

RAMP E_25TH_G

Point 1320 N 1,895,914.4773 E 1,112,382.8372 Sta 0+00.00

Course from 1320 to PC E_25TH_G-1 S 87° 44' 54.47" E Dist 31.4109

Curve Data

Curve E_25TH_G-1
 P.I. Station 1+15.69 N 1,895,909.7461 E 1,112,498.4329
 Delta = 21° 38' 40.69" (RT)
 Degree = 12° 59' 44.06"
 Tangent = 84.2817
 Length = 166.5539
 Radius = 440.8869
 External = 7.9835
 Long Chord = 165.5653
 Mid. Ord. = 7.8415
 P.C. Station 0+31.41 N 1,895,913.2432 E 1,112,414.2238
 P.T. Station 1+97.96 N 1,895,875.4352 E 1,112,575.4145
 C.C. N 1,895,472.7360 E 1,112,395.9300
 Back = S 87° 37' 18.94" E
 Ahead = S 65° 58' 38.26" E
 Chord Bear = S 76° 47' 58.60" E

Curve Data

Curve E_25TH_G-2
 P.I. Station 2+72.08 N 1,895,846.7446 E 1,112,643.7462
 Delta = 49° 40' 44.91" (RT)
 Degree = 35° 47' 15.38"
 Tangent = 74.1106
 Length = 138.8166
 Radius = 160.0995
 External = 16.3211
 Long Chord = 134.5089
 Mid. Ord. = 14.8112
 P.C. Station 1+97.96 N 1,895,875.4352 E 1,112,575.4145
 P.T. Station 3+36.78 N 1,895,776.0814 E 1,112,666.0868
 C.C. N 1,895,727.8195 E 1,112,513.4348
 Back = S 67° 13' 25.77" E
 Ahead = S 17° 32' 40.86" E
 Chord Bear = S 42° 23' 03.32" E

Curve Data

Curve E_25TH_G-3
 P.I. Station 3+83.73 N 1,895,731.0364 E 1,112,679.3365
 Delta = 43° 59' 44.79" (RT)
 Degree = 49° 17' 49.03"
 Tangent = 46.9533
 Length = 89.2464
 Radius = 116.2258
 External = 9.1259
 Long Chord = 87.0700
 Mid. Ord. = 8.4615
 P.C. Station 3+36.78 N 1,895,776.0814 E 1,112,666.0868
 P.T. Station 4+26.03 N 1,895,689.4281 E 1,112,657.5796
 C.C. N 1,895,743.2839 E 1,112,554.5845
 Back = S 16° 23' 27.02" E
 Ahead = S 27° 36' 17.77" W
 Chord Bear = S 5° 36' 25.38" W

Curve Data

Curve E_25TH_G-4
 P.I. Station 4+87.60 N 1,895,635.7879 E 1,112,627.3397
 Delta = 42° 42' 50.56" (RT)
 Degree = 36° 23' 03.85"
 Tangent = 61.5770
 Length = 117.3966
 Radius = 157.4735
 External = 11.6112
 Long Chord = 114.6968
 Mid. Ord. = 10.8138
 P.C. Station 4+26.03 N 1,895,689.4281 E 1,112,657.5796
 P.T. Station 5+43.42 N 1,895,616.8889 E 1,112,568.7347
 C.C. N 1,895,766.7620 E 1,112,520.4033
 Back = S 29° 24' 44.57" W
 Ahead = S 72° 07' 35.13" W
 Chord Bear = S 50° 46' 09.85" W

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Curve Data

Curve E_25TH_G-5
 P.I. Station 5+77.13 N 1,895,605.8859 E 1,112,536.8780
 Delta = 13° 01' 45.64" (RT)
 Degree = 19° 24' 47.45"
 Tangent = 33.7034
 Length = 67.1160
 Radius = 295.1385
 External = 1.9181
 Long Chord = 66.9714
 Mid. Ord. = 1.9058
 P.C. Station 5+43.42 N 1,895,616.8889 E 1,112,568.7347
 P.T. Station 6+10.54 N 1,895,602.3482 E 1,112,503.3608
 C.C. N 1,895,895.8564 E 1,112,472.3818
 Back = S 70° 56' 44.02" W
 Ahead = S 83° 58' 29.66" W
 Chord Bear = S 77° 27' 36.84" W

Curve Data

Curve E_25TH_G-6
 P.I. Station 7+04.63 N 1,895,586.5495 E 1,112,410.6053
 Delta = 71° 25' 33.67" (RT)
 Degree = 43° 46' 39.35"
 Tangent = 94.0913
 Length = 163.1566
 Radius = 130.8792
 External = 30.3118
 Long Chord = 152.7951
 Mid. Ord. = 24.6117
 P.C. Station 6+10.54 N 1,895,602.3482 E 1,112,503.3608
 P.T. Station 7+73.70 N 1,895,669.4412 E 1,112,366.0842
 C.C. N 1,895,731.3693 E 1,112,481.3850
 Back = S 80° 20' 01.52" W
 Ahead = N 28° 14' 24.81" W
 Chord Bear = N 63° 57' 11.64" W

