

**I-290 WB**

Curve Data

Curve E.I290.B-1  
 P.I. Station 486+17.44 N 1,896,979.8029 E 1,099,387.6438  
 Delta = 20° 39' 51.08" (LT)  
 Degree = 2° 13' 51.52"  
 Tangent = 468.2056  
 Length = 926.2389  
 Radius = 2,568.1908  
 External = 42.3303  
 Long Chord = 921.2271  
 Mid. Ord. = 41.6439  
 P.C. Station 481+49.23 N 1,897,158.8804 E 1,098,955.0380  
 P.T. Station 490+75.47 N 1,896,964.9087 E 1,099,855.6125  
 C.C. N 1,899,531.7997 E 1,099,937.3097  
 Back = S 67° 30' 46.28" E  
 Ahead = S 88° 10' 37.36" E  
 Chord Bear = S 77° 50' 41.82" E

Course from PT E.I290.B-1 to 56 S 86° 51' 10.53" E Dist 225.2444

Point 56 N 1,896,952.5430 E 1,100,080.5172 Sta 493+00.71

Course from 56 to PC E.I290.B-2 N 88° 56' 41.29" E Dist 496.7656

Curve Data

Curve E.I290.B-2  
 P.I. Station 502+41.59 N 1,896,969.8698 E 1,101,021.2324  
 Delta = 4° 51' 59.67" (RT)  
 Degree = 0° 32' 53.64"  
 Tangent = 444.1092  
 Length = 887.6844  
 Radius = 10,451.0000  
 External = 9.4318  
 Long Chord = 887.4175  
 Mid. Ord. = 9.4233  
 P.C. Station 497+97.48 N 1,896,961.6912 E 1,100,577.1985  
 P.T. Station 506+85.16 N 1,896,940.3489 E 1,101,464.3593  
 C.C. N 1,886,512.4635 E 1,100,769.6602  
 Back = N 88° 56' 41.29" E  
 Ahead = S 86° 11' 19.04" E  
 Chord Bear = S 88° 37' 18.88" E

Curve Data

Curve E.I290.B-3  
 P.I. Station 508+53.72 N 1,896,929.1444 E 1,101,632.5473  
 Delta = 5° 28' 31.59" (RT)  
 Degree = 1° 37' 31.48"  
 Tangent = 168.5607  
 Length = 336.8648  
 Radius = 3,525.0000  
 External = 4.0279  
 Long Chord = 336.7367  
 Mid. Ord. = 4.0233  
 P.C. Station 506+85.16 N 1,896,940.3489 E 1,101,464.3593  
 P.T. Station 510+22.03 N 1,896,901.9426 E 1,101,798.8986  
 C.C. N 1,893,423.1452 E 1,101,230.0454  
 Back = S 86° 11' 19.04" E  
 Ahead = S 80° 42' 47.45" E  
 Chord Bear = S 83° 27' 03.25" E

Curve Data

Curve E.I290.B-4  
 P.I. Station 511+65.91 N 1,896,878.7241 E 1,101,940.8900  
 Delta = 3° 32' 30.23" (RT)  
 Degree = 1° 13' 52.35"  
 Tangent = 143.8772  
 Length = 287.6627  
 Radius = 4,653.6168  
 External = 2.2236  
 Long Chord = 287.6169  
 Mid. Ord. = 2.2226  
 P.C. Station 510+22.03 N 1,896,901.9426 E 1,101,798.8986  
 P.T. Station 513+09.69 N 1,896,846.7785 E 1,102,081.1758  
 C.C. N 1,892,309.3213 E 1,101,047.9129  
 Back = S 80° 42' 47.45" E  
 Ahead = S 77° 10' 17.22" E  
 Chord Bear = S 78° 56' 32.34" E

**I-290 EB**

Curve Data

Curve E.I290.G-2  
 P.I. Station 492+34.53 N 1,896,677.2050 E 1,099,929.4215  
 Delta = 15° 36' 16.97" (LT)  
 Degree = 3° 55' 11.70"  
 Tangent = 200.2835  
 Length = 398.0879  
 Radius = 1,461.6582  
 External = 13.6581  
 Long Chord = 396.8587  
 Mid. Ord. = 13.5317  
 P.C. Station 490+34.25 N 1,896,749.7244 E 1,099,742.7281  
 P.T. Station 494+32.33 N 1,896,657.5789 E 1,100,128.7411  
 C.C. N 1,898,112.2025 E 1,100,271.9710  
 Back = S 68° 46' 18.38" E  
 Ahead = S 84° 22' 35.35" E  
 Chord Bear = S 76° 34' 26.86" E

Curve Data

Curve E.I290.G-3  
 P.I. Station 497+18.75 N 1,896,627.5805 E 1,100,413.5824  
 Delta = 23° 16' 51.11" (LT)  
 Degree = 4° 07' 15.66"  
 Tangent = 286.4166  
 Length = 564.9302  
 Radius = 1,390.3314  
 External = 29.1952  
 Long Chord = 561.0519  
 Mid. Ord. = 28.5948  
 P.C. Station 494+32.33 N 1,896,657.5789 E 1,100,128.7411  
 P.T. Station 499+97.26 N 1,896,712.6050 E 1,100,687.0881  
 C.C. N 1,898,040.2634 E 1,100,274.3602  
 Back = S 83° 59' 16.76" E  
 Ahead = N 72° 43' 52.14" E  
 Chord Bear = N 84° 22' 17.69" E

Course from PT E.I290.G-3 to PC E.I290.G-4 N 72° 43' 52.14" E Dist 127.1306

Curve Data

Curve E.I290.G-4  
 P.I. Station 501+88.09 N 1,896,769.2539 E 1,100,869.3158  
 Delta = 2° 10' 43.19" (LT)  
 Degree = 1° 42' 37.16"  
 Tangent = 63.6993  
 Length = 127.3832  
 Radius = 3,350.0000  
 External = 0.6056  
 Long Chord = 127.3755  
 Mid. Ord. = 0.6054  
 P.C. Station 501+24.39 N 1,896,750.3444 E 1,100,808.4879  
 P.T. Station 502+51.78 N 1,896,790.4621 E 1,100,929.3808  
 C.C. N 1,899,949.3342 E 1,099,814.0211  
 Back = N 72° 43' 52.14" E  
 Ahead = N 70° 33' 08.95" E  
 Chord Bear = N 71° 38' 30.54" E

Curve Data

Curve E.I290.G-5  
 P.I. Station 503+42.19 N 1,896,820.5649 E 1,101,014.6364  
 Delta = 7° 23' 24.82" (RT)  
 Degree = 4° 05' 33.20"  
 Tangent = 90.4141  
 Length = 180.5774  
 Radius = 1,400.0000  
 External = 2.9165  
 Long Chord = 180.4522  
 Mid. Ord. = 2.9104  
 P.C. Station 502+51.78 N 1,896,790.4621 E 1,100,929.3808  
 P.T. Station 504+32.35 N 1,896,839.4514 E 1,101,103.0559  
 C.C. N 1,895,470.3365 E 1,101,395.5013  
 Back = N 70° 33' 08.95" E  
 Ahead = N 77° 56' 33.78" E  
 Chord Bear = N 74° 14' 51.36" E

Course from PT E.I290.G-5 to 1534 N 3° 53' 43.99" W Dist 35.8852

Point 1534 N 1,896,875.2537 E 1,101,100.6179 Sta 504+68.24

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>				<b>ALIGNMENT PLAN I-290 MAINLINE CURVE DATA</b>				F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\exphn.abc.c2.290.ML_Data.exalign.15.dgn	DRAWN - TMB	REVISED -										290	(30311, ETC., 3838)RS-5	COOK	298	42
USER NAME = tblank	CHECKED - JMM	REVISED -										CONTRACT NO. 60G52				
PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -										SCALE: N.T.S.	SHEET NO. 15 OF 36 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT