

LONG SECTION MC01

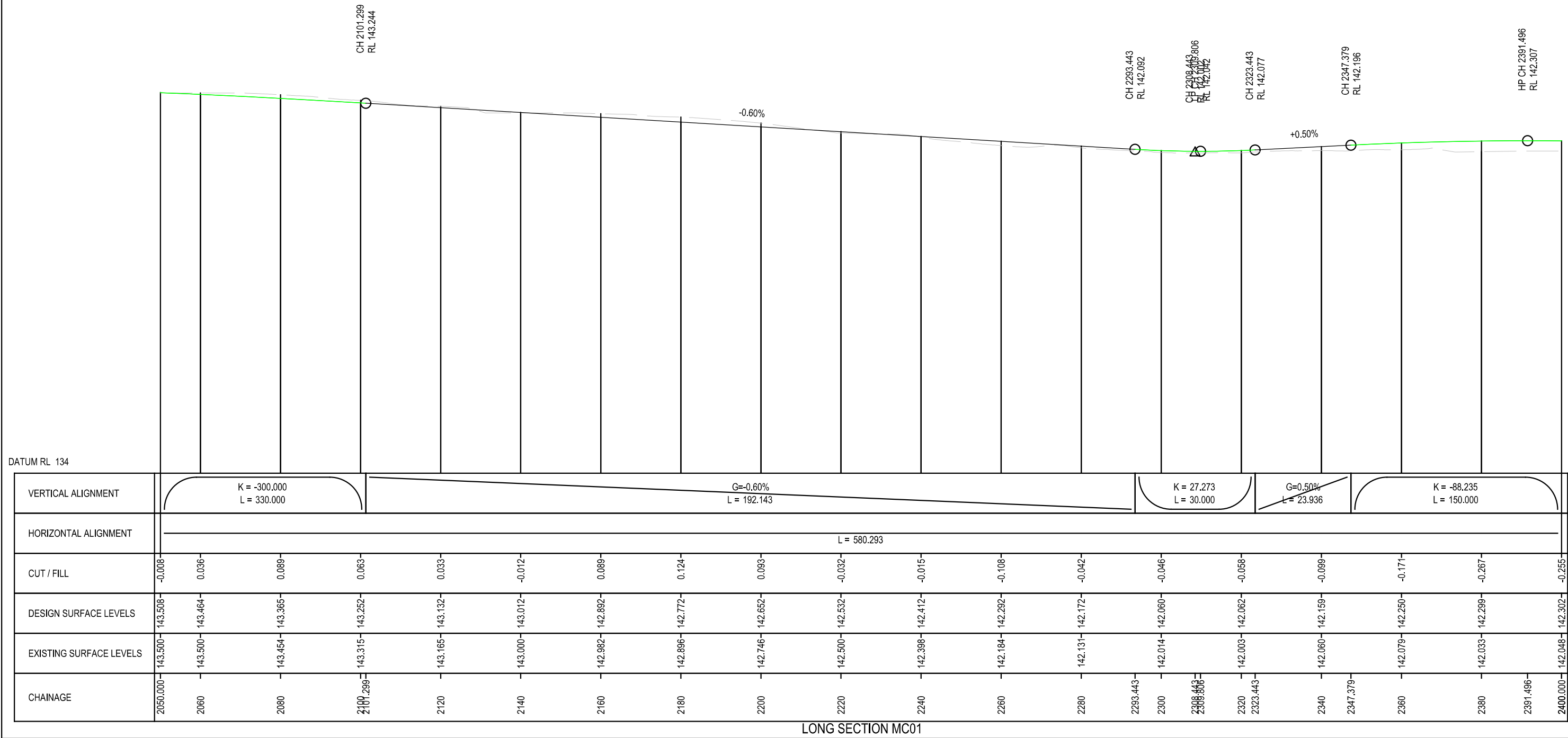
WARNING

BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 SMEC Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION MELTON HIGHWAY-MC01 SHEET 3						
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO									
B	AD	09.12.24	FINAL CONCEPT DESIGN												
A	AD	15.10.24	DRAFT CONCEPT DESIGN												
ISSUE	APP'D	DATE	AMENDMENT			CAT: PROJ: FILE: 30049249--7003.dgn		SCALE OF METRES HOR 0 20 40 VER 	FILE NO. 30049249	CONTRACT NO.	SHEET NO. 42	DRAWING NO. -7003	ISSUE C		

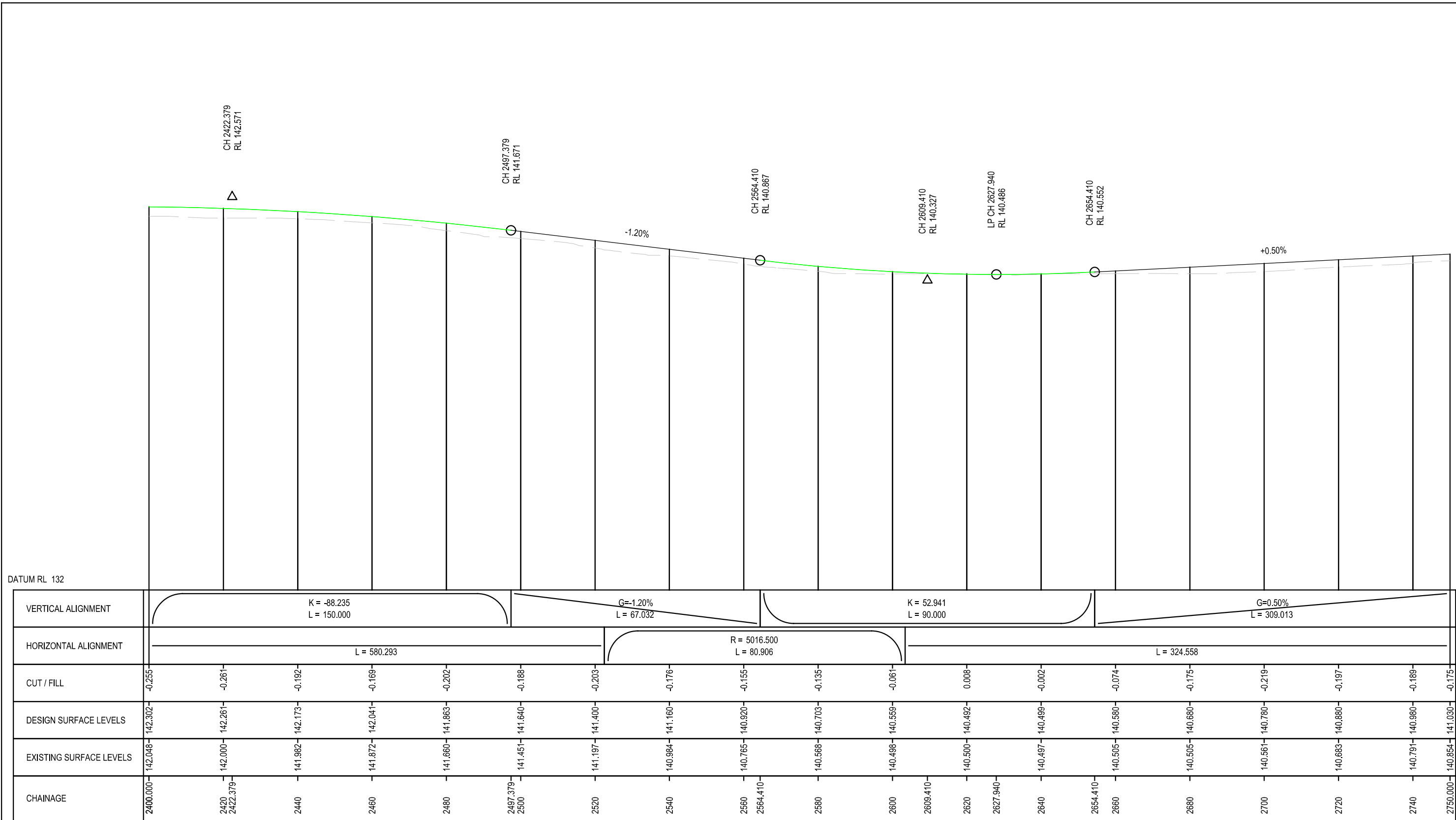


WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION MELTON HIGHWAY-MC01 SHEET 4				
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO							
B	AD	09.12.24	FINAL CONCEPT DESIGN			CAT: PROJ: FILE: 30049249--7004.dgn HOR02040 VER							
A	AD	15.10.24	DRAFT CONCEPT DESIGN										
ISSUE	APP'D	DATE	AMENDMENT										



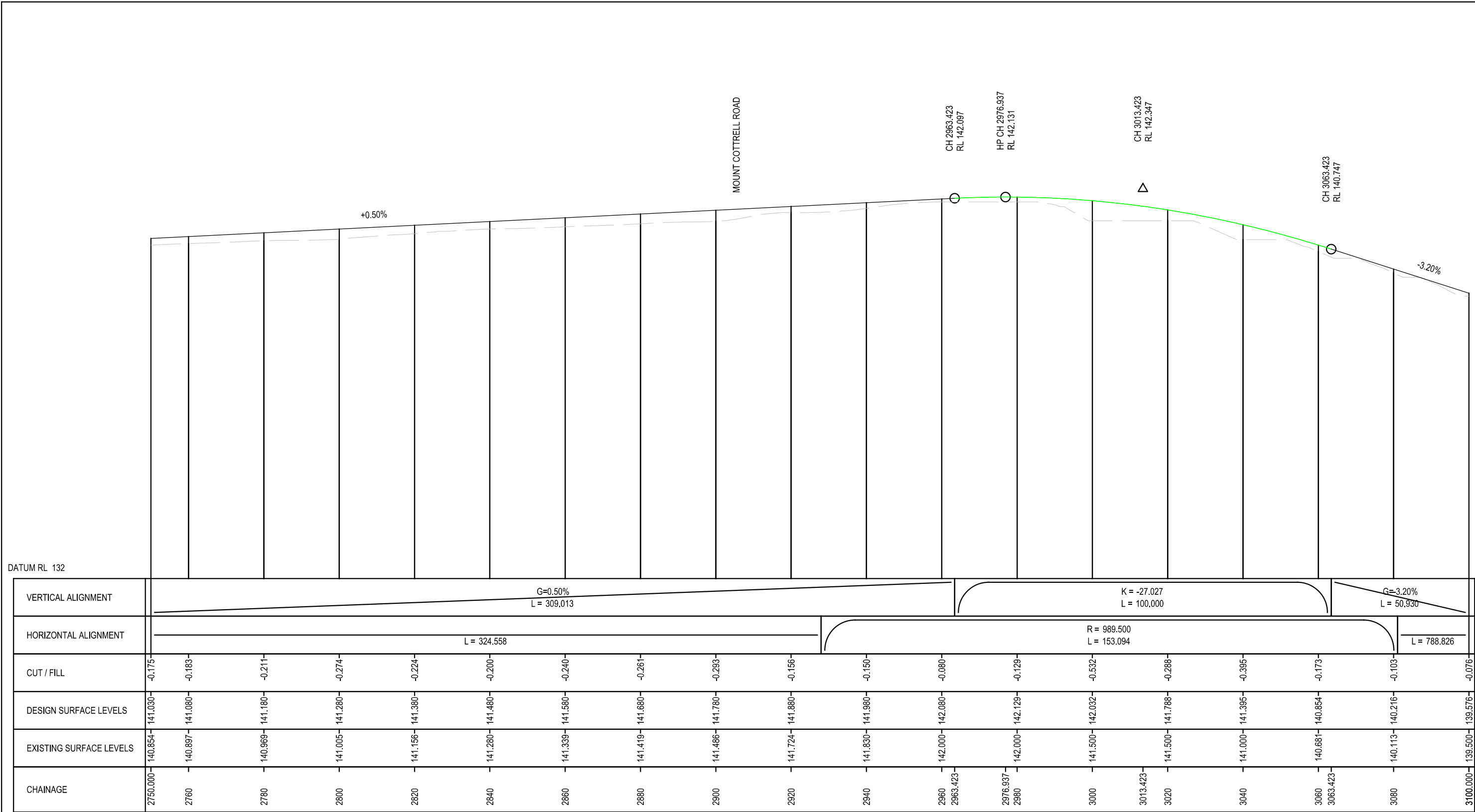
LONG SECTION MC01

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION MELTON HIGHWAY-MC01 SHEET 5					
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO								
B	AD	09.12.24	FINAL CONCEPT DESIGN											
A	AD	15.10.24	DRAFT CONCEPT DESIGN											
ISSUE	APP'D	DATE	AMENDMENT											
														CAT: PROJ: FILE: 30049249--7005.dgn



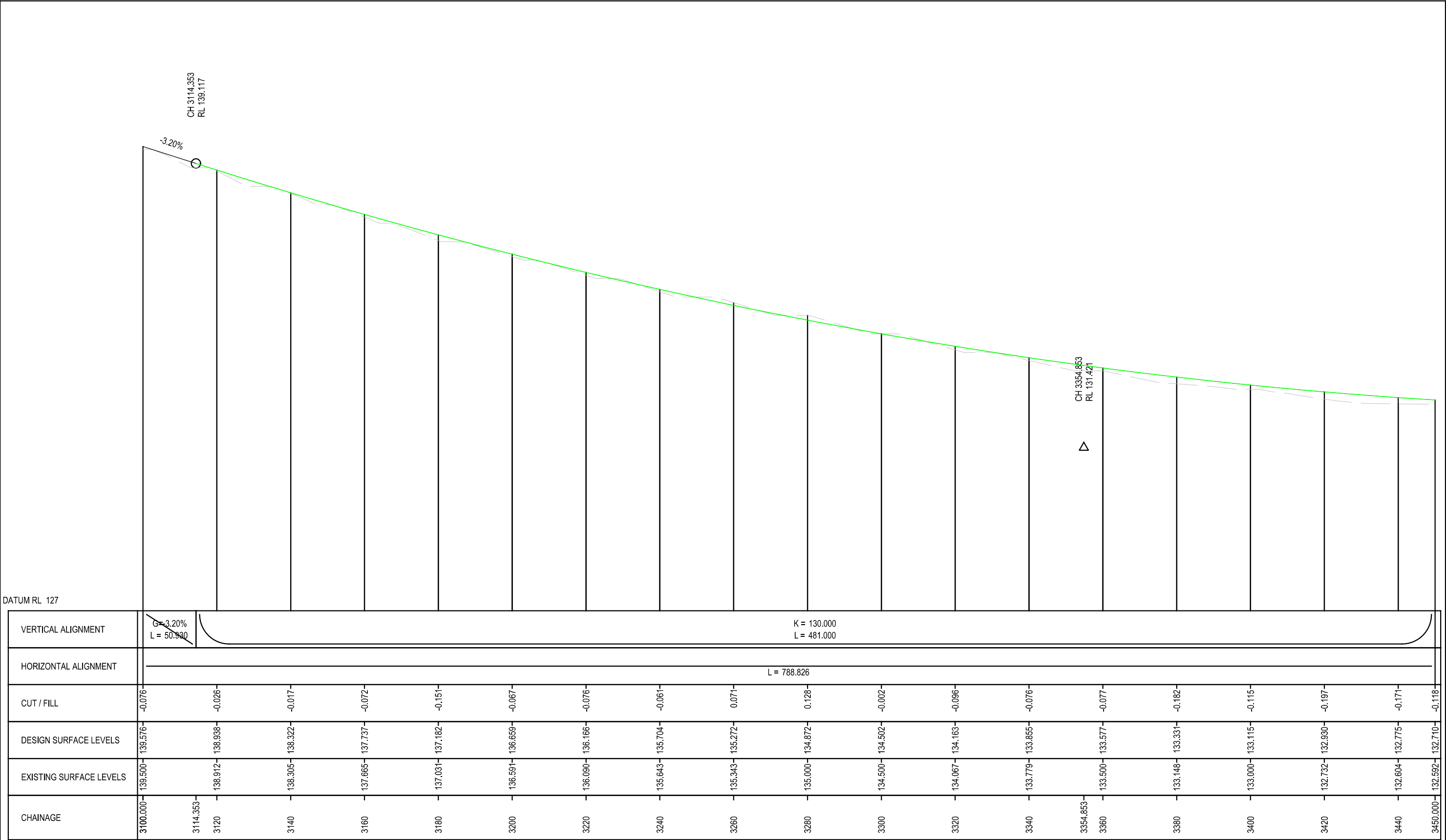
LONG SECTION MC01

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES		DESIGNED H DADWAL			MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION MELTON HIGHWAY-MC01 SHEET 6					
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO								
B	AD	09.12.24	FINAL CONCEPT DESIGN											
A	AD	15.10.24	DRAFT CONCEPT DESIGN											
ISSUE	APP'D	DATE	AMENDMENT											
						CAT: PROJ: FILE: 30049249--7006.dgn		SCALE OF METRES HOR 0 20 40 VER		FILE NO. 30049249	CONTRACT NO.	SHEET NO. 45	DRAWING NO. -7006	ISSUE C



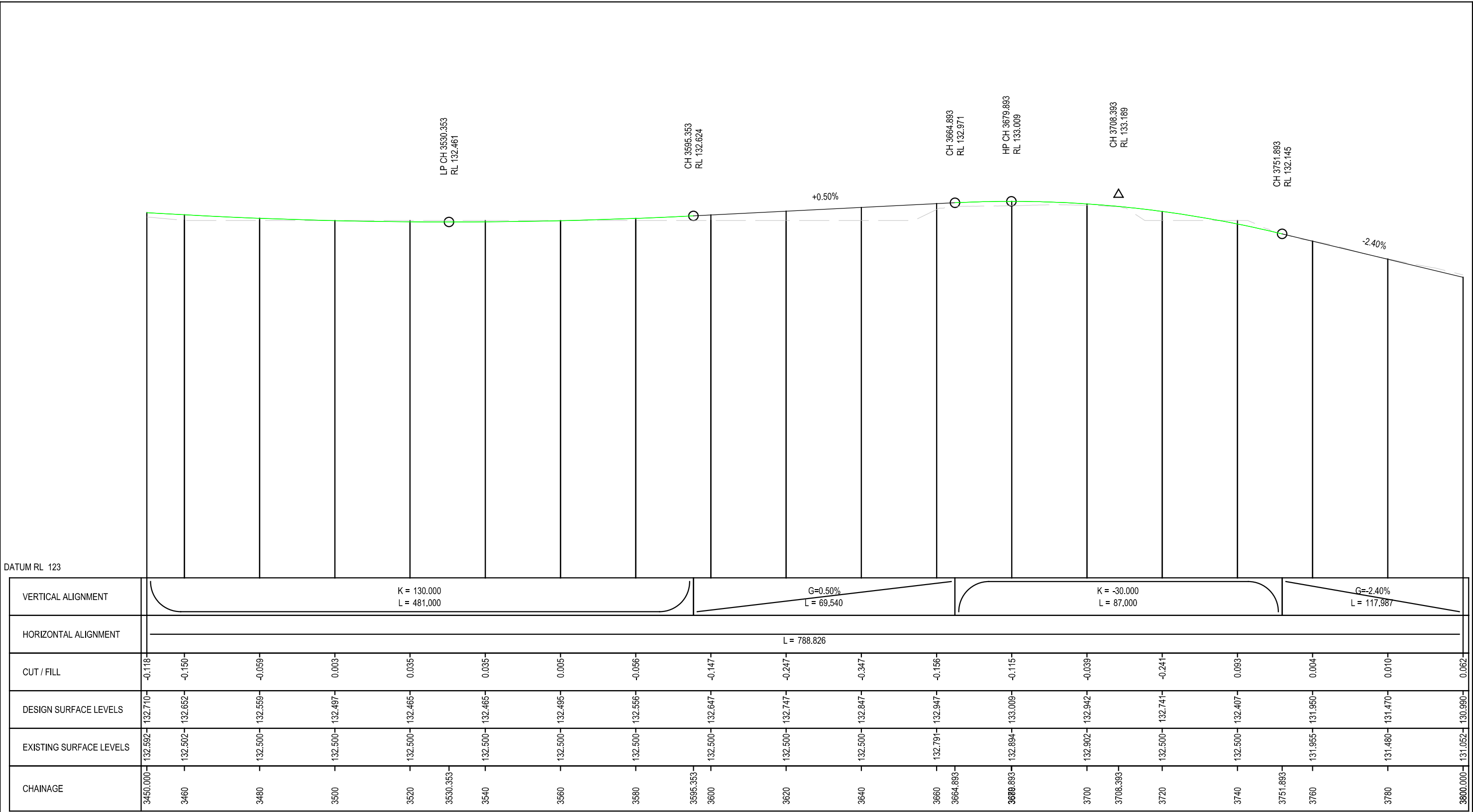
LONG SECTION MC01

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION MELTON HIGHWAY-MC01 SHEET 7				
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO							
B	AD	09.12.24	FINAL CONCEPT DESIGN										
A	AD	15.10.24	DRAFT CONCEPT DESIGN										
ISSUE	APP'D	DATE	AMENDMENT										
						CAT: PROJ: FILE: 30049249--7007.dgn		SCALE OF METRES HOR 0 20 40 VER 	FILE NO. 30049249	CONTRACT NO.	SHEET NO. 46	DRAWING NO. -7007	ISSUE C



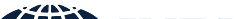
DATUM RL 123

LONG SECTION MC01

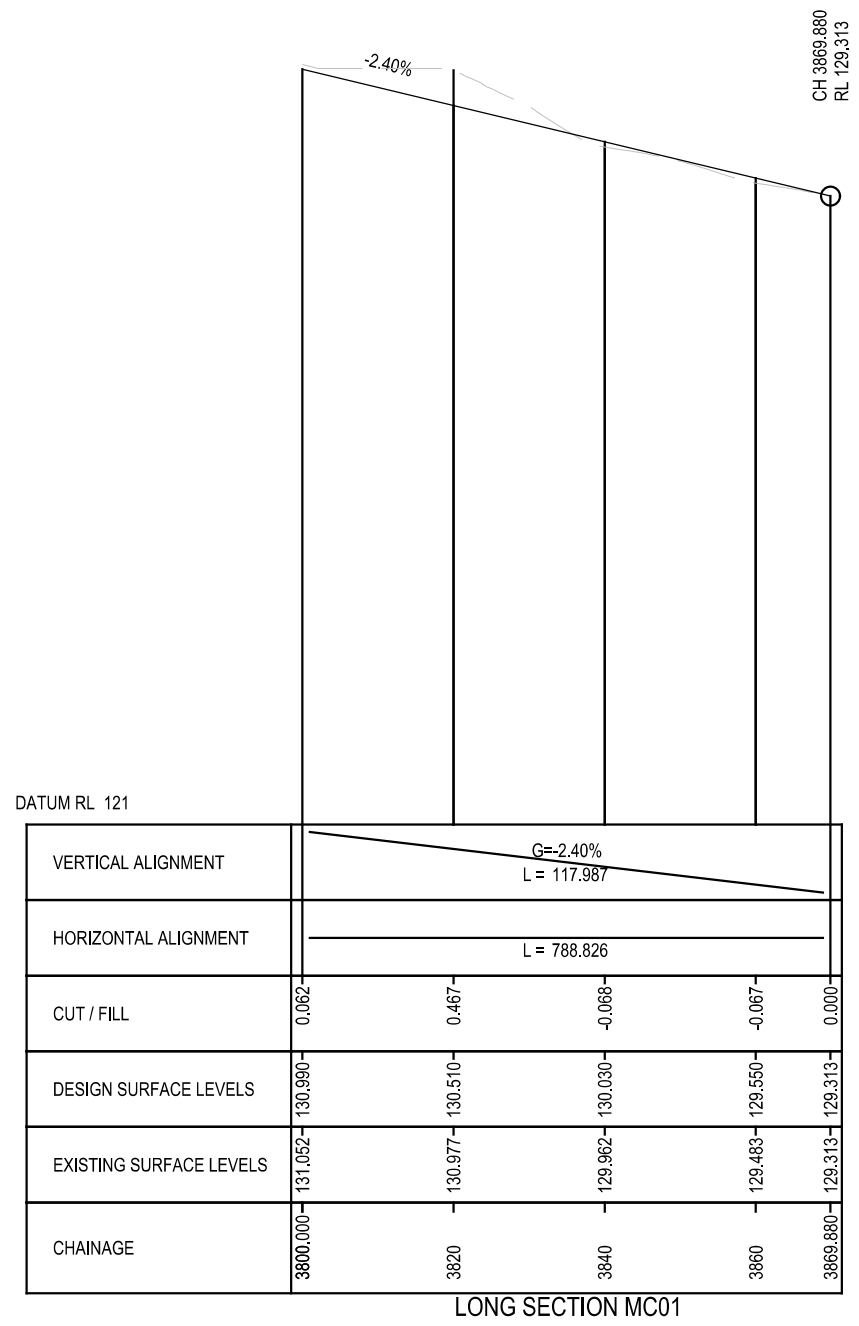
WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

**BEFORE
YOU DIG**
www.byda.com.au

FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION MELTON HIGHWAY-MC01 SHEET 8				
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO							
B	AD	09.12.24	FINAL CONCEPT DESIGN										
A	AD	15.10.24	DRAFT CONCEPT DESIGN										
ISSUE	APP'D	DATE	AMENDMENT										
						CAT: PROJ: FILE: 30049249--7008.dgn		SCALE OF METRES HOR 0 20 40 VER 	FILE NO. 30049249	CONTRACT NO.	SHEET NO. 47	DRAWING NO. -7008	ISSUE C

7/02/2025 1:07:50 PM Default 30049249--7009.dgn



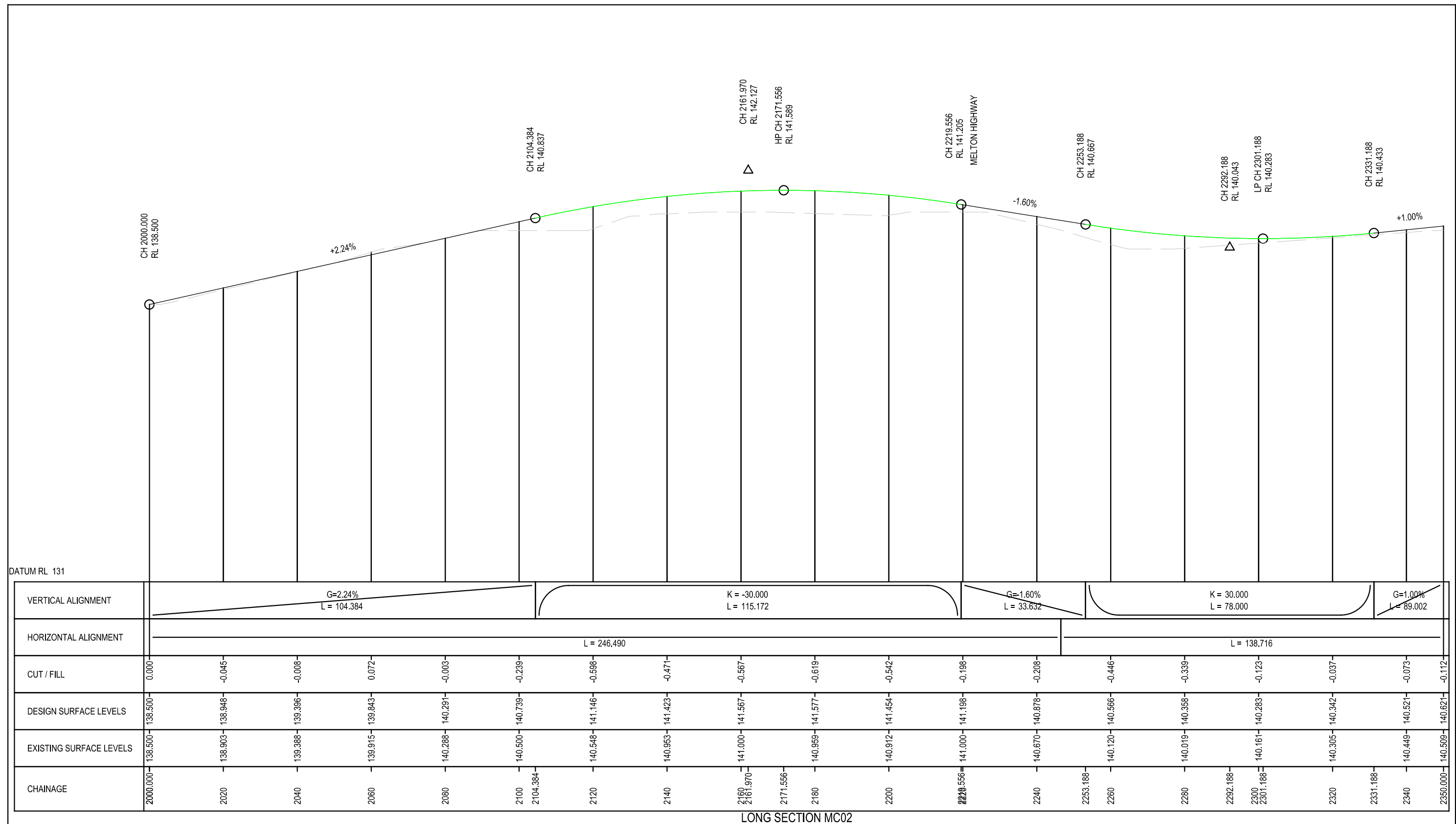
LONG SECTION MC01

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION MELTON HIGHWAY-MC01 SHEET 9				
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO							
B	AD	09.12.24	FINAL CONCEPT DESIGN										
A	AD	15.10.24	DRAFT CONCEPT DESIGN										
ISSUE	APP'D	DATE	AMENDMENT										
								FILE NO. 30049249		CONTRACT NO.	SHEET NO. 48	DRAWING NO. -7009	ISSUE C



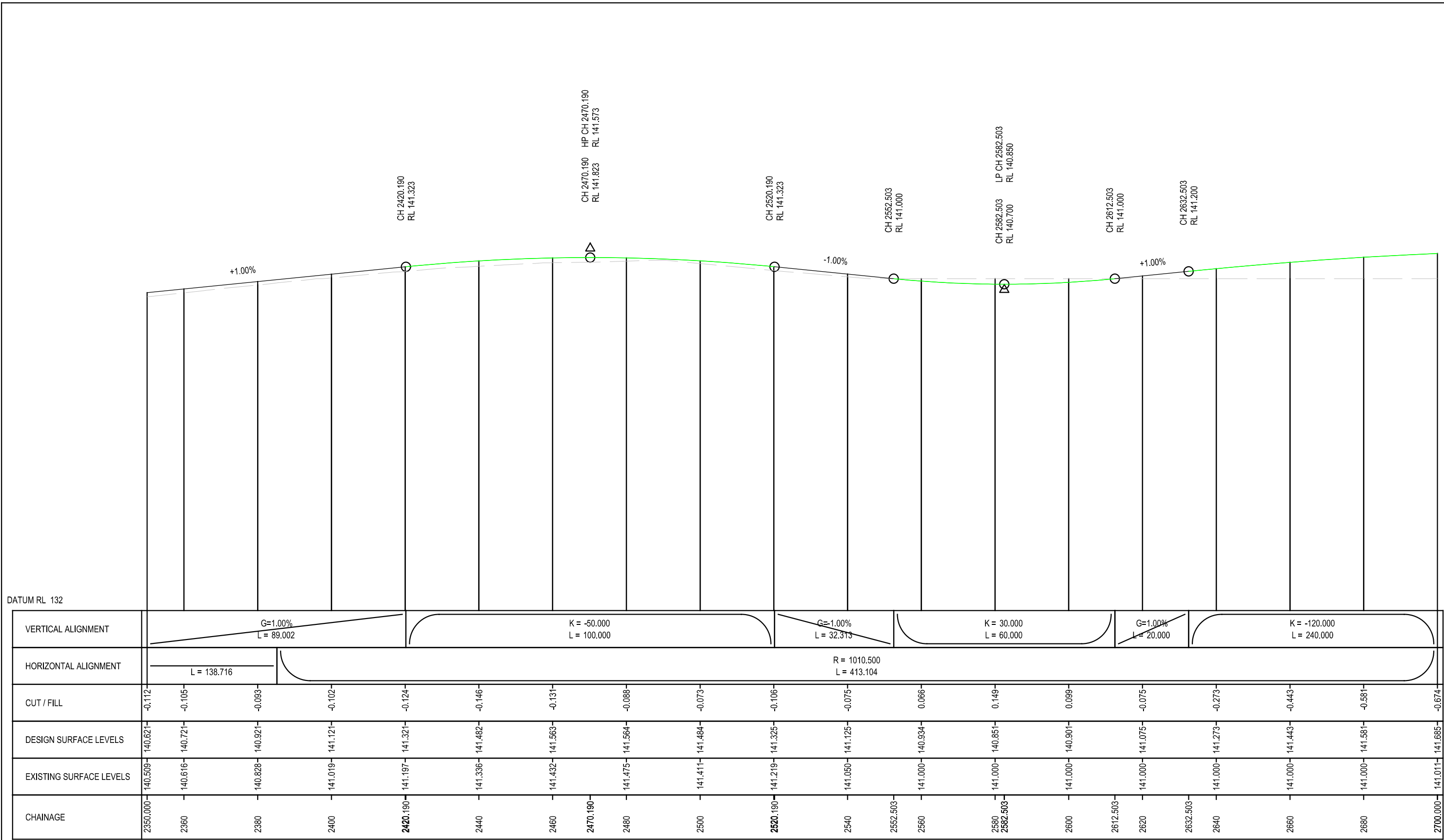
WARNING

BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 SMEC Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TARLETONS ROAD-MC02 SHEET 1				
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO							
B	AD	09.12.24	FINAL CONCEPT DESIGN			 SCALE OF METRES HOR 0 20 40 VER	CAT: PROJ: FILE: 30049249--7010.dgn		FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.	ISSUE
A	AD	15.10.24	DRAFT CONCEPT DESIGN				30049249			49	-7010	C	
ISSUE	APP'D	DATE	AMENDMENT										



DATUM RL 132

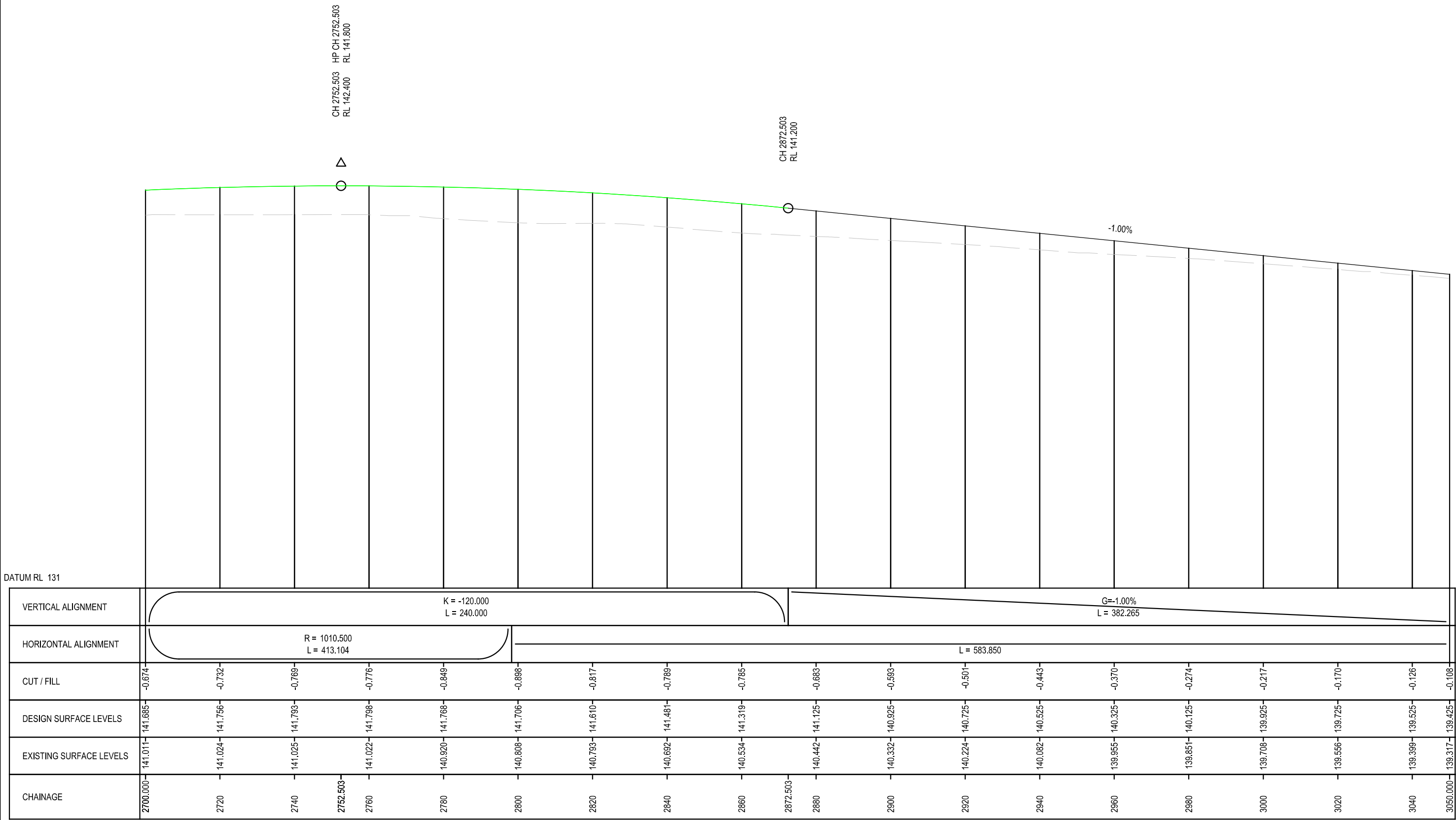
LONG SECTION MC02

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

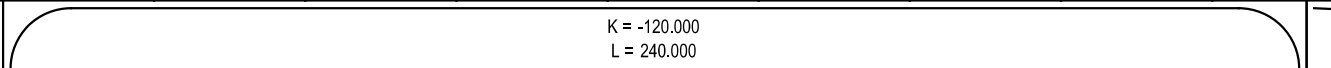
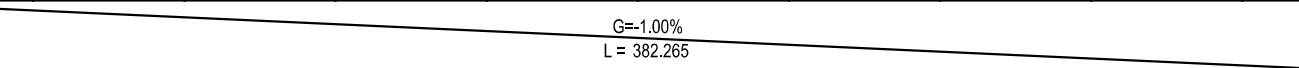
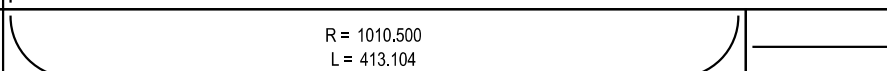
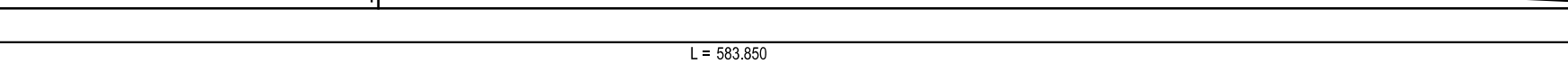


FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TARLETONS ROAD-MC02 SHEET 2 <table><tr><td>FILE NO.</td><td>CONTRACT NO.</td><td>SHEET NO.</td><td>DRAWING NO.</td><td>ISSUE</td></tr><tr><td>30049249</td><td></td><td>50</td><td>-7011</td><td>C</td></tr></table>					FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.	ISSUE	30049249		50	-7011	C
FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.			ISSUE																	
30049249		50	-7011			C																	
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO																	
B	AD	09.12.24	FINAL CONCEPT DESIGN																				
A	AD	15.10.24	DRAFT CONCEPT DESIGN																				
ISSUE	APP'D	DATE	AMENDMENT			CAT: PROJ: FILE: 30049249--7011.dgn		SCALE OF METRES HOR 0 20 40 VER															



DATUM RL 131

VERTICAL ALIGNMENT	 K = -120.000 L = 240.000										 G = -1.00% L = 382.265										
HORIZONTAL ALIGNMENT	 R = 1010.500 L = 413.104										 L = 583.850										
CUT / FILL	-0.874	-0.732	-0.769	-0.776	-0.849	-0.898	-0.817	-0.789	-0.785	-0.683	-0.593	-0.501	-0.443	-0.370	-0.274	-0.217	-0.170	-0.126	-0.108		
DESIGN SURFACE LEVELS	141.685	141.756	141.793	141.798	141.768	141.706	141.610	141.481	141.319	141.125	140.925	140.725	140.525	140.325	140.125	139.925	139.725	139.525	139.425		
EXISTING SURFACE LEVELS	141.011	141.024	141.025	141.022	140.920	140.808	140.793	140.692	140.534	140.442	140.332	140.224	140.082	139.955	139.851	139.708	139.556	139.399	139.317		
CHAINAGE	2700.000	2720	2740	2752.503	2760	2780	2800	2820	2840	2860	2872.503	2880	2900	2920	2940	2960	2980	3000	3020	3040	3050.000

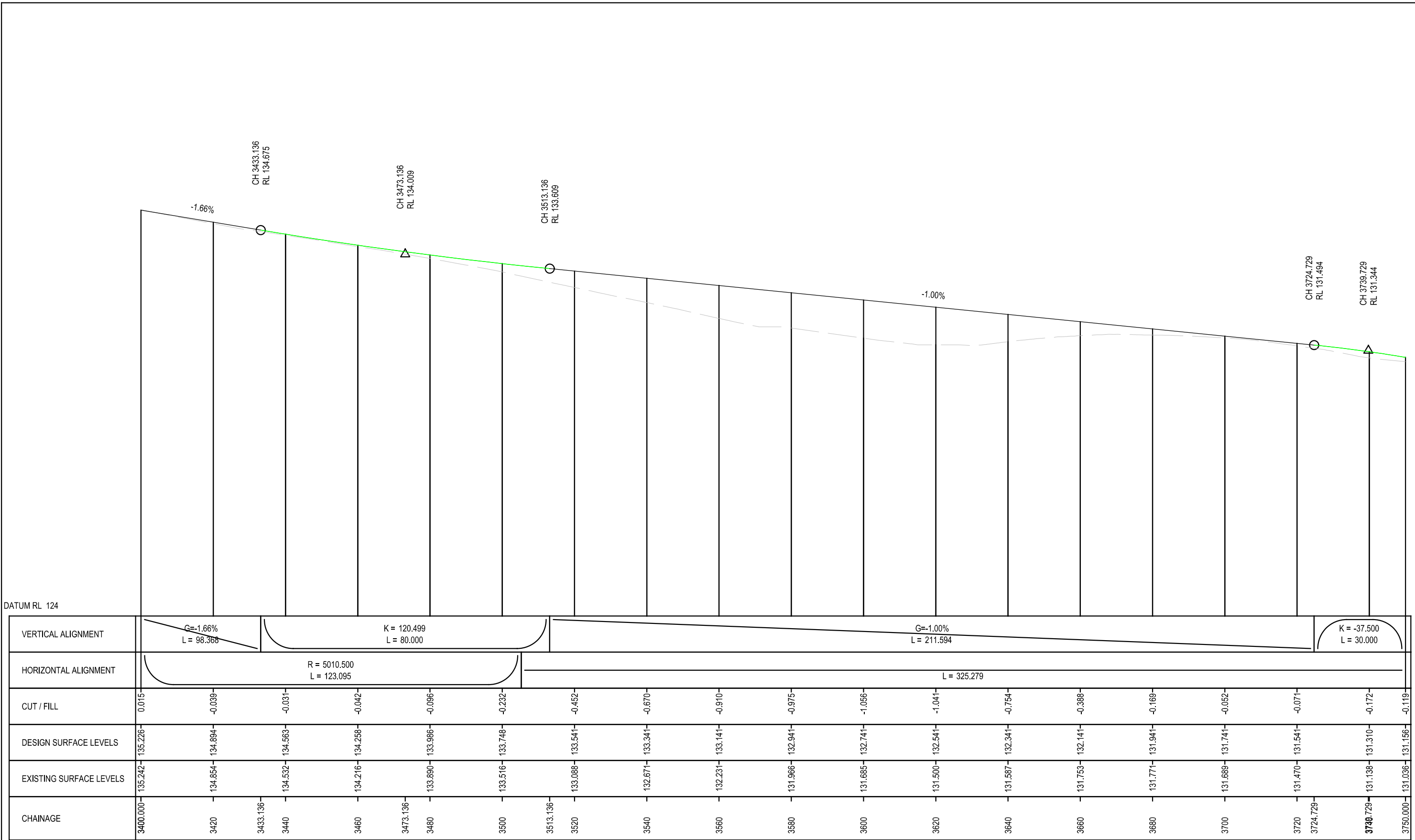
LONG SECTION MC02

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TARLETONS ROAD-MC02 SHEET 3				
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO							
B	AD	09.12.24	FINAL CONCEPT DESIGN										
A	AD	15.10.24	DRAFT CONCEPT DESIGN										
ISSUE	APP'D	DATE	AMENDMENT										
						CAT: PROJ: FILE: 30049249--7012.dgn							



LONG SECTION MC02

WARNING

BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE
APPROXIMATE ONLY AND THEIR EXACT POSITION
SHOULD BE PROVEN ON SITE. NO GUARANTEE IS
GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



**BEFORE
YOU DIG**
www.byda.com.au

FINAL DESIGN

ISSUE	APP'D	DATE	AMENDMENT
C	AD	17.01.25	FINAL CONCEPT DESIGN
B	AD	09.12.24	FINAL CONCEPT DESIGN
A	AD	15.10.24	DRAFT CONCEPT DESIGN

GENERAL NOTES



DESIGNED
H DADWAL

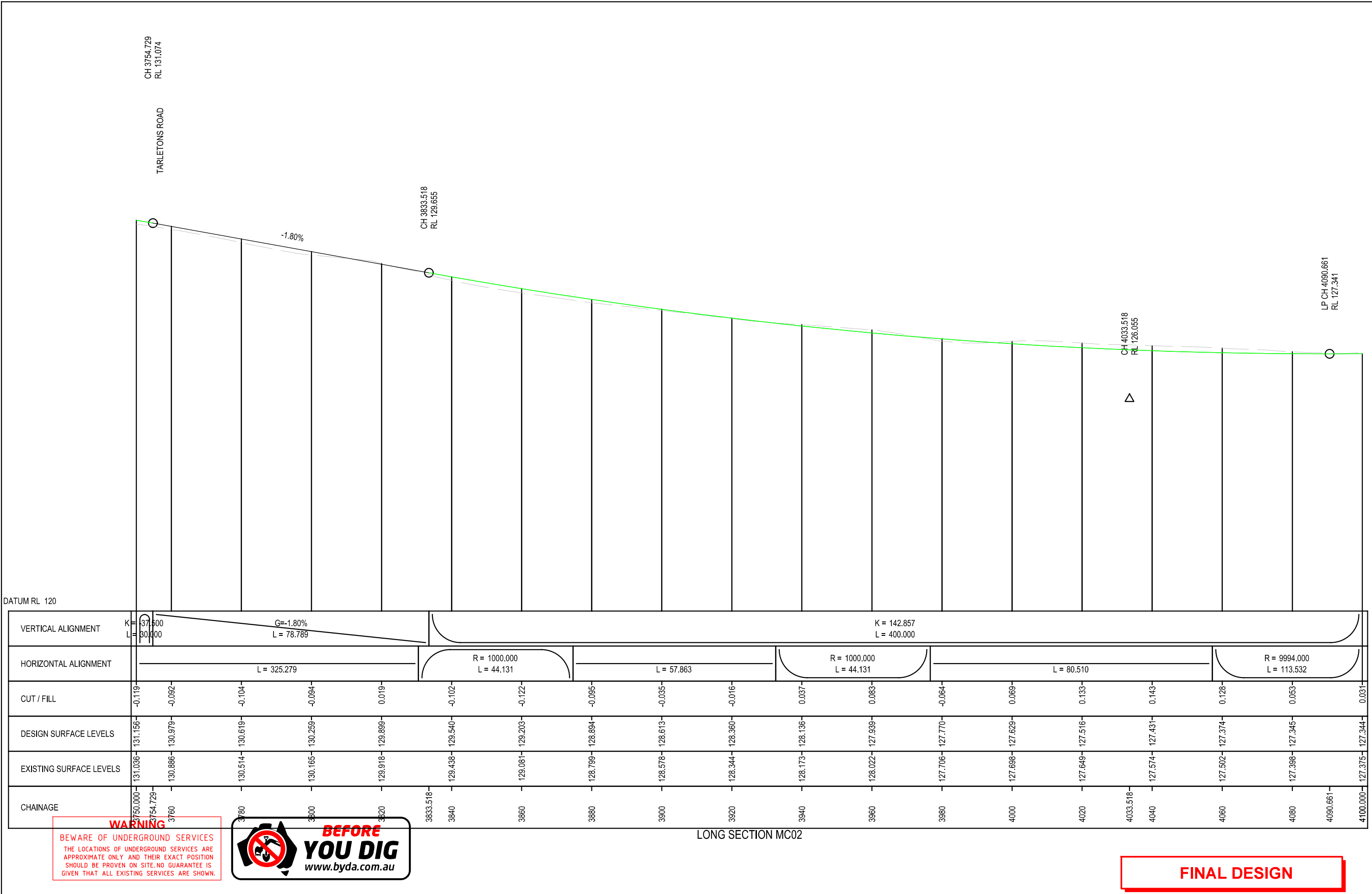
APPROVED
A DONATO

CAT:
PROJ:
FILE: 30049249--7014.dgn



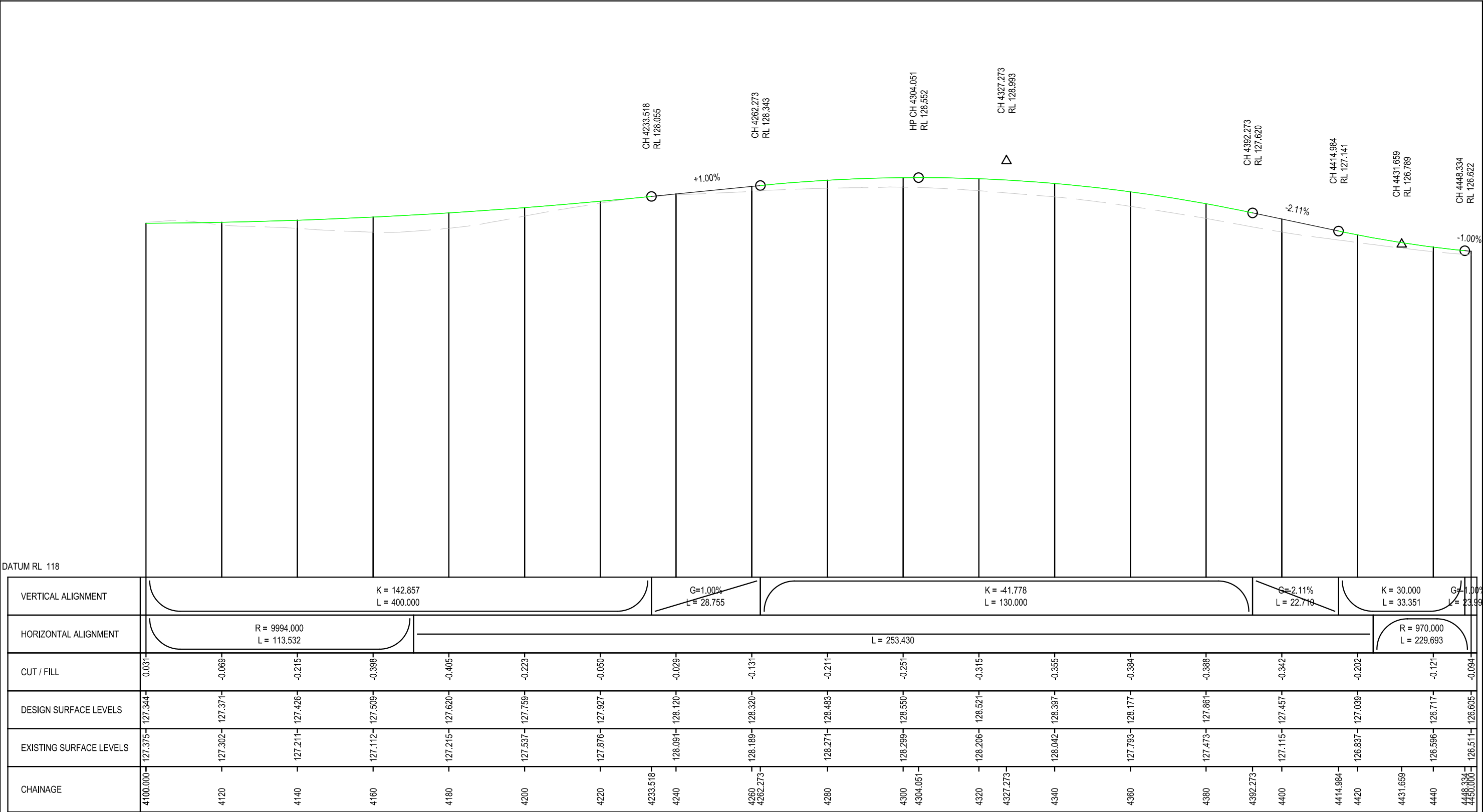
SCALE OF METRES
HOR 0 20 40
VER

MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TARLETONS ROAD-MC02 SHEET 5				
FILE NO. 30049249	CONTRACT NO.	SHEET NO. 53	DRAWING NO. -7014	ISSUE C



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TARLETONS ROAD-MC02 SHEET 6					
						APPROVED A DONATO								
						CAT: PROJ: FILE: 30049249--7015.dgn								
C	AD	17.01.25	FINAL CONCEPT DESIGN						FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.	ISSUE	
B	AD	09.12.24	FINAL CONCEPT DESIGN						30049249		54	-7015	C	
A	AD	15.10.24	DRAFT CONCEPT DESIGN											
ISSUE	APP'D	DATE	AMENDMENT											



VERTICAL ALIGNMENT		K = 142.857 L = 400.000										G=1.00% L = 28.755		K = -41.778 L = 130.000										G=-2.11% L = 22.710		K = 30.000 L = 33.351		G=1.00% L = 23.990	
HORIZONTAL ALIGNMENT		R = 9994.000 L = 113.532				L = 253.430																R = 970.000 L = 229.693							
CUT / FILL		0.031	-0.069	-0.215	-0.398	-0.405	-0.223	-0.050	-0.029	-0.131	-0.211	-0.251	-0.315	-0.355	-0.384	-0.388	-0.342	-0.202	-0.121	-0.094									
DESIGN SURFACE LEVELS		127.344	127.371	127.426	127.509	127.620	127.759	127.927	128.120	128.320	128.483	128.550	128.521	128.397	128.177	127.861	127.457	127.039	126.717	126.605									
EXISTING SURFACE LEVELS		127.375	127.302	127.211	127.112	127.215	127.537	127.876	128.091	128.189	128.271	128.299	128.206	128.042	127.793	127.473	127.115	126.837	126.596	126.511									
CHAINAGE		4100.000	4120	4140	4160	4180	4200	4220	4233.518	4240	4260	4262.273	4280	4300	4304.051	4320	4327.273	4340	4360	4380	4392.273	4400	4414.984	4420	4431.659	4440	4448.334	4450.000	

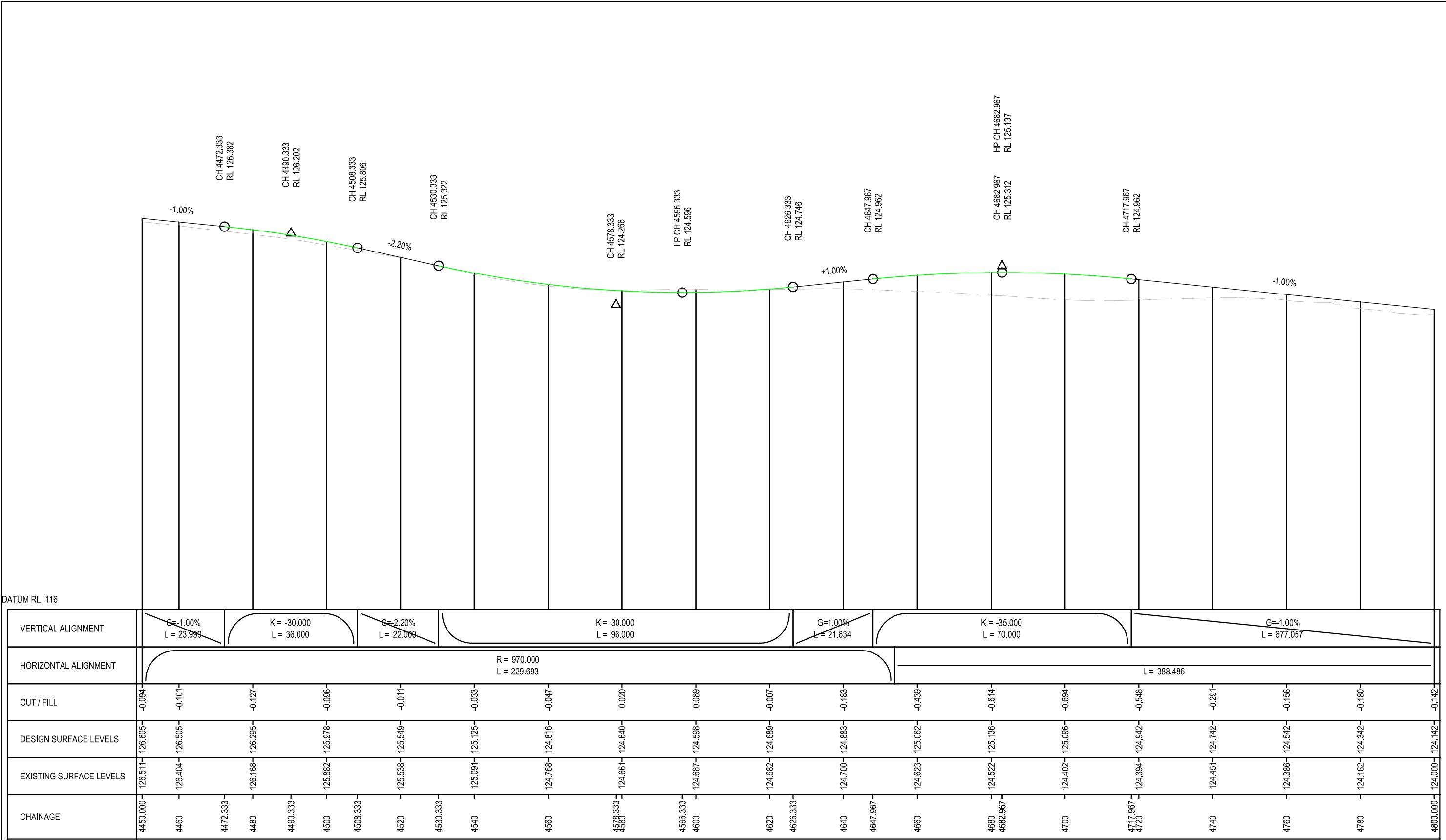
LONG SECTION MC02

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL	 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TARLETONS ROAD-MC02 SHEET 7				
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO						
B	AD	09.12.24	FINAL CONCEPT DESIGN									
A	AD	15.10.24	DRAFT CONCEPT DESIGN									
ISSUE	APP'D	DATE	AMENDMENT									
						CAT: PROJ: FILE: 30049249--7016.dgn	SCALE OF METRES HOR 0 20 40 VER 	FILE NO. 30049249	CONTRACT NO.	SHEET NO. 55	DRAWING NO. -7016	ISSUE C



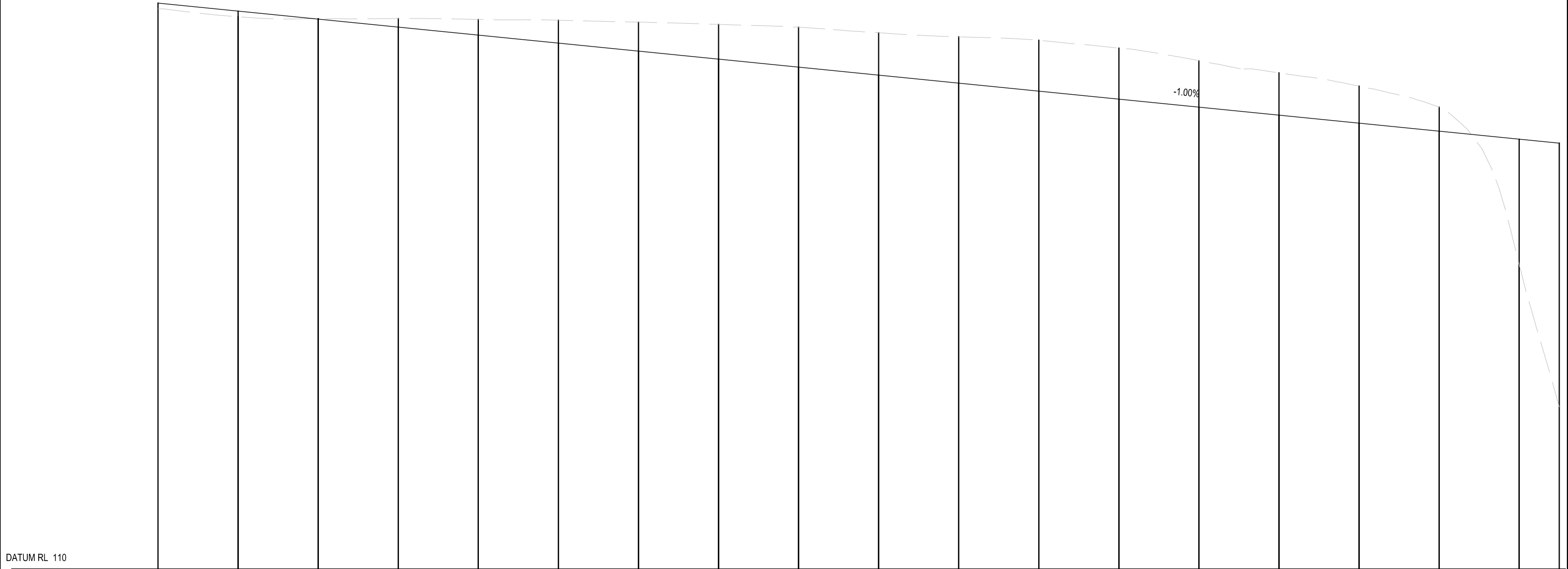
LONG SECTION MC02

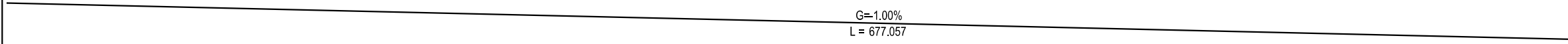
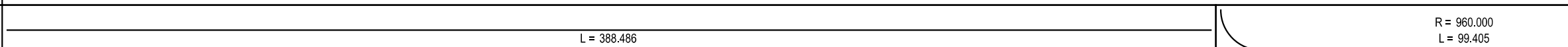
WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TARLETONS ROAD-MC02 SHEET 8 <table><tr><td>FILE NO.</td><td>CONTRACT NO.</td><td>SHEET NO.</td><td>DRAWING NO.</td><td>ISSUE</td></tr><tr><td>30049249</td><td></td><td>56</td><td>-7017</td><td>C</td></tr></table>					FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.	ISSUE	30049249		56	-7017	C
FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.			ISSUE																	
30049249		56	-7017			C																	
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO																	
B	AD	09.12.24	FINAL CONCEPT DESIGN																				
A	AD	15.10.24	DRAFT CONCEPT DESIGN																				
ISSUE	APP'D	DATE	AMENDMENT			CAT: PROJ: FILE: 30049249--7017.dgn		SCALE OF METRES HOR 0 20 40 VER															



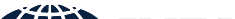
VERTICAL ALIGNMENT																				
HORIZONTAL ALIGNMENT																				
CUT / FILL	-0.142	-0.140	0.014	0.216	0.392	0.573	0.726	0.869	0.998	1.060	1.156	1.272	1.276	1.163	1.059	0.927	0.602	-3.132	-6.594	
DESIGN SURFACE LEVELS	124.142	123.942	123.742	123.542	123.342	123.142	122.942	122.742	122.542	122.342	122.142	121.942	121.742	121.542	121.342	121.142	120.942	120.742	120.642	
EXISTING SURFACE LEVELS	124.000	123.802	123.755	123.758	123.734	123.715	123.668	123.611	123.540	123.401	123.298	123.213	123.018	122.705	122.401	122.069	121.544	117.610	114.047	
CHAINAGE	4800.000	4820	4840	4860	4880	4900	4920	4940	4960	4980	5000	5020	5040	5060	5080	5100	5120	5140	5150.000	

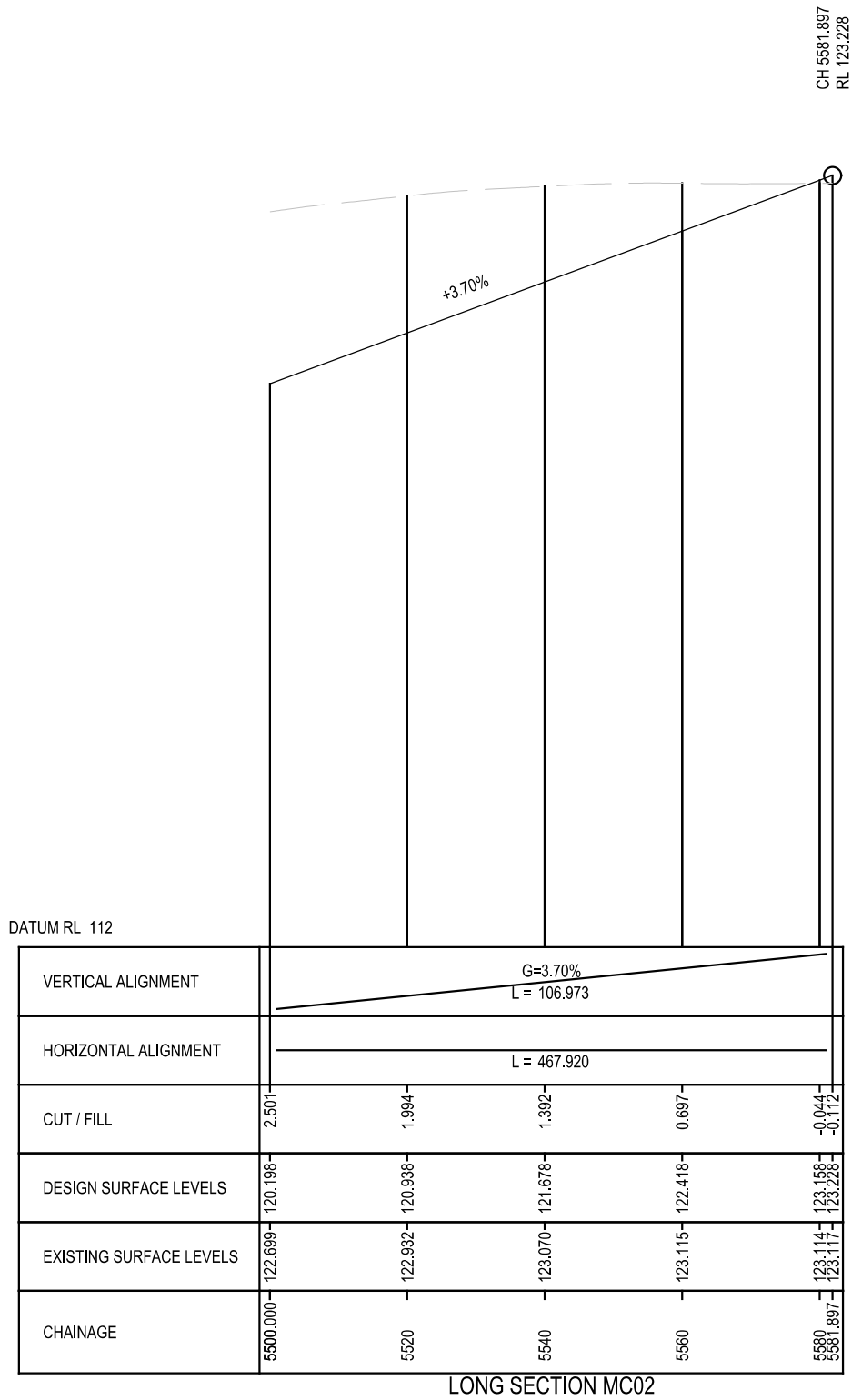
LONG SECTION MC02

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TARLETONS ROAD-MC02 SHEET 9					
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO								
B	AD	09.12.24	FINAL CONCEPT DESIGN											
A	AD	15.10.24	DRAFT CONCEPT DESIGN											
ISSUE	APP'D	DATE	AMENDMENT											
						CAT: PROJ: FILE: 30049249--7018.dgn		SCALE OF METRES HOR 0 20 40 VER 		FILE NO. 30049249	CONTRACT NO.	SHEET NO. 57	DRAWING NO. -7018	ISSUE C

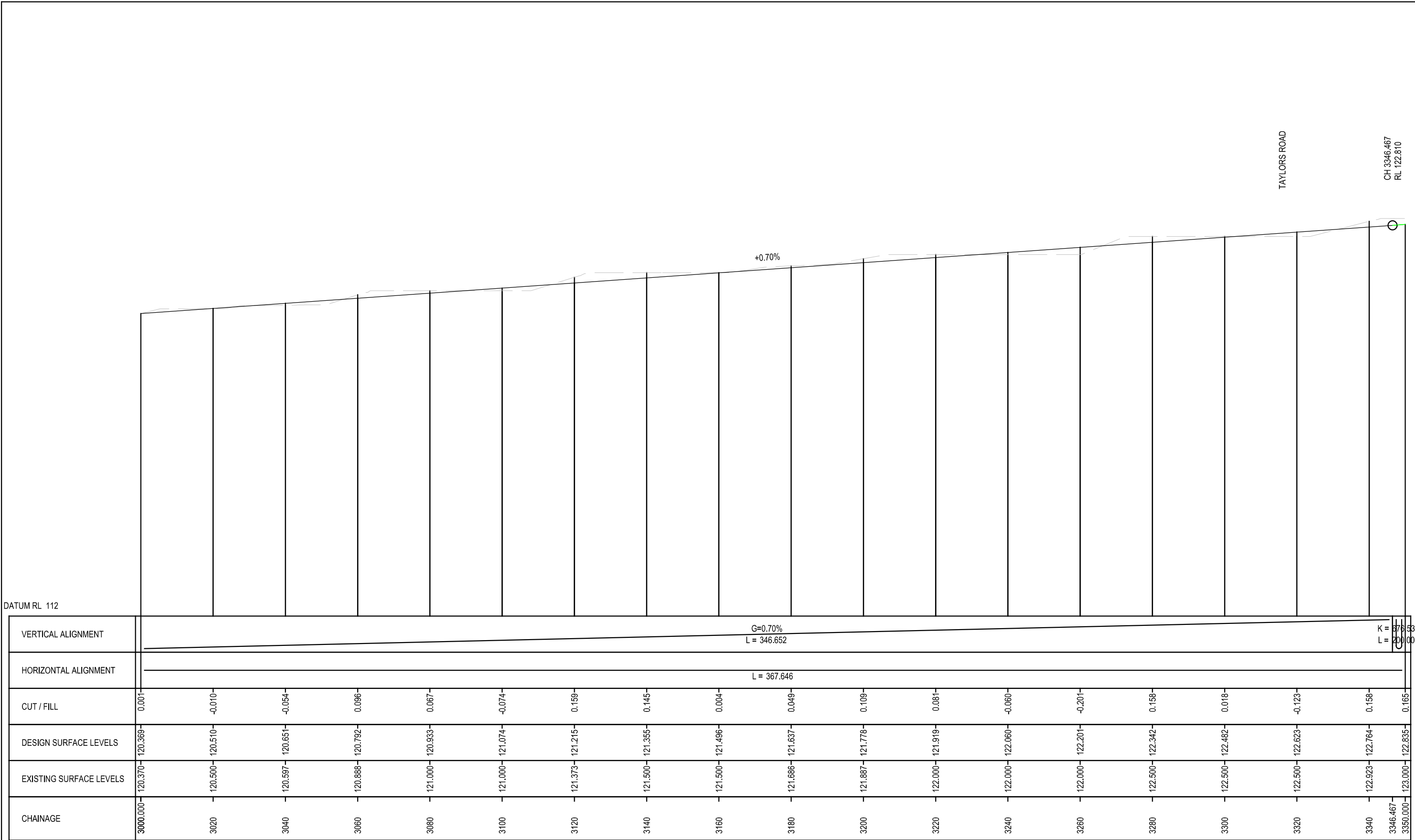


WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TARLETONS ROAD-MC02 SHEET 11																				
						APPROVED A DONATO																							
						CAT: PROJ: FILE: 30049249--7020.dgn																							
						SCALE OF METRES HOR 0 20 40 VER 		FILE NO. 30049249		CONTRACT NO.		SHEET NO. 59		DRAWING NO. -7020		ISSUE C													
C	AD	17.01.25	FINAL CONCEPT DESIGN																										
B	AD	09.12.24	FINAL CONCEPT DESIGN																										
A	AD	15.10.24	DRAFT CONCEPT DESIGN																										
ISSUE	APP'D	DATE	AMENDMENT																										



DATUM RL 112																				
VERTICAL ALIGNMENT		G=0.70% L = 346.652 K = 675.53 L = 200.00																		
HORIZONTAL ALIGNMENT		L = 367.646																		
CUT / FILL	0.001		-0.010	-0.054	0.096	0.067	-0.074	0.159	0.145	0.004	0.049	0.109	0.081	-0.060	-0.201	0.158	0.018	-0.123	0.158	0.165
DESIGN SURFACE LEVELS	120.369	120.510	120.651	120.792	120.933	121.074	121.215	121.355	121.496	121.637	121.778	121.919	122.060	122.201	122.342	122.482	122.623	122.764	122.835	
EXISTING SURFACE LEVELS	120.370	120.500	120.597	120.888	121.000	121.000	121.373	121.500	121.500	121.686	121.887	122.000	122.000	122.000	122.500	122.500	122.500	122.923	123.000	
CHAINAGE	3000.000	3020	3040	3060	3080	3100	3120	3140	3160	3180	3200	3220	3240	3260	3280	3300	3320	3340	3346.467	3350.000

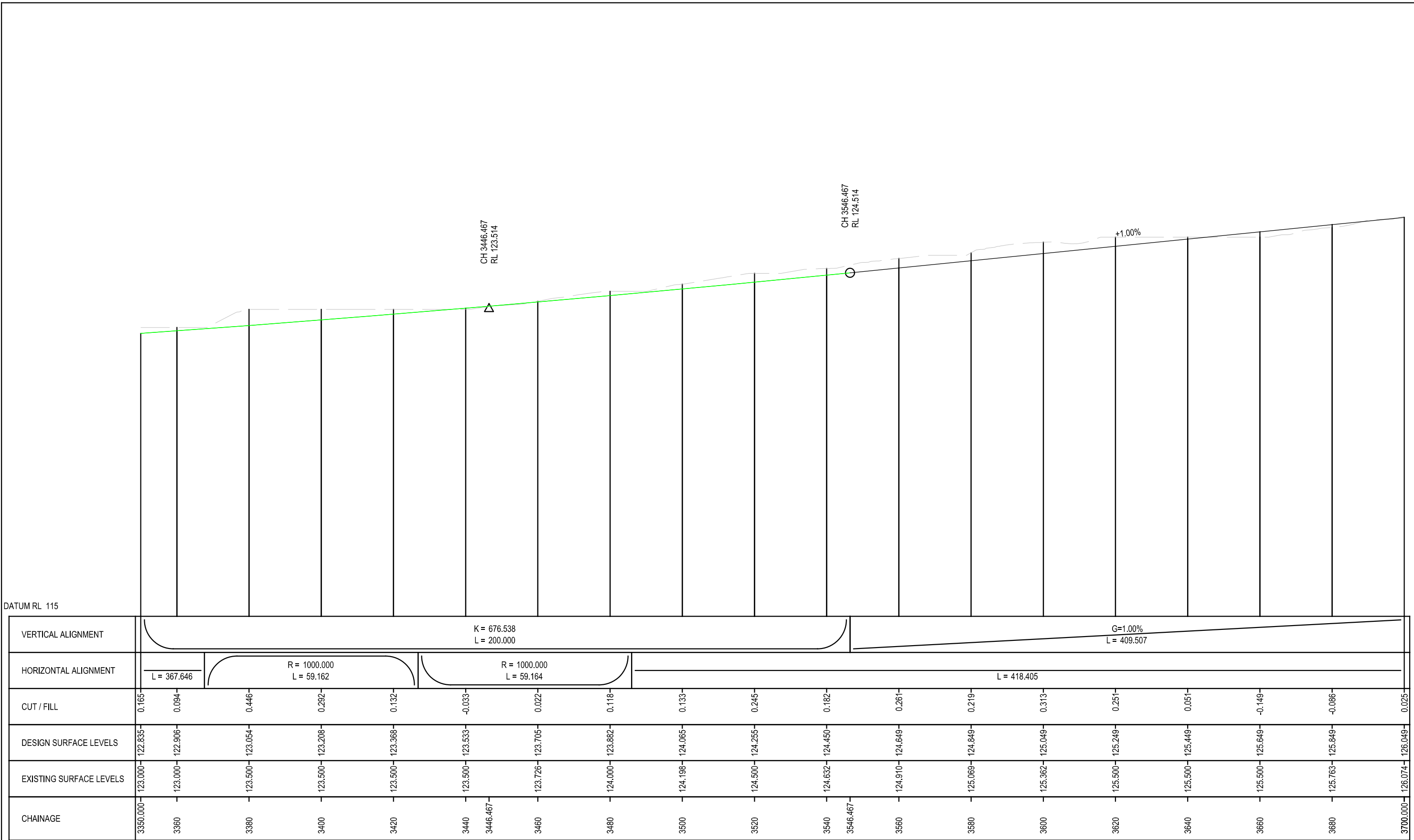
WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

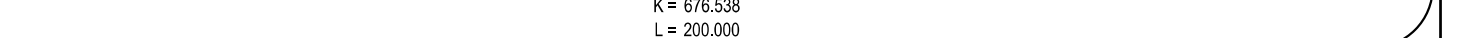
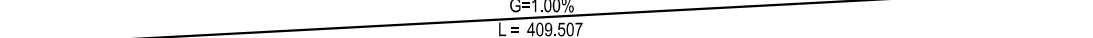
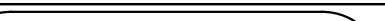


LONG SECTION MC03

FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION MOUNT COTTRELL-MC03 SHEET 1										
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO													
B	AD	09.12.24	FINAL CONCEPT DESIGN																
A	AD	15.10.24	DRAFT CONCEPT DESIGN			CAT: PROJ: FILE: 30049249--7021.dgn			SCALE OF METRES HOR 0 20 40 VER	FILE NO. 30049249	CONTRACT NO.	SHEET NO. 60	DRAWING NO. -7021	ISSUE C					
ISSUE	APP'D	DATE	AMENDMENT																



DATUM RL 115																					
VERTICAL ALIGNMENT																					
HORIZONTAL ALIGNMENT																					
CUT / FILL	0.165	0.094	0.446	0.292	0.132	-0.033	0.022	0.118	0.133	0.245	0.182	0.261	0.219	0.313	0.251	0.051	-0.149	-0.086	0.025		
DESIGN SURFACE LEVELS	122.835	122.906	123.054	123.208	123.368	123.533	123.705	123.882	124.065	124.255	124.450	124.649	124.849	125.049	125.249	125.449	125.649	125.849	126.049		
EXISTING SURFACE LEVELS	123.000	123.000	123.500	123.500	123.500	123.500	123.726	124.000	124.198	124.500	124.632	124.910	125.069	125.362	125.500	125.500	125.500	125.763	126.074		
CHAINAGE	3350.000	3360	3380	3400	3420	3440	3446.467	3460	3480	3500	3520	3540	3546.467	3560	3580	3600	3620	3640	3660	3680	3700.000

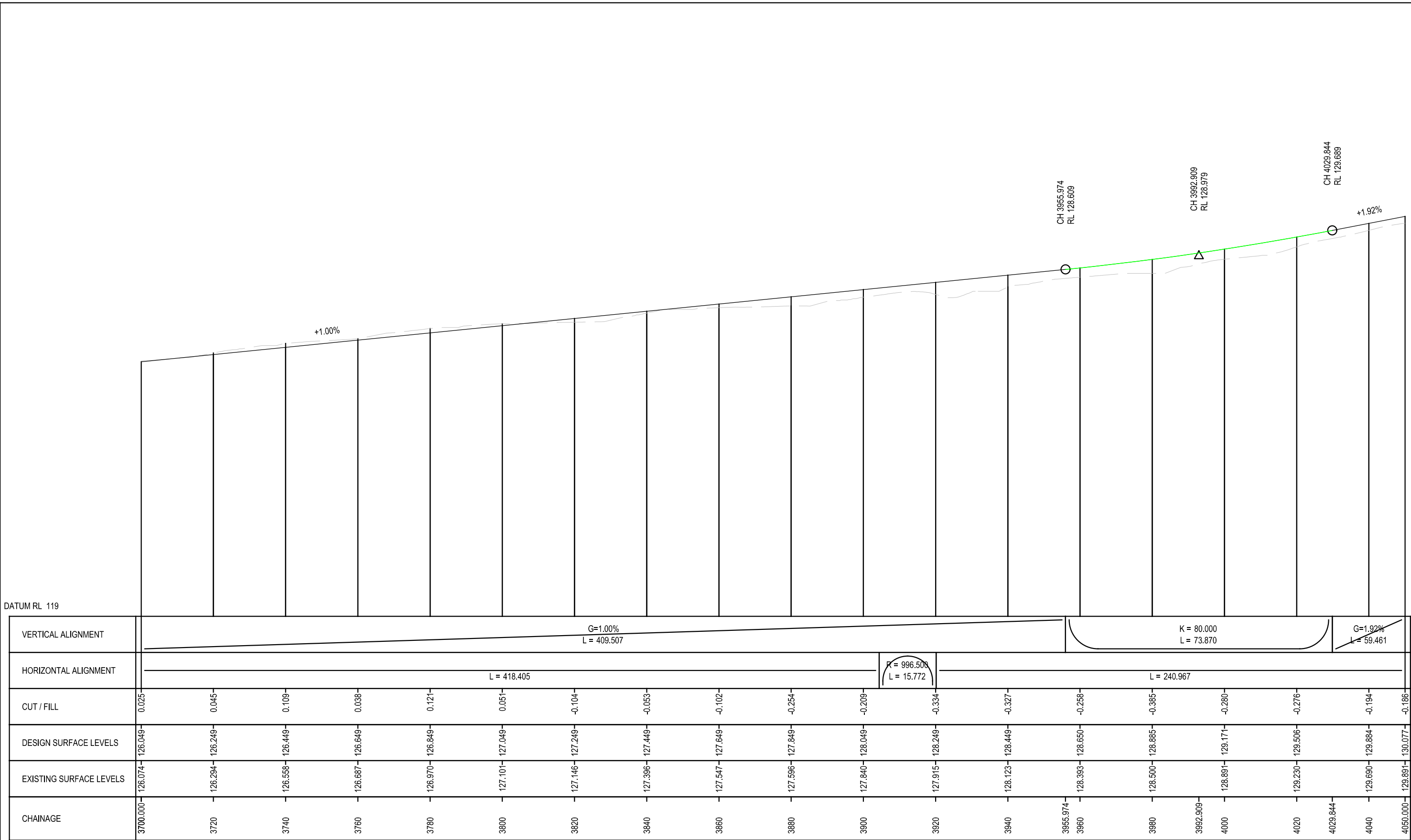
LONG SECTION MC03

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION MOUNT COTTRELL-MC03 SHEET 2 <table><tr><td>FILE NO.</td><td>CONTRACT NO.</td><td>SHEET NO.</td><td>DRAWING NO.</td><td>ISSUE</td></tr><tr><td>30049249</td><td></td><td>61</td><td>-7022</td><td>C</td></tr></table>					FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.	ISSUE	30049249		61	-7022	C
FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.			ISSUE																	
30049249		61	-7022			C																	
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO																	
B	AD	09.12.24	FINAL CONCEPT DESIGN																				
A	AD	15.10.24	DRAFT CONCEPT DESIGN																				
ISSUE	APP'D	DATE	AMENDMENT			CAT: PROJ: FILE: 30049249--7022.dgn		SCALE OF METRES HOR 0 20 40 VER															



VERTICAL ALIGNMENT	G=1.00% L = 409.507															K = 80.000 L = 73.870		G=1.92% L = 59.461
HORIZONTAL ALIGNMENT	L = 418.405															L = 240.967		
CUT / FILL	0.025	0.045	0.109	0.038	0.121	0.051	-0.104	-0.053	-0.102	-0.254	-0.209	-0.334	-0.327	-0.258	-0.385	-0.280	-0.276	-0.194
DESIGN SURFACE LEVELS	126.049	126.249	126.449	126.649	126.849	127.049	127.249	127.449	127.649	127.849	128.049	128.249	128.449	128.650	128.885	129.171	129.506	129.884
EXISTING SURFACE LEVELS	126.074	126.294	126.558	126.687	126.970	127.101	127.146	127.396	127.547	127.596	127.840	127.915	128.123	128.393	128.500	128.891	129.230	129.690
CHAINAGE	3700.000	3720	3740	3760	3780	3800	3820	3840	3860	3880	3900	3920	3940	3955.974	3992.909	4000	4020	4029.844

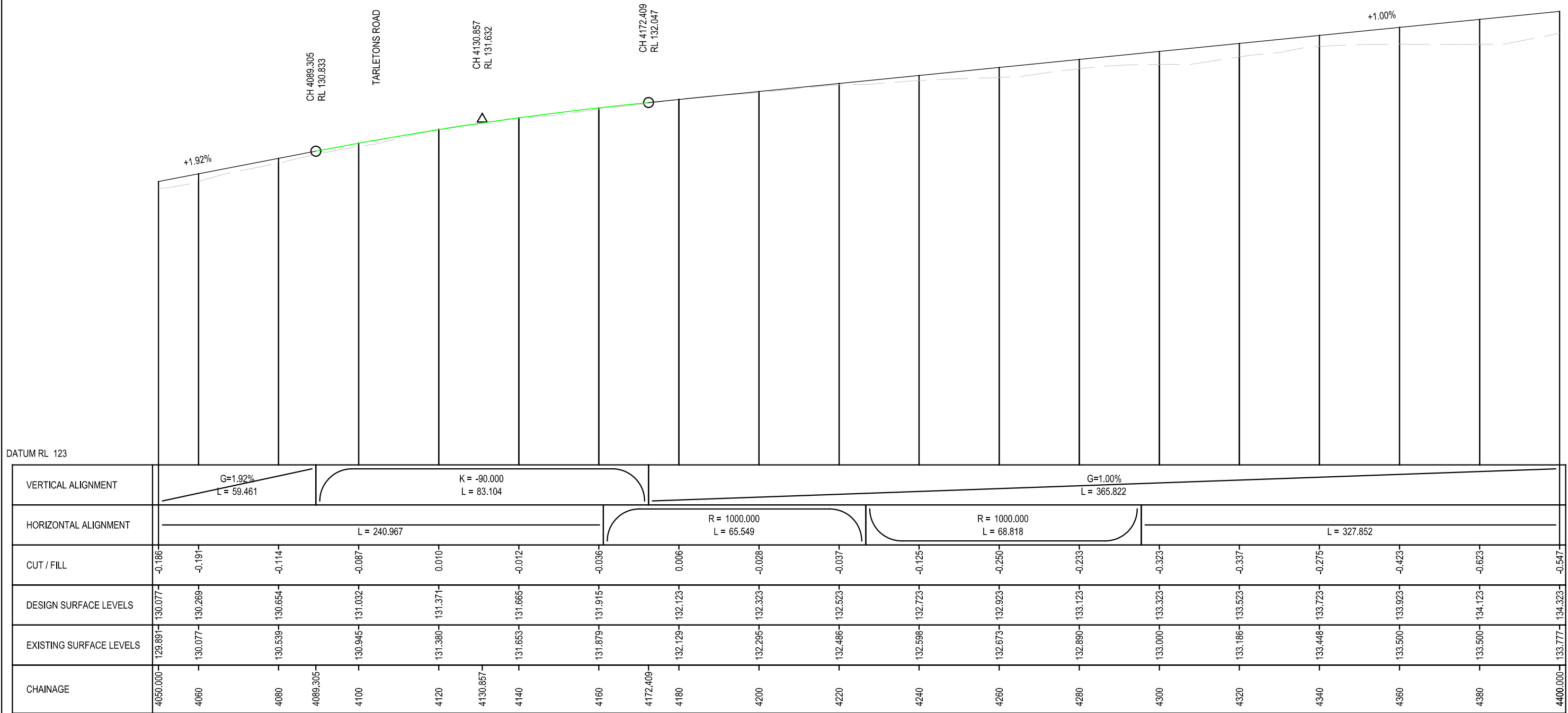
LONG SECTION MC03

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL	 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION MOUNT COTTRELL-MC03 SHEET 3 <table><tr><td>FILE NO.</td><td>CONTRACT NO.</td><td>SHEET NO.</td><td>DRAWING NO.</td><td>ISSUE</td></tr><tr><td>30049249</td><td></td><td>62</td><td>-7023</td><td>C</td></tr></table>					FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.	ISSUE	30049249		62	-7023	C
FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.			ISSUE																
30049249		62	-7023			C																
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO																
B	AD	09.12.24	FINAL CONCEPT DESIGN																			
A	AD	15.10.24	DRAFT CONCEPT DESIGN																			
ISSUE	APP'D	DATE	AMENDMENT	CAT: PROJ: FILE: 30049249--7023.dgn	SCALE OF METRES HOR 0 20 40 VER																	



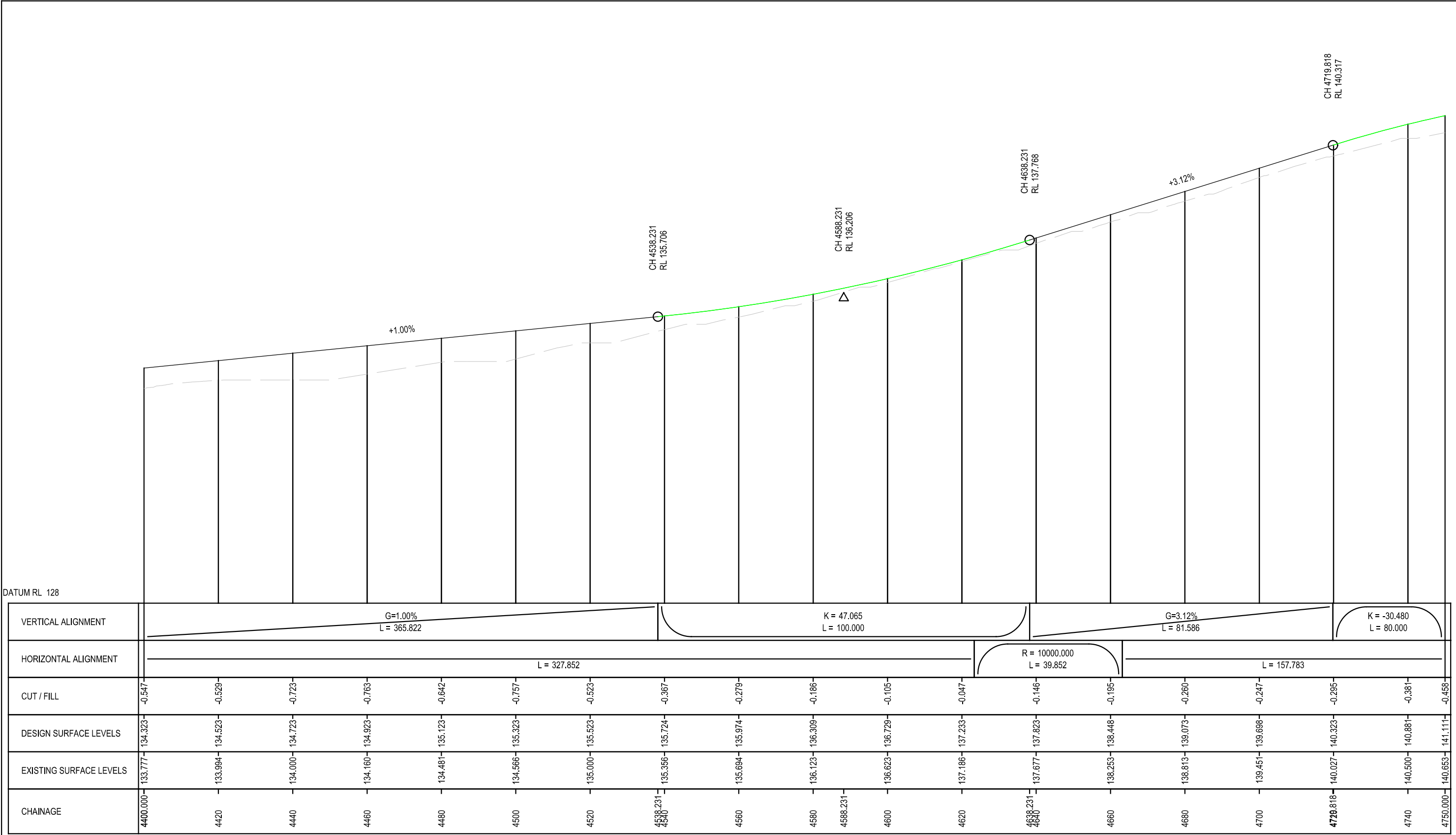
LONG SECTION MC03

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE
APPROXIMATE ONLY AND THEIR EXACT POSITION
SHOULD BE PROVEN ON SITE. NO GUARANTEE IS
GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION MOUNT COTTRELL-MC03 SHEET 4								
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO											
B	AD	09.12.24	FINAL CONCEPT DESIGN														
A	AD	15.10.24	DRAFT CONCEPT DESIGN						CAT: PROJ: FILE: 30049249--7024.dgn		SCALE OF METRES HOR 0 20 40 VER		FILE NO. 30049249	CONTRACT NO.	SHEET NO. 63	DRAWING NO. -7024	ISSUE C
ISSUE	APP'D	DATE	AMENDMENT														



LONG SECTION MC03

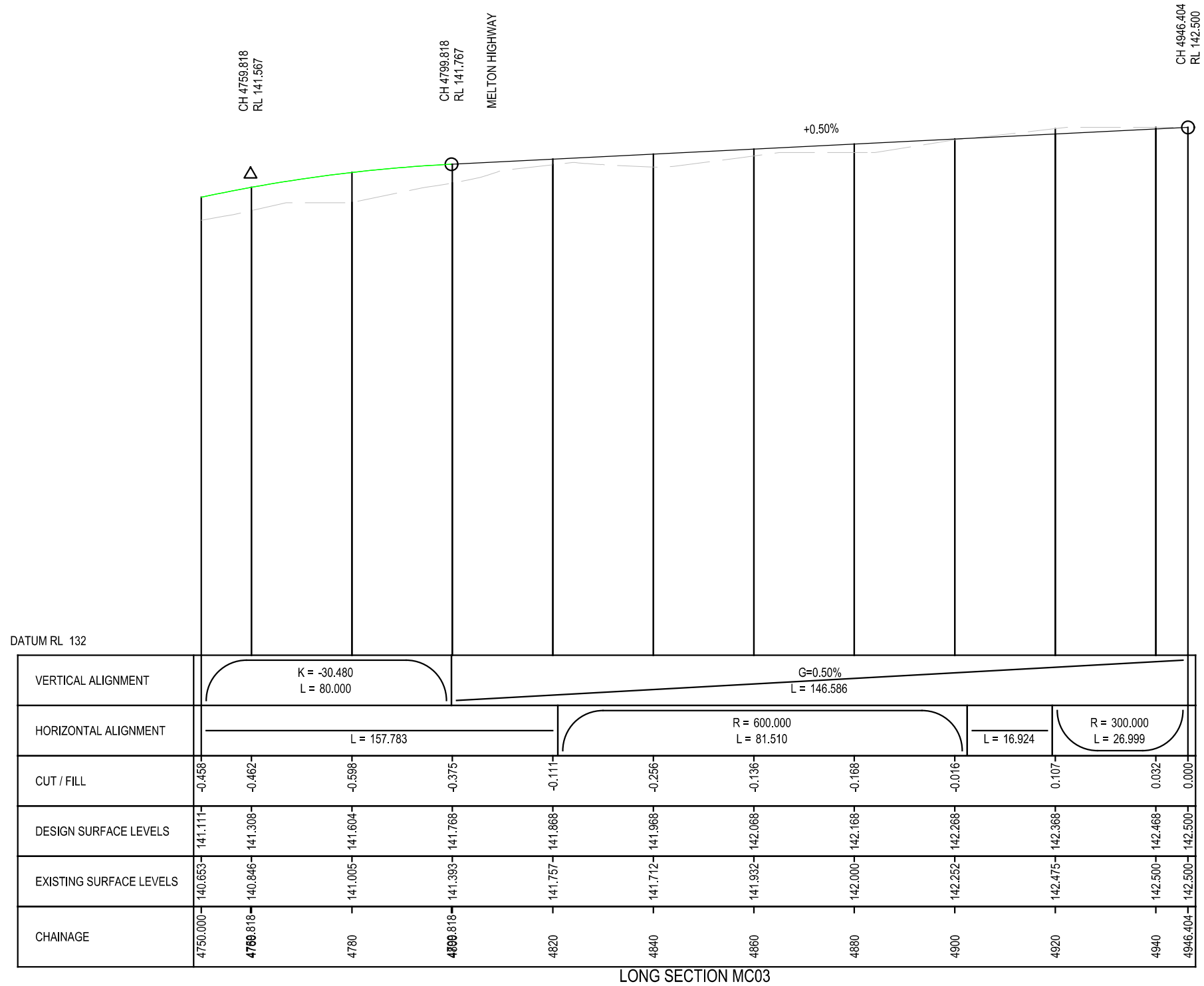
WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION MOUNT COTTRELL-MC03 SHEET 5					
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO								
B	AD	09.12.24	FINAL CONCEPT DESIGN											
A	AD	15.10.24	DRAFT CONCEPT DESIGN											
ISSUE	APP'D	DATE	AMENDMENT											
						CAT: PROJ: FILE: 30049249--7025.dgn		SCALE OF METRES HOR 0 20 40 VER		FILE NO. 30049249	CONTRACT NO.	SHEET NO. 64	DRAWING NO. -7025	ISSUE C

7/02/2025 1:08:01 PM Default 30049249--7026.dgn

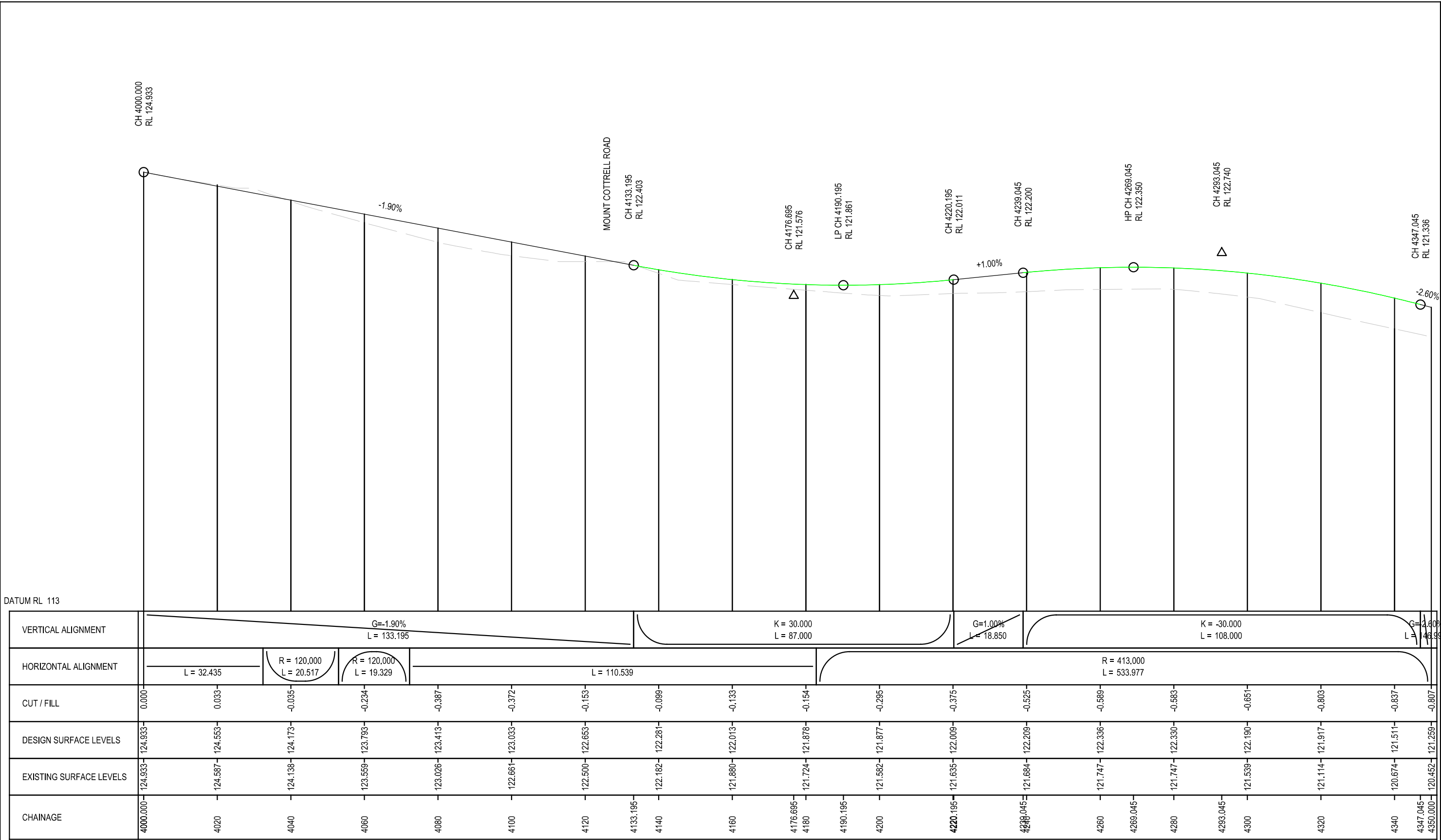


WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION MOUNT COTTRELL-MC03 SHEET 6					
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO								
B	AD	09.12.24	FINAL CONCEPT DESIGN											
A	AD	15.10.24	DRAFT CONCEPT DESIGN											
ISSUE	APP'D	DATE	AMENDMENT											
														CAT: PROJ: FILE: 30049249--7026.dgn

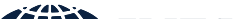


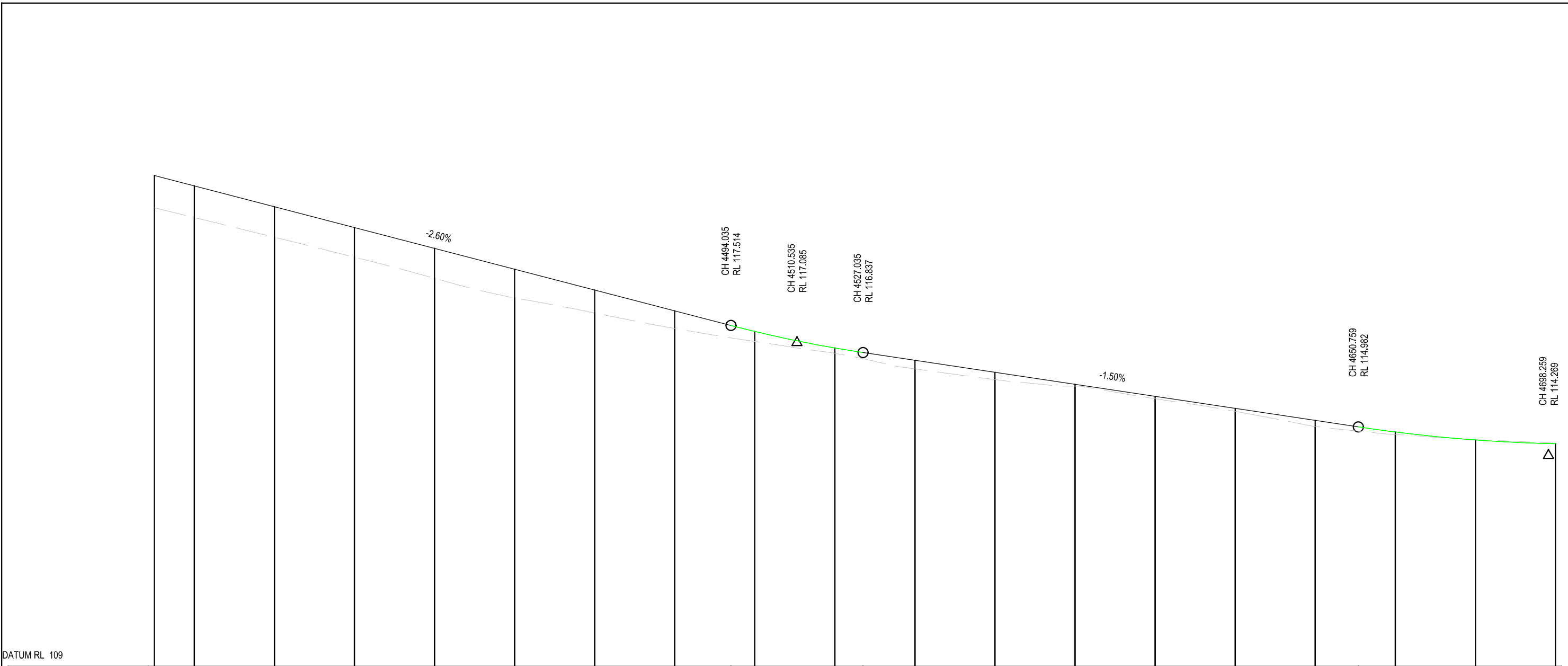
LONG SECTION MC04

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

**BEFORE
YOU DIG**
www.byda.com.au

FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TAYLORS ROAD-MC04 SHEET 1					
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO								
B	AD	09.12.24	FINAL CONCEPT DESIGN											
A	AD	15.10.24	DRAFT CONCEPT DESIGN											
ISSUE	APP'D	DATE	AMENDMENT											
						CAT: PROJ: FILE: 30049249--7027.dgn		SCALE OF METRES HOR 0 20 40 VER 		FILE NO. 30049249	CONTRACT NO.	SHEET NO. 66	DRAWING NO. -7027	ISSUE C



VERTICAL ALIGNMENT	G=-2.60% L = 146.990										K = 30.000 L = 33.000		G=-1.50% L = 123.724										K = 38.000 L = 95.000		
HORIZONTAL ALIGNMENT	R = 413.000 L = 533.977																								
CUT / FILL	-0.807	-0.790	-0.762	-0.741	-0.748	-0.719	-0.572	-0.440	-0.250	-0.131	-0.213	-0.180	-0.043	-0.057	-0.072	-0.151	-0.063	0.006	0.015						
DESIGN SURFACE LEVELS	121.259	120.999	120.479	119.959	119.439	118.919	118.399	117.879	117.365	116.951	116.643	116.343	116.043	115.743	115.443	115.143	114.854	114.655	114.562						
EXISTING SURFACE LEVELS	120.452	120.209	119.717	119.218	118.691	118.199	117.827	117.439	117.114	116.820	116.430	116.162	116.000	115.686	115.371	114.992	114.791	114.661	114.577						
CHAINAGE	4350.000	4360	4380	4400	4420	4440	4460	4480	4494.035	4500	4510.535	4520	4527.035	4540	4560	4580	4600	4620	4640	4650.759	4660	4680	4698.259	4700.000	

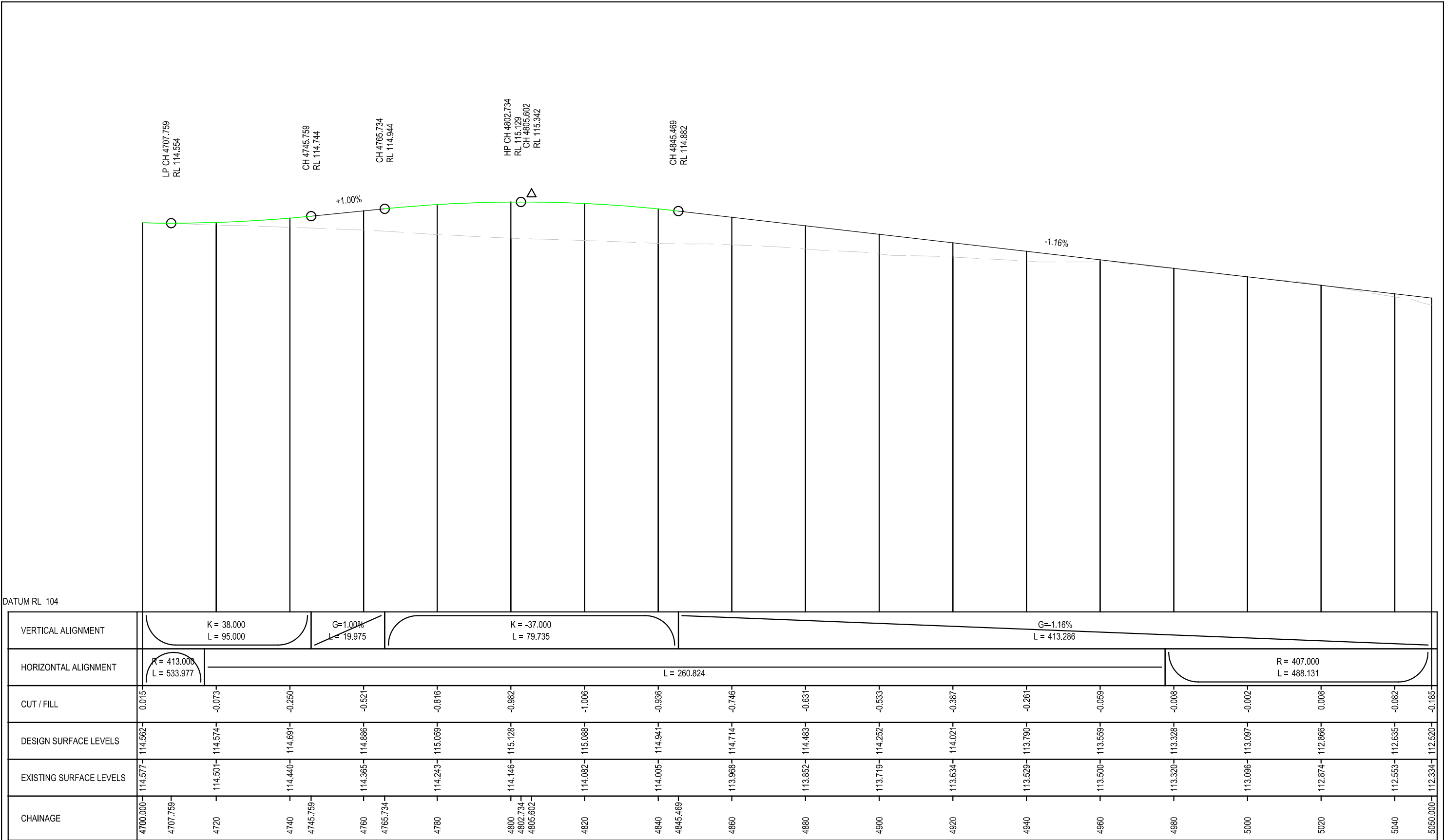
LONG SECTION MC04

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TAYLORS ROAD-MC04 SHEET 2				
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO							
B	AD	09.12.24	FINAL CONCEPT DESIGN			CAT: PROJ: FILE: 30049249--7028.dgn SCALE OF METRES HOR 0 20 40 VER							
A	AD	15.10.24	DRAFT CONCEPT DESIGN										
ISSUE	APP'D	DATE	AMENDMENT										



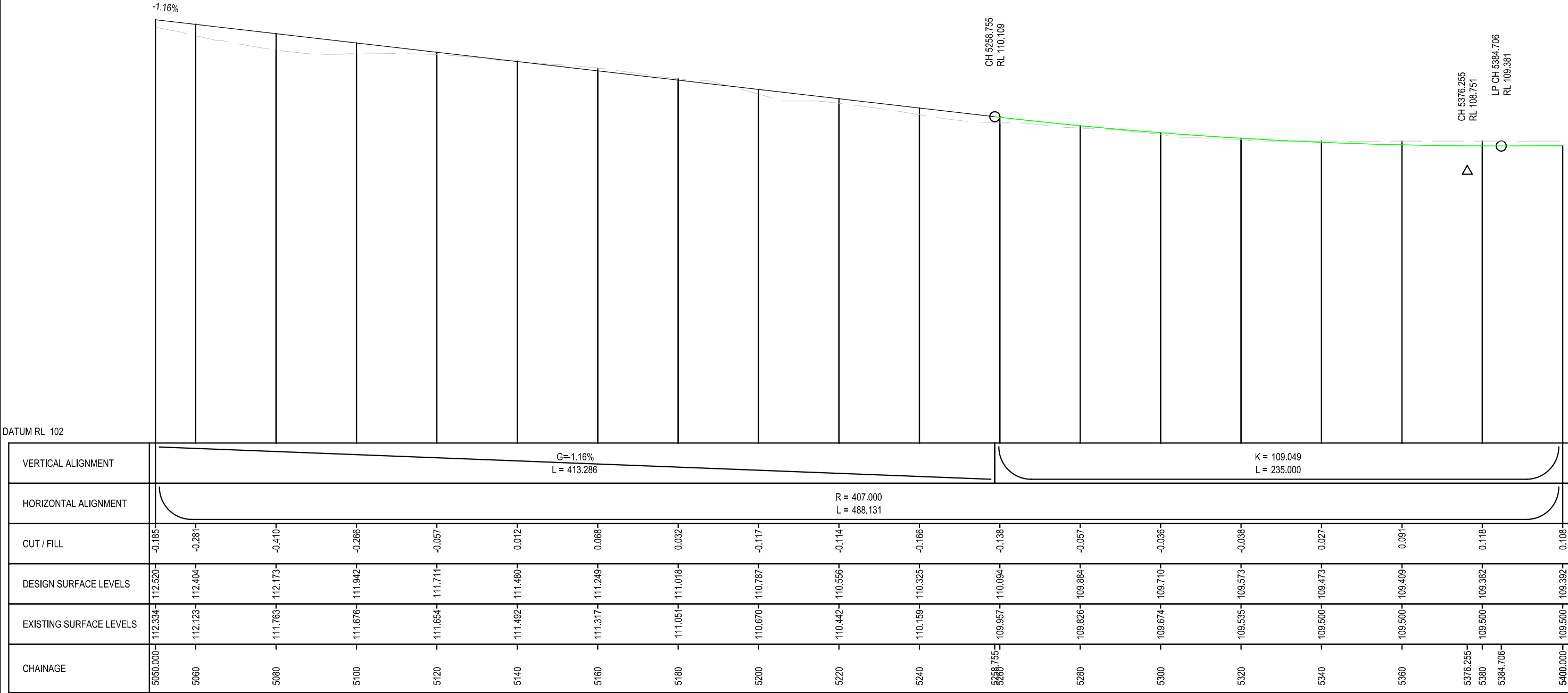
LONG SECTION MC04

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TAYLORS ROAD-MC04 SHEET 3 <table><tr><td>FILE NO.</td><td>CONTRACT NO.</td><td>SHEET NO.</td><td>DRAWING NO.</td><td>ISSUE</td></tr><tr><td>30049249</td><td></td><td>68</td><td>-7029</td><td>C</td></tr></table>					FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.	ISSUE	30049249		68	-7029	C
FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.			ISSUE																	
30049249		68	-7029			C																	
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO																	
B	AD	09.12.24	FINAL CONCEPT DESIGN																				
A	AD	15.10.24	DRAFT CONCEPT DESIGN																				
ISSUE	APP'D	DATE	AMENDMENT			CAT: PROJ: FILE: 30049249--7029.dgn		SCALE OF METRES HOR 0 20 40 VER															

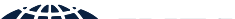


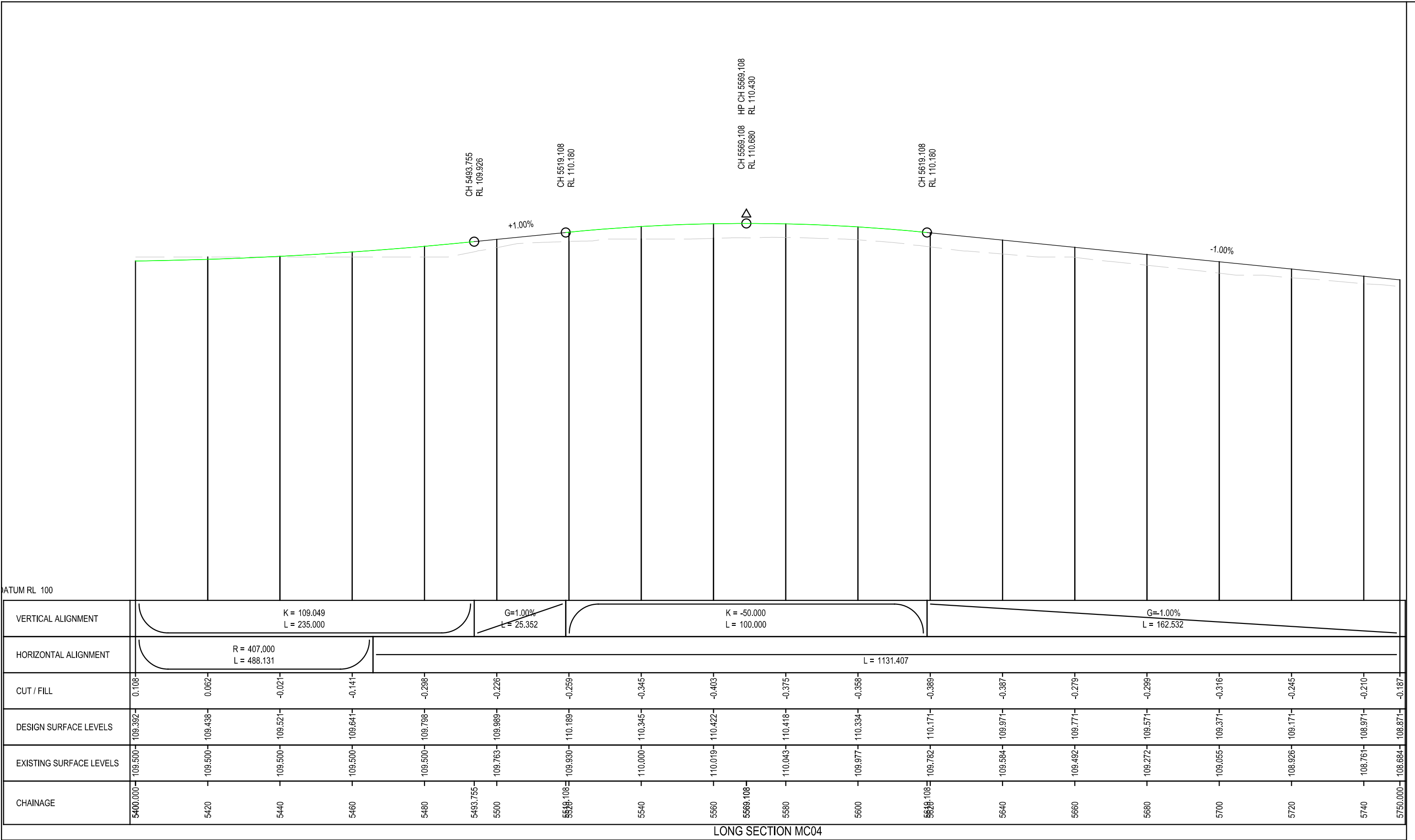
LONG SECTION MC04

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TAYLORS ROAD-MC04 SHEET 4						
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO									
B	AD	09.12.24	FINAL CONCEPT DESIGN			CAT: PROJ: FILE: 30049249--7030.dgn								SCALE OF METRES HOR 0 20 40 VER	
A	AD	15.10.24	DRAFT CONCEPT DESIGN												
ISSUE	APP'D	DATE	AMENDMENT												
				FILE NO. 30049249		CONTRACT NO.		SHEET NO. 69		DRAWING NO. -7030		ISSUE C			



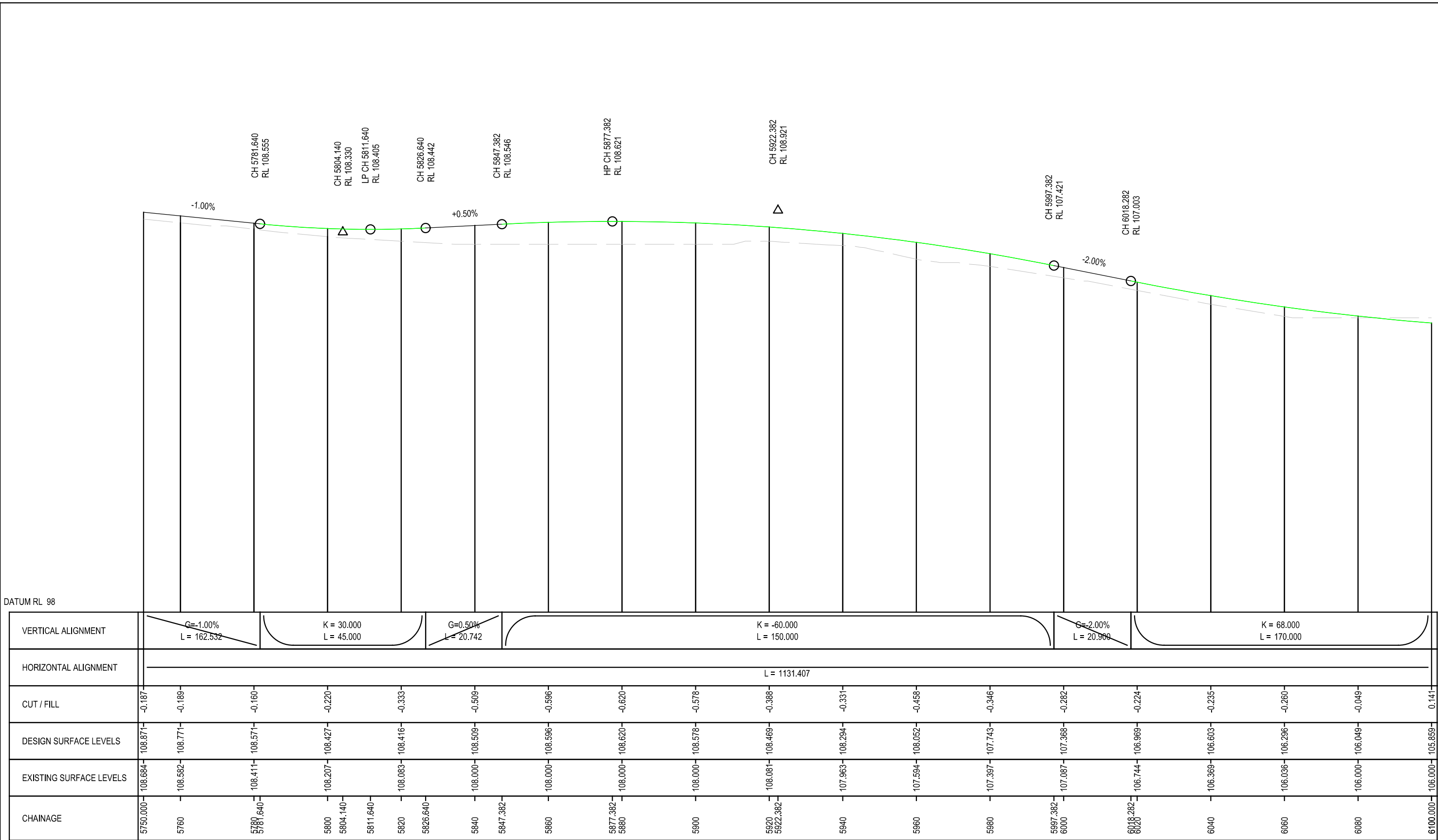
WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

BEFORE YOU DIG
www.byda.com.au

FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TAYLORS ROAD-MC04 SHEET 5								
						APPROVED A DONATO											
C	AD	17.01.25	FINAL CONCEPT DESIGN						CAT: PROJ: FILE: 30049249--7031.dgn		SCALE OF METRES HOR 0 20 40 VER		FILE NO. 30049249	CONTRACT NO.	SHEET NO. 70	DRAWING NO. -7031	ISSUE C
B	AD	09.12.24	FINAL CONCEPT DESIGN														
A	AD	15.10.24	DRAFT CONCEPT DESIGN														
ISSUE	APP'D	DATE	AMENDMENT														

7/02/2025 1:08:02 PM Default 30049249--7031.dgn



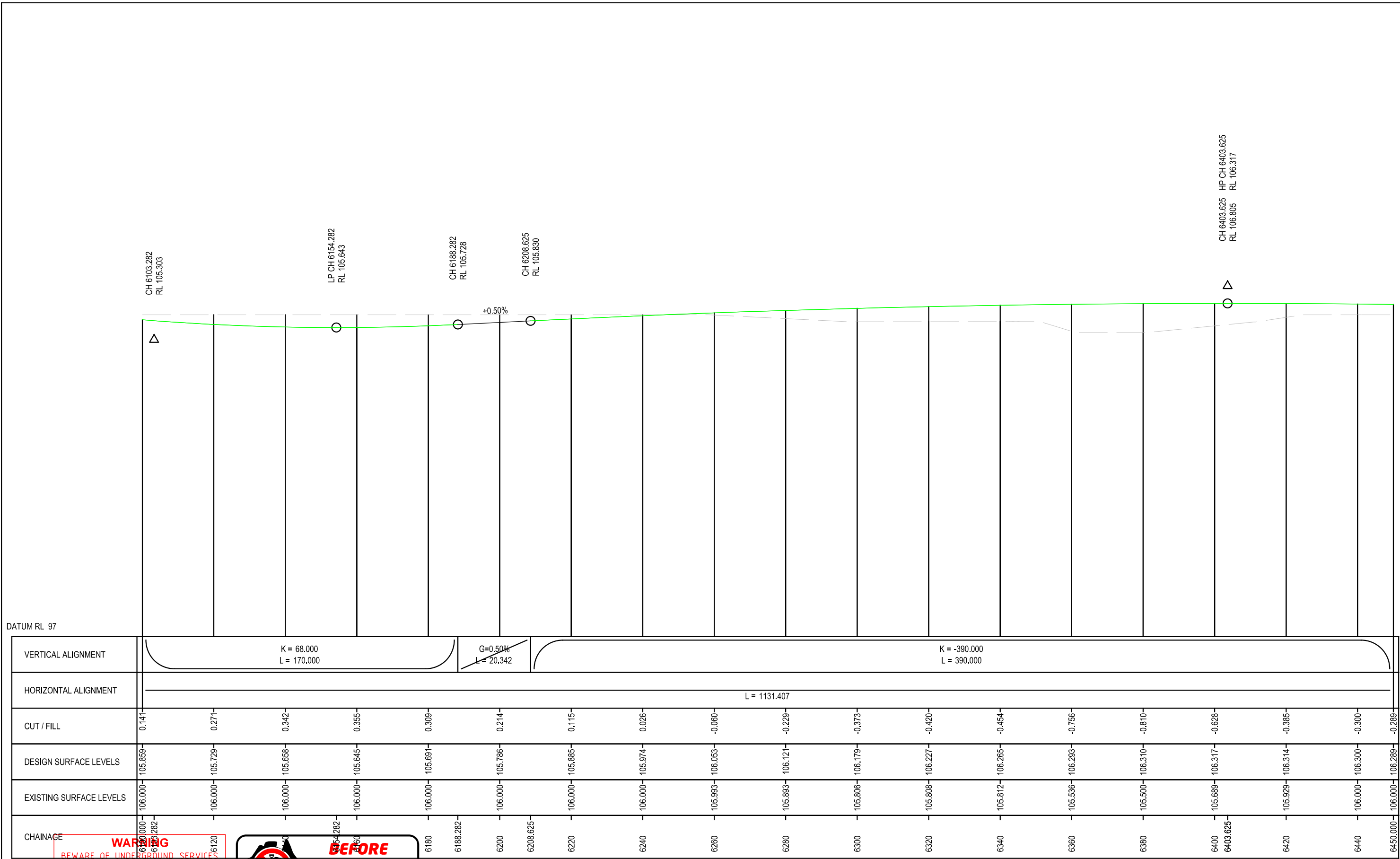
LONG SECTION MC04

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TAYLORS ROAD-MC04 SHEET 6 <table><tr><td>FILE NO.</td><td>CONTRACT NO.</td><td>SHEET NO.</td><td>DRAWING NO.</td><td>ISSUE</td></tr><tr><td>30049249</td><td></td><td>71</td><td>-7032</td><td>C</td></tr></table>					FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.	ISSUE	30049249		71	-7032	C
FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.			ISSUE																	
30049249		71	-7032			C																	
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO																	
B	AD	09.12.24	FINAL CONCEPT DESIGN																				
A	AD	15.10.24	DRAFT CONCEPT DESIGN																				
ISSUE	APP'D	DATE	AMENDMENT			CAT: PROJ: FILE: 30049249--7032.dgn		SCALE OF METRES HOR 0 20 40 VER															



DATUM RL 97																																					
VERTICAL ALIGNMENT	K = 68.000 L = 170.000										G=0.50% L = 20.342										K = -390.000 L = 390.000																
HORIZONTAL ALIGNMENT	L = 1131.407																																				
CUT / FILL	0.141		0.271		0.342		0.355		0.309		0.214		0.115		0.026		-0.060		-0.229		-0.373		-0.420		-0.454		-0.756		-0.810		-0.628		-0.385		-0.300		-0.289
DESIGN SURFACE LEVELS	105.859		105.729		105.658		105.645		105.691		105.786		105.885		105.974		106.053		106.121		106.179		106.227		106.265		106.293		106.310		106.317		106.314		106.300		106.289
EXISTING SURFACE LEVELS	106.000		106.000		106.000		106.000		106.000		106.000		106.000		106.000		105.993		105.993		105.806		105.806		105.812		105.536		105.500		105.689		105.929		106.000		106.000
CHAINAGE	6100.000	6120.000		6140.000		6160.000		6180.000	6188.282		6200.000	6208.625	6220.000		6240.000		6260.000		6280.000		6300.000		6320.000		6340.000		6360.000		6380.000		6400.000	6403.625		6420.000		6440.000	6450.000
WARNING BEWARE OF UNDERGROUND SERVICES																				BEFORE																	

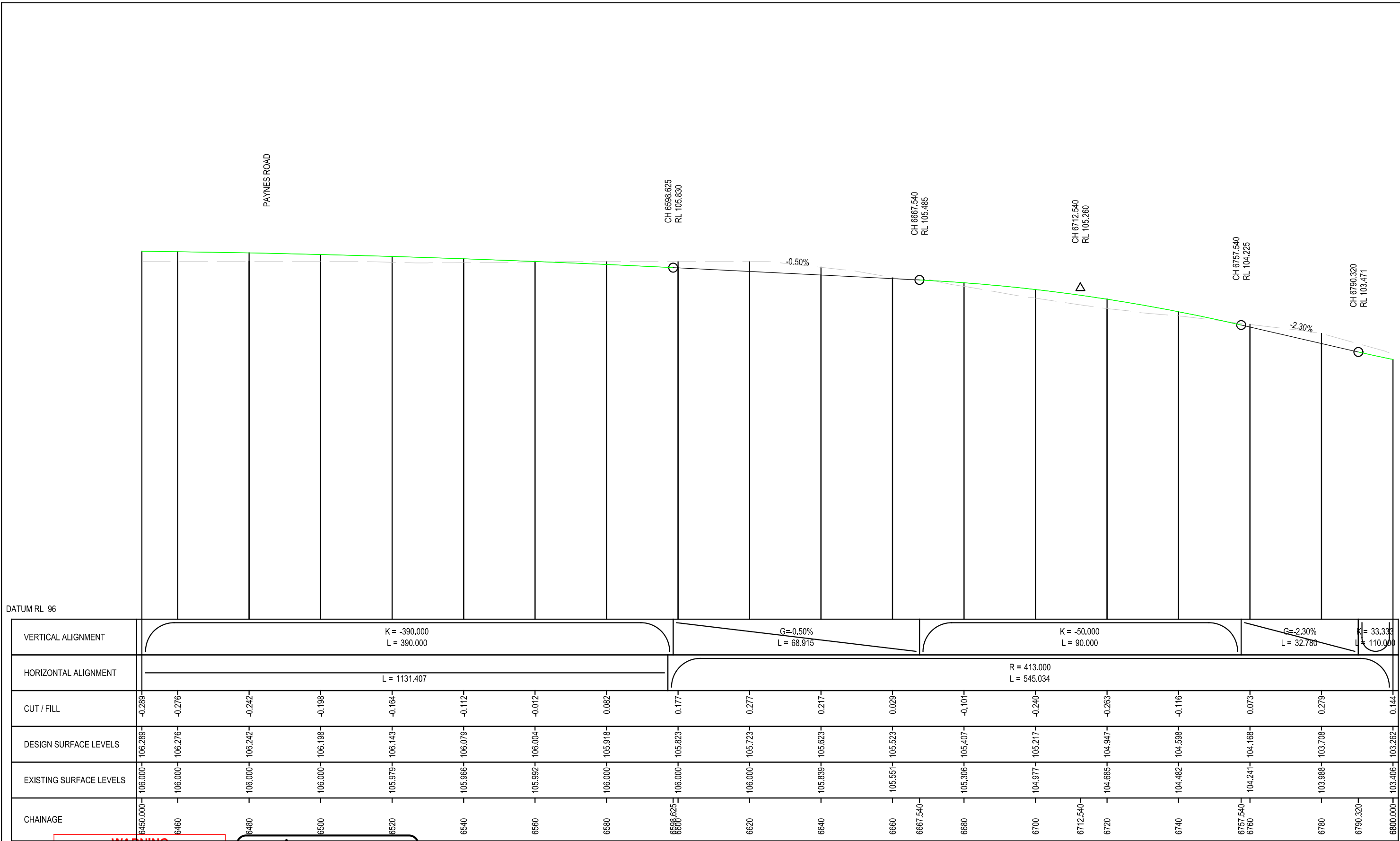
WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



LONG SECTION MC04

FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TAYLORS ROAD-MC04 SHEET 7						
						APPROVED A DONATO									
C	AD	17.01.25	FINAL CONCEPT DESIGN			CAT: PROJ: FILE: 30049249--7033.dgn								SCALE OF METRES HOR 0 20 40 VER	
B	AD	09.12.24	FINAL CONCEPT DESIGN												
A	AD	15.10.24	DRAFT CONCEPT DESIGN												
ISSUE	APP'D	DATE	AMENDMENT												



LONG SECTION MC04

WARNING

BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE
APPROXIMATE ONLY AND THEIR EXACT POSITION
SHOULD BE PROVEN ON SITE. NO GUARANTEE IS
GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



**BEFORE
YOU DIG**
www.byda.com.au

FINAL DESIGN

C	AD	17.01.25	FINAL CONCEPT DESIGN
B	AD	09.12.24	FINAL CONCEPT DESIGN
A	AD	15.10.24	DRAFT CONCEPT DESIGN
ISSUE	APP'D	DATE	AMENDMENT

GENERAL NOTES



DESIGNED
H DADWAL

APPROVED
A DONATO

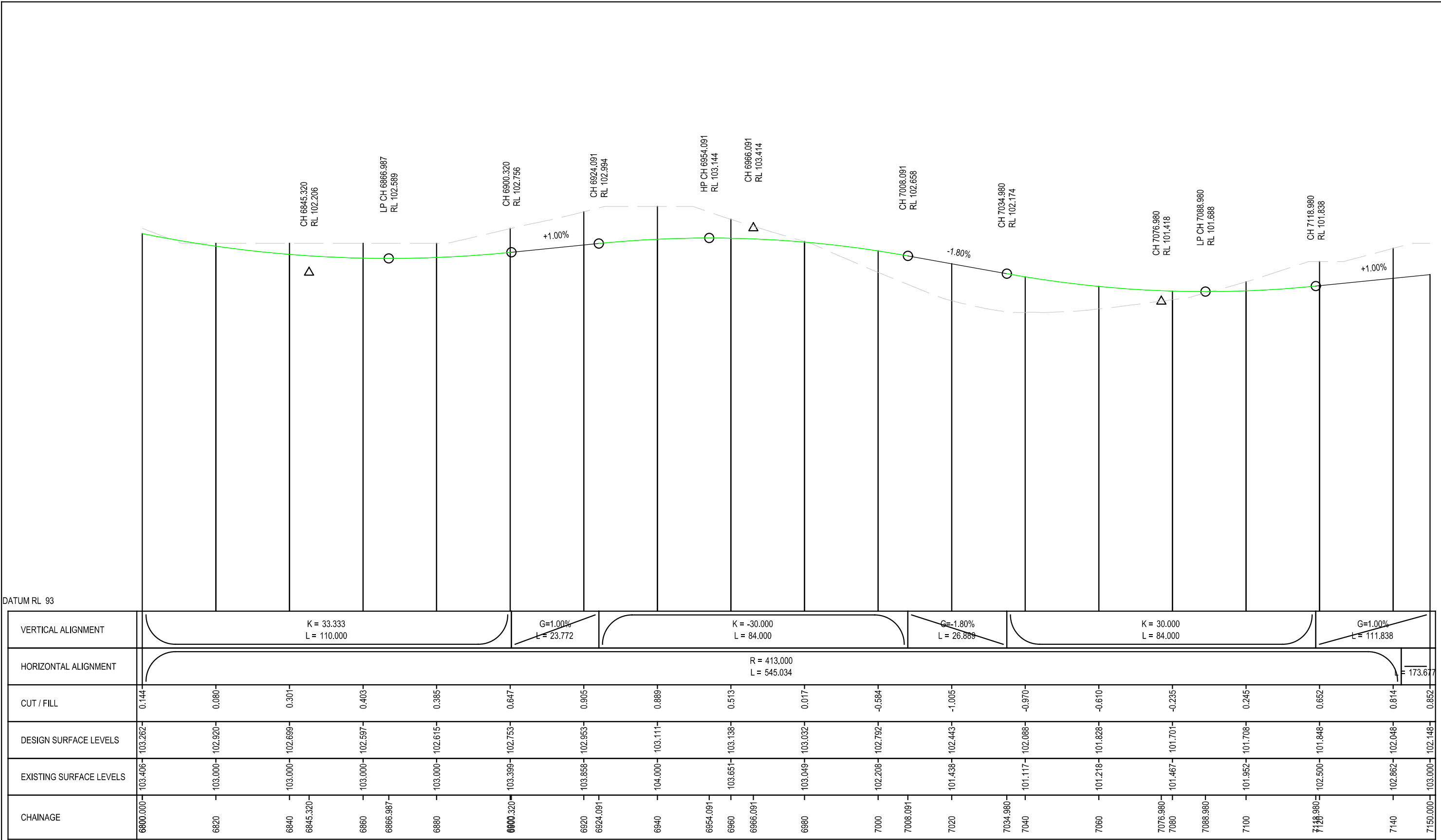
CAT:
PROJ:
FILE: 30049249--7034.dgn



SCALE OF METRES
HOR 0 20 40
VER

MELTON EAST PSP
VICTORIAN PLANNING AUTHORITY
GENERAL ALIGNMENT PLAN
LONG SECTION
TAYLORS ROAD-MC04 SHEET 8

FILE NO. 30049249	CONTRACT NO.	SHEET NO. 73	DRAWING NO. -7034	ISSUE C
----------------------	--------------	-----------------	----------------------	------------



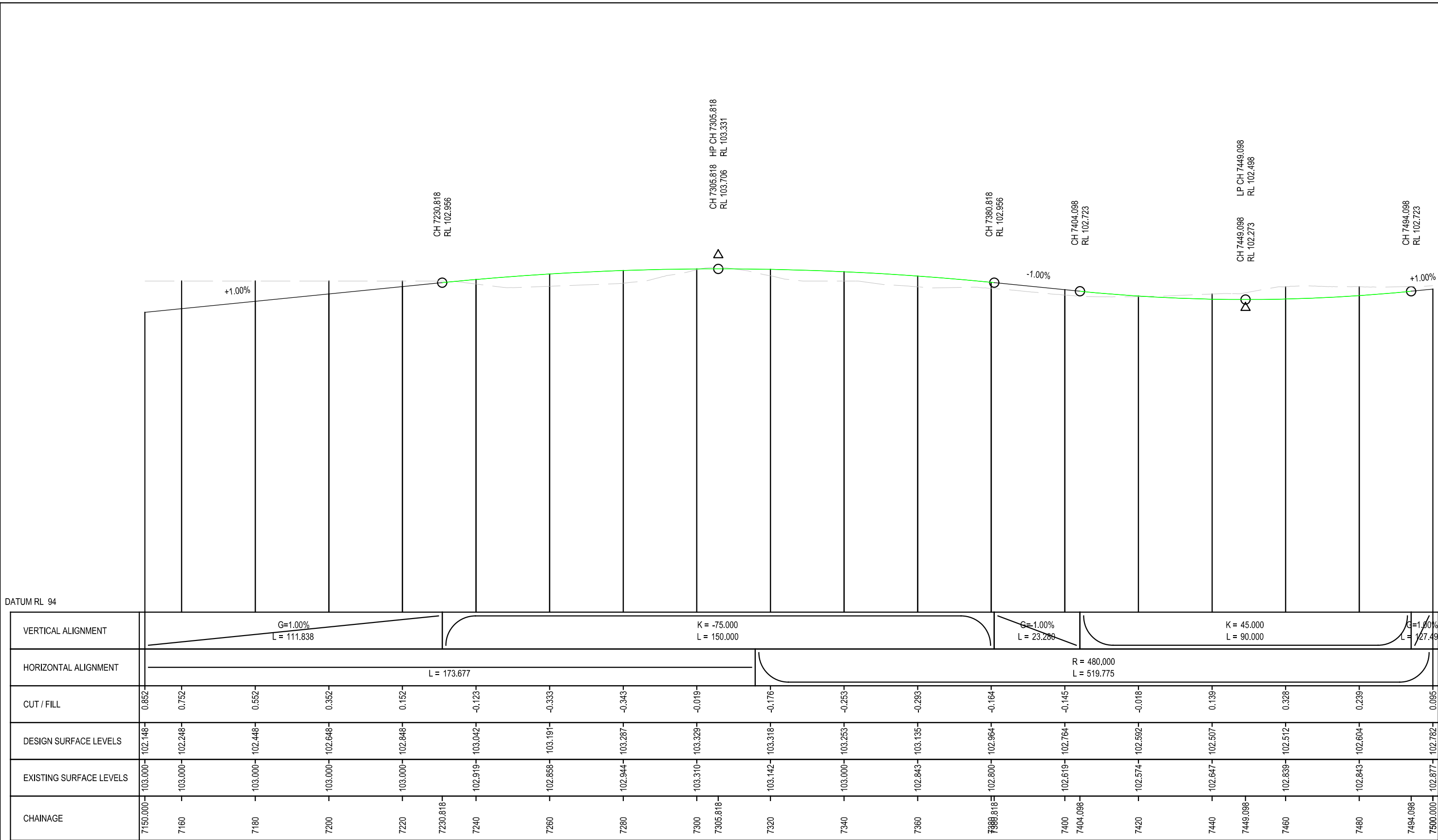
LONG SECTION MC04

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TAYLORS ROAD-MC04 SHEET 9				
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO							
B	AD	09.12.24	FINAL CONCEPT DESIGN										
A	AD	15.10.24	DRAFT CONCEPT DESIGN										
ISSUE	APP'D	DATE	AMENDMENT										
						CAT: PROJ: FILE: 30049249--7035.dgn		SCALE OF METRES HOR 0 20 40 VER	FILE NO. 30049249	CONTRACT NO.	SHEET NO. 74	DRAWING NO. -7035	ISSUE C



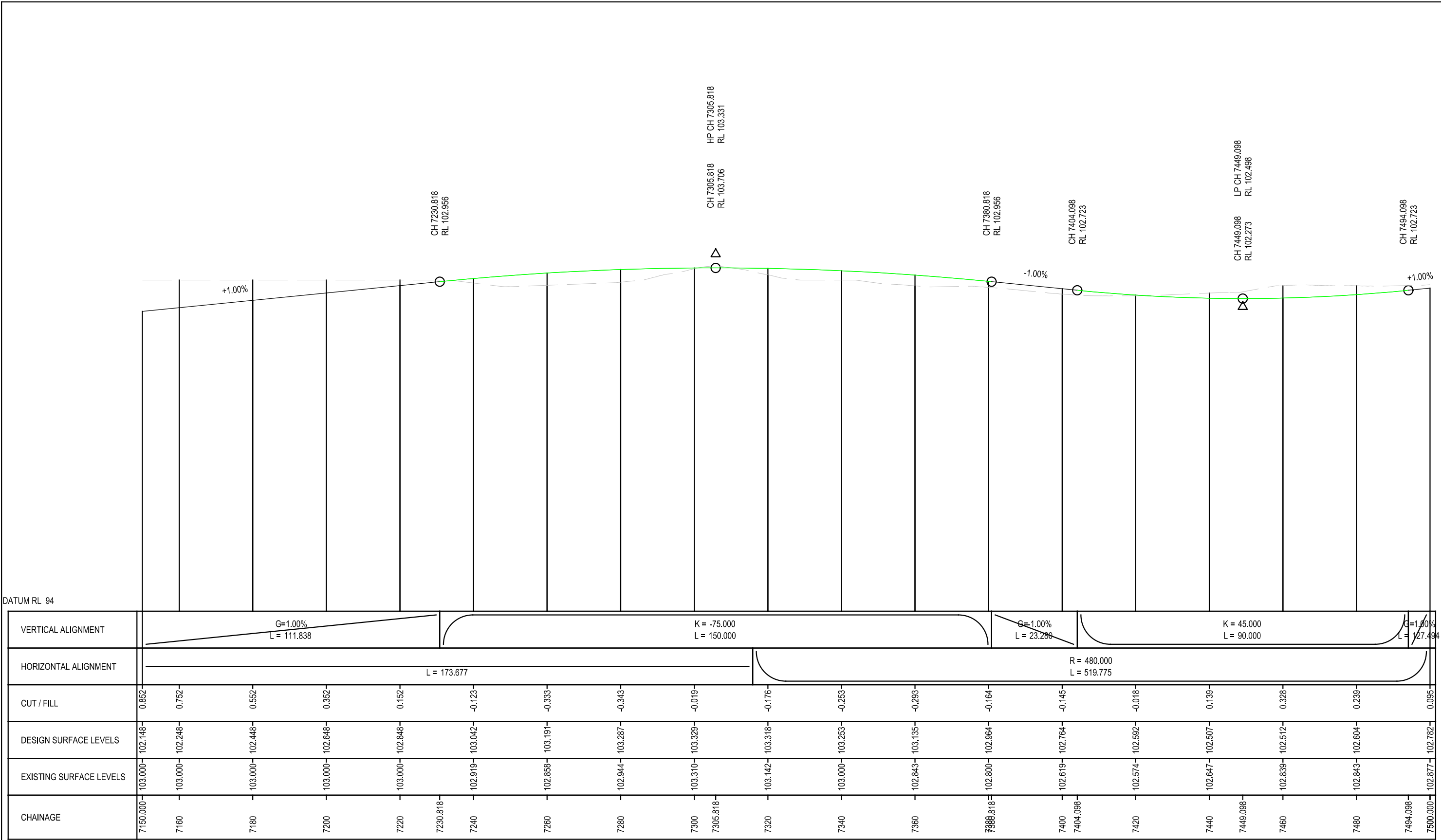
LONG SECTION MC04

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TAYLORS ROAD-MC04 SHEET 10				
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO							
B	AD	09.12.24	FINAL CONCEPT DESIGN										
A	AD	15.10.24	DRAFT CONCEPT DESIGN										
ISSUE	APP'D	DATE	AMENDMENT										
						CAT: PROJ: FILE: 30049249--7036.dgn			SCALE OF METRES HOR 0 20 40 VER				



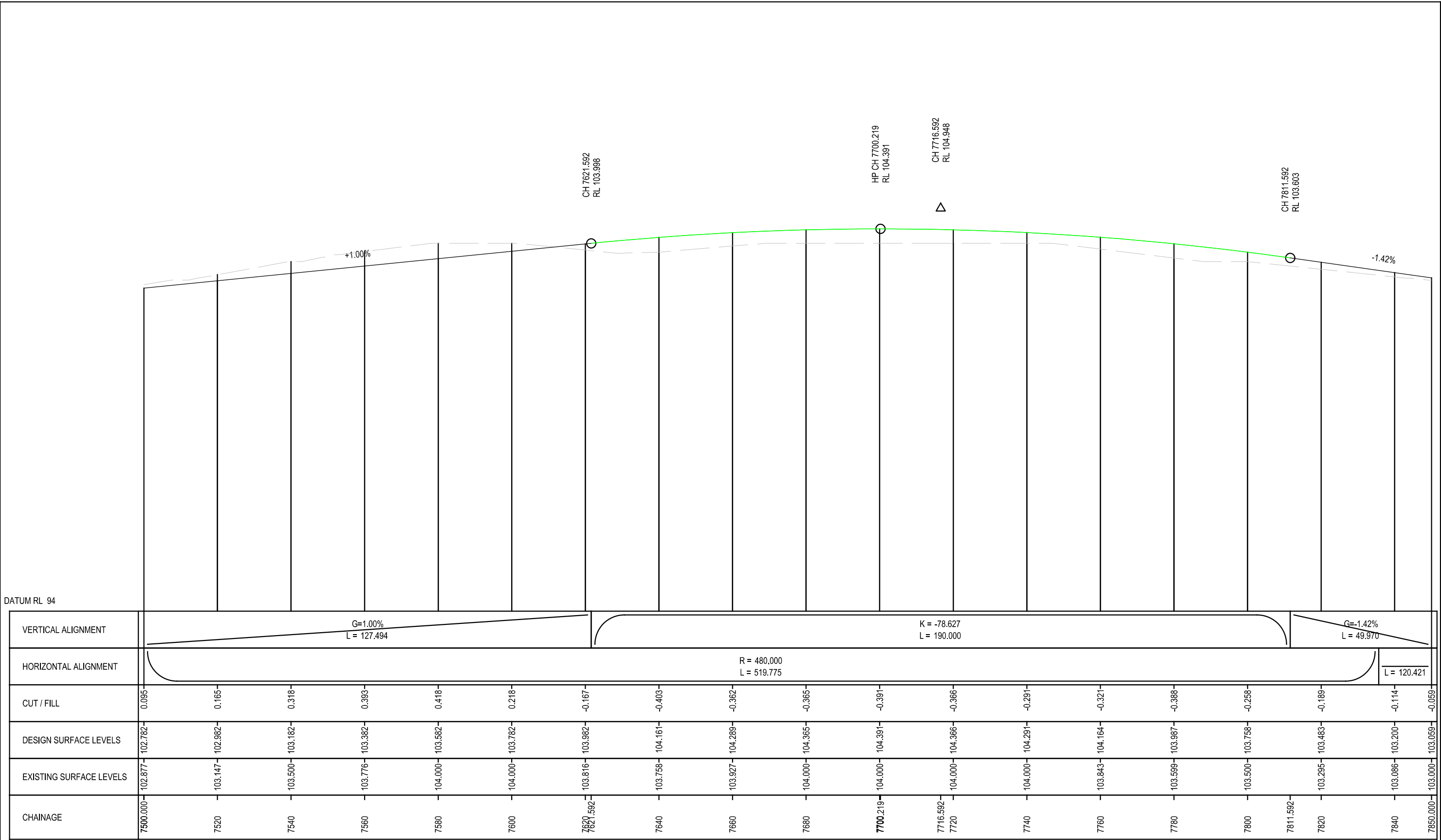
LONG SECTION MC04

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TAYLORS ROAD-MC04 SHEET 11					
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO								
B	AD	09.12.24	FINAL CONCEPT DESIGN											
A	AD	15.10.24	DRAFT CONCEPT DESIGN											
ISSUE	APP'D	DATE	AMENDMENT											
						CAT: PROJ: FILE: 30049249--7037.dgn		SCALE OF METRES HOR 0 20 40 VER		FILE NO. 30049249	CONTRACT NO.	SHEET NO. 76	DRAWING NO. -7037	ISSUE C



DATUM RL 94

VERTICAL ALIGNMENT	G=1.00% L = 127.494 K = -78.627 L = 190.000 G=-1.42% L = 49.970															
HORIZONTAL ALIGNMENT	R = 480.000 L = 519.775 L = 120.421															
CUT / FILL	0.095	0.165	0.318	0.393	0.418	0.218	-0.167	-0.403	-0.362	-0.365	-0.391	-0.366	-0.291	-0.321	-0.388	-0.258
DESIGN SURFACE LEVELS	102.782	102.982	103.182	103.382	103.582	103.782	103.982	104.161	104.289	104.365	104.391	104.366	104.291	104.164	103.987	103.758
EXISTING SURFACE LEVELS	102.877	103.147	103.500	103.776	104.000	104.000	103.816	103.758	103.927	104.000	104.000	104.000	104.000	103.843	103.599	103.500
CHAINAGE	7500.000	7520	7540	7560	7580	7600	7620	7640	7660	7680	7700.219	7716.592	7720	7740	7760	7780

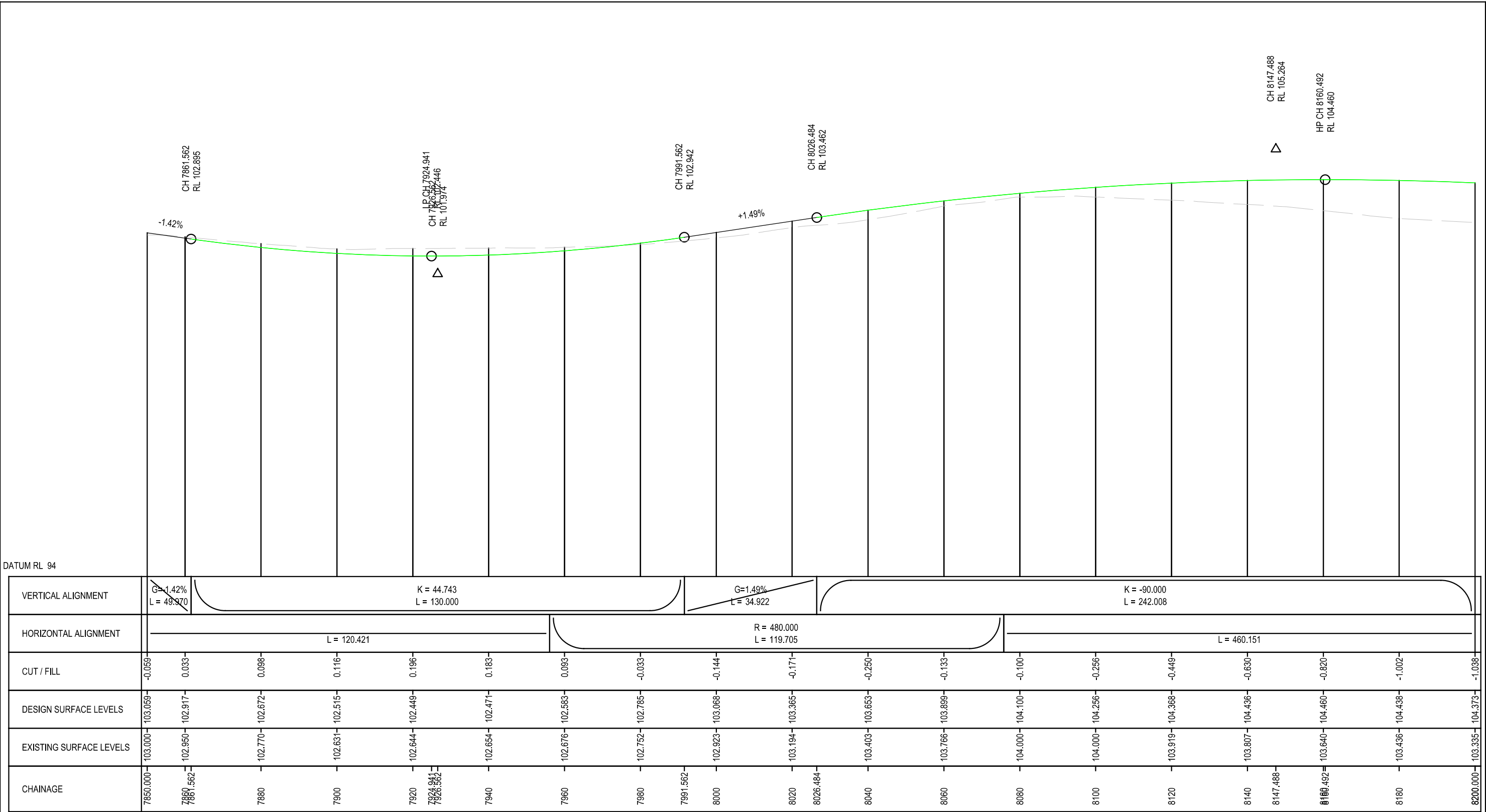
LONG SECTION MC04

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES		DESIGNED H DADWAL			MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TAYLORS ROAD-MC04 SHEET 12					
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO								
B	AD	09.12.24	FINAL CONCEPT DESIGN											
A	AD	15.10.24	DRAFT CONCEPT DESIGN											
ISSUE	APP'D	DATE	AMENDMENT											
						CAT: PROJ: FILE: 30049249--7038.dgn		SCALE OF METRES HOR 0 20 40 VER 		FILE NO. 30049249	CONTRACT NO.	SHEET NO. 77	DRAWING NO. -7038	ISSUE C



LONG SECTION MC04

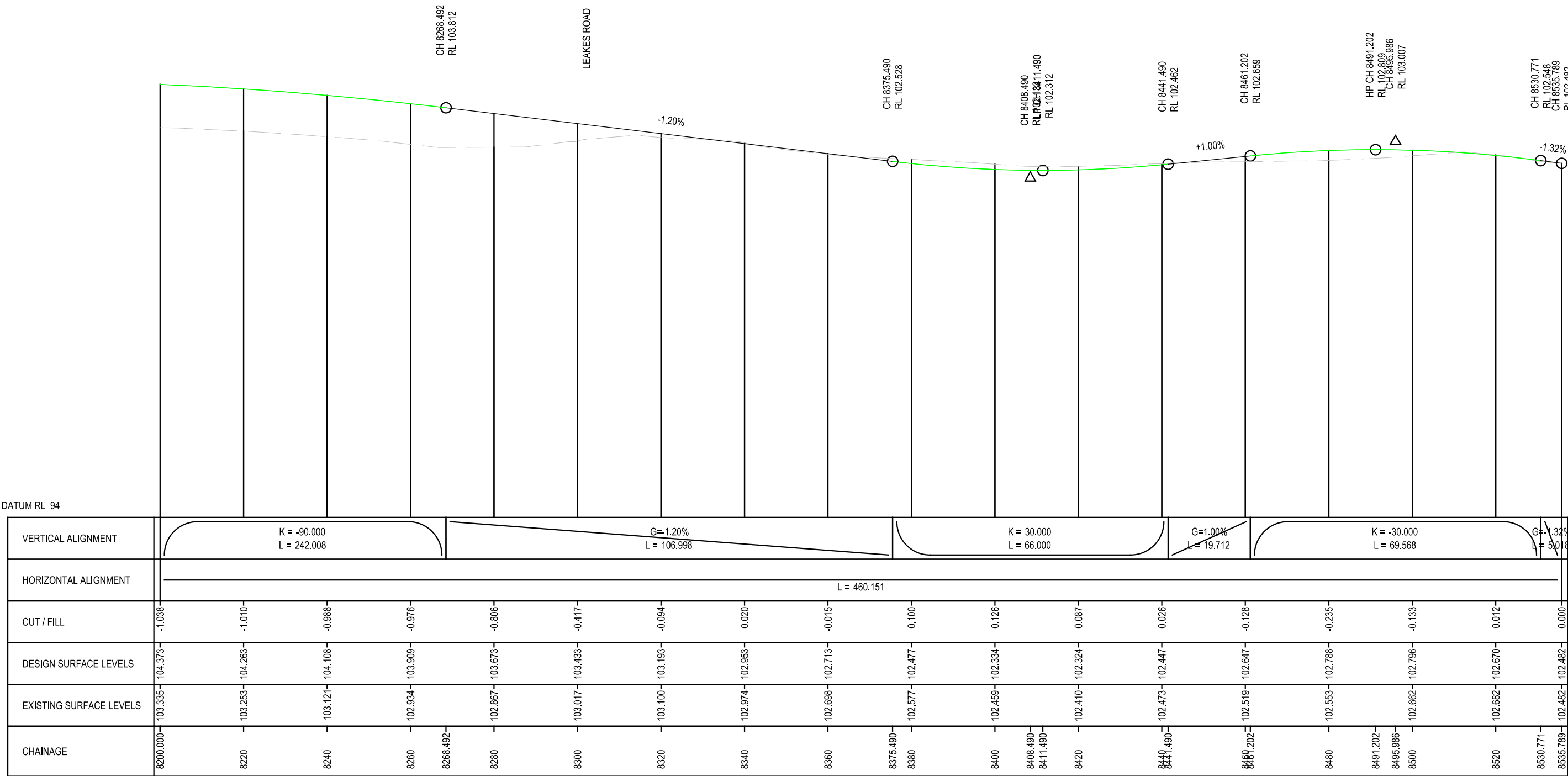
WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TAYLORS ROAD-MC04 SHEET 13				
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO							
B	AD	09.12.24	FINAL CONCEPT DESIGN										
A	AD	15.10.24	DRAFT CONCEPT DESIGN										
ISSUE	APP'D	DATE	AMENDMENT										
						CAT: PROJ: FILE: 30049249--7039.dgn		SCALE OF METRES HOR 0 20 40 VER 	FILE NO. 30049249	CONTRACT NO.	SHEET NO. 78	DRAWING NO. -7039	ISSUE C

7/02/2025 1:08:05 PM Default 30049249--7040.dgn

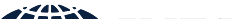


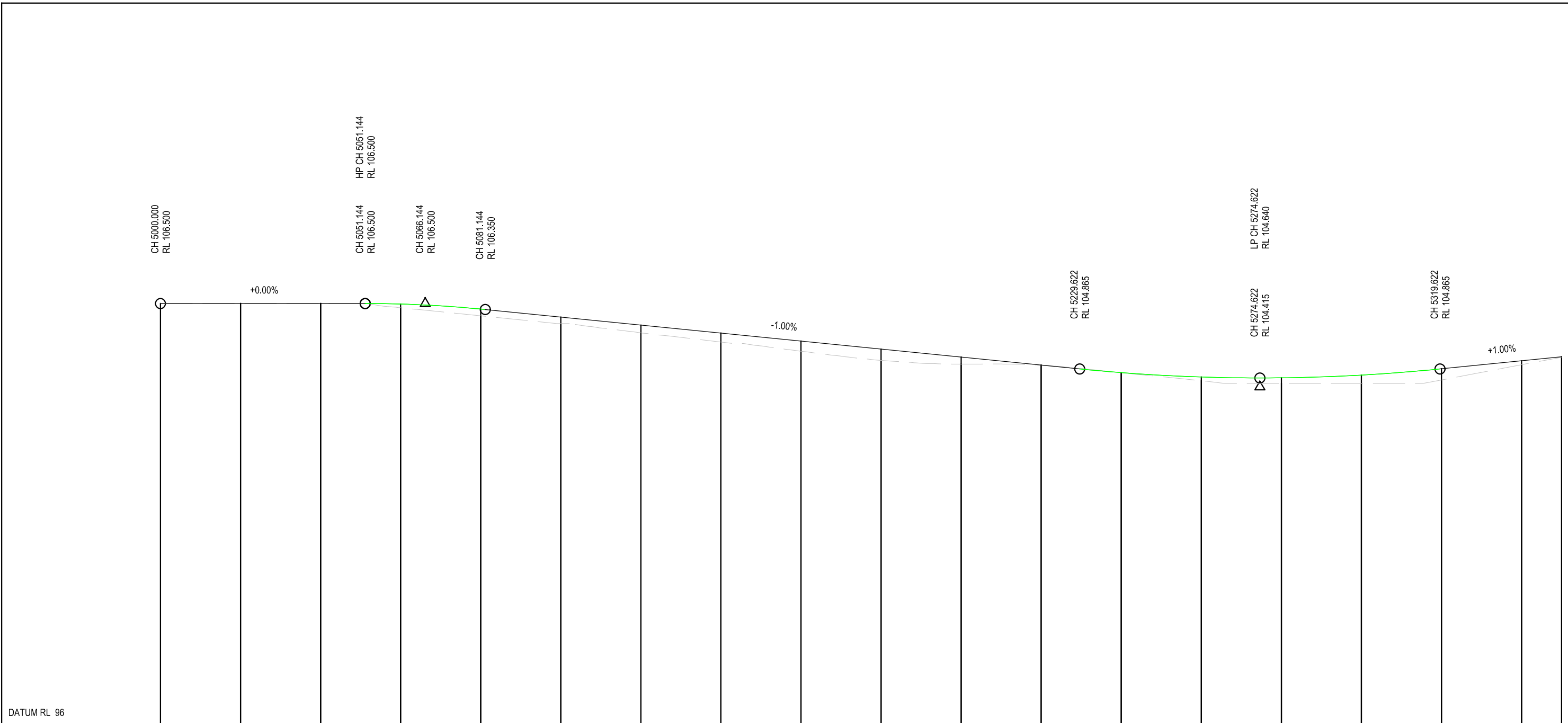
LONG SECTION MC04

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL	 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION TAYLORS ROAD-MC04 SHEET 14				
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO						
B	AD	09.12.24	FINAL CONCEPT DESIGN									
A	AD	15.10.24	DRAFT CONCEPT DESIGN									
ISSUE	APP'D	DATE	AMENDMENT									
						CAT: PROJ: FILE: 30049249--7040.dgn	SCALE OF METRES HOR 0 20 40 VER 	FILE NO. 30049249	CONTRACT NO.	SHEET NO. 79	DRAWING NO. -7040	ISSUE C

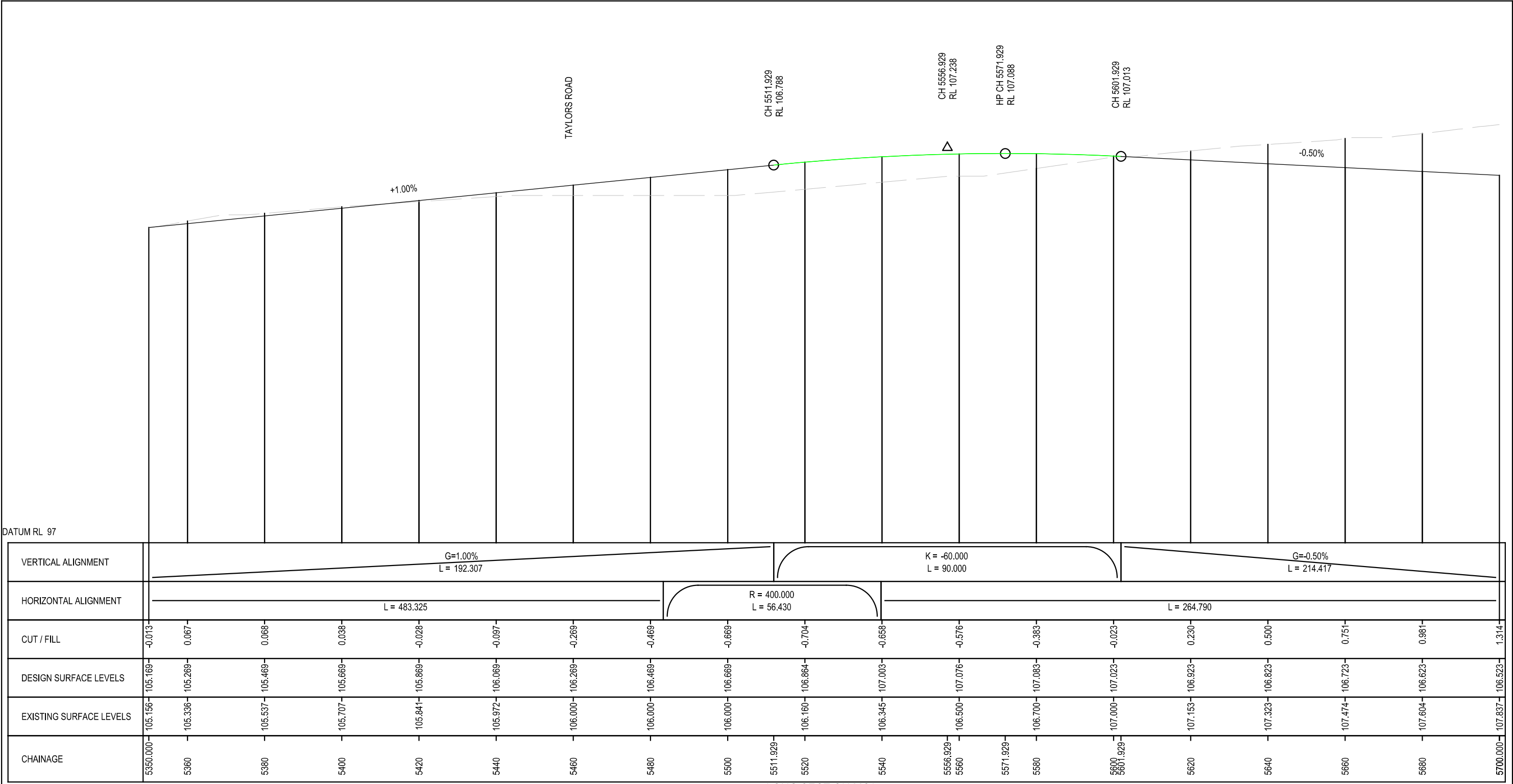


VERTICAL ALIGNMENT	G=0.00% L = 51.144			K = -30.000 L = 30.000		G=-1.00% L = 148.478							K = 45.000 L = 90.000			G=1.00% L = 192.307			
	HORIZONTAL ALIGNMENT																		
CUT / FILL	0.000	0.000	0.000	-0.093	-0.170	-0.161	-0.194	-0.226	-0.253	-0.284	-0.174	-0.004	-0.001	-0.094	-0.143	-0.212	-0.278	-0.097	-0.013
DESIGN SURFACE LEVELS	106.500	106.500	106.500	106.487	106.361	106.161	105.961	105.761	105.561	105.361	105.161	104.961	104.773	104.664	104.643	104.712	104.869	105.069	105.169
EXISTING SURFACE LEVELS	106.500	106.500	106.500	106.394	106.192	106.000	105.767	105.536	105.308	105.078	104.987	104.958	104.772	104.570	104.500	104.500	104.591	104.972	105.156
CHAINAGE	5000.000	5050.000	5100.000	5150.000	5200.000	5250.000	5300.000	5350.000	5400.000	5450.000	5500.000	5550.000	5600.000	5650.000	5700.000	5750.000	5800.000	5850.000	5900.000
WARNING BEWARE OF UNDERGROUND SERVICES THE LOCATIONS OF UNDERGROUND SERVICES ARE				BEFORE YOU DIG															

LONG SECTION MC05

FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL	 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION PAYNES ROAD-MC05 SHEET 1					
						APPROVED A DONATO							
C	AD	17.01.25	FINAL CONCEPT DESIGN				CAT: PROJ: FILE: 30049249--7041.dgn	SCALE OF METRES HOR 0 20 40 VER	FILE NO. 30049249	CONTRACT NO.	SHEET NO. 80	DRAWING NO. -7041	ISSUE C
B	AD	09.12.24	FINAL CONCEPT DESIGN										
A	AD	15.10.24	DRAFT CONCEPT DESIGN										
ISSUE	APP'D	DATE	AMENDMENT										



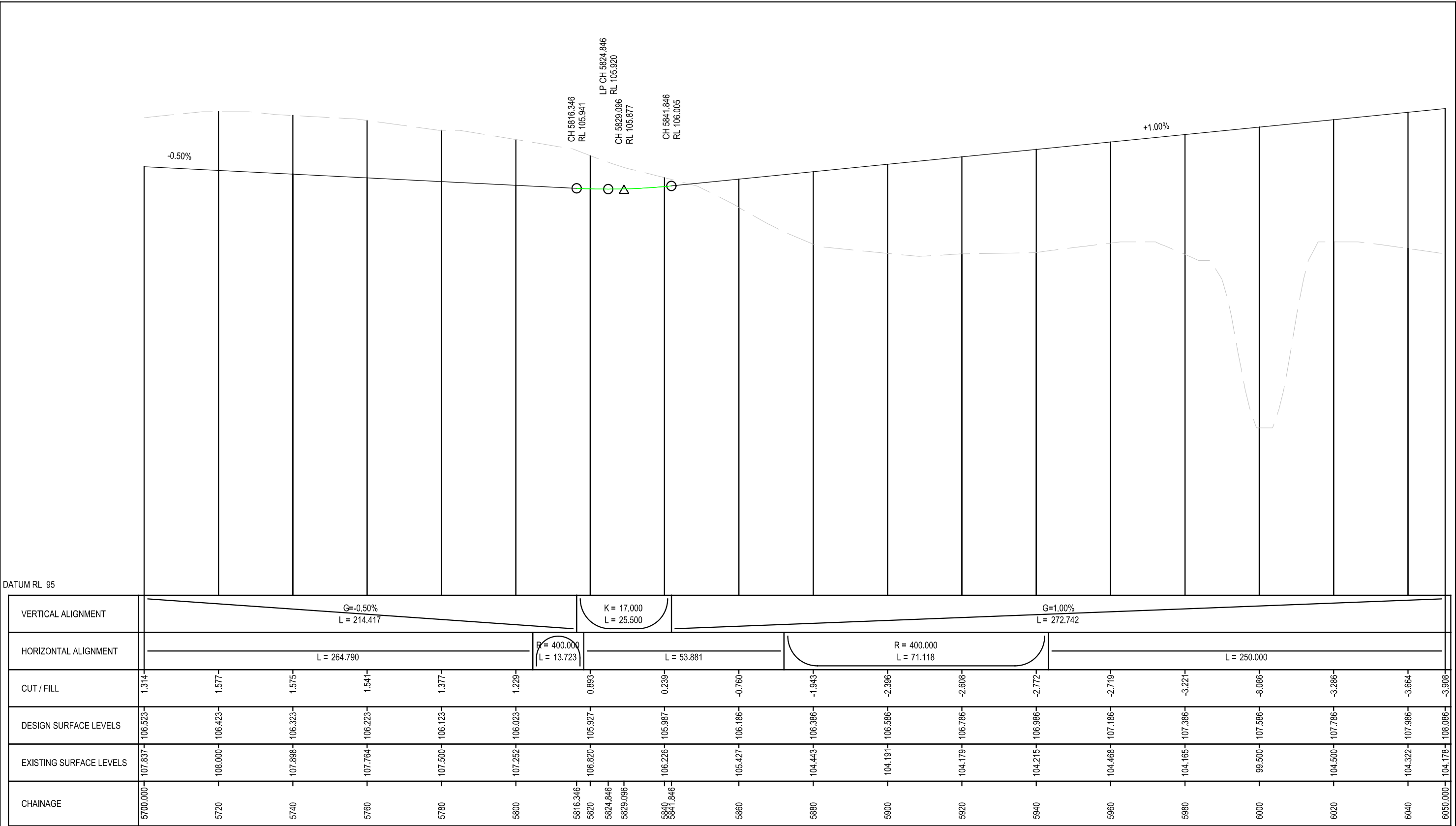
LONG SECTION MC05

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION PAYNES ROAD-MC05 SHEET 2					
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO								
B	AD	09.12.24	FINAL CONCEPT DESIGN											
A	AD	15.10.24	DRAFT CONCEPT DESIGN											
ISSUE	APP'D	DATE	AMENDMENT											
						CAT: PROJ: FILE: 30049249--7042.dgn		SCALE OF METRES HOR 0 20 40 VER 		FILE NO. 30049249	CONTRACT NO.	SHEET NO. 81	DRAWING NO. -7042	ISSUE C



LONG SECTION MC05

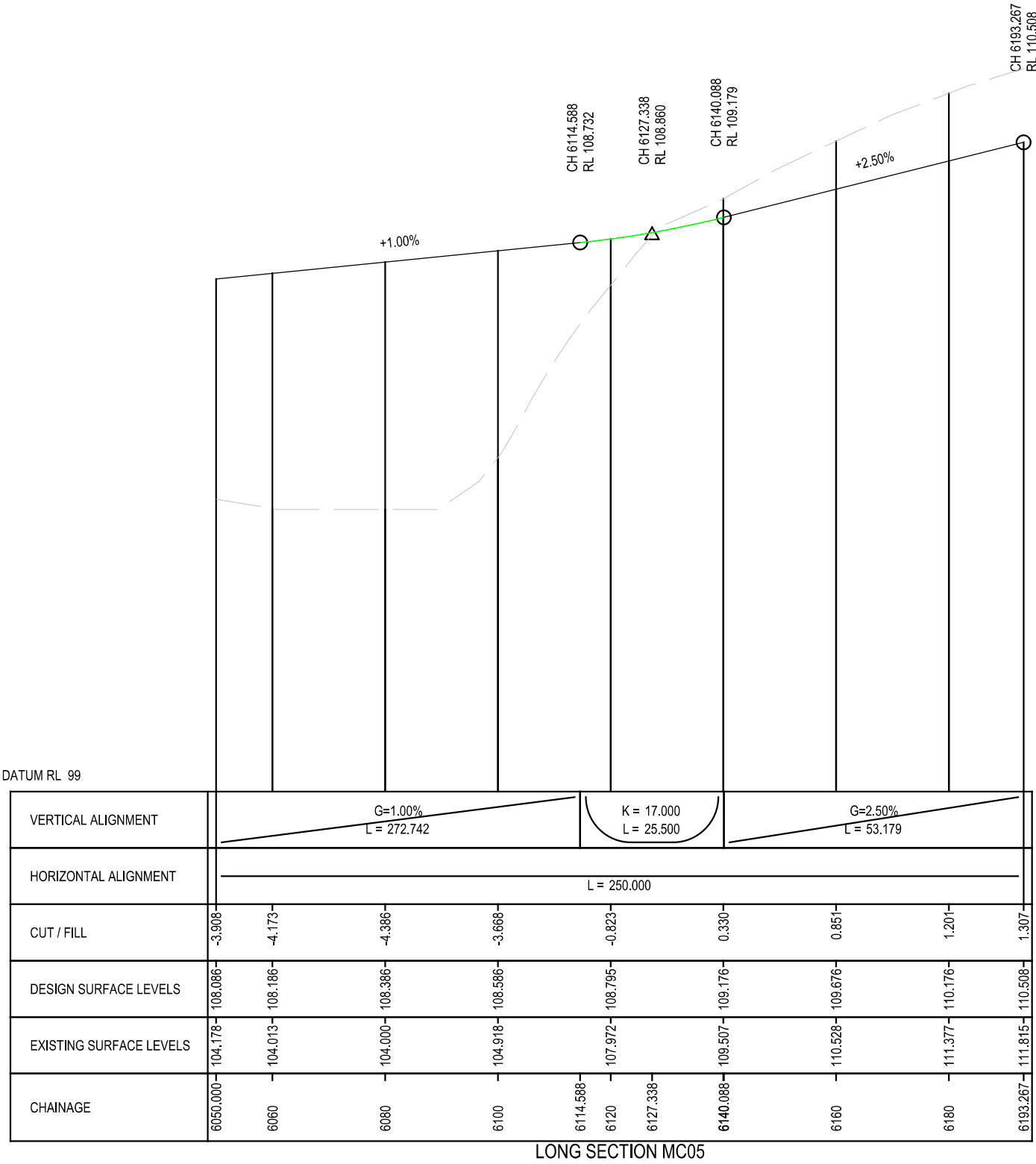
WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL	 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION PAYNES ROAD-MC05 SHEET 3							
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO		CAT: PROJ: FILE: 30049249--7043.dgn	SCALE OF METRES HOR 0 20 40 VER 	FILE NO. 30049249	CONTRACT NO.	SHEET NO. 82	DRAWING NO. -7043	ISSUE C	
B	AD	09.12.24	FINAL CONCEPT DESIGN												
A	AD	15.10.24	DRAFT CONCEPT DESIGN												
ISSUE	APP'D	DATE	AMENDMENT												

7/02/2025 1:08:06 PM Default 30049249--7044.dgn

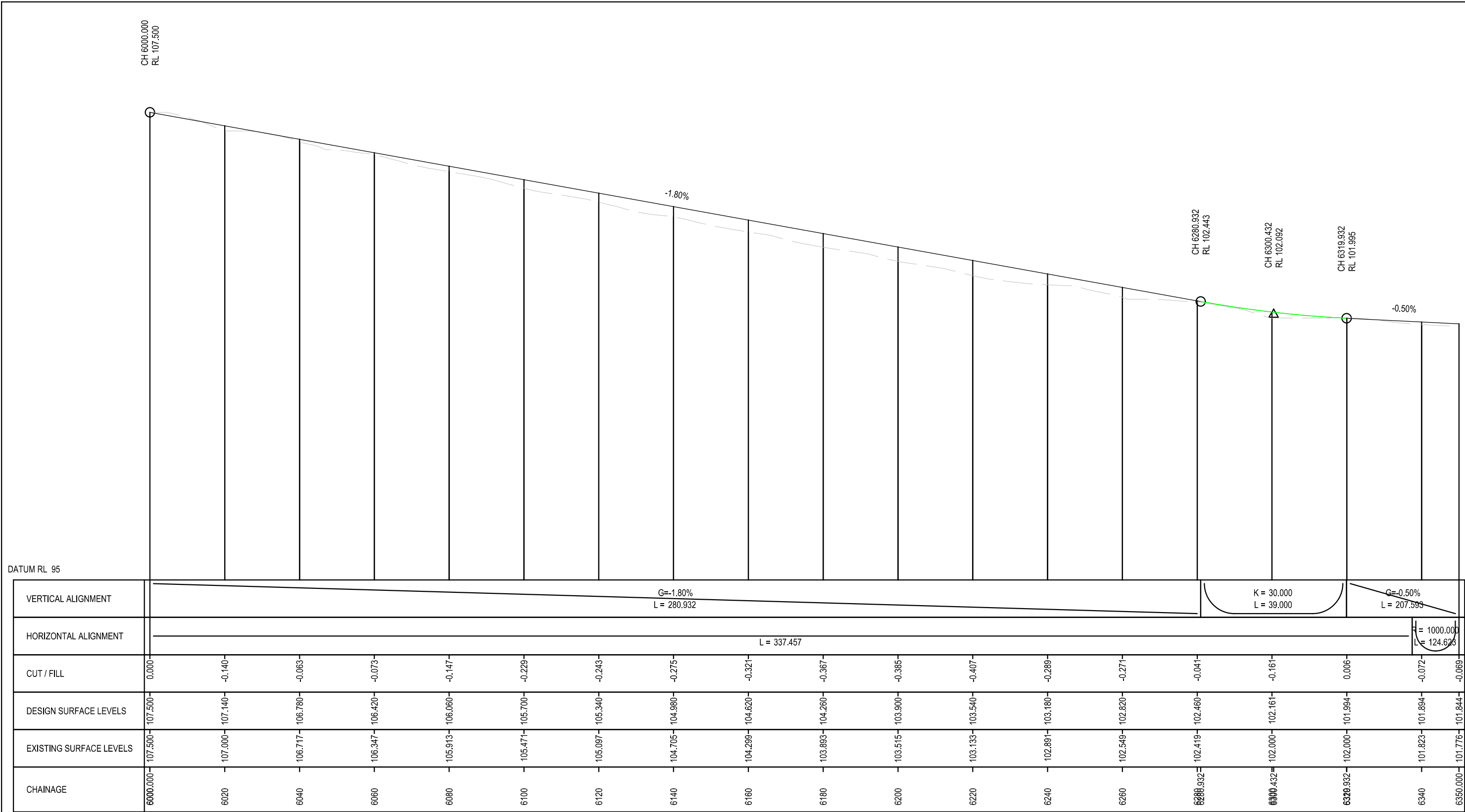


WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 SMC Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION PAYNES ROAD-MC05 SHEET 4										
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO													
B	AD	09.12.24	FINAL CONCEPT DESIGN																
A	AD	15.10.24	DRAFT CONCEPT DESIGN																
ISSUE	APP'D	DATE	AMENDMENT						CAT: PROJ: FILE: 30049249--7044.dgn		SCALE OF METRES HOR 0 20 40 VER 		FILE NO. 30049249	CONTRACT NO.	SHEET NO. 83	DRAWING NO. -7044	ISSUE C		



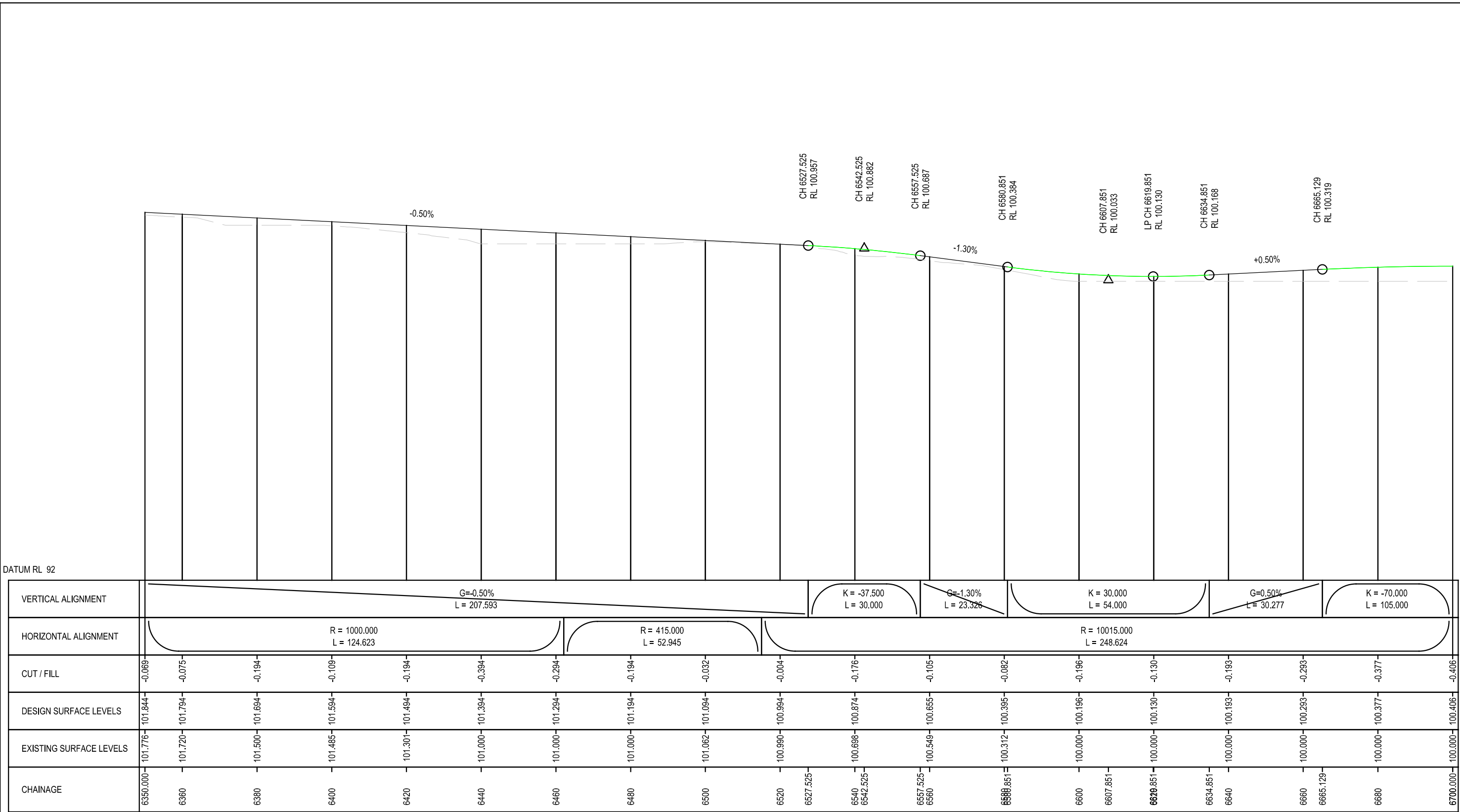
LONG SECTION MC06

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION LEAKES ROAD-MC06 SHEET 1					
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO								
B	AD	09.12.24	FINAL CONCEPT DESIGN											
A	AD	15.10.24	DRAFT CONCEPT DESIGN											
ISSUE	APP'D	DATE	AMENDMENT											
														CAT: PROJ: FILE: 30049249--7045.dgn



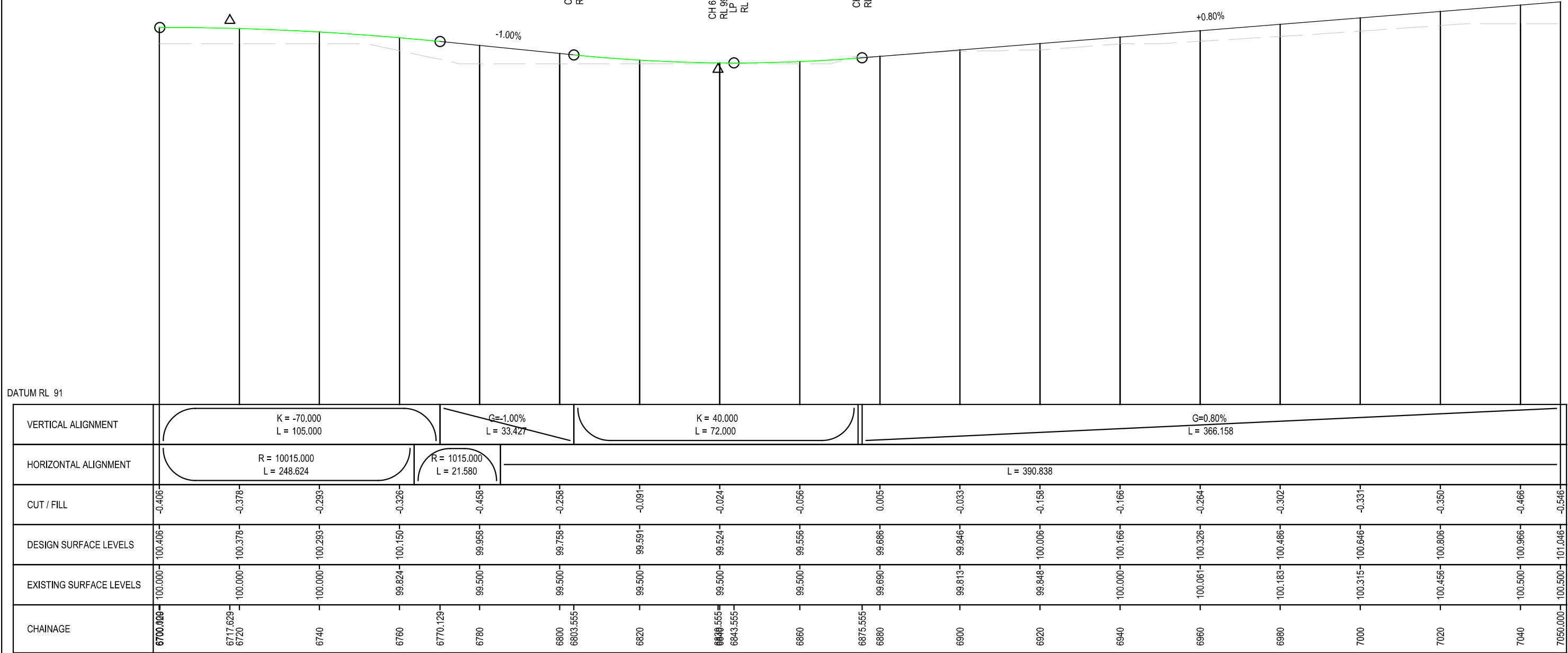
LONG SECTION MC06

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION LEAKES ROAD-MC06 SHEET 2						
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO									
B	AD	09.12.24	FINAL CONCEPT DESIGN												
A	AD	15.10.24	DRAFT CONCEPT DESIGN												
ISSUE	APP'D	DATE	AMENDMENT												
						CAT: PROJ: FILE: 30049249--7046.dgn			SCALE OF METRES HOR 0 20 40 VER 		FILE NO. 30049249	CONTRACT NO.	SHEET NO. 85	DRAWING NO. -7046	ISSUE C



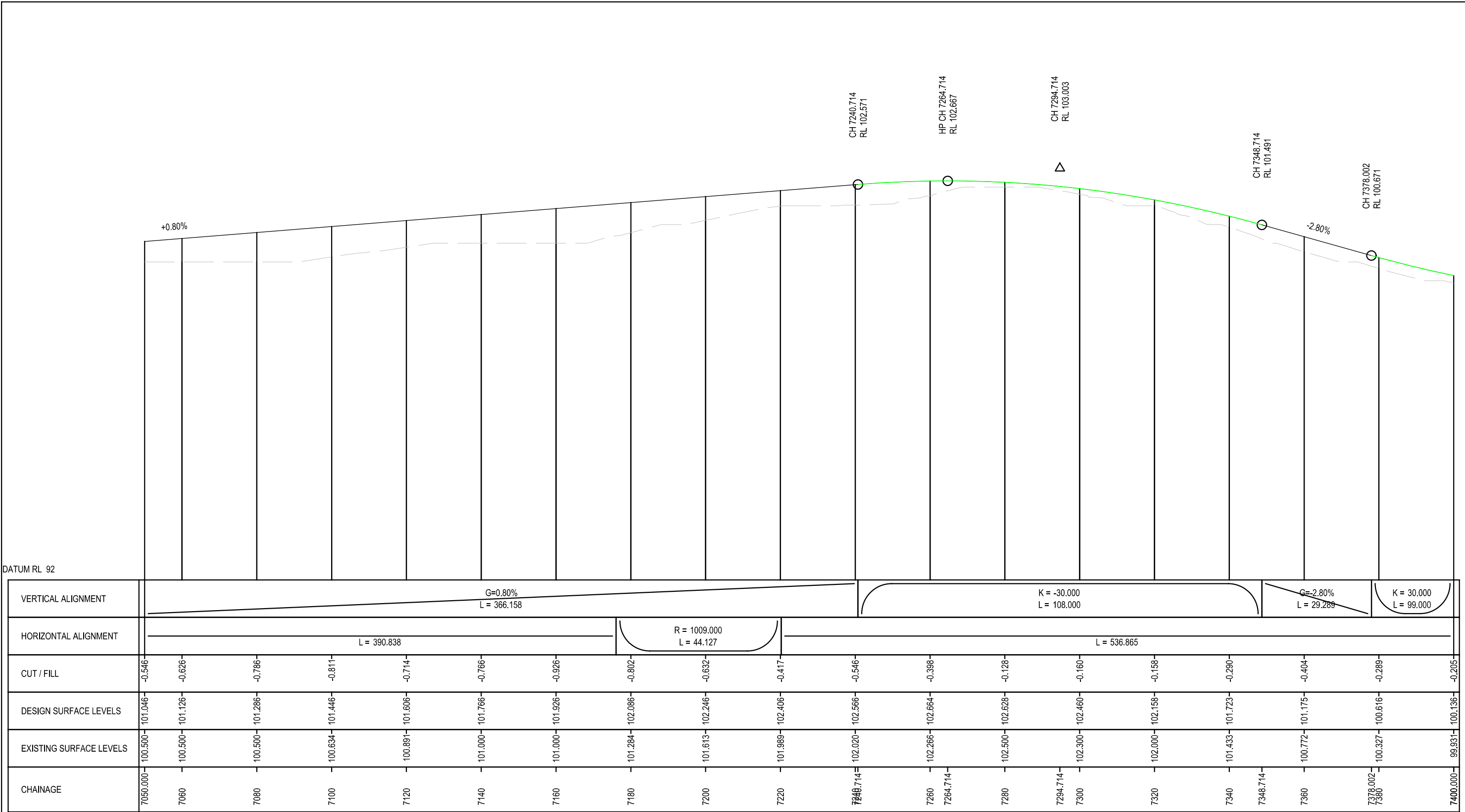
LONG SECTION MC06

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION LEAKES ROAD-MC06 SHEET 3					
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO								
B	AD	09.12.24	FINAL CONCEPT DESIGN											
A	AD	15.10.24	DRAFT CONCEPT DESIGN											
ISSUE	APP'D	DATE	AMENDMENT											
														CAT: PROJ: FILE: 30049249--7047.dgn



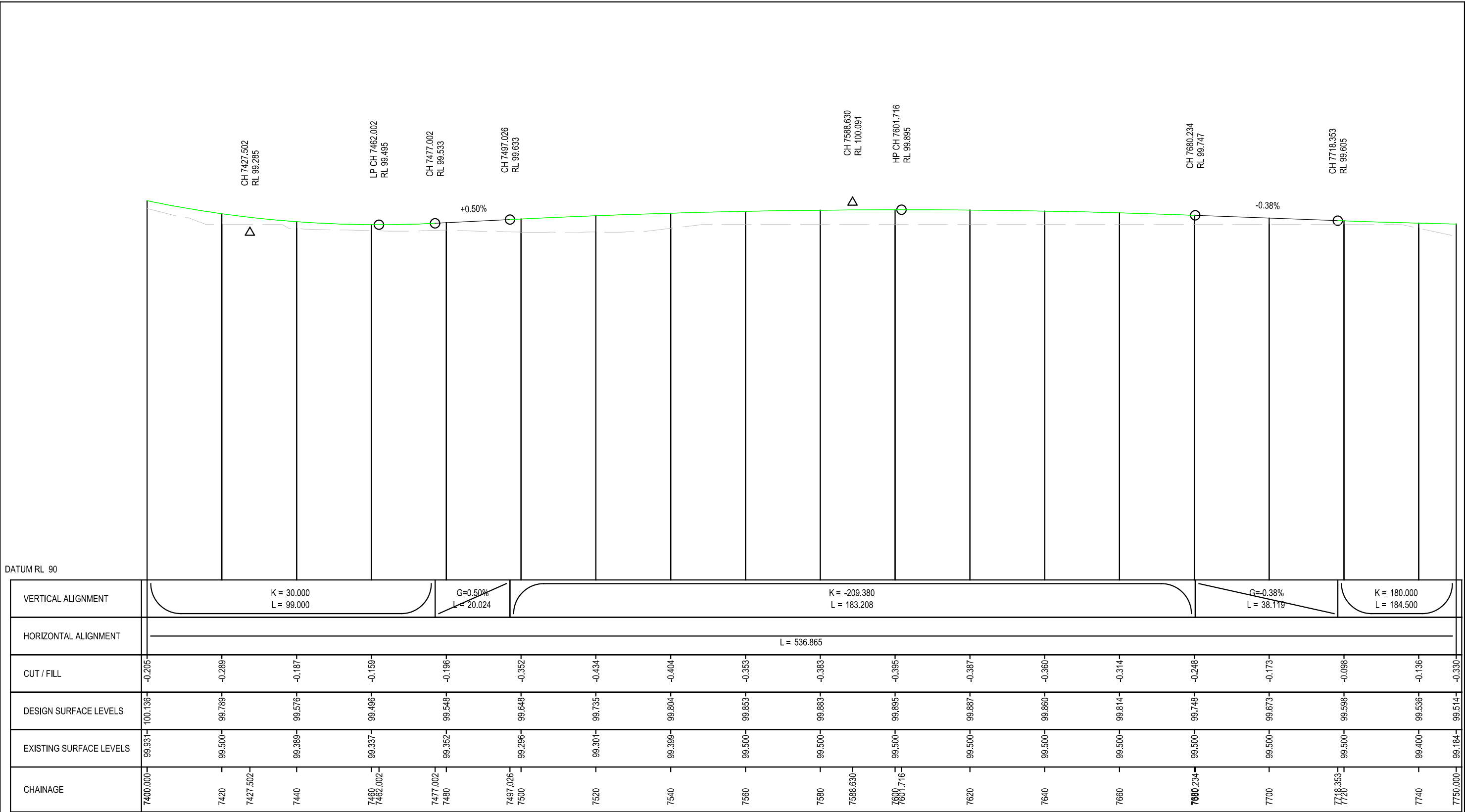
LONG SECTION MC06

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 SMC Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION LEAKES ROAD-MC06 SHEET 4					
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO								
B	AD	09.12.24	FINAL CONCEPT DESIGN											
A	AD	15.10.24	DRAFT CONCEPT DESIGN											
ISSUE	APP'D	DATE	AMENDMENT											
						CAT: PROJ: FILE: 30049249--7048.dgn		SCALE OF METRES HOR 0 20 40 VER 		FILE NO. 30049249	CONTRACT NO.	SHEET NO. 87	DRAWING NO. -7048	ISSUE C



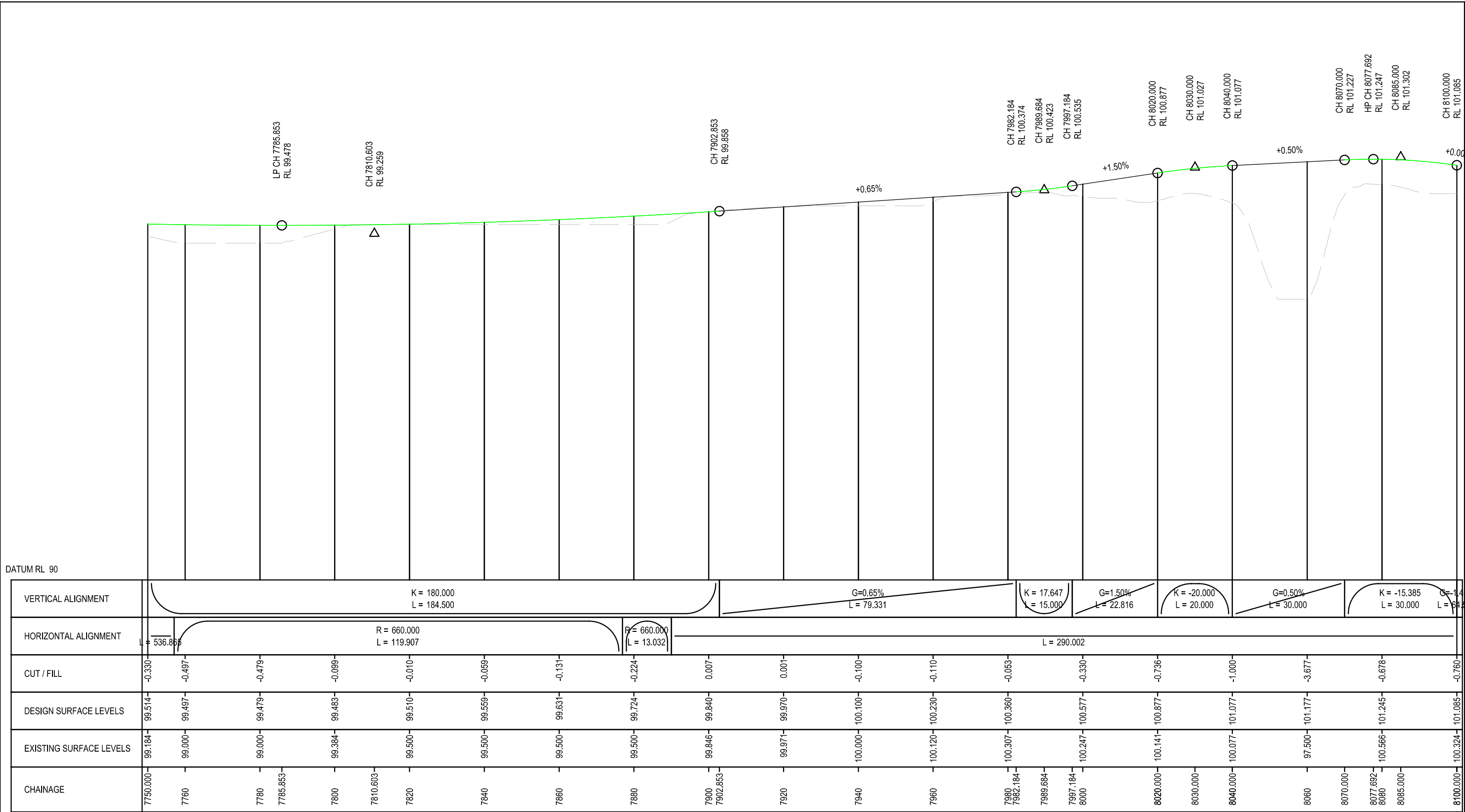
LONG SECTION MC06

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL	 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION LEAKES ROAD-MC06 SHEET 5				
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO						
B	AD	09.12.24	FINAL CONCEPT DESIGN									
A	AD	15.10.24	DRAFT CONCEPT DESIGN									
ISSUE	APP'D	DATE	AMENDMENT									
						CAT: PROJ: FILE: 30049249--7049.dgn	SCALE OF METRES HOR 0 20 40 VER 	FILE NO. 30049249	CONTRACT NO.	SHEET NO. 88	DRAWING NO. -7049	ISSUE C

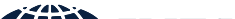


LONG SECTION MC06

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

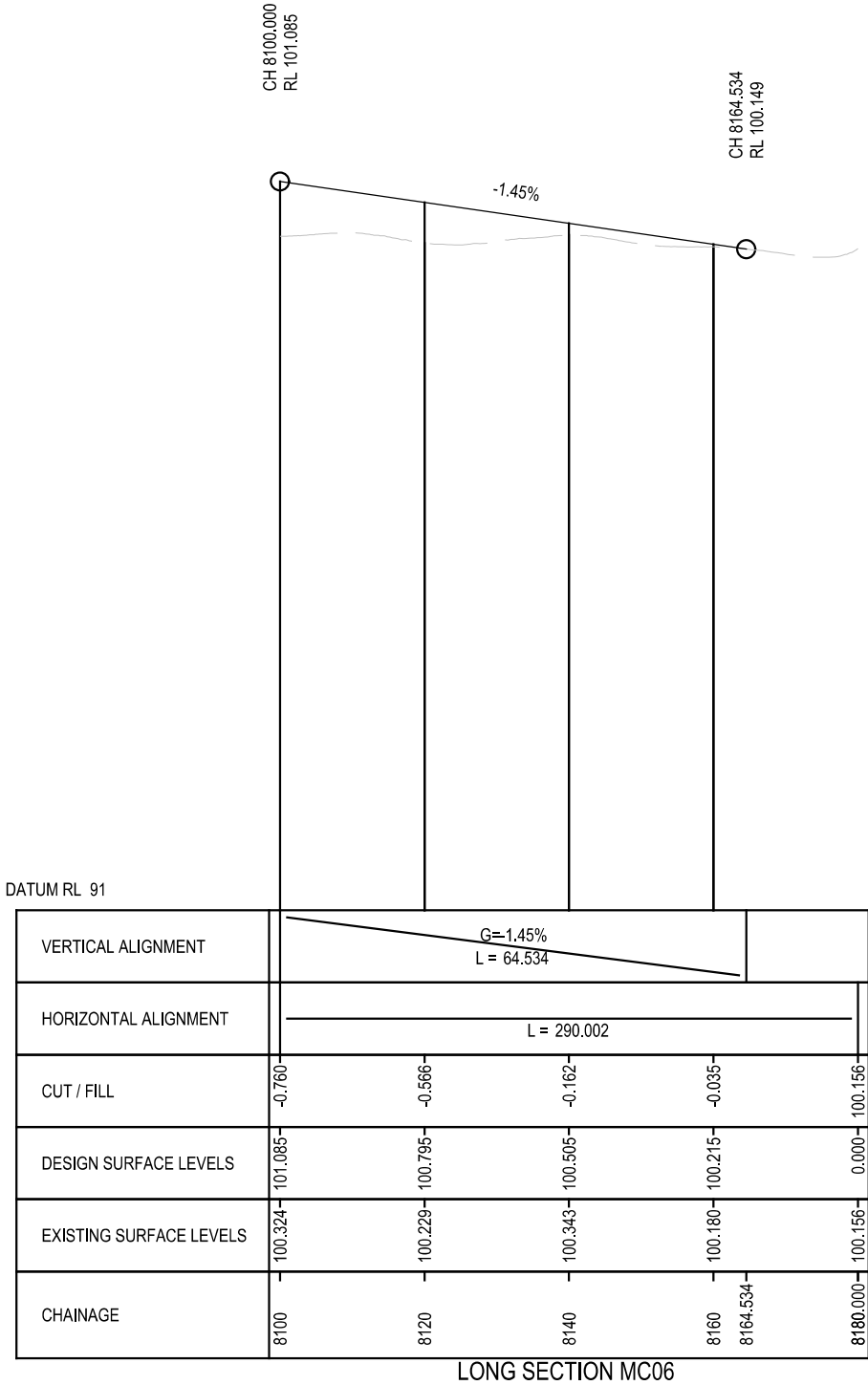
				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL	 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN LONG SECTION LEAKES ROAD-MC06 SHEET 6					
						APPROVED A DONATO							
B	AD	09.12.24	FINAL CONCEPT DESIGN										
A	AD	15.10.24	DRAFT CONCEPT DESIGN										
ISSUE	APP'D	DATE	AMENDMENT										
						CAT: PROJ: FILE: 30049249--7050.dgn	SCALE OF METRES HOR 0 20 40 VER		FILE NO. 30049249	CONTRACT NO.	SHEET NO. 89	DRAWING NO. -7050	ISSUE B

7/02/2025 1:08:08 PM Default 30049249--7051.dgn

7/02/2025 1:08:08 PM Default 30049249--7051.dgn

A	AD	09.12.24	FINAL CONCEPT DESIGN
ISSUE	APP'D	DATE	AMENDMENT

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN



DESIGNED
H DADWAL

APPROVED
A DONATO

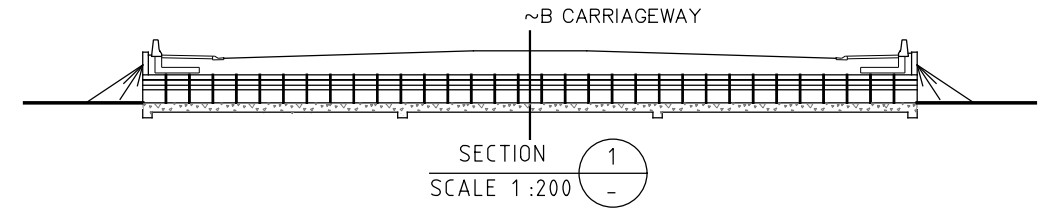
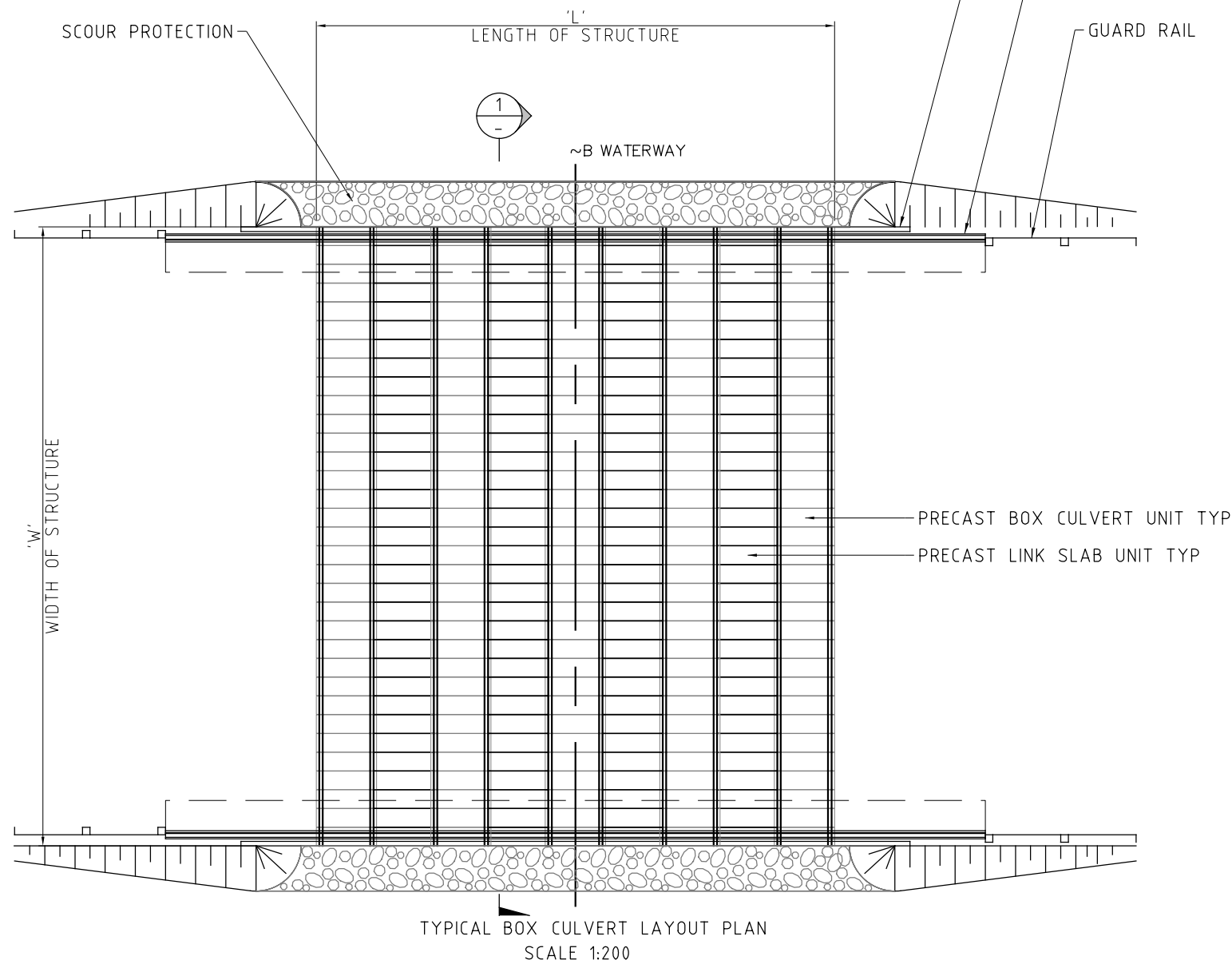
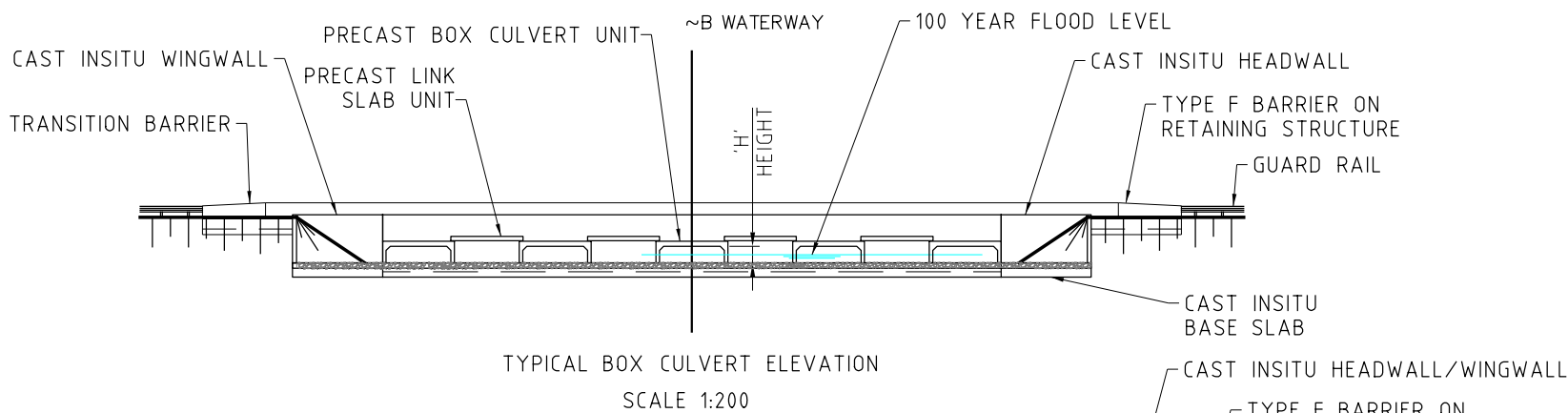
CAT:
PROJ:
FILE: 30049249--7051.dgn



SCALE OF METRES
HOR 0 20 40
VER

MELTON EAST PSP
VICTORIAN PLANNING AUTHORITY
GENERAL ALIGNMENT PLAN
LONG SECTION
LEAKES ROAD-MC06 SHEET 7

FILE NO. 30049249	CONTRACT NO.	SHEET NO. 90	DRAWING NO. -7051	ISSUE B
----------------------	--------------	-----------------	----------------------	------------



BOX CULVERT SCHEDULE						
CULVERT MARK	DESCRIPTION	LENGTH "L"	WIDTH "W"	HEIGHT "H"	SIZE OF CULVERT UNITS	NO OF CULVERT UNITS
CU-01	TAYLORS ROAD CH MC04 6200	4.2 m	46.36 m	1.2 m	2.1 m	38
CU-02	TAYLORS ROAD CH MC04 6700	2.1 m	46.36 m	1.2 m	2.1 m	19
CU-03	LEAKES ROAD CH MC06 6500	2.1 m	41.48 m	1.2 m	2.1 m	17
CU-04	LEAKES ROAD CH MC06 6900	12.6 m	41.48 m	1.2 m	2.1 m	102
CU-05	LEAKES ROAD CH MC06 7450	2.1 m	41.48 m	1.2 m	2.1 m	17
CU-06	LEAKES ROAD CH MC06 7700	2.1 m	41.48 m	1.2 m	2.1 m	17

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES. CHAINAGES, COORDINATES AND REDUCED LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
2. PRIOR TO CONSTRUCTION OF THE CONCRETE BASE SLAB, THE FOUNDATION ASSUMPTIONS SHALL BE VALIDATED ON SITE. THE CONSTRUCTION TEAM SHALL ENSURE THAT ANY NECESSARY FOUNDATION TREATMENT SHALL BE COMPLETED PRIOR TO COMMENCING BASE SLAB CONSTRUCTION. IF WEAK FOUNDATION CONDITIONS THAN THOSE SPECIFIED ARE ENCOUNTERED THEN IMPROVEMENT AS ADVISED BY THE GEOTECHNICAL ENGINEER SHALL BE UNDERTAKEN. BACKFILL ADJACENT TO BOX CULVERTS SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH SPECIFICATION. DIFFERENTIAL FILL LEV ON BOTH SIDES OF THE CULVERT. DURING BACKFILL OPERATION SHALL NOT EXCEED 600 IN ACCORDANCE WITH CLAUSE 6.6 OF AS1597.2.
3. THE FOUNDATION CONDITION SHALL BE CONFIRMED BY THE GEOTECHNICAL ENGINEER. ON SITE VERIFICATION OF FOUNDATION CONDITION SHALL INCLUDE AN ASSESSMENT OF THE VARIABILITY OF NEAR SURFACE SOIL AT THE BASE OF THE CULVERT.
4. CAST IN-SITU CONCRETE EDGES SHALL BE CHAMFERED 20x20 AND RE-ENTRANT ANGLES FILLETED 20x20 UNLESS NOTED OTHERWISE.
5. WEEP HOLES TO BE COVERED BY SYNTHETIC MEMBRANE.
6. FOR SURFACE CHANNEL WORKS REFER DRAINAGE DESIGN PACKAGE DRAWINGS.
7. EXISTING FLOW SHALL BE MANAGED DURING CONSTRUCTION.
8. FILL SHALL BE PLACED UP TO CULVERT OBVERT LEVEL ADJACENT TO THE CULVERT AS CLOSE AS PRACTICABLE PRIOR TO CASTING THE BASE SLAB AND INSTALLING THE CULVERT UNITS. SUBSEQUENT FILLING SHALL BE THEN PLACED UNIFORMLY ADJACENT TO AND ON TOP OF THE CULVERT UNITS.
9. COMPACTION EQUIPMENT USED TO COMPACT THE SELECT BACKFILL MATERIAL WITHIN 1.5 METRES BEHIND THE WINGWALL AND HEADWALL SHALL BE LIMITED TO A PEDESTRIAN ROLLER OR PLATE COMPACTOR. LEVEL OF COMPACTION TO BE ACHIEVED IN ACCORDANCE WITH SPECIFICATION.
10. ALL PRECAST UNITS TO BE DESIGNED BY MANUFACTURER.
11. LIFTING LUGS IN PRECAST ELEMENTS, IF ANY, SHALL BE SEALED TO PREVENT CORROSION.
12. ALL PRECAST UNITS TO BE 2440 LONG.

