

**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 1,898,212.4471 E 1,145,677.3031  
 Back = N 70° 42' 24.40" E  
 Ahead = N 56° 55' 23.35" 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 1,894,703.6362 E 1,148,273.7189  
 Back = N 55° 13' 52.58" E  
 Ahead = N 62° 20' 40.95" 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 1,895,060.0964 E 1,148,018.8293  
 Back = N 66° 26' 05.07" E  
 Ahead = N 78° 58' 05.34" 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 1,895,215.8364 E 1,147,973.1232  
 Back = N 79° 25' 08.36" E  
 Ahead = N 87° 48' 22.14" 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 1,901,747.2162 E 1,154,025.1614  
 Back = N 87° 47' 08.12" E  
 Ahead = N 80° 01' 56.36" 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 1,890,424.5875 E 1,157,604.5206  
 Back = N 79° 30' 21.14" E  
 Ahead = N 80° 43' 24.52" E  
 Chord Bear = N 80° 06' 52.83" E

FILE NAME =	DESIGNED - CAG	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENT PLAN CURVE DATA</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\expln_ABC_C3_298_ML_Data_exalign_15.dgn	DRAWN - DMS	REVISED -				290	(2727, ETC., 313)RS-7	COOK	216	30
USER NAME = jma_jwaki	CHECKED - CAR	REVISED -				CONTRACT NO. 60G53				
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
			SCALE: N.T.S.	SHEET NO. 10 OF 18 SHEETS	STA. TO STA.					