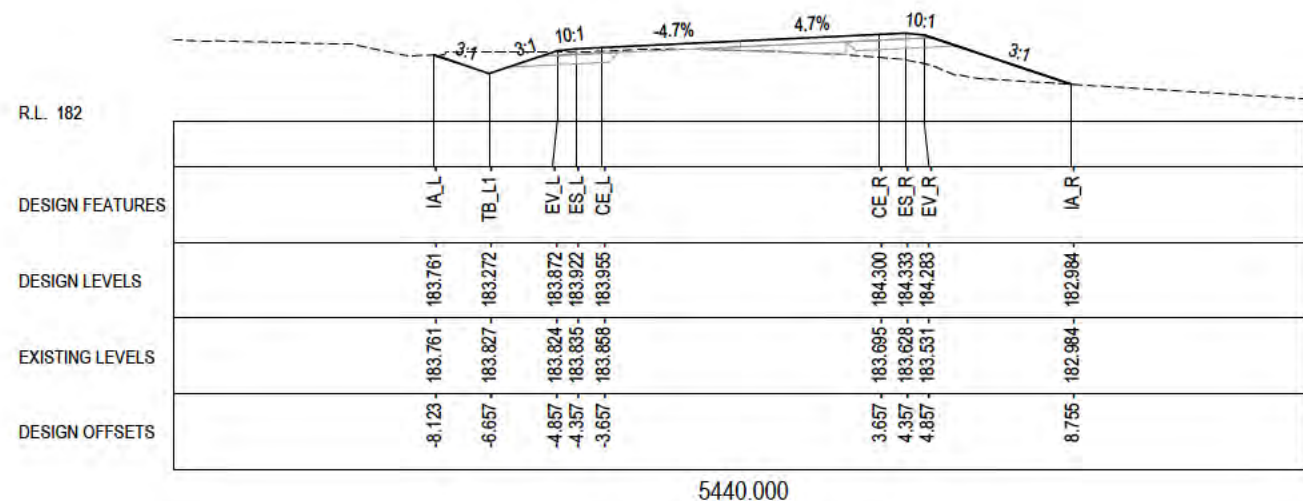


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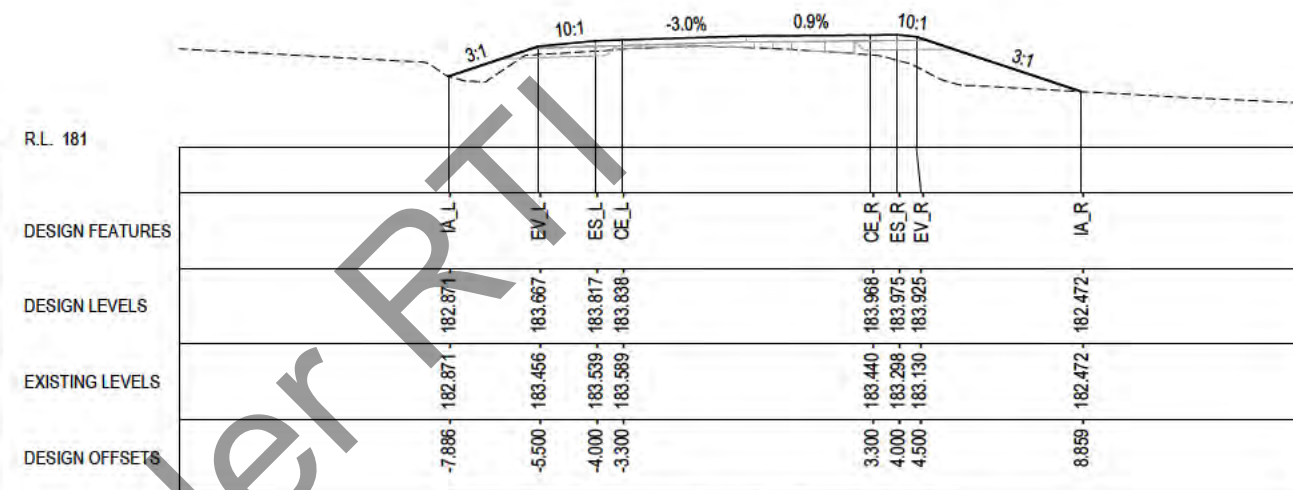
				SCALES 1:200 SCALE IN METRES - 1:200				Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2869	PRINTED DATE 28-Jul-23, 2:08 PM	SHEET No. 2869
A PRELIMINARY DESIGN L.J.B. 28/07/2023 No. Amendment Description Initials Date				Co-ordinate System: MGA-Z55 GDA20 Height Datum: A.H.D.		DESIGNED REVIEWED		CROSS SECTIONS (DESIGN LINE CL94) - DRG 59		REGISTRATION NUMBER A1701.002		REVISION A	



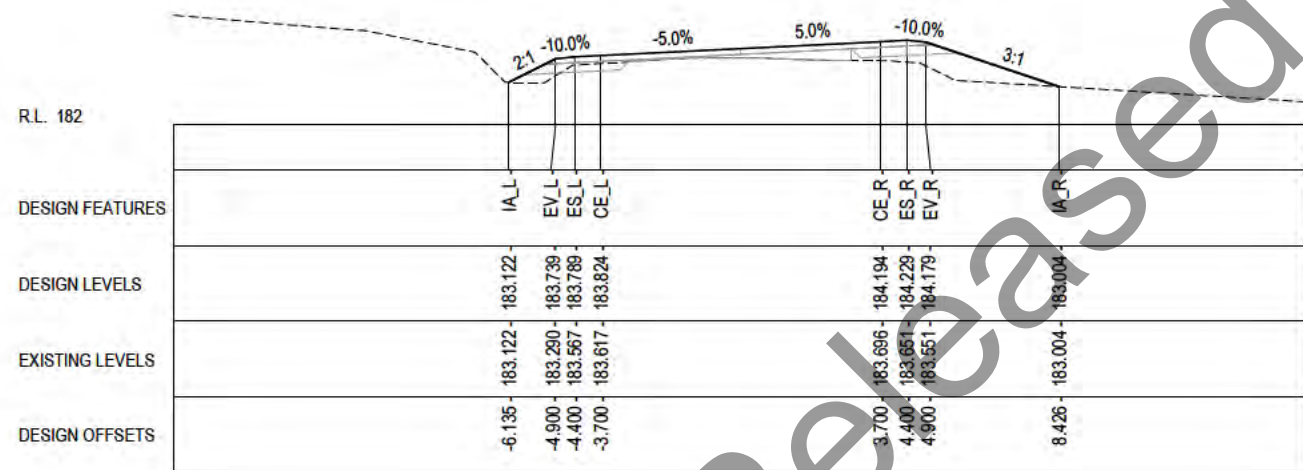




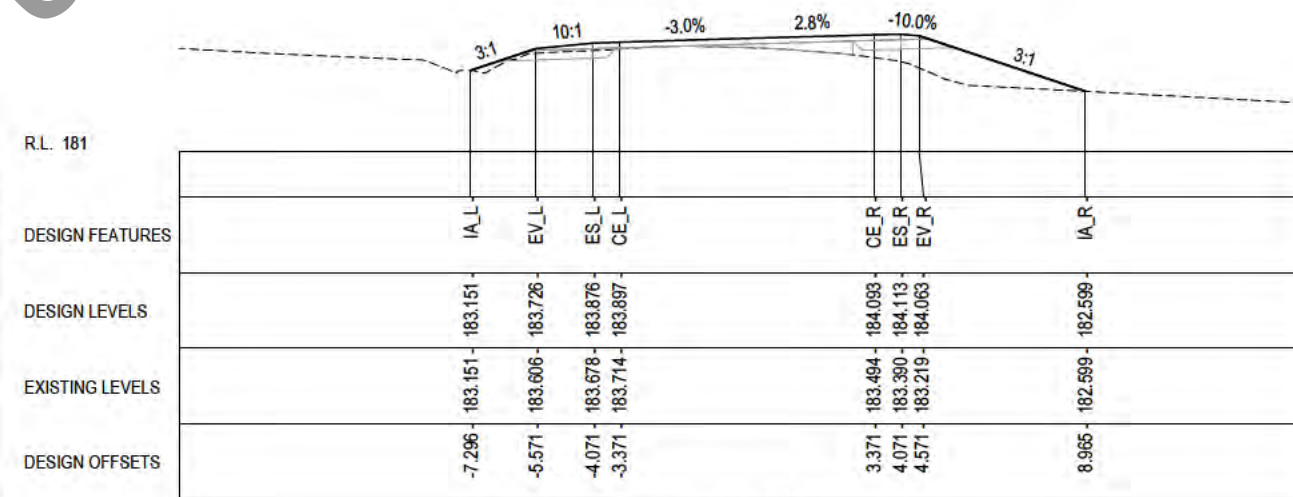
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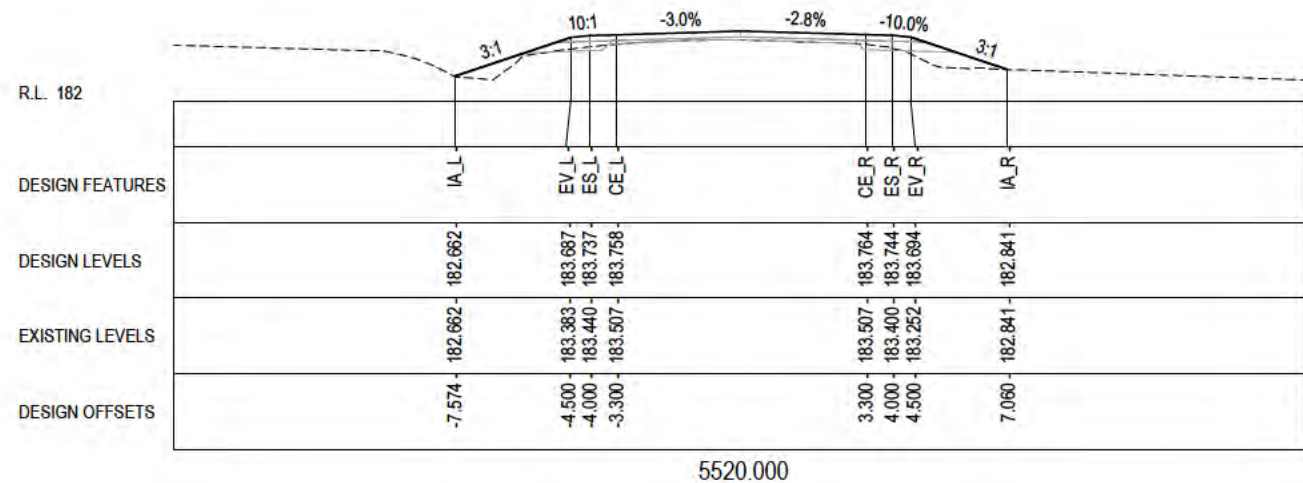


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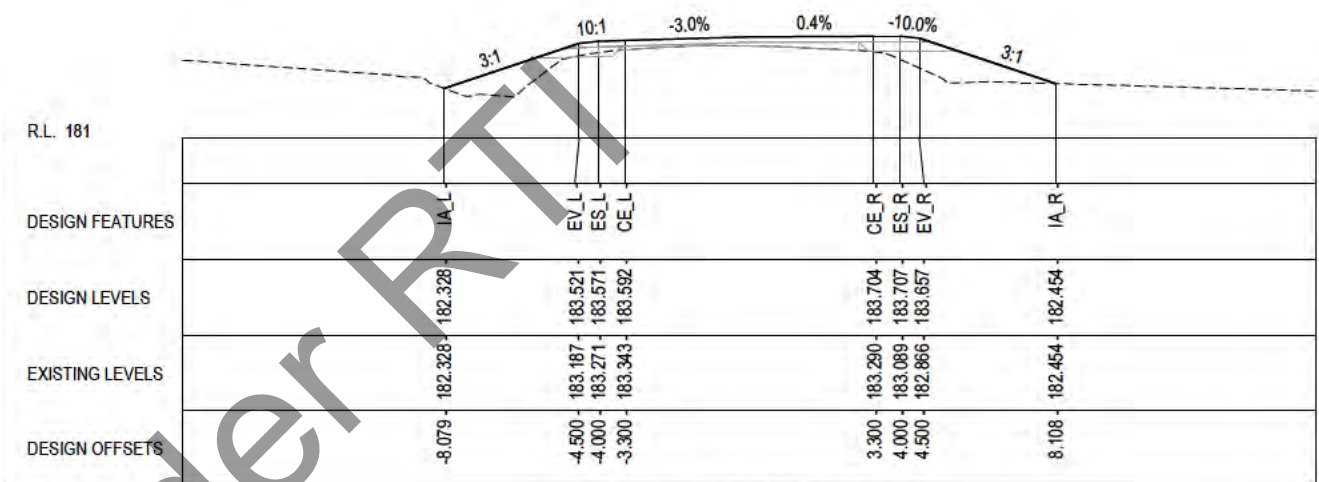


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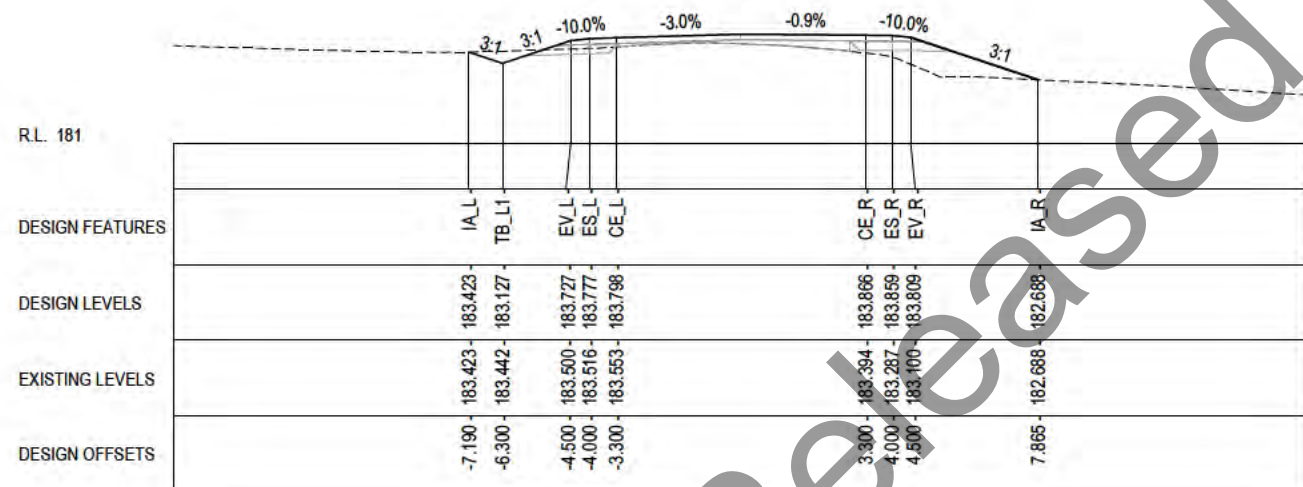
				SCALES 1:200 SCALE IN METRES - 1:200		pitt&sherry DESIGNED REVIEWED		Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2) CROSS SECTIONS (DESIGN LINE CL94) - DRG 62		CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2872	PRINTED DATE 28-Jul-23, 2:09 PM	SHEET No. 2872
A PRELIMINARY DESIGN No. Amendment Description		L.J.B. Initials		28/07/2023 Date						REGISTRATION NUMBER A1701.002		REVISION A	
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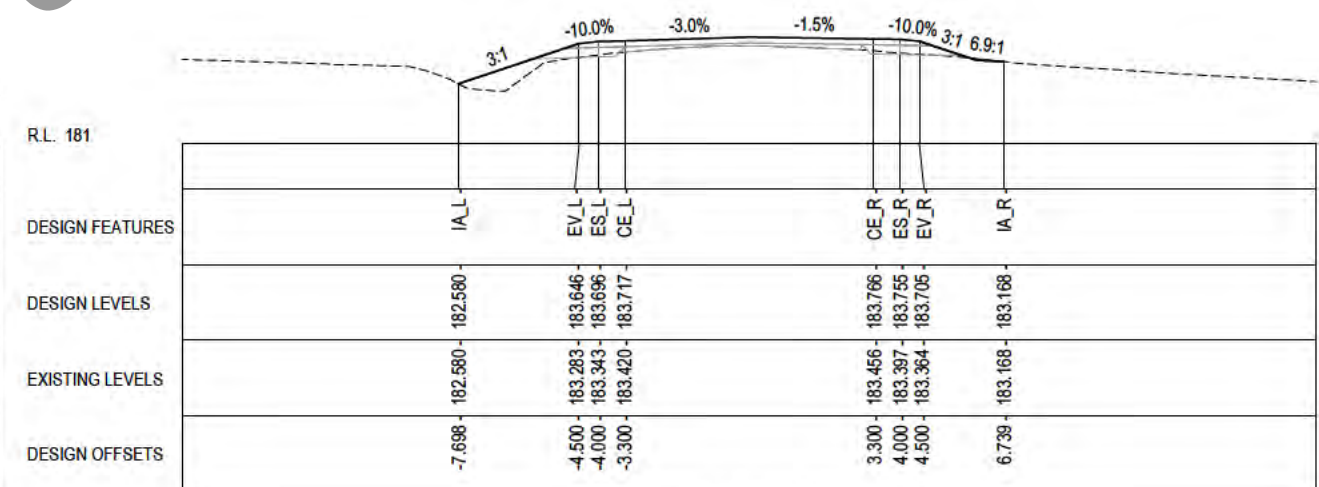
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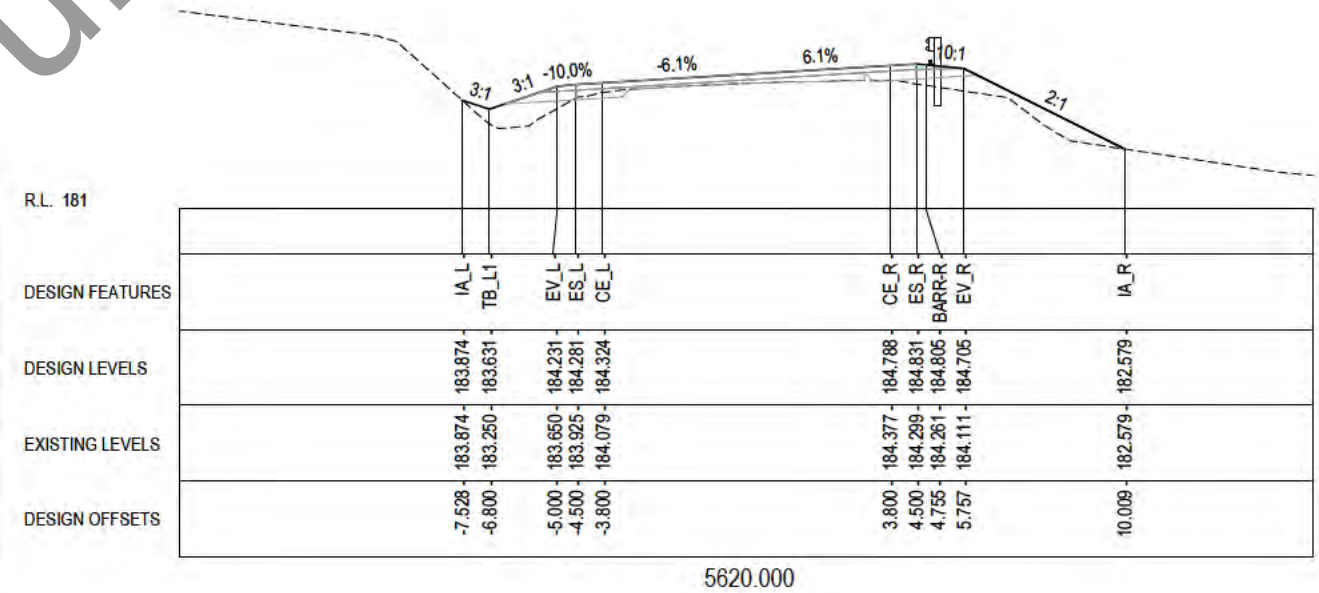
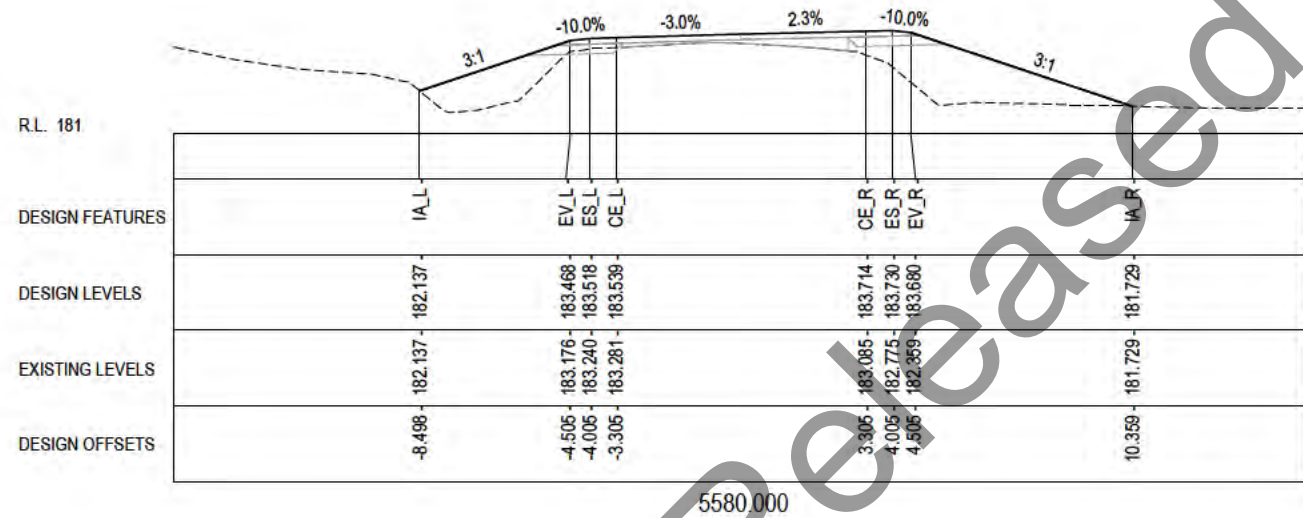
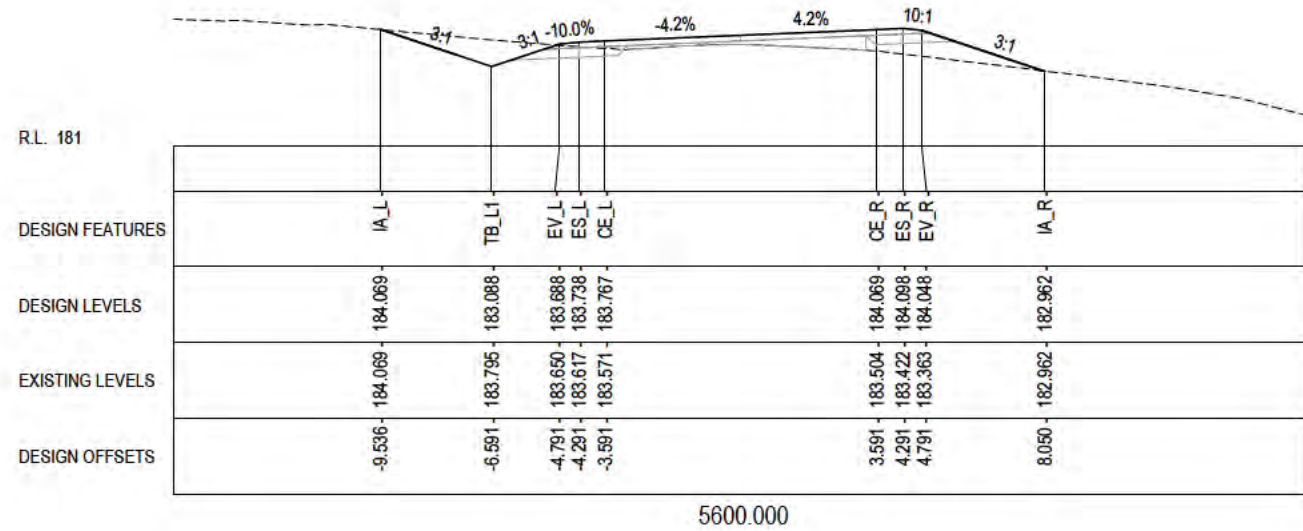


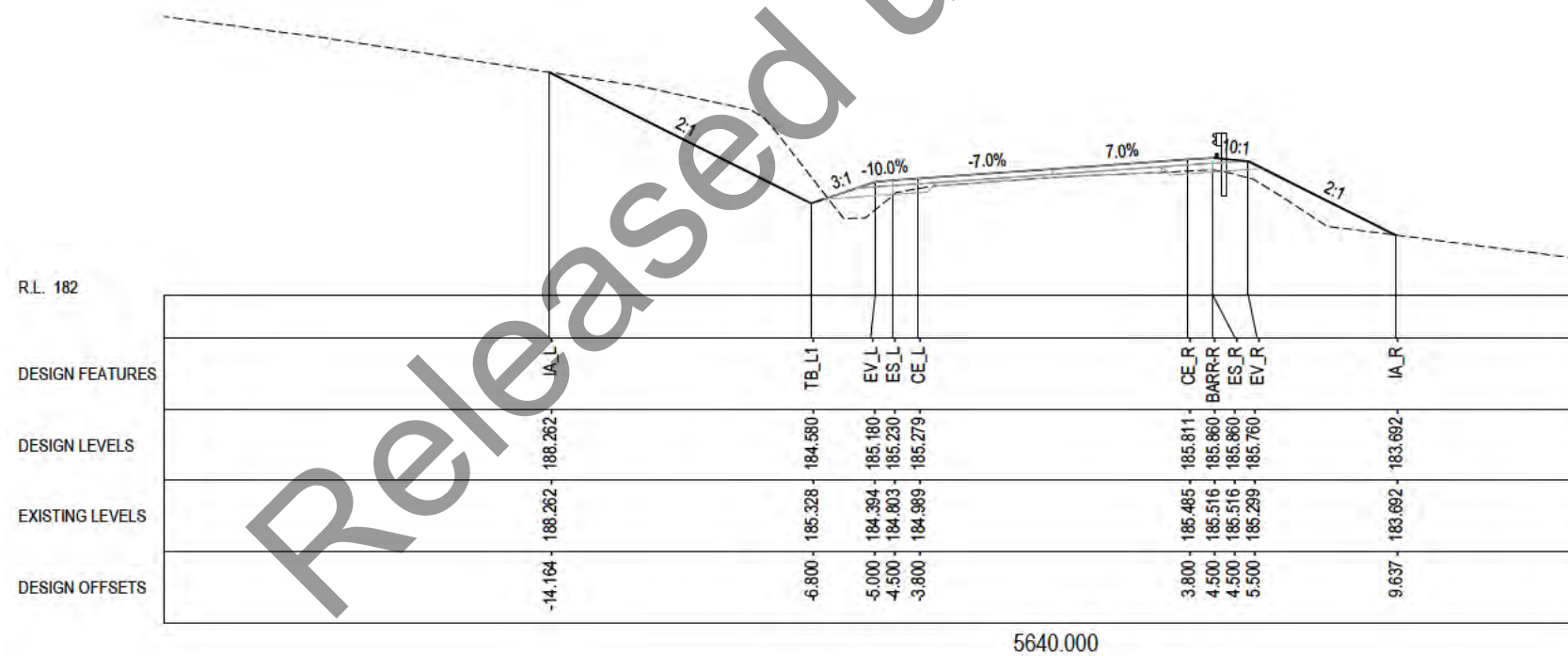
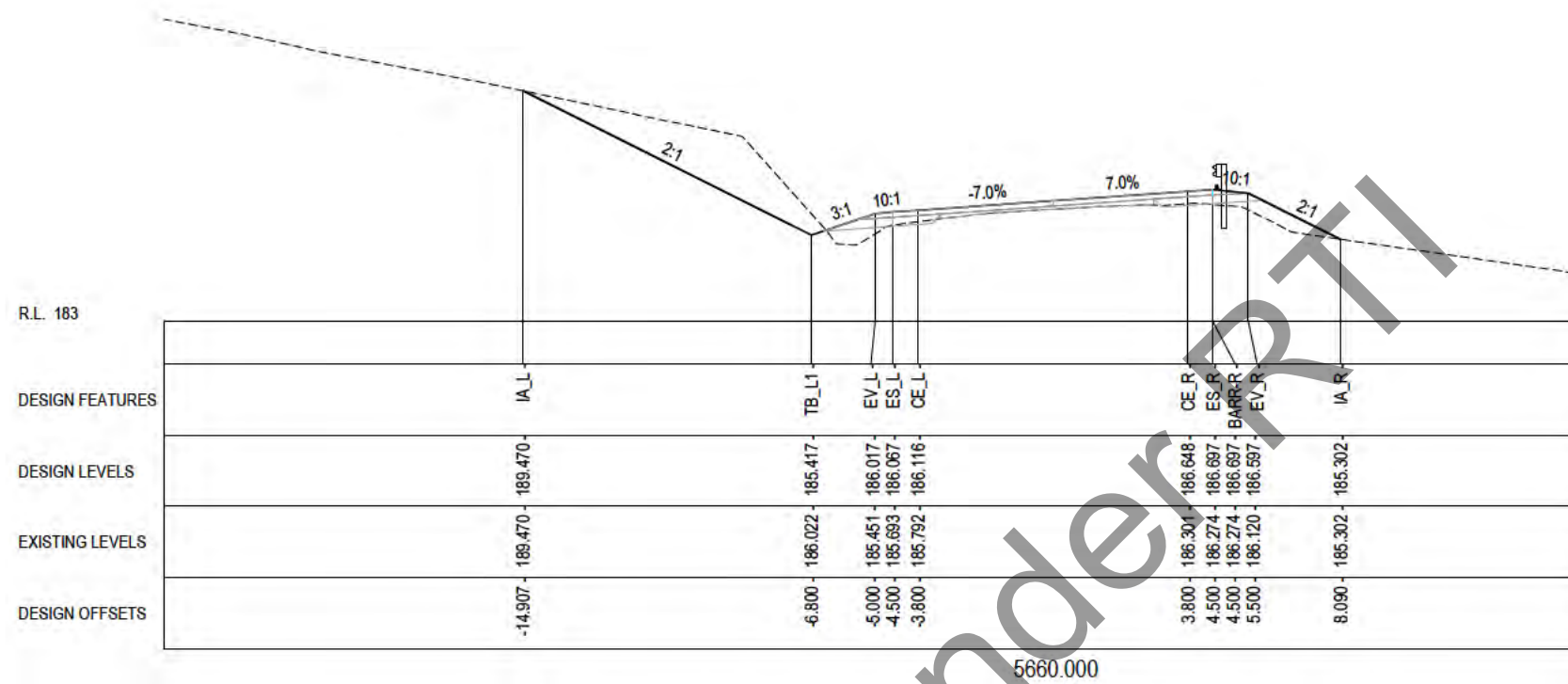
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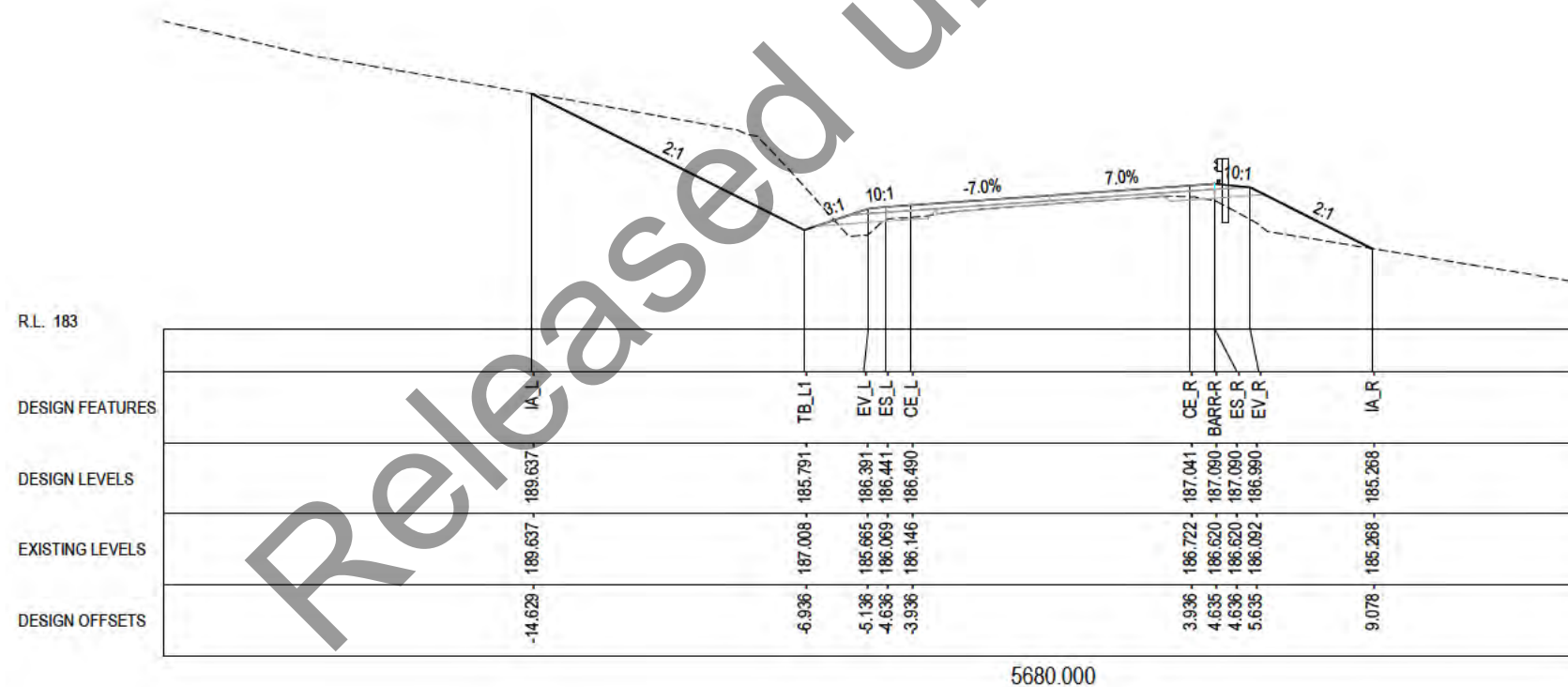
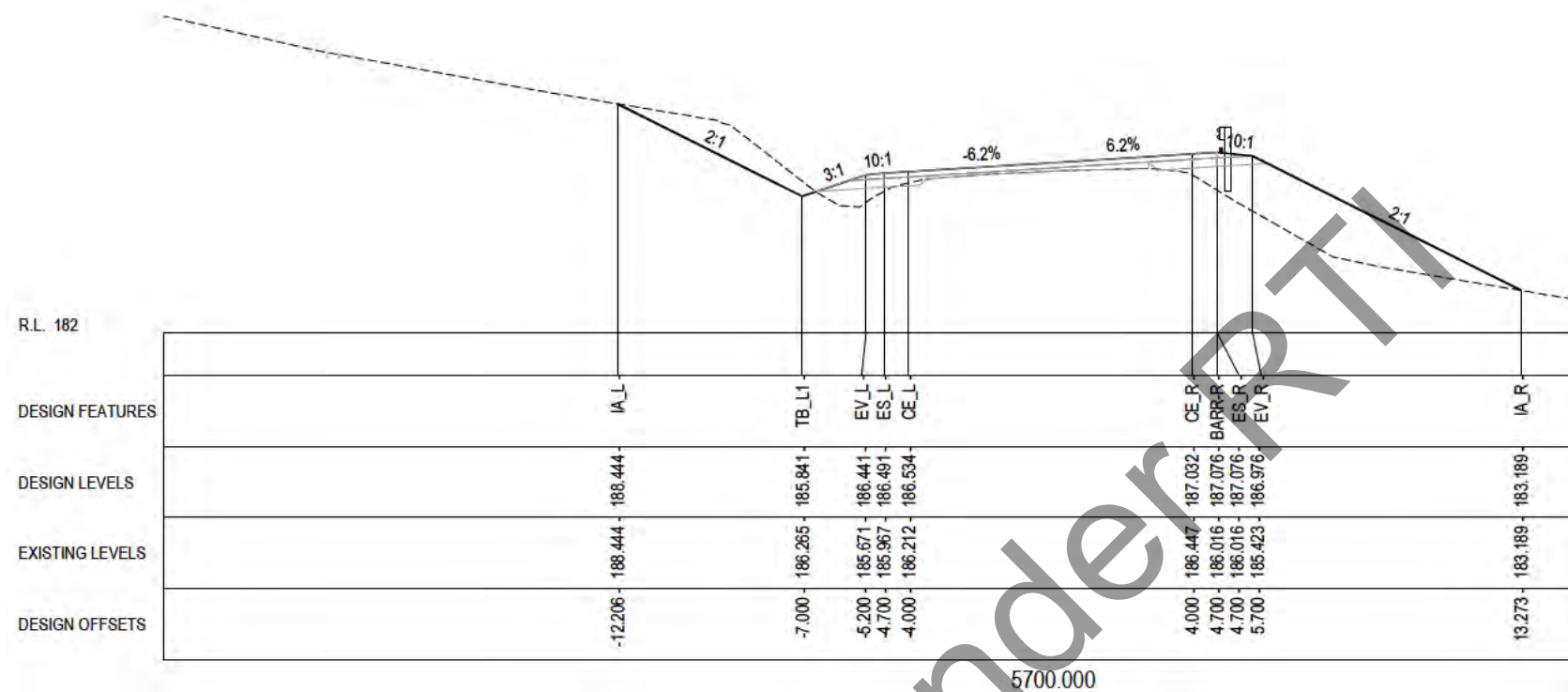


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				SCALES 1:200 SCALE IN METRES - 1:200		pitt&sherry DESIGNED REVIEWED		Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2) CROSS SECTIONS (DESIGN LINE CL94) - DRG 63		CONTRACT No. 3521	DRAWING S-P 20.2000-00-CIV-DRG-2873	PRINTED DATE 28-Jul-23, 2:09 PM	SHEET No. 2873
A PRELIMINARY DESIGN No. Amendment Description		L.J.B. Initials		28/07/2023 Date						REGISTRATION NUMBER A1701.002		REVISION A	
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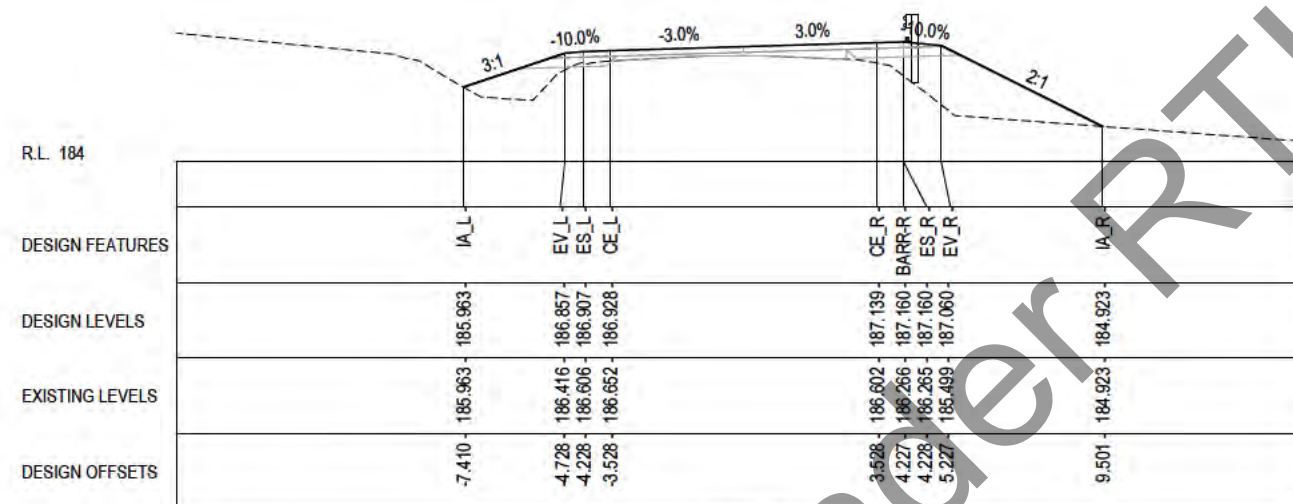




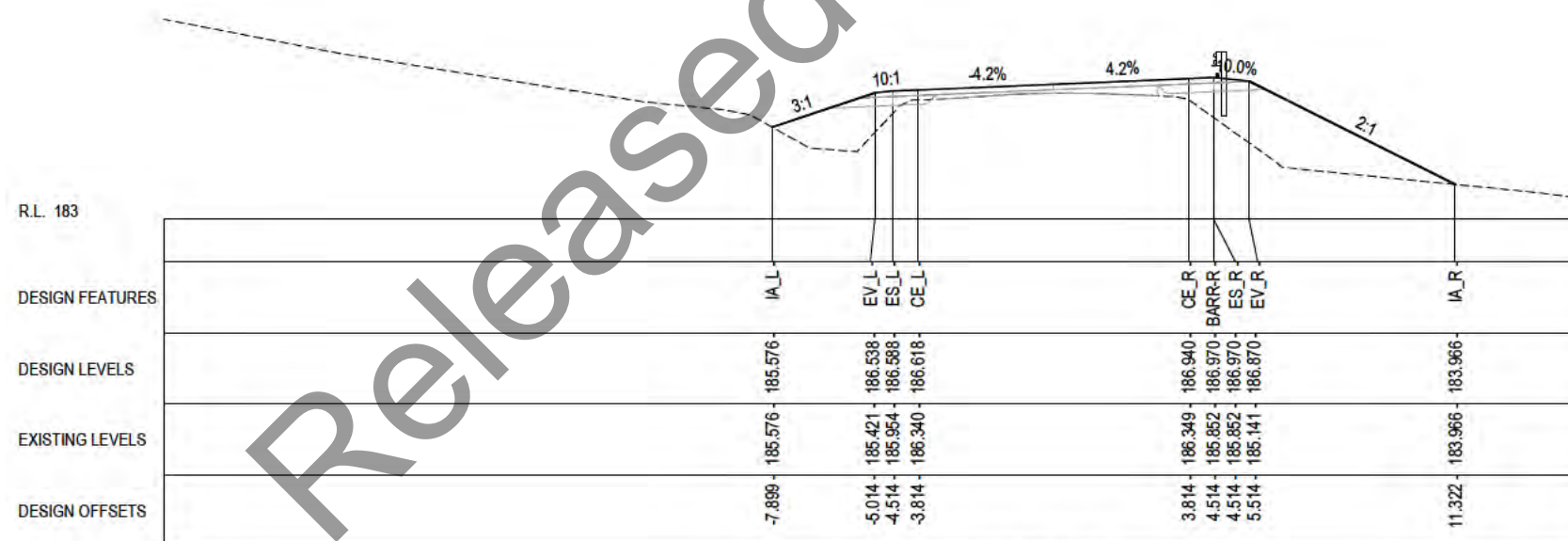


				SCALES 1:200 SCALE IN METRES - 1:200				Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2876	PRINTED DATE 28-Jul-23, 2:09 PM	SHEET No. 2876
A PRELIMINARY DESIGN L.J.B. 28/07/2023		No. Amendment Description Initials Date		Co-ordinate System: MGA-Z55 GDA20 Height Datum: A.H.D.		DESIGNED REVIEWED		CROSS SECTIONS (DESIGN LINE CL94) - DRG 66		REGISTRATION NUMBER A1701.002		REVISION A	

A3 original This sheet may be prepared using colour and may be incomplete if copied

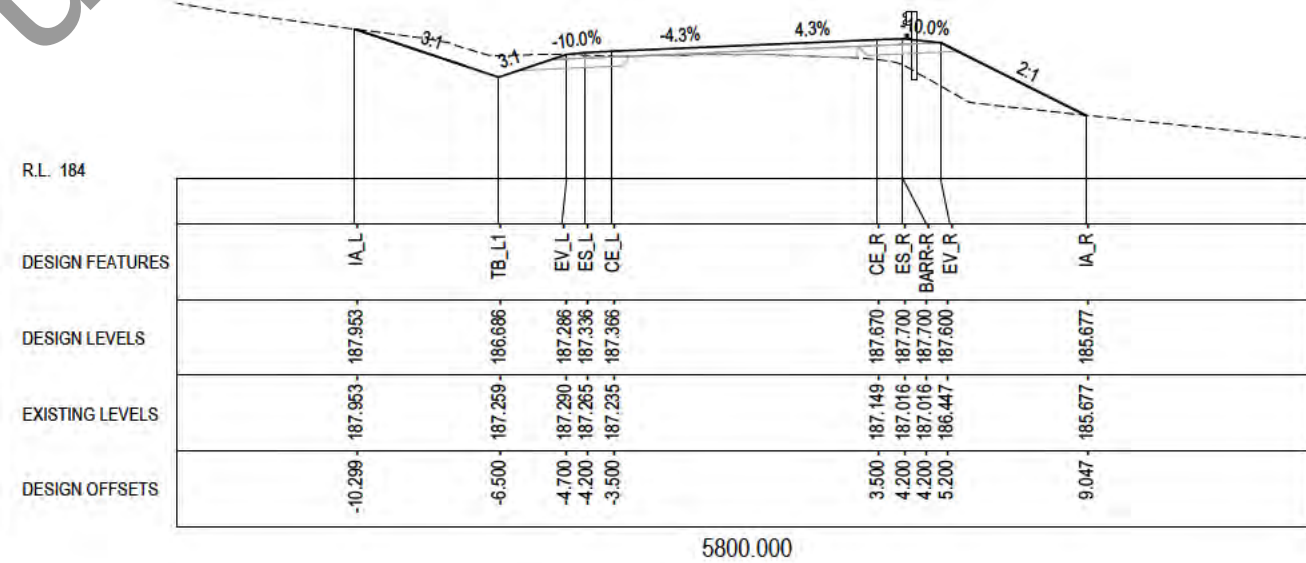
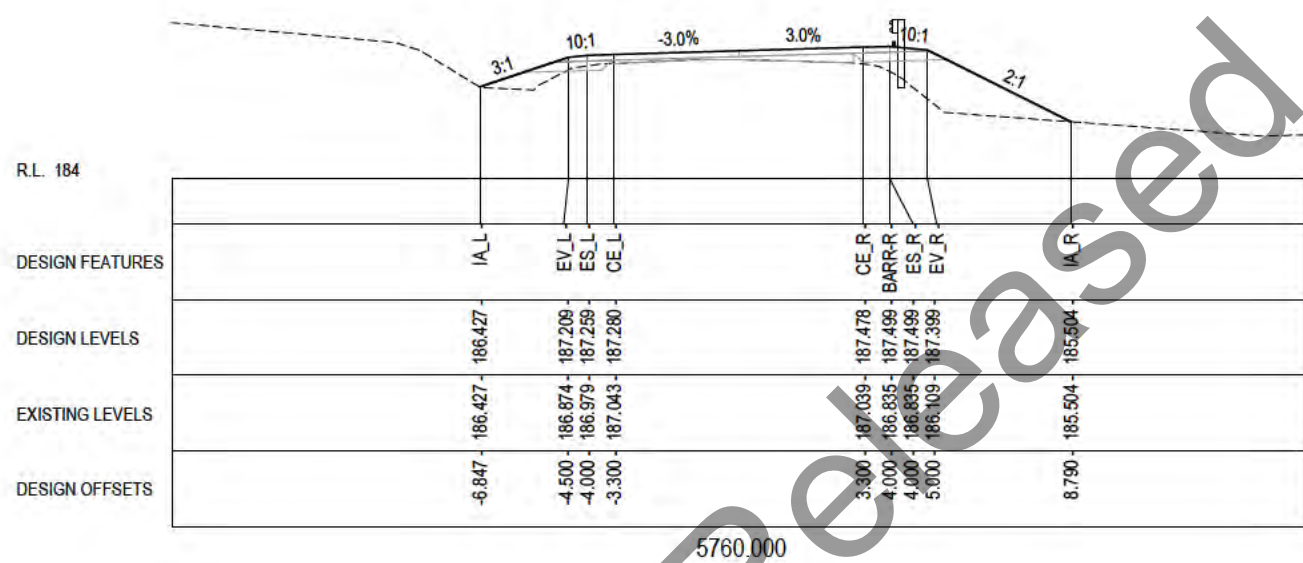
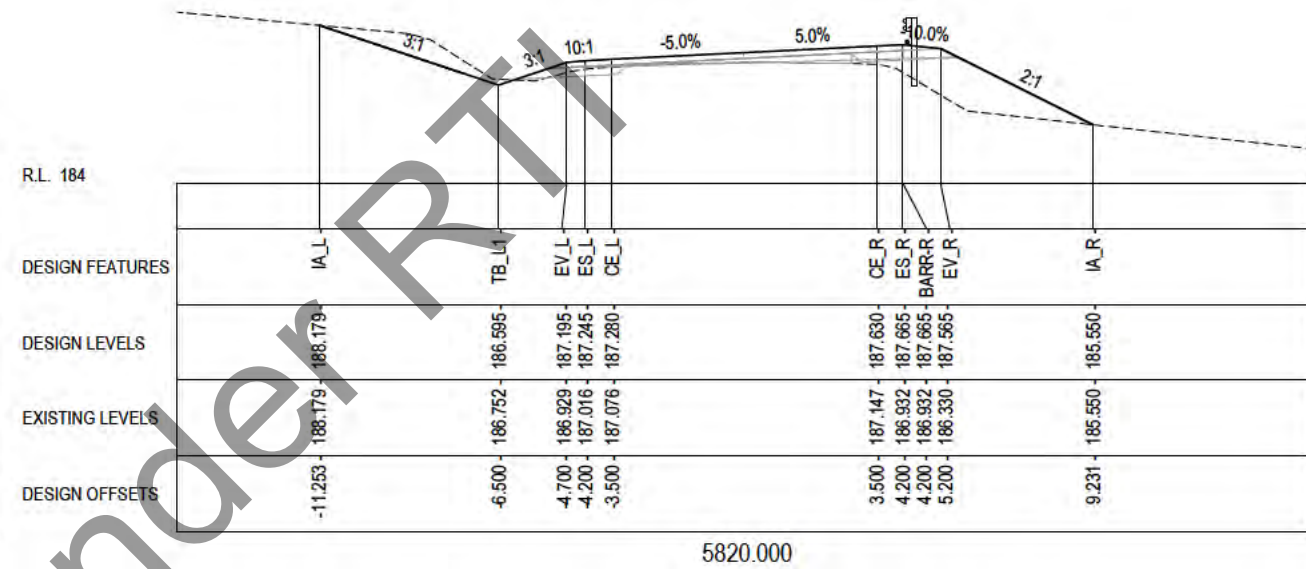
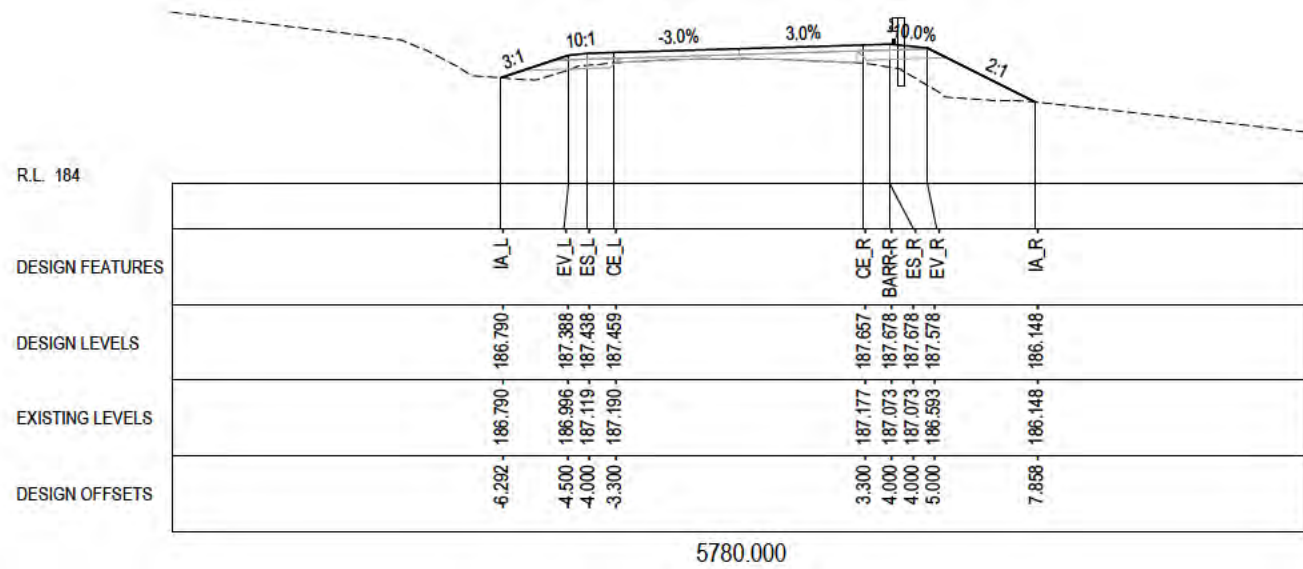


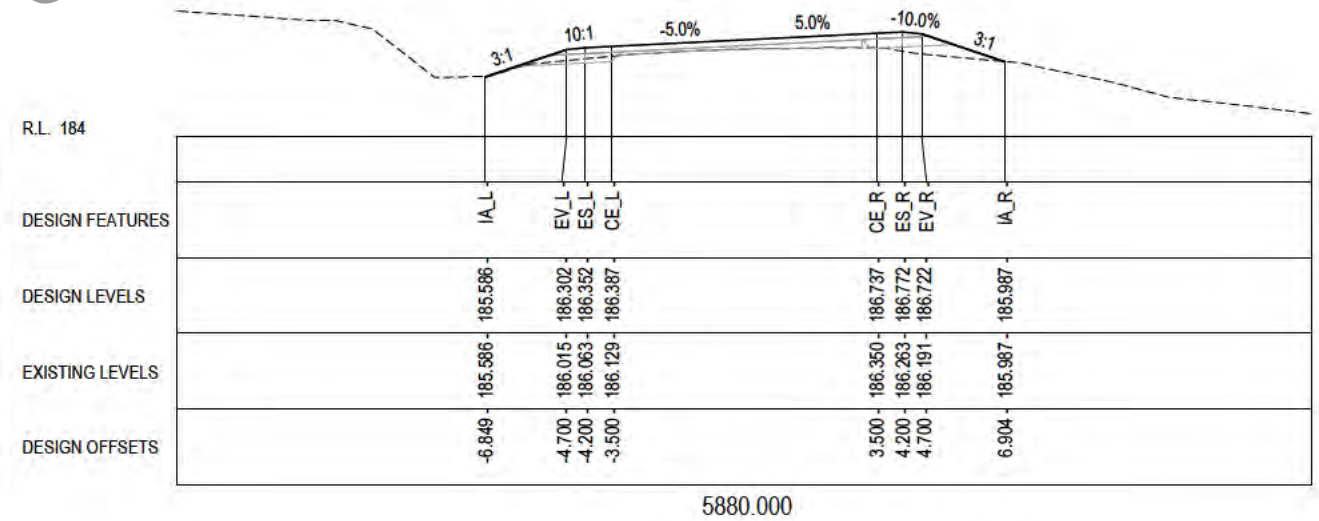
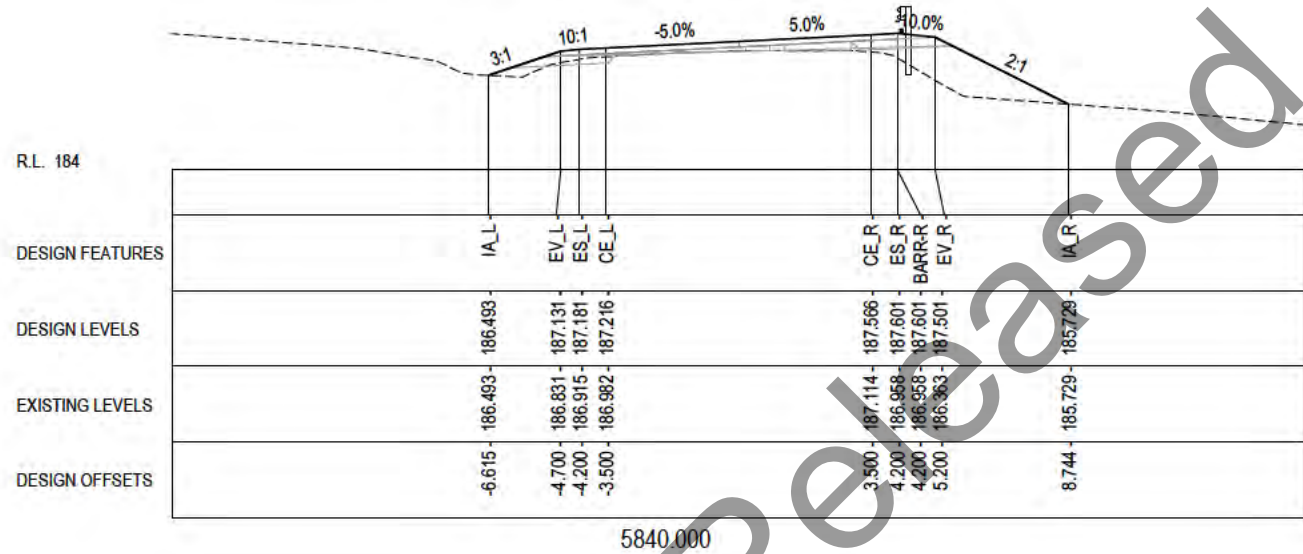
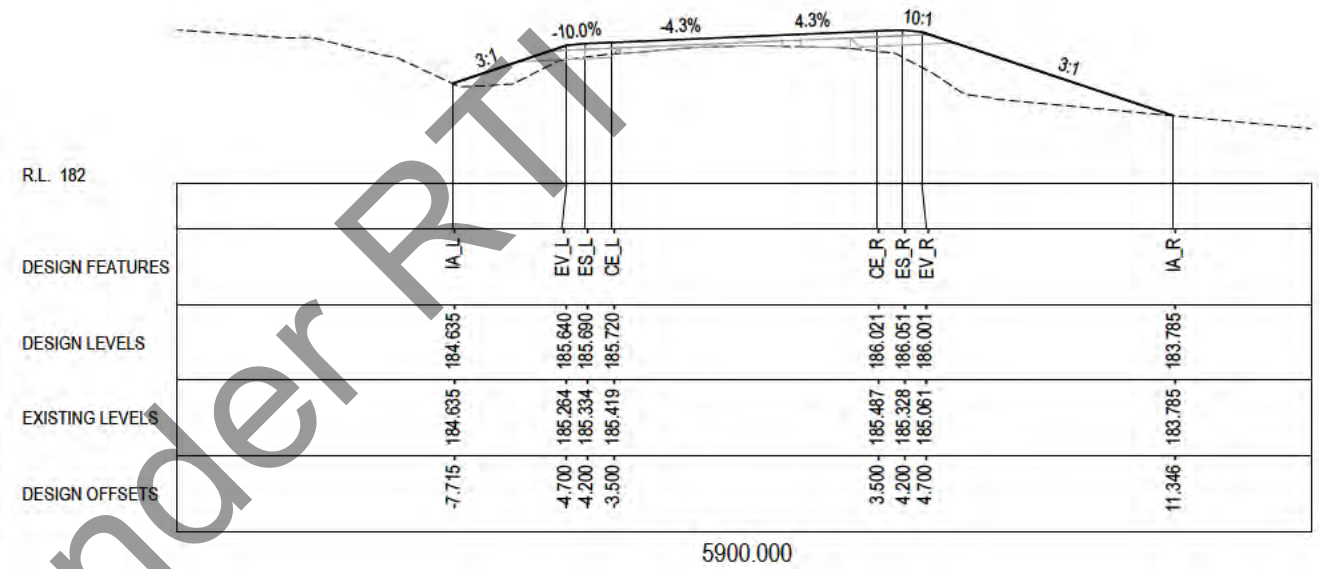
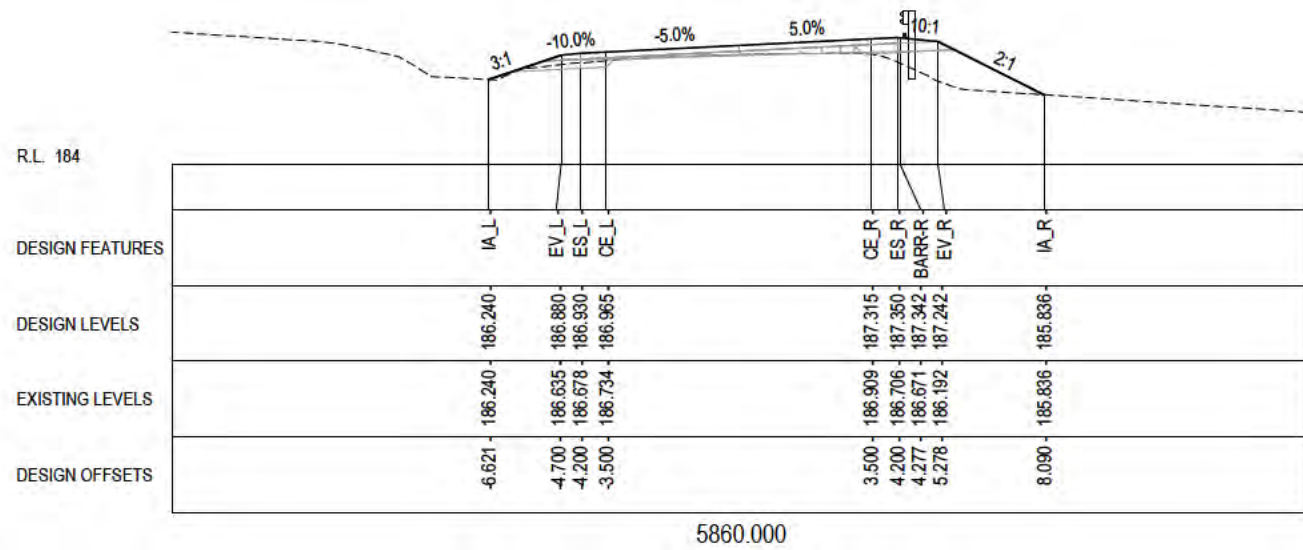
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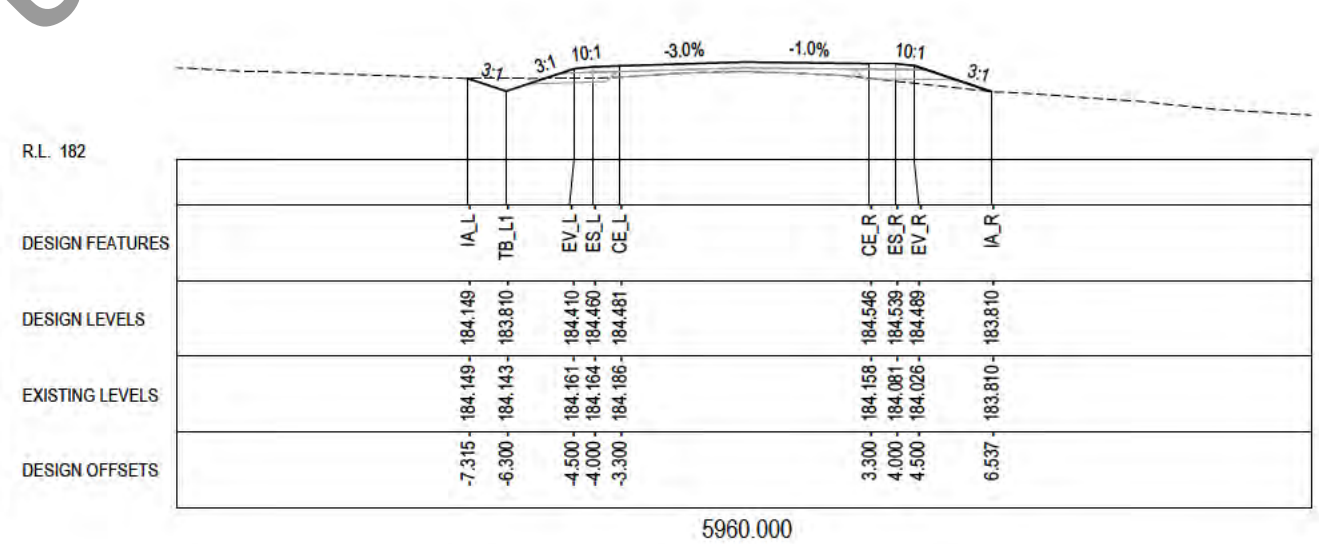
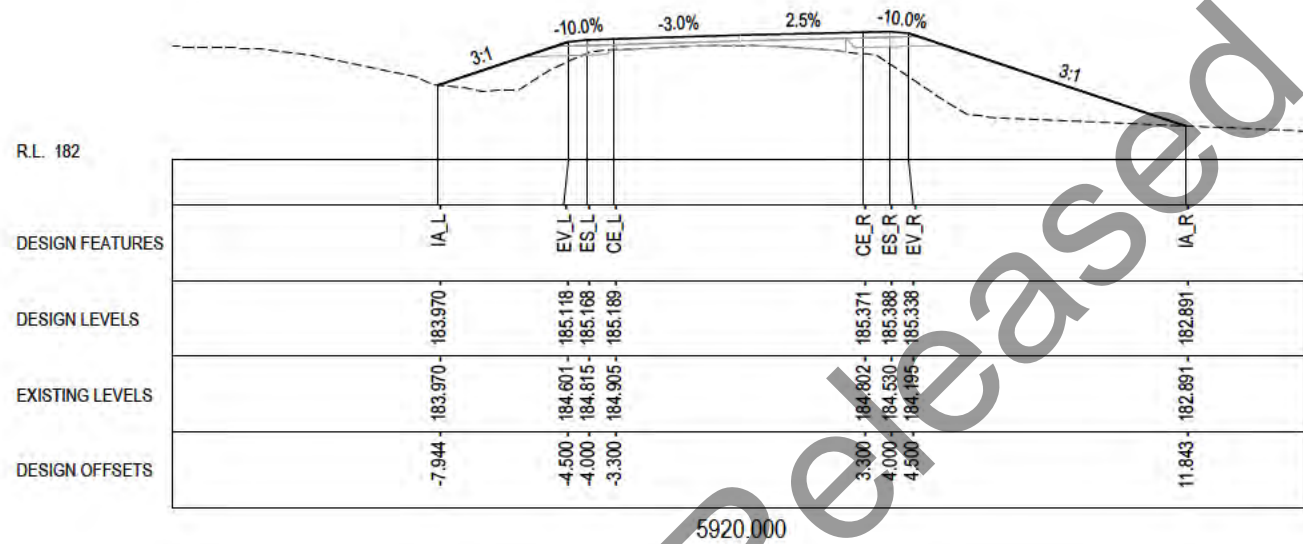
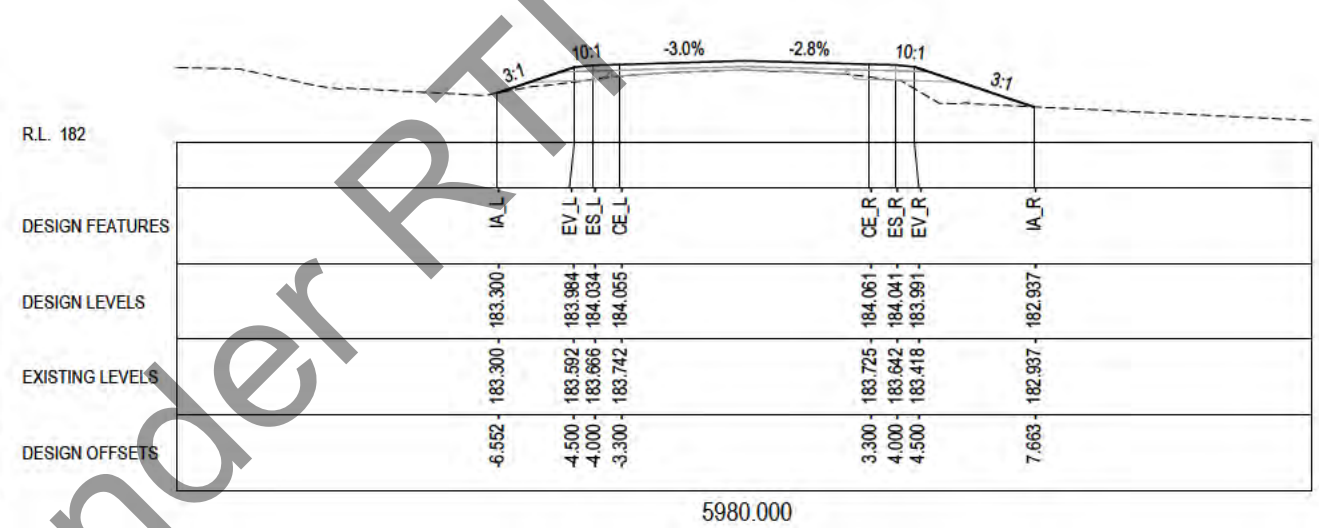
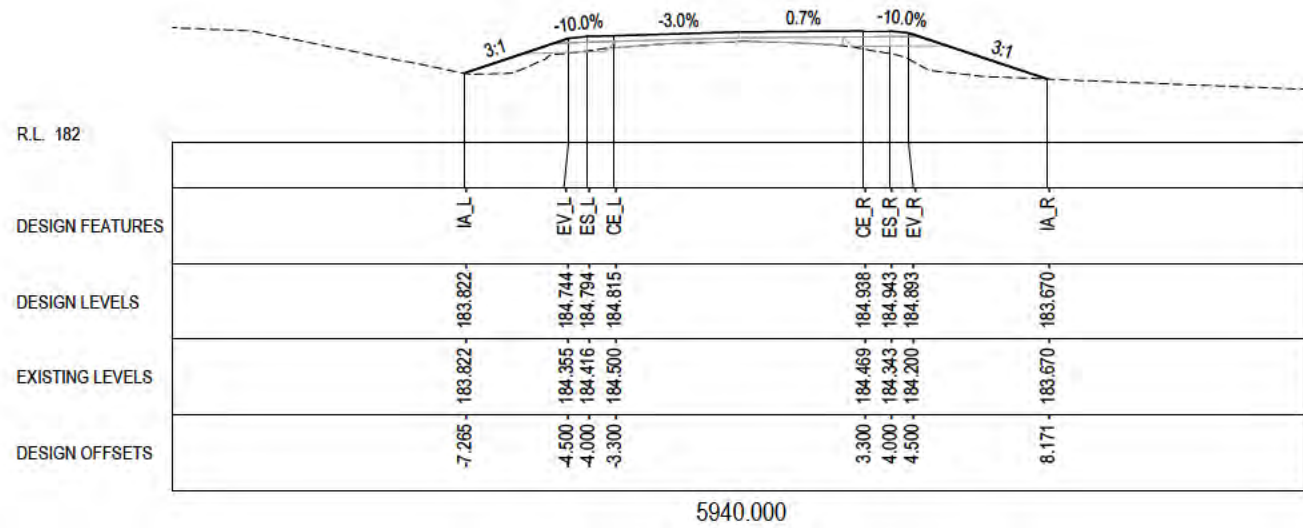


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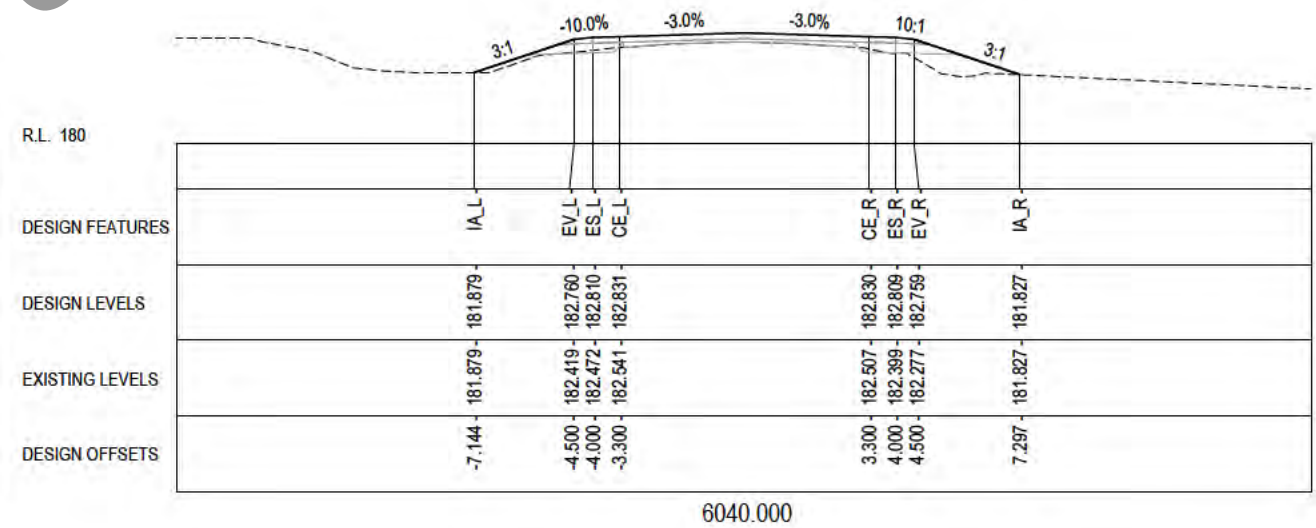
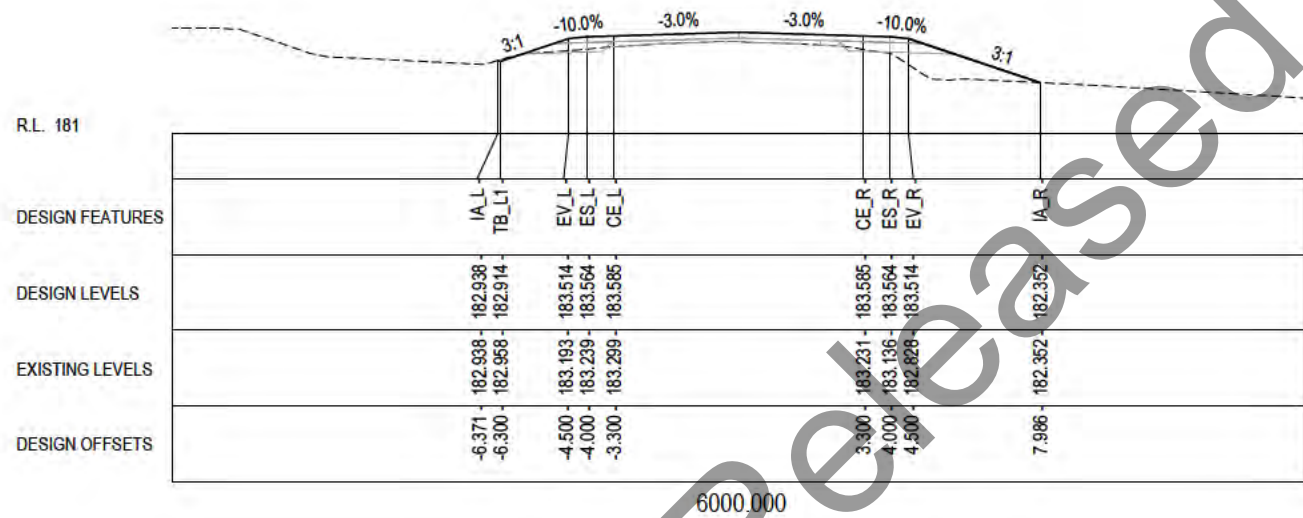
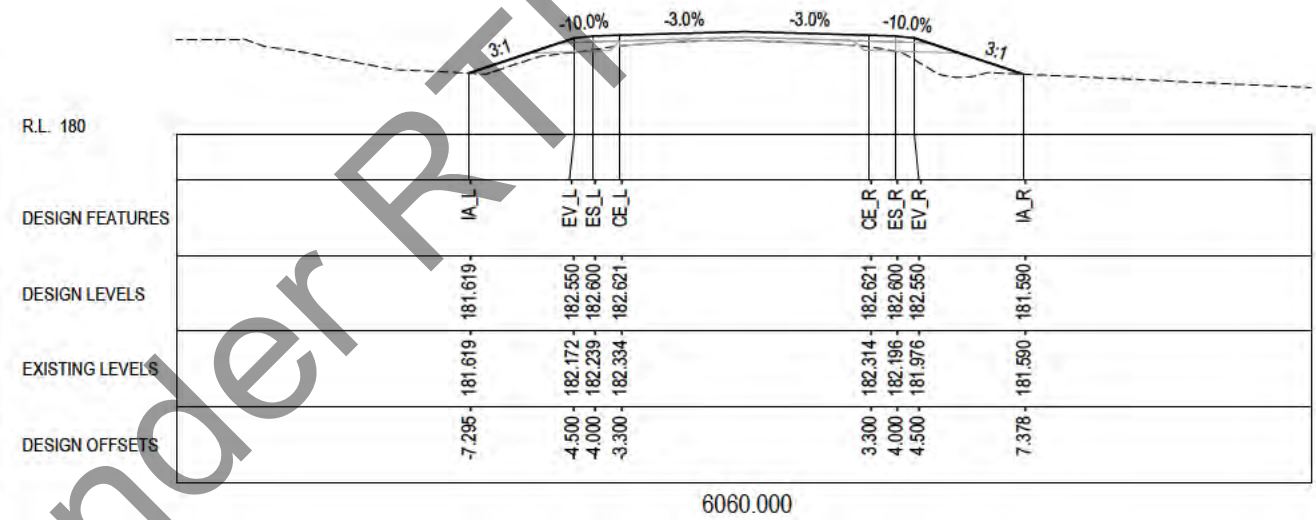
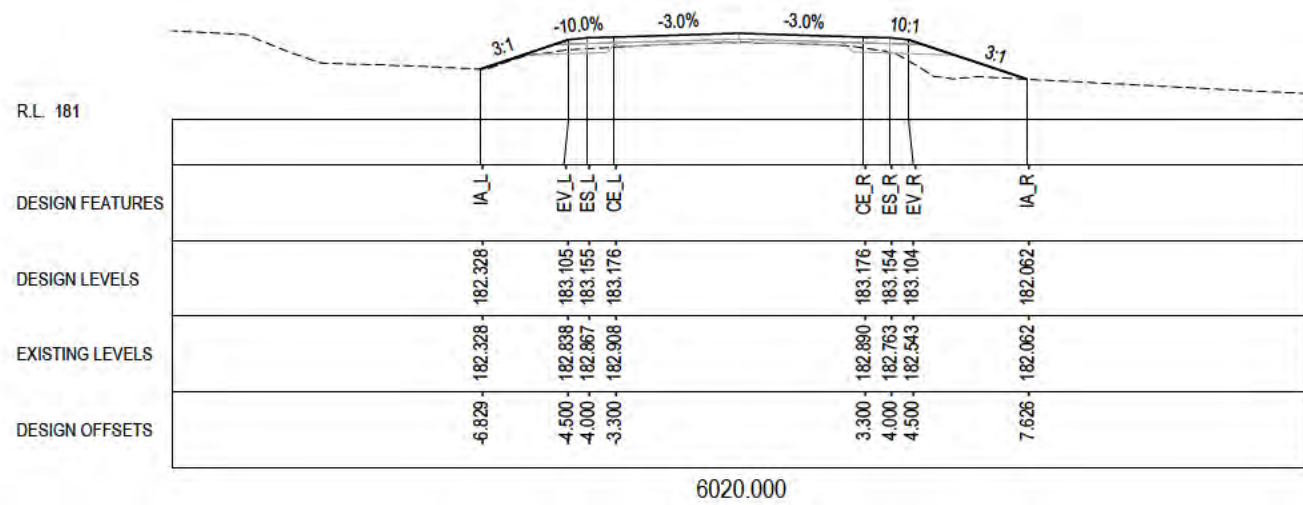
				SCALES 1:200 SCALE IN METRES - 1:200				Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2877	PRINTED DATE 28-Jul-23, 2:09 PM	SHEET No. 2877
A PRELIMINARY DESIGN L.J.B. 28/07/2023		No. Amendment Description Initials Date		Co-ordinate System: MGA-Z55 GDA20 Height Datum: A.H.D.		DESIGNED REVIEWED		CROSS SECTIONS (DESIGN LINE CL94) - DRG 67		REGISTRATION NUMBER A1701.002		REVISION A	

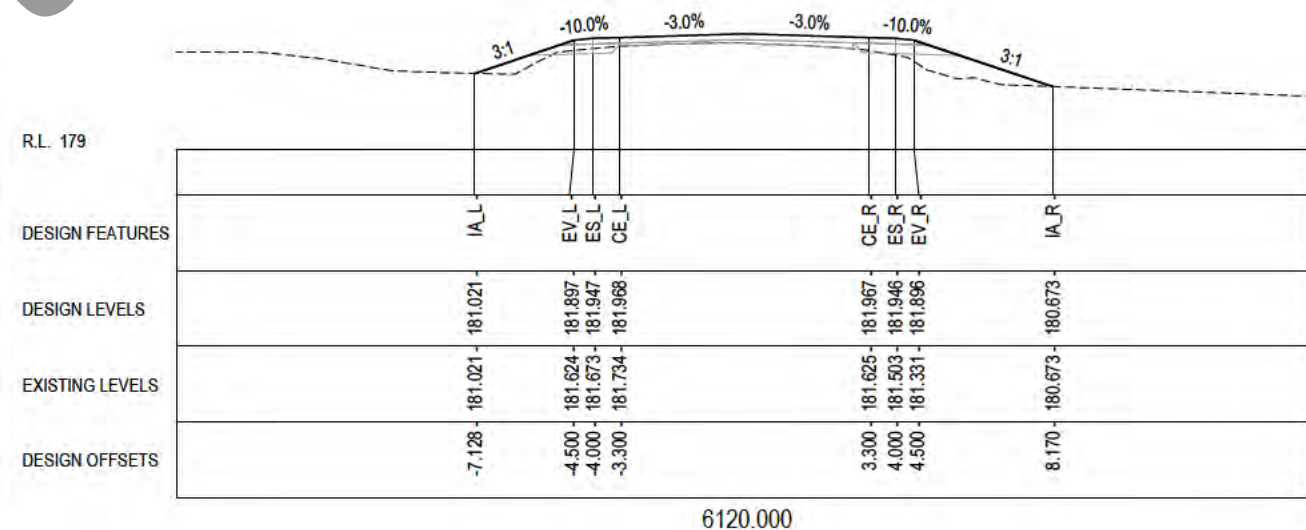
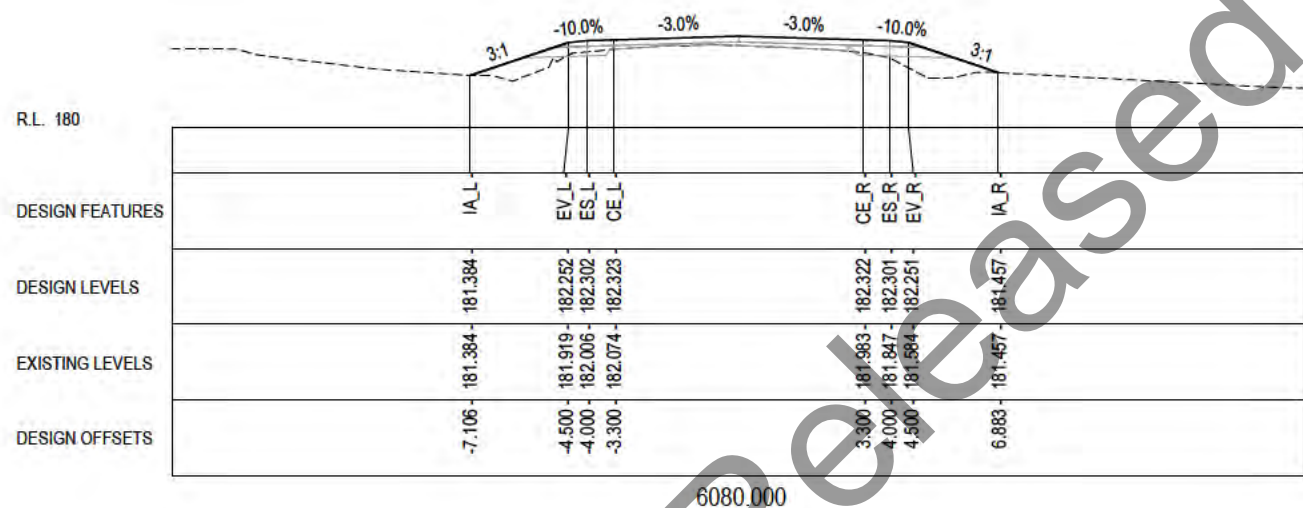
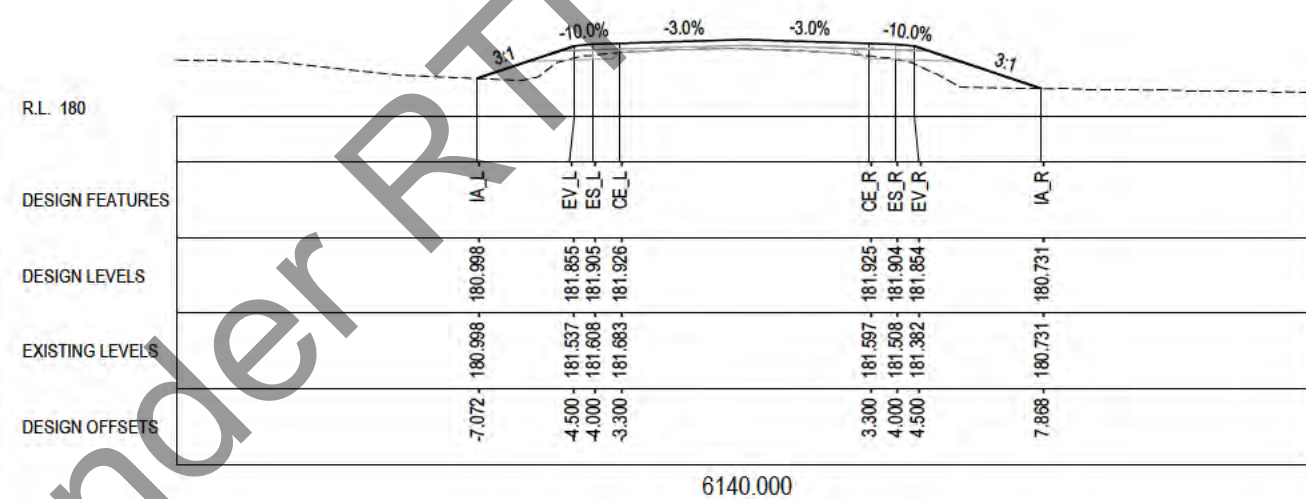
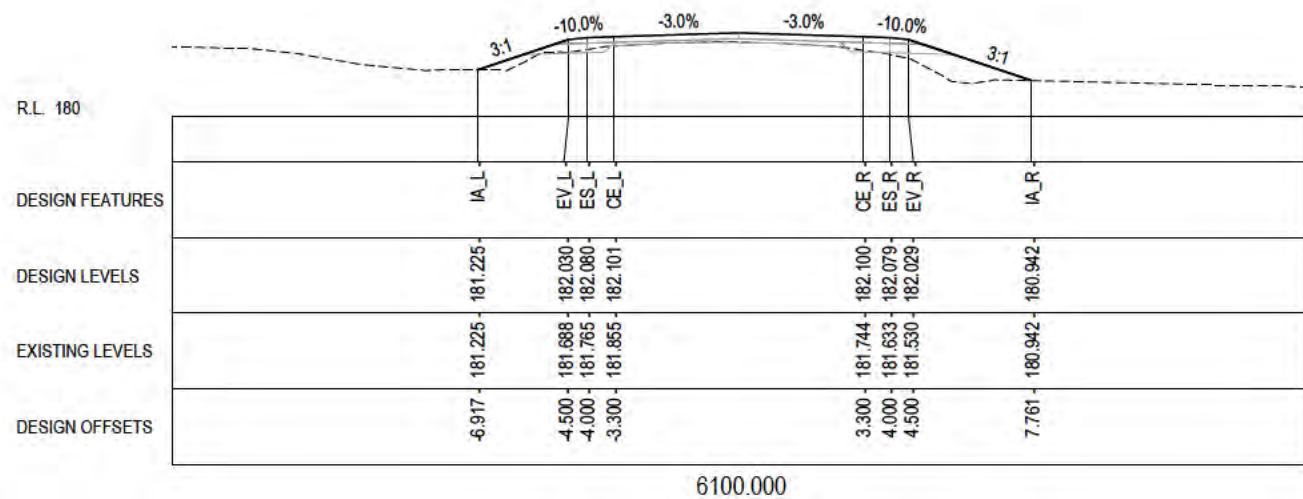




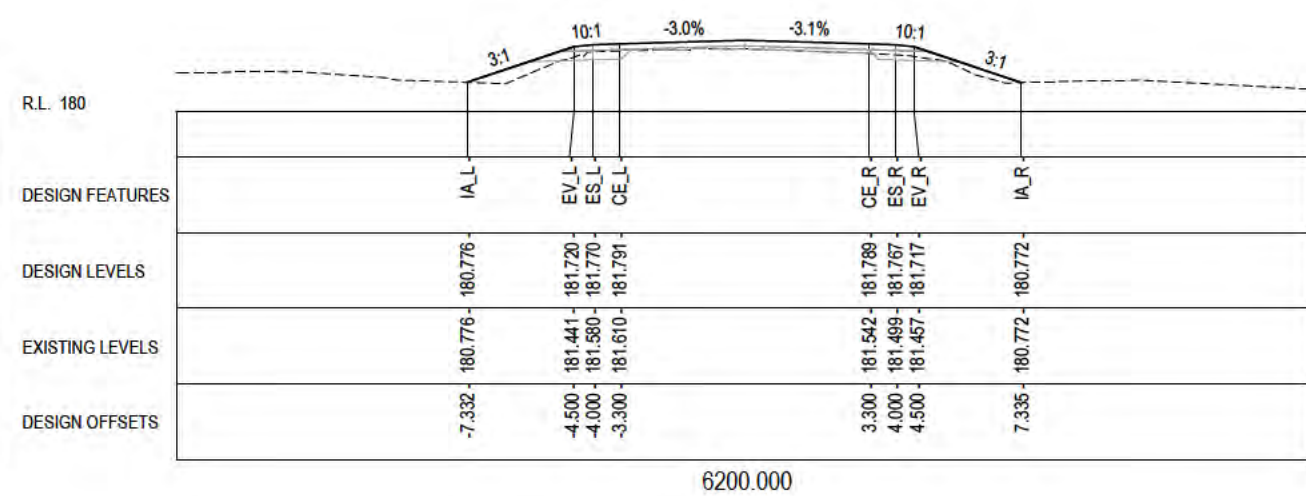
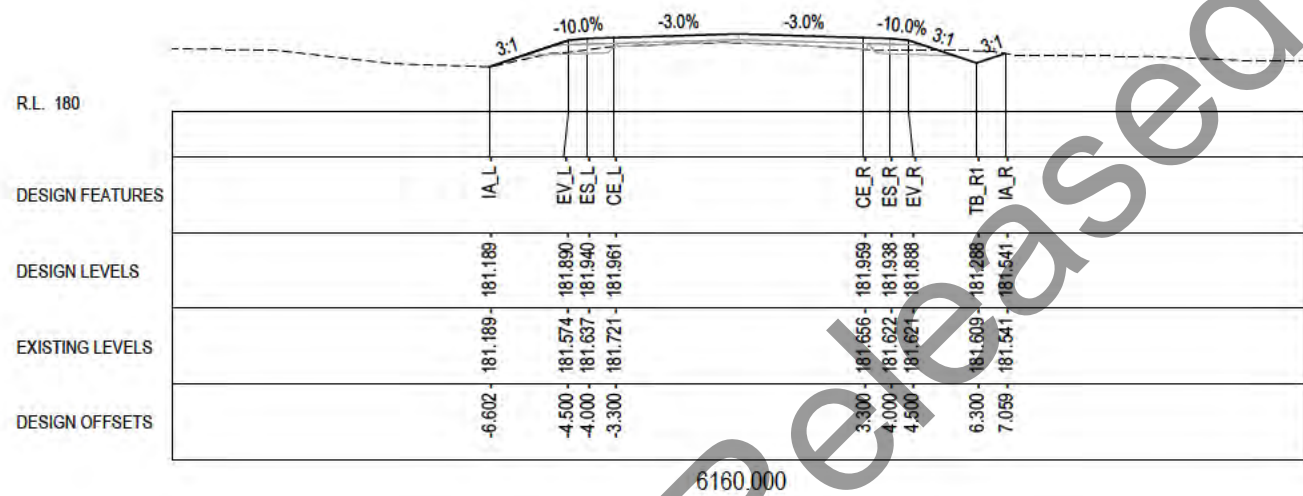
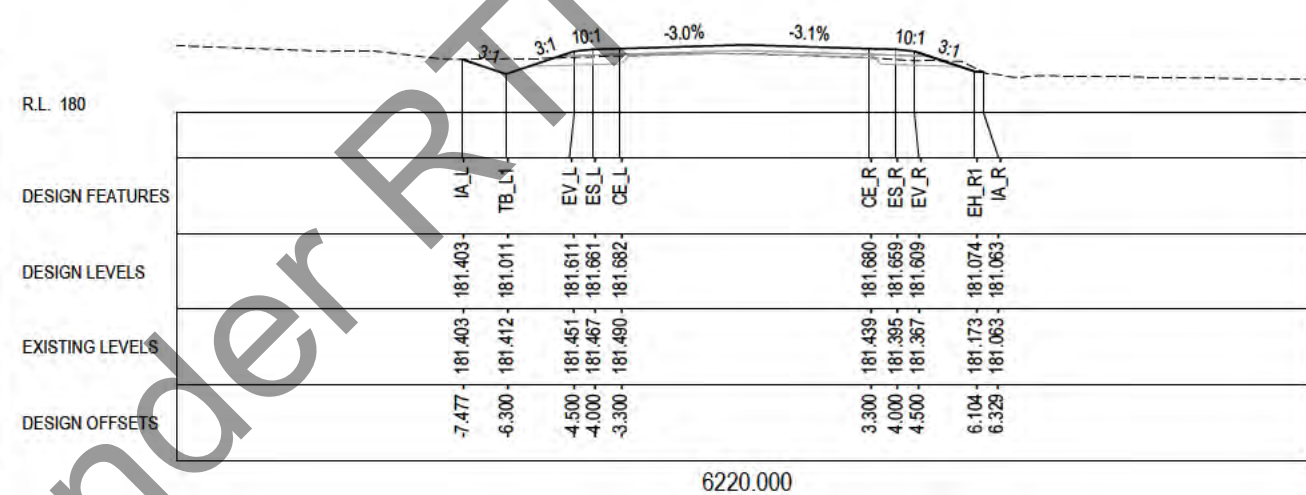
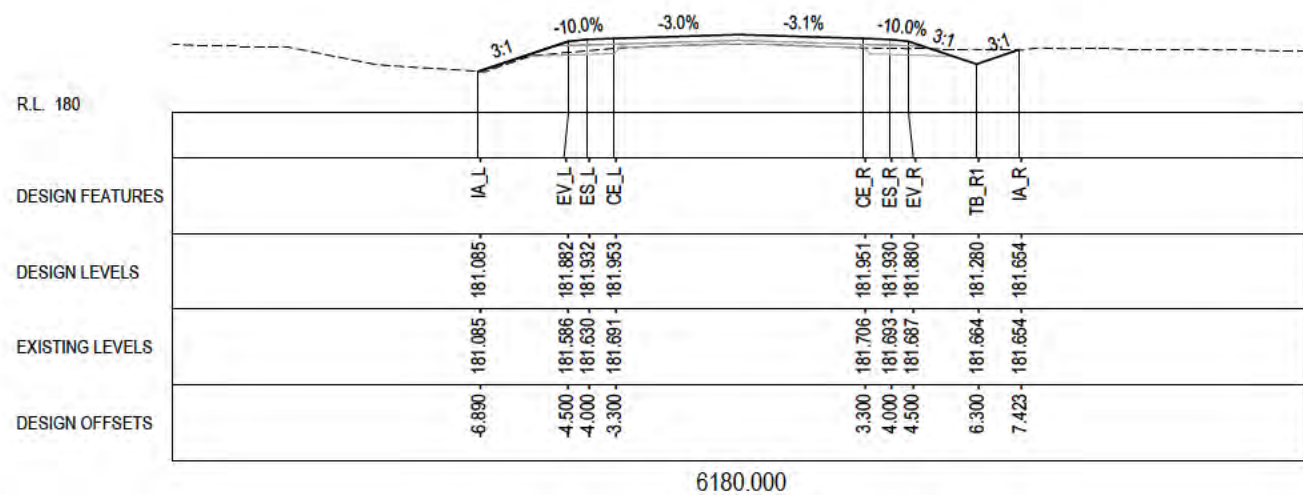


				SCALES 1:200 2 0 2 4 6 8 SCALE IN METRES - 1:200				Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2880	PRINTED DATE 28-Jul-23, 2:10 PM	SHEET No. 2880
A PRELIMINARY DESIGN No. Amendment Description		L.J.B. Initials Date		Co-ordinate System: MGA-Z55 GDA20 Height Datum: A.H.D.		DESIGNED REVIEWED		CROSS SECTIONS (DESIGN LINE CL94) - DRG 70		REGISTRATION NUMBER A1701.002		REVISION A	



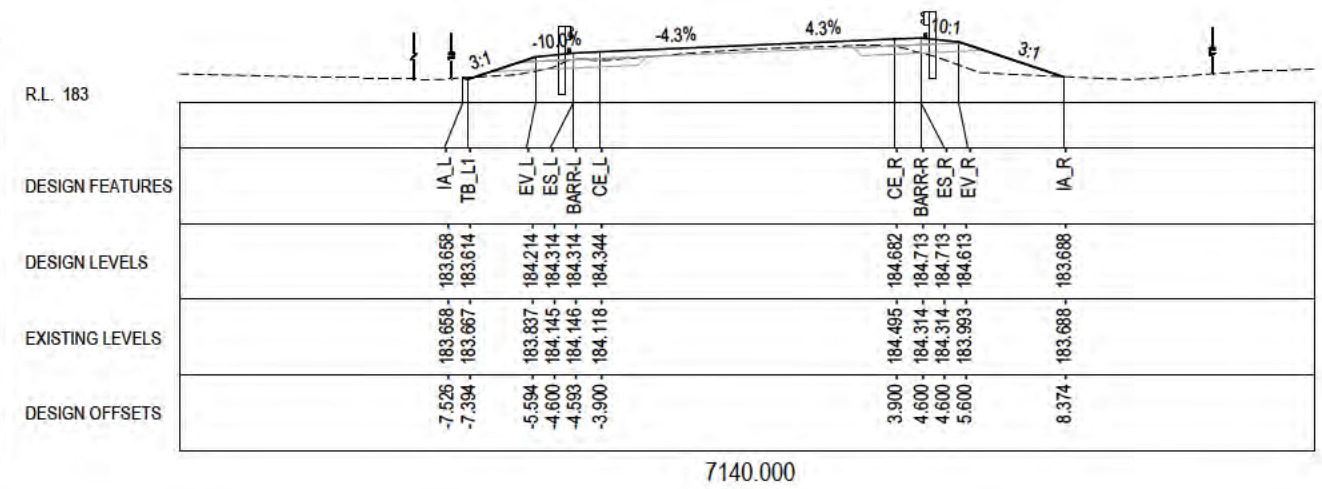
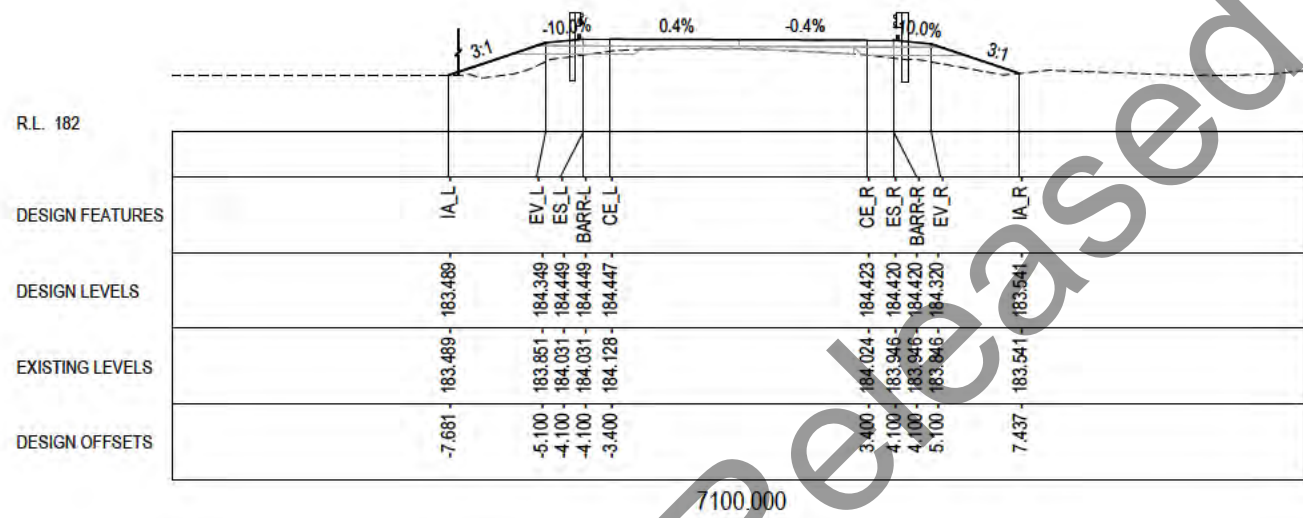
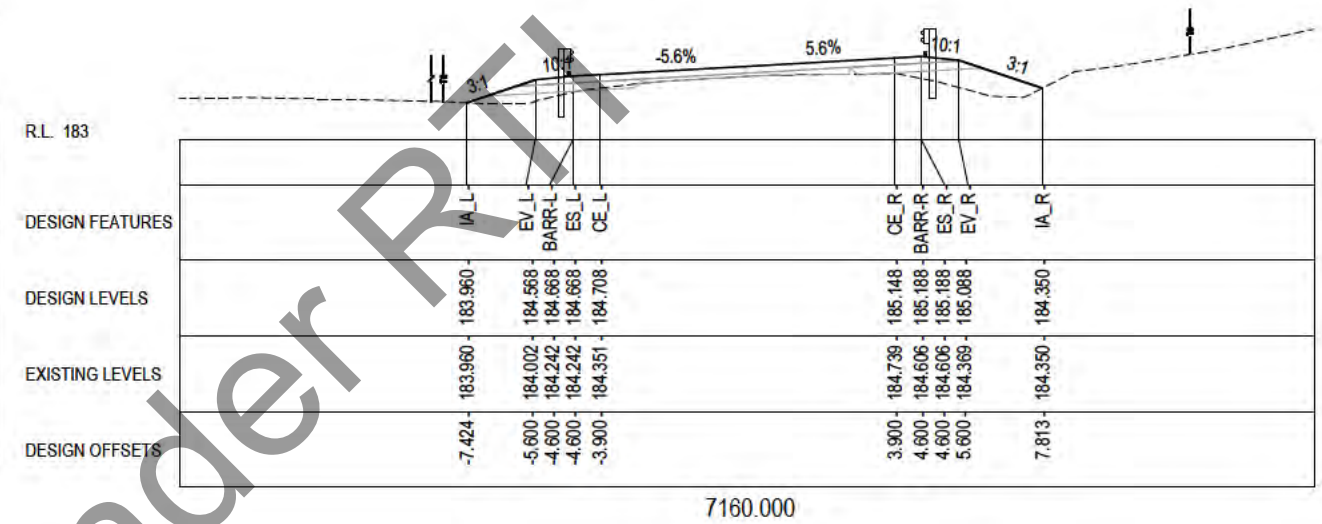
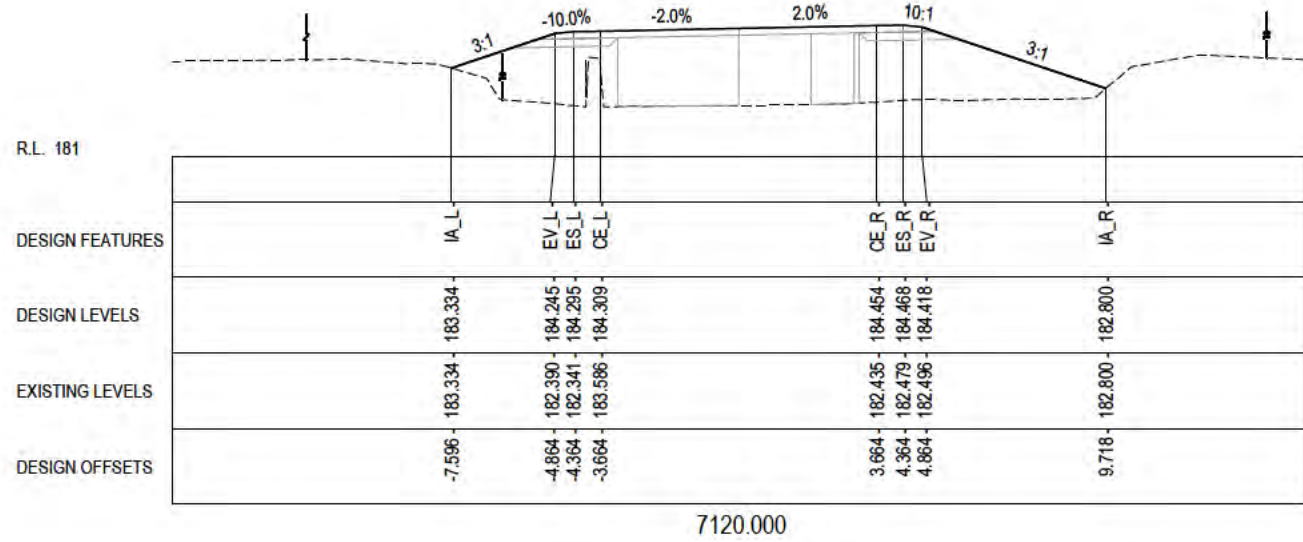


