

I-290 WB

Point 300 N 1,895,930.0584 E 1,111,216.0727 Sta 608+04.76

Course from 300 to PC E.I290.F-1 N 87° 31' 53.69" E Dist 1,906.7833

Curve Data

Curve E.I290.F-1
 P.I. Station = 630+64.26 N 1,896,027.3720 E 1,113,473.4742
 Delta = 8° 55' 54.11" (RT)
 Degree = 1° 16' 07.34"
 Tangent = 352.7147
 Length = 704.0003
 Radius = 4,516.0780
 External = 13.7529
 Long Chord = 703.2877
 Mid. Ord. = 13.7112
 P.C. Station = 627+11.54 N 1,896,012.1811 E 1,113,121.0867
 P.T. Station = 634+15.54 N 1,895,987.6682 E 1,113,823.9471
 C.C. = N 87° 31' 53.69" E
 Back = N 87° 31' 53.69" E
 Ahead = S 83° 32' 12.19" E
 Chord Bear = S 88° 00' 09.25" E

Course from PT E.I290.F-1 to PC E.I290.F-2 S 83° 32' 12.19" E Dist 272.5398

Curve Data

Curve E.I290.F-2
 P.I. Station = 640+60.73 N 1,895,915.0422 E 1,114,465.0301
 Delta = 8° 50' 36.90" (LT)
 Degree = 1° 11' 20.26"
 Tangent = 372.6439
 Length = 743.8075
 Radius = 4,818.9780
 External = 14.3865
 Long Chord = 743.0694
 Mid. Ord. = 14.3437
 P.C. Station = 636+88.08 N 1,895,956.9894 E 1,114,094.7547
 P.T. Station = 644+31.89 N 1,895,930.5189 E 1,114,837.3525
 C.C. = N 87° 37' 10.91" E
 Back = S 83° 32' 12.19" E
 Ahead = N 87° 37' 10.91" E
 Chord Bear = S 87° 57' 30.64" E

Course from PT E.I290.F-2 to 301 N 87° 37' 10.91" E Dist 184.8444

Point 301 N 1,895,938.1959 E 1,115,022.0373 Sta 646+16.74

Course from 301 to 302 N 87° 37' 10.91" E Dist 2,640.0615

Point 302 N 1,896,047.8434 E 1,117,659.8209 Sta 672+56.80

Course from 302 to 303 N 88° 22' 33.37" E Dist 1,312.3463

Point 303 N 1,896,085.0372 E 1,118,971.6400 Sta 685+69.14

Course from 303 to PC E.I290.F-3 N 88° 17' 49.42" E Dist 1,493.6121

Curve Data

Curve E.I290.F-3
 P.I. Station = 703+91.55 N 1,896,139.1946 E 1,120,793.2436
 Delta = 10° 28' 07.57" (LT)
 Degree = 1° 35' 47.14"
 Tangent = 328.7964
 Length = 655.7624
 Radius = 3,589.0000
 External = 15.0294
 Long Chord = 654.8506
 Mid. Ord. = 14.9667
 P.C. Station = 700+62.76 N 1,896,129.4236 E 1,120,464.5924
 P.T. Station = 707+18.52 N 1,896,208.5187 E 1,121,114.6487
 C.C. = N 88° 17' 49.42" E
 Back = N 88° 17' 49.42" E
 Ahead = N 77° 49' 41.85" E
 Chord Bear = N 83° 03' 45.64" E

Course from PT E.I290.F-3 to PC E.I290.F-4 N 77° 49' 41.85" E Dist 370.0279

I-290 WB

Curve Data

Curve E.I290.F-4
 P.I. Station = 714+12.62 N 1,896,354.8654 E 1,121,793.1510
 Delta = 10° 22' 26.28" (RT)
 Degree = 1° 36' 17.73"
 Tangent = 324.0777
 Length = 646.3838
 Radius = 3,570.0000
 External = 14.6794
 Long Chord = 645.5013
 Mid. Ord. = 14.6193
 P.C. Station = 710+88.55 N 1,896,286.5362 E 1,121,476.3584
 P.T. Station = 717+34.93 N 1,896,365.0322 E 1,122,117.0692
 C.C. = N 83° 00' 55.00" E
 Back = N 77° 49' 41.85" E
 Ahead = N 88° 12' 08.14" E
 Chord Bear = N 83° 00' 55.00" E

Course from PT E.I290.F-4 to PC E.I290.F-5 N 88° 12' 08.14" E Dist 1,408.2717

Curve Data

Curve E.I290.F-5
 P.I. Station = 737+09.83 N 1,896,425.2904 E 1,124,091.0484
 Delta = 16° 11' 11.81" (LT)
 Degree = 1° 26' 16.45"
 Tangent = 566.6289
 Length = 1,125.7104
 Radius = 3,984.6786
 External = 40.0862
 Long Chord = 1,121.9706
 Mid. Ord. = 39.6870
 P.C. Station = 731+43.20 N 1,896,409.2115 E 1,123,524.6477
 P.T. Station = 742+68.91 N 1,896,598.6255 E 1,124,630.5141
 C.C. = N 80° 16' 50.27" E
 Back = N 88° 22' 26.18" E
 Ahead = N 72° 11' 14.37" E
 Chord Bear = N 80° 16' 50.27" E

Curve Data

Curve E.I290.F-6
 P.I. Station = 744+50.64 N 1,896,657.2491 E 1,124,802.5261
 Delta = 3° 43' 50.11" (LT)
 Degree = 1° 01' 36.43"
 Tangent = 181.7275
 Length = 363.3265
 Radius = 5,580.1085
 External = 2.9584
 Long Chord = 363.2623
 Mid. Ord. = 2.9568
 P.C. Station = 742+68.91 N 1,896,598.6255 E 1,124,630.5141
 P.T. Station = 746+32.24 N 1,896,726.9404 E 1,124,970.3593
 C.C. = N 901,880.4135 E 1,122,830.4232
 Back = N 71° 10' 49.19" E
 Ahead = N 67° 26' 59.08" E
 Chord Bear = N 69° 18' 54.14" E

Curve Data

Curve E.I290.F-7
 P.I. Station = 747+95.74 N 1,896,787.8134 E 1,125,122.1093
 Delta = 0° 21' 27.56" (RT)
 Degree = 0° 06' 33.74"
 Tangent = 163.5041
 Length = 327.0070
 Radius = 52,385.8460
 External = 0.2552
 Long Chord = 327.0065
 Mid. Ord. = 0.2552
 P.C. Station = 746+32.24 N 1,896,726.9404 E 1,124,970.3593
 P.T. Station = 749+59.24 N 1,896,847.7379 E 1,125,274.2363
 C.C. = N 1,848,107.0350 E 1,144,473.7347
 Back = N 68° 08' 32.35" E
 Ahead = N 68° 29' 59.91" E
 Chord Bear = N 68° 19' 16.13" E

Course from PT E.I290.F-7 to PC E.I290.F-8 N 68° 05' 28.15" E Dist 252.8502

FILE NAME =	DESIGNED - AJP	REVISED -	benesch	ALIGNMENT PLAN				F.A.I.	SECTION	COUNTY	TOTAL SHEET	SHEET NO.
...\\expln\ABC\C2.290.M...Data\exalignr...19.dgn	DRAWN - TMB	REVISED -						290	(3031.1, ETC., 3838RS-5	COOK	298	46
USER NAME = tbenk	CHECKED - JMM	REVISED -		I-290 MAINLINE CURVE DATA				CONTRACT NO. 60G52				
PLOT DATE = 11/12/2009	DATE = 10/16/09	REVISED -		SCALE: N.T.S.	SHEET NO. 19 OF 36 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			