

RAMP E_RLAKE_D

Point 610 N 1,911,695.0159 E 1,091,126.5345 Sta 0+00.00

Course from 610 to PC E RLAKE D-1 N 61° 47' 34.54" W Dist 119.2103

Curve Data

Curve E RLAKE D-1
 P.I. Station 2+80.04 N 1,911,822.5981 E 1,090,877.2889
 Delta = 23° 25' 04.84" (LT)
 Degree = 7° 23' 00.52"
 Tangent = 160.8291
 Length = 317.1678
 Radius = 776.0000
 External = 16.4910
 Long Chord = 314.9648
 Mid. Ord. = 16.1478
 P.C. Station 1+19.21 N 1,911,751.3617 E 1,091,021.4810
 P.T. Station 4+36.38 N 1,911,830.6595 E 1,090,716.6620
 C.C. N 1,911,055.6349 E 1,090,677.7657
 Back = N 63° 42' 32.00" W
 Ahead = N 87° 07' 36.84" W
 Chord Bear = N 75° 25' 04.42" W

Curve Data

Curve E RLAKE D-2
 P.I. Station 4+87.24 N 1,911,831.6293 E 1,090,665.8054
 Delta = 11° 30' 26.39" (LT)
 Degree = 11° 20' 58.73"
 Tangent = 50.8658
 Length = 101.3893
 Radius = 504.8244
 External = 2.5561
 Long Chord = 101.2190
 Mid. Ord. = 2.5433
 P.C. Station 4+36.38 N 1,911,830.6595 E 1,090,716.6620
 P.T. Station 5+37.77 N 1,911,822.4340 E 1,090,615.7777
 C.C. N 1,911,325.9269 E 1,090,707.0376
 Back = N 88° 54' 27.37" W
 Ahead = S 79° 35' 06.24" W
 Chord Bear = S 85° 20' 19.44" W

RAMP E_RLAKE_E

Curve Data

Curve E RLAKE E-1
 P.I. Station 2+44.40 N 1,911,279.8642 E 1,091,882.7848
 Delta = 13° 16' 36.32" (RT)
 Degree = 2° 43' 42.13"
 Tangent = 244.4039
 Length = 486.6185
 Radius = 2,100.0000
 External = 14.1744
 Long Chord = 485.5305
 Mid. Ord. = 14.0793
 P.C. Station 0+00.00 N 1,911,402.4006 E 1,091,671.3183
 P.T. Station 4+86.62 N 1,911,112.0386 E 1,092,060.4582
 C.C. N 1,909,585.4094 E 1,090,618.4446
 Back = S 59° 54' 33.93" E
 Ahead = S 46° 37' 57.61" E
 Chord Bear = S 53° 16' 15.77" E

Curve Data

Curve E RLAKE E-2
 P.I. Station 5+41.48 N 1,911,074.3661 E 1,092,100.3412
 Delta = 24° 45' 16.76" (RT)
 Degree = 22° 55' 05.92"
 Tangent = 54.8624
 Length = 108.0126
 Radius = 250.0000
 External = 5.9490
 Long Chord = 107.1744
 Mid. Ord. = 5.8107
 P.C. Station 4+86.62 N 1,911,112.0386 E 1,092,060.4582
 P.T. Station 5+94.63 N 1,911,023.4550 E 1,092,120.7847
 C.C. N 1,910,930.2971 E 1,091,888.7899
 Back = S 46° 37' 57.61" E
 Ahead = S 21° 52' 40.84" E
 Chord Bear = S 34° 15' 19.23" E

Curve Data

Curve E RLAKE E-3
 P.I. Station 10+39.66 N 1,910,610.4802 E 1,092,286.6154
 Delta = 141° 15' 00.08" (RT)
 Degree = 36° 36' 38.60"
 Tangent = 445.0258
 Length = 385.8160
 Radius = 156.5000
 External = 315.2417
 Long Chord = 295.2740
 Mid. Ord. = 104.5812
 P.C. Station 5+94.63 N 1,911,023.4550 E 1,092,120.7847
 P.T. Station 9+80.45 N 1,910,828.7557 E 1,091,898.7961
 C.C. N 1,910,965.1381 E 1,091,975.5559
 Back = S 21° 52' 40.84" E
 Ahead = N 60° 37' 40.76" W
 Chord Bear = S 48° 44' 49.20" W

Course from PT E RLAKE E-3 to PC E RLAKE E-4 N 60° 37' 40.76" W Dist 362.1787

Curve Data

Curve E RLAKE E-4
 P.I. Station 14+06.16 N 1,911,037.8181 E 1,091,527.9516
 Delta = 0° 20' 10.16" (RT)
 Degree = 0° 15' 52.34"
 Tangent = 63.5364
 Length = 127.0724
 Radius = 21,658.8260
 External = 0.0932
 Long Chord = 127.0722
 Mid. Ord. = 0.0932
 P.C. Station 13+42.63 N 1,911,006.3963 E 1,091,583.1743
 P.T. Station 14+69.70 N 1,911,069.5632 E 1,091,472.9142
 C.C. N 1,929,831.1866 E 1,102,294.4774
 Back = N 60° 21' 36.47" W
 Ahead = N 60° 01' 26.31" W
 Chord Bear = N 60° 11' 31.39" W

FILE NAME =	DESIGNED - AJP	REVISED -
...NexpIn_A0C_C4_298_R_Data_exalign_56.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. 14 OF 26 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2009-0998R	COOK/DUPAGE	309	28
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60157	