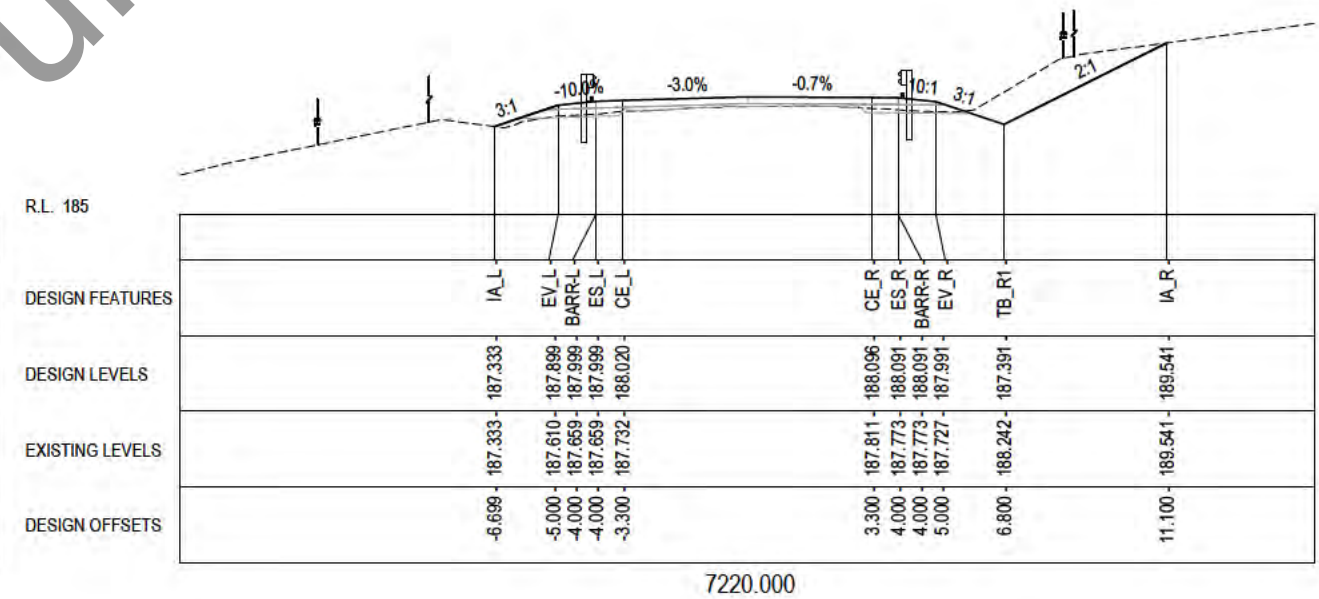
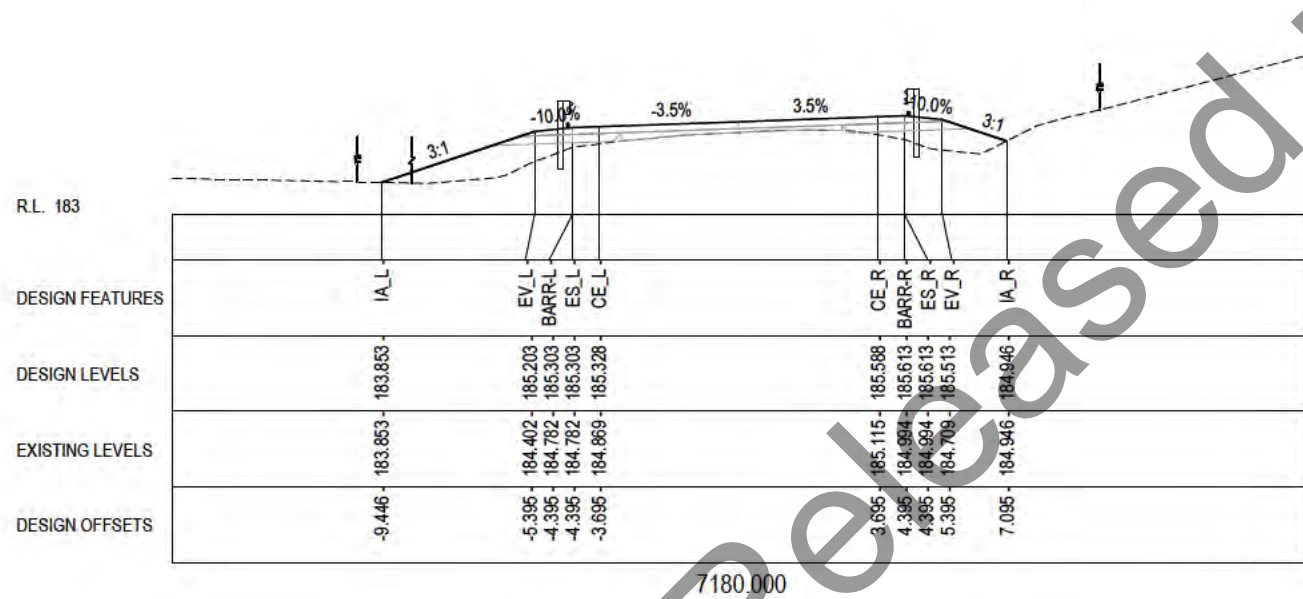
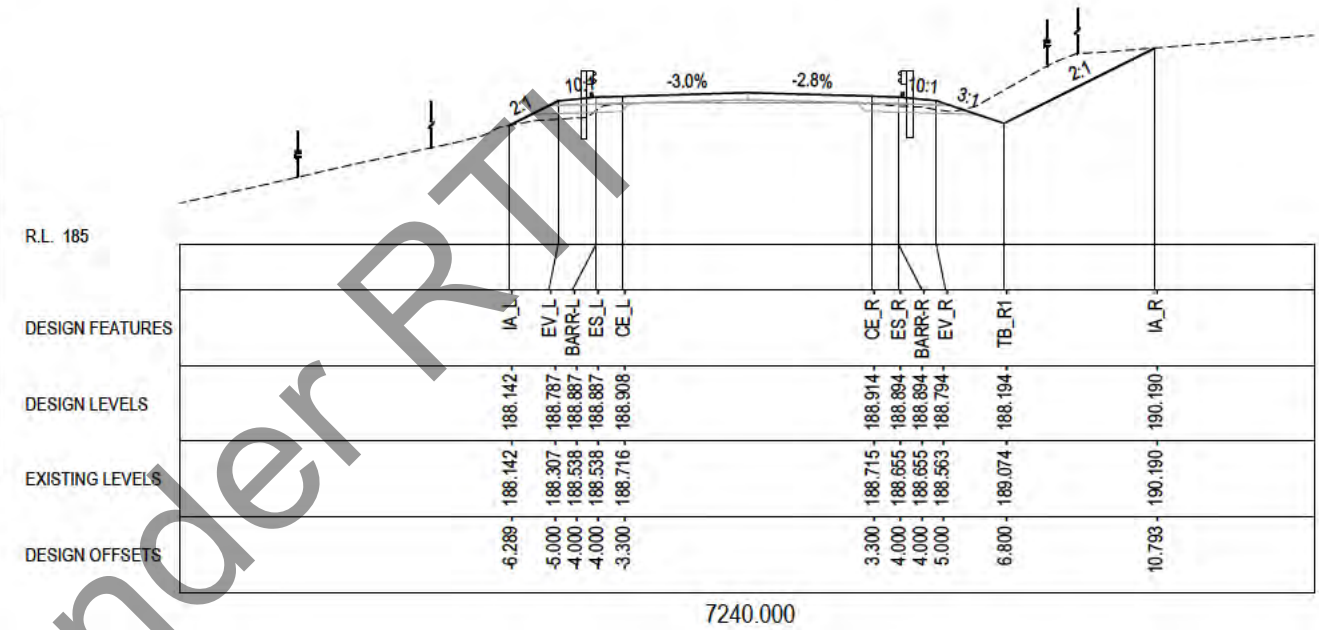
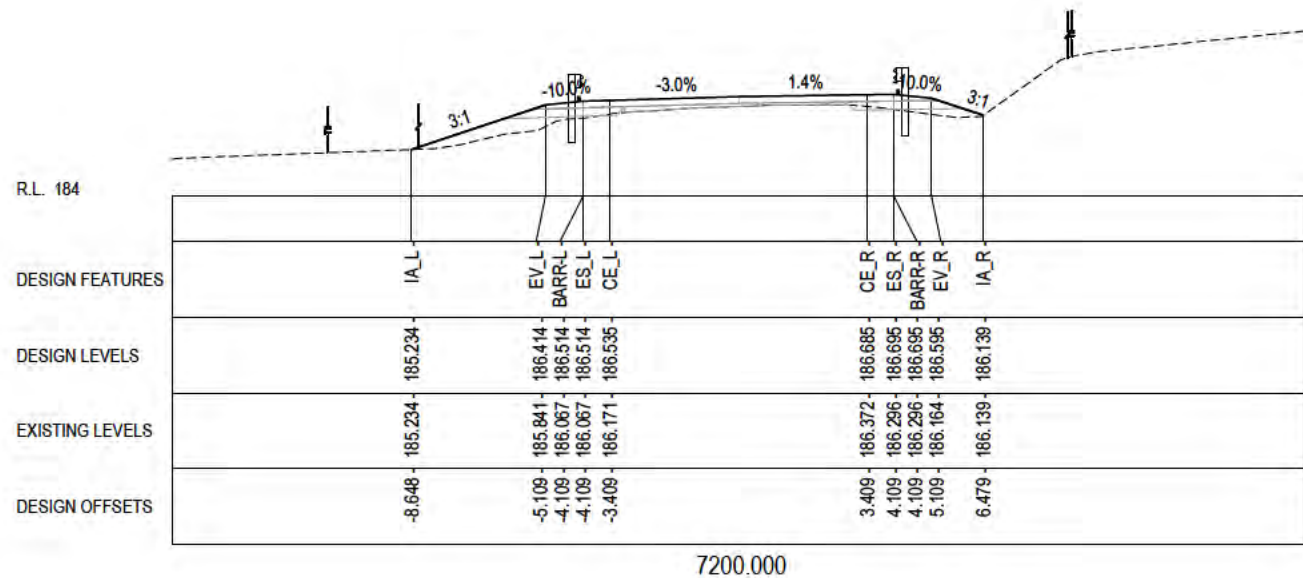
				Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2) CROSS SECTIONS (DESIGN LINE CL94) - DRG 72		CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2882	PRINTED DATE 28-Jul-23, 2:10 PM	SHEET No. 2882
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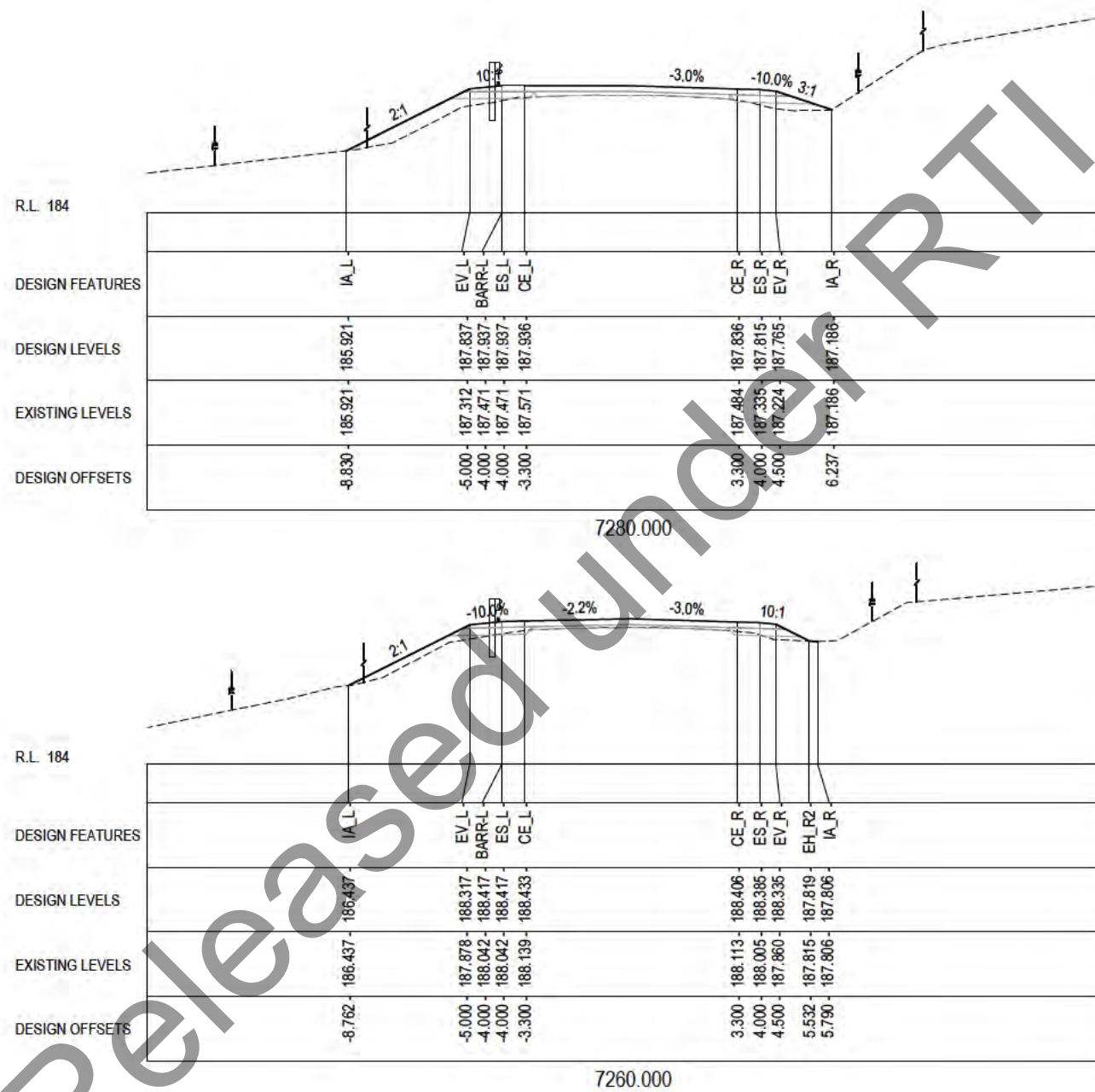


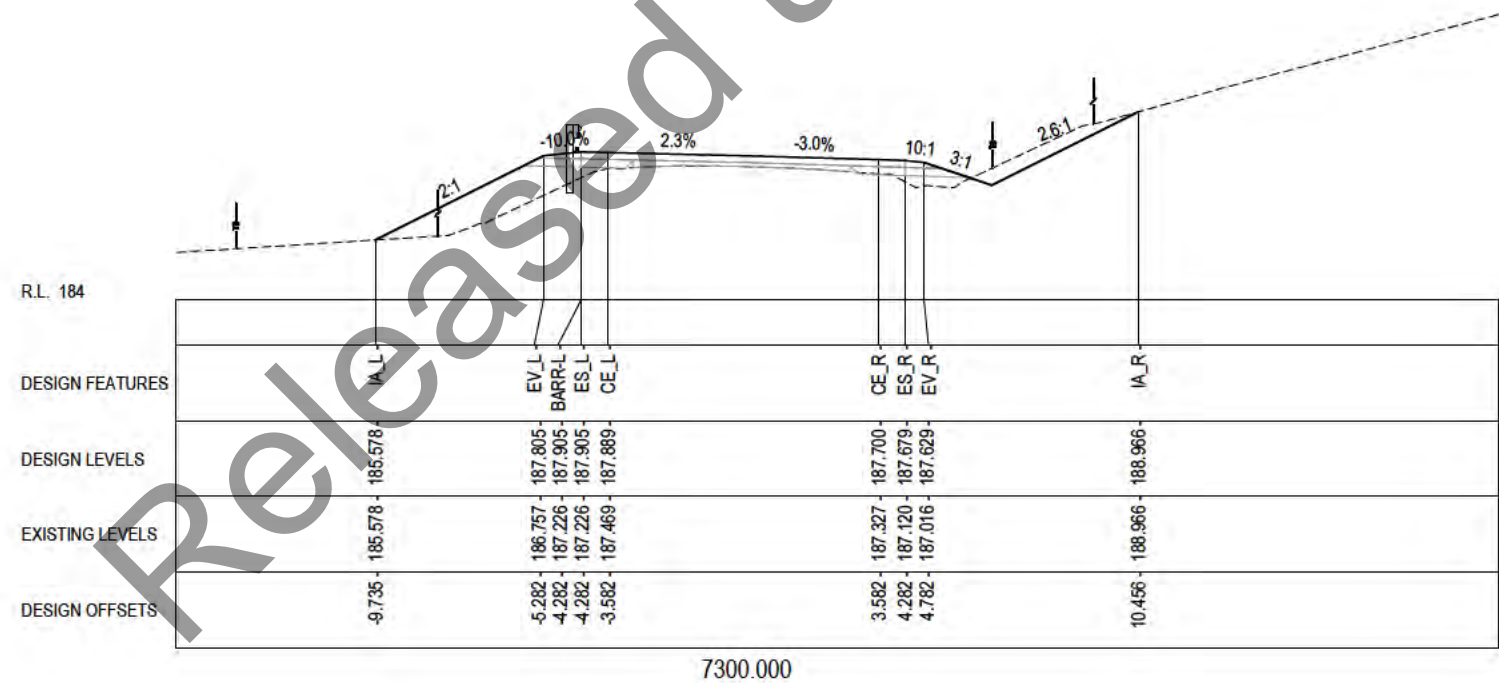
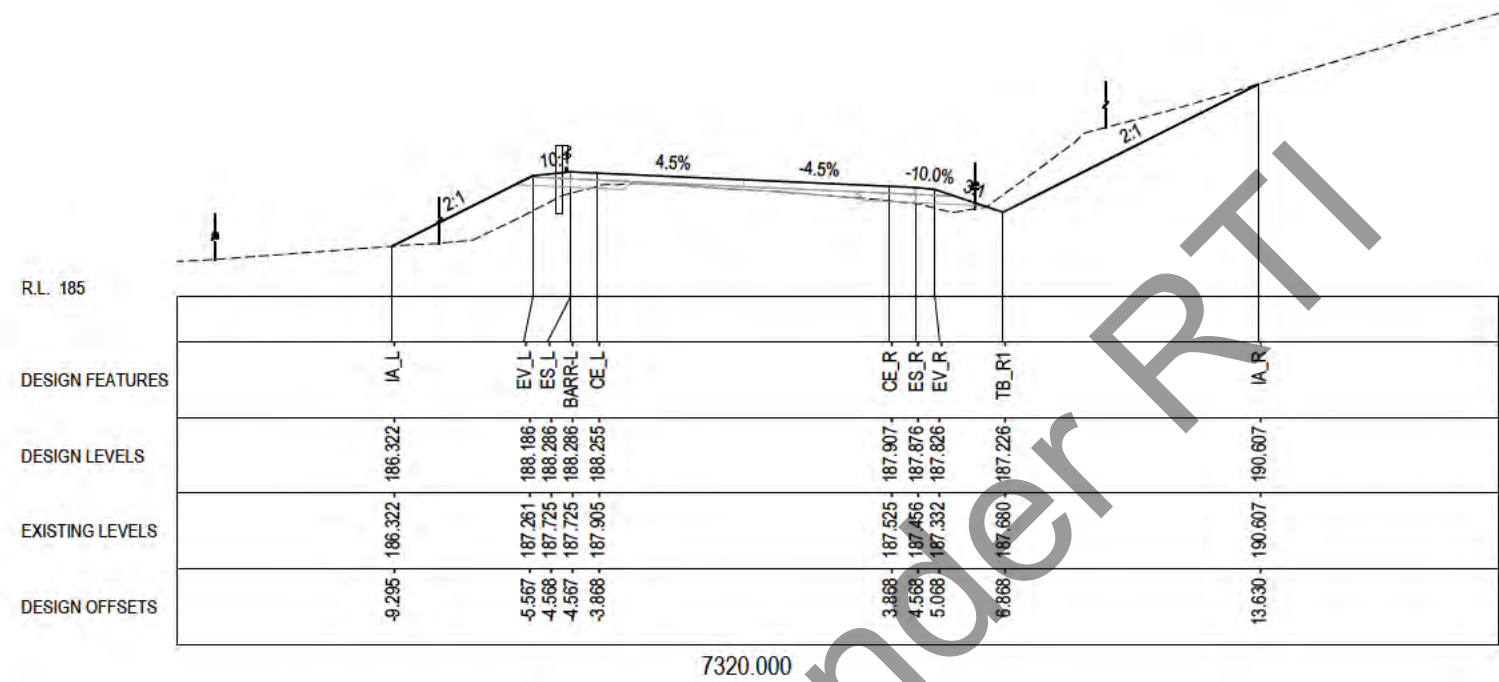


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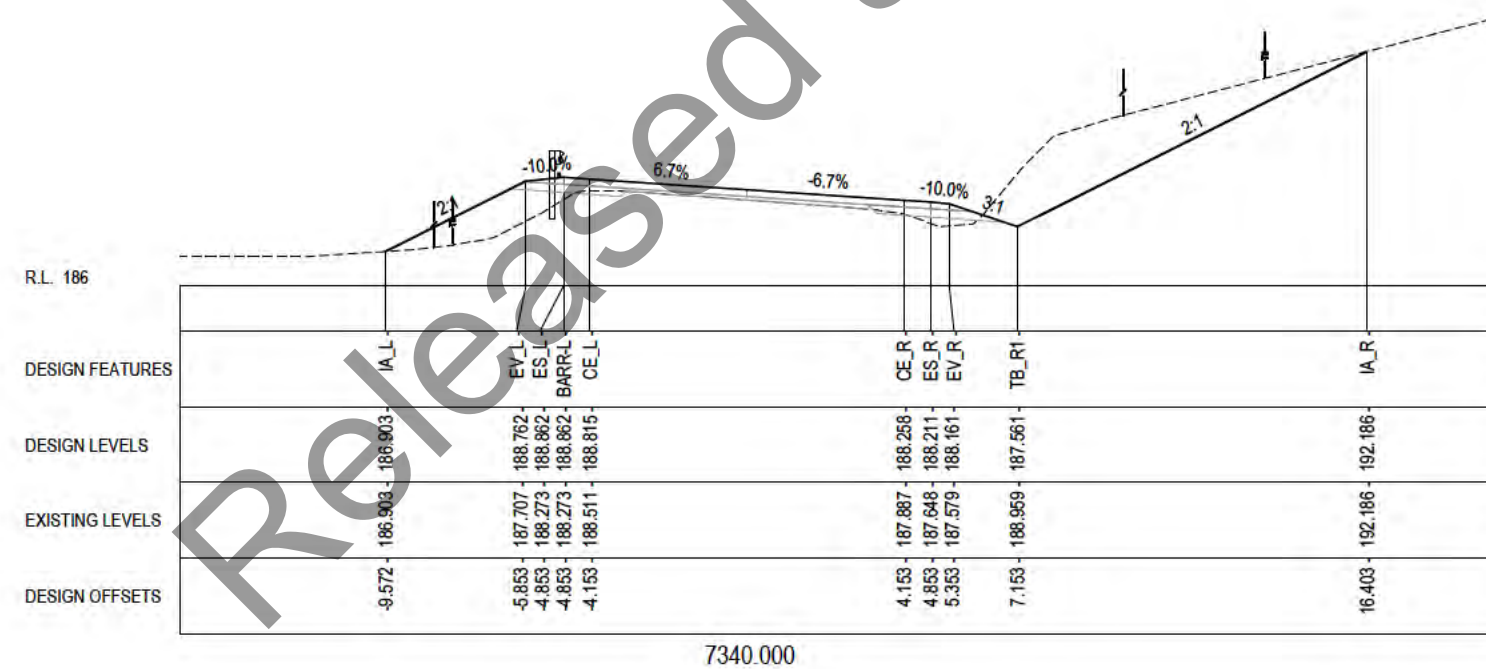
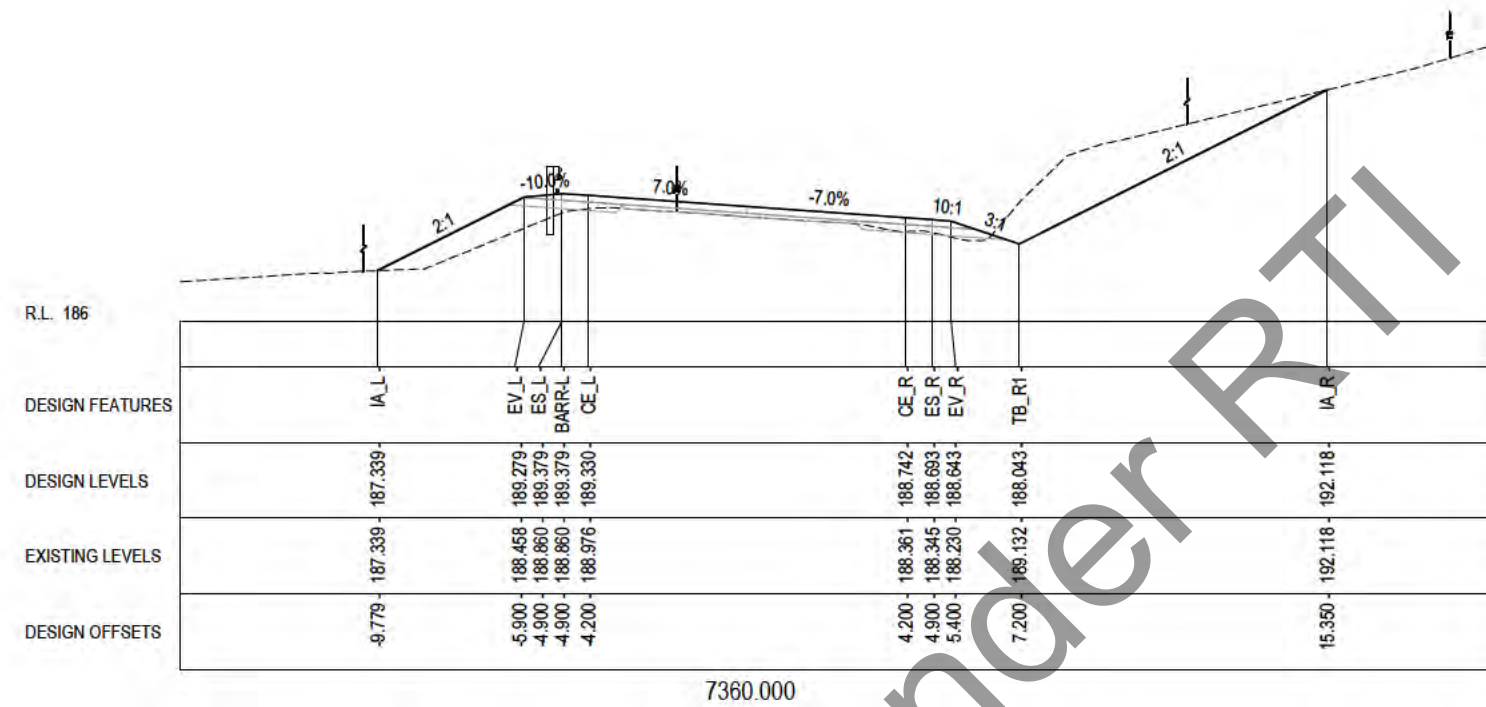


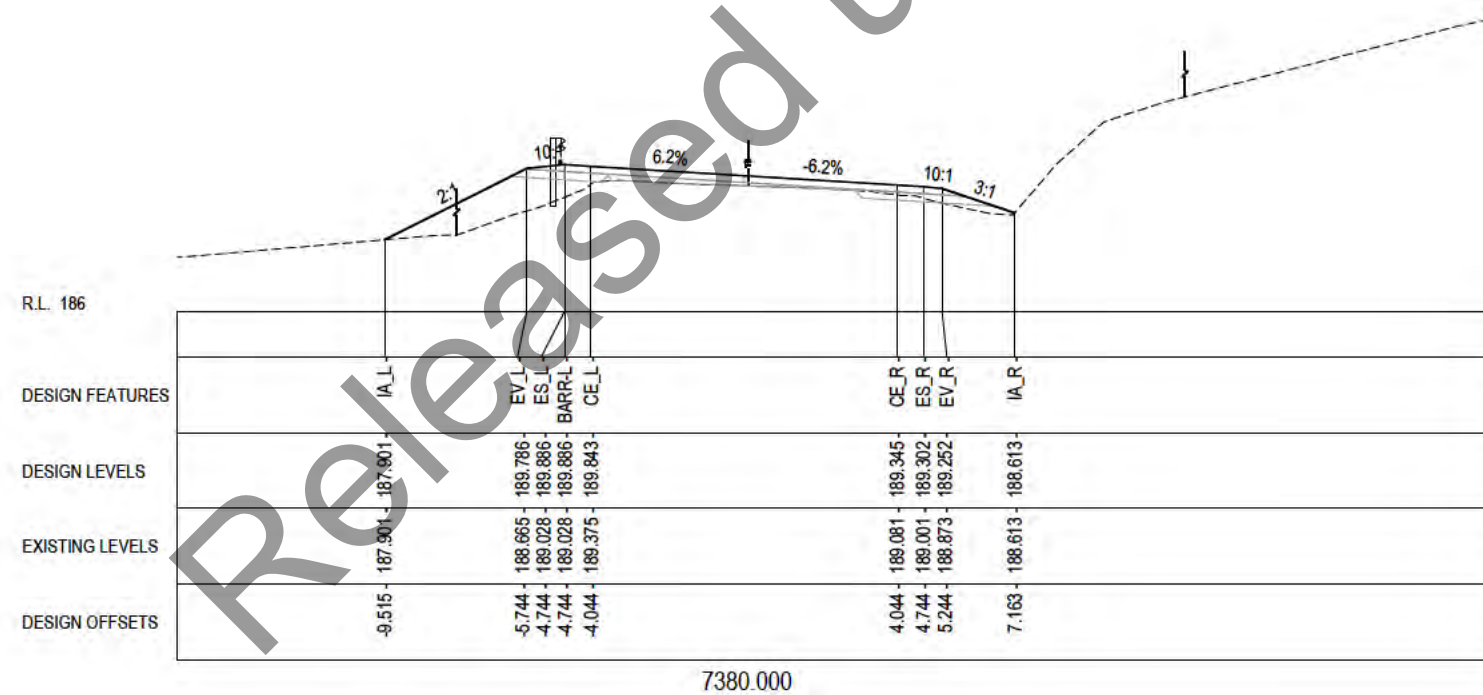
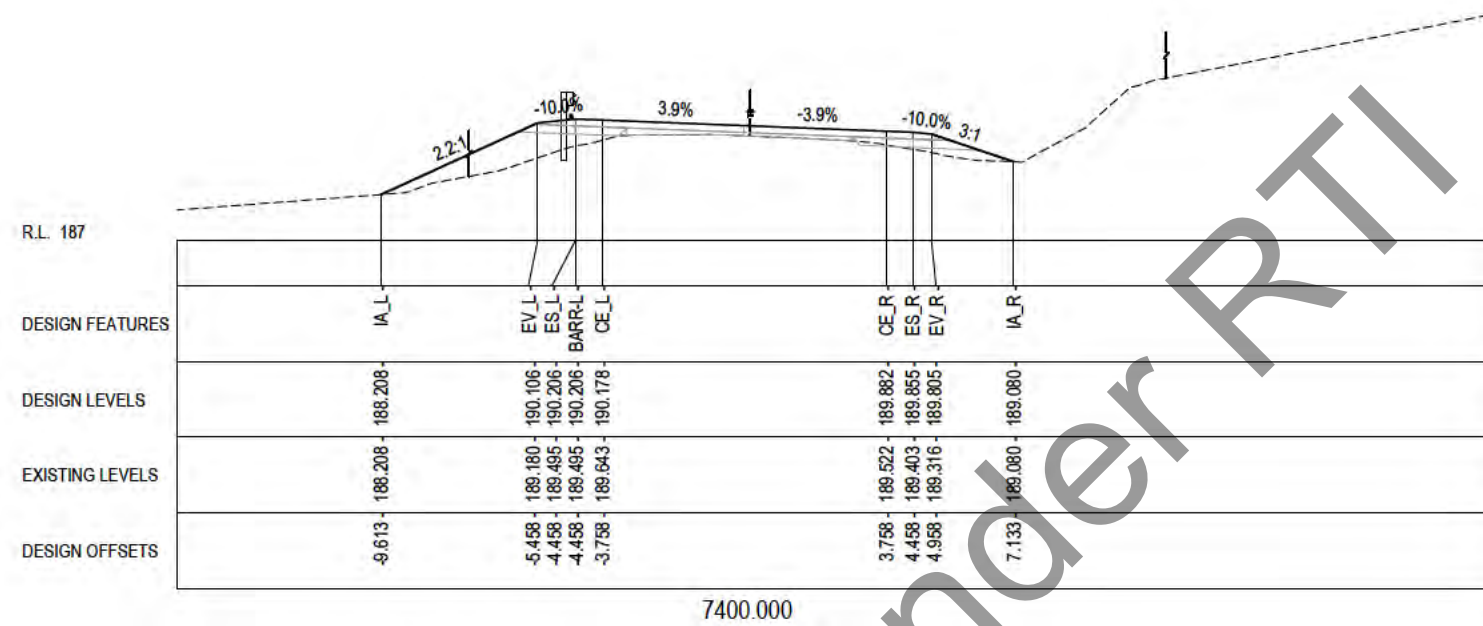




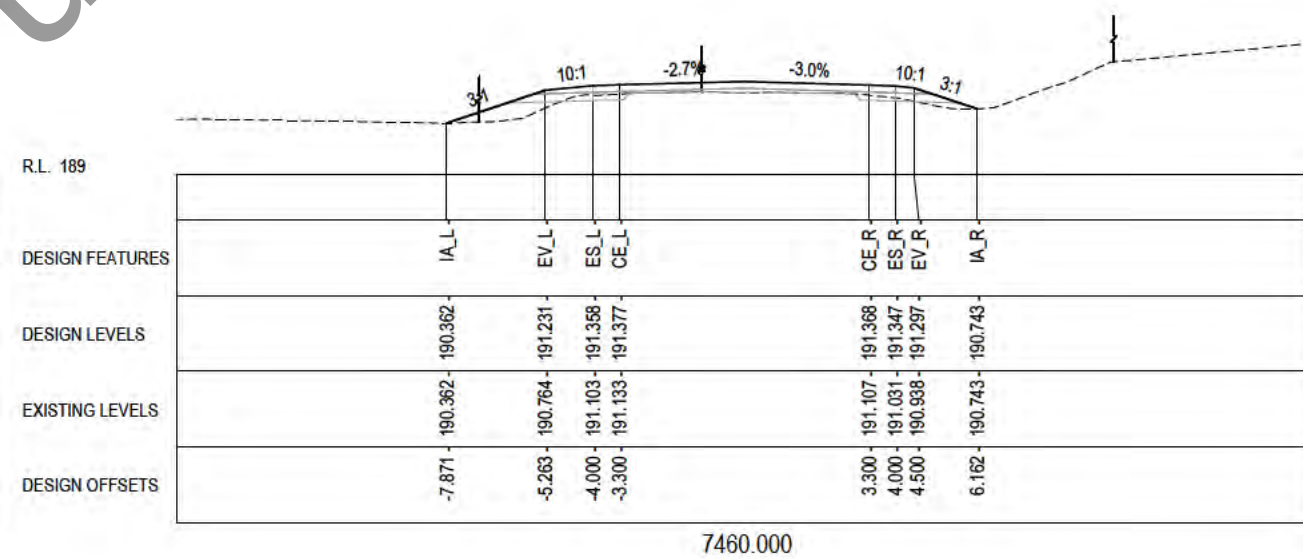
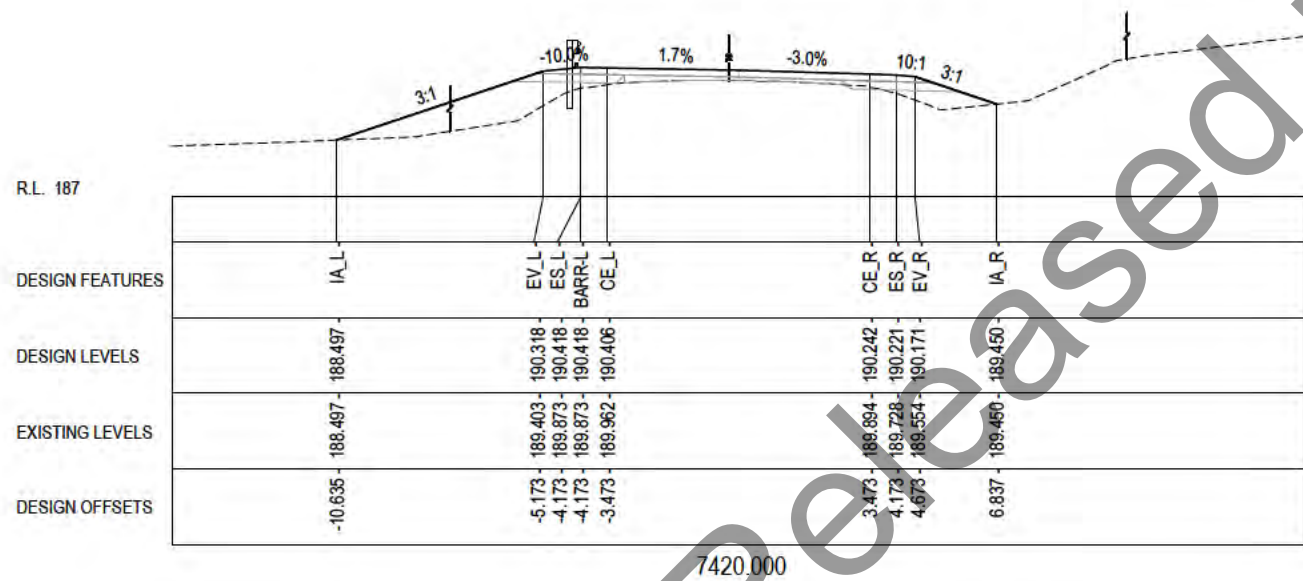
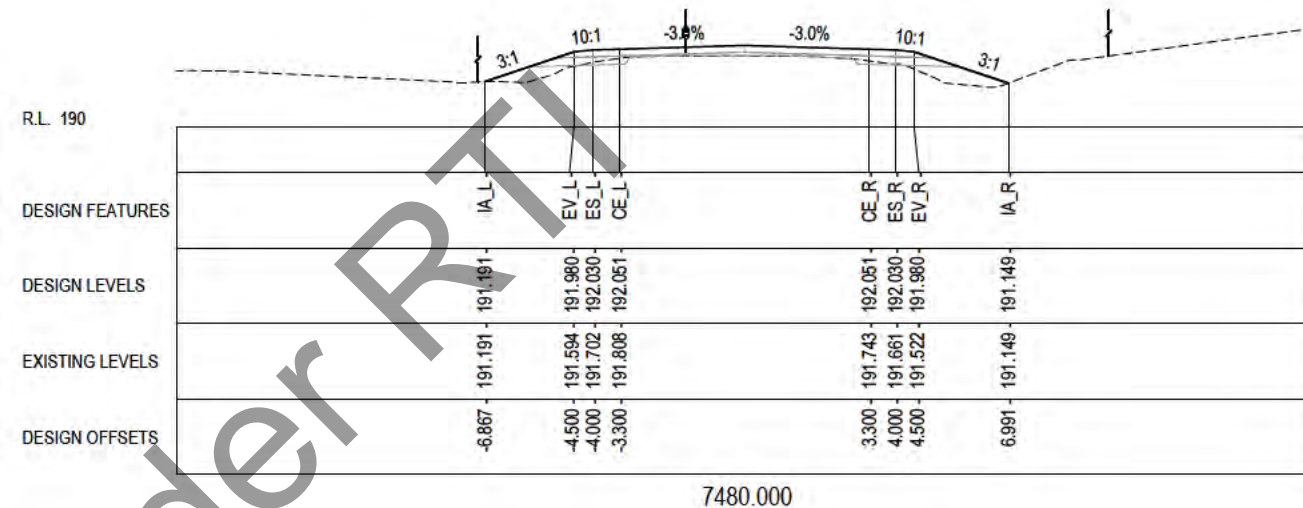
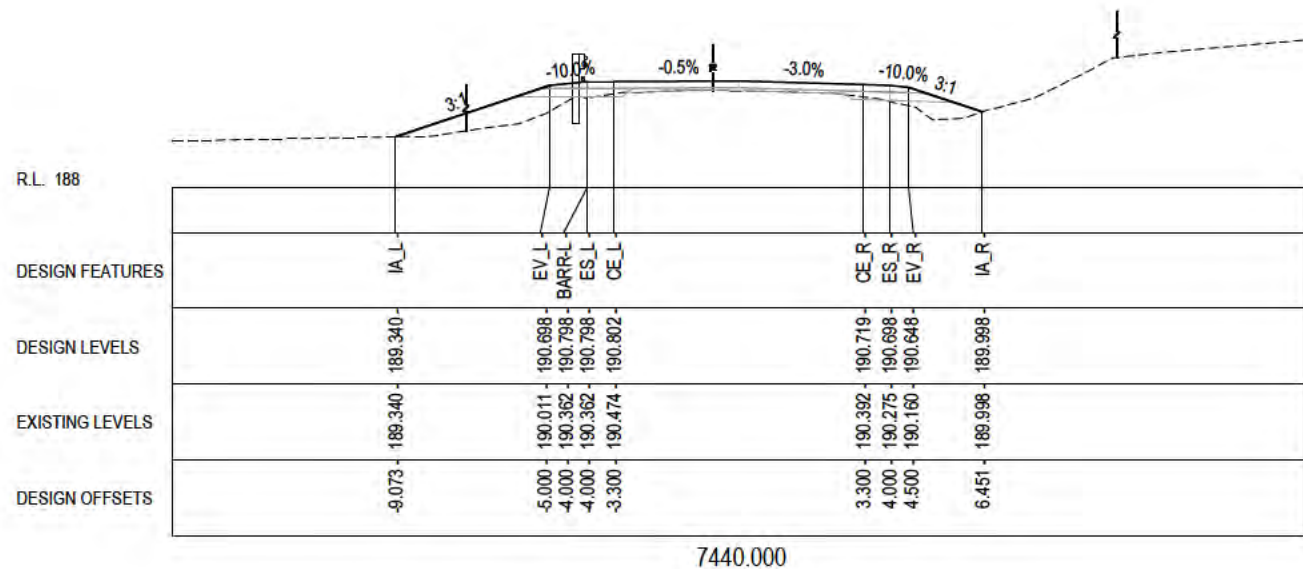


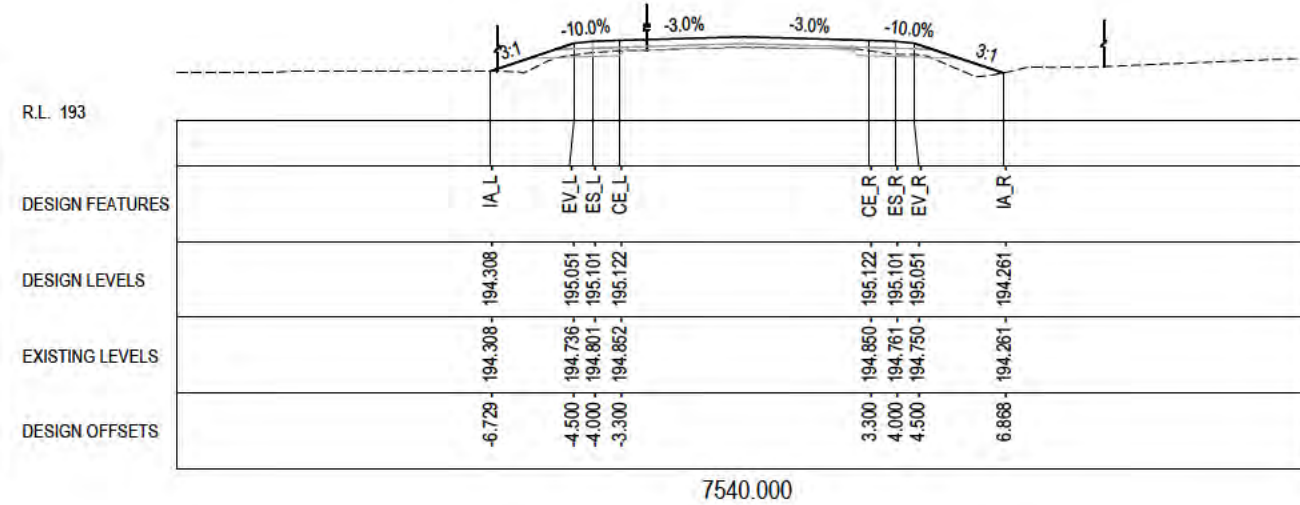
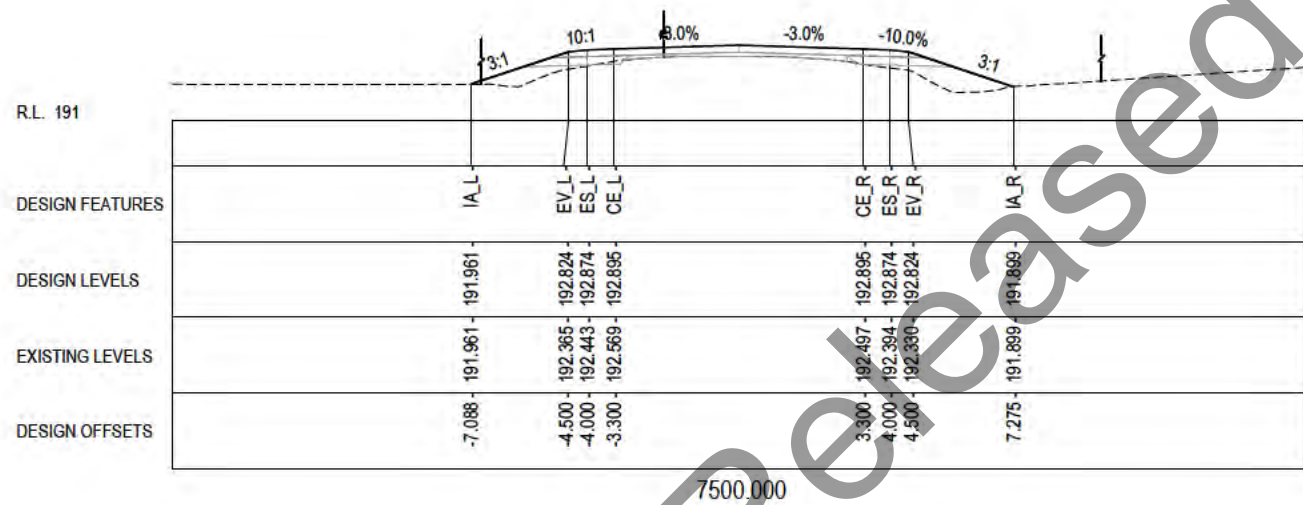
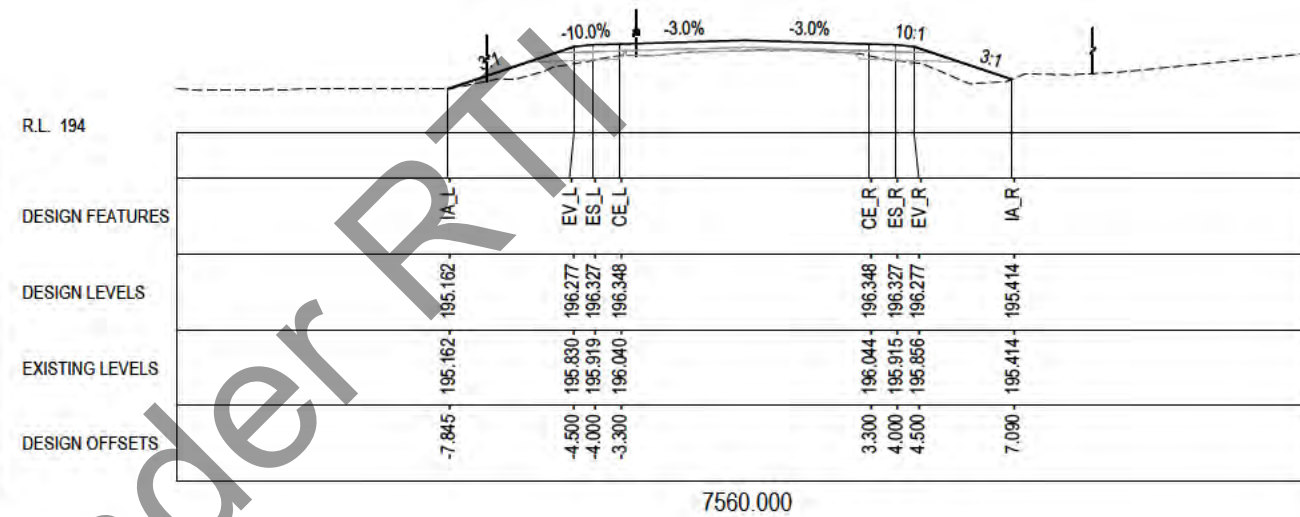
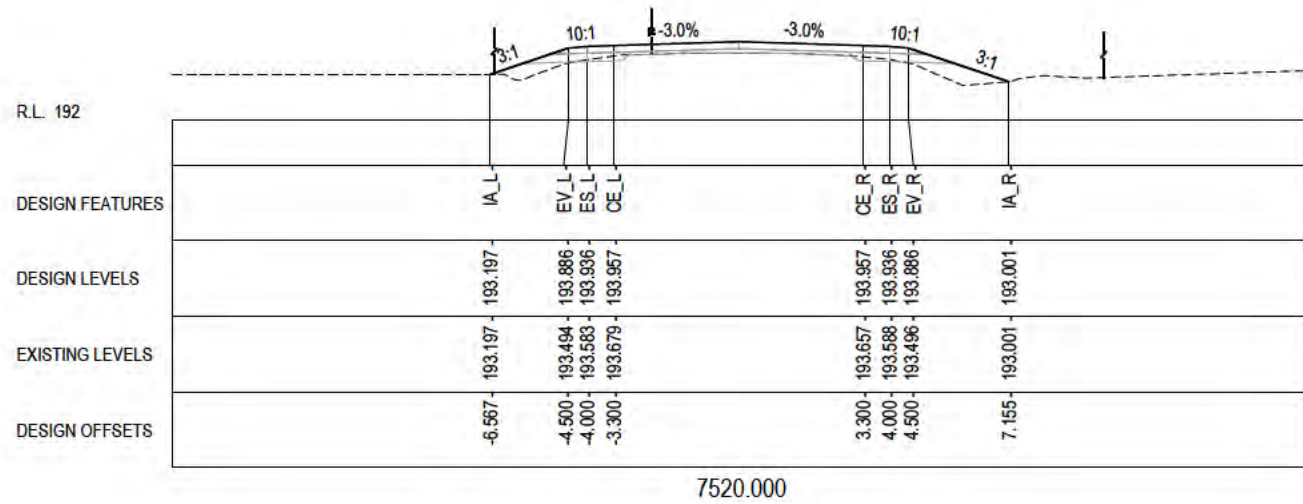
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A3 original This sheet may be prepared using colour and may be incomplete if copied													





				SCALES 1:200 SCALE IN METRES - 1:200 2 0 2 4 6 8		pitt&sherry DESIGNED REVIEWED		Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2) CROSS SECTIONS (DESIGN LINE CL94) - DRG 81		CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2891	PRINTED DATE 28-Jul-23, 2:11 PM	SHEET No. 2891
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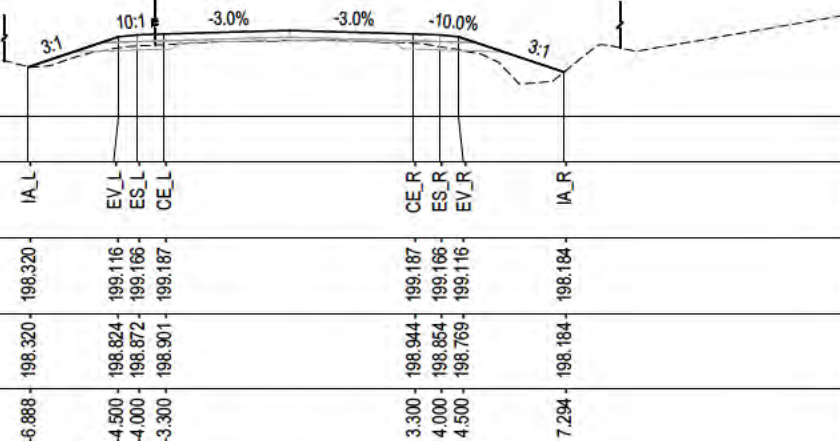
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DESIGN OFFSETS



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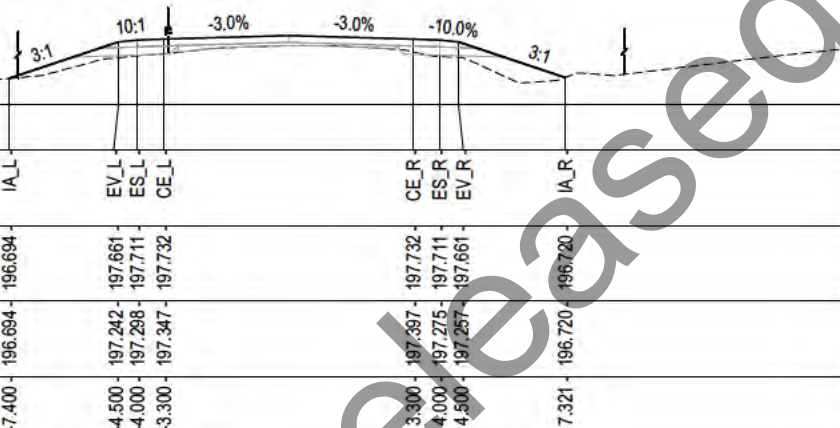
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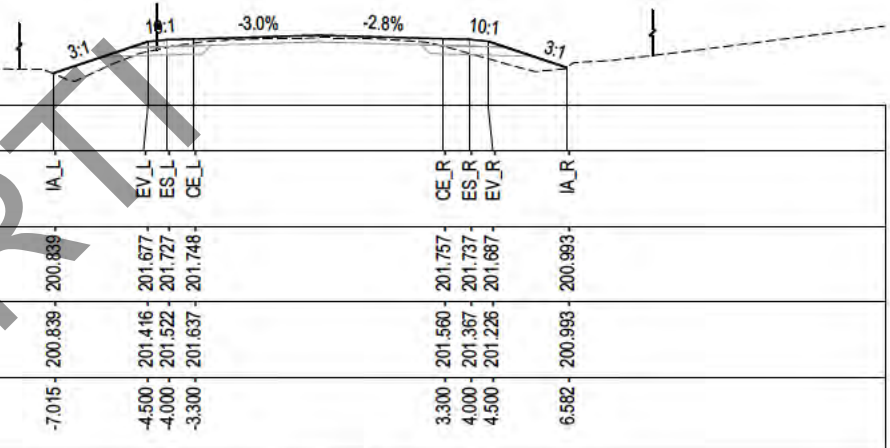
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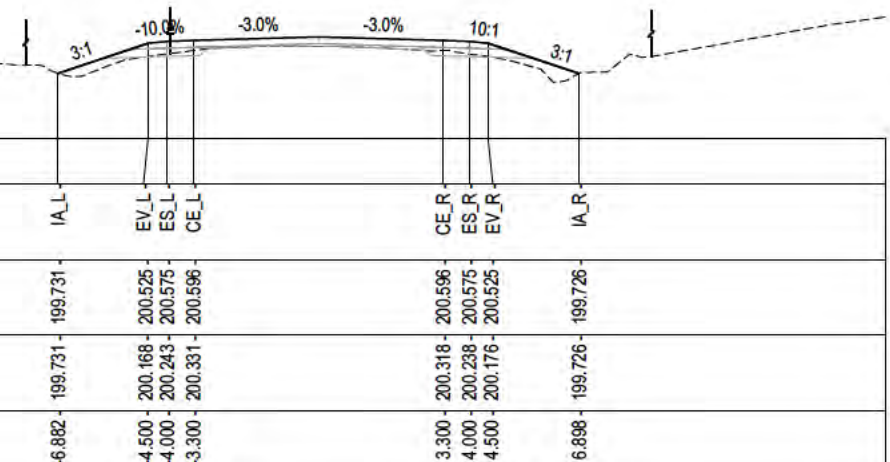
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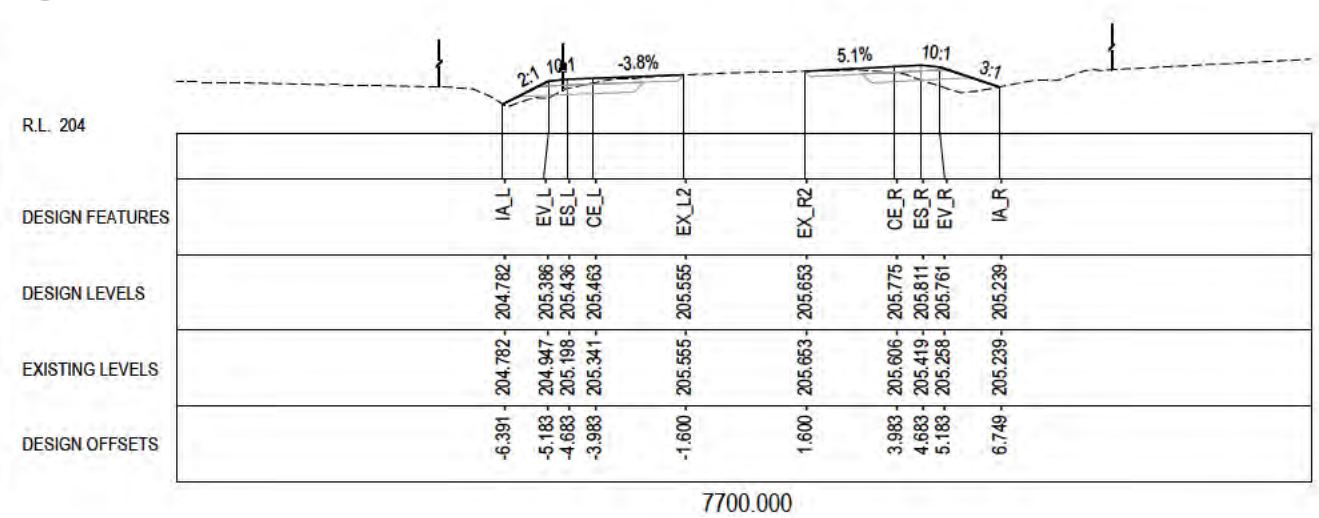
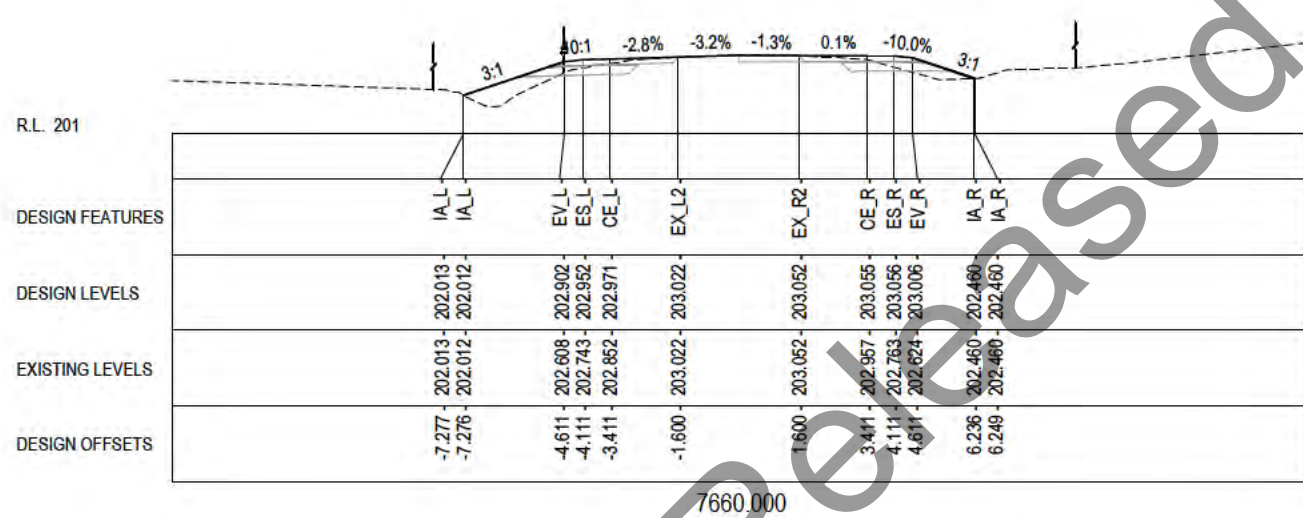
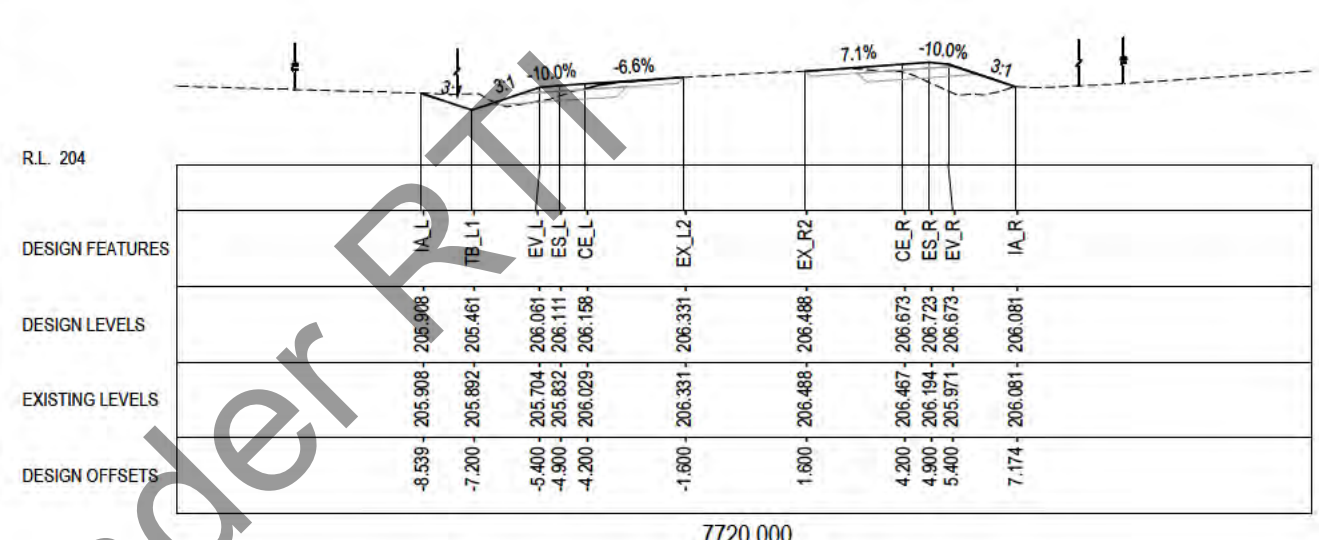
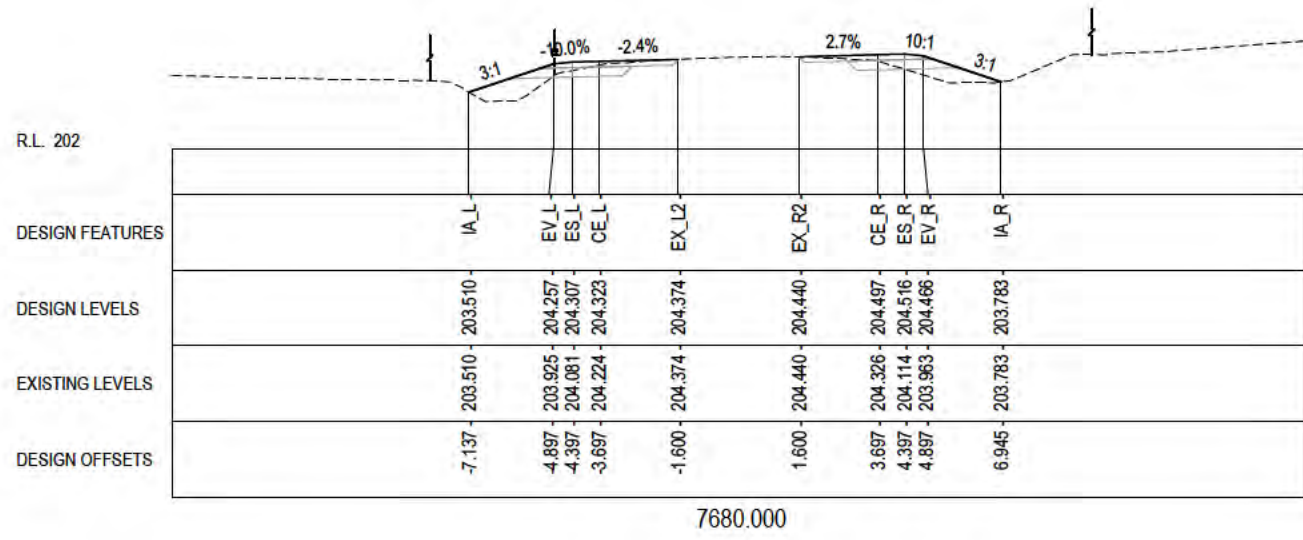
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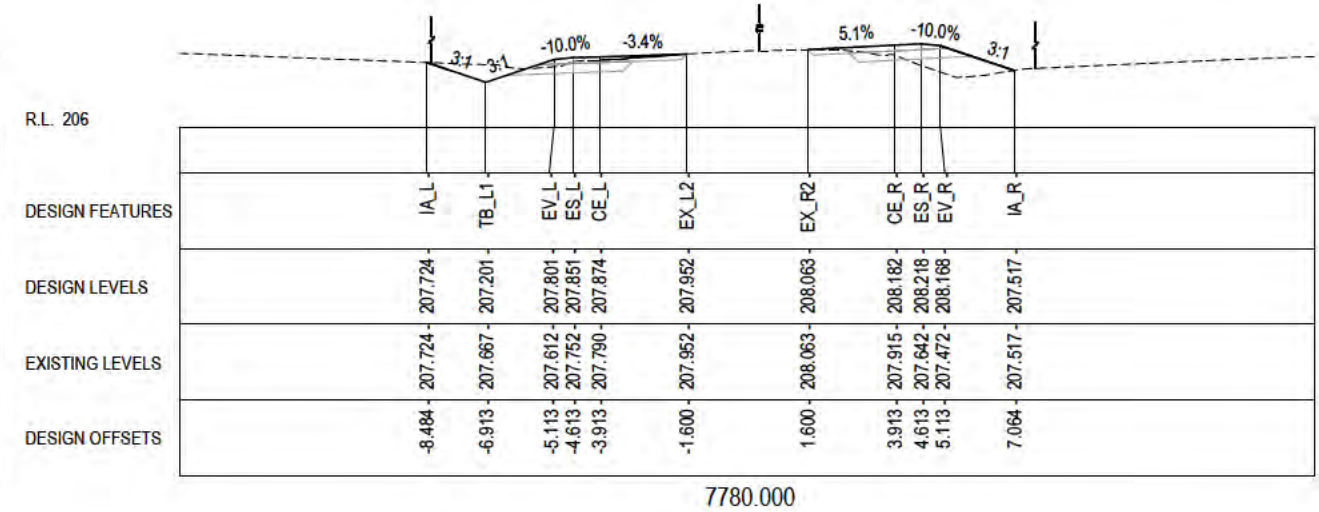
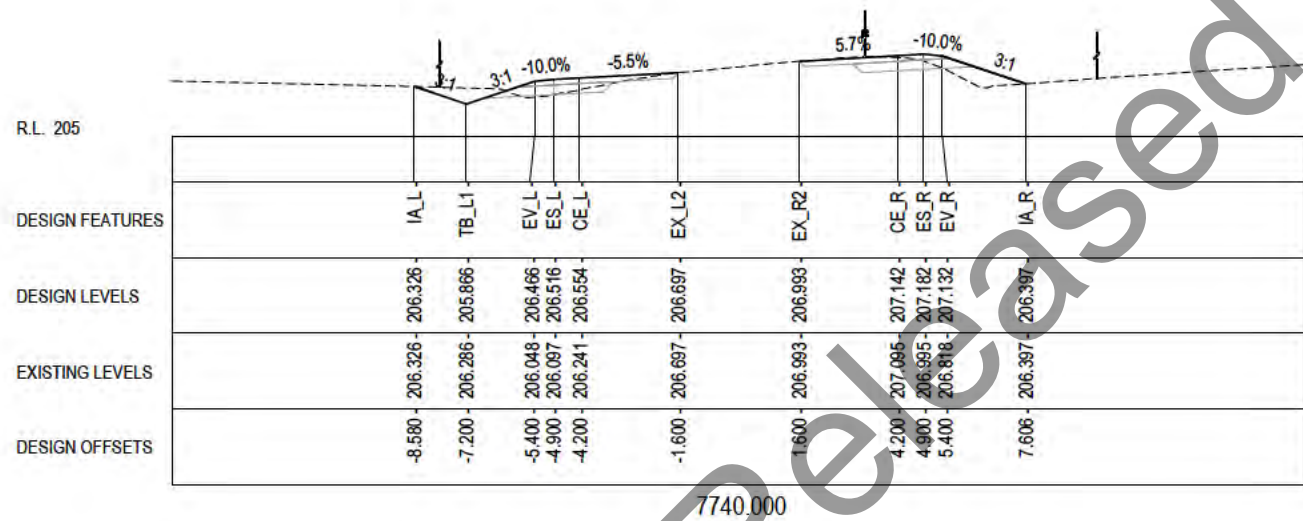
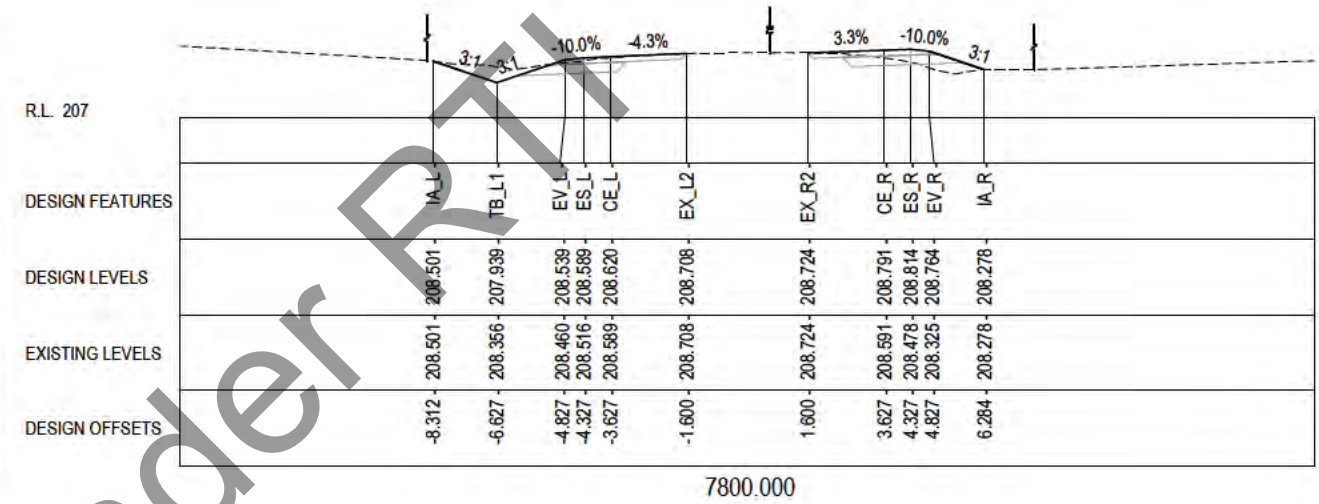
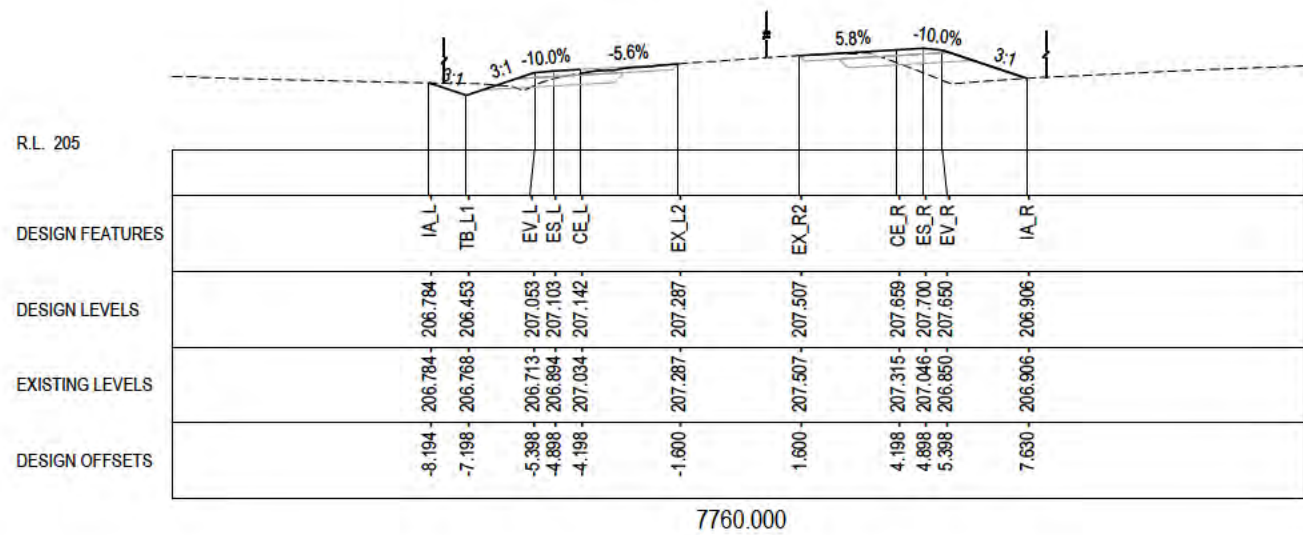
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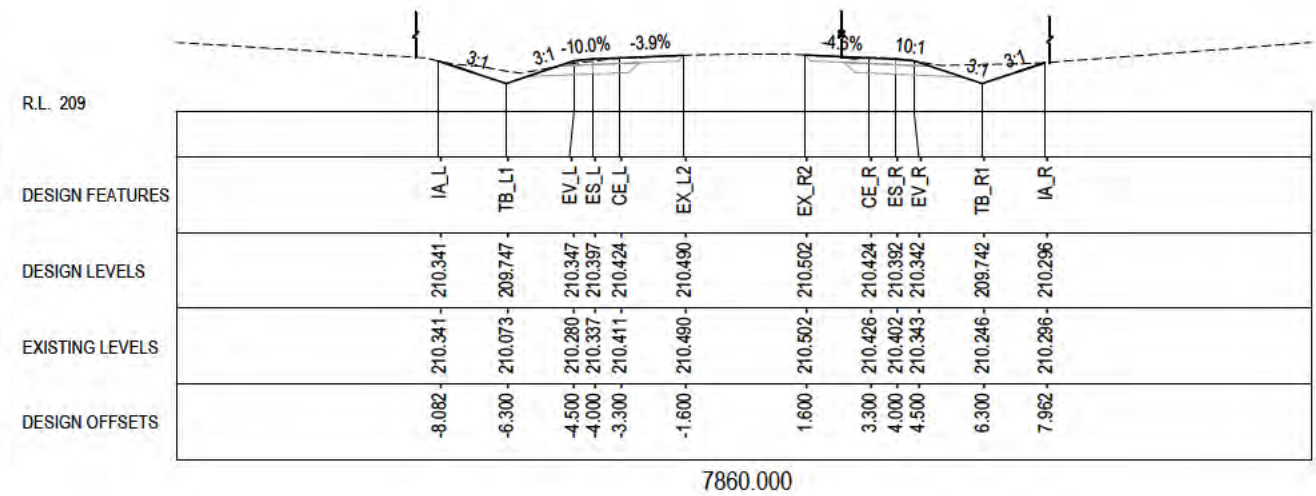
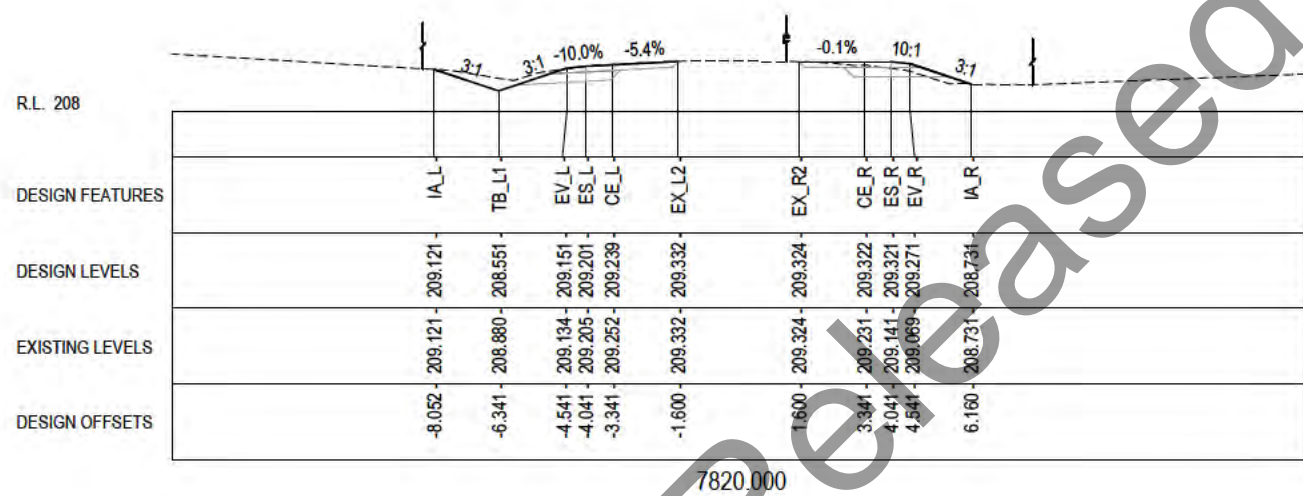
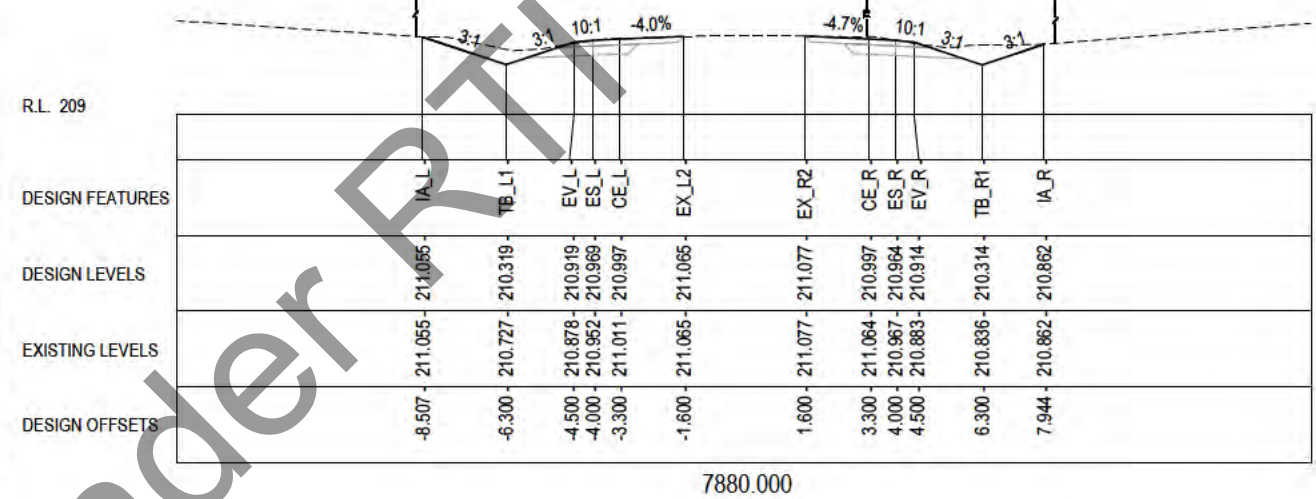
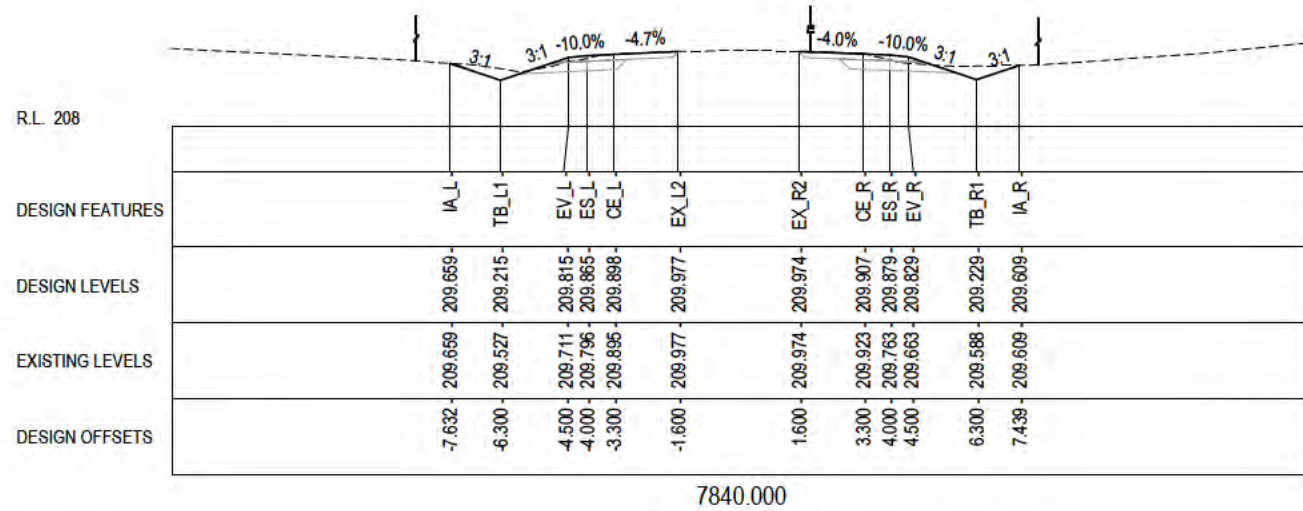
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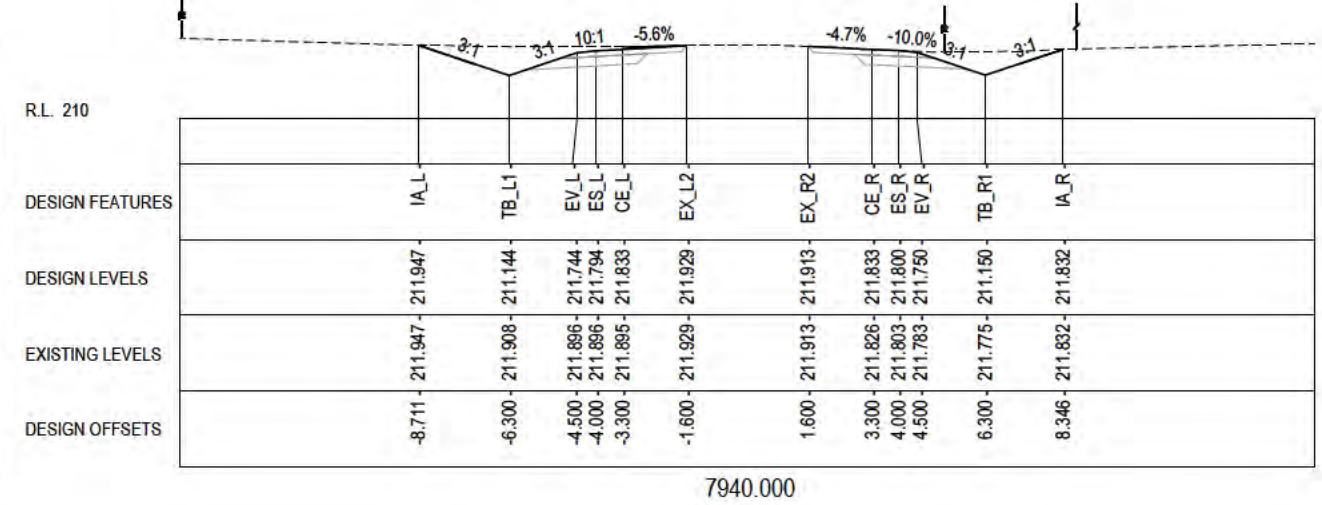
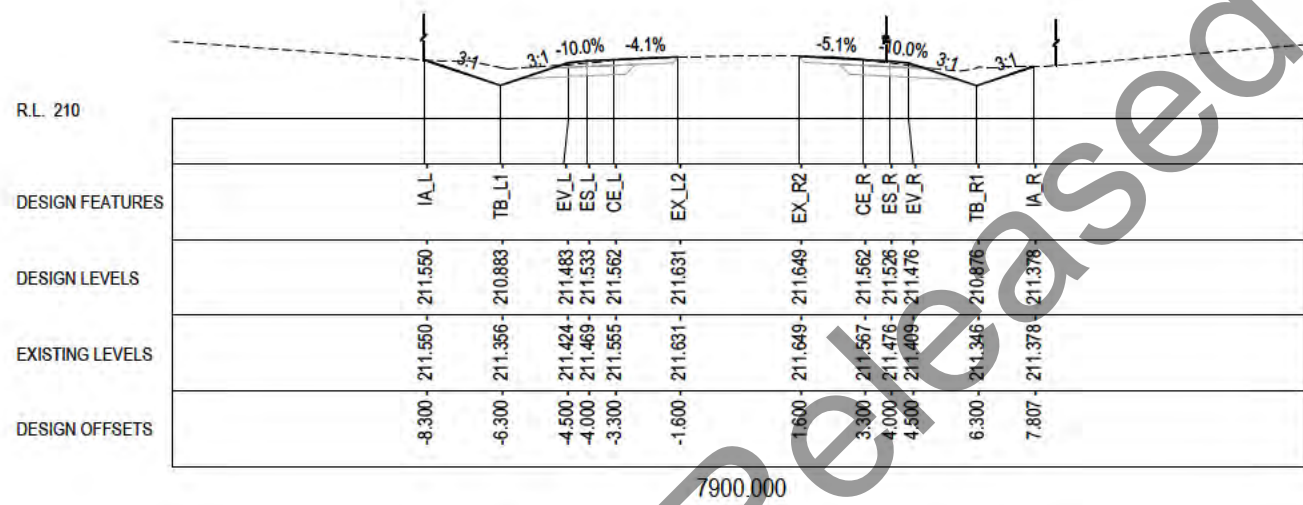
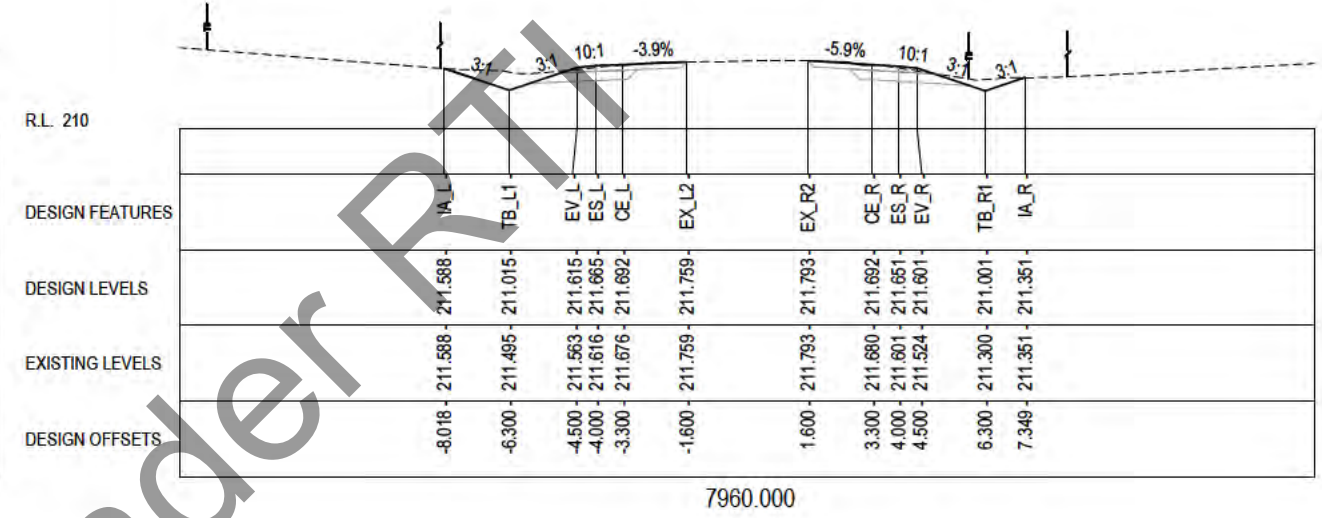
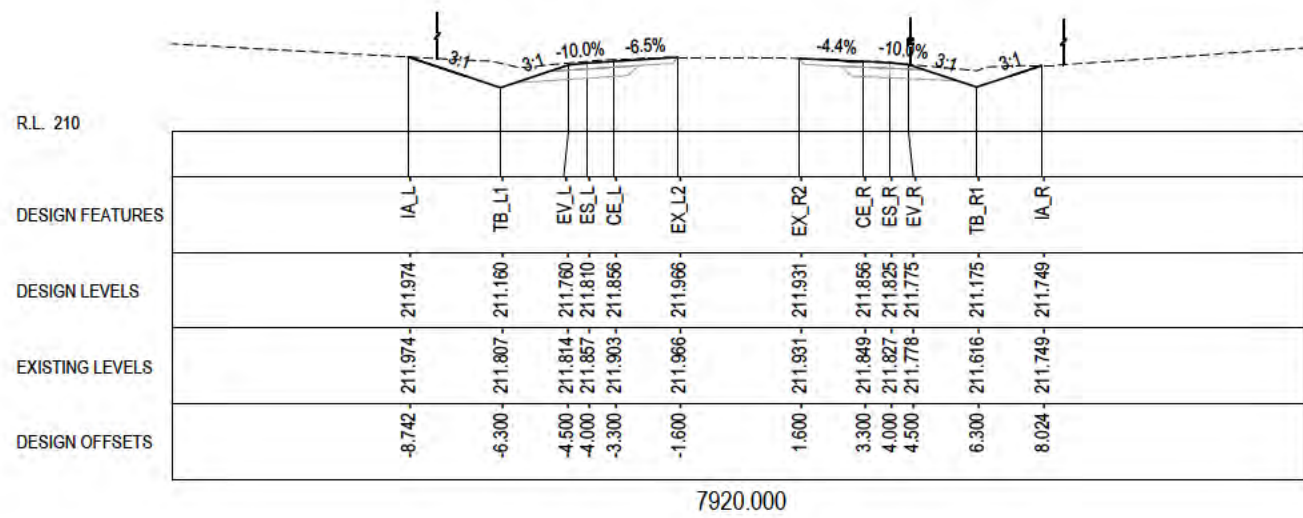
Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)	
CROSS SECTIONS (DESIGN LINE CL94) - DRG 84	

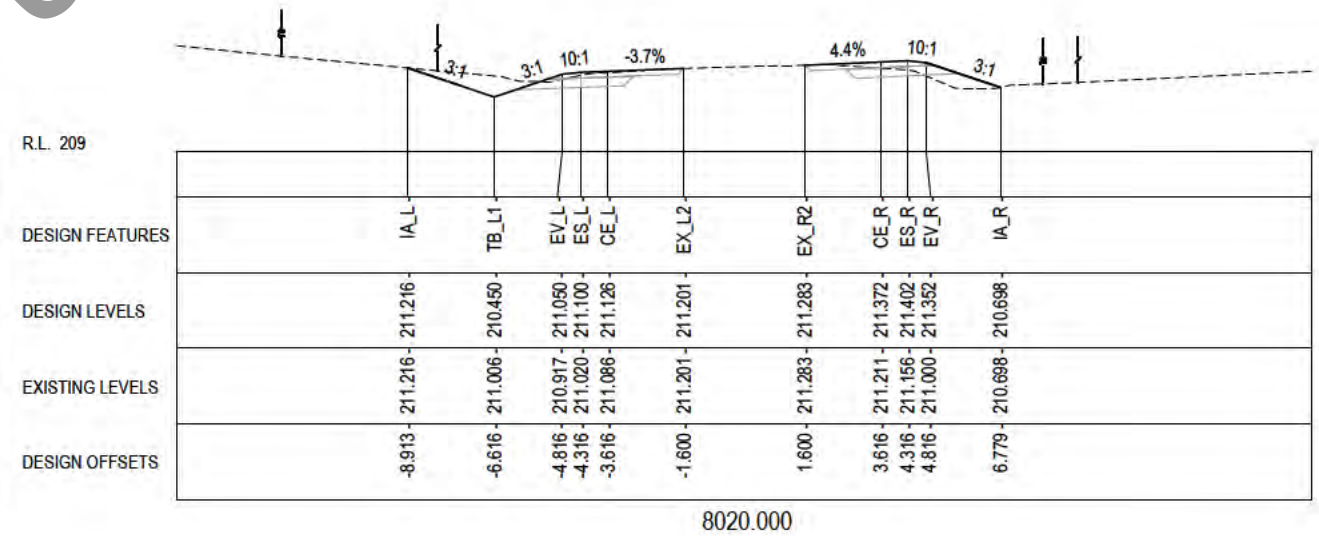
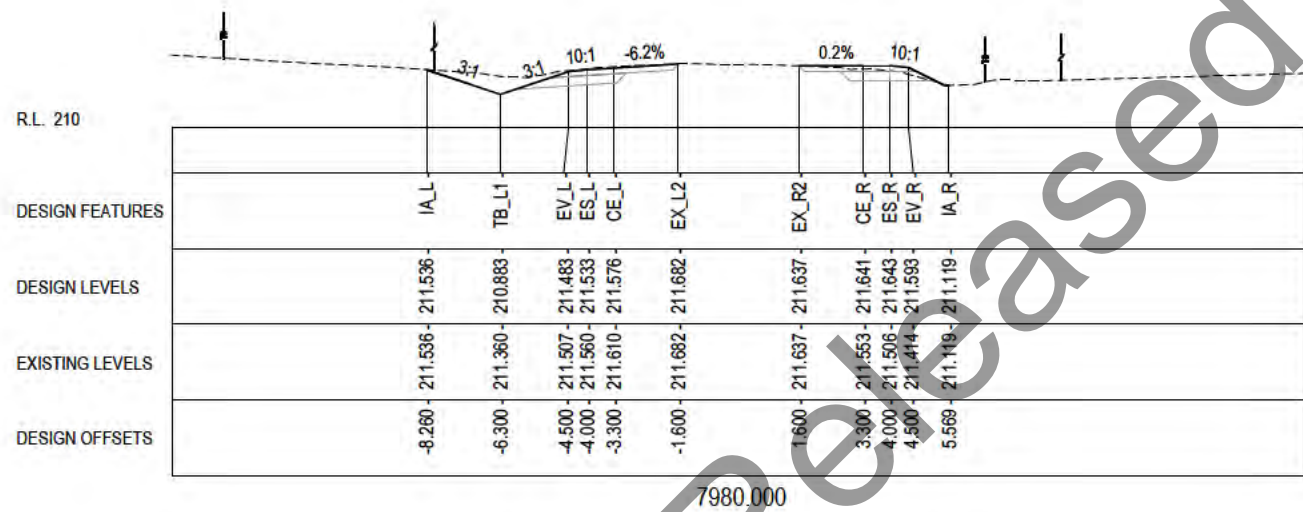
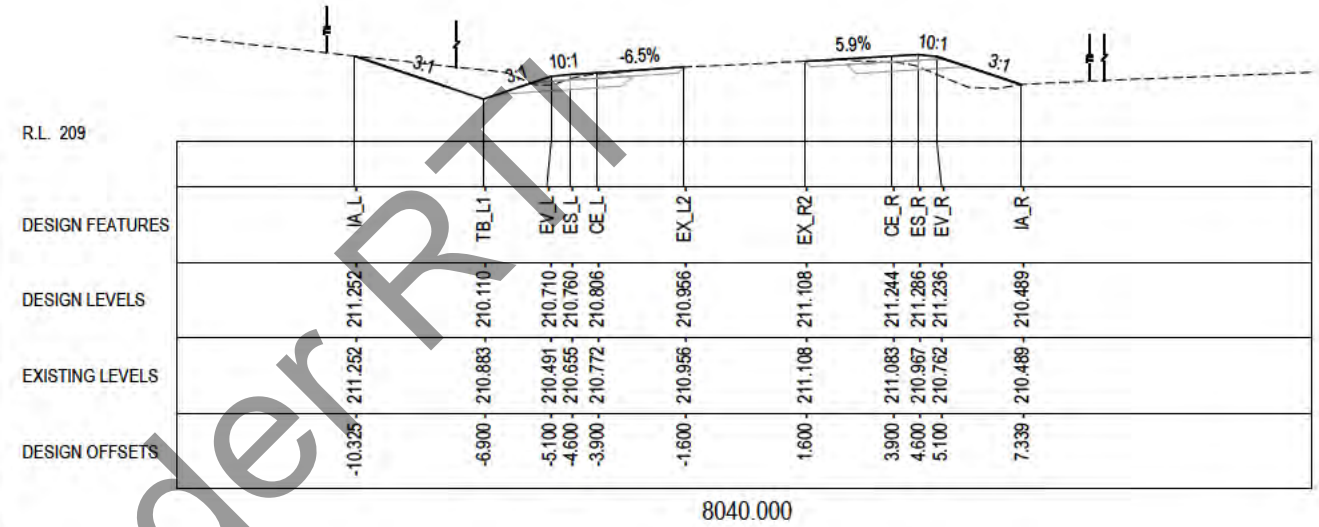
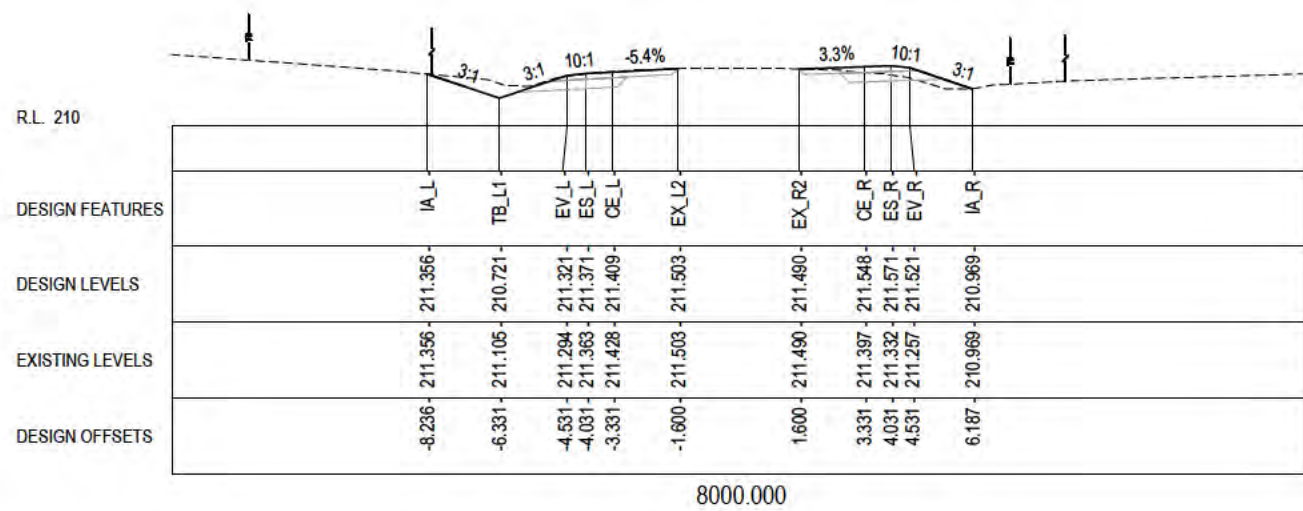
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REGISTRATION NUMBER A1701.002			REVISION A

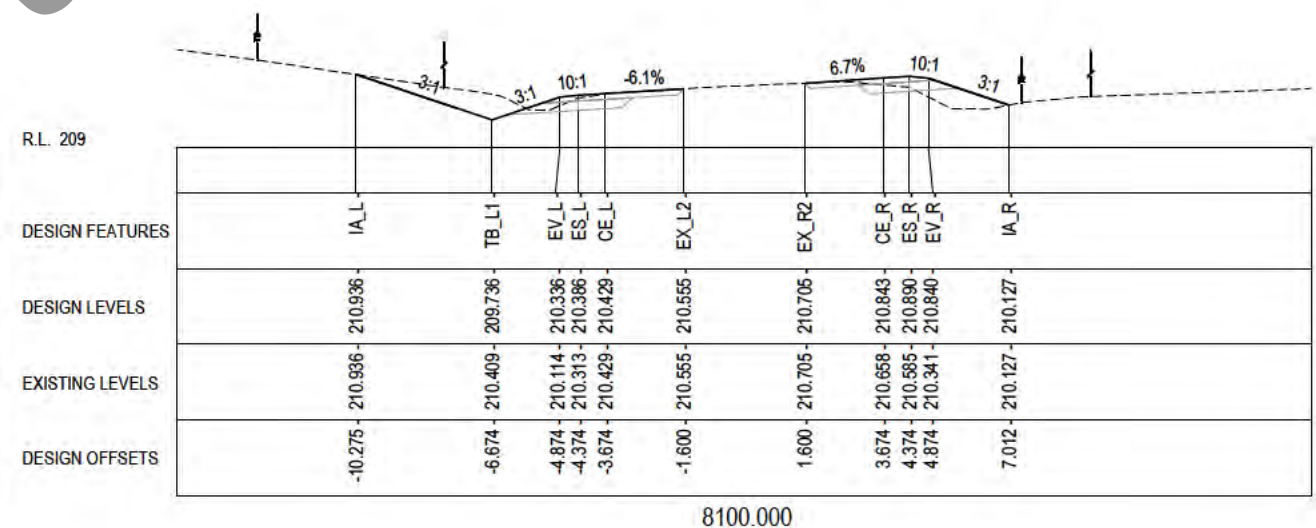
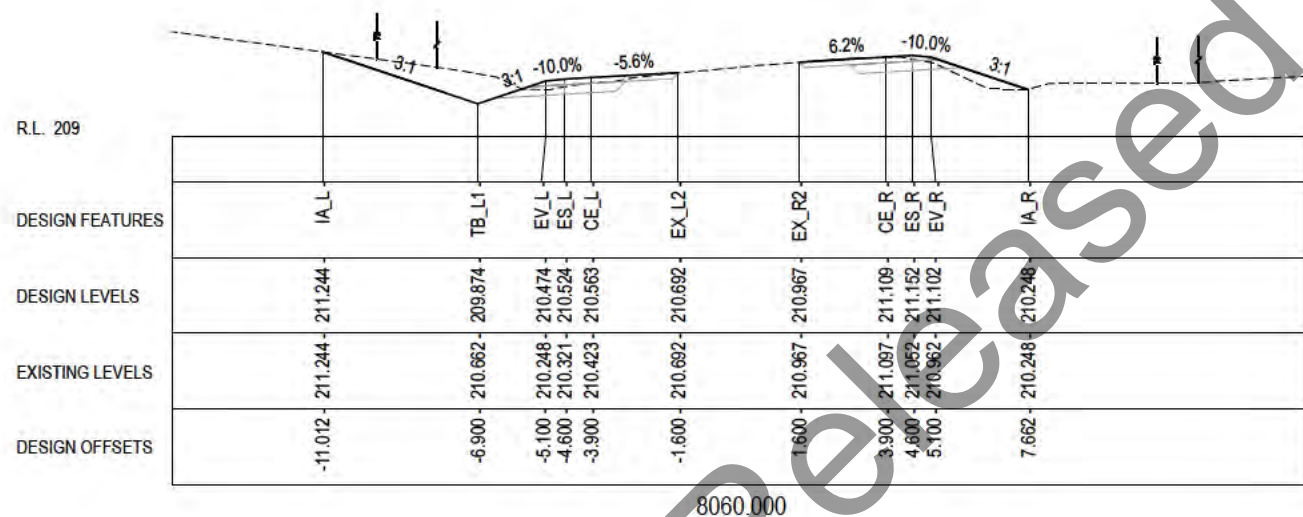
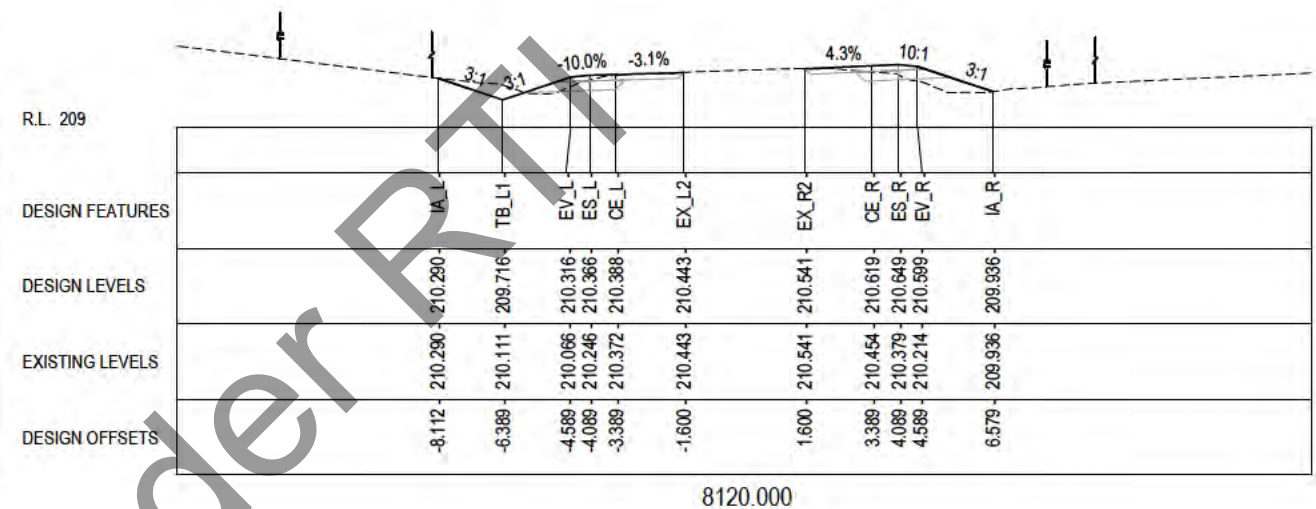
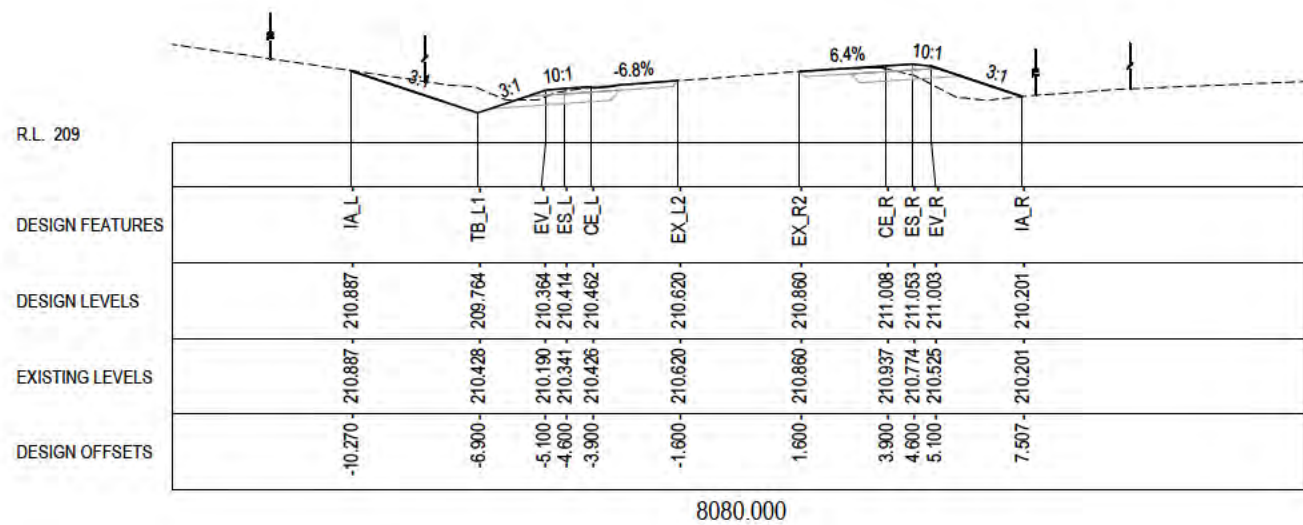


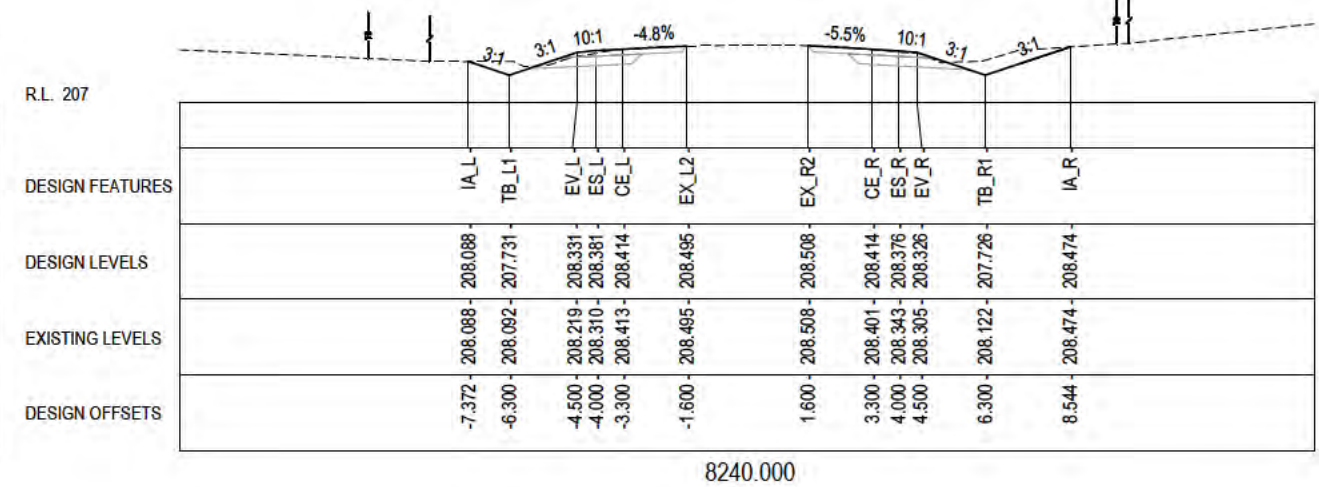
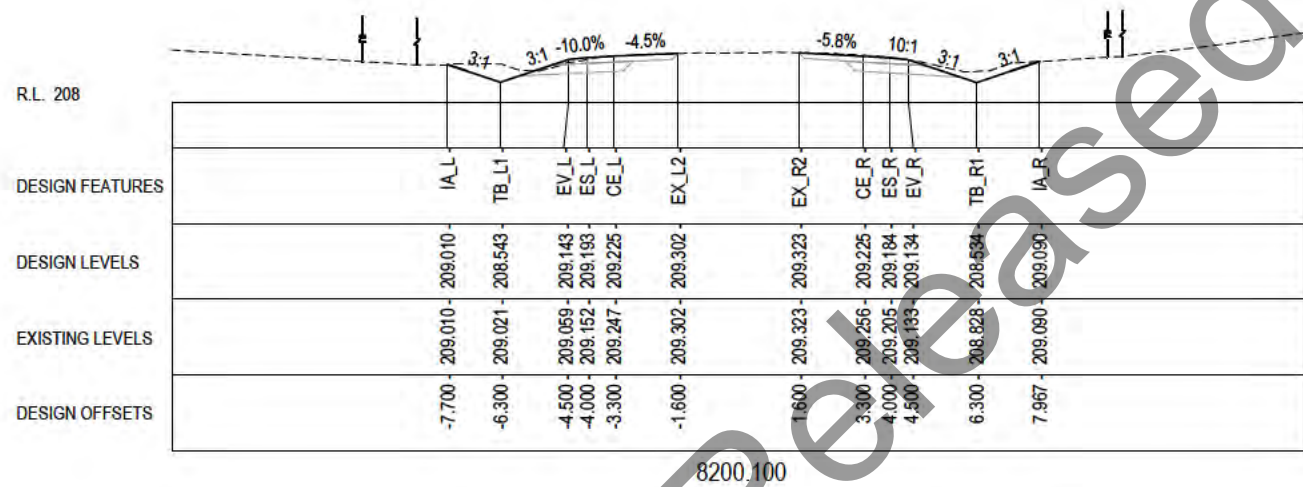
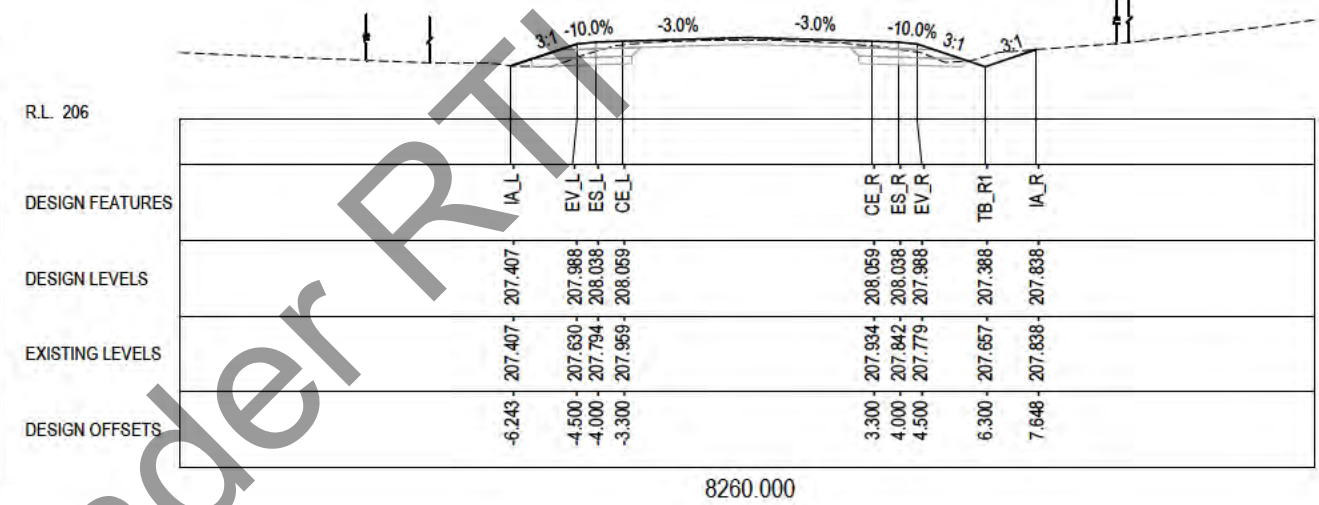
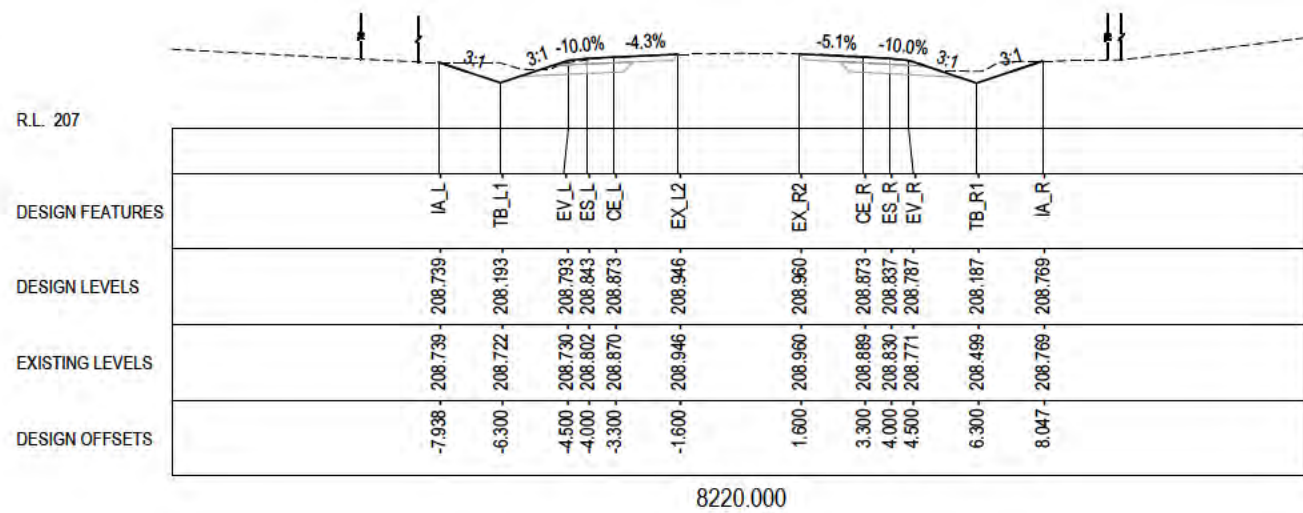


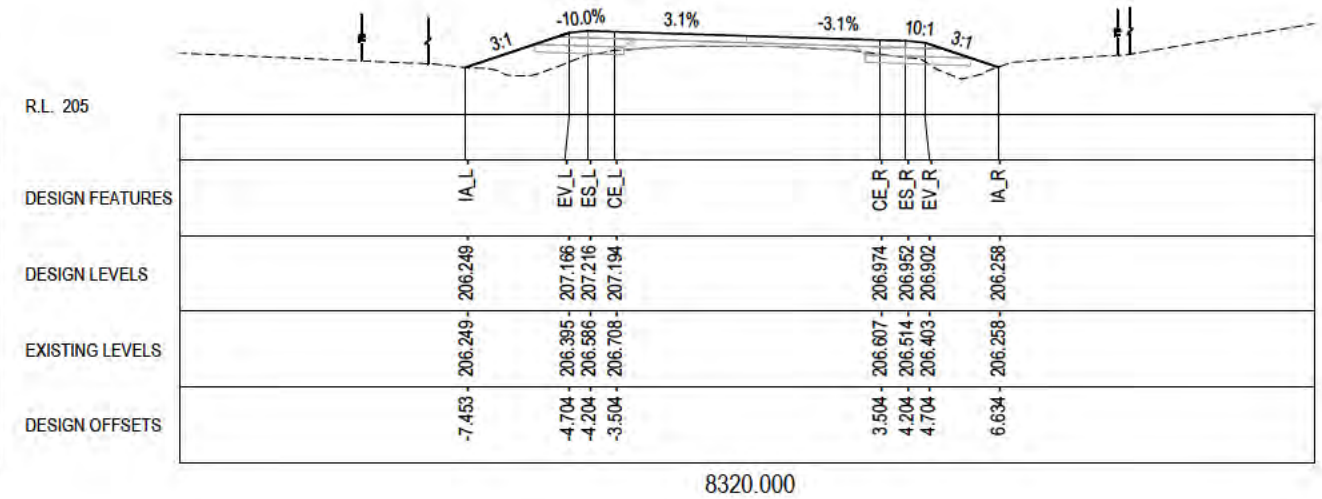
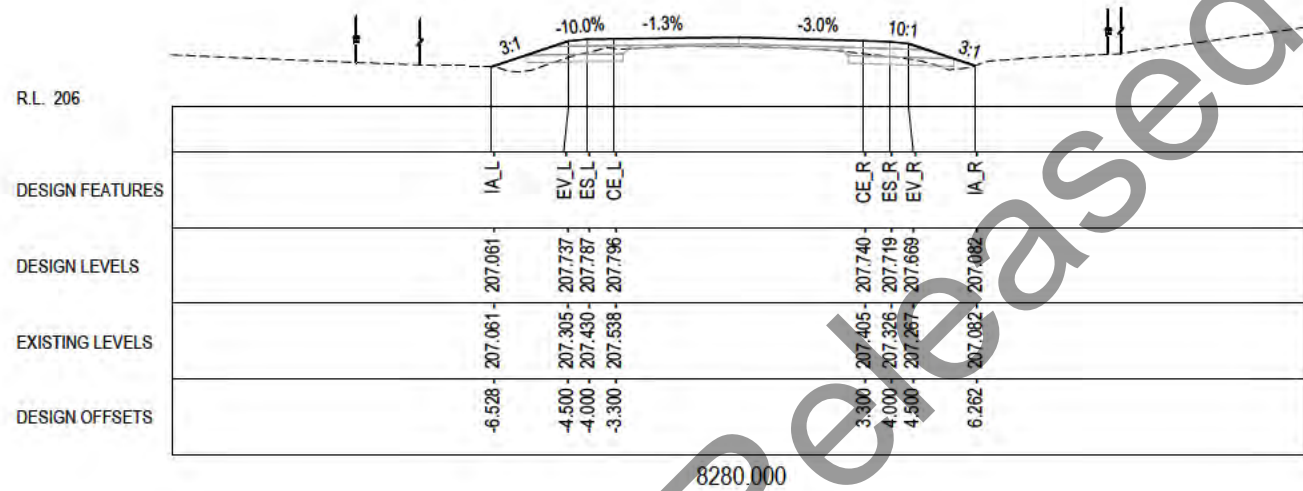
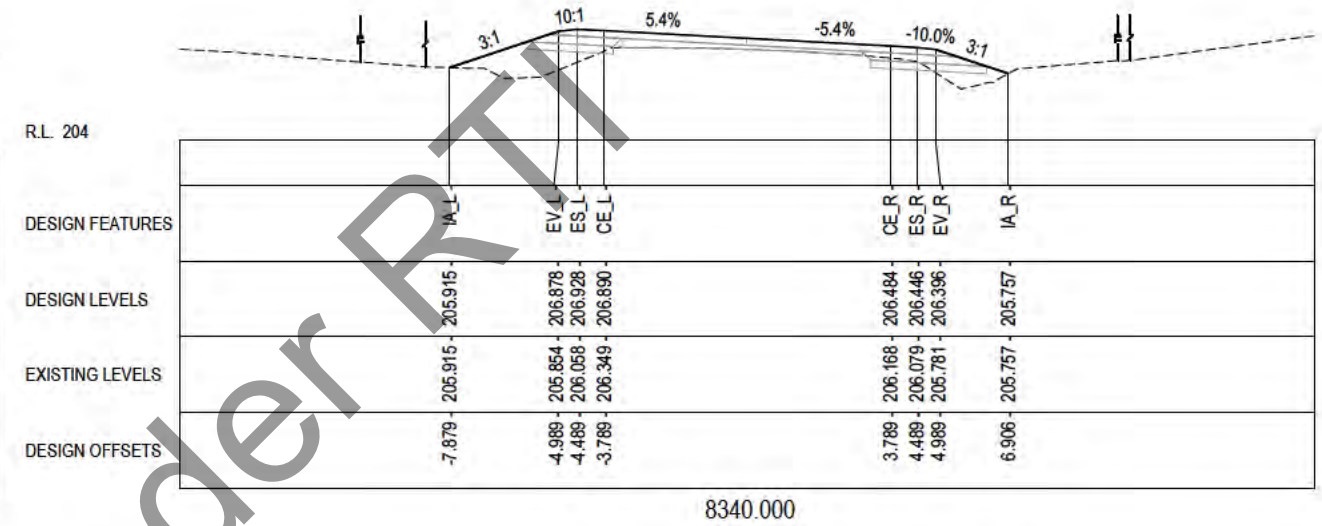
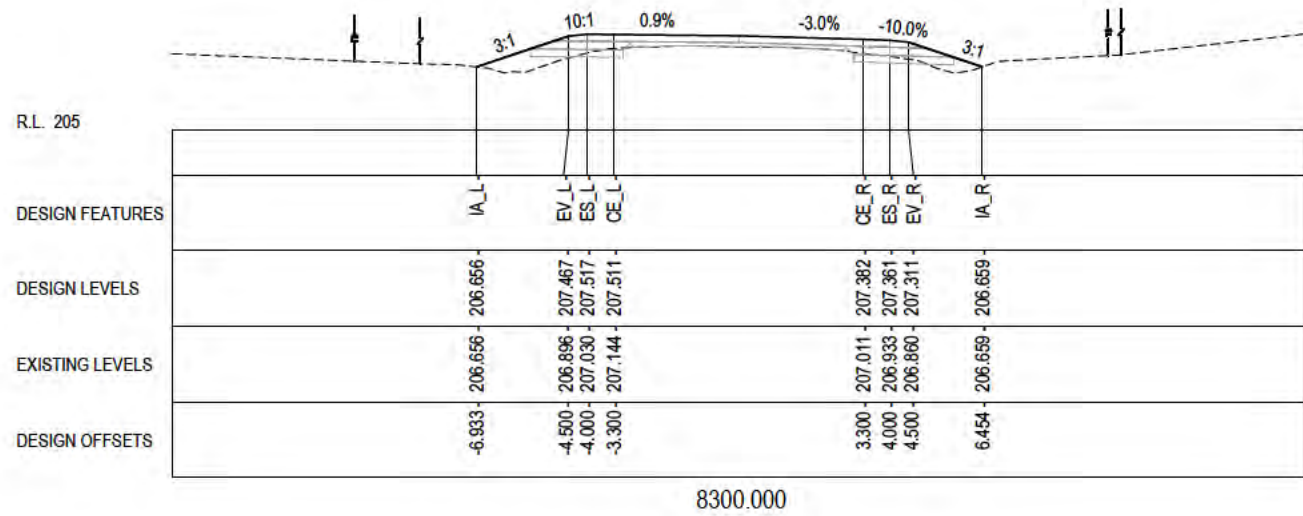


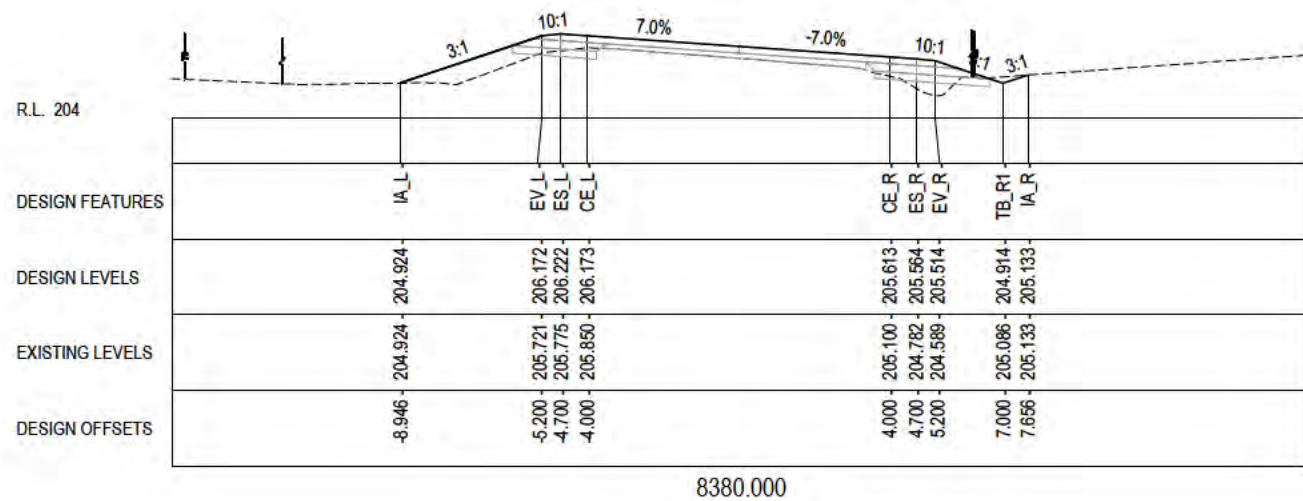




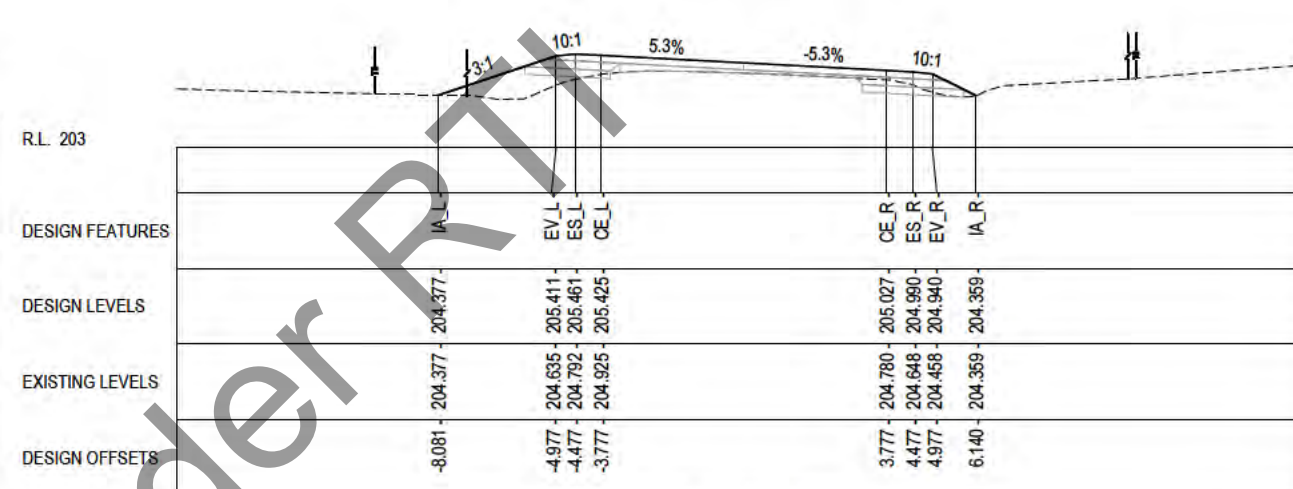




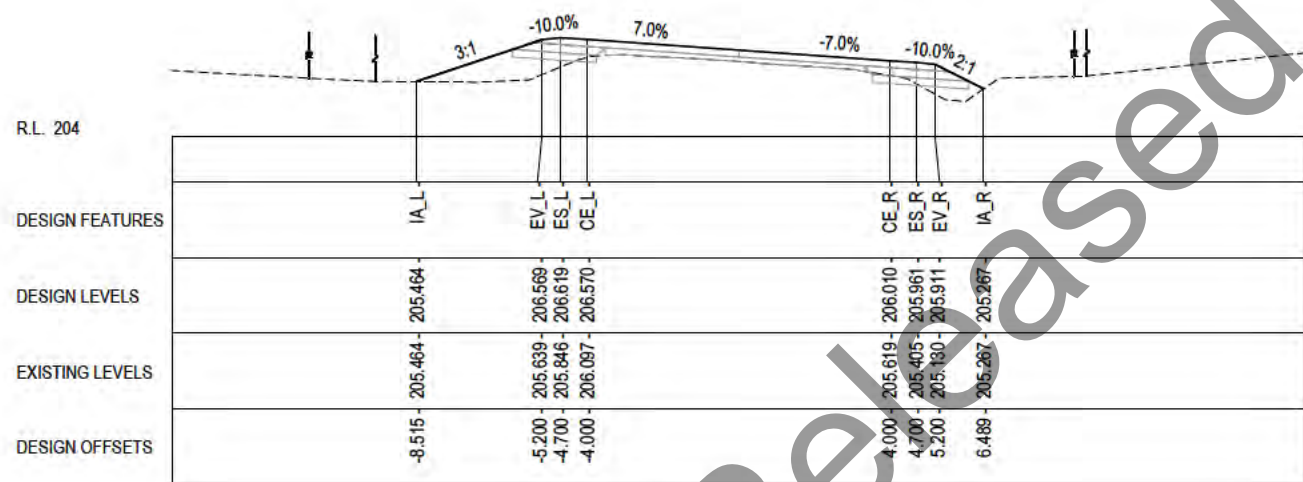




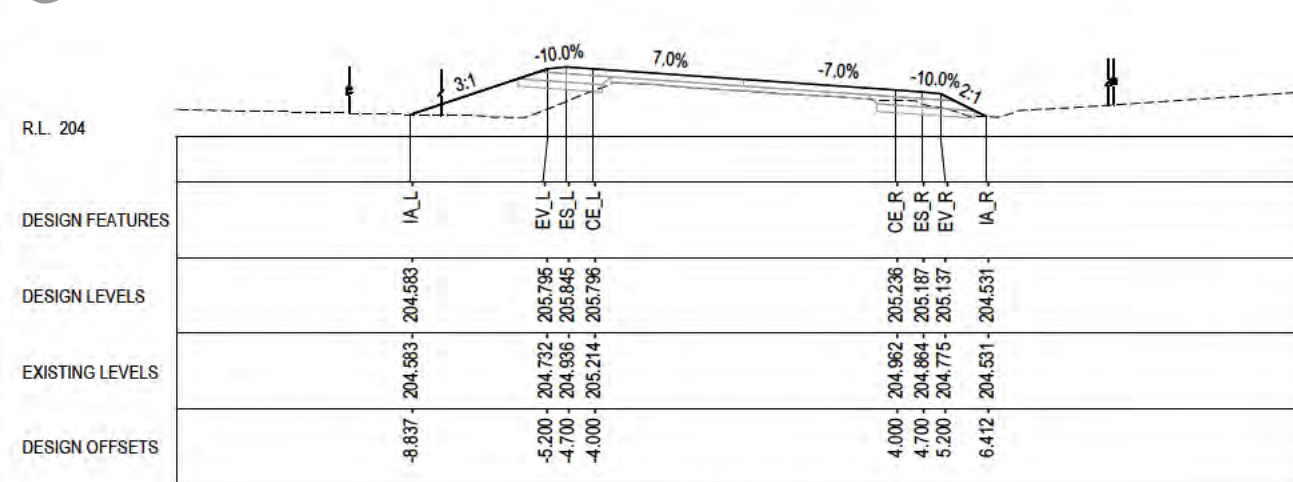
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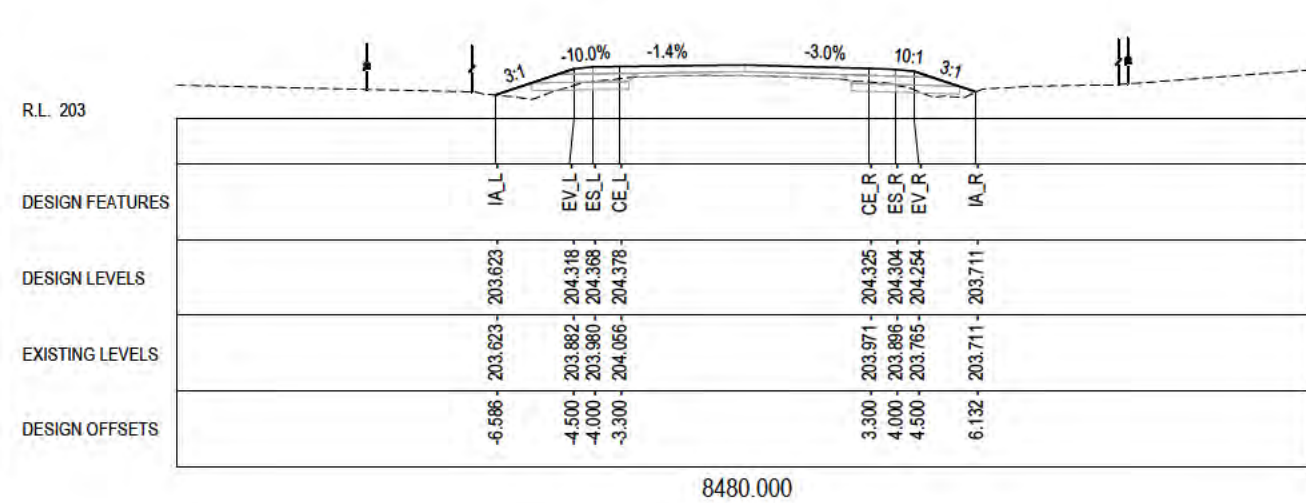
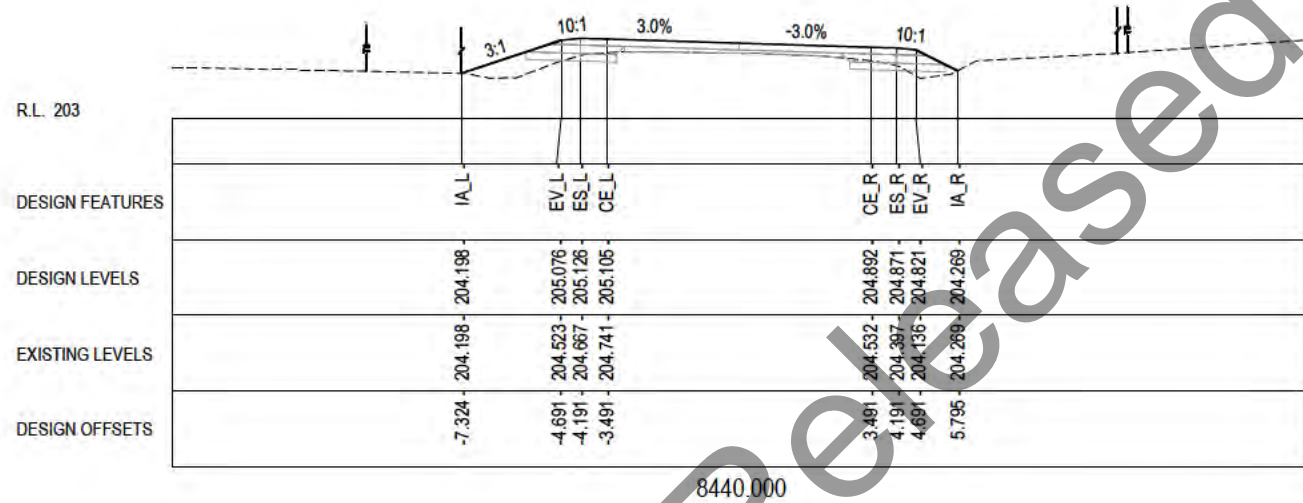
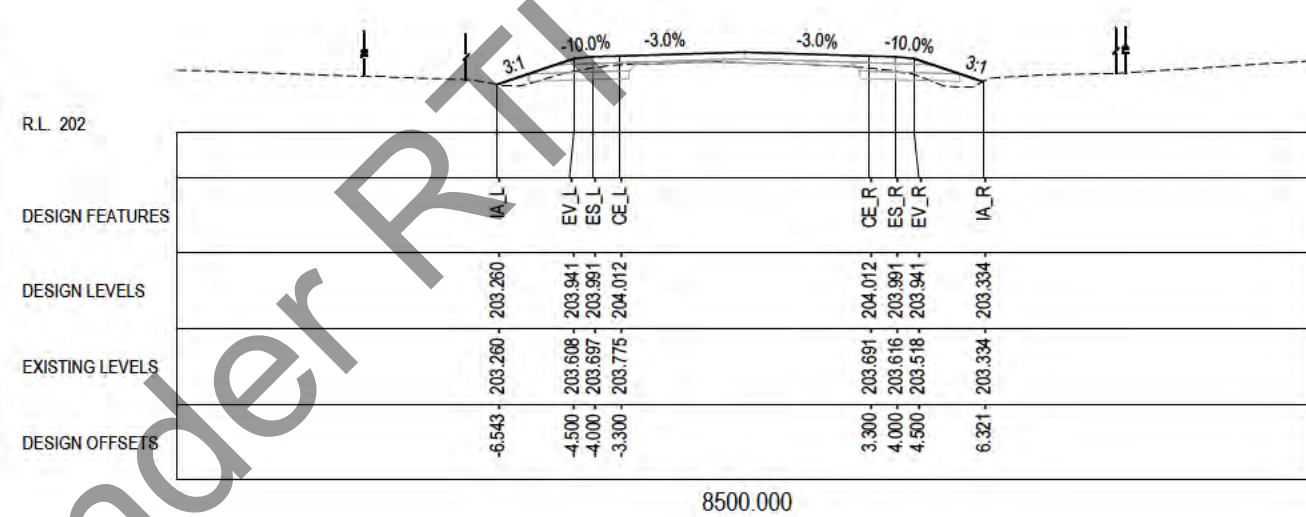
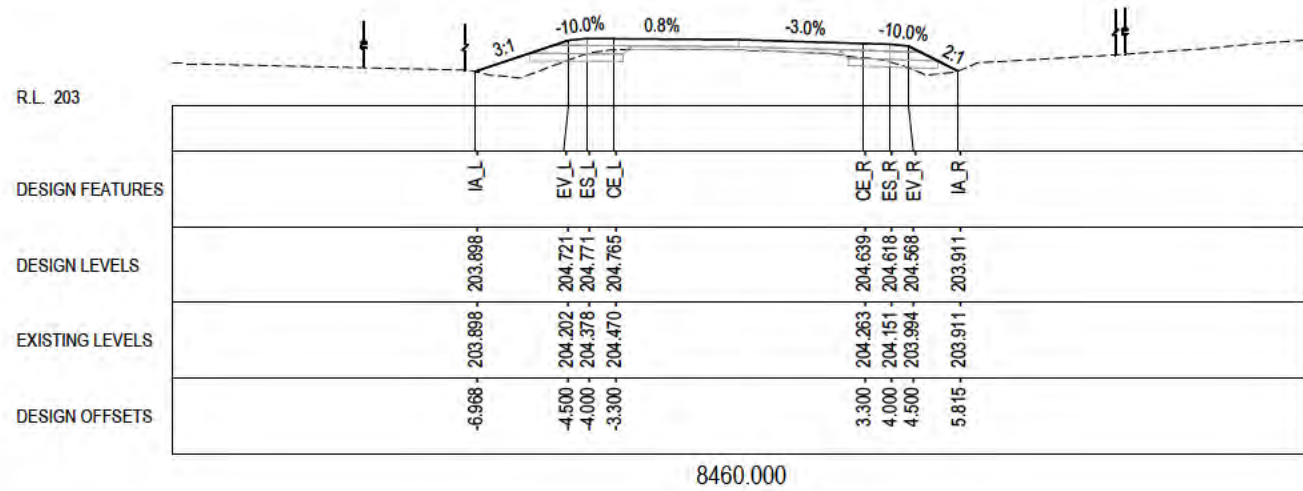


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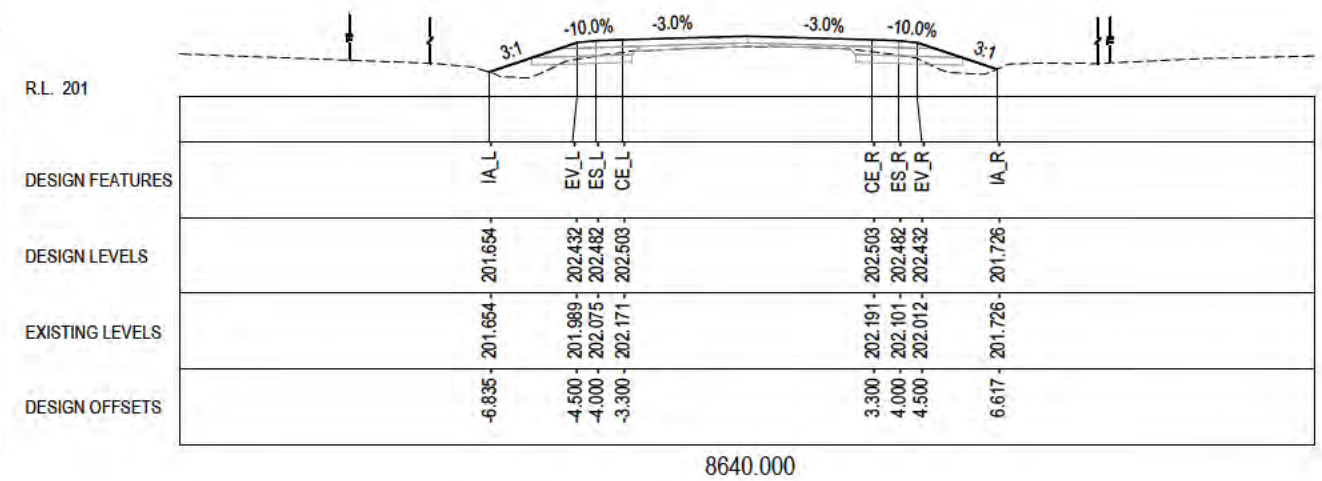
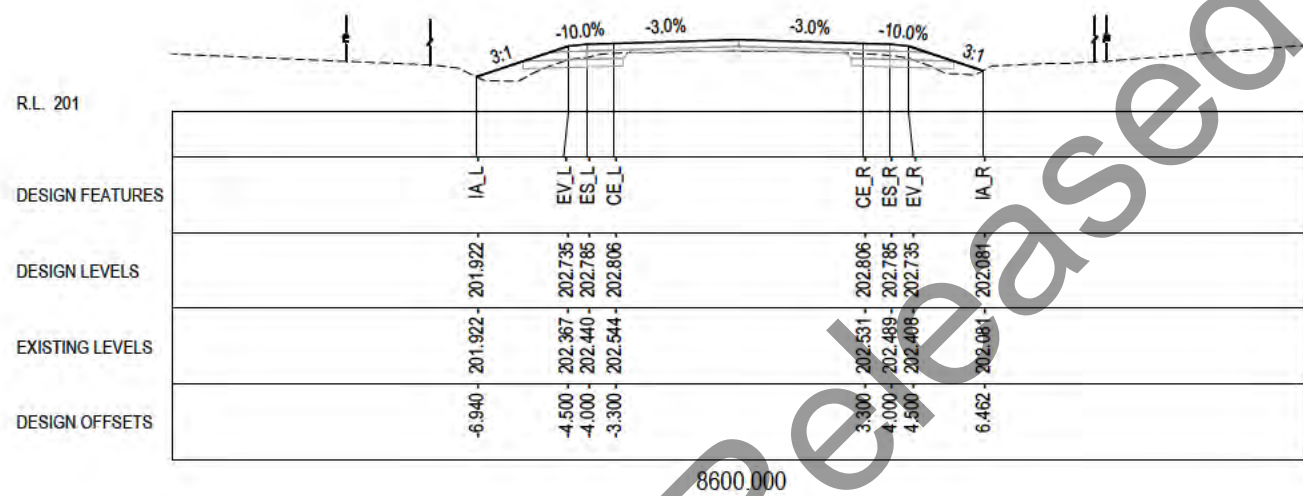
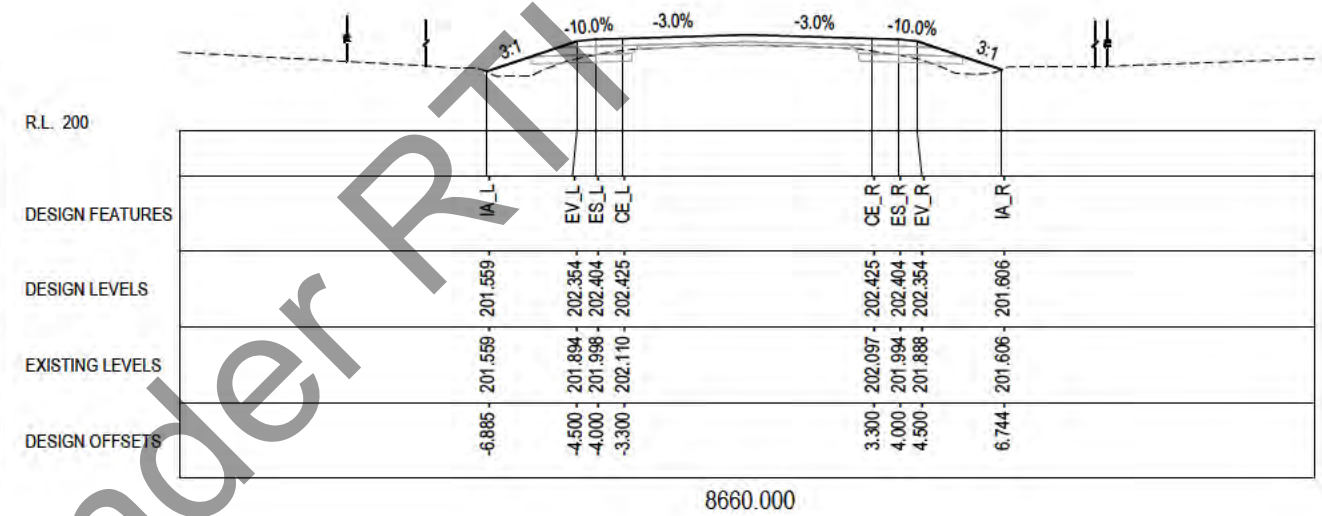
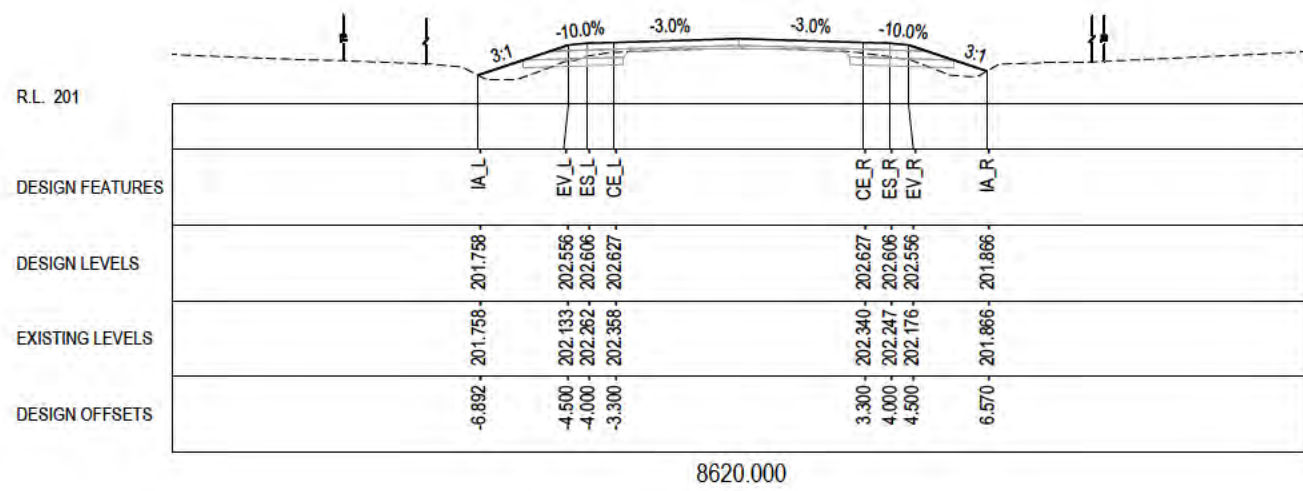


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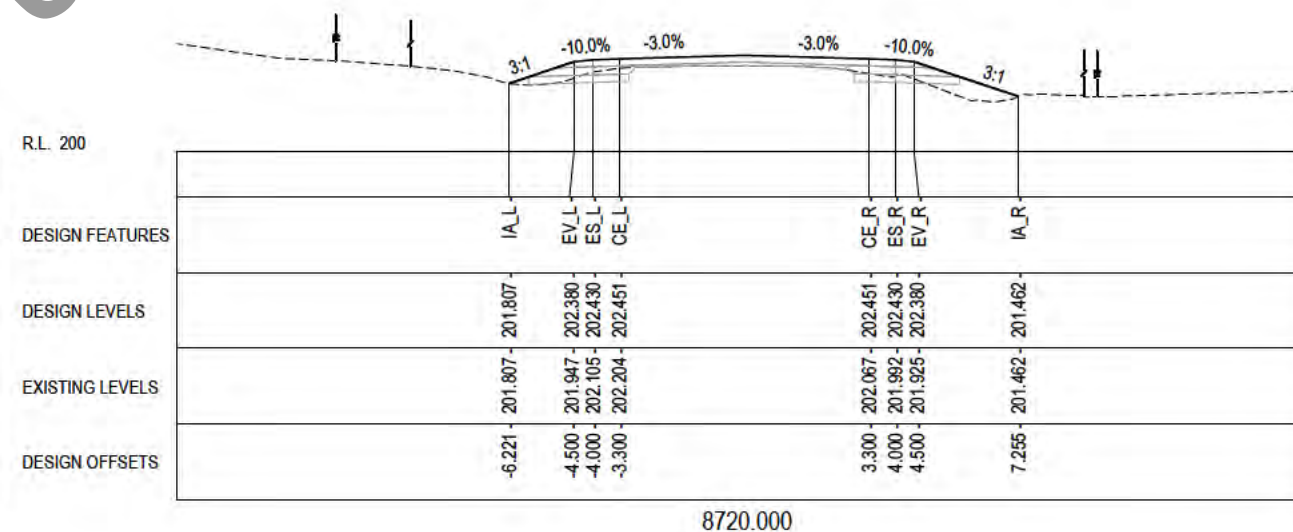
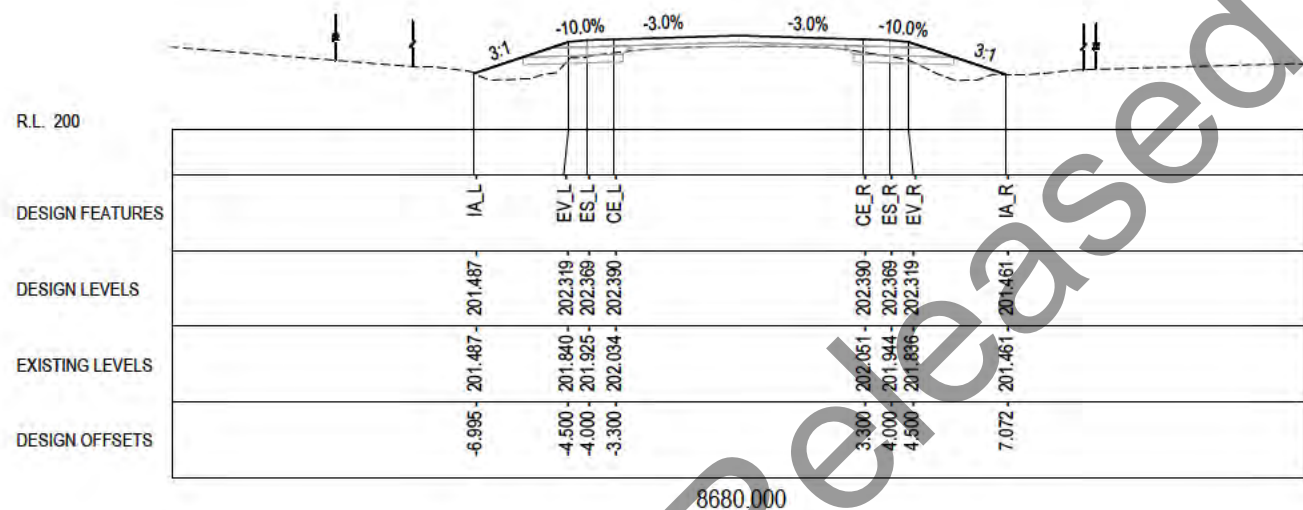
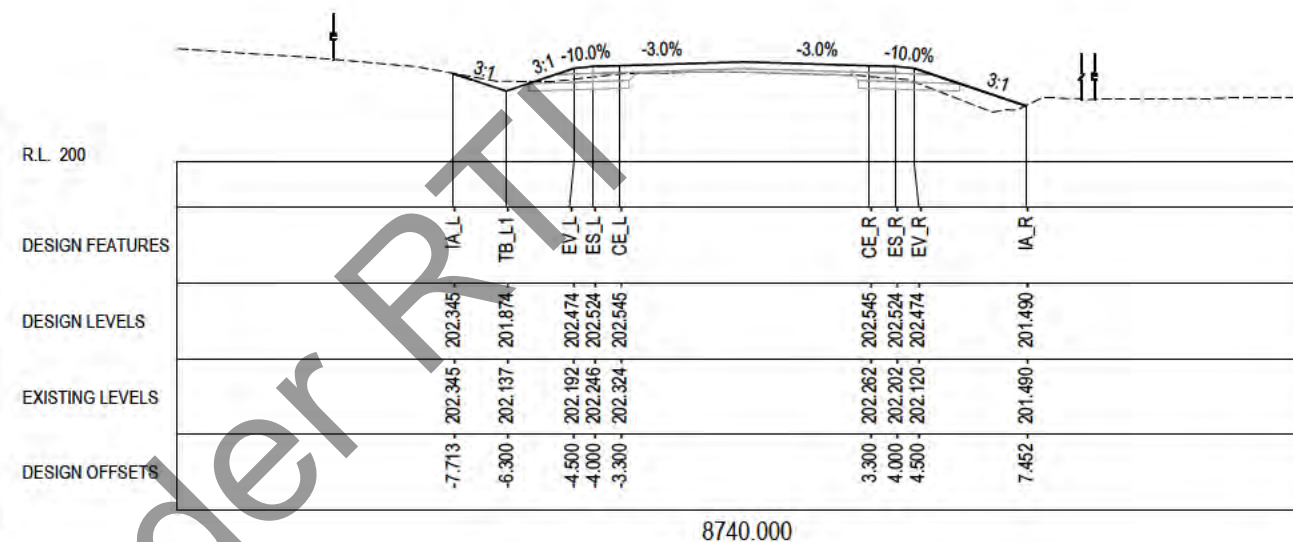
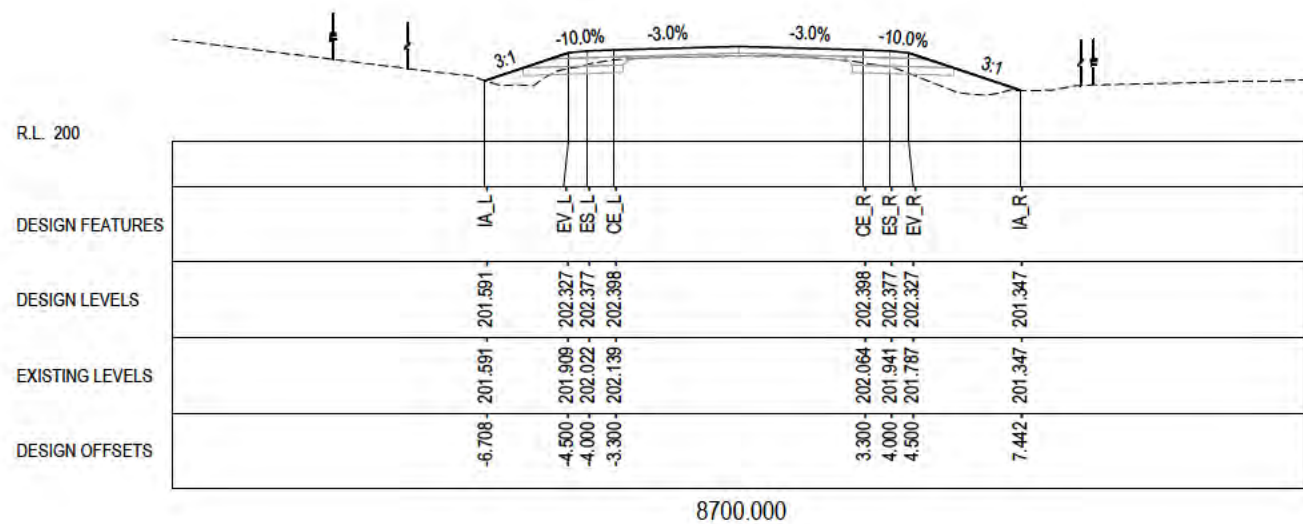
				Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2) CROSS SECTIONS (DESIGN LINE CL94) - DRG 94		CONTRACT No. 3521	DRAWING S-P 20.2000-00-CIV-DRG-2904	PRINTED DATE 28-Jul-23, 2:12 PM	SHEET No. 2904
PRELIMINARY DESIGN L.J.B. 28/07/2023				REGISTRATION NUMBER A1701.002		REVISION A			
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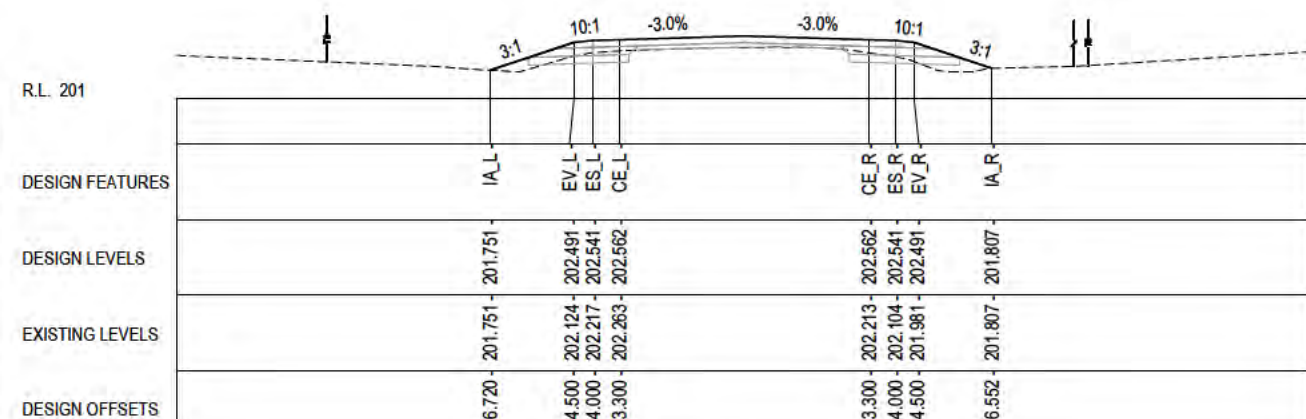
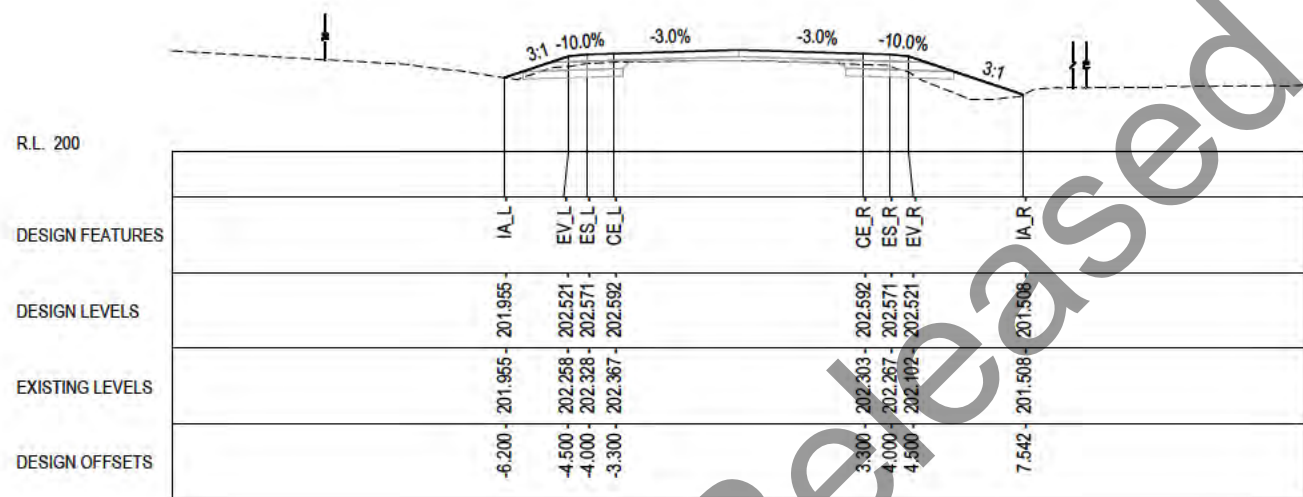
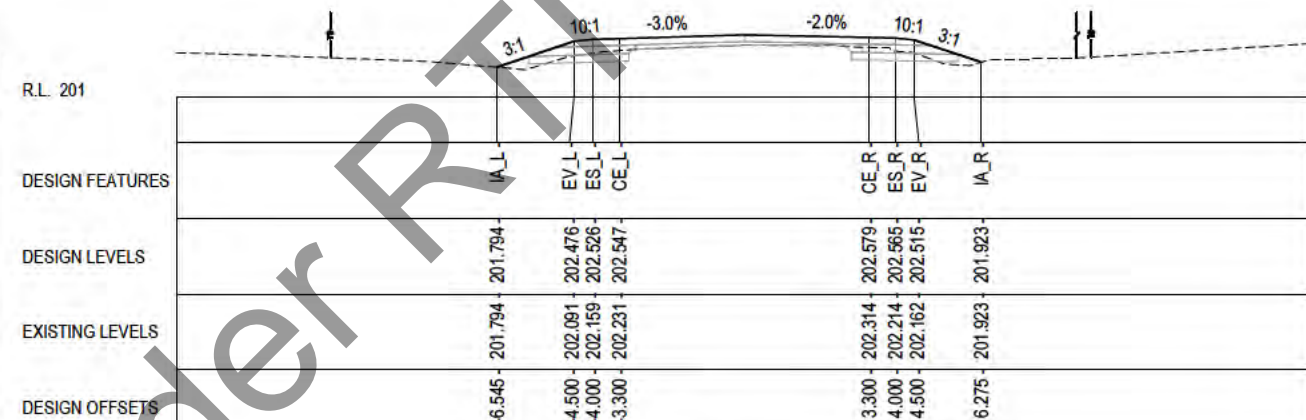
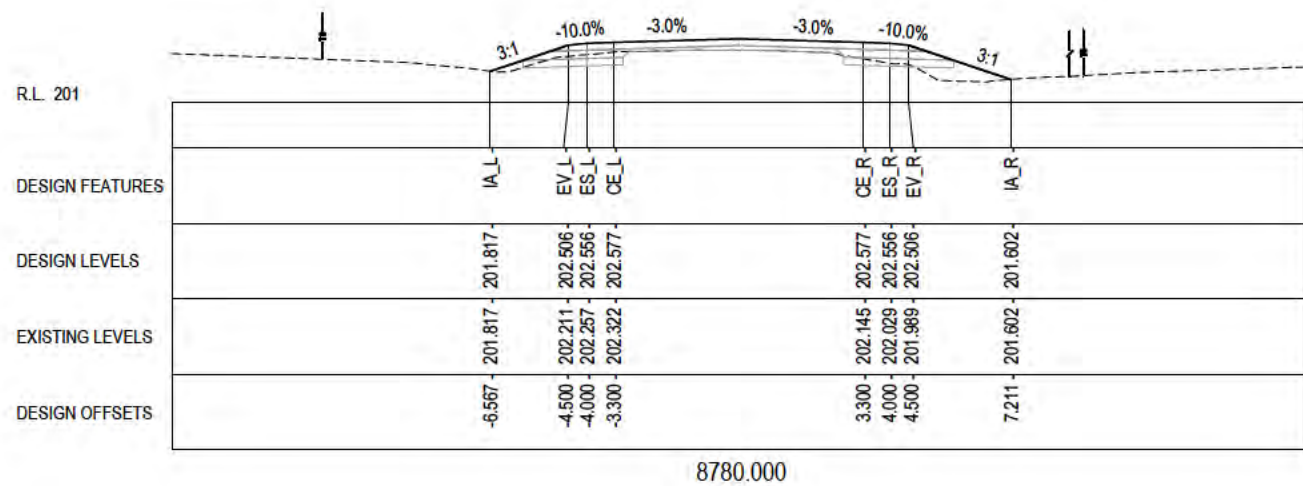


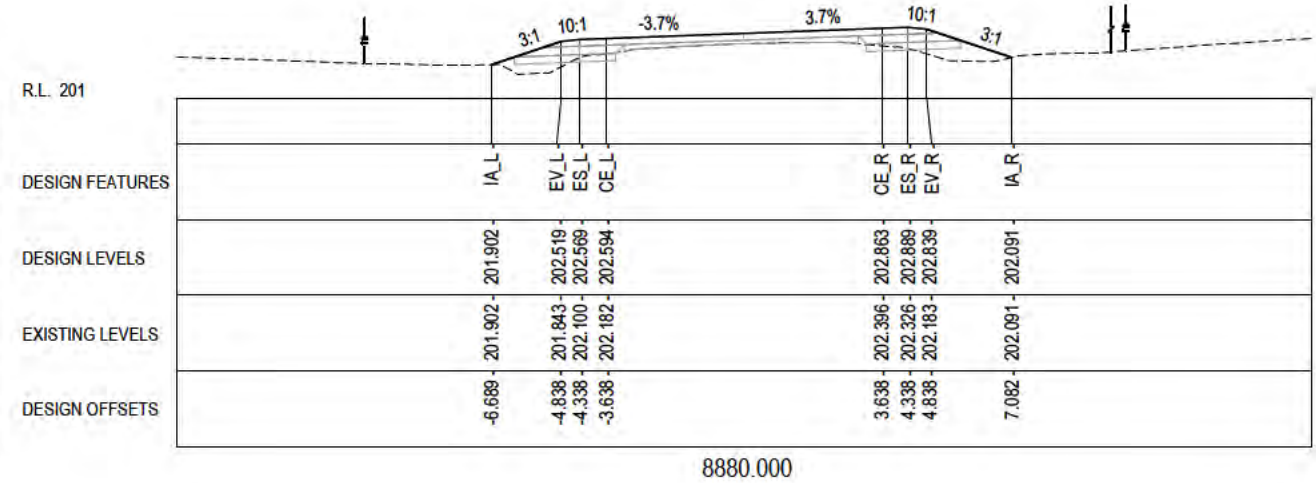
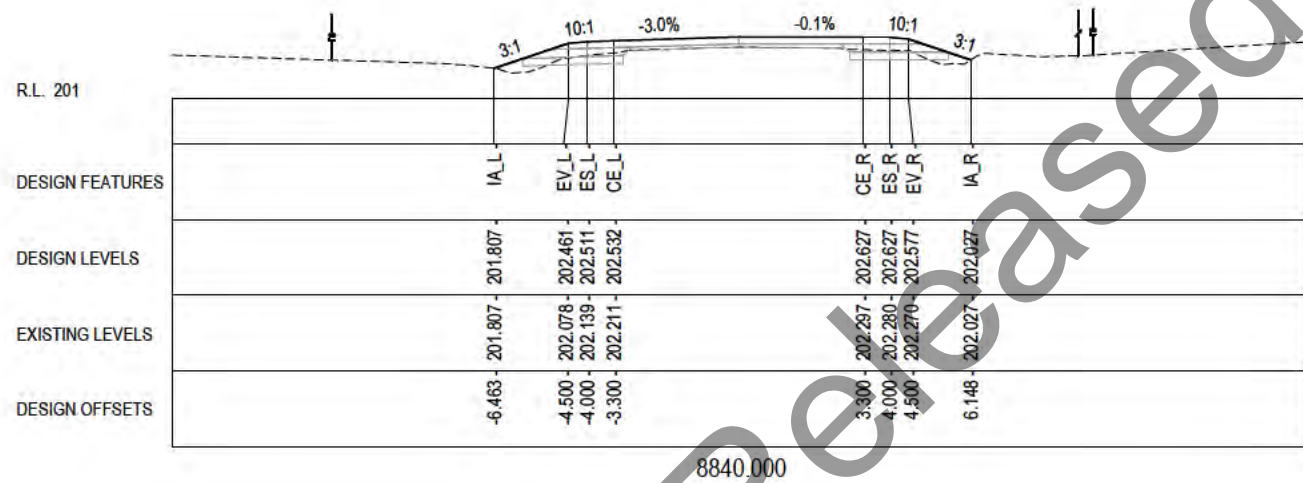
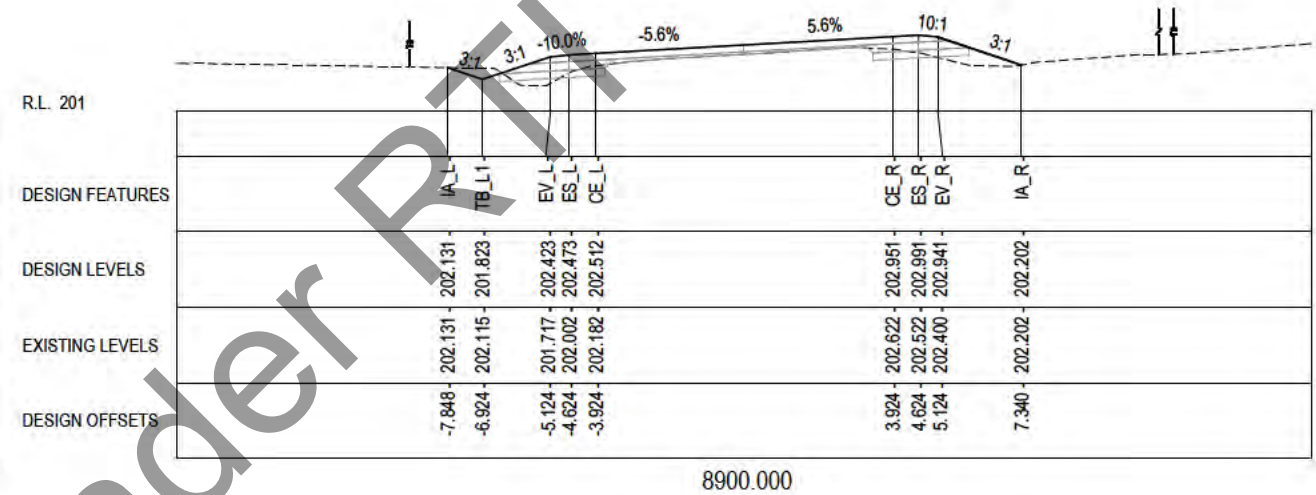
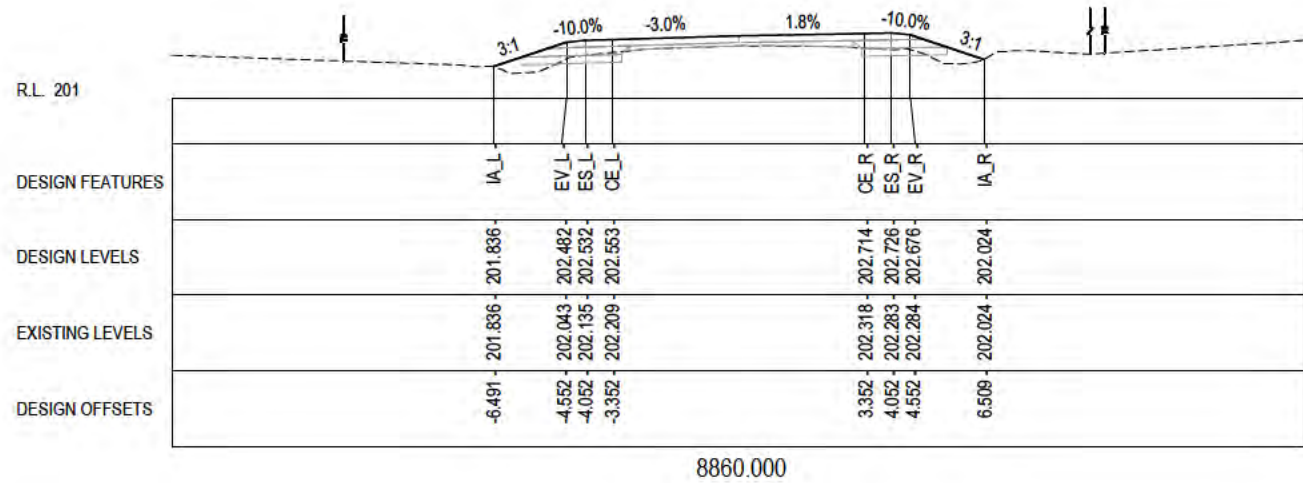
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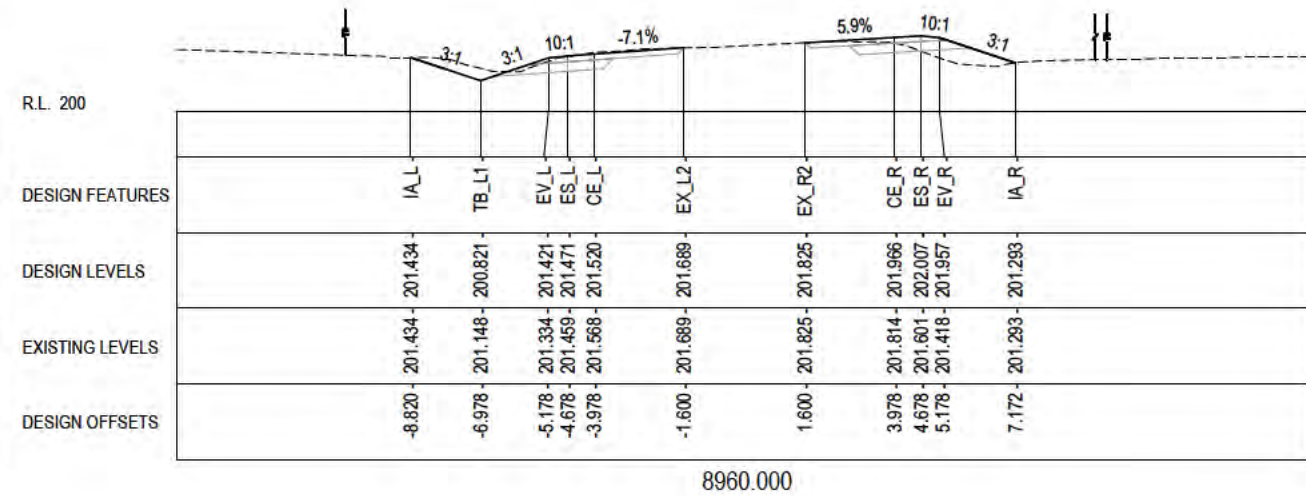
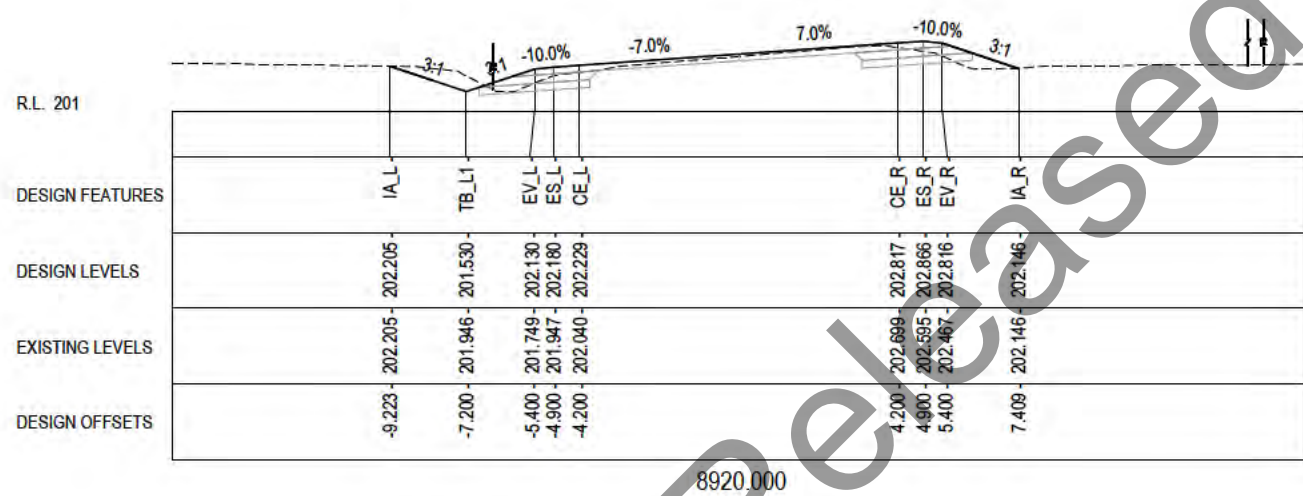
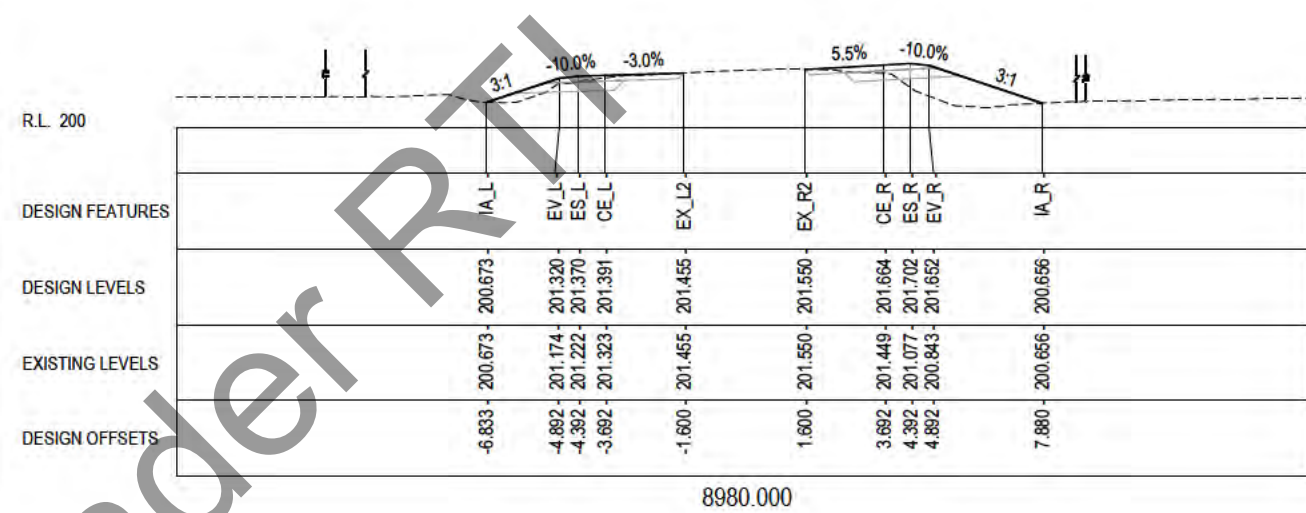
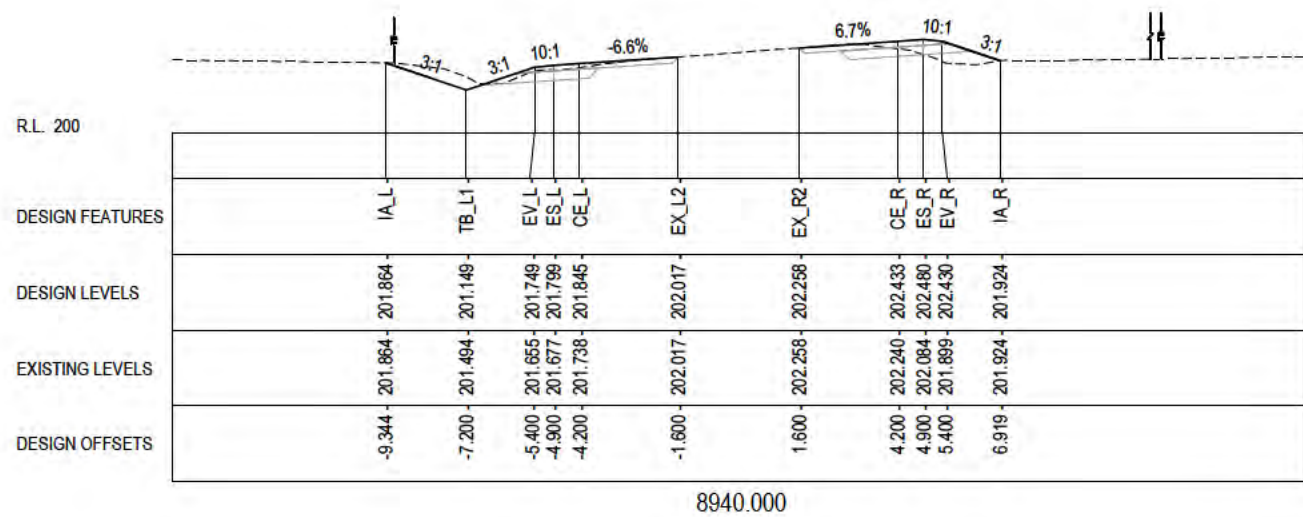


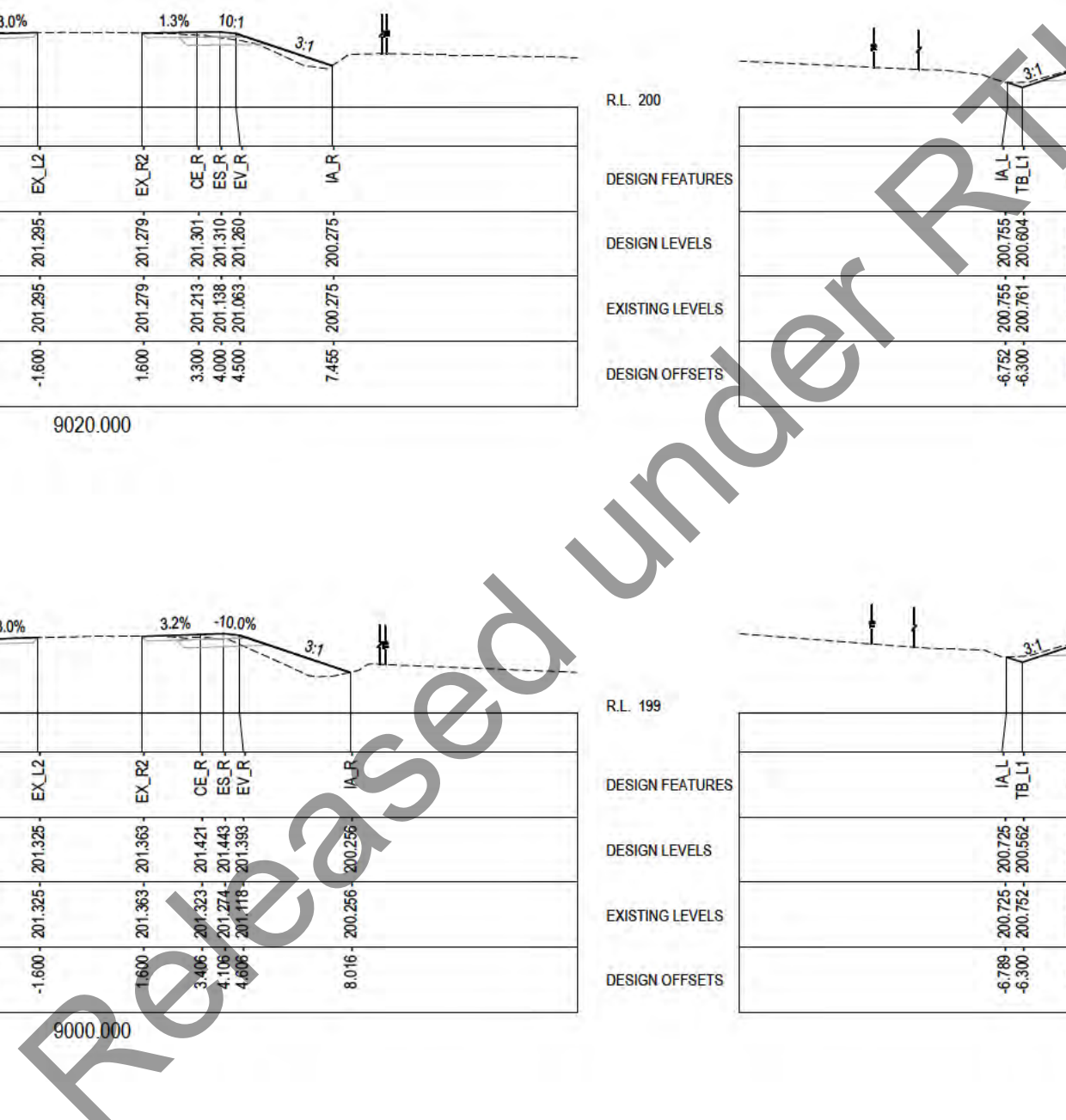
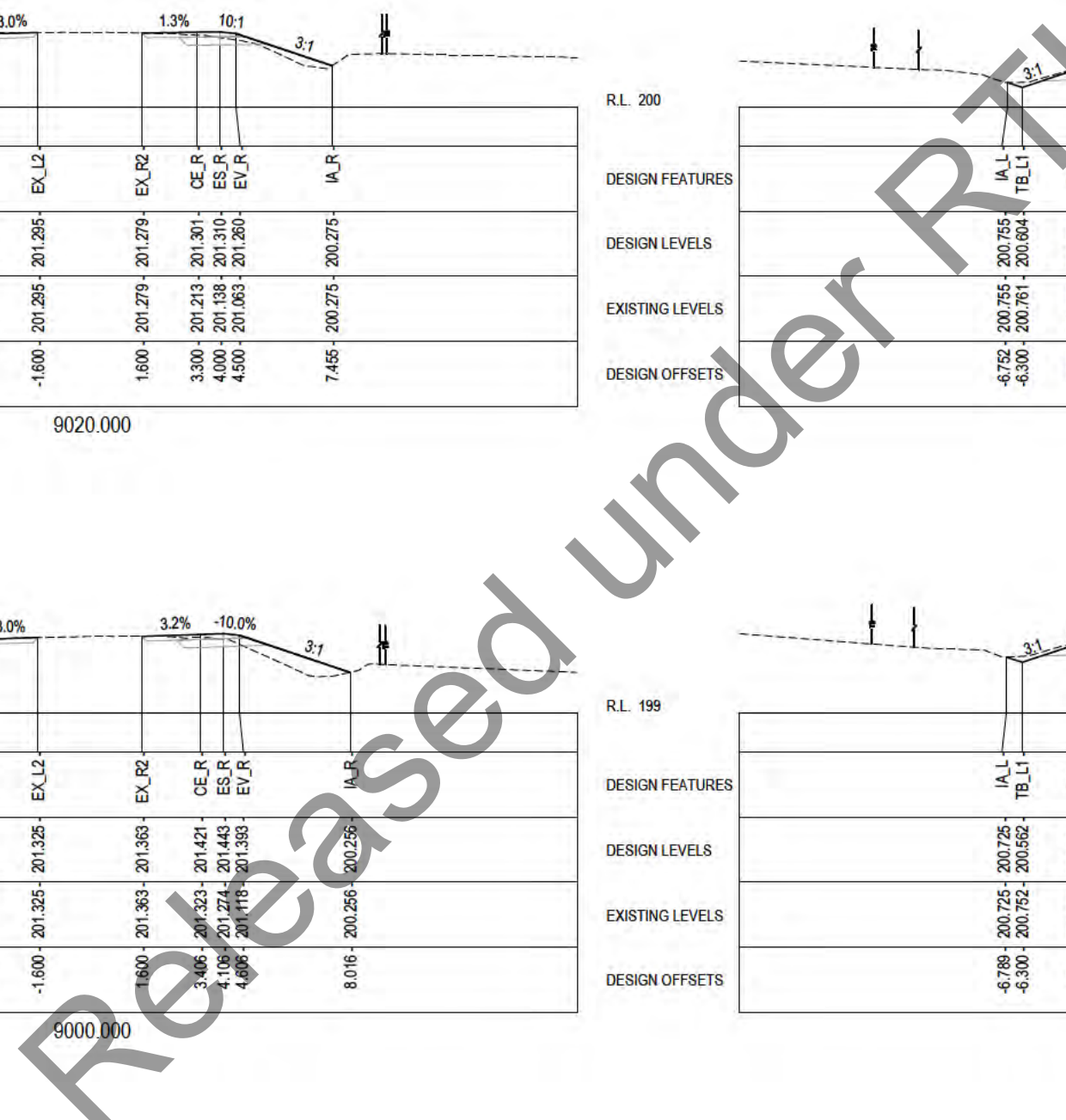
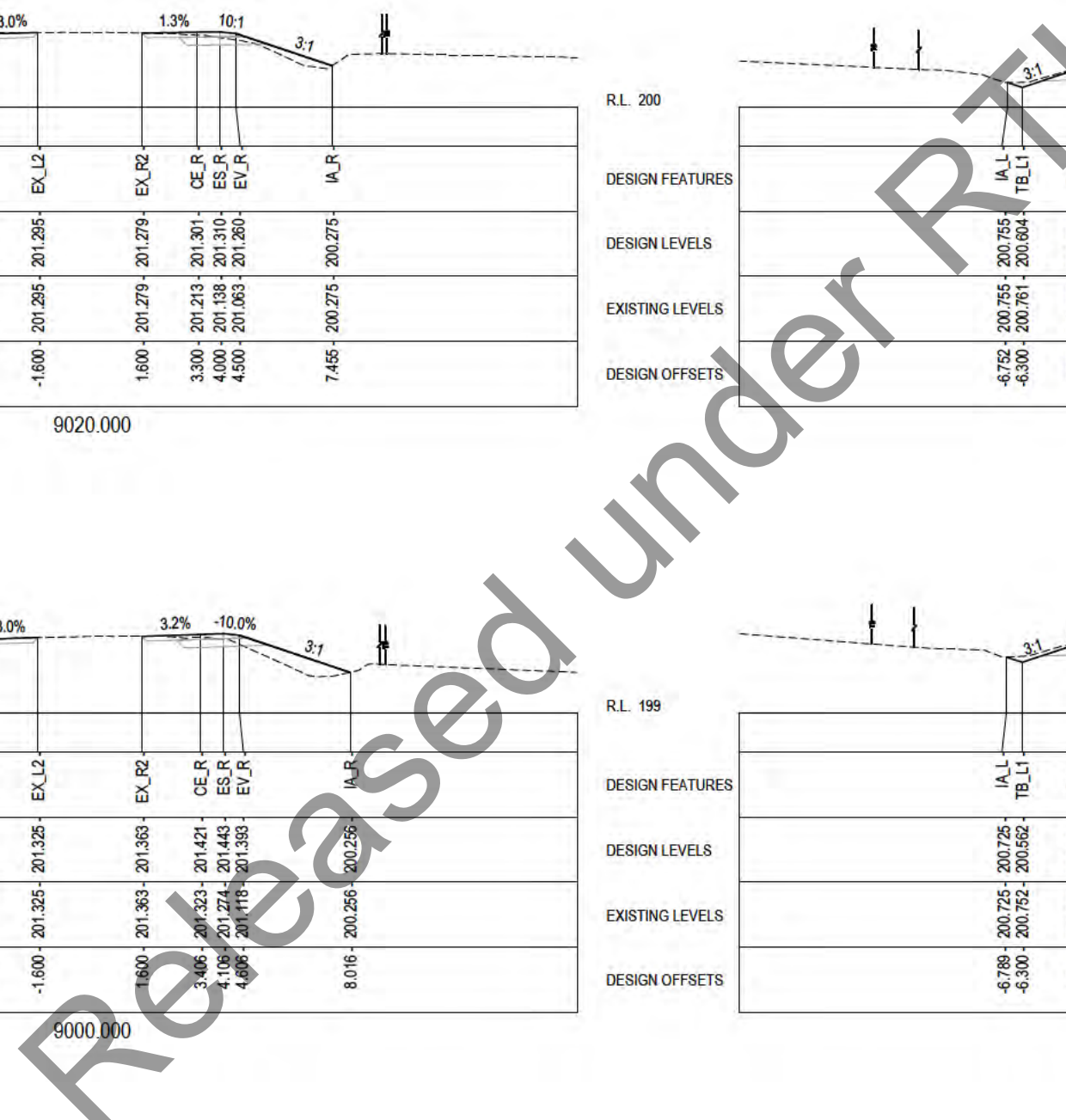
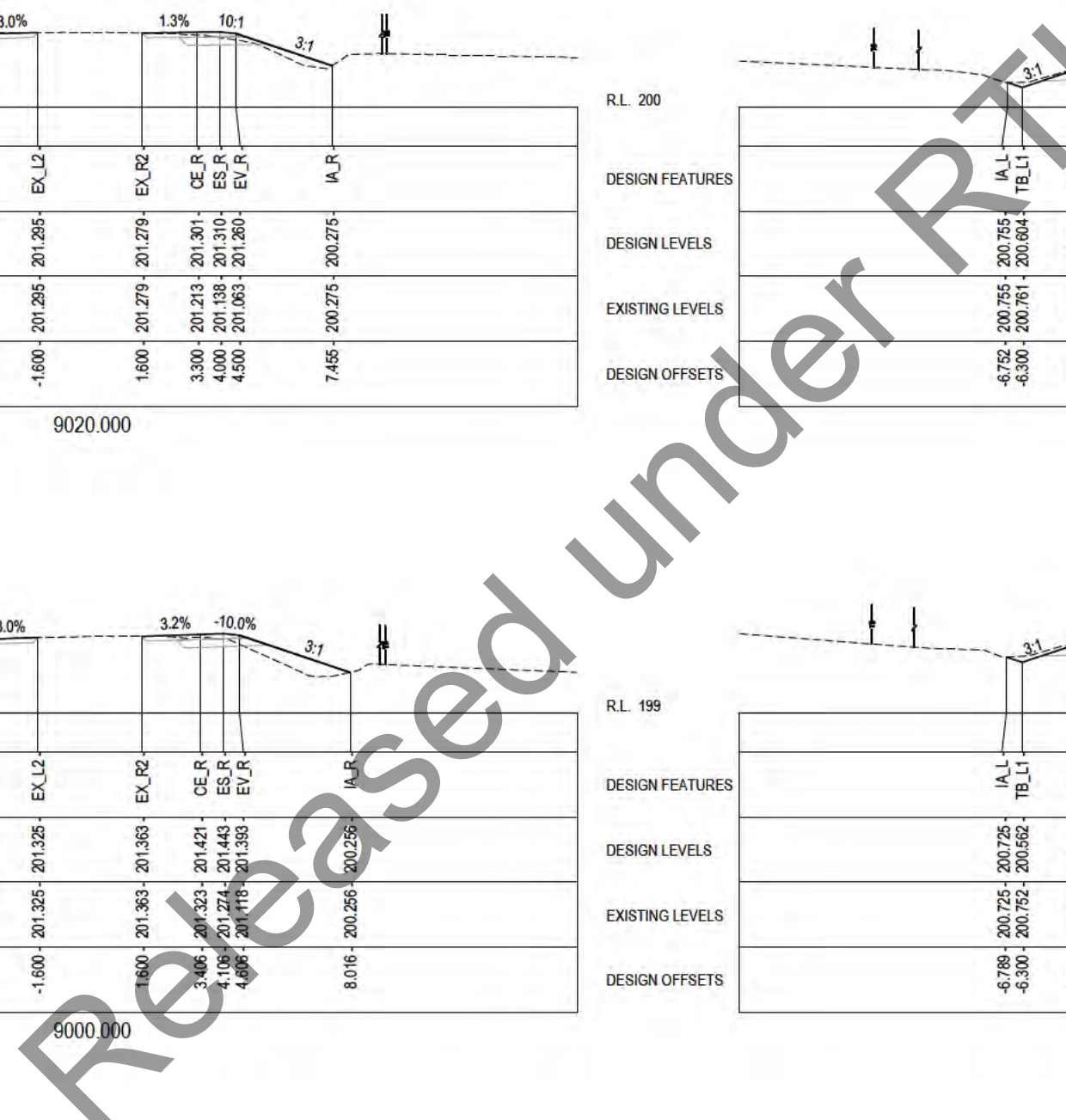
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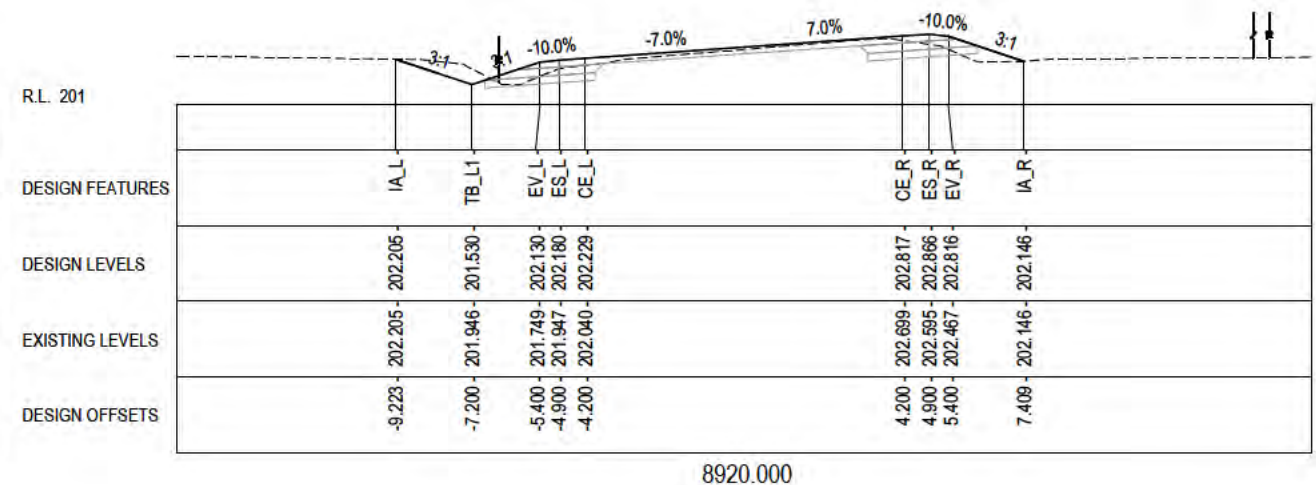
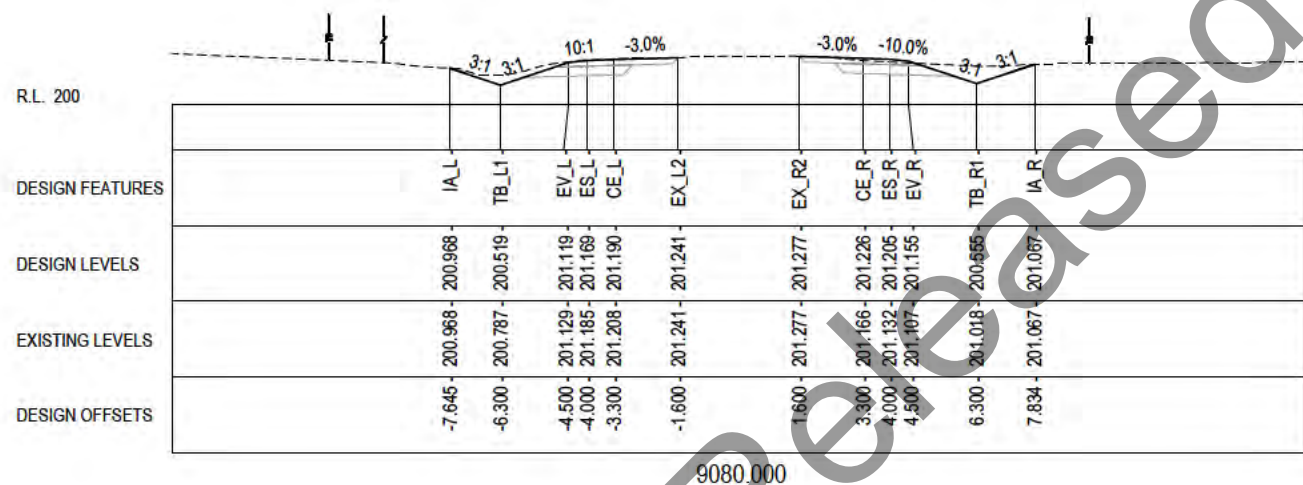
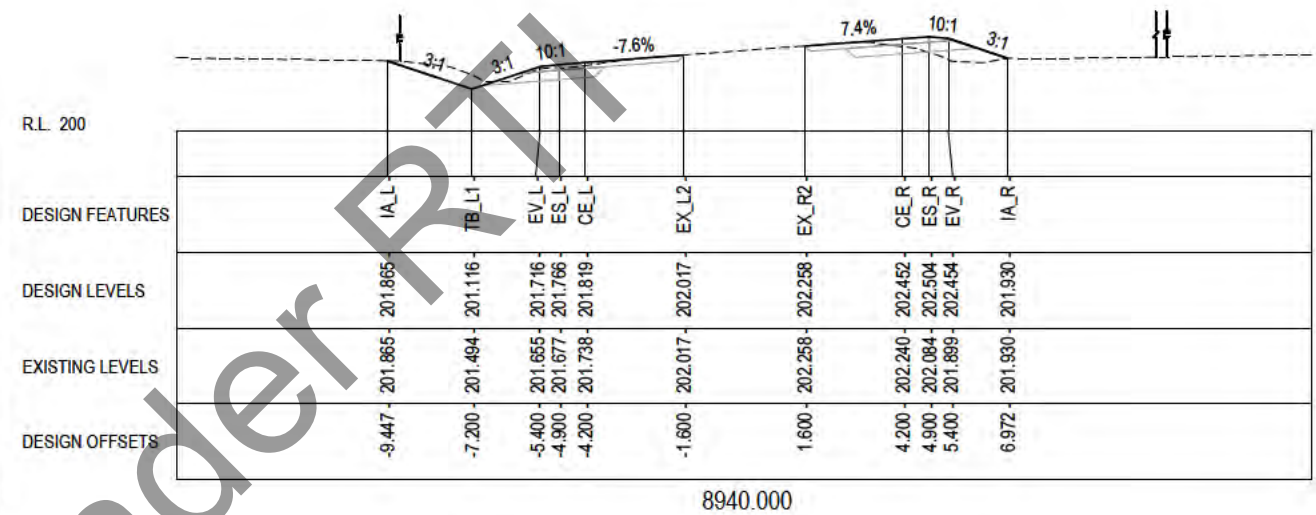
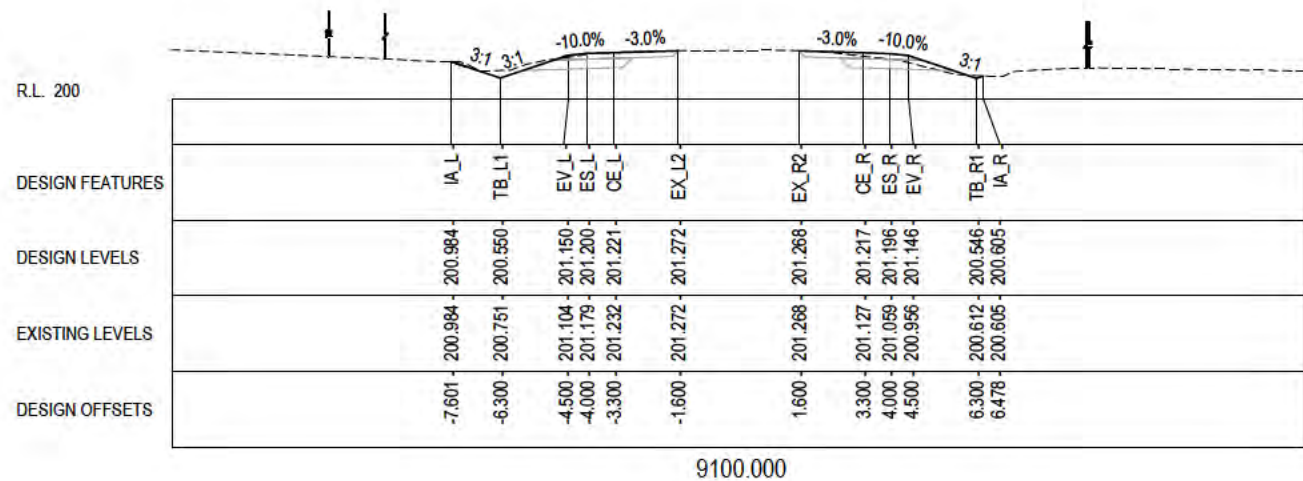


