



Relatório criado em: 28/04/2021  
Rodovia: VC-361 (AC-D)

TABELA DOS ELEMENTOS VERTICAL (AC-D)										
Elementos	Estaca	Elevação	Norte	Oeste	Grade	Comprimento (m)	Entrada	Saída	r	K
Parabola						12,00	0,25%	-1,36%	-13,366	7,481
PVC	0+000,000	1225,965	8229159,549	175664,3						
PVI	0+006,000	1225,98	8229163,421	175659,777						
PVT	0+012,000	1225,899	8229165,064	175654,054						
Linear					-1,36%	5,50				
PVT	0+012,000	1225,899	8229165,064	175654,054						
PVC	0+017,500	1225,824	8229164,348	175648,636						
Parabola						5,00	-1,36%	-2,73%	-27,455	3,642
PVC	0+017,500	1225,824	8229164,348	175648,636						
PVI	0+020,000	1225,79	8229163,337	175646,353						
PVT	0+022,500	1225,722	8229161,936	175644,287						
Linear					-2,73%	4,00				
PVT	0+022,500	1225,722	8229161,936	175644,287						
PVC	0+026,500	1225,613	8229159,001	175641,59						
Parabola						7,00	-2,73%	-1,28%	20,74	4,82
PVC	0+026,500	1225,613	8229159,001	175641,59						
PVI	0+030,000	1225,517	8229155,897	175639,992						
PVT	0+033,500	1225,472	8229152,494	175639,213						
Linear					-1,28%	1,50				
PVT	0+033,500	1225,472	8229152,494	175639,213						
PVC	0+035,000	1225,453	8229150,997	175639,143						
Parabola						10,00	-1,28%	-0,75%	5,31	18,84
PVC	0+035,000	1225,453	8229150,997	175639,143						
PVI	0+040,000	1225,389	8229146,108	175640,06						
Linear					-3,33%	15,00				
PP	0+000,000	1186,682	0	0						
PVC	0+015,000	1186,182	8227854,272	175089,93						











Relatório criado em: 28/04/2021  
Rodovia: VC-361 (Exio - 1)

TABELA DOS ELEMENTOS VERTICAL (Exio - 1)										
Elementos	Estaca	Elevação	Norte	Oeste	Grade	Comprimento (m)	Entrada	Saída	r	K
Linear					-0,39%	100,00				
PP	0+000,000	1221,168	8230031,94	174269,27						
PVI	0+100,000	1220,775	8229980,356	174354,936						
Linear					-0,55%	490,00				
PVI	0+100,000	1220,775	8229980,356	174354,936						
PVC	0+590,000	1218,074	8229721,652	174771,019						
Parabola						680,00	-0,55%	1,43%	0,291	343,476
PVC	0+590,000	1218,074	8229721,652	174771,019						
PVI	0+930,000	1216,2	8229541,647	175059,46						
PVT	1+270,000	1221,057	8229361,643	175347,902						
Linear					1,43%	280,00				
PVT	1+270,000	1221,057	8229361,643	175347,902						
PVC	1+550,000	1225,057	8229213,308	175585,38						
Parabola						160,00	1,43%	-2,39%	-2,384	41,94
PVC	1+550,000	1225,057	8229213,308	175585,38						
PVI	1+630,000	1226,2	8229153,297	175636,861						
PVT	1+710,000	1224,291	8229075,495	175650,956						
Linear					-2,39%	600,00				
PVT	1+710,000	1224,291	8229075,495	175650,956						
PVC	2+310,000	1209,973	8228529,022	175405,704						
Parabola						400,00	-2,39%	-3,49%	-0,277	361,126
PVC	2+310,000	1209,973	8228529,022	175405,704						
PVI	2+510,000	1205,2	8228347,84	175321,011						
PVT	2+710,000	1198,212	8228166,657	175236,317						
Linear					-3,49%	371,09				
PVT	2+710,000	1198,212	8228166,657	175236,317						
PVI	3+081,086	1185,246	8227830,486	175079,174						
Linear					-19,27%	7,298				
PVI	3+081,086	1185,246	8227830,486	175079,174						
PVI	3+088,384	1183,84	8227823,875	175076,084						
Linear					-5,73%	4,378				
PVI	3+088,384	1183,84	8227823,875	175076,084						
PF	3+092,762	1183,589	8227819,909	175074,23						







Relatório criado em: 28/04/2021  
Rodovia: VC-361 (Ret)

TABELA DOS ELEMENTOS VERTICAL (Ret)										
Elementos	Estaca	Elevação	Norte	Oeste	Grade	Comprimento (m)	Entrada	Saída	r	K
Parabola						12,00	0,25%	-1,36%	-13,366	7,481
PVC	0+000,000	1225,965	8229159,549	175664,3						
PVI	0+006,000	1225,98	8229163,421	175659,777						
PVT	0+012,000	1225,899	8229165,064	175654,054						
Linear					-1,36%	5,50				
PVT	0+012,000	1225,899	8229165,064	175654,054						
PVC	0+017,500	1225,824	8229164,348	175648,636						
Parabola						5,00	-1,36%	-2,73%	-27,455	3,642
PVC	0+017,500	1225,824	8229164,348	175648,636						
PVI	0+020,000	1225,79	8229163,337	175646,353						
PVT	0+022,500	1225,722	8229161,936	175644,287						
Linear					-2,73%	4,00				
PVT	0+022,500	1225,722	8229161,936	175644,287						
PVC	0+026,500	1225,613	8229159,001	175641,59						
Parabola						7,00	-2,73%	-1,28%	20,74	4,82
PVC	0+026,500	1225,613	8229159,001	175641,59						
PVI	0+030,000	1225,517	8229155,897	175639,992						
PVT	0+033,500	1225,472	8229152,494	175639,213						
Linear					-1,28%	1,50				
PVT	0+033,500	1225,472	8229152,494	175639,213						
PVC	0+035,000	1225,453	8229150,997	175639,143						
Parabola						10,00	-1,28%	-0,75%	5,31	18,84
PVC	0+035,000	1225,453	8229150,997	175639,143						
PVI	0+040,000	1225,389	8229146,108	175640,06						
PVT	0+045,000	1225,352	8229141,455	175641,889						
Linear					-0,75%	5,00				
PVT	0+045,000	1225,352	8229141,455	175641,889						
PVC	0+050,000	1225,314	8229136,745	175643,567						
Parabola						10,00	-0,75%	-1,34%	-5,89	16,97
PVC	0+050,000	1225,314	8229136,745	175643,567						





SECRETARIA DE TRANSPORTES  
SUTEC - SUPERINTENDÊNCIA TÉCNICA

Relatório criado em: 28/04/2021

Rodovia: VC-361 (CICLOVIA)

TABELA DOS ELEMENTOS VERTICAL - CICLOVIA				
Elementos	Estaca	Elevação	Norte	Oeste
PP	0+000,000	1220,882	8230022,691	174231,538
PVI	0+000,965	1220,719	8230022,151	174232,337
PVI	0+000,965	1220,719	8230022,151	174232,337
PVI	0+007,477	1220,648	8230018,5	174237,73
PVI	0+007,477	1220,648	8230018,5	174237,73
PVC	0+035,000	1220,836	8230009,748	174263,262
PVC	0+035,000	1220,836	8230009,748	174263,262
PVI	0+070,000	1221,074	8230001,894	174297,102
PVT	0+105,000	1220,876	8229983,405	174326,82
PVT	0+105,000	1220,876	8229983,405	174326,82
PVC	0+620,000	1217,961	8229713,796	174765,238
PVC	0+620,000	1217,961	8229713,796	174765,238
PVI	0+640,000	1217,847	8229703,232	174782,22
PVT	0+660,000	1217,406	8229690,058	174795,898
PVT	0+660,000	1217,406	8229690,058	174795,898
PVI	0+668,018	1217,229	8229683,195	174795,535
PVI	0+668,018	1217,229	8229683,195	174795,535
PVI	0+671,568	1217,293	8229681,314	174798,546
PVI	0+671,568	1217,293	8229681,314	174798,546
PVI	0+675,019	1217,226	8229679,485	174801,472
PVI	0+675,019	1217,226	8229679,485	174801,472



SECRETARIA DE TRANSPORTES  
SUTEC - SUPERINTENDÊNCIA TÉCNICA

Relatório criado em: 28/04/2021

Rodovia: VC-361 (CICLOVIA)

TABELA DOS ELEMENTOS VERTICAL - CICLOVIA				
Elementos	Estaca	Elevação	Norte	Oeste
PVC	0+680,000	1217,3	8229680,895	174805,148
PVC	0+680,000	1217,3	8229680,895	174805,148
PVI	0+700,000	1217,6	8229677,847	174822,795
PVT	0+720,000	1217,533	8229667,258	174839,76
PVT	0+720,000	1217,533	8229667,258	174839,762
PVC	0+915,000	1216,883	8229565,411	175005,928
PVC	0+915,000	1216,883	8229565,411	175005,928
PVI	1+090,000	1216,3	8229464,273	175147,239
PVT	1+265,000	1219,257	8229371,958	175295,91
PVT	1+265,000	1219,257	8229371,958	175295,91
PVC	1+580,000	1224,579	8229205,793	175563,518
PVC	1+580,000	1224,579	8229205,793	175563,518
PVI	1+670,000	1226,1	8229143,68	175626,377
PVT	1+760,000	1223,307	8229055,934	175631,679
PVT	1+760,000	1223,307	8229055,934	175631,679
PVC	1+900,000	1218,962	8228928,886	175572,953
PVC	1+900,000	1218,962	8228928,886	175572,953
PVI	1+960,000	1217,1	8228874,593	175547,415
PVT	2+020,000	1215,948	8228820,299	175521,876
PVT	2+020,000	1215,948	8228820,299	175521,876
PVI	2+145,003	1213,548	8228707,185	175468,669



SECRETARIA DE TRANSPORTES  
SUTEC - SUPERINTENDÊNCIA TÉCNICA

Relatório criado em: 28/04/2021

Rodovia: VC-361 (CICLOVIA)

TABELA DOS ELEMENTOS VERTICAL - CICLOVIA				
Elementos	Estaca	Elevação	Norte	Oeste
PVI	2+145,003	1213,548	8228707,185	175468,669
PVI	2+148,503	1213,618	8228704,018	175467,18
PVI	2+148,503	1213,618	8228704,018	175467,18
PVI	2+152,003	1213,513	8228700,85	175465,69
PVI	2+152,003	1213,513	8228700,85	175465,69
PVC	2+160,000	1213,538	8228695,06	175469,455
PVC	2+160,000	1213,538	8228695,06	175469,455
PVI	2+180,000	1213,6	8228676,562	175463,915
PVT	2+200,000	1213,127	8228658,442	175455,45
PVT	2+200,000	1213,127	8228658,442	175455,45
PVC	2+300,000	1210,765	8228566,846	175415,372
PVC	2+300,000	1210,765	8228566,846	175415,372
PVI	2+550,000	1204,858	8228340,359	175309,524
PVT	2+800,000	1196,02	8228113,873	175203,675
PVT	2+800,000	1196,02	8228113,873	175203,675
PVC	3+040,000	1187,535	8227896,446	175102,061
PVC	3+040,000	1187,535	8227896,446	175102,061
PVI	3+140,000	1184	8227844,877	175029,528
PVT	3+240,000	1183,316	8227846,382	174929,54
PVT	3+240,000	1183,316	8227846,382	174929,54
PVI	3+323,783	1182,743	8227847,644	174845,766



SECRETARIA DE TRANSPORTES  
SUTEC - SUPERINTENDÊNCIA TÉCNICA

Relatório criado em: 28/04/2021

Rodovia: VC-361 (CICLOVIA)

**TABELA DOS ELEMENTOS VERTICAL - CICLOVIA**

Elementos	Estaca	Elevação	Norte	Oeste
PVI	3+323,783	1182,743	8227847,644	174845,766
PVI	3+354,876	1182,736	8227832,914	174828,08
PVI	3+354,876	1182,736	8227832,914	174828,08
PF	3+369,255	1181,72	0	0



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Rodovia: VC-361 (CICLOVIA)

TABELA DOS ELEMENTOS HORIZONTAIS - CICLOVIA										
Nº do Elemento	Elementos	Tipo de ponto	Estaca	Norte	Oeste	Raio (m)	Comprimento (m)	AC	Direção da Rotação	Tangente (m)
	Tangent	PP	0+000,000	8230022,691	174231,538					
	Tangent	PC	0+015,919	8230013,767	174244,721					
	Arc	PC	0+015,919	8230013,767	174244,721					
C1	Arc	PI	0+018,100	8230012,545	174246,527	10,00	4,295	24°36'30,682"	esquerdo	2,181
	Arc	CC		8230022,048	174250,327					
	Arc	PT	0+020,214	8230012,185	174248,679					
	Tangent	PT	0+020,214	8230012,185	174248,679					
	Tangent	PC	0+060,448	8230005,554	174288,362					
	Arc	PC	0+060,448	8230005,554	174288,362					
C2	Arc	PI	0+064,408	8230004,901	174292,268	20,00	7,819	22°23'57,422"	Direita	3,96
	Arc	CC		8229985,827	174285,066					
	Arc	PT	0+068,267	8230002,809	174295,63					
	Tangent	PT	0+068,267	8230002,809	174295,63					
	Tangent	PC	0+239,613	8229912,298	174441,12					
	Arc	PC	0+239,613	8229912,298	174441,12					
C3	Arc	PI	0+244,807	8229909,554	174445,53	100,00	10,38	5°56'50,867"	Esquerda	5,195
	Arc	CC		8229997,208	174493,943					
	Arc	PT	0+249,993	8229907,282	174450,202					
	Tangent	PT	0+249,993	8229907,282	174450,202					
	Tangent	PC	0+293,016	8229888,463	174488,891					
	Arc	PC	0+293,016	8229888,463	174488,891					
C4	Arc	PI	0+298,271	8229886,164	174493,617	100,00	10,502	6°01'1,712"	Direita	5,256
	Arc	CC		8229798,537	174445,149					



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Rodovia: VC-361 (CICLOVIA)

TABELA DOS ELEMENTOS HORIZONTAIS - CICLOVIA										
Nº do Elemento	Elementos	Tipo de ponto	Estaca	Norte	Oeste	Raio (m)	Comprimento (m)	AC	Direção da Rotação	Tangente (m)
	Arc	PT	0+303,517	8229883,382	174498,076					
	Tangent	PT	0+303,517	8229883,382	174498,076					
	Tangent	PC	0+540,040	8229758,198	174698,755					
	Arc	PC	0+540,040	8229758,198	174698,755					
C5	Arc	PI	0+542,134	8229757,09	174700,532	100,00	4,188	2°23'57,494"	Direita	2,094
	Arc	CC		8229673,353	174645,828					
	Arc	PT	0+544,228	8229755,908	174702,261					
	Tangent	PT	0+544,228	8229755,908	174702,261					
	Tangent	PC	0+599,916	8229724,482	174748,234					
	Arc	PC	0+599,916	8229724,482	174748,234					
C6	Arc	PI	0+602,073	8229723,265	174750,015	100,00	4,314	2°28'19,121"	Esquerda	2,158
	Arc	CC		8229807,038	174804,666					
	Arc	PT	0+604,230	8229722,125	174751,847					
	Tangent	PT	0+604,230	8229722,125	174751,847					
	Tangent	PC	0+651,666	8229697,07	174792,127					
	Arc	PC	0+651,666	8229697,07	174792,127					
C7	Arc	PI	0+659,780	8229692,785	174799,015	8,00	12,68	90°48'13,218"	Direita	8,113
	Arc	CC		8229690,277	174787,901					
	Arc	PT	0+664,345	8229685,956	174794,634					
	Tangent	PT	0+664,345	8229685,956	174794,634					
	Tangent	PC	0+665,197	8229685,239	174794,174					
	Arc	PC	0+665,197	8229685,239	174794,174					





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TABELA DOS ELEMENTOS HORIZONTAIS - CICLOVIA										
Nº do Elemento	Elementos	Tipo de ponto	Estaca	Norte	Oeste	Raio (m)	Comprimento (m)	AC	Direção da Rotação	Tangente (m)
C8	Arc	PI	0+666,209	8229684,387	174793,627	1,00	1,58	90°41'6,467"	Esquerda	1,012
	Arc	CC		8229684,699	174795,015					
	Arc	PT	0+666,780	8229683,851	174794,486					
	Tangent	PT	0+666,780	8229683,851	174794,486					
	Tangent	PC	0+676,281	8229678,816	174802,542					
	Arc	PC	0+676,281	8229678,816	174802,542					
C9	Arc	PI	0+677,269	8229678,293	174803,38	1,00	1,56	89°18'53,533"	Esquerda	0,988
	Arc	CC		8229679,664	174803,072					
	Arc	PT	0+677,839	8229679,124	174803,914					
	Tangent	PT	0+677,839	8229679,124	174803,914					
	Tangent	PC	0+678,852	8229679,977	174804,461					
	Arc	PC	0+678,852	8229679,977	174804,461					
C10	Arc	PI	0+686,752	8229686,626	174808,727	8,00	12,47	89°16'46,224"	Direita	7,9
	Arc	CC		8229675,656	174811,194					
	Arc	PT	0+691,318	8229682,443	174815,429					
	Tangent	PT	0+691,318	8229682,443	174815,429					
	Tangent	PC	0+739,125	8229657,133	174855,987					
	Arc	PC	0+739,125	8229657,133	174855,987					
C11	Arc	PI	0+741,207	8229656,03	174857,753	100,00	4,16	2°23'8,824"	Esquerda	2,082
	Arc	CC		8229741,969	174908,929					
	Arc	PT	0+743,289	8229655,003	174859,564					
	Tangent	PT	0+743,289	8229655,003	174859,564					
	Tangent	PC	0+799,217	8229627,394	174908,203					
	Arc	PC	0+799,217	8229627,394	174908,203					





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TABELA DOS ELEMENTOS HORIZONTAIS - CICLOVIA										
Nº do Elemento	Elementos	Tipo de ponto	Estaca	Norte	Oeste	Raio (m)	Comprimento (m)	AC	Direção da Rotação	Tangente (m)
	Tangent	PT	1+775,003	8229041,995	175626,157					
	Tangent	PC	2+153,259	8228699,715	175465,155					
	Arc	PC	2+153,259	8228699,715	175465,155					
C16	Arc	PI	2+154,259	8228698,81	175464,73	1,00	1,571	90°00'15,877"	Esquerda	1
	Arc	CC		8228699,289	175466,06					
	Arc	PT	2+154,830	8228698,384	175465,635					
	Tangent	PT	2+154,830	8228698,384	175465,635					
	Tangent	PC	2+155,525	8228698,088	175466,264					
	Arc	PC	2+155,525	8228698,088	175466,264					
C17	Arc	PI	2+162,507	8228695,116	175472,583	7,00	10,978	89°51'10,835"	Direita	6,982
	Arc	CC		8228691,753	175463,285					
	Arc	PT	2+166,503	8228688,791	175469,627					
	Tangent	PT	2+166,503	8228688,791	175469,627					
	Tangent	PC	2+216,212	8228643,754	175448,588					
	Arc	PC	2+216,212	8228643,754	175448,588					
C18	Arc	PI	2+218,279	8228641,881	175447,713	100,00	4,14	2°22'8,516"	Esquerda	2,068
	Arc	CC		8228601,429	175539,19					
	Arc	PT	2+220,346	8228639,973	175446,916					
	Tangent	PT	2+220,346	8228639,973	175446,916					
	Tangent	PC	2+275,733	8228588,866	175425,568					
	Arc	PC	2+275,733	8228588,866	175425,568					
C19	Arc	PI	2+277,808	8228586,951	175424,768	100,00	4,15	2°22'40,989"	Direita	2,076
	Arc	CC		8228627,41	175333,295					

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Rodovia: VC-361 (CICLOVIA)

TABELA DOS ELEMENTOS HORIZONTAIS - CICLOVIA										
Nº do Elemento	Elementos	Tipo de ponto	Estaca	Norte	Oeste	Raio (m)	Comprimento (m)	AC	Direção da Rotação	Tangente (m)
	Arc	PT	2+279,883	8228585,07	175423,889					
	Tangent	PT	2+279,883	8228585,07	175423,889					
	Tangent	PC	3+070,544	8227868,774	175089,129					
	Arc	PC	3+070,544	8227868,774	175089,129					
C20	Arc	PI	3+097,722	8227844,152	175077,622	42,00	48,244	65°48'49,635"	Direita	27,178
	Arc	CC		8227886,557	175051,079					
	Arc	PT	3+118,788	8227844,562	175050,447					
	Tangent	PT	3+118,788	8227844,562	175050,447					
	Tangent	PC	3+337,861	8227847,86	174831,398					
	Arc	PC	3+337,861	8227847,86	174831,398					
C21	Arc	PI	3+340,884	8227847,906	174828,376	3,00	4,735	90°26'9,937"	Esquerda	3,023
	Arc	CC		8227844,861	174831,353					
	Arc	PT	3+342,597	8227844,883	174828,353					
	Tangent	PT	3+342,597	8227844,883	174828,353					
	Tangent	PC	3+353,226	8227834,254	174828,274					
	Arc	PC	3+353,226	8227834,254	174828,274					
C22	Arc	PI	3+354,977	8227832,503	174828,261	5,00	3,37	38°36'19,350"	Direita	1,751
	Arc	CC		8227834,292	174823,274					
	Arc	PT	3+356,595	8227831,143	174827,158					
	Tangent	PT	3+356,595	8227831,143	174827,158					
	Tangent	PC	3+357,838	8227830,177	174826,375					
	Arc	PC	3+357,838	8227830,177	174826,375					

