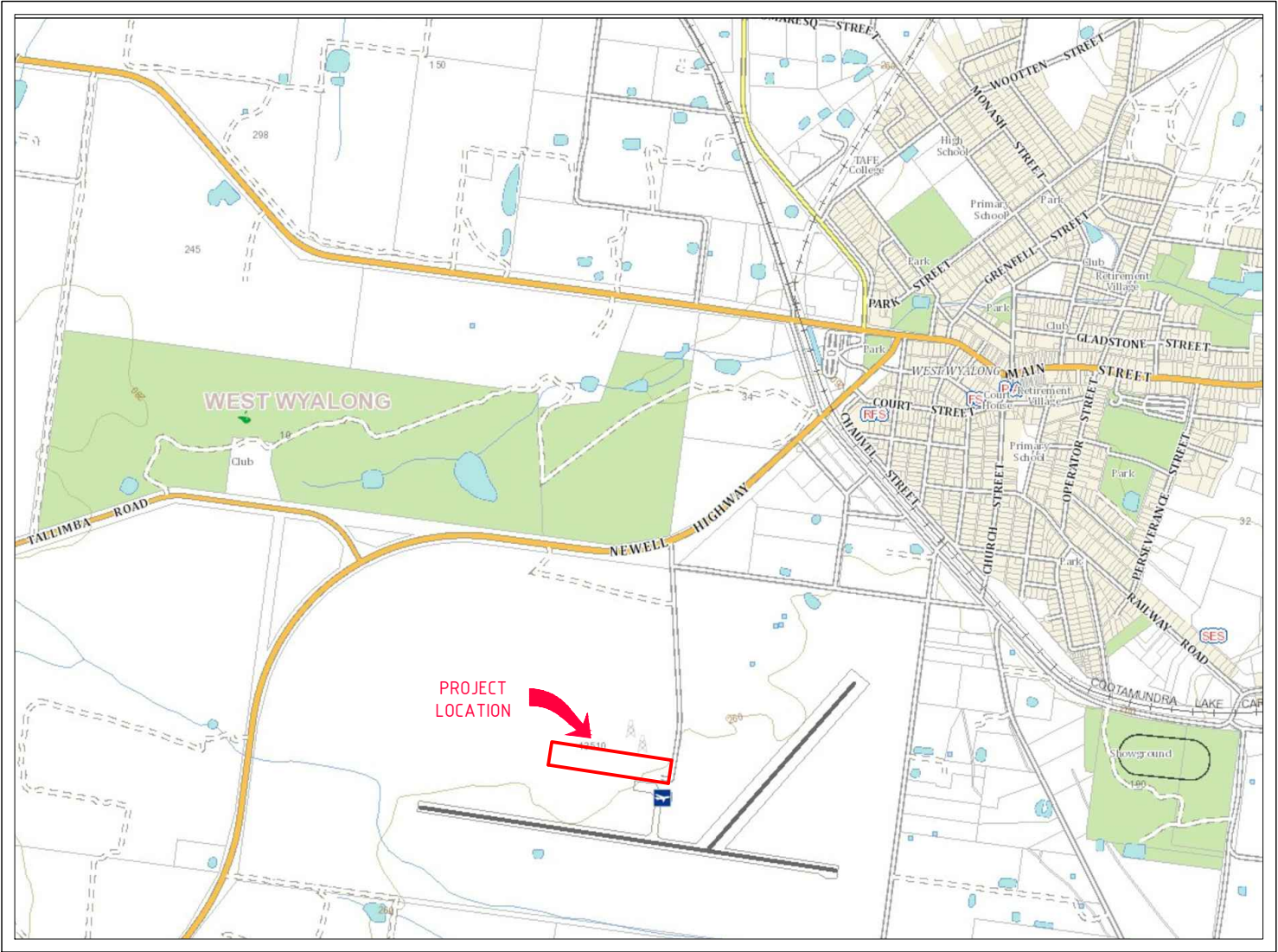


WESTERN WHEELERS MOTORSPORT PARK

REVISION D
AMENDED FOR COUNCIL APPROVAL
25-08-2023

DRAWING SCHEDULE	
SHEET	DRAWING TITLE
0	COVER SHEET
1	NOTES & BILL OF QUANTITIES
2	TYPICAL CROSS SECTIONS
3	GENERAL LAYOUT PLAN
4	DRAG STRIP PLAN & LONG SECTION (-20 - 340)
5	DRAG STRIP PLAN & LONG SECTION (340 - 620)
6	DRAG STRIP CROSS SECTIONS (-20 - 40)
7	DRAG STRIP CROSS SECTIONS (60 - 120)
8	DRAG STRIP CROSS SECTIONS (140 - 200)
9	DRAG STRIP CROSS SECTIONS (221.17 - 280)
10	DRAG STRIP CROSS SECTIONS (300 - 360)
11	DRAG STRIP CROSS SECTIONS (380 - 440)
12	DRAG STRIP CROSS SECTIONS (460 - 520)
13	DRAG STRIP CROSS SECTIONS (525.17 - 580)
14	DRAG STRIP CROSS SECTIONS (600 - 616.17)
15	RETURN ROAD PLAN & LONG SECTION (0 - 360)
16	RETURN ROAD PLAN & LONG SECTION (360 - 560)
17	ROAD 2 CROSS SECTIONS (24.14 - 42.73)
18	ROAD 2 CROSS SECTIONS (50 - 62.87)
19	ROAD 2 CROSS SECTIONS (66.2 - 120)
20	ROAD 2 CROSS SECTIONS (140 - 200)
21	ROAD 2 CROSS SECTIONS 220 - 280)
22	ROAD 2 CROSS SECTIONS (300 - 360)
23	ROAD 2 CROSS SECTIONS (380 - 440)
24	ROAD 2 CROSS SECTIONS (460 - 520)
25	ROAD 2 CROSS SECTIONS (540 - 560)
26	ROAD 3 PLAN & LONG SECTION
27	ROAD 3 CROSS SECTIONS (19.3 - 50)
28	ROAD 3 CROSS SECTIONS (60 - 106.26)
29	ROAD 3 CROSS SECTIONS (110 - 127.44)
30	CULVERTS 1, 2 & 4 PROFILES
31	CULVERTS 5 & 6 PROFILES
32	EROSION & SEDIMENT CONTROL PLAN (WEST)
33	EROSION & SEDIMENT CONTROL PLAN (EAST)
34	EROSION & SEDIMENT CONTROL NOTES
35	EROSION & SEDIMENT CONTROL DETAILS

LEGEND	
	EXISTING FENCELINE
	PROPOSED FENCE LINE
	PROPOSED GUARD RAIL
	PROPOSED ROAD CENTRELINE
	PROPOSED EDGE OF SEAL
	PROPOSED BATTER
	PROPOSED DRAIN INVERT
	PROPOSED CULVERT

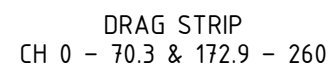
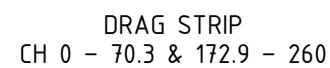
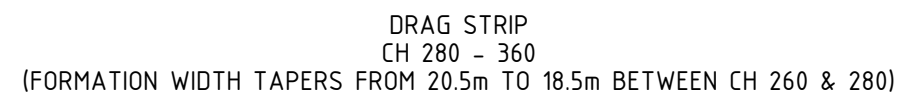
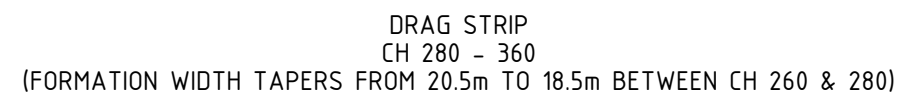
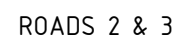


PROJECT LOCATION



REGIONAL ENGINEERING SERVICES
PO BOX 702
COOTAMUNDRA NSW 2590
PHONE 0407 351 404

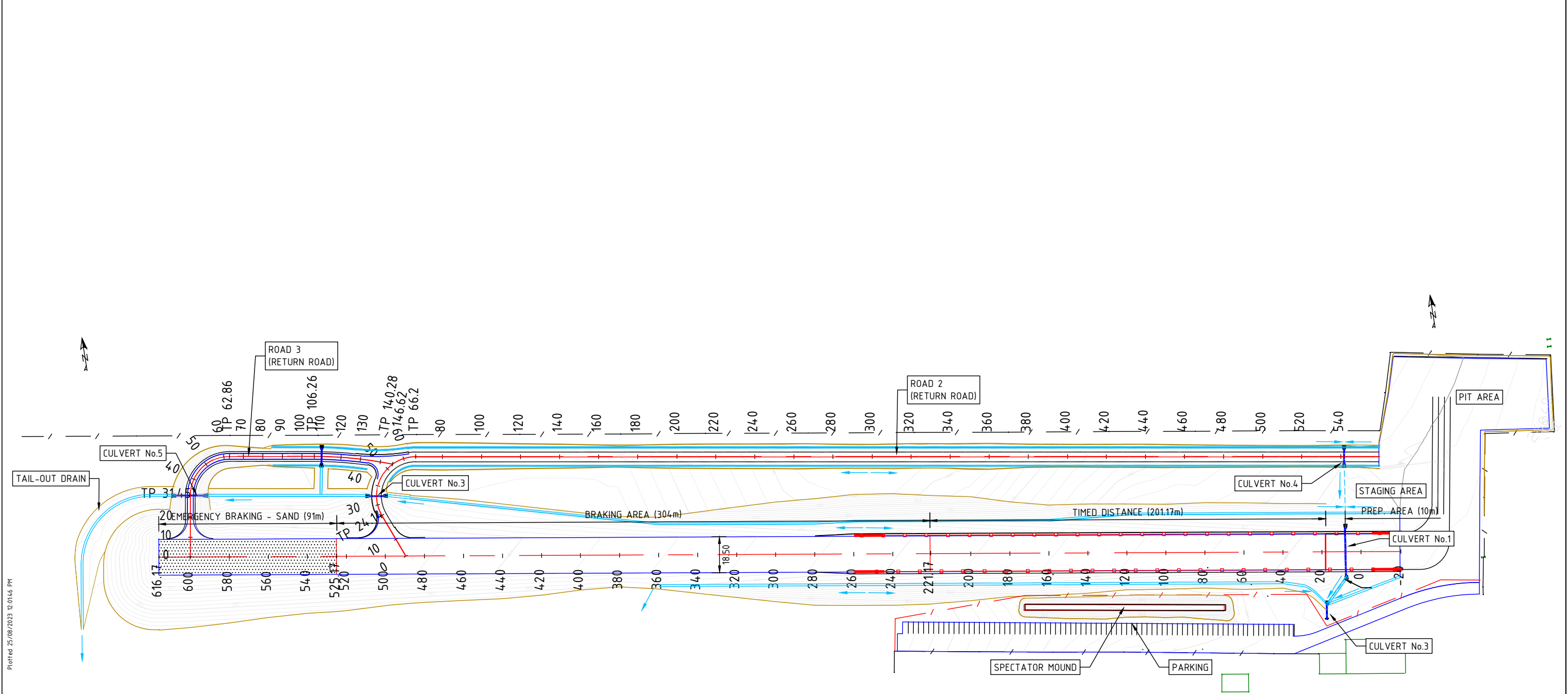
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DATUM:	AHD	D	AMENDED FOR COUNCIL APPROVAL	25-08-23				SHEET TITLE: NOTES & BILL OF QUANTITIES	
PROJECTION:	GDA2020 (ZONE 55)	C	FOR COUNCIL APPROVAL	22-06-23					
SURVEYED BY:		B	FOR REVIEW	19-06-23					
		A	DRAFT - FOR COUNCIL COMMENT	17-04-23					



SCALE:	1:200H 1:100V	REV.	DESCRIPTION	DATE	 REGIONAL ENGINEERING SERVICES PO BOX 702 COOTAMUNDRA NSW 2590 PHONE 0407 351 404	CLIENT: BLAND SHIRE COUNCIL	PROJECT: WESTERN WHEELERS MOTORSPORT PARK	SHEET No. 2	SHEETS 35
DATUM:	AHD	D	AMENDED FOR COUNCIL APPROVAL	25-08-23				SHEET TITLE: TYPICAL CROSS SECTIONS	
PROJECTION:	GDA2020 (ZONE 55)	C	FOR COUNCIL APPROVAL	22-06-23					
SURVEYED BY:		B	FOR REVIEW	19-06-23					
		A	DRAFT - FOR COUNCIL COMMENT	17-04-23					

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	D	AMENDED FOR COUNCIL APPROVAL	25-08-23				SHEET TITLE: GENERAL LAYOUT PLAN	
	C	FOR COUNCIL APPROVAL	22-06-23					
	B	FOR REVIEW	19-06-23					
	A	DRAFT - FOR COUNCIL COMMENT	17-04-23					
DATUM: AHD								
PROJECTION: GDA2020 (ZONE 55)								
SURVEYED BY:								

CULVERT No.3
EXISTING 450Ø RCP
GRADE UNKNOWN (FALL STH)
INLET INV. 259.705, OUTLET INV. 259.63
EXTEND (CL4 RRJ) 7.32m AT 1% GRADE

GRADE BETWEEN
CULVERTS 0.86%

CULVERT No.2
450Ø RCP CL4 RRJ
LENGTH 21.96m, GRADE 0.5% (FALL STH)
INLET INV. 259.97, OUTLET INV. 259.85
NEW CULVERT

GUARD RAIL

GUARD RAIL TERMINAL (TYPICAL)

NOTE: INSTALL ROCK RIPRAP ON BOTH ENDS
OF ALL CULVERTS TO DETAIL ON SHEET 9.

Class 4 RRJ450 Inv 259.905

0.500%

R.L. 256.0

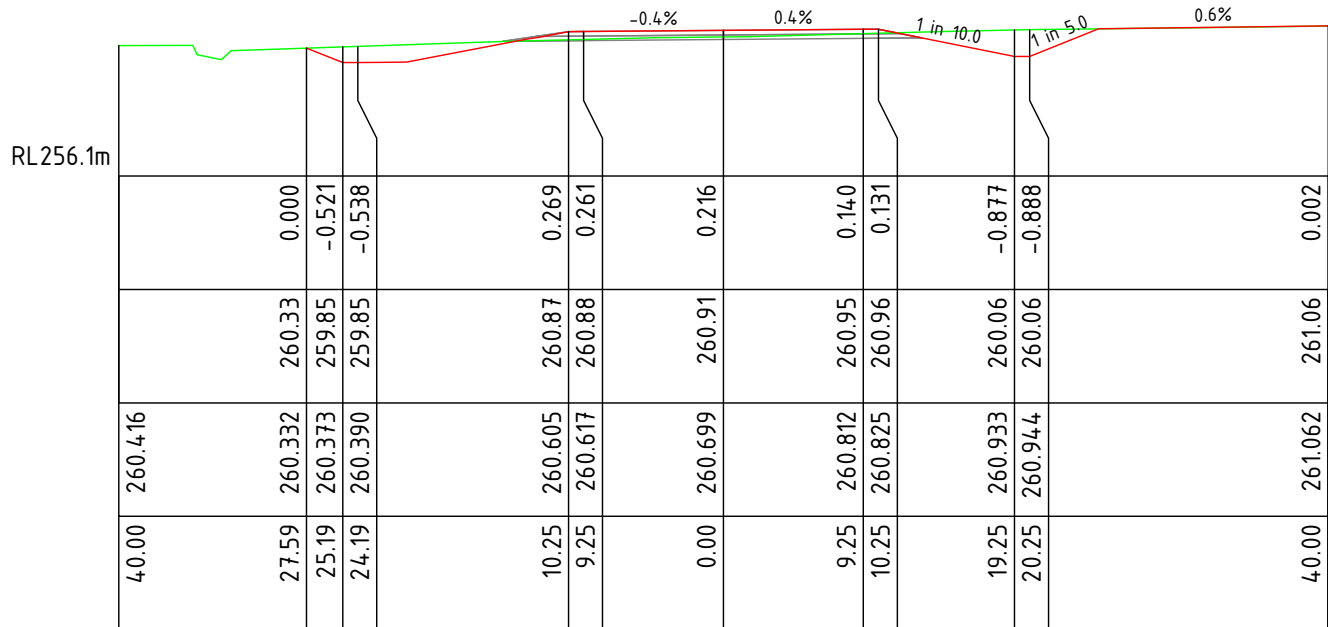
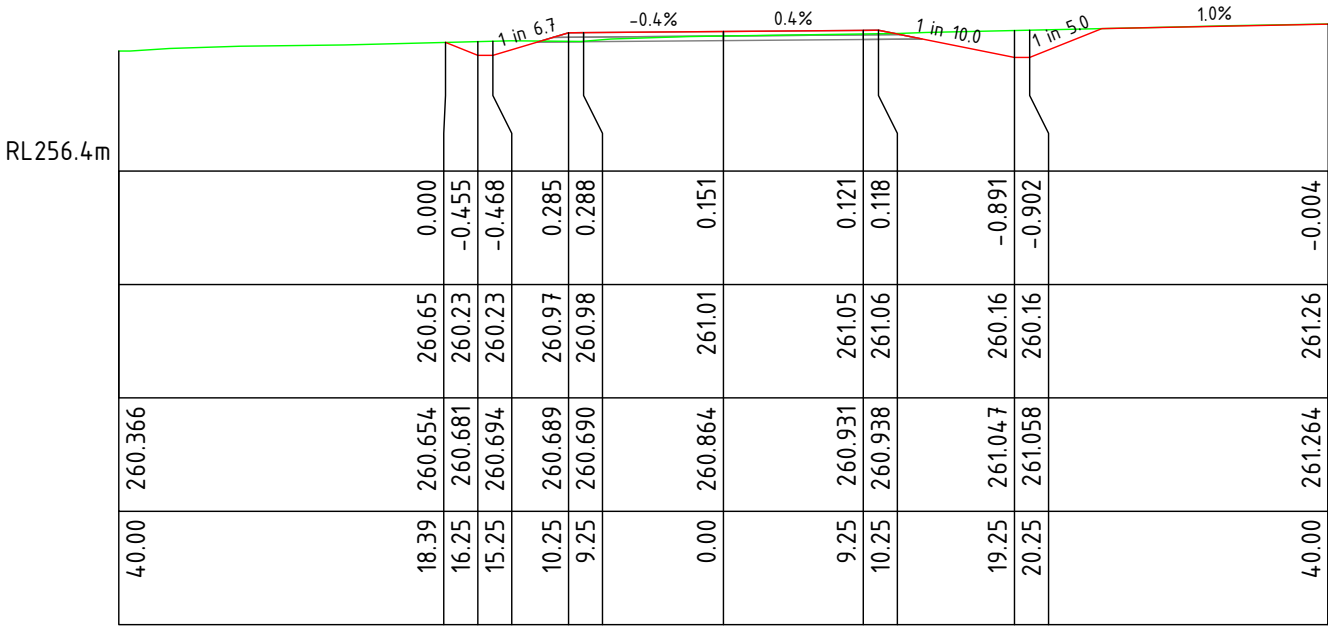
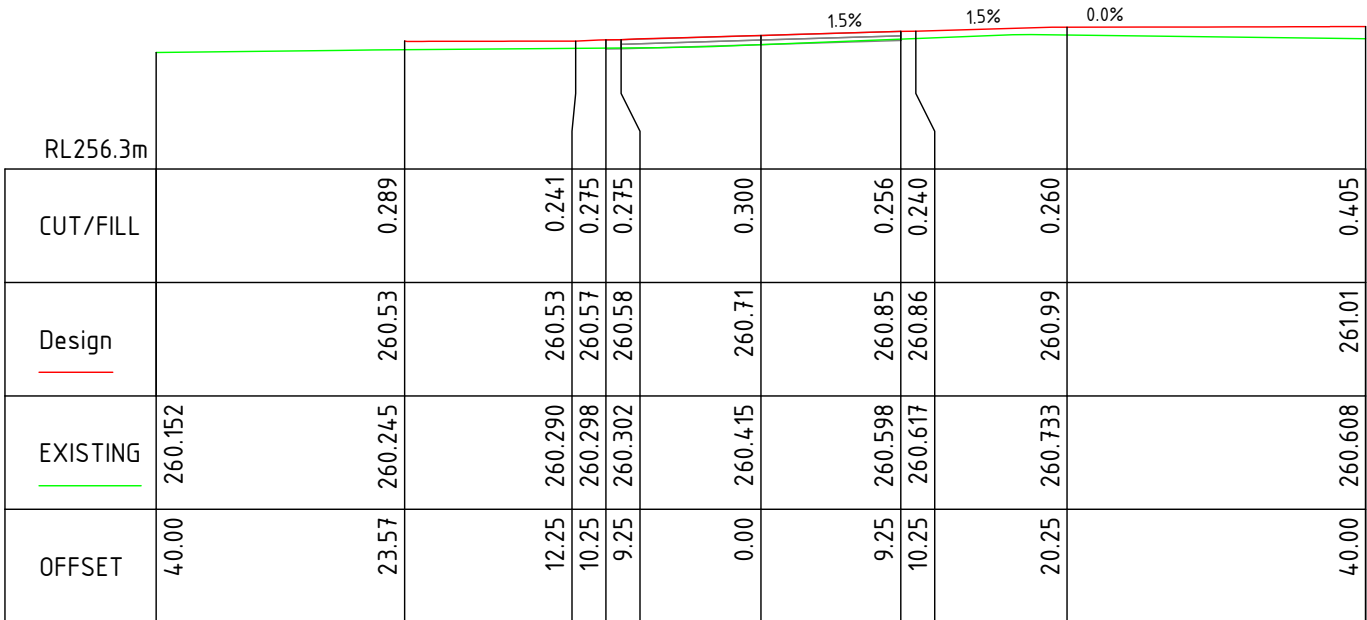
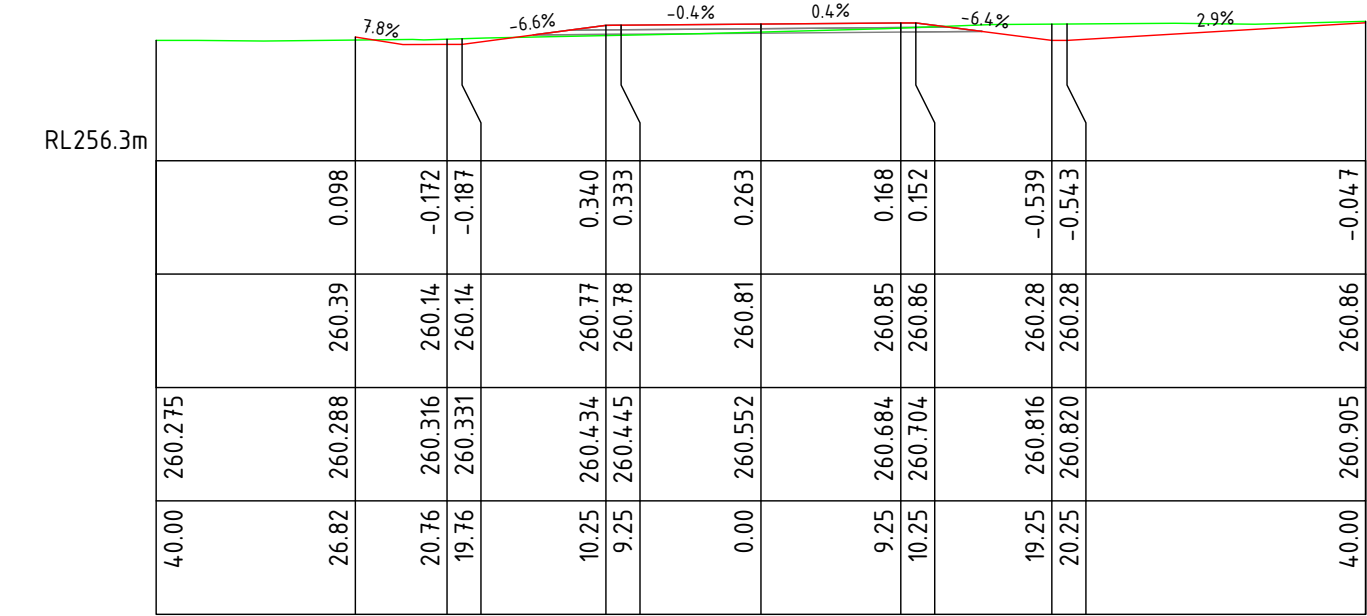
H GEOM	
EXIST. CL	

$$\frac{L=640.00}{B=278^{\circ}44'17''}$$

CHAINAGE	EXISTING CENTRELINE	DESIGN CENTRELINE	CUT / FILL
0.00	260.552	260.815	+0.263
20.00	260.699	260.915	+0.216
40.00	260.864	261.015	+0.151
60.00	260.871	261.115	+0.244
80.00	260.938	261.215	+0.277
100.00	261.012	261.315	+0.303
120.00	261.174	261.415	+0.241
140.00	261.399	261.515	+0.116
160.00	261.966	261.615	-0.351
180.00	262.591	261.715	-0.876
200.00	263.068	261.815	-1.253
220.00	263.577	261.915	-1.662
240.00	263.735	262.015	-1.720
260.00	263.945	262.115	-1.830
280.00	263.851	262.215	-1.636
300.00	263.602	262.315	-1.287
320.00	263.253	262.415	-0.838
340.00	262.874	262.515	-0.359

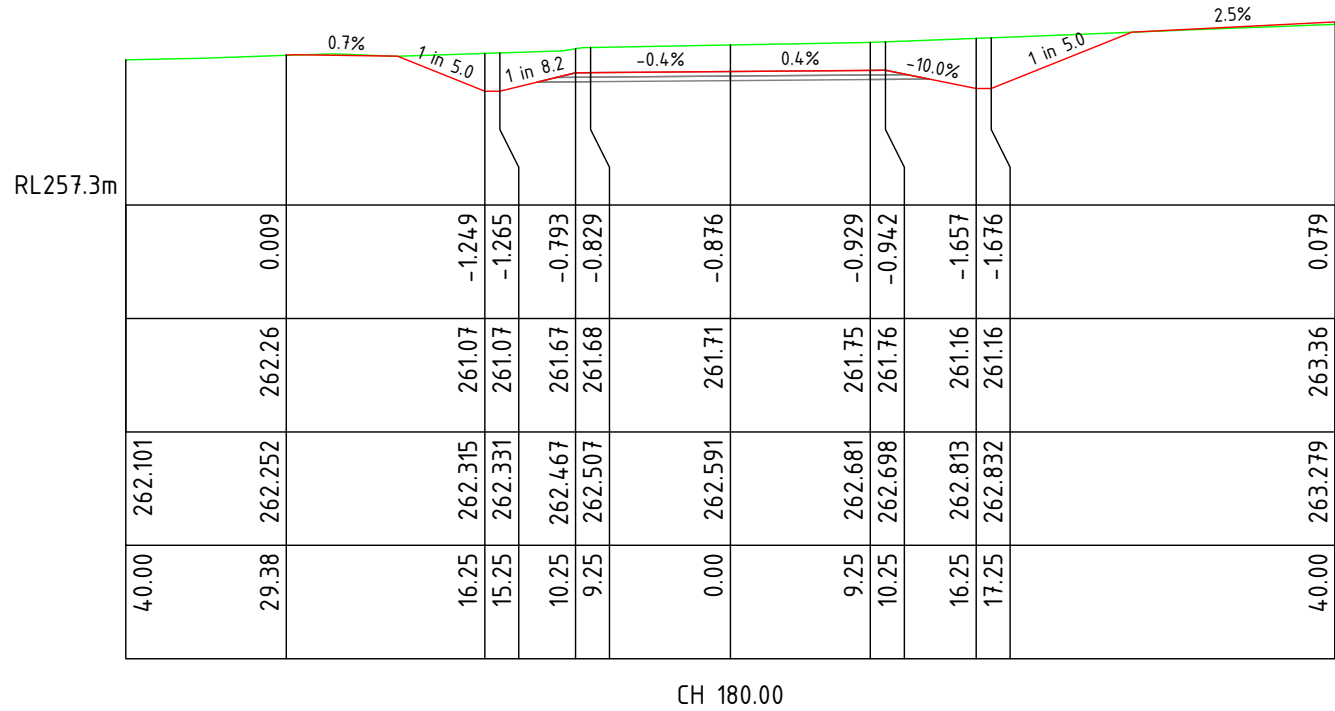
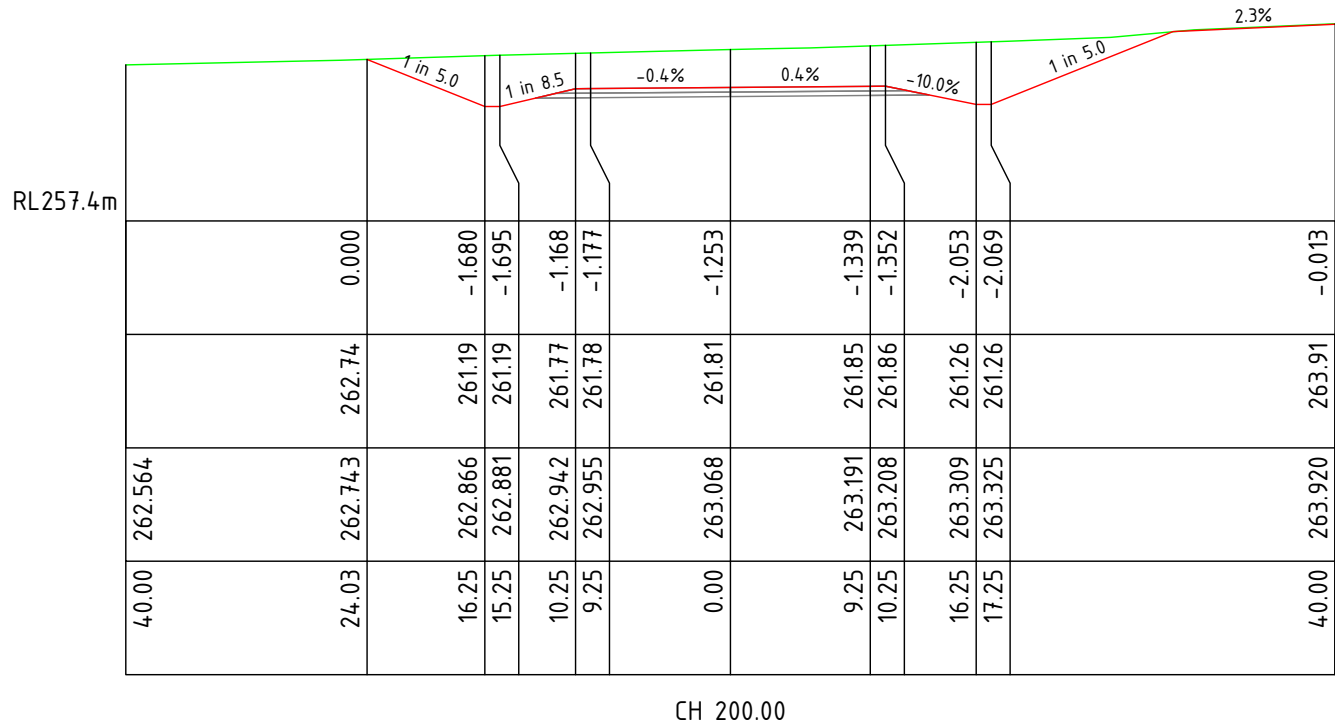
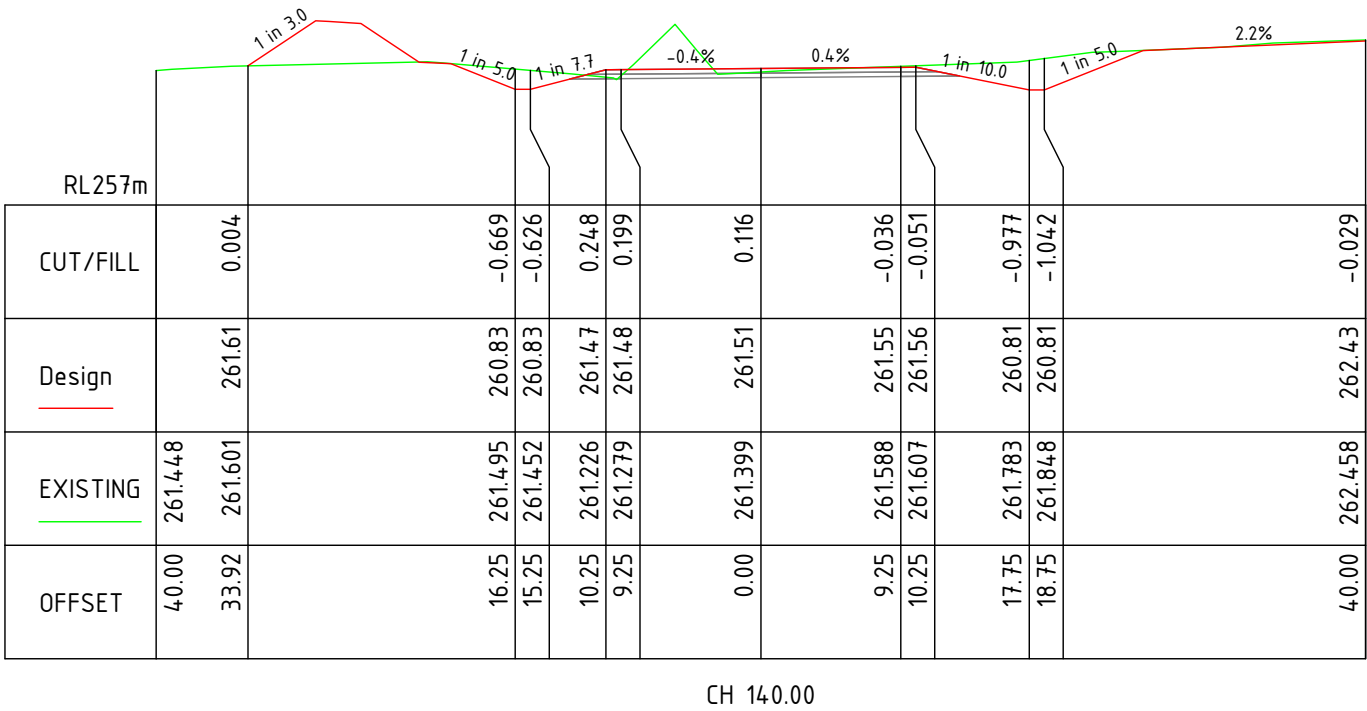
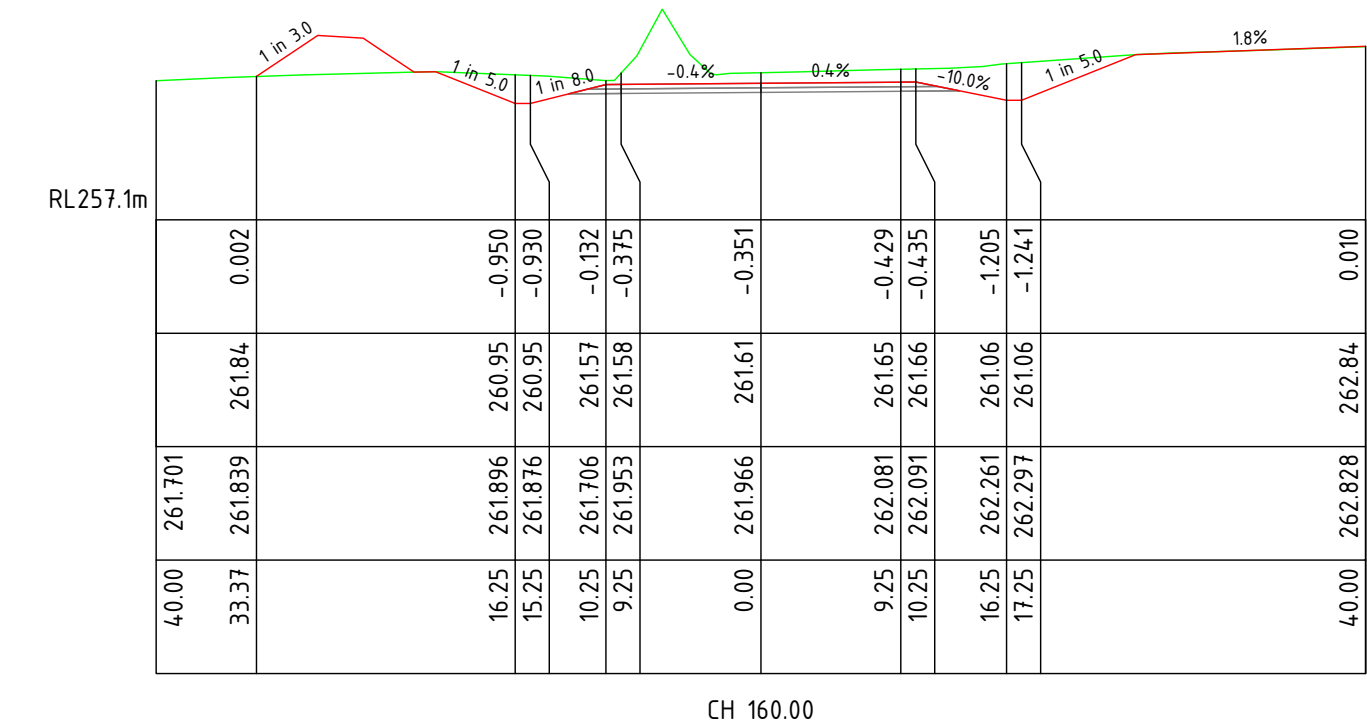
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DATUM: AHD PROJECTION: GDA2020 (ZONE 55) SURVEYED BY:	D	AMENDED FOR COUNCIL APPROVAL	25-08-23				SHEET TITLE: DRAG STRIP PLAN & LONG SECTION (-20 - 340)	
	C	FOR COUNCIL APPROVAL	22-06-23					
	B	FOR REVIEW	19-06-23					
	A	DRAFT - FOR COUNCIL COMMENT	17-04-23					

