

RAMP E_RACINE_A

Curve Data

Curve E RACINE A-1
 P.I. Station = 0+62.43 N 1,898,220.2395 E 1,166,277.1759
 Delta = 3° 15' 24.42" (LT)
 Degree = 2° 36' 32.75"
 Tangent = 62.4289
 Length = 124.8241
 Radius = 2,196.0000
 External = 0.8872
 Long Chord = 124.8073
 Mid. Ord. = 0.8868
 P.C. Station = 0+00.00 N 1,898,226.8425 E 1,166,215.0972
 P.T. Station = 1+24.82 N 1,898,217.1739 E 1,166,339.5295
 C.C. = N 1,900,410.5247 E 1,166,447.3637
 Back = S 83° 55' 42.91" E
 Ahead = S 87° 11' 07.33" E
 Chord Bear = S 85° 33' 25.12" E

Course from PT E RACINE A-1 to 1901 S 87° 11' 07.33" E Dist 491.5305

Point 1901 N 1,898,193.0374 E 1,166,830.4670 Sta 6+16.35

Course from 1901 to PC E RACINE A-2 N 88° 14' 09.96" E Dist 588.5830

Curve Data

Curve E RACINE A-2
 P.I. Station = 12+40.14 N 1,898,212.2381 E 1,167,453.9542
 Delta = 3° 12' 10.73" (LT)
 Degree = 4° 33' 03.23"
 Tangent = 35.1998
 Length = 70.3813
 Radius = 1,259.0000
 External = 0.4920
 Long Chord = 70.3722
 Mid. Ord. = 0.4918
 P.C. Station = 12+04.94 N 1,898,211.1546 E 1,167,418.7711
 P.T. Station = 12+75.32 N 1,898,215.2857 E 1,167,489.0219
 C.C. = N 1,899,469.5580 E 1,167,380.0178
 Back = N 88° 14' 09.96" E
 Ahead = N 85° 01' 59.23" E
 Chord Bear = N 86° 38' 04.60" E

Course from PT E RACINE A-2 to 1902 N 85° 01' 59.23" E Dist 448.5273

Point 1902 N 1,898,254.1191 E 1,167,935.8649 Sta 17+23.85

Course from 1902 to PC E RACINE A-3 N 84° 04' 51.55" E Dist 246.8952

Curve Data

Curve E RACINE A-3
 P.I. Station = 19+76.85 N 1,898,280.2094 E 1,168,187.5185
 Delta = 4° 29' 02.00" (LT)
 Degree = 36° 43' 41.03"
 Tangent = 6.1073
 Length = 12.2083
 Radius = 156.0000
 External = 0.1195
 Long Chord = 12.2052
 Mid. Ord. = 0.1194
 P.C. Station = 19+70.74 N 1,898,279.5796 E 1,168,181.4437
 P.T. Station = 19+82.95 N 1,898,281.3122 E 1,168,193.5254
 C.C. = N 1,898,434.7479 E 1,168,165.3566
 Back = N 84° 04' 51.55" E
 Ahead = N 79° 35' 49.55" E
 Chord Bear = N 81° 50' 20.55" E

RAMP E_RACINE_B

Point 1910 N 1,897,897.0882 E 1,167,798.2247 Sta 0+00.00

Course from 1910 to 1911 N 87° 01' 35.58" W Dist 385.9653

Point 1911 N 1,897,917.1095 E 1,167,412.7791 Sta 3+85.97

Course from 1911 to 1912 N 88° 23' 24.14" W Dist 244.5948

Point 1912 N 1,897,923.9815 E 1,167,168.2808 Sta 6+30.56

Course from 1912 to 1913 N 88° 02' 14.73" W Dist 97.3547

Point 1913 N 1,897,927.3155 E 1,167,070.9832 Sta 7+27.91

Course from 1913 to 1914 S 88° 15' 24.23" W Dist 287.9180

Point 1914 N 1,897,918.5567 E 1,166,783.1985 Sta 10+15.83

Course from 1914 to 1915 S 84° 22' 03.26" W Dist 336.2855

Point 1915 N 1,897,885.5516 E 1,166,448.5366 Sta 13+52.12

Course from 1915 to PC E RACINE B-1 S 84° 06' 13.00" W Dist 274.1533

Curve Data

Curve E RACINE B-1
 P.I. Station = 16+71.73 N 1,897,852.7174 E 1,166,130.6110
 Delta = 10° 12' 29.18" (LT)
 Degree = 11° 15' 23.54"
 Tangent = 45.4633
 Length = 90.6860
 Radius = 509.0000
 External = 2.0263
 Long Chord = 90.5661
 Mid. Ord. = 2.0183
 P.C. Station = 16+26.27 N 1,897,857.3879 E 1,166,175.8338
 P.T. Station = 17+16.96 N 1,897,840.1064 E 1,166,086.9317
 C.C. = N 1,897,351.0809 E 1,166,228.1233
 Back = S 84° 06' 13.00" W
 Ahead = S 73° 53' 43.82" W
 Chord Bear = S 78° 59' 58.41" W

FILE NAME =	DESIGNED - CAG	REVISED -	benesch	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT PLAN CURVE DATA			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\explr_abc_c3_298_r_data_exalign_31.dgn	DRAWN - DMS	REVISED -			290	(2525, ETC., 2727)RS-8	COOK	201	36			
USER NAME = jmajowski	CHECKED - CAR	REVISED -			CONTRACT NO. 60K11							
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -			SCALE: N.T.S.	SHEET NO. 17 OF 19 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		