

RAMP E_THORN_C

Curve Data

Curve E THORN C-1
P.I. Station 1+03.46 N 1,938,756.7776 E 1,068,615.6610
Delta = 0° 55' 32.29" (RT)
Degree = 0° 26' 50.51"
Tangent = 103.4568
Length = 206.9092
Radius = 12,807.4352
External = 0.4178
Long Chord = 206.9069
Mid. Ord. = 0.4178
P.C. Station 0+00.00 N 1,938,860.1212 E 1,068,610.8233
P.T. Station 2+06.91 N 1,938,653.3692 E 1,068,618.8286
C.C. 1,938,261.2350 E 1,055,817.3980
Back = S 2° 40' 48.63" E
Ahead = S 1° 45' 16.34" E
Chord Bear = S 2° 13' 02.49" E

Course from PT E THORN C-1 to PC E THORN C-2 S 1° 45' 16.34" E Dist 238.5675

Curve Data

Curve E THORN C-2
P.I. Station 13+32.33 N 1,937,528.4795 E 1,068,653.2863
Delta = 70° 01' 24.62" (LT)
Degree = 4° 31' 32.64"
Tangent = 886.8498
Length = 1,547.2302
Radius = 1,266.0000
External = 279.7227
Long Chord = 1,452.7210
Mid. Ord. = 229.1025
P.C. Station 4+45.48 N 1,938,414.9136 E 1,068,626.1330
P.T. Station 19+92.71 N 1,937,251.1626 E 1,069,495.6627
C.C. 1,938,453.6756 E 1,069,891.5395
Back = S 1° 45' 16.34" E
Ahead = S 71° 46' 40.96" E
Chord Bear = S 36° 45' 58.65" E

Course from PT E THORN C-2 to 1111 S 71° 46' 40.96" E Dist 312.9444

Point 1111 N 1,937,153.3052 E 1,069,792.9136 Sta 23+05.65

RAMP E_THORN_D

Point 1120 N 1,939,477.1197 E 1,068,412.2968 Sta 0+00.00
Course from 1120 to PC E THORN D-1 S 0° 26' 40.51" W Dist 505.5619

Curve Data

Curve E THORN D-1
P.I. Station 8+67.24 N 1,938,609.9016 E 1,068,405.5675
Delta = 50° 19' 13.87" (RT)
Degree = 7° 26' 27.64"
Tangent = 361.6824
Length = 676.2592
Radius = 770.0000
External = 80.7139
Long Chord = 654.7335
Mid. Ord. = 73.0559
P.C. Station 5+05.56 N 1,938,971.5731 E 1,068,408.3740
P.T. Station 11+81.82 N 1,938,381.1370 E 1,068,125.4230
C.C. 1,938,977.5478 E 1,067,638.3971
Back = S 0° 26' 40.51" W
Ahead = S 50° 45' 54.39" W
Chord Bear = S 25° 36' 17.45" W

Course from PT E THORN D-1 to PC E THORN D-2 S 50° 45' 54.39" W Dist 225.0944

Curve Data

Curve E THORN D-2
P.I. Station 14+61.29 N 1,938,204.3718 E 1,067,908.9567
Delta = 8° 24' 18.64" (LT)
Degree = 7° 44' 33.62"
Tangent = 54.3758
Length = 108.5565
Radius = 740.0000
External = 1.9951
Long Chord = 108.4592
Mid. Ord. = 1.9897
P.C. Station 14+06.92 N 1,938,238.7646 E 1,067,951.0740
P.T. Station 15+15.47 N 1,938,164.1921 E 1,067,872.3190
C.C. 1,937,665.5906 E 1,068,419.1248
Back = S 50° 45' 54.39" W
Ahead = S 42° 21' 35.75" W
Chord Bear = S 46° 33' 45.07" W

Course from PT E THORN D-2 to PC E THORN D-3 S 42° 21' 35.75" W Dist 280.8280

Curve Data

Curve E THORN D-3
P.I. Station 20+57.32 N 1,937,763.8097 E 1,067,507.2328
Delta = 65° 36' 07.55" (RT)
Degree = 14° 08' 49.58"
Tangent = 261.0152
Length = 463.7139
Radius = 405.0000
External = 76.8235
Long Chord = 438.7961
Mid. Ord. = 64.5745
P.C. Station 17+96.30 N 1,937,956.6808 E 1,067,683.1012
P.T. Station 22+60.01 N 1,937,844.3033 E 1,067,258.9392
C.C. 1,938,229.5640 E 1,067,383.8358
Back = S 42° 21' 35.75" W
Ahead = N 72° 02' 16.70" W
Chord Bear = S 75° 09' 39.53" W