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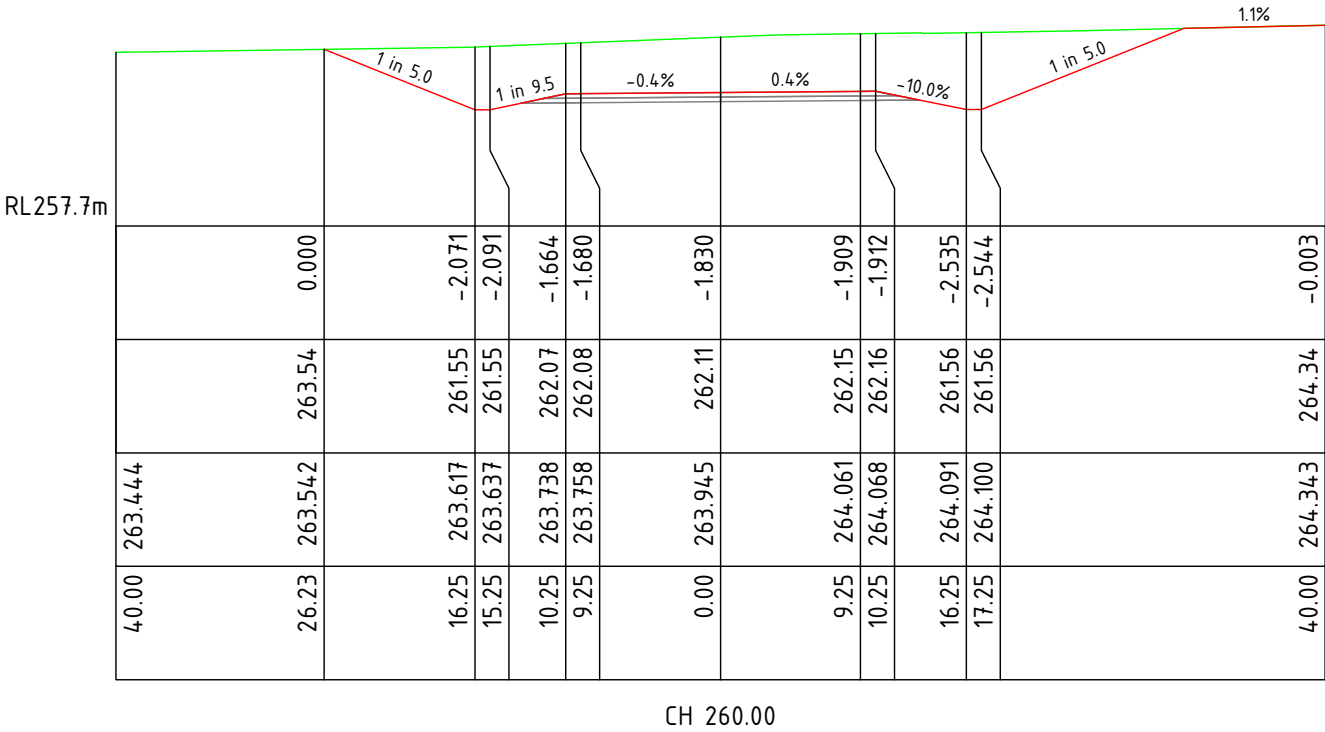
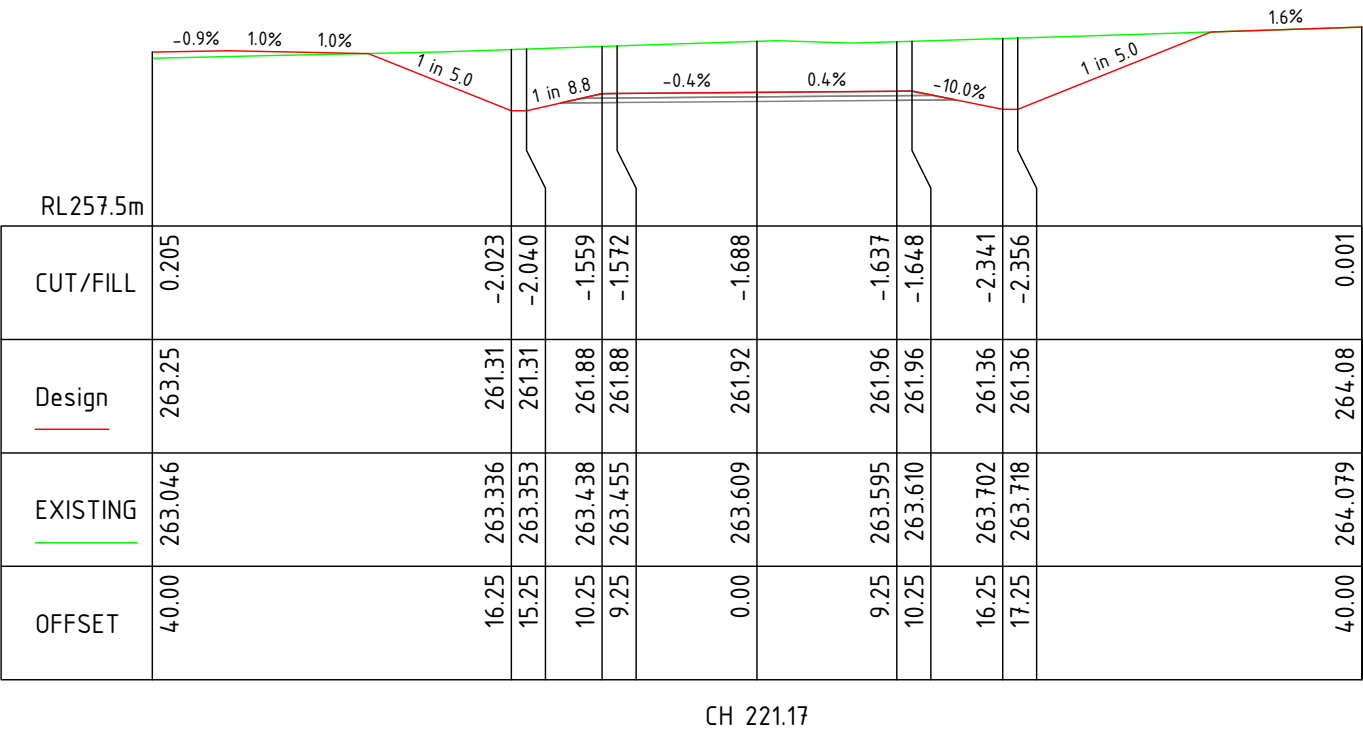
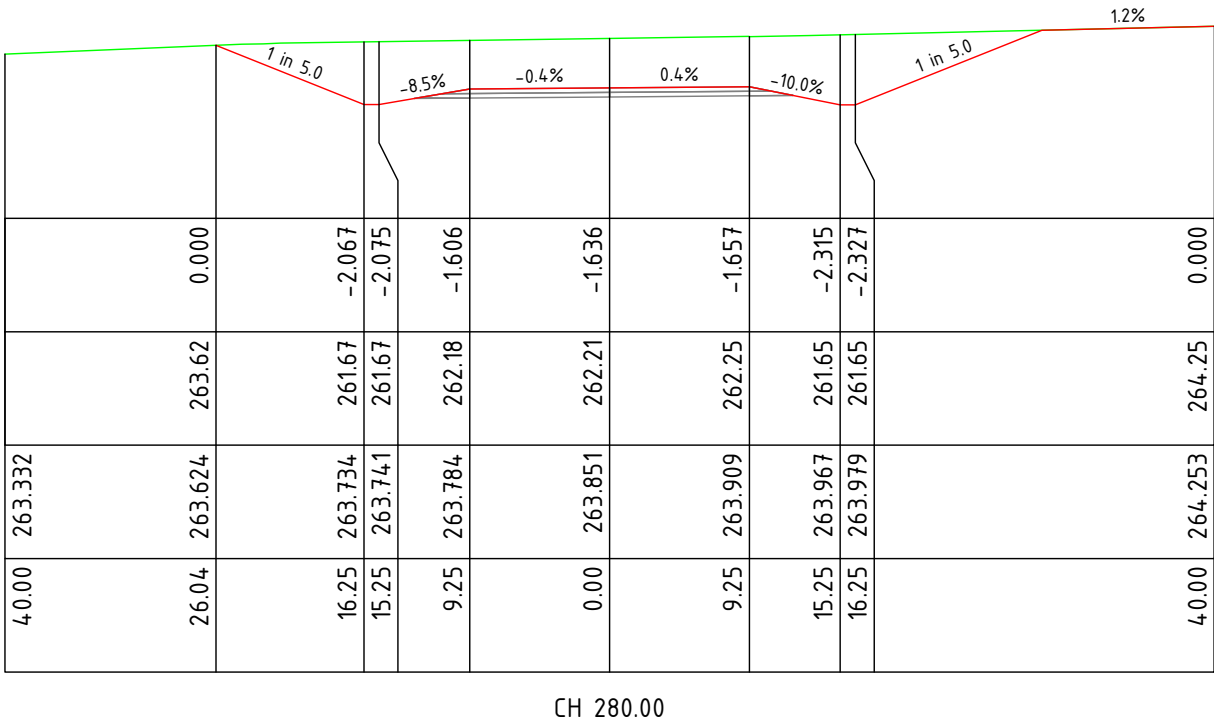
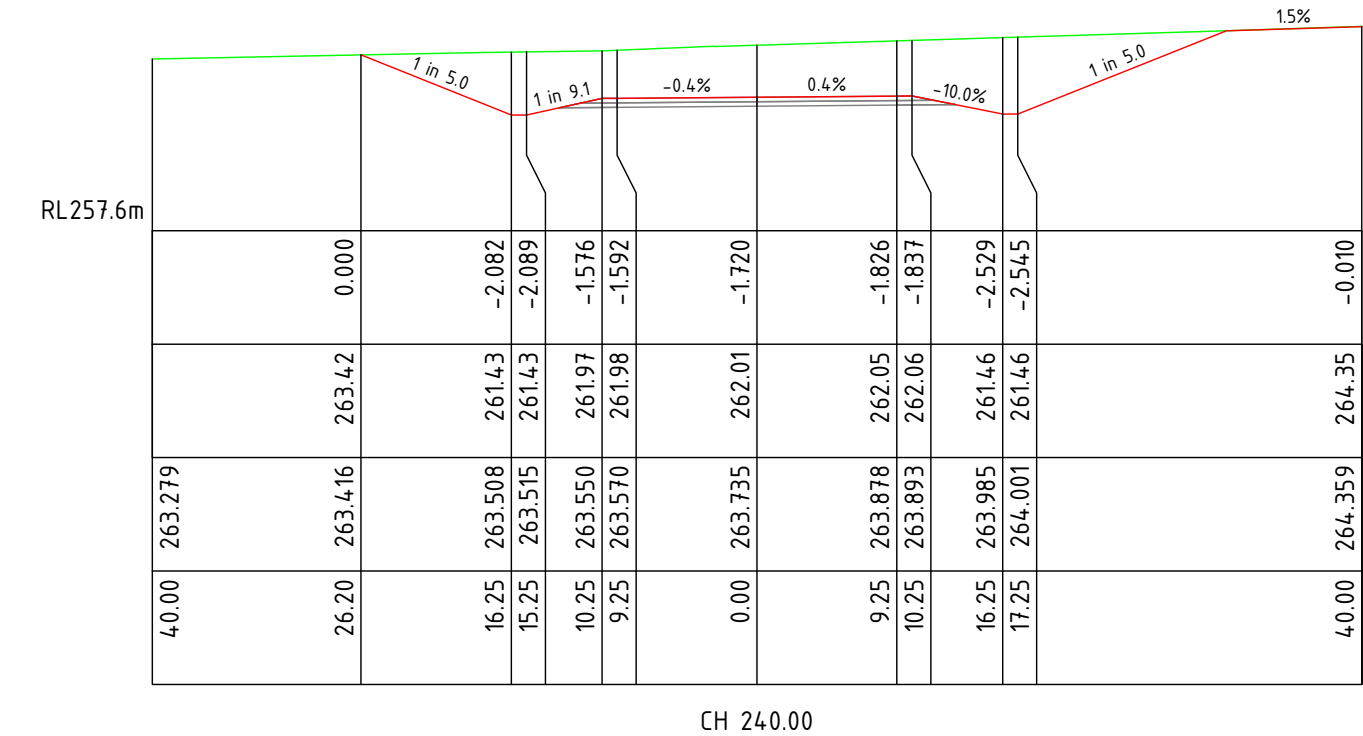


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	D	AMENDED FOR COUNCIL APPROVAL	25-08-23				SHEET TITLE: DRAG STRIP CROSS SECTIONS (-20 - 40)	
	C	FOR COUNCIL APPROVAL	22-06-23					
	B	FOR REVIEW	19-06-23					
	A	DRAFT - FOR COUNCIL COMMENT	17-04-23					

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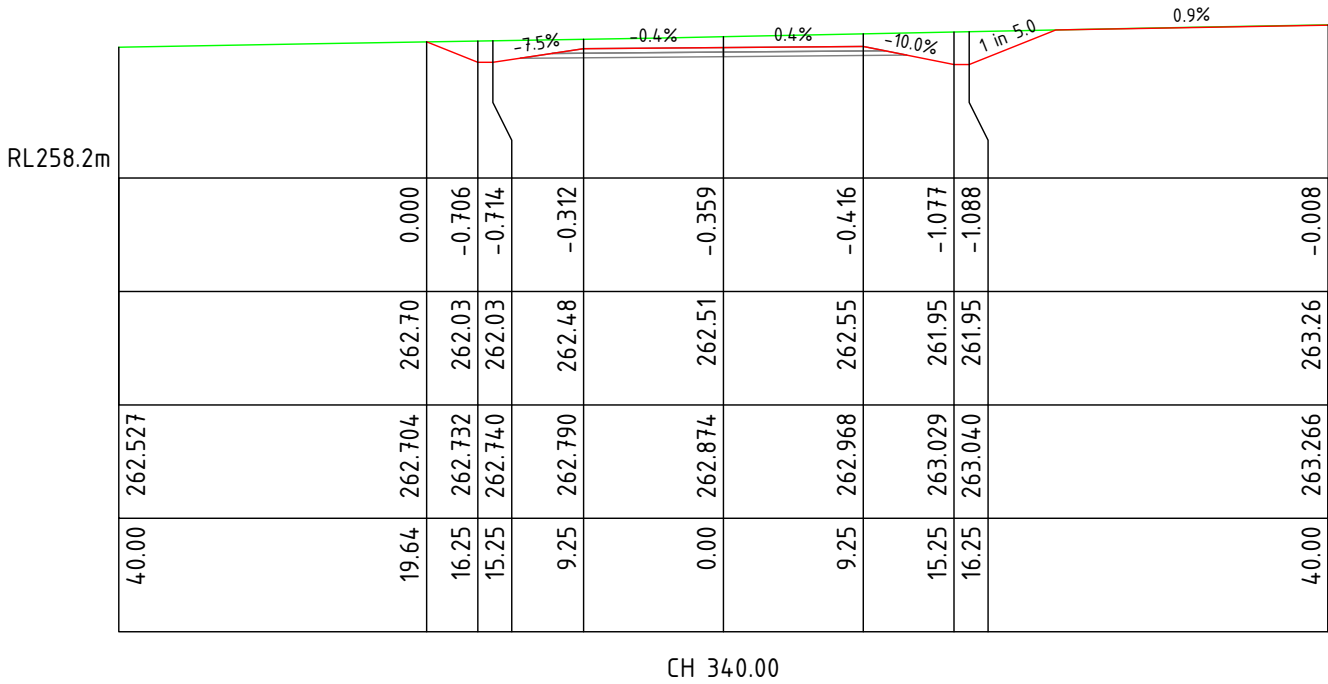
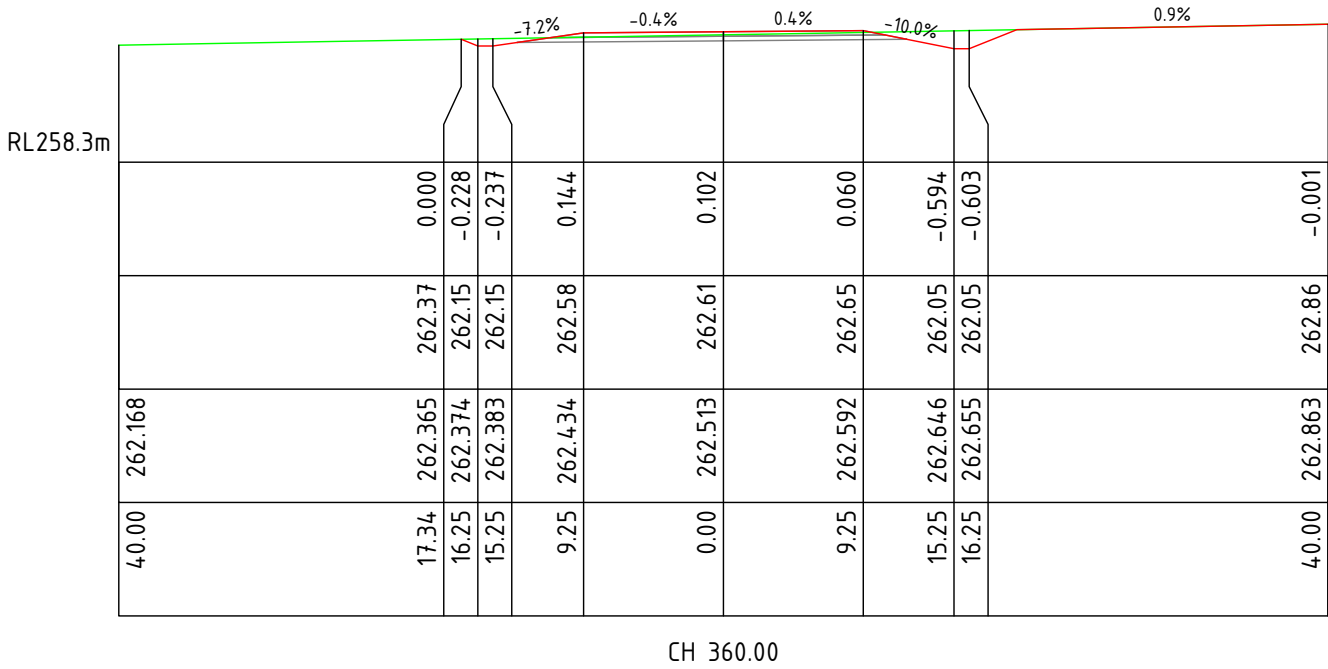
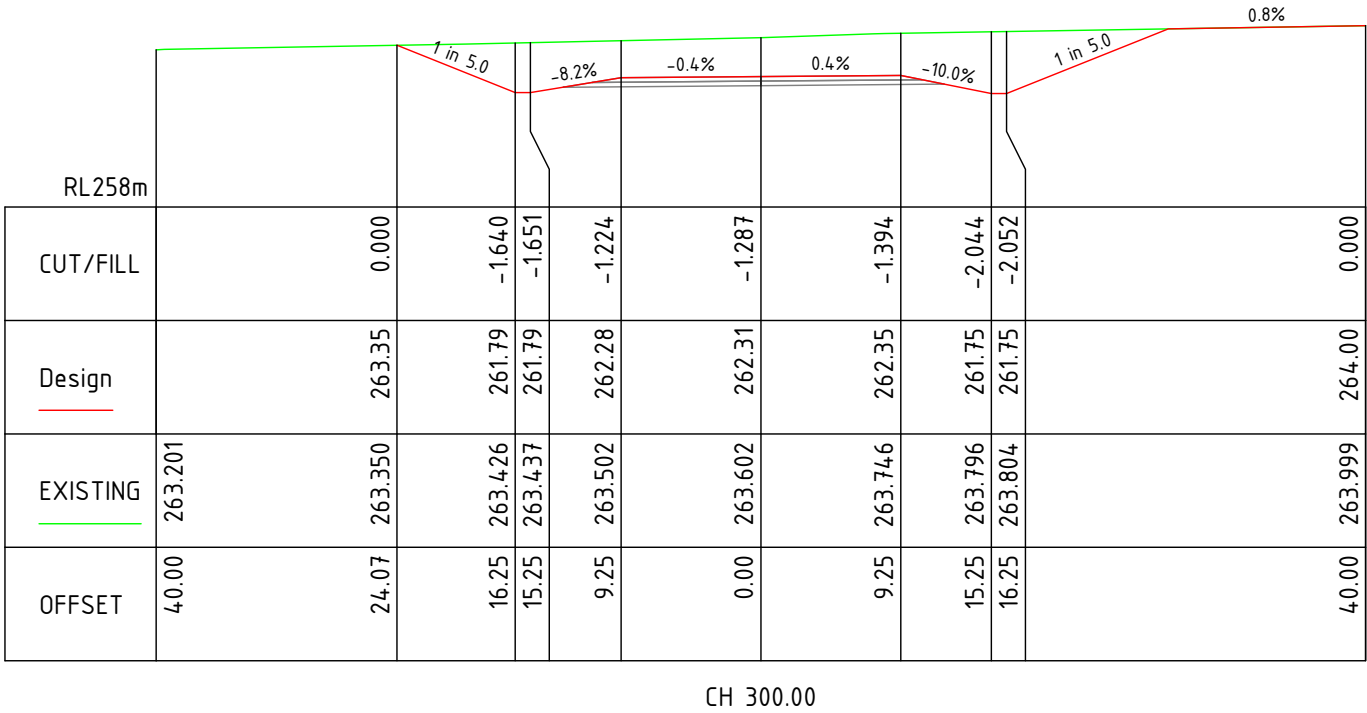
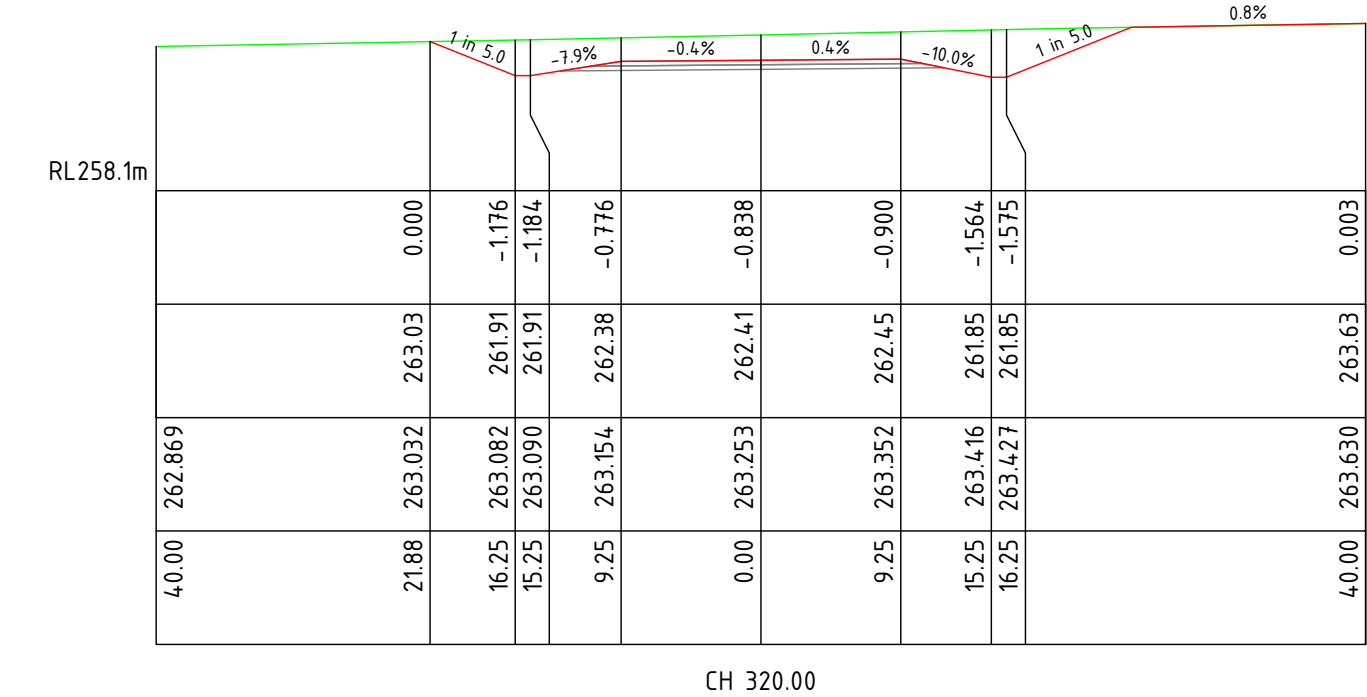


