# HORIZONTAL & VERTICAL CONTROL

Curve Data
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Curve 310
P.I. Station 359+80.7676 N 2,111,453.7033 E 2,196,152.4955
Delta = 8° 17′ 17.1738″ (RT)
Degree = 4° 55′ 52.2769″
Tangent = 84.1844′
Length = 168.0752′
Radius = 1,161.9062′
External = 3.0457′
Long Chord = 167.9287′
Mid. Ord. = 3.0378′
P.C. Station 358+96.5832 N 2,111,450.7855 E 2,196,068.3616
P.T. Station 360+64.6584 N 2,111,444.4626 E 2,196,236.1713
C.C. N 2,110,289.5774 E 2,196,108.6328

Curve Data
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Curve 1210
P.I. Station 364+44.7102 N 2,111,402.7457 E 2,196,613.9266
Delta = 20° 59′ 07.4327″ (RT)
Degree = 2° 47′ 31.7183″
Tangent = 380.0518′
Length = 751.5872′
Radius = 2,052.0353′
External = 34.8974′
Long Chord = 747.3932′
Mid. Ord. = 34.3139′
P.C. Station 360+64.6584 N 2,111,444.4626 E 2,196,236.1713
P.T. Station 368+16.2456 N 2,111,228.5102 E 2,196,951.6859
C.C. N 2,109,404.8270 E 2,196,010.9264

Curve Data
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Curve 1220
P.I. Station 370+61.1119 N 2,111,116.2508 E 2,197,169.3033
Delta = 27° 00′ 00.7223″ (LT)
Degree = 5° 37′ 03.3540″
Tangent = 244.8663′
Length = 480.6360′
Radius = 1,019.9337′
External = 28.9821′
Long Chord = 476.2011′
Mid. Ord. = 28.1813′
P.C. Station 368+16.2456 N 2,111,228.5102 E 2,196,951.6859
P.T. Station 372+96.8816 N 2,111,115.0240 E 2,197,414.1665
C.C. N 2,112,134.9449 E 2,197,419.2764

Course from PT 1220 to PC 320 90° 17′ 13.3990″ Dist 784.6064′

Curve Data
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Curve 320
P.I. Station 383+01.9728 N 2,111,109.9884 E 2,198,419.2451
Delta = 12° 02′ 45.3798″ (RT)
Degree = 2° 44′ 30.4844″
Tangent = 220.4847′
Length = 439.3440′
Radius = 2,089.7131′
External = 11.5994′
Long Chord = 438.5353′
Mid. Ord. = 11.5354′
P.C. Station 380+81.4881 N 2,111,111.0931 E 2,198,198.7631
P.T. Station 385+20.8321 N 2,111,062.8944 E 2,198,634.6416
C.C. N 2,109,021.4062 E 2,198,188.2936

Course from PT 320 to PC 330 102° 19′ 58.7788″ Dist 426.6751′

Curve Data
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Curve 330
P.I. Station 391+84.0633 N 2,110,921.2329 E 2,199,282.5673
Delta = 25° 42′ 12.6818″ (LT)
Degree = 5° 31′ 33.0413″
Tangent = 236.5562′
Length = 465.1510′
Radius = 1,036.8691′
External = 26.6422′
Long Chord = 461.2603′
Mid. Ord. = 25.9748′
P.C. Station 389+47.5071 N 2,110,971.7596 E 2,199,051.4702
P.T. Station 394+12.6581 N 2,110,975.9359 E 2,199,512.7116
C.C. N 2,111,984.7007 E 2,199,272.9382

Course from PT 330 to PC 340 76° 37′ 46.0970″ Dist 296.3866′

Curve Data
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Curve 340
P.I. Station 399+36.3015 N 2,111,097.0272 E 2,200,022.1616
Delta = 13° 15′ 14.2475″ (RT)
Degree = 2° 55′ 44.9325″
Tangent = 227.2569′
Length = 452.4851′
Radius = 1,956.0562′
External = 13.1572′
Long Chord = 451.4769′
Mid. Ord. = 13.0693′
P.C. Station 397+09.0447 N 2,111,044.4746 E 2,199,801.0646
P.T. Station 401+61.5298 N 2,111,097.4895 E 2,200,249.4180
C.C. N 2,109,141.4374 E 2,200,253.3977