Course from PT E THORN D-3 to 1121 N 72° 02' 16.70" W Dist 201.6219

Point 1121 N 1,937,906.4808 E 1,067,067.1442 Sta 24+61.64

RAMP E_THORN_E

Point 1130 N 1,937,540.8806 E 1,068,432.6471 Sta 0+00.00
Course from 1130 to 1131 N 1° 06' 00.79" W Dist 56.6096

Point 1131 N 1,937,597.4798 E 1,068,431.5601 Sta 0+56.61
Course from 1131 to PC E THORN E-1 N 3° 35' 38.82" W Dist 195.9976

Curve Data

Curve E THORN E-1
P.I. Station 4+19.05 N 1,937,959.2025 E 1,068,408.8397
Delta = 40° 06' 13.41" (LT)
Degree = 12° 33' 53.51"
Tangent = 166.4380
Length = 319.1736
Radius = 456.0000
External = 29.4252
Long Chord = 312.6980
Mid. Ord. = 27.6415
P.C. Station 2+52.61 N 1,937,793.0918 E 1,068,419.2734
P.T. Station 5+71.78 N 1,938,079.5360 E 1,068,293.8551
C.C. 1,937,764.5061 E 1,067,964.1703
Back = N 3° 35' 38.82" W
Ahead = N 43° 41' 52.23" W
Chord Bear = N 23° 38' 45.53" W

Curve Data

Curve E THORN E-2
P.I. Station 46+03.10 N 1,940,994.1515 E 1,065,508.7980
Delta = 172° 57' 33.81" (LT)
Degree = 23° 06' 11.29"
Tangent = 4,031.3182
Length = 748.6403
Radius = 248.0000
External = 3,790.9393
Long Chord = 495.0641
Mid. Ord. = 232.7722
P.C. Station 5+71.78 N 1,938,079.5360 E 1,068,293.8551
P.T. Station 13+20.42 N 1,937,760.1414 E 1,067,915.6019
C.C. 1,937,908.2040 E 1,068,114.5528
Back = N 43° 41' 52.23" W
Ahead = S 36° 39' 26.04" E
Chord Bear = S 49° 49' 20.86" W

Curve Data

Curve E THORN E-3
P.I. Station 13+43.54 N 1,937,741.5964 E 1,067,929.4034
Delta = 8° 38' 25.79" (LT)
Degree = 18° 43' 26.80"
Tangent = 23.1170
Length = 46.1464
Radius = 306.0000
External = 0.8720
Long Chord = 46.1027
Mid. Ord. = 0.8695
P.C. Station 13+20.42 N 1,937,760.1414 E 1,067,915.6019
P.T. Station 13+66.57 N 1,937,725.3354 E 1,067,945.8343
C.C. 1,937,942.8315 E 1,068,161.0817
Back = S 36° 39' 26.04" E
Ahead = S 45° 17' 51.83" E
Chord Bear = S 40° 58' 38.94" E

Curve Data

Curve E THORN E-4
P.I. Station 14+65.42 N 1,937,653.0444 E 1,068,013.2521
Delta = 29° 09' 44.28" (LT)
Degree = 15° 04' 40.21"
Tangent = 98.8491
Length = 193.4117
Radius = 380.0000
External = 12.6463
Long Chord = 191.3307
Mid. Ord. = 12.2390
P.C. Station 13+66.57 N 1,937,725.3354 E 1,067,945.8343
P.T. Station 15+59.98 N 1,937,622.7685 E 1,068,107.3505
C.C. 1,937,984.5058 E 1,068,223.7384
Back = S 43° 00' 08.22" E
Ahead = S 72° 09' 52.50" E
Chord Bear = S 57° 35' 00.36" E

Course from PT E THORN E-4 to 1132 S 72° 09' 52.50" E Dist 375.4625

Point 1132 N 1,937,507.7705 E 1,068,464.7684 Sta 19+35.44

FILE NAME =	DESIGNED - AJP	REVISED -
...\\exp\h_ABC.C1.290_R_Data.exalign_42.dgn	DRAWN - TMB	REVISED -
USER NAME = jmajewski	CHECKED - JMM	REVISED -
PLDT DATE = 11/13/2009	DATE - 10/16/09	REVISED -

benesch

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT PLAN
I-290 CURVE DATA**

SCALE: N.T.S. SHEET NO. 34 OF 44 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2211, 1-1, 2&3RS-7	DUPAGE	546	59
*290,355		CONTRACT NO.	60651	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				