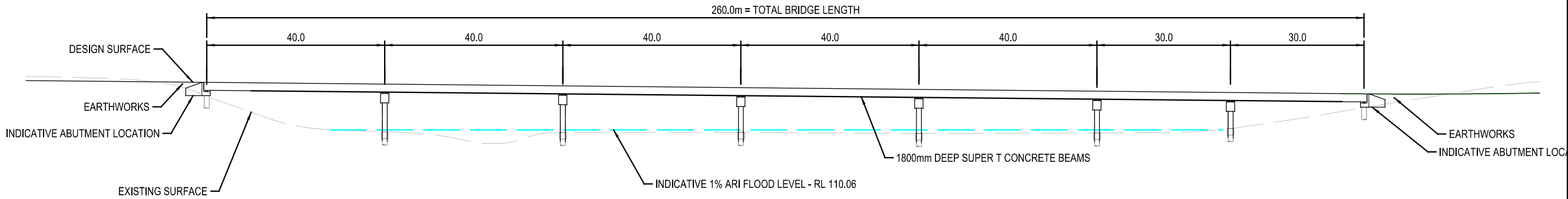
WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



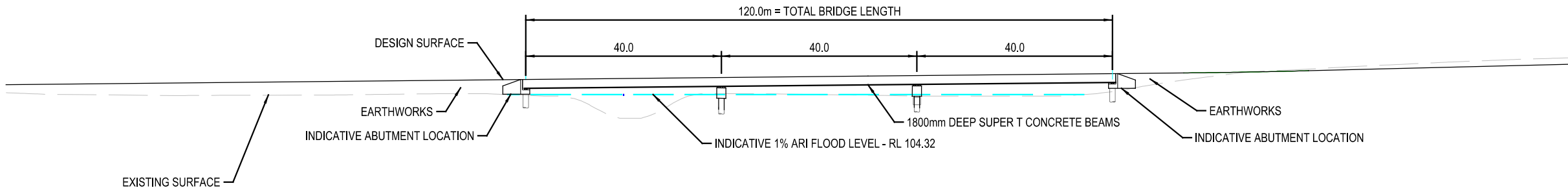
FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN CULVERT & WATERWAY CROSSING TYPICAL DETAILS					
C	AD	17.01.25	FINAL CONCEPT DESIGN			APPROVED A DONATO								
B	AD	09.12.24	FINAL CONCEPT DESIGN											
A	AD	08.10.24	DRAFT CONCEPT DESIGN											
ISSUE	APP'D	DATE	AMENDMENT											
						CAT: PROJ: FILE: 30049249--8001.dgn		SCALE OF METRES HOR  VER 		FILE NO. 30049249	CONTRACT NO.	SHEET NO. 91	DRAWING NO. -8001	ISSUE C

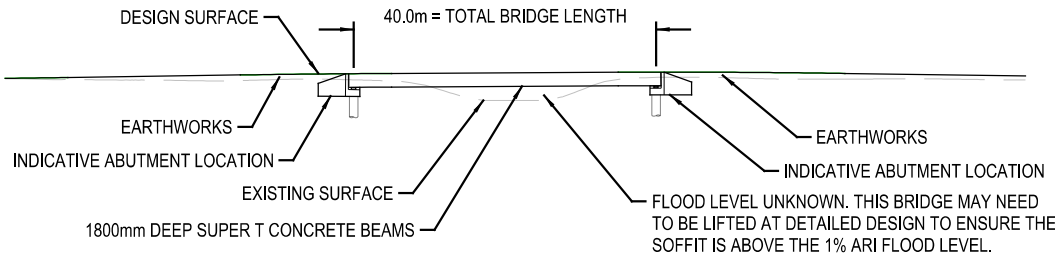
BRIDGE 01 - TARLETONS ROAD (MC02)



BRIDGE 02 - PAYNES ROAD (MC05)



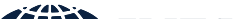
BRIDGE 03- LEAKES ROAD (MC06)



WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



FINAL DESIGN

				GENERAL NOTES	 Member of the Surbana Jurong Group	DESIGNED H DADWAL		 Victorian Planning Authority	MELTON EAST PSP VICTORIAN PLANNING AUTHORITY GENERAL ALIGNMENT PLAN BRIDGE ELEVATIONS STRUCTURAL TYPICAL DETAILS				
						APPROVED A DONATO							
A	AD	17.01.25	FINAL CONCEPT DESIGN			CAT: PROJ: FILE: 30049249--9001.dgn		SCALE OF METRES HOR VER	FILE NO. 30049249	CONTRACT NO.	SHEET NO. 92	DRAWING NO. -9001	ISSUE A
ISSUE	APP'D	DATE	AMENDMENT										

Appendix B

Detailed Cross-sections

R.L. 139	
DESIGN FEATURES	
DESIGN LEVELS	
EXISTING LEVELS	
DESIGN OFFSETS	

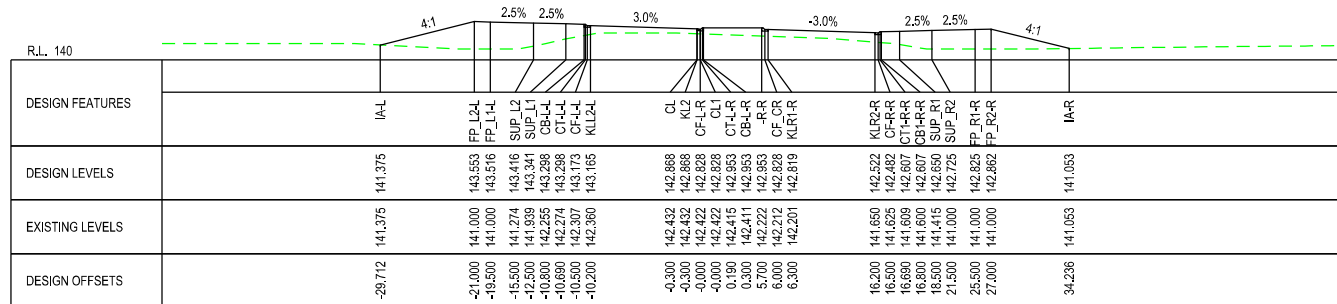
1200.000

R.L. 138	
DESIGN FEATURES	
DESIGN LEVELS	IA-L FP_L2-L FP_L1-L SUP_L2 SUP_L1 CB-L-L CT-L-L CF-L-L KL2-L CL-L CL3 CF-L-R CT-L-R CB-L-R -R-R CF-CR KLR-HR KLR2-R CF-R-R CT-L-R-R CB-L-R-R SUP_R1 SUP_R2 FP_R1-R FP_R2-R IA-R
DESIGN LEVELS	139.500 140.524 140.469 140.399 140.324 140.281 140.281 140.196 140.196 140.132 140.499 140.508 140.706 140.714 140.839 140.839 140.839 140.706 140.409 140.369 140.404 140.494 140.494 140.536 140.611 140.711 140.749 139.510
EXISTING LEVELS	139.500 139.527 139.582 139.800 139.964 140.084 140.093 140.108 140.132 140.500 140.500 140.500 140.500 140.500 140.500 140.500 140.500 140.063 140.044 140.032 140.026 140.026 139.873 139.585 140.511 139.500 139.500 139.510
DESIGN OFFSETS	-24.800 -20.705 -19.705 -15.705 -12.705 -11.005 -10.895 -10.705 -10.405 -4.300 0.000 6.881 6.881 7.071 7.181 7.945 8.245 8.545 18.451 18.751 18.941 19.051 20.751 23.751 27.751 29.251 34.203

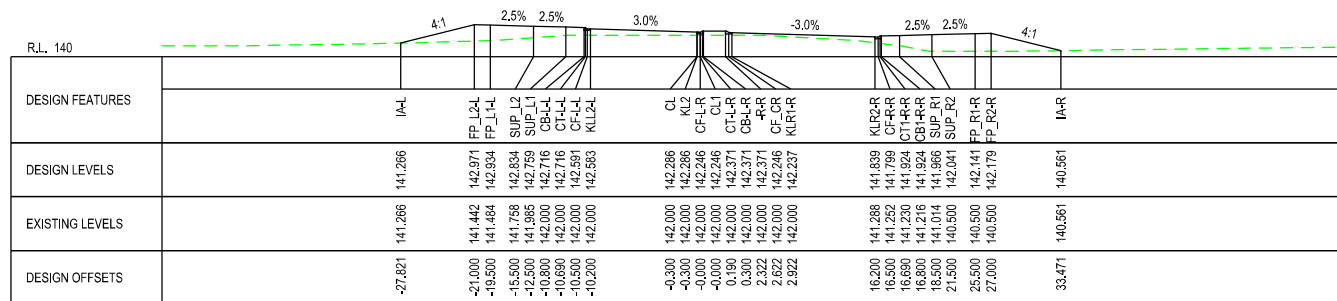
1100.000

R.L. 139	
DESIGN FEATURES	
DESIGN LEVELS	IA-L FP_L2-L FP_L1-L SUP_L2 SUP_L1 CB-L-L CT-L-L CF-L-L KL2-L CL KL2 CF-L-R CT-L-R CB-L-R -R-R CF-CR KLR-HR KLR2-R CF-R-R CT-L-R-R CB-L-R-R SUP_R1 SUP_R2 FP_R1-R FP_R2-R IA-R
DESIGN LEVELS	139.961 140.892 140.857 140.857 140.782 140.740 140.740 140.615 140.655 140.952 140.952 140.961 140.961 140.961 141.086 141.086 141.086 140.961 140.952 140.655 140.535 140.522 140.513 140.740 140.740 140.782 140.857 140.957 140.995 139.665
EXISTING LEVELS	139.961 139.994 140.014 140.350 140.201 140.353 140.446 140.740 140.452 140.615 140.479 140.947 140.947 140.961 140.961 140.961 141.086 141.086 141.086 140.974 140.952 140.535 140.522 140.513 140.740 140.509 140.347 140.341 139.722 140.957 139.665
DESIGN OFFSETS	-24.586 -20.500 -19.500 -15.500 -12.500 -10.800 -10.690 -10.500 -10.200 -4.300 -4.300 -4.000 -4.000 0.190 0.190 5.700 6.000 6.300 16.200 16.500 16.690 16.800 18.500 21.500 25.500 27.000 32.318

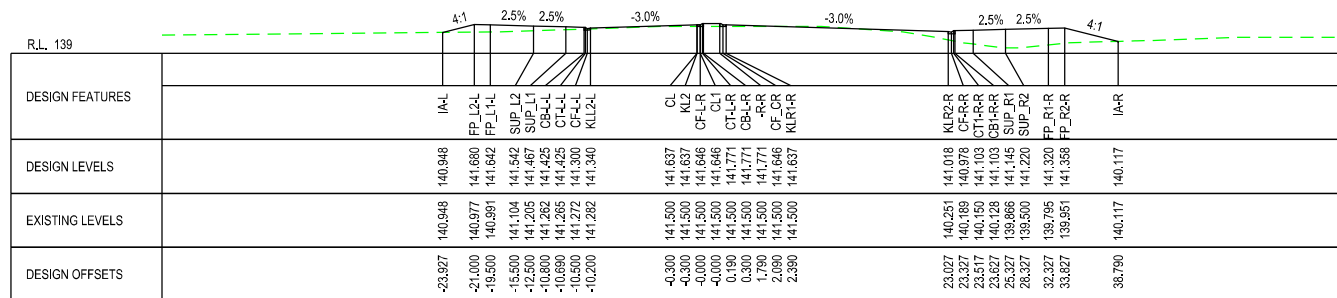
1000.000



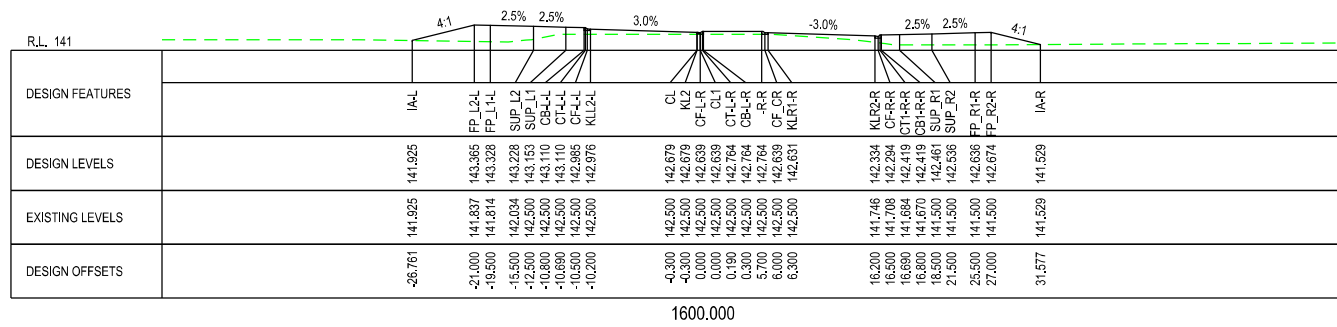
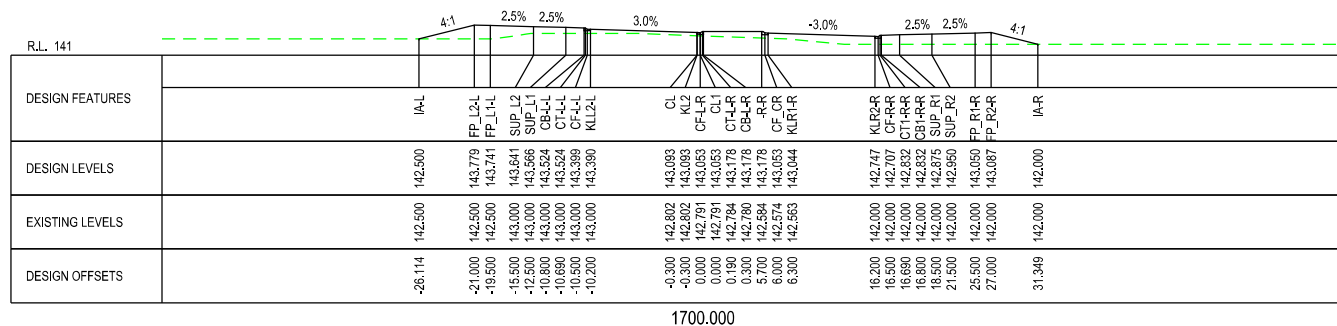
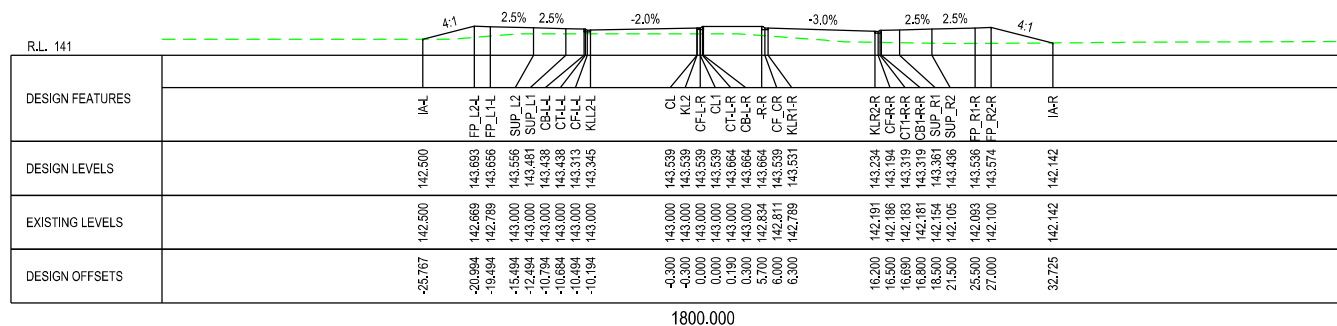
1500.000

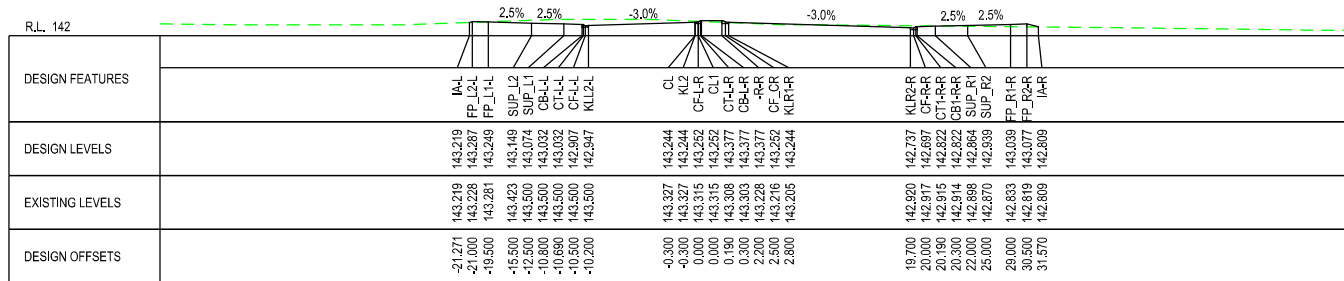


1400.000

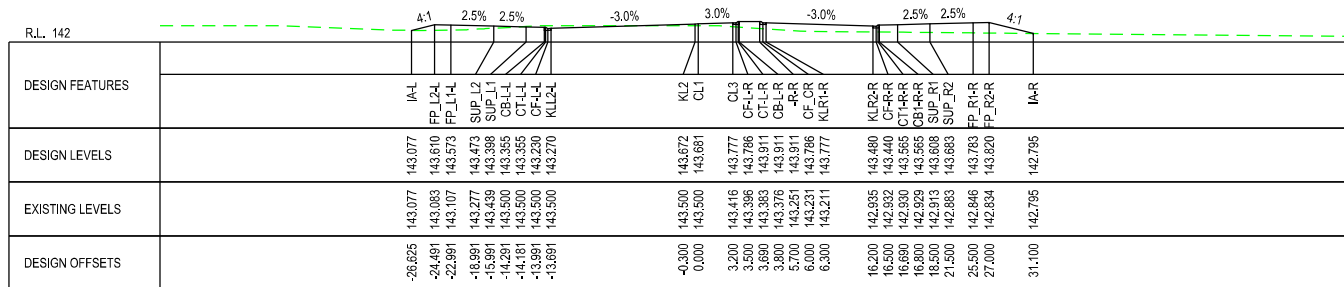


1300.000

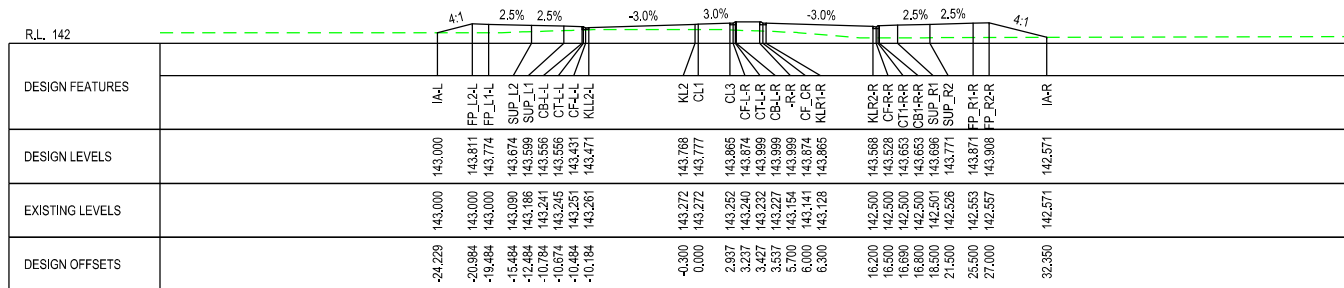




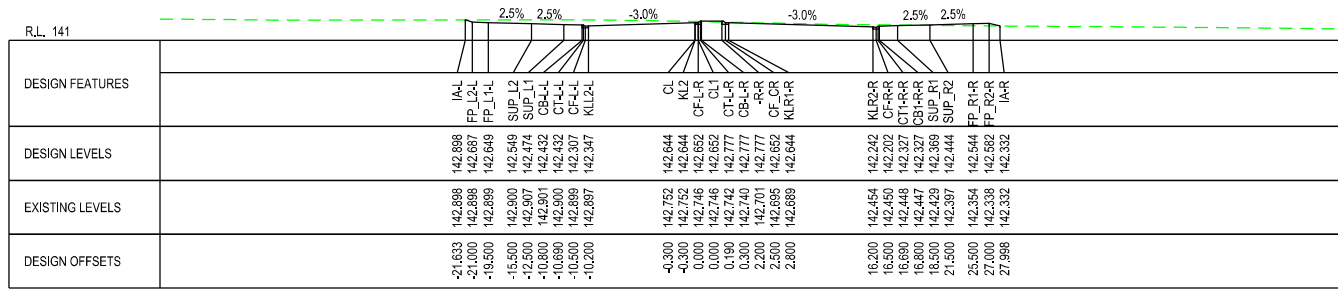
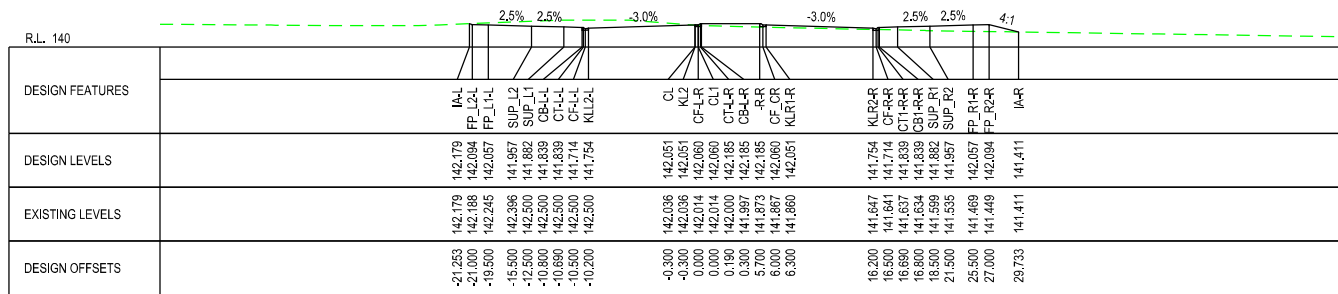
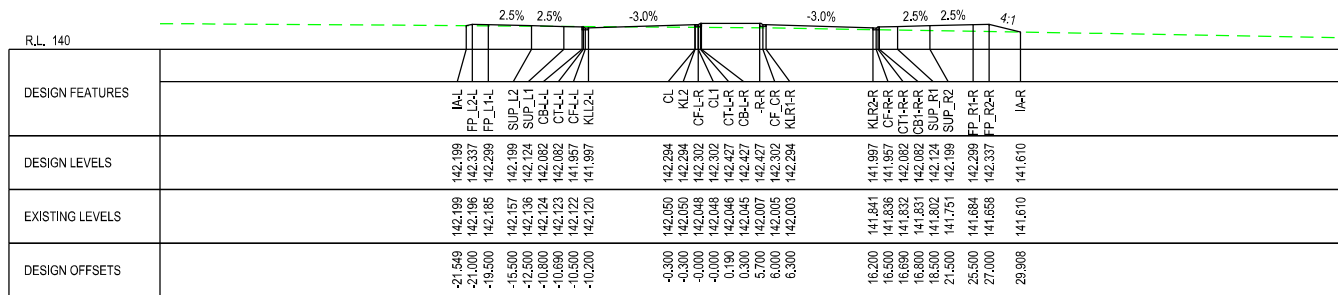
2100.000

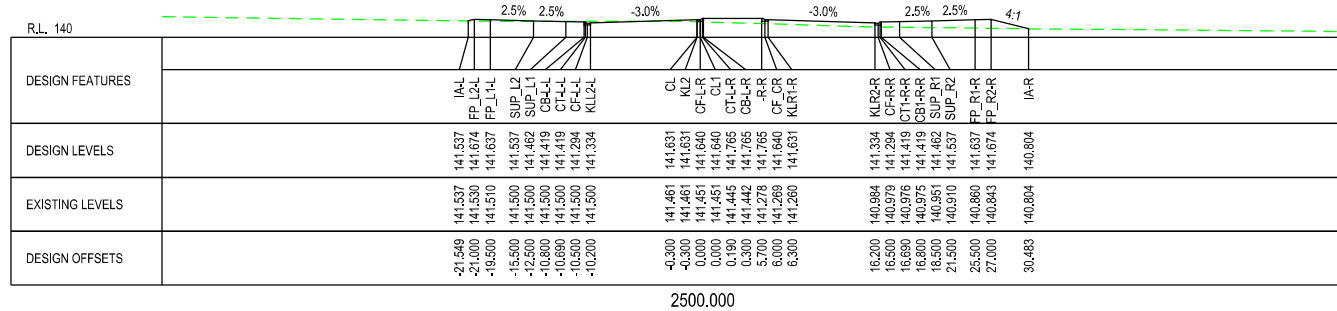
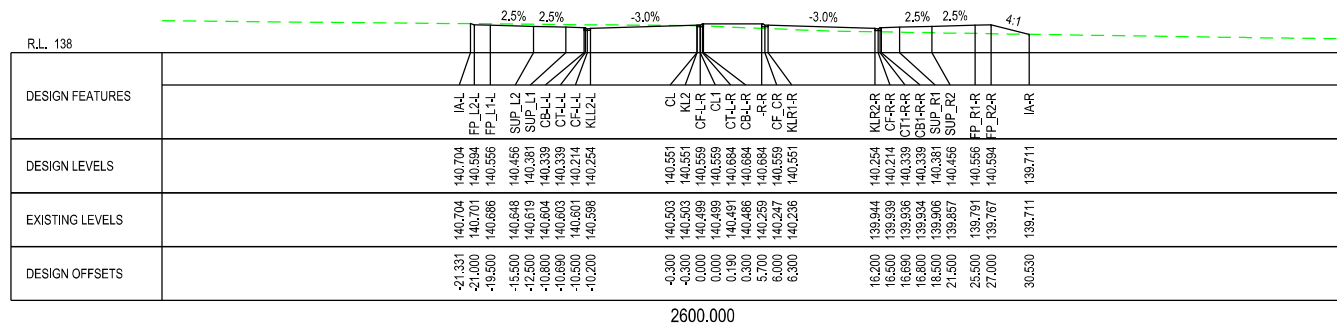
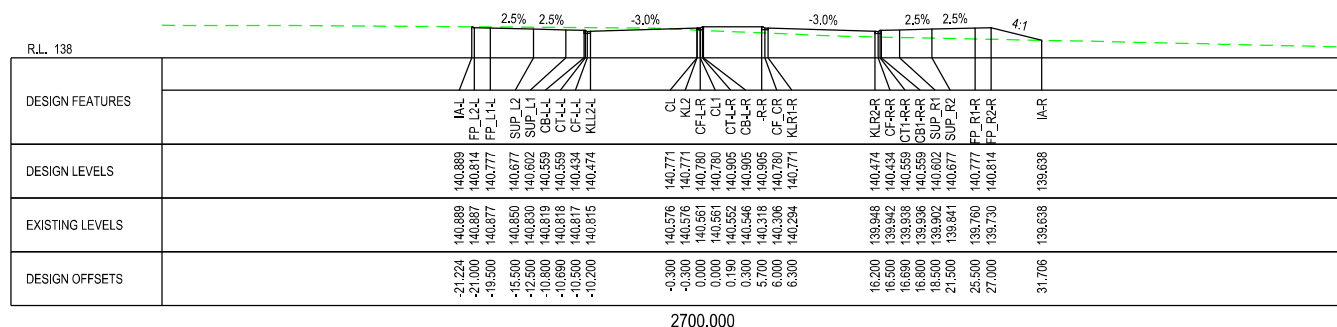


2000.000

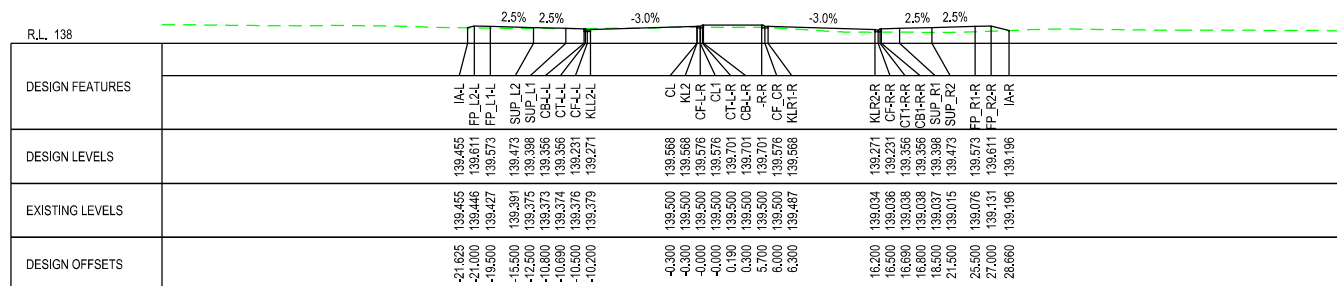
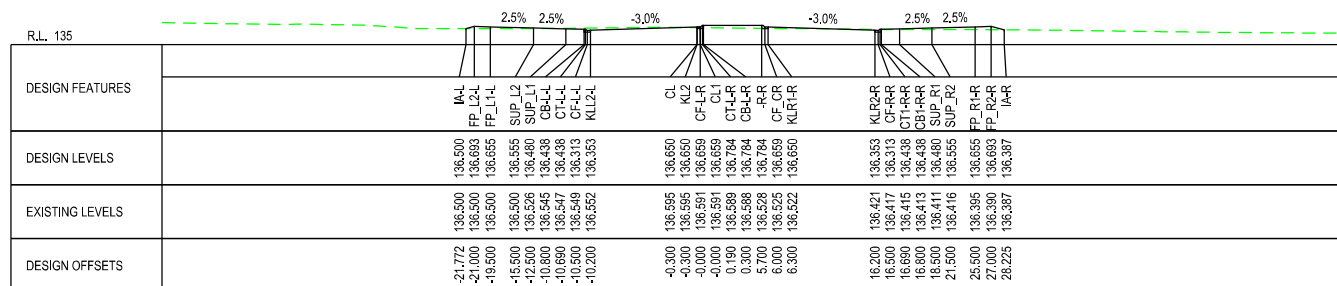
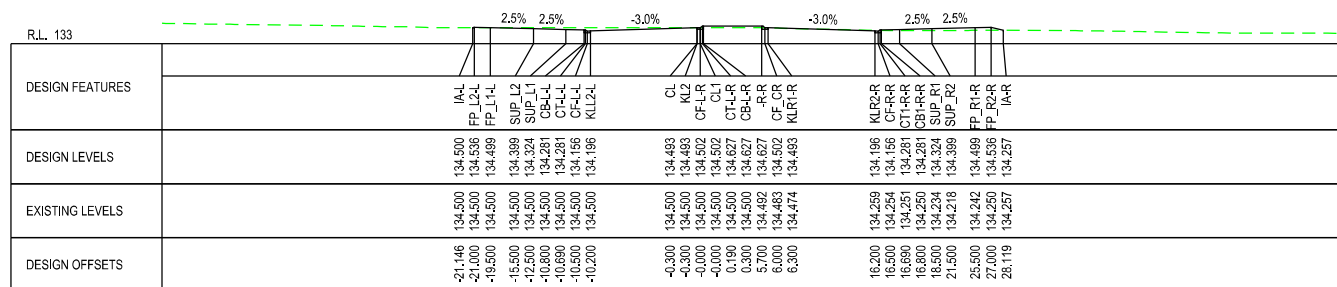


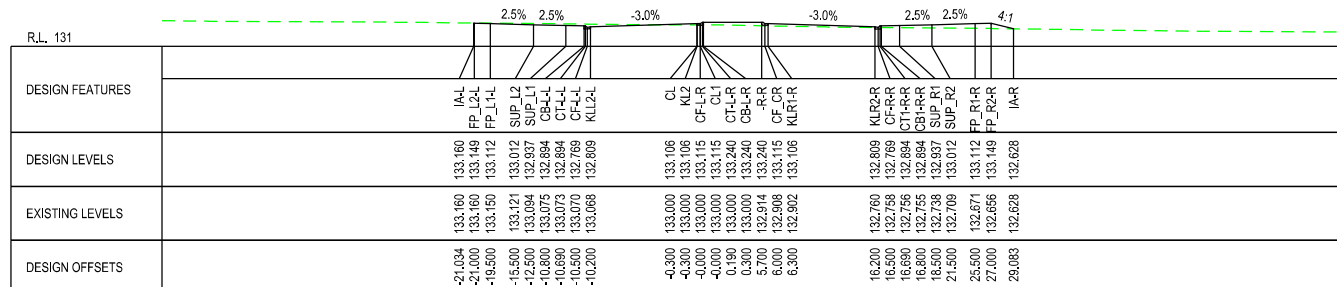
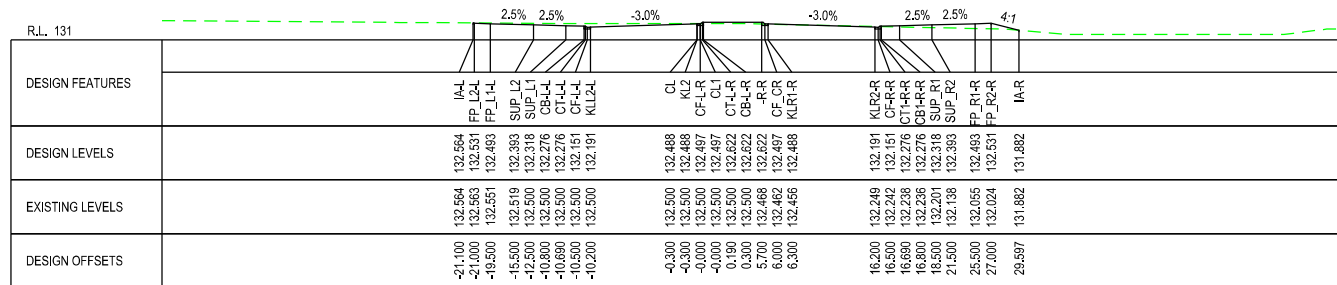
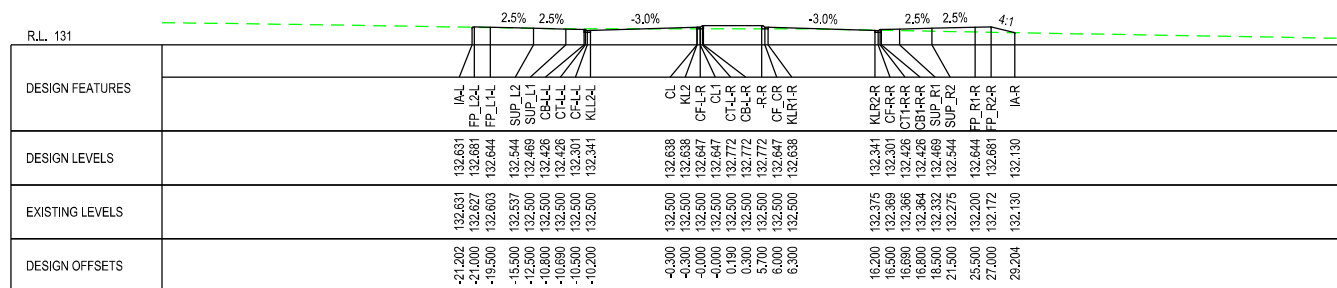
1900.000

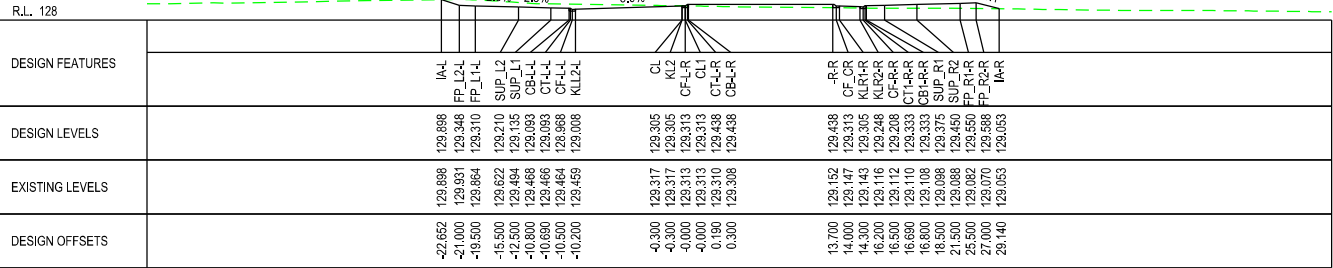




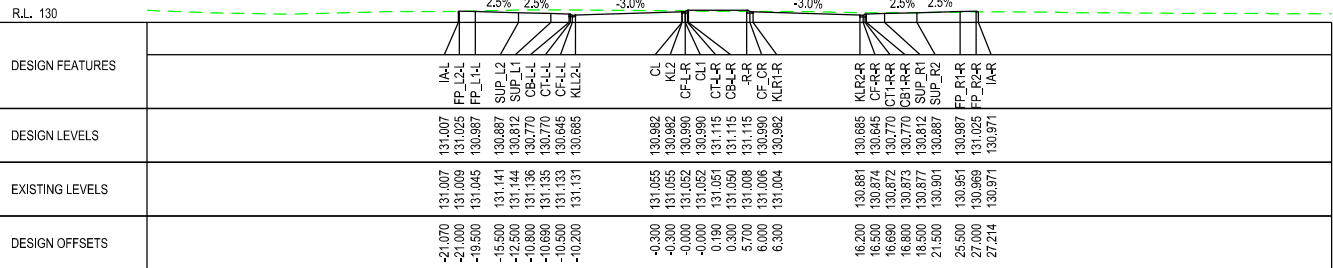




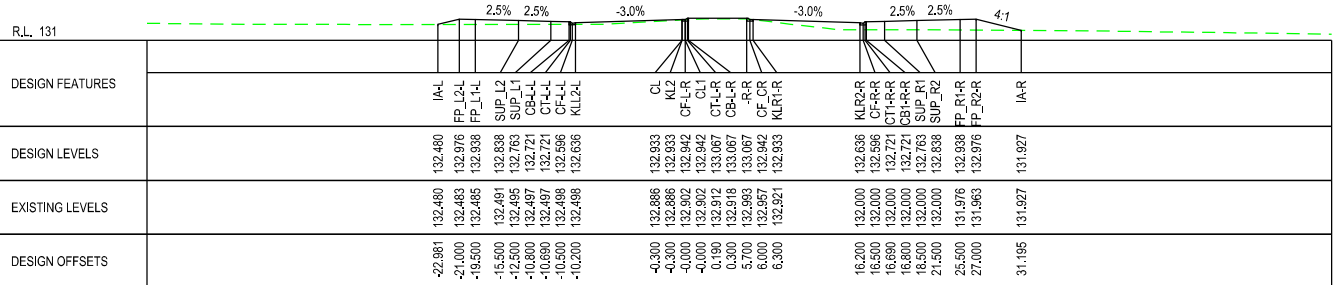




3869.880



3800.000



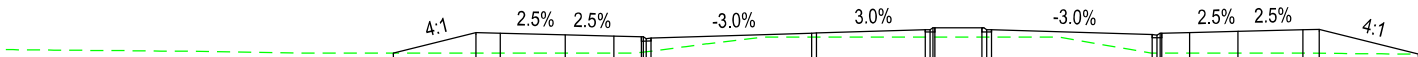
3700.000

R.L. 139

DESIGN FEATURES	
DESIGN LEVELS	
EXISTING LEVELS	
DESIGN OFFSETS	

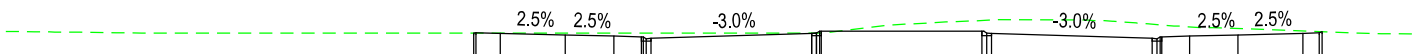
2200.000

R.L. 138

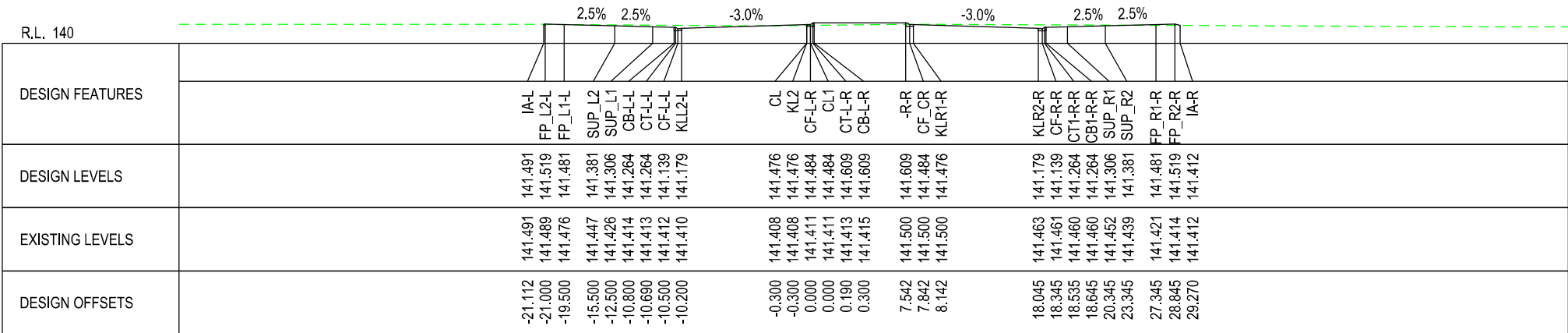
DESIGN FEATURES																												
	IA-L	FP_L2-L	FP_L1-L	SUP_L2	SUP_L1	CB-L-L	CT-L-L	CF-L-L	KLL2-L	KL2	CL1	CL3	CF-L-R	CT-L-R	CB-L-R	-R-R	CF_CR	KLR1-R	KLR2-R	CF-R-R	CT1-R-R	CB1-R-R	SUP_R1	SUP_R2	FP_R1-R	FP_R2-R	IA-R	
DESIGN LEVELS	139.500	140.773	140.736	140.636	140.561	140.518	140.518	140.518	140.433	140.730	140.739	140.940	140.949	141.074	141.074	141.074	140.949	140.940	140.643	140.603	140.728	140.728	140.771	140.846	140.946	140.971	139.438	
EXISTING LEVELS	139.500	139.500	139.500	139.500	139.500	139.551	139.564	139.587	139.623	140.500	140.500	140.500	140.500	140.500	140.500	140.500	140.500	140.500	139.500	139.500	139.500	139.500	139.500	139.500	139.500	139.492	139.438	
DESIGN OFFSETS	-26.092	-21.000	-19.500	-15.500	-12.500	-10.800	-10.690	-10.500	-10.200	-0.300	0.000	6.700	7.000	7.190	7.300	10.200	10.500	10.800	20.700	21.000	21.190	21.300	23.000	26.000	30.000	31.000	37.130	

2100.000

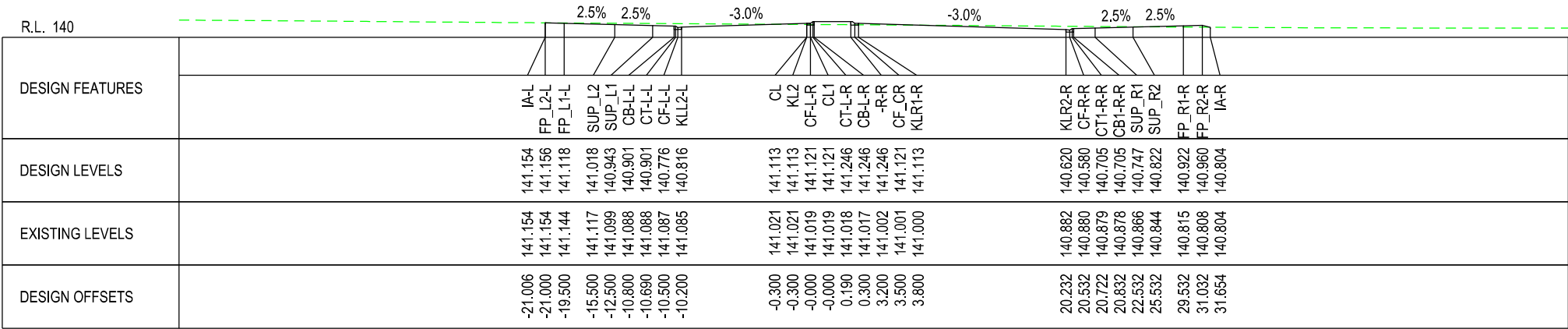
R.L. 137

DESIGN FEATURES																										
	IA-L	FP_L2-L	FP_L1-L	SUP_L2	SUP_L1	CB-L-L	CT-L-L	CF-L-L	KLL2-L	CL	KL2	CF-L-R	CT-L-R	CB-L-R	-R-R	CF_CR	KLR1-R	KLR2-R	CF-R-R	CT1-R-R	CB1-R-R	SUP_R1	SUP_R2	FP_R1-R	FP_R2-R	IA-R
DESIGN LEVELS	138.500	138.534	138.497	138.397	138.322	138.279	138.279	138.279	138.154	138.491	138.491	138.500	138.500	138.625	138.625	138.625	138.491	138.194	138.154	138.279	138.279	138.322	138.397	138.497	138.522	138.585
EXISTING LEVELS	138.500	138.500	138.500	138.500	138.500	138.500	138.500	138.500	138.500	138.500	138.500	138.500	138.500	138.500	138.500	138.500	138.500	139.051	139.026	139.010	139.001	138.895	138.782	138.631	138.592	138.585
DESIGN OFFSETS	-21.137	-21.000	-19.500	-15.500	-12.500	-10.800	-10.690	-10.500	-10.200	-0.300	-0.300	0.000	0.000	0.190	0.300	10.200	10.500	10.800	20.700	21.000	21.190	21.300	23.000	26.000	30.000	31.189

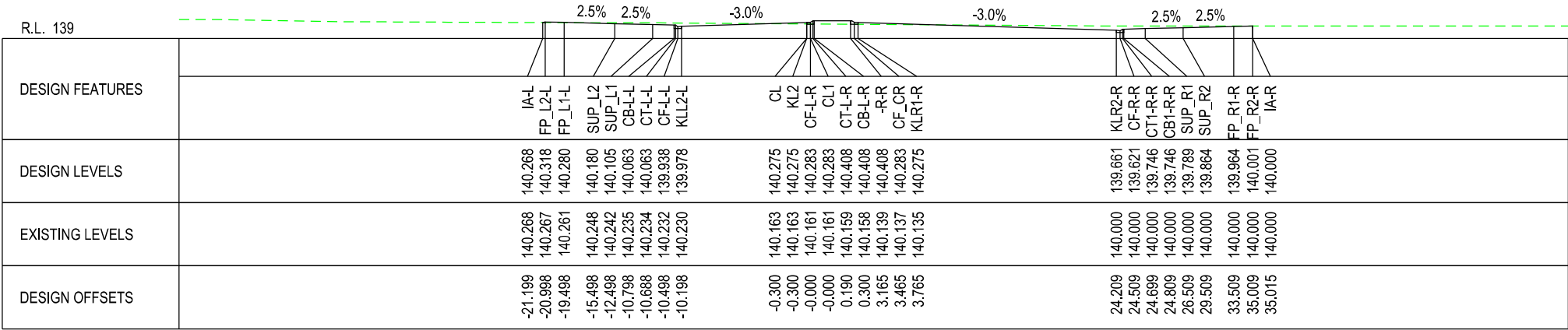
2000.000



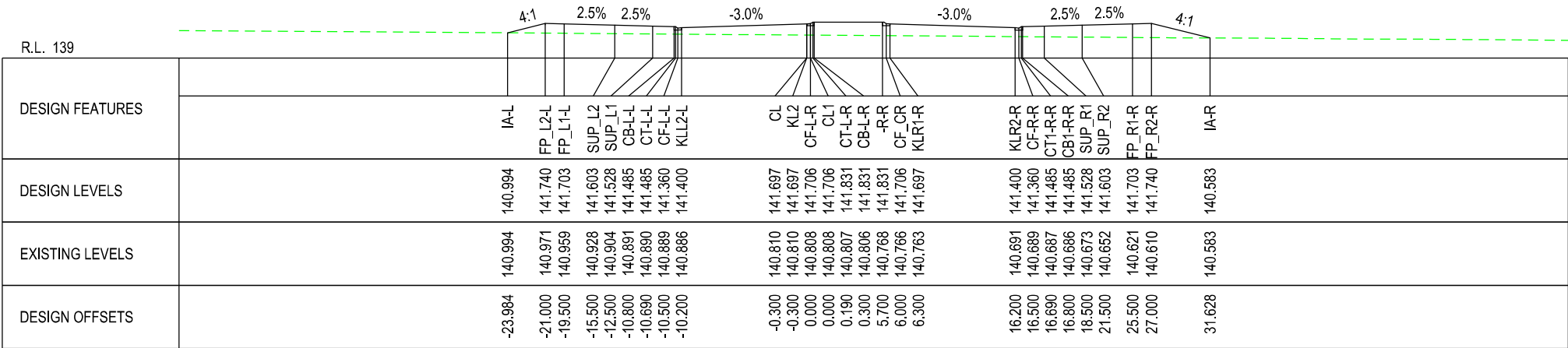
2500.000



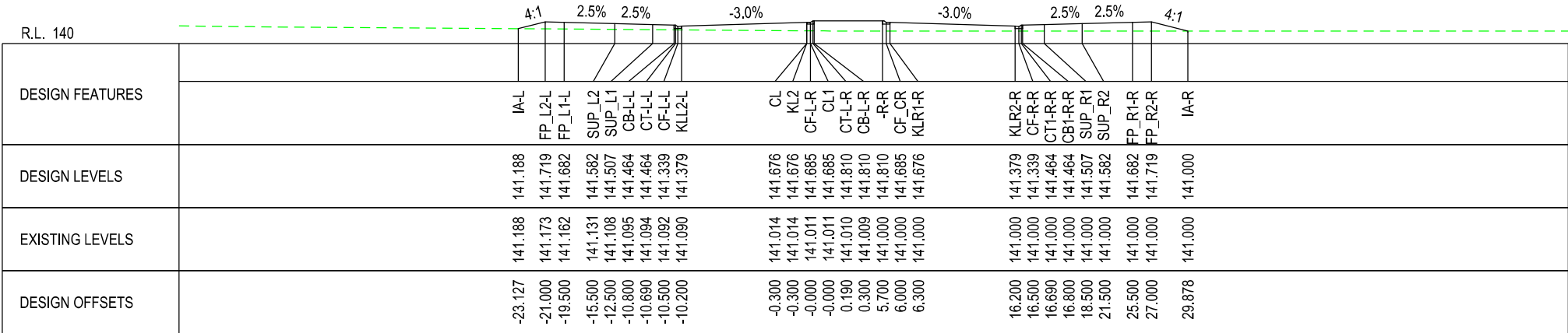
2400.000



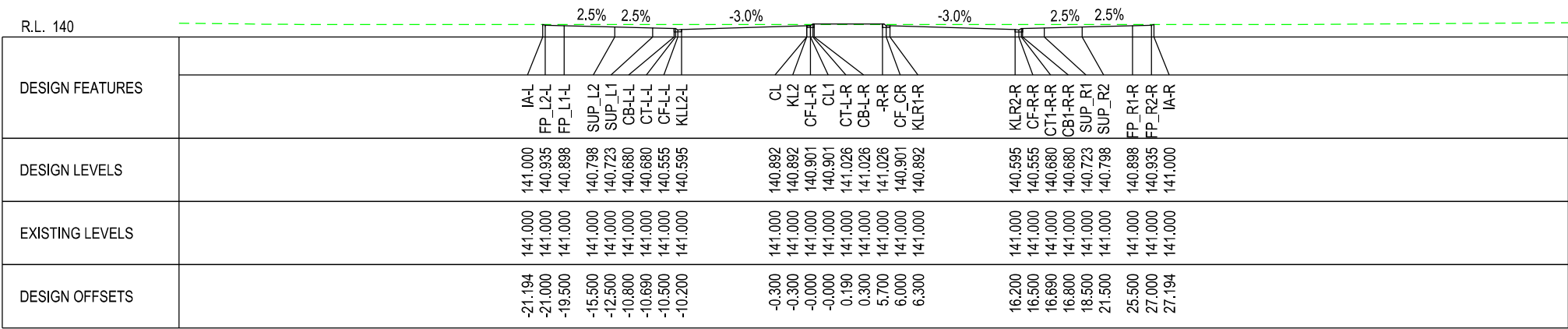
2300.000



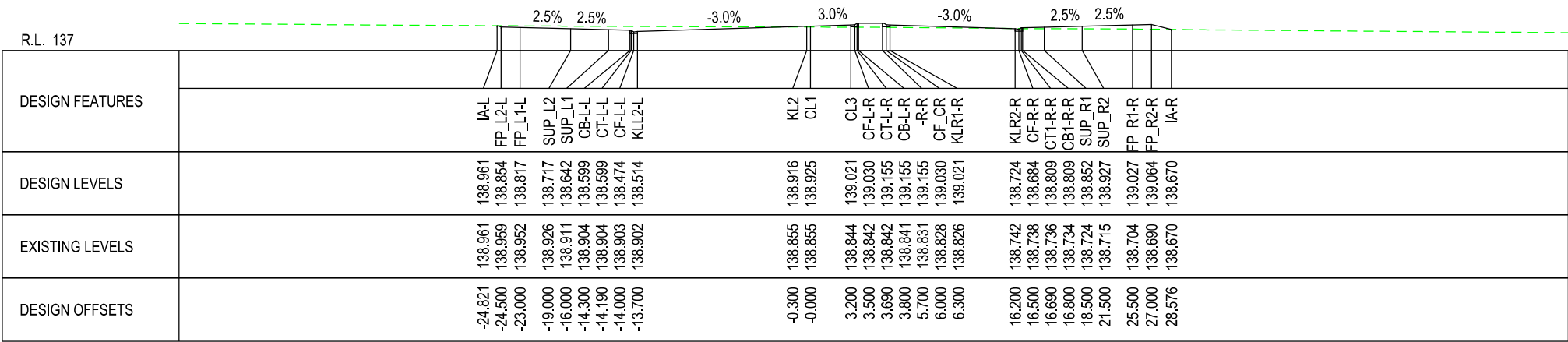
2800.000



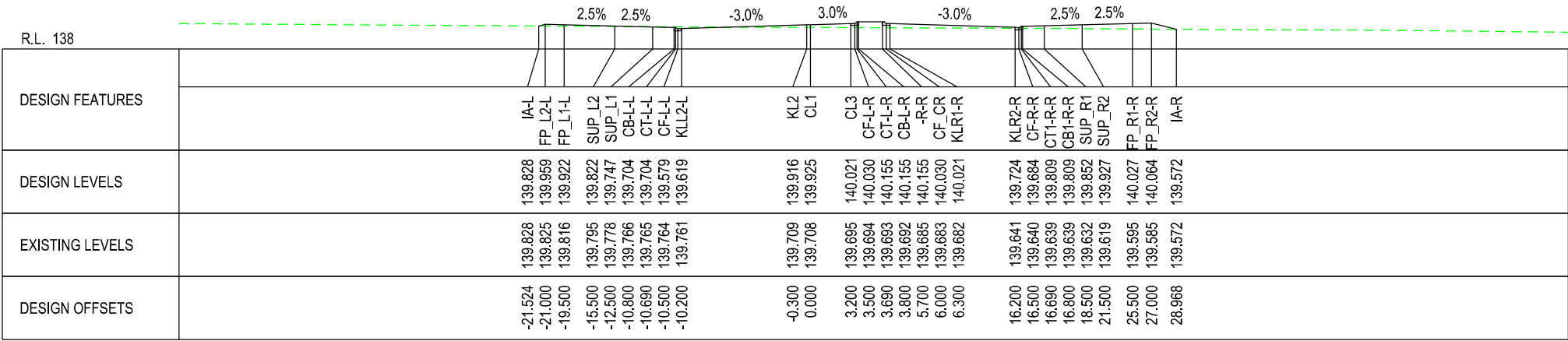
2700.000



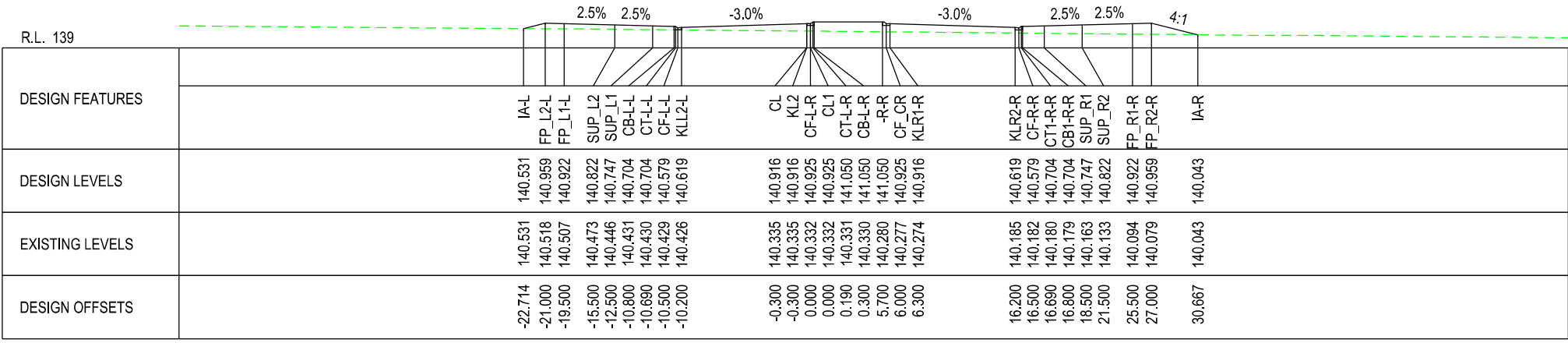
2600.000



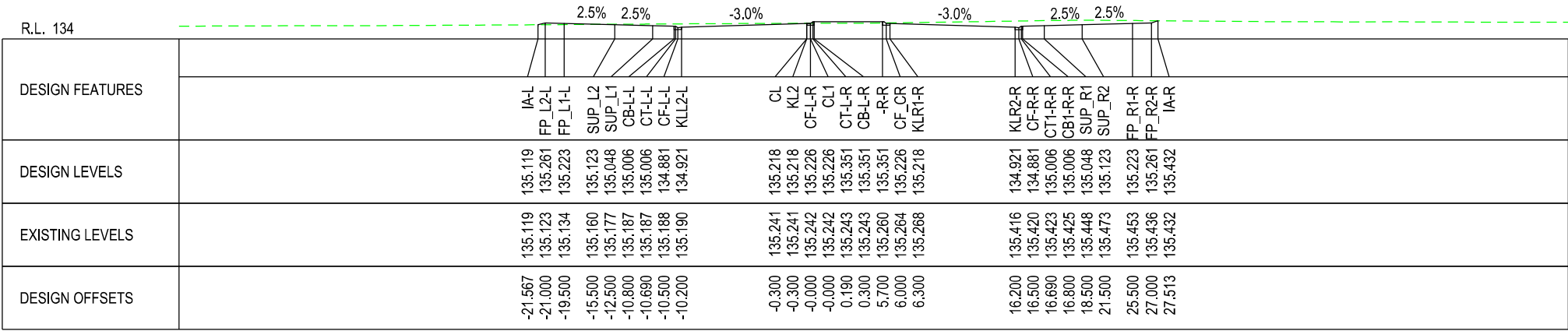
3100.000



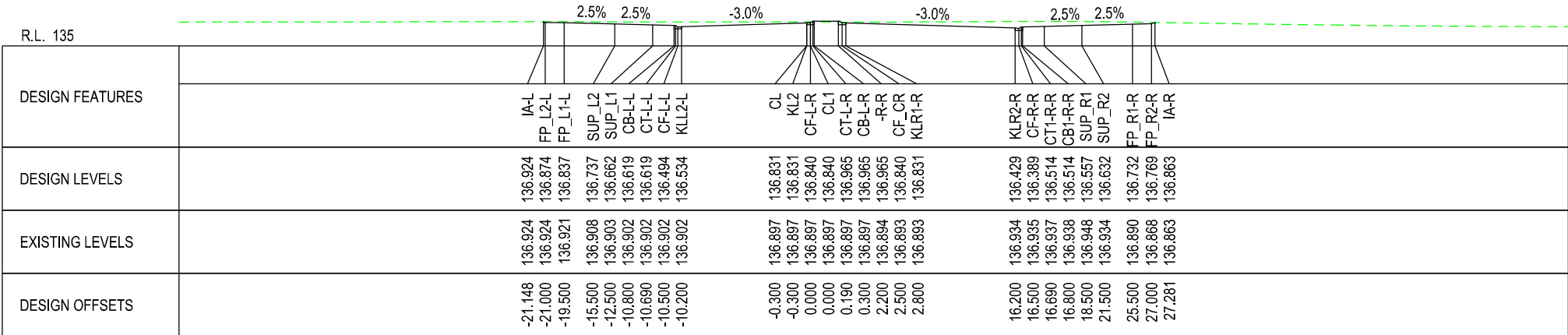
3000.000



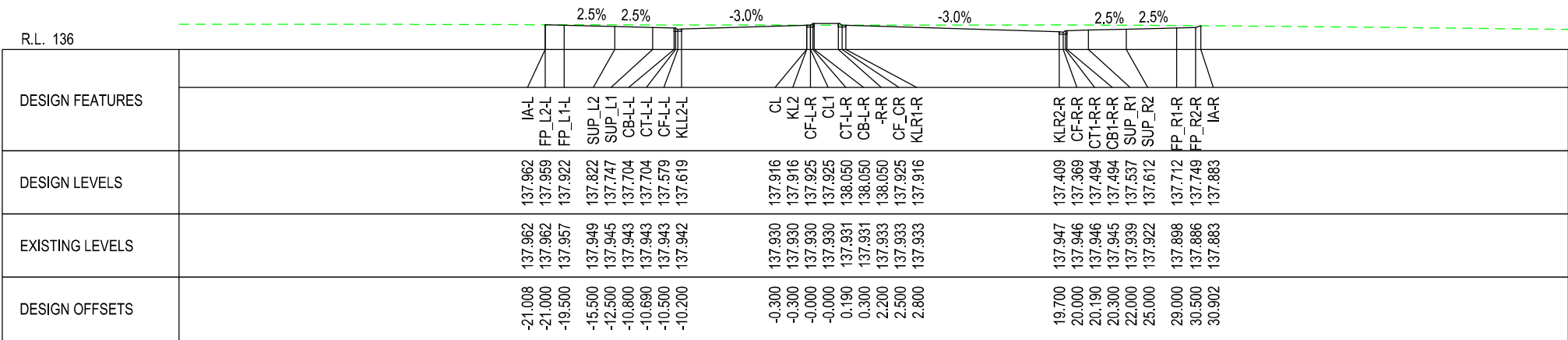
2900.000



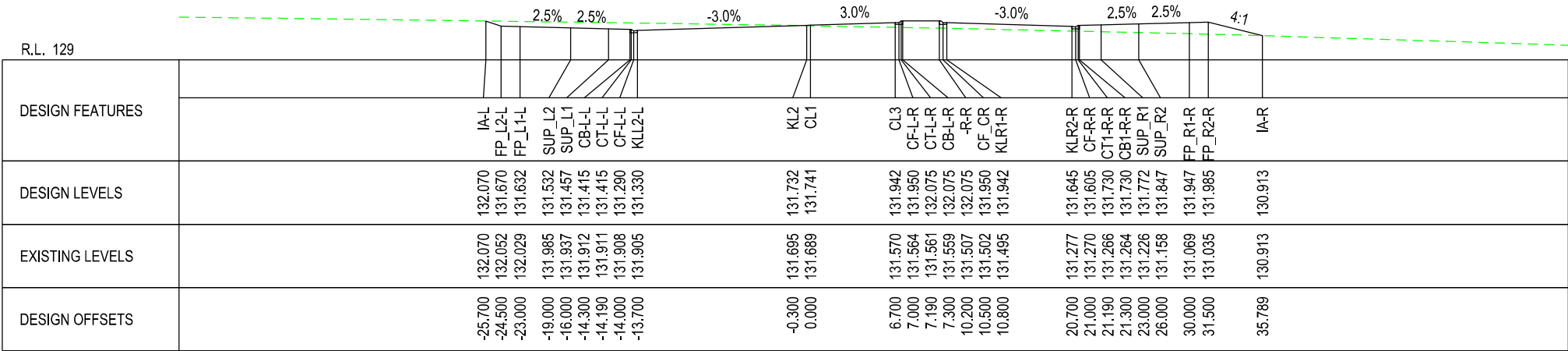
3400.000



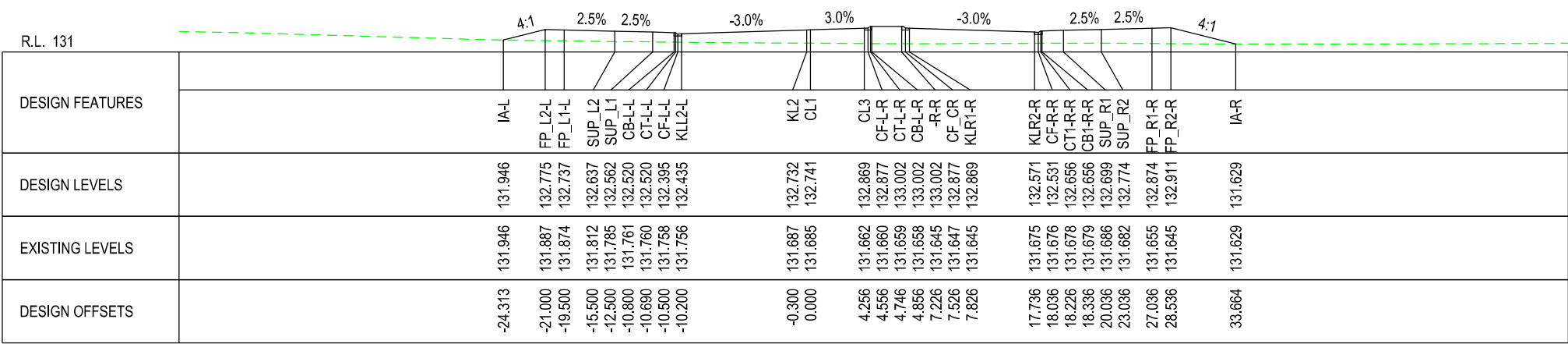
3300.000



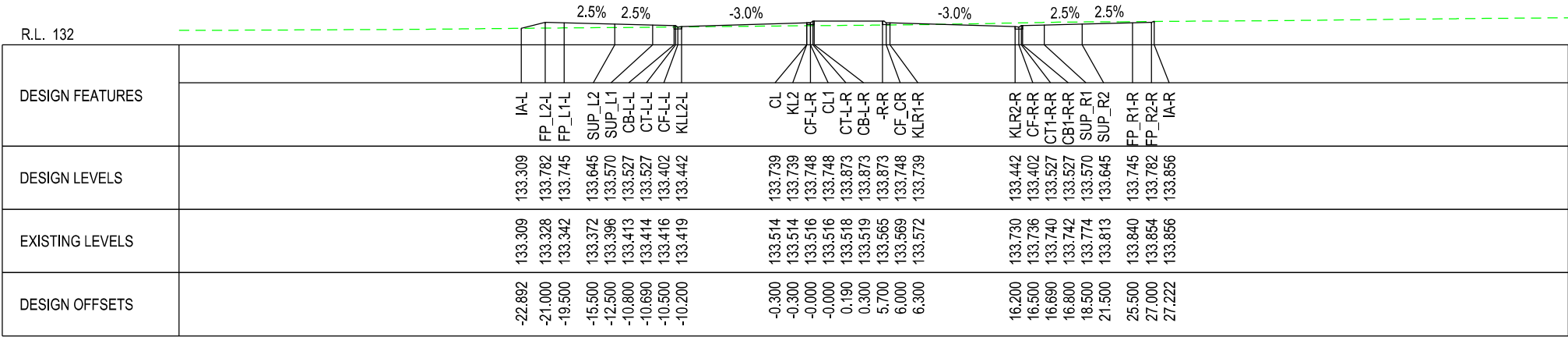
3200.000



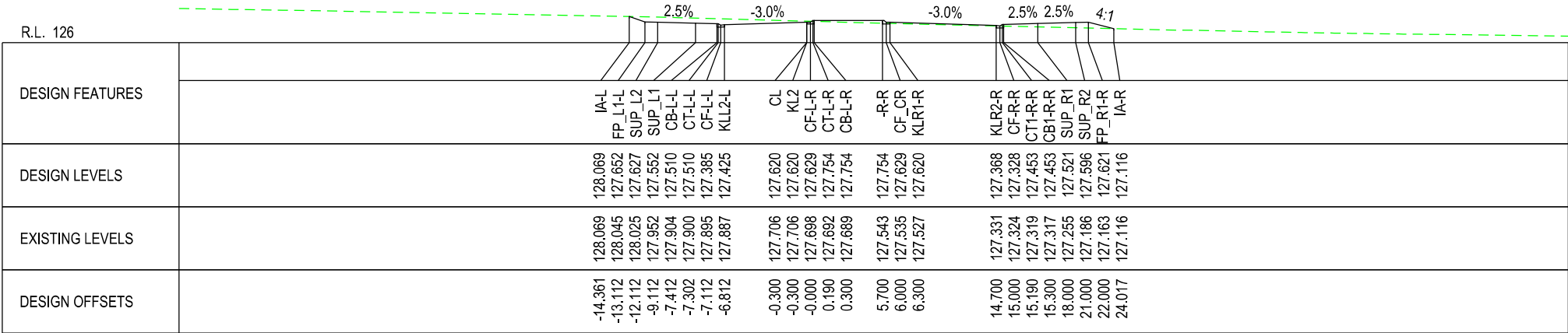
3700.000



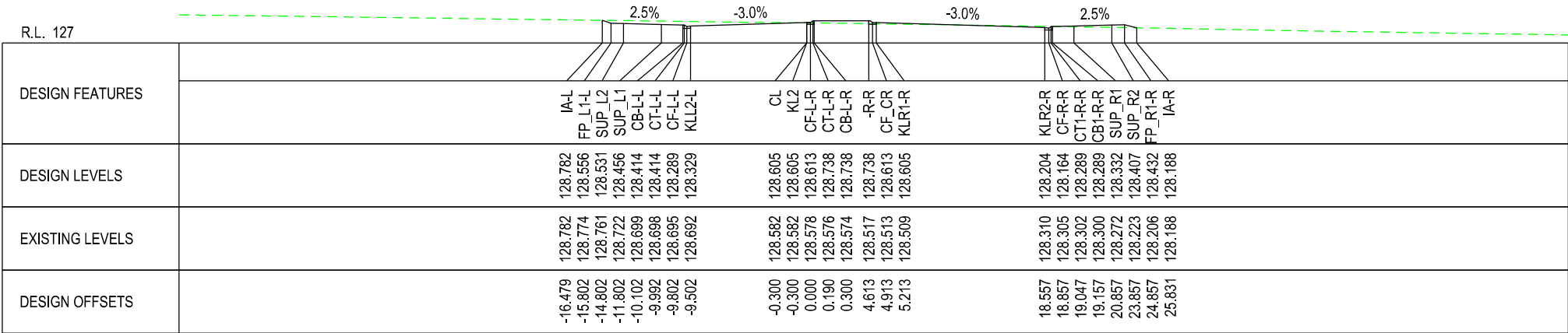
3600.000



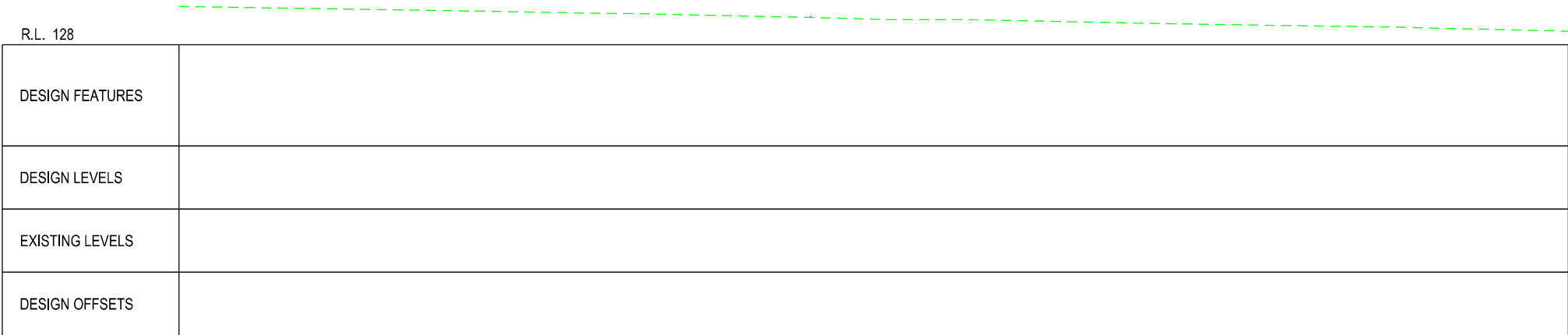
3500.000



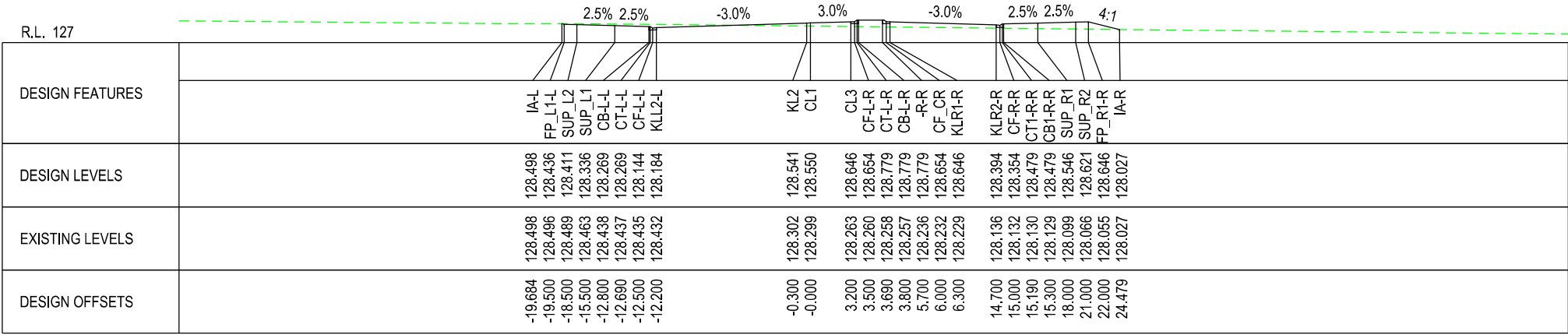
4000.000



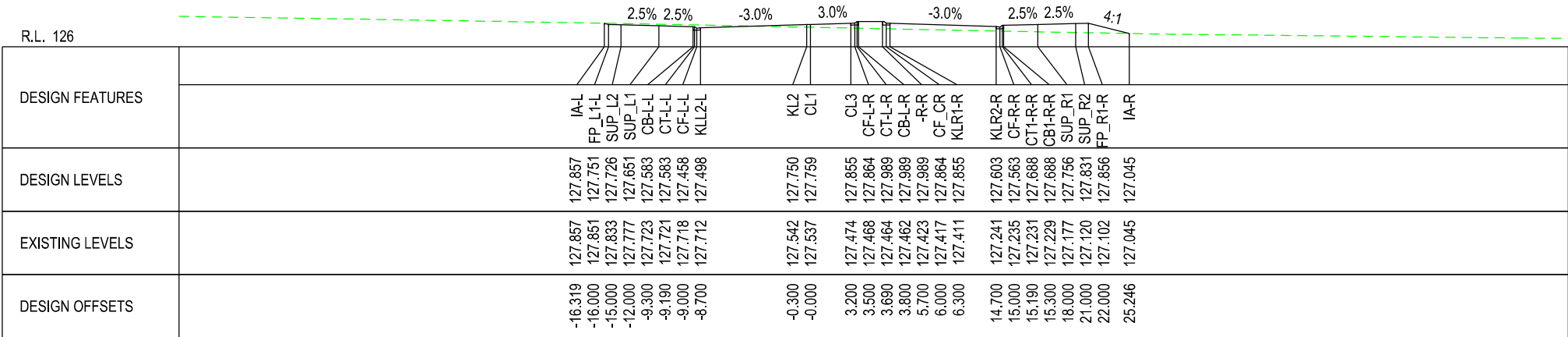
3900.000



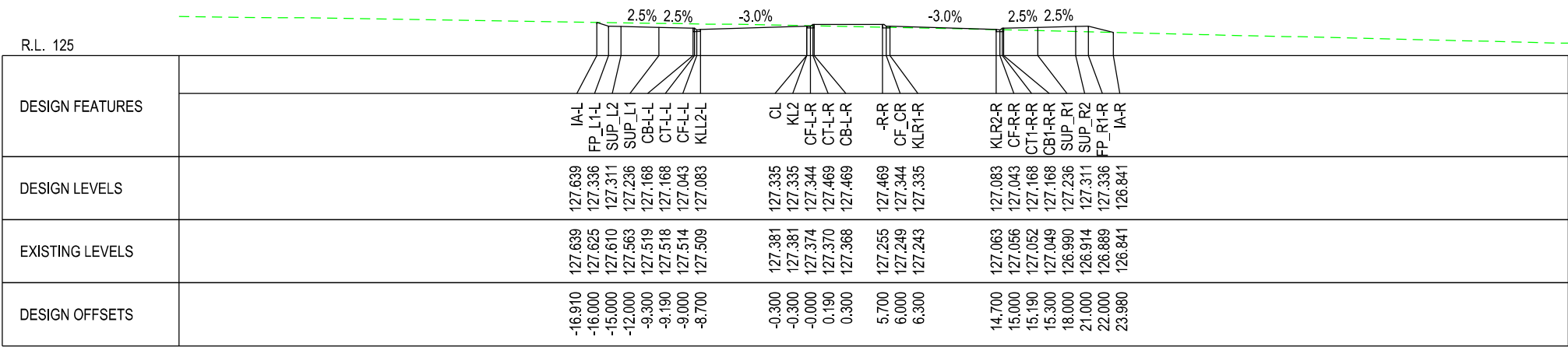
3800.000



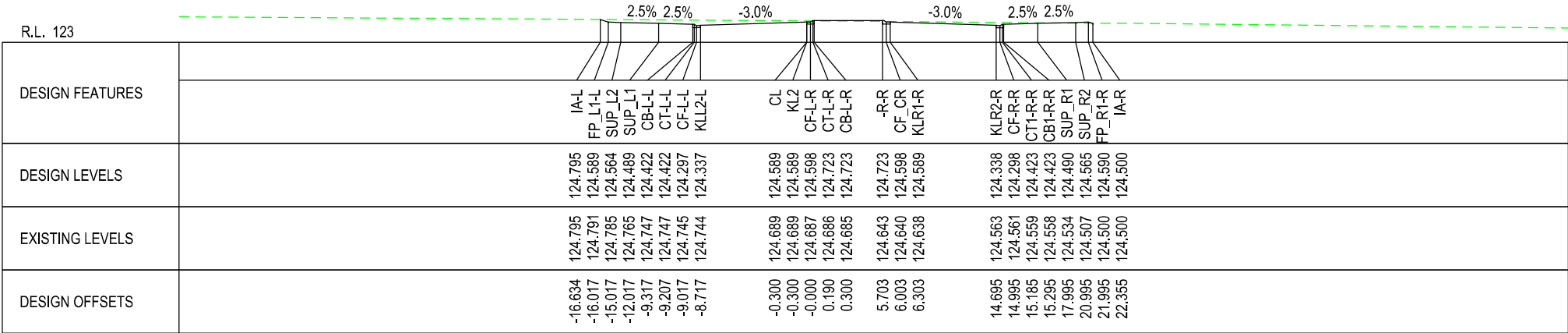
4300.000



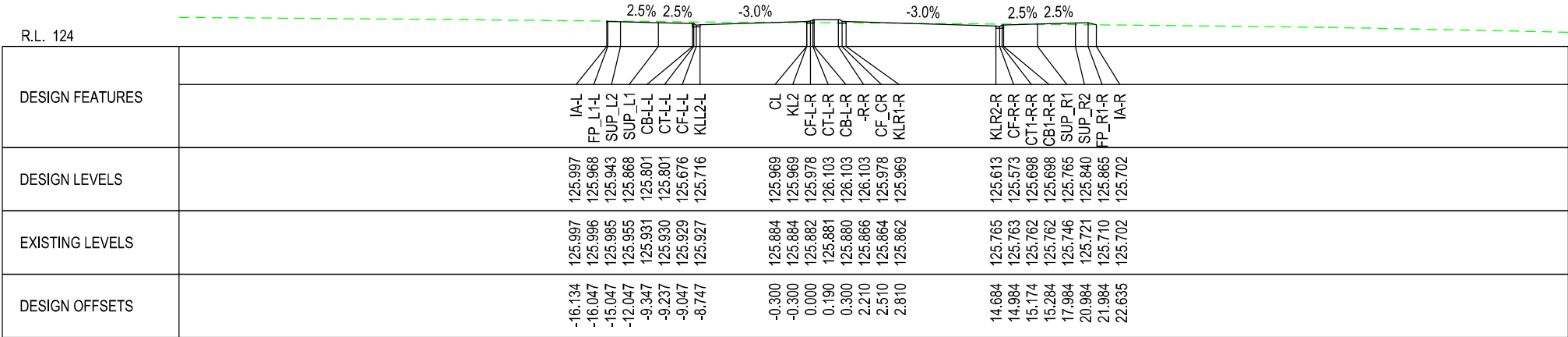
4200.000



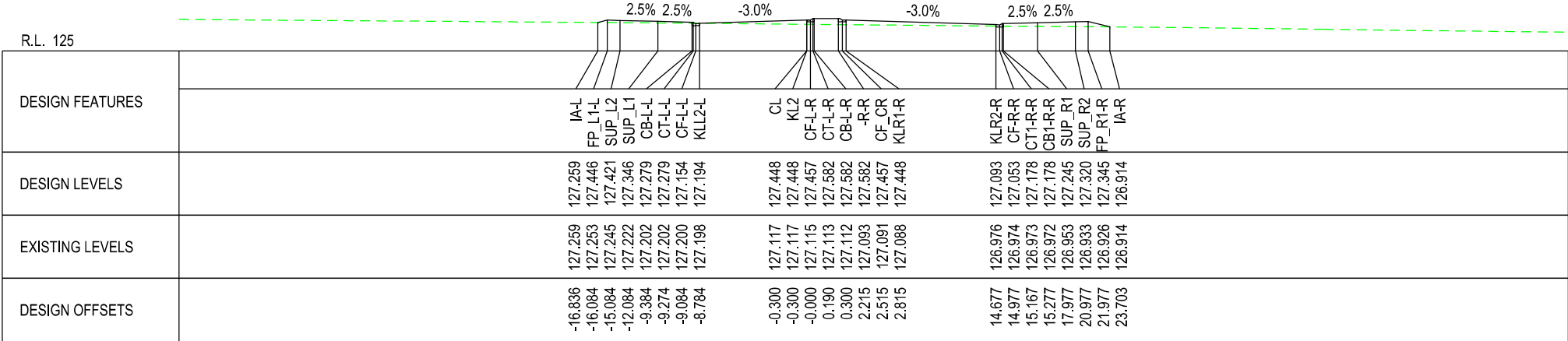
4100.000



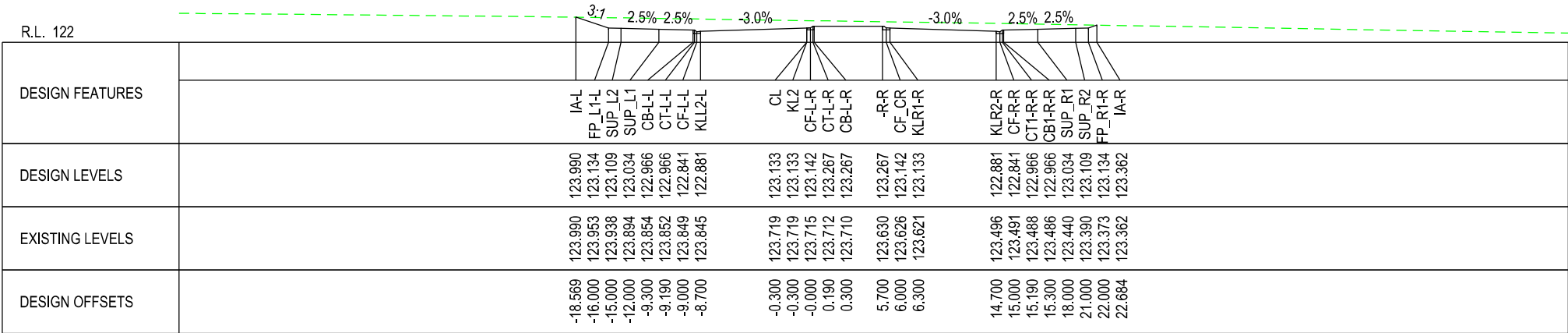
4600.000



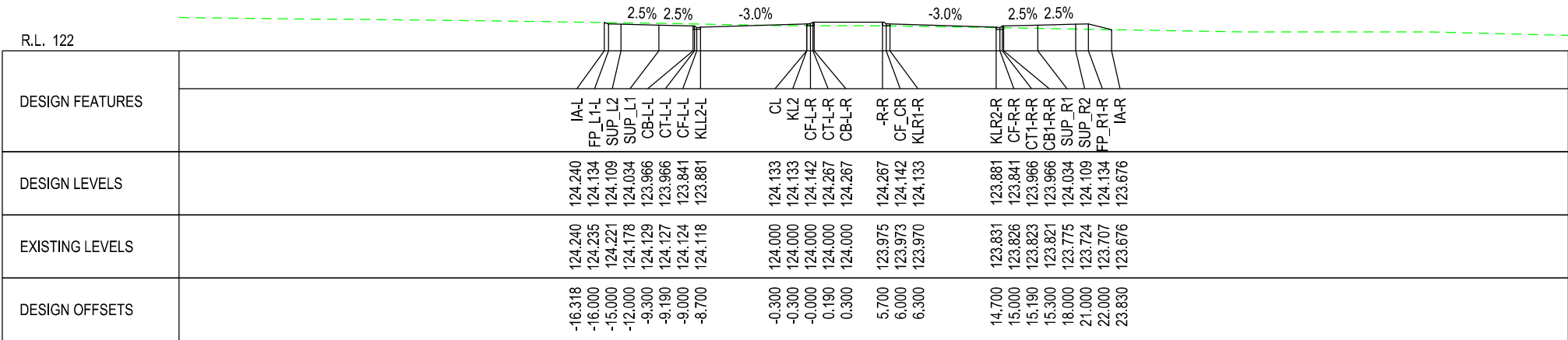
4500.000



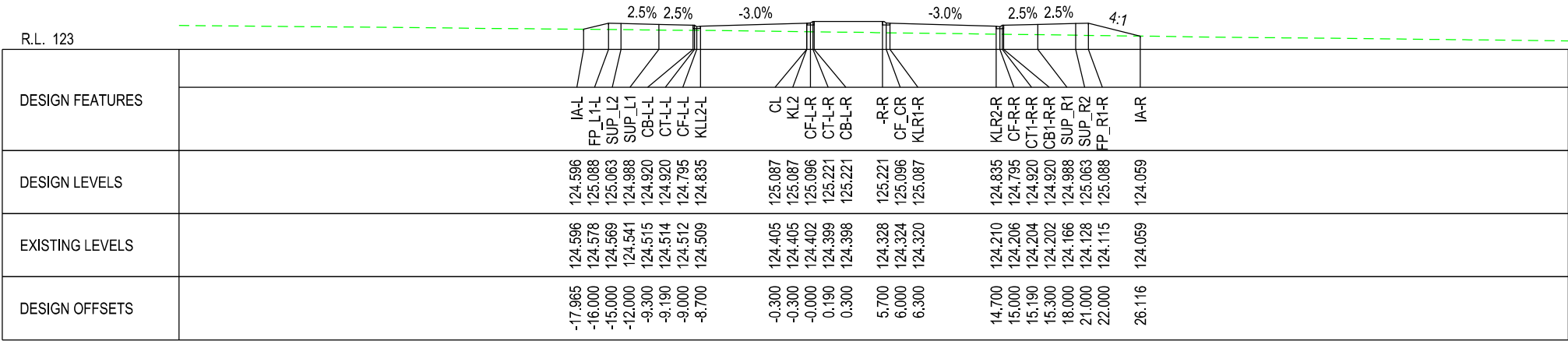
4400.000



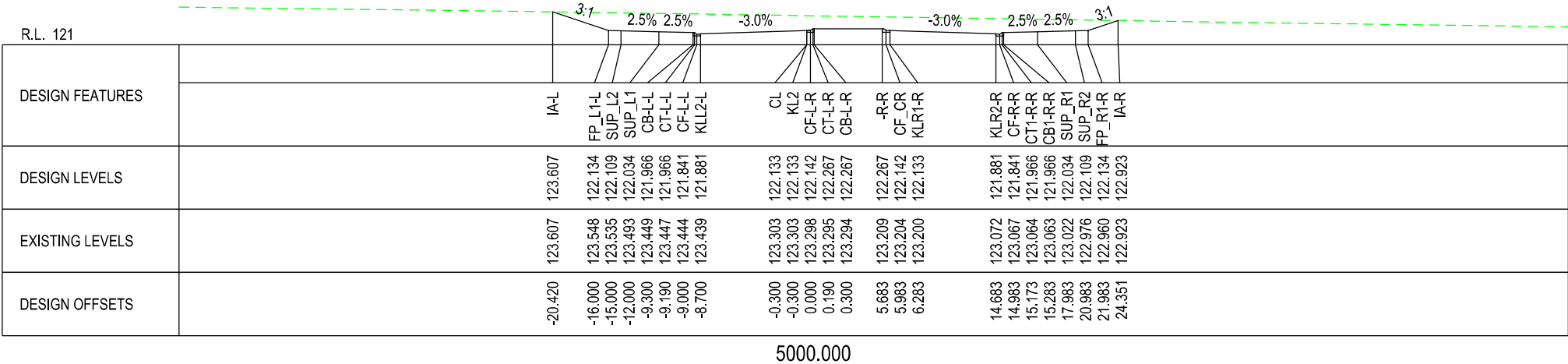
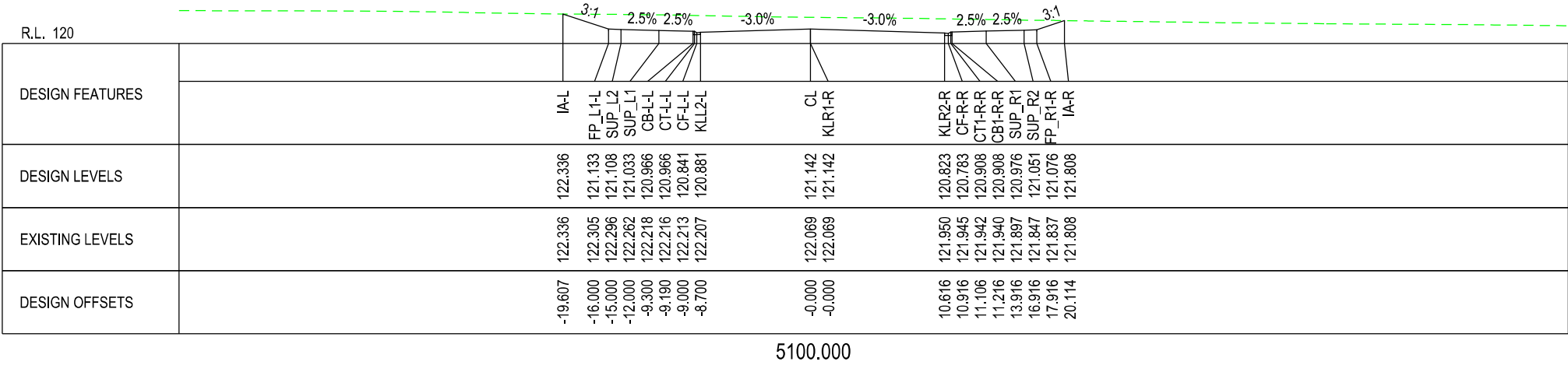
4900.000

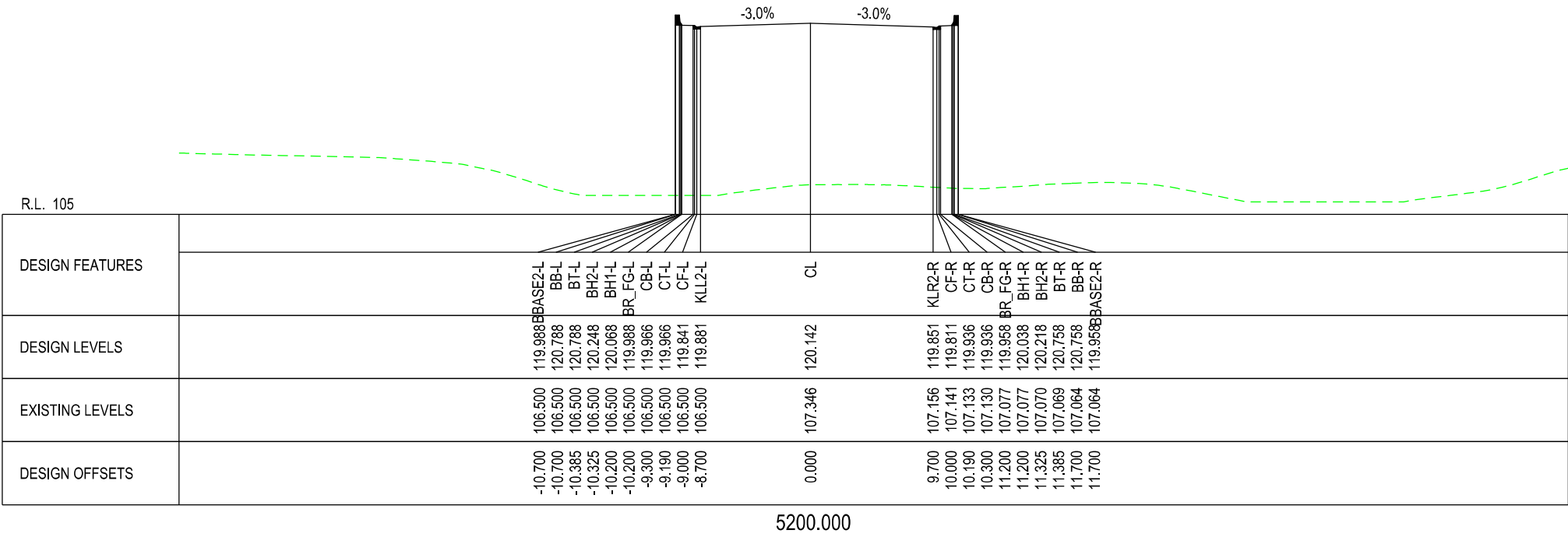
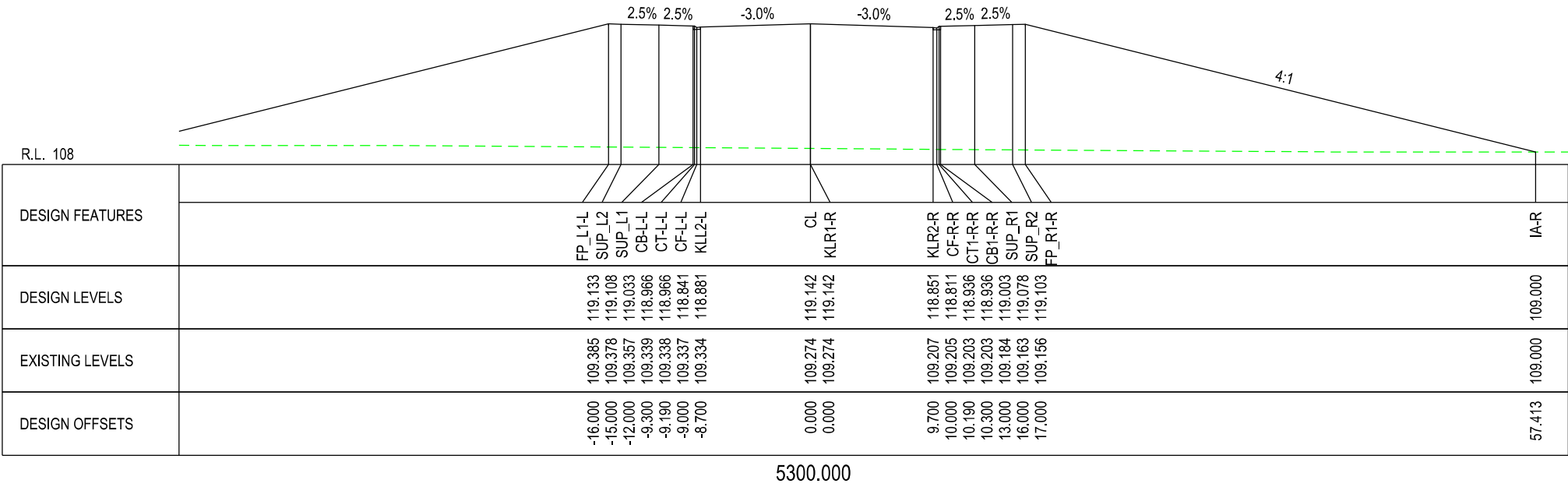


4800.000



4700.000





R.L. 121

DESIGN FEATURES	
DESIGN LEVELS	
EXISTING LEVELS	
DESIGN OFFSETS	

5600.000

R.L. 119

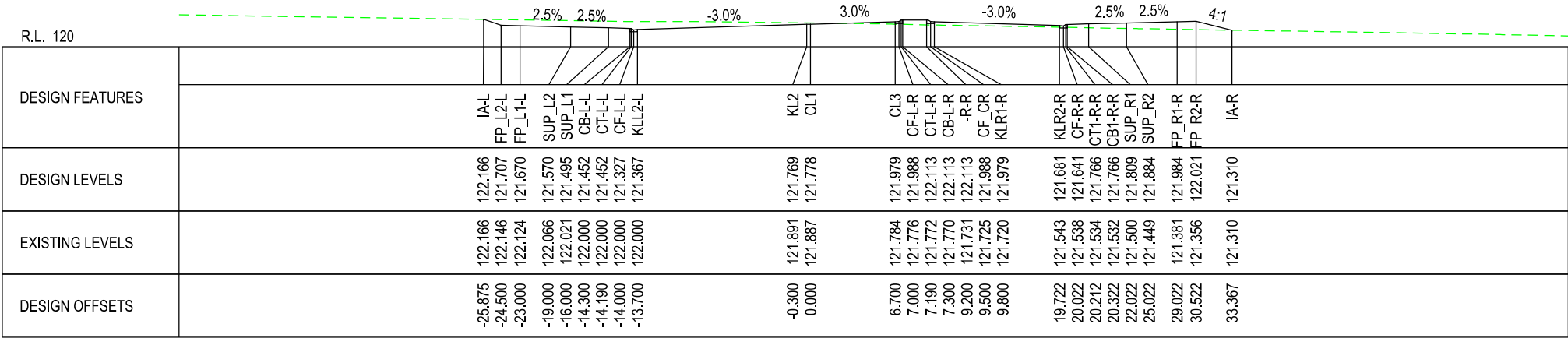
DESIGN FEATURES	IA-L	FP_L1-L	SUP_L2	SUP_L1	CB-L-L	CT-L-L	CF-L-L	KLL2-L	CL	KLR1-R	KLR2-R	CF-R-R	CT1-R-R	CB1-R-R	SUP_R1	SUP_R2	FP_R1-R	IA-R
DESIGN LEVELS	123.021	120.190	120.165	120.090	120.022	120.022	119.897	119.937	120.198	120.198	119.907	119.867	119.992	119.992	120.060	120.135	120.160	122.307
EXISTING LEVELS	123.021	122.883	122.871	122.832	122.804	122.802	122.799	122.795	122.699	122.699	122.557	122.552	122.549	122.547	122.502	122.446	122.426	122.307
DESIGN OFFSETS	-24.495	-16.000	-15.000	-12.000	-9.300	-9.190	-9.000	-8.700	0.000	0.000	9.700	10.000	10.190	10.300	13.000	16.000	17.000	23.443

5500.000

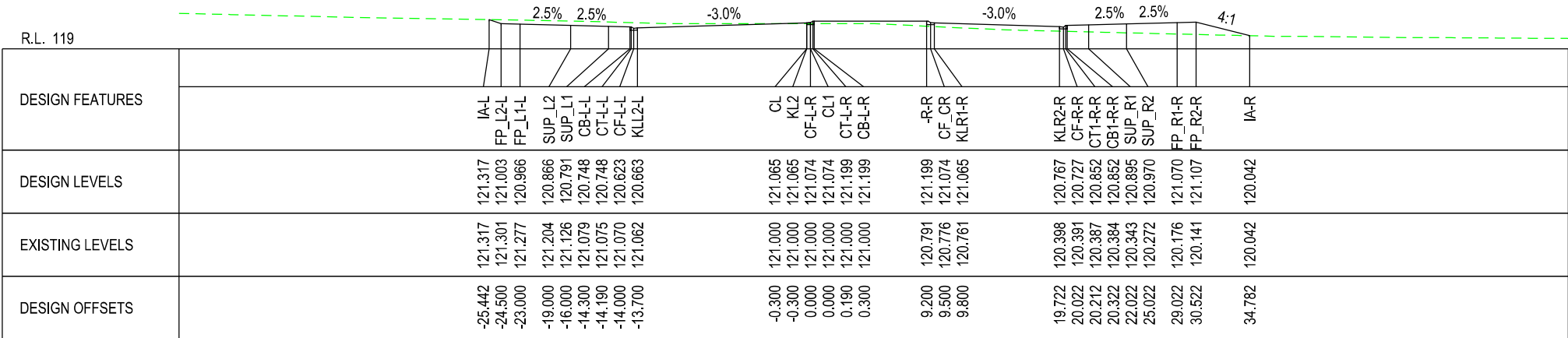
R.L. 114

DESIGN FEATURES	IA-L	FP_L1-L	SUP_L2	SUP_L1	CB-L-L	CT-L-L	CF-L-L	KLL2-L	CL	KLR1-R	KLR2-R	CF-R-R	CT1-R-R	CB1-R-R	SUP_R1	SUP_R2	FP_R1-R	IA-R
DESIGN LEVELS	115.272	118.141	118.116	118.041	117.973	117.973	117.848	117.888	118.149	118.149	117.858	117.818	117.943	117.943	118.011	118.086	118.111	116.031
EXISTING LEVELS	115.272	115.102	115.089	115.068	115.053	115.053	115.053	115.054	115.063	115.063	115.169	115.181	115.187	115.190	115.319	115.548	115.632	116.031
DESIGN OFFSETS	-27.474	-16.000	-15.000	-12.000	-9.300	-9.190	-9.000	-8.700	-0.000	-0.000	9.700	10.000	10.190	10.300	13.000	16.000	17.000	25.319

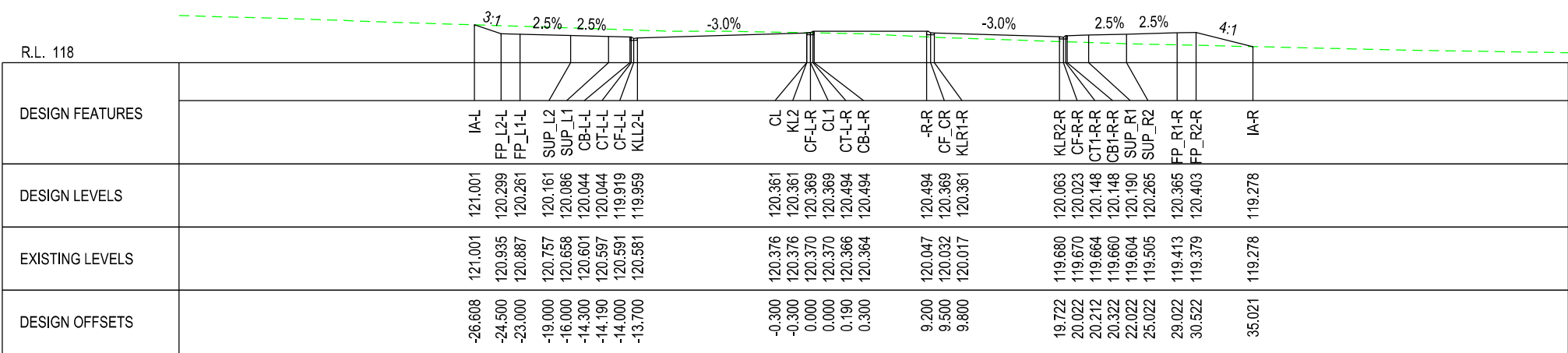
5400.000



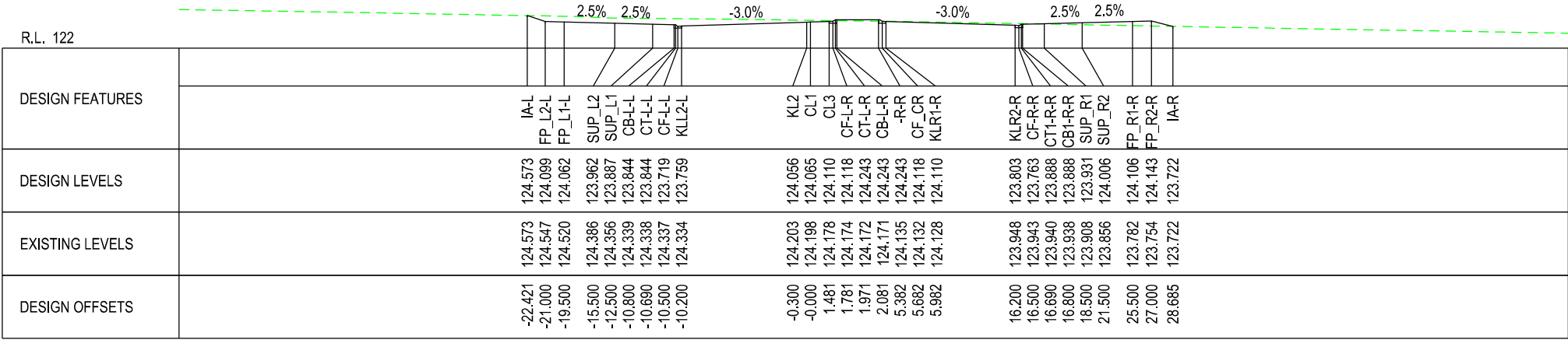
3200.000



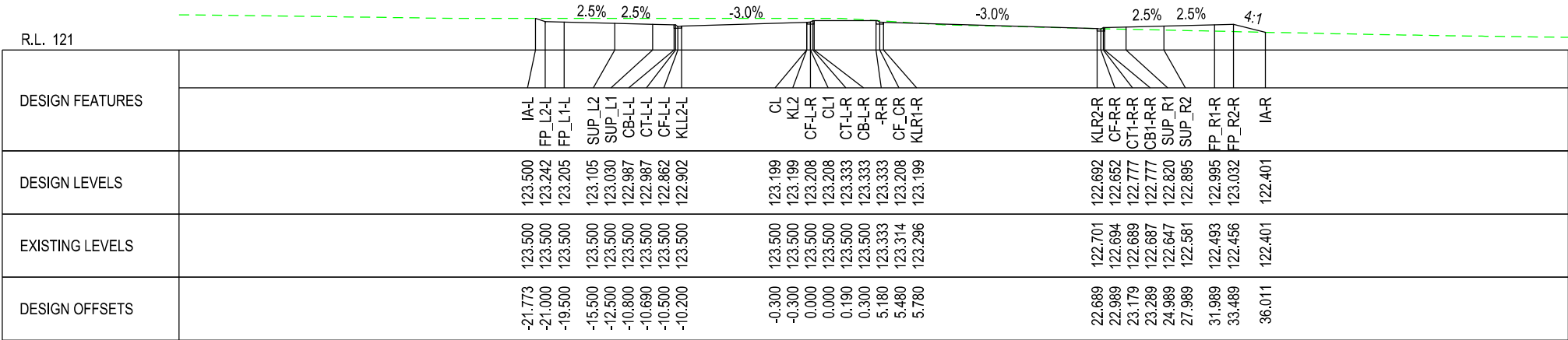
3100.000



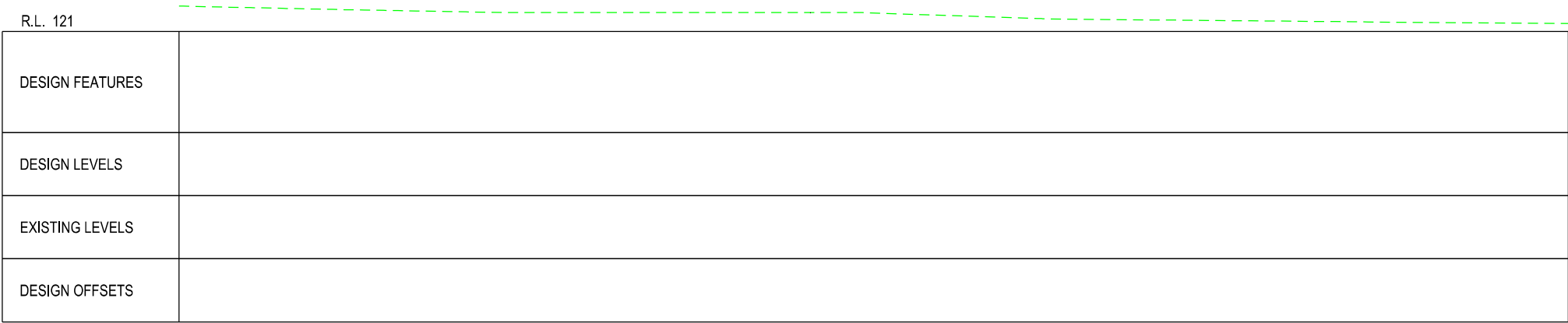
3000.000



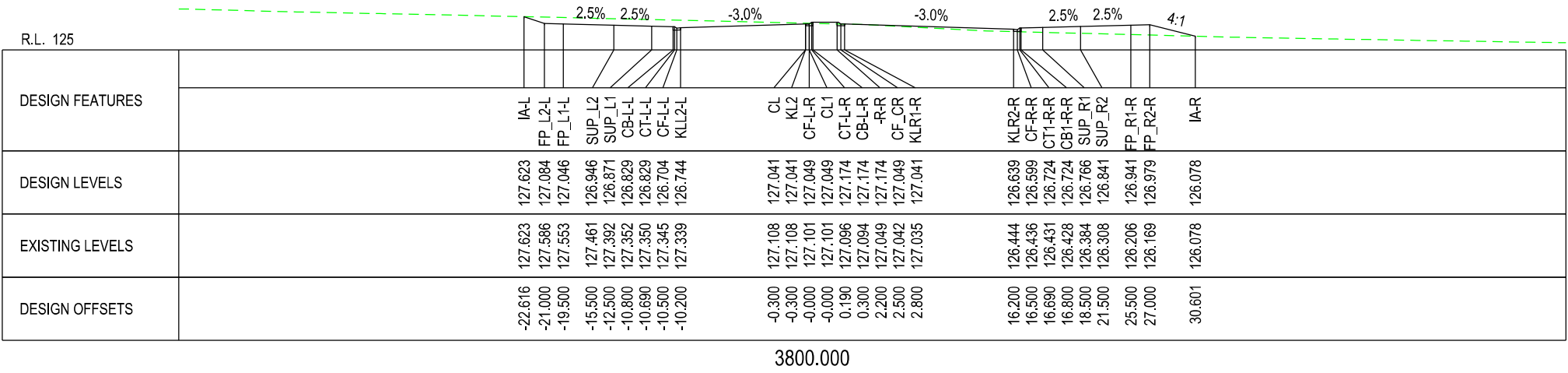
3500.000



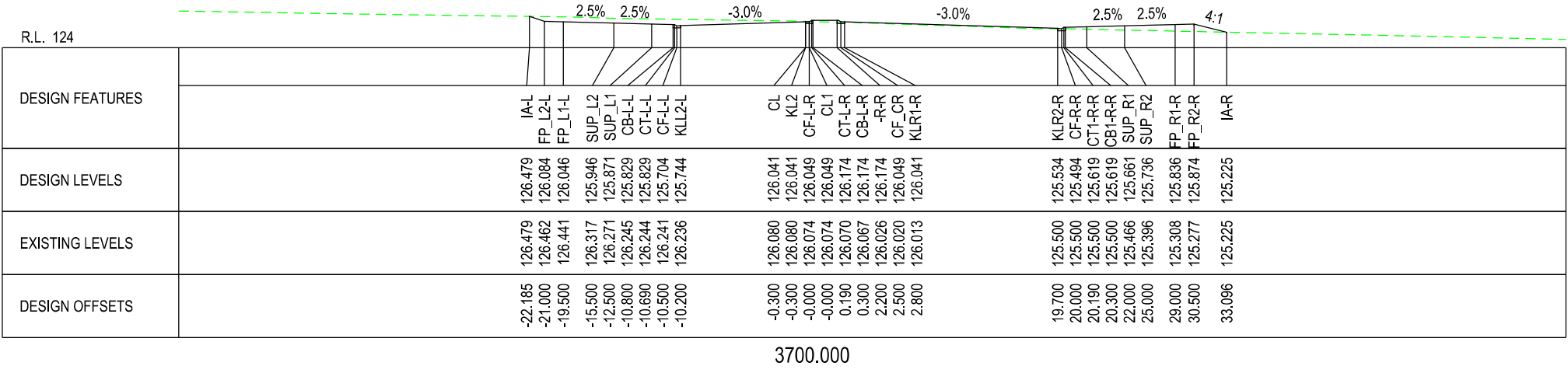
3400.000



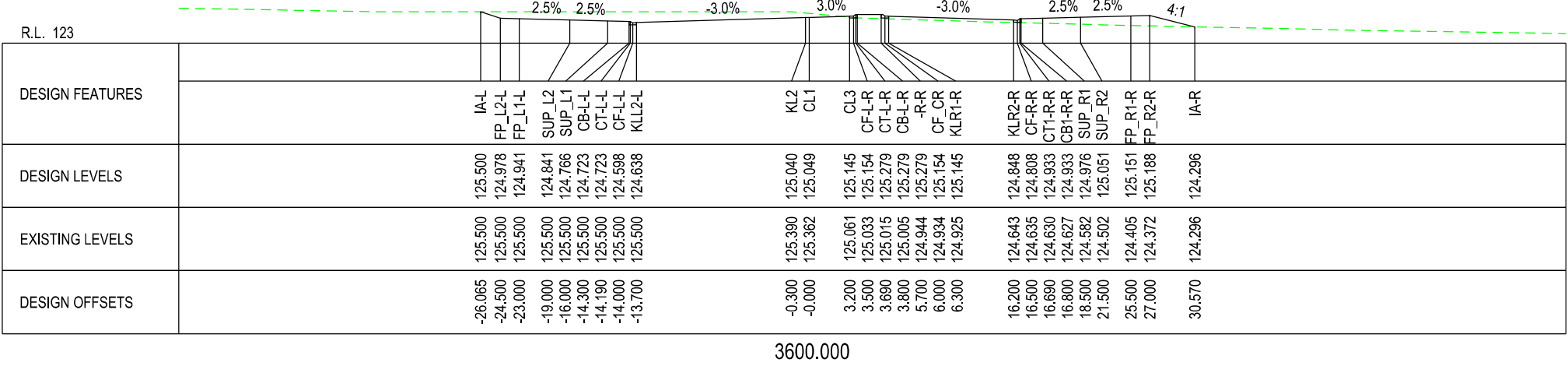
3300.000



3800.000



3700.000



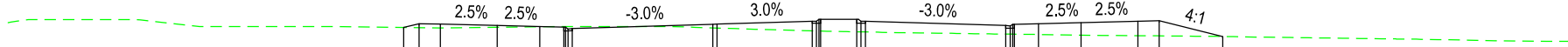
3600.000

R.L. 129

DESIGN FEATURES	
DESIGN LEVELS	
EXISTING LEVELS	
DESIGN OFFSETS	

4100.000

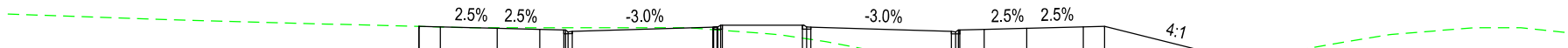
R.L. 127



DESIGN FEATURES	IA-L FP_L2-L FP_L1-L SUP_L2 SUP_L1 CB-L-L CT-L-L KLL2-L	KL2 CL1	CL3 CF-L-R CT-L-R CB-L-R -R-R CF_CR KLR1-R	KLR2-R CF-R-R CT1-R-R CB1-R-R SUP_R1 SUP_R2 FP_R1-R FP_R2-R	IA-R
DESIGN LEVELS	128.932 129.205 129.167 129.067 128.992 128.950 128.950 128.825 128.865	129.162 129.171	129.372 129.380 129.505 129.505 129.505 129.380 129.372	129.074 129.034 129.159 129.159 129.202 129.277 129.377 129.414	128.292
EXISTING LEVELS	128.932 128.917 128.896 128.945 128.985 129.000 129.000 129.000 129.000	128.900 128.891	128.694 128.688 128.684 128.680 128.626 128.618 128.611	128.463 128.459 128.457 128.456 128.434 128.394 128.350 128.337	128.292
DESIGN OFFSETS	-22.089 -21.000 -19.500 -15.500 -12.500 -10.800 -10.690 -10.500 -10.200	-0.300 -0.000	6.700 7.000 7.190 7.300 9.848 10.148 10.448	20.352 20.652 20.842 20.952 22.652 25.652 29.652 31.152	35.640

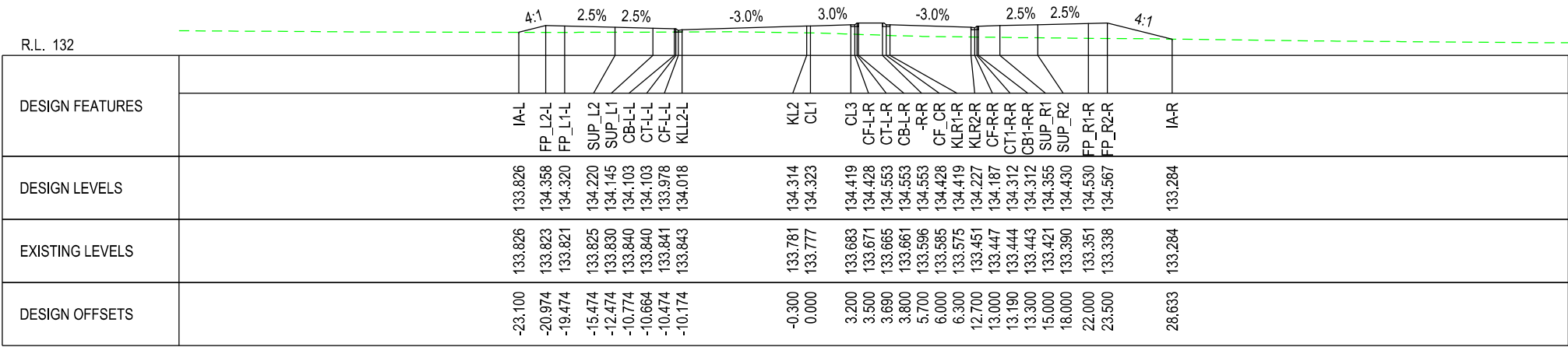
4000.000

R.L. 124

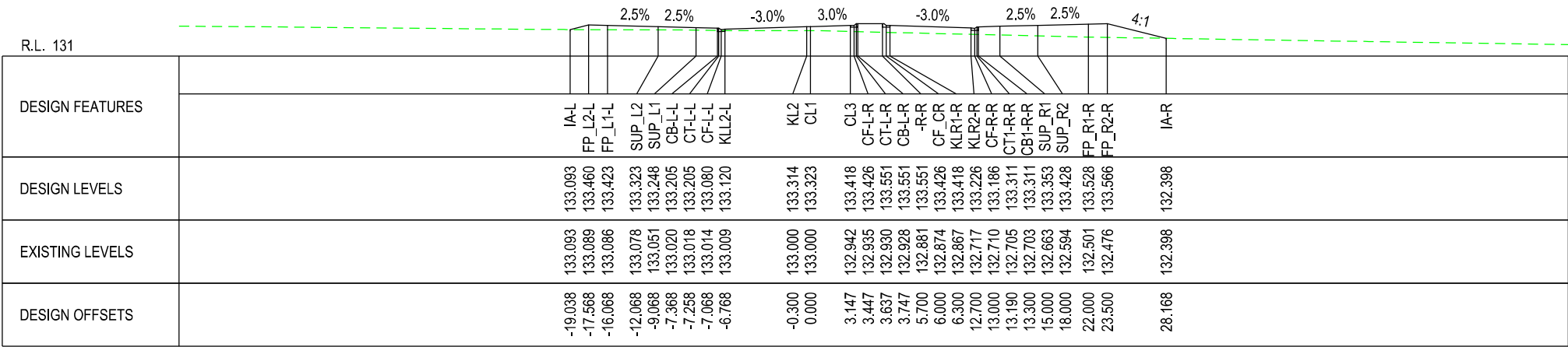


DESIGN FEATURES	IA-L FP_L2-L FP_L1-L SUP_L2 SUP_L1 CB-L-L CT-L-L KLL2-L	KL2 CL3 CL1 CF-L-R CT-L-R CB-L-R -R-R CF_CR KLR1-R	KLR2-R CF-R-R CT1-R-R CB1-R-R SUP_R1 SUP_R2 FP_R1-R FP_R2-R	IA-R
DESIGN LEVELS	128.090 128.083 128.046 127.946 127.871 127.828 127.828 127.703 127.743	128.040 128.042 128.049 128.051 128.176 128.176 128.176 128.051 128.042	127.745 127.705 127.830 127.830 127.873 127.948 128.048 128.085	125.718
EXISTING LEVELS	128.090 128.090 128.051 128.000 128.000 128.000 128.000 128.000 128.000	127.863 127.859 127.840 127.835 127.821 127.812 127.252 127.207 127.162	125.313 125.267 125.237 125.221 125.000 125.000 125.000 125.000	125.718
DESIGN OFFSETS	-21.020 -21.000 -19.500 -15.500 -12.500 -10.800 -10.690 -10.500 -10.200	-0.300 -0.237 -0.000 0.063 0.253 0.363 6.013 6.313 6.613	16.516 16.816 17.006 17.116 18.816 21.816 25.816 27.316	36.783

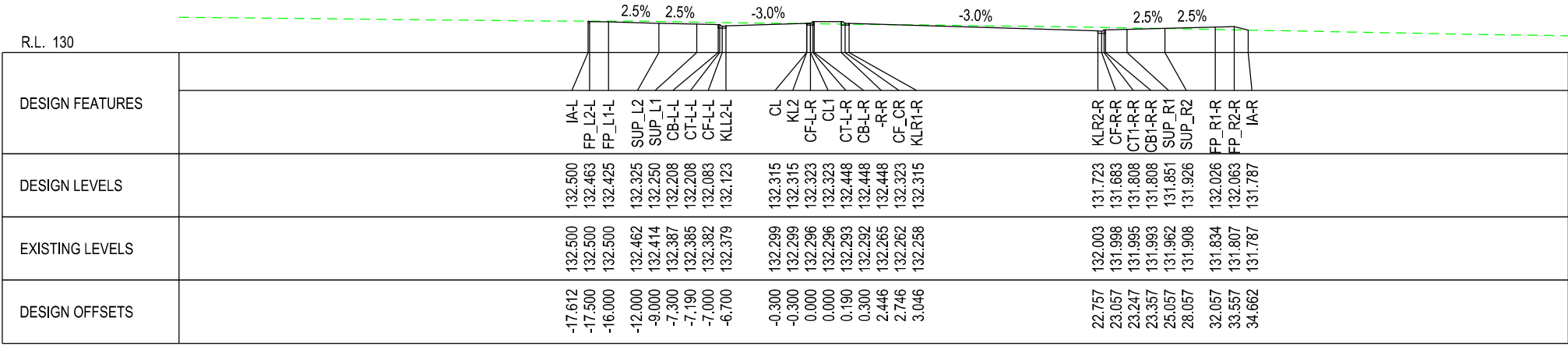
3900.000



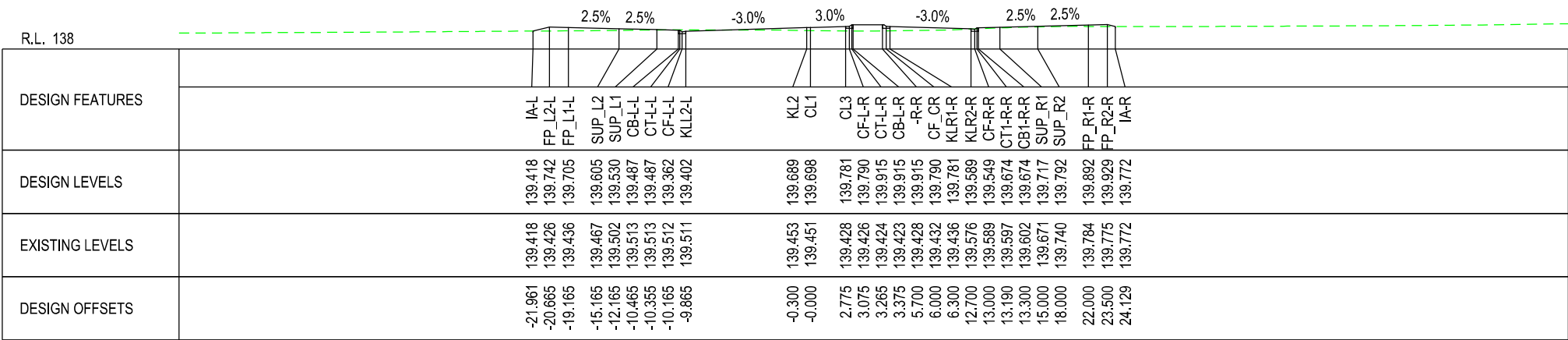
4400.000



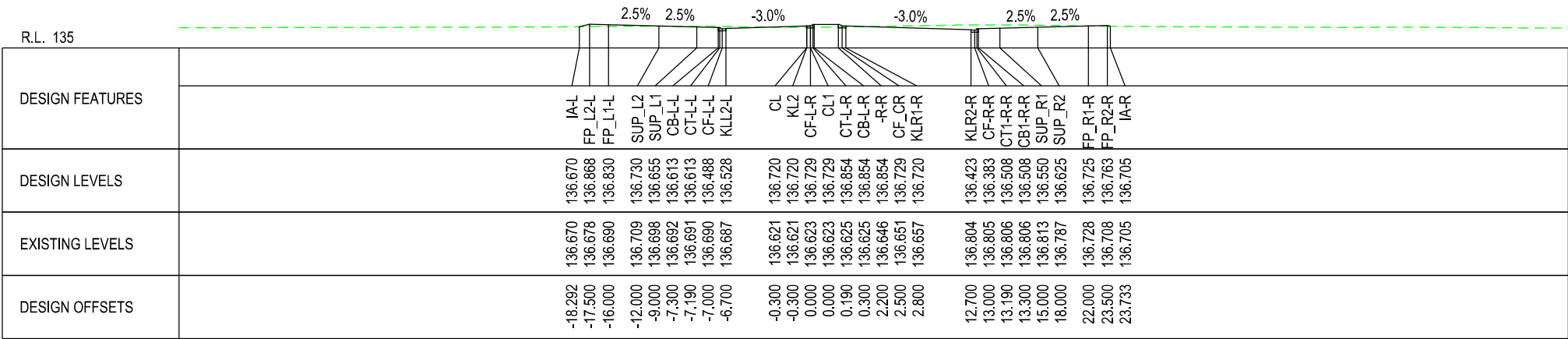
4300.000



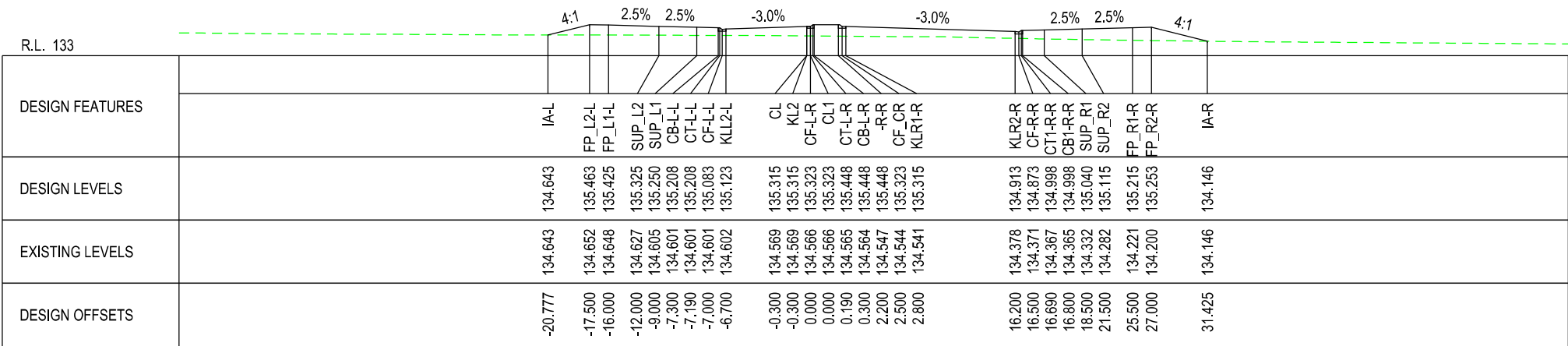
4200.000



4700.000



4600.000



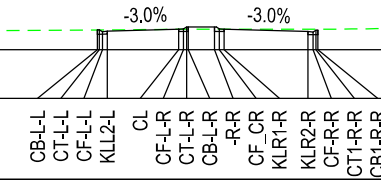
4500.000

R.L. 141

DESIGN FEATURES	
DESIGN LEVELS	
EXISTING LEVELS	
DESIGN OFFSETS	

4946.404

R.L. 141



DESIGN FEATURES	CBL-L CT-L-L CF-L-L KLL-L CL CF-L-R CT-L-R CBL-R CF-OR KLR-R KLR2-R CF-R-R CT1-R-R CBL1-R-R
DESIGN LEVELS	142.221 142.221 142.096 142.136 142.268 142.277 142.402 142.402 142.402 142.277 142.268 142.113 142.073 142.198 142.198
EXISTING LEVELS	142.217 142.218 142.219 142.220 142.251 142.252 142.252 142.252 142.255 142.256 142.256 142.265 142.265 142.266 142.266
DESIGN OFFSETS	-5.305 -5.195 -5.005 -4.705 -0.305 -0.005 0.185 0.295 1.911 2.211 2.511 7.681 7.981 8.171 8.281

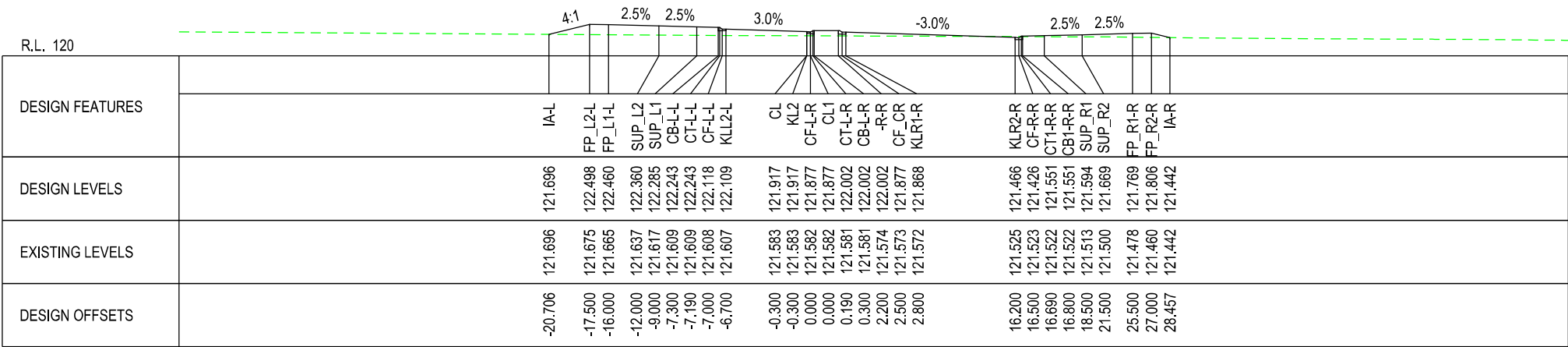
4900.000

R.L. 140

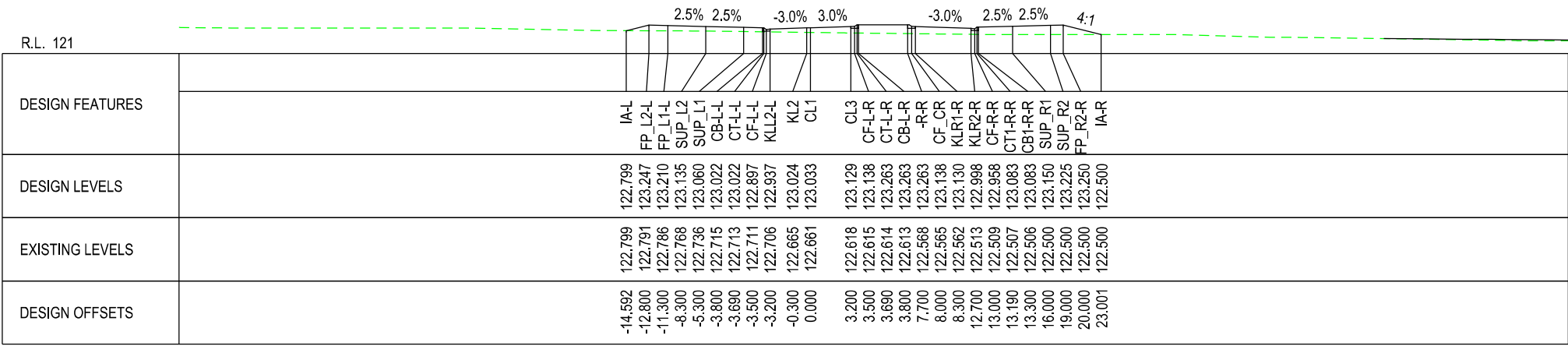


DESIGN FEATURES	KL2 CL1
DESIGN LEVELS	141.591 141.610
EXISTING LEVELS	141.367 141.364
DESIGN OFFSETS	-38.903 -36.964

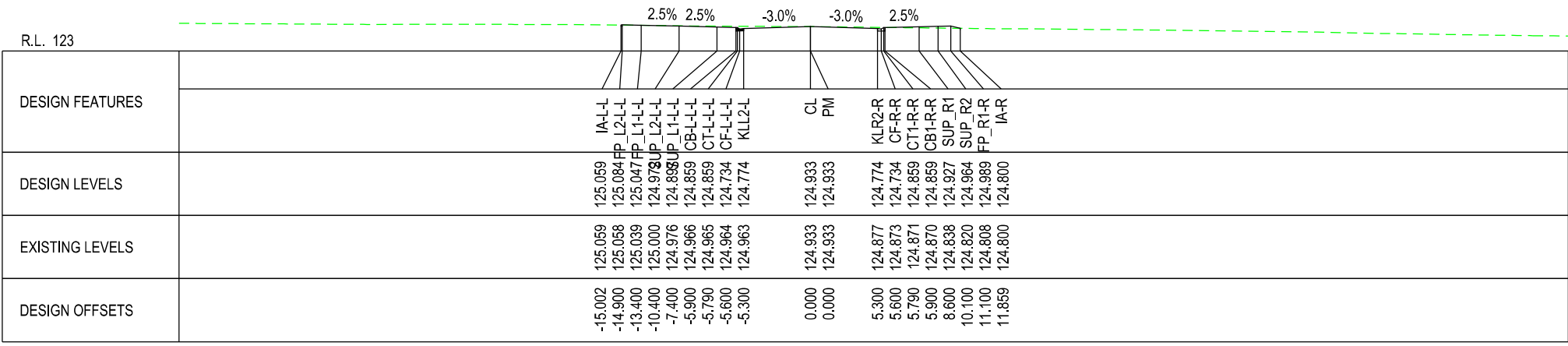
4800.000



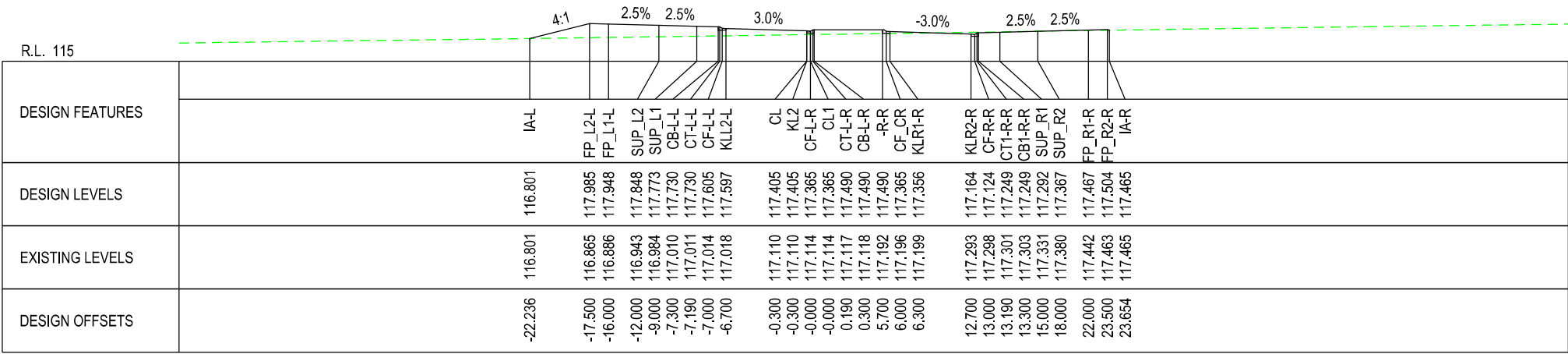
4200.000



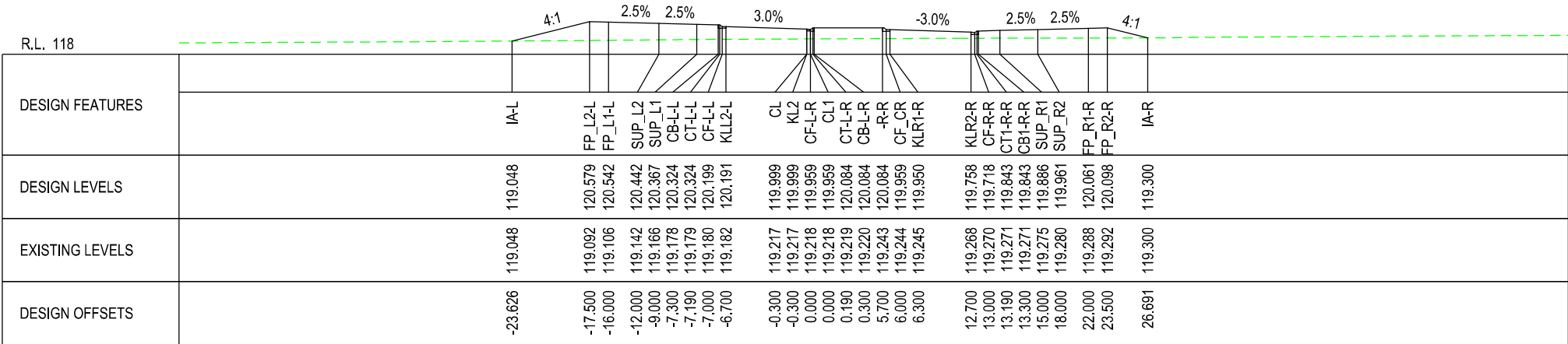
4100.000



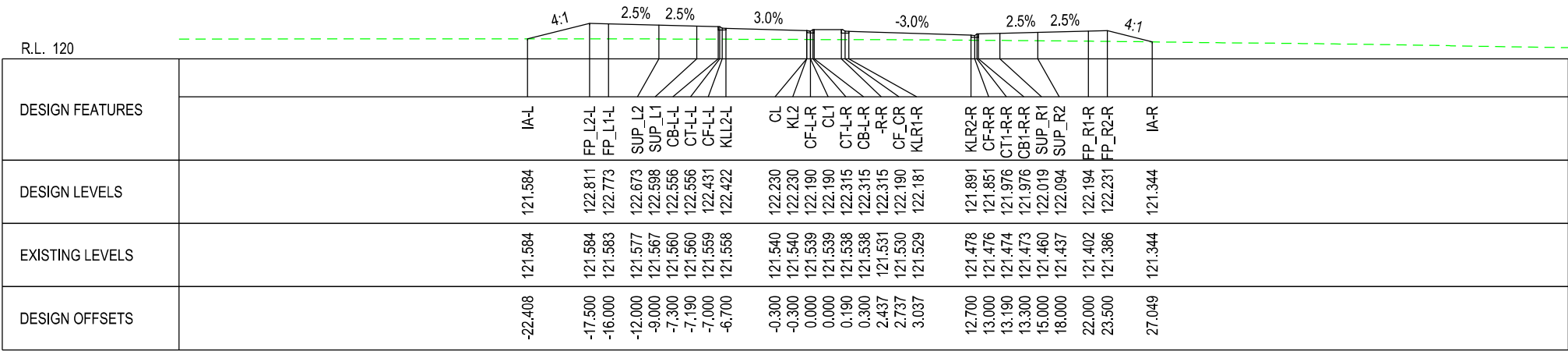
4000.000



4500.000



4400.000



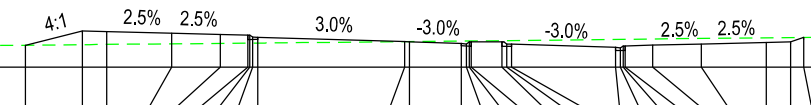
4300.000

R.L. 113

DESIGN FEATURES	
DESIGN LEVELS	
EXISTING LEVELS	
DESIGN OFFSETS	

4800.000

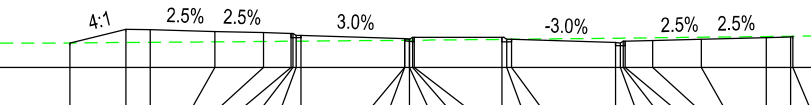
R.L. 113



DESIGN FEATURES	IA-L	FP_L2-L	FP_L1-L	SUP_L2	SUP_L1	CB-L-L	CT-L-L	CF-L-L	KLL2-L	KL2	CL1	CL3	CF-L-R	CT-L-R	CB-L-R	-R-R	CF_CR	KLR1-R	KLR2-R	CT1-R-R	CB1-R-R	SUP_R1	SUP_R2	FP_R1-R	FP_R2-R	IA-R	
DESIGN LEVELS	114.351	115.232	115.194	115.094	115.019	114.977	114.977	114.852	114.843	114.571	114.562	114.466	114.426	114.551	114.551	114.551	114.426	114.417	114.225	114.185	114.310	114.310	114.353	114.428	114.528	114.565	114.835
EXISTING LEVELS	114.351	114.386	114.400	114.438	114.466	114.481	114.482	114.483	114.486	114.574	114.577	114.610	114.613	114.615	114.616	114.636	114.639	114.642	114.708	114.711	114.713	114.714	114.733	114.766	114.810	114.826	114.835
DESIGN OFFSETS	-23.689	-20.168	-18.668	-14.668	-11.668	-9.968	-9.858	-9.668	-9.368	-0.300	-0.000	3.200	3.500	3.690	3.800	5.700	6.000	6.300	12.700	13.000	13.190	13.300	15.000	18.000	22.000	23.500	24.309

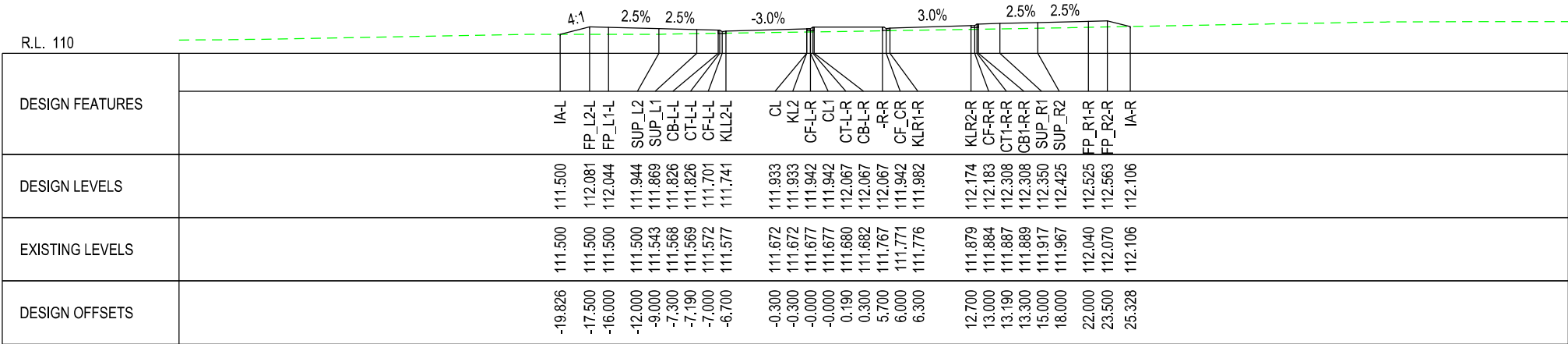
4700.000

R.L. 114

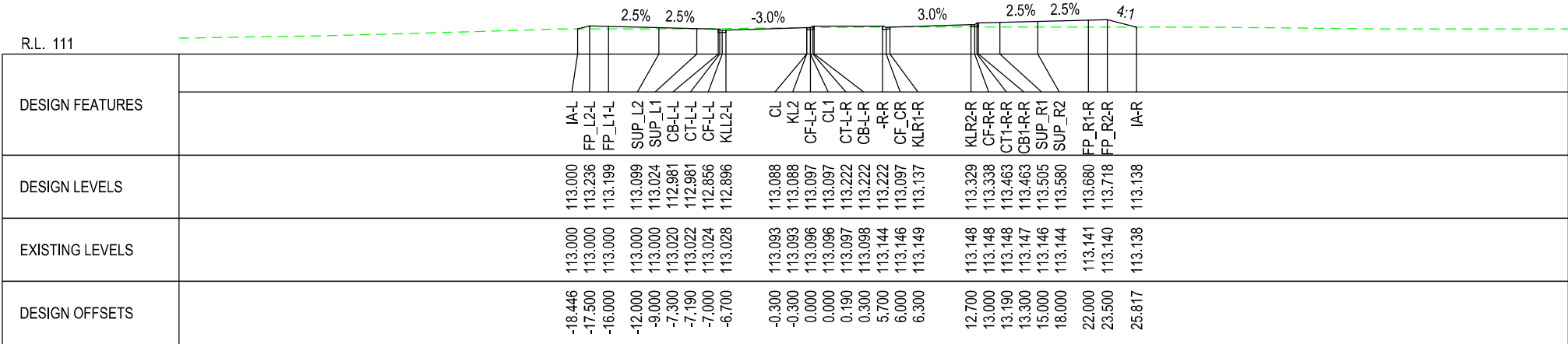


DESIGN FEATURES	IA-L	FP_L2-L	FP_L1-L	SUP_L2	SUP_L1	CB-L-L	CT-L-L	CF-L-L	KLL2-L	CL	KL2	CF-L-R	CT-L-R	CB-L-R	-R-R	CF_CR	KLR1-R	KLR2-R	CF-R-R	CT1-R-R	CB1-R-R	SUP_R1	SUP_R2	FP_R1-R	FP_R2-R	IA-R	
DESIGN LEVELS	115.505	116.364	116.326	116.226	116.151	116.109	116.109	115.984	115.975	115.783	115.783	115.743	115.743	115.868	115.868	115.743	115.734	115.542	115.502	115.627	115.627	115.670	115.745	115.845	115.882	115.931	
EXISTING LEVELS	115.505	115.542	115.550	115.579	115.606	115.621	115.622	115.624	115.627	115.682	115.682	115.685	115.685	115.687	115.688	115.735	115.737	115.809	115.812	115.814	115.815	115.832	115.865	115.910	115.929	115.931	
DESIGN OFFSETS	-20.936	-17.500	-16.000	-12.000	-9.000	-7.300	-7.190	-7.000	-6.700	-0.300	-0.300	0.000	0.000	0.190	0.300	5.700	6.000	6.300	12.700	13.000	13.190	13.300	15.000	18.000	22.000	23.500	23.645

