

관 리 번 호

사 본 번 호

고속국도 제600호선 부산외곽순환 건설공사 일 반 보 고 서 [I]

제12공구 : 이곡 ~ 화전
[준 공]

2017. 12

제6장 선형 계산부

6.1 평면선형 계산서

6.2 종단선형 계산서

제 6 장 선형계산부

6.1 평면선형 계산서

6.1.1 본선

가. STA. 0+000~STA.0+210(일반구간,기장방향)

BP

BP 좌표	X	198338.84277	방위각	107° 7' 9.61"
	Y	214380.68912		

IP1 (좌향)

구 분		원 곡 선	I P좌표	X	198264.96134
				Y	214620.55638
방위각	1	107° 7' 9.61"	원 중심좌표	X	203117.31137
	2	101° 22' 19.02"		Y	215852.50360

I A	5° 44' 50.59"	R	5000.00000	D T	250.98759
T L	250.98753	S L	6.29551	C L	501.55407
S D	0.00006	SPX	198271.06326	SPY	214622.10558

구분	누가거리	X 좌표	Y 좌표
B C	-2299.99994	198338.84275	214380.68917
E C	-1798.44587	198215.47227	214866.61648

구 분	누가거리	측점(STA.)	X좌표	Y좌표	방위각
BP	-2300.00000	-2-300.00000	198338.84277	214380.68912	107° 7' 9.61"
BC	-2299.99994	-2-299.99994	198338.84275	214380.68917	107° 7' 9.61"
	-2294.50000	-2-294.50000	198337.22667	214385.94632	107° 3' 22.72"
	-2288.20000	-2-288.20000	198335.38260	214391.97039	106° 59' 2.83"
	-2280.00000	-2-280.00000	198332.99376	214399.81472	106° 53' 24.56"
	-2260.00000	-2-260.00000	198327.22129	214418.96356	106° 39' 39.50"
	-2242.50000	-2-242.50000	198322.23325	214435.73762	106° 27' 37.57"
	-2241.90000	-2-241.90000	198322.06327	214436.31304	106° 27' 12.82"
	-2240.40000	-2-240.40000	198321.63863	214437.75168	106° 26' 10.94"
	-2240.40000	-2-240.40000	198321.63863	214437.75168	
	-2240.00000	-2-240.00000	198321.52547	214438.13534	106° 25' 54.44"
	-2220.00000	-2-220.00000	198315.90637	214457.32974	106° 12' 9.38"
	-2207.50000	-2-207.50000	198312.43345	214469.33760	106° 3' 33.72"

부산외곽순환 고속도로 건설공사 실시설계

	-2205.00000	-2-205.00000	198311.74246	214471.74022	106° 1' 50.58"
	-2200.00000	-2-200.00000	198310.36410	214476.54647	105° 58' 24.32"
	-2180.00000	-2-180.00000	198304.89875	214495.78522	105° 44' 39.26"
	-2160.00000	-2-160.00000	198299.51039	214515.04567	105° 30' 54.20"
	-2140.00000	-2-140.00000	198294.19911	214534.32752	105° 17' 9.14"
	-2120.00000	-2-120.00000	198288.96501	214553.63047	105° 3' 24.08"
	-2100.00000	-2-100.00000	198283.80815	214572.95419	104° 49' 39.02"
	-2080.00000	-2- 80.00000	198278.72864	214592.29839	104° 35' 53.96"
	-2060.00000	-2- 60.00000	198273.72654	214611.66275	104° 22' 8.91"
	-2052.00000	-2- 52.00000	198271.74739	214619.41407	104° 16' 38.88"
	-2040.00000	-2- 40.00000	198268.80194	214631.04697	104° 8' 23.85"
	-2020.00000	-2- 20.00000	198263.95491	214650.45072	103° 54' 38.79"
	-2000.00000	-2+ 0.00000	198259.18554	214669.87371	103° 40' 53.73"
	-1980.00000	-1-980.00000	198254.49390	214689.31563	103° 27' 8.67"
	-1960.00000	-1-960.00000	198249.88006	214708.77615	103° 13' 23.61"
	-1940.00000	-1-940.00000	198245.34410	214728.25497	102° 59' 38.55"
	-1920.00000	-1-920.00000	198240.88610	214747.75178	102° 45' 53.49"
	-1900.00000	-1-900.00000	198236.50611	214767.26627	102° 32' 8.43"
	-1890.00000	-1-890.00000	198234.34540	214777.03004	102° 25' 15.90"
	-1880.00000	-1-880.00000	198232.20422	214786.79812	102° 18' 23.37"
	-1868.00000	-1-868.00000	198229.66060	214798.52544	102° 10' 8.34"
	-1867.80000	-1-867.80000	198229.61844	214798.72094	102° 10' 0.09"
	-1860.00000	-1-860.00000	198227.98049	214806.34702	102° 4' 38.31"
	-1840.00000	-1-840.00000	198223.83499	214825.91266	101° 50' 53.25"
	-1835.00000	-1-835.00000	198222.81085	214830.80665	101° 47' 26.99"
	-1820.00000	-1-820.00000	198219.76779	214845.49473	101° 37' 8.19"
	-1800.00000	-1-800.00000	198215.77894	214865.09291	101° 23' 23.14"
EC	-1798.44587	-1-798.44587	198215.47227	214866.61648	101° 22' 19.02"

IP2 (좌향)

구 분		원 곡 선	I P좌표	X	197909.95307
				Y	216385.66049
방위각	1	101° 22' 19.02"	원 중심 좌표	X	199964.67421
	2	74° 33' 42.48"		Y	216312.71866

I A	26° 48' 36.55"	R	2000.00000	D T	1800.45089
T L	476.65445	S L	56.01543	C L	935.85084
S D	1072.80891	SPX	197965.93324	SPY	216383.67321

구분	누가거리	X 좌표	Y 좌표
B C	-725.63697	198003.93857	215918.36381
E C	210.21388	198036.83794	216845.11636

구 분	누가거리	측점(STA.)	X좌표	Y좌표	방위각
	-1795.00000	-1-795.00000	198214.79282	214869.99470	101° 22' 19.02"
	-1790.00000	-1-790.00000	198213.80693	214874.89654	
	-1780.00000	-1-780.00000	198211.83516	214884.70022	
	-1760.00000	-1-760.00000	198207.89161	214904.30757	
	-1757.70000	-1-757.70000	198207.43810	214906.56242	
	-1754.90000	-1-754.90000	198206.88600	214909.30745	
	-1754.80000	-1-754.80000	198206.86628	214909.40549	
	-1754.80000	-1-754.80000	198206.86628	214909.40549	
	-1754.40000	-1-754.40000	198206.78741	214909.79763	
	-1754.40000	-1-754.40000	198206.78741	214909.79763	
	-1754.30000	-1-754.30000	198206.76770	214909.89567	
	-1753.70000	-1-753.70000	198206.64939	214910.48389	
	-1752.70000	-1-752.70000	198206.45221	214911.46426	
	-1750.00000	-1-750.00000	198205.91983	214914.11125	
	-1749.20000	-1-749.20000	198205.76209	214914.89555	
	-1748.80000	-1-748.80000	198205.68322	214915.28769	
	-1748.40000	-1-748.40000	198205.60435	214915.67984	
	-1747.80000	-1-747.80000	198205.48604	214916.26806	
	-1745.00000	-1-745.00000	198204.93395	214919.01309	
	-1740.00000	-1-740.00000	198203.94806	214923.91493	
	-1729.30000	-1-729.30000	198201.83826	214934.40487	
	-1727.80000	-1-727.80000	198201.54249	214935.87542	
	-1721.00000	-1-721.00000	198200.20169	214942.54192	
	-1720.00000	-1-720.00000	198200.00451	214943.52229	
	-1719.50000	-1-719.50000	198199.90592	214944.01247	
	-1705.00000	-1-705.00000	198197.04685	214958.22780	
	-1700.00000	-1-700.00000	198196.06096	214963.12964	
	-1700.00000	-1-700.00000	198196.06096	214963.12964	
	-1698.00000	-1-698.00000	198195.66661	214965.09038	
	-1695.50000	-1-695.50000	198195.17366	214967.54130	
	-1692.70000	-1-692.70000	198194.62157	214970.28633	
	-1692.20000	-1-692.20000	198194.52298	214970.77651	
	-1690.60000	-1-690.60000	198194.20749	214972.34510	
	-1690.10000	-1-690.10000	198194.10890	214972.83528	
	-1681.20000	-1-681.20000	198192.35403	214981.56056	
	-1681.00000	-1-681.00000	198192.31459	214981.75663	
	-1680.00000	-1-680.00000	198192.11741	214982.73700	
	-1676.90000	-1-676.90000	198191.50616	214985.77614	
	-1676.40000	-1-676.40000	198191.40757	214986.26632	
	-1673.10000	-1-673.10000	198190.75689	214989.50154	
	-1671.20000	-1-671.20000	198190.38225	214991.36424	
	-1667.00000	-1-667.00000	198189.55411	214995.48178	
	-1660.00000	-1-660.00000	198188.17386	215002.34436	
	-1658.00000	-1-658.00000	198187.77951	215004.30509	

부산외곽순환 고속도로 건설공사 실시설계

	-1657.50000	-1-657.50000	198187.68092	215004.79527	
	-1655.00000	-1-655.00000	198187.18798	215007.24619	
	-1648.50000	-1-648.50000	198185.90632	215013.61859	
	-1647.50000	-1-647.50000	198185.70915	215014.59895	
	-1644.50000	-1-644.50000	198185.11761	215017.54006	
	-1641.50000	-1-641.50000	198184.52608	215020.48116	
	-1640.00000	-1-640.00000	198184.23032	215021.95171	
	-1638.20000	-1-638.20000	198183.87540	215023.71637	
	-1637.70000	-1-637.70000	198183.77681	215024.20656	
	-1620.00000	-1-620.00000	198180.28677	215041.55907	
	-1615.00000	-1-615.00000	198179.30088	215046.46091	
	-1610.00000	-1-610.00000	198178.31499	215051.36275	
	-1600.00000	-1-600.00000	198176.34322	215061.16642	
	-1580.00000	-1-580.00000	198172.39967	215080.77378	
	-1570.00000	-1-570.00000	198170.42790	215090.57746	
	-1565.00000	-1-565.00000	198169.44201	215095.47930	
	-1560.00000	-1-560.00000	198168.45612	215100.38114	
	-1540.00000	-1-540.00000	198164.51257	215119.98849	
	-1525.00000	-1-525.00000	198161.55491	215134.69401	
	-1520.00000	-1-520.00000	198160.56902	215139.59585	
	-1500.00000	-1-500.00000	198156.62548	215159.20321	
	-1493.50000	-1-493.50000	198155.34382	215165.57560	
	-1493.50000	-1-493.50000	198155.34382	215165.57560	
	-1483.00000	-1-483.00000	198153.27346	215175.86946	
	-1483.00000	-1-483.00000	198153.27346	215175.86946	
	-1481.50000	-1-481.50000	198152.97769	215177.34001	
	-1480.00000	-1-480.00000	198152.68193	215178.81056	
	-1479.40000	-1-479.40000	198152.56362	215179.39878	
	-1475.90000	-1-475.90000	198151.87350	215182.83007	
	-1475.00000	-1-475.00000	198151.69604	215183.71240	
	-1460.00000	-1-460.00000	198148.73838	215198.41792	
	-1447.50000	-1-447.50000	198146.27366	215210.67252	
	-1440.00000	-1-440.00000	198144.79483	215218.02528	
	-1435.00000	-1-435.00000	198143.80894	215222.92711	
	-1430.00000	-1-430.00000	198142.82306	215227.82895	
	-1420.00000	-1-420.00000	198140.85128	215237.63263	
	-1411.00000	-1-411.00000	198139.07669	215246.45594	
	-1406.50000	-1-406.50000	198138.18939	215250.86760	
	-1403.00000	-1-403.00000	198137.49927	215254.29889	
	-1401.50000	-1-401.50000	198137.20350	215255.76944	
	-1400.00000	-1-400.00000	198136.90773	215257.23999	
	-1390.00000	-1-390.00000	198134.93596	215267.04367	
	-1385.00000	-1-385.00000	198133.95007	215271.94551	
	-1380.00000	-1-380.00000	198132.96419	215276.84735	
	-1360.00000	-1-360.00000	198129.02064	215296.45470	

	-1345.00000	-1-345.00000	198126.06298	215311.16022	
	-1341.40000	-1-341.40000	198125.35314	215314.68954	
	-1340.00000	-1-340.00000	198125.07709	215316.06206	
	-1338.00000	-1-338.00000	198124.68273	215318.02279	
	-1320.00000	-1-320.00000	198121.13354	215335.66941	
	-1318.50000	-1-318.50000	198120.83777	215337.13997	
	-1312.70000	-1-312.70000	198119.69414	215342.82610	
	-1312.10000	-1-312.10000	198119.57584	215343.41432	
	-1304.90000	-1-304.90000	198118.15616	215350.47297	
	-1301.10000	-1-301.10000	198117.40689	215354.19837	
	-1300.00000	-1-300.00000	198117.18999	215355.27677	
	-1295.00000	-1-295.00000	198116.20410	215360.17861	
	-1280.00000	-1-280.00000	198113.24644	215374.88413	
	-1277.00000	-1-277.00000	198112.65491	215377.82523	
	-1276.60000	-1-276.60000	198112.57604	215378.21738	
	-1276.20000	-1-276.20000	198112.49717	215378.60952	
	-1275.80000	-1-275.80000	198112.41830	215379.00167	
	-1260.00000	-1-260.00000	198109.30289	215394.49148	
	-1255.00000	-1-255.00000	198108.31701	215399.39332	
	-1255.00000	-1-255.00000	198108.31701	215399.39332	
	-1250.00000	-1-250.00000	198107.33112	215404.29516	
	-1240.00000	-1-240.00000	198105.35935	215414.09884	
	-1220.00000	-1-220.00000	198101.41580	215433.70620	
	-1200.00000	-1-200.00000	198097.47225	215453.31355	
	-1180.00000	-1-180.00000	198093.52870	215472.92091	
	-1178.10000	-1-178.10000	198093.15406	215474.78361	
	-1177.30000	-1-177.30000	198092.99632	215475.56790	
	-1164.30000	-1-164.30000	198090.43301	215488.31268	
	-1160.00000	-1-160.00000	198089.58515	215492.52827	
	-1148.70000	-1-148.70000	198087.35705	215503.60642	
	-1145.00000	-1-145.00000	198086.62749	215507.23378	
	-1140.00000	-1-140.00000	198085.64160	215512.13562	
	-1137.30000	-1-137.30000	198085.10922	215514.78262	
	-1134.10000	-1-134.10000	198084.47826	215517.91979	
	-1130.70000	-1-130.70000	198083.80785	215521.25304	
	-1120.00000	-1-120.00000	198081.69805	215531.74298	
	-1117.30000	-1-117.30000	198081.16568	215534.38997	
	-1108.20000	-1-108.20000	198079.37136	215543.31132	
	-1100.00000	-1-100.00000	198077.75451	215551.35033	
	-1099.10000	-1- 99.10000	198077.57705	215552.23267	
	-1089.30000	-1- 89.30000	198075.64471	215561.84027	
	-1080.20000	-1- 80.20000	198073.85039	215570.76162	
	-1080.20000	-1- 80.20000	198073.85039	215570.76162	
	-1080.00000	-1- 80.00000	198073.81096	215570.95769	
	-1079.80000	-1- 79.80000	198073.77152	215571.15376	

