

바. RAMP-E-2

BP

구 분	STATION	지반고	계획고	ELEV	절성고
BP	0+ 0.7126	0.00			

VIP STATION 0+210.0000

구 분	STATION	지반고	계획고	ELEV	절성고	종 거	구 배	길 이
BVC	0+160.0000		88.26	88.26	+88.26	0.0000	-2.0000	100.00
VIP	0+210.0000		86.84	87.26	+86.84	-0.4141		
EVC	0+260.0000		84.60	84.60	+84.60	0.0000	-5.3125	

종단곡선변화비율(K) = 30.19

VIP STATION 0+750.0000

구 분	STATION	지반고	계획고	ELEV	절성고	종 거	구 배	길 이
BVC	0+700.0000		61.23	61.23	+61.23	0.0000	-5.3125	100.00
VIP	0+750.0000		58.42	58.57	+58.42	-0.1484		
EVC	0+800.0000		55.32	55.32	+55.32	0.0000	-6.5000	

종단곡선변화비율(K) = 84.21

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	종 거
0+845.8058	54.66	52.34	52.34	-2.32	0.0000
0+855.0000	48.70	51.74	51.74	+3.04	0.0000
0+860.0000	48.31	51.42	51.42	+3.11	0.0000
0+863.1606	48.35	51.21	51.21	+2.86	0.0000
0+864.5000	48.71	51.13	51.13	+2.42	0.0000
0+876.6000	54.66	50.34	50.34	-4.32	0.0000
0+880.0000	54.92	50.12	50.12	-4.80	0.0000
0+885.0000	55.85	49.79	49.79	-6.06	0.0000
0+885.1157	55.34	49.79	49.79	-5.55	0.0000
0+889.0000	57.13	49.53	49.53	-7.60	0.0000
0+895.0000	57.54	49.14	49.14	-8.40	0.0000
0+900.0000	56.56	48.82	48.82	-7.74	0.0000
0+905.7516	55.28	48.45	48.45	-6.83	0.0000
0+920.0000	48.69	47.52	47.52	-1.17	0.0000
0+923.1457	46.91	47.32	47.32	+0.40	0.0000

부산외곽순환 고속도로 건설공사 실시설계

0+929.1490	41.42	46.92	46.92	+5.50	0.0000
0+937.3903	41.15	46.39	46.39	+5.24	0.0000
0+937.7492	0.00	46.37	46.37	+46.37	0.0000
0+937.8456	0.00	46.36	46.36	+46.36	0.0000
0+937.8757	41.04	46.36	46.36	+5.32	0.0000
0+938.7537	40.93	46.30	46.30	+5.37	0.0000
0+939.1374	0.00	46.28	46.28	+46.28	0.0000
0+939.4853	50.99	46.25	46.25	-4.74	0.0000
0+939.5360	40.83	46.25	46.25	+5.42	0.0000
0+939.9719	0.00	46.22	46.22	+46.22	0.0000
0+940.0000	39.66	46.22	46.22	+6.56	0.0000
0+940.4207	40.96	46.19	46.19	+5.23	0.0000
0+940.6664	0.00	46.18	46.18	+46.18	0.0000
0+940.8191	0.00	46.17	46.17	+46.17	0.0000
0+941.7067	0.00	46.11	46.11	+46.11	0.0000
0+942.8876	40.60	46.03	46.03	+5.43	0.0000
0+943.3177	83.76	46.00	46.00	-37.76	0.0000
0+943.6237	54.53	45.98	45.98	-8.55	0.0000
0+944.0414	-181.52	45.96	45.96	+227.48	0.0000
0+944.2172	-181.60	45.95	45.95	+227.55	0.0000
0+947.0493	0.00	45.76	45.76	+45.76	0.0000
0+949.1000	35.30	45.63	45.63	+10.33	0.0000
0+950.9296	34.59	45.51	45.51	+10.92	0.0000
0+960.0000	32.43	44.92	44.92	+12.49	0.0000
0+960.0664	0.00	44.92	44.92	+44.92	0.0000
0+960.1490	40.97	44.91	44.91	+3.94	0.0000
0+960.1507	0.00	44.91	44.91	+44.91	0.0000
0+960.1508	0.00	44.91	44.91	+44.91	0.0000
0+960.3528	0.00	44.90	44.90	+44.90	0.0000
0+960.4784	0.00	44.89	44.89	+44.89	0.0000
0+960.6154	0.00	44.88	44.88	+44.88	0.0000
0+960.8918	55.36	44.86	44.86	-10.50	0.0000
0+961.0383	32.87	44.85	44.85	+11.98	0.0000
0+961.0774	0.00	44.85	44.85	+44.85	0.0000
0+961.1342	55.33	44.85	44.85	-10.48	0.0000
0+961.3192	55.41	44.83	44.83	-10.57	0.0000
0+961.3238	0.00	44.83	44.83	+44.83	0.0000
0+961.3369	40.97	44.83	44.83	+3.87	0.0000
0+961.4126	40.97	44.83	44.83	+3.86	0.0000
0+961.4143	0.00	44.83	44.83	+44.83	0.0000
0+961.4144	0.00	44.83	44.83	+44.83	0.0000
0+961.4288	36.14	44.83	44.83	+8.68	0.0000
0+962.7759	0.00	44.74	44.74	+44.74	0.0000
0+963.6217	0.00	44.68	44.68	+44.68	0.0000
0+964.0766	31.91	44.65	44.65	+12.75	0.0000

0+964.6610	0.00	44.62	44.62	+44.62	0.0000
0+965.5000	31.60	44.56	44.56	+12.96	0.0000
0+965.7000	31.02	44.55	44.55	+13.53	0.0000
0+967.7000	31.02	44.42	44.42	+13.40	0.0000
0+968.0923	0.00	44.39	44.39	+44.39	0.0000
0+968.7000	31.41	44.35	44.35	+12.95	0.0000
0+970.9000	32.80	44.21	44.21	+11.41	0.0000
0+976.9561	32.77	43.82	43.82	+11.05	0.0000
0+978.2000	32.80	43.74	43.74	+10.93	0.0000
0+978.6808	0.00	43.71	43.71	+43.71	0.0000
0+979.1578	74.91	43.67	43.67	-31.23	0.0000
0+980.0000	34.55	43.62	43.62	+9.07	0.0000
0+980.1421	0.00	43.61	43.61	+43.61	0.0000
0+980.2381	0.00	43.60	43.60	+43.60	0.0000
0+980.2684	43.83	43.60	43.60	-0.23	0.0000
0+980.3928	0.00	43.59	43.59	+43.59	0.0000
0+980.4668	0.00	43.59	43.59	+43.59	0.0000
0+981.1041	0.00	43.55	43.55	+43.55	0.0000
0+983.0000	34.75	43.42	43.42	+8.67	0.0000
0+984.1593	0.00	43.35	43.35	+43.35	0.0000
0+989.6853	37.70	42.99	42.99	+5.29	0.0000
0+996.8263	62.13	42.53	42.53	-19.61	0.0000
1+ 0.0000	41.70	42.32	42.32	+0.62	0.0000
1+ 0.1182	242.40	42.31	42.31	-200.09	0.0000
1+ 2.3269	242.46	42.17	42.17	-200.29	0.0000
1+ 2.3771	42.82	42.16	42.16	-0.66	0.0000
1+ 8.7438	85.08	41.75	41.75	-43.33	0.0000
1+ 14.4499	59.21	41.38	41.38	-17.83	0.0000
1+ 15.1431	47.16	41.34	41.34	-5.83	0.0000
1+ 20.0000	47.50	41.02	41.02	-6.48	0.0000
1+ 20.6935	64.93	40.97	40.97	-23.95	0.0000
1+ 20.8903	256.42	40.96	40.96	-215.46	0.0000
1+ 26.4174	-11.73	40.60	40.60	+52.34	0.0000
1+ 28.1357	53.61	40.49	40.49	-13.12	0.0000
1+ 32.0443	64.95	40.24	40.24	-24.71	0.0000
1+ 40.0000	43.98	39.72	39.72	-4.26	0.0000
1+ 40.9481	59.07	39.66	39.66	-19.41	0.0000
1+ 42.8381	75.06	39.54	39.54	-35.52	0.0000
1+ 49.6250	77.17	39.09	39.09	-38.08	0.0000
1+ 59.8845	76.95	38.43	38.43	-38.52	0.0000
1+ 60.0000	35.16	38.42	38.42	+3.26	0.0000
1+ 61.6360	-16.41	38.31	38.31	+54.72	0.0000
1+ 63.4520	86.33	38.20	38.20	-48.14	0.0000
1+ 67.2077	47.54	37.95	37.95	-9.59	0.0000
1+ 79.0516	82.73	37.18	37.18	-45.55	0.0000

부산외곽순환 고속도로 건설공사 실시설계

1+ 80.0000	28.59	37.12	37.12	+8.53	0.0000
1+ 80.7305	111.00	37.07	37.07	-73.93	0.0000
1+ 81.5422	111.11	37.02	37.02	-74.10	0.0000
1+ 84.8081	7.85	36.81	36.81	+28.95	0.0000
1+ 99.4162	99.12	35.86	35.86	-63.27	0.0000
1+100.0000	24.36	35.82	35.82	+11.46	0.0000
1+102.4416	14.26	35.66	35.66	+21.40	0.0000
1+119.6999	106.80	34.54	34.54	-72.26	0.0000
1+120.0000	21.85	34.52	34.52	+12.67	0.0000
1+120.1239	33.88	34.51	34.51	+0.63	0.0000
1+137.8708	19.60	33.36	33.36	+13.75	0.0000
1+139.8935	89.48	33.23	33.23	-56.25	0.0000
1+140.0000	19.15	33.22	33.22	+14.07	0.0000
1+144.1857	104.18	32.95	32.95	-71.23	0.0000
1+148.4756	60.00	32.67	32.67	-27.33	0.0000
1+148.9363	59.98	32.64	32.64	-27.35	0.0000
1+154.6299	88.40	32.27	32.27	-56.13	0.0000
1+155.3016	3.27	32.22	32.22	+28.96	0.0000
1+155.6978	3.29	32.20	32.20	+28.91	0.0000
1+160.0000	18.51	31.92	31.92	+13.41	0.0000
1+160.0147	48.97	31.92	31.92	-17.05	0.0000
1+162.0235	0.00	31.79	31.79	+31.79	0.0000
1+163.1810	79.88	31.71	31.71	-48.17	0.0000
1+163.1814	79.88	31.71	31.71	-48.17	0.0000
1+164.6463	18.64	31.62	31.62	+12.98	0.0000
1+180.0000	18.59	30.62	30.62	+12.03	0.0000
1+180.0822	47.38	30.61	30.61	-16.77	0.0000
1+190.1210	36.62	29.96	29.96	-6.66	0.0000
1+200.0000	16.39	29.32	29.32	+12.93	0.0000
1+200.1795	38.85	29.31	29.31	-9.54	0.0000
1+207.5000	12.65	28.83	28.83	+16.18	0.0000
1+208.7000	12.65	28.75	28.75	+16.10	0.0000
1+209.6000	13.40	28.70	28.70	+15.29	0.0000
1+215.3000	13.30	28.32	28.32	+15.02	0.0000
1+220.0000	12.56	28.02	28.02	+15.46	0.0000
1+220.3729	37.33	28.00	28.00	-9.33	0.0000
1+228.0788	0.00	27.49	27.49	+27.49	0.0000
1+228.2311	0.00	27.48	27.48	+27.48	0.0000
1+228.6881	0.00	27.45	27.45	+27.45	0.0000
1+228.8404	0.00	27.44	27.44	+27.44	0.0000
1+231.4312	0.00	27.28	27.28	+27.28	0.0000
1+231.5329	0.00	27.27	27.27	+27.27	0.0000
1+232.1429	0.00	27.23	27.23	+27.23	0.0000
1+232.2445	0.00	27.22	27.22	+27.22	0.0000
1+233.5000	12.56	27.14	27.14	+14.58	0.0000

1+234.7000	11.94	27.06	27.06	+15.12	0.0000
1+240.0000	11.94	26.72	26.72	+14.78	0.0000
1+240.6974	35.99	26.67	26.67	-9.32	0.0000
1+250.9203	33.51	26.01	26.01	-7.50	0.0000
1+260.0000	11.94	25.42	25.42	+13.48	0.0000
1+261.1899	35.01	25.34	25.34	-9.67	0.0000
1+269.1000	11.94	24.83	24.83	+12.89	0.0000
1+270.7000	11.60	24.72	24.72	+13.12	0.0000
1+276.8000	11.60	24.33	24.33	+12.73	0.0000
1+277.6000	11.32	24.28	24.28	+12.95	0.0000
1+280.0000	11.32	24.12	24.12	+12.80	0.0000
1+281.8901	32.94	24.00	24.00	-8.94	0.0000
1+292.2000	11.32	23.33	23.33	+12.00	0.0000

VIP STATION 1+445.0000

구 분	STATION	지반고	계획고	ELEV	절성고	종 거	구 배	길 이
BVC	1+295.0000	11.27	23.14	23.14	+11.87	0.0000	-6.5000	300.00
VIP	1+445.0000		16.04	13.39	+16.04	2.6472		
EVC	1+595.0000		14.23	14.23	+14.23	0.0000	+0.5593	

중단곡선변화비율(K) = 42.50

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	종 거
1+295.3000	11.26	23.13	23.13	+11.86	0.0000
1+295.3000	11.26	23.13	23.13	+11.86	0.0000
1+300.0000	11.26	22.82	22.82	+11.56	0.0029
1+302.8411	-1.50	22.64	22.63	+24.14	0.0072
1+320.0000	11.26	21.59	21.52	+10.33	0.0735
1+324.0905	-0.68	21.35	21.25	+22.04	0.0996
1+328.2000	11.26	21.12	20.99	+9.85	0.1297
1+329.5000	11.18	21.04	20.90	+9.86	0.1400
1+336.0320	0.00	20.68	20.48	+20.68	0.1981
1+336.3563	0.00	20.66	20.46	+20.66	0.2012
1+337.3298	0.00	20.60	20.39	+20.60	0.2108
1+337.3299	0.00	20.60	20.39	+20.60	0.2108
1+337.6545	0.00	20.59	20.37	+20.59	0.2141
1+337.6546	0.00	20.59	20.37	+20.59	0.2141
1+339.4962	0.00	20.49	20.25	+20.49	0.2329
1+340.0000	11.18	20.46	20.22	+9.28	0.2383
1+340.4000	11.18	20.44	20.19	+9.26	0.2425
1+340.4723	0.00	20.43	20.19	+20.43	0.2433
1+340.7000	11.38	20.42	20.17	+9.04	0.2457

부산외곽순환 고속도로 건설공사 실시설계

1+341.2320	0.00	20.39	20.14	+20.39	0.2515
1+342.1008	0.00	20.34	20.08	+20.34	0.2610
1+345.6917	-0.46	20.15	19.85	+20.61	0.3023
1+358.3000	11.43	19.50	19.03	+8.07	0.4714
1+360.0000	11.41	19.42	18.92	+8.01	0.4971
1+360.7226	0.00	19.38	18.87	+19.38	0.5082
1+361.4962	0.00	19.34	18.82	+19.34	0.5202
1+367.7054	11.32	19.04	18.42	+7.72	0.6219
1+371.7000	11.46	18.85	18.16	+7.39	0.6922
1+372.6103	0.00	18.81	18.10	+18.81	0.7087
1+373.2800	11.16	18.78	18.06	+7.62	0.7210
1+373.6148	0.00	18.76	18.03	+18.76	0.7271
1+374.2000	11.71	18.73	18.00	+7.02	0.7380
1+374.7304	0.00	18.71	17.96	+18.71	0.7479
1+375.7342	0.00	18.66	17.90	+18.66	0.7669
1+380.0000	11.76	18.47	17.62	+6.71	0.8501
1+382.8000	11.81	18.34	17.44	+6.53	0.9070
1+383.4000	10.85	18.32	17.40	+7.47	0.9194
1+384.2000	10.85	18.28	17.35	+7.43	0.9361
1+384.2268	0.00	18.28	17.34	+18.28	0.9367
1+384.8000	11.60	18.26	17.31	+6.65	0.9488
1+390.0973	11.58	18.03	16.96	+6.45	1.0640
1+392.6083	0.00	17.92	16.80	+17.92	1.1209
1+395.0255	0.00	17.82	16.64	+17.82	1.1771
1+400.0000	12.05	17.62	16.32	+5.57	1.2971
1+405.1781	12.04	17.41	15.98	+5.37	1.4282

EP

구 분	STATION	지반고	계획고	ELEV	절성고
E P	2+264.5057	0.00			

사. RAMP-E-3

BP

구 분	STATION	지반고	계획고	ELEV	절성고
BP	0- 0.7126	0.00			

VIP STATION 0+210.0000

구 분	STATION	지반고	계획고	ELEV	절성고	종 거	구 배	길 이
BVC	0+160.0000		88.26	88.26	+88.26	0.0000	-2.0000	100.00
VIP	0+210.0000		86.84	87.26	+86.84	-0.4141		
EVC	0+260.0000		84.60	84.60	+84.60	0.0000	-5.3125	

종단곡선변화비율(K) = 30.19

VIP STATION 0+750.0000

구 분	STATION	지반고	계획고	ELEV	절성고	종 거	구 배	길 이
BVC	0+700.0000		61.23	61.23	+61.23	0.0000	-5.3125	100.00
VIP	0+750.0000		58.42	58.57	+58.42	-0.1484		
EVC	0+800.0000		55.32	55.32	+55.32	0.0000	-6.5000	

종단곡선변화비율(K) = 84.21

VIP STATION 1+445.0000

구 분	STATION	지반고	계획고	ELEV	절성고	종 거	구 배	길 이
BVC	1+295.0000		23.14	23.14	+23.14	0.0000	-6.5000	300.00
VIP	1+445.0000	11.21	16.04	13.39	+4.83	2.6472		
EVC	1+595.0000	11.83	14.23	14.23	+2.40	0.0000	+0.5593	

종단곡선변화비율(K) = 42.50

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	종 거
1+405.1781	12.08	17.41	15.98	+5.33	1.4282
1+417.6950	12.05	16.94	15.17	+4.89	1.7712
1+420.0000	12.04	16.86	15.02	+4.81	1.8384
1+420.0137	12.04	16.86	15.02	+4.81	1.8388
1+437.5148	11.76	16.27	13.88	+4.51	2.3896
1+438.7000	11.70	16.23	13.80	+4.53	2.4295
1+439.5000	11.04	16.21	13.75	+5.17	2.4567
1+439.5000	10.64	16.21	13.75	+5.57	2.4567
1+440.0000	10.64	16.19	13.72	+5.55	2.4737
1+440.0847	10.64	16.19	13.71	+5.55	2.4766
1+440.6000	10.64	16.17	13.68	+5.53	2.4942
1+440.6000	11.04	16.17	13.68	+5.13	2.4942

부산외곽순환 고속도로 건설공사 실시설계

1+442.6000	11.20	16.11	13.55	+4.92	2.5632
1+442.9000	10.60	16.10	13.53	+5.51	2.5736
1+444.0000	10.60	16.07	13.46	+5.48	2.6121
1+444.3000	11.20	16.06	13.44	+4.87	2.6226
1+447.7000	11.27	15.96	13.41	+4.70	2.5528
1+451.2000	11.95	15.86	13.43	+3.91	2.4329
1+457.2371	13.00	15.70	13.46	+2.70	2.2329
1+460.0000	13.10	15.62	13.48	+2.52	2.1443
1+460.2933	13.11	15.61	13.48	+2.51	2.1350
1+476.8946	12.84	15.21	13.57	+2.37	1.6412
1+480.0000	12.48	15.15	13.59	+2.66	1.5560
1+481.0115	12.52	15.12	13.60	+2.61	1.5287
1+491.7000	10.88	14.91	13.66	+4.03	1.2555
1+491.9000	10.28	14.91	13.66	+4.63	1.2506
1+492.8000	10.28	14.89	13.66	+4.61	1.2289
1+493.0000	10.88	14.89	13.66	+4.01	1.2241
1+494.7000	10.68	14.86	13.67	+4.18	1.1836
1+494.7000	10.28	14.86	13.67	+4.58	1.1836
1+495.6000	10.28	14.84	13.68	+4.56	1.1625
1+495.6000	10.68	14.84	13.68	+4.16	1.1625
1+496.5000	10.68	14.82	13.68	+4.15	1.1415
1+496.5331	10.57	14.82	13.68	+4.25	1.1408
1+497.0000	10.83	14.82	13.69	+3.98	1.1300
1+500.0000	10.88	14.76	13.70	+3.88	1.0618
1+502.5000	10.78	14.72	13.72	+3.94	1.0067
1+502.7493	10.91	14.72	13.72	+3.81	1.0013
1+507.4000	8.84	14.65	13.74	+5.81	0.9029
1+509.0000	8.84	14.62	13.75	+5.78	0.8702
1+512.1000	9.02	14.58	13.77	+5.55	0.8086
1+516.1533	8.93	14.52	13.79	+5.59	0.7314
1+520.0000	8.78	14.48	13.81	+5.69	0.6618
1+526.0880	8.80	14.41	13.85	+5.61	0.5587
1+535.7459	8.96	14.32	13.90	+5.36	0.4131
1+540.0000	8.31	14.28	13.93	+5.97	0.3559
1+550.3000	8.77	14.22	13.98	+5.45	0.2351
1+551.6707	8.36	14.21	13.99	+5.85	0.2209
1+555.2000	9.72	14.20	14.01	+4.48	0.1864
1+555.2994	9.11	14.20	14.01	+5.09	0.1854
1+560.0000	9.78	14.18	14.04	+4.40	0.1441
1+561.6000	9.79	14.18	14.05	+4.38	0.1313
1+564.2000	10.25	14.17	14.06	+3.93	0.1116
1+565.7000	10.22	14.17	14.07	+3.95	0.1010
1+565.7000	9.82	14.17	14.07	+4.35	0.1010
1+566.9000	9.82	14.17	14.08	+4.35	0.0929
1+566.9000	10.22	14.17	14.08	+3.95	0.0929

1+569.0000	10.42	14.17	14.09	+3.75	0.0795
1+569.3000	9.82	14.17	14.09	+4.35	0.0777
1+570.4000	9.82	14.17	14.10	+4.35	0.0712
1+570.7000	10.42	14.17	14.10	+3.75	0.0695
1+574.7981	9.86	14.17	14.12	+4.31	0.0480
1+579.4000	11.86	14.17	14.15	+2.32	0.0286
1+580.0000	11.84	14.18	14.15	+2.33	0.0265
1+580.1206	10.79	14.18	14.15	+3.39	0.0260
1+581.7000	12.06	14.18	14.16	+2.12	0.0208
1+594.2203	9.84	14.23	14.23	-4.39	0.0001
1+597.2000	17.47	14.25	14.25	-3.22	0.0000
1+598.8000	17.67	14.25	14.25	-3.41	0.0000
1+600.0000	18.26	14.26	14.26	-4.00	0.0000
1+600.3000	18.45	14.26	14.26	-4.19	0.0000
1+608.5000	23.58	14.31	14.31	-9.27	0.0000
1+608.5000	24.28	14.31	14.31	-9.97	0.0000
1+609.0000	24.28	14.31	14.31	-9.97	0.0000
1+609.0000	23.58	14.31	14.31	-9.27	0.0000
1+609.6000	23.58	14.32	14.32	-9.27	0.0000
1+609.8000	23.38	14.32	14.32	-9.07	0.0000
1+613.5344	9.44	14.34	14.34	-4.90	0.0000
1+620.0000	23.30	14.37	14.37	-8.93	0.0000
1+623.7000	23.50	14.39	14.39	-9.11	0.0000
1+624.9000	23.50	14.40	14.40	-9.10	0.0000
1+624.9000	23.25	14.40	14.40	-8.85	0.0000
1+632.2000	22.95	14.44	14.44	-8.51	0.0000
1+632.3000	23.15	14.44	14.44	-8.71	0.0000
1+632.3169	73.36	14.44	14.44	-58.91	0.0000
1+632.4000	23.15	14.44	14.44	-8.71	0.0000
1+634.8000	23.13	14.46	14.46	-8.67	0.0000
1+637.7000	23.30	14.47	14.47	-8.82	0.0000
1+637.8000	23.30	14.47	14.47	-8.82	0.0000
1+637.9000	23.10	14.47	14.47	-8.62	0.0000
1+640.0000	22.97	14.49	14.49	-8.49	0.0000
1+645.3000	22.50	14.51	14.51	-7.99	0.0000
1+645.4000	22.70	14.52	14.52	-8.19	0.0000
1+645.5000	22.70	14.52	14.52	-8.19	0.0000
1+645.5000	22.53	14.52	14.52	-8.02	0.0000
1+649.2290	20.82	14.54	14.54	-6.29	0.0000
1+649.5290	22.12	14.54	14.54	-7.58	0.0000
1+650.5385	12.28	14.54	14.54	+2.27	0.0000
1+660.0000	15.10	14.60	14.60	-0.50	0.0000
1+669.8000	10.92	14.65	14.65	+3.73	0.0000
1+670.1000	10.42	14.65	14.65	+4.23	0.0000
1+670.8000	10.30	14.66	14.66	+4.36	0.0000

부산외곽순환 고속도로 건설공사 실시설계

1+671.0000	10.80	14.66	14.66	+3.86	0.0000
1+673.4071	14.28	14.67	14.67	+0.39	0.0000
1+680.0000	11.11	14.71	14.71	+3.60	0.0000
1+696.0000	9.67	14.80	14.80	+5.13	0.0000
1+700.0000	9.67	14.82	14.82	+5.15	0.0000
1+700.9584	17.02	14.83	14.83	-2.20	0.0000
1+701.7000	9.67	14.83	14.83	+5.16	0.0000
1+701.7000	9.07	14.83	14.83	+5.76	0.0000
1+703.0000	9.12	14.84	14.84	+5.72	0.0000
1+703.5000	9.72	14.84	14.84	+5.12	0.0000
1+711.8000	9.75	14.89	14.89	+5.13	0.0000
1+720.0000	9.74	14.93	14.93	+5.19	0.0000
1+731.2000	10.00	15.00	15.00	+5.00	0.0000
1+733.7215	20.20	15.01	15.01	-5.19	0.0000
1+733.8000	11.23	15.01	15.01	+3.78	0.0000
1+740.0000	11.26	15.04	15.04	+3.78	0.0000
1+760.0000	11.37	15.16	15.16	+3.79	0.0000
1+767.7631	22.74	15.20	15.20	-7.54	0.0000
1+780.0000	11.29	15.27	15.27	+3.98	0.0000
1+800.0000	11.12	15.38	15.38	+4.26	0.0000
1+801.6609	20.06	15.39	15.39	-4.67	0.0000
1+820.0000	10.69	15.49	15.49	+4.80	0.0000
1+820.6000	10.69	15.50	15.50	+4.80	0.0000
1+821.1000	10.32	15.50	15.50	+5.18	0.0000
1+822.7000	10.32	15.51	15.51	+5.19	0.0000
1+831.6690	19.60	15.56	15.56	-4.05	0.0000
1+840.0000	14.76	15.60	15.60	+0.84	0.0000
1+854.5551	19.30	15.69	15.69	-3.62	0.0000
1+860.0000	14.01	15.72	15.72	+1.70	0.0000
1+866.8000	12.20	15.75	15.75	+3.55	0.0000
1+870.6000	12.30	15.77	15.77	+3.47	0.0000
1+874.5609	18.86	15.80	15.80	-3.06	0.0000
1+880.0000	14.81	15.83	15.83	+1.02	0.0000
1+894.5663	18.91	15.91	15.91	-3.00	0.0000
1+900.0000	15.88	15.94	15.94	+0.06	0.0000

VIP STATION 1+940.0000

구 분	STATION	지반고	계획고	ELEV	절성고	종 거	구 배	길 이
BVC	1+900.0000	15.88	15.94	15.94	+0.06	0.0000	+0.5593	80.00
VIP	1+940.0000	16.16	15.94	16.16	-0.22	-0.2247		
EVC	1+980.0000	8.56	15.49	15.49	+6.93	0.0000	-1.6880	

중단곡선변화비율(K) = 35.60

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	증 거
1+900.0000	15.88	15.94	15.94	+0.06	0.0000
1+900.0000	15.88	15.94	15.94	+0.06	0.0000
1+914.5786	18.99	15.99	16.02	-3.00	-0.0299
1+920.0000	15.58	15.99	16.05	+0.41	-0.0562
1+934.8923	18.93	15.96	16.13	-2.96	-0.1710
1+940.0000	16.16	15.94	16.16	-0.22	-0.2247
1+954.0265	19.66	15.83	15.93	-3.83	-0.0948
1+957.6000	11.57	15.80	15.87	+4.22	-0.0705
1+960.0000	11.39	15.77	15.83	+4.38	-0.0562
1+961.2000	11.36	15.76	15.81	+4.40	-0.0496
1+961.7000	10.56	15.75	15.80	+5.19	-0.0470
1+963.1000	10.50	15.73	15.77	+5.23	-0.0401
1+963.6000	11.30	15.73	15.76	+4.43	-0.0378
1+964.8000	11.40	15.71	15.74	+4.31	-0.0325
1+969.7000	12.30	15.65	15.66	+3.35	-0.0149
1+972.1674	17.31	15.61	15.62	-1.70	-0.0086
1+974.5000	11.50	15.58	15.58	+4.08	-0.0042
1+979.5000	9.36	15.50	15.50	+6.14	-0.0000
1+979.8000	8.56	15.49	15.49	+6.93	-0.0000
1+980.0000	8.56	15.49	15.49	+6.93	0.0000
1+980.5000	8.56	15.48	15.48	+6.92	0.0000
1+980.7500	9.36	15.48	15.48	+6.11	0.0000
1+993.5951	17.03	15.26	15.26	-1.77	0.0000
2+ 0.0000	8.92	15.15	15.15	+6.23	0.0000
2+ 17.3291	16.62	14.86	14.86	-1.76	0.0000
2+ 20.0000	8.78	14.81	14.81	+6.03	0.0000

VIP STATION 2+ 60.0000

구 분	STATION	지반고	계획고	ELEV	절성고	증 거	구 배	길 이
BVC	2+ 20.0000	8.78	14.81	14.81	+6.03	0.0000	-1.6880	80.00
VIP	2+ 60.0000	8.80	14.40	14.14	+5.60	0.2600		
EVC	2+100.0000	13.03	14.50	14.50	+1.47	0.0000	+0.9115	

중단곡선변화비율(K) = 30.78

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	증 거
2+ 20.0000	8.78	14.81	14.81	+6.03	0.0000
2+ 20.0000	8.78	14.81	14.81	+6.03	0.0000
2+ 40.0000	7.86	14.54	14.48	+6.68	0.0650
2+ 41.6297	15.67	14.52	14.45	-1.14	0.0760
2+ 42.6000	7.64	14.51	14.43	+6.87	0.0830

부산외곽순환 고속도로 건설공사 실시설계

2+ 43.1000	6.84	14.51	14.42	+7.67	0.0867
2+ 44.8000	6.80	14.49	14.39	+7.69	0.0999
2+ 45.3000	7.60	14.49	14.39	+6.89	0.1040
2+ 53.9000	7.84	14.43	14.24	+6.59	0.1867
2+ 60.0000	8.80	14.40	14.14	+5.60	0.2600
2+ 65.7048	15.32	14.38	14.19	-0.94	0.1911
2+ 80.0000	11.11	14.38	14.32	+3.27	0.0650
2+ 81.3000	11.30	14.39	14.33	+3.09	0.0568
2+ 81.3000	10.90	14.39	14.33	+3.49	0.0568
2+ 81.8000	11.00	14.39	14.34	+3.39	0.0538
2+ 81.8000	11.40	14.39	14.34	+2.99	0.0538
2+ 89.2644	15.04	14.42	14.40	-0.62	0.0187
2+100.0000	13.03	14.50	14.50	+1.47	0.0000
2+112.4550	14.82	14.62	14.62	-0.21	0.0000
2+120.0000	14.94	14.68	14.68	-0.26	0.0000
2+123.0000	14.99	14.71	14.71	-0.28	0.0000
2+123.0000	14.59	14.71	14.71	+0.12	0.0000
2+123.5000	14.61	14.72	14.72	+0.11	0.0000
2+123.5000	15.01	14.72	14.72	-0.29	0.0000
2+126.0000	15.10	14.74	14.74	-0.36	0.0000
2+127.3000	15.10	14.75	14.75	-0.35	0.0000
2+129.9000	14.80	14.77	14.77	-0.03	0.0000
2+135.0792	14.78	14.82	14.82	+0.04	0.0000
2+140.0000	14.85	14.87	14.87	+0.02	0.0000

VIP STATION 2+200.0000

구 분	STATION	지반고	계획고	ELEV	절성고	증 거	구 배	길 이
BVC	2+140.0000	14.85	14.87	14.87	+0.02	0.0000	+0.9115	120.00
VIP	2+200.0000	15.25	15.23	15.41	-0.02	-0.1817		
EVC	2+260.0000	15.22	15.23	15.23	+0.01	0.0000	-0.3000	

중단곡선변화비율(K) = 99.05

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	증 거
2+140.0000	14.85	14.87	14.87	+0.02	0.0000
2+140.0000	14.85	14.87	14.87	+0.02	0.0000
2+157.2529	14.83	15.01	15.02	+0.18	-0.0150
2+160.0000	14.99	15.03	15.05	+0.04	-0.0202
2+179.2914	15.18	15.15	15.22	-0.03	-0.0779
2+180.0000	15.20	15.15	15.23	-0.05	-0.0808
2+200.0000	15.25	15.23	15.41	-0.02	-0.1817
2+201.3039	15.11	15.24	15.41	+0.13	-0.1739

2+220.0000	15.23	15.27	15.35	+0.04	-0.0808
2+223.3153	15.09	15.28	15.34	+0.19	-0.0679
2+240.0000	15.22	15.27	15.29	+0.05	-0.0202
2+260.0000	15.22	15.23	15.23	+0.01	0.0000
2+264.5057	15.22	15.22	15.22	-0.00	0.0000
2+280.0000	15.17	15.17	15.17	+0.00	0.0000
2+300.0000	15.11	15.11	15.11	+0.00	0.0000
2+320.0000	15.05	15.05	15.05	+0.00	0.0000
2+324.5050	15.04	15.04	15.04	+0.00	0.0000

EP

구 분	STATION	지반고	계획고	ELEV	절성고
E P	2+324.5050	15.04	15.04	15.04	+0.00

아. RAMP-F

BP

구 분	STATION	지반고	계획고	ELEV	절성고
BP	0+ 60.0000	13.68	13.68	13.68	+0.00

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	종 거
0+ 60.0000	13.68	13.68	13.68	+0.00	0.0000
0+ 40.0000	13.74	13.74	13.74	+0.00	0.0000
0+ 20.0000	13.80	13.80	13.80	-0.00	0.0000
0+ 0.0000	13.86	13.86	13.86	+0.00	0.0000

VIP STATION 0+ 40.0000

구 분	STATION	지반고	계획고	ELEV	절성고	종 거	구 배	길 이
BVC	0+ 10.0000	13.87	13.89	13.89	+0.02	0.0000	+0.3000	60.00
VIP	0+ 40.0000	13.94	14.05	13.98	+0.11	0.0707		
EVC	0+ 70.0000	14.37	14.35	14.35	-0.02	0.0000	+1.2433	

중단곡선변화비율(K) = 63.61

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	종 거
0+ 20.0000	13.87	13.93	13.92	+0.05	0.0079
0+ 20.0000	13.87	13.93	13.92	+0.05	0.0079

부산외곽순환 고속도로 건설공사 실시설계

0+ 40.0000	13.94	14.05	13.98	+0.11	0.0707
0+ 60.0000	14.25	14.24	14.23	-0.01	0.0079
0+ 80.0000	14.48	14.48	14.48	-0.00	0.0000
0+ 94.8000	14.65	14.66	14.66	+0.01	0.0000
0+ 95.8000	14.85	14.67	14.67	-0.18	0.0000
0+ 96.8000	14.85	14.69	14.69	-0.17	0.0000
0+100.0000	14.75	14.73	14.73	-0.02	0.0000
0+111.3000	13.99	14.87	14.87	+0.87	0.0000
0+111.3000	13.60	14.87	14.87	+1.27	0.0000
0+111.8000	13.61	14.87	14.87	+1.27	0.0000
0+111.8000	14.01	14.87	14.87	+0.87	0.0000
0+120.0000	13.23	14.98	14.98	+1.74	0.0000
0+140.0000	11.69	15.22	15.22	+3.53	0.0000
0+160.0000	10.72	15.47	15.47	+4.75	0.0000
0+180.0000	11.22	15.72	15.72	+4.50	0.0000
0+195.8000	11.73	15.92	15.92	+4.19	0.0000
0+195.8000	11.33	15.92	15.92	+4.59	0.0000
0+196.3000	11.33	15.92	15.92	+4.60	0.0000
0+196.3000	11.73	15.92	15.92	+4.20	0.0000
0+200.0000	11.73	15.97	15.97	+4.24	0.0000
0+220.0000	12.61	16.22	16.22	+3.61	0.0000
0+240.0000	12.55	16.47	16.47	+3.92	0.0000
0+255.9000	12.98	16.67	16.67	+3.69	0.0000
0+255.9000	12.57	16.67	16.67	+4.09	0.0000
0+256.4000	12.57	16.67	16.67	+4.10	0.0000
0+256.4000	12.97	16.67	16.67	+3.70	0.0000
0+260.0000	12.85	16.72	16.72	+3.86	0.0000

VIP STATION 0+320.0000

구 분	STATION	지반고	계획고	ELEV	절성고	종 거	구 배	길 이
BVC	0+260.0000	12.85	16.72	16.72	+3.87	0.0000	+1.2433	120.00
VIP	0+320.0000	14.06	17.01	17.46	+2.95	-0.4563		
EOC	0+380.0000	13.76	16.38	16.38	+2.62	0.0000	-1.7986	

종단곡선변화비율(K) = 39.45

측정(STA.)	지 반 고	계 획 고	ELEV	절 성 고	종 거
0+260.0000	12.85	16.72	16.72	+3.86	0.0000
0+260.0000	12.85	16.72	16.72	+3.86	0.0000
0+280.0000	13.09	16.91	16.96	+3.82	-0.0507
0+292.4000	13.43	16.99	17.12	+3.56	-0.1331
0+292.4000	12.80	16.99	17.12	-4.19	-0.1331

0+292.9000	12.80	16.99	17.13	+4.19	-0.1372
0+292.9000	13.43	16.99	17.13	+3.56	-0.1372
0+300.0000	13.61	17.01	17.21	+3.40	-0.2028
0+315.9000	14.13	17.02	17.41	+2.88	-0.3960
0+315.9000	13.73	17.02	17.41	+3.28	-0.3960
0+316.4000	13.73	17.01	17.42	+3.28	-0.4032
0+316.4000	14.13	17.01	17.42	+2.88	-0.4032
0+320.0000	14.06	17.01	17.46	+2.95	-0.4563
0+340.0000	14.30	16.90	17.10	+2.60	-0.2028
0+360.0000	14.50	16.69	16.74	+2.19	-0.0507
0+375.5000	13.86	16.46	16.46	+2.60	-0.0026
0+375.5000	13.46	16.46	16.46	+3.00	-0.0026
0+376.0000	13.46	16.45	16.46	+3.00	-0.0020
0+376.0000	13.86	16.45	16.46	+2.60	-0.0020
0+380.0000	13.76	16.38	16.38	+2.62	0.0000
0+383.0000	13.71	16.33	16.33	+2.62	0.0000
0+387.1000	13.61	16.26	16.26	+2.65	0.0000
0+393.9000	10.28	16.13	16.13	+5.85	0.0000
0+394.1000	10.28	16.13	16.13	+5.85	0.0000
0+394.2000	9.98	16.13	16.13	+6.14	0.0000
0+398.7000	9.98	16.05	16.05	+6.06	0.0000
0+398.8000	10.28	16.04	16.04	+5.76	0.0000
0+399.0000	10.28	16.04	16.04	+5.76	0.0000
0+400.0000	10.73	16.02	16.02	+5.29	0.0000
0+407.2000	13.78	15.89	15.89	+2.12	0.0000
0+420.0000	13.90	15.66	15.66	+1.76	0.0000
0+440.0000	12.68	15.30	15.30	+2.62	0.0000

VIP STATION 0+480.0000

구 분	STATION	지반고	계획고	ELEV	절성고	종 거	구 배	길 이
BVC	0+440.0000	12.68	15.30	15.30	+2.62	0.0000	-1.7986	80.00
VIP	0+480.0000	9.75	14.71	14.58	+4.96	0.1239		
EVC	0+520.0000	9.84	14.36	14.36	+4.52	0.0000	-0.5593	

종단곡선변화비율(K) = 64.55

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	종 거
0+440.0000	12.68	15.30	15.30	+2.62	0.0000
0+440.0000	12.68	15.30	15.30	+2.62	0.0000
0+452.5000	11.31	15.09	15.08	+3.78	0.0121
0+460.0000	11.13	14.98	14.94	+3.84	0.0310
0+480.0000	9.75	14.71	14.58	+4.96	0.1239

부산외곽순환 고속도로 건설공사 실시설계

0+480.3000	9.74	14.70	14.58	+4.97	0.1221
0+480.5000	9.24	14.70	14.58	+5.47	0.1208
0+481.2000	9.24	14.69	14.58	+5.46	0.1166
0+481.5000	9.74	14.69	14.58	+4.95	0.1148
0+482.2000	9.57	14.68	14.57	+5.12	0.1107
0+482.2000	9.17	14.68	14.57	+5.52	0.1107
0+483.0000	9.17	14.67	14.57	+5.51	0.1060
0+483.0000	9.57	14.67	14.57	+5.11	0.1060
0+484.3000	9.53	14.66	14.56	+5.13	0.0987
0+485.5000	9.15	14.65	14.55	+5.50	0.0922
0+493.5000	9.15	14.56	14.51	+5.41	0.0544
0+495.1000	9.40	14.55	14.50	+5.14	0.0480
0+497.7000	9.41	14.52	14.49	+5.12	0.0385
0+498.7000	9.65	14.52	14.48	+4.86	0.0351
0+500.0000	9.59	14.50	14.47	+4.91	0.0310
0+520.0000	9.84	14.36	14.36	+4.52	0.0000
0+540.0000	10.07	14.25	14.25	+4.18	0.0000

VIP STATION 0+692.7710

구 분	STATION	지반고	계획고	ELEV	절성고	종 거	구 배	길 이
BVC	0+542.7710	10.05	14.23	14.23	+4.18	0.0000	-0.5593	300.00
VIP	0+692.7710	11.51	16.04	13.39	+4.53	2.6472		
EVC	0+842.7710		23.14	23.14	+23.14	0.0000	+6.5000	

종단곡선변화비율(K) = 42.50

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	종 거
0+552.5000	9.96	14.19	14.18	+4.23	0.0111
0+552.5000	9.96	14.19	14.18	+4.23	0.0111
0+553.3000	9.78	14.19	14.17	+4.40	0.0130
0+554.5281	9.78	14.18	14.17	+4.40	0.0163
0+560.0000	9.74	14.17	14.14	+4.43	0.0349
0+564.0000	9.73	14.17	14.11	+4.43	0.0530
0+567.4000	8.09	14.17	14.10	+6.08	0.0714
0+569.9000	8.09	14.17	14.08	+6.08	0.0866
0+574.3000	10.48	14.17	14.06	+3.69	0.1170
0+580.0000	10.81	14.19	14.03	+3.38	0.1631
0+581.6000	10.82	14.19	14.02	+3.38	0.1774
0+582.4000	10.18	14.20	14.01	+4.02	0.1848
0+582.9000	10.18	14.20	14.01	+4.02	0.1895
0+583.5000	10.56	14.20	14.01	+3.64	0.1952
0+583.7153	10.59	14.20	14.00	+3.61	0.1972

제6장 선형계산부

0+600.0000	10.81	14.30	13.91	+3.49	0.3853
0+609.8629	10.73	14.39	13.86	+3.66	0.5296
0+620.0000	10.89	14.50	13.80	+3.61	0.7017
0+633.6659	10.84	14.70	13.73	+3.86	0.9720
0+640.0000	10.86	14.80	13.69	+3.94	1.1122
0+650.3000	10.84	14.99	13.63	+4.16	1.3604
0+651.7000	10.68	15.02	13.62	+4.35	1.3960
0+652.9000	10.78	15.04	13.62	+4.27	1.4270
0+652.9000	10.38	15.04	13.62	+4.67	1.4270
0+654.1000	10.38	15.07	13.61	+4.69	1.4582
0+654.1000	10.78	15.07	13.61	+4.29	1.4582
0+655.8085	10.84	15.10	13.60	+4.26	1.5033
0+656.4000	10.98	15.12	13.60	+4.14	1.5191
0+656.6000	10.38	15.12	13.60	+4.74	1.5245
0+658.1000	10.38	15.15	13.59	+4.77	1.5649
0+658.3000	10.98	15.16	13.59	+4.18	1.5703
0+660.0000	11.08	15.19	13.58	+4.11	1.6169
0+676.8933	11.57	15.60	13.48	+4.03	2.1165
0+680.0000	11.37	15.68	13.47	+4.31	2.2156
0+685.5000	11.16	15.83	13.44	+4.67	2.3968
0+686.0000	10.56	15.85	13.43	+5.29	2.4136
0+687.6000	10.56	15.89	13.42	+5.33	2.4679
0+688.0000	11.16	15.90	13.42	+4.74	2.4815
0+690.5000	10.96	15.97	13.41	+5.01	2.5677
0+690.5000	10.56	15.97	13.41	+5.41	2.5677
0+691.8000	10.56	16.01	13.40	+5.45	2.6131
0+691.8000	10.96	16.01	13.40	+5.05	2.6131
0+693.2000	11.75	16.05	13.42	+4.30	2.6321
0+697.4002	11.46	16.18	13.70	+4.72	2.4864
0+700.0000	11.84	16.26	13.86	+4.42	2.3982
0+717.6642	12.02	16.85	15.01	+4.83	1.8415
0+720.0000	11.97	16.94	15.16	+4.97	1.7734
0+732.5928	11.98	17.41	15.98	+5.43	1.4282
0+732.5930	12.00	17.41	15.98	+5.41	1.4282

EP

구 분	STATION	지반고	계획고	ELEV	절성고
E P	0+842.7710	0.00			

자. RAMP-G

BP

구 분	STATION	지반고	계획고	ELEV	절성고
BP	0+ 0.0000	54.55	52.34	52.34	-2.21

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	총 거
0+ 0.0000	54.55	52.34	52.34	-2.21	0.0000
0+ 1.7742	97.17	52.46	52.46	-44.72	0.0000
0+ 2.7000	54.85	52.52	52.52	-2.33	0.0000
0+ 4.1748	56.22	52.61	52.61	-3.61	0.0000
0+ 4.9078	56.27	52.66	52.66	-3.61	0.0000
0+ 6.6000	57.18	52.77	52.77	-4.41	0.0000
0+ 20.0000	62.41	53.64	53.64	-8.77	0.0000
0+ 24.4753	0.00	53.93	53.93	+53.93	0.0000
0+ 26.0479	65.65	54.04	54.04	-11.61	0.0000
0+ 26.0580	65.65	54.04	54.04	-11.61	0.0000
0+ 26.8017	65.72	54.08	54.08	-11.63	0.0000
0+ 27.2731	65.74	54.11	54.11	-11.62	0.0000
0+ 40.0000	70.20	54.94	54.94	-15.26	0.0000

VIP STATION 0+ 95.8058

구 분	STATION	지반고	계획고	ELEV	절성고	총 거	구 배	길 이
BVC	0+ 45.8059	12.84	55.32	55.32	+42.48	0.0000	+6.5000	100.00
VIP	0+ 95.8058	58.82	58.42	58.57	-0.40	-0.1484		
EVC	0+145.8058	12.86	61.23	61.23	+48.37	0.0000	+5.3125	

종단곡선변화비율(K) = 84.21

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	총 거
0+ 47.1058	0.00	55.40	55.40	+55.40	-0.0001
0+ 47.1058	0.00	55.40	55.40	+55.40	-0.0001
0+ 48.3601	72.43	55.49	55.49	-16.95	-0.0004
0+ 48.9590	72.45	55.52	55.52	-16.93	-0.0006
0+ 48.9591	72.45	55.52	55.52	-16.93	-0.0006
0+ 49.2996	72.46	55.55	55.55	-16.91	-0.0007
0+ 60.0000	73.19	56.23	56.24	-16.96	-0.0120
0+ 69.5380	0.00	56.83	56.86	+56.83	-0.0334

0+ 70.5128	70.74	56.89	56.93	-13.85	-0.0362
0+ 70.9131	70.74	56.91	56.95	-13.83	-0.0374
0+ 70.9132	70.74	56.91	56.95	-13.83	-0.0374
0+ 71.1541	70.74	56.93	56.97	-13.81	-0.0382
0+ 80.0000	67.62	57.47	57.54	-10.15	-0.0694
0+ 81.5838	0.00	57.57	57.65	+57.57	-0.0760
0+ 91.8055	0.00	58.18	58.31	+58.18	-0.1256
0+ 92.5468	60.77	58.23	58.36	-2.54	-0.1297
0+ 92.8029	60.77	58.24	58.37	-2.53	-0.1311
0+ 92.8030	60.77	58.24	58.37	-2.53	-0.1311
0+ 92.9683	60.77	58.25	58.39	-2.52	-0.1321
0+100.0000	55.93	58.67	58.79	+2.74	-0.1246
0+102.8000	54.46	58.83	58.94	+4.38	-0.1098
0+103.7000	54.46	58.88	58.99	+4.43	-0.1053
0+109.0000	56.33	59.19	59.27	+2.86	-0.0804
0+114.6530	56.45	59.51	59.57	+3.06	-0.0576
0+114.7613	56.45	59.52	59.58	+3.07	-0.0572
0+120.0000	56.02	59.82	59.85	+3.79	-0.0395
0+124.9973	0.00	60.09	60.12	+60.09	-0.0257
0+125.4305	0.00	60.12	60.14	+60.12	-0.0246
0+136.0172	0.00	60.70	60.71	+60.70	-0.0057
0+136.3829	63.67	60.72	60.73	-2.95	-0.0053
0+136.4683	63.67	60.72	60.73	-2.94	-0.0052
0+136.5336	63.67	60.73	60.73	-2.94	-0.0051
0+140.0000	65.03	60.92	60.92	-4.11	-0.0020
0+147.2367	0.00	61.30	61.30	+61.30	0.0000
0+158.0087	0.00	61.87	61.87	+61.87	0.0000
0+158.2154	65.30	61.89	61.89	-3.41	0.0000
0+158.2539	65.30	61.89	61.89	-3.41	0.0000
0+158.2858	65.30	61.89	61.89	-3.41	0.0000
0+160.0000	65.76	61.98	61.98	-3.78	0.0000
0+168.9658	0.00	62.46	62.46	+62.46	0.0000
0+168.9659	0.00	62.46	62.46	+62.46	0.0000
0+179.7280	0.00	63.03	63.03	+63.03	0.0000
0+179.8006	60.71	63.03	63.03	+2.33	0.0000
0+179.8008	60.71	63.03	63.03	+2.33	0.0000
0+179.8095	60.71	63.03	63.03	+2.33	0.0000
0+179.8172	60.71	63.03	63.03	+2.33	0.0000
0+180.0000	60.66	63.04	63.04	+2.38	0.0000
0+190.1676	0.00	63.58	63.58	+63.58	0.0000
0+190.1700	0.00	63.58	63.58	+63.58	0.0000
0+190.1741	0.00	63.58	63.58	+63.58	0.0000
0+200.0000	60.67	64.10	64.10	+3.43	0.0000
0+200.6983	60.75	64.14	64.14	+3.40	0.0000
0+220.0000	61.78	65.17	65.17	+3.39	0.0000

부산외곽순환 고속도로 건설공사 실시설계

0+220.7079	61.65	65.20	65.20	+3.56	0.0000
0+235.0000	58.99	65.96	65.96	+6.98	0.0000
0+237.0000	58.61	66.07	66.07	+7.46	0.0000
0+240.0000	57.97	66.23	66.23	+8.26	0.0000
0+241.2523	56.75	66.30	66.30	+9.54	0.0000
0+256.6489	52.71	67.11	67.11	+14.41	0.0000
0+260.0000	51.57	67.29	67.29	+15.72	0.0000
0+261.7790	50.69	67.39	67.39	+16.69	0.0000
0+280.0000	45.64	68.35	68.35	+22.71	0.0000
0+282.0000	44.77	68.46	68.46	+23.70	0.0000
0+282.2880	44.05	68.48	68.48	+24.43	0.0000
0+300.0000	37.11	69.42	69.42	+32.31	0.0000
0+302.7799	35.08	69.57	69.57	+34.48	0.0000
0+320.0000	28.27	70.48	70.48	+42.21	0.0000
0+323.2549	27.54	70.65	70.65	+43.11	0.0000
0+327.0000	25.64	70.85	70.85	+45.21	0.0000
0+333.5000	22.40	71.20	71.20	+48.79	0.0000
0+337.7000	22.40	71.42	71.42	+49.02	0.0000
0+338.7000	20.40	71.47	71.47	+51.07	0.0000
0+340.0000	20.40	71.54	71.54	+51.14	0.0000
0+343.5000	20.40	71.73	71.73	+51.33	0.0000
0+343.7137	20.26	71.74	71.74	+51.48	0.0000
0+345.5000	21.57	71.83	71.83	+50.27	0.0000
0+349.0000	23.03	72.02	72.02	+48.99	0.0000
0+350.0000	23.03	72.07	72.07	+49.05	0.0000
0+350.7000	22.41	72.11	72.11	+49.70	0.0000
0+360.0000	22.41	72.60	72.60	+50.19	0.0000
0+364.1565	22.40	72.83	72.83	+50.42	0.0000
0+369.5000	22.41	73.11	73.11	+50.70	0.0000
0+372.0000	24.52	73.24	73.24	+48.72	0.0000
0+374.9000	27.70	73.40	73.40	+45.70	0.0000
0+379.1000	27.70	73.62	73.62	+45.92	0.0000
0+380.0000	28.40	73.67	73.67	+45.27	0.0000
0+384.5838	32.52	73.91	73.91	+41.39	0.0000
0+394.7918	36.09	74.45	74.45	+38.36	0.0000
0+400.0000	38.15	74.73	74.73	+36.58	0.0000
0+404.9961	40.38	75.00	75.00	+34.62	0.0000
0+417.0000	45.17	75.63	75.63	+30.47	0.0000
0+420.0000	45.78	75.79	75.79	+30.01	0.0000
0+425.3936	47.60	76.08	76.08	+28.47	0.0000
0+440.0000	53.21	76.85	76.85	+23.64	0.0000
0+445.7770	55.55	77.16	77.16	+21.61	0.0000
0+460.0000	61.73	77.92	77.92	+16.18	0.0000
0+462.0000	62.30	78.02	78.02	+15.72	0.0000
0+466.1466	63.16	78.24	78.24	+15.08	0.0000

0+480.0000	67.25	78.98	78.98	+11.73	0.0000
0+486.5028	68.52	79.33	79.33	+10.81	0.0000
0+500.0000	71.10	80.04	80.04	+8.94	0.0000
0+506.8461	72.64	80.41	80.41	+7.77	0.0000
0+507.0000	72.58	80.41	80.41	+7.83	0.0000
0+507.2900	72.66	80.43	80.43	+7.77	0.0000
0+520.0000	76.16	81.10	81.10	+4.94	0.0000
0+527.1770	77.95	81.49	81.49	+3.53	0.0000
0+540.0000	82.38	82.17	82.17	-0.21	0.0000
0+547.4957	84.35	82.57	82.57	-1.79	0.0000
0+560.0000	88.22	83.23	83.23	-4.99	0.0000
0+567.8029	88.12	83.64	83.64	-4.48	0.0000
0+580.0000	88.09	84.29	84.29	-3.80	0.0000

VIP STATION 0+633.8575

구 분	STATION	지반고	계획고	ELEV	절성고	총 거	구 배	길 이
BVC	0+583.8575	87.14	84.50	84.50	-2.64	0.0000	+5.3125	100.00
VIP	0+633.8575	92.62	86.74	87.15	-5.88	-0.4141		
EVC	0+683.8575	92.27	88.15	88.15	-4.12	0.0000	+2.0000	

중단곡선변화비율(K) = 30.19

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	총 거
0+588.0989	86.09	84.72	84.72	-1.37	-0.0030
0+588.0989	86.09	84.72	84.72	-1.37	-0.0030
0+600.0000	85.88	85.31	85.35	-0.57	-0.0432
0+608.3842	86.81	85.70	85.80	-1.11	-0.0996
0+620.0000	90.03	86.20	86.42	-3.83	-0.2164
0+623.5914	90.92	86.35	86.61	-4.58	-0.2615
0+628.6592	92.02	86.54	86.88	-5.48	-0.3324
0+640.0000	93.32	86.96	87.28	-6.36	-0.3186
0+648.9243	93.14	87.25	87.45	-5.89	-0.2021
0+660.0000	92.95	87.58	87.68	-5.37	-0.0943
0+669.1801	92.45	87.82	87.86	-4.63	-0.0357
0+680.0000	92.21	88.07	88.08	-4.14	-0.0025
0+689.4269	92.36	88.26	88.26	-4.10	0.0000
0+700.0000	93.11	88.48	88.48	-4.63	0.0000
0+709.6651	93.76	88.67	88.67	-5.09	0.0000
0+720.0000	95.04	88.88	88.88	-6.16	0.0000
0+729.8954	95.92	89.07	89.07	-6.85	0.0000
0+740.0000	91.00	89.28	89.28	-1.72	0.0000
0+750.1177	97.66	89.48	89.48	-8.18	0.0000

0+ 19.8488	112.22	40.37	40.37	-71.85	0.0000
0+ 20.0000	40.37	40.37	40.37	-0.00	0.0000
0+ 20.1964	121.99	40.38	40.38	-81.61	0.0000
0+ 20.7475	41.18	40.40	40.40	-0.77	0.0000
0+ 22.0955	64.43	40.46	40.46	-23.97	0.0000
0+ 22.8068	0.00	40.49	40.49	+40.49	0.0000
0+ 24.9770	42.70	40.59	40.59	-2.11	0.0000
0+ 26.0138	40.65	40.63	40.63	-0.02	0.0000
0+ 27.1356	40.64	40.68	40.68	+0.04	0.0000
0+ 27.8798	111.56	40.71	40.71	-70.85	0.0000
0+ 37.0653	58.02	41.10	41.10	-16.92	0.0000
0+ 37.4955	45.06	41.12	41.12	-3.94	0.0000
0+ 37.8535	146.66	41.14	41.14	-105.52	0.0000
0+ 40.0000	41.21	41.23	41.23	+0.02	0.0000
0+ 40.0508	0.00	41.23	41.23	+41.23	0.0000
0+ 40.5535	0.00	41.25	41.25	+41.25	0.0000
0+ 40.9089	41.91	41.27	41.27	-0.64	0.0000
0+ 41.4329	0.00	41.29	41.29	+41.29	0.0000
0+ 42.0345	44.99	41.32	41.32	-3.67	0.0000
0+ 44.0528	110.18	41.41	41.41	-68.77	0.0000
0+ 44.0811	43.42	41.41	41.41	-2.01	0.0000
0+ 44.0812	43.42	41.41	41.41	-2.01	0.0000
0+ 44.4019	125.39	41.42	41.42	-83.97	0.0000
0+ 46.2998	73.82	41.50	41.50	-32.32	0.0000
0+ 47.0066	0.00	41.53	41.53	+41.53	0.0000
0+ 49.5319	0.00	41.64	41.64	+41.64	0.0000
0+ 51.2600	41.88	41.71	41.71	-0.17	0.0000
0+ 52.0133	41.61	41.75	41.75	+0.14	0.0000
0+ 52.1782	105.19	41.75	41.75	-63.43	0.0000
0+ 57.2802	104.77	41.97	41.97	-62.80	0.0000
0+ 59.9167	44.59	42.09	42.09	-2.51	0.0000
0+ 60.0000	41.98	42.09	42.09	+0.11	0.0000
0+ 60.6428	42.00	42.12	42.12	+0.11	0.0000
0+ 61.0896	42.69	42.14	42.14	-0.56	0.0000
0+ 64.2265	44.36	42.27	42.27	-2.09	0.0000
0+ 64.6971	0.00	42.29	42.29	+42.29	0.0000

VIP STATION 0+118.5151

구 분	STATION	지반고	계획고	ELEV	절성고	종 거	구 배	길 이
BVC	0+ 68.5151	0.00	42.46	42.46	+42.46	0.0000	+4.2950	100.00
VIP	0+118.5151	16.23	44.34	44.60	+28.11	-0.2589		
EOC	0+168.5151	57.68	45.72	45.72	-11.96	0.0000	+2.2238	

중단곡선변화비율(K) = 48.28

부산외곽순환 고속도로 건설공사 실시설계

0+760.0000	88.52	89.68	89.68	+1.15	0.0000
0+770.3317	100.34	89.88	89.88	-10.46	0.0000
0+780.0000	100.00	90.08	90.08	-9.92	0.0000
0+790.5393	99.94	90.29	90.29	-9.65	0.0000
0+800.0000	99.56	90.48	90.48	-9.09	0.0000
0+810.7424	98.50	90.69	90.69	-7.80	0.0000
0+820.0000	96.98	90.88	90.88	-6.10	0.0000
0+830.9431	94.31	91.10	91.10	-3.22	0.0000
0+835.9931	94.15	91.20	91.20	-2.95	0.0000
0+840.0000	93.88	91.28	91.28	-2.61	0.0000
0+851.1431	96.24	91.50	91.50	-4.74	0.0000
0+851.1906	96.03	91.50	91.50	-4.53	0.0000

EP

구 분	STATION	지반고	계획고	ELEV	절성고
E P	0+851.1906	96.03	91.50	91.50	-4.53

차. 기장 · 일광나들목 RAMP-C

BP

구 분	STATION	지반고	계획고	ELEV	절성고
BP	0+ 0.0000	39.51	39.51	39.51	+0.00

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	증 거
0+ 0.0000	39.51	39.51	39.51	+0.00	0.0000
0+ 2.4840	39.63	39.62	39.62	-0.01	0.0000
0+ 5.8333	48.99	39.76	39.76	-9.23	0.0000
0+ 6.7738	41.91	39.80	39.80	-2.10	0.0000
0+ 8.4534	0.00	39.88	39.88	+39.88	0.0000
0+ 9.4177	0.00	39.92	39.92	+39.92	0.0000
0+ 10.1882	80.30	39.95	39.95	-40.35	0.0000
0+ 10.4197	142.32	39.96	39.96	-102.36	0.0000
0+ 10.8711	86.85	39.98	39.98	-46.87	0.0000
0+ 11.6127	42.28	40.01	40.01	-2.27	0.0000
0+ 12.5757	0.00	40.05	40.05	+40.05	0.0000
0+ 13.9438	0.00	40.11	40.11	+40.11	0.0000
0+ 14.9225	46.31	40.15	40.15	-6.16	0.0000
0+ 15.8985	0.00	40.20	40.20	+40.20	0.0000
0+ 16.3913	0.00	40.22	40.22	+40.22	0.0000
0+ 16.7402	45.10	40.23	40.23	-4.86	0.0000
0+ 17.8486	39.69	40.28	40.28	+0.59	0.0000

부산외곽순환 고속도로 건설공사 실시설계

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	종 거
0+ 71.9231	0.00	42.60	42.60	+42.60	-0.0012
0+ 71.9231	0.00	42.60	42.60	+42.60	-0.0012
0+ 74.1164	43.36	42.69	42.70	-0.67	-0.0032
0+ 74.2621	103.34	42.70	42.70	-60.64	-0.0034
0+ 76.4290	42.46	42.79	42.80	+0.33	-0.0065
0+ 80.0000	42.77	42.94	42.95	+0.16	-0.0137
0+ 81.0834	43.49	42.98	43.00	-0.51	-0.0164
0+ 81.7219	44.18	43.00	43.02	-1.18	-0.0181
0+ 83.5061	45.02	43.08	43.10	-1.95	-0.0233
0+ 84.3256	107.89	43.11	43.13	-64.78	-0.0259
0+ 85.4835	44.44	43.15	43.18	-1.28	-0.0298
0+ 86.2249	107.68	43.18	43.22	-64.50	-0.0325
0+ 92.5899	0.00	43.43	43.49	+43.43	-0.0600
0+ 95.5566	45.25	43.54	43.62	-1.71	-0.0757
0+ 97.2707	0.00	43.61	43.69	+43.61	-0.0856
0+ 97.2833	84.99	43.61	43.69	-41.39	-0.0857
0+ 97.7369	0.00	43.62	43.71	+43.62	-0.0884
0+ 99.2497	0.00	43.68	43.78	+43.68	-0.0978
0+100.0000	43.56	43.71	43.81	+0.14	-0.1027
0+100.0628	43.58	43.71	43.81	+0.12	-0.1031
0+101.7309	44.17	43.77	43.88	-0.40	-0.1143
0+102.4449	105.85	43.79	43.91	-62.05	-0.1192
0+107.8887	45.13	43.99	44.15	-1.15	-0.1605
0+108.1454	45.14	44.00	44.16	-1.15	-0.1626
0+109.6349	0.00	44.05	44.22	+44.05	-0.1751
0+113.7000	0.00	44.18	44.40	+44.18	-0.2114
0+113.7110	89.71	44.19	44.40	-45.53	-0.2115
0+114.1046	0.00	44.20	44.41	+44.20	-0.2152
0+114.6216	112.55	44.22	44.44	-68.34	-0.2201
0+115.4177	0.00	44.24	44.47	+44.24	-0.2278
0+115.4886	65.52	44.24	44.47	-21.28	-0.2285
0+116.1231	46.09	44.27	44.50	-1.82	-0.2347
0+119.8158	0.00	44.39	44.63	+44.39	-0.2456
0+120.0000	44.22	44.39	44.64	+0.17	-0.2437
0+120.0402	0.00	44.39	44.64	+44.39	-0.2433
0+120.3767	0.00	44.40	44.64	+44.40	-0.2400
0+122.8375	44.31	44.48	44.70	+0.17	-0.2161
0+123.1299	44.74	44.49	44.71	-0.25	-0.2133
0+127.2830	44.42	44.62	44.80	+0.20	-0.1761
0+129.4895	65.11	44.69	44.85	-20.42	-0.1577
0+131.4585	45.49	44.75	44.89	-0.74	-0.1422
0+133.1150	0.00	44.80	44.93	+44.80	-0.1298
0+133.2355	0.00	44.80	44.93	+44.80	-0.1289
0+133.4298	0.00	44.81	44.93	+44.81	-0.1275

0+133.6980	45.43	44.82	44.94	-0.61	-0.1255
0+133.7210	0.00	44.82	44.94	+44.82	-0.1254
0+135.8512	44.15	44.88	44.99	+0.72	-0.1105
0+137.2549	0.00	44.92	45.02	+44.92	-0.1012
0+137.2550	0.00	44.92	45.02	-44.92	-0.1012
0+137.9414	97.77	44.94	45.04	-52.84	-0.0968
0+139.6998	47.76	44.99	45.07	-2.77	-0.0860
0+139.8516	0.00	44.99	45.08	+44.99	-0.0851
0+140.0000	44.74	45.00	45.08	-0.25	-0.0842
0+142.3741	98.96	45.06	45.13	-53.90	-0.0708
0+144.6823	44.80	45.13	45.19	-0.33	-0.0588
0+144.7503	0.00	45.13	45.19	+45.13	-0.0585
0+145.2555	46.04	45.14	45.20	-0.90	-0.0560
0+145.3681	45.36	45.14	45.20	-0.21	-0.0555
0+148.3376	0.00	45.22	45.27	-45.22	0.0422
0+148.9329	102.74	45.24	45.28	-57.50	-0.0397
0+150.5893	0.00	45.28	45.32	+45.28	-0.0333
0+154.7808	44.63	45.39	45.41	+0.76	-0.0195
0+155.3763	47.66	45.41	45.42	-2.26	-0.0179
0+157.3065	45.77	45.45	45.47	-0.32	-0.0130
0+160.0000	45.14	45.52	45.53	+0.38	-0.0075
0+161.1321	45.69	45.55	45.55	-0.14	-0.0056
0+165.5315	45.21	45.65	45.65	+0.43	-0.0009
0+167.4926	77.38	45.69	45.69	-31.68	-0.0001
0+169.0927	46.55	45.73	45.73	-0.82	0.0000
0+169.3732	82.35	45.73	45.73	-36.61	0.0000
0+172.9306	44.97	45.81	45.81	-0.84	0.0000
0+173.6576	61.31	45.83	45.83	-15.48	0.0000
0+174.6438	79.30	45.85	45.85	-33.45	0.0000
0+180.0000	46.46	45.97	45.97	-0.49	0.0000
0+180.0426	61.31	45.97	45.97	-15.34	0.0000
0+184.6278	46.35	46.07	46.07	-0.27	0.0000
0+185.1845	45.78	46.09	46.09	-0.30	0.0000
0+188.3854	0.00	46.16	46.16	+46.16	0.0000
0+188.4789	0.00	46.16	46.16	-46.16	0.0000
0+188.6658	0.00	46.16	46.16	+46.16	0.0000
0+189.1498	46.26	46.17	46.17	-0.08	0.0000
0+189.9699	0.00	46.19	46.19	-46.19	0.0000
0+190.2080	45.70	46.20	46.20	+0.50	0.0000
0+191.0992	39.09	46.22	46.22	-7.13	0.0000
0+193.0523	0.00	46.26	46.26	+46.26	0.0000
0+193.1355	0.00	46.26	46.26	-46.26	0.0000
0+193.3019	0.00	46.27	46.27	+46.27	0.0000
0+193.7331	47.35	46.28	46.28	-1.07	0.0000
0+194.4641	0.00	46.29	46.29	-46.29	0.0000

부산외곽순환 고속도로 건설공사 실시설계

0+195.2423	73.33	46.31	46.31	-27.02	0.0000
0+195.3855	46.50	46.31	46.31	-0.18	0.0000
0+195.4720	39.04	46.31	46.31	+7.27	0.0000
0+198.9833	0.00	46.39	46.39	+46.39	0.0000
0+199.3106	46.52	46.40	46.40	-0.12	0.0000
0+199.6867	61.55	46.41	46.41	-15.14	0.0000
0+200.0000	46.94	46.42	46.42	-0.53	0.0000
0+202.5497	0.00	46.47	46.47	+46.47	0.0000
0+203.1849	61.55	46.49	46.49	-15.07	0.0000
0+203.3970	46.46	46.49	46.49	+0.03	0.0000
0+203.4844	0.00	46.49	46.49	+46.49	0.0000
0+203.9205	0.00	46.50	46.50	+46.50	0.0000
0+204.7033	0.00	46.52	46.52	+46.52	0.0000
0+205.0502	0.00	46.53	46.53	+46.53	0.0000
0+206.5459	46.47	46.56	46.56	+0.09	0.0000
0+206.6253	0.00	46.56	46.56	+46.56	0.0000
0+207.0216	0.00	46.57	46.57	+46.57	0.0000
0+207.7336	0.00	46.59	46.59	+46.59	0.0000
0+208.0494	0.00	46.59	46.59	+46.59	0.0000
0+208.9984	0.00	46.62	46.62	+46.62	0.0000
0+209.0834	0.00	46.62	46.62	+46.62	0.0000
0+210.4878	44.08	46.65	46.65	+2.57	0.0000
0+211.2448	46.69	46.67	46.67	-0.02	0.0000
0+211.2449	46.69	46.67	46.67	-0.02	0.0000
0+211.6553	0.00	46.67	46.67	+46.67	0.0000
0+211.7332	0.00	46.68	46.68	+46.68	0.0000
0+213.0211	44.11	46.70	46.70	+2.59	0.0000
0+215.2032	47.43	46.75	46.75	-0.67	0.0000
0+217.3663	48.14	46.80	46.80	-1.34	0.0000
0+219.5264	68.28	46.85	46.85	-21.43	0.0000
0+220.0000	47.46	46.86	46.86	-0.60	0.0000
0+220.1618	47.69	46.86	46.86	-0.82	0.0000
0+221.6049	0.00	46.90	46.90	+46.90	0.0000
0+221.6847	0.00	46.90	46.90	+46.90	0.0000
0+221.9242	0.00	46.90	46.90	+46.90	0.0000
0+221.9671	47.71	46.90	46.90	-0.80	0.0000
0+223.0735	57.71	46.93	46.93	-10.78	0.0000
0+223.3108	0.00	46.93	46.93	+46.93	0.0000
0+223.3549	0.00	46.93	46.93	+46.93	0.0000
0+223.3851	0.00	46.94	46.94	+46.94	0.0000
0+223.6083	0.00	46.94	46.94	+46.94	0.0000
0+224.6804	57.71	46.96	46.96	-10.75	0.0000
0+224.9431	0.00	46.97	46.97	+46.97	0.0000
0+227.0550	-13.28	47.02	47.02	+60.30	0.0000
0+228.4051	-13.72	47.05	47.05	+60.77	0.0000

제6장 선형계산부

0+235.6713	48.03	47.21	47.21	-0.82	0.0000
0+236.5240	45.05	47.23	47.23	+2.18	0.0000
0+237.9926	47.83	47.26	47.26	-0.57	0.0000
0+238.7244	47.83	47.28	47.28	-0.55	0.0000
0+240.0000	47.83	47.30	47.30	-0.53	0.0000
0+241.1386	63.93	47.33	47.33	-16.60	0.0000
0+241.5960	63.99	47.34	47.34	-16.65	0.0000
0+241.6137	-1.19	47.34	47.34	+48.53	0.0000
0+241.7158	64.00	47.34	47.34	-16.66	0.0000
0+242.1263	56.28	47.35	47.35	-8.93	0.0000
0+242.1516	64.05	47.35	47.35	-16.70	0.0000
0+242.1684	-1.31	47.35	47.35	+48.67	0.0000
0+242.7650	0.00	47.37	47.37	+47.37	0.0000
0+243.2662	0.00	47.38	47.38	+47.38	0.0000
0+243.7837	47.99	47.39	47.39	-0.60	0.0000
0+244.2386	48.11	47.40	47.40	-0.71	0.0000
0+250.2496	46.76	47.53	47.53	+0.77	0.0000
0+250.4344	46.76	47.54	47.54	+0.78	0.0000
0+254.6986	2.12	47.63	47.63	+45.51	0.0000
0+254.7203	2.11	47.63	47.63	+45.52	0.0000
0+257.5140	48.26	47.69	47.69	-0.57	0.0000
0+257.5888	48.26	47.70	47.70	-0.57	0.0000
0+257.9658	48.26	47.70	47.70	-0.56	0.0000
0+260.0000	48.26	47.75	47.75	-0.51	0.0000
0+262.0898	48.14	47.80	47.80	-0.34	0.0000
0+262.3071	48.13	47.80	47.80	-0.33	0.0000
0+262.3269	0.00	47.80	47.80	+47.80	0.0000
0+262.5511	0.00	47.81	47.81	+47.81	0.0000
0+263.3300	0.00	47.82	47.82	+47.82	0.0000
0+263.5284	48.08	47.83	47.83	-0.25	0.0000
0+263.5829	0.00	47.83	47.83	+47.83	0.0000
0+263.9313	46.10	47.84	47.84	+1.74	0.0000
0+264.2010	46.10	47.84	47.84	+1.74	0.0000
0+265.5042	0.00	47.87	47.87	+47.87	0.0000
0+265.8164	0.00	47.88	47.88	+47.88	0.0000
0+266.7734	0.00	47.90	47.90	+47.90	0.0000
0+266.8699	5.25	47.90	47.90	+42.65	0.0000
0+267.1183	0.00	47.91	47.91	+47.91	0.0000
0+267.2173	5.21	47.91	47.91	+42.70	0.0000
0+267.7146	0.00	47.92	47.92	+47.92	0.0000
0+268.2885	0.00	47.93	47.93	+47.93	0.0000
0+268.6710	0.00	47.94	47.94	+47.94	0.0000
0+268.9592	0.00	47.95	47.95	+47.95	0.0000
0+269.2782	0.00	47.96	47.96	+47.96	0.0000
0+269.3578	0.00	47.96	47.96	+47.96	0.0000

부산외곽순환 고속도로 건설공사 실시설계

0+269.3775	0.00	47.96	47.96	+47.96	0.0000
0+269.4611	0.00	47.96	47.96	+47.96	0.0000
0+269.7860	0.00	47.97	47.97	+47.97	0.0000
0+269.8716	0.00	47.97	47.97	+47.97	0.0000
0+271.1503	0.00	48.00	48.00	+48.00	0.0000
0+271.9810	0.00	48.02	48.02	+48.02	0.0000
0+272.4445	0.00	48.03	48.03	+48.03	0.0000
0+272.4997	0.00	48.03	48.03	+48.03	0.0000
0+272.6034	0.00	48.03	48.03	+48.03	0.0000
0+272.9218	0.00	48.04	48.04	+48.04	0.0000
0+273.3724	0.00	48.05	48.05	+48.05	0.0000
0+273.8692	0.00	48.06	48.06	+48.06	0.0000
0+274.6669	48.24	48.08	48.08	-0.16	0.0000
0+275.1902	48.23	48.09	48.09	-0.14	0.0000
0+277.2123	48.80	48.13	48.13	-0.67	0.0000
0+277.7845	48.81	48.15	48.15	-0.66	0.0000
0+278.7604	48.10	48.17	48.17	+0.06	0.0000
0+279.0051	49.17	48.17	48.17	-1.00	0.0000
0+279.0964	48.19	48.17	48.17	-0.01	0.0000
0+279.3607	48.10	48.18	48.18	+0.08	0.0000
0+279.6098	49.17	48.19	48.19	-0.99	0.0000
0+280.0000	48.18	48.19	48.19	+0.01	0.0000
0+284.2494	48.04	48.29	48.29	+0.25	0.0000
0+288.3422	0.00	48.38	48.38	+48.38	0.0000
0+289.0900	0.00	48.40	48.40	+48.40	0.0000
0+290.0528	0.00	48.42	48.42	+48.42	0.0000
0+290.5400	48.46	48.43	48.43	-0.03	0.0000
0+290.8176	0.00	48.43	48.43	+48.43	0.0000
0+290.8999	48.65	48.44	48.44	-0.22	0.0000
0+291.3086	48.46	48.45	48.45	-0.02	0.0000
0+291.4758	65.58	48.45	48.45	-17.13	0.0000
0+291.6711	48.65	48.45	48.45	-0.20	0.0000
0+291.9519	0.00	48.46	48.46	+48.46	0.0000
0+292.0947	0.00	48.46	48.46	+48.46	0.0000
0+292.2507	65.59	48.47	48.47	-17.12	0.0000
0+292.5249	0.00	48.47	48.47	+48.47	0.0000
0+292.6689	0.00	48.48	48.48	+48.48	0.0000
0+292.7295	0.00	48.48	48.48	+48.48	0.0000
0+292.8730	0.00	48.48	48.48	+48.48	0.0000
0+293.3053	0.00	48.49	48.49	+48.49	0.0000
0+293.4499	0.00	48.49	48.49	+48.49	0.0000
0+295.0882	48.73	48.53	48.53	-0.20	0.0000
0+295.8758	48.73	48.55	48.55	-0.18	0.0000
0+299.6234	48.63	48.63	48.63	-0.00	0.0000
0+300.0000	48.63	48.64	48.64	+0.01	0.0000

0+304.6054	48.73	48.74	48.74	+0.01	0.0000
0+305.9648	49.19	48.77	48.77	-0.42	0.0000
0+306.6433	73.36	48.79	48.79	-24.57	0.0000
0+306.7209	49.19	48.79	48.79	-0.40	0.0000
0+307.3955	73.35	48.80	48.80	-24.54	0.0000
0+309.1049	49.66	48.84	48.84	-0.82	0.0000
0+309.8416	49.66	48.86	48.86	-0.80	0.0000
0+313.9644	49.77	48.95	48.95	-0.82	0.0000
0+314.0087	0.00	48.95	48.95	+48.95	0.0000
0+314.1900	0.00	48.95	48.95	+48.95	0.0000
0+314.6442	0.00	48.96	48.96	+48.96	0.0000
0+314.6671	49.77	48.97	48.97	-0.81	0.0000
0+314.7111	0.00	48.97	48.97	+48.97	0.0000
0+314.8265	0.00	48.97	48.97	+48.97	0.0000
0+314.8910	0.00	48.97	48.97	+48.97	0.0000
0+315.3420	0.00	48.98	48.98	+48.98	0.0000
0+315.5229	0.00	48.98	48.98	+48.98	0.0000
0+319.8590	49.64	49.08	49.08	-0.56	0.0000
0+320.0000	49.64	49.08	49.08	-0.56	0.0000
0+324.1733	49.93	49.18	49.18	-0.75	0.0000
0+324.7783	49.77	49.19	49.19	-0.58	0.0000
0+324.7989	49.93	49.19	49.19	-0.74	0.0000
0+325.0501	67.48	49.20	49.20	-18.28	0.0000
0+325.6691	67.47	49.21	49.21	-18.26	0.0000
0+329.8085	50.00	49.30	49.30	-0.70	0.0000
0+330.3916	50.00	49.32	49.32	-0.69	0.0000
0+335.0853	50.25	49.42	49.42	-0.83	0.0000
0+335.6324	50.22	49.43	49.43	-0.79	0.0000
0+339.9626	50.00	49.53	49.53	-0.47	0.0000
0+340.0000	50.00	49.53	49.53	-0.47	0.0000
0+344.3385	49.70	49.63	49.63	-0.08	0.0000
0+344.8426	49.70	49.64	49.64	-0.06	0.0000
0+344.8594	50.06	49.64	49.64	-0.42	0.0000
0+345.4549	45.65	49.65	49.65	+4.00	0.0000
0+345.9552	45.65	49.66	49.66	+4.01	0.0000
0+350.9674	50.92	49.77	49.77	-1.15	0.0000
0+351.4533	50.89	49.78	49.78	-1.10	0.0000
0+354.8703	51.25	49.86	49.86	-1.39	0.0000
0+355.3496	51.21	49.87	49.87	-1.34	0.0000
0+359.9991	50.47	49.97	49.97	-0.50	0.0000
0+360.0000	50.47	49.97	49.97	-0.50	0.0000
0+363.8122	50.58	50.06	50.06	-0.52	0.0000
0+365.0150	49.88	50.08	50.08	+0.20	0.0000
0+366.3301	17.44	50.11	50.11	+32.68	0.0000
0+380.0000	50.95	50.42	50.42	-0.54	0.0000

부산외곽순환 고속도로 건설공사 실시설계

0+385.1873	50.32	50.53	50.53	+0.22	0.0000
0+386.6423	18.88	50.57	50.57	+31.69	0.0000
0+400.0000	51.33	50.86	50.86	-0.47	0.0000
0+405.3597	50.69	50.98	50.98	+0.29	0.0000
0+406.9223	26.87	51.02	51.02	+24.15	0.0000
0+420.0000	51.72	51.31	51.31	-0.42	0.0000
0+425.5320	51.37	51.43	51.43	+0.06	0.0000
0+433.0966	0.00	51.60	51.60	+51.60	0.0000
0+434.0044	0.00	51.62	51.62	+51.62	0.0000
0+434.2061	0.00	51.62	51.62	+51.62	0.0000
0+434.8113	0.00	51.64	51.64	+51.64	0.0000
0+435.0130	0.00	51.64	51.64	+51.64	0.0000
0+440.0000	51.60	51.75	51.75	+0.15	0.0000
0+445.7043	51.74	51.88	51.88	+0.14	0.0000
0+460.0000	51.86	52.20	52.20	+0.34	0.0000
0+465.8769	52.17	52.33	52.33	+0.16	0.0000
0+480.0000	52.42	52.64	52.64	+0.22	0.0000
0+486.0961	52.56	52.78	52.78	+0.21	0.0000
0+500.0000	52.97	53.09	53.09	+0.11	0.0000
0+506.4110	52.95	53.23	53.23	+0.28	0.0000
0+520.0000	53.43	53.53	53.53	+0.10	0.0000
0+526.8404	53.52	53.68	53.68	+0.17	0.0000
0+540.0000	53.89	53.98	53.98	+0.08	0.0000
0+547.3530	53.97	54.14	54.14	+0.17	0.0000
0+560.0000	54.37	54.42	54.42	+0.05	0.0000
0+563.0133	0.00	54.49	54.49	+54.49	0.0000
0+563.5446	0.00	54.50	54.50	+54.50	0.0000
0+568.4226	54.46	54.61	54.61	+0.15	0.0000
0+580.0000	54.88	54.87	54.87	-0.02	0.0000
0+587.0544	0.00	55.02	55.02	+55.02	0.0000
0+587.5780	0.00	55.03	55.03	+55.03	0.0000
0+587.6827	0.00	55.04	55.04	+55.04	0.0000
0+589.4621	55.06	55.08	55.08	+0.02	0.0000
0+600.0000	55.30	55.31	55.31	+0.01	0.0000
0+610.3112	55.54	55.54	55.54	+0.00	0.0000
0+620.0000	55.77	55.76	55.76	-0.02	0.0000
0+631.0808	55.98	56.00	56.00	+0.03	0.0000
0+640.0000	56.20	56.20	56.20	-0.00	0.0000
0+651.7075	56.42	56.46	56.46	+0.04	0.0000
0+660.0000	56.65	56.64	56.64	-0.01	0.0000
0+671.7075	56.88	56.91	56.91	+0.03	0.0000
0+680.0000	57.09	57.09	57.09	-0.00	0.0000
0+691.7075	57.32	57.35	57.35	+0.03	0.0000
0+700.0000	57.53	57.53	57.53	+0.00	0.0000
0+711.7075	57.66	57.79	57.79	+0.14	0.0000

제6장 선형계산부

0+720.0000	57.96	57.98	57.98	+0.02	0.0000
0+740.0000	58.39	58.42	58.42	+0.03	0.0000
0+760.0000	58.84	58.87	58.87	+0.03	0.0000
0+780.0000	59.27	59.31	59.31	+0.04	0.0000
0+800.0000	59.72	59.76	59.76	+0.04	0.0000
0+820.0000	60.15	60.20	60.20	+0.05	0.0000
0+840.0000	60.63	60.65	60.65	+0.02	0.0000

EP

구 분	STATION	지반고	계획고	ELEV	절성고
E P	0+864.0032	0.00			

카. 기장 · 일광나들목 RAMP-D

BP

구 분	STATION	지반고	계획고	ELEV	절성고
BP	0- 40.0000	0.00			

VIP STATION 0+ 1.5493

구 분	STATION	지반고	계획고	ELEV	절성고	종 거	구 배	길 이
BVC	0- 28.4507		51.73	51.73	+51.73	0.0000	-2.2099	60.00
VIP	0+ 1.5493	48.29	51.19	51.07	+2.90	0.1206		
EVC	0+ 31.5493	51.16	50.89	50.89	-0.27	0.0000	-0.6022	

종단곡선변화비율(K) = 37.32

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	종 거
0+ 0.0000	48.59	51.21	51.10	+2.62	0.1084
0+ 1.5493	48.29	51.19	51.07	+2.90	0.1206
0+ 20.0000	51.93	50.97	50.96	-0.96	0.0179
0+ 20.1094	51.93	50.97	50.96	-0.96	0.0175
0+ 21.5526	51.76	50.96	50.95	-0.80	0.0134
0+ 40.0000	50.64	50.84	50.84	+0.19	0.0000
0+ 40.2670	50.64	50.83	50.83	+0.20	0.0000
0+ 41.5731	50.14	50.83	50.83	+0.69	0.0000
0+ 60.0000	44.91	50.72	50.72	+5.80	0.0000
0+ 60.5194	44.90	50.71	50.71	+5.81	0.0000

부산외곽순환 고속도로 건설공사 실시설계

0+ 61.6266	44.67	50.71	50.71	+6.03	0.0000
0+ 80.0000	36.02	50.59	50.59	+14.57	0.0000
0+ 80.8288	36.01	50.59	50.59	+14.58	0.0000
0+ 81.7333	36.29	50.58	50.58	+14.30	0.0000

VIP STATION 0+125.0000

구 분	STATION	지반고	계획고	ELEV	절성고	종 거	구 배	길 이
BVC	0+ 95.0000	31.79	50.50	50.50	+18.71	0.0000	-0.6022	60.00
VIP	0+125.0000	0.00	49.88	50.32	+49.88	-0.4441		
EVC	0+155.0000	44.25	48.37	48.37	+4.12	0.0000	-6.5233	

중단곡선변화비율(K) = 10.13

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	종 거
0+ 97.5000	30.95	50.49	50.49	+19.54	-0.0031
0+ 97.5000	30.95	50.49	50.49	+19.54	-0.0031
0+ 97.9000	30.45	50.48	50.49	+20.04	-0.0041
0+ 99.0000	29.84	50.47	50.48	+20.63	-0.0079
0+ 99.2000	30.34	50.47	50.48	+20.13	-0.0087
0+100.0000	30.19	50.46	50.47	+20.27	-0.0123
0+100.7000	30.25	50.45	50.47	+20.20	-0.0160
0+100.7000	29.95	50.45	50.47	+20.50	-0.0160
0+102.1487	29.89	50.44	50.46	+20.54	-0.0252
0+104.1000	29.83	50.41	50.45	+20.58	-0.0409
0+104.5000	29.33	50.40	50.45	+21.07	-0.0445
0+106.0000	29.33	50.38	50.44	+21.05	-0.0597
0+106.4000	29.83	50.37	50.44	+20.54	-0.0641
0+107.2000	27.79	50.36	50.43	+22.57	-0.0734
0+107.2000	26.68	50.36	50.43	+23.67	-0.0734
0+109.4000	26.68	50.32	50.42	+23.63	-0.1023
0+109.4000	27.79	50.32	50.42	+22.53	-0.1023
0+116.4000	30.25	50.15	50.38	+19.90	-0.2260
0+117.8000	30.75	50.11	50.37	+19.36	-0.2565
0+120.0000	31.12	50.05	50.35	+18.92	-0.3084
0+120.1194	0.00	50.04	50.35	+50.04	-0.3113
0+120.7541	0.00	50.02	50.35	+50.02	-0.3273
0+120.9658	0.00	50.02	50.35	+50.02	-0.3327
0+121.6753	31.09	49.99	50.34	+18.90	-0.3511
0+122.5410	49.98	49.96	50.34	-0.01	-0.3743
0+123.0864	35.16	49.95	50.34	+14.79	-0.3892
0+123.8300	0.00	49.92	50.33	+49.92	-0.4101
0+126.4922	0.00	49.83	50.23	+49.83	-0.4010

0+131.9000	39.46	49.61	49.87	+10.15	-0.2633
0+134.6000	39.96	49.49	49.70	+9.53	-0.2053
0+140.0000	41.77	49.23	49.35	+7.46	-0.1110
0+141.5866	41.74	49.15	49.24	+7.41	-0.0888
0+141.9840	50.69	49.13	49.22	-1.55	-0.0836
0+144.4981	42.58	49.00	49.05	+6.42	-0.0544
0+160.0000	45.05	48.04	48.04	+2.99	0.0000
0+161.2906	45.04	47.96	47.96	+2.92	0.0000
0+161.4472	0.00	47.95	47.95	+47.95	0.0000
0+163.5029	0.00	47.81	47.81	+47.81	0.0000
0+166.0478	45.45	47.65	47.65	+2.20	0.0000
0+180.0000	47.67	46.74	46.74	-0.94	0.0000
0+180.8612	47.67	46.68	46.68	-0.99	0.0000
0+187.6822	49.14	46.24	46.24	-2.91	0.0000
0+200.0000	49.96	45.43	45.43	-4.53	0.0000
0+200.6647	49.96	45.39	45.39	-4.57	0.0000
0+200.6909	50.03	45.39	45.39	-4.65	0.0000
0+209.3792	49.91	44.82	44.82	-5.09	0.0000
0+220.0000	48.83	44.13	44.13	-4.70	0.0000
0+221.6812	48.80	44.02	44.02	-4.78	0.0000
0+226.8450	0.00	43.68	43.68	+43.68	0.0000
0+228.8235	0.00	43.55	43.55	+43.55	0.0000
0+229.1536	0.00	43.53	43.53	+43.53	0.0000
0+229.2637	0.00	43.52	43.52	+43.52	0.0000
0+231.2471	47.91	43.39	43.39	-4.51	0.0000
0+240.0000	45.24	42.82	42.82	-2.42	0.0000
0+242.5000	44.20	42.66	42.66	-1.54	0.0000
0+253.2000	38.38	41.96	41.96	+3.58	0.0000
0+256.9000	38.36	41.72	41.72	+3.36	0.0000
0+258.7000	38.41	41.60	41.60	+3.20	0.0000
0+259.2000	38.54	41.57	41.57	+3.03	0.0000
0+260.0000	38.76	41.52	41.52	+2.75	0.0000
0+264.2396	40.79	41.24	41.24	+0.45	0.0000
0+264.8000	42.61	41.20	41.20	-1.41	0.0000
0+268.7000	43.56	40.95	40.95	-2.61	0.0000
0+280.0000	41.14	40.21	40.21	-0.93	0.0000
0+283.4000	40.14	39.99	39.99	-0.15	0.0000
0+290.1000	39.75	39.55	39.55	-0.20	0.0000
0+291.1000	39.75	39.49	39.49	-0.26	0.0000
0+292.0000	38.78	39.43	39.43	+0.65	0.0000
0+300.0000	38.41	38.91	38.91	+0.50	0.0000
0+301.9984	47.39	38.78	38.78	-8.61	0.0000
0+304.8238	29.44	38.59	38.59	+9.15	0.0000
0+311.3024	47.44	38.17	38.17	-9.27	0.0000
0+320.0000	37.34	37.60	37.60	+0.26	0.0000

VIP STATION 0+340.0000

구 분	STATION	지반고	계획고	ELEV	절성고	종 거	구 배	길 이
BVC	0+320.0000	37.34	37.60	37.60	+0.26	0.0000	-6.5233	40.00
VIP	0+340.0000	36.26	36.34	36.30	+0.08	0.0440		
EVC	0+360.0000	35.14	35.17	35.17	+0.03	0.0000	-5.6440	

중단곡선변화비율(K) = 45.49

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	종 거
0+320.0000	37.34	37.60	37.60	+0.26	0.0000
0+320.0000	37.34	37.60	37.60	+0.26	0.0000
0+336.7148	2.65	36.54	36.51	+33.89	0.0307
0+337.9197	44.97	36.47	36.43	-8.50	0.0353
0+340.0000	36.26	36.34	36.30	+0.08	0.0440
0+346.6800	0.00	35.94	35.92	+35.94	0.0195
0+350.2817	52.23	35.73	35.72	-16.50	0.0104
0+351.5956	0.00	35.65	35.64	+35.65	0.0078
0+358.5718	47.32	35.25	35.25	-12.07	0.0002
0+359.7423	0.00	35.18	35.18	+35.18	0.0000
0+360.0000	35.14	35.17	35.17	+0.03	0.0000
0+371.8673	43.95	34.50	34.50	-9.45	0.0000
0+380.0000	34.04	34.04	34.04	+0.00	0.0000
0+381.5963	37.15	33.95	33.95	-3.20	0.0000
0+387.1591	0.00	33.64	33.64	+33.64	0.0000
0+387.9298	0.00	33.59	33.59	+33.59	0.0000
0+388.4453	0.00	33.56	33.56	+33.56	0.0000
0+398.6093	73.43	32.99	32.99	-40.44	0.0000
0+400.0000	32.89	32.91	32.91	+0.02	0.0000
0+411.5517	32.20	32.26	32.26	+0.06	0.0000