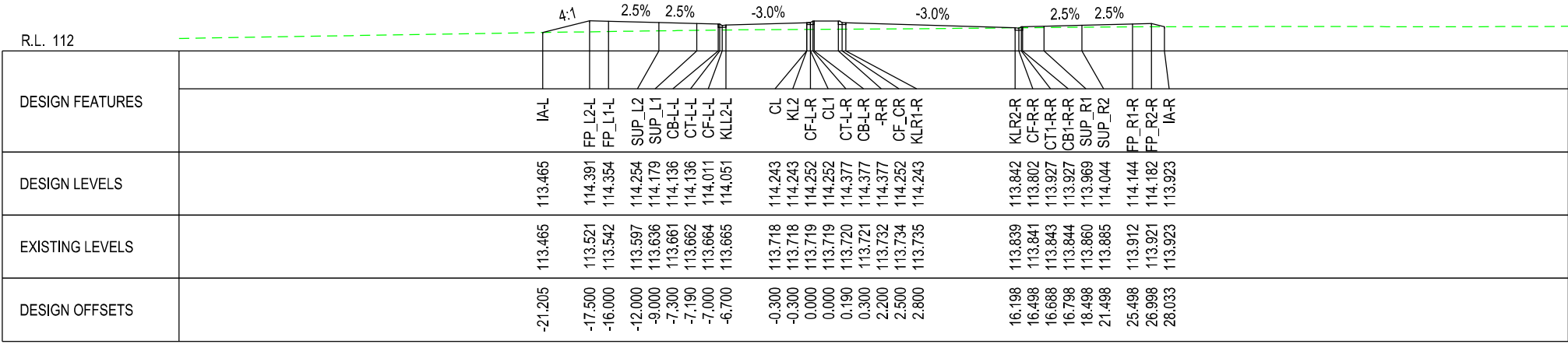
4600.000



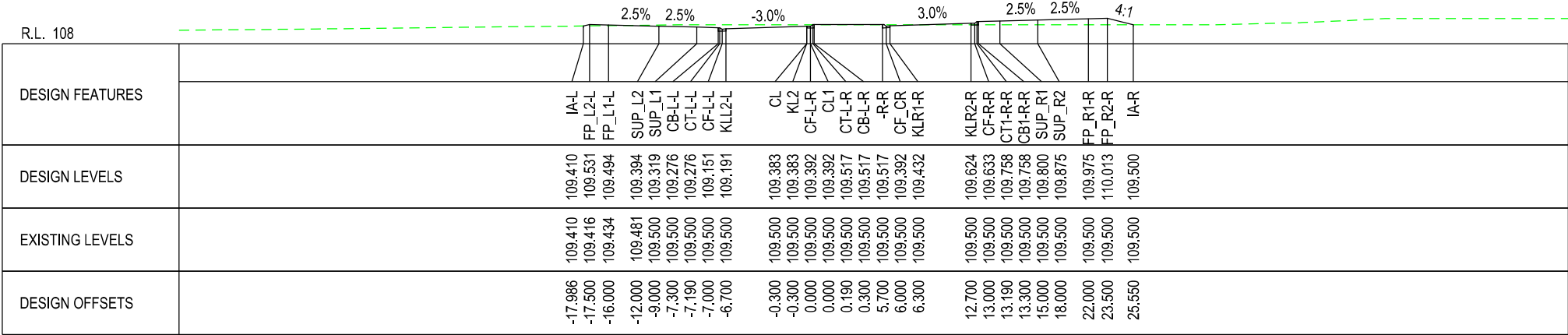
5100.000



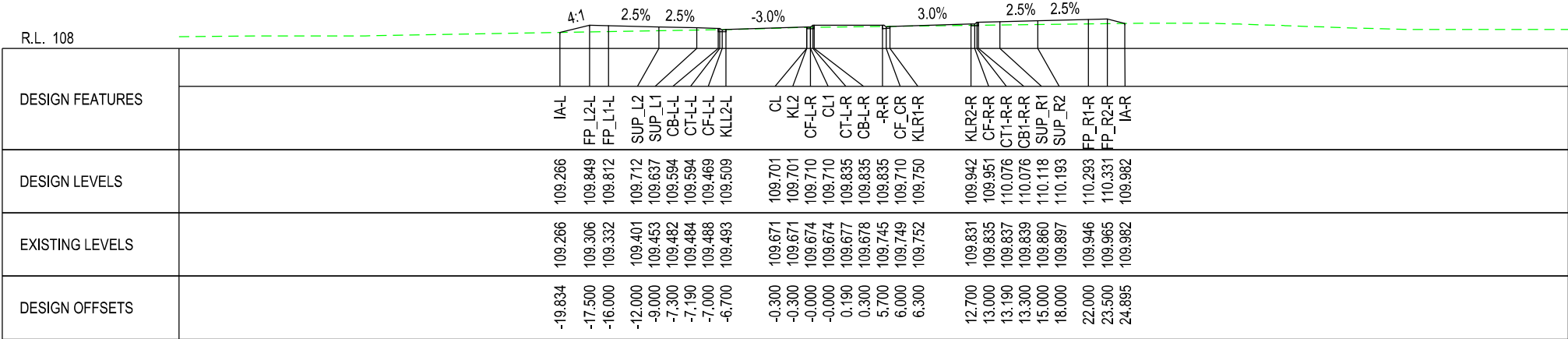
5000.000



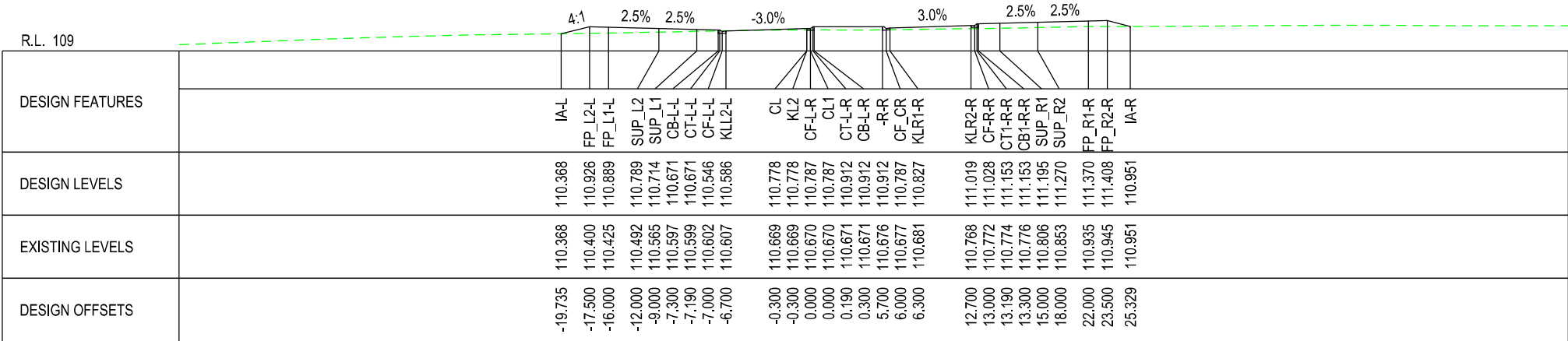
4900.000



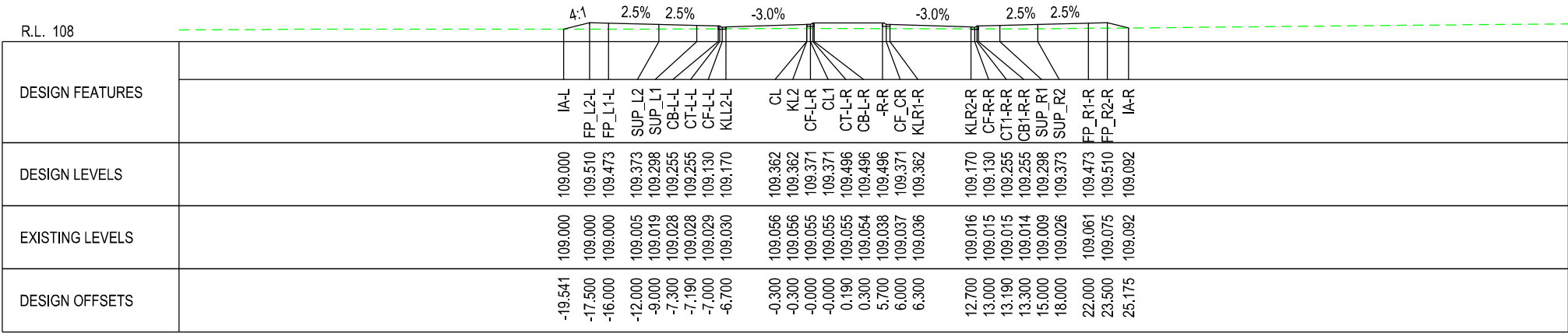
5400.000



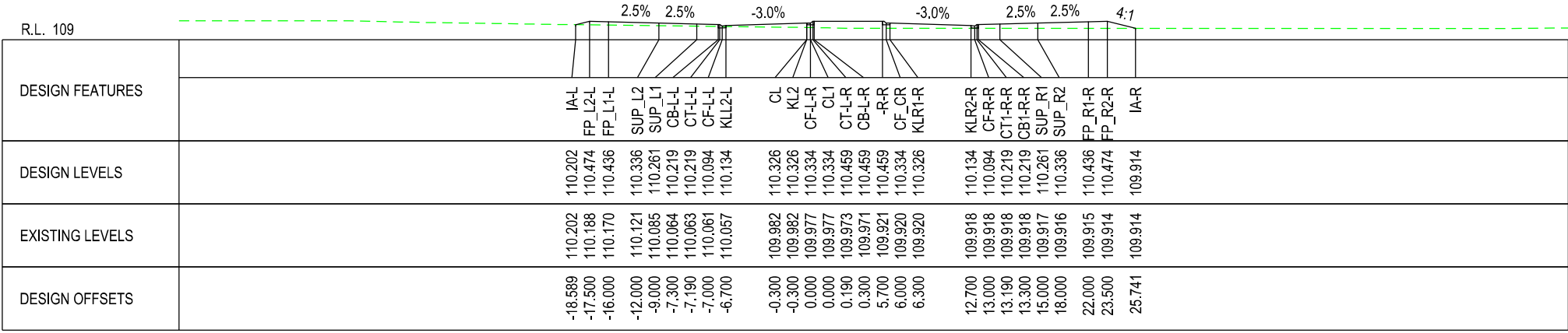
5300.000



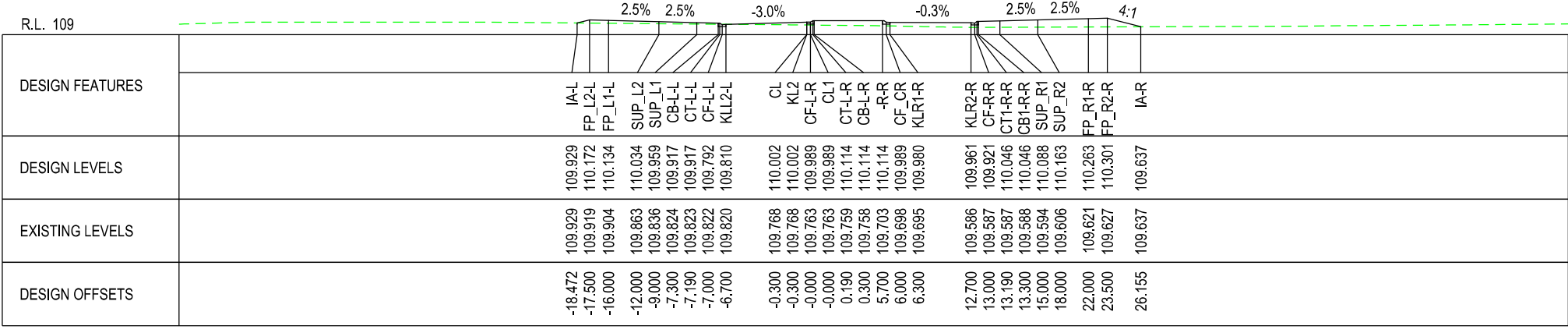
5200.000



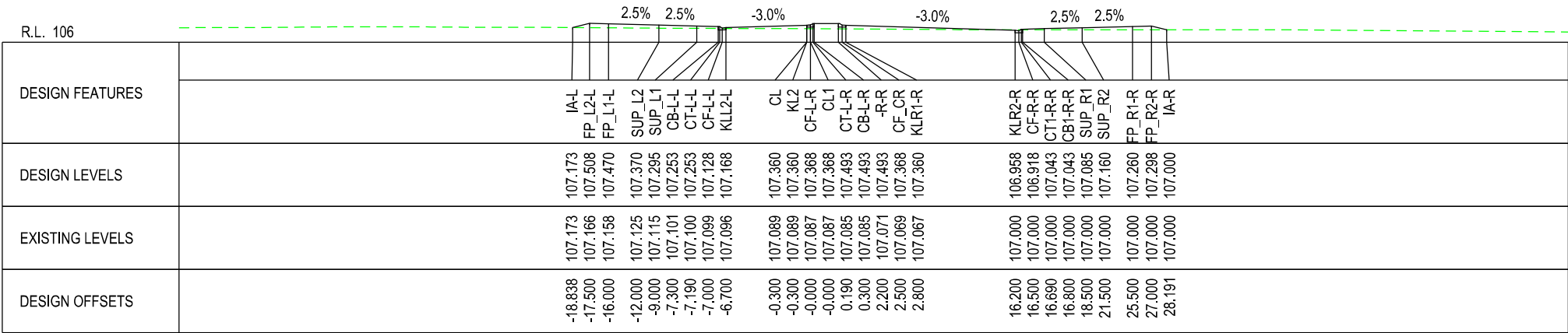
5700.000



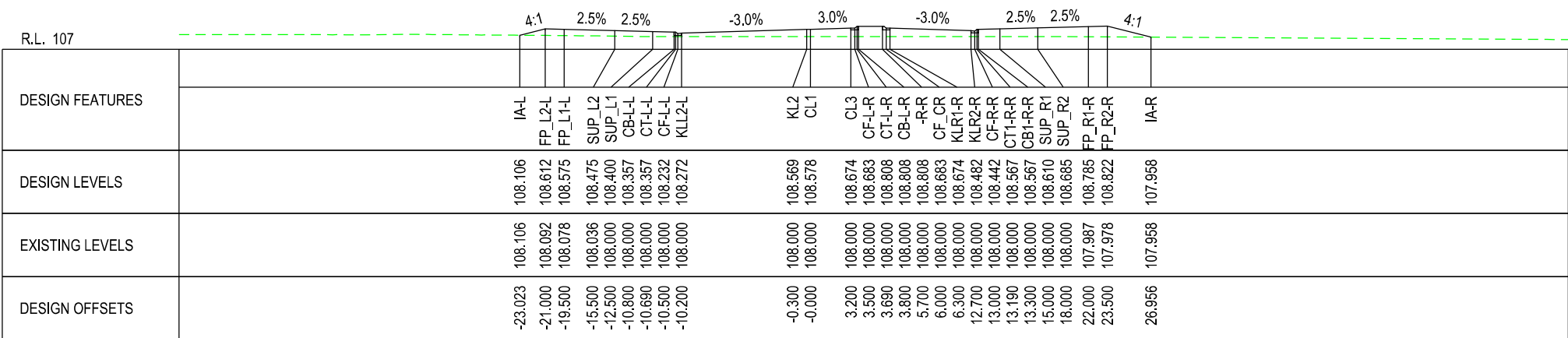
5600.000



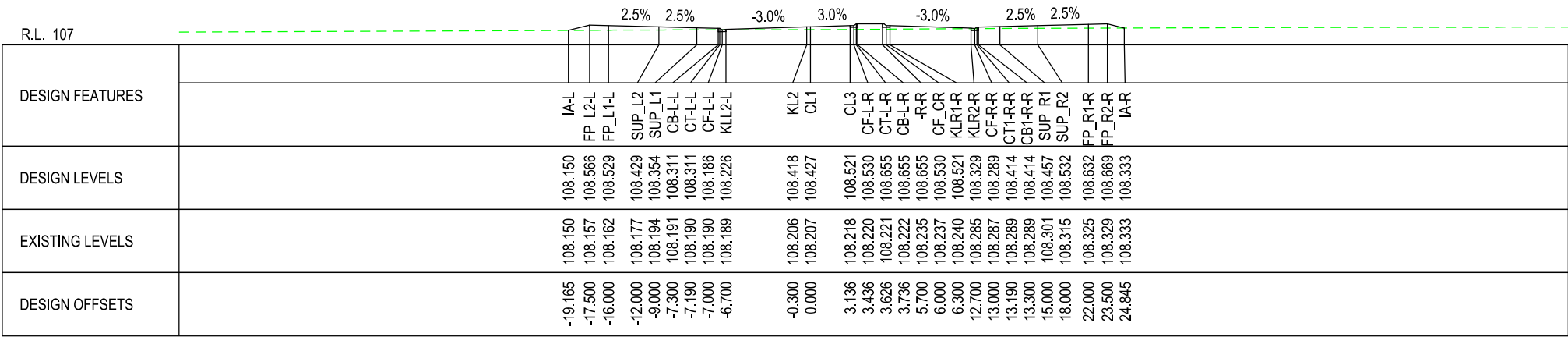
5500.000



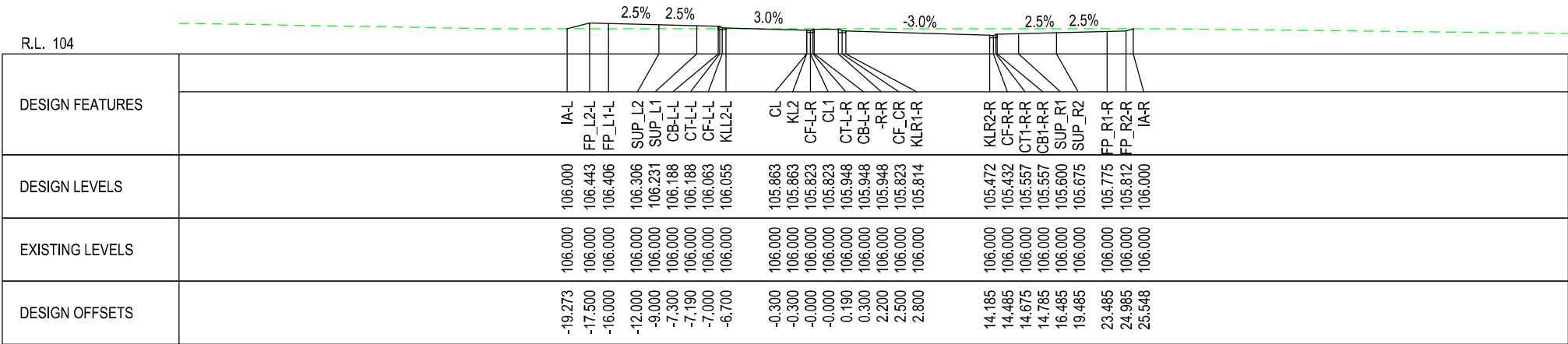
6000.000



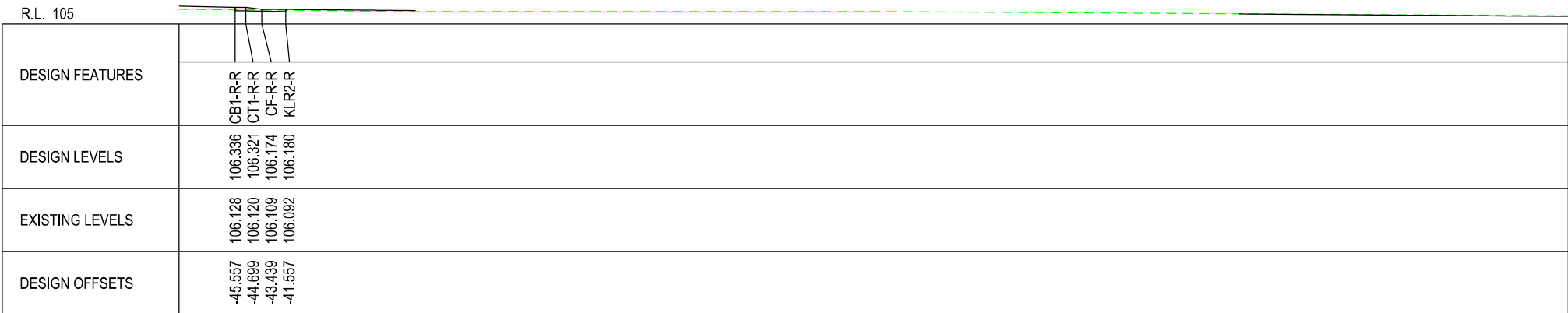
5900.000



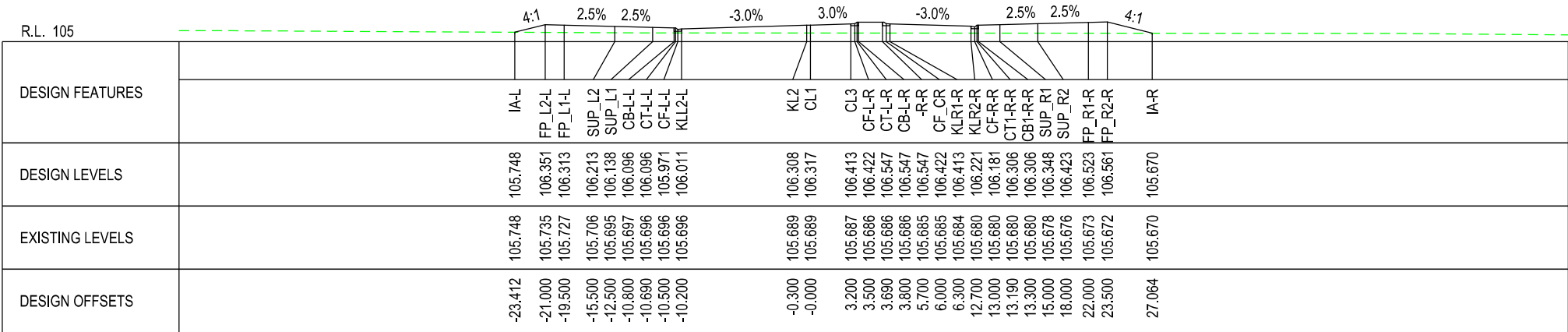
5800.000



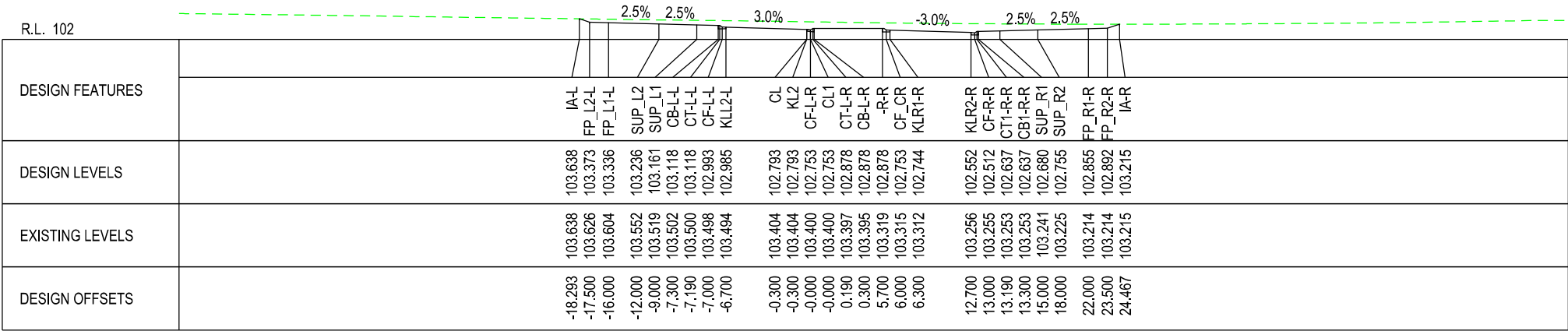
6600.000



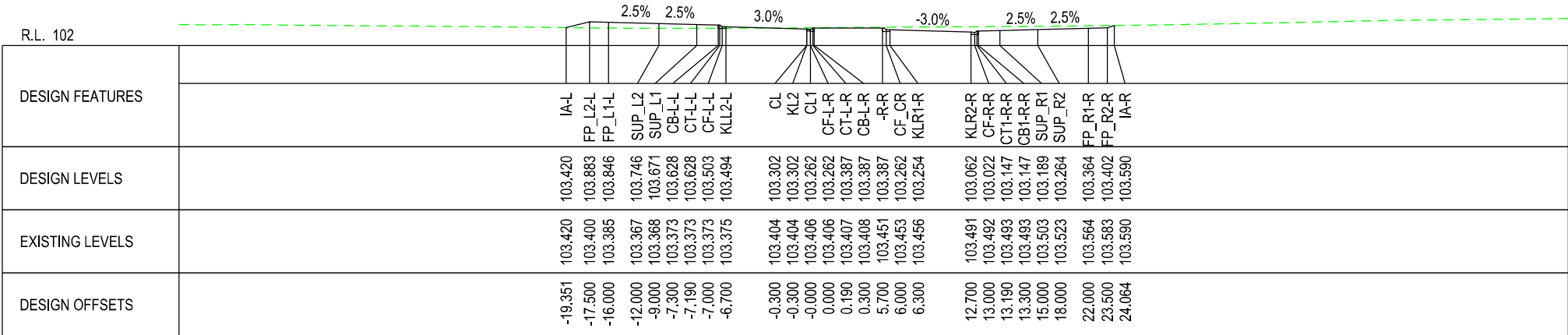
6500.000



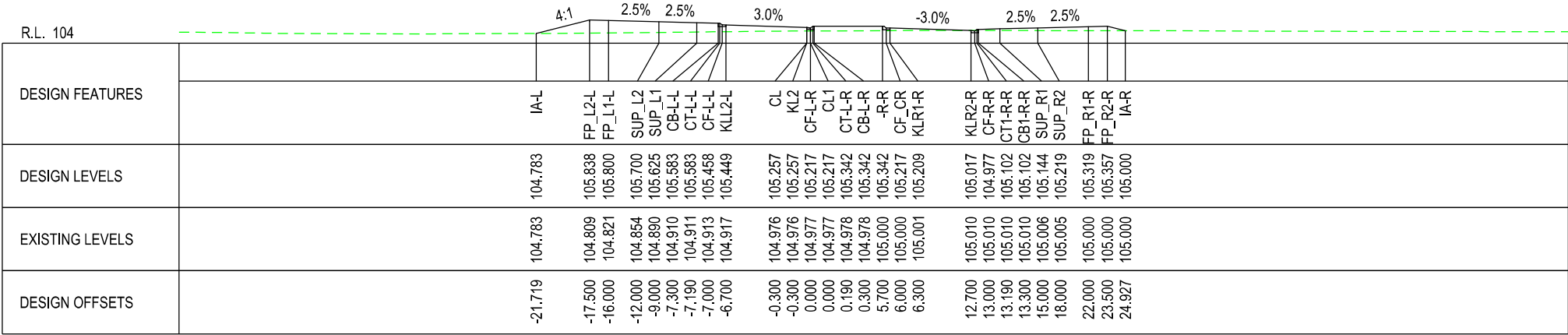
6400.000



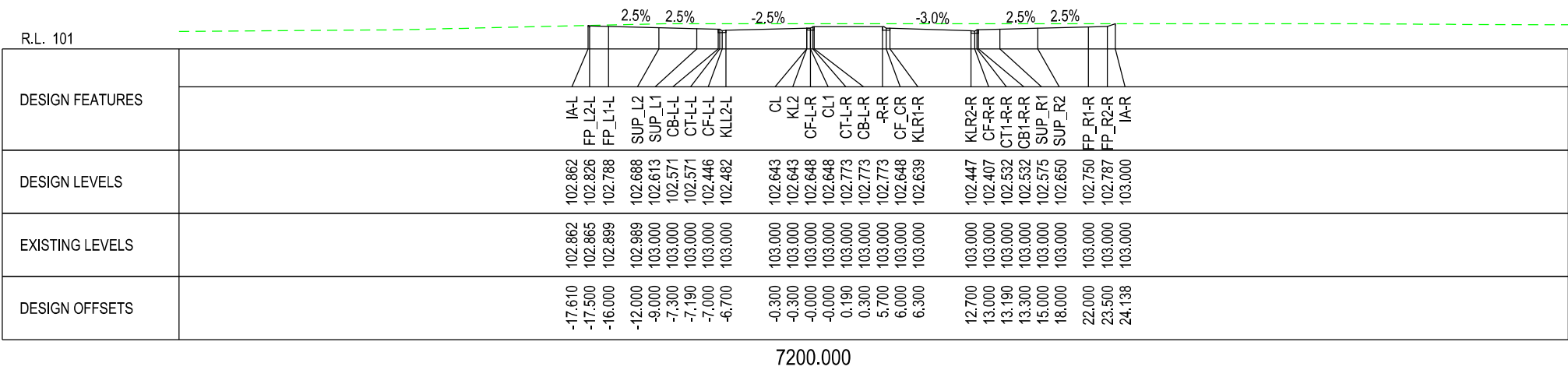
6900.000



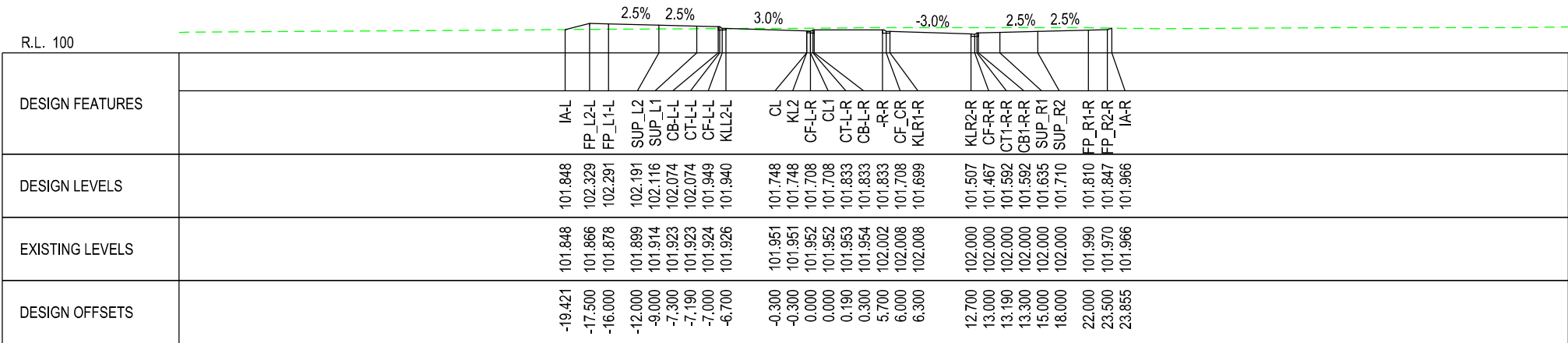
6800.000



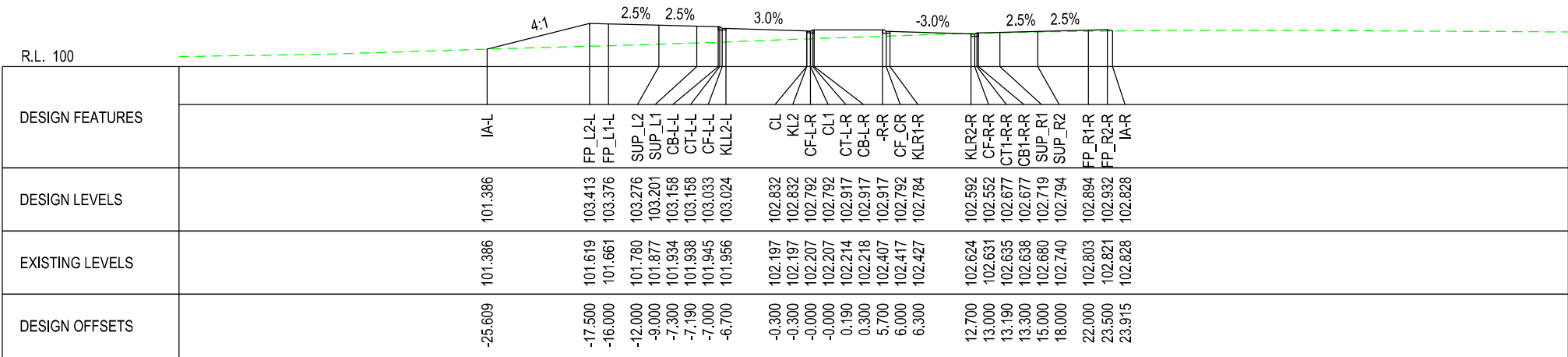
6700.000



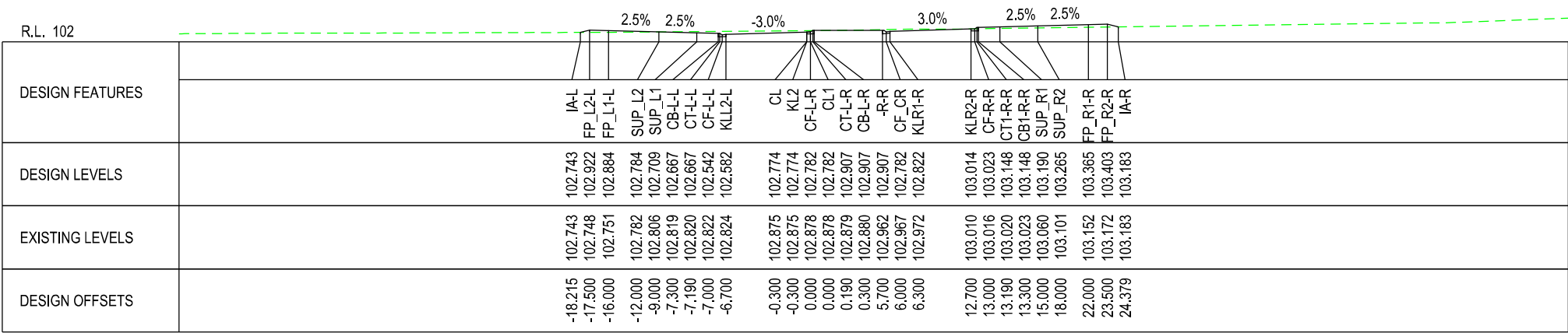
7200.000



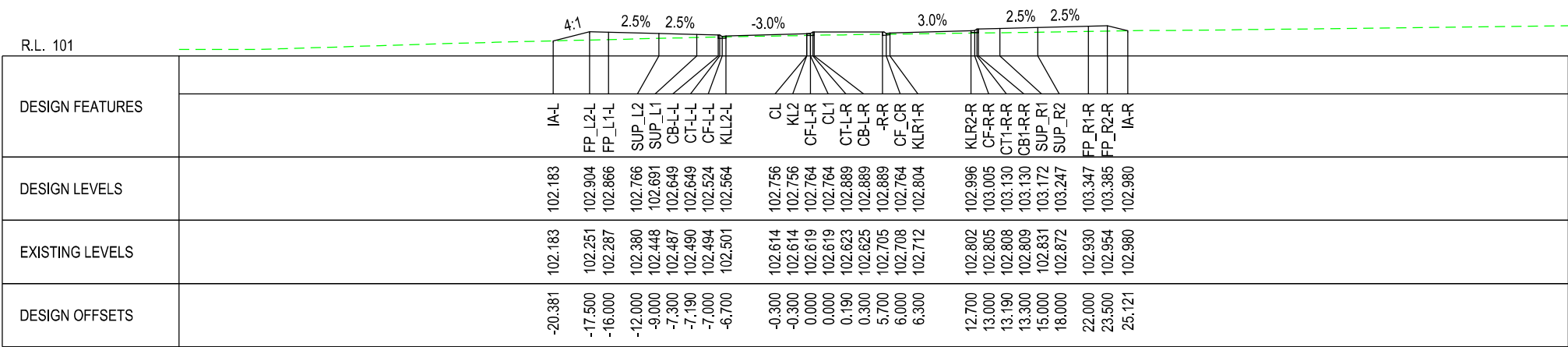
7100.000



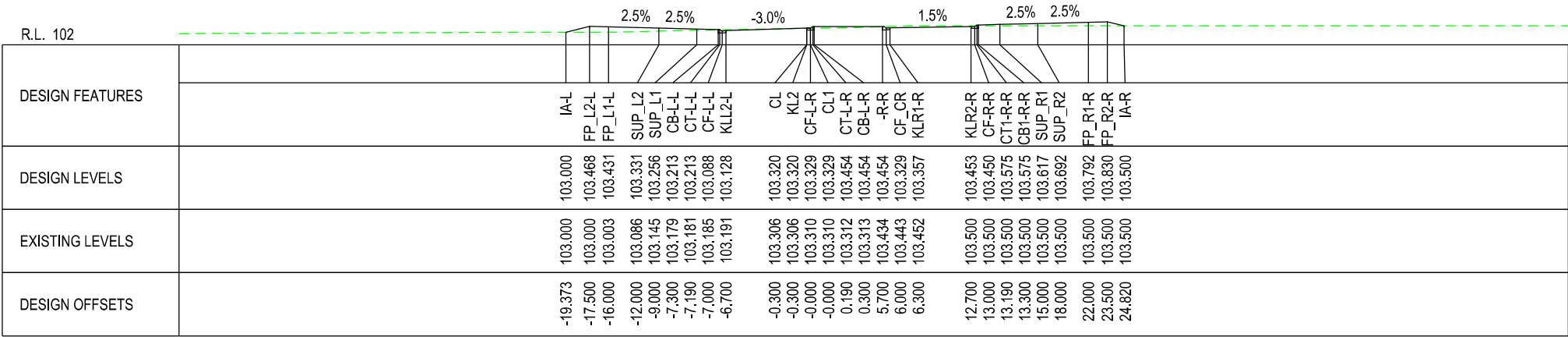
7000.000



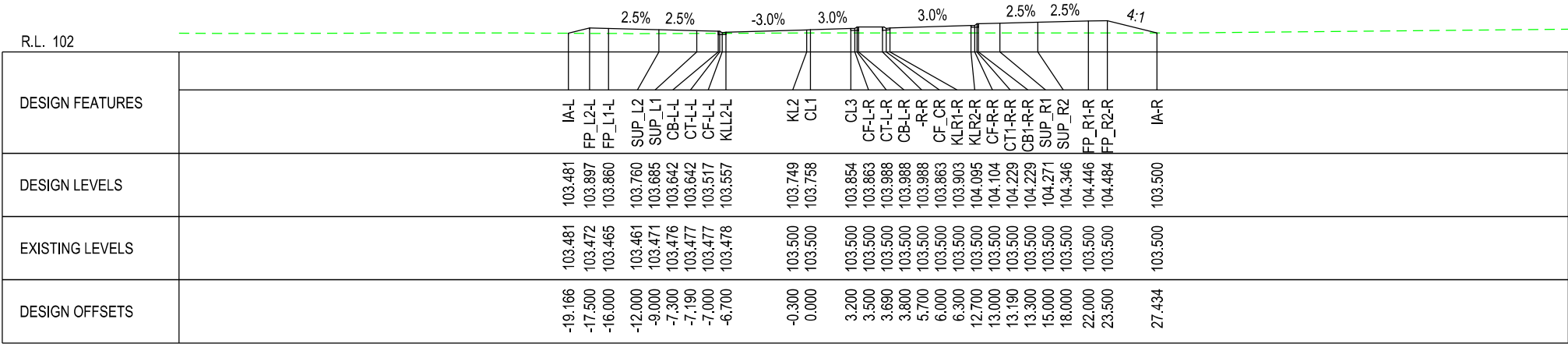
7500.000



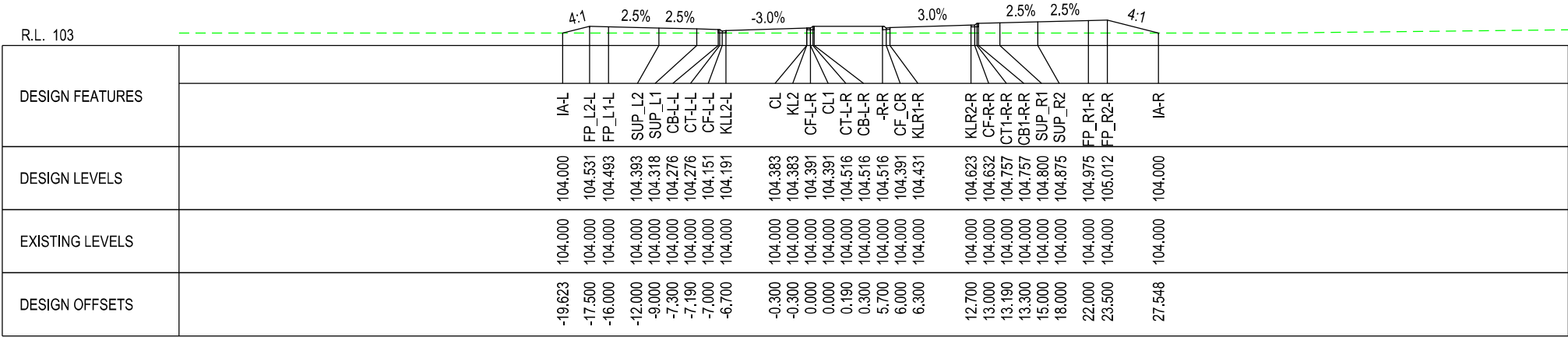
7400.000



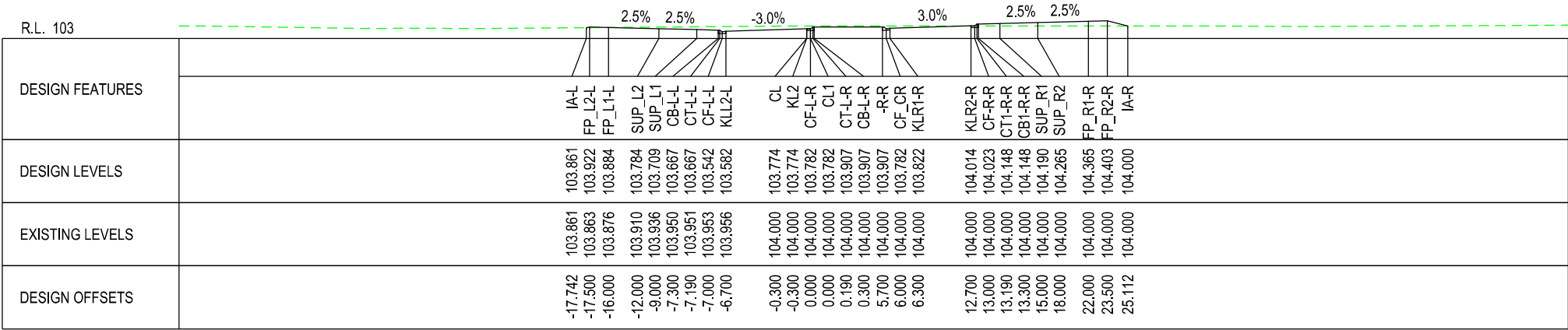
7300.000



7800.000



7700.000



7600.000

R.L. 100

DESIGN FEATURES	
DESIGN LEVELS	
EXISTING LEVELS	
DESIGN OFFSETS	

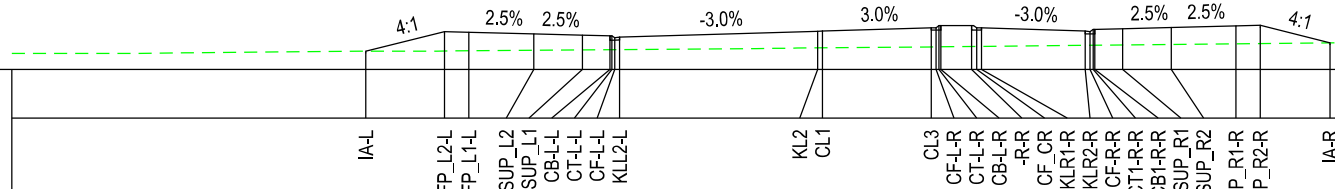
8400.000

R.L. 102

DESIGN FEATURES	
DESIGN LEVELS	
EXISTING LEVELS	
DESIGN OFFSETS	

8300.000

R.L. 102

DESIGN FEATURES																													
	IA-L	FP_L2-L	FP_L1-L	SUP_L2	SUP_L1	CB-L-L	CT-L-L	CF-L-L	KLL2-L		KL2	CL1		CL3	CF-L-R	CT-L-R	CB-L-R	-R-R	CF_CR	KLR1-R	KLR2-R	CT1-R-R	CB1-R-R	SUP_R1	SUP_R2	FP_R1-R	FP_R2-R	IA-R	
DESIGN LEVELS	103.124	104.338	104.300	104.200	104.125	104.083	104.083	104.083	103.998		104.364	104.373		104.574	104.582	104.707	104.707	104.707	104.582	104.574	104.382	104.342	104.467	104.467	104.509	104.584	104.684	104.722	103.649
EXISTING LEVELS	103.124	103.142	103.153	103.186	103.210	103.224	103.225	103.226	103.229		103.332	103.335		103.398	103.401	103.403	103.404	103.422	103.424	103.427	103.487	103.489	103.491	103.492	103.508	103.541	103.585	103.602	103.649
DESIGN OFFSETS	-28.161	-23.308	-21.808	-17.808	-14.808	-13.108	-12.998	-12.808	-12.508		-0.300	0.000		6.700	7.000	7.190	7.300	9.200	9.500	9.800	16.200	16.500	16.690	16.800	18.500	21.500	25.500	27.000	31.290

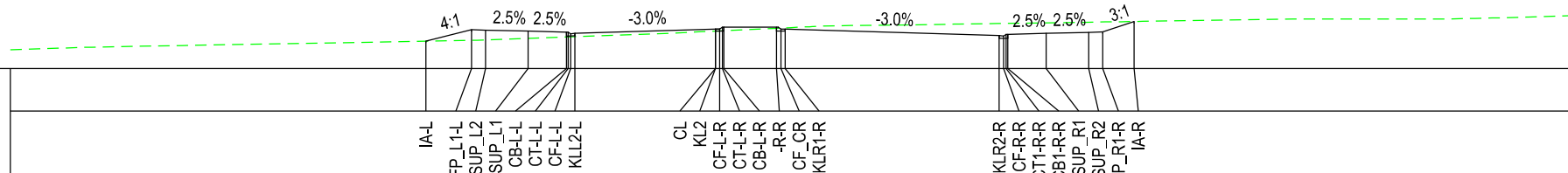
8200.000

R.L. 100

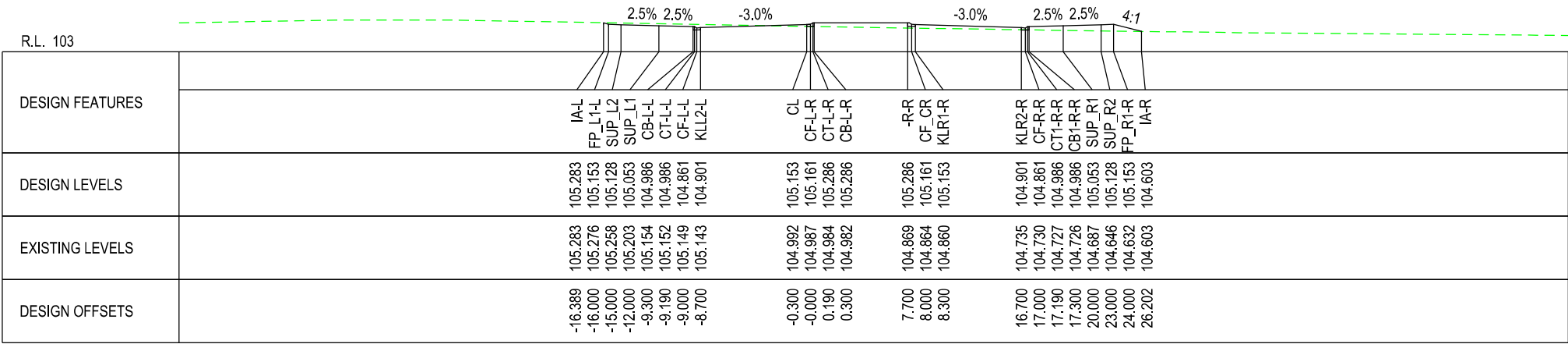
DESIGN FEATURES	
DESIGN LEVELS	
EXISTING LEVELS	
DESIGN OFFSETS	

8535.922

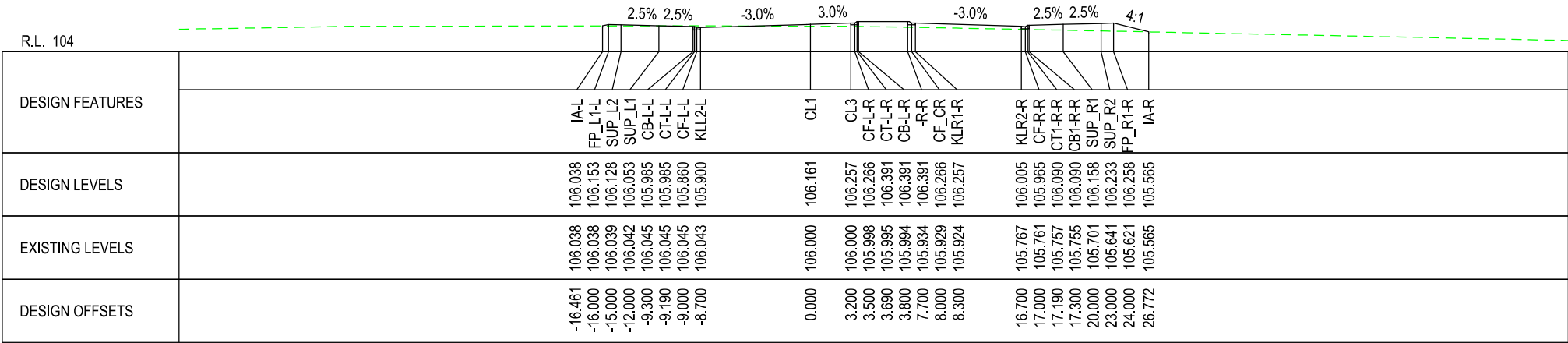
R.L. 100

DESIGN FEATURES																								
	IA-L	FP_L1-L	SUP_L2	SUP_L1	CB-L-L	CT-L-L	CF-L-L	KLL2-L	CL	KL2	CF-L-R	CT-L-R	CB-L-R	-R-R	CF_CR	KLR1-R	KLR2-R	CF-R-R	CT1-R-R	CB1-R-R	SUP_R1	SUP_R2	FP_R1-R	IA-R
DESIGN LEVELS	101.940	102.743	102.718	102.643	102.575	102.575	102.450	102.490	102.787	102.787	102.796	102.921	102.921	102.796	102.787	102.334	102.294	102.419	102.419	102.487	102.562	102.587	103.324	
EXISTING LEVELS	101.940	101.998	102.021	102.130	102.229	102.233	102.240	102.252	102.648	102.648	102.662	102.671	102.676	102.849	102.863	102.877	103.185	103.189	103.192	103.194	103.234	103.276	103.291	103.324
DESIGN OFFSETS	-20.709	-17.500	-16.500	-13.500	-10.800	-10.690	-10.500	-10.200	-0.300	-0.300	-0.000	0.190	0.300	4.012	4.312	4.612	19.700	20.000	20.190	20.300	23.000	26.000	27.000	29.211

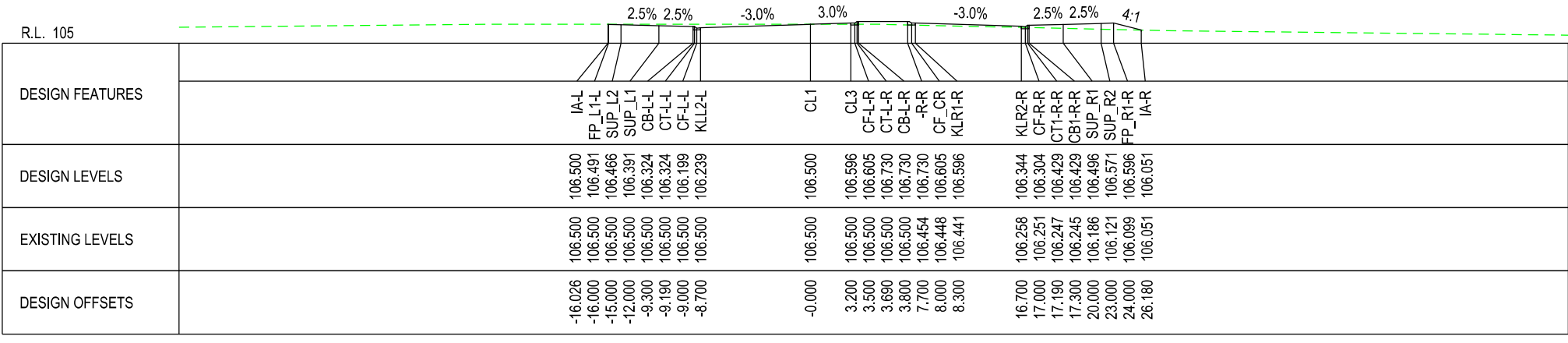
8500.000



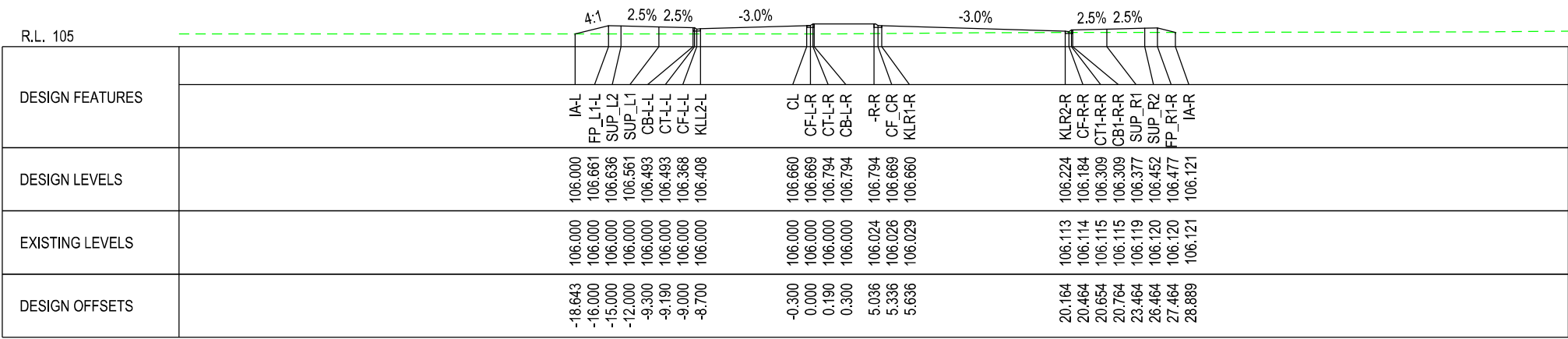
5200.000



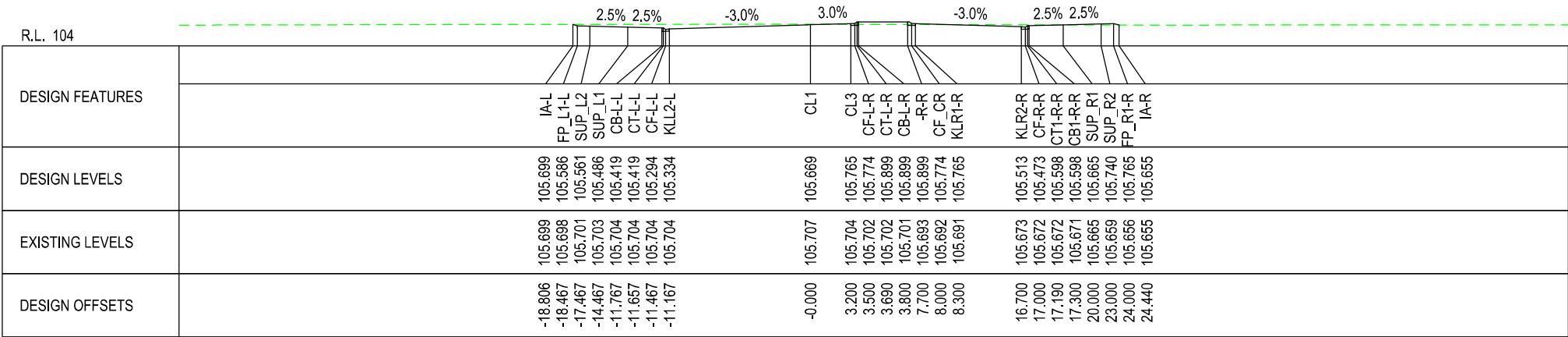
5100.000



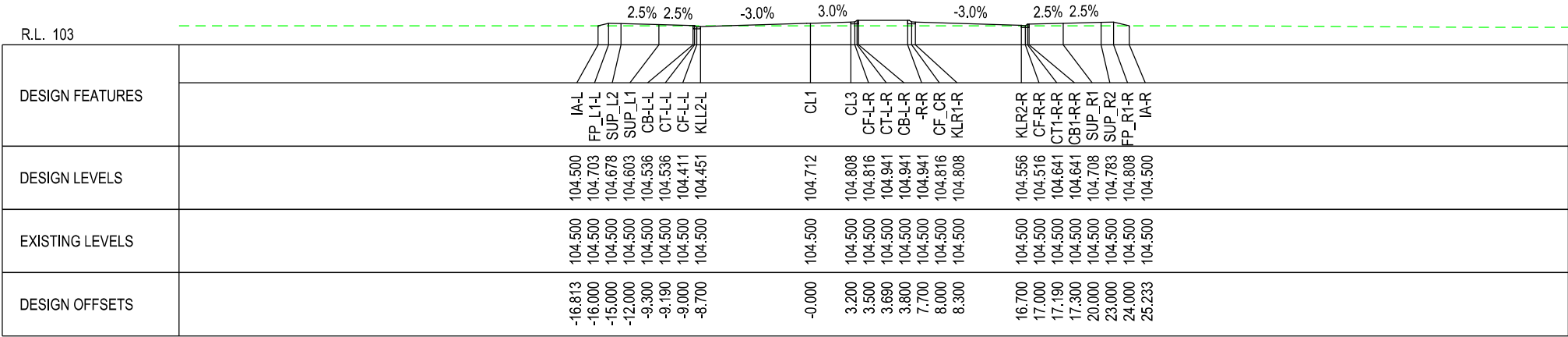
5000.000



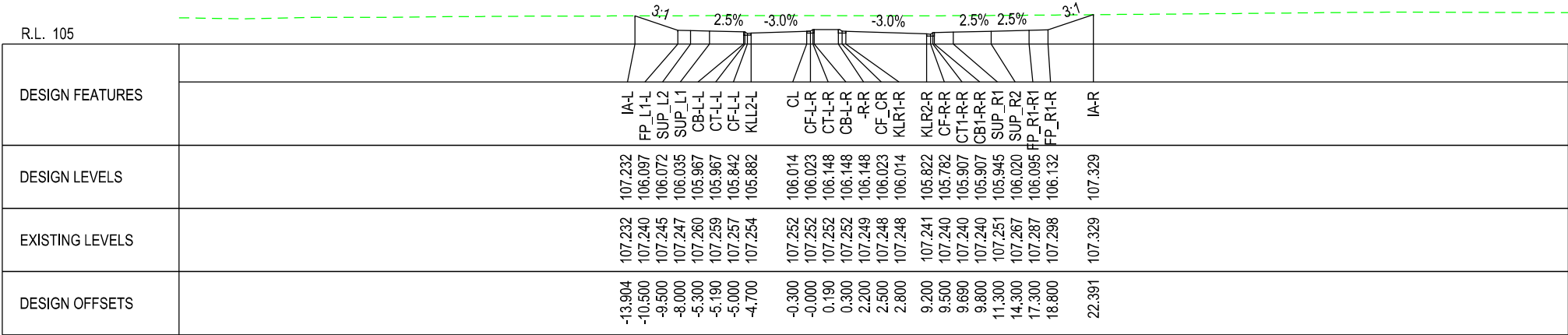
5500.000



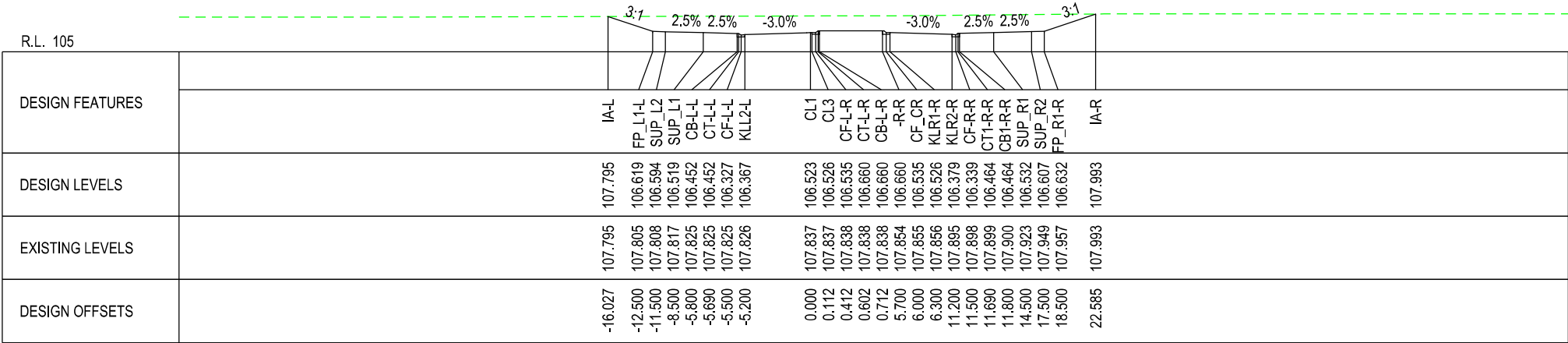
5400.000



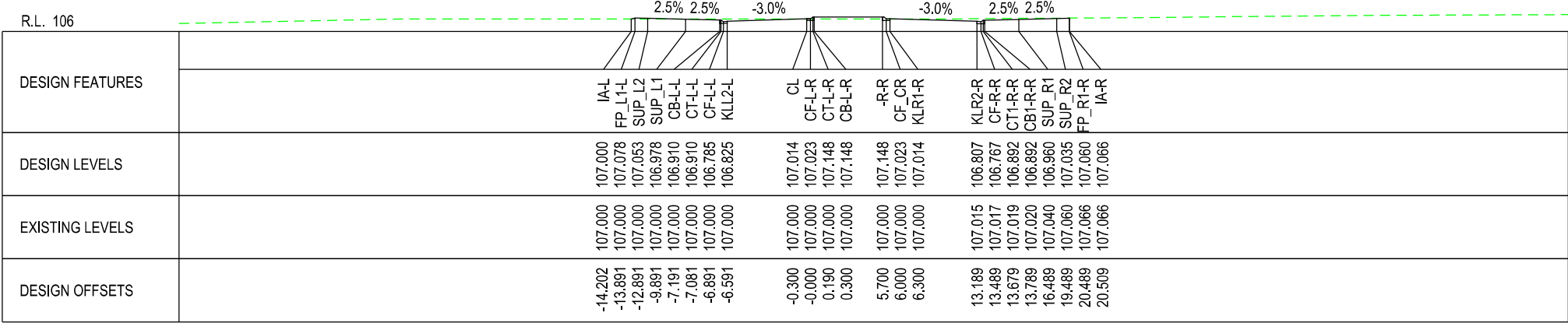
5300.000



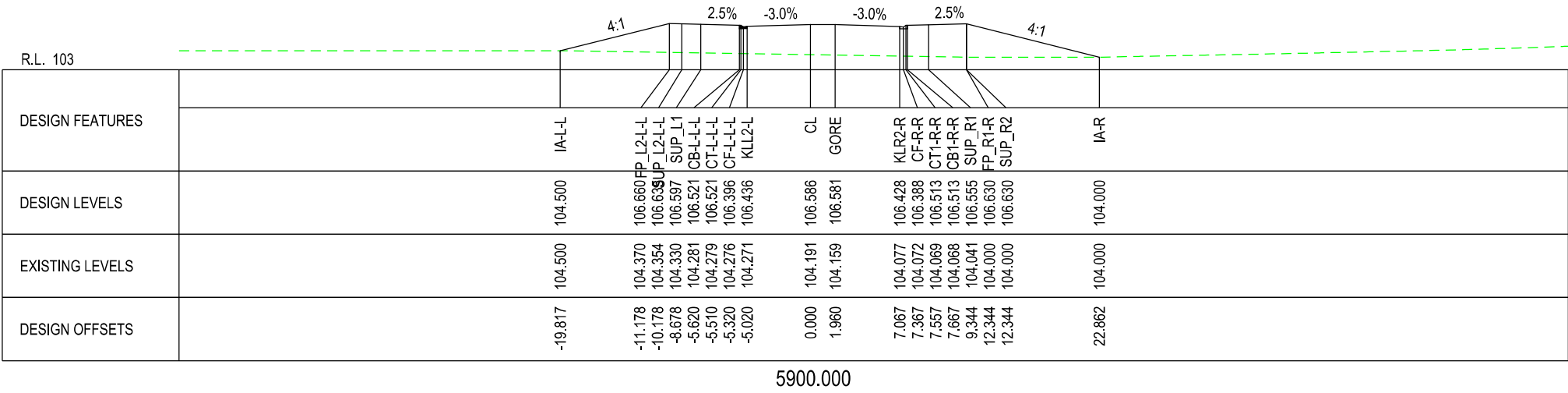
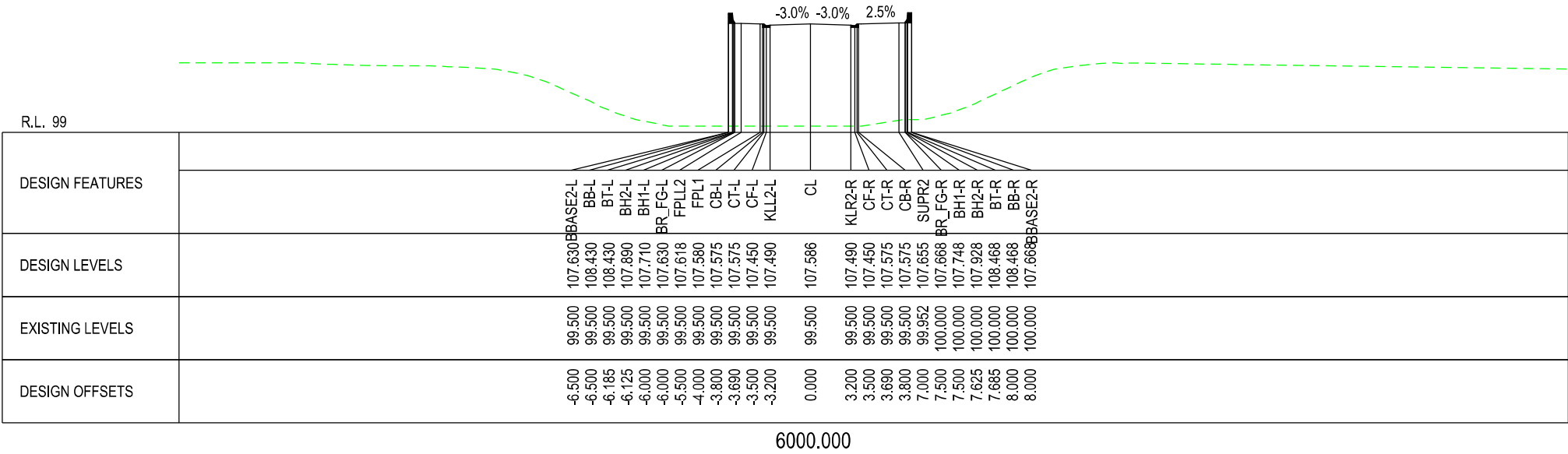
5800.000

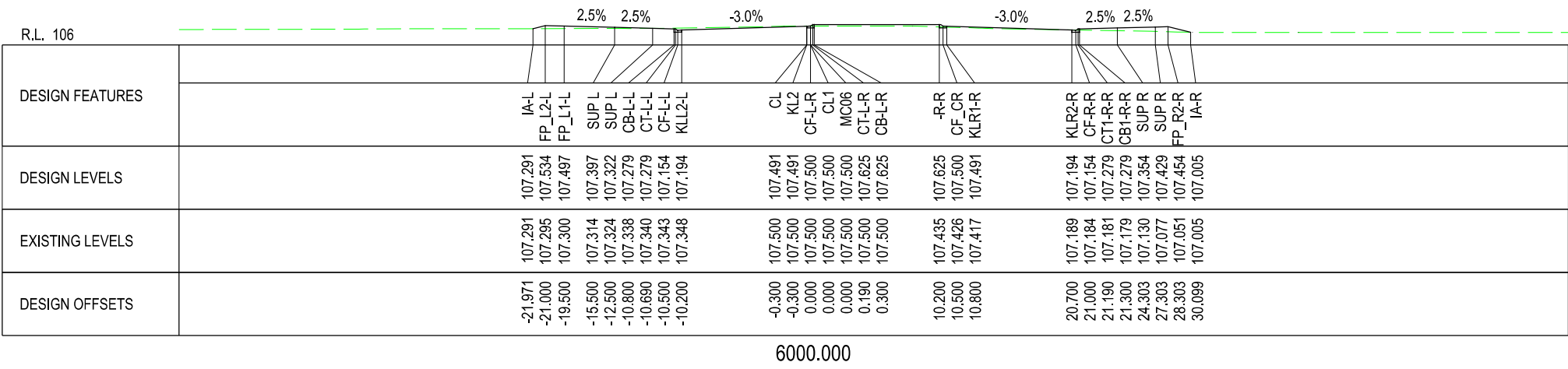
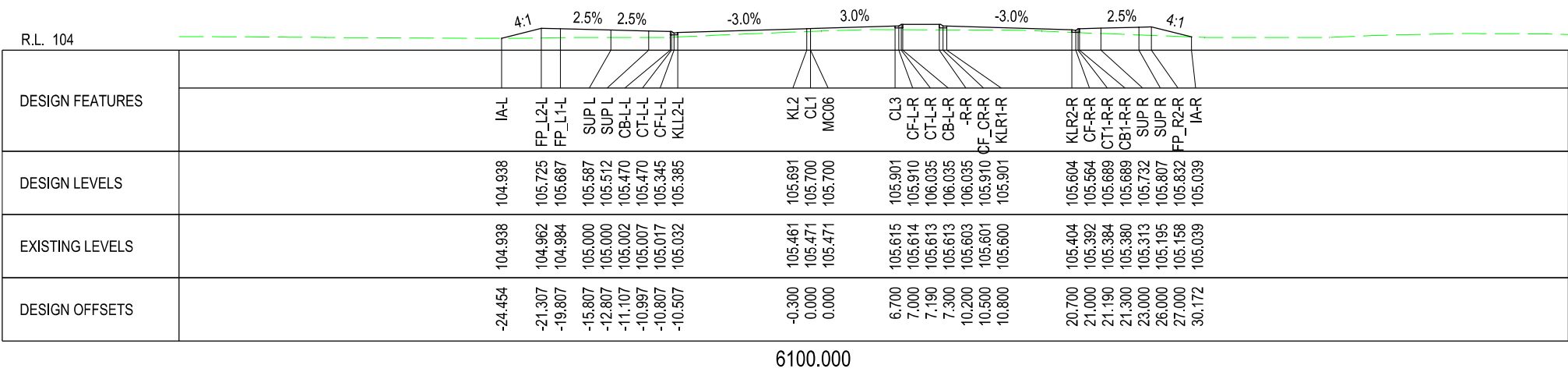
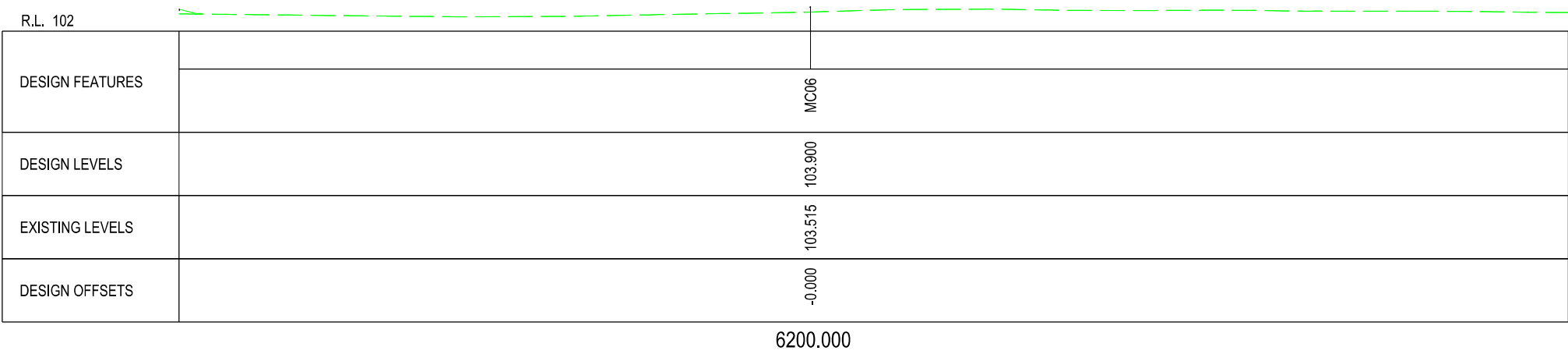


5700.000

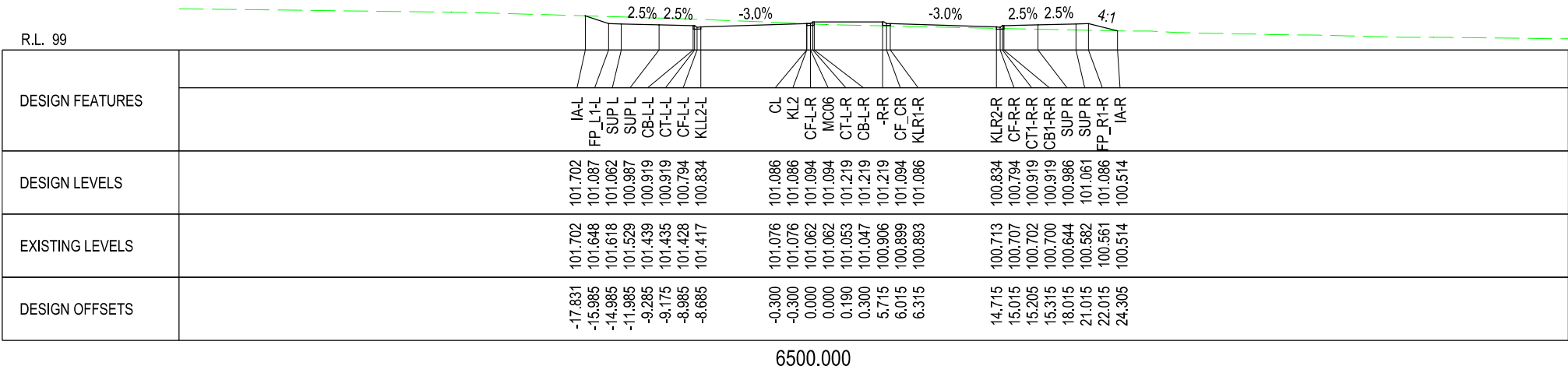


5600.000

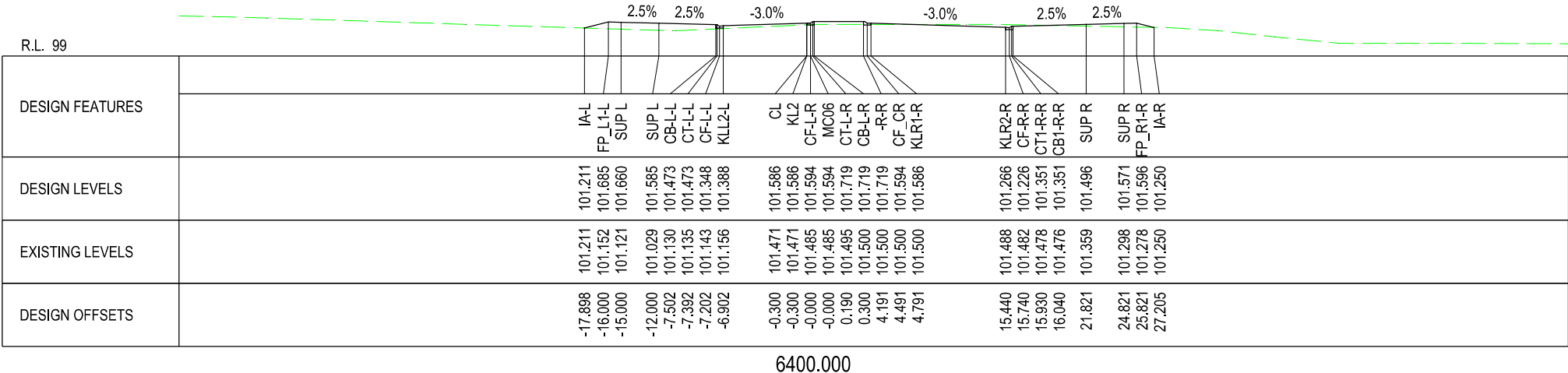




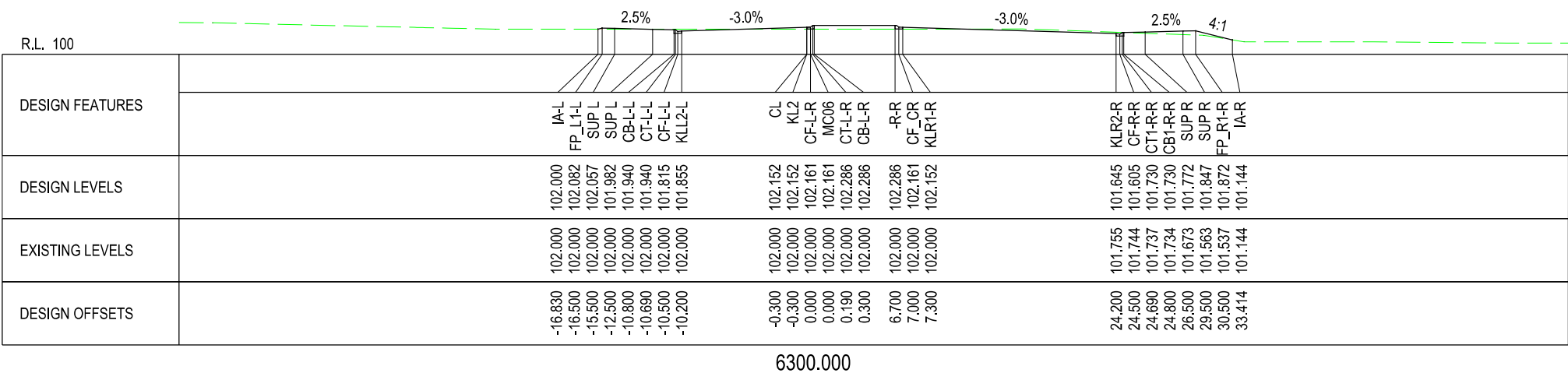
CROSS SECTIONS - MC06 - 6000.000 TO 6200.000



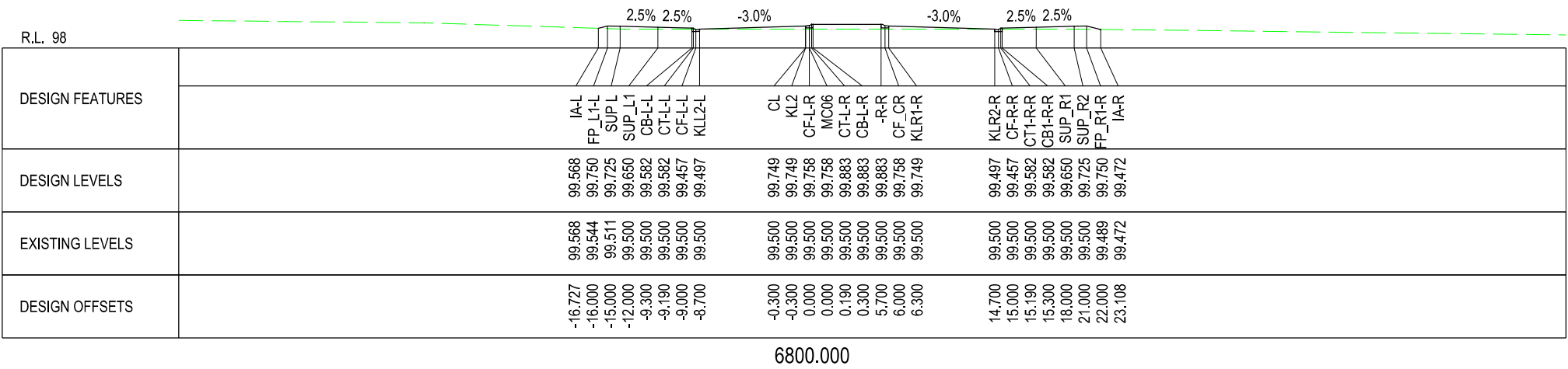
6500.000



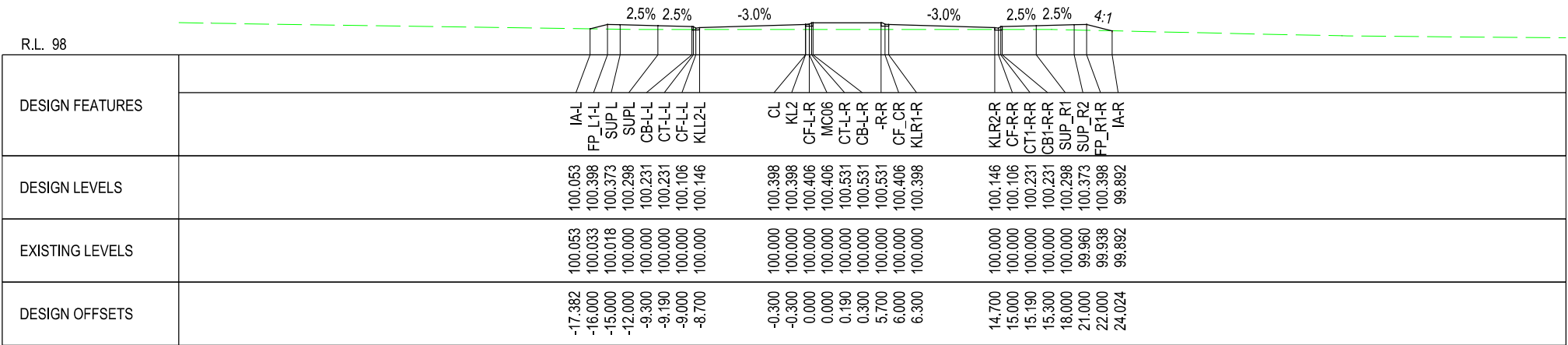
6400.000



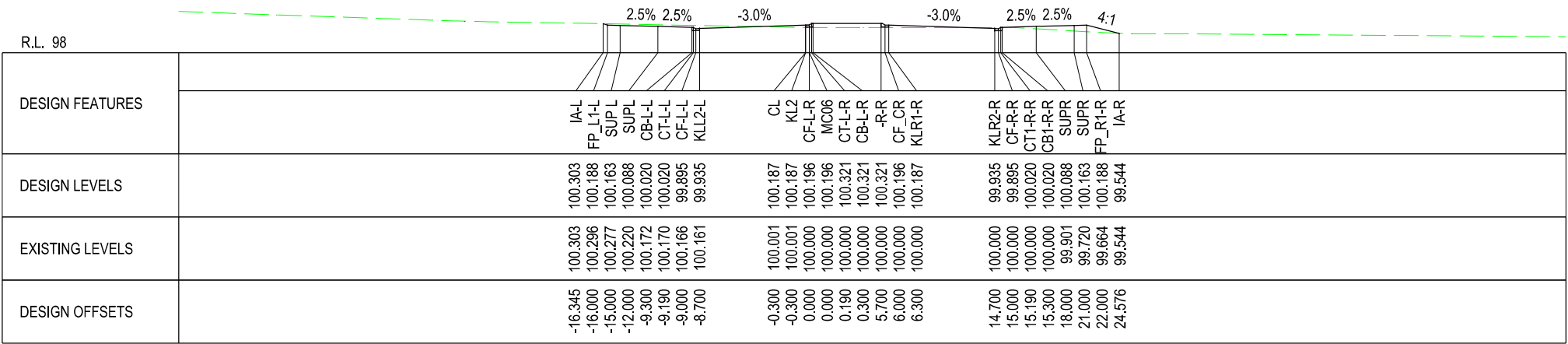
6300.000



6800.000



6700.000



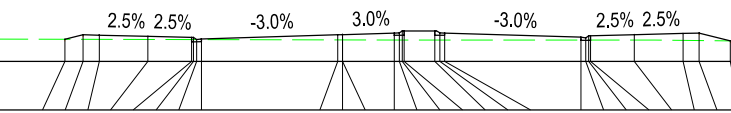
6600.000

R.L. 99

DESIGN FEATURES		
		MC06
DESIGN LEVELS		101.446
EXISTING LEVELS		100.634
DESIGN OFFSETS		0.000

7100.000

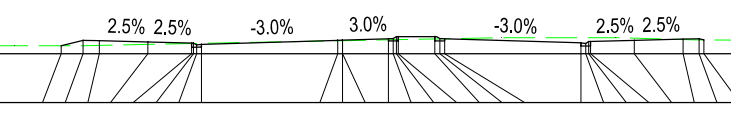
R.L. 99



DESIGN FEATURES		IA-L FP_L1-L SUP_L SUP_L1 CB-L-L CT-L-L CF-L-L KLL2-L		KL2 CL1 MC06 CL3 CF-L-R CT-L-R CB-L-R -R-R CF_CR KLR1-R		KLR2-R CF-R-R CT1-R-R CB1-R-R SUP_R1 SUP_R2 FP_R1-R IA-R
		100.358 100.637 100.612 100.537 100.470 100.470 100.345 100.385		100.637 100.646 100.646 100.742 100.750 100.875 100.875 100.750 100.742		100.490 100.450 100.575 100.575 100.642 100.717 100.742 100.262
DESIGN LEVELS		100.358 100.355 100.352 100.345 100.338 100.338 100.337 100.337		100.316 100.315 100.315 100.307 100.306 100.306 100.306 100.308 100.308		100.312 100.313 100.313 100.313 100.314 100.295 100.284 100.262
EXISTING LEVELS		-17.118 -16.000 -15.000 -12.000 -9.300 -9.190 -9.000 -8.700		-0.300 0.000 0.000 3.200 3.500 3.690 3.800 5.700 6.000		14.700 15.000 15.190 15.300 18.000 21.000 22.000 23.919
DESIGN OFFSETS						