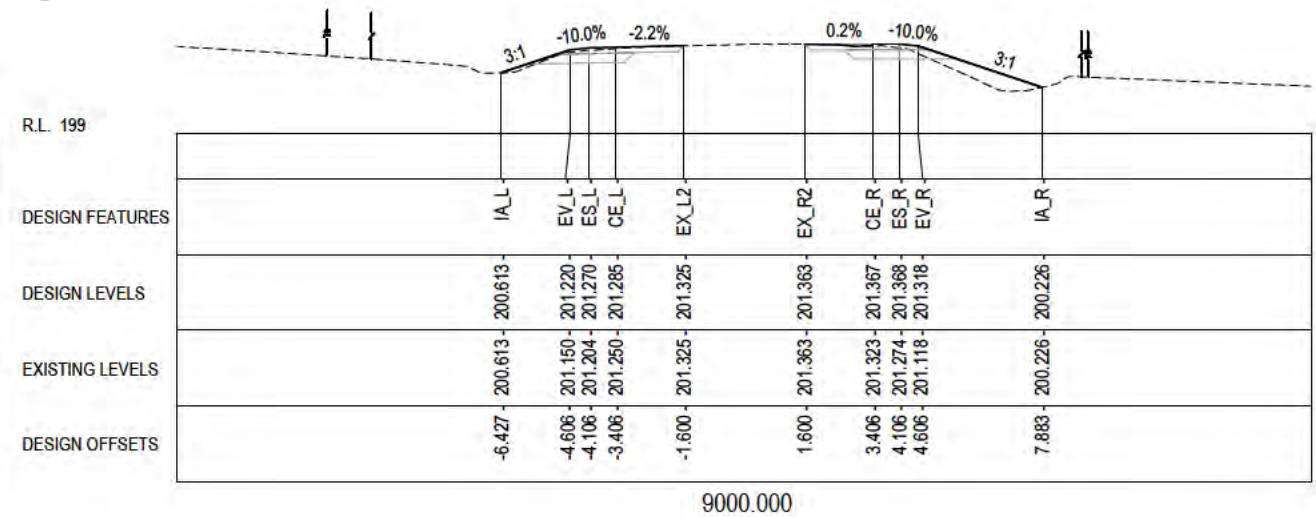
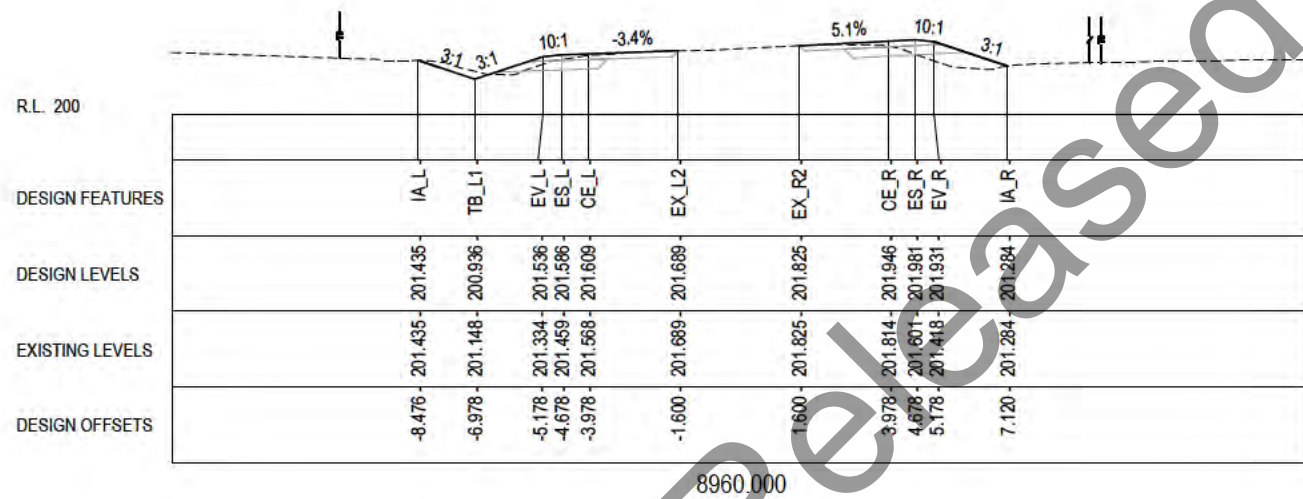
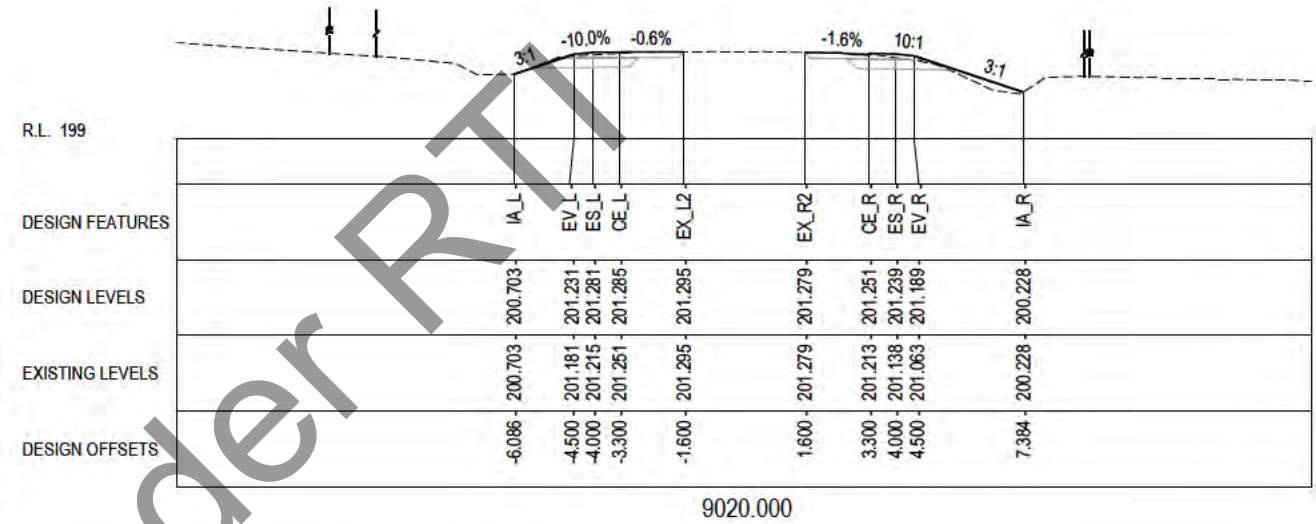
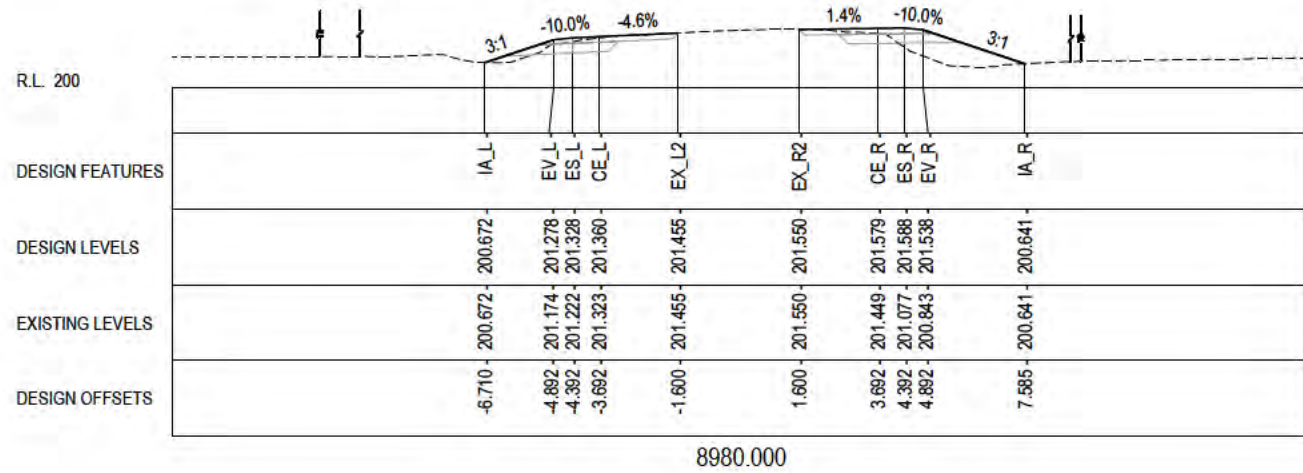


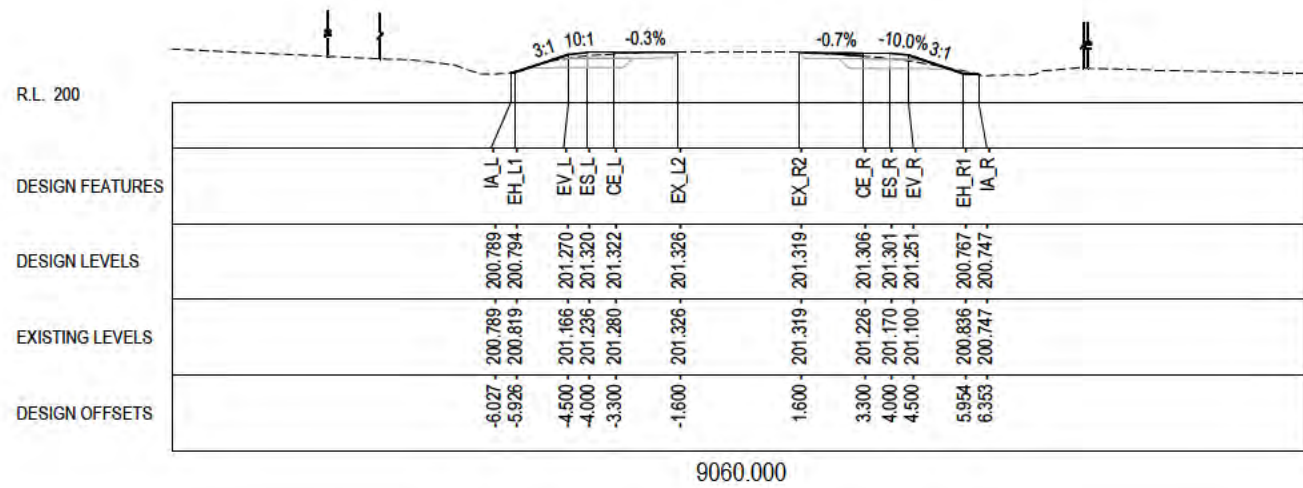




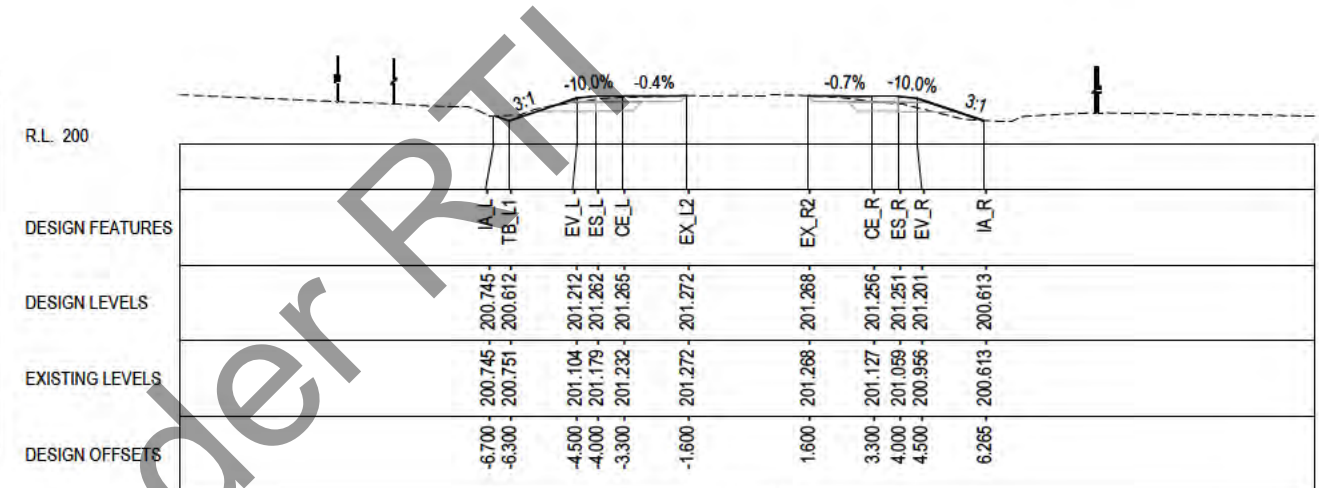
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A	PRELIMINARY DESIGN		L.J.B.	28/07/2023		DESIGNED 		REGISTRATION NUMBER A1701.002				REVISION A
No.	Amendment Description		Initials	Date	REVIEWED 							
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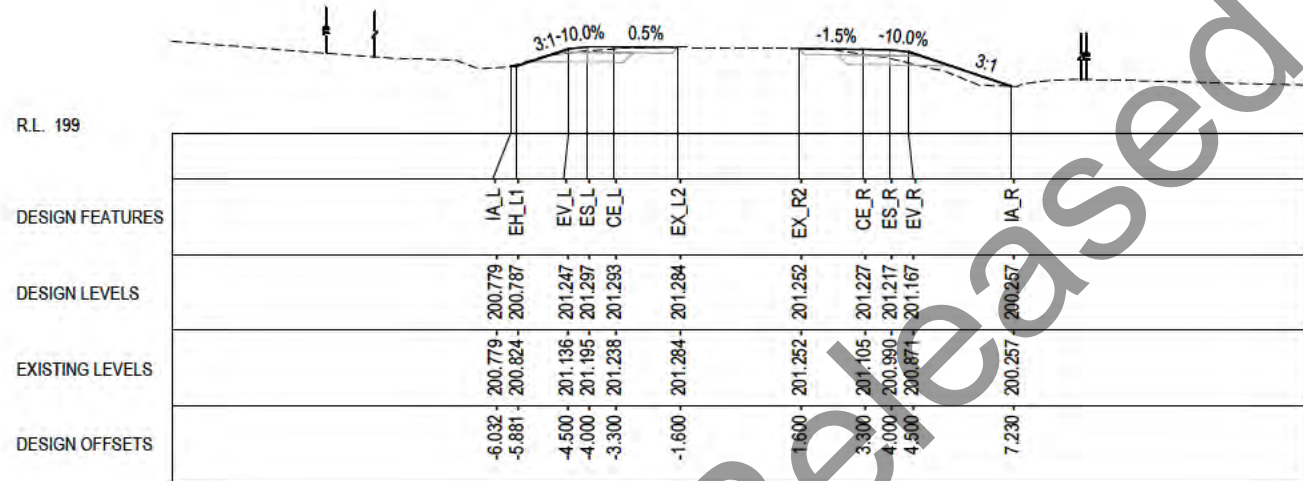




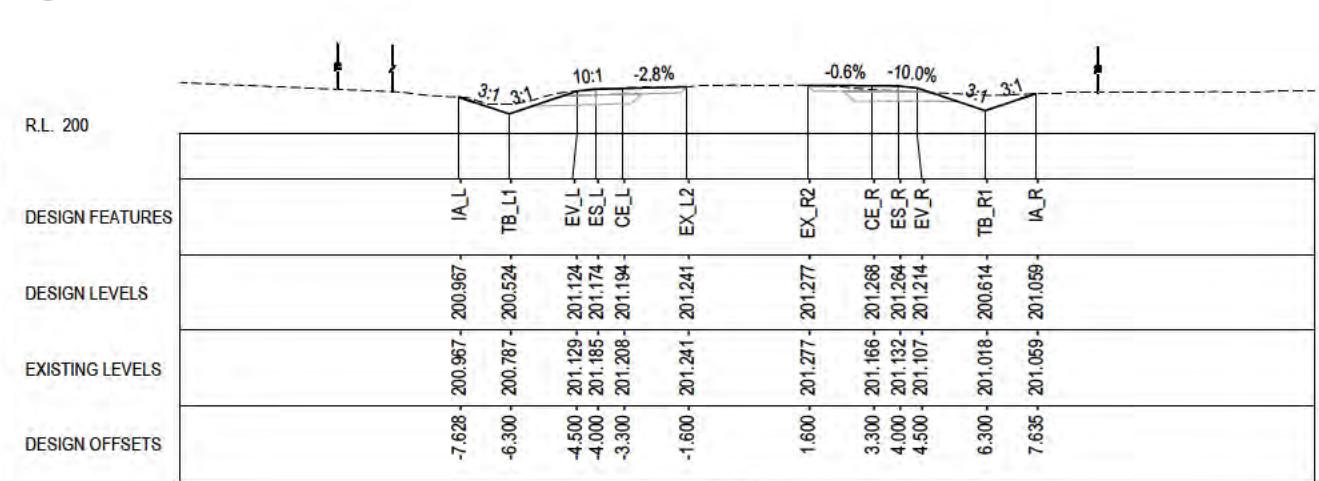
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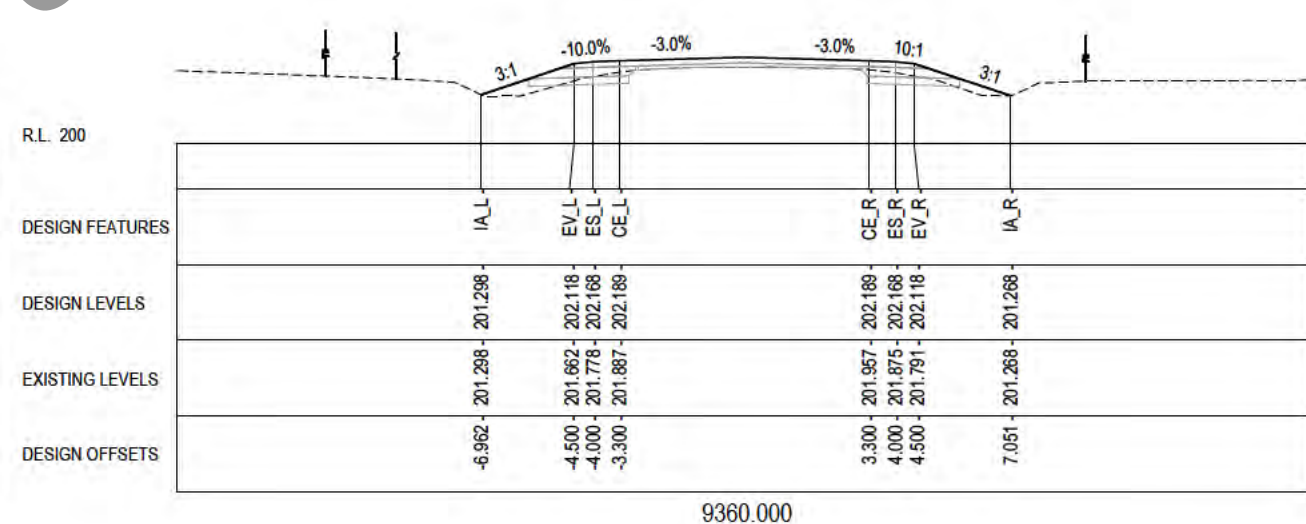
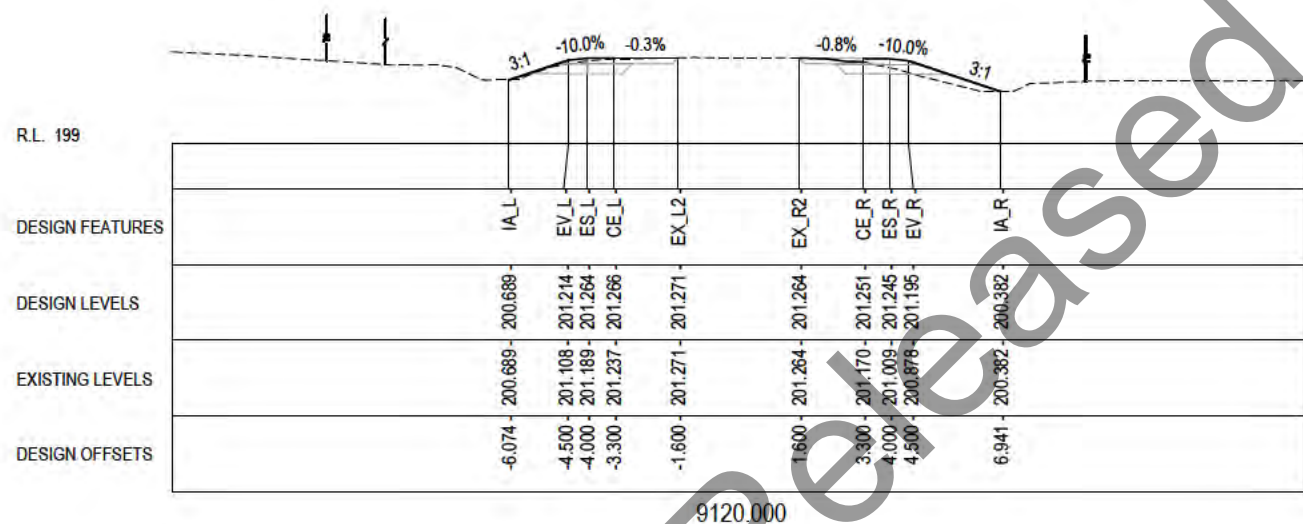
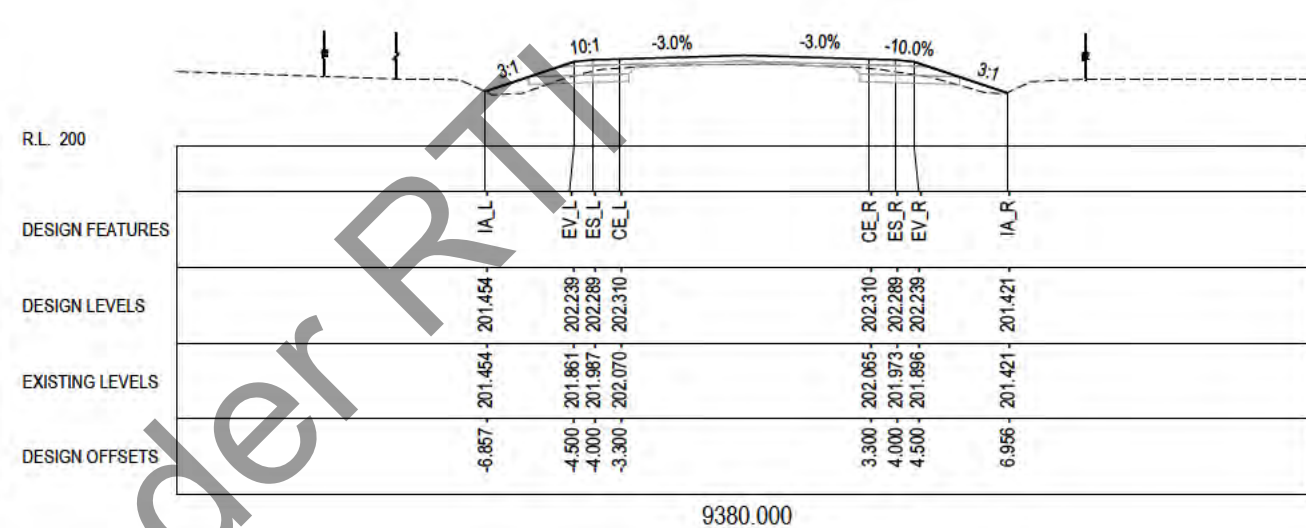
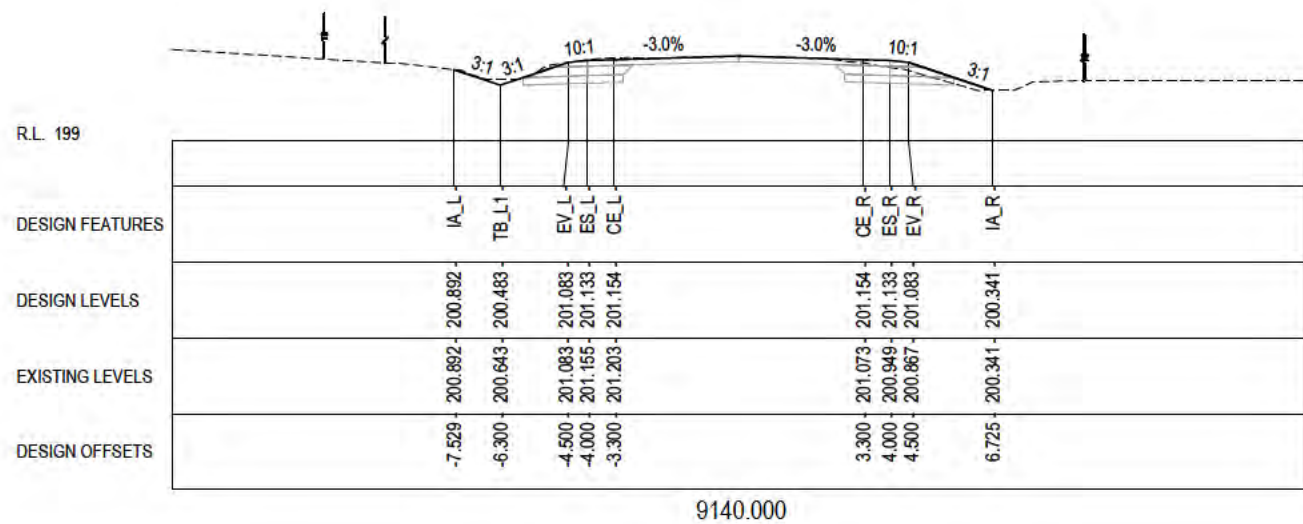


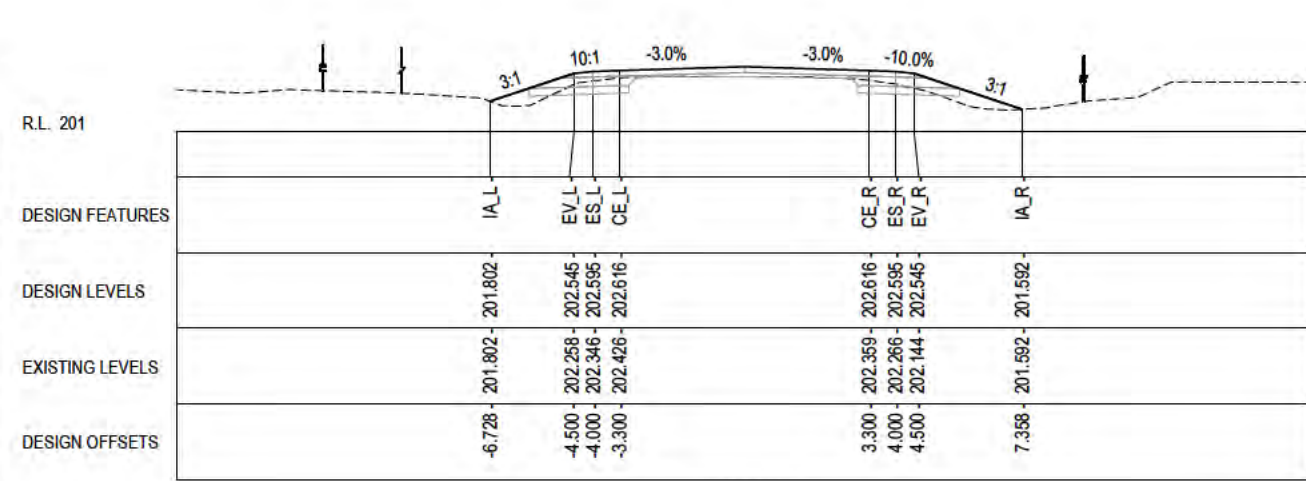
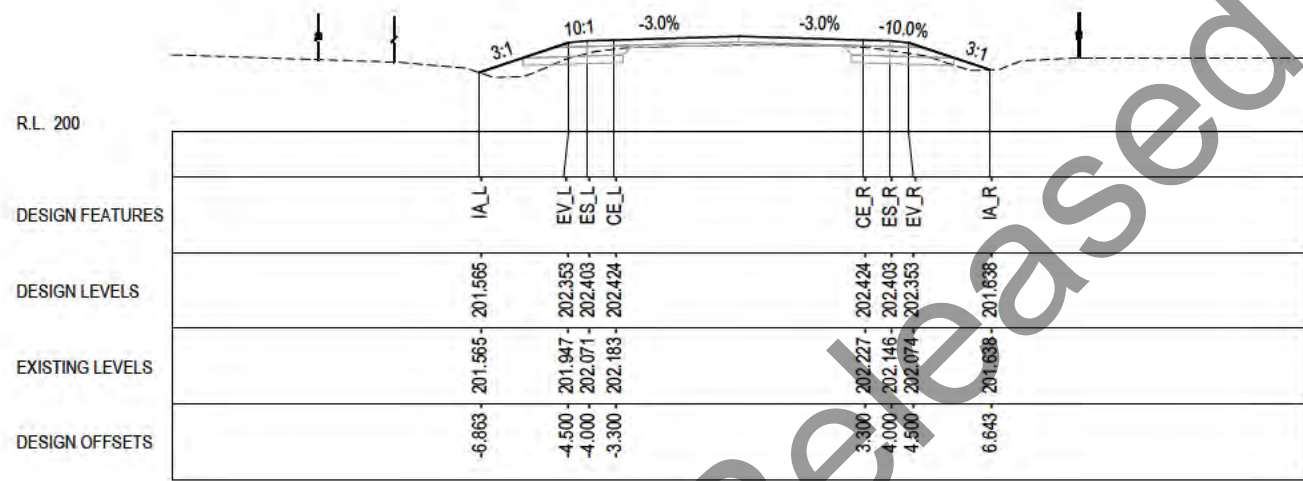
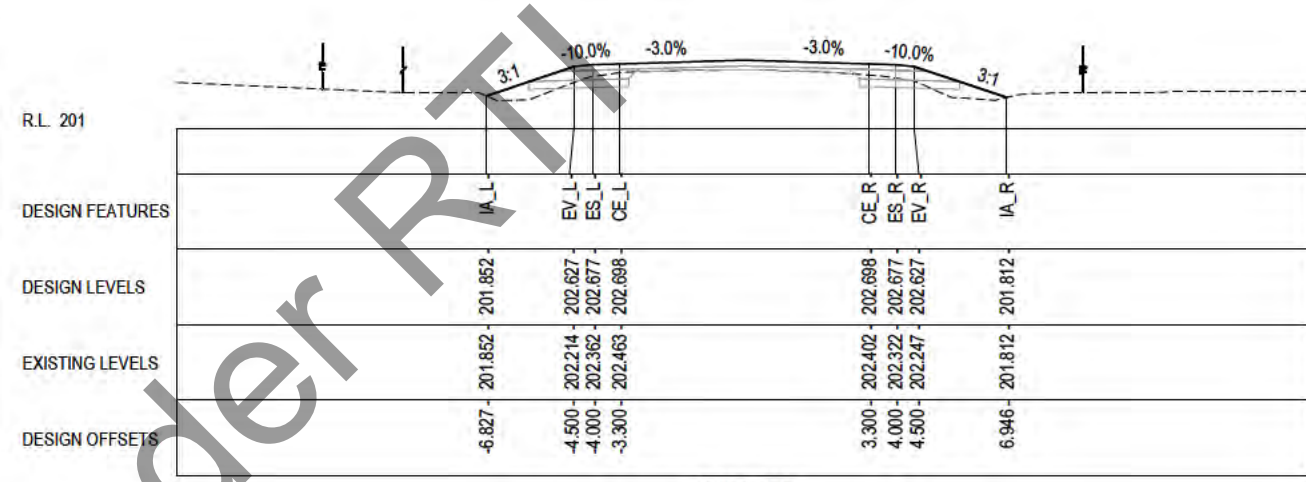
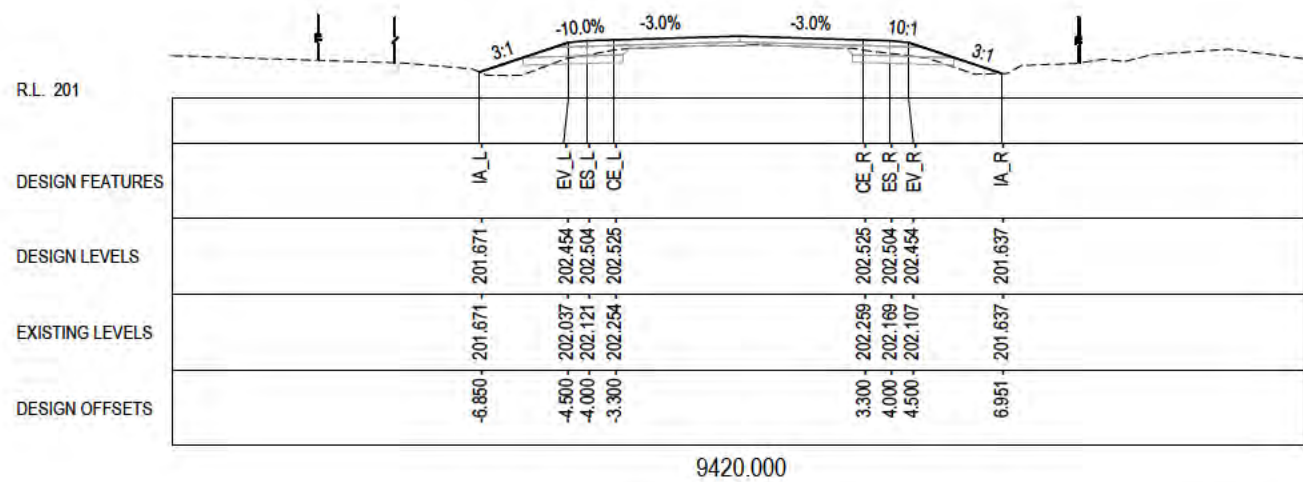
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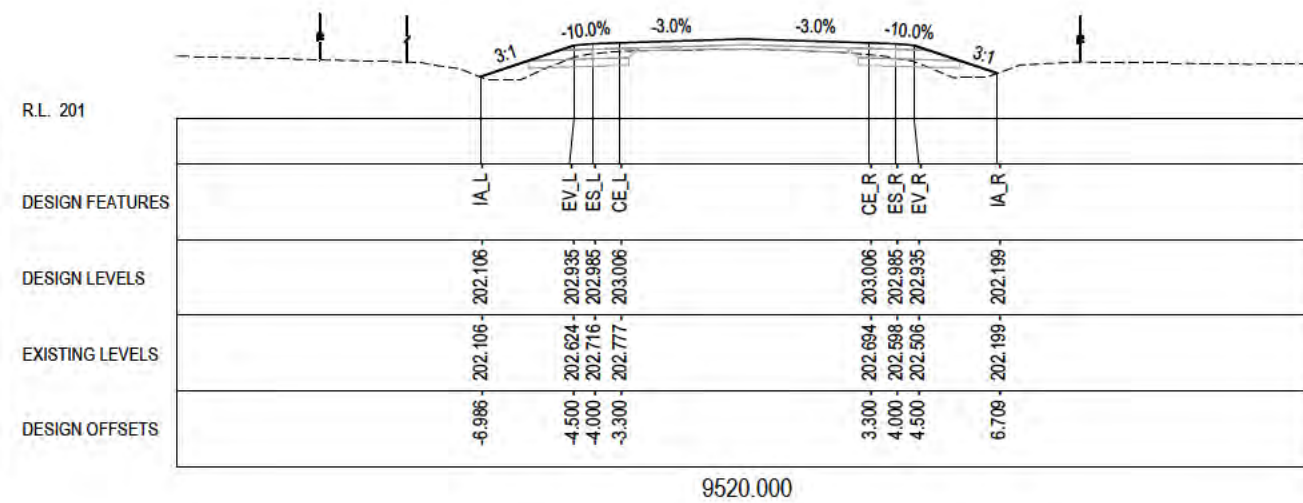
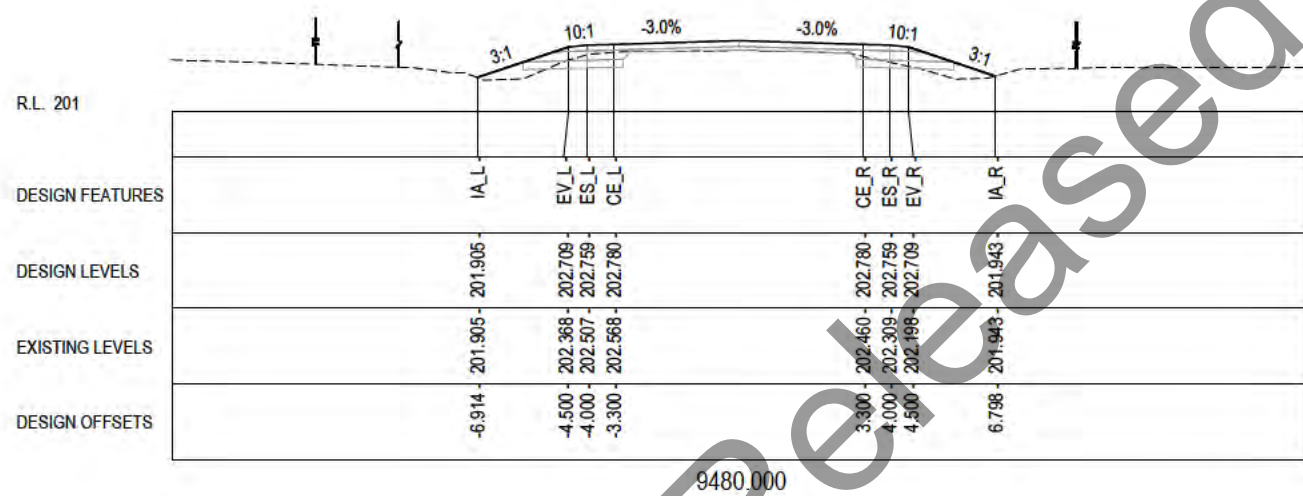
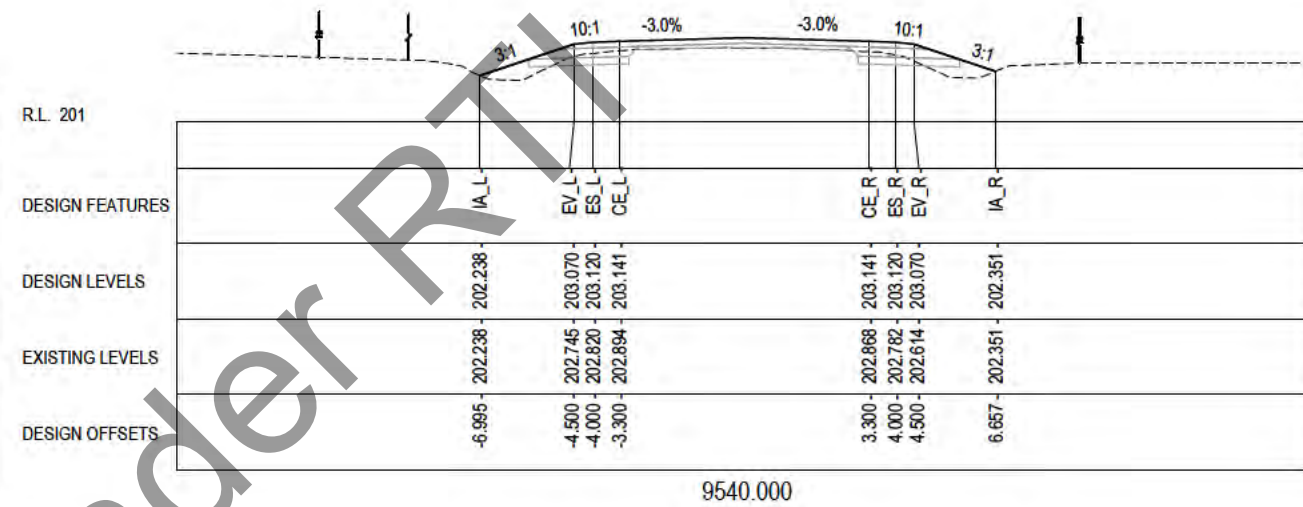
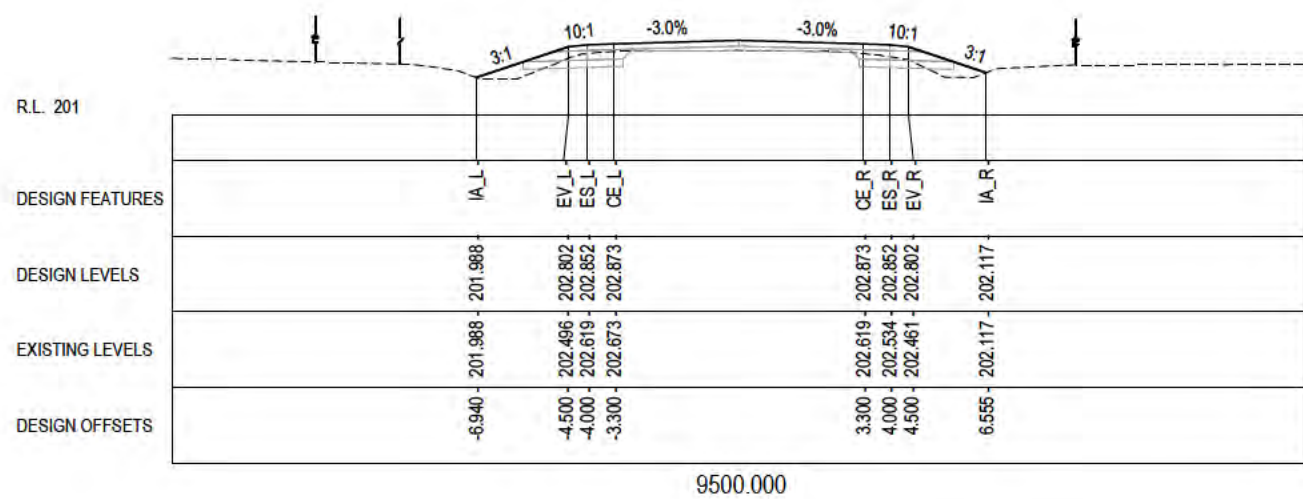


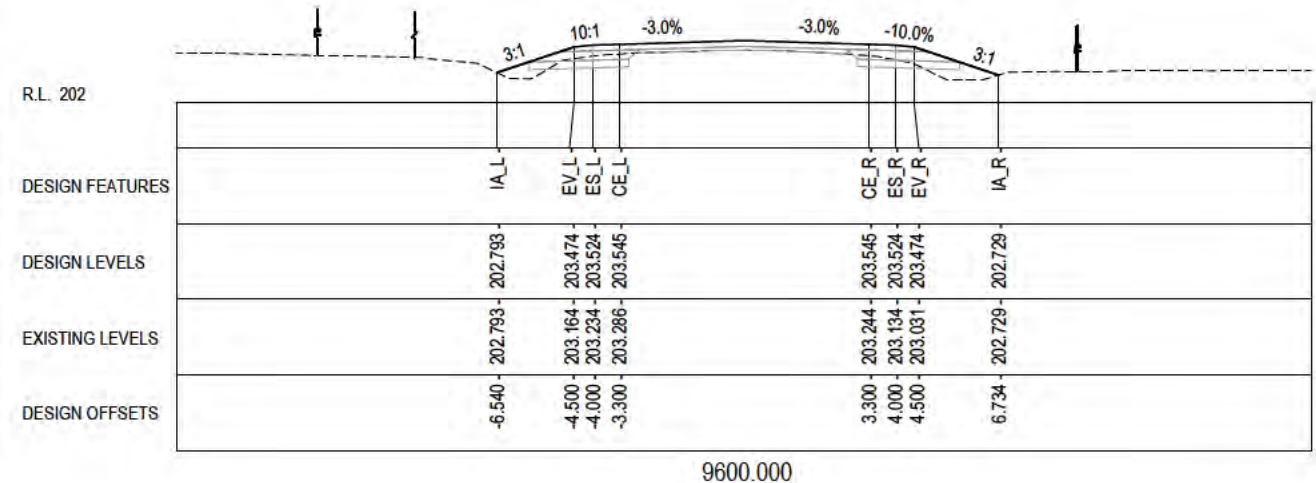
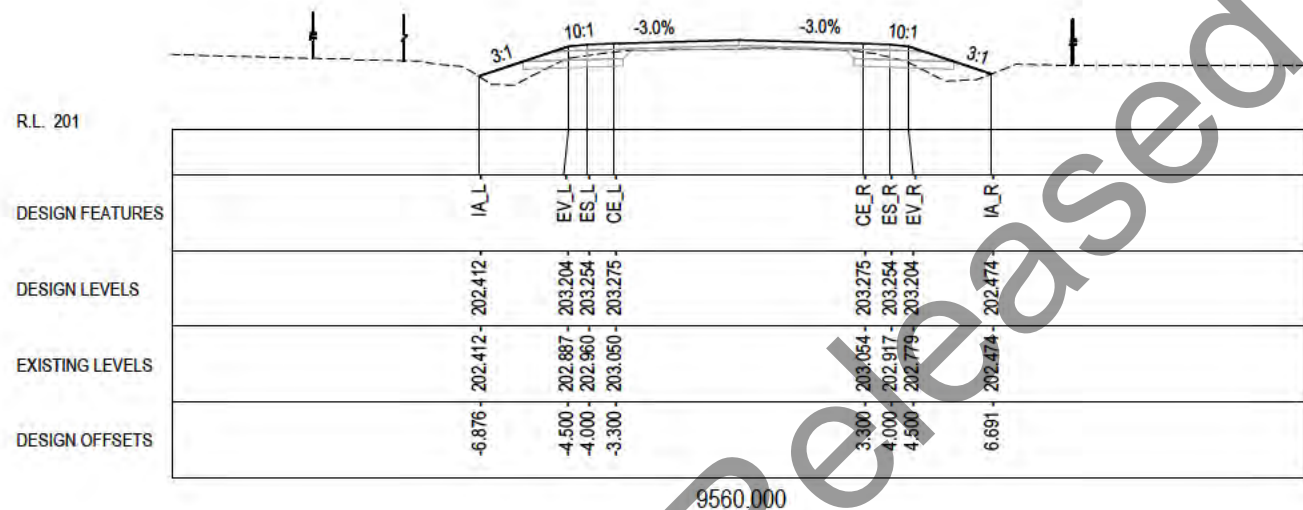
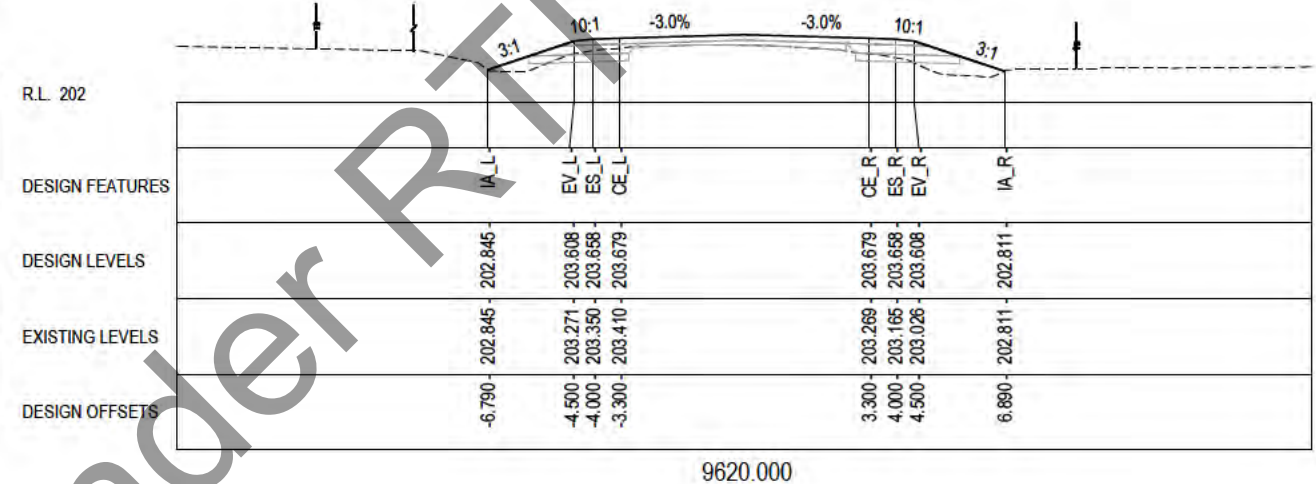
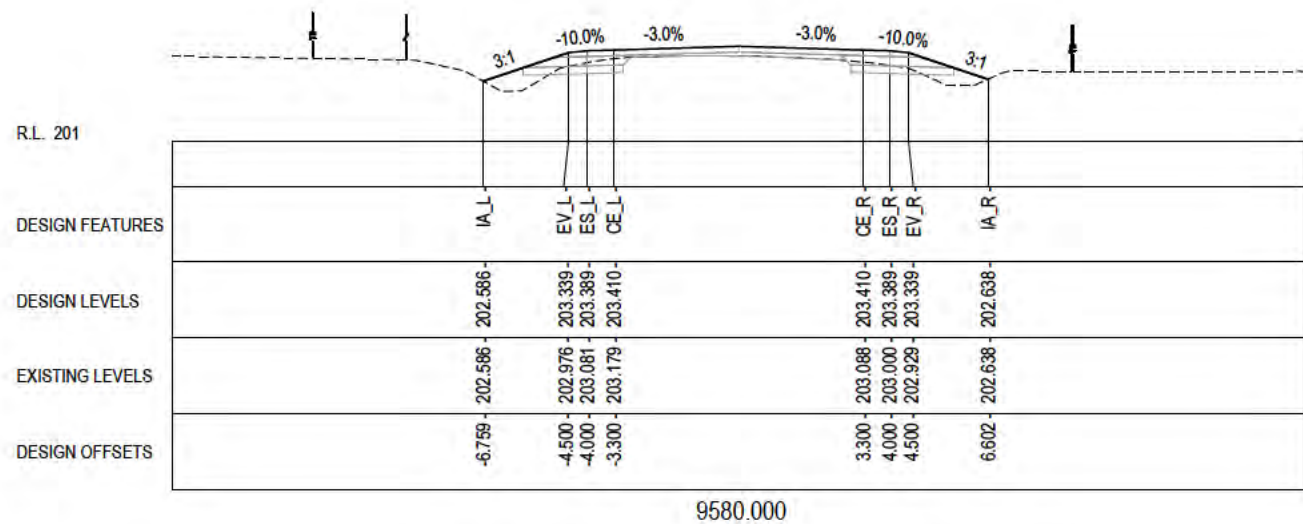
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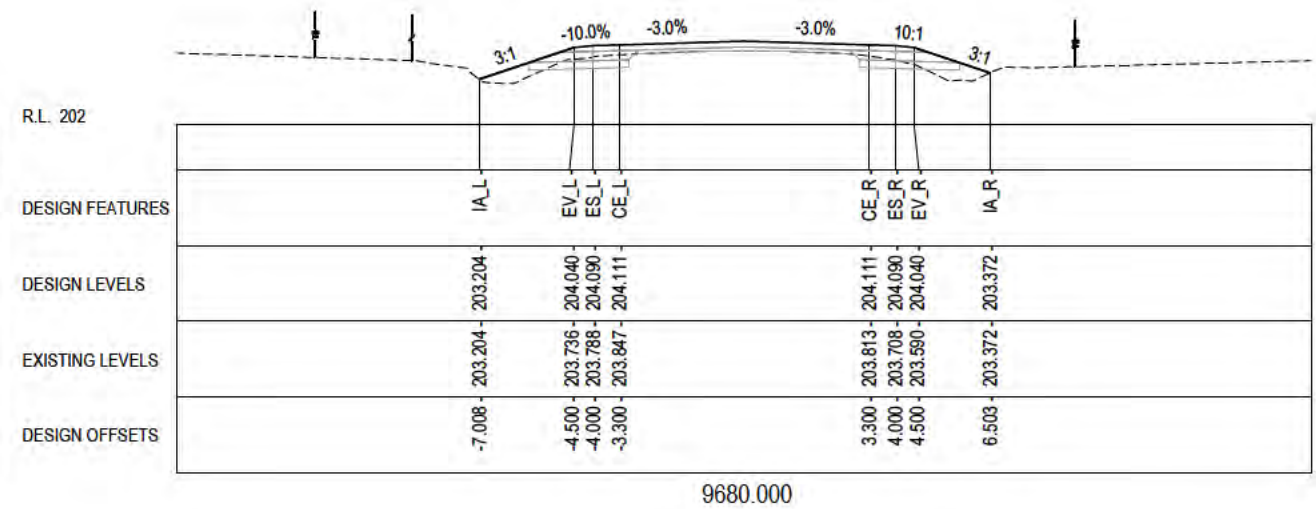
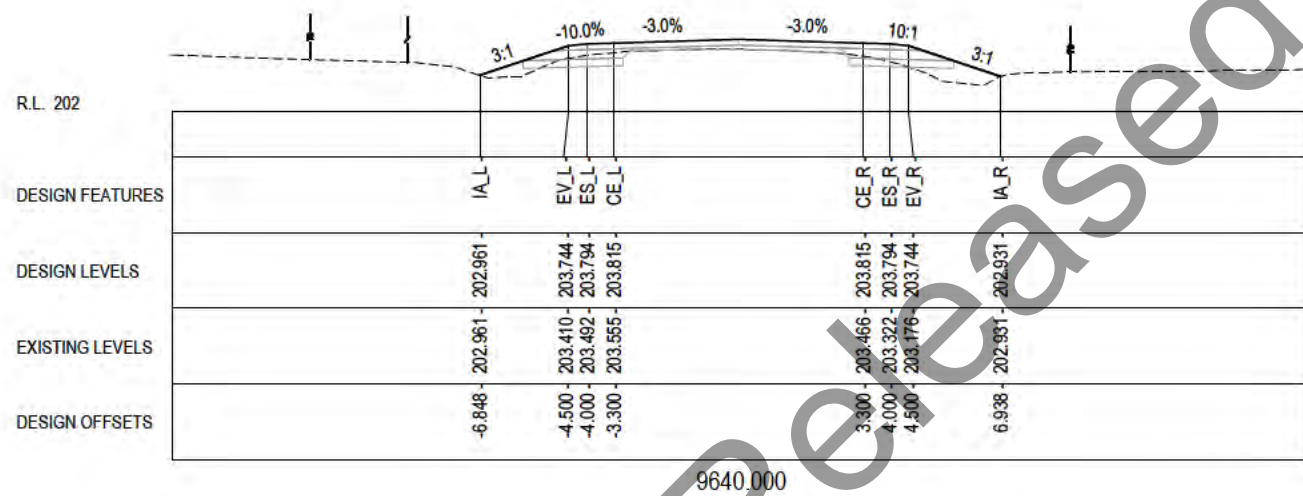
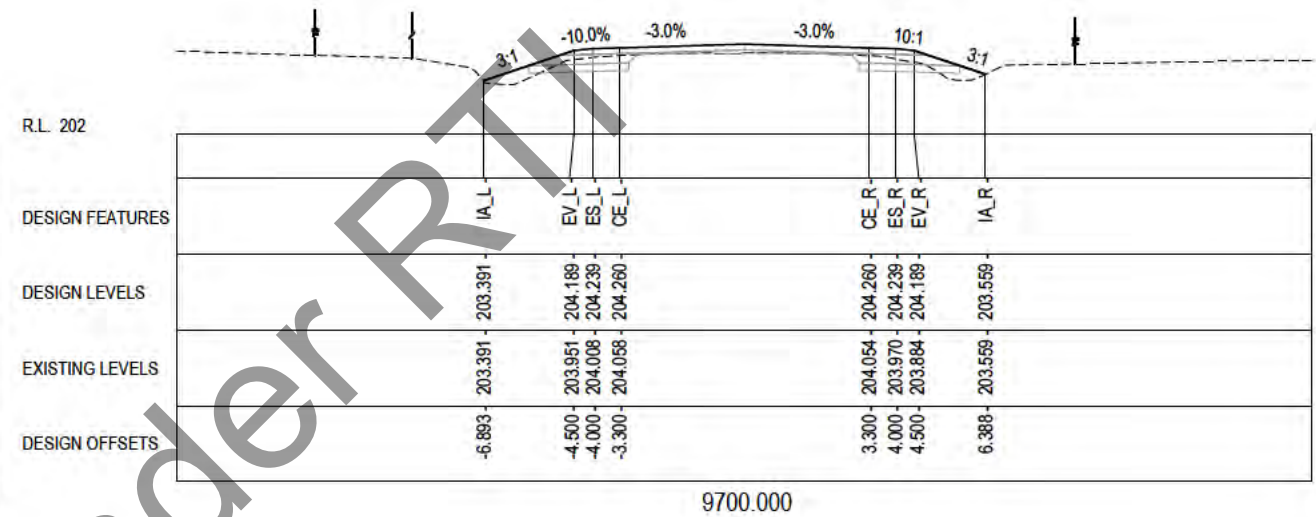
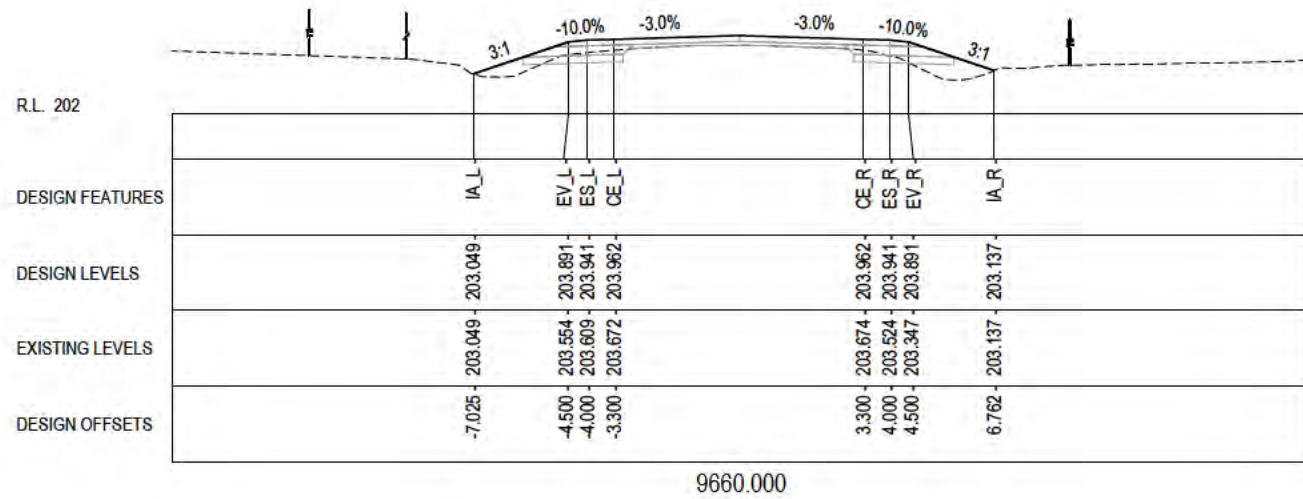
				Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2) CROSS SECTIONS (DESIGN LINE CL94) - DRG 105		CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2915	PRINTED DATE 28-Jul-23, 2:14 PM	SHEET No. 2915
		SCALES 1:200 SCALE IN METRES - 1:200		DESIGNED REVIEWED		REGISTRATION NUMBER A1701.002		REVISION A	
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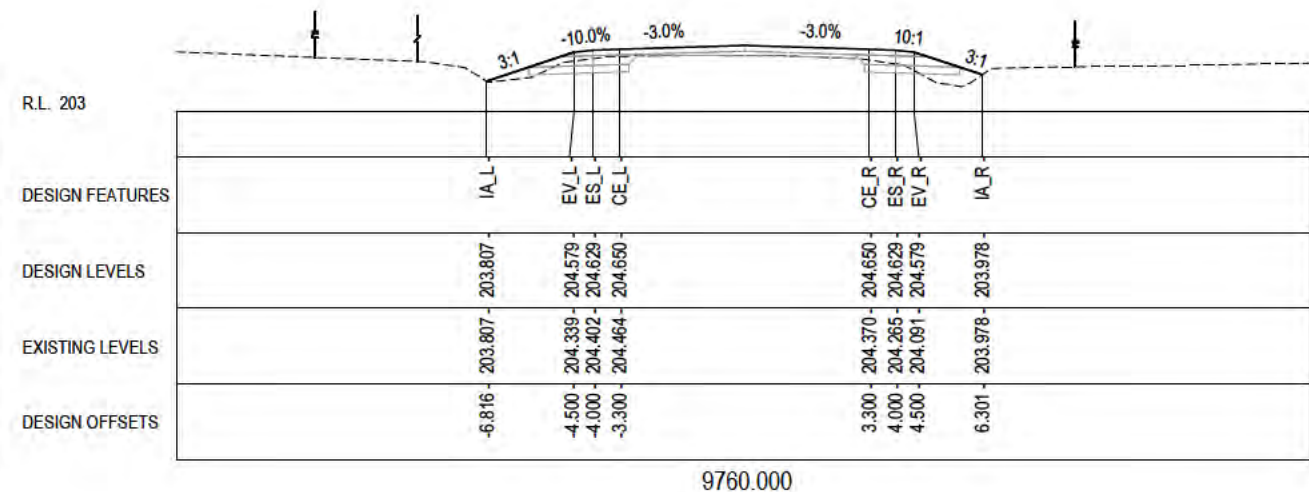
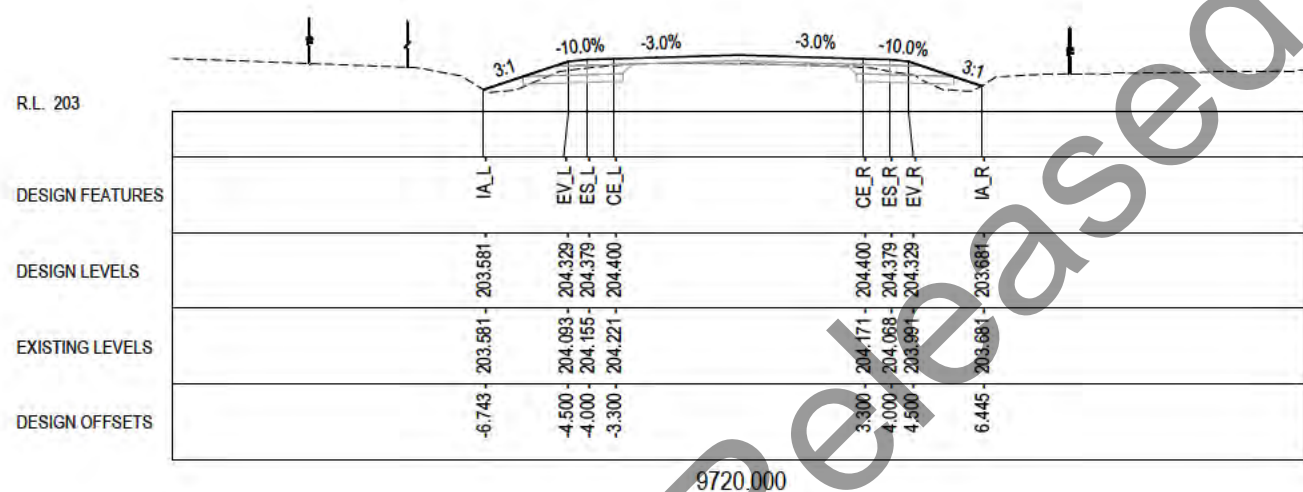
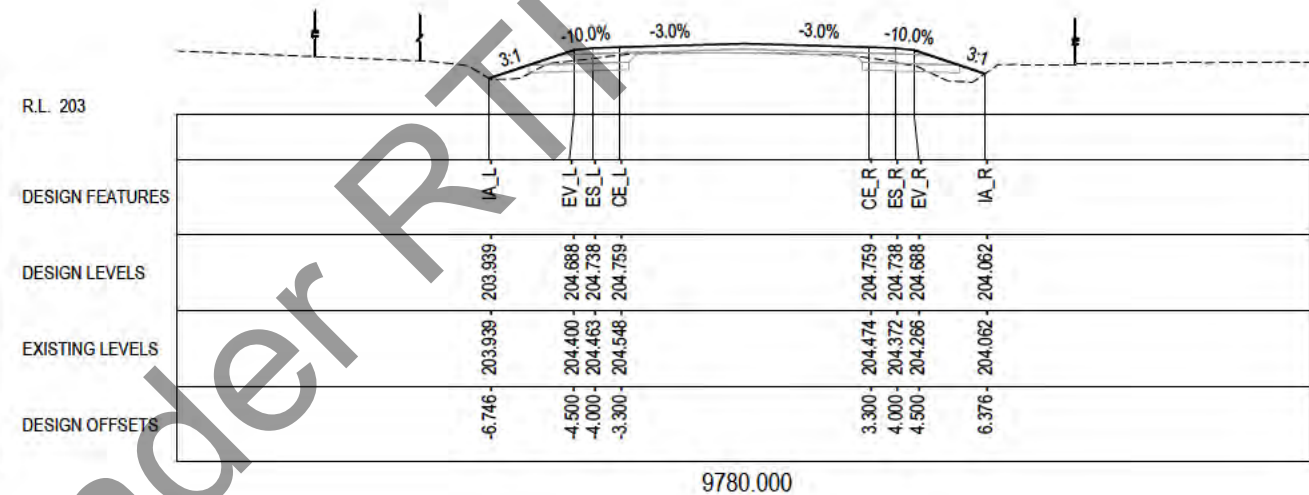
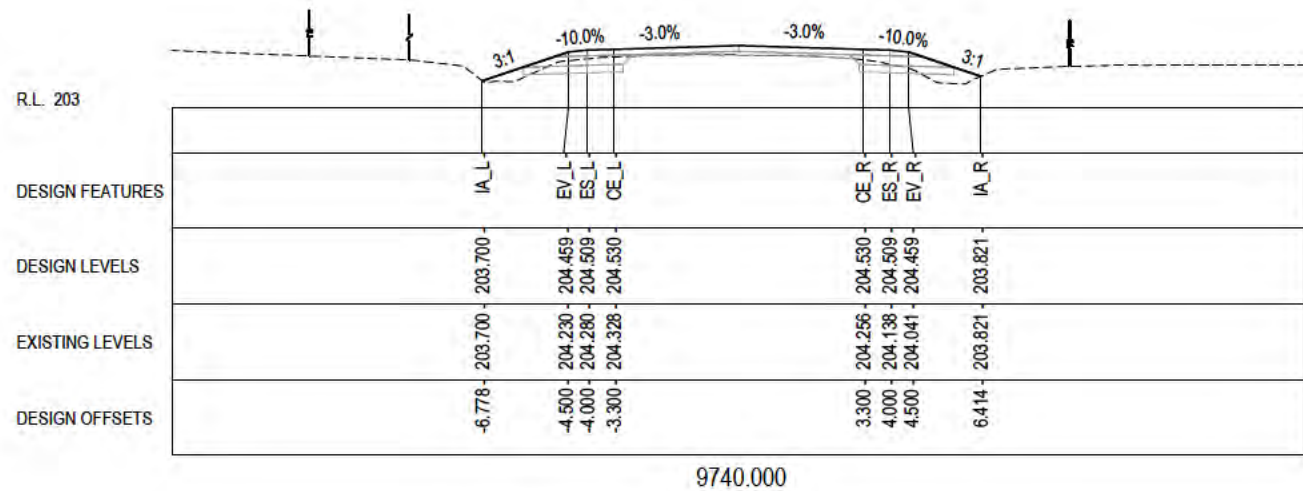








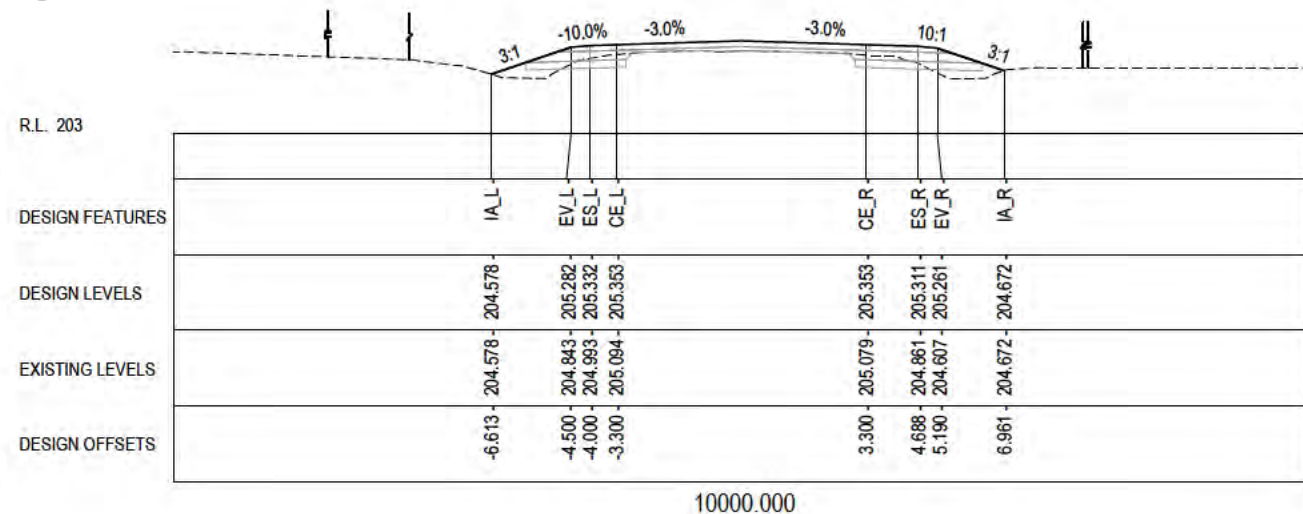
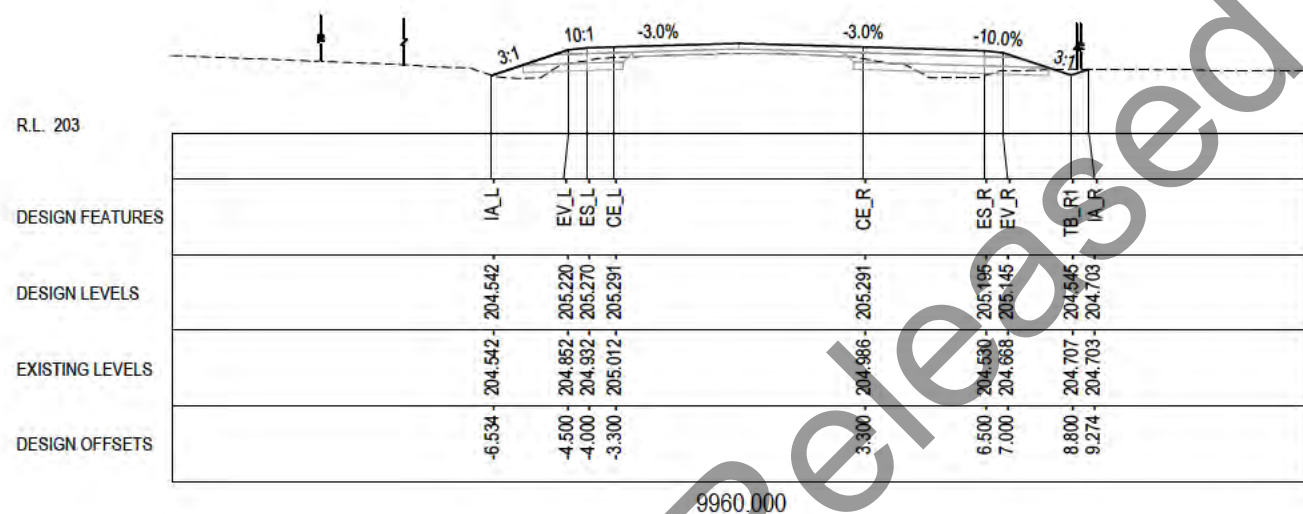
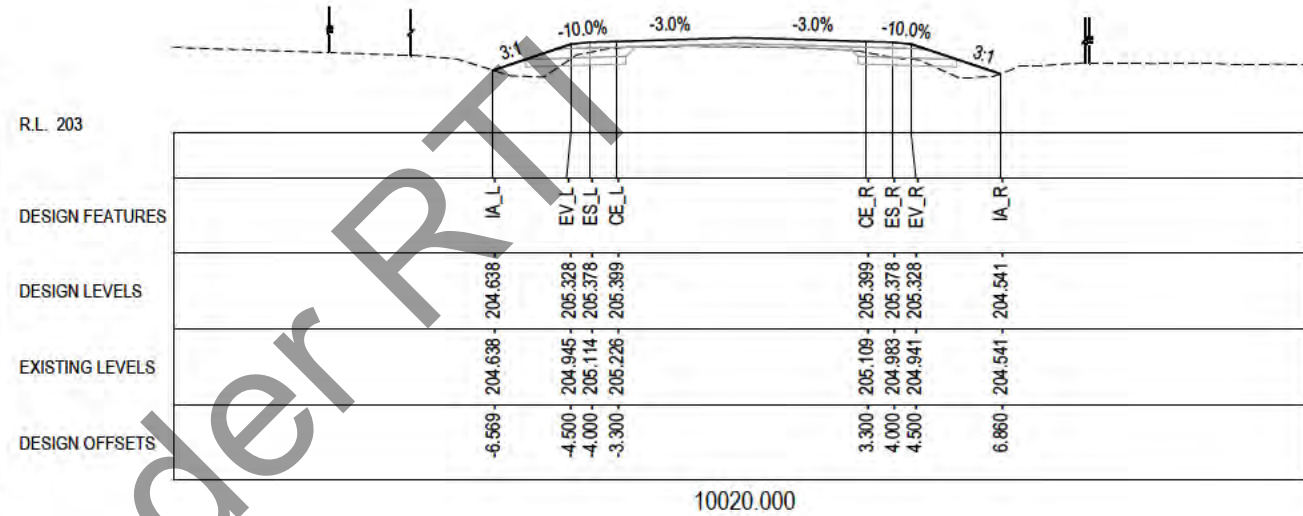
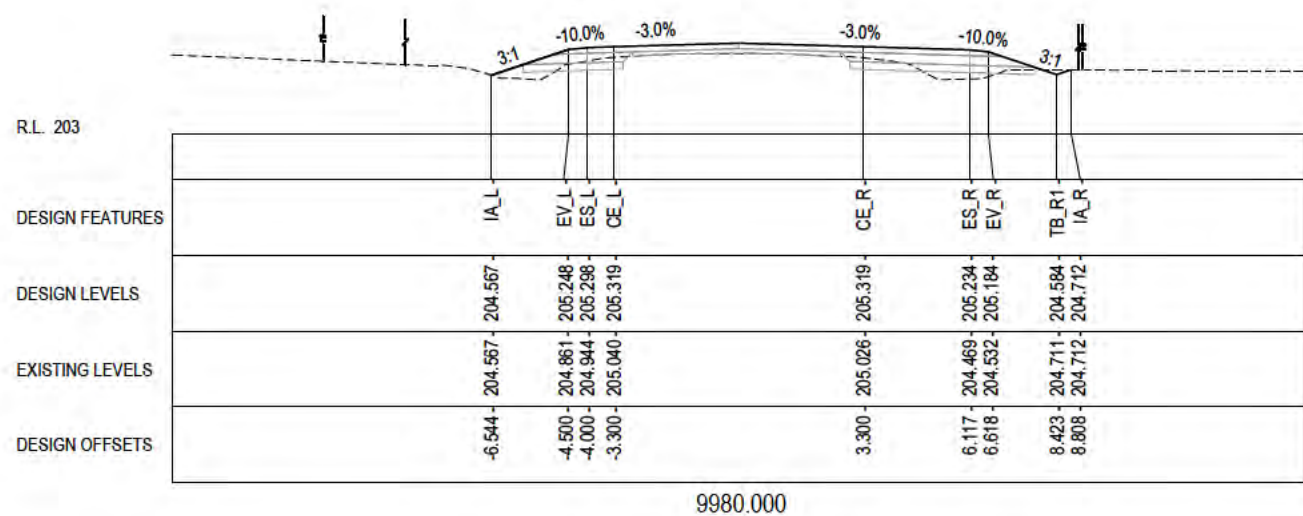


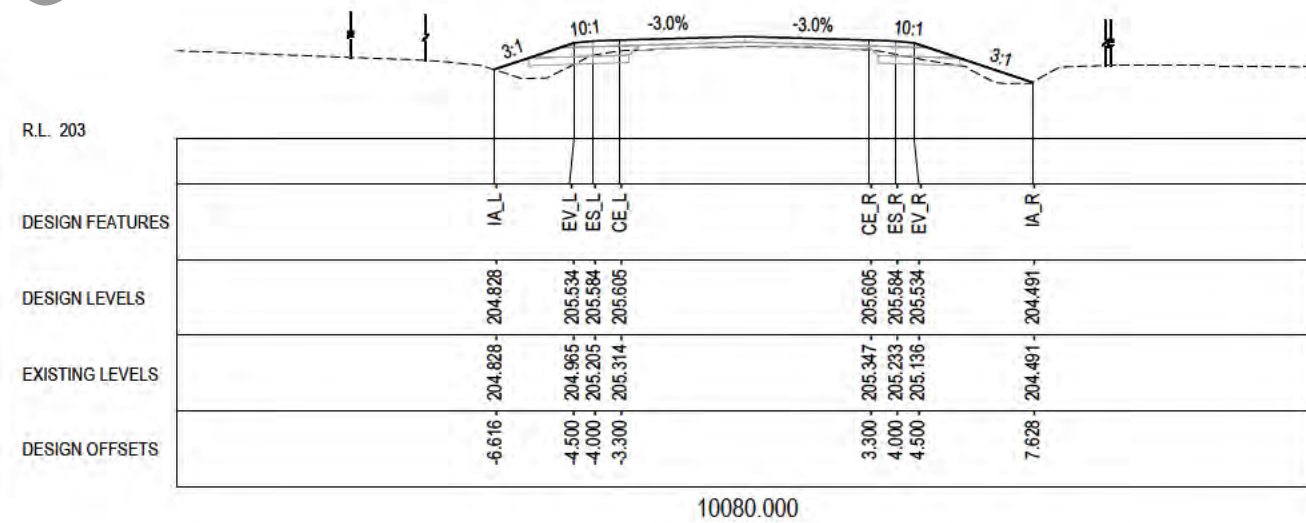
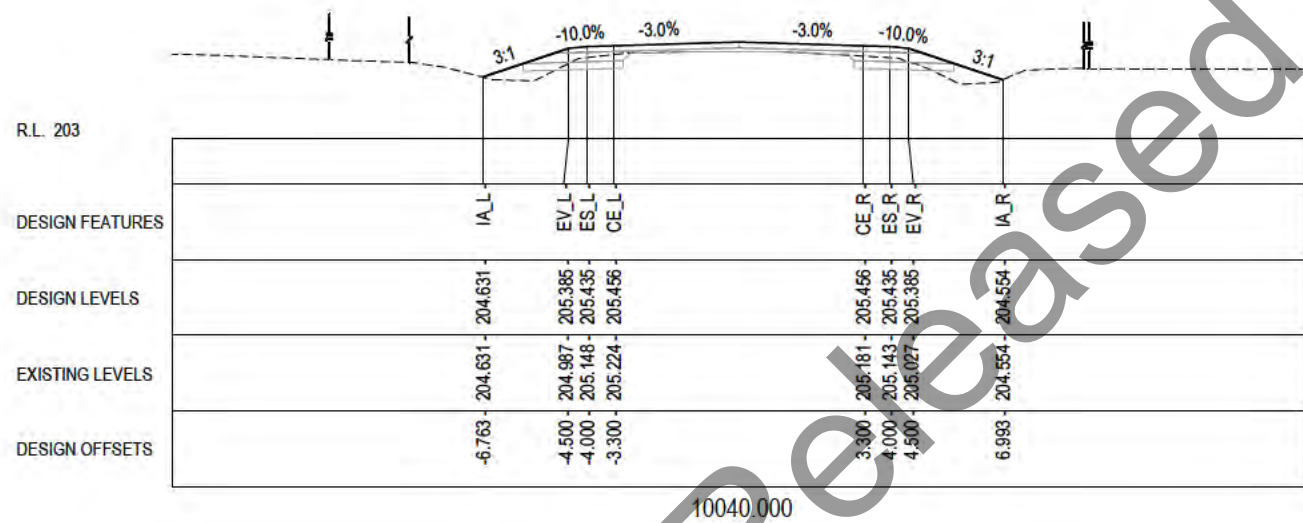
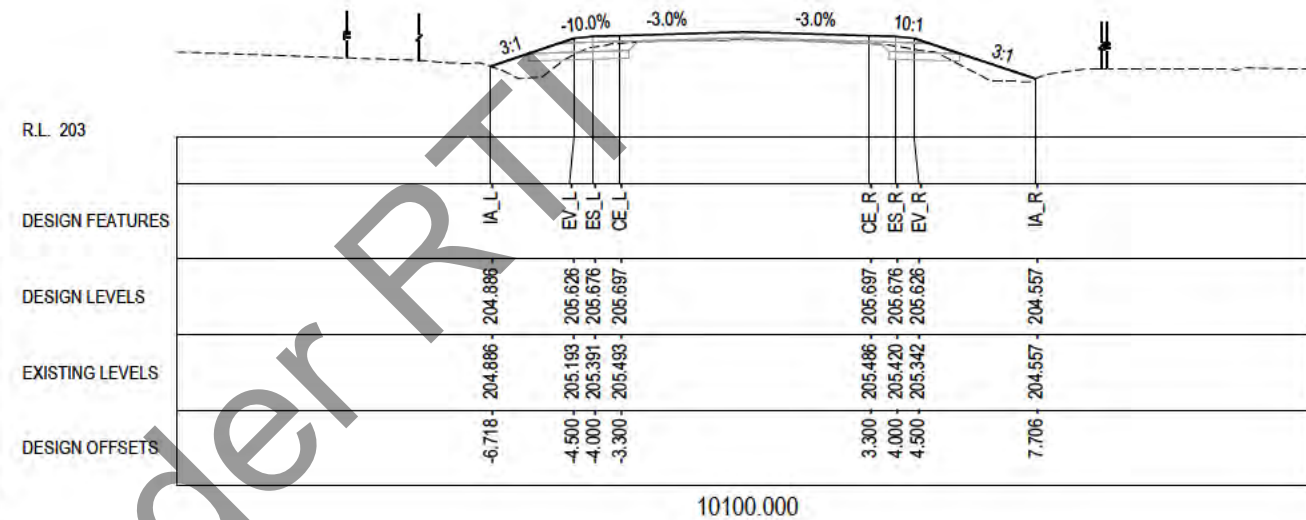
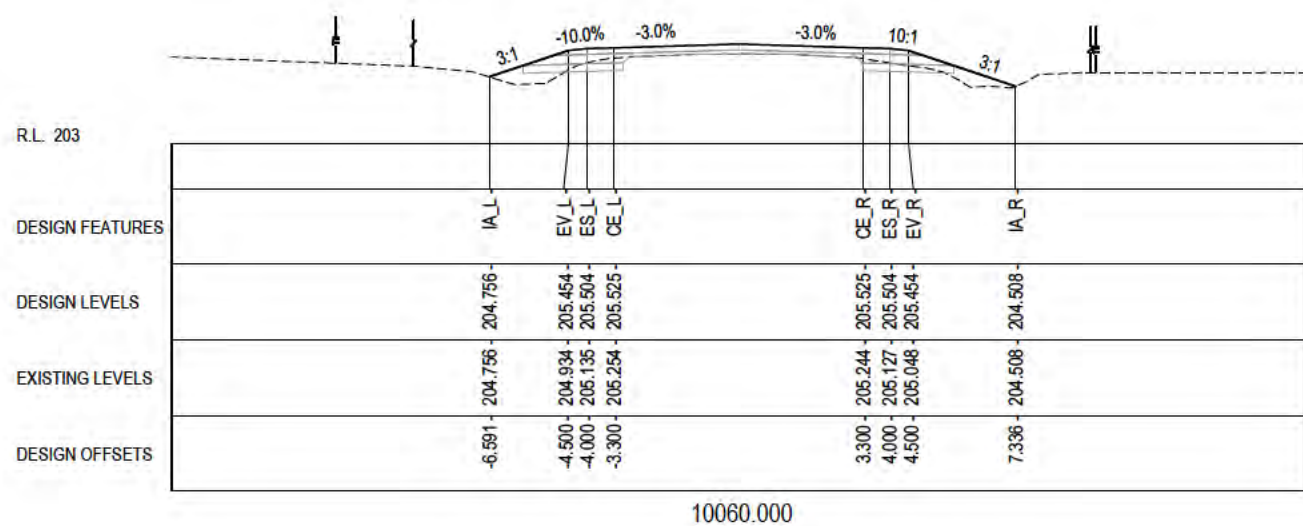


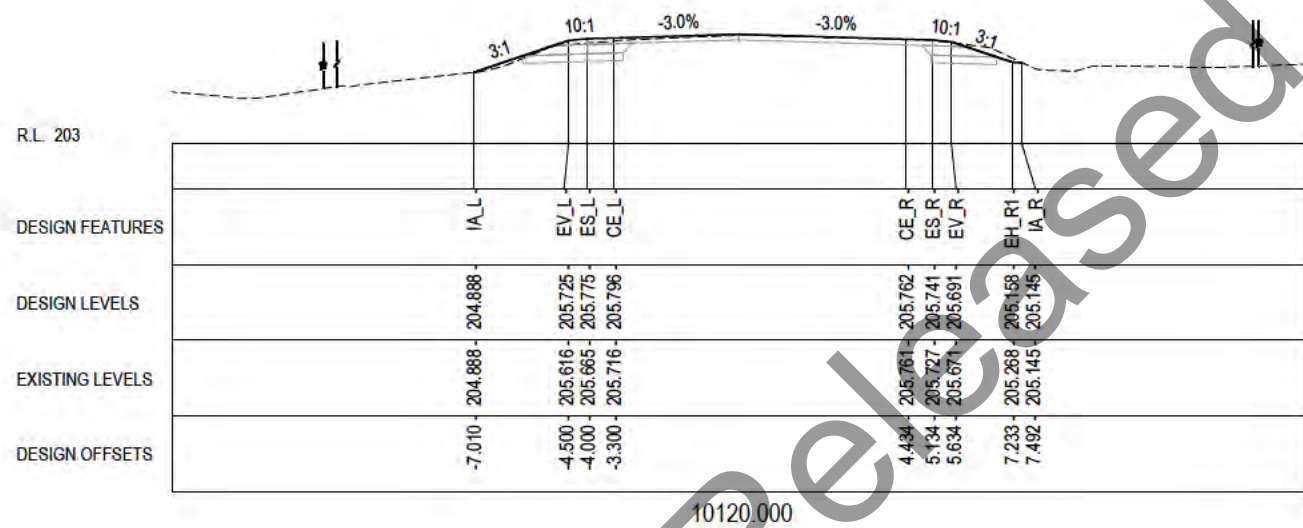
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						BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2)		3521	S-P.20.2000-00-CIV-DRG-2922	28-Jul-23, 2:14 PM	2922	
A	PRELIMINARY DESIGN	L.J.B.	28/07/2023			DESIGNED REVIEWED		REGISTRATION NUMBER A1701.002				REVISION A
No.	Amendment Description	Initials	Date									
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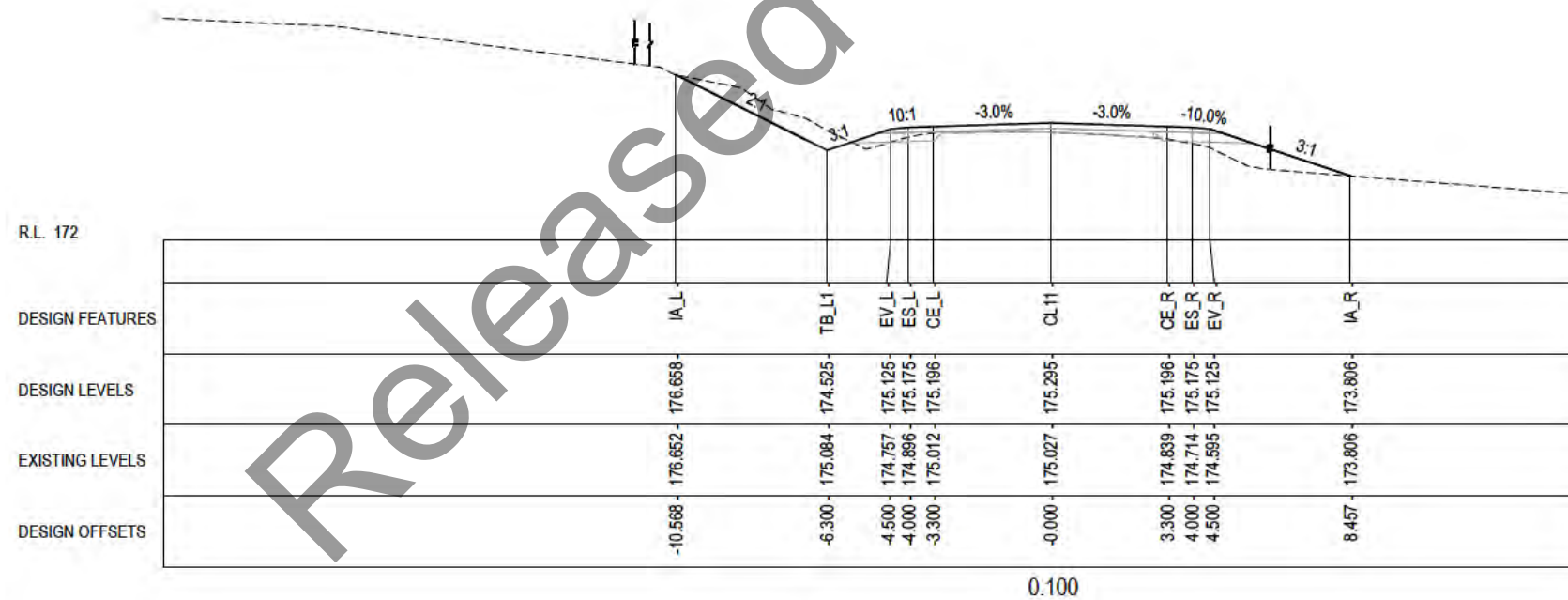
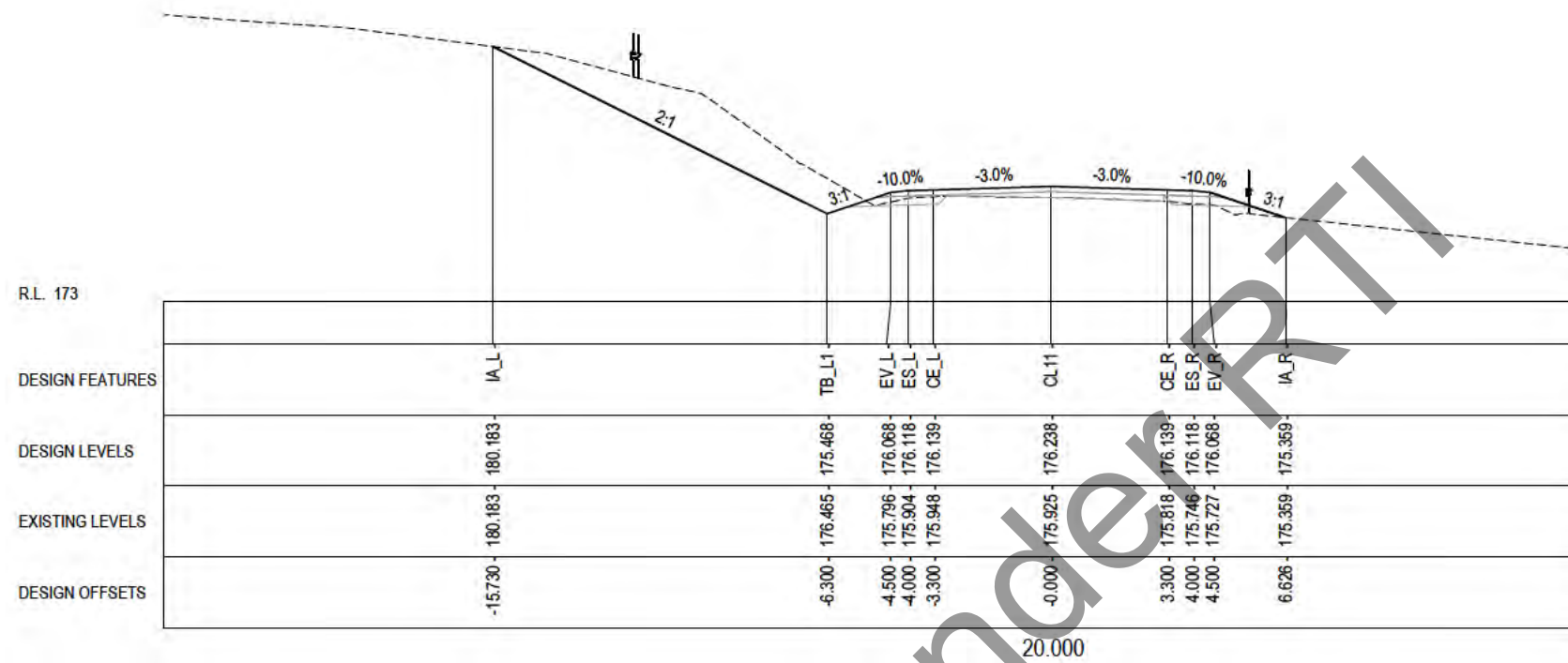
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A	PRELIMINARY DESIGN	L.J.B.	28/07/2023				REGISTRATION NUMBER A1701.002				
No.	Amendment Description	Initials	Date								
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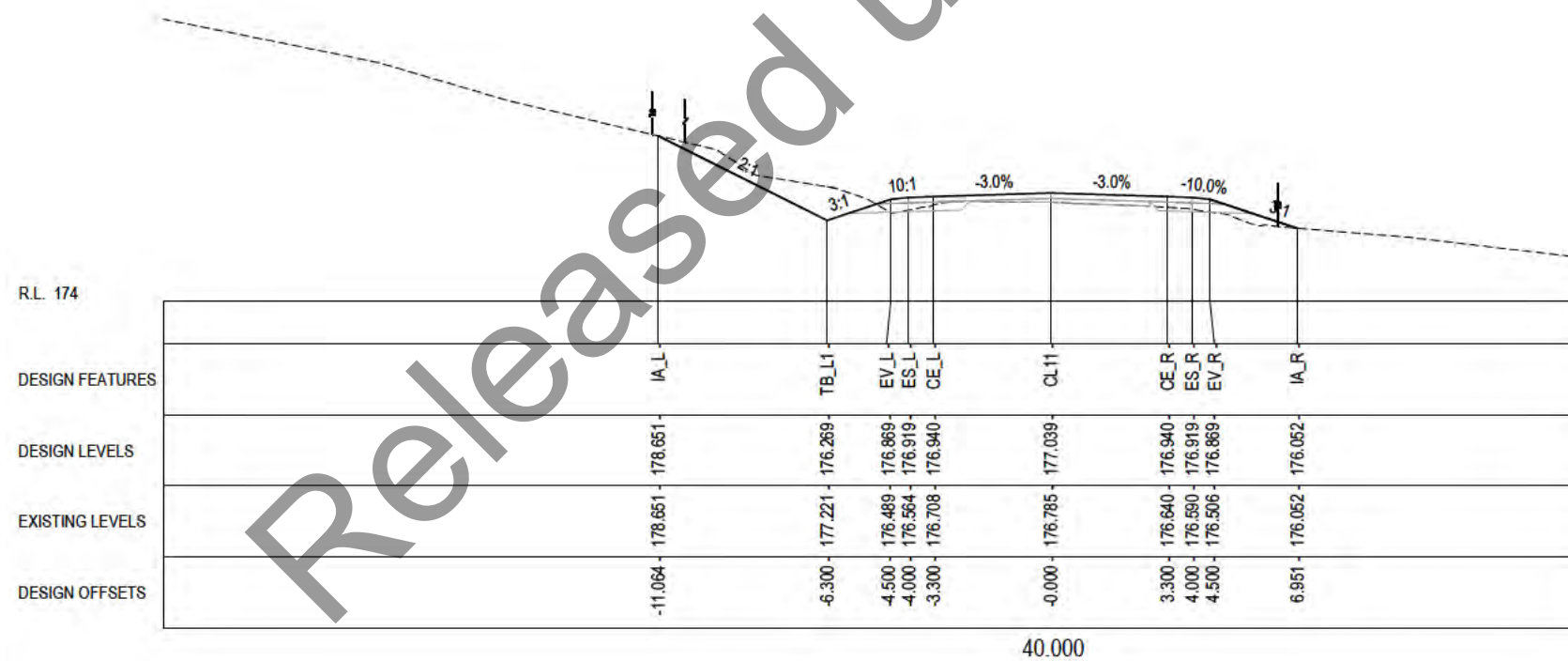
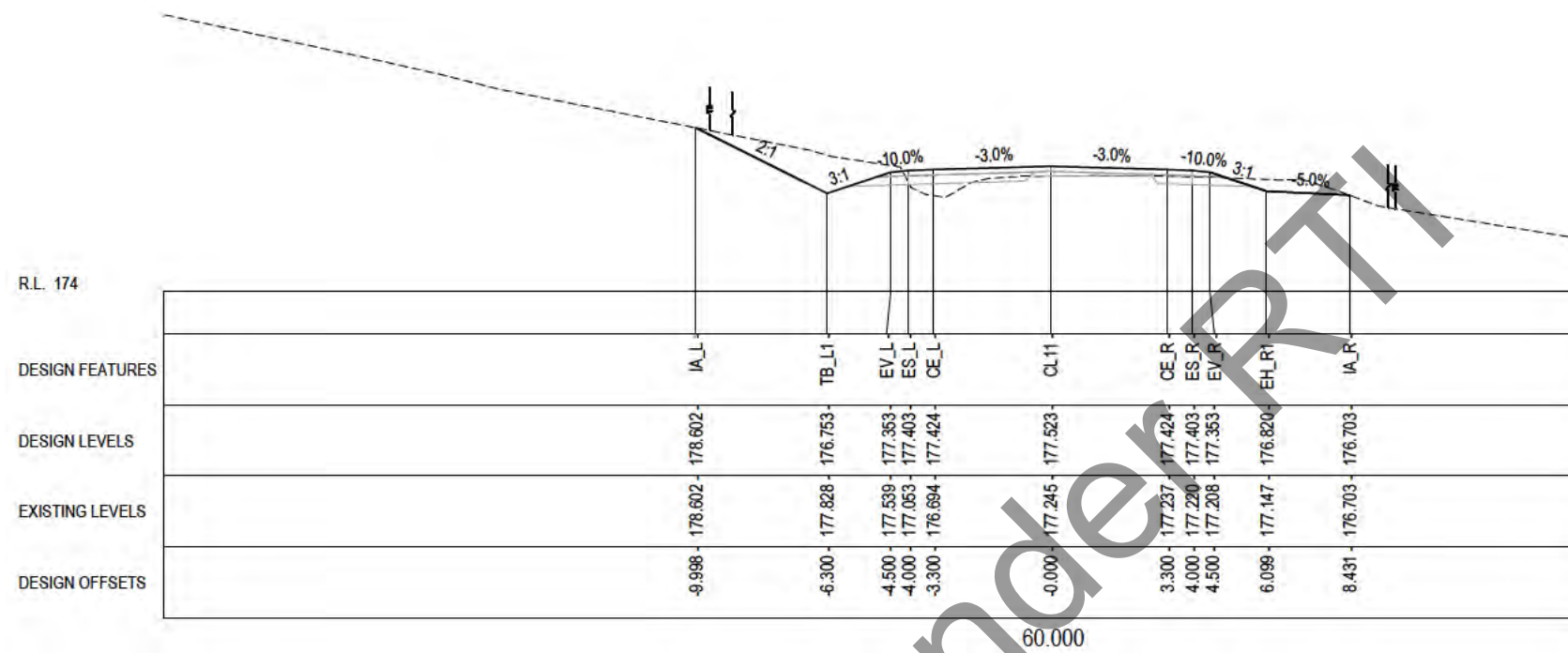


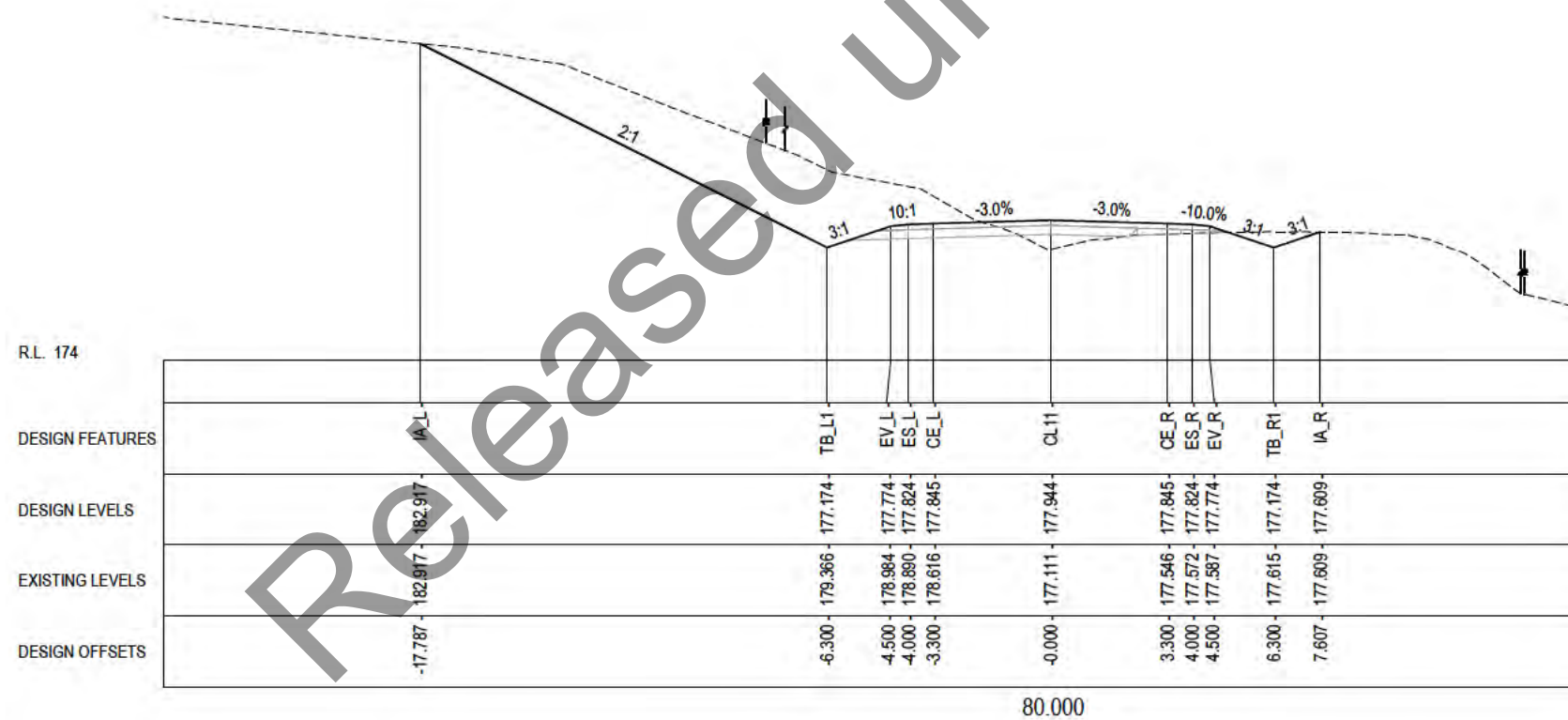
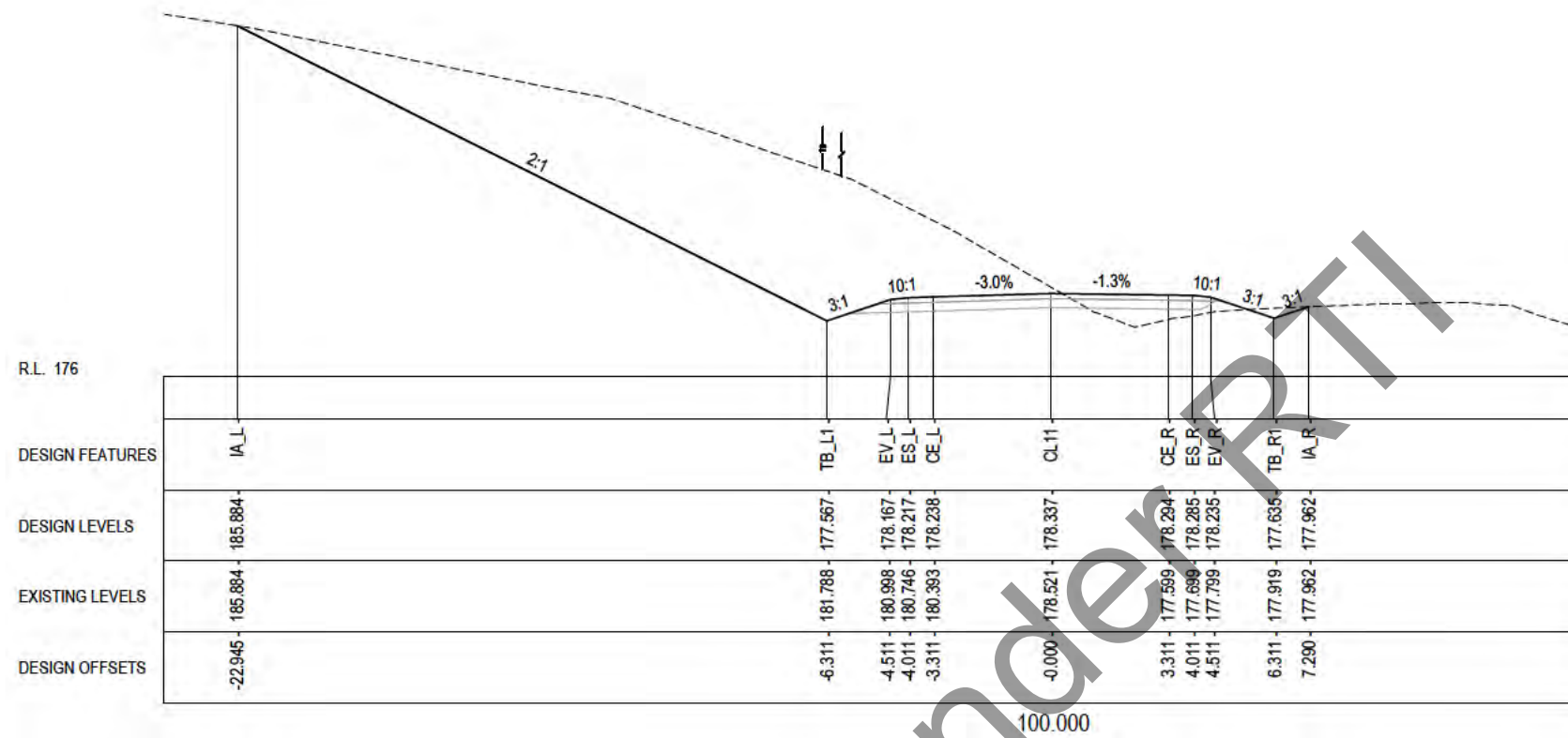




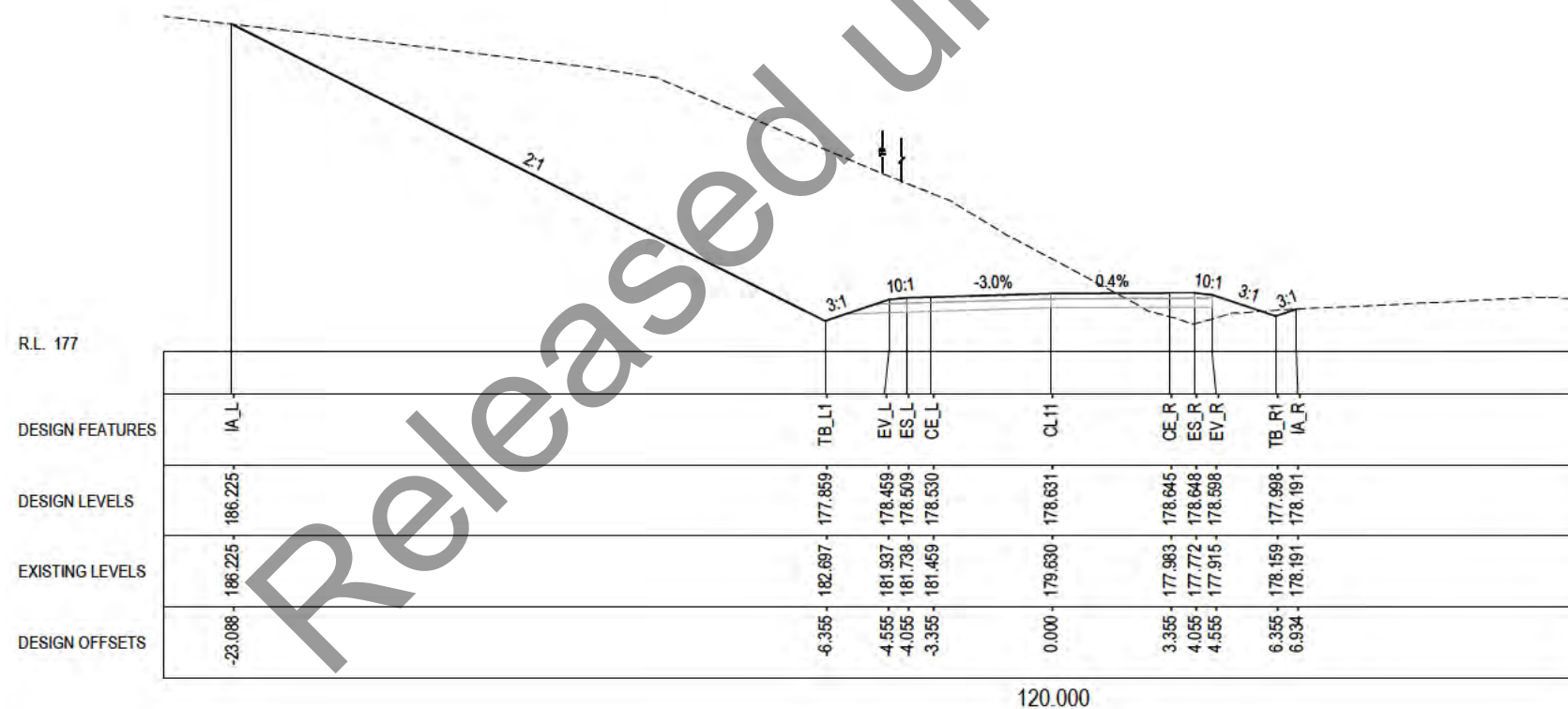
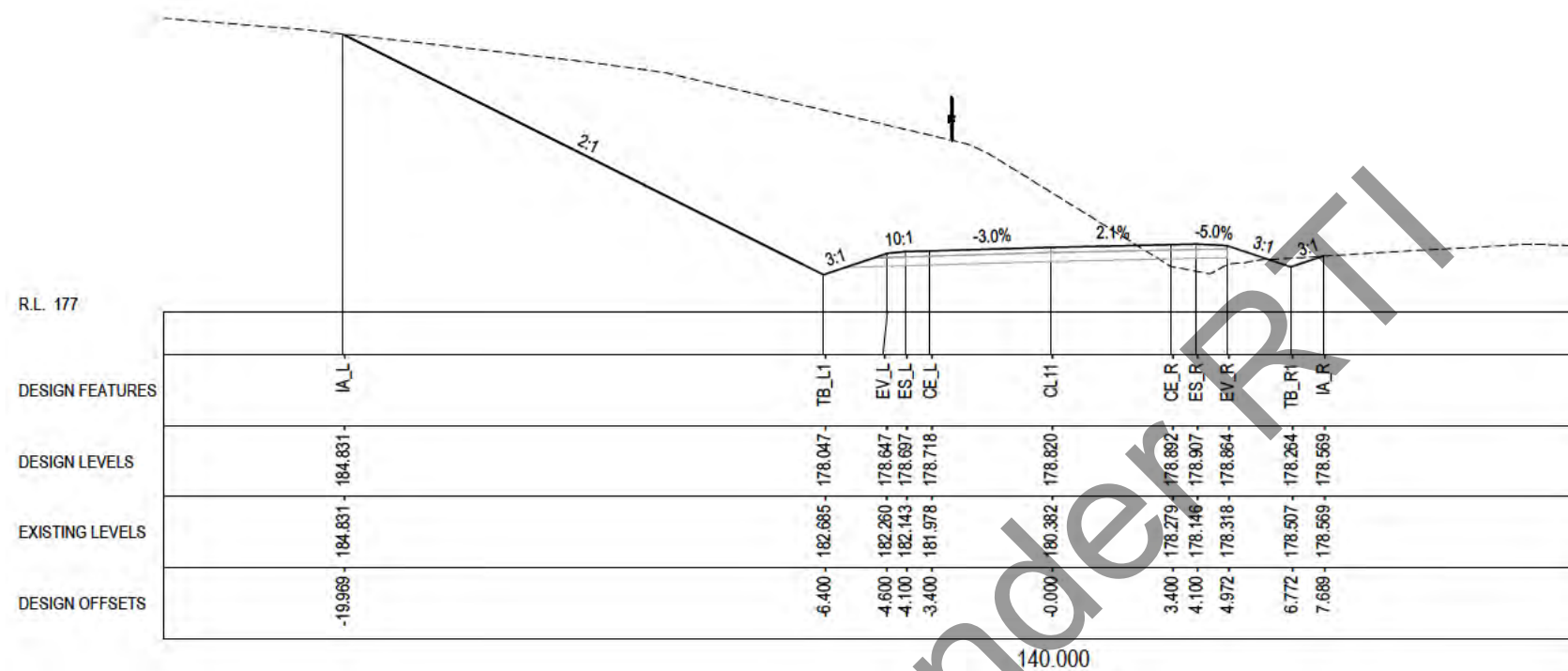
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		SCALE 1:200 SCALE IN METRES - 1:200		DESIGNED REVIEWED		REGISTRATION NUMBER A1701.002		REVISION A	
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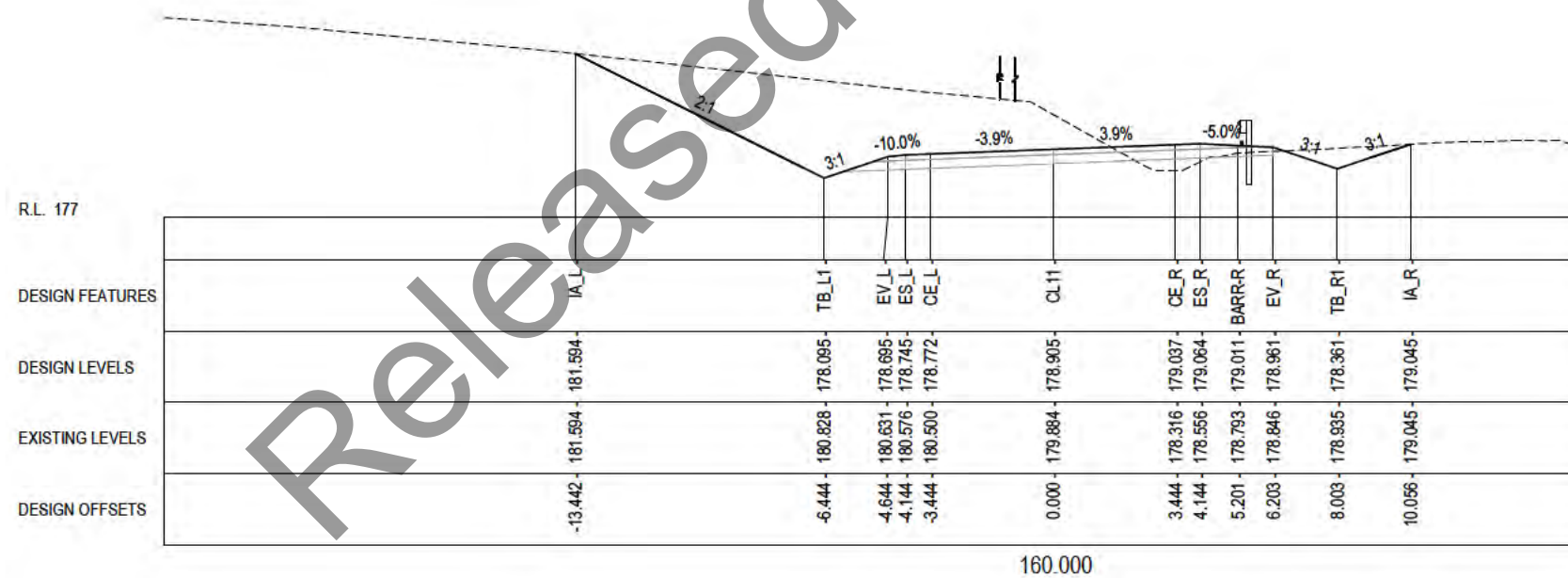
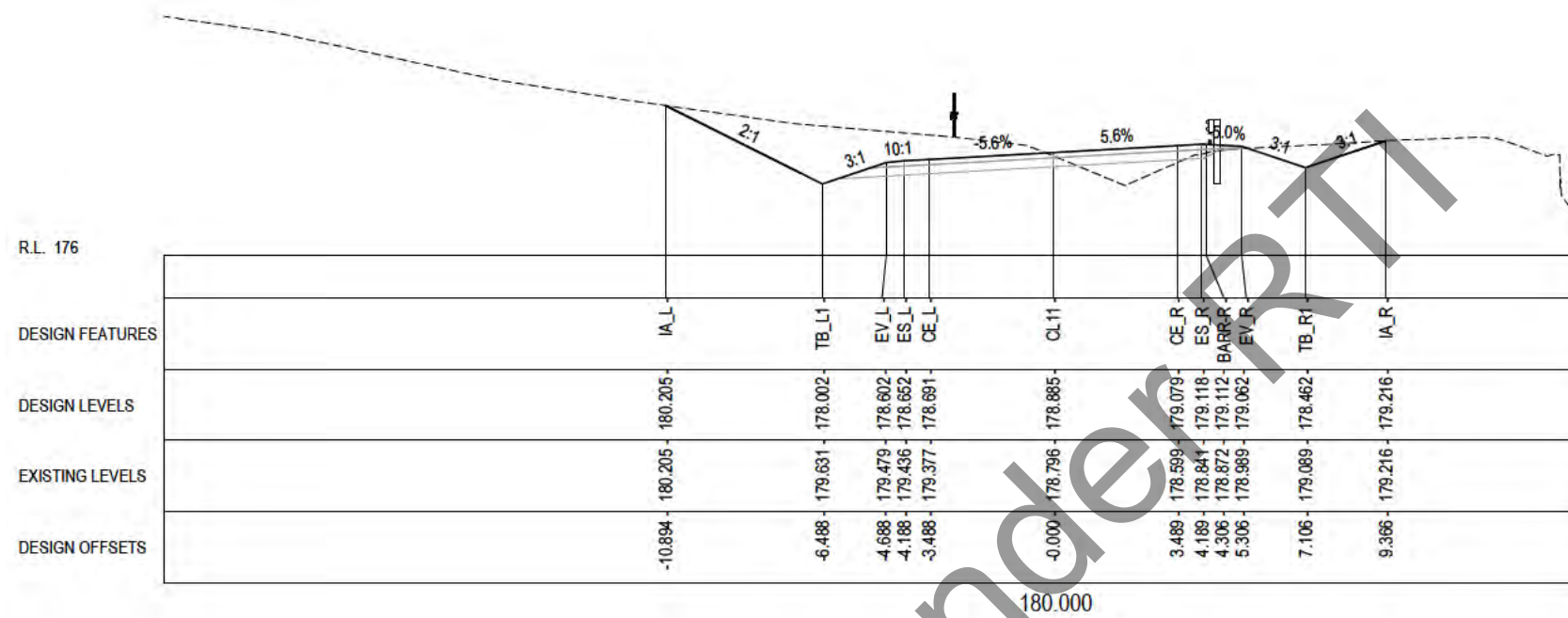


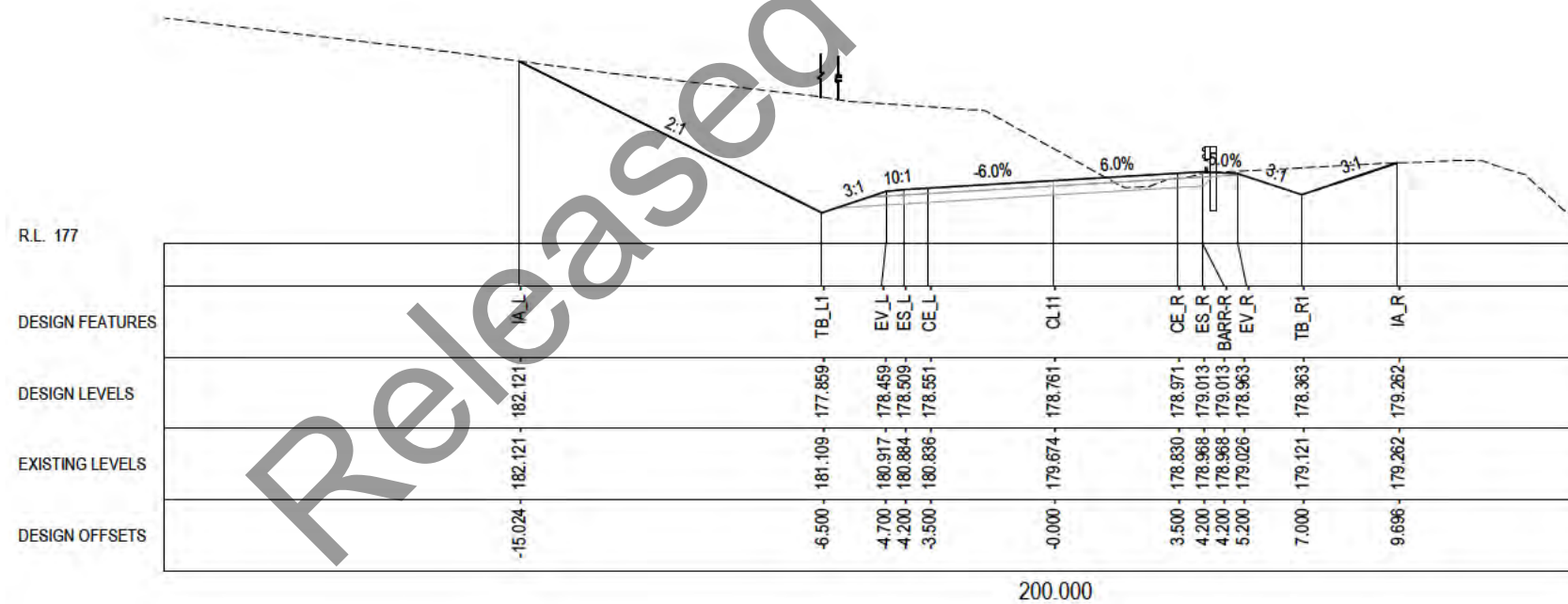
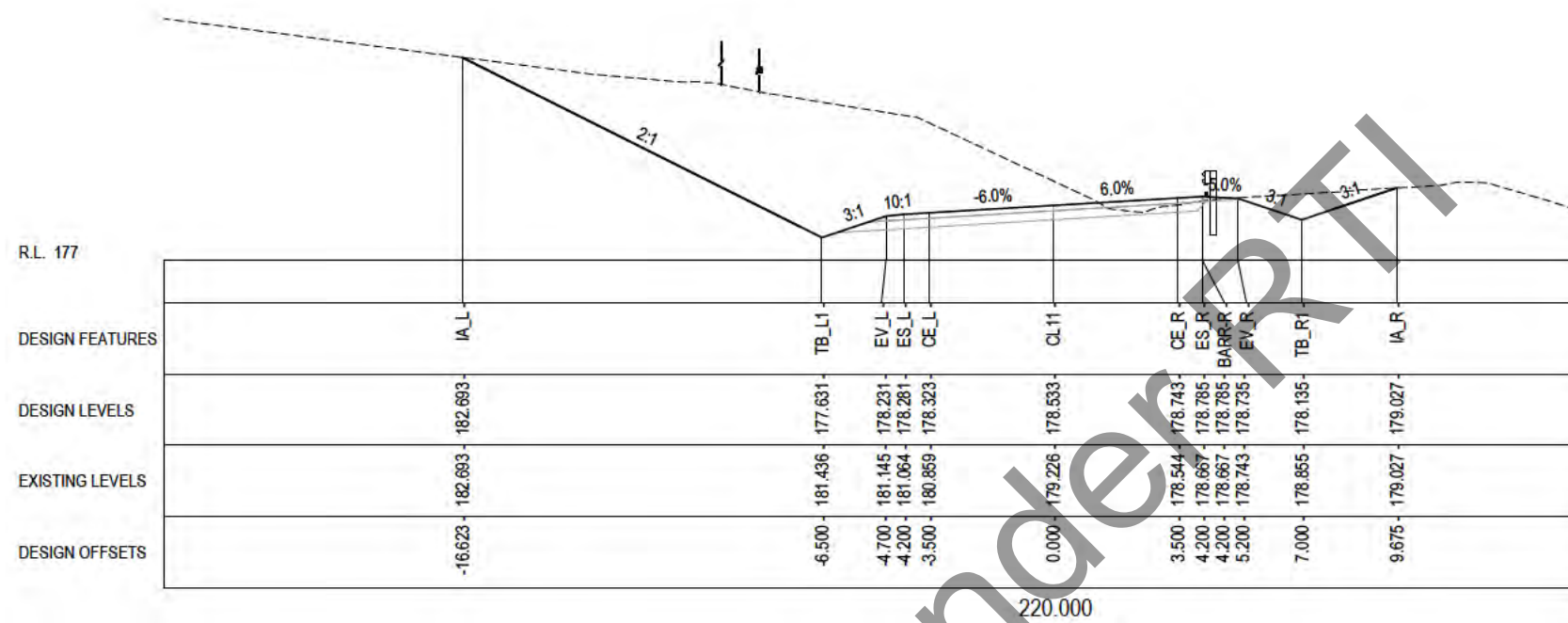


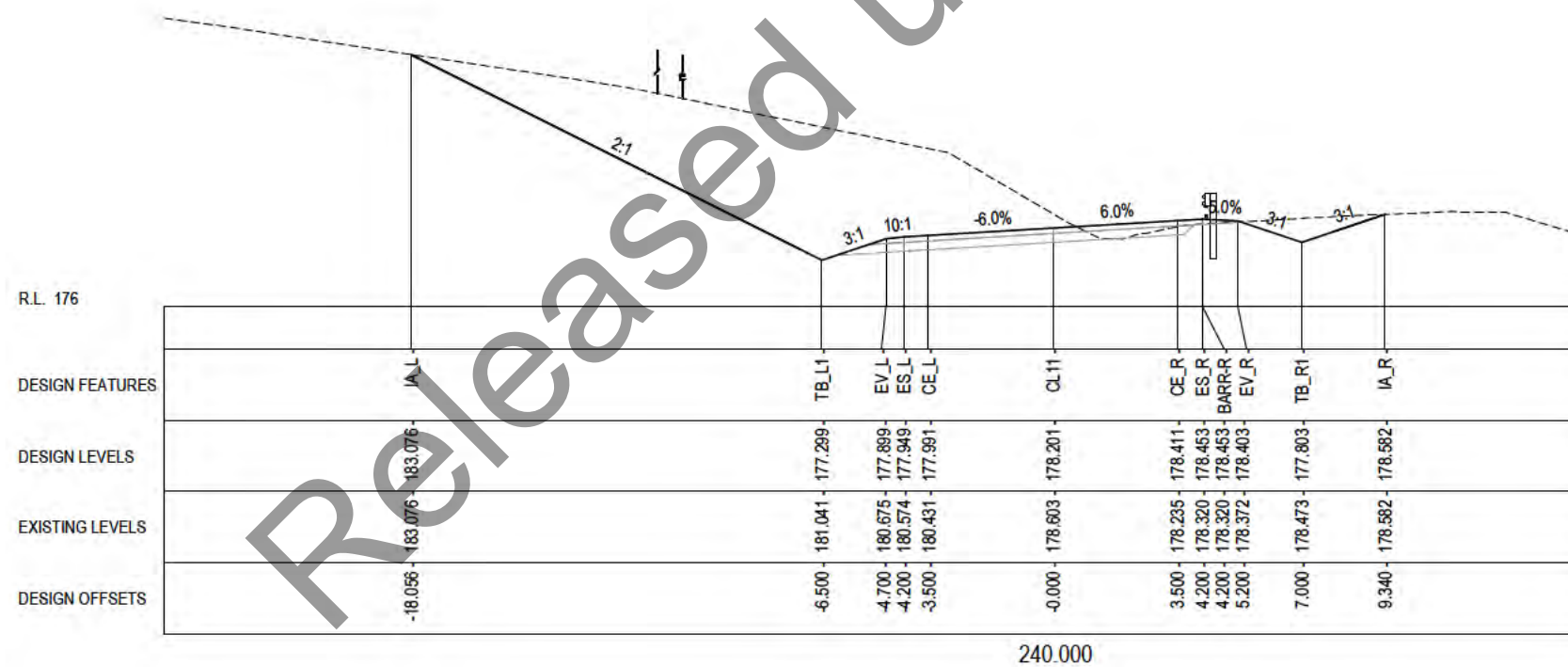
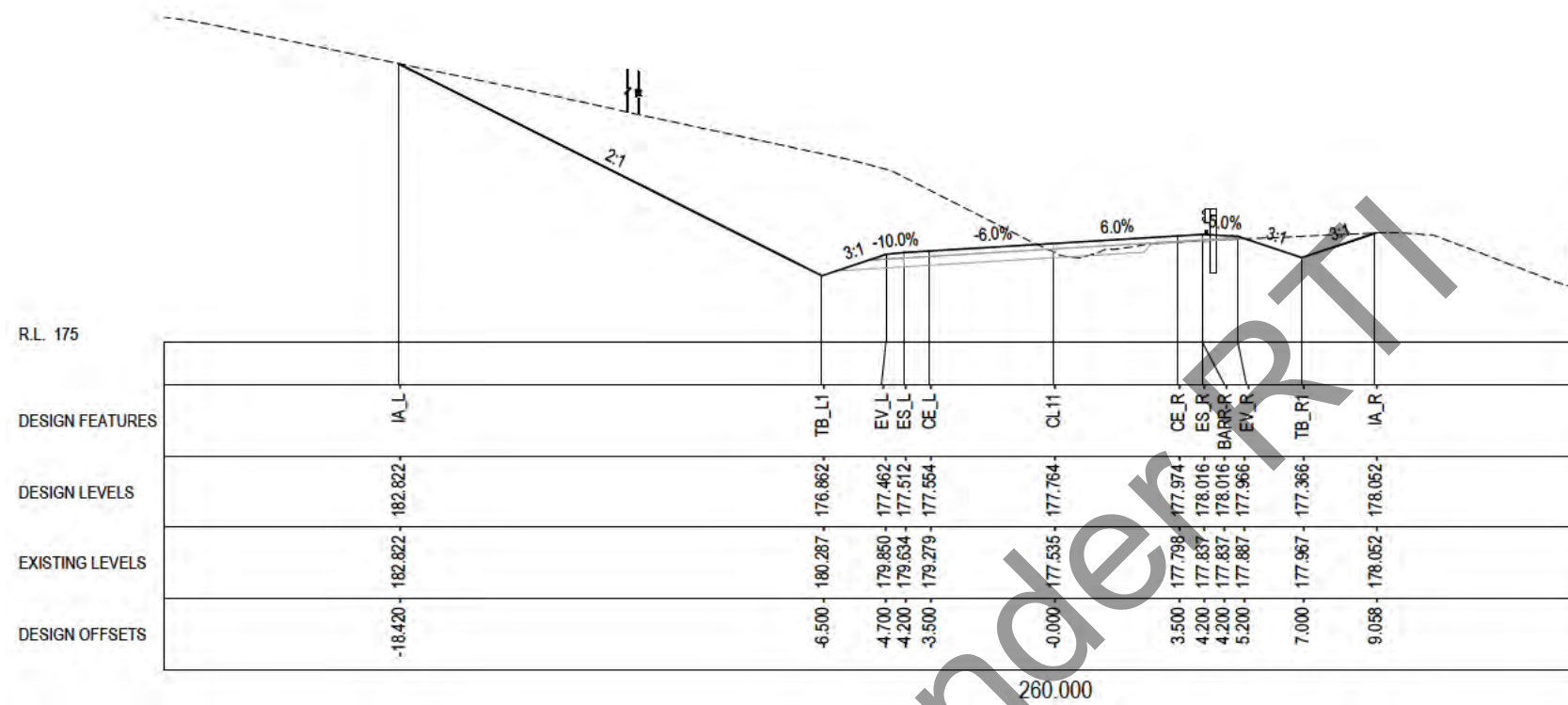


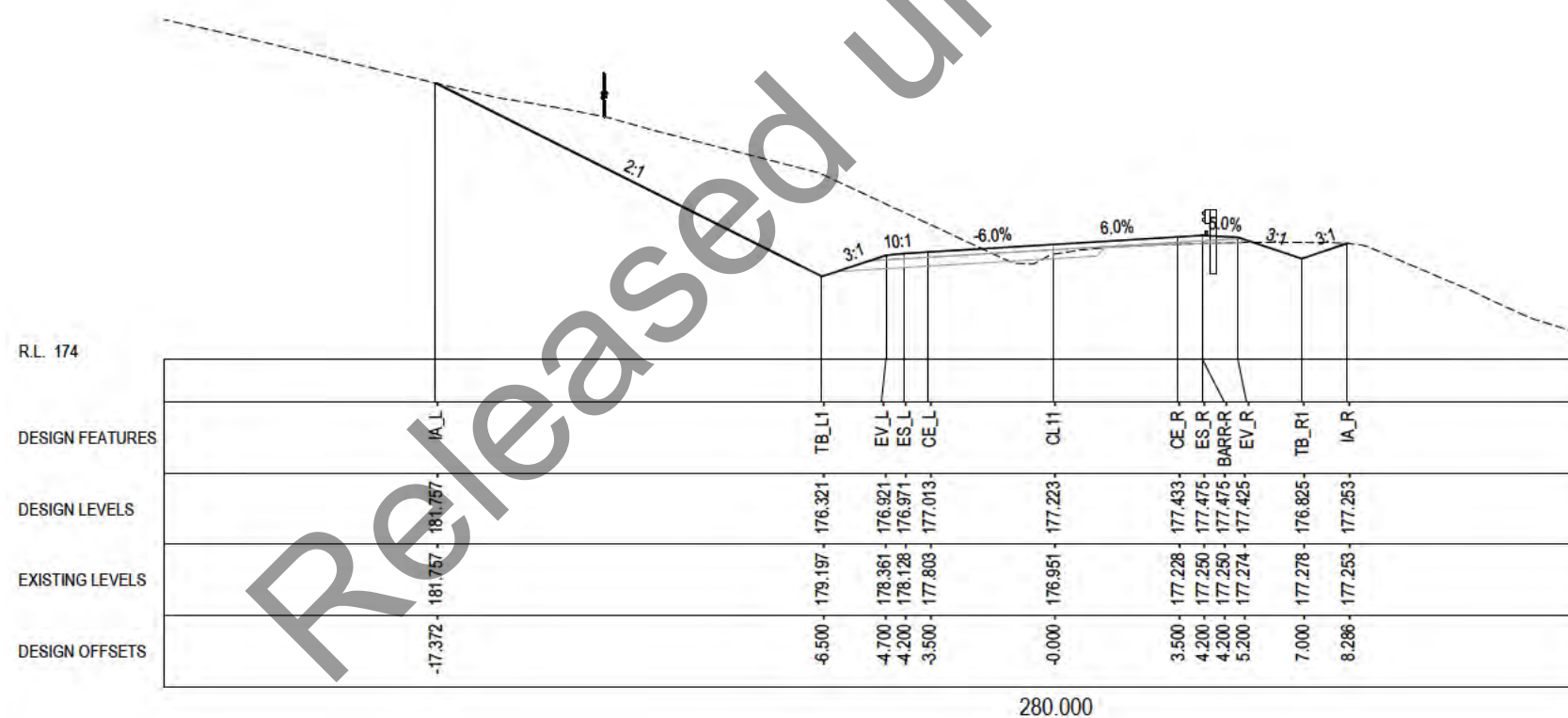
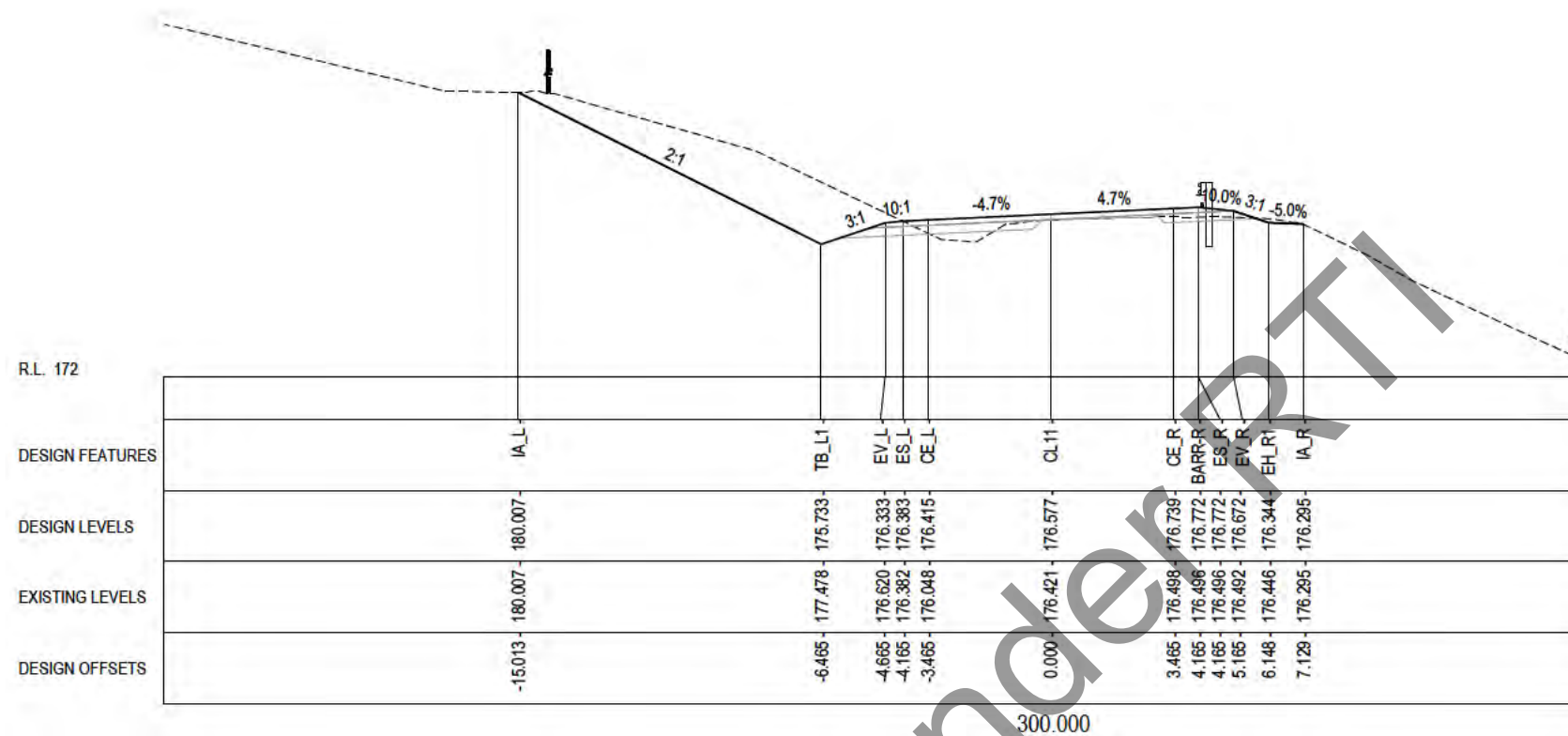
				SCALES 1:200 SCALE IN METRES - 1:200		 DESIGNED REVIEWED	 Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2) CROSS SECTIONS (DESIGN LINE CL11) - DRG 3	CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2943	PRINTED DATE 28-Jul-23, 2:15 PM	SHEET No. 2943 REVISION A
A PRELIMINARY DESIGN No. Amendment Description		L.J.B. Initials Date		Co-ordinate System: MGA-Z55 GDA20 Height Datum: A.H.D.				REGISTRATION NUMBER A1701.002			
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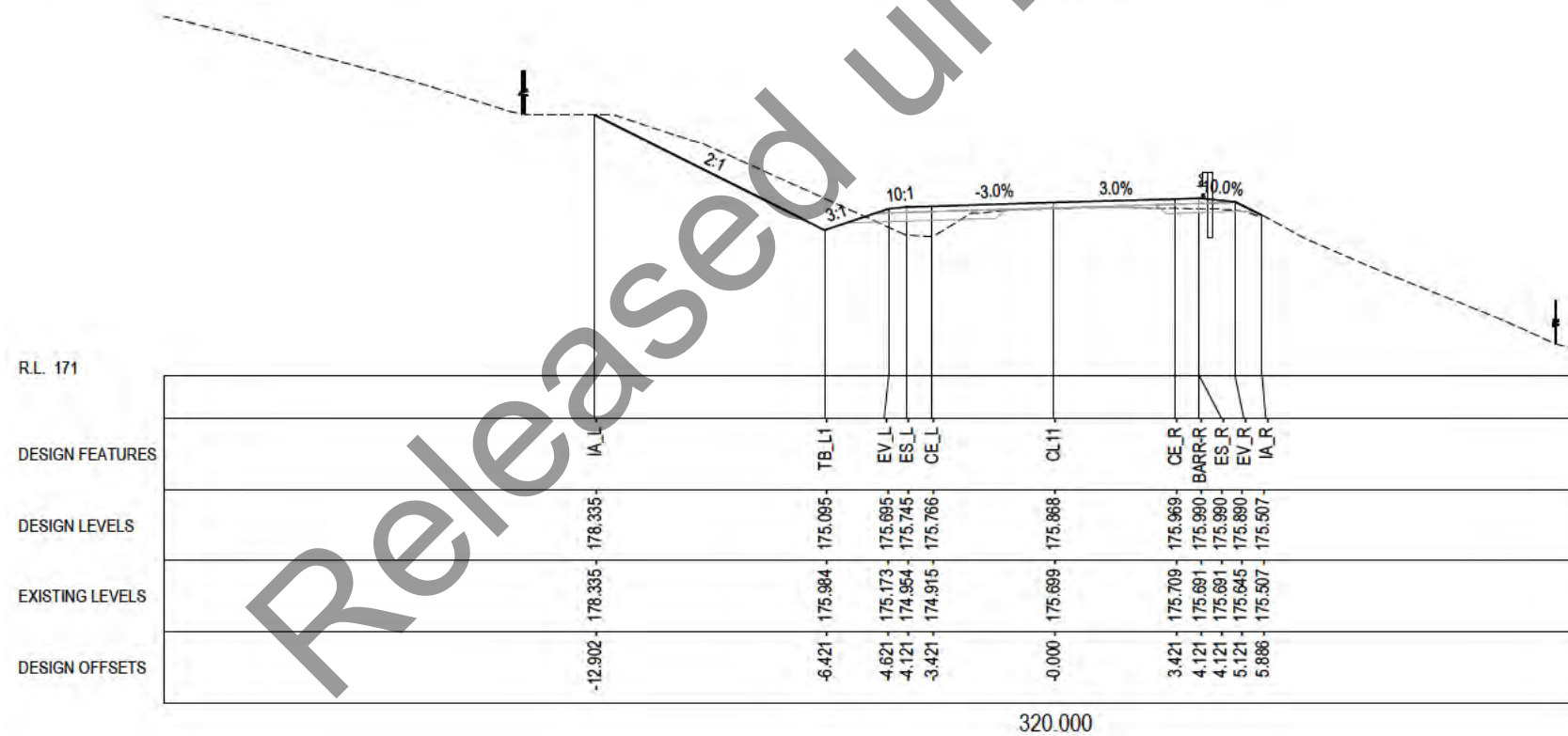
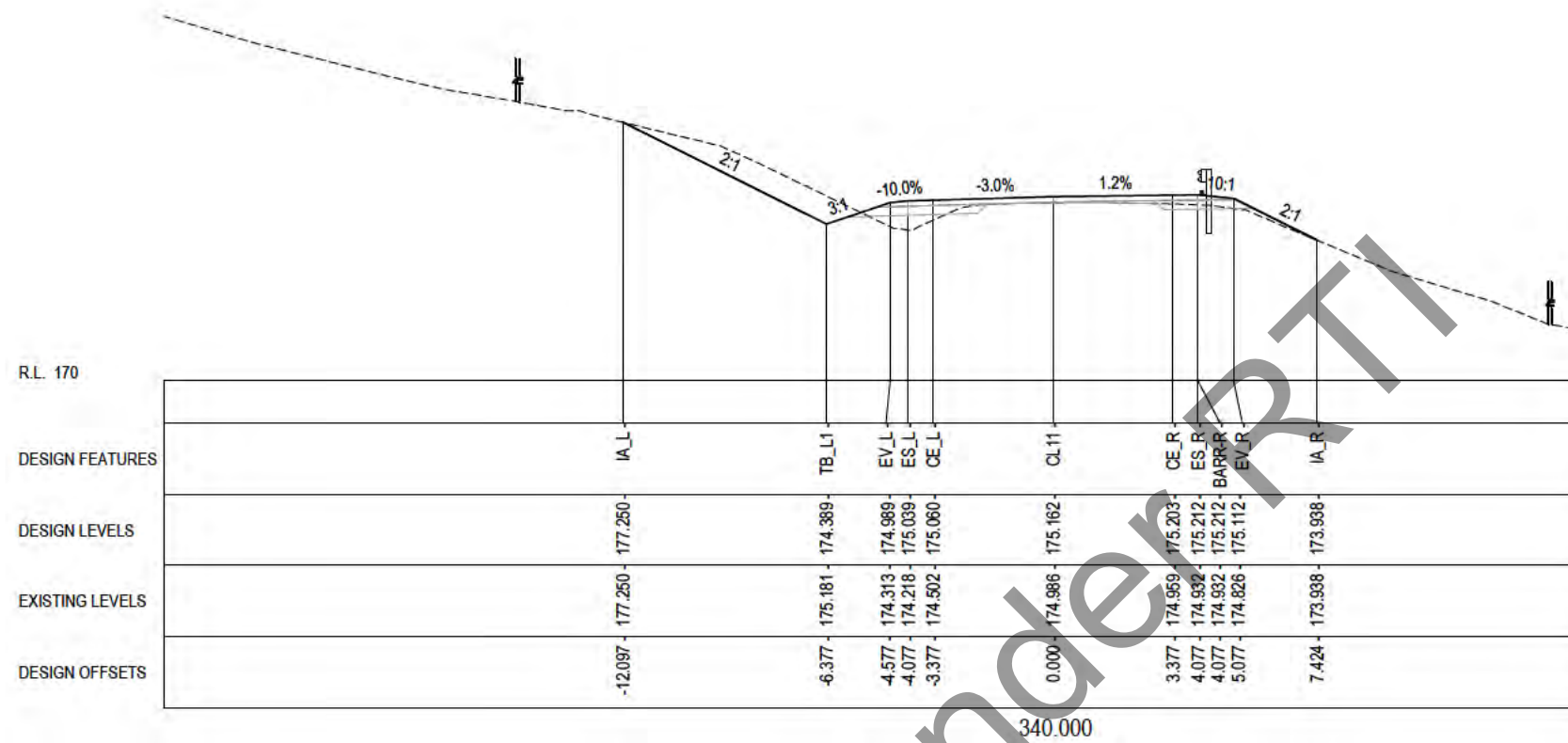






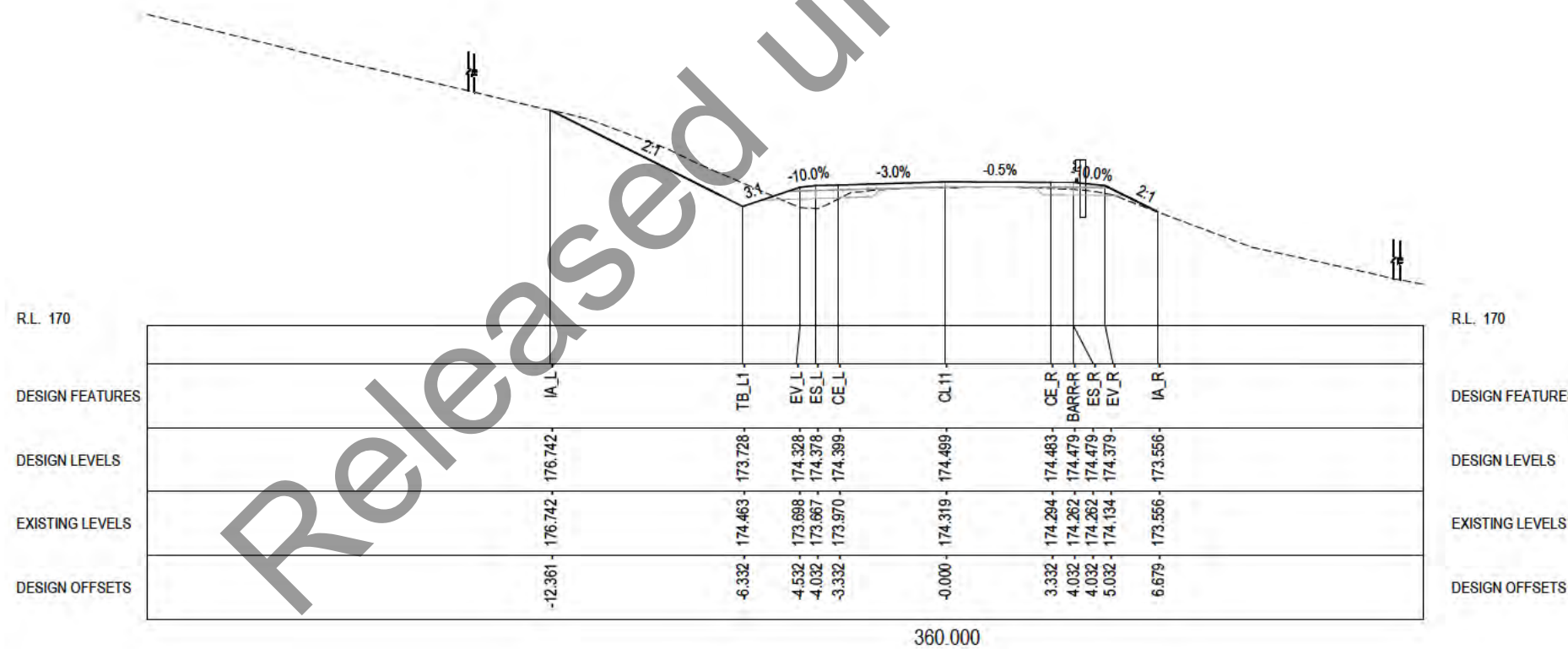
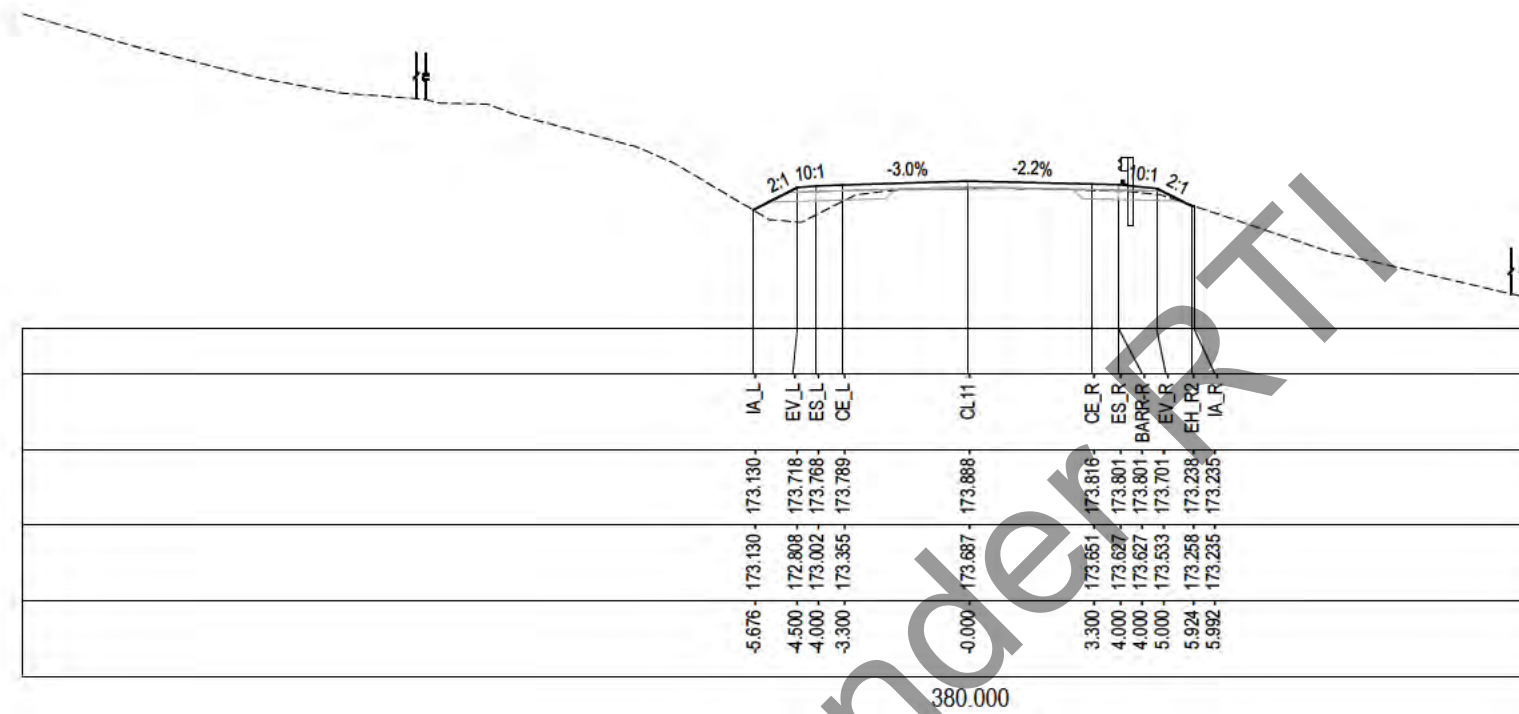


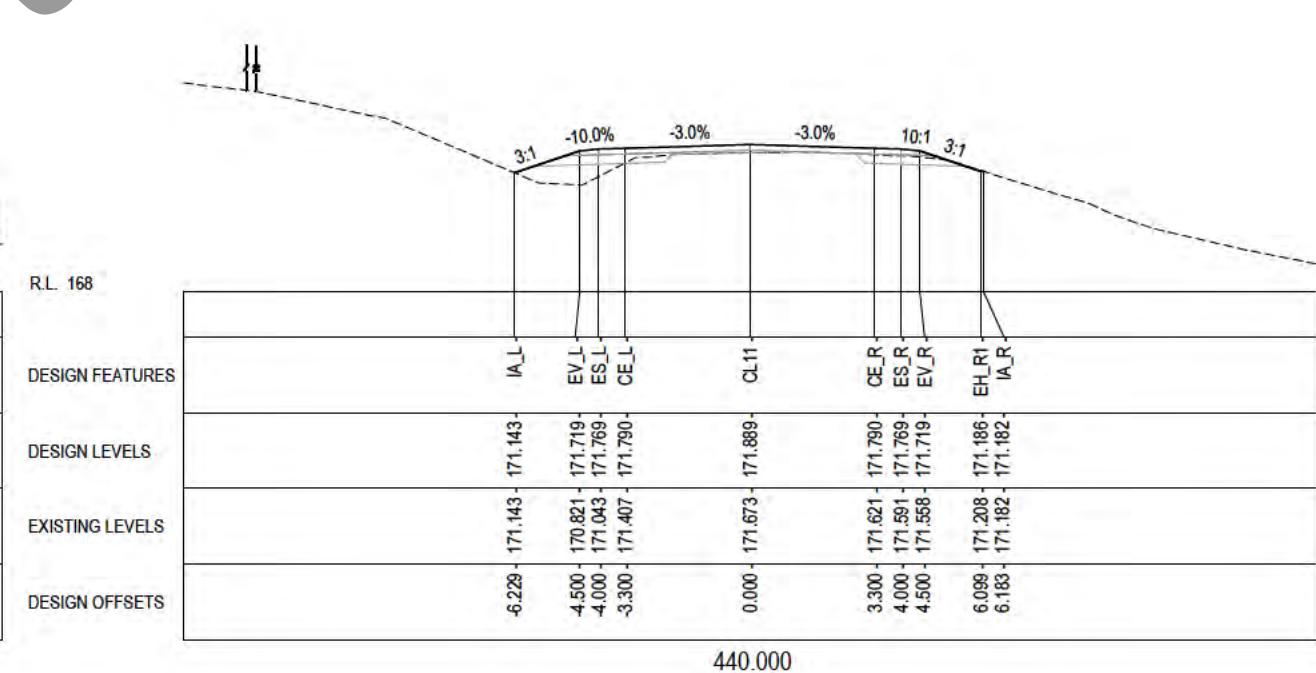
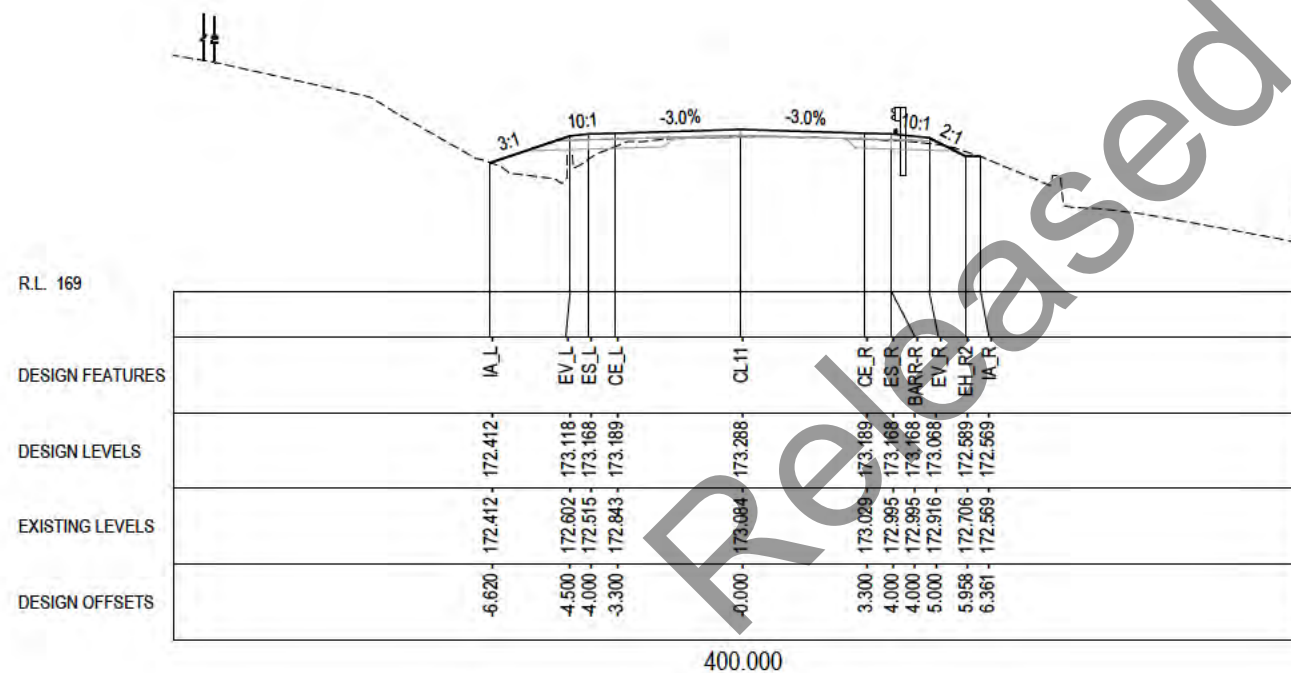
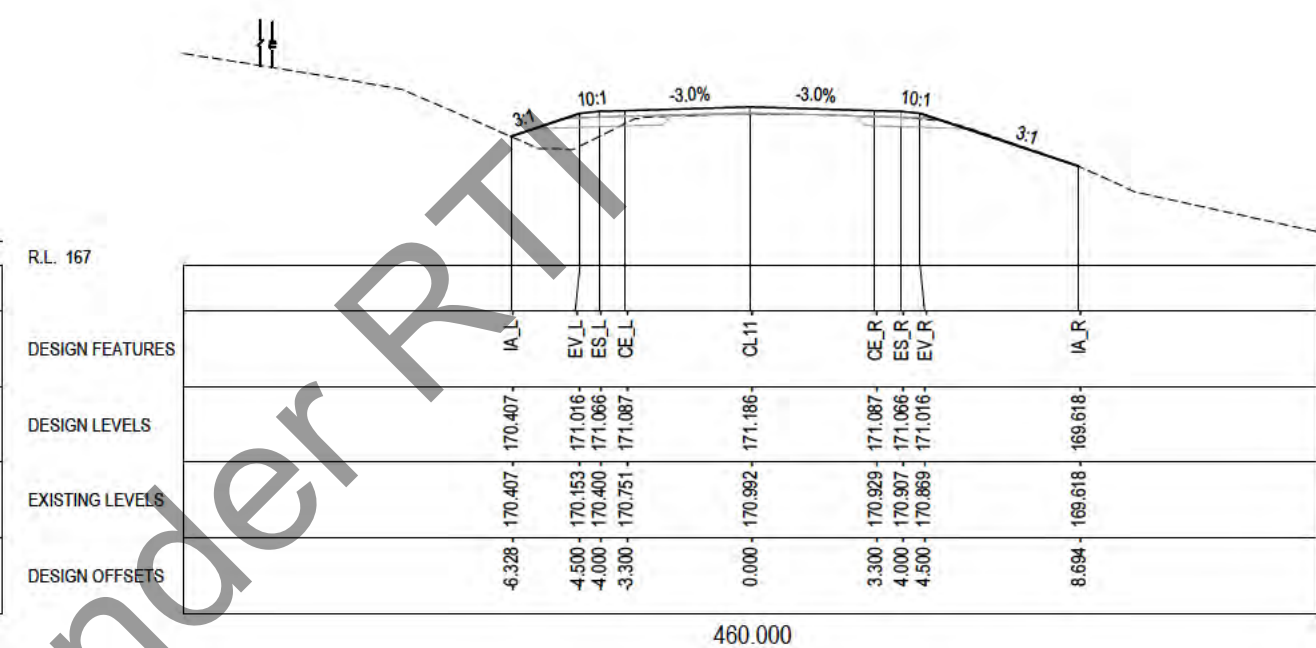
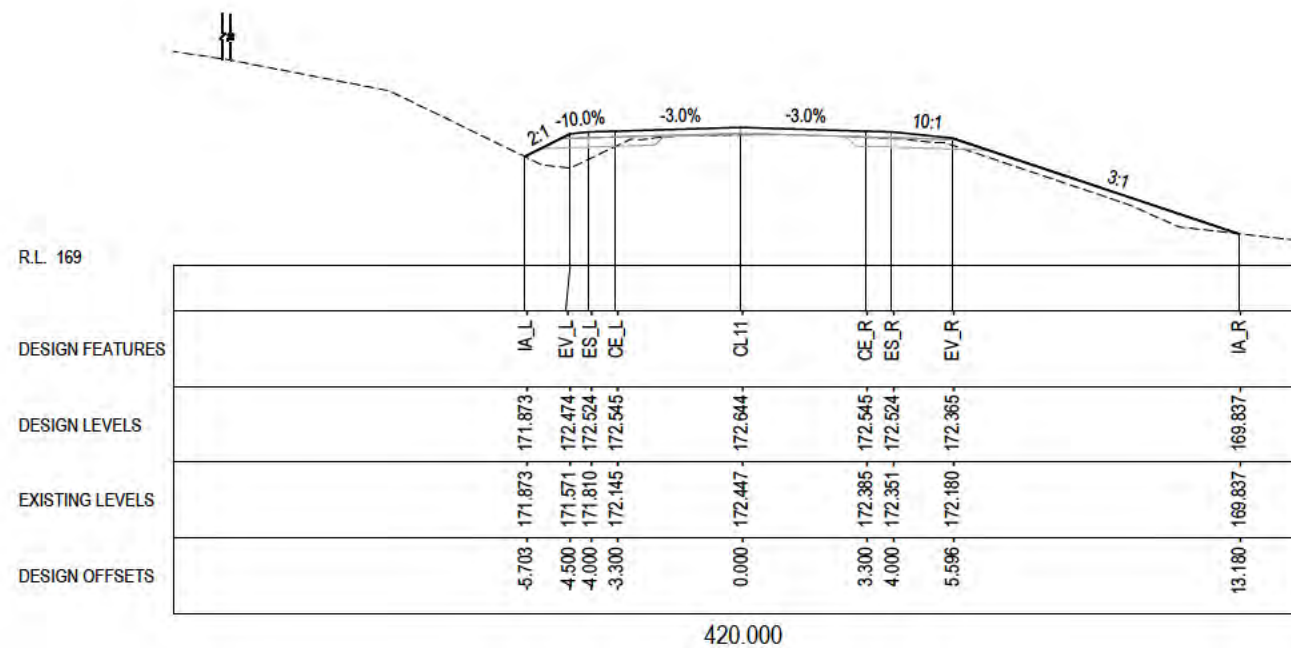
				SCALES 1:200 SCALE IN METRES - 1:200		pitt&sherry DESIGNED REVIEWED		Department of State Growth BIRRALEE MAIN ROAD (A1701) WESTBURY INDUSTRIAL ESTATE TO SELBOURNE ROAD ROADWORKS (PACKAGE 2) CROSS SECTIONS (DESIGN LINE CL11) - DRG 8		CONTRACT No. 3521	DRAWING S-P.20.2000-00-CIV-DRG-2948	PRINTED DATE 28-Jul-23, 2:15 PM	SHEET No. 2948
A PRELIMINARY DESIGN No. Amendment Description		L.J.B. Initials		28/07/2023 Date						REGISTRATION NUMBER A1701.002		REVISION A	
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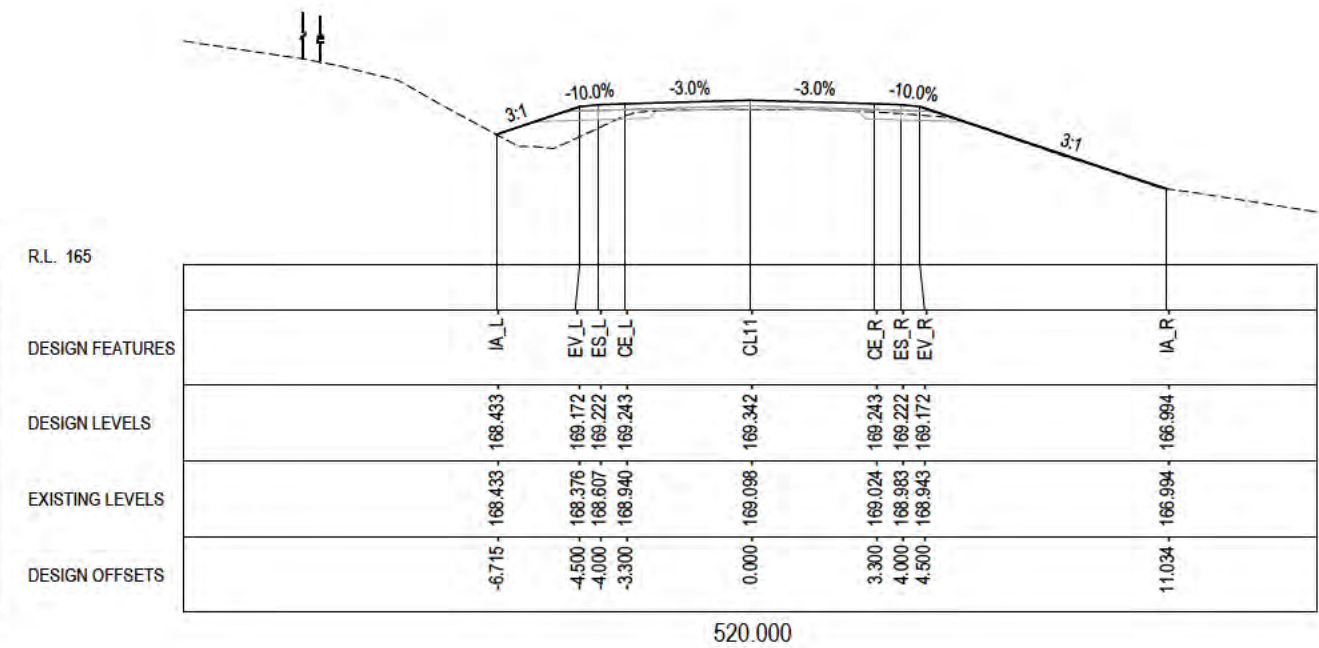
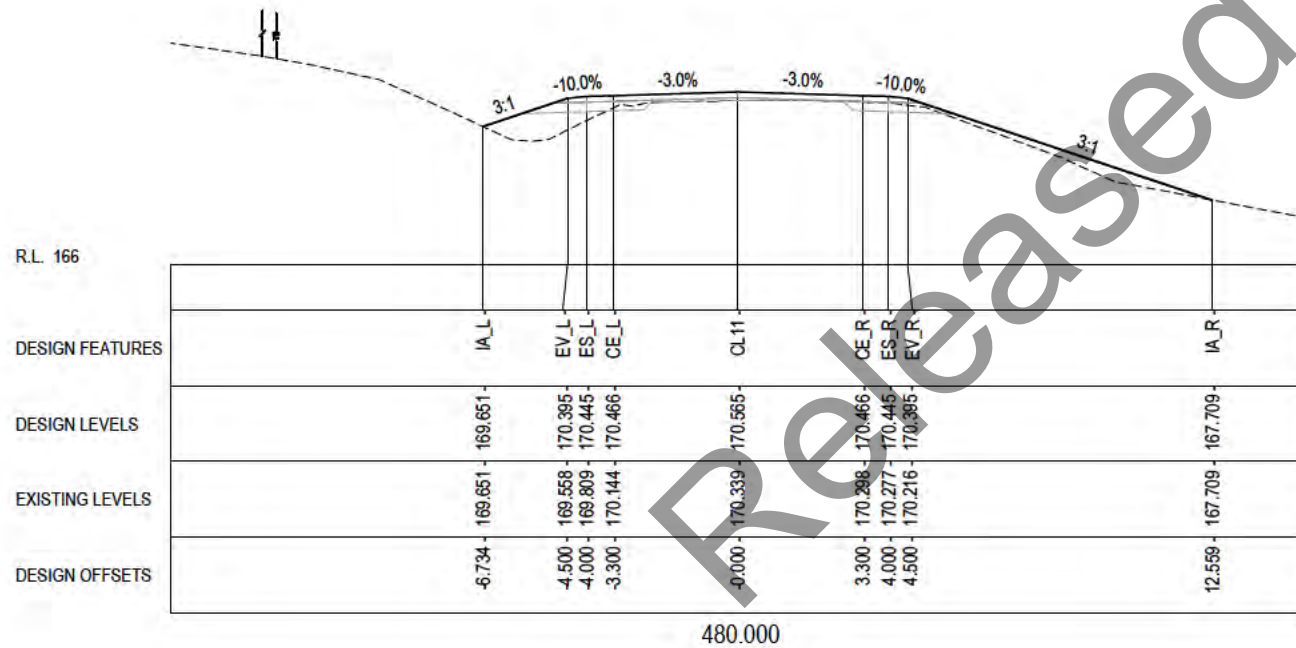
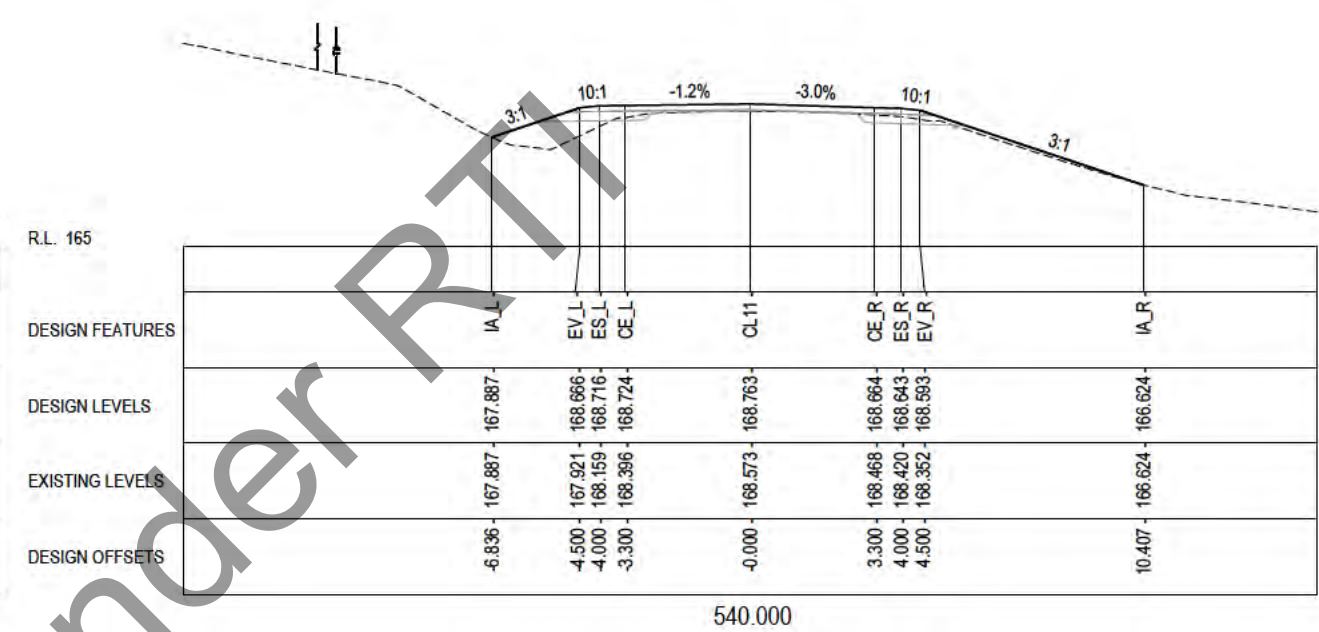
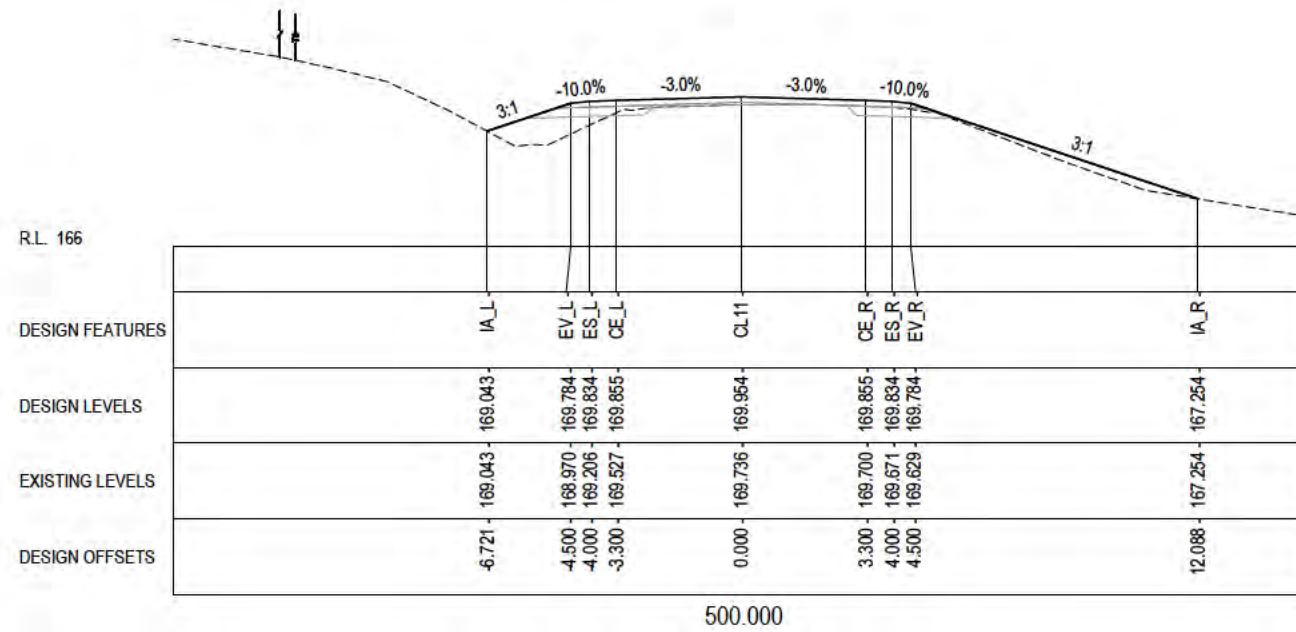


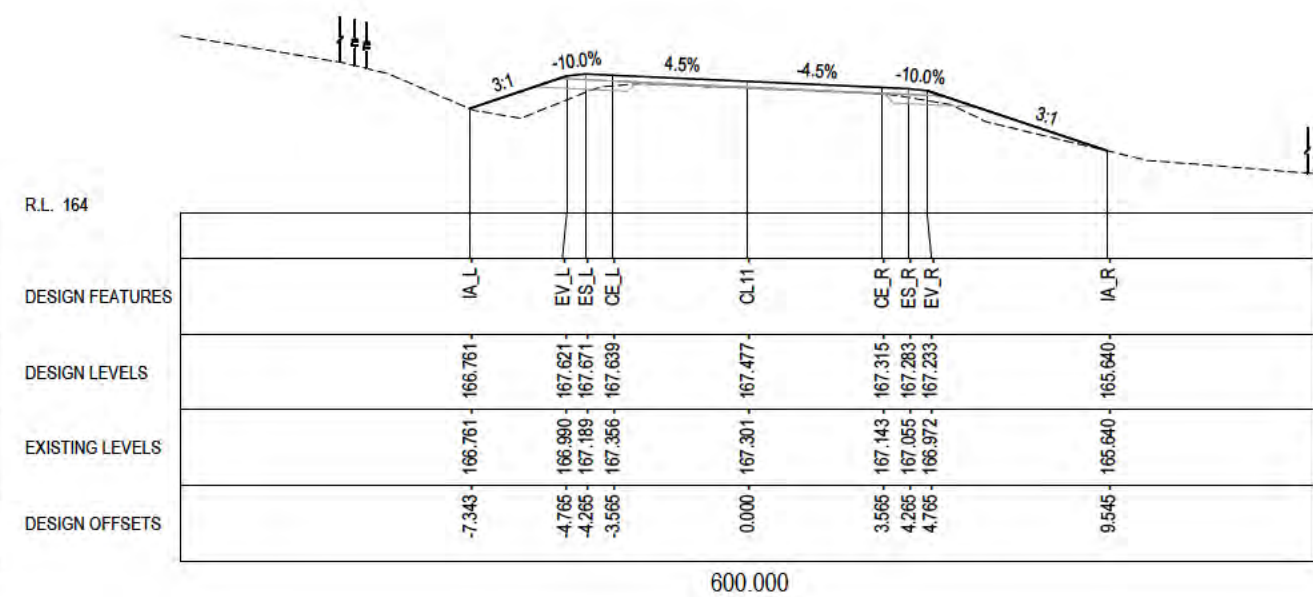
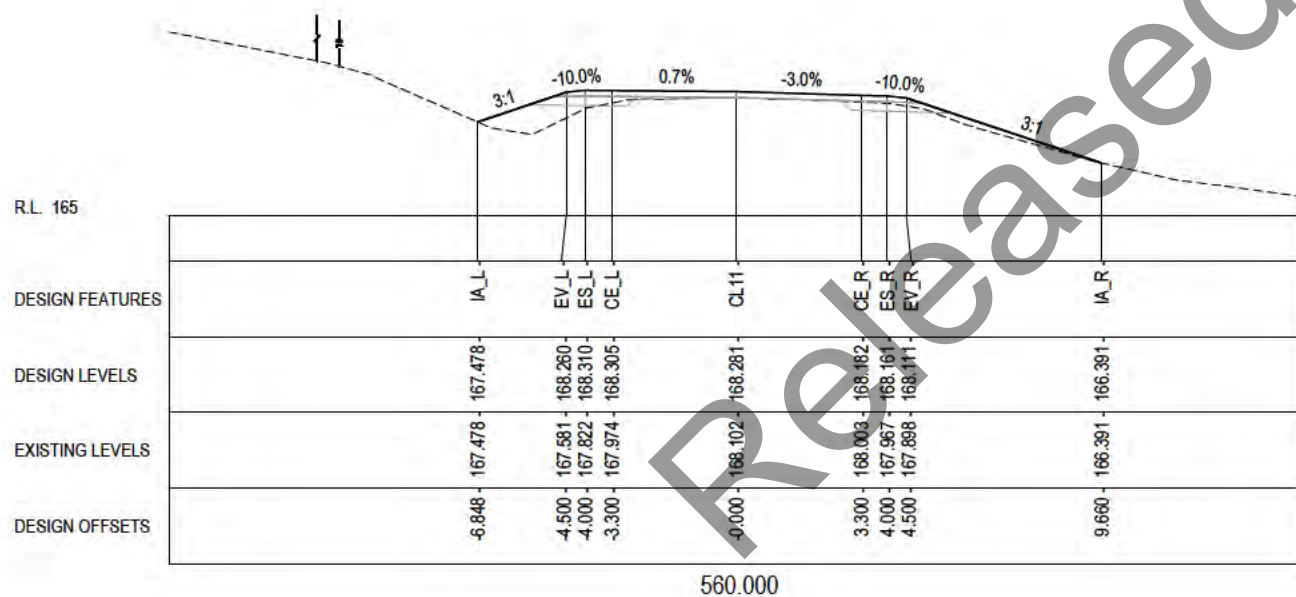
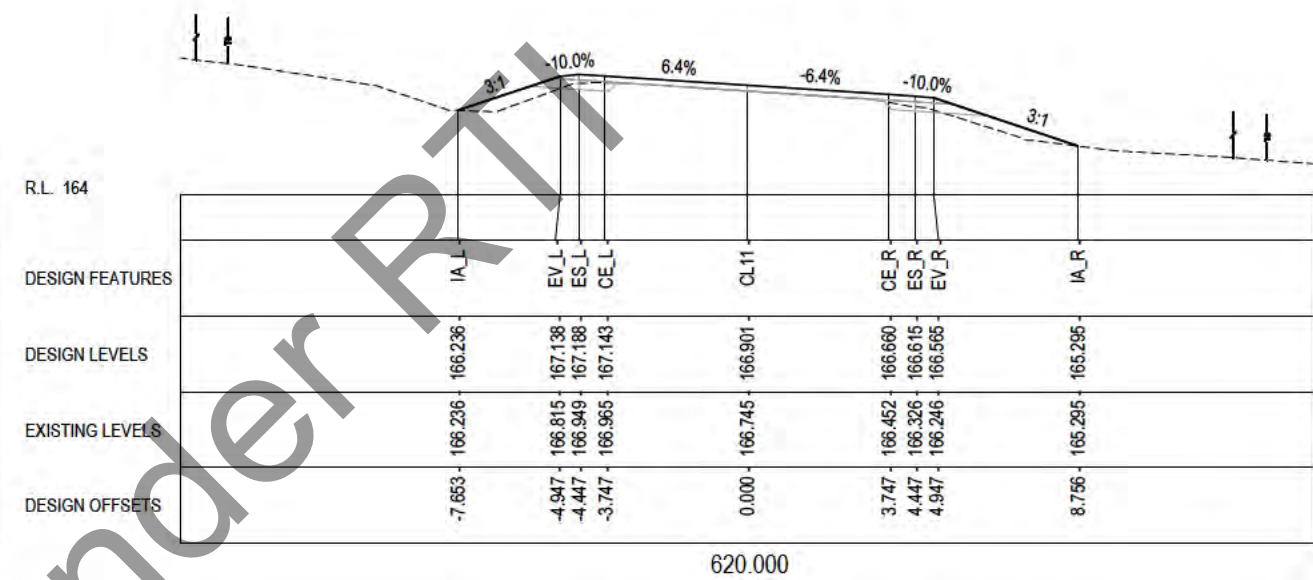
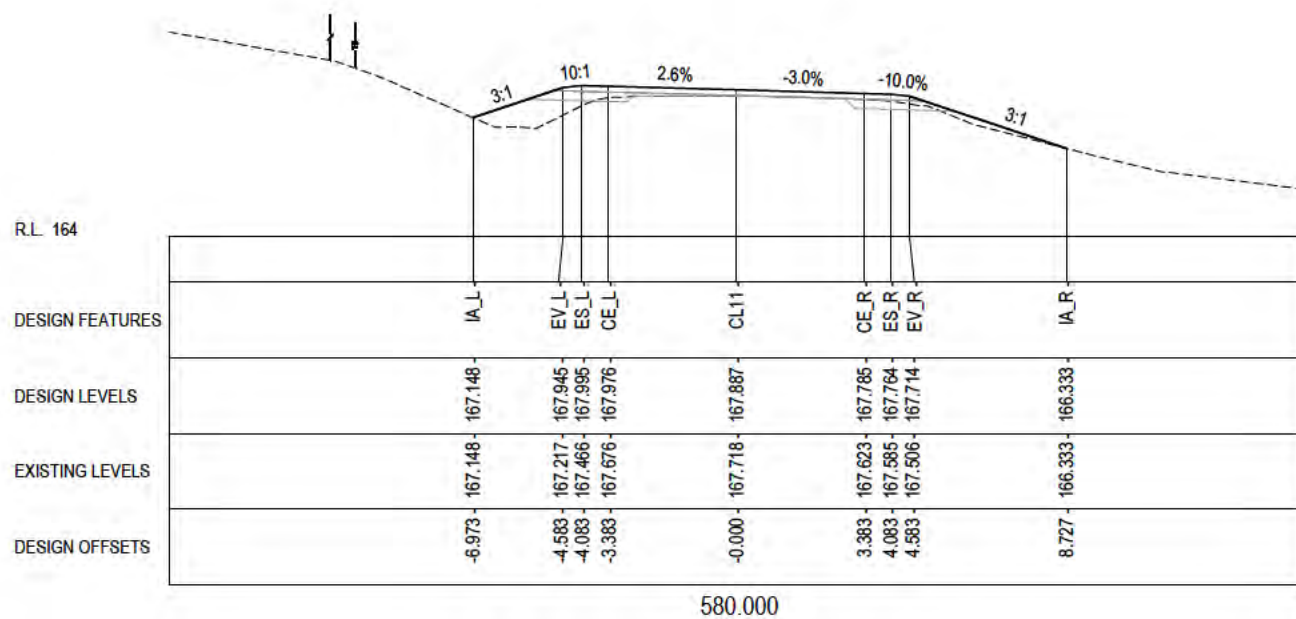
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A PRELIMINARY DESIGN L.J.B. 28/07/2023		No. Amendment Description Initials Date		Co-ordinate System: MGA-Z55 GDA20 Height Datum: A.H.D.		DESIGNED REVIEWED		CROSS SECTIONS (DESIGN LINE CL11) - DRG 9		REGISTRATION NUMBER A1701.002		REVISION A	

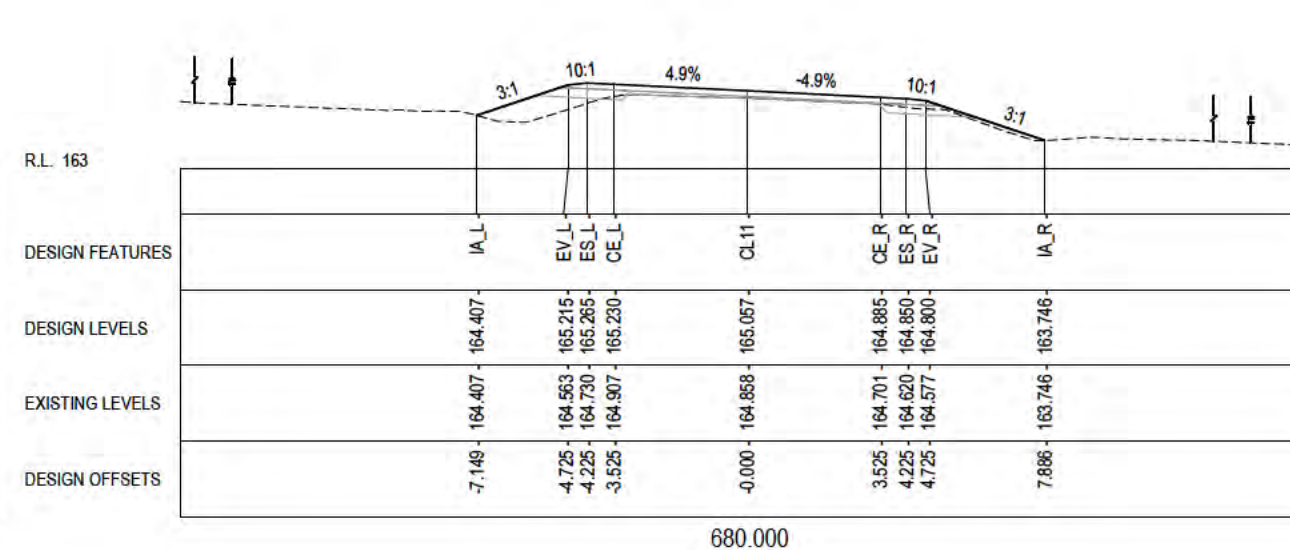
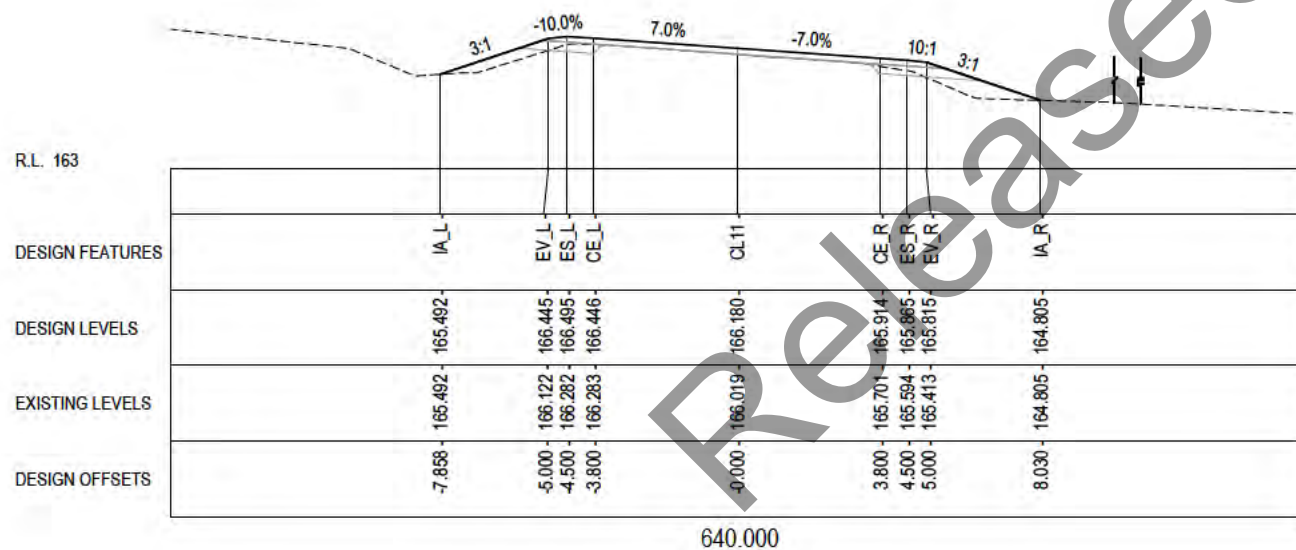
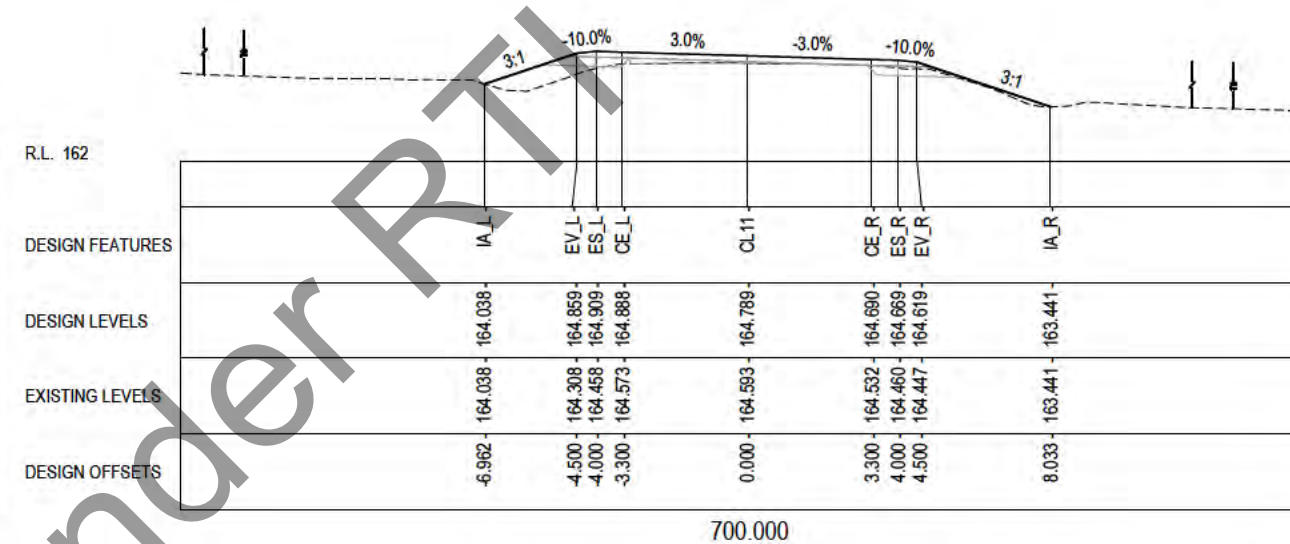
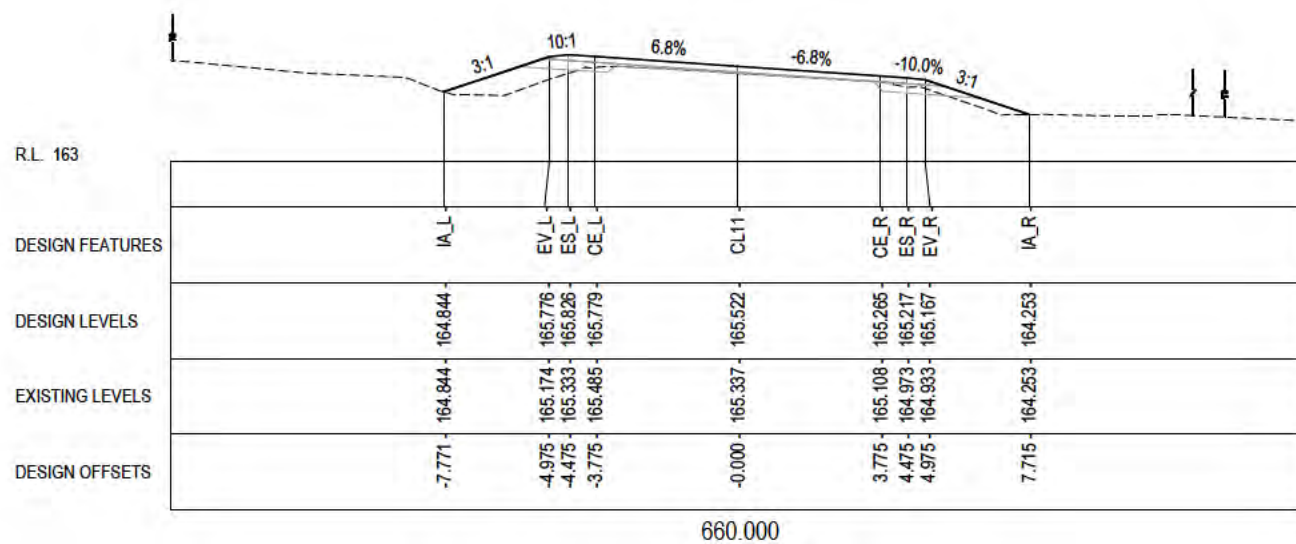
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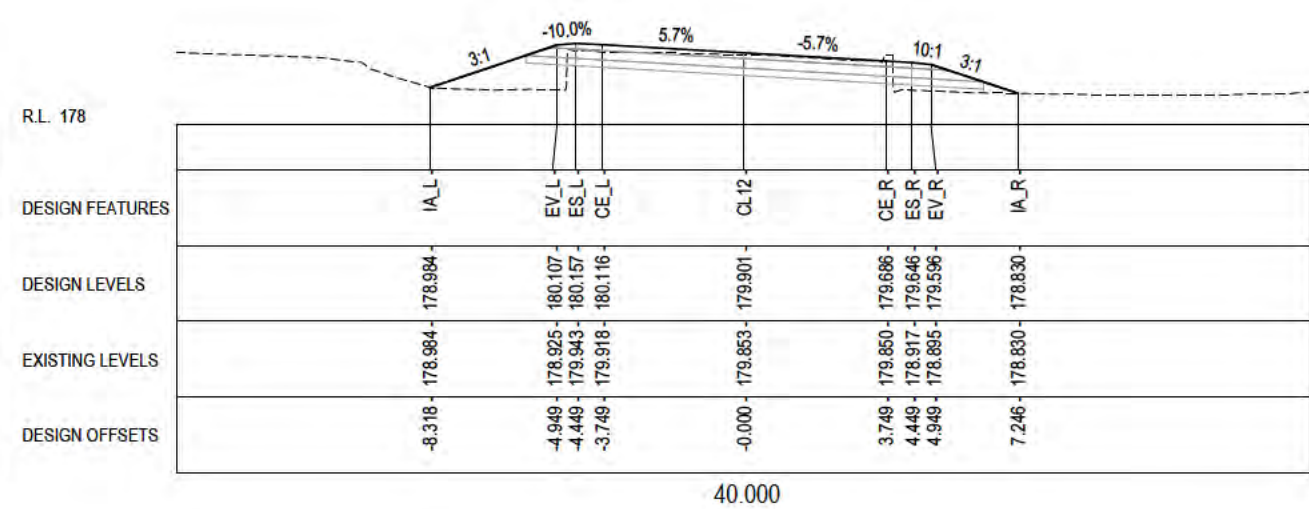
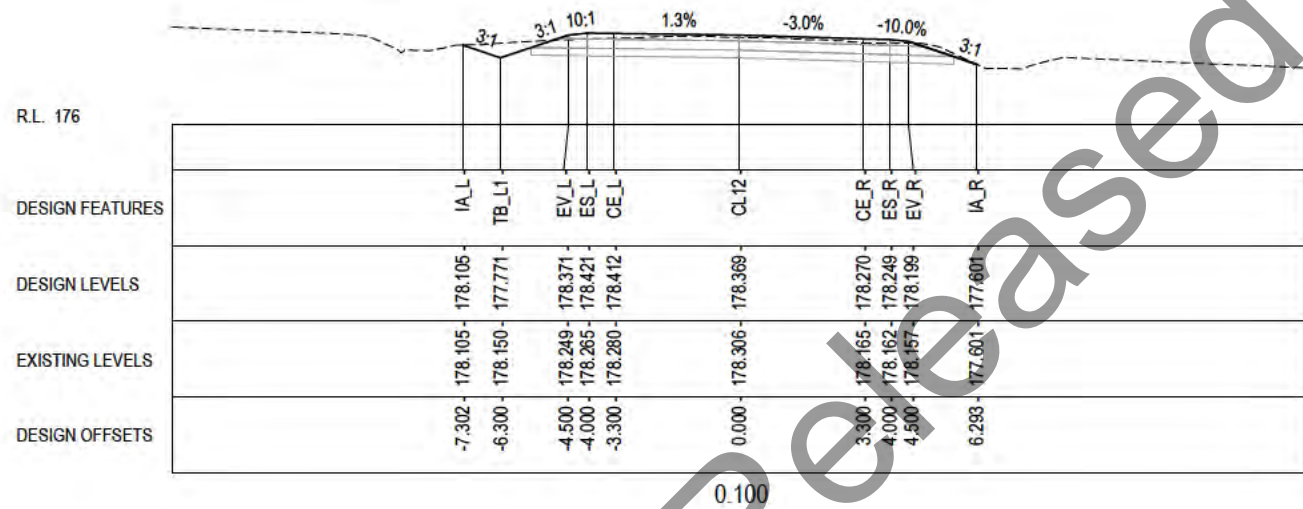
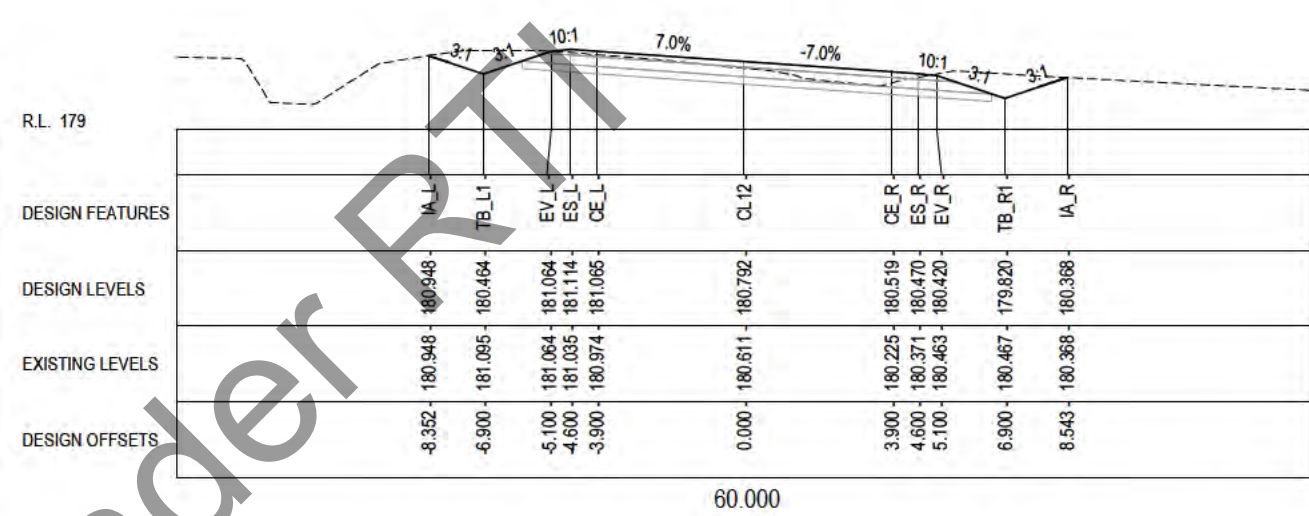
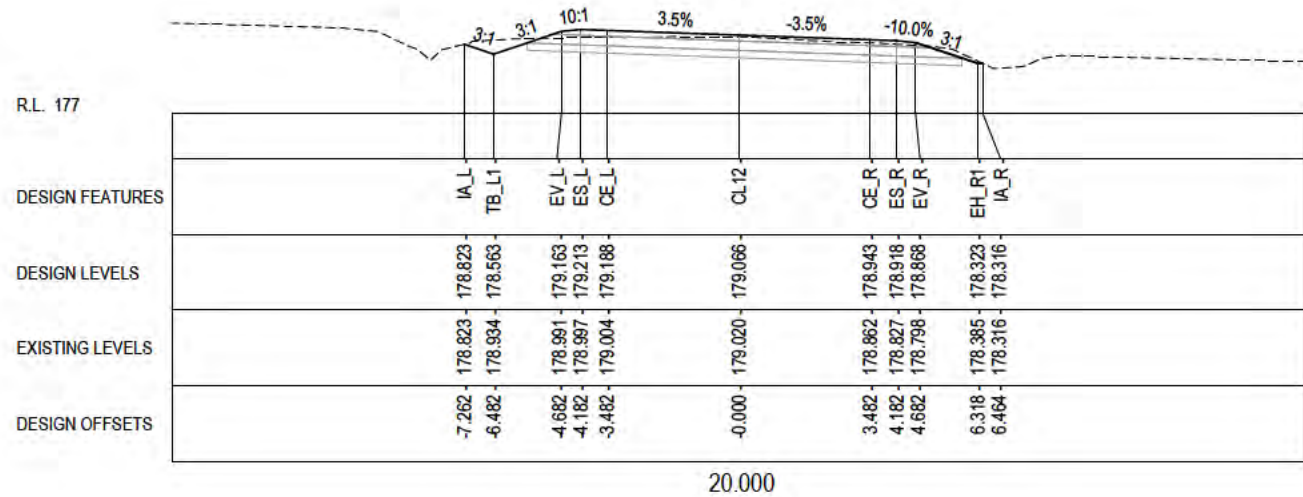


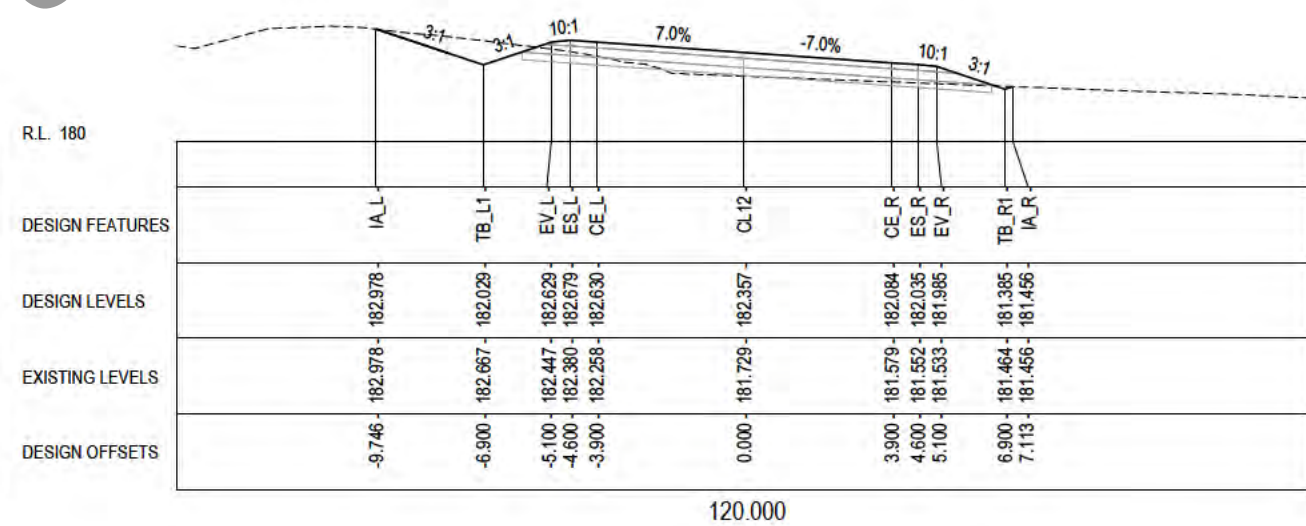
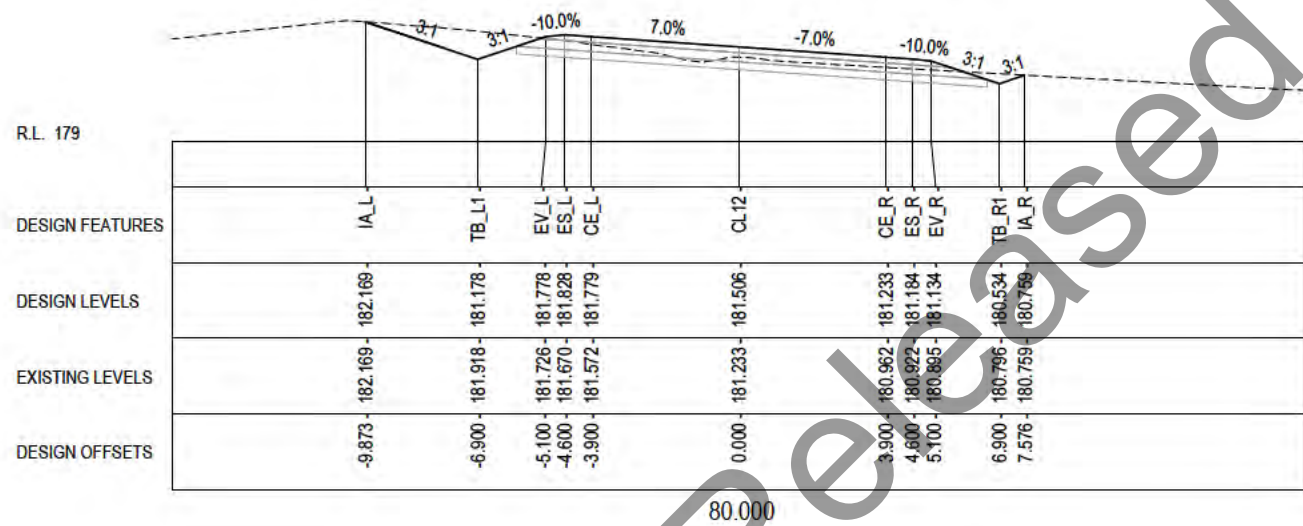
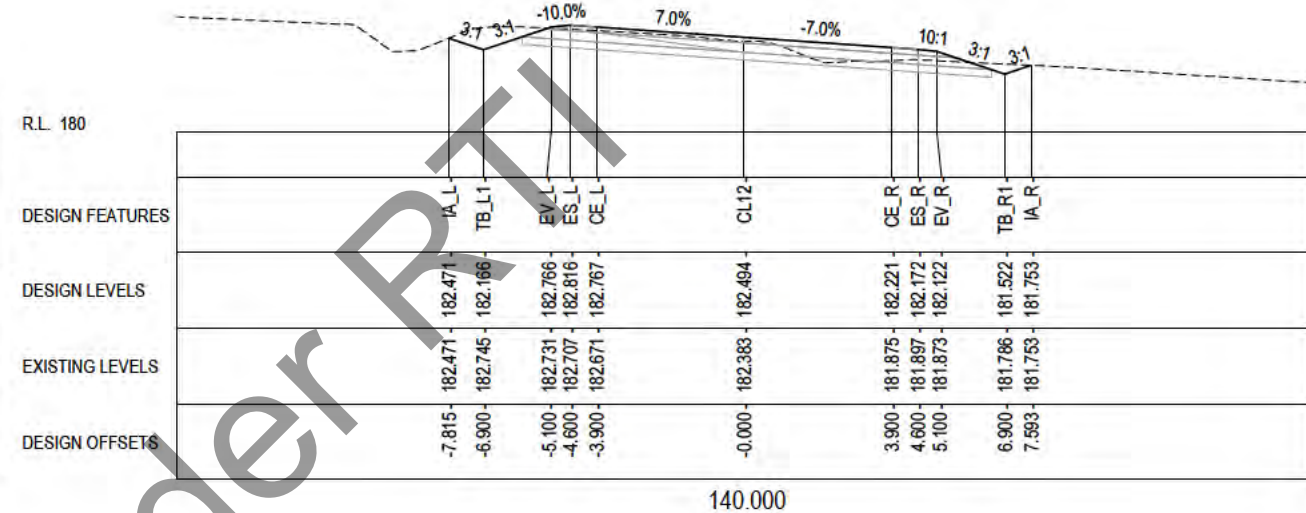
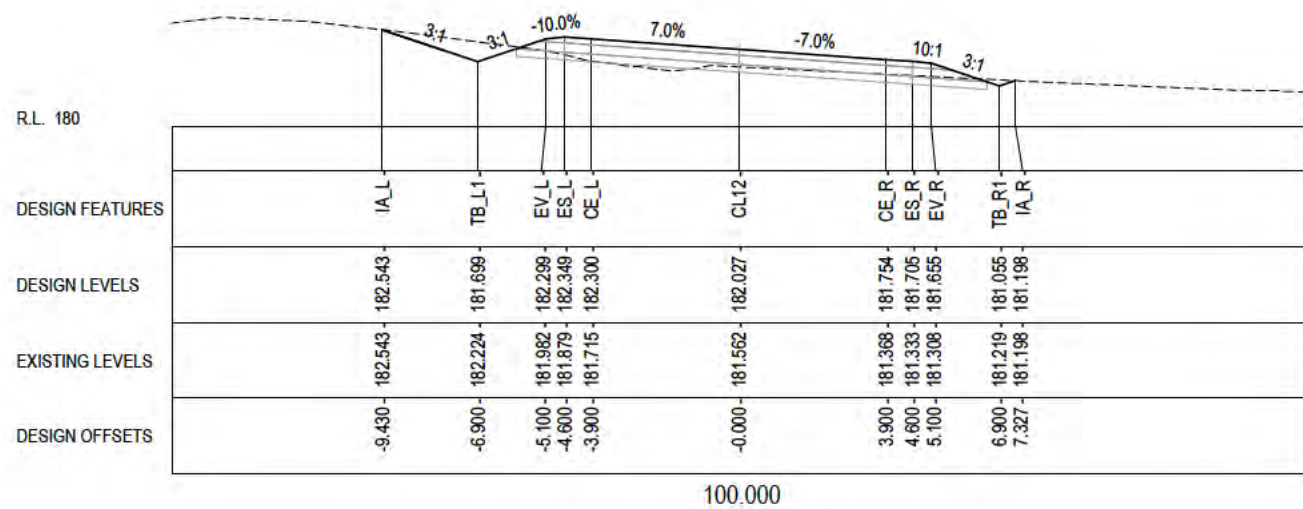


