

RAMP E_RNORTH_G

Curve Data

Curve E RNRT G-1
 P.I. Station = 1+53.54 N 1,909,461.1966 E 1,094,705.5710
 Delta = 14° 00' 20.55" (RT)
 Degree = 4° 35' 01.18"
 Tangent = 153.5439
 Length = 305.5572
 Radius = 1,250.0000
 External = 9.3950
 Long Chord = 304.7970
 Mid. Ord. = 9.3249
 P.C. Station = 0+00.00 N 1,909,531.4032 E 1,094,569.0178
 P.T. Station = 3+05.56 N 1,909,360.0287 E 1,094,821.0733
 C.C. = N 1,908,419.7250 E 1,093,997.4659
 Back = S 62° 47' 26.70" E
 Ahead = S 48° 47' 06.15" E
 Chord Bear = S 55° 47' 16.43" E

Curve Data

Curve E RNRT G-2
 P.I. Station = 4+69.57 N 1,909,251.9653 E 1,094,944.4481
 Delta = 28° 19' 21.97" (RT)
 Degree = 8° 48' 53.05"
 Tangent = 164.0092
 Length = 321.3116
 Radius = 650.0000
 External = 20.3723
 Long Chord = 318.0501
 Mid. Ord. = 19.7532
 P.C. Station = 3+05.56 N 1,909,360.0287 E 1,094,821.0733
 P.T. Station = 6+26.87 N 1,909,098.3046 E 1,095,001.7842
 C.C. = N 1,908,871.0708 E 1,094,392.7975
 Back = S 48° 47' 06.15" E
 Ahead = S 20° 27' 44.18" E
 Chord Bear = S 34° 37' 25.16" E

Course from PT E RNRT G-2 to 711 S 20° 27' 44.18" E Dist 153.1072

Point 711 N 1,908,954.8581 E 1,095,055.3090 Sta 7+79.98

Course from 711 to PC E RNRT G-3 S 23° 23' 23.29" E Dist 79.8418

Curve Data

Curve E RNRT G-3
 P.I. Station = 10+04.81 N 1,908,751.4367 E 1,095,150.9179
 Delta = 37° 21' 35.93" (LT)
 Degree = 13° 21' 38.23"
 Tangent = 144.9877
 Length = 279.6276
 Radius = 428.8407
 External = 23.8466
 Long Chord = 274.7001
 Mid. Ord. = 22.5904
 P.C. Station = 8+59.82 N 1,908,881.5773 E 1,095,087.0050
 P.T. Station = 11+39.45 N 1,908,686.7797 E 1,095,280.6904
 C.C. = N 1,909,070.6174 E 1,095,471.9312
 Back = S 26° 09' 21.60" E
 Ahead = S 63° 30' 57.53" E
 Chord Bear = S 44° 50' 09.56" E

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Curve Data

Curve E RNRT G-4
 P.I. Station = 12+35.59 N 1,908,643.9050 E 1,095,366.7439
 Delta = 41° 45' 56.26" (LT)
 Degree = 22° 44' 11.11"
 Tangent = 96.1428
 Length = 183.6948
 Radius = 252.0000
 External = 17.7173
 Long Chord = 179.6547
 Mid. Ord. = 16.5535
 P.C. Station = 11+39.45 N 1,908,686.7797 E 1,095,280.6904
 P.T. Station = 13+23.14 N 1,908,669.2448 E 1,095,459.4873
 C.C. = N 1,908,912.3346 E 1,095,393.0694
 Back = S 63° 30' 57.53" E
 Ahead = N 74° 43' 06.21" E
 Chord Bear = S 84° 23' 55.66" E

Course from PT E RNRT G-4 to PC E RNRT G-5 N 74° 43' 06.21" E Dist 110.3803

Curve Data

Curve E RNRT G-5
 P.I. Station = 15+09.21 N 1,908,718.2861 E 1,095,638.9788
 Delta = 8° 45' 42.10" (RT)
 Degree = 5° 47' 57.00"
 Tangent = 75.6902
 Length = 151.0854
 Radius = 988.0000
 External = 2.8951
 Long Chord = 150.9382
 Mid. Ord. = 2.8866
 P.C. Station = 14+33.52 N 1,908,698.3370 E 1,095,565.9648
 P.T. Station = 15+84.61 N 1,908,726.8807 E 1,095,714.1795
 C.C. = N 1,907,745.2706 E 1,095,826.3655
 Back = N 74° 43' 06.21" E
 Ahead = N 83° 28' 48.31" E
 Chord Bear = N 79° 05' 57.26" E

Course from PT E RNRT G-5 to PC E RNRT G-6 N 84° 25' 54.08" E Dist 190.4069

Curve Data

Curve E RNRT G-6
 P.I. Station = 19+04.22 N 1,908,760.6763 E 1,096,031.9793
 Delta = 4° 04' 51.07" (LT)
 Degree = 1° 34' 47.68"
 Tangent = 129.2029
 Length = 258.2966
 Radius = 3,626.5223
 External = 2.3008
 Long Chord = 258.2420
 Mid. Ord. = 2.2994
 P.C. Station = 17+75.01 N 1,908,745.3563 E 1,095,903.6879
 P.T. Station = 20+33.31 N 1,908,785.0873 E 1,096,158.8552
 C.C. = N 1,912,346.2946 E 1,095,473.6790
 Back = N 83° 11' 24.81" E
 Ahead = N 79° 06' 33.74" E
 Chord Bear = N 81° 08' 59.28" E

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.
USER NAME = tblank	DRAWN - TMB	REVISED -						290	2009-099BR	COOK/DUPAGE	309	31
DATE = 11/13/2009	CHECKED - JMM	REVISED -			CONTRACT NO. 60157							
PLOT DATE = 11/13/2009	DATE = 10/16/09	REVISED -			SCALE: N.T.S.	SHEET NO. 17 OF 26 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		