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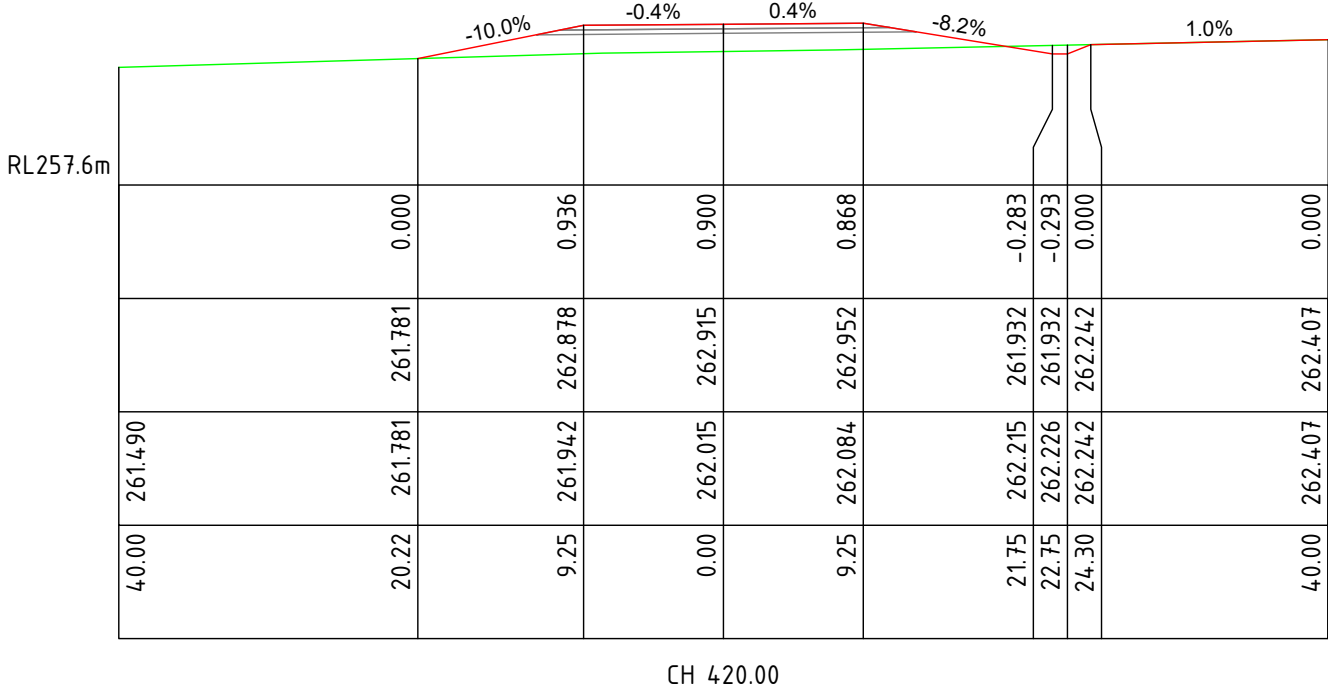
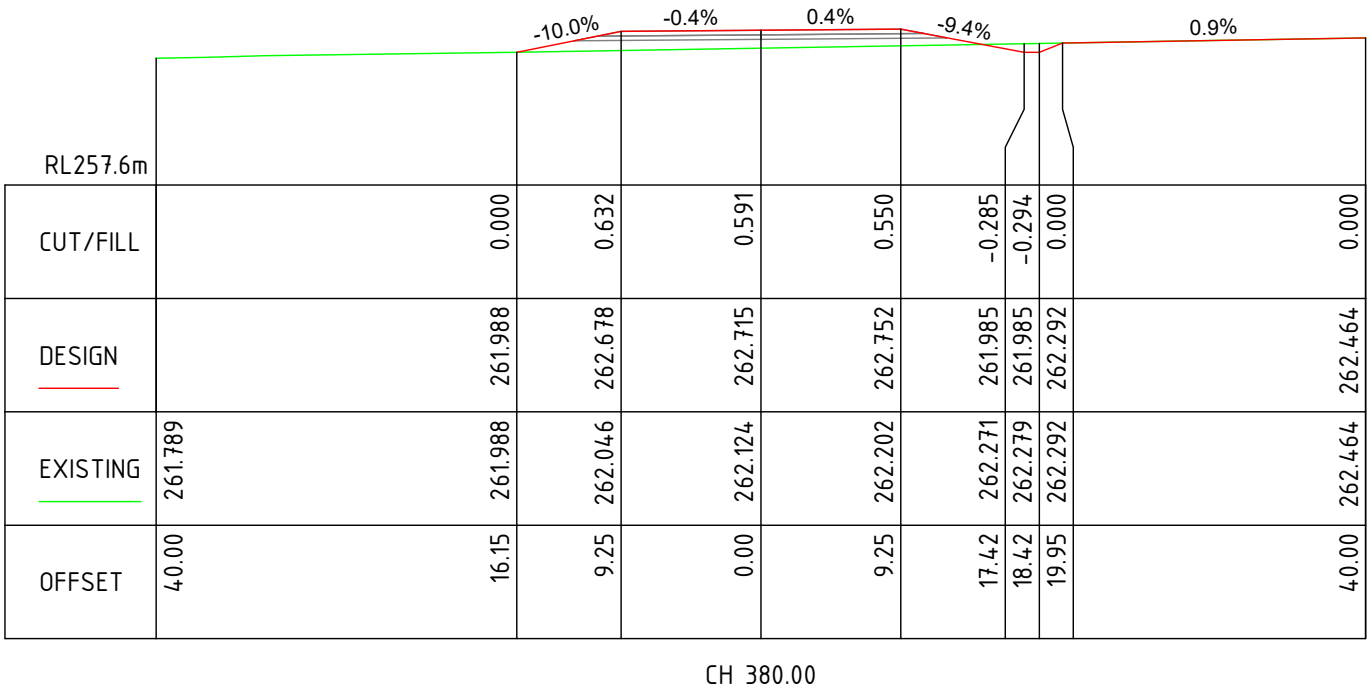
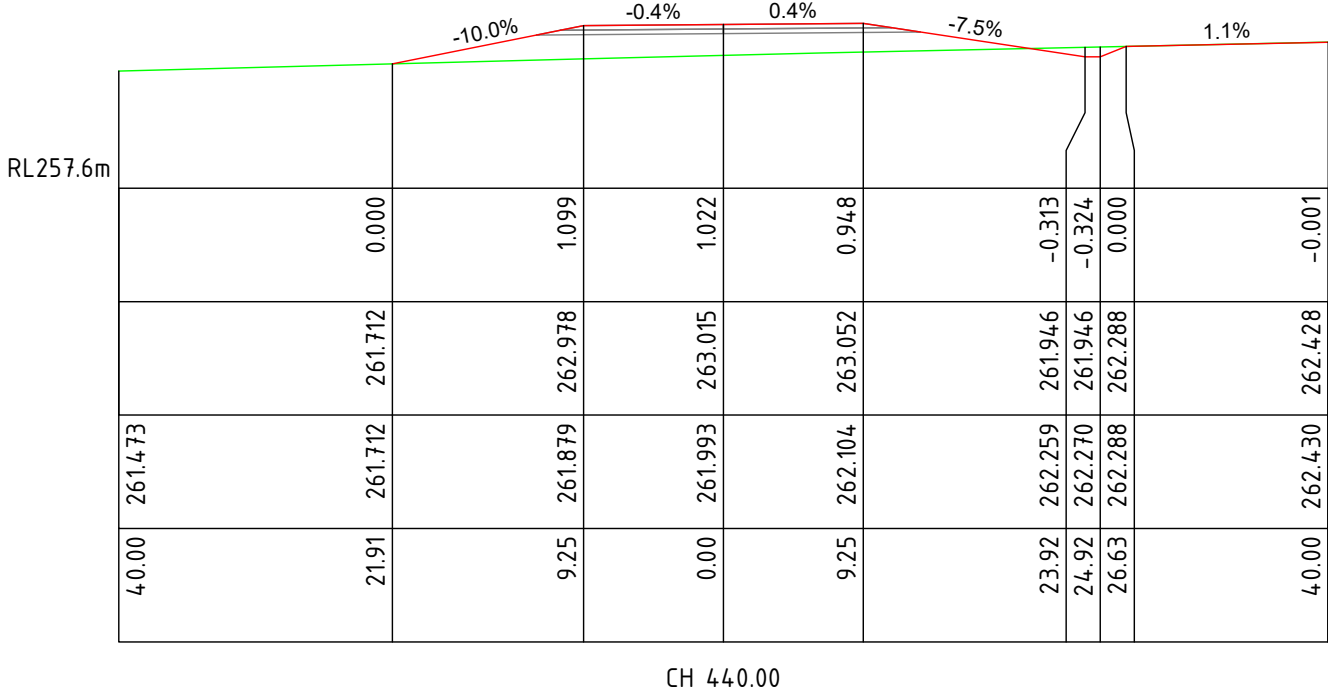
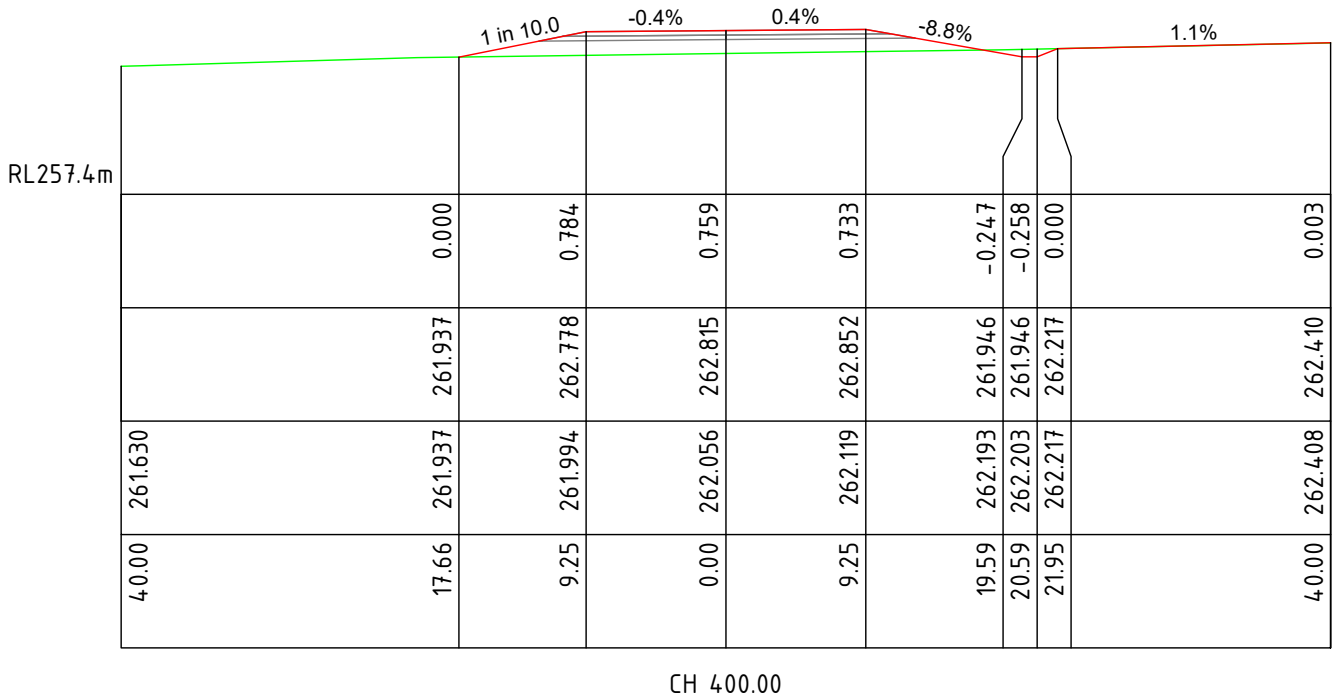


SCALE: 1:500H 1:250V DATUM: AHD PROJECTION: GDA2020 (ZONE 55) SURVEYED BY:	REV.	DESCRIPTION	DATE	 REGIONAL ENGINEERING SERVICES PO BOX 702 COOTAMUNDRA NSW 2590 PHONE 0407 351 404	CLIENT: BLAND SHIRE COUNCIL	PROJECT: WESTERN WHEELERS MOTORSPORT PARK	SHEET No. 9	SHEETS 35
	D	AMENDED FOR COUNCIL APPROVAL	25-08-23				SHEET TITLE: DRAG STRIP CROSS SECTIONS (221.17 - 280)	
	C	FOR COUNCIL APPROVAL	22-06-23					
	B	FOR REVIEW	19-06-23					
	A	DRAFT - FOR COUNCIL COMMENT	17-04-23					

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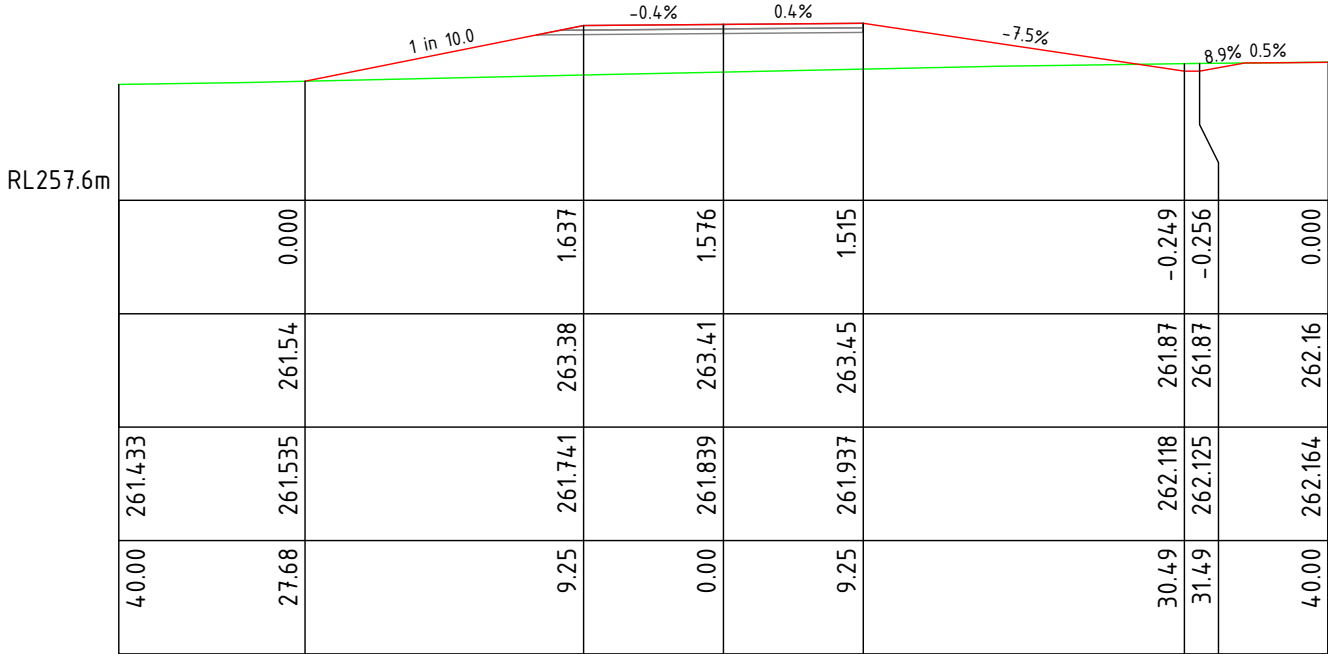


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	D	AMENDED FOR COUNCIL APPROVAL	25-08-23				SHEET TITLE: DRAG STRIP CROSS SECTIONS (380 - 440)	
	C	FOR COUNCIL APPROVAL	22-06-23					
	B	FOR REVIEW	19-06-23					
	A	DRAFT - FOR COUNCIL COMMENT	17-04-23					

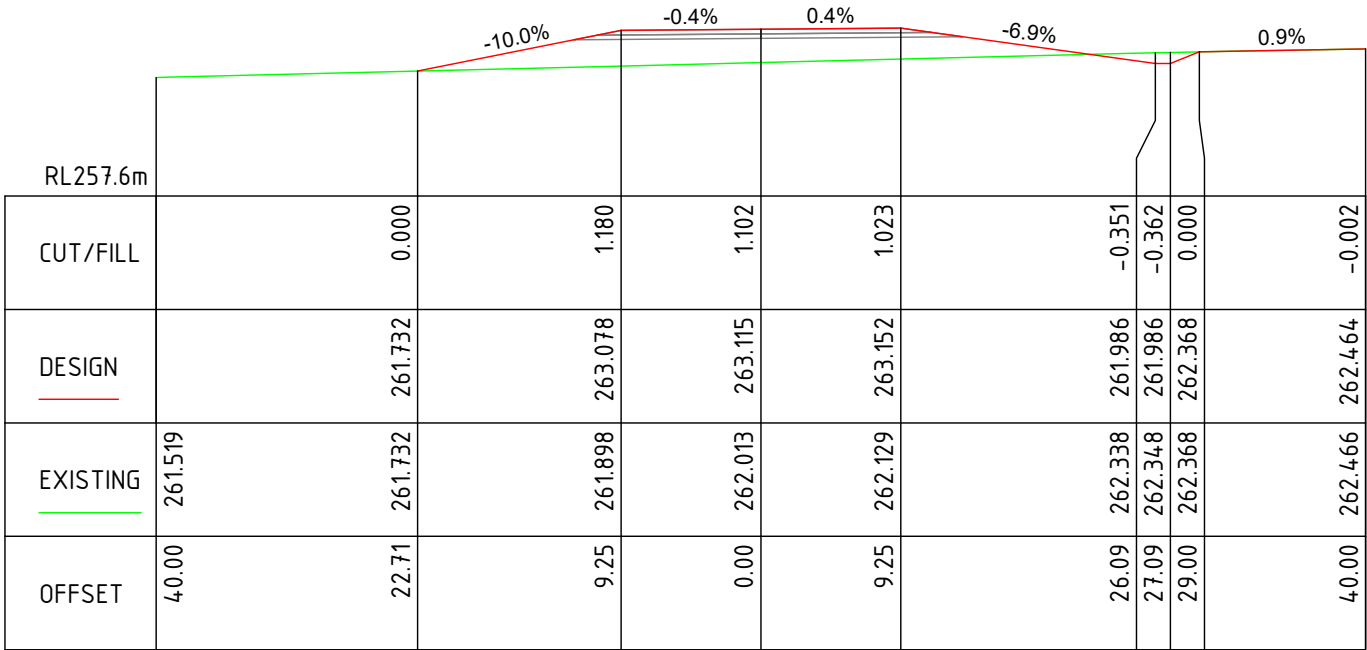
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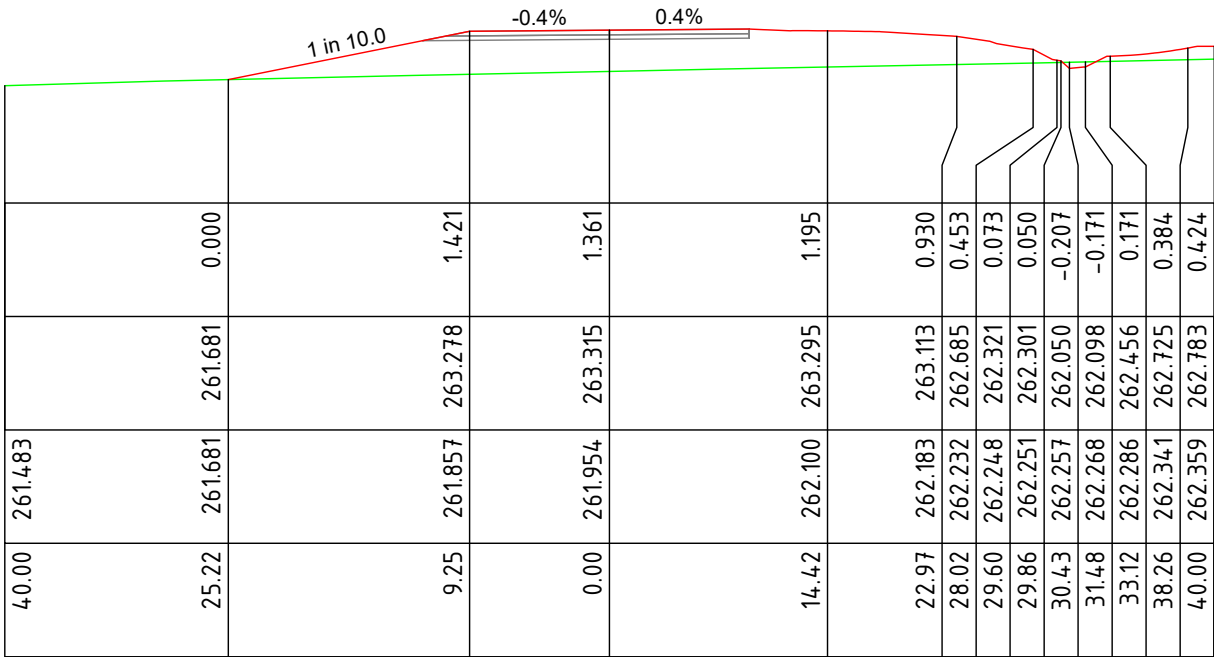
CH 480.00



CH 520.00



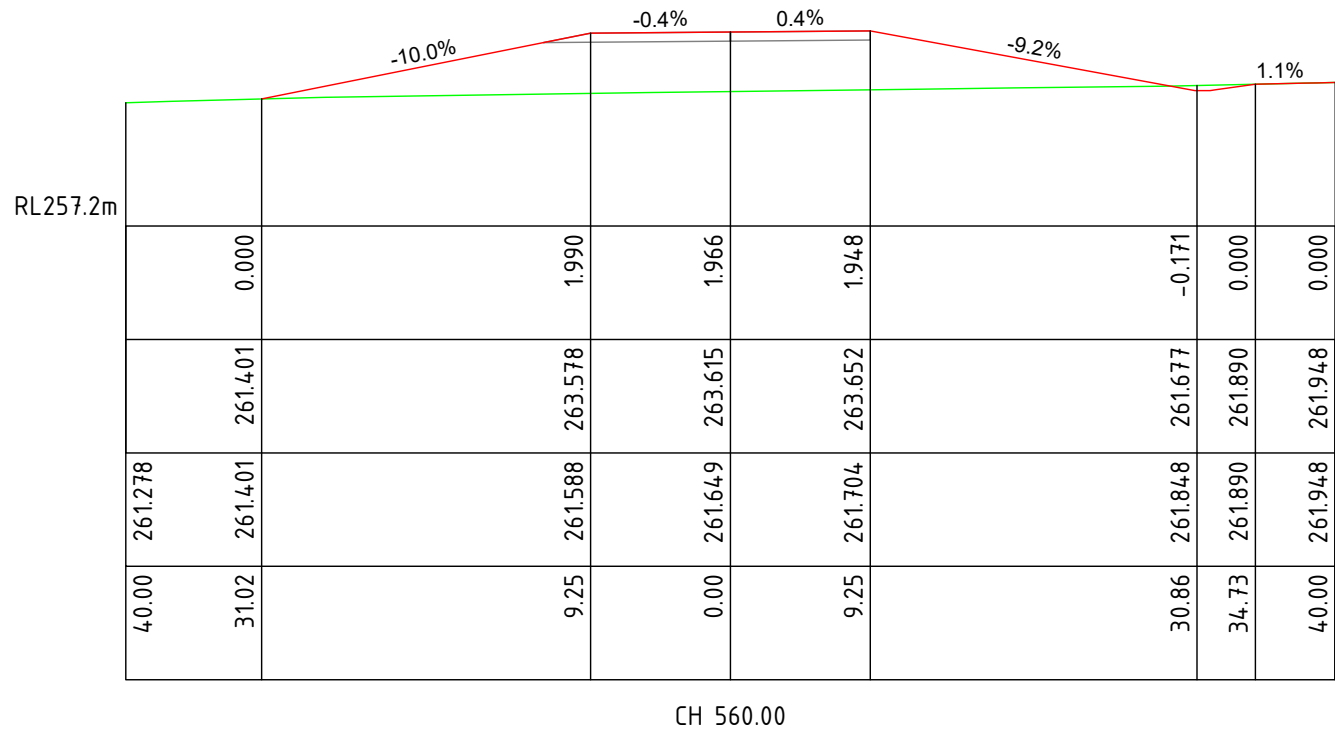
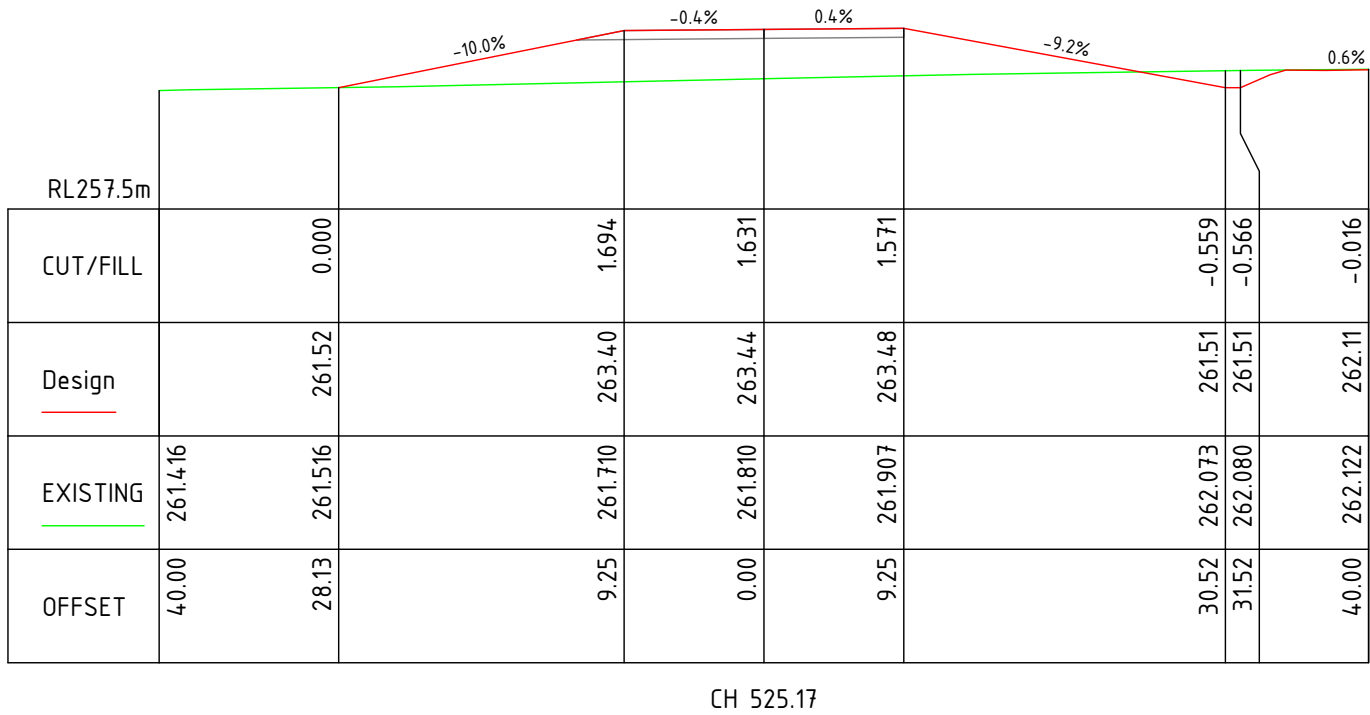
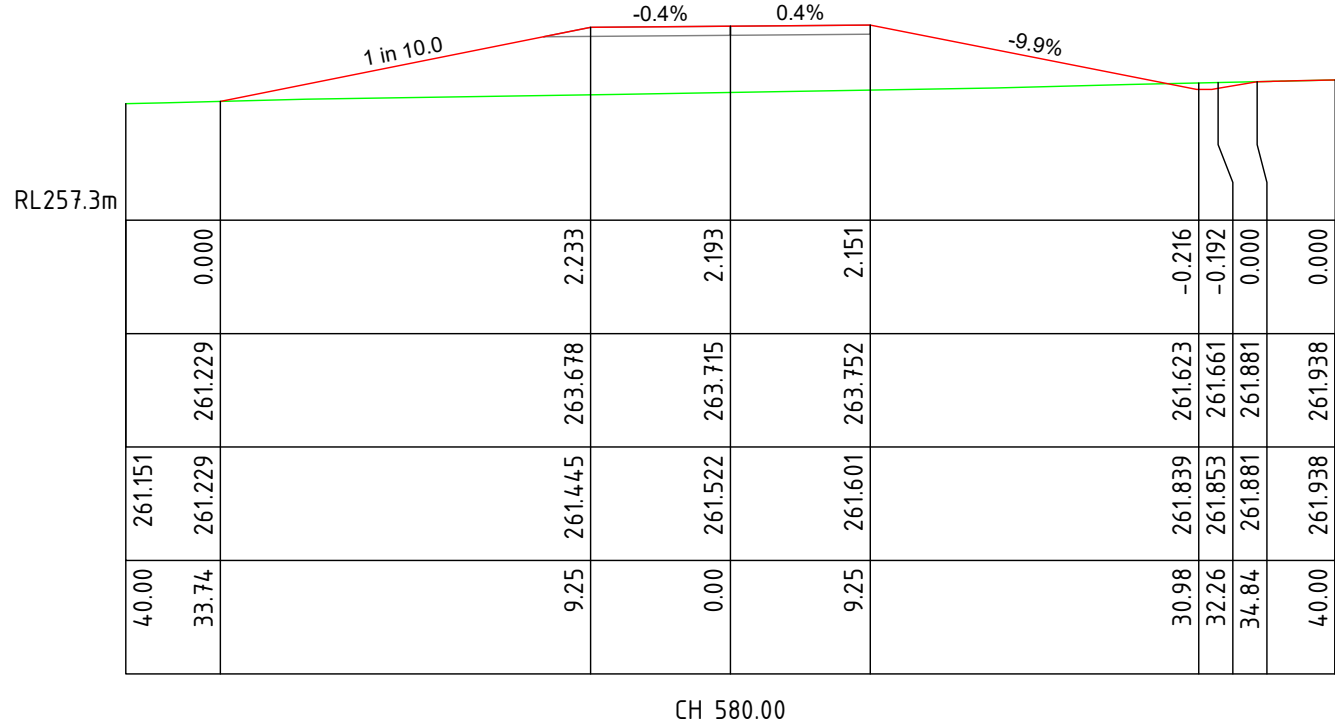
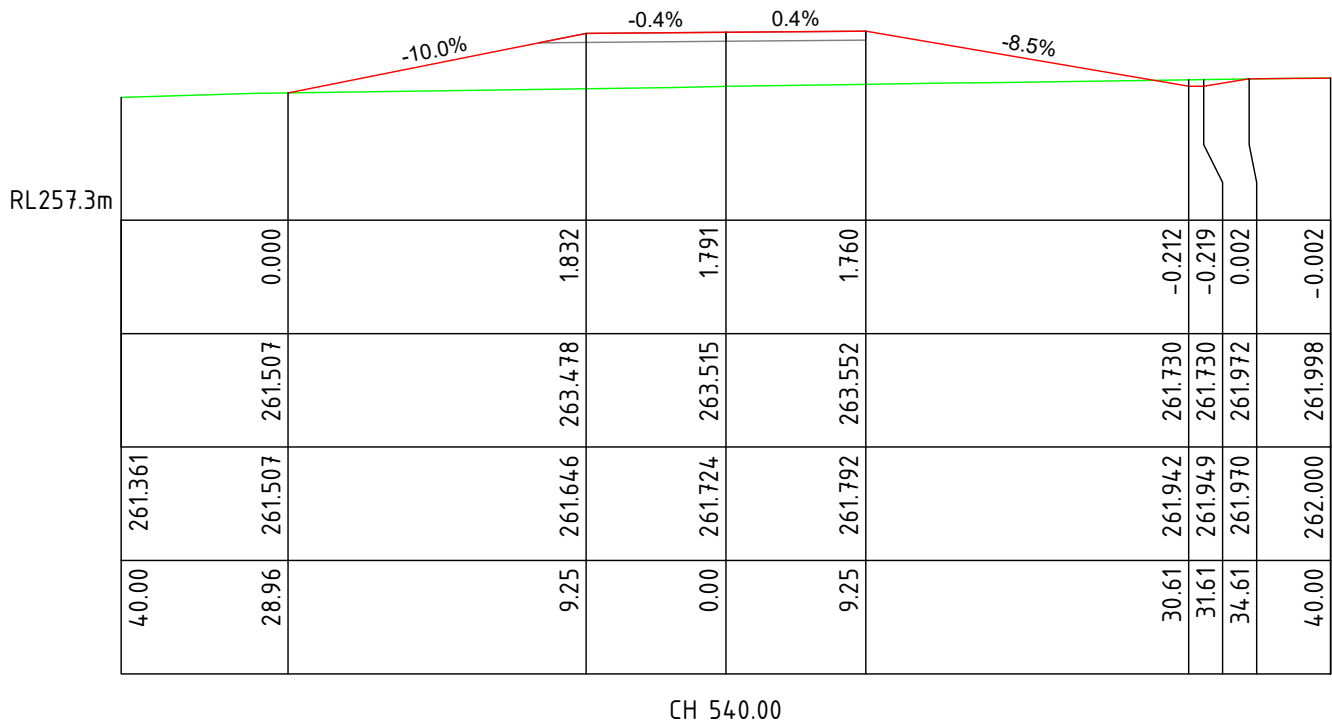
CH 460.00



CH 500.00

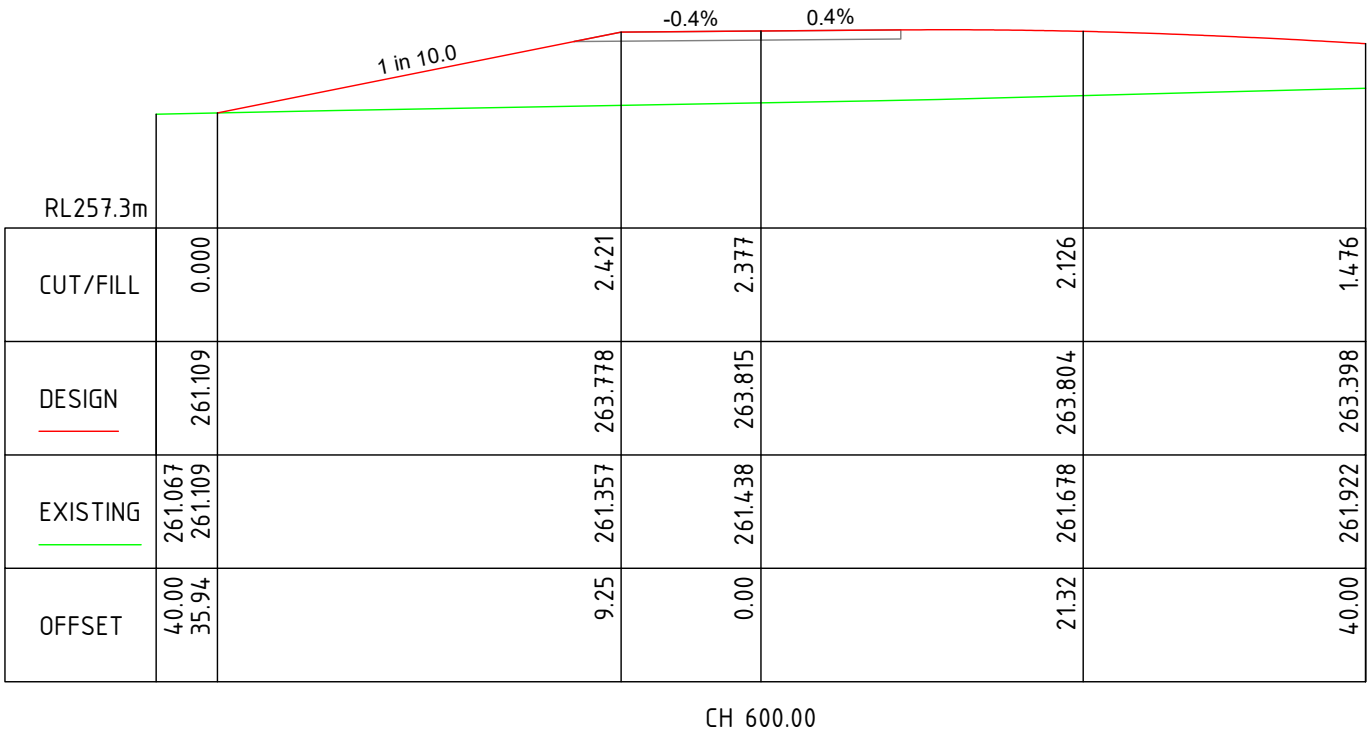
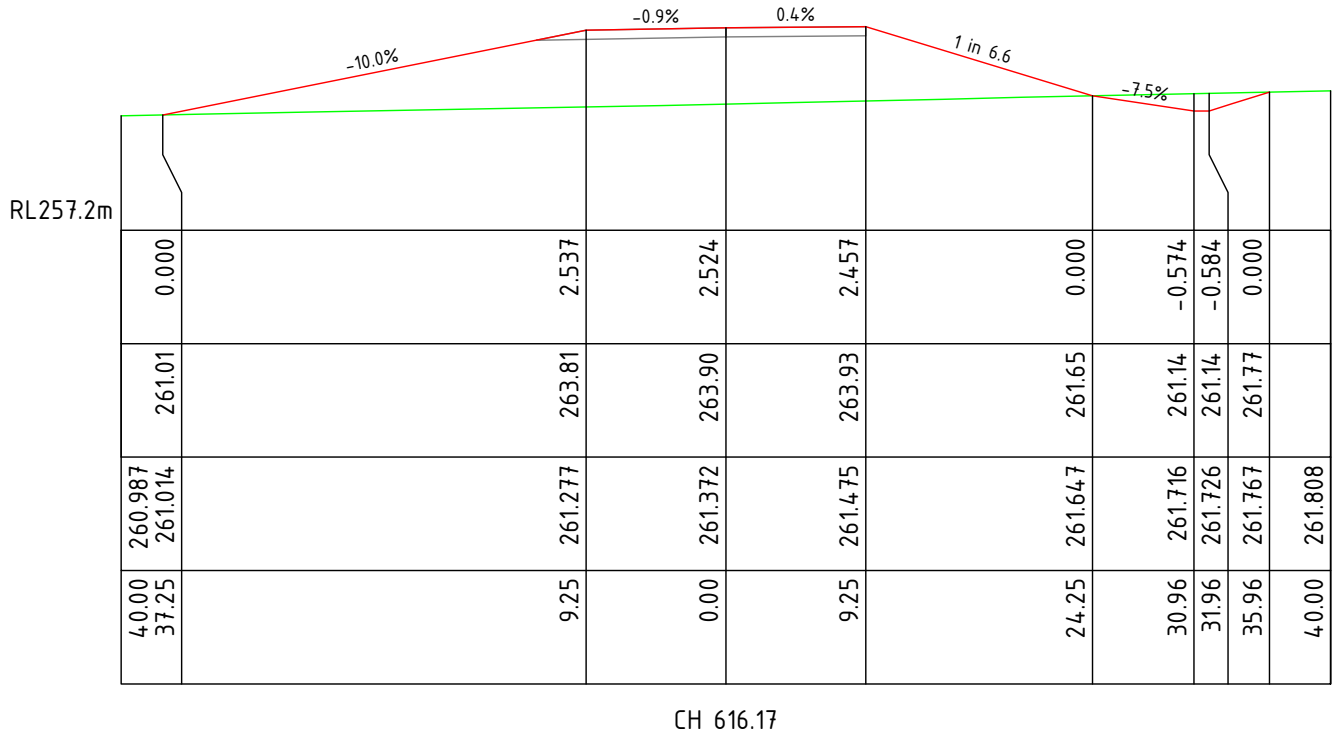
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	D	AMENDED FOR COUNCIL APPROVAL	25-08-23				SHEET TITLE: DRAG STRIP CROSS SECTIONS (460 - 520)	
	C	FOR COUNCIL APPROVAL	22-06-23					
	B	FOR REVIEW	19-06-23					
	A	DRAFT - FOR COUNCIL COMMENT	17-04-23					