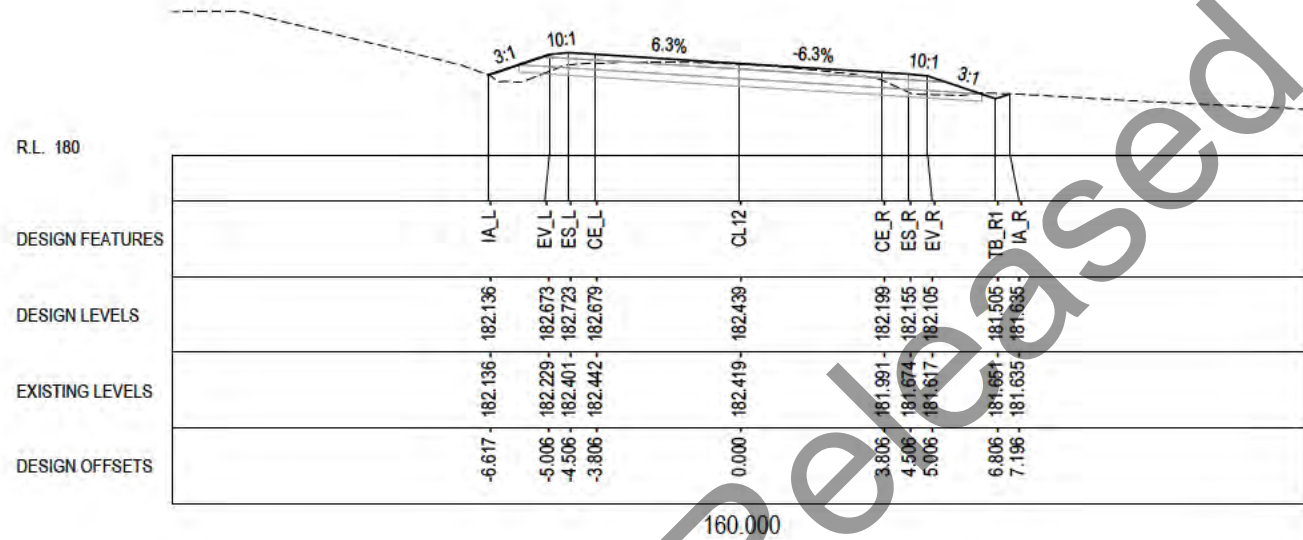
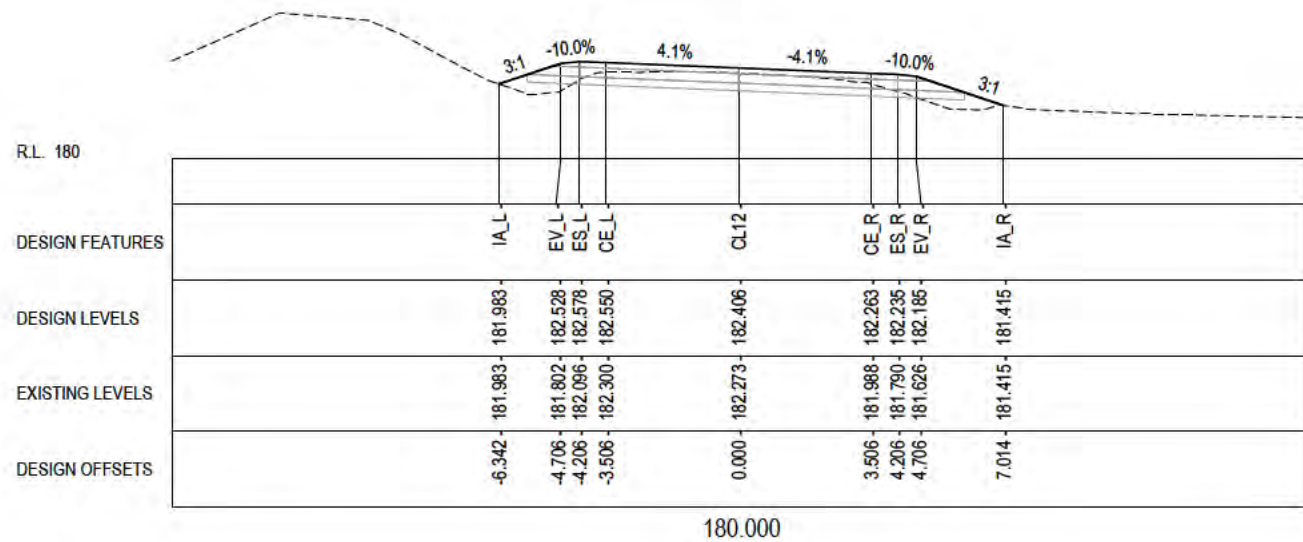


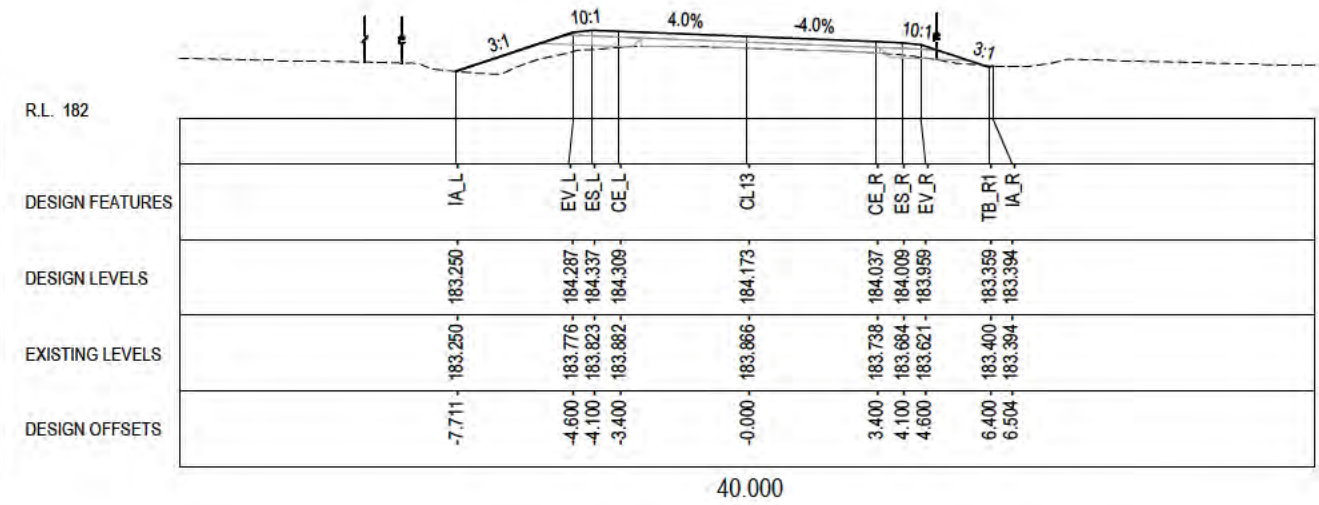
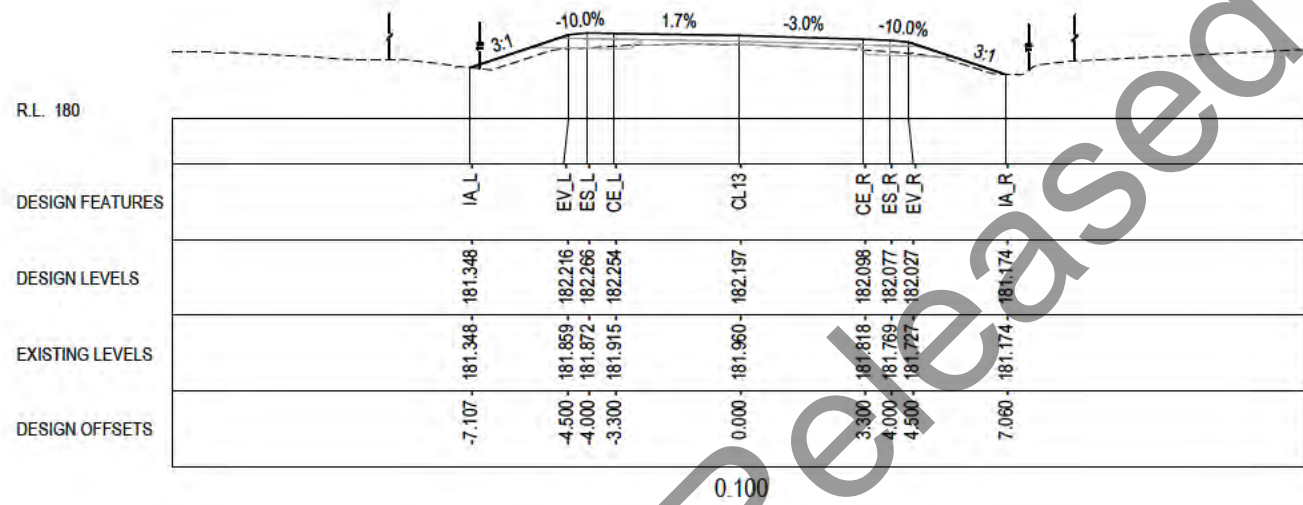
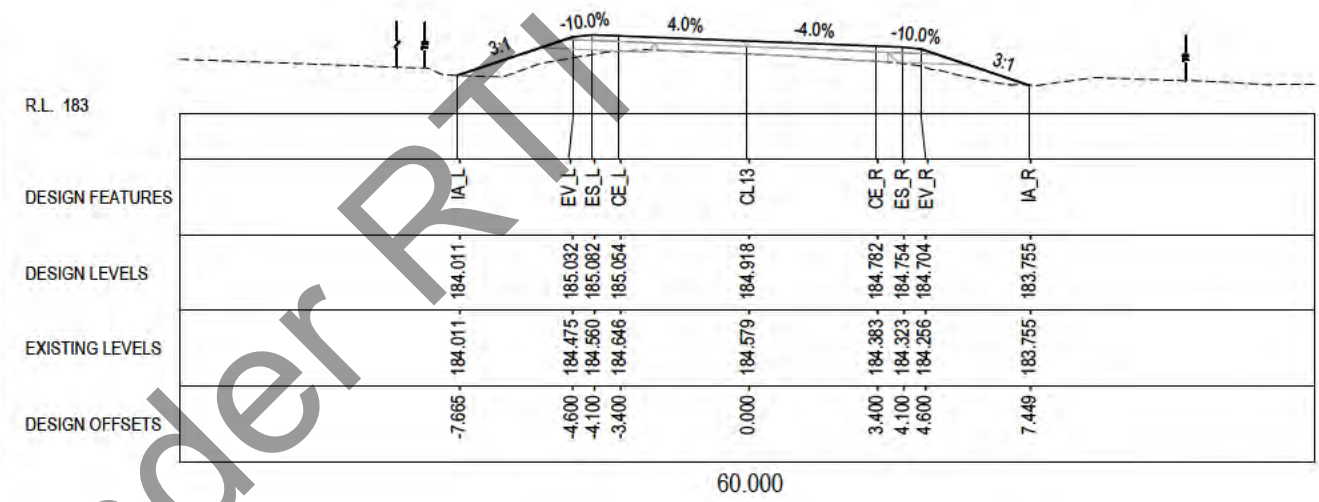
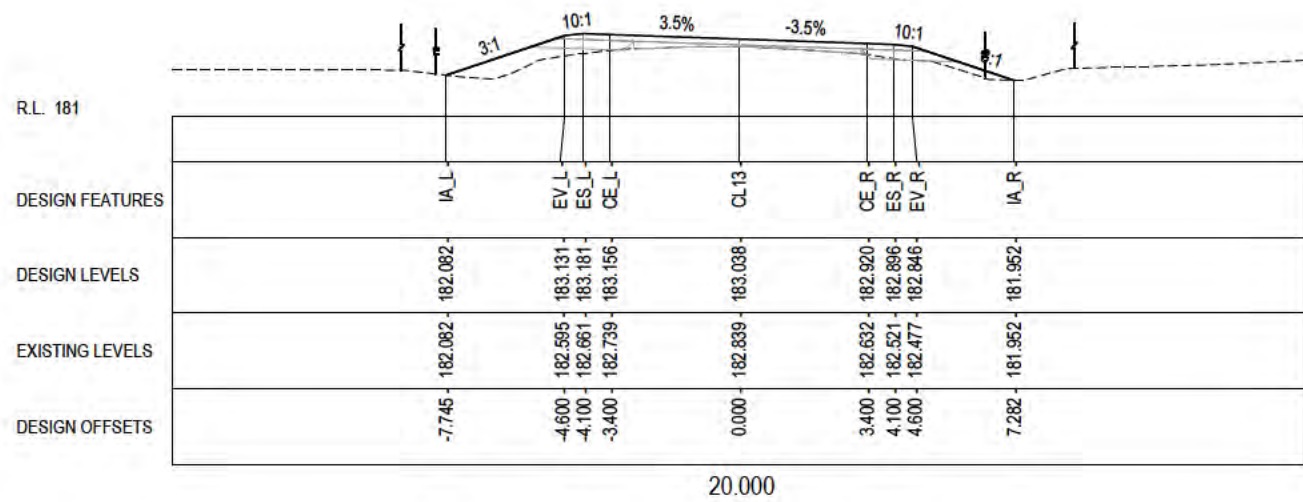


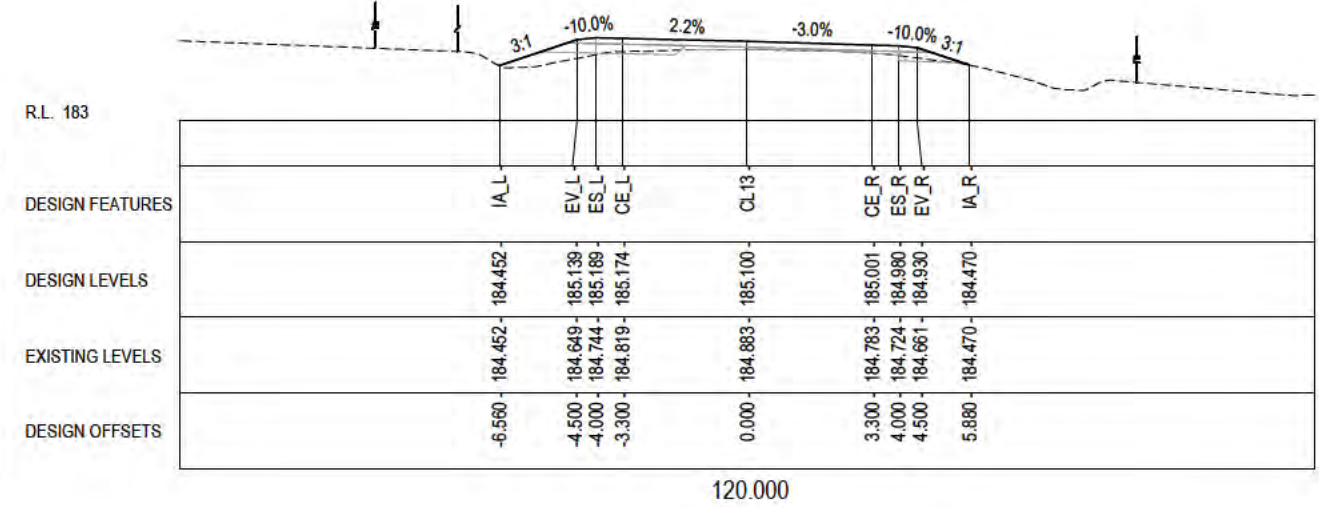
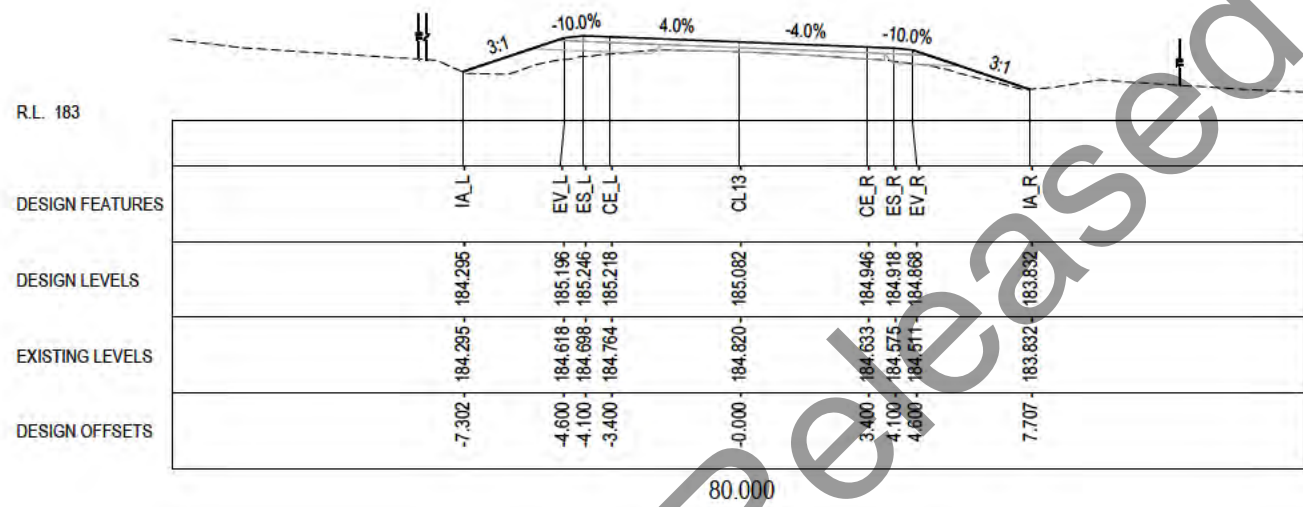
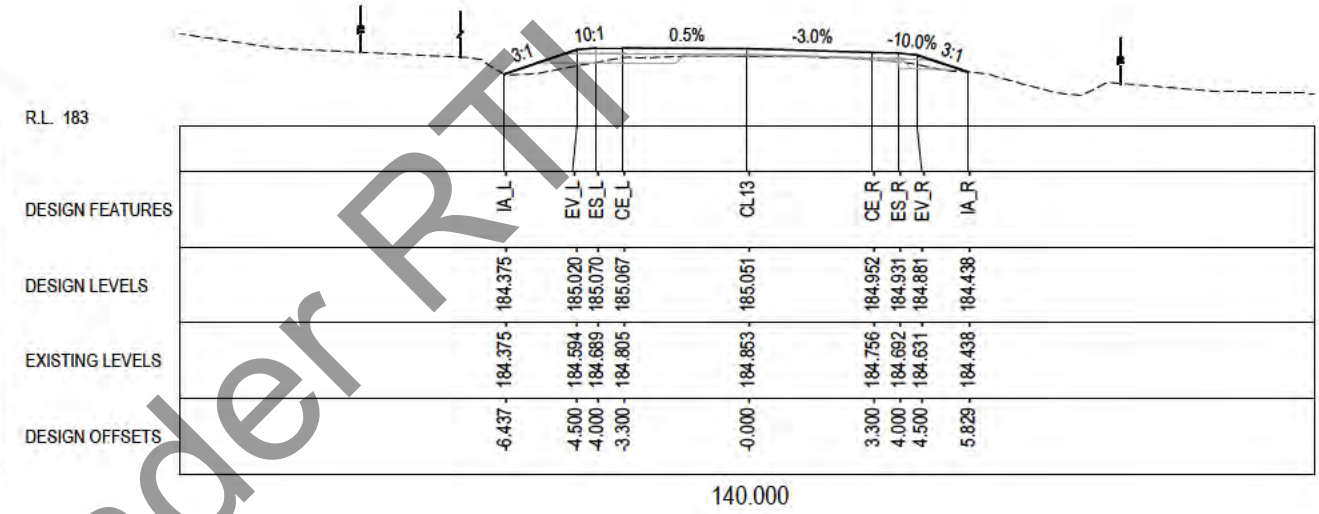
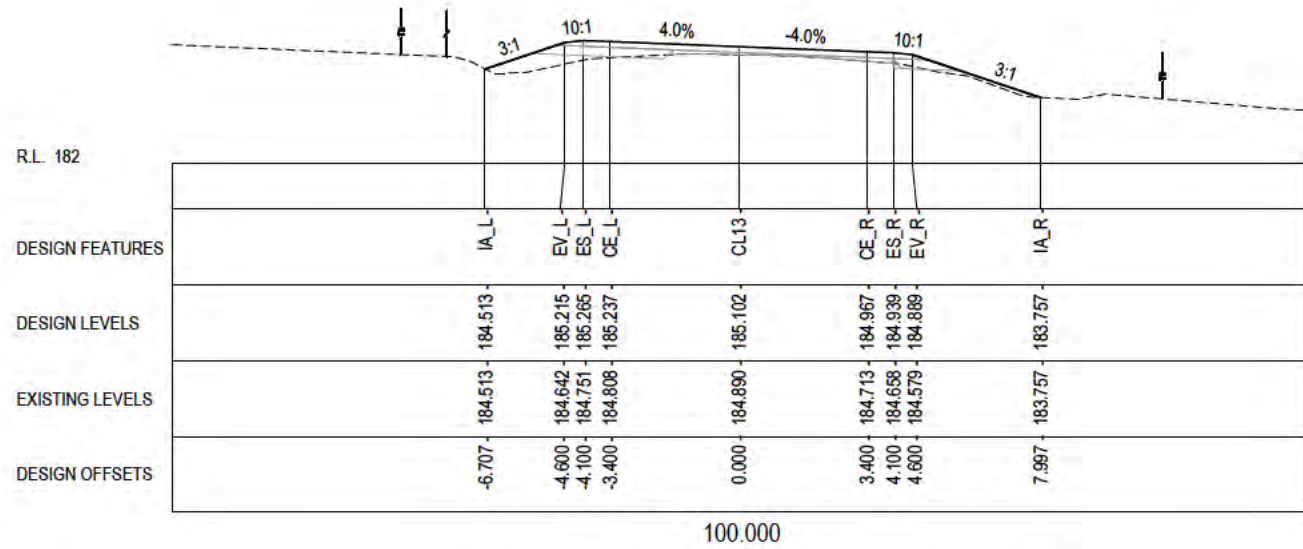
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A PRELIMINARY DESIGN No. Amendment Description		L.J.B. Initials		28/07/2023 Date						REGISTRATION NUMBER A1701.002		REVISION A	
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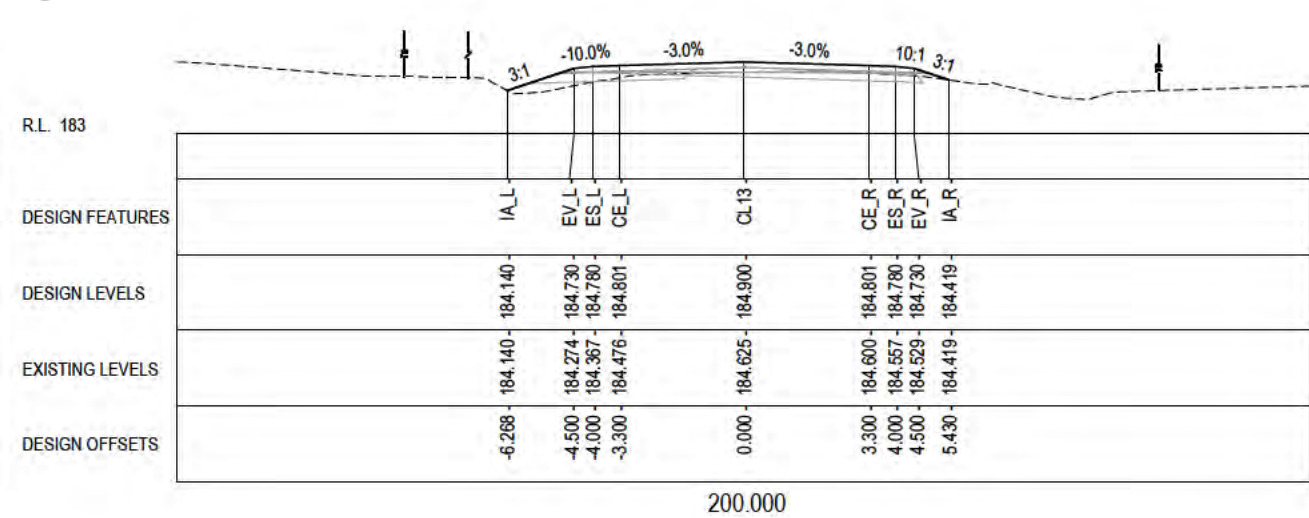
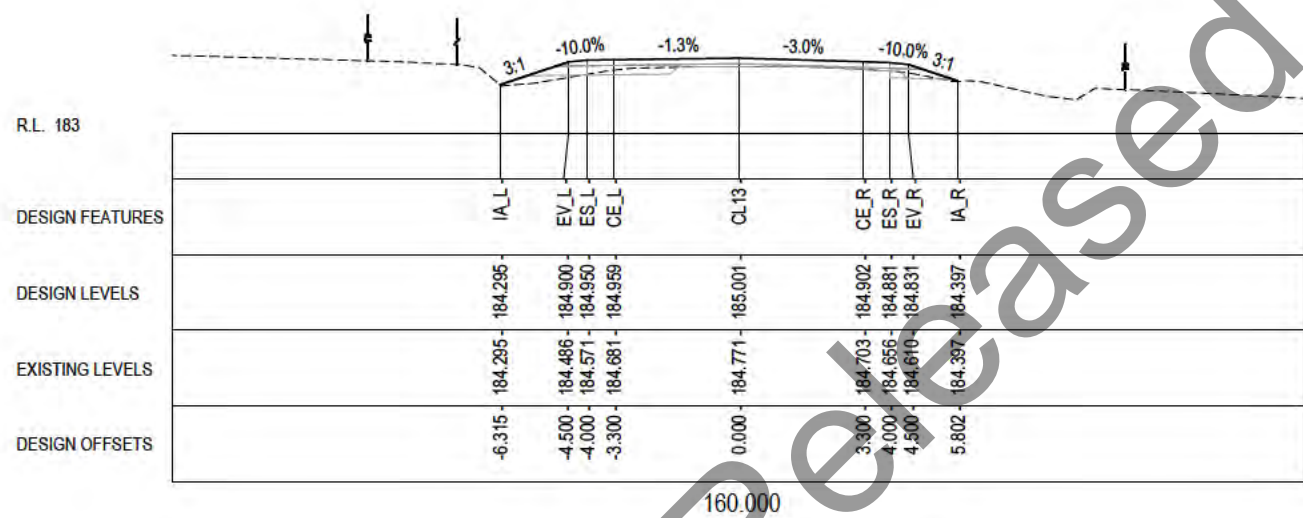
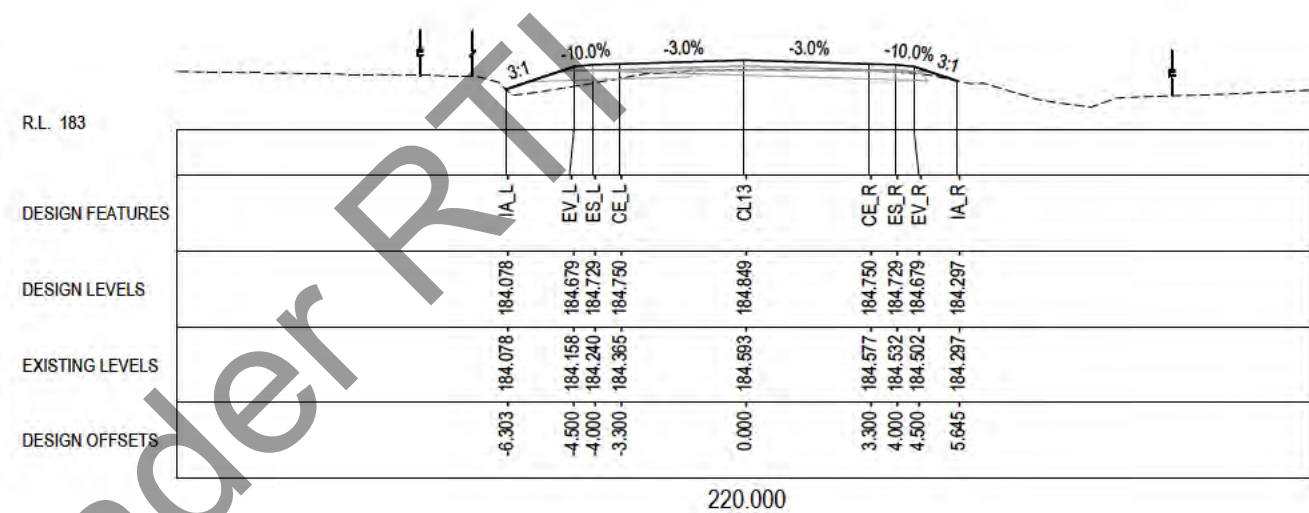
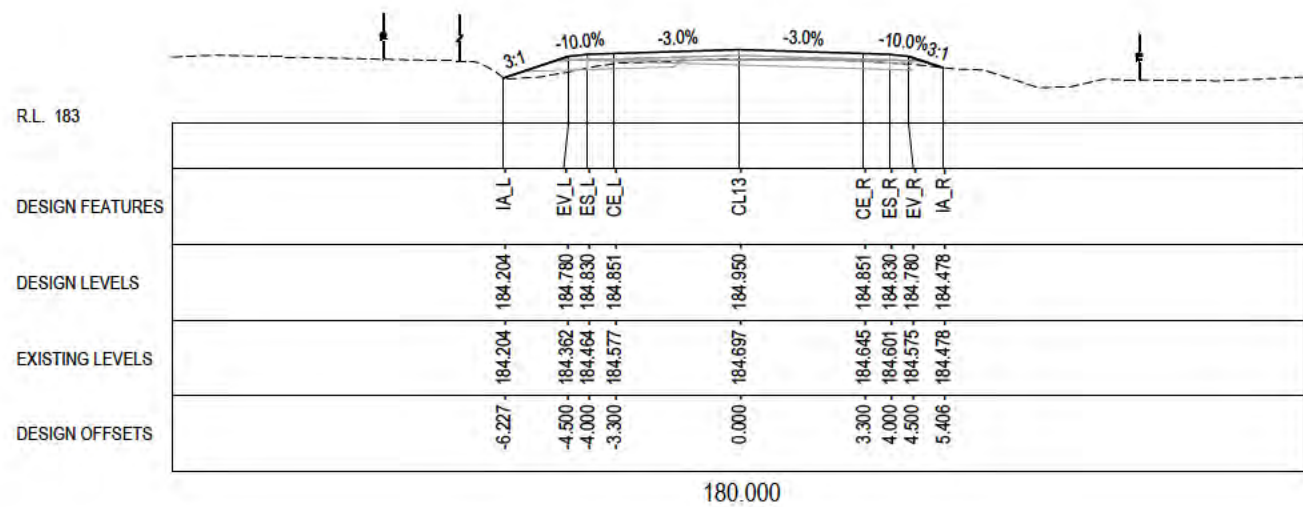


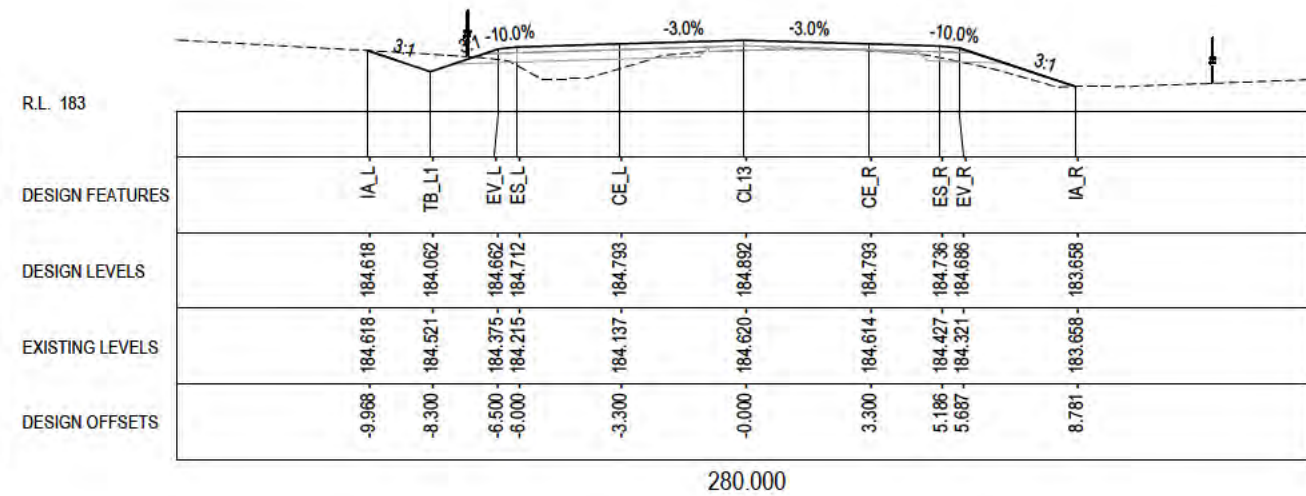
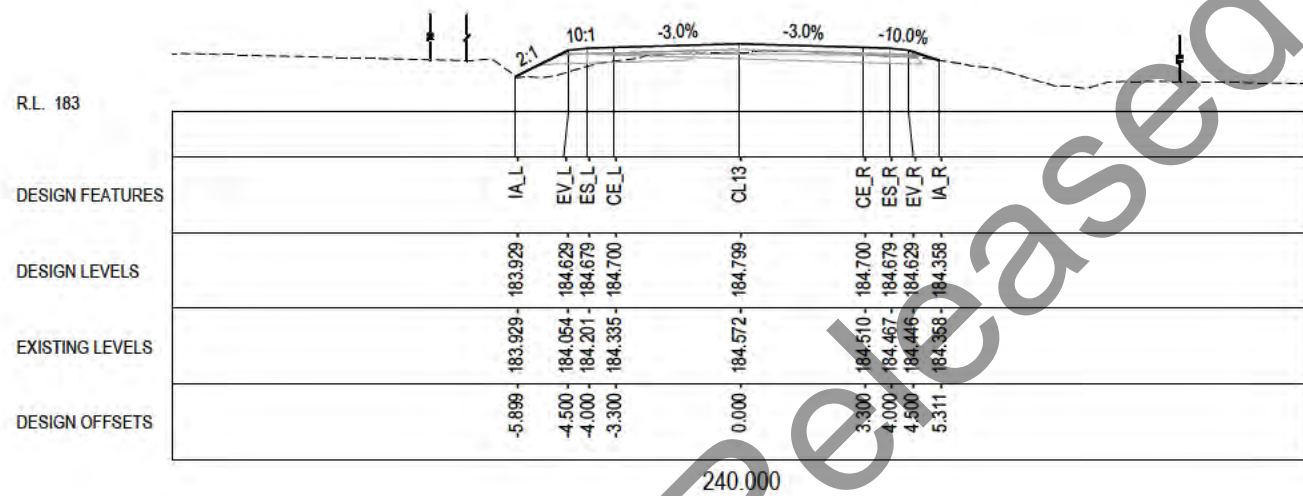
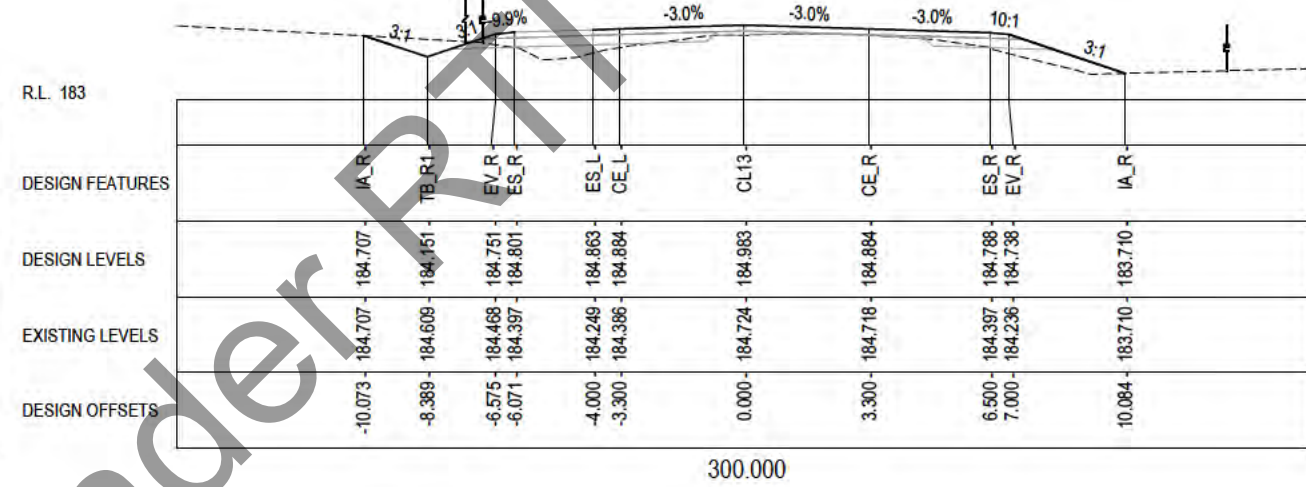
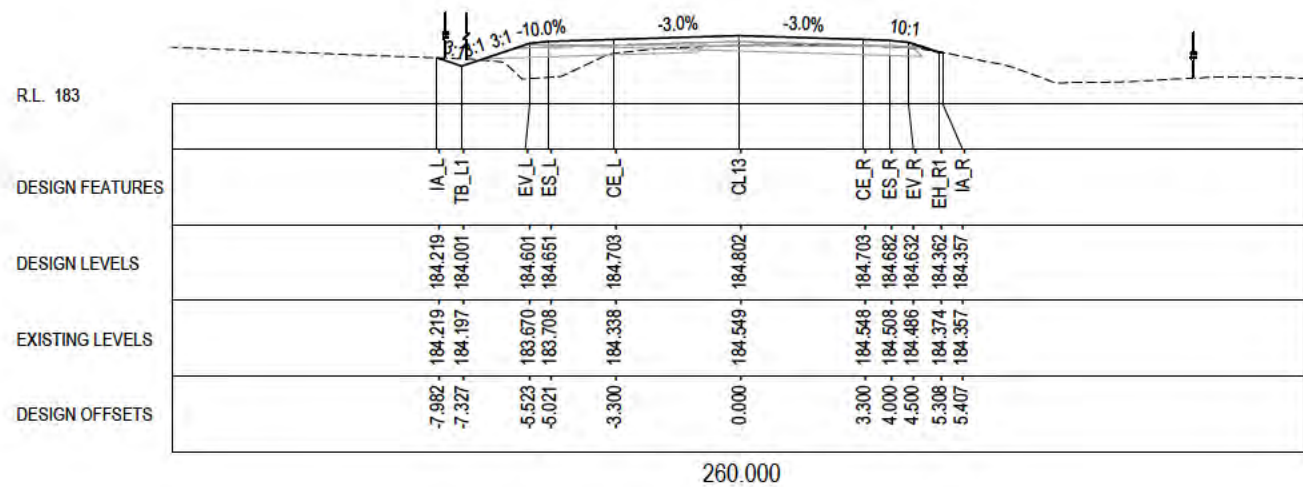


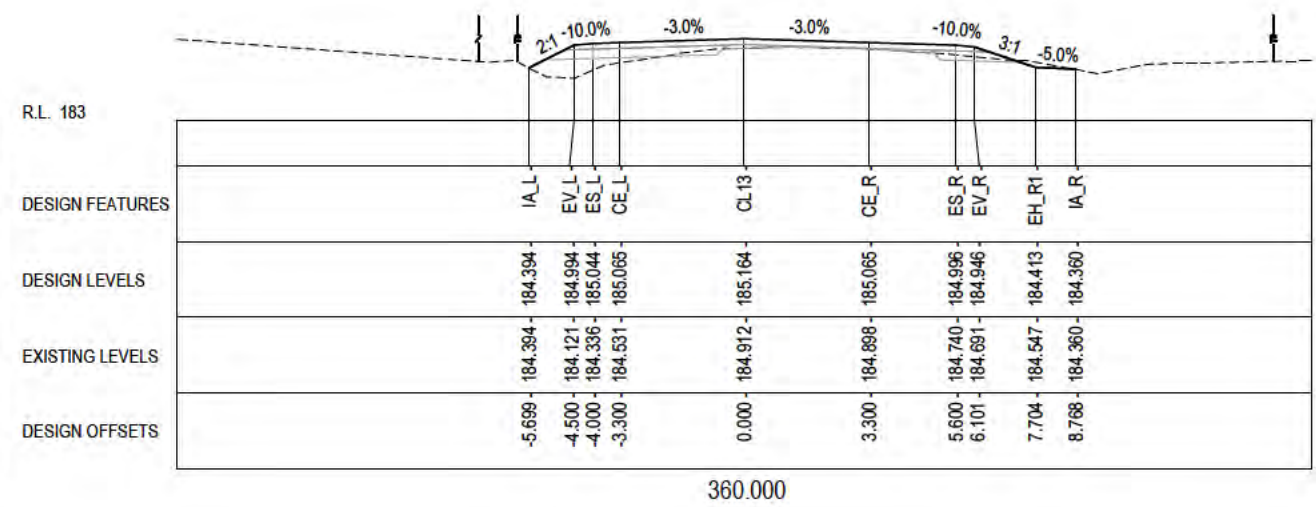
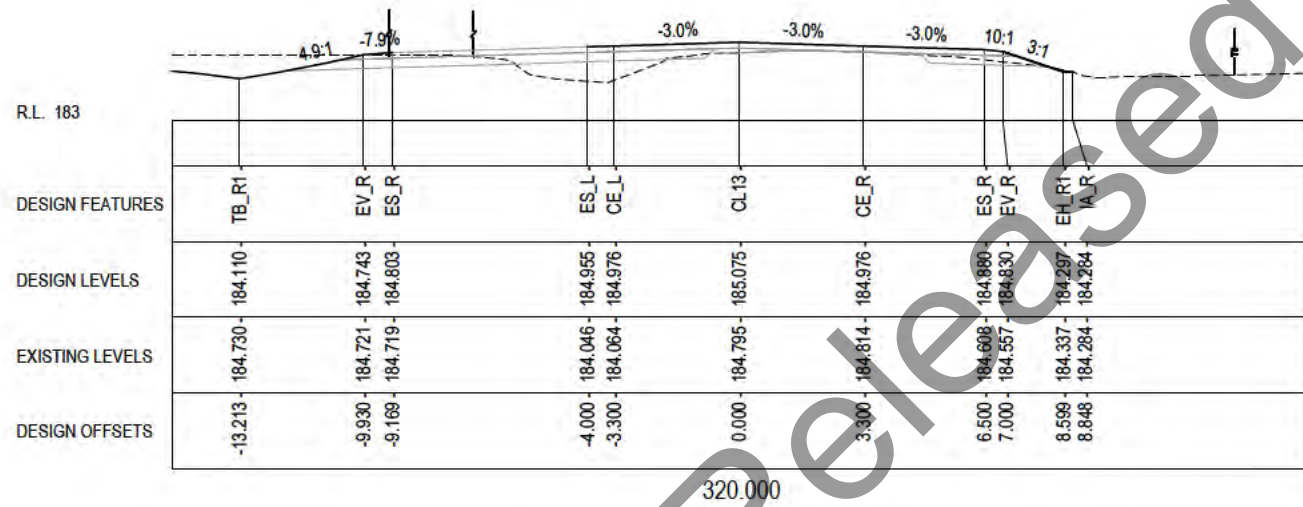
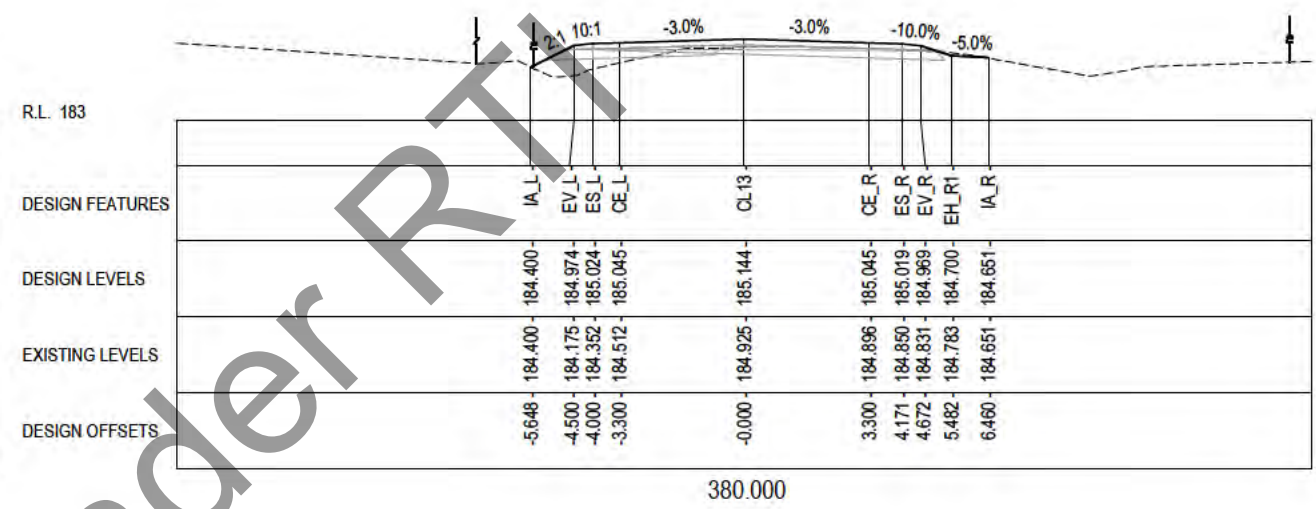
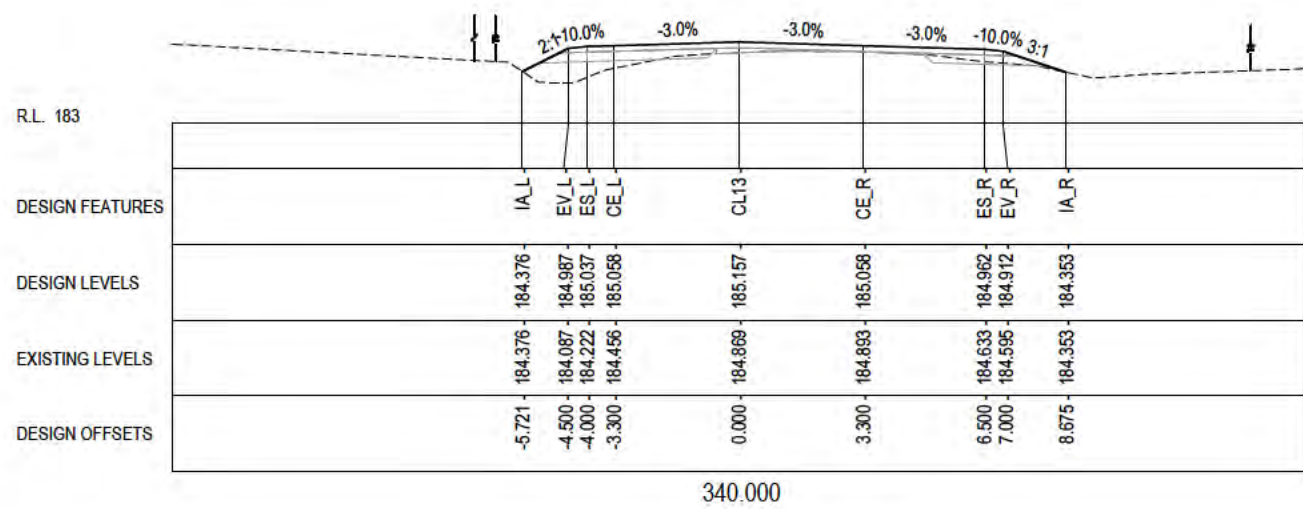


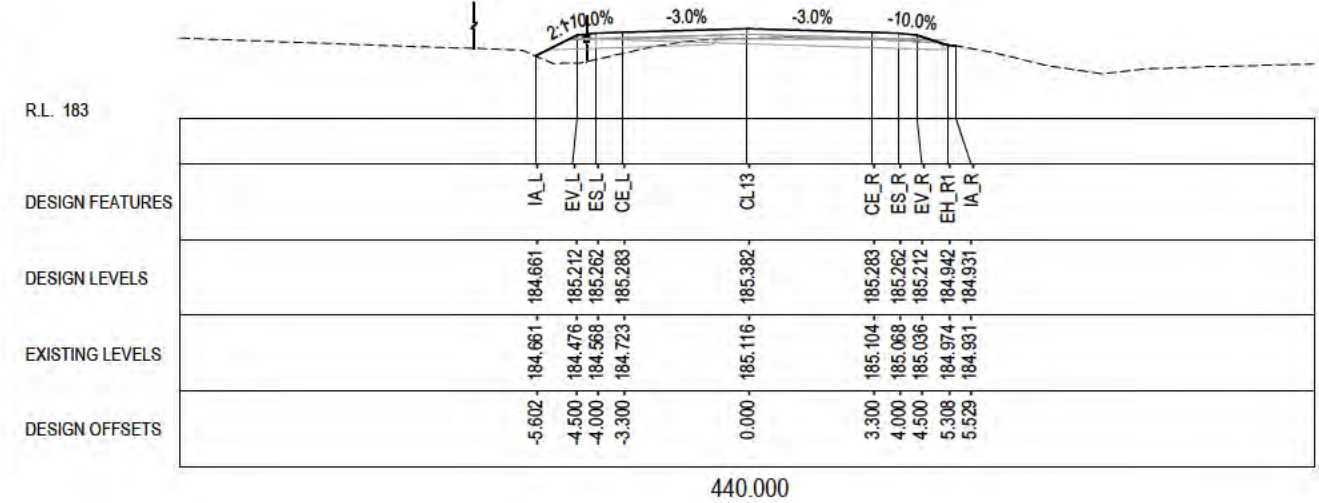
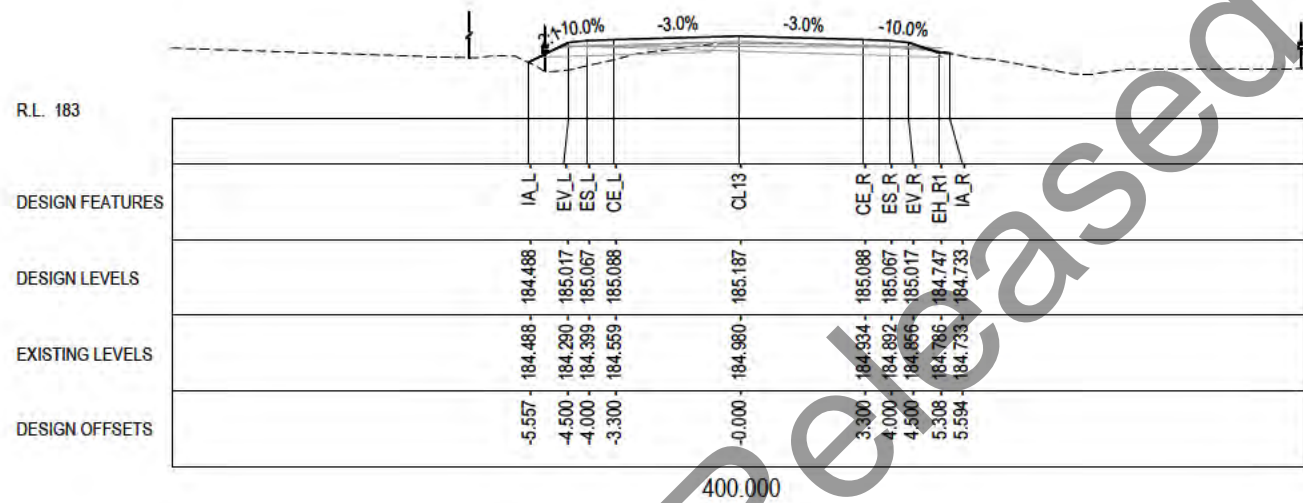
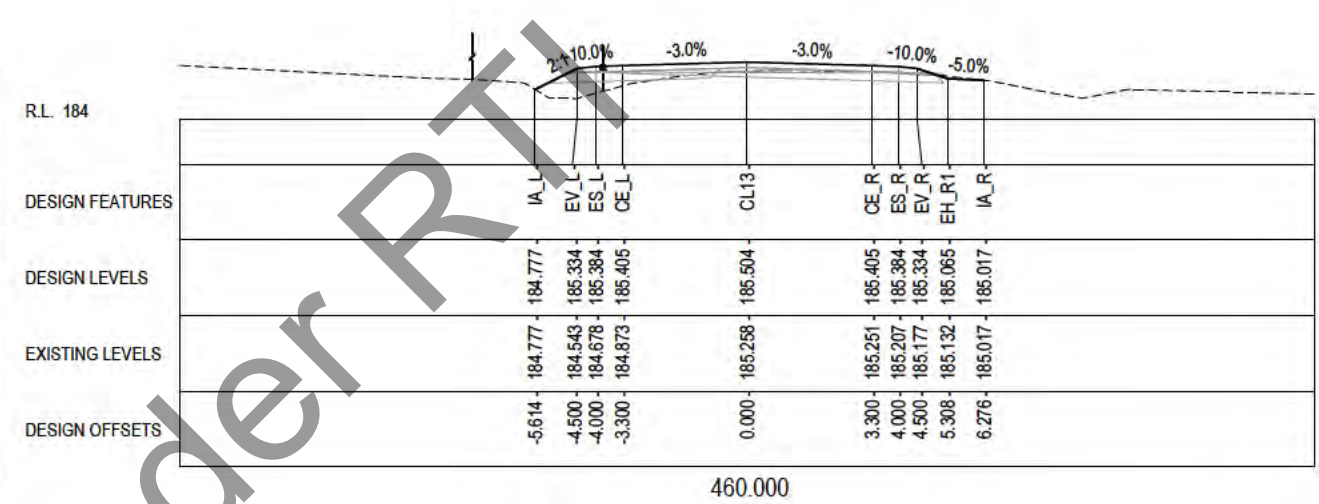
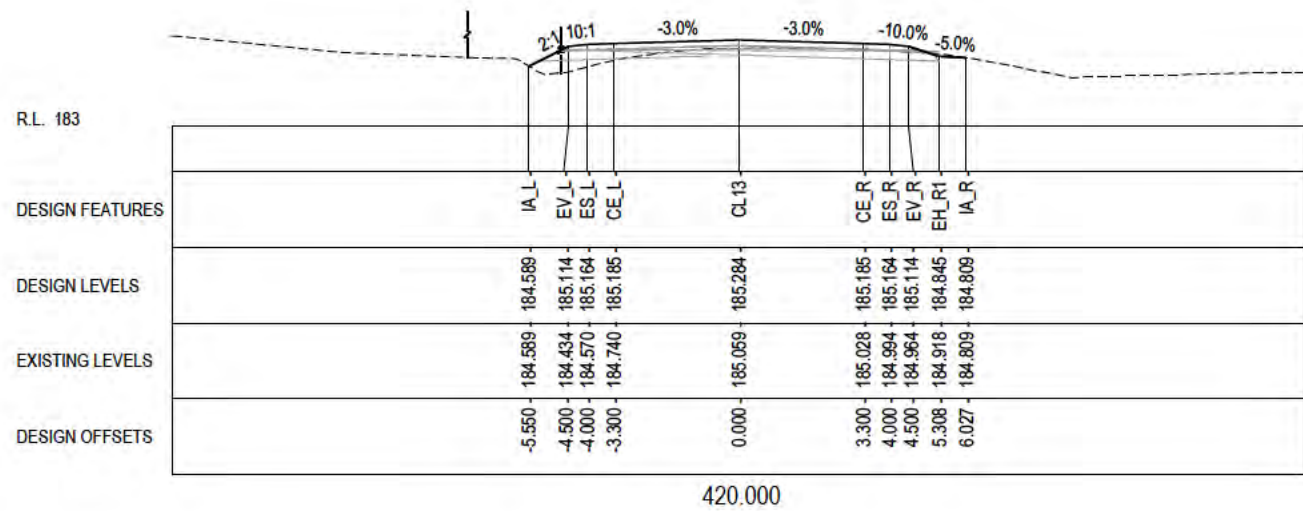


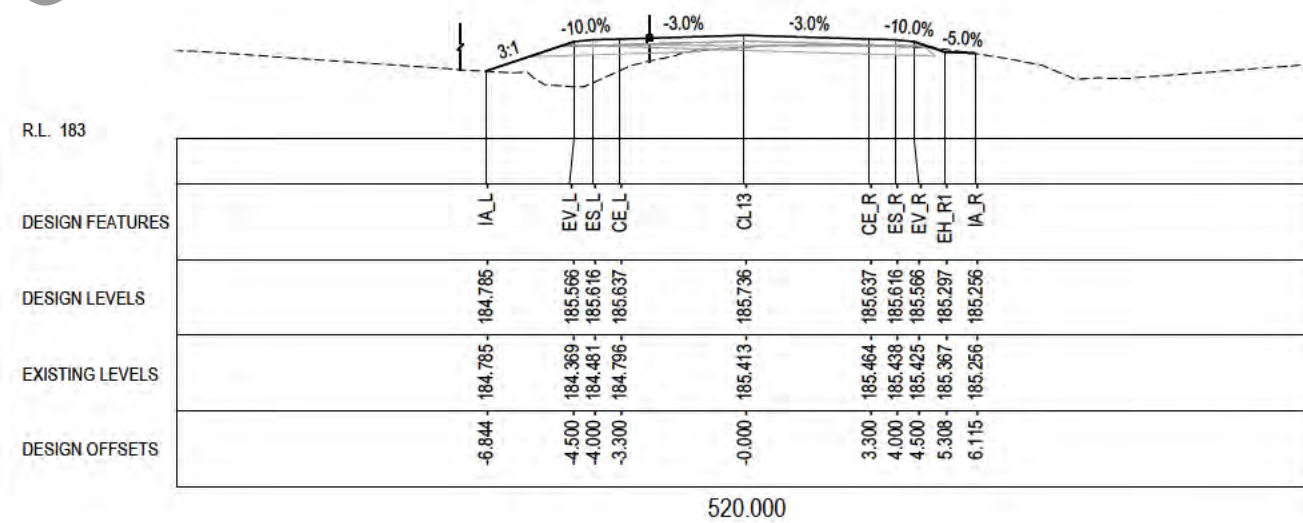
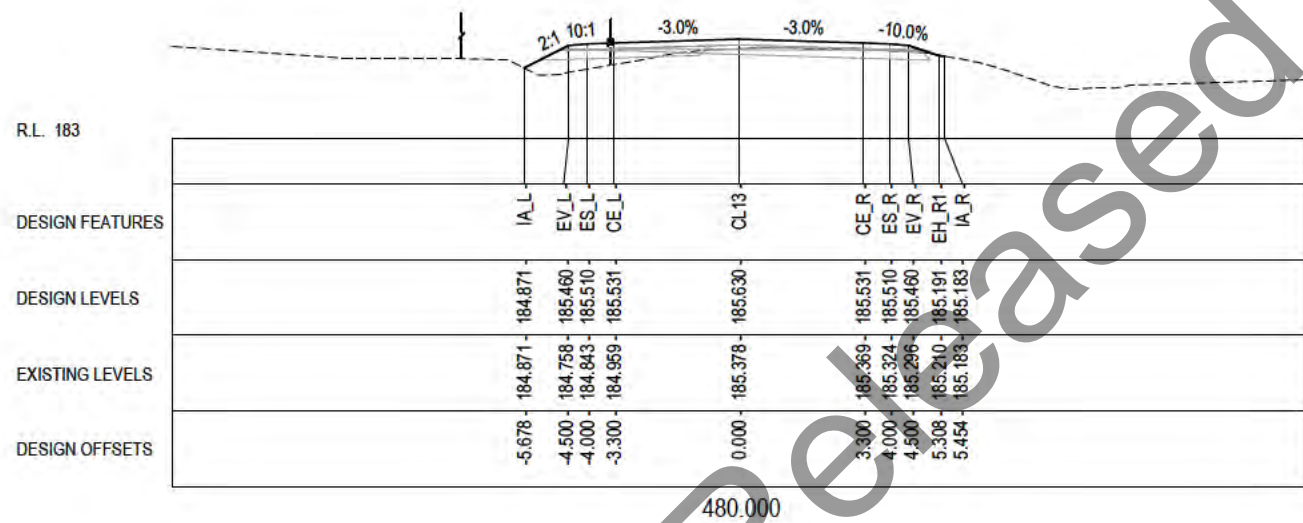
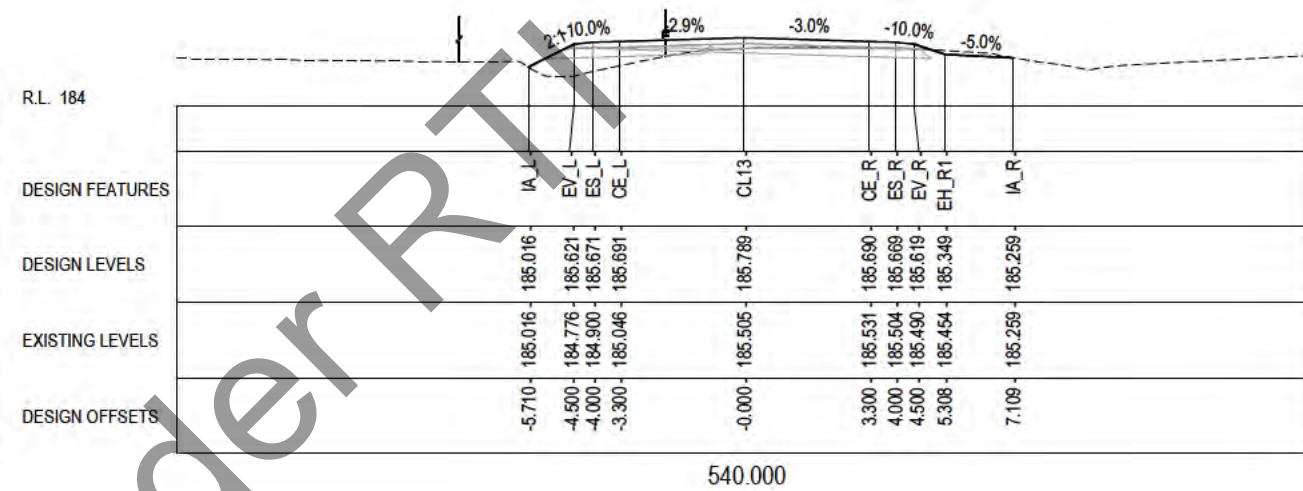
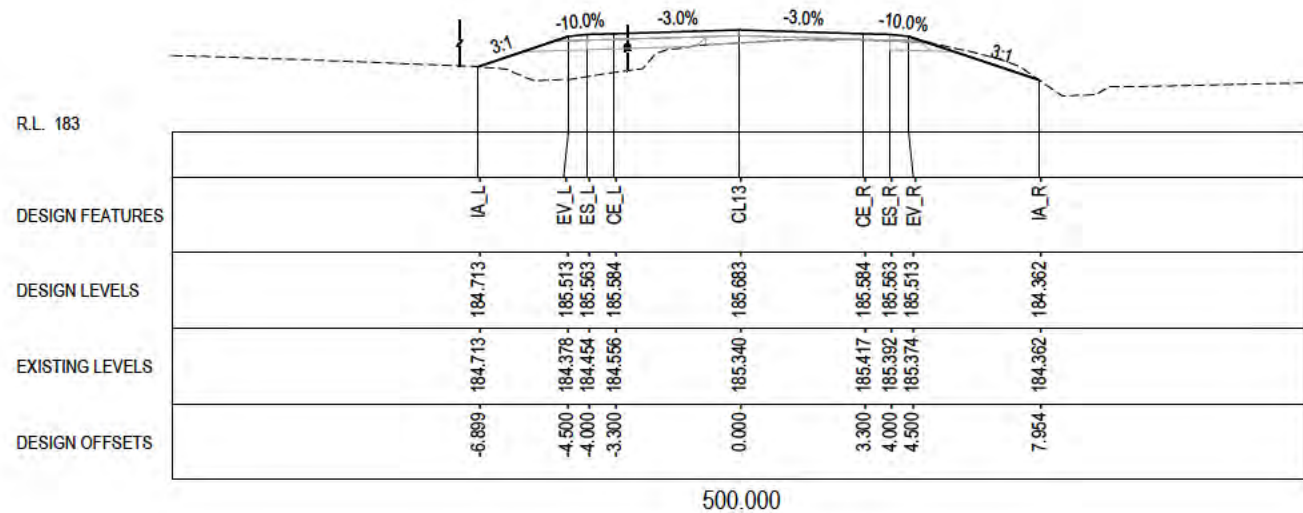


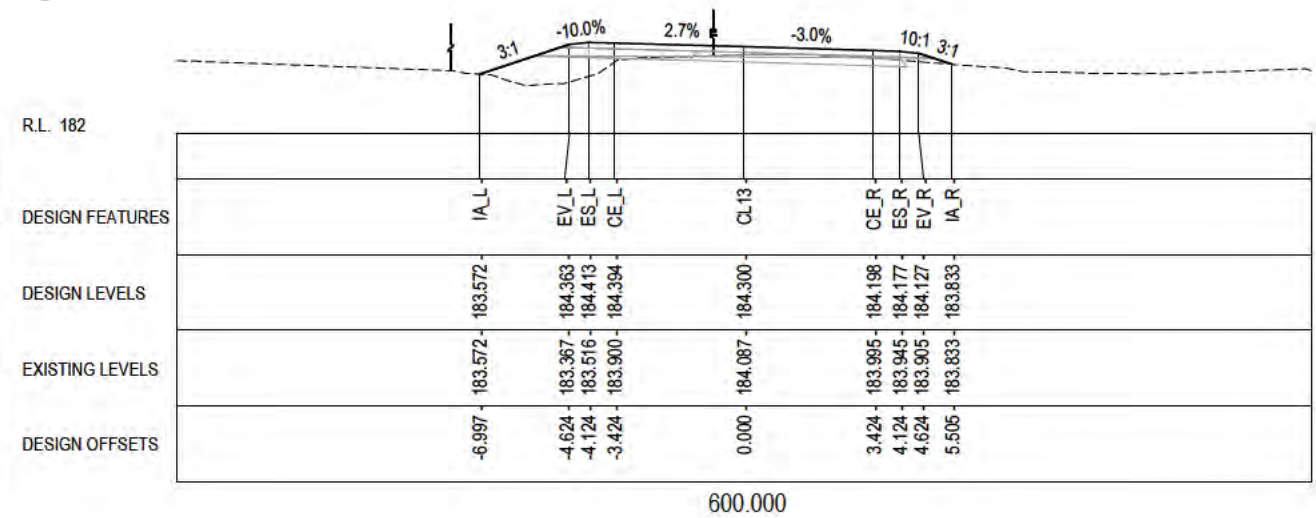
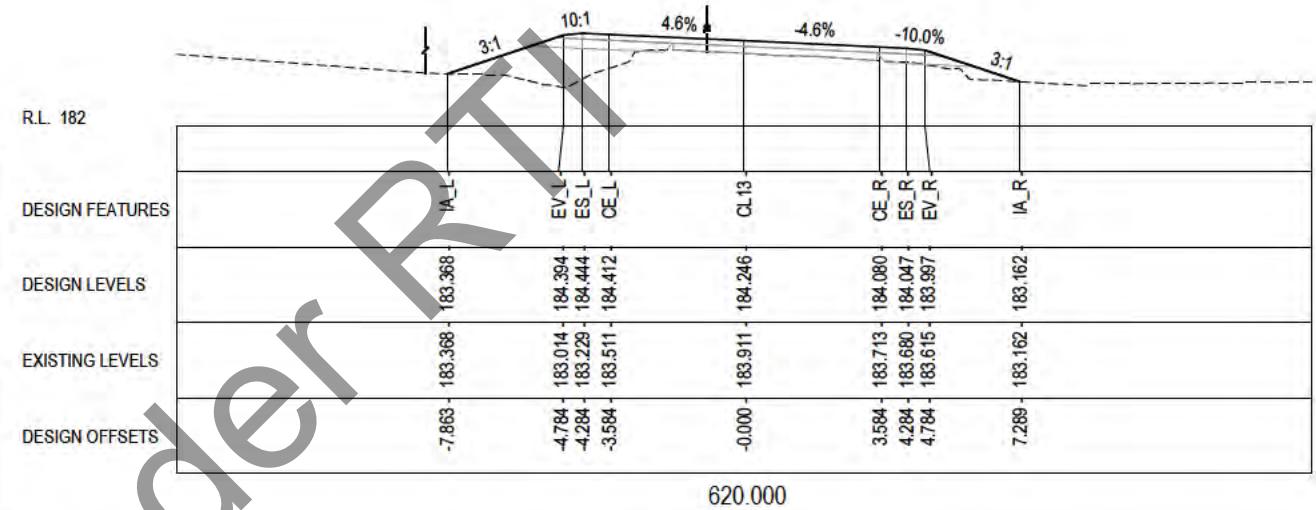
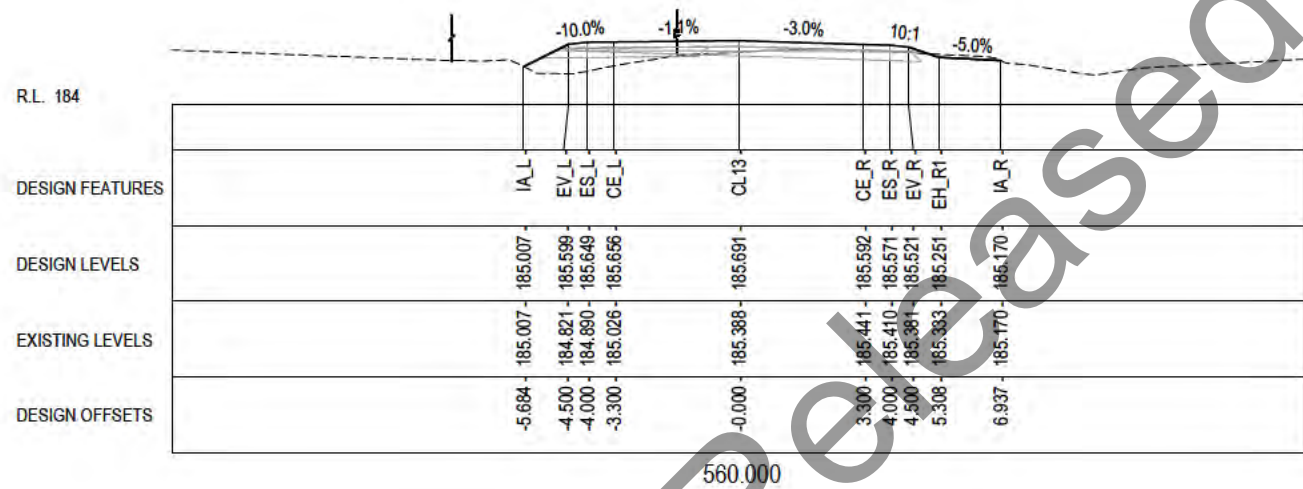
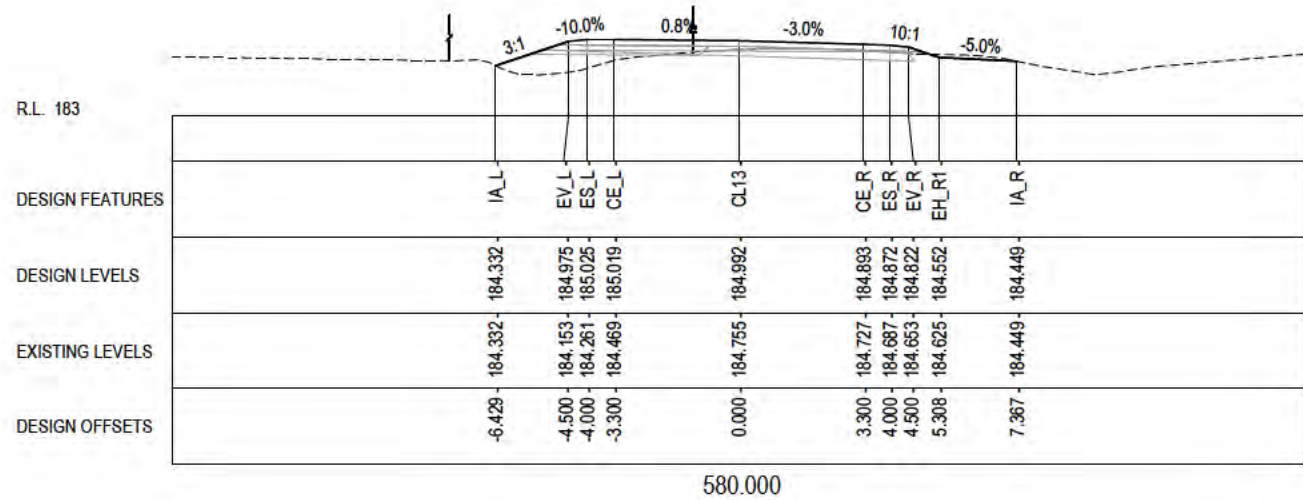


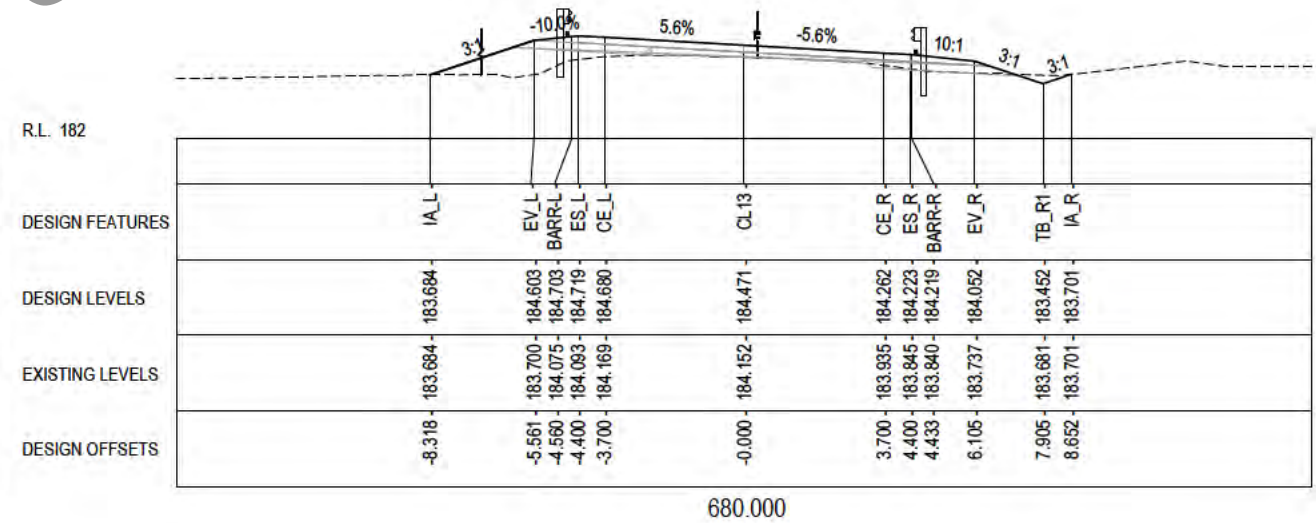
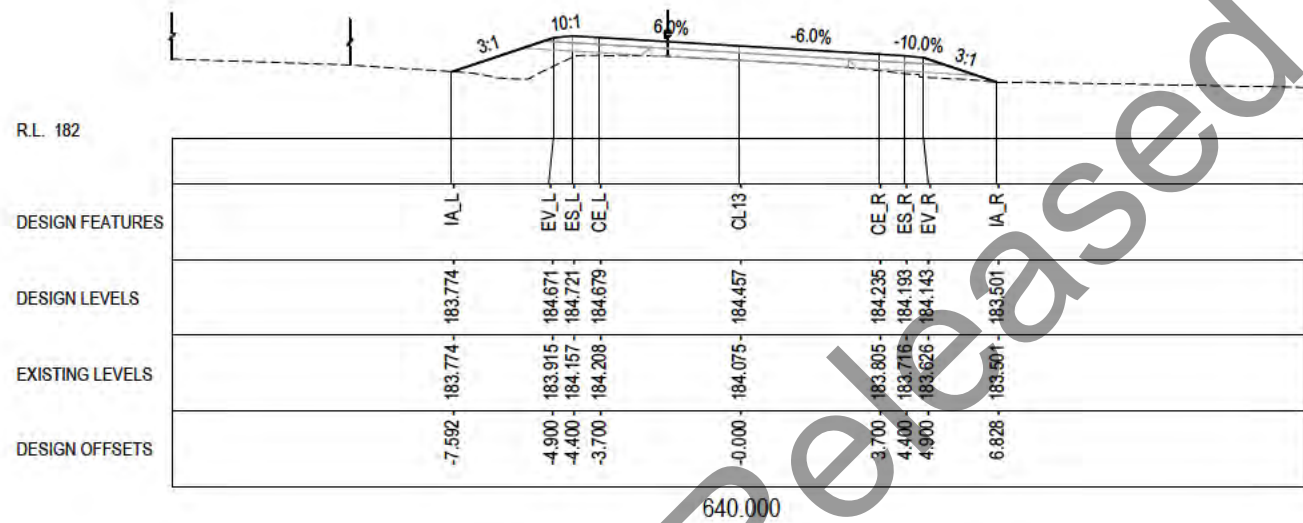
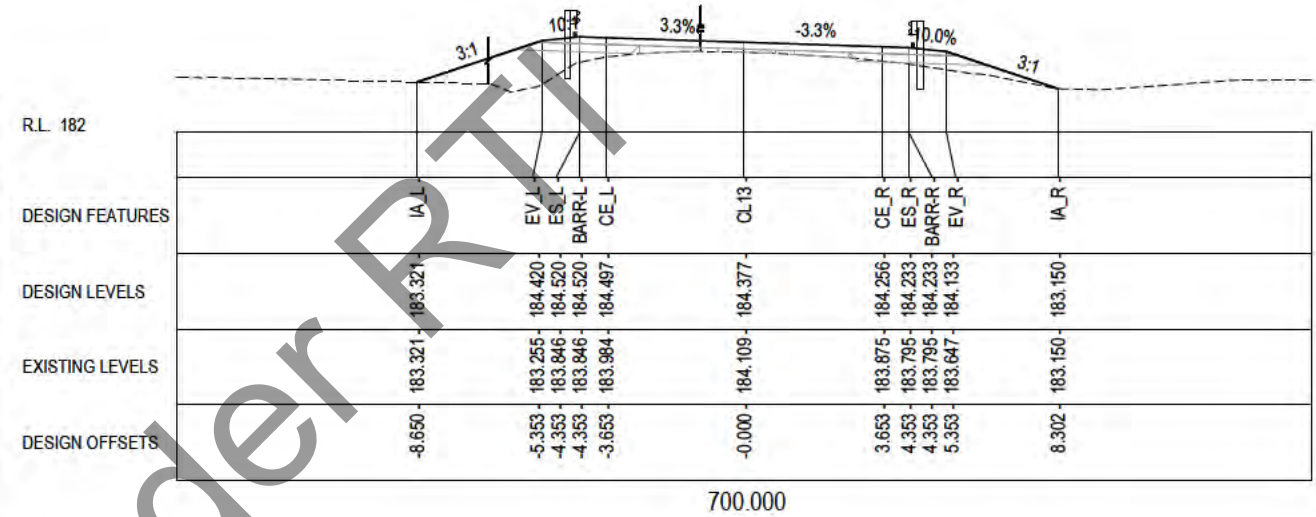
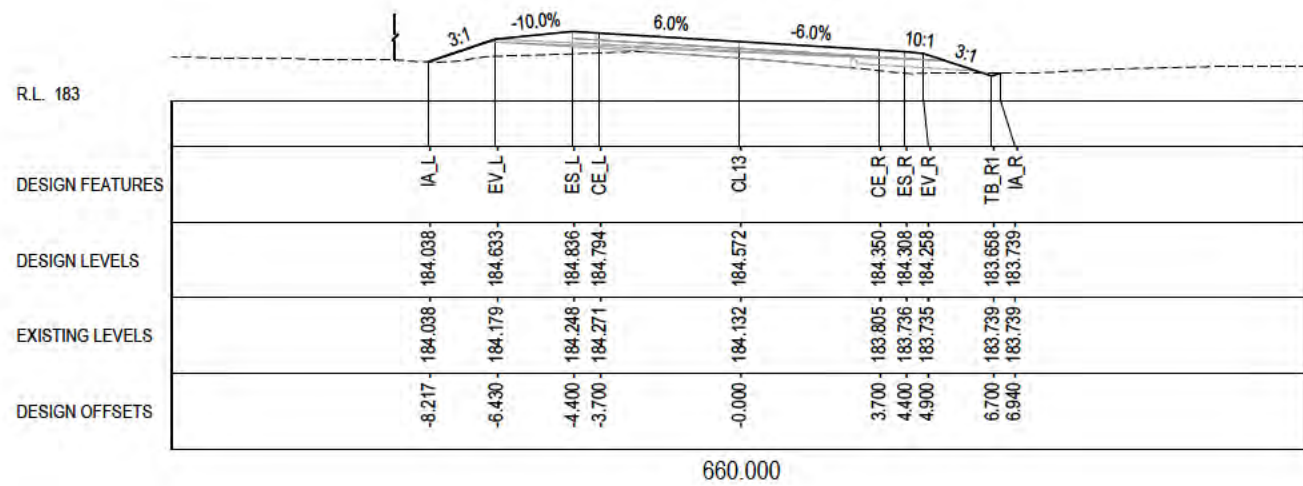












Birrallee Main Road (Package 2)

Preliminary Design Road Safety Audit

**Pitt & Sherry
(Operations) Pty Ltd**
ABN 67 140 184 309

Phone 1300 748 874
info@pittsh.com.au
pittsh.com.au

Located nationally —

Melbourne
Sydney
Brisbane
Hobart
Launceston
Newcastle
Devonport





*Parliament House,
Hobart,*

26 October 2022



Memorandum to:

Hon Jeremy Rockliff MP
Premier of Tasmania
Cabinet Office
15 Murray Street
HOBART TAS 7000

Pursuant to Standing Order No. 78 I forward herewith photocopy of **Petition No 17 of 2022** received by the House this day.

Out of scope

Shane Donnelly
CLERK OF THE HOUSE

To The Honourable the Speaker and Members of the House of Assembly:

The petition of the undersigned residents and users of the Birralee Road believe the proposed upgrade to Birralee Road is manifestly inadequate to justify its continued use as a Category 2 Freight Route, noting:



- Birralee Road was designed and built as a rural access road and the design remains unchanged;
- As a result residents and users of the road suffer: innumerable, and often unreported, accidents; serious safety risks when entering and exiting properties and catching school buses; and dangerous conditions for general non-freight use of the road;
- The State Government has, as yet, not compensated or recompensed residents of the road for the loss in value and amenity as a result of reclassification as a Category 2, Preferred Freight Route;
- Many residents of the road are severely impacted by freight traffic noise in breach of the State Government Noise Guidelines;
- Numerous requests for a reduction in the speed limit in areas with multiple concealed entrances and residences close to the road have been rejected on the basis over preferring convenience for freight over safety of residents.

call upon
Your Petitioners therefore request the House to direct the Minister for Transport to:

- Impose a night-time freight curfew between 9pm and 6am.
- Impose a reduced speed limit where houses are close to the road corridor.

THE HOUSE

Released under RTI

85

From: Out of scope
To: Out of scope
Cc: Out of scope; Ministerials State Roads Division
Subject: RE: Content Manager MINISTER REQUEST - SECRETARIAT USE ONLY : MR22/2433 : INFRA & TRANS - REQUEST FOR RESPONSE TO PETITION - Shane Donnelly - Petition No. 17 of 2022 - Jen Butler - proposed upgrade to Birralelee Road - DUE DATE BY 3/11/22
Date: Wednesday, 2 November 2022 10:38:00 AM

Hello Out of scope – some points below.

- The speed limit for Birralelee Road has been previously reviewed.
- Generally the default rural speed limit is appropriate for the majority of the corridor when assessed against the Tasmanian Speed Zoning Guidelines.
- Speed limits are set with respect to the level of roadside access, not by how close housing is to the road.

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- Through the hamlet of Birralelee itself (Preistleys Lane to Delantys Road) there is a higher access density and some adjustment to the speed limit can be considered, however further assessment of this short section is pending the development of the final designs for road upgrades to determine the most appropriate limit.
- It is noted that the road geometry already results in some moderation of physical travel speeds through the hamlet.

Let me know if you need any further comments.

Thanks Out of scope

From: Out of scope
Sent: Wednesday, 2 November 2022 8:29 AM
To: Out of scope
Cc: Out of scope; Ministerials State Roads Division
Subject: RE: Content Manager MINISTER REQUEST - SECRETARIAT USE ONLY : MR22/2433 : INFRA & TRANS - REQUEST FOR RESPONSE TO PETITION - Shane Donnelly - Petition No. 17 of 2022 - Jen Butler - proposed upgrade to Birralelee Road - DUE DATE BY 3/11/22

Thanks again Out of scope

Out of scope, Can I have your comments on the speed limit?

Regards

Out of scope

Programming and Delivery | Department of State Growth
 Level 2, 4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
 Phone: Out of scope

<http://www.stategrowth.tas.gov.au/>

Courage to make a difference through

TEAMWORK | INTEGRITY | RESPECT | EXCELLENCE

In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

From: Out of scope @stategrowth.tas.gov.au>

Sent: Tuesday, 1 November 2022 5:32 PM

To: Out of scope @stategrowth.tas.gov.au>

Cc: Out of scope @stategrowth.tas.gov.au>; Out of scope

<Out of scope@stategrowth.tas.gov.au>; Out of scope

@stategrowth.tas.gov.au>; Ministerials State Roads Division
<MinisterialsStateRoads.Division@stategrowth.tas.gov.au>

Subject: RE: Content Manager MINISTER REQUEST - SECRETARIAT USE ONLY : MR22/2433 :
INFRA & TRANS - REQUEST FOR RESPONSE TO PETITION - Shane Donnelly - Petition No. 17 of
2022 - Jen Butler - proposed upgrade to Birrallee Road - DUE DATE BY 3/11/22

Hi Out of

I've placed a number of historical documents on the T-drive (for Out of these are available from the Library and some online. As they are scanned pdf it is not efficient to e-mail to them.

some are from before my time, and I've only quickly skimmed through them.

My summary

- DSG (DoT or DIER then) had a relatively non-granular hierarchy with 3 tiers of arterial roads (eg A road Hierarchy for Tasmanian Roads – DoT 1997)
- A five tier hierarchy for all public roads was proposed in the late 90s.
- In the early 2000's the Tasmanian SR Hierarchy was being considered.
- For the state roads west of Tamar, including Birrallee Rd consideration was occurring during 2003 (eg P&S 2003) – that study suggested a pretty flat hierarchy of cat 3 for the Batman-West Tamar-Frankford-Birrallee corridor. Cat 3 also for West Tamar to LCN, with cat 4 for Frankford west of Birrallee and WT north of Batman.
- The 2007 published hierarchy (which mirrors today's classification in that area) landed on cat 2 for the Batman-West Tamar-Frankford-Birrallee corridor, but otherwise as above.
- 2011 the [Review of Gazetted High Productivity Vehicle Route Network](#) and [Gazetted High Productivity Vehicle Network Strategy](#) considered HPV routes around the state
- 2012 the Tasmanian Govt made a submission to Australian Govt [Nation Building 2 Program for Birrallee MR upgrades](#)
- The 2015 'State of our Roads' version did not change the hierarchy in the west Tamar region, but provided updates to account for changes in road management elsewhere in the State as at 2015.
- In 2019 the Australian Govt announce \$24M upgrade package to Birrallee Rd, this subsequently grew to a total commitment in the '[Northern Roads Package](#)' of \$55M (with \$44M AG / \$11M Tas), including works on Batman, Frankford and Birrallee Roads.
- In early 2021 Construction commenced (East Tamar end – complete in 2022) and full package expected to be completed in mid-2024.

le the need for route improvement has long been recognised, and funding allocation sought. The completion of the works will provide safety improvements for all road users.

Hierarchy notes

Based on the published hierarchy notes (my comments added in Blue)

Regional Freight Roads link major production catchments to the Trunk Roads - for example, the Circular Head, Dorset, Huon Valley and Derwent Valley areas. They carry a large number of both heavy freight and passenger vehicles. Together with Regional Access Roads, they provide safe and efficient access to Tasmania's Regions.

Regional Freight Roads facilitate:

- heavy inter-regional and sub-regional freight movement

s.35

- passenger vehicle movement;

- commercial interaction; and
- tourist movement

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They are also the Tasmanian Government's preferred heavy freight vehicle routes where alternative routes exist. [preferred over full Frankford, and through Launceston during congested time points]

In 2011, DIER published [Review of Gazetted High Productivity Vehicle Route Network](#) for Birralelee Road

Birralelee Main Road (DIER)

This route (18.5km) provides a link between the Bass Highway and Bell Bay via Frankford Main Road, the West Tamar Highway, Batman Highway and the East Tamar Highway.

The route is a single carriageway two lane road with lane widths of 3.0-3.1m and shoulder/verges of 0.3-0.5m. Delineation is provided by road markings, guideposts and w-series signs and appears to meet AS 1742.2.

The route section traverses a rural environment, beginning at Westbury at the southern end and passes through the hamlet of Birralelee. Some rural-residential development occurs. There are several slight grades and some moderately tight horizontal curvature. Traffic mix is local commuter and freight vehicles, with a low percentage of tourist traffic.

Assessment: Marginally below the Tasmanian guidelines.

The (Draft) [Gazetted High Productivity Vehicle Network Strategy](#) also in 2011 identified programmed upgrades and route specific mitigations.

For Birralelee Rd installation of Large Truck Warning (W5-120) signs at 5km spacings along the length was identified.

The 2012 funding submission, and subsequent 2019 Northern Roads Package provide significant improvements to road lane and road shoulder widths on the route.

RE: other petition comments

- *Designed & built as rural access road & design unchanged:*

s.35

- *Safety risks*

s.35

- *Compensation for classification*

s.35

s.35

- Noise

s.35

- Curfew

s.35

- Speed

s.35

Cheers,

Out of scope

Network Access team | Infrastructure Tasmania Division | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001

Phone: (03) Out of scope | Mobile: Out of scope

www.stategrowth.tas.gov.au | Out of scope stategrowth.tas.gov.au

Courage to make a difference through

TEAMWORK | INTEGRITY | RESPECT | EXCELLENCE

-----Original Message-----

From: Out of scope [@stategrowth.tas.gov.au](mailto:Out of scope@stategrowth.tas.gov.au)>

Sent: Tuesday, 1 November 2022 8:28 AM

To: Out of scope [@stategrowth.tas.gov.au](mailto:Out of scope@stategrowth.tas.gov.au)>; Out of scope

[@stategrowth.tas.gov.au](mailto:Out of scope@stategrowth.tas.gov.au)>; Out of scope

[@stategrowth.tas.gov.au](mailto:Out of scope@stategrowth.tas.gov.au)>

Cc: Out of scope [@stategrowth.tas.gov.au](mailto:Out of scope@stategrowth.tas.gov.au)>; Ministerials State Roads

Division <MinisterialsStateRoads.Division@stategrowth.tas.gov.au>

Subject: Content Manager MINISTER REQUEST - SECRETARIAT USE ONLY : MR22/2433 : INFRA &
TRANS - REQUEST FOR RESPONSE TO PETITION - Shane Donnelly - Petition No. 17 of 2022 - Jen
Butler - proposed upgrade to Birralelee Road - DUE DATE BY 3/11/22

Hi all,

This has been assigned to me I can provide a response in relation to the project. Would be
helpful if we could have some input into the history of Birralelee Road.

Thanks

Out of scope

Programming and Delivery | Department of State Growth Level 2, 4 Salamanca Place, Hobart TAS
7000 | GPO Box 536, Hobart TAS 7001

Phone: Out of scope

<https://aus01.safelinks.protection.outlook.com/?>

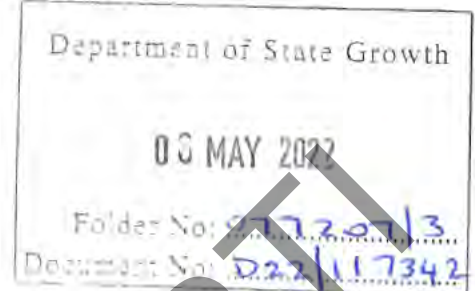
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Out of scope

3rd May 2022

Out of scope

Department of State Growth
Traffic Engineering
GPO Box 536
Hobart
Tas 7001



Dear Out of scope

Subject.- Intersection of: Frankford Highway(B71) and Birralelee Road(B72)
Birralelee Road (B72) and Ginns Road, Birralelee

I am writing to you at the suggestion of Out of scope of the West Tamar Council regarding the above matter.

In doing so, I enclose a copy of my letter of 23rd October 2021 addressed to the General Manager of the West Tamar Council which was passed to Out of scope. He subsequently advised me that he had forwarded a copy of the letter to you, as the matter was one for the Department of State Growth. In his covering email to you of Tuesday 2nd November 2021 he did agree that my suggestion of installing double white lines, as proposed in my letter did have merit.

What has particularly prompted me to write to you now is that unfortunately, the set of circumstances envisaged in my 23rd October letter, have occurred.

On Wednesday 13th April a vehicle turning right into Ginns Road from Birralelee Road was struck by another vehicle attempting to pass, both sustaining extensive damage. I am not aware of injuries sustained but both the Police and an ambulance attended the accident.

I feel that the driver behaviour which led to this accident could most likely have been avoided had the suggested road markings been in place.

I am given to understand that there are proposals to upgrade the road system linking the Frankford Highway to the Bass Highway at Westbury, via Birralelee Road. These roads carry an increasing volume of traffic including some very heavy vehicles. Pending this upgrade, and in the meantime, the Ginns Road/Birralelee Road problem will continue, creating an ongoing danger to users.

I do believe that my suggestion, at minimum cost, would help to alleviate the problem, and make the existing roadway safer until a more permanent solution is in place.

Yours Faithfully

Out of scope

Out of scope

23 October 2021

Mr R Voss
General Manager
West Tamar Council
Eden Street
Riverside, Tas 7250

Dear Sir

cc : The Mayor.

Subject.- Intersection of: (a) Frankford Highway (B71) and Biralee Road (B72)
(b) Birralee Road (B72) and Ginns Road, Birralee

I wish to draw attention to a set of circumstances which daily give rise to a situation that could result in a serious vehicle accident, and which could involve, in particular, families with children.

It has been noticed that Birralee Road, from the Frankford Highway T-intersection appears to be attracting an increasing volume of traffic, including larger vehicles, travelling towards Westbury where they can connect with the Bass Highway.

On turning left from the Frankford Highway on to Biralee Road, drivers have ahead of them a long straight stretch road which, without any oncoming traffic, is an ideal (and tempting!!) opportunity for overtaking.

Unfortunately residents of Ginns road and also Minchins Road need to turn right within the distance of approximately 150 metres from the intersection

It is at this point that a potentially dangerous incident often develops whereby a driver slowing down to make a right hand turn into Ginns Road, is followed closely by another vehicle whose driver can see an opportunity to pass on the long straight ahead. As all this happens within a matter of seconds.

It is not uncommon for a driver, making a right hand signal for Ginns Road, even if this is done immediately after making the left hand turn from the Frankford Highway, having a following vehicle commencing to pass within the 150 metres before the Ginns Road turnoff. I have experienced this on a number of occasions, as have members of my family.

I am aware that there is a T-junction sign visible almost immediately after making the left hand turn from Frankford Highway into Birralee Road, but this is not adequate to warn a following driver of the likelihood that the vehicle in front would be turning right.

It should also be noted that, there being deep culverts on either side of Birralee Road at this point, there is no opportunity for a driver to pull to the side of the road and wait before safely making a right hand turn.

Although I am not a resident of either Ginns Road or Minchins road, my daughter and her family, which includes 2 primary school aged children, are from my own experience as a frequent visitor, and from occurrences related to me by my daughter regarding her own experiences and that of other local residents, the situation, with it's inherent danger, is not uncommon.

It is therefore proposed that, in an endeavour to prevent drivers from attempting to pass another vehicle until after they have passed the Ginns Road intersection, the roadway be marked with double white lines from the commencement of Birralee Road at the Frankford Highway junction and for an appropriate distance past Ginns Road. Broken double white lines would signal that a right hand turn into Ginns Road is permitted. It is noticed that this type of road marking to allow the right hand turn is quite common.

My daughter, [Out of scope] recently had a telephone conversation with [Out of scope] your
[Out of scope] on the subject. It would be appreciated if Council would follow the matter up and
take appropriate action to remedy the situation

Yours faithfully

[Out of scope]

Released under RTI

Untitled Map

Write a description for your map.

Legend



Google Earth

Department of State Growth

INFRASTRUCTURE TASMANIA DIVISION

GPO Box 536, Hobart TAS 7001 Australia

Ph (03) [Out of scope]

Email [Out of scope]@stategrowth.tas.gov.au Web www.stategrowth.tas.gov.au

Our Ref: D22/117342



[Out of scope]

RE: Birralelee Road and Ginns Road intersection – Road markings

Dear [Out of scope]

Thank you for your letter of 3 May 2022 regarding your concerns about the current road markings in the vicinity of the Birralelee Road and Ginns Road intersection. I apologise for the delay in responding.

The centre line road markings on Birralelee Road in the vicinity of, and passing, Ginns Road were reviewed previously and found to be provided in accordance with national traffic standards.

It is noted that centre line markings are determined by the geometry of the through road and available forward sight distances and are not influenced by the presence of minor side road intersections. Situations like this, where centre line markings passing an intersection permit overtaking if safe to do so, are not uncommon across the road network. While not an exhaustive list, some other sites where the arrangement is similar to Birralelee Road and Ginns Road include:

- Birralelee Road & Delantys Road, Birralelee
- Birralelee Road & Priestleys Lane, Birralelee
- Tasman Highway & McManus Drive, Falmouth
- Tasman Hwy & Carisbrook Lane, Ringarooma
- Tasman Highway & Tonganah Road, Tonganah
- Tasman Highway & Woodsdale Road, Runnymede
- Bridport Road & Bellingham Road, Pipers River
- West Tamar Highway & Spring Hill Road, Sidmouth
- Lilydale Road & Pipers River Road, Underwood
- Cressy Road & Wilmores Lane, Longford
- Meander Valley Road & Westwood Road, Hagley
- Ridgley Highway & Talunnah Road, Hampshire

Under the road rules, the driver of a following vehicle is not permitted to overtake to the right of another vehicle that is indicating prior to, or making, a right hand turn. Additionally, for a driver turning left out of a side road, the onus is on the entering driver to give way to all traffic on the through road including any vehicles that may be overtaking.

While I empathise with your concerns, particularly given the unfortunate crash that occurred on 13 April 2022, human behaviour is often the main contributing factor in road crashes as you have alluded to, regardless of the administrative controls in place. Indeed, investigations into the recent crash indicated that improper overtaking was the primary factor and, it was noted that the errant driver was issued with a traffic infringement notice.

It is possible that your suggestion to have double continuous lines may have reduced the likelihood of the driver attempting to overtake. However there is a broader issue if we place markings that prohibit overtaking at locations where drivers have unrestricted view of the road ahead. That it can reduce their credibility overall in context with sections of road where it is important that overtaking is not permitted.

You are correct in that the Department is currently developing a design for shoulder sealing works on Frankford and Birralea Roads. These works will involve widening the road, improving delineation and ensuring all traffic control facilities are provided to contemporary standards. Notably, the work will include additional widening at intersections so that following traffic have room to safely pass to the left of a vehicle that is slowing, or stopped, to turn right into a side road. A timeframe for construction is not yet confirmed but I understand funding has been allocated.

I hope this helps in further clarifying the current situation. Please feel free to contact me on the above details if you would like to discuss in further detail.

Yours sincerely

Out of scope

11 July 2022

cc Out of scope West Tamar Council (by email)

From: Out of scope
Sent: Friday, 7 October 2022 9:14 AM
To: Out of scope
Cc:
Subject: RE: Some questions in regard to heavy vehicle use of Birralelee Road
Attachments: Birralelee-Frankford-Launceston Traffic stats 2021.docx

Dear Out of scope

Thankyou for your enquiry directed to Out of scope

Out of scope has asked me to respond to you, as he is currently on leave, and also because in relation to heavy vehicle access questions I am well placed to respond.

RE: "apprehension is a common occurrence, generally other road vehicles and heavy vehicles interact safely"

- With respect to the first part of this statement – whilst I think it is perhaps natural or common for a light vehicle driver to feel more apprehensive around a larger heavy vehicle than a light vehicle, I can't point you to a reference which has surveyed this.
- With respect to the second part of the comment relating to light and heavy vehicles generally interacting safely, the 2016 CASR report *Analysing and modelling of crashes in Tasmania* provides some analysis regarding fatal and serious crashes for a range of target areas comparing three different time periods (Table 2.3). In the 2011-14 period crashes involving trucks made up 6.6% of all fatal and serious casualties.
- For Birralelee Road in particular there have been 42 police reported crashes in the last 10 years. Of these, five crashes included a heavy vehicle, and all of these, except one, were single vehicle run-off road type incidents not involving other road users. The overall crash rate is not elevated in comparison to other roads with similar traffic function and volume.

Two other references which provide contemporary heavy vehicle road trauma statistics include:

- BITRE's *Road trauma involving heavy vehicles 2020 statistical summary* and *(archived summaries)*
- NTI's National Truck Accident Research Centre (NTARC) *Major Crash Investigation Reports 2022 Report* and *previous reports*

Additionally the Department of State Growth reports on Tasmanian crash statistics are available [here](#)

RE: "redirecting freight traffic [from Birralelee Rd] to other routes may result in undesirable outcomes elsewhere"

- For journeys between the Bass Highway at Westbury (& to/from locations further west) and the East Tamar at Hillwood (& to/from locations further north and east) there are essentially two route options
 - o via East Tamar Hwy – Launceston – Bass Highway
 - o via Batman – West Tamar – Frankford – Birralelee
- during uncongested travel times the two route options are not remarkably different in travel time, with the former a higher quality route which is approximately 4 km longer
- during peak hours Launceston is more congested and so the latter shorter route is advantageous in terms of travel time and traffic.
- Many heavy vehicle operators would not seek to travel through Launceston less desirable at these busier times of day. Reduction of traffic volumes through Launceston at these times also benefits other road users in the city.

