

**RAMP E\_PLINA\_A**

Point 1880 N 1,898,145.7306 E 1,163,446.2754 Sta 0+00.00  
 Course from 1880 to 1881 S 83° 17' 49.79" E Dist 288.4727  
 Point 1881 N 1,898,112.0601 E 1,163,732.7764 Sta 2+88.47  
 Course from 1881 to PC E PLINA A-1 S 85° 47' 44.76" E Dist 215.6583

Curve Data

Curve E PLINA A-1  
 P.I. Station 5+23.48 N 1,898,094.8315 E 1,163,967.1481  
 Delta = 5° 47' 54.07" (LT)  
 Degree = 14° 59' 56.02"  
 Tangent = 19.3458  
 Length = 38.6585  
 Radius = 382.0000  
 External = 0.4896  
 Long Chord = 38.6420  
 Mid. Ord. = 0.4889  
 P.C. Station 5+04.13 N 1,898,096.2497 E 1,163,947.8544  
 P.T. Station 5+42.79 N 1,898,095.3697 E 1,163,986.4864  
 C.C. N 1,898,477.2218 E 1,163,975.8595  
 Back = S 85° 47' 44.76" E  
 Ahead = N 88° 24' 21.17" E  
 Chord Bear = S 88° 41' 41.79" E

Course from PT E PLINA A-1 to PC E PLINA A-2 N 88° 24' 21.17" E Dist 383.1736

Curve Data

Curve E PLINA A-2  
 P.I. Station 9+67.47 N 1,898,107.1838 E 1,164,410.9992  
 Delta = 7° 35' 10.63" (LT)  
 Degree = 9° 09' 09.65"  
 Tangent = 41.5036  
 Length = 82.8859  
 Radius = 626.0000  
 External = 1.3743  
 Long Chord = 82.8254  
 Mid. Ord. = 1.3713  
 P.C. Station 9+25.96 N 1,898,106.0292 E 1,164,369.5117  
 P.T. Station 10+08.85 N 1,898,113.8054 E 1,164,451.9712  
 C.C. N 1,898,731.7869 E 1,164,352.0969  
 Back = N 88° 24' 21.17" E  
 Ahead = N 80° 49' 10.54" E  
 Chord Bear = N 84° 36' 45.86" E

Course from PT E PLINA A-2 to 1882 N 80° 49' 10.54" E Dist 79.9728

Point 1882 N 1,898,126.5645 E 1,164,530.9196 Sta 10+88.82

Course from 1882 to 1883 N 79° 08' 55.61" E Dist 304.7514

Point 1883 N 1,898,183.9368 E 1,164,830.2218 Sta 13+93.57

**RAMP E\_PLINA\_B**

Curve Data

Curve E PLINA B-1  
 P.I. Station 0+67.90 N 1,897,813.8461 E 1,164,736.1067  
 Delta = 3° 32' 30.55" (LT)  
 Degree = 2° 36' 32.75"  
 Tangent = 67.8961  
 Length = 135.7489  
 Radius = 2,196.0000  
 External = 1.0494  
 Long Chord = 135.7273  
 Mid. Ord. = 1.0489  
 P.C. Station 0+00.00 N 1,897,804.3350 E 1,164,803.3332  
 P.T. Station 1+35.75 N 1,897,819.1859 E 1,164,668.4209  
 C.C. N 1,895,629.9880 E 1,164,495.7110  
 Back = N 81° 56' 50.47" W  
 Ahead = N 85° 29' 21.02" W  
 Chord Bear = N 83° 43' 05.75" W

Course from PT E PLINA B-1 to PC E PLINA B-2 N 85° 29' 21.02" W Dist 416.7624

Curve Data

Curve E PLINA B-2  
 P.I. Station 6+00.22 N 1,897,855.7157 E 1,164,205.3842  
 Delta = 6° 04' 09.60" (LT)  
 Degree = 6° 21' 58.31"  
 Tangent = 47.7131  
 Length = 95.3369  
 Radius = 900.0000  
 External = 1.2639  
 Long Chord = 95.2923  
 Mid. Ord. = 1.2621  
 P.C. Station 5+52.51 N 1,897,851.9632 E 1,164,252.9494  
 P.T. Station 6+47.85 N 1,897,854.4181 E 1,164,157.6887  
 C.C. N 1,896,954.7510 E 1,164,182.1667  
 Back = N 85° 29' 21.02" W  
 Ahead = S 88° 26' 29.38" W  
 Chord Bear = N 88° 31' 25.82" W

Course from PT E PLINA B-2 to 1891 S 88° 26' 29.38" W Dist 274.9672

Point 1891 N 1,897,846.9396 E 1,163,882.8233 Sta 9+22.82

Course from 1891 to 1892 S 83° 40' 48.48" W Dist 235.8277

Point 1892 N 1,897,820.9799 E 1,163,648.4288 Sta 11+58.64

Course from 1892 to PC E PLINA B-3 S 81° 21' 12.02" W Dist 120.4828

Curve Data

Curve E PLINA B-3  
 P.I. Station 13+74.83 N 1,897,788.4787 E 1,163,434.7018  
 Delta = 7° 05' 04.08" (LT)  
 Degree = 3° 42' 21.84"  
 Tangent = 95.7013  
 Length = 191.1587  
 Radius = 1,546.0000  
 External = 2.9592  
 Long Chord = 191.0369  
 Mid. Ord. = 2.9536  
 P.C. Station 12+79.13 N 1,897,802.8665 E 1,163,529.3153  
 P.T. Station 14+70.28 N 1,897,762.5318 E 1,163,342.5850  
 C.C. N 1,896,274.4379 E 1,163,761.7418  
 Back = S 81° 21' 12.02" W  
 Ahead = S 74° 16' 07.94" W  
 Chord Bear = S 77° 48' 39.98" W

FILE NAME =	DESIGNED - CAG	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENT PLAN CURVE DATA</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\expln_abc_c3_29@_r_data_exo\sign_30.dgn	DRAWN - DMS	REVISED -			290	(2525, ETC., 2727)RS-B	COOK	201	35			
USER NAME = jmajewski	CHECKED - CAR	REVISED -			CONTRACT NO. 60K11							
PLDT DATE = 1/25/2018	DATE - 1/25/10	REVISED -			SCALE: N.T.S.	SHEET NO. 16 OF 19 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		