

**RAMP E\_KNNDY\_A**

Point 1920 N 1,898,099.1611 E 1,169,866.9082 Sta 0+00.00  
 Course from 1920 to 1921 S 89° 00' 31.76" E Dist 70.0004  
 Point 1921 N 1,898,097.9502 E 1,169,936.8981 Sta 0+70.00  
 Course from 1921 to 1922 S 89° 58' 56.02" E Dist 152.2231  
 Point 1922 N 1,898,097.9030 E 1,170,089.1212 Sta 2+22.22  
 Course from 1922 to 1923 S 88° 58' 37.09" E Dist 94.4044  
 Point 1923 N 1,898,096.2175 E 1,170,183.5106 Sta 3+16.63  
 Course from 1923 to PC E KNNDY A-1 S 84° 06' 39.53" E Dist 188.8032

Curve Data

Curve E KNNDY A-1  
 P.I. Station = 5+49.38 N 1,898,072.3362 E 1,170,415.0391  
 Delta = 5° 02' 55.01" (LT)  
 Degree = 5° 44' 48.55"  
 Tangent = 43.9537  
 Length = 87.8506  
 Radius = 997.0000  
 External = 0.9684  
 Long Chord = 87.8222  
 Mid. Ord. = 0.9675  
 P.C. Station = 5+05.43 N 1,898,076.8459 E 1,170,371.3174  
 P.T. Station = 5+93.28 N 1,898,071.6915 E 1,170,458.9882  
 C.C. = N 1,899,068.5843 E 1,170,473.6114  
 Back = S 84° 06' 39.53" E  
 Ahead = S 89° 09' 34.55" E  
 Chord Bear = S 86° 38' 07.04" E

Course from PT E KNNDY A-1 to 1924 N 88° 18' 25.18" E Dist 51.5258

Point 1924 N 1,898,073.2138 E 1,170,510.4915 Sta 6+44.81

Course from 1924 to 1925 N 85° 19' 21.77" E Dist 168.4662

Point 1925 N 1,898,086.9511 E 1,170,678.3966 Sta 8+13.27

Course from 1925 to PC E KNNDY A-2 N 86° 59' 34.92" E Dist 89.7205

Curve Data

Curve E KNNDY A-2  
 P.I. Station = 10+16.89 N 1,898,097.6321 E 1,170,881.7293  
 Delta = 13° 33' 34.72" (LT)  
 Degree = 5° 58' 50.77"  
 Tangent = 113.8924  
 Length = 226.7207  
 Radius = 958.0000  
 External = 6.7463  
 Long Chord = 226.1920  
 Mid. Ord. = 6.6992  
 P.C. Station = 9+02.99 N 1,898,091.6576 E 1,170,767.9936  
 P.T. Station = 11+29.71 N 1,898,130.1062 E 1,170,990.8939  
 C.C. = N 1,899,048.3386 E 1,170,717.7395  
 Back = N 86° 59' 34.92" E  
 Ahead = N 73° 26' 00.20" E  
 Chord Bear = N 80° 12' 47.56" E

**RAMP E\_KNNDY\_A**

Curve Data

Curve E KNNDY A-3  
 P.I. Station = 11+73.95 N 1,898,142.7183 E 1,171,033.2905  
 Delta = 18° 36' 27.64" (LT)  
 Degree = 21° 13' 14.37"  
 Tangent = 44.2328  
 Length = 87.6866  
 Radius = 270.0000  
 External = 3.5992  
 Long Chord = 87.3018  
 Mid. Ord. = 3.5519  
 P.C. Station = 11+29.71 N 1,898,130.1062 E 1,170,990.8939  
 P.T. Station = 12+17.40 N 1,898,168.1993 E 1,171,069.4465  
 C.C. = N 1,898,388.8982 E 1,170,913.9088  
 Back = N 73° 26' 00.20" E  
 Ahead = N 54° 49' 32.56" E  
 Chord Bear = N 64° 07' 46.38" E

