

RAMP E_RNORTH_D

Curve Data

Curve E_RNRTH D-1
 P.I. Station = 0+86.85 N 1,908,274.8873 E 1,096,261.2227
 Delta = 30° 22' 14.75" (LT)
 Degree = 17° 54' 17.75"
 Tangent = 86.8544
 Length = 169.6223
 Radius = 320.0000
 External = 11.5776
 Long Chord = 167.6435
 Mid. Ord. = 11.1733
 P.C. Station = 0+00.00 N 1,908,346.9726 E 1,096,212.7728
 P.T. Station = 1+69.62 N 1,908,237.1901 E 1,096,339.4699
 C.C. = N 1,908,525.4781 E 1,096,478.3585
 Back = S 33° 54' 20.99" E
 Ahead = S 64° 16' 35.74" E
 Chord Bear = S 49° 05' 28.36" E

Curve Data

Curve E_RNRTH D-2
 P.I. Station = 3+46.89 N 1,908,160.2495 E 1,096,499.1738
 Delta = 63° 45' 49.23" (LT)
 Degree = 20° 06' 13.62"
 Tangent = 177.2716
 Length = 317.1725
 Radius = 285.0000
 External = 50.6340
 Long Chord = 301.0564
 Mid. Ord. = 42.9953
 P.C. Station = 1+69.62 N 1,908,237.1901 E 1,096,339.4699
 P.T. Station = 4+86.79 N 1,908,269.4869 E 1,096,638.7889
 C.C. = N 1,908,493.9466 E 1,096,463.1676
 Back = S 64° 16' 35.74" E
 Ahead = N 51° 57' 35.03" E
 Chord Bear = N 83° 50' 29.65" E

Curve Data

Curve E_RNRTH D-3
 P.I. Station = 5+65.02 N 1,908,317.6920 E 1,096,700.3993
 Delta = 39° 49' 02.07" (LT)
 Degree = 26° 31' 32.97"
 Tangent = 78.2277
 Length = 150.1075
 Radius = 216.0000
 External = 13.7293
 Long Chord = 147.1051
 Mid. Ord. = 12.9088
 P.C. Station = 4+86.79 N 1,908,269.4869 E 1,096,638.7889
 P.T. Station = 6+36.90 N 1,908,394.1695 E 1,096,716.8540
 C.C. = N 1,908,439.6037 E 1,096,505.6864
 Back = N 51° 57' 35.03" E
 Ahead = N 12° 08' 32.96" E
 Chord Bear = N 32° 03' 04.00" E

Curve Data

Curve E_RNRTH D-4
 P.I. Station = 7+72.17 N 1,908,526.4133 E 1,096,745.3072
 Delta = 11° 44' 28.13" (LT)
 Degree = 4° 21' 18.50"
 Tangent = 135.2701
 Length = 269.5929
 Radius = 1,315.5898
 External = 6.9360
 Long Chord = 269.1214
 Mid. Ord. = 6.8996
 P.C. Station = 6+36.90 N 1,908,394.1695 E 1,096,716.8540
 P.T. Station = 9+06.50 N 1,908,661.6801 E 1,096,746.2547
 C.C. = N 1,908,670.8954 E 1,095,430.6972
 Back = N 12° 08' 32.96" E
 Ahead = N 0° 24' 04.83" E
 Chord Bear = N 6° 16' 18.89" E

RAMP E_RNORTH_F

Curve Data

Curve E_RNRTH F-1
 P.I. Station = 0+05.97 N 1,907,217.6032 E 1,096,542.1533
 Delta = 0° 14' 43.34" (LT)
 Degree = 2° 03' 23.49"
 Tangent = 5.9657
 Length = 11.9314
 Radius = 2,786.0484
 External = 0.0064
 Long Chord = 11.9314
 Mid. Ord. = 0.0064
 P.C. Station = 0+00.00 N 1,907,211.7578 E 1,096,543.3453
 P.T. Station = 0+11.93 N 1,907,223.4434 E 1,096,540.9362
 C.C. = N 1,906,655.0496 E 1,093,813.4842
 Back = N 11° 31' 35.16" W
 Ahead = N 11° 46' 18.50" W
 Chord Bear = N 11° 38' 56.83" W

Curve Data

Curve E_RNRTH F-2
 P.I. Station = 4+68.54 N 1,907,671.5242 E 1,096,453.0859
 Delta = 25° 42' 41.49" (LT)
 Degree = 2° 51' 49.28"
 Tangent = 456.6115
 Length = 897.8462
 Radius = 2,000.7679
 External = 51.4422
 Long Chord = 890.3316
 Mid. Ord. = 50.1527
 P.C. Station = 0+11.93 N 1,907,223.4434 E 1,096,540.9362
 P.T. Station = 9+09.78 N 1,908,037.1274 E 1,096,179.5381
 C.C. = N 1,906,838.5034 E 1,094,577.5479
 Back = N 11° 05' 33.55" W
 Ahead = N 36° 48' 15.04" W
 Chord Bear = N 23° 56' 54.30" W

Curve Data

Curve E_RNRTH F-3
 P.I. Station = 12+81.83 N 1,908,335.0228 E 1,095,956.6501
 Delta = 33° 09' 00.59" (LT)
 Degree = 4° 35' 01.18"
 Tangent = 372.0493
 Length = 723.2244
 Radius = 1,250.0000
 External = 54.1935
 Long Chord = 713.1789
 Mid. Ord. = 51.9416
 P.C. Station = 9+09.78 N 1,908,037.1274 E 1,096,179.5381
 P.T. Station = 16+33.00 N 1,908,462.5497 E 1,095,607.1396
 C.C. = N 1,907,288.2750 E 1,095,178.6785
 Back = N 36° 48' 15.04" W
 Ahead = N 69° 57' 15.63" W
 Chord Bear = N 53° 22' 45.34" W

Course from PT E_RNRTH F-3 to PC E_RNRTH F-4 N 69° 57' 15.63" W Dist 215.5156

Curve Data

Curve E_RNRTH F-4
 P.I. Station = 19+39.39 N 1,908,567.5690 E 1,095,319.3152
 Delta = 12° 34' 24.91" (RT)
 Degree = 6° 56' 46.95"
 Tangent = 90.8696
 Length = 181.0093
 Radius = 824.8300
 External = 4.9904
 Long Chord = 180.6463
 Mid. Ord. = 4.9603
 P.C. Station = 18+48.52 N 1,908,536.4217 E 1,095,404.6800
 P.T. Station = 20+29.53 N 1,908,616.5526 E 1,095,242.7783
 C.C. = N 1,909,311.2833 E 1,095,687.4060
 Back = N 69° 57' 15.63" W
 Ahead = N 57° 22' 50.72" W
 Chord Bear = N 63° 40' 03.18" W

Course from PT E_RNRTH F-4 to PC E_RNRTH F-5 N 57° 22' 50.72" W Dist 123.0965

RAMP E_RNORTH_F

Curve Data

Curve E_RNRTH F-5
 P.I. Station = 22+85.49 N 1,908,754.5321 E 1,095,027.1854
 Delta = 29° 18' 54.75" (LT)
 Degree = 11° 16' 43.31"
 Tangent = 132.8696
 Length = 259.9166
 Radius = 508.0000
 External = 17.0889
 Long Chord = 257.0908
 Mid. Ord. = 16.5327
 P.C. Station = 21+52.62 N 1,908,682.9082 E 1,095,139.0977
 P.T. Station = 24+12.54 N 1,908,762.1899 E 1,094,894.5367
 C.C. = N 1,908,255.0343 E 1,094,865.2584
 Back = N 57° 22' 50.72" W
 Ahead = N 86° 41' 45.47" W
 Chord Bear = N 72° 02' 18.10" W

Course from PT E_RNRTH F-5 to 701 N 86° 41' 45.47" W Dist 103.7502

Point 701 N 1,908,768.1695 E 1,094,790.9589 Sta 25+16.29

FILE NAME =	DESIGNED - AJP	REVISED -	benesch	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT PLAN I-290 CURVE DATA		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\exp\in_ABC_C4_290_R_Data_exelign_58.dgn	DRAWN - TMB	REVISED -			290	2009-0998R	COOK/DUPAGE	309	30		
USER NAME = tblank	CHECKED - JMM	REVISED -			CONTRACT NO. 60157						
PLOT DATE = 11/13/2009	DATE = 10/16/09	REVISED -			SCALE: N.T.S.	SHEET NO. 16 OF 26 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	