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SCALE: 1:500H 1:250V DATUM: AHD PROJECTION: GDA2020 (ZONE 55) SURVEYED BY:	REV. DESCRIPTION DATE	REGIONAL engineering SERVICES REGIONAL ENGINEERING SERVICES PO BOX 702 COOTAMUNDRA NSW 2590 PHONE 0407 351 404	CLIENT: BLAND SHIRE COUNCIL	PROJECT: WESTERN WHEELERS MOTORSPORT PARK	SHEET No. 13	SHEETS 35
					SHEET TITLE: DRAG STRIP CROSS SECTIONS (525.17 - 580)	

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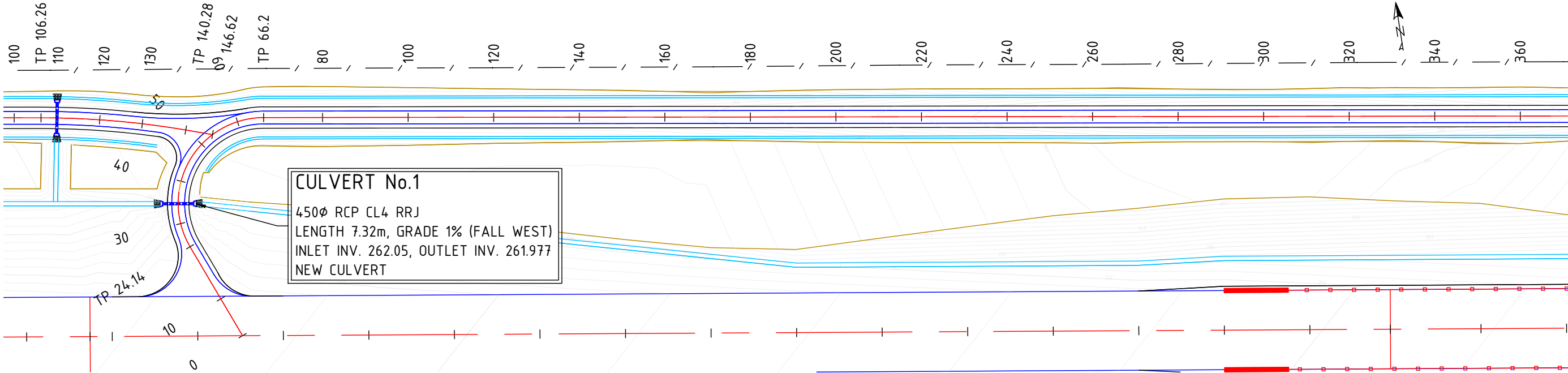
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DATUM: AHD PROJECTION: GDA2020 (ZONE 55) SURVEYED BY:	D	AMENDED FOR COUNCIL APPROVAL	25-08-23	SHEET TITLE: DRAG STRIP CROSS SECTIONS (600 - 616.17)					
	C	FOR COUNCIL APPROVAL	22-06-23						
	B	FOR REVIEW	19-06-23						
	A	DRAFT - FOR COUNCIL COMMENT	17-04-23						

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SCALE:	1:1000H 1:100V	REV.	DESCRIPTION	DATE	 REGIONAL engineering SERVICES REGIONAL ENGINEERING SERVICES PO BOX 702 COOTAMUNDRA NSW 2590 PHONE 0407 351 404	CLIENT:	BLAND SHIRE COUNCIL	PROJECT:	WESTERN WHEELERS MOTORSPORT PARK	SHEET No. 15	SHEETS 35
DATUM:	AHD	D	AMENDED FOR COUNCIL APPROVAL	25-08-23		SHEET TITLE: ROAD 2 PLAN & LONG SECTION (0 - 360)					
PROJECTION:	GDA2020 (ZONE 55)	C	FOR COUNCIL APPROVAL	22-06-23							
SURVEYED BY:		B	FOR REVIEW	19-06-23							
		A	DRAFT - FOR COUNCIL COMMENT	17-04-23							

CHAINAGE	0.00	10.71	13.24	15.58	15.71	20.00	20.71	24.14	27.10	30.00	34.70	40.00	42.73	50.00	53.40	60.00	62.87	66.20	74.19	80.00		100.00		120.00		140.00		160.00		170.00		180.00		200.00		220.00		240.00		249.96		260.00		280.00		297.00	299.96	300.00		320.00		340.00		349.96		360.00									
	262.000	262.069	262.086	262.101	262.102	262.129	262.134	262.156	262.177	262.200	262.246	262.301	262.325	262.401	262.440	262.502	262.519	262.534	262.561	262.559		262.552	262.519	262.754		262.521	262.814		262.532	262.923	263.015	263.131		263.145	263.437		263.535	263.792		263.892	264.148	264.072	264.325	264.257	264.484		264.410	264.688		264.437	264.742	264.440	264.741	264.440	264.741		264.379	264.643		264.187	264.393	264.026	264.213	263.856	264.012
CUT / FILL	+1.263	+1.258	+1.248	+1.227	+1.225	+1.151	+1.134	+1.052	+0.978	+0.904	+0.775	+0.626	+0.556	+0.375	+0.297	+0.175	+0.139	+0.108	+0.064	+0.075		+0.142				+0.235		+0.293		+0.391		+0.472	+0.389		+0.292		+0.257		+0.256	+0.253	+0.227		+0.278		+0.305	+0.301	+0.301		+0.264		+0.206	+0.187	+0.156												
DESIGN CENTRELINE	263.263	263.327	263.334	263.328	263.327	263.280	263.268	263.208	263.155	263.104	263.021	262.927	262.881	262.776	262.737	262.677	262.658	262.642	262.625	262.634		262.694	262.754		262.814		262.923	263.015	263.131		263.437		263.792		264.148	264.325	264.484		264.688		264.742	264.741	264.741		264.643		264.393	264.213	264.012																
EXISTING CENTRELINE	262.000	262.069	262.086	262.101	262.102	262.129	262.134	262.156	262.177	262.200	262.246	262.301	262.325	262.401	262.440	262.502	262.519	262.534	262.561	262.559		262.552	262.519	262.754		262.521	262.814		262.532	262.923	263.015	263.131		263.145	263.437		263.535	263.792		263.892	264.148	264.072	264.325	264.257	264.484		264.410	264.688		264.437	264.742	264.440	264.741	264.440	264.741		264.379	264.643		264.187	264.393	264.026	264.213	263.856	264.012
H GEOM EXIST. CL	L=24.14 B=338°29'10"		L=42.07 R=20.00																		L=493.75 B=98°59'44"																																												
R.L. 249.9																																																																	



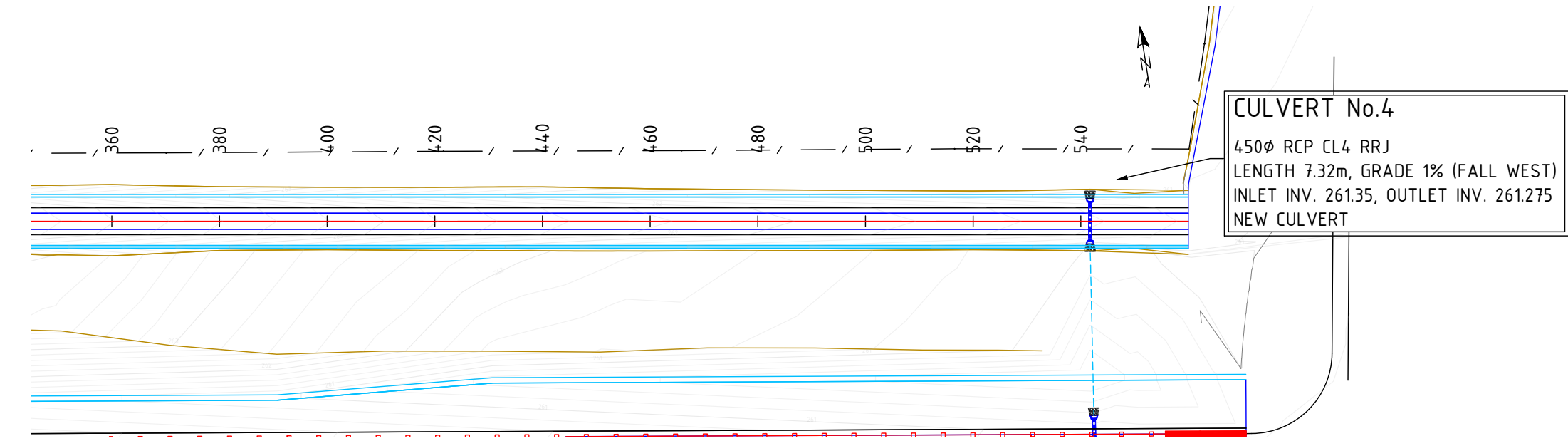
NOTE: INSTALL ROCK RIPRAP ON BOTH ENDS OF ALL CULVERTS TO DETAIL ON SHEET 9.

CULVERT No.1

450Ø RCP CL4 RRJ
LENGTH 7.32m, GRADE 1% (FALL WEST)
INLET INV. 262.05, OUTLET INV. 261.977
NEW CULVERT

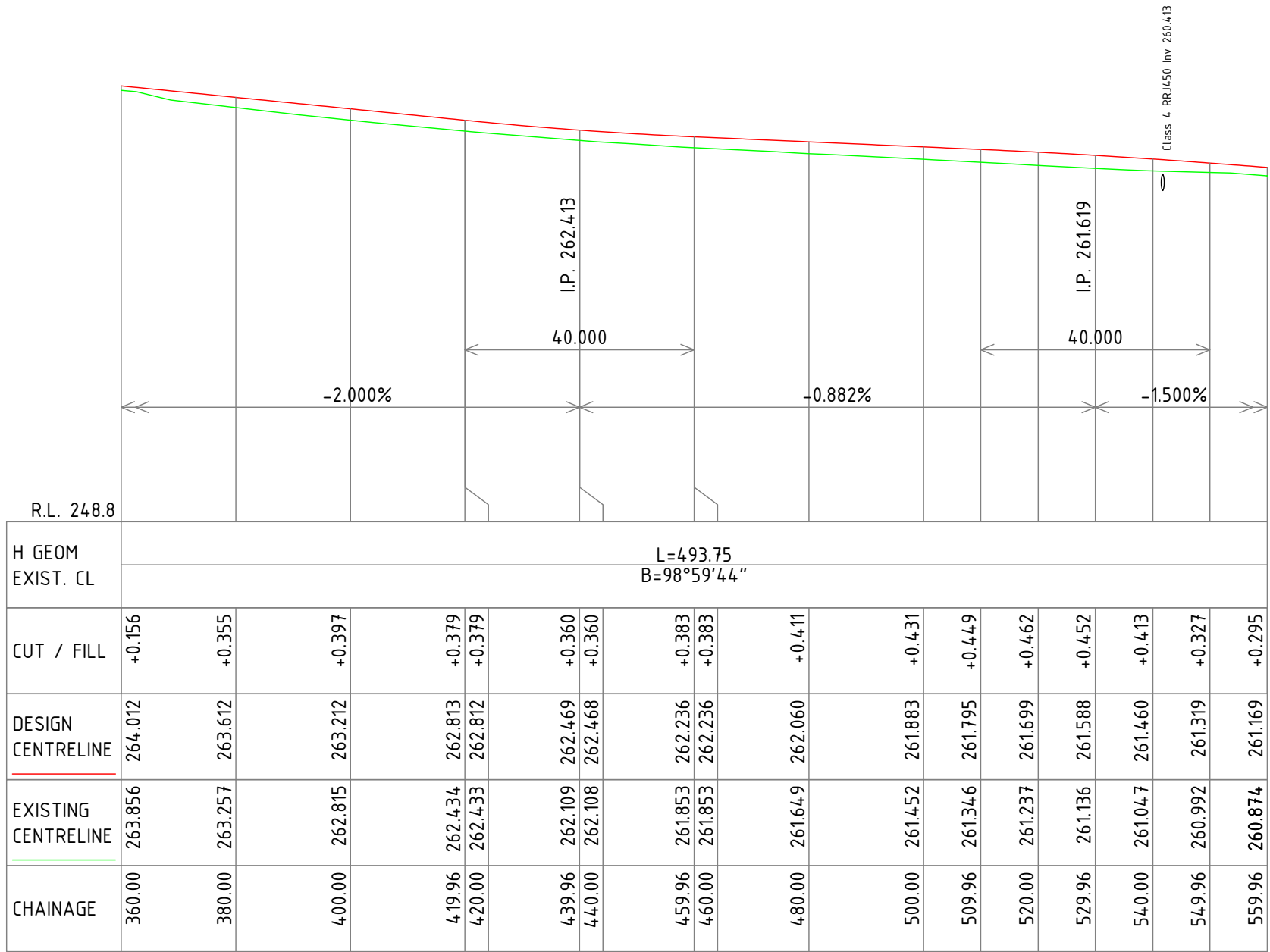
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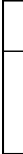
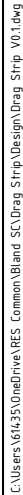
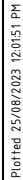


CULVERT No.4

450Ø RCP CL4 RRJ
LENGTH 7.32m, GRADE 1% (FALL WEST)
INLET INV. 261.35, OUTLET INV. 261.275
NEW CULVERT



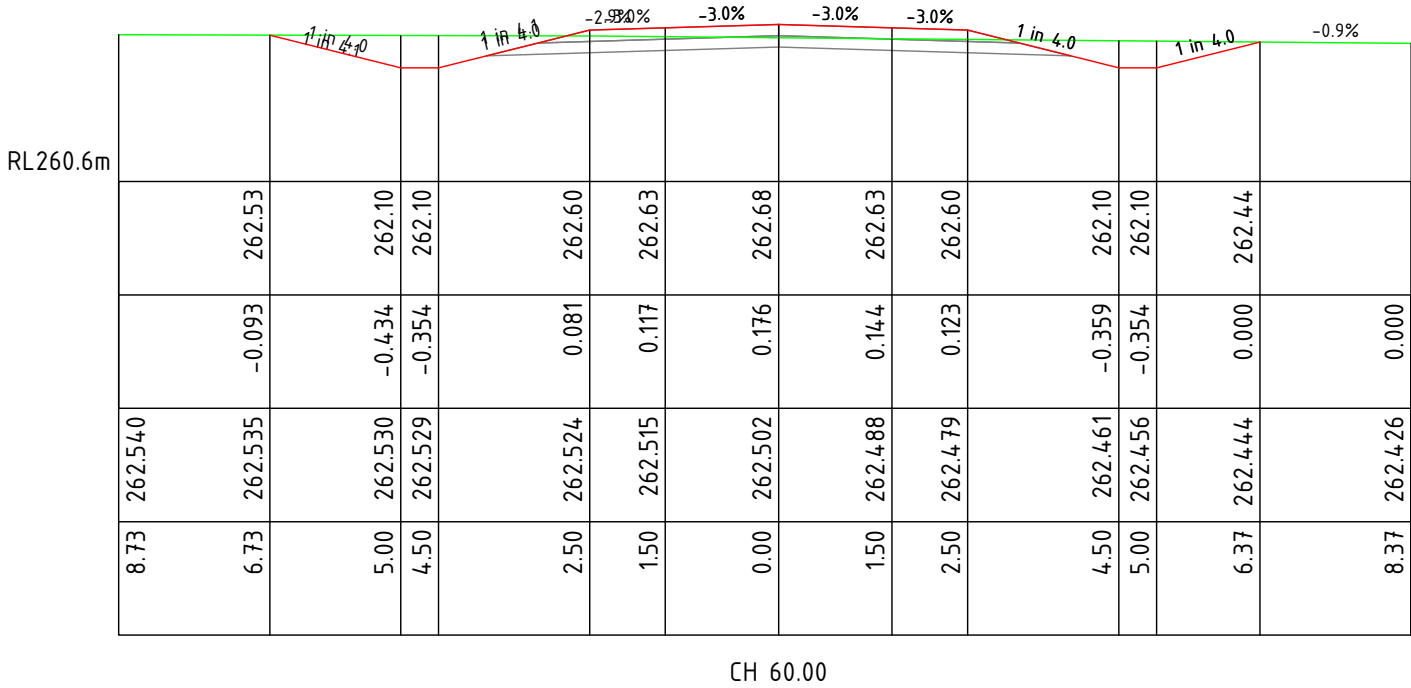
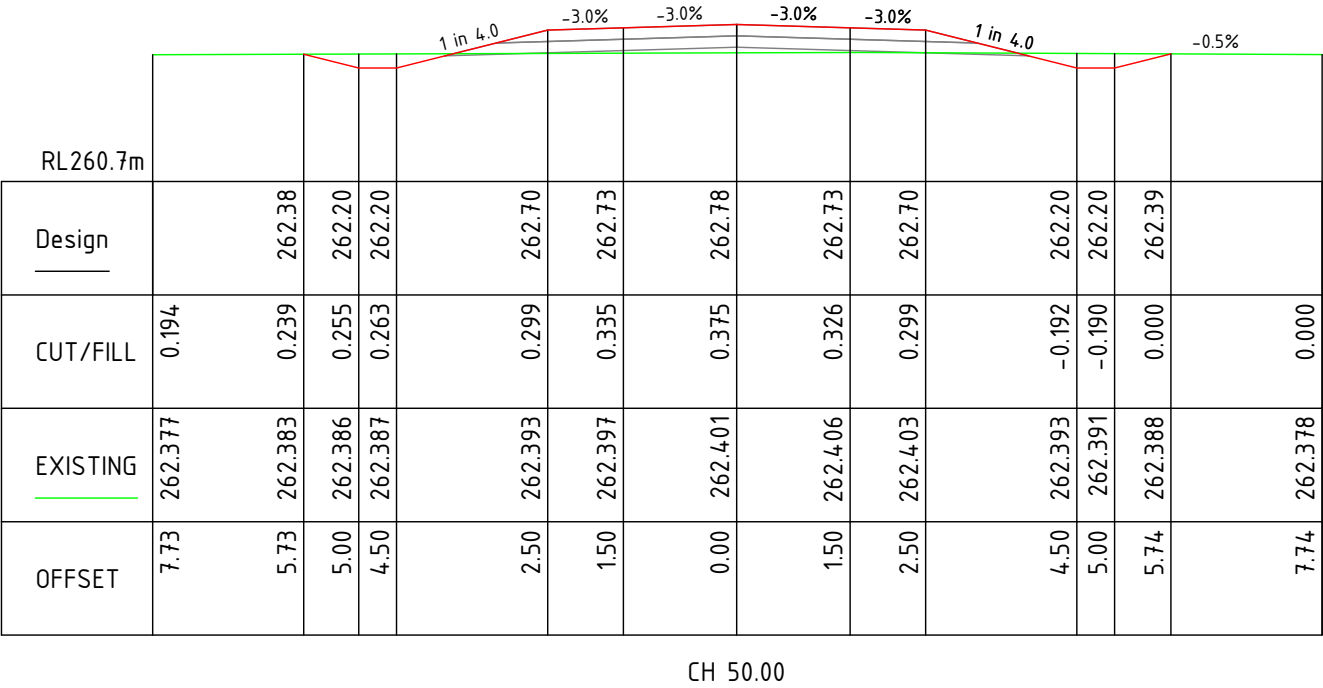
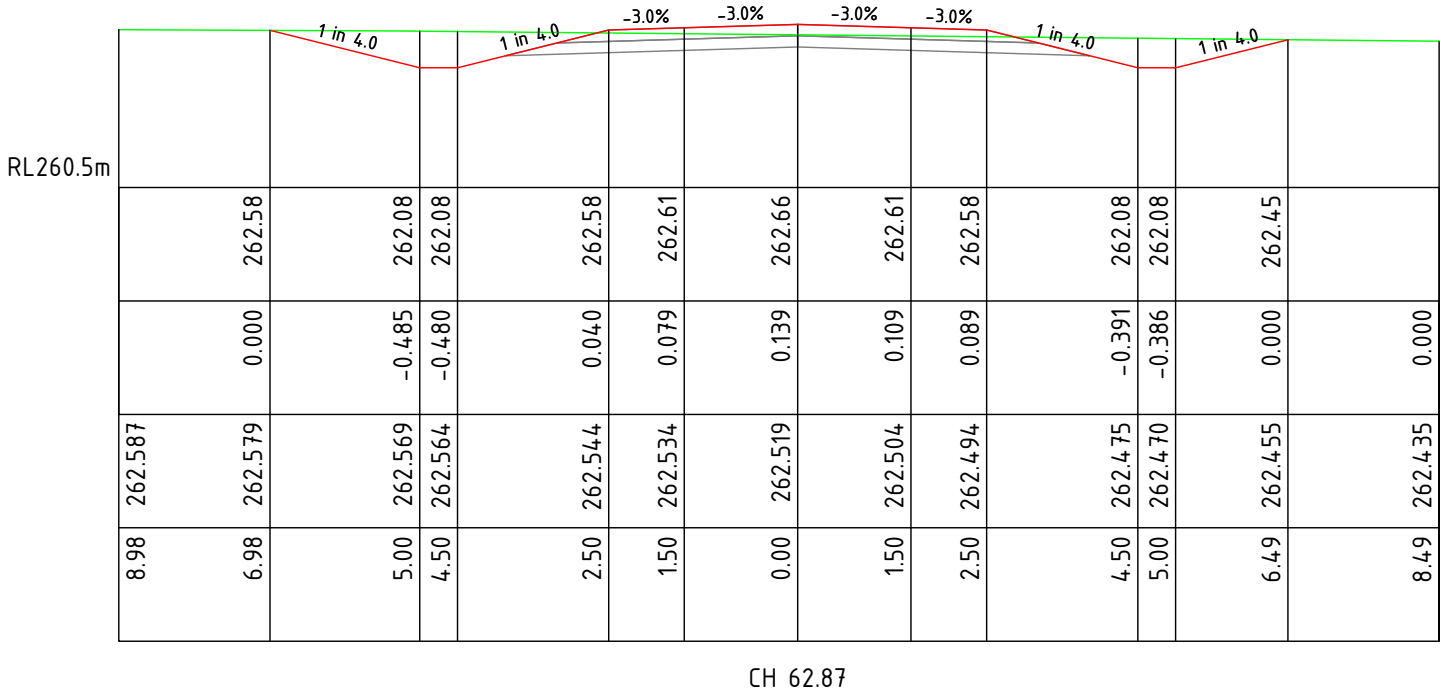
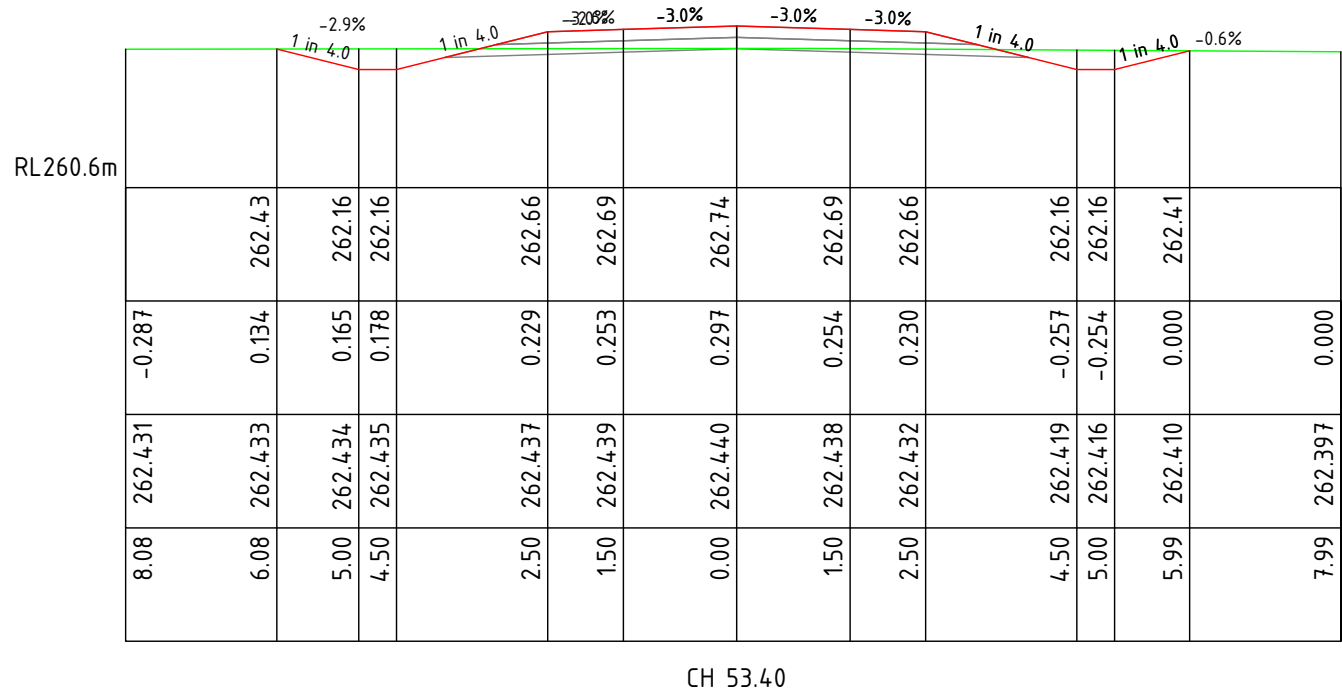
SCALE: 1:1000H 1:100V		REV.	DESCRIPTION	DATE	 REGIONAL engineering SERVICES REGIONAL ENGINEERING SERVICES PO BOX 702 COOTAMUNDRA NSW 2590 PHONE 0407 351 404	CLIENT: BLAND SHIRE COUNCIL	PROJECT: WESTERN WHEELERS MOTORSPORT PARK	SHEET No. 16	SHEETS 35
DATUM: AHD PROJECTION: GDA2020 (ZONE 55) SURVEYED BY:		D	AMENDED FOR COUNCIL APPROVAL	25-08-23				SHEET TITLE: ROAD 2 PLAN & LONG SECTION (360 - 560)	
		C	FOR COUNCIL APPROVAL	22-06-23					
		B	FOR REVIEW	19-06-23					
		A	DRAFT - FOR COUNCIL COMMENT	17-04-23					



SCALE:	1:100	REV.	DESCRIPTION	DATE	 REGIONAL ENGINEERING SERVICES PO BOX 702 COOTAMUNDRA NSW 2590 PHONE 0407 351 404	CLIENT: BLAND SHIRE COUNCIL	PROJECT: WESTERN WHEELERS MOTORSPORT PARK	SHEET No. 17	SHEETS 35
DATUM:	AHD	D	AMENDED FOR COUNCIL APPROVAL	25-08-23					
PROJECTION:	GDA2020 (ZONE 55)	C	FOR COUNCIL APPROVAL	22-06-23					
SURVEYED BY:		B	FOR REVIEW	19-06-23					
		A	DRAFT - FOR COUNCIL COMMENT	17-04-23					
		SHEET TITLE: ROAD 2 CROSS SECTIONS (24.14 - 42.73)							

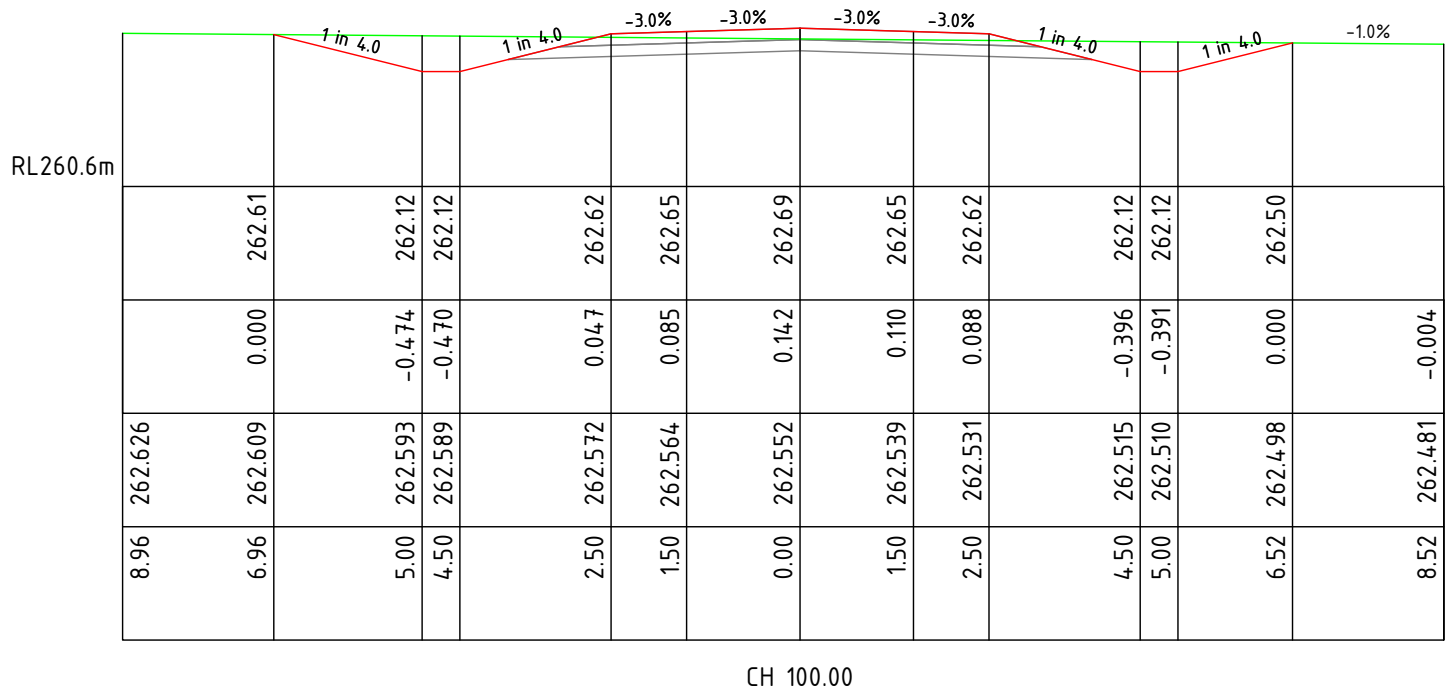
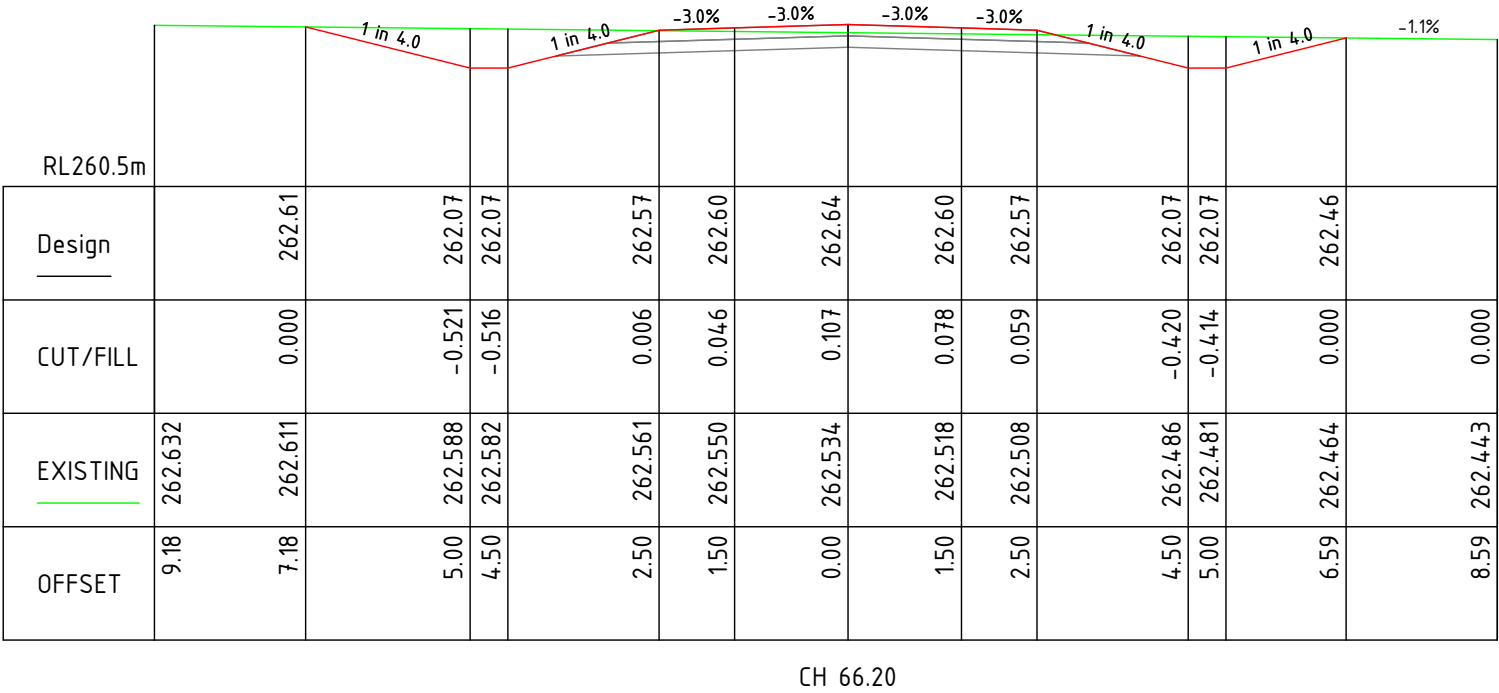
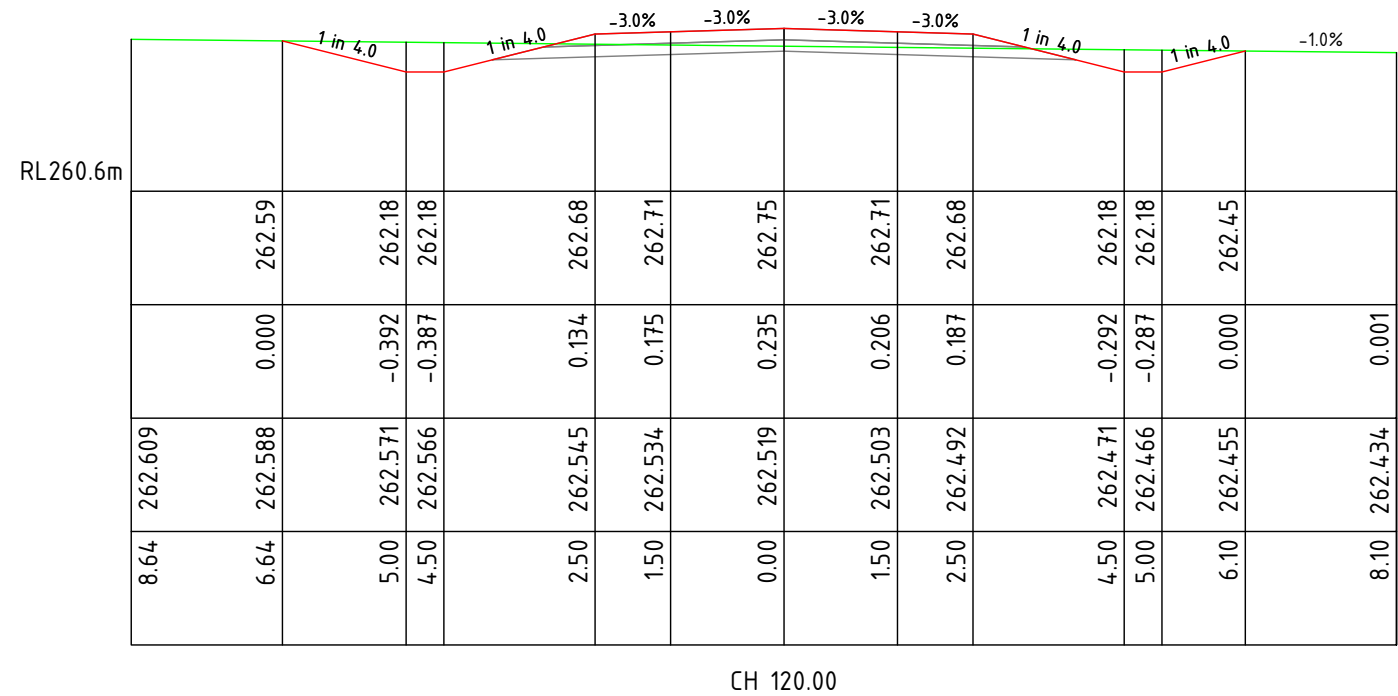
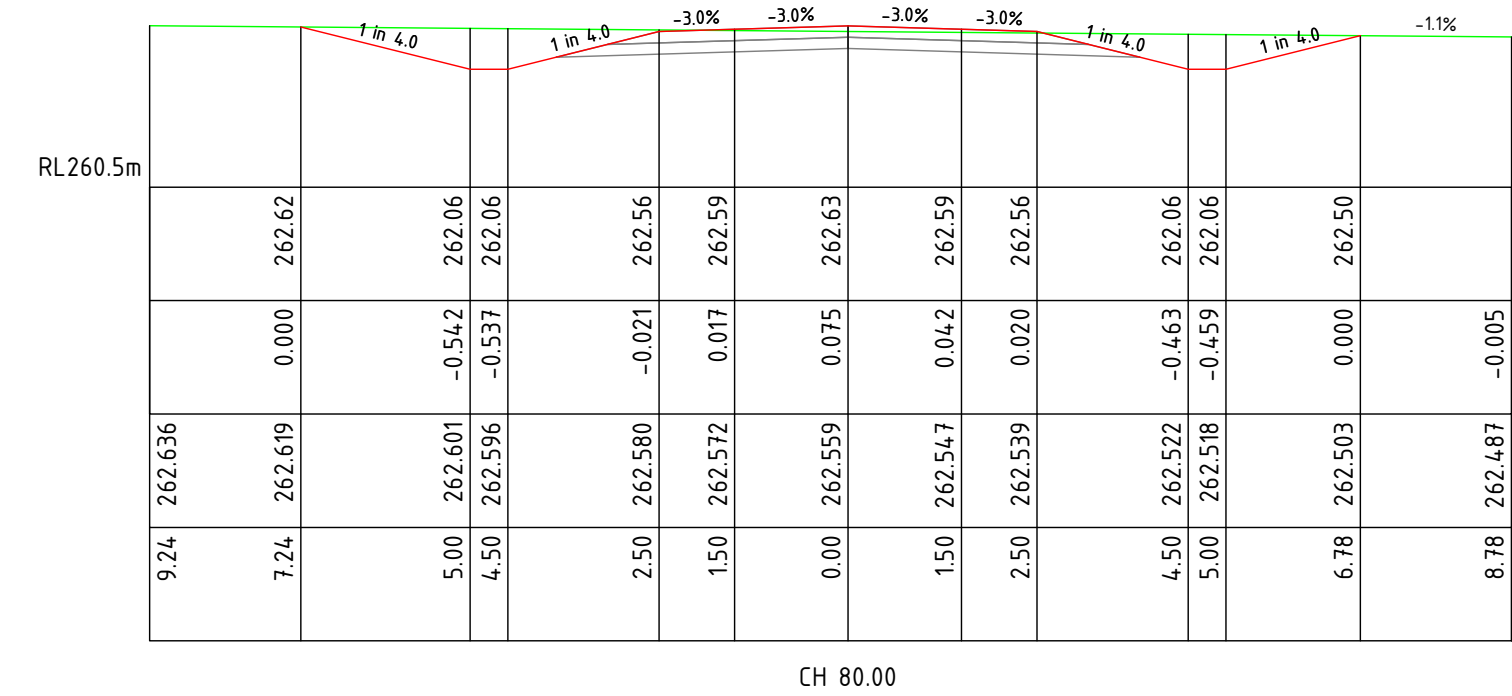
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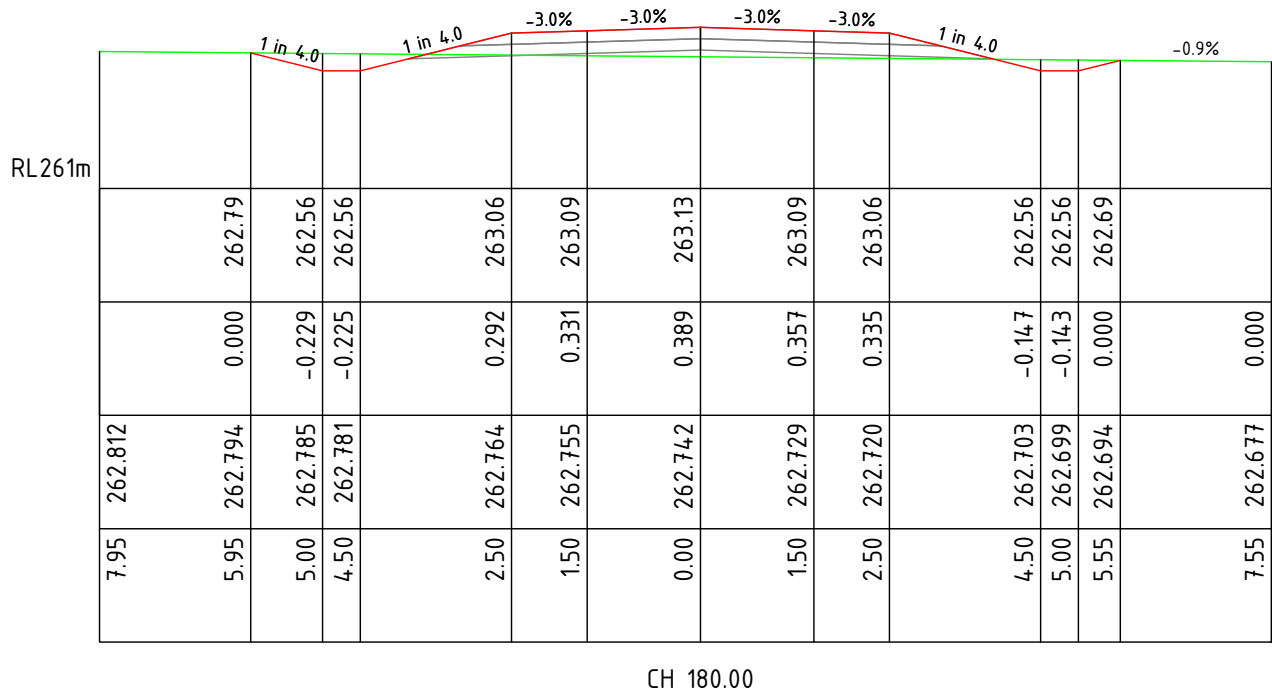
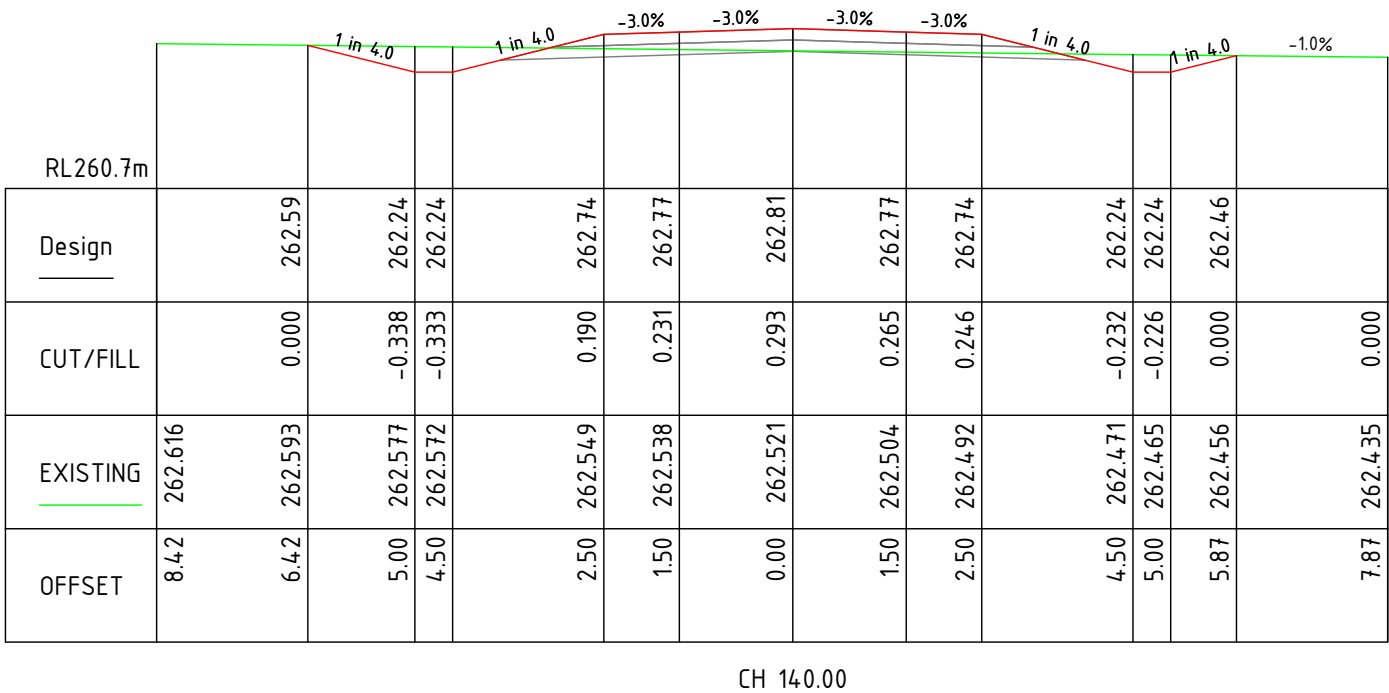
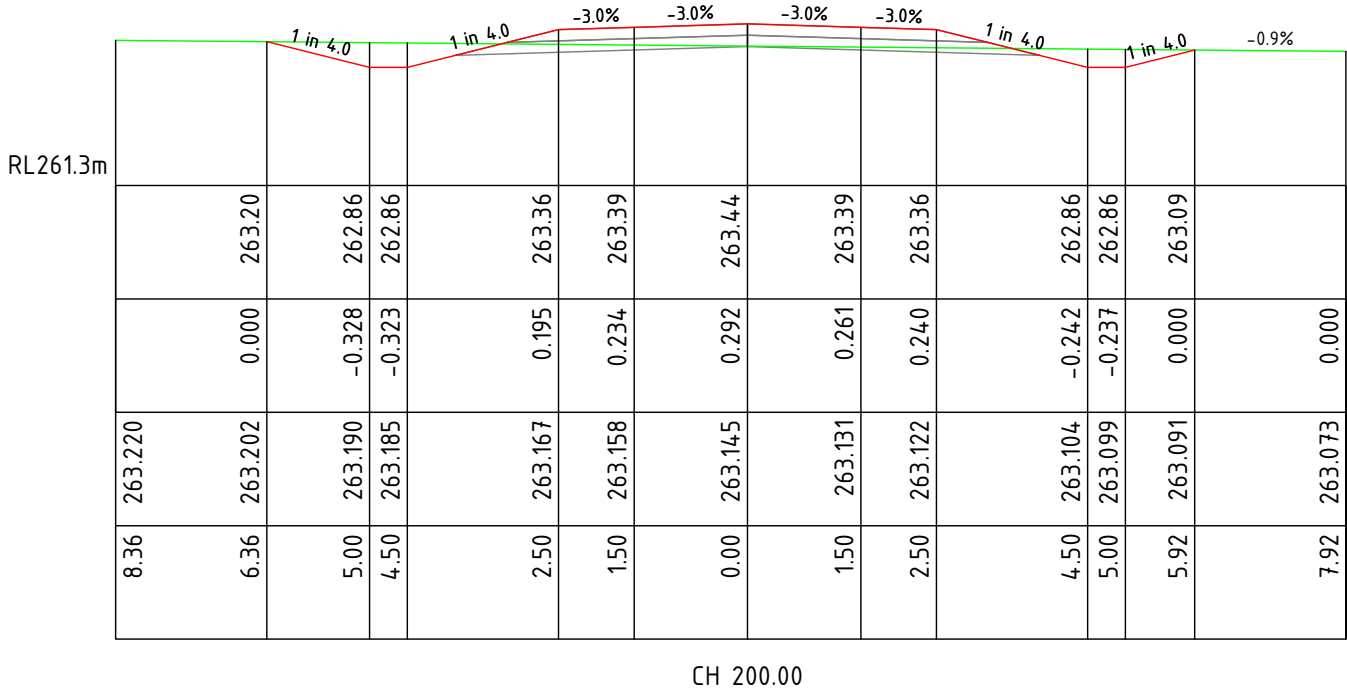
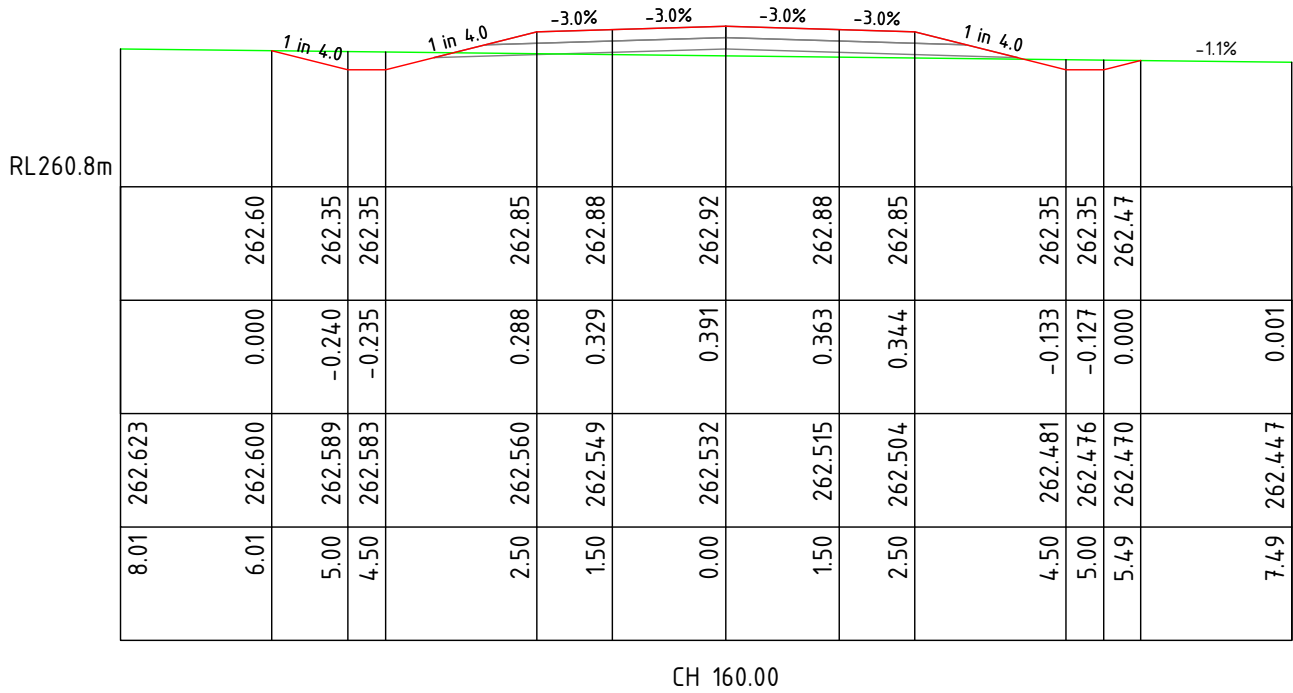
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SCALE: 1:100 DATUM: AHD PROJECTION: GDA2020 (ZONE 55) SURVEYED BY:	REV.	DESCRIPTION	DATE	 REGIONAL ENGINEERING SERVICES PO BOX 702 COOTAMUNDRA NSW 2590 PHONE 0407 351 404	CLIENT: BLAND SHIRE COUNCIL	PROJECT: WESTERN WHEELERS MOTORSPORT PARK	SHEET No. 19	SHEETS 35
	D	AMENDED FOR COUNCIL APPROVAL	25-08-23				SHEET TITLE: ROAD 2 CROSS SECTIONS (66.2 - 120)	
	C	FOR COUNCIL APPROVAL	22-06-23					
	B	FOR REVIEW	19-06-23					
	A	DRAFT - FOR COUNCIL COMMENT	17-04-23					

Plotted 25/08/2023 12:0152 PM

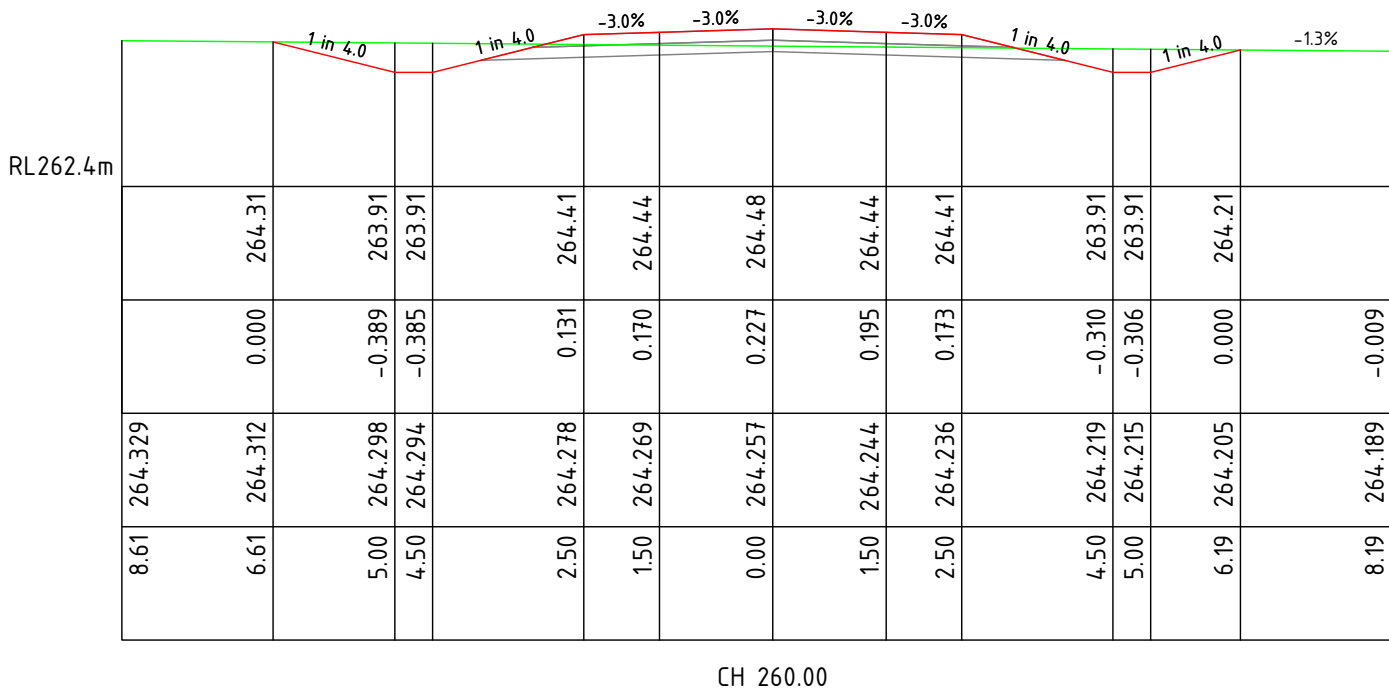
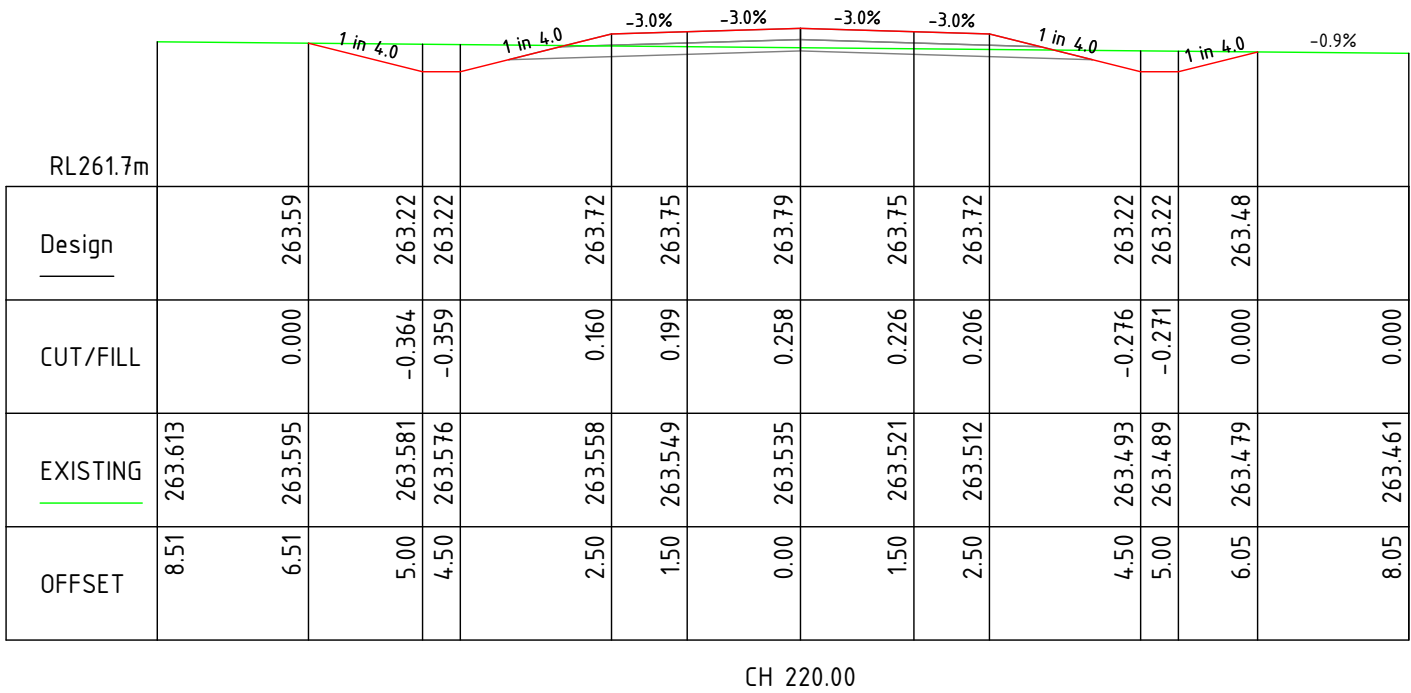
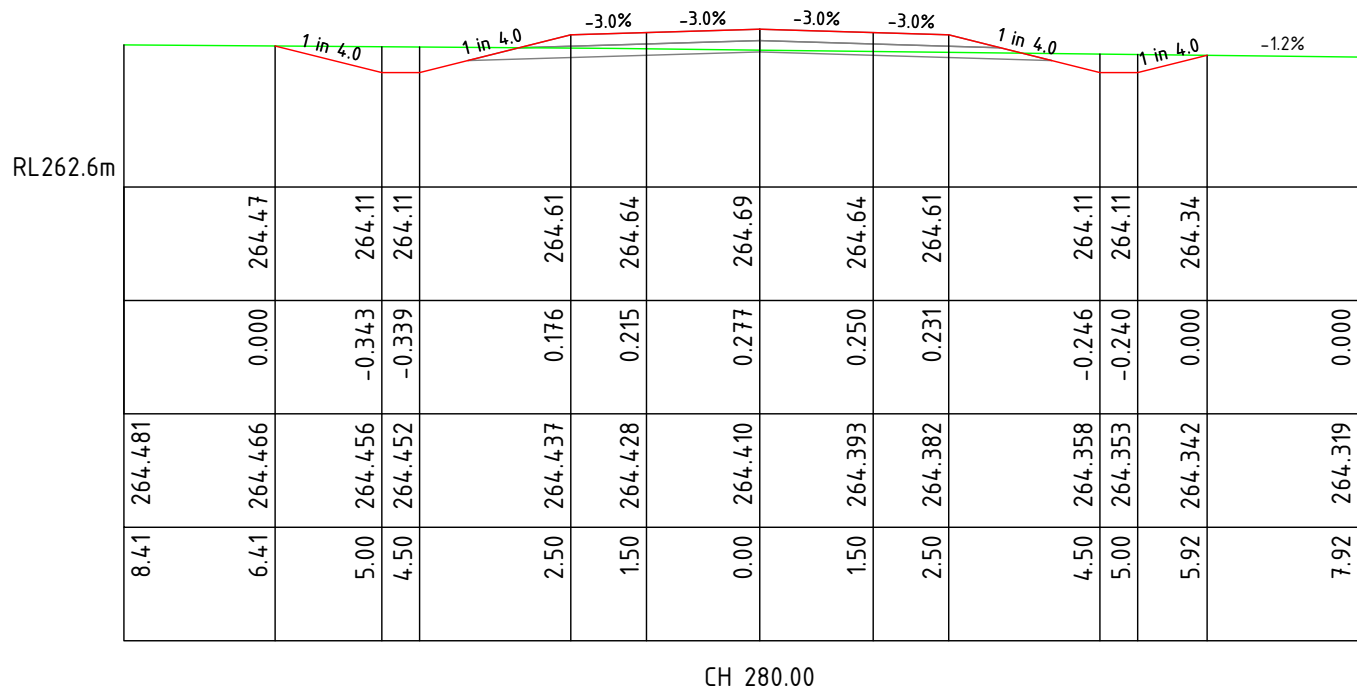
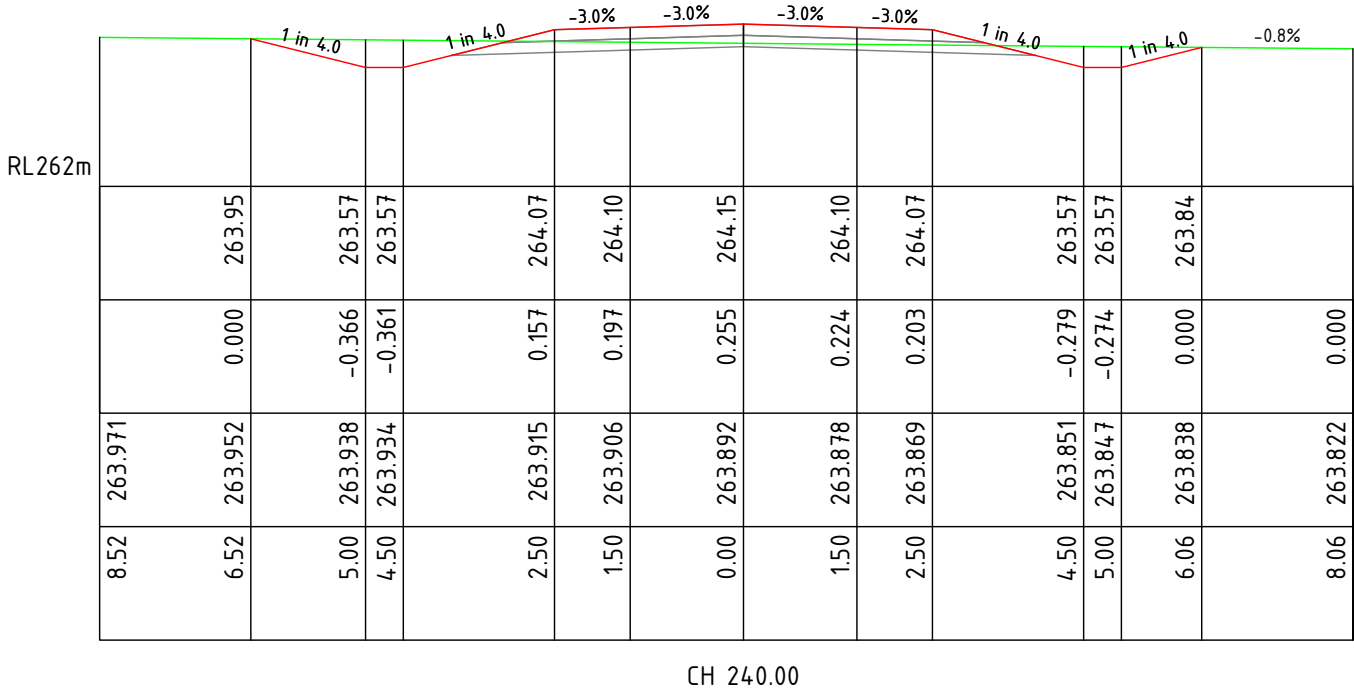
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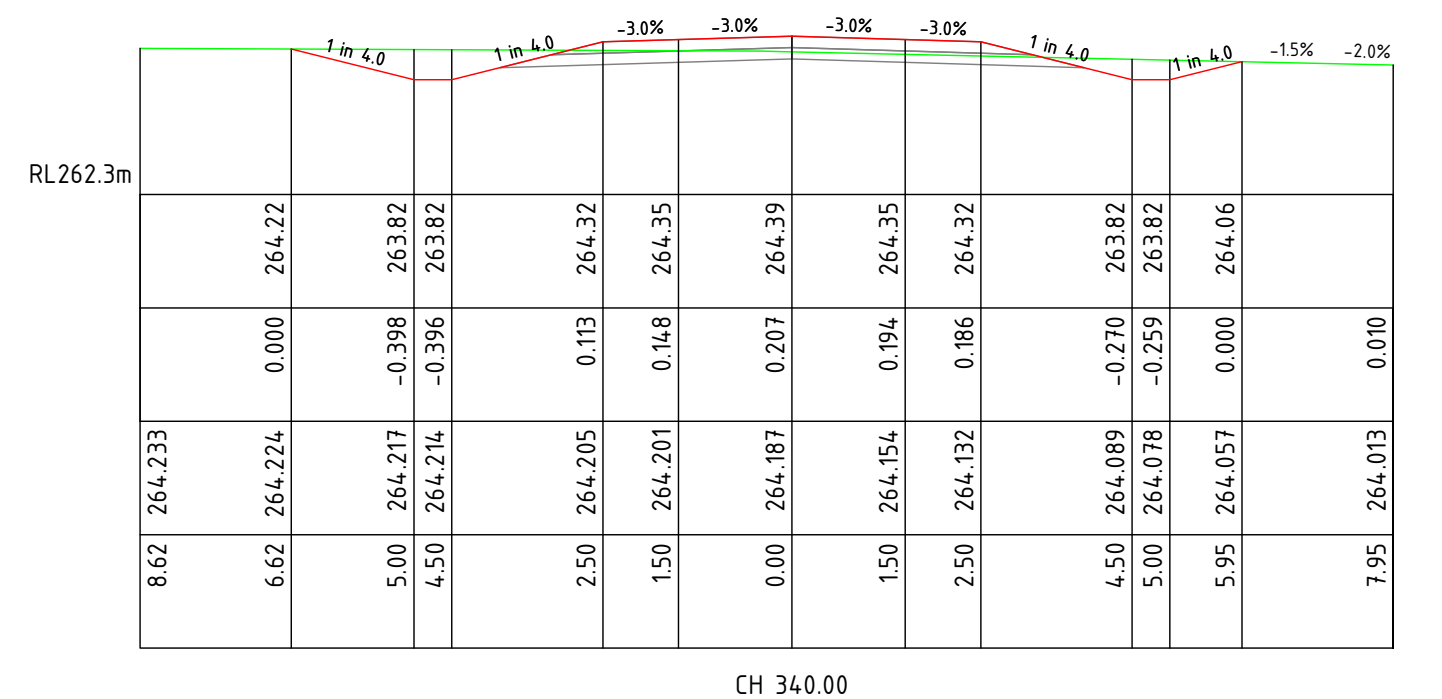
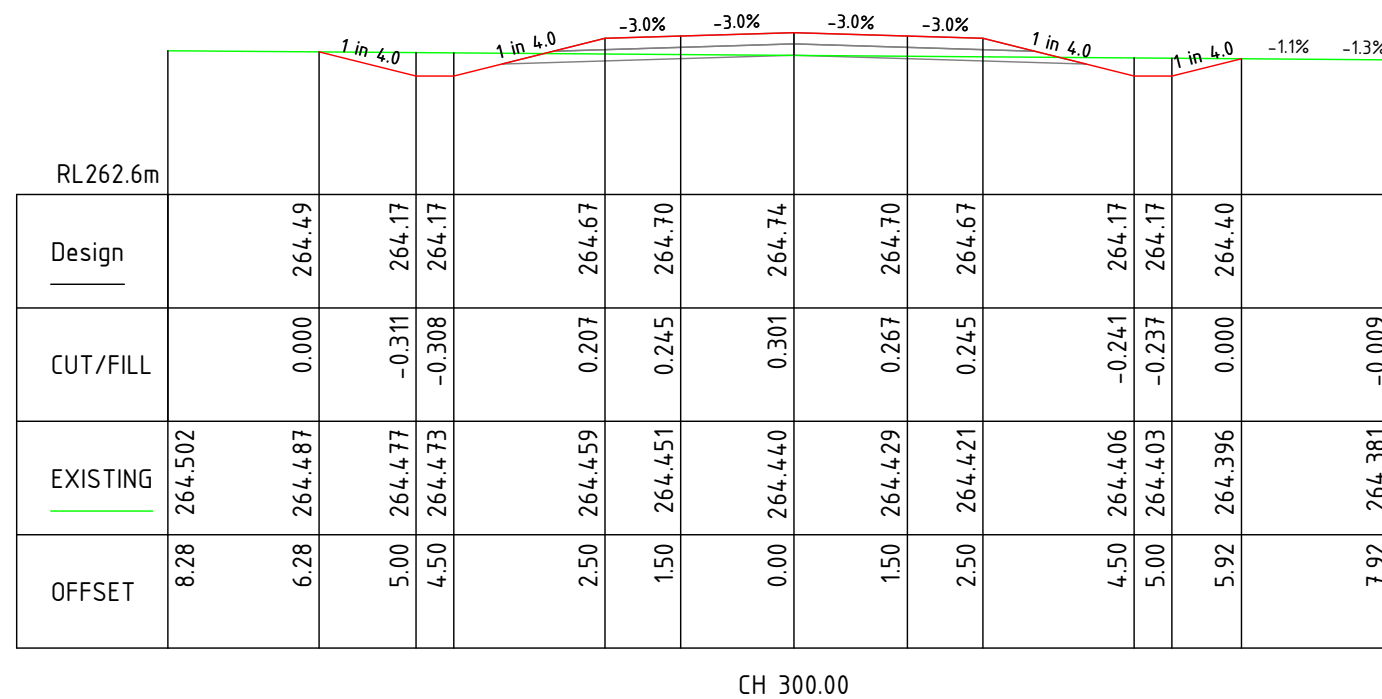
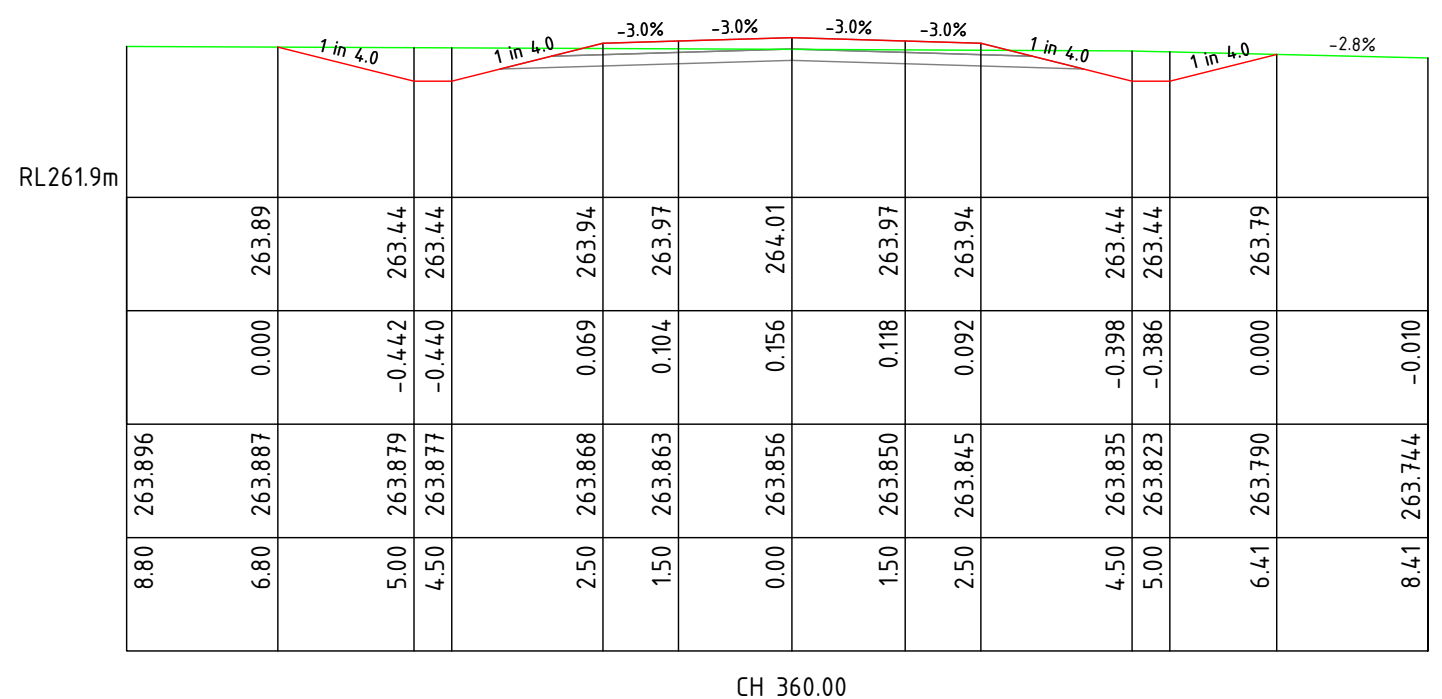
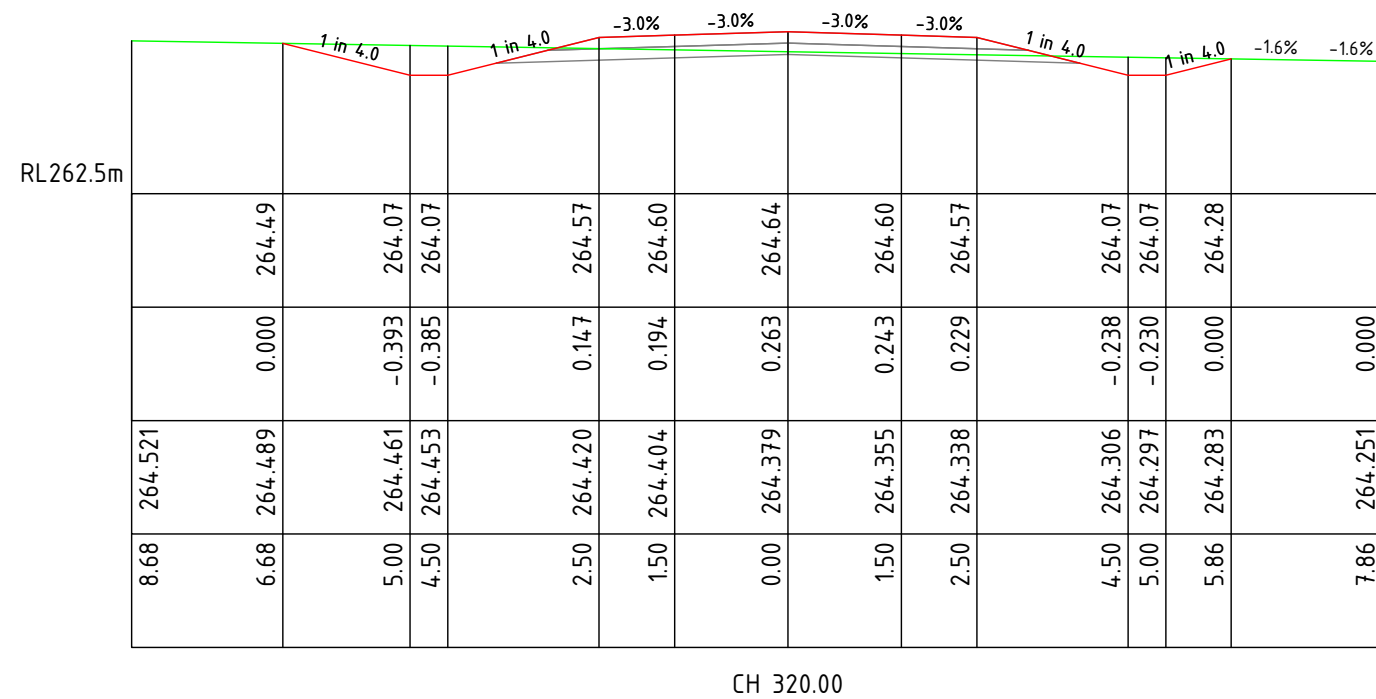
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DATUM: AHD PROJECTION: GDA2020 (ZONE 55) SURVEYED BY:	D	AMENDED FOR COUNCIL APPROVAL	25-08-23	SHEET TITLE: ROAD 2 CROSS SECTIONS (140 - 200)					
	C	FOR COUNCIL APPROVAL	22-06-23						
	B	FOR REVIEW	19-06-23						
	A	DRAFT - FOR COUNCIL COMMENT	17-04-23						

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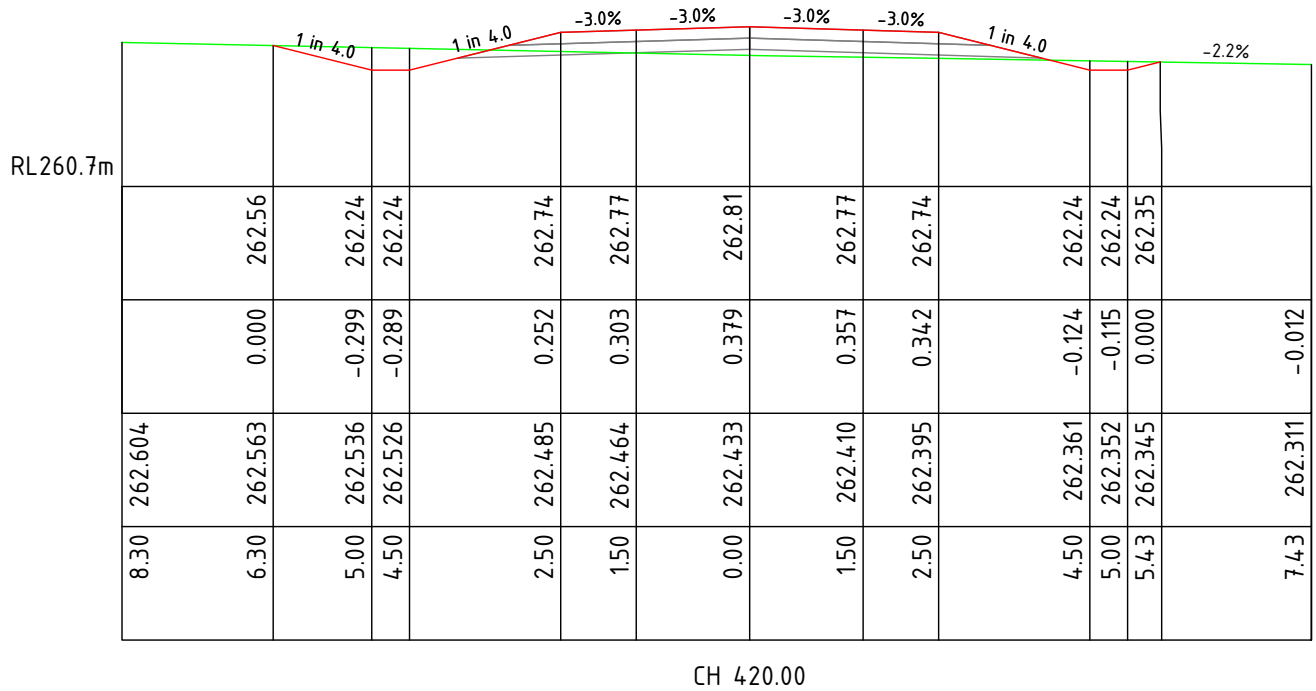
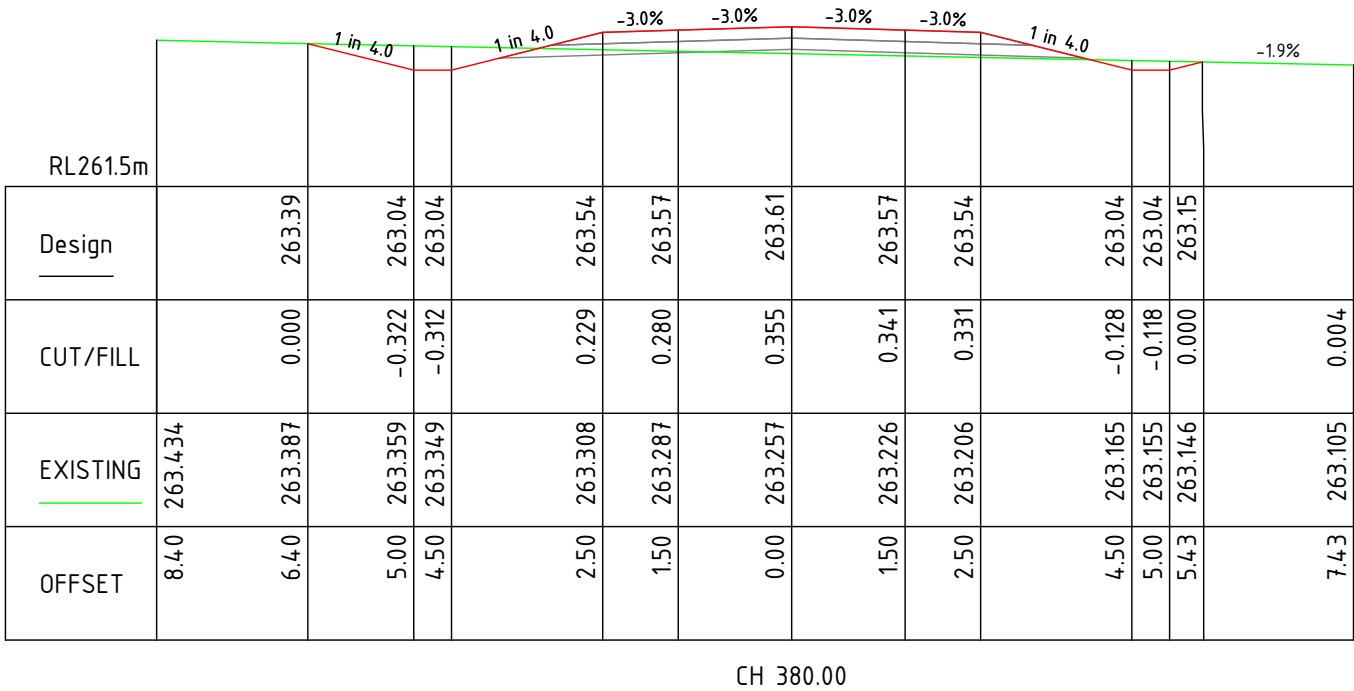
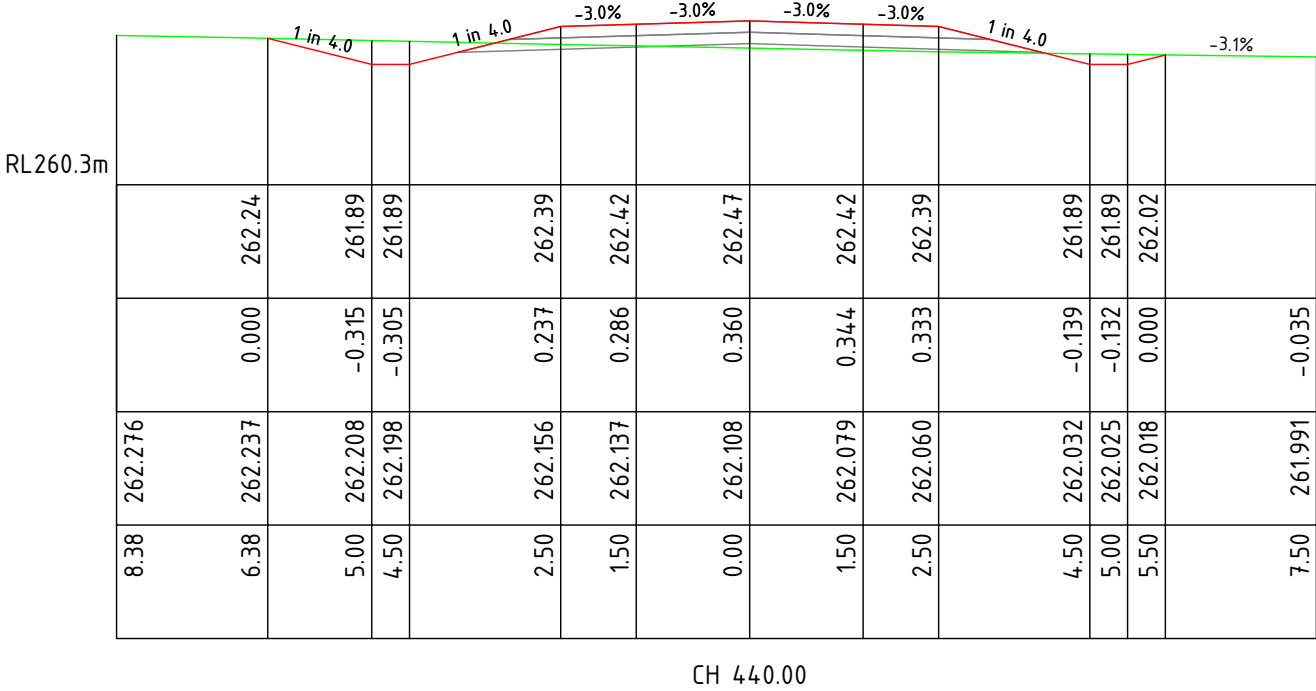
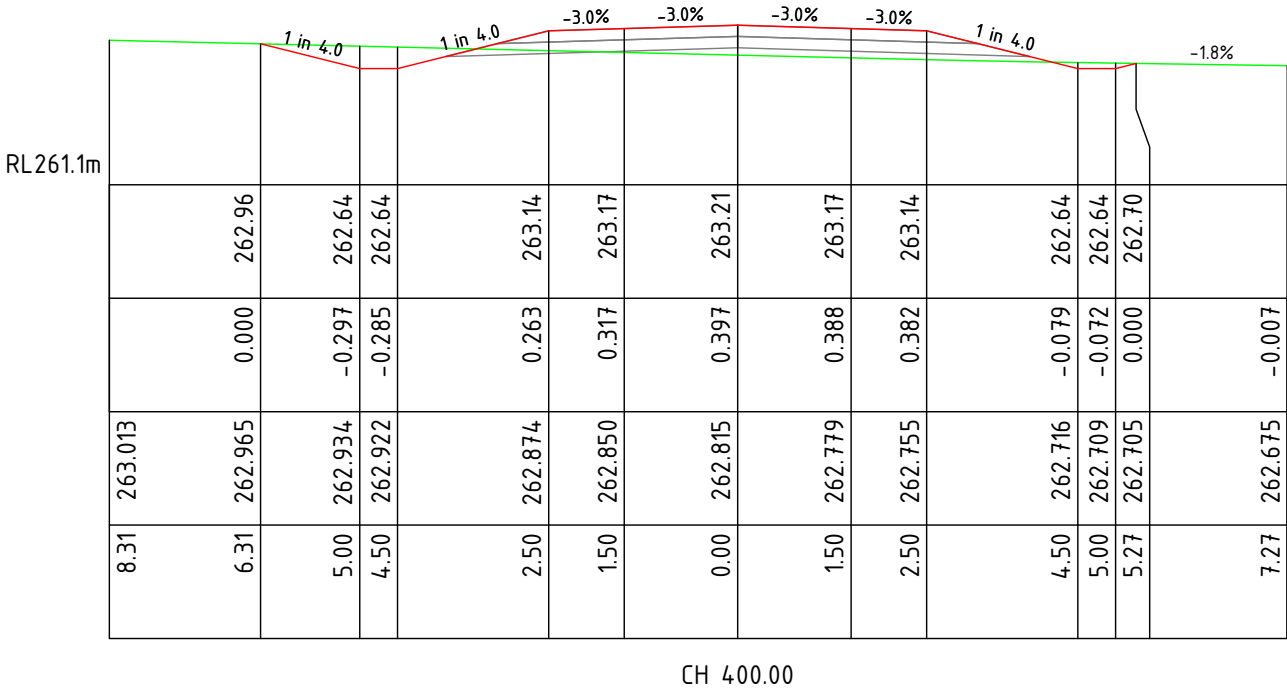
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DATUM: AHD PROJECTION: GDA2020 (ZONE 55) SURVEYED BY:	D	AMENDED FOR COUNCIL APPROVAL	25-08-23	SHEET TITLE: ROAD 2 CROSS SECTIONS 220 - 280)					
	C	FOR COUNCIL APPROVAL	22-06-23						
	B	FOR REVIEW	19-06-23						
	A	DRAFT - FOR COUNCIL COMMENT	17-04-23						



SCALE: 1:100	REV.	DESCRIPTION	DATE	 REGIONAL ENGINEERING SERVICES PO BOX 702 COOTAMUNDRA NSW 2590 PHONE 0407 351 404	CLIENT: BLAND SHIRE COUNCIL	PROJECT: WESTERN WHEELERS MOTORSPORT PARK	SHEET No. 22	SHEETS 35
DATUM: AHD PROJECTION: GDA2020 (ZONE 55) SURVEYED BY:	D	AMENDED FOR COUNCIL APPROVAL	25-08-23				SHEET TITLE: ROAD 2 CROSS SECTIONS (300 - 360)	
	C	FOR COUNCIL APPROVAL	22-06-23					
	B	FOR REVIEW	19-06-23					
	A	DRAFT - FOR COUNCIL COMMENT	17-04-23					

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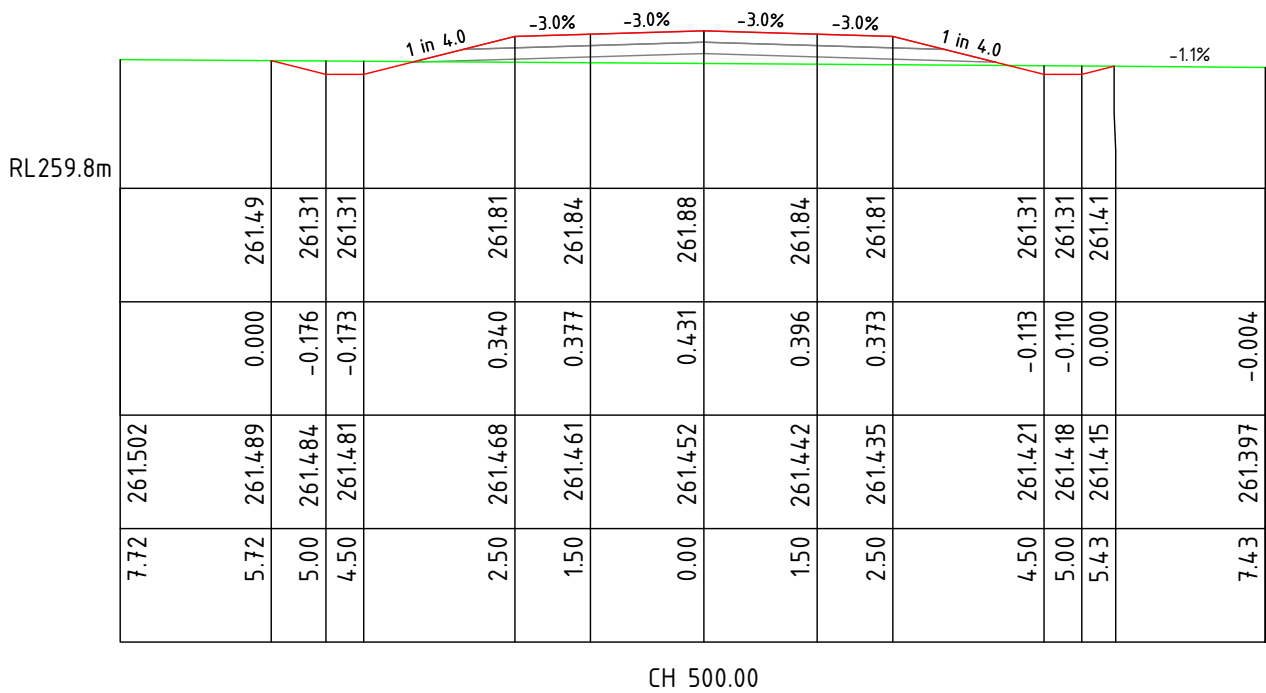
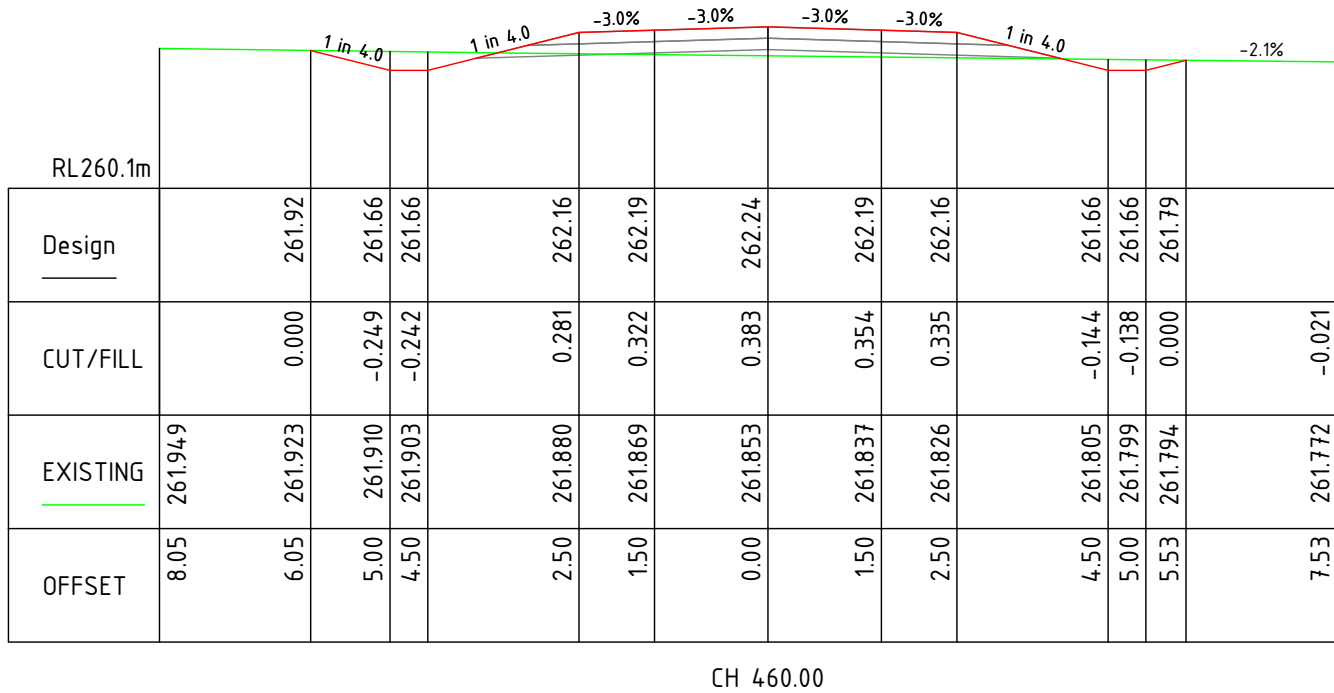
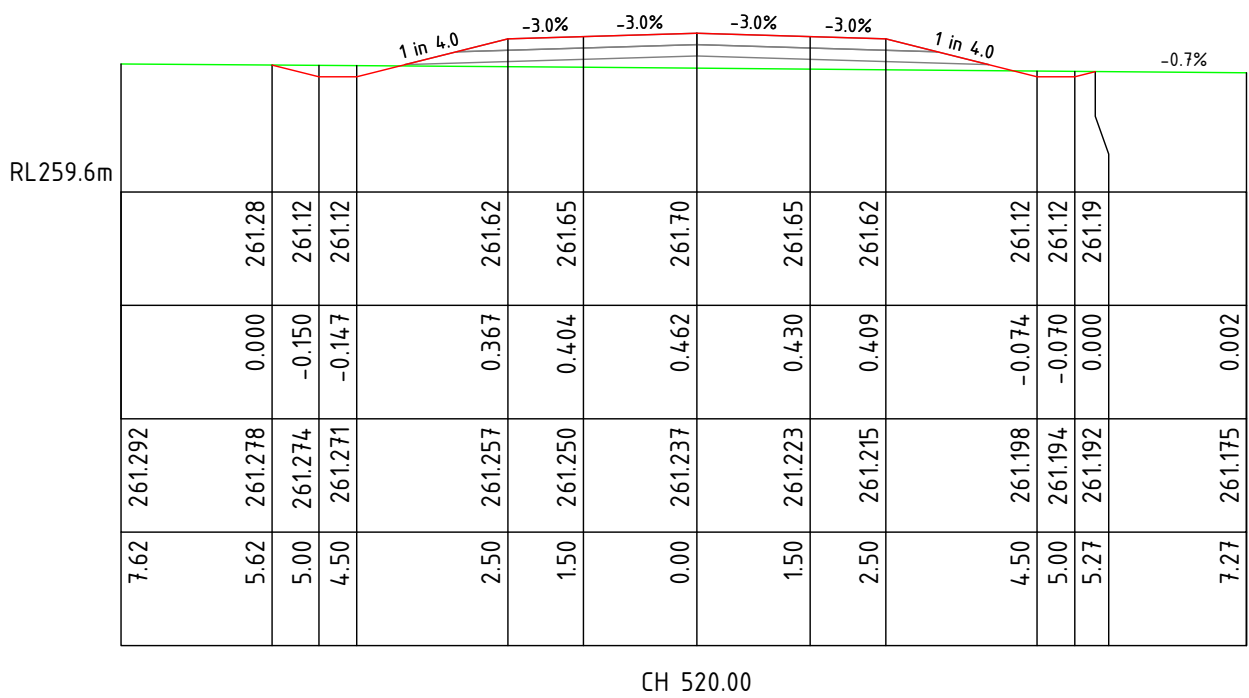
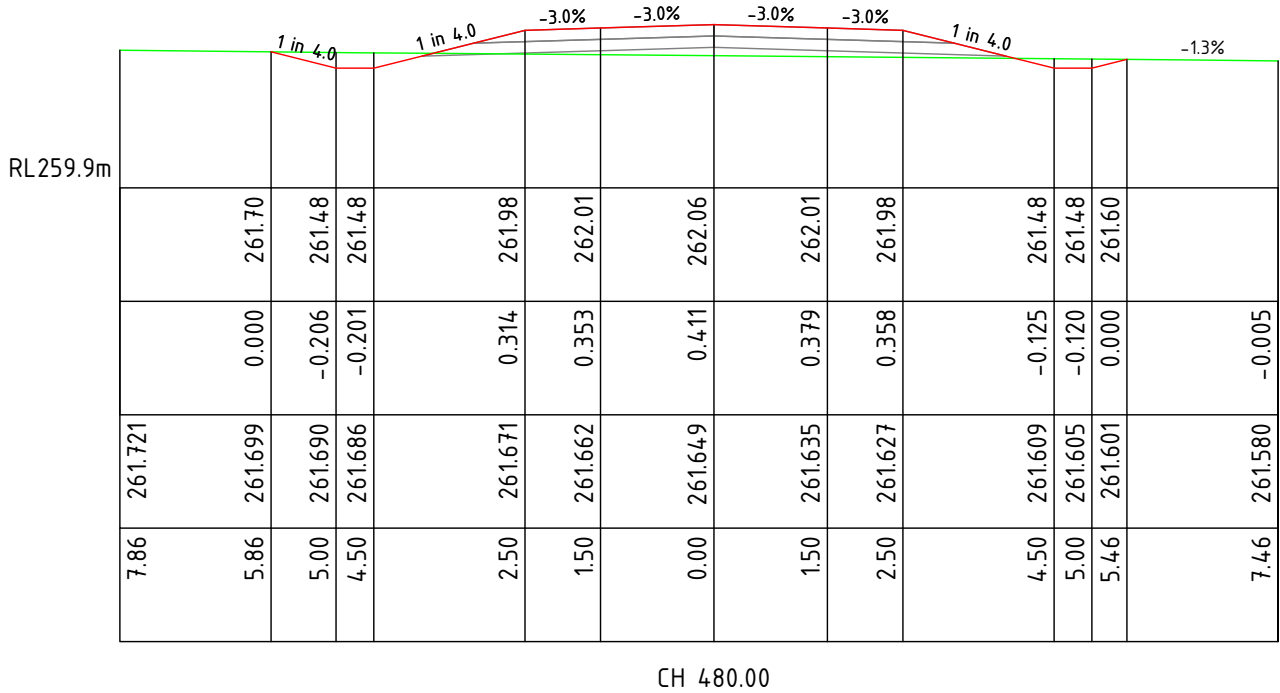
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DATUM: AHD PROJECTION: GDA2020 (ZONE 55) SURVEYED BY:		D	AMENDED FOR COUNCIL APPROVAL	25-08-23				SHEET TITLE: ROAD 2 CROSS SECTIONS (380 - 440)	
		C	FOR COUNCIL APPROVAL	22-06-23					
		B	FOR REVIEW	19-06-23					
		A	DRAFT - FOR COUNCIL COMMENT	17-04-23					

