

**RAMP E\_STCHARLES\_H**

Curve Data

Curve E STCHRLS H-1  
 P.I. Station = 0+52.55 N 1,902,879.1683 E 1,096,589.3741  
 Delta = 14° 56' 29.91" (LT)  
 Degree = 14° 17' 55.41"  
 Tangent = 52.5463  
 Length = 104.4963  
 Radius = 400.7055  
 External = 3.4306  
 Long Chord = 104.2005  
 Mid. Ord. = 3.4015  
 P.C. Station = 0+00.00 N 1,902,826.7587 E 1,096,593.1627  
 P.T. Station = 1+04.50 N 1,902,928.8290 E 1,096,572.2006  
 C.C. = N 1,902,797.8677 E 1,096,193.5001  
 Back = N 4° 08' 04.70" W  
 Ahead = N 19° 04' 34.61" W  
 Chord Bear = N 11° 36' 19.65" W

Curve Data

Curve E STCHRLS H-2  
 P.I. Station = 1+51.32 N 1,902,973.1349 E 1,096,557.0675  
 Delta = 19° 02' 20.28" (LT)  
 Degree = 20° 31' 18.04"  
 Tangent = 46.8191  
 Length = 92.7749  
 Radius = 279.1964  
 External = 3.8984  
 Long Chord = 92.3487  
 Mid. Ord. = 3.8447  
 P.C. Station = 1+04.50 N 1,902,928.8290 E 1,096,572.2006  
 P.T. Station = 1+97.27 N 1,903,010.0805 E 1,096,528.3091  
 C.C. = N 1,902,838.5856 E 1,096,307.9909  
 Back = N 18° 51' 29.11" W  
 Ahead = N 37° 53' 49.39" W  
 Chord Bear = N 28° 22' 39.25" W

Curve Data

Curve E STCHRLS H-3  
 P.I. Station = 18+16.61 N 1,904,300.6121 E 1,095,550.1488  
 Delta = 168° 42' 44.72" (LT)  
 Degree = 35° 48' 13.37"  
 Tangent = 1,619.3423  
 Length = 471.2149  
 Radius = 160.0275  
 External = 1,467.2027  
 Long Chord = 318.5035  
 Mid. Ord. = 144.2898  
 P.C. Station = 1+97.27 N 1,903,010.0805 E 1,096,528.3091  
 P.T. Station = 6+68.49 N 1,902,843.5843 E 1,096,256.7884  
 C.C. = N 1,902,913.4162 E 1,096,400.7755  
 Back = N 37° 09' 37.30" W  
 Ahead = S 25° 52' 22.02" E  
 Chord Bear = S 58° 29' 00.34" W

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Curve Data

Curve E STCHRLS H-4  
 P.I. Station = 7+20.03 N 1,902,797.2042 E 1,096,279.2821  
 Delta = 28° 46' 02.36" (LT)  
 Degree = 28° 30' 19.31"  
 Tangent = 51.5469  
 Length = 100.9190  
 Radius = 201.0000  
 External = 6.5044  
 Long Chord = 99.8623  
 Mid. Ord. = 6.3005  
 P.C. Station = 6+68.49 N 1,902,843.5843 E 1,096,256.7884  
 P.T. Station = 7+69.41 N 1,902,767.3735 E 1,096,321.3204  
 C.C. = N 1,902,931.2956 E 1,096,437.6412  
 Back = S 25° 52' 22.02" E  
 Ahead = S 54° 38' 24.38" E  
 Chord Bear = S 40° 15' 23.20" E

Curve Data

Curve E STCHRLS H-5  
 P.I. Station = 7+84.41 N 1,902,758.6925 E 1,096,333.5538  
 Delta = 17° 03' 43.55" (LT)  
 Degree = 57° 17' 44.81"  
 Tangent = 15.0005  
 Length = 29.7790  
 Radius = 100.0000  
 External = 1.1188  
 Long Chord = 29.6691  
 Mid. Ord. = 1.1064  
 P.C. Station = 7+69.41 N 1,902,767.3735 E 1,096,321.3204  
 P.T. Station = 7+99.18 N 1,902,753.9830 E 1,096,347.7958  
 C.C. = N 1,902,848.9268 E 1,096,379.1914  
 Back = S 54° 38' 24.38" E  
 Ahead = S 71° 42' 07.93" E  
 Chord Bear = S 63° 10' 16.16" E

Curve Data

Curve E STCHRLS H-6  
 P.I. Station = 8+72.14 N 1,902,731.0792 E 1,096,417.0595  
 Delta = 16° 57' 20.25" (LT)  
 Degree = 11° 42' 23.73"  
 Tangent = 72.9523  
 Length = 144.8383  
 Radius = 489.4318  
 External = 5.4071  
 Long Chord = 144.3103  
 Mid. Ord. = 5.3480  
 P.C. Station = 7+99.18 N 1,902,753.9830 E 1,096,347.7958  
 P.T. Station = 9+44.02 N 1,902,729.3704 E 1,096,489.9918  
 C.C. = N 1,903,218.6679 E 1,096,501.4558  
 Back = S 71° 42' 07.93" E  
 Ahead = S 88° 39' 28.18" E  
 Chord Bear = S 80° 10' 48.05" E

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENT PLAN I-290 CURVE DATA</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\exp\in_abc_c4_290_R_Data\exalign_65.dgn	DRAWN - TMB	REVISED -				290	2009-0998R	COOK/DUPAGE	309	37
USER NAME = colank	CHECKED - JMM	REVISED -				CONTRACT NO. 60157				
PLOT DATE = 11/13/2009	DATE = 10/16/09	REVISED -				SCALE: N.T.S.	SHEET NO. 23 OF 26 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT