

RAMP E_RLAKE_A

Curve Data

Curve E RLAKE A-1
 P.I. Station = 1+74.57 N 1,913,085.1480 E 1,089,756.1001
 Delta = 4° 33' 56.03" (LT)
 Degree = 1° 18' 29.98"
 Tangent = 174.5741
 Length = 348.9634
 Radius = 4,379.3180
 External = 3.4782
 Long Chord = 348.8711
 Mid. Ord. = 3.4754
 P.C. Station = 0+00.00 N 1,912,233.0521 E 1,089,663.3614
 P.T. Station = 3+48.96 N 1,912,945.0951 E 1,089,860.3176
 C.C. = N 1,915,559.4693 E 1,093,373.6457
 Back = S 32° 05' 18.51" E
 Ahead = S 36° 39' 14.60" E
 Chord Bear = S 34° 22' 16.56" E

Curve Data

Curve E RLAKE A-2
 P.I. Station = 7+14.93 N 1,912,651.5007 E 1,090,078.7902
 Delta = 55° 12' 04.88" (LT)
 Degree = 8° 11' 06.40"
 Tangent = 365.9617
 Length = 674.4118
 Radius = 700.0000
 External = 89.8911
 Long Chord = 648.6291
 Mid. Ord. = 79.6613
 P.C. Station = 3+48.96 N 1,912,945.0951 E 1,089,860.3176
 P.T. Station = 10+23.38 N 1,912,663.3495 E 1,090,444.5600
 C.C. = N 1,913,362.9825 E 1,090,421.8959
 Back = S 36° 39' 14.60" E
 Ahead = N 88° 08' 40.52" E
 Chord Bear = S 64° 15' 17.04" E

Course from PT E RLAKE A-2 to 591 N 88° 08' 40.52" E Dist 470.1422

Point 591 N 1,912,678.5715 E 1,090,914.4558 Sta 14+93.52

RAMP E_RLAKE_B

Point 600 N 1,911,724.7699 E 1,091,367.8439 Sta 0+00.00

Course from 600 to PC E RLAKE B-1 N 58° 22' 57.80" W Dist 275.4597

Curve Data

Curve E RLAKE B-1
 P.I. Station = 4+36.80 N 1,911,953.7597 E 1,090,995.8777
 Delta = 19° 31' 09.83" (RT)
 Degree = 6° 06' 29.85"
 Tangent = 161.3414
 Length = 319.5557
 Radius = 938.0000
 External = 13.7747
 Long Chord = 318.0126
 Mid. Ord. = 13.5753
 P.C. Station = 2+75.46 N 1,911,869.1777 E 1,091,133.2709
 P.T. Station = 5+95.02 N 1,912,079.3873 E 1,090,894.6417
 C.C. = N 1,912,667.9493 E 1,091,625.0106
 Back = N 58° 22' 57.80" W
 Ahead = N 38° 51' 47.96" W
 Chord Bear = N 48° 37' 22.88" W

Course from PT E RLAKE B-1 to PC E RLAKE B-2 N 38° 51' 47.96" W Dist 80.2675

Curve Data

Curve E RLAKE B-2
 P.I. Station = 7+97.03 N 1,912,241.0180 E 1,090,773.5924
 Delta = 18° 37' 34.64" (RT)
 Degree = 7° 43' 02.85"
 Tangent = 121.7504
 Length = 241.3526
 Radius = 742.4176
 External = 9.9168
 Long Chord = 240.2912
 Mid. Ord. = 9.7861
 P.C. Station = 6+75.28 N 1,912,141.8872 E 1,090,844.2766
 P.T. Station = 9+16.64 N 1,912,357.5326 E 1,090,738.2722
 C.C. = N 1,912,572.9103 E 1,091,448.7624
 Back = N 35° 29' 25.52" W
 Ahead = N 16° 51' 50.88" W
 Chord Bear = N 26° 10' 38.20" W

Curve Data

Curve E RLAKE B-3
 P.I. Station = 11+95.29 N 1,912,628.0123 E 1,090,671.2711
 Delta = 101° 54' 47.31" (RT)
 Degree = 25° 21' 07.61"
 Tangent = 278.6546
 Length = 401.9907
 Radius = 226.0000
 External = 132.7818
 Long Chord = 351.0543
 Mid. Ord. = 83.6405
 P.C. Station = 9+16.64 N 1,912,357.5326 E 1,090,738.2722
 P.T. Station = 13+18.63 N 1,912,637.7355 E 1,090,949.7561
 C.C. = N 1,912,411.8731 E 1,090,957.6420
 Back = N 13° 54' 46.05" W
 Ahead = N 88° 00' 01.26" E
 Chord Bear = N 37° 02' 37.61" E

Course from PT E RLAKE B-3 to PC E RLAKE B-4 N 86° 30' 17.76" E Dist 79.2699

RAMP E_RLAKE_B

Curve Data

Curve E RLAKE B-4
 P.I. Station = 14+69.40 N 1,912,640.6051 E 1,091,100.3524
 Delta = 4° 09' 29.60" (RT)
 Degree = 2° 54' 32.73"
 Tangent = 71.5008
 Length = 142.9389
 Radius = 1,969.5424
 External = 1.2974
 Long Chord = 142.9075
 Mid. Ord. = 1.2966
 P.C. Station = 13+97.90 N 1,912,642.5680 E 1,091,028.8785
 P.T. Station = 15+40.83 N 1,912,633.4647 E 1,091,171.4958
 C.C. = N 1,910,673.7679 E 1,090,974.8096
 Back = S 88° 25' 36.80" E
 Ahead = S 84° 16' 07.20" E
 Chord Bear = S 86° 20' 52.00" E

Course from PT E RLAKE B-4 to 601 N 87° 21' 16.39" E Dist 102.2674

Point 601 N 1,912,638.1849 E 1,091,273.6542 Sta 16+43.10

FILE NAME =	DESIGNED - AJP	REVISED -	benesch	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT PLAN I-290 CURVE DATA	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\expln\ABC\C4-290_R\Data\exalign_55.dgn	DRAWN - TMB	REVISED -				290	2009-099BR	COOK/DUPAGE	309	27
USER NAME = tblank	CHECKED - JMM	REVISED -				CONTRACT NO. 60157				
PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -				SCALE: N.T.S.	SHEET NO. 13 OF 26 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT