

I-290 WB

Curve Data

Curve E_I290_F-8
P.I. Station 756+39.57 N 1,897,101.5884 E 1,125,905.4277
Delta = 15° 41' 15.38" (RT)
Degree = 1° 50' 47.27"
Tangent = 427.4751
Length = 849.6026
Radius = 3,103.0000
External = 29.3065
Long Chord = 846.9512
Mid. Ord. = 29.0323
P.C. Station 752+12.10 N 1,896,942.0841 E 1,125,508.8253
P.T. Station 760+61.70 N 1,897,147.9130 E 1,126,330.3854
C.C. = N 1,894,063.1870 E 1,126,666.6509
Back = N 68° 05' 28.15" E
Ahead = N 83° 46' 43.53" E
Chord Bear = N 75° 56' 05.84" E

Curve Data

Curve E_I290_F-9
P.I. Station 764+84.56 N 1,897,193.7379 E 1,126,750.7599
Delta = 11° 18' 21.75" (RT)
Degree = 1° 20' 28.30"
Tangent = 422.8649
Length = 842.9838
Radius = 4,272.0000
External = 20.8777
Long Chord = 841.6168
Mid. Ord. = 20.7761
P.C. Station 760+61.70 N 1,897,147.9130 E 1,126,330.3854
P.T. Station 769+04.68 N 1,897,156.2594 E 1,127,171.9607
C.C. = N 1,892,901.0714 E 1,126,793.3330
Back = N 83° 46' 43.53" E
Ahead = S 84° 54' 54.71" E
Chord Bear = N 89° 25' 54.41" E

Curve Data

Curve E_I290_F-10
P.I. Station 770+15.71 N 1,897,146.4188 E 1,127,282.5531
Delta = 2° 00' 23.69" (RT)
Degree = 0° 54' 13.39"
Tangent = 111.0293
Length = 222.0359
Radius = 6,340.0000
External = 0.9721
Long Chord = 222.0246
Mid. Ord. = 0.9720
P.C. Station 769+04.68 N 1,897,156.2594 E 1,127,171.9607
P.T. Station 771+26.72 N 1,897,132.7120 E 1,127,392.7331
C.C. = N 1,890,841.2097 E 1,126,610.0460
Back = S 84° 54' 54.71" E
Ahead = S 82° 54' 31.02" E
Chord Bear = S 83° 54' 42.87" E

Course from PT E_I290_F-10 to PC E_I290_F-11 S 82° 54' 31.02" E Dist 1,753.9538

I-290 WB

Curve Data

Curve E_I290_F-11
P.I. Station 790+34.84 N 1,896,897.1500 E 1,129,286.2598
Delta = 1° 44' 54.60" (RT)
Degree = 0° 34' 01.62"
Tangent = 154.1690
Length = 308.3141
Radius = 10,103.0000
External = 1.1762
Long Chord = 308.3021
Mid. Ord. = 1.1761
P.C. Station 788+80.67 N 1,896,916.1825 E 1,129,133.2701
P.T. Station 791+88.99 N 1,896,873.4583 E 1,129,438.5975
C.C. = N 1,886,890.4653 E 1,127,886.0323
Back = S 82° 54' 31.02" E
Ahead = S 81° 09' 36.42" E
Chord Bear = S 82° 02' 03.72" E

Course from PT E_I290_F-11 to PC E_I290_F-12 S 81° 09' 36.42" E Dist 1,265.9675

Curve Data

Curve E_I290_F-12
P.I. Station 806+99.43 N 1,896,641.3431 E 1,130,931.0982
Delta = 2° 30' 51.79" (LT)
Degree = 0° 30' 51.57"
Tangent = 244.4748
Length = 488.8712
Radius = 11,140.0000
External = 2.6823
Long Chord = 488.8319
Mid. Ord. = 2.6816
P.C. Station 804+54.95 N 1,896,678.9124 E 1,130,689.5274
P.T. Station 809+43.82 N 1,896,614.4077 E 1,131,174.0847
C.C. = N 1,907,686.5876 E 1,132,401.4522
Back = S 81° 09' 36.42" E
Ahead = S 83° 40' 28.21" E
Chord Bear = S 82° 25' 02.32" E

Course from PT E_I290_F-12 to PC E_I290_F-13 S 83° 40' 28.21" E Dist 446.9408

Curve Data

Curve E_I290_F-13
P.I. Station 816+46.96 N 1,896,536.9381 E 1,131,872.9440
Delta = 7° 16' 16.12" (LT)
Degree = 1° 25' 15.42"
Tangent = 256.1992
Length = 511.7105
Radius = 4,032.2200
External = 8.1310
Long Chord = 511.3672
Mid. Ord. = 8.1146
P.C. Station 813+90.76 N 1,896,565.1652 E 1,131,618.3045
P.T. Station 819+02.48 N 1,896,541.1664 E 1,132,129.1083
C.C. = N 1,900,572.8372 E 1,132,062.5609
Back = S 83° 40' 28.21" E
Ahead = N 89° 03' 15.67" E
Chord Bear = S 87° 18' 36.27" E

I-290 WB

Curve Data

Curve E_I290_F-14
P.I. Station 821+00.75 N 1,896,544.4386 E 1,132,327.3533
Delta = 7° 13' 51.58" (RT)
Degree = 1° 49' 33.34"
Tangent = 198.2721
Length = 396.0176
Radius = 3,137.9000
External = 6.2578
Long Chord = 395.7549
Mid. Ord. = 6.2453
P.C. Station 819+02.48 N 1,896,541.1664 E 1,132,129.1083
P.T. Station 822+98.49 N 1,896,522.7318 E 1,132,524.4336
C.C. = N 1,893,403.6937 E 1,132,180.8959
Back = N 89° 03' 15.67" E
Ahead = S 83° 42' 52.75" E
Chord Bear = S 87° 19' 48.54" E

Course from PT E_I290_F-14 to PC E_I290_F-15 S 83° 42' 52.75" E Dist 2,057.0191

Curve Data

Curve E_I290_F-15
P.I. Station 847+37.03 N 1,896,255.7608 E 1,134,948.3096
Delta = 2° 04' 28.87" (LT)
Degree = 0° 16' 18.95"
Tangent = 381.5150
Length = 762.9466
Radius = 21,070.0000
External = 3.4538
Long Chord = 762.9049
Mid. Ord. = 3.4532
P.C. Station 843+55.51 N 1,896,297.5291 E 1,134,569.0879
P.T. Station 851+18.46 N 1,896,227.7485 E 1,135,328.7948
C.C. = N 1,917,240.8770 E 1,136,875.8341
Back = S 83° 42' 52.75" E
Ahead = S 85° 47' 21.62" E
Chord Bear = S 84° 45' 07.18" E

Course from PT E_I290_F-15 to PC E_I290_F-16 S 85° 47' 21.62" E Dist 1,233.4192

Point 304 N 1,896,137.1862 E 1,136,558.8848 Sta 863+51.88

Course from 304 to 305 S 86° 38' 57.70" E Dist 728.7244

Point 305 N 1,896,094.5949 E 1,137,286.3635 Sta 870+80.60

Course from 305 to PC E_I290_F-16 S 88° 02' 12.67" E Dist 734.3420

Table with project details including FILE NAME, DESIGNED, REVISED, DRAWN, CHECKED, DATE, and alignment plan information.



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ALIGNMENT PLAN I-290 MAINLINE CURVE DATA

Table with project details including F.A.I. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., and CONTRACT NO.