

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

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USER NAME = wblank	CHECKED - JMM	REVISED -
PLDT DATE = 11/12/2009	DATE - 10/16/09	REVISED -

benesch

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT PLAN
 I-290 RAMP CURVE DATA**

SCALE: N.T.S. SHEET NO. 33 OF 36 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3031.1, ETC., 3838RS-5	COOK	298	60
CONTRACT NO. 60G52				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				