FERROCARRILES NACIONALES
DIVISION PACIFICO
VARIANTE DE PUERTO CALDAS

PERFIL

ESCALAS: H 1:2.000
V 1:200

LOCALIZO Y DIBUJO: ING. H. MORENO

CALI, MARZO DE 1.956

PENDIENTES
100
110
120
Alct L=1.00
0.20% en 200 mts
Alct L=200
+0.20%
Alct. L=2.00
Alcant L=2.00
Alc. L=2.50
0.00%
Alcont L=2.00
Alct L=150
Alct L=150
L=170 m
Alcant L=150
-0.50%
Alc L=1.00

ABSCISAS	ALINEAMIENTO	COTAS NEGRAS	COTAS ROJAS	
K353+840				
		100.18	99.78	-0.40
		100.20	99.82	-0.38
		100.19	99.86	-0.33
900		100.10	99.90	-0.20
		100.01	99.94	-0.07
		99.95	99.98	+0.03
		99.84	100.02	+0.18
		99.38	100.06	+0.68
K354		99.61	100.10	+0.49
		99.52	100.12	+0.60
		106.25	100.14	-6.11
		107.57	100.12	-7.41
		106.78	100.18	-6.60
		102.51	100.22	-2.29
	67.41	101.09	100.24	-0.85
	Δ=36°40'	100.54	100.26	-0.28
		100.53	100.28	-0.25
		100.48	100.30	-0.18
	G=5°	101.01	100.32	-0.69
100		101.64	100.34	-1.30
		102.44	100.36	-2.08
		103.19	100.38	-2.81
		102.81	100.40	-2.41
		101.11	100.42	-0.69
	R=229.26	100.14	100.44	+0.30
		98.32	100.46	+2.14
		97.76	100.48	+2.72
200		97.66	100.50	+2.84
		97.98	100.52	+2.54
		98.51	100.54	+2.03
		100.18	100.56	+0.38
	234.07	101.25	100.58	-0.67
		103.29	100.62	-2.67
		103.37	100.66	-2.71
300	300.87	103.38	100.70	-2.68
		102.82	100.72	-2.10
	Δ=54°16'	98.37	100.74	+2.37
		96.20	100.76	+4.56
		96.31	100.78	+4.47
		96.72	100.80	+4.08
	G=6°	96.69	100.82	+4.13
		98.07	100.84	+2.77
		99.30	100.86	+1.56
		103.14	100.88	-2.26
400		106.81	100.90	-5.91
	R=191.08	110.56	100.92	-9.64
		114.33	100.94	-13.39
		112.74	100.96	-11.78
		108.32	100.98	-7.34
		103.20	101.00	-2.20
		101.51	101.02	-0.45
		100.97	101.04	+0.07
		100.23	101.06	+0.83
		99.54	101.08	+1.54
500		99.23	101.10	+1.87
	505.76	98.55	101.12	+2.57
			101.14	
		97.66	101.16	+3.50
			101.18	
		96.39	101.18	+4.79
		96.50	101.18	+4.68
	576.97	96.55	101.18	+4.63
		96.38	101.18	+4.80
600		96.30	101.18	+4.88
		96.18	101.18	+5.00
	Δ=74°07'	96.13	101.18	+5.05
		96.63	101.18	+4.55
		95.94	101.18	+5.24
		96.72	101.18	+4.46
		98.39	101.18	+2.79
		98.34	101.18	+2.84
		96.59	101.18	+4.59
700		97.29	101.18	+3.89
		98.56	101.18	+2.62
	G=3°30'	100.45	101.18	+0.73
		101.12	101.18	+0.06
		101.17	101.18	+0.01
		101.38	101.18	-0.20
		101.85	101.18	-0.67
		102.79	101.18	-1.79
		103.83	101.18	-2.65
	R=327.55	105.77	101.18	-4.59
800		111.01	101.18	-9.83
		115.72	101.18	-14.54
		115.62	101.18	-14.44
		112.79	101.18	-11.61
		105.24	101.18	-4.06
		100.01	101.18	+1.17
		97.78	101.18	+3.40
		96.48	101.18	+4.70
		97.59	101.18	+3.59
		97.85	101.18	+3.33
900		102.19	101.18	-1.01
		108.09	101.18	-6.91
		110.92	101.18	-9.74
		110.62	101.18	-9.44
		106.60	101.18	-5.42
		102.93	101.18	-1.75
		100.38	101.18	+0.80
		100.08	101.18	+1.10
		99.86	101.18	+1.32
		100.40	101.18	+0.78
K355		100.73	101.18	+0.45
		100.87	101.18	+0.35
	14.49			
K 355+14.49 = 355+57.71				
		101.39	101.18	-0.21
		101.77	101.08	-0.69
100		102.01	100.98	-1.03
		99.03	100.88	+1.85
		99.69	100.78	+1.09
		99.59	100.68	+1.09
		99.55	100.58	+1.03
200		98.79	100.48	+1.69
		100.01	100.38	+0.37
		100.74	100.28	-0.46
		101.45	100.18	-1.27
		101.50	100.08	-1.42
300		101.97	99.98	-1.99
		101.34	99.88	-1.46
		101.59	99.78	-1.81
		101.83	99.68	-2.15
	371.77	101.57	99.58	-1.99
	Δ=11°34'	101.50	99.53	-1.97
		102.26	99.48	-2.78
400	G=2°20'	103.80	99.43	-4.37
		105.58	99.38	-6.20
		107.65	99.33	-8.32
	R=491.14	111.16	99.28	-11.88
		115.04	99.25	-15.81
		117.58	99.18	-18.40
	470.91	120.08	99.13	-20.95
		122.78	99.08	
		125.32	99.03	
500		127.49	98.98	
		130.13	98.93	
		131.70	98.88	
		131.34	98.83	
		130.35	98.78	
		129.54	98.73	
		128.30	98.68	
		127.00	98.63	
		125.39	98.58	
		125.08	98.53	
600		124.76	98.48	
		122.88	98.43	
		119.84	98.38	-21.46
		116.00	98.33	-17.57
		109.89	98.28	-11.61
		104.10	98.23	-5.27
		99.90	98.18	-1.72
		96.47	98.13	+1.66
		96.28	98.08	+1.80
700		96.25	97.98	+1.73
		96.38	97.88	+1.50
		96.38	97.78	+1.40
		96.39	97.68	+1.29
		96.38	97.58	+1.20
800		96.49	97.48	+0.99
		97.14	97.38	+0.24
		98.43	97.33	-1.10
	841.69	96.50	97.28	+0.58
	Δ=35°04'	96.34	97.23	+0.89
		96.45	97.18	+0.73
	G=9°10'	96.31	97.13	+0.82
		96.49	97.08	+0.59
		96.55	97.03	+0.48
		96.32	96.98	+0.66
900	R=125.14	96.61	96.93	+0.32
		96.67	96.88	+0.21
		97.02	96.83	-0.19
		97.02	96.78	-0.24
		97.02	96.73	-0.29
	954.88	97.01	96.68	-0.33
		97.01	96.63	-0.38
		97.01	96.58	-0.43