

I-290 EB

Curve Data

Curve E I290 E-15
 P.I. Station = 963+35.57 N 1,896,539.3106 E 1,146,500.0456
 Delta = 13° 47' 01.06" (LT)
 Degree = 3° 05' 43.37"
 Tangent = 223.7284
 Length = 445.2968
 Radius = 1,851.0096
 External = 13.4718
 Long Chord = 444.2237
 Mid. Ord. = 13.3745
 P.C. Station = 961+11.84 N 1,896,465.3901 E 1,146,288.8818
 P.T. Station = 965+57.14 N 1,896,661.4134 E 1,146,687.5164
 C.C. = N 70° 42' 24.40" E
 Back = N 56° 55' 23.35" E
 Ahead = N 63° 48' 53.87" E
 Chord Bear = N 63° 48' 53.87" E

Course from PT E I290 E-15 to PC E I290 E-16 N 56° 35' 05.90" E Dist 186.6025

Curve Data

Curve E I290 E-16
 P.I. Station = 968+99.65 N 1,896,853.0865 E 1,146,971.3497
 Delta = 7° 06' 48.37" (RT)
 Degree = 2° 17' 03.01"
 Tangent = 155.9119
 Length = 311.4231
 Radius = 2,508.3846
 External = 4.8408
 Long Chord = 311.2232
 Mid. Ord. = 4.8315
 P.C. Station = 967+43.74 N 1,896,764.1754 E 1,146,843.2742
 P.T. Station = 970+55.17 N 1,896,925.4532 E 1,147,109.4496
 C.C. = N 55° 13' 52.58" E
 Back = N 62° 20' 40.95" E
 Ahead = N 58° 47' 16.76" E
 Chord Bear = N 58° 47' 16.76" E

Course from PT E I290 E-16 to PC E I290 E-17 N 65° 02' 33.53" E Dist 87.8110

Curve Data

Curve E I290 E-17
 P.I. Station = 973+70.89 N 1,897,053.6237 E 1,147,397.9698
 Delta = 12° 32' 00.27" (RT)
 Degree = 2° 45' 38.11"
 Tangent = 227.9159
 Length = 454.0126
 Radius = 2,075.4931
 External = 12.4765
 Long Chord = 453.1079
 Mid. Ord. = 12.4020
 P.C. Station = 971+42.98 N 1,896,962.5044 E 1,147,189.0610
 P.T. Station = 975+96.99 N 1,897,097.2364 E 1,147,621.6740
 C.C. = N 66° 26' 05.07" E
 Back = N 78° 58' 05.34" E
 Ahead = N 72° 42' 05.21" E
 Chord Bear = N 72° 42' 05.21" E

Curve Data

Curve E I290 E-18
 P.I. Station = 977+37.33 N 1,897,123.0057 E 1,147,759.6235
 Delta = 8° 23' 13.78" (RT)
 Degree = 2° 59' 36.95"
 Tangent = 140.3357
 Length = 280.1700
 Radius = 1,913.9443
 External = 5.1380
 Long Chord = 279.9200
 Mid. Ord. = 5.1242
 P.C. Station = 975+96.99 N 1,897,097.2364 E 1,147,621.6740
 P.T. Station = 978+77.16 N 1,897,128.3778 E 1,147,899.8564
 C.C. = N 79° 25' 08.36" E
 Back = N 87° 48' 22.14" E
 Ahead = N 83° 36' 45.25" E
 Chord Bear = N 83° 36' 45.25" E

I-290 EB

Course from PT E I290 E-18 to 155 N 88° 28' 14.41" E Dist 553.7348

Point 155 N 1,897,143.1562 E 1,148,453.3939 Sta 984+30.89

Course from 155 to 156 N 88° 39' 15.79" E Dist 1,332.6862

Point 156 N 1,897,174.4520 E 1,149,785.7126 Sta 997+63.58

Course from 156 to 157 N 88° 39' 54.28" E Dist 683.6133

Point 157 N 1,897,190.3779 E 1,150,469.1403 Sta 1004+47.19

Course from 157 to 158 N 88° 39' 05.99" E Dist 743.5806

Point 158 N 1,897,207.8750 E 1,151,212.5151 Sta 1011+90.77

Course from 158 to 159 N 88° 40' 01.62" E Dist 171.7491

Point 159 N 1,897,211.8700 E 1,151,384.2177 Sta 1013+62.52

Course from 159 to 160 N 88° 38' 04.27" E Dist 1,055.6224

Point 160 N 1,897,237.0254 E 1,152,439.5404 Sta 1024+18.15

Course from 160 to 161 N 88° 38' 15.64" E Dist 1,390.2917

Point 161 N 1,897,270.0792 E 1,153,829.4391 Sta 1038+08.44

Course from 161 to PC E I290 E-19 N 88° 38' 16.38" E Dist 368.6097

Curve Data

Curve E I290 E-19
 P.I. Station = 1044+80.07 N 1,897,290.5499 E 1,154,500.7372
 Delta = 7° 45' 11.76" (LT)
 Degree = 1° 16' 52.66"
 Tangent = 303.0188
 Length = 605.1125
 Radius = 4,471.7140
 External = 10.2550
 Long Chord = 604.6509
 Mid. Ord. = 10.2316
 P.C. Station = 1041+77.05 N 1,897,278.8415 E 1,154,197.9446
 P.T. Station = 1047+82.16 N 1,897,343.0002 E 1,154,799.1821
 C.C. = N 87° 47' 08.12" E
 Back = N 80° 01' 56.36" E
 Ahead = N 83° 54' 32.24" E
 Chord Bear = N 83° 54' 32.24" E

Course from PT E I290 E-19 to 162 N 78° 40' 41.61" E Dist 292.6393

Point 162 N 1,897,400.4508 E 1,155,086.1266 Sta 1050+74.80

Course from 162 to 163 N 78° 36' 30.27" E Dist 712.3373

Point 163 N 1,897,541.1470 E 1,155,784.4309 Sta 1057+87.14

Course from 163 to PC E I290 E-20 N 78° 36' 30.88" E Dist 493.5337

Curve Data

Curve E I290 E-20
 P.I. Station = 1063+58.63 N 1,897,652.8245 E 1,156,344.8989
 Delta = 1° 13' 03.38" (RT)
 Degree = 0° 46' 51.39"
 Tangent = 77.9605
 Length = 155.9152
 Radius = 7,336.7554
 External = 0.4142
 Long Chord = 155.9122
 Mid. Ord. = 0.4142
 P.C. Station = 1062+80.67 N 1,897,638.6252 E 1,156,268.2424
 P.T. Station = 1064+36.59 N 1,897,665.3917 E 1,156,421.8398
 C.C. = N 79° 30' 21.14" E
 Back = N 80° 43' 24.52" E
 Ahead = N 80° 06' 52.83" E
 Chord Bear = N 80° 06' 52.83" E

FILE NAME =	DESIGNED - CAC	REVISED -	benesch	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT PLAN CURVE DATA		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\expln_ABC_C3_290_ML_Data_exalign_15.dgn	DRAWN - DMS	REVISED -			290 (2828B,D, ETC., 3031,1RS-6	COOK	185	30			
USER NAME = sblenk	CHECKED - CAR	REVISED -			CONTRACT NO. 60653						
PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -			SCALE: N.T.S.	SHEET NO. 15 OF 33 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			