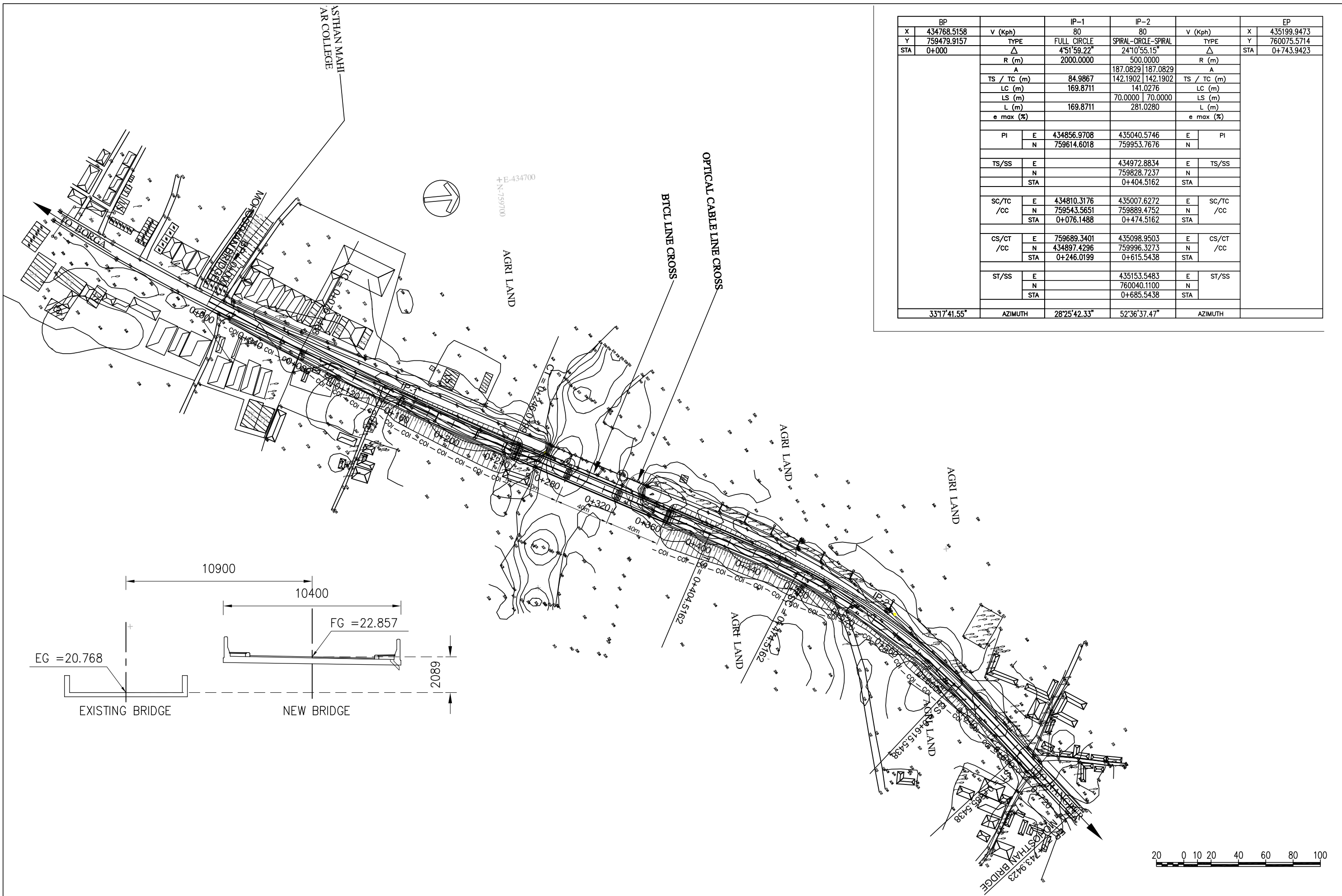
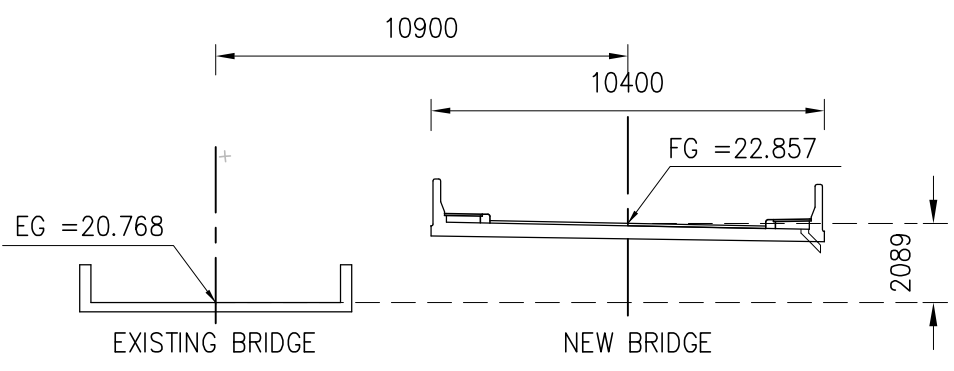
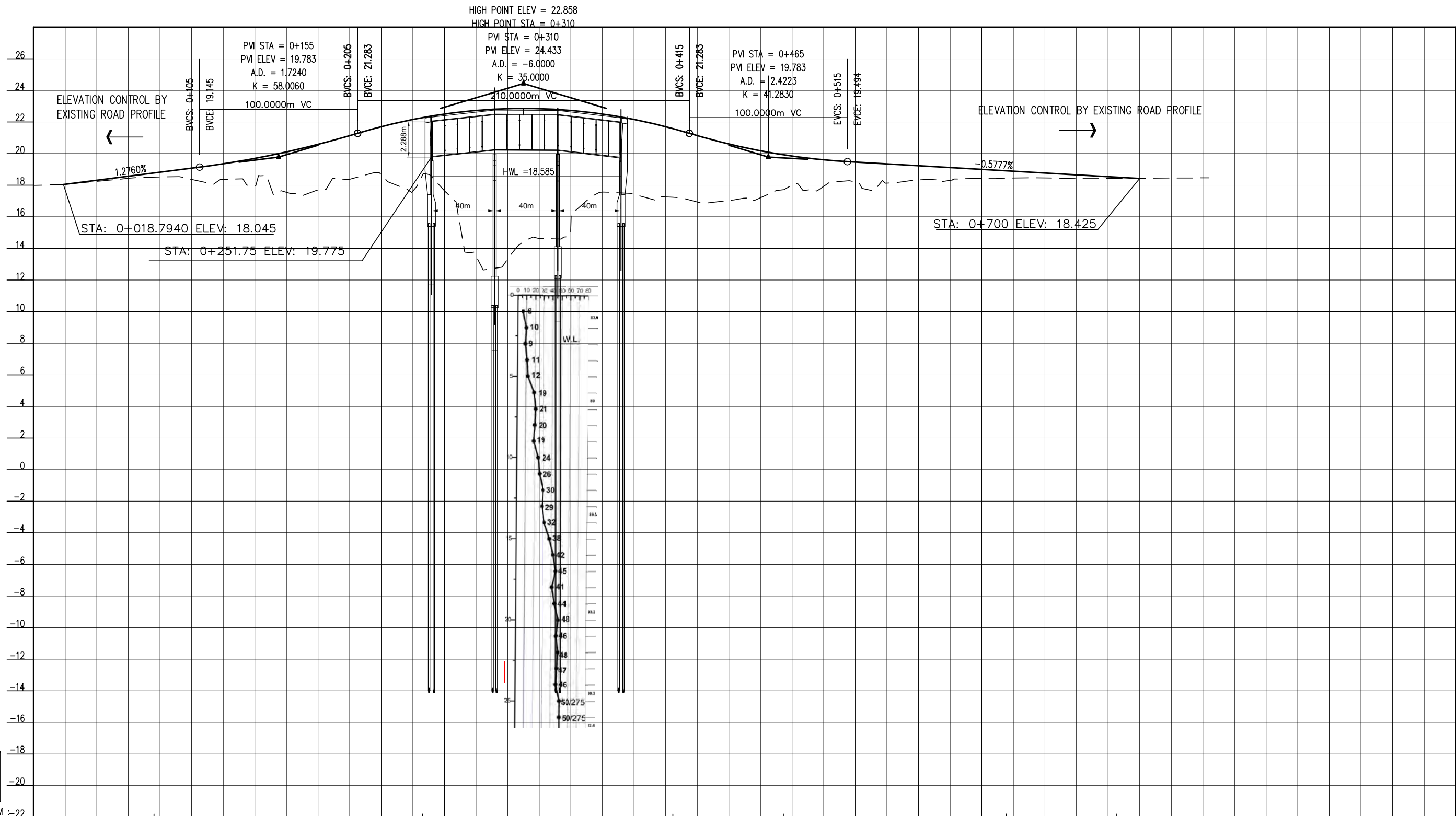


## **B. Plan and Profile**



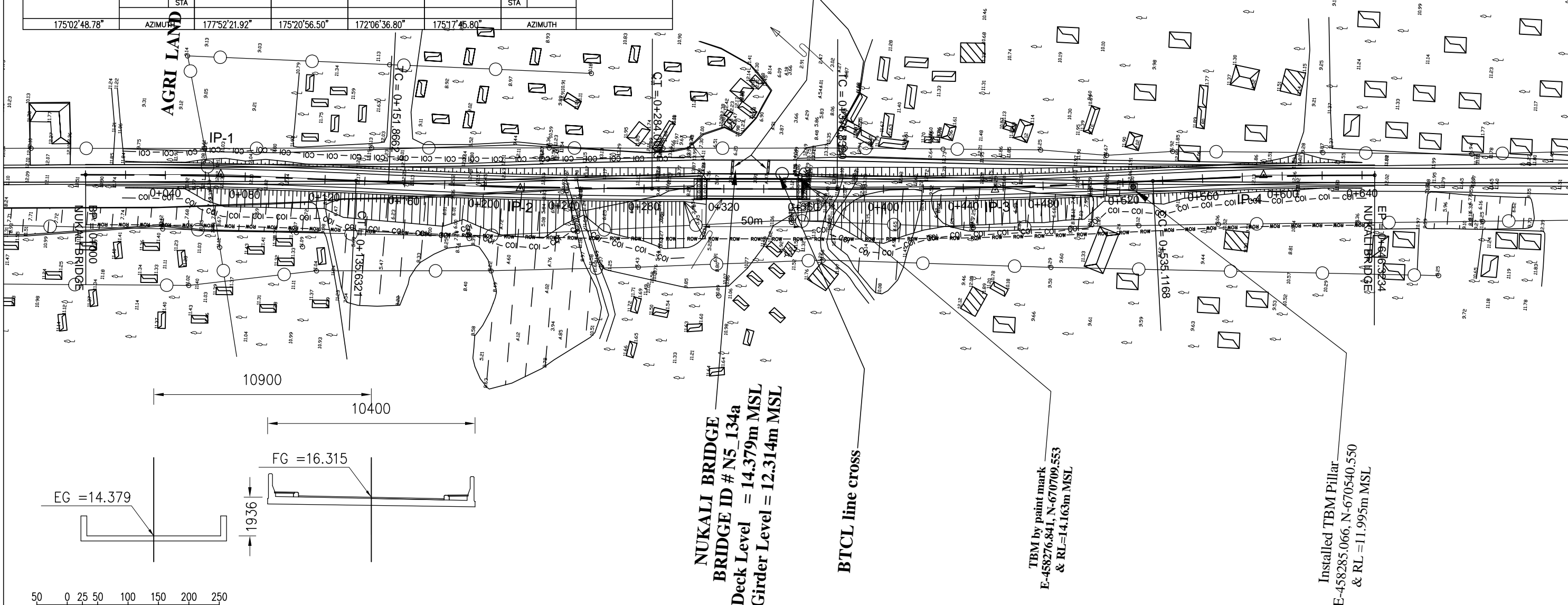
BP		IP-1		IP-2		EP	
X	434768.5158	V (Kph)	80	80	V (Kph)	X	435199.9473
Y	759479.9157	TYPE	FULL CIRCLE	SPRAL-CIRCLE-SPRAL	TYPE	Y	760075.5714
STA	0+000	$\Delta$	4°51'59.22"	24°10'55.15"	$\Delta$	STA	0+743.9423
		R (m)	2000.0000	500.0000	R (m)		
		A		187.0829   187.0829	A		
		TS / TC (m)	84.9867	142.1902   142.1902	TS / TC (m)		
		LC (m)	169.8711	141.0276	LC (m)		
		LS (m)		70.0000   70.0000	LS (m)		
		L (m)	169.8711	281.0280	L (m)		
		e max (%)			e max (%)		
		PI	E 434856.9708	435040.5746	E	PI	
			N 759614.6018	759953.7676	N		
		TS/SS	E	434972.8834	E	TS/SS	
			N	759828.7237	N		
		STA		0+404.5162	STA		
		SC/TC /CC	E 434810.3176	435007.6272	E	SC/TC /CC	
			N 759543.5651	759889.4752	N		
			STA 0+076.1488	0+474.5162	STA		
		CS/CT /CC	E 759689.3401	435098.9503	E	CS/CT /CC	
			N 434897.4296	759996.3273	N		
			STA 0+246.0199	0+615.5438	STA		
		ST/SS	E	435153.5483	E	ST/SS	
			N	760040.1100	N		
			STA	0+685.5438	STA		
		33°17'41.55"	AZIMUTH	28°25'42.33"	52°36'37.47"	AZIMUTH	





HORIZONTAL ALIGNMENT	0+000.000	TC	0+076.149	R=2000.000	CT	0+246.020	IS	0+404.516	A=187.083	SC	0+474.516	R=500.000	SC	0+615.544	A=187.083	TC	0+685.544																				
FINISHED ROAD LEVEL	18.060	18.316	18.571	18.826	19.081	19.356	19.697	20.108	20.587	21.135	21.701	22.158	22.501	22.729	22.844	22.844	22.729	22.501	22.158	21.701	21.136	20.609	20.178	19.845	19.608	19.465	19.350	19.234	19.119	19.003	18.888	18.772	18.657	18.541			
EXISTING GROUND LEVEL	17.99	18.06	18.25	18.44	18.52	18.57	18.57	17.98	17.55	17.69	18.37	17.63	17.65	13.51	13.33	14.63	15.31	17.57	17.43	17.26	16.94	17.03	17.21	18.01	17.93	18.21	18.13	18.33	18.30	18.43	18.45	18.46	18.44	18.44	18.43	18.46	18.46
STATION @+000	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+320	0+360	0+400	0+440	0+480	0+520	0+560	0+600	0+640	0+680	0+720																		

BP		IP-1		IP-2		IP-3		IP-4		EP	
X	458247.2452	V (Kph)	80	80	80	80	V (Kph)		X	458301.0408	
Y	671064.2712	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE		Y	670420.4319	
STA	0+000	$\Delta$	2'49'33.13"	2'31'25.42"	3'14'19.69"	3'11'09.00"	$\Delta$		STA	0+646.3234	
		R (m)	2750.0000	3000.0000	2800.0000	2000.0000	R (m)				
		A					A				
		TS / TC (m)	67.8298	66.0817	79.1600	55.6176	TS / TC (m)				
		LC (m)	135.6321	132.1421	158.2778	111.2066	LC (m)				
		LS (m)					LS (m)				
		L (m)	135.6321	132.1421	158.2778	111.2066	L (m)				
		e max (%)					e max (%)				
		PI	E	458253.1016	458258.6749	458277.9791	458296.4797	E	PI		
			N	670996.6947	670846.6525	670609.3640	670475.8622	N			
		TS/SS	E					E	TS/SS		
			N					N			
			STA					STA			
		SC/TC /cc	E	458247.2452	458256.2220	458271.5604	458288.8452	E	SC/TC /cc		
			N	671064.2712	670912.6887	670688.2633	670530.9533	N			
			STA	0+000	0+151.8662	0+376.8390	0+535.1168	STA			
		CS/CT /cc	E	670928.9116	670780.7884	670530.9533	670420.4319	E	CS/CT /cc		
			N	458255.6194	458264.0331	458288.8452	458301.0408	N			
			STA	0+135.6321	0+284.0083	0+535.1168	0+646.3234	STA			
		ST/SS	E					E	ST/SS		
			N					N			
			STA					STA			
		175°02'48.78"	AZIMUTH	177°52'21.92"	175°20'56.50"	172°06'36.80"	175°17'45.80"	AZIMUTH			

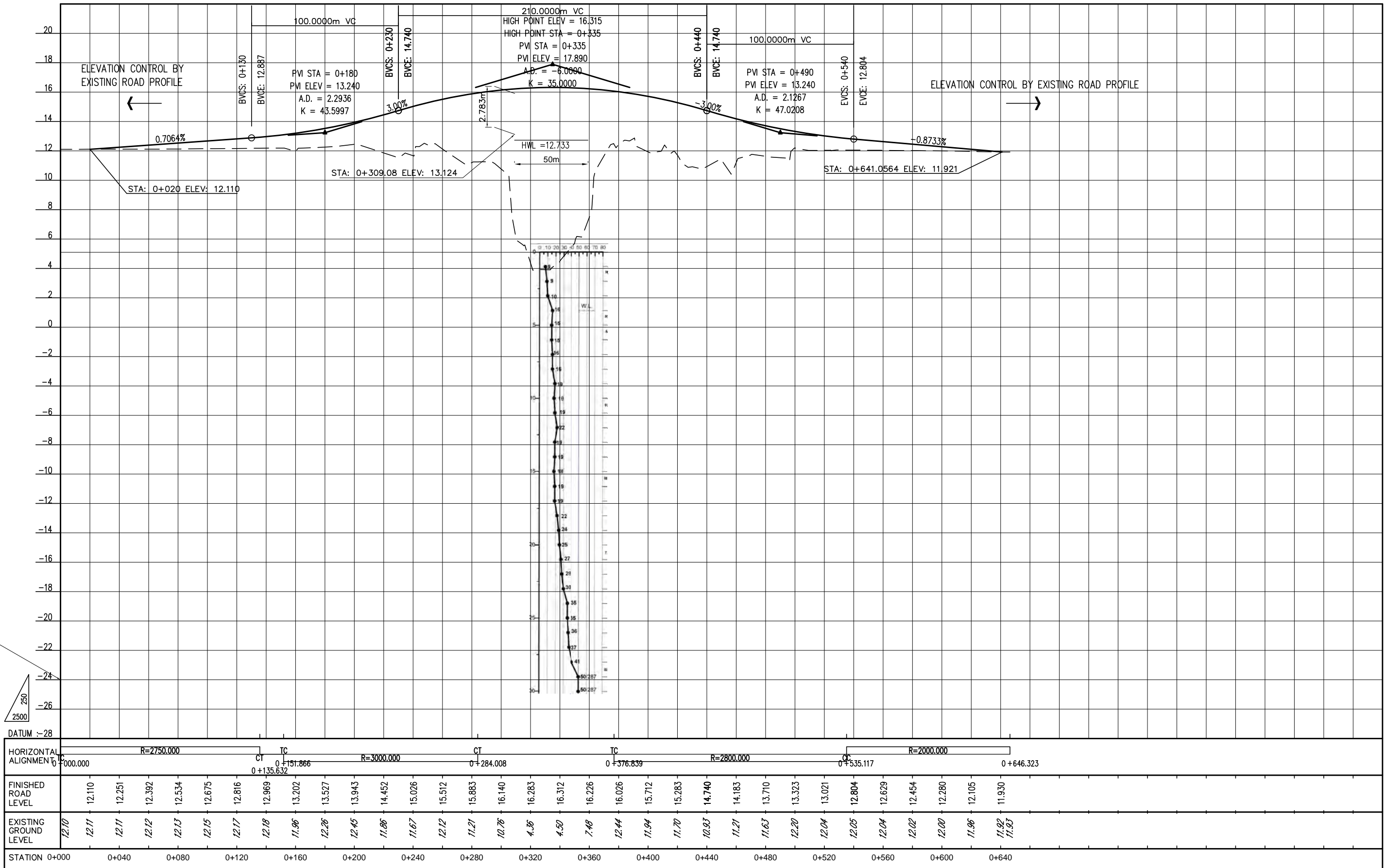


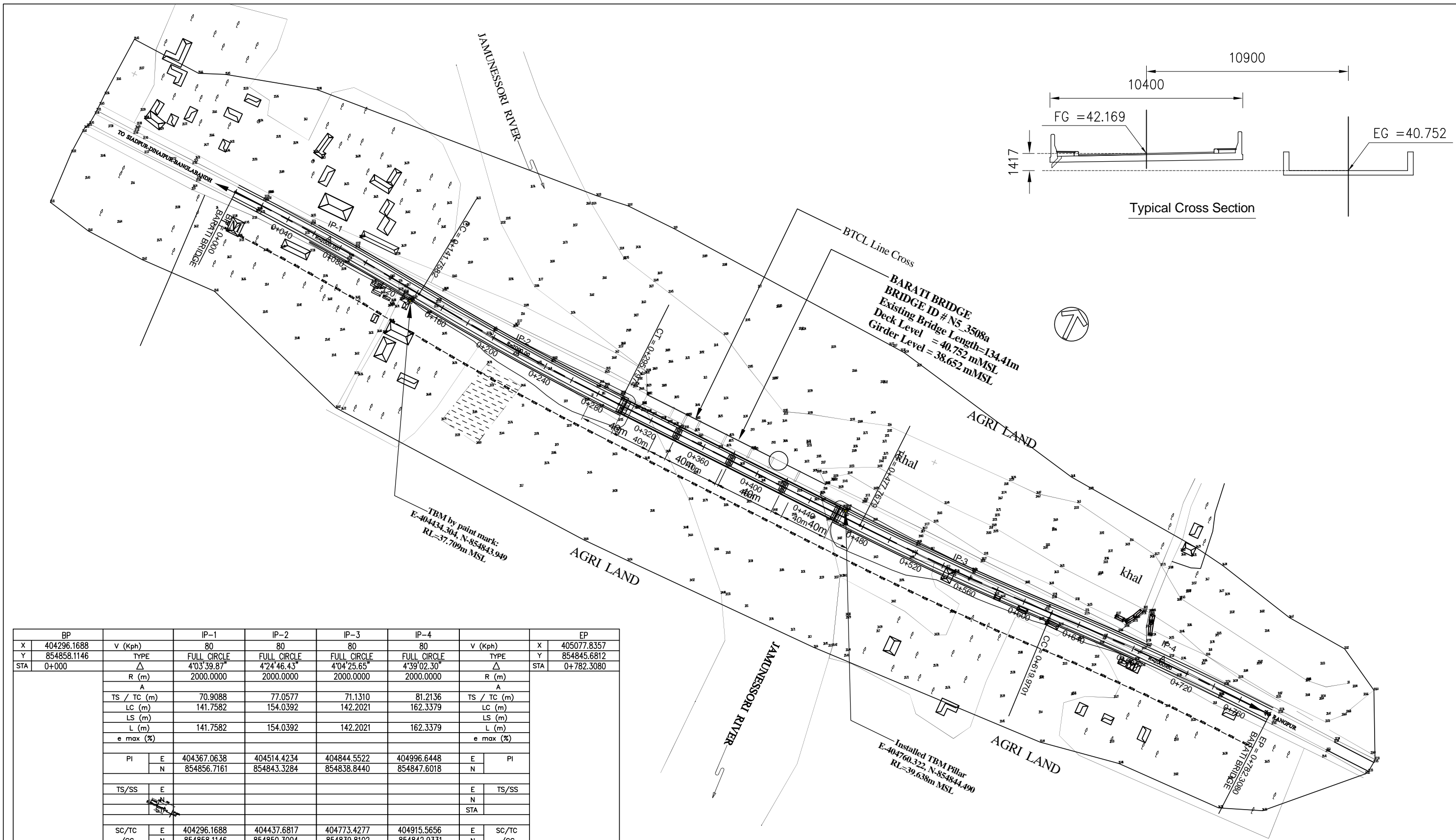
**NUKALI BRIDGE**  
**BRIDGE ID # N5\_134a**  
**Deck Level = 14.379m MSL**  
**Girder Level = 12.314m MSL**

**BTCL line cross**

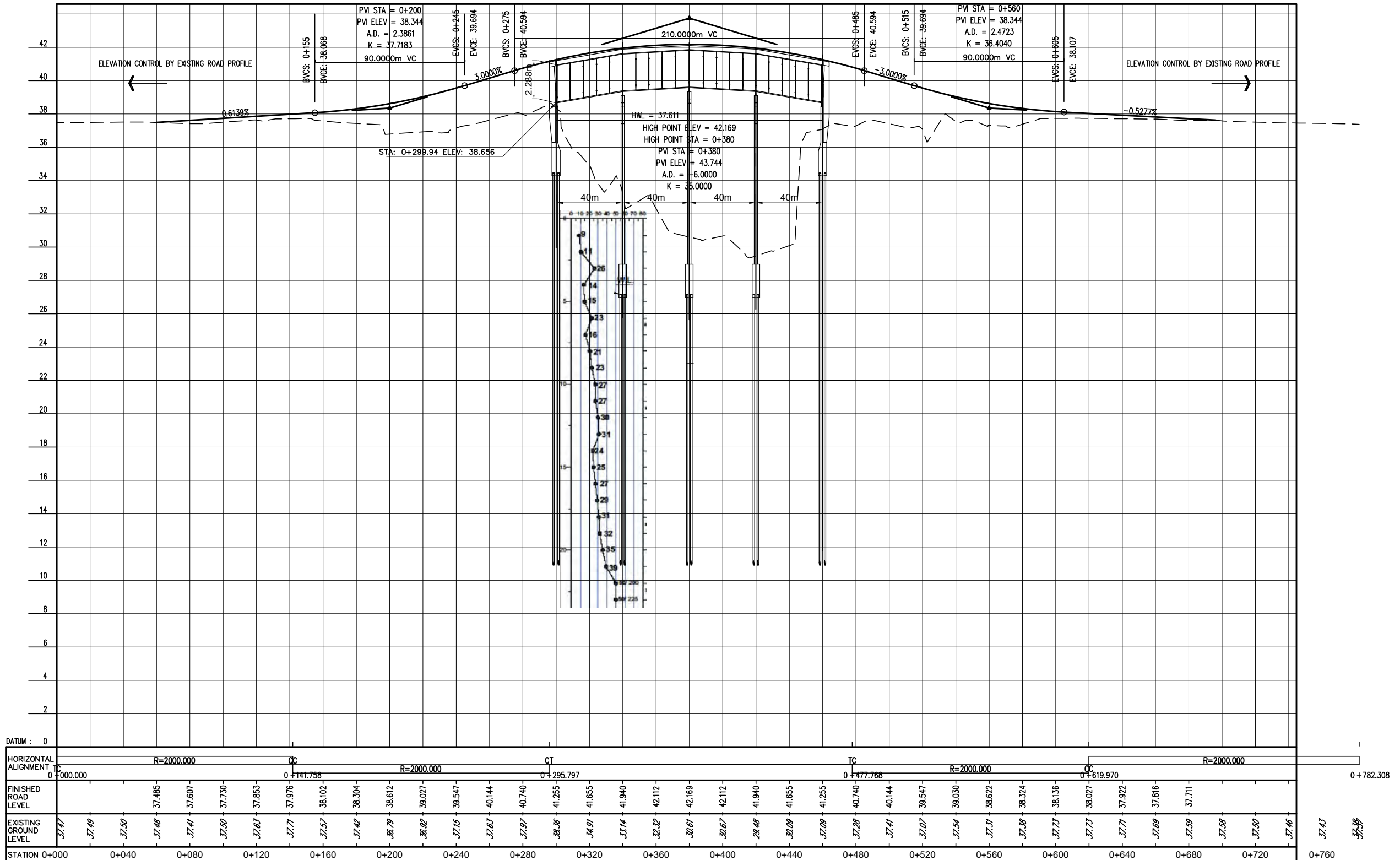
**TBM by paint mark**  
**E-458276.841, N-670709.553**  
**& RL=14.163m MSL**

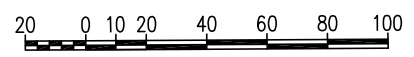
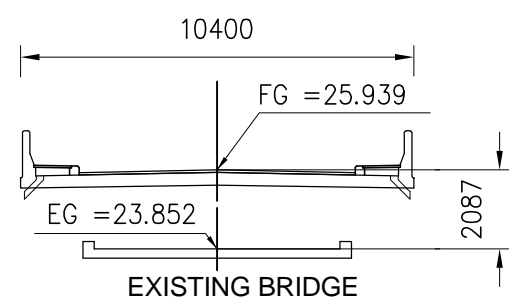
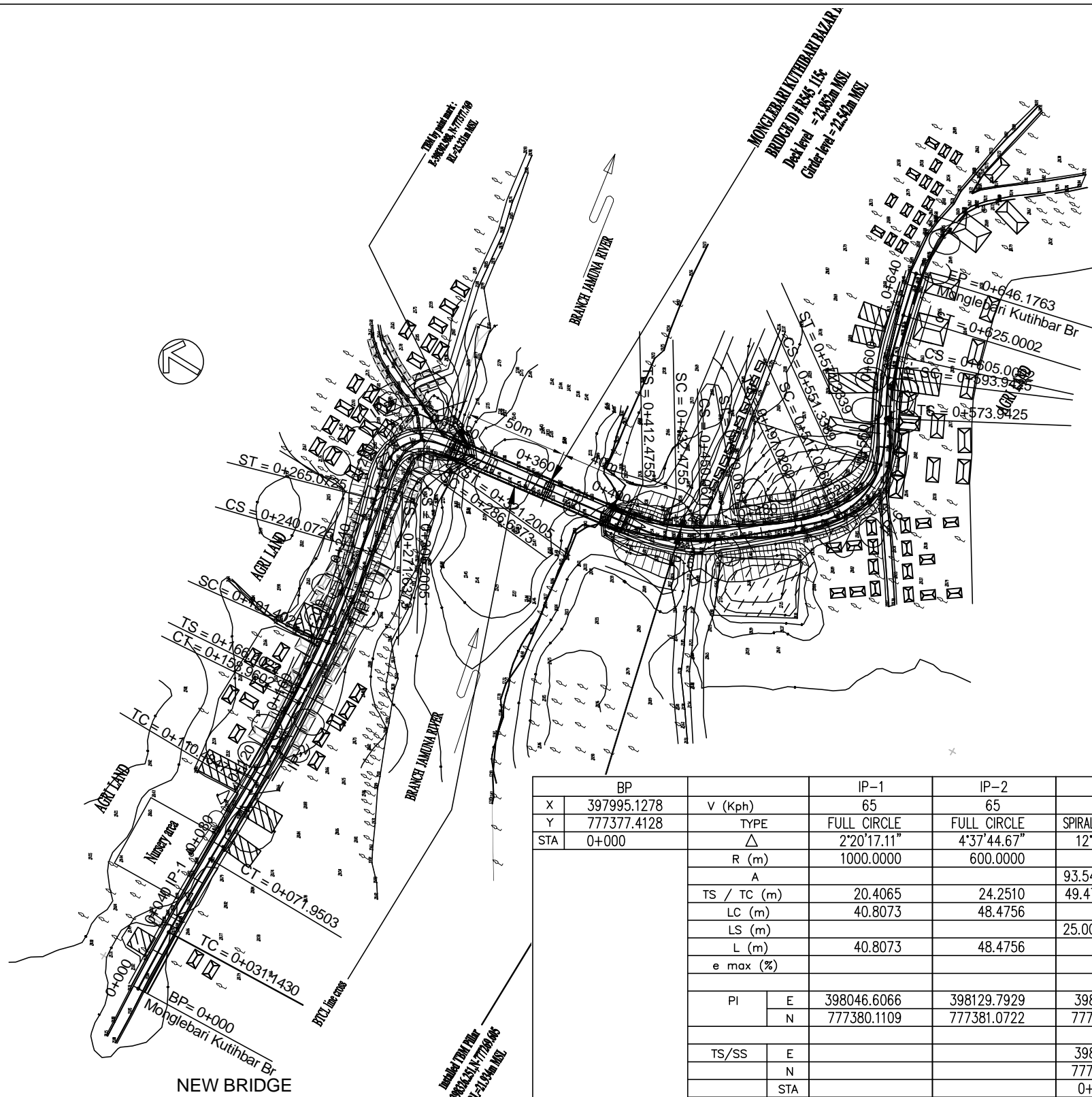
**Installed TBM Pillar**  
**E-458285.066, N-670540.550**  
**& RL = 11.995m MSL**





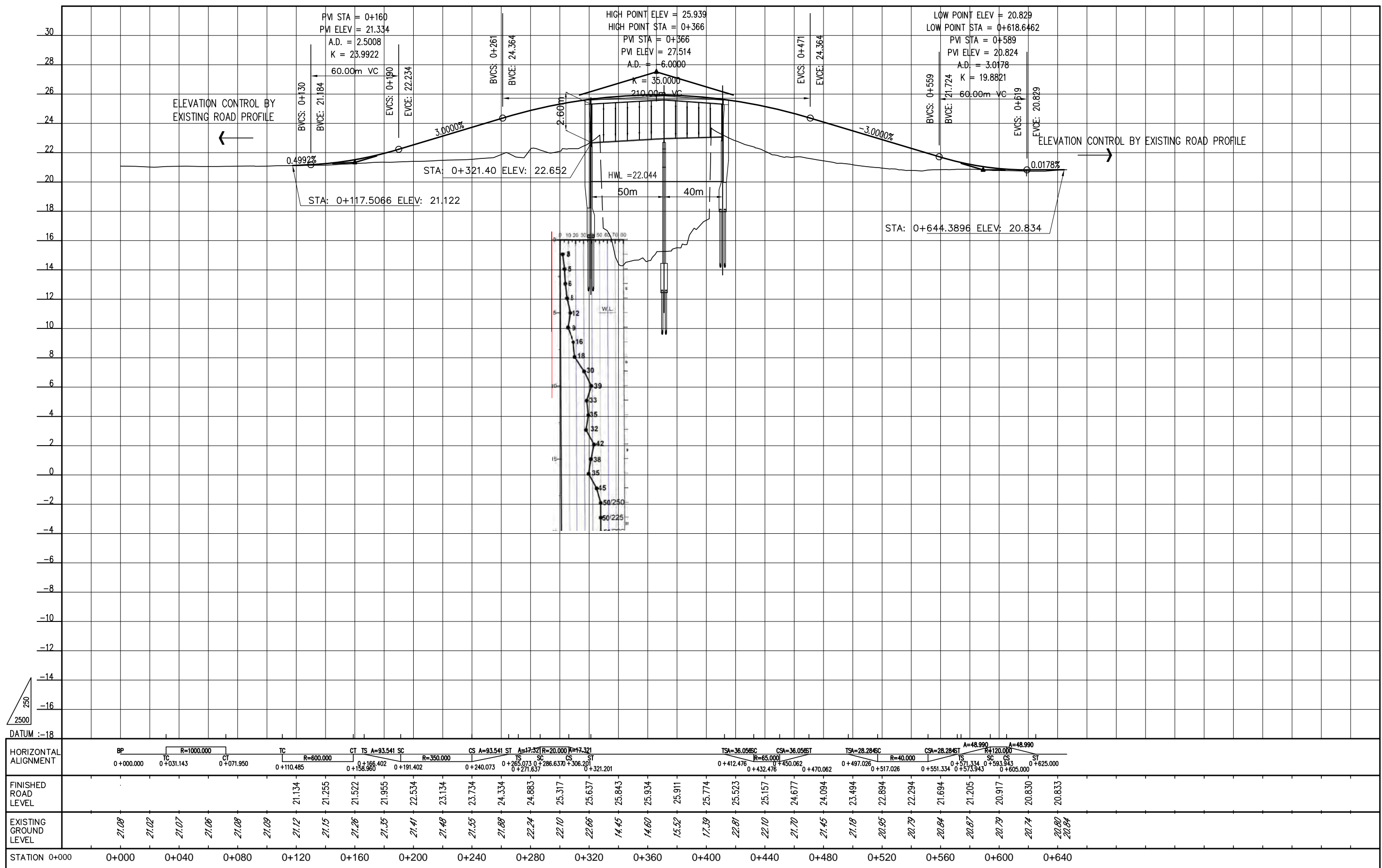
BP		IP-1		IP-2		IP-3		IP-4		EP	
X	404296.1688	v (Kph)	80	80	80	80	v (Kph)	80	80	X	405077.8357
Y	854858.1146	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE	FULL CIRCLE	FULL CIRCLE	Y	854845.6812
STA	0+000	Δ	4'03'39.87"	4'24'46.43"	4'04'25.65"	4'39'02.30"	Δ	4'03'39.87"	4'24'46.43"	STA	0+782.3080
		R (m)	2000.0000	2000.0000	2000.0000	2000.0000	R (m)	2000.0000	2000.0000		
		A					A				
		TS / TC (m)	70.9088	77.0577	71.1310	81.2136	TS / TC (m)	70.9088	77.0577		
		LC (m)	141.7582	154.0392	142.2021	162.3379	LC (m)	141.7582	154.0392		
		LS (m)					LS (m)				
		L (m)	141.7582	154.0392	142.2021	162.3379	L (m)	141.7582	154.0392		
		e max (%)					e max (%)				
		PI	E	404367.0638	404514.4234	404844.5522	404996.6448	E	404367.0638	PI	
			N	854856.7161	854843.3284	854838.8440	854847.6018	N	854856.7161		
		TS/SS	E					E		TS/SS	
			N					N			
			STA					STA			
		SC/TC	E	404296.1688	404437.6817	404773.4277	404915.5656	E	404296.1688	SC/TC	
		/CC	N	854858.1146	854850.3004	854839.8102	854842.9331	N	854858.1146	/CC	
			STA	0+000	0+141.7582	0+477.7679	0+619.9701	STA	0+000		
		CS/CT	E	854850.3004	854842.2817	854842.9331	854845.6812	E	854850.3004	CS/CT	
		/CC	N	404437.6817	404591.4739	404915.5656	405077.8357	N	404437.6817	/CC	
			STA	0+141.7582	0+295.7974	0+619.9701	0+782.3080	STA	0+141.7582		
		ST/SS	E					E		ST/SS	
			N					N			
			STA					STA			
	91°07'48.21"	AZIMUTH		95°11'28.08"	90°46'41.64"	86°42'16.00"	91°21'18.30"	AZIMUTH			

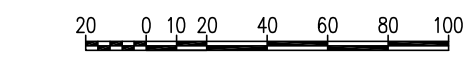
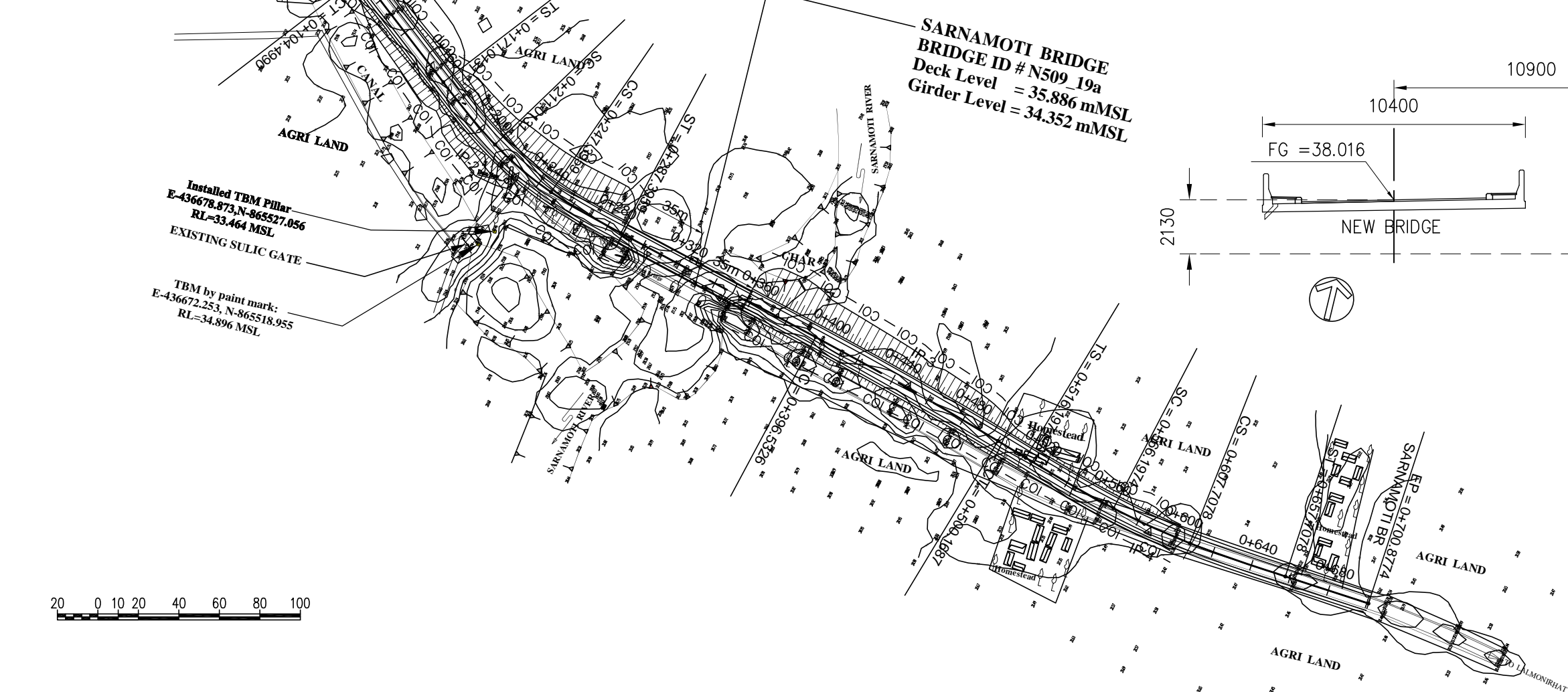
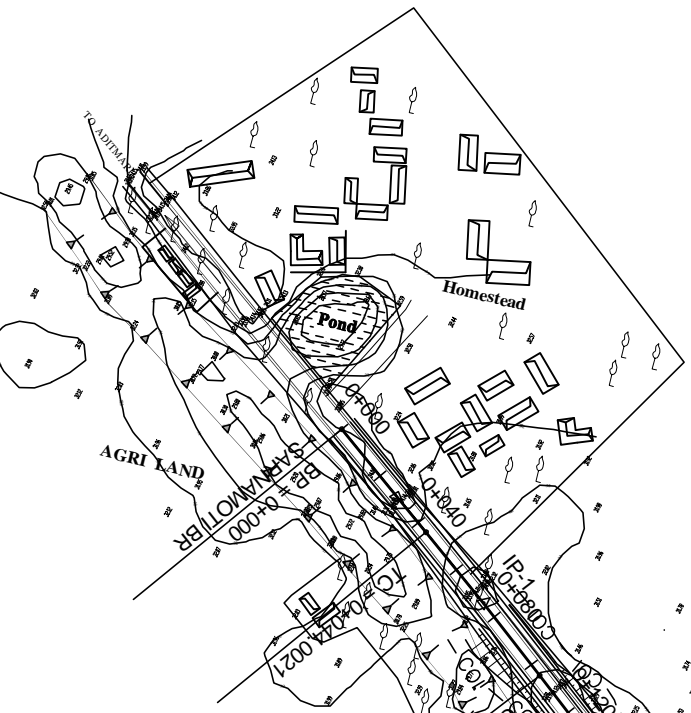




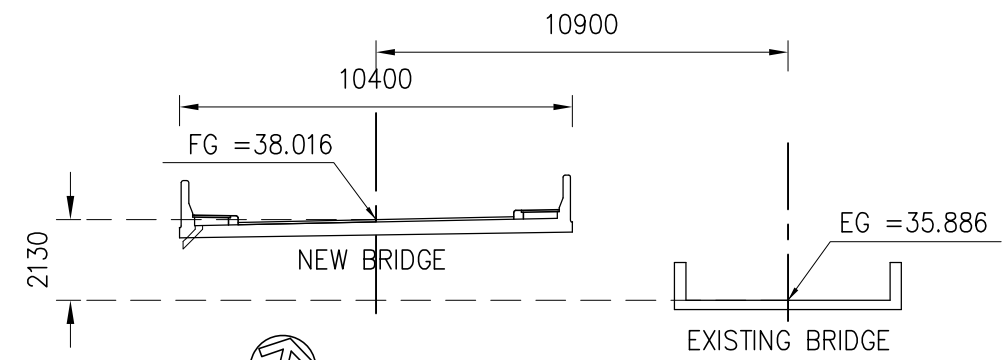
BP		IP-1	IP-2	IP-3	IP-4	IP-5	IP-6	EP				
X	397995.1278	v (Kph)	65	65	40	20	20	v (Kph)	X	398432.0617		
Y	777377.4128	TYPE	FULL CIRCLE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	TYPE	Y	777218.2060	
STA	0+000		2°20'17.11"	4°37'44.67"	12°03'35.95"	99°00'58.64"	33°07'52.22"	77°47'25.17"		STA	0+586.4841	
		R (m)	1000.0000	600.0000	350.0000	20.0000	65.0000	40.0000	R (m)			
		A			93.5414	93.5414	17.3205	17.3205	36.0555	36.0555	28.2843	28.2843
		TS / TC (m)	20.4065	24.2510	49.4791	49.4791	31.4350	31.4350	29.4032	29.4032	42.5850	42.5850
		LC (m)	40.8073	48.4756	48.6703		19.5632		17.5861		34.3079	
		LS (m)			25.0000	25.0000	15.0000	15.0000	20.0000	20.0000	20.0000	20.0000
		L (m)	40.8073	48.4756	98.6700	49.5630	57.5860		74.3080			
		e max (%)										
		PI	E	398046.6066	398129.7929	398210.6190	398294.1171	398316.1672	398381.6911	E	PI	
			N	777380.1109	777381.0722	777388.5577	777414.6462	777264.1397	777189.9898	N		
		TS/SS	E			398161.3508	398264.1126	398311.9049	398353.4924	E	TS/SS	
			N			777383.9948	777405.2715	777293.2323	777221.9008	N		
		STA				0+166.4022	0+271.6373	0+412.4755	0+497.0260	STA		
		SC/TC /CC	E	398026.2281	398105.5435	398186.2136	398278.7836	398315.8103	398367.8967	E	SC/TC /CC	
			N	777379.0428	777380.7920	777386.5963	777407.9106	777273.6387	777208.1059	N		
			STA	0+031.1430	0+110.4847	0+191.4022	0+286.6373	0+432.4755	0+517.0260	STA		
		CS/CT /CC	E	777380.3467	777383.3086	398233.8985	398294.6932	398323.1923	398400.6930	E	CS/CT /CC	
			N	398067.0117	398153.9405	777396.1430	777397.9084	777257.7360	777202.5360	N		
			STA	0+071.9503	0+158.9602	0+240.0725	0+306.2005	0+450.0617	0+551.3339	STA		
		ST/SS	E			398257.8465	398298.6738	398335.6372	398418.8440	E	ST/SS	
			N			777403.3137	777403.5433	777242.1065	777210.8019	N		
			STA			0+265.0725	0+321.2005	0+470.0617	0+571.3339	STA		
		86°59'59.34"	AZIMUTH	89°20'16.45"	84°42'31.78"	72°38'55.83"	171°39'54.46"	138°32'02.25"	60°44'37.08"	AZIMUTH		

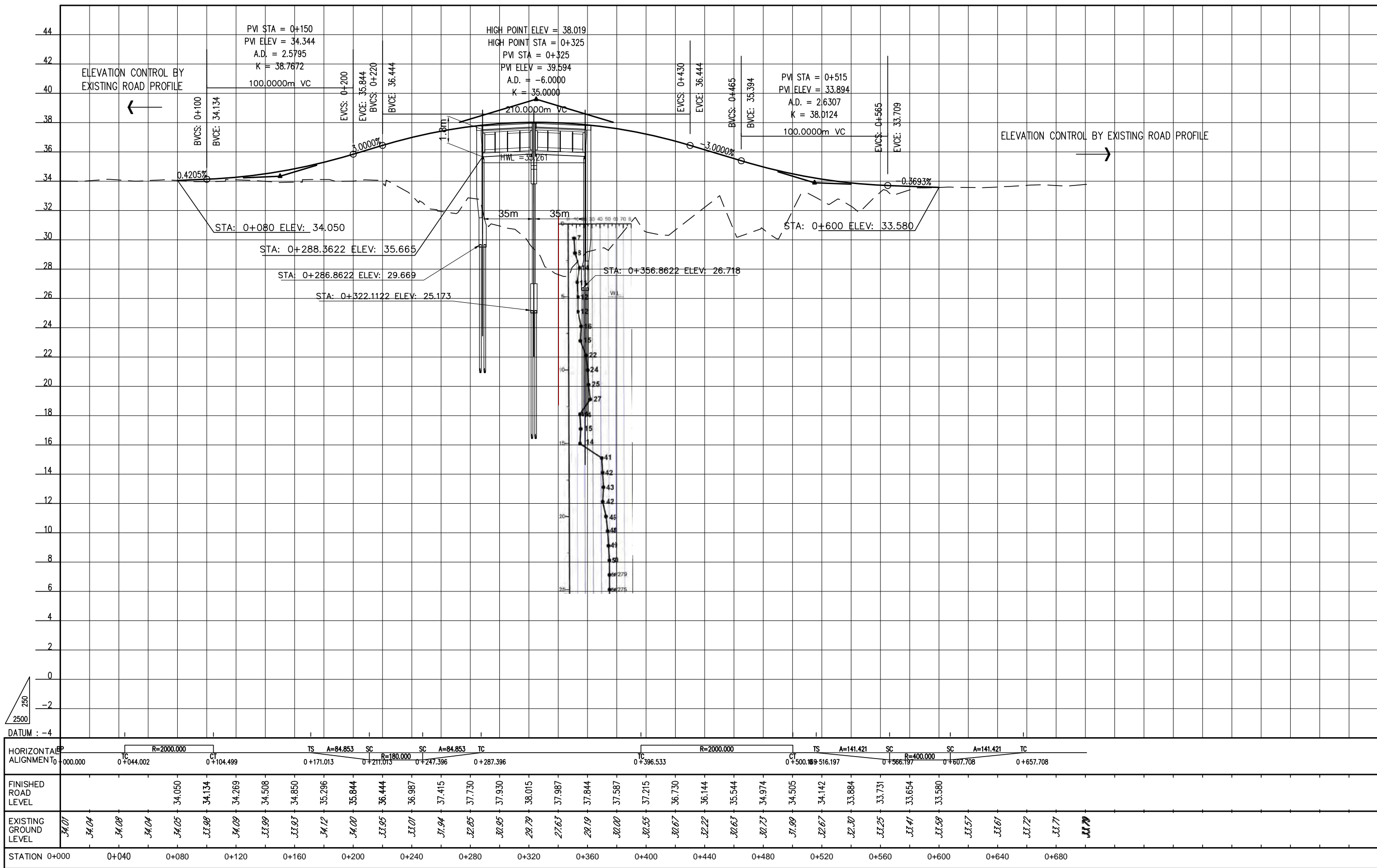


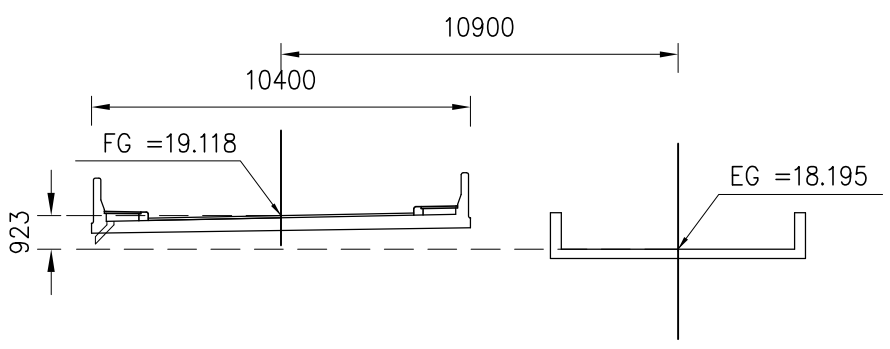
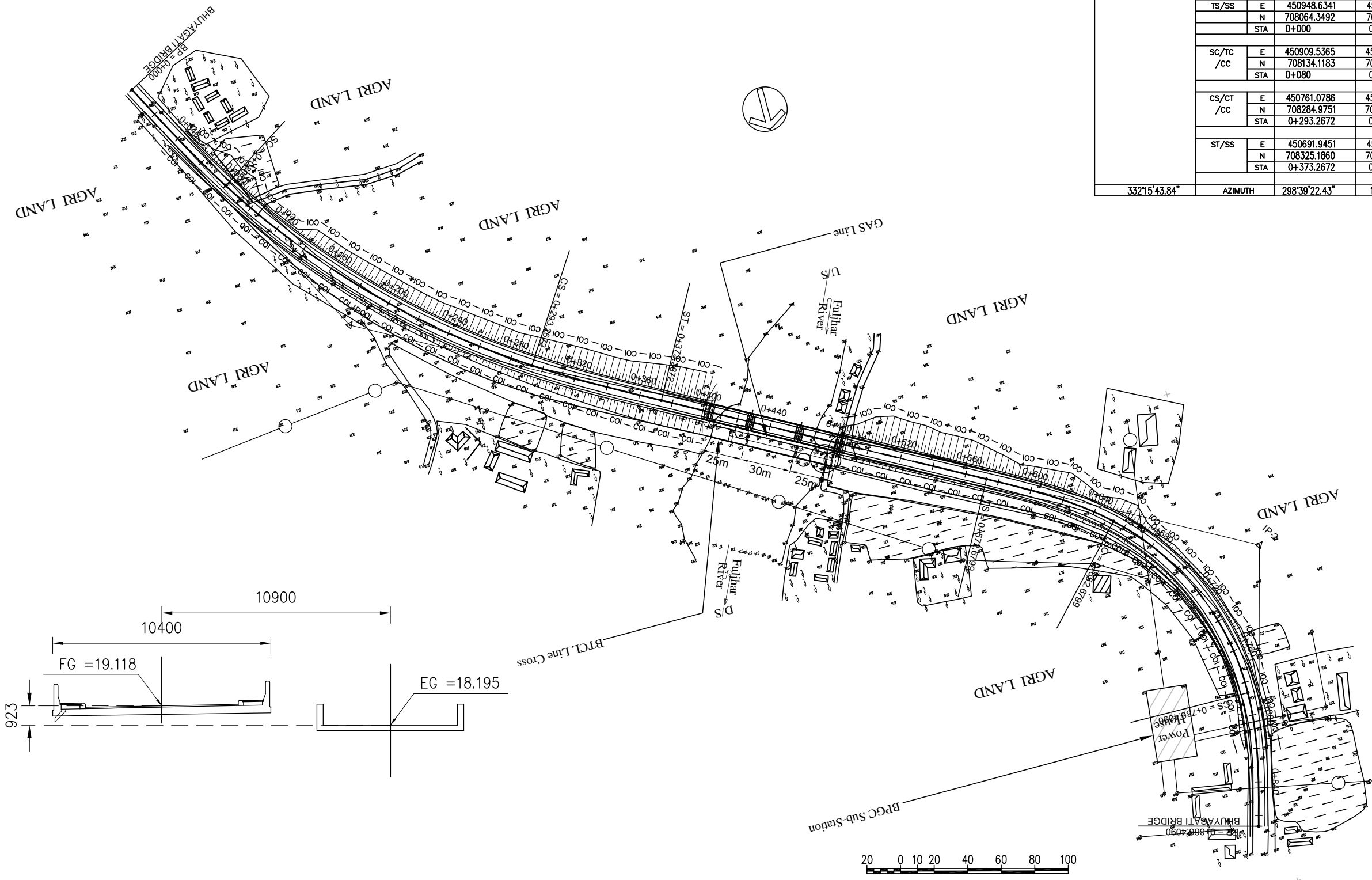




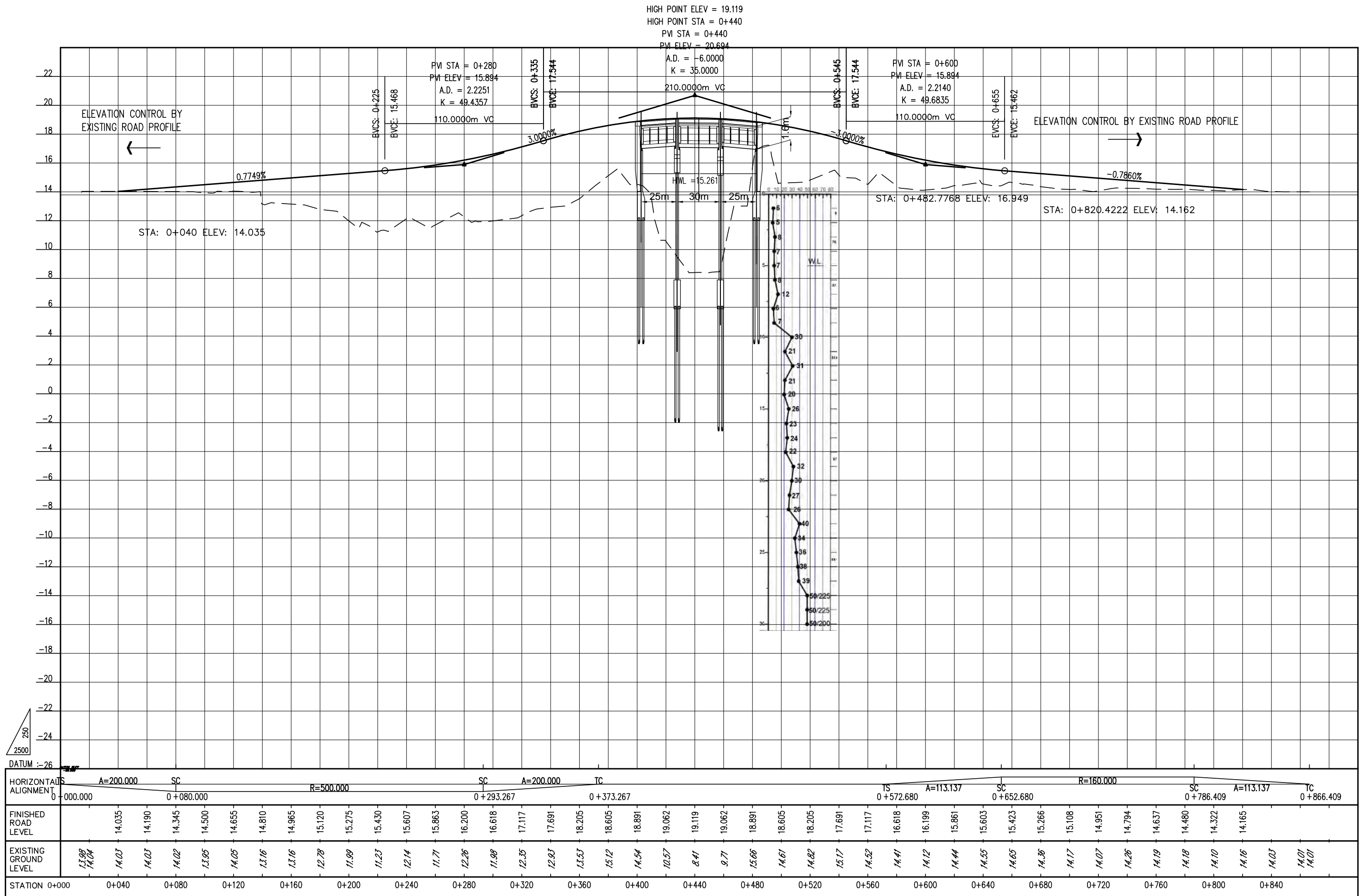
BP		IP-1	IP-2	IP-3	IP-4	EP			
X	436501.9701	V (Kph)	80	50	60	60	V (Kph)	X	437141.7866
Y	865697.9846	TYPE					TYPE	Y	865450.9486
STA	0+000	$\Delta$	1'43'59.19"	24'18'48.23"	2'58'08.25"	13'06'28.43"	$\Delta$	STA	0+700.8774
		R (m)	2000.0000	180.0000	2000.0000	400.0000	R (m)		
		A		84.8528   84.8528		141.4214   141.4214	A		
		TS / TC (m)	30.2508	58.8465   58.8465	51.8297	70.9825   70.9825	TS / TC (m)		
		LC (m)	60.4969	36.3828	103.6361	41.5104	LC (m)		
		LS (m)		40.0000   40.0000		50.0000   50.0000	LS (m)		
		L (m)	60.4969	116.3830	103.6361	141.5100	L (m)		
		e max (%)					e max (%)		
		PI	E 436561.2548	436682.6070	436895.4754	437027.9561	E	PI	
			N 865653.2766	865555.8675	865501.0517	865459.5107	N		
		TS/SS	E	436636.7161		436960.2252	E	TS/SS	
			N	865592.7040		865480.7486	N		
			STA	0+171.0131		0+516.1974	STA		
		SC/TC /CC	E	436537.1021	436668.7978	436845.2832	437008.2277	E	SC/TC /CC
			N	865671.4907	865568.8502	865513.9767	865466.7882	N	
			STA	0+044.0021	0+211.0131	0+396.5326	0+566.1974	STA	
		CS/CT /CC	E	865634.3403	436701.2751	865485.5443	437048.9770	E	CS/CT /CC
			N	436584.8456	865552.5887	436944.9308	865458.9739	N	
			STA	0+104.4990	0+247.3959	0+500.1687	0+607.7078	STA	
		ST/SS	E		436739.5944		437098.7386	E	ST/SS
			N		865541.1927		865454.1866	N	
			STA		0+287.3959		0+657.7078	STA	
		127°01'14.88"	AZIMUTH	128°45'14.08"	104°26'25.85"	107°24'34.10"	94°18'05.66"	AZIMUTH	



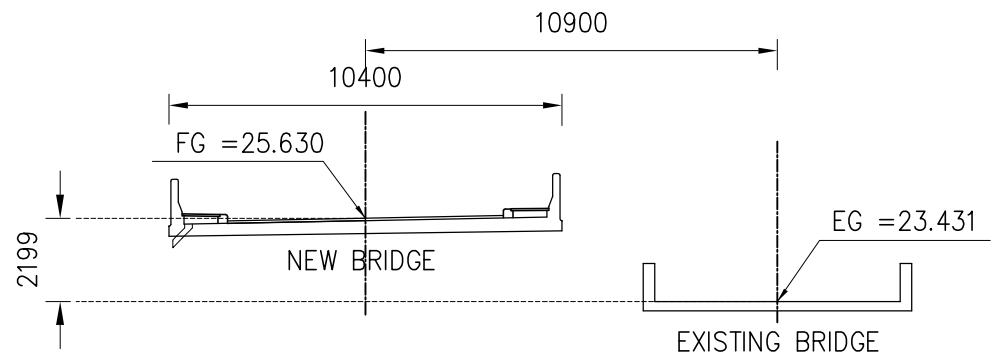
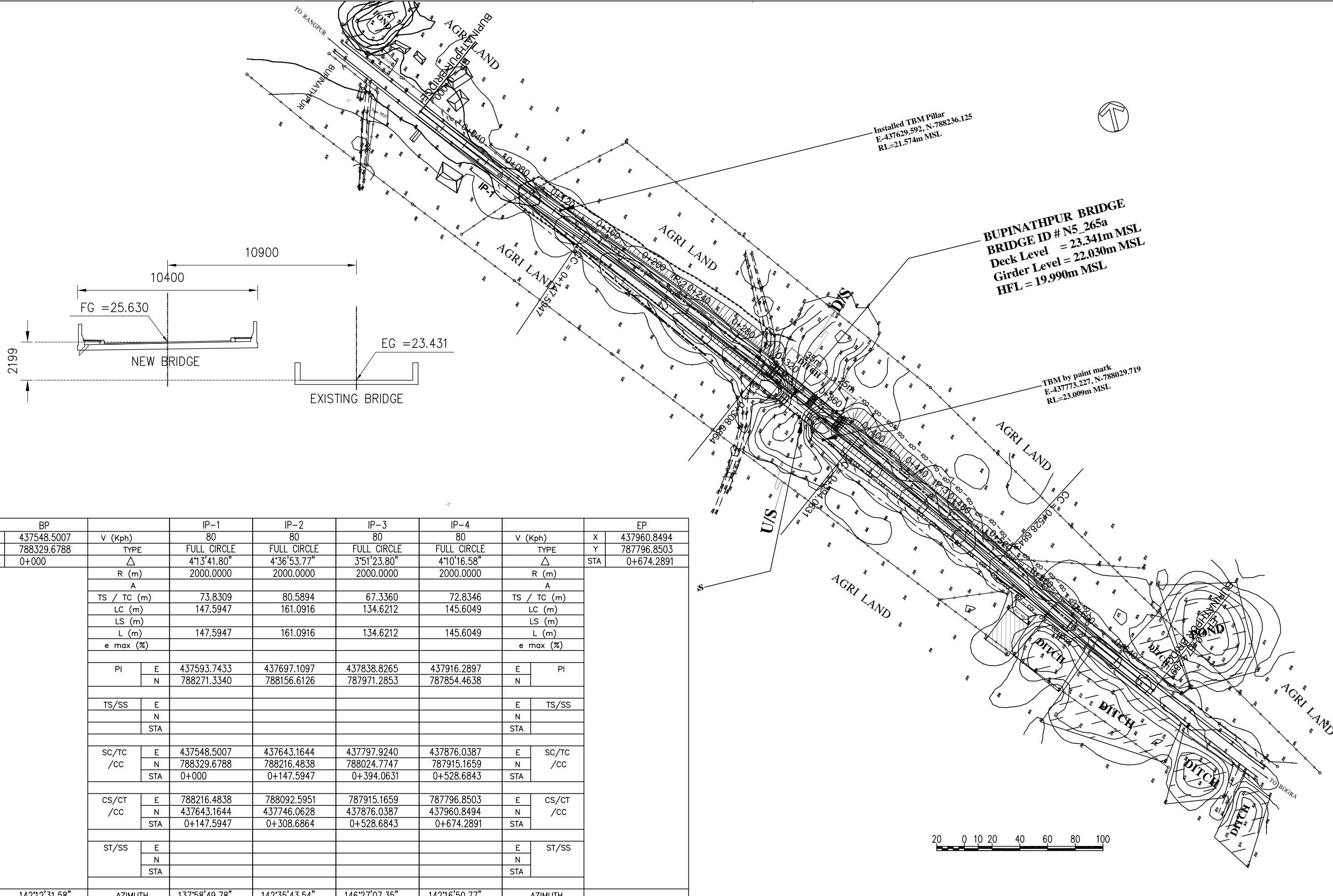




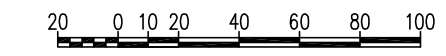
BP		IP-1		IP-2		EP	
X	450948.6341	V (Kph)	80	60	V (Kph)	X	450413.9039
Y	708064.3492	TYPE	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	TYPE	Y	708662.7057
STA	0+000	$\Delta$	33°36'21.41"	76°32'09.87"	$\Delta$	STA	0+866.4090
		R (m)	500.0000	160.0000	R (m)		
		A	200.0000   200.0000	113.1371   113.1371	A		
		TS / TC (m)	191.1397   191.1397	167.4441   167.4441	TS / TC (m)		
		LC (m)	213.2672	133.7290	LC (m)		
		LS (m)	80.0000   80.0000	80.0000   80.0000	LS (m)		
		L (m)	373.2670	293.7290	L (m)		
		e max (%)			e max (%)		
		PI	E 450859.6726	450370.0235	E	PI	
			N 708233.5243	708501.1134	N		
		TS/SS	E 450948.6341	450516.9579	E	TS/SS	
			N 708064.3492	708420.8150	N		
		STA	0+000	0+572.6799	STA		
		SC/TC /cc	E 450909.5365	450450.3772	E	SC/TC /cc	
			N 708134.1183	708464.7642	N		
		STA	0+080	0+652.6799	STA		
		CS/CT /cc	E 450761.0786	450399.4748	E	CS/CT /cc	
			N 708284.9751	708584.2434	N		
		STA	0+293.2672	0+786.4090	STA		
		ST/SS	E 450691.9451	450413.9039	E	ST/SS	
			N 708325.1860	708662.7057	N		
		STA	0+373.2672	0+866.4090	STA		
		332°15'43.84"	AZIMUTH	298°39'22.43"	151°1'32.30"	AZIMUTH	

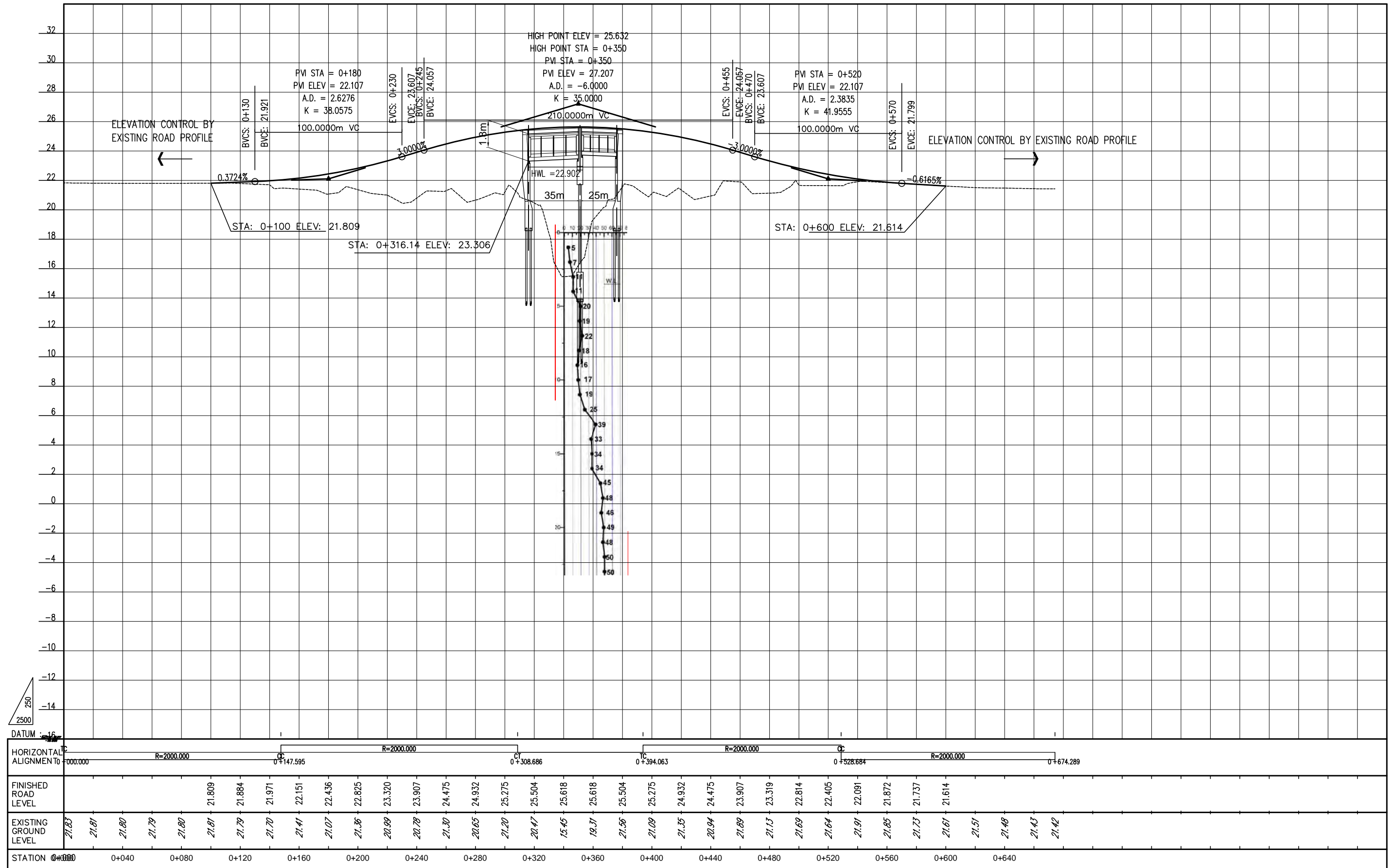


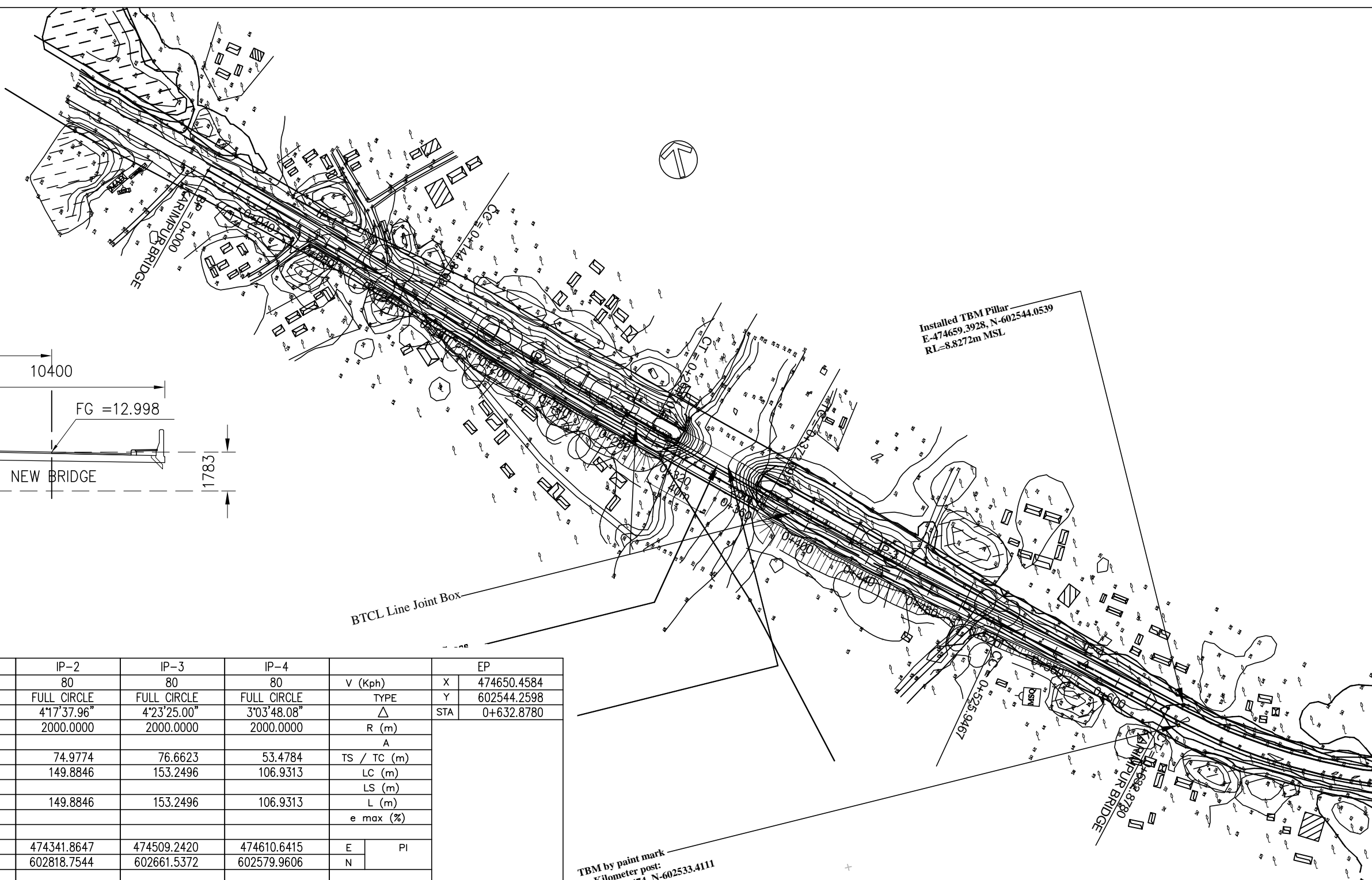
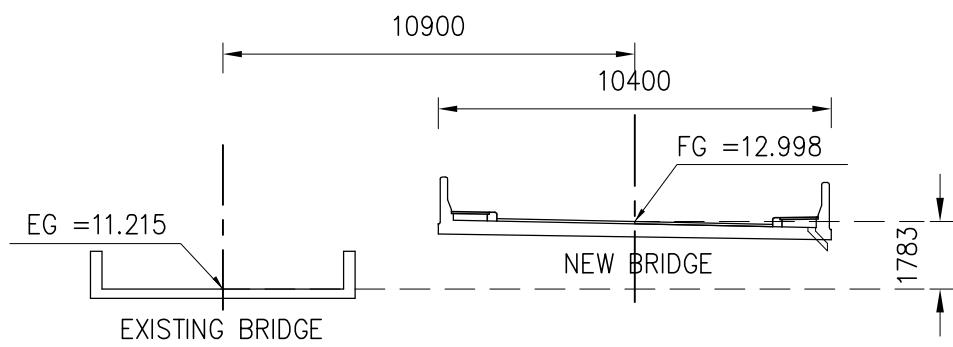
No	REVISION	DATE



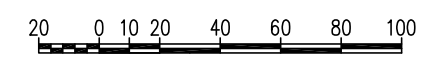
BP			IP-1	IP-2	IP-3	IP-4		EP	
X	437548.5007	V (Kph)	80	80	80	80	V (Kph)	X	437960.8494
Y	788329.6788	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE	Y	787796.8503
STA	0+000	$\Delta$	4°13'41.80"	4°36'53.77"	3°51'23.80"	4°10'16.58"	$\Delta$	STA	0+674.2891
		R (m)	2000.0000	2000.0000	2000.0000	2000.0000	R (m)		
		A					A		
		TS / TC (m)	73.8309	80.5894	67.3360	72.8346	TS / TC (m)		
		LC (m)	147.5947	161.0916	134.6212	145.6049	LC (m)		
		LS (m)					LS (m)		
		L (m)	147.5947	161.0916	134.6212	145.6049	L (m)		
		e max (%)					e max (%)		
		PI					PI		
		E	437593.7433	437697.1097	437838.8265	437916.2897	E		
		N	788271.3340	788156.6126	787971.2853	787854.4638	N		
		TS/SS					TS/SS		
		E					E		
		N					N		
		STA					STA		
		SC/TC /CC					SC/TC /CC		
		E	437548.5007	437643.1644	437797.9240	437876.0387	E		
		N	788329.6788	788216.4838	788024.7747	787915.1659	N		
		STA	0+000	0+147.5947	0+394.0631	0+528.6843	STA		
		CS/CT /CC					CS/CT /CC		
		E	788216.4838	788092.5951	787915.1659	787796.8503	E		
		N	437643.1644	437746.0628	437876.0387	437960.8494	N		
		STA	0+147.5947	0+308.6864	0+528.6843	0+674.2891	STA		
		ST/SS					ST/SS		
		E					E		
		N					N		
		STA					STA		
		AZIMUTH	137°58'49.78"	142°35'43.54"	146°27'07.35"	142°16'50.77"	AZIMUTH		



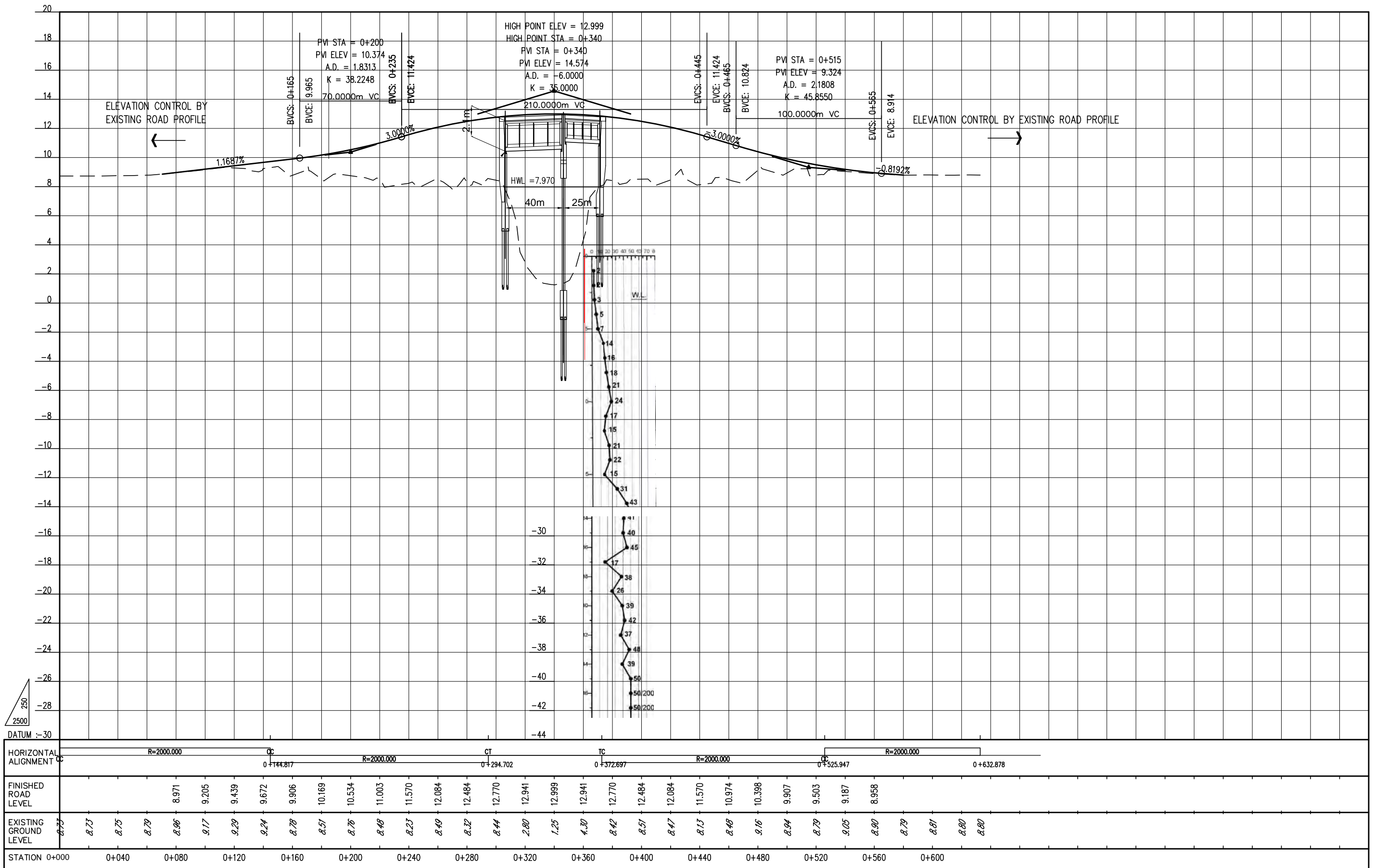




BP		IP-1		IP-2		IP-3		IP-4		EP	
X	474189.5984	V (Kph)	80	80	80	80	V (Kph)	X	474650.4584	Y	602544.2598
Y	602977.1727	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE	Y	602544.2598	STA	0+632.8780
STA	0+000	$\Delta$	4°08'55.31"	4°17'37.96"	4°23'25.00"	3°03'48.08"	$\Delta$	STA	0+632.8780		
		R (m)	2000.0000	2000.0000	2000.0000	2000.0000	R (m)				
		A					A				
		TS / TC (m)	72.4401	74.9774	76.6623	53.4784	TS / TC (m)				
		LC (m)	144.8168	149.8846	153.2496	106.9313	LC (m)				
		LS (m)					LS (m)				
		L (m)	144.8168	149.8846	153.2496	106.9313	L (m)				
		e max (%)					e max (%)				
		PI	E 474242.2729	474341.8647	474509.2420	474610.6415	E PI				
			N 602927.4438	602818.7544	602661.5372	602579.9606	N				
		TS/SS	E				E TS/SS				
			N				N				
			STA				STA				
		SC/TC /cc	E 474189.5984	474291.2117	474453.3641	474568.9737	E SC/TC /cc				
			N 602977.1727	602874.0345	602714.0232	602613.4827	N				
			STA 0+000	0+144.8168	0+372.6971	0+525.9467	STA				
		CS/CT /cc	E 602874.0345	602767.4220	602613.4827	602544.2598	E CS/CT /cc				
			N 474291.2117	474396.5145	474568.9737	474650.4584	N				
			STA 0+144.8168	0+294.7015	0+525.9467	0+632.8780	STA				
		ST/SS	E				E ST/SS				
			N				N				
			STA				STA				
		AZIMUTH	137°30'03.80"	133°12'25.84"	128°49'00.84"	131°52'48.92"	AZIMUTH				

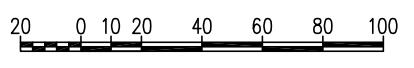
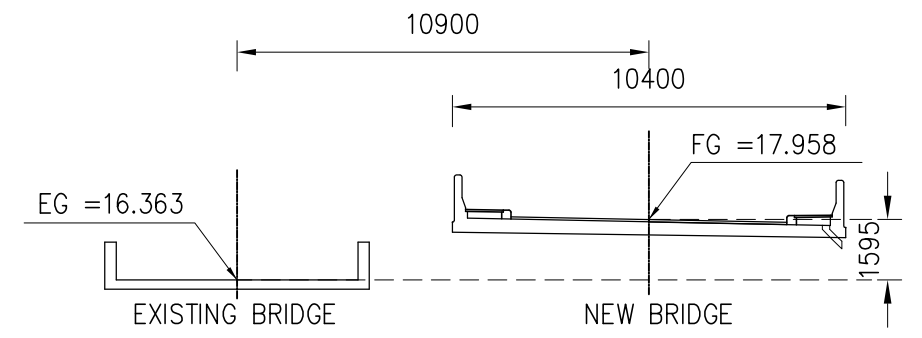


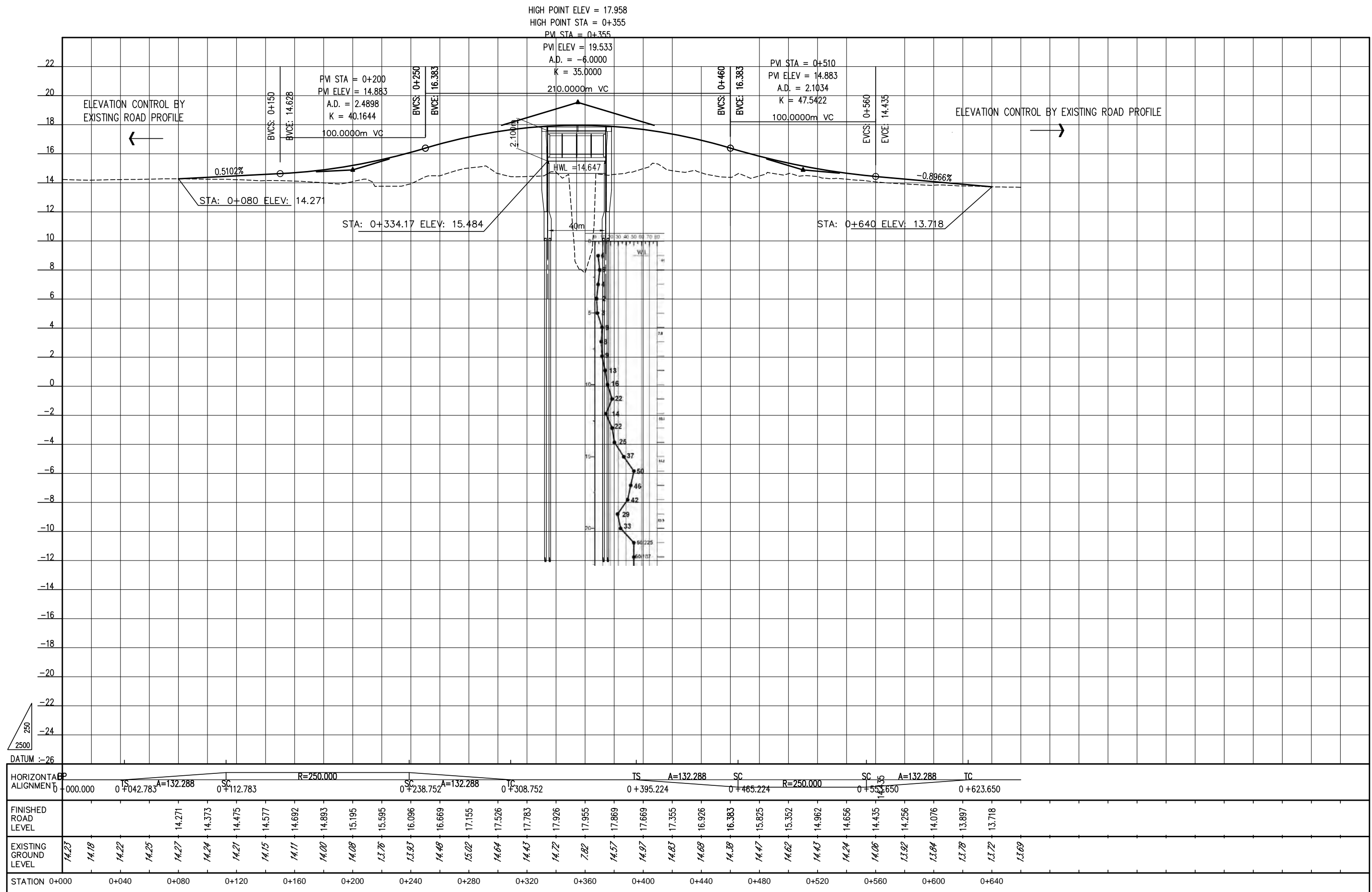


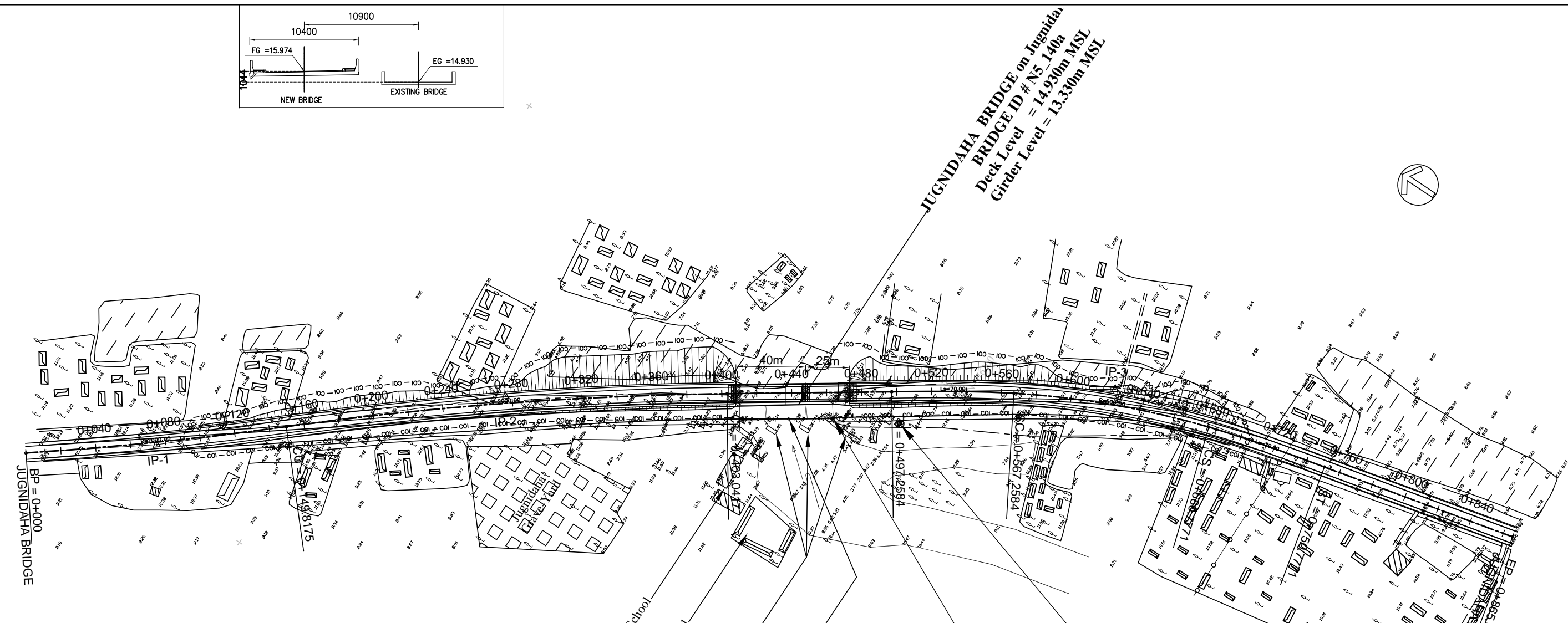
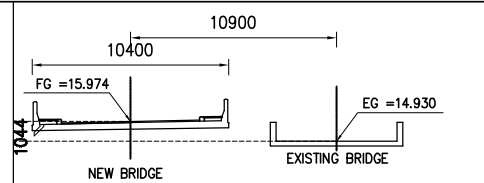




BP		IP-1		IP-2		EP	
X	401965.6402	V (Kph)	65	65	V (Kph)	X	402080.0617
Y	698813.6677	TYPE	FULL CIRCLE	FULL CIRCLE	TYPE	Y	698190.4521
STA	0+000	$\Delta$	44°54'46.67"	36°18'30.68"	$\Delta$	STA	0+660
		R (m)	250.0000	250.0000	R (m)		
		A	132.2876   132.2876	132.2876   132.2876	A		
		TS / TC (m)	138.6455   138.6455	117.2195   117.2195	TS / TC (m)		
		LC (m)	125.9698	88.4258	LC (m)		
		LS (m)	70.0000   70.0000	70.0000   70.0000	LS (m)		
		L (m)	265.9700	228.4260	L (m)		
		e max (%)			e max (%)		
		PI	E 402069.9463 N 698665.2213	E 402011.5648 N 698327.8991	PI		
		TS	E 401990.2366 N 698778.6626 STA 0+042.7825	E 402031.5552 N 698443.4015 STA 0+395.2244	TS		
		SC/TC /SS/CC	E 402027.7329 N 698719.6246 STA 0+112.7825	E 402022.8552 N 698374.0056 STA 0+465.2244	SC/TC /CC/SS		
		CS/CT /CC	E 402055.0020 N 698598.0027 STA 0+238.7523	E 402035.6070 N 698286.9692 STA 0+553.6502	CS/CT /CC		
		ST	E 402046.3020 N 698528.6069 STA 0+308.7523	E 402063.8485 N 698222.9857 STA 0+623.6502	ST		
	144°54'22.09"	AZIMUTH	189°49'08.76"	153°30'38.08"	AZIMUTH		

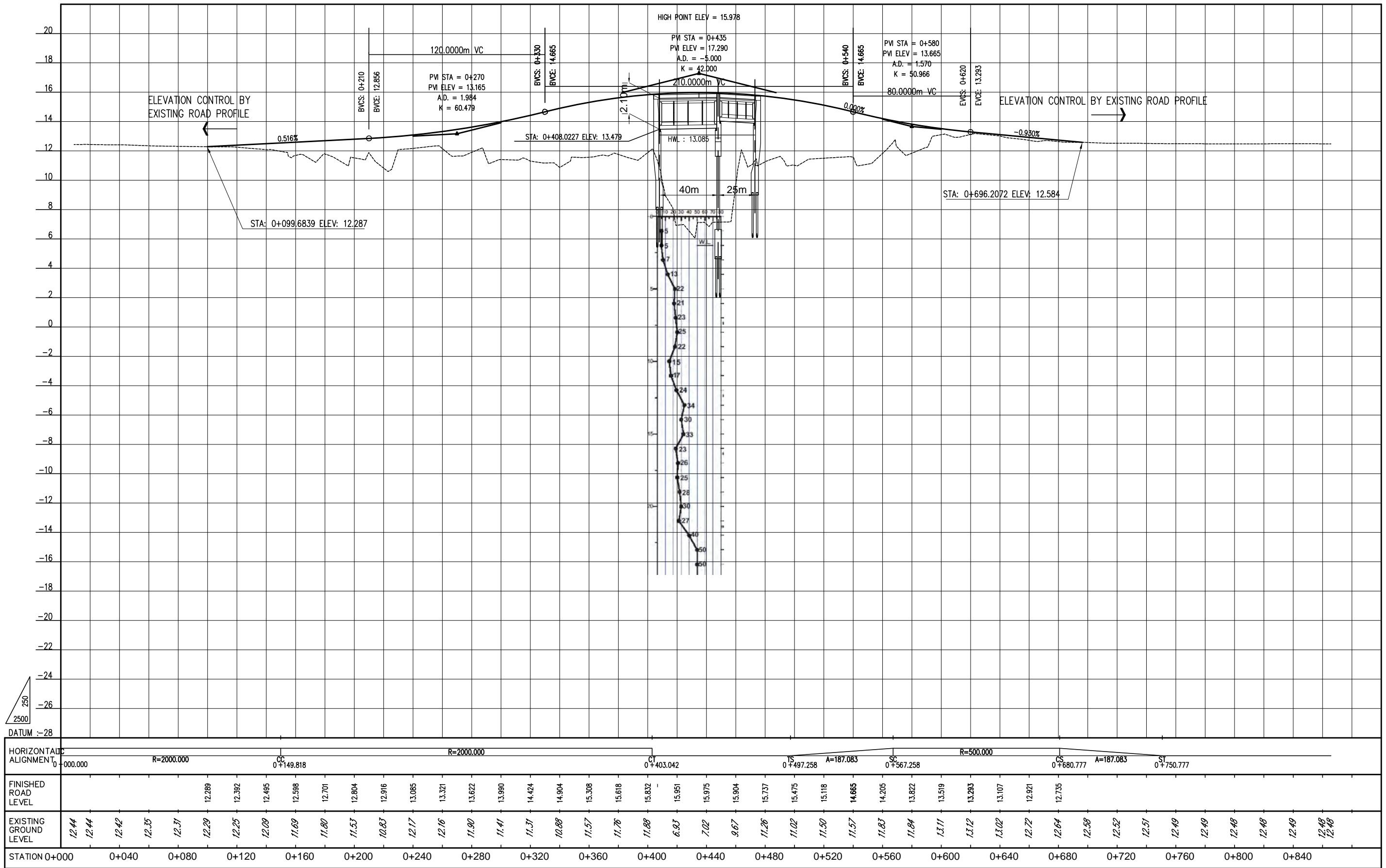




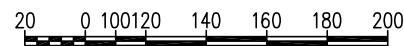
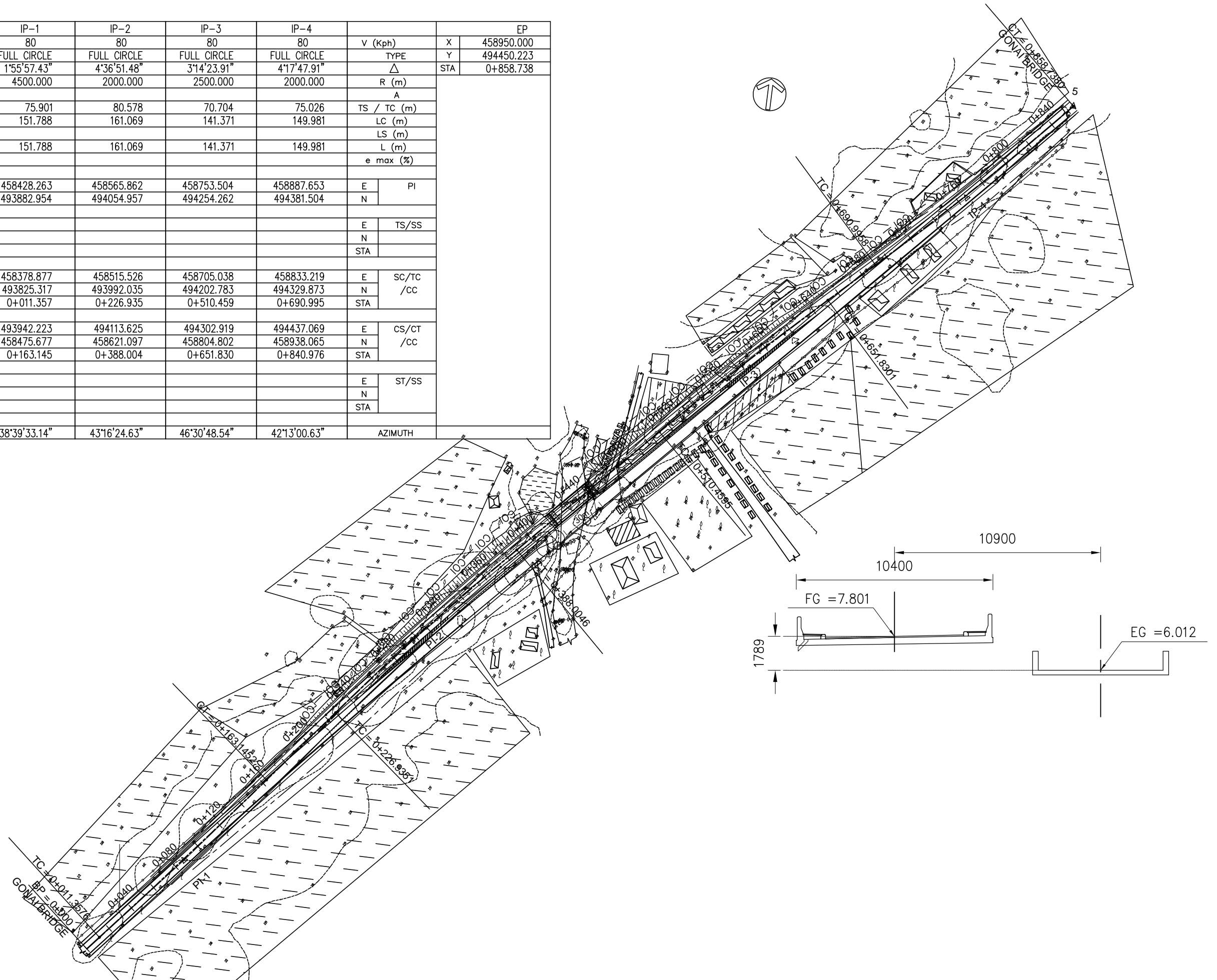


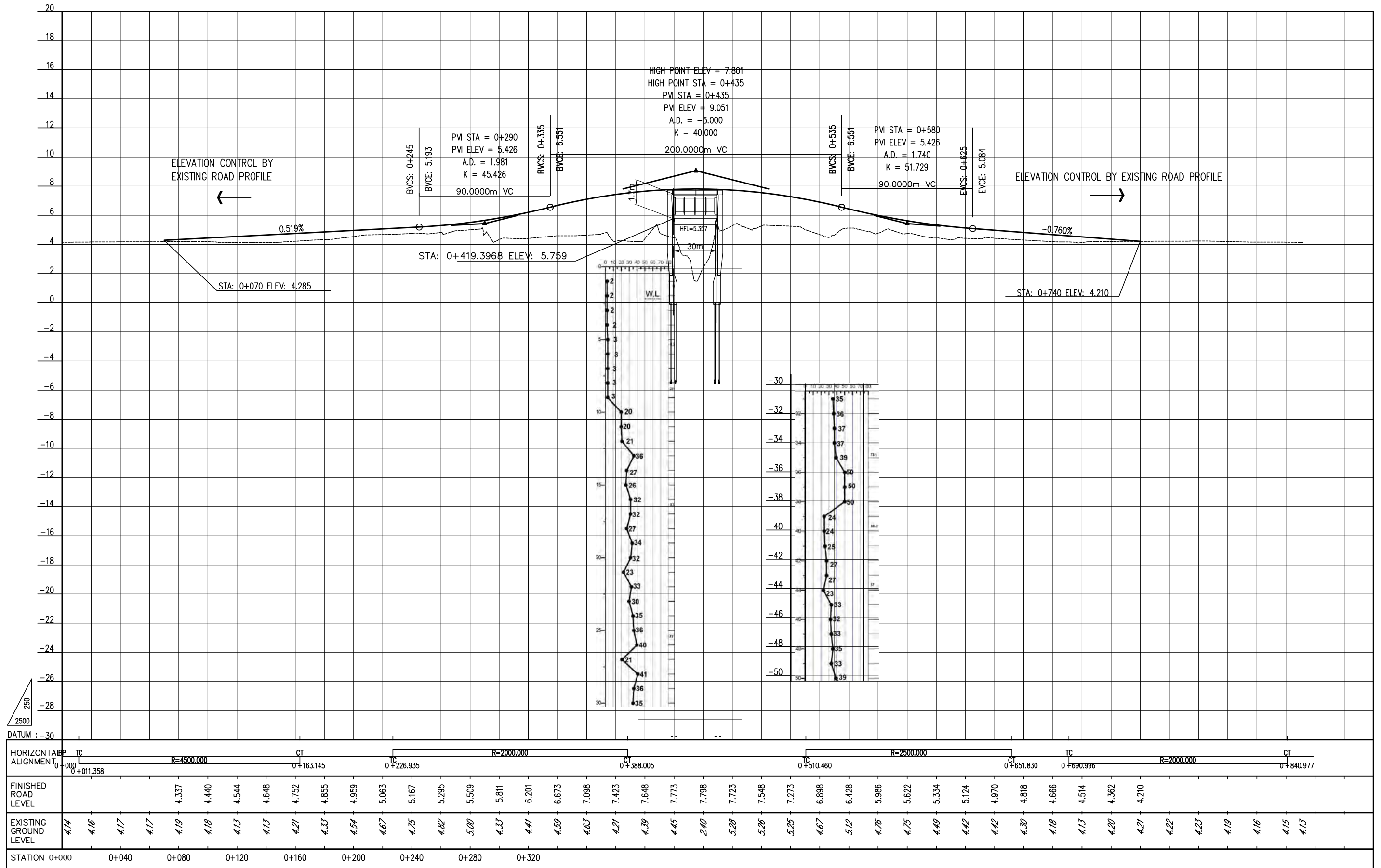
BP		IP-1		IP-2		IP-3		EP	
X	458375.1044	V (Kph)	80	80	80	V (Kph)		X	458805.7885
Y	676730.1050	TYPE	FULL CIRCLE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	TYPE		Y	675994.5338
STA	0+000	$\Delta$	417°31.04"	715°15.62"	21°01'46.88"	$\Delta$		STA	0+865.6682
		R (m)	2000.0000	2000.0000	500.0000	R (m)			
		A			187.0829   187.0829	A			
		TS / TC (m)	74.9438	126.7815	127.8736   127.8736	TS / TC (m)			
		LC (m)	149.8175	253.2242	113.5187	LC (m)			
		LS (m)			70.0000   70.0000	LS (m)			
		L (m)	149.8175	253.2242	253.5190	L (m)			
		e max (%)				e max (%)			
		PI	E 458420.4133 N 676670.4085	E 458554.0541 N 676519.3017	E 458750.3285 N 676230.8786	PI			
		TS			E 458678.3871 N 676336.5957 STA 0+497.2584	TS			
		SC/TC /SS/CC	E 458375.1044 N 676730.1050 STA 0+000	E 458470.0627 N 676614.2702 STA 0+149.8175	E 458716.3998 N 676277.8343 STA 0+567.2584	SC/TC /CC/SS			
		CS/CT /CC	E 676614.2702 N 458470.0627 STA 0+149.8175	E 676414.4875 N 458625.3810 STA 0+403.0417	E 458761.9680 N 676174.1291 STA 0+680.7771	CS/CT /CC			
		ST			E 458779.5414 N 676106.3866 STA 0+750.7771	ST			
142°48'07.18"	AZIMUTH	138°30'36.14"	145°45'51.76"	166°47'38.64"	AZIMUTH				

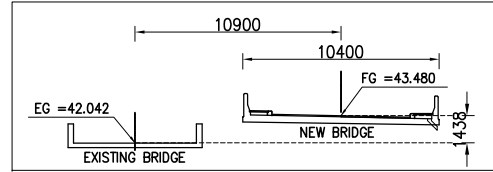
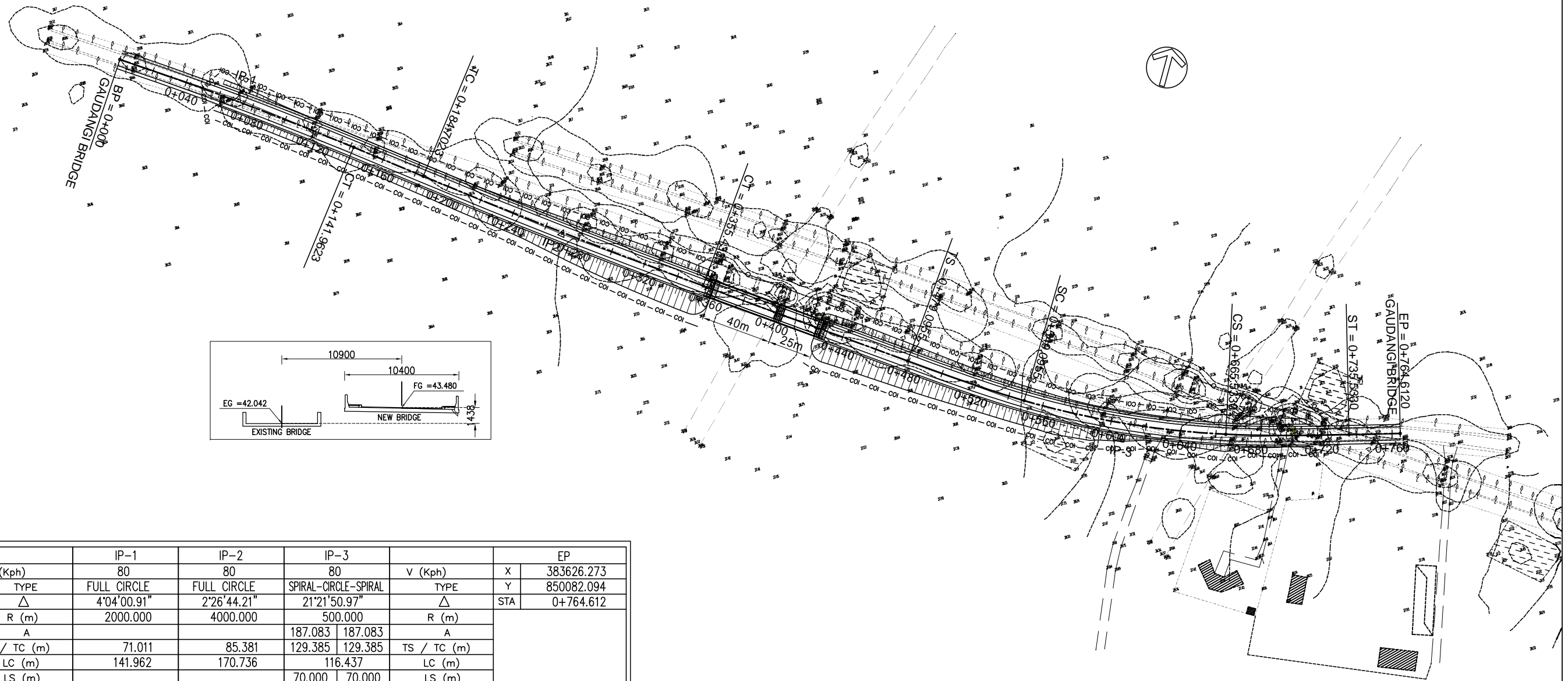




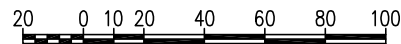
BP		IP-1				IP-2				IP-3				IP-4				EP				
X	458371.487	V (Kph)	80				80				80				V (Kph)		X	458950.000				
Y	493816.693	TYPE	FULL CIRCLE				FULL CIRCLE				FULL CIRCLE				TYPE		Y	494450.223				
STA	0+000	$\Delta$	1'55'57.43"				4'36'51.48"				3'14'23.91"				$\Delta$		STA	0+858.738				
		R (m)	4500.000				2000.000				2500.000				R (m)							
		A													A							
		TS / TC (m)	75.901				80.578				70.704				TS / TC (m)							
		LC (m)	151.788				161.069				141.371				LC (m)							
		LS (m)													LS (m)							
		L (m)	151.788				161.069				141.371				L (m)							
		e max (%)													e max (%)							
		PI	E		458428.263		E		458565.862		E		458753.504		E		458887.653		E		PI	
			N		493882.954		N		494054.957		N		494254.262		N		494381.504		N			
		TS/SS	E				E				E				E				E		TS/SS	
			N				N				N				N				N			
			STA				STA				STA				STA				STA			
		SC/TC /CC	E		458378.877		E		458515.526		E		458705.038		E		458833.219		E		SC/TC /CC	
			N		493825.317		N		493992.035		N		494202.783		N		494329.873		N			
			STA		0+011.357		STA		0+226.935		STA		0+510.459		STA		0+690.995		STA			
		CS/CT /CC	E		493942.223		E		494113.625		E		494302.919		E		494437.069		E		CS/CT /CC	
			N		458475.677		N		458621.097		N		458804.802		N		458938.065		N			
			STA		0+163.145		STA		0+388.004		STA		0+651.830		STA		0+840.976		STA			
		ST/SS	E				E				E				E				E		ST/SS	
			N				N				N				N				N			
			STA				STA				STA				STA				STA			
40°35'30.58"		AZIMUTH	38°39'33.14"		43°16'24.63"		46°30'48.54"		42°13'00.63"		AZIMUTH											



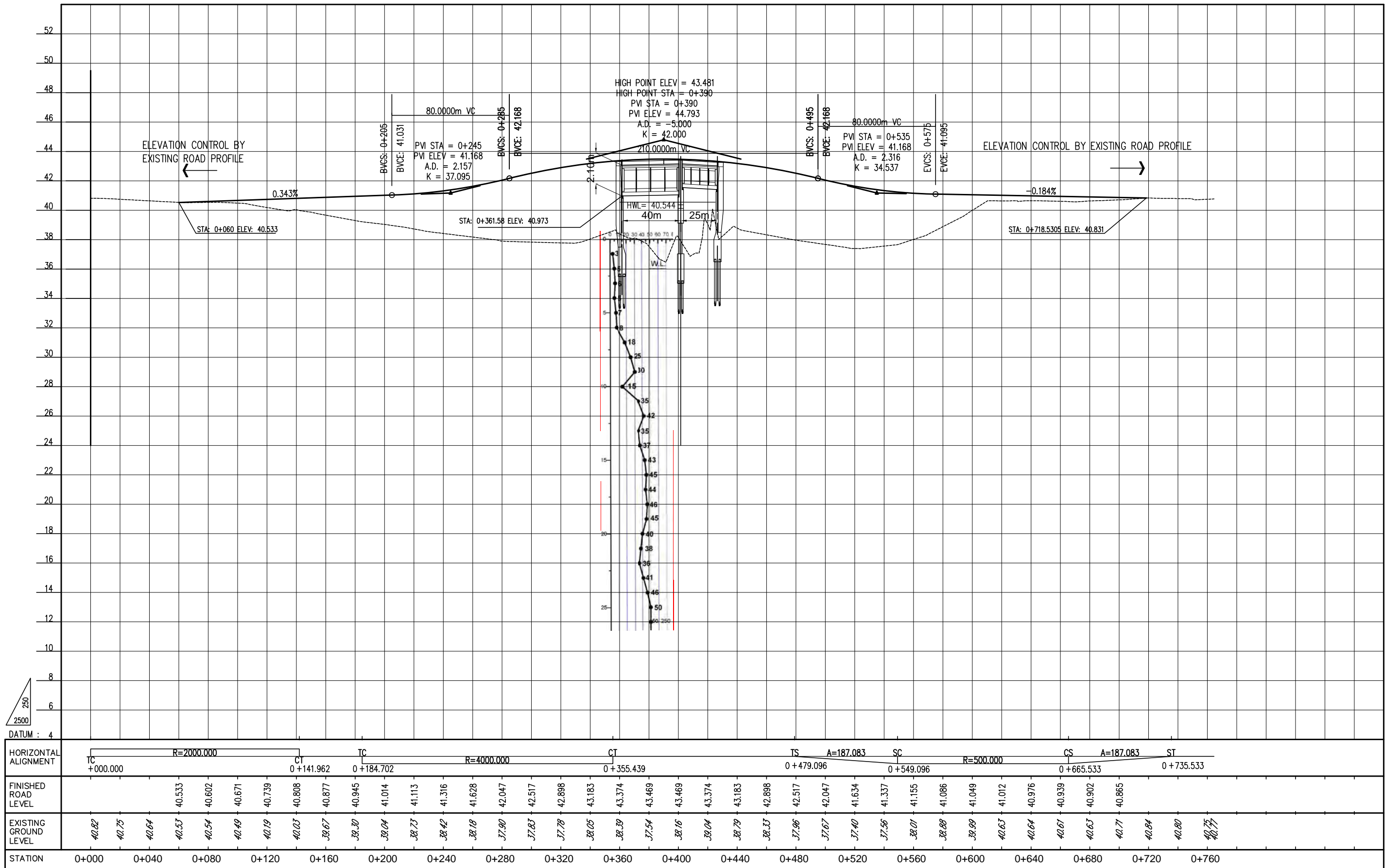


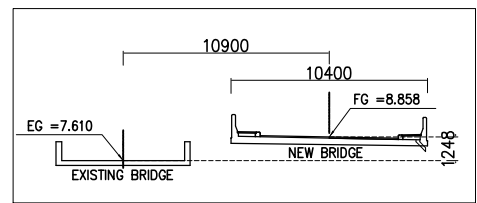
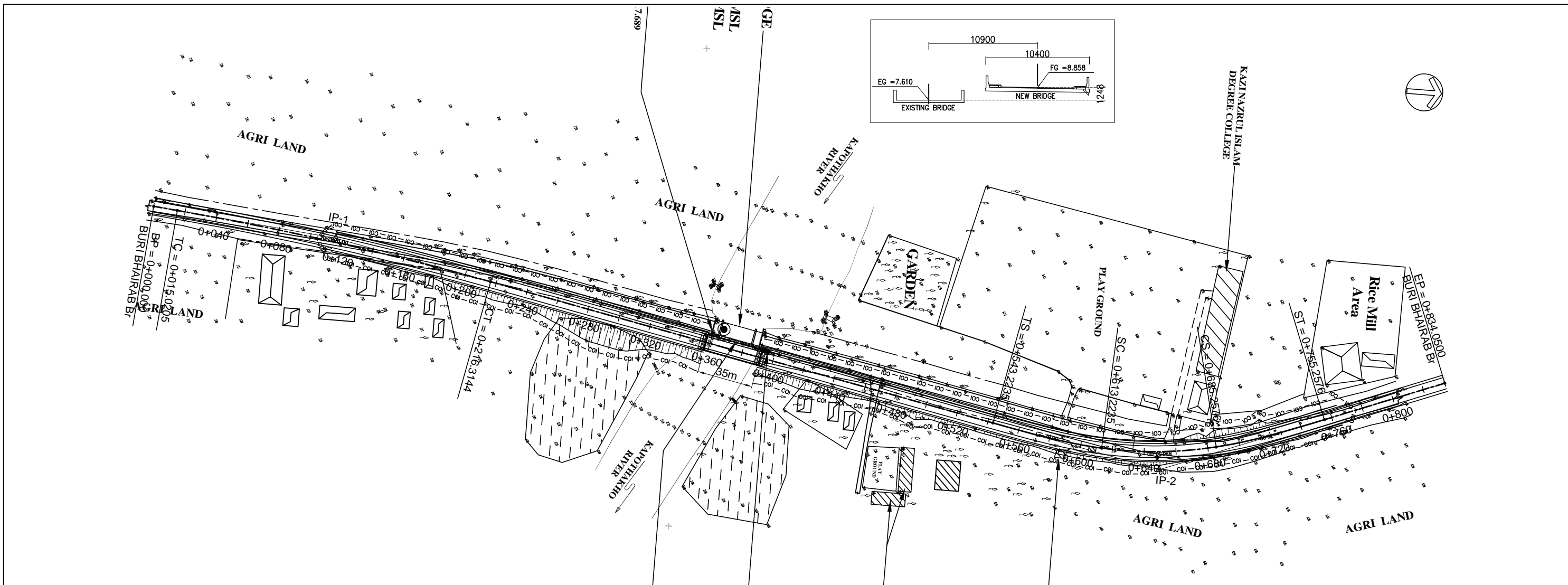


BP		IP-1			IP-2		IP-3		EP	
X	382868.731	V (Kph)	80	80	80	V (Kph)		X	383626.273	
Y	850095.824	TYPE	FULL CIRCLE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	TYPE		Y	850082.094	
STA	0+000	$\Delta$	4°04'00.91"	2°26'44.21"	21°21'50.97"	$\Delta$		STA	0+764.612	
		R (m)	2000.000	4000.000	500.000	R (m)				
		A			187.083	187.083	A			
		TS / TC (m)	71.011	85.381	129.385	129.385	TS / TC (m)			
		LC (m)	141.962	170.736	116.437		LC (m)			
		LS (m)			70.000	70.000	LS (m)			
		L (m)	141.962	170.736	256.437		L (m)			
		e max (%)					e max (%)			
		PI	E	382939.625	383137.116	383474.294	E	PI		
			N	850091.743	850066.227	850037.225	N			
		TS	E			383345.385	E	TS		
			N			850048.313	N			
			STA			0+479.095	STA			
		SC/TC	E	382868.731	383052.438	383415.233	E	SC/TC		
		/SS/CC	N	850095.824	850077.167	850043.944	N	/CC/SS		
			STA	0+000	0+184.702	0+549.095	STA			
		CS/CT	E	850082.644	850058.910	383530.820	E	CS/CT		
		/CC	N	383010.051	383222.182	850055.616	N	/CC		
			STA	0+141.962	0+355.438	0+665.533	STA			
		ST	E			383598.384	E	ST		
			N			850073.860	N			
			STA			0+735.533	STA			
	93°17'41.36"	AZIMUTH	97°21'42.27"	94°54'58.06"	73°33'07.09"		AZIMUTH			



