

**RAMP E\_1ST\_A**

Point 1410 N 1,896,122.9076 E 1,119,034.0163 Sta 0+00.00  
 Course from 1410 to 1411 N 85° 13' 29.09" E Dist 297.1053  
 Point 1411 N 1,896,147.6408 E 1,119,330.0903 Sta 2+97.11  
 Course from 1411 to 1412 N 82° 11' 15.69" E Dist 510.3662  
 Point 1412 N 1,896,217.0141 E 1,119,835.7197 Sta 8+07.47

**RAMP E\_1ST\_B**

Point 1420 N 1,896,036.5033 E 1,119,068.2592 Sta 0+00.00  
 Course from 1420 to 1421 S 86° 47' 22.21" E Dist 439.8107  
 Point 1421 N 1,896,011.8720 E 1,119,507.3796 Sta 4+39.81  
 Course from 1421 to 1422 S 86° 04' 10.29" E Dist 365.8020  
 Point 1422 N 1,895,986.7977 E 1,119,872.3212 Sta 8+05.61

**RAMP E\_1ST\_C**

Point 1430 N 1,896,298.6996 E 1,121,296.0062 Sta 0+00.00  
 Course from 1430 to PC E\_1ST\_C-1 S 84° 01' 48.09" W Dist 104.6754

Curve Data

Curve E\_1ST\_C-1  
 P.I. Station 2+35.61 N 1,896,274.1941 E 1,121,061.6707  
 Delta = 4° 45' 59.77" (RT)  
 Degree = 1° 49' 16.41"  
 Tangent = 130.9379  
 Length = 261.7248  
 Radius = 3,146.0000  
 External = 2.7237  
 Long Chord = 261.6494  
 Mid. Ord. = 2.7213  
 P.C. Station 1+04.68 N 1,896,287.8126 E 1,121,191.8985  
 P.T. Station 3+66.40 N 1,896,271.4442 E 1,120,930.7616  
 C.C. N 1,899,416.7504 E 1,120,864.6916  
 Back = S 84° 01' 48.09" W  
 Ahead = S 88° 47' 47.86" W  
 Chord Bear = S 86° 24' 47.98" W

Course from PT E\_1ST\_C-1 to 1431 S 88° 47' 47.86" W Dist 207.9072

Point 1431 N 1,896,267.0779 E 1,120,722.9003 Sta 5+74.31

**RAMP E\_1ST\_D**

Point 1440 N 1,896,220.7804 E 1,121,376.3617 Sta 0+00.00  
 Course from 1440 to 1441 S 75° 04' 48.05" W Dist 293.8498  
 Point 1441 N 1,896,145.1229 E 1,121,092.4187 Sta 2+93.85  
 Course from 1441 to 1442 S 72° 10' 02.93" W Dist 140.3010  
 Point 1442 N 1,896,102.1577 E 1,120,958.8584 Sta 4+34.15  
 Course from 1442 to 1443 S 72° 10' 02.98" W Dist 145.2090  
 Point 1443 N 1,896,057.6896 E 1,120,820.6258 Sta 5+79.36  
 Course from 1443 to PC E\_1ST\_D-1 S 72° 18' 02.52" W Dist 351.7186

Curve Data

Curve E\_1ST\_D-1  
 P.I. Station 10+00.32 N 1,895,929.7085 E 1,120,419.5913  
 Delta = 66° 18' 26.46" (LT)  
 Degree = 54° 03' 09.44"  
 Tangent = 69.2421  
 Length = 122.6718  
 Radius = 106.0000  
 External = 20.6115  
 Long Chord = 115.9399  
 Mid. Ord. = 17.2561  
 P.C. Station 9+31.08 N 1,895,950.7596 E 1,120,485.5558  
 P.T. Station 10+53.75 N 1,895,860.8449 E 1,120,412.3615  
 C.C. N 1,895,849.7771 E 1,120,517.7821  
 Back = S 72° 18' 02.52" W  
 Ahead = S 5° 59' 36.06" W  
 Chord Bear = S 39° 08' 49.29" W

Course from PT E\_1ST\_D-1 to 1444 S 5° 59' 36.06" W Dist 244.5170

Point 1444 N 1,895,617.6644 E 1,120,386.8307 Sta 12+98.27

**RAMP E\_1ST\_E**

Curve Data

Curve E\_1ST\_E-1  
 P.I. Station 6+22.76 N 1,896,044.2440 E 1,120,674.4342  
 Delta = 0° 33' 27.38" (RT)  
 Degree = 3° 10' 59.16"  
 Tangent = 8.7589  
 Length = 17.5177  
 Radius = 1,800.0000  
 External = 0.0213  
 Long Chord = 17.5177  
 Mid. Ord. = 0.0213  
 P.C. Station 6+14.00 N 1,896,045.7656 E 1,120,683.0600  
 P.T. Station 6+31.52 N 1,896,042.8065 E 1,120,665.7940  
 C.C. N 1,897,818.3986 E 1,120,370.3749  
 Back = S 79° 59' 46.23" W  
 Ahead = S 80° 33' 13.61" W  
 Chord Bear = S 80° 16' 29.92" W

Course from PT E\_1ST\_E-1 to 1451 S 80° 33' 13.61" W Dist 294.0471

Point 1451 N 1,895,994.5469 E 1,120,375.7342 Sta 9+25.56

|   |                |           |                |   |   |                           |      |             |                     |                           |              |           |
|---|----------------|-----------|----------------|---|---|---------------------------|------|-------------|---------------------|---------------------------|--------------|-----------|
| FILE NAME =                                 | DESIGNED - AJP | REVISED - | <b>benesch</b> | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>ALIGNMENT PLAN<br/>I-290 RAMP CURVE DATA</b> |                           |      | F.A.I. RTE. | SECTION             | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| ... \expln\A3C_C2_290_R_Data_exalign_33.dgn | DRAWN - TMB    | REVISED - |                |   | 290   | (313), ETC., 3435)RS-6    | COOK | 215         | 37                  |                           |              |           |
| USER NAME = tblank                          | CHECKED - JMM  | REVISED - |                |   | CONTRACT NO. 60K10                              |                           |      |             |                     |                           |              |           |
| PLOT DATE = 1/25/2010                       | DATE - 1/25/10 | REVISED - |                |   | SCALE: N.T.S.                                   | SHEET NO. 13 OF 16 SHEETS | STA. | TO STA.     | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |              |           |