부산외곽순환 고속도로 건설공사 실시설계

	-1079.80000	-1- 79.80000	198073.77152	215571.15376	
	-1079.70000	-1- 79.70000	198073.75180	215571.25180	
	-1079.70000	-1- 79.70000	198073.75180	215571.25180	
	-1073.50000	-1- 73.50000	198072.52930	215577.33008	
	-1066.20000	-1- 66.20000	198071.08991	215584.48677	
	-1060.00000	-1- 60.00000	198069.86741	215590.56505	
	-1057.40000	-1- 57.40000	198069.35475	215593.11400	
	-1054.40000	-1- 54.40000	198068.76322	215596.05511	
	-1040.30000	-1- 40.30000	198065.98301	215609.87829	
	-1040.00000	-1- 40.00000	198065.92386	215610.17240	
	-1036.60000	-1- 36.60000	198065.25346	215613.50565	
	-1020.00000	-1- 20.00000	198061.98031	215629.77976	
	-1012.40000	-1- 12.40000	198060.48176	215637.23056	
	-1011.50000	-1- 11.50000	198060.30430	215638.11289	
	-1008.90000	-1- 8.90000	198059.79164	215640.66184	
	-1008.50000	-1- 8.50000	198059.71277	215641.05399	
	-1001.60000	-1- 1.60000	198058.35225	215647.81853	
	-1000.70000	-1- 0.70000	198058.17479	215648.70086	
	-1000.00000	-1+ 0.00000	198058.03676	215649.38712	
	-995.00000	0-995.00000	198057.05088	215654.28896	
	-994.60000	0-994.60000	198056.97201	215654.68110	
	-990.60000	0-990.60000	198056.18330	215658.60257	
	-989.40000	0-989.40000	198055.94668	215659.77902	
	-987.00000	0-987.00000	198055.47346	215662.13190	
	-983.90000	0-983.90000	198054.86221	215665.17104	
	-980.00000	0-980.00000	198054.09322	215668.99447	
	-966.70000	0-966.70000	198051.47076	215682.03337	
	-960.00000	0-960.00000	198050.14967	215688.60183	
	-940.00000	0-940.00000	198046.20612	215708.20919	
	-922.20000	0-922.20000	198042.69636	215725.65973	
	-920.20000	0-920.20000	198042.30201	215727.62047	
	-920.00000	0-920.00000	198042.26257	215727.81654	
	-912.00000	0-912.00000	198040.68515	215735.65948	
	-911.00000	0-911.00000	198040.48797	215736.63985	
	-906.00000	0-906.00000	198039.50209	215741.54169	
	-905.30000	0-905.30000	198039.36406	215742.22795	
	-904.80000	0-904.80000	198039.26547	215742.71813	
	-904.00000	0-904.00000	198039.10773	215743.50243	
	-900.00000	0-900.00000	198038.31902	215747.42390	
	-883.70000	0-883.70000	198035.10503	215763.40389	
	-883.00000	0-883.00000	198034.96700	215764.09015	
	-882.60000	0-882.60000	198034.88813	215764.48230	
	-880.00000	0-880.00000	198034.37547	215767.03126	
	-873.80000	0-873.80000	198033.15297	215773.10954	
	-863.80000	0-863.80000	198031.18120	215782.91321	

	-862.80000	0-862.80000	198030.98402	215783.89358	
	-860.00000	0-860.00000	198030.43192	215786.63861	
	-840.00000	0-840.00000	198026.48838	215806.24597	
	-820.00000	0-820.00000	198022.54483	215825.85332	
	-800.00000	0-800.00000	198018.60128	215845.46068	
	-780.00000	0-780.00000	198014.65773	215865.06804	
	-760.00000	0-760.00000	198010.71418	215884.67539	
	-751.50000	0-751.50000	198009.03817	215893.00852	
	-745.00000	0-745.00000	198007.75652	215899.38091	
	-742.00000	0-742.00000	198007.16499	215902.32201	
	-740.00000	0-740.00000	198006.77063	215904.28275	
	-736.50000	0-736.50000	198006.08051	215907.71404	
	-734.00000	0-734.00000	198005.58757	215910.16496	
	-729.50000	0-729.50000	198004.70027	215914.57661	
BC	-725.63697	0-725.63697	198003.93857	215918.36381	101° 22' 19.02"
	-720.00000	0-720.00000	198002.83487	215923.89167	101° 12' 37.67"
	-700.00000	0-700.00000	197999.04476	215943.52917	100° 38' 15.02"
	-690.00000	0-690.00000	197997.22339	215953.36189	100° 21' 3.70"
	-680.00000	0-680.00000	197995.45121	215963.20360	100° 3' 52.37"
	-677.00000	0-677.00000	197994.92915	215966.15783	99° 58' 42.98"
	-669.50000	0-669.50000	197993.64340	215973.54679	99° 45' 49.48"
	-667.50000	0-667.50000	197993.30521	215975.51799	99° 42' 23.22"
	-660.50000	0-660.50000	197992.13709	215982.41983	99° 30' 21.29"
	-660.00000	0-660.00000	197992.05458	215982.91298	99° 29' 29.73"
	-657.00000	0-657.00000	197991.56209	215985.87228	99° 24' 20.33"
	-640.00000	0-640.00000	197988.85520	216002.65533	98° 55' 7.08"
	-620.00000	0-620.00000	197985.85341	216022.42870	98° 20' 44.43"
	-607.50000	0-607.50000	197984.07776	216034.80192	97° 59' 15.27"
	-607.00000	0-607.00000	197984.00834	216035.29708	97° 58' 23.71"
	-606.00000	0-606.00000	197983.86988	216036.28744	97° 56' 40.58"
	-603.50000	0-603.50000	197983.52589	216038.76366	97° 52' 22.74"
	-600.00000	0-600.00000	197983.04950	216042.23109	97° 46' 21.78"
	-594.50000	0-594.50000	197982.31315	216047.68157	97° 36' 54.55"
	-588.70000	0-588.70000	197981.55288	216053.43153	97° 26' 56.38"
	-584.70000	0-584.70000	197981.03828	216057.39829	97° 20' 3.86"
	-580.00000	0-580.00000	197980.44375	216062.06053	97° 11' 59.13"
	-579.60000	0-579.60000	197980.39366	216062.45738	97° 11' 17.88"
	-566.50000	0-566.50000	197978.79702	216075.45970	96° 48' 46.85"
	-563.00000	0-563.00000	197978.38486	216078.93534	96° 42' 45.88"
	-560.00000	0-560.00000	197978.03642	216081.91504	96° 37' 36.48"
	-552.20000	0-552.20000	197977.15140	216089.66466	96° 24' 12.05"
	-550.50000	0-550.50000	197976.96252	216091.35414	96° 21' 16.73"
	-540.00000	0-540.00000	197975.82776	216101.79263	96° 3' 13.84"
	-520.00000	0-520.00000	197973.81797	216121.69130	95° 28' 51.19"
	-500.00000	0-500.00000	197972.00727	216141.60909	94° 54' 28.54"

부산외곽순환 고속도로 건설공사 실시설계

	-493.00000	0-493.00000	197971.42060	216148.58445	94° 42' 26.61"
	-480.00000	0-480.00000	197970.39584	216161.54398	94° 20' 5.89"
	-460.00000	0-460.00000	197968.98383	216181.49399	93° 45' 43.24"
	-440.20000	0-440.20000	197967.78252	216201.25743	93° 11' 41.22"
	-440.00000	0-440.00000	197967.77139	216201.45712	93° 11' 20.60"
	-436.50000	0-436.50000	197967.57974	216204.95187	93° 5' 19.63"
	-420.00000	0-420.00000	197966.75864	216221.43138	92° 36' 57.95"
	-411.00000	0-411.00000	197966.36807	216230.42289	92° 21' 29.76"
	-408.00000	0-408.00000	197966.24688	216233.42044	92° 16' 20.36"
	-405.00000	0-405.00000	197966.13018	216236.41817	92° 11' 10.96"
	-400.00000	0-400.00000	197965.94567	216241.41477	92° 2' 35.30"
	-399.20000	0-399.20000	197965.91731	216242.21426	92° 1' 12.79"
	-392.50000	0-392.50000	197965.69234	216248.91048	91° 49' 41.81"
	-389.30000	0-389.30000	197965.59280	216252.10893	91° 44' 11.78"
	-387.00000	0-387.00000	197965.52442	216254.40792	91° 40' 14.58"
	-382.90000	0-382.90000	197965.40909	216258.50629	91° 33' 11.74"
	-382.40000	0-382.40000	197965.39560	216259.00611	91° 32' 20.17"
	-380.00000	0-380.00000	197965.33258	216261.40528	91° 28' 12.65"
	-368.30000	0-368.30000	197965.06661	216273.10224	91° 8' 6.00"
	-360.00000	0-360.00000	197964.91942	216281.40093	90° 53' 50.00"
	-340.00000	0-340.00000	197964.70624	216301.39971	90° 19' 27.36"
	-325.60000	0-325.60000	197964.67658	216315.79965	89° 54' 42.25"
	-320.00000	0-320.00000	197964.69305	216321.39963	89° 45' 4.71"
	-300.00000	0-300.00000	197964.87985	216341.39867	89° 10' 42.06"
	-282.00000	0-282.00000	197965.21896	216359.39541	88° 39' 45.68"
	-280.00000	0-280.00000	197965.26664	216361.39485	88° 36' 19.41"
	-271.00000	0-271.00000	197965.50592	216370.39166	88° 20' 51.22"
	-262.20000	0-262.20000	197965.77904	216379.18741	88° 5' 43.66"
	-261.90000	0-261.90000	197965.78903	216379.48724	88° 5' 12.72"
	-260.00000	0-260.00000	197965.85336	216381.38615	88° 1' 56.76"
	-256.00000	0-256.00000	197965.99469	216385.38366	87° 55' 4.23"
	-248.40000	0-248.40000	197966.28525	216392.97810	87° 42' 0.43"
	-245.80000	0-245.80000	197966.39128	216395.57593	87° 37' 32.28"
	-243.60000	0-243.60000	197966.48363	216397.77399	87° 33' 45.39"
	-240.00000	0-240.00000	197966.63997	216401.37060	87° 27' 34.12"
	-220.00000	0-220.00000	197967.62637	216421.34617	86° 53' 11.47"
	-218.40000	0-218.40000	197967.71391	216422.94378	86° 50' 26.46"
	-217.60000	0-217.60000	197967.75816	216423.74255	86° 49' 3.95"
	-214.40000	0-214.40000	197967.93836	216426.93747	86° 43' 33.93"
	-213.60000	0-213.60000	197967.98420	216427.73616	86° 42' 11.42"
	-210.00000	0-210.00000	197968.19447	216431.33001	86° 36' 0.14"
	-208.40000	0-208.40000	197968.29000	216432.92716	86° 33' 15.13"
	-201.80000	0-201.80000	197968.69755	216439.51456	86° 21' 54.46"
	-200.80000	0-200.80000	197968.76120	216440.51253	86° 20' 11.33"
	-200.00000	0-200.00000	197968.81248	216441.31089	86° 18' 48.82"

	-195.50000	0-195.50000	197969.10686	216445.80125	86° 11' 4.72"
	-193.60000	0-193.60000	197969.23419	216447.69698	86° 7' 48.77"
	-192.80000	0-192.80000	197969.28834	216448.49514	86° 6' 26.27"
	-190.80000	0-190.80000	197969.42512	216450.49046	86° 3' 0.00"
	-180.60000	0-180.60000	197970.15370	216460.66439	85° 45' 28.05"
	-180.00000	0-180.00000	197970.19817	216461.26274	85° 44' 26.17"
	-160.00000	0-160.00000	197971.78331	216481.19974	85° 10' 3.52"
	-158.60000	0-158.60000	197971.90174	216482.59473	85° 7' 39.14"
	-156.00000	0-156.00000	197972.12426	216485.18519	85° 3' 10.99"
	-151.80000	0-151.80000	197972.49083	216489.36916	84° 55' 57.84"
	-151.60000	0-151.60000	197972.50851	216489.56837	84° 55' 37.21"
	-151.60000	0-151.60000	197972.50851	216489.56837	
	-149.10000	0-149.10000	197972.73113	216492.05844	84° 51' 19.38"
	-148.20000	0-148.20000	197972.81203	216492.95480	84° 49' 46.56"
	-147.70000	0-147.70000	197972.85715	216493.45276	84° 48' 54.99"
	-140.00000	0-140.00000	197973.56774	216501.11990	84° 35' 40.88"
	-120.00000	0-120.00000	197975.55127	216521.02121	84° 1' 18.23"
	-113.00000	0-113.00000	197976.29251	216527.98185	83° 49' 16.30"
	-103.60000	0-103.60000	197977.32621	216537.32483	83° 33' 6.86"
	-100.00000	0-100.00000	197977.73372	216540.90169	83° 26' 55.58"
	-80.00000	0- 80.00000	197980.11486	216560.75936	82° 52' 32.93"
	-67.10000	0- 67.10000	197981.75599	216573.55452	82° 30' 22.52"
	-60.00000	0- 60.00000	197982.69445	216580.59222	82° 18' 10.28"
	-53.20000	0- 53.20000	197983.61668	216587.32939	82° 6' 28.98"
	-51.50000	0- 51.50000	197983.85081	216589.01319	82° 3' 33.66"
	-47.90000	0- 47.90000	197984.35135	216592.57822	81° 57' 22.38"
	-47.00000	0- 47.00000	197984.47749	216593.46934	81° 55' 49.56"
	-46.00000	0- 46.00000	197984.61811	216594.45940	81° 54' 6.43"
	-40.00000	0- 40.00000	197985.47224	216600.39829	81° 43' 47.64"
	-26.50000	0- 26.50000	197987.45915	216613.75125	81° 20' 35.35"
	-22.00000	0- 22.00000	197988.14148	216618.19922	81° 12' 51.25"
	-20.00000	0- 20.00000	197988.44795	216620.17560	81° 9' 24.99"
	-17.50000	0- 17.50000	197988.83381	216622.64564	81° 5' 7.16"
	-10.50000	0- 10.50000	197989.93066	216629.55917	80° 53' 5.23"
	-7.70000	0- 7.70000	197990.37617	216632.32350	80° 48' 16.46"
	-3.70000	0- 3.70000	197991.01933	216636.27145	80° 41' 23.93"
	0.00000	0+ 0.00000	197991.62128	216639.92216	80° 35' 2.34"
	5.60000	0+ 5.60000	197992.54518	216645.44542	80° 25' 24.80"
	9.80000	0+ 9.80000	197993.24825	216649.58615	80° 18' 11.64"
	12.80000	0+ 12.80000	197993.75577	216652.54291	80° 13' 2.24"
	14.00000	0+ 14.00000	197993.96002	216653.72540	80° 10' 58.49"
	20.00000	0+ 20.00000	197994.99191	216659.63600	80° 0' 39.69"
	23.20000	0+ 23.20000	197995.54950	216662.78704	79° 55' 9.67"
	26.60000	0+ 26.60000	197996.14746	216666.13405	79° 49' 19.02"
	30.00000	0+ 30.00000	197996.75111	216669.48003	79° 43' 28.37"

부산외곽순환 고속도로 건설공사 실시설계

	33.00000	0+ 33.00000	197997.28847	216672.43151	79° 38' 18.97"
	34.20000	0+ 34.20000	197997.50465	216673.61188	79° 36' 15.21"
	40.00000	0+ 40.00000	197998.55951	216679.31515	79° 26' 17.04"
	47.70000	0+ 47.70000	197999.98547	216686.88195	79° 13' 2.92"
	49.50000	0+ 49.50000	198000.32301	216688.65002	79° 9' 57.29"
	60.00000	0+ 60.00000	198002.32372	216698.95764	78° 51' 54.39"
	61.50000	0+ 61.50000	198002.61395	216700.42929	78° 49' 19.70"
	77.70000	0+ 77.70000	198005.81873	216716.30909	78° 21' 28.95"
	78.50000	0+ 78.50000	198005.98033	216717.09260	78° 20' 6.45"
	80.00000	0+ 80.00000	198006.28416	216718.56150	78° 17' 31.75"
	84.00000	0+ 84.00000	198007.09976	216722.47747	78° 10' 39.22"
	85.00000	0+ 85.00000	198007.30488	216723.45620	78° 8' 56.08"
	92.00000	0+ 92.00000	198008.75445	216730.30447	77° 56' 54.16"
	97.00000	0+ 97.00000	198009.80453	216735.19296	77° 48' 18.50"
	100.00000	0+100.00000	198010.44044	216738.12478	77° 43' 9.10"
	102.10000	0+102.10000	198010.88819	216740.17650	77° 39' 32.52"
	105.20000	0+105.20000	198011.55310	216743.20435	77° 34' 12.81"
	107.60000	0+107.60000	198012.07109	216745.54778	77° 30' 5.29"
	115.00000	0+115.00000	198013.68592	216752.76944	77° 17' 22.11"
	120.00000	0+120.00000	198014.79214	216757.64553	77° 8' 46.45"
	124.30000	0+124.30000	198015.75324	216761.83674	77° 1' 22.98"
	126.40000	0+126.40000	198016.22589	216763.88286	76° 57' 46.40"
	140.00000	0+140.00000	198019.33883	216777.12178	76° 34' 23.80"
	145.50000	0+145.50000	198020.62329	216782.46969	76° 24' 56.57"
	160.00000	0+160.00000	198024.08005	216796.55159	76° 0' 1.15"
	170.70000	0+170.70000	198026.69631	216806.92679	75° 41' 37.64"
	171.70000	0+171.70000	198026.94366	216807.89572	75° 39' 54.51"
	173.00000	0+173.00000	198027.26593	216809.15514	75° 37' 40.43"
	173.80000	0+173.80000	198027.46466	216809.93006	75° 36' 17.93"
	180.00000	0+180.00000	198029.01532	216815.93301	75° 25' 38.51"
	200.00000	0+200.00000	198034.14417	216835.26412	74° 51' 15.86"
EC	210.21388	0+210.21388	198036.83794	216845.11636	74° 33' 42.48"
EP	210.21389	0+210.21389	198036.83794	216845.11637	

EP

EP 좌표	X	198036.83794	방위각	74 ° 33' 42.48"
	Y	216845.11637		

나. STA. 0+210~STA.1+942(분리구간,기장방향)

BP

BP 좌표	X	198035.39207	방위각	74° 33' 42.48"
	Y	216845.51567		

IP1 (우향)

구 분		원 곡 선	I P좌표	X	198064.29391
				Y	216950.17055
방위각	1	74° 33' 42.48"	원중심좌표	X	196107.55580
	2	80° 46' 35.17"		Y	217377.91338

I A	6° 12' 52.69"	R	2000.00000	D T	108.57237
T L	108.57235	S L	2.94482	C L	216.93177
S D	0.00002	SPX	198061.41702	SPY	216950.79944

구분	누가거리	X 좌표	Y 좌표
B C	210.21391	198035.39208	216845.51569
E C	427.14568	198081.69666	217057.33911

구 분	누가거리	측점(STA.)	X좌표	Y좌표	방위각
BP	210.21389	0+210.21389	198035.39207	216845.51567	74° 33' 42.48"
BC	210.21391	0+210.21391	198035.39208	216845.51569	74° 33' 42.48"
	220.00000	0+220.00000	198037.97403	216854.95501	74° 50' 31.74"
	240.00000	0+240.00000	198043.10701	216874.28502	75° 24' 54.39"
	260.00000	0+260.00000	198048.04643	216893.66539	75° 59' 17.04"
	280.00000	0+280.00000	198052.79181	216913.09419	76° 33' 39.69"
	300.00000	0+300.00000	198057.34266	216932.56947	77° 8' 2.33"
	320.00000	0+320.00000	198061.69854	216952.08928	77° 42' 24.98"
	329.00000	0+329.00000	198063.59495	216960.88720	77° 57' 53.17"
	340.00000	0+340.00000	198065.85900	216971.65167	78° 16' 47.63"
	360.00000	0+360.00000	198069.82364	216991.25469	78° 51' 10.28"
	380.00000	0+380.00000	198073.59205	217010.89637	79° 25' 32.93"
	400.00000	0+400.00000	198077.16385	217030.57476	79° 59' 55.57"
	420.00000	0+420.00000	198080.53870	217050.28788	80° 34' 18.22"
EC	427.14568	0+427.14568	198081.69666	217057.33911	80° 46' 35.17"
	439.70000	0+439.70000	198083.70896	217069.73110	
	440.00000	0+440.00000	198083.75704	217070.02722	
	445.00000	0+445.00000	198084.55848	217074.96258	
	445.80000	0+445.80000	198084.68671	217075.75223	
	450.00000	0+450.00000	198085.35991	217079.89793	

부산외곽순환 고속도로 건설공사 실시설계

	453.30000	0+453.30000	198085.88886	217083.15526	
	455.00000	0+455.00000	198086.16135	217084.83328	
	456.20000	0+456.20000	198086.35369	217086.01776	
	458.00000	0+458.00000	198086.64221	217087.79449	
	458.00000	0+458.00000	198086.64221	217087.79449	
	459.70000	0+459.70000	198086.91470	217089.47251	
	460.00000	0+460.00000	198086.96279	217089.76863	
	465.00000	0+465.00000	198087.76422	217094.70398	
	470.00000	0+470.00000	198088.56566	217099.63934	
	475.00000	0+475.00000	198089.36709	217104.57469	
	476.00000	0+476.00000	198089.52738	217105.56176	
	478.80000	0+478.80000	198089.97618	217108.32556	
	480.00000	0+480.00000	198090.16853	217109.51004	
	481.40000	0+481.40000	198090.39293	217110.89194	
	483.00000	0+483.00000	198090.64939	217112.47125	
	483.00000	0+483.00000	198090.64939	217112.47125	
	485.00000	0+485.00000	198090.96996	217114.44539	
	485.30000	0+485.30000	198091.01805	217114.74151	
	488.70000	0+488.70000	198091.56303	217118.09755	
	489.00000	0+489.00000	198091.61111	217118.39367	
	490.00000	0+490.00000	198091.77140	217119.38074	
	492.00000	0+492.00000	198092.09197	217121.35489	
	493.20000	0+493.20000	198092.28432	217122.53937	
	495.00000	0+495.00000	198092.57284	217124.31610	
	500.00000	0+500.00000	198093.37427	217129.25145	
	505.00000	0+505.00000	198094.17571	217134.18680	
	510.00000	0+510.00000	198094.97714	217139.12215	
	511.80000	0+511.80000	198095.26566	217140.89888	
	515.00000	0+515.00000	198095.77858	217144.05751	
	520.00000	0+520.00000	198096.58001	217148.99286	
	521.50000	0+521.50000	198096.82044	217150.47346	
	525.00000	0+525.00000	198097.38145	217153.92821	
	530.00000	0+530.00000	198098.18288	217158.86356	
	532.60000	0+532.60000	198098.59963	217161.42995	
	533.00000	0+533.00000	198098.66375	217161.82477	
	535.00000	0+535.00000	198098.98432	217163.79891	
	540.00000	0+540.00000	198099.78576	217168.73427	
	545.00000	0+545.00000	198100.58719	217173.66962	
	550.00000	0+550.00000	198101.38863	217178.60497	
	555.00000	0+555.00000	198102.19006	217183.54032	
	560.00000	0+560.00000	198102.99150	217188.47567	
	565.00000	0+565.00000	198103.79293	217193.41103	
	570.00000	0+570.00000	198104.59437	217198.34638	
	573.00000	0+573.00000	198105.07523	217201.30759	
	575.00000	0+575.00000	198105.39581	217203.28173	

	580.00000	0+580.00000	198106.19724	217208.21708	
	585.00000	0+585.00000	198106.99868	217213.15244	
	590.00000	0+590.00000	198107.80011	217218.08779	
	595.00000	0+595.00000	198108.60155	217223.02314	
	600.00000	0+600.00000	198109.40298	217227.95849	
	620.00000	0+620.00000	198112.60873	217247.69990	
	640.00000	0+640.00000	198115.81447	217267.44131	
	660.00000	0+660.00000	198119.02021	217287.18272	
	680.00000	0+680.00000	198122.22596	217306.92413	
	700.00000	0+700.00000	198125.43170	217326.66554	
	720.00000	0+720.00000	198128.63744	217346.40694	
	740.00000	0+740.00000	198131.84318	217366.14835	
	760.00000	0+760.00000	198135.04893	217385.88976	
	780.00000	0+780.00000	198138.25467	217405.63117	
	800.00000	0+800.00000	198141.46041	217425.37258	
	820.00000	0+820.00000	198144.66615	217445.11399	
	840.00000	0+840.00000	198147.87190	217464.85540	
	860.00000	0+860.00000	198151.07764	217484.59680	
	880.00000	0+880.00000	198154.28338	217504.33821	
	900.00000	0+900.00000	198157.48912	217524.07962	
	920.00000	0+920.00000	198160.69487	217543.82103	
	939.40000	0+939.40000	198163.80444	217562.97020	
	940.00000	0+940.00000	198163.90061	217563.56244	
	946.30000	0+946.30000	198164.91042	217569.78098	
	947.50000	0+947.50000	198165.10276	217570.96547	
	947.80000	0+947.80000	198165.15085	217571.26159	
	951.50000	0+951.50000	198165.74391	217574.91375	
	960.00000	0+960.00000	198167.10635	217583.30385	
	980.00000	0+980.00000	198170.31210	217603.04526	
	1000.00000	1+ 0.00000	198173.51784	217622.78666	
	1020.00000	1+ 20.00000	198176.72358	217642.52807	
	1040.00000	1+ 40.00000	198179.92932	217662.26948	
	1060.00000	1+ 60.00000	198183.13507	217682.01089	
	1080.00000	1+ 80.00000	198186.34081	217701.75230	
	1100.00000	1+100.00000	198189.54655	217721.49371	
	1120.00000	1+120.00000	198192.75229	217741.23512	
	1140.00000	1+140.00000	198195.95804	217760.97652	
	1160.00000	1+160.00000	198199.16378	217780.71793	
	1180.00000	1+180.00000	198202.36952	217800.45934	
	1200.00000	1+200.00000	198205.57527	217820.20075	
	1220.00000	1+220.00000	198208.78101	217839.94216	
	1240.00000	1+240.00000	198211.98675	217859.68357	
	1260.00000	1+260.00000	198215.19249	217879.42498	
	1280.00000	1+280.00000	198218.39824	217899.16638	
	1300.00000	1+300.00000	198221.60398	217918.90779	

부산외곽순환 고속도로 건설공사 실시설계

	1320.00000	1+320.00000	198224.80972	217938.64920	
	1340.00000	1+340.00000	198228.01546	217958.39061	
	1360.00000	1+360.00000	198231.22121	217978.13202	
	1380.00000	1+380.00000	198234.42695	217997.87343	
	1400.00000	1+400.00000	198237.63269	218017.61484	
	1420.00000	1+420.00000	198240.83844	218037.35624	
	1440.00000	1+440.00000	198244.04418	218057.09765	
	1460.00000	1+460.00000	198247.24992	218076.83906	
	1465.00000	1+465.00000	198248.05136	218081.77441	
	1467.30000	1+467.30000	198248.42002	218084.04468	
	1467.70000	1+467.70000	198248.48413	218084.43950	
	1468.50000	1+468.50000	198248.61236	218085.22916	
	1468.90000	1+468.90000	198248.67648	218085.62399	
	1470.00000	1+470.00000	198248.85279	218086.70977	
	1470.70000	1+470.70000	198248.96499	218087.40072	
	1475.00000	1+475.00000	198249.65423	218091.64512	
	1475.90000	1+475.90000	198249.79849	218092.53348	
	1478.50000	1+478.50000	198250.21523	218095.09987	
	1480.00000	1+480.00000	198250.45566	218096.58047	
	1485.00000	1+485.00000	198251.25710	218101.51582	
	1490.00000	1+490.00000	198252.05853	218106.45118	
	1495.00000	1+495.00000	198252.85997	218111.38653	
	1497.00000	1+497.00000	198253.18054	218113.36067	
	1500.00000	1+500.00000	198253.66141	218116.32188	
	1504.00000	1+504.00000	198254.30255	218120.27016	
	1505.00000	1+505.00000	198254.46284	218121.25723	
	1508.70000	1+508.70000	198255.05590	218124.90939	
	1510.00000	1+510.00000	198255.26428	218126.19258	
	1515.00000	1+515.00000	198256.06571	218131.12794	
	1520.00000	1+520.00000	198256.86715	218136.06329	
	1523.30000	1+523.30000	198257.39610	218139.32062	
	1525.00000	1+525.00000	198257.66858	218140.99864	
	1529.00000	1+529.00000	198258.30973	218144.94692	
	1530.00000	1+530.00000	198258.47002	218145.93399	
	1535.00000	1+535.00000	198259.27146	218150.86934	
	1540.00000	1+540.00000	198260.07289	218155.80470	
	1545.00000	1+545.00000	198260.87433	218160.74005	
	1550.00000	1+550.00000	198261.67576	218165.67540	
	1555.00000	1+555.00000	198262.47720	218170.61075	
	1560.00000	1+560.00000	198263.27863	218175.54611	
	1565.00000	1+565.00000	198264.08007	218180.48146	
	1570.00000	1+570.00000	198264.88151	218185.41681	
	1575.00000	1+575.00000	198265.68294	218190.35216	
	1580.00000	1+580.00000	198266.48438	218195.28751	
	1585.00000	1+585.00000	198267.28581	218200.22287	

	1590.00000	1+590.00000	198268.08725	218205.15822	
	1595.00000	1+595.00000	198268.88868	218210.09357	
	1600.00000	1+600.00000	198269.69012	218215.02892	
	1603.70000	1+603.70000	198270.28318	218218.68108	
	1603.70000	1+603.70000	198270.28318	218218.68108	
	1605.00000	1+605.00000	198270.49156	218219.96427	
	1610.00000	1+610.00000	198271.29299	218224.89963	
	1615.00000	1+615.00000	198272.09443	218229.83498	
	1620.00000	1+620.00000	198272.89586	218234.77033	
	1640.00000	1+640.00000	198276.10161	218254.51174	
	1649.30000	1+649.30000	198277.59228	218263.69149	
	1660.00000	1+660.00000	198279.30735	218274.25315	
	1660.80000	1+660.80000	198279.43558	218275.04280	
	1680.00000	1+680.00000	198282.51309	218293.99456	
	1690.50000	1+690.50000	198284.19611	218304.35880	
	1697.60000	1+697.60000	198285.33414	218311.36700	
	1697.60000	1+697.60000	198285.33414	218311.36700	
	1700.00000	1+700.00000	198285.71883	218313.73597	
	1707.80000	1+707.80000	198286.96907	218321.43511	
	1720.00000	1+720.00000	198288.92458	218333.47737	
	1740.00000	1+740.00000	198292.13032	218353.21878	
	1760.00000	1+760.00000	198295.33606	218372.96019	
	1764.00000	1+764.00000	198295.97721	218376.90847	
	1767.50000	1+767.50000	198296.53821	218380.36322	
	1767.70000	1+767.70000	198296.57027	218380.56063	
	1780.00000	1+780.00000	198298.54180	218392.70160	
	1785.30000	1+785.30000	198299.39133	218397.93307	
	1785.50000	1+785.50000	198299.42338	218398.13049	
	1794.30000	1+794.30000	198300.83391	218406.81671	
	1796.30000	1+796.30000	198301.15448	218408.79085	
	1796.50000	1+796.50000	198301.18654	218408.98826	
	1797.50000	1+797.50000	198301.34683	218409.97533	
	1797.70000	1+797.70000	198301.37889	218410.17275	
	1800.00000	1+800.00000	198301.74755	218412.44301	
	1805.40000	1+805.40000	198302.61310	218417.77319	
	1815.00000	1+815.00000	198304.15185	218427.24906	
	1820.00000	1+820.00000	198304.95329	218432.18442	
	1829.16000	1+829.16000	198306.42152	218441.22598	
	1840.00000	1+840.00000	198308.15903	218451.92583	
	1840.94000	1+840.94000	198308.30970	218452.85367	
	1860.00000	1+860.00000	198311.36477	218471.66723	
	1880.00000	1+880.00000	198314.57052	218491.40864	
	1900.00000	1+900.00000	198317.77626	218511.15005	
	1920.00000	1+920.00000	198320.98200	218530.89146	
	1940.00000	1+940.00000	198324.18775	218550.63287	

부산외곽순환 고속도로 건설공사 실시설계

EP	1942.65925	1+942.65925	198324.61399	218553.25774
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EP

EP 좌표	X	198324.61399	방위각	80 ° 46' 35.17"
	Y	218553.25774		

다. STA. 0+210~STA.1+945(분리구간,창원방향)

BP

BP 좌표	X	198038.28382	방위각	74 ° 33' 42.47"
	Y	216844.71707		

IP1 (좌향)

구 분	원 곡 선		I P좌표	X	198049.78369
				Y	216886.35862
	방위각	1	원중심좌표	X	199964.67421
		2		Y	216312.71866

I A	2 ° 28' 36.00"	R	1998.50000	D T	43.20030
T L	43.20028	S L	0.46686	C L	86.38710
S D	0.00002	SPX	198050.23092	SPY	216886.22465

구분	누가거리	X 좌표	Y 좌표
B C	210.21391	198038.28382	216844.71709
E C	296.60101	198063.07225	216927.46432

구 분	누가거리	측점(STA.)	X좌표	Y좌표	방위각
BP	210.21389	0+210.21389	198038.28382	216844.71707	74 ° 33' 42.47"
BC	210.21391	0+210.21391	198038.28382	216844.71709	74 ° 33' 42.47"
	220.00000	0+220.00000	198040.91196	216854.14366	74 ° 16' 52.45"
	220.01490	0+220.01490	198040.91599	216854.15801	74 ° 16' 50.92"
	240.00000	0+240.00000	198046.42651	216873.36829	73 ° 42' 28.26"
	240.05130	0+240.05130	198046.44090	216873.41753	73 ° 42' 22.96"
	260.00000	0+260.00000	198052.13318	216892.53677	73 ° 8' 4.06"
	260.10570	0+260.10570	198052.16385	216892.63792	73 ° 7' 53.15"
	280.00000	0+280.00000	198058.03138	216911.64718	72 ° 33' 39.87"
	280.19010	0+280.19010	198058.08836	216911.82854	72 ° 33' 20.25"
EC	296.60101	0+296.60101	198063.07225	216927.46432	72 ° 5' 6.48"

IP2 (우향)

구분	원곡선	I P좌표	X	198109.82290
			Y	217072.07881
방위각	1	72° 5' 6.48"	X	196160.04303
	2	80° 46' 35.17"	Y	217542.67143

I A	8° 41' 28.69"	R	2000.00000	D T	195.18375
T L	151.98342	S L	5.76643	C L	303.38374
S D	0.00005	SPX	198104.21743	SPY	217073.43173

구분	누가거리	X 좌표	Y 좌표
B C	296.60107	198063.07226	216927.46437
E C	599.98481	198134.18389	217222.09715

구분	누가거리	측점(STA.)	X좌표	Y좌표	방위각
BC	296.60107	0+296.60107	198063.07226	216927.46437	72° 5' 6.48"
	300.00000	0+300.00000	198064.11504	216930.69939	72° 10' 57.02"
	300.31630	0+300.31630	198064.21180	216931.00053	72° 11' 29.64"
	320.00000	0+320.00000	198070.13946	216949.77039	72° 45' 19.67"
	320.47030	0+320.47030	198070.27882	216950.21957	72° 46' 8.17"
	340.00000	0+340.00000	198075.97286	216968.90068	73° 19' 42.31"
	340.64160	0+340.64160	198076.15683	216969.51534	73° 20' 48.48"
	360.00000	0+360.00000	198081.61468	216988.08835	73° 54' 4.96"
	360.83010	0+360.83010	198081.84469	216988.88595	73° 55' 30.57"
	380.00000	0+380.00000	198087.06434	217007.33147	74° 28' 27.61"
	381.03590	0+381.03590	198087.34136	217008.32965	74° 30' 14.45"
	400.00000	0+400.00000	198092.32130	217026.62813	75° 2' 50.26"
	401.25890	0+401.25890	198092.64574	217027.84451	75° 5' 0.09"
	420.00000	0+420.00000	198097.38503	217045.97640	75° 37' 12.91"
	421.49910	0+421.49910	198097.75679	217047.42867	75° 39' 47.51"
	425.50000	0+425.50000	198098.74362	217051.30596	75° 46' 40.13"
	428.00000	0+428.00000	198099.35631	217053.72972	75° 50' 57.97"
	429.00000	0+429.00000	198099.60054	217054.69943	75° 52' 41.10"
	432.30000	0+432.30000	198100.40305	217057.90037	75° 58' 21.44"
	437.40000	0+437.40000	198101.63291	217062.84986	76° 7' 7.41"
	440.00000	0+440.00000	198102.25503	217065.37433	76° 11' 35.55"
	440.40000	0+440.40000	198102.35046	217065.76278	76° 12' 16.81"
	441.63290	0+441.63290	198102.64408	217066.96021	76° 14' 23.96"
	444.00000	0+444.00000	198103.20574	217069.25970	76° 18' 28.08"
	445.00000	0+445.00000	198103.44221	217070.23134	76° 20' 11.22"
	446.80000	0+446.80000	198103.86662	217071.98059	76° 23' 16.85"
	449.70000	0+449.70000	198104.54707	217074.79963	76° 28' 15.94"
	450.00000	0+450.00000	198104.61723	217075.09131	76° 28' 46.88"

부산외곽순환 고속도로 건설공사 실시설계

	450.30000	0+450.30000	198104.68735	217075.38300	76° 29' 17.82"
	451.20000	0+451.20000	198104.89743	217076.25814	76° 30' 50.64"
	452.50000	0+452.50000	198105.20019	217077.52240	76° 33' 4.71"
	455.00000	0+455.00000	198105.78011	217079.95420	76° 37' 22.54"
	460.00000	0+460.00000	198106.93082	217084.81999	76° 45' 58.20"
	461.68810	0+461.68810	198107.31657	217086.46342	76° 48' 52.30"
	465.00000	0+465.00000	198108.06936	217089.68863	76° 54' 33.86"
	470.00000	0+470.00000	198109.19573	217094.56011	77° 3' 9.53"
	471.30000	0+471.30000	198109.48659	217095.82715	77° 5' 23.60"
	473.80000	0+473.80000	198110.04362	217098.26431	77° 9' 41.43"
	475.00000	0+475.00000	198110.30991	217099.43439	77° 11' 45.19"
	476.40000	0+476.40000	198110.61970	217100.79968	77° 14' 9.57"
	480.00000	0+480.00000	198111.41191	217104.31143	77° 20' 20.85"
	481.00000	0+481.00000	198111.63085	217105.28717	77° 22' 3.98"
	481.72940	0+481.72940	198111.79023	217105.99895	77° 23' 19.21"
	485.00000	0+485.00000	198112.50171	217109.19122	77° 28' 56.51"
	486.73780	0+486.73780	198112.87763	217110.88788	77° 31' 55.74"
	490.00000	0+490.00000	198113.57931	217114.07372	77° 37' 32.17"
	491.74550	0+491.74550	198113.95262	217115.77883	77° 40' 32.19"
	495.00000	0+495.00000	198114.64470	217118.95889	77° 46' 7.84"
	496.40000	0+496.40000	198114.94082	217120.32722	77° 48' 32.22"
	496.75250	0+496.75250	198115.01523	217120.67177	77° 49' 8.58"
	500.00000	0+500.00000	198115.69787	217123.84672	77° 54' 43.50"
	501.75880	0+501.75880	198116.06543	217125.56668	77° 57' 44.89"
	503.20000	0+503.20000	198116.36549	217126.97630	78° 0' 13.52"
	505.00000	0+505.00000	198116.73882	217128.73716	78° 3' 19.16"
	506.76460	0+506.76460	198117.10327	217130.46371	78° 6' 21.15"
	507.10000	0+507.10000	198117.17237	217130.79191	78° 6' 55.74"
	510.00000	0+510.00000	198117.76754	217133.63018	78° 11' 54.82"
	511.76970	0+511.76970	198118.12871	217135.36264	78° 14' 57.34"
	515.00000	0+515.00000	198118.78402	217138.52577	78° 20' 30.48"
	516.70000	0+516.70000	198119.12684	217140.19084	78° 23' 25.81"
	516.77430	0+516.77430	198119.14179	217140.26362	78° 23' 33.47"
	520.00000	0+520.00000	198119.78827	217143.42388	78° 29' 6.15"
	521.77840	0+521.77840	198120.14250	217145.16664	78° 32' 9.56"
	523.00000	0+523.00000	198120.38493	217146.36394	78° 34' 15.54"
	525.00000	0+525.00000	198120.78026	217148.32448	78° 37' 41.81"
	526.78200	0+526.78200	198121.13084	217150.07166	78° 40' 45.59"
	530.00000	0+530.00000	198121.76000	217153.22755	78° 46' 17.47"
	531.78510	0+531.78510	198122.10682	217154.97864	78° 49' 21.57"
	532.40000	0+532.40000	198122.22592	217155.58190	78° 50' 24.99"
	534.78680	0+534.78680	198122.68647	217157.92384	78° 54' 31.15"
	535.00000	0+535.00000	198122.72748	217158.13306	78° 54' 53.13"
	536.78780	0+536.78780	198123.07043	217159.88766	78° 57' 57.51"
	538.50000	0+538.50000	198123.39741	217161.56834	79° 0' 54.10"

	540.00000	0+540.00000	198123.68269	217163.04097	79° 3' 28.79"
	541.79010	0+541.79010	198124.02169	217164.79867	79° 6' 33.41"
	545.00000	0+545.00000	198124.62563	217167.95125	79° 12' 4.46"
	545.70000	0+545.70000	198124.75666	217168.63887	79° 13' 16.65"
	546.79200	0+546.79200	198124.96059	217169.71166	79° 15' 9.27"
	550.00000	0+550.00000	198125.55629	217172.86387	79° 20' 40.12"
	551.79360	0+551.79360	198125.88714	217174.62669	79° 23' 45.10"
	555.00000	0+555.00000	198126.47466	217177.77880	79° 29' 15.78"
	556.79500	0+556.79500	198126.80136	217179.54382	79° 32' 20.90"
	560.00000	0+560.00000	198127.38075	217182.69602	79° 37' 51.44"
	561.79600	0+561.79600	198127.70321	217184.46283	79° 40' 56.67"
	565.00000	0+565.00000	198128.27454	217187.61548	79° 46' 27.10"
	566.79680	0+566.79680	198128.59273	217189.38388	79° 49' 32.41"
	570.00000	0+570.00000	198129.15603	217192.53716	79° 55' 2.77"
	571.79740	0+571.79740	198129.46990	217194.30695	79° 58' 8.14"
	574.79760	0+574.79760	198129.99026	217197.26168	80° 3' 17.55"
	575.00000	0+575.00000	198130.02521	217197.46104	80° 3' 38.43"
	576.79780	0+576.79780	198130.33472	217199.23199	80° 6' 43.84"
	580.00000	0+580.00000	198130.88208	217202.38707	80° 12' 14.09"
	581.79810	0+581.79810	198131.18721	217204.15909	80° 15' 19.53"
	585.00000	0+585.00000	198131.72663	217207.31522	80° 20' 49.75"
	586.79820	0+586.79820	198132.02735	217209.08810	80° 23' 55.21"
	590.00000	0+590.00000	198132.55886	217212.24547	80° 29' 25.42"
	591.79830	0+591.79830	198132.85516	217214.01919	80° 32' 30.88"
	595.00000	0+595.00000	198133.37876	217217.17779	80° 38' 1.08"
	596.79830	0+596.79830	198133.67063	217218.95225	80° 41' 6.54"
EC	599.98481	0+599.98481	198134.18389	217222.09715	80° 46' 35.17"

IP3 (우향)

구분		원곡선	IP좌표	X	198298.91485
				Y	218236.53325
방위각	1	80° 46' 35.17"	원중심좌표	X	196307.78699
	2	86° 50' 34.40"		Y	218452.49922

IA	6° 3' 59.22"	R	2000.00000	DT	1179.70755
TL	105.97856	SL	2.80590	CL	211.75908
SD	921.74557	SPX	198296.12531	SPY	218236.83581

구분	누가거리	X 좌표	Y 좌표
BC	1521.73038	198281.92785	218131.92494
EC	1733.48946	198304.75153	218342.35097

부산외곽순환 고속도로 건설공사 실시설계

구 분	누가거리	측점(STA.)	X좌표	Y좌표	방위각
	600.00000	0+600.00000	198134.18632	217222.11214	80° 46' 35.17"
	620.00000	0+620.00000	198137.39207	217241.85355	
	640.00000	0+640.00000	198140.59781	217261.59496	
	660.00000	0+660.00000	198143.80355	217281.33637	
	680.00000	0+680.00000	198147.00929	217301.07778	
	700.00000	0+700.00000	198150.21504	217320.81918	
	720.00000	0+720.00000	198153.42078	217340.56059	
	740.00000	0+740.00000	198156.62652	217360.30200	
	760.00000	0+760.00000	198159.83226	217380.04341	
	780.00000	0+780.00000	198163.03801	217399.78482	
	800.00000	0+800.00000	198166.24375	217419.52623	
	820.00000	0+820.00000	198169.44949	217439.26764	
	840.00000	0+840.00000	198172.65524	217459.00904	
	860.00000	0+860.00000	198175.86098	217478.75045	
	880.00000	0+880.00000	198179.06672	217498.49186	
	900.00000	0+900.00000	198182.27246	217518.23327	
	920.00000	0+920.00000	198185.47821	217537.97468	
	940.00000	0+940.00000	198188.68395	217557.71609	
	960.00000	0+960.00000	198191.88969	217577.45750	
	980.00000	0+980.00000	198195.09544	217597.19890	
	1000.00000	1+ 0.00000	198198.30118	217616.94031	
	1020.00000	1+ 20.00000	198201.50692	217636.68172	
	1040.00000	1+ 40.00000	198204.71266	217656.42313	
	1060.00000	1+ 60.00000	198207.91841	217676.16454	
	1080.00000	1+ 80.00000	198211.12415	217695.90595	
	1100.00000	1+100.00000	198214.32989	217715.64736	
	1120.00000	1+120.00000	198217.53564	217735.38876	
	1140.00000	1+140.00000	198220.74138	217755.13017	
	1160.00000	1+160.00000	198223.94712	217774.87158	
	1180.00000	1+180.00000	198227.15286	217794.61299	
	1200.00000	1+200.00000	198230.35861	217814.35440	
	1220.00000	1+220.00000	198233.56435	217834.09581	
	1240.00000	1+240.00000	198236.77009	217853.83722	
	1260.00000	1+260.00000	198239.97583	217873.57863	
	1280.00000	1+280.00000	198243.18158	217893.32003	
	1300.00000	1+300.00000	198246.38732	217913.06144	
	1320.00000	1+320.00000	198249.59306	217932.80285	
	1340.00000	1+340.00000	198252.79881	217952.54426	
	1360.00000	1+360.00000	198256.00455	217972.28567	
	1380.00000	1+380.00000	198259.21029	217992.02708	
	1400.00000	1+400.00000	198262.41603	218011.76849	
	1420.00000	1+420.00000	198265.62178	218031.50989	
	1421.79830	1+421.79830	198265.91002	218033.28494	
	1440.00000	1+440.00000	198268.82752	218051.25130	

	1441.79830	1+441.79830	198269.11576	218053.02635	
	1460.00000	1+460.00000	198272.03326	218070.99271	
	1461.79830	1+461.79830	198272.32151	218072.76776	
	1465.00000	1+465.00000	198272.83470	218075.92806	
	1470.00000	1+470.00000	198273.63613	218080.86342	
	1471.79830	1+471.79830	198273.92438	218082.63846	
	1475.00000	1+475.00000	198274.43757	218085.79877	
	1476.79830	1+476.79830	198274.72581	218087.57382	
	1480.00000	1+480.00000	198275.23901	218090.73412	
	1481.79830	1+481.79830	198275.52725	218092.50917	
	1485.00000	1+485.00000	198276.04044	218095.66947	
	1486.79830	1+486.79830	198276.32869	218097.44452	
	1490.00000	1+490.00000	198276.84188	218100.60482	
	1491.79830	1+491.79830	198277.13012	218102.37987	
	1495.00000	1+495.00000	198277.64331	218105.54018	
	1496.79830	1+496.79830	198277.93156	218107.31522	
	1498.79830	1+498.79830	198278.25213	218109.28937	
	1500.00000	1+500.00000	198278.44475	218110.47553	
	1501.79830	1+501.79830	198278.73299	218112.25058	
	1505.00000	1+505.00000	198279.24618	218115.41088	
	1505.79830	1+505.79830	198279.37414	218116.19886	
	1506.79830	1+506.79830	198279.53443	218117.18593	
	1510.00000	1+510.00000	198280.04762	218120.34623	
	1511.79830	1+511.79830	198280.33586	218122.12128	
	1515.00000	1+515.00000	198280.84906	218125.28158	
	1516.79830	1+516.79830	198281.13730	218127.05663	
	1520.00000	1+520.00000	198281.65049	218130.21694	
BC	1521.73038	1+521.73038	198281.92785	218131.92494	80° 46' 35.17"
	1521.79830	1+521.79830	198281.93873	218131.99199	80° 46' 42.18"
	1525.00000	1+525.00000	198282.44929	218135.15272	80° 52' 12.38"
	1526.79830	1+526.79830	198282.73383	218136.92836	80° 55' 17.84"
	1530.00000	1+530.00000	198283.23648	218140.09036	81° 0' 48.04"
	1530.79830	1+530.79830	198283.36102	218140.87888	81° 2' 10.37"
	1531.79840	1+531.79840	198283.51660	218141.86681	81° 3' 53.51"
	1535.00000	1+535.00000	198284.01133	218145.02995	81° 9' 23.70"
	1536.79850	1+536.79850	198284.28702	218146.80720	81° 12' 29.18"
	1539.00000	1+539.00000	198284.62232	218148.98301	81° 16' 16.23"
	1540.00000	1+540.00000	198284.77383	218149.97147	81° 17' 59.36"
	1541.79860	1+541.79860	198285.04509	218151.74950	81° 21' 4.86"
	1545.00000	1+545.00000	198285.52397	218154.91488	81° 26' 35.02"
	1546.79900	1+546.79900	198285.79085	218156.69397	81° 29' 40.56"
	1550.00000	1+550.00000	198286.26175	218159.86014	81° 35' 10.69"
	1551.79940	1+551.79940	198286.52424	218161.64030	81° 38' 16.26"
	1555.00000	1+555.00000	198286.98716	218164.80724	81° 43' 46.35"
	1556.80010	1+556.80010	198287.24530	218166.58874	81° 46' 52.00"

부산외곽순환 고속도로 건설공사 실시설계

	1560.00000	1+560.00000	198287.70021	218169.75613	81° 52' 22.01"
	1561.80100	1+561.80100	198287.95401	218171.53916	81° 55' 27.75"
	1565.00000	1+565.00000	198288.40088	218174.70680	82° 0' 57.67"
	1566.80210	1+566.80210	198288.65038	218176.49154	82° 4' 3.53"
	1570.00000	1+570.00000	198289.08917	218179.65919	82° 9' 33.33"
	1571.80350	1+571.80350	198289.33440	218181.44594	82° 12' 39.33"
	1575.00000	1+575.00000	198289.76508	218184.61330	82° 18' 9.00"
	1576.80530	1+576.80530	198290.00608	218186.40244	82° 21' 15.18"
	1580.00000	1+580.00000	198290.42860	218189.56907	82° 26' 44.66"
	1581.80730	1+581.80730	198290.66538	218191.36080	82° 29' 51.05"
	1585.00000	1+585.00000	198291.07972	218194.52649	82° 35' 20.32"
	1586.80980	1+586.80980	198291.31235	218196.32128	82° 38' 26.97"
	1590.00000	1+590.00000	198291.71846	218199.48553	82° 43' 55.98"
	1591.81260	1+591.81260	198291.94695	218201.28367	82° 47' 2.92"
	1595.00000	1+595.00000	198292.34479	218204.44614	82° 52' 31.64"
	1596.10000	1+596.10000	198292.48092	218205.53769	82° 54' 25.09"
	1596.10000	1+596.10000	198292.48092	218205.53769	
	1596.81590	1+596.81590	198292.56919	218206.24812	82° 55' 38.92"
	1600.00000	1+600.00000	198292.95872	218209.40831	83° 1' 7.31"
	1601.81970	1+601.81970	198293.17908	218211.21461	83° 4' 14.98"
	1605.00000	1+605.00000	198293.56025	218214.37199	83° 9' 42.97"
	1610.00000	1+610.00000	198294.14936	218219.33716	83° 18' 18.63"
	1615.00000	1+615.00000	198294.72605	218224.30379	83° 26' 54.29"
	1620.00000	1+620.00000	198295.29033	218229.27185	83° 35' 29.95"
	1621.84010	1+621.84010	198295.49487	218231.10054	83° 38' 39.73"
	1640.00000	1+640.00000	198297.42320	218249.15771	84° 9' 52.60"
	1641.87050	1+641.87050	198297.61250	218251.01861	84° 13' 5.51"
	1654.50000	1+654.50000	198298.84512	218263.58779	84° 34' 48.02"
	1655.50000	1+655.50000	198298.93933	218264.58334	84° 36' 31.15"
	1655.50000	1+655.50000	198298.93933	218264.58334	
	1660.00000	1+660.00000	198299.35710	218269.06391	84° 44' 15.25"
	1661.91310	1+661.91310	198299.53165	218270.96903	84° 47' 32.55"
	1680.00000	1+680.00000	198301.09184	218288.98845	85° 18' 37.90"
	1681.96970	1+681.96970	198301.25191	218290.95163	85° 22' 1.04"
	1700.00000	1+700.00000	198302.62726	218308.92934	85° 53' 0.55"
	1702.04250	1+702.04250	198302.77284	218310.96665	85° 56' 31.19"
	1720.00000	1+720.00000	198303.96319	218328.88459	86° 27' 23.19"
	1722.13350	1+722.13350	198304.09392	218331.01408	86° 31' 3.23"
	1733.48934	1+733.48934	198304.75152	218342.35085	86° 50' 34.38"
EC	1733.48946	1+733.48946	198304.75153	218342.35097	86° 50' 34.40"

IP4 (좌향)

구 분		원 곡 선	I P좌표	X	198310.58820
				Y	218448.16861
방위각	1	86° 50' 34.40"	원중심좌표	X	200301.71606
	2	80° 46' 35.16"		Y	218232.20259

I A	6° 3' 59.23"	R	2000.00000	D T	211.95705
T L	105.97861	S L	2.80590	C L	211.75917
S D	0.00012	SPX	198313.37774	SPY	218447.86605

구분	누가거리	X 좌표	Y 좌표
B C	1733.48934	198304.75152	218342.35085
E C	1945.24851	198327.57521	218552.77696

구 분	누가거리	측점(STA.)	X좌표	Y좌표	방위각
	1740.00000	1+740.00000	198305.12067	218348.85103	86° 39' 22.93"
	1742.24080	1+742.24080	198305.25262	218351.08794	86° 35' 31.84"
	1760.00000	1+760.00000	198306.38696	218368.81082	86° 5' 0.29"
	1762.33430	1+762.33430	198306.54777	218371.13958	86° 0' 59.54"
	1780.00000	1+780.00000	198307.85279	218388.75695	85° 30' 37.64"
	1782.40930	1+782.40930	198308.04283	218391.15874	85° 26' 29.16"
	1785.50000	1+785.50000	198308.29085	218394.23947	85° 21' 10.41"
	1787.60000	1+787.60000	198308.46209	218396.33248	85° 17' 33.83"
	1787.70000	1+787.70000	198308.47030	218396.43214	85° 17' 23.52"
	1800.00000	1+800.00000	198309.51800	218408.68742	84° 56' 14.99"
	1802.46790	1+802.46790	198309.73729	218411.14556	84° 52' 0.47"
	1803.10000	1+803.10000	198309.79394	218411.77511	84° 50' 55.28"
	1803.40000	1+803.40000	198309.82090	218412.07390	84° 50' 24.34"
	1814.00000	1+814.00000	198310.80219	218422.62837	84° 32' 11.14"
	1815.20000	1+815.20000	198310.91680	218423.82288	84° 30' 7.38"
	1815.40000	1+815.40000	198310.93598	218424.02196	84° 29' 46.75"
	1816.20000	1+816.20000	198311.01286	218424.81826	84° 28' 24.25"
	1816.40000	1+816.40000	198311.03214	218425.01733	84° 28' 3.62"
	1820.00000	1+820.00000	198311.38243	218428.60025	84° 21' 52.34"
	1822.51210	1+822.51210	198311.63068	218431.10005	84° 17' 33.26"
	1830.30000	1+830.30000	198312.42026	218438.84781	84° 4' 10.08"
	1831.68820	1+831.68820	198312.56418	218440.22853	84° 1' 46.91"
	1835.43900	1+835.43900	198312.95781	218443.95862	83° 55' 20.08"
	1840.00000	1+840.00000	198313.44589	218448.49343	83° 47' 29.69"
	1842.54400	1+842.54400	198313.72262	218451.02233	83° 43' 7.33"
	1843.48530	1+843.48530	198313.82582	218451.95796	83° 41' 30.25"
	1846.86400	1+846.86400	198314.19990	218455.31589	83° 35' 41.79"
	1851.10000	1+851.10000	198314.67692	218459.52494	83° 28' 24.92"

부산외곽순환 고속도로 건설공사 실시설계

	1860.00000	1+860.00000	198315.70817	218468.36499	83° 13' 7.05"
	1862.56560	1+862.56560	198316.01275	218470.91244	83° 8' 42.45"
	1880.00000	1+880.00000	198318.16906	218488.21293	82° 38' 44.40"
	1882.57890	1+882.57890	198318.50082	218490.77040	82° 34' 18.43"
	1900.00000	1+900.00000	198320.82829	218508.03527	82° 4' 21.75"
	1902.58590	1+902.58590	198321.18659	218510.59622	81° 59' 55.06"
	1920.00000	1+920.00000	198323.68562	218527.83002	81° 29' 59.10"
	1922.58870	1+922.58870	198324.06992	218530.39004	81° 25' 32.12"
	1940.00000	1+940.00000	198326.74074	218547.59521	80° 55' 36.45"
	1942.58920	1+942.58920	198327.15071	218550.15175	80° 51' 9.42"
	1945.24840	1+945.24840	198327.57520	218552.77685	80° 46' 35.17"
EC	1945.24851	1+945.24851	198327.57521	218552.77696	80° 46' 35.16"
	1945.24859	1+945.24859	198327.57520	218552.77688	
EP	2510.21389	2+510.21389	198418.13190	219110.43741	

EP

EP 좌표	X	198327.57520	방위각	80° 46' 35.16"
	Y	218552.77688		

라. STA. 1+942~STA.3+219(일반구간,기장방향)

BP

BP 좌표	X	198326.09459	방위각	80° 46' 35.17"
	Y	218553.01731		

IP2 (우향)

구분		원곡선	I P좌표	X	198479.15505
				Y	219495.58483
방위각	1	80° 46' 35.17"	원중심좌표	X	196748.23812
	2	102° 44' 54.32"		Y	219442.32467

I A	21° 58' 19.15"	R	1700.00000	D T	954.91415
T L	330.01526	S L	31.73614	C L	651.92196
S D	624.89889	SPX	198447.43392	SPY	219494.60877

구분	누가거리	X 좌표	Y 좌표
B C	2567.55815	198426.25785	219169.83653
E C	3219.48012	198406.33039	219817.46468

구 분	누가거리	측점(STA.)	X좌표	Y좌표	방위각
BP	1942.65925	1+942.65925	198326.09459	218553.01732	80° 46' 35.17"
	1960.00000	1+960.00000	198328.87409	218570.13384	
	1978.00000	1+978.00000	198331.75926	218587.90111	
	1980.00000	1+980.00000	198332.07983	218589.87525	
	1985.50000	1+985.50000	198332.96141	218595.30414	
	2000.00000	2+ 0.00000	198335.28557	218609.61666	
	2005.00000	2+ 5.00000	198336.08701	218614.55201	
	2020.00000	2+ 20.00000	198338.49132	218629.35807	
	2040.00000	2+ 40.00000	198341.69706	218649.09948	
	2046.60000	2+ 46.60000	198342.75495	218655.61414	
	2049.50000	2+ 49.50000	198343.21979	218658.47665	
	2060.00000	2+ 60.00000	198344.90280	218668.84088	
	2076.00000	2+ 76.00000	198347.46740	218684.63401	
	2080.00000	2+ 80.00000	198348.10854	218688.58229	
	2087.00000	2+ 87.00000	198349.23055	218695.49179	
	2100.00000	2+100.00000	198351.31429	218708.32370	
	2120.00000	2+120.00000	198354.52003	218728.06511	
	2124.00000	2+124.00000	198355.16118	218732.01339	
	2124.80000	2+124.80000	198355.28941	218732.80305	
	2140.00000	2+140.00000	198357.72577	218747.80652	
	2157.00000	2+157.00000	198360.45065	218764.58672	
	2160.00000	2+160.00000	198360.93152	218767.54793	
	2165.00000	2+165.00000	198361.73295	218772.48328	
	2174.00000	2+174.00000	198363.17554	218781.36691	
	2178.80000	2+178.80000	198363.94491	218786.10485	
	2180.00000	2+180.00000	198364.13726	218787.28934	
	2200.00000	2+200.00000	198367.34300	218807.03074	
	2219.20000	2+219.20000	198370.42051	218825.98250	
	2220.00000	2+220.00000	198370.54874	218826.77215	
	2223.50000	2+223.50000	198371.10975	218830.22690	
	2240.00000	2+240.00000	198373.75449	218846.51356	
	2260.00000	2+260.00000	198376.96023	218866.25497	
	2280.00000	2+280.00000	198380.16597	218885.99638	
	2300.00000	2+300.00000	198383.37172	218905.73779	
	2320.00000	2+320.00000	198386.57746	218925.47920	
	2340.00000	2+340.00000	198389.78320	218945.22060	
	2353.16429	2+353.16429	198391.89327	218958.21469	
	2355.55457	2+355.55457	198392.27640	218960.57406	
	2360.00000	2+360.00000	198392.98894	218964.96201	
	2380.00000	2+380.00000	198396.19469	218984.70342	
	2400.00000	2+400.00000	198399.40043	219004.44483	
	2420.00000	2+420.00000	198402.60617	219024.18624	
	2440.00000	2+440.00000	198405.81192	219043.92765	
	2449.50000	2+449.50000	198407.33464	219053.30482	

부산외곽순환 고속도로 건설공사 실시설계

	2460.00000	2+460.00000	198409.01766	219063.66906	
	2462.50000	2+462.50000	198409.41838	219066.13673	
	2467.50000	2+467.50000	198410.21981	219071.07208	
	2470.75000	2+470.75000	198410.74075	219074.28006	
	2473.60000	2+473.60000	198411.19736	219077.09321	
	2476.00000	2+476.00000	198411.58225	219079.46218	
	2480.00000	2+480.00000	198412.22340	219083.41046	
	2489.20000	2+489.20000	198413.69804	219092.49151	
	2495.20000	2+495.20000	198414.65977	219098.41394	
	2500.00000	2+500.00000	198415.42914	219103.15187	
	2520.00000	2+520.00000	198418.63489	219122.89328	
	2540.00000	2+540.00000	198421.84063	219142.63469	
	2557.50000	2+557.50000	198424.64566	219159.90842	
	2560.00000	2+560.00000	198425.04637	219162.37610	
	2560.75000	2+560.75000	198425.16659	219163.11640	
BC	2567.55815	2+567.55815	198426.25785	219169.83653	80° 46' 35.17"
	2580.00000	2+580.00000	198428.20716	219182.12470	81° 11' 44.77"
	2592.00000	2+592.00000	198430.00199	219193.98968	81° 36' 0.76"
	2592.20711	2+592.20711	198430.03224	219194.19457	81° 36' 25.88"
	2595.00000	2+595.00000	198430.43761	219196.95789	81° 42' 4.75"
	2600.00000	2+600.00000	198431.15200	219201.90659	81° 52' 11.41"
	2620.00000	2+620.00000	198433.86392	219221.72176	82° 32' 38.06"
	2637.40000	2+637.40000	198436.03353	219238.98589	83° 7' 49.24"
	2639.10000	2+639.10000	198436.23602	219240.67378	83° 11' 15.50"
	2639.50000	2+639.50000	198436.28342	219241.07096	83° 12' 4.04"
	2640.00000	2+640.00000	198436.34254	219241.56746	83° 13' 4.70"
	2643.00000	2+643.00000	198436.69419	219244.54678	83° 19' 8.70"
	2660.00000	2+660.00000	198438.58751	219261.44094	83° 53' 31.35"
	2680.00000	2+680.00000	198440.59853	219281.33947	84° 33' 57.99"
	2700.00000	2+700.00000	198442.37531	219301.26027	85° 14' 24.64"
	2720.00000	2+720.00000	198443.91762	219321.20060	85° 54' 51.28"
	2725.96906	2+725.96906	198444.33245	219327.15522	86° 6' 55.52"
	2726.00000	2+726.00000	198444.33455	219327.18609	86° 6' 59.28"
	2732.77165	2+732.77165	198444.77973	219333.94309	86° 20' 40.90"
	2740.00000	2+740.00000	198445.22523	219341.15769	86° 35' 17.93"
	2760.00000	2+760.00000	198446.29796	219361.12879	87° 15' 44.57"
	2780.00000	2+780.00000	198447.13567	219381.11112	87° 56' 11.22"
	2788.20000	2+788.20000	198447.41117	219389.30648	88° 12' 46.14"
	2800.00000	2+800.00000	198447.73825	219401.10192	88° 36' 37.86"
	2805.00000	2+805.00000	198447.85214	219406.10062	88° 46' 44.52"
	2820.00000	2+820.00000	198448.10560	219421.09843	89° 17' 4.51"
	2840.00000	2+840.00000	198448.23768	219441.09788	89° 57' 31.15"
	2850.00000	2+850.00000	198448.21548	219451.09784	90° 17' 44.47"
	2860.00000	2+860.00000	198448.13446	219461.09750	90° 37' 57.80"
	2880.00000	2+880.00000	198447.79597	219481.09452	91° 18' 24.44"

	2895.00000	2+895.00000	198447.38773	219496.08892	91° 48' 44.42"
	2900.00000	2+900.00000	198447.22225	219501.08618	91° 58' 51.09"
	2920.00000	2+920.00000	198446.41338	219521.06970	92° 39' 17.73"
	2940.00000	2+940.00000	198445.36947	219541.04232	93° 19' 44.37"
	2960.00000	2+960.00000	198444.09067	219561.00128	94° 0' 11.02"
	2980.00000	2+980.00000	198442.57714	219580.94381	94° 40' 37.66"
	2985.00000	2+985.00000	198442.16211	219585.92655	94° 50' 44.33"
	3000.00000	3+ 0.00000	198440.82911	219600.86716	95° 21' 4.31"
	3020.00000	3+ 20.00000	198438.84682	219620.76856	96° 1' 30.95"
	3027.90000	3+ 27.90000	198437.99933	219628.62297	96° 17' 29.48"
	3029.00000	3+ 29.00000	198437.87843	219629.71630	96° 19' 42.94"
	3030.00000	3+ 30.00000	198437.76791	219630.71018	96° 21' 44.28"
	3036.00000	3+ 36.00000	198437.09249	219636.67204	96° 33' 52.27"
	3040.00000	3+ 40.00000	198436.63053	219640.64527	96° 41' 57.60"
	3045.00000	3+ 45.00000	198436.03993	219645.61026	96° 52' 4.26"
	3046.60000	3+ 46.60000	198435.84786	219647.19869	96° 55' 18.39"
	3050.60000	3+ 50.60000	198435.36113	219651.16897	97° 3' 23.72"
	3055.50000	3+ 55.50000	198434.75216	219656.03098	97° 13' 18.25"
	3060.00000	3+ 60.00000	198434.18056	219660.49453	97° 22' 24.24"
	3074.00000	3+ 74.00000	198432.32672	219674.37120	97° 50' 42.89"
	3075.00000	3+ 75.00000	198432.18993	219675.36180	97° 52' 44.23"
	3075.40000	3+ 75.40000	198432.13505	219675.75802	97° 53' 32.76"
	3077.40000	3+ 77.40000	198431.85926	219677.73891	97° 57' 35.42"
	3080.00000	3+ 80.00000	198431.49724	219680.31359	98° 2' 50.89"
	3080.90000	3+ 80.90000	198431.37101	219681.20469	98° 4' 40.09"
	3088.90000	3+ 88.90000	198430.22824	219689.12264	98° 20' 50.75"
	3092.80000	3+ 92.80000	198429.65763	219692.98067	98° 28' 43.94"
	3098.30000	3+ 98.30000	198428.83788	219698.41924	98° 39' 51.27"
	3099.30000	3+ 99.30000	198428.68695	219699.40778	98° 41' 52.60"
	3100.00000	3+100.00000	198428.58095	219700.09971	98° 43' 17.53"
	3101.00000	3+101.00000	198428.42903	219701.08810	98° 45' 18.87"
	3102.20000	3+102.20000	198428.24595	219702.27406	98° 47' 44.46"
	3120.00000	3+120.00000	198425.43209	219719.85015	99° 23' 44.18"
	3140.00000	3+140.00000	198422.05109	219739.56219	100° 4' 10.82"
	3160.00000	3+160.00000	198418.43842	219759.23308	100° 44' 37.47"
	3165.00000	3+165.00000	198417.49912	219764.14406	100° 54' 44.13"
	3180.00000	3+180.00000	198414.59459	219778.86011	101° 25' 4.11"
	3200.00000	3+200.00000	198410.52013	219798.44056	102° 5' 30.76"
	3210.00000	3+210.00000	198408.39658	219808.21248	102° 25' 44.08"
	3210.45000	3+210.45000	198408.29967	219808.65192	102° 26' 38.68"
EC	3219.48012	3+219.48012	198406.33039	219817.46468	102° 44' 54.32"
EP	3219.48012	3+219.48012	198406.33039	219817.46468	

EP

EP 좌표	X	198406.33039	방위각	102 ° 44' 54.32"
	Y	219817.46467		

6.1.2 기장분기점

가. RAMP-A

BP

BP 좌표	X	198404.86737	방위각	102 ° 44' 54.32"
	Y	219817.13367		

IP1 (우향)

구 분	크 로 소 이 드		교각(IA)	2 ° 29' 33.22"	
IP좌표	X	198400.25479	방위각	1	102 ° 44' 54.32"
	Y	219837.52095		2	105 ° 14' 27.54"

R 1	1698.50000	A	168.00000	R 2	540.00000
L 1	16.61702	원중심 좌표 1		L 2	52.26667
X 1	16.61698	X	196748.23812	X 2	52.25443
Y 1	0.02709	Y 2	219442.32467	Y 2	0.84301
T 1	0.00489	원중심 좌표 2		T 2	0.04840
TL1	11.07802	X	197875.36918	TL2	34.84872
TK1	5.53902	Y 2	219709.79963	TK2	17.42611

구분	누가거리	X 좌표	Y 좌표
K A E	0.00000	198404.86737	219817.13367
K E	35.64965	198396.37668	219851.75450

구 분	누가거리	측점(STA.)	X좌표	Y좌표	방위각
KAE	0.00000	0+ 0.00000	198404.86737	219817.13367	102 ° 44' 54.32"
	10.15850	0+ 10.15850	198402.59004	219827.03359	103 ° 11' 45.05"
	10.16240	0+ 10.16240	198402.58915	219827.03739	103 ° 11' 45.81"
	10.16470	0+ 10.16470	198402.58862	219827.03963	103 ° 11' 46.26"
	20.00000	0+ 20.00000	198400.29325	219836.60328	103 ° 49' 44.74"
	20.00730	0+ 20.00730	198400.29150	219836.61037	103 ° 49' 46.69"
	20.01550	0+ 20.01550	198400.28954	219836.61833	103 ° 49' 48.89"
	20.01560	0+ 20.01560	198400.28952	219836.61843	103 ° 49' 48.91"
	20.08410	0+ 20.08410	198400.27314	219836.68494	103 ° 50' 7.27"
	30.15060	0+ 30.15060	198397.79618	219846.44184	104 ° 41' 17.56"
KE	35.64965	0+ 35.64965	198396.37668	219851.75450	105 ° 14' 27.54"

IP2 (우향)

구분	원곡선		교각(IA)	15° 54' 18.29"	
IP좌표	X	198376.54612	방위각	1	105° 14' 27.54"
	Y	219924.53730		2	121° 8' 45.83"

원 중심 좌표	X	197875.36918	R	540.00000	C L	149.90186
	Y	219709.79963	T L	75.43598	S L	5.24360

구분	누가거리	X 좌표	Y 좌표
B C	35.64965	198396.37668	219851.75450
E C	185.55151	198337.52900	219989.09929

구분	누가거리	측점(STA.)	X좌표	Y좌표	방위각
BC	35.64965	0+ 35.64965	198396.37668	219851.75450	105° 14' 27.54"
	39.05450	0+ 39.05450	198395.47126	219855.03676	105° 36' 8.10"
	40.00000	0+ 40.00000	198395.21617	219855.94719	105° 42' 9.25"
	40.02930	0+ 40.02930	198395.20824	219855.97540	105° 42' 20.44"
	40.06470	0+ 40.06470	198395.19865	219856.00948	105° 42' 33.97"
	40.25490	0+ 40.25490	198395.14712	219856.19256	105° 43' 46.62"
	50.16130	0+ 50.16130	198392.37421	219865.70282	106° 46' 50.58"
	60.00000	0+ 60.00000	198389.44803	219875.09616	107° 49' 28.69"
	60.06000	0+ 60.06000	198389.42966	219875.15328	107° 49' 51.61"
	60.13850	0+ 60.13850	198389.40561	219875.22800	107° 50' 21.59"
	60.47450	0+ 60.47450	198389.30258	219875.54782	107° 52' 29.94"
	70.20160	0+ 70.20160	198386.23372	219884.77798	108° 54' 25.41"
	70.59950	0+ 70.59950	198386.10465	219885.15437	108° 56' 57.40"
	74.00000	0+ 74.00000	198384.99028	219888.36708	109° 18' 36.30"
	78.50000	0+ 78.50000	198383.48454	219892.60768	109° 47' 15.17"
	80.00000	0+ 80.00000	198382.97478	219894.01840	109° 56' 48.13"
	80.09940	0+ 80.09940	198382.94086	219894.11184	109° 57' 26.09"
	80.24140	0+ 80.24140	198382.89238	219894.24530	109° 58' 20.33"
	80.73810	0+ 80.73810	198382.72251	219894.71205	110° 1' 30.06"
	83.27520	0+ 83.27520	198381.84813	219897.09372	110° 17' 39.16"
	83.60000	0+ 83.60000	198381.73538	219897.39832	110° 19' 43.23"
	84.00000	0+ 84.00000	198381.59628	219897.77336	110° 22' 16.01"
	91.00000	0+ 91.00000	198379.11712	219904.31958	111° 6' 49.82"
	100.00000	0+100.00000	198375.80531	219912.68798	112° 4' 7.56"
	100.15170	0+100.15170	198375.74829	219912.82855	112° 5' 5.51"
	100.15180	0+100.15180	198375.74826	219912.82865	112° 5' 5.55"
	100.38670	0+100.38670	198375.65989	219913.04629	112° 6' 35.27"
	101.06660	0+101.06660	198375.40359	219913.67603	112° 10' 54.98"
	110.44020	0+110.44020	198371.78944	219922.32474	113° 10' 35.43"
	120.00000	0+120.00000	198367.94945	219931.07927	114° 11' 27.00"

부산외곽순환 고속도로 건설공사 실시설계

	120.22080	0+120.22080	198367.85893	219931.28066	114° 12' 51.34"
	120.22090	0+120.22090	198367.85889	219931.28075	114° 12' 51.38"
	120.58770	0+120.58770	198367.70833	219931.61523	114° 15' 11.49"
	121.48090	0+121.48090	198367.34076	219932.42929	114° 20' 52.66"
	130.67360	0+130.67360	198363.47972	219940.77172	115° 19' 24.02"
	140.00000	0+140.00000	198359.41797	219949.16706	116° 18' 46.44"
	140.31070	0+140.31070	198359.28017	219949.44553	116° 20' 45.12"
	140.31080	0+140.31080	198359.28012	219949.44562	116° 20' 45.16"
	140.85730	0+140.85730	198359.03735	219949.93523	116° 24' 13.90"
	142.00140	0+142.00140	198358.52748	219950.95944	116° 31' 30.92"
	150.98970	0+150.98970	198354.44663	219958.96783	117° 28' 44.19"
	160.00000	0+160.00000	198350.22258	219966.92654	118° 26' 5.88"
	160.42530	0+160.42530	198350.01992	219967.30045	118° 28' 48.33"
	161.09590	0+161.09590	198349.69978	219967.88970	118° 33' 4.48"
	161.10500	0+161.10500	198349.69543	219967.89769	118° 33' 7.95"
	162.52180	0+162.52180	198349.01663	219969.14129	118° 42' 9.13"
	171.12380	0+171.12380	198344.82549	219976.65310	119° 36' 54.85"
	180.00000	0+180.00000	198340.37589	219984.33335	120° 33' 25.31"
	180.64860	0+180.64860	198340.04581	219984.89167	120° 37' 33.06"
	180.99780	0+180.99780	198339.86782	219985.19211	120° 39' 46.44"
	182.76950	0+182.76950	198338.96178	219986.71461	120° 51' 3.18"
EC	185.55151	0+185.55151	198337.52900	219989.09929	121° 8' 45.83"

IP3 (우향)

구 분	크 로 소 이 드		교각(1A)	2° 12' 37.75"	
IP좌표	X	198330.34435	방위각	1	121° 8' 45.83"
	Y	220000.98780		2	123° 21' 23.58"

R 1	540.00000	A	150.00000	R 2	0.00000
L 1	41.66667	원중심 좌표 1		L 2	0.00000
X 1	41.66047	X	197875.36918	X 2	0.00000
Y 1	0.53578	Y 2	219709.79963	Y 2	0.00000
T 1	0.03858	원중심 좌표 2		T 2	0.00000
TL1	27.77994	X	0.00000	TL2	0.00000
TK1	13.89086	Y 2	0.00000	TK2	0.00000

구분	누가거리	X 좌표	Y 좌표
K E	185.55151	198337.52900	219989.09929
K A	227.21818	198315.06962	220024.19142

구 분	누가거리	측점(STA.)	X좌표	Y좌표	방위각
KE	185.55151	0+185.55151	198337.52900	219989.09929	121° 8' 45.83"

	191.20140	0+191.20140	198334.58265	219993.92008	121° 42' 17.62"
	200.00000	0+200.00000	198329.91030	220001.37552	122° 24' 47.87"
	200.63270	0+200.63270	198329.57096	220001.90952	122° 27' 23.91"
	201.60010	0+201.60010	198329.05133	220002.72551	122° 31' 15.39"
	202.80120	0+202.80120	198328.40493	220003.73784	122° 35' 50.85"
	203.80210	0+203.80210	198327.86526	220004.58079	122° 39' 30.30"
	205.80360	0+205.80360	198326.78349	220006.26476	122° 46' 21.59"
	211.11440	0+211.11440	198323.89837	220010.72353	123° 1' 34.89"
	214.00000	0+214.00000	198322.32330	220013.14135	123° 8' 2.72"
	217.00000	0+217.00000	198320.68145	220015.65219	123° 13' 25.00"
	218.20000	0+218.20000	198320.02370	220016.65587	123° 15' 10.80"
	220.00000	0+220.00000	198319.03619	220018.16080	123° 17' 24.76"
	220.43770	0+220.43770	198318.79592	220018.52666	123° 17' 52.85"
	222.00000	0+222.00000	198317.93794	220019.83228	123° 19' 18.77"
	224.30000	0+224.30000	198316.67402	220021.75387	123° 20' 44.55"
	226.30000	0+226.30000	198315.57447	220023.42450	123° 21' 19.72"
KA	227.21818	0+227.21818	198315.06962	220024.19142	123° 21' 23.58"

IP4 (좌향)

구분	크로소이드		교각(IA)	4° 29' 35.51"	
IP좌표	X	198300.69178	방위각	1	123° 21' 23.58"
	Y	220046.03259		2	118° 51' 48.07"

R 1	0.00000	A	99.00825	R 2	250.00000
L 1	0.00000	원중심 좌표 1		L 2	39.21053
X 1	0.00000	X	0.00000	X 2	39.18643
Y 1	0.00000	Y 2	0.00000	Y 2	1.02453
T 1	0.00000	원중심 좌표 2		T 2	0.07842
TL1	0.00000	X	198513.32217	TL2	26.14878
TK1	0.00000	Y 2	220178.16640	TK2	13.07784

구분	누가거리	X 좌표	Y 좌표
K A	227.21818	198315.06962	220024.19142
K E	266.42871	198294.37881	220057.48581

구분	누가거리	측점(STA.)	X좌표	Y좌표	방위각
KA	227.21818	0+227.21818	198315.06962	220024.19142	123° 21' 23.58"
	240.00000	0+240.00000	198308.07127	220034.88708	122° 52' 44.73"
	240.56640	0+240.56640	198307.76397	220035.36287	122° 50' 9.02"
	242.82290	0+242.82290	198306.54350	220037.26082	122° 38' 41.67"
	247.50000	0+247.50000	198304.03668	220041.20937	122° 9' 15.79"
	260.00000	0+260.00000	198297.55022	220051.89398	120° 12' 57.33"

부산외곽순환 고속도로 건설공사 실시설계

	260.29590	0+260.29590	198297.40143	220052.14975	120 ° 9' 32.30"
	261.38380	0+261.38380	198296.85662	220053.09140	119 ° 56' 42.66"
	262.86580	0+262.86580	198296.12021	220054.37749	119 ° 38' 34.13"
KE	266.42871	0+266.42871	198294.37881	220057.48581	118 ° 51' 48.07"

IP5 (좌향)

구 분	원 곡 선		교각(IA)	34 ° 19' 39.98"	
IP좌표	X	198257.10527	방위각	1	118 ° 51' 48.07"
	Y	220125.10890		2	84 ° 32' 8.10"

원 중심 좌표	X	198513.32217	R	250.00000	C L	149.78316
	Y	220178.16640	T L	77.21528	S L	11.65282

구분	누가거리	X 좌표	Y 좌표
B C	266.42871	198294.37881	220057.48581
E C	416.21187	198264.45829	220201.97329

구 분	누가거리	측점(STA.)	X좌표	Y좌표	방위각
BC	266.42871	0+266.42871	198294.37881	220057.48581	118° 51' 48.07"
	270.51900	0+270.51900	198292.43373	220061.08397	117° 55' 33.35"
	271.01440	0+271.01440	198292.20215	220061.52191	117° 48' 44.61"
	276.56600	0+276.56600	198289.66663	220066.46054	116° 32' 24.21"
	278.96880	0+278.96880	198288.60335	220068.61527	115° 59' 21.76"
	279.80430	0+279.80430	198288.23848	220069.36689	115° 47' 52.42"
	280.00000	0+280.00000	198288.15338	220069.54312	115° 45' 10.96"
	280.52110	0+280.52110	198287.92746	220070.01269	115° 38' 1.02"
	280.66120	0+280.66120	198287.86689	220070.13902	115° 36' 5.43"
	280.70500	0+280.70500	198287.84796	220070.17852	115° 35' 29.29"
	281.98250	0+281.98250	198287.29909	220071.33210	115° 17' 55.28"
	282.54190	0+282.54190	198287.06060	220071.83812	115° 10' 13.74"
	283.04940	0+283.04940	198286.84522	220072.29765	115° 3' 15.02"
	283.12340	0+283.12340	198286.81390	220072.36469	115° 2' 13.97"
	283.76020	0+283.76020	198286.54513	220072.94199	114° 53' 28.57"
	284.41660	0+284.41660	198286.26964	220073.53778	114° 44' 27.00"
	284.77630	0+284.77630	198286.11933	220073.86457	114° 39' 30.23"
	285.00000	0+285.00000	198286.02610	220074.06792	114° 36' 25.66"
	286.30180	0+286.30180	198285.48712	220075.25290	114° 18' 31.60"
	288.03850	0+288.03850	198284.77770	220076.83809	113° 54' 38.72"
	288.67230	0+288.67230	198284.52155	220077.41783	113° 45' 55.80"
	290.00000	0+290.00000	198283.98972	220078.63435	113° 27' 40.37"
	290.15160	0+290.15160	198283.92941	220078.77344	113° 25' 35.29"
	290.16890	0+290.16890	198283.92253	220078.78931	113° 25' 21.01"

	290.28320	0+290.28320	198283.87712	220078.89421	113° 23' 46.71"
	290.45100	0+290.45100	198283.81054	220079.04823	113° 21' 28.27"
	290.59900	0+290.59900	198283.75190	220079.18412	113° 19' 26.16"
	290.87890	0+290.87890	198283.64123	220079.44121	113° 15' 35.22"
	291.00750	0+291.00750	198283.59047	220079.55937	113° 13' 49.12"
	291.00780	0+291.00780	198283.59035	220079.55965	113° 13' 48.87"
	291.07510	0+291.07510	198283.56382	220079.62149	113° 12' 53.35"
	291.30230	0+291.30230	198283.47435	220079.83034	113° 9' 45.89"
	291.40540	0+291.40540	198283.43382	220079.92514	113° 8' 20.83"
	291.59640	0+291.59640	198283.35883	220080.10080	113° 5' 43.24"
	292.01660	0+292.01660	198283.19433	220080.48746	112° 59' 56.55"
	292.10670	0+292.10670	198283.15914	220080.57040	112° 58' 42.21"
	292.38950	0+292.38950	198283.04889	220080.83083	112° 54' 48.89"
	292.82240	0+292.82240	198282.88068	220081.22971	112° 48' 51.72"
	292.86650	0+292.86650	198282.86359	220081.27037	112° 48' 15.33"
	293.09500	0+293.09500	198282.77512	220081.48104	112° 45' 6.81"
	293.22220	0+293.22220	198282.72596	220081.59836	112° 43' 21.86"
	293.39070	0+293.39070	198282.66092	220081.75380	112° 41' 2.84"
	293.81310	0+293.81310	198282.49835	220082.14367	112° 35' 14.33"
	293.92480	0+293.92480	198282.45547	220082.24681	112° 33' 42.17"
	294.18830	0+294.18830	198282.35450	220082.49019	112° 30' 4.77"
	294.20000	0+294.20000	198282.35003	220082.50100	112° 29' 55.12"
	294.32530	0+294.32530	198282.30211	220082.61678	112° 28' 11.74"
	294.49730	0+294.49730	198282.23642	220082.77574	112° 25' 49.83"
	294.83710	0+294.83710	198282.10698	220083.08992	112° 21' 9.47"
	295.02560	0+295.02560	198282.03536	220083.26429	112° 18' 33.95"
	295.32310	0+295.32310	198281.92259	220083.53959	112° 14' 28.49"
	295.39990	0+295.39990	198281.89353	220083.61068	112° 13' 25.13"
	295.54620	0+295.54620	198281.83824	220083.74612	112° 11' 24.42"
	295.73230	0+295.73230	198281.76802	220083.91847	112° 8' 50.88"
	295.80470	0+295.80470	198281.74073	220083.98553	112° 7' 51.15"
	295.90210	0+295.90210	198281.70406	220084.07576	112° 6' 30.78"
	296.13940	0+296.13940	198281.61485	220084.29565	112° 3' 15.00"
	296.37910	0+296.37910	198281.52495	220084.51786	111° 59' 57.23"
	296.61830	0+296.61830	198281.43546	220084.73968	111° 56' 39.88"
	297.04360	0+297.04360	198281.27685	220085.13431	111° 50' 48.98"
	297.21600	0+297.21600	198281.21275	220085.29435	111° 48' 26.74"
	297.53800	0+297.53800	198281.09333	220085.59338	111° 44' 1.07"
	297.72110	0+297.72110	198281.02559	220085.76349	111° 41' 30.00"
	297.96190	0+297.96190	198280.93669	220085.98728	111° 38' 11.33"
	297.99520	0+297.99520	198280.92442	220086.01823	111° 37' 43.85"
	298.20090	0+298.20090	198280.84868	220086.20948	111° 34' 54.14"
	298.40460	0+298.40460	198280.77383	220086.39893	111° 32' 6.07"
	298.55170	0+298.55170	198280.71987	220086.53578	111° 30' 4.71"
	298.79970	0+298.79970	198280.62909	220086.76657	111° 26' 40.09"

부산외곽순환 고속도로 건설공사 실시설계

	299.11530	0+299.11530	198280.51389	220087.06039	111° 22' 19.70"
	299.63040	0+299.63040	198280.32667	220087.54026	111° 15' 14.72"
	299.79340	0+299.79340	198280.26763	220087.69219	111° 13' 0.23"
	300.00000	0+300.00000	198280.19294	220087.88482	111° 10' 9.77"
	300.09850	0+300.09850	198280.15739	220087.97668	111° 8' 48.51"
	300.23880	0+300.23880	198280.10681	220088.10755	111° 6' 52.75"
	300.38670	0+300.38670	198280.05358	220088.24553	111° 4' 50.72"
	300.49420	0+300.49420	198280.01493	220088.34585	111° 3' 22.03"
	301.07270	0+301.07270	198279.80771	220088.88596	110° 55' 24.73"
	301.38080	0+301.38080	198279.69786	220089.17381	110° 51' 10.53"
	301.47220	0+301.47220	198279.66534	220089.25923	110° 49' 55.12"
	301.62310	0+301.62310	198279.61172	220089.40028	110° 47' 50.62"
	301.72300	0+301.72300	198279.57627	220089.49368	110° 46' 28.20"
	301.94310	0+301.94310	198279.49829	220089.69950	110° 43' 26.60"
	302.38950	0+302.38950	198279.34070	220090.11716	110° 37' 18.30"
	303.23350	0+303.23350	198279.04477	220090.90758	110° 25' 41.95"
	303.45500	0+303.45500	198278.96756	220091.11519	110° 22' 39.19"
	303.52310	0+303.52310	198278.94385	220091.17903	110° 21' 43.01"
	303.63220	0+303.63220	198278.90591	220091.28132	110° 20' 12.99"
	303.71410	0+303.71410	198278.87746	220091.35812	110° 19' 5.42"
	303.96890	0+303.96890	198278.78911	220091.59711	110° 15' 35.20"
	304.11310	0+304.11310	198278.73921	220091.73240	110° 13' 36.22"
	304.11320	0+304.11320	198278.73918	220091.73250	110° 13' 36.14"
	304.13990	0+304.13990	198278.72995	220091.75755	110° 13' 14.11"
	304.24870	0+304.24870	198278.69237	220091.85965	110° 11' 44.35"
	304.41870	0+304.41870	198278.63373	220092.01922	110° 9' 24.09"
	304.55710	0+304.55710	198278.58608	220092.14916	110° 7' 29.90"
	305.39580	0+305.39580	198278.29883	220092.93713	109° 55' 57.92"
	305.43180	0+305.43180	198278.28656	220092.97098	109° 55' 28.22"
	305.49930	0+305.49930	198278.26356	220093.03444	109° 54' 32.53"
	305.58170	0+305.58170	198278.23552	220093.11192	109° 53' 24.54"
	305.61480	0+305.61480	198278.22426	220093.14305	109° 52' 57.23"
	305.82710	0+305.82710	198278.15214	220093.34272	109° 50' 2.07"
	305.84820	0+305.84820	198278.14498	220093.36257	109° 49' 44.66"
	305.94210	0+305.94210	198278.11315	220093.45091	109° 48' 27.19"
	305.98330	0+305.98330	198278.09919	220093.48967	109° 47' 53.20"
	305.98340	0+305.98340	198278.09915	220093.48977	109° 47' 53.12"
	306.29090	0+306.29090	198277.99518	220093.77916	109° 43' 39.41"
	306.31750	0+306.31750	198277.98620	220093.80419	109° 43' 17.46"
	306.31760	0+306.31760	198277.98617	220093.80429	109° 43' 17.38"
	306.52990	0+306.52990	198277.91461	220094.00417	109° 40' 22.22"
	306.67600	0+306.67600	198277.86547	220094.14175	109° 38' 21.68"
	307.15640	0+307.15640	198277.70444	220094.59436	109° 31' 45.32"
	307.31050	0+307.31050	198277.65297	220094.73961	109° 29' 38.18"
	307.44310	0+307.44310	198277.60876	220094.86462	109° 27' 48.78"

	307.49190	0+307.49190	198277.59250	220094.91064	109° 27' 8.51"
	307.49470	0+307.49470	198277.59157	220094.91328	109° 27' 6.20"
	307.72960	0+307.72960	198277.51345	220095.13480	109° 23' 52.40"
	307.84470	0+307.84470	198277.47525	220095.24338	109° 22' 17.43"
	308.08150	0+308.08150	198277.39681	220095.46681	109° 19' 2.06"
	308.15400	0+308.15400	198277.37283	220095.53523	109° 18' 2.24"
	308.41230	0+308.41230	198277.28759	220095.77906	109° 14' 29.13"
	308.41570	0+308.41570	198277.28646	220095.78227	109° 14' 26.32"
	308.56280	0+308.56280	198277.23803	220095.92117	109° 12' 24.96"
	308.62840	0+308.62840	198277.21646	220095.98312	109° 11' 30.83"
	308.65200	0+308.65200	198277.20870	220096.00541	109° 11' 11.36"
	308.77230	0+308.77230	198277.16919	220096.11904	109° 9' 32.11"
	308.88390	0+308.88390	198277.13259	220096.22446	109° 8' 0.03"
	309.04630	0+309.04630	198277.07941	220096.37791	109° 5' 46.04"
	309.38410	0+309.38410	198276.96911	220096.69719	109° 1' 7.34"
	309.56200	0+309.56200	198276.91120	220096.86540	108° 58' 40.56"
	309.74480	0+309.74480	198276.85182	220097.03829	108° 56' 9.74"
	309.96510	0+309.96510	198276.78042	220097.24670	108° 53' 7.98"
	310.05040	0+310.05040	198276.75282	220097.32741	108° 51' 57.60"
	310.09400	0+310.09400	198276.73873	220097.36867	108° 51' 21.63"
	310.19090	0+310.19090	198276.70743	220097.46038	108° 50' 1.68"
	310.31040	0+310.31040	198276.66888	220097.57349	108° 48' 23.08"
	310.41260	0+310.41260	198276.63595	220097.67024	108° 46' 58.76"
	310.51260	0+310.51260	198276.60377	220097.76492	108° 45' 36.26"
	310.55170	0+310.55170	198276.59120	220097.80194	108° 45' 4.00"
	310.66290	0+310.66290	198276.55548	220097.90725	108° 43' 32.25"
	310.66300	0+310.66300	198276.55544	220097.90734	108° 43' 32.17"
	310.67280	0+310.67280	198276.55230	220097.91662	108° 43' 24.08"
	310.72840	0+310.72840	198276.53446	220097.96928	108° 42' 38.21"
	310.78510	0+310.78510	198276.51627	220098.02299	108° 41' 51.43"
	311.02490	0+311.02490	198276.43951	220098.25017	108° 38' 33.58"
	311.16650	0+311.16650	198276.39428	220098.38435	108° 36' 36.75"
	311.18900	0+311.18900	198276.38710	220098.40568	108° 36' 18.19"
	311.42130	0+311.42130	198276.31309	220098.62587	108° 33' 6.53"
	311.46770	0+311.46770	198276.29833	220098.66986	108° 32' 28.24"
	311.82840	0+311.82840	198276.18388	220099.01192	108° 27' 30.64"
	311.92660	0+311.92660	198276.15281	220099.10508	108° 26' 9.62"
	312.22780	0+312.22780	198276.05773	220099.39087	108° 22' 1.12"
	312.42440	0+312.42440	198275.99585	220099.57748	108° 19' 18.91"
	312.44550	0+312.44550	198275.98922	220099.59751	108° 19' 1.50"
	312.55250	0+312.55250	198275.95561	220099.69910	108° 17' 33.22"
	312.64170	0+312.64170	198275.92763	220099.78380	108° 16' 19.62"
	312.69840	0+312.69840	198275.90986	220099.83764	108° 15' 32.84"
	312.72340	0+312.72340	198275.90203	220099.86138	108° 15' 12.22"
	313.08260	0+313.08260	198275.78977	220100.20259	108° 10' 15.85"

부산외곽순환 고속도로 건설공사 실시설계

	313.28300	0+313.28300	198275.72735	220100.39302	108° 7' 30.51"
	313.28310	0+313.28310	198275.72731	220100.39311	108° 7' 30.43"
	313.33900	0+313.33900	198275.70993	220100.44624	108° 6' 44.31"
	313.40430	0+313.40430	198275.68964	220100.50831	108° 5' 50.43"
	313.53650	0+313.53650	198275.64861	220100.63398	108° 4' 1.36"
	313.71110	0+313.71110	198275.59452	220100.79999	108° 1' 37.30"
	313.84760	0+313.84760	198275.55231	220100.92980	107° 59' 44.68"
	313.97390	0+313.97390	198275.51332	220101.04993	107° 58' 0.48"
	313.97650	0+313.97650	198275.51252	220101.05241	107° 57' 58.33"
	313.97660	0+313.97660	198275.51249	220101.05250	107° 57' 58.25"
	314.28560	0+314.28560	198275.41736	220101.34649	107° 53' 43.31"
	314.47770	0+314.47770	198275.35840	220101.52932	107° 51' 4.81"
	314.68740	0+314.68740	198275.29420	220101.72895	107° 48' 11.80"
	315.11050	0+315.11050	198275.16518	220102.13190	107° 42' 22.72"
	315.33490	0+315.33490	198275.09702	220102.34570	107° 39' 17.57"
	315.39480	0+315.39480	198275.07886	220102.40278	107° 38' 28.15"
	315.48180	0+315.48180	198275.05251	220102.48569	107° 37' 16.37"
	315.76520	0+315.76520	198274.96687	220102.75585	107° 33' 22.55"
	315.77220	0+315.77220	198274.96476	220102.76252	107° 33' 16.78"
	315.79230	0+315.79230	198274.95870	220102.78168	107° 33' 0.19"
	315.90830	0+315.90830	198274.92375	220102.89229	107° 31' 24.48"
	315.91090	0+315.91090	198274.92296	220102.89477	107° 31' 22.34"
	315.91100	0+315.91100	198274.92293	220102.89487	107° 31' 22.26"
	316.04350	0+316.04350	198274.88307	220103.02123	107° 29' 32.94"
	316.08060	0+316.08060	198274.87193	220103.05661	107° 29' 2.33"
	316.22550	0+316.22550	198274.82843	220103.19483	107° 27' 2.78"
	316.35990	0+316.35990	198274.78816	220103.32306	107° 25' 11.89"
	316.85660	0+316.85660	198274.63993	220103.79712	107° 18' 22.08"
	317.09680	0+317.09680	198274.56859	220104.02649	107° 15' 3.90"
	317.17780	0+317.17780	198274.54458	220104.10385	107° 13' 57.07"
	317.39880	0+317.39880	198274.47920	220104.31495	107° 10' 54.73"
	317.71110	0+317.71110	198274.38713	220104.61337	107° 6' 37.07"
	317.71820	0+317.71820	198274.38505	220104.62016	107° 6' 31.21"
	317.81240	0+317.81240	198274.35735	220104.71020	107° 5' 13.49"
	317.99120	0+317.99120	198274.30488	220104.88112	107° 2' 45.97"
	318.00000	0+318.00000	198274.30230	220104.88954	107° 2' 38.71"
	318.00480	0+318.00480	198274.30089	220104.89413	107° 2' 34.75"
	318.20700	0+318.20700	198274.24170	220105.08747	106° 59' 47.92"
	318.32810	0+318.32810	198274.20633	220105.20329	106° 58' 8.01"
	318.52240	0+318.52240	198274.14970	220105.38915	106° 55' 27.70"
	318.58990	0+318.58990	198274.13006	220105.45373	106° 54' 32.01"
	318.73520	0+318.73520	198274.08784	220105.59276	106° 52' 32.12"
	318.79570	0+318.79570	198274.07028	220105.65066	106° 51' 42.21"
	318.80940	0+318.80940	198274.06631	220105.66377	106° 51' 30.91"
	319.05110	0+319.05110	198273.99632	220105.89512	106° 48' 11.49"

	319.10440	0+319.10440	198273.98092	220105.94614	106° 47' 27.51"
	319.12180	0+319.12180	198273.97590	220105.96280	106° 47' 13.16"
	319.30000	0+319.30000	198273.92449	220106.13342	106° 44' 46.13"
	319.43170	0+319.43170	198273.88658	220106.25955	106° 42' 57.47"
	319.77130	0+319.77130	198273.78912	220106.58486	106° 38' 17.28"
	319.92740	0+319.92740	198273.74447	220106.73444	106° 36' 8.49"
	319.96490	0+319.96490	198273.73376	220106.77038	106° 35' 37.55"
	320.00000	0+320.00000	198273.72374	220106.80402	106° 35' 8.59"
	320.04710	0+320.04710	198273.71030	220106.84916	106° 34' 29.73"
	320.47930	0+320.47930	198273.58736	220107.26351	106° 28' 33.14"
	320.57760	0+320.57760	198273.55950	220107.35778	106° 27' 12.04"
	320.69990	0+320.69990	198273.52489	220107.47508	106° 25' 31.13"
	320.76080	0+320.76080	198273.50768	220107.53349	106° 24' 40.88"
	320.81110	0+320.81110	198273.49347	220107.58175	106° 23' 59.38"
	320.90000	0+320.90000	198273.46838	220107.66703	106° 22' 46.04"
	321.07130	0+321.07130	198273.42013	220107.83140	106° 20' 24.70"
	321.85390	0+321.85390	198273.20113	220108.58273	106° 9' 39.01"
	322.01070	0+322.01070	198273.15754	220108.73335	106° 7' 29.64"
	322.45470	0+322.45470	198273.03460	220109.15999	106° 1' 23.32"
	322.51790	0+322.51790	198273.01717	220109.22074	106° 0' 31.17"
	322.55330	0+322.55330	198273.00741	220109.25477	106° 0' 1.97"
	322.55370	0+322.55370	198273.00730	220109.25515	106° 0' 1.64"
	322.55650	0+322.55650	198273.00652	220109.25784	105° 59' 59.33"
	322.55660	0+322.55660	198273.00650	220109.25794	105° 59' 59.24"
	323.61160	0+323.61160	198272.71784	220110.27268	105° 45' 28.81"
	324.23320	0+324.23320	198272.54978	220110.87113	105° 36' 55.95"
	324.44520	0+324.44520	198272.49280	220111.07533	105° 34' 1.04"
	324.50570	0+324.50570	198272.47657	220111.13361	105° 33' 11.12"
	324.76350	0+324.76350	198272.40757	220111.38201	105° 29' 38.42"
	324.77220	0+324.77220	198272.40525	220111.39039	105° 29' 31.24"
	324.90010	0+324.90010	198272.37112	220111.51365	105° 27' 45.72"
	325.06000	0+325.06000	198272.32853	220111.66778	105° 25' 33.79"
	325.10830	0+325.10830	198272.31569	220111.71434	105° 24' 53.94"
	325.33410	0+325.33410	198272.25577	220111.93204	105° 21' 47.64"
	325.60580	0+325.60580	198272.18393	220112.19407	105° 18' 3.47"
	325.76990	0+325.76990	198272.14068	220112.35237	105° 15' 48.08"
	326.11840	0+326.11840	198272.04917	220112.68864	105° 11' 0.55"
	326.20000	0+326.20000	198272.02781	220112.76740	105° 9' 53.22"
	326.23110	0+326.23110	198272.01967	220112.79741	105° 9' 27.56"
	326.40790	0+326.40790	198271.97351	220112.96808	105° 7' 1.69"
	326.41750	0+326.41750	198271.97100	220112.97735	105° 6' 53.77"
	326.90200	0+326.90200	198271.84512	220113.44521	105° 0' 14.03"
	327.06280	0+327.06280	198271.80354	220113.60054	104° 58' 1.36"
	327.31030	0+327.31030	198271.73974	220113.83967	104° 54' 37.16"
	327.54480	0+327.54480	198271.67951	220114.06631	104° 51' 23.68"