EP

구 분	STATION	지반고	계획고	ELEV	절성고
E P	0+411.5517	32.20	32.26	32.26	+0.06

타. 군도21호선

BP

구 분	STATION	지반고	계획고	ELEV	절성고
BP	0+ 0.0000	155.38	154.79	154.79	-0.59

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	종 거
0+ 0.0000	155.38	154.79	154.79	-0.59	0.0000
0+ 18.1380	152.87	152.84	152.84	-0.04	0.0000
0+ 20.0000	153.00	152.64	152.64	-0.36	0.0000
0+ 40.0000	150.65	150.48	150.48	-0.17	0.0000
0+ 42.1378	150.36	150.25	150.25	-0.11	0.0000
0+ 60.0000	143.19	148.33	148.33	+5.14	0.0000

VIP STATION 0+ 80.0000

구 분	STATION	지반고	계획고	ELEV	절성고	종 거	구 배	길 이
BVC	0+ 62.5000	141.96	148.06	148.06	+6.10	0.0000	-10.7725	35.00
VIP	0+ 80.0000	130.13	146.08	146.17	+15.95	-0.0975		
EVC	0+ 97.5000	132.73	143.90	143.90	+11.17	0.0000	-13.0000	

중단곡선변화비율(K) = 15.71

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	종 거
0+ 63.9995	141.23	147.90	147.90	+6.66	-0.0007
0+ 63.9995	141.23	147.90	147.90	+6.66	-0.0007
0+ 80.0000	130.13	146.08	146.17	+15.95	-0.0975
0+ 84.1823	129.59	145.57	145.63	+15.98	-0.0564
0+ 99.2046	133.14	143.68	143.68	+10.54	0.0000
0+100.0000	132.59	143.57	143.57	+10.98	0.0000
0+101.2076	132.27	143.42	143.42	+11.15	0.0000
0+104.2122	136.85	143.03	143.03	+6.17	0.0000
0+108.2182	137.57	142.50	142.50	+4.93	0.0000
0+120.0000	136.01	140.97	140.97	+4.97	0.0000
0+124.2418	134.59	140.42	140.42	+5.83	0.0000
0+133.2448	130.79	139.25	139.25	+8.46	0.0000
0+140.0000	129.19	138.37	138.37	+9.18	0.0000
0+141.7077	128.68	138.15	138.15	+9.47	0.0000
0+144.2495	127.35	137.82	137.82	+10.48	0.0000
0+160.0000	123.18	135.77	135.77	+12.60	0.0000
0+161.3206	123.19	135.60	135.60	+12.41	0.0000
0+161.7190	122.34	135.55	135.55	+13.21	0.0000
0+164.3558	120.22	135.21	135.21	+14.99	0.0000
0+180.0000	114.90	133.17	133.17	+18.28	0.0000
0+181.7783	114.09	132.94	132.94	+18.85	0.0000
0+184.7200	113.93	132.56	132.56	+18.63	0.0000
0+186.8398	115.08	132.28	132.28	+17.20	0.0000
0+200.0000	110.97	130.57	130.57	+19.60	0.0000

부산외곽순환 고속도로 건설공사 실시설계

0+201.8799	110.32	130.33	130.33	+20.00	0.0000
0+205.1004	111.02	129.91	129.91	+18.89	0.0000
0+205.1555	109.38	129.90	129.90	+20.52	0.0000
0+206.0994	108.66	129.78	129.78	+21.12	0.0000
0+206.4589	109.72	129.73	129.73	+20.01	0.0000
0+207.5421	108.29	129.59	129.59	+21.31	0.0000
0+208.0712	114.02	129.52	129.52	+15.50	0.0000
0+218.5143	108.44	128.17	128.17	+19.73	0.0000
0+220.0000	108.70	127.97	127.97	+19.27	0.0000
0+225.5910	109.82	127.25	127.25	+17.43	0.0000
0+229.9456	113.37	126.68	126.68	+13.31	0.0000
0+240.0000	109.26	125.37	125.37	+16.12	0.0000
0+241.8946	109.24	125.13	125.13	+15.89	0.0000
0+246.0265	109.55	124.59	124.59	+15.03	0.0000
0+251.6564	109.70	123.86	123.86	+14.16	0.0000
0+260.0000	109.13	122.77	122.77	+13.65	0.0000
0+265.2749	108.28	122.09	122.09	+13.80	0.0000
0+266.4620	108.70	121.93	121.93	+13.24	0.0000
0+274.5093	115.09	120.89	120.89	+5.80	0.0000
0+280.0000	107.02	120.17	120.17	+13.15	0.0000
0+286.6601	108.55	119.31	119.31	+10.76	0.0000
0+299.3413	110.99	117.66	117.66	+6.66	0.0000
0+300.0000	111.14	117.57	117.57	+6.43	0.0000
0+306.6961	111.97	116.70	116.70	+4.74	0.0000
0+314.4509	113.81	115.69	115.69	+1.89	0.0000

VIP STATION 0+354.1861

구 분	STATION	지반고	계획고	ELEV	절성고	종 거	구 배	길 이
BVC	0+319.1862	113.74	115.08	115.08	+1.34	0.0000	-13.0000	70.00
VIP	0+354.1861	114.71	111.04	110.53	-3.67	0.5160		
EVC	0+389.1862	119.66	108.04	108.04	-11.62	0.0000	-7.1028	

중단곡선변화비율(K) = 11.87

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	종 거
0+320.0000	113.73	114.97	114.97	+1.24	0.0003
0+320.0000	113.73	114.97	114.97	+1.24	0.0003
0+327.1460	113.27	114.07	114.04	+0.80	0.0267
0+331.2538	113.00	113.57	113.51	+0.57	0.0613
0+339.9479	113.20	112.56	112.38	-0.64	0.1816
0+340.0000	113.20	112.56	112.37	-0.65	0.1825
0+343.8359	113.71	112.13	111.87	-1.58	0.2559

0+348.6958	114.09	111.61	111.24	-2.48	0.3668
0+355.1184	114.81	110.95	110.46	-3.86	0.4889
0+360.0000	115.57	110.47	110.12	-5.09	0.3588
0+370.2669	117.56	109.54	109.39	-8.02	0.1508
0+380.0000	118.91	108.73	108.70	-10.18	0.0355
0+390.3885	119.76	107.96	107.96	-11.80	0.0000
0+400.0000	119.30	107.27	107.27	-12.03	0.0000
0+411.3677	117.32	106.47	106.47	-10.86	0.0000
0+420.0000	115.75	105.85	105.85	-9.90	0.0000

VIP STATION 0+459.8363

구 분	STATION	지반고	계획고	ELEV	절성고	종 거	구 배	길 이
BVC	0+434.8363	113.44	104.80	104.80	-8.64	0.0000	-7.1028	50.00
VIP	0+459.8363	110.12	102.82	103.02	-7.30	-0.2010		
EVC	0+484.8363	104.18	100.45	100.45	-3.73	0.0000	-10.3183	

종단곡선변화비율(K) = 15.55

측점(STA.)	지 반 고	계 획 고	ELEV	절 성 고	종 거
0+437.3158	113.05	104.62	104.62	-8.43	-0.0020
0+437.3158	113.05	104.62	104.62	-8.43	-0.0020
0+440.0000	112.78	104.43	104.43	-8.36	-0.0086
0+460.0000	110.10	102.81	103.01	-7.29	-0.1983
0+474.5173	106.95	101.48	101.51	-5.47	-0.0342
0+480.0000	105.32	100.94	100.94	-4.38	-0.0075
0+500.0000	100.62	98.88	98.88	-1.74	0.0000
0+512.3557	98.26	97.61	97.61	-0.65	0.0000
0+520.0000	96.85	96.82	96.82	-0.04	0.0000
0+540.0000	95.01	94.75	94.75	-0.26	0.0000
0+550.1941	93.80	93.70	93.70	-0.10	0.0000
0+560.0000	92.72	92.69	92.69	-0.03	0.0000
0+580.0000	90.61	90.63	90.63	+0.02	0.0000
0+588.0324	125.19	89.80	89.80	-35.39	0.0000
0+600.0000	88.53	88.56	88.56	+0.03	0.0000
0+620.0000	86.49	86.50	86.50	+0.01	0.0000
0+631.1439	130.72	85.35	85.35	-45.37	0.0000
0+640.0000	84.57	84.43	84.43	-0.14	0.0000
0+650.1441	83.40	83.39	83.39	-0.02	0.0000

EP

구 분	STATION	지반고	계획고	ELEV	절성고
E P	0+650.2230	0.00			

제7장 과업수행 참여자 명단

제 7 장 과업수행 참여자 명단

- 용역명 : 부산외곽순환 고속도로 건설공사 실시설계용역(제12공구)
- 용역기간 : 2008. 12. 18 ~ 2010. 6. 9 (총507일)

경 력 확 인 서 (기술경력 확인용)									
연번	성명	주민등록번호	참여기간	기술분야	전문분야	담당업무	공사종류	직위	비고
1	박재철	480211-1691138	08.12.18~08.12.22(5일) 09. 1. 2~09.12.20(353일) 10. 1.12~10. 6. 9(149일) (507일)	토목	도로및공항	분야책임	고속도로	이사	이산
2	남상호	670509-1813013	08.12.18~08.12.22(5일) 09. 1. 2~09. 2.28(50일) (55일)	토목	도로및공항	설계담당	고속도로	이사	이산
3	전영권	610815-1117514	09. 3. 1~09.12.20(303일) 10. 1.12~10. 6. 9(149일) (452일)	토목	도로및공항	설계담당	고속도로	이사	이산
4	손영한	570419-1001210	08.12.18~08.12.22(5일) 09. 1. 2~09.12.20(353일) 10. 1.12~10. 6. 9(149일) (507일)	토목	도로및공항	설계담당	고속도로	이사	이산
5	위덕환	630816-1567511	08.12.18~08.12.22(5일) 09. 1. 2~09.12.20(353일) 10. 1.12~10. 6. 9(149일) (507일)	토목	도로및공항	설계담당	고속도로	이사	이산
6	전성열	550730-1457210	08.12.18~08.12.22(5일) 09. 1. 2~09.12.20(353일) 10. 1.12~10. 6. 9(149일) (507일)	토목	도로및공항	설계담당	고속도로	이사	이산
7	한상백	650225-1397241	08.12.18~08.12.22(5일) 09. 1. 2~09.12.20(353일) 10. 1.12~10. 6. 9(149일) (507일)	토목	도로및공항	설계담당	고속도로	이사	이산
8	이동원	691118-1774621	08.12.18~08.12.22(5일) 09. 1. 2~09.12.20(353일) 10. 1.12~10. 6. 9(149일) (507일)	토목	도로및공항	설계담당	고속도로	부장	이산
9	이지용	710417-1030720	08.12.18~08.12.22(5일) 09. 1. 2~09.12.20(353일) 10. 1.12~10. 6. 9(149일) (507일)	토목	도로및공항	설계담당	고속도로	부장	이산
10	윤동진	741001-1326416	08.12.18~08.12.22(5일) 09. 1. 2~09.12.20(353일) 10. 1.12~10. 6. 9(149일) (507일)	토목	도로및공항	설계담당	고속도로	차장	이산

연번	성명	주민등록번호	참여기간	기술분야	전문분야	담당업무	공사종류	직위	비고
11	최대웅	750219-1683511	08.12.18~08.12.22(5일) 09. 1. 2~09.12.20(353일) 10. 1.12~10. 6. 9(149일) (507일)	토목	도로및공항	설계담당	고속도로	차장	이산
12	김건중	731005-1057111	08.12.18~08.12.22(5일) 09. 1. 2~09.12.20(353일) 10. 1.12~10. 6. 9(149일) (507일)	토목	도로및공항	설계담당	고속도로	과장	이산
13	김지훈	761108-1066820	08.12.18~08.12.22(5일) 09. 1. 2~09.12.20(353일) 10. 1.12~10. 6. 9(149일) (507일)	토목	도로및공항	설계담당	고속도로	과장	이산
14	한석천	801102-1017514	09. 7.22~09.12.20(151일) 10. 1.12~10. 6. 9(149일) (300일)	토목	도로및공항	설계담당	고속도로	사원	이산
15	손영식	650321-1149521	08.12.18~08.12.22(5일) 09. 1. 2~09.12.20(353일) 10. 1.12~10. 6. 9(149일) (507일)	토목	토목구조	분야책임	고속도로	이사	이산
16	정우훈	600315-1046627	09. 7.22~09.12.20(151일) 10. 1.12~10. 6. 9(149일) (300일)	토목	토목구조	설계담당	고속도로	이사	이산
17	정달영	661104-1120021	09. 7.22~09.12.20(151일) 10. 1.12~10. 6. 9(149일) (300일)	토목	토목구조	설계담당	고속도로	부장	이산
18	정희대	700208-1000219	09. 7.22~09.12.20(151일) 10. 1.12~10. 6. 9(149일) (300일)	토목	토목구조	설계담당	고속도로	부장	이산
19	정훈	720713-1149111	09. 7.22~09.12.20(151일) 10. 1.12~10. 6. 9(149일) (300일)	토목	토목구조	설계담당	고속도로	차장	이산
20	최승환	720720-1482517	09. 7.22~09.12.20(151일) 10. 1.12~10. 6. 9(149일) (300일)	토목	토목구조	설계담당	고속도로	차장	이산
21	정경택	770325-1649025	09. 7.22~09.12.20(151일) 10. 1.12~10. 6. 9(149일) (300일)	토목	토목구조	설계담당	고속도로	과장	이산