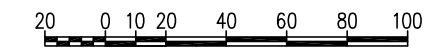


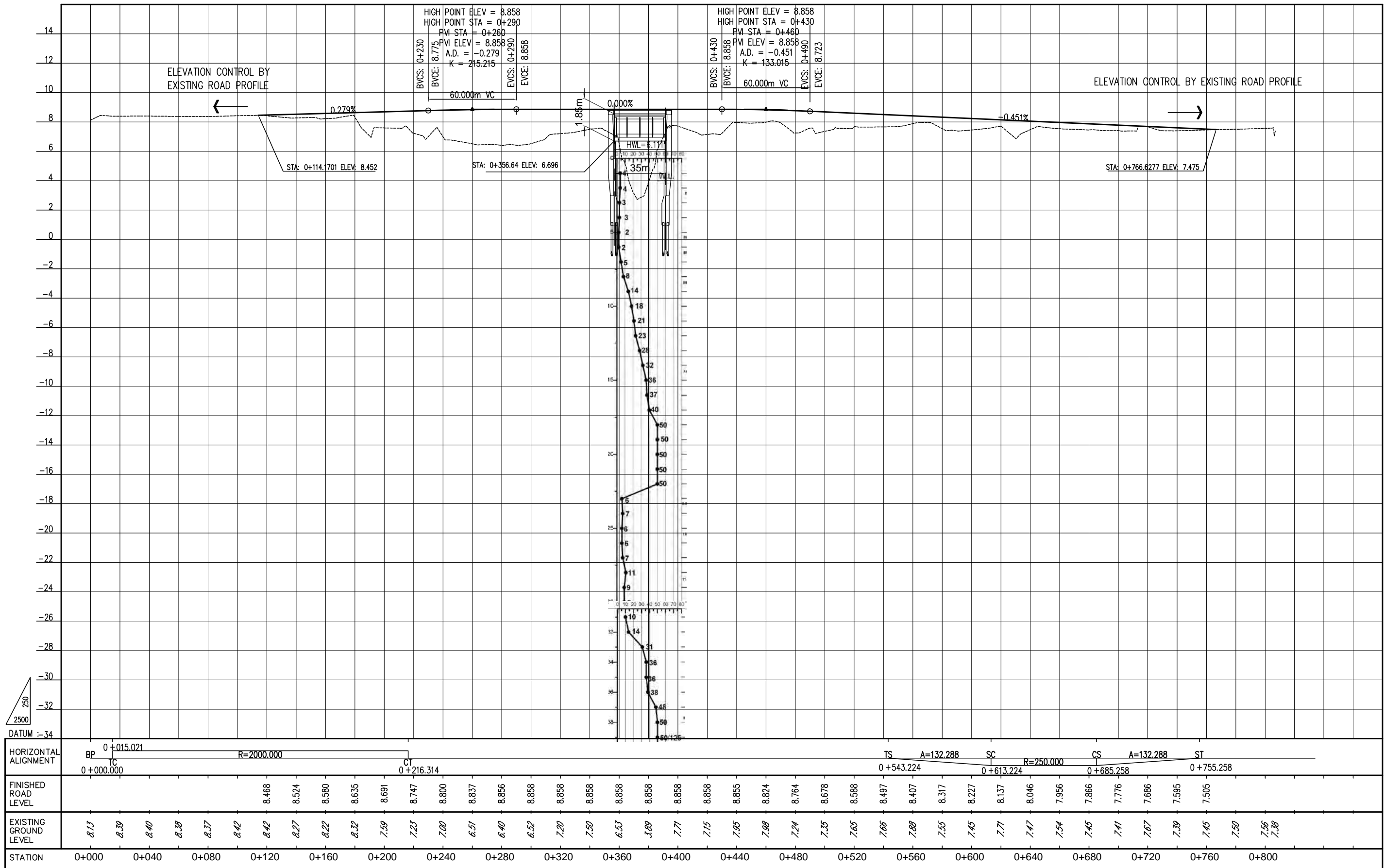




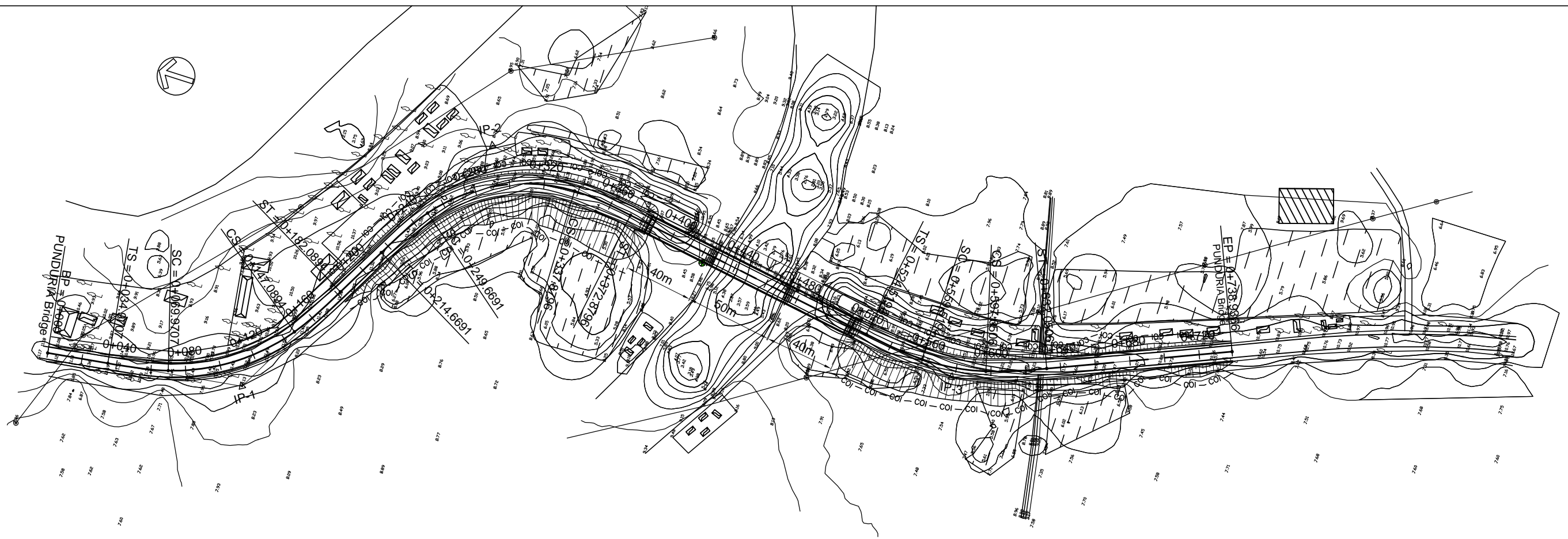
BP		IP-1		IP-2		EP	
X	414976.212	V (Kph)	80	80	V (Kph)	X	415022.034
Y	569862.492	TYPE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	TYPE	Y	570677.595
STA	0+000	$\Delta$	5°45'59.92"	32°33'06.58"	$\Delta$	STA	0+834.050
		R (m)	2000.000	250.000	R (m)		
		A		132.288   132.288	A		
		TS / TC (m)	100.732	108.206   108.206	TS / TC (m)		
		LC (m)	201.294	72.034	LC (m)		
		LS (m)		70.000   70.000	LS (m)		
		L (m)	201.294	212.034	L (m)		
		e max (%)			e max (%)		
		PI	E 414987.012 N 569977.740	415090.361 570503.526	E N	PI	
		TS	E N STA	415069.491 570397.352 0+543.223	E N STA	TS	
		SC/TC /SS/CC	E 414977.613 N 569877.447 STA 0+015.020	415079.765 570466.532 0+613.223	E N STA	SC/TC /CC/SS	
		CS/CT /CC	E 570076.580 N 415006.440 STA 0+216.314	415073.314 570538.027 0+685.257	E N STA	CS/CT /CC	
		ST	E N STA	415050.823 570604.251 0+755.257	E N STA	ST	
		5°21'13.22"	AZIMUTH	11°07'13.15"	338°34'06.57"	AZIMUTH	

Installed TBM Pillar  
 E-415036.028 N-570253.206  
 RL=7.957m MSL

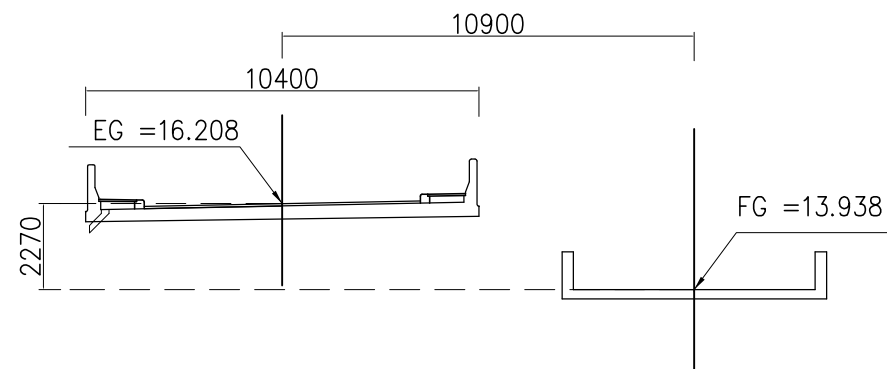


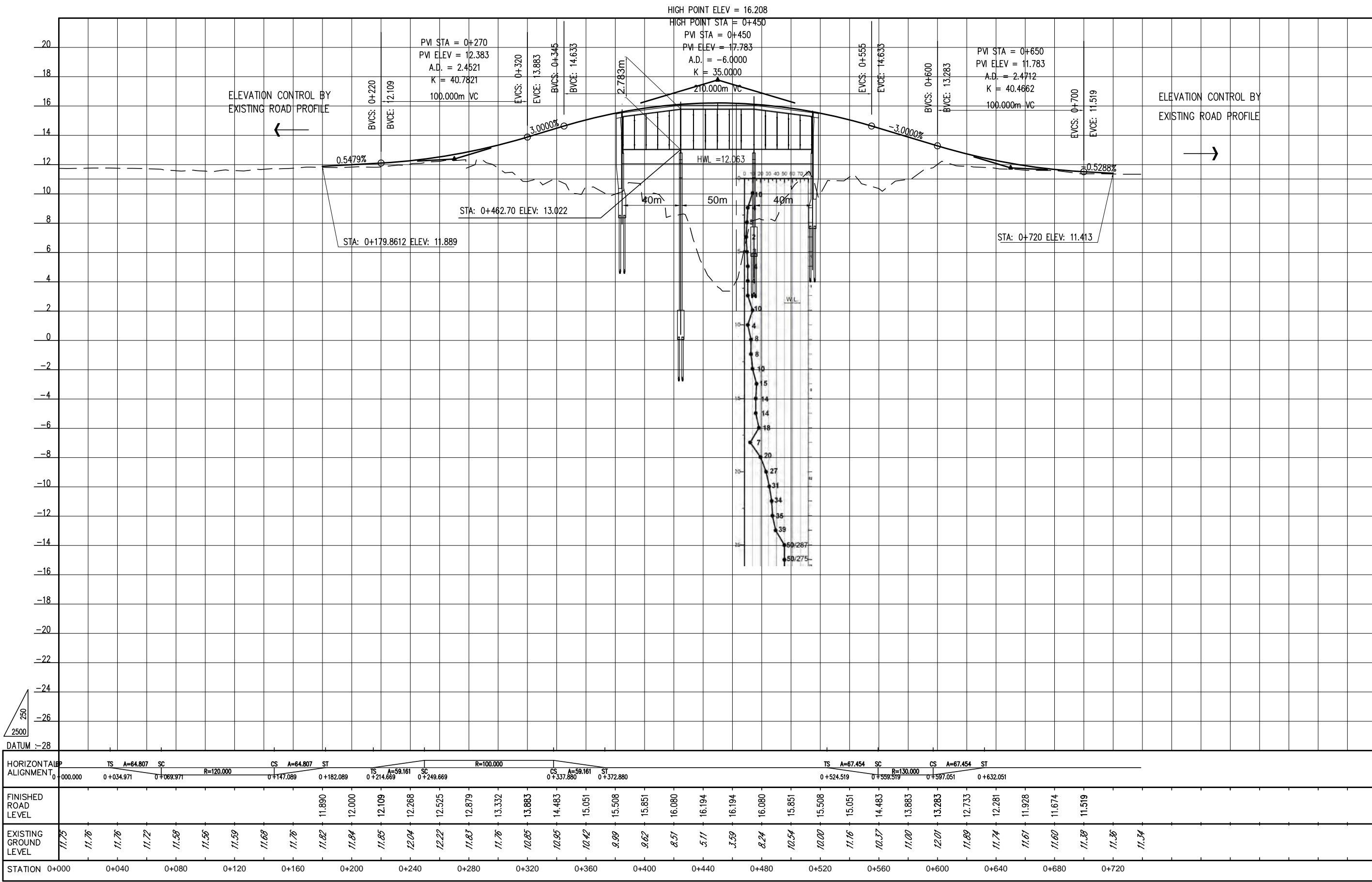


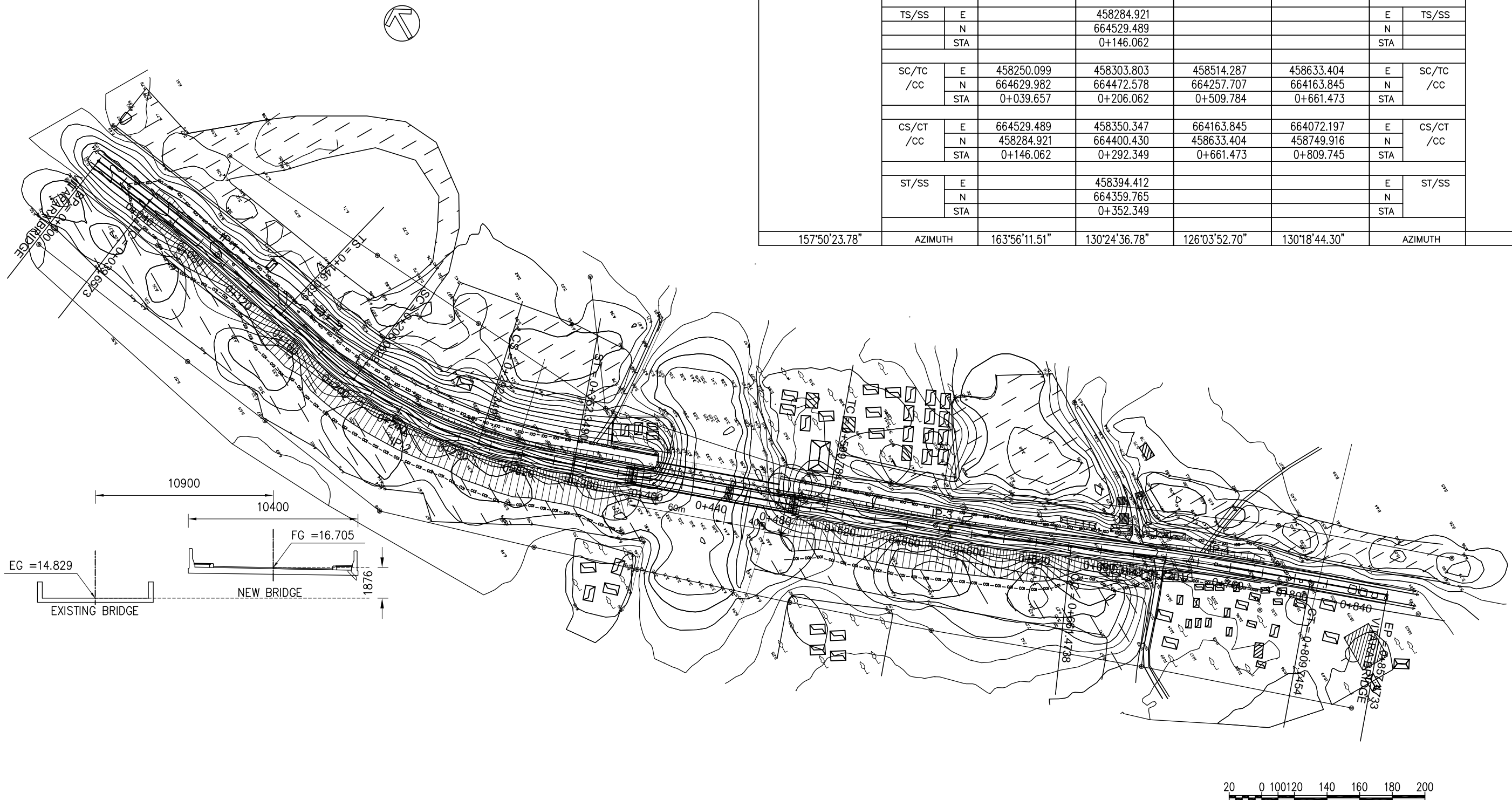
STATION	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+320	0+360	0+400	0+440	0+480	0+520	0+560	0+600	0+640	0+680	0+720	0+760	0+800																					
<b>FINISHED ROAD LEVEL</b>				8.468	8.524	8.580	8.635	8.691	8.747	8.800	8.837	8.856	8.858	8.858	8.858	8.858	8.855	8.824	8.764	8.678	8.588	8.497	8.407	8.317	8.227	8.137	8.046	7.956	7.866	7.776	7.686	7.595	7.505									
<b>EXISTING GROUND LEVEL</b>	8.13	8.39	8.40	8.38	8.37	8.42	8.42	8.27	8.22	8.32	7.59	7.23	7.00	6.57	6.40	6.52	7.20	7.40	6.53	3.89	7.71	7.15	7.85	7.98	7.24	7.35	7.65	7.66	7.88	7.55	7.45	7.71	7.47	7.54	7.45	7.41	7.67	7.39	7.45	7.50	7.56	7.38



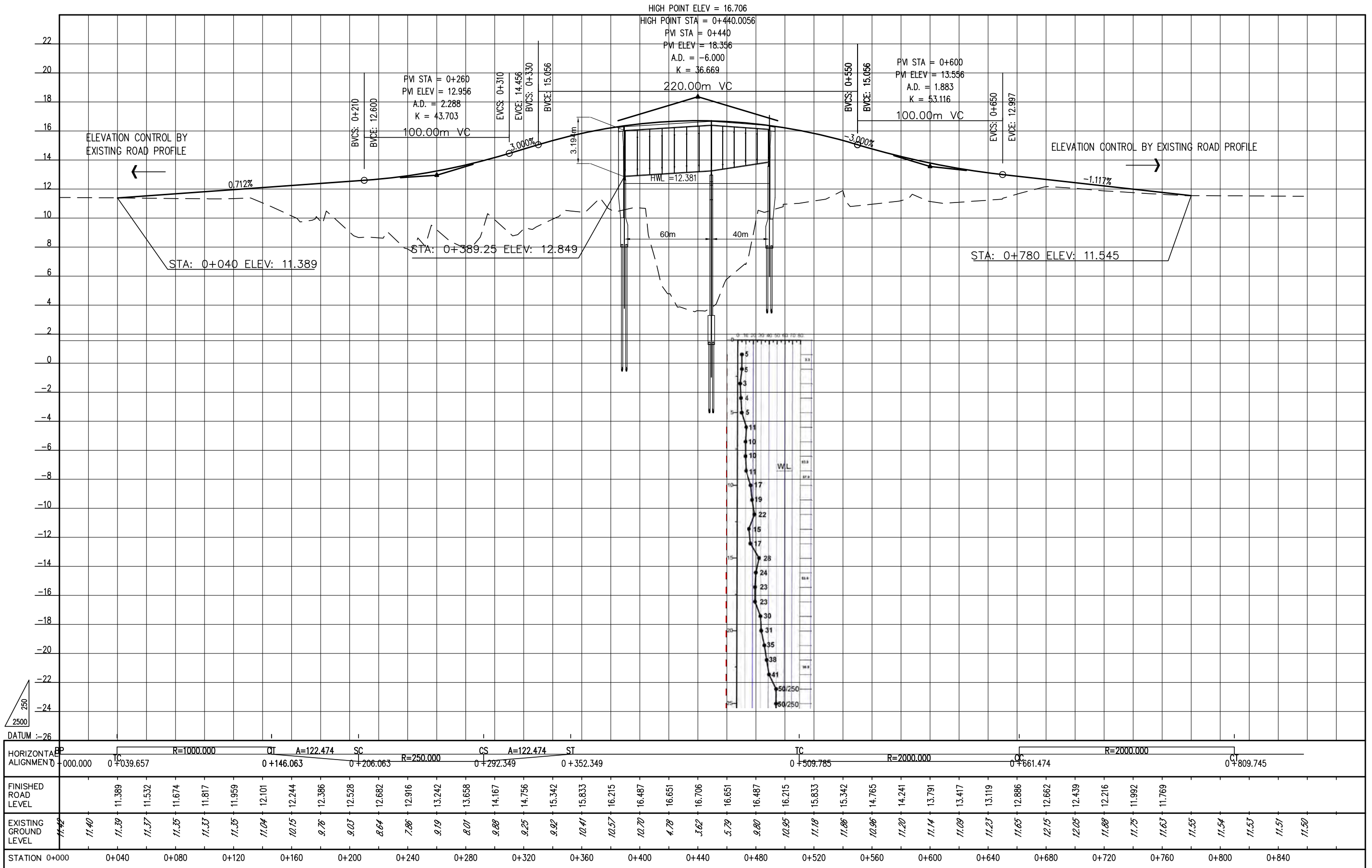
BP		IP-1		IP-2		IP-3		EP			
X	459866.3484	V (Kph) 50		50		65		V (Kph)	X 460072.1837		
Y	657960.5106	TYPE		spiral-circle-spiral		spiral-circle-spiral		TYPE	Y 657312.3878		
STA	0+000	△		53°31'57.94"		70°35'39.95"		△	STA 0+738.9366		
		R (m)		120.0000		100.0000		R (m)			
		A		64.8074   64.8074		59.1608   59.1608		A			
		TS / TC (m)		78.2300   78.2300		88.6398   88.6398		TS / TC (m)			
		LC (m)		77.1188		88.2105		LC (m)			
		LS (m)		35.0000   35.0000		35.0000   35.0000		LS (m)			
		L (m)		147.1190		158.2110		L (m)			
		e max (%)						e max (%)			
		PI		E 459881.8056		460056.8868		E 460009.6337	PI		
				N 657848.3702		657752.8368		N 657461.5263			
		TS		E 459871.1235		459979.0768		E 460018.4142	TS		
				N 657925.8675		657795.2940		N 657515.6573			
				STA 0+034.9707		0+214.6691		0+524.5194	STA		
		SC/TC /SS/CC		E 459877.5754		460008.7308		E 460014.3686	SC/TC /CC/SS		
				N 657891.5009		657776.7924		N 657480.9203			
				STA 0+069.9707		0+249.6691		0+559.5194	STA		
		CS/CT /CC		E 459920.6328		460046.2701		E 460018.7776	CS/CT /CC		
				N 657829.1193		657700.1096		N 657443.7800			
				STA 0+147.0894		0+337.8796		0+597.0506	STA		
		ST		E 459950.4776		460042.6941		E 460030.8435	ST		
				N 657810.8991		657665.3406		N 657410.9556			
				STA 0+182.0894		0+372.8796		0+632.0506	STA		
172°09'06.99"		AZIMUTH		118°37'09.05"		189°12'49.00"		157°14'47.10"		AZIMUTH	



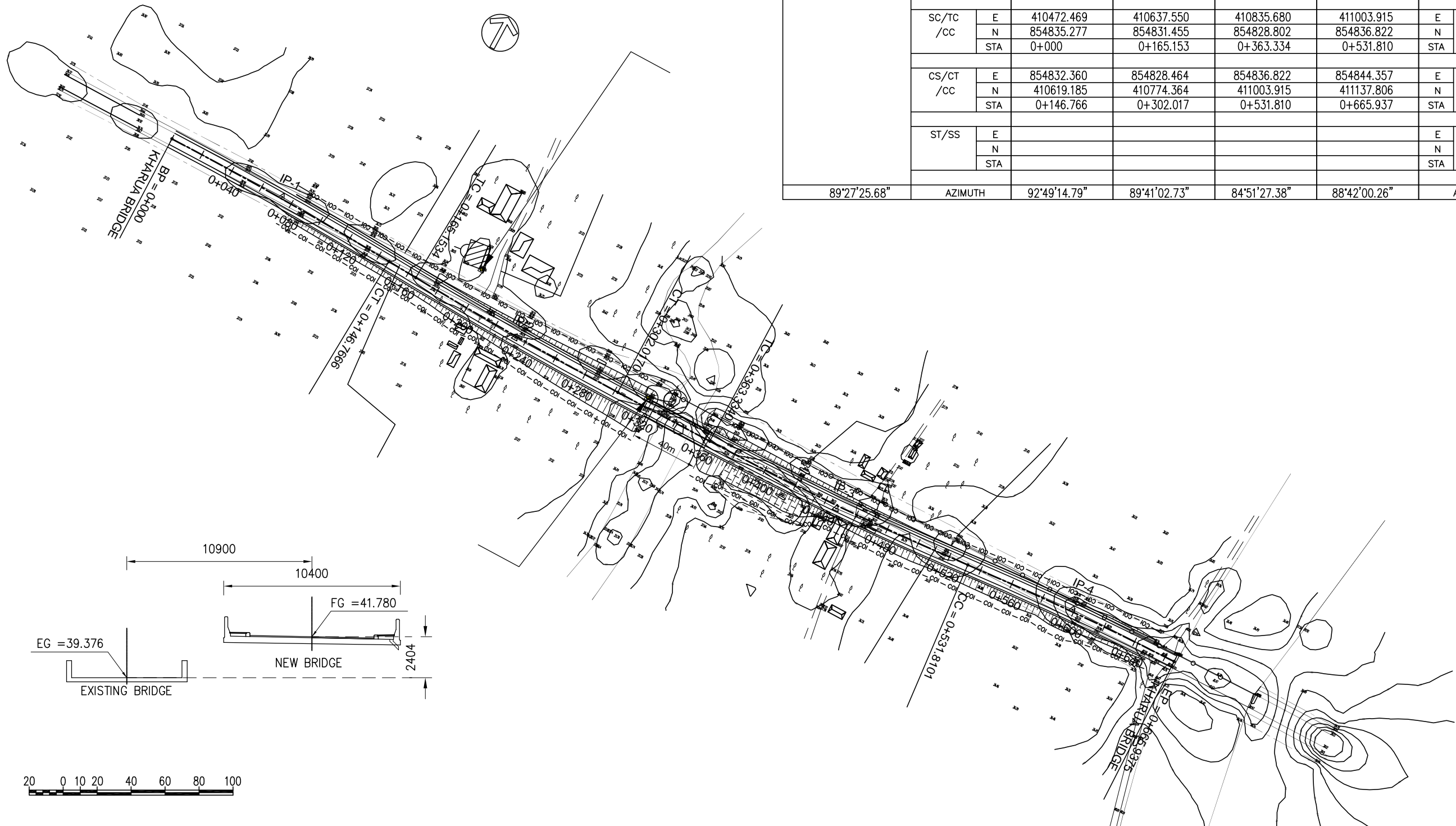




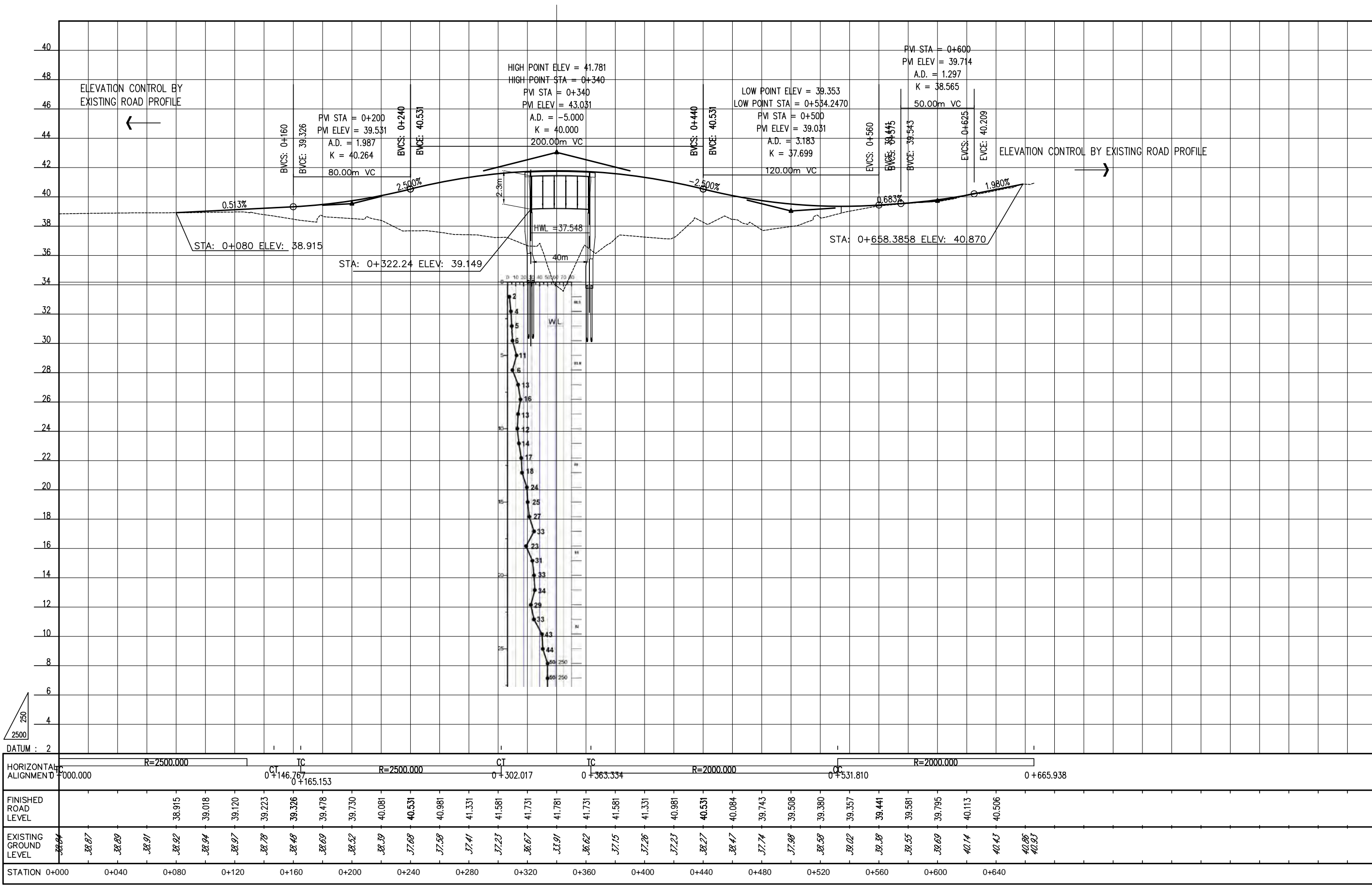
BP			IP-1	IP-2	IP-3	IP-4		EP	
X	458235.141	V (Kph)	80	65	80	80	V (Kph)	X	458786.310
Y	664666.710	TYPE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	FULL CIRCLE	TYPE	Y	664041.320
STA	0+000	$\Delta$	6°05'47.73"	33°31'34.73"	4°20'44.08"	4°14'51.60"	$\Delta$	STA	0+857.473
		R (m)	1000.000	250.000	2000.000	2000.000	R (m)		
		A		122.474   122.474			A		
		TS / TC (m)	53.253	105.470   105.470	75.881	74.170	TS / TC (m)		
		LC (m)	106.406	86.286	151.689	148.272	LC (m)		
		LS (m)		60.000   60.000			LS (m)		
		L (m)	106.406	206.286	151.689	148.272	L (m)		
		e max (%)					e max (%)		
		PI	E 458270.186 N 664580.663	E 458314.105 N 664428.137	E 458572.065 N 664208.516	E 458693.359 N 664120.182	PI		
		TS/SS	E N STA	E 458284.921 N 664529.489 0+146.062			E N STA		
		SC/TC /CC	E 458250.099 N 664629.982 STA 0+039.657	E 458303.803 N 664472.578 0+206.062	E 458514.287 N 664257.707 0+509.784	E 458633.404 N 664163.845 0+661.473	SC/TC /CC		
		CS/CT /CC	E 664529.489 N 458284.921 STA 0+146.062	E 458350.347 N 664400.430 0+292.349	E 664163.845 N 458633.404 0+661.473	E 664072.197 N 458749.916 0+809.745	CS/CT /CC		
		ST/SS	E N STA	E 458394.412 N 664359.765 0+352.349			E N STA		
	157°50'23.78"	AZIMUTH	163°56'11.51"	130°24'36.78"	126°03'52.70"	130°18'44.30"	AZIMUTH		



BP		IP-1		IP-2		IP-3		IP-4		EP	
X	410472.469	V (Kph)	80	80	80	80	V (Kph)	X	411137.806	Y	854844.357
Y	854835.277	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE	Y	854844.357	STA	0+665.937
STA	0+000	$\Delta$	3'21'49.11"	3'08'12.06"	4'49'35.35"	3'50'32.88"	$\Delta$	STA	0+665.937		
		R (m)	2500.000	2500.000	2000.000	2000.000	R (m)				
		A					A				
		TS / TC (m)	73.404	68.449	84.288	67.089	TS / TC (m)				
		LC (m)	146.767	136.864	168.476	134.127	LC (m)				
		LS (m)					LS (m)				
		L (m)	146.767	136.864	168.476	134.127	L (m)				
		e max (%)					e max (%)				
		PI					PI				
		E	410545.870	410705.916	410919.966	411070.734	E				
		N	854835.972	854828.087	854829.267	854842.835	N				
		TS/SS					TS/SS				
		E					E				
		N					N				
		STA					STA				
		SC/TC /CC					SC/TC /CC				
		E	410472.469	410637.550	410835.680	411003.915	E				
		N	854835.277	854831.455	854828.802	854836.822	N				
		STA	0+000	0+165.153	0+363.334	0+531.810	STA				
		CS/CT /CC					CS/CT /CC				
		E	854832.360	854828.464	854836.822	854844.357	E				
		N	410619.185	410774.364	411003.915	411137.806	N				
		STA	0+146.766	0+302.017	0+531.810	0+665.937	STA				
		ST/SS					ST/SS				
		E					E				
		N					N				
		STA					STA				
		89'27'25.68"	AZIMUTH	92'49'14.79"	89'41'02.73"	84'51'27.38"	88'42'00.26"	AZIMUTH			

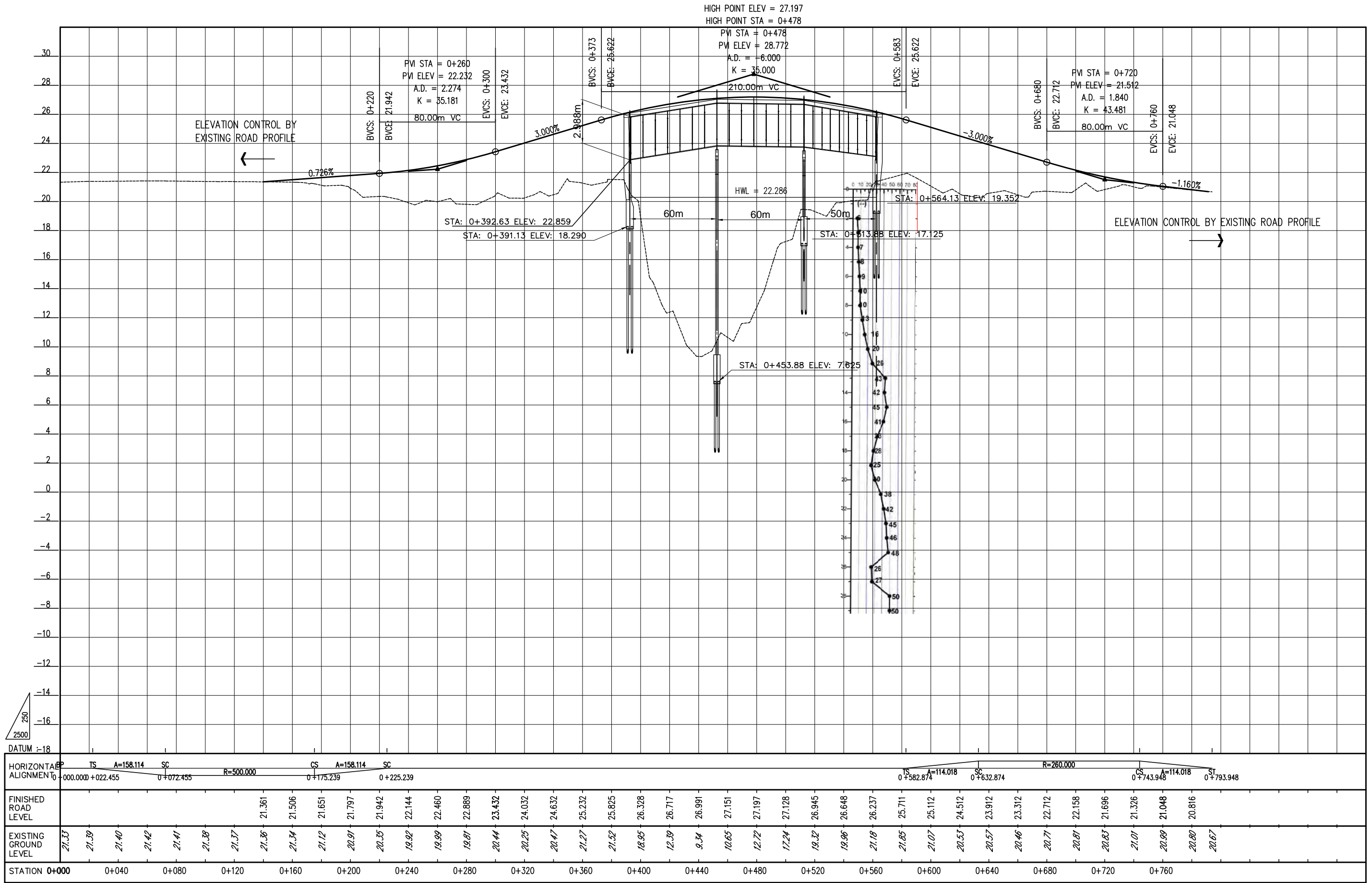




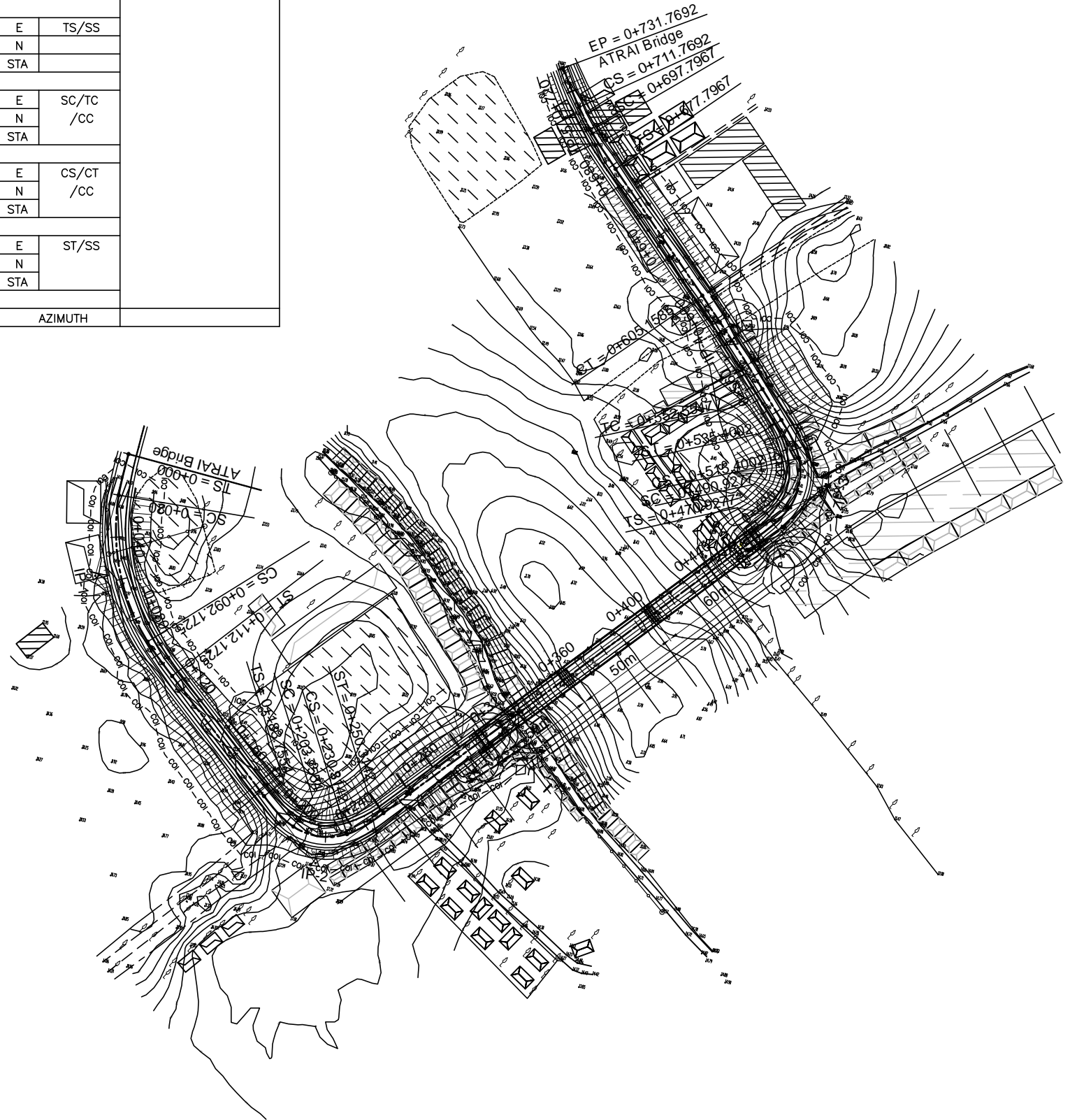
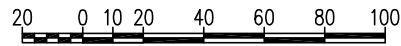
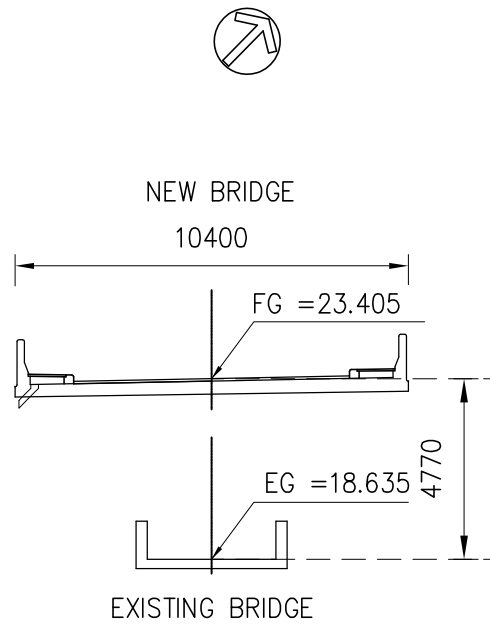


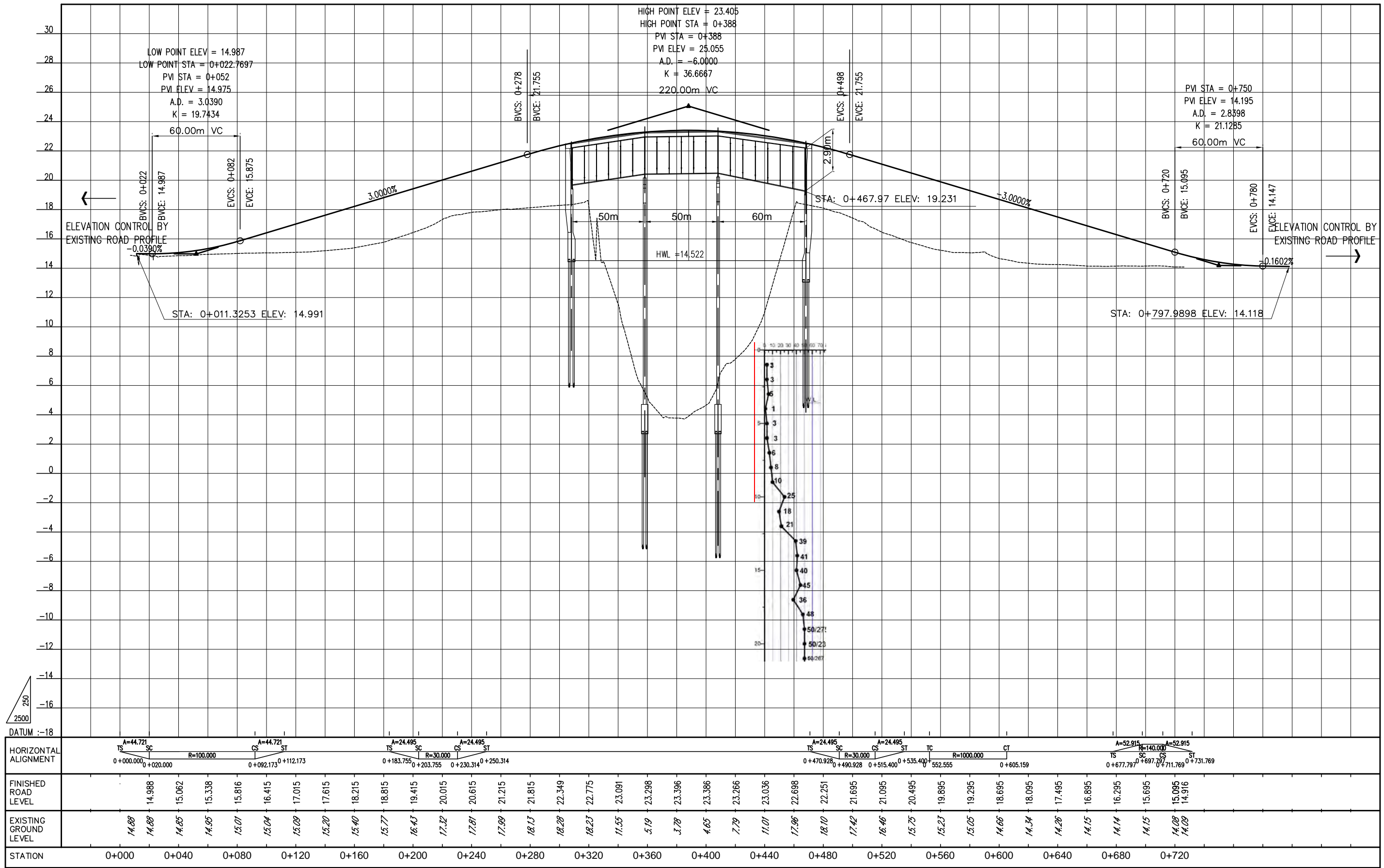


BP		IP-1		IP-2		EP	
X	438660.092	V (Kph)	80	65	V (Kph)	X	438770.990
Y	784420.208	TYPE	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	TYPE	Y	783646.740
STA	0+000	$\Delta$	17°30'28.20"	35°29'44.53"	$\Delta$	STA	0+793.948
		R (m)	500.000	260.000	R (m)		
		A	158.114	158.114	114.018	A	
		TS / TC (m)	102.022	102.022	108.336	108.336	TS / TC (m)
		LC (m)	102.785		111.074		LC (m)
		LS (m)	50.000	50.000	50.000	50.000	LS (m)
		L (m)	202.785		211.074		L (m)
		e max (%)					e max (%)
		PI	E	438655.813	438807.968	E	PI
			N	784295.805	783748.571	N	
		TS/SS	E	438659.320	438778.947	E	TS/SS
			N	784397.767	783852.948	N	
			STA	0+022.454	0+582.873	STA	
		SC/TC /CC	E	438658.435	438790.785	E	SC/TC /CC
			N	784347.780	783804.391	N	
			STA	0+072.454	0+632.873	STA	
		CS/CT /CC	E	438670.555	438786.535	E	CS/CT /CC
			N	784245.895	783694.241	N	
			STA	0+175.239	0+743.948	STA	
		ST/SS	E	438683.143	438770.990	E	ST/SS
			N	784197.511	783646.740	N	
			STA	0+225.239	0+793.948	STA	
		181°58'10.66"	AZIMUTH	164°27'42.46"	199°57'26.99"	AZIMUTH	

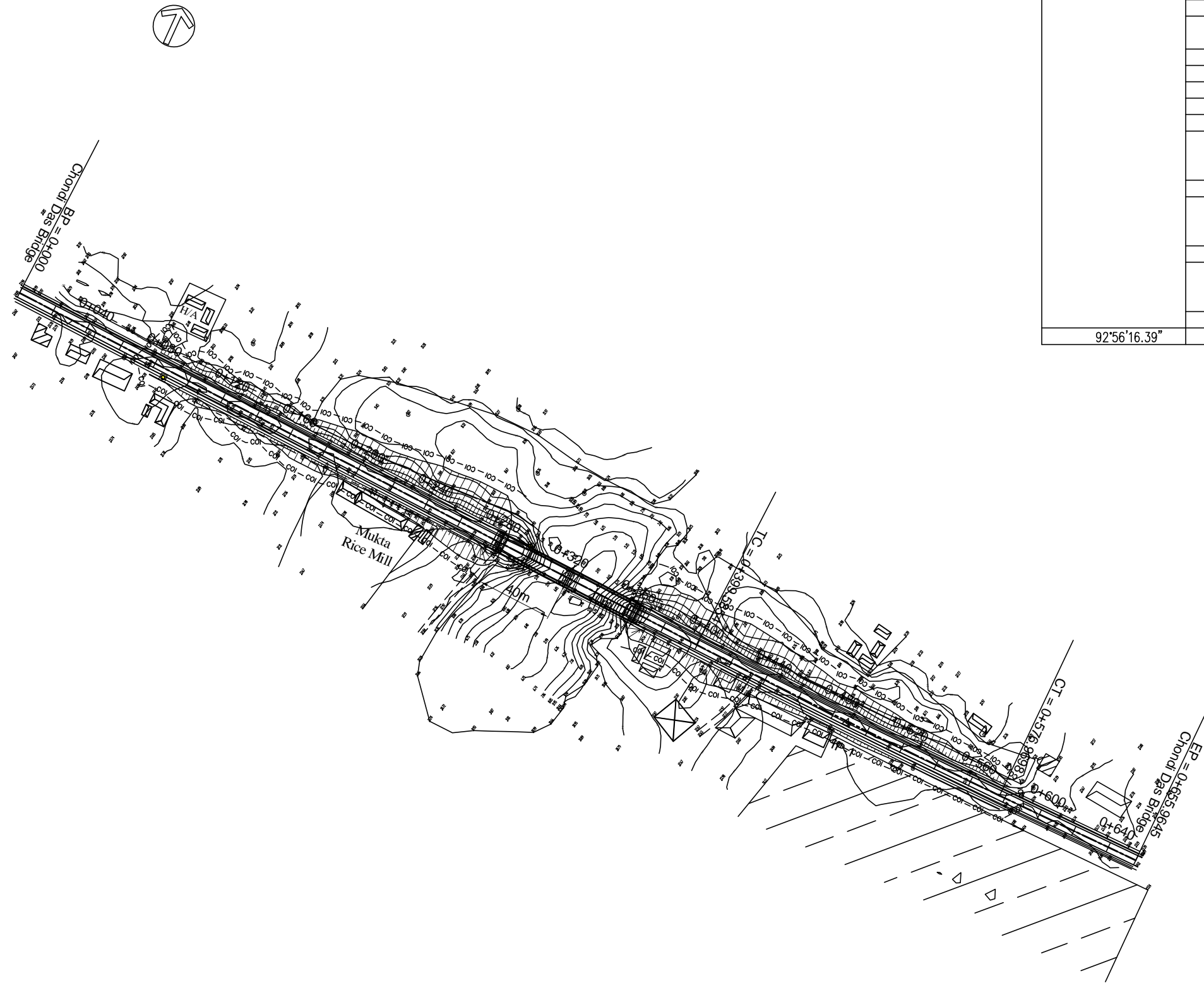


BP				IP-1		IP-2		IP-3		IP-4		IP-5				EP	
X	396262.8204	V (Kph)	40	30		30		30		50		50		V (Kph)	X	396282.9324	
Y	722047.4944	TYPE	spiral-circle-spiral	spiral-circle-spiral		spiral-circle-spiral		spiral-circle-spiral		spiral-circle-spiral		spiral-circle-spiral		TYPE	Y	722321.8354	
STA	0+000	$\Delta$	52°48'39.43"	88°55'14.41"		84°56'10.38"		3°00'50.31"		13°54'12.37"		$\Delta$	STA	0+731.7692			
		R (m)	100.0000	30.0000		30.0000		1000.0000		140.0000		R (m)					
		A	44.7214	44.7214	24.4949	24.4949	24.4949	24.4949		52.9150	52.9150	A					
		TS / TC (m)	59.7317	59.7317	39.9462	39.9462	37.9288	37.9288	26.3080	27.0829	27.0829	TS / TC (m)					
		LC (m)	72.1725		26.5588		24.4725		52.6038		13.9725	LC (m)					
		LS (m)	20.0000	20.0000	20.0000	20.0000	20.0000	20.0000		20.0000	20.0000	LS (m)					
		L (m)	112.1730		66.5590		64.4730		52.6038		53.9730	L (m)					
		e max (%)										e max (%)					
		PI	E	396291.6833	396461.1530	396509.7661	396430.9449	396307.4123	E	PI		N					
			N	721995.1989	721970.4945	722264.9978	722285.2898	722310.2500	N								
		TS/SS	E	396262.8204	396421.6246	396503.5889		396333.9587	E	TS/SS		N					
			N	722047.4944	721976.2568	722227.5754		722304.8862	N								
			STA	0+000	0+183.7554	0+470.9277		0+677.7967	STA								
		SC/TC /CC	E	396273.0582	396441.5147	396504.6349	396456.4221	396314.4592	E	SC/TC /CC		N					
			N	722030.3237	721975.5853	722247.4493	722278.7309	722309.3118	N								
			STA	0+020	0+203.7554	0+490.9277	0+552.5547	0+697.7967	STA								
		CS/CT /CC	E	396331.1154	396462.2624	396491.6397	722290.5001	396301.2045	E	CS/CT /CC		N					
			N	721990.1240	721990.7516	722267.3878	396405.1581	722313.7145	N								
			STA	0+092.1725	0+230.3142	0+515.4002	0+605.1585	0+711.7692	STA								
		ST/SS	E	396350.7904	396467.6589	396473.0350		396282.9324	E	ST/SS		N					
			N	721986.5826	722009.9074	722274.4540		722321.8354	N								
			STA	0+112.1725	0+250.3142	0+535.4002		0+731.7692	STA								
151°06'17.29"		AZIMUTH		98°17'37.87"	9°22'23.45"	284°26'13.07"	281°25'22.76"	295°19'35.13"		AZIMUTH							

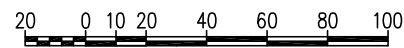
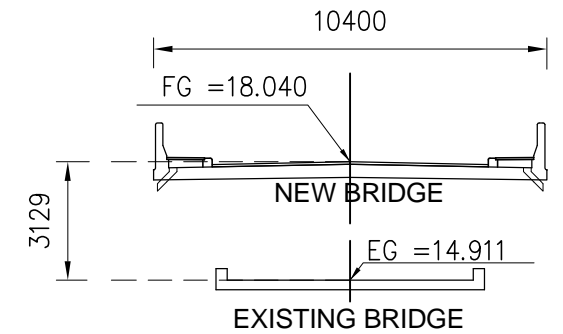




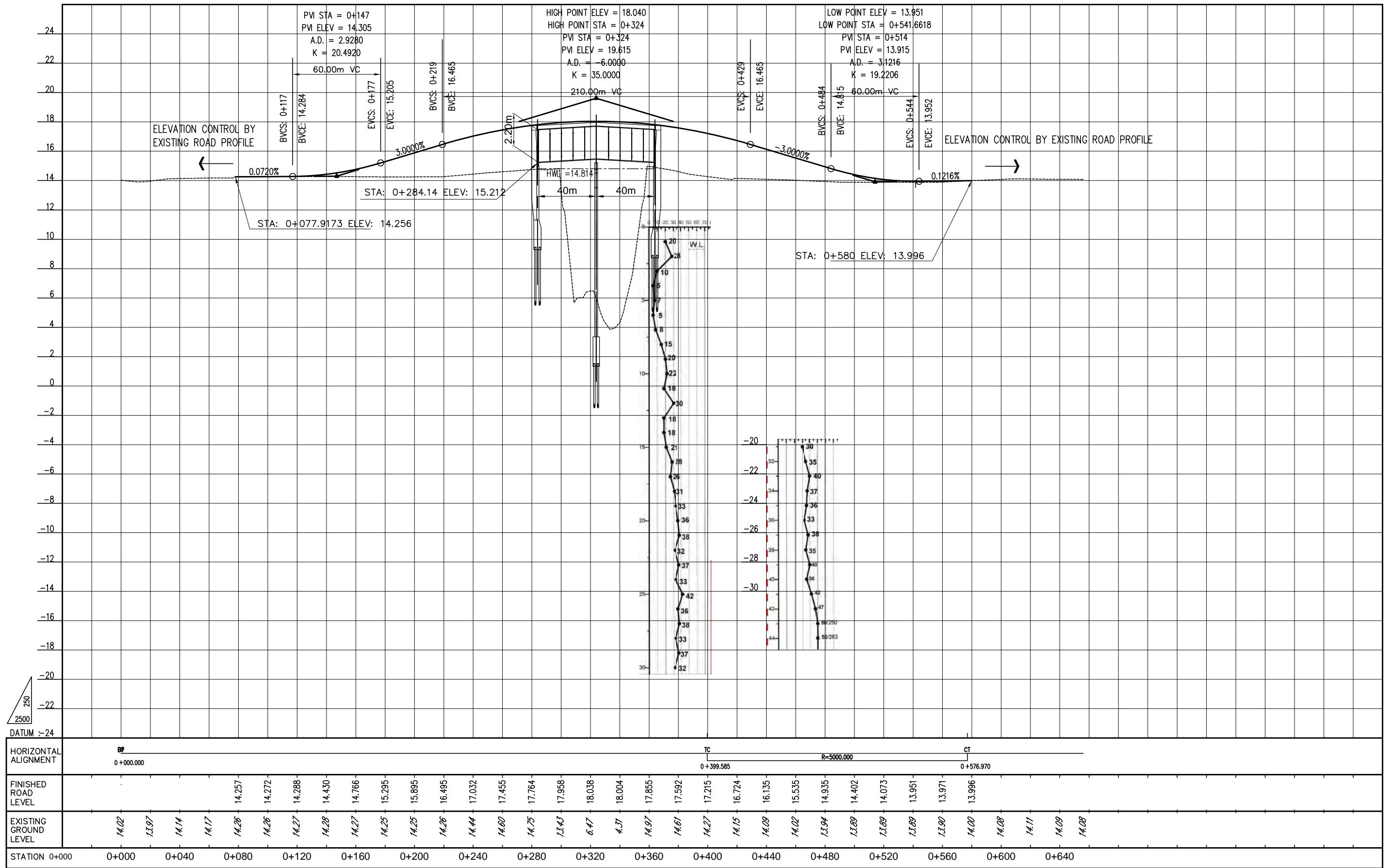
HORIZONTAL ALIGNMENT	0+000.000	0+020.000	0+092.173	0+112.173	0+183.755	0+203.755	0+230.314	0+250.314	0+470.928	0+490.928	0+515.400	0+535.400	0+552.555	0+605.159	0+677.797	0+697.797	0+711.769	0+731.769																				
FINISHED ROAD LEVEL	14.88	14.88	14.85	14.95	15.01	15.04	15.09	15.20	15.40	15.77	16.43	17.32	17.81	17.99	18.13	18.28	18.23	11.55	5.19	3.78	4.65	7.79	11.01	17.96	22.251	21.695	21.095	20.495	19.895	19.295	18.695	18.095	17.495	16.895	16.295	15.695	15.095	14.916
EXISTING GROUND LEVEL	14.88	14.88	14.85	14.95	15.01	15.04	15.09	15.20	15.40	15.77	16.43	17.32	17.81	17.99	18.13	18.28	18.23	11.55	5.19	3.78	4.65	7.79	11.01	17.96	22.251	21.695	21.095	20.495	19.895	19.295	18.695	18.095	17.495	16.895	16.295	15.695	15.095	14.916
STATION	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+320	0+360	0+400	0+440	0+480	0+520	0+560	0+600	0+640	0+680	0+720																			



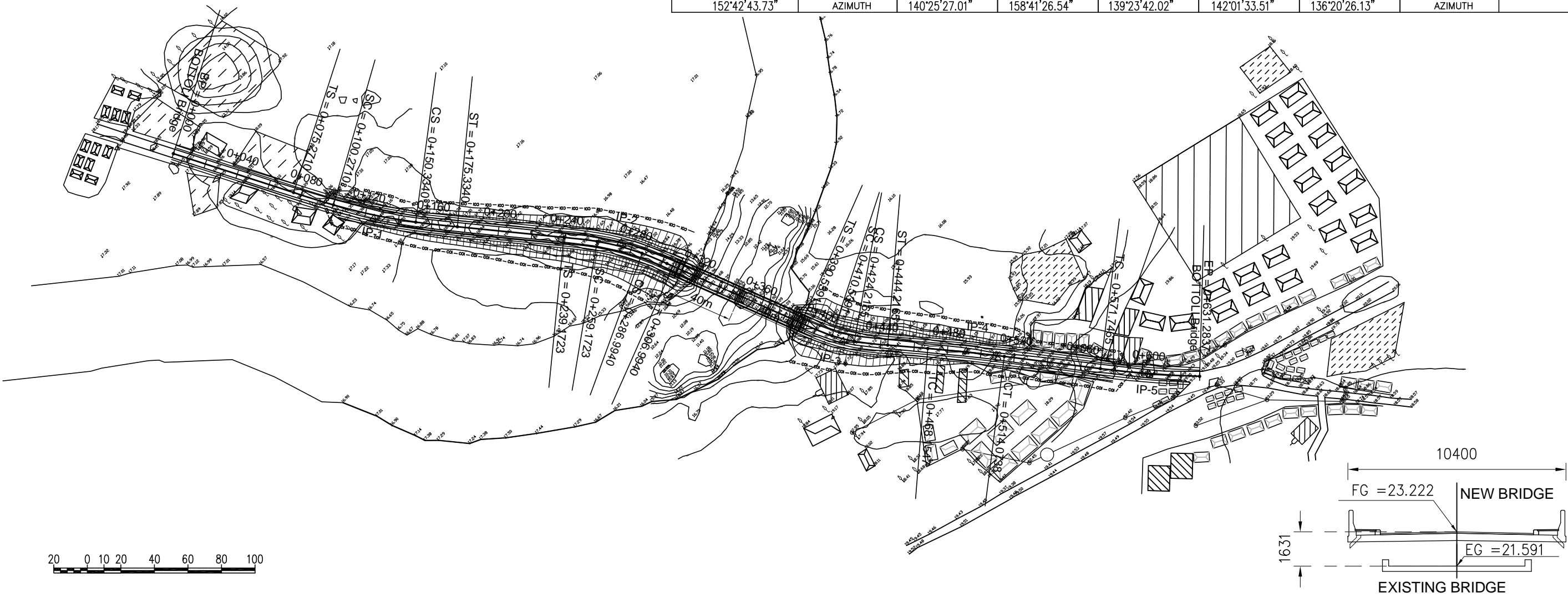
BP		IP-1		EP		
X	464525.3819	V (Kph)	65	V (Kph)	X	465180.7023
Y	703651.5571	TYPE	SPIRAL-CIRCLE-SPIRAL	TYPE	Y	703623.8815
STA	0+000	$\Delta$	2°01'57.63"	$\Delta$	STA	0+655.9645
		R (m)	5000.0000	R (m)		
		A		A		
		TS / TC (m)	88.7015	TS / TC (m)		
		LC (m)	177.3844	LC (m)		
		LS (m)		LS (m)		
		L (m)	177.3844	L (m)		
		e max (%)		e max (%)		
		PI	E 465013.0270	E	PI	
			N 703626.5308	N		
		TS/SS	E	E	TS/SS	
			N	N		
			STA	STA		
		SC/TC /CC	E 464924.4421	E	SC/TC /CC	
			N 703631.0771	N		
			STA 0+399.5854	STA		
		CS/CT /CC	E 703625.1295	E	CS/CT /CC	
			N 465101.7174	N		
			STA 0+576.9698	STA		
		ST/SS	E	E	ST/SS	
			N	N		
			STA	STA		
		92°56'16.39"	AZIMUTH	90°54'18.76"	AZIMUTH	



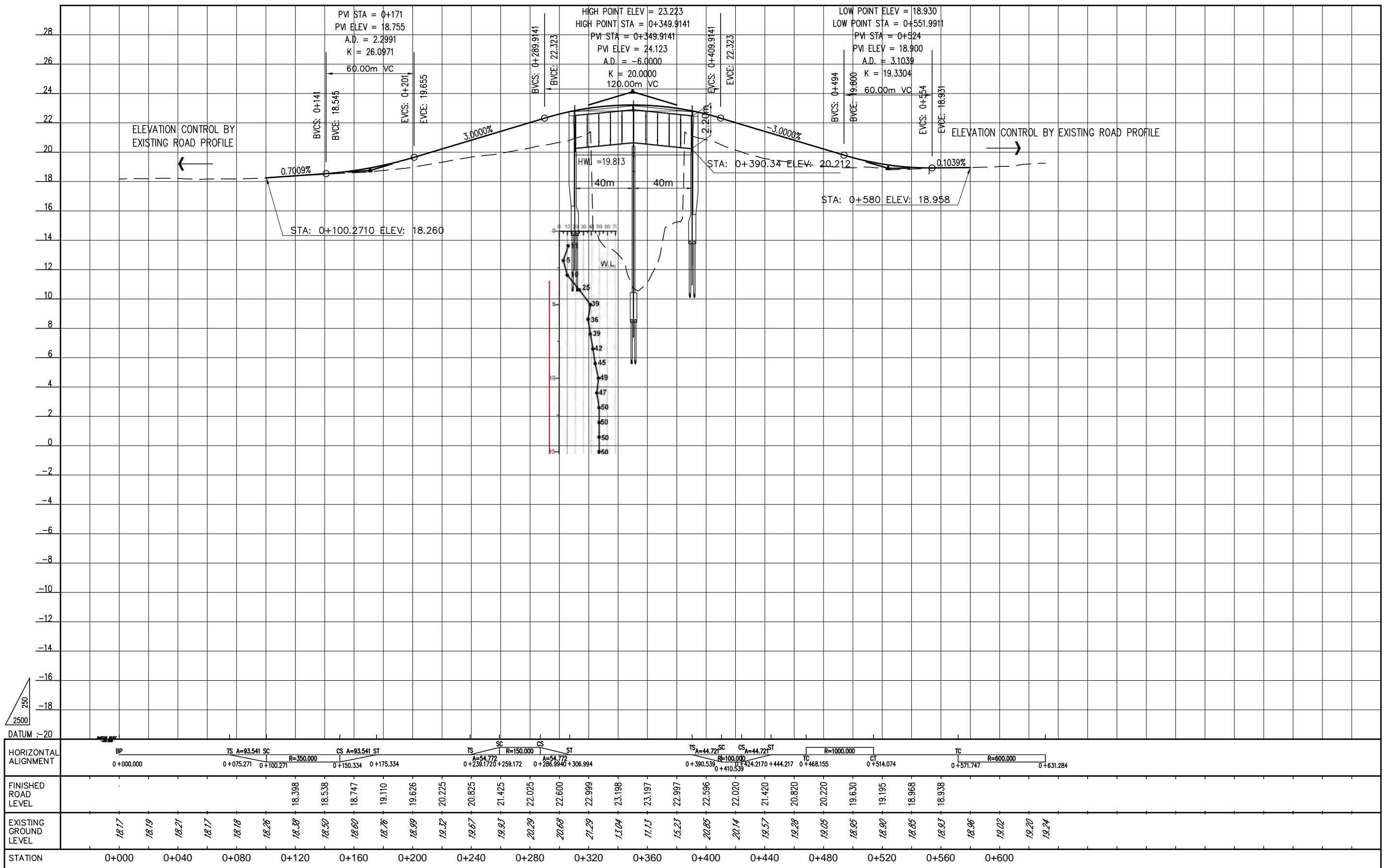
<b>MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)</b> PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT (RHD)	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>ORIENTAL CONSULTANTS GLOBAL CO., LTD.</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	No	REVISION	DATE	<b>PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT</b> PLAN OF CHONDI DAS BRIDGE (R451_7a) RANK : 19, SN : 75, ZONE : RAJSHAHI, BRIDGE TYPE : SIG	DESIGNED BY:	
						CHECKED BY:	
						DWG. NO.	BR 019-1

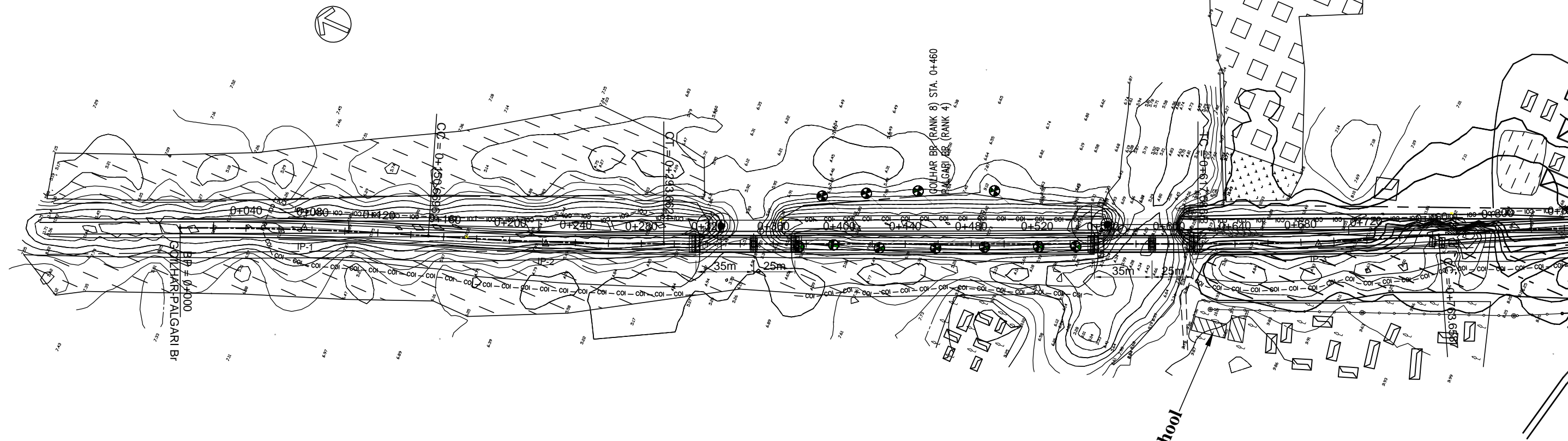
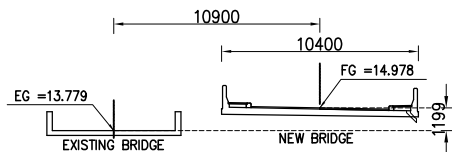


BP			IP-1	IP-2	IP-3	IP-4	IP-5		EP			
X	408736.2213	v (Kph)	50		50		65		65		X	409077.3409
Y	772933.7477	TYPE	SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		FULL CIRCLE		FULL CIRCLE	
STA	0+000	$\Delta$	12°17'16.72"		18°15'59.53"		19°17'44.52"		2°37'51.49"		5°41'07.38"	
		R (m)	350.0000		150.0000		100.0000		1000.0000		600.0000	
		A	93.5414	93.5414	54.7723	54.7723	44.7214	44.7214				
		TS / TC (m)	50.1835	50.1835	34.1318	34.1318	27.0246	27.0246	22.9636	29.7930	TS / TC (m)	
		LC (m)	50.0630		27.8217		13.6774		45.9191		59.5372	
		LS (m)	25.0000	25.0000	20.0000	20.0000	20.0000	20.0000	LS (m)			
		L (m)	100.0630		67.8220		53.6770		45.9191		59.5372	
		e max (%)										
		PI	E	408793.7373	408888.1259	408940.7108	408988.8251	409056.7727	E	PI		
			N	772822.2544	772708.0603	772573.2516	772517.1256	772430.0752	N			
		TS/SS	E	408770.7302	408866.3805	408930.8899			E	TS/SS		
			N	772866.8532	772734.3685	772598.4286			N			
			STA	0+075.2710	0+239.1723	0+390.5391			STA			
		SC/TC /CC	E	408782.4547	408878.7744	408938.7714	408973.8794	409038.4409	E	SC/TC /CC		
			N	772844.7746	772718.6766	772580.0567	772534.5598	772453.5608	N			
			STA	0+100.2710	0+259.1723	0+410.5391	0+468.1547	0+571.7465	STA			
		CS/CT /CC	E	408810.0131	408892.8507	408945.8015	772499.0236	772408.5213	E	CS/CT /CC		
			N	772803.0306	772694.7249	772568.3368	409002.9546	409077.3409	N			
			STA	0+150.3340	0+286.9940	0+424.2165	0+514.0738	0+631.2837	STA			
		ST/SS	E	408825.7092	408900.5294	408958.2995			E	ST/SS		
			N	772783.5739	772676.2619	772552.7341			N			
			STA	0+175.3340	0+306.9940	0+444.2165			STA			
		152°42'43.73"	AZIMUTH	140°25'27.01"	158°41'26.54"	139°23'42.02"	142°01'33.51"	136°20'26.13"	AZIMUTH			

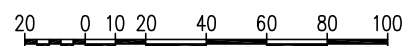


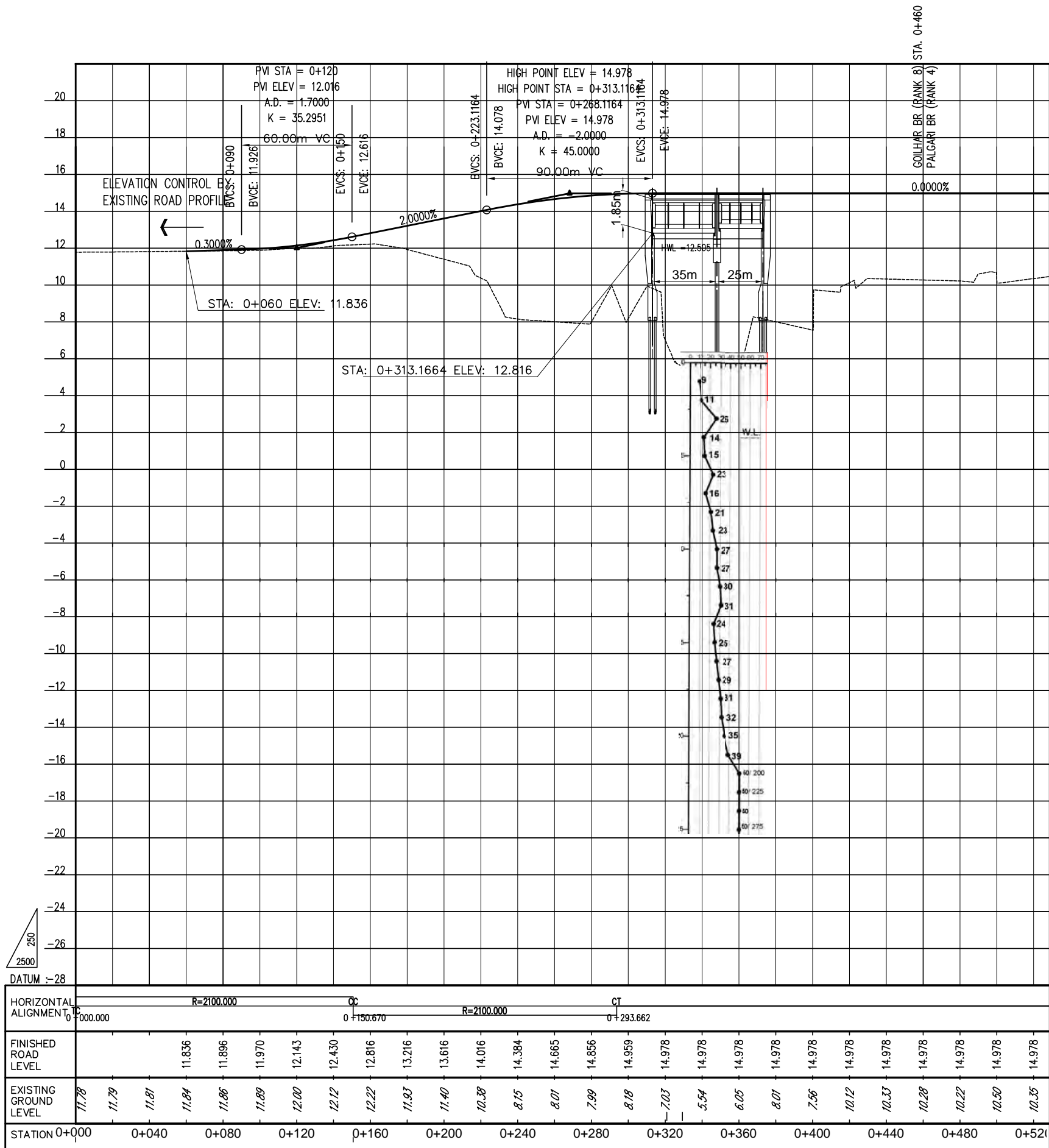


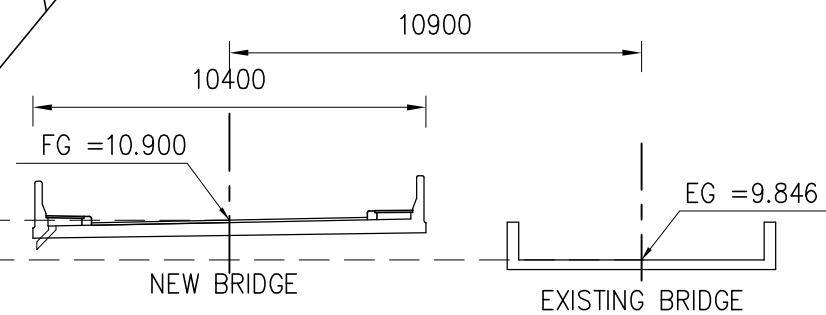
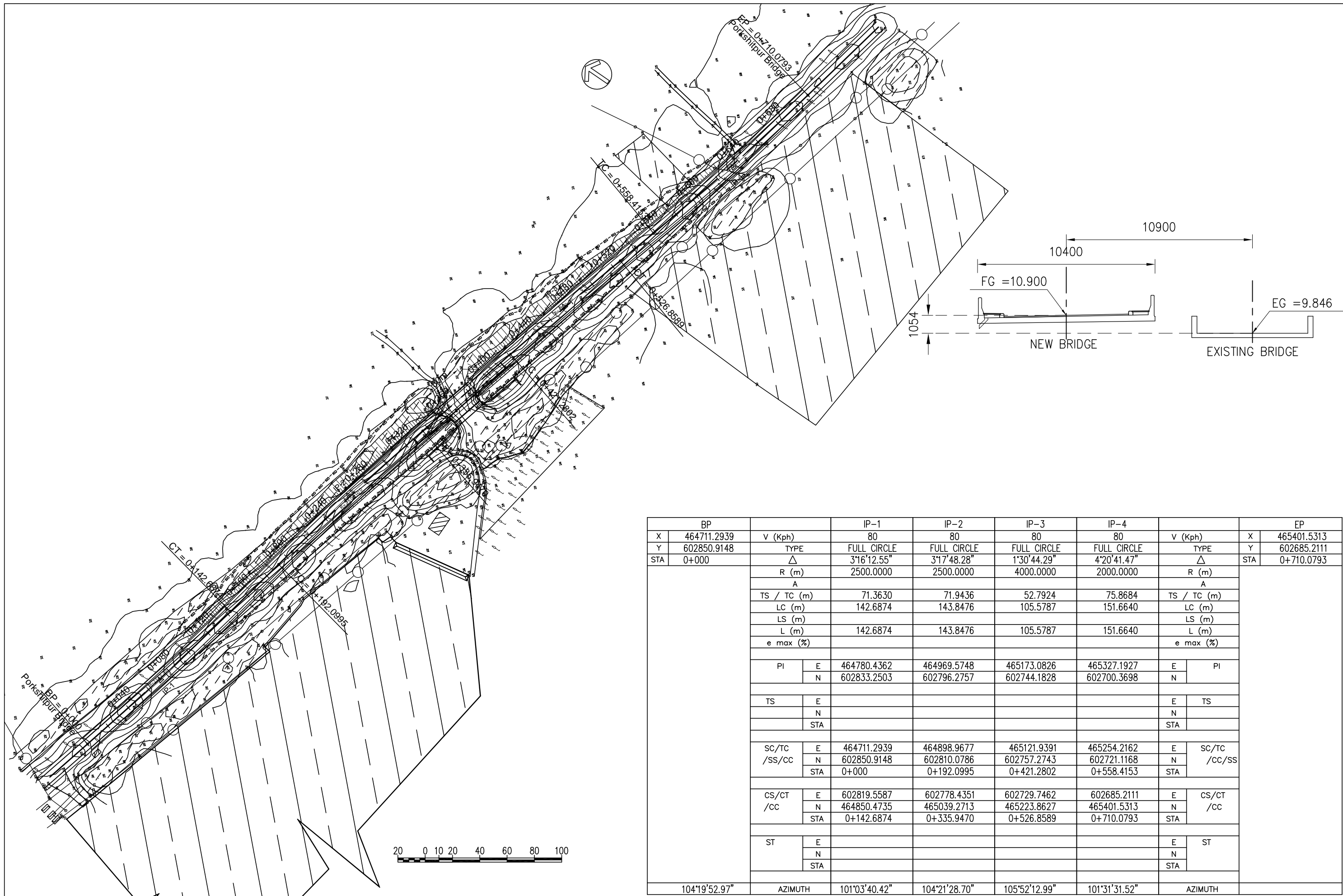




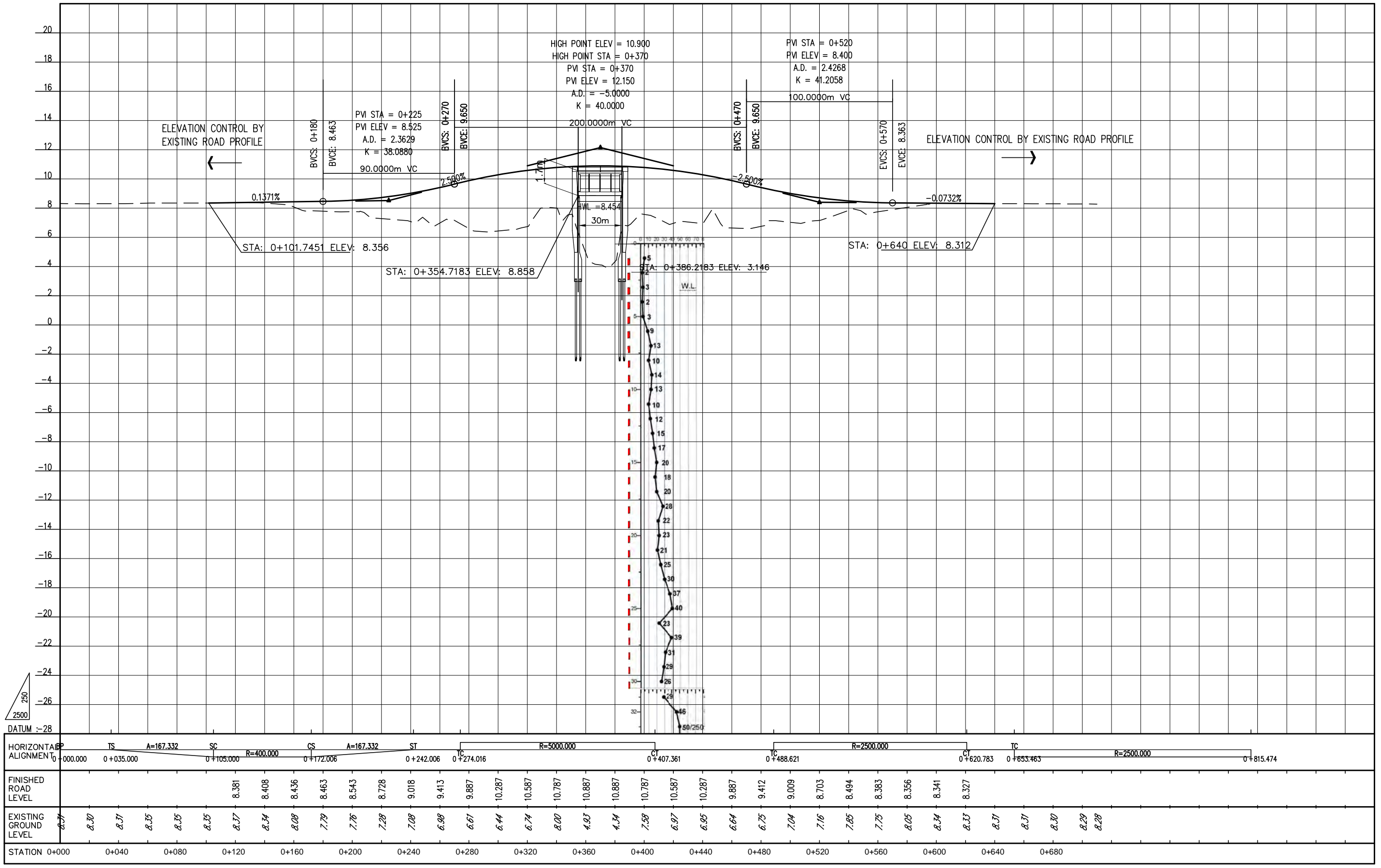
BP		IP-1	IP-2	IP-3
X	457505.1528	80	80	80
Y	666363.9548			
STA	0+000			
	$\Delta$	4°06'38.97"	3°54'04.95"	4°11'04.78"
	R (m)	2100.0000	2100.0000	2000.0000
	A			
	TS / TC (m)	75.3671	71.5241	73.0686
	LC (m)	150.6696	142.9929	146.0723
	LS (m)			
	L (m)	150.6696	142.9929	146.0723
	e max (%)			
PI	E	457535.3117	457584.2903	457770.2014
	N	666294.8850	666156.3999	665726.3476
TS/SS	E			
	N			
	STA			
SC/TC /CC	E	457505.1528	457560.4417	457741.2072
	N	666363.9548	666223.8309	665793.4174
	STA	0+000	0+150.6696	0+617.5865
CS/CT /CC	E	666223.8309	666090.7479	665661.5724
	N	457560.4417	457612.6717	457804.0125
	STA	0+150.6696	0+293.6624	0+763.6587
ST/SS	E			
	N			
	STA			
156°24'42.43"	AZIMUTH	160°31'21.40"	156°37'16.45"	152°26'11.66"

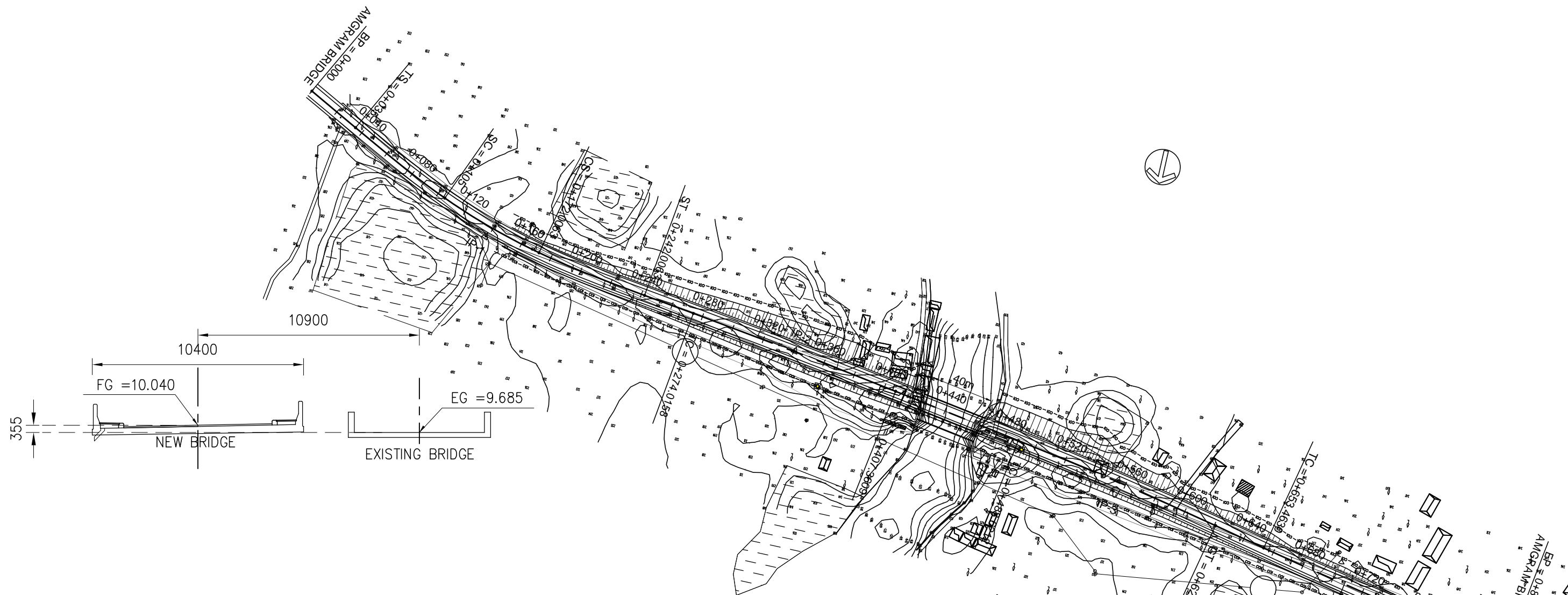




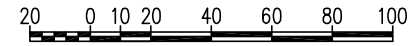


BP		IP-1	IP-2	IP-3	IP-4	EP			
X	464711.2939	v (Kph)	80	80	80	80	v (Kph)	X	465401.5313
Y	602850.9148	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE	Y	602685.2111
STA	0+000	$\Delta$	3°16'12.55"	3°17'48.28"	1°30'44.29"	4°20'41.47"	$\Delta$	STA	0+710.0793
		R (m)	2500.0000	2500.0000	4000.0000	2000.0000	R (m)		
		A					A		
		TS / TC (m)	71.3630	71.9436	52.7924	75.8684	TS / TC (m)		
		LC (m)	142.6874	143.8476	105.5787	151.6640	LC (m)		
		LS (m)					LS (m)		
		L (m)	142.6874	143.8476	105.5787	151.6640	L (m)		
		e max (%)					e max (%)		
		PI	E 464780.4362 N 602833.2503	E 464969.5748 N 602796.2757	E 465173.0826 N 602744.1828	E 465327.1927 N 602700.3698	E N	PI	
		TS	E N STA				E N STA	TS	
		SC/TC /SS/CC	E 464711.2939 N 602850.9148 STA 0+000	E 464898.9677 N 602810.0786 STA 0+192.0995	E 465121.9391 N 602757.2743 STA 0+421.2802	E 465254.2162 N 602721.1168 STA 0+558.4153	E N STA	SC/TC /CC/SS	
		CS/CT /CC	E 602819.5587 N 464850.4735 STA 0+142.6874	E 602778.4351 N 465039.2713 STA 0+335.9470	E 602729.7462 N 465223.8627 STA 0+526.8589	E 602685.2111 N 465401.5313 STA 0+710.0793	E N STA	CS/CT /CC	
		ST	E N STA				E N STA	ST	
		AZIMUTH	104°19'52.97"	101°03'40.42"	104°21'28.70"	105°52'12.99"	101°31'31.52"	AZIMUTH	

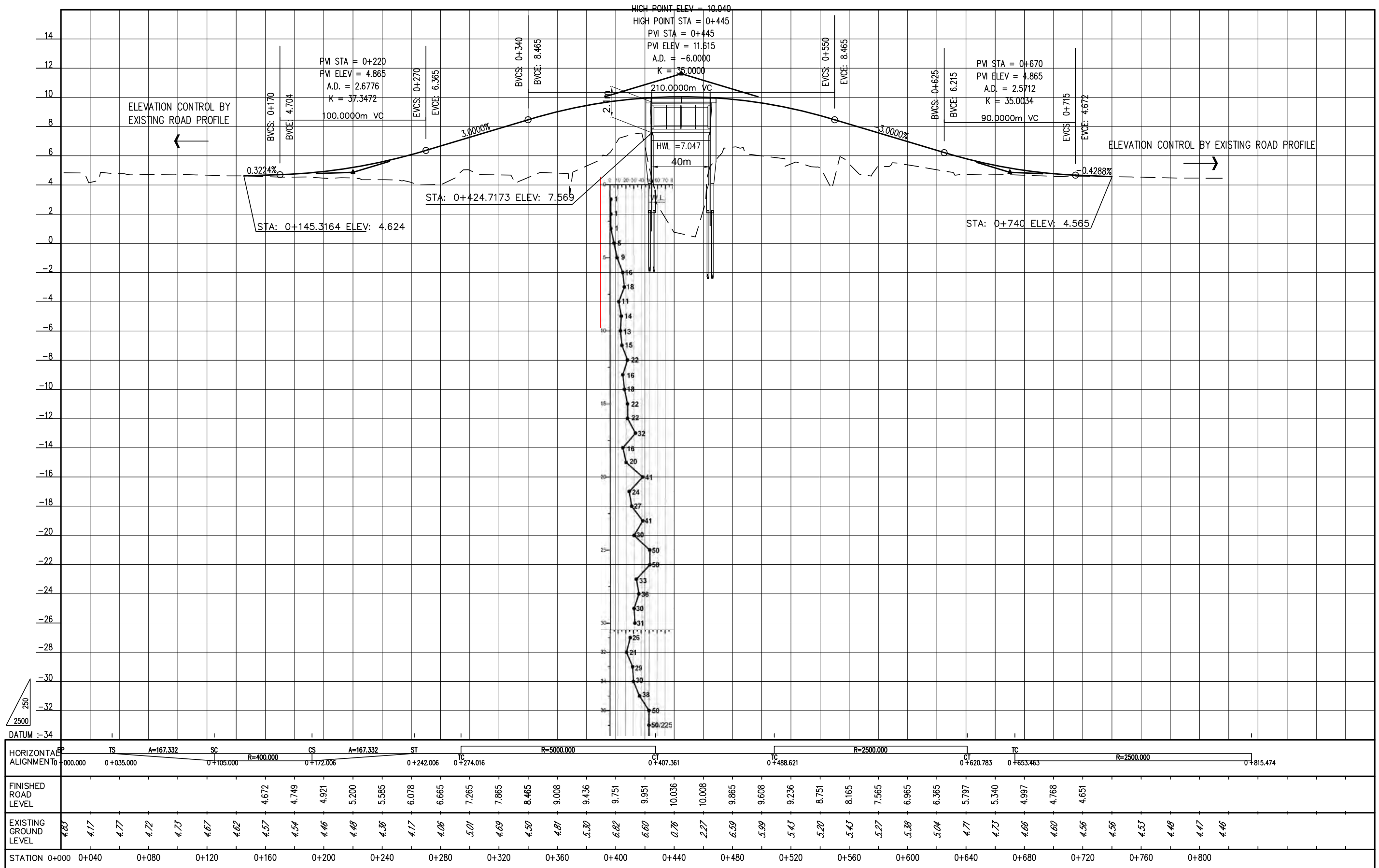




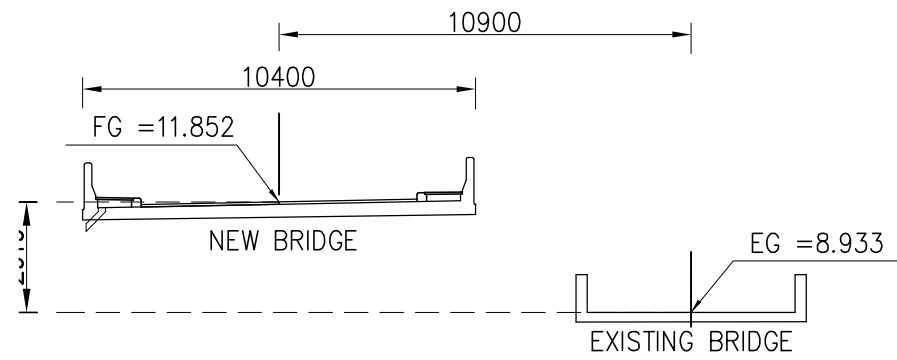
BP				IP-1	IP-2	IP-3	IP-4			EP
X	507560.6247	V (Kph)		65	80	80	80	V (Kph)	X	506769.1592
Y	565147.8595	TYPE		SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE	Y	565325.6688
STA	0+000	$\Delta$		19°37'28.95"	1°31'40.88"	3°01'44.09"	3°42'46.90"	$\Delta$	STA	0+815.4744
		R (m)		400.0000	5000.0000	2500.0000	2500.0000	R (m)		
		A		167.3320   167.3320				A		
		TS / TC (m)		104.2601   104.2601	66.6765	66.0960	81.0341	TS / TC (m)		
		LC (m)		67.0063	133.3451	132.1613	162.0114	LC (m)		
		LS (m)		70.0000   70.0000				LS (m)		
		L (m)		207.0060	133.3451	132.1613	162.0114	L (m)		
		e max (%)						e max (%)		
		PI		E 507437.0779	507236.0366	507024.8680	506849.2608	E	PI	
				N 565212.1213	565239.8612	565274.7598	565313.4115	N		
		TS		E 507529.5739				E	TS	
				N 565164.0103				N		
		STA		0+035				STA		
		SC/TC /SS/CC		E 507466.5783	507302.0873	507090.0795	506928.4006	E	SC/TC /CC/SS	
				N 565194.4769	565230.7475	565263.9827	565295.9926	N		
				STA 0+105	0+274.0158	0+488.6212	0+653.4630	STA		
		CS/CT /CC		E 507402.8074	565250.7330	565288.9677	565325.6688	E	CS/CT /CC	
				N 565214.7901	507170.2524	506960.3171	506769.1592	N		
				STA 0+172.0063	0+407.3609	0+620.7825	0+815.4744	STA		
		ST		E 507333.7963				E	ST	
				N 565226.3722				N		
				STA 0+242.0063				STA		
		297°28'50.95"		277°51'22.00"	279°23'02.88"	282°24'46.97"	278°42'00.07"			
		AZIMUTH						AZIMUTH		



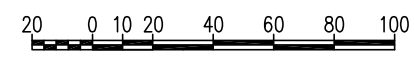
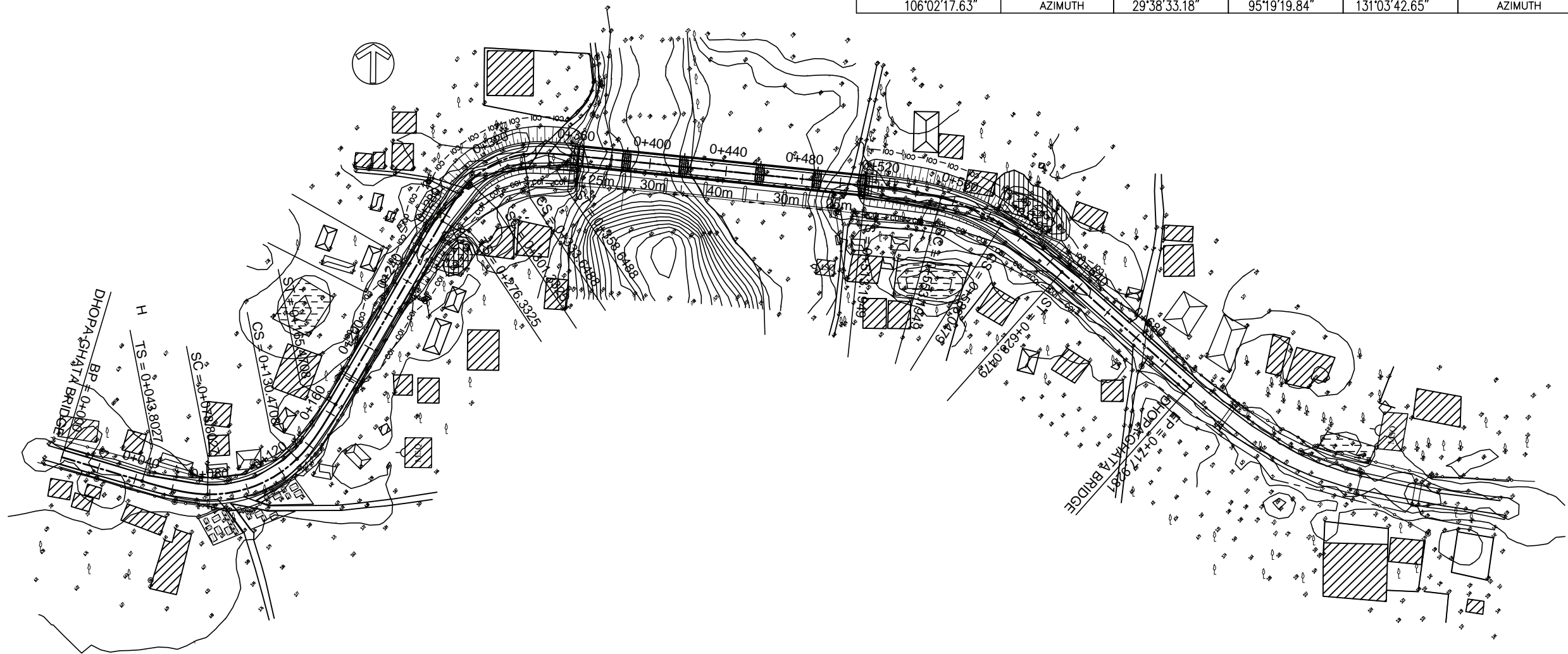
			No	REVISION	DATE	<b>PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT</b>		DESIGNED BY:	
						PLAN OF AMGRAM BRIDGE (N8_095a) RANK : 23, SN : 26, ZONE : GOPALGANJ, BRIDGE TYPE : PCG		CHECKED BY:	
								APPROVED BY:	
								DWG. NO.	BR 023-1



HORIZONTAL ALIGNMENT	TS	A=167.332	SC	R=400.000	CS	A=167.332	ST	TC	R=5000.000	CT	TC	R=2500.000	CT	TC	R=2500.000																										
STATION	0+000	0+035.000	0+105.000	0+172.006	0+242.006	0+274.016	0+407.361	0+488.621	0+620.783	0+653.463	0+815.474																														
FINISHED ROAD LEVEL			4.672	4.749	4.921	5.200	5.585	6.078	6.665	7.265	7.865	8.465	9.008	9.436	9.751	9.951	10.036	10.008	9.865	9.608	9.236	8.751	8.165	7.565	6.965	6.365	5.797	5.340	4.997	4.768	4.651										
EXISTING GROUND LEVEL	4.80	4.17	4.77	4.72	4.73	4.67	4.62	4.57	4.54	4.46	4.48	4.36	4.17	4.06	3.01	4.69	4.50	4.81	5.30	6.82	6.60	0.76	2.27	6.59	5.99	5.43	5.20	5.43	5.27	5.38	5.04	4.71	4.73	4.66	4.60	4.56	4.56	4.53	4.48	4.47	4.46

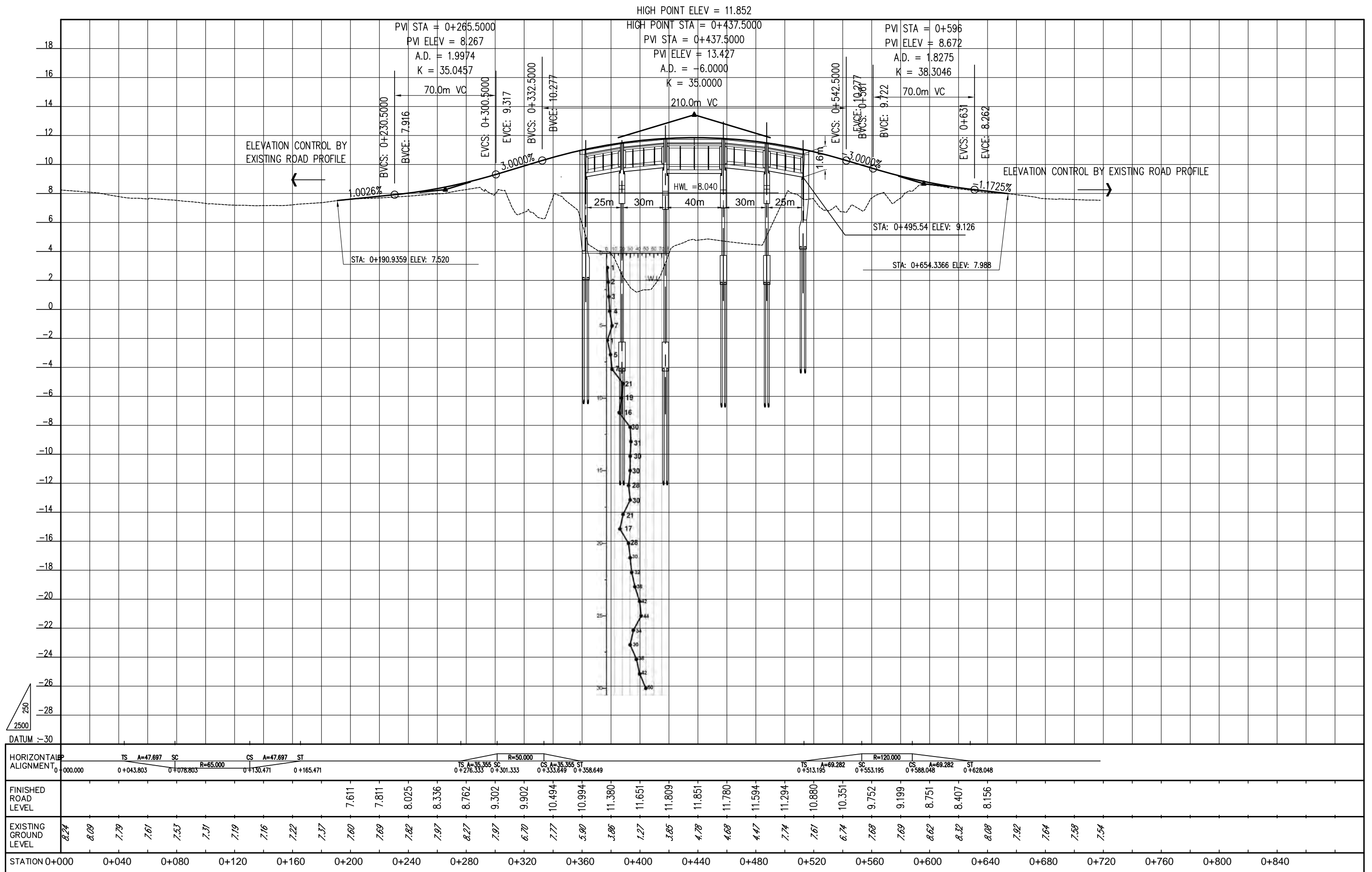


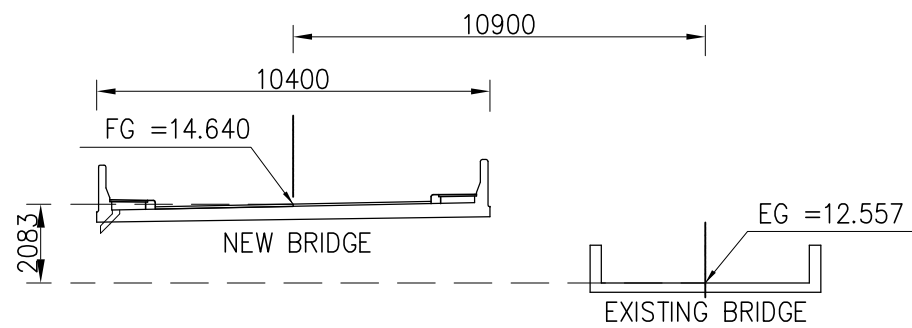
BP		IP-1		IP-2		IP-3		EP			
X	416798.6356	V (Kph)		40		50		V (Kph)	X	417388.1274	
Y	603567.6034	TYPE		SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		TYPE	Y	603610.4013	
STA	0+000	76°23'44.45"		65°40'46.66"		35°44'22.81"		△	STA	0+717.9281	
		R (m)		65.0000		50.0000		120.0000	R (m)		
		A		47.6970		47.6970		35.3553	35.3553	69.2820	69.2820
		TS / TC (m)		69.2201		69.2201		45.0814	45.0814	58.8496	58.8496
		LC (m)		51.6681		32.3163		34.8530	LC (m)		
		LS (m)		35.0000		35.0000		25.0000	40.0000	40.0000	
		L (m)		121.6680		82.3160		114.8530	L (m)		
		e max (%)							e max (%)		
		PI		E		416907.2592		417018.6221	417275.9850	E	PI
		N		603536.3776		603732.0732		603708.0979	N		
		TS		E		416840.7334		416996.3254	417217.3890	E	TS
		N		603555.5017		603692.8917		603713.5566	N		
		STA		0+043.8027		0+276.3325		0+513.1949	STA		
		SC/TC /SS/CC		E		416874.9914		417010.4157	417256.9004	E	SC/TC /CC/SS
		N		603548.9050		603713.4587		603707.6484	N		
		STA		0+078.8027		0+301.3325		0+553.1949	STA		
		CS/CT /CC		E		416921.5933		417038.5797	417288.8244	E	CS/CT /CC
		N		603567.8845		603728.1310		603693.9710	N		
		STA		0+130.4708		0+333.6488		0+588.0479	STA		
		ST		E		416941.4946		417063.5092	417320.3576	E	ST
		N		603596.5387		603727.8917		603669.4412	N		
		STA		0+165.4708		0+358.6488		0+628.0479	STA		
		106°02'17.63"		AZIMUTH		29°38'33.18"		95°19'19.84"	131°03'42.65"	AZIMUTH	



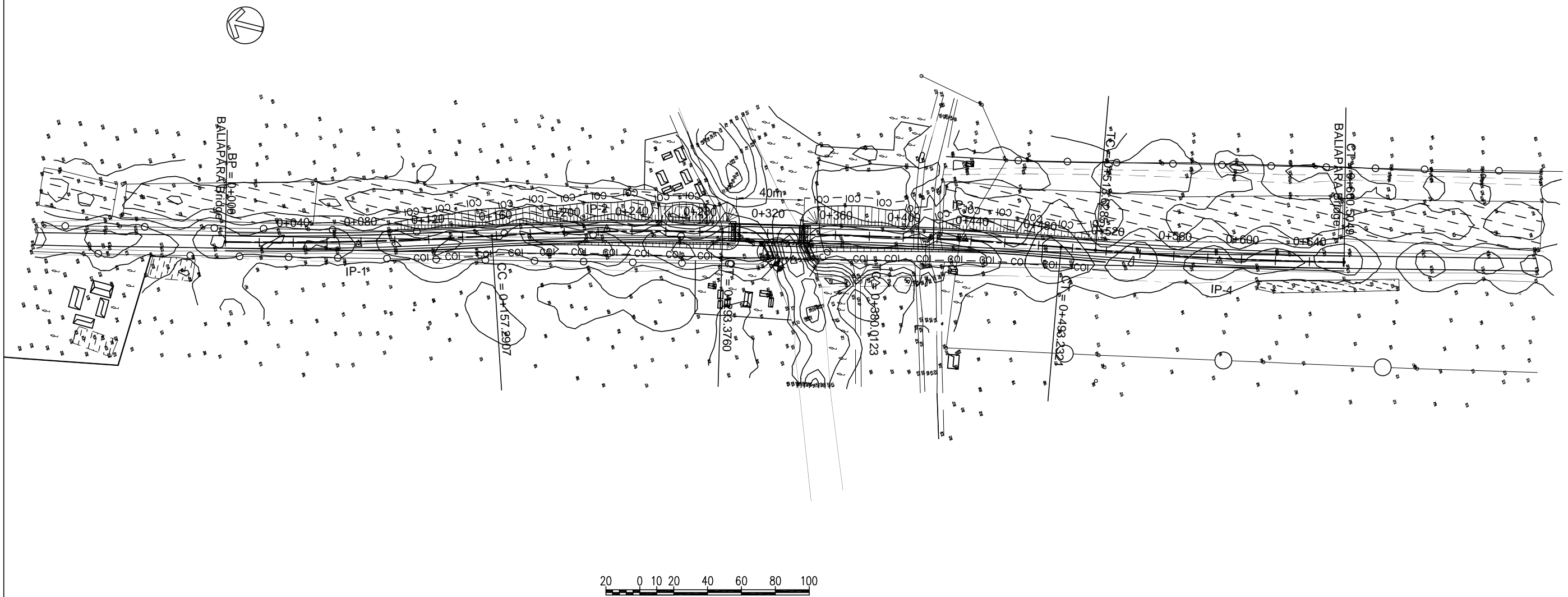
<b>MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)</b> PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT (RHD)	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>ORIENTAL CONSULTANTS GLOBAL CO., LTD.</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT</b>		DESIGNED BY:	
		PLAN OF DHOPA-GHATA BRIDGE (N703_Sd) RANK : 24, SN : 41, ZONE : KHULNA, BRIDGE TYPE : PCG		CHECKED BY:	
No. _____ REVISION _____ DATE _____				APPROVED BY:	
				DWG. NO.	BR 024-1

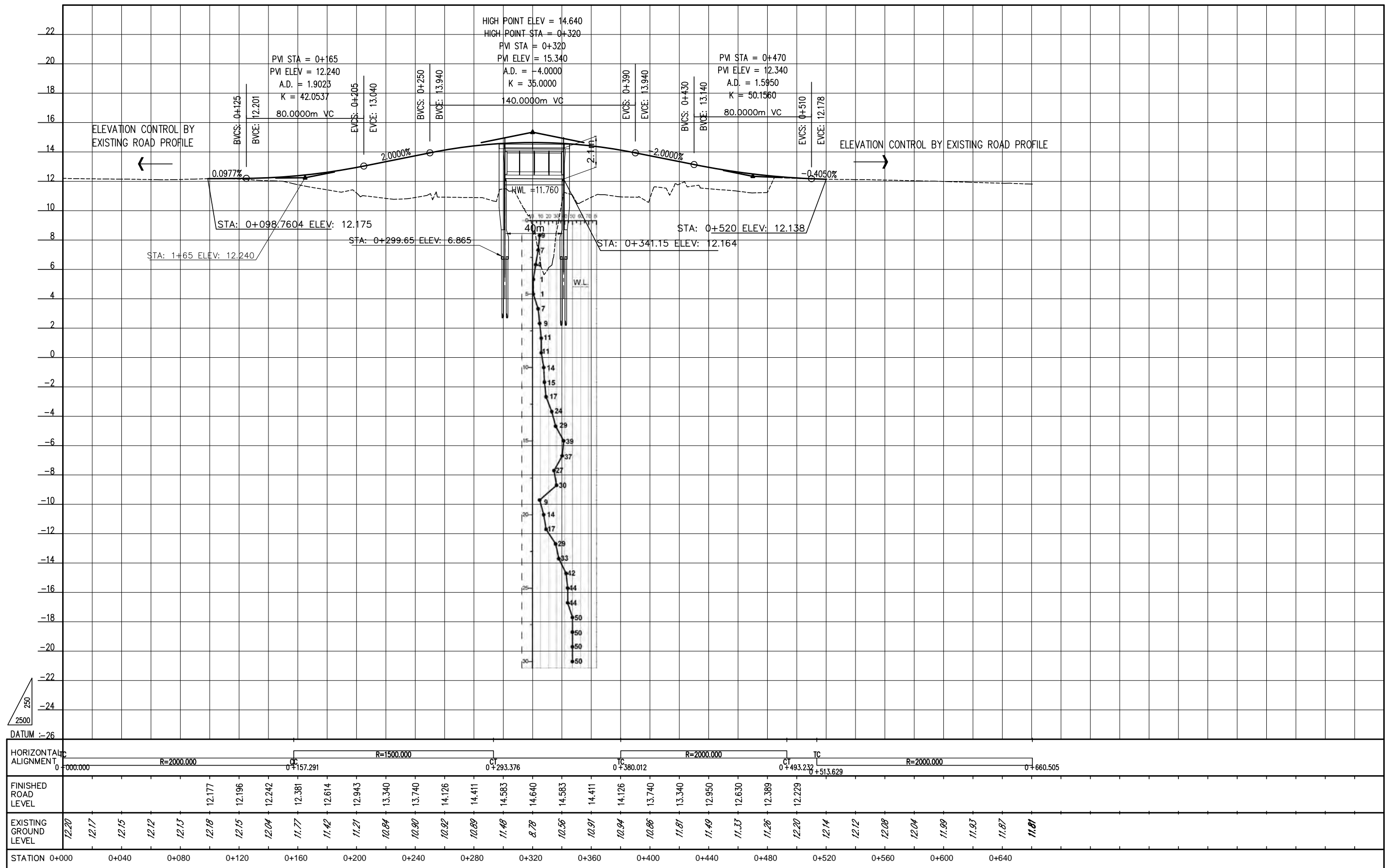


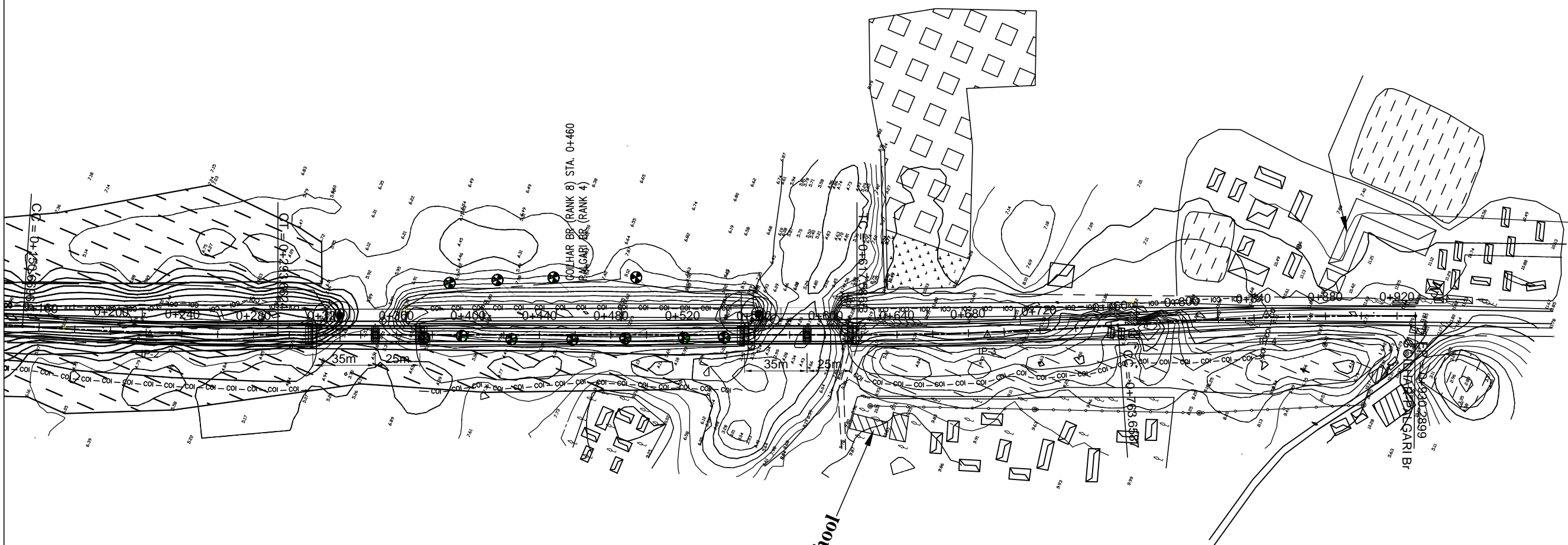
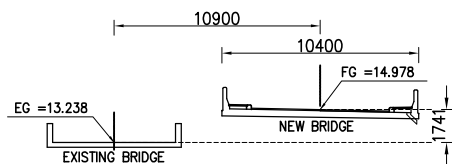




BP			IP-1	IP-2	IP-3	IP-4		EP	
X	409223.1210	V (Kph)	80	80	80	80	V (Kph)	X	409365.8242
Y	634072.4720	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE	Y	633428.1335
STA	0+000	$\Delta$	4'30'21.76"	5'11'53.08"	3'14'36.63"	4'12'27.72"	$\Delta$	STA	0+660.5049
		R (m)	2000.0000	1500.0000	2000.0000	2000.0000	R (m)		
		A					A		
		TS / TC (m)	78.6859	68.0894	56.6250	73.4712	TS / TC (m)		
		LC (m)	157.2907	136.0854	113.2198	146.8764	LC (m)		
		LS (m)					LS (m)		
		L (m)	157.2907	136.0854	113.2198	146.8764	L (m)		
		e max (%)					e max (%)		
		PI	E 409240.2520 N 633995.6736	E 409283.3630 N 633855.3724	E 409326.8822 N 633648.5507	E 409349.4881 N 633499.7656	E N	PI	
		TS	E N STA				E N STA	TS	
		SC/TC /SS/CC	E 409223.1210 N 634072.4720 STA 0+000	E 409263.3637 N 633920.4584 STA 0+157.2907	E 409315.2225 N 633703.9623 STA 0+380.0123	E 409338.4518 N 633572.4032 STA 0+513.6285	E N STA	SC/TC /CC/SS	
		CS/CT /CC	E 633920.4584 N 409263.3637 STA 0+157.2907	E 633788.7421 N 409297.3832 STA 0+293.3760	E 633592.5682 N 409335.3880 STA 0+493.2321	E 633428.1335 N 409365.8242 STA 0+660.5049	E N STA	CS/CT /CC	
		ST	E N STA				E N STA	ST	
	167°25'30.73"	AZIMUTH	162°55'08.97"	168°07'02.05"	171°21'38.67"	167°09'10.95"	AZIMUTH		

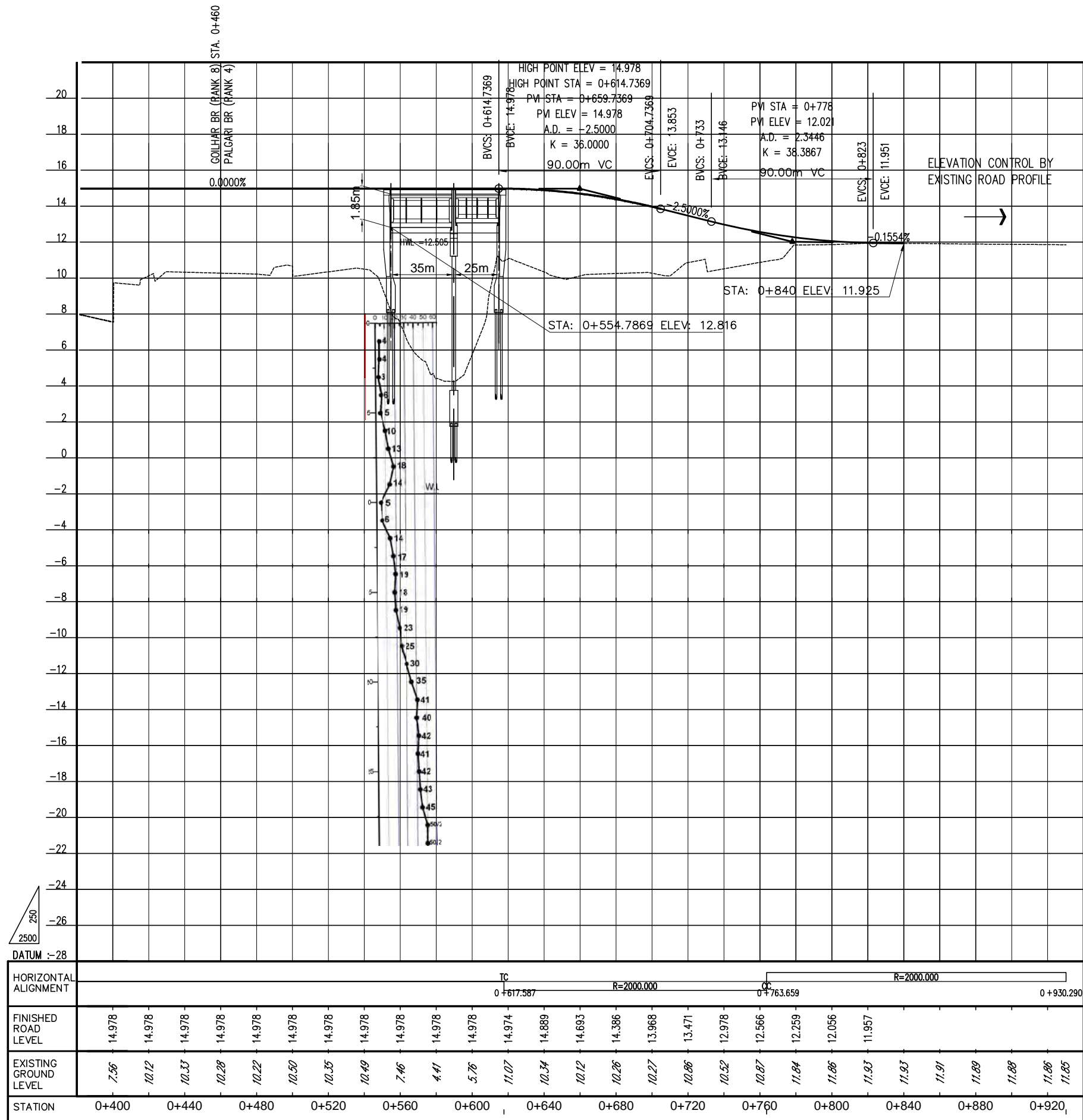


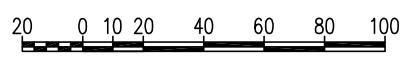
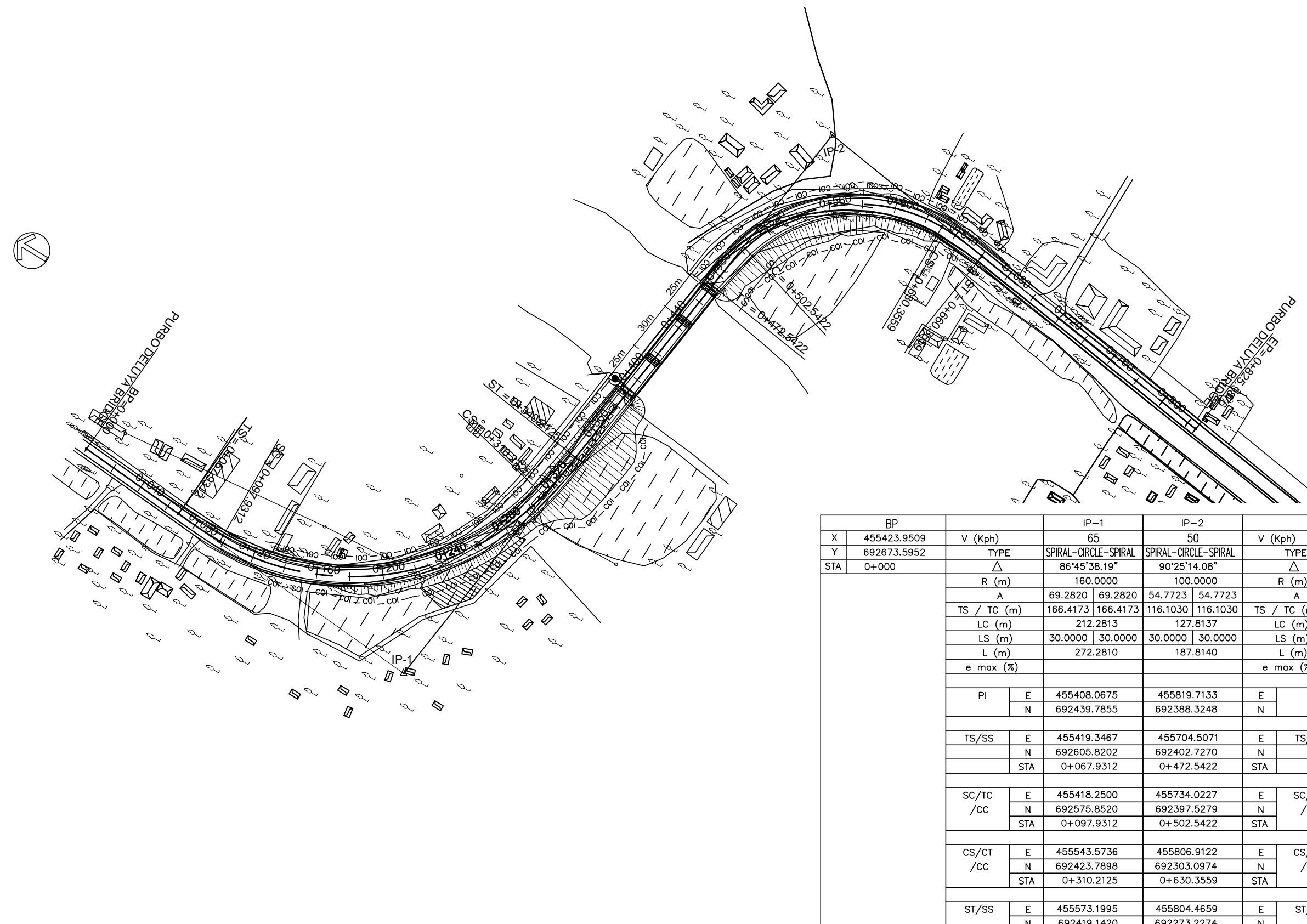
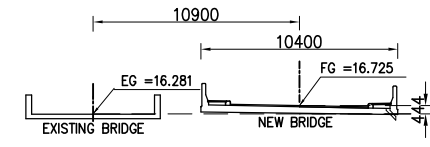




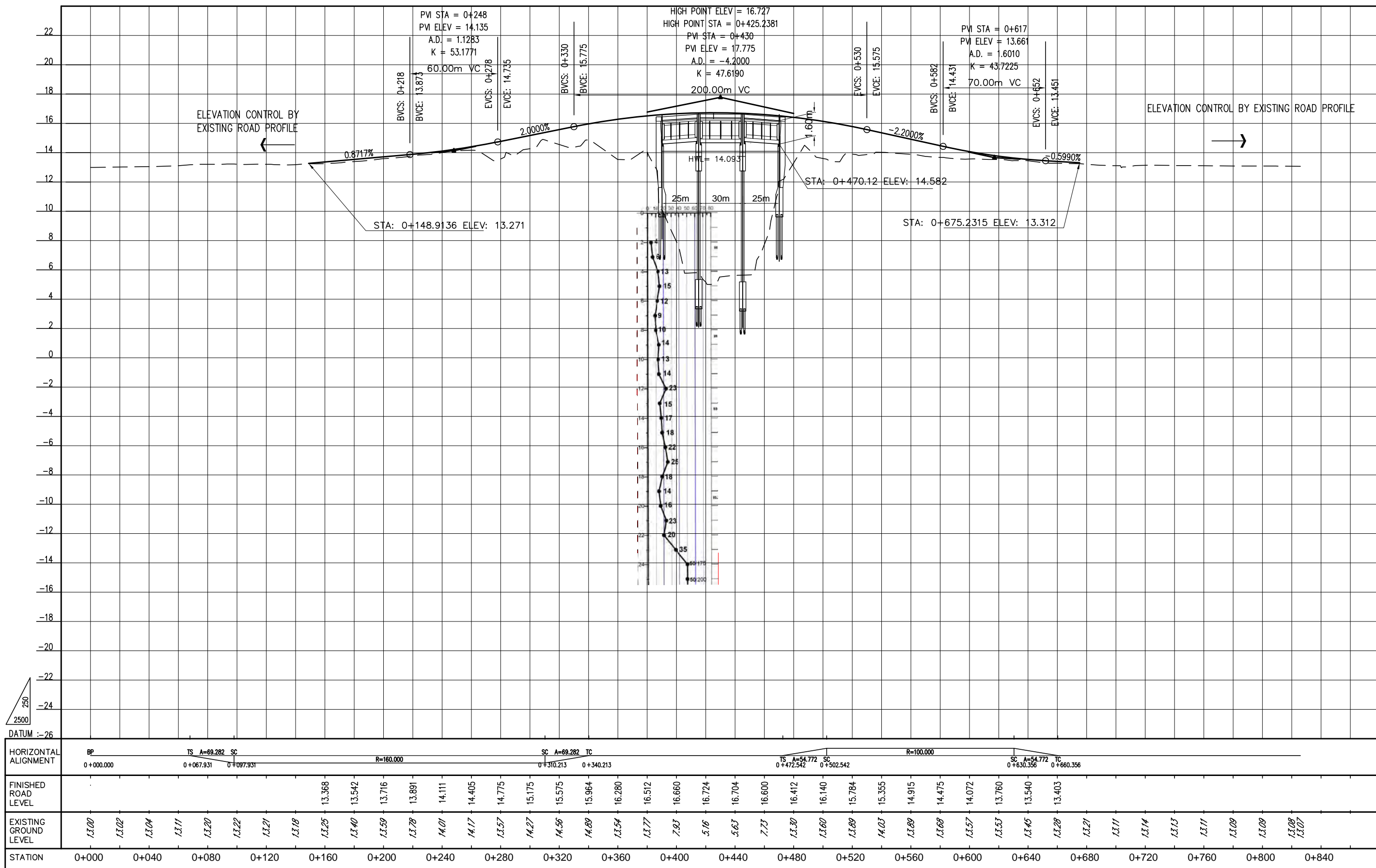
IP-2	IP-3	IP-4	EP	
80	80	80	V (Kph)	X 457874.8785
FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE	Y 665510.8146
3'54'04.95"	4'11'04.78"	4'46'25.07"	△	STA 0+930.2899
2100.0000	2000.0000	2000.0000	R (m)	
			A	
71.5241	73.0686	83.3638	TS / TC (m)	
142.9929	146.0723	166.6312	LC (m)	
			LS (m)	
142.9929	146.0723	166.6312	L (m)	
			e max (%)	
457584.2903	457770.2014	457842.5874	E	PI
666156.3999	665726.3476	665587.6704	N	
			E	TS/SS
			N	
			STA	
457560.4417	457741.2072	457804.0125	E	SC/TC
666223.8309	665793.4174	665661.5724	N	/CC
0+150.6696	0+617.5865	0+763.6587	STA	
666090.7479	665661.5724	665510.8146	E	CS/CT
457612.6717	457804.0125	457874.8785	N	/CC
0+293.6624	0+763.6587	0+930.2899	STA	
			E	ST/SS
			N	
			STA	
156°37'16.45"	152°26'11.66"	157°12'36.74"	AZIMUTH	

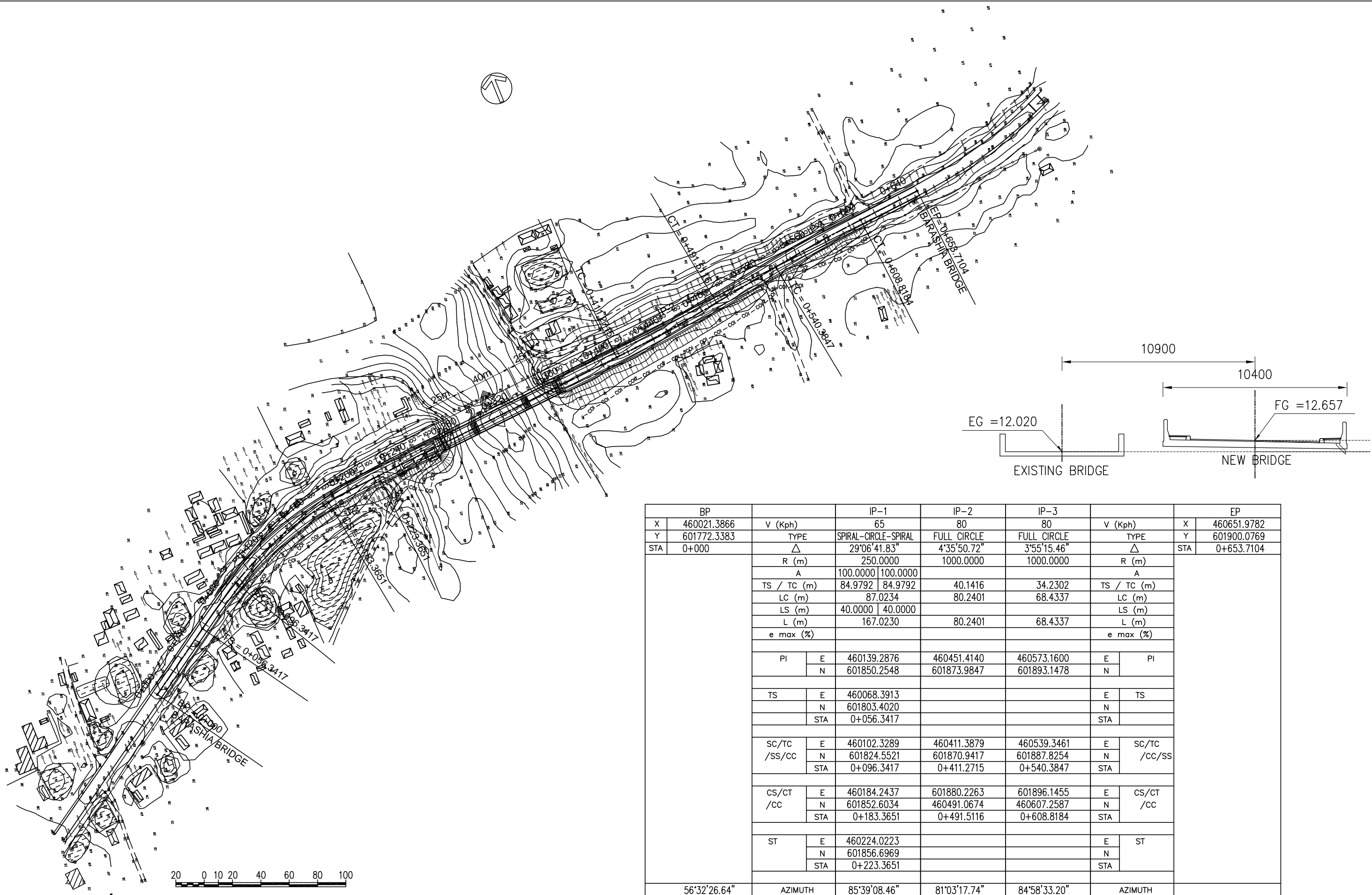
Patgari Primary School





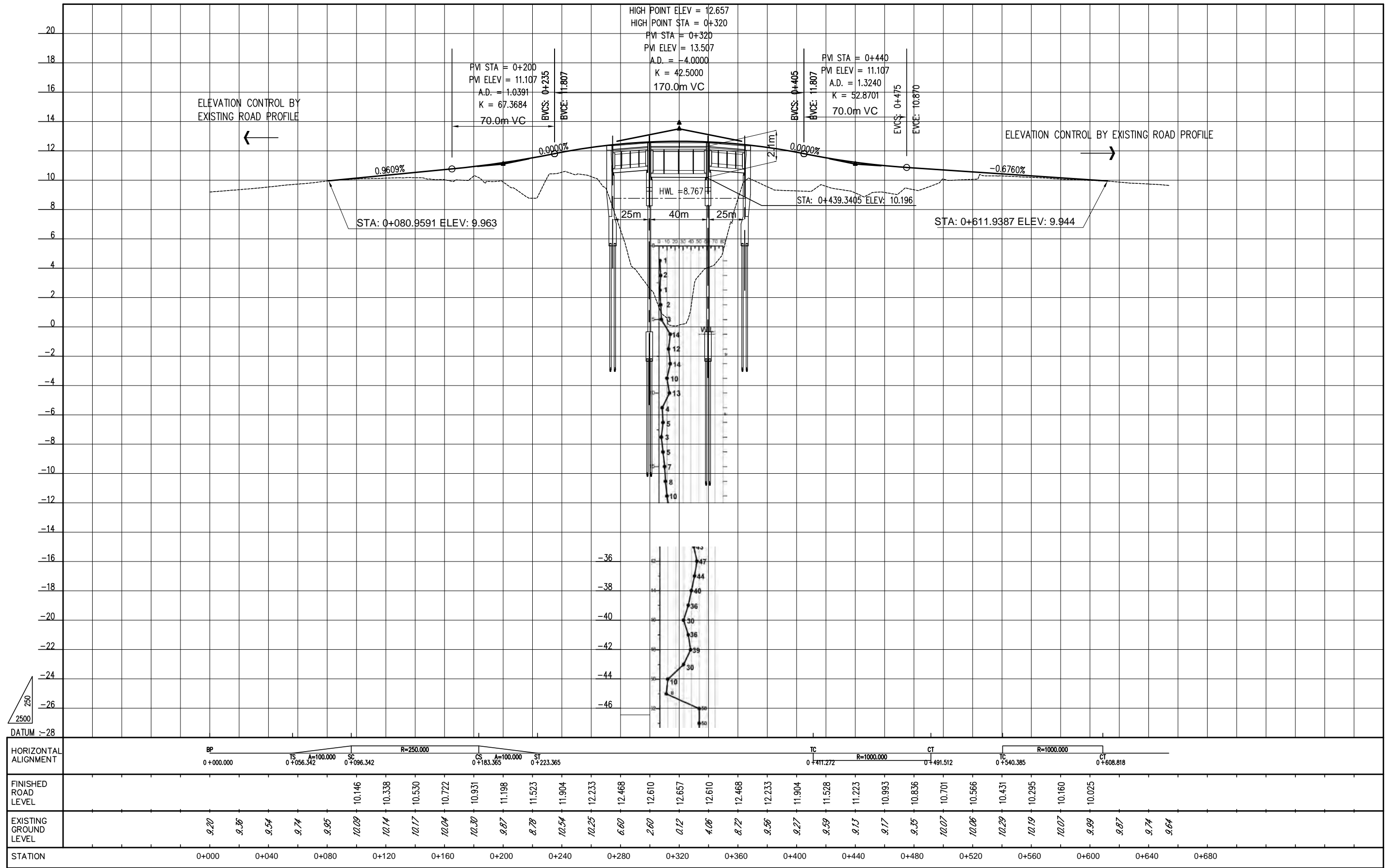
BP		IP-1		IP-2		EP	
X	455423.9509	V (Kph) 65		50		V (Kph)	X 455782.7140
Y	692673.5952	TYPE SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		TYPE	Y 692109.0302
STA	0+000	86°45'38.19"		90°25'14.08"		△	STA 0+825.9876
R (m)		160.0000		100.0000		R (m)	
A		69.2820 69.2820		54.7723 54.7723		A	
TS / TC (m)		166.4173 166.4173		116.1030 116.1030		TS / TC (m)	
LC (m)		212.2813		127.8137		LC (m)	
LS (m)		30.0000 30.0000		30.0000 30.0000		LS (m)	
L (m)		272.2810		187.8140		L (m)	
e max (%)						e max (%)	
PI		E 455408.0675		455819.7133		E PI	
		N 692439.7855		692388.3248		N	
TS/SS		E 455419.3467		455704.5071		E TS/SS	
		N 692605.8202		692402.7270		N	
		STA 0+067.9312		0+472.5422		STA	
SC/TC /CC		E 455418.2500		455734.0227		E SC/TC /CC	
		N 692575.8520		692397.5279		N	
		STA 0+097.9312		0+502.5422		STA	
CS/CT /CC		E 455543.5736		455806.9122		E CS/CT /CC	
		N 692423.7898		692303.0974		N	
		STA 0+310.2125		0+630.3559		STA	
ST/SS		E 455573.1995		455804.4659		E ST/SS	
		N 692419.1420		692273.2274		N	
		STA 0+340.2125		0+660.3559		STA	
183°53'10.70"		AZIMUTH		97°07'32.51"		187°32'46.59"	
						AZIMUTH	



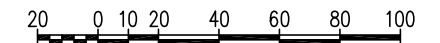
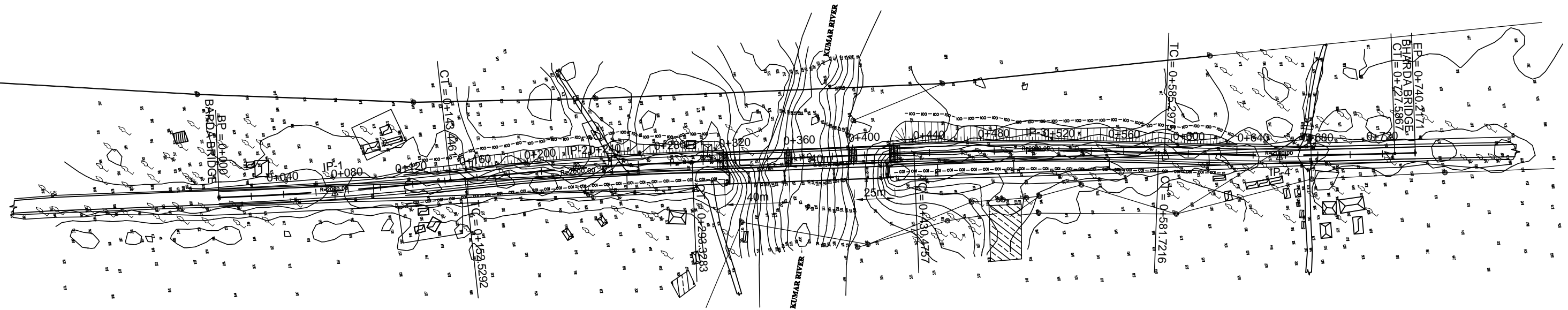


BP		IP-1			IP-2		IP-3		EP	
X	460021.3866	v (Kph)	65	80	80	v (Kph)	X	460651.9782		
Y	601772.3383	TYPE	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	FULL CIRCLE	TYPE	Y	601900.0769		
STA	0+000	$\Delta$	29°06'41.83"	4°35'50.72"	3°55'15.46"	$\Delta$	STA	0+653.7104		
		R (m)	250.0000	1000.0000	1000.0000	R (m)				
		A	100.0000	100.0000		A				
		TS / TC (m)	84.9792	84.9792	40.1416	34.2302	TS / TC (m)			
		LC (m)	87.0234		80.2401	68.4337	LC (m)			
		LS (m)	40.0000	40.0000			LS (m)			
		L (m)	167.0230	80.2401	68.4337	L (m)				
		e max (%)				e max (%)				
		PI	E 460139.2876	460451.4140	460573.1600	E	PI			
			N 601850.2548	601873.9847	601893.1478	N				
		TS	E 460068.3913			E	TS			
			N 601803.4020			N				
		STA	0+056.3417			STA				
		SC/TC /SS/CC	E 460102.3289	460411.3879	460539.3461	E	SC/TC /CC/SS			
			N 601824.5521	601870.9417	601887.8254	N				
			STA 0+096.3417	0+411.2715	0+540.3847	STA				
		CS/CT /CC	E 460184.2437	601880.2263	601896.1455	E	CS/CT /CC			
			N 601852.6034	460491.0674	460607.2587	N				
			STA 0+183.3651	0+491.5116	0+608.8184	STA				
		ST	E 460224.0223			E	ST			
			N 601856.6969			N				
			STA 0+223.3651			STA				
		56°32'26.64"	AZIMUTH	85°39'08.46"	81°03'17.74"	84°58'33.20"	AZIMUTH			

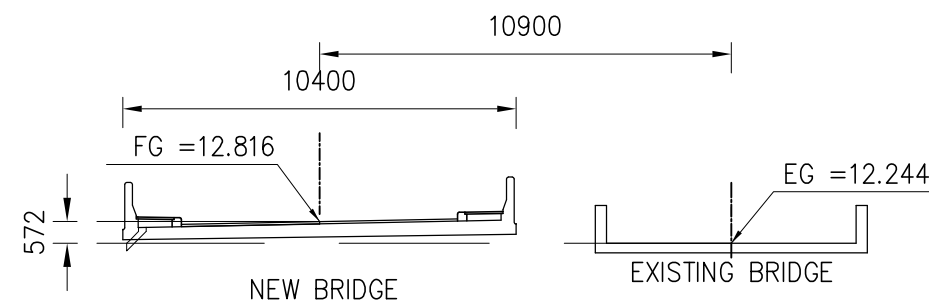


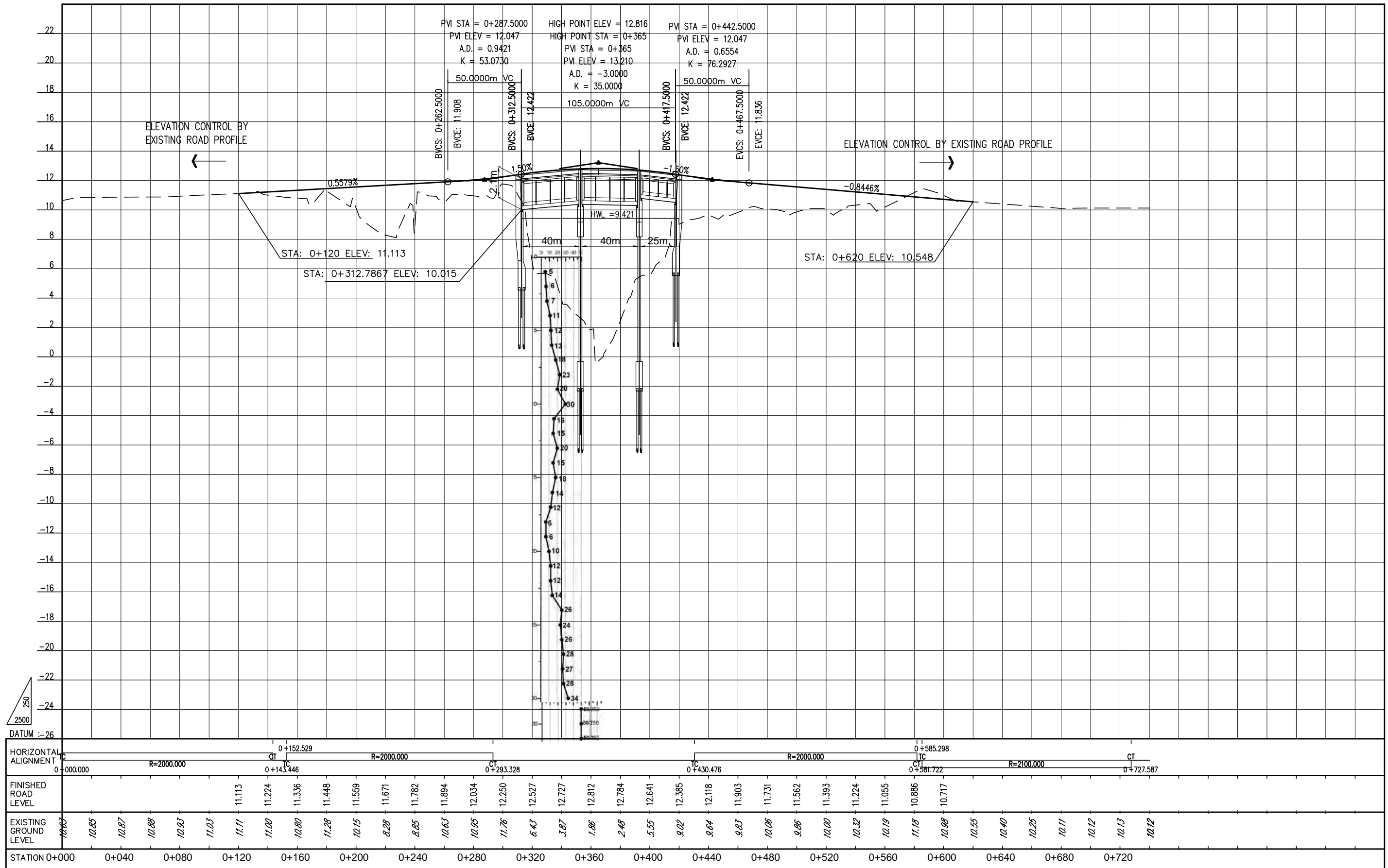


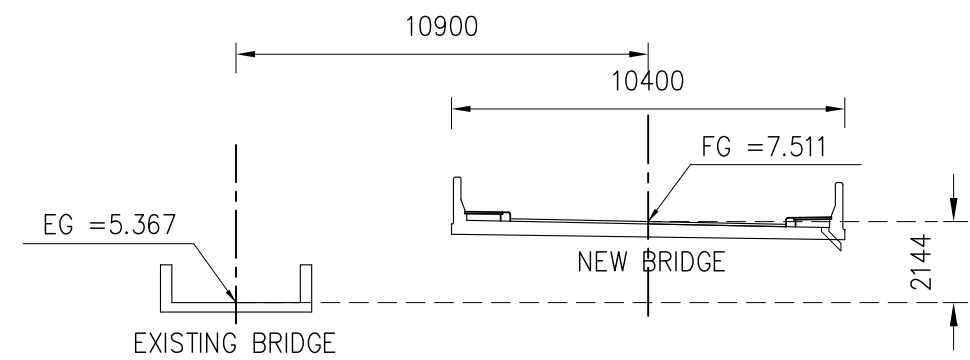
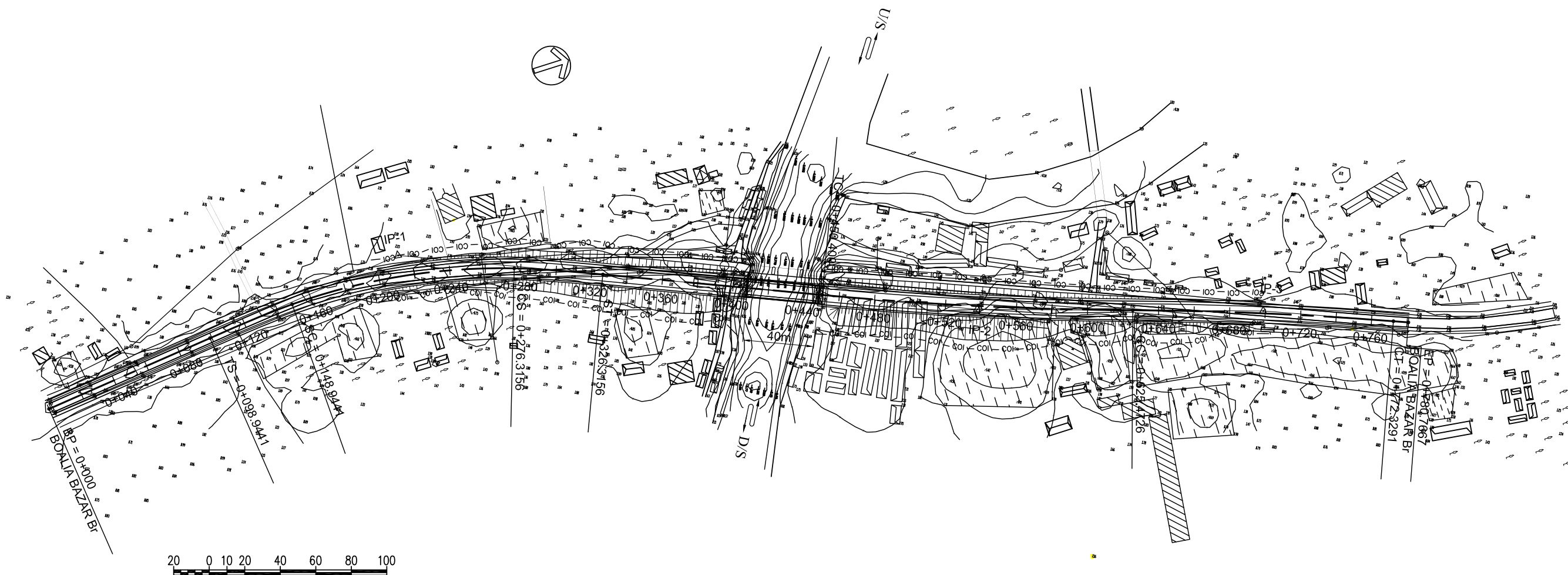
HORIZONTAL ALIGNMENT	BP 0+000.000	TS 0+056.342	SC 0+096.342	R=250.000	CS 0+183.365	ST 0+223.365	TC 0+411.272	CT 0+491.512	R=1000.000	TC 0+540.385	CT 0+608.818																								
FINISHED ROAD LEVEL			10.146	10.338	10.530	10.722	10.931	11.198	11.523	11.904	12.233	12.468	12.610	12.657	12.610	12.468	12.233	11.904	11.528	11.223	10.993	10.836	10.701	10.566	10.431	10.295	10.160	10.025							
EXISTING GROUND LEVEL	9.20	9.36	9.54	9.74	9.95	10.09	10.14	10.17	10.04	10.30	9.87	8.78	11.523	11.904	10.25	6.60	2.60	0.12	4.06	8.72	9.56	9.27	9.59	9.13	9.17	9.35	10.07	10.06	10.29	10.19	10.07	9.99	9.87	9.74	9.64
STATION	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+320	0+360	0+400	0+440	0+480	0+520	0+560	0+600	0+640	0+680																	



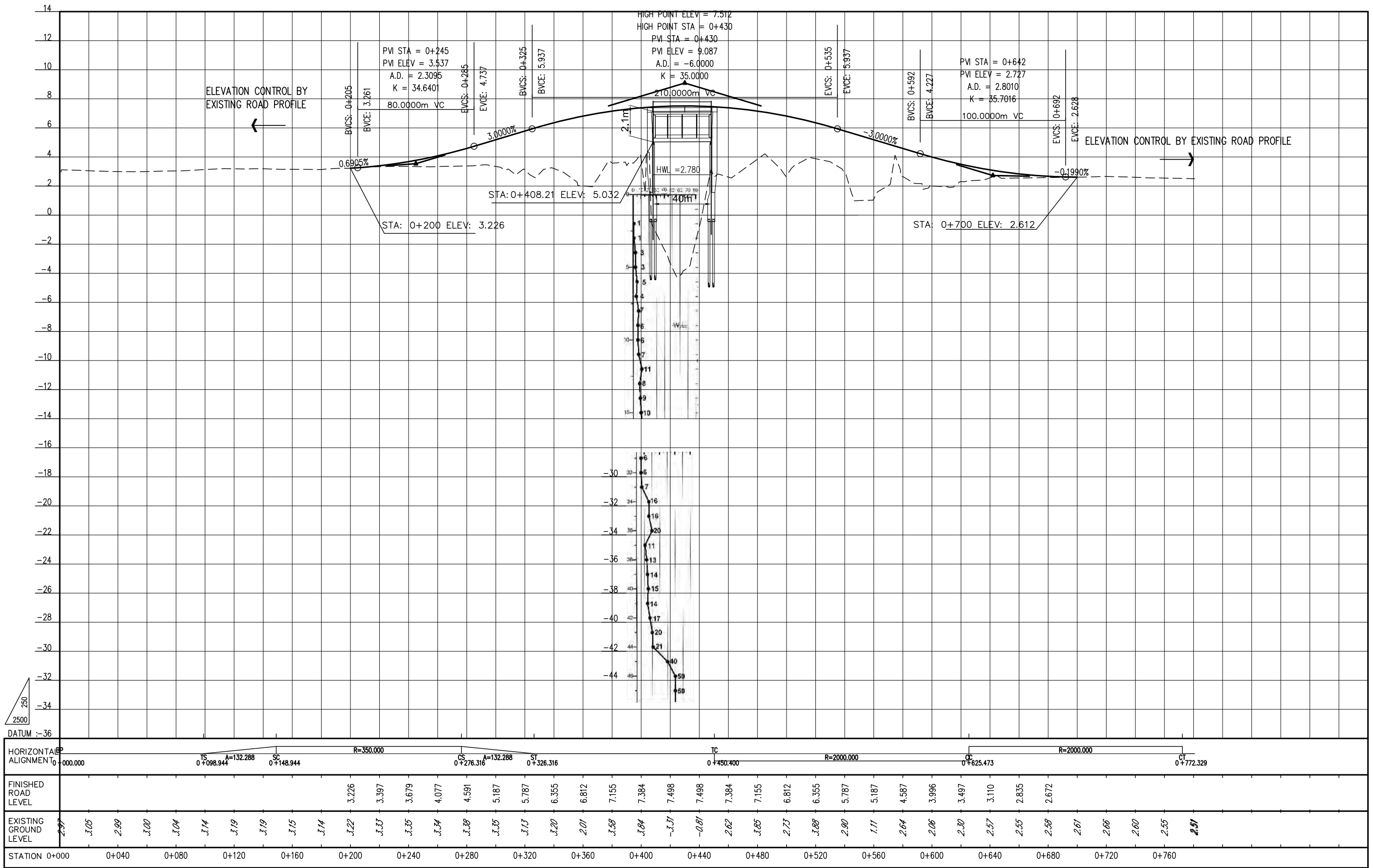
BP			IP-1	IP-2	IP-3	IP-4		EP	
X	417516.6490	V (Kph)	80	80	80	80	V (Kph)	X	417990.9963
Y	617571.9912	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE	Y	617004.4631
STA	0+000	$\Delta$	4'06'33.94"	4'02'00.95"	4'19'58.35"	3'52'55.83"	$\Delta$	STA	0+740.2171
		R (m)	2000.0000	2000.0000	2000.0000	2100.0000	R (m)		
		A					A		
		TS / TC (m)	71.7538	70.4287	75.6590	71.1718	TS / TC (m)		
		LC (m)	143.4461	140.7991	151.2459	142.2891	LC (m)		
		LS (m)					LS (m)		
		L (m)	143.4461	140.7991	151.2459	142.2891	L (m)		
		e max (%)					e max (%)		
		PI					PI		
		E	417562.7023	417667.8511	417849.9252	417937.6317	E		
		N	617516.9666	617408.2238	617191.2651	617069.0776	N		
		TS					TS		
		N					N		
		STA					STA		
		SC/TC /SS/CC					SC/TC /CC/SS		
		E	417516.6490	417618.8942	417801.2888	417896.1294	E		
		N	617571.9912	617458.8540	617249.2200	617126.8962	N		
		STA	0+000	0+152.5292	0+430.4757	0+585.2975	STA		
		CS/CT /CC					CS/CT /CC		
		E	617465.3838	617354.2753	617129.8012	617014.2016	E		
		N	417612.5803	417713.1253	417894.0441	417982.9533	N		
		STA	0+143.4461	0+293.3283	0+581.7216	0+727.5867	STA		
		ST					ST		
		N					N		
		STA					STA		
140°04'19.51"	AZIMUTH		135°57'45.57"	139°59'46.53"	144°19'44.87"	140°26'49.05"		AZIMUTH	

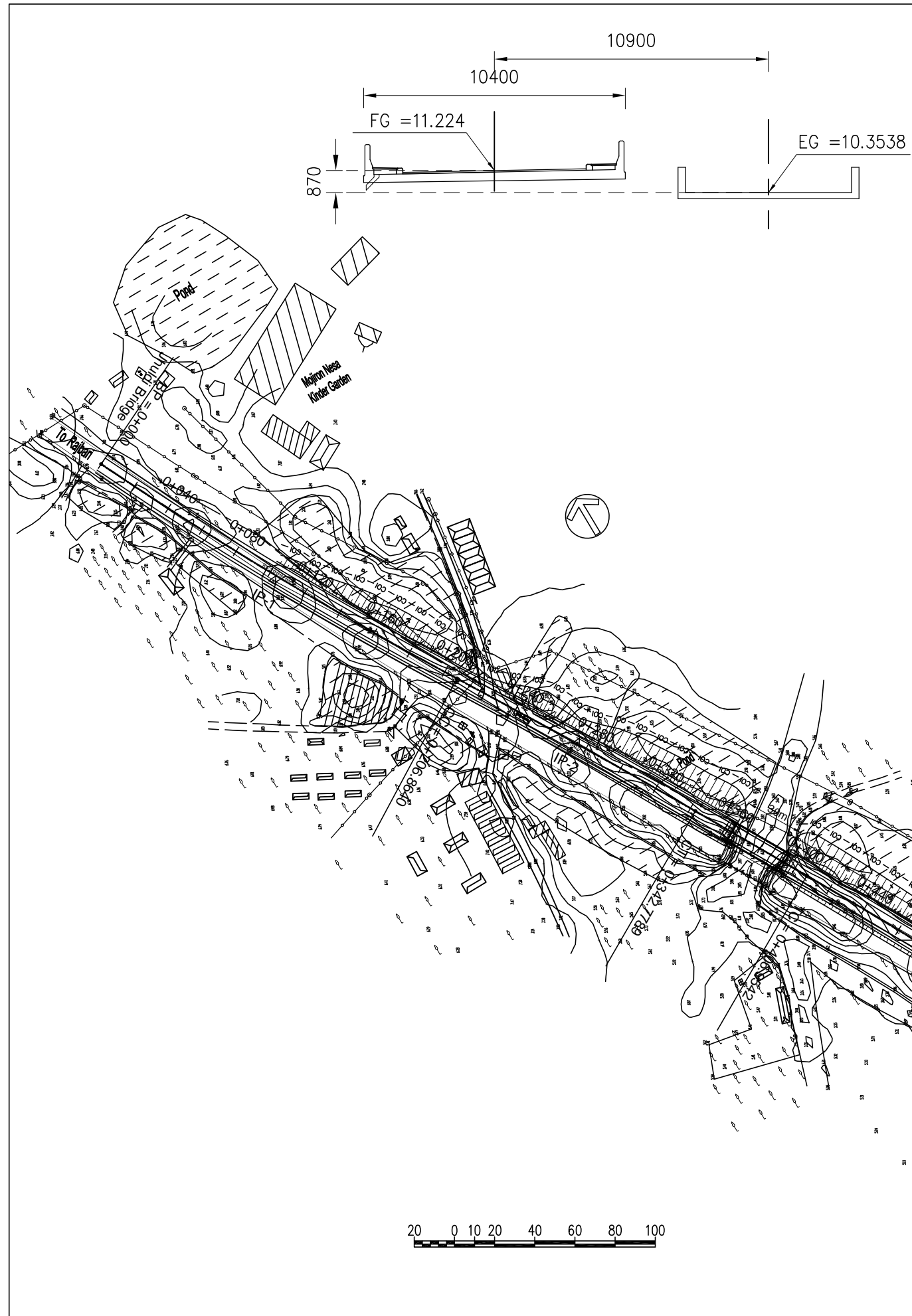




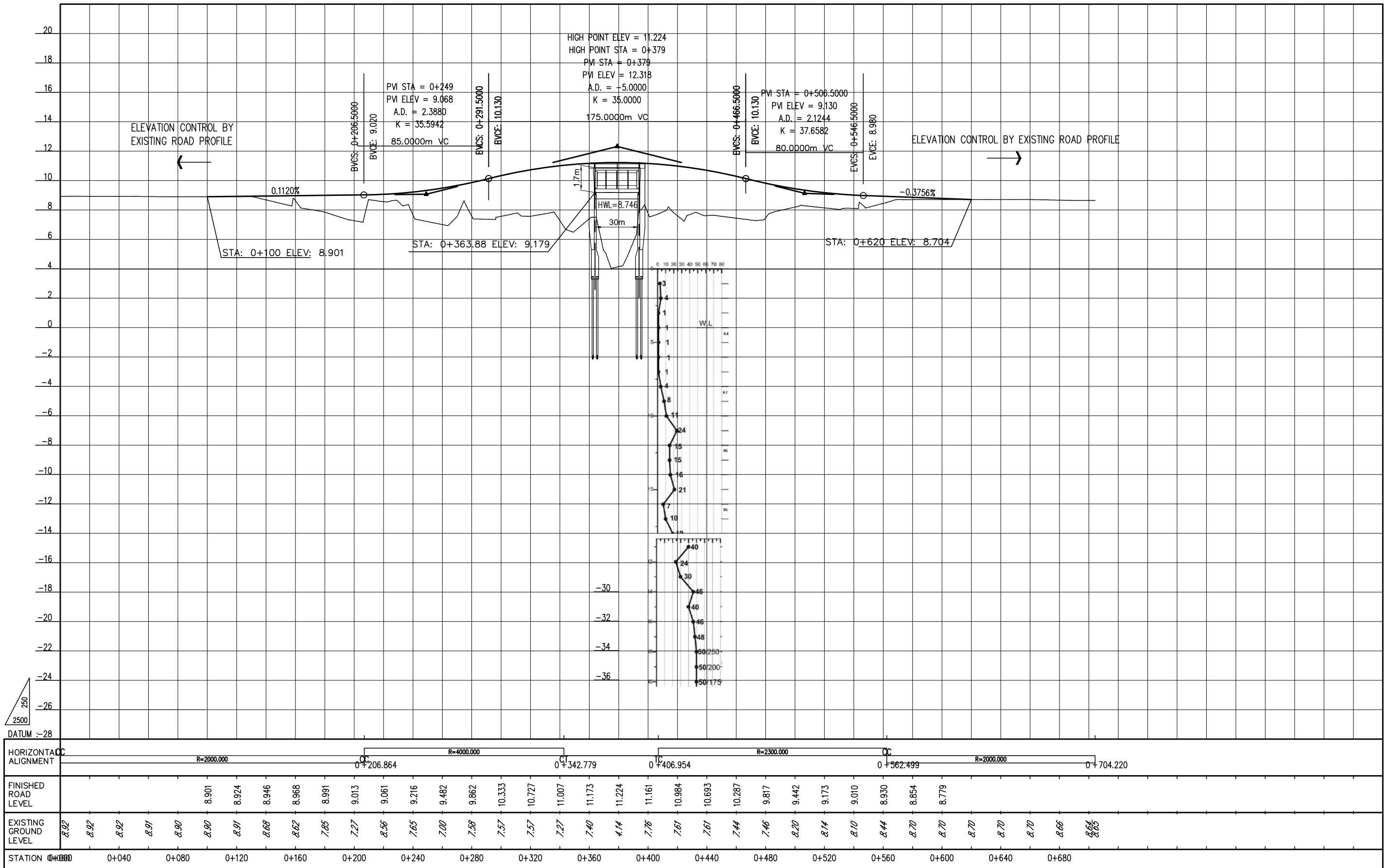


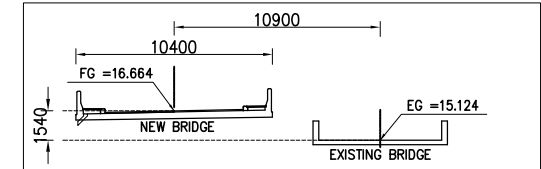
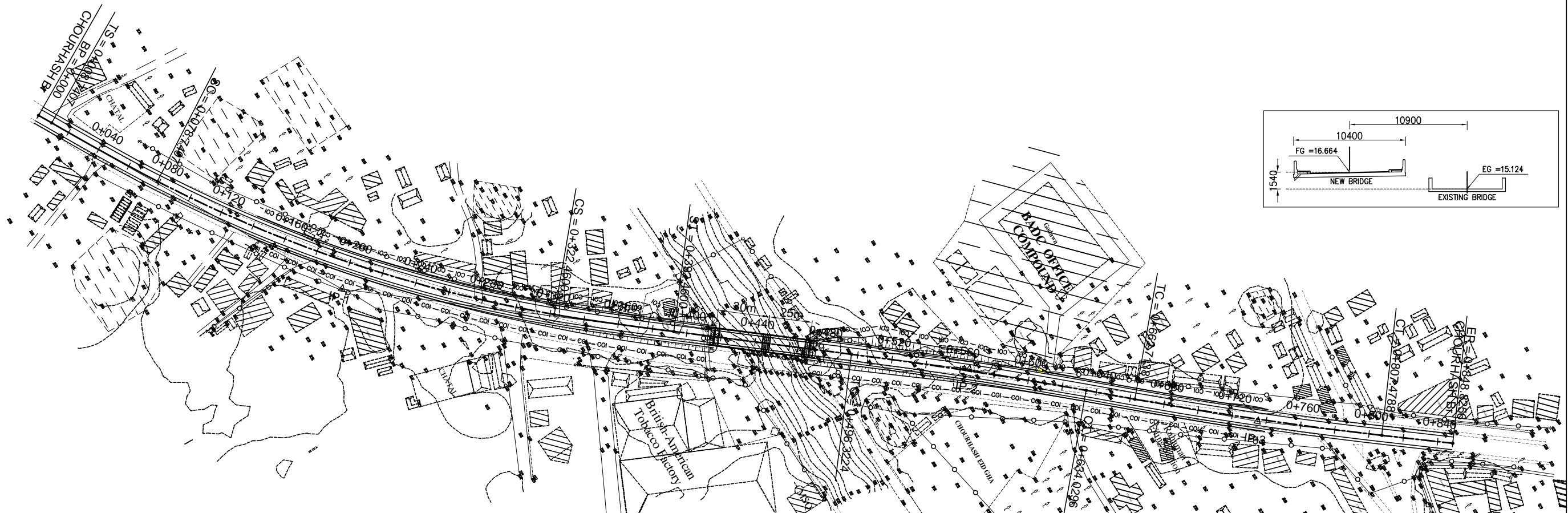
X	534928.7472	V (Kph)	65	80	80	V (Kph)		X	535112.4570
Y	495800.0000	TYPE	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	FULL CIRCLE	TYPE		Y	496544.4061
STA	0+000	$\Delta$	29°02'09.99"	5°00'55.66"	4°12'25.66"	$\Delta$		STA	0+780.7667
		R (m)	350.0000	2000.0000	2000.0000	R (m)			
		A	132.2876   132.2876			A			
		TS / TC (m)	115.7066   115.7066	87.5922	73.4612	TS / TC (m)			
		LC (m)	127.3715	175.0726	146.8564	LC (m)			
		LS (m)	50.0000   50.0000			LS (m)			
		L (m)	227.3720	175.0726	146.8564	L (m)			
		e max (%)				e max (%)			
		PI	E 534905.5164 N 496013.3900	535032.5040 496315.1415	535081.7576 496468.4787	E N	PI		
		TS/SS	E 534918.0389 N 495898.3630 STA 0+098.9441			E N STA	TS/SS		
		SC/TC /CC	E 534913.8134 N 495948.1727 STA 0+148.9441	534998.5282 496234.4071 0+450.4000	535059.2916 496398.5371 0+625.4726	E N STA	SC/TC /CC		
		CS/CT /CC	E 534932.1099 N 496073.5142 STA 0+276.3156	496398.5371 535059.2916 0+625.4726	496536.5837 535109.2942 0+772.3291	E N STA	CS/CT /CC		
		ST/SS	E 534950.3975 N 496120.0376 STA 0+326.3156			E N STA	ST/SS		
		AZIMUTH	22°49'23.02"	17°48'27.36"	22°00'53.02"		AZIMUTH		



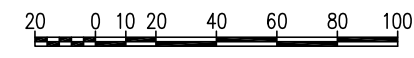


BP		IP-1	IP-2	IP-3	IP-4	EP				
X	477440.0250	V (Kph)	80	80	80	80	V (Kph)	X	477772.3274	
Y	610882.1105	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE	Y	610261.5454	
STA	0+000	$\Delta$	5'55'34.38"	1'56'48.61"	3'52'29.35"	4'03'35.96"	$\Delta$	STA	0+704.2198	
		R (m)	2000.0000	4000.0000	2300.0000	2000.0000	R (m)			
		A					A			
		TS / TC (m)	103.5243	67.9640	77.8023	70.8898	TS / TC (m)			
		LC (m)	206.8640	135.9149	155.5452	141.7203	LC (m)			
		LS (m)					LS (m)			
		L (m)	206.8640	135.9149	155.5452	141.7203	L (m)			
		e max (%)					e max (%)			
		PI					E	PI		
			E	477483.9380	477572.3250	477674.3570	477737.6748	N		
			N	610788.3611	610641.4055	610457.9254	610323.3885			
		TS					E	TS		
			E					N		
			N							
			STA					STA		
		SC/TC /SS/CC					E	SC/TC /CC/SS		
			E	477440.0250	477537.2956	477636.5449	477707.4877	N		
			N	610882.1105	610699.6467	610525.9213	610387.5298			
			STA	0+000	0+206.8640	0+406.9542	0+562.4994	STA		
		CS/CT /CC					E	CS/CT /CC		
			E	610699.6467	610582.0078	610387.5298	610261.5454	N		
			N	477537.2956	477605.3556	477707.4877	477772.3274			
			STA	0+206.8640	0+342.7789	0+562.4994	0+704.2198	STA		
		ST					E	ST		
			E					N		
			N							
			STA					STA		
		154°54'04.49"	AZIMUTH	148°58'30.11"	150°55'18.72"	154°47'48.07"	150°44'12.11"	AZIMUTH		





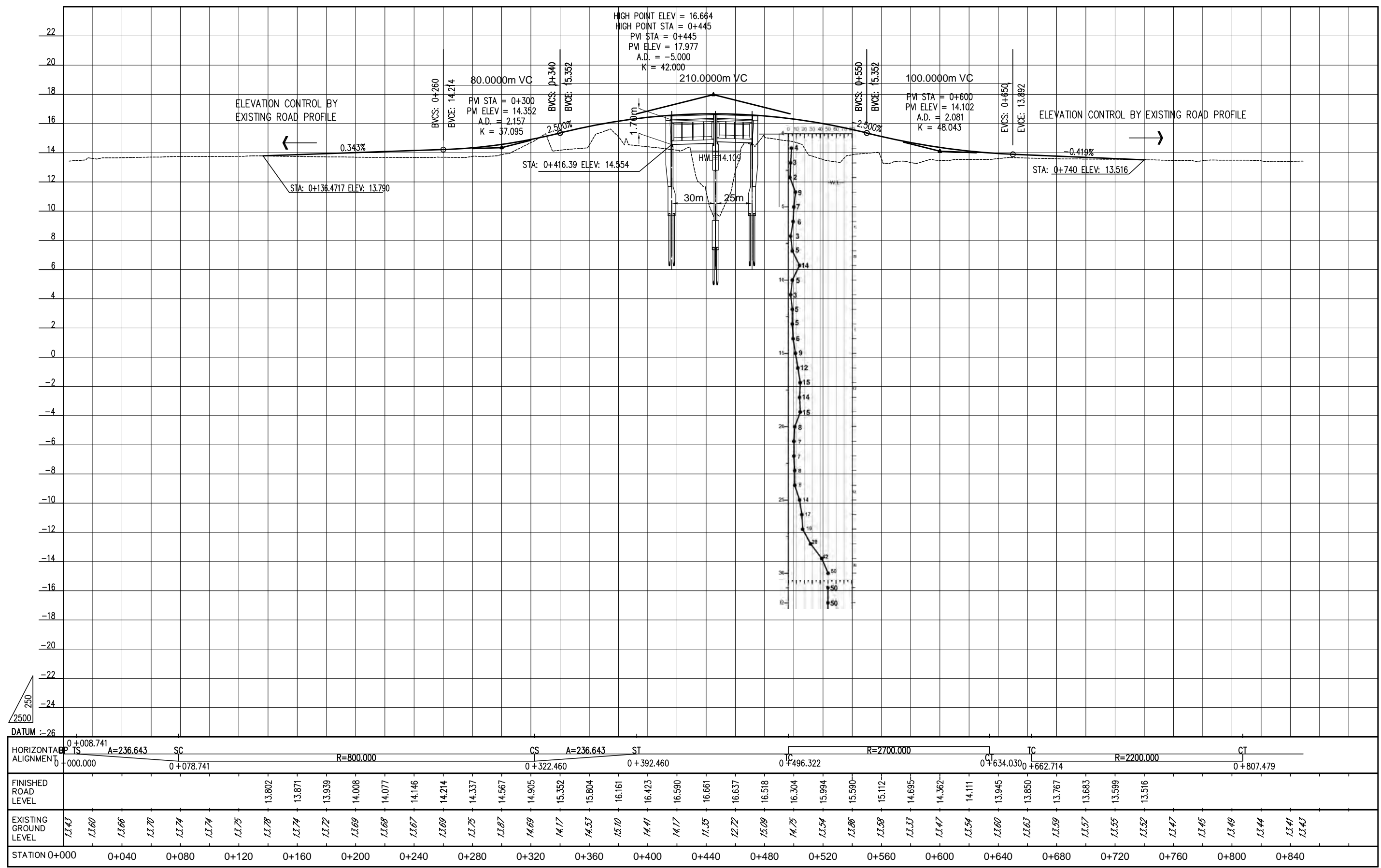
BP		IP-1		IP-2		IP-3		EP	
X	409137.698	80		80		80		X	409712.634
Y	641542.026	TYPE		TYPE		TYPE		Y	642156.788
STA	0+000	22°28'06.55"		2°55'20.06"		3°46'12.69"		STA	0+848.825
		R (m)		R (m)		R (m)			
		A		A		A			
		TS / TC (m)		TS / TC (m)		TS / TC (m)			
		LC (m)		LC (m)		LC (m)			
		LS (m)		LS (m)		LS (m)			
		L (m)		L (m)		L (m)			
		e max (%)		e max (%)		e max (%)			
		PI		PI		PI			
		E		E		E			
		N		N		N			
		STA		STA		STA			
		TS/SS		TS/SS		TS/SS			
		E		E		E			
		N		N		N			
		STA		STA		STA			
		SC/TC /CC		SC/TC /CC		SC/TC /CC			
		E		E		E			
		N		N		N			
		STA		STA		STA			
		CS/CT /CC		CS/CT /CC		CS/CT /CC			
		E		E		E			
		N		N		N			
		STA		STA		STA			
		ST/SS		ST/SS		ST/SS			
		E		E		E			
		N		N		N			
		STA		STA		STA			
59°47'36.04"		AZIMUTH		37°19'29.48"		40°14'49.54"		36°28'36.85"	

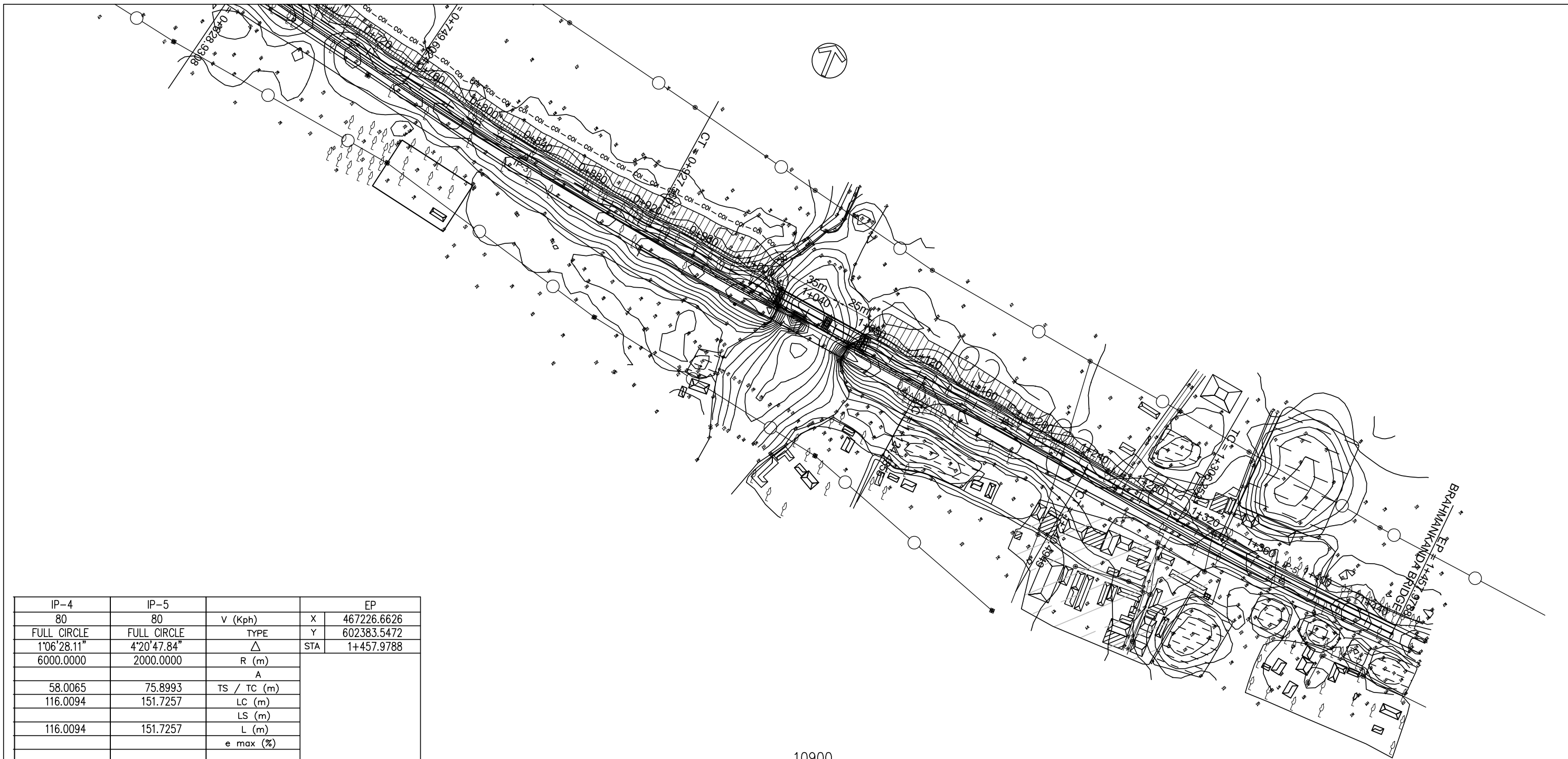


No	REVISION	DATE

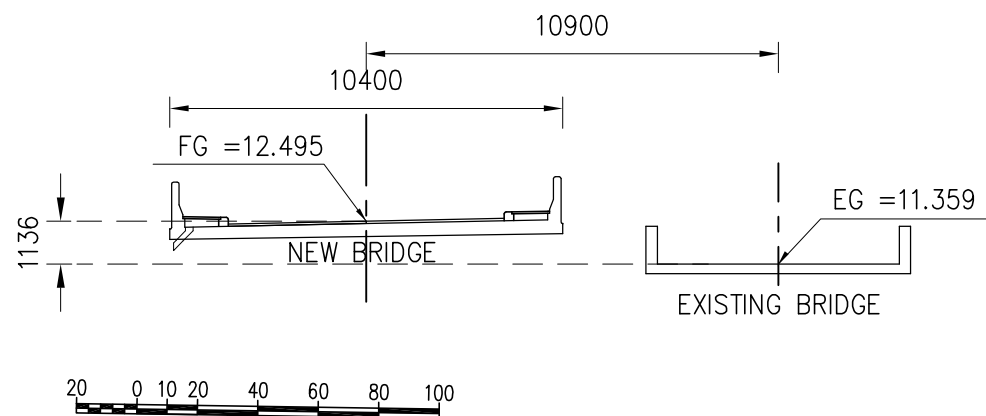
DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	BR 032-1

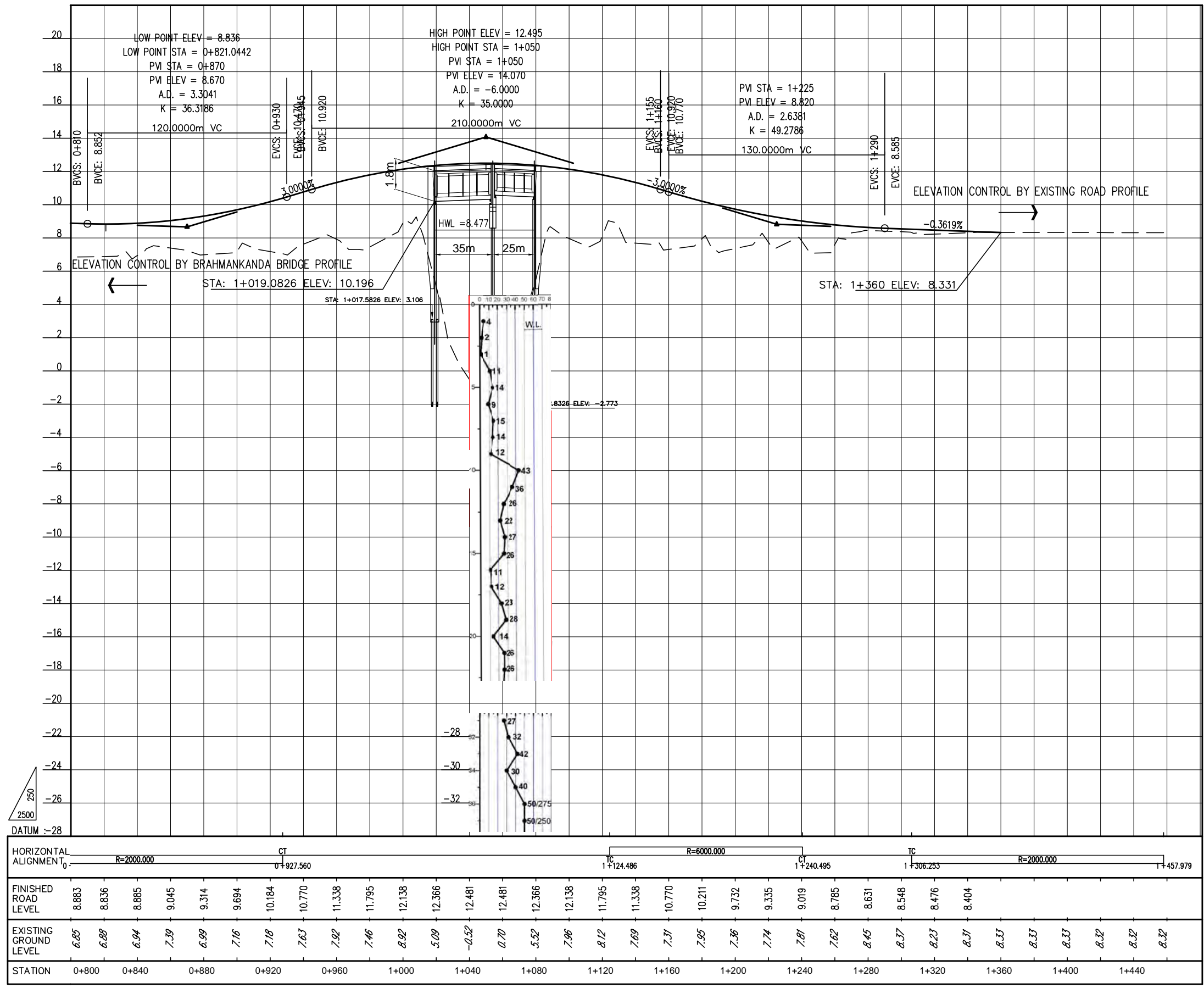


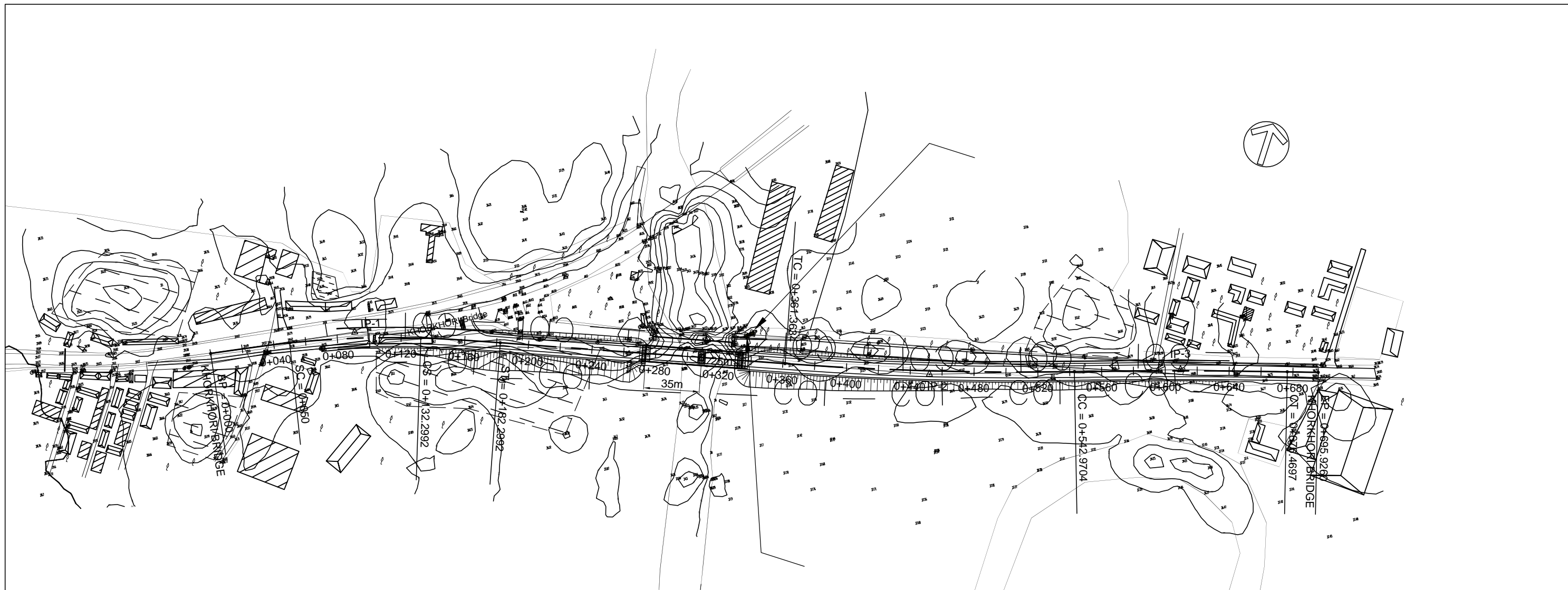




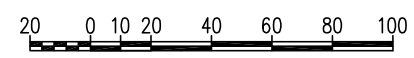
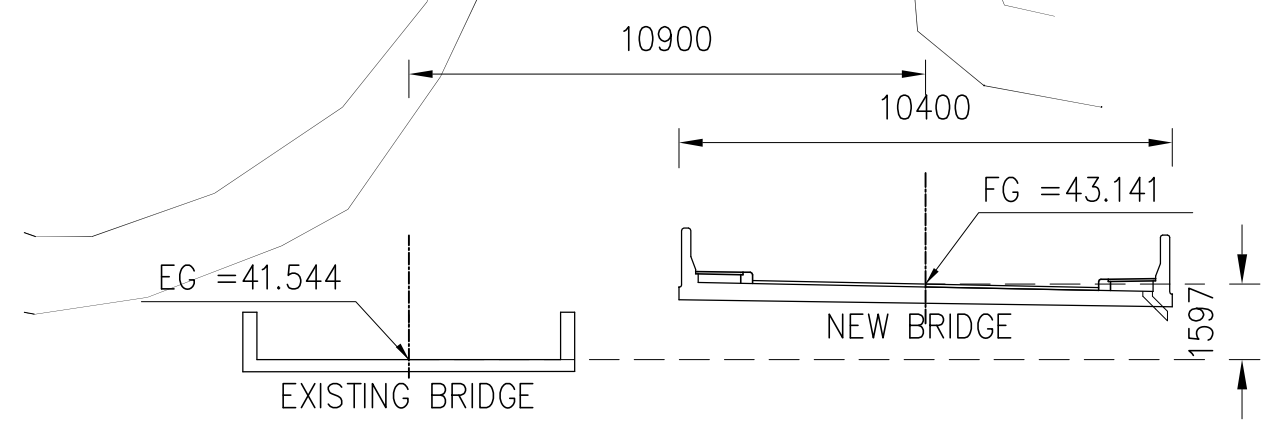
IP-4	IP-5	V (Kph)	X	EP
80	80		467226.6626	
FULL CIRCLE	FULL CIRCLE	TYPE	Y	602383.5472
1'06'28.11"	4'20'47.84"	△	STA	1+457.9788
6000.0000	2000.0000	R (m)		
		A		
58.0065	75.8993	TS / TC (m)		
116.0094	151.7257	LC (m)		
		LS (m)		
116.0094	151.7257	L (m)		
		e max (%)		
466953.0668	467150.8986	E	PI	
602415.0632	602388.0766	N		
		E	TS	
		N		
		STA		
466895.4517	467075.6958	E	SC/TC	
602421.7907	602398.3352	N	/CC/SS	
1+124.4855	1+306.2531	STA		
602407.2230	602383.5472	E	CS/CT	
467010.5411	467226.6626	N	/CC	
1+240.4949	1+457.9788	STA		
		E	ST	
		N		
		STA		
97°46'04.31"	93°25'16.47"	AZIMUTH		

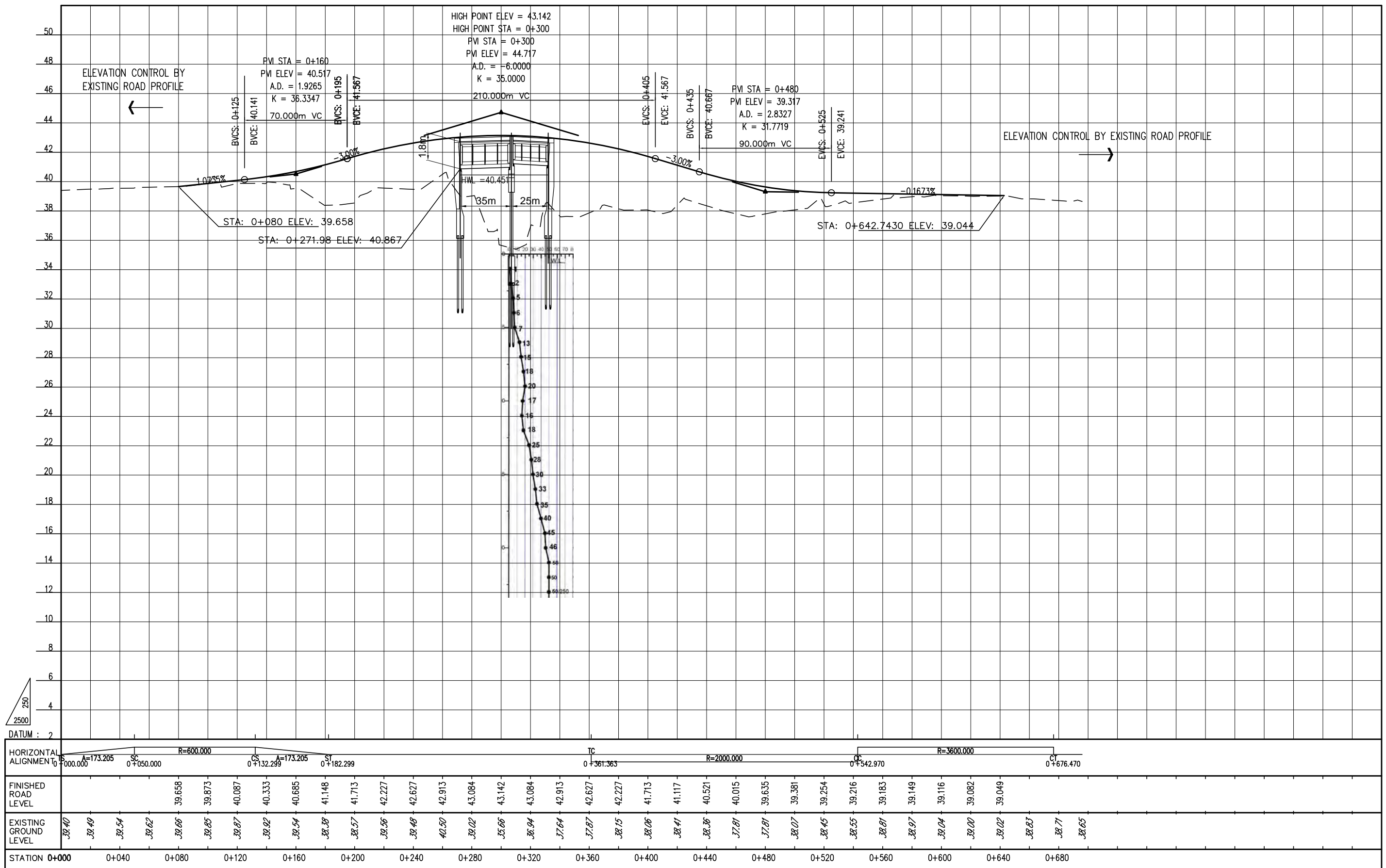


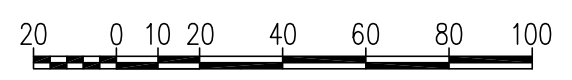
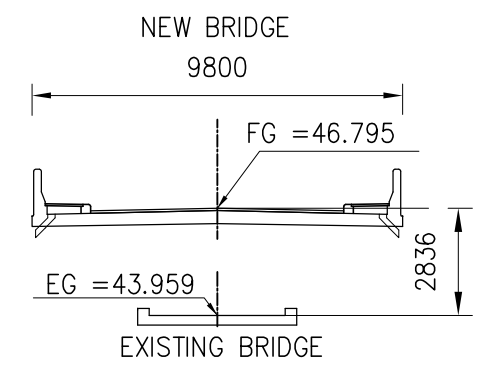
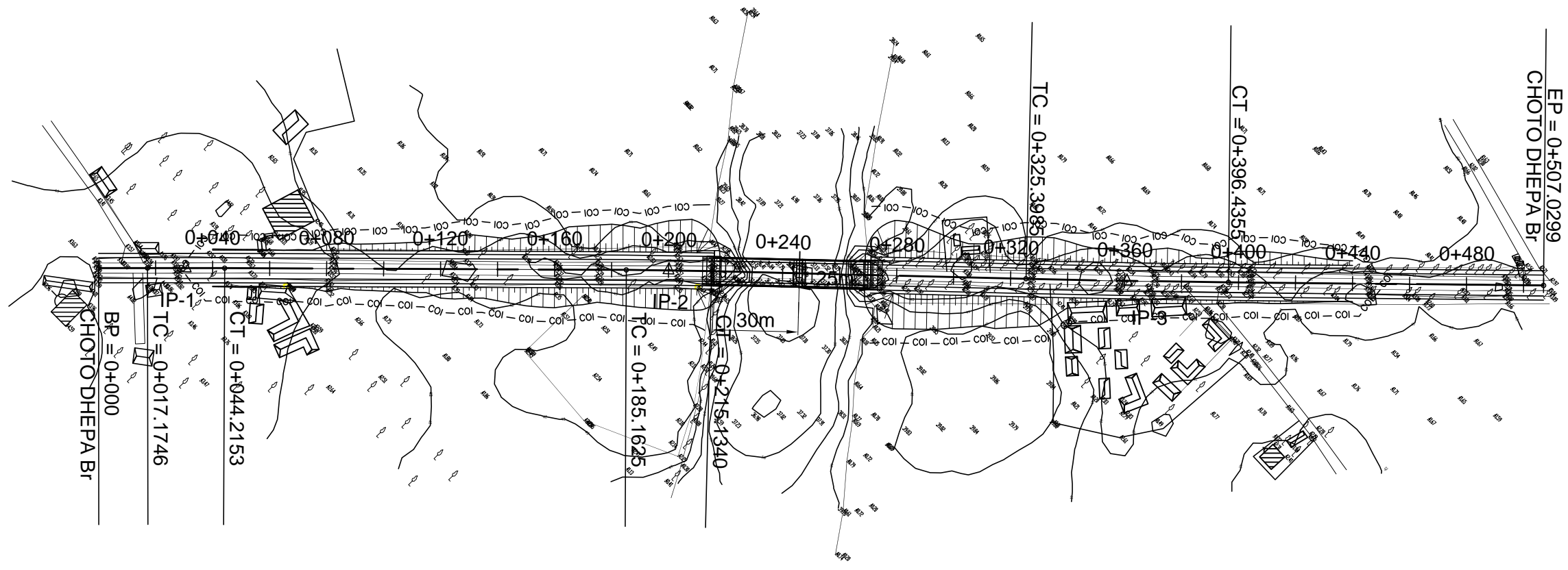




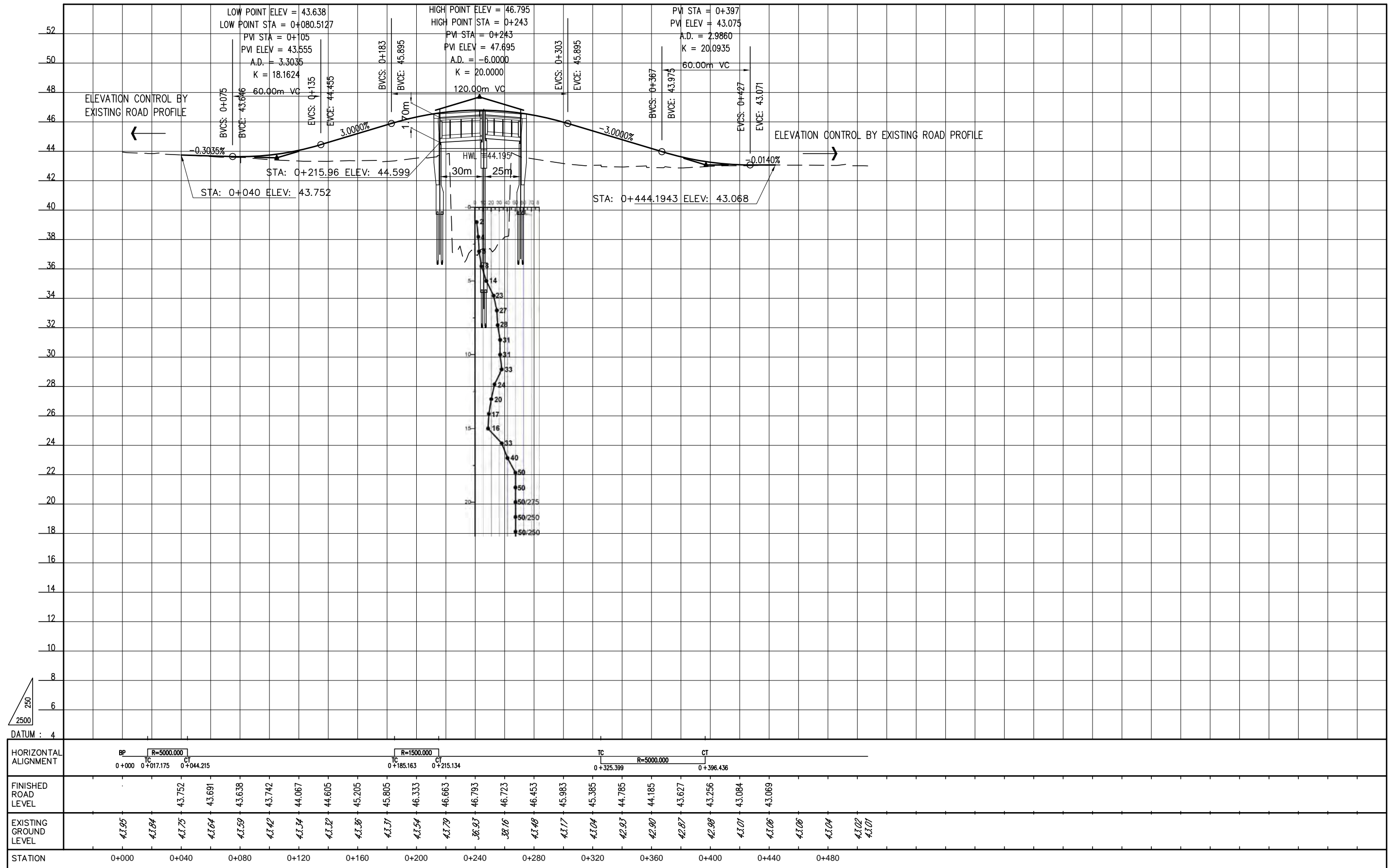
BP		IP-1		IP-2		IP-3		EP	
X	387441.907	V (Kph)	80	80	80	V (Kph)		X	388107.299
Y	850686.034	TYPE	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	FULL CIRCLE	TYPE		Y	850885.840
STA	0+000	$\Delta$	12°38'01.11"	5°12'09.57"	2°07'28.95"	$\Delta$		STA	0+695.926
		R (m)	600.000	2000.000	3600.000	R (m)			
		A	173.205	173.205		A			
		TS / TC (m)	91.437	91.437	90.866	66.757	TS / TC (m)		
		LC (m)	82.299	181.607	133.499	LC (m)			
		LS (m)	50.000	50.000		LS (m)			
		L (m)	182.299	181.607	133.499	L (m)			
		e max (%)				e max (%)			
		PI	E 387523.994	387875.373	388024.670	E 388024.670	PI	E 388107.299	
			N 850726.312	850810.688	850861.238	N 850861.238		N 850885.840	
		TS	E 387441.907			E 387441.907	TS	E 388107.299	
			N 850686.034			N 850686.034		N 850885.840	
			STA 0+000			STA 0+000		STA 0+695.926	
		SC/TC /SS/CC	E 387487.093	387787.018	387961.439	E 387961.439	SC/TC /CC/SS	E 388107.299	
			N 850707.432	850789.472	850839.829	N 850839.829		N 850885.840	
			STA 0+050	0+361.363	0+542.970	STA 0+542.970		STA 0+695.926	
		CS/CT /CC	E 387564.456	850839.829	850880.288	E 850880.288	CS/CT /CC	E 388107.299	
			N 850735.314	387961.439	388088.652	N 388088.652		N 850885.840	
			STA 0+132.299	0+542.970	0+676.469	STA 0+676.469		STA 0+695.926	
		ST	E 387612.904			E 387612.904	ST	E 388107.299	
			N 850747.662			N 850747.662		N 850885.840	
			STA 0+182.299			STA 0+182.299		STA 0+695.926	
	63°51'49.44"	AZIMUTH	76°29'50.54"	71°17'40.97"	73°25'09.92"		AZIMUTH		

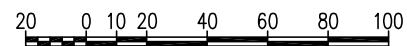
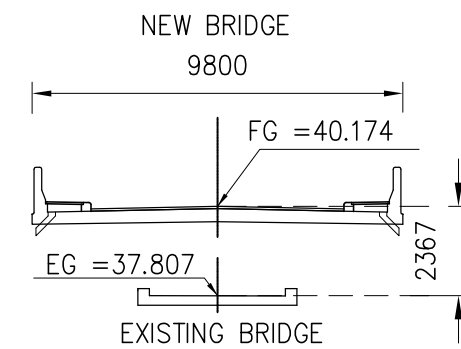






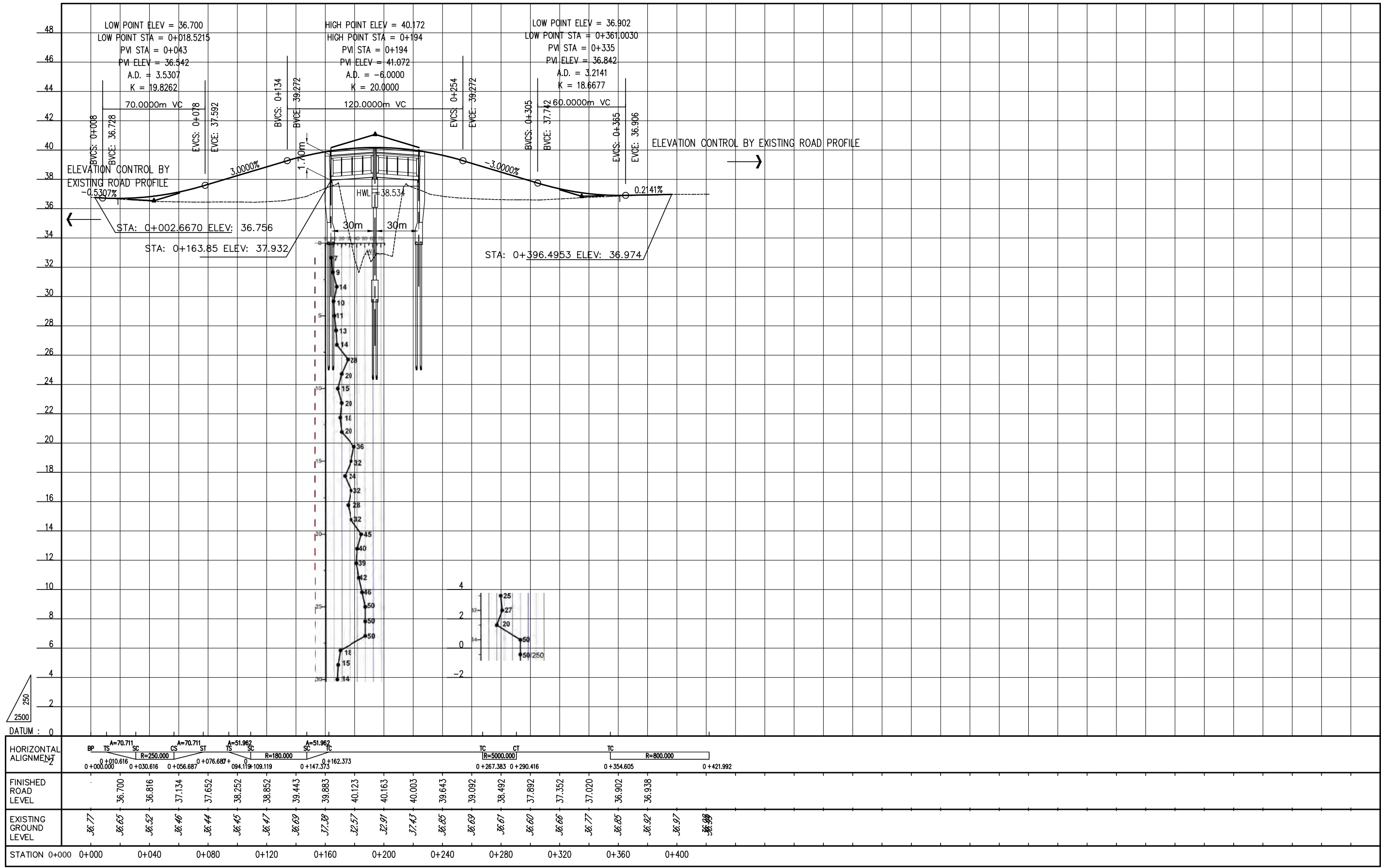
BP		IP-1	IP-2	IP-3	EP			
X	366143.0573	V (Kph)	50	50	50	V (Kph)	X	366505.5894
Y	861331.7257	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE	Y	861686.1714
STA	0+000	$\Delta$	0'18'35.51"	1'08'41.38"	0'48'50.49"	$\Delta$	STA	0+507.0299
		R (m)	5000.0000	1500.0000	5000.0000	R (m)		
		A				A		
		TS / TC (m)	13.5204	14.9863	35.5191	TS / TC (m)		
		LC (m)	27.0407	29.9715	71.0370	LC (m)		
		LS (m)				LS (m)		
		L (m)	27.0407	29.9715	71.0370	L (m)		
		e max (%)				e max (%)		
		PI	E 366164.7228 N 861353.4694	E 366284.9761 N 861472.8585	E 366401.3071 N 861583.8272	PI		
		TS/SS	E N STA			E N STA		
		SC/TC /CC	E 366155.1797 N 861343.8918 STA 0+017.1746	E 366274.3410 N 861462.2999 STA 0+185.1625	E 366375.6059 N 861559.3107 STA 0+325.3985	SC/TC /CC		
		CS/CT /CC	E 861362.9952 N 366174.3176 STA 0+044.2153	E 861483.2025 N 366295.8199 STA 0+215.1340	E 861608.7063 N 366426.6573 STA 0+396.4355	CS/CT /CC		
		ST/SS	E N STA			E N STA		
		AZIMUTH	44°53'48.29"	45°12'23.79"	46°21'05.17"	45°32'14.69"	AZIMUTH	



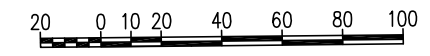
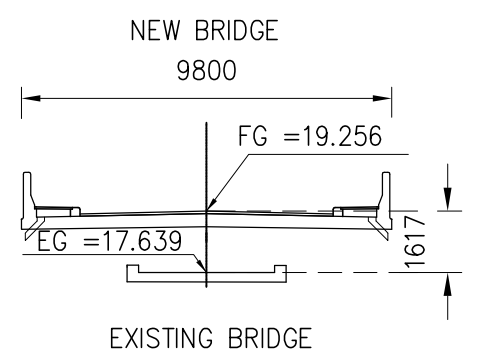
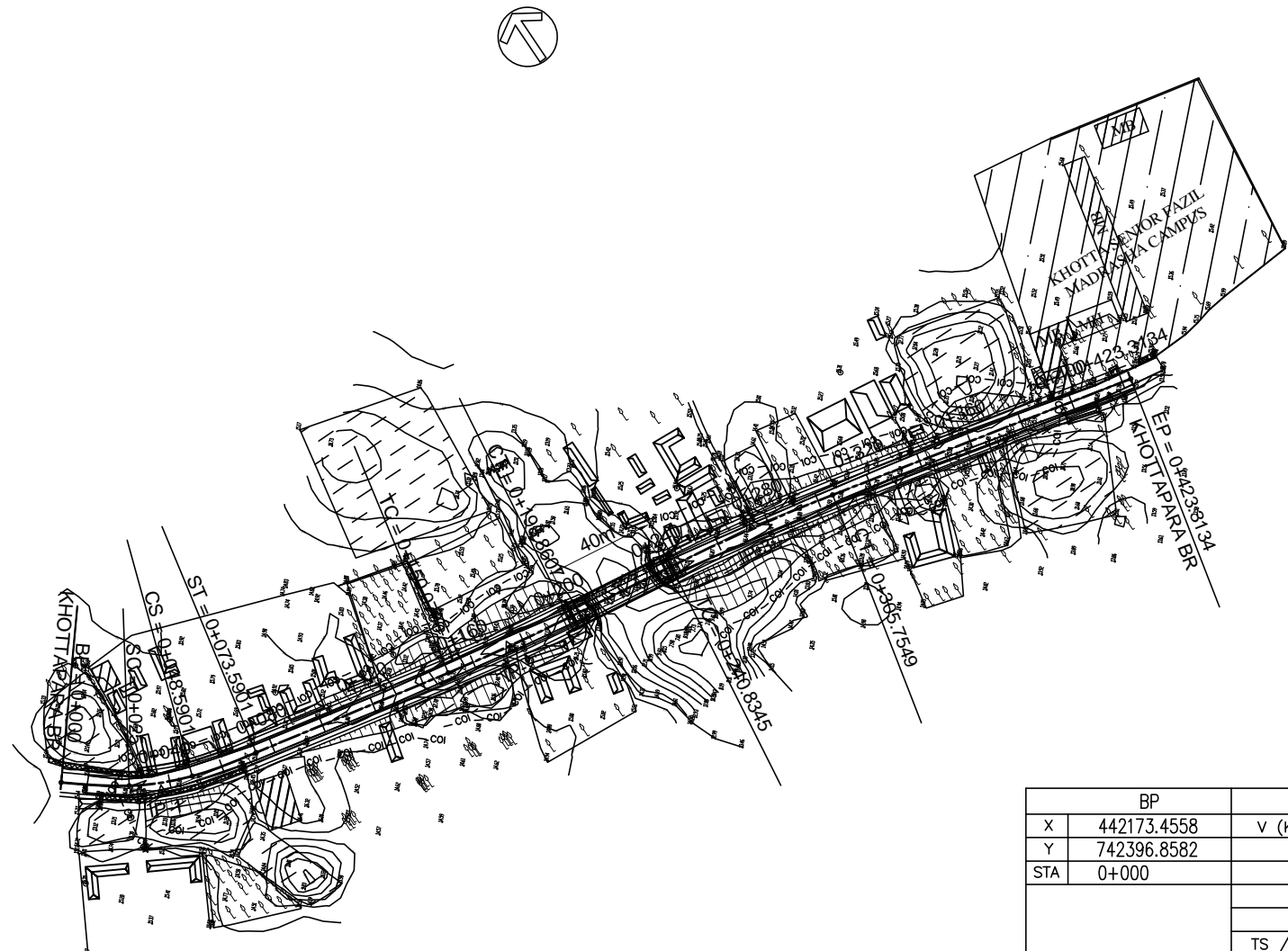


BP		IP-1		IP-2		IP-3		IP-4		EP	
X	383945.5155	v (Kph)		50		50		50		v (Kph)	
Y	838331.1549	TYPE		SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		FULL CIRCLE		FULL CIRCLE	
STA	0+000	Δ		10°33'30.96"		16°57'04.82"		0°15'50.18"		4°49'34.45"	
		R (m)		250.0000		180.0000		5000.0000		800.0000	
		A		70.7107   70.7107		51.9615   51.9615				A	
		TS / TC (m)		33.1063   33.1063		34.3304   34.3304		11.5165		33.7134	
		LC (m)		26.0706		38.2542		23.0330		67.3870	
		LS (m)		20.0000   20.0000		15.0000   15.0000				LS (m)	
		L (m)		66.0710		68.2540		23.0330		67.3870	
		e max (%)								e max (%)	
		PI		E 383984.5828 N 838311.5235		E 384066.1147 N 838287.9579		E 384216.9554 N 838290.1438		E 384326.3544 N 838292.2332	
		TS/SS		E 383955.0013 N 838326.3883		E 384033.1343 N 838297.4904				E TS/SS N	
		STA		0+010.6161		0+094.1192				STA	
		SC/TC /CC		E 383972.9888 N 838317.6479		E 384047.5998 N 838293.5262		E 384205.4401 N 838289.9769		E 384292.6471 N 838291.5895	
		STA		0+030.6161		0+109.1192		0+267.3830		0+354.6050	
		CS/CT /CC		E 383997.2509 N 838308.1395		E 384085.4426 N 838288.4464		E 838290.3637 N 838228.4698		E 838295.7107 N 384359.8880	
		STA		0+056.6866		0+147.3734		0+290.4160		0+421.9920	
		ST/SS		E 384016.3873 N 838302.3309		E 384100.4415 N 838288.4554				E ST/SS N	
		STA		0+076.6866		0+162.3734				STA	
		AZIMUTH		116°40'46.95"		106°07'15.99"		89°10'11.18"		88°54'21.00"	
				84°04'46.55"						AZIMUTH	

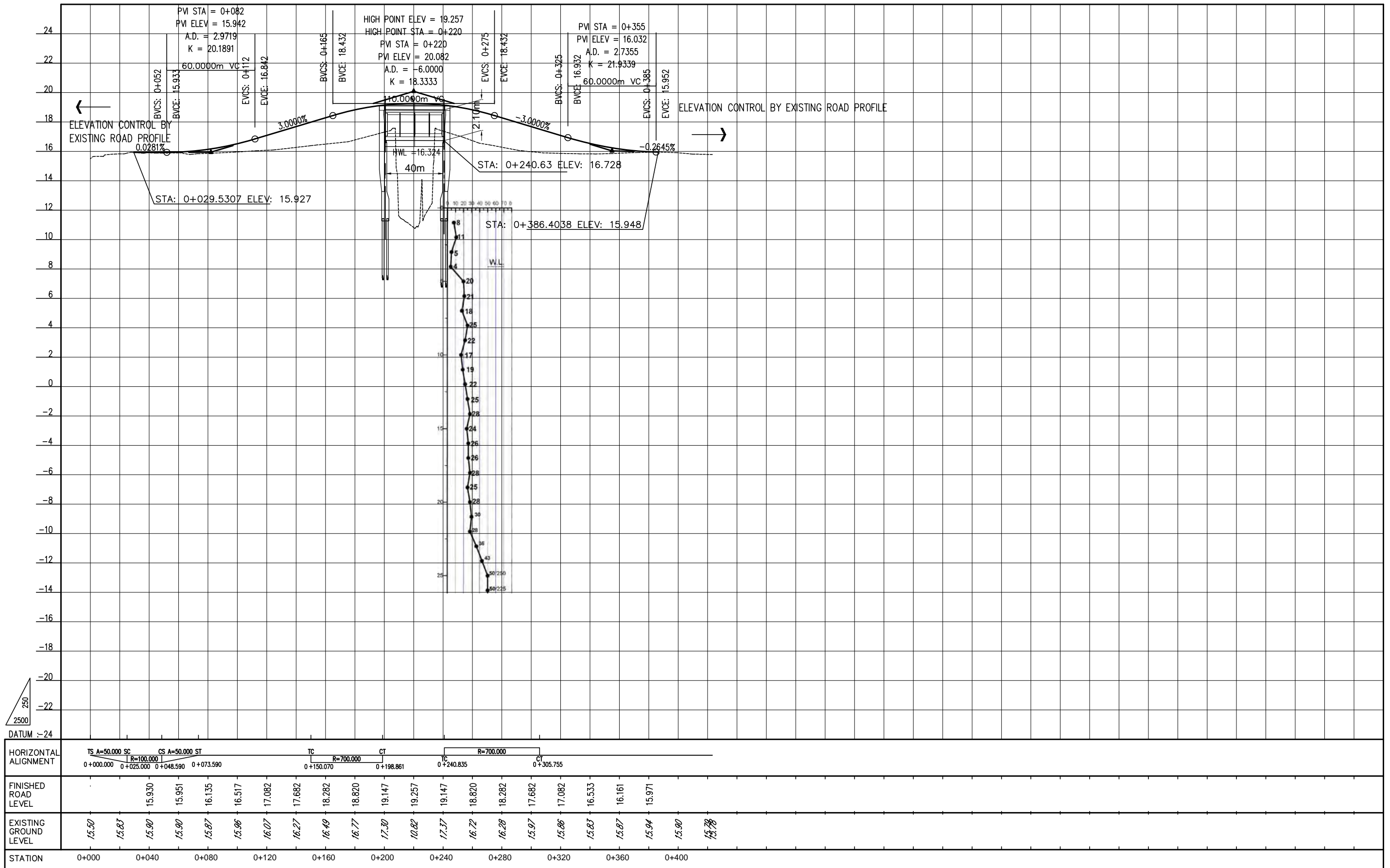


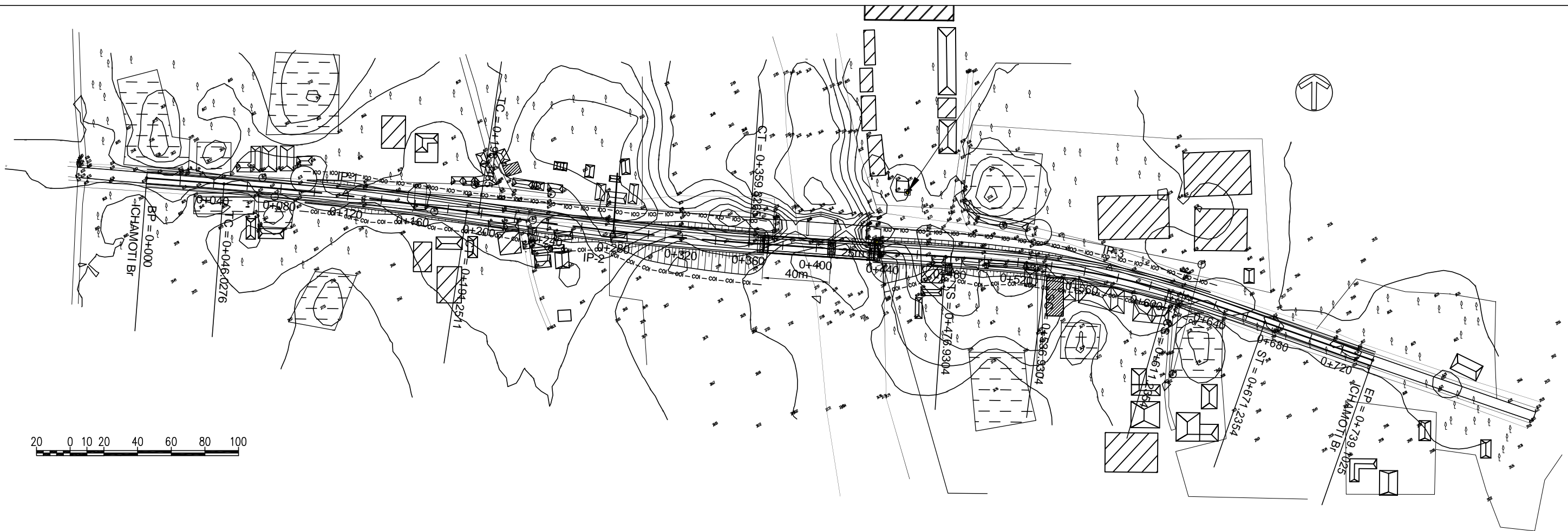


HORIZONTAL ALIGNMENT		BP	TS	SC	CS	ST	TS	SC	TC	CT	TC												
		0+000.000	0+010.616	0+030.616	0+056.687	0+076.687	0+094.119	0+103.119	0+147.373	0+267.383	0+290.416	0+354.605	0+421.992										
FINISHED ROAD LEVEL			36.700	36.816	37.134	37.652	38.252	38.852	39.443	39.883	40.123	40.163	40.003	39.643	39.092	38.492	37.892	37.352	37.020	36.902	36.938		
EXISTING GROUND LEVEL		36.77	36.65	36.52	36.46	36.44	36.45	36.47	36.69	37.38	32.57	32.91	37.43	36.85	36.69	36.61	36.60	36.66	36.77	36.85	36.92	36.97	36.99
STATION		0+000	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+320	0+360	0+400										

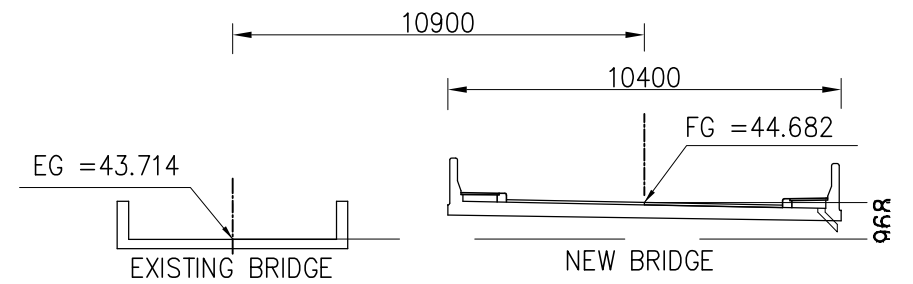


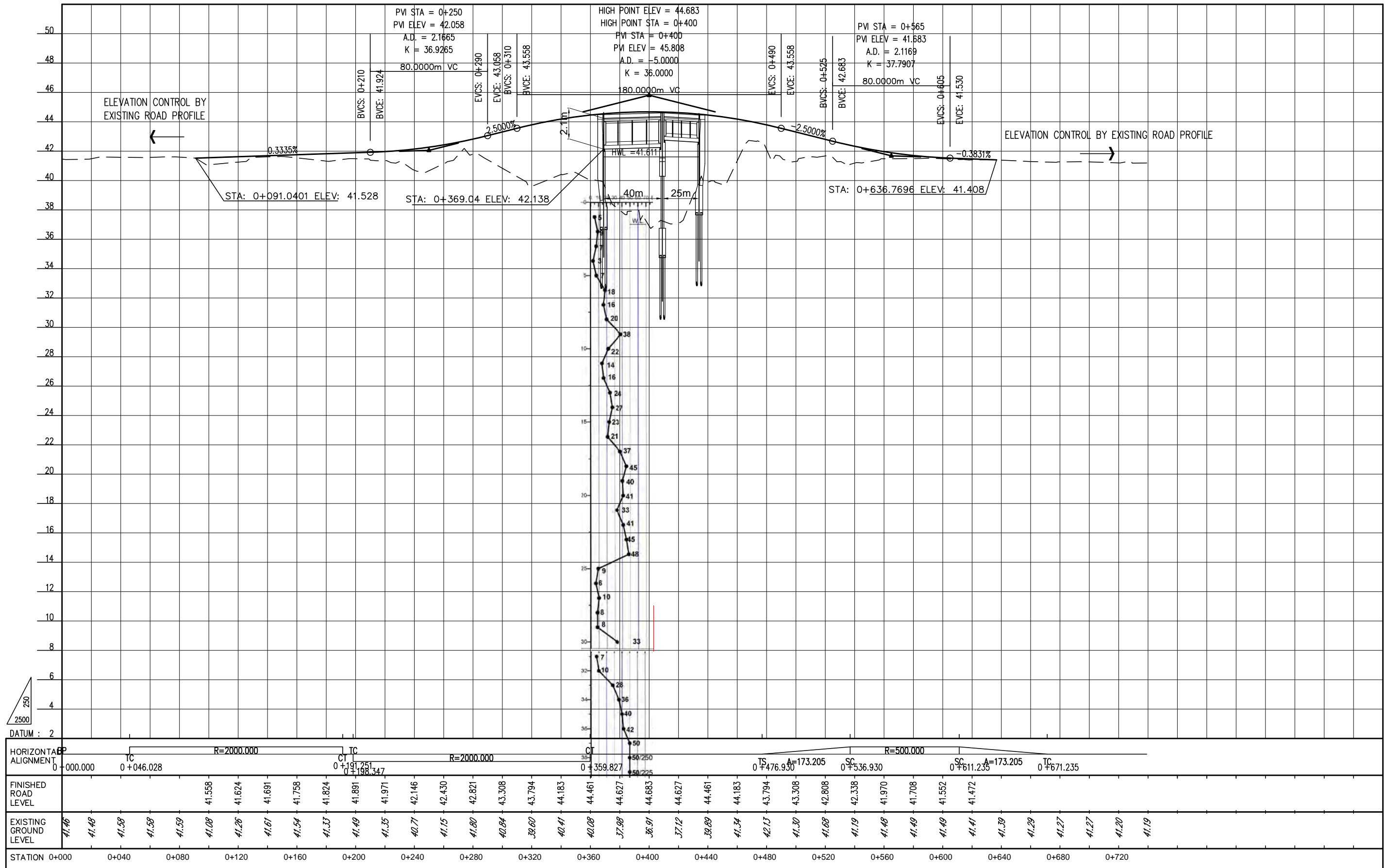
BP		IP-1		IP-2		IP-3		EP	
X	442173.4558	v (Kph) 50		50		50		v (Kph)	X 442582.5085
Y	742396.8582	TYPE SPIRAL-CIRCLE-SPIRAL		FULL CIRCLE		FULL CIRCLE		TYPE	Y 742301.1224
STA	0+000	27°50'24.28"		3°59'36.86"		5°18'49.70"		△	STA 0+423.3134
		R (m) 100.0000		700.0000		700.0000		R (m)	
		A 50.0000		50.0000				A	
		TS / TC (m) 37.3426		37.3426		24.4052		32.4835	TS / TC (m)
		LC (m) 23.5901				48.7907		64.9204	LC (m)
		LS (m) 25.0000		25.0000					LS (m)
		L (m) 73.5900		48.7907		64.9204			L (m)
		e max (%)							e max (%)
		PI E 442202.4348		442338.0012		442436.0695		E	PI
		N 742373.3064		742346.3127		742333.8060		N	
		TS/SS E 442173.4558						E	TS/SS
		N 742396.8582						N	
		STA 0+000						STA	
		SC/TC E 442193.4825		442314.0659		442403.8470		E	SC/TC
		/cc N 742381.9229		742351.0787		742337.9153		N	/cc
		STA 0+025		0+150.0700		0+240.8345		STA	
		CS/CT E 442214.7813		742343.2253		742326.7301		E	CS/CT
		/cc N 742371.9089		442362.2104		442467.7730		N	/cc
		STA 0+048.5901		0+198.8607		0+305.7549		STA	
		ST/SS E 442239.0585						E	ST/SS
		N 742366.0140						N	
		STA 0+073.5901						STA	
		129°06'05.06"		AZIMUTH 101°15'40.78"		97°16'03.92"		102°34'53.62"	AZIMUTH

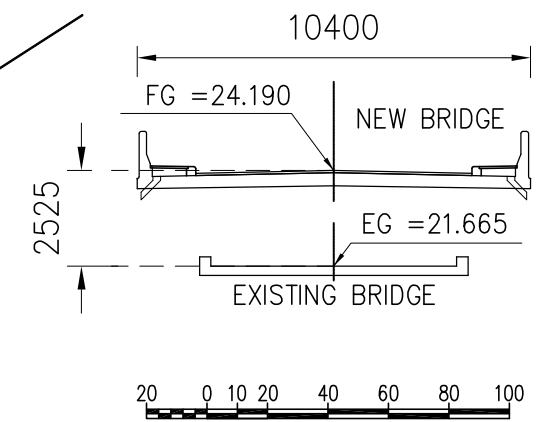




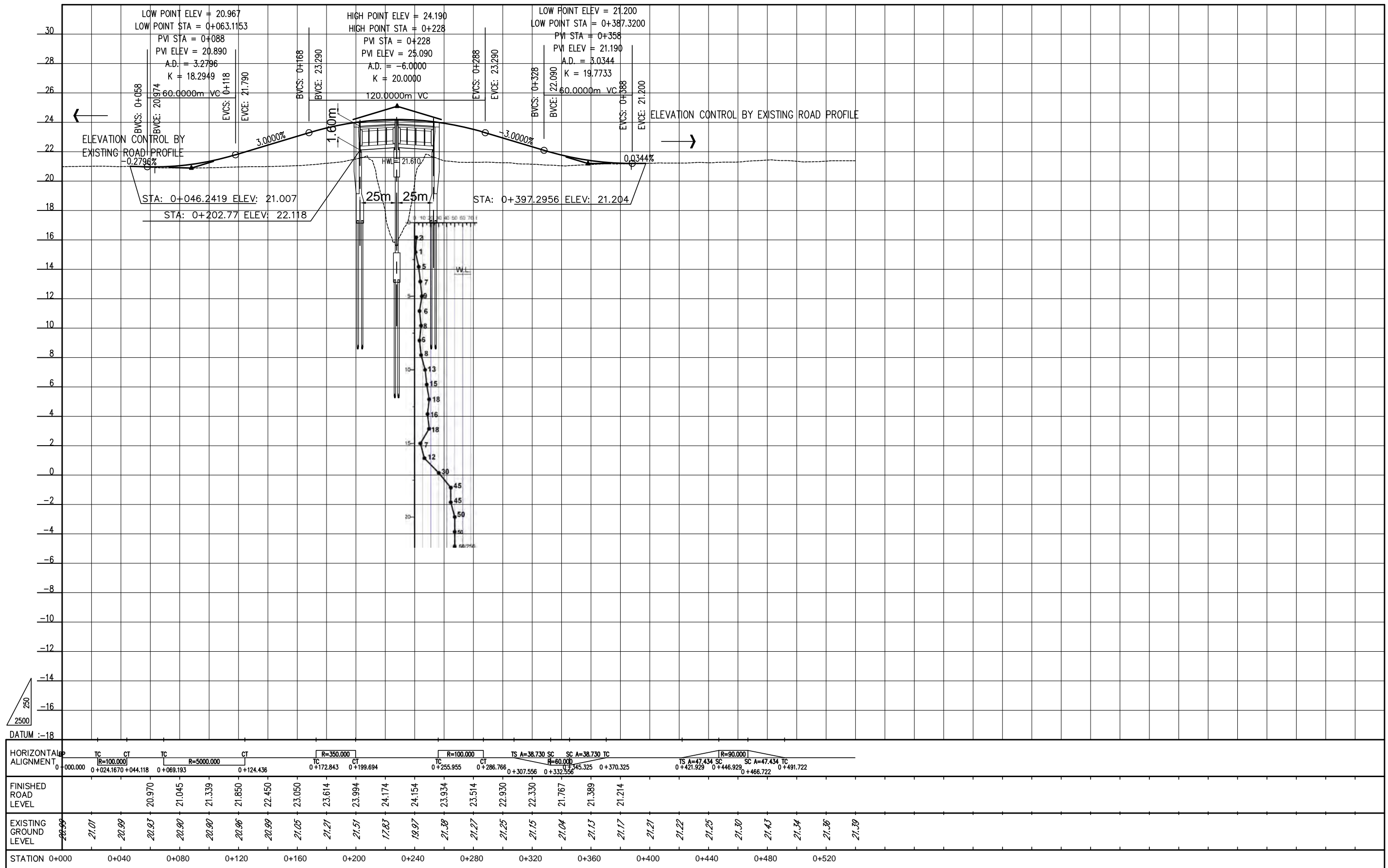
	V (Kph)	IP-1	IP-2	IP-3	V (Kph)	EP
X		80	80	80		379633.3659
Y	850906.6071					850805.4004
STA						0+739.1025
	TYPE	FULL CIRCLE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	TYPE	
	$\Delta$	4°09'37.25"	4°37'33.82"	15°23'24.78"	$\Delta$	
	R (m)	2000.0000	2000.0000	500.0000	R (m)	
	A			173.2051   173.2051	A	
	TS / TC (m)	72.6437	80.7839	97.5961   97.5961	TS / TC (m)	
	LC (m)	145.2235	161.4800	74.3050	LC (m)	
	LS (m)			60.0000   60.0000	LS (m)	
	L (m)	145.2235	161.4800	194.3050	L (m)	
	e max (%)				e max (%)	
	PI	E 379022.8033 N 850898.6109	E 379181.7547 N 850876.2041	E 379476.7191 N 850858.6910	PI	
	TS	E		E 379379.2946 N 850864.4754	TS	
				STA 0+476.9304	STA	
	SC/TC /SS/CC	E 378950.3247 N 850903.5057 STA 0+046.0276	E 379101.7617 N 850887.4804 STA 0+198.3465	E 379439.0964 N 850859.7230 STA 0+536.9304	SC/TC /CC/SS	
	CS/CT /CC	E 850888.4708 N 379094.7357 STA 0+191.2511	E 850871.4161 N 379262.3965 STA 0+359.8265	E 379511.9461 N 850845.4397 STA 0+611.2354	CS/CT /CC	
	ST	E		E 379569.1150 N 850827.2583 STA 0+671.2354	ST	
	AZIMUTH	98°01'26.13"	93°23'52.31"	108°47'17.09"	AZIMUTH	



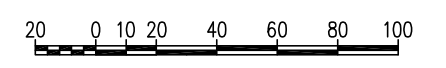
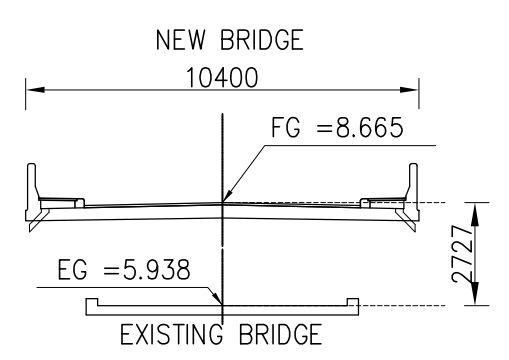
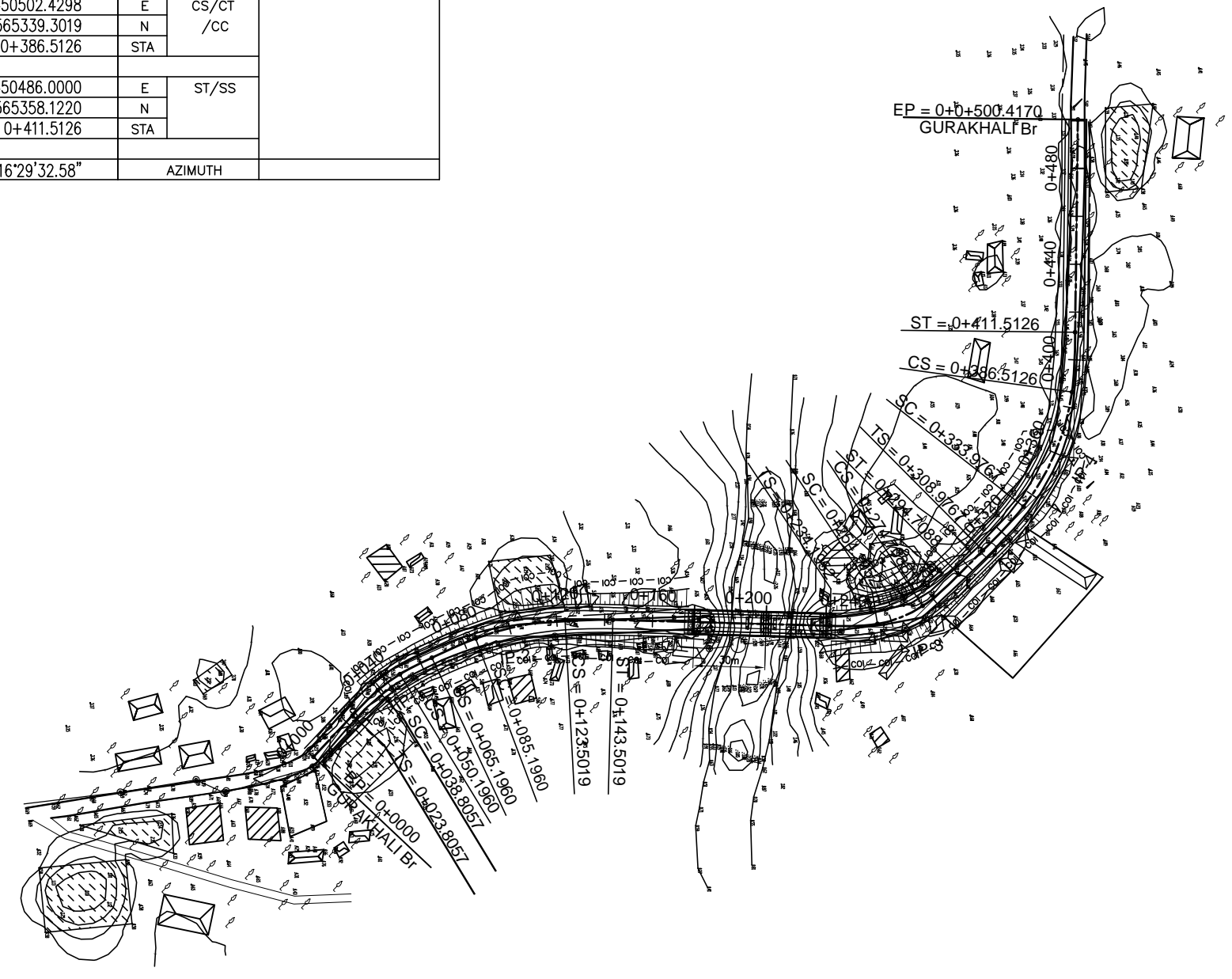




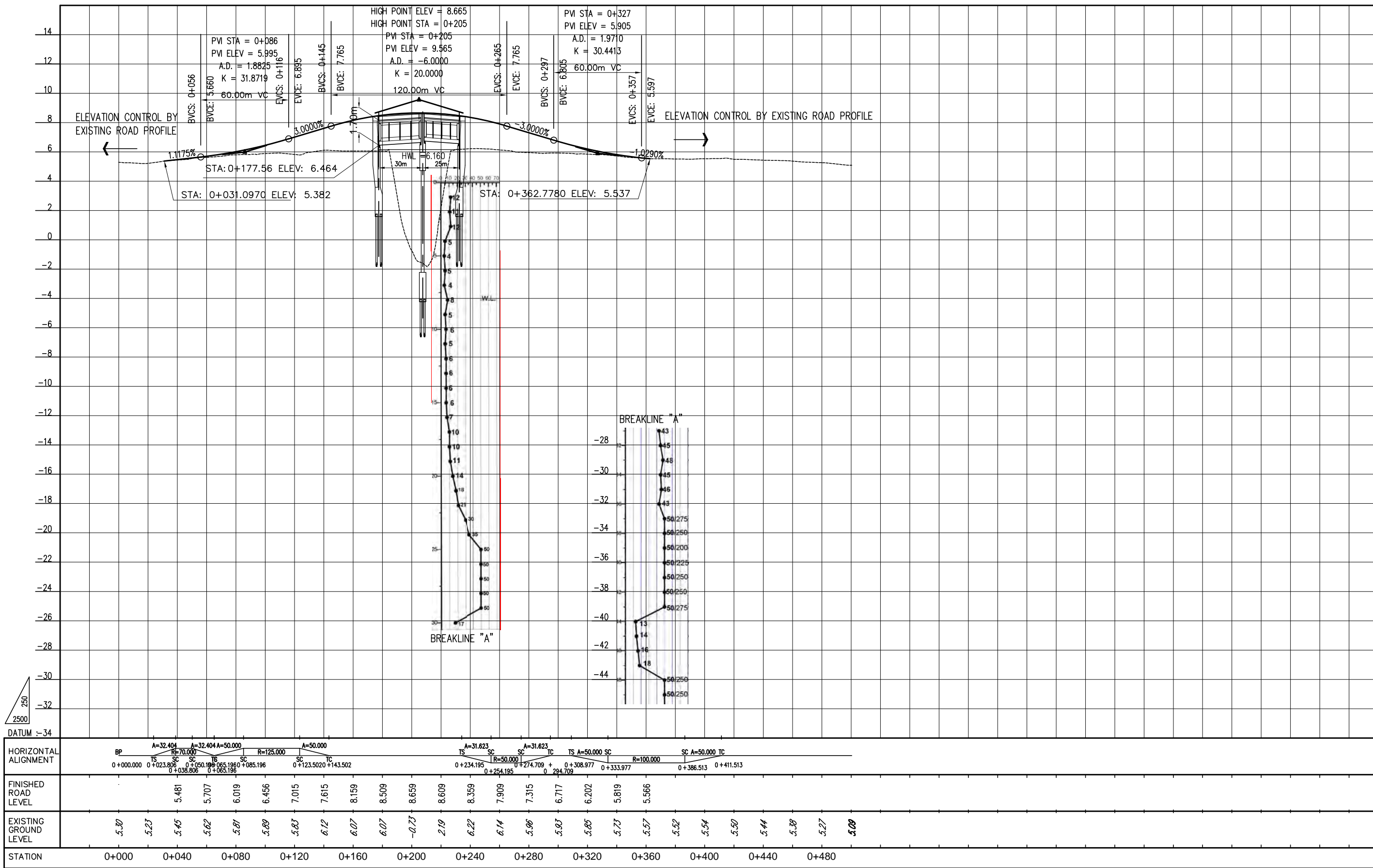
BP		IP-1	IP-2	IP-3	IP-4	IP-5	IP-6	EP			
X	334039.0283	50	50	50	50	40	40	V (Kph)	X	334419.2402	
Y	701999.6815	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	TYPE	Y	701628.4773
STA	0+000	$\Delta$	11°25'51.64"	0°37'58.95"	4°23'44.12"	17°39'12.81"	36°04'00.29"	28°30'56.97"	$\Delta$	STA	0+539.6730
		R (m)	100.0000	5000.0000	350.0000	100.0000	60.0000	90.0000	R (m)		
		A					38.7298	38.7298	47.4342	47.4342	A
		TS / TC (m)	10.0087	27.6219	13.4322	15.5287	32.1568	32.1568	35.4358	35.4358	TS / TC (m)
		LC (m)	19.9509	55.2432	26.8511	30.8113	12.7690	12.7690	19.7926	19.7926	LC (m)
		LS (m)					25.0000	25.0000	25.0000	25.0000	LS (m)
		L (m)	19.9509	55.2432	26.8511	30.8113	62.7690	62.7690	69.7930	69.7930	L (m)
		e max (%)									e max (%)
		PI	E	334059.6353	334106.6099	334174.2780	334234.2773	334265.4694	334371.8303	E	PI
			N	701972.4180	701930.8797	701872.3622	701811.8413	701750.8828	701697.0751	N	
		TS/SS	E					334250.8212	334340.2105	E	TS/SS
			N					701779.5096	701713.0714	N	
			STA					0+307.5561	0+421.9294	STA	
		SC/TC /cc	E	334053.6003	334085.9176	334164.1180	334223.3445	334263.7007	334361.9536	E	SC/TC /cc
			N	701980.4025	701949.1773	701881.1483	701822.8692	701758.1388	701700.7764	N	
			STA	0+024.1666	0+069.1929	0+172.8432	0+255.9549	0+332.5561	0+446.9294	STA	
		CS/CT /cc	E	701965.7880	701912.8119	701862.8232	701798.0173	334272.7334	334376.8402	E	CS/CT /cc
			N	334067.1330	334127.5030	334183.7348	334241.3510	701749.1476	701687.7934	N	
			STA	0+044.1175	0+124.4361	0+199.6943	0+286.7662	0+345.3251	0+466.7220	STA	
		ST/SS	E					334294.1633	334391.9774	E	ST/SS
			N					701736.3666	701667.9240	N	
			STA					0+370.3251	0+491.7220	STA	
	142°54'59.02"	AZIMUTH	131°29'07.38"	130°51'08.44"	135°14'52.56"	152°54'05.37"	116°50'05.08"	145°21'02.05"		AZIMUTH	

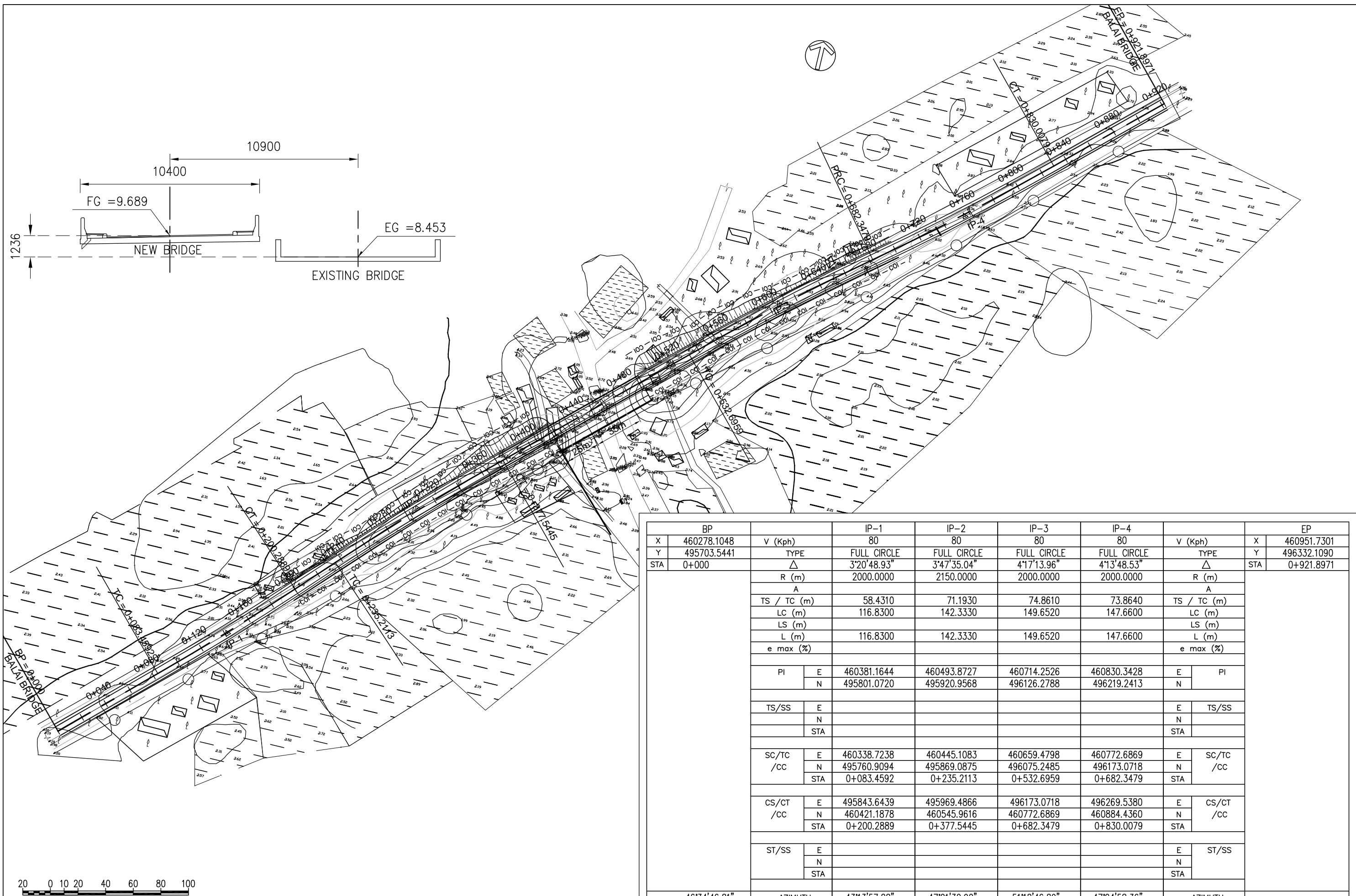


BP		IP-1		IP-2		IP-3		IP-4		EP	
X	450381.4983	V (Kph) 40		40		40		50		V (Kph) 40	
Y	565008.9453	TYPE SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		TYPE SPIRAL-CIRCLE-SPIRAL	
STA	0+000	21°36'02.76"		26°43'31.64"		46°25'30.34"		44°25'29.33"		STA 0+500.4170	
		R (m) 70.0000		125.0000		50.0000		100.0000		R (m)	
		A 32.4037 32.4037		50.0000 50.0000		31.6228 31.6228		50.0000 50.0000		A	
		TS / TC (m) 20.8764 20.8764		39.7228 39.7228		31.5724 31.5724		53.4343 53.4343		TS / TC (m)	
		LC (m) 11.3903		38.3059		20.5135		52.5359		LC (m)	
		LS (m) 15.0000 15.0000		20.0000 20.0000		20.0000 20.0000		25.0000 25.0000		LS (m)	
		L (m) 41.3900		78.3060		60.5140		102.5360		L (m)	
		e max (%)								e max (%)	
		PI E 450380.7310		450402.0690		450521.1978		450522.7869		PI E	
		N 565053.6208		565110.3389		565220.1051		565319.3670		N	
		TS/SS E 450381.0895		450388.0819		450497.9789		450521.9316		E TS/SS	
		N 565032.7475		565073.1601		565198.7111		565265.9396		N	
		STA 0+023.8057		0+065.1960		0+234.1952		0+308.9767		STA	
		SC/TC /CC E 450381.3674		450395.6187		450511.7276		450521.2907		E SC/TC /CC	
		N 565047.7372		565091.6796		565213.1871		565290.9140		N	
		STA 0+038.8057		0+085.1960		0+254.1952		0+333.9767		STA	
		CS/CT /CC E 450383.3072		450416.9441		450520.0549		450502.4298		E CS/CT /CC	
		N 565058.9484		565123.3201		565231.7772		565339.3019		N	
		STA 0+050.1960		0+123.5019		0+274.7088		0+386.5126		STA	
		ST/SS E 450388.0819		450431.2817		450521.7032		450486.0000		E ST/SS	
		N 565073.1601		565137.2558		565251.6735		565358.1220		N	
		STA 0+065.1960		0+143.5019		0+294.7088		0+411.5126		STA	
359°00'57.85"		AZIMUTH 20°37'00.61"		47°20'32.25"		0°55'01.91"		316°29'32.58"		AZIMUTH	

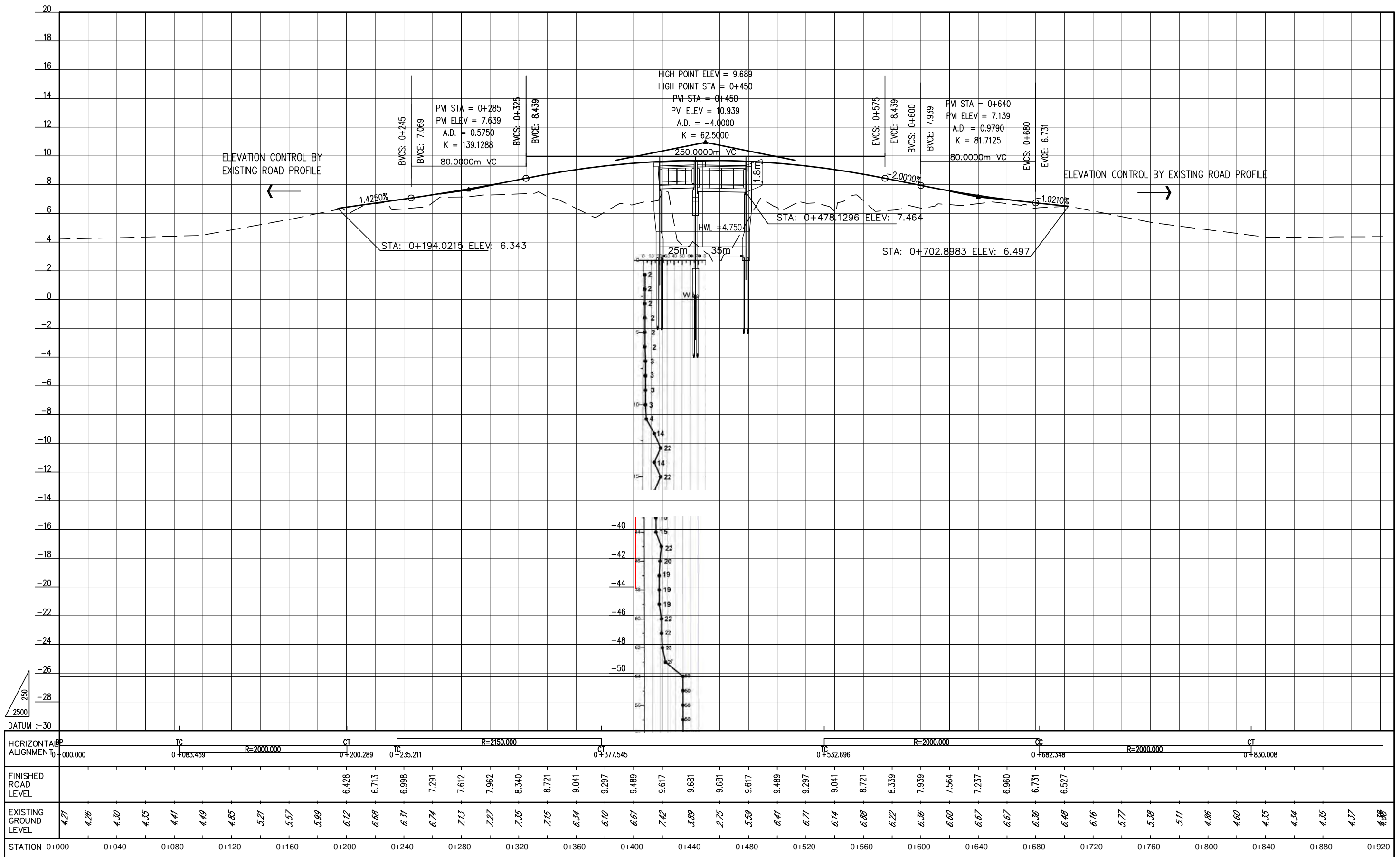


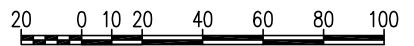
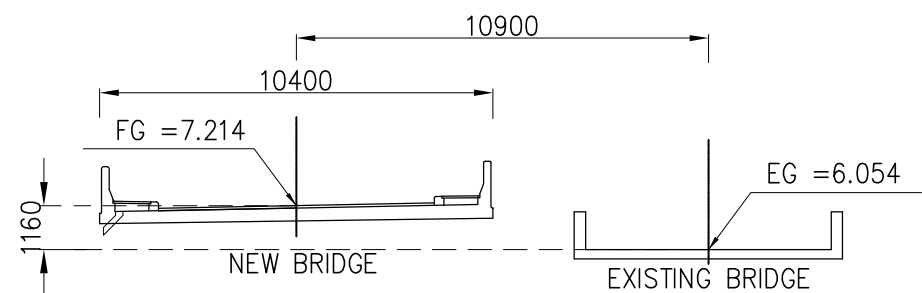
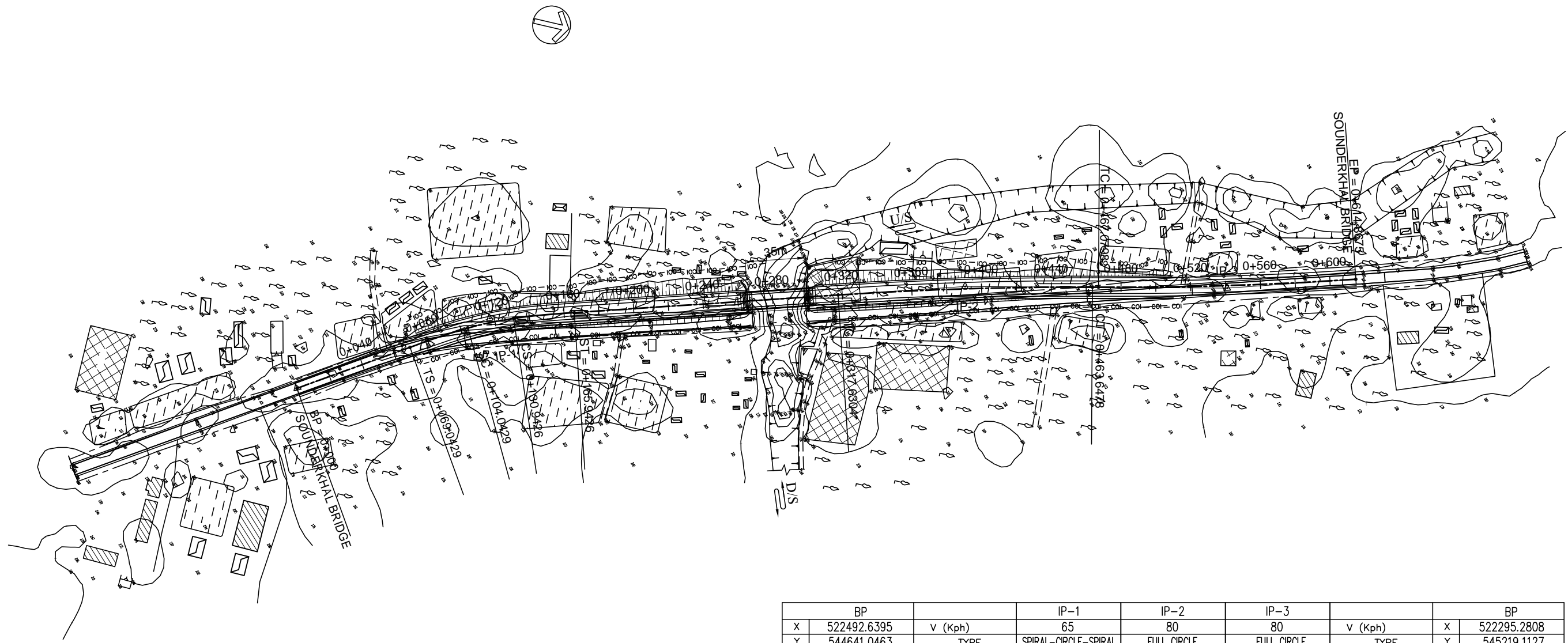




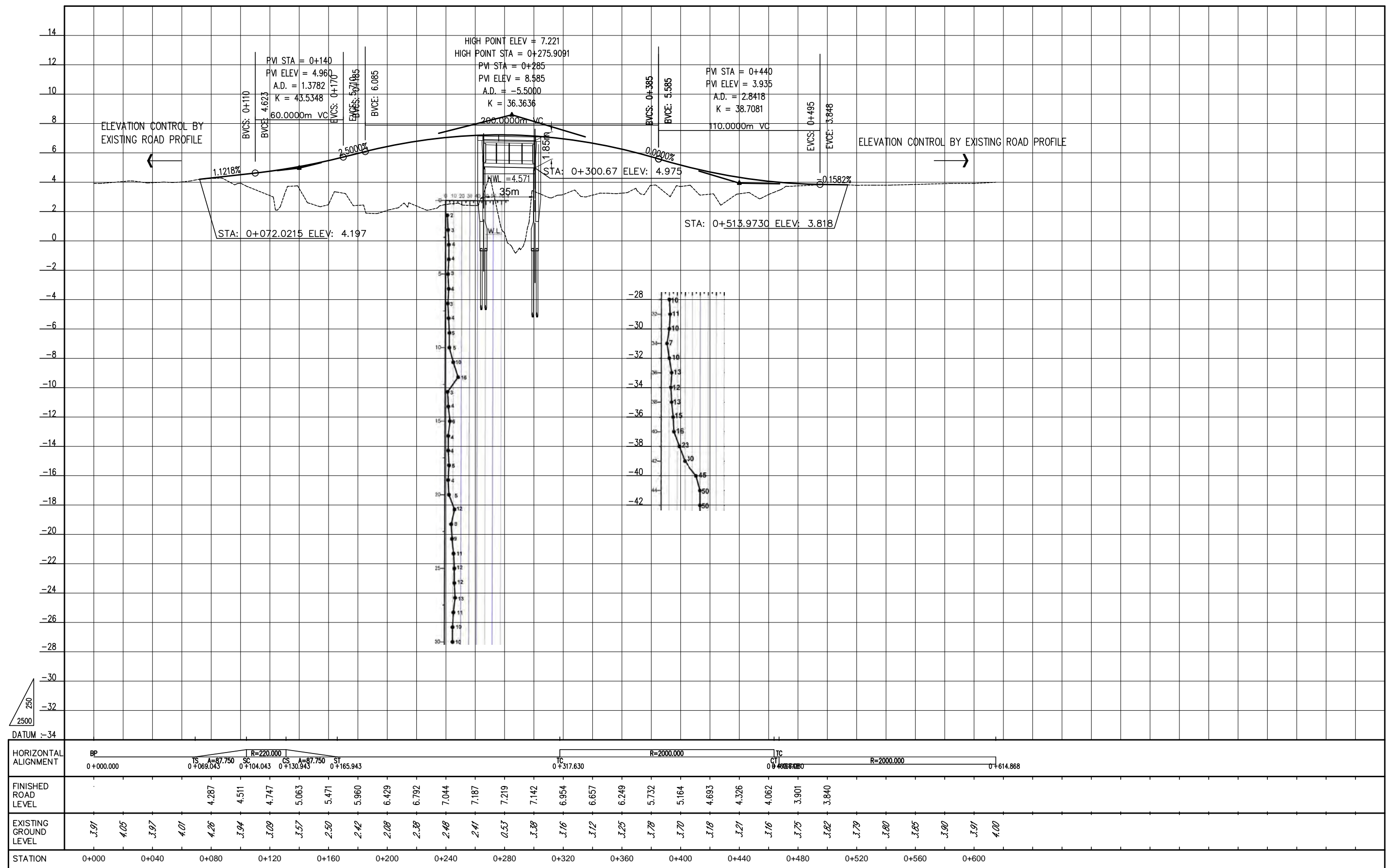


BP		IP-1	IP-2	IP-3	IP-4	EP			
X	460278.1048	V (Kph)	80	80	80	80	V (Kph)	X	460951.7301
Y	495703.5441	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE	Y	496332.1090
STA	0+000	$\Delta$	3°20'48.93"	3°47'35.04"	4°17'13.96"	4°13'48.53"	$\Delta$	STA	0+921.8971
		R (m)	2000.0000	2150.0000	2000.0000	2000.0000	R (m)		
		A					A		
		TS / TC (m)	58.4310	71.1930	74.8610	73.8640	TS / TC (m)		
		LC (m)	116.8300	142.3330	149.6520	147.6600	LC (m)		
		LS (m)					LS (m)		
		L (m)	116.8300	142.3330	149.6520	147.6600	L (m)		
		e max (%)					e max (%)		
		PI	E 460381.1644 N 495801.0720	E 460493.8727 N 495920.9568	E 460714.2526 N 496126.2788	E 460830.3428 N 496219.2413	PI		
		TS/SS	E N STA				E N STA	TS/SS	
		SC/TC /CC	E 460338.7238 N 495760.9094 STA 0+083.4592	E 460445.1083 N 495869.0875 STA 0+235.2113	E 460659.4798 N 496075.2485 STA 0+532.6959	E 460772.6869 N 496173.0718 STA 0+682.3479	SC/TC /CC		
		CS/CT /CC	E 495843.6439 N 460421.1878 STA 0+200.2889	E 495969.4866 N 460545.9616 STA 0+377.5445	E 496173.0718 N 460772.6869 STA 0+682.3479	E 496269.5380 N 460884.4360 STA 0+830.0079	CS/CT /CC		
		ST/SS	E N STA				E N STA	ST/SS	
		46°34'46.81"	AZIMUTH	43°13'57.88"	47°01'32.92"	51°18'46.89"	47°04'58.36"	AZIMUTH	



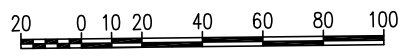
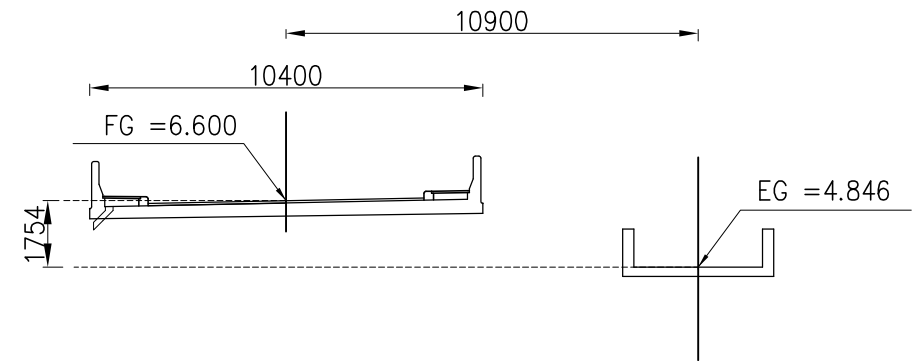


BP		IP-1	IP-2	IP-3	BP			
X	522492.6395	V (Kph)	65	80	80	V (Kph)	X	522295.2808
Y	544641.0463	TYPE	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	FULL CIRCLE	TYPE	Y	545219.1127
STA	0+000		16°07'15.13"	4°10'59.13"	4°14'01.70"		STA	0+614.8675
		R (m)	220.0000	2000.0000	2000.0000	R (m)		
		A	87.7496   87.7496			A		
		TS / TC (m)	48.6848   48.6848	73.0412	73.9275	TS / TC (m)		
		LC (m)	26.8997	146.0174	147.7877	LC (m)		
		LS (m)	35.0000   35.0000			LS (m)		
		L (m)	96.9000	146.0174	147.7877	L (m)		
		e max (%)				e max (%)		
		PI	E 522428.6451 N 544739.8620	E 522349.5888 N 545001.5970	E 522316.7192 N 545148.3619	PI		
		TS	E 522455.1092 N 544698.9980			TS		
		STA	0+069.0429			STA		
		SC/TC /SS/CC	E 522436.8745 N 544728.8612 STA 0+104.0429	E 522370.7083 N 544931.6757 STA 0+317.6304	E 522332.8758 N 545076.2215 STA 0+467.0798	SC/TC /CC/SS		
		CS/CT /CC	E 522425.5698 N 544753.2517 STA 0+130.9426	E 545072.8725 N 522333.6259 STA 0+463.6478	E 545219.1127 N 522295.2808 STA 0+614.8675	CS/CT /CC		
		ST	E 522414.5681 N 544786.4672 STA 0+165.9426			ST		
		327°04'20.42"	AZIMUTH	343°11'35.55"	347°22'34.68"	343°08'32.98"	AZIMUTH	

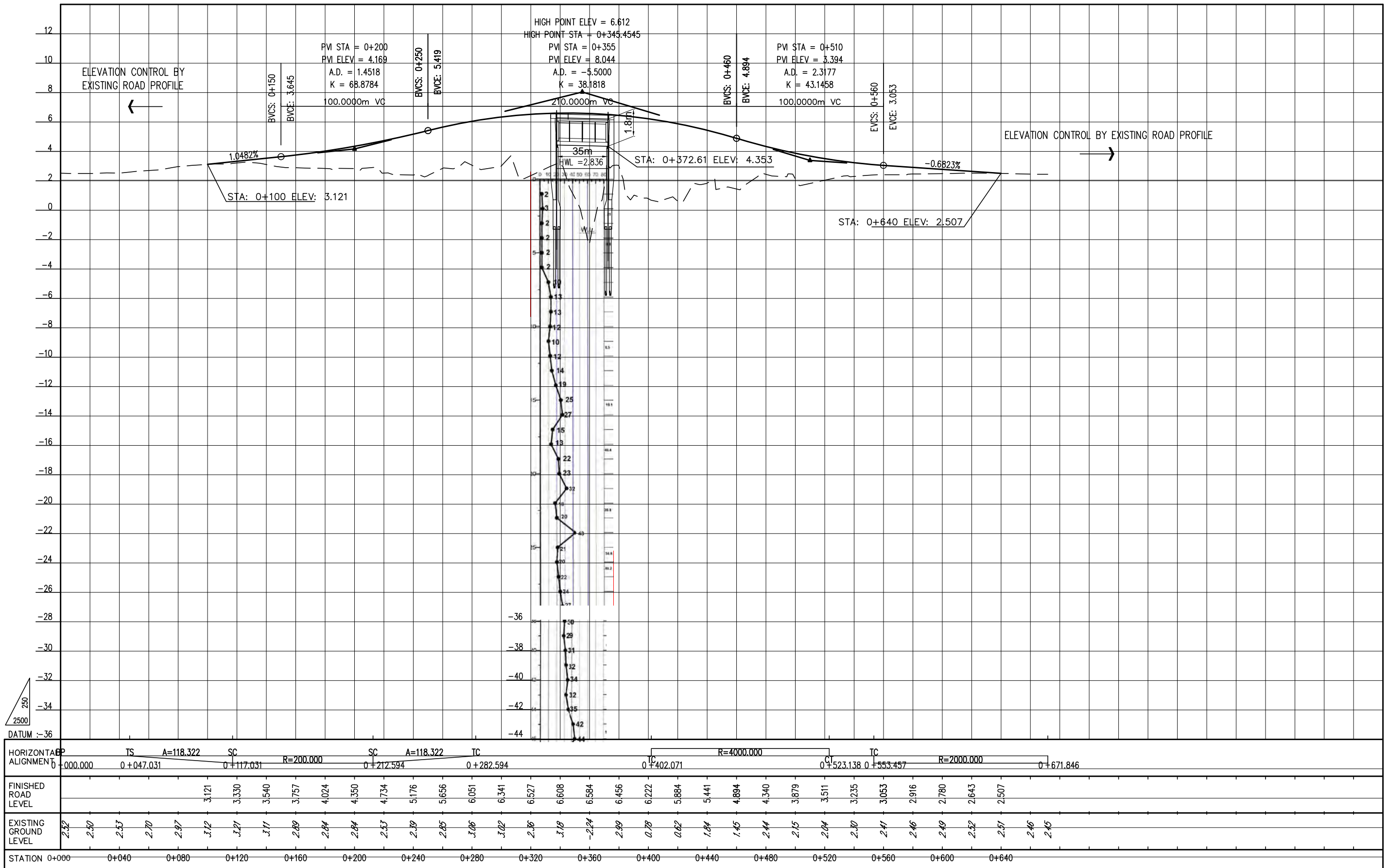


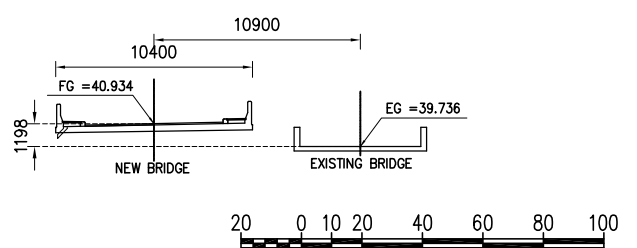
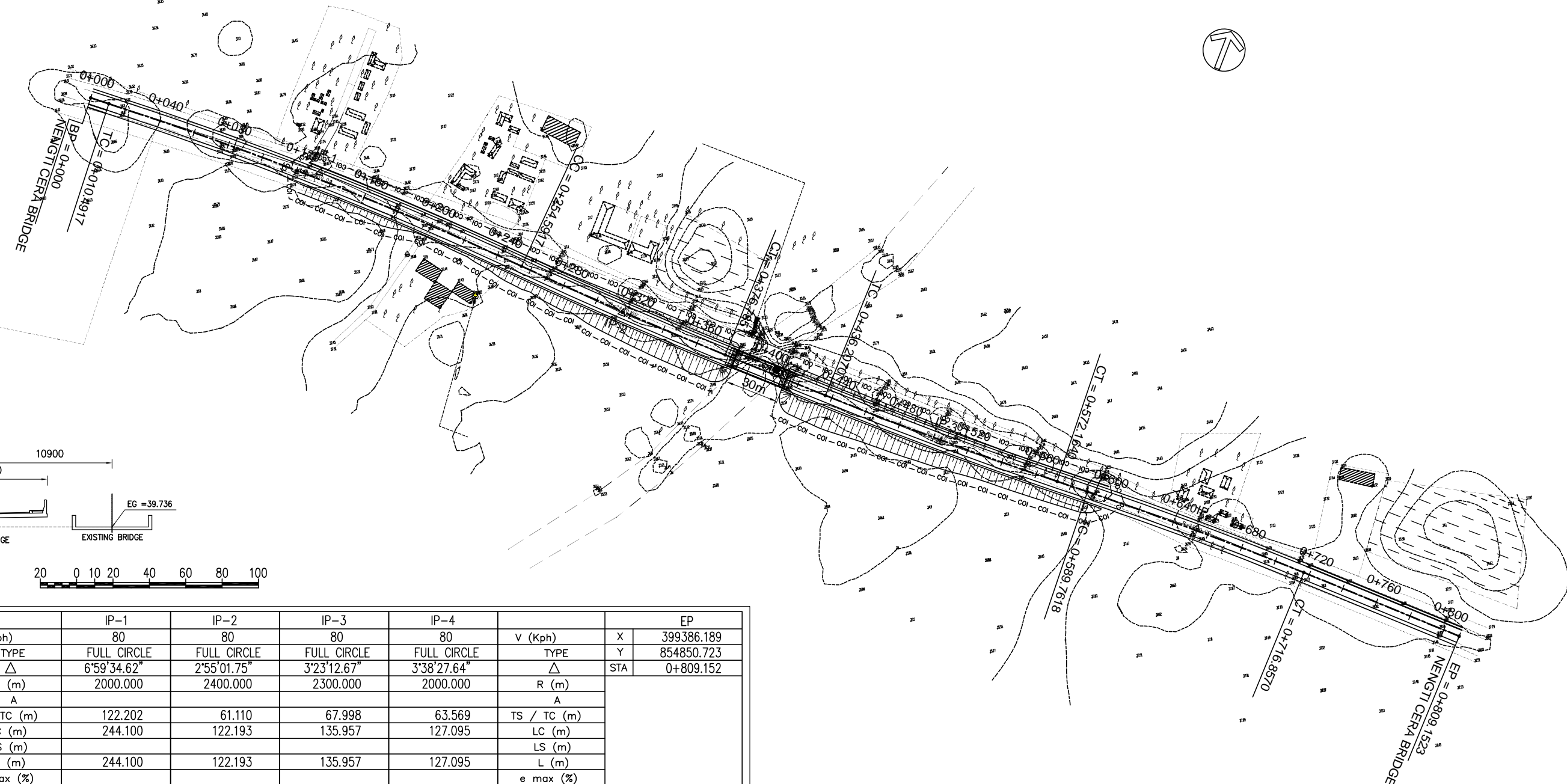


BP		IP-1			IP-2		IP-3		EP	
X	534517.8331	V (Kph)	50	80	80	V (Kph)		X	534800.5439	
Y	492763.6124	TYPE	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	FULL CIRCLE	TYPE		Y	492188.7199	
STA	0+000	$\Delta$	47°25'48.40"	1°44'02.99"	3°23'29.83"	$\Delta$		STA	0+671.8463	
		R (m)	200.0000	4000.0000	2000.0000	R (m)				
		A	118.3216	118.3216		A				
		TS / TC (m)	123.2688   123.2688	60.5383	59.2122	TS / TC (m)				
		LC (m)	95.5623	121.0674	118.3898	LC (m)				
		LS (m)	70.0000   70.0000			LS (m)				
		L (m)	235.5620	121.0674	118.3898	L (m)				
		e max (%)				e max (%)				
		PI	E 534489.1505 N 492595.7452	E 534674.7593 N 492355.8893	E 534762.9670 N 492234.4808	PI				
		TS	E 534509.9119 N 492717.2530 STA 0+047.0312			TS				
		SC/TC /SS/CC	E 534502.1745 N 492647.7778 STA 0+117.0312	E 534637.7101 N 492403.7667 STA 0+402.0708	E 534728.1631 N 492282.3846 STA 0+553.4565	SC/TC /CC/SS				
		CS/CT /CC	E 534525.1041 N 492555.9412 STA 0+212.5935	E 492306.9126 N 534710.3426 STA 0+523.1382	E 492188.7199 N 534800.5439 STA 0+671.8463	CS/CT /CC				
		ST	E 534564.5905 N 492498.2567 STA 0+282.5935			ST				
		189°41'46.22"	AZIMUTH	142°15'57.82"	144°00'00.80"	140°36'30.98"	AZIMUTH			



		<b>ORIENTAL CONSULTANTS GLOBAL CO., LTD.</b>		No. _____ DATE _____	<b>PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT</b>	DESIGNED BY:	
		<b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>				CHECKED BY:	
				PLAN OF BAKERGONJ BRIDGE (N8_182a) RANK : 43, SN : 12, ZONE : BARISAL, BRIDGE TYPE : PCG		APPROVED BY:	
						DWG. NO.	BR 043-1

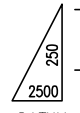
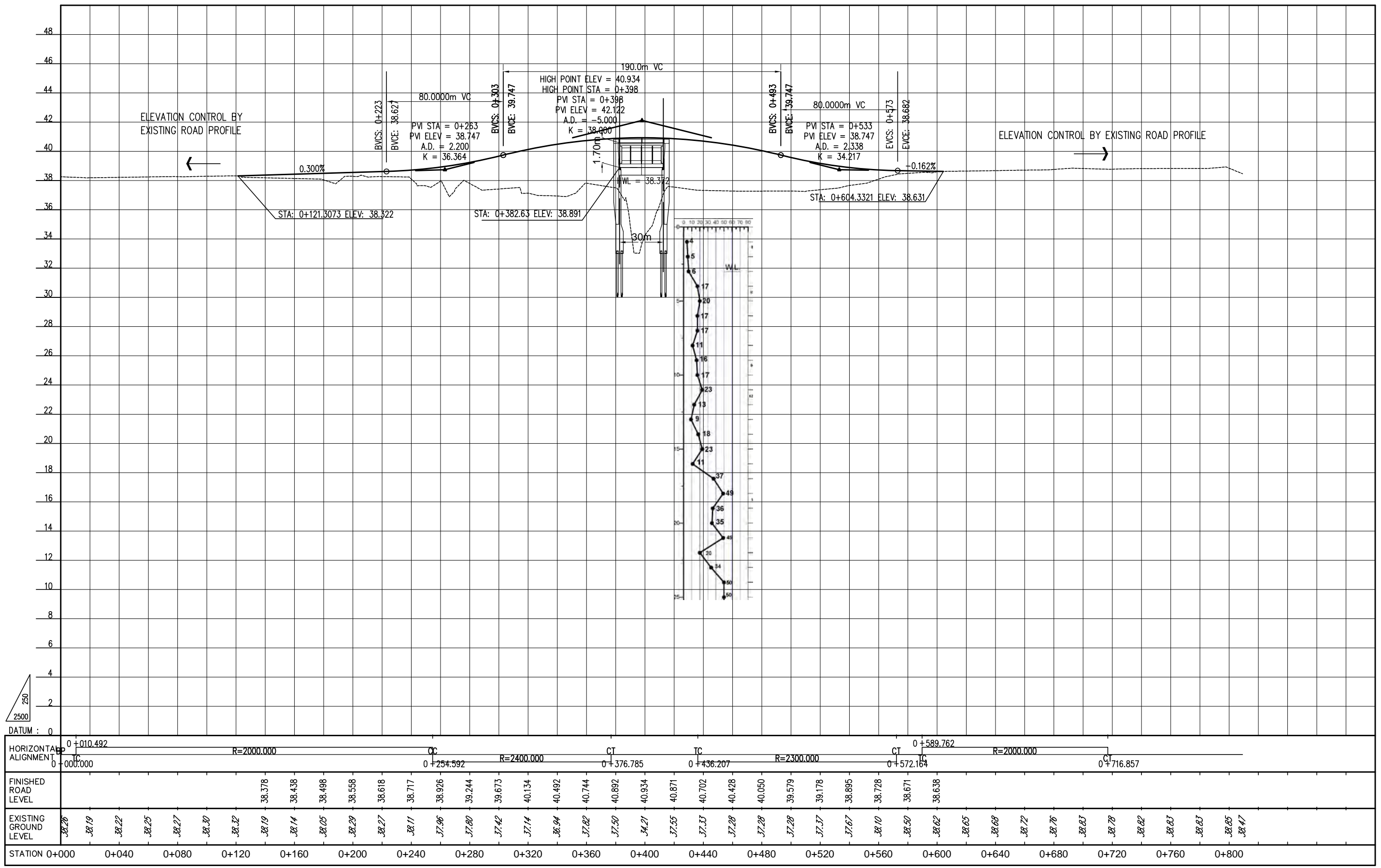




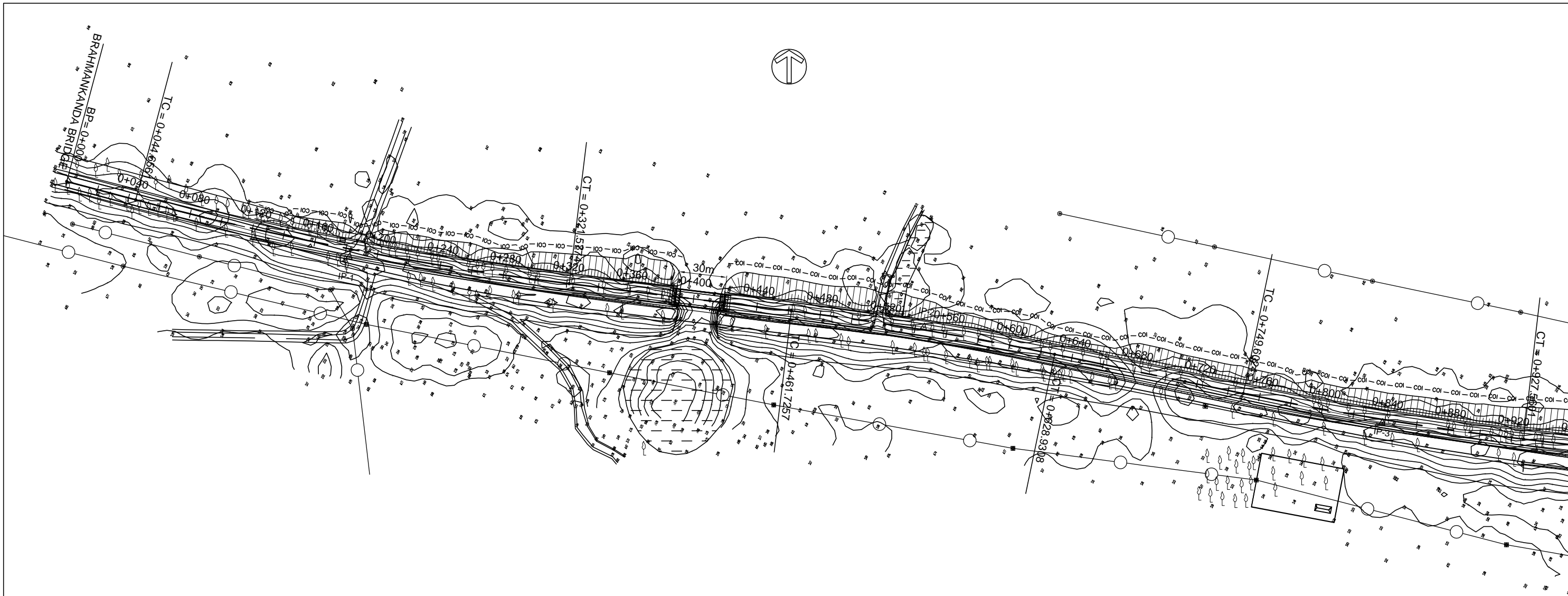
BP		IP-1				IP-2				IP-3				IP-4				EP	
X	398577.447	V (Kph)		80		80		80		80		V (Kph)		X		399386.189			
Y	854857.567	TYPE		FULL CIRCLE		FULL CIRCLE		FULL CIRCLE		FULL CIRCLE		TYPE		Y		854850.723			
STA	0+000	R (m)		2000.000		2400.000		2300.000		2000.000		R (m)		STA		0+809.152			
		A		TS / TC (m)		122.202		61.110		67.998		63.569		TS / TC (m)					
		LC (m)		244.100		122.193		135.957		127.095		127.095		LC (m)					
		LS (m)												LS (m)					
		L (m)		244.100		122.193		135.957		127.095		127.095		L (m)					
		e max (%)												e max (%)					
		PI		E		398709.957		398892.826		399081.323		399230.366		E		PI			
		N		854864.531		854851.793		854848.281		854854.318		854854.318		N					
		TS		E										E		TS			
		N												N					
		STA												STA					
		SC/TC		E		398587.924		398831.863		399013.337		399166.849		E		SC/TC			
		/SS/CC		N		854858.117		854856.039		854849.548		854851.745		N		/CC/SS			
		STA		0+010.491		0+254.591		0+436.207		0+589.761		0+589.761		STA					
		CS/CT		E		854856.039		854850.654		854851.033		854852.852		E		CS/CT			
		/CC		N		398831.863		398953.925		399149.266		399293.918		N		/CC			
		STA		0+254.591		0+376.785		0+572.164		0+716.857		0+716.857		STA					
		ST		E										E		ST			
		N												N					
		STA												STA					
86°59'29.73"		AZIMUTH		93°59'04.35"		91°04'02.60"		87°40'49.93"		91°19'17.57"		91°19'17.57"		AZIMUTH					

<b>MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)</b> PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>ORIENTAL CONSULTANTS GLOBAL CO., LTD.</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	No. _____ DATE _____	<b>PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT</b> PLAN OF NENGTI CERA BRIDGE (N5_356a) RANK : 44, SN : 24, ZONE RANGPUR , BRIDGE TYPE PCG	DESIGNED BY:	
				CHECKED BY:	
				APPROVED BY:	
				DWG. NO.	BR 044-1

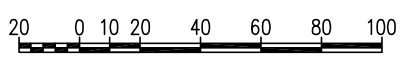
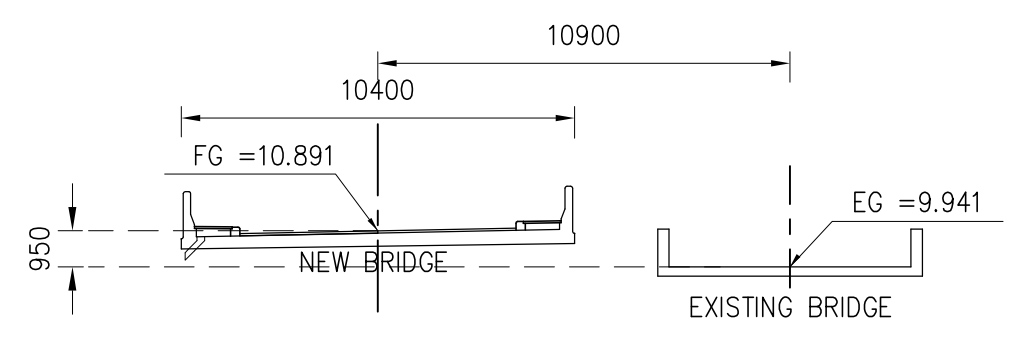


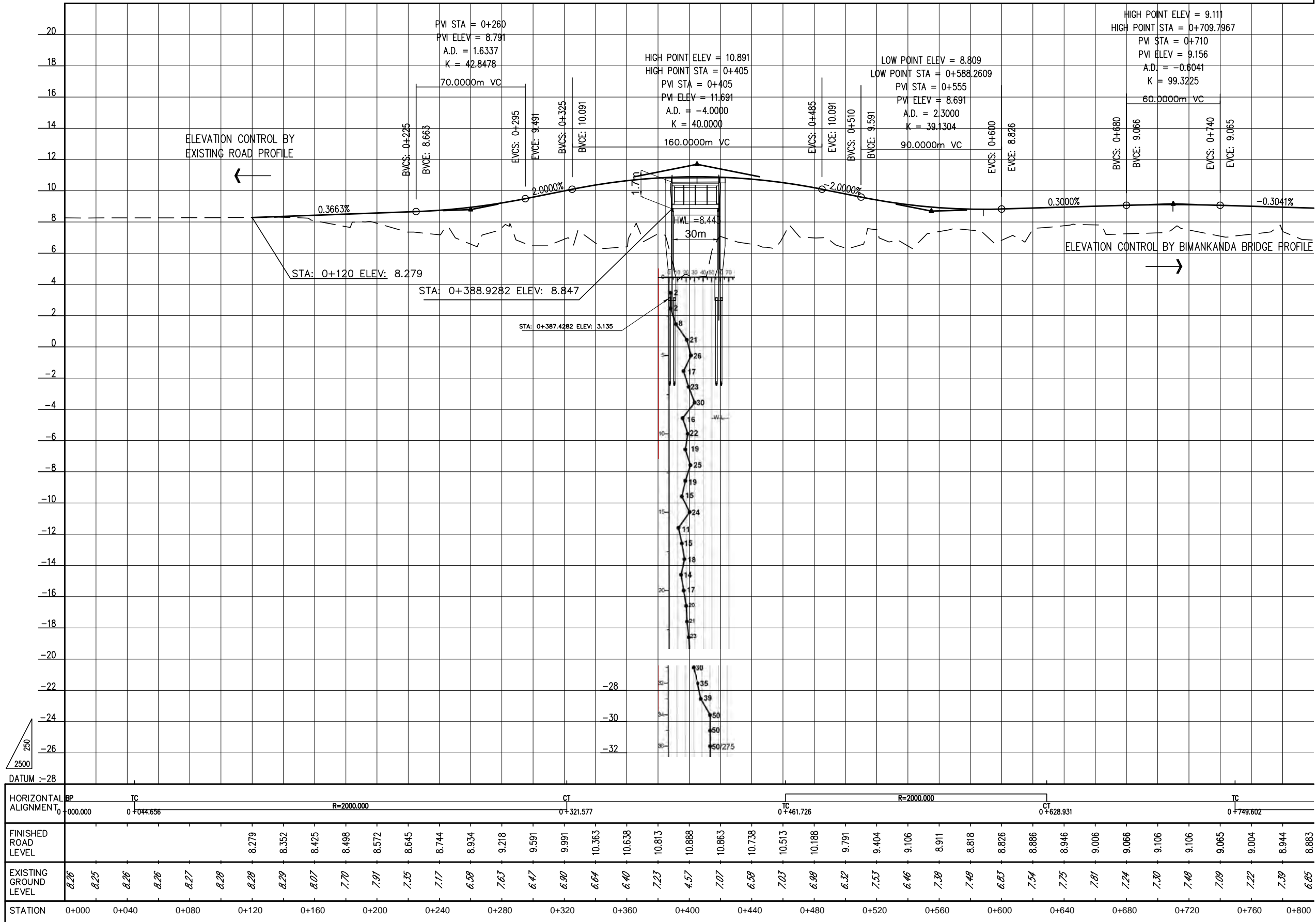


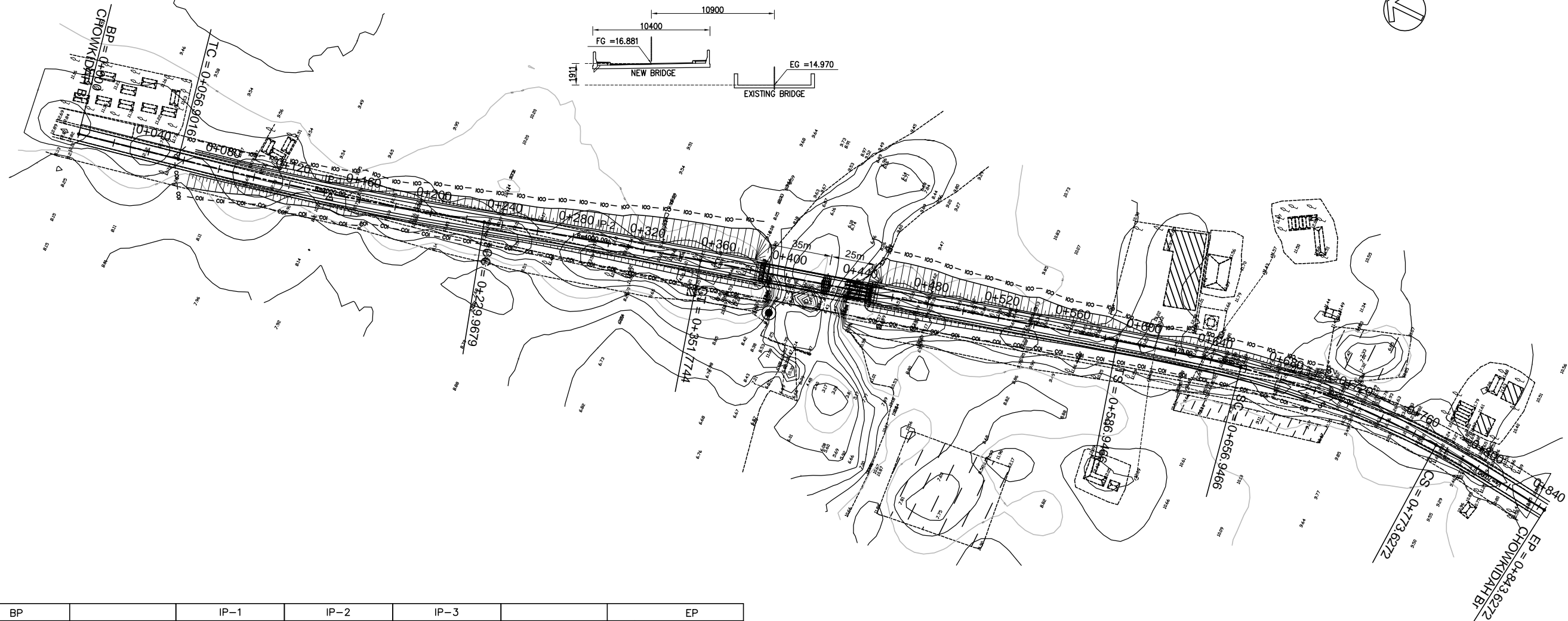
HORIZONTAL ALIGNMENT	0+010.492	R=2000.000	CT	0+254.592	R=2400.000	CT	0+376.785	IC	0+436.207	R=2300.000	CT	0+572.164	0+589.762	R=2000.000	CT	0+716.857																												
FINISHED ROAD LEVEL																																												
EXISTING GROUND LEVEL	38.28	38.19	38.22	38.25	38.27	38.30	38.32	38.19	38.14	38.05	38.29	38.27	38.11	37.96	37.80	37.42	37.14	36.94	37.82	37.50	34.21	37.55	37.33	37.28	37.28	37.28	37.37	37.67	38.10	38.50	38.62	38.65	38.68	38.72	38.76	38.83	38.78	38.82	38.83	38.85	38.47			
STATION	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+320	0+360	0+400	0+440	0+480	0+520	0+560	0+600	0+640	0+680	0+720	0+760	0+800																							



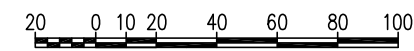
BP			IP-1	IP-2	IP-3	
X	465787.2365	V (Kph)	80	80	80	
Y	602605.8590	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	
STA	0+000	$\Delta$	7°55'59.56"	4°47'24.27"	5°05'53.21"	
		R (m)	2000.0000	2000.0000	2000.0000	
		A				
		TS / TC (m)	138.6823	83.6513	89.0376	
		LC (m)	276.9213	167.2051	177.9578	
		LS (m)				
		L (m)	276.9213	167.2051	177.9578	
		e max (%)				
		PI	E	465964.4092	466324.2138	466611.4185
			N	602558.7127	602514.7376	602454.9562
		TS	E			
			N			
			STA			
		SC/TC /SS/CC	E	465830.3908	466241.1803	466524.2492
			N	602594.3755	602524.8859	602473.1004
			STA	0+044.6561	0+461.7257	0+749.6024
		CS/CT /CC	E	602541.8882	602497.6910	602444.6298
			N	466102.0672	466406.1098	466699.8553
			STA	0+321.5774	0+628.9308	0+927.5601
		ST	E			
			N			
			STA			
104°54'04.70"		AZIMUTH	96°58'05.14"	101°45'29.41"	96°39'36.20"	

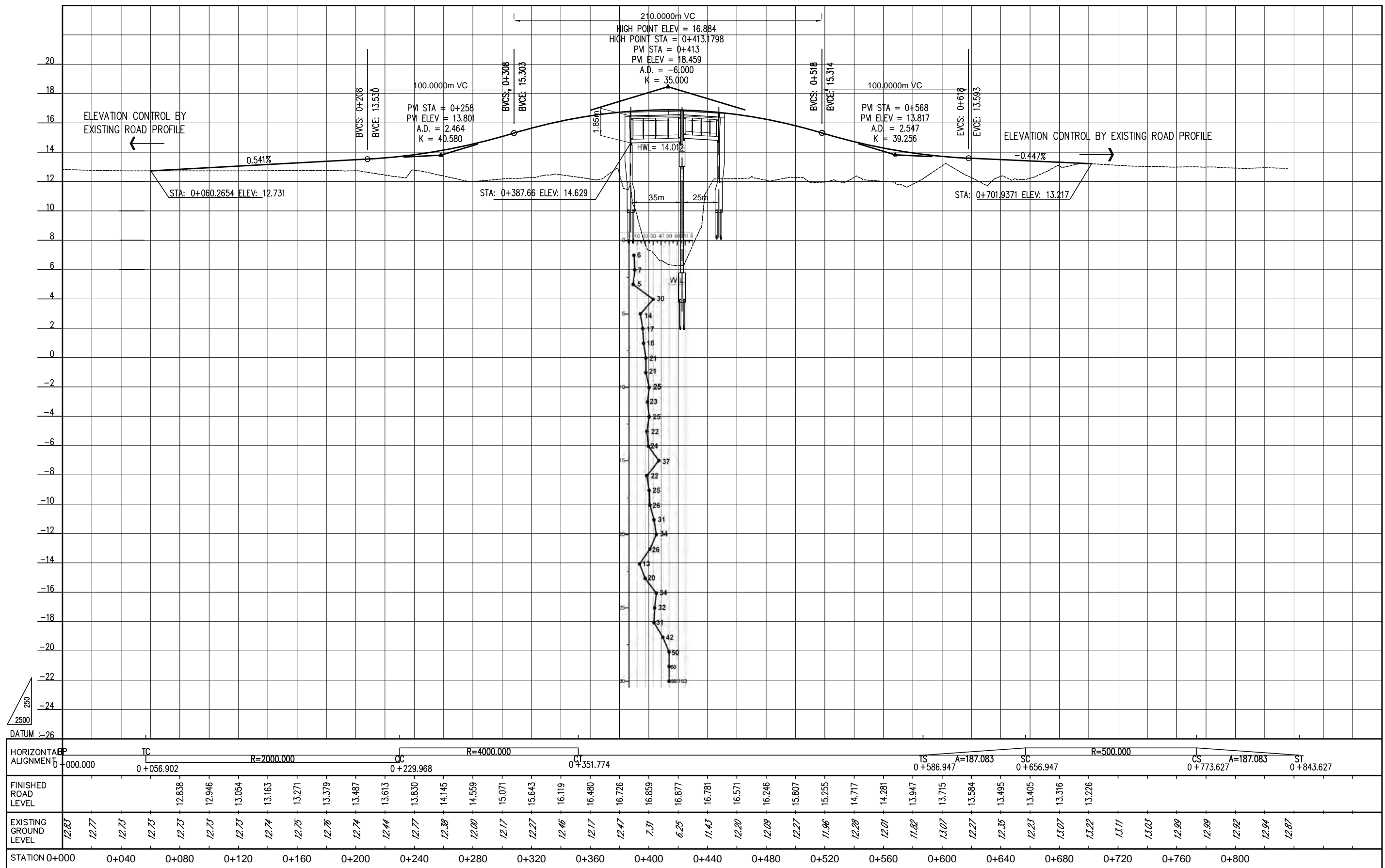


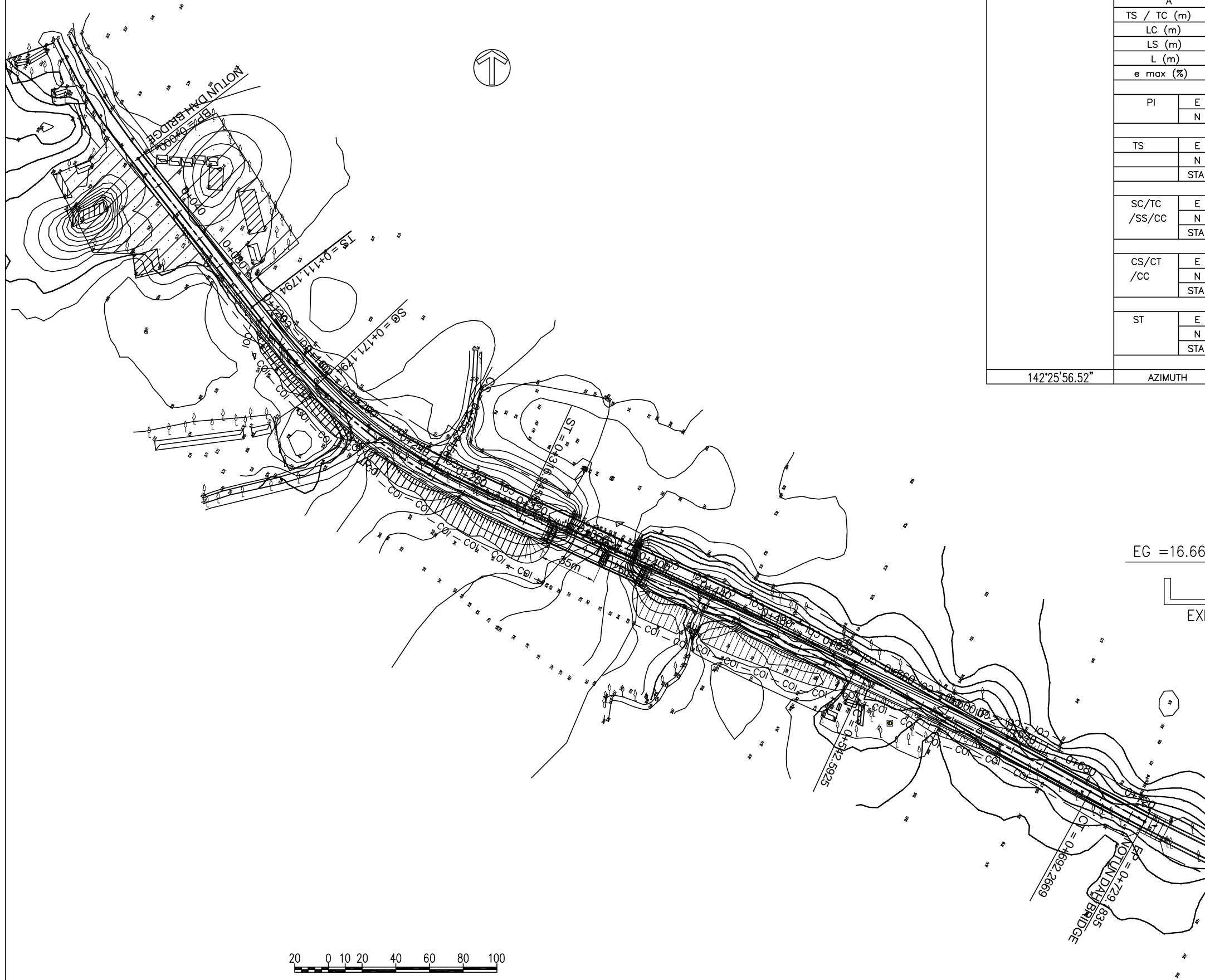




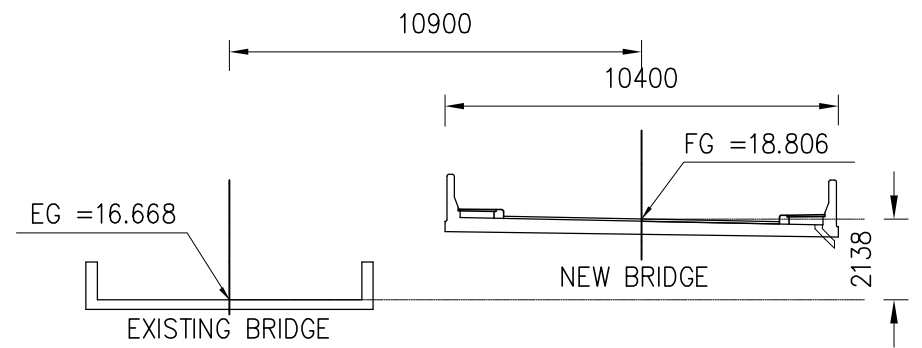
BP		IP-1			IP-2		IP-3		EP		
X	455761.864	V (Kph)		80		80		80		X	455930.383
Y	691297.786	TYPE		FULL CIRCLE		FULL CIRCLE		SPIRAL-CIRCLE-SPIRAL		Y	690476.486
STA	0+000	Δ		4°57'28.74"		1°44'41.10"		21°23'31.28"		STA	0+843.627
		R (m)		2000.000		4000.000		500.000			
		A				187.083		187.083			
		TS / TC (m)		86.587		60.908		129.511   129.511			
		LC (m)		173.066		121.807		116.681			
		LS (m)						70.000   70.000			
		L (m)		173.066		121.807		256.681			
		e max (%)									
		PI		E		455791.342		455834.005		E	
				N		691157.358		691016.168		N	
		TS		E				455910.978		E	
				N				690730.268		N	
				STA				0+586.946		STA	
		SC/TC		E		455773.554		455816.388		E	
		/SS/CC		N		691242.098		691074.472		N	
				STA		0+056.901		0+229.967		STA	
		CS/CT		E		691074.472		690957.354		E	
		/CC		N		455816.388		455849.840		N	
				STA		0+229.967		0+351.774		STA	
		ST		E				455930.383		E	
				N				690476.486		N	
				STA				0+843.627		STA	
	168°08'41.35"	AZIMUTH		163°11'12.61"		164°55'53.71"		186°19'24.98"		AZIMUTH	



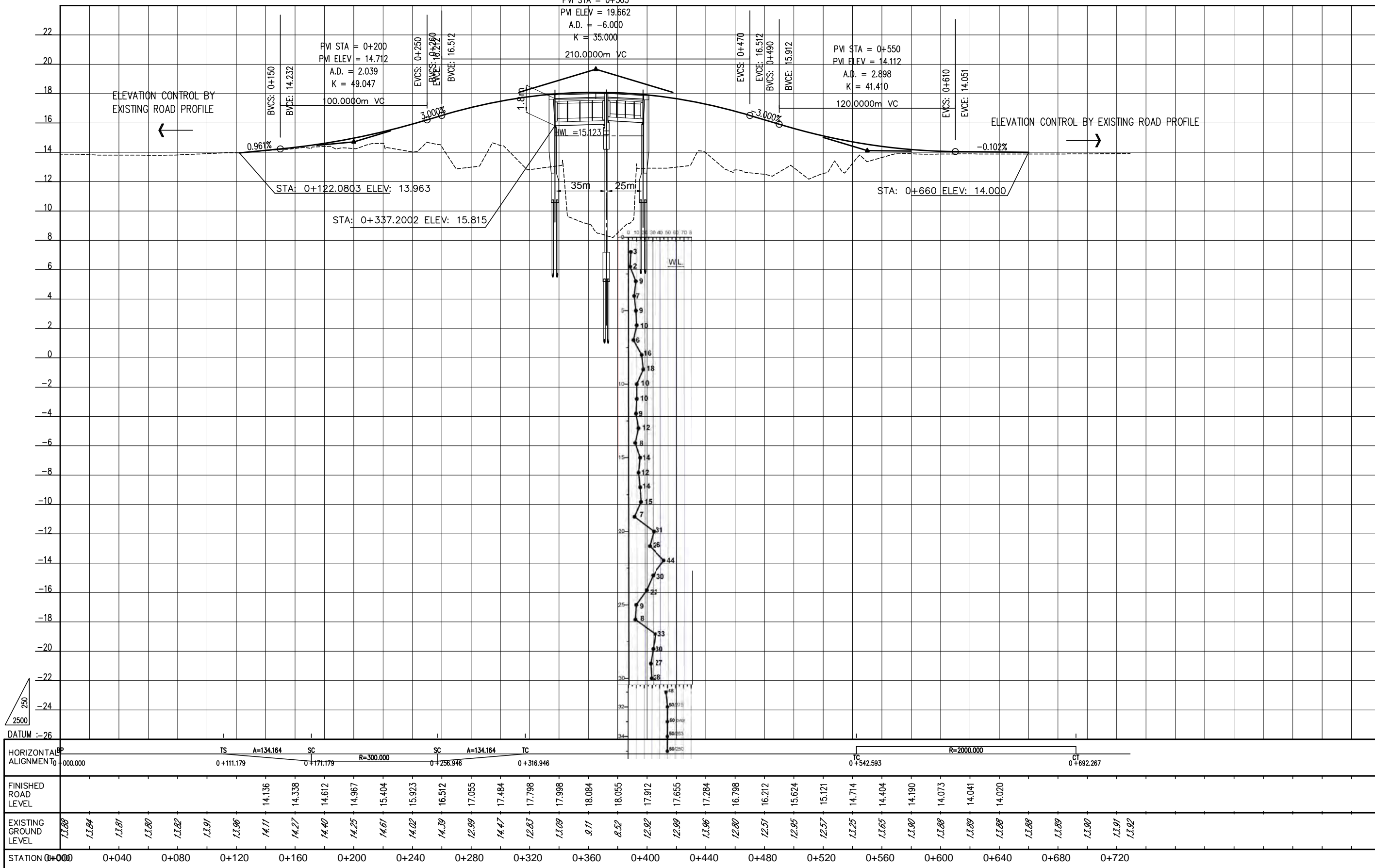


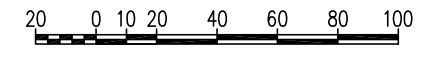
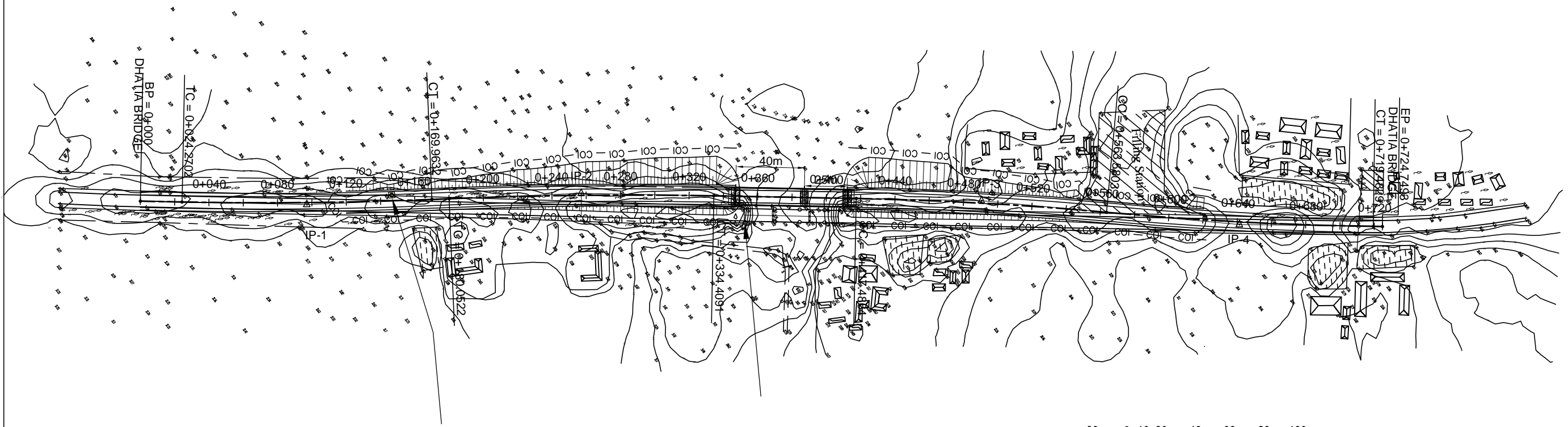


BP		IP-1		IP-2		EP	
X	452980.9011	V (Kph)	65	80	V (Kph)	X	453578.5115
Y	705480.8601	TYPE	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	TYPE	Y	705087.3970
STA	0+000	$\Delta$	27°50'21.59"	4°17'16.28"	$\Delta$	STA	0+729.1835
		R (m)	300.0000	2000.0000	R (m)		
		A	134.1641	134.1641	A		
		TS / TC (m)	104.4657	104.4657	74.8722	TS / TC (m)	
		LC (m)	85.7664		149.6744	LC (m)	
		LS (m)	60.0000	60.0000		LS (m)	
		L (m)	205.7660	149.6744		L (m)	
		e max (%)				e max (%)	
PI	E	453112.3794		453480.6264	E	PI	
	N	705309.9324		705141.3899	N		
TS	E	453048.6870			E	TS	
	N	705392.7354			N		
	STA	0+111.1794			STA		
SC/TC /SS/CC	E	453086.8164		453412.5462	E	SC/TC /CC/SS	
	N	705346.4434		705172.5494	N		
	STA	0+171.1794		0+542.5925	STA		
CS/CT /CC	E	453153.6977		705105.2273	E	CS/CT /CC	
	N	705293.2194		453546.1864	N		
	STA	0+256.9458		0+692.2669	STA		
ST	E	453207.3686			E	ST	
	N	705266.4569			N		
	STA	0+316.9458			STA		
		142°25'56.52"	AZIMUTH	114°35'34.93"	118°52'51.21"	AZIMUTH	

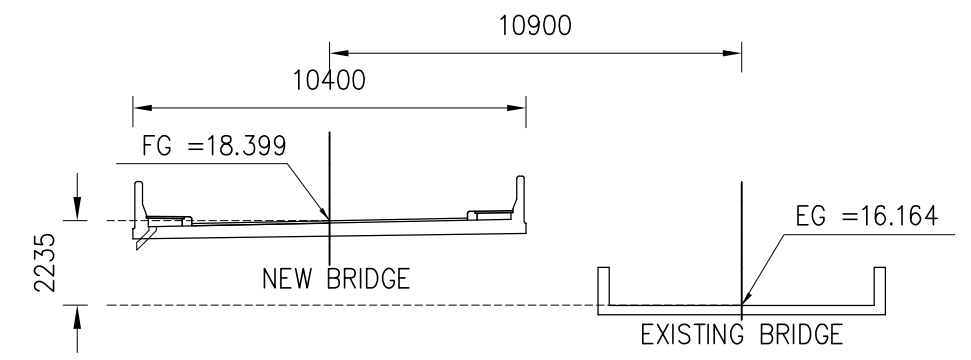


HIGH POINT ELEV = 18.087  
 HIGH POINT STA = 0+365  
 PVI STA = 0+365  
 PVI ELEV = 19.662  
 A.D. = -6.000  
 K = 35.000



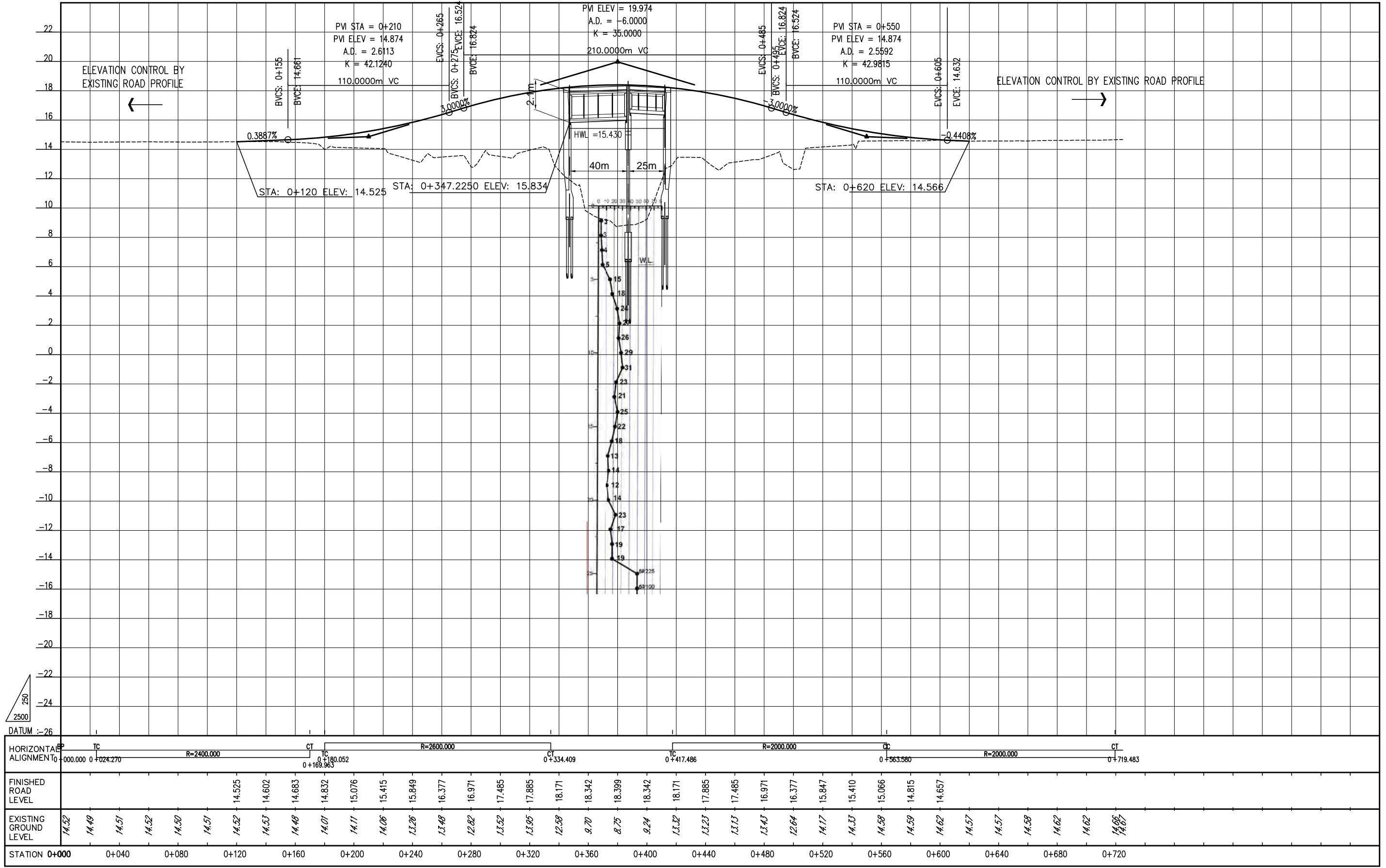


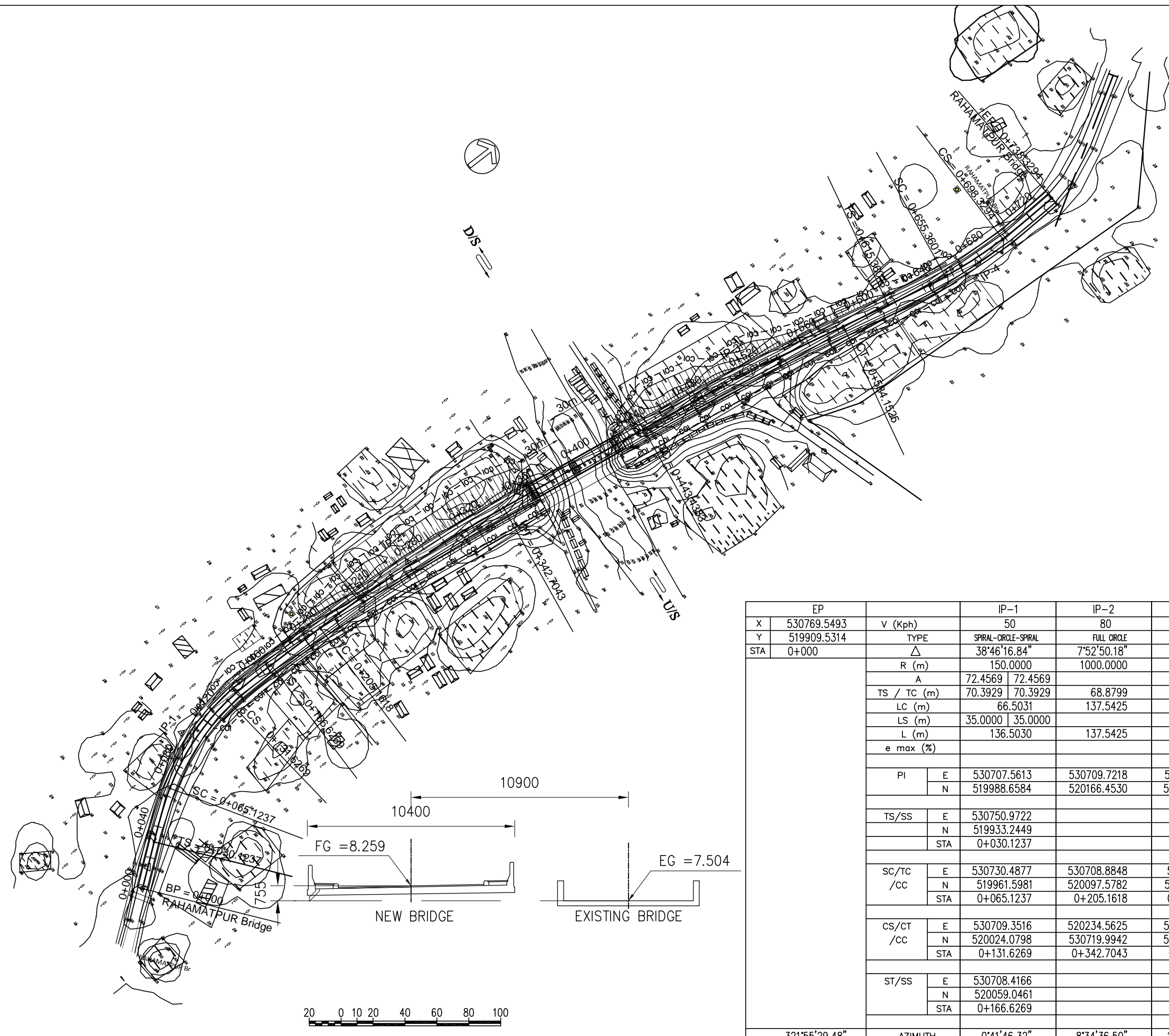
BP		IP-1				IP-2				IP-3				IP-4				EP	
X	450788.7248	V (Kph)		80		80		80		80		V (Kph)		80		X	450869.9170		
Y	710700.0000	TYPE		FULL CIRCLE		FULL CIRCLE		FULL CIRCLE		FULL CIRCLE		TYPE		FULL CIRCLE		Y	711419.7332		
STA	0+000	R (m)		2400.0000		2600.0000		2000.0000		2000.0000		R (m)		2000.0000		STA	0+724.7493		
		A										A							
		TS / TC (m)		72.8689		77.2011		73.0795		77.9908		TS / TC (m)		72.8689					
		LC (m)		145.6930		154.3569		146.0940		155.9026		LC (m)		145.6930					
		LS (m)										LS (m)							
		L (m)		145.6930		154.3569		146.0940		155.9026		L (m)		145.6930					
		e max (%)										e max (%)							
		PI		E		450799.5771		450807.7813		450833.5418		450861.1321		E		PI			
				N		710796.5310		710956.4797		711188.4114		711336.9408		N					
		TS		E										E		TS			
				N										N					
				STA										STA					
		SC/TC		E		450791.4363		450803.8267		450825.4746		450846.8885		E		SC/TC			
				N		710724.1183		710879.3799		711115.7785		711260.2617		N		/CC/SS			
				STA		0+024.2702		0+180.0522		0+417.4864		0+563.5803		STA					
		CS/CT		E		710869.3042		711033.2090		711260.2617		711414.4962		E		CS/CT			
				N		450803.3099		450816.3036		450846.8885		450869.3613		N		/CC			
				STA		0+169.9632		0+334.4091		0+563.5803		0+719.4829		STA					
		ST		E										E		ST			
				N										N					
				STA										STA					
6°24'52.03"		AZIMUTH		2°56'10.63"		6°20'16.17"		10°31'23.19"		6°03'24.59"		AZIMUTH							



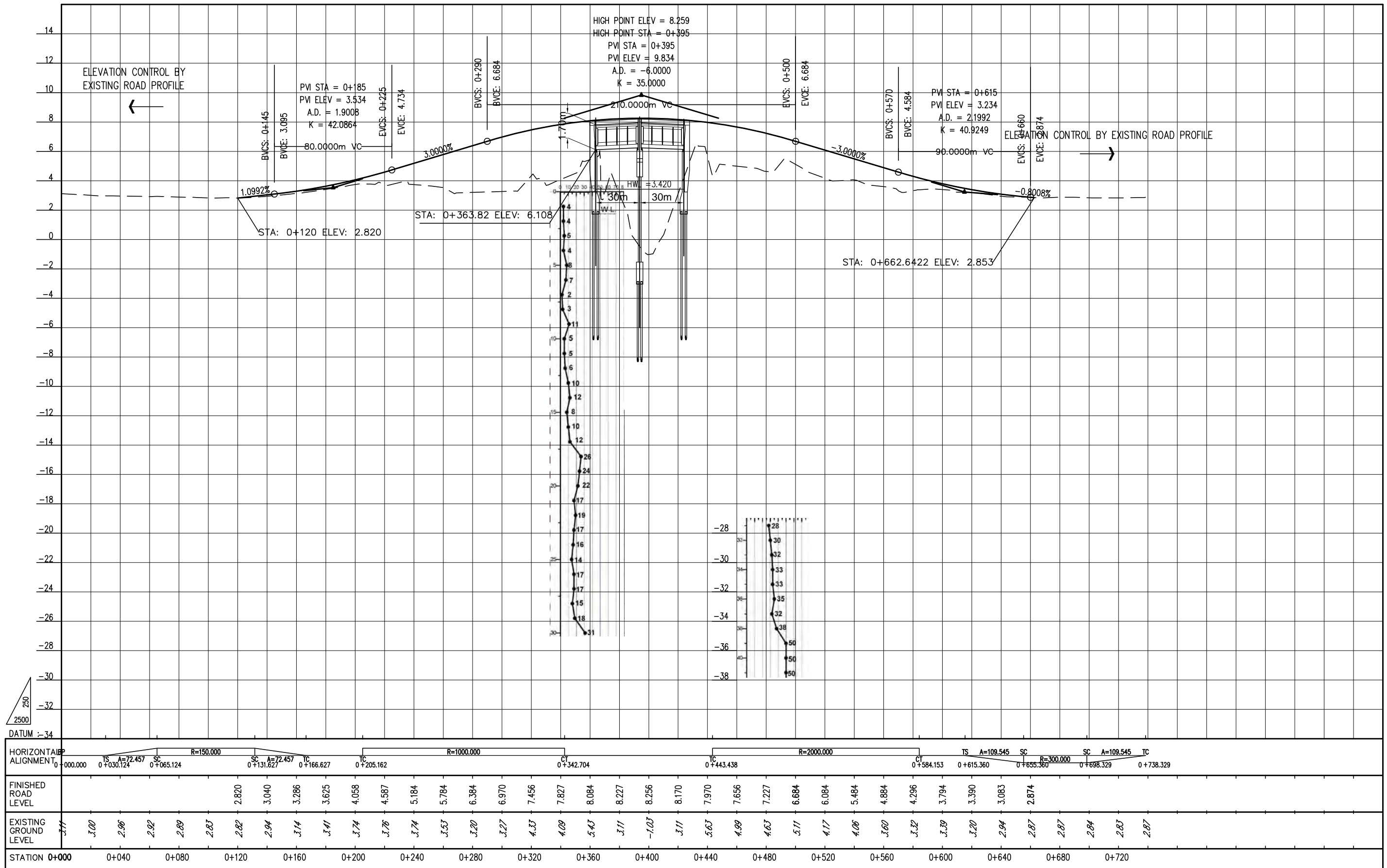


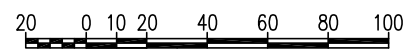
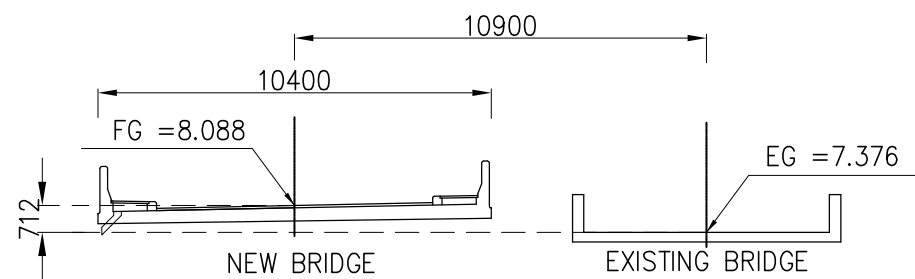
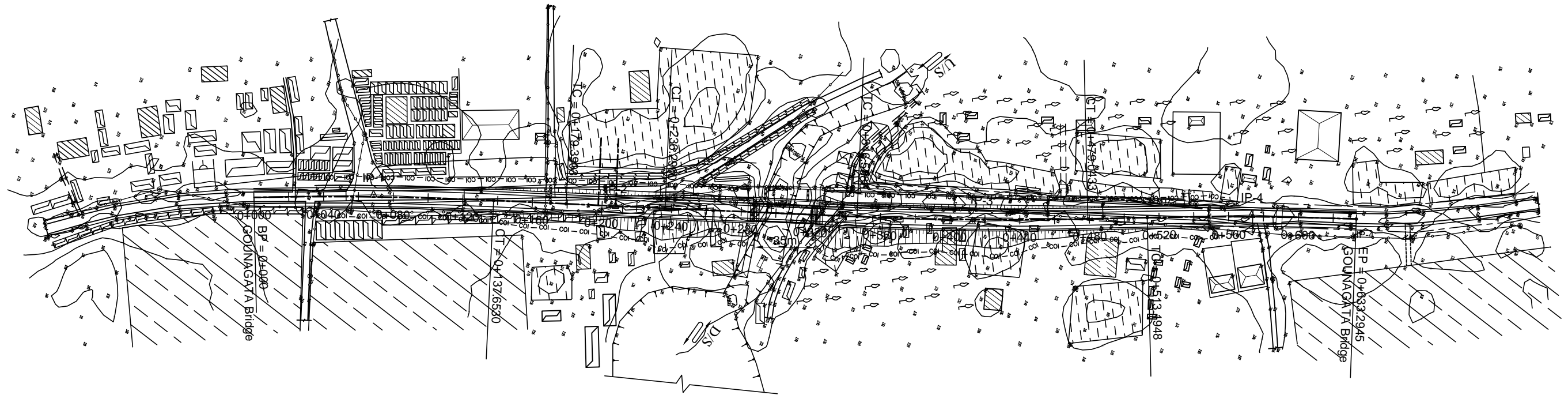
HIGH POINT ELEV = 18.399  
 HIGH POINT STA = 0+380  
 PVI STA = 0+380





EP		IP-1		IP-2		IP-3		IP-4		BP	
X	530769.5493	50		80		80		60		X	530777.6855
Y	519909.5314	TYPE		FULL CIRCLE		FULL CIRCLE		SPIRAL-CIRCLE-SPIRAL		Y	520624.8828
STA	0+000	38°46'16.84"		7°52'50.18"		4°01'52.19"		15°50'45.50"		STA	0+738.3294
		R (m)		1000.0000		2000.0000		300.0000			
		A		72.4569		72.4569		109.5445		109.5445	
		TS / TC (m)		70.3929		70.3929		68.8799		70.3861	
		LC (m)		66.5031		137.5425		140.7142		42.9693	
		LS (m)		35.0000		35.0000		40.0000		40.0000	
		L (m)		136.5030		137.5425		140.7142		122.9690	
		e max (%)								e max (%)	
		PI		E 530707.5613		530709.7218		530745.5142		530781.1750	
		N		519988.6584		520166.4530		520403.7690		520563.2023	
		TS/SS		E 530750.9722				530767.6899		E TS/SS	
		N		519933.2449				520502.9130		N	
		STA		0+030.1237				0+615.3601		STA	
		SC/TC /CC		E 530730.4877		530708.8848		530735.0171		E SC/TC /CC	
		N		519961.5981		520097.5782		520334.1700		N	
		STA		0+065.1237		0+205.1618		0+443.4383		0+655.3601	
		CS/CT /CC		E 530709.3516		520234.5625		520472.4579		E CS/CT /CC	
		N		520024.0798		530719.9942		530760.8780		N	
		STA		0+131.6269		0+342.7043		0+584.1525		0+698.3294	
		ST/SS		E 530708.4166				530777.6855		E ST/SS	
		N		520059.0461				520624.8828		N	
		STA		0+166.6269				0+738.3294		STA	
		321°55'29.48"		AZIMUTH		0°41'46.32"		8°34'36.50"		12°36'28.69"	
								356°45'43.19"		AZIMUTH	





BP		IP-1	IP-2	IP-3	IP-4	EP			
X	523038.7976	V (Kph)	80	80	80	80	V (Kph)	X	523131.7066
Y	540154.1534	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE	Y	540780.4094
STA	0+000	$\Delta$	3°56'36.49"	0°13'02.43"	3°47'40.37"	3°26'26.17"	$\Delta$	STA	0+633.2945
		R (m)	2000.0000	15000.0000	2000.0000	2000.0000	R (m)		
		A					A		
		TS / TC (m)	68.8537	28.4499	66.2516	60.0679	TS / TC (m)		
		LC (m)	137.6530	56.8997	132.4547	120.0997	LC (m)		
		LS (m)					LS (m)		
		L (m)	137.6530	56.8997	132.4547	120.0997	L (m)		
		e max (%)					e max (%)		
		PI	E 523046.0719	523070.2352	523105.0951	523121.8580	E	PI	
			N 540222.6218	540359.5469	540561.5613	540721.1544	N		
		TS/SS	E				E	TS/SS	
			N				N		
		STA					STA		
		SC/TC /cc	E 523038.7976	523065.2910	523093.8291	523115.5833	E	SC/TC /cc	
			N 540154.1534	540331.5300	540496.2746	540661.4151	N		
			STA 0+000	0+179.3903	0+346.5886	0+513.1948	STA		
		CS/CT /cc	E 540290.4278	540387.5825	540627.4504	540780.4094	E	CS/CT /cc	
			N 523058.0377	523075.0730	523112.0158	523131.7066	N		
			STA 0+137.6530	0+236.2900	0+479.0433	0+633.2945	STA		
		ST/SS	E				E	ST/SS	
			N				N		
			STA				STA		
		AZIMUTH	6°03'52.24"	10°00'28.73"	9°47'26.30"	5°59'45.93"	9°26'12.10"	AZIMUTH	



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT (RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
KATAHIRA & ENGINEERS INTERNATIONAL



No

REVISION

DATE

PREPARATORY SURVEY ON WESTERN BANGLADESH  
BRIDGES IMPROVEMENT PROJECT

PLAN OF GOUNAGATA BRIDGE (N8\_127b)  
RANK : 50, SN : 57, ZONE : BARISAL, BRIDGE TYPE : PCG

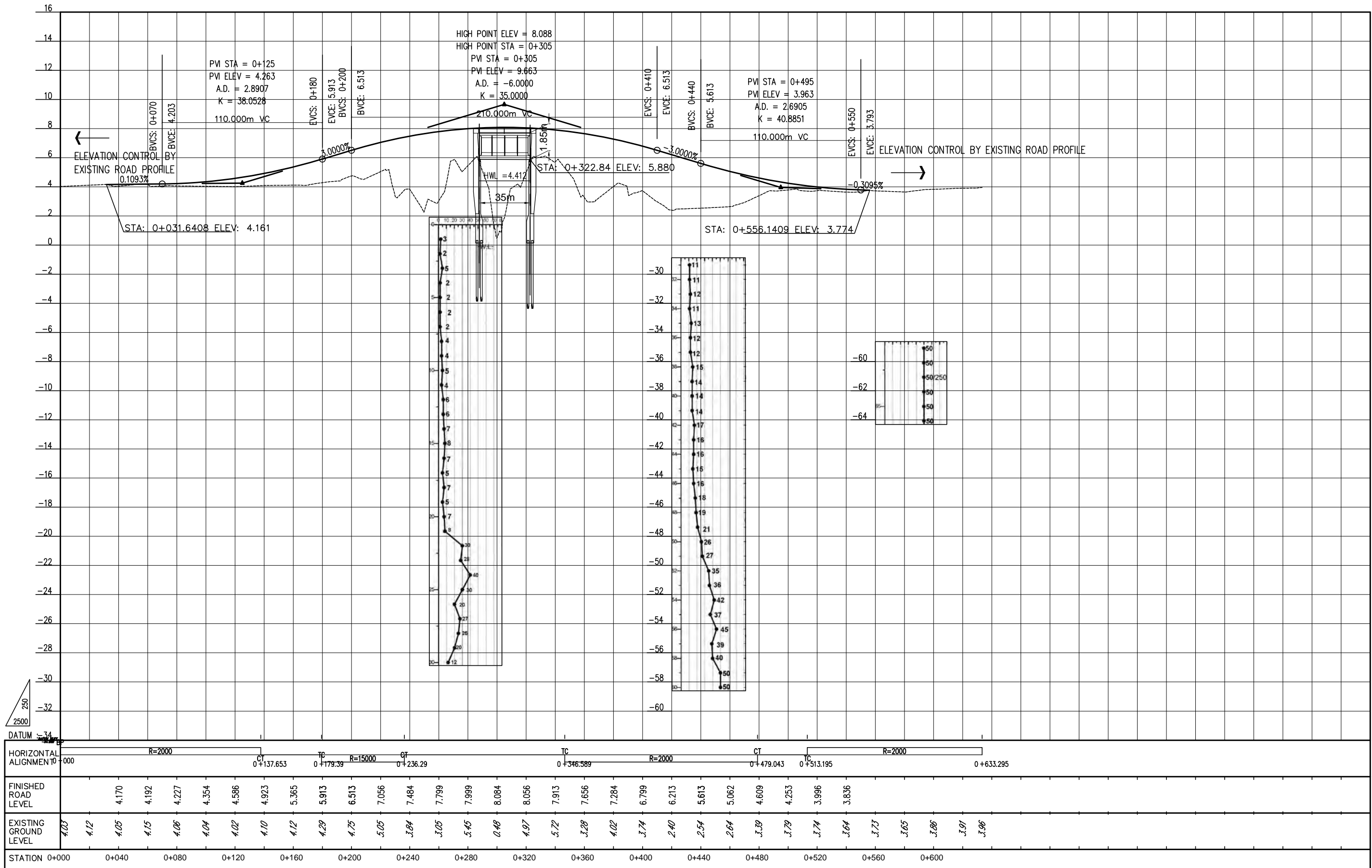
DESIGNED BY:

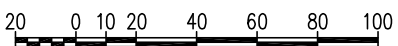
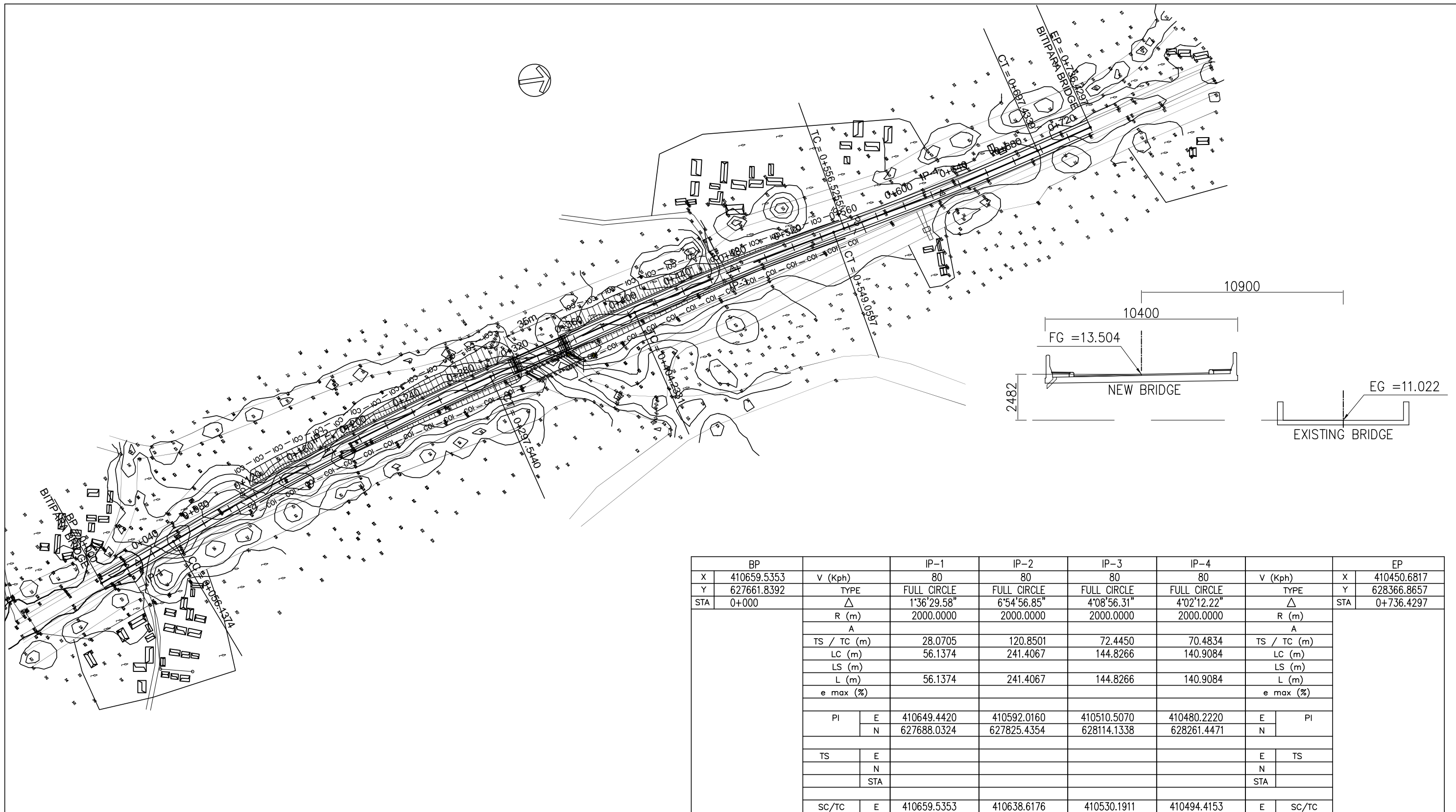
CHECKED BY:

APPROVED BY:

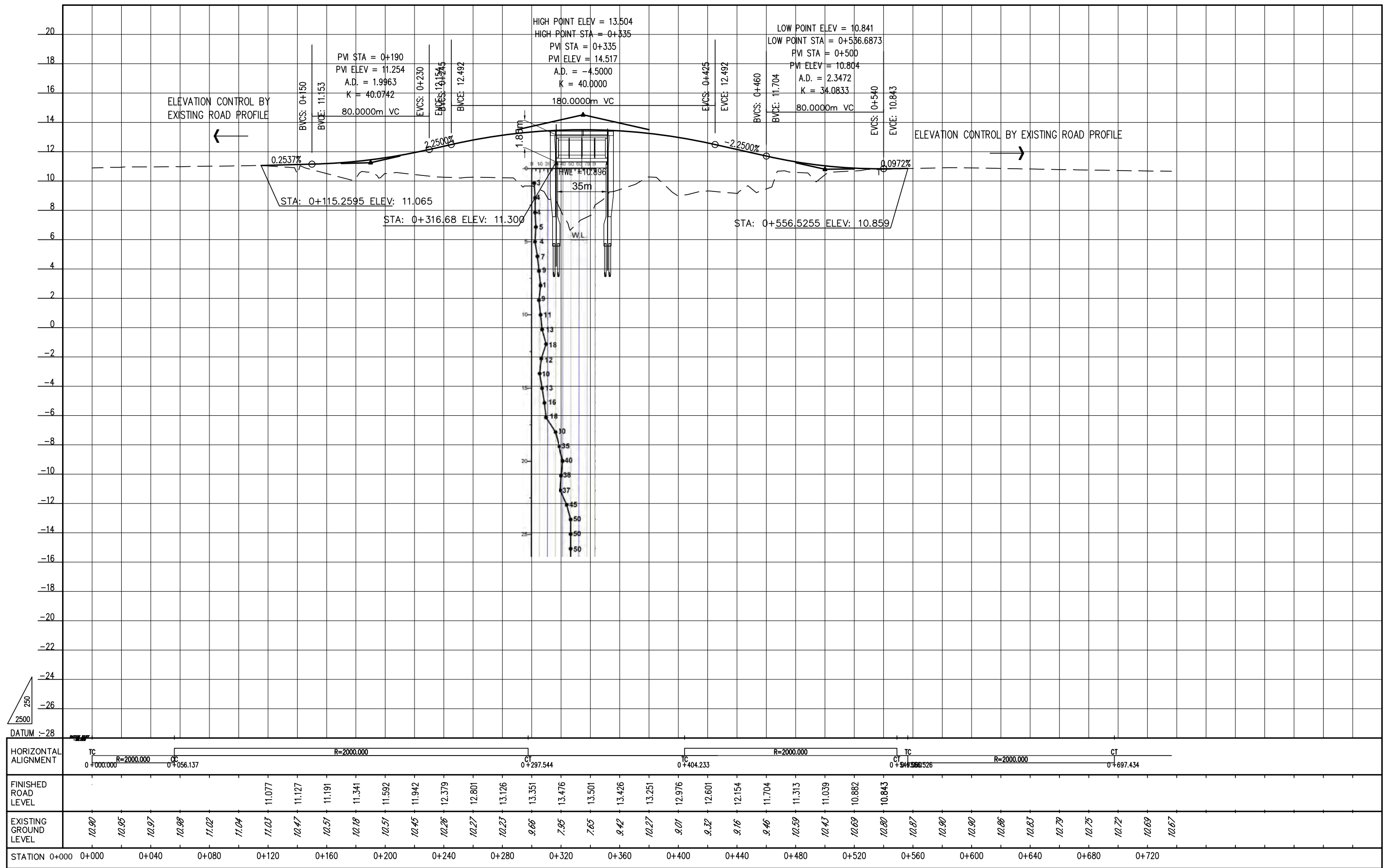
DWG. NO.

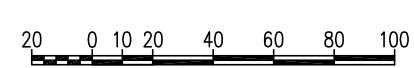
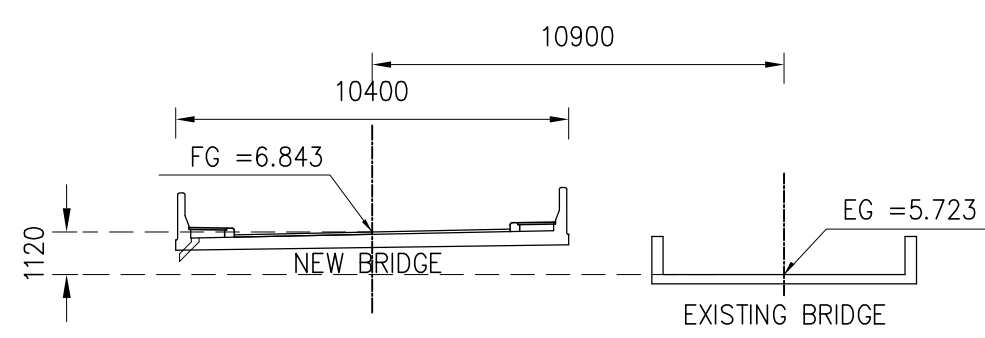
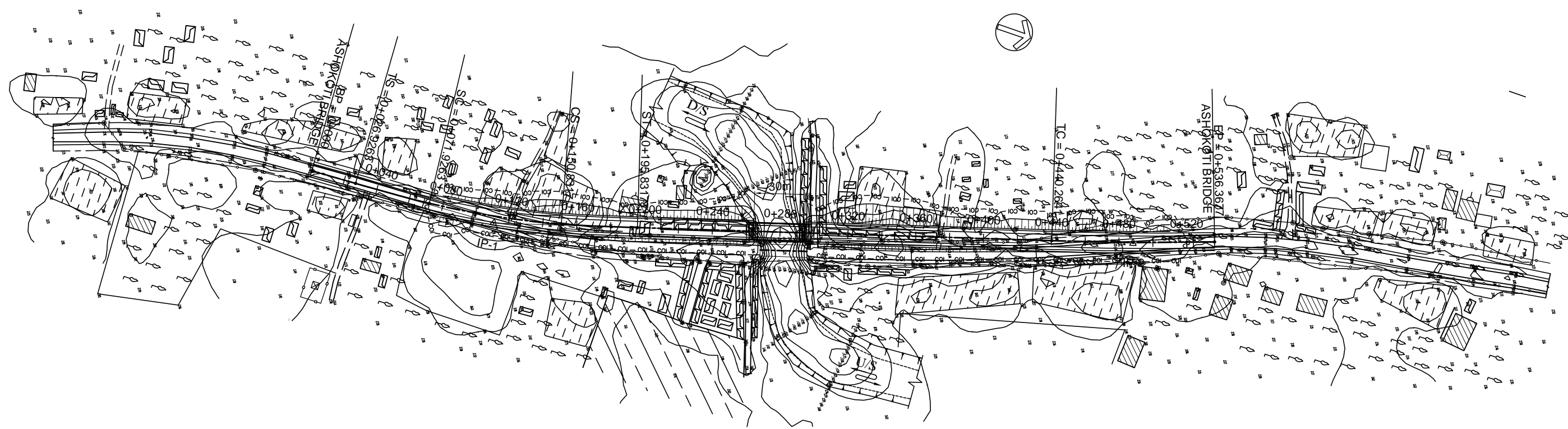
BR 050-1





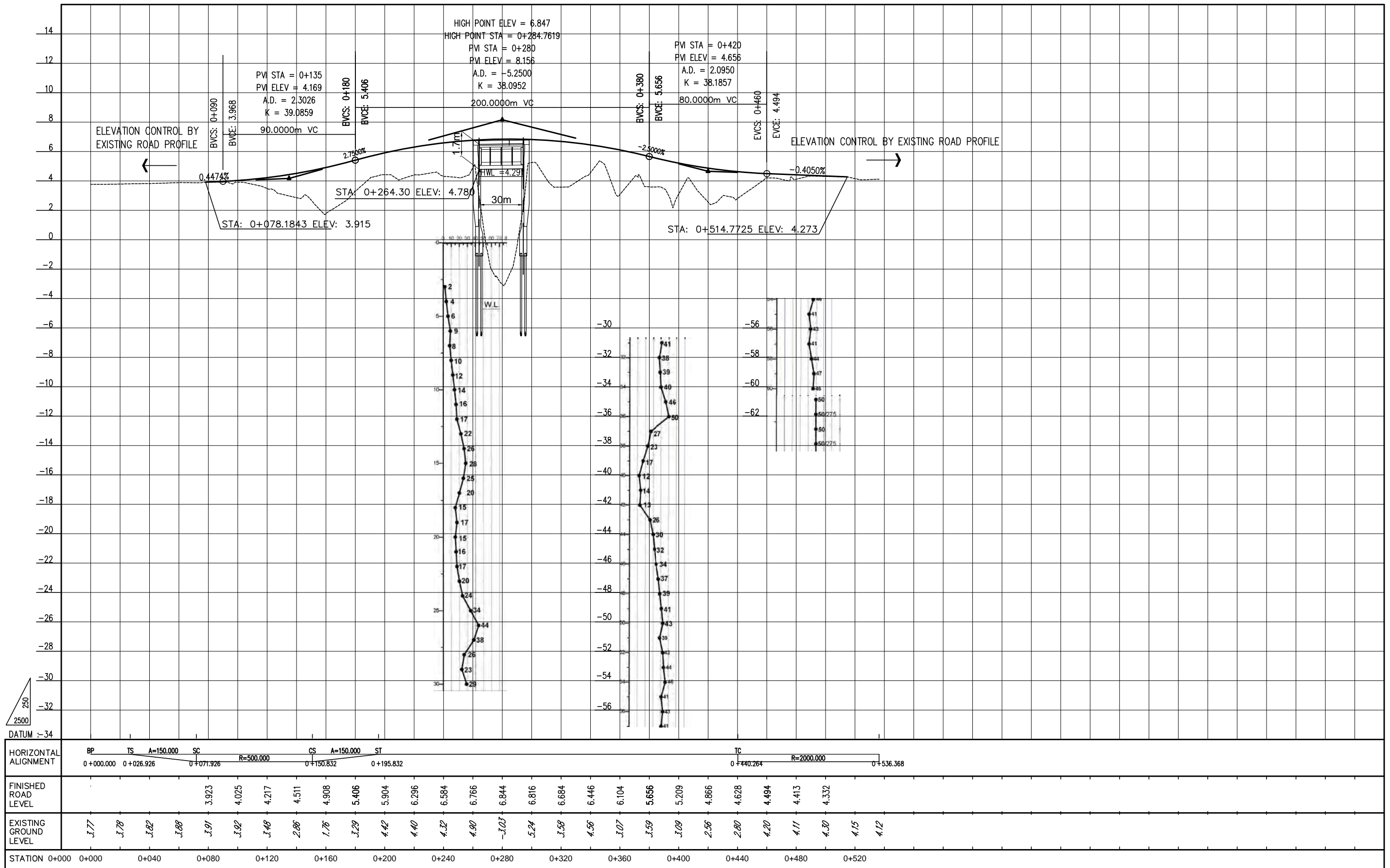
BP			IP-1	IP-2	IP-3	IP-4		EP	
X	410659.5353	V (Kph)	80	80	80	80	V (Kph)	X	410450.6817
Y	627661.8392	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE	Y	628366.8657
STA	0+000	$\Delta$	1°36'29.58"	6°54'56.85"	4°08'56.31"	4°02'12.22"	$\Delta$	STA	0+736.4297
		R (m)	2000.0000	2000.0000	2000.0000	2000.0000	R (m)		
		A					A		
		TS / TC (m)	28.0705	120.8501	72.4450	70.4834	TS / TC (m)		
		LC (m)	56.1374	241.4067	144.8266	140.9084	LC (m)		
		LS (m)					LS (m)		
		L (m)	56.1374	241.4067	144.8266	140.9084	L (m)		
		e max (%)					e max (%)		
		PI					PI		
		E	410649.4420	410592.0160	410510.5070	410480.2220	E		
		N	627688.0324	627825.4354	628114.1338	628261.4471	N		
		TS					TS		
		N					N		
		STA					STA		
		SC/TC /SS/CC					SC/TC /CC/SS		
		E	410659.5353	410638.6176	410530.1911	410494.4153	E		
		N	627661.8392	627713.9319	628044.4143	628192.4076	N		
		STA	0+000	0+056.1374	0+404.2331	0+556.5255	STA		
		CS/CT /CC					CS/CT /CC		
		E	627713.9319	627941.7390	628185.0947	628329.3162	E		
		N	410638.6176	410559.1797	410495.9187	410461.2038	N		
		STA	0+056.1374	0+297.5440	0+549.0597	0+697.4339	STA		
		ST					ST		
		E					E		
		N					N		
		STA					STA		
		338°55'34.71"	AZIMUTH	337°19'05.13"	344°14'01.98"	348°22'58.30"	344°20'46.08"	AZIMUTH	

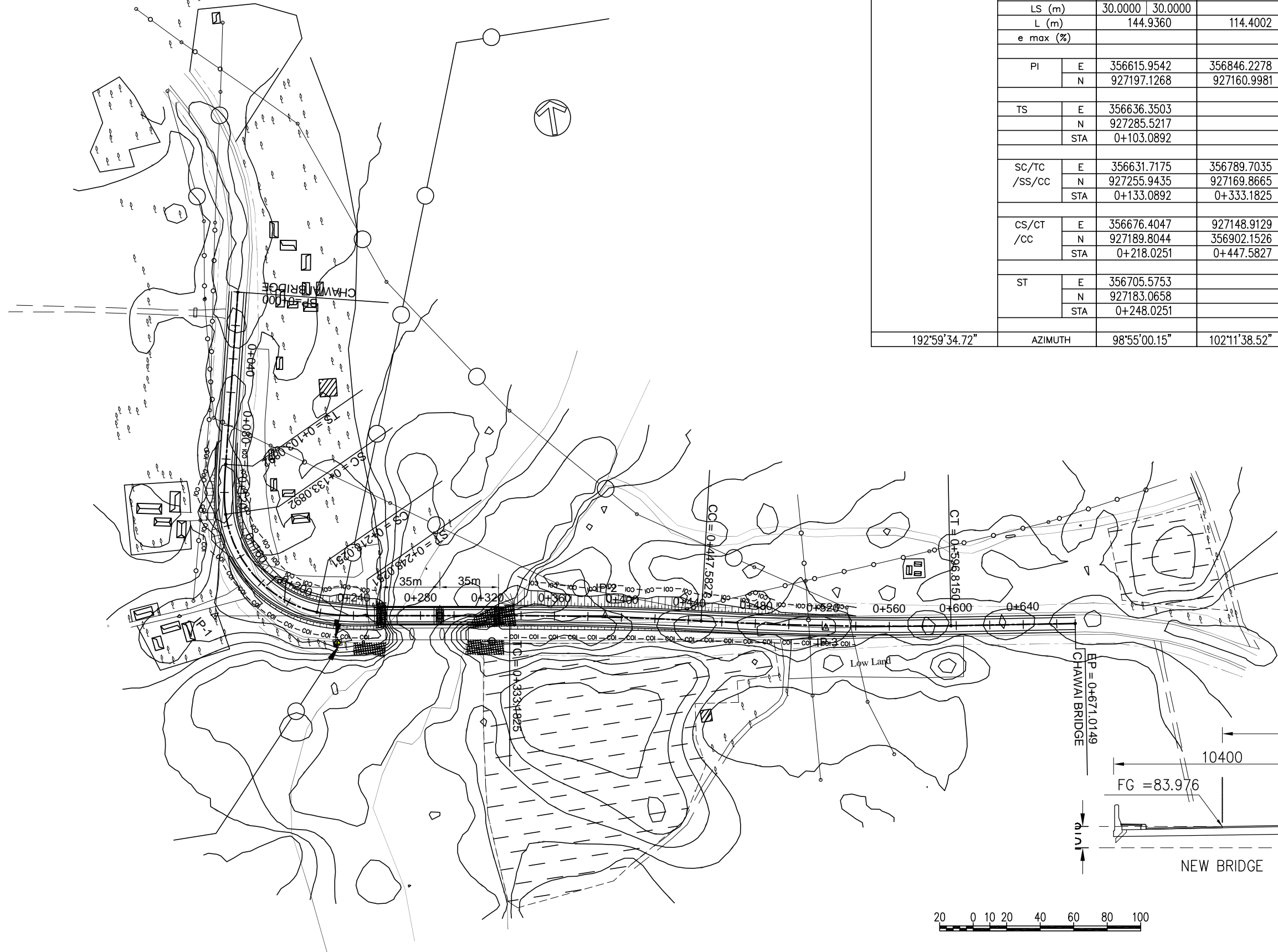




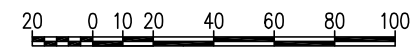
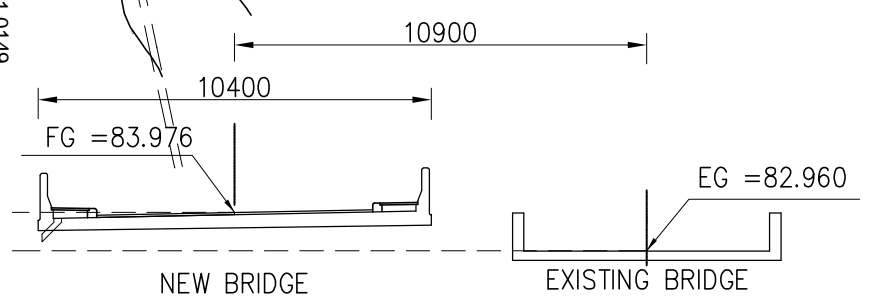
BP		IP-1		IP-2		EP	
X	523376.1895	V (Kph)	80	80	V (Kph)	X	523240.9763
Y	538843.0886	TYPE	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	TYPE	Y	539359.8774
STA	0+000	$\Delta$	14°11'54.68"	2°45'11.39"	$\Delta$	STA	0+536.3677
		R (m)	500.0000	2000.0000	R (m)		
		A	150.0000	150.0000	A		
		TS / TC (m)	84.7912	84.7912	48.0610	TS / TC (m)	
		LC (m)	78.9055	96.1036	LC (m)		
		LS (m)	45.0000	45.0000	LS (m)		
		L (m)	168.9060	96.1036	L (m)		
		e max (%)			e max (%)		
		PI	E 523370.0385	523257.4992	E	PI	
			N 538954.6367	539314.7458	N		
		TS	E 523374.7070		E	TS	
			N 538869.9740		N		
		STA	0+026.9263		STA		
		SC/TC /SS/CC	E 523371.5559	523271.8352	E	SC/TC /CC/SS	
			N 538914.8595	539268.8727	N		
			STA 0+071.9263	0+440.2641	STA		
		CS/CT /CC	E 523357.5223	539359.8774	E	CS/CT /CC	
			N 538992.4238	523240.9763	N		
			STA 0+150.8317	0+536.3677	STA		
		ST	E 523344.7463		E	ST	
			N 539035.5679		N		
			STA 0+195.8317		STA		
		AZIMUTH	356°50'37.52"	342°38'42.84"	339°53'31.45"	AZIMUTH	

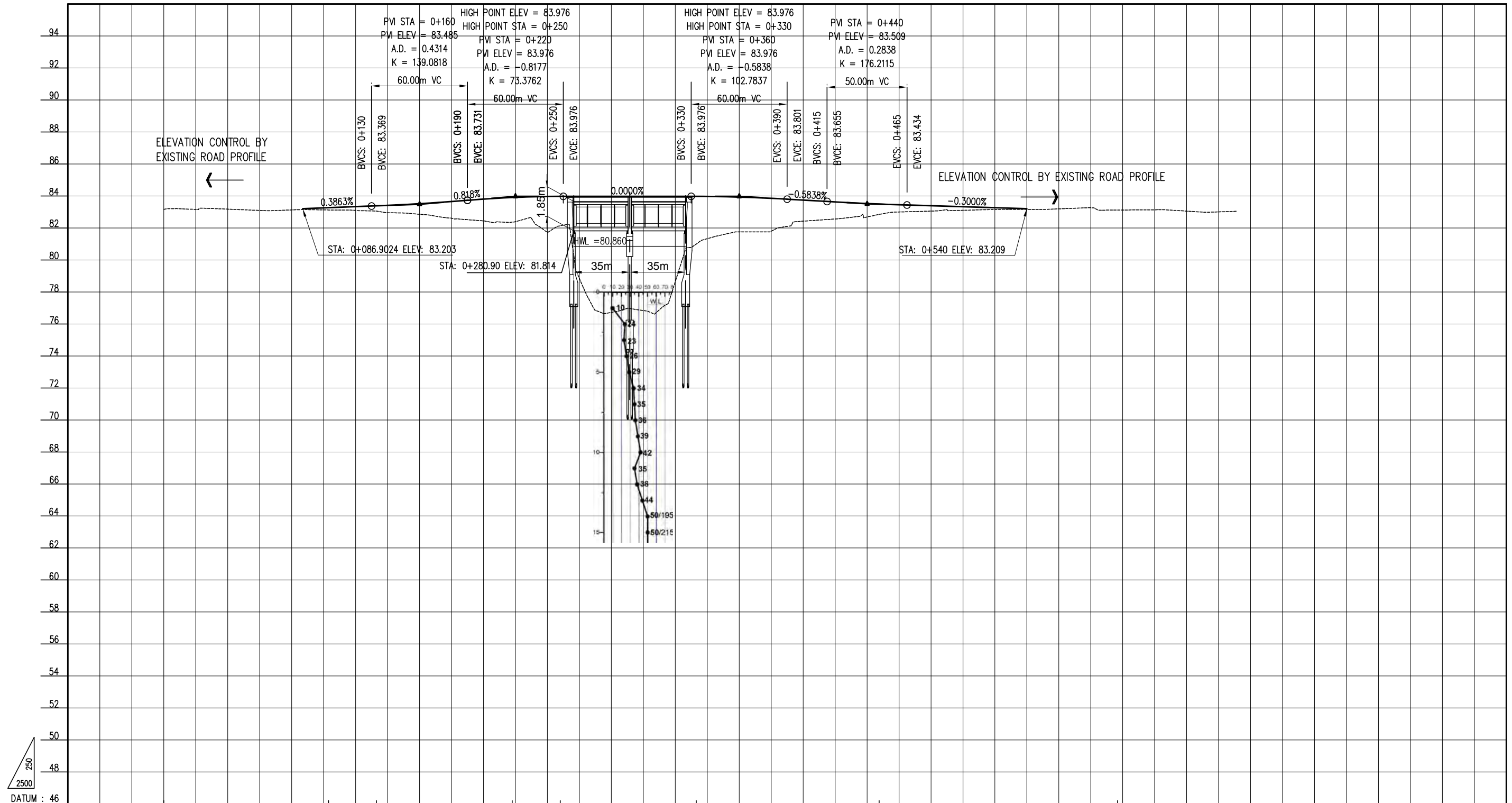




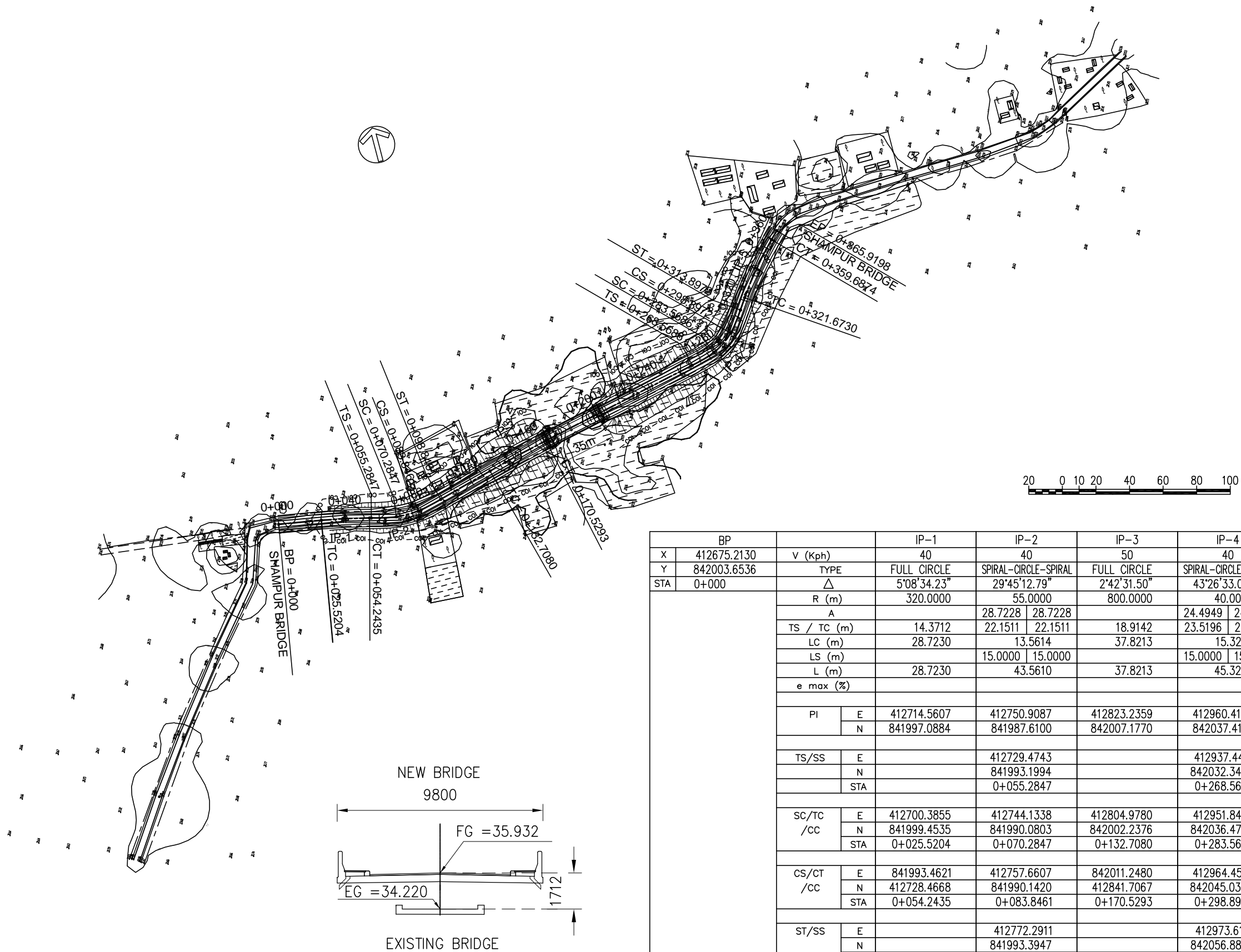


BP		IP-1		IP-2		IP-3		EP		
X	356659.5281	V (Kph)	40	80	80	V (Kph)	X	357122.5504		
Y	927385.9716	TYPE	SPIRAL-CIRCLE-SPIRAL		FULL CIRCLE		FULL CIRCLE		Y	927112.6377
STA	0+000	Δ	94°04'34.57"		3°16'38.37"		4°16'30.69"		STA	0+671.0149
		R (m)	70.0000		2000.0000		2000.0000			
		A	45.8258	45.8258						
		TS / TC (m)	90.7174	90.7174	57.2157			74.6508		
		LC (m)	84.9358		114.4002		149.2323			
		LS (m)	30.0000		30.0000					
		L (m)	144.9360		114.4002		149.2323			
		e max (%)								
		PI	E	356615.9542	356846.2278	356975.1191	E	PI		
			N	927197.1268	927160.9981	927133.1449	N			
		TS	E	356636.3503			E	TS		
			N	927285.5217			N			
			STA	0+103.0892			STA			
		SC/TC /SS/CC	E	356631.7175	356789.7035	356902.1526	E	SC/TC /CC/SS		
			N	927255.9435	927169.8665	927148.9129	N			
			STA	0+133.0892	0+333.1825	0+447.5827	STA			
		CS/CT /CC	E	356676.4047	927148.9129	927122.8602	E	CS/CT /CC		
			N	927189.8044	356902.1526	357049.0581	N			
			STA	0+218.0251	0+447.5827	0+596.8150	STA			
		ST	E	356705.5753			E	ST		
			N	927183.0658			N			
			STA	0+248.0251			STA			
		192°59'34.72"	AZIMUTH	98°55'00.15"	102°11'38.52"	97°55'07.83"	AZIMUTH			

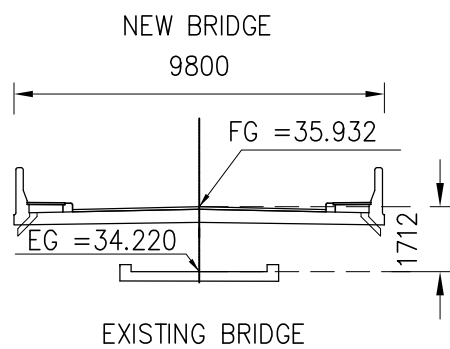


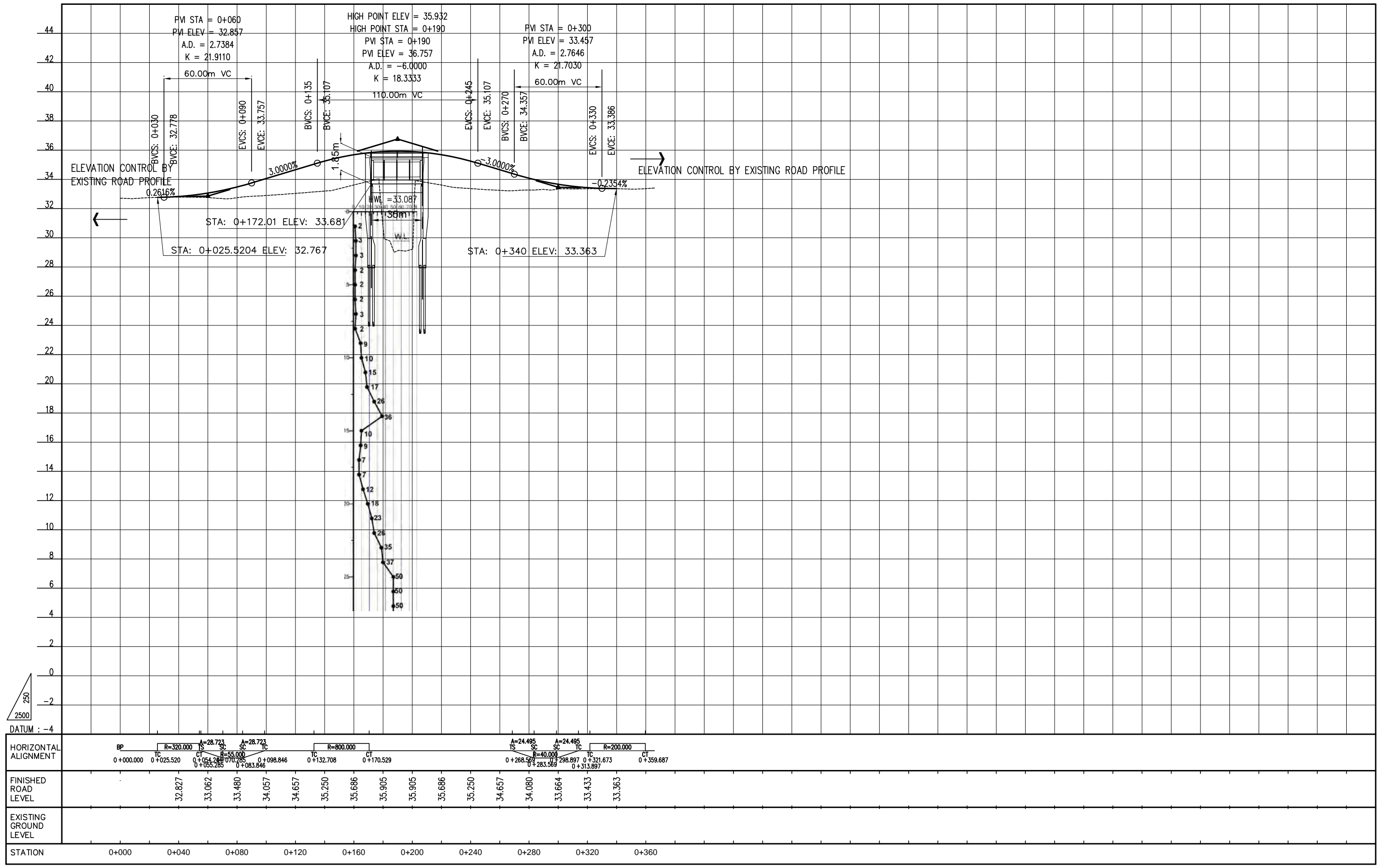


HORIZONTAL ALIGNMENT	BP	TS A=45.826 SC	R=70.000	CS A=45.826 ST	R=2000.000	CT
	0+000.000	0+103.089 0+133.089		0+218.025 0+248.025	0+333.183 0+447.583	0+596.815
FINISHED ROAD LEVEL		83.254 83.331 83.412 83.518 83.653 83.806 83.915 83.969 83.976 83.976 83.976 83.971 83.932 83.854 83.742 83.626 83.527 83.450 83.389 83.329 83.269				
EXISTING GROUND LEVEL	83.16 83.16 83.18 83.10 83.13 83.13 83.10 82.96 82.86 82.81 82.44 82.39 81.73 78.86 78.72 78.84 78.64 81.33 81.75 81.79 82.42 82.36 82.89 83.00 83.06 83.11 83.16 83.16 83.19 83.26 83.12 83.14 83.05 83.01 83.04					
STATION	0+000 0+040 0+080 0+120 0+160 0+200 0+240 0+280 0+320 0+360 0+400 0+440 0+480 0+520 0+560 0+600 0+640 0+680					



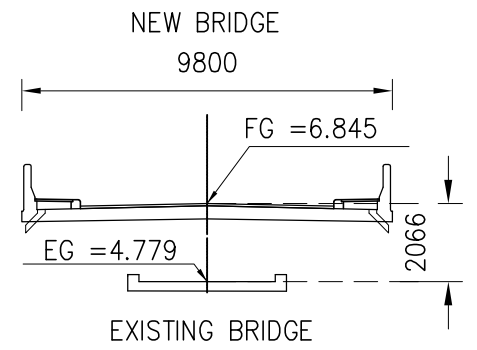
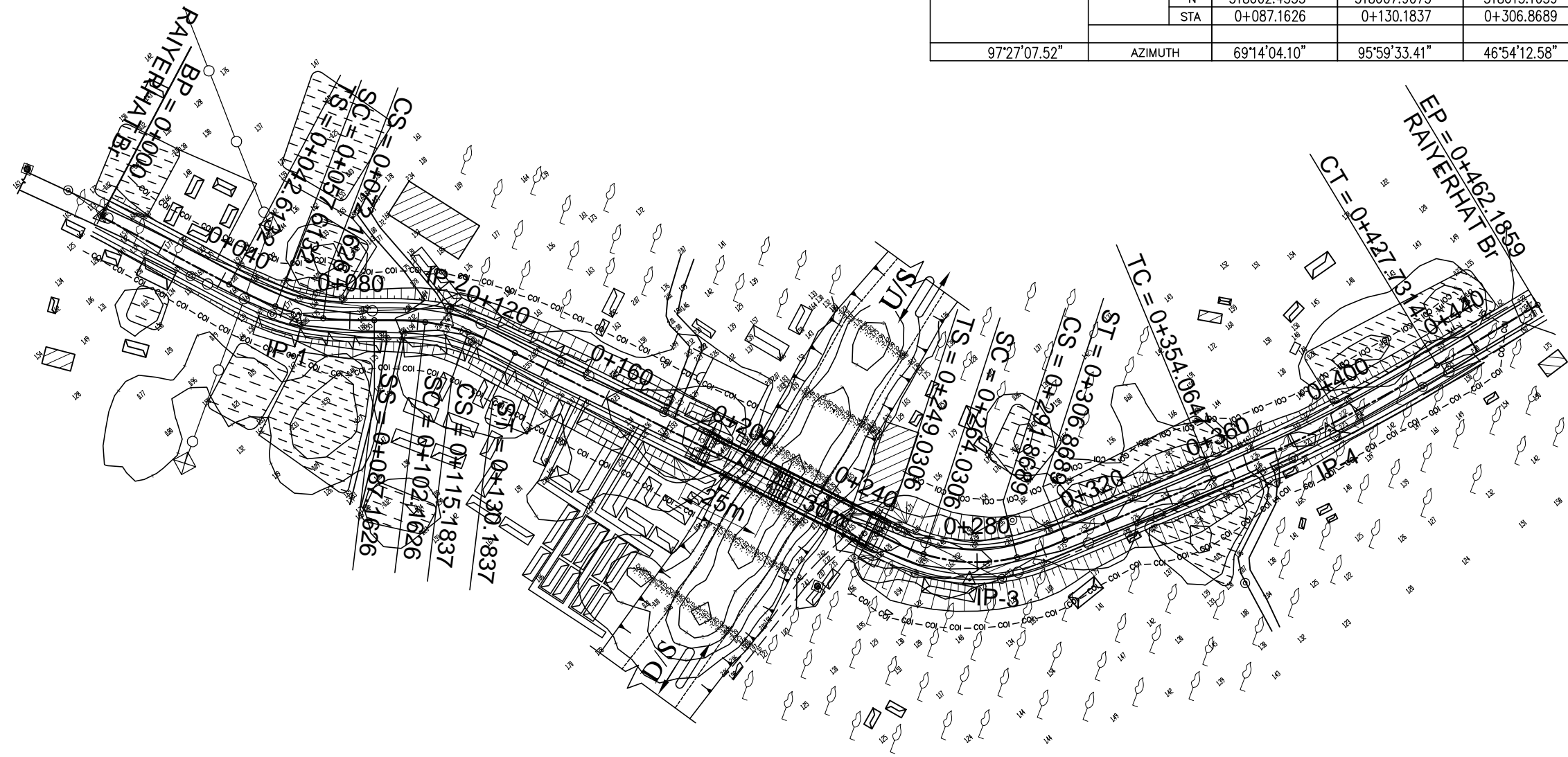
BP		IP-1	IP-2	IP-3	IP-4	IP-5	EP			
X	412675.2130	V (Kph)	40	40	50	40	V (Kph)	X	413006.5643	
Y	842003.6536	TYPE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	TYPE	Y	842096.9810
STA	0+000	$\Delta$	5°08'34.23"	29°45'12.79"	2°42'31.50"	43°26'33.04"	10°53'25.13"	$\Delta$	STA	0+365.9198
		R (m)	320.0000	55.0000	800.0000	40.0000	200.0000	R (m)		
		A		28.7228   28.7228		24.4949   24.4949		A		
		TS / TC (m)	14.3712	22.1511   22.1511	18.9142	23.5196   23.5196	19.0646	TS / TC (m)		
		LC (m)	28.7230	13.5614	37.8213	15.3286	38.0144	LC (m)		
		LS (m)		15.0000   15.0000		15.0000   15.0000		LS (m)		
		L (m)	28.7230	43.5610	37.8213	45.3290	38.0144	L (m)		
		e max (%)						e max (%)		
		PI	E	412714.5607	412750.9087	412823.2359	412960.4165	412988.6708	E	PI
			N	841997.0884	841987.6100	842007.1770	842037.4118	842079.0991	N	
		TS/SS	E		412729.4743		412937.4481		E	TS/SS
			N		841993.1994		842032.3495		N	
			STA		0+055.2847		0+268.5686		STA	
		SC/TC /cc	E	412700.3855	412744.1338	412804.9780	412951.8439	412977.9747	E	SC/TC /cc
			N	841999.4535	841990.0803	842002.2376	842036.4799	842063.3177	N	
			STA	0+025.5204	0+070.2847	0+132.7080	0+283.5686	0+321.6730	STA	
		CS/CT /cc	E	841993.4621	412757.6607	842011.2480	412964.4518	842092.5755	E	CS/CT /cc
			N	412728.4668	841990.1420	412841.7067	842045.0324	413002.1559	N	
			STA	0+054.2435	0+083.8461	0+170.5293	0+298.8972	0+359.6874	STA	
		ST/SS	E		412772.2911		412973.6121		E	ST/SS
			N		841993.3947		842056.8809		N	
			STA		0+098.8461		0+313.8972		STA	
		99°28'21.40"	AZIMUTH	104°36'55.63"	74°51'42.84"	77°34'14.34"	34°07'41.30"	45°01'06.43"		AZIMUTH

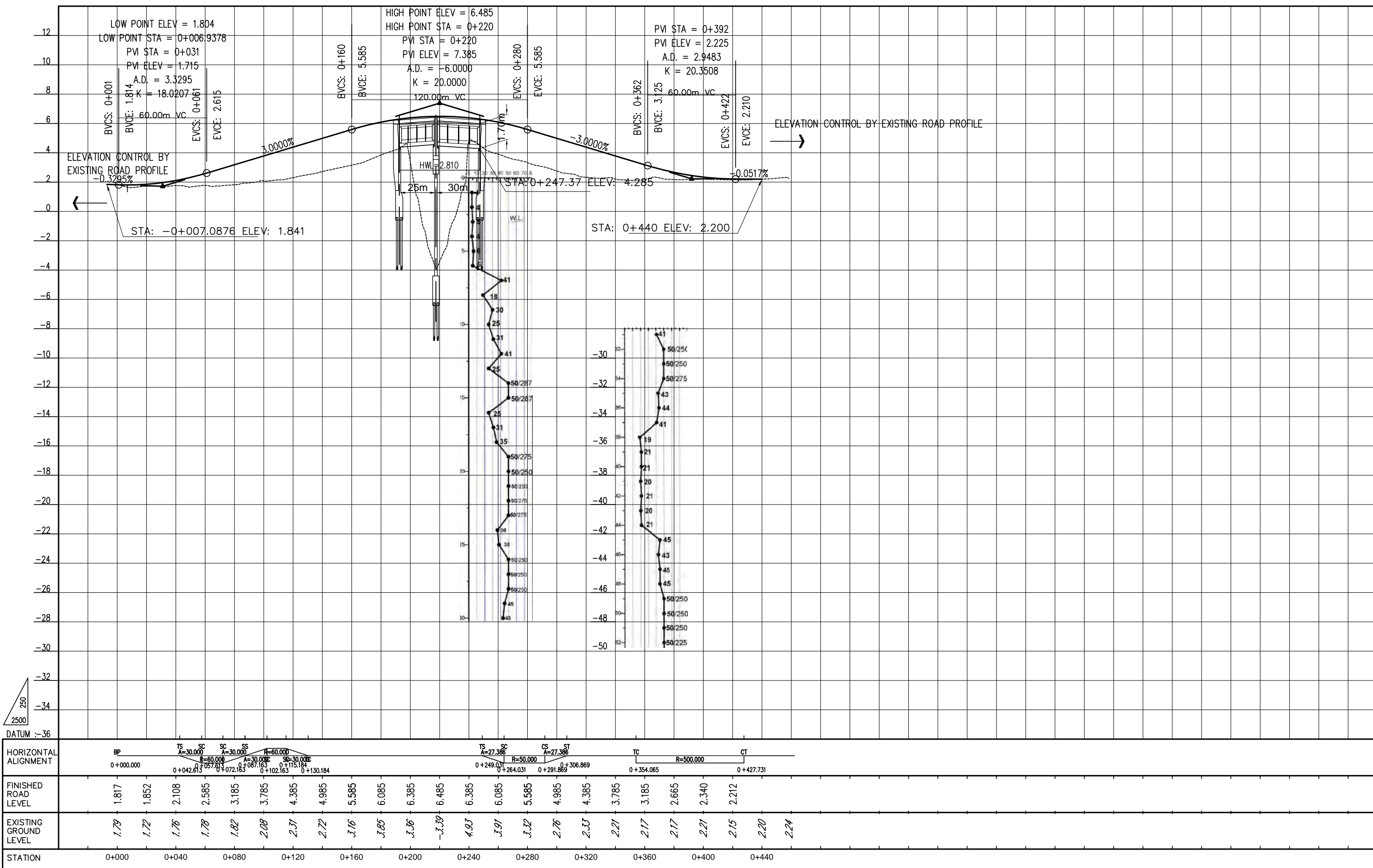




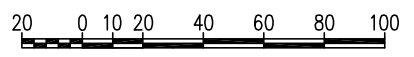
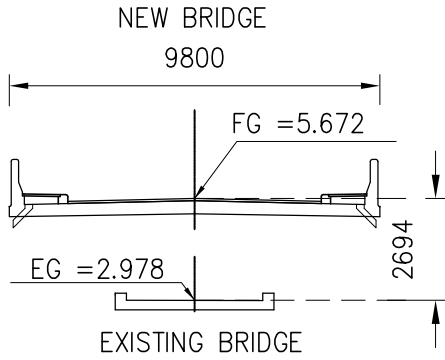
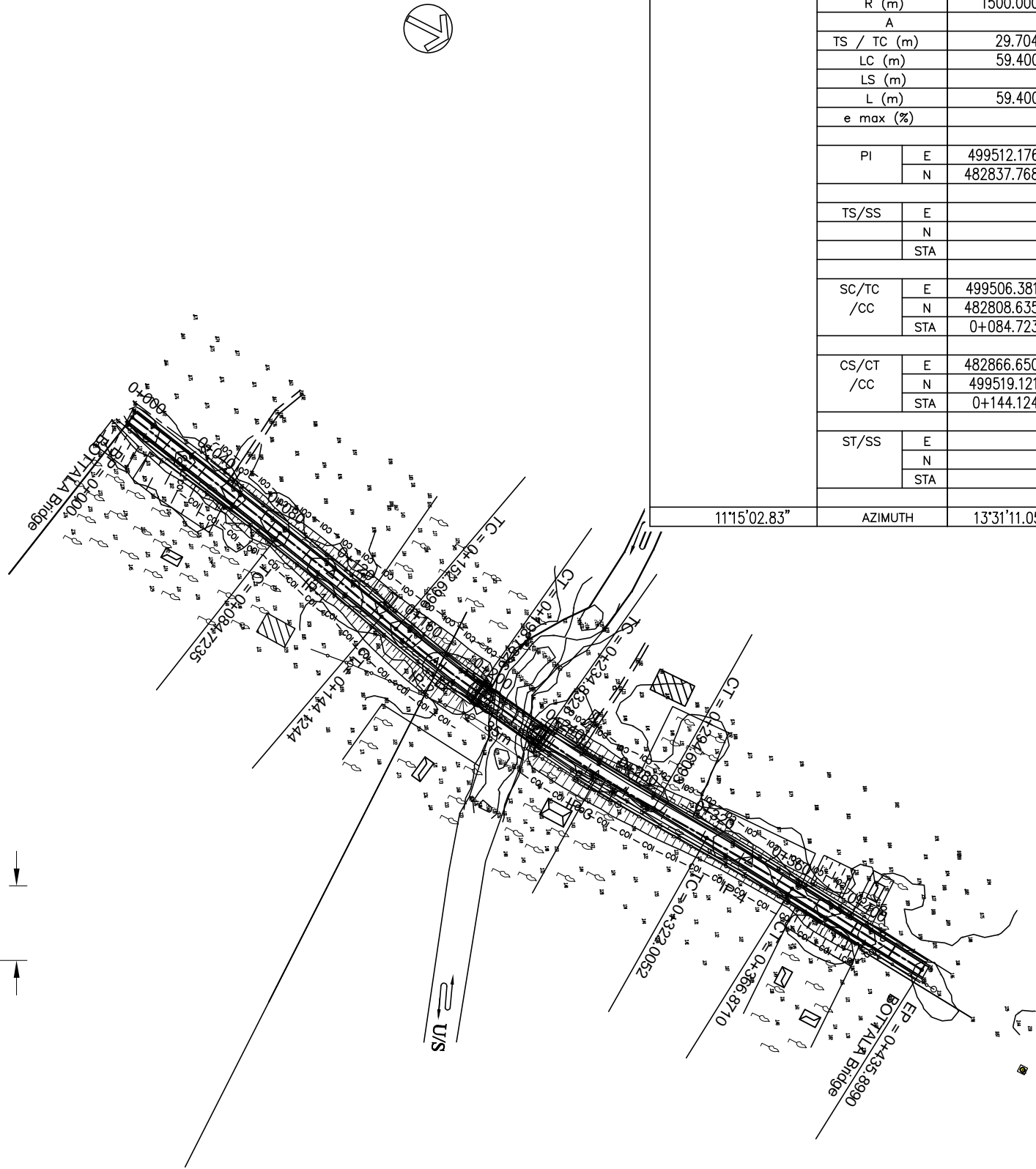


BP		IP-1		IP-2		IP-3		IP-4		EP			
X	517308.3167	V (Kph)	40		40		40		40		V (Kph)	X	517712.6563
Y	518602.8950	TYPE	SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		FULL CIRCLE		TYPE	Y	518726.4329
STA	0+000	$\Delta$	28°13'03.42"		26°45'29.31"		49°05'20.84"		8°26'29.71"		$\Delta$	STA	0+462.1859
		R (m)	60.0000		60.0000		50.0000		500.0000		R (m)		
		A	30.0000	30.0000	30.0000	30.0000	27.3861	27.3861			A		
		TS / TC (m)	22.6161	22.6161	21.8041	21.8041	30.4132	30.4132	36.9001		TS / TC (m)		
		LC (m)	14.5494		13.0211		27.8383		73.6667		LC (m)		
		LS (m)	15.0000	15.0000	15.0000	15.0000	15.0000	15.0000			LS (m)		
		L (m)	44.5490		43.0210		57.8380		73.6667		L (m)		
		e max (%)									e max (%)		
		PI	E	517372.9951	517414.5297	517584.6591	517668.2741	E	PI				
			N	518594.4349	518610.1838	518592.3247	518670.5607	N					
		TS/SS	E	517350.5700	517394.1420	517554.4121		E	TS/SS				
			N	518597.3682	518602.4533	518595.4998		N					
			STA	0+042.6132	0+087.1626	0+249.0306		STA					
		SC/TC /CC	E	517365.5010	517408.3670	517569.3747	517641.3295	E	SC/TC /CC				
			N	518596.0448	518607.1794	518594.6821	518645.3495	N					
			STA	0+057.6132	0+102.1626	0+264.0306	0+354.0647	STA					
		CS/CT /CC	E	517379.9170	517421.2547	517595.4269	518699.4543	E	CS/CT /CC				
			N	518597.7272	518608.8502	518603.4253	517691.2258	N					
			STA	0+072.1626	0+115.1837	0+291.8689	0+427.7314	STA					
		ST/SS	E	517394.1420	517436.2146	517606.8669		E	ST/SS				
			N	518602.4533	518607.9075	518613.1039		N					
			STA	0+087.1626	0+130.1837	0+306.8689		STA					
		97°27'07.52"	AZIMUTH	69°14'04.10"	95°59'33.41"	46°54'12.58"	38°27'42.87"	AZIMUTH					

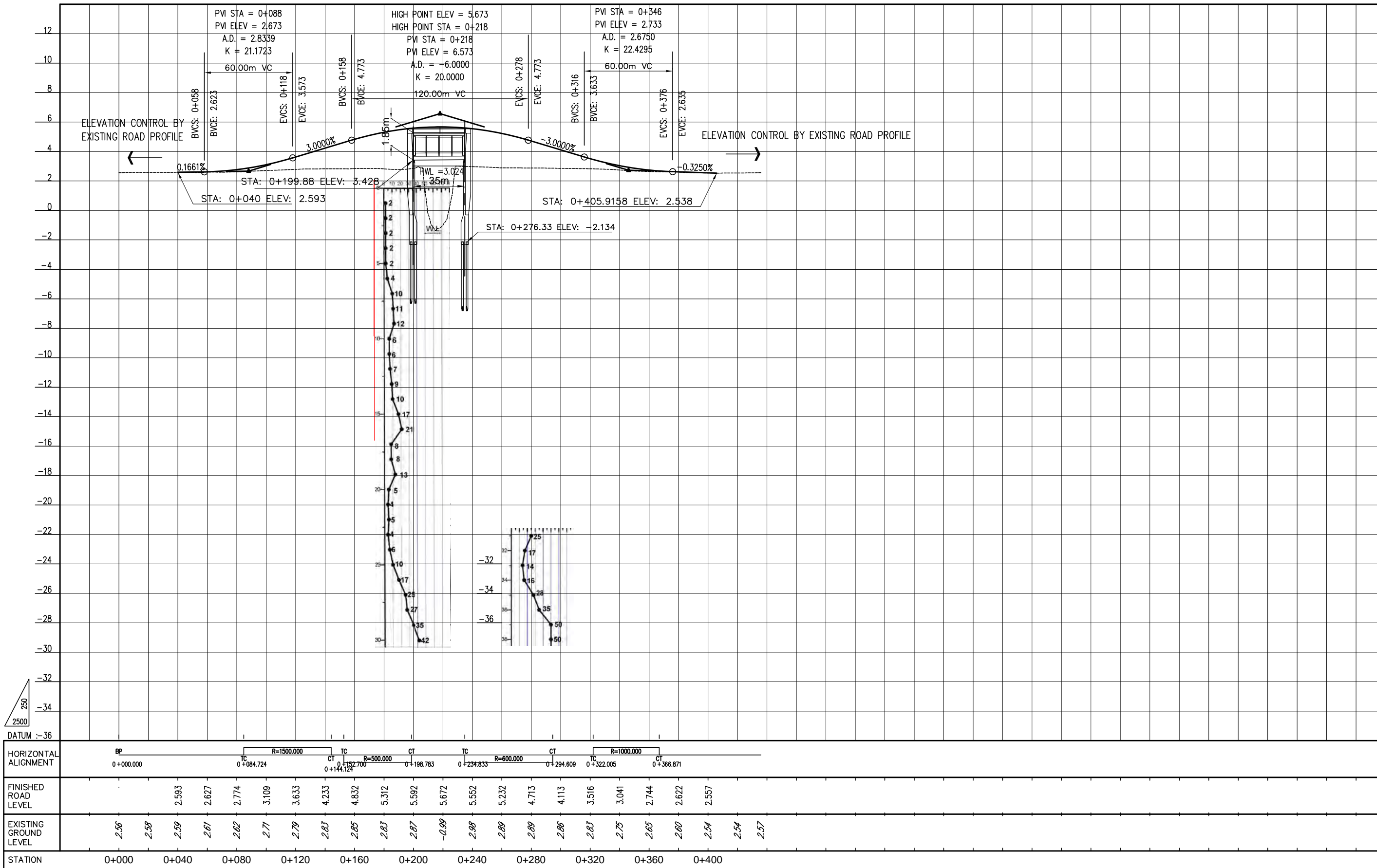


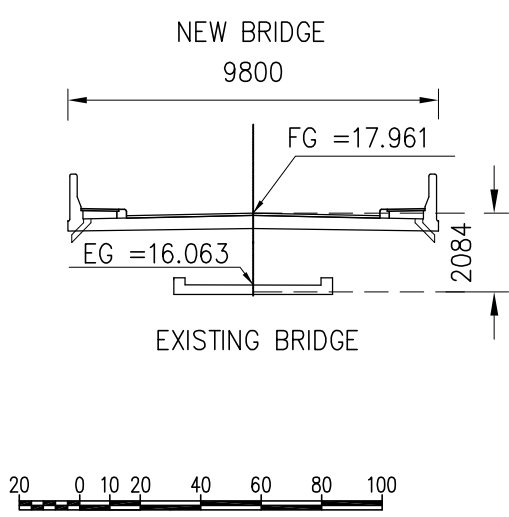
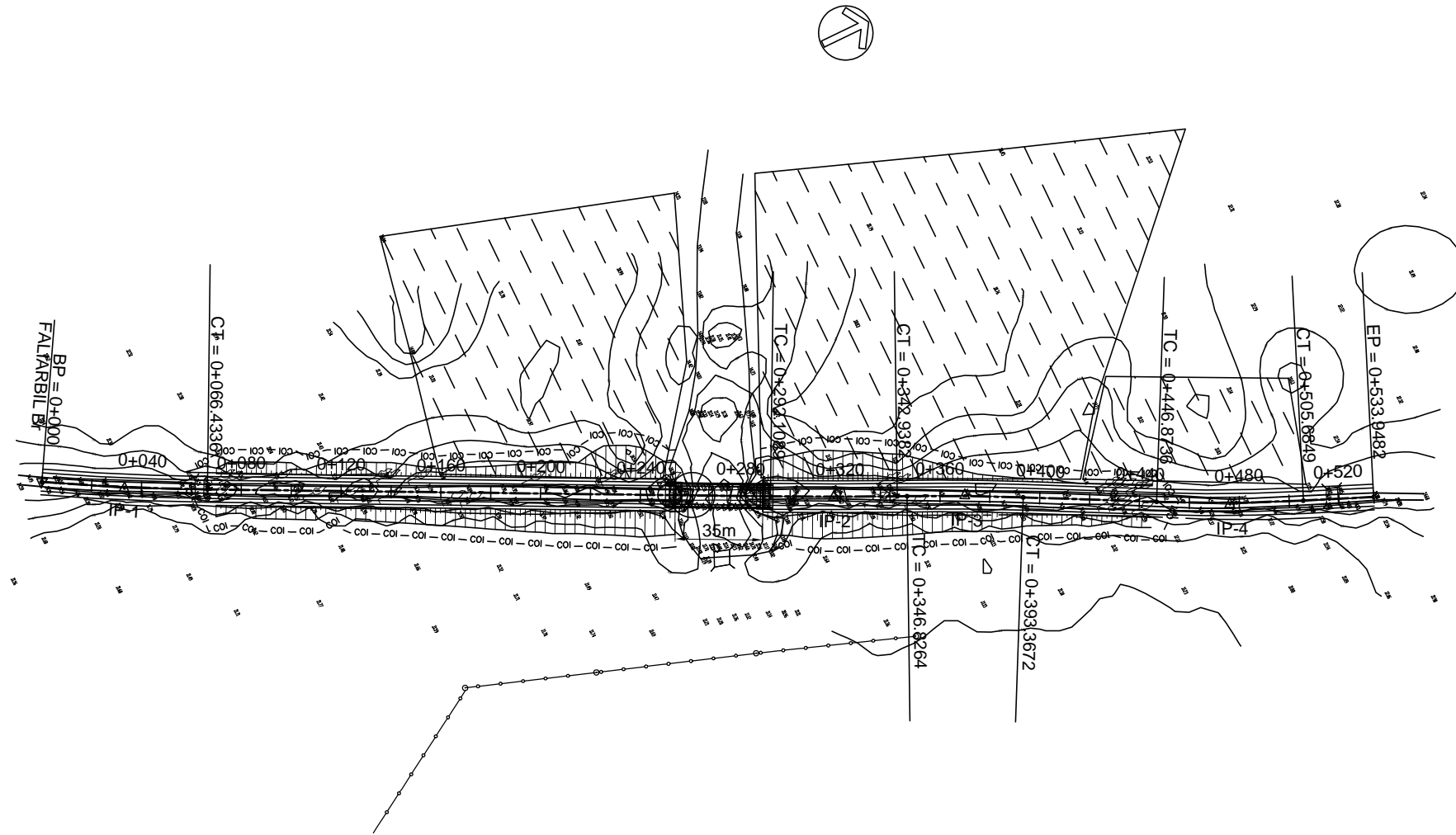


BP			IP-1	IP-2	IP-3	IP-4		EP		
X	499489.8516	V (Kph)	50	50	50	50	V (Kph)	X	499550.9275	
Y	482725.5400	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE	Y	483156.2788	
STA	0+000	$\Delta$	2'16'08.22"	5'16'50.62"	5'42'29.64"	2'34'14.23"	$\Delta$	STA	0+435.8990	
		R (m)	1500.0000	500.0000	600.0000	1000.0000	R (m)			
		A					A			
		TS / TC (m)	29.7044	23.0579	29.9130	22.4367	TS / TC (m)			
		LC (m)	59.4009	46.0831	59.7765	44.8658	LC (m)			
		LS (m)					LS (m)			
		L (m)	59.4009	46.0831	59.7765	44.8658	L (m)			
		e max (%)					e max (%)			
		PI	E	499512.1769	499526.5164	499539.2733	499542.7946	E	PI	
			N	482837.7688	482897.4065	482985.5087	483065.1765	N		
		TS/SS	E					E	TS/SS	
			N					N		
			STA					STA		
		SC/TC /CC	E	499506.3815	499521.1259	499534.9867	499541.8039	E	SC/TC /CC	
			N	482808.6353	482874.9876	482955.9044	483042.7617	N		
			STA	0+084.7235	0+152.6996	0+234.8328	0+322.0052	STA		
		CS/CT /CC	E	482866.6500	482920.2264	483015.3925	483087.5242	E	CS/CT /CC	
			N	499519.1212	499529.8206	499540.5942	499544.7896	N		
			STA	0+144.1244	0+198.7826	0+294.6093	0+366.8710	STA		
		ST/SS	E					E	ST/SS	
			N					N		
			STA					STA		
				11'15'02.83"	AZIMUTH	13'31'11.05"	8'14'20.43"	2'31'50.78"	5'06'05.02"	AZIMUTH

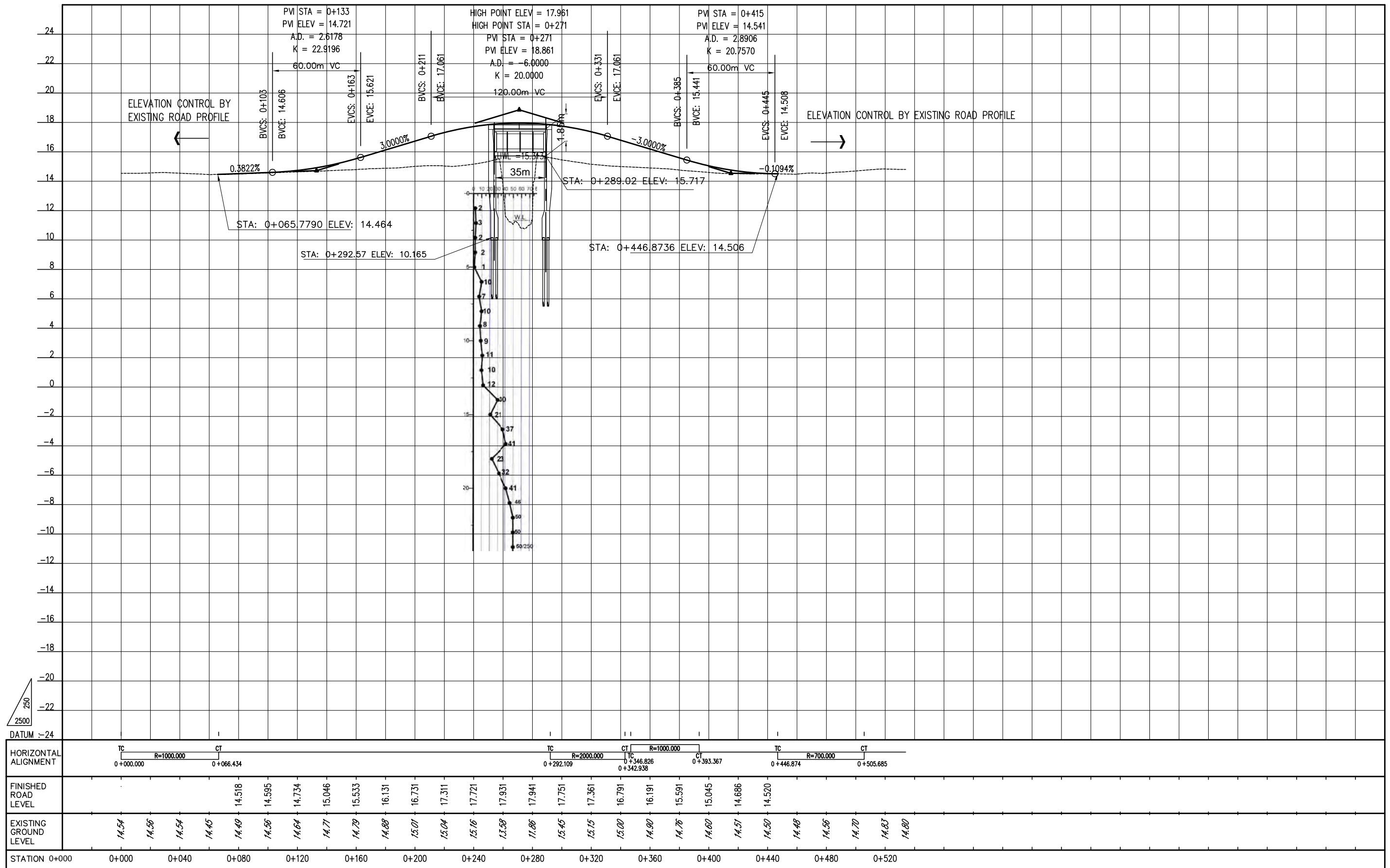


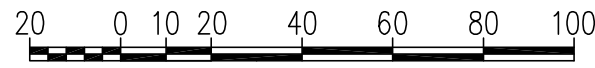
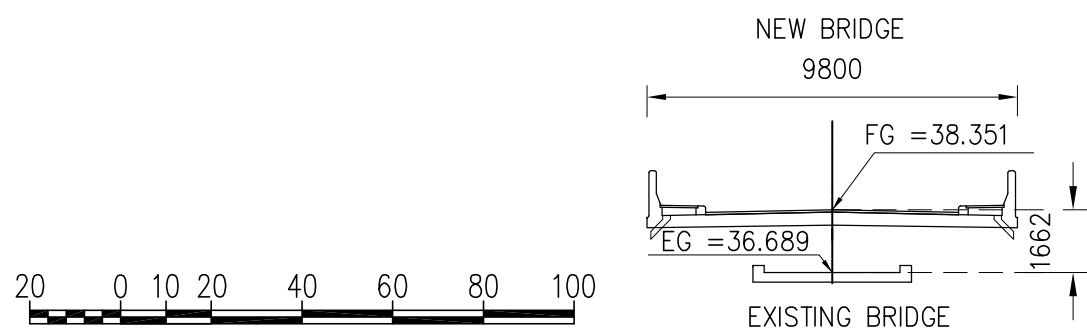
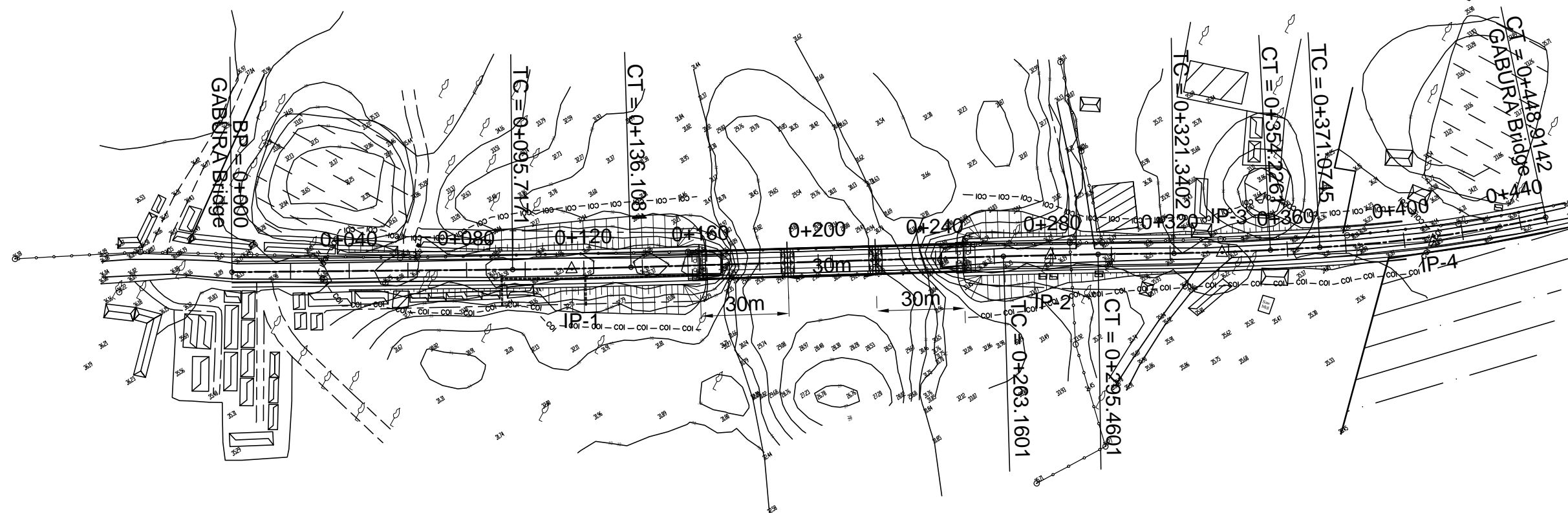




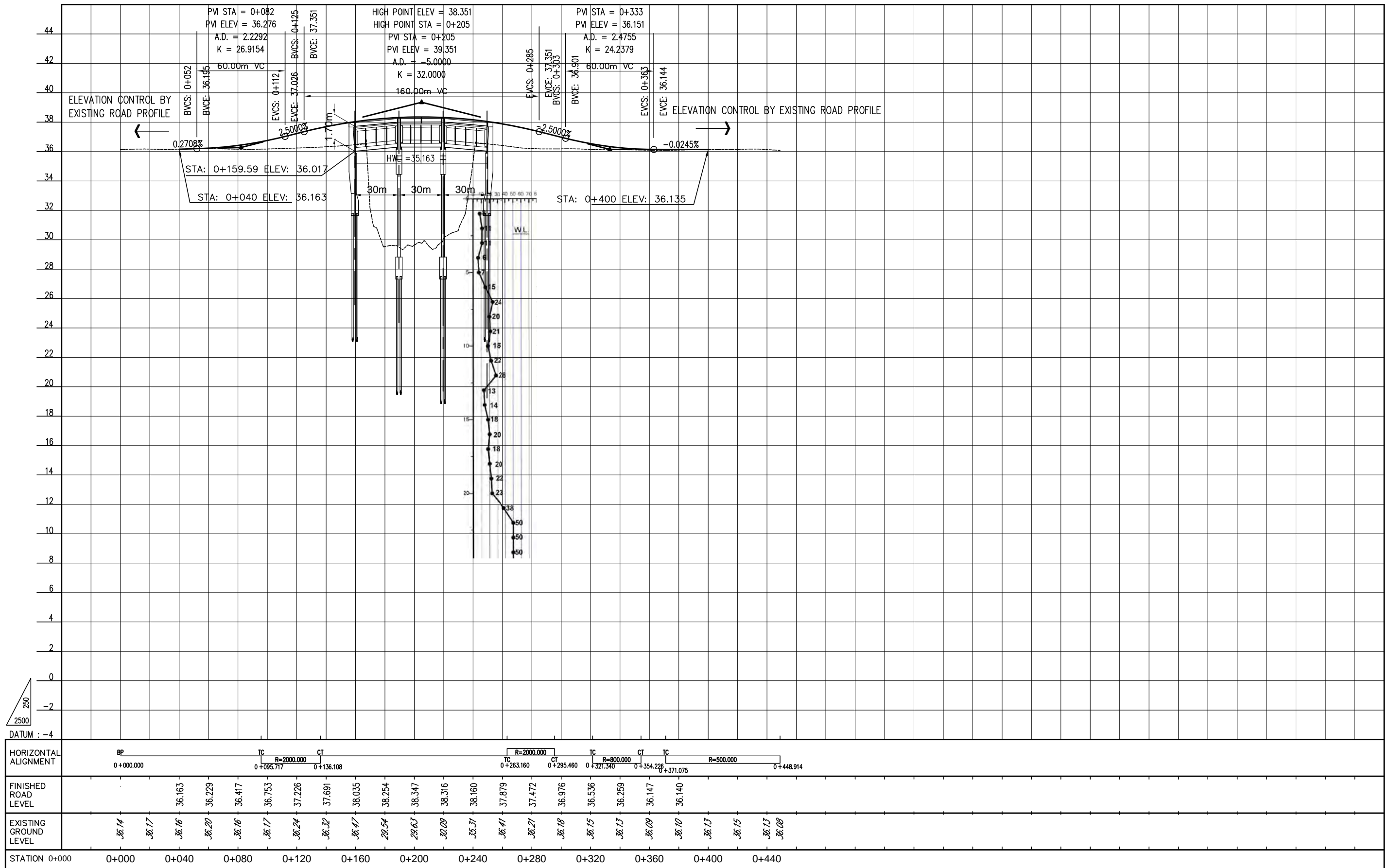


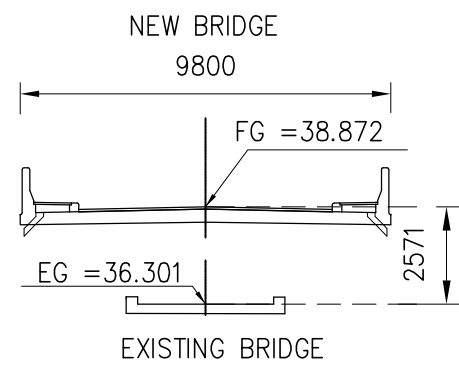
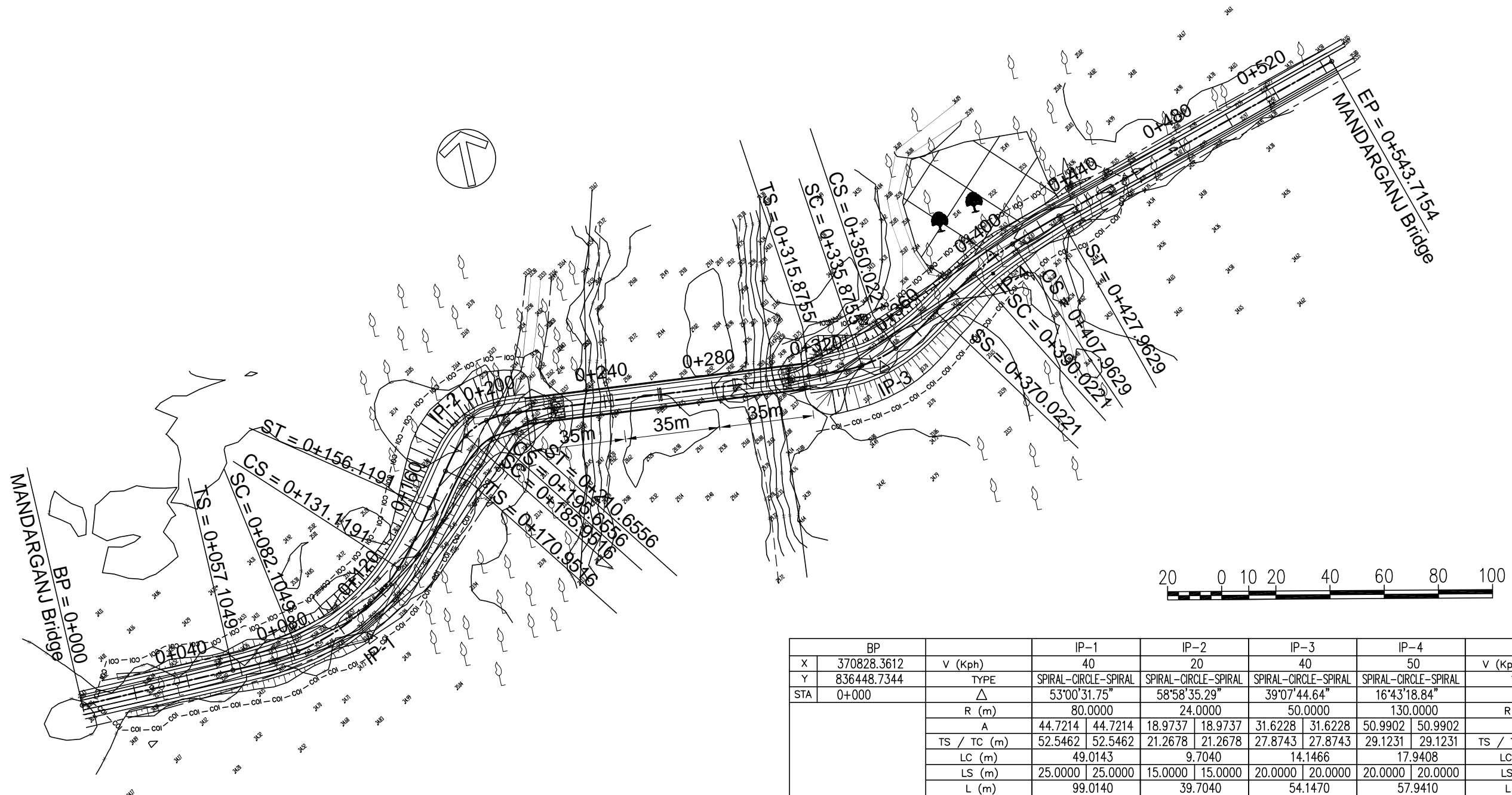
BP		IP-1		IP-2		IP-3		IP-4		EP	
X	367798.7848	V (Kph)	50	50	50	50	V (Kph)	X	368035.0919		
Y	703513.0507	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE	Y	703991.6856		
STA	0+000	$\Delta$	3°48'22.92"	1°27'22.15"	2°39'59.73"	4°48'49.55"	$\Delta$	STA	0+533.9482		
		R (m)	1000.0000	2000.0000	1000.0000	700.0000	R (m)				
		A					A				
		TS / TC (m)	33.2290	25.4160	23.2746	29.4229	TS / TC (m)				
		LC (m)	66.4336	50.8294	46.5408	58.8112	LC (m)				
		LS (m)					LS (m)				
		L (m)	66.4336	50.8294	46.5408	58.8112	L (m)				
		e max (%)					e max (%)				
		PI	E 367815.4683	367941.5804	367963.6970	368012.8047	E PI				
			N 703541.7880	703796.6091	703844.3101	703938.4786	N				
		TS/SS	E				E TS/SS				
			N				N				
			STA				STA				
		SC/TC /cc	E 367798.7848	367930.3069	367953.9068	367999.1998	E SC/TC /cc				
			N 703513.0507	703773.8300	703823.1947	703912.3900	N				
			STA 0+000	0+292.1089	0+346.8264	0+446.8736	STA				
		CS/CT /cc	E 703571.5694	703819.6672	703864.9471	703965.6169	E CS/CT /cc				
			N 367830.2072	367952.2713	367974.4590	368024.1723	N				
			STA 0+066.4336	0+342.9382	0+393.3672	0+505.6849	STA				
		ST/SS	E				E ST/SS				
			N				N				
			STA				STA				
		AZIMUTH	30°08'14.58"	26°19'51.66"	24°52'29.51"	27°32'29.24"	22°43'39.69"	AZIMUTH			



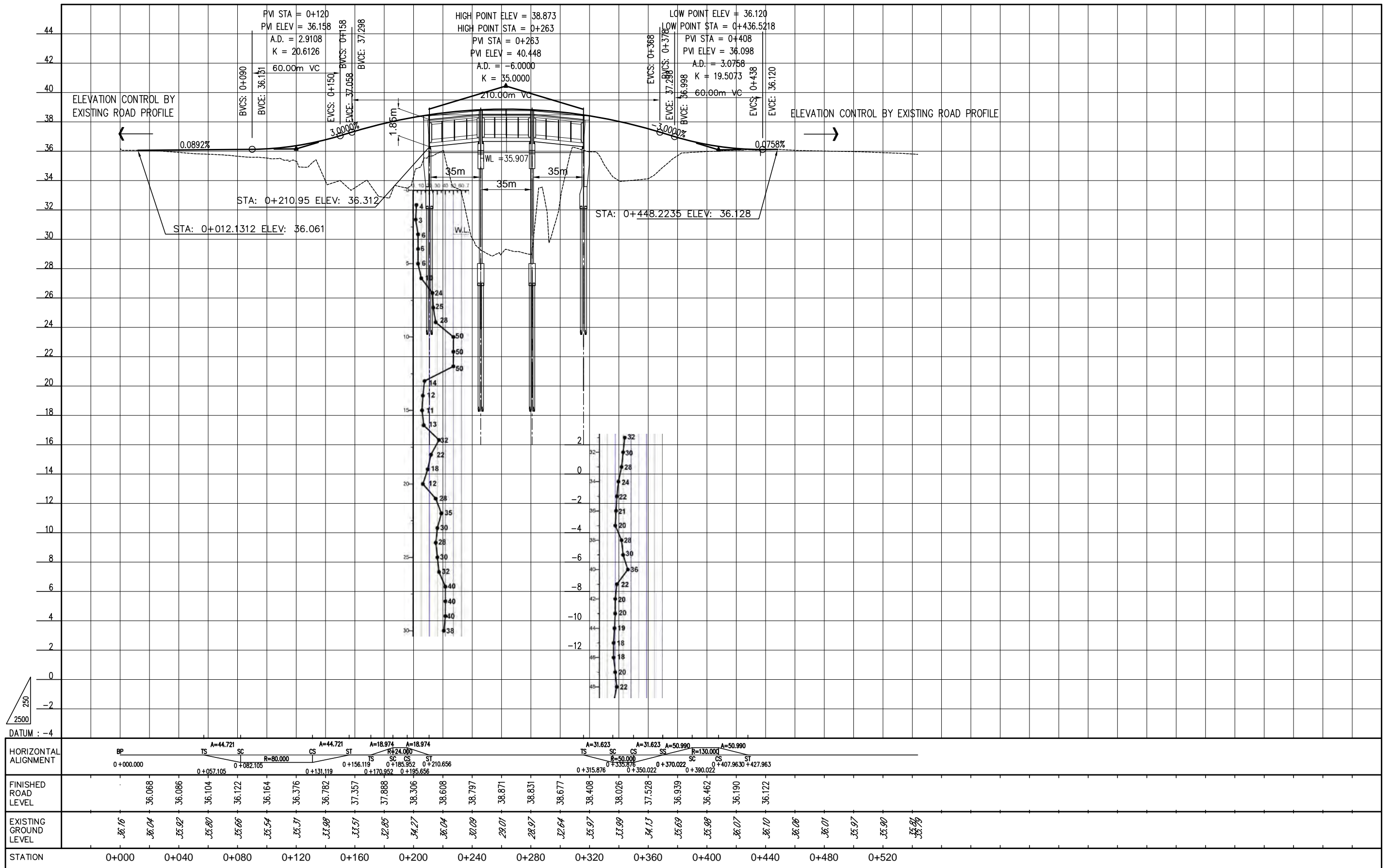


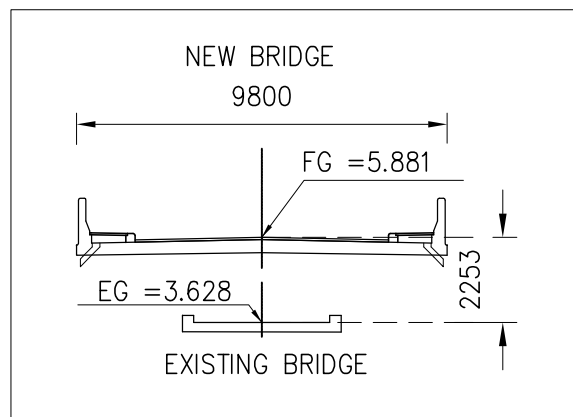
BP		IP-1				IP-2				IP-3				IP-4				EP	
X	366653.3889	V (Kph)	50	50	50	50	V (Kph)	X	367038.1300	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE		Y	836206.8065	
Y	835976.4619	TYPE	1'09'25.62"	0'55'31.17"	2'21'19.00"	8'55'11.17"	TYPE	Y	836206.8065	TYPE					TYPE		STA	0+448.9142	
STA	0+000	R (m)	2000.0000	2000.0000	800.0000	500.0000	R (m)	STA	0+448.9142	R (m)				R (m)					
		A					A			A				A					
		TS / TC (m)	20.1962	16.1503	16.4453	38.9986	TS / TC (m)			TS / TC (m)				TS / TC (m)					
		LC (m)	40.3910	32.3000	32.8859	77.8397	LC (m)			LC (m)				LC (m)					
		LS (m)					LS (m)			LS (m)				LS (m)					
		L (m)	40.3910	32.3000	32.8859	77.8397	L (m)			L (m)				L (m)					
		e max (%)					e max (%)			e max (%)				e max (%)					
		PI	E 366754.7239	366895.9409	366946.9469	367008.4985	PI			E	PI			E	PI				
			N 836032.7389	836114.9390	836143.5361	836181.4517			N	PI				N	PI				
		TS/SS	E				TS/SS			E	TS/SS			E	TS/SS				
			N							N	TS/SS			N	TS/SS				
		STA					STA			STA				STA					
		SC/TC /CC	E 366737.0678	366881.9830	366932.6024	366975.2941	SC/TC /CC			E	SC/TC /CC			E	SC/TC /CC				
			N 836022.9335	836106.8143	836135.4937	836160.9978			N	SC/TC /CC				N	SC/TC /CC				
		STA	0+095.7171	0+263.1601	0+321.3402	0+371.0745	STA			STA				STA					
		CS/CT /CC	E 836042.8989	836122.8372	836152.1612	836206.8065	CS/CT /CC			E	CS/CT /CC			E	CS/CT /CC				
			N 366772.1785	366910.0282	366960.9488	367038.1300			N	CS/CT /CC				N	CS/CT /CC				
		STA	0+136.1081	0+295.4601	0+354.2261	0+448.9142	STA			STA				STA					
		ST/SS	E				ST/SS			E	ST/SS			E	ST/SS				
			N							N	ST/SS			N	ST/SS				
		STA					STA			STA				STA					
		AZIMUTH	60°57'14.88"	59°47'49.26"	60°43'20.43"	58°22'01.43"	AZIMUTH			AZIMUTH				AZIMUTH					



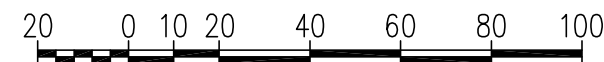
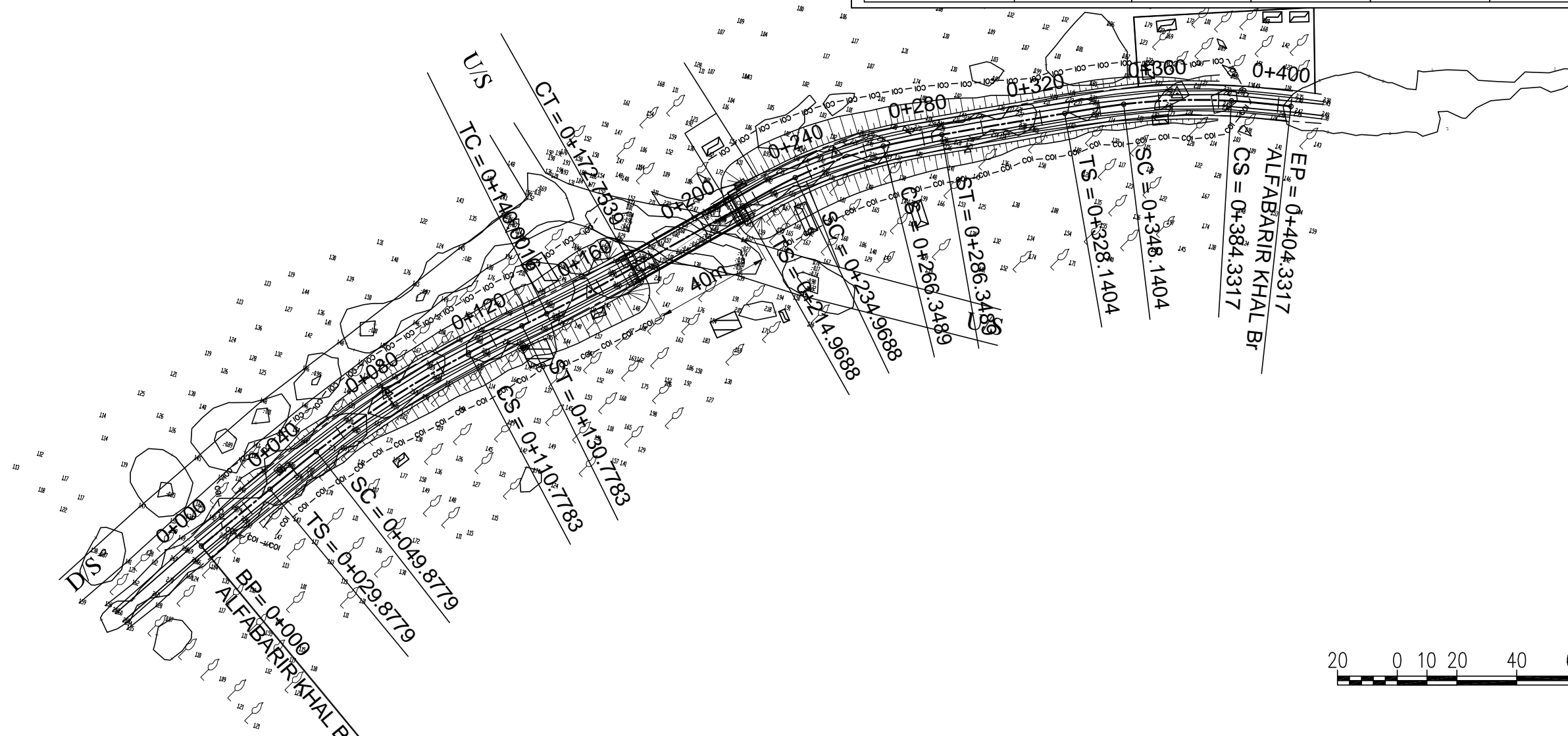


BP		IP-1				IP-2				IP-3				IP-4				EP	
X	370828.3612	V (Kph)		40		20		40		50		V (Kph)		X	371329.3249				
Y	836448.7344	TYPE		SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		TYPE		Y	836584.1580				
STA	0+000	Δ		53°00'31.75"		58°58'35.29"		39°07'44.64"		16°43'18.84"		Δ		STA	0+543.7154				
		R (m)		80.0000		24.0000		50.0000		130.0000		R (m)							
		A		44.7214 44.7214		18.9737 18.9737		31.6228 31.6228		50.9902 50.9902		A							
		TS / TC (m)		52.5462 52.5462		21.2678 21.2678		27.8743 27.8743		29.1231 29.1231		TS / TC (m)							
		LC (m)		49.0143 9.7040		14.1466 17.9408		LC (m)											
		LS (m)		25.0000 25.0000		15.0000 15.0000		20.0000 20.0000		20.0000 20.0000		LS (m)							
		L (m)		99.0140 39.7040		54.1470 57.9410		L (m)											
		e max (%)						e max (%)											
		PI		E 370937.9966		370990.1297		371143.9047		371191.0851		E PI							
		N		836450.5884		836522.2846		836508.8343		836540.8142		N							
		TS/SS		E 370885.4579		370977.6221		371116.1364		371166.9780		E TS/SS							
		N		836449.7000		836505.0835		836511.2631		836524.4739		N							
		STA		0+057.1049		0+170.9516		0+315.8755		0+370.0221		STA							
		SC/TC /cc		E 370910.3714		370987.6128		371136.0966		371183.8111		E SC/TC /cc							
		N		836451.4213		836516.1848		836510.8519		836535.2645		N							
		STA		0+082.1049		0+185.9516		0+335.8755		0+390.0221		STA							
		CS/CT /cc		E 370953.1812		370996.3838		371149.7429		371199.9549		E CS/CT /cc							
		N		836473.6812		836520.1801		836514.3977		836543.0580		N							
		STA		0+131.1191		0+195.6556		0+350.0221		0+407.9629		STA							
		ST/SS		E 370968.8991		371011.3166		371166.9780		371218.8742		E ST/SS							
		N		836493.0872		836520.4315		836524.4739		836549.5272		N							
		STA		0+156.1191		0+210.6556		0+370.0221		0+427.9629		STA							
		AZIMUTH		89°01'52.18"		36°01'20.43"		94°59'55.71"		55°52'11.07"		72°35'29.92"		AZIMUTH					

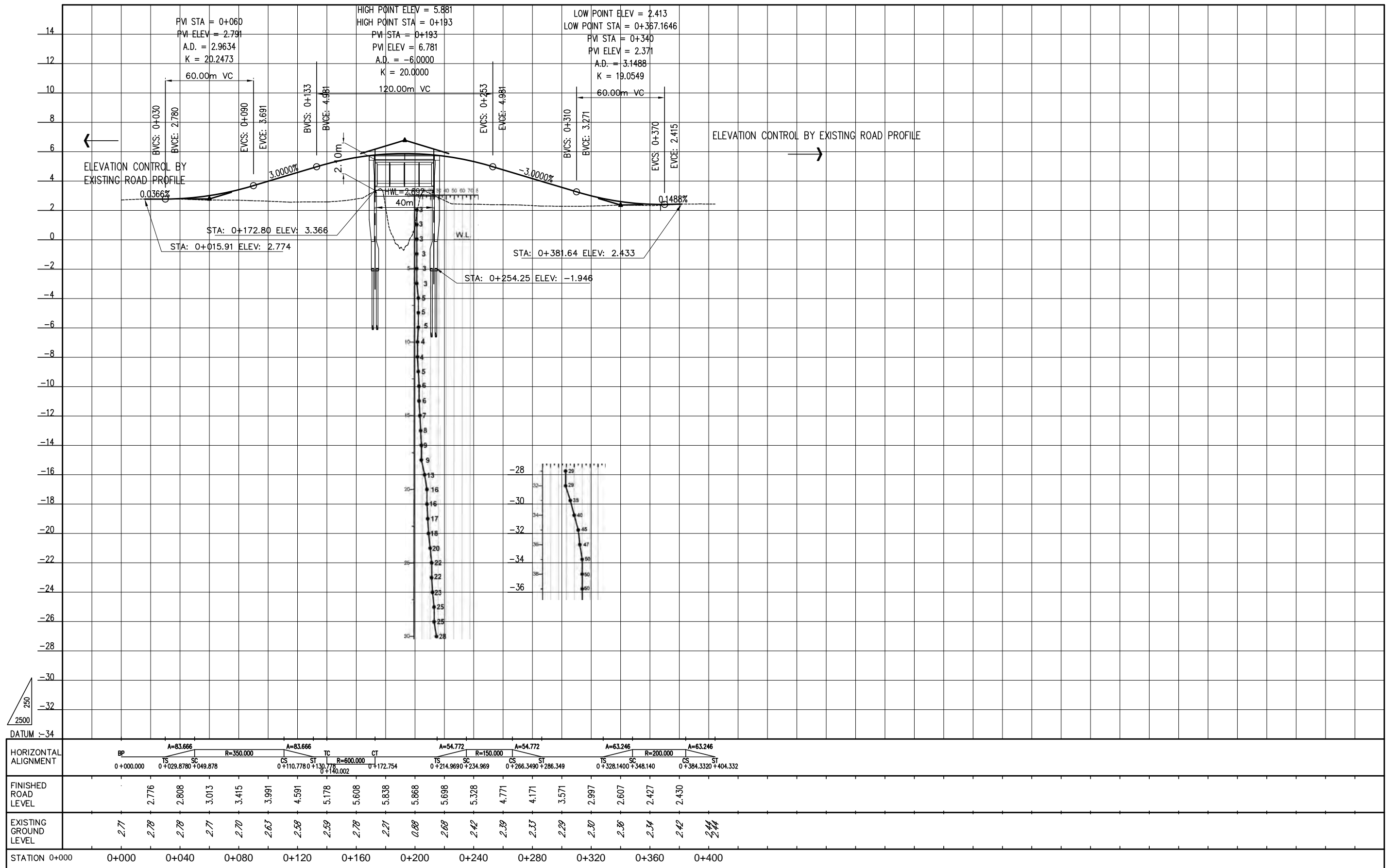




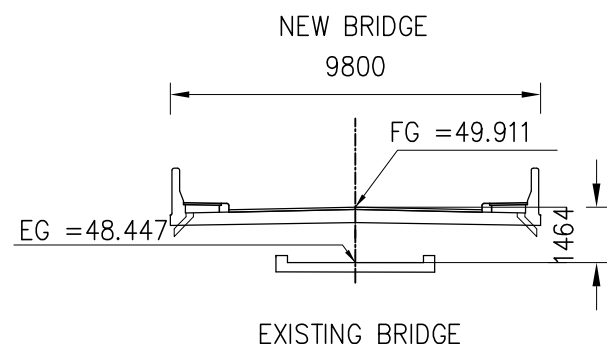
BP		IP-1		IP-2		IP-3		IP-4		EP	
X	515111.9364	V (Kph)	50	50	50	50	V (Kph)	X	515266.6159	X	515266.6159
Y	493439.3933	TYPE	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	TYPE	Y	493801.4375	Y	493801.4375
STA	0+000	$\Delta$	13°14'36.89"	3°07'39.40"	19°37'32.67"	16°05'51.46"	$\Delta$	STA	0+404.3317	STA	0+404.3317
		R (m)	350.0000	600.0000	150.0000	200.0000	R (m)				
		A	83.6660	83.6660	54.7723	54.7723	A				
		TS / TC (m)	50.6365	50.6365	16.3802	35.9619	35.9619	38.2929	38.2929	TS / TC (m)	
		LC (m)	60.9004		32.7523	31.3801		36.1913		LC (m)	
		LS (m)	20.0000	20.0000		20.0000	20.0000	20.0000	20.0000	LS (m)	
		L (m)	100.9000		32.7523	71.3800		76.1910		L (m)	
		e max (%)								e max (%)	
		PI	E 515119.6859	515144.2137	515169.7044	515236.7048	E 515236.7048	PI			
			N 493519.5339	493591.7207	493682.7770	493777.5278	N 493777.5278				
		TS/SS	E 515114.8121		515160.0098	515214.5960	E 515214.5960	TS/SS			
			N 493469.1325		493648.1465	493746.2620	N 493746.2620				
		STA	0+029.8779		0+214.9688	0+328.1404	STA				
		SC/TC /CC	E 515116.9266	515138.9439	515165.8268	515226.4124	E 515226.4124	SC/TC /CC			
			N 493489.0197	493576.2113	493667.2777	493762.3953	N 493762.3953				
		STA	0+049.8779	0+140.0016	0+234.9688	0+348.1404	STA				
		CS/CT /CC	E 515129.7231	493607.4944	515179.2880	515251.2056	E 515251.2056	CS/CT /CC			
			N 493548.4820	515148.6295	493695.5606	493788.6925	N 493788.6925				
		STA	0+110.7783	0+172.7539	0+266.3489	0+384.3317	STA				
		ST/SS	E 515135.9766		515190.4673	515266.6159	E 515266.6159	ST/SS			
			N 493567.4784		493712.1396	493801.4375	N 493801.4375				
		STA	0+130.7783		0+286.3489	0+404.3317	STA				
		AZIMUTH	5°31'23.82"	18°46'00.72"	15°38'21.32"	35°15'53.99"	51°21'45.45"	AZIMUTH			



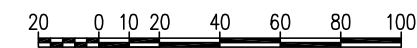


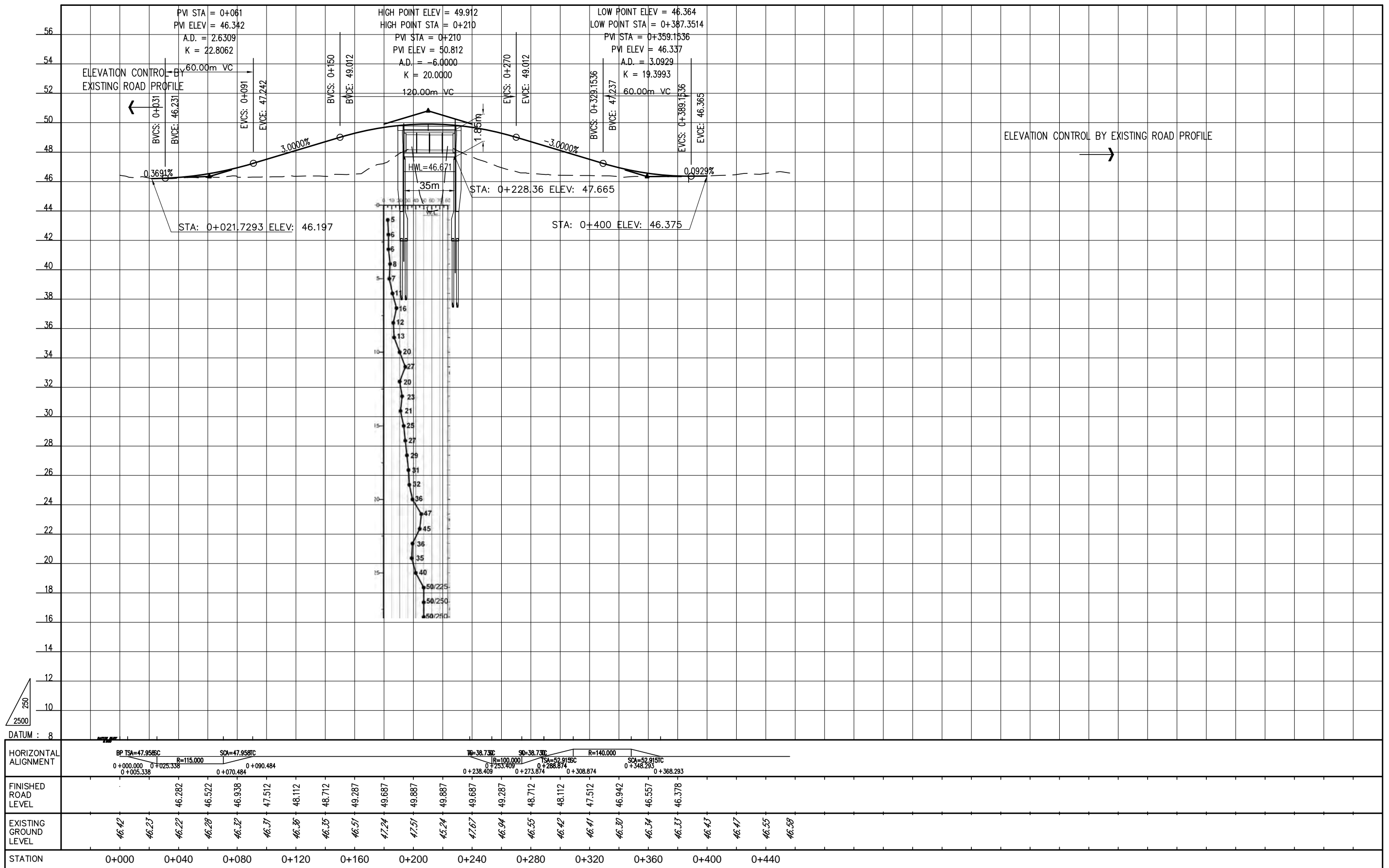


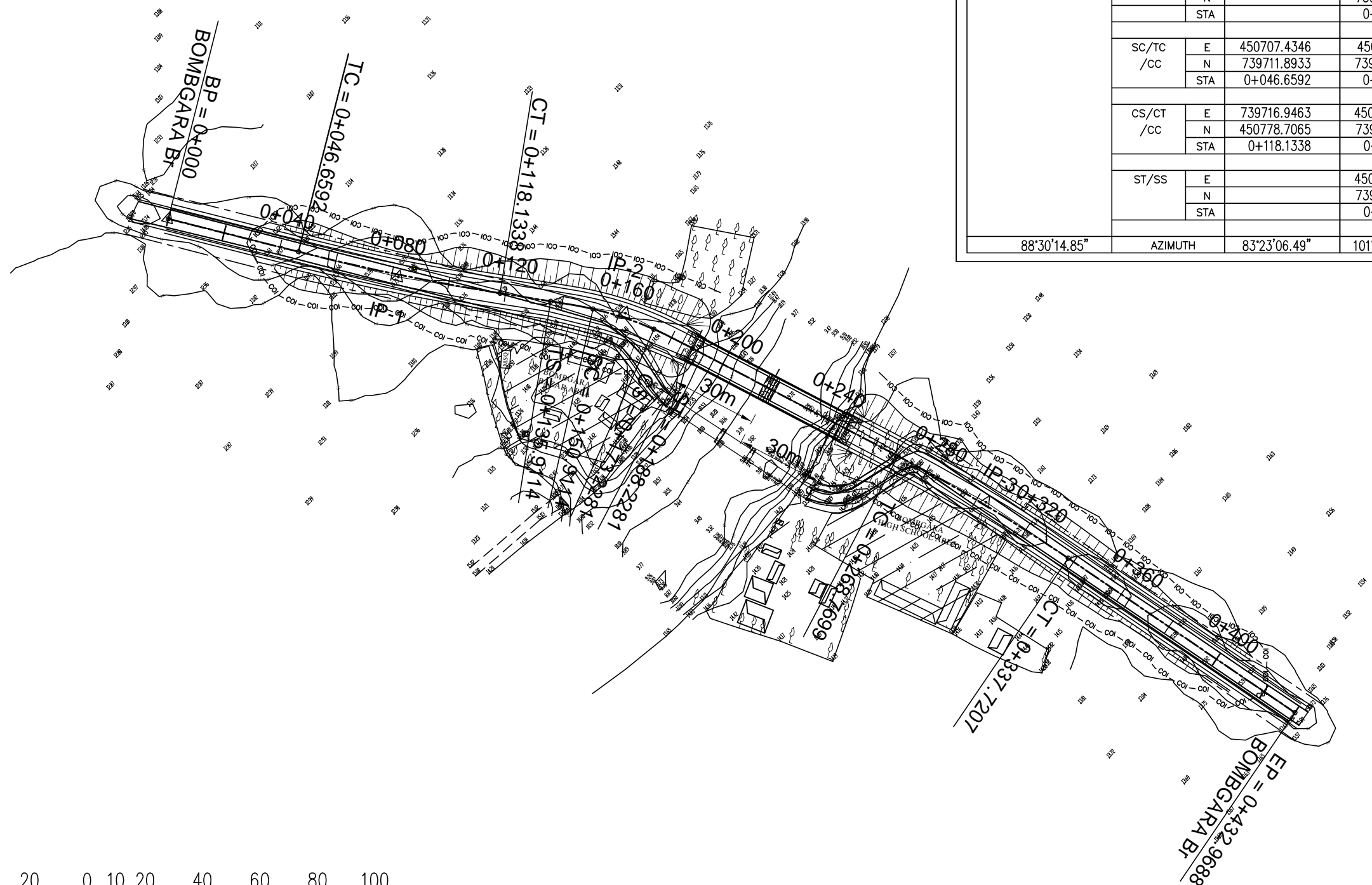
STATION	0+000	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+320	0+360	0+400										
HORIZONTAL ALIGNMENT	BP	TS	SC	CS	ST	TC	CT	TS	SC	CS	ST	TS	SC	CS	ST							
	0+000.000	0+029.8780	0+049.878	0+110.7780	0+130.778	0+172.754	0+172.754	0+214.9690	0+234.969	0+266.3490	0+286.349	0+328.1400	0+348.140	0+384.3320	0+404.332							
FINISHED ROAD LEVEL		2.776	2.808	3.013	3.415	3.991	4.591	5.178	5.608	5.838	5.868	5.698	5.328	4.771	4.171	3.571	2.997	2.607	2.427	2.430		
EXISTING GROUND LEVEL		2.71	2.78	2.78	2.71	2.70	2.63	2.58	2.59	2.78	2.21	2.88	2.68	2.42	2.39	2.33	2.29	2.30	2.36	2.34	2.42	2.44



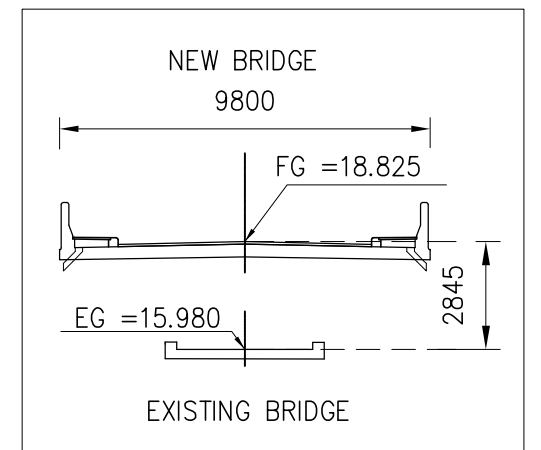
BP		IP-1		IP-2		IP-3		IP-4		EP	
X	385658.2092	V (Kph)		50		50		50		V (Kph)	
Y	868871.2551	TYPE		SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		TYPE	
STA	0+000	Δ		32°27'26.50"		89°18'15.96"		20°19'11.27"		24°19'04.09"	
		R (m)		115.0000		100.0000		140.0000		R (m)	
		A		47.9583   47.9583		38.7298   38.7298		52.9150   52.9150		A	
		TS / TC (m)		43.5127   43.5127		25.4360   25.4360		40.1879   40.1879		TS / TC (m)	
		LC (m)		45.1461		20.4647		39.4196		LC (m)	
		LS (m)		20.0000   20.0000		15.0000   15.0000		20.0000   20.0000		LS (m)	
		L (m)		85.1460		50.4650		79.4200		L (m)	
		e max (%)								e max (%)	
		PI		E 385652.7573		385570.1942		385635.9538		385668.8842	
				N 868919.8003		869022.2493		869076.5746		869133.3380	
		TS/SS		E 385657.6135		385616.3440		385648.7177		E TS/SS	
				N 868876.5594		869060.3745		869098.5762		N	
		STA		0+005.3377		0+238.4090		0+288.8737		STA	
		SC/TC /CC		E 385654.8073		385627.6630		385659.1605		E SC/TC /CC	
				N 868896.3548		869070.2116		869115.6281		N	
		STA		0+025.3377		0+253.4090		0+308.8737		STA	
		CS/CT /CC		E 385637.5427		385640.8707		385685.5918		E CS/CT /CC	
				N 868937.7560		869085.7969		869144.6979		N	
		STA		0+070.4838		0+273.8737		0+348.2933		STA	
		ST/SS		E 385625.4536		385648.7177		385701.5763		E ST/SS	
				N 868953.6803		869098.5762		869156.7110		N	
		STA		0+090.4838		0+288.8737		0+368.2933		STA	
353°35'31.92"		AZIMUTH		321°08'05.41"		50°26'21.37"		30°07'10.11"		54°26'14.19"	

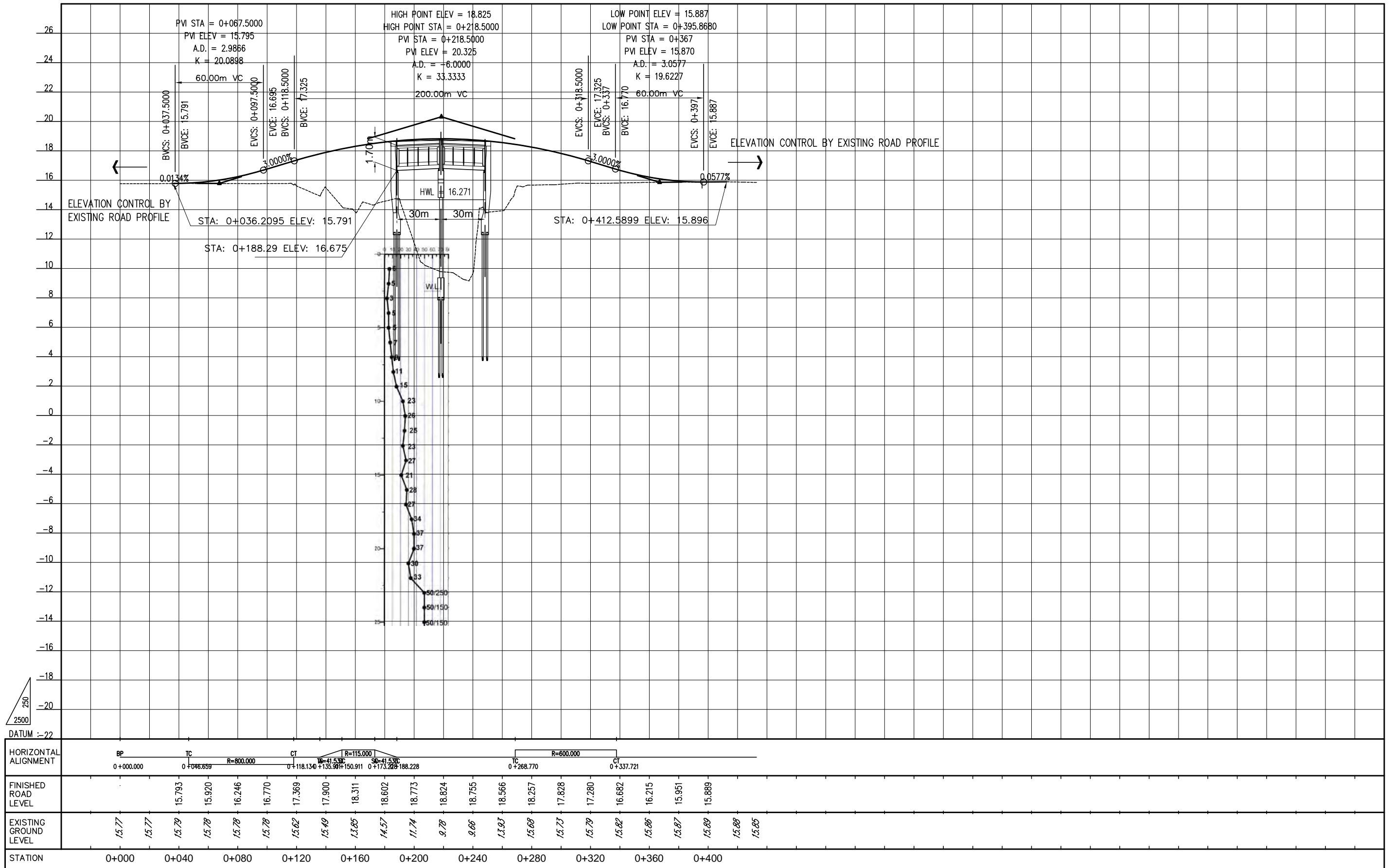


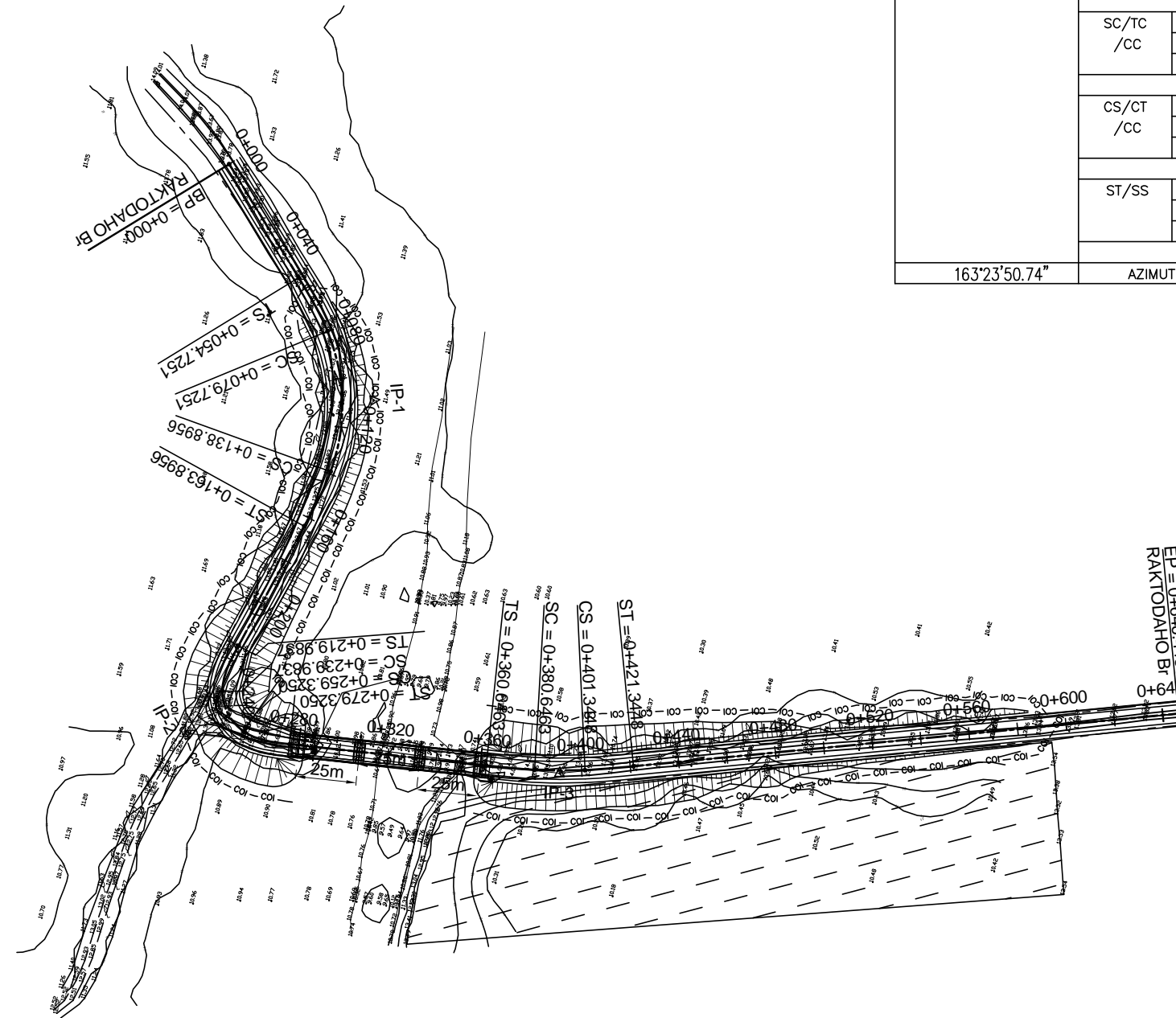
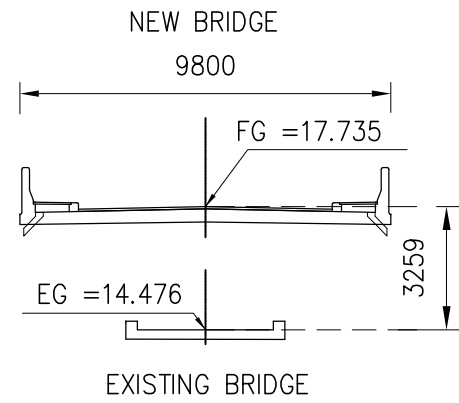




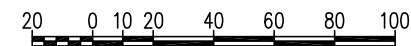
BP		IP-1			IP-2		IP-3		EP	
X	450660.7913	v (Kph)	50	50	50	v (Kph)		X	451083.8514	
Y	739710.6752	TYPE	FULL CIRCLE	SPIRAL-XIRCLE-SPIRAL	FULL CIRCLE	TYPE		Y	739651.3802	
STA	0+000	$\Delta$	5°07'08.36"	18°35'31.36"	6°35'03.55"	$\Delta$		STA	0+432.9688	
		R (m)	800.0000	115.0000	600.0000	R (m)				
		A		41.5331	41.5331	A				
		TS / TC (m)	35.7611	26.3361	26.3361	34.5134	TS / TC (m)			
		LC (m)	71.4746	22.3166		68.9508	LC (m)			
		LS (m)		15.0000	15.0000		LS (m)			
		L (m)	71.4746	52.3170		68.9508	L (m)			
		e max (%)					e max (%)			
		PI	E 450743.1835	450822.5266	450960.8398	E	PI			
			N 739712.8268	739722.0280	739692.6862	N				
		TS/SS	E	450796.3658		E	TS/SS			
			N	739718.9942		N				
			STA	0+135.9114		STA				
		SC/TC /CC	E 450707.4346	450811.2972	450927.0777	E	SC/TC /CC			
			N 739711.8933	739720.3976	739699.8485	N				
			STA 0+046.6592	0+150.9114	0+268.7699	STA				
		CS/CT /CC	E 739716.9463	450833.5544	739681.6998	E	CS/CT /CC			
			N 450778.7065	739719.3553	450993.5579	N				
			STA 0+118.1338	0+173.2281	0+337.7207	STA				
		ST/SS	E	450848.2893		E	ST/SS			
			N	739716.5627		N				
			STA	0+188.2281		STA				
		AZIMUTH	88°30'14.85"	83°23'06.49"	101°58'37.85"	108°33'41.40"	AZIMUTH			

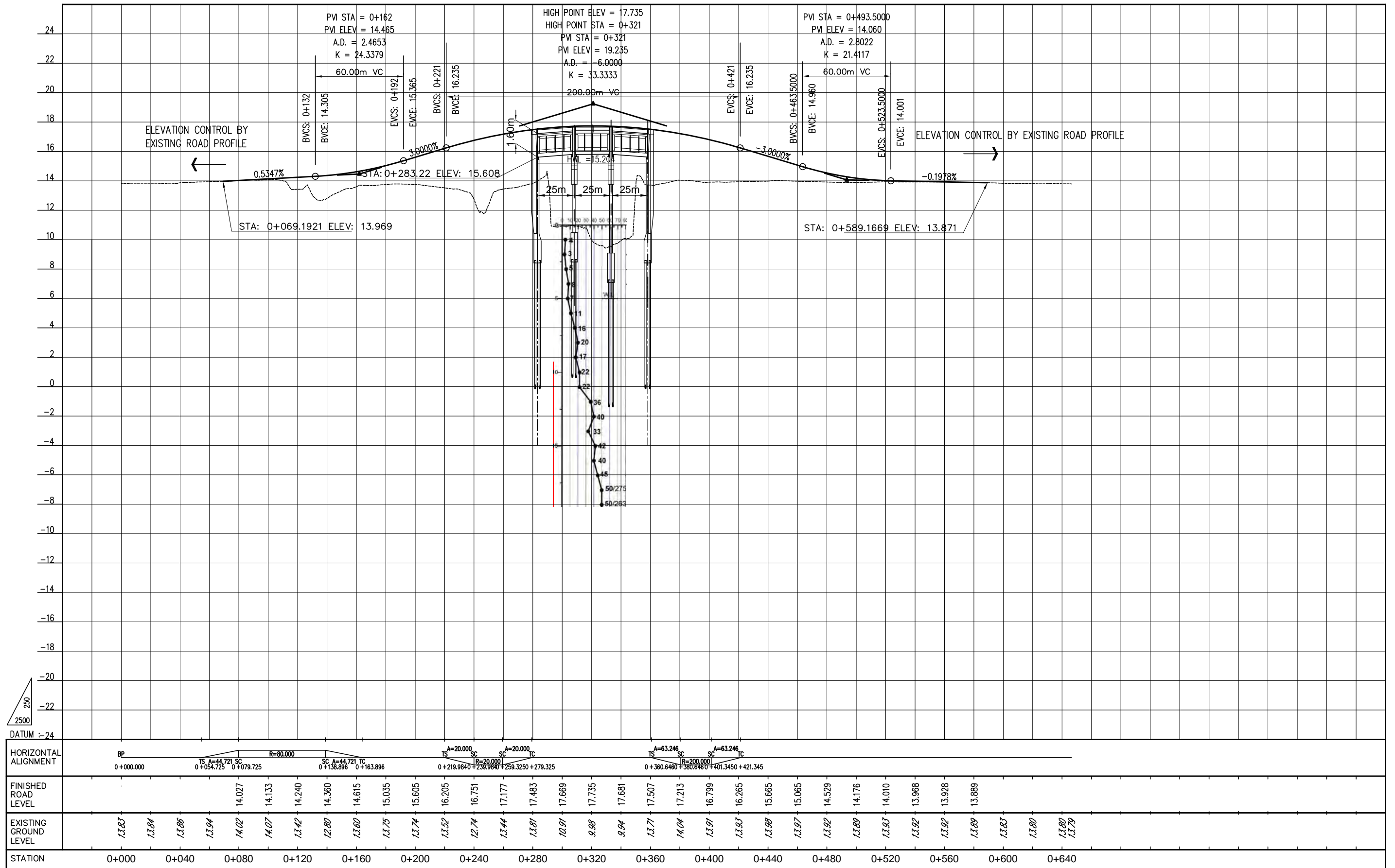


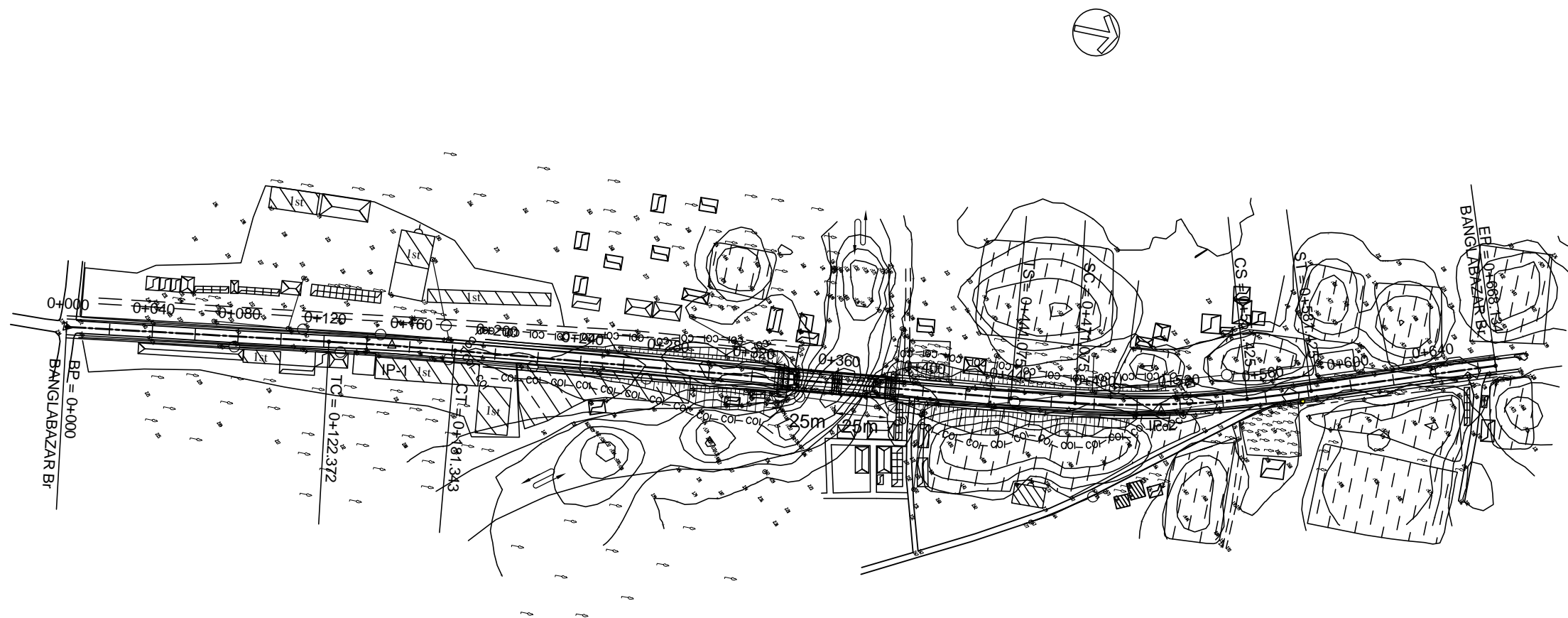




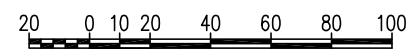
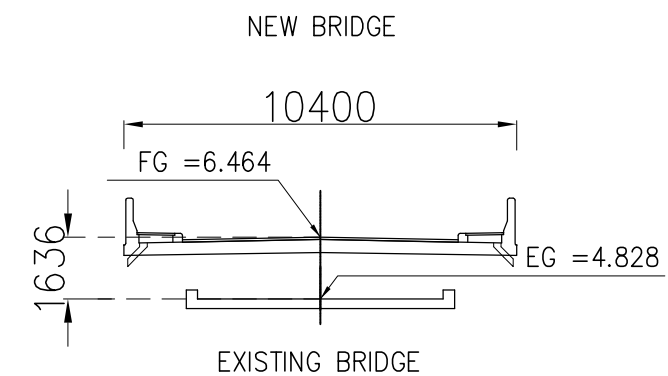
BP		IP-1		IP-2		IP-3		EP		
X	400044.9791	V (Kph)	50	50	50	V (Kph)	X	400364.4563		
Y	741580.7484	TYPE	SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		FULL CIRCLE		Y	741262.3923
STA	0+000	Δ	60°16'57.79"		112°42'16.09"		11°39'33.34"		STA	0+646.4459
		R (m)	80.0000		20.0000		200.0000			
		A	44.7214	44.7214	20.0000	20.0000	63.2456	63.2456		
		TS / TC (m)	59.1302	59.1302	41.2062	41.2062	30.4274	30.4274		
		LC (m)	59.1706		19.3413		20.6985			
		LS (m)	25.0000		20.0000		20.0000			
		L (m)	109.1710		59.3410		60.6990			
		e max (%)								
		PI	E	400077.5112	399969.4794	400112.2983	E	PI		
			N	741471.6397	741358.5125	741303.7590	N			
		TS/SS	E	400060.6158	399997.9377	400083.8872	E	TS/SS		
			N	741528.3048	741388.3131	741314.6511	N			
			STA	0+054.7251	0+219.9837	0+360.6463	STA			
		SC/TC /CC	E	400066.4960	399986.8344	400102.6765	E	SC/TC /CC		
			N	741504.0341	741371.9450	741307.8047	N			
			STA	0+079.7251	0+239.9837	0+380.6463	STA			
		CS/CT /CC	E	400052.9576	399990.9139	400122.6471	E	CS/CT /CC		
			N	741447.8101	741353.8017	741302.3990	N			
			STA	0+138.8956	0+259.3250	0+401.3448	STA			
		ST/SS	E	400036.6739	400007.9549	400142.3244	E	ST/SS		
			N	741428.8763	741343.7618	741298.8332	N			
			STA	0+163.8956	0+279.3250	0+421.3448	STA			
		163°23'50.74"	AZIMUTH		223°40'48.53"	110°58'32.44"	99°18'59.10"	AZIMUTH		



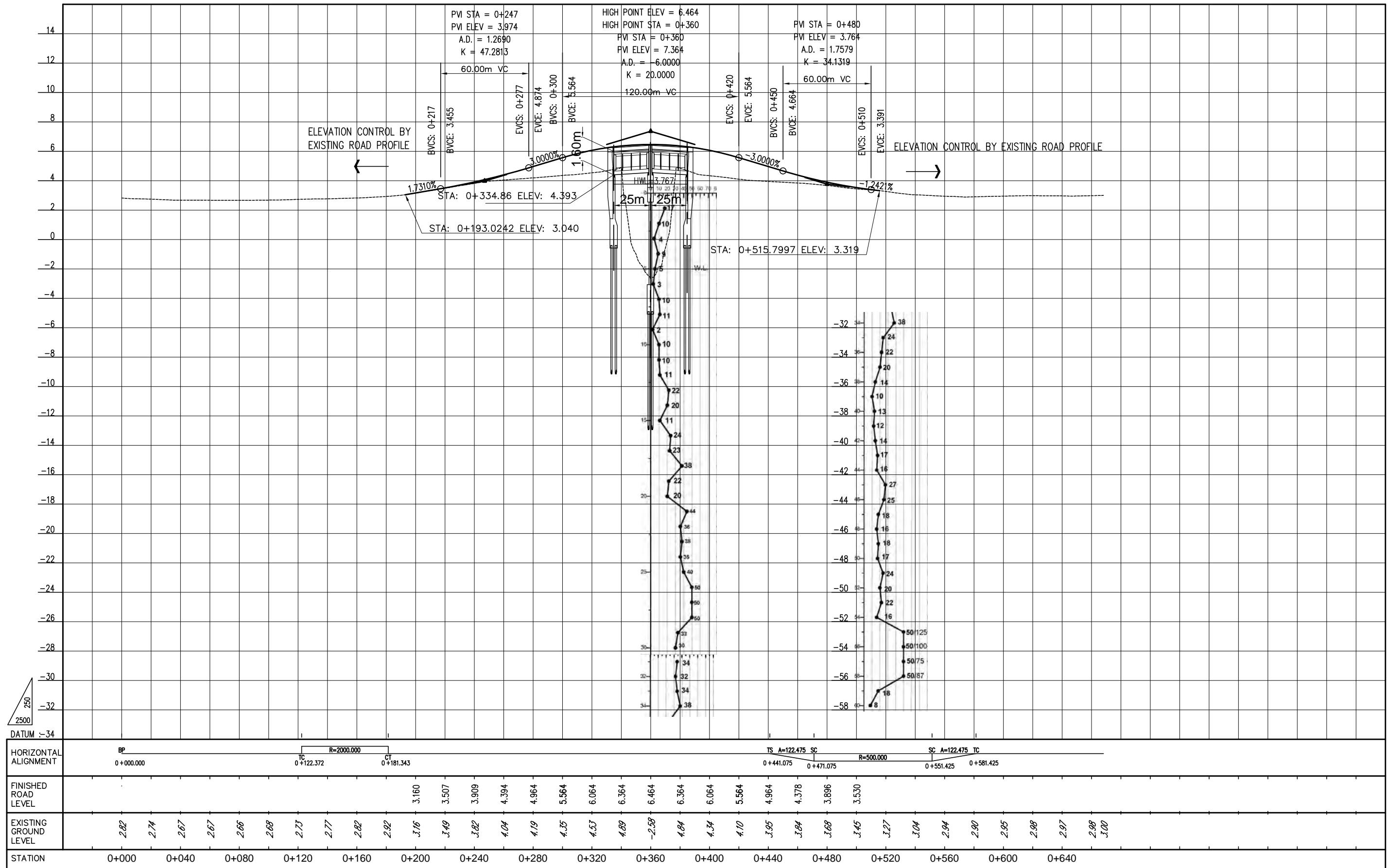


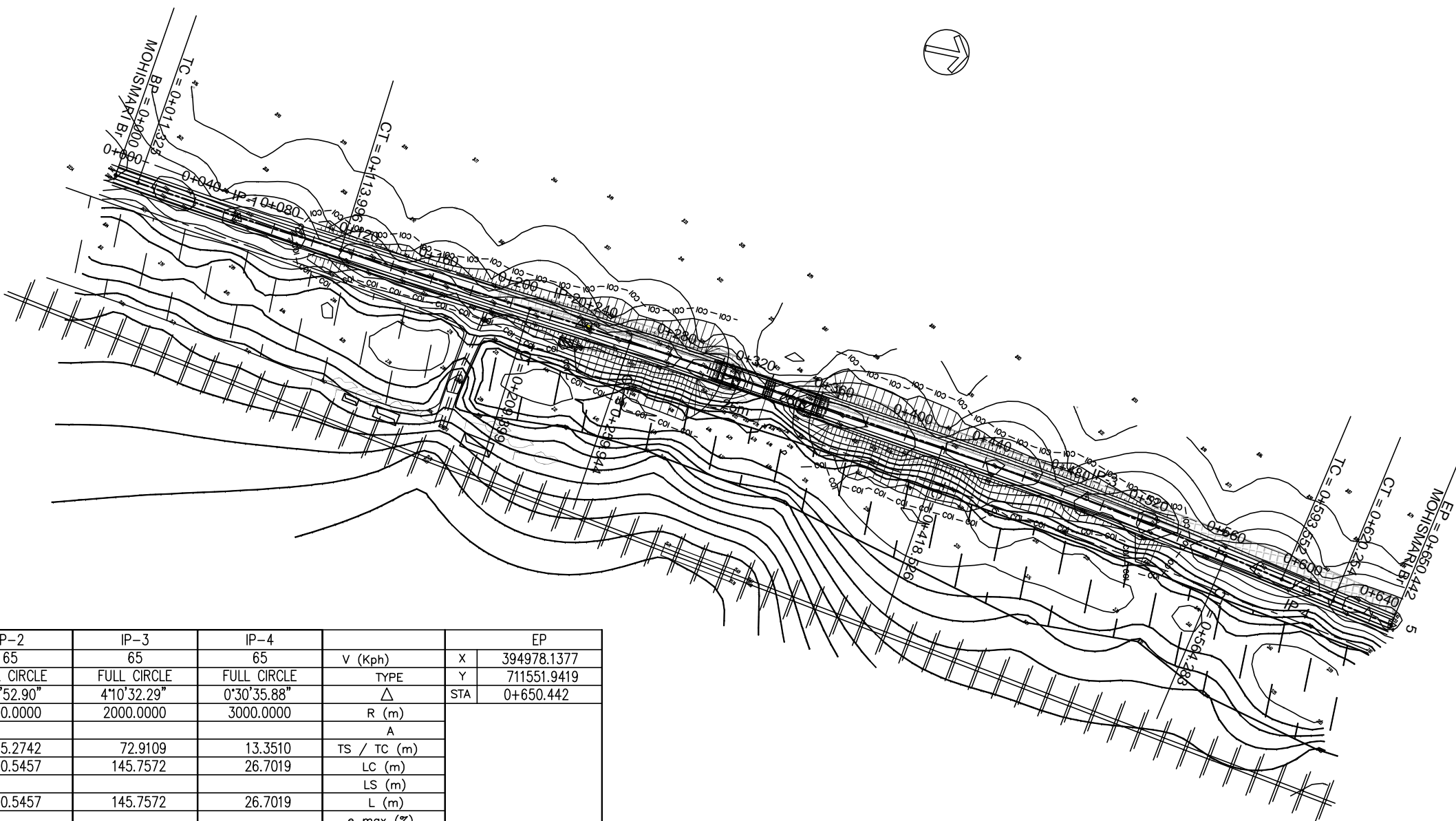


BP		IP-1		IP-2		EP	
X	567981.2905	V (Kph)	65	65	V (Kph)	X	567866.4701
Y	498001.3335	TYPE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	TYPE	Y	498657.2222
STA	0+000	$\Delta$	1°41'21.83"	12°38'42.98"	$\Delta$	STA	0+668.1344
		R (m)	2000.0000	500.0000	R (m)		
		A	122.4745	122.4745	A		
		TS / TC (m)	29.4877	70.4083	70.4083	TS / TC (m)	
		LC (m)	58.9711	80.3508	80.3508	LC (m)	
		LS (m)		30.0000	30.0000	LS (m)	
		L (m)	58.9711	140.3510	140.3510	L (m)	
		e max (%)				e max (%)	
		PI	E	567959.4414	567918.2136	E	PI
			N	498151.6131	498508.8697	N	
		TS/SS	E		567926.2852	E	TS/SS
			N		498438.9256	N	
			STA		0+441.0746	STA	
		SC/TC /CC	E	567963.6840	567922.5484	E	SC/TC /CC
			N	498122.4322	498468.6907	N	
			STA	0+122.3719	0+471.0746	STA	
		CS/CT /CC	E	498180.9064	567904.6218	E	CS/CT /CC
			N	567956.0609	498546.9276	N	
			STA	0+181.3430	0+551.4254	STA	
		ST/SS	E		567895.0260	E	ST/SS
			N		498575.3503	N	
			STA		0+581.4254	STA	
	351°43'39.84"	AZIMUTH	353°25'01.68"	340°46'18.70"		AZIMUTH	

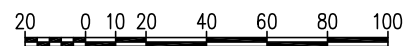
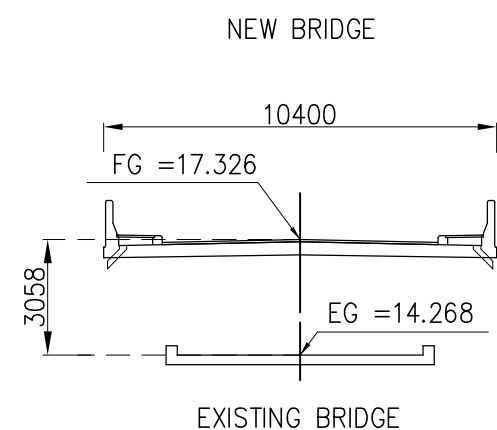


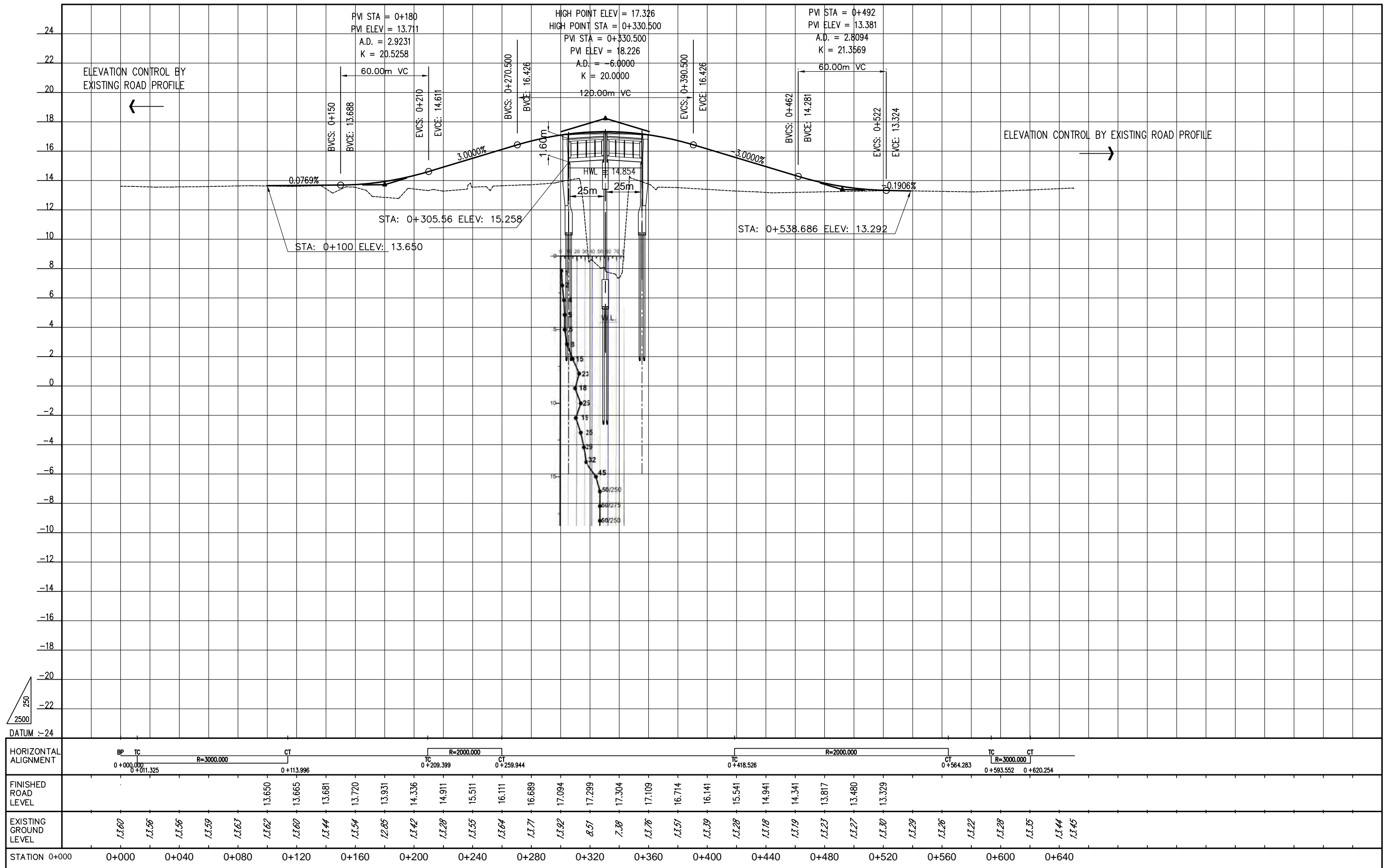


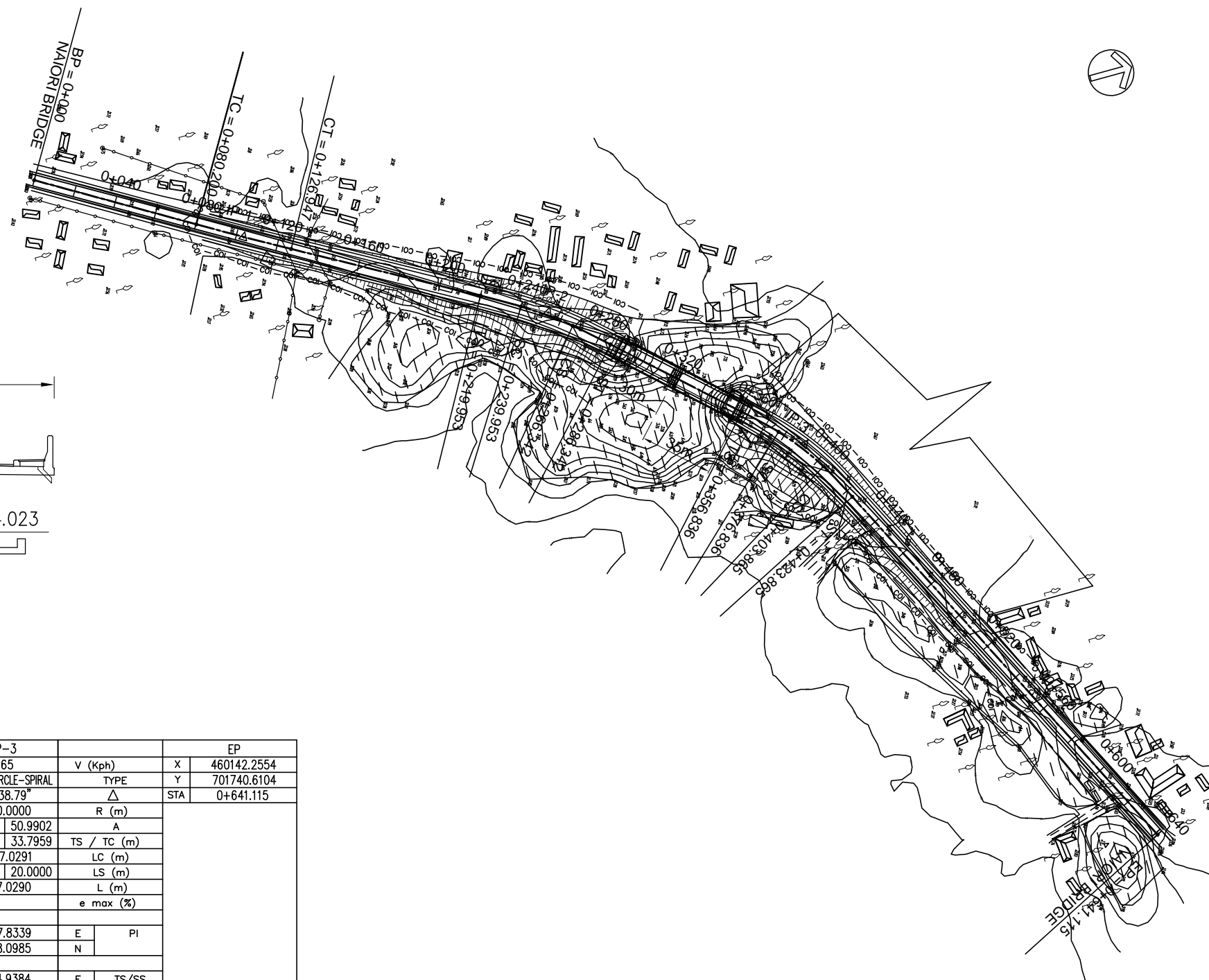
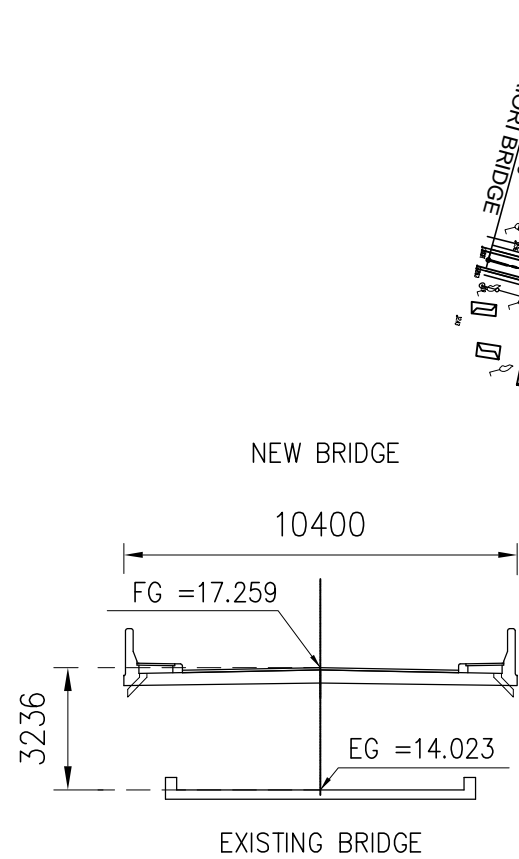




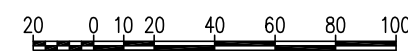
	IP-1	IP-2	IP-3	IP-4		EP
V (Kph)	65	65	65	65	V (Kph)	X 394978.1377
TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE	Y 711551.9419
$\Delta$	1°57'39.17"	1°26'52.90"	4°10'32.29"	0°30'35.88"	$\Delta$	STA 0+650.442
R (m)	3000.0000	2000.0000	2000.0000	3000.0000	R (m)	
A					A	
TS / TC (m)	51.3408	25.2742	72.9109	13.3510	TS / TC (m)	
LC (m)	102.6715	50.5457	145.7572	26.7019	LC (m)	
LS (m)					LS (m)	
L (m)	102.6715	50.5457	145.7572	26.7019	L (m)	
e max (%)					e max (%)	
PI	E 394896.9294 N 710970.1394	E 394914.4024 N 711141.2669	E 394946.9306 N 711395.9647	E 394969.8720 N 711509.1945	PI	
TS/SS	E N STA				E N STA	
SC/TC /CC	E 394889.9697 N 710919.2725 STA 0+011.325	E 394911.8351 N 711116.1235 STA 0+209.399	E 394937.6939 N 711323.6412 STA 0+418.526	E 394967.2209 N 711496.1093 STA 0+593.552	SC/TC /CC	
CS/CT /CC	E 711021.2146 N 394902.1444 STA 0+113.996	E 711166.3375 N 394917.6042 STA 0+259.944	E 711467.4236 N 394961.4088 STA 0+564.283	E 711522.3027 N 394972.4066 STA 0+620.254	CS/CT /CC	
ST/SS	E N STA				E N STA	
AZIMUTH	5°49'47.95"	7°16'40.84"	11°27'13.14"	10°56'37.25"	AZIMUTH	

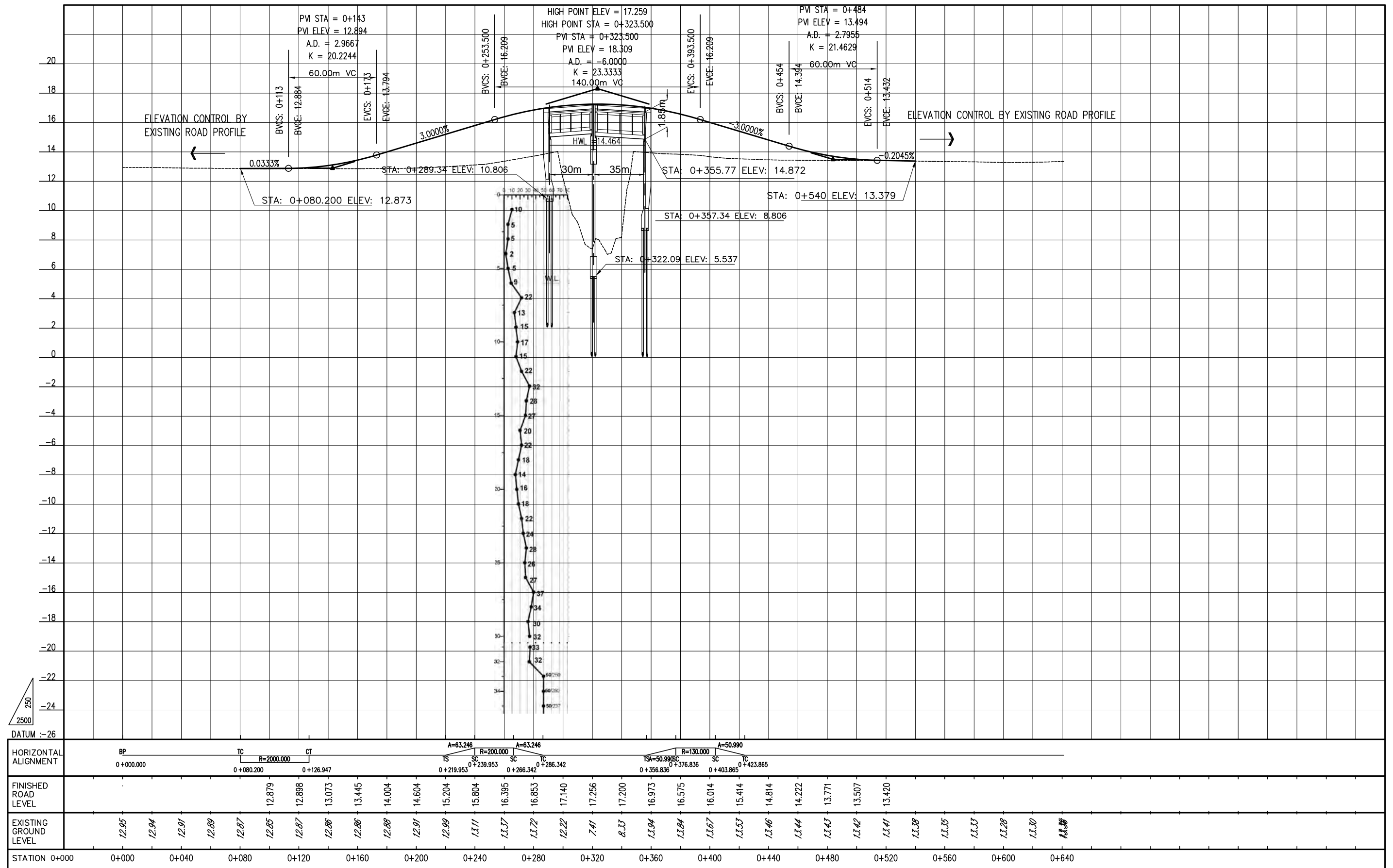




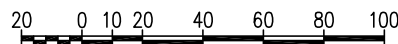
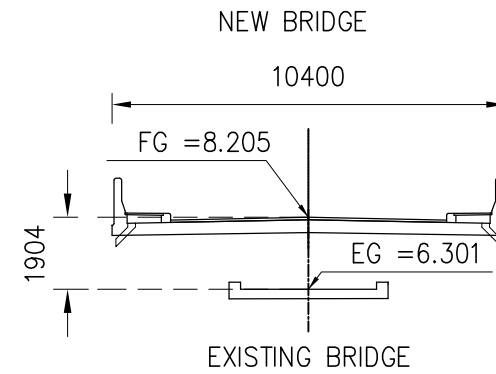


EP		IP-1		IP-2		IP-3		EP	
X	459698.3595	65		65		65		X	460142.2554
Y	701307.3588	FULL CIRCLE		SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		Y	701740.6104
STA	0+000	1°20'21.15"		13°17'22.24"		20°43'38.79"		STA	0+641.115
		R (m)	2000.0000	200.0000	130.0000	130.0000	R (m)		
		A		63.2456	63.2456	50.9902	50.9902	A	
		TS / TC (m)	23.3747	33.3080	33.3080	33.7959	33.7959	TS / TC (m)	
		LC (m)	46.7472	26.3891		27.0291		LC (m)	
		LS (m)		20.0000	20.0000	20.0000	20.0000	LS (m)	
		L (m)	46.7472	66.3890		67.0290		L (m)	
		e max (%)						e max (%)	
		PI	E 459751.2320	459824.6157	459917.8339	E 459917.8339	459917.8339	PI	
			N 701396.4213	701526.8877	701628.0985	N 701628.0985	701628.0985		
		TS/SS	E	459808.2867	459894.9384	E 459894.9384	459894.9384	TS/SS	
			N	701497.8570	701603.2399	N 701603.2399	701603.2399		
			STA	0+219.953	0+356.836	STA 0+356.836	0+356.836		
		SC/TC /cc	E 459739.2998	459818.3795	459908.8567	E 459908.8567	459908.8567	SC/TC /cc	
			N 701376.3217	701515.1209	701617.5950	N 701617.5950	701617.5950		
			STA 0+080.200	0+239.953	0+376.836	STA 0+376.836	0+376.836		
		CS/CT /cc	E 701416.7944	459833.8799	459930.4070	E 459930.4070	459930.4070	CS/CT /cc	
			N 459762.6913	701536.4544	701633.8285	N 701633.8285	701633.8285		
			STA 0+126.947	0+266.342	0+403.865	STA 0+403.865	0+403.865		
		ST/SS	E	459847.1807	459948.0456	E 459948.0456	459948.0456	ST/SS	
			N	701551.3875	701643.2449	N 701643.2449	701643.2449		
			STA	0+286.342	0+423.865	STA 0+423.865	0+423.865		
		30°41'44.60"	AZIMUTH		29°21'23.45"	42°38'45.69"	63°22'24.48"	AZIMUTH	





HORIZONTAL ALIGNMENT	BP 0+000.000	TC 0+080.200	CT 0+126.947	A=63.246 R=2000.000 TS 0+219.953		SC 0+239.953	TC 0+266.342	A=63.246 R=2000.000 TSA=50.9905C 0+356.836		SC 0+376.836	TC 0+403.865	A=50.990 R=130.000 0+423.865																					
FINISHED ROAD LEVEL		12.879	12.898	13.073	13.445	14.004	14.604	15.204	15.804	16.395	16.853	17.140	17.256	17.200	16.973	16.575	16.014	15.414	14.814	14.222	13.771	13.507	13.420										
EXISTING GROUND LEVEL	12.95	12.94	12.91	12.89	12.87	12.85	12.87	12.86	12.86	12.88	12.91	12.99	13.11	13.37	13.72	12.22	7.41	8.33	13.94	13.84	13.67	13.53	13.46	13.44	13.43	13.42	13.41	13.38	13.35	13.33	13.28	13.30	13.28
STATION	0+000	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+320	0+360	0+400	0+440	0+480	0+520	0+560	0+600	0+640															



BP		IP-1	IP-2	IP-3	IP-4	IP-5	EP			
X	540411.3858	V (Kph)	65	20	20	20	65	V (Kph)	X	540789.3357
Y	563907.5409	TYPE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL		TYPE	Y	564044.2728
STA	0+000	Δ	1°51'36.48"	63°43'36.39"	66°43'54.93"	80°44'47.63"	1°59'38.10"	Δ	STA	0+499.6079
		R (m)	1000.0000	35.0000	30.0000	30.0000	1000.0000	R (m)		
		A		26.4575	26.4575	24.4949	21.6687	21.6687	24.4949	
		TS / TC (m)	16.2341	32.0225	32.0225	29.8504	28.0200	33.8211	35.7247	17.4020
		LC (m)	32.4654	18.9285	17.1152	15.6511	15.6511	24.4533	20.0000	34.8004
		LS (m)		20.0000	20.0000	20.0000	20.0000	20.0000	20.0000	
		L (m)	32.4654	58.9290	52.7660	60.1040	60.1040	60.1040	60.1040	34.8004
		e max (%)								
		PI	E 540455.2859	540478.5395	540626.3236	540652.1975	540712.5901	E 540712.5901	PI	
			N 564011.2246	564061.5311	564065.3108	564009.1426	564025.8679	N 564025.8679		
		TS/SS	E	540465.1034	540596.4830	540638.0470	540638.0470	E 540638.0470	TS/SS	
			N	564032.4637	564064.5476	564039.8612	564039.8612	N 564039.8612		
		STA		0+135.9900	0+280.8781	0+333.6444	0+333.6444	STA		
		SC/TC /CC	E 540448.9563	540475.1457	540616.3119	540645.7809	540695.8194	E 540695.8194	SC/TC /CC	
			N 563996.2753	564049.6758	564062.8494	564026.3088	564021.2234	N 564021.2234		
		STA	0+096.3604	0+155.9900	0+300.8781	0+349.2955	0+403.2879	STA		
		CS/CT /CC	E 564025.9607	540490.7691	540630.3131	540666.9764	564029.9261	E 564029.9261	CS/CT /CC	
			N 540462.0975	564059.9496	564053.4135	564015.5232	540729.5122	N 540729.5122		
		STA	0+128.8258	0+174.9184	0+317.9933	0+373.7487	0+438.0883	STA		
		ST/SS	E	540510.5515	540638.0470	540686.6263	540686.6263	E 540686.6263	ST/SS	
			N	564062.3498	564039.8612	564018.6774	564018.6774	N 564018.6774		
		STA		0+194.9184	0+333.6444	0+393.7487	0+393.7487	STA		
		AZIMUTH	22°56'52.88"	24°48'29.36"	88°32'05.75"	155°16'00.67"	74°31'13.04"	76°30'51.14"	AZIMUTH	



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT (RHD)



JICA JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
KATAHIRA & ENGINEERS INTERNATIONAL



No

REVISION

DATE

PREPARATORY SURVEY ON WESTERN BANGLADESH  
BRIDGES IMPROVEMENT PROJECT

PLAN OF PAPRAIL BAILEY BRIDGE (R860\_31a)  
RANK : 67, SN : 77, ZONE : GOPALGANJ, BRIDGE TYPE : PCG

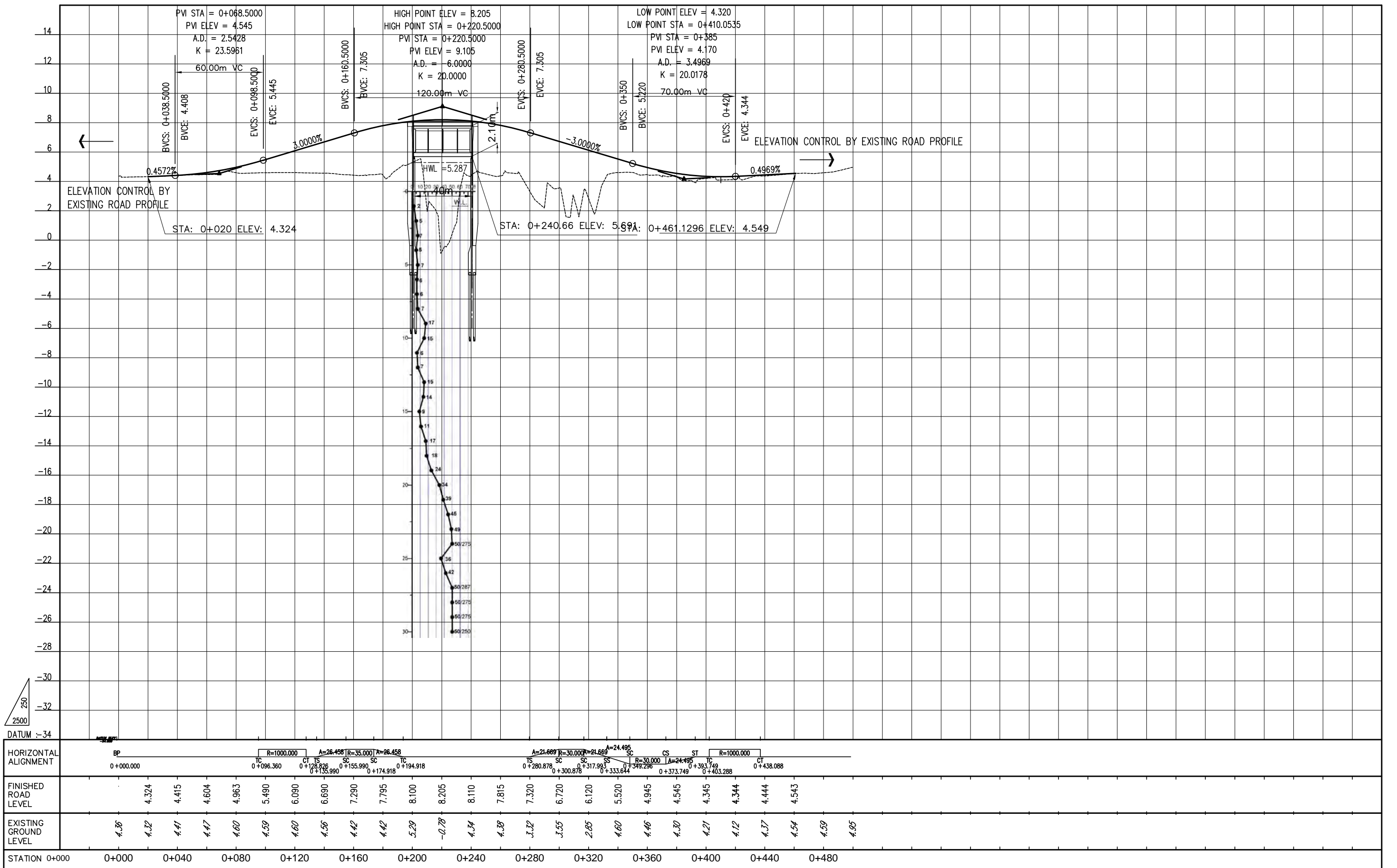
DESIGNED BY:

CHECKED BY:

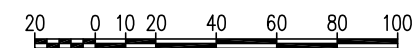
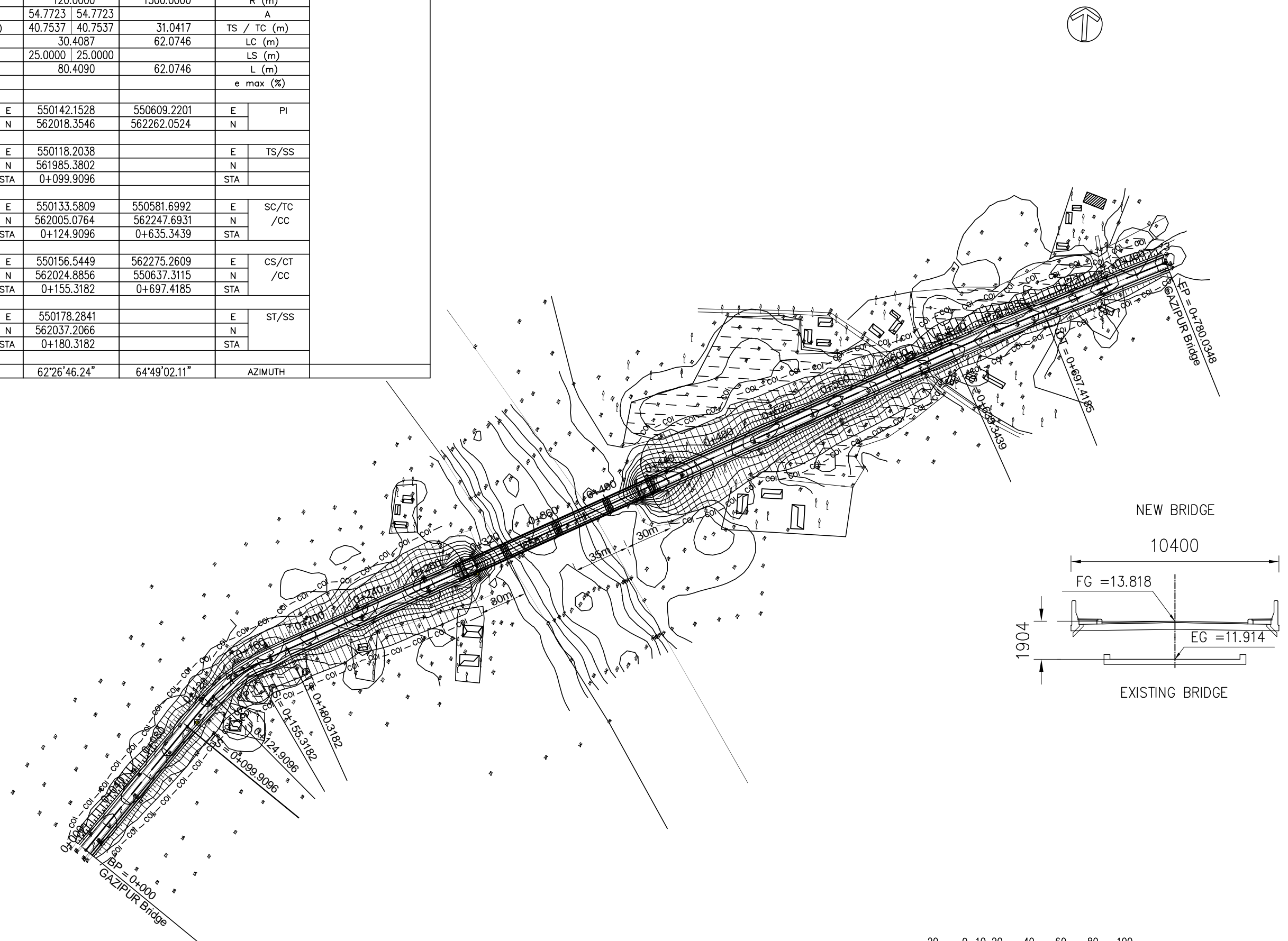
APPROVED BY:

DWG. NO.

BR 067-1

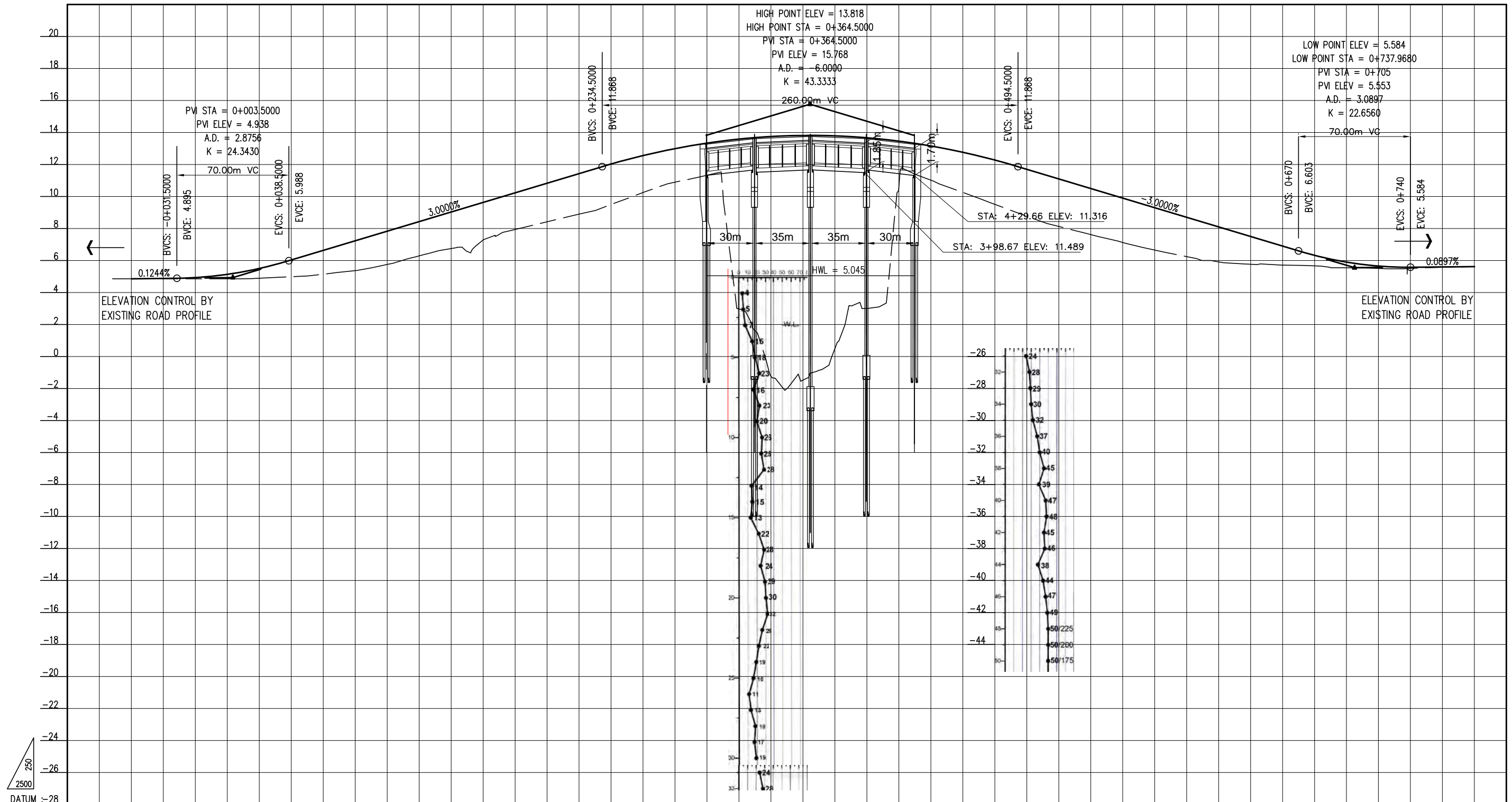


BP		IP-1		IP-2		EP	
X	550059.4918	V (Kph)	65	65	V (Kph)	X	550712.0755
Y	561904.5419	TYPE	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	TYPE	Y	562310.4147
STA	0+000	△	26°27'20.45"	2°22'15.87"	△	STA	0+780.0348
		R (m)	120.0000	1500.0000	R (m)		
		A	54.7723	54.7723	A		
		TS / TC (m)	40.7537	40.7537	31.0417	TS / TC (m)	
		LC (m)	30.4087		62.0746	LC (m)	
		LS (m)	25.0000	25.0000		LS (m)	
		L (m)	80.4090		62.0746	L (m)	
		e max (%)				e max (%)	
		PI	E 550142.1528	550609.2201	E	PI	
			N 562018.3546	562262.0524	N		
		TS/SS	E 550118.2038		E	TS/SS	
			N 561985.3802		N		
			STA 0+099.9096		STA		
		SC/TC /cc	E 550133.5809	550581.6992	E	SC/TC /cc	
			N 562005.0764	562247.6931	N		
			STA 0+124.9096	0+635.3439	STA		
		CS/CT /cc	E 550156.5449	562275.2609	E	CS/CT /cc	
			N 562024.8856	550637.3115	N		
			STA 0+155.3182	0+697.4185	STA		
		ST/SS	E 550178.2841		E	ST/SS	
			N 562037.2066		N		
			STA 0+180.3182		STA		
35°59'25.78"		AZIMUTH	62°26'46.24"	64°49'02.11"	AZIMUTH		



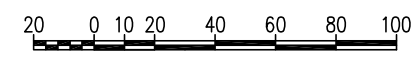
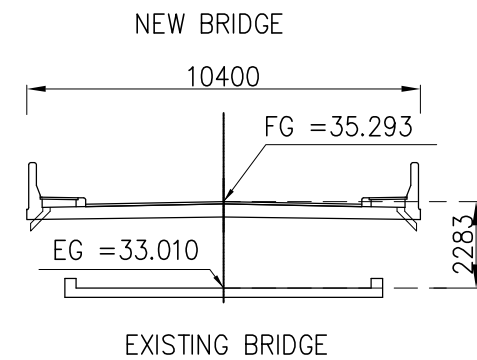
					<b>PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT</b> PLAN OF GAZIPUR BRIDGE (R860_44c) RANK : 68, SN : 84, ZONE : GOPALGANJ, BRIDGE TYPE : PCG	DESIGNED BY:	
						CHECKED BY:	
						APPROVED BY:	
		No	REVISION	DATE		DWG. NO.	BR 068-1



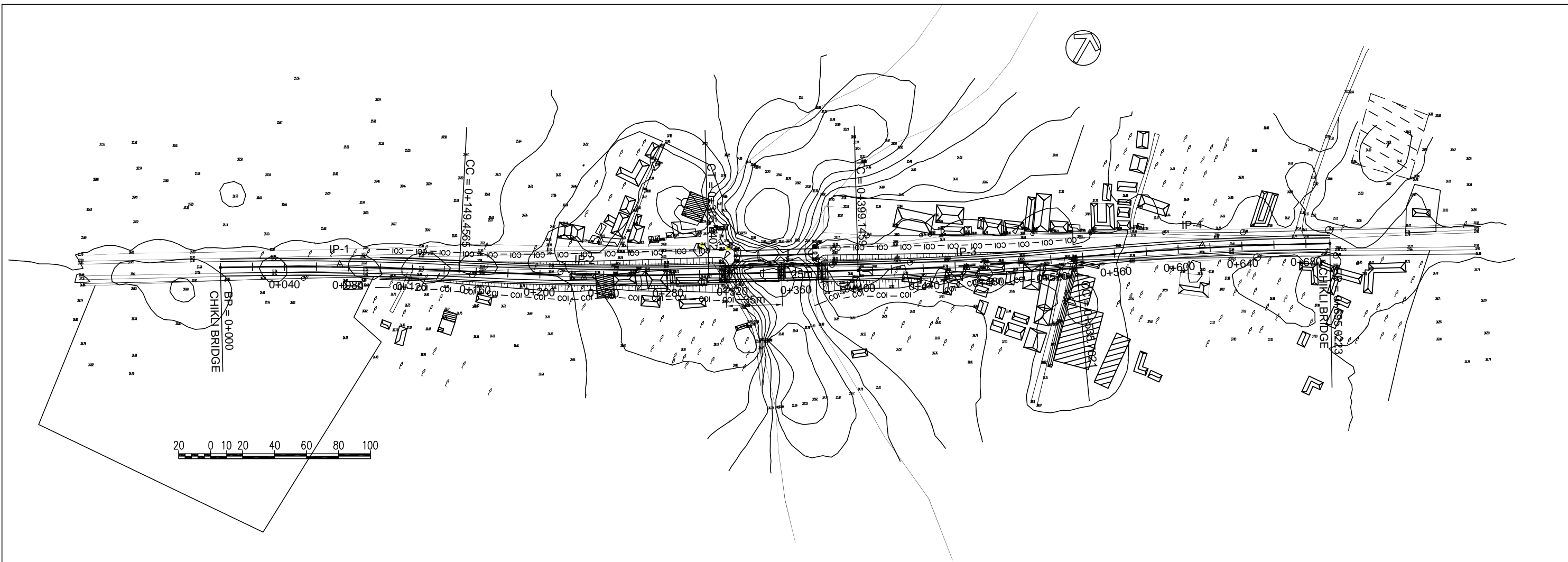


DATUM	-28																																							
HORIZONTAL ALIGNMENT	<p>BP 0+000.000</p> <p>TS 0+099.910    SC 0+124.910    CS 0+155.318    ST 0+180.318</p> <p>TC 0+635.344    CT 0+697.419</p>																																							
FINISHED ROAD LEVEL	5.138	5.503	6.033	6.633	7.233	7.833	8.433	9.033	9.633	10.233	10.833	11.433	12.030	12.558	12.994	13.338	13.590	13.749	13.816	13.790	13.673	13.463	13.160	12.766	12.279	11.703	11.103	10.503	9.903	9.303	8.703	8.103	7.503	6.903	6.325	5.902	5.655	5.584	5.602	5.620
EXISTING GROUND LEVEL	4.66	4.90	4.99	5.15	5.37	5.76	6.29	6.75	7.29	7.94	8.42	8.90	9.50	10.25	10.90	11.33	2.98	-1.22	-1.49	0.50	3.01	10.60	11.03	10.25	9.51	8.78	8.13	7.62	7.13	6.66	6.25	5.92	5.77	5.71	5.67	5.55	5.51	5.51	5.58	5.62
STATION	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+320	0+360	0+400	0+440	0+480	0+520	0+560	0+600	0+640	0+680	0+720	0+760																				

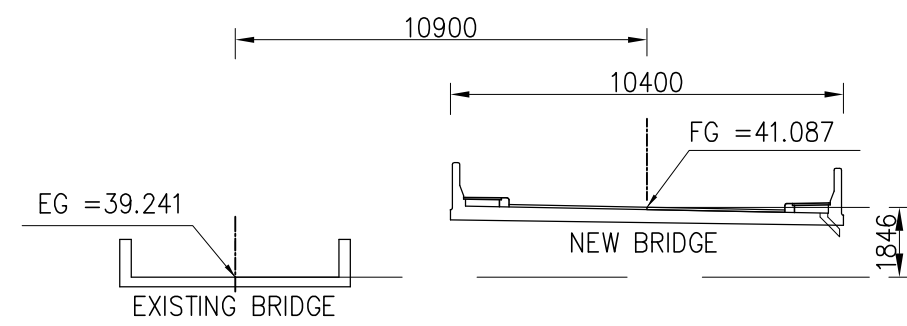
BP		IP-1		IP-2		EP	
X	382998.7673	V (Kph) 50		50		V (Kph)	X 383620.0606
Y	825235.6614	TYPE spiral-circle-apiral		spiral-circle-apiral		TYPE	Y 825235.4909
STA	0+000	Δ 19°54'16.83"		29°09'36.79"		Δ	STA 0+639.9690
R (m)		300.0000		175.0000		R (m)	
A		86.6025	86.6025	66.1438	66.1438	A	
TS / TC (m)		65.1553	65.1553	58.0558	58.0558	TS / TC (m)	
LC (m)		79.2206		64.0648		LC (m)	
LS (m)		25.0000	25.0000	25.0000	25.0000	LS (m)	
L (m)		129.2210		114.0650		L (m)	
e max (%)						e max (%)	
PI		E 383395.1274		383575.1017		E	PI
		N 825304.2420		825272.2219		N	
TS/SS		E 383330.9260		383517.9435		E	TS/SS
		N 825293.1335		825282.3912		N	
		STA 0+337.0942		0+525.9042		STA	
SC/TC /cc		E 383355.6149		383542.4402		E	SC/TC /cc
		N 825297.0530		825277.4285		N	
		STA 0+362.0942		0+550.9042		STA	
CS/CT /cc		E 383434.6053		383600.3338		E	CS/CT /cc
		N 825296.8656		825250.8392		N	
		STA 0+441.3148		0+614.9690		STA	
ST/SS		E 383459.2754		383620.0606		E	ST/SS
		N 825292.8291		825235.4909		N	
		STA 0+466.3148		0+639.9690		STA	
80°11'00.72"		AZIMUTH 100°05'17.55"		129°14'54.34"		AZIMUTH	

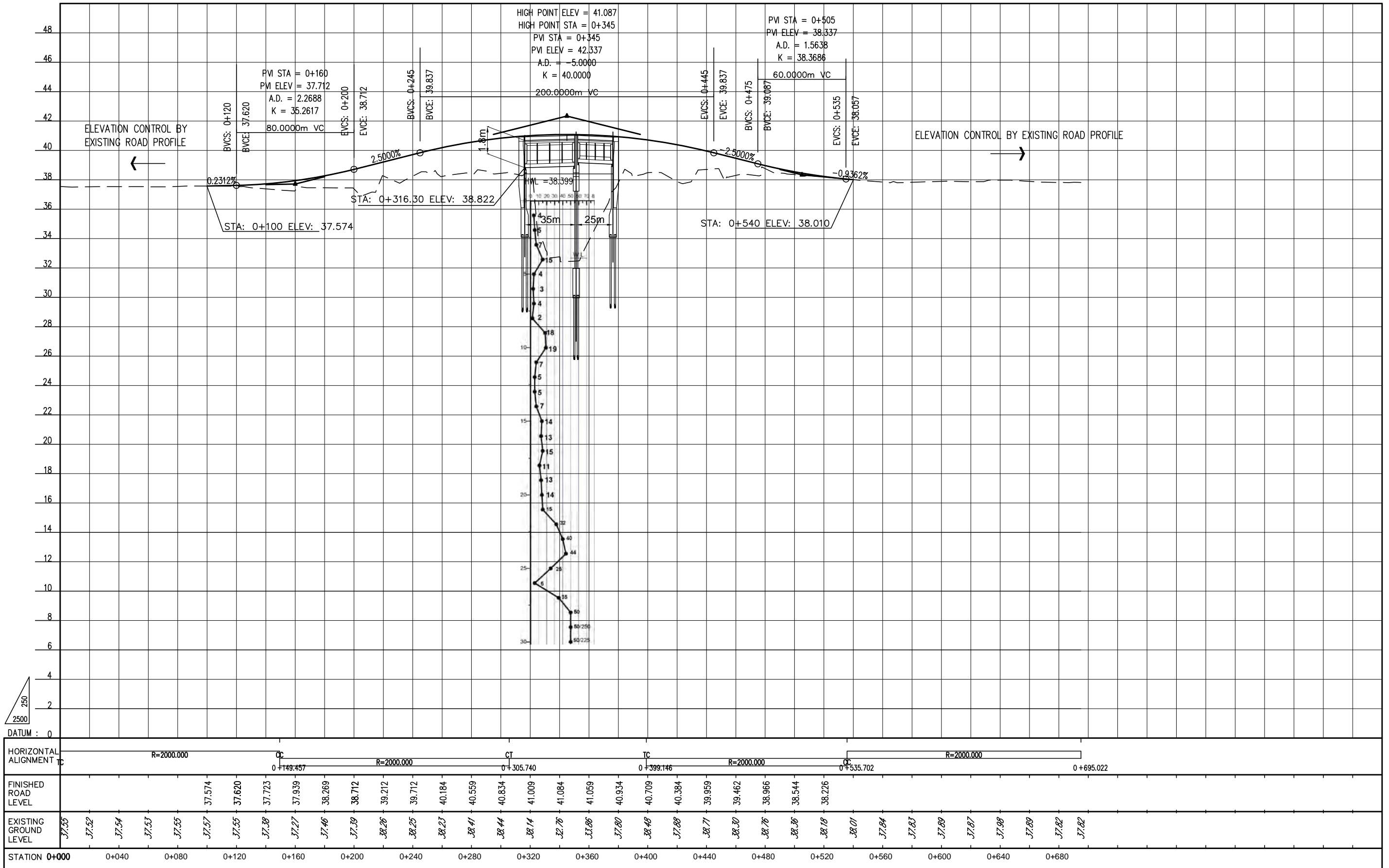




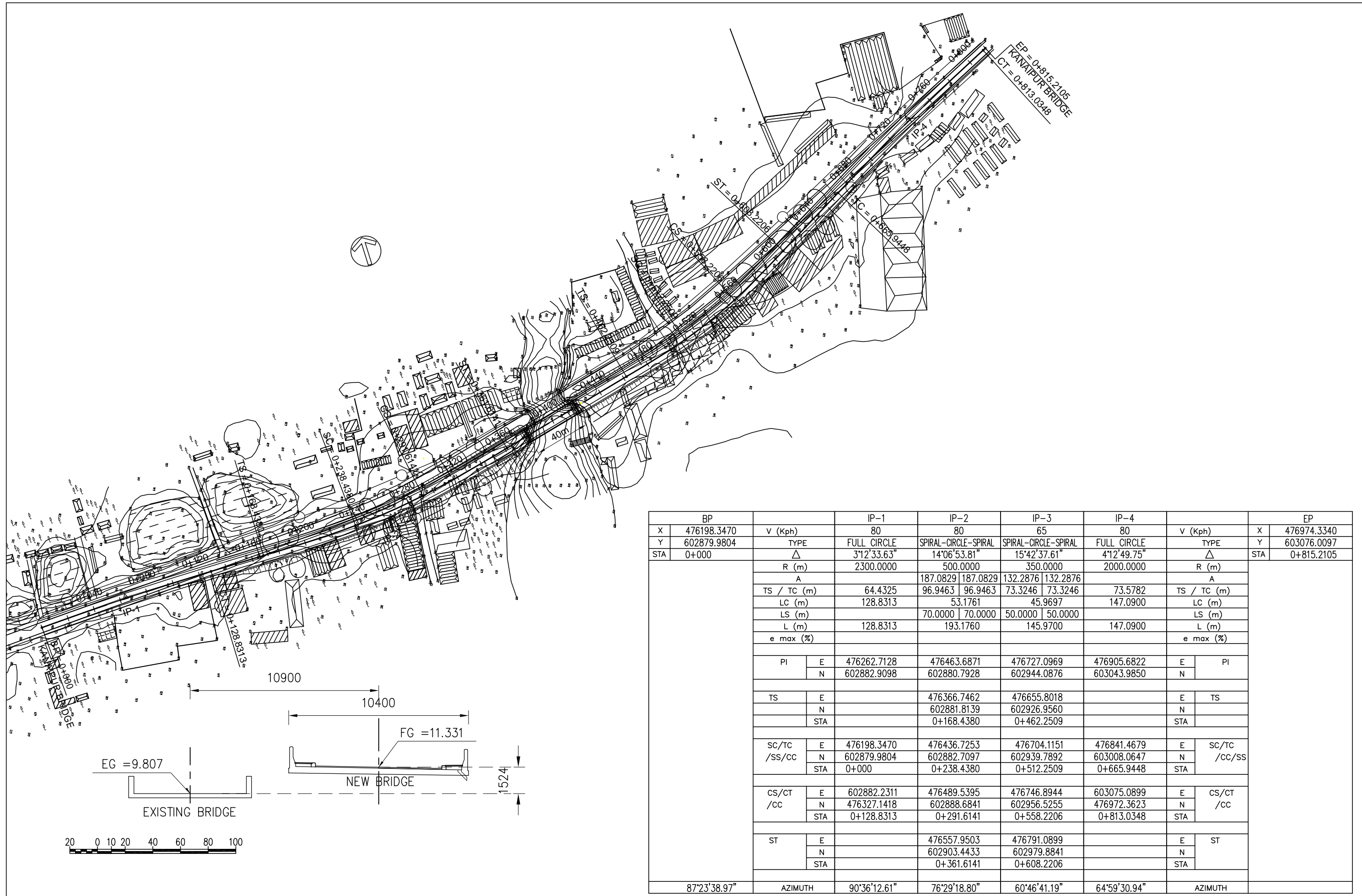


BP		IP-1				IP-2				IP-3				IP-4				EP	
X	395284.3999	V (Kph)		80		80		80		80		V (Kph)		80		X	395879.0205		
Y	853073.4645	TYPE		FULL CIRCLE		FULL CIRCLE		FULL CIRCLE		FULL CIRCLE		TYPE		FULL CIRCLE		Y	853432.2876		
STA	0+000	Δ		4°16'53.81"		4°28'37.92"		3°54'43.37"		4°33'51.07"		Δ		4°33'51.07"		STA	0+695.0223		
		R (m)		2000.0000		2000.0000		2000.0000		2000.0000		R (m)		2000.0000					
		A										A							
		TS / TC (m)		74.7630		78.1816		68.3047		79.7022		TS / TC (m)		79.7022					
		LC (m)		149.4565		156.2837		136.5562		159.3202		LC (m)		159.3202					
		LS (m)										LS (m)							
		L (m)		149.4565		156.2837		136.5562		159.3202		L (m)		159.3202					
		e max (%)										e max (%)							
		PI		E		395348.3758		395484.7963		395689.6508		395810.4916		E		PI			
				N		853112.1503		853181.2988		853306.1299		853391.5908		N					
		TS		E										E		TS			
				N										N					
		STA												STA					
		SC/TC		E		395284.3999		395415.0614		395631.3224		395745.4184		E		SC/TC			
		/SS/CC		N		853073.4645		853145.9518		853270.5866		853345.5698		N		/CC/SS			
		STA		0+000		0+149.4565		0+399.1459		0+535.7021		0+695.0223		STA					
		CS/CT		E		853145.9518		853221.9817		853345.5698		853432.2876		E		CS/CT			
		/CC		N		395415.0614		395551.5591		395745.4184		395879.0205		N		/CC			
		STA		0+149.4565		0+305.7402		0+535.7021		0+695.0223		0+695.0223		STA					
		ST		E										E		ST			
				N										N					
		STA												STA					
58°50'20.21"		AZIMUTH		63°07'14.01"		58°38'36.10"		54°43'52.73"		59°17'43.80"		59°17'43.80"		AZIMUTH					

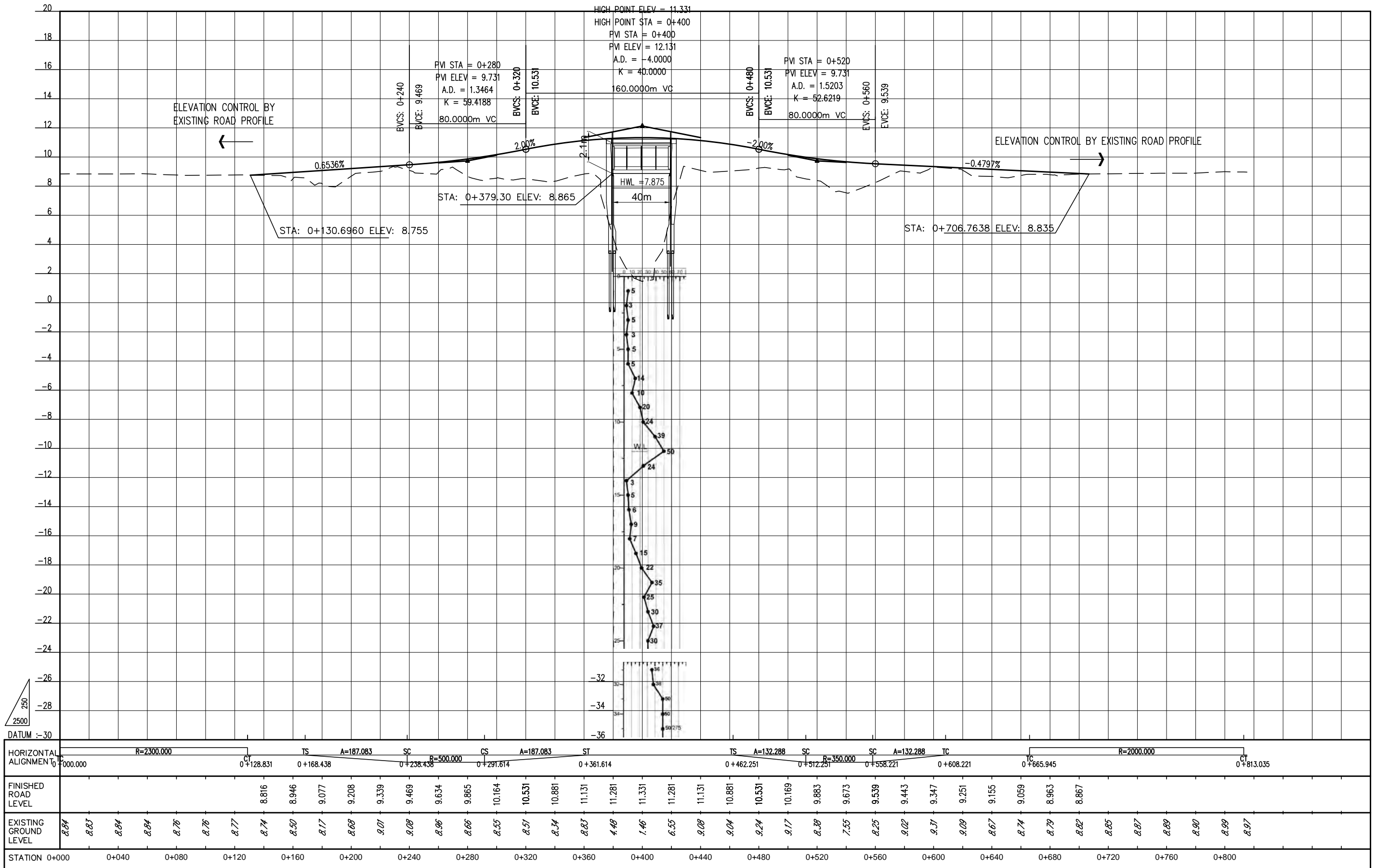


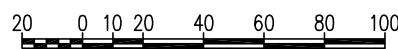
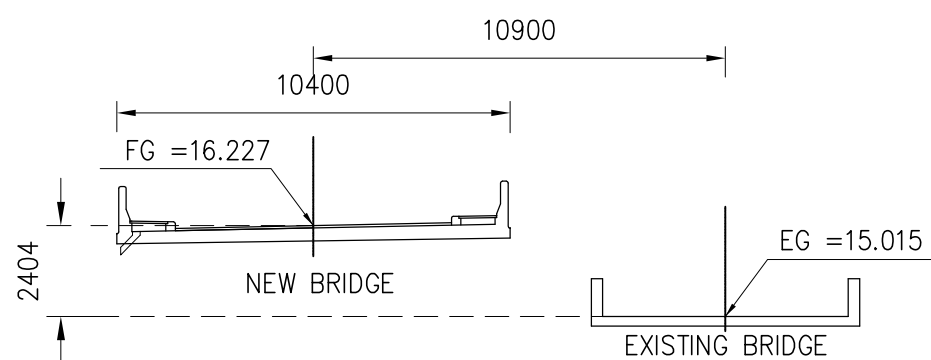
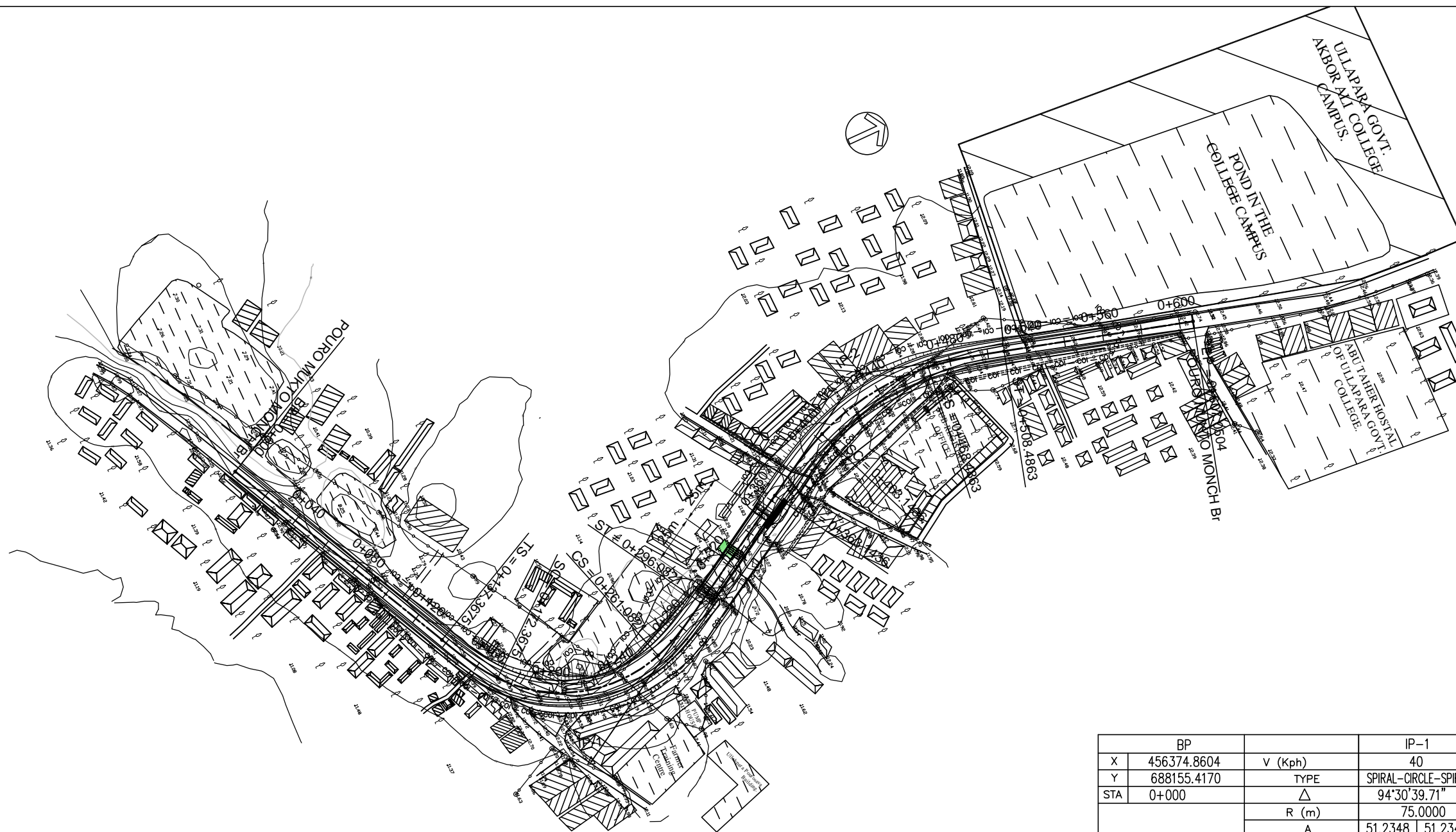


STATION	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+320	0+360	0+400	0+440	0+480	0+520	0+560	0+600	0+640	0+680																			
HORIZONTAL ALIGNMENT																																					
FINISHED ROAD LEVEL				37.574	37.620	37.723	37.939	38.269	38.712	39.212	39.712	40.184	40.559	40.834	41.009	41.084	41.059	40.934	40.709	40.384	39.959	39.462	38.966	38.544	38.226												
EXISTING GROUND LEVEL	37.55	37.52	37.54	37.53	37.55	37.57	37.55	37.620	37.723	37.939	38.269	38.712	39.212	39.712	40.184	40.559	40.834	41.009	41.084	41.059	40.934	40.709	40.384	39.959	39.462	38.966	38.544	38.226	38.01	37.84	37.83	37.89	37.87	37.98	37.89	37.82	37.82



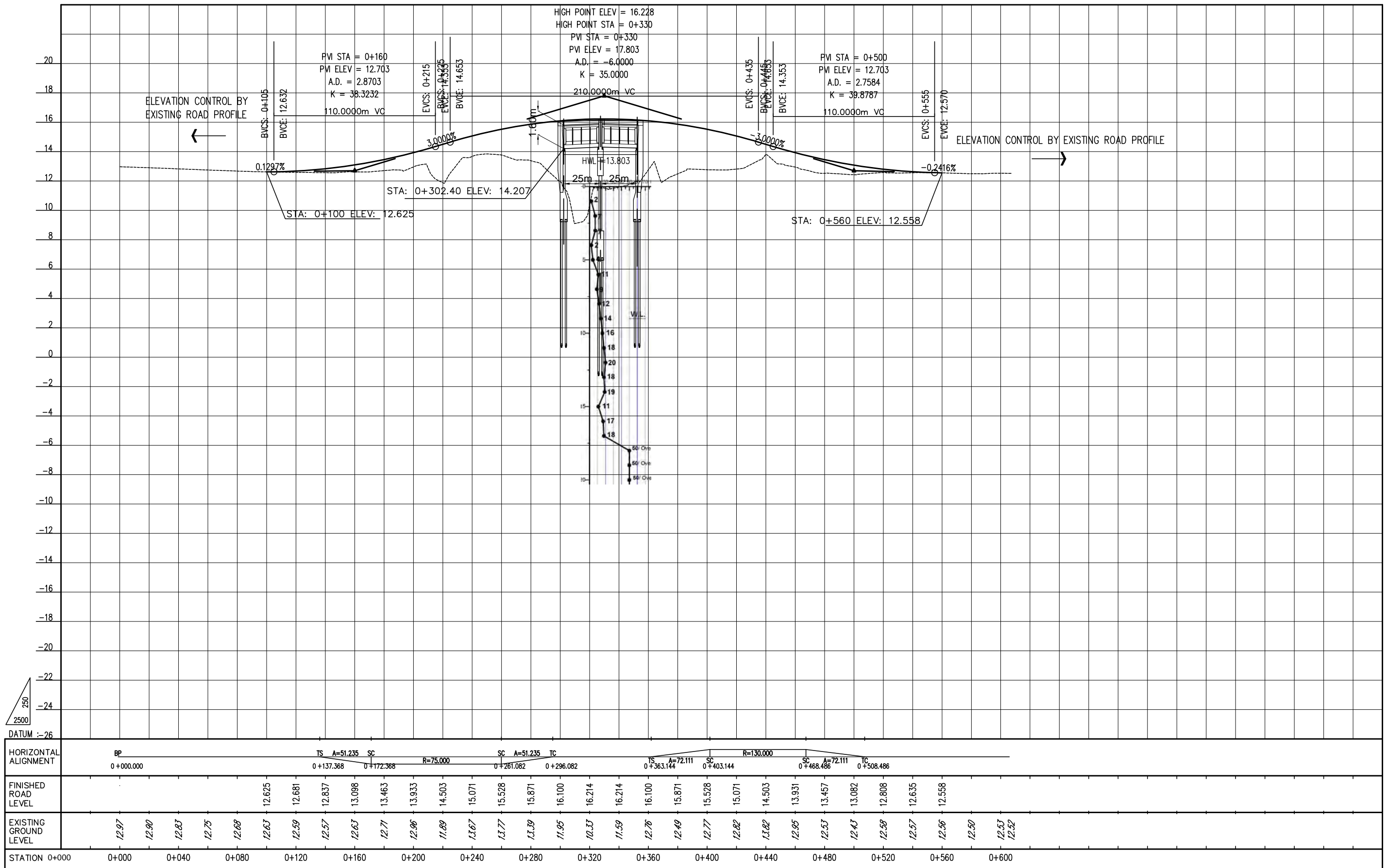
BP		IP-1	IP-2	IP-3	IP-4	EP			
X	476198.3470	V (Kph)	80	80	65	80	V (Kph)	X	476974.3340
Y	602879.9804	TYPE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	TYPE	Y	603076.0097
STA	0+000	$\Delta$	31'2"33.63"	14'06"53.81"	15'42"37.61"	4'12"49.75"	$\Delta$	STA	0+815.2105
		R (m)	2300.0000	500.0000	350.0000	2000.0000	R (m)		
		A		187.0829   187.0829	132.2876   132.2876		A		
		TS / TC (m)	64.4325	96.9463   96.9463	73.3246   73.3246	73.5782	TS / TC (m)		
		LC (m)	128.8313	53.1761	45.9697	147.0900	LC (m)		
		LS (m)		70.0000   70.0000	50.0000   50.0000		LS (m)		
		L (m)	128.8313	193.1760	145.9700	147.0900	L (m)		
		e max (%)					e max (%)		
		PI	E 476262.7128 N 602882.9098	476463.6871 602880.7928	476727.0969 602944.0876	476905.6822 603043.9850	E N	PI	
		TS		E 476366.7462 N 602881.8139 STA 0+168.4380	476655.8018 602926.9560 0+462.2509		E N STA	TS	
		SC/TC /SS/CC	E 476198.3470 N 602879.9804 STA 0+000	476436.7253 602882.7097 0+238.4380	476704.1151 602939.7892 0+512.2509	476841.4679 603008.0647 0+665.9448	E N STA	SC/TC /CC/SS	
		CS/CT /CC	E 602882.2311 N 476327.1418 STA 0+128.8313	476489.5395 602888.6841 0+291.6141	476746.8944 602956.5255 0+558.2206	603075.0899 476972.3623 0+813.0348	E N STA	CS/CT /CC	
		ST		E 476557.9503 N 602903.4433 STA 0+361.6141	476791.0899 602979.8841 0+608.2206		E N STA	ST	
		AZIMUTH	87°23'38.97"	90°36'12.61"	76°29'18.80"	60°46'41.19"	64°59'30.94"	AZIMUTH	

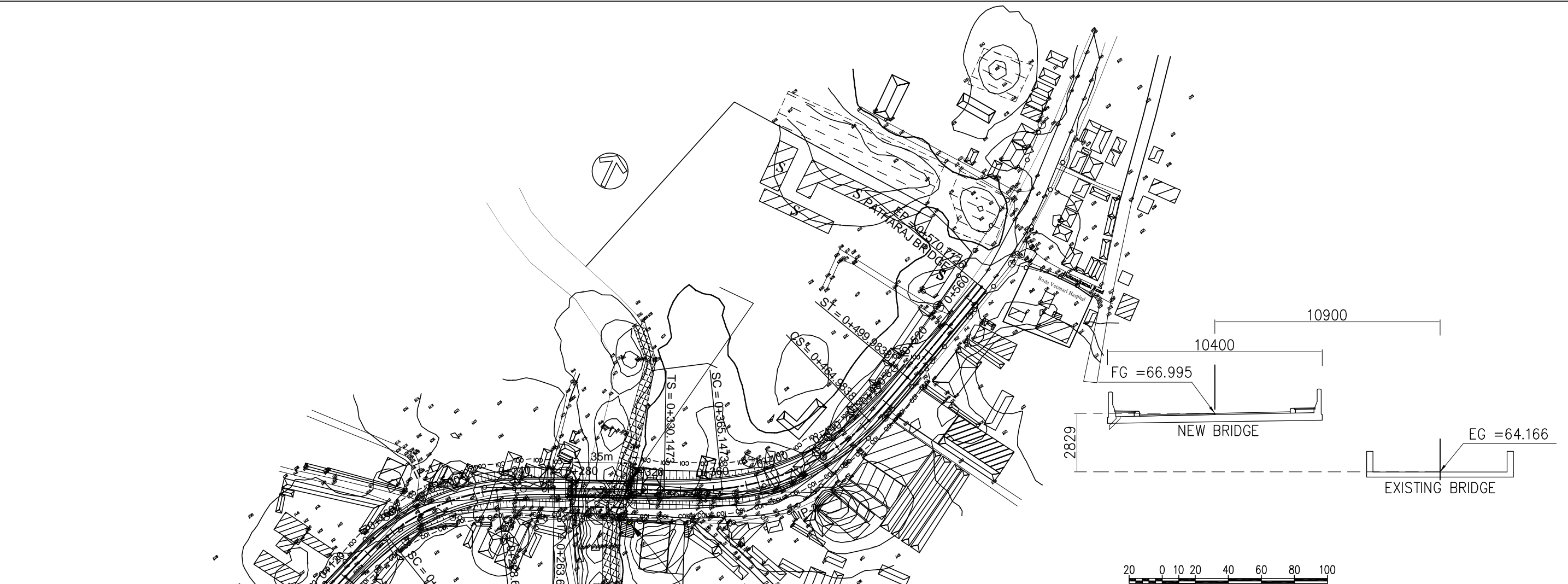




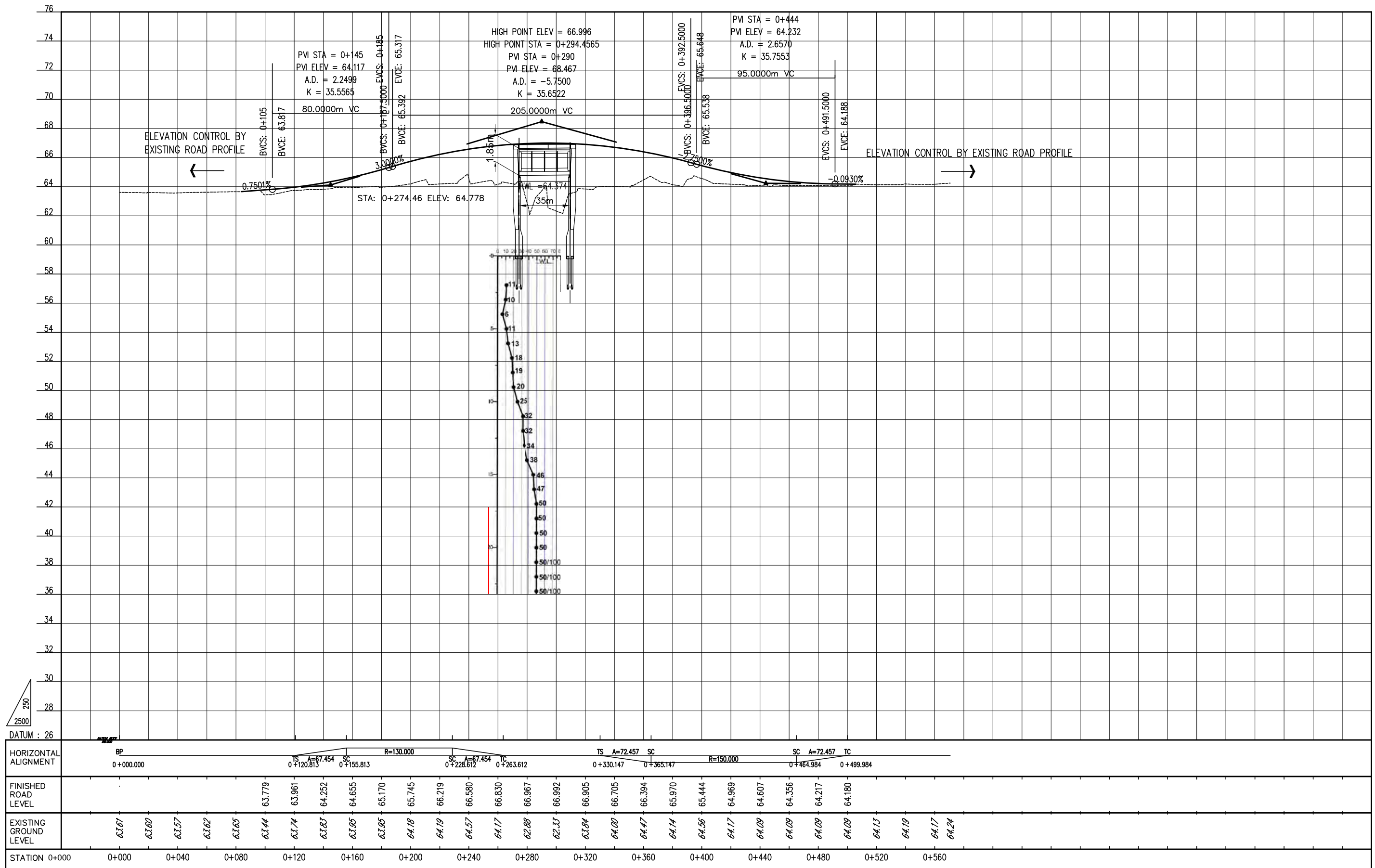
BP		IP-1		IP-2		EP	
X	456374.8604	V (Kph) 40		50		V (Kph)	
Y	688155.4170	TYPE SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		TYPE	
STA	0+000	94°30'39.71"		46°25'42.24"		△	
R (m)		75.0000		130.0000		R (m)	
A		51.2348	51.2348	72.1110	72.1110	A	
TS / TC (m)		99.3534	99.3534	75.9602	75.9602	TS / TC (m)	
LC (m)		88.7146		65.3427		LC (m)	
LS (m)		35.0000	35.0000	40.0000	40.0000	LS (m)	
L (m)		158.7150		145.3430		L (m)	
e max (%)						e max (%)	
PI		E	456587.0077	456462.7227	E	PI	
		N	688260.4424	688468.5263	N		
TS		E	456497.9680	456501.6735	E	TS	
		N	688216.3625	688403.3129	N		
		STA	0+137.3675	0+363.1436	STA		
SC/TC /SS/CC		E	456527.9613	456482.9689	E	SC/TC /CC/SS	
		N	688234.2367	688438.6226	N		
		STA	0+172.3675	0+403.1436	STA		
CS/CT /CC		E	456551.5831	456474.3785	E	CS/CT /CC	
		N	688314.4638	688502.7064	N		
		STA	0+261.0821	0+468.4863	STA		
ST		E	456536.0613	456483.1234	E	ST	
		N	688345.7393	688541.6957	N		
		STA	0+296.0821	0+508.4863	STA		
63°39'42.77"		AZIMUTH		329°09'03.06"	15°34'45.30"	AZIMUTH	

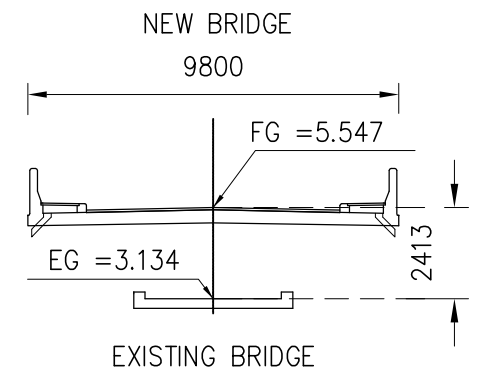
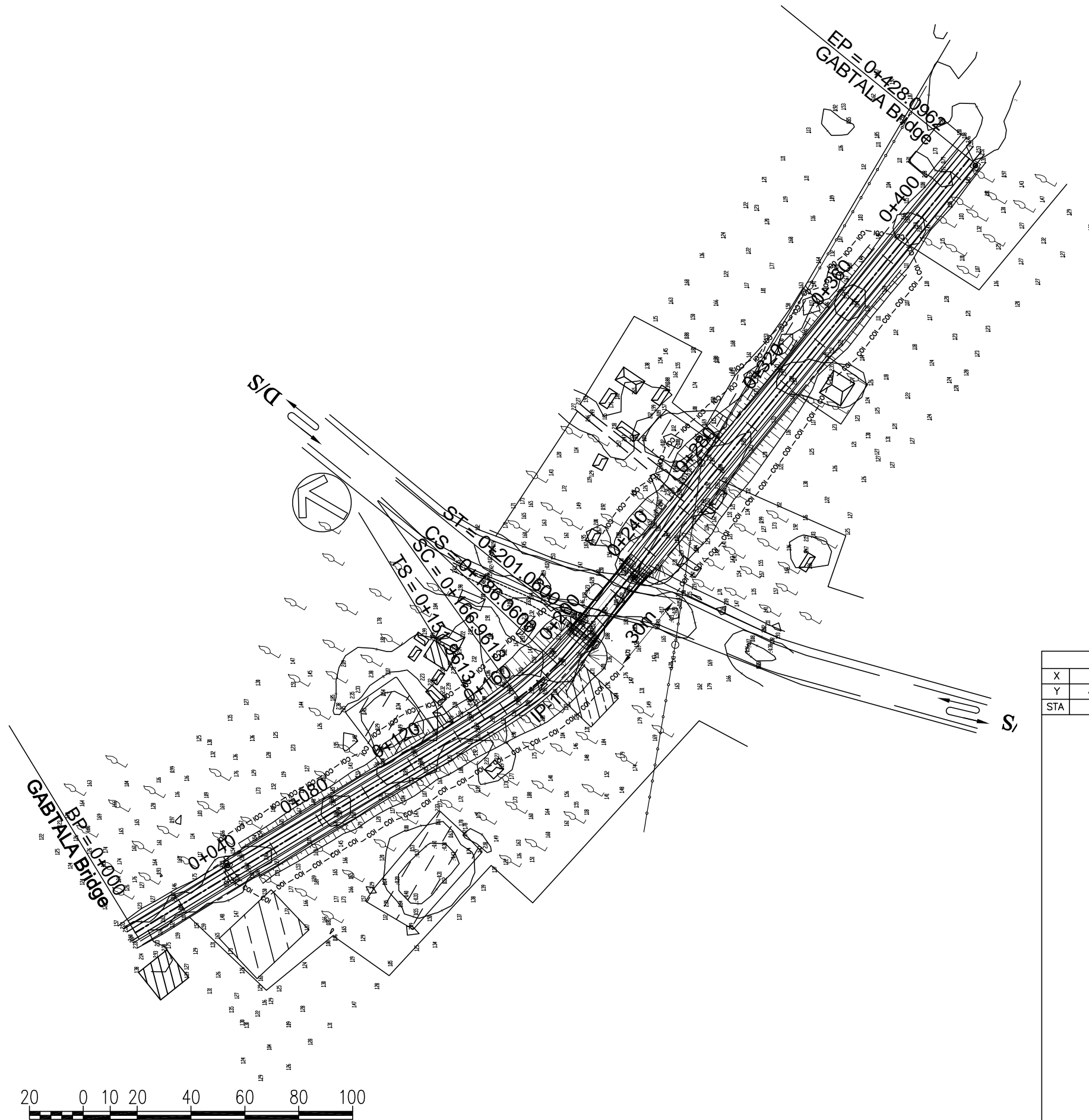




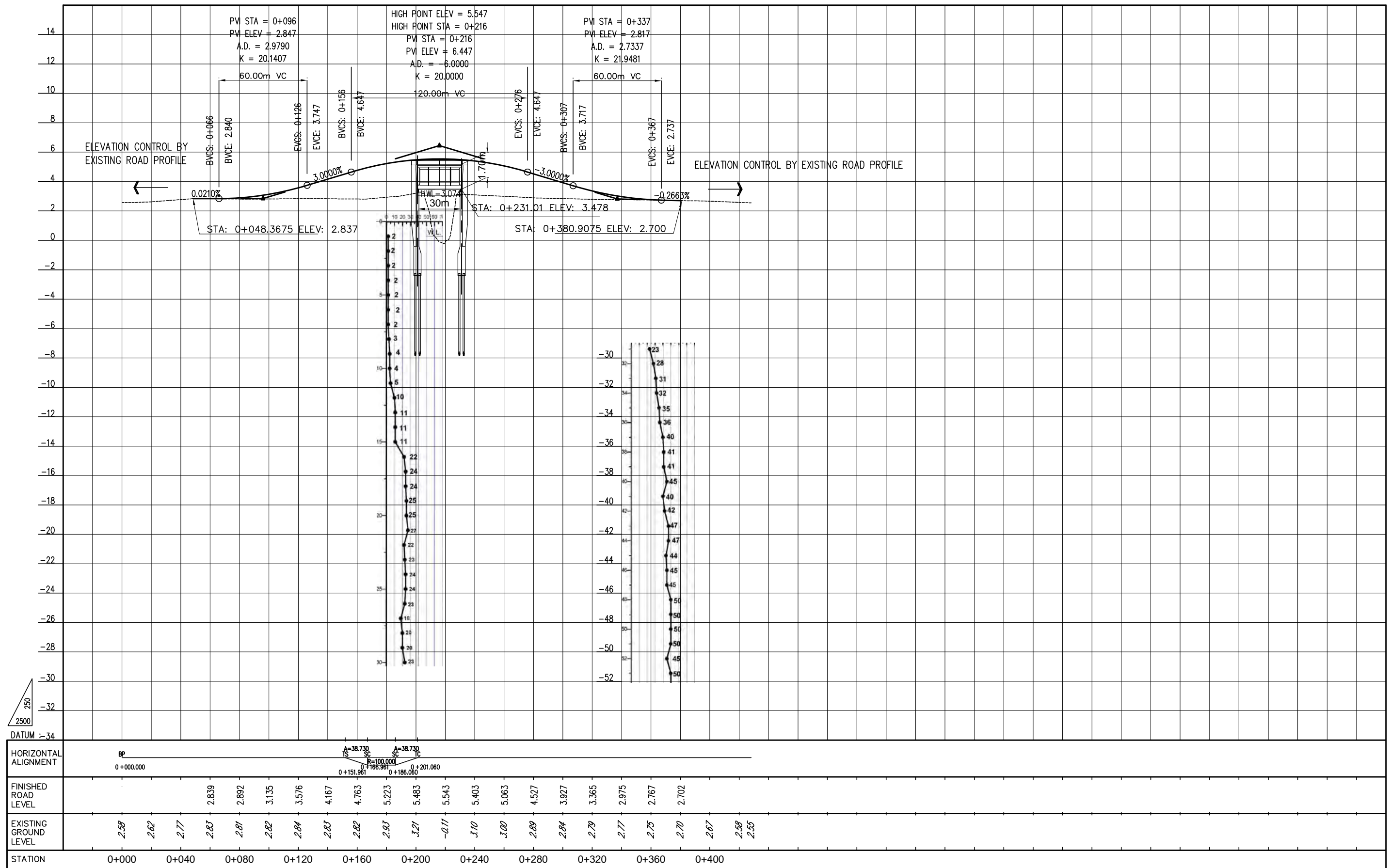


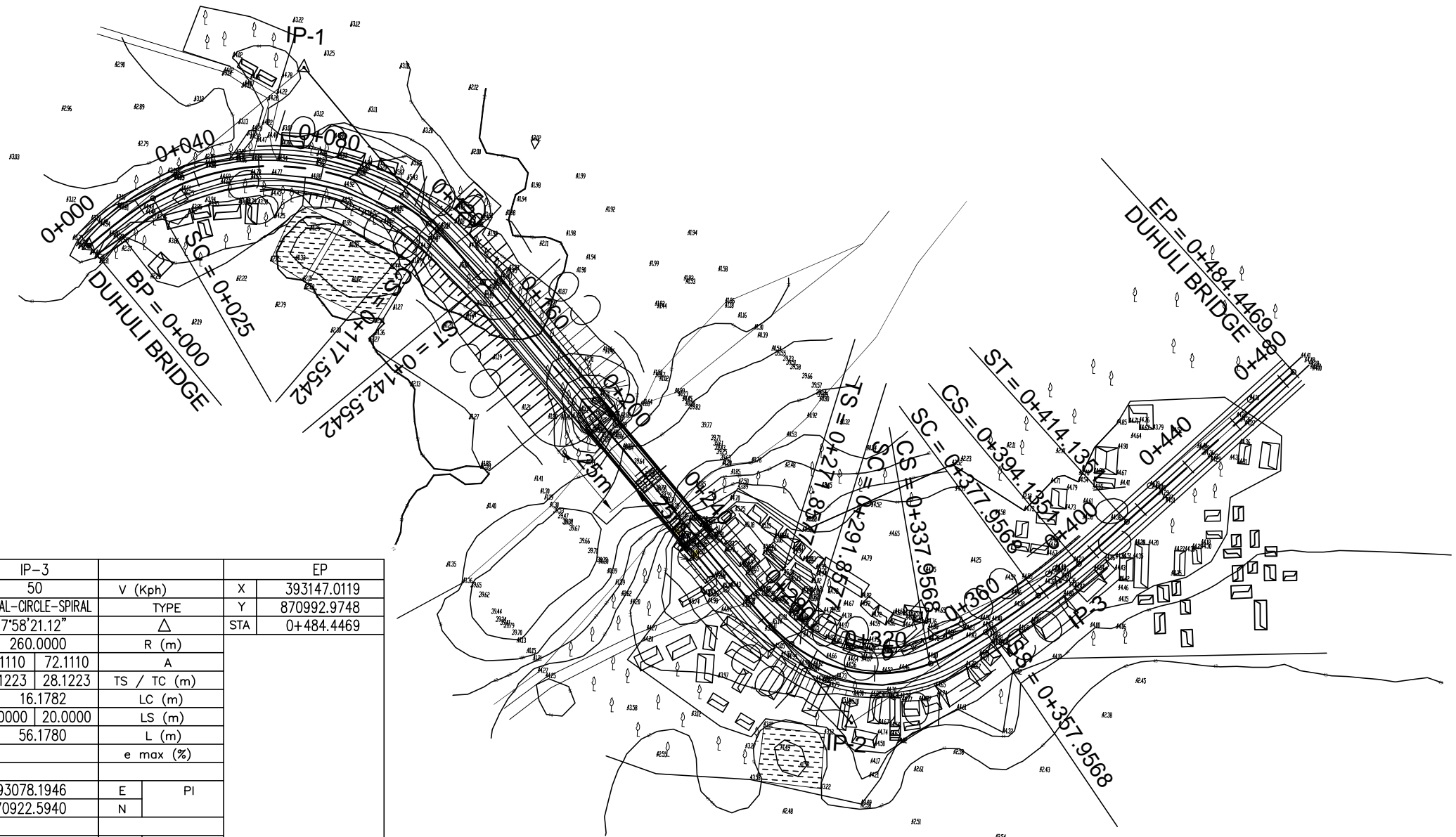
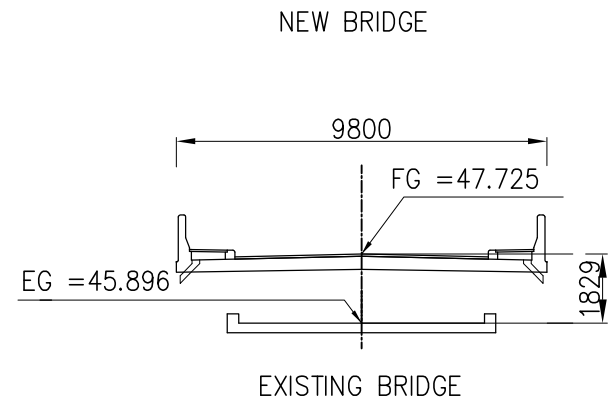
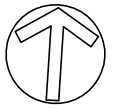
BP		IP-1		IP-2		EP	
X	355604.5208	V (Kph) 50		V (Kph) 50		X	355915.6859
Y	897835.3579	TYPE SPIRAL-CIRCLE-SPIRAL		TYPE SPIRAL-CIRCLE-SPIRAL		Y	898272.5292
STA	0+000	Δ 47°30'38.26"		Δ 51°30'13.55"		STA	0+570.7126
R (m)		130.0000		150.0000		R (m)	
A		67.4537		72.4569		A	
TS / TC (m)		74.8779		90.0136		TS / TC (m)	
LC (m)		72.7982		99.8365		LC (m)	
LS (m)		35.0000		35.0000		LS (m)	
L (m)		142.7980		169.8370		L (m)	
e max (%)						e max (%)	
PI		E 355665.4943		E 355876.3597		PI	
		N 898021.3076		N 898116.6717			
TS		E 355642.1638		E 355794.3436		TS	
		N 897950.1572		N 898079.5798			
STA		0+120.8134		0+330.1473		STA	
SC/TC /SS/CC		E 355654.5398		E 355825.6302		SC/TC /CC/SS	
		N 897982.8659		N 898095.2216			
STA		0+155.8134		0+365.1473		STA	
CS/CT /CC		E 355702.5332		E 355888.5122		CS/CT /CC	
		N 898036.3371		N 898170.3923			
STA		0+228.6116		0+464.9838		STA	
ST		E 355733.7194		E 355898.3818		ST	
		N 898052.1625		N 898203.9498			
STA		0+263.6116		0+499.9838		STA	
18°09'16.12"		AZIMUTH 65°39'54.38"		AZIMUTH 14°09'40.83"		AZIMUTH	



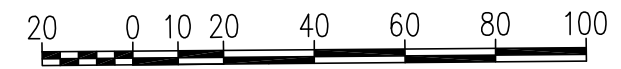


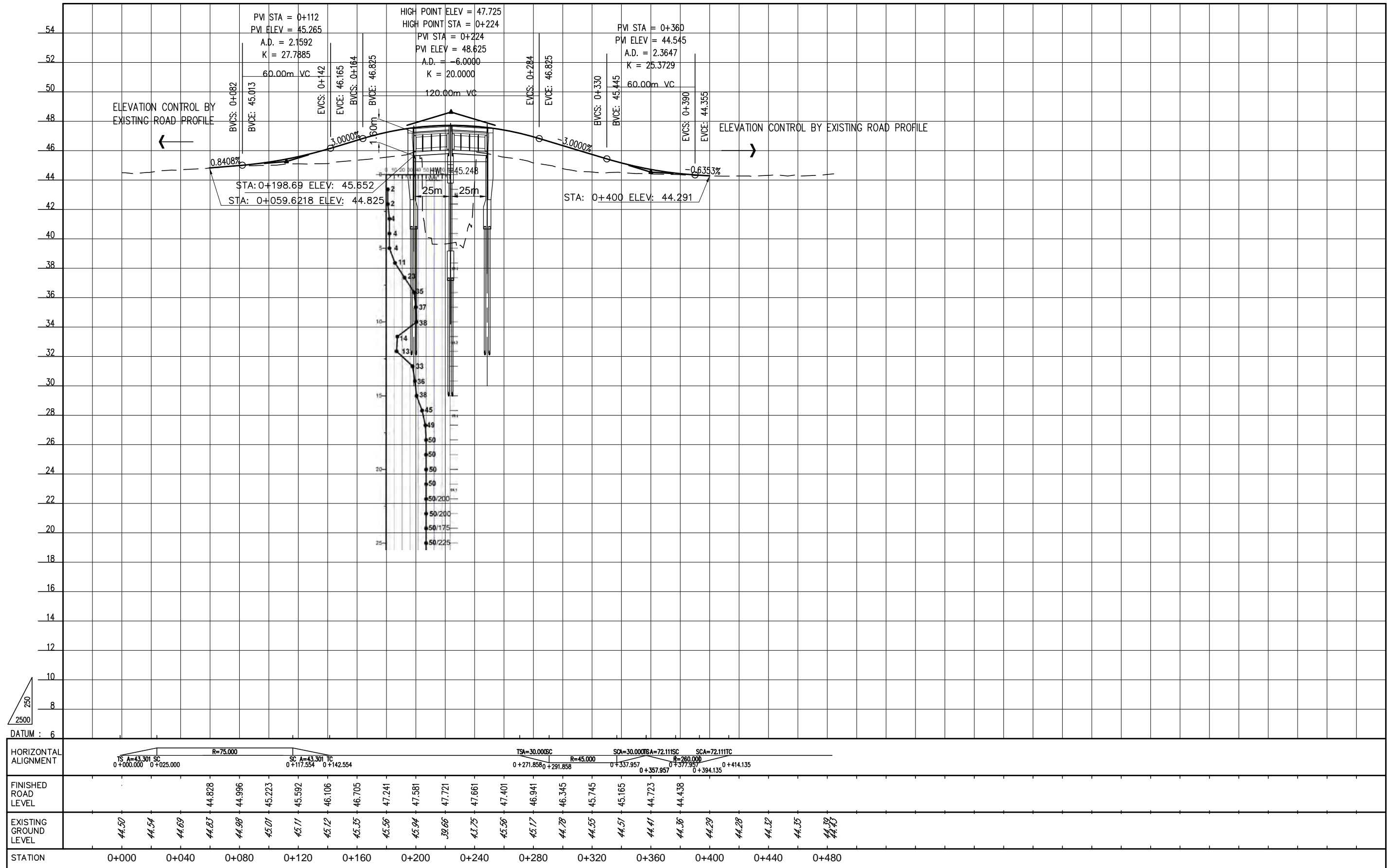
X	524441.8016	V (Kph)	IP-1		V (Kph)	X	524846.5380
Y	472692.4894	TYPE	SPIRAL-CIRCLE-SPIRAL		TYPE	Y	472571.4776
STA	0+000	$\Delta$	19°32'13.57"		$\Delta$	STA	0+428.0962
		R (m)	100.0000		R (m)		
		A	38.7298   38.7298		A		
		TS / TC (m)	24.7312   24.7312		TS / TC (m)		
		LC (m)	19.0987		LC (m)		
		LS (m)	15.0000   15.0000		LS (m)		
		L (m)	49.0990		L (m)		
		e max (%)			e max (%)		
		PI	E	524597.6050	E	PI	
			N	472609.1494	N		
		TS/SS	E	524575.7976	E	TS/SS	
			N	472620.8143	N		
			STA	0+151.9613	STA		
		SC/TC /CC	E	524589.1936	E	SC/TC /CC	
			N	472614.0738	N		
			STA	0+166.9613	STA		
		CS/CT /CC	E	524607.2911	E	CS/CT /CC	
			N	472608.0627	N		
			STA	0+186.0600	STA		
		ST/SS	E	524622.0578	E	ST/SS	
			N	472605.4489	N		
			STA	0+201.0600	STA		
		118°08'33.22"	AZIMUTH		98°36'19.66"	AZIMUTH	



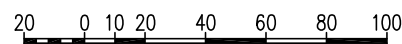
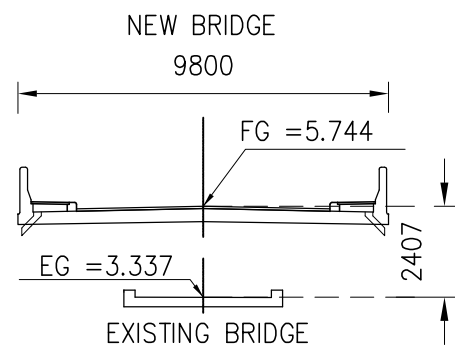
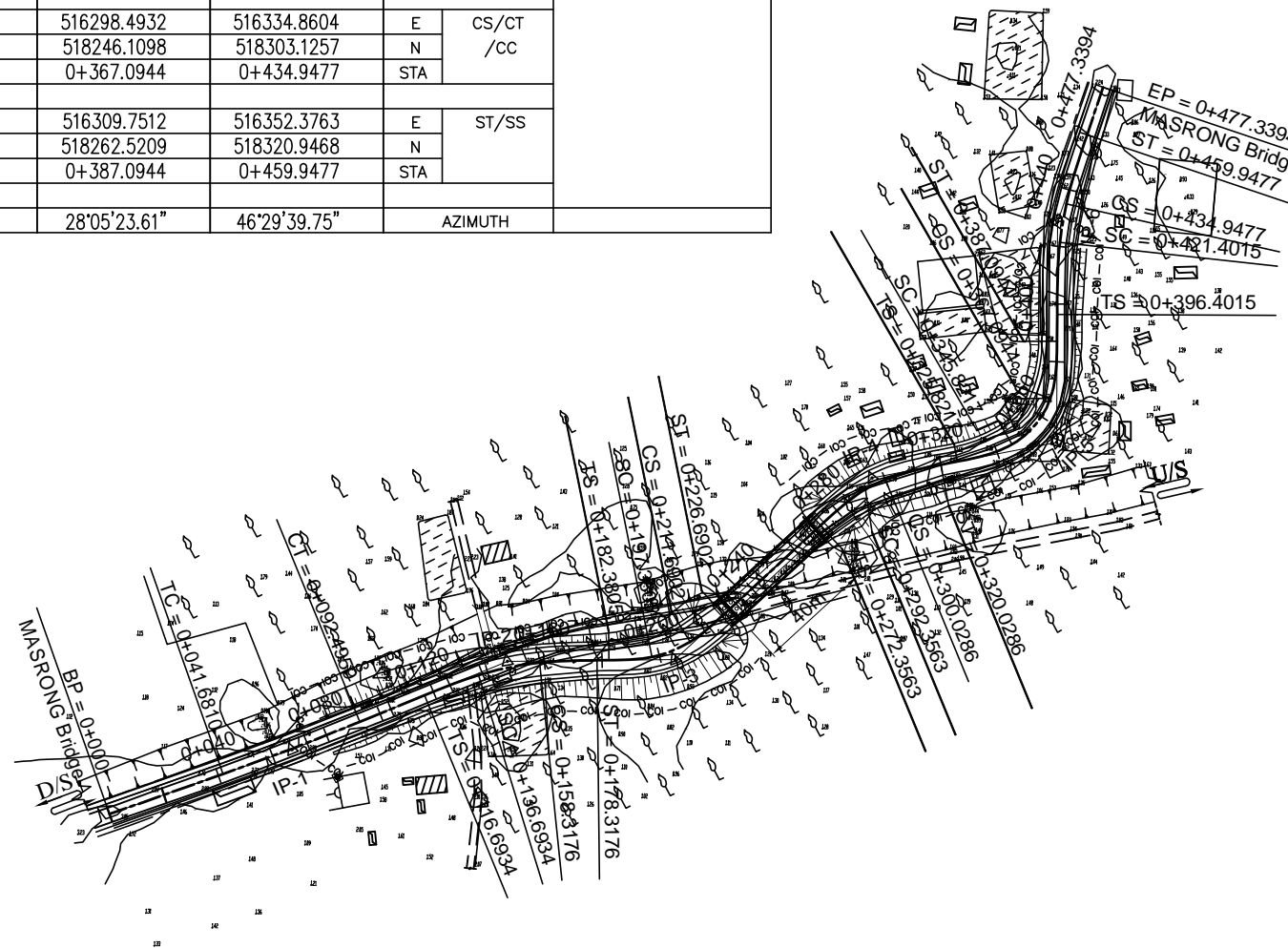


BP		IP-1		IP-2		IP-3		EP	
X	392767.4849	V (Kph) 50		50		50		V (Kph)	X 393147.0119
Y	871008.4337	TYPE SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		TYPE	Y 870992.9748
STA	0+000	89°48'17.12"		84°09'36.07"		7°58'21.12"		△	STA 0+484.4469
R (m)		75.0000		45.0000		260.0000		R (m)	
A		43.3013   43.3013		30.0000   30.0000		72.1110   72.1110		A	
TS / TC (m)		87.5790   87.5790		50.9495   50.9495		28.1223   28.1223		TS / TC (m)	
LC (m)		92.5542		46.0991		16.1782		LC (m)	
LS (m)		25.0000   25.0000		20.0000   20.0000		20.0000   20.0000		LS (m)	
L (m)		142.5540		86.0990		56.1780		L (m)	
e max (%)								e max (%)	
PI		E 392831.2061		N 871068.5145		E 393015.6066		N 870874.2712	
TS/SS		E 392767.4849		N 871008.4337		E 392980.5282		N 870911.2219	
STA		0+000		0+271.8577		0+357.9568		STA	
SC/TC /CC		E 392786.5750		N 871024.5281		E 392995.3009		N 870897.8049	
STA		0+025		0+291.8577		0+377.9568		STA	
CS/CT /CC		E 392873.3337		N 871022.1249		E 393039.2800		N 870894.4139	
STA		0+117.5542		0+337.9568		0+394.1351		STA	
ST/SS		E 392891.5036		N 871004.9984		E 393055.9348		N 870905.4077	
STA		0+142.5542		0+357.9568		0+414.1351		STA	
AZIMUTH		46°41'03.49"		136°29'20.61"		52°19'44.55"		44°21'23.42"	

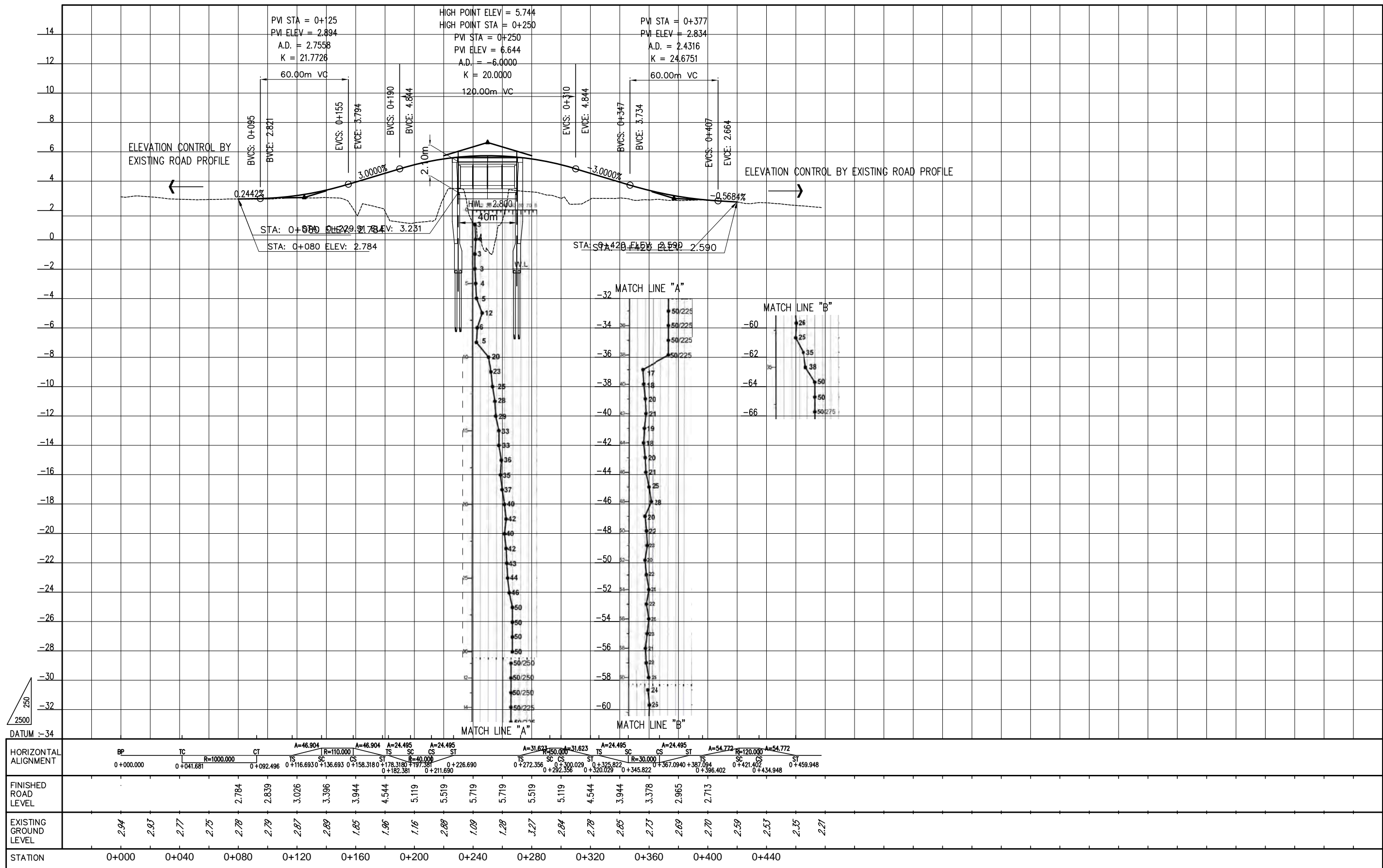


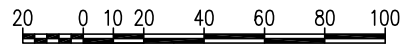
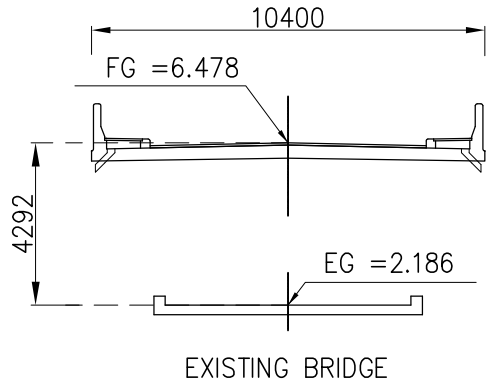
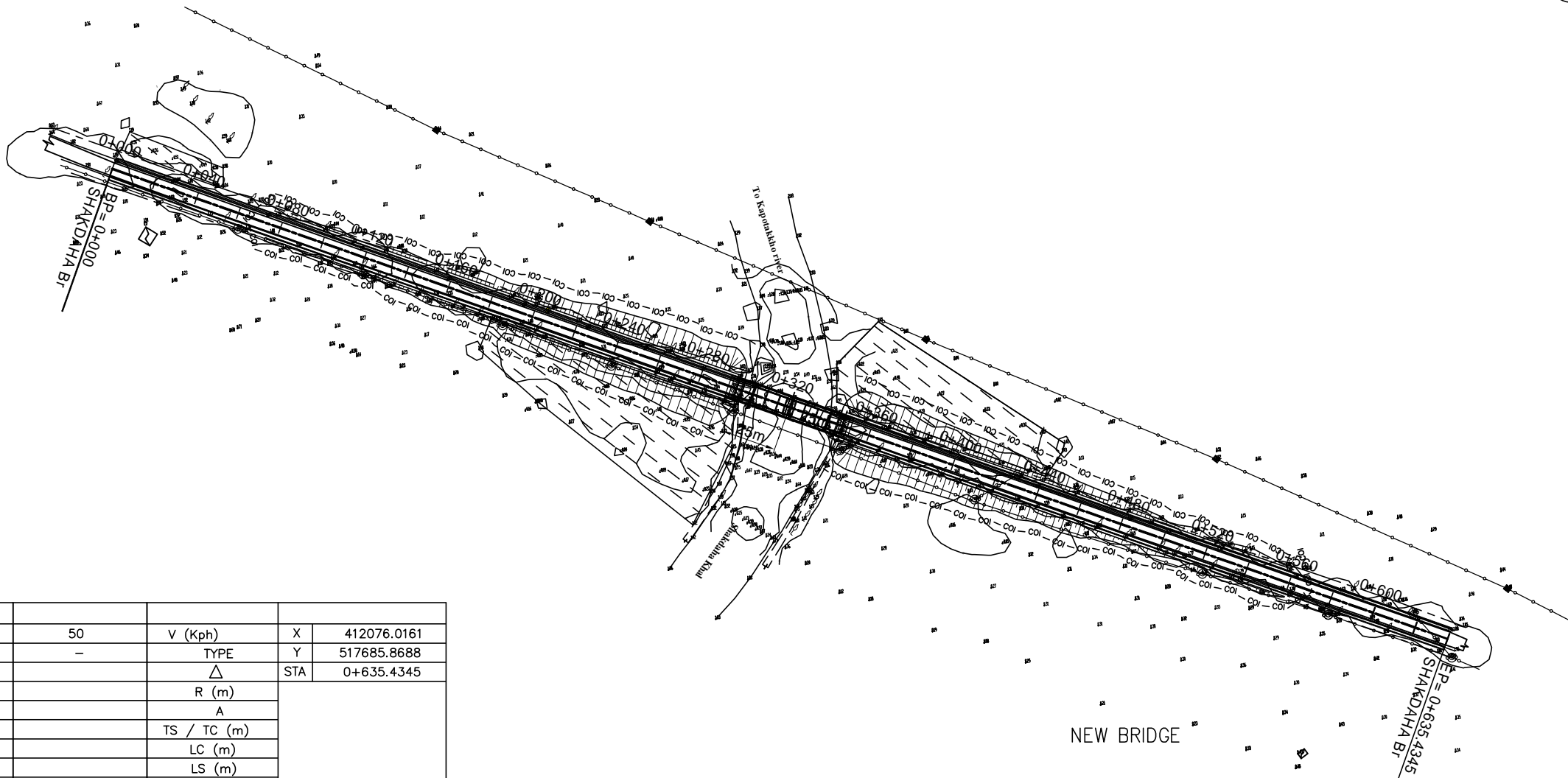


BP		IP-1	IP-2	IP-3	IP-4	IP-5	IP-6	EP						
X	515942.7491	50	40	30	30	30	40	V (Kph)	X	516364.9905				
Y	518270.9242	TYPE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	TYPE	Y	518332.9196				
STA	0+000	$\Delta$	2°54'41.33"	21°40'50.91"	41°58'58.82"	31°42'36.54"	78°49'30.76"	$\Delta$	STA	0+477.3394				
		R (m)	1000.0000	110.0000	40.0000	50.0000	30.0000	120.0000	R (m)					
		A		46.9042	46.9042	24.4949	24.4949	31.6228	31.6228	24.4949	24.4949	54.7723	54.7723	A
		TS / TC (m)	25.4129	31.0903	31.0903	22.9288	22.9288	24.2817	24.2817	35.0711	35.0711	31.9712	31.9712	TS / TC (m)
		LC (m)	50.8149	21.6242	14.3097	7.6723	7.6723	21.2728	21.2728	13.5463	13.5463			LC (m)
		LS (m)		20.0000	20.0000	15.0000	15.0000	20.0000	20.0000	20.0000	20.0000	25.0000	25.0000	LS (m)
		L (m)	50.8149	61.6240	44.3100	47.6720	47.6720	61.2730	61.2730	63.5460	63.5460			L (m)
		e max (%)												e max (%)
		PI	E	516009.1200	516089.4482	516141.1129	516230.9102	516293.2377	516329.1873	E	PI			
			N	518261.1013	518253.3565	518226.8181	518250.5353	518231.5808	518298.9370	N				
		TS/SS	E		516058.5015	516120.7175	516207.4336	516259.6839	516314.1335	E	TS/SS			
			N		518256.3402	518237.2946	518244.3347	518241.7849	518270.7317	N				
			STA		0+116.6934	0+182.3805	0+272.3563	0+325.8217	0+396.4015	STA				
		SC/TC /CC	E	515983.9809	516078.3346	516134.4406	516227.0328	516279.2485	516326.6573	E	SC/TC /CC			
			N	518264.8219	518253.8195	518231.2968	518248.1361	518238.1394	518292.3546	N				
			STA	0+041.6810	0+136.6934	0+197.3805	0+292.3563	0+345.8217	0+421.4015	STA				
		CS/CT /CC	E	518258.6624	516099.0511	516148.5910	516234.6963	516298.4932	516334.8604	E	CS/CT /CC			
			N	516034.4157	518247.7429	518229.7604	518247.9943	518246.1098	518303.1257	N				
			STA	0+092.4959	0+158.3176	0+211.6902	0+300.0286	0+367.0944	0+434.9477	STA				
		ST/SS	E		516117.1034	516163.2815	516254.1414	516309.7512	516352.3763	E	ST/SS			
			N		518239.1510	518232.6733	518243.4704	518262.5209	518320.9468	N				
			STA		0+178.3176	0+226.6902	0+320.0286	0+387.0944	0+459.9477	STA				
98°25'07.08"	AZIMUTH	95°30'25.74"	117°11'16.65"	75°12'17.83"	106°54'54.37"	28°05'23.61"	46°29'39.75"	AZIMUTH						

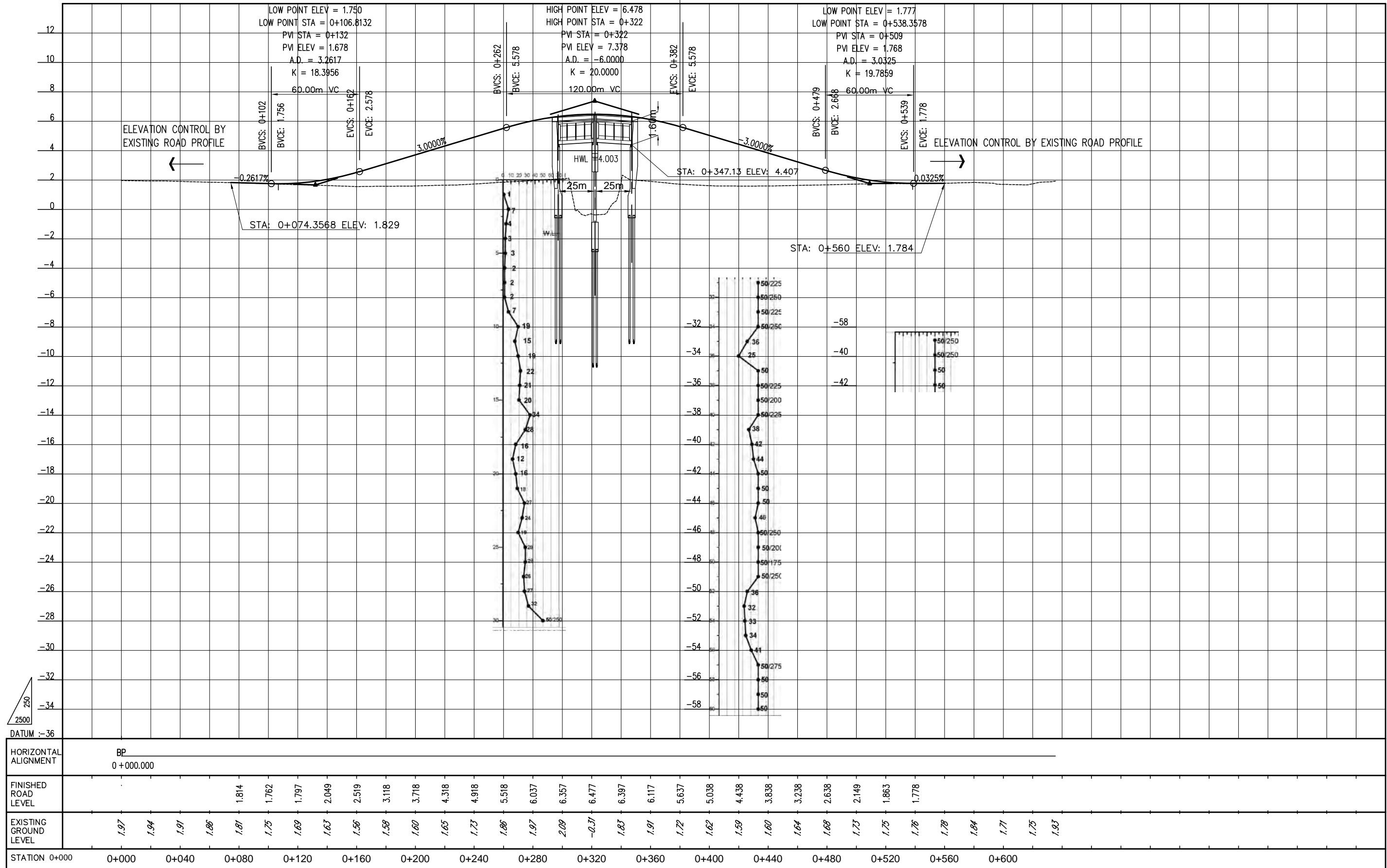


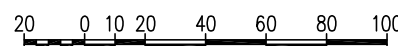
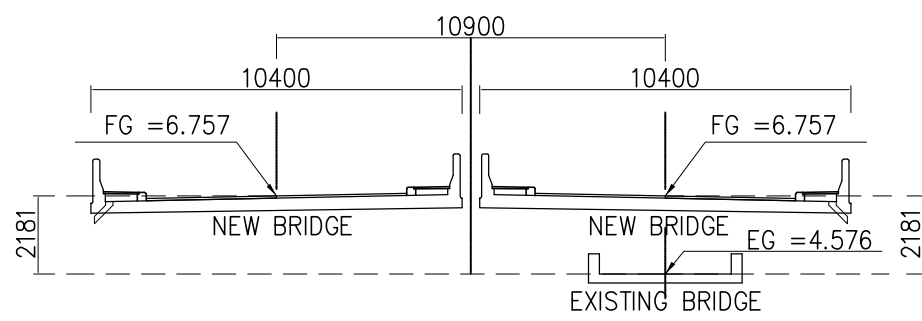
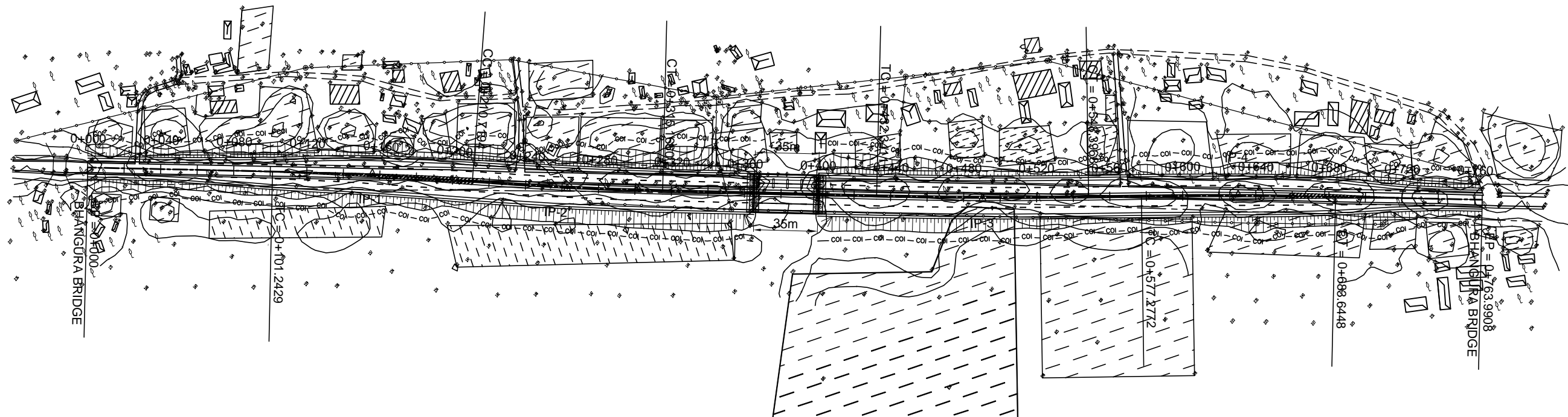






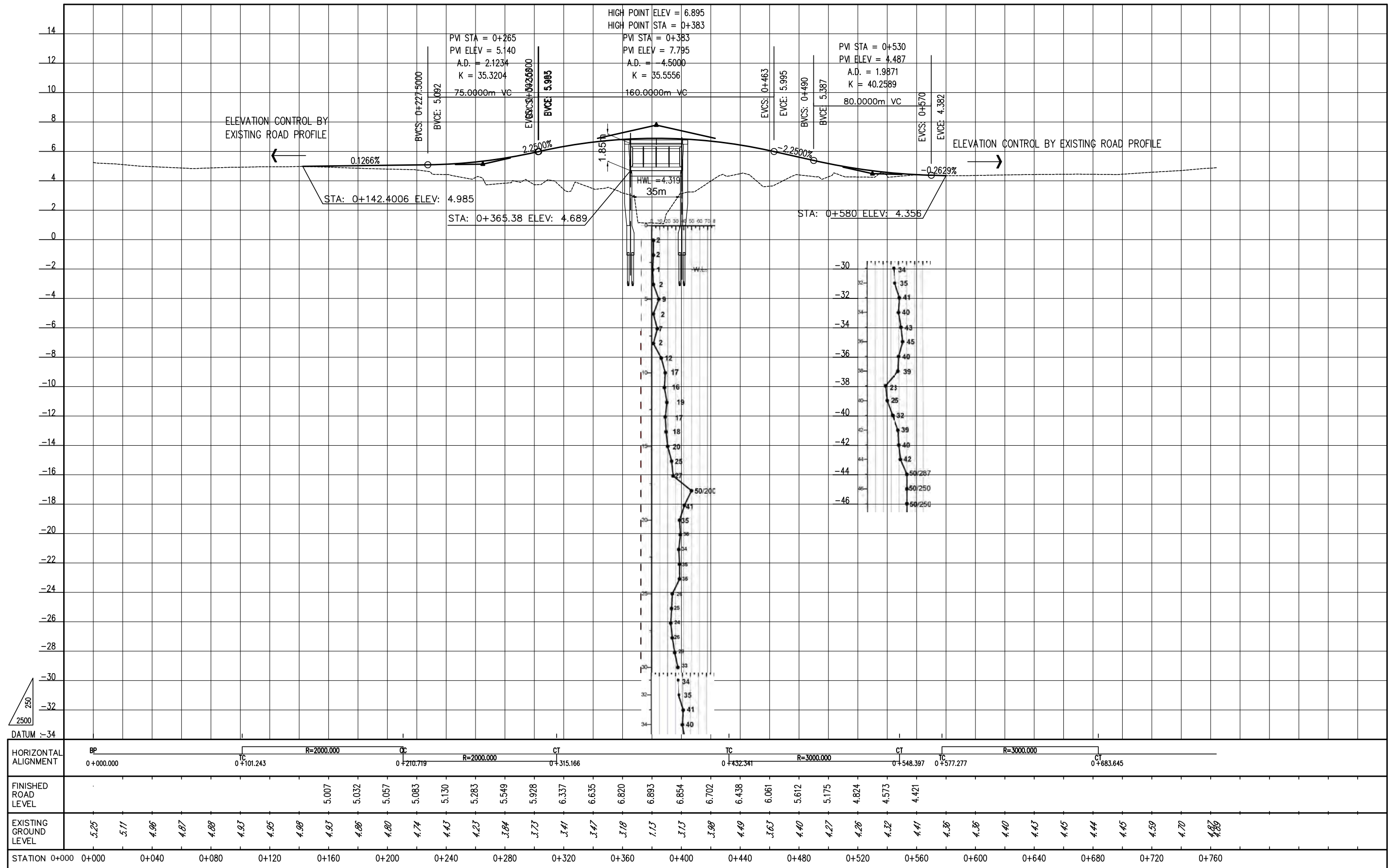
X	411473.0171	V (Kph)	50	V (Kph)	X	412076.0161
Y	517485.4462	TYPE	-	TYPE	Y	517685.8688
STA	0+000	$\Delta$		$\Delta$	STA	0+635.4345
		R (m)		R (m)		
		A		A		
		TS / TC (m)		TS / TC (m)		
		LC (m)		LC (m)		
		LS (m)		LS (m)		
		L (m)		L (m)		
		e max (%)		e max (%)		
		PI	E	E	PI	N
			N			
		TS/SS	E	E	TS/SS	N
			N			
			STA			STA
		SC/TC /CC	E	E	SC/TC /CC	N
			N			
			STA			STA
		CS/CT /CC	E	E	CS/CT /CC	N
			N			
			STA			STA
		ST/SS	E	E	ST/SS	N
			N			
			STA			STA
	71°36'51.88"	AZIMUTH		AZIMUTH		



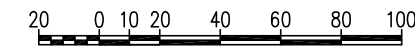
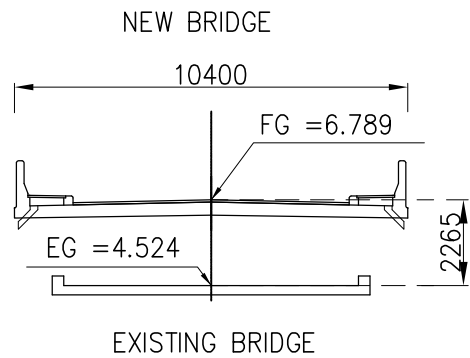
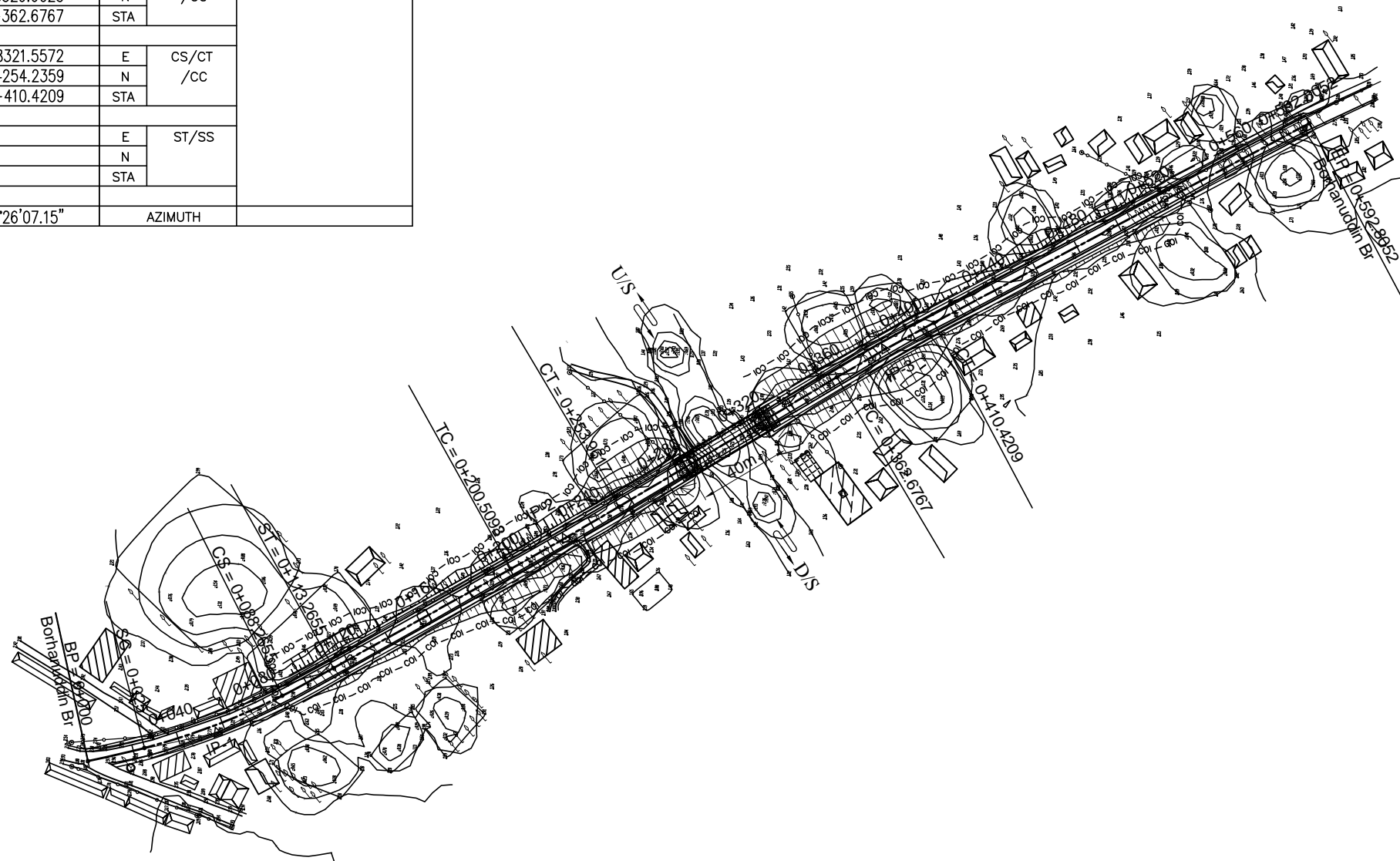


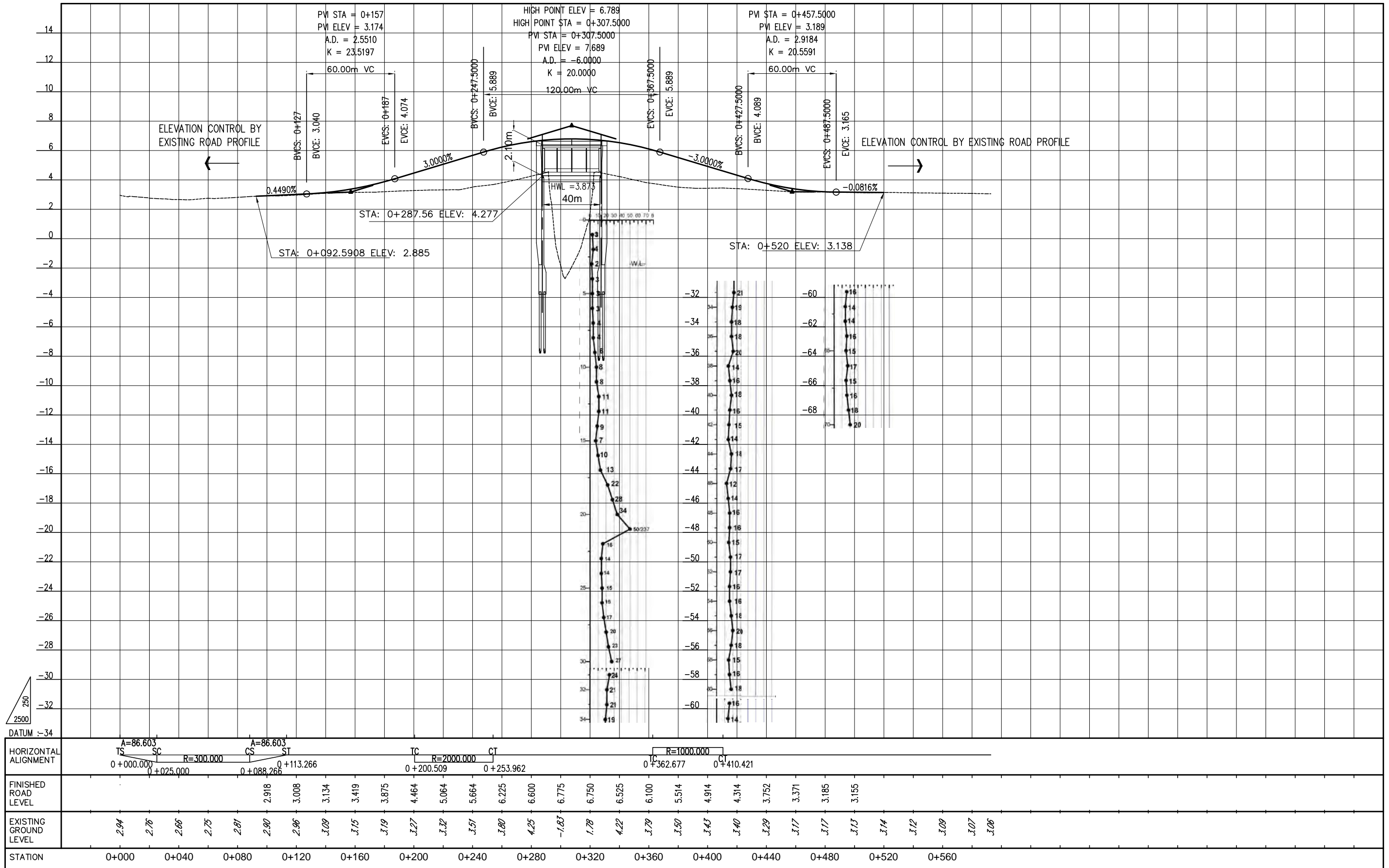
BP			IP-1	IP-2	IP-3	IP-4		EP	
X	440291.1774	V (Kph)	80	80	80	80	V (Kph)	X	441009.5631
Y	562960.8152	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE	Y	562701.3222
STA	0+000	$\Delta$	3'08'10.57"	2'59'31.83"	2'12'59.40"	2'01'53.30"	$\Delta$	STA	0+763.9908
		R (m)	2000.0000	2000.0000	3000.0000	3000.0000	R (m)		
		A					A		
		TS / TC (m)	54.7519	52.2352	58.0351	53.1894	TS / TC (m)		
		LC (m)	109.4764	104.4466	116.0557	106.3677	LC (m)		
		LS (m)					LS (m)		
		L (m)	109.4764	104.4466	116.0557	106.3677	L (m)		
		e max (%)					e max (%)		
		PI	E 440437.9814	440536.5348	440750.3857	440883.8631	E PI		
			N 562908.0615	562866.4267	562788.9720	562746.3909	N		
		TS	E				E TS		
			N				N		
			STA				STA		
		SC/TC /SS/CC	E 440386.4553	440488.4173	440695.8194	440833.1897	E SC/TC /CC/SS		
			N 562926.5773	562886.7544	562808.7354	562762.5564	N		
			STA 0+101.2429	0+210.7194	0+432.3411	0+577.2772	STA		
		CS/CT /CC	E 562886.7544	562848.6384	562771.3338	562728.4393	E CS/CT /CC		
			N 440488.4173	440585.6479	440805.6755	440933.9315	N		
			STA 0+210.7194	0+315.1660	0+548.3968	0+683.6448	STA		
		ST	E				E ST		
			N				N		
			STA				STA		
		109°45'56.87"	AZIMUTH	112°54'07.44"	109°54'35.61"	107°41'36.21"	109°43'29.51"	AZIMUTH	

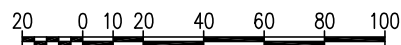
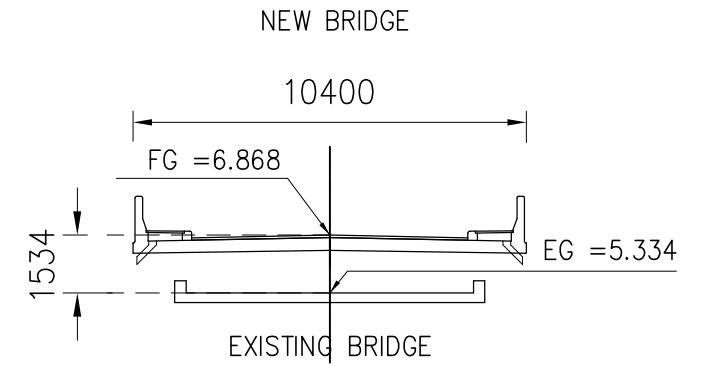
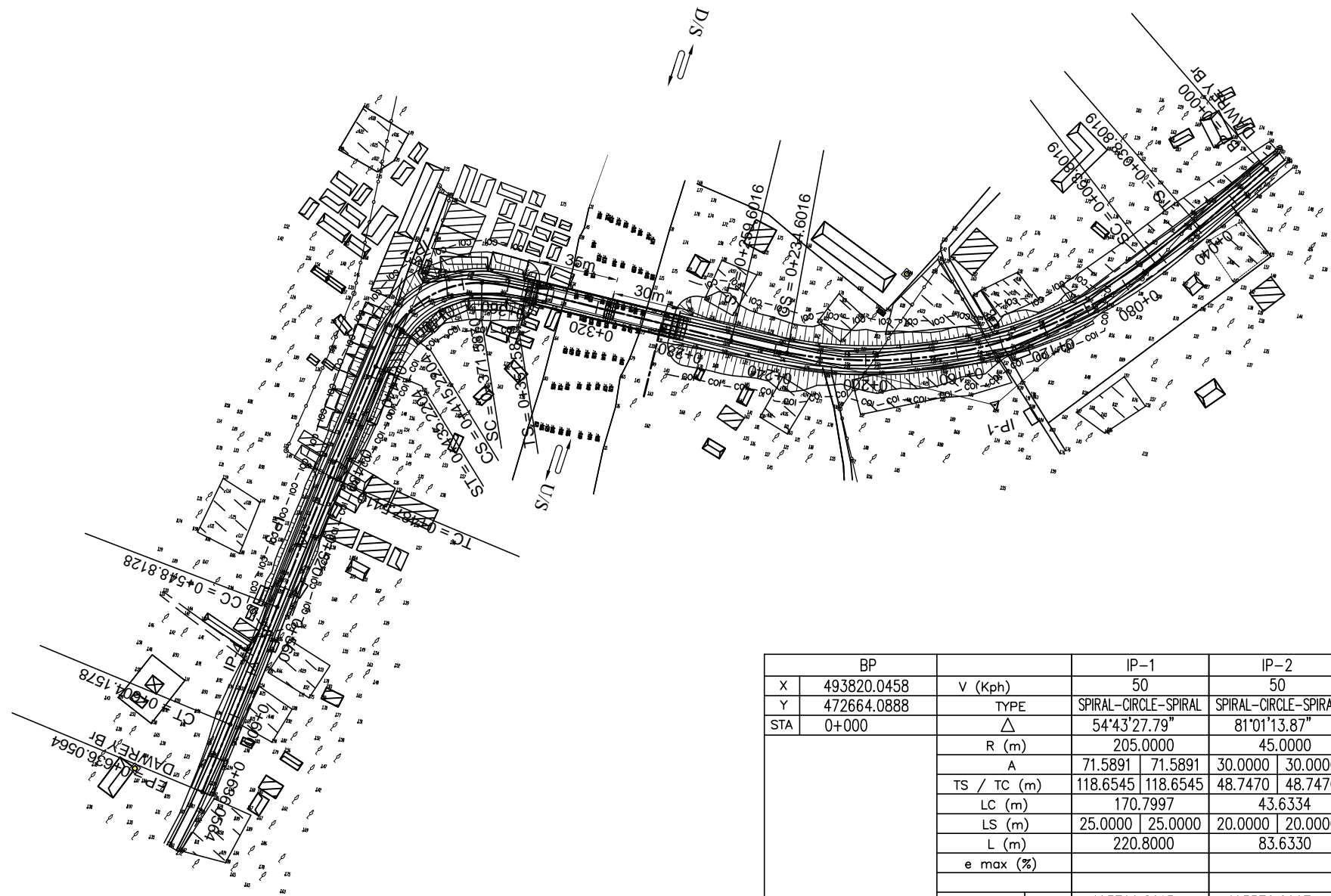
<b>MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)</b> PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT (RHD)	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>ORIENTAL CONSULTANTS GLOBAL CO., LTD.</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT</b>		DESIGNED BY:	
		PLAN OF BHANGURA BRIDGE (R750_22c) RANK : 78, SN : 68, ZONE : KHULNA, BRIDGE TYPE : PCG		CHECKED BY:	
No. REVISION DATE				APPROVED BY:	
				DWG. NO.	BR 078-1



BP		IP-1		IP-2		IP-3		EP	
X	573854.4101	V (Kph) 50		50		50		X	574432.9997
Y	488406.6913	TYPE SPIRAL-CIRCLE-SPIRAL		FULL CIRCLE		FULL CIRCLE		Y	488285.3974
STA	0+000	△ 16°51'26.90"		1°31'52.67"		2°44'07.95"		STA	0+592.8052
R (m)		300.0000		2000.0000		1000.0000		R (m)	
A		86.6025   86.6025						A	
TS / TC (m)		56.9660   56.9660		26.7278		23.8767		TS / TC (m)	
LC (m)		63.2655		53.4524		47.7442		LC (m)	
LS (m)		25.0000   25.0000						LS (m)	
L (m)		113.2660		53.4524		47.7442		L (m)	
e max (%)								e max (%)	
PI		E 573905.1272		574073.3468		574230.8332		E PI	
N		488380.7509		488350.3892		488326.2910		N	
TS/SS		E 573854.4101						E TS/SS	
N		488406.6913						N	
STA		0+000						STA	
SC/TC /cc		E 573876.8220		574047.0440		574207.2313		E SC/TC /cc	
N		488395.6182		488355.1365		488329.9025		N	
STA		0+025		0+200.5093		0+362.6767		STA	
CS/CT /cc		E 573936.6509		488346.3464		488321.5572		E CS/CT /cc	
N		488375.4140		574099.7671		574254.2359		N	
STA		0+088.2655		0+253.9617		0+410.4209		STA	
ST/SS		E 573961.1875						E ST/SS	
N		488370.6326						N	
STA		0+113.2655						STA	
117°05'18.77"		AZIMUTH 100°13'51.87"		98°41'59.20"		101°26'07.15"		AZIMUTH	

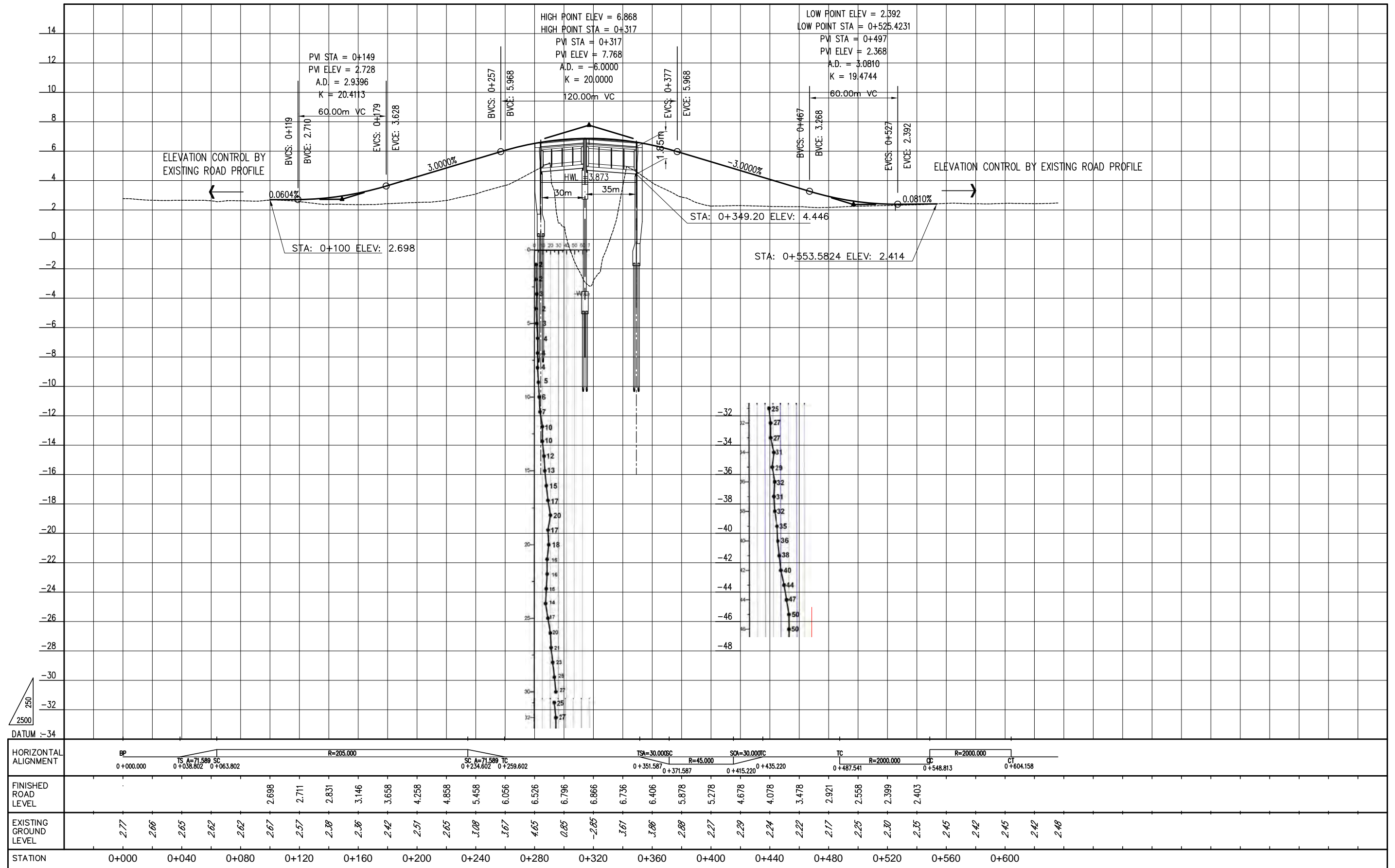


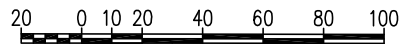
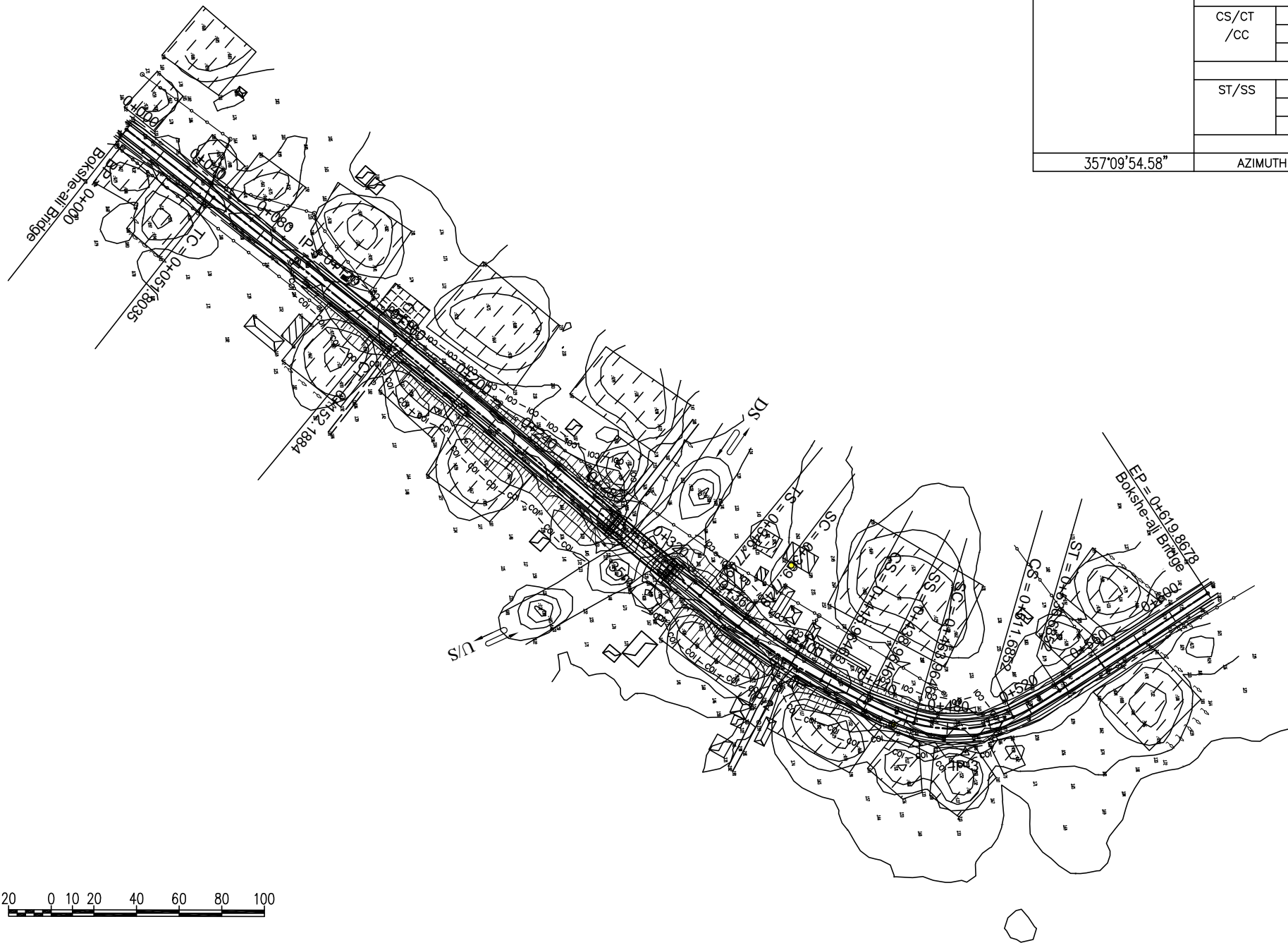




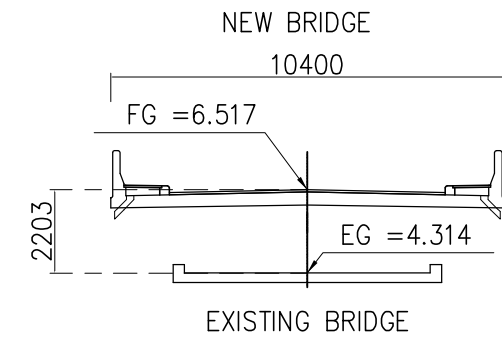
BP		IP-1		IP-2		IP-3		IP-4		EP	
X	493820.0458	V (Kph)	50	50	50	50	V (Kph)	X	493653.5674	Y	472151.0545
Y	472664.0888	TYPE	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	FULL CIRCLE	TYPE	Y	472151.0545	STA	0+636.0564
STA	0+000	$\Delta$	54°43'27.79"	81°01'13.87"	1°45'19.11"	1°35'07.86"	$\Delta$	STA	0+636.0564		
		R (m)	205.0000	45.0000	2000.0000	2000.0000	R (m)				
		A	71.5891	71.5891	30.0000	30.0000	A				
		TS / TC (m)	118.6545	118.6545	48.7470	48.7470	30.6383	27.6743	TS / TC (m)		
		LC (m)	170.7997	43.6334	61.2718	55.3450	LC (m)				
		LS (m)	25.0000	25.0000	20.0000	20.0000	LS (m)				
		L (m)	220.8000	83.6330	61.2718	55.3450	L (m)				
		e max (%)					e max (%)				
		PI	E 493799.8913	493570.6997	493613.4530	493634.0625	E	PI			
			N 472507.9276	472386.4666	472261.8928	472207.3437	N				
		TS/SS	E 493815.0791	493613.7720			E	TS/SS			
			N 472625.6061	472409.2929			N				
			STA 0+038.8019	0+351.5870			STA				
		SC/TC /CC	E 493811.3765	493596.8786	493603.5074	493624.2815	E	SC/TC /CC			
			N 472600.8860	472398.6694	472290.8720	472233.2319	N				
			STA 0+063.8019	0+371.5870	0+487.5410	0+548.8128	STA				
		CS/CT /CC	E 493716.8930	493581.4596	472233.2319	472181.1949	E	CS/CT /CC			
			N 472464.5173	472359.6623	493624.2815	493643.1234	N				
			STA 0+234.6016	0+415.2204	0+548.8128	0+604.1578	STA				
		ST/SS	E 493695.0493	493586.5235			E	ST/SS			
			N 472452.3662	472340.3593			N				
			STA 0+259.6016	0+435.2204			STA				
		187°21'14.66"	AZIMUTH	242°04'42.46"	161°03'28.59"	159°18'09.48"	160°53'17.34"	AZIMUTH			

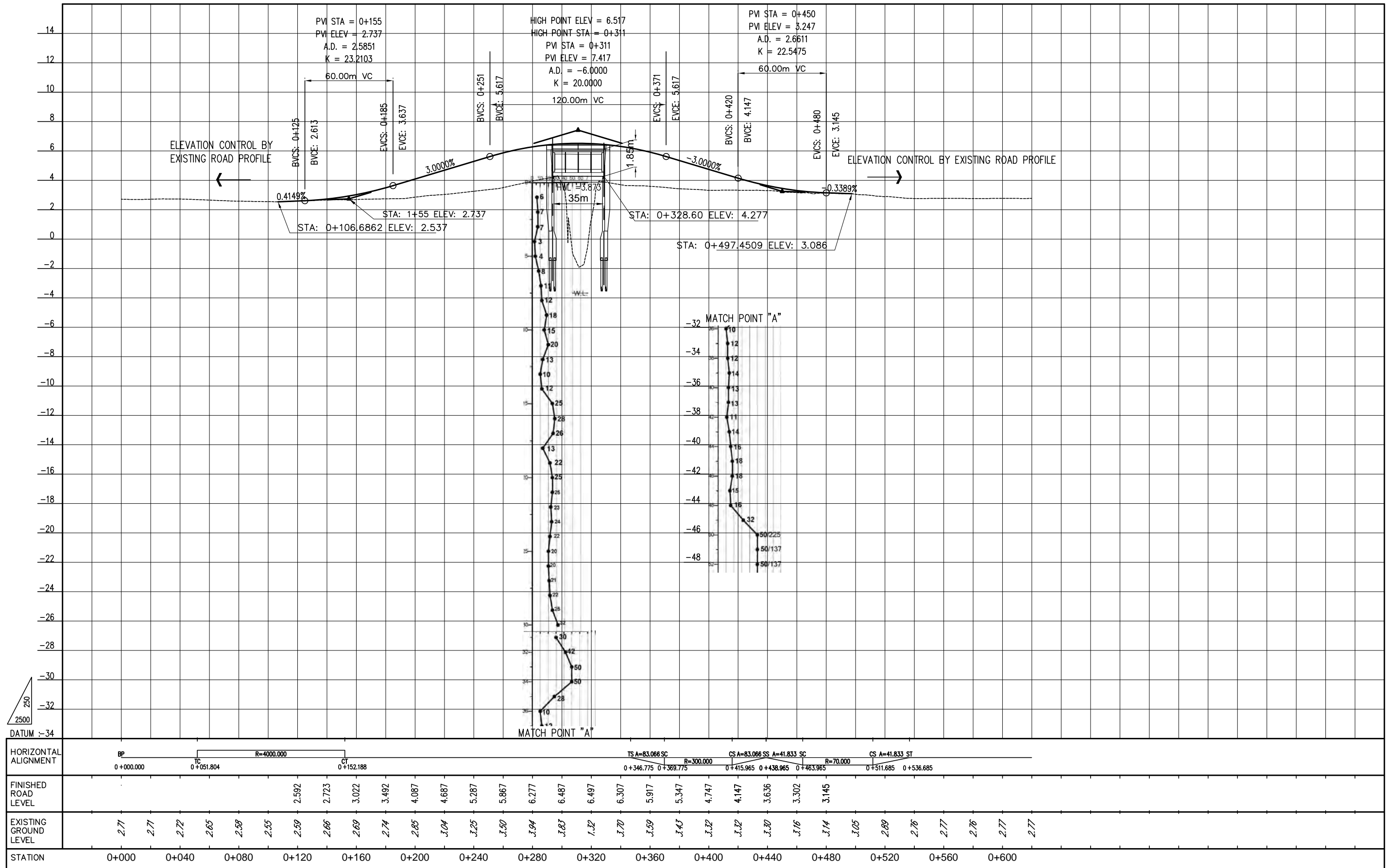




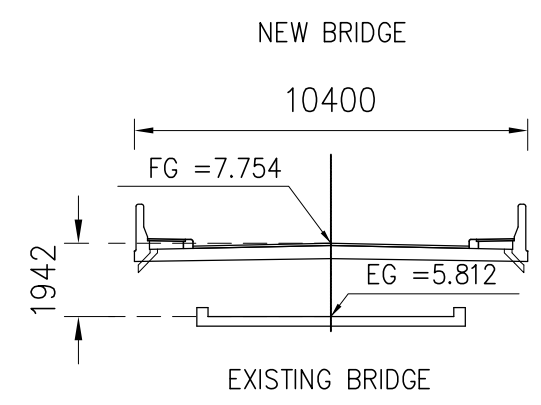
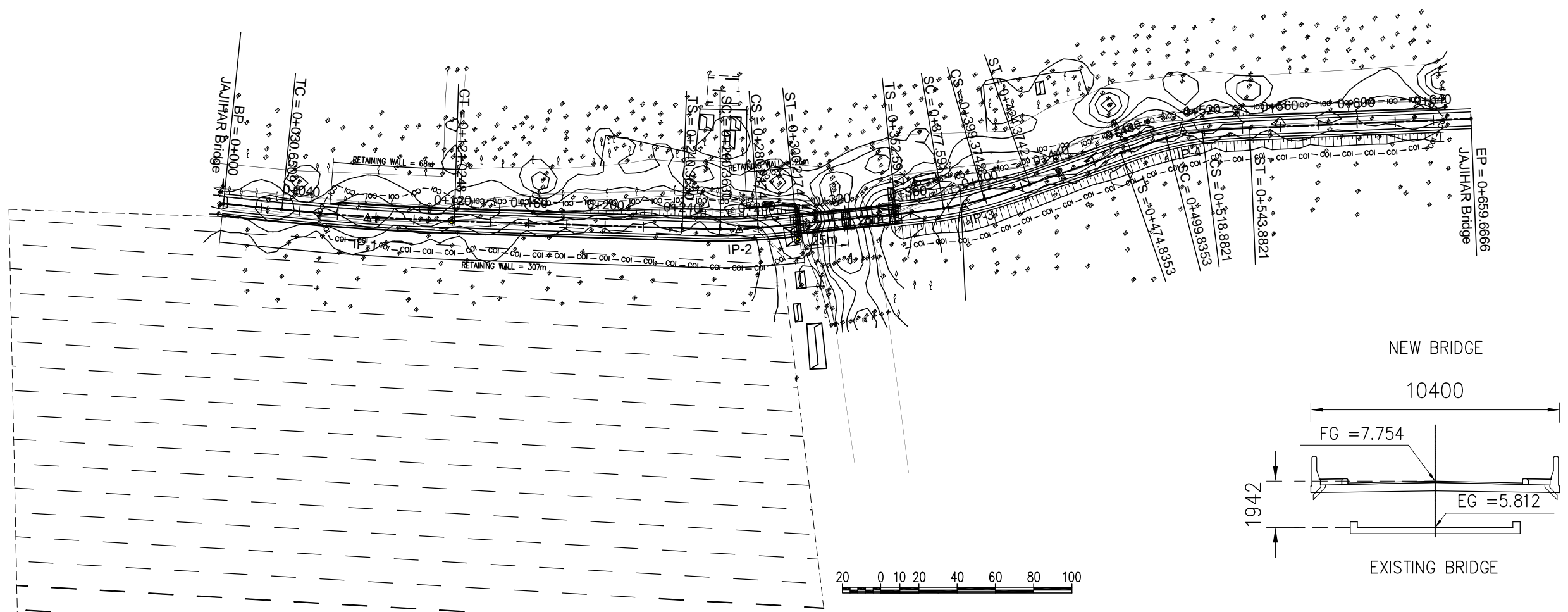


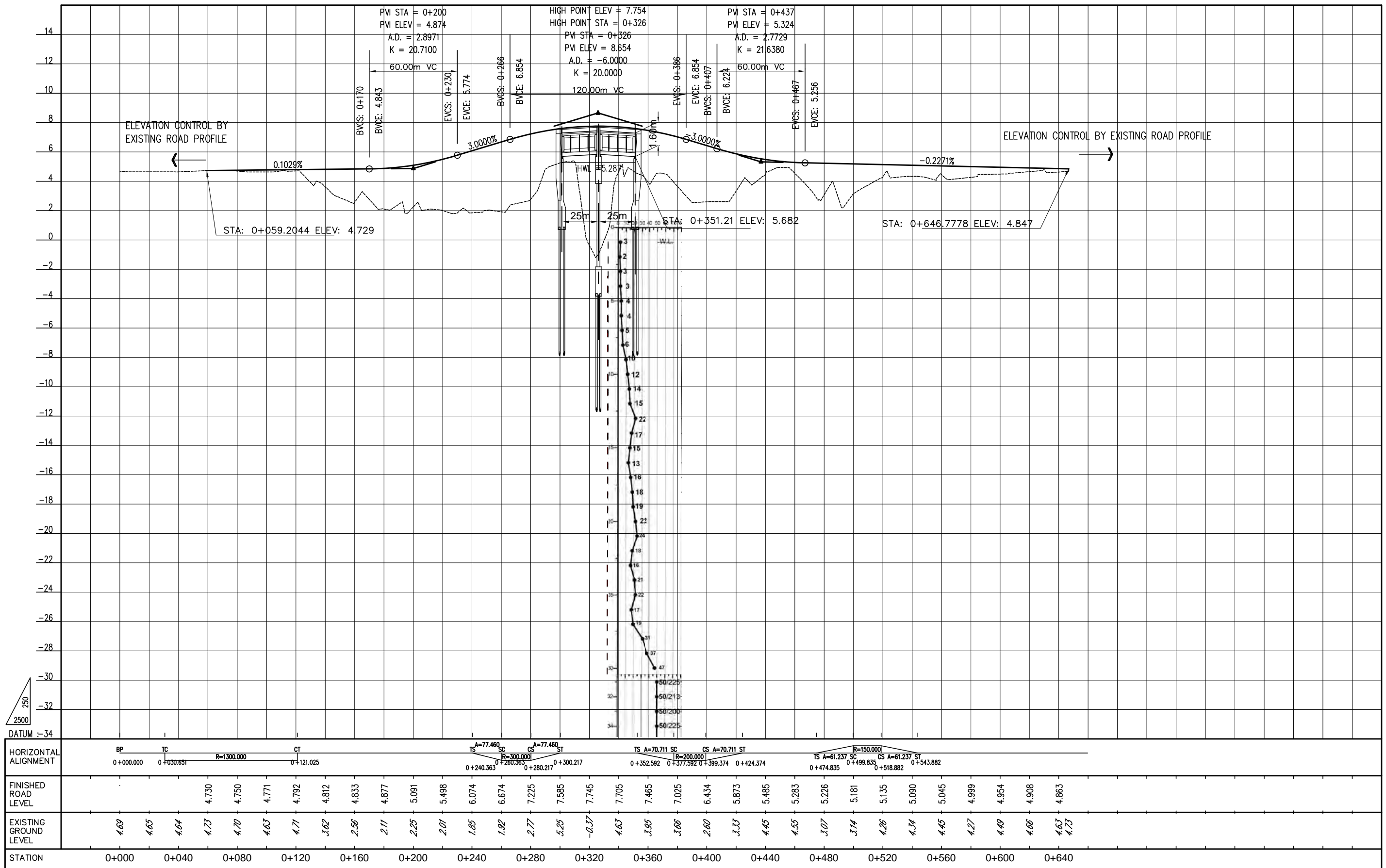
BP		v (Kph)		IP-1	IP-2	IP-3	v (Kph)		EP	
X	570746.5019	50		50	50	40	50		X	570578.6622
Y	493988.4121	TYPE		FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	TYPE		Y	494514.1758
STA	0+000	Δ		1'26'16.47"	13'12'51.31"	59'31'21.55"	Δ		STA	0+619.8678
		R (m)		4000.0000	300.0000	70.0000	R (m)			
		A			83.0662	83.0662	41.8330	41.8330	A	
		TS / TC (m)		50.1951	46.2569	46.2569	52.7259	52.7259	TS / TC (m)	
		LC (m)		100.3849	46.1897		47.7206		LC (m)	
		LS (m)			23.0000	23.0000	25.0000	25.0000	LS (m)	
		L (m)		100.3849	92.1900		97.7210		L (m)	
		e max (%)							e max (%)	
		PI		E 570741.4573	570734.3622	570709.3930	E		PI	
				N 494090.2859	494381.2379	494477.0197	N			
		TS/SS		E	570735.4899	570722.6935	E		TS/SS	
				N	494334.9947	494425.9989	N			
				STA	0+346.7749	0+438.9646	STA			
		SC/TC /CC		E 570743.9398	570734.6355	570714.9704	E		SC/TC /CC	
				N 494040.1522	494357.9774	494449.7389	N			
				STA 0+051.8035	0+369.7749	0+463.9646	STA			
		CS/CT /CC		E 494140.4661	570728.2102	570682.2409	E		CS/CT /CC	
				N 570740.2336	494403.6719	494483.1933	N			
				STA 0+152.1884	0+415.9646	0+511.6852	STA			
		ST/SS		E	570722.6935	570658.6758	E		ST/SS	
				N	494425.9989	494491.4344	N			
				STA	0+438.9646	0+536.6852	STA			
357°09'54.58"		AZIMUTH		358°36'11.05"	345°23'19.74"	285°51'58.19"	AZIMUTH			



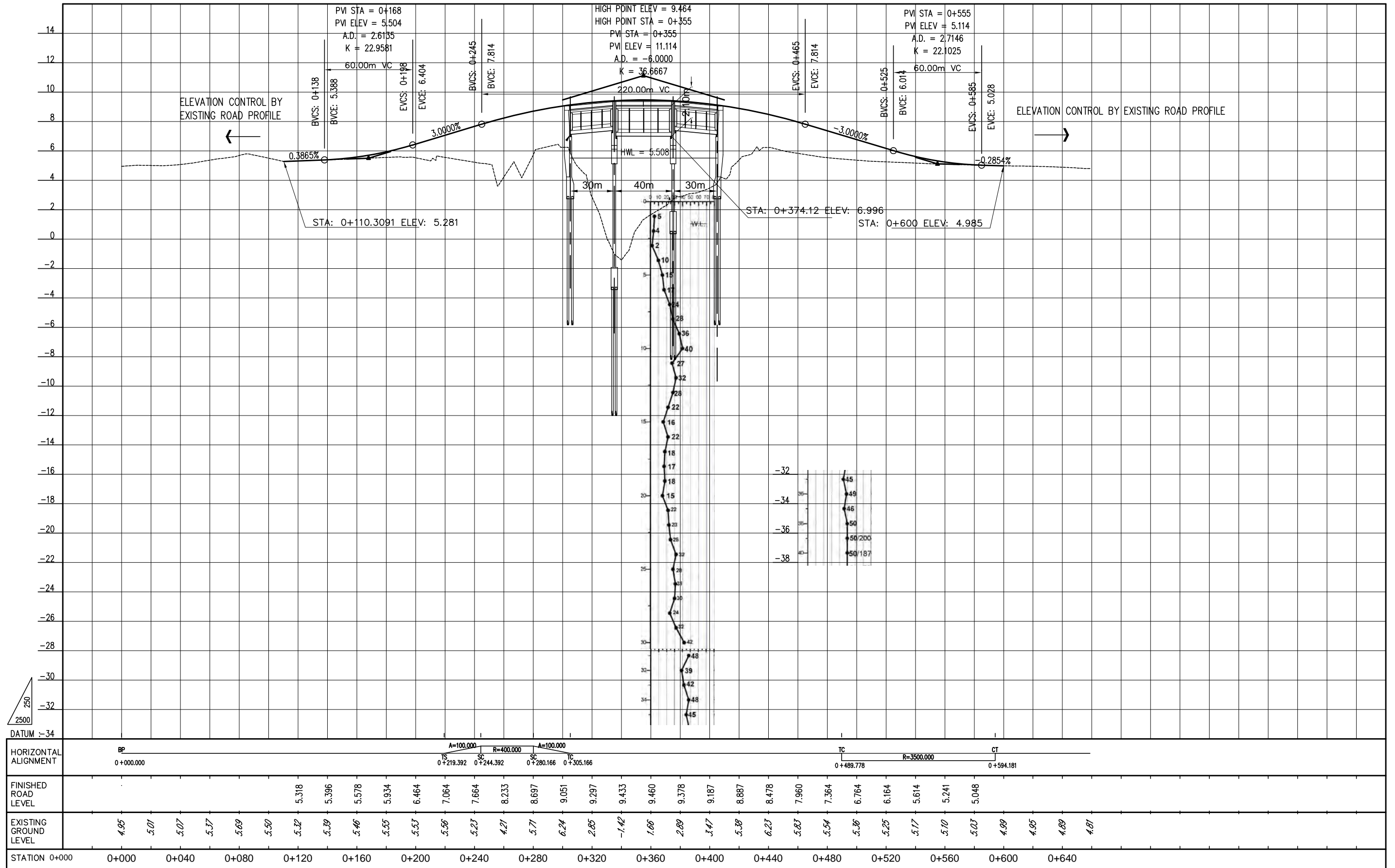


BP			IP-1	IP-2	IP-3	IP-4		BP	
X	543180.7574	V (Kph)	65	65	65	65	V (Kph)	X	543829.4888
Y	564491.7900	TYPE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	TYPE	Y	564573.9373
STA	0+000	$\Delta$	3°58'59.20"	7°36'41.90"	13°24'07.90"	16°49'28.74"	$\Delta$	STA	0+659.6666
		R (m)	1300.0000	300.0000	200.0000	150.0000	R (m)		
		A		77.4597	77.4597	70.7107	70.7107	A	
		TS / TC (m)	45.2052	29.9599	29.9599	36.0122	36.0122	TS / TC (m)	
		LC (m)	90.3739	19.8544	21.7825	19.0468	19.0468	LC (m)	
		LS (m)		20.0000	20.0000	25.0000	25.0000	LS (m)	
		L (m)	90.3739	59.8540	71.7830	69.0470	69.0470	L (m)	
		e max (%)						e max (%)	
		PI						PI	
		E	543256.5437	543450.9780	543567.8228	543679.7463	E		
		N	564488.5366	564493.7127	564512.5047	564558.9537	N		
		TS/SS						TS/SS	
		E		543421.0287	543532.2676	543647.6913	E		
		N		564492.9154	564506.7864	564545.6507	N		
		STA		0+240.3630	0+352.5917	0+474.8353	STA		
		SC/TC /CC						SC/TC /CC	
		E	543211.3801	543441.0135	543556.8581	543671.0318	E		
		N	564490.4754	564493.6697	564511.2687	564554.5857	N		
		STA	0+030.6509	0+260.3630	0+377.5917	0+499.8353	STA		
		CS/CT /CC						CS/CT /CC	
		E	564489.7396	543460.7785	543577.8033	543689.4903	E		
		N	543301.7328	564495.5140	564517.2104	564559.2312	N		
		STA	0+121.0248	0+280.2174	0+399.3742	0+518.8821	STA		
		ST/SS						ST/SS	
		E		543480.5578	543601.0844	543714.2797	E		
		N		564498.4700	564526.3085	564562.4092	N		
		STA		0+300.2174	0+424.3742	0+543.8821	STA		
		AZIMUTH	88°28'30.22"	80°51'48.32"	67°27'40.42"	84°17'09.17"	AZIMUTH		

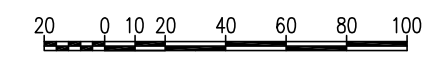
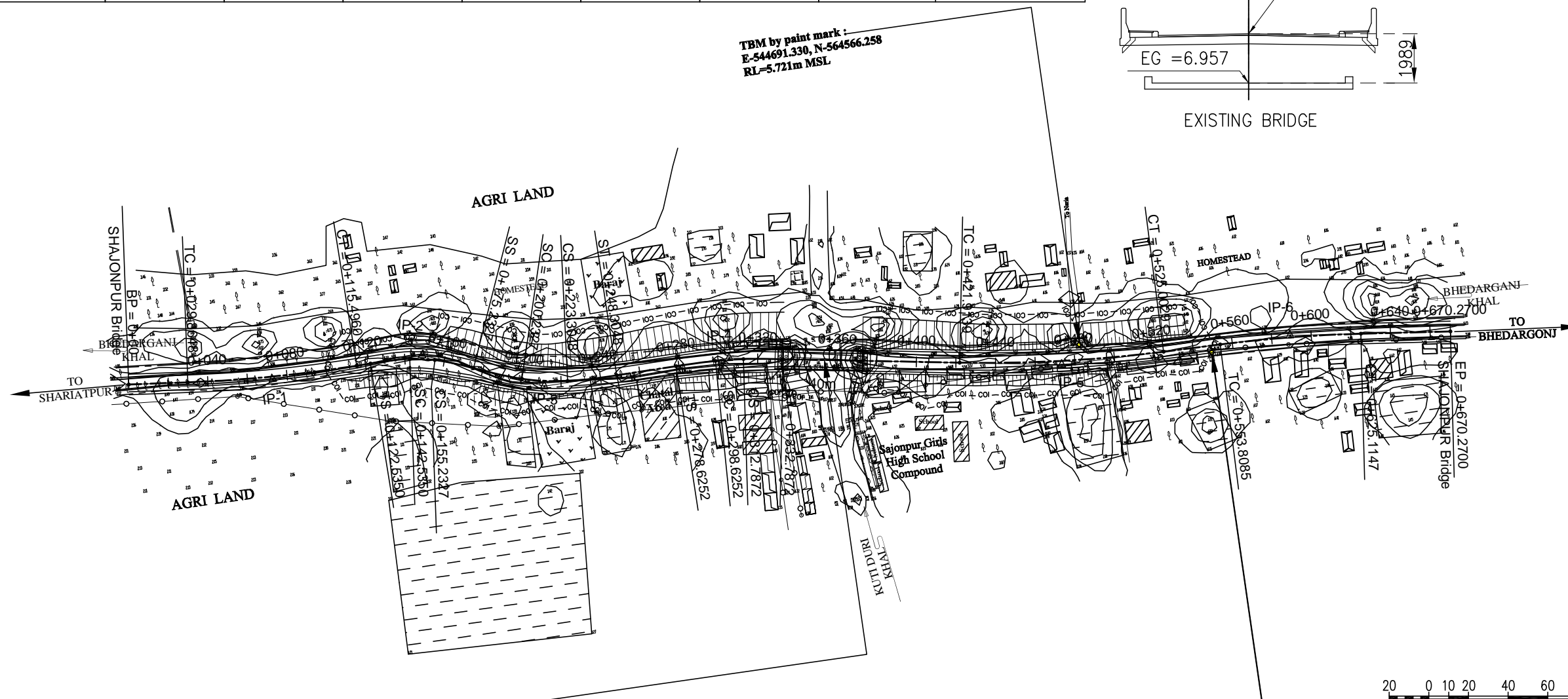
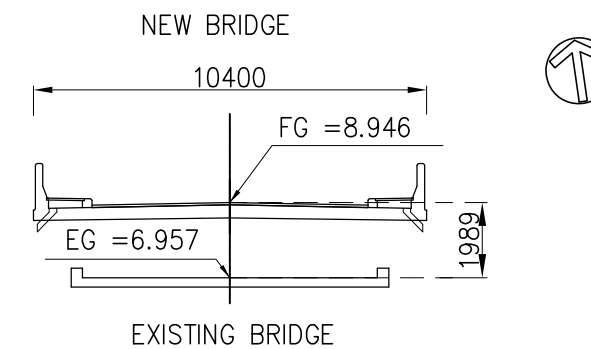








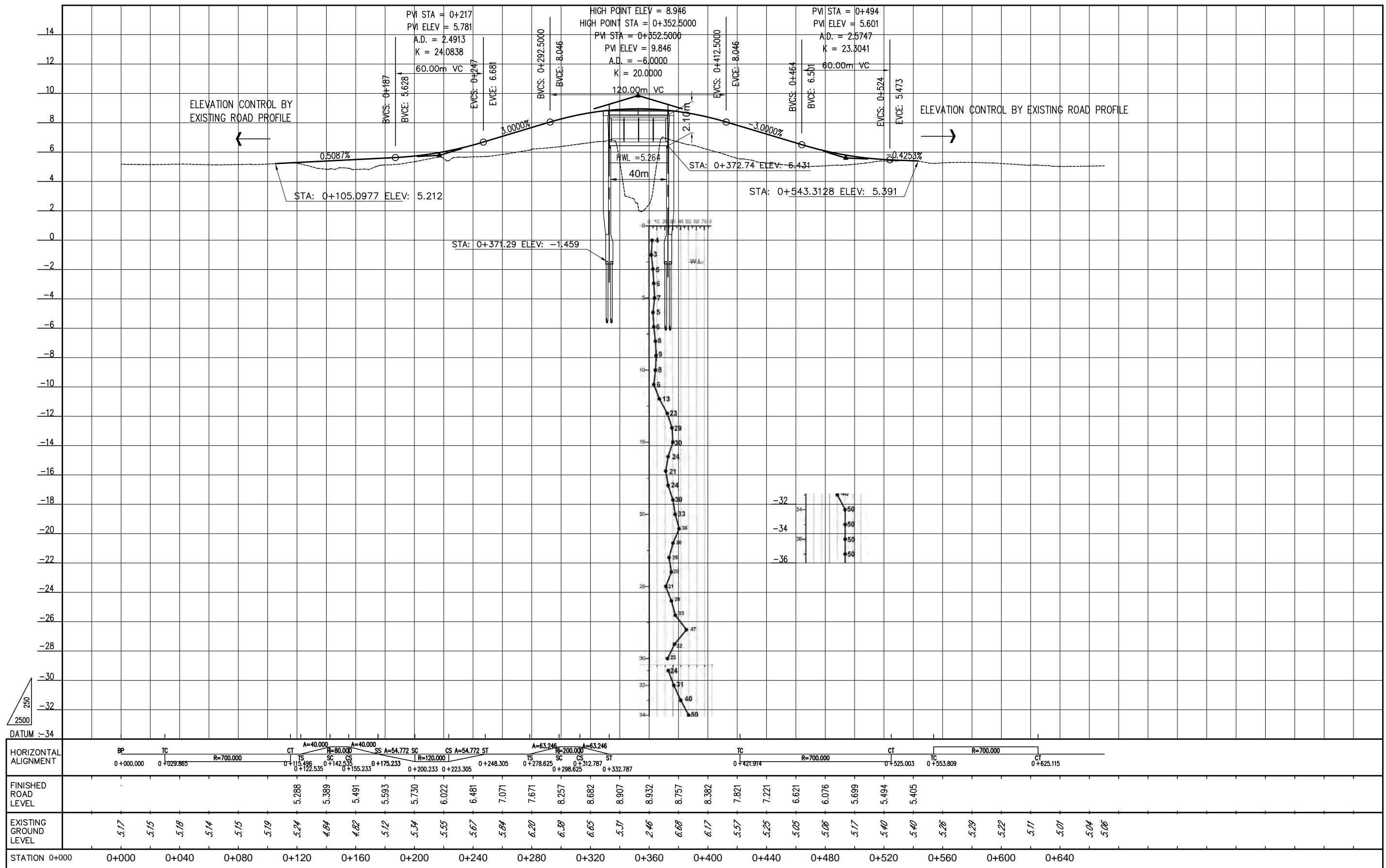
BP		IP-1	IP-2	IP-3	IP-4	IP-5	IP-6	EP			
X	544213.6829	V (Kph)	50	40	50	50	50	V (Kph)	X	544877.6768	
Y	564614.3045	TYPE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	TYPE	Y	564546.2567	
STA	0+000	$\Delta$	7°00'32.45"	23°25'04.58"	22°57'09.92"	9°47'12.15"	8°26'16.62"	$\Delta$	STA	0+670.2700	
		R (m)	700.0000	80.0000	120.0000	200.0000	700.0000	R (m)			
		A		40.0000	40.0000	54.7723	54.7723	A			
		TS / TC (m)	42.8691	26.6182	26.6182	36.9023	36.9023	TS / TC (m)			
		LC (m)	85.6312	12.6976	12.6976	23.0721	23.0721	LC (m)			
		LS (m)		20.0000	20.0000	25.0000	25.0000	LS (m)			
		L (m)	85.6312	52.6980	73.0720	54.1620	103.0890	L (m)			
		e max (%)						e max (%)			
		PI	E	544286.0123	544362.5278	544421.2325	544515.5806	544681.2728	544797.3874	E	PI
			N	564606.6446	564607.9316	564583.6702	564584.4911	564557.3930	564555.6698	N	
		TS/SS	E		544335.9134	544387.1280	544488.4526			E	TS/SS
			N		564607.4839	564597.7649	564584.2551			N	
			STA		0+122.5350	0+175.2327	0+278.6252			STA	
		SC/TC /CC	E	544243.3816	544355.8933	544410.5388	544508.4498	544630.3120	544761.7074	E	SC/TC /CC
			N	564611.1593	564606.9875	564589.0282	564584.0958	564565.7274	564556.1993	N	
			STA	0+029.8648	0+142.5350	0+200.2327	0+298.6252	0+421.9139	0+553.8085	STA	
		CS/CT /CC	E	564607.3656	544368.3552	544433.1539	544522.5672	564556.6267	564551.5147	E	CS/CT /CC
			N	544328.8753	564604.6226	564584.6414	564583.0108	544732.9050	544832.8287	N	
			STA	0+115.4960	0+155.2327	0+223.3048	0+312.7872	0+525.0029	0+625.1147	STA	
		ST/SS	E		544387.1280	544458.1334	544542.3539			E	ST/SS
			N		564597.7649	564583.9913	564580.1125			N	
			STA		0+175.2327	0+248.3048	0+332.7872			STA	
	96°02'43.19"	AZIMUTH		89°02'10.74"	112°27'15.32"	89°30'05.40"	99°17'17.56"	90°51'00.93"	96°41'12.29"		AZIMUTH

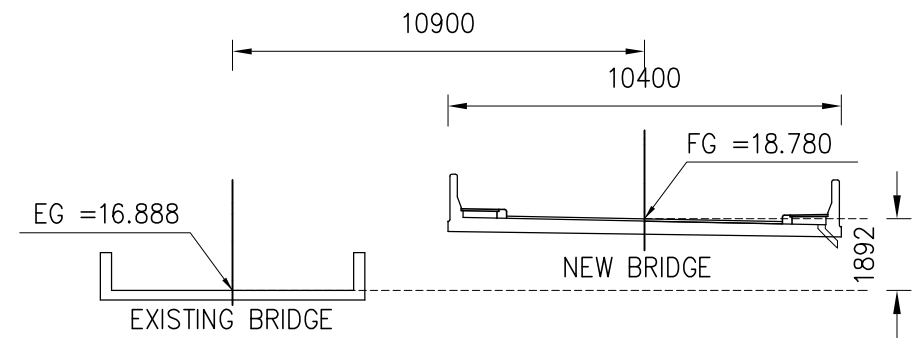
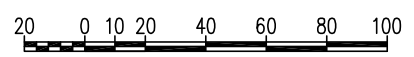
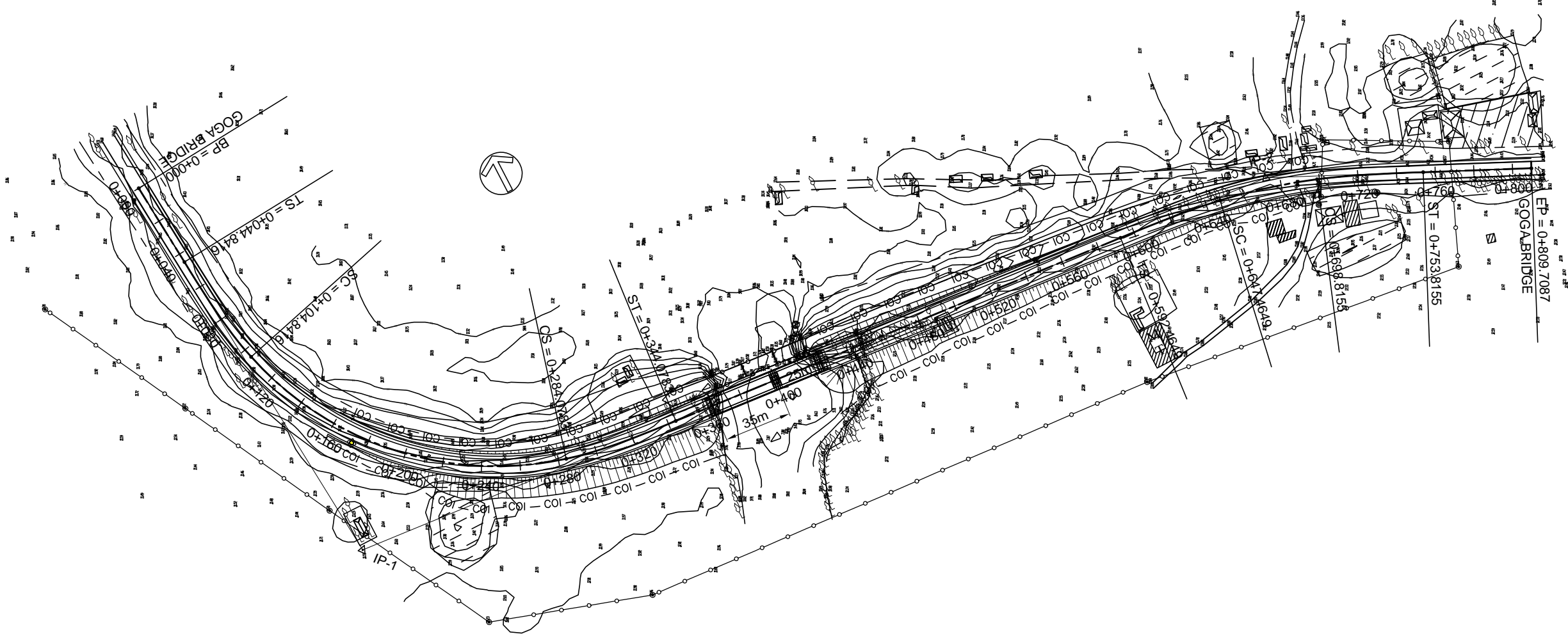


SHAJONPUR BAILEY BRIDGE  
# R860\_35a

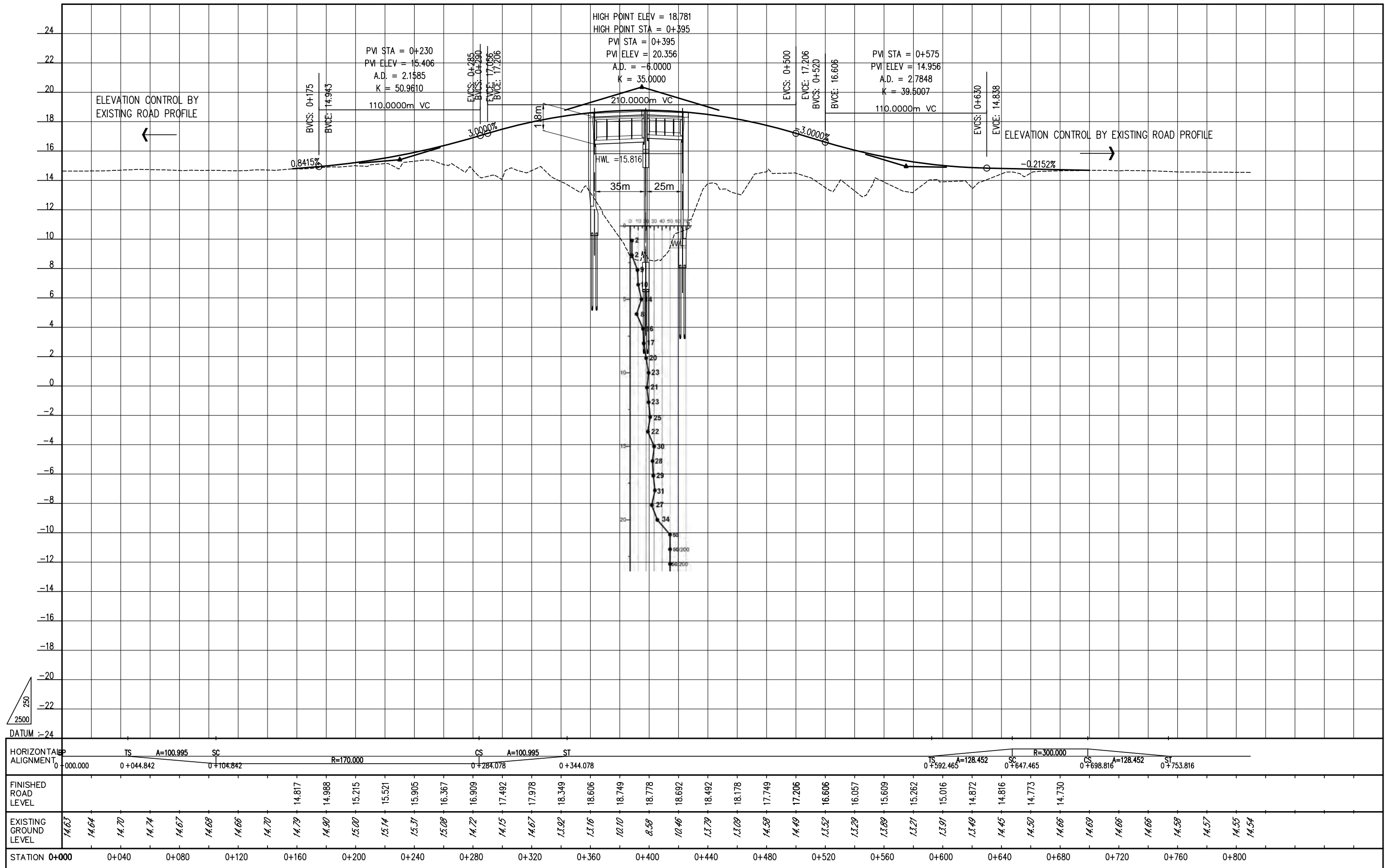
<b>MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)</b> PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT (RHD)	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b>	<b>ORIENTAL CONSULTANTS GLOBAL CO., LTD.</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	No	REVISION	DATE	<b>PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT</b>		DESIGNED BY:	
						PLAN OF SHAJONPUR BRIDGE (R860_35a) RANK : 84, SN : 99, ZONE : GOPALGANJ, BRIDGE TYPE : PCG		CHECKED BY:	
								APPROVED BY:	
								DWG. NO.	BR 084-1





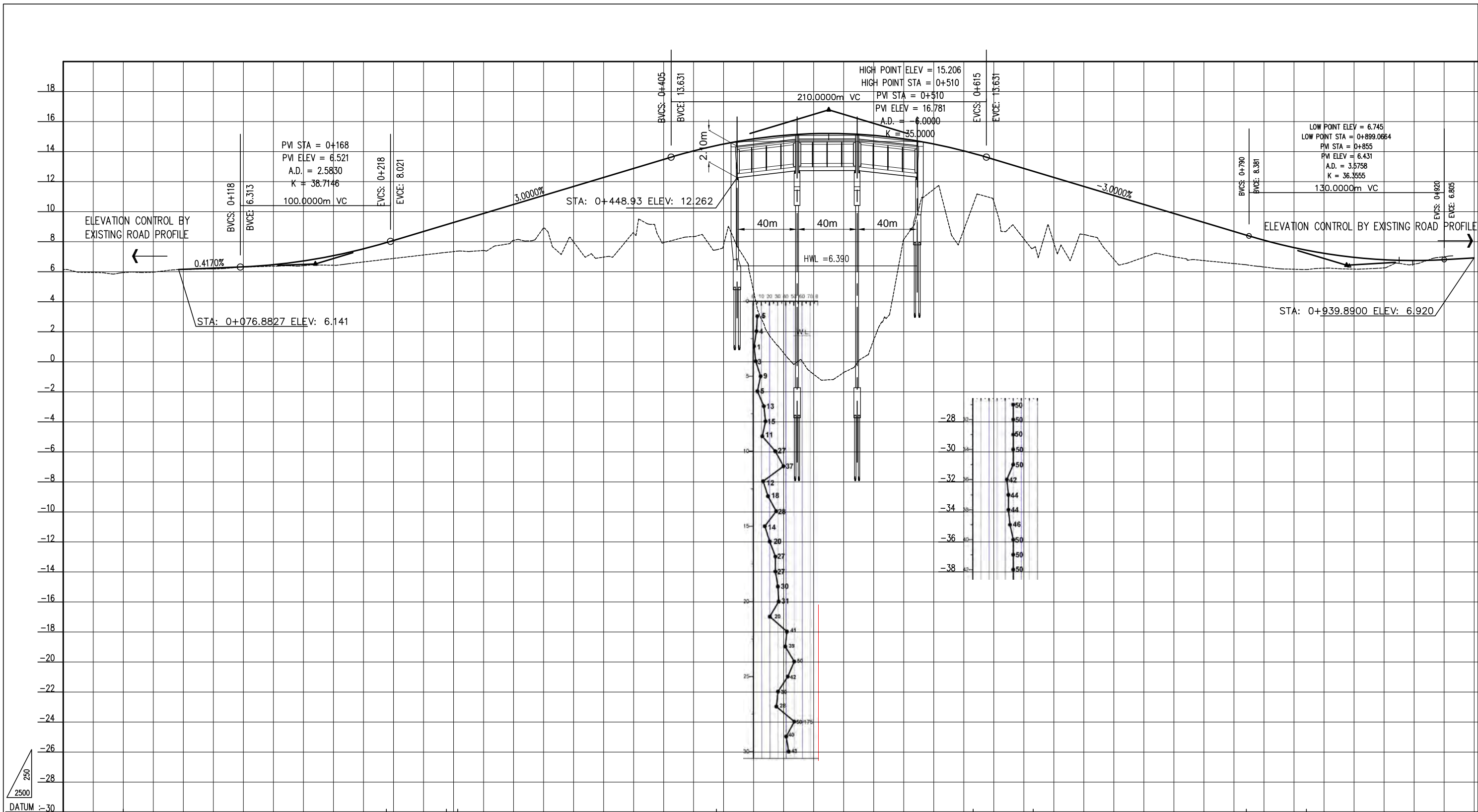


BP		IP-1		IP-2		EP	
X	445990.7525	V (Kph)	50	60	V (Kph)	X	446633.5390
Y	717722.0965	TYPE	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	TYPE	Y	717398.8372
STA	0+000	Δ	80°37'51.21"	20°18'41.25"	Δ	STA	0+809.7087
		R (m)	170.0000	300.0000	R (m)		
		A	100.9950   100.9950	128.4523   128.4523	A		
		TS / TC (m)	174.9660   174.9660	81.3068   81.3068	TS / TC (m)		
		LC (m)	179.2367	51.3505	LC (m)		
		LS (m)	60.0000   60.0000	55.0000   55.0000	LS (m)		
		L (m)	299.2370	161.3510	L (m)		
		e max (%)			e max (%)		
		PI	E 446007.0042 N 717502.8904	446509.6430 717457.7746	PI		
		TS	E 445994.0679 N 717677.3776 STA 0+044.8416	446428.6618 717465.0433 0+592.4649	TS		
		SC/TC /SS/CC	E 446002.0022 N 717617.9882 STA 0+104.8416	446483.2454 717458.4577 0+647.4649	SC/TC /CC/SS		
		CS/CT /CC	E 446122.0106 N 717496.1034 STA 0+284.0783	446532.7191 717444.9374 0+698.8155	CS/CT /CC		
		ST	E 446181.2697 N 717487.2487 STA 0+344.0783	446583.0656 717422.8474 0+753.8155	ST		
		175°45'35.63"	AZIMUTH	95°07'44.42"	115°26'25.67"	AZIMUTH	



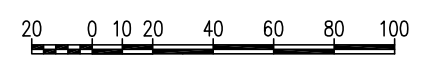
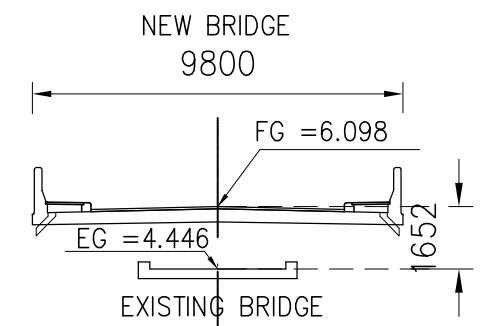
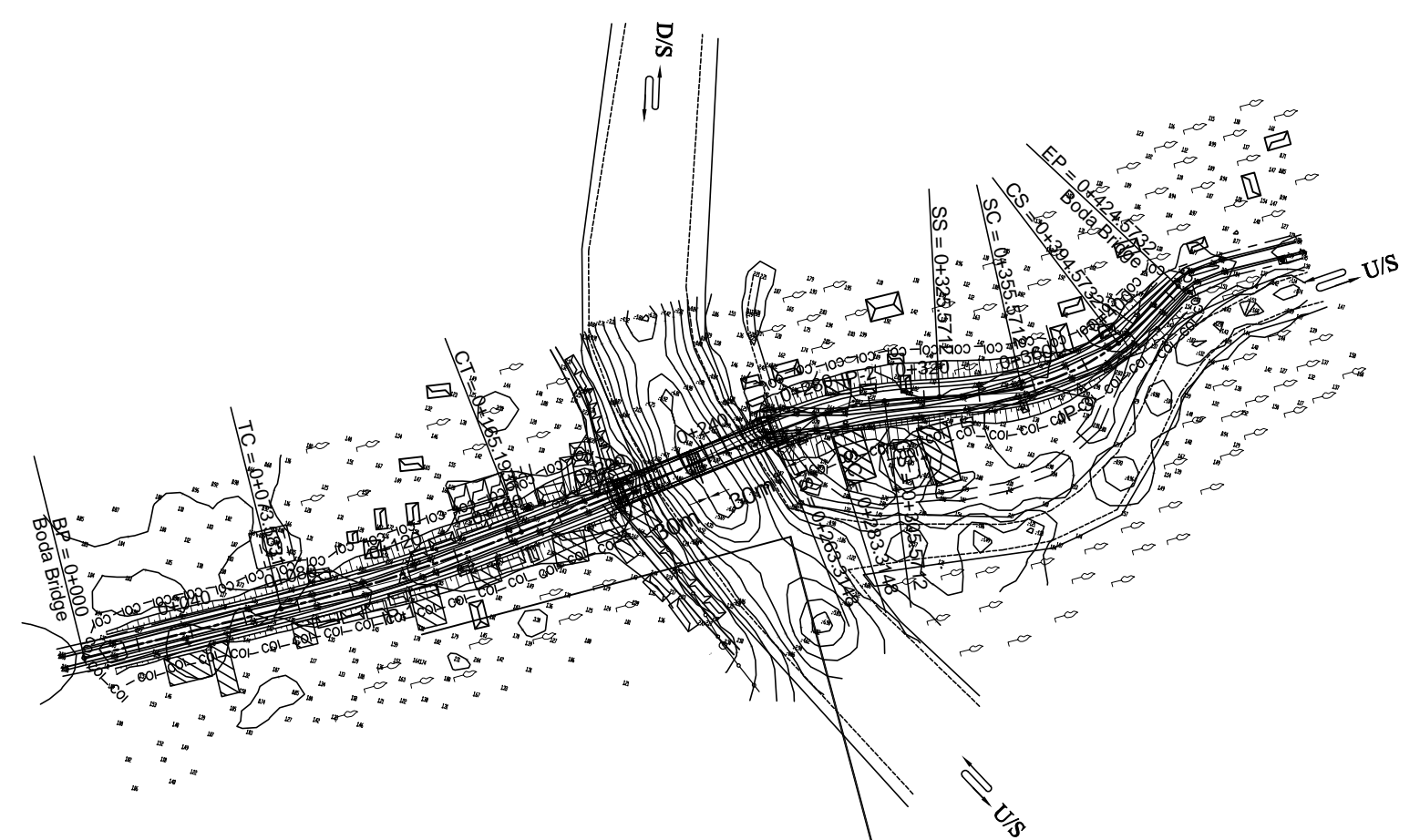


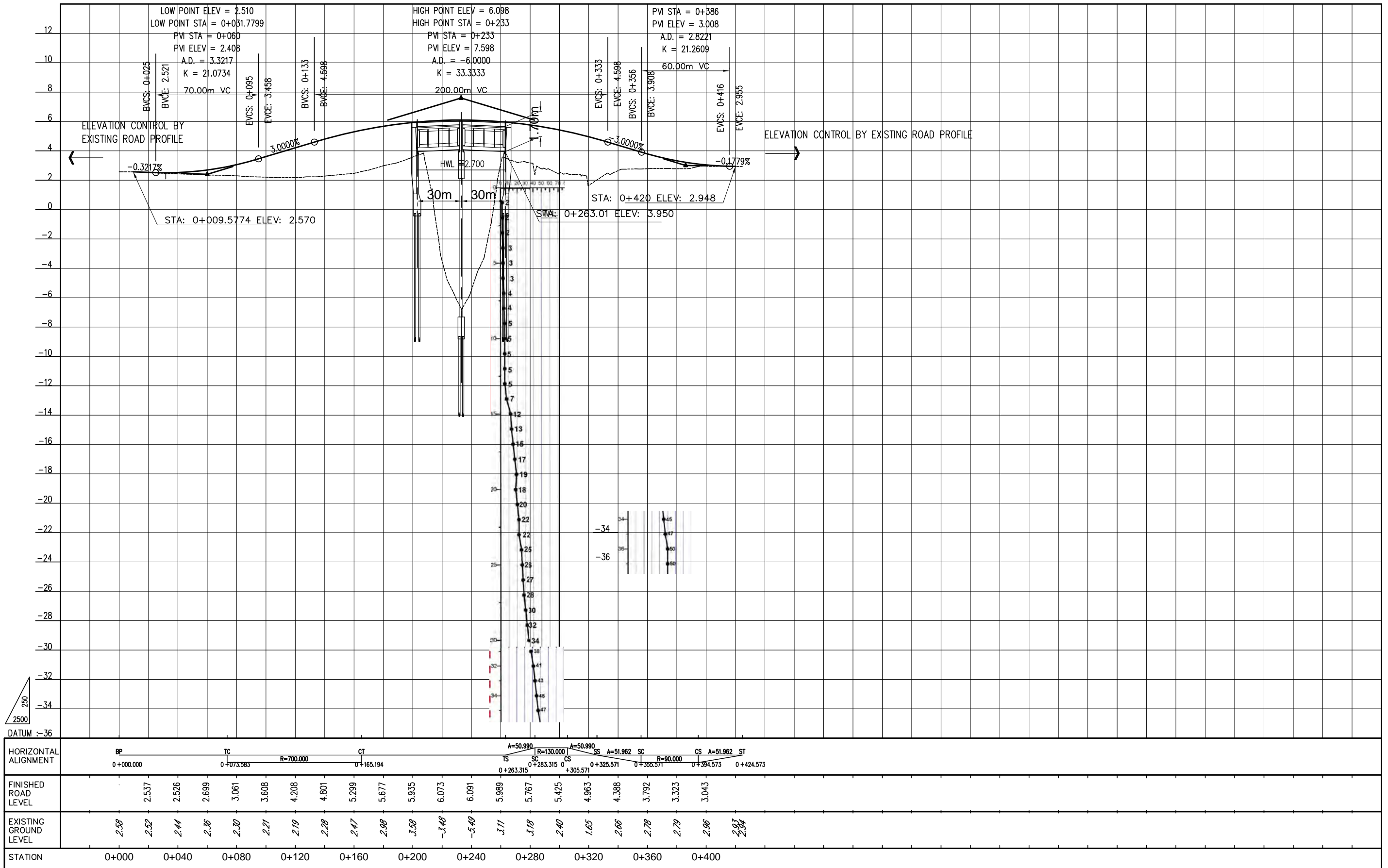
BP		IP-1			IP-2			IP-3			EP									
X	498480.1152	v (Kph)			80			80			v (Kph)		X	498652.8242						
Y	585495.8183	TYPE			SPIRAL-CIRCLE-SPIRAL			FULL CIRCLE			SPIRAL-CIRCLE-SPIRAL			Y	586390.7243					
STA	0+000	36°16'53.16"			4°56'20.54"			18°57'23.07"			△			STA	0+925.8110					
		R (m)			340.0000			2000.0000			550.0000			R (m)						
		A			116.6190   116.6190						148.3240   148.3240			A						
		TS / TC (m)			131.4585   131.4585			86.2559			111.8427   111.8427			TS / TC (m)						
		LC (m)			175.2984			172.4049			141.9685			LC (m)						
		LS (m)			40.0000   40.0000						40.0000   40.0000			LS (m)						
		L (m)			255.2980			172.4049			221.9690			L (m)						
		e max (%)												e max (%)						
		PI		E	498450.4511		498539.3096		498655.2200		E	PI	N	585623.8862		585830.8083		586181.2668		N
		TS		E	498480.1152				498620.1002		E	TS	N	585495.8183				586075.0811		N
		STA		0+000						0+606.2140			STA							
		SC/TC /SS/CC		E	498471.8561		498505.2743		498632.1987		E	SC/TC /CC/SS	N	585534.9501		585751.5512		586113.2051		N
		STA		0+040			0+262.7784			0+646.2140			STA							
		CS/CT /CC		E	498487.2653		585912.7013		498653.9135		E	CS/CT /CC	N	585707.6271		498566.3948		586253.1045		N
		STA		0+215.2984			0+435.1834			0+788.1824			STA							
		ST		E	498502.3228				498653.9408		E	ST	N	585744.6781				586293.1022		N
		STA		0+255.2984						0+828.1824			STA							
		346°57'31.27"		AZIMUTH		23°14'24.43"		18°18'03.90"		359°20'40.82"		AZIMUTH								



HORIZONTAL ALIGNMENT		R=340.000										R=2000.000										R=550.000																																																																	
CS	SC											CS	ST											TS	SC											CS	ST																																																		
0+000.000	0+040.000											0+215.298	0+255.29778											0+435.183											0+606.214	0+646.214											0+788.182	0+828.182																																							
FINISHED ROAD LEVEL		6.154		6.238		6.322		6.467		6.716		7.068		7.523		8.081		8.681		9.281		9.881		10.481		11.081		11.681		12.281		12.881		13.481		14.049		14.506		14.849		15.078		15.192		15.192		15.078		14.849		14.506		14.049		13.481		12.881		12.281		11.681		11.081		10.481		9.881		9.281		8.681		8.095		7.605		7.225		6.955		6.795		6.745		6.805	
EXISTING GROUND LEVEL		6.15	5.95	5.94	5.97	6.15	6.19	6.31	6.37	6.40	6.43	6.65	6.88	7.11	7.34	7.41	8.09	8.89	7.99	6.97	8.57	7.93	8.34	7.80	4.67	0.59	-0.83	-0.71	1.47	8.15	11.50	8.79	10.65	8.18	7.90	8.47	6.82	6.96	6.99	6.74	6.54	6.32	6.16	6.23	6.17	6.23	6.50	7.00	7.05																																						
STATION		0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+320	0+360	0+400	0+440	0+480	0+520	0+560	0+600	0+640	0+680	0+720	0+760	0+800	0+840	0+880	0+920																																																														

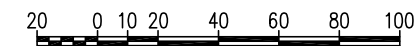
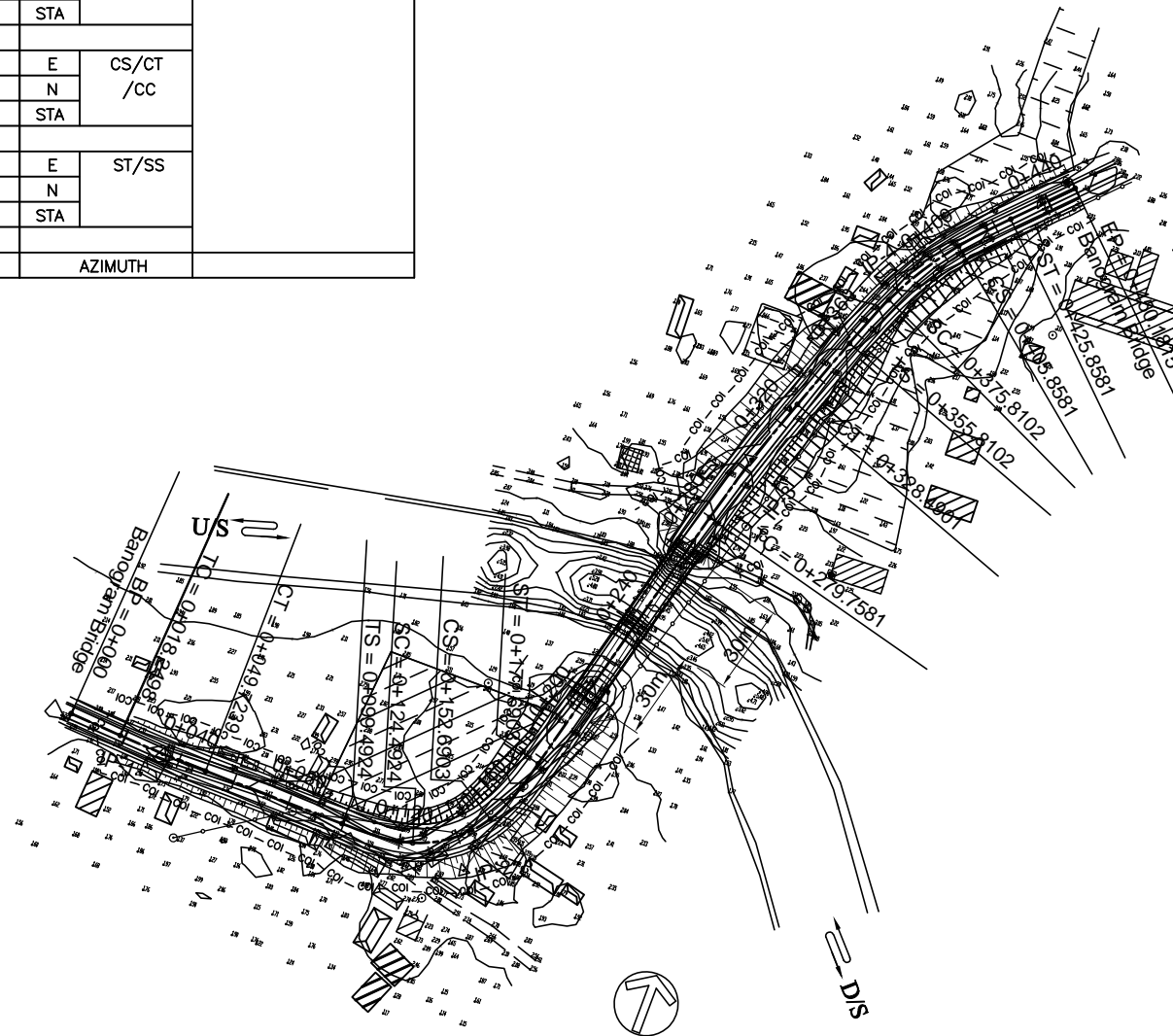
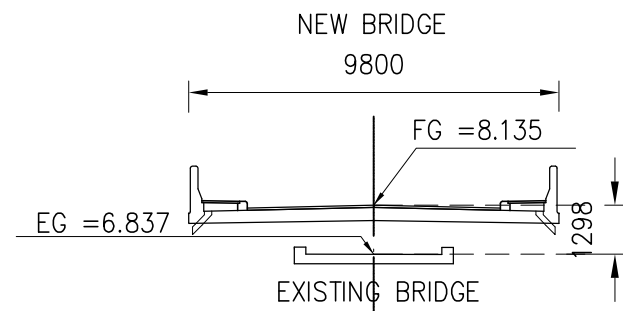
BP		IP-1	IP-2	IP-3	EP			
X	516376.8422	v (Kph)	50	50	40	v (Kph)	X	516348.2158
Y	485541.0656	TYPE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	TYPE	Y	485959.2905
STA	0+000	$\Delta$	7°29'54.31"	18°37'26.27"	43°55'40.90"	$\Delta$	STA	0+424.5732
		R (m)	700.0000	130.0000	90.0000	R (m)		
		A		50.9902   50.9902	51.9615   51.9615	A		
		TS / TC (m)	45.8707	31.3353   31.3353	51.4506   51.4506	TS / TC (m)		
		LC (m)	91.6105	22.2564	39.0020	LC (m)		
		LS (m)		20.0000   20.0000	30.0000   30.0000	LS (m)		
		L (m)	91.6105	62.2560	99.0020	L (m)		
		e max (%)				e max (%)		
		PI				PI		
		E	516378.6004	516358.2813	516375.4494	E		
		N	485660.5065	485834.6523	485915.6385	N		
		TS/SS				TS/SS		
		E		516361.9128	516364.7796	E		
		N		485803.5282	485865.3063	N		
		STA		0+263.3148	0+325.5712	STA		
		SC/TC /CC				SC/TC /CC		
		E	516377.9252	516360.1055	516369.3565	E		
		N	485614.6408	485823.4410	485894.9177	N		
		STA	0+073.5831	0+283.3148	0+355.5712	STA		
		CS/CT /CC				CS/CT /CC		
		E	485706.0682	516361.1359	516362.6400	E		
		N	516373.2843	485845.6464	485933.0279	N		
		STA	0+165.1936	0+305.5712	0+394.5732	STA		
		ST/SS				ST/SS		
		E		516364.7796	516348.2158	E		
		N		485865.3063	485959.2905	N		
		STA		0+325.5712	0+424.5732	STA		
		AZIMUTH	353°20'41.63"	11°58'07.90"	328°02'27.00"	AZIMUTH		



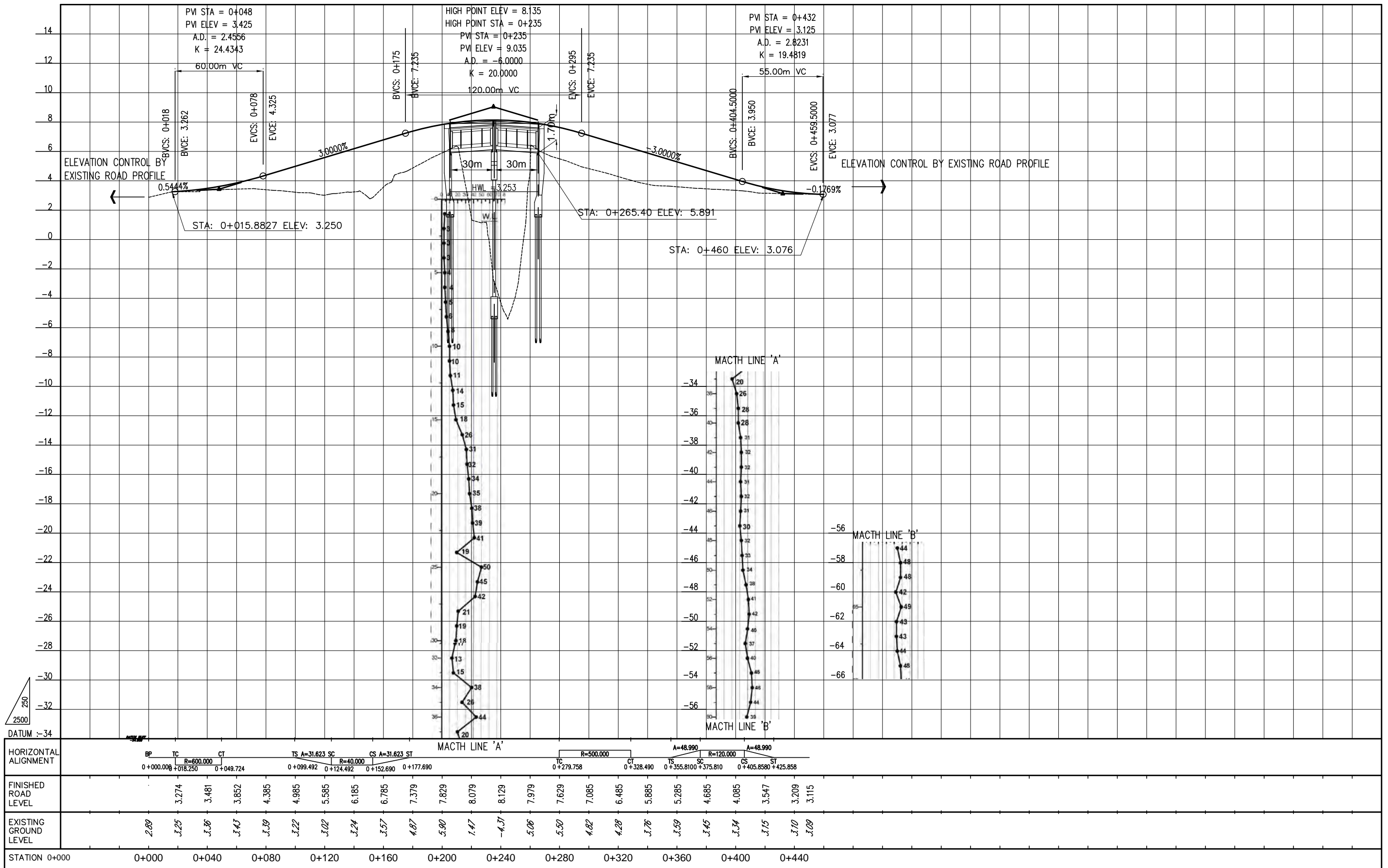


STATION	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+320	0+360	0+400
FINISHED ROAD LEVEL	2.537	2.526	2.699	3.061	3.608	4.208	4.801	5.299	5.677	5.935	6.073
EXISTING GROUND LEVEL	2.58	2.52	2.44	2.36	2.30	2.21	2.19	2.28	2.47	2.98	3.58

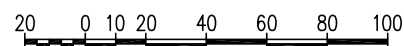
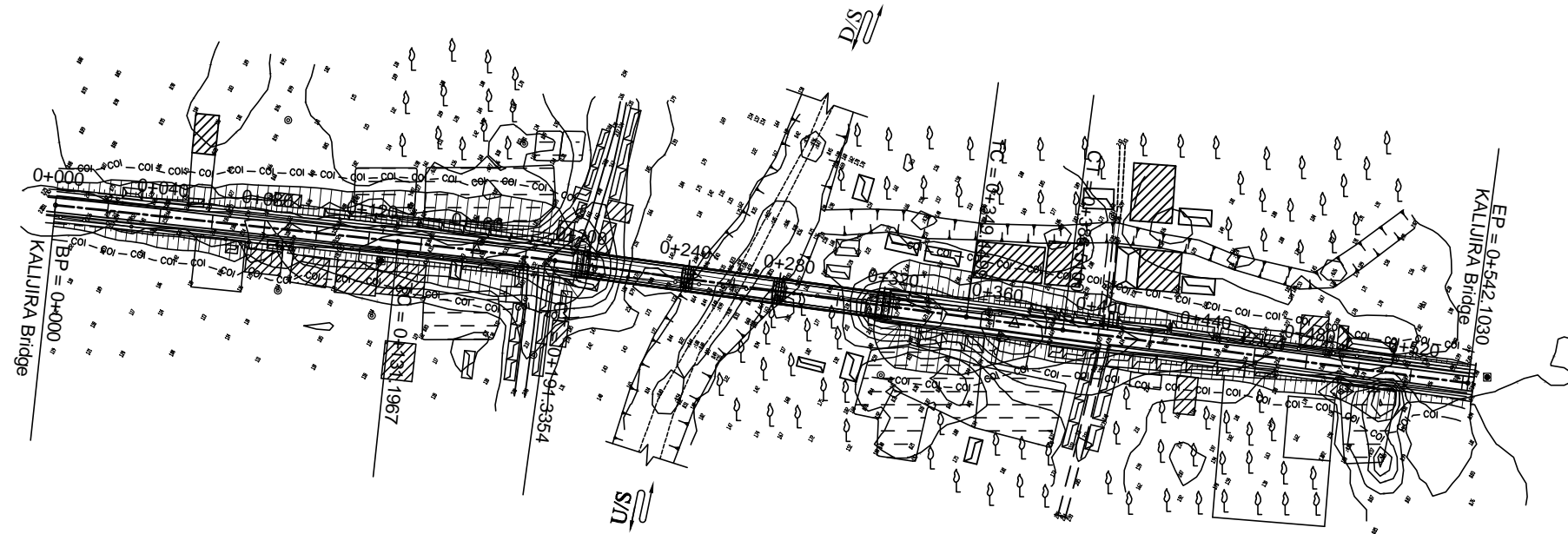
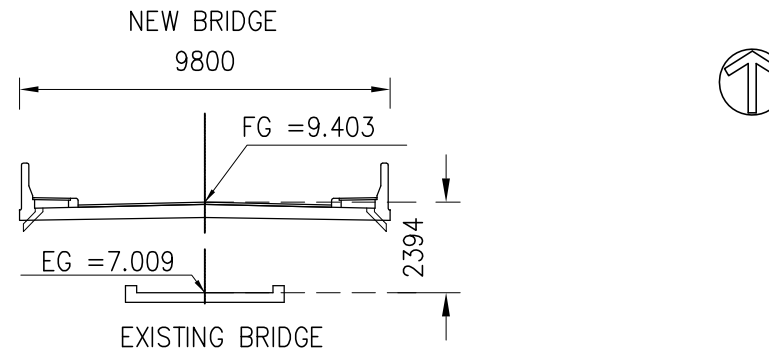
BP		IP-1	IP-2	IP-3	IP-4	EP			
X	528626.7216	50	30	50	50	V (Kph)	X	528884.5967	
Y	483337.4149	TYPE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	TYPE	Y	483624.0786
STA	0+000	$\Delta$	3'00'20.01"	76'12'01.12"	5'35'03.40"	23'53'46.04"	$\Delta$	STA	0+450.1815
		R (m)	600.0000	40.0000	500.0000	120.0000	R (m)		
		A		31.6228	31.6228		A		
		TS / TC (m)	15.7407	44.3323	44.3323	24.3853	35.4202	35.4202	TS / TC (m)
		LC (m)	31.4741	28.1979		48.7320	30.0479		LC (m)
		LS (m)		25.0000	25.0000		20.0000	20.0000	LS (m)
		L (m)	31.4741	78.1980		48.7320	70.0480		L (m)
		e max (%)							e max (%)
		PI	E	528660.6413	528770.4748	528813.2103	528843.1166	E	PI
			N	483335.2233	483333.8978	483499.2500	483581.0820	N	
		TS/SS	E		528726.1457		528830.9585	E	TS/SS
			N		483334.4328		483547.8139	N	
			STA		0+099.4924		0+355.8102	STA	
		SC/TC /cc	E	528644.9334	528750.9320	528807.1084	528838.3404	E	SC/TC /cc
			N	483336.2382	483336.7199	483475.6404	483566.3951	N	
			STA	0+018.2498	0+124.4924	0+279.7581	0+375.8102	STA	
		CS/CT /cc	E	483335.0333	528772.8693	483522.1537	528854.2321	E	CS/CT /cc
			N	528676.3808	483353.4975	528821.5807	483591.8041	N	
			STA	0+049.7239	0+152.6903	0+328.4901	0+405.8581	STA	
		ST/SS	E		528781.5680		528867.7089	E	ST/SS
			N		483376.8198		483606.5734	N	
			STA		0+177.6903		0+425.8581	STA	
	93°41'49.02"	AZIMUTH		90°41'29.01"	14°29'27.89"	20°04'31.29"	43°58'17.33"		AZIMUTH



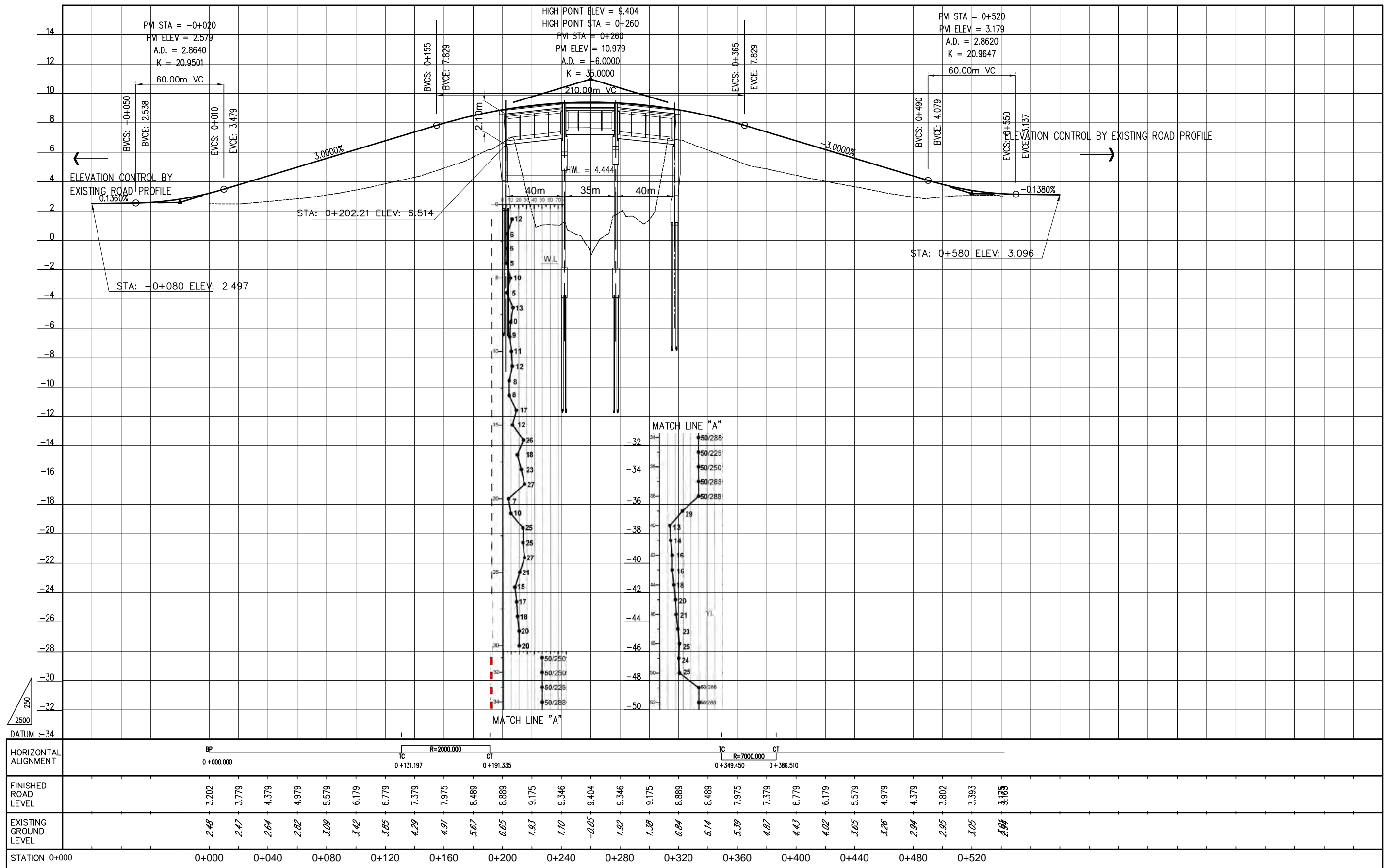




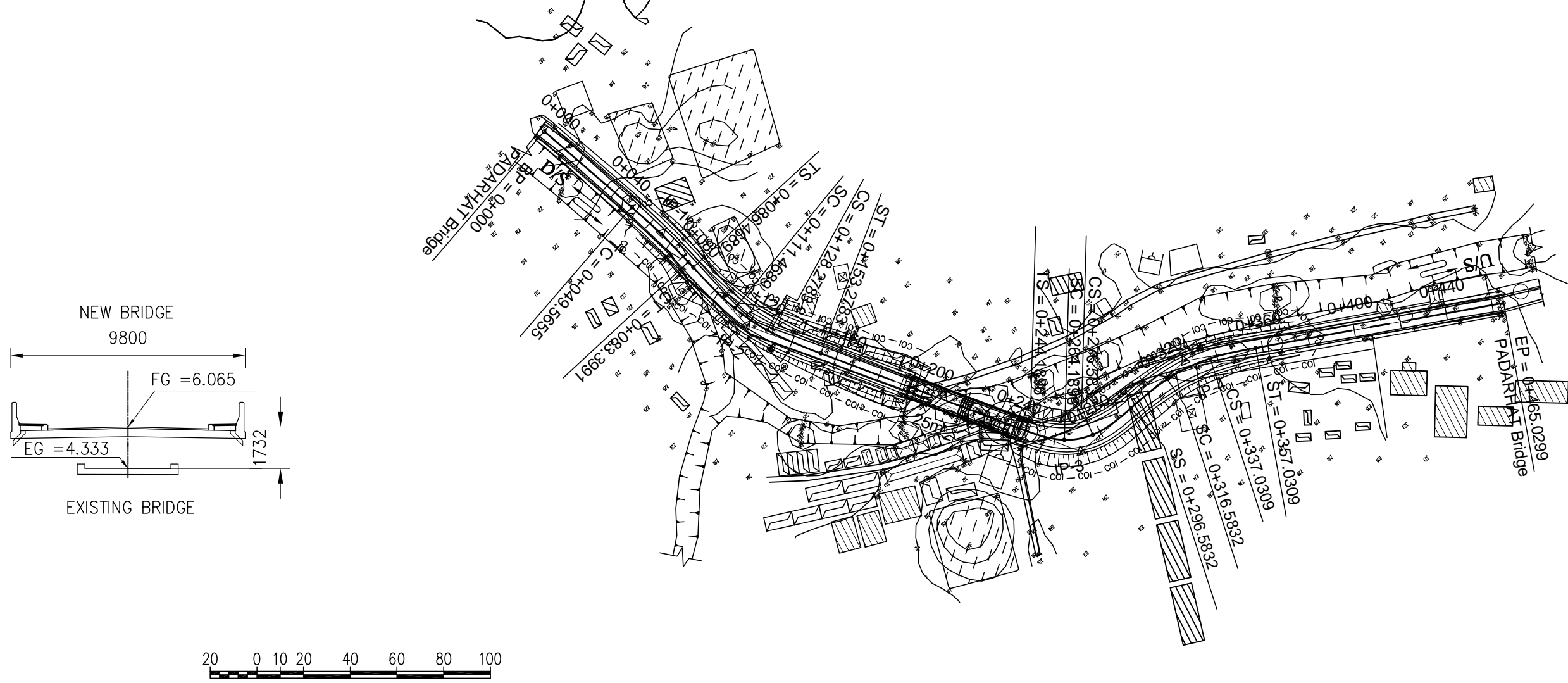
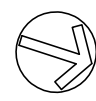
BP		IP-1	IP-2	EP			
X	525790.6047	V (Kph)	50	50	V (Kph)	X	526328.4139
Y	519300.9824	TYPE	FULL CIRCLE	FULL CIRCLE	TYPE	Y	519233.2065
STA	0+000	$\Delta$	1'43'22.24"	0'18'12.03"	$\Delta$	STA	0+542.1030
		R (m)	2000.0000	7000.0000	R (m)		
		A			A		
		TS / TC (m)	30.0716	18.5301	TS / TC (m)		
		LC (m)	60.1387	37.0601	LC (m)		
		LS (m)			LS (m)		
		L (m)	60.1387	37.0601	L (m)		
		e max (%)			e max (%)		
		PI	E	525950.9689	526155.7761	E	PI
			N	519283.9300	519255.9018	N	
		TS/SS	E			E	TS/SS
			N			N	
			STA			STA	
		SC/TC /CC	E	525921.0659	526137.4172	E	SC/TC /CC
			N	519287.1098	519258.4143	N	
			STA	0+131.1967	0+349.4499	STA	
		CS/CT /CC	E	519279.8527	519253.4866	E	CS/CT /CC
			N	525980.7628	526174.1482	N	
			STA	0+191.3354	0+386.5100	STA	
		ST/SS	E			E	ST/SS
			N			N	
			STA			STA	
96°04'11.16"	AZIMUTH	97°47'33.40"	97°29'21.37"	AZIMUTH			

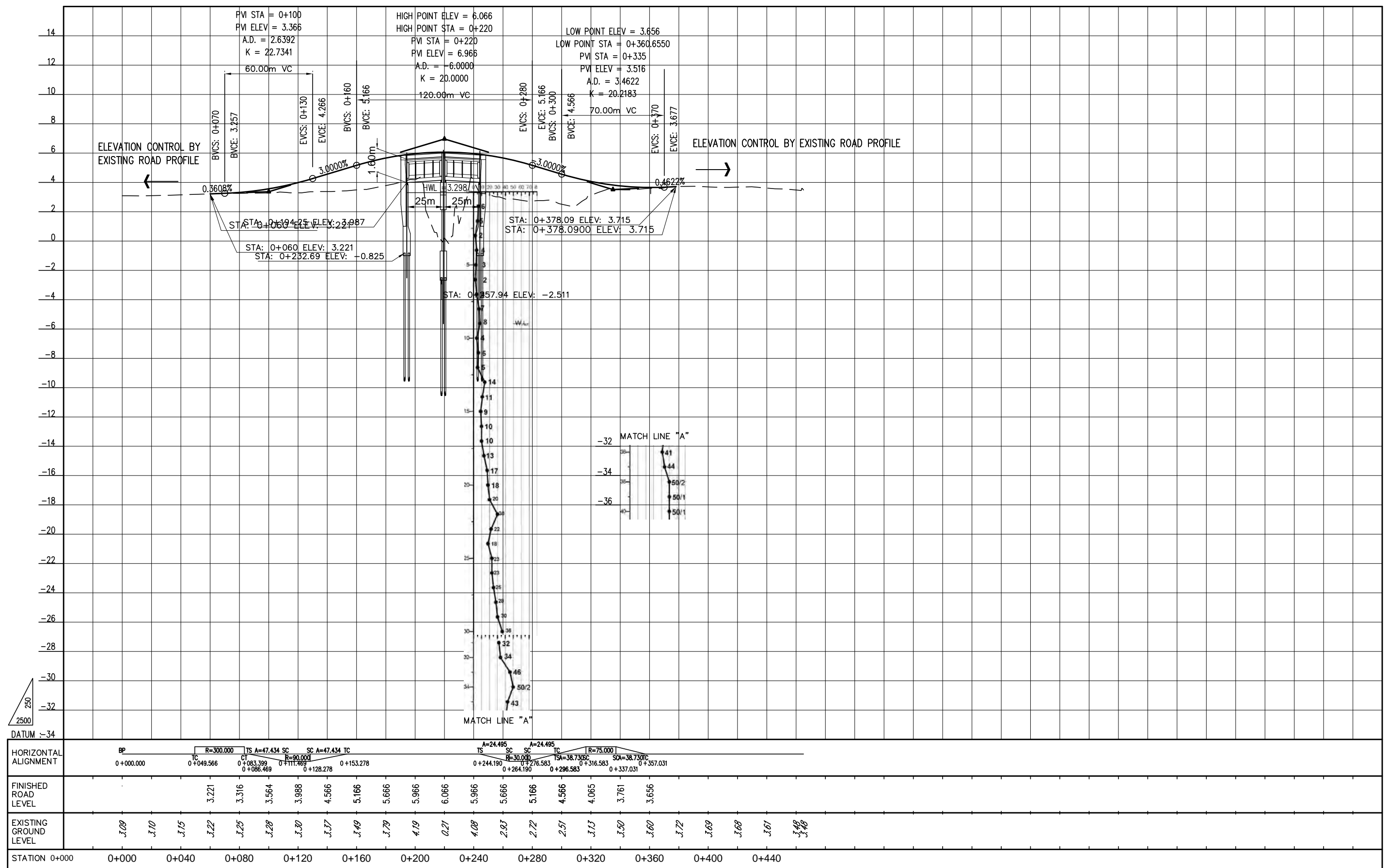


<b>MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)</b> PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT (RHD)	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>ORIENTAL CONSULTANTS GLOBAL CO., LTD.</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	No	REVISION	DATE	<b>PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT</b>		DESIGNED BY:
					PLAN OF KALIJIRA BRIDGE (Z8033_008a) RANK : 89, SN : 94, ZONE : BARISAL, BRIDGE TYPE : PCG		CHECKED BY:
					APPROVED BY:	DWG. NO.	BR 089-1

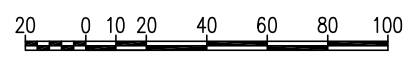
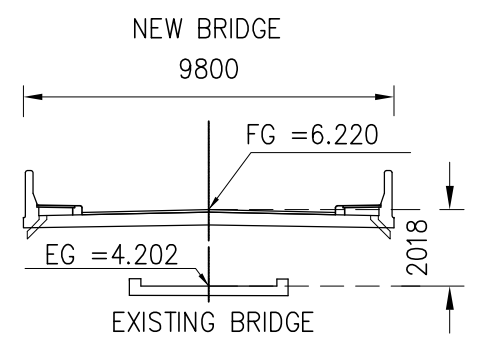


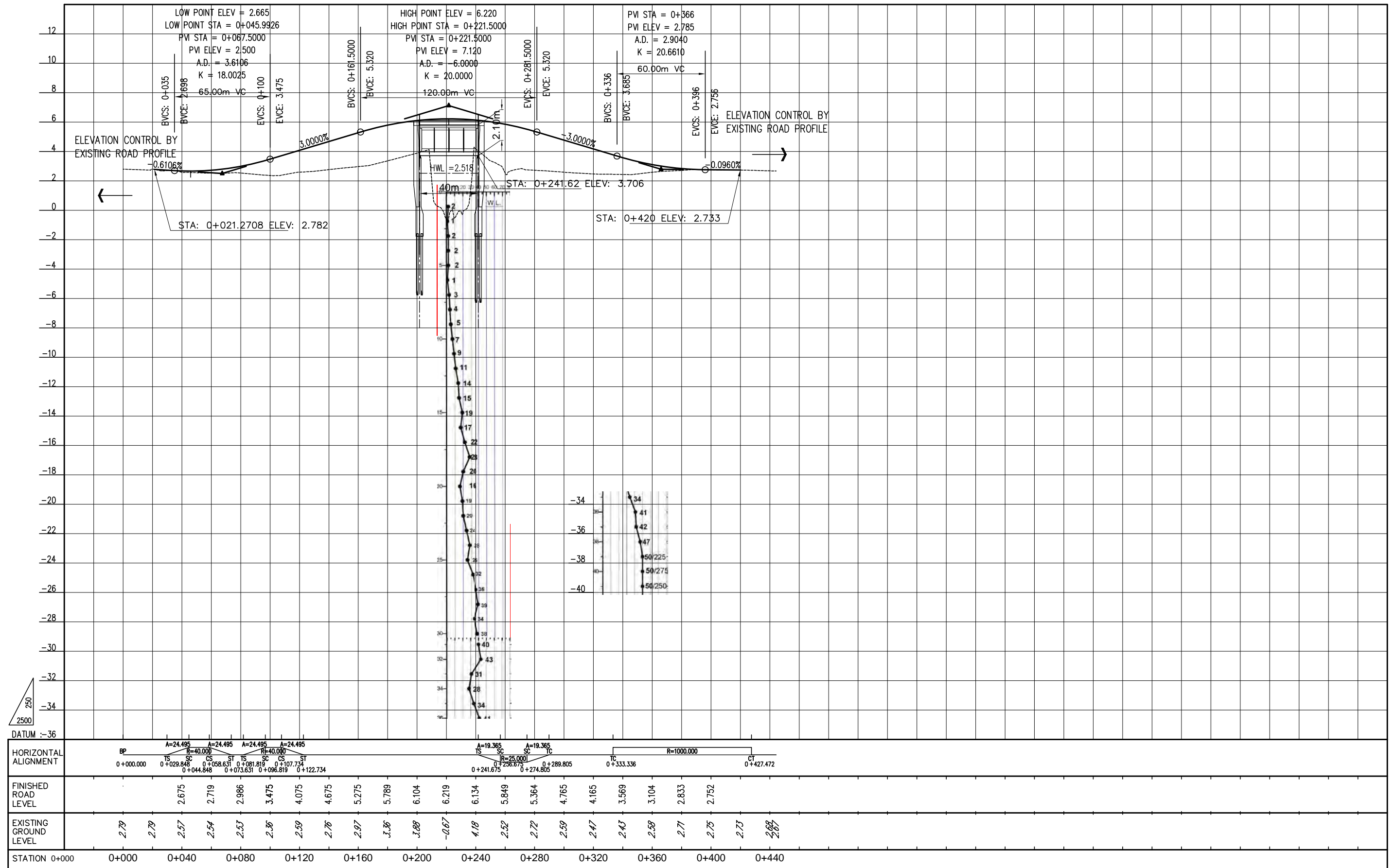
BP		IP-1	IP-2	IP-3	IP-4	EP			
X	538843.2244	V (Kph)	50	40	30	40	V (Kph)	X	538787.2917
Y	525087.7579	TYPE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	TYPE	Y	525501.5095
STA	0+000	$\Delta$	6°27'42.24"	26°37'00.12"	61°52'02.01"	30°53'59.00"	$\Delta$	STA	0+465.0299
		R (m)	300.0000	90.0000	30.0000	75.0000	R (m)		
		A		47.4342	47.4342	24.4949	24.4949	A	
		TS / TC (m)	16.9347	33.8493	33.8493	28.2732	28.2732	TS / TC (m)	
		LC (m)	33.8336	16.8094	12.3936	20.4476	20.4476	LC (m)	
		LS (m)		25.0000	25.0000	20.0000	20.0000	LS (m)	
		L (m)	33.8336	66.8090	52.3940	60.4480	60.4480	L (m)	
		e max (%)						e max (%)	
		PI	E	538869.2156	538895.7089	538903.3234	538852.6933	E	PI
			N	525148.9686	525195.8550	525348.6994	525379.1027	N	
		TS/SS	E		538879.0568	538901.9166	538879.0846	E	TS/SS
			N		525166.3850	525320.4612	525363.2547	N	
			STA		0+086.4689	0+244.1896	0+296.5832	STA	
		SC/TC /CC	E	538862.5968	538890.3255	538900.6988	538862.4260	E	SC/TC /CC
			N	525133.3809	525188.6772	525340.3253	525374.2937	N	
			STA	0+049.5655	0+111.4689	0+264.1896	0+316.5832	STA	
		CS/CT /CC	E	525163.7124	538894.9972	538894.9062	538848.3775	E	CS/CT /CC
			N	538877.5466	525204.7990	525351.1823	525389.0640	N	
			STA	0+083.3991	0+128.2783	0+276.5832	0+337.0309	STA	
		ST/SS	E		538897.3931	538879.0846	538838.1862	E	ST/SS
			N		525229.6624	525363.2547	525406.2543	N	
			STA		0+153.2783	0+296.5832	0+357.0309	STA	
23°00'25.19"	AZIMUTH		29°28'07.43"	2°51'07.31"	300°59'05.30"	331°53'04.30"		AZIMUTH	

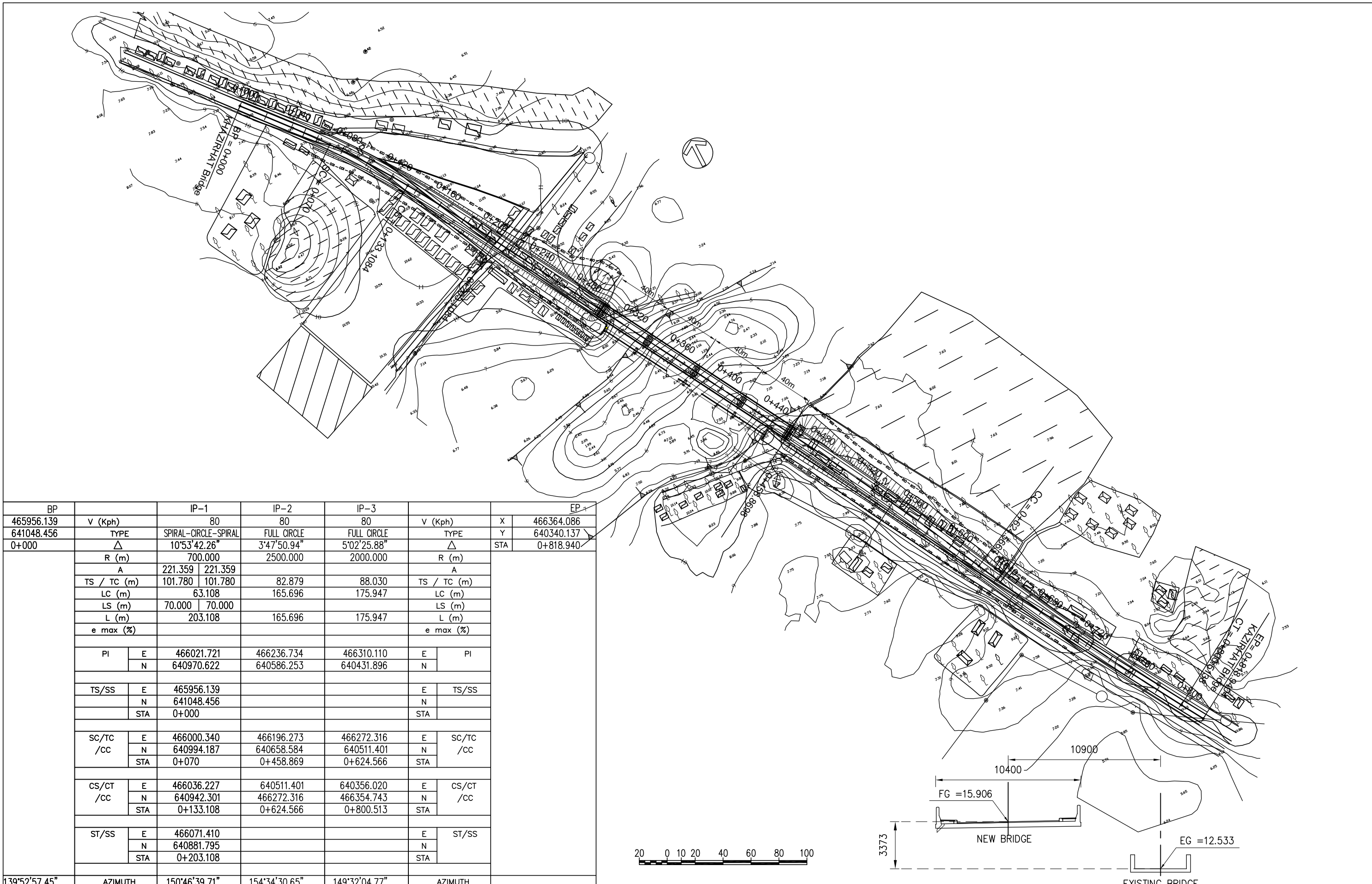




BP		IP-1		IP-2		IP-3		IP-4		EP				
X	542805.5691	V (Kph)		30		30		20		40		V (Kph)	X	542597.1629
Y	505389.6472	TYPE		spiral-circle-spiral		spiral-circle-spiral		spiral-circle-spiral		FULL CIRCLE		TYPE	Y	505698.1306
STA	0+000	△		41°13'39.32"		37°07'16.85"		75°55'40.78"		5°23'36.93"		△	STA	0+444.2554
R (m)		40.0000		40.0000		25.0000		1000.0000		R (m)				
A		24.4949	24.4949	24.4949	24.4949	19.3649	19.3649			A				
TS / TC (m)		22.6253	22.6253	21.0007	21.0007	27.2761	27.2761	47.1028		TS / TC (m)				
LC (m)		13.7823		10.9156		18.1298		94.1359		LC (m)				
LS (m)		15.0000	15.0000	15.0000	15.0000	15.0000	15.0000			LS (m)				
L (m)		43.7820		40.9160		48.1300		94.1359		L (m)				
e max (%)										e max (%)				
PI		E	542756.6873	542732.8024	542760.8946	542652.9649	E	PI						
N		505408.7275	505454.7079	505619.5490	505667.0244	N								
TS/SS		E	542777.7638	542742.4832	542756.3123	E	TS/SS							
N		505400.5005	505436.0715	505592.6606	N									
STA		0+029.8484	0+081.8186	0+241.6751	STA									
SC/TC /CC		E	542764.1797	542736.4228	542757.3404	542696.0807	E	SC/TC /CC						
N		505406.8068	505449.7671	505607.5653	505648.0589	N								
STA		0+044.8484	0+096.8186	0+256.6751	0+333.3360	STA								
CS/CT /CC		E	542753.9778	542734.7413	542748.9344	505689.9587	E	CS/CT /CC						
N		505415.9720	505460.5181	505623.1818	542611.8226	N								
STA		0+058.6307	0+107.7342	0+274.8050	0+427.4719	STA								
ST/SS		E	542746.2576	542736.3305	542735.9272	E	ST/SS							
N		505428.8054	505475.4101	505630.5315	N									
STA		0+073.6307	0+122.7342	0+289.8050	STA									
291°19'20.85"		AZIMUTH		332°33'00.17"	9°40'17.02"	293°44'36.24"	299°08'13.17"	AZIMUTH						

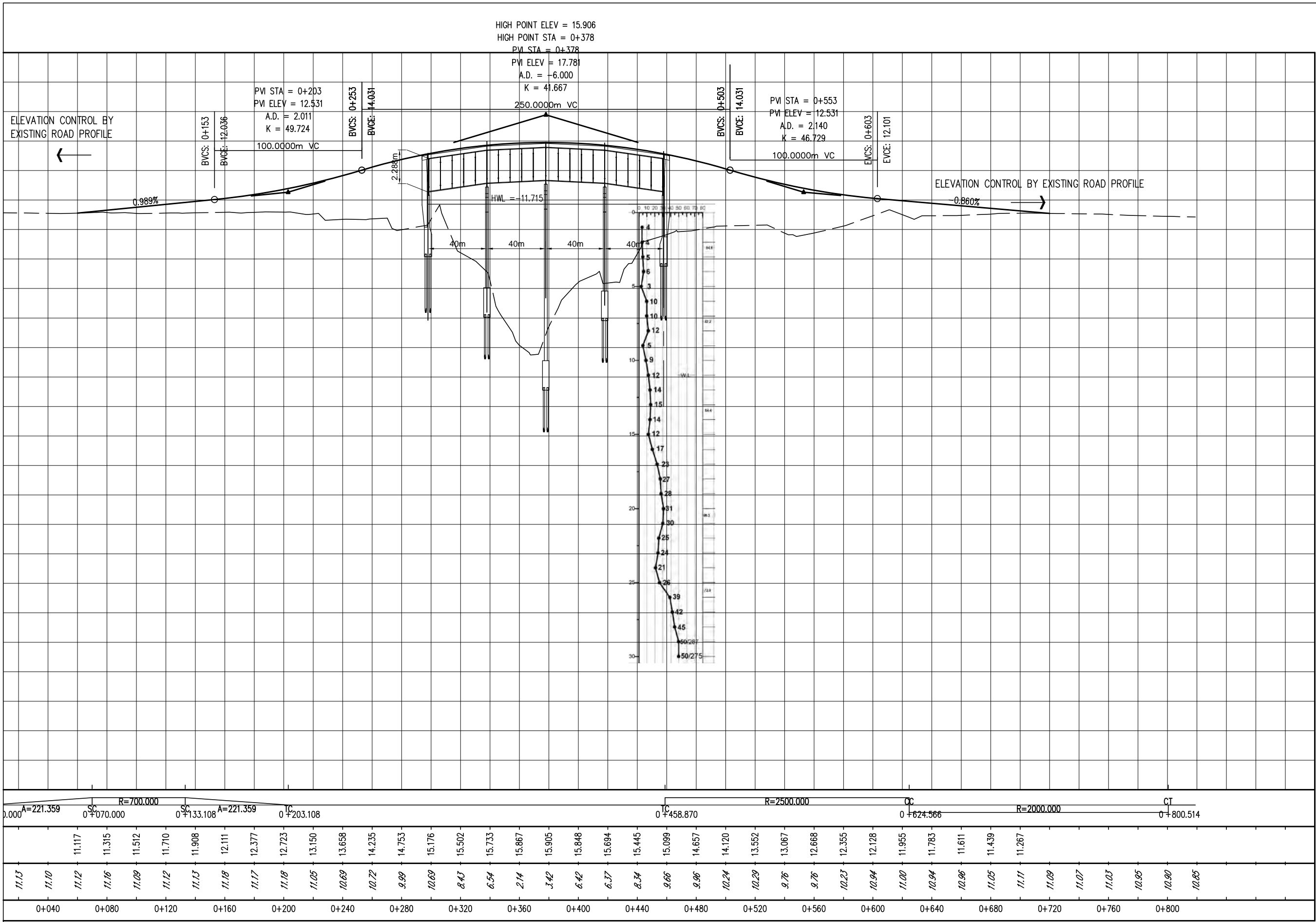


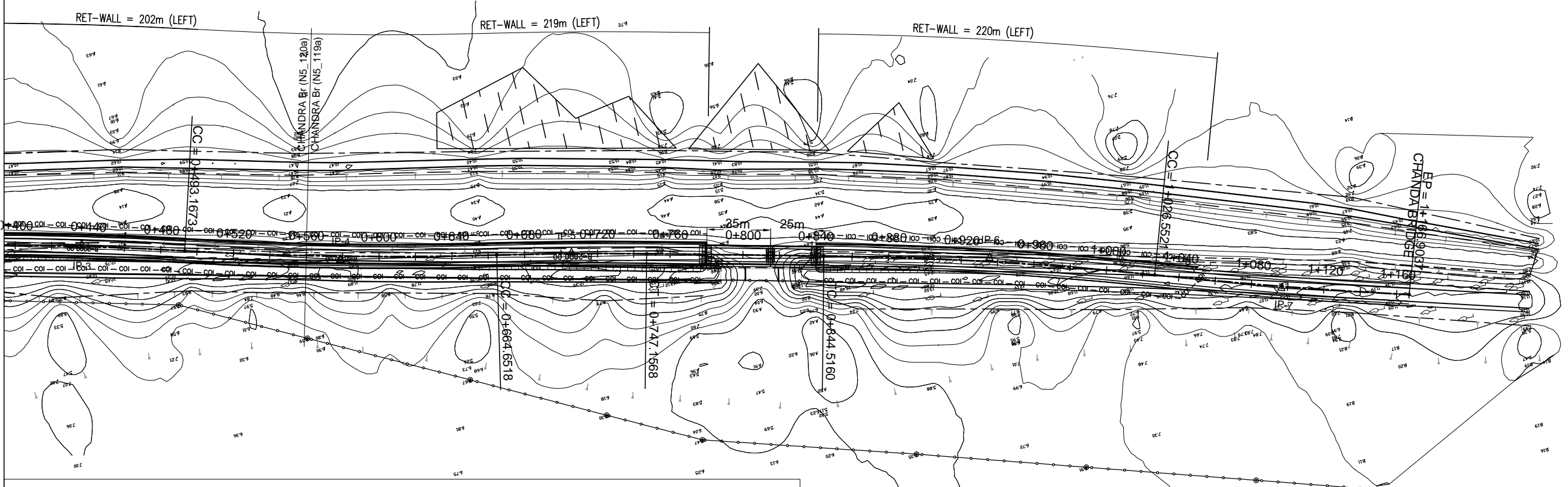
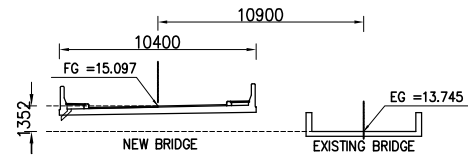




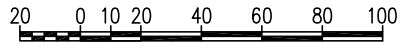
BP		IP-1	IP-2	IP-3		EP
465956.139	V (Kph)	80	80	80	V (Kph)	X 466364.086
641048.456	TYPE	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	FULL CIRCLE	TYPE	Y 640340.137
0+000	$\Delta$	10°53'42.26"	3°47'50.94"	5°02'25.88"	$\Delta$	STA 0+818.940
	R (m)	700.000	2500.000	2000.000	R (m)	
	A	221.359   221.359			A	
	TS / TC (m)	101.780   101.780	82.879	88.030	TS / TC (m)	
	LC (m)	63.108	165.696	175.947	LC (m)	
	LS (m)	70.000   70.000			LS (m)	
	L (m)	203.108	165.696	175.947	L (m)	
	e max (%)				e max (%)	
	PI	E 466021.721 N 640970.622	466236.734 640586.253	466310.110 640431.896	E PI N	
	TS/SS	E 465956.139 N 641048.456 STA 0+000			E TS/SS N STA	
	SC/TC /CC	E 466000.340 N 640994.187 STA 0+070	466196.273 640658.584 0+458.869	466272.316 640511.401 0+624.566	E SC/TC /CC N STA	
	CS/CT /CC	E 466036.227 N 640942.301 STA 0+133.108	640511.401 466272.316 0+624.566	640356.020 466354.743 0+800.513	E CS/CT /CC N STA	
	ST/SS	E 466071.410 N 640881.795 STA 0+203.108			E ST/SS N STA	
139°52'57.45"	AZIMUTH	150°46'39.71"	154°34'30.65"	149°32'04.77"	AZIMUTH	



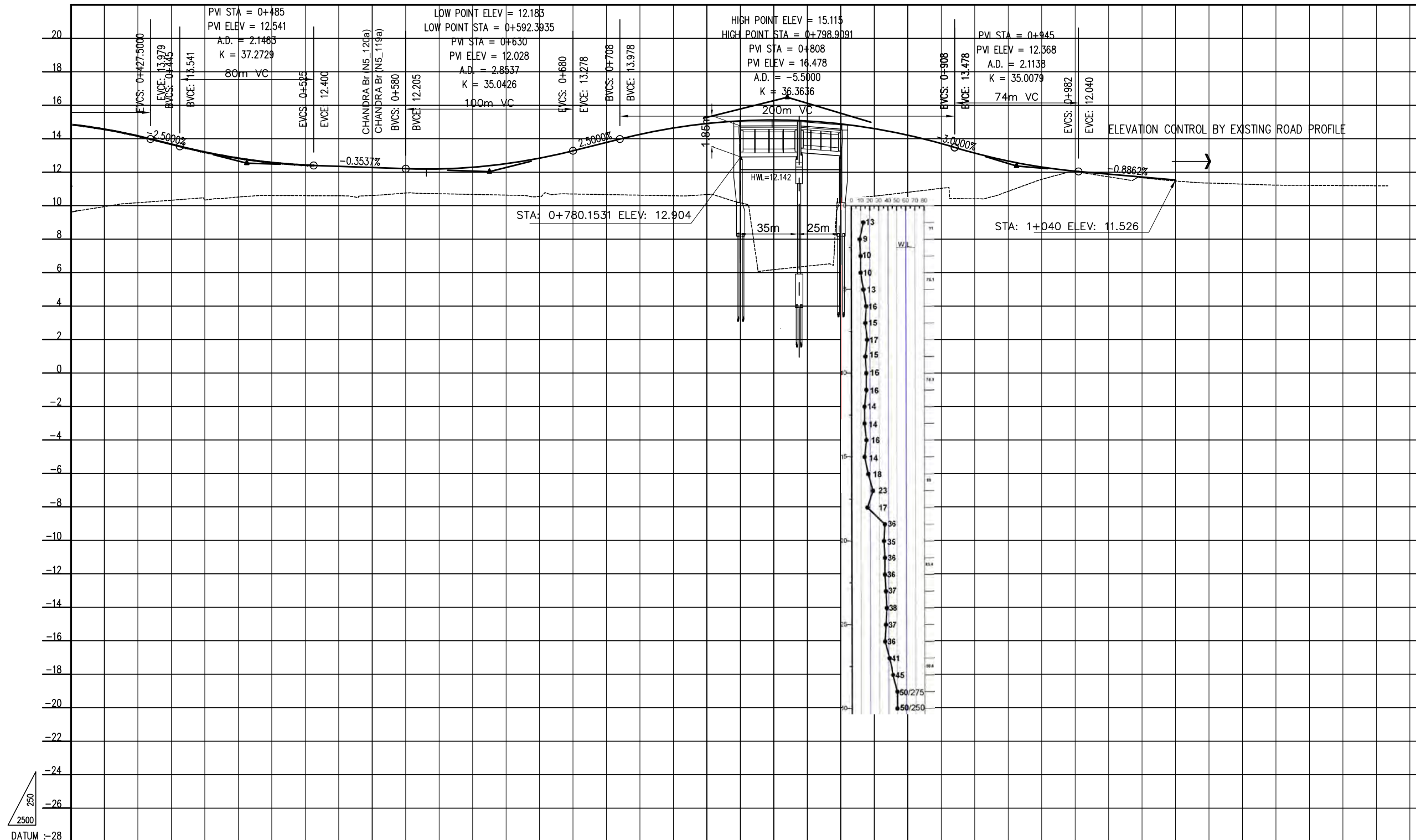




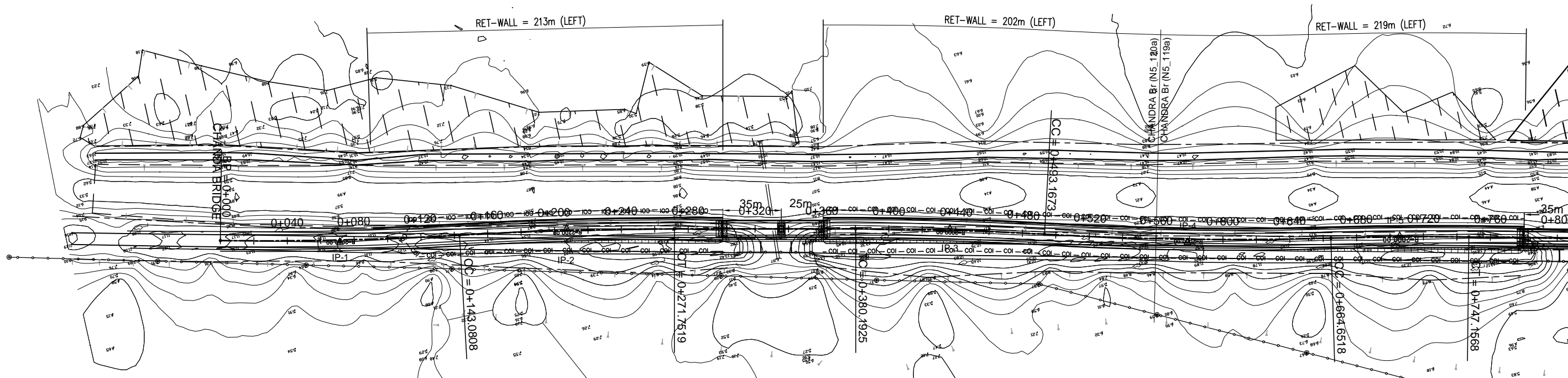
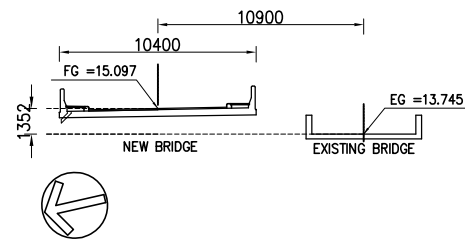
IP-3	IP-4	IP-5	IP-6	IP-7	EP	
80	80	80	80	80	V (Kph)	X 459971.5005
3*14'11.37"	4*54'45.61"	2*21'48.93"	5*12'53.82"	2*58'42.07"	TYPE	Y 658716.1115
2000.0000	2000.0000	2000.0000	2000.0000	2700.0000	△	STA 1+166.9037
					R (m)	
					A	
56.5024	85.7948	41.2583	91.0809	70.1916	TS / TC (m)	
112.9748	171.4845	82.5050	182.0361	140.3516	LC (m)	
					LS (m)	
112.9748	171.4845	82.5050	182.0361	140.3516	L (m)	
					e max (%)	
460158.6729	460119.5490	460095.2058	460041.9360	459990.4310	E	PI
659421.4776	659284.6645	659159.9652	658936.5290	658783.7021	N	
					E	TS/SS
					N	
					STA	
460171.1161	460143.1378	460103.1108	460063.0588	460012.8478	E	SC/TC /CC
659476.5929	659367.1528	659200.4591	659025.1268	658850.2179	N	
0+380.1925	0+493.1673	0+664.6518	0+844.5160	1+026.5521	STA	
659367.1528	659200.4591	659119.8317	658850.2179	658716.1115	E	CS/CT /CC
460143.1378	460103.1108	460085.6375	460012.8478	459971.5005	N	
0+493.1673	0+664.6518	0+747.1568	1+026.5521	1+166.9037	STA	
					E	ST/SS
					N	
					STA	
195°57'31.43"	191°02'45.82"	193°24'34.75"	198°37'28.57"	195°38'46.50"	AZIMUTH	



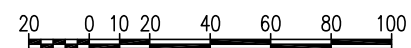
<b>MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)</b> PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT (RHD)	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b>  <b>ORIENTAL CONSULTANTS GLOBAL CO., LTD.</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	No	REVISION	DATE	<b>PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT</b>		DESIGNED BY:
					PLAN OF CHANDA BRIDGE (N5_119a) RANK : 93, SN : 3, ZONE : RAJSHAHI, BRIDGE TYPE : PCG		CHECKED BY:
							APPROVED BY:
							DWG. NO. BR 093-1

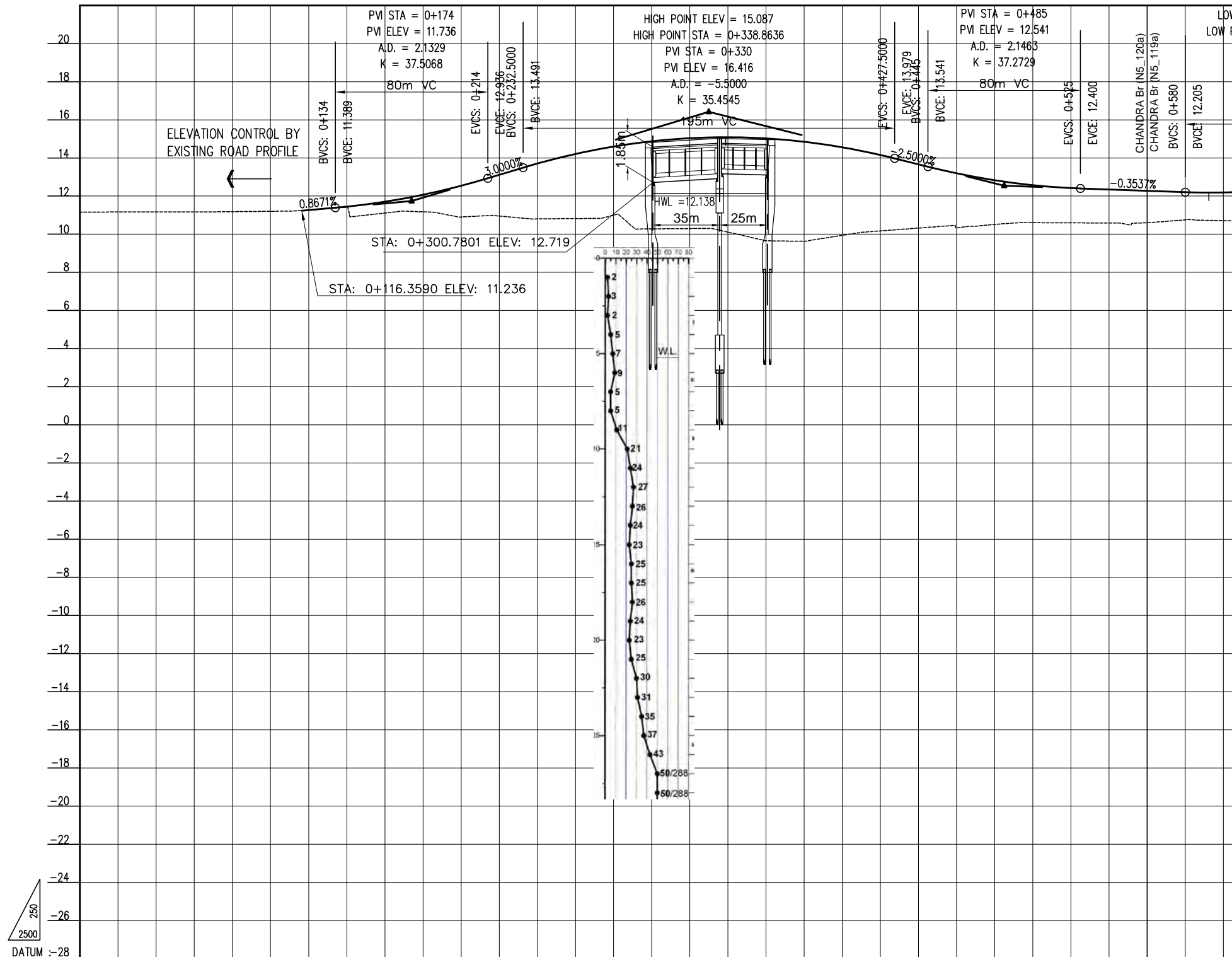


STATION	0+400	0+440	0+480	0+520	0+560	0+600	0+640	0+680	0+720	0+760	0+800	0+840	0+880	0+920	0+960	1+000	1+040	1+080	1+120	1+160																				
FINISHED ROAD LEVEL	14.559	14.158	13.666	13.196	12.830	12.572	12.421	12.347	12.276	12.205	12.191	12.292	12.507	12.835	13.278	13.778	14.258	14.637	14.906	15.065	15.114	15.053	14.882	14.601	14.210	13.709	13.139	12.664	12.304	12.059	11.881	11.704	11.47	11.35	11.29	11.22	11.21	11.20	11.19	11.18
EXISTING GROUND LEVEL	9.94	10.17	10.32	10.33	10.51	10.60	10.60	10.59	10.60	10.75	10.71	10.67	10.63	10.54	10.70	10.66	10.62	10.59	10.67	10.17	6.18	6.39	10.23	10.57	10.80	11.03	10.41	10.85	11.57	12.03	11.72	11.67	11.47	11.35	11.29	11.22	11.21	11.20	11.19	11.18



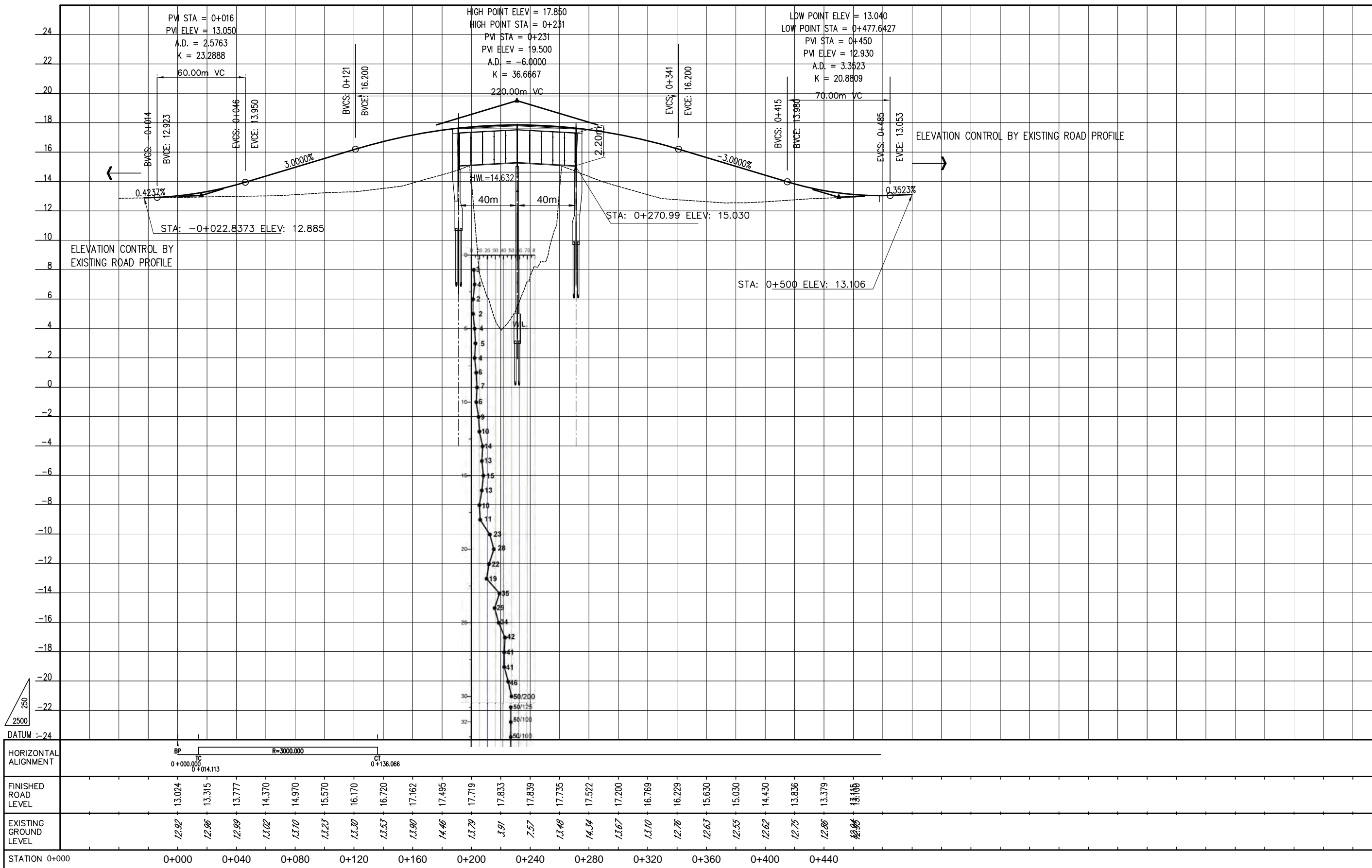
BP		IP-1	IP-2	IP-3	IP-4	IP-5
X	460247.9740	V (Kph)	80	80	80	80
Y	659848.8580	TYPE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE
STA	0+000	$\Delta$	4°05'56.26"	3°21'03.78"	3°14'11.37"	4°54'45.61"
		R (m)	2000.0000	2200.0000	2000.0000	2000.0000
		A				
		TS / TC (m)	71.5709	64.3539	56.5024	85.7948
		LC (m)	143.0808	128.6711	112.9748	171.4845
		LS (m)				
		L (m)	143.0808	128.6711	112.9748	82.5050
		e max (%)				
		PI				
		E	460231.3024	460209.1697	460158.6729	460119.5490
		N	659779.2559	659645.1451	659421.4776	659284.6645
		TS/SS				
		E				
		N				
		STA				
		SC/TC /CC				
		E	460247.9740	460219.6485	460171.1161	460143.1378
		N	659848.8580	659708.6402	659476.5929	659367.1528
		STA	0+000	0+143.0808	0+380.1925	0+493.1673
		CS/CT /CC				
		E	659708.6402	659582.3712	659367.1528	659200.4591
		N	460219.6485	460194.9974	460143.1378	460103.1108
		STA	0+143.0808	0+271.7519	0+493.1673	0+664.6518
		ST/SS				
		E				
		N				
		STA				
		AZIMUTH	189°22'16.28"	192°43'20.06"	195°57'31.43"	191°02'45.82"
						193°24'34.75"

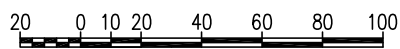
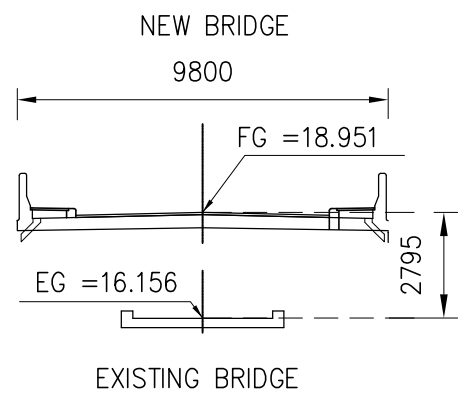
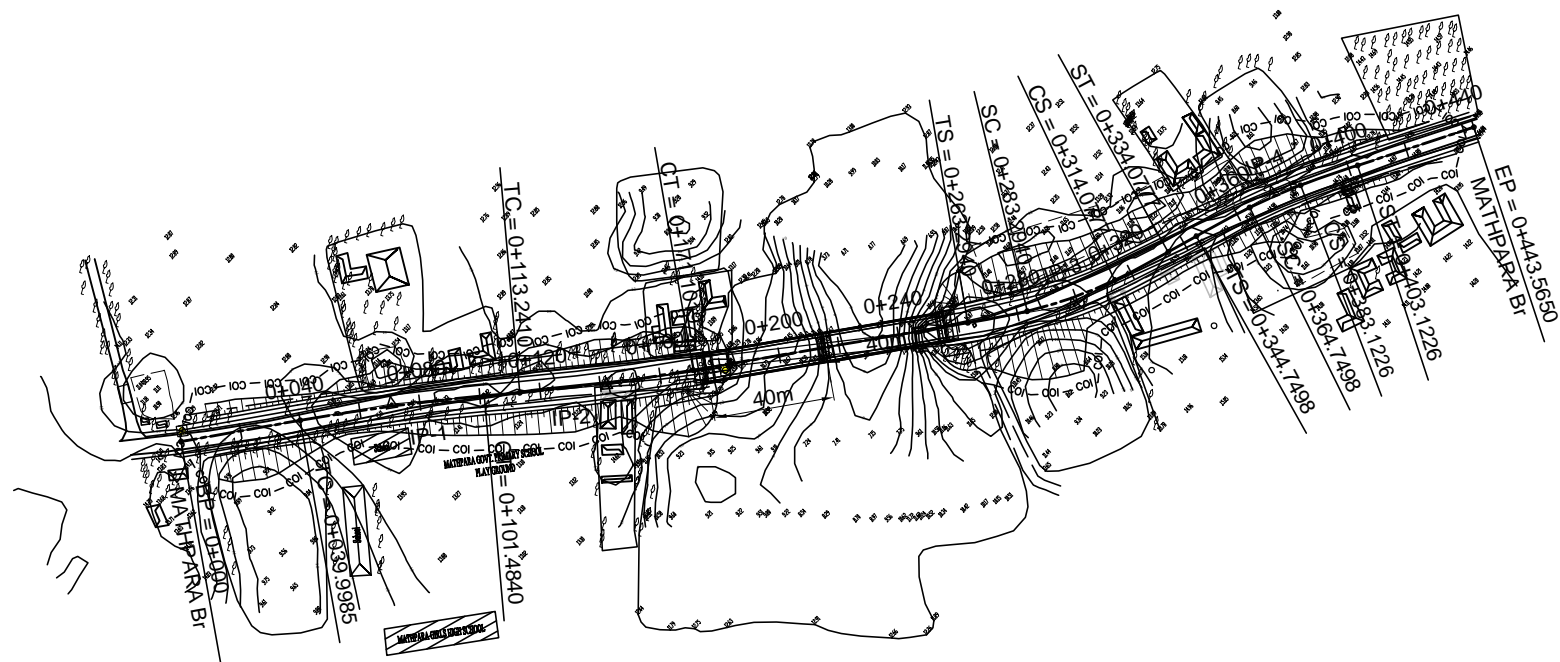




HORIZONTAL ALIGNMENT	0+000.000	R=2000.000	0+143.081	R=2200.000	0+271.752	0+380.193	R=2000.000	0+493.167	R=2000.000	0+600.000																					
FINISHED ROAD LEVEL			11.268	11.446	11.705	12.070	12.542	13.116	13.708	14.209	14.598	14.874	15.036	15.086	15.024	14.848	14.559	14.158	13.666	13.196	12.830	12.572	12.421	12.347	12.276	12.205	12.191				
EXISTING GROUND LEVEL	11.16	11.17	11.17	11.17	11.18	11.20	11.26	11.42	11.11	11.17	10.90	10.95	10.81	10.82	11.00	10.28	10.30	10.11	9.65	9.63	9.94	10.17	10.32	10.33	10.51	10.60	10.60	10.59	10.60	10.75	10.71
STATION	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+320	0+360	0+400	0+440	0+480	0+520	0+560	0+600															

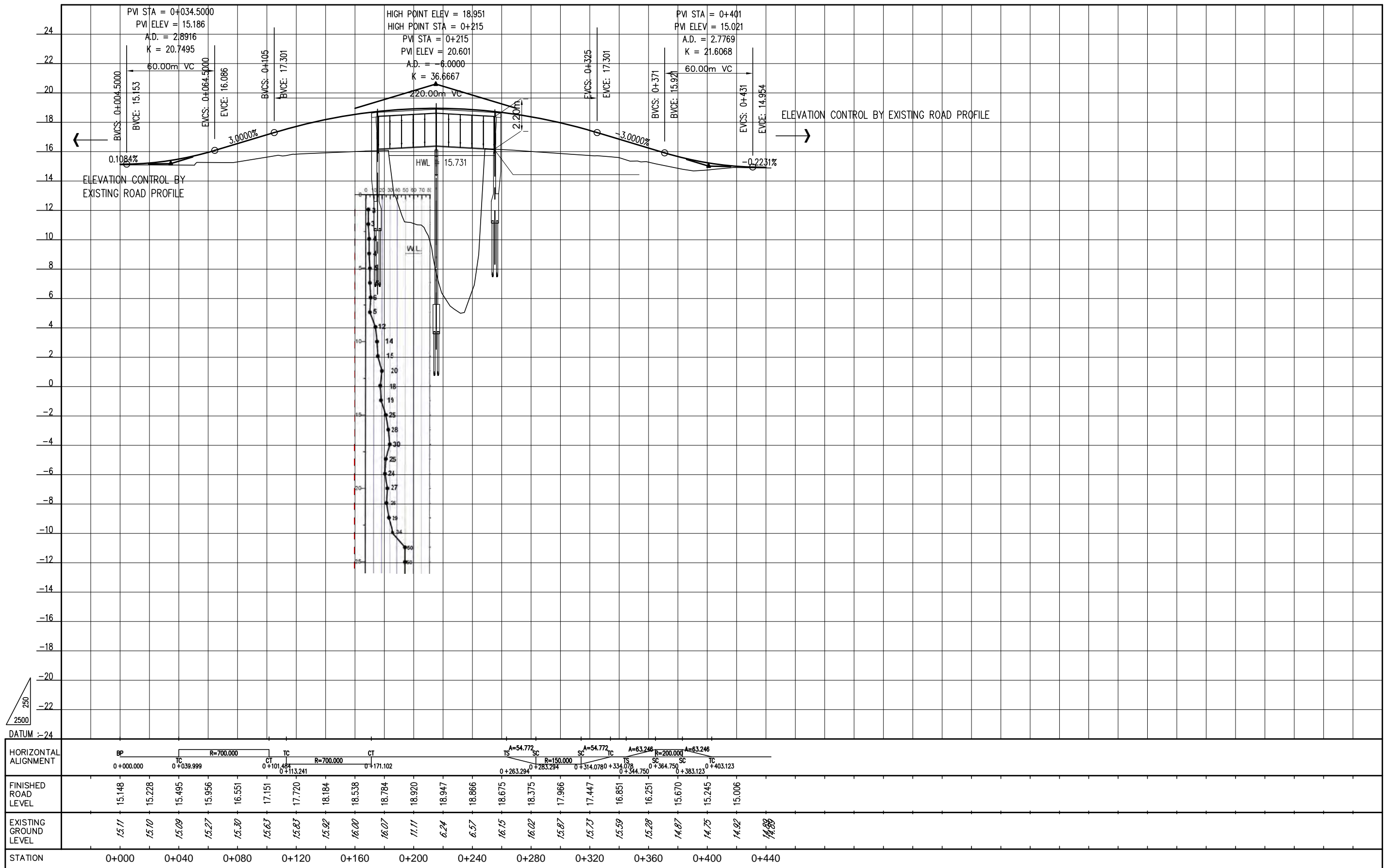


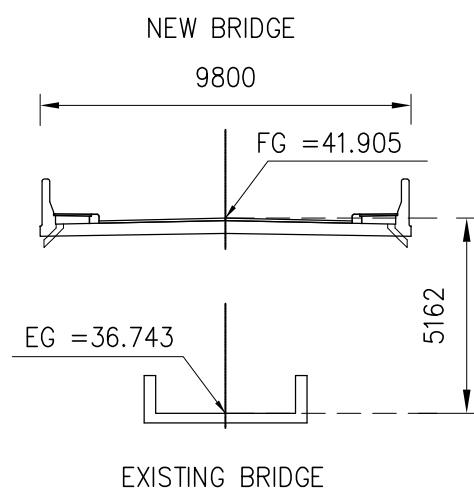
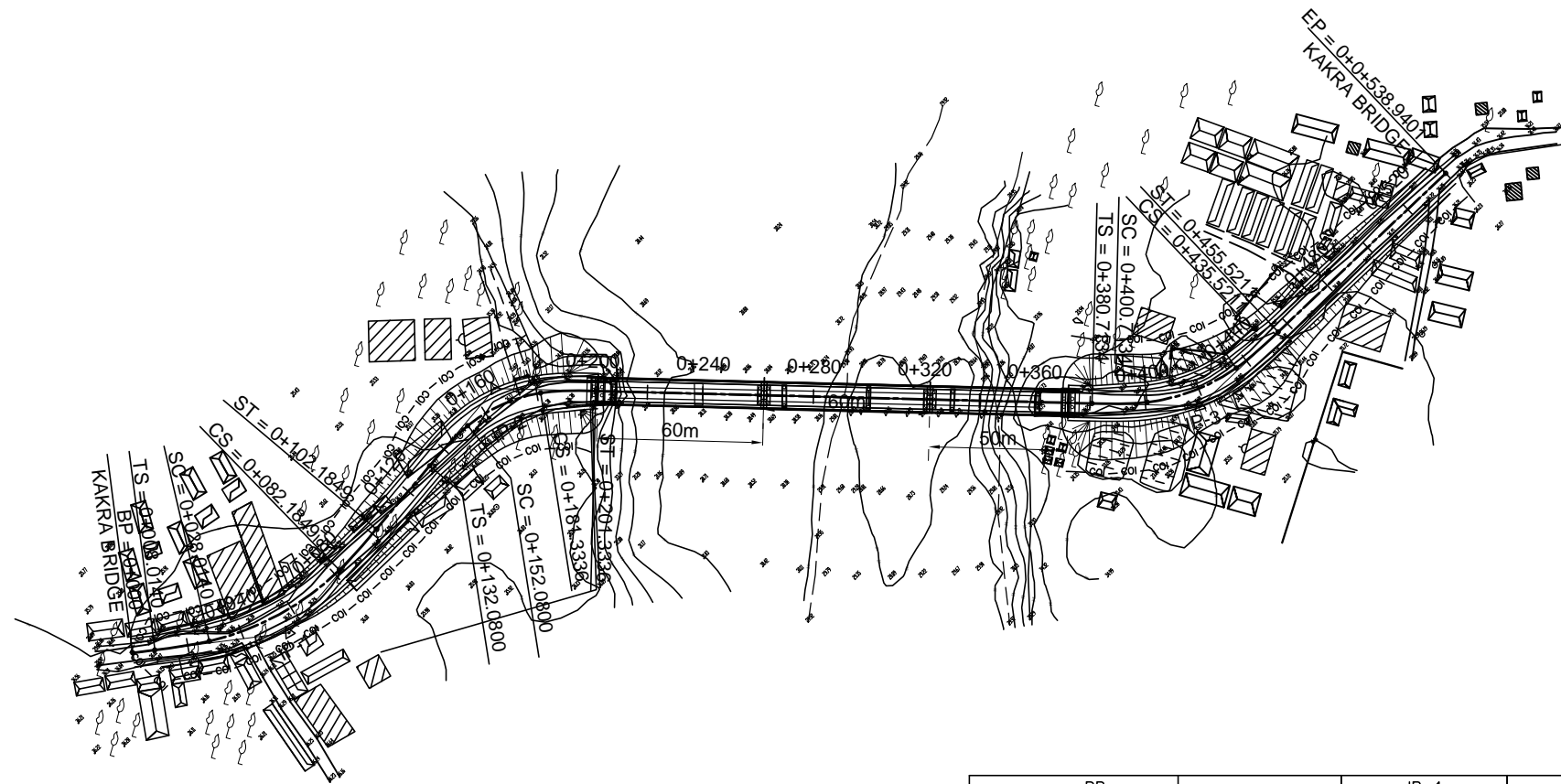




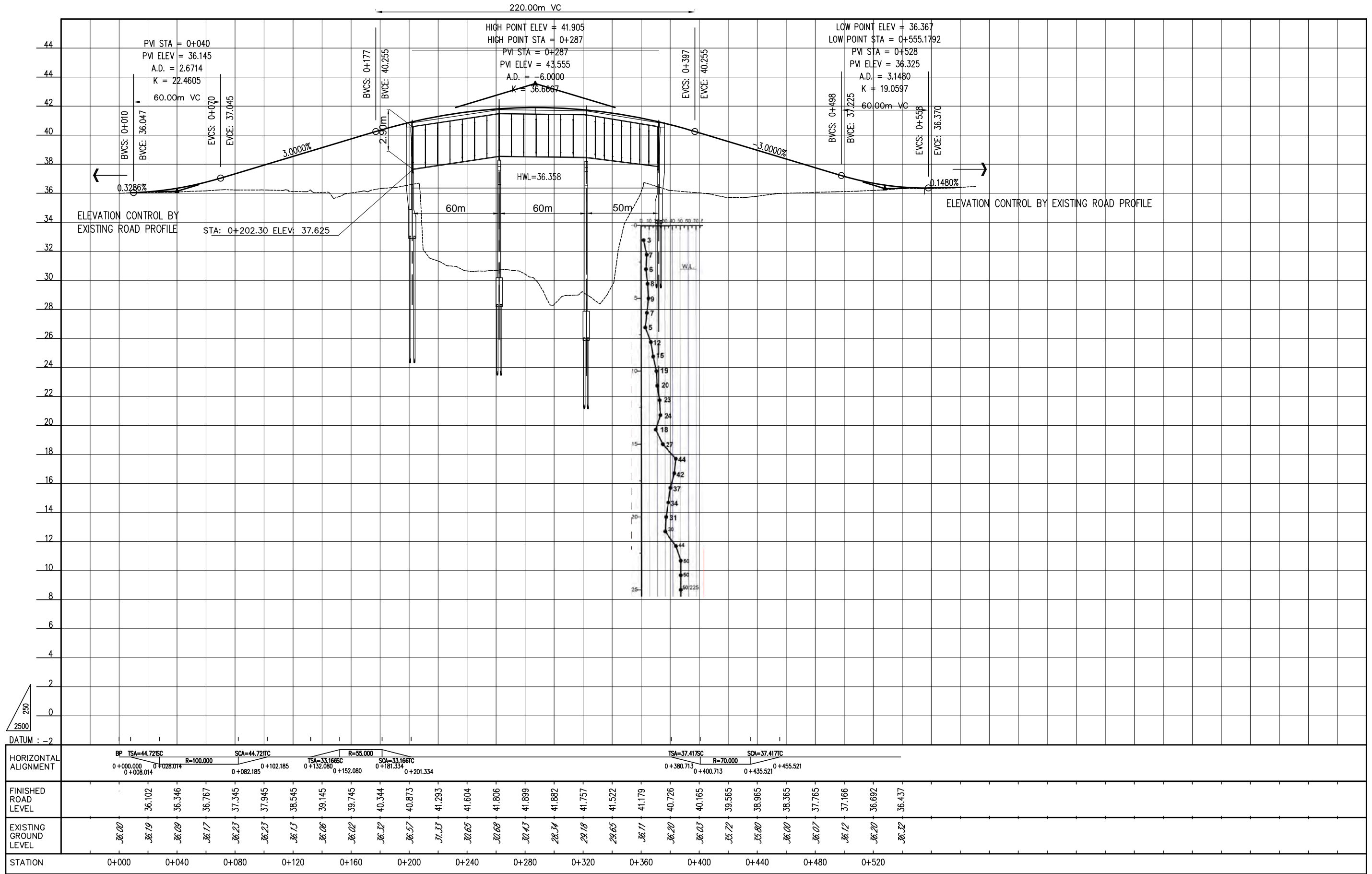
BP		IP-1				IP-2				IP-3				IP-4				EP	
X	451107.6374	v (Kph)	50	50	50	50	v (Kph)	X	451491.2113									Y	728657.5919
Y	728441.9812	TYPE	FULL CIRCLE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	TYPE	Y	728657.5919									STA	0+443.5650
STA	0+000	$\Delta$	5'01'57.57"	4'44'09.53"	19'23'52.55"	10'59'34.78"	$\Delta$	STA	0+443.5650										
		R (m)	700.0000	700.0000	150.0000	200.0000	R (m)												
		A			54.7723	54.7723	A												
		TS / TC (m)	30.7625	28.9469	35.6547	35.6547	TS / TC (m)												
		LC (m)	61.4855	57.8609	30.7837	18.3728	LC (m)												
		LS (m)			20.0000	20.0000	LS (m)												
		L (m)	61.4855	57.8609	70.7840	58.3730	L (m)												
		e max (%)					e max (%)												
		PI	E	451171.3664	451238.2072	451379.7701	451433.3420	E	PI										
			N	728472.7341	728498.0277	728565.4386	728618.7518	N											
		TS/SS	E			451347.5789	451412.6073	E	TS/SS										
			N			728550.1094	728598.1172	N											
			STA			0+263.2940	0+344.7498	STA											
		SC/TC /CC	E	451143.6610	451211.1339	451365.4370	451427.0151	E	SC/TC /CC										
			N	728459.3646	728487.7827	728559.1054	728611.9853	N											
			STA	0+039.9985	0+113.2410	0+283.2940	0+364.7498	STA											
		CS/CT /CC	E	728483.6217	728510.4729	451390.5593	451441.2146	E	CS/CT /CC										
			N	451200.1379	451264.3423	728576.8025	728623.6342	N											
			STA	0+101.4840	0+171.1019	0+314.0777	0+383.1226	STA											
		ST/SS	E			451405.0427	451457.6311	E	ST/SS										
			N			728590.5891	728635.0539	N											
			STA			0+334.0777	0+403.1226	STA											
		64°14'23.87"	AZIMUTH	69°16'21.44"	64°32'11.91"	45°08'19.36"	56°07'54.14"	AZIMUTH											

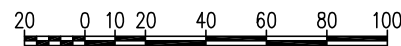
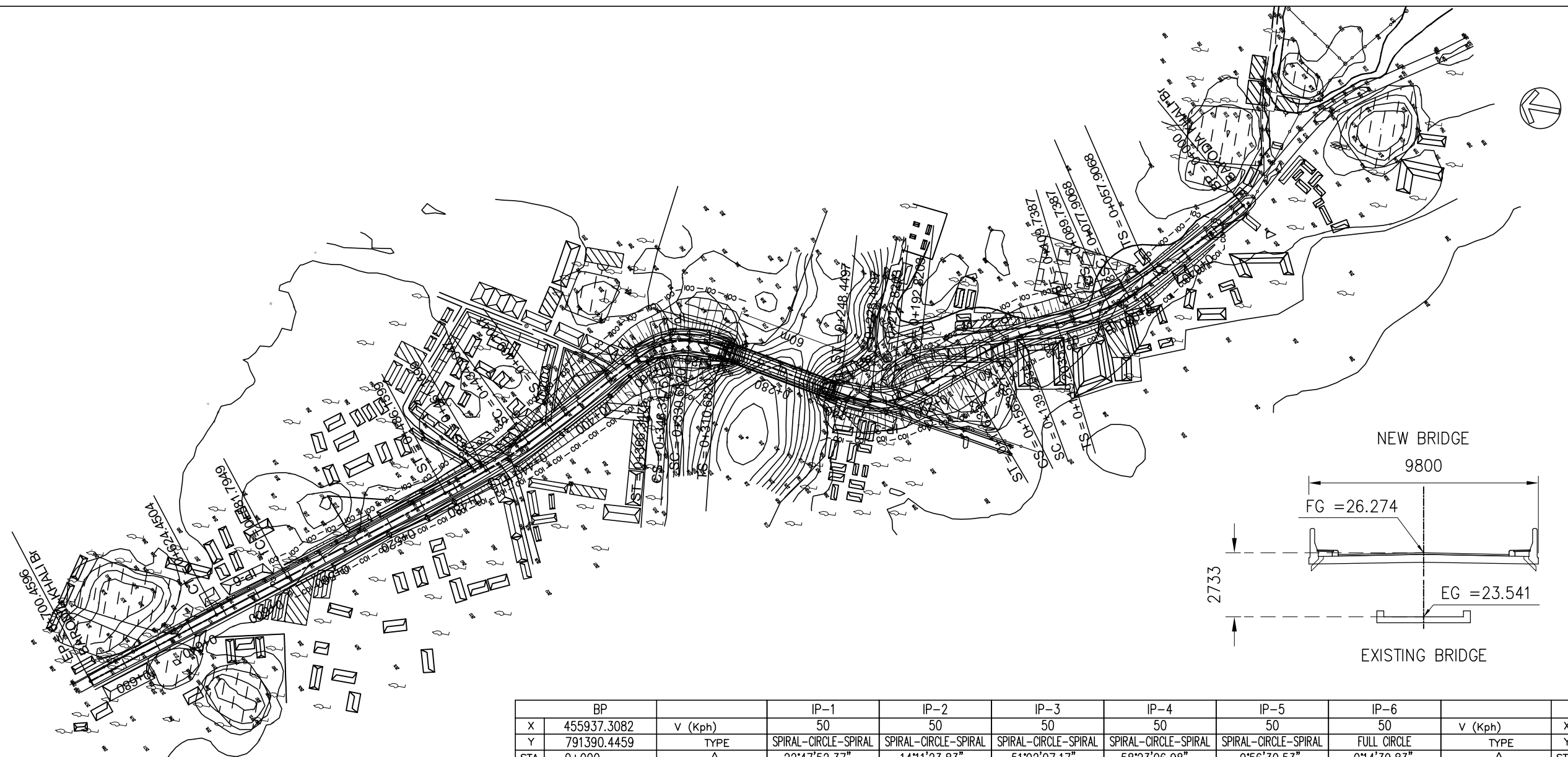




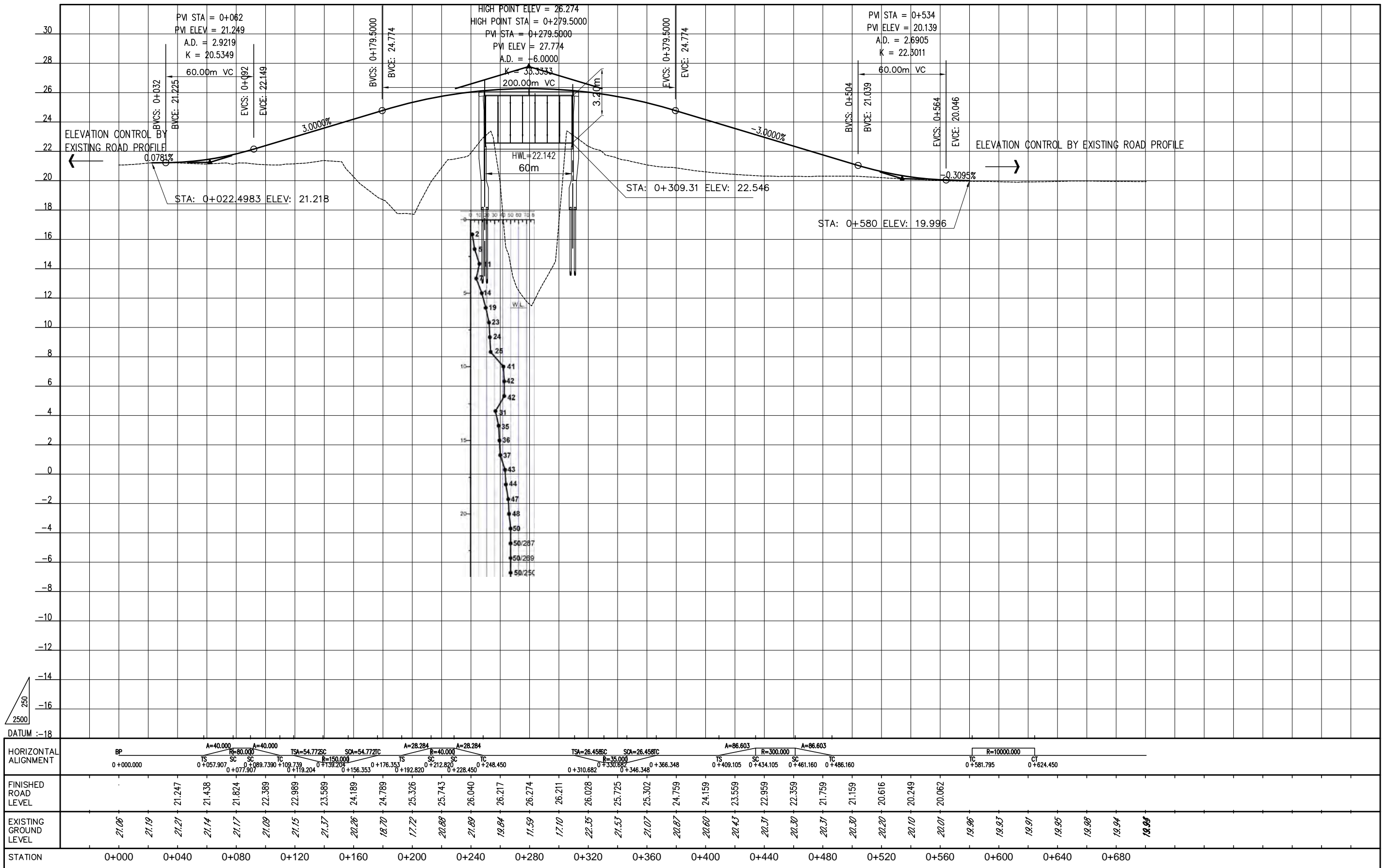


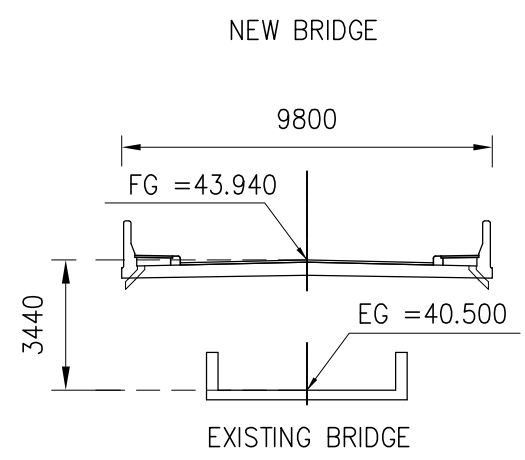
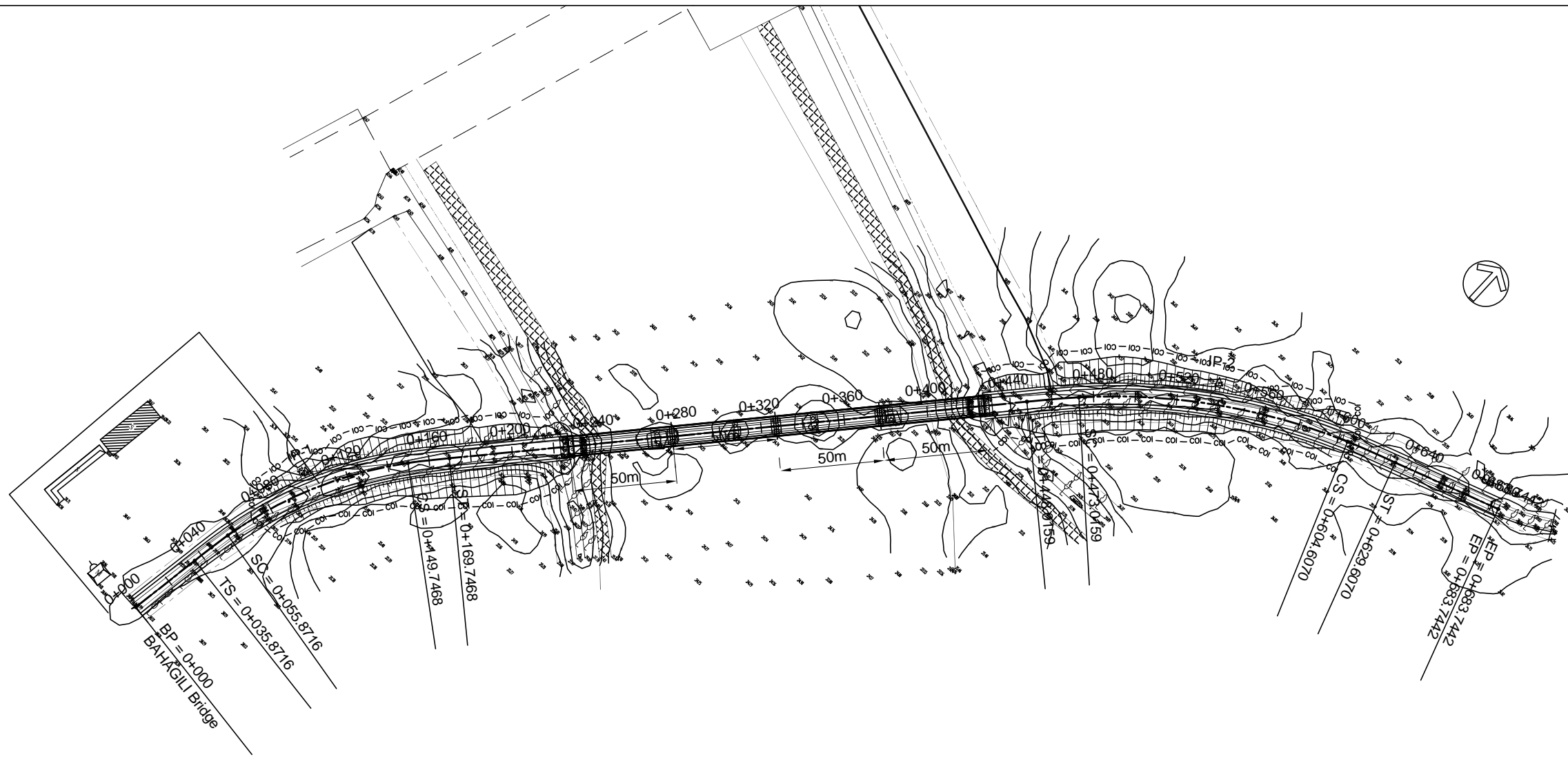
BP		IP-1			IP-2		IP-3		EP		
X	375644.3464	v (Kph)		50	40	40	v (Kph)		X	376054.4192	
Y	837297.3130	TYPE		SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	TYPE		Y	837592.4602	
STA	0+000	△		42°29'48.46"	51°18'34.12"	44°51'38.41"	△		STA	0+538.9401	
		R (m)		100.0000	55.0000	70.0000	R (m)				
		A		44.7214	44.7214	33.1662	33.1662	37.4166	37.4166	A	
		TS / TC (m)		48.9461	48.9461	36.5506	36.5506	38.9867	38.9867	TS / TC (m)	
		LC (m)		54.1709	29.2536	34.8076	LC (m)				
		LS (m)		20.0000	20.0000	20.0000	20.0000	20.0000	20.0000	LS (m)	
		L (m)		94.1710	69.2540	74.8080	L (m)				
		e max (%)					e max (%)				
		PI		E	375696.7546	375744.5005	375991.5757	E	PI		
				N	837319.6251	837424.6756	837487.4180	N			
		TS/SS		E	375651.7200	375729.3769	375953.7883	E	TS/SS		
				N	837300.4521	837391.4006	837477.8222	N			
				STA	0+008.0140	0+132.0800	0+380.7134	STA			
		SC/TC /CC		E	375669.8424	375738.7259	375972.8995	E	SC/TC /CC		
				N	837308.8916	837409.0478	837483.6565	N			
				STA	0+028.0140	0+152.0800	0+400.7134	STA			
		CS/CT /CC		E	375708.1335	375760.9036	376000.5283	E	CS/CT /CC		
				N	837346.2709	837427.5933	837504.2346	N			
				STA	0+082.1849	0+181.3336	0+435.5211	STA			
		ST/SS		E	375717.0071	375779.9267	376011.5916	E	ST/SS		
				N	837364.1846	837433.6717	837520.8743	N			
				STA	0+102.1849	0+201.3336	0+455.5211	STA			
		66°56'19.58"		AZIMUTH		24°26'31.12"	75°45'05.24"	30°53'26.83"	AZIMUTH		





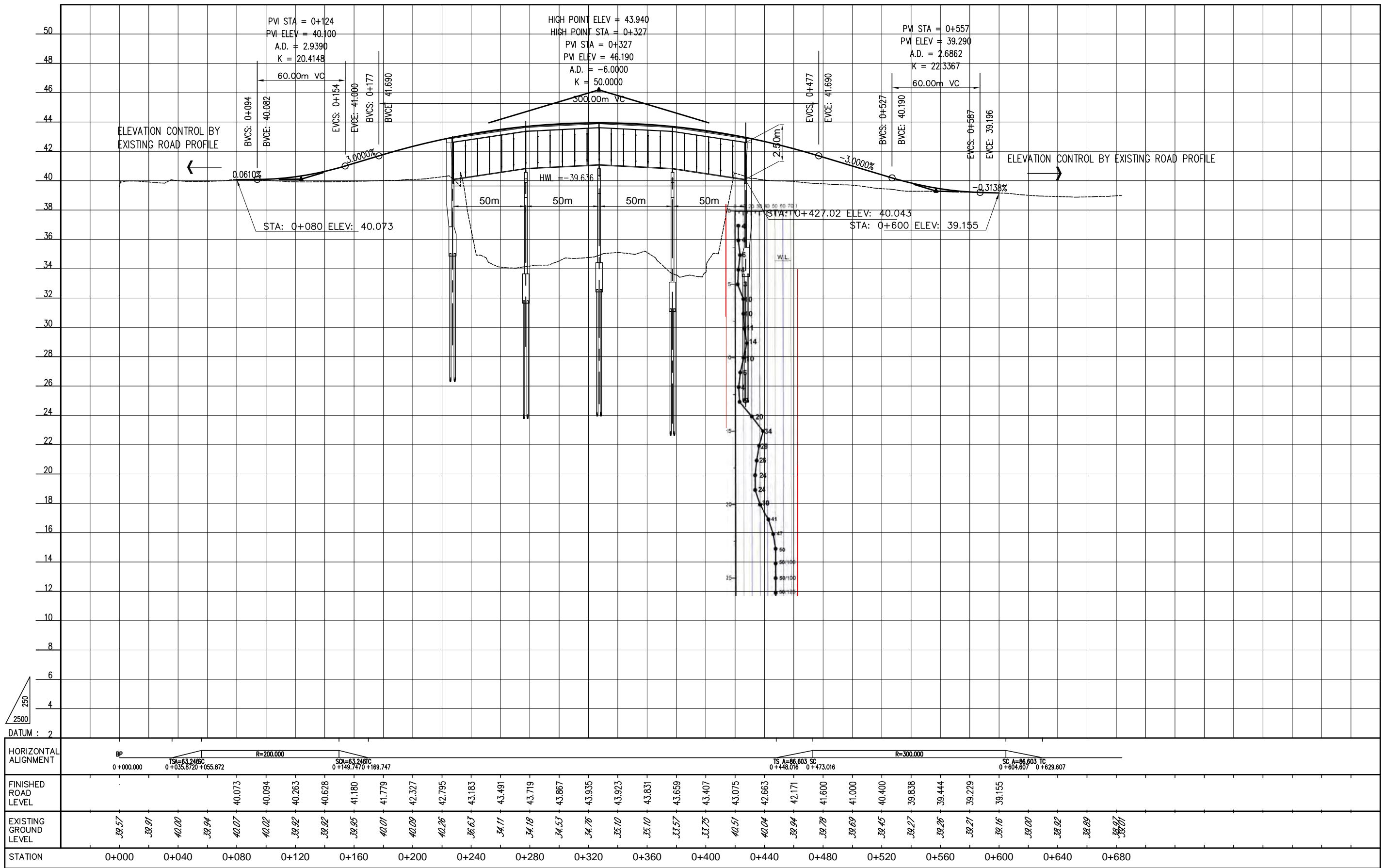
BP		IP-1	IP-2	IP-3	IP-4	IP-5	IP-6	EP						
X	455937.3082	50		50		50		50		X	45582.0757			
Y	791390.4459	TYPE		TYPE		TYPE		TYPE		Y	791953.6372			
STA	0+000	Δ		Δ		Δ		Δ		STA	0+700.4596			
	R (m)	80.0000		150.0000		40.0000		35.0000		300.0000		10000.0000		R (m)
	A	40.0000	40.0000	54.7723	54.7723	28.2843	28.2843	26.4575	26.4575	86.6025	86.6025	21.3278		A
	TS / TC (m)	26.1661	26.1661	28.6825	28.6825	29.2718	29.2718	29.7931	29.7931	38.5999	38.5999	42.6555		TS / TC (m)
	LC (m)	11.8318		17.1492		15.6294		15.6655		27.0552		42.6555		LC (m)
	LS (m)	20.0000	20.0000	20.0000	20.0000	20.0000	20.0000	20.0000	20.0000	25.0000	25.0000	42.6555		LS (m)
	L (m)	51.8320		57.1490		55.6290		55.6660		77.0550		42.6555		L (m)
	e max (%)													e max (%)
	PI	E	455873.7969	455845.3365	455797.0477	455819.3192	455736.9720	455641.4908	E	PI				
		N	791445.5328	791503.2061	791559.8348	791679.0698	791753.7243	791876.5376	N					
	TS/SS	E	455893.5635	455858.0293	455816.0408	455813.8489	455765.5693	E	TS/SS					
		N	791428.3881	791477.4850	791537.5614	791649.7832	791727.7985	N						
	STA	0+057.9068	0+119.2035	0+192.8203	0+310.6820	0+409.1047	STA							
	SC/TC /CC	E	455879.0239	455848.7842	455804.4072	455815.6298	455747.2841	455654.5814	E	SC/TC /CC				
		N	791442.1010	791495.2155	791553.7615	791669.6310	791744.8442	791859.6998	N					
	STA	0+077.9068	0+139.2035	0+212.8203	0+330.6820	0+434.1047	0+581.7949	STA						
	CS/CT /CC	E	455871.8009	455839.3590	455800.4040	455810.6715	455728.8961	791893.4312	E	CS/CT /CC				
		N	791451.4586	791509.5312	791568.7668	791684.3536	791764.6777	455628.4722	N					
	STA	0+089.7387	0+156.3527	0+228.4497	0+346.3475	0+461.1599	0+624.4504	STA						
	ST/SS	E	455862.2177	455826.7258	455802.4223	455797.2466	455713.2802	E	ST/SS					
		N	791468.9973	791525.0310	791588.6089	791699.0804	791784.1981	N						
	STA	0+109.7387	0+176.3527	0+248.4497	0+366.3475	0+486.1599	STA							
	310°56'12.95"	AZIMUTH	333°44'05.32"	319°32'41.48"	10°34'48.65"	312°11'41.67"	322°08'12.20"	322°22'52.03"	AZIMUTH					

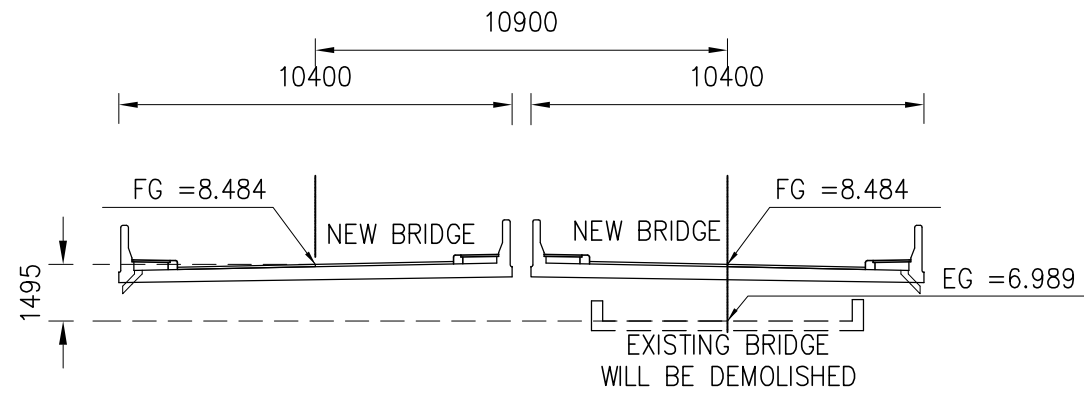
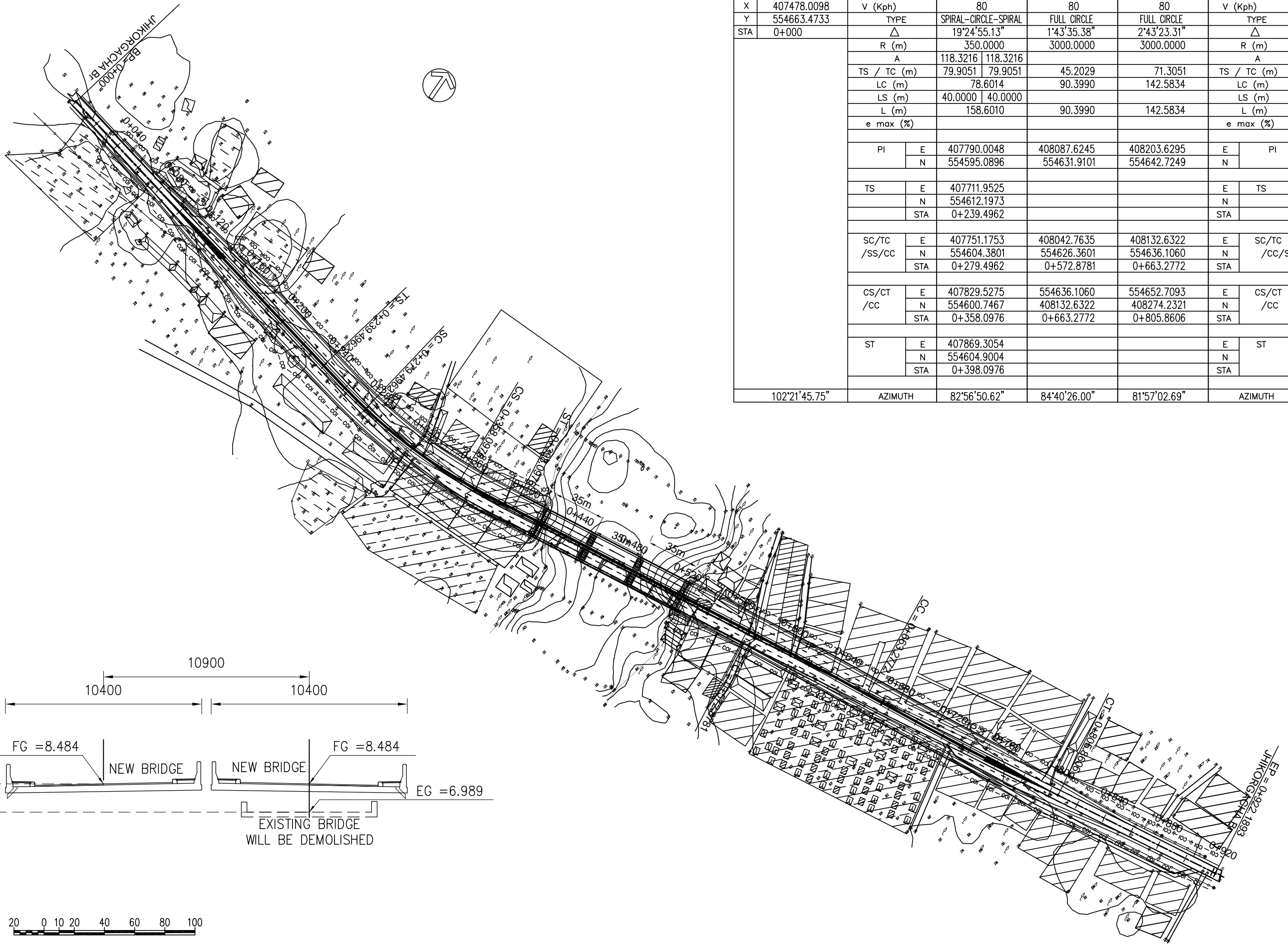




BP		IP-1	IP-2	EP			
X	401924.9704	V (Kph)	50	50	V (Kph)	X	402374.2264
Y	858743.1379	TYPE	SPIRAL-CIRCLE-SPIRAL	SPIRAL-CIRCLE-SPIRAL	TYPE	Y	859219.6063
STA	0+000	$\Delta$	32°37'22.22"	29°54'24.08"	$\Delta$	STA	0+683.7442
		R (m)	200.0000	300.0000	R (m)		
		A	63.2456	63.2456	86.6025	86.6025	A
		TS / TC (m)	68.5509	68.5509	92.6454	92.6454	TS / TC (m)
		LC (m)	93.8752	131.5911	LC (m)		
		LS (m)	20.0000	20.0000	25.0000	25.0000	LS (m)
		L (m)	133.8750	181.5910	L (m)		
		e max (%)			e max (%)		
		PI	E	401941.6936	402234.8310	E	PI
			N	858846.2126	859173.6273	N	
		TS/SS	E	401930.7152	402173.0335	E	TS/SS
			N	858778.5465	859104.6037	N	
		STA		0+035.8716	0+448.0159	STA	
		SC/TC /CC	E	401934.2464	402189.9651	E	SC/TC /CC
			N	858798.2300	859122.9946	N	
		STA		0+055.8716	0+473.0159	STA	
		CS/CT /CC	E	401974.3302	402299.1848	E	CS/CT /CC
			N	858882.1659	859194.4886	N	
		STA		0+149.7468	0+604.6070	STA	
		ST/SS	E	401987.4192	402322.8138	E	ST/SS
			N	858897.2851	859202.6481	N	
		STA		0+169.7468	0+629.6070	STA	
		AZIMUTH	9°12'55.95"	41°50'18.17"	71°44'42.25"	AZIMUTH	

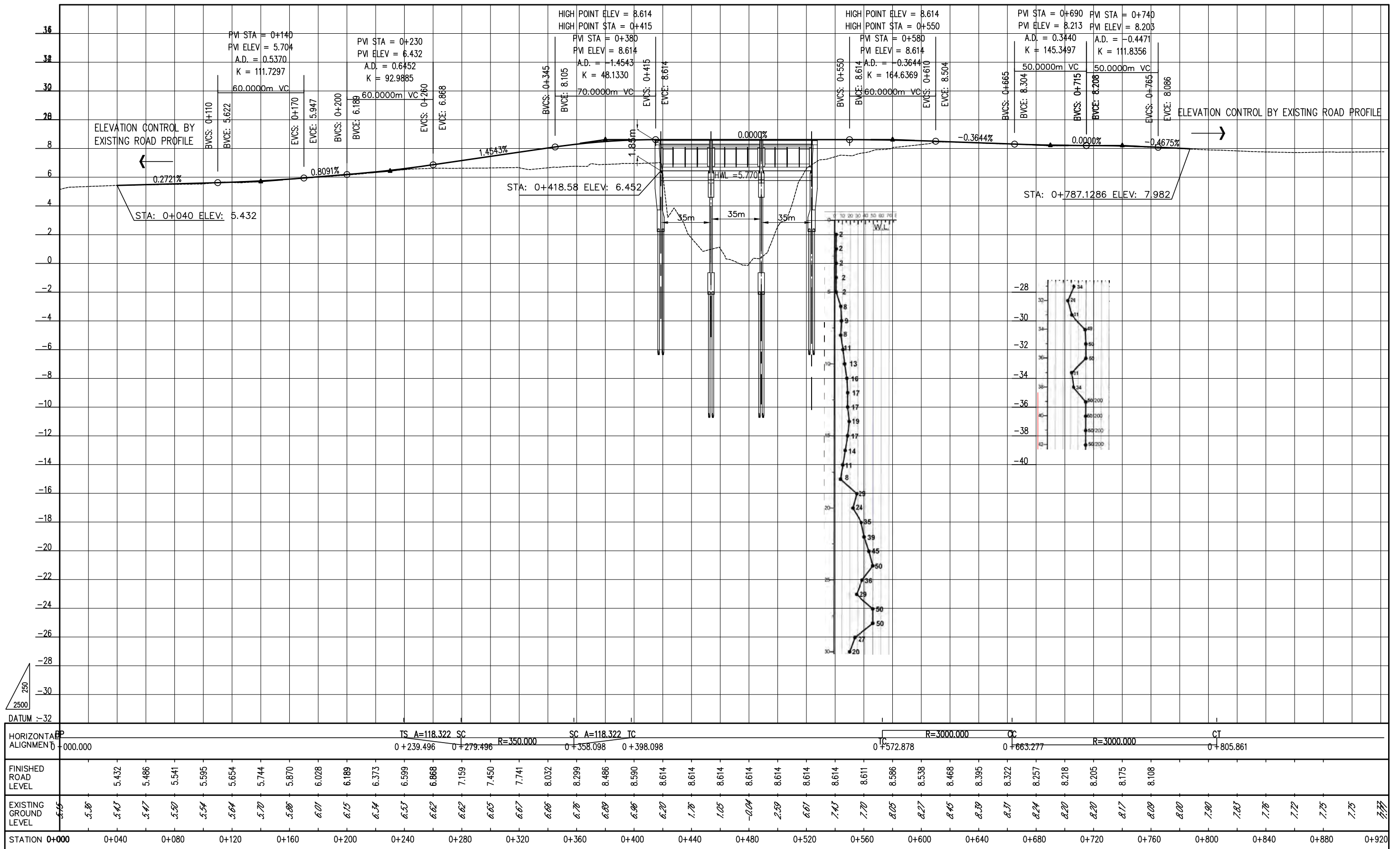
<b>MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)</b> PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT (RHD)	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>ORIENTAL CONSULTANTS GLOBAL CO., LTD.</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	No. _____ REVISION _____ DATE _____	<b>PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT</b>		DESIGNED BY: _____ CHECKED BY: _____ APPROVED BY: _____
			PLAN OF BAHAGILI BRIDGE (Z5015_22a) RANK : 99, SN : 59, ZONE : RANGPUR, BRIDGE TYPE : STG		DWG. NO. BR 099-1

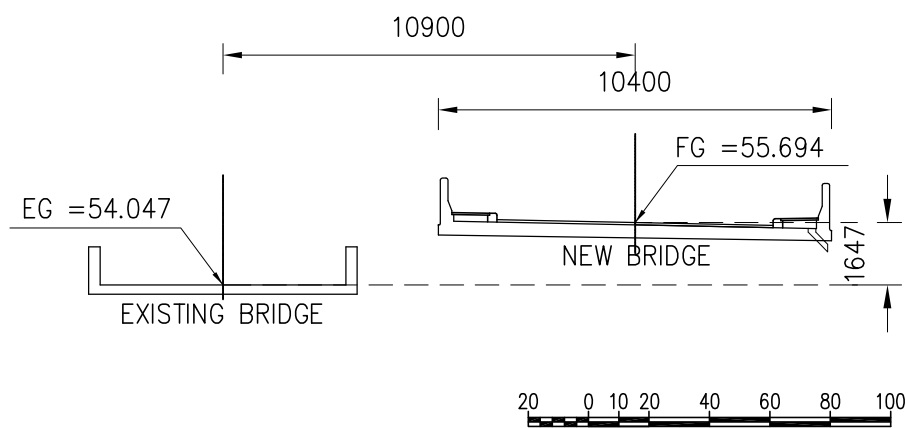
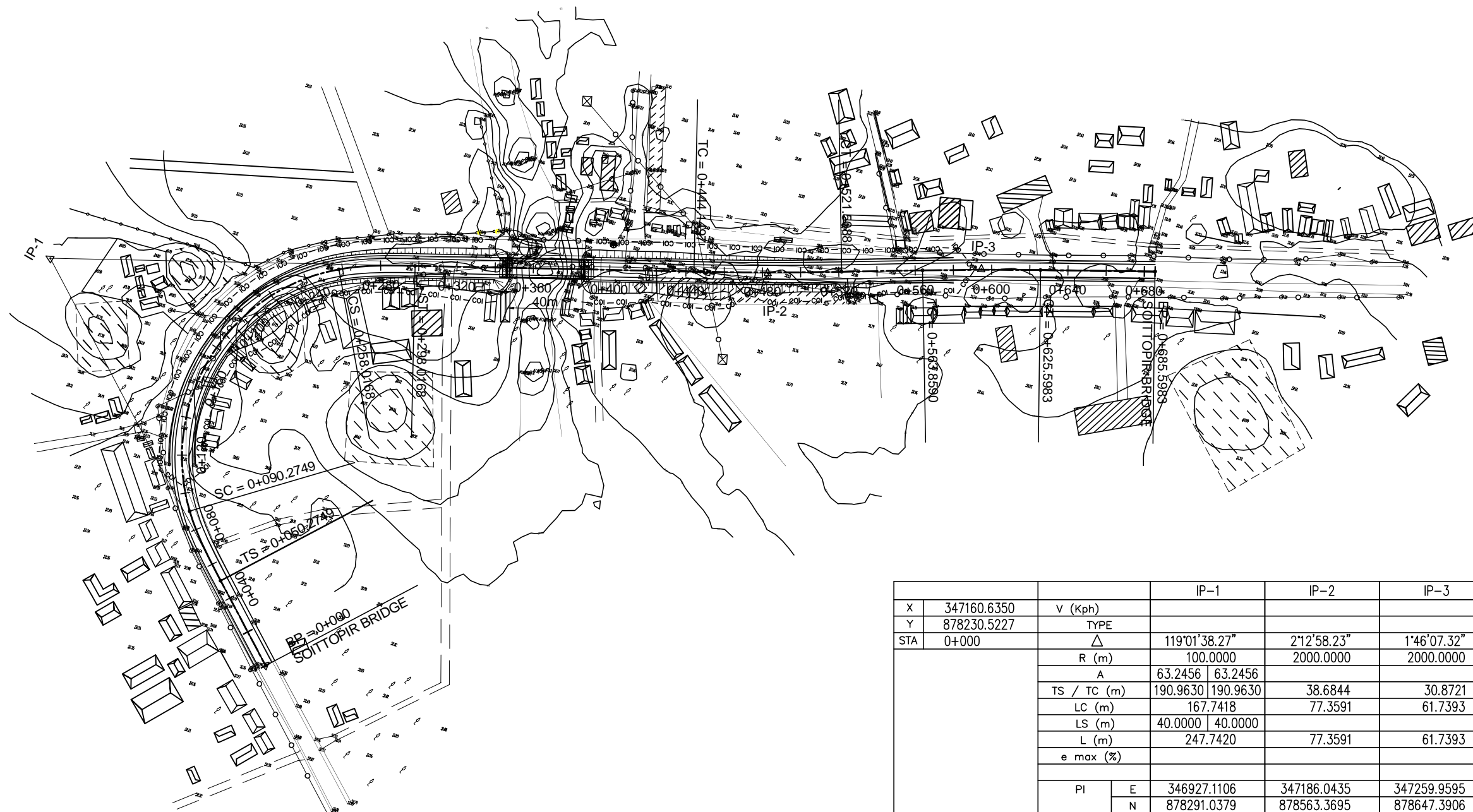




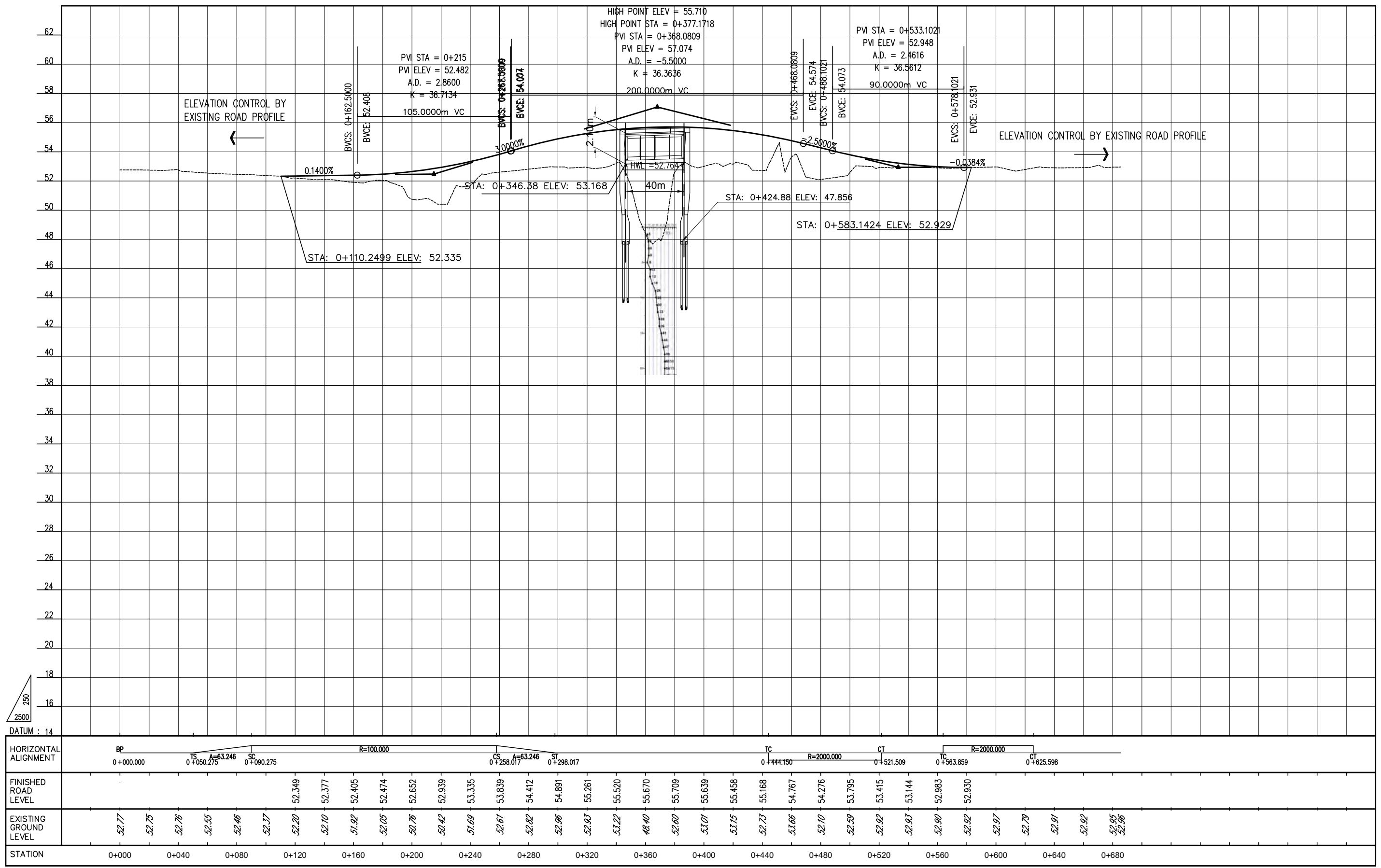
BP		IP-1		IP-2		IP-3		EP	
X	407478.0098	V (Kph)	80	80	80	V (Kph)		X	408389.4148
Y	554663.4733	TYPE	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	FULL CIRCLE	TYPE		Y	554668.9982
STA	0+000	Δ	19°24'55.13"	1°43'35.38"	2°43'23.31"	Δ		STA	0+922.1893
		R (m)	350.0000	3000.0000	3000.0000	R (m)			
		A	118.3216	118.3216		A			
		TS / TC (m)	79.9051	79.9051	45.2029	71.3051	TS / TC (m)		
		LC (m)	78.6014		90.3990	142.5834	LC (m)		
		LS (m)	40.0000	40.0000			LS (m)		
		L (m)	158.6010		90.3990	142.5834	L (m)		
		e max (%)					e max (%)		
		PI	E 407790.0048	408087.6245	408203.6295	E	PI		
			N 554595.0896	554631.9101	554642.7249	N			
		TS	E 407711.9525			E	TS		
			N 554612.1973			N			
			STA 0+239.4962			STA			
		SC/TC /SS/CC	E 407751.1753	408042.7635	408132.6322	E	SC/TC /CC/SS		
			N 554604.3801	554626.3601	554636.1060	N			
			STA 0+279.4962	0+572.8781	0+663.2772	STA			
		CS/CT /CC	E 407829.5275	554636.1060	554652.7093	E	CS/CT /CC		
			N 554600.7467	408132.6322	408274.2321	N			
			STA 0+358.0976	0+663.2772	0+805.8606	STA			
		ST	E 407869.3054			E	ST		
			N 554604.9004			N			
			STA 0+398.0976			STA			
	102°21'45.75"	AZIMUTH	82°56'50.62"	84°40'26.00"	81°57'02.69"	AZIMUTH			



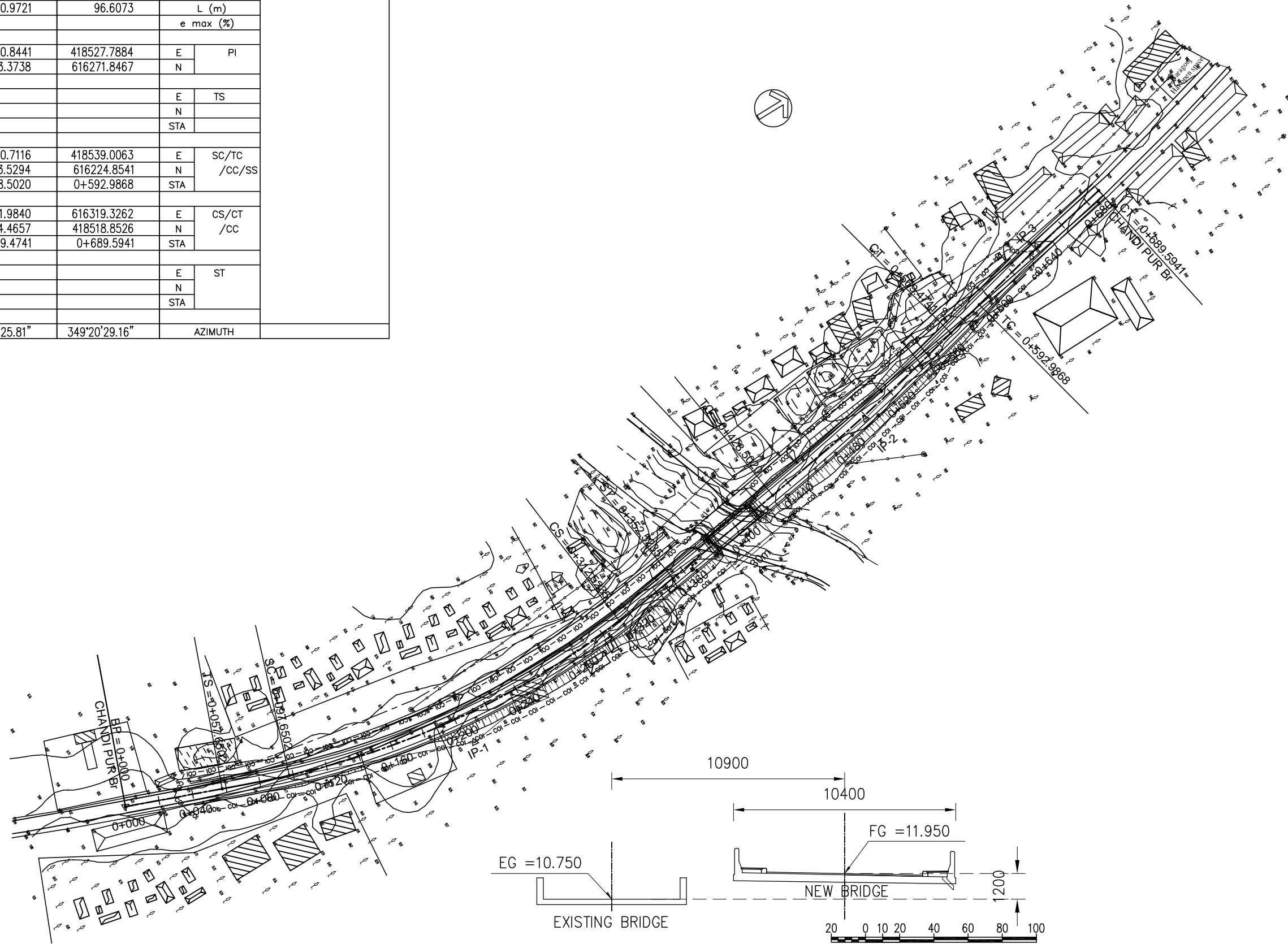


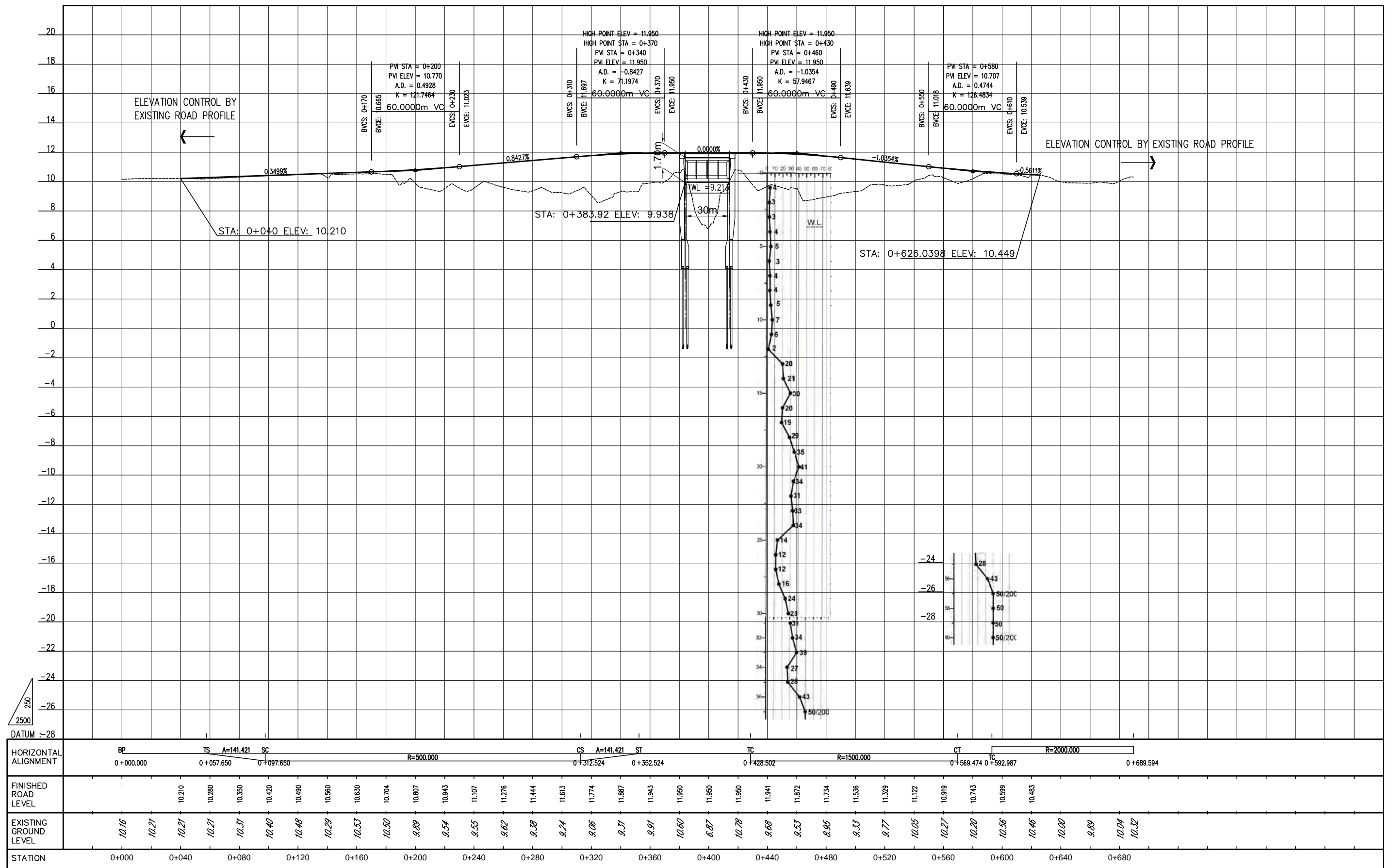


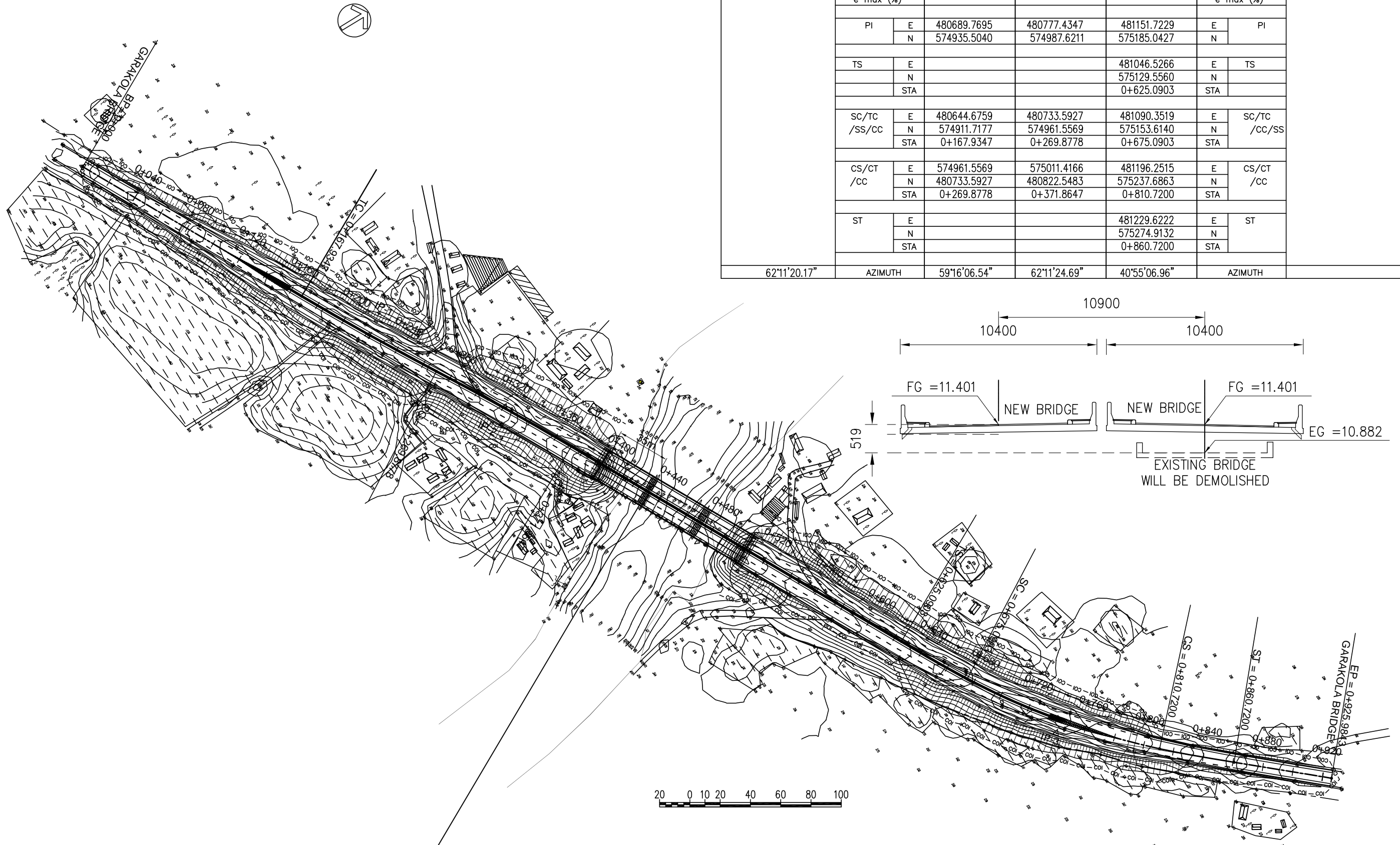
X	347160.6350	V (Kph)		IP-1	IP-2	IP-3		V (Kph)	X	347322.0590
Y	878230.5227	TYPE						TYPE	Y	878713.7336
STA	0+000	△		119°01'38.27"	2°12'58.23"	1°46'07.32"		△	STA	0+685.5983
		R (m)		100.0000	2000.0000	2000.0000		R (m)		
		A		63.2456	63.2456			A		
		TS / TC (m)		190.9630	190.9630	38.6844		TS / TC (m)		
		LC (m)		167.7418	77.3591	61.7393		LC (m)		
		LS (m)		40.0000	40.0000			LS (m)		
		L (m)		247.7420	77.3591	61.7393		L (m)		
		e max (%)						e max (%)		
		PI		E 346927.1106	347186.0435	347259.9595		PI		
				N 878291.0379	878563.3695	878647.3906		N		
		TS		E 347111.9676				TS		
				N 878243.1343				N		
		STA		0+050.2749				STA		
		SC/TC /SS/CC		E 347074.0682	347159.3879	347239.5680		SC/TC /CC/SS		
				N 878255.7024	878535.3346	878624.2114		N		
		STA		0+090.2749	0+444.1497	0+563.8590		STA		
		CS/CT /CC		E 347033.1693	878592.4143	878669.9294		CS/CT /CC		
				N 878398.7257	347211.5951	347281.0566		N		
		STA		0+258.0168	0+521.5088	0+625.5983		STA		
		ST		E 347058.6944				ST		
				N 878429.4306				N		
		STA		0+298.0168				STA		
		284°31'40.70"		AZIMUTH	43°33'18.98"	41°20'20.75"	43°06'28.07" <th>AZIMUTH</th> <td></td> <td></td>	AZIMUTH		



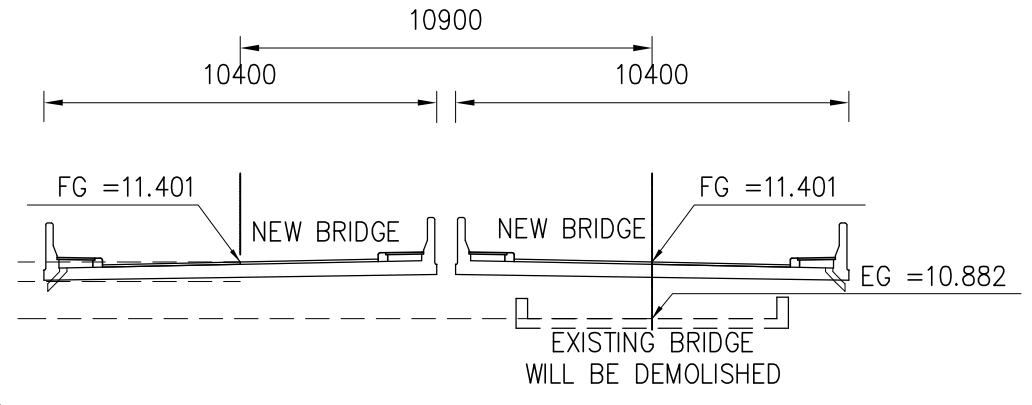
BP		IP-1		IP-2		IP-3		EP	
X	418527.2836	V (Kph)	80	80	80	V (Kph)	X	418518.8526	
Y	615645.5464	TYPE	SPIRAL-CIRCLE-SPIRAL	FULL CIRCLE	FULL CIRCLE	TYPE	Y	616319.3262	
STA	0+000	$\Delta$	29°12'22.79"	5°23'05.06"	2°46'03.34"	$\Delta$	STA	0+689.5941	
		R (m)	500.0000	1500.0000	2000.0000	R (m)			
		A	141.4214   141.4214			A			
		TS / TC (m)	150.3034   150.3034	70.5380	48.3130	TS / TC (m)			
		LC (m)	214.8733	140.9721	96.6073	LC (m)			
		LS (m)	40.0000   40.0000			LS (m)			
		L (m)	294.8730	140.9721	96.6073	L (m)			
		e max (%)				e max (%)			
		PI	E 418602.3659 N 615839.4725	418560.8441 616133.3738	418527.7884 616271.8467	E N	PI		
		TS	E 418548.0984 N 615699.3078 STA 0+057.6502			E N STA	TS		
		SC/TC /SS/CC	E 418562.0409 N 615736.7962 STA 0+097.6502	418570.7116 616063.5294 0+428.5020	418539.0063 616224.8541 0+592.9868	E N STA	SC/TC /CC/SS		
		CS/CT /CC	E 418586.4068 N 615948.6230 STA 0+312.5235	616201.9840 418544.4657 0+569.4741	616319.3262 418518.8526 0+689.5941	E N STA	CS/CT /CC		
		ST	E 418581.3401 N 615988.2980 STA 0+352.5235			E N STA	ST		
	21°09'53.66"	AZIMUTH	351°57'30.88"	346°34'25.81"	349°20'29.16"	AZIMUTH			

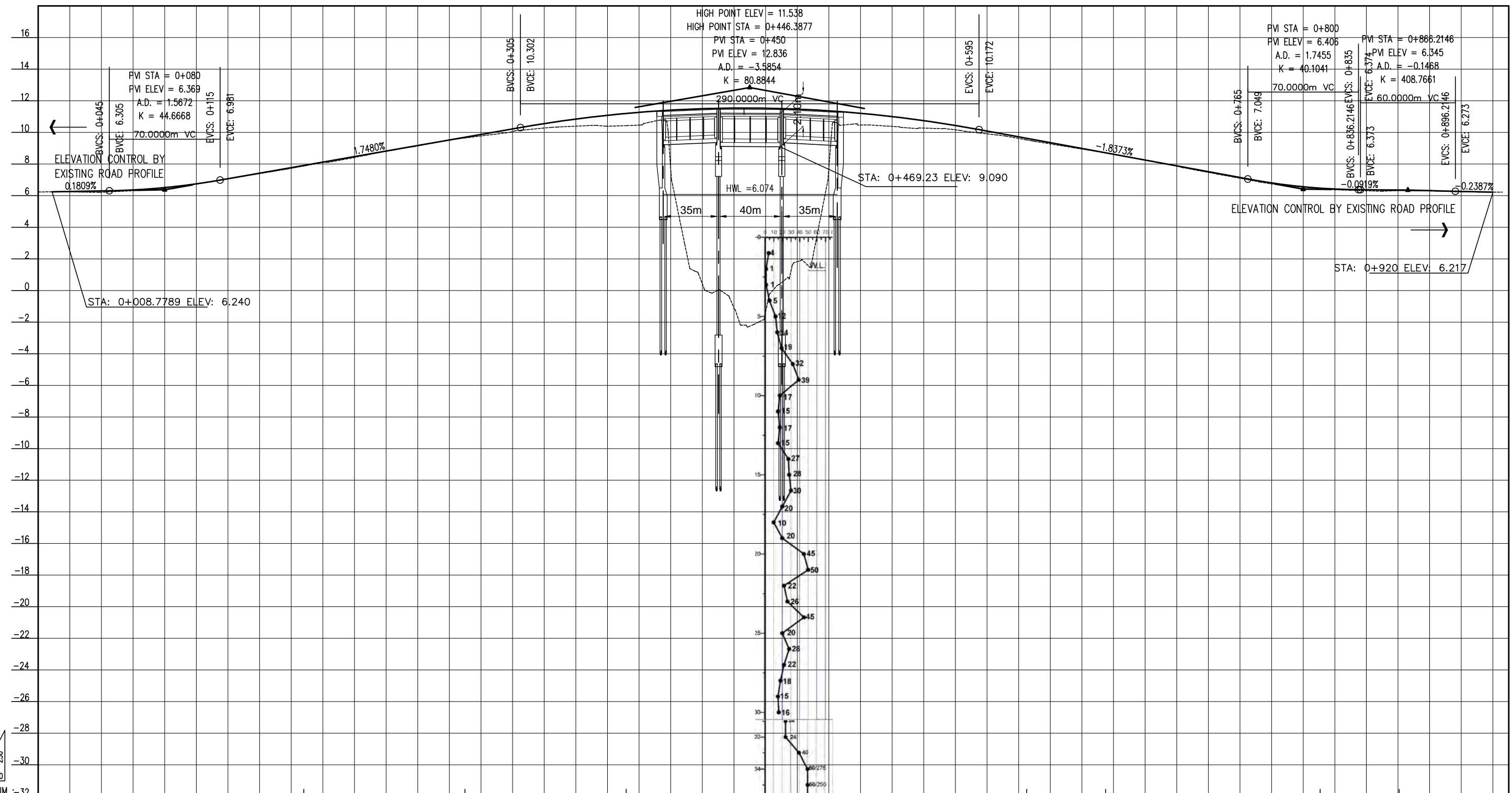




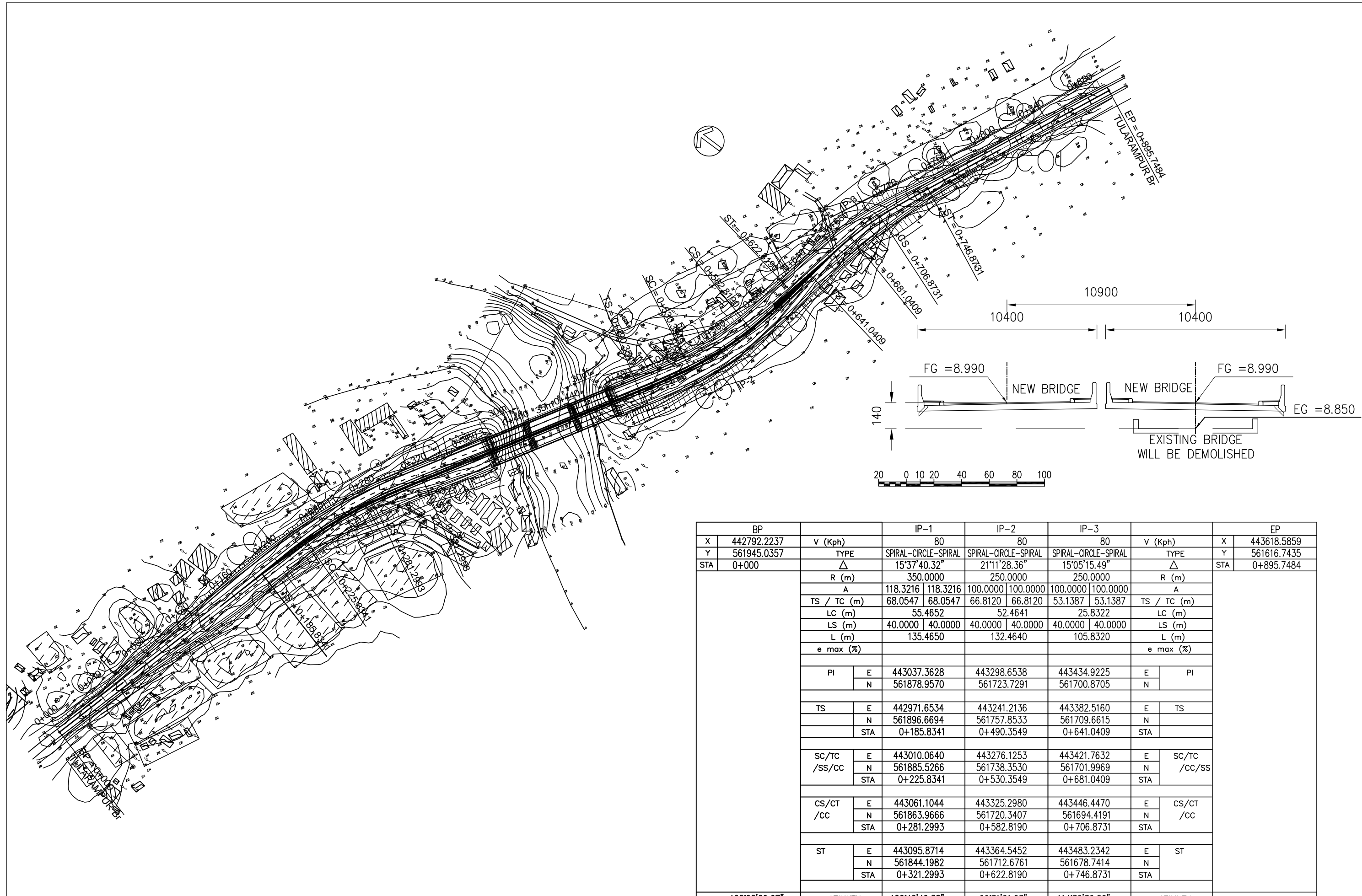


BP		IP-1		IP-2		IP-3		EP	
X	480496.1392	V (Kph)	80	80	80	V (Kph)		X	481272.3694
Y	574833.3666	TYPE	FULL CIRCLE	FULL CIRCLE	SPIRAL-CIRCLE-SPIRAL	TYPE		Y	575324.2296
STA	0+000	$\Delta$	2°55'13.64"	2°55'18.16"	21°16'17.73"	$\Delta$		STA	0+925.9843
		R (m)	2000.0000	2000.0000	500.0000	R (m)			
		A			158.1139   158.1139	A			
		TS / TC (m)	50.9826	51.0045	118.9328   118.9328	TS / TC (m)			
		LC (m)	101.9431	101.9869	135.6297	LC (m)			
		LS (m)			50.0000   50.0000	LS (m)			
		L (m)	101.9431	101.9869	235.6300	L (m)			
		e max (%)				e max (%)			
		PI	E 480689.7695	480777.4347	481151.7229	E	PI		
			N 574935.5040	574987.6211	575185.0427	N			
		TS	E		481046.5266	E	TS		
			N		575129.5560	N			
			STA		0+625.0903	STA			
		SC/TC /SS/CC	E 480644.6759	480733.5927	481090.3519	E	SC/TC /CC/SS		
			N 574911.7177	574961.5569	575153.6140	N			
			STA 0+167.9347	0+269.8778	0+675.0903	STA			
		CS/CT /CC	E 574961.5569	575011.4166	481196.2515	E	CS/CT /CC		
			N 480733.5927	480822.5483	575237.6863	N			
			STA 0+269.8778	0+371.8647	0+810.7200	STA			
		ST	E		481229.6222	E	ST		
			N		575274.9132	N			
			STA		0+860.7200	STA			
	62°11'20.17"	AZIMUTH	59°16'06.54"	62°11'24.69"	40°55'06.96"	AZIMUTH			



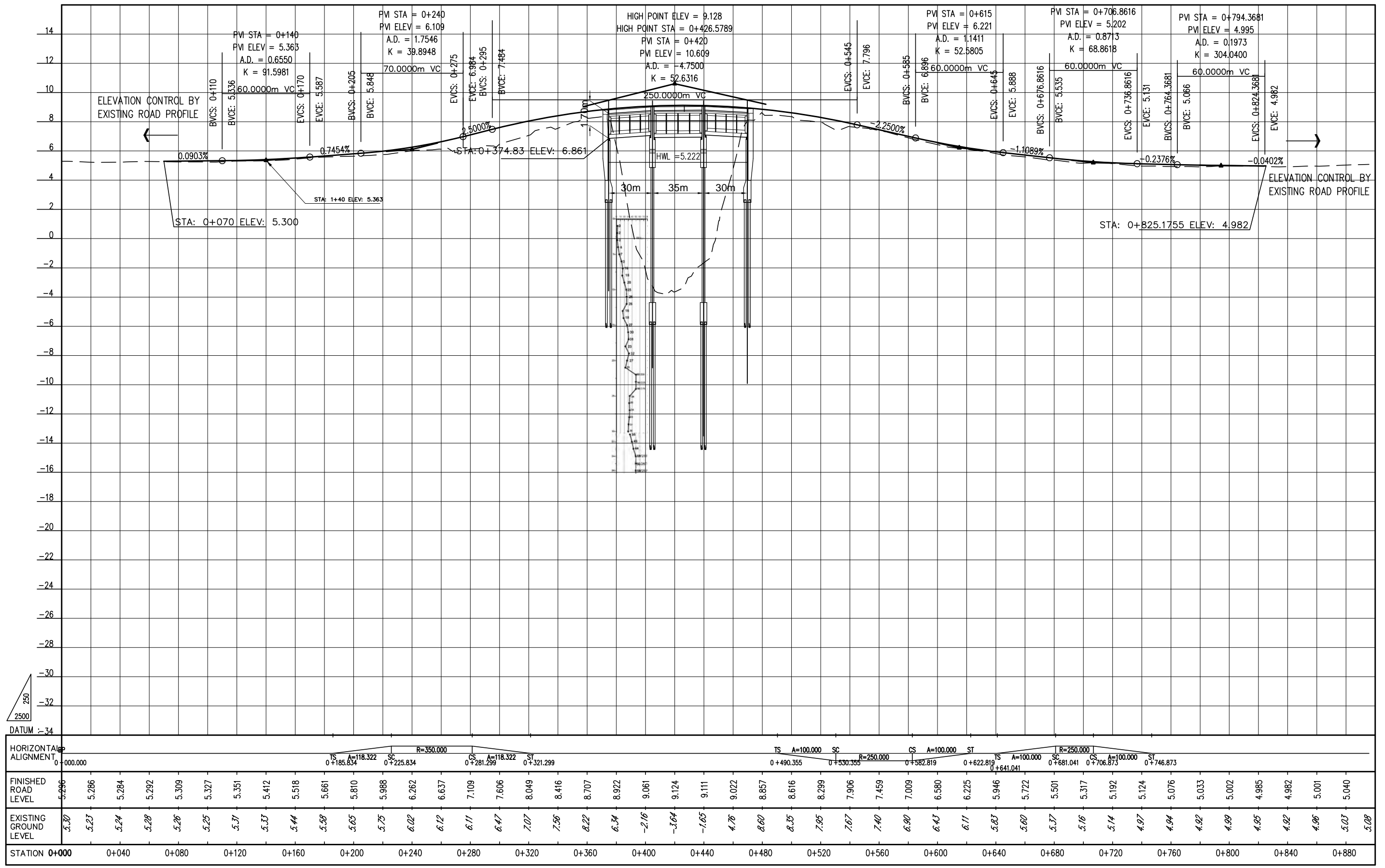


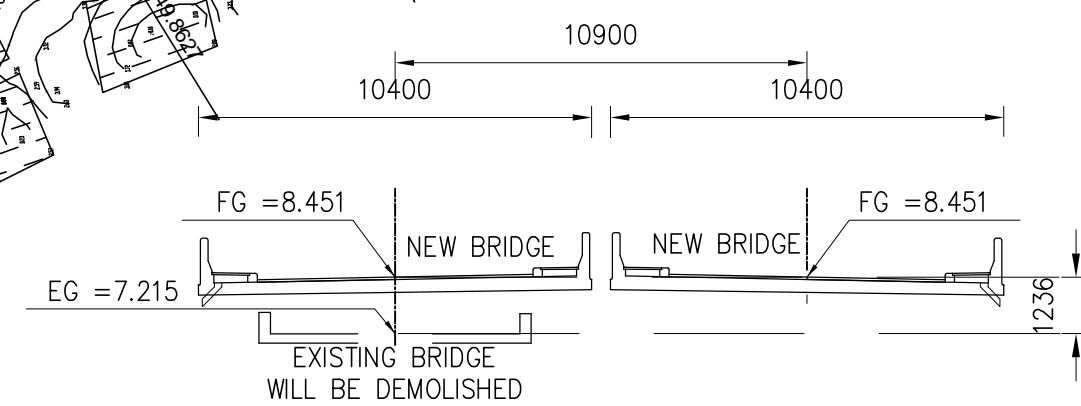
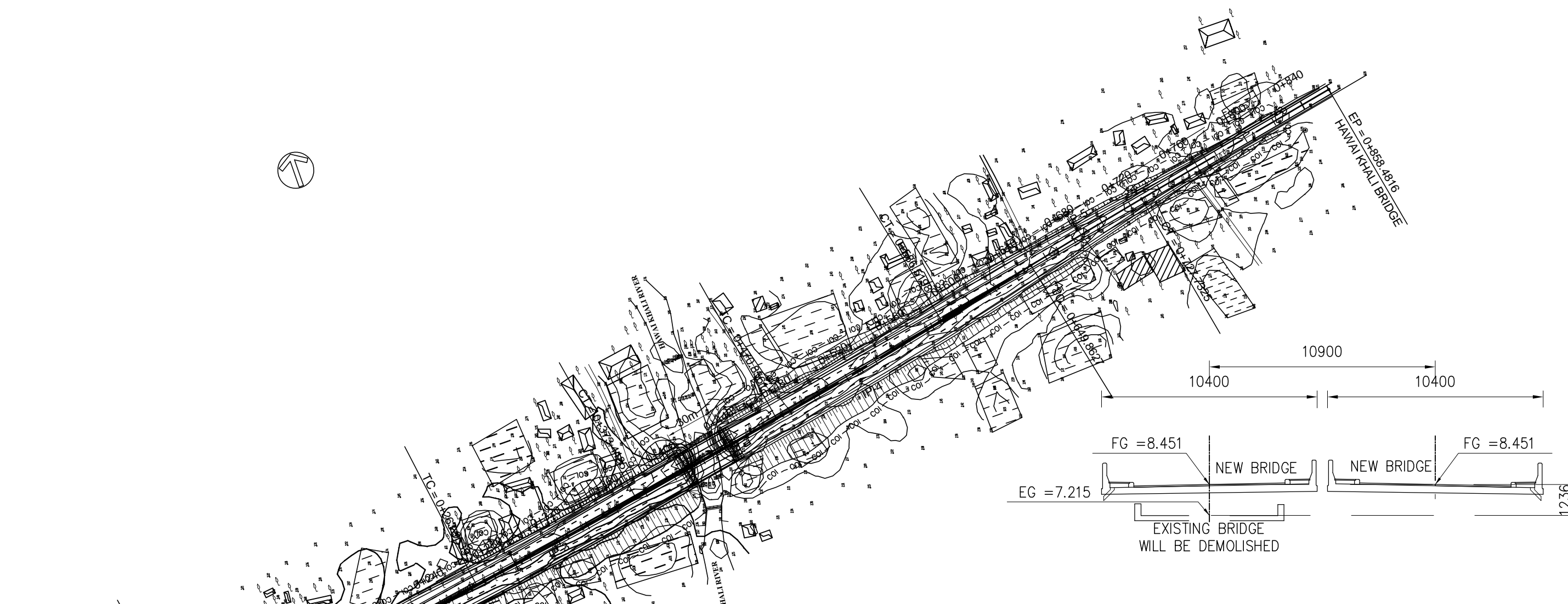
STATION	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+320	0+360	0+400	0+440	0+480	0+520	0+560	0+600	0+640	0+680	0+720	0+760	0+800	0+840	0+880	0+920																						
FINISHED ROAD LEVEL	6.260	6.296	6.358	6.506	6.744	7.068	7.418	7.767	8.117	8.466	8.816	9.166	9.515	9.865	10.214	10.550	10.838	11.076	11.265	11.405	11.495	11.535	11.526	11.468	11.360	11.203	10.996	10.740	10.434	10.080	9.713	9.346	8.978	8.611	8.243	7.876	7.508	7.141	6.801	6.559	6.415	6.369	6.344	6.309	6.264	6.217
EXISTING GROUND LEVEL	6.27	6.27	6.27	6.37	6.42	6.73	7.06	7.39	7.73	8.10	8.41	8.80	9.14	9.51	9.77	10.05	10.27	10.39	10.45	10.72	10.42	11.10	11.35	11.82	11.72	10.46	10.38	10.27	10.16	9.91	9.61	9.27	8.94	8.61	8.24	7.87	7.47	7.10	6.74	6.44	6.37	6.30	6.32	6.30	6.24	6.22



BP		IP-1		IP-2		IP-3		EP		
X	442792.2237	v (Kph) 80		80		80		v (Kph)	X	
Y	561945.0357	TYPE SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL		TYPE	Y	
STA	0+000	15°37'40.32"		21°11'28.36"		15°05'15.49"		△	STA	
		R (m)	350.0000	250.0000	250.0000	R (m)				
		A	118.3216	118.3216	100.0000	100.0000	A			
		TS / TC (m)	68.0547	68.0547	66.8120	66.8120	53.1387	53.1387	TS / TC (m)	
		LC (m)	55.4652	52.4641	52.4641	25.8322	LC (m)			
		LS (m)	40.0000	40.0000	40.0000	40.0000	LS (m)			
		L (m)	135.4650	132.4640	105.8320	L (m)				
		e max (%)					e max (%)			
		PI	E	443037.3628	443298.6538	443434.9225	E	PI		
			N	561878.9570	561723.7291	561700.8705	N			
		TS	E	442971.6534	443241.2136	443382.5160	E	TS		
			N	561896.6694	561757.8533	561709.6615	N			
			STA	0+185.8341	0+490.3549	0+641.0409	STA			
		SC/TC /SS/CC	E	443010.0640	443276.1253	443421.7632	E	SC/TC /CC/SS		
			N	561885.5266	561738.3530	561701.9969	N			
			STA	0+225.8341	0+530.3549	0+681.0409	STA			
		CS/CT /CC	E	443061.1044	443325.2980	443446.4470	E	CS/CT /CC		
			N	561863.9666	561720.3407	561694.4191	N			
			STA	0+281.2993	0+582.8190	0+706.8731	STA			
		ST	E	443095.8714	443364.5452	443483.2342	E	ST		
			N	561844.1982	561712.6761	561678.7414	N			
			STA	0+321.2993	0+622.8190	0+746.8731	STA			
		105°05'09.07"	AZIMUTH		120°42'49.38"	99°31'21.03"	114°36'36.52"	AZIMUTH		







X		V (Kph)		IP-1	IP-2	IP-3	IP-4	IP-5	V (Kph)		X
454719.4486		80		80	80	80	80	80	80		455564.1504
Y		TYPE		FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	FULL CIRCLE	TYPE		Y
563161.8797		△		3°34'04.66"	1°30'32.59"	2°05'28.29"	2°12'32.45"	1°29'13.93"	△		563313.4430
STA		0+000							STA		0+858.4816
R (m)		1000.0000		3000.0000	3000.0000	3000.0000	3000.0000	3000.0000	R (m)		
A									A		
TS / TC (m)		31.1464		39.5092	54.7534	57.8390	57.8390	38.9371	TS / TC (m)		
LC (m)		62.2727		79.0139	109.4946	115.6637	115.6637	77.8698	LC (m)		
LS (m)									LS (m)		
L (m)		62.2727		79.0139	109.4946	115.6637	115.6637	77.8698	L (m)		
e max (%)									e max (%)		
PI		E		454758.0655	454876.1416	455034.6172	455241.2485	455397.5808	E		PI
		N		563166.0246	563186.1956	563208.9906	563246.4541	563281.0705	N		
TS		E							E		TS
		N							N		
STA									STA		
SC/TC		E		454727.0969	454837.1966	454980.4216	455184.3373	455359.5646	E		SC/TC
/SS/CC		N		563162.7006	563179.5426	563201.1952	563236.1358	563272.6526	N		/CC/SS
		STA		0+007.6923	0+119.0960	0+263.9539	0+470.8561	0+649.8627	STA		
CS/CT		E		563171.2694	563191.8207	563218.7585	563258.9584	563288.4989	E		CS/CT
/CC		N		454788.7671	454915.2483	455088.4922	455297.7197	455435.8027	N		/CC
		STA		0+069.9650	0+198.1099	0+373.4485	0+586.5198	0+727.7325	STA		
ST		E							E		ST
		N							N		
STA									STA		
83°52'25.21"		AZIMUTH		80°18'20.55"	81°48'53.14"	79°43'24.85"	77°30'52.40"	79°00'06.33"	AZIMUTH		