Course from PT 340 to PC 350 89° 53′ 00.3445″ Dist 2,715.4254′

Curve Data
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Curve 350
P.I. Station 432+57.4636 N 2,111,103.7884 E 2,203,345.3454
Delta = 2° 01′ 31.2074″ (RT)
Degree = 0° 15′ 58.1874″
Tangent = 380.5084′
Length = 760.9375′
Radius = 21,526.5615′
External = 3.3627′
Long Chord = 760.8979′
Mid. Ord. = 3.3622′
P.C. Station 428+76.9552 N 2,111,103.0142 E 2,202,964.8378
P.T. Station 436+37.8927 N 2,111,091.1144 E 2,203,725.6426
C.C. N 2,089,576.4972 E 2,203,008.6346

Course from PT 350 to PC 360 91° 54′ 31.5519″ Dist 713.1664′

Curve Data
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Curve 360
P.I. Station 448+25.5414 N 2,111,051.5561 E 2,204,912.6323
Delta = 27° 49′ 35.9406″ (RT)
Degree = 2° 59′ 28.8514″
Tangent = 474.4823′
Length = 930.2379′
Radius = 1,915.3835′
External = 57.8948′
Long Chord = 921.1225′
Mid. Ord. = 56.1962′
P.C. Station 443+51.0591 N 2,111,067.3602 E 2,204,438.4133
P.T. Station 452+81.2971 N 2,110,816.2150 E 2,205,324.6372
C.C. N 2,109,153.0394 E 2,204,374.6156

Course from PT 360 to PC 370 119° 44′ 07.4926″ Dist 2,869.9966′

Curve Data
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Curve 370
P.I. Station 486+85.2729 N 2,109,127.8584 E 2,208,280.3949
Delta = 26° 19′ 04.4479″ (LT)
Degree = 2° 30′ 30.8939″
Tangent = 533.9792′
Length = 1,049.1148′
Radius = 2,283.9910′
External = 61.5897′
Long Chord = 1,039.9162′
Mid. Ord. = 59.9725′
P.C. Station 481+51.2937 N 2,109,392.7097 E 2,207,816.7273
P.T. Station 492+00.4085 N 2,109,096.0271 E 2,208,813.4244
C.C. N 2,111,375.9564 E 2,208,949.5765

Course from PT 370 to PC 380 93° 25′ 03.0447″ Dist 219.0475′

Curve Data
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Curve 380
P.I. Station 499+21.8470 N 2,109,053.0211 E 2,209,533.5799
Delta = 7° 45′ 40.1660″ (RT)
Degree = 0° 46′ 24.9793″
Tangent = 502.3909′
Length = 1,003.2450′
Radius = 7,406.3317′
External = 17.0197′
Long Chord = 1,002.4782′
Mid. Ord. = 16.9807′
P.C. Station 494+19.4560 N 2,109,082.9694 E 2,209,032.0824
P.T. Station 504+22.7011 N 2,108,955.6230 E 2,210,026.4392
C.C. N 2,101,689.8087 E 2,208,590.5800

Course from PT 380 to PC 390 101° 10′ 43.2108″ Dist 3,931.3182′

Curve Data
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Curve 390
P.I. Station 549+79.9289 N 2,108,072.1171 E 2,214,497.2046
Delta = 8° 43′ 04.5832″ (LT)
Degree = 0° 41′ 51.9658″
Tangent = 625.9097′
Length = 1,249.4033′
Radius = 8,211.2905′
External = 23.8206′
Long Chord = 1,248.1984′
Mid. Ord. = 23.7517′
P.C. Station 543+54.0193 N 2,108,193.4617 E 2,213,883.1701
P.T. Station 556+03.4226 N 2,108,045.2439 E 2,215,122.5371
C.C. N 2,116,248.9627 E 2,215,475.0859

Course from PT 390 to PC 1200 92° 27′ 38.6276″ Dist 674.1303′

Curve Data
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Curve 1200
P.I. Station 564+90.9770 N 2,108,007.1371 E 2,216,009.2732
Delta = 7° 38′ 58.6418″ (LT)
Degree = 1° 47′ 41.2207″
Tangent = 213.4242′
Length = 426.2142′
Radius = 3,192.3504′
External = 7.1263′
Long Chord = 425.8977′
Mid. Ord. = 7.1104′
P.C. Station 562+77.5528 N 2,108,016.3004 E 2,215,796.0458
P.T. Station 567+03.7670 N 2,108,026.4391 E 2,216,221.8228
C.C. N 2,111,205.7071 E 2,215,933.1082

Course from PT 1200 to PC 1350 84° 48′ 39.9858″ Dist 372.4496′