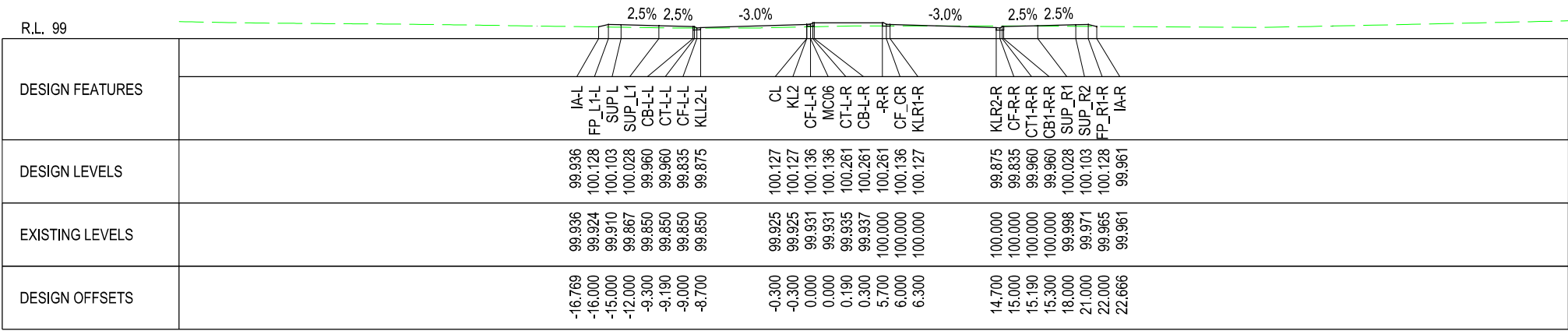
7000.000

R.L. 99

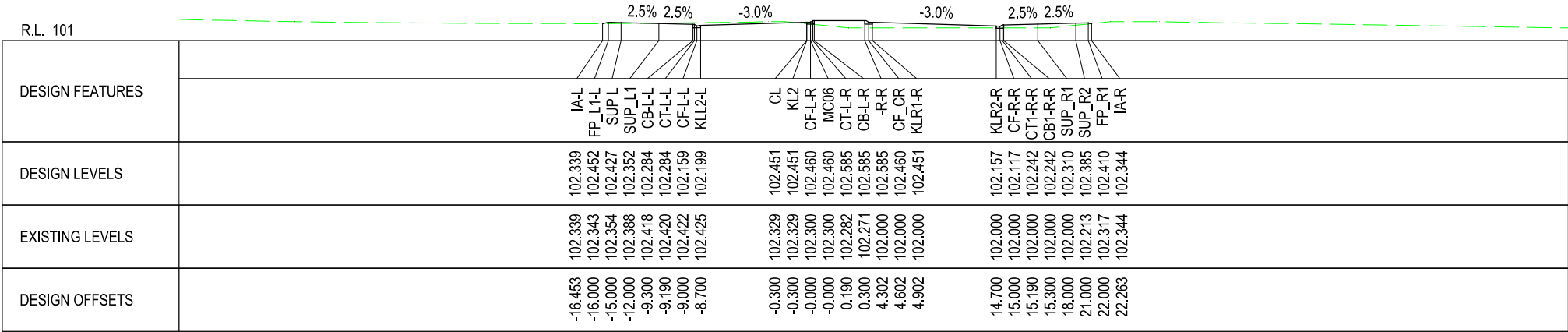


DESIGN FEATURES		IA-L FP_L1-L SUP_L SUP_L1 CB-L-L CT-L-L CF-L-L KLL2-L		KL2 CL1 MC06 CL3 CF-L-R CT-L-R CB-L-R -R-R CF_CR KLR1-R		KLR2-R CF-R-R CT1-R-R CB1-R-R SUP_R1 SUP_R2 FP_R1-R IA-R
		99.500 99.837 99.812 99.737 99.670 99.670 99.545 99.585		99.837 99.846 99.846 99.931 99.939 100.064 100.064 100.064 99.939 99.931		99.679 99.639 99.764 99.764 99.831 99.906 99.931 99.859
DESIGN LEVELS		99.500 99.500 99.520 99.581 99.635 99.637 99.640 99.646		99.807 99.813 99.813 99.867 99.872 99.876 99.878 99.921 99.927 99.933		100.000 100.000 100.000 100.000 99.968 99.884 99.861 99.859
EXISTING LEVELS		-17.349 -16.000 -15.000 -12.000 -9.300 -9.190 -9.000 -8.700		-0.300 -0.000 -0.000 2.836 3.136 3.326 3.436 5.700 6.000 6.300		14.700 15.000 15.190 15.300 18.000 21.000 22.000 22.288
DESIGN OFFSETS						

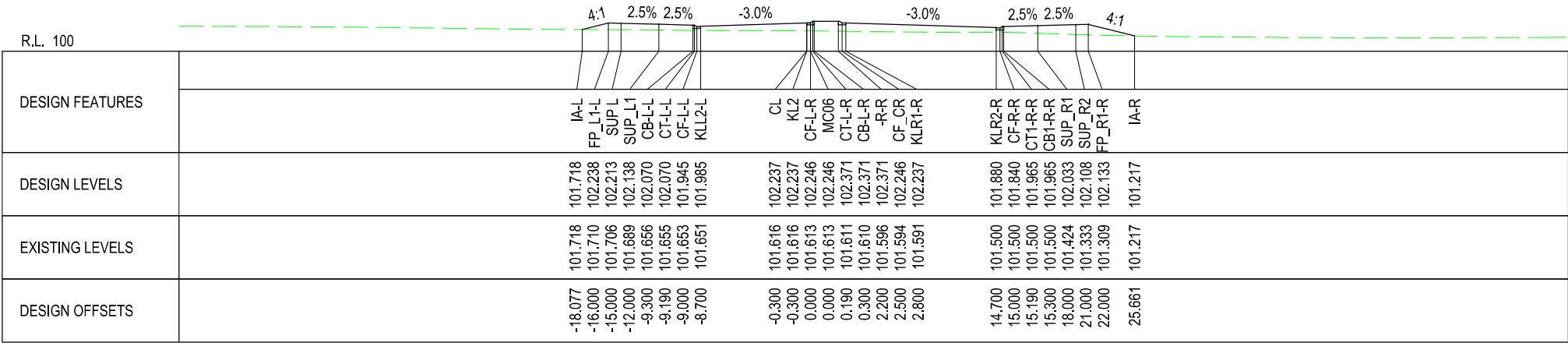
6900.000



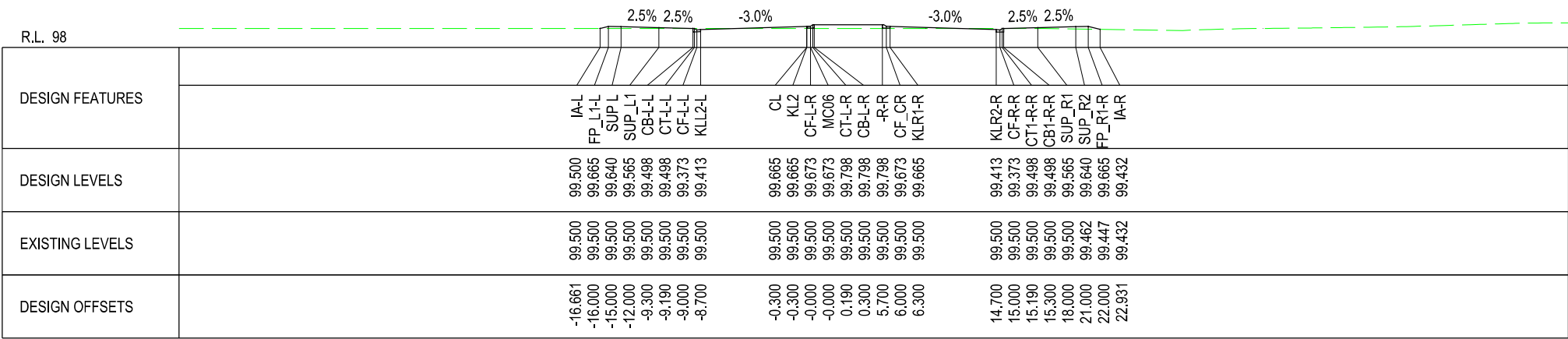
7400.000



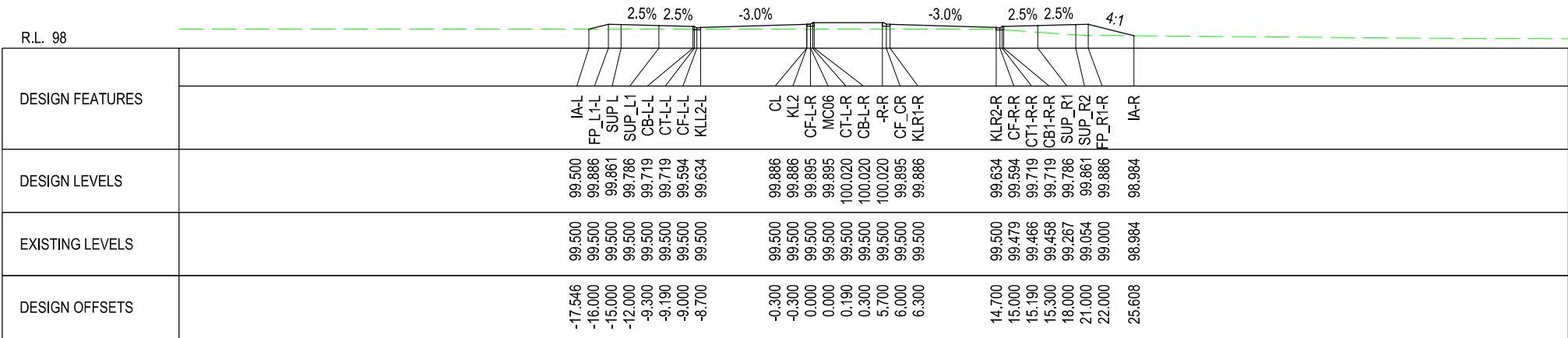
7300.000



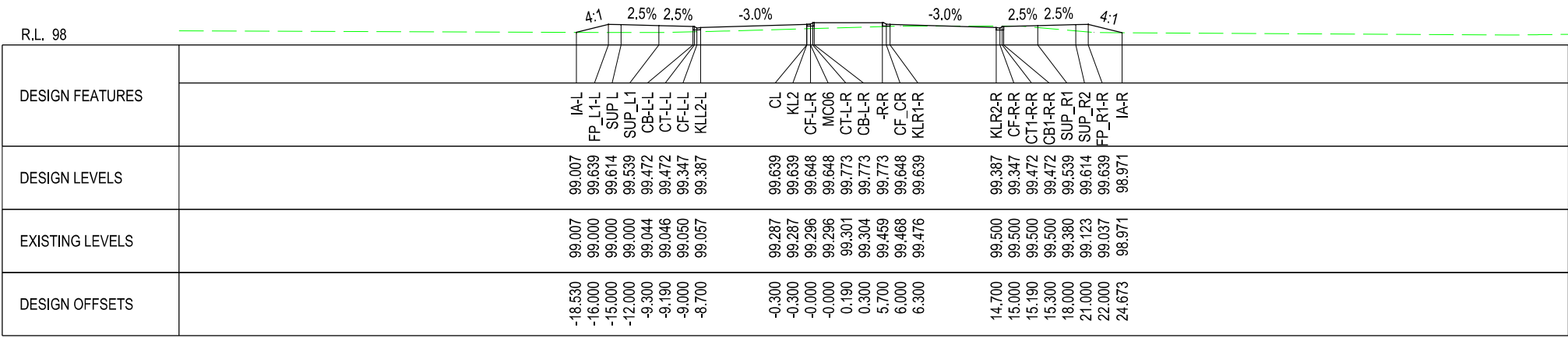
7200.000



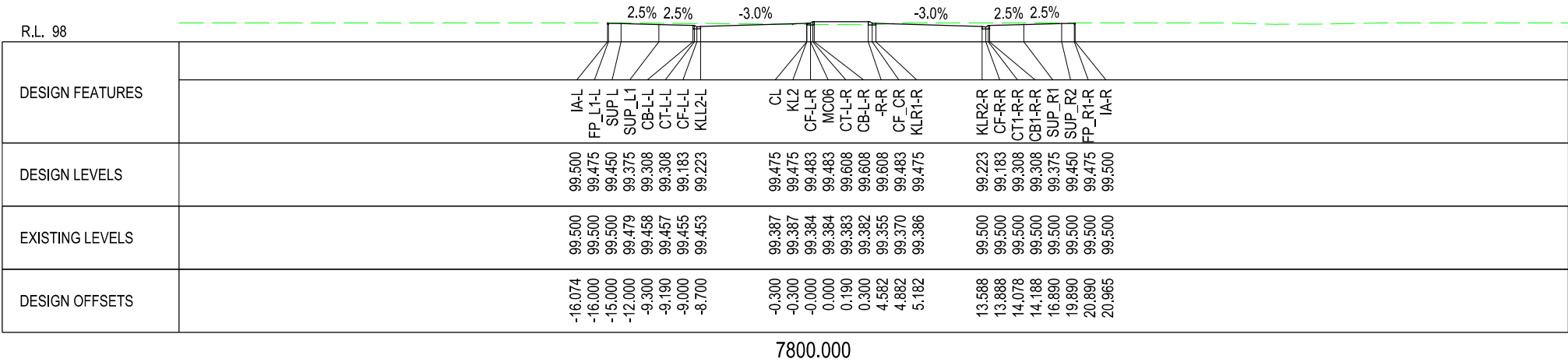
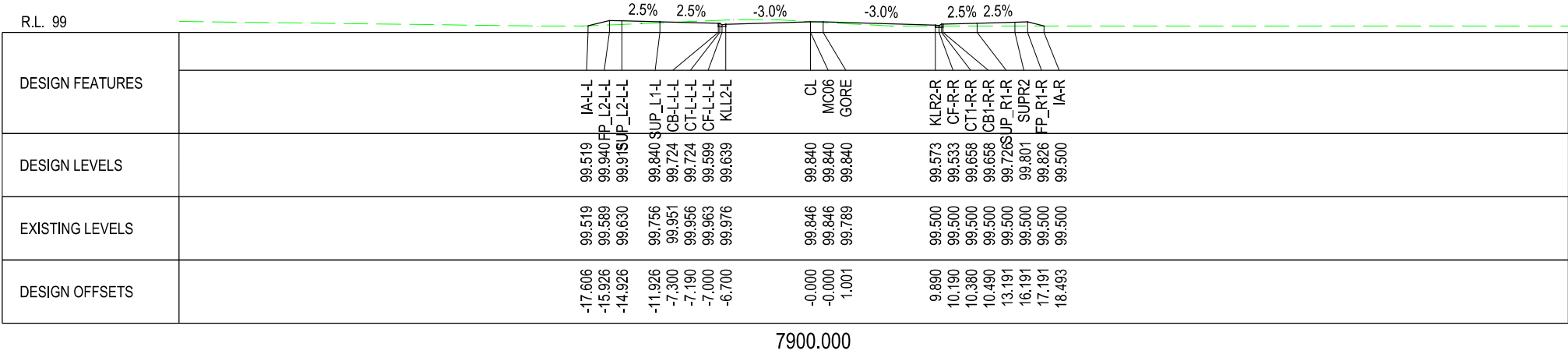
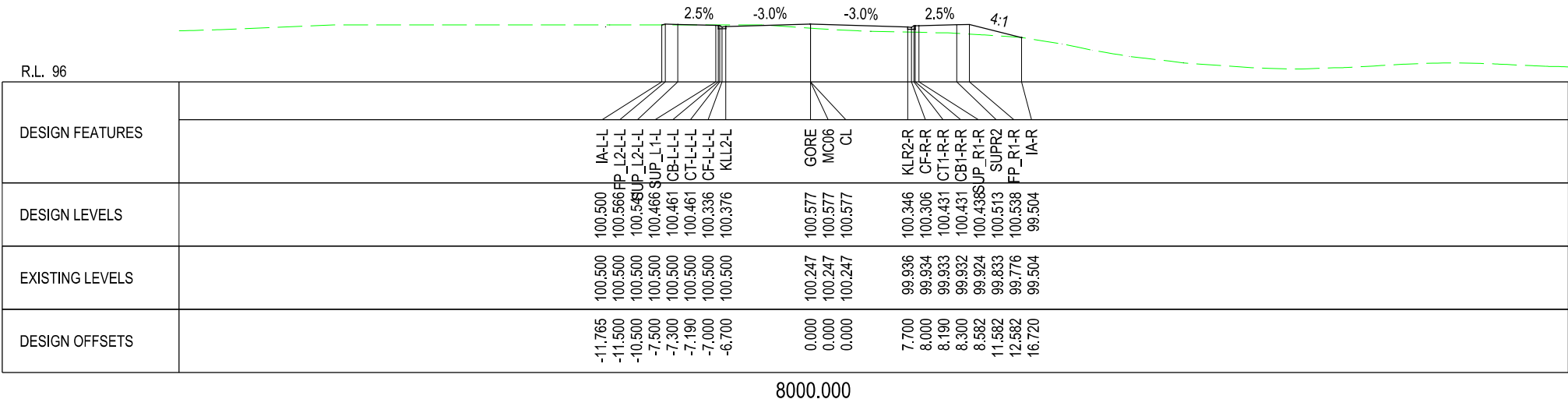
7700.000



7600.000



7500.000

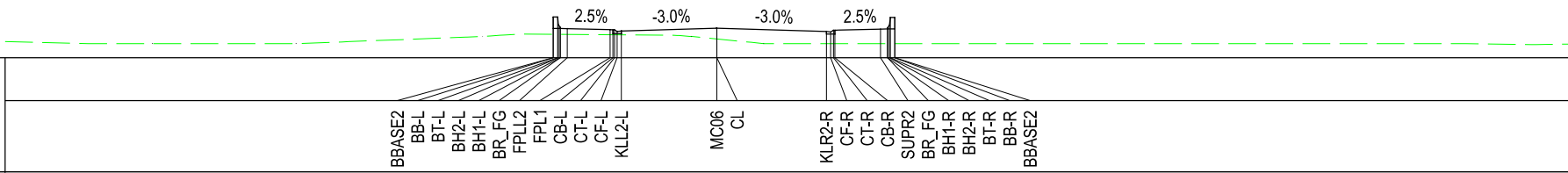


R.L. 99

DESIGN FEATURES	
DESIGN LEVELS	
EXISTING LEVELS	
DESIGN OFFSETS	

8180.000

R.L. 99

DESIGN FEATURES																									
	BBASE2	BB-L	BT-L	BH2-L	BH1-L	BR_FG	FPLL2	FPLL1	CB-L	CT-L	CF-L	KLL2-L	MC06	CL	KLR2-R	CF-R	CT-R	CB-R	SUPR2	BR_FG	BH1-R	BH2-R	BT-R	BB-R	BBASE2
DESIGN LEVELS	101.061	101.861	101.861	101.321	101.141	101.061	101.049	100.974	100.969	100.969	100.844	100.884	101.085	101.085	100.854	100.814	100.939	100.939	101.019	101.031	101.111	101.291	101.831	101.831	101.031
EXISTING LEVELS	100.656	100.656	100.653	100.653	100.652	100.652	100.647	100.622	100.620	100.619	100.618	100.615	100.324	100.324	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
DESIGN OFFSETS	-11.500	-11.500	-11.185	-11.125	-11.000	-11.000	-10.500	-7.500	-7.300	-7.190	-7.000	-6.700	-0.000	-0.000	7.700	8.000	8.190	8.300	11.500	12.000	12.125	12.185	12.500	12.500	12.500

8100.000

Appendix C **Final Cost Estimates**

Project	Description	Estimated Cost With benchmark cost index
IN-01	Melton Highway and North-South Connector Road	\$ 13,603,036.41
IN-02	Melton Highway and Mount Cottrell Road	\$ 12,812,516.00
IN-03	Mount Cottrell Road and East-West Connector Road	\$ 9,916,805.07
IN-04	Tarletons Road and Melton Highway	\$ 3,349,830.01
IN-05	Tarletons Road and North-South Connector Road	\$ 9,960,993.72
IN-06	Mount Cottrell Road and Tarletons Road	\$ 16,387,632.85
IN-07	Tarletons Road and North-South Connector Road	\$ 9,928,759.70
IN-08	Mount Cottrell Road and East-West Connector Road	\$ 10,403,335.58
IN-09	Taylors Road / Mount Cottrell Road / Connector	\$ 12,088,168.48
IN-10	Taylors Road and East-West Connector	\$ 9,699,247.78
IN-11	Taylors Road and North-South Connector	\$ 9,809,188.44
IN-12	Paynes Road and East-West Connector	\$ 4,701,327.37
IN-13	Paynes Road and Taylors Road	\$ 15,177,693.76
IN-14	Leakes Road and Beattys Road	\$ 11,444,933.88
IN-15	Paynes Road and East Connector	\$ 6,611,152.93
IN-16	Taylors Road and South Connector	\$ 8,031,736.39
IN-17	Taylors Road and Leakes Road	\$ 4,697,816.75
	TOTAL INTERSECTION COST	\$ 168,624,175.13

CU-01	Taylors Road (RD-03)	\$ 561,790.64
CU-02	Taylors Road (RD-03)	\$ 553,843.57
CU-03	Leakes Road (RD-05)	\$ 341,289.76
CU-04	Leakes Road (RD-05)	\$ 1,211,987.91
CU-05	Leakes Road (RD-05)	\$ 341,289.76
CU-06	Leakes Road (RD-05)	\$ 341,289.76
	TOTAL CULVERT COST	\$ 3,351,491.41

BR-01	Tarletons Road crossing Kororoit Creek	\$ 51,039,023.55
BR-02	Paynes Road crossing Kororoit Creek	\$ 26,254,869.67
BR-03	Leakes Road crossing Kororoit Creek	\$ 14,612,331.30
	TOTAL BRIDGE COST	\$ 91,906,224.52

RD-02-01	Tarletons Road (IN-04 to IN-05)	\$ 5,296,458.51
RD-02-02	Tarletons Road (IN-05 to IN-06)	\$ 3,320,097.57
RD-02-03	Tarletons Road (IN-06 to IN-07)	\$ 1,827,978.77
RD-02-04	Tarletons Road (IN-07 to BR-01)	\$ 5,532,527.38
RD-03-01	Taylors Road (IN-09 to IN-10)	\$ 3,180,363.65
RD-03-02	Taylors Road (IN-10 to IN-11)	\$ 7,837,585.77
RD-03-03	Taylors Road (IN-11 to IN-13)	\$ 2,315,310.26
RD-03-04	Taylors Road (IN-13 to IN-16)	\$ 8,863,446.65
RD-04-01	Paynes Road (BR-02 to IN-12)	\$ 1,277,958.26
RD-05-01	Leakes Road (BR-03 to IN-14)	\$ 6,871,982.18
RD-05-02	Leakes Road (IN-14 to IN-17)	\$ 4,369,320.84
	TOTAL ROAD SECTION COST	\$ 50,693,029.83

TOTAL PROJECT COST	\$ 314,574,920.88
---------------------------	--------------------------

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

Refer to IN-01A for expected contribution from delivery agent

IN-01 - Melton Highway and North-South Connector Road Intersection - Primary - Connector T-Signalised Intersection (Benchmark Item 13)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	33303	m2	4.96	1.29	\$ 213,083.50
	1.2	Soil stabilisation - gypsum treatment	2217	m2	4.65	1.29	\$ 13,295.81
	1.3	Earthworks	9003	m3	40.52	1.29	\$ 470,577.49
	1.4	Erosion protection for 1:4 batters	2350	m2	4.29	1.29	\$ 13,006.20
Road Pavement	2.1	Primary Arterial Pavement	9995	m2	186.26	1.29	\$ 2,401,585.42
	2.2	Collector Arterial Pavement	1142	m2	112.44	1.29	\$ 165,681.90
	2.3	Subgrade Preparation	2227	m2	16.16	1.29	\$ 46,434.92
	2.4	Lime stabilisation, 0.5m past BoK	11137	m2	54.22	1.29	\$ 778,991.75
Concrete Works	3.1	Kerb and Channel	2350	m	60.9	1.29	\$ 184,633.44
	3.2	Traffic Island	218	m2	84.07	1.29	\$ 23,636.30
	3.3	SUP/footpath/ Cycle Path	6007	m2	91.94	1.29	\$ 712,483.60
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	750	m	282.96	1.29	\$ 273,763.80
	4.3	Drainage Pipe 450mm CR Bfilled	380	m	334.33	1.29	\$ 163,888.57
	4.4	Drainage Pipe 600mm CR Bfilled	380	m	550	1.29	\$ 269,610.00
	4.5	Drainage - Pits	37	No.	2806.1	1.29	\$ 133,935.15
	4.6	Drainage - Subsoil Drainage	2376	m	43.4	1.29	\$ 133,005.50
Traffic	5.1	Traffic Signals	4	Item/ per leg	128786.34	1.29	\$ 664,537.51
Landscape	6.1	Trees	53	No. m2 m2	363.01	1.29	\$ 24,818.99
	6.2	Landscaping	15940	m2	25.16	1.29	\$ 517,353.80
	6.3	Topsoil Seeding	15940	m2	8.44	1.29	\$ 173,547.94
Street Lighting	7.1	Street Lighting	13	Item/ per leg	55617.74	1.29	\$ 932,709.50
Miscellaneous	8.1	Linemarking	23152	m2 of pavement	4.09	1.29	\$ 122,152.44
	8.2	Regulatory Signage	32	Item	380.39	1.29	\$ 15,702.50
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	24	Item	319.78	1.29	\$ 9,900.39
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	118	m3	206	1.29	\$ 31,426.41
	9.2	Rock allowance	2227	m3	116.53	1.29	\$ 334,842.89
	9.3	Redundant pavement demolition	2605	m3	206	1.29	\$ 692,172.98
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 312,990.22
	10.2	VicRoads Fees	1	%	1	1	\$ 96,304.68
	10.3	Traffic Management	1	%	5	1	\$ 481,523.41
	10.4	Environmental Management	1	%	0.5	1	\$ 48,152.34
	10.5	Survey/Design	1	%	5	1	\$ 481,523.41
	10.6	Supervision and Project Management	1	%	9	1	\$ 866,742.14
	10.7	Site Establishment	1	%	2.5	1	\$ 240,761.71
	10.8	Contingency	1	%	15	1	\$ 1,444,570.24
Total		Excluding Delivery				1	\$ 9,630,468.25
		Including Delivery					\$ 13,603,036.41

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

Refer to IN-02A for expected contribution from delivery agent

IN-02 - Melton Highway and Mount Cottrell Road Intersection - Primary - Connector Intersection (Benchmark Item 7)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	30346	m2	4.96	1.29	\$ 194,165.96
	1.2	Soil stabilisation - gypsum treatment	1890	m2	4.65	1.29	\$ 11,334.36
	1.3	Earthworks	9350	m3	40.52	1.29	\$ 488,746.49
	1.4	Erosion protection for 1:4 batters	2415	m2	4.29	1.29	\$ 13,365.22
Road Pavement	2.1	Primary Arterial Pavement	10473	m2	186.26	1.29	\$ 2,516,335.81
	2.2	Collector Arterial Pavement	978	m2	112.44	1.29	\$ 141,853.59
	2.3	Subgrade Preparation	2290	m2	16.16	1.29	\$ 47,741.15
	2.4	Lime stabilisation, 0.5m past Bok	11451	m2	54.22	1.29	\$ 800,905.10
Concrete Works	3.1	Kerb and Channel	2415	m	60.9	1.29	\$ 189,730.06
	3.2	Traffic Island	646	m2	84.07	1.29	\$ 70,089.82
	3.3	SUP/footpath/ Cycle Path	6049	m2	91.94	1.29	\$ 717,433.17
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	730	m	282.96	1.29	\$ 266,463.43
	4.3	Drainage Pipe 450mm CR Bfilled	370	m	334.33	1.29	\$ 159,575.71
	4.4	Drainage Pipe 600mm CR Bfilled	370	m	550	1.29	\$ 262,515.00
	4.5	Drainage - Pits	33	No.	2806.1	1.29	\$ 119,455.68
	4.6	Drainage - Subsoil Drainage	2433	m	43.4	1.29	\$ 136,217.68
Traffic	5.1	Traffic Signals	4	Item/ per leg	128786.34	1.29	\$ 664,537.51
Landscape	6.1	Trees	51	No. m2 m2	363.01	1.29	\$ 23,882.43
	6.2	Landscaping	12200	m2	25.16	1.29	\$ 395,967.65
	6.3	Topsoil Seeding	12200	m2	8.44	1.29	\$ 132,828.58
Street Lighting	7.1	Street Lighting	14	Item/ per leg	55617.74	1.29	\$ 1,004,456.38
Miscellaneous	8.1	Linemarking	23549	m2 of pavement	4.09	1.29	\$ 124,245.81
	8.2	Regulatory Signage	34	Item	380.39	1.29	\$ 16,683.91
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	24	Item	319.78	1.29	\$ 9,900.39
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	2290	m3	116.53	1.29	\$ 344,262.16
	9.3	Redundant pavement demolition	393	m3	206	1.29	\$ 104,425.19
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 294,801.25
	10.2	VicRoads Fees	1	%	1	1	\$ 90,708.08
	10.3	Traffic Management	1	%	5	1	\$ 453,540.39
	10.4	Environmental Management	1	%	0.5	1	\$ 45,354.04
	10.5	Survey/Design	1	%	5	1	\$ 453,540.39
	10.6	Supervision and Project Management	1	%	9	1	\$ 816,372.70
	10.7	Site Establishment	1	%	2.5	1	\$ 226,770.19
	10.8	Contingency	1	%	15	1	\$ 1,360,621.17
Total		Excluding Delivery				1	\$ 9,070,807.79
		Including Delivery					\$ 12,812,516.00

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

IN-03 - Mount Cottrell Road and East-West Connector Road
Intersection - Primary - Connector Intersection (Benchmark Item 7)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	18915	m2	4.96	1.29	\$ 121,023.15
	1.2	Soil stabilisation - gypsum treatment	972	m2	4.65	1.29	\$ 5,828.34
	1.3	Earthworks	7415	m3	40.52	1.29	\$ 387,614.03
	1.4	Erosion protection for 1:4 batters	1817	m2	4.29	1.29	\$ 10,054.01
Road Pavement	2.1	Primary Arterial Pavement	7571	m2	186.26	1.29	\$ 1,819,197.57
	2.2	Collector Arterial Pavement	1627	m2	112.44	1.29	\$ 235,987.19
	2.3	Subgrade Preparation	1840	m2	16.16	1.29	\$ 38,350.14
	2.4	Lime stabilisation, 0.5m past BoK	9198	m2	54.22	1.29	\$ 643,361.65
Concrete Works	3.1	Kerb and Channel	1817	m	60.9	1.29	\$ 142,724.79
	3.2	Traffic Island	806	m2	84.07	1.29	\$ 87,365.47
	3.3	SUP/footpath/ Cycle Path	4852	m2	91.94	1.29	\$ 575,504.78
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	610	m	282.96	1.29	\$ 222,661.22
	4.3	Drainage Pipe 450mm CR Bfilled	310	m	334.33	1.29	\$ 133,698.57
	4.4	Drainage Pipe 600mm CR Bfilled	310	m	550	1.29	\$ 219,945.00
	4.5	Drainage - Pits	28	No.	2806.1	1.29	\$ 101,356.33
	4.6	Drainage - Subsoil Drainage	1846	m	43.4	1.29	\$ 103,335.52
Traffic	5.1	Traffic Signals	4	Item/ per leg	128786.34	1.29	\$ 664,537.51
Landscape	6.1	Trees	51	No. m2 m2	363.01	1.29	\$ 23,882.43
	6.2	Landscaping	4058	m2	25.16	1.29	\$ 131,720.10
	6.3	Topsoil Seeding	4058	m2	8.44	1.29	\$ 44,185.92
Street Lighting	7.1	Street Lighting	11	Item/ per leg	55617.74	1.29	\$ 789,215.73
Miscellaneous	8.1	Linemarking	18903	m2 of pavement	4.09	1.29	\$ 99,734.24
	8.2	Regulatory Signage	32	Item	380.39	1.29	\$ 15,702.50
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	24	Item	319.78	1.29	\$ 9,900.39
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	1840	m3	116.53	1.29	\$ 276,543.46
	9.3	Redundant pavement demolition	14	m3	206	1.29	\$ 3,627.35
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 228,174.28
	10.2	VicRoads Fees	1	%	1	1	\$ 70,207.47
	10.3	Traffic Management	1	%	5	1	\$ 351,037.35
	10.4	Environmental Management	1	%	0.5	1	\$ 35,103.73
	10.5	Survey/Design	1	%	5	1	\$ 351,037.35
	10.6	Supervision and Project Management	1	%	9	1	\$ 631,867.23
	10.7	Site Establishment	1	%	2.5	1	\$ 175,518.67
	10.8	Contingency	1	%	15	1	\$ 1,053,112.04
Total		Excluding Delivery					\$ 7,020,746.95
		Including Delivery					\$ 9,916,805.07

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

IN-04 - Tarletons Road and Melton Highway
Intersection - Primary - Primary Intersection (Benchmark Item 5)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	8744	m2	4.96	1.29	\$ 55,950.67
	1.2	Soil stabilisation - gypsum treatment	639	m2	4.65	1.29	\$ 3,834.36
	1.3	Earthworks	2129	m3	40.52	1.29	\$ 111,268.55
	1.4	Erosion protection for 1:4 batters	724	m2	4.29	1.29	\$ 4,004.41
Road Pavement	2.1	Primary Arterial Pavement	2352	m2	186.26	1.29	\$ 565,194.10
	2.2	Collector Arterial Pavement	0	m2	112.44	1.29	\$ -
	2.3	Subgrade Preparation	470	m2	16.16	1.29	\$ 9,807.30
	2.4	Lime stabilisation, 0.5m past Bok	2352	m2	54.22	1.29	\$ 164,527.14
Concrete Works	3.1	Kerb and Channel	724	m	60.9	1.29	\$ 56,845.86
	3.2	Traffic Island	0	m2	84.07	1.29	\$ -
	3.3	SUP/footpath/ Cycle Path	2234	m2	91.94	1.29	\$ 264,968.15
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	190	m	282.96	1.29	\$ 69,353.50
	4.3	Drainage Pipe 450mm CR Bfilled	100	m	334.33	1.29	\$ 43,128.57
	4.4	Drainage Pipe 600mm CR Bfilled	100	m	550	1.29	\$ 70,950.00
	4.5	Drainage - Pits	9	No.	2806.1	1.29	\$ 32,578.82
	4.6	Drainage - Subsoil Drainage	768	m	43.4	1.29	\$ 43,013.42
Traffic	5.1	Traffic Signals	1	Item/ per leg	128786.34	1.29	\$ 166,134.38
Landscape	6.1	Trees	30	No. m2 m2	363.01	1.29	\$ 14,048.49
	6.2	Landscaping	4158	m2	25.16	1.29	\$ 134,957.56
	6.3	Topsoil Seeding	4158	m2	8.44	1.29	\$ 45,271.93
Street Lighting	7.1	Street Lighting	4	Item/ per leg	55617.74	1.29	\$ 286,987.54
Miscellaneous	8.1	Linemarking	6820	m2 of pavement	4.09	1.29	\$ 35,985.34
	8.2	Regulatory Signage	9	Item	380.39	1.29	\$ 4,416.33
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	4	Item	319.78	1.29	\$ 1,650.06
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	9	m3	206	1.29	\$ 2,274.47
	9.2	Rock allowance	470	m3	116.53	1.29	\$ 70,720.57
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 77,075.73
	10.2	VicRoads Fees	1	%	1	1	\$ 23,715.61
	10.3	Traffic Management	1	%	5	1	\$ 118,578.05
	10.4	Environmental Management	1	%	0.5	1	\$ 11,857.81
	10.5	Survey/Design	1	%	5	1	\$ 118,578.05
	10.6	Supervision and Project Management	1	%	9	1	\$ 213,440.50
	10.7	Site Establishment	1	%	2.5	1	\$ 59,289.03
	10.8	Contingency	1	%	15	1	\$ 355,734.16
Total		Excluding Delivery					\$ 2,371,561.07
		Including Delivery					\$ 3,349,830.01

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

IN-05 - Tarletons Road and North-South Connector
Intersection - Primary - Connector Intersection (Benchmark Item 7)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	21826	m2	4.96	1.29	\$ 139,650.78
	1.2	Soil stabilisation - gypsum treatment	1315	m2	4.65	1.29	\$ 7,885.52
	1.3	Earthworks	7005	m3	40.52	1.29	\$ 366,149.82
	1.4	Erosion protection for 1:4 batters	1828	m2	4.29	1.29	\$ 10,119.04
Road Pavement	2.1	Primary Arterial Pavement	7068	m2	186.26	1.29	\$ 1,698,274.72
	2.2	Collector Arterial Pavement	1612	m2	112.44	1.29	\$ 233,821.50
	2.3	Subgrade Preparation	1736	m2	16.16	1.29	\$ 36,189.63
	2.4	Lime stabilisation, 0.5m past Bok	8680	m2	54.22	1.29	\$ 607,116.87
Concrete Works	3.1	Kerb and Channel	1828	m	60.9	1.29	\$ 143,647.92
	3.2	Traffic Island	234	m2	84.07	1.29	\$ 25,424.63
	3.3	SUP/footpath/ Cycle Path	5209	m2	91.94	1.29	\$ 617,856.96
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	610	m	282.96	1.29	\$ 222,661.22
	4.3	Drainage Pipe 450mm CR Bfilled	310	m	334.33	1.29	\$ 133,698.57
	4.4	Drainage Pipe 600mm CR Bfilled	310	m	550	1.29	\$ 219,945.00
	4.5	Drainage - Pits	28	No.	2806.1	1.29	\$ 101,356.33
	4.6	Drainage - Subsoil Drainage	1857	m	43.4	1.29	\$ 103,993.38
Traffic	5.1	Traffic Signals	4	Item/ per leg	128786.34	1.29	\$ 664,537.51
Landscape	6.1	Trees	51	No. m2 m2	363.01	1.29	\$ 23,882.43
	6.2	Landscaping	7702	m2	25.16	1.29	\$ 249,976.43
	6.3	Topsoil Seeding	7702	m2	8.44	1.29	\$ 83,855.37
Street Lighting	7.1	Street Lighting	12	Item/ per leg	55617.74	1.29	\$ 860,962.62
Miscellaneous	8.1	Linemarking	19099	m2 of pavement	4.09	1.29	\$ 100,768.30
	8.2	Regulatory Signage	32	Item	380.39	1.29	\$ 15,702.50
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	24	Item	319.78	1.29	\$ 9,900.39
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	1736	m3	116.53	1.29	\$ 260,963.96
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 229,191.01
	10.2	VicRoads Fees	1	%	1	1	\$ 70,520.31
	10.3	Traffic Management	1	%	5	1	\$ 352,601.55
	10.4	Environmental Management	1	%	0.5	1	\$ 35,260.15
	10.5	Survey/Design	1	%	5	1	\$ 352,601.55
	10.6	Supervision and Project Management	1	%	9	1	\$ 634,682.79
	10.7	Site Establishment	1	%	2.5	1	\$ 176,300.77
	10.8	Contingency	1	%	15	1	\$ 1,057,804.64
Total		Excluding Delivery					\$ 7,052,030.95
		Including Delivery					\$ 9,960,993.72

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

IN-06 - Mount Cottrell Road and Tarletons Road
Intersection - Primary - Primary Intersection (Benchmark Item 5)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	37007	m2	4.96	1.29	\$ 236,787.43
	1.2	Soil stabilisation - gypsum treatment	2126	m2	4.65	1.29	\$ 12,755.54
	1.3	Earthworks	12731	m3	40.52	1.29	\$ 665,436.60
	1.4	Erosion protection for 1:4 batters	3380	m2	4.29	1.29	\$ 18,703.87
Road Pavement	2.1	Primary Arterial Pavement	15743	m2	186.26	1.29	\$ 3,782,594.16
	2.2	Collector Arterial Pavement	0	m2	112.44	1.29	\$ -
	2.3	Subgrade Preparation	3149	m2	16.16	1.29	\$ 65,635.91
	2.4	Lime stabilisation, 0.5m past Bok	15743	m2	54.22	1.29	\$ 1,101,107.35
Concrete Works	3.1	Kerb and Channel	3380	m	60.9	1.29	\$ 265,516.50
	3.2	Traffic Island	831	m2	84.07	1.29	\$ 90,122.46
	3.3	SUP/footpath/ Cycle Path	6541	m2	91.94	1.29	\$ 775,837.92
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	940	m	282.96	1.29	\$ 343,117.30
	4.3	Drainage Pipe 450mm CR Bfilled	470	m	334.33	1.29	\$ 202,704.28
	4.4	Drainage Pipe 600mm CR Bfilled	470	m	550	1.29	\$ 333,465.00
	4.5	Drainage - Pits	43	No.	2806.1	1.29	\$ 155,654.37
	4.6	Drainage - Subsoil Drainage	3380	m	43.4	1.29	\$ 189,218.66
Traffic	5.1	Traffic Signals	4	Item/ per leg	128786.34	1.29	\$ 664,537.51
Landscape	6.1	Trees	80	No. m2 m2	363.01	1.29	\$ 37,462.63
	6.2	Landscaping	13892	m2	25.16	1.29	\$ 450,885.90
	6.3	Topsoil Seeding	13892	m2	8.44	1.29	\$ 151,251.07
Street Lighting	7.1	Street Lighting	18	Item/ per leg	55617.74	1.29	\$ 1,291,443.92
Miscellaneous	8.1	Linemarking	28826	m2 of pavement	4.09	1.29	\$ 152,087.42
	8.2	Regulatory Signage	38	Item	380.39	1.29	\$ 18,646.72
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	24	Item	319.78	1.29	\$ 9,900.39
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	3149	m3	116.53	1.29	\$ 473,301.51
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 377,060.58
	10.2	VicRoads Fees	1	%	1	1	\$ 116,018.64
	10.3	Traffic Management	1	%	5	1	\$ 580,093.20
	10.4	Environmental Management	1	%	0.5	1	\$ 58,009.32
	10.5	Survey/Design	1	%	5	1	\$ 580,093.20
	10.6	Supervision and Project Management	1	%	9	1	\$ 1,044,167.76
	10.7	Site Establishment	1	%	2.5	1	\$ 290,046.60
	10.8	Contingency	1	%	15	1	\$ 1,740,279.59
Total		Excluding Delivery					\$ 11,601,863.97
		Including Delivery					\$ 16,387,632.85

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

IN-07 - Tarletons Road and North-South Connector
Intersection - Secondary - Connector Intersection (Benchmark Item 9)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	20009	m2	4.96	1.29	\$ 128,027.39
	1.2	Soil stabilisation - gypsum treatment	1505	m2	4.65	1.29	\$ 9,024.98
	1.3	Earthworks	7728	m3	40.52	1.29	\$ 403,956.62
	1.4	Erosion protection for 1:4 batters	2019	m2	4.29	1.29	\$ 11,174.55
Road Pavement	2.1	Primary Arterial Pavement	8346	m2	186.26	1.29	\$ 2,005,455.17
	2.2	Collector Arterial Pavement	1581	m2	112.44	1.29	\$ 229,361.22
	2.3	Subgrade Preparation	1986	m2	16.16	1.29	\$ 41,391.64
	2.4	Lime stabilisation, 0.5m past Bok	4964	m2	54.22	1.29	\$ 347,192.91
Concrete Works	3.1	Kerb and Channel	2019	m	60.9	1.29	\$ 158,631.68
	3.2	Traffic Island	474	m2	84.07	1.29	\$ 51,355.16
	3.3	SUP/footpath/ Cycle Path	4099	m2	91.94	1.29	\$ 486,104.65
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	660	m	282.96	1.29	\$ 240,912.14
	4.3	Drainage Pipe 450mm CR Bfilled	330	m	334.33	1.29	\$ 142,324.28
	4.4	Drainage Pipe 600mm CR Bfilled	330	m	550	1.29	\$ 234,135.00
	4.5	Drainage - Pits	30	No.	2806.1	1.29	\$ 108,596.07
	4.6	Drainage - Subsoil Drainage	2048	m	43.4	1.29	\$ 114,671.45
Traffic	5.1	Traffic Signals	4	Item/ per leg	128786.34	1.29	\$ 664,537.51
Landscape	6.1	Trees	41	No. m2 m2	363.01	1.29	\$ 19,199.60
	6.2	Landscaping	5509	m2	25.16	1.29	\$ 178,814.54
	6.3	Topsoil Seeding	5509	m2	8.44	1.29	\$ 59,983.89
Street Lighting	7.1	Street Lighting	12	Item/ per leg	55617.74	1.29	\$ 860,962.62
Miscellaneous	8.1	Linemarking	18125	m2 of pavement	4.09	1.29	\$ 95,629.15
	8.2	Regulatory Signage	32	Item	380.39	1.29	\$ 15,702.50
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	24	Item	319.78	1.29	\$ 9,900.39
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	1986	m3	116.53	1.29	\$ 298,475.76
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 228,449.34
	10.2	VicRoads Fees	1	%	1	1	\$ 70,292.10
	10.3	Traffic Management	1	%	5	1	\$ 351,460.52
	10.4	Environmental Management	1	%	0.5	1	\$ 35,146.05
	10.5	Survey/Design	1	%	5	1	\$ 351,460.52
	10.6	Supervision and Project Management	1	%	9	1	\$ 632,628.94
	10.7	Site Establishment	1	%	2.5	1	\$ 175,730.26
	10.8	Contingency	1	%	15	1	\$ 1,054,381.56
Total		Excluding Delivery					\$ 7,029,210.41
		Including Delivery					\$ 9,928,759.70

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

IN-08 - Mount Cottrell Road and East-West Connector
Intersection - Primary - Connector Intersection (Benchmark Item 7)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	22725	m2	4.96	1.29	\$ 145,405.70
	1.2	Soil stabilisation - gypsum treatment	1342	m2	4.65	1.29	\$ 8,047.13
	1.3	Earthworks	7404	m3	40.52	1.29	\$ 387,030.20
	1.4	Erosion protection for 1:4 batters	2056	m2	4.29	1.29	\$ 11,375.49
Road Pavement	2.1	Primary Arterial Pavement	7673	m2	186.26	1.29	\$ 1,843,730.72
	2.2	Collector Arterial Pavement	1637	m2	112.44	1.29	\$ 237,396.61
	2.3	Subgrade Preparation	1862	m2	16.16	1.29	\$ 38,816.36
	2.4	Lime stabilisation, 0.5m past Bok	9310	m2	54.22	1.29	\$ 651,182.85
Concrete Works	3.1	Kerb and Channel	2056	m	60.9	1.29	\$ 161,484.29
	3.2	Traffic Island	224	m2	84.07	1.29	\$ 24,289.98
	3.3	SUP/footpath/ Cycle Path	4987	m2	91.94	1.29	\$ 591,485.81
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	650	m	282.96	1.29	\$ 237,261.96
	4.3	Drainage Pipe 450mm CR Bfilled	330	m	334.33	1.29	\$ 142,324.28
	4.4	Drainage Pipe 600mm CR Bfilled	330	m	550	1.29	\$ 234,135.00
	4.5	Drainage - Pits	30	No.	2806.1	1.29	\$ 108,596.07
	4.6	Drainage - Subsoil Drainage	2085	m	43.4	1.29	\$ 116,704.35
Traffic	5.1	Traffic Signals	4	Item/ per leg	128786.34	1.29	\$ 664,537.51
Landscape	6.1	Trees	51	No. m2 m2	363.01	1.29	\$ 23,882.43
	6.2	Landscaping	8204	m2	25.16	1.29	\$ 266,276.77
	6.3	Topsoil Seeding	8204	m2	8.44	1.29	\$ 89,323.37
Street Lighting	7.1	Street Lighting	12	Item/ per leg	55617.74	1.29	\$ 860,962.62
Miscellaneous	8.1	Linemarking	19284	m2 of pavement	4.09	1.29	\$ 101,746.07
	8.2	Regulatory Signage	32	Item	380.39	1.29	\$ 15,702.50
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	24	Item	319.78	1.29	\$ 9,900.39
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	1862	m3	116.53	1.29	\$ 279,905.34
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 239,368.78
	10.2	VicRoads Fees	1	%	1	1	\$ 73,651.93
	10.3	Traffic Management	1	%	5	1	\$ 368,259.67
	10.4	Environmental Management	1	%	0.5	1	\$ 36,825.97
	10.5	Survey/Design	1	%	5	1	\$ 368,259.67
	10.6	Supervision and Project Management	1	%	9	1	\$ 662,867.40
	10.7	Site Establishment	1	%	2.5	1	\$ 184,129.83
	10.8	Contingency	1	%	15	1	\$ 1,104,779.00
Total		Excluding Delivery				1	\$ 7,365,193.33
		Including Delivery					\$ 10,403,335.58

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

IN-09 - Taylors Road / Mount Cottrell Road / Connector

Rev 2 - 7 Feb 2025

Intersection - Primary - Primary - Connector Intersection (Modified Benchmark Item 6)

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	26519	m2	4.96	1.29	\$ 169,678.86
	1.2	Soil stabilisation - gypsum treatment	1524	m2	4.65	1.29	\$ 9,142.44
	1.3	Earthworks	9147	m3	40.52	1.29	\$ 478,111.65
	1.4	Erosion protection for 1:4 batters	2311	m2	4.29	1.29	\$ 12,790.95
Road Pavement	2.1	Primary Arterial Pavement	10476	m2	186.26	1.29	\$ 2,517,171.80
	2.2	Collector Arterial Pavement	802	m2	112.44	1.29	\$ 116,263.12
	2.3	Subgrade Preparation	2256	m2	16.16	1.29	\$ 47,020.08
	2.4	Lime stabilisation, 0.5m past Bok	11278	m2	54.22	1.29	\$ 788,808.40
Concrete Works	3.1	Kerb and Channel	2311	m	60.9	1.29	\$ 181,577.87
	3.2	Traffic Island	593	m2	84.07	1.29	\$ 64,272.91
	3.3	SUP/footpath/ Cycle Path	5545	m2	91.94	1.29	\$ 657,640.85
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	690	m	282.96	1.29	\$ 251,862.70
	4.3	Drainage Pipe 450mm CR Bfilled	350	m	334.33	1.29	\$ 150,950.00
	4.4	Drainage Pipe 600mm CR Bfilled	350	m	550	1.29	\$ 248,325.00
	4.5	Drainage - Pits	32	No.	2806.1	1.29	\$ 115,835.81
	4.6	Drainage - Subsoil Drainage	2328	m	43.4	1.29	\$ 130,324.09
Traffic	5.1	Traffic Signals	4	Item/ per leg	128786.34	1.29	\$ 664,537.51
Landscape	6.1	Trees	62	No. m2 m2	363.01	1.29	\$ 29,033.54
	6.2	Landscaping	9104	m2	25.16	1.29	\$ 295,471.59
	6.3	Topsoil Seeding	9104	m2	8.44	1.29	\$ 99,116.86
Street Lighting	7.1	Street Lighting	13	Item/ per leg	55617.74	1.29	\$ 932,709.50
Miscellaneous	8.1	Linemarking	22368	m2 of pavement	4.09	1.29	\$ 118,013.52
	8.2	Regulatory Signage	34	Item	380.39	1.29	\$ 16,683.91
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	24	Item	319.78	1.29	\$ 9,900.39
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	2256	m3	116.53	1.29	\$ 339,062.50
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 278,134.85
	10.2	VicRoads Fees	1	%	1	1	\$ 85,579.95
	10.3	Traffic Management	1	%	5	1	\$ 427,899.77
	10.4	Environmental Management	1	%	0.5	1	\$ 42,789.98
	10.5	Survey/Design	1	%	5	1	\$ 427,899.77
	10.6	Supervision and Project Management	1	%	9	1	\$ 770,219.58
	10.7	Site Establishment	1	%	2.5	1	\$ 213,949.88
	10.8	Contingency	1	%	15	1	\$ 1,283,699.31
Total		Excluding Delivery					\$ 8,557,995.38
		Including Delivery					\$ 12,088,168.48

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

IN-10 - Taylors Road and East-West Connector
Intersection - Primary - Connector Intersection (Benchmark Item 7)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	19042	m2	4.96	1.29	\$ 121,841.36
	1.2	Soil stabilisation - gypsum treatment	1023	m2	4.65	1.29	\$ 6,137.35
	1.3	Earthworks	7113	m3	40.52	1.29	\$ 371,785.28
	1.4	Erosion protection for 1:4 batters	1806	m2	4.29	1.29	\$ 9,996.95
Road Pavement	2.1	Primary Arterial Pavement	7167	m2	186.26	1.29	\$ 1,722,042.79
	2.2	Collector Arterial Pavement	1644	m2	112.44	1.29	\$ 238,464.16
	2.3	Subgrade Preparation	1762	m2	16.16	1.29	\$ 36,735.50
	2.4	Lime stabilisation, 0.5m past Bok	8811	m2	54.22	1.29	\$ 616,274.47
Concrete Works	3.1	Kerb and Channel	1806	m	60.9	1.29	\$ 141,914.76
	3.2	Traffic Island	547	m2	84.07	1.29	\$ 59,343.61
	3.3	SUP/footpath/ Cycle Path	4997	m2	91.94	1.29	\$ 592,599.68
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	600	m	282.96	1.29	\$ 219,011.04
	4.3	Drainage Pipe 450mm CR Bfilled	300	m	334.33	1.29	\$ 129,385.71
	4.4	Drainage Pipe 600mm CR Bfilled	300	m	550	1.29	\$ 212,850.00
	4.5	Drainage - Pits	28	No.	2806.1	1.29	\$ 101,356.33
	4.6	Drainage - Subsoil Drainage	1835	m	43.4	1.29	\$ 102,758.25
Traffic	5.1	Traffic Signals	4	Item/ per leg	128786.34	1.29	\$ 664,537.51
Landscape	6.1	Trees	51	No. m2 m2	363.01	1.29	\$ 23,882.43
	6.2	Landscaping	4688	m2	25.16	1.29	\$ 152,148.03
	6.3	Topsoil Seeding	4688	m2	8.44	1.29	\$ 51,038.53
Street Lighting	7.1	Street Lighting	11	Item/ per leg	55617.74	1.29	\$ 789,215.73
Miscellaneous	8.1	Linemarking	18804	m2 of pavement	4.09	1.29	\$ 99,211.92
	8.2	Regulatory Signage	32	Item	380.39	1.29	\$ 15,702.50
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	24	Item	319.78	1.29	\$ 9,900.39
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	1762	m3	116.53	1.29	\$ 264,900.27
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 223,168.53
	10.2	VicRoads Fees	1	%	1	1	\$ 68,667.24
	10.3	Traffic Management	1	%	5	1	\$ 343,336.20
	10.4	Environmental Management	1	%	0.5	1	\$ 34,333.62
	10.5	Survey/Design	1	%	5	1	\$ 343,336.20
	10.6	Supervision and Project Management	1	%	9	1	\$ 618,005.17
	10.7	Site Establishment	1	%	2.5	1	\$ 171,668.10
	10.8	Contingency	1	%	15	1	\$ 1,030,008.61
Total		Excluding Delivery					\$ 6,866,724.09
		Including Delivery					\$ 9,699,247.78

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

IN-11 - Taylors Road and East-West Connector
Intersection - Primary - Connector Intersection (Benchmark Item 7)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	26552	m2	4.96	1.29	\$ 169,889.60
	1.2	Earthworks	7065	m3	40.52	1.29	\$ 369,314.69
	1.3	Erosion protection for 1:4 batters	1834	m2	4.29	1.29	\$ 10,148.40
Road Pavement	2.1	Primary Arterial Pavement	7145	m2	186.26	1.29	\$ 1,716,680.95
	2.2	Collector Arterial Pavement	1652	m2	112.44	1.29	\$ 239,640.83
	2.3	Subgrade Preparation	1759	m2	16.16	1.29	\$ 36,676.29
	2.4	Lime stabilisation, 0.5m past BoK	4398	m2	54.22	1.29	\$ 307,640.52
Concrete Works	3.1	Kerb and Channel	1834	m	60.9	1.29	\$ 144,064.77
	3.2	Traffic Island	654	m2	84.07	1.29	\$ 70,927.83
	3.3	SUP/footpath/ Cycle Path	4711	m2	91.94	1.29	\$ 558,790.20
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	610	m	282.96	1.29	\$ 222,661.22
	4.3	Drainage Pipe 450mm CR Bfilled	310	m	334.33	1.29	\$ 133,698.57
	4.4	Drainage Pipe 600mm CR Bfilled	310	m	550	1.29	\$ 219,945.00
	4.5	Drainage - Pits	28	No.	2806.1	1.29	\$ 101,356.33
	4.6	Drainage - Subsoil Drainage	1863	m	43.4	1.29	\$ 104,290.44
Traffic	5.1	Traffic Signals	4	Item/ per leg	128786.34	1.29	\$ 664,537.51
Landscape	6.1	Trees	51	No. m2	363.01	1.29	\$ 23,882.43
	6.2	Landscaping	12390	m2	25.16	1.29	\$ 402,122.92
	6.3	Topsoil Seeding	12390	m2	8.44	1.29	\$ 134,893.38
Street Lighting	7.1	Street Lighting	11	Item/ per leg	55617.74	1.29	\$ 789,215.73
Miscellaneous	8.1	Linemarking	18220	m2 of pavement	4.09	1.29	\$ 96,128.91
	8.2	Regulatory Signage	32	Item	380.39	1.29	\$ 15,702.50
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	24	Item	319.78	1.29	\$ 9,900.39
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	1759	m3	116.53	1.29	\$ 264,473.26
	9.3	Redundant pavement demolition	91	m3	206	1.29	\$ 24,285.98
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 225,698.14
	10.2	VicRoads Fees	1	%	1	1	\$ 69,445.58
	10.3	Traffic Management	1	%	5	1	\$ 347,227.91
	10.4	Environmental Management	1	%	0.5	1	\$ 34,722.79
	10.5	Survey/Design	1	%	5	1	\$ 347,227.91
	10.6	Supervision and Project Management	1	%	9	1	\$ 625,010.24
	10.7	Site Establishment	1	%	2.5	1	\$ 173,613.95
	10.8	Contingency	1	%	15	1	\$ 1,041,683.73
Total		Excluding Delivery					\$ 6,944,558.19
		Including Delivery					\$ 9,809,188.44

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

IN-12 - Paynes Road and East-West Connector
Intersection - Connector - Connector Intersection (Benchmark Item 10)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	8760	m2	4.96	1.29	\$ 56,052.40
	1.2	Earthworks	2589	m3	40.52	1.29	\$ 135,325.19
	1.3	Erosion protection for 1:4 batters	1016	m2	4.29	1.29	\$ 5,624.78
Road Pavement	2.1	Primary Arterial Pavement		m2	186.26	1.29	\$ -
	2.2	Collector Arterial Pavement	3678	m2	112.44	1.29	\$ 533,513.18
	2.3	Subgrade Preparation	736	m2	16.16	1.29	\$ 15,335.42
	2.4	Lime stabilisation, 0.5m past BoK	1839	m2	54.22	1.29	\$ 128,633.43
Concrete Works	3.1	Kerb and Channel	1016	m	60.9	1.29	\$ 79,848.32
	3.2	Traffic Island	185	m2	84.07	1.29	\$ 20,030.88
	3.3	SUP/footpath/ Cycle Path	2921	m2	91.94	1.29	\$ 346,409.30
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	330	m	282.96	1.29	\$ 120,456.07
	4.3	Drainage Pipe 450mm CR Bfilled	170	m	334.33	1.29	\$ 73,318.57
	4.4	Drainage Pipe 600mm CR Bfilled	170	m	550	1.29	\$ 120,615.00
	4.5	Drainage - Pits	15	No.	2806.1	1.29	\$ 54,298.04
	4.6	Drainage - Subsoil Drainage	1016	m	43.4	1.29	\$ 56,903.40
Traffic	5.1	Traffic Signals	4	Item/ per leg	128786.34	1.29	\$ 664,537.51
Landscape	6.1	Trees	38	No. m2	363.01	1.29	\$ 17,794.75
	6.2	Landscaping	1977	m2	25.16	1.29	\$ 64,157.40
	6.3	Topsoil Seeding	1977	m2	8.44	1.29	\$ 21,521.80
Street Lighting	7.1	Street Lighting	6	Item/ per leg	55617.74	1.29	\$ 430,481.31
Miscellaneous	8.1	Linemarking	9520	m2 of pavement	4.09	1.29	\$ 50,226.92
	8.2	Regulatory Signage	26	Item	380.39	1.29	\$ 12,758.28
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	24	Item	319.78	1.29	\$ 9,900.39
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	736	m3	116.53	1.29	\$ 110,583.94
	9.3	Redundant pavement demolition	325	m3	206	1.29	\$ 86,357.53
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 108,172.13
	10.2	VicRoads Fees	1	%	1	1	\$ 33,283.73
	10.3	Traffic Management	1	%	5	1	\$ 166,418.67
	10.4	Environmental Management	1	%	0.5	1	\$ 16,641.87
	10.5	Survey/Design	1	%	5	1	\$ 166,418.67
	10.6	Supervision and Project Management	1	%	9	1	\$ 299,553.60
	10.7	Site Establishment	1	%	2.5	1	\$ 83,209.33
	10.8	Contingency	1	%	15	1	\$ 499,256.00
Total		Excluding Delivery					\$ 3,328,373.36
		Including Delivery					\$ 4,701,327.37

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

IN-13 - Paynes Road and Taylors Road
Intersection - Primary - Secondary Intersection (Benchmark Item 6)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	34591	m2	4.96	1.29	\$ 221,326.59
	1.2	Earthworks	12153	m3	40.52	1.29	\$ 635,231.13
	1.3	Erosion protection for 1:4 batters	3981	m2	4.29	1.29	\$ 22,033.04
Road Pavement	2.1	Primary Arterial Pavement	13528	m2	186.26	1.29	\$ 3,250,329.68
	2.2	Collector Arterial Pavement	2228	m2	112.44	1.29	\$ 323,194.66
	2.3	Subgrade Preparation	3151	m2	16.16	1.29	\$ 65,689.99
	2.4	Lime stabilisation, 0.5m past BoK	7878	m2	54.22	1.29	\$ 551,007.28
Concrete Works	3.1	Kerb and Channel	3981	m	60.9	1.29	\$ 312,776.73
	3.2	Traffic Island	831	m2	84.07	1.29	\$ 90,121.01
	3.3	SUP/footpath/ Cycle Path	5611	m2	91.94	1.29	\$ 665,501.40
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	940	m	282.96	1.29	\$ 343,117.30
	4.3	Drainage Pipe 450mm CR Bfilled	470	m	334.33	1.29	\$ 202,704.28
	4.4	Drainage Pipe 600mm CR Bfilled	470	m	550	1.29	\$ 333,465.00
	4.5	Drainage - Pits	43	No.	2806.1	1.29	\$ 155,654.37
	4.6	Drainage - Subsoil Drainage	4006	m	43.4	1.29	\$ 224,270.02
Traffic	5.1	Traffic Signals	4	Item/ per leg	128786.34	1.29	\$ 664,537.51
Landscape	6.1	Trees	62	No. m2	363.01	1.29	\$ 29,033.54
	6.2	Landscaping	12393	m2	25.16	1.29	\$ 402,233.36
	6.3	Topsoil Seeding	12393	m2	8.44	1.29	\$ 134,930.43
Street Lighting	7.1	Street Lighting	18	Item/ per leg	55617.74	1.29	\$ 1,291,443.92
Miscellaneous	8.1	Linemarking	26978	m2 of pavement	4.09	1.29	\$ 142,339.10
	8.2	Regulatory Signage	38	Item	380.39	1.29	\$ 18,646.72
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	24	Item	319.78	1.29	\$ 9,900.39
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	3151	m3	116.53	1.29	\$ 473,691.47
	9.3	Redundant pavement demolition	257	m3	206	1.29	\$ 68,401.48
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 349,221.27
	10.2	VicRoads Fees	1	%	1	1	\$ 107,452.70
	10.3	Traffic Management	1	%	5	1	\$ 537,263.50
	10.4	Environmental Management	1	%	0.5	1	\$ 53,726.35
	10.5	Survey/Design	1	%	5	1	\$ 537,263.50
	10.6	Supervision and Project Management	1	%	9	1	\$ 967,074.29
	10.7	Site Establishment	1	%	2.5	1	\$ 268,631.75
	10.8	Contingency	1	%	15	1	\$ 1,611,790.49
Total		Excluding Delivery					\$ 10,745,269.92
		Including Delivery					\$ 15,177,693.76

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

Refer to IN-14A for expected contribution from delivery agent

IN-14 - Leakes Road and Beattys Road Intersection - Secondary - Connector Intersection (Benchmark Item 9)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	28560	m2	4.96	1.29	\$ 182,736.61
	1.2	Earthworks	7977	m3	40.52	1.29	\$ 416,942.92
	1.3	Erosion protection for 1:4 batters	2208	m2	4.29	1.29	\$ 12,220.95
Road Pavement	2.1	Primary Arterial Pavement	8132	m2	186.26	1.29	\$ 1,953,964.56
	2.2	Collector Arterial Pavement	2038	m2	112.44	1.29	\$ 295,625.21
	2.3	Subgrade Preparation	2034	m2	16.16	1.29	\$ 42,402.88
	2.4	Lime stabilisation, 0.5m past BoK	10170	m2	54.22	1.29	\$ 711,350.32
Concrete Works	3.1	Kerb and Channel	2208	m	60.9	1.29	\$ 173,486.22
	3.2	Traffic Island	349	m2	84.07	1.29	\$ 37,878.64
	3.3	SUP/footpath/ Cycle Path	5009	m2	91.94	1.29	\$ 594,097.03
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	720	m	282.96	1.29	\$ 262,813.25
	4.3	Drainage Pipe 450mm CR Bfilled	360	m	334.33	1.29	\$ 155,262.85
	4.4	Drainage Pipe 600mm CR Bfilled	360	m	550	1.29	\$ 255,420.00
	4.5	Drainage - Pits	33	No.	2806.1	1.29	\$ 119,455.68
	4.6	Drainage - Subsoil Drainage	2369	m	43.4	1.29	\$ 132,653.21
Traffic	5.1	Traffic Signals	4	Item/ per leg	128786.34	1.29	\$ 664,537.51
Landscape	6.1	Trees	41	No. m2	363.01	1.29	\$ 19,199.60
	6.2	Landscaping	13031	m2	25.16	1.29	\$ 422,939.70
	6.3	Topsoil Seeding	13031	m2	8.44	1.29	\$ 141,876.43
Street Lighting	7.1	Street Lighting	13	Item/ per leg	55617.74	1.29	\$ 932,709.50
Miscellaneous	8.1	Linemarking	20189	m2 of pavement	4.09	1.29	\$ 106,517.03
	8.2	Regulatory Signage	34	Item	380.39	1.29	\$ 16,683.91
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	24	Item	319.78	1.29	\$ 9,900.39
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	23	m3	206	1.29	\$ 6,026.98
	9.2	Rock allowance	2034	m3	116.53	1.29	\$ 305,767.81
	9.3	Redundant pavement demolition	62	m3	206	1.29	\$ 16,449.31
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 263,334.76
	10.2	VicRoads Fees	1	%	1	1	\$ 81,026.08
	10.3	Traffic Management	1	%	5	1	\$ 405,130.40
	10.4	Environmental Management	1	%	0.5	1	\$ 40,513.04
	10.5	Survey/Design	1	%	5	1	\$ 405,130.40
	10.6	Supervision and Project Management	1	%	9	1	\$ 729,234.72
	10.7	Site Establishment	1	%	2.5	1	\$ 202,565.20
	10.8	Contingency	1	%	15	1	\$ 1,215,391.21
Total		Excluding Delivery				1	\$ 8,102,608.05
		Including Delivery					\$ 11,444,933.88

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

IN-15 - Paynes Road and East Connector

Rev 2 - 7 Feb 2025

Intersection - Secondary - Connector T-Signalised Intersection (Benchmark Item 15)

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	11695	m2	4.96	1.29	\$ 74,831.20
	1.2	Earthworks	4790	m3	40.52	1.29	\$ 250,367.77
	1.3	Erosion protection for 1:4 batters	1109	m2	4.29	1.29	\$ 6,138.76
Road Pavement	2.1	Primary Arterial Pavement	5465	m2	186.26	1.29	\$ 1,313,179.07
	2.2	Collector Arterial Pavement	775	m2	112.44	1.29	\$ 112,445.96
	2.3	Subgrade Preparation	1248	m2	16.16	1.29	\$ 26,018.57
	2.4	Lime stabilisation, 0.5m past BoK	6241	m2	54.22	1.29	\$ 436,487.28
Concrete Works	3.1	Kerb and Channel	1109	m	60.9	1.29	\$ 87,144.70
	3.2	Traffic Island	141	m2	84.07	1.29	\$ 15,309.03
	3.3	SUP/footpath/ Cycle Path	2196	m2	91.94	1.29	\$ 260,417.31
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	390	m	282.96	1.29	\$ 142,357.18
	4.3	Drainage Pipe 450mm CR Bfilled	200	m	334.33	1.29	\$ 86,257.14
	4.4	Drainage Pipe 600mm CR Bfilled	200	m	550	1.29	\$ 141,900.00
	4.5	Drainage - Pits	18	No.	2806.1	1.29	\$ 65,157.64
	4.6	Drainage - Subsoil Drainage	1124	m	43.4	1.29	\$ 62,914.92
Traffic	5.1	Traffic Signals	3	Item/ per leg	128786.34	1.29	\$ 498,403.14
Landscape	6.1	Trees	41	No. m2	363.01	1.29	\$ 19,199.60
	6.2	Landscaping	3118	m2	25.16	1.29	\$ 101,195.17
	6.3	Topsoil Seeding	3118	m2	8.44	1.29	\$ 33,946.23
Street Lighting	7.1	Street Lighting	8	Item/ per leg	55617.74	1.29	\$ 573,975.08
Miscellaneous	8.1	Linemarking	10632	m2 of pavement	4.09	1.29	\$ 56,095.33
	8.2	Regulatory Signage	23	Item	380.39	1.29	\$ 11,286.17
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	10	Item	319.78	1.29	\$ 4,125.16
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	1248	m3	116.53	1.29	\$ 187,620.30
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 152,115.02
	10.2	VicRoads Fees	1	%	1	1	\$ 46,804.62
	10.3	Traffic Management	1	%	5	1	\$ 234,023.11
	10.4	Environmental Management	1	%	0.5	1	\$ 23,402.31
	10.5	Survey/Design	1	%	5	1	\$ 234,023.11
	10.6	Supervision and Project Management	1	%	9	1	\$ 421,241.60
	10.7	Site Establishment	1	%	2.5	1	\$ 117,011.56
	10.8	Contingency	1	%	15	1	\$ 702,069.34
Total		Excluding Delivery					\$ 4,680,462.25
		Including Delivery					\$ 6,611,152.93

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

IN-16 - Taylors Road and South Connector

Rev 2 - 7 Feb 2025

Intersection - Primary - Connector T-Signalised Intersection (Benchmark Item 15)

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	17419	m2	4.96	1.29	\$ 111,454.38
	1.2	Earthworks	5953	m3	40.52	1.29	\$ 311,148.34
	1.3	Erosion protection for 1:4 batters	1737	m2	4.29	1.29	\$ 9,614.62
Road Pavement	2.1	Primary Arterial Pavement	6486	m2	186.26	1.29	\$ 1,558,332.18
	2.2	Collector Arterial Pavement	807	m2	112.44	1.29	\$ 117,091.95
	2.3	Subgrade Preparation	1459	m2	16.16	1.29	\$ 30,406.03
	2.4	Lime stabilisation, 0.5m past BoK	3646	m2	54.22	1.29	\$ 255,045.67
Concrete Works	3.1	Kerb and Channel	1737	m	60.9	1.29	\$ 136,487.24
	3.2	Traffic Island	62	m2	84.07	1.29	\$ 6,723.92
	3.3	SUP/footpath/ Cycle Path	4356	m2	91.94	1.29	\$ 516,588.62
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	560	m	282.96	1.29	\$ 204,410.30
	4.3	Drainage Pipe 450mm CR Bfilled	280	m	334.33	1.29	\$ 120,760.00
	4.4	Drainage Pipe 600mm CR Bfilled	280	m	550	1.29	\$ 198,660.00
	4.5	Drainage - Pits	26	No.	2806.1	1.29	\$ 94,116.59
	4.6	Drainage - Subsoil Drainage	1752	m	43.4	1.29	\$ 98,078.56
Traffic	5.1	Traffic Signals	3	Item/ per leg	128786.34	1.29	\$ 498,403.14
Landscape	6.1	Trees	41	No. m2	363.01	1.29	\$ 19,199.60
	6.2	Landscaping	5709	m2	25.16	1.29	\$ 185,280.66
	6.3	Topsoil Seeding	5709	m2	8.44	1.29	\$ 62,152.97
Street Lighting	7.1	Street Lighting	10	Item/ per leg	55617.74	1.29	\$ 717,468.85
Miscellaneous	8.1	Linemarking	16004	m2 of pavement	4.09	1.29	\$ 84,439.37
	8.2	Regulatory Signage	27	Item	380.39	1.29	\$ 13,248.98
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	10	Item	319.78	1.29	\$ 4,125.16
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	1459	m3	116.53	1.29	\$ 219,258.37
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 184,801.01
	10.2	VicRoads Fees	1	%	1	1	\$ 56,861.85
	10.3	Traffic Management	1	%	5	1	\$ 284,309.25
	10.4	Environmental Management	1	%	0.5	1	\$ 28,430.93
	10.5	Survey/Design	1	%	5	1	\$ 284,309.25
	10.6	Supervision and Project Management	1	%	9	1	\$ 511,756.65
	10.7	Site Establishment	1	%	2.5	1	\$ 142,154.63
	10.8	Contingency	1	%	15	1	\$ 852,927.76
Total		Excluding Delivery					\$ 5,686,185.05
		Including Delivery					\$ 8,031,736.39

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

IN-17 - Taylors Road and Leakes Road
Intersection - Primary - Secondary Intersection (Modified Benchmark Item 6)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	11532	m2	4.96	1.29	\$ 73,784.69
	1.2	Earthworks	3794	m3	40.52	1.29	\$ 198,289.88
	1.3	Erosion protection for 1:4 batters	1292	m2	4.29	1.29	\$ 7,151.19
Road Pavement	2.1	Primary Arterial Pavement	4483	m2	186.26	1.29	\$ 1,077,273.99
	2.2	Collector Arterial Pavement		m2	112.44	1.29	\$ -
	2.3	Subgrade Preparation	897	m2	16.16	1.29	\$ 18,692.95
	2.4	Lime stabilisation, 0.5m past BoK	2242	m2	54.22	1.29	\$ 156,796.40
Concrete Works	3.1	Kerb and Channel	1292	m	60.9	1.29	\$ 101,516.96
	3.2	Traffic Island	231	m2	84.07	1.29	\$ 25,080.43
	3.3	SUP/footpath/ Cycle Path	2708	m2	91.94	1.29	\$ 321,151.48
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	220	m	282.96	1.29	\$ 80,304.05
	4.3	Drainage Pipe 450mm CR Bfilled	110	m	334.33	1.29	\$ 47,441.43
	4.4	Drainage Pipe 600mm CR Bfilled	110	m	550	1.29	\$ 78,045.00
	4.5	Drainage - Pits	10	No.	2806.1	1.29	\$ 36,198.69
	4.6	Drainage - Subsoil Drainage	1567	m	43.4	1.29	\$ 87,741.57
Traffic	5.1	Traffic Signals	1	Item/ per leg	128786.34	1.29	\$ 166,134.38
Landscape	6.1	Trees	62	No. m2	363.01	1.29	\$ 29,033.54
	6.2	Landscaping	4109	m2	25.16	1.29	\$ 133,369.40
	6.3	Topsoil Seeding	4109	m2	8.44	1.29	\$ 44,739.18
Street Lighting	7.1	Street Lighting	4	Item/ per leg	55617.74	1.29	\$ 286,987.54
Miscellaneous	8.1	Linemarking	9899	m2 of pavement	4.09	1.29	\$ 52,228.57
	8.2	Regulatory Signage	9	Item	380.39	1.29	\$ 4,416.33
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	10	Item	319.78	1.29	\$ 4,125.16
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	176	m3	206	1.29	\$ 46,900.45
	9.2	Rock allowance	897	m3	116.53	1.29	\$ 134,795.17
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 108,091.36
	10.2	VicRoads Fees	1	%	1	1	\$ 33,258.88
	10.3	Traffic Management	1	%	5	1	\$ 166,294.40
	10.4	Environmental Management	1	%	0.5	1	\$ 16,629.44
	10.5	Survey/Design	1	%	5	1	\$ 166,294.40
	10.6	Supervision and Project Management	1	%	9	1	\$ 299,329.92
	10.7	Site Establishment	1	%	2.5	1	\$ 83,147.20
	10.8	Contingency	1	%	15	1	\$ 498,883.20
Total		Excluding Delivery					\$ 3,325,887.97
		Including Delivery					\$ 4,697,816.75

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

CU-01 - Culvert - Taylors Road (RD-03)
Culvert Option 1 - Item 25

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark Cost Index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	368	m2	4.23	1.29	\$ 2,008.07
	1.2	Diversion works	1	Item	11500	1.29	\$ 14,835.00
	1.3	Waterway re-shaping	1	Item	3450	1.29	\$ 4,450.50
	1.4	Stripping of topsoil	736	m2	4.49	1.29	\$ 4,262.99
	1.5	Excavation	1490	m3	42.55	1.29	\$ 81,785.36
	1.6	Formation of batters	220	m3	17.25	1.29	\$ 4,895.55
Drainage Structure	2.1	Box culvert units 1200 x 2100 (No.)	38	No.	2754.25	1.29	\$ 135,013.34
	2.2	Link slab 1200 x 2100 (No.)	0	No.	1682.45	1.29	\$ -
	2.3	Foundation slab 1200 x 2100 (200mm)	333	m2	243.8	1.29	\$ 104,729.17
	2.4	Granular Bedding 150 mm thick crushed	368	m2	19.84	1.29	\$ 9,418.44
	2.5	Apron slab (m2)	35	m2	253.29	1.29	\$ 11,436.04
	2.6	Wing wall (m2)	19	m2	805	1.29	\$ 19,730.55
	2.7	End wall (m2)	30	m2	805	1.29	\$ 31,153.50
	2.8	Lime stabilisation, 0.5m past Bok	333	m2	54.22	1.29	\$ 23,291.29
On Structure	3.1	Structural Fill (m3)	367	m3	86.25	1.29	\$ 40,833.34
	3.2	Vehicle Barrier	34	lm	284.63	1.29	\$ 12,483.87
	3.3	Signs (Item)	1	Item	2070	1.29	\$ 2,670.30
Other	4.1	Rock allowance	67	m3	116.53	1.29	\$ 10,071.69
Delivery	5.1	Council Fees	1	%	3.25	1	\$ 12,926.16
	5.2	VicRoads Fees	1	%	1	1	\$ 3,977.28
	5.3	Traffic Management	1	%	5	1	\$ 19,886.39
	5.4	Environmental Management	1	%	0.5	1	\$ 1,988.64
	5.5	Survey/Design	1	%	5	1	\$ 19,886.39
	5.6	Supervision and Project Management	1	%	9	1	\$ 35,795.51
	5.7	Site Establishment	1	%	2.5	1	\$ 9,943.20
	5.8	Contingency	1	%	15	1	\$ 59,659.18
		Excluding Delivery					\$ 513,068.98
		Including Delivery					\$ 677,131.73

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

CU-02 - Culvert - Taylors Road (RD-03)

Rev 2 - 7 Feb 2025

Culvert Option 1 - Item 25

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark Cost Index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	495	m2	4.23	1.29	\$ 2,701.07
	1.2	Diversion works	1	Item	11500	1.29	\$ 14,835.00
	1.3	Waterway re-shaping	1	Item	3450	1.29	\$ 4,450.50
	1.4	Stripping of topsoil	990	m2	4.49	1.29	\$ 5,734.18
	1.5	Excavation	1430	m3	42.55	1.29	\$ 78,491.99
	1.6	Formation of batters	220	m3	17.25	1.29	\$ 4,895.55
Drainage Structure	2.1	Box culvert units 1200 x 2100 (No.)	19	No.	2754.25	1.29	\$ 67,506.67
	2.2	Link slab 1200 x 2100 (No.)	0	No.	1682.45	1.29	\$ -
	2.3	Foundation slab 1200 x 2100 (200mm)	469	m2	243.8	1.29	\$ 147,501.44
	2.4	Granular Bedding 150 mm thick crushed	495	m2	19.84	1.29	\$ 12,668.83
	2.5	Apron slab (m2)	26	m2	253.29	1.29	\$ 8,495.35
	2.6	Wing wall (m2)	19	m2	805	1.29	\$ 19,730.55
	2.7	End wall (m2)	20	m2	805	1.29	\$ 20,769.00
	2.8	Lime stabilisation, 0.5m past Bok	469	m2	54.22	1.29	\$ 32,803.64
On Structure	3.1	Structural Fill (m3)	516	m3	86.25	1.29	\$ 57,411.45
	3.2	Vehicle Barrier	30	lm	284.63	1.29	\$ 11,015.18
	3.3	Signs (Item)	1	Item	2070	1.29	\$ 2,670.30
Other	4.1	Rock allowance	94	m3	116.53	1.29	\$ 14,130.43
Delivery	5.1	Council Fees	1	%	3.25	1	\$ 12,743.30
	5.2	VicRoads Fees	1	%	1	1	\$ 3,921.02
	5.3	Traffic Management	1	%	5	1	\$ 19,605.08
	5.4	Environmental Management	1	%	0.5	1	\$ 1,960.51
	5.5	Survey/Design	1	%	5	1	\$ 19,605.08
	5.6	Supervision and Project Management	1	%	9	1	\$ 35,289.15
	5.7	Site Establishment	1	%	2.5	1	\$ 9,802.54
	5.8	Contingency	1	%	15	1	\$ 58,815.25
		Excluding Delivery					\$ 505,811.12
		Including Delivery					\$ 667,553.04

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

CU-03 - Culvert - Leakes Road (RD-05)

Rev 2 - 7 Feb 2025

Culvert Option 1 - Item 25

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark Cost Index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	231	m2	4.23	1.29	\$ 1,260.50
	1.2	Diversion works	1	Item	11500	1.29	\$ 14,835.00
	1.3	Waterway re-shaping	1	Item	3450	1.29	\$ 4,450.50
	1.4	Stripping of topsoil	462	m2	4.49	1.29	\$ 2,675.95
	1.5	Excavation	810	m3	42.55	1.29	\$ 44,460.50
	1.6	Formation of batters	220	m3	17.25	1.29	\$ 4,895.55
Drainage Structure	2.1	Box culvert units 1200 x 2100 (No.)	17	No.	2754.25	1.29	\$ 60,400.70
	2.2	Link slab 1200 x 2100 (No.)	0	No.	1682.45	1.29	\$ -
	2.3	Foundation slab 1200 x 2100 (200mm)	205	m2	243.8	1.29	\$ 64,472.91
	2.4	Granular Bedding 150 mm thick crushed	231	m2	19.84	1.29	\$ 5,912.12
	2.5	Apron slab (m2)	26	m2	253.29	1.29	\$ 8,495.35
	2.6	Wing wall (m2)	19	m2	805	1.29	\$ 19,730.55
	2.7	End wall (m2)	20	m2	805	1.29	\$ 20,769.00
	2.8	Lime stabilisation, 0.5m past Bok	205	m2	54.22	1.29	\$ 14,338.48
On Structure	3.1	Structural Fill (m3)	226	m3	86.25	1.29	\$ 25,145.33
	3.2	Vehicle Barrier	30	lm	284.63	1.29	\$ 11,015.18
	3.3	Signs (Item)	1	Item	2070	1.29	\$ 2,670.30
Other	4.1	Rock allowance	41	m3	116.53	1.29	\$ 6,163.27
Delivery	5.1	Council Fees	1	%	3.25	1	\$ 7,852.68
	5.2	VicRoads Fees	1	%	1	1	\$ 2,416.21
	5.3	Traffic Management	1	%	5	1	\$ 12,081.05
	5.4	Environmental Management	1	%	0.5	1	\$ 1,208.11
	5.5	Survey/Design	1	%	5	1	\$ 12,081.05
	5.6	Supervision and Project Management	1	%	9	1	\$ 21,745.90
	5.7	Site Establishment	1	%	2.5	1	\$ 6,040.53
	5.8	Contingency	1	%	15	1	\$ 36,243.16
		Excluding Delivery					\$ 311,691.18
		Including Delivery					\$ 411,359.87

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

CU-04 - Culvert - Leakes Road (RD-05)

Rev 2 - 7 Feb 2025

Culvert Option 1 - Item 25

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark Cost Index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	751	m2	4.23	1.29	\$ 4,097.98
	1.2	Diversion works	1	Item	11500	1.29	\$ 14,835.00
	1.3	Waterway re-shaping	1	Item	3450	1.29	\$ 4,450.50
	1.4	Stripping of topsoil	1502	m2	4.49	1.29	\$ 8,699.73
	1.5	Excavation	3460	m3	42.55	1.29	\$ 189,917.67
	1.6	Formation of batters	220	m3	17.25	1.29	\$ 4,895.55
Drainage Structure	2.1	Box culvert units 1200 x 2100 (No.)	102	No.	2754.25	1.29	\$ 362,404.22
	2.2	Link slab 1200 x 2100 (No.)	0	No.	1682.45	1.29	\$ -
	2.3	Foundation slab 1200 x 2100 (200mm)	683	m2	243.8	1.29	\$ 214,804.87
	2.4	Granular Bedding 150 mm thick crushed	751	m2	19.84	1.29	\$ 19,220.79
	2.5	Apron slab (m2)	68	m2	253.29	1.29	\$ 22,218.60
	2.6	Wing wall (m2)	19	m2	805	1.29	\$ 19,730.55
	2.7	End wall (m2)	66	m2	805	1.29	\$ 68,537.70
	2.8	Lime stabilisation, 0.5m past Bok	683	m2	54.22	1.29	\$ 47,771.62
On Structure	3.1	Structural Fill (m3)	752	m3	86.25	1.29	\$ 83,669.40
	3.2	Vehicle Barrier	50	lm	284.63	1.29	\$ 18,358.64
	3.3	Signs (Item)	1	Item	2070	1.29	\$ 2,670.30
Other	4.1	Rock allowance	137	m3	116.53	1.29	\$ 20,594.35
Delivery	5.1	Council Fees	1	%	3.25	1	\$ 27,886.45
	5.2	VicRoads Fees	1	%	1	1	\$ 8,580.45
	5.3	Traffic Management	1	%	5	1	\$ 42,902.23
	5.4	Environmental Management	1	%	0.5	1	\$ 4,290.22
	5.5	Survey/Design	1	%	5	1	\$ 42,902.23
	5.6	Supervision and Project Management	1	%	9	1	\$ 77,224.01
	5.7	Site Establishment	1	%	2.5	1	\$ 21,451.11
	5.8	Contingency	1	%	15	1	\$ 128,706.68
		Excluding Delivery					\$ 1,106,877.46
		Including Delivery					\$ 1,460,820.83

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

CU-05 - Culvert - Leakes Road (RD-05)

Rev 2 - 7 Feb 2025

Culvert Option 1 - Item 25

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark Cost Index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	231	m2	4.23	1.29	\$ 1,260.50
	1.2	Diversion works	1	Item	11500	1.29	\$ 14,835.00
	1.3	Waterway re-shaping	1	Item	3450	1.29	\$ 4,450.50
	1.4	Stripping of topsoil	462	m2	4.49	1.29	\$ 2,675.95
	1.5	Excavation	810	m3	42.55	1.29	\$ 44,460.50
	1.6	Formation of batters	220	m3	17.25	1.29	\$ 4,895.55
Drainage Structure	2.1	Box culvert units 1200 x 2100 (No.)	17	No.	2754.25	1.29	\$ 60,400.70
	2.2	Link slab 1200 x 2100 (No.)	0	No.	1682.45	1.29	\$ -
	2.3	Foundation slab 1200 x 2100 (200mm)	205	m2	243.8	1.29	\$ 64,472.91
	2.4	Granular Bedding 150 mm thick crushed	231	m2	19.84	1.29	\$ 5,912.12
	2.5	Apron slab (m2)	26	m2	253.29	1.29	\$ 8,495.35
	2.6	Wing wall (m2)	19	m2	805	1.29	\$ 19,730.55
	2.7	End wall (m2)	20	m2	805	1.29	\$ 20,769.00
	2.8	Lime stabilisation, 0.5m past Bok	205	m2	54.22	1.29	\$ 14,338.48
On Structure	3.1	Structural Fill (m3)	226	m3	86.25	1.29	\$ 25,145.33
	3.2	Vehicle Barrier	30	lm	284.63	1.29	\$ 11,015.18
	3.3	Signs (Item)	1	Item	2070	1.29	\$ 2,670.30
Other	4.1	Rock allowance	41	m3	116.53	1.29	\$ 6,163.27
Delivery	5.1	Council Fees	1	%	3.25	1	\$ 7,852.68
	5.2	VicRoads Fees	1	%	1	1	\$ 2,416.21
	5.3	Traffic Management	1	%	5	1	\$ 12,081.05
	5.4	Environmental Management	1	%	0.5	1	\$ 1,208.11
	5.5	Survey/Design	1	%	5	1	\$ 12,081.05
	5.6	Supervision and Project Management	1	%	9	1	\$ 21,745.90
	5.7	Site Establishment	1	%	2.5	1	\$ 6,040.53
	5.8	Contingency	1	%	15	1	\$ 36,243.16
		Excluding Delivery					\$ 311,691.18
		Including Delivery					\$ 411,359.87

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

CU-06 - Culvert - Leakes Road (RD-05)

Rev 2 - 7 Feb 2025

Culvert Option 1 - Item 25

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark Cost Index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	231	m2	4.23	1.29	\$ 1,260.50
	1.2	Diversion works	1	Item	11500	1.29	\$ 14,835.00
	1.3	Waterway re-shaping	1	Item	3450	1.29	\$ 4,450.50
	1.4	Stripping of topsoil	462	m2	4.49	1.29	\$ 2,675.95
	1.5	Excavation	810	m3	42.55	1.29	\$ 44,460.50
	1.6	Formation of batters	220	m3	17.25	1.29	\$ 4,895.55
Drainage Structure	2.1	Box culvert units 1200 x 2100 (No.)	17	No.	2754.25	1.29	\$ 60,400.70
	2.2	Link slab 1200 x 2100 (No.)	0	No.	1682.45	1.29	\$ -
	2.3	Foundation slab 1200 x 2100 (200mm)	205	m2	243.8	1.29	\$ 64,472.91
	2.4	Granular Bedding 150 mm thick crushed	231	m2	19.84	1.29	\$ 5,912.12
	2.5	Apron slab (m2)	26	m2	253.29	1.29	\$ 8,495.35
	2.6	Wing wall (m2)	19	m2	805	1.29	\$ 19,730.55
	2.7	End wall (m2)	20	m2	805	1.29	\$ 20,769.00
	2.8	Lime stabilisation, 0.5m past Bok	205	m2	54.22	1.29	\$ 14,338.48
On Structure	3.1	Structural Fill (m3)	226	m3	86.25	1.29	\$ 25,145.33
	3.2	Vehicle Barrier	30	lm	284.63	1.29	\$ 11,015.18
	3.3	Signs (Item)	1	Item	2070	1.29	\$ 2,670.30
Other	4.1	Rock allowance	41	m3	116.53	1.29	\$ 6,163.27
Delivery	5.1	Council Fees	1	%	3.25	1	\$ 7,852.68
	5.2	VicRoads Fees	1	%	1	1	\$ 2,416.21
	5.3	Traffic Management	1	%	5	1	\$ 12,081.05
	5.4	Environmental Management	1	%	0.5	1	\$ 1,208.11
	5.5	Survey/Design	1	%	5	1	\$ 12,081.05
	5.6	Supervision and Project Management	1	%	9	1	\$ 21,745.90
	5.7	Site Establishment	1	%	2.5	1	\$ 6,040.53
	5.8	Contingency	1	%	15	1	\$ 36,243.16
		Excluding Delivery					\$ 311,691.18
		Including Delivery					\$ 411,359.87

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

RD-02-01 - Tarletons Road (IN-04 to IN-05) ~ 500m
Road - Primary - 800m (Benchmark Item 1)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	23503	m2	4.96	1.29	\$ 150,381.70
	1.2	Earthworks	3994	m3	40.52	1.29	\$ 208,770.34
	1.3	Erosion protection for 1:4 batters	1265	m2	4.29	1.29	\$ 7,001.43
Road Pavement	2.1	Primary Arterial Pavement	4326	m2	186.26	1.29	\$ 1,039,322.42
	2.2	Collector Arterial Pavement	0	m2	112.44	1.29	\$ -
	2.3	Subgrade Preparation	865	m2	16.16	1.29	\$ 18,034.41
	2.4	Lime stabilisation, 0.5m past BoK	4326	m2	54.22	1.29	\$ 302,545.16
Concrete Works	3.1	Kerb and Channel	1265	m	60.9	1.29	\$ 99,390.91
	3.2	Traffic Island	47	m2	84.07	1.29	\$ 5,044.97
	3.3	SUP/footpath/ Cycle Path	4460	m2	91.94	1.29	\$ 528,935.10
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	180	m	282.96	1.29	\$ 65,703.31
	4.3	Drainage Pipe 450mm CR Bfilled	180	m	334.33	1.29	\$ 77,631.43
	4.4	Drainage Pipe 600mm CR Bfilled	350	m	448.03	1.29	\$ 202,285.55
	4.5	Drainage - Pits	13	No.	2806.1	1.29	\$ 47,058.30
	4.6	Drainage - Subsoil Drainage	1265	m	43.4	1.29	\$ 70,830.30
Traffic	5.1	Traffic Signals	0	Item/ per leg	128786.3	1.29	\$ -
Landscape	6.1	Trees	100	No. m2	363.01	1.29	\$ 46,828.29
	6.2	Landscaping	14671	m2	25.16	1.29	\$ 476,175.16
	6.3	Topsoil Seeding	14671	m2	8.44	1.29	\$ 159,734.43
Street Lighting	7.1	Street Lighting	11	m	225.67	1.29	\$ 3,202.26
Miscellaneous	8.1	Linemarking	13245	m2 of pavement	4.09	1.29	\$ 69,881.94
	8.2	Regulatory Signage	12	Item	380.39	1.29	\$ 5,888.44
	8.3	Landscape Maintenance (road)	9170	m2	2.96	1.29	\$ 35,012.88
	8.4	Tactile Pavers (Hazard only)	0	Item	319.78	1.29	\$ -
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	865	m3	116.53	1.29	\$ 130,046.43
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 121,865.42
	10.2	VicRoads Fees	1	%	1	1	\$ 37,497.05
	10.3	Traffic Management	1	%	5	1	\$ 187,485.26
	10.4	Environmental Management	1	%	0.5	1	\$ 18,748.53
	10.5	Survey/Design	1	%	5	1	\$ 187,485.26
	10.6	Supervision and Project Management	1	%	9	1	\$ 337,473.46
	10.7	Site Establishment	1	%	2.5	1	\$ 93,742.63
	10.8	Contingency	1	%	15	1	\$ 562,455.77
		Excluding Delivery				1	\$ 3,749,705.14
		Including Delivery					\$ 5,296,458.51

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

RD-02-02 - Tarletons Road (IN-05 to IN-06) ~ 300m
Road -Primary - 800m (Benchmark Item 1)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	10777	m2	4.96	1.29	\$ 68,957.19
	1.2	Earthworks	2868	m3	40.52	1.29	\$ 149,930.96
	1.3	Erosion protection for 1:4 batters	948	m2	4.29	1.29	\$ 5,246.47
Road Pavement	2.1	Primary Arterial Pavement	3318	m2	186.26	1.29	\$ 797,255.81
	2.2	Collector Arterial Pavement	0	m2	112.44	1.29	\$ -
	2.3	Subgrade Preparation	664	m2	16.16	1.29	\$ 13,834.05
	2.4	Lime stabilisation, 0.5m past BoK	3318	m2	54.22	1.29	\$ 232,079.94
Concrete Works	3.1	Kerb and Channel	948	m	60.9	1.29	\$ 74,477.89
	3.2	Traffic Island	0	m2	84.07	1.29	\$ -
	3.3	SUP/footpath/ Cycle Path	2480	m2	91.94	1.29	\$ 294,083.81
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	200	m	282.96	1.29	\$ 73,003.68
	4.3	Drainage Pipe 450mm CR Bfilled	40	m	334.33	1.29	\$ 17,251.43
	4.4	Drainage Pipe 600mm CR Bfilled	200	m	550	1.29	\$ 141,900.00
	4.5	Drainage - Pits	8	No.	2806.1	1.29	\$ 28,958.95
	4.6	Drainage - Subsoil Drainage	948	m	43.4	1.29	\$ 53,076.19
Traffic	5.1	Traffic Signals	0	Item/ per leg	128786.3	1.29	\$ -
Landscape	6.1	Trees	60	No. m2 m2	363.01	1.29	\$ 28,096.97
	6.2	Landscaping	4980	m2	25.16	1.29	\$ 161,619.60
	6.3	Topsoil Seeding	4980	m2	8.44	1.29	\$ 54,215.80
Street Lighting	7.1	Street Lighting	7	m	225.67	1.29	\$ 2,037.80
Miscellaneous	8.1	Linemarking	8277	m2 of pavemen t	4.09	1.29	\$ 43,671.53
	8.2	Regulatory Signage	8	Item	380.39	1.29	\$ 3,925.62
	8.3	Landscape Maintenance (road)	1867	m2	2.96	1.29	\$ 7,130.28
	8.4	Tactile Pavers (Hazard only)	0	Item	319.78	1.29	\$ -
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	664	m3	116.53	1.29	\$ 99,757.56
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 76,391.63
	10.2	VicRoads Fees	1	%	1	1	\$ 23,505.12
	10.3	Traffic Management	1	%	5	1	\$ 117,525.58
	10.4	Environmental Management	1	%	0.5	1	\$ 11,752.56
	10.5	Survey/Design	1	%	5	1	\$ 117,525.58
	10.6	Supervision and Project Management	1	%	9	1	\$ 211,546.04
	10.7	Site Establishment	1	%	2.5	1	\$ 58,762.79
	10.8	Contingency	1	%	15	1	\$ 352,576.73
		Excluding Delivery				1	\$ 2,350,511.55
		Including Delivery					\$ 3,320,097.57

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

RD-02-03 - Tarletons Road (IN-06 to IN-07) ~ 150m
Road - Secondary - 800m (Benchmark Item 2)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	4537	m2	4.96	1.29	\$ 29,030.38
	1.2	Earthworks	1703	m3	40.52	1.29	\$ 89,035.05
	1.3	Erosion protection for 1:4 batters	473	m2	4.29	1.29	\$ 2,616.74
Road Pavement	2.1	Primary Arterial Pavement	2095	m2	186.26	1.29	\$ 503,312.95
	2.2	Collector Arterial Pavement	0	m2	112.44	1.29	\$ -
	2.3	Subgrade Preparation	419	m2	16.16	1.29	\$ 8,733.53
	2.4	Lime stabilisation, 0.5m past BoK	2095	m2	54.22	1.29	\$ 146,513.63
Concrete Works	3.1	Kerb and Channel	473	m	60.9	1.29	\$ 37,146.68
	3.2	Traffic Island	0	m2	84.07	1.29	\$ -
	3.3	SUP/footpath/ Cycle Path	1028	m2	91.94	1.29	\$ 121,927.87
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	70	m	282.96	1.29	\$ 25,551.29
	4.3	Drainage Pipe 450mm CR Bfilled	70	m	334.33	1.29	\$ 30,190.00
	4.4	Drainage Pipe 600mm CR Bfilled	140	m	550	1.29	\$ 99,330.00
	4.5	Drainage - Pits	4	No.	2806.1	1.29	\$ 14,479.48
	4.6	Drainage - Subsoil Drainage	473	m	43.4	1.29	\$ 26,472.35
Traffic	5.1	Traffic Signals	0	Item/ per leg	128786.3	1.29	\$ -
Landscape	6.1	Trees	20	No. m2 m2	363.01	1.29	\$ 9,482.73
	6.2	Landscaping	1414	m2	25.16	1.29	\$ 45,905.04
	6.3	Topsoil Seeding	1414	m2	8.44	1.29	\$ 15,398.99
Street Lighting	7.1	Street Lighting	4	m	225.67	1.29	\$ 1,164.46
Miscellaneous	8.1	Linemarking	4151	m2 of pavement	4.09	1.29	\$ 21,900.08
	8.2	Regulatory Signage	4	Item	380.39	1.29	\$ 1,962.81
	8.3	Landscape Maintenance (road)	265	m2	2.96	1.29	\$ 1,012.61
	8.4	Tactile Pavers (Hazard only)	0	Item	319.78	1.29	\$ -
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	419	m3	116.53	1.29	\$ 62,977.62
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 42,059.69
	10.2	VicRoads Fees	1	%	1	1	\$ 12,941.44
	10.3	Traffic Management	1	%	5	1	\$ 64,707.21
	10.4	Environmental Management	1	%	0.5	1	\$ 6,470.72
	10.5	Survey/Design	1	%	5	1	\$ 64,707.21
	10.6	Supervision and Project Management	1	%	9	1	\$ 116,472.98
	10.7	Site Establishment	1	%	2.5	1	\$ 32,353.61
	10.8	Contingency	1	%	15	1	\$ 194,121.64
		Excluding Delivery				1	\$ 1,294,144.27
		Including Delivery					\$ 1,827,978.77

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

RD-02-04 - Tarletons Road (IN-06 to IN-07) ~ 600m
Road - Secondary - 800m (Modified Benchmark Item 2)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	22802	m2	4.96	1.29	\$ 145,895.52
	1.2	Soil stabilisation - gypsum treatment	2007	m2	4.65	1.29	\$ 12,036.69
	1.3	Earthworks	4629	m3	40.52	1.29	\$ 241,984.62
	1.3	Erosion protection for 1:4 batters	1273	m2	4.29	1.29	\$ 7,044.59
Road Pavement	2.1	Primary Arterial Pavement	5471	m2	186.26	1.29	\$ 1,314,649.30
	2.2	Collector Arterial Pavement	0	m2	112.44	1.29	\$ -
	2.3	Subgrade Preparation	1094	m2	16.16	1.29	\$ 22,811.91
	2.4	Lime stabilisation, 0.5m past BoK	2736	m2	54.22	1.29	\$ 191,346.20
Concrete Works	3.1	Kerb and Channel	1273	m	60.9	1.29	\$ 100,003.68
	3.2	Traffic Island	10	m2	84.07	1.29	\$ 1,052.09
	3.3	SUP/footpath/ Cycle Path	3577	m2	91.94	1.29	\$ 424,259.95
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	180	m	282.96	1.29	\$ 65,703.31
	4.3	Drainage Pipe 450mm CR Bfilled	180	m	334.33	1.29	\$ 77,631.43
	4.4	Drainage Pipe 600mm CR Bfilled	360	m	550	1.29	\$ 255,420.00
	4.5	Drainage - Pits	15	No.	2806.1	1.29	\$ 54,298.04
	4.6	Drainage - Subsoil Drainage	1273	m	43.4	1.29	\$ 71,266.99
Traffic	5.1	Traffic Signals	0	Item/ per leg	128786.34	1.29	\$ -
Landscape	6.1	Trees	81	No. m2 m2	363.01	1.29	\$ 37,930.91
	6.2	Landscaping	13744	m2	25.16	1.29	\$ 446,067.50
	6.3	Topsoil Seeding	13744	m2	8.44	1.29	\$ 149,634.72
Street Lighting	7.1	Street Lighting	13	m	225.67	1.29	\$ 3,784.49
Miscellaneous	8.1	Linemarking	12626	m2 of pavement t	4.09	1.29	\$ 66,614.66
	8.2	Regulatory Signage	14	Item	380.39	1.29	\$ 6,869.84
	8.3	Landscape Maintenance (road)	10308	m2	2.96	1.29	\$ 39,358.90
	8.4	Tactile Pavers (Hazard only)	0	Item	319.78	1.29	\$ -
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	2.34	m3	206	1.29	\$ 621.83
	9.2	Rock allowance	1094	m3	116.53	1.29	\$ 164,497.03
	9.3	Redundant pavement demolition	60	m3	206	1.29	\$ 16,049.37
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 127,297.09
	10.2	VicRoads Fees	1	%	1	1	\$ 39,168.34
	10.3	Traffic Management	1	%	5	1	\$ 195,841.68
	10.4	Environmental Management	1	%	0.5	1	\$ 19,584.17
	10.5	Survey/Design	1	%	5	1	\$ 195,841.68
	10.6	Supervision and Project Management	1	%	9	1	\$ 352,515.02
	10.7	Site Establishment	1	%	2.5	1	\$ 97,920.84
	10.8	Contingency	1	%	15	1	\$ 587,525.03
		Excluding Delivery					\$ 3,916,833.54
		Including Delivery					\$ 5,532,527.38

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

RD-03-01 - Taylors Road (IN-07 to BR-01) ~ 300m
Road - Primary- 800m (Modified Benchmark Item 2)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	11140	m2	4.96	1.29	\$ 71,280.35
	1.2	Earthworks	2598	m3	40.52	1.29	\$ 135,808.39
	1.3	Erosion protection for 1:4 batters	866	m2	4.29	1.29	\$ 4,792.36
Road Pavement	2.1	Primary Arterial Pavement	2834	m2	186.26	1.29	\$ 680,857.68
	2.2	Collector Arterial Pavement	0	m2	112.44	1.29	\$ -
	2.3	Subgrade Preparation	567	m2	16.16	1.29	\$ 11,814.30
	2.4	Lime stabilisation, 0.5m past BoK	2834	m2	54.22	1.29	\$ 198,196.63
Concrete Works	3.1	Kerb and Channel	866	m	60.9	1.29	\$ 68,031.46
	3.2	Traffic Island	41	m2	84.07	1.29	\$ 4,473.53
	3.3	SUP/footpath/ Cycle Path	2819	m2	91.94	1.29	\$ 334,373.81
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	120	m	282.96	1.29	\$ 43,802.21
	4.3	Drainage Pipe 450mm CR Bfilled	120	m	334.33	1.29	\$ 51,754.28
	4.4	Drainage Pipe 600mm CR Bfilled	240	m	550	1.29	\$ 170,280.00
	4.5	Drainage - Pits	8	No.	2806.1	1.29	\$ 28,958.95
	4.6	Drainage - Subsoil Drainage	866	m	43.4	1.29	\$ 48,482.19
Traffic	5.1	Traffic Signals	0	Item/ per leg	128786.3	1.29	\$ -
Landscape	6.1	Trees	41	No. m2 m2	363.01	1.29	\$ 18,965.46
	6.2	Landscaping	5446	m2	25.16	1.29	\$ 176,762.59
	6.3	Topsoil Seeding	5446	m2	8.44	1.29	\$ 59,295.56
Street Lighting	7.1	Street Lighting	7	m	225.67	1.29	\$ 2,037.80
Miscellaneous	8.1	Linemarking	8472	m2 of pavement t	4.09	1.29	\$ 44,700.24
	8.2	Regulatory Signage	8	Item	380.39	1.29	\$ 3,925.62
	8.3	Landscape Maintenance (road)	2042	m2	2.96	1.29	\$ 7,798.35
	8.4	Tactile Pavers (Hazard only)	0	Item	319.78	1.29	\$ -
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	567	m3	116.53	1.29	\$ 85,193.11
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 73,176.51
	10.2	VicRoads Fees	1	%	1	1	\$ 22,515.85
	10.3	Traffic Management	1	%	5	1	\$ 112,579.24
	10.4	Environmental Management	1	%	0.5	1	\$ 11,257.92
	10.5	Survey/Design	1	%	5	1	\$ 112,579.24
	10.6	Supervision and Project Management	1	%	9	1	\$ 202,642.64
	10.7	Site Establishment	1	%	2.5	1	\$ 56,289.62
	10.8	Contingency	1	%	15	1	\$ 337,737.73
		Excluding Delivery				1	\$ 2,251,584.88
		Including Delivery					\$ 3,180,363.65

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

RD-03-02 - Taylors Road (IN-10 to IN-11) ~ 800m
Road - Primary - 800m (Benchmark Item 2)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	37547	m2	4.96	1.29	\$ 240,237.72
	1.2	Earthworks	5690	m3	40.52	1.29	\$ 297,430.29
	1.3	Erosion protection for 1:4 batters	1756	m2	4.29	1.29	\$ 9,715.28
Road Pavement	2.1	Primary Arterial Pavement	6278	m2	186.26	1.29	\$ 1,508,555.38
	2.2	Collector Arterial Pavement	0	m2	112.44	1.29	\$ -
	2.3	Subgrade Preparation	1256	m2	16.16	1.29	\$ 26,176.59
	2.4	Lime stabilisation, 0.5m past BoK	6278	m2	54.22	1.29	\$ 439,138.15
Concrete Works	3.1	Kerb and Channel	1756	m	60.9	1.29	\$ 137,916.16
	3.2	Traffic Island	66	m2	84.07	1.29	\$ 7,158.63
	3.3	SUP/footpath/ Cycle Path	5939	m2	91.94	1.29	\$ 704,435.57
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	490	m	282.96	1.29	\$ 178,859.02
	4.3	Drainage Pipe 450mm CR Bfilled	250	m	334.33	1.29	\$ 107,821.43
	4.4	Drainage Pipe 600mm CR Bfilled	250	m	550	1.29	\$ 177,375.00
	4.5	Drainage - Pits	20	No.	2806.1	1.29	\$ 72,397.38
	4.6	Drainage - Subsoil Drainage	1756	m	43.4	1.29	\$ 98,285.08
Traffic	5.1	Traffic Signals	0	Item/ per leg	128786.3	1.29	\$ -
Landscape	6.1	Trees	108	No. m2 m2	363.01	1.29	\$ 50,574.55
	6.2	Landscaping	25263	m2	25.16	1.29	\$ 819,933.60
	6.3	Topsoil Seeding	25263	m2	8.44	1.29	\$ 275,049.27
Street Lighting	7.1	Street Lighting	17	m	225.67	1.29	\$ 4,948.94
Miscellaneous	8.1	Linemarking	18157	m2 of pavemen t	4.09	1.29	\$ 95,800.08
	8.2	Regulatory Signage	18	Item	380.39	1.29	\$ 8,832.66
	8.3	Landscape Maintenance (road)	25263	m2	2.96	1.29	\$ 96,462.78
	8.4	Tactile Pavers (Hazard only)	0	Item	319.78	1.29	\$ -
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	10.8	m3	206	1.29	\$ 2,869.99
	9.2	Rock allowance	1256	m3	116.53	1.29	\$ 188,759.75
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 180,333.83
	10.2	VicRoads Fees	1	%	1	1	\$ 55,487.33
	10.3	Traffic Management	1	%	5	1	\$ 277,436.66
	10.4	Environmental Management	1	%	0.5	1	\$ 27,743.67
	10.5	Survey/Design	1	%	5	1	\$ 277,436.66
	10.6	Supervision and Project Management	1	%	9	1	\$ 499,386.00
	10.7	Site Establishment	1	%	2.5	1	\$ 138,718.33
	10.8	Contingency	1	%	15	1	\$ 832,309.99
		Excluding Delivery				1	\$ 5,548,733.29
		Including Delivery					\$ 7,837,585.77

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

RD-03-03 - Taylors Road (IN-11 to IN-13) ~ 150m
Road - Primary - 800m (Benchmark Item 2)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	9582	m2	4.96	1.29	\$ 61,312.19
	1.2	Earthworks	1837	m3	40.52	1.29	\$ 96,001.43
	1.3	Erosion protection for 1:4 batters	622	m2	4.29	1.29	\$ 3,442.15
Road Pavement	2.1	Primary Arterial Pavement	2177	m2	186.26	1.29	\$ 523,136.47
	2.2	Collector Arterial Pavement	0	m2	112.44	1.29	\$ -
	2.3	Subgrade Preparation	435	m2	16.16	1.29	\$ 9,077.51
	2.4	Lime stabilisation, 0.5m past BoK	2177	m2	54.22	1.29	\$ 152,284.22
Concrete Works	3.1	Kerb and Channel	622	m	60.9	1.29	\$ 48,864.08
	3.2	Traffic Island		m2	84.07	1.29	\$ -
	3.3	SUP/footpath/ Cycle Path	1399	m2	91.94	1.29	\$ 165,979.81
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	120	m	282.96	1.29	\$ 43,802.21
	4.3	Drainage Pipe 450mm CR Bfilled	90	m	334.33	1.29	\$ 38,815.71
	4.4	Drainage Pipe 600mm CR Bfilled	90	m	550	1.29	\$ 63,855.00
	4.5	Drainage - Pits	4	No.	2806.1	1.29	\$ 14,479.48
	4.6	Drainage - Subsoil Drainage	622	m	43.4	1.29	\$ 34,822.68
Traffic	5.1	Traffic Signals	0	Item/ per leg	128786.3	1.29	\$ -
Landscape	6.1	Trees	20	No. m2 m2	363.01	1.29	\$ 9,482.73
	6.2	Landscaping	6006	m2	25.16	1.29	\$ 194,924.28
	6.3	Topsoil Seeding	6006	m2	8.44	1.29	\$ 65,387.95
Street Lighting	7.1	Street Lighting	4	m	225.67	1.29	\$ 1,164.46
Miscellaneous	8.1	Linemarking	4976	m2 of pavemen t	4.09	1.29	\$ 26,254.72
	8.2	Regulatory Signage	4	Item	380.39	1.29	\$ 1,962.81
	8.3	Landscape Maintenance (road)	1126	m2	2.96	1.29	\$ 4,299.80
	8.4	Tactile Pavers (Hazard only)	0	Item	319.78	1.29	\$ -
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	435	m3	116.53	1.29	\$ 65,458.06
	9.3	Redundant pavement demolition	54	m3	206	1.29	\$ 14,349.96
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 53,272.63
	10.2	VicRoads Fees	1	%	1	1	\$ 16,391.58
	10.3	Traffic Management	1	%	5	1	\$ 81,957.89
	10.4	Environmental Management	1	%	0.5	1	\$ 8,195.79
	10.5	Survey/Design	1	%	5	1	\$ 81,957.89
	10.6	Supervision and Project Management	1	%	9	1	\$ 147,524.19
	10.7	Site Establishment	1	%	2.5	1	\$ 40,978.94
	10.8	Contingency	1	%	15	1	\$ 245,873.66
		Excluding Delivery				1	\$ 1,639,157.70
		Including Delivery					\$ 2,315,310.26

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

RD-03-04 - Taylors Road (IN-13 to IN-16) ~ 1000m
Road - Primary - 800m (Benchmark Item 2)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	37802	m2	4.96	1.29	\$ 241,873.25
	1.2	Earthworks	7504	m3	40.52	1.29	\$ 392,233.85
	1.3	Erosion protection for 1:4 batters	2161	m2	4.29	1.29	\$ 11,957.74
Road Pavement	2.1	Primary Arterial Pavement	7919	m2	186.26	1.29	\$ 1,902,837.72
	2.2	Collector Arterial Pavement	0	m2	112.44	1.29	\$ -
	2.3	Subgrade Preparation	1584	m2	16.16	1.29	\$ 33,018.21
	2.4	Lime stabilisation, 0.5m past BoK	3960	m2	54.22	1.29	\$ 276,956.57
Concrete Works	3.1	Kerb and Channel	2161	m	60.9	1.29	\$ 169,749.79
	3.2	Traffic Island	71	m2	84.07	1.29	\$ 7,704.23
	3.3	SUP/footpath/ Cycle Path	9136	m2	91.94	1.29	\$ 1,083,612.47
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	800	m	282.96	1.29	\$ 292,014.72
	4.3	Drainage Pipe 450mm CR Bfilled	300	m	334.33	1.29	\$ 129,385.71
	4.4	Drainage Pipe 600mm CR Bfilled	100	m	550	1.29	\$ 70,950.00
	4.5	Drainage - Pits	25	No.	2806.1	1.29	\$ 90,496.73
	4.6	Drainage - Subsoil Drainage	2161	m	43.4	1.29	\$ 120,971.11
Traffic	5.1	Traffic Signals	0	Item/ per leg	128786.34	1.29	\$ -
Landscape	6.1	Trees	135	No. m2	363.01	1.29	\$ 63,218.19
	6.2	Landscaping	20675	m2	25.16	1.29	\$ 671,042.71
	6.3	Topsoil Seeding	20675	m2	8.44	1.29	\$ 225,103.36
Street Lighting	7.1	Street Lighting	21	m	225.67	1.29	\$ 6,113.40
Miscellaneous	8.1	Linemarking	26192	m2 of pavement	4.09	1.29	\$ 138,193.72
	8.2	Regulatory Signage	22	Item	380.39	1.29	\$ 10,795.47
	8.3	Landscape Maintenance (road)	25844	m2	2.96	1.29	\$ 98,682.75
	8.4	Tactile Pavers (Hazard only)	0	Item	319.78	1.29	\$ -
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	1584	m3	116.53	1.29	\$ 238,094.79
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 203,937.71
	10.2	VicRoads Fees	1	%	1	1	\$ 62,750.06
	10.3	Traffic Management	1	%	5	1	\$ 313,750.32
	10.4	Environmental Management	1	%	0.5	1	\$ 31,375.03
	10.5	Survey/Design	1	%	5	1	\$ 313,750.32
	10.6	Supervision and Project Management	1	%	9	1	\$ 564,750.58
	10.7	Site Establishment	1	%	2.5	1	\$ 156,875.16
	10.8	Contingency	1	%	15	1	\$ 941,250.97
		Excluding Delivery				1	\$ 6,275,006.48
		Including Delivery					\$ 8,863,446.65

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

RD-04-01 - Paynes Road 9 BR-02 to IN-12) ~ 170m
Road - Connector Boulevard - 800m (Modified Benchmark Item 3)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	5571	m2	4.96	1.29	\$ 35,643.92
	1.2	Earthworks	917	m3	40.52	1.29	\$ 47,951.26
	1.3	Erosion protection for 1:4 batters	394	m2	4.29	1.29	\$ 2,181.30
Road Pavement	2.1	Primary Arterial Pavement	0	m2	186.26	1.29	\$ -
	2.2	Collector Arterial Pavement	1411	m2	112.44	1.29	\$ 204,663.88
	2.3	Subgrade Preparation	282	m2	16.16	1.29	\$ 5,882.90
	2.4	Lime stabilisation, 0.5m past BoK	1411	m2	54.22	1.29	\$ 98,691.53
Concrete Works	3.1	Kerb and Channel	394	m	60.9	1.29	\$ 30,965.24
	3.2	Traffic Island	20	m2	84.07	1.29	\$ 2,180.98
	3.3	SUP/footpath/ Cycle Path	792	m2	91.94	1.29	\$ 93,962.25
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	80	m	282.96	1.29	\$ 29,201.47
	4.3	Drainage Pipe 450mm CR Bfilled	60	m	334.33	1.29	\$ 25,877.14
	4.4	Drainage Pipe 600mm CR Bfilled	90	m	550	1.29	\$ 63,855.00
	4.5	Drainage - Pits	6	No.	2806.1	1.29	\$ 21,719.21
	4.6	Drainage - Subsoil Drainage	394	m	43.4	1.29	\$ 22,067.18
Traffic	5.1	Traffic Signals	0	Item/ per leg	128786.3	1.29	\$ -
Landscape	6.1	Trees	23	No. m2 m2	363.01	1.29	\$ 10,747.09
	6.2	Landscaping	3347	m2	25.16	1.29	\$ 108,644.19
	6.3	Topsoil Seeding	3347	m2	8.44	1.29	\$ 36,445.03
Street Lighting	7.1	Street Lighting	4	m	225.67	1.29	\$ 1,164.46
Miscellaneous	8.1	Linemarking	2996	m2 of pavemen t	4.09	1.29	\$ 15,804.56
	8.2	Regulatory Signage	4	Item	380.39	1.29	\$ 1,962.81
	8.3	Landscape Maintenance (road)	711	m2	2.96	1.29	\$ 2,716.10
	8.4	Tactile Pavers (Hazard only)	0	Item	319.78	1.29	\$ -
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	282	m3	116.53	1.29	\$ 42,421.70
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 29,404.35
	10.2	VicRoads Fees	1	%	1	1	\$ 9,047.49
	10.3	Traffic Management	1	%	5	1	\$ 45,237.46
	10.4	Environmental Management	1	%	0.5	1	\$ 4,523.75
	10.5	Survey/Design	1	%	5	1	\$ 45,237.46
	10.6	Supervision and Project Management	1	%	9	1	\$ 81,427.43
	10.7	Site Establishment	1	%	2.5	1	\$ 22,618.73
	10.8	Contingency	1	%	15	1	\$ 135,712.38
		Excluding Delivery				1	\$ 904,749.21
		Including Delivery					\$ 1,277,958.26

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

RD-05-01 - Leakes Road (BR-03 to IN-14) ~ 700m
Road - Secondary - 800m (Benchmark Item 2)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	26248	m2	4.96	1.29	\$ 167,945.95
	1.2	Earthworks	5360	m3	40.52	1.29	\$ 280,188.36
	1.3	Erosion protection for 1:4 batters	1438	m2	4.29	1.29	\$ 7,960.64
Road Pavement	2.1	Primary Arterial Pavement	6227	m2	186.26	1.29	\$ 1,496,297.95
	2.2	Collector Arterial Pavement	0	m2	112.44	1.29	\$ -
	2.3	Subgrade Preparation	1245	m2	16.16	1.29	\$ 25,963.89
	2.4	Lime stabilisation, 0.5m past BoK	6227	m2	54.22	1.29	\$ 435,570.03
Concrete Works	3.1	Kerb and Channel	1438	m	60.9	1.29	\$ 113,007.66
	3.2	Traffic Island	0	m2	84.07	1.29	\$ -
	3.3	SUP/footpath/ Cycle Path	4539	m2	91.94	1.29	\$ 538,284.58
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	400	m	282.96	1.29	\$ 146,007.36
	4.3	Drainage Pipe 450mm CR Bfilled	200	m	334.33	1.29	\$ 86,257.14
	4.4	Drainage Pipe 600mm CR Bfilled	200	m	550	1.29	\$ 141,900.00
	4.5	Drainage - Pits	18	No.	2806.1	1.29	\$ 65,157.64
	4.6	Drainage - Subsoil Drainage	1438	m	43.4	1.29	\$ 80,534.19
Traffic	5.1	Traffic Signals	0	Item/ per leg	128786.3	1.29	\$ -
Landscape	6.1	Trees	95	No. m2 m2	363.01	1.29	\$ 44,252.73
	6.2	Landscaping	15482	m2	25.16	1.29	\$ 502,494.28
	6.3	Topsoil Seeding	15482	m2	8.44	1.29	\$ 168,563.26
Street Lighting	7.1	Street Lighting	15	m	225.67	1.29	\$ 4,366.71
Miscellaneous	8.1	Linemarking	15305	m2 of pavemen t	4.09	1.29	\$ 80,748.29
	8.2	Regulatory Signage	16	Item	380.39	1.29	\$ 7,851.25
	8.3	Landscape Maintenance (road)	13547	m2	2.96	1.29	\$ 51,727.35
	8.4	Tactile Pavers (Hazard only)	0	Item	319.78	1.29	\$ -
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	1245	m3	116.53	1.29	\$ 187,226.03
	9.3	Redundant pavement demolition	876	m3	206	1.29	\$ 232,814.81
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 158,116.40
	10.2	VicRoads Fees	1	%	1	1	\$ 48,651.20
	10.3	Traffic Management	1	%	5	1	\$ 243,256.01
	10.4	Environmental Management	1	%	0.5	1	\$ 24,325.60
	10.5	Survey/Design	1	%	5	1	\$ 243,256.01
	10.6	Supervision and Project Management	1	%	9	1	\$ 437,860.81
	10.7	Site Establishment	1	%	2.5	1	\$ 121,628.00
	10.8	Contingency	1	%	15	1	\$ 729,768.02
		Excluding Delivery				1	\$ 4,865,120.13
		Including Delivery					\$ 6,871,982.18

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

RD-05-02 - Leakes Road (IN-14 to IN-17) ~ 420m
Road -Secondary - 800m (Benchmark Item 2)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	16149	m2	4.96	1.29	\$ 103,324.90
	1.2	Earthworks	3619	m3	40.52	1.29	\$ 189,147.70
	1.3	Erosion protection for 1:4 batters	812	m2	4.29	1.29	\$ 4,491.79
Road Pavement	2.1	Primary Arterial Pavement	4335	m2	186.26	1.29	\$ 1,041,550.87
	2.2	Collector Arterial Pavement	0	m2	112.44	1.29	\$ -
	2.3	Subgrade Preparation	867	m2	16.16	1.29	\$ 18,073.08
	2.4	Lime stabilisation, 0.5m past BoK	4335	m2	54.22	1.29	\$ 303,193.86
Concrete Works	3.1	Kerb and Channel	812	m	60.9	1.29	\$ 63,764.60
	3.2	Traffic Island	0	m2	84.07	1.29	\$ -
	3.3	SUP/footpath/ Cycle Path	2596	m2	91.94	1.29	\$ 307,900.64
	3.4	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	230	m	282.96	1.29	\$ 83,954.23
	4.3	Drainage Pipe 450mm CR Bfilled	120	m	334.33	1.29	\$ 51,754.28
	4.4	Drainage Pipe 600mm CR Bfilled	120	m	550	1.29	\$ 85,140.00
	4.5	Drainage - Pits	11	No.	2806.1	1.29	\$ 39,818.56
	4.6	Drainage - Subsoil Drainage	812	m	43.4	1.29	\$ 45,441.44
Traffic	5.1	Traffic Signals	0	Item/ per leg	128786.3	1.29	\$ -
Landscape	6.1	Trees	57	No. m2	363.01	1.29	\$ 26,551.64
	6.2	Landscaping	9218	m2	25.16	1.29	\$ 299,172.11
	6.3	Topsoil Seeding	9218	m2	8.44	1.29	\$ 100,358.21
Street Lighting	7.1	Street Lighting	9	m	225.67	1.29	\$ 2,620.03
Miscellaneous	8.1	Linemarking	9527	m2 of pavement	4.09	1.29	\$ 50,265.20
	8.2	Regulatory Signage	10	Item	380.39	1.29	\$ 4,907.03
	8.3	Landscape Maintenance (road)	4839	m2	2.96	1.29	\$ 18,478.28
	8.4	Tactile Pavers (Hazard only)	0	Item	319.78	1.29	\$ -
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	867	m3	116.53	1.29	\$ 130,325.27
	9.3	Redundant pavement demolition	463	m3	206	1.29	\$ 123,090.77
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 100,533.05
	10.2	VicRoads Fees	1	%	1	1	\$ 30,933.24
	10.3	Traffic Management	1	%	5	1	\$ 154,666.22
	10.4	Environmental Management	1	%	0.5	1	\$ 15,466.62
	10.5	Survey/Design	1	%	5	1	\$ 154,666.22
	10.6	Supervision and Project Management	1	%	9	1	\$ 278,399.20
	10.7	Site Establishment	1	%	2.5	1	\$ 77,333.11
	10.8	Contingency	1	%	15	1	\$ 463,998.67
		Excluding Delivery				1	\$ 3,093,324.49
		Including Delivery					\$ 4,369,320.84

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

BR-01 - Tarletons Road crossing Kororoit Creek
 Bridge - 100m - Secondary (Modified Benchmark Item 20)
 Bridge Length - 260m
 Bridge Width - 16m

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Amount (\$)
Siteworks and Earthworks	1.1	Site Preparation	2	Item	50000	\$ 100,000.00
	1.2	Earthworks	800	m3	70	\$ 56,000.00
	1.3	Set-Out	1	Item	15000	\$ 15,000.00
Structure	2.1	Slab & foundations/piers/beams	4160	m2	6500	\$ 27,040,000.00
	2.2	Abutments	2	Item	650000	\$ 1,300,000.00
	2.3	Bridge Containment Barrier	520	LM	2400	\$ 1,248,000.00
	2.4	Other		Item	0	\$ -
On-Bridge Works	3.1	Asphalt wearing course over slab	1820	m2	160	\$ 291,200.00
	3.2	Kerb and Channel	520	LM	105	\$ 54,600.00
	3.3	Footpath	1560	m2	195	\$ 304,200.00
	3.4	Lighting on-bridge	8	Item	25500	\$ 204,000.00
	3.5	Other		Item	0	\$ -
Off-Bridge Works	4.1	Approach slabs	105	m2	600	\$ 63,000.00
	4.2	Safety guard rail/ barrier	200	LM	1800	\$ 360,000.00
	4.3	Drainage	2	Item	120000	\$ 240,000.00
	4.4	Scour Protection	2	Item	30000	\$ 60,000.00
	4.5	3 x 10m wide Box Culverts for Growling Grass Frog crossings	3113958	Item	1	\$ 3,113,957.64
Miscellaneous	5.1	Line-marking	260	LM	52	\$ 13,520.00
	5.2	Regulatory Signage	1	Item	25000	\$ 25,000.00
	5.3	Maintenance of works - 1 year	1	Item	150000	\$ 150,000.00
Services	6.1	Services conduit on-bridge	260	LM	1000	\$ 260,000.00
Delivery	7.1	Council Fees	1	%	3.25	\$ 1,134,200.52
	7.2	VicRoads Fees	1	%	1	\$ 348,984.78
	7.3	Traffic Management	1	%	5	\$ 1,744,923.88
	7.4	Environmental Management	1	%	0.5	\$ 174,492.39
	7.5	Survey/Design	1	%	5	\$ 1,744,923.88
	7.6	Supervision and Project Management	1	%	9	\$ 3,140,862.99
	7.7	Site Establishment	1	%	2.5	\$ 872,461.94
	7.8	Contingency	1	%	20	\$ 6,979,695.53
		Excluding Delivery				\$ 34,898,477.64
		Including Delivery				\$ 51,039,023.55

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

BR-02 - Paynes Road crossing Kororoit Creek ~ 120m long
 Bridge - 100m - Secondary (Modified Benchmark Item 20)
 Bridge Length - 120m
 Bridge Width - 14.5m

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Amount (\$)
Siteworks and Earthworks	1.1	Site Preparation	2	Item	50000	\$ 100,000.00
	1.2	Earthworks	2175	m3	70	\$ 152,250.00
	1.3	Set-Out	1	Item	15000	\$ 15,000.00
Structure	2.1	Slab & foundations/piers/beams	1740	m2	6500	\$ 11,310,000.00
	2.2	Abutments	2	Item	650000	\$ 1,300,000.00
	2.3	Bridge Containment Barrier	240	LM	2400	\$ 576,000.00
	2.4	Other		Item	0	\$ -
On-Bridge Works	3.1	Asphalt wearing course over slab	840	m2	160	\$ 134,400.00
	3.2	Kerb and Channel	240	LM	105	\$ 25,200.00
	3.3	Footpath	540	m2	195	\$ 105,300.00
	3.4	Lighting on-bridge	4	Item	25500	\$ 102,000.00
	3.5	Other		Item	0	\$ -
Off-Bridge Works	4.1	Approach slabs	95	m2	600	\$ 56,700.00
	4.2	Safety guard rail/ barrier	200	LM	1800	\$ 360,000.00
	4.3	Drainage	2	Item	120000	\$ 240,000.00
	4.4	Scour Protection	2	Item	30000	\$ 60,000.00
	4.5	3 x 10m wide Box Culverts for Growling Grass Frog crossings	3113958	Item	1	\$ 3,113,957.64
Miscellaneous	5.1	Line-marking	120	LM	52	\$ 6,240.00
	5.2	Regulatory Signage	1	Item	25000	\$ 25,000.00
	5.3	Maintenance of works - 1 year	1	Item	150000	\$ 150,000.00
Services	6.1	Services conduit on-bridge	120	LM	1000	\$ 120,000.00
Delivery	7.1	Council Fees	1	%	3.25	\$ 583,441.55
	7.2	VicRoads Fees	1	%	1	\$ 179,520.48
	7.3	Traffic Management	1	%	5	\$ 897,602.38
	7.4	Environmental Management	1	%	0.5	\$ 89,760.24
	7.5	Survey/Design	1	%	5	\$ 897,602.38
	7.6	Supervision and Project Management	1	%	9	\$ 1,615,684.29
	7.7	Site Establishment	1	%	2.5	\$ 448,801.19
	7.8	Contingency	1	%	20	\$ 3,590,409.53
		Excluding Delivery				\$ 17,952,047.64
		Including Delivery				\$ 26,254,869.67

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

BR-03 - Leakes Road crossing Kororoit Creek
 Bridge - 100m - Secondary (Modified Benchmark Item 20)
 Bridge Length - 40m
 Bridge Width - 16m

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Amount (\$)
Siteworks and Earthworks	1.1	Site Preparation	2	Item	50000	\$ 100,000.00
	1.2	Earthworks	640	m3	70	\$ 44,800.00
	1.3	Set-Out	1	Item	15000	\$ 15,000.00
Structure	2.1	Slab & foundations/piers/beams	640	m2	6500	\$ 4,160,000.00
	2.2	Abutments	2	Item	650000	\$ 1,300,000.00
	2.3	Bridge Containment Barrier	80	LM	2400	\$ 192,000.00
	2.4	Other		Item	0	\$ -
On-Bridge Works	3.1	Asphalt wearing course over slab	280	m2	160	\$ 44,800.00
	3.2	Kerb and Channel	80	LM	105	\$ 8,400.00
	3.3	Footpath	240	m2	195	\$ 46,800.00
	3.4	Lighting on-bridge	1	Item	25500	\$ 25,500.00
	3.5	Other		Item	0	\$ -
Off-Bridge Works	4.1	Approach slabs	105	m2	600	\$ 63,000.00
	4.2	Safety guard rail/ barrier	200	LM	1800	\$ 360,000.00
	4.3	Drainage	2	Item	120000	\$ 240,000.00
	4.4	Scour Protection	2	Item	30000	\$ 60,000.00
	4.5	3 x 10m wide Box Culverts for Growling Grass Frog crossings	3113958	Item	1	\$ 3,113,957.64
Miscellaneous	5.1	Line-marking	40	LM	52	\$ 2,080.00
	5.2	Regulatory Signage	1	Item	25000	\$ 25,000.00
	5.3	Maintenance of works - 1 year	1	Item	150000	\$ 150,000.00
Services	6.1	Services conduit on-bridge	40	LM	1000	\$ 40,000.00
Delivery	7.1	Council Fees	1	%	3.25	\$ 324,718.47
	7.2	VicRoads Fees	1	%	1	\$ 99,913.38
	7.3	Traffic Management	1	%	5	\$ 499,566.88
	7.4	Environmental Management	1	%	0.5	\$ 49,956.69
	7.5	Survey/Design	1	%	5	\$ 499,566.88
	7.6	Supervision and Project Management	1	%	9	\$ 899,220.39
	7.7	Site Establishment	1	%	2.5	\$ 249,783.44
	7.8	Contingency	1	%	20	\$ 1,998,267.53
		Excluding Delivery				\$ 9,991,337.64
		Including Delivery				\$ 14,612,331.30

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

CU-BR-01 - Culvert - Tarletons Road (RD-02)

Rev 2 - 7 Feb 2025

Culvert Option 1 - Item 25

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark Cost Index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	647	m2	4.23	1.29	\$ 3,530.48
	1.2	Diversion works	1	Item	11500	1.29	\$ 14,835.00
	1.3	Waterway re-shaping	1	Item	3450	1.29	\$ 4,450.50
	1.4	Stripping of topsoil	1294	m2	4.49	1.29	\$ 7,494.98
	1.5	Excavation	2930	m3	42.55	1.29	\$ 160,826.24
	1.6	Formation of batters	220	m3	17.25	1.29	\$ 4,895.55
Drainage Structure	2.1	Box culvert units 1200 x 2100 (No.)	85	No.	2754.25	1.29	\$ 302,003.51
	2.2	Link slab 1200 x 2100 (No.)	0	No.	1682.45	1.29	\$ -
	2.3	Foundation slab 1200 x 2100 (200mm)	587	m2	243.8	1.29	\$ 184,612.67
	2.4	Granular Bedding 150 mm thick crushed	647	m2	19.84	1.29	\$ 16,559.06
	2.5	Apron slab (m2)	60	m2	253.29	1.29	\$ 19,604.65
	2.6	Wing wall (m2)	19	m2	805	1.29	\$ 19,730.55
	2.7	End wall (m2)	57	m2	805	1.29	\$ 59,191.65
	2.8	Lime stabilisation, 0.5m past Bok	587	m2	54.22	1.29	\$ 41,057.01
On Structure	3.1	Structural Fill (m3)	646	m3	86.25	1.29	\$ 71,875.58
	3.2	Vehicle Barrier	46	lm	284.63	1.29	\$ 16,889.94
	3.3	Signs (Item)	1	Item	2070	1.29	\$ 2,670.30
Other	4.1	Rock allowance	118	m3	116.53	1.29	\$ 17,738.20
Delivery	5.1	Council Fees	1	%	3.25	1	\$ 23,882.86
	5.2	VicRoads Fees	1	%	1	1	\$ 7,348.57
	5.3	Traffic Management	1	%	5	1	\$ 36,742.86
	5.4	Environmental Management	1	%	0.5	1	\$ 3,674.29
	5.5	Survey/Design	1	%	5	1	\$ 36,742.86
	5.6	Supervision and Project Management	1	%	9	1	\$ 66,137.15
	5.7	Site Establishment	1	%	2.5	1	\$ 18,371.43
	5.8	Contingency	1	%	15	1	\$ 110,228.59
		Excluding Delivery					\$ 947,965.87
		Including Delivery					\$ 1,251,094.49

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

CU-BR-02 - Culvert - Paynes Road (RD-04)

Rev 2 - 7 Feb 2025

Culvert Option 1 - Item 25

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark Cost Index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	647	m2	4.23	1.29	\$ 3,530.48
	1.2	Diversion works	1	Item	11500	1.29	\$ 14,835.00
	1.3	Waterway re-shaping	1	Item	3450	1.29	\$ 4,450.50
	1.4	Stripping of topsoil	1294	m2	4.49	1.29	\$ 7,494.98
	1.5	Excavation	2930	m3	42.55	1.29	\$ 160,826.24
	1.6	Formation of batters	220	m3	17.25	1.29	\$ 4,895.55
Drainage Structure	2.1	Box culvert units 1200 x 2100 (No.)	85	No.	2754.25	1.29	\$ 302,003.51
	2.2	Link slab 1200 x 2100 (No.)	0	No.	1682.45	1.29	\$ -
	2.3	Foundation slab 1200 x 2100 (200mm)	587	m2	243.8	1.29	\$ 184,612.67
	2.4	Granular Bedding 150 mm thick crushed	647	m2	19.84	1.29	\$ 16,559.06
	2.5	Apron slab (m2)	60	m2	253.29	1.29	\$ 19,604.65
	2.6	Wing wall (m2)	19	m2	805	1.29	\$ 19,730.55
	2.7	End wall (m2)	57	m2	805	1.29	\$ 59,191.65
	2.8	Lime stabilisation, 0.5m past Bok	587	m2	54.22	1.29	\$ 41,057.01
On Structure	3.1	Structural Fill (m3)	646	m3	86.25	1.29	\$ 71,875.58
	3.2	Vehicle Barrier	46	lm	284.63	1.29	\$ 16,889.94
	3.3	Signs (Item)	1	Item	2070	1.29	\$ 2,670.30
Other	4.1	Rock allowance	118	m3	116.53	1.29	\$ 17,738.20
Delivery	5.1	Council Fees	1	%	3.25	1	\$ 23,882.86
	5.2	VicRoads Fees	1	%	1	1	\$ 7,348.57
	5.3	Traffic Management	1	%	5	1	\$ 36,742.86
	5.4	Environmental Management	1	%	0.5	1	\$ 3,674.29
	5.5	Survey/Design	1	%	5	1	\$ 36,742.86
	5.6	Supervision and Project Management	1	%	9	1	\$ 66,137.15
	5.7	Site Establishment	1	%	2.5	1	\$ 18,371.43
	5.8	Contingency	1	%	15	1	\$ 110,228.59
		Excluding Delivery					\$ 947,965.87
		Including Delivery					\$ 1,251,094.49

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

CU-BR-03 - Culvert - Leakes Road (RD-05)

Rev 2 - 7 Feb 2025

Culvert Option 1 - Item 25

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark Cost Index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	647	m2	4.23	1.29	\$ 3,530.48
	1.2	Diversion works	1	Item	11500	1.29	\$ 14,835.00
	1.3	Waterway re-shaping	1	Item	3450	1.29	\$ 4,450.50
	1.4	Stripping of topsoil	1294	m2	4.49	1.29	\$ 7,494.98
	1.5	Excavation	2930	m3	42.55	1.29	\$ 160,826.24
	1.6	Formation of batters	220	m3	17.25	1.29	\$ 4,895.55
Drainage Structure	2.1	Box culvert units 1200 x 2100 (No.)	85	No.	2754.25	1.29	\$ 302,003.51
	2.2	Link slab 1200 x 2100 (No.)	0	No.	1682.45	1.29	\$ -
	2.3	Foundation slab 1200 x 2100 (200mm)	587	m2	243.8	1.29	\$ 184,612.67
	2.4	Granular Bedding 150 mm thick crushed	647	m2	19.84	1.29	\$ 16,559.06
	2.5	Apron slab (m2)	60	m2	253.29	1.29	\$ 19,604.65
	2.6	Wing wall (m2)	19	m2	805	1.29	\$ 19,730.55
	2.7	End wall (m2)	57	m2	805	1.29	\$ 59,191.65
	2.8	Lime stabilisation, 0.5m past BoK	587	m2	54.22	1.29	\$ 41,057.01
On Structure	3.1	Structural Fill (m3)	646	m3	86.25	1.29	\$ 71,875.58
	3.2	Vehicle Barrier	46	lm	284.63	1.29	\$ 16,889.94
	3.3	Signs (Item)	1	Item	2070	1.29	\$ 2,670.30
Other	4.1	Rock allowance	118	m3	116.53	1.29	\$ 17,738.20
Delivery	5.1	Council Fees	1	%	3.25	1	\$ 23,882.86
	5.2	VicRoads Fees	1	%	1	1	\$ 7,348.57
	5.3	Traffic Management	1	%	5	1	\$ 36,742.86
	5.4	Environmental Management	1	%	0.5	1	\$ 3,674.29
	5.5	Survey/Design	1	%	5	1	\$ 36,742.86
	5.6	Supervision and Project Management	1	%	9	1	\$ 66,137.15
	5.7	Site Establishment	1	%	2.5	1	\$ 18,371.43
	5.8	Contingency	1	%	15	1	\$ 110,228.59
		Excluding Delivery					\$ 947,965.87
		Including Delivery					\$ 1,251,094.49

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

EXPECTED AMOUNT TO BE FUNDED BY THE DELIVERY AGENT FOR IN-01, IN-02 AND IN-14.

IN-01A - Melton Highway and North-South Connector Road
Intersection - Primary - Connector T-Signalised Intersection (Benchmark Item 13)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	1867	m2	4.96	1.29	\$ 11,948.87
	1.2	Soil stabilisation - gypsum treatment	38	m2	4.65	1.29	\$ 229.74
	1.3	Earthworks	1027	m3	40.52	1.29	\$ 53,685.21
	1.4	Erosion protection for 1:4 batters	247	m2	4.29	1.29	\$ 1,366.92
Road Pavement	2.1	Primary Arterial Pavement	1095	m2	186.26	1.29	\$ 263,052.79
	2.2	Collector Arterial Pavement	390	m2	112.44	1.29	\$ 56,522.34
	2.3	Subgrade Preparation	297	m2	16.16	1.29	\$ 6,189.21
	2.4	Lime stabilisation, 0.5m past BoK	1484	m2	54.22	1.29	\$ 103,830.05
Concrete Works	3.1	Kerb and Channel	247	m	60.9	1.29	\$ 19,404.57
	3.2	Traffic Island	33	m2	84.07	1.29	\$ 3,578.86
	3.4	SUP/footpath/ Cycle Path	146	m2	91.94	1.29	\$ 17,315.98
	3.6	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	60	m	282.96	1.29	\$ 21,901.10
	4.3	Drainage Pipe 450mm CR Bfilled	0	m	334.33	1.29	\$ -
	4.4	Drainage Pipe 600mm CR Bfilled	0	m	550	1.29	\$ -
	4.5	Drainage - Pits	2	No.	2806.1	1.29	\$ 7,239.74
	4.6	Drainage - Subsoil Drainage	247	m	43.4	1.29	\$ 13,828.54
Traffic	5.1	Traffic Signals	0	Item/ per leg	128786.34	1.29	\$ -
Landscape	6.1	Trees	13	No. m2	363.01	1.29	\$ 6,087.68
	6.2	Landscaping	204	m2	25.16	1.29	\$ 6,621.11
	6.4	Topsoil Seeding	204	m2	8.44	1.29	\$ 2,221.07
Street Lighting	7.1	Street Lighting	1	Item/ per leg	55617.74	1.29	\$ 71,746.88
Miscellaneous	8.1	Linemarking	1776	m2 of pavement	4.09	1.29	\$ 9,372.88
	8.2	Regulatory Signage	2	Item	380.39	1.29	\$ 981.41
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	6	Item	319.78	1.29	\$ 2,475.10
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	297	m3	116.53	1.29	\$ 44,630.45
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 27,232.40
	10.2	VicRoads Fees	1	%	1	1	\$ 8,379.20
	10.3	Traffic Management	1	%	5	1	\$ 41,896.00
	10.4	Environmental Management	1	%	0.5	1	\$ 4,189.60
	10.5	Survey/Design	1	%	5	1	\$ 41,896.00
	10.6	Supervision and Project Management	1	%	9	1	\$ 75,412.80
	10.7	Site Establishment	1	%	2.5	1	\$ 20,948.00
	10.8	Contingency	1	%	15	1	\$ 125,688.01
Total		Excluding Delivery					\$ 837,920.04
		Including Delivery					\$ 1,183,562.06

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

EXPECTED AMOUNT TO BE FUNDED BY THE DELIVERY AGENT FOR IN-01, IN-02 AND IN-14.

IN-02A - Melton Highway and Mount Cottrell Road
Intersection - Primary - Connector Intersection (Benchmark Item 7)

Rev 2 - 7 Feb 2025

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	3224	m2	4.96	1.29	\$ 20,627.75
	1.2	Soil stabilisation - gypsum treatment	128	m2	4.65	1.29	\$ 768.41
	1.3	Earthworks	1232	m3	40.52	1.29	\$ 64,373.14
	1.4	Erosion protection for 1:4 batters	343	m2	4.29	1.29	\$ 1,898.20
Road Pavement	2.1	Primary Arterial Pavement	965	m2	186.26	1.29	\$ 231,844.74
	2.2	Collector Arterial Pavement	978	m2	112.44	1.29	\$ 141,853.59
	2.3	Subgrade Preparation	389	m2	16.16	1.29	\$ 8,100.46
	2.4	Lime stabilisation, 0.5m past Bok	1943	m2	54.22	1.29	\$ 135,893.26
Concrete Works	3.1	Kerb and Channel	343	m	60.9	1.29	\$ 26,946.42
	3.2	Traffic Island	27	m2	84.07	1.29	\$ 2,928.16
	3.4	SUP/footpath/ Cycle Path	65	m2	91.94	1.29	\$ 7,709.17
	3.6	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	100	m	282.96	1.29	\$ 36,501.84
	4.3	Drainage Pipe 450mm CR Bfilled	0	m	334.33	1.29	\$ -
	4.4	Drainage Pipe 600mm CR Bfilled	0	m	550	1.29	\$ -
	4.5	Drainage - Pits	4	No.	2806.1	1.29	\$ 14,479.48
	4.6	Drainage - Subsoil Drainage	343	m	43.4	1.29	\$ 19,203.20
Traffic	5.1	Traffic Signals	0	Item/ per leg	128786.34	1.29	\$ -
Landscape	6.1	Trees	13	No. m2 m2	363.01	1.29	\$ 6,087.68
	6.2	Landscaping	1189	m2	25.16	1.29	\$ 38,590.66
	6.4	Topsoil Seeding	1189	m2	8.44	1.29	\$ 12,945.36
Street Lighting	7.1	Street Lighting	1	Item/ per leg	55617.74	1.29	\$ 71,746.88
Miscellaneous	8.1	Linemarking	2073	m2 of pavement	4.09	1.29	\$ 10,936.79
	8.2	Regulatory Signage	2	Item	380.39	1.29	\$ 981.41
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	6	Item	319.78	1.29	\$ 2,475.10
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	389	m3	116.53	1.29	\$ 58,412.55
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 33,442.30
	10.2	VicRoads Fees	1	%	1	1	\$ 10,289.94
	10.3	Traffic Management	1	%	5	1	\$ 51,449.69
	10.4	Environmental Management	1	%	0.5	1	\$ 5,144.97
	10.5	Survey/Design	1	%	5	1	\$ 51,449.69
	10.6	Supervision and Project Management	1	%	9	1	\$ 92,609.44
	10.7	Site Establishment	1	%	2.5	1	\$ 25,724.84
	10.8	Contingency	1	%	15	1	\$ 154,349.06
Total		Excluding Delivery					\$ 1,028,993.76
		Including Delivery					\$ 1,453,453.69

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

EXPECTED AMOUNT TO BE FUNDED BY THE DELIVERY AGENT FOR IN-01, IN-02 AND IN-14.

IN-14A - Leakes Road and Beattys Road

Rev 2 - 7 Feb 2025

Intersection - Secondary - Connector Intersection (Benchmark Item 9)

Group	Item	Description	Quantity	Unit	Rate (\$)	Benchmark cost index	Amount (\$) (With Benchmark cost index)
Siteworks and Earthworks	1.1	Site Preparation	8228	m2	4.96	1.29	\$ 52,647.42
	1.2	Earthworks	1542	m3	40.52	1.29	\$ 80,622.15
	1.3	Erosion protection for 1:4 batters	478	m2	4.29	1.29	\$ 2,645.30
Road Pavement	2.1	Primary Arterial Pavement	863	m2	186.26	1.29	\$ 207,388.04
	2.2	Collector Arterial Pavement	1326	m2	112.44	1.29	\$ 192,346.23
	2.3	Subgrade Preparation	438	m2	16.16	1.29	\$ 9,127.46
	2.4	Lime stabilisation, 0.5m past BoK	2189	m2	54.22	1.29	\$ 153,122.14
Concrete Works	3.1	Kerb and Channel	478	m	60.9	1.29	\$ 37,552.16
	3.2	Traffic Island	66	m2	84.07	1.29	\$ 7,157.72
	3.4	SUP/footpath/ Cycle Path	1013	m2	91.94	1.29	\$ 120,144.43
	3.6	Cycle Path	0	m2	91.94	1.29	\$ -
Drainage	4.1	Drainage Pipe 300mm CR Bfilled	0	m	197.96	1.29	\$ -
	4.2	Drainage Pipe 375mm CR Bfilled	140	m	282.96	1.29	\$ 51,102.58
	4.3	Drainage Pipe 450mm CR Bfilled	0	m	334.33	1.29	\$ -
	4.4	Drainage Pipe 600mm CR Bfilled	0	m	550	1.29	\$ -
	4.5	Drainage - Pits	6	No.	2806.1	1.29	\$ 21,719.21
	4.6	Drainage - Subsoil Drainage	478	m	43.4	1.29	\$ 26,761.31
Traffic	5.1	Traffic Signals	0	Item/ per leg	128786.3	1.29	\$ -
Landscape	6.1	Trees	10	No. m2	363.01	1.29	\$ 4,682.83
	6.2	Landscaping	4960	m2	25.16	1.29	\$ 160,983.74
	6.4	Topsoil Seeding	4960	m2	8.44	1.29	\$ 54,002.50
Street Lighting	7.1	Street Lighting	1	Item/ per leg	55617.74	1.29	\$ 71,746.88
Miscellaneous	8.1	Linemarking	4215	m2 of pavement	4.09	1.29	\$ 22,239.91
	8.2	Regulatory Signage	2	Item	380.39	1.29	\$ 981.41
	8.3	Landscape Maintenance (intersections)	1.00	Item	88131.43	1.29	\$ 113,689.54
	8.4	Tactile Pavers (Hazard only)	6	Item	319.78	1.29	\$ 2,475.10
Other	9.1	Demolition of existing concrete kerbs, footpath, islands	0	m3	206	1.29	\$ -
	9.2	Rock allowance	438	m3	116.53	1.29	\$ 65,818.23
	9.3	Redundant pavement demolition	0	m3	206	1.29	\$ -
Delivery	10.1	Council Fees	1	%	3.25	1	\$ 47,416.08
	10.2	VicRoads Fees	1	%	1	1	\$ 14,589.56
	10.3	Traffic Management	1	%	5	1	\$ 72,947.81
	10.4	Environmental Management	1	%	0.5	1	\$ 7,294.78
	10.5	Survey/Design	1	%	5	1	\$ 72,947.81
	10.6	Supervision and Project Management	1	%	9	1	\$ 131,306.07
	10.7	Site Establishment	1	%	2.5	1	\$ 36,473.91
	10.8	Contingency	1	%	15	1	\$ 218,843.44
Total		Excluding Delivery					\$ 1,458,956.30
		Including Delivery					\$ 2,060,775.77

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 unless otherwise noted. No allowance has been included for utility relocation works, geotechnical testing or WSUD. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.



Member of the Surbana Jurong Group

SMEC

Wurundjeri Country

Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne VIC 3008

Phone: 03 9514 1500

Email: melbourne@smec.com

We're redefining exceptional

Through our specialist expertise, we're challenging boundaries to deliver advanced infrastructure solutions.

www.smec.com