Curve Data

Curve E_25TH_G-7
 P.I. Station 8+11.27 N 1,895,705.4149 E 1,112,355.2494
 Delta = 9° 29' 21.36" (RT)
 Degree = 12° 39' 27.97"
 Tangent = 37.5699
 Length = 74.9679
 Radius = 452.6530
 External = 1.5565
 Long Chord = 74.8823
 Mid. Ord. = 1.5511
 P.C. Station 7+73.70 N 1,895,669.4412 E 1,112,366.0842
 P.T. Station 8+48.66 N 1,895,742.6826 E 1,112,350.4936
 C.C. N 1,895,799.9815 E 1,112,799.5055
 Back = N 16° 45' 41.56" W
 Ahead = N 7° 16' 20.20" W
 Chord Bear = N 12° 01' 00.88" W

Course from PT E_25TH_G-7 to 1321 N 8° 19' 37.44" W Dist 71.1656

Point 1321 N 1,895,813.0979 E 1,112,340.1872 Sta 9+19.83

RAMP E_25TH_H

Point 1330 N 1,895,943.2235 E 1,113,067.0833 Sta 0+00.00

Course from 1330 to PC E_25TH_H-1 S 83° 37' 03.65" W Dist 34.0000

Curve Data

Curve E_25TH_H-1
 P.I. Station 1+47.50 N 1,895,921.5611 E 1,112,921.2101
 Delta = 47° 11' 33.91" (LT)
 Degree = 22° 03' 01.61"
 Tangent = 113.5015
 Length = 214.0218
 Radius = 259.8395
 External = 23.7080
 Long Chord = 208.0229
 Mid. Ord. = 21.7257
 P.C. Station 0+34.00 N 1,895,939.4440 E 1,113,033.2940
 P.T. Station 2+48.02 N 1,895,827.1794 E 1,112,858.1650
 C.C. N 1,895,682.8498 E 1,113,074.2334
 Back = S 80° 56' 05.70" W
 Ahead = S 33° 44' 31.79" W
 Chord Bear = S 57° 20' 18.74" W

Course from PT E_25TH_H-1 to PC E_25TH_H-2 S 32° 37' 42.19" W Dist 66.3334

Curve Data

Curve E_25TH_H-2
 P.I. Station 4+40.78 N 1,895,664.8380 E 1,112,754.2300
 Delta = 20° 03' 18.60" (RT)
 Degree = 8° 00' 48.22"
 Tangent = 126.4287
 Length = 250.2705
 Radius = 715.0000
 External = 11.0917
 Long Chord = 248.9948
 Mid. Ord. = 10.9223
 P.C. Station 3+14.36 N 1,895,771.3144 E 1,112,822.3988
 P.T. Station 5+64.63 N 1,895,588.1948 E 1,112,653.6813
 C.C. N 1,896,156.8339 E 1,112,220.2363
 Back = S 32° 37' 42.19" W
 Ahead = S 52° 41' 00.78" W
 Chord Bear = S 42° 39' 21.48" W

Curve Data

Curve E_25TH_H-3
 P.I. Station 6+59.28 N 1,895,529.1693 E 1,112,579.6816
 Delta = 15° 07' 57.32" (RT)
 Degree = 8° 02' 24.62"
 Tangent = 94.6570
 Length = 188.2122
 Radius = 712.6188
 External = 6.2591
 Long Chord = 187.6657
 Mid. Ord. = 6.2046
 P.C. Station 5+64.63 N 1,895,588.1948 E 1,112,653.6813
 P.T. Station 7+52.84 N 1,895,491.5086 E 1,112,492.8391
 C.C. N 1,896,145.2961 E 1,112,209.3125
 Back = S 51° 25' 21.29" W
 Ahead = S 66° 33' 18.61" W
 Chord Bear = S 58° 59' 19.95" W

Course from PT E_25TH_H-3 to PC E_25TH_H-4 S 69° 09' 53.66" W Dist 52.2731

Curve Data

Curve E_25TH_H-4
 P.I. Station 8+73.71 N 1,895,451.3535 E 1,112,378.8633
 Delta = 55° 29' 29.90" (LT)
 Degree = 43° 56' 10.81"
 Tangent = 68.5980
 Length = 126.3001
 Radius = 130.4064
 External = 16.9419
 Long Chord = 121.4214
 Mid. Ord. = 14.9939
 P.C. Station 8+05.11 N 1,895,472.9161 E 1,112,443.9843
 P.T. Station 9+31.41 N 1,895,385.4753 E 1,112,359.7390
 C.C. N 1,895,349.1196 E 1,112,484.9751
 Back = S 71° 40' 46.26" W
 Ahead = S 16° 11' 16.36" W
 Chord Bear = S 43° 56' 01.31" W

FILE NAME =	DESIGNED - AJP	REVISED -	benesch	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT PLAN		F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\exp\in\ABC\C2_290_R_Data\exalign_30.dgn	DRAWN - TMB	REVISED -			290	(3435, ETC., 3838)RS-5	COOK	264	46		
USER NAME = tblank	CHECKED - JMM	REVISED -			I-290 RAMP CURVE DATA		CONTRACT NO. 60052				
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -			SCALE: N.T.S.	SHEET NO. 21 OF 22 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			