

RAMP E_RNORTH_A

Point 630 N 1,906,540.5344 E 1,096,695.6449 Sta 0+00.00

Course from 630 to PC E_RNORTH A-1 N 3° 06' 14.07" E Dist 186.5817

Curve Data

Curve E_RNORTH A-1
 P.I. Station 3+38.60 N 1,906,878.7769 E 1,096,710.8101
 Delta = 5° 14' 56.60" (LT)
 Degree = 1° 43' 39.57"
 Tangent = 152.0188
 Length = 303.8250
 Radius = 3,316.3847
 External = 3.4823
 Long Chord = 303.7187
 Mid. Ord. = 3.4787
 P.C. Station 1+86.58 N 1,906,726.8424 E 1,096,705.7477
 P.T. Station 4+90.41 N 1,907,030.5374 E 1,096,701.9514
 C.C. N 1,906,837.2806 E 1,093,391.2023
 Back = N 1° 54' 30.05" E
 Ahead = N 3° 20' 26.55" W
 Chord Bear = N 0° 42' 58.25" W

Course from PT E_RNORTH A-1 to PC E_RNORTH A-2 N 4° 45' 26.46" W Dist 585.2900

Curve Data

Curve E_RNORTH A-2
 P.I. Station 13+18.71 N 1,907,856.0585 E 1,096,634.0826
 Delta = 19° 30' 13.48" (LT)
 Degree = 4° 03' 07.33"
 Tangent = 243.0172
 Length = 481.3321
 Radius = 1,414.0000
 External = 20.7311
 Long Chord = 479.0115
 Mid. Ord. = 20.4316
 P.C. Station 10+75.70 N 1,907,613.8111 E 1,096,653.4098
 P.T. Station 15+57.03 N 1,908,077.9530 E 1,096,534.9856
 C.C. N 1,907,501.3553 E 1,095,243.8887
 Back = N 4° 33' 41.63" W
 Ahead = N 24° 03' 55.11" W
 Chord Bear = N 14° 18' 48.37" W

Course from PT E_RNORTH A-2 to 631 N 24° 03' 55.11" W Dist 152.5095

Point 631 N 1,908,217.2065 E 1,096,472.7956 Sta 17+09.54

Course from 631 to PC E_RNORTH A-3 N 24° 03' 55.11" W Dist 263.9152

Curve Data

Curve E_RNORTH A-3
 P.I. Station 23+62.08 N 1,908,813.0273 E 1,096,206.7049
 Delta = 117° 27' 42.31" (RT)
 Degree = 24° 16' 40.34"
 Tangent = 388.6234
 Length = 483.8223
 Radius = 236.0000
 External = 218.6693
 Long Chord = 403.4367
 Mid. Ord. = 113.5022
 P.C. Station 19+73.45 N 1,908,458.1826 E 1,096,365.1769
 P.T. Station 24+57.28 N 1,908,790.0036 E 1,096,594.6457
 C.C. N 1,908,554.4181 E 1,096,580.6640
 Back = N 24° 03' 55.11" W
 Ahead = S 86° 36' 12.80" E
 Chord Bear = N 34° 39' 56.05" E

RAMP E_RNORTH_B

Curve Data

Curve E_RNORTH B-1
 P.I. Station 1+35.36 N 1,908,976.5494 E 1,095,642.7954
 Delta = 76° 31' 14.02" (RT)
 Degree = 33° 22' 51.14"
 Tangent = 135.3620
 Length = 229.2348
 Radius = 171.6426
 External = 46.9531
 Long Chord = 212.5741
 Mid. Ord. = 36.8678
 P.C. Station 0+00.00 N 1,908,890.2302 E 1,095,747.0637
 P.T. Station 2+29.23 N 1,909,098.0662 E 1,095,702.4323
 C.C. N 1,909,022.4451 E 1,095,856.5187
 Back = N 50° 22' 48.42" W
 Ahead = N 26° 08' 25.59" E
 Chord Bear = N 12° 07' 11.41" W

Curve Data

Curve E_RNORTH B-2
 P.I. Station 35+22.10 N 1,911,956.9159 E 1,097,336.4274
 Delta = 174° 07' 55.45" (RT)
 Degree = 33° 56' 59.05"
 Tangent = 3,292.8653
 Length = 512.9114
 Radius = 168.7665
 External = 3,128.4208
 Long Chord = 337.0905
 Mid. Ord. = 160.1282
 P.C. Station 2+29.23 N 1,909,098.0662 E 1,095,702.4323
 P.T. Station 7+42.15 N 1,908,945.9932 E 1,096,003.2708
 C.C. N 1,909,014.3204 E 1,095,848.9545
 Back = N 29° 45' 01.52" E
 Ahead = S 23° 52' 56.96" W
 Chord Bear = S 63° 11' 00.76" E

Curve Data

Curve E_RNORTH B-3
 P.I. Station 8+49.11 N 1,908,851.5710 E 1,095,953.0038
 Delta = 58° 34' 07.46" (RT)
 Degree = 30° 02' 20.34"
 Tangent = 106.9688
 Length = 194.9758
 Radius = 190.7381
 External = 27.9474
 Long Chord = 186.5970
 Mid. Ord. = 24.3758
 P.C. Station 7+42.15 N 1,908,945.9932 E 1,096,003.2708
 P.T. Station 9+37.12 N 1,908,845.2234 E 1,095,846.2235
 C.C. N 1,909,035.6253 E 1,095,834.9049
 Back = S 28° 01' 45.37" W
 Ahead = S 86° 35' 52.83" W
 Chord Bear = S 57° 18' 49.10" W

Curve Data

Curve E_RNORTH B-4
 P.I. Station 9+55.93 N 1,908,842.7805 E 1,095,827.5772
 Delta = 1° 03' 44.08" (RT)
 Degree = 2° 49' 27.68"
 Tangent = 18.8056
 Length = 37.6102
 Radius = 2,028.6313
 External = 0.0872
 Long Chord = 37.6096
 Mid. Ord. = 0.0872
 P.C. Station 9+37.12 N 1,908,845.2234 E 1,095,846.2235
 P.T. Station 9+74.73 N 1,908,840.6838 E 1,095,808.8888
 C.C. N 1,910,856.6663 E 1,095,582.7040
 Back = S 82° 32' 10.24" W
 Ahead = S 83° 35' 54.33" W
 Chord Bear = S 83° 04' 02.29" W

RAMP E_RNORTH_C

Curve Data

Curve E_RNORTH C-1
 P.I. Station 21+92.04 N 1,910,484.1416 E 1,093,643.3398
 Delta = 174° 49' 41.38" (LT)
 Degree = 57° 52' 28.29"
 Tangent = 2,192.0369
 Length = 302.0814
 Radius = 99.0000
 External = 2,095.2714
 Long Chord = 197.7984
 Mid. Ord. = 94.5334
 P.C. Station 0+00.00 N 1,909,075.8593 E 1,095,323.1514
 P.T. Station 3+02.08 N 1,908,930.1692 E 1,095,189.3657
 C.C. N 1,908,999.9931 E 1,095,259.5484
 Back = N 50° 01' 29.88" W
 Ahead = S 44° 51' 11.26" E
 Chord Bear = S 42° 33' 39.43" W

Curve Data

Curve E_RNORTH C-2
 P.I. Station 4+30.31 N 1,908,839.2693 E 1,095,279.8008
 Delta = 42° 50' 24.34" (LT)
 Degree = 17° 31' 46.57"
 Tangent = 128.2237
 Length = 244.3871
 Radius = 326.8515
 External = 24.2513
 Long Chord = 238.7340
 Mid. Ord. = 22.5763
 P.C. Station 3+02.08 N 1,908,930.1692 E 1,095,189.3657
 P.T. Station 5+46.47 N 1,908,834.1083 E 1,095,407.9205
 C.C. N 1,909,160.6950 E 1,095,421.0763
 Back = S 44° 51' 11.26" E
 Ahead = S 87° 41' 35.61" E
 Chord Bear = S 66° 16' 23.43" E

Curve Data

Curve E_RNORTH C-3
 P.I. Station 6+45.81 N 1,908,828.4269 E 1,095,507.0945
 Delta = 3° 10' 20.29" (LT)
 Degree = 1° 35' 49.75"
 Tangent = 99.3366
 Length = 198.6225
 Radius = 3,587.3723
 External = 1.3751
 Long Chord = 198.5971
 Mid. Ord. = 1.3746
 P.C. Station 5+46.47 N 1,908,834.1083 E 1,095,407.9205
 P.T. Station 7+45.09 N 1,908,828.2423 E 1,095,606.4310
 C.C. N 1,912,415.6084 E 1,095,613.0963
 Back = S 86° 43' 16.47" E
 Ahead = S 89° 53' 36.76" E
 Chord Bear = S 88° 18' 26.62" E