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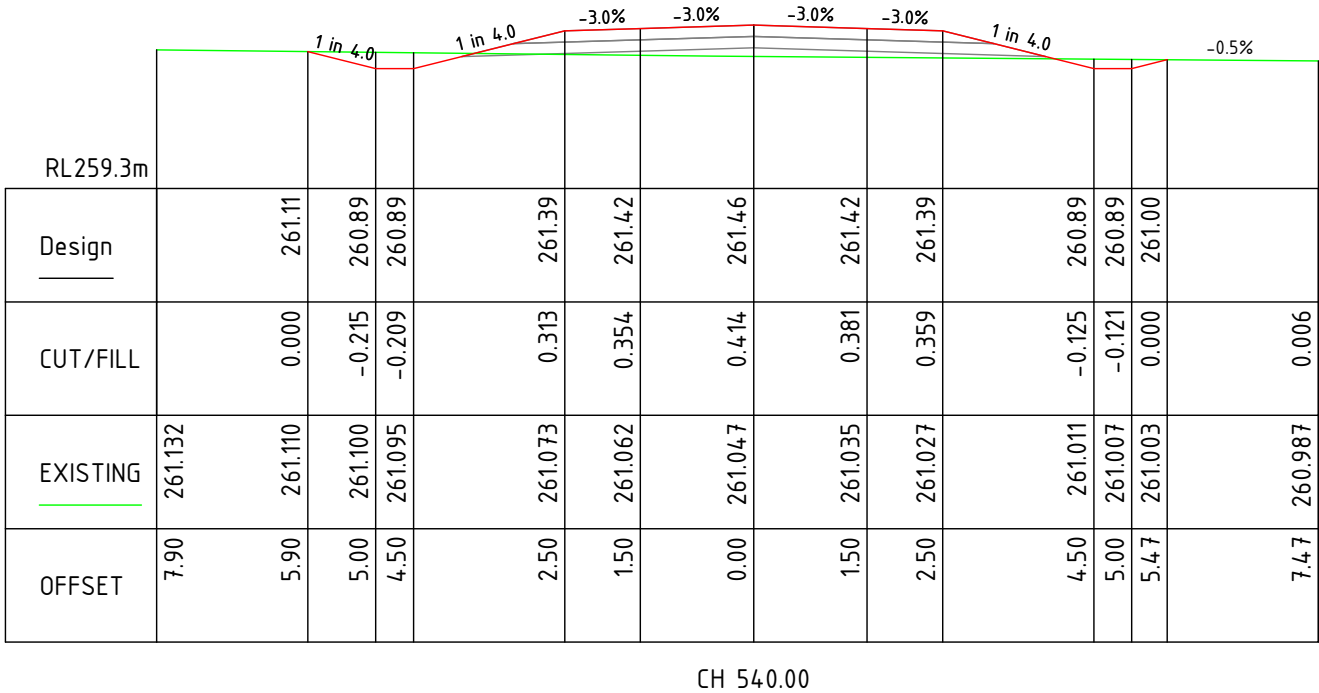
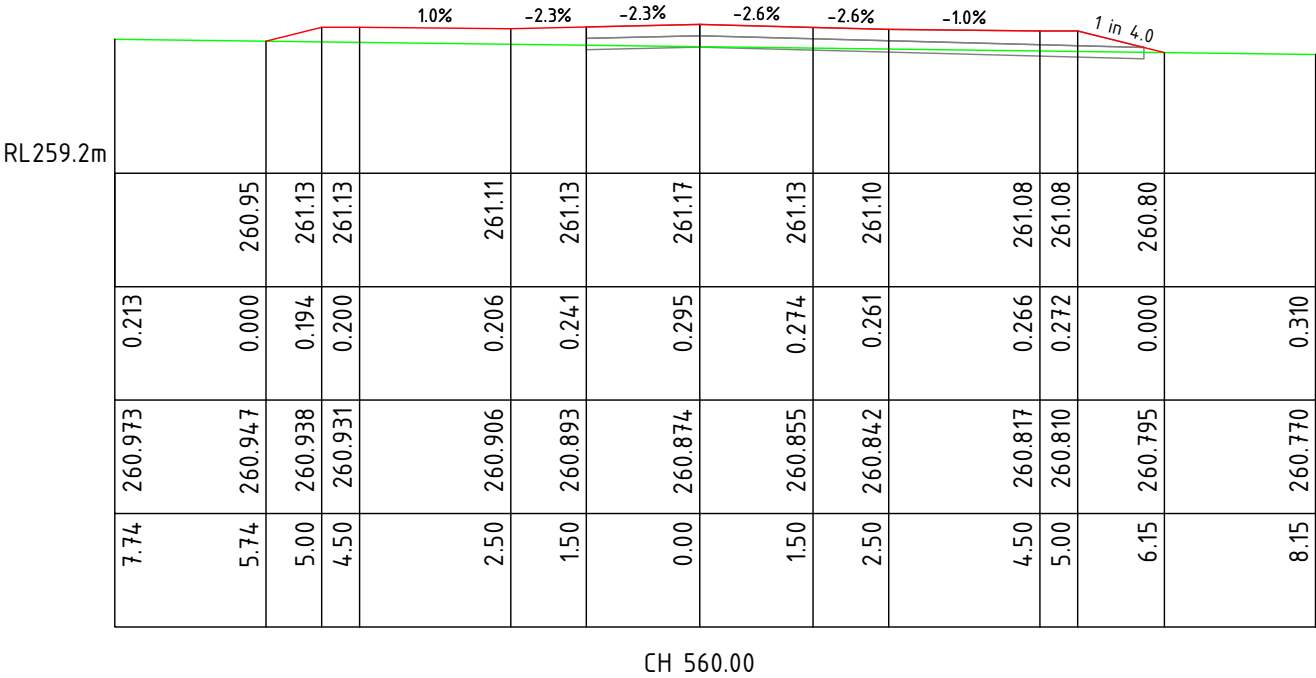
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DATUM: AHD PROJECTION: GDA2020 (ZONE 55) SURVEYED BY:	D	AMENDED FOR COUNCIL APPROVAL	25-08-23	SHEET TITLE: ROAD 2 CROSS SECTIONS (460 - 520)					
	C	FOR COUNCIL APPROVAL	22-06-23						
	B	FOR REVIEW	19-06-23						
	A	DRAFT - FOR COUNCIL COMMENT	17-04-23						

Plotted 25/08/2023 12:01:53 PM

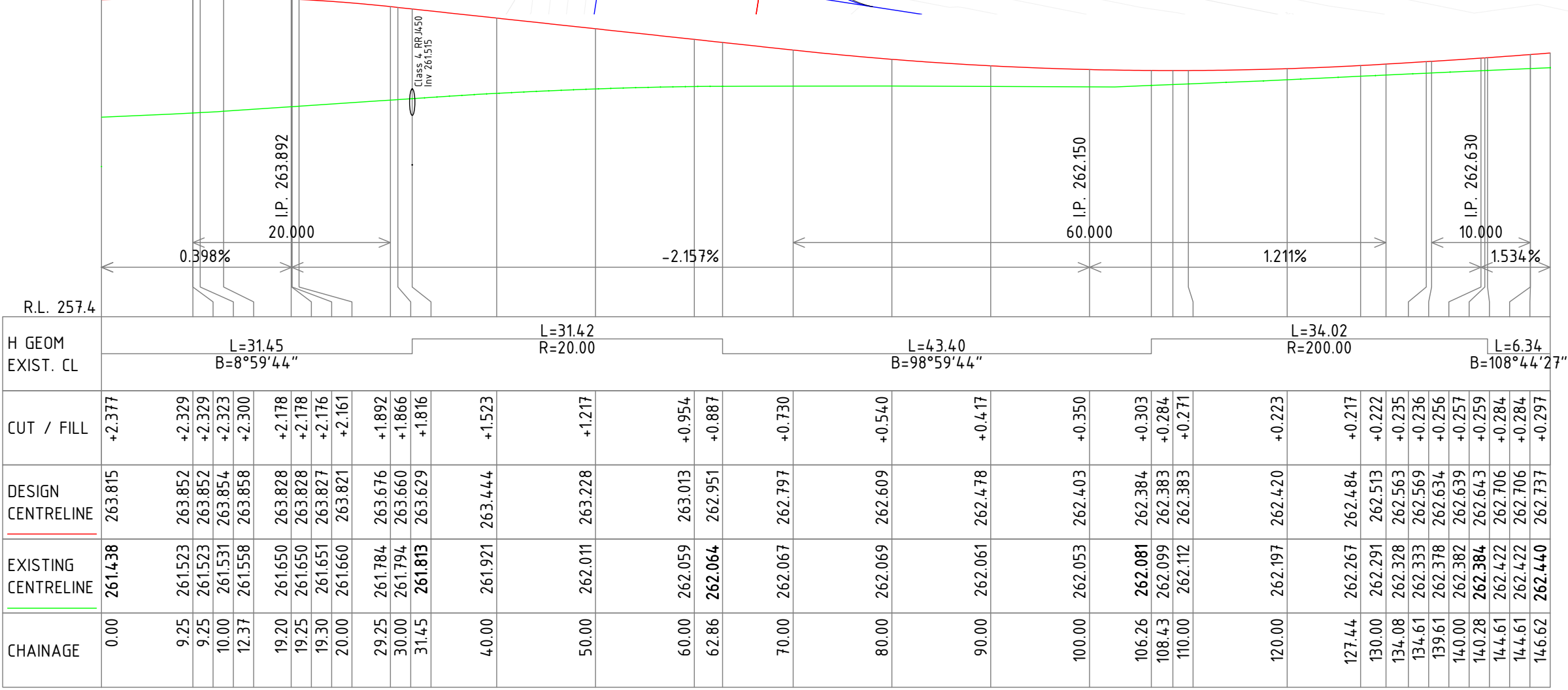
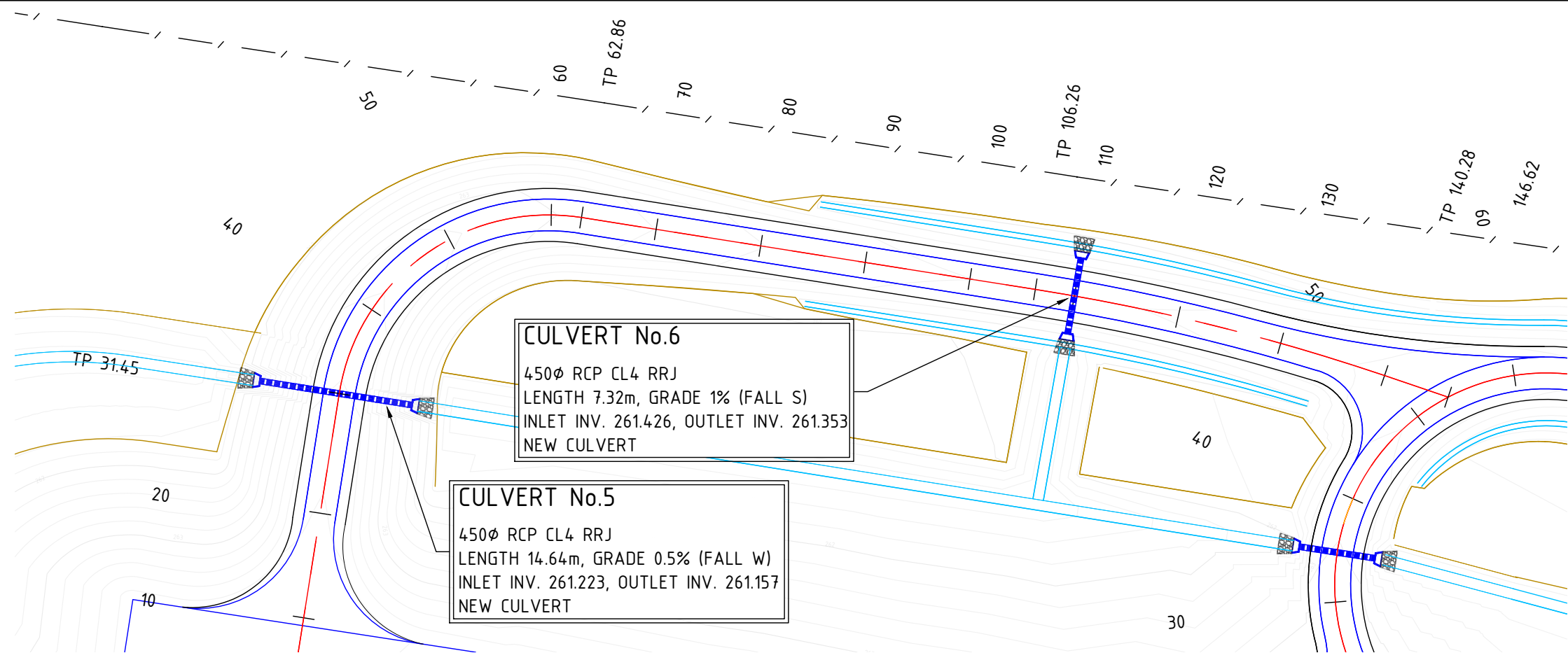
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DATUM: AHD PROJECTION: GDA2020 (ZONE 55) SURVEYED BY:		D	AMENDED FOR COUNCIL APPROVAL	25-08-23				SHEET TITLE: ROAD 2 CROSS SECTIONS (540 - 560)	
		C	FOR COUNCIL APPROVAL	22-06-23					
		B	FOR REVIEW	19-06-23					
		A	DRAFT - FOR COUNCIL COMMENT	17-04-23					

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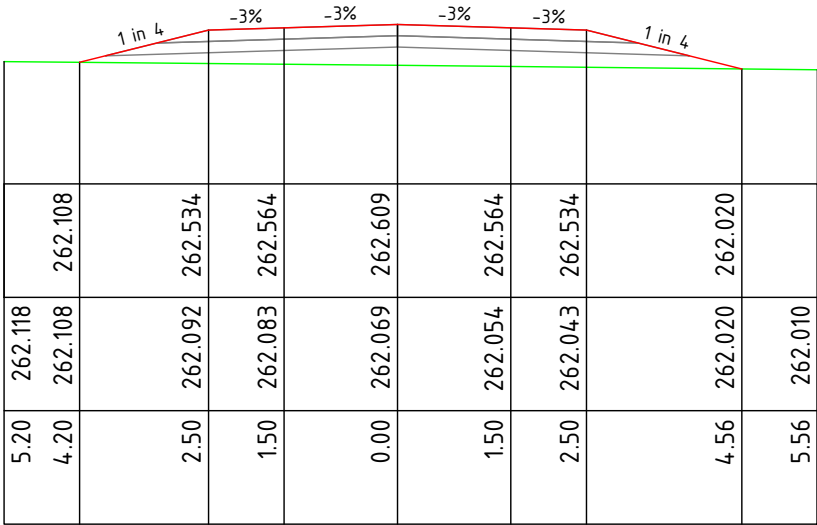


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EXISTING CENTRELINE	261.438	261.523	261.523	261.531	261.558	261.650	261.650	261.651	261.660	261.784	261.794	261.813	261.921	262.011	262.059	262.064	262.067	262.069	262.061	262.053	262.081	262.099	262.112	262.197	262.267	262.291	262.328	262.333	262.378	262.382	262.384	262.422	262.422	262.440
DESIGN CENTRELINE	263.815	263.852	263.852	263.854	263.858	263.828	263.828	263.827	263.821	263.676	263.660	263.629	263.444	263.228	263.013	262.951	262.797	262.609	262.478	262.403	262.384	262.383	262.383	262.420	262.484	262.513	262.563	262.569	262.634	262.639	262.643	262.706	262.706	262.737
CUT / FILL	+2.377	+2.329	+2.329	+2.323	+2.300	+2.178	+2.178	+2.176	+2.161	+1.892	+1.866	+1.816	+1.523	+1.217	+0.954	+0.887	+0.730	+0.540	+0.417	+0.350	+0.303	+0.284	+0.271	+0.223	+0.217	+0.222	+0.235	+0.236	+0.256	+0.257	+0.259	+0.284	+0.284	+0.297

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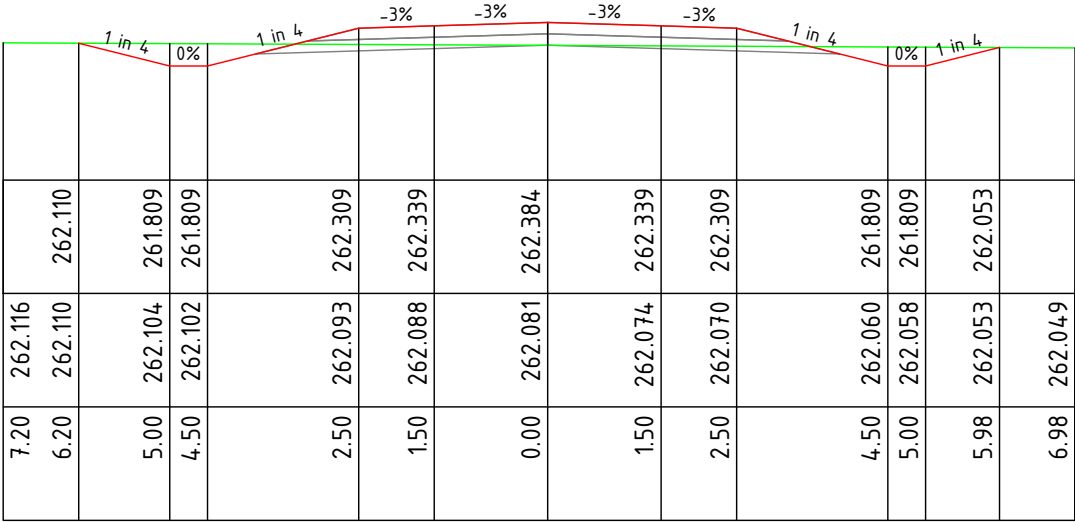
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RL260.5m



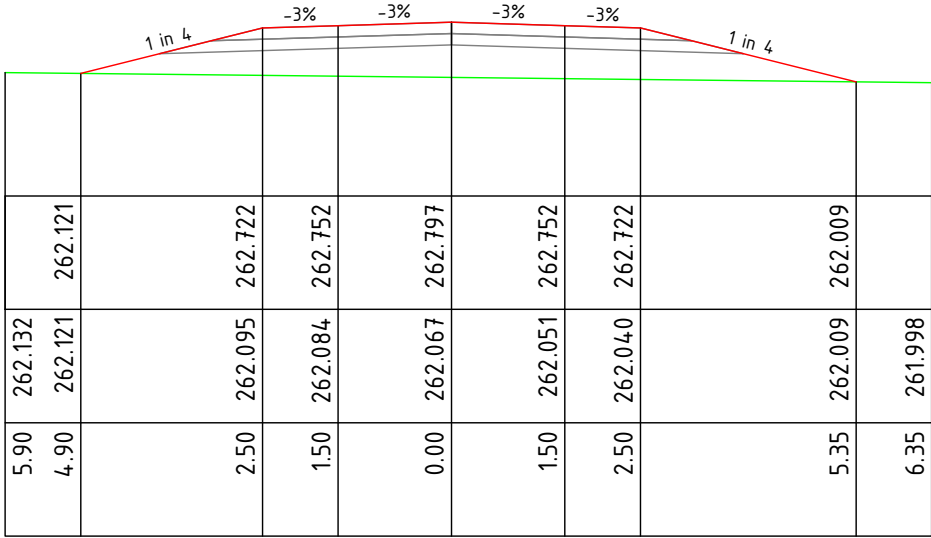
CH 80.00

RL260.3m



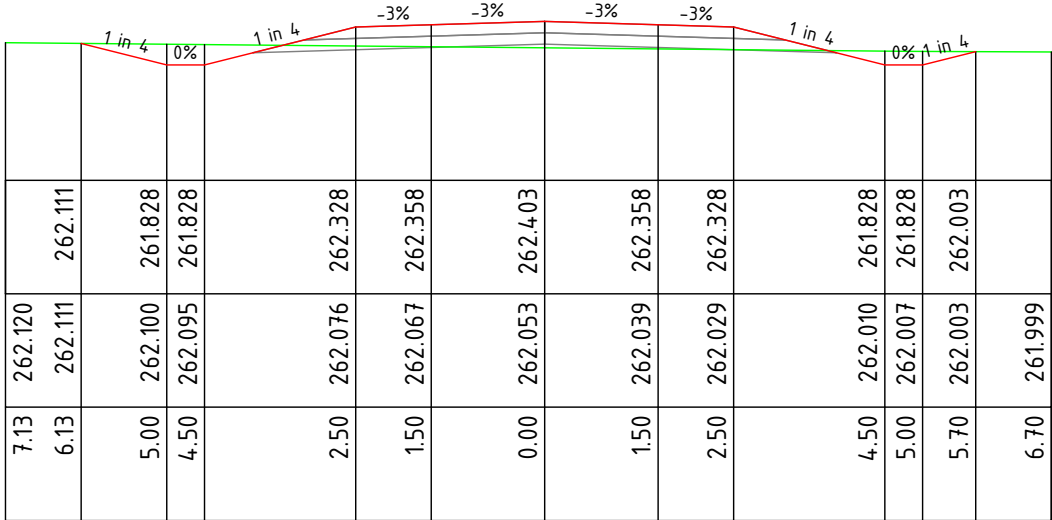
CH 106.26

RL260.5m



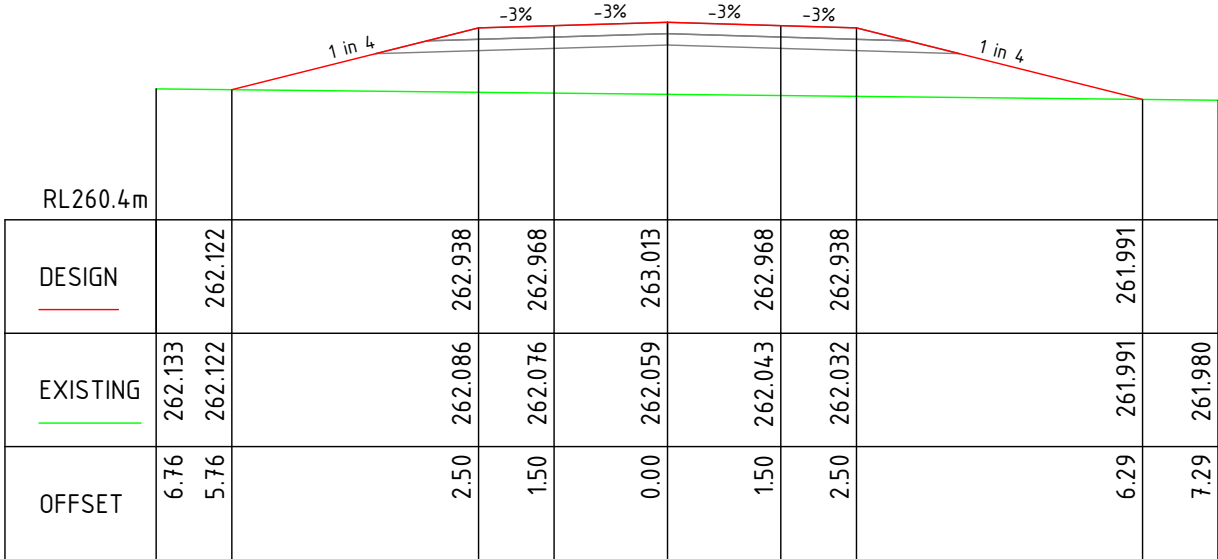
CH 70.00

RL260.3m



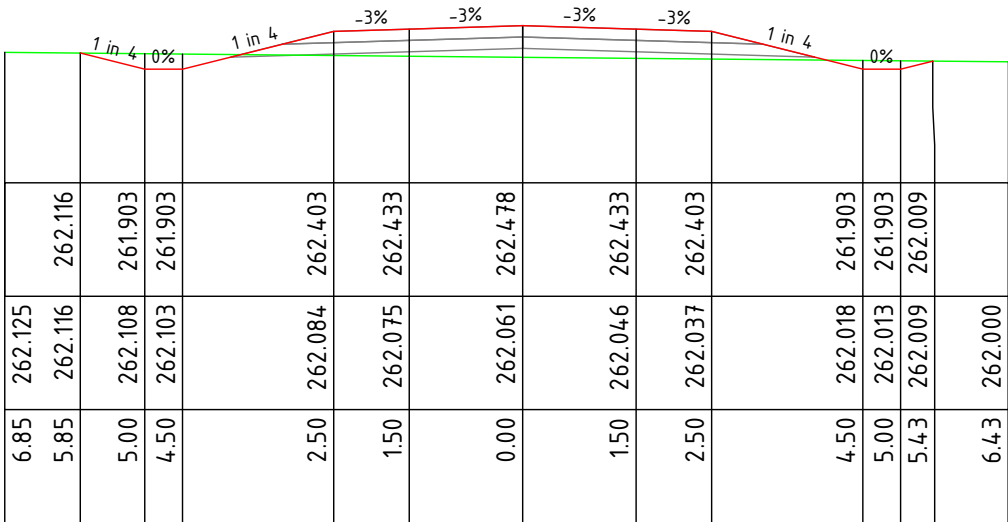
CH 100.00

RL260.4m



CH 60.00

RL260.4m

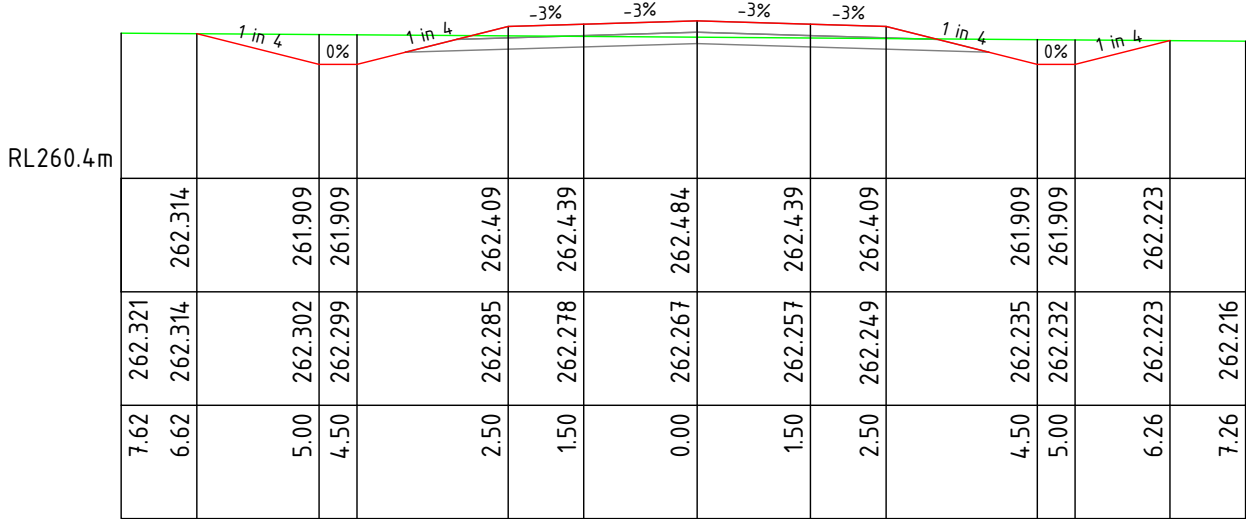


CH 90.00

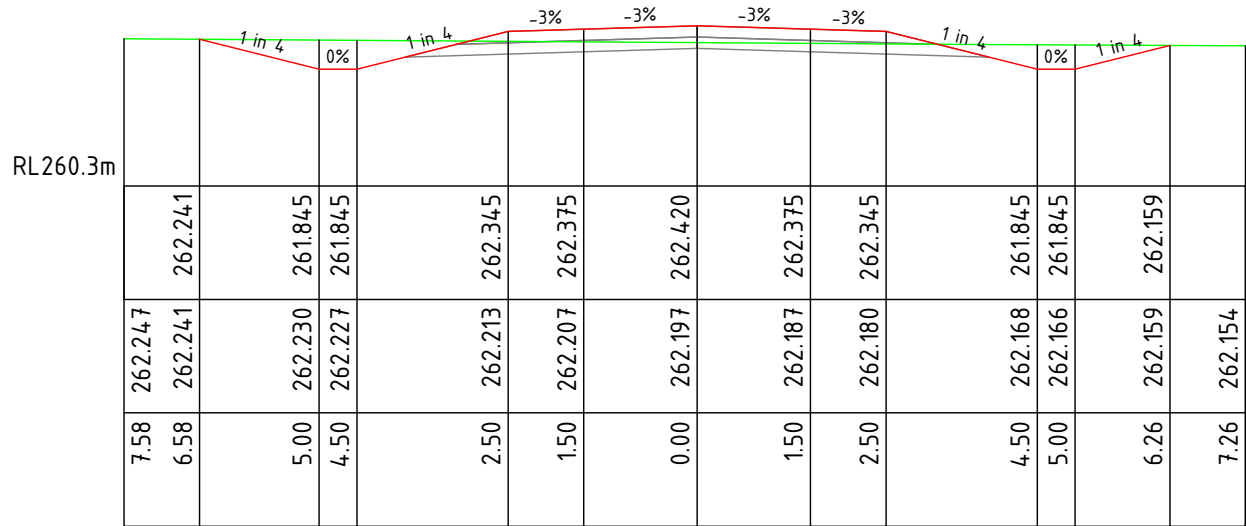
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DATUM: AHD PROJECTION: GDA2020 (ZONE 55) SURVEYED BY:		D	AMENDED FOR COUNCIL APPROVAL	25-08-23				SHEET TITLE: ROAD 3 CROSS SECTIONS (60 - 106.26)	
		C	FOR COUNCIL APPROVAL	22-06-23					
		B	FOR REVIEW	19-06-23					
		A	DRAFT - FOR COUNCIL COMMENT	17-04-23					

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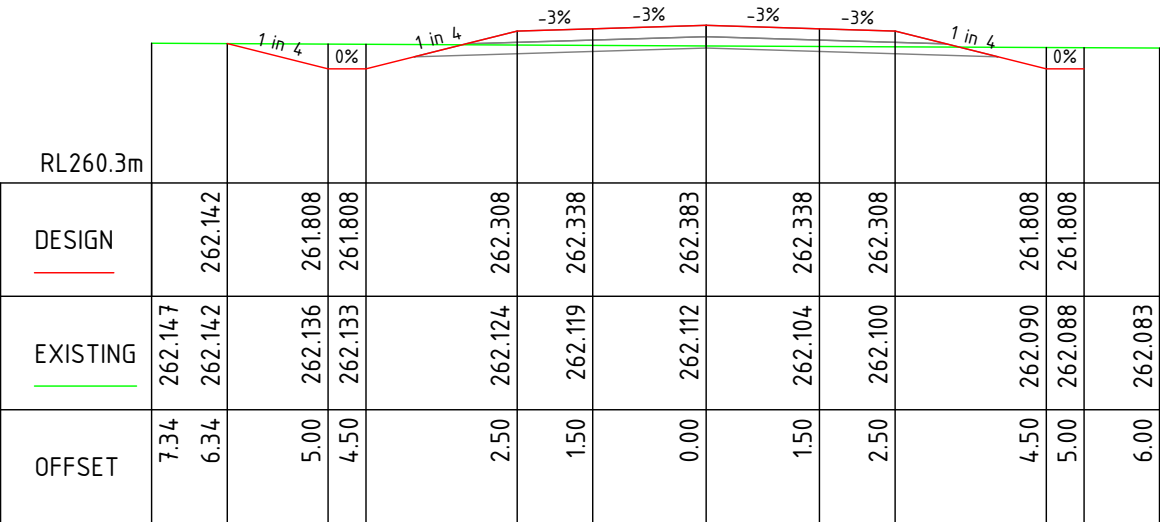
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CH 127.44



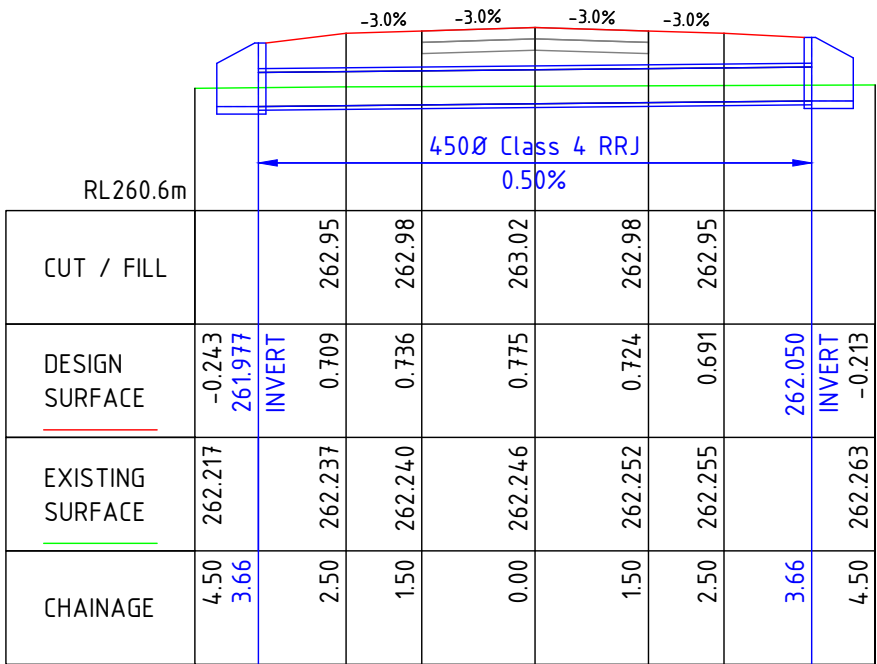
CH 120.00



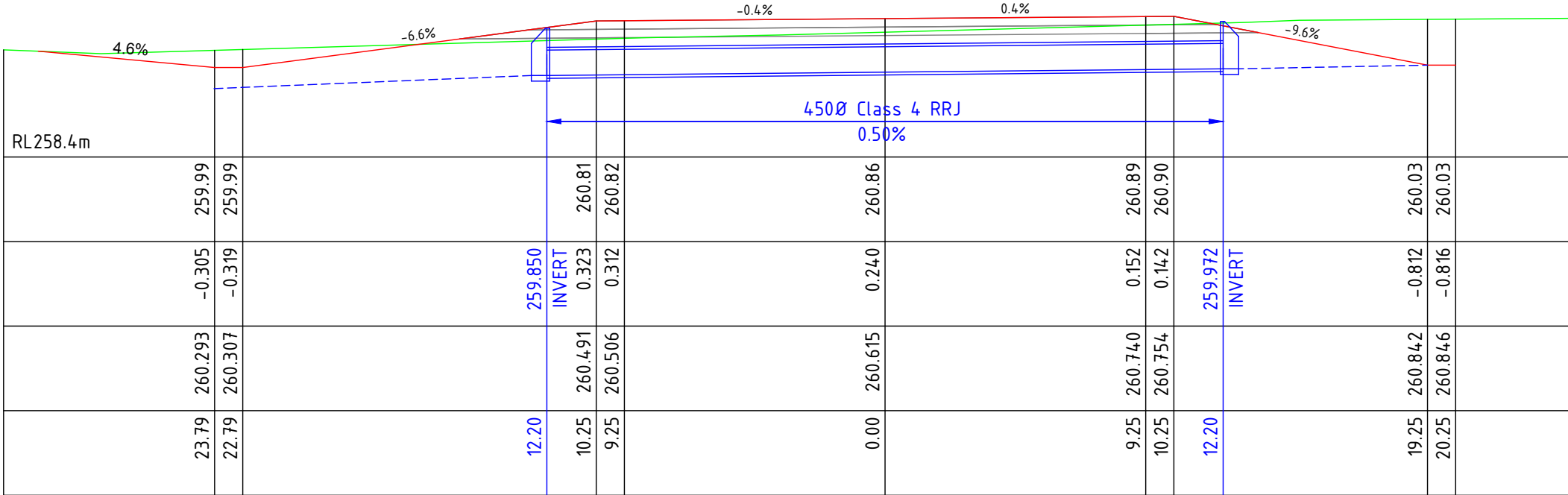
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CULVERT No.1 (ROAD 2 - CH34.7)