Course from PT E KNNDY A-3 to PC E KNNDY A-4 N 54° 49' 32.56" E Dist 55.0652

Curve Data

Curve E KNNDY A-4  
 P.I. Station = 13+32.70 N 1,898,234.6214 E 1,171,163.6957  
 Delta = 11° 15' 39.84" (LT)  
 Degree = 9° 22' 38.56"  
 Tangent = 60.2378  
 Length = 120.0876  
 Radius = 611.0000  
 External = 2.9622  
 Long Chord = 119.8944  
 Mid. Ord. = 2.9479  
 P.C. Station = 12+72.47 N 1,898,199.9205 E 1,171,114.4570  
 P.T. Station = 13+92.55 N 1,898,278.2696 E 1,171,205.2099  
 C.C. = N 1,898,699.3540 E 1,170,762.4810  
 Back = N 54° 49' 32.56" E  
 Ahead = N 43° 33' 52.71" E  
 Chord Bear = N 49° 11' 42.64" E

Course from PT E KNNDY A-4 to PC E KNNDY A-5 N 43° 33' 52.71" E Dist 94.3522

Curve Data

Curve E KNNDY A-5  
 P.I. Station = 15+47.38 N 1,898,390.4589 E 1,171,311.9144  
 Delta = 17° 16' 49.70" (LT)  
 Degree = 14° 23' 45.33"  
 Tangent = 60.4778  
 Length = 120.0373  
 Radius = 398.0000  
 External = 4.5687  
 Long Chord = 119.5828  
 Mid. Ord. = 4.5169  
 P.C. Station = 14+86.91 N 1,898,346.6369 E 1,171,270.2348  
 P.T. Station = 16+06.94 N 1,898,444.6838 E 1,171,338.6954  
 C.C. = N 1,898,620.9276 E 1,170,981.8451  
 Back = N 43° 33' 52.71" E  
 Ahead = N 26° 17' 03.01" E  
 Chord Bear = N 34° 55' 27.86" E

**RAMP E\_KNNDY\_A**

Curve Data

Curve E KNNDY A-6  
 P.I. Station = 16+41.67 N 1,898,475.8181 E 1,171,354.0722  
 Delta = 2° 20' 35.14" (LT)  
 Degree = 3° 22' 27.52"  
 Tangent = 34.7245  
 Length = 69.4392  
 Radius = 1,698.0000  
 External = 0.3550  
 Long Chord = 69.4344  
 Mid. Ord. = 0.3549  
 P.C. Station = 16+06.94 N 1,898,444.6838 E 1,171,338.6954  
 P.T. Station = 16+76.38 N 1,898,507.5550 E 1,171,368.1633  
 C.C. = N 1,899,196.5981 E 1,169,816.2537  
 Back = N 26° 17' 03.01" E  
 Ahead = N 23° 56' 27.87" E  
 Chord Bear = N 25° 06' 45.44" E

Curve Data

Curve E KNNDY A-7  
 P.I. Station = 18+03.29 N 1,898,623.5407 E 1,171,419.6606  
 Delta = 26° 32' 41.24" (LT)  
 Degree = 10° 38' 59.18"  
 Tangent = 126.9041  
 Length = 249.2521  
 Radius = 538.0000  
 External = 14.7646  
 Long Chord = 247.0290  
 Mid. Ord. = 14.3702  
 P.C. Station = 16+76.38 N 1,898,507.5550 E 1,171,368.1633  
 P.T. Station = 19+25.64 N 1,898,750.3138 E 1,171,413.8956  
 C.C. = N 1,898,725.8737 E 1,170,876.4511  
 Back = N 23° 56' 27.87" E  
 Ahead = N 2° 36' 13.37" W  
 Chord Bear = N 10° 40' 07.25" E

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_298_r_data_exalign_32.dgn	DRAWN - DMS	REVISED -				290	2828B,D, ETC., 3031.IRS-6	COOK	185	47
USER NAME = tblank	CHECKED - CAR	REVISED -				CONTRACT NO. 60G53				
PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
SCALE: N.T.S.						SHEET NO. 32 OF 33 SHEETS		STA.		TO STA.