RE: Volumes of Heavy Vehicles on Birralelee Rd

- I've attached some traffic count information for Birralelee Road, Frankford Road (west of Birralelee Road) and Launceston (northern end of Midland Highway). There were an average of 204 heavy vehicles travelling on Birralelee Road per day in the 2021 survey (seasonally adjusted).

- Comparing the numbers of vehicles from the 2016 and 2021 counts on Birralelee Road the increase was 85 total vehicles, including 55 heavy vehicles. By simplistically assuming similar increases for each of the next 5 year periods would see heavy vehicle daily count of 314.

RE: Heavy vehicle access routes

- Restricted access heavy vehicle routes in Tasmania are available [here](#).
- B-double configurations up to 21m length (eg a 7-axle B-double) have general access to all roads in Tasmania. Likewise for truck and dog trailer combinations up to 21m in length. General access mass for these combinations is up to approximately 50 tonnes.
- However B-doubles longer than 21m length (and greater than 50 tonnes) have more restricted networks (eg a 26m long 9-axle B-double). Likewise for truck and dog trailer combinations or other combination types greater than 21m length.
- The Birralelee-Frankford-West Tamar-Batman corridor is part of networks for B-doubles up to 26m length and 68.5T tonnes gross, and similar sized truck and dog trailer combinations.
- The section of Frankford Main Road west of Birralelee Road is not provided as a gazetted route for these combinations longer than 21m. This section generally has narrower lane widths and shoulder widths, and more challenging vertical and horizontal alignments. Therefore it is considered less desirable for longer combinations as a through route between the East Tamar Highway and Devonport.
- Operation of heavy vehicles with axle loading at Higher Mass Limits (HML) is available for operators who are mass management accredited, and with vehicles which have load sharing suspension systems to mitigate pavement wear. There is at least one bridge structure on the section of Frankford Road near Harford which is not available for HML loading. The Birralelee Road and corridor to East Tamar Highway does not have these limitations though.

I trust this information is of assistance.

Regards,

Out of scope

Network Access team | Infrastructure Tasmania Division | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
Phone: Out of scope
www.stategrowth.tas.gov.au | Out of scope @stategrowth.tas.gov.au

Courage to make a difference through
TEAMWORK | INTEGRITY | RESPECT | EXCELLENCE

From Out of scope

Sent: Wednesday, 31 August 2022 1:57 AM

To: Out of scope @stategrowth.tas.gov.au

Subject: Some questions in regard to Birralelee Rd

Out of scope

State Roads Division, State Growth

Dear Out of scope

In some earlier correspondence from your office, there were two points that I would like to ask for some more information on.

As I am in discussion with some of the residents who live along Birralelee Rd, your additional information would be really helpful.

One was about apprehension between general road users and heavy vehicles. The reply from State Growth was that while the apprehension is a common occurrence, generally other road vehicles and heavy vehicles interact safely. Would you have any references or data that you have to support that?

The other was that redirecting freight traffic [from Birralelee Rd] to other routes may result in undesirable outcomes elsewhere. Is the elsewhere in this case, heavy vehicle traffic going through Launceston? Can you provide some more information and/or data on the types of problems, and the level of such problems? Are there any specific locations where problems are known?

And just related to the second question, how many additional freight vehicles would need to go through Launceston if redirected away from Birralelee Rd- currently, and expected number in ten years time?

And finally, as an additional question I haven't asked previously, is it correct that b-doubles and other higher mass/length trucks are not permitted to run to and from Exeter to the Devonport area along Frankford Main Rd? Can you provide some detail on why that is, if correct?

Thanks in anticipation

Sincerely

Out of scope

Sent from Mail for Windows

Released under RTI

A1701110

Description: Birralee Main Road 3.15m S of Frankford MR

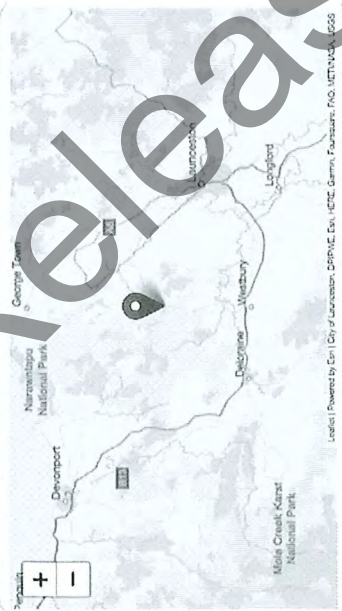
City: Birralee

Route number: A1701

Site Data



100
km/h



Locals! Powered by City of Lancaster, ©2016, Esri, HERE, Garmin, Bing, Microsoft, NOAA, USGS

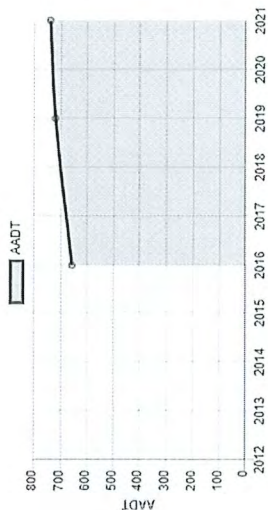
Traffic Statistics by Direction

Direction	Weekday average total traffic	7-day average traffic	Weekly traffic total
North	325	319	2,230
South	331	326	2,285
Total	656	645	4,515

Annual Statistics

Data Item	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
AADT	-	-	-	-	654	-	-	718	-	739
% HV	-	-	-	-	22.8%	-	-	30.1%	-	27.6%

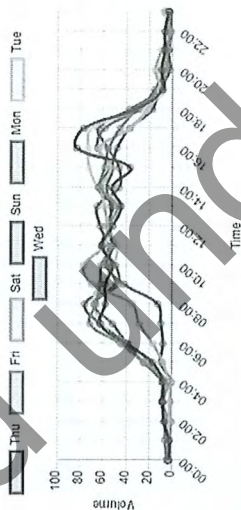
AADT Trend



Monthly average daily total



Daily Volume



Vehicle Classification

1-SV Short		68.26%
2-SVT Short + trailer		4.14%
3-TB2 Two axle rigid or bus		8.26%
4-TB3 Three axle rigid or bus		1.53%
5-T4 Four (or more) axle rigid		1.15%
6-ART3 Three axle artic		0.47%
7-ART4 Four axle artic		0.58%
8-ART5 Five axle artic		0.82%
9-ART6 Six (or more) axle artic		8.99%
10-BD B double		5.71%

Description: Frankford Main Road (UTS L21/ 5.5 - L57/ 10.02) 193.m W Of Birralee MR [UTS L21/ 5.5 - L57/ 10.02]

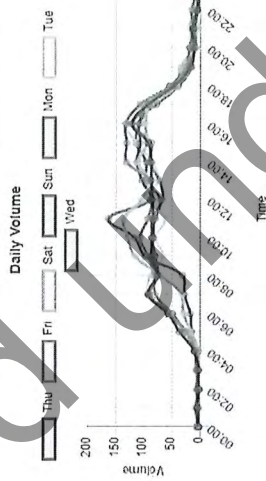
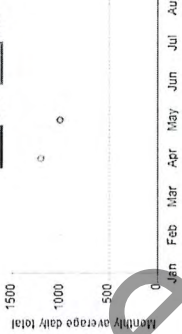
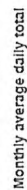
Route number A1044



conflict | Powered by Elin | City of Lancaster, CA | 1000 E. Main, Lancaster, CA 93533

Direction	Weekday average total traffic	7-day average traffic	Weekly traffic total
East	511	540	3,778
West	485	518	3,626
Total	996	1,058	7,404

Annual Statistics										
Data Item	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
AADT	-	-	-	-	-	1,064	-	-	-	1,198
% HV	-	-	-	-	-	21.3%	-	-	-	15.7%



1-SV
Short

80.96%



2-SVT
Short - trailer



3-TB2	Two axle rigid or bus	6.31%
-------	-----------------------	-------



4-TB3	Three axle rigid or bus		0.88%
-------	-------------------------	---	-------



5-T4
Four (or more) axle rigid
0.38%



6-ART3
Three axle artic
0.27%



7-ART4
Four axle artic
0.32%



8-ART5
Five axle artic
0.38%



9-ART6
Six (or more) axle artic



10-BD	1.38%
B double	



A0087644

Description: Midland Highway 250m S Of Glen Dhu Overpass [UTS L97 7.21 TO 9.67]

City: Glen Dhu

Route number: A0087

Site Data



110
km/h



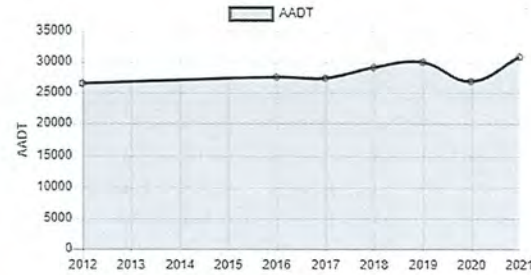
Traffic Statistics by Direction

Direction	Weekday average total traffic	7-day average traffic	Weekly traffic total
North	18,182	16,575	116,026
South	17,411	15,917	111,420
Total	35,593	32,492	227,446

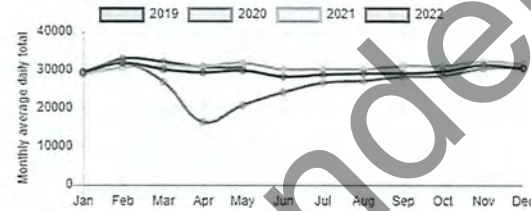
Annual Statistics

Data Item	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
AADT	26,581	-	-	-	27,697	27,513	29,216	30,088	26,978	30,929
% HV	8.6%	-	-	-	8.6%	10.5%	10.5%	10.8%	12.1%	12.1%

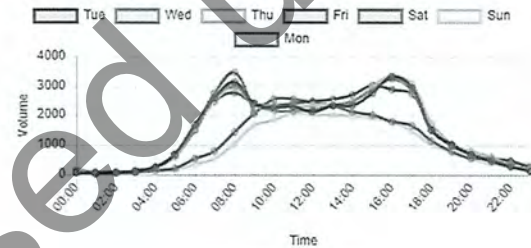
AADT Trend



Monthly average daily total



Daily Volume



Vehicle Classification

1-SV Short		85.99%
2-SVT Short - trailer		1.58%
3-TB2 Two axle rigid or bus		8.77%
4-TB3 Three axle rigid or bus		0.70%
5-T4 Four (or more) axle rigid		0.31%
6-ART3 Three axle artic		0.26%
7-ART4 Four axle artic		0.19%
8-ART5 Five axle artic		0.20%
9-ART6 Six (or more) axle artic		1.43%
10-BD B double		0.53%

From: [Out of scope]
To: [Out of scope]
Subject: RE: Birralelee road
Date: Thursday, 3 August 2023 10:10:00 AM

Hello [Out of scope] - the proposed change to 80 km/h only applies to the 2 km long section through the hamlet of Birralelee itself (nominally between Priestleys Lane and Delantys Road).

There is a relatively higher density of roadside property access in this section.

The remainder of Birralelee Road will retain the default 100 km/h limit.

The change has been approved by the Commissioner for Transport and is expected to be implemented very soon.

Hope this assists.

Thanks, [Out of scope]

[Redacted]
Infrastructure Tasmania | Department of State Growth
GPO Box 536, Hobart TAS 7001
Phone: (03) [Out of scope]
www.stategrowth.tas.gov.au

Courage to make a difference through

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-----Original Message-----

From: [Out of scope]

Sent: Tuesday, 1 August 2023 2:14 PM

To: [Out of scope]

Subject: Birralelee road

Hi [Out of scope]

I've been asked by a member if Birralelee road is planned to be reduced to 80kph. Can you advise?

Thank you!

[Out of scope]
[Redacted]

Tasmanian Transport Association

[Out of scope]

From: Out of scope
To: Out of scope
Subject: RE: Birralelee Flood Repair Works - review draft design
Date: Friday, 18 November 2022 11:14:56 AM
Attachments: [image001.png](#)

Hi Out of scope

The overall seal width is as per the commitment for the project. Lane and shoulder widths (3.3/0.7) came out of the design review meeting for stage 1 that included the Heavy Vehicle Permit area (also the client, Assets and Traffic Engineering) relates to the PBS vehicles that are permitted to use this road now. We are still working on the design, so I haven't had departures etc signed off yet.

Happy to have a further discussion about the linemarking/lane widths.

Regards

Out of scope

Programming and Delivery | Department of State Growth
 Level 2, 4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
 Phone: Out of scope

<http://www.stategrowth.tas.gov.au/>

Courage to make a difference through

TEAMWORK | INTEGRITY | RESPECT | EXCELLENCE

In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

From: Out of scope

Sent: Friday, 18 November 2022 11:06 AM

To: Out of scope

Cc: Out of scope

Subject: RE: Birralelee Flood Repair Works - review draft design

Hello Out of scope

The only question I have is why are we going with an excessive lane width for this category of road?

Regards Out of scope

From: Out of scope <Out of scope@stategrowth.tas.gov.au>

Sent: Tuesday, 15 November 2022 1:43 PM

To: Out of scope <Out of scope@stategrowth.tas.gov.au>; Out of scope

<Out of scope@stategrowth.tas.gov.au>; Out of scope <Out of scope@stategrowth.tas.gov.au>;

Out of scope <Out of scope@stategrowth.tas.gov.au>

Cc: Out of scope <Out of scope@stategrowth.tas.gov.au>

Subject: FW: Birralelee Flood Repair Works - review draft design

Hi all

This is one of our rare flood recovery sites where we actually have a design to review prior to starting work!

As such, if you have time I would appreciate any comments from your respective fields.

Worth noting that due to the urgent nature of the project, we need to undertake sufficient widening without the time for property acquisition – hence the use of the mass bloc walls.

Thanks

Out of scope

From: Out of scope <Out of scope@pittsh.com.au>

Sent: Monday, 14 November 2022 6:27 PM

To: Out of scope [redacted]@stategrowth.tas.gov.au>

Cc: Out of scope [redacted]@pittsh.com.au>; Out of scope [redacted]@stategrowth.tas.gov.au>

Subject: Birralee Flood Repair Works

Hi Out of scope [redacted]

Please find attached Rev A drawings and Section 160 suitable for pricing.

We need to tweak the rate of rotation to reduce aquaplaning and I need to do a draft check on the final drawings – all of which we will get to you as soon as practicable.

Regards,

Out of scope [redacted]

Direct +61 3 Out of scope [redacted] | Mobile +61 Out of scope [redacted] | Out of scope [redacted]@pittsh.com.au | [Connect on LinkedIn](#)

Hobart Office — Level 1, Surrey House, 199 Macquarie Street

PO Box 94 Hobart Tasmania 7001 | Phone +61 3 6210 1400

[pittsh.com.au](#)

[COVID-19 guidance for our clients, guests, suppliers and contractors](#)

Out of scope [redacted]



BIRRALEE MAIN ROAD (A1701)

NORTH OF WESTBURY INDUSTRIAL ESTATE (08/1.30-08/1.70)

FLOOD REPAIRS

CONTRACT NO.

DESIGN

pitt&sherry

SETOUT REVIEW NAME SIGNED DATE	DESIGNED NAME SIGNED DATE	THESE DRAWINGS HAVE BEEN CHECKED, TAKEN TO SITE AND VERIFIED THAT THEY ARE APPROPRIATE FOR SITE CONDITIONS AND CONSTRAINTS. THE DRAWINGS ARE RECOMMENDED FOR ACCEPTANCE.	I CERTIFY THESE DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE BRIEF AND AS DETAILED IN THE FINAL DESIGN REPORT.		CONTRACT No. -	DRAWING S-P.22.1715-00-CIV-DRG-1000	PRINTED DATE 14-Nov-22, 6:09 PM	No. of SHEETS 23
STRUCTURAL REVIEW NAME SIGNED DATE	DESIGN REVIEW NAME SIGNED DATE	DESIGN MANAGER (DESIGN ORGANISATION) SIGNED DATE	PRINCIPAL (DESIGN ORGANISATION) SIGNED DATE		REGISTRATION NUMBER A1701.003			SHEET No. 1000
					ROAD LINK No. START: LINK 94. CH.1.30 FINISH: LINK 94. CH.1.37			REVISION A

TABLE OF CONTENTS		
SHEET NUMBER	REV	DESCRIPTION
1000	A	COVER SHEET
1001	A	TABLE OF CONTENTS
1005	A	PROJECT LEGEND - SHEET 1 OF 5
1006	A	PROJECT LEGEND - SHEET 2 OF 5
1007	A	PROJECT LEGEND - SHEET 3 OF 5
1008	A	PROJECT LEGEND - SHEET 4 OF 5
1009	A	PROJECT LEGEND - SHEET 5 OF 5
1011	A	GENERAL ARRANGEMENT KEY PLAN
1021	A	TYPICAL CROSS SECTION
1031	A	TYPICAL DETAILS
1101	A	GENERAL ARRANGEMENT PLAN - SHEET 1 OF 2
1102	A	GENERAL ARRANGEMENT PLAN - SHEET 2 OF 2
1151	A	STORMWATER CULVERT PROFILE
1201	A	LONGITUDINAL SECTION MC94
1301	A	CROSS SECTIONS MC94 - SHEET 1 OF 9
1302	A	CROSS SECTIONS MC94 - SHEET 2 OF 9
1303	A	CROSS SECTIONS MC94 - SHEET 3 OF 9
1304	A	CROSS SECTIONS MC94 - SHEET 4 OF 9
1305	A	CROSS SECTIONS MC94 - SHEET 5 OF 9
1306	A	CROSS SECTIONS MC94 - SHEET 6 OF 9
1307	A	CROSS SECTIONS MC94 - SHEET 7 OF 9
1308	A	CROSS SECTIONS MC94 - SHEET 8 OF 9
1309	A	CROSS SECTIONS MC94 - SHEET 9 OF 9

	ALIGNMENT PIN
	BENCH MARK
	BOLT
	BOUNDARY PEG
	BOUNDARY ARROW
	DRILL HOLE AND WING
	DUMPY PEG
	G I NAIL
	G I PIPE
	MISCELLANEOUS SURVEY MARK
	NAIL
	PERMANENT MARK
	RM CONCRETE BLOCK
	CONTROL MARK
	SPIKE
	STAR PICKET
	STATE SURVEY MARK
	TRIG STATION-CONCRETE PILLAR
	WATER BOARD PM
	AP-DH-GI-PIPE OR RMCB
	BOLT-DUMPY-NAIL-SPIKE
	DEFAULT SURVEY MARK
	PEG
	PM SSM OR CONTROL MARK
	TRIG STATION
	HORIZONTAL CONTROL POINT
	MINOR CONTROL POINT
	PHOTO CENTRE
	VERTICAL CONTROL POINT

	BOTTOM OF BANK-EMBANKMENT
	BREAKLINE OR RIDGE
	CLIFF-ESCARPMENT
	CULTIVATION PASTURE
	EDGE OF GARDEN
	FORD
	GRASSLAND
	LAKE
	LANDSLIDE-ERODED BANK
	NATURAL SURFACE
	NATURAL SURFACE POINT
	ORCHARD
	RESERVOIR

	RIVER OR CREEK EDGE
	ROCK AREA
	SPOT HEIGHT
	SWAMP OUTLINE
	SWAMP-MARSH
	TIMBER OR SCRUB (DENSE)
	TIMBER OF SCRUB (MEDIUM)
	TIMBER OF SCRUB (SCATTERED)
	TOP OF BANK
	TOP OF CUTTING
	TREE FOLIAGE (TR)
	TREE FOLIAGE - 1m SPREAD
	TREE FOLIAGE - 2m SPREAD
	TREE FOLIAGE - 3m SPREAD
	TREE FOLIAGE - 4m SPREAD
	TREE FOLIAGE - 5m SPREAD
	TREE FOLIAGE - 6m SPREAD
	TREE FOLIAGE - 7m SPREAD
	TREE FOLIAGE - 8m SPREAD
	TREE FOLIAGE - 9m SPREAD
	TREE FOLIAGE - 10m SPREAD
	TREE FOLIAGE - 12m SPREAD
	TREE FOLIAGE - 15m SPREAD
	TREE TRUNK - 100mm DIA
	TREE TRUNK - 200mm DIA
	TREE TRUNK - 300mm DIA
	TREE TRUNK - 400mm DIA
	TREE TRUNK - 500mm DIA
	TREE TRUNK - 600mm DIA
	TREE TRUNK - 700mm DIA
	TREE TRUNK - 800mm DIA
	TREE TRUNK - 900mm DIA
	TREE TRUNK - 1000mm DIA
	TREE TRUNK - 1200mm DIA

	TREE TRUNK - 150mm DIA
	TREE TRUNK - UNSPECIFIED DIAMETER
	WATER EDGE-LEVEL (WE)
EXISTING CONTOURS (PHOTOGRAMMETRY)	
	CONTOUR - AUX (DECIMETRE)
	CONTOUR - AUX (WHOLE METRE)
	CONTOUR - INDEX
	CONTOUR - INDEX DEPRESSION
	CONTOUR - INTER DEPRESSION
	CONTOUR - STANDARD-INTER

	DIGITAL CADASTRE (ACCURACY 1.0m)
	DIGITISING EXTENT (PHOTO)
	DP OVERLAY (ACCURACY 0.1m) (CALCULATED FROM DEPOSITED PLAN)
	EASEMENT
	FIELD COMPLETION
	BOUNDARY (PHOTO) (NF)
	FIELD SURVEY EXTENT (PHOTO)
	LOCAL GOVERNMENT
	PARISH
	TITLE (ACCURACY 0.02m)
	FENCE
	FENCE LINE
	FENCE MANPROOF
	FENCE OTHER
	FENCE POST-GUIDE POST
	GATE

	ENDANGERED COMMUNITY
	ENDANGERED ECOLOGICAL COMMUNITY
	HAZARDOUS SITE
	INDIGENOUS HERITAGE AREA
	NON INDIGENOUS HERITAGE SITE
	HEADSTONE
	HISTORICAL POINT OF INTEREST

	AWNING - POINT
	BOTTOM OF WALL
	BUILDING EAVES
	BUILDING WALLS
	CEMETERY
	CONCRETE SLAB AT GROUND LEVEL
	CORNER OF BUILDING AT NS
	DOORWAY
	FLOOR LEVEL
	GENERAL BUILT-UP AREA
	LOADING BAY-DOCK
	MISCELLANEOUS STRUCTURE
	RETAINING WALL
	RUIN
	SILO OR TANKS
	SPORTING ARENA
	STAIRS - OUTSIDE
	SWIMMING POOL
	TOP OF WALL

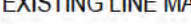
	ABUTMENT BOTTOM POINT
	ABUTMENT TOP
	ABUTMENT TOP POINT
	CAP-PILE
	DECK
	EXPANSION JOINT
	EXPANSION PLATE
	HEADSTOCK
	PIER-COLUMN
	PIER-COLUMN POINT
	UNDERNEATH CLEARANCE
	WING WALL

				SCALES	pltt&sherry		Department of State Growth	CONTRACT No. -	DRAWING S-P.22.1715-00-CIV-DRG-1005	PRINTED DATE 14-Nov-22, 6:09 PM	SHEET No. 1005	
A	ISSUE FOR PRICING	LJB	14/11/2022									
No.	Amendment Description	Initials	Date		DESIGNED	LJA	NORTH OF WESTBURY INDUSTRIAL ESTATE (08/1.30-08/1.70) FLOOD REPAIRS	REGISTRATION NUMBER A1701.003				
A3 original	This sheet may be prepared using colour and may be incomplete if copied			Co-ordinate System: MGA20 / Z55	Height Datum: AHD-TAS	3 REVIEWED						LJB
							PROJECT LEGEND - SHEET 1 OF 5					REVISION A

EXISTING RAIL INFRASTRUCTURE

	RAILWAY CONTROL BOX
	RAILWAY FORMATION EDGE
	RAILWAY RAMP
	RAILWAY SIGNAL
	RAILWAY SIGNAL TROUGH
	RAILWAY SIGNAL TROUGH - POINT
	RAILWAY STANCHION
	RAILWAY TRACK CENTRE
	RAILWAY TRACK MONUMENT
	TOP OF RAIL
	TOP OF RAIL - POINT
	TOP OF RAILWAY PLATFORM

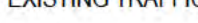
EXISTING ROAD INFRASTRUCTURE

	BACK OF KERB
	CENTRE OF ROAD
	DRIVEWAY
	EDGE OF FORMATION
	EDGE OF MEDIAN
	EDGE OF PAVEMENT
	EDGE OF TRACK
	EDGE OF UNSEALED ROAD
	FOOTPATH
	GUTTER FLOW LINE
	LIP LINE
	OFFSET CROWN-CROWN
	PRAM RAMP
	SAFETY BARRIER GUARD FENCE
	SAFETY BARRIER TYPE F
	SAFETY BARRIER WIRE ROPE
	TOP OF KERB
	TOP OF MEDIAN
	VEHICULAR TRACK EDGE
	POINT ON BITUMEN

EXISTING LINE MARKING

	ARROW - LEFT TURN
	ARROW - RIGHT TURN
	ARROW - STRAIGHT AHEAD
	ARROW - STRAIGHT AHEAD AND LEFT
	ARROW - STRAIGHT AHEAD AND RIGHT
	BARRIER AND SEPARATION
	SEPARATION AND BARRIER

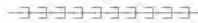
EXISTING LINE MARKING (Continued)

	CHEVRON MARKING LEFT
	CHEVRON MARKING RIGHT
	CLEARWAY (3x3)
	CONTINUITY/EDGE INTERMITTENT (1x3)
	DOUBLE BARRIER
	LANE/SEPARATION (3x9)
	LANE (3x6)
	LANE/SEPARATION LINE (9x3)
	SEPARATION (3x1)
	GIVEWAY/HOLDING LINE/JUNCTION CONTINUITY
	PEDESTRIAN CROSSING (SIGNALS)
	PEDESTRIAN CROSSING ZEBRA
	PEDESTRIAN CROSSING APPROACH (ZIG ZAG)
	SPEED ZONE - 40km/h
	SPEED ZONE - 50km/h
	SPEED ZONE - 60km/h
	SPEED ZONE - 70km/h
	SPEED ZONE - 80km/h
	SPEED ZONE - 90km/h
	SPEED ZONE - 100km/h
	SPEED ZONE - 110km/h
	TRAFFIC MARKER
	UNBROKEN

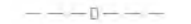
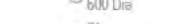
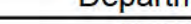
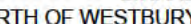
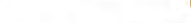
EXISTING TRAFFIC CONTROL SYSTEMS

	SIGNAL DETECTOR
	TRAFFIC CONTROL SIGNAL
	TRAFFIC LIGHT WITH OUTREACH
	TRAFFIC SIGNAL CONTROLLER
	TRAFFIC SIGNAL DETECTOR
	TRAFFIC SIGNAL JUNCTION BOX
	TRAFFIC SIGNAL CABLE

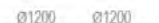
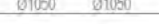
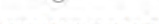
EXISTING DRAINAGE

	BATTER DRAIN / GI FLUME
	BOX CULVERT - 150 HIGH
	BOX CULVERT - 225 HIGH
	BOX CULVERT - 300 HIGH
	BOX CULVERT - 375 HIGH
	BOX CULVERT - 450 HIGH
	BOX CULVERT - 600 HIGH
	BOX CULVERT - 750 HIGH
	BOX CULVERT - 900 HIGH
	BOX CULVERT - 1050 HIGH

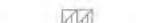
EXISTING DRAINAGE (Continued)

	BOX CULVERT - 1200 HIGH
	BOX CULVERT - 1500 HIGH
	BOX CULVERT - 1800 HIGH
	BOX CULVERT - 2100 HIGH
	BOX CULVERT - 2400 HIGH
	BOX CULVERT - 2700 HIGH
	BOX CULVERT - 3000 HIGH
	BOX CULVERT - 3300 HIGH
	BOX CULVERT - 3600 HIGH
	BOX CULVERT - UNSPECIFIED HEIGHT
	DISH DRAIN
	DRAIN-TABLE DRAIN
	DRAINAGE BOX
	DRAINAGE - DIGITISED (GIS)
	DRAINAGE JUNCTION MANHOLE
	DRAINAGE PIT
	END OF WINGWALL
	FLOOD HEIGHT
	GULLY PIT
	GULLY PIT POINT
	HEADWALL BOTTOM
	HEADWALL BOTTOM POINT
	HEADWALL TOP
	HEADWALL TOP POINT
	INLET TO SUMP
	INVERT - 225 DIA
	INVERT - 300 DIA
	INVERT - 375 DIA
	INVERT - 450 DIA
	INVERT - 525 DIA
	INVERT - 600 DIA
	INVERT - 750 DIA
	INVERT - 900 DIA
	INVERT - 1050 DIA
	INVERT - 1200 DIA
	INVERT - 1350 DIA
	INVERT - 1500 DIA
	INVERT - 1650 DIA
	INVERT - 1800 DIA
	INVERT OF PIPE
	INVERT OF SUBSOIL DRAIN OUTLET
	KERB INLET
	OBVERT OF PIPE
	STORMWATER (GIS)

EXISTING DRAINAGE (Continued)

	PIPE - 225 DIA
	PIPE - 300 DIA
	PIPE - 375 DIA
	PIPE - 450 DIA
	PIPE - 525 DIA
	PIPE - 600 DIA
	PIPE - 750 DIA
	PIPE - 900 DIA
	PIPE - 1050 DIA
	PIPE - 1200 DIA
	PIPE - 1350 DIA
	PIPE - 1500 DIA
	PIPE - 1650 DIA
	PIPE - 1800 DIA
	PIPE - UNSPECIFIED DIAMETER
	SUBSOIL DRAIN FLUSH POINT/MARKER
	TOP OF CONCRETE JUNCTION BOX
	WATER COURSE
	WATER LEVEL POINT

EXISTING COMMUNICATIONS SERVICES

	ABOVE GROUND JOINING POST
	ITS CABLE
	OPTICAL FIBRE - ABOVE GROUND
	OPTICAL FIBRE - DIGITISED (GIS)
	OPTICAL FIBRE - UNDERGROUND
	OPTICAL FIBRE CABLE MARKER
	OPTICAL FIBRE FIBRE CONDUIT
	OPTICAL FIBRE JUNCTION BOX
	OPTICAL FIBRE PIT
	STD MAIN PIT
	TELEPHONE - HOUSE CONNECTION
	TELEPHONE - BOX
	TELEPHONE BOX POINT
	TELEPHONE CABLE MARKER
	TELEPHONE DISTRIBUTION PILLAR
	TELEPHONE CONDUIT
	TELEPHONE LINE
	TELEPHONE LINE - DIGITISED (GIS)
	TELEPHONE POLE
	TELEPHONE SINGLE CONCRETE PIT
	TELEPHONE SUMP
	TELEPHONE TRANSMITTER - MOBILE
	TELEPHONE TRIPLE CONCRETE PIT
	TELEPHONE TWIN CONCRETE PIT

	CABLE JUNCTION BOX
	CABLE MANHOLE
	CABLE MARKER
	CONDUIT
	DISTRIBUTION FUSE POINT
	GARDEN LIGHT
	HIGH TENSION PYLON
	HOUSE CONNECTION
	LIGHT WITH OUTREACH
	LINE - DIGITISED
	LINE - MAJOR TRANSMISSION
	LINE - MINOR TRANSMISSION
	LINE - UNDERGROUND
	MAIN SUMP
	POLE - LIGHT
	POLE - POWER
	POLE - POWER AND LIGHT
	POLE - POWER AND TRANSFORMER
	POWER SERVICE PILLAR - UNDERGROUND
	PYLON LEG
	STAY ANCHOR POLE
	STAY POLE
	SUSPENDED LIGHT
	TRANSFORMER CABINET
	TRANSFORMER CABINET CENTRE
	CONDUIT (GIS)
	LINE - MAJOR TRANSMISSION (GIS)
	LINE - MINOR TRANSMISSION (GIS)
	LINE - UNDERGROUND (GIS)

	HOUSE CONNECTION
	LAMPHOLE
	MAIN
	MAIN - DIGITISED (GIS)
	MANHOLE COVER
	SEWAGE POND
	SEPTIC TANK
	VENT PIPE
	PUMP STATION

	ETHANE PIPELINE
	HOUSE CONNECTION
	MAIN - DIGITISED (GIS)
	MAIN - HIGH PRESSURE PIPELINE
	MAIN - LOW PRESSURE
	MAIN - NYLON
	MAIN - POLYETHYLENE
	MANHOLE COVER
	METER
	PIPELINE MARKER
	PIPELINE MARKER - HIGH PRESSURE
	REGULATOR BOX
	TEST POINT
	VALVE BOX
	VENT PIPE

	AIR VALVE
	AIR VALVE - RECYCLED
	EARTH TERMINAL
	EARTH TERMINAL - RECYCLED
	FIRE HYDRANT
	HOUSE CONNECTION
	HYDRANT
	HYDRANT - RECYCLED
	MAIN
	MAIN - DIGITISED (GIS)
	MAIN - RECYCLED
	MAIN MARKER
	MAIN MARKER - RECYCLED
	METER
	METER - RECYCLED
	OVERHEAD PIPELINE
	STOP VALVE
	STOP VALVE - RECYCLED
	TAP
	TAP - RECYCLED
	SCOUR VALVE
	SCOUR VALVE - RECYCLED
	UNIDENTIFIED PIPELINE
	WATER COURSE (GIS)

	BORE HOLE
	CAMERA - FLASH UNIT
	CHECK STRING
	GATIC COVER LID
	GOLF COURSE
	HIGH PRESSURE OIL PIPELINE
	HIGH PRESSURE OIL PIPELINE MARK
	HOTSPOT
	JOIN LINE (BOUNDARY)
	BREAK STRINGS
	PARK OR OPEN SPACE
	PETROL PUMP
	POT HOLE - NULL LEVEL
	POT HOLE - WITH RL
	RED LIGHT-SPEED-TRAFFIC CAMERA
	SEISMIC LINE
	SEISMIC TEST SHOT
	SERVICE-JUNCTION BOX
	STOCK GRID
	STOCKPILE
	TEST PIT
	UNDERGROUND TANK
	UNDERGROUND TANK POINT
	UNIDENTIFIED POLE
	UNIDENTIFIED SERVICE
	BIN - LARGE
	BOLLARD
	BUS SHELTER
	BUS STOP
	FIREPLACE
	FLAG POLE

	LARGE SIGN
	MAILBOX
	PARKING METER
	PICNIC TABLE
PUMP	PUMP
BIN	RUBBISH BIN
	SAFETY FENCE - PEDESTRIAN
	SEAT
	SIGN POST
	SIGN POST - DOUBLE SIDED
	SIGN WITH OUTREACH
	WINDMILL
	WINDMILL - POINT
	MARKER - ENVIRONMENTAL/OTHER

				SCALES				Department of State Growth		CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.		
								BIRRALEE MAIN ROAD (A1701) NORTH OF WESTBURY INDUSTRIAL ESTATE (08/1.30-08/1.70) FLOOD REPAIRS		-	S-P.22.1715-00-CIV-DRG-1007	14-Nov-22, 6:09 PM	1007		
A	ISSUE FOR PRICING	LJB	14/11/2022							REGISTRATION NUMBER				REVISION A	
No.	Amendment Description	Initials	Date							A1701.003					
A3 original	This sheet may be prepared using colour and may be incomplete if copied			Co-ordinate System: MGA20 / Z55	Height Datum: AHD-TAS	DESIGNED	LJA								
						REVIEWED	LJB	PROJECT LEGEND - SHEET 3 OF 5							

PROPOSED BOUNDARIES

	CADASTRAL
	EASEMENT
	LIMIT OF CONTRACT
	EXTENT OF PROJECT
	FENCE - GENERAL (POST & WIRE)
	FENCE - CHAINWIRE
	FENCE - OTHER
	SAFETY FENCE - PEDESTRIAN
	FENCE - SOUND
	FENCE - REDUNDANT/REMOVED
	GATE

PROPOSED BUILDINGS & STRUCTURES

	ROOFLINE
	WALL
	DOORWAY
	FLOOR LEVEL
	RETAINING WALL
	STAIRS - OUTSIDE

PROPOSED BRIDGE STRUCTURES

	ABUTMENT BOTTOM
	BRIDGE DECK
	PIER/COLUMN

PROPOSED RAIL INFRASTRUCTURE

	RAILWAY TRACK CENTRE
	TOP OF RAIL
	RAILWAY FORMATION EDGE
	RAILWAY SIGNAL TROUGH
	RAILWAY CONTROL BOX
	RAILWAY SIGNAL
	RAILWAY STANCHION

PROPOSED ROAD INFRASTRUCTURE

	CONTROL LINE - CENTRELINE
	CONTROL LINE - FILLET
	CONTROL LINE - KERB
	OFFSET CROWN
	EDGE OF LANE SEAL
	EDGE OF MEDIAN
	EDGE OF SHOULDER (SEALED)
	EDGE OF FORMATION (UNSEALED)
	SAFETY BARRIER STEEL BEAM
	SAFETY BARRIER WIRE ROPE
	SAFETY BARRIER TYPE F

PROPOSED ROAD INFRASTRUCTURE (Continued)

	KERB - LIP LINE/EDGE OF SEAL
	KERB - INVERT
	KERB - TOP
	KERB - BACK
	FOOTPATH BACK/FOOTPATH FRONT
	TABLE DRAIN
	EDGE OF VERGE
	EARTHWORKS - HINGE
	EARTHWORKS - BATTER
	EARTHWORKS - BENCH
	DRIVEWAY/ACCESS
	INTERFACE/JOINT
	SUBGRADE
	BATTER SYMBOL
	SLOPE SIGNATURE

PROPOSED LINE MARKING

	ARROW - LEFT TURN
	ARROW - RIGHT TURN
	ARROW - STRAIGHT AHEAD
	ARROW - STRAIGHT AHEAD & LEFT
	ARROW - STRAIGHT AHEAD & RIGHT
	ARROW - MERGE (RURAL)
	ARROW - MERGE (URBAN)
	ARROW - UTURN
	BARRIER (ONE DIRECTION) PD (B1) & (B1a)
	BARRIER (ONE DIRECTION) CD (B1) & (B1a)
	BARRIER (BOTH DIRECTIONS) (B2) & (B2a)
	BARRIER (BOTH DIRECTIONS) (B3) & (B3a)
	BARRIER (BOTH DIRECTIONS) (B4) & (B4a)
	SEPARATION (RURAL) (S) & (Sa)
	SEPARATION (URBAN) (S1)
	SEPARATION (MEDIAN LANE) (S2)
	SEPARATION (SPECIAL PURPOSE) (S3) & (S3a)
	SEPARATION (BICYCLE PATHS) (S4)
	LANE (RURAL) (L)
	LANE (URBAN) (L1)
	LANE (TURNOUT LANE) (L2)
	LANE (SPECIAL PURPOSE) (L3)
	LANE (CONTINUOUS) (LC)
	CONTINUITY (C)
	CONTINUOUS CONTINUITY (CC) & (CCa)
	EDGE (URBAN) (E)

PROPOSED LINE MARKING (Continued)

	EDGE CONTINUITY (URBAN) (EC)
	EDGE RURAL (E2) & (E2a)
	EDGE CONTINUITY (RURAL) (EC2)
	STOP (SL)
	HOLDING (HL)
	JUNCTION CONTINUITY (JC)
	TURN TRAFFIC SIGNALS (T)
	PEDESTRIAN WALKWAY (W)
	NO STOPPING (NS)
	LINEMARKING IDENTIFICATION CODE
	RRPM - WHITE - UNIDIRECTIONAL
	RRPM - WHITE - BIDIRECTIONAL
	RRPM - YELLOW - UNIDIRECTIONAL
	RRPM - YELLOW - BIDIRECTIONAL
	RRPM - RED - UNIDIRECTIONAL
	RRPM - GREEN - UNIDIRECTIONAL
	RRPM - NON REFLECTIVE

PROPOSED TRAFFIC CONTROL SYSTEMS

	TRAFFIC SIGNAL CABLE
	TRAFFIC SIGNAL CONDUIT
	TRAFFIC SIGNAL DETECTOR LOOP
	3 ASPECT LANTERN & PHASE
	LOUVRED 3 ASPECT LANTERN
	3 ASPECT OVERHEAD LANTERN & PHASE
	3 ASPECT LANTERN WITH GREEN+YELLOW+RED TURN ARROWS & PHASE
	GREEN+YELLOW+RED TURN ARROWS & PHASE
	GREEN + YELLOW TURN ARROWS & PHASE
	GREEN TURN ARROW AND PHASE
	GREEN TURN ARROW WITH FULL RED + YELLOW ASPECTS AND PHASE
	GREEN+YELLOW TURN ARROWS WITH RED ASPECT & PHASE
	PEDESTRIAN PUSH BUTTON
	PEDESTRIAN LANTERN & WALK PHASE
	TRAFFIC SIGNAL - WIG WAG LANTERNS
	TRAFFIC SIGNAL - LOUVRE
	TRAFFIC SIGNAL CONTROLLER
	TRAFFIC SIGNAL JUNCTION BOX

PROPOSED DRAINAGE

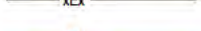
	STORMWATER PIPE
	STORMWATER PIPE - REDUNDANT
	BATTER DRAIN
	DISH DRAIN
	CATCH DRAIN/OPEN DRAIN
	CATCH DRAIN/OPEN DRAIN - LINED
	SUBSOIL DRAIN - GENERAL
	SUBSOIL DRAIN - CLASS 400
	SUBSOIL DRAIN - CLASS 1000
	SUBSOIL DRAIN - STRIP DRAIN
	SURFACE DRAIN - TYPE A1 (UNLINED)
	SURFACE DRAIN - TYPE A2 (LINED)
	SURFACE DRAIN - TYPE B1 (UNLINED)
	SURFACE DRAIN - TYPE B2 (LINED)
	SURFACE DRAIN - TYPE C1 (UNLINED)
	SURFACE DRAIN - TYPE C2 (LINED)
	SURFACE DRAIN
	SURFACE DRAIN - TYPE 1
	SURFACE DRAIN - TYPE 2
	SURFACE DRAIN - TYPE 3
	SURFACE DRAIN - TYPE 4
	SURFACE DRAIN - TYPE 5
	BOX CULVERT
	PIPE
	ACCESS PIT
	SIDE ENTRY PIT - KERB
	GRATED PIT - KERB
	GRATED PIT - V GUTTER
	GRATED PIT - OPEN DRAIN
	GRATED PIT - TABLE DRAIN
	CATCH PIT - TABLE DRAIN
	SUBSOIL DRAIN FLUSH POINT
	TOP OF CONCRETE JUNCTION BOX
	INVERT OF SUBSOIL DRAIN OUTLET
	KERB SCUPPER
	OBVERT OF PIPE
	ENDWALL - PLAIN / MC
	ENDWALL - SINGLE & MULTI RC [SQUARE]
	ENDWALL - SINGLE RC [SKEWED]
	ENDWALL - TWIN RC [SKEWED]
	ENDWALL - MULTI RC [SKEWED]
	ENDWALL - DRIVEABLE - TYPE 1
	ENDWALL - DRIVEABLE - TYPE 2

						SCALES						Department of State Growth				CONTRACT No. -		DRAWING S-P-22.1715-00-CIV-DRG-1008		PRINTED DATE 14-Nov-22, 6:09 PM		SHEET No. 1008	
												BIRRALEE MAIN ROAD (A1701) NORTH OF WESTBURY INDUSTRIAL ESTATE (08/1.30-08/1.70) FLOOD REPAIRS											
A		ISSUE FOR PRICING				LJB		14/11/2022		DESIGNED		LJA											
No.		Amendment Description				Initials		Date		REVIEWED		LJB		PROJECT LEGEND - SHEET 4 OF 5									
A3 original		This sheet may be prepared using colour and may be incomplete if copied				Co-ordinate System:		MGA20 / Z55		Height Datum:		AHD-TAS3								REGISTRATION NUMBER A1701.003			
REVISION A																							

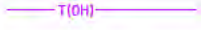
PROPOSED DRAINAGE (Continued)

	BATTER DRAIN - SPLASH APRON
	BATTER DRAIN - ENERGY DISSIPATOR
	PIPE OUTLET - ENERGY DISSIPATOR [ON LINE]
	PIPE OUTLET - ENERGY DISSIPATOR [DEFLECTED]

PROPOSED ELECTRICAL SERVICES

	LINE - GENERAL
	LINE - MAJOR TRANSMISSION
	LINE - MINOR TRANSMISSION
	LINE - UNDERGROUND
	LINE - REDUNDANT
	HOUSE CONNECTION
	CONDUIT
	CABLE JUNCTION BOX
	CABLE MANHOLE
	DISTRIBUTION FUSE POINT
	HIGH TENSION PYLON
	LIGHT WITH OUTREACH
	POLE - LIGHT
	POLE - POWER
	POLE - POWER AND LIGHT
	POLE - POWER AND TRANSFORMER
	POWER SERVICE PILLAR
	STAY ANCHOR POLE
	STAY POLE
	TRANSFORMER CABINET CENTRE

PROPOSED COMMUNICATIONS

	TELEPHONE LINE
	TELEPHONE LINE - ABOVE GROUND
	TELEPHONE CONDUIT
	TELEPHONE LINE - REDUNDANT
	OPTICAL FIBRE - ABOVE GROUND
	OPTICAL FIBRE - UNDERGROUND
	OPTICAL FIBRE FIBRE CONDUIT
	ITS CABLE
	ABOVE GROUND JOINING POST
	OPTICAL FIBRE JUNCTION BOX
	OPTICAL FIBRE PIT
	TELEPHONE CABLE MARKER
	TELEPHONE DISTRIBUTION PILLAR
	TELEPHONE POLE
	TELEPHONE SINGLE CONCRETE PIT
	TELEPHONE TRANSMITTER - MOBILE
	TELEPHONE TRIPLE CONCRETE PIT
	TELEPHONE TWIN CONCRETE PIT

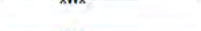
PROPOSED GAS SERVICES

	MAIN - GENERAL
	ETHANE PIPELINE
	HOUSE CONNECTION
	MAIN - HIGH PRESSURE PIPELINE
	MAIN - LOW PRESSURE
	MAIN - NYLON
	MAIN - POLYETHYLENE
	MAIN - REDUNDANT
	MANHOLE COVER
	METER
	PIPELINE MARKER
	PIPELINE MARKER - HIGH PRESSURE
	REGULATOR BOX
	TEST POINT
	VALVE BOX
	VENT PIPE

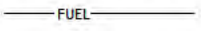
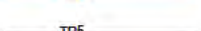
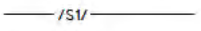
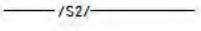
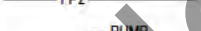
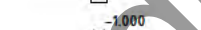
PROPOSED SEWER SERVICES

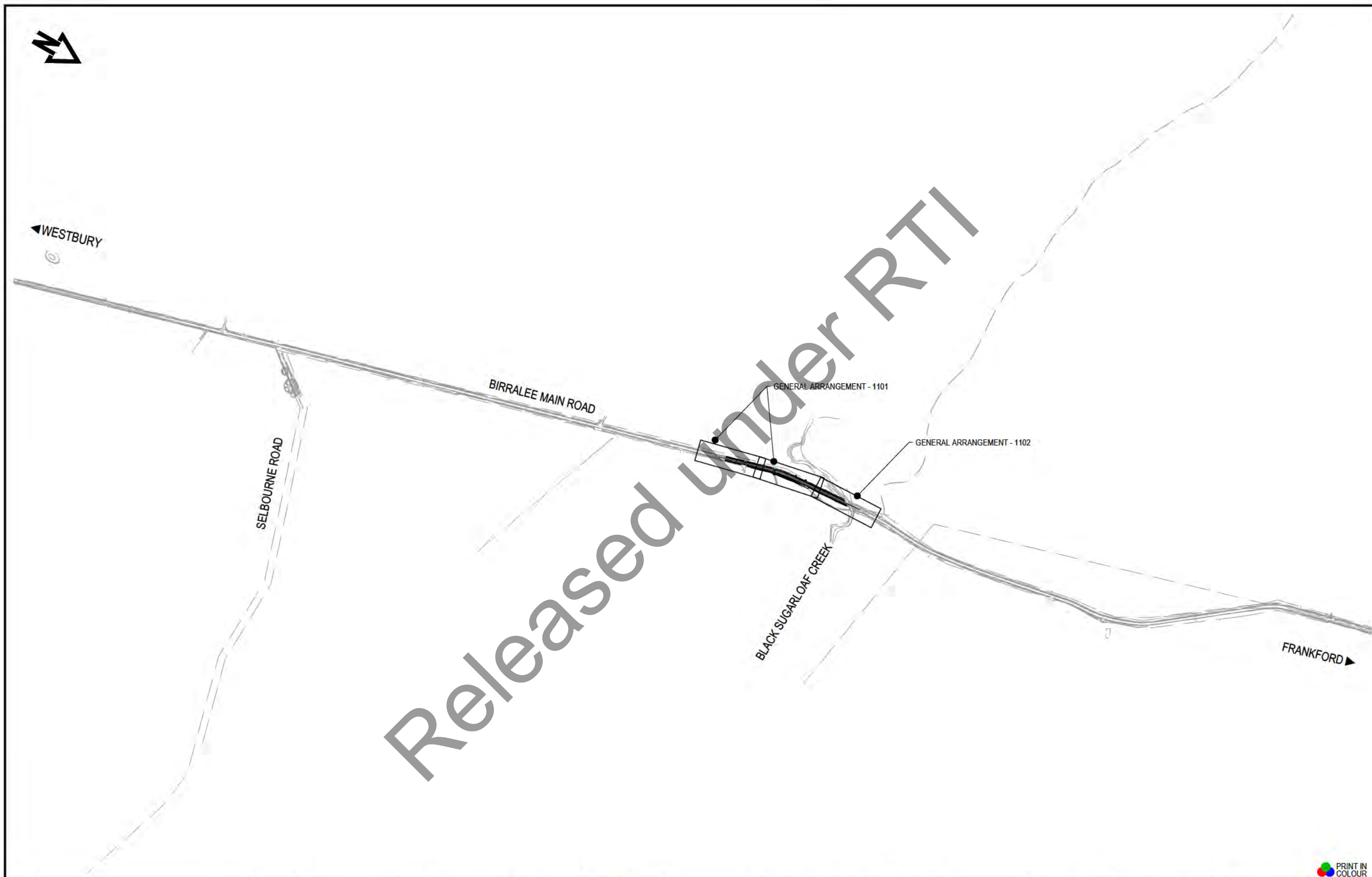
	MAIN
	MAIN - REDUNDANT
	HOUSE CONNECTION
	SEWAGE POND
	MANHOLE COVER
	VENT PIPE
	PUMP STATION

PROPOSED WATER SERVICES

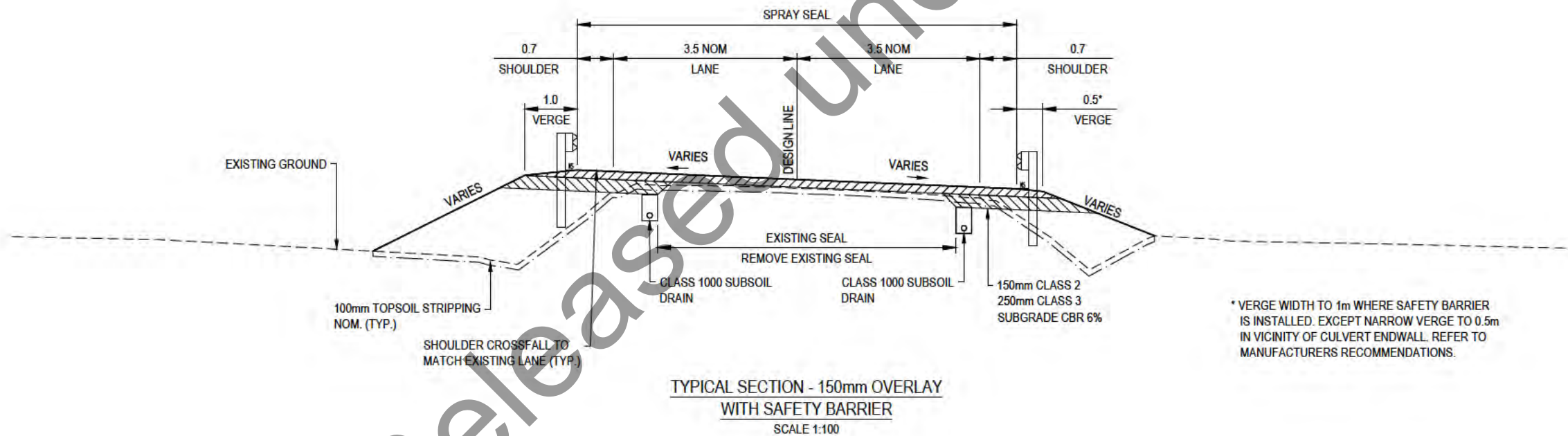
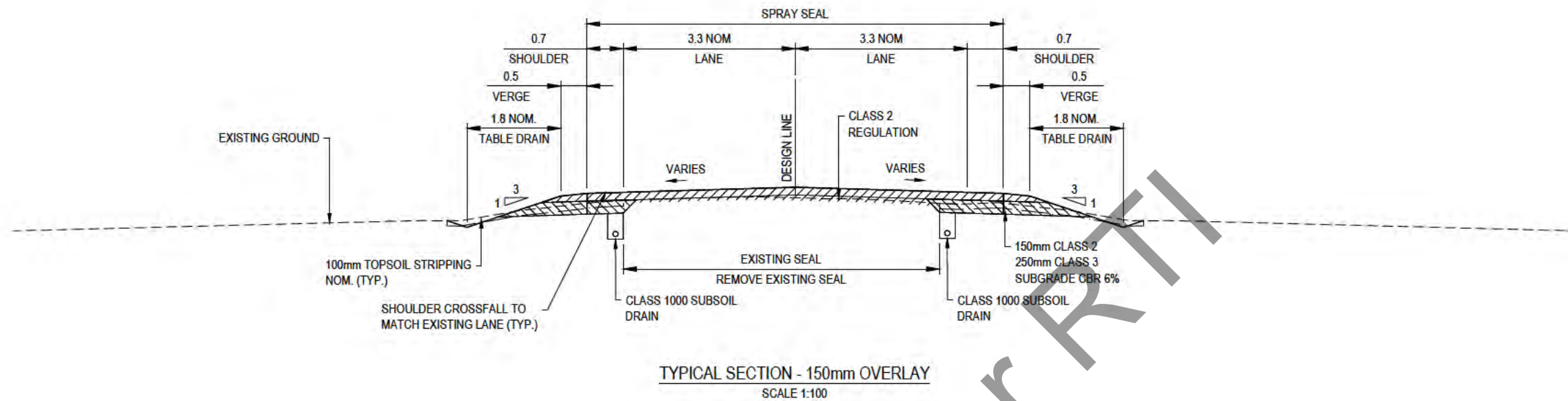
	MAIN
	MAIN - REGIONAL
	MAIN - RECYCLED
	MAIN - REDUNDANT
	HOUSE CONNECTION
	OVERHEAD PIPELINE
	IRRIGATION PIPELINE
	AIR VALVE
	AIR VALVE - RECYCLED
	FIRE HYDRANT
	HYDRANT
	HYDRANT - RECYCLED
	METER
	METER - RECYCLED
	STOP VALVE
	STOP VALVE - RECYCLED
	TAP
	TAP - RECYCLED
	SCOUR VALVE
	SCOUR VALVE - RECYCLED

PROPOSED MISCELLANEOUS ITEMS

	FUEL PIPELINE
	UNDERGROUND TANK
	SAW CUT
	SERVICE TRENCH - TYPE 1
	SERVICE TRENCH - TYPE 2
	SERVICE TRENCH - TYPE 3
	SERVICE TRENCH - TYPE 4
	SERVICE TRENCH - TYPE 5
	SERVICE TRENCH - TYPE 6
	SERVICE TRENCH - TYPE 7
	SERVICE TRENCH - TYPE 8
	SERVICE TRENCH - TYPE 9
	SILT STOP FENCE - TYPE 1
	SILT STOP FENCE - TYPE 2
	SEDIMENT TRAP
	PRESERVATION FENCE - TYPE 1
	PRESERVATION FENCE - TYPE 2
	PUMP STATION
	UTILITY - EXPOSED
	BIN - LARGE
	BOLLARD
	BUS STOP
	FENCE POST-GUIDE POST
	LARGE SIGN
	MAILBOX
	PARKING METER
	RUBBISH BIN
	SIGN POST
	SIGN POST - DOUBLE SIDED
	TREES TO BE REMOVED
	TREES TO BE RETAINED



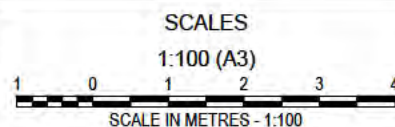
				Department of State Growth BIRRALEE MAIN ROAD (A1701) NORTH OF WESTBURY INDUSTRIAL ESTATE (08/1.30-08/1.70) FLOOD REPAIRS GENERAL ARRANGEMENT KEY PLAN		CONTRACT No. -	DRAWING S-P.22.1715-00-CIV-DRG-1011	PRINTED DATE 14-Nov-22, 6:09 PM	SHEET No. 1011 REVISION A
				pltt&sherry Tasmanian Government					
				DESIGNED LJA REVIEWED LJB					



NOTE:

1. FULL WIDTH SEAL TYPE TO BE DESIGNED BY CONTRACTOR.
2. REFER CROSS SECTIONS FOR LANE CURVE WIDENING
3. FOR BATTER TYPES AND SLOPES REFER GENERAL ARRANGEMENT DRAWINGS AND CROSS SECTIONS

				Department of State Growth BIRRALEE MAIN ROAD (A1701) NORTH OF WESTBURY INDUSTRIAL ESTATE (08/1.30-08/1.70) FLOOD REPAIRS		CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
						-	S-P.22.1715-00-CIV-DRG-1021	14-Nov-22, 6:10 PM	1021
						REGISTRATION NUMBER			
						A1701.003			
						REVISION A			



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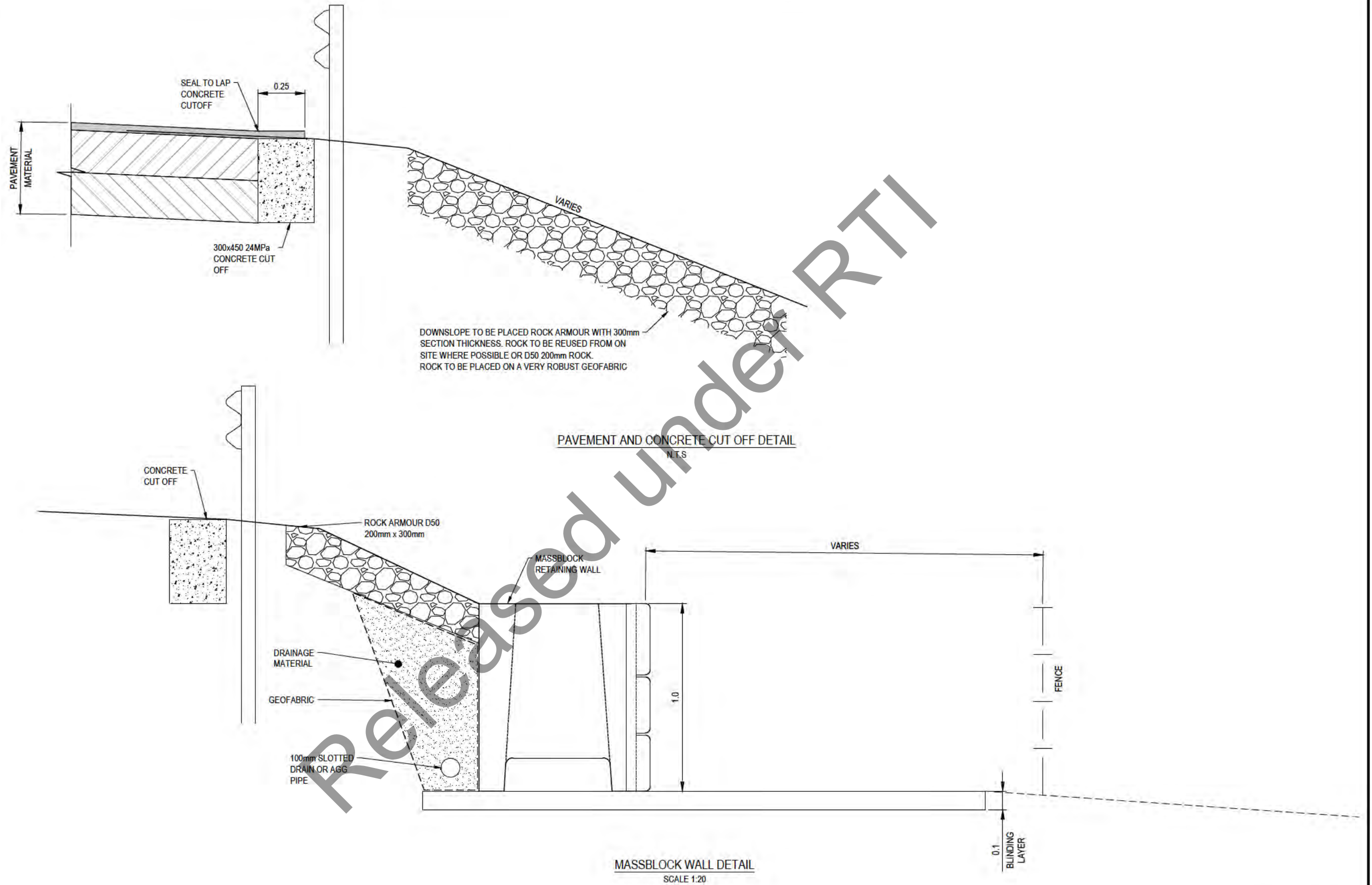
DESIGNED LJA
REVIEWED LJB

Co-ordinate System: MGA20 / Z55

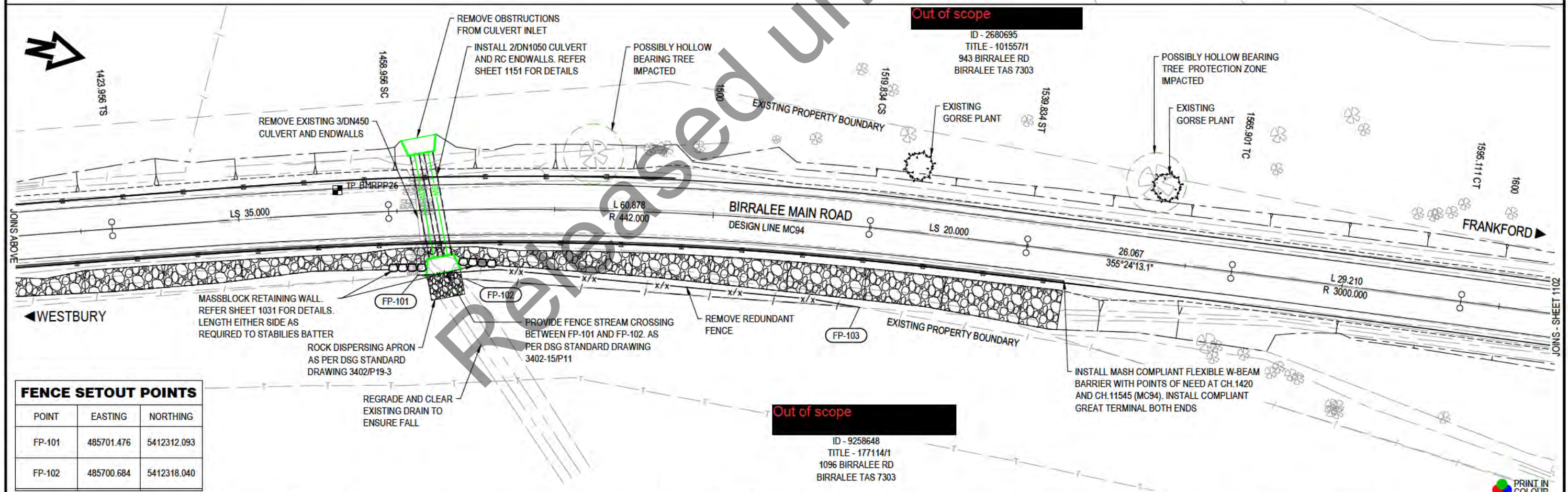
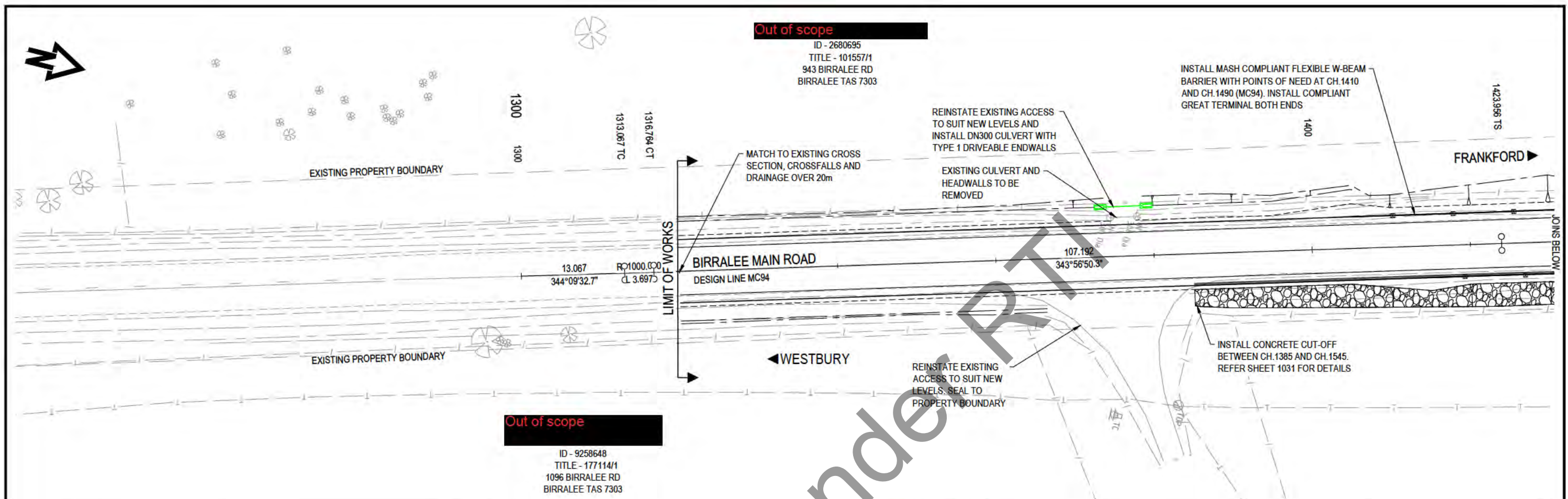
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TYPICAL CROSS SECTION

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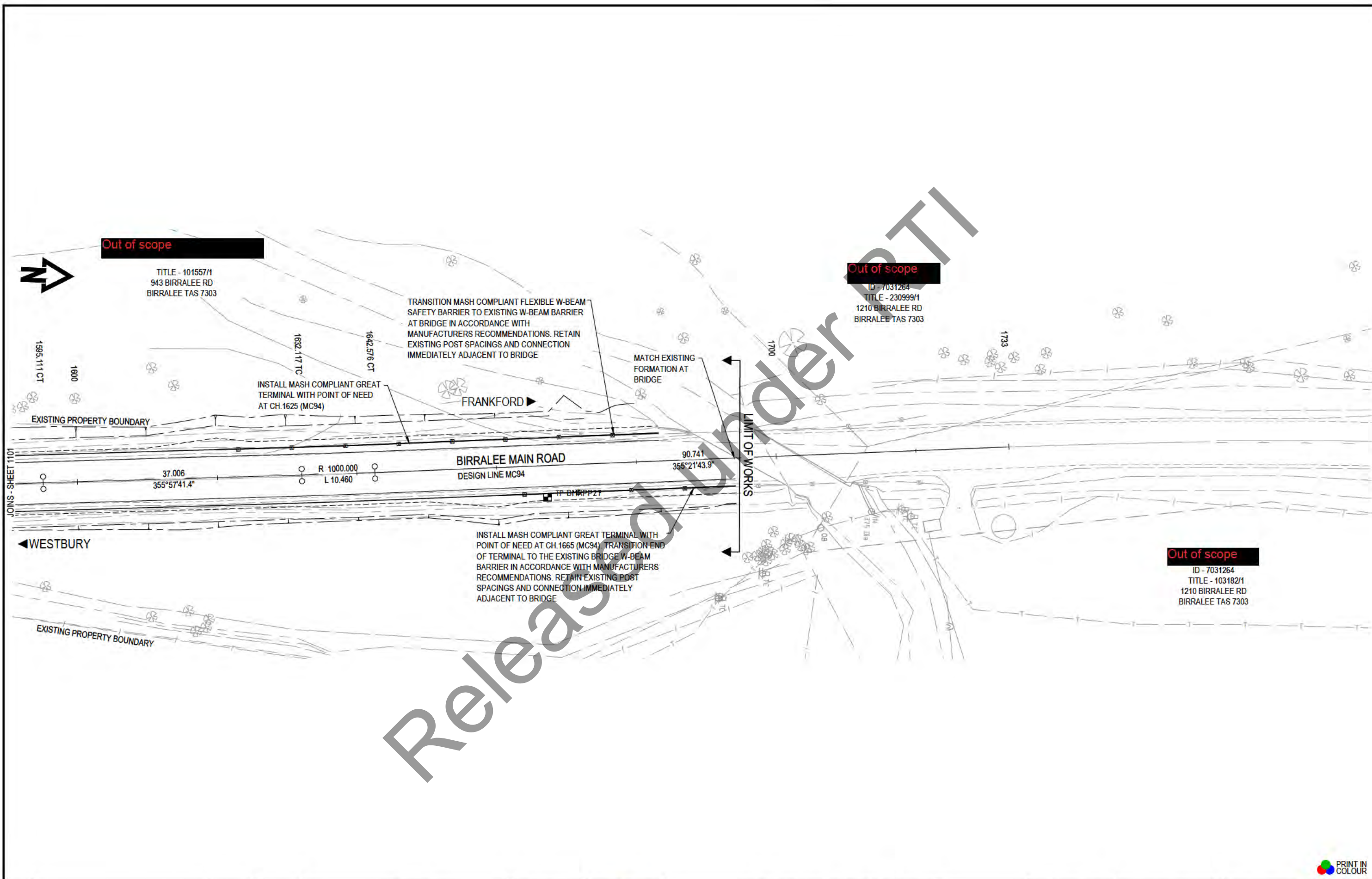
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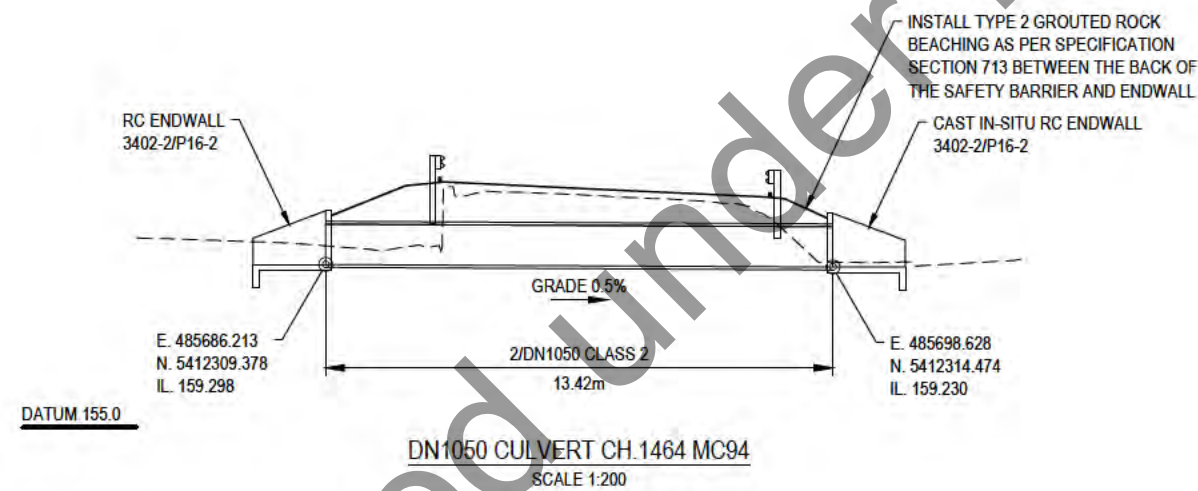
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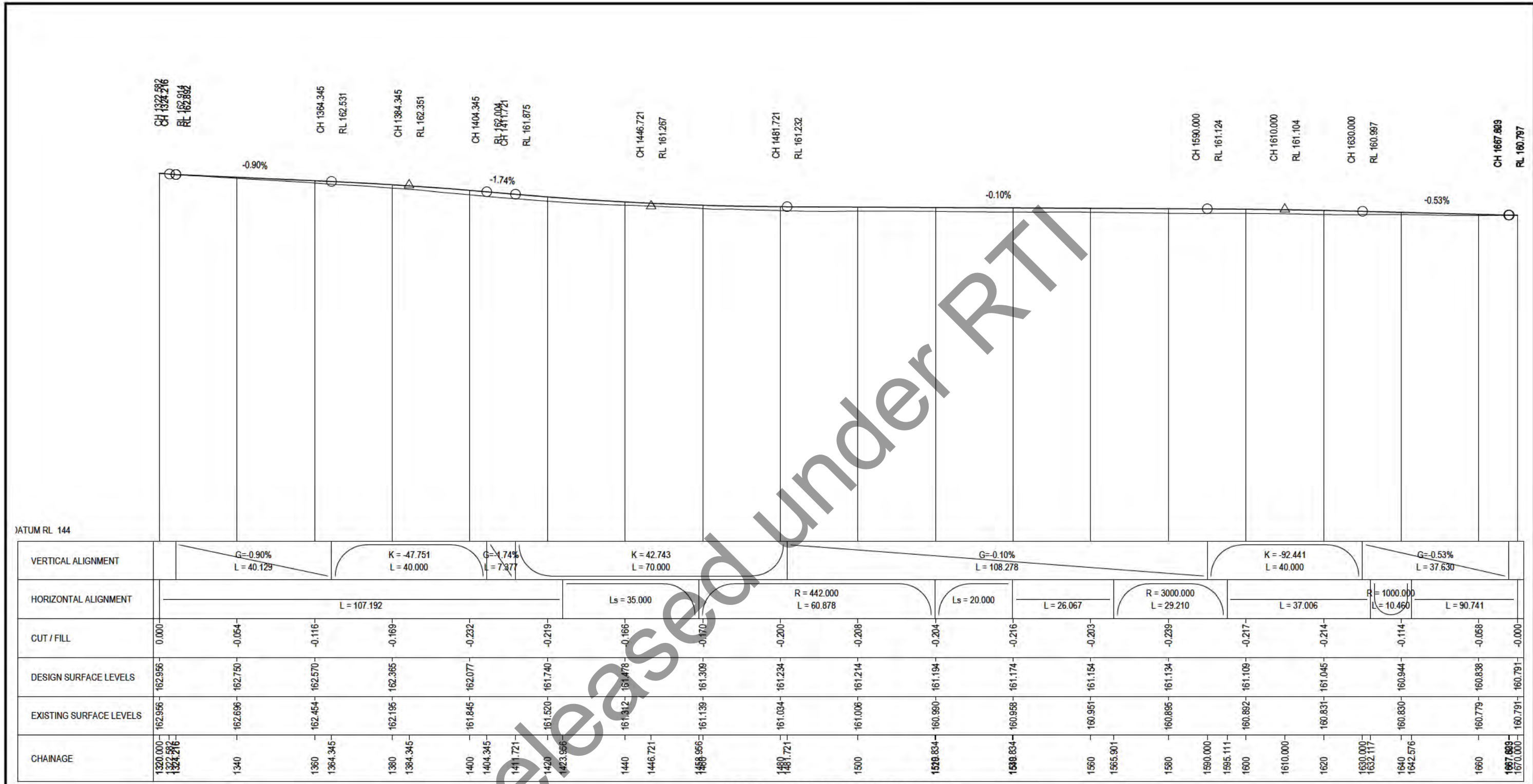
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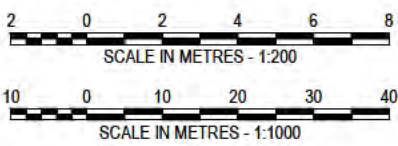
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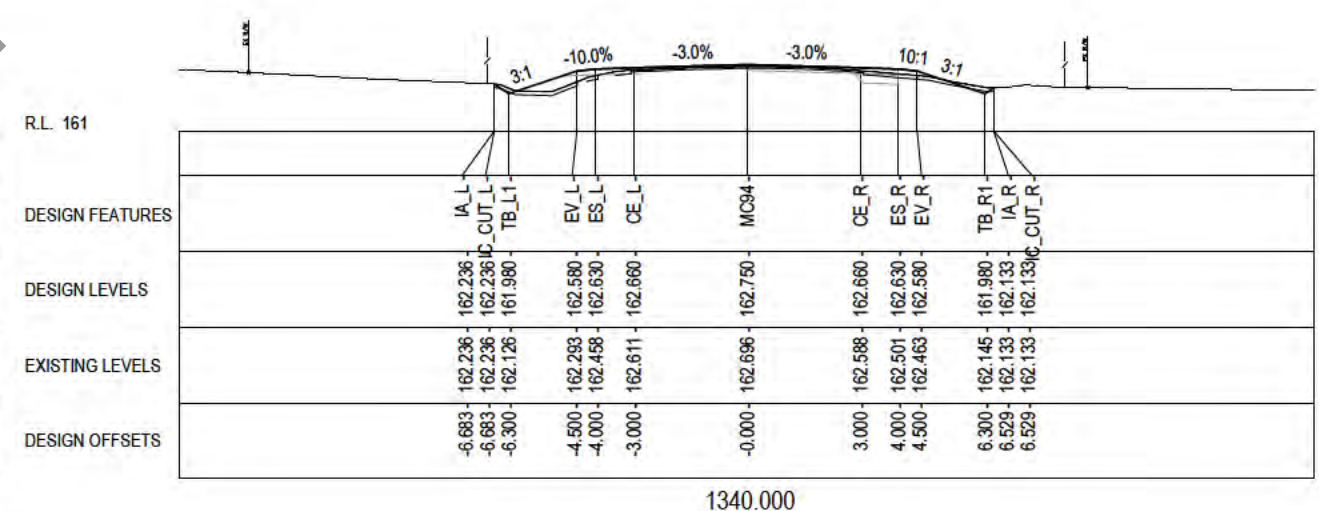
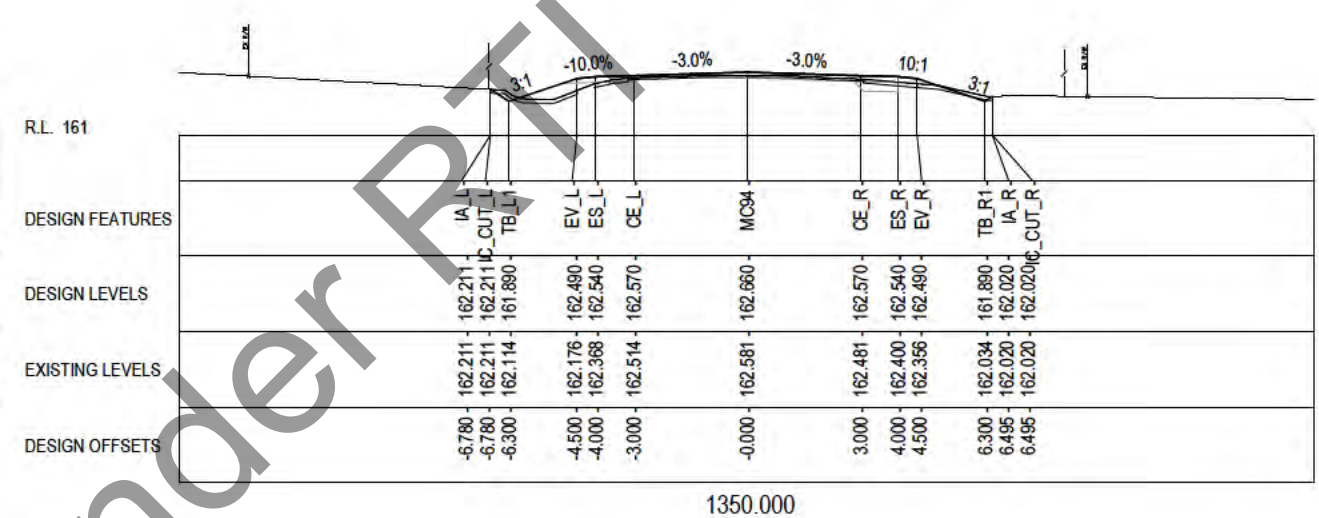
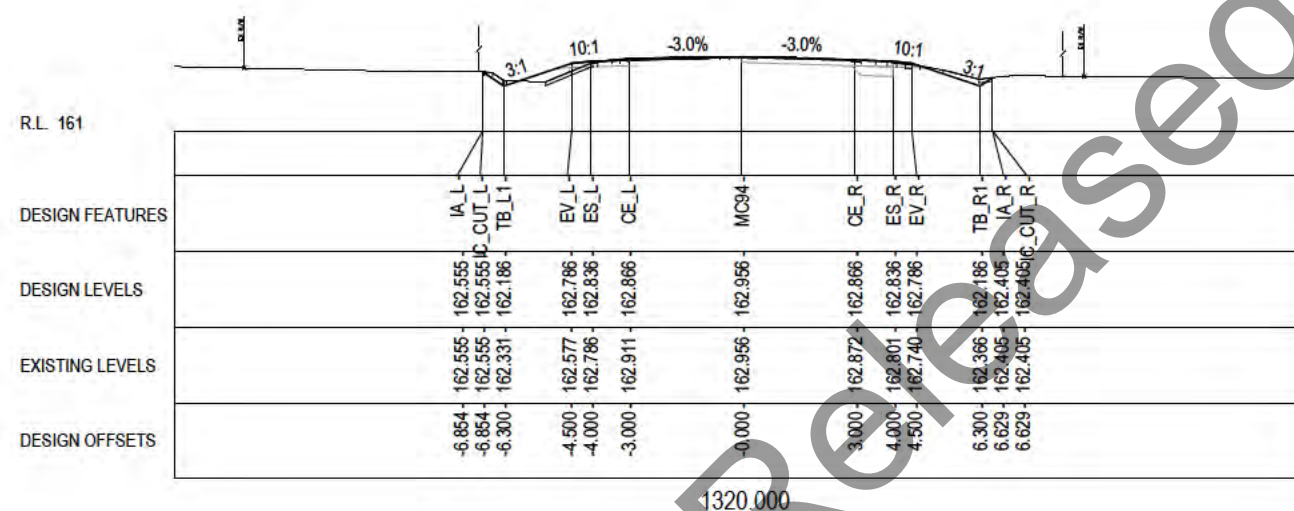
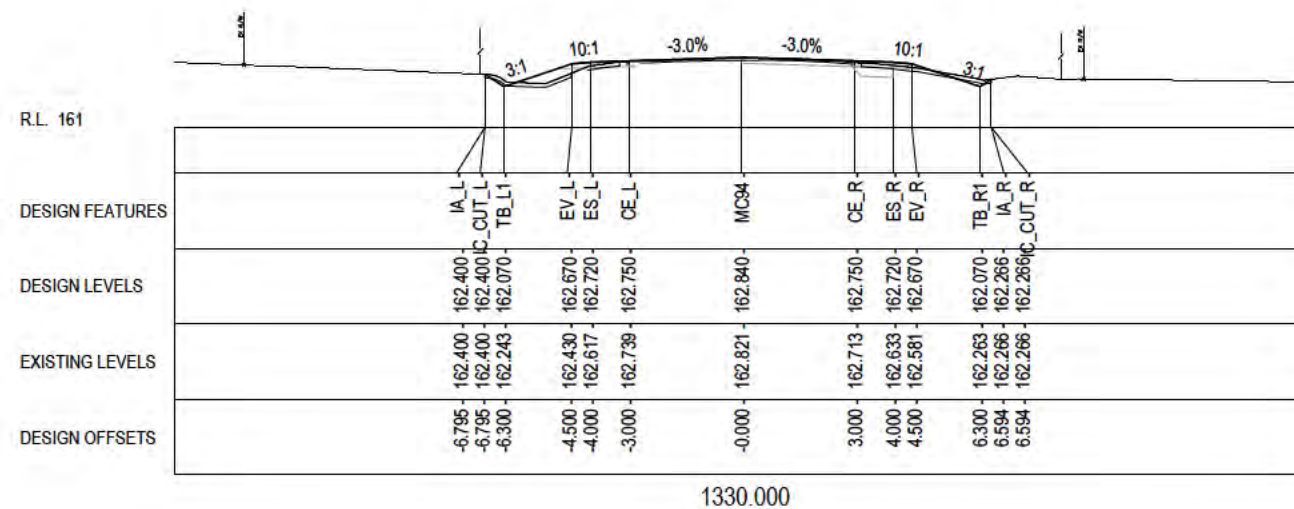
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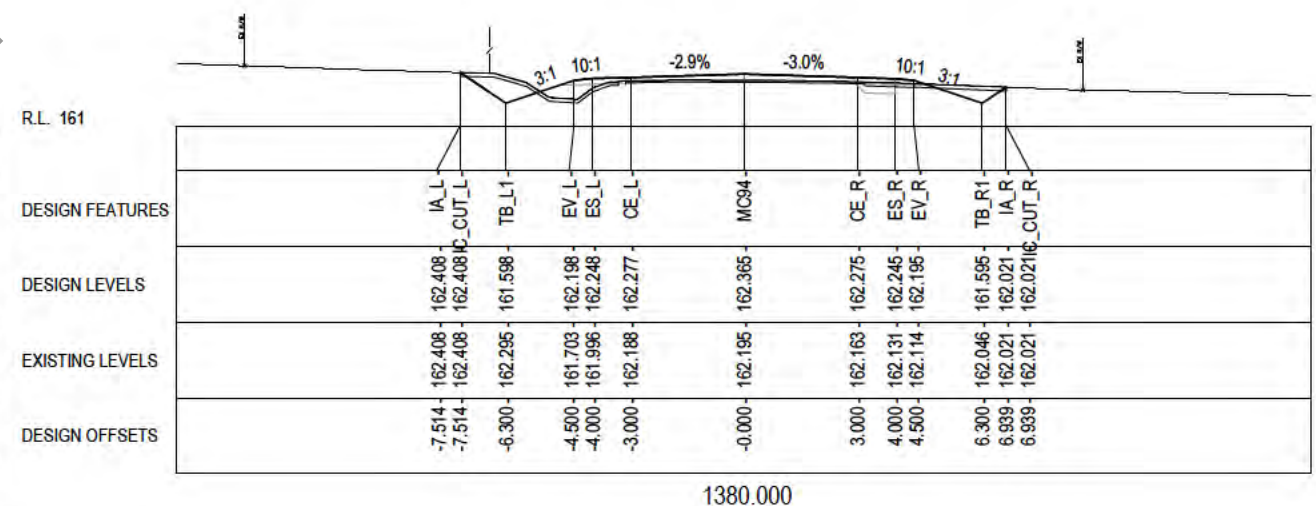
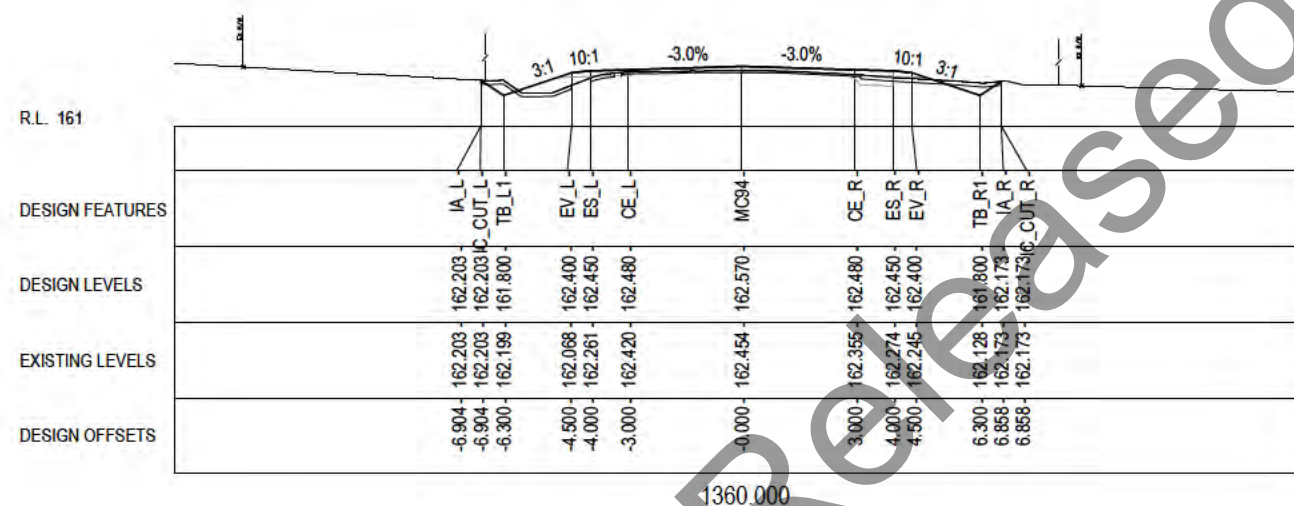
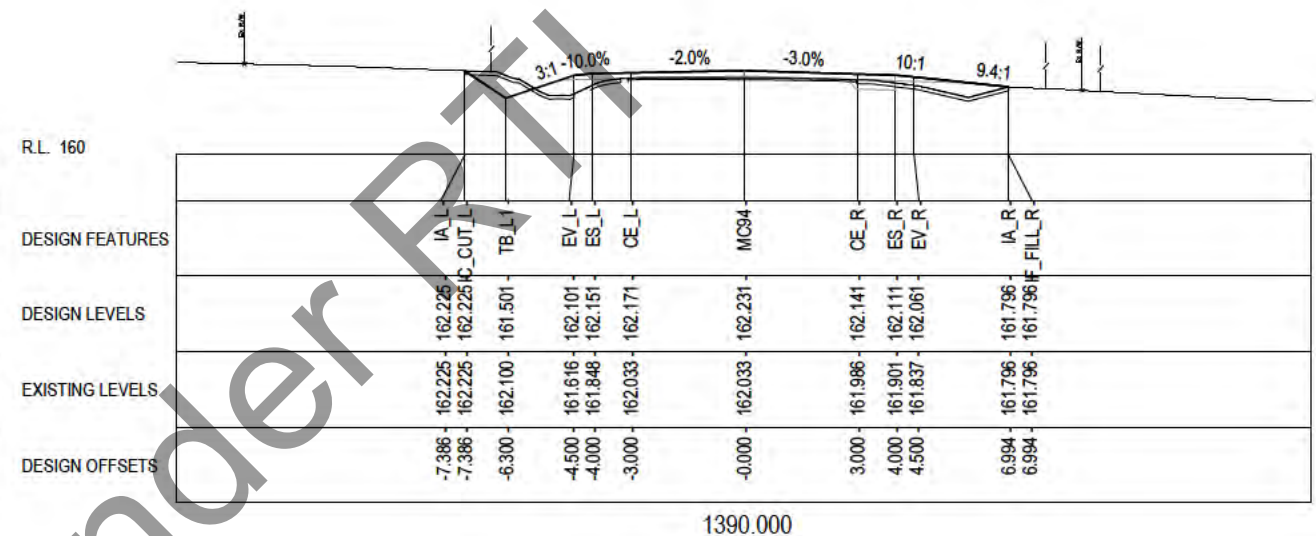
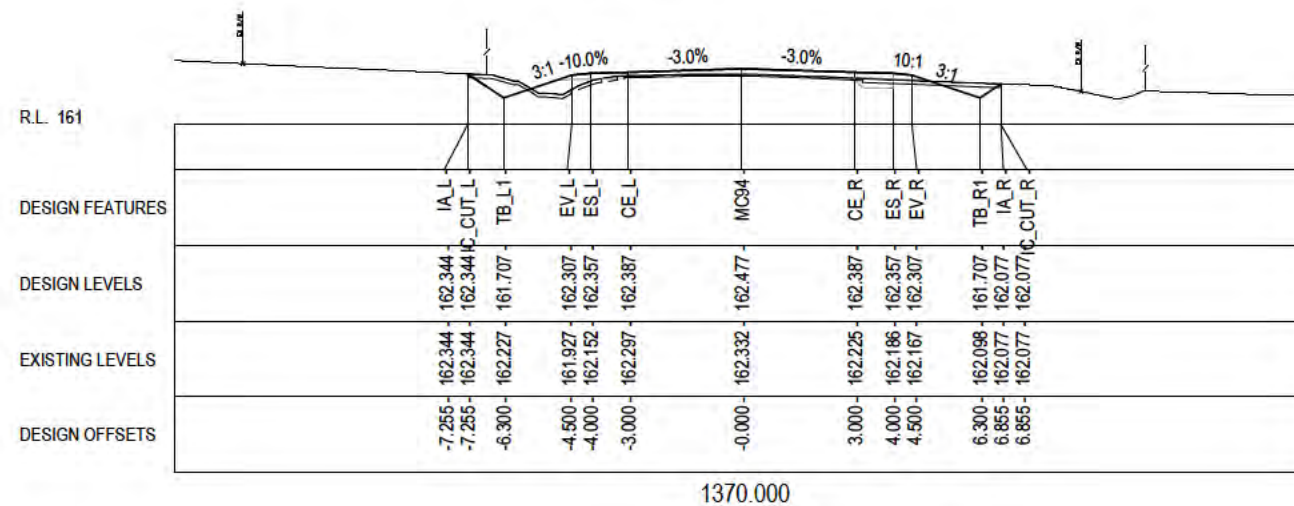


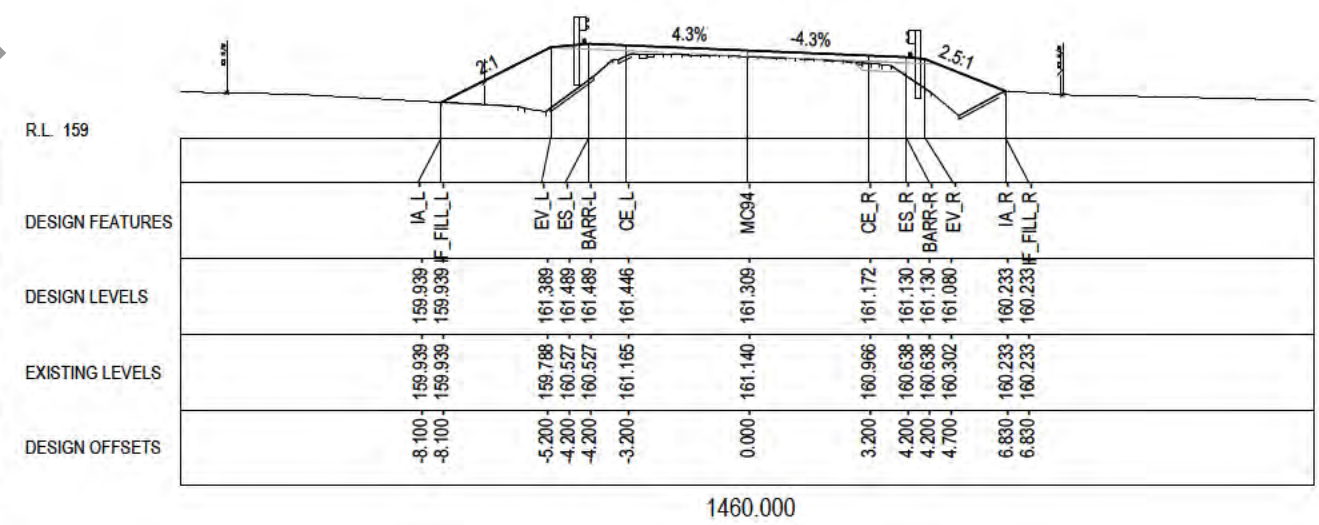
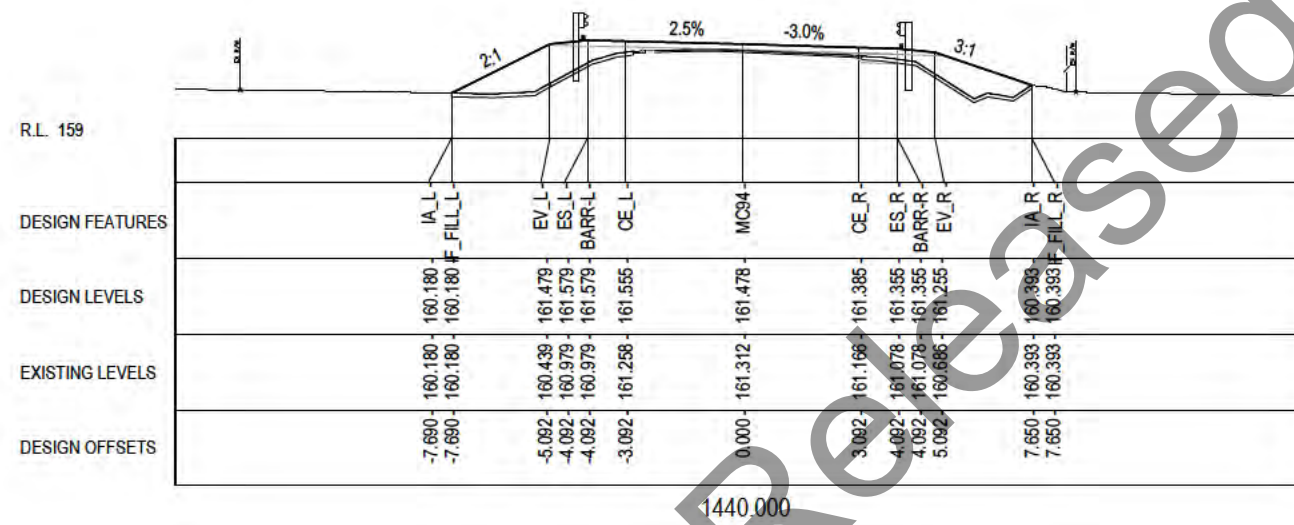
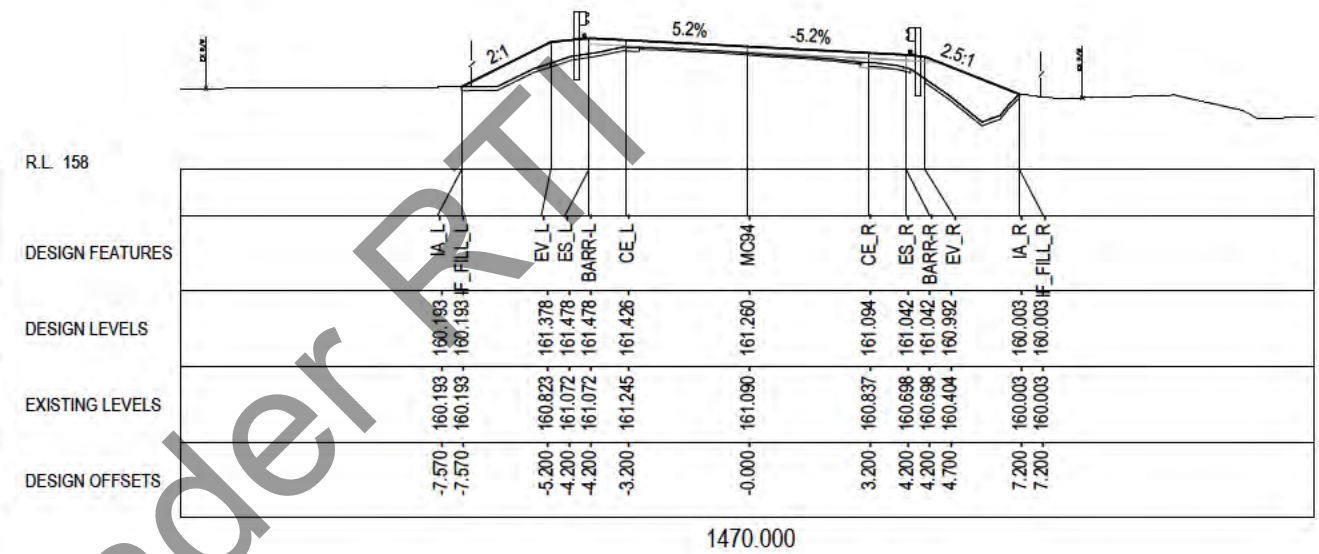
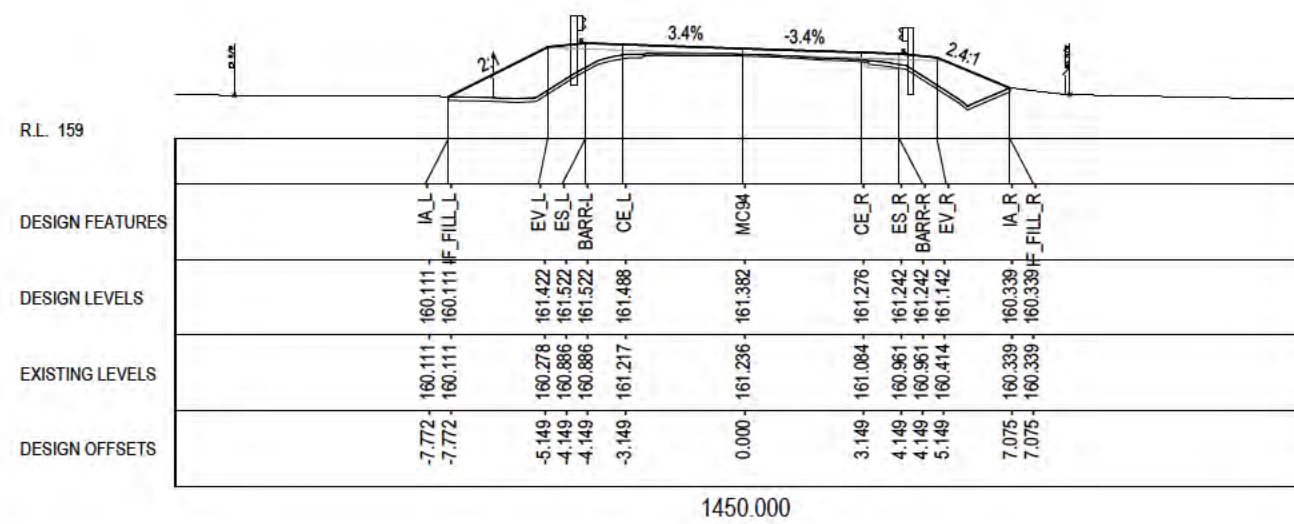
LONGITUDINAL SECTION MC94



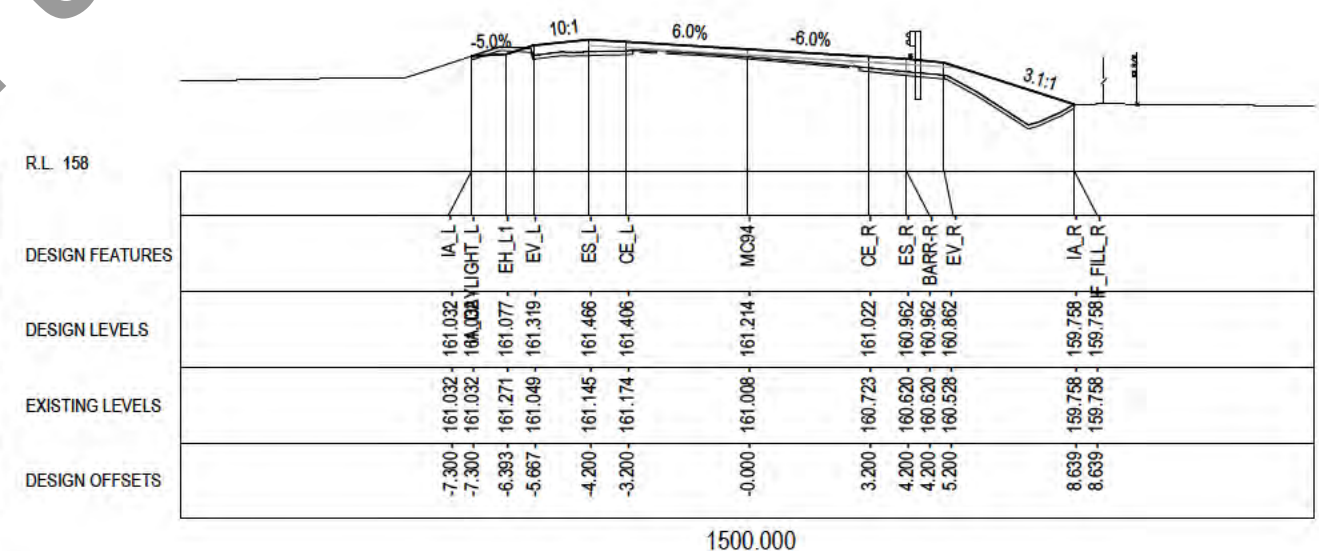
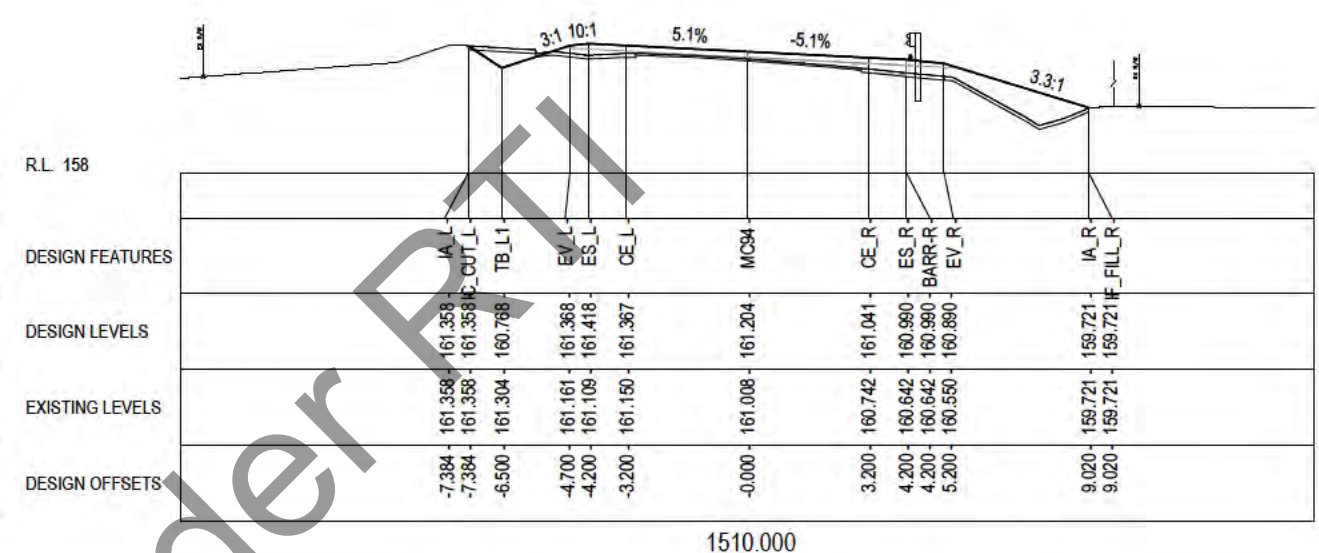
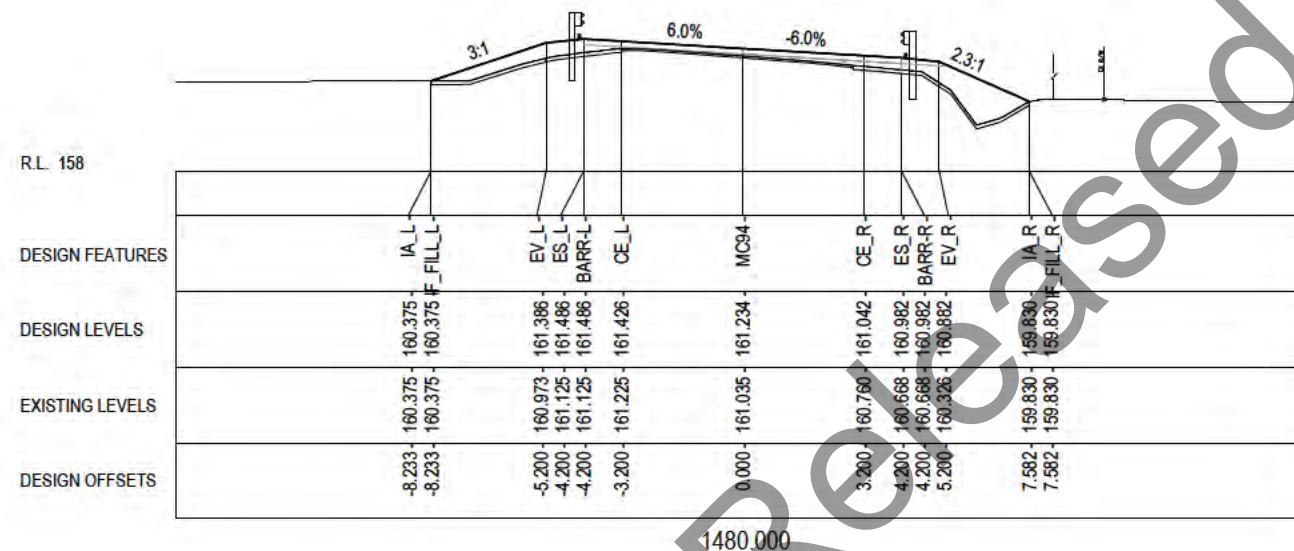
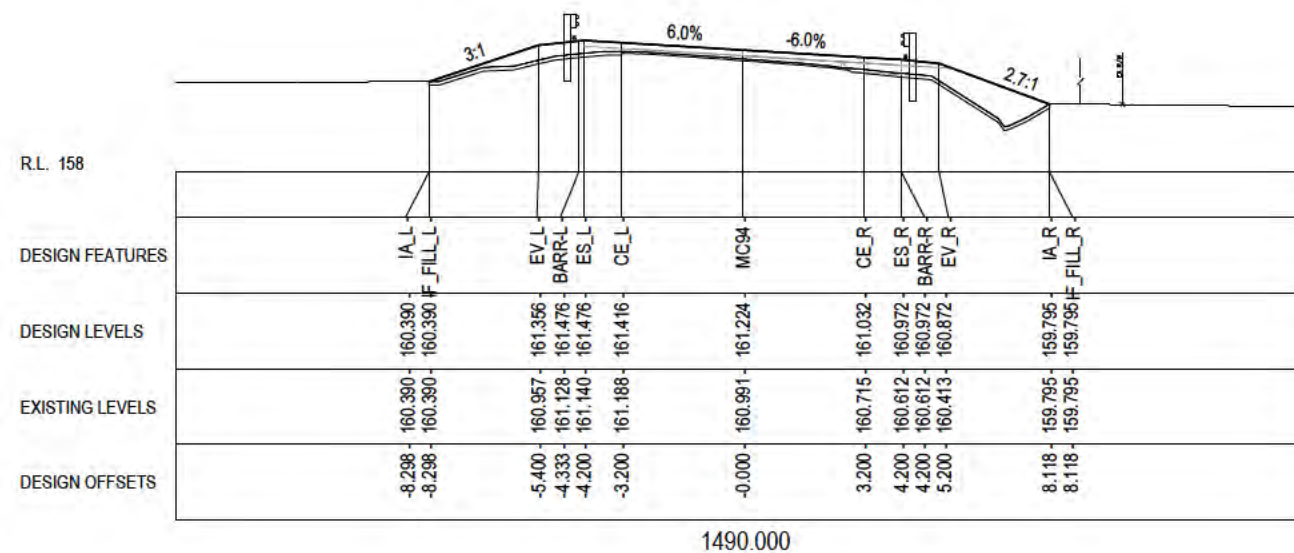
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No.		Amendment Description		REVIEWED LJB				A1701.003			
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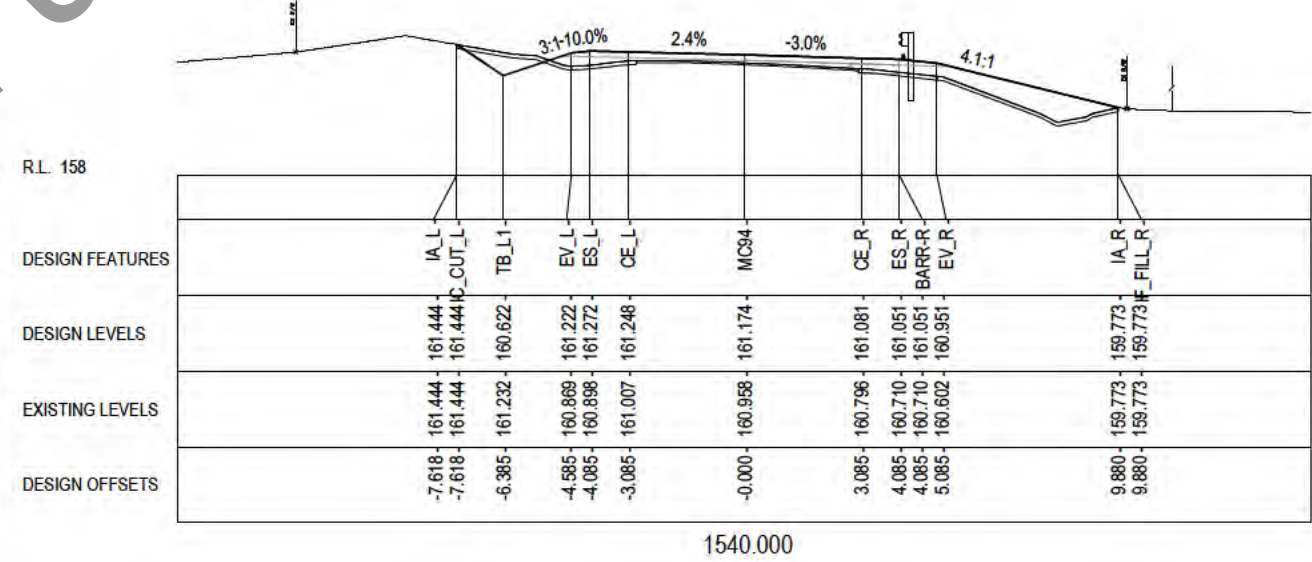
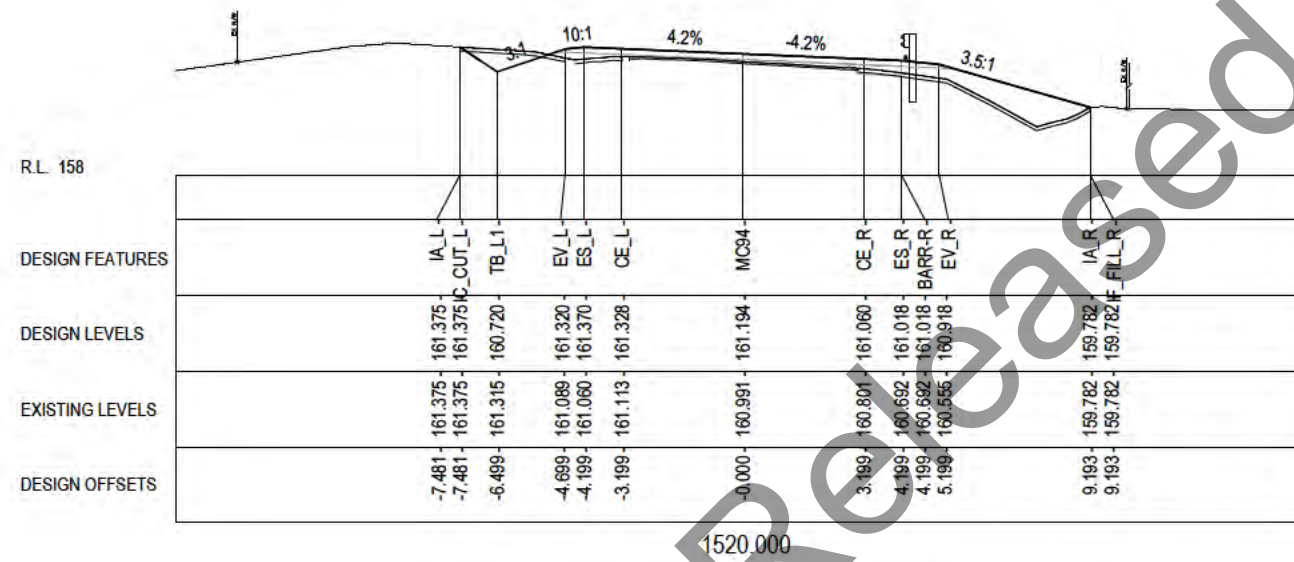
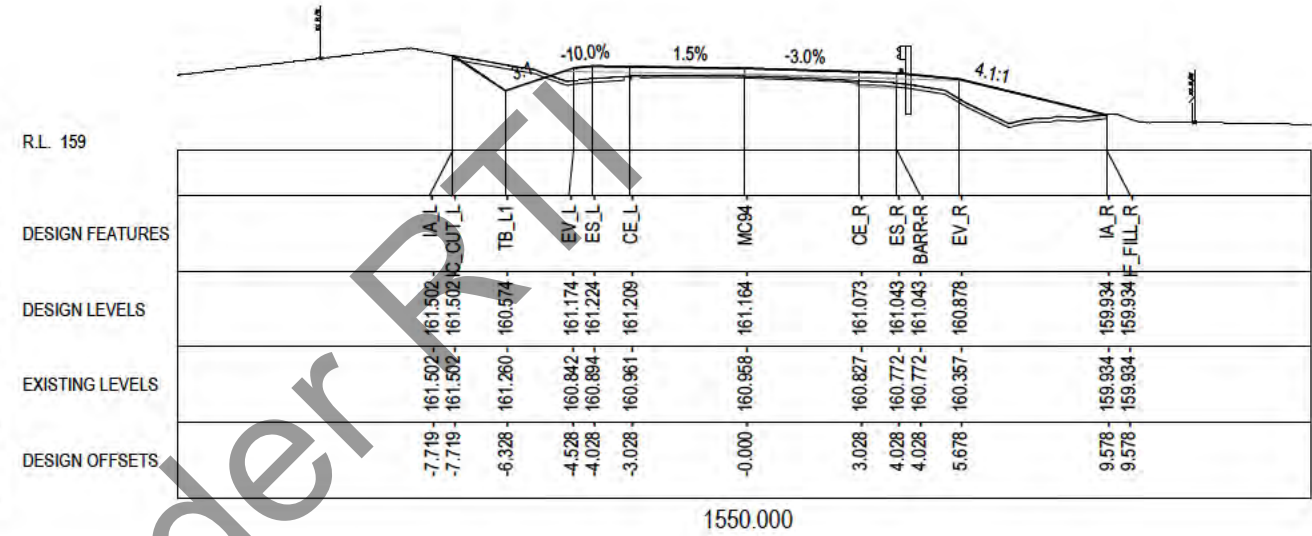
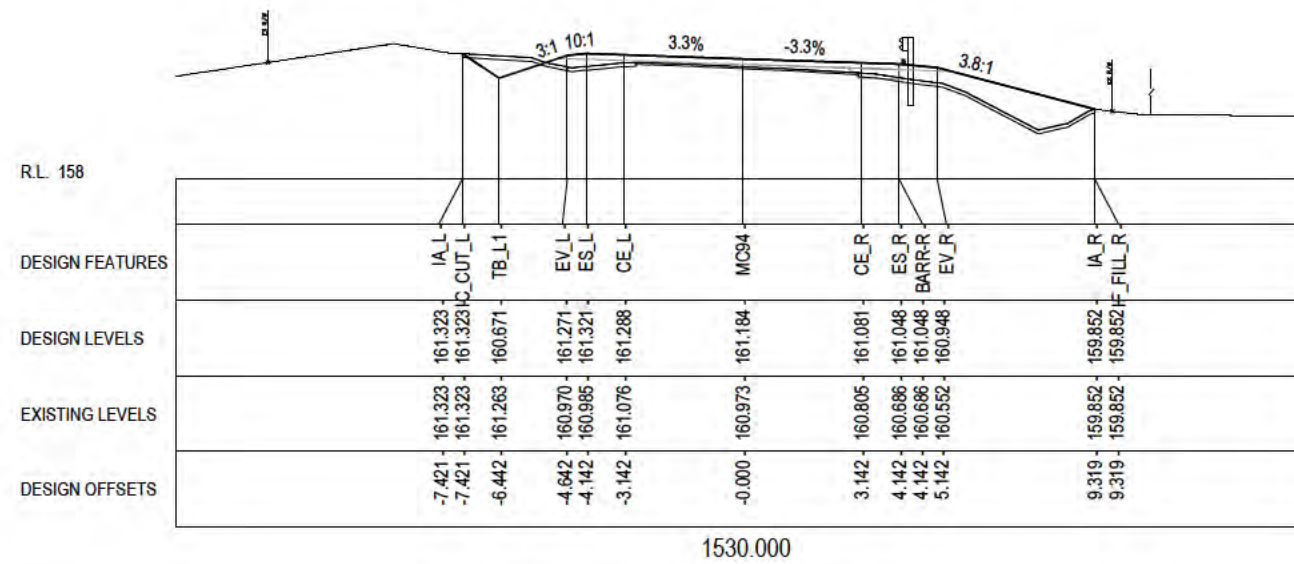


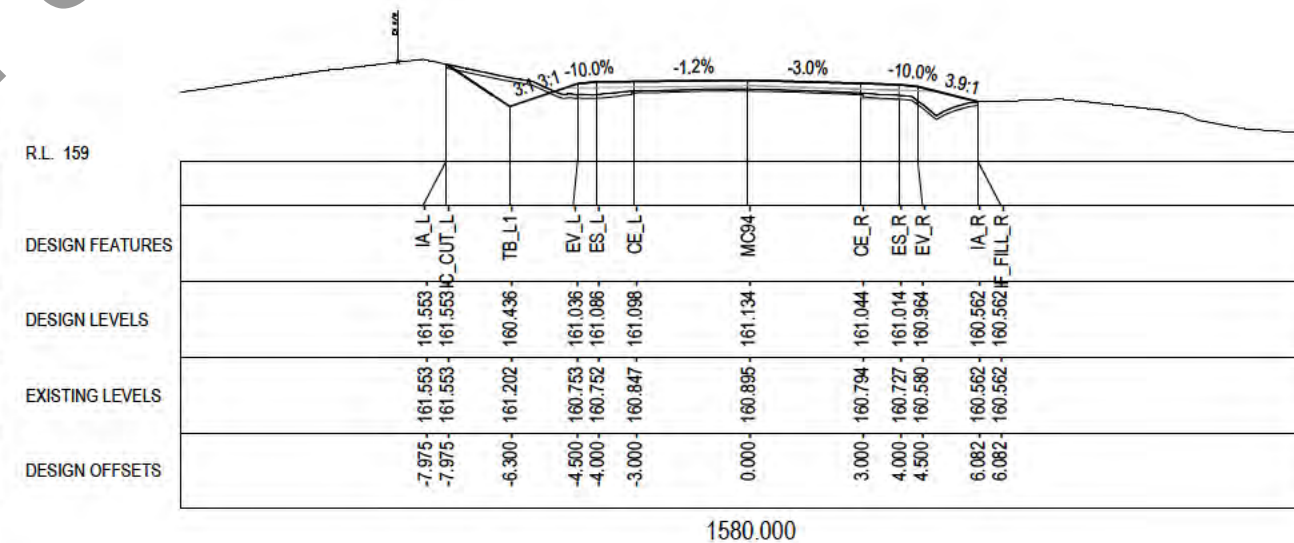
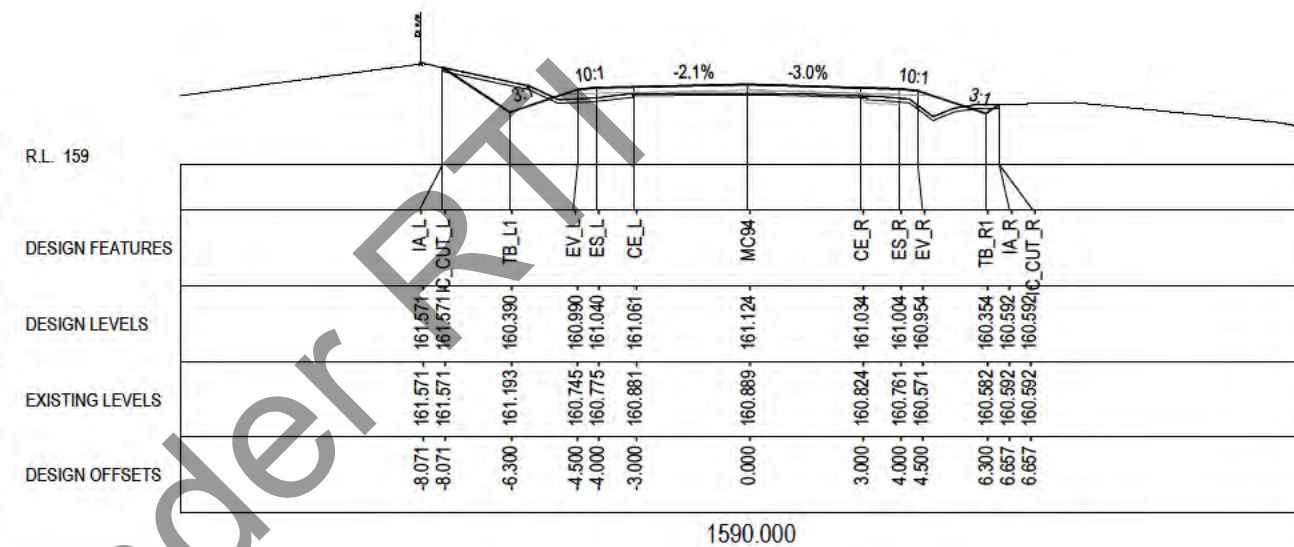
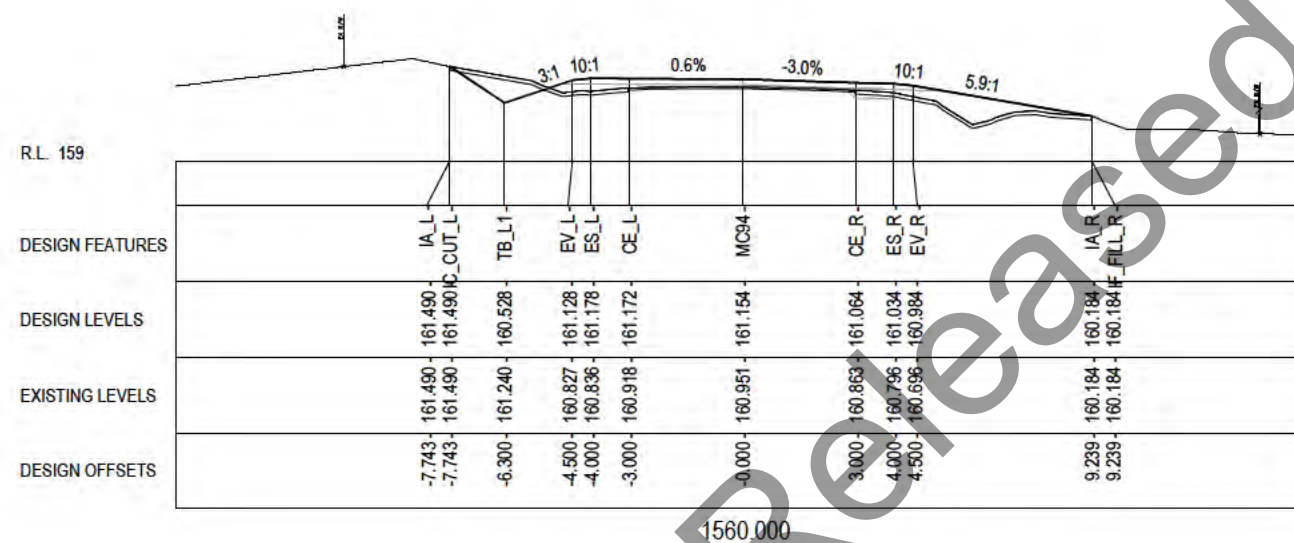
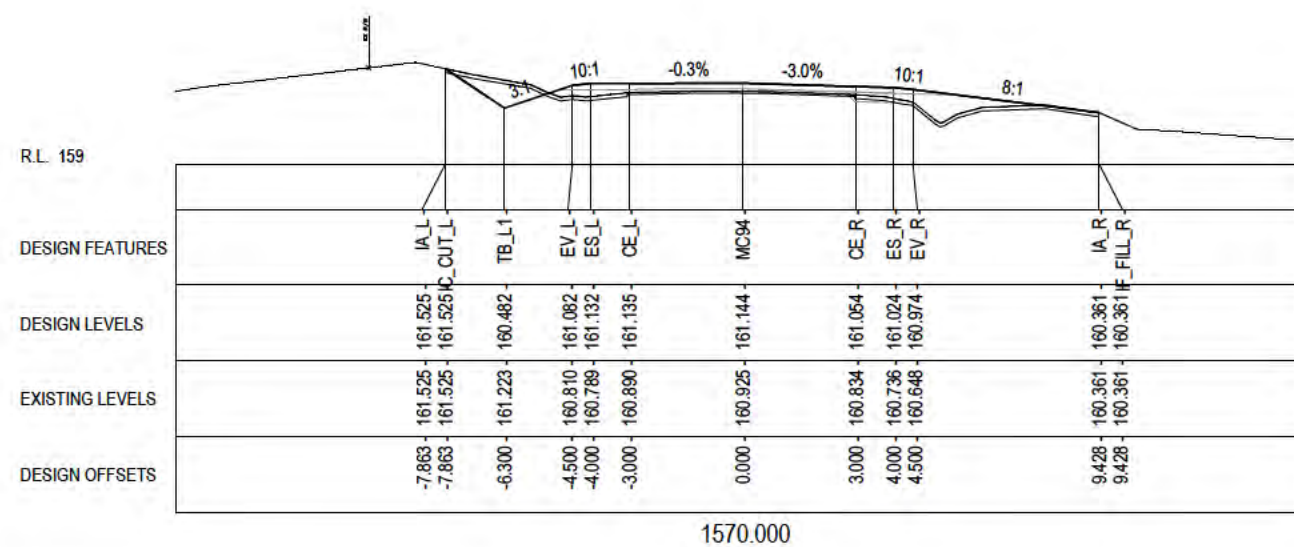


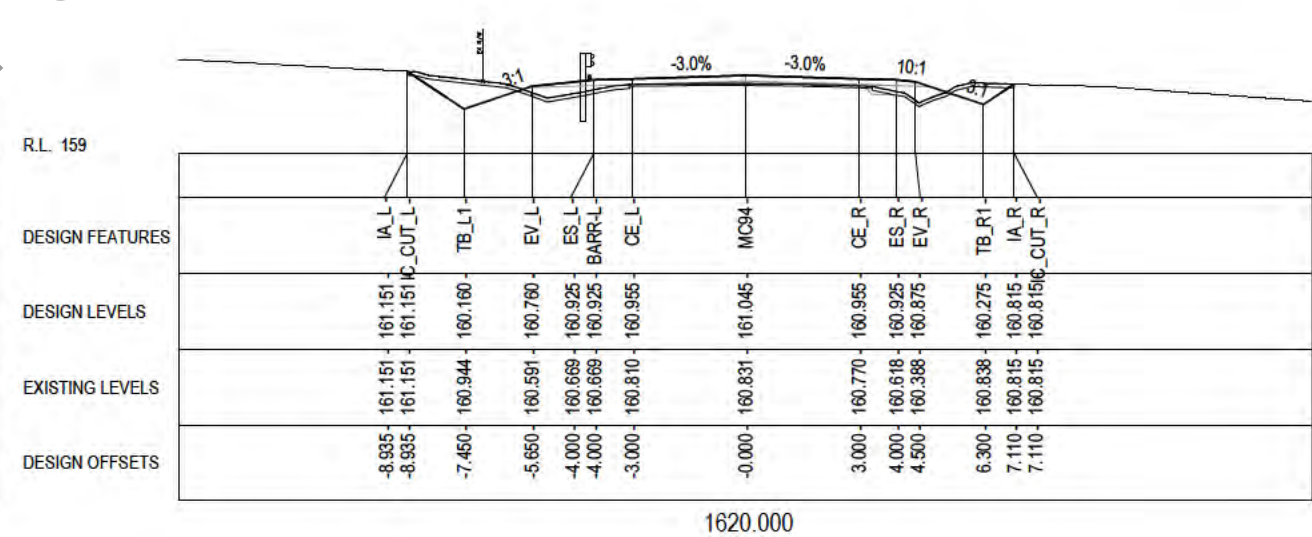
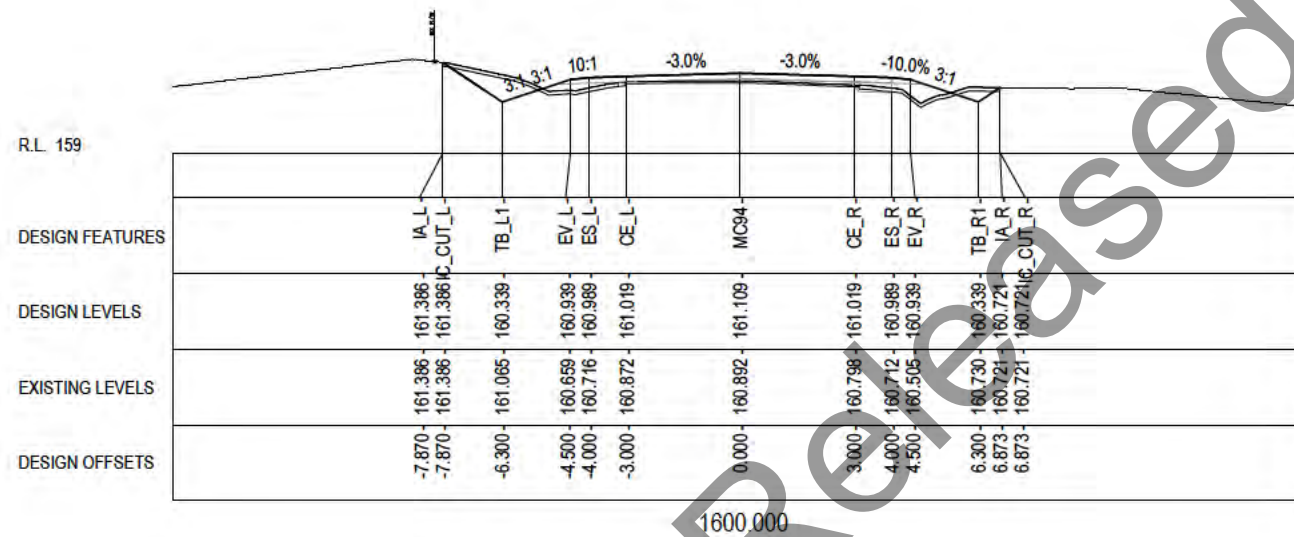
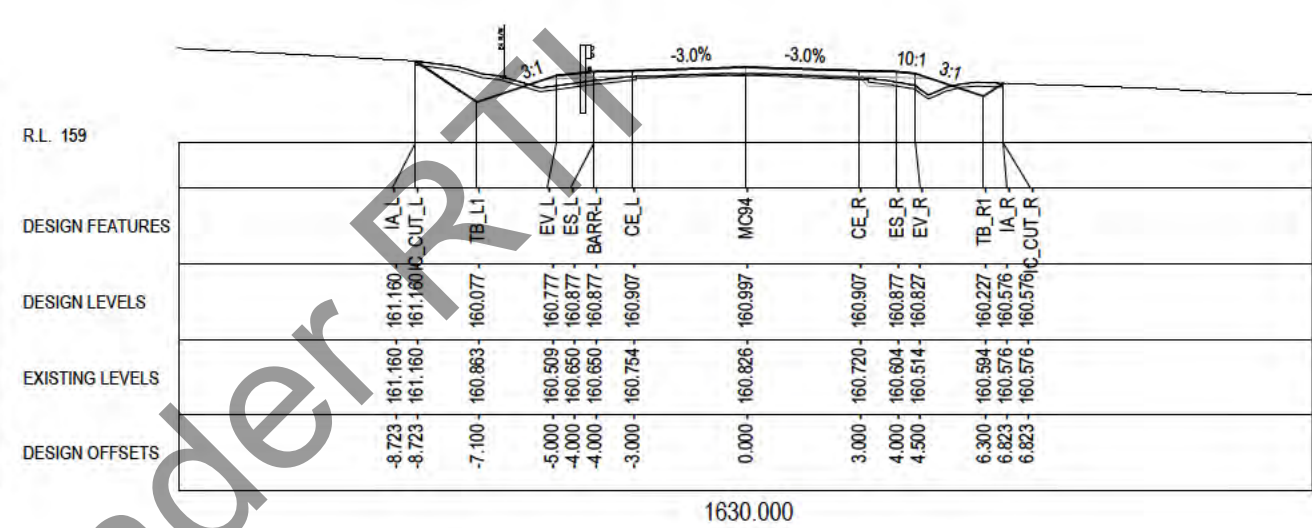
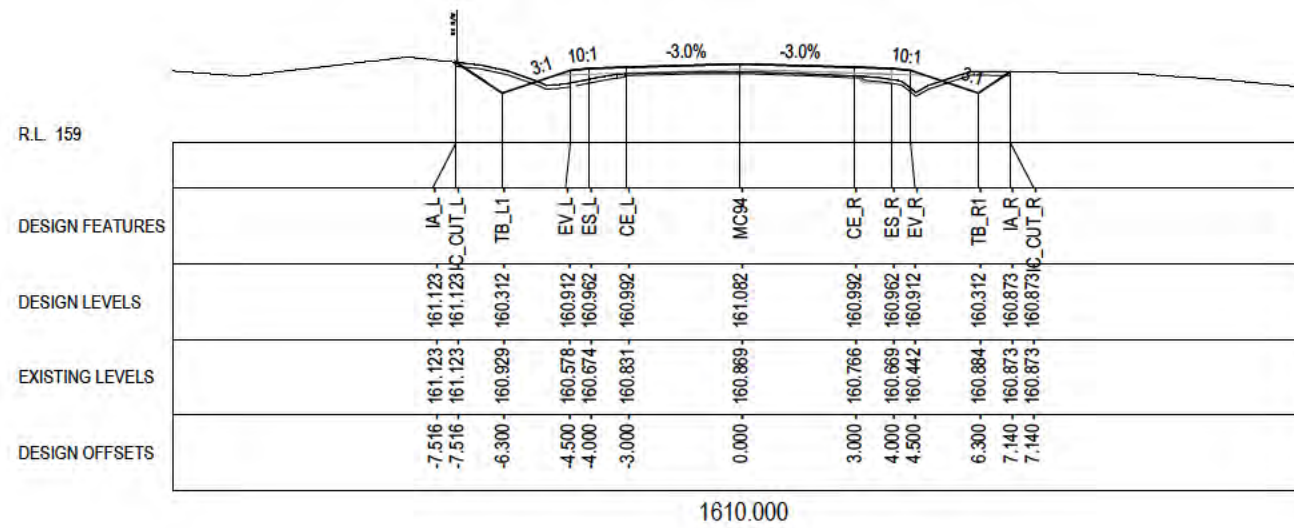


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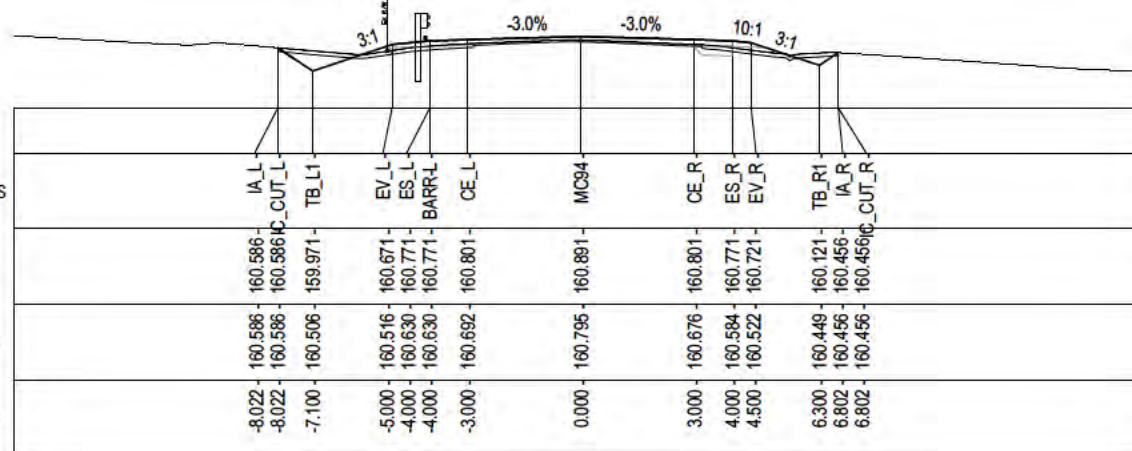
R.L. 159

DESIGN FEATURES

DESIGN LEVELS

EXISTING LEVELS

DESIGN OFFSETS



1650.000

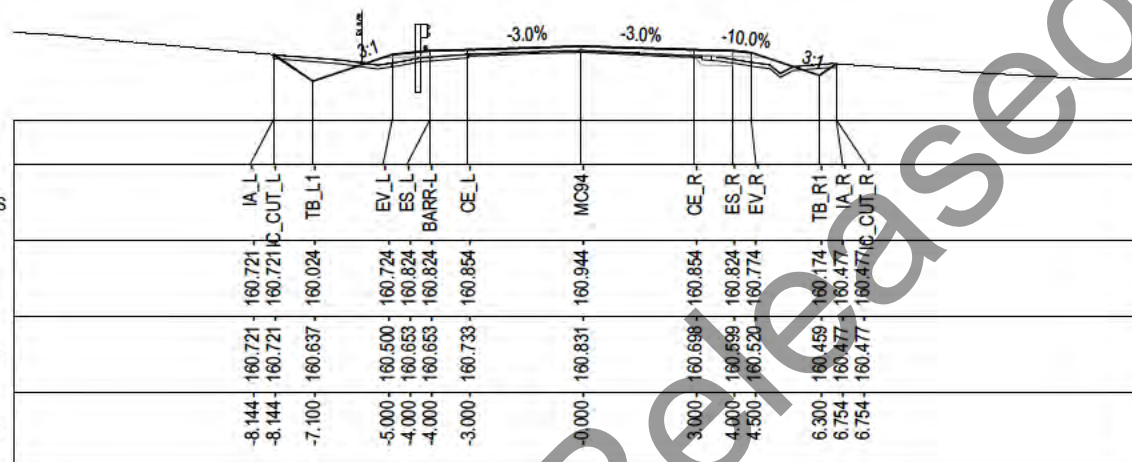
R.L. 159

DESIGN FEATURES

DESIGN LEVELS

EXISTING LEVELS

DESIGN OFFSETS



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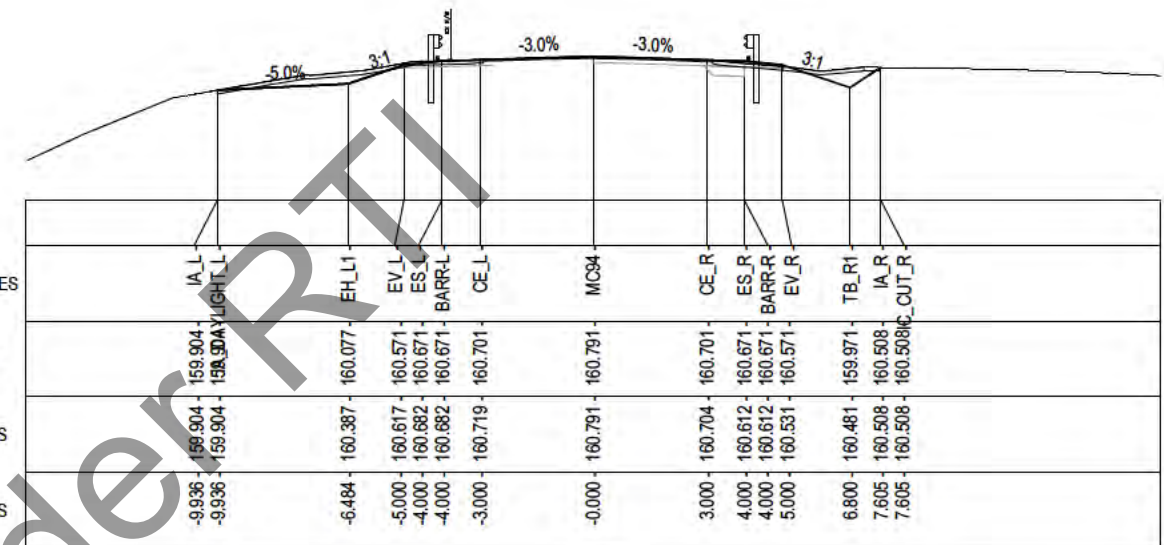
R.L. 157

DESIGN FEATURES

DESIGN LEVELS

EXISTING LEVELS

DESIGN OFFSETS



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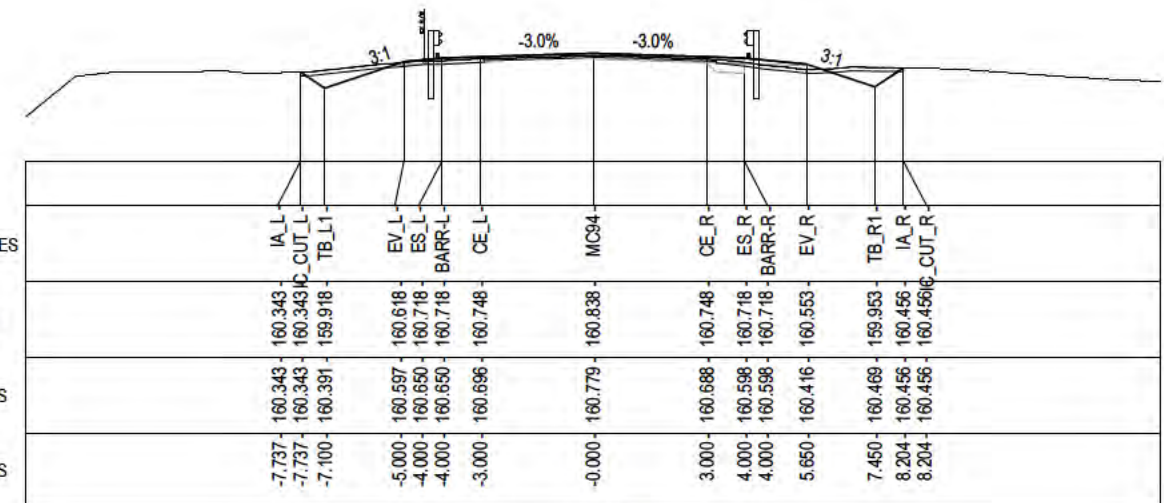
R.L. 158

DESIGN FEATURES

DESIGN LEVELS

EXISTING LEVELS

DESIGN OFFSETS



1660.000

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Co-ordinate System:	MGA20 / Z55
Height Datum:	AHD-TAS

DESIGNED	LJA
REVIEWED	LJB

Department of State Growth BIRRALEE MAIN ROAD (A1701) NORTH OF WESTBURY INDUSTRIAL ESTATE (08/1.30-08/1.70) FLOOD REPAIRS CROSS SECTIONS MC94 - SHEET 9 OF 9	
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CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
-	S-P 22.1715-00-CIV-DRG-1309	14-Nov-22, 6:11 PM	1309
REGISTRATION NUMBER			REVISION A
A1701.003			

SECTION 160 - PRELIMINARIES – CONSTRUCTION (TASMANIA)

This section covers the Project Specific, Standard Specification amendments and administration items relating to construction contracts and should be read in conjunction with Sections 176, 177 and 199.

160.00 GENERAL

160.01 CONDITIONS OF CONTRACT

General- To AS 2124 General Conditions of Contract as amended.

160.02 COMMENCEMENT OF WORK

HP The Contractor shall not commence work on site within 10 days of submission of the following documents to the Superintendent:

- (a) Evidence of insurance conforming to the requirements of the General Conditions of Contract
- (b) Work Health and Safety Management Plan
- (c) Environmental Management Plan
- (d) Traffic Management Strategy and Traffic Management Plans
- ~~(e) Stakeholder and Community Engagement Plan (SCEP)~~
- (f) A list of 2 emergency contacts
- ~~(g) Construction Program~~
- (h) Information required under Clause 160.91 Work Health and Safety Incident Reporting

160.03 CONSTRUCTION PROGRAM AND CASH FLOW

Construction Program

A Construction Program is:

- ~~• Not required, refer to Clause 160.72(b)(i)~~
- Is required in the format stated in Clause 160.72(b)(ii)
- ~~• Is required in the format stated in Clause 160.72(b)(iii)~~

Cash Flow

The Contractor shall at minimum monthly intervals with the Construction Program also provide the Cash Flow forecast for the remainder of the contract to the Superintendent.

160.04 ADJUSTMENT OF CONTRACT SUM

The following applies to the Adjustment of the Contract Sum in accordance with Standard Specification Section 199:

- Cost Adjustment for Materials- ## Not Applicable;
- Cost Adjustment for Bitumen for Supply and Placement of Asphalt- Applicable;
- Cost
- Adjustment for Bitumen for Supply and Placement of Priming, Primersealing and Sealing- Applicable.

Cost Adjustment is to be calculated in accordance with the requirements of Section 199.

160.05 CODES OF PRACTICE

The Standard Sections reference VicRoads Codes of Practice. The Department of State Growth has prepared a Tasmanian Supplement to the VicRoads Codes of Practice for Pavements and Surfacing that reflects Tasmanian conditions and required jurisdictional practices. These amendments mainly relate to design matters. The Contractor must inform itself of the requirements of these referenced Codes of Practice and the Tasmanian Supplement applicable to the Works.

160.06 EXTENT OF WORK AND LIMITS OF WORK

The Works involve repair of the road affected by significant rainfall. The works are located on Birralelee Road (A1701) between Link 08, Ch 1320 to Ch 1694.

Birralelee Main Road is classified as a Category 2 Road under the State Road Hierarchy.

Scope of Works:

The Contract involves the following works:

- Traffic management
- Environmental management
- Quality management
- Landowner liaison
- Clearing and grubbing
- Earthworks
- Pavement construction
- Bituminous spray sealing
- Drainage and stormwater works
- Installation of traffic facilities including roadside barrier fencing; pavement markings including installation of raised reflective pavement markers;
- Topsoiling, hydromulching and other landscaping
- Fencing
- Tie-in works matching into existing and adjacent construction works
- Construction of property accesses
- Temporary works as necessary

Limit of Contract:

Further to the Limits of Contract shown on the Drawings, the Limits of Contract includes those portions of the abutting properties sufficient for structures to be surveyed in accordance with Clause 160.82.

160.07 TRAFFIC MANAGEMENT

Standards and Guidance

The Contractor shall manage traffic in accordance with:

- The Tasmanian *Traffic Act*;
- The Tasmanian Traffic (Road Rules) Regulations;
- Traffic Control for Works on Roads, Tasmanian Guide 2020.
- AS 1742 Manual of Uniform Traffic Control Devices in particular Part 3 Traffic control for works in Roads 2019.
- As at 1 January 2021, the 2019 Austroads Guide to Temporary Traffic Management (Part 1 – 10) will be formally adopted in Tasmania. It is the Contractors responsibility to conduct Traffic Management in accordance with this Guide at this time.

Delays to traffic

The stopping of traffic is only allowed for “long term” worksites and bituminous surfacing operations where works cannot occur under traffic only.

Where there has been no advance warning, the stoppage time shall not exceed 8 minutes

and where advance warning has been provided, the stoppage time shall not exceed 15 minutes.

The stoppage time shall be measured from the time at which the first vehicle is stationary and in total, the delay to traffic including queueing time and travel time through the worksite must not exceed twice the stoppage time.

Traffic management General

This is not a “High Profile Site” with the traffic volume on this section of highway approximately 739 vehicles per day (AADT – two way) with 27.6 heavy vehicles (2021).

Traffic Management Plans shall as a minimum allow for the following:

- One lane of traffic no less than 3.0m in width during working hours;
- Two lanes of traffic outside of working hours;
- ~~The length of activity interfering with traffic not greater than 500m;~~
- No section of road trafficked under gravel greater than 1km in length with gravel sections separated by no less than a 1km of sealed road;
- Ensure access to local connecting roads is maintained at all times

Roadwork Speed Limit Spray Sealing Works

Sprayed sealing or other activity requiring works to occur without temporary safety barrier, thus requiring a lower speed limit, is restricted to a maximum length of 2km.

The speed limits following spray sealing must be maintained as detailed in the schedule below.

Period following Sealing	Speed Limit	Requirements
First 24 Hours	40 km/h	The surface shall be suction swept prior to opening to traffic. The depth of loose aggregate build-up along the edge of traffic lane shall not exceed 20mm.
From 24 to 48 Hours	60 km/h	Ensure adequate rolling to retain aggregate and regular sweeping to remove loose aggregate.
From 48 Hours	80 km/h	Complete line marking and increase speed limit to 80 km/h.

Temporary Pavement Markings

All temporary pavement marking shall be the same colour over the entire length of the site.

All redundant line marking and Raised Reflective Pavement Markers (RRPMs) within the limits of work shall be removed or covered so that they are not visible to road users under all conditions, including dark and wet conditions.

There is to be no evidence of temporary pavement markings on the final surfacing.

Over Size-Over Mass Vehicles

The Contractor must recognise the ongoing and legitimate need to reasonably accommodate Over Size-Over Mass vehicles travelling through the site. The Contractor will provide the Superintendent with contact details for the site supervisor with the authority to reach agreements with operators and facilitate travel through the site where appropriate.

Information about agreements are to be provided to the Superintendent prior to the time of travel. The contact details will be made available by the Department to Over Size-Over Mass

operators.

Prior to travel through any State road work site, where the vehicle inclusive of load exceeds 3.0 metres in width, the Over Size-Over Mass vehicle operator is required to make direct contact with the Construction Contractor to agree travel arrangements and conditions and to ensure that the vehicle, together with its load, can safely negotiate the site without unreasonably disrupting other road users or causing damage.

Where a Transport Escort is involved in the activity, written confirmation of the agreement between the operator and the site supervisor must be made available and agreed with the Transport Escort at least ten (10) days prior to travel.

Roadworks Roundup

The Principal maintains a Roadworks Roundup published on the Transport Services website every Monday morning that advises the community of scheduled works taking place on the State road network over a two-week period – see https://www.transport.tas.gov.au/road/closures_delays

The Contractor must submit to the Principal details of new works or amendments to existing works that require traffic management by COB Wednesday of every week (submission day) such that the works can be included in the Roadworks Roundup that will be published the following Monday.

The Contractor shall not commence work where the traffic management details have not been submitted to the Principal and where scheduled to commence prior to 12 days following the submission day.

160.08 STATUTORY REQUIREMENTS

The Principal before entering into the Contract, has given the notices, paid the fees, and obtained permits, approvals and other authorisations stated in the Prior Applications and Approvals Schedule below.

Prior Applications and Approvals Schedule

Prior notices given and applications made	Fees Paid	Permits, approvals and authorisations received
# # Nil		

The Contractor shall comply with the conditions stated in the Authority Condition Schedule below.

Authority Conditions Schedule

Authority	Document	Conditions
# # Nil		

160.09 ENVIRONMENTAL MANAGEMENT**160.09A Threatened Flora Exclusion Zones**

The locations outlined in the Exclusion Zone Schedule contain Threatened flora species and shall be protected in accordance with Standard Specification Clause 176.1(c).

Threatened Flora Schedule

Location	Details of Threatened Flora
## Nil	

160.09B Weed Management

Weeds have been recorded in the vicinity of the proposed works. A weed survey of the project footprint identified weed locations as outlined below.

Weed Schedule

Location	Details of Weeds
## As shown on the Drawings	Gorse

Weeds shall be treated in accordance with the requirements of Clause 160.42B.

160.09C Aboriginal and European Heritage

Details of Aboriginal and European Heritage sites recorded in the vicinity of the proposed works are shown in the schedule below.

Heritage Site Schedule

Location	Description	Action Required
## Nil		

160.10 PROJECT INFORMATION SIGNS

Project Information Signs ## are not required

~~Where required the Project Information Signs are to be placed at the following locations:~~

~~Project Information Sign Schedule~~

Serial	Sign Type	Drawing No.	Number Required	Location

~~The Contractor shall supply, install, maintain and later remove project information signs as specified below:~~

~~(a) Supply~~

~~— The Contractor shall supply information signs in accordance with the requirements of Section 860 Manufacture of Road Signs. Information signs shall be regarded as a Category B Sign for the purposes of Section 860. The letter size and style of the sign legend shall comply with the requirements of the Drawings specified in the Project Information Sign Schedule in Clause 160.10.~~

~~(b) Mounting and Location~~

~~— The Contractor shall mount the information signs on timber frangible posts in accordance with Section 714 Erection of Signs.~~

~~(c) Removal~~

~~— The project information signs shall remain in place for the defect liability period and be removed within 7 days of the issuing of Final Certificate.~~

160.11 VARIABLE MESSAGE BOARDS

Variable Message Boards ## are required

The Contractor shall provide #2 No Variable Message Boards.

The Variable Message Boards are to be located as follows: ##

- 250 m north of the Selbourne Road junction
- 500 m north of the Site

Variable Message Boards are to be installed in accordance with the requirements of the Stakeholder and Community Engagement Plan produced in accordance with Specification Section 177.

160.12 SERVICES

160.12A EXISTING SERVICES

The Works are in close proximity to the following known services: ##

Services Schedule

Service Owner	Details and Location	Agreement Details
Telstra	Min. 11 m from existing fence line	Nil

Before commencement of the Works the Contractor shall convene a meeting with the relevant Service Owner to determine the programming necessary for coordination of the work of the Contractor with that of the Service Owner.

160.12B PROVING SERVICES

Prior to commencing works, the Contractor shall make appropriate enquiries to confirm the location of all services and service authority assets.

HP Underground services shall be proved by clearly marking the location of the service on the ground and physical exposure of appropriate locations in accordance with service authority requirements.

The Contractor shall construct the works so as not to interfere with or impact on any service infrastructure. However if in proving the services it becomes apparent that the Works cannot proceed as designed, the Contractor shall immediately advise the Superintendent.

160.12C PRIVATE SERVICE CONNECTIONS

Where Private Service Connections be impacted by the works, the Contractor shall be responsible for liaising with the service connection owner in regard to any interruption or service re-instatement.

160.13 UNSUITABLE MATERIALS

For all unsuitable materials replaced the Contractor shall record the quantity.

160.14 SPRAY BITUMINIOUS SURFACING TREATMENTS**160.14A SPRAYED BITUMINIOUS SURFACING SELECTION**

The following is added to Clause 408.11(a).

When selecting binder types in accordance with the requirements of Part 4K- Selection and Design of Sprayed Seals the temperature environment used for selection is deemed to be as follows:

- Cool for initial seals in accordance with Table 4.6
- Low for other seals in accordance with table 4.7

160.14B CONTRACTOR SELECTION OF SPRAYED BITUMINIOUS TREATMENT

The Contractor is to select all Spray Bituminous surfacing treatment for the works including both the initial and secondary treatments.

Further to section 408 the treatment shall be selected in accordance Austroads Guide to

pavement Technology Part 4K- Selection and Design of Sprayed Seals.

The secondary treatment is to be applied over the area shown on the drawings or specified elsewhere in the Contract and incorporate a minimum 10mm size aggregate. The secondary treatment shall use aggregates with a minimum PSV stated in the Bituminous Surfacing Requirements Schedule.

Any initial treatment which is intended to be trafficked for more than 6 months shall use aggregates with a minimum PSV of 48.

160.15 POLISHED STONE VALUE (PSV) REQUIREMENTS

The following minimum PSV values apply for the following bituminous surfacing products and locations:

Bituminous Surfacing Requirements Schedule

Bituminous Surfacing	Location	PSV Value
Spray seal	All locations	48

The following is added to Clause 407.03(g).

Notwithstanding the other requirements of this clause where a minimum Polished Stone Value (PSV) is specified for asphalt wearing courses all individual components of the Coarse Aggregate shall meet the minimum specified Polished Stone Value.

160.16 RIDE QUALITY FOR PAVEMENTS CONSTRUCTED UNDER TRAFFIC

Where pavements have been constructed under traffic the Superintendent shall add an additional 0.2 IRI to the Maximum Mean Lane Roughness value in Table 180.092- Standard of Ride Quality for the part of the works that is constructed under traffic.

For the purpose of applying this clause "pavements constructed under traffic" are deemed to be in areas where traffic is applied to the pavement during all stages of the construction and cannot be diverted during construction. This does not apply to works where the construction is substantially undertaken clear of traffic and the Contractor chooses to divert traffic onto the new pavement for short periods of time.

160.17 POTENTIAL HOLLOW BEARING TREES

Potential hollow bearing trees are noted on the Drawings. The Contractor shall engage a suitably qualified Ecologist prior to commencement of the Works to ensure any hollows are not in use. If any hollows are occupied, the Superintendent shall be notified immediately.

Trees shall be protected where practicable.

160.18 DISPOSAL OF LANDSLIDE MATERIAL OR UNSUITABLE MATERIAL

All unsuitable material and landslide material is to be removed from site.

Under no circumstances shall unsuitable or landslide material be used for fill batters at the edge of the road.

160.40 AMENDMENTS TO STANDARD SECTIONS

160.41 NOT USED

160.42 NOT USED

160.43 SITE EXCAVATION

Clause 204.07(b) is amended by deleting the last paragraph commencing with "Where material" and the sub clauses (i), (ii) and (iii).

160.44 NOTE USED

160.45 NOT USED

160.46 NOT USED

160.47 BRIDGE NUMBER, LOAD CAPACITY AND DATE MARKS

The following is added to Section 610.

The Contractor shall provide the necessary stencils for placement on the face of formwork to show clearly on the finished concrete, the bridge number, the design loading and year of construction. The stencil lettering shall be 75mm high, 5mm deep and be clearly legible.

The depth of the lettering shall not reduce the minimum cover to the reinforcement below that specified. The lettering shall be mirror checked prior to placement of concrete.

For bridges, culverts, pedestrian and stock underpasses, the asset number; design loading and the year of construction shall be marked into the inside face of the left hand kerb at Abutment A (Abutment A is the abutment listed on the lower link map reference chainage) and on the diagonal kerb face at the other abutment unless otherwise approved by the Superintendent.

160.48 FENCING (W-BEAM SAFETY BARRIER)

The following is added to Clause 708.07(b)

New W-beam safety barrier shall be supplied as 4-metre lengths.

The following is added to Clause 708.07(c)

All road safety barrier terminals shall be redirective non-gating terminals and shall be installed in accordance with the manufacturer's recommendations.

160.49 PERMEABILITY TESTING

The following is added to Section 812.

Permeability testing shall be carried out for Class 1 and Class 4 crushed rock. The test results shall be supplied to the Superintendent along with other pavement test results. Notwithstanding the specification, material that does not meet the permeability requirements can still be used as Class 1 and class 4 material.

160.50 ADMINISTRATION

160.51 QUALITY MANAGEMENT SYSTEMS STANDARDS

The Works under this Contract shall be undertaken in accordance with a Quality Management System that meets the requirements of relevant AS/NZS ISO Standards. The Standards specified in this clause form part of this Specification. Copies are not included in this document.

These Standards include:

AS/NZS ISO 9001	Quality Management Systems - Requirements
AS/NZS ISO 14001	Environmental Management Systems - Specification with guidance for use
AS/NZS 4801	OHS – Management Systems

The Quality Systems shall demonstrate compliance with all relevant Acts and Regulations and the requirements of the Contract Specification and as a minimum must include:

- a Quality Plan which addresses the requirements in this Specification and demonstrates compliance with relevant AS/NZS ISO Standards;
- Templates for Inspection and Test Plans and templates for all Lot Records required by Inspection and Test Plans;
- Commissioning Plans required by the Contract;
- Construction Procedures required by relevant specifications;
- Procedures and systems for management of design and construction records.

The contractor must exercise quality control of the Works, including works undertaken by sub-contractors, and must establish systems and procedures that will provide the information specified in this section to provide assurance of that control.

160.52 QUALITY TERMS AND DEFINITIONS

Quality terms and definitions shall be as defined by the Australian Standard AS/NZS ISO 9000 Quality management systems – Fundamentals and vocabulary.

Other definition and terms shall be as follows:

‘asset component’ means a component part of a road, bridge or other asset forming part of the works.

‘accredited laboratory’ or **‘accredited method’** means -

- for all inspections (other than for material which is supplied from outside Australia) a laboratory or method (as the case requires) accredited by the National Association of Testing Authorities (NATA) for those inspections or inspection methods;
- for all material which is supplied from outside Australia, a laboratory or method accredited by NATA for those inspections or inspection methods or by another laboratory or method accredited by a recognised certifying body approved in the Contract or, if the Contract does not provide such approval, then by a recognised certifying body approved by the Superintendent.

‘Independent Reviewer’ means the independent reviewer appointed by the Superintendent to undertake audits of the Quality Management System.

‘inspection’ means and incorporates measuring, testing or otherwise examining goods and services or works or materials (including, where appropriate, raw materials, components and intermediate assemblies) for determining conformity with the specified requirements.

‘lot’ (or ‘work lot’) means a discrete element of work which has been constructed in a continuous operation under essentially uniform conditions and is essentially homogeneous with respect to material properties, general appearance and construction process. A lot must only comprise a single layer, batch or area of like work and unless otherwise specified the extent of each lot must not exceed one day’s production.

‘lot Diagram’ means a diagram showing the location and bounds of each Work Lot within an Asset Component comprising multiple lots that are not identified separately

on the design drawings or in the Work Breakdown Structure. (e.g. an earthworks embankment, a section of pavement, or a soil nail wall).

'lot Records' means all test and inspection records and certificates required by the applicable Inspection and Test Plan.

'lot Register' means a register or system that enables identification of each lot within the Work Breakdown Structure and the completion and conformance status of each lot.

'measuring' includes checking for line, level, dimensional accuracy and quantity.

'on-line access' means accessible via the internet as an electronic record.

'test' includes taking of samples and specimens and preparation of materials and work for testing.

'Hold Point' means those points beyond which the stated activity must not proceed without the Quality Assurance Verifier's approval to proceed. The Quality Assurance Verifier's approval to proceed beyond the Hold Point does not relieve the Contractor of responsibility for satisfactory execution or performance of the work.

Hold Points are identified in the specification by the letters HP in the left margin and by bold text print or arise from a nonconformity.

Text which is bold typed but not identified by the letters HP in the left margin does not reflect a Hold Point. Such text reflects specified obligations on the Contractor requiring the review or approval of the Quality Assurance Verifier. They are bold typed for ease of identification.

'Quality Assurance Verifier' – a person engaged by a contractor to undertake specified quality assurance functions as identified in this specification, including release of Hold Points.

'Review Point' – Verification check points identified in the Inspection and Test Plans requiring verification of requirements and collection of records.

'Witness Point' - Verification check points identified in the Inspection and Test Plans that are not designated as Hold Points but require inspection by the Superintendent.

'work package' – one or more lots of the same work kind covered by a single Inspection and Test Plan.

160.53 QUALITY REPRESENTATIVES

The Contractor shall appoint persons to the following Quality Representative positions:

- a Quality Management Representative to manage and administer the Contractor's Quality Management System in accordance with the appropriate Australian Standard(s) and the Contractor's Quality Plan; and,
- ~~one or more Quality Assurance Verifiers to manage and administer the releasing of Hold Points, the closure of Work Packages and the closure of Notices of non-conformance relating to Work Lots. The Quality Assurance Verifiers, must:~~
 - ~~— be accountable to the Contractor, but required to act as independent verifiers of the quality assurance process;~~
 - ~~— not be involved in the day to day construction or supervision of construction;~~
 - ~~— have appropriate qualifications, experience and competence to undertake their role proficiently;~~
 - ~~— have a thorough understanding of relevant design documentation and specification requirements;~~

— be the only persons authorised to release Hold Points and close Work Packages within their designated scope of authority;

The Quality Assurance Verifier is to meet the following requirements:

- For road construction works a minimum of 5 years' experience in design or construction of roadworks in particular earthworks, pavements and sealing.
- For bridge construction works an Engineer eligible for membership of Engineers Australia and a minimum of 8 years' experience in design or construction of bridges.
- For bridge rehabilitation works in addition to the requirements for bridge construction above where the works require preparation or repairs to concrete or steel structures experience in major structure rehabilitation is also required.
- Experience in the implementation of quality assurance systems.

The following Hold and Witness Points are to remain with the Superintendent all other Hold Points are to be undertaken by the Quality Assurance Verifier:

Specification Clause	Description
160.02	Commencement of Work
160.42C	Tasmanian Devil Dens
160.85A	Wording on VMB's
204.09	Approval of Borrow Excavation in Road Reserve
205.04	Use of Oversize Rock
408.13	Treatment of Seal Defects
430.10	Treatment of Defects
431.12	Treatment of Defects
605.12	Treatment of Defective Piles
610.07	Approval of Concrete Mix Design
610.24	Repairs of Cracked Concrete
611.05	Use of Reinforcing Steel not covered by Third Party (ACRS) certification
630.07	Use of Weld Repaired Steel
680.05	Use of Alternative Anchor
680.10	Rectification proposals for failed anchors
683.14	Rectification proposals for failed anchors
688.09	Approval of Repair Procedure
689.08	Deviation from manufactures repair specifications
701.25	Approval of Repair procedures
721.A12	Approval of removal of unsuitable pavement marking
765.03 & 04	Changes to approved design details
801.03	Use of non-compliant materials with proven record
	Any other Hold Point or Specification requirement not listed above which requires approval or rectification of non-compliant product

Any proposed changes to the nominated Quality Representatives must be notified promptly to the Principal and the Superintendent. Within 10 working days of receipt of the notice of nomination of Quality Representatives, the Superintendent shall issue advice of acceptance or rejection of the nominations.

160.54 QUALITY PLANS AND PROCEDURES

(a) General

The Contractor shall submit for consideration by the Superintendent a controlled copy of the quality plans and procedures relating to each stage of the work under the Contract not less than 10 business days prior to the commencement of that stage of the work unless specified otherwise.

The quality plans and procedures required under the Contract shall cover but not be

limited to the following management systems:

- Quality
- Traffic
- Environmental
- Work Health and Safety
- Incident Management and Reporting.

The Quality Plan must:

- Nominate and define the responsibility, authority and reporting function of personnel primarily responsible for ensuring the effectiveness of the Quality Management System, including:
 - a Quality Management Representative who has responsibility for ensuring that the requirements of the Quality Plan are implemented and maintained, and for authorising closure of Notices of non-conformance that are not related to Work Lots; and
 - one or more Quality Assurance Verifiers responsible for releasing Hold Points, authorising closure of Work Packages and authorising closure of Notices of non-conformance relating to Work Lots,
- Designate for each Quality Assurance Verifier the scope of construction activities that they are authorised to verify; and,
- Provide for all Quality Representatives sufficient information to demonstrate relevant qualifications, experience and required competencies to exercise the designated scope of their authority.

A quality plan or procedure shall be changed if it:

- (i) does not adequately address the specification requirements;
- (ii) is causing non-conformity;
- (iii) has to be changed because of an audit; or
- (iv) no longer represents current or appropriate practice.

The Contractor shall immediately notify the Superintendent of any change to the plans or procedures and the amended documentation shall be submitted to the Superintendent within 5 business days of such notice.

(b) Management System Plans

The quality plan for a stage of the contract shall require the preparation of the following management system plans and shall be forwarded to the Superintendent by the nominated time:

- Traffic Management Plan [refer Section 160.07]
- Environmental Management Plan [refer Section ##176:]
- Work Health and Safety Management Plan [refer Annexure Part B to the General Conditions of Contract].

(c) Work undertaken by subcontractors

The Contractor must ensure that all works carried out by subcontractors complies with the requirements of this Specification.

The Quality Plan must include:

- procedures and criteria for the evaluation, selection, supervision and monitoring of performance of subcontractors;

- procedures that will ensure that subcontractors comply with the Quality Plan requirements relating to:
 - the Work Breakdown Structure;
 - Inspection and Test Plans;
 - Hold Points and Witness Points;
 - Product identification and traceability;
 - Construction procedures;
 - Control of non-conformance;
 - Progressive closure of Work Packages;
 - Management of Defects
 - On-line access to records

160.55 WORK BREAKDOWN STRUCTURE

The Work Breakdown Structure:

- Must be subdivided into discrete sections of the Works between readily identified points such as intersections, interchanges, cross roads, stream crossings, or other points established by the Contractor to manage staging of the Works;
- Within each discrete section, must be structured in successive layers of:
 - Assets, classified by standard Asset Types;
 - Asset Components within each Asset, classified by standard Component Types; and
 - Work Packages within each Asset Component, where each Work Package represents a group of Work Lots covered by an Inspection and Test Plan
- Must include a system of uniquely identifying each separate element within the structure
- Must be progressively defined and maintained in the contractor's record management system.

Unless otherwise specified, the standard Asset Types and Asset Component Types must conform to the Austroads Guide to Project Delivery Part 5: Road Construction Quality Assurance.

The Quality Plan must include the following details for the Work Breakdown Structure:

- A definition of the discrete sections of the Works.
- The standard Asset Types and Asset Component Types.
- A system that will be used to uniquely and consistently identify each element of the Work Breakdown Structure in the Design and Construction Program, Design Documentation, and Construction Records.

160.56 INSPECTION AND TEST PLANS

The content of the Inspection and Test Plans and associated lot records must conform to the Austroads Guide to Project Delivery Part 5: Road Construction Quality Assurance.

The Contractor must:

- ensure that Inspection and Test Plans include all verification check points required by relevant specifications;

- prepare a template for each of the Construction Records designated in each Inspection and Test Plan; and,
- submit each Inspection and Test Plan template and the associated Construction Record templates at least 10 Work Days prior to commencing any related construction activities.

Verification check points identified in the content of the Inspection and Test Plans shall be designated as either a **Review Point**, **Hold Point** or **Witness Point**.

Construction Record templates must show the specified inspection and test requirements and acceptance criteria, and require entry of the actual inspections and tests performed and test results.

The submitted templates must be amended to address any non-conformances notified by the Superintendent.

Prior to commencing any Work Package, an Inspection and Test Plan and associated Construction Record must be prepared using the relevant template.

The Superintendent may review the Inspection and Test Plans and may elect to nominate one or more Hold Points as Witness Points or as Superintendent-released Hold Points in addition to those in Clause 160.53.

160.57 NOMINATED HOLD POINTS AND WITNESS POINTS

The Contractor's quality plans and procedures shall identify all Hold Points and Witness Points including all Hold Points identified by the Specification.

The Superintendent must be given reasonable notice of each Witness Points and the intended release of each Hold Point and may nominate persons to attend each Witness Point and the release of each Hold Point. Unless otherwise specified or agreed by the Superintendent, reasonable notice means at least 2 Business Day.

A Hold Point must only be released by the nominated Quality Assurance Verifier, who must physically inspect the works and the completed Lot Records to verify compliance with the Inspection and Test Plan and the Design Documentation before releasing the Hold Point.

160.58 PRODUCT IDENTIFICATION AND TRACEABILITY

The Contractor's procedures and systems for records management must ensure that:

- every Work Lot required to construct the Works is uniquely identified;
- each Work Lot is recorded on the Inspection and Test Plan for the relevant Work Package within the Work Breakdown Structure;
- the Lot Records for each Work Lot are traceable to the Work Lot and to the relevant checkpoint within the applicable Inspection and Test Plan; and,
- all requisitions for testing and the corresponding test certificates are traceable to the relevant Lot Record.

160.59 CONSTRUCTION PROCEDURES

The Contractor must ensure that documented construction procedures:

- will achieve specified requirements;
- are understood and used by construction personnel;
- identify Hold Points and Witness Points that must be notified to the Superintendent; and,

- are reviewed for corrective action in the event of non-conformance.

Construction procedures that are required under the Contract to be submitted for review:

- must be identified in a schedule in the Quality Plan which shows the proposed date for submission;
- must be submitted to the Superintendent at least 10 Business days prior to the planned commencement of the respective construction activities; and,
- must be amended to address non-conformances notified by the Superintendent before the construction activities commence.

160.60 CONTROL OF NON-CONFORMING PRODUCT

The Contractor must;

- notify the Principal and the Superintendent of any non-conformance with respect to the contract requirements within 2 Business Days of the non-conformance being identified by the Contractor or notified by the Principal or the Superintendent;
- maintain a register in which each Notice of Non-Conformance and the status of each Notice is recorded;
- review and analyse the cause of all non-conformances and develop a plan of corrective action to minimise the likelihood of re-occurrence.

The Quality Plan must include a procedure for managing non-conformances and identify which of the following options is proposed:

- rectification to achieve full compliance, thereby extinguishing the non-conformance;
- a Design Change, to accommodate the non-conformance whilst still meeting all specified requirements;
- repairs permitted by the relevant Reference Documents, subject to the Principal accepting proposed repair procedures and Inspection and Test Plans;
- the Principal accepting the non-conformance as a Defect.

A Work Lot non-conformance must be treated as a Hold Point which must not be released until:

- a procedure for managing non-conformances acceptable to the Principal is submitted to the Principal and the Superintendent;
- the Superintendent has been notified of the intended release of the Hold Point;
- the works and the lot records have been inspected to verify that the accepted procedure for managing non-conformances has been implemented; or
- any Work Lot non-conformance accepted by the Principal as a Defect has been recorded in the Defect register; and

Each Notice of Non-Conformance must be recorded in the register as either a Work Lot non-conformance or a process non-conformance, and the status of each Notice of Non-Conformance must be recorded as 'Open' in the register until;

- in the case of process non-conformances, closure has been authorised by the Quality Manager; or
- in the case of Work Lot non-conformances, the associated Hold Point has been released.

The register must enable each Work Lot non-conformance to be traced to the affected Work Package in the Work Breakdown Structure.

160.61 PROGRESSIVE CLOSURE OF WORK LOTS

The Quality Plan must include procedures that will ensure that Work Packages are closed as soon as practicable after completion of the Work Lots within the Work Package.

Work Packages must not be closed until:

- all related inspections have been completed;
- all tests have been completed and the results recorded;
- all non-conformances have been notified and recorded in the register of Notices of non-conformance;
- all non-conformances have either been closed or with the Superintendent's approval, transferred to the Defects List;
- all changes to design details have been recorded and cross referenced to the relevant Design Change Notice on a marked up and certified copy of the relevant drawings;
- the complete set of Construction Records are available for inspection by the Principal and the Superintendent via the on-line access service;
- the designated Quality Assurance Verifier authorises closure of the Inspection and Test Plan to which the Work Lots relate; and,
- closure of the Work Package is recorded in the Contractor's records management system.

Work Packages must be closed before:

- The Work Package is covered up, unless approved otherwise by the Superintendent;
- Manufactured components, including precast and fabricated components, are erected or installed into the Works;
- The Work Package can be recorded as completed on a Progress Certificate.

160.62 DEFECTS

Prior to completion of the Works and for the duration of the Defects Liability Period the Contractor must maintain a register for monitoring the rectification of any Defects:

- recorded in the process of closure of Work Packages; or
- identified by the Contractor or notified by the Principal or Superintendent after closure of the respective Work Packages.

Records of Defects must not be deleted from the Defects Register.

The Defects Register must:

- identify the Asset Component to which the Defect relates;
- include sufficient detail to enable the Defect to be readily located;
- identify any Defects proposed to be accepted by the Principal and include references to any correspondence between the parties in respect of such Defects;
- show details of the proposed rectification plan;
- record when the Defect is rectified and when the Defect is closed.

A Defect must not be closed in the Defects Register unless:

- the rectification plan has been accepted in writing by the Principal;

- a nominated Quality Assurance Verifier has physically inspected the rectification works and verified compliance with the rectification plan; and
- a nominated Quality Assurance Verifier has authorised closure of the Defect; or
- the Defect has been accepted in writing by the Superintendent.

160.63 AUDITS BY THE CONTRACTOR

~~The Contractor shall carry out audits in accordance with the requirements of AS/NZS ISO 19011:2002 'Guidelines for quality and/or environmental management systems auditing'.~~

~~The Contractor shall prepare an audit and surveillance schedule for each subcontractor, which shall be submitted to the Superintendent for review prior to the commencement of work by the subcontractor. The Contractor shall conduct regular surveillance and audits of all on site and off site subcontractors, sufficient to ensure that all work and materials comply with the Contract.~~

~~The Contractor shall notify the Superintendent of the times when formal audits of a subcontractor are to occur.~~

~~The Contractor shall carry out surveillance for precast concrete, structural steelwork and protective coatings of structural steelwork in accordance with the following references:~~

- ~~— VicRoads Technical Bulletin No 46 — Guide to Surveillance of Structural Steelwork~~
- ~~— VicRoads Technical Bulletin No 47 — Guide to Surveillance of Precast Concrete~~
- ~~— VicRoads Technical Bulletin No 48 — Guide to Surveillance of Protective Coatings of Structural Steelwork.~~

~~The Contractor shall comply with all the requirements of these references including using companies accredited by NATA for surveillance of these respective activities and surveillance officers engaged by these companies having the qualifications and experience specified in these respective references.~~

160.64 RECORDS

During the execution of work under the Contract, the Contractor shall maintain records pertaining to the Contract in accordance with the Contract and the Contractor's Quality System.

The Contractor shall maintain the following records as a minimum:

- all test records;
- all Hold Points;
- all Inspection and Test Plans;
- all relevant survey information;
- all plant and labour records confirming daily usage and work activities throughout the Contract;
- all weather records; and,
- copies of all construction programs.
- The Contractor must establish records management procedures and systems that will ensure that:
- the construction records identified in the left column of table below, including records for works undertaken by subcontractors, are integrated within a system managed by the Contractor;

- the Principal and the Superintendent have convenient on-line access (electronic documents accessible via the internet) to the design and construction records; and.
- design and construction records are recorded progressively and promptly in the system to show, as far as reasonably practicable, the current status of the Works.

Construction Records

Design & Construction Records	Reporting Variables
The Work Breakdown Structure	Project Section or Asset Type
Construction Procedures	
ITP & Work Lot Record Templates	
Work Lot register	Work Breakdown Structure or Status
Closed Work Lot Records	Work Breakdown Structure
Sampling and test results register	Work Lot or Test Laboratory
As-Built drawings	Work Breakdown Structure
Notice of non-conformance register	Work Breakdown Structure
Defects register	Work Breakdown Structure

The Contractor shall make all records pertaining to the Contract available to the Superintendent at all times and when requested by the Superintendent, the Contractor shall provide a copy of the requested records within 5 business days.

The on-line access must:

- present records in a format acceptable to the Principal and the Superintendent
- enable convenient searching and selection of records
- enable printing of reports or downloading of reports in electronic (Microsoft Office or Adobe PDF) format.
- all current and superseded versions of documents must be accessible at all times with the current version being predominant and each superseded version clearly distinguishable from each other.
- to protect against tamper or fraud, documents must be protected from either accidental or intentional deletion or modification (i.e. restricted to read only access). Access to documents must be restricted to only those authorised by the Contractors' Representative or the Superintendent. A register of persons so authorised is to be maintained by the Contractor and shall include a record of the written authorisation.

Documents must be accessible on-line within twelve (12) hours following the completion of the respective works. Further to definition of 'Practical Completion' in the General Conditions of Contract, the supply of the following documents are deemed to be essential for the use, operation and maintenance of the Works:

- Completed Works Report
- Contract Records related to the Completed works (i.e. Hold Points, test records, material certificates, product compliance certificates etc.)
- As-Constructed Drawings
- Service Installations and Relocations
- Design Calculations.

The Contractor's records management system shall include the provision of these documents by the Contractor to the Superintendent for review and acceptance prior to issue of a Certificate of Practical Completion. Within 7 days of the submission of each document, the Superintendent shall advise whether the document is accepted.

The Completed Works Report in the required Microsoft Excel format is available for download at <https://www.transport.tas.gov.au/road/contractor/specifications/specification-listings-standard-sections>

The Completed Works Report shall also contain the following information:

- records on the condition of the completed works (e.g. roughness surveys, deflection surveys, baselines for corrosion or other protection systems); and,
- records relevant to assessing the structural capacity of the works, including, where applicable, sub-surface conditions, foundations and sub-structures.

The Contractor must provide an electronic copy of the design and construction records to the Principal prior to Final Completion in a format that will enable the records to be archived in the Principal's Asset management System

160.65 AS-CONSTRUCTED DRAWINGS

As-Constructed Drawings shall be prepared from the Principal supplied AutoCAD drawings (dwg) in accordance with State Growth Standard Specification T13 CADD Manual

A set of As-Constructed drawings in both AutoCAD drawing format (dwg) and Adobe Acrobat PDF format, generated from AutoCAD drawing files, shall be produced at a resolution suitable for effective interpretation.

Drawings should be marked with the latest revision number and titled "As Constructed" on each drawing. Any changed information on drawings is to be enclosed in a "revision cloud" for easy identification.

"As Constructed" information for installed and relocated services shall be included on the drawings and shall also be provided to each Service Authority with the relevant details and in the required formats to meet their individual requirements for this documentation. Copies of this information with confirmation of receipt and acceptance by the Service Authority shall be supplied by the Contractor to the Superintendent.

For works requiring the design and construction or renewal of structures, the design calculations pertaining to the Issued for Construction design drawings will be supplied to the Superintendent. This shall be completed by the Contractor prior to the Superintendent issuing the certificate for practical completion

160.66 SURVEILLANCE AND AUDITS BY THE SUPERINTENDENT

The Superintendent will arrange surveillance and audits to ensure that the Contractor is complying with the Quality Management System.

The Contractor shall, upon being given reasonable notice by the Superintendent, make or arrange to be available all facilities, documentation, records and personnel, including those of any sub-contractors, that are reasonably required for audits to be undertaken.

Notwithstanding that the Principal may have previously undertaken audits of a sub-contractor's quality management system in connection with other work, the Contractor shall include the operations of all such sub-contractors in the Contract quality plan and shall fulfil all the quality obligations of the Contract.

The Principal will carry out audit and surveillance of the work of all sub-contractors as it sees fit, in the same way that it may carry out audit and surveillance of all work done and

materials supplied by the Contractor. The Superintendent may for this purpose have recourse to audit and surveillance carried out for other contracts with the Principal. Copies of any such audit and surveillance reports used by the Superintendent will be provided to the Contractor.

The Superintendent must be granted access to inspect and audit the contractor's design and construction records and if requested by the Superintendent, the Contractor must arrange for personnel to explain the design and construction records.

The Superintendent must notify the Contractor at least 2 Business Day prior to an inspection specifying the scope of the records to be made available for audit.

160.67 NOT USED

160.68 CONTRACTOR'S SITE COMPOUND

The Contractor shall erect, maintain, secure and subsequently remove such buildings, compounds, sanitary accommodation, explosive magazines and associated services as required by the Contractor for the supervision and construction of the Works. The Contractor shall obtain all necessary local municipal permits and approvals associated with the site establishment and access arrangements associated with its site compound.

The location and form of such buildings and compounds shall:

- (a) minimise noise, disturbance and inconvenience to all abutting properties
- (b) maintain a minimum clearance of 30 m to the closest boundary of all abutting properties
- (c) be consistent with, and complement the Environmental Management Plan and Health and Safety Co-ordination Plan
- (d) provide suitable hard-stand areas for storage of materials and equipment and parking vehicles
- (e) allow for all pedestrian traffic.

The Contractor, subject to the agreement of the Superintendent and the local municipal authority, may be permitted to use portions of the Site, for establishment of buildings and compounds.

The buildings, compounds, associated services, sanitary accommodation and explosive magazines erected by the Contractor shall be regarded as Materials or Constructional Plant and as such shall be considered as constructional plant under the General Conditions of Contract.

At the completion of the Works, these facilities will remain the property of the Contractor and shall be removed from the Site and the area reinstated to the satisfaction of the Superintendent.

160.69 NOT USED

160.70 WATER FOR CONSTRUCTION PURPOSES

The Contractor shall make its own arrangements for water supply to provide the quantity and quality required to complete the work. For any chosen source of water supply, the Contractor shall obtain the necessary approvals from the appropriate authorities and shall act in accordance with any conditions stipulated.

160.71 NOT USED

160.72 CONSTRUCTION PROGRAM**(a) Interpretation**

For the purposes of this sub-clause, 'construction program' means a program in the format of an activity orientated, critical path network which shows how the Contractor proposes to complete the Works or any separable part of the Works within the period or by the respective dates for Practical Completion.

(b) Construction Program Requirements**(i) No Requirement:**

A construction program is not required to be submitted by the Contractor. Items (c), (d), (e), (f) and (g) of this clause do not apply.

(ii) Minor Construction Contracts:

Before commencing work under the Contract the Contractor shall supply to the Superintendent for review a construction program illustrating the planned sequence of work. The program shall be in bar chart form, including the principal activities to be undertaken and restraints clearly identified with a time scale shown in weeks and months. The program shall identify critical path activities, include dates for starting and completion of the principal activities and planned dates for practical completion of the Works or separable parts. Items (c), (d), (e), (f) and (g) of this clause shall apply as far as they are applicable.

(iii) Major Construction Contracts:

Where a program has been provided as part of the tender, it shall be incorporated into the Contract until the Construction Program has been reviewed by the Superintendent.

Within 20 business days after the date of acceptance of tender, the Contractor shall submit to the Superintendent for review a construction program which takes into account the requirements of the Contract. The program shall be submitted in both electronic format and hard copy.

The program shall be computer based using 'Microsoft Project 2007' or an alternative computer program approved by the Superintendent. It shall be in sufficient detail to demonstrate any entitlement that the Contractor may from time to time claim to have pursuant to the General Conditions of Contract and be capable of providing reports which are able to identify the following features in acceptable formats:

1. detailed activities for all work elements including design activities, construction activities, service relocations and work by statutory authorities;
2. procurement periods and delivery dates for major items of goods, plant and materials;
3. activity dependencies;
4. critical path activities identified for the Works and any Separable Portion of the Works;
5. duration, earliest and latest start and finish dates and total and free floats for each activity;
6. dates by which decisions or materials are required from the Superintendent or the Principal;
7. milestones which identify significant events including completion of Separable Portions;
8. allowance for adverse weather and other time risk allowances;

9. non-work periods;
10. dates by which design work or drawings to be produced by the Contractor or samples will be submitted to the Superintendent including allowance for reviews and re-submittals;
11. the estimated value of work to be done each month throughout the Contract.

The Contractor shall submit with the construction program the estimated contract value of work to be done each month throughout the Contract and detailed reasons for any divergence from the program and cash flow submitted with the tender.

Items (c), (d), (e), (f) and (g) of this clause shall apply.

(i) Utility Service Relocation

In developing the construction program, the Contractor shall consider all issues associated with the relocation of public utility services. The Contractor shall fully inform itself of the impact of the works under the Contract on existing services and make allowance in its construction program for the lead times required by each service authority for design, liaison, supply of materials, notification to residents and construction periods, including making allowance for any periods of the year when services cannot be relocated.

The Contractor shall consider the impacts of its Service Relocation Strategy in the development of its Construction Program.

(c) Review of Submitted Program

- (i) If the Superintendent considers that the submitted construction program or any subsequent revision thereto does not show sufficient details, or is impractical, or does not comply with the requirements of the Contract, or will not result in completion of the Works or any separable part of the Works by the relevant Date for Practical Completion, the Superintendent may direct the Contractor to resubmit to the Superintendent an amended construction program within 5 business days for further review.
- (ii) Should the submitted construction program provide for completion of the Works or a separable part of the Works in advance of the relevant times for Practical Completion and the Superintendent does not direct the Contractor to supply an amended construction program, the Contractor may proceed to prosecute the work in accordance with the submitted construction program at the Contractor's own risk. The dates for particular activities or Practical Completion shown on a construction program will not be accepted as a substitute for any corresponding specified dates in the Contract which shall continue to be the basis for assessment of progress of work and any claims made under the Contract for extensions of time and additional costs.

(d) Review of Progress

At generally monthly intervals unless otherwise agreed, the Contractor and the Superintendent shall together review the progress of the work under the Contract in comparison with the current construction program. Prior to the meeting, the Contractor shall update the current construction program to show the status and progress of work on each activity. Progress shall be recorded by means of actual start and actual finish dates for activities, together with percentage completion and/or remaining duration of incomplete activities.

The review of progress will be conducted at the monthly site meeting or at shorter intervals as decided by the Superintendent.

(e) Updating and Reporting on Construction Program

The Contractor shall maintain a complete record of the construction program and its changes on CD/DVD and in hardcopy, throughout the contract.

- (i) The Contractor shall submit to the Superintendent updated construction programs:
 - 1. at intervals not exceeding 3 months during the Contract; or
 - 2. within 10 business days of any change to the critical path for the Works or any separable part of the Works.
 - 3. within 5 business days of a request to do so from the Superintendent including, if applicable, an explanation in writing of delays in execution of the work under the Contract in comparison with the construction program.
- (ii) Updated construction programs shall provide the same level of detail as the original Construction Program and shall:
 - 1. show the 'as-constructed' program in respect of all work carried out to the time of updating;
 - 2. be accompanied by a statement of the reasons for any changes from the previously submitted Construction Program;
 - 3. incorporate all extensions of time which have previously been granted or allowed up to that time by the Superintendent pursuant to Clause 35.5 of the General Conditions of Contract;
 - 4. be accompanied by a statement of any claims for extensions of time which have previously been notified by the Contractor in accordance with Clause 35.5 of the General Conditions of Contract in respect of which the Superintendent is yet to determine.
- (iii) Any updated construction program submitted in accordance with (i) above shall be reviewed by the Superintendent on the basis set out in item (c) above.

(f) Rate of Progress

Where the Superintendent at any time considers that the rate of progress is insufficient to ensure completion of the Works or any separable part of the Works by the relevant Date for Practical Completion, the Superintendent may direct the Contractor to submit within 10 business days written details of the intended procedure for the execution of the remainder of the work under the Contract.

160.73 SITE MANAGEMENT AND SUPERVISION

(a) Site Supervision

The Contractor's site management, programming and program control, quality assurance and methods of work shall be supervised daily by an experienced and qualified engineer. This engineer shall possess the experience and qualifications which would be acceptable to the Institution of Engineers Australia as satisfying the requirements for Corporate Membership, including at least 5 years experience in the relevant construction field.

(b) Site Survey

For the purposes of setting out the Works in conformity with the specification and drawings, the Contractor shall engage an experienced and qualified surveyor. This surveyor shall possess the experience and qualifications which would be acceptable to the Institution of Surveyors, Australia as satisfying the requirements for Corporate or Associate Membership or alternatively, possess the experience and qualifications which would be acceptable for Membership to the Institution of Engineering and Mining Surveyors, Australia.

The surfaces and quantities measured by the Contractor under this Contract shall be made available to the Superintendent in an electronic format or other format approved by the Superintendent.

(c) Landscape Supervisor

The Contractor shall nominate a Landscape Supervisor to be on site for the duration of all landscape work. This person shall have a Landscape Trade Certificate (TAFE), equivalent qualification or at least 2 years horticultural expertise on work of a similar size and scope.

Should the Contractor's site supervisory staff prove unsatisfactory with respect to progress, quality of work and methods of work, the Superintendent may direct the Contractor to provide such additional competent and experienced staff as may be necessary to ensure satisfactory progress of the Works and that the quality and the methods of work are acceptable.

160.74 NOT USED

160.75 NOT USED

160.76 EXAMINATION AND TESTING OF MATERIALS AND WORK

(a) General

The Contractor shall be responsible for carrying out all examination and testing of materials and work under the Contract in accordance with the requirements of the specification.

Unless otherwise specified, materials and workmanship shall comply with the relevant standard as defined in Section 175.

(b) Allowance for Testing in Construction Program

The Contractor shall make allowance in the construction program for the time necessary to arrange for and to carry out examination and testing of materials and work.

(c) Notification

Where inspection of materials or work by the Superintendent or his representative is specified as a hold point, or where a hold point is created by a nonconformance, at least 24 hours notice of testing and/or inspection shall be given to the Superintendent.

(d) Tests

Unless otherwise specified, all tests and sampling shall be undertaken in accordance with the appropriate VicRoads codes of practice and applicable test methods as current at the time of performance of the tests. Unless otherwise specified, all tests shall be conducted by experienced testing officers in a laboratory accredited by the National Association of Testing Authorities (NATA) for the test methods used under the Contract and all tests shall be endorsed in accordance with the NATA registration for that laboratory.

Lists of current VicRoads codes of practice are available online at the VicRoads website www.vicroads.vic.gov.au.

All construction materials sampling shall be undertaken by either:

- (i) personnel from a NATA laboratory accredited for the appropriate sampling methods; or
- (ii) personnel who have successfully completed an accredited TAFE course in sampling of construction materials delivered by a registered training organisation, and have taken a refresher course in sampling of construction materials every three years.

The sampler shall be identified on the test report.

(e) Test Results

The Contractor shall submit to the Superintendent a monthly summary, or if requested by the Superintendent a weekly summary, of testing undertaken. The summary shall include details of all tests undertaken, the result of each test and sufficient additional information to demonstrate that the specified minimum frequency of testing is being complied with.

The summary of test results shall be submitted to the Superintendent by the second day of the week following the relevant period.

(f) Calibration

All test equipment used for tests, carried out in accordance with Clause 160.76(d) above, shall be calibrated by a laboratory accredited by NATA for the particular calibration method.

160.77 DRAINAGE OF WORK SITE

The Contractor shall at all times provide for the safe discharge of seepage, drainage and stormwater during the execution of the works under the Contract. The Contractor shall be responsible to obtain all approvals from the local authorities and accept all costs associated with the discharge of any water into an existing outfall on a temporary or permanent basis.

160.78 CLEAN UP OF SITE

The Contractor shall be responsible for the proper disposal of the temporary or surplus material and no additional payment will be made for this work.

160.79 INSTRUCTIONS BY OTHER GOVERNMENT DEPARTMENTS AND AUTHORITIES

Other government departments and authorities and their representatives, whether federal, state or local, often have responsibilities that impact on Department of State Growth's works.

The Contractor shall report any instruction (orders or directions) given by an authorised representative of these government departments and authorities to the Superintendent immediately by mobile phone or as soon as practicably possible.

The Contractor shall co-operate with an authorised representative who is requesting access to the site under powers conferred by legislation and follow any instructions given by the authorised representative in the format nominated by the legislation.

160.80 SERVICES**160.80A Proving of Services****160.80B Private Service Connections****160.81 Property Accesses**

Unless otherwise agreed in writing with the property occupier, both pedestrian and vehicular access to adjacent properties shall be maintained at all times.

Where an access has been identified for permanent closure, the Contractor shall advise the relevant landowner in writing not less than two (2) weeks prior to closing the access.

160.82 INSPECTION OF PROPERTY

Prior to commencing operations, the Contractor shall engage a suitably qualified and experienced Building Surveyor to undertake inspections on all buildings and structures (including heritage structures) within a minimum distance of 100 m for general construction works and 200m of any blasting. Two copies of the written existing conditions report for each property, including any photographs, shall be prepared and signed by the property owner.

The condition of the buildings, structures and the property shall be detailed in the existing conditions reports which shall form the basis of assessment of any structural damage to buildings and structures arising out of the Contractor's operations in the event of a claim by the owner/occupier. The Contractor shall be responsible for the repair of any damage caused to property due to the Contractor's operations.

The Contractor shall submit to the Superintendent a copy of all existing condition reports of property and buildings prior to commencing work adjacent to such property or building.

For the purposes of this clause the Site is defined as the nearest point of the work adjacent to any building or structure.

The Contractor shall bear all costs associated with any claim for damages resulting from the effects of the Contractor's operations, including ground vibration, directly caused by the Contractor's construction methods. The cost of such damage shall be in addition to damage caused by other action attributed to the Contractor's work.

Before final payment is made, the Contractor shall obtain written clearance from all landowners and occupiers affected by the provision of this clause, to certify that the landowner and occupier have no claim for any loss or damage due to the Contractor's operation. A copy of all written clearances shall be forwarded to the Superintendent prior to the Contractor's Final Claim.

160.83 WORK IN PRIVATE PROPERTY

Where the Contractor is authorised by the Superintendent to enter private property to carry out work under the Contract, the Contractor shall give the owner and occupier of the land a minimum of 5 business days notice of intention to enter or to remove any fence and shall also erect any temporary fencing that may be necessary.

Entry shall be by a gate, or gates to be erected by the Contractor which shall be kept securely locked when not in use. Where fences are rabbit proof, the gates erected shall also be made and kept rabbit proof, and the Contractor shall be responsible and liable for the trespass of vermin.

160.84 CLEARANCES FROM LANDOWNERS AND OCCUPIERS

Before final payment is made, the Contractor shall produce written clearances from all owners and occupiers whose properties have been entered by the Contractor or the Contractor's employees or agents, for the purpose of carrying out work under the Contract.

160.85 NOT USED

160.86 USE AND CARE OF ROADS

The Contractor shall be responsible for repair of damage caused to any roads, bridges or other structures by transporting material under the Contract. The Contractor is advised that the Department of State Growth and municipal councils have power under their respective Acts to recover the cost of repair of damage to roads. If requested by the Superintendent, the Contractor shall submit clearances from municipal and other authorities concerned before the Final Certificate is issued. In respect of repair of damage to roads, the Contractor will be deemed when tendering:

- (a) to have inspected the roads used for transport;
- (b) to have acquired, by consultation with the municipal or other authorities concerned, knowledge of the roads and any existing or likely restrictions upon their use which could affect the transport proposals;
- (c) to have assessed the possibility and extent of any damage to the roads which may be caused by transport under the Contract;
- (d) to have made due allowance for the effects of such restrictions and for the cost of rectification of such damage in accordance with the requirements of the authorities concerned.

160.87 INCIDENT REPORTING

This Clause and the following Clauses 160.88, 160.89 and 160.90 are not applicable to Work Health and Safety which is to be in accordance with the requirements of the General Conditions of Contract.

The Contractor shall implement and maintain an Incident Reporting System for the duration of the Contract. The Contractor shall enter, into the Incident Reporting System, details of all incidents (including 'near incidents') arising from or relating to the work under the Contract, or on or adjacent to the site, during the Contract term, which may, or could, have resulted in claims for personal injury or property damage to third parties.

The Incident Reporting System shall record all incidents in respect of which any third party may claim. This shall include any possible claim for personal injury and all damage to property.

The Incident Reporting System shall also record details of notes, records and photographs or any other evidence relating to any incident.

The Incident Reporting System shall also record details of any injury or damage caused by registered motor vehicles.

160.88 ACTIONS IN RESPECT OF INCIDENTS

The Contractor shall take immediate steps to minimise the extent of personal injury or property damage arising from an Incident. The Contractor shall take careful note of the evidence surrounding the Incident, including notes or reports of the facts relating thereto and photographs.

The Contractor shall, as soon as practicable, inform the Principal in writing of any Incident that may give rise to a claim under an insurance policy effected as required by any of the insurance clauses under the General Conditions of Contract and shall ensure that the Superintendent is kept fully informed of the Incident, the subsequent action and developments concerning the claim.

The Contractor shall take such steps as are necessary or appropriate to ensure that a sub-contractor shall, in respect to an event or claim of a like nature arising out of or relating to the operations or responsibilities of the sub-contractor, take in relation to the Superintendent the like action to that which the Contractor is required to take under this clause.

Where the Incident is reportable to the Principal's Insurer under its Policy, the Contractor shall, in accordance with Policy conditions:

- (a) notify the Principal's Insurer immediately -
 - (1) by telephone if the matter is sufficiently serious to alert the Principal's Insurer and seek advice
 - (2) in writing, with a copy to the Superintendent and preserve any evidence, such as notes or photographs;
- (b) send to the Principal's Insurer immediately upon receipt any letter of demand, writ, claim, summons or proceedings or other like documentation;
- (c) co-operate with the Principal's Insurer in the investigation and defence of claims, including attendance at court if required.

All claims or correspondence received from third parties relating to incidents arising from or relating to the work under the Contract, which does, may, could result or may have resulted in a third party claim shall be actioned as follows;

- (a) Within 3 days of receipt of the claim or correspondence, respond directly to the third party acknowledging receipt of the claim or correspondence and where applicable provide details of the insurance process and timeframes for investigating the matter.
- (b) Whilst the matter is under investigation, each and every subsequent 21 days since last responding to the claim or correspondence, respond directly to the third party to report on the progress with investigations.
- (c) Once investigations have concluded and any claim determined, respond directly to the third party detailing the reasons for rejection or acceptance of a claim.

160.89 MONTHLY REPORTING

The Contractor shall report monthly to the Superintendent on all incidents included in the Incident Reporting System, including details of which matters have been reported to the Principal's Insurer (together with the date of such report) and the status of resolution of each Incident.

160.90 AUDITING OF INCIDENT REPORTING SYSTEM

The Contractor shall permit the Superintendent, staff of the Principal's Insurer, its auditors or any other auditors approved by the Superintendent to access and audit the Incident Reporting System and any documentation associated with claims or relating to Incidents or near Incidents and to take copies of any documents associated with claims or relating to the Incidents.

160.91 WORK HEALTH AND SAFETY INCIDENT REPORTING

Further to the requirements of the General Conditions of Contract the Contractor shall undertake incident reporting through the State Roads' Contractor Work Health and Safety incident management software.

The Principal will provide the Contractor with up to 5 accounts under the Contract (for Site Supervisor, WHS Advisor and any others requested). To enable this access to be provided the Contractor shall provide the following information, for each user, prior to commencing work on site.

- Full name
- E-mail address
- Phone number

Following receipt of this information the Principal will provide login details and any familiarisation training required.

160.92 USE OF HEAVY VEHICLE TRAILERS AT WORKSITES**160.92A Scope**

The following describes the requirements for use of heavy vehicle trailers on State Growth worksites.

160.92B Background

There is a history of heavy vehicle dog trailers rolling over on State Growth worksites due to the size and higher centre of gravity of these trailers.

The Department of State Growth has deemed that the risk of future incidents can be best mitigated by the application of Teflon lined floors, or an alternative material that meets or exceeds the performance standards of Teflon lining, to heavy vehicle dog trailer trays.

The Principal requires that all contractors will work towards meeting the requirements of this Specification immediately, noting that by January 2022 specified heavy vehicle dog trailers **must** be compliant with this requirement.

160.92C Application

This applies to the following heavy vehicle dog trailers used to run out material delivered to sites under contract with the Principal:

- Quad (four axle) dog trailers
- Quin (five axle) dog trailers

Materials relevant to this Specification relates to all materials which are run out on State Roads worksites.

160.92D Requirements

The following requirements shall apply to all contracts:

(a) Responsibilities

The following are the responsibility of the head contractor:

- Ensure the safe delivery of materials to all worksites including the undertaking of pre-delivery risk assessments to consider issues such as – wind, ground conditions, centre of gravity of load, load type, and experience of driver.
- Ensure that all drivers are trained and verified as competent to perform the tipping task.
- Undertake a risk assessment when material is to be unloaded within 10m of live traffic. This shall include an assessment of suitable traffic management controls.
- Manage sub-contractors compliance with above requirements
- Monitor and document compliance through regular audits

(b) Equipment

- Heavy vehicle quad dog and quin dog trailer trays must have a Teflon lined floor, or an alternative material that meets or exceeds the performance standards of Teflon, to perform the tipping task when running out material.
- Any proposed alternative materials e.g. Steel trailers must be approved by the Principal prior to use on State Roads worksites.
- Heavy vehicle trailers without approved controls can only be used for stockpiling on worksites.
- Heavy vehicle semi-trailer tippers must not be used to run out material with a lifted tray under any circumstances.
- Heavy vehicle semi-trailer tippers can be used as a side tipper or for stockpiling of material when normal risk assessment processes are followed by the contractor.

(c) Technology

- All future engineering control technologies developed for market use to minimise the likelihood of trailer rollover not specified above must be approved by the Principal prior to use on State Growth sites.

REVISION REGISTER

Ed / Rev Number	Clause Number	Description of Revision
May 2019	All	New document to include project specific clauses replaces previous Section 160- Construction-General and Project Specific Clauses
April 2020	160.02 160.09 A,B & C 160.16 160.49A 160.64 160.85 160.91 160.92	Additional items added Clause numbering corrected New clause New clause Updated records requirements Clause removed now in new Section 177 New clause New clause
August 2020	160.41D	New clause
October 2020	160.41 160.07	Removed Added detail from 160.41
November 2020	160.88	Added new paragraph on third party claims
May 2021	160.03 160.13 160.42 160.45 160.46 160.49A 160.53 160.65 160.67 160.69 160.71 160.74 160.75 160.80A 160.80B 160.88	Added clause to ensure Contractor provides regular cash flow forecast to Superintendent Amended wording Removed all of 160.42, 160.42a, 160.42b, 160.42c as this is to be transferred into Section 176 Removed entire clause as it is a repeat of 160.14 Removed entire clause as it is a repeat of 160.15 Move clause to be included in 160.11 Adding of drafting note to cover project specific hold points being added to the contract. Amended wording Removed entire clause Removed entire clause Clause moved to 160.10 Removed entire clause Removed entire clause Moved to incorporate into 160.12A, 160.12B, 160.12C Removed both references to "... at its own expense..." for the Contractor. Included claim for damages clauses that had previously been removed