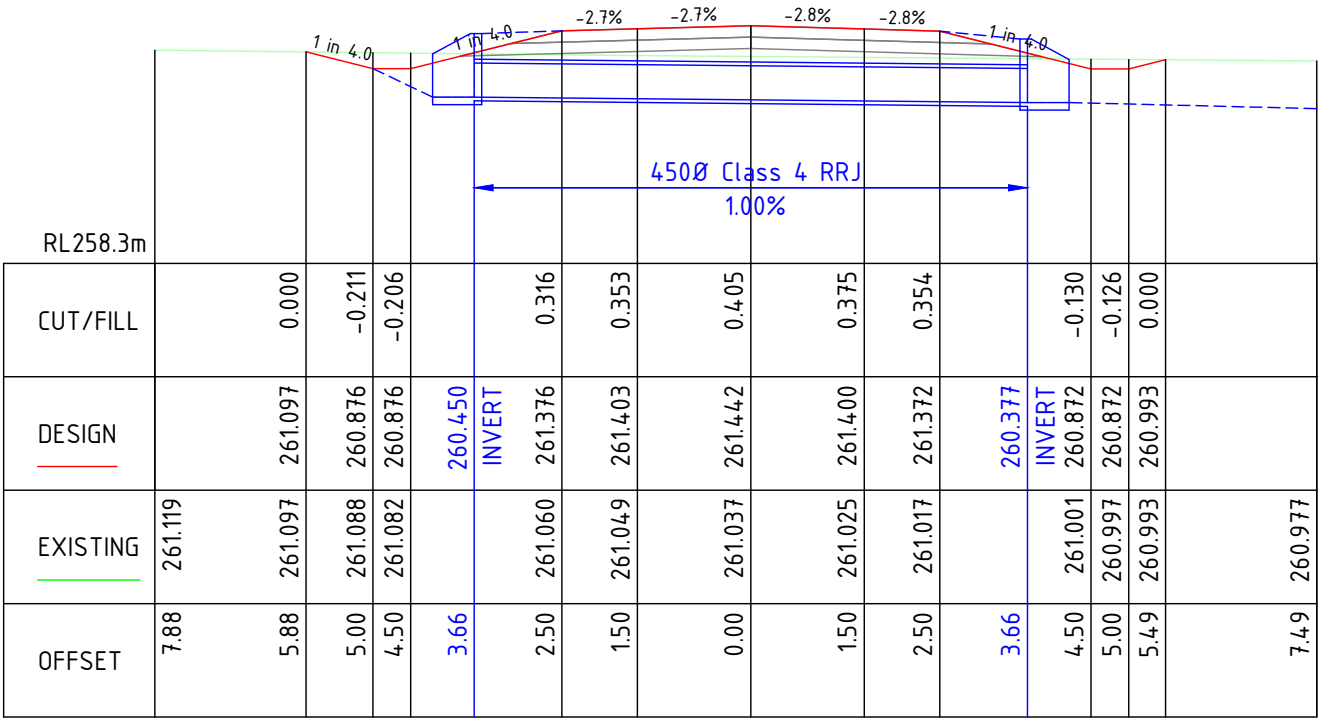


CULVERT No.2 (ROAD 1 - CH 8.06)

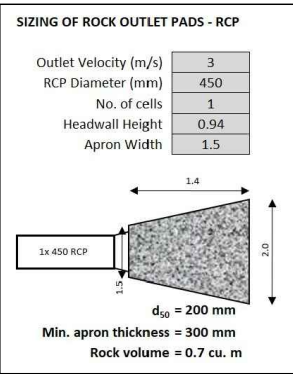
SCALES: HORIZONTAL 1:200 VERTICAL 1:100

EXTENSION OF EXISTING 450mm RCP (GRADE UNKNOWN)
EXTEND WITH 450mm RCP (CL4 RRJ)
BY 7.32m TO NORTH AT 1% GRADE.

CULVERT No.3

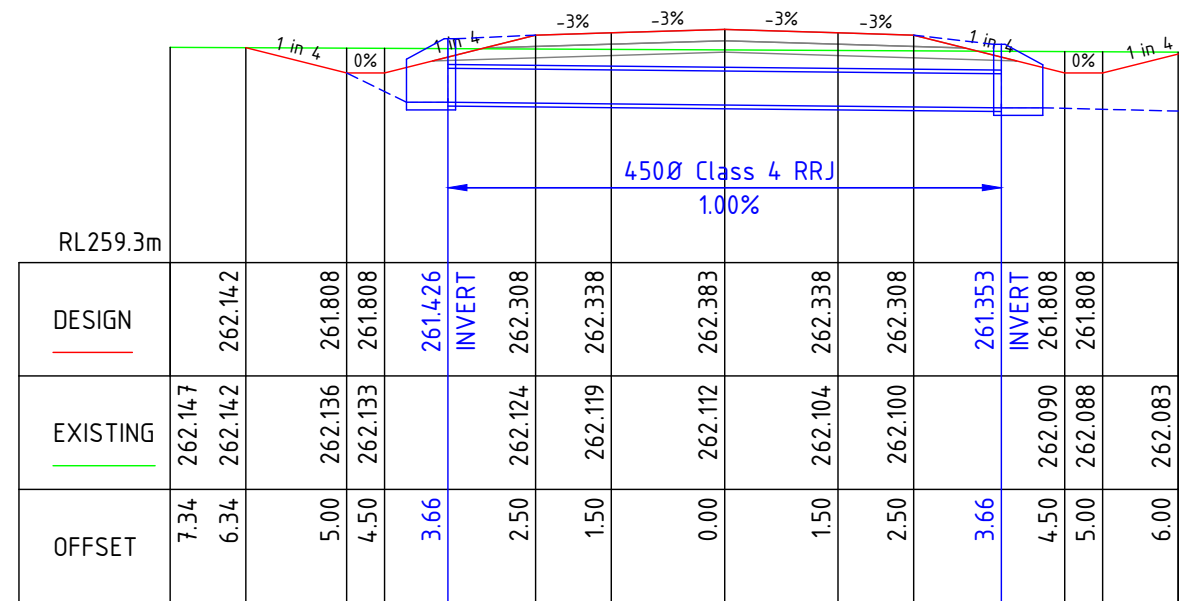
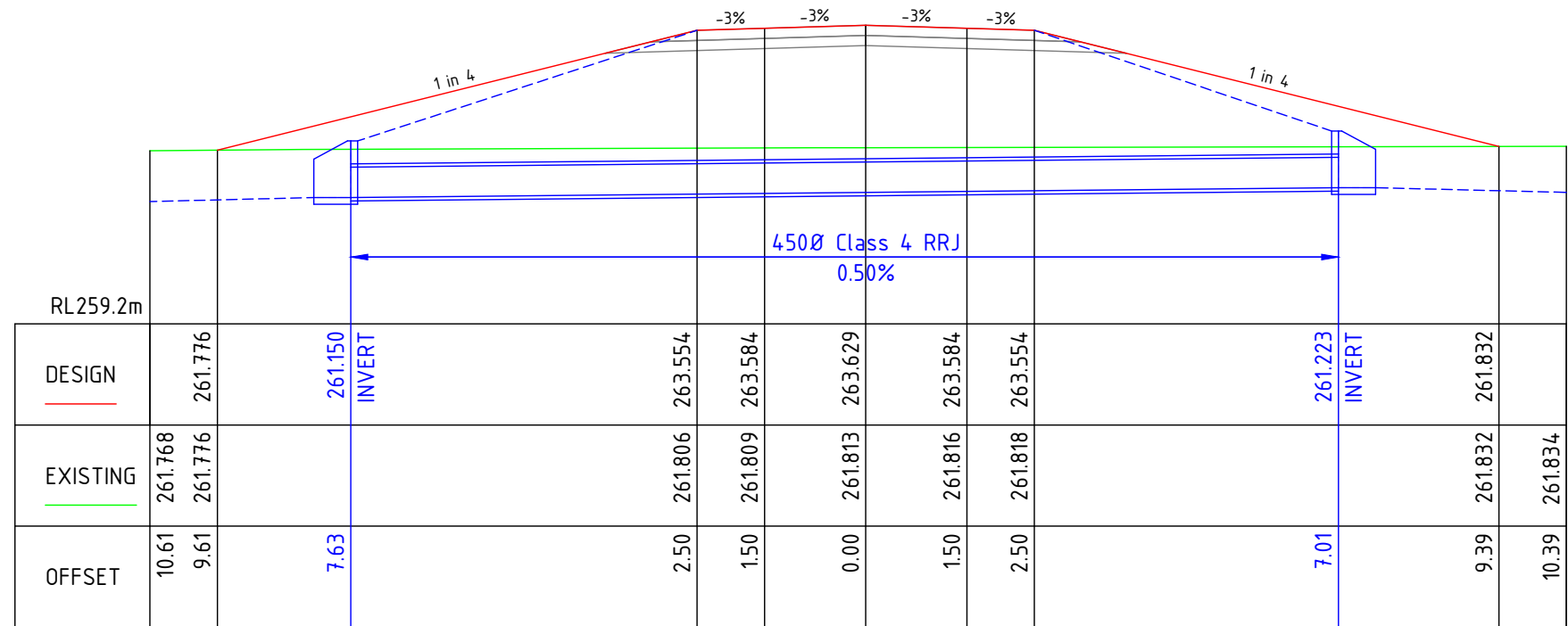


CULVERT No.4 (ROAD 2 - CH 541.76)

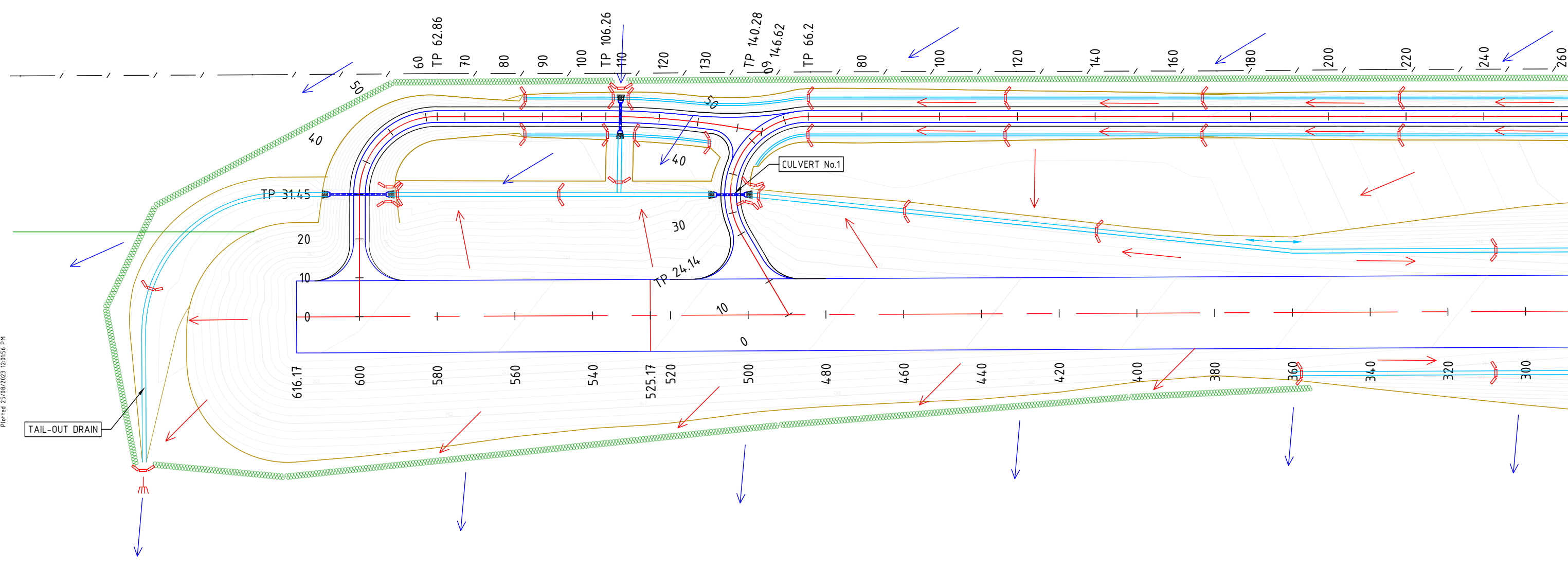


450mm RCP

SCALE: 1:100 OR AS SHOWN		REV.	DESCRIPTION	DATE	 REGIONAL engineering SERVICES	CLIENT: BLAND SHIRE COUNCIL	PROJECT: WESTERN WHEELERS MOTORSPORT PARK	SHEET No. 30	SHEETS 35
DATUM: AHD PROJECTION: GDA2020 (ZONE 55) SURVEYED BY:	D	AMENDED FOR COUNCIL APPROVAL	25-08-23	REGIONAL ENGINEERING SERVICES PO BOX 702 COOTAMUNDRA NSW 2590 PHONE 0407 351 404				SHEET TITLE: CULVERTS 1, 2 & 4 PROFILES	
	C	FOR COUNCIL APPROVAL	22-06-23						
	B	FOR REVIEW	19-06-23						
	A	DRAFT - FOR COUNCIL COMMENT	17-04-23						



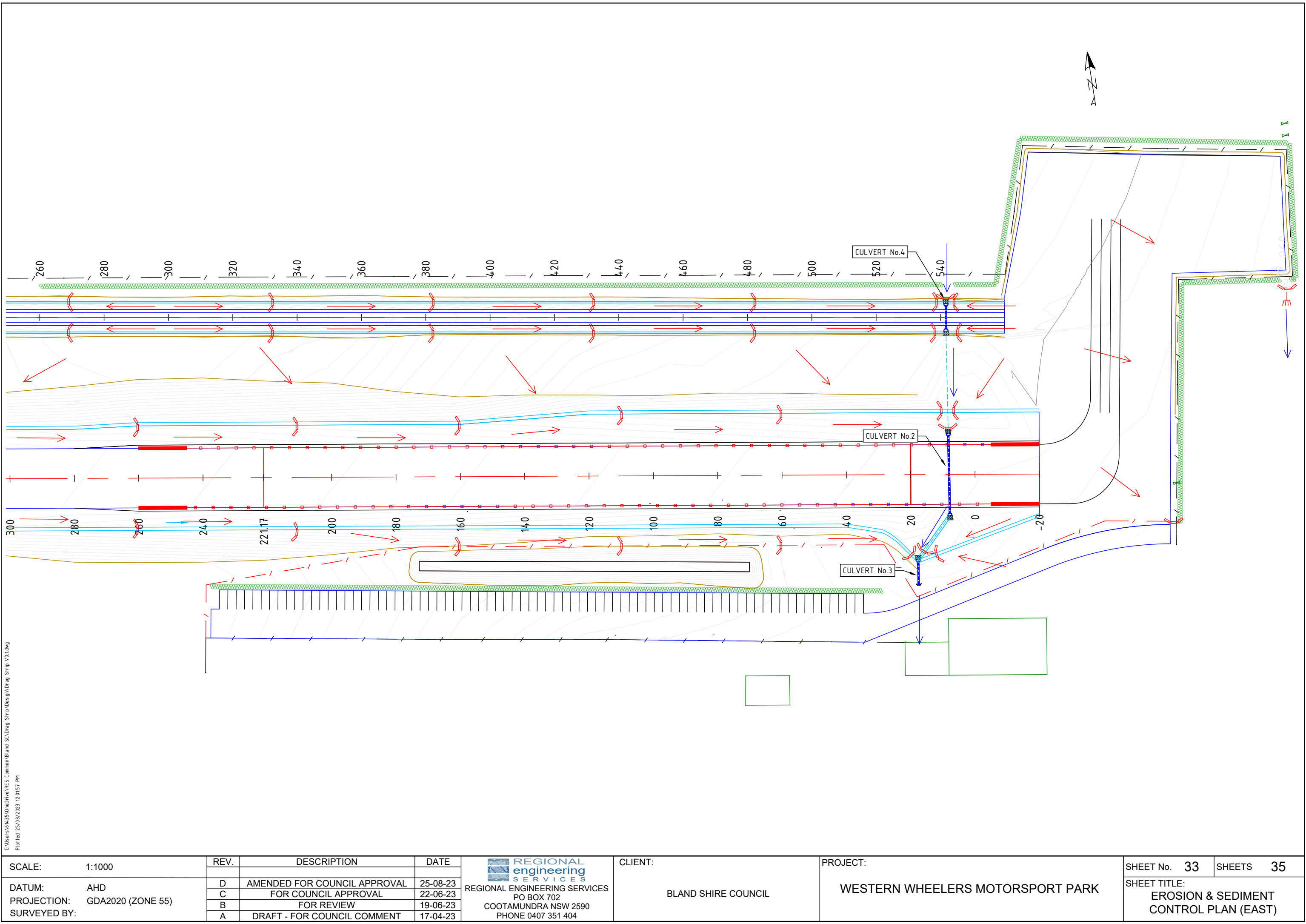
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DATUM:	AHD	D	AMENDED FOR COUNCIL APPROVAL	25-08-23				SHEET TITLE: CULVERTS 5 & 6 PROFILES	
PROJECTION:	GDA2020 (ZONE 55)	C	FOR COUNCIL APPROVAL	22-06-23					
SURVEYED BY:		B	FOR REVIEW	19-06-23					
		A	DRAFT - FOR COUNCIL COMMENT	17-04-23					



LEGEND:

	'CLEAN' WATER FLOW LINE
	INDICATIVE 'DIRTY' WATER
	EARTH BUND
	STRAW BALES / COCONUT FIBRE LOGS
	LEVEL SPREADER

SCALE: 1:1000 DATUM: AHD PROJECTION: GDA2020 (ZONE 55) SURVEYED BY:	REV.	DESCRIPTION	DATE	 REGIONAL ENGINEERING SERVICES PO BOX 702 COOTAMUNDRA NSW 2590 PHONE 0407 351 404	CLIENT: BLAND SHIRE COUNCIL	PROJECT: WESTERN WHEELERS MOTORSPORT PARK	SHEET No. 32	SHEETS 35
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	C	FOR COUNCIL APPROVAL	22-06-23					
	B	FOR REVIEW	19-06-23					
	A	DRAFT - FOR COUNCIL COMMENT	17-04-23					



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SCALE: 1:1000 DATUM: AHD PROJECTION: GDA2020 (ZONE 55) SURVEYED BY:	REV.	DESCRIPTION	DATE	 REGIONAL ENGINEERING SERVICES PO BOX 702 COOTAMUNDRA NSW 2590 PHONE 0407 351 404	CLIENT: BLAND SHIRE COUNCIL	PROJECT: WESTERN WHEELERS MOTORSPORT PARK	SHEET No. 33	SHEETS 35
	D	AMENDED FOR COUNCIL APPROVAL	25-08-23				SHEET TITLE: EROSION & SEDIMENT CONTROL PLAN (EAST)	
	C	FOR COUNCIL APPROVAL	22-06-23					
	B	FOR REVIEW	19-06-23					
	A	DRAFT - FOR COUNCIL COMMENT	17-04-23					

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1. GENERAL INSTRUCTIONS

1.1 LEGAL RESPONSIBILITIES

- (i) NOTE THAT SD REFERS TO STANDARD DRAWINGS.
- (j) CONTRACTORS WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE GUIDELINES STATED IN LANDCOM, 2004 (THE BLUE BOOK).
- (iii) ALL SUBCONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS.

1.2 EROSION CONTROL

- (i) SITE DISTURBANCE WILL BE LIMITED IN EXTENT AND NATURE TO THAT DESCRIBED IN THIS SWMP.
- (ii) VEHICULAR ACCESS TO THE SITE WILL BE RESTRICTED TO THOSE VEHICLES THAT ARE ESSENTIAL FOR EFFICIENT CONSTRUCTION.
- (iii) THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS PRACTICABLE BY MINIMISING LAND DISTURBANCE.
- (iv) LIMIT DISTURBANCE TO THAT ESSENTIAL FOR WORKS BEING UNDERTAKEN AT ANY GIVEN TIME.

1.3 SEDIMENT CONTROL

- (i) SEDIMENT FENCING (SD 6-8) WILL BE INSTALLED AS SHOWN OR ELSEWHERE AT THE DISCRETION OF THE SITE MANAGER.
- (ii) SEDIMENT REMOVED FROM ANY TRAPPING DEVICE WILL BE DISPOSED IN LOCATIONS WHERE FURTHER EROSION AND CONSEQUENT POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS WILL NOT OCCUR.
- (iii) RECEPTACLES WILL BE PROVIDED FOR WASTE MATERIALS AND LITTER.
- (iv) SAFE STORAGE AREAS WILL BE PROVIDED FOR FUELS, OILS, FERTILISERS, CHEMICALS AND OTHER HAZARDOUS MATERIALS AS REQUIRED.
- (v) NOTE THAT A SEDIMENT BASIN IS NOT REQUIRED AT THIS SITE.

2. WORKS PROGRAM

2.1 STAGE 1 – SECURING THE SITE

- (i) INSTALL THE STABILISED ACCESS (SD 6-14).
- (ii) INSTALL A SITE OFFICE (IF REQUIRED).
- (iii) INSTALL SEDIMENT AND BARRIER FENCES (SD 6-8) IN THE LOCATION SHOWN.
- (iv) INSTALL CLEAN WATER DIVERSION DRAINS (SD 5-6). NOTE THESE MAY BE CONSTRUCTED TO LATER ACT AS THE FORMAL ROADSIDE DRAINAGE (SUBJECT TO THE ENGINEERING PLANS).
- (v) DELINEATE PARKING AND STOCKPILE LOCATIONS.

2.2 STAGE 2 – CONSTRUCTION / INSTALLATION

- (i) STRIP AND STOCKPILE TOPSOIL FROM THE ROAD CORRIDOR. STOCKPILES ARE TO BE LOCATED AS SHOWN AND ARE TO BE CONSTRUCTED AS PER SD 4-1.
- (ii) CONDUCT EARTHWORKS AND ROAD CONSTRUCTION ACTIVITIES AND CONSTRUCT THE LONG-TERM ROAD DRAINAGE.
- (iii) UNDERTAKE ONGOING MONITORING AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL WORKS AS DETAILED.

2.3 STAGE 3 – SITE REHABILITATION

- (i) AS WORKS ARE COMPLETED, PROGRESSIVELY STABILISE EXPOSED SOILS
- (ii) REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ONLY AFTER PERMANENT VEGETATIVE STABILISATION IS COMPLETE.
- (iii) UNDERTAKE ONGOING MONITORING AND MAINTENANCE OF REVEGETATION AND STABILISATION WORKS AS DETAILED BELOW.

3. STABILISATION

- (i) AREAS OF CONCENTRATED FLOW (DRAINAGE DEPRESSIONS AND DIVERSION DRAINS) WILL BE STABILISED BEFORE THEY CARRY ANY FLOW.
- (ii) DIVERSION DRAINS ARE TO BE LINED WITH JUTE OR COCONUT FIBRE MATTING IMMEDIATELY FOLLOWING CONSTRUCTION.
- (iii) FOLLOWING THE COMPLETION OF EARTHWORKS AND ROAD CONSTRUCTION, AREAS OF EXPOSED SOILS ARE TO BE LEFT IN A ROUGH CONDITION TO FACILITATE KEYING-IN OF TOP SOIL.
- (iv) REPLACE TOPSOIL OVER EXPOSED SOIL AREAS TO A DEPTH OF AT LEAST 75 MM (NB REDUCE THIS TO 50 MM WHERE BATTERS EXCEED 1(V) TO 2(H) (SD 4-2).
- (v) MONITOR VEGETATION AREAS AND WATER THEM AS REQUIRED.
- (w)

4. SITE MONITORING AND MAINTENANCE

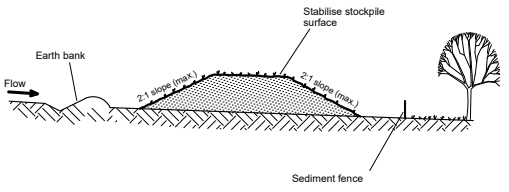
- (i) SITE MONITORING WILL BE UNDERTAKEN DURING AND AFTER CONSTRUCTION TO ENSURE THAT:
 - THIS PLAN IS BEING ADHERED TO; AND
 - REVEGETATION ACTIVITIES ARE SUCCESSFUL.
- (ii) WASTE RECEPTACLES WILL BE EMPTIED AS NECESSARY.
- (iii) A SELF-AUDITING PROGRAM WILL BE INITIATED FOR THE SITE. THIS SITE SUPERINTENDENT WILL INSPECT THE SITE AT LEAST WEEKLY AND FOLLOWING ANY RAIN EVENTS EXCEEDING 2 MM. AN INSPECTION LOG WILL BE MAINTAINED. INSPECTIONS WILL PAY PARTICULAR ATTENTION TO:
 - REMOVAL OF SPILLED SAND OR OTHER MATERIALS FROM NEAR HAZARD AREAS.
 - ENSURING BARRIER FENCING IS MAINTAINED AND EXCLUSION ZONES ARE BEING OBSERVED BY ALL SITE WORKERS AND CONTRACTORS.
 - ENSURING PROGRESSIVE AND PROMPT REHABILITATION OF LANDS, THAT REHABILITATION HAS EFFECTIVELY REDUCED THE EROSION HAZARD AND UPGRADING OR REPAIR AS APPROPRIATE.

- CONSTRUCTING ADDITIONAL EROSION AND / OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED WATER CONTROL IS ACHIEVED, I.E. MAKE ONGOING CHANGES TO THE SWMP.
- MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES IN A FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.
- REMOVAL OF TRAPPED SEDIMENT AND DISPOSAL TO SAFE AREAS.
- REMOVAL OF TEMPORARY SOIL CONSERVATION STRUCTURES AS THE LAST ACTIVITY IN THE REHABILITATION PROGRAM.
- (iv) A RAIN GAUGE WILL BE INSTALLED AT THE SITE AND WILL BE MONITORED DAILY BY THE SITE SUPERINTENDENT TO DETERMINE THE SEVERITY OF ANY RAIN EVENTS.
- (v) REVEGETATION AREAS WILL BE INSPECTED REGULARLY TO INVESTIGATE FAILURES AND PROGRAM NECESSARY REPLANTING OR RESPRAYING AS NECESSARY.
- (vi) AN ADEQUATE WATERING AND FERTILISING SYSTEM WILL BE MAINTAINED IN REVEGETATION AREAS.
- (vii) AREAS OF LOCALISED SOIL EROSION WILL BE IDENTIFIED AND APPROPRIATE PREVENTIVE MEASURES IMLEMENTED. THESE MIGHT INCLUDE:
 - PLANTING ADDITIONAL STABILISING VEGETATION.
 - STABILISING SOILS WITH MULCHES OR ALTERNATIVE SOIL BINDERS.
 - TAKING STEPS TO MINIMISE ANY CONCENTRATED STORMWATER FLOWS.
- (viii) ANY AREAS OF LOCALISED POOR DRAINAGE WILL BE IDENTIFIED AND APPROPRIATE REMEDIAL ACTION TAKEN. THIS MIGHT INCLUDE:
 - INSTALLING FORMALISED DRAINAGE CHANNELS OR PIPES.
 - IMPROVING SOIL PERMEABILITY BY CULTIVATING THE SOIL SURFACE.
 - IMPROVING SOIL PERMEABILITY BY INSTALLING INFILTRATION TRENCHES.
 - PLANTING MOISTURE TOLERANT VEGETATION IN PROBLEM AREAS.

SCALE:	REV.	DESCRIPTION	DATE	 REGIONAL ENGINEERING SERVICES PO BOX 702 COOTAMUNDRA NSW 2590 PHONE 0407 351 404	CLIENT: BLAND SHIRE COUNCIL	PROJECT: WESTERN WHEELERS MOTORSPORT PARK	SHEET No. 34	SHEETS 35
	D	AMENDED FOR COUNCIL APPROVAL	25-08-23				SHEET TITLE: EROSION & SEDIMENT CONTROL NOTES	
DATUM: AHD	C	FOR COUNCIL APPROVAL	22-06-23					
PROJECTION: GDA2020 (ZONE 55)	B	FOR REVIEW	19-06-23					
SURVEYED BY:	A	DRAFT - FOR COUNCIL COMMENT	17-04-23					

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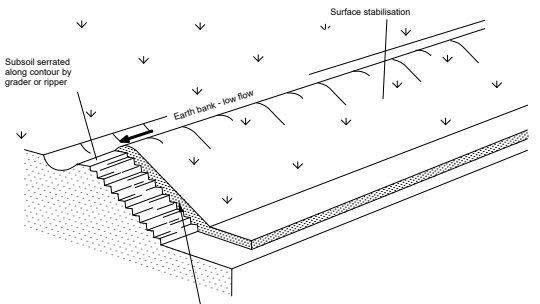
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Construction Notes

- Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
- Construct on the contour as low, flat, elongated mounds.
- Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
- Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
- Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

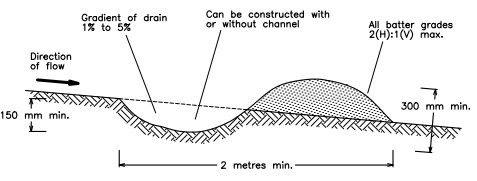
STOCKPILES **SD 4-1**



Construction Notes

- Scarify the ground surface along the line of the contour to a depth of 50 mm to 100 mm to break up any hardsetting surfaces and to provide a good bond between the respread material and subsoil.
- Add soil ameliorants as required by the ESCP or SWMP.
- Rip to a depth of 300 mm if compacted layers occur.
- Where possible, replace topsoil to a depth of 40 to 60 mm on lands where the slope exceeds 4(H):1(V) and to at least 75 mm on lower gradients.

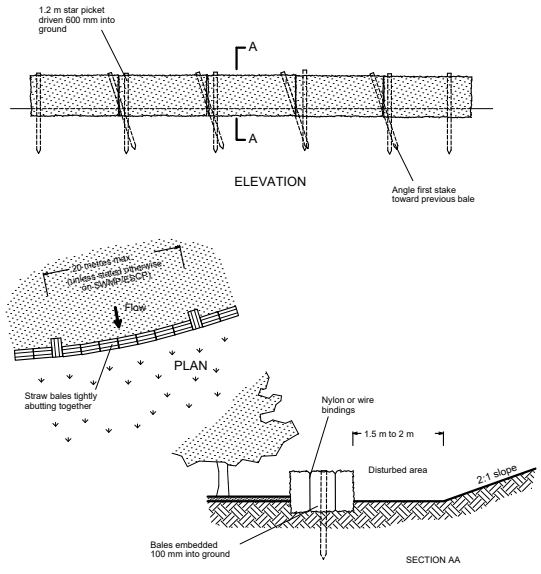
REPLACING TOPSOIL **SD 4-2**



Construction Notes

- Build with gradients between 1 percent and 5 percent.
- Avoid removing trees and shrubs if possible - work around them.
- Ensure the structures are free of projections or other irregularities that could impede water flow.
- Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
- Ensure the banks are properly compacted to prevent failure.
- Complete permanent or temporary stabilisation within 10 days of construction.

EARTH BANK (LOW FLOW) **SD 5-5**



Construction Notes

- Construct the straw bale filter as close as possible to being parallel to the contours of the site.
- Place bales lengthwise in a row with ends tightly abutting. Use straw to fill any gaps between bales. Straws are to be placed parallel to ground.
- Ensure that the maximum height of the filter is one bale.
- Embed each bale in the ground 75 mm to 100 mm and anchor with two 1.2 metre star pickets or stakes. Angle the first star picket or stake in each bale towards the previously laid bale. Drive them 600 mm into the ground and, if possible, flush with the top of the bales. Where star pickets are used and they protrude above the bales, ensure they are fitted with safety caps.
- Where a straw bale filter is constructed downslope from a disturbed batter, ensure the bales are placed 1 to 2 metres downslope from the toe.
- Establish a maintenance program that ensures the integrity of the bales is retained - they could require replacement each two to four months.

STRAW BALE FILTER **SD 6-7**

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DATUM: AHD PROJECTION: GDA2020 (ZONE 55) SURVEYED BY:	D	AMENDED FOR COUNCIL APPROVAL	25-08-23	SHEET TITLE: EROSION & SEDIMENT CONTROL DETAILS					
	C	FOR COUNCIL APPROVAL	22-06-23						
	B	FOR REVIEW	19-06-23						
	A	DRAFT - FOR COUNCIL COMMENT	17-04-23						