

I-290

Point 60 N 1,895,487.9128 E 1,097,931.7608 Sta 468+04.46

Course from 60 to PC E_I290_C-1 N 55° 58' 37.58" E Dist 1,349.9899

Curve Data

Curve E_I290_C-1
 P.I. Station 484+23.14 N 1,896,393.6011 E 1,099,273.3424
 Delta = 8° 04' 41.42" (RT)
 Degree = 1° 30' 20.76"
 Tangent = 268.6863
 Length = 536.4821
 Radius = 3,805.0894
 External = 9.4745
 Long Chord = 536.0379
 Mid. Ord. = 9.4510
 P.C. Station 481+54.45 N 1,896,243.2647 E 1,099,050.6514
 P.T. Station 486+90.93 N 1,896,511.1524 E 1,099,514.9496
 C.C. N 1,893,089.5530 E 1,101,179.6907
 Back = N 55° 58' 37.58" E
 Ahead = N 64° 03' 19.00" E
 Chord Bear = N 60° 00' 58.29" E

Curve Data

Curve E_I290_C-2
 P.I. Station 509+61.83 N 1,897,504.6793 E 1,101,556.9795
 Delta = 61° 17' 44.92" (RT)
 Degree = 1° 29' 41.90"
 Tangent = 2,270.8989
 Length = 4,100.1287
 Radius = 3,832.5632
 External = 622.2682
 Long Chord = 3,907.3818
 Mid. Ord. = 535.3473
 P.C. Station 486+90.93 N 1,896,511.1524 E 1,099,514.9496
 P.T. Station 527+91.06 N 1,896,190.7710 E 1,103,409.1746
 C.C. N 1,893,064.8481 E 1,101,191.7106
 Back = N 64° 03' 19.00" E
 Ahead = S 54° 38' 56.08" E
 Chord Bear = S 85° 17' 48.54" E

Course from PT E_I290_C-2 to PC E_I290_C-3 S 54° 38' 56.08" E Dist 113.3555

Curve Data

Curve E_I290_C-3
 P.I. Station 542+15.96 N 1,895,366.3477 E 1,104,571.3507
 Delta = 37° 59' 47.10" (LT)
 Degree = 1° 30' 14.66"
 Tangent = 1,311.5399
 Length = 2,526.2351
 Radius = 3,809.3752
 External = 219.4554
 Long Chord = 2,480.1973
 Mid. Ord. = 207.5014
 P.C. Station 529+04.42 N 1,896,125.1852 E 1,103,501.6299
 P.T. Station 554+30.65 N 1,895,426.8796 E 1,105,881.4929
 C.C. N 1,899,232.1954 E 1,105,705.6777
 Back = S 54° 38' 56.08" E
 Ahead = N 87° 21' 16.82" E
 Chord Bear = S 73° 38' 49.63" E

Course from PT E_I290_C-3 to PC E_I290_C-4 N 87° 21' 16.82" E Dist 1,153.6351

I-290

Curve Data

Curve E_I290_C-4
 P.I. Station 570+47.15 N 1,895,501.4865 E 1,107,496.2716
 Delta = 13° 38' 22.62" (LT)
 Degree = 1° 28' 49.38"
 Tangent = 462.8662
 Length = 921.3564
 Radius = 3,870.3310
 External = 27.5796
 Long Chord = 919.1824
 Mid. Ord. = 27.3845
 P.C. Station 565+84.29 N 1,895,480.1237 E 1,107,033.8986
 P.T. Station 575+05.64 N 1,895,631.2809 E 1,107,940.5671
 C.C. N 1,899,346.3304 E 1,106,855.2701
 Back = N 87° 21' 16.82" E
 Ahead = N 73° 42' 54.19" E
 Chord Bear = N 80° 32' 05.50" E

Course from PT E_I290_C-4 to PC E_I290_C-5 N 73° 42' 54.19" E Dist 169.6419

Curve Data

Curve E_I290_C-5
 P.I. Station 581+37.80 N 1,895,808.5470 E 1,108,547.3614
 Delta = 13° 50' 55.21" (RT)
 Degree = 1° 30' 15.97"
 Tangent = 462.5152
 Length = 920.5226
 Radius = 3,808.4566
 External = 27.9821
 Long Chord = 918.2835
 Mid. Ord. = 27.7780
 P.C. Station 576+75.28 N 1,895,678.8510 E 1,108,103.4028
 P.T. Station 585+95.81 N 1,895,828.2077 E 1,109,009.4586
 C.C. N 1,892,023.1935 E 1,109,171.3493
 Back = N 73° 42' 54.19" E
 Ahead = N 87° 33' 49.41" E
 Chord Bear = N 80° 38' 21.80" E

Course from PT E_I290_C-5 to 61 N 87° 33' 49.41" E Dist 2,208.9483

Point 61 N 1,895,922.1061 E 1,111,216.4103 Sta 608+04.76

FILE NAME =	DESIGNED - AJP	REVISED -	benesch	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT PLAN		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...\\expln_abc_c2_290_ml_data\exalignr16.dgn	DRAWN - TMB	REVISED -			I-290 MAINLINE CURVE DATA		290	(3031.1, ETC., 3838RS-5)	COOK	298	43	
USER NAME = tblank	CHECKED - JMM	REVISED -			SCALE: N.T.S.	SHEET NO. 16 OF 36 SHEETS	STA.	TO STA.	CONTRACT NO. 60G52			
PLOT DATE = 11/12/2009	DATE = 10/16/09	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							