

RAMP E_DESPLNS_A

Curve Data

Curve E_DESPLNS_A-1
 P.I. Station = 2+34.50 N 1,896,535.4177 E 1,124,228.6905
 Delta = 3° 58' 57.24" (LT)
 Degree = 0° 50' 58.19"
 Tangent = 234.5018
 Length = 468.8147
 Radius = 6,744.6696
 External = 4.0754
 Long Chord = 468.7203
 Mid. Ord. = 4.0729
 P.C. Station = 0+00.00 N 1,896,487.5638 E 1,123,999.1234
 P.T. Station = 4+68.81 N 1,896,599.1002 E 1,124,454.3797
 C.C. = N 1,903,090.3057 E 1,122,622.7630
 Back = N 78° 13' 30.53" E
 Ahead = N 74° 14' 33.29" E
 Chord Bear = N 76° 14' 01.91" E

Curve Data

Curve E_DESPLNS_A-2
 P.I. Station = 4+89.62 N 1,896,604.7505 E 1,124,474.4043
 Delta = 6° 51' 46.12" (LT)
 Degree = 16° 30' 42.31"
 Tangent = 20.8065
 Length = 41.5632
 Radius = 347.0000
 External = 0.6232
 Long Chord = 41.5383
 Mid. Ord. = 0.6221
 P.C. Station = 4+68.81 N 1,896,599.1002 E 1,124,454.3797
 P.T. Station = 5+10.38 N 1,896,612.7531 E 1,124,493.6102
 C.C. = N 1,896,933.0600 E 1,124,360.1467
 Back = N 74° 14' 33.29" E
 Ahead = N 67° 22' 47.17" E
 Chord Bear = N 70° 48' 40.23" E

Curve Data

Curve E_DESPLNS_A-3
 P.I. Station = 5+15.90 N 1,896,614.8775 E 1,124,498.7088
 Delta = 1° 49' 25.94" (RT)
 Degree = 16° 30' 42.31"
 Tangent = 5.5234
 Length = 11.0459
 Radius = 347.0000
 External = 0.0440
 Long Chord = 11.0454
 Mid. Ord. = 0.0440
 P.C. Station = 5+10.38 N 1,896,612.7531 E 1,124,493.6102
 P.T. Station = 5+21.42 N 1,896,616.8386 E 1,124,503.8723
 C.C. = N 1,896,292.4463 E 1,124,627.0738
 Back = N 67° 22' 47.17" E
 Ahead = N 69° 12' 13.11" E
 Chord Bear = N 68° 17' 30.14" E

Course from PT E_DESPLNS_A-3 to PC E_DESPLNS_A-4 N 69° 12' 13.11" E Dist 37.3640

Curve Data

Curve E_DESPLNS_A-4
 P.I. Station = 5+77.49 N 1,896,636.7436 E 1,124,556.2825
 Delta = 1° 01' 39.56" (RT)
 Degree = 2° 44' 52.80"
 Tangent = 18.6987
 Length = 37.3965
 Radius = 2,085.0000
 External = 0.0838
 Long Chord = 37.3960
 Mid. Ord. = 0.0838
 P.C. Station = 5+58.79 N 1,896,630.1046 E 1,124,538.8020
 P.T. Station = 5+96.18 N 1,896,643.0679 E 1,124,573.8793
 C.C. = N 1,894,680.9460 E 1,125,279.0761
 Back = N 69° 12' 13.11" E
 Ahead = N 70° 13' 52.67" E
 Chord Bear = N 69° 43' 02.89" E

RAMP E_DESPLNS_A

Curve Data

Curve E_DESPLNS_A-5
 P.I. Station = 6+77.08 N 1,896,670.4290 E 1,124,650.0080
 Delta = 7° 12' 16.28" (LT)
 Degree = 4° 27' 31.74"
 Tangent = 80.8963
 Length = 161.5793
 Radius = 1,285.0000
 External = 2.5439
 Long Chord = 161.4729
 Mid. Ord. = 2.5388
 P.C. Station = 5+96.18 N 1,896,643.0679 E 1,124,573.8793
 P.T. Station = 7+57.76 N 1,896,707.1214 E 1,124,722.1042
 C.C. = N 1,897,852.3373 E 1,124,139.2615
 Back = N 70° 13' 52.67" E
 Ahead = N 63° 01' 36.39" E
 Chord Bear = N 66° 37' 44.53" E

Course from PT E_DESPLNS_A-5 to 1461 N 63° 01' 36.39" E Dist 516.9797

Point 1461 N 1,896,941.6101 E 1,125,182.8462 Sta 12+74.74

RAMP E_DESPLNS_B

Curve Data

Curve E_DESPLNS_B-1
 P.I. Station = 13+02.63 N 1,896,930.2188 E 1,125,219.9482
 Delta = 37° 54' 32.40" (RT)
 Degree = 42° 12' 13.33"
 Tangent = 46.6254
 Length = 89.8239
 Radius = 135.7601
 External = 7.7834
 Long Chord = 88.1944
 Mid. Ord. = 7.3613
 P.C. Station = 12+56.00 N 1,896,909.2766 E 1,125,178.2907
 P.T. Station = 13+45.82 N 1,896,921.1471 E 1,125,265.6826
 C.C. = N 1,896,787.9815 E 1,125,239.2684
 Back = N 63° 18' 37.14" E
 Ahead = S 78° 46' 50.46" E
 Chord Bear = N 82° 15' 53.34" E

Course from PT E_DESPLNS_B-1 to 1471 S 78° 46' 50.46" E Dist 23.2738

Point 1471 N 1,896,916.6189 E 1,125,288.5116 Sta 13+69.10

RAMP E_DESPLNS_C

Curve Data

Curve E_DESPLNS_C-1
 P.I. Station = 0+79.13 N 1,896,414.0501 E 1,124,232.7373
 Delta = 3° 34' 52.47" (RT)
 Degree = 2° 15' 49.54"
 Tangent = 79.1252
 Length = 158.1988
 Radius = 2,531.0000
 External = 1.2365
 Long Chord = 158.1730
 Mid. Ord. = 1.2359
 P.C. Station = 0+00.00 N 1,896,410.2172 E 1,124,153.7050
 P.T. Station = 1+58.20 N 1,896,412.9389 E 1,124,311.8546
 C.C. = N 1,893,882.1885 E 1,124,276.3104
 Back = N 87° 13' 24.32" E
 Ahead = S 89° 11' 43.21" E
 Chord Bear = N 89° 00' 50.55" E

Course from PT E_DESPLNS_C-1 to 1481 S 89° 11' 43.21" E Dist 506.6672

Point 1481 N 1,896,405.8235 E 1,124,818.4718 Sta 6+64.87

Course from 1481 to 1482 S 87° 25' 37.12" E Dist 219.1006

Point 1482 N 1,896,395.9875 E 1,125,037.3515 Sta 8+83.97

Course from 1482 to 1483 N 89° 39' 44.31" E Dist 78.4988

Point 1483 N 1,896,396.4501 E 1,125,115.8490 Sta 9+62.47

FILE NAME =	DESIGNED - AJP	REVISED -	benesch	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT PLAN I-290 RAMP CURVE DATA			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...xexpln_ABC.C2.290_RLData_exalign_34.dgn	DRAWN - TMB	REVISED -						290	(3131, ETC., 3435)RS-6	COOK	215	38
USER NAME = tbenk	CHECKED - JMM	REVISED -			SCALE: N.T.S. SHEET NO. 14 OF 16 SHEETS STA. TO STA.			CONTRACT NO. 60K10				
PLOT DATE = 1/25/2010	DATE = 1/25/10	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							