

**RAMP E\_1294\_A**

Point 830 N 1,899,954.4604 E 1,096,624.5778 Sta 0+00.00

Course from 830 to PC E 1294 A-1 S 1° 39' 49.37" W Dist 514.6750

Curve Data

Curve E 1294 A-1  
 P.I. Station 6+15.68 N 1,899,339.0409 E 1,096,606.7027  
 Delta = 20° 48' 43.66" (RT)  
 Degree = 10° 25' 02.69"  
 Tangent = 101.0041  
 Length = 199.7821  
 Radius = 550.0000  
 External = 9.1975  
 Long Chord = 198.6856  
 Mid. Ord. = 9.0462  
 P.C. Station 5+14.68 N 1,899,440.0023 E 1,096,609.6351  
 P.T. Station 7+14.46 N 1,899,245.7090 E 1,096,568.0894  
 C.C. N 1,899,455.9706 E 1,096,059.8670  
 Back = S 1° 39' 49.37" W  
 Ahead = S 22° 28' 33.03" W  
 Chord Bear = S 12° 04' 11.20" W

Course from PT E 1294 A-1 to PC E 1294 A-2 S 22° 28' 33.03" W Dist 156.4672

Curve Data

Curve E 1294 A-2  
 P.I. Station 12+39.64 N 1,898,774.1879 E 1,096,337.8040  
 Delta = 76° 38' 17.72" (LT)  
 Degree = 12° 16' 50.61"  
 Tangent = 368.7124  
 Length = 624.0532  
 Radius = 466.5505  
 External = 128.1075  
 Long Chord = 578.5609  
 Mid. Ord. = 100.5092  
 P.C. Station 8+70.92 N 1,899,101.1270 E 1,096,508.2730  
 P.T. Station 14+94.98 N 1,898,532.7784 E 1,096,616.4978  
 C.C. N 1,898,885.4239 E 1,096,921.9656  
 Back = S 27° 32' 16.60" W  
 Ahead = S 49° 06' 01.11" E  
 Chord Bear = S 10° 46' 52.26" E

Course from PT E 1294 A-2 to PC E 1294 A-3 S 48° 15' 01.10" E Dist 210.5982

Curve Data

Curve E 1294 A-3  
 P.I. Station 18+60.45 N 1,898,290.6871 E 1,096,890.2796  
 Delta = 21° 52' 12.44" (RT)  
 Degree = 7° 08' 51.72"  
 Tangent = 154.8721  
 Length = 305.9742  
 Radius = 801.5974  
 External = 14.8239  
 Long Chord = 304.1201  
 Mid. Ord. = 14.5547  
 P.C. Station 17+05.58 N 1,898,392.5458 E 1,096,773.6169  
 P.T. Station 20+11.55 N 1,898,152.7019 E 1,096,960.6034  
 C.C. N 1,897,788.7152 E 1,096,246.4101  
 Back = S 48° 52' 32.39" E  
 Ahead = S 27° 00' 19.96" E  
 Chord Bear = S 37° 56' 26.17" E

Curve Data

Curve E 1294 A-4  
 P.I. Station 22+26.50 N 1,897,961.0146 E 1,097,057.8663  
 Delta = 17° 17' 19.93" (RT)  
 Degree = 4° 03' 08.54"  
 Tangent = 214.9513  
 Length = 426.6357  
 Radius = 1,413.8824  
 External = 16.2461  
 Long Chord = 425.0190  
 Mid. Ord. = 16.0615  
 P.C. Station 20+11.55 N 1,898,152.7019 E 1,096,960.6034  
 P.T. Station 24+38.19 N 1,897,749.0825 E 1,097,093.7672  
 C.C. N 1,897,512.9375 E 1,095,699.7446  
 Back = S 26° 54' 12.25" E  
 Ahead = S 9° 36' 52.32" E  
 Chord Bear = S 18° 15' 32.29" E

**RAMP E\_1294\_B**

Point 840 N 1,898,075.2967 E 1,097,399.6230 Sta 0+00.00

Course from 840 to PC E 1294 B-1 S 53° 22' 26.99" E Dist 68.5069

Curve Data

Curve E 1294 B-1  
 P.I. Station 2+37.53 N 1,897,947.4162 E 1,097,599.5087  
 Delta = 95° 33' 59.21" (LT)  
 Degree = 37° 21' 45.91"  
 Tangent = 169.0220  
 Length = 255.7800  
 Radius = 153.3500  
 External = 74.8706  
 Long Chord = 227.1444  
 Mid. Ord. = 50.3084  
 P.C. Station 0+68.51 N 1,898,034.4264 E 1,097,454.6030  
 P.T. Station 3+24.29 N 1,898,100.0785 E 1,097,672.0528  
 C.C. N 1,898,165.8962 E 1,097,533.5455  
 Back = S 59° 01' 00.53" E  
 Ahead = N 25° 25' 00.27" E  
 Chord Bear = N 73° 11' 59.87" E

Curve Data

Curve E 1294 B-2  
 P.I. Station 4+35.23 N 1,898,200.2844 E 1,097,719.6699  
 Delta = 35° 07' 42.22" (LT)  
 Degree = 16° 20' 48.73"  
 Tangent = 110.9441  
 Length = 214.8937  
 Radius = 350.5000  
 External = 17.1396  
 Long Chord = 211.5437  
 Mid. Ord. = 16.3405  
 P.C. Station 3+24.29 N 1,898,100.0785 E 1,097,672.0528  
 P.T. Station 5+39.18 N 1,898,309.6386 E 1,097,700.9548  
 C.C. N 1,898,250.5128 E 1,097,355.4777  
 Back = N 25° 25' 00.27" E  
 Ahead = N 9° 42' 41.96" W  
 Chord Bear = N 7° 51' 09.16" E

Curve Data

Curve E 1294 B-3  
 P.I. Station 6+91.99 N 1,898,460.2570 E 1,097,675.1775  
 Delta = 26° 51' 26.63" (LT)  
 Degree = 8° 57' 08.88"  
 Tangent = 152.8083  
 Length = 300.0000  
 Radius = 640.0000  
 External = 17.9896  
 Long Chord = 297.2610  
 Mid. Ord. = 17.4978  
 P.C. Station 5+39.18 N 1,898,309.6386 E 1,097,700.9548  
 P.T. Station 8+39.18 N 1,898,582.9834 E 1,097,584.1357  
 C.C. N 1,898,201.6771 E 1,097,070.1265  
 Back = N 9° 42' 41.96" W  
 Ahead = N 36° 34' 08.59" W  
 Chord Bear = N 23° 08' 25.27" W

**RAMP E\_1294\_B**

Curve Data

Curve E 1294 B-4  
 P.I. Station 9+42.75 N 1,898,667.5463 E 1,097,524.3412  
 Delta = 49° 44' 00.18" (LT)  
 Degree = 25° 38' 26.04"  
 Tangent = 103.5677  
 Length = 193.9637  
 Radius = 223.4575  
 External = 22.8340  
 Long Chord = 187.9316  
 Mid. Ord. = 20.7171  
 P.C. Station 8+39.18 N 1,898,582.9834 E 1,097,584.1357  
 P.T. Station 10+33.14 N 1,898,676.5773 E 1,097,421.1681  
 C.C. N 1,898,453.9709 E 1,097,401.6828  
 Back = N 35° 15' 50.90" W  
 Ahead = N 84° 59' 51.08" W  
 Chord Bear = N 60° 07' 50.99" W

Curve Data

Curve E 1294 B-5  
 P.I. Station 11+65.06 N 1,898,681.0558 E 1,097,289.3319  
 Delta = 71° 23' 24.08" (LT)  
 Degree = 31° 12' 19.19"  
 Tangent = 131.9122  
 Length = 228.7751  
 Radius = 183.6089  
 External = 42.4730  
 Long Chord = 214.2608  
 Mid. Ord. = 34.4938  
 P.C. Station 10+33.14 N 1,898,676.5773 E 1,097,421.1681  
 P.T. Station 12+61.92 N 1,898,557.5421 E 1,097,243.0156  
 C.C. N 1,898,493.0742 E 1,097,414.9345  
 Back = N 88° 03' 15.94" W  
 Ahead = S 20° 33' 19.98" W  
 Chord Bear = S 56° 15' 02.02" W

Curve Data

Curve E 1294 B-6  
 P.I. Station 13+35.99 N 1,898,488.2592 E 1,097,216.8305  
 Delta = 25° 38' 39.42" (LT)  
 Degree = 17° 36' 24.00"  
 Tangent = 74.0661  
 Length = 145.6510  
 Radius = 325.4209  
 External = 8.3223  
 Long Chord = 144.4383  
 Mid. Ord. = 8.1148  
 P.C. Station 12+61.92 N 1,898,557.5421 E 1,097,243.0156  
 P.T. Station 14+07.57 N 1,898,414.4683 E 1,097,223.2092  
 C.C. N 1,898,442.4940 E 1,097,547.4210  
 Back = S 20° 42' 13.59" W  
 Ahead = S 4° 56' 25.84" E  
 Chord Bear = S 7° 52' 53.88" W

FILE NAME =	DESIGNED - AJP	REVISED -
...expln.ABC.C4.298.R.Data.expln.66.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT PLAN  
I-290 CURVE DATA**

SCALE: N.T.S. SHEET NO. 24 OF 26 SHEETS STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2009-099BR	COOK/DUPAGE	309	38
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60157	