

RAMP E_WOLF_B

Curve Data

Curve E_WOLF_B-1
 P.I. Station = 0+59.42 N 1,895,692.1885 E 1,104,510.6499
 Delta = 1° 53' 22.21" (RT)
 Degree = 1° 35' 24.47"
 Tangent = 59.4188
 Length = 118.8269
 Radius = 3,603.2141
 External = 0.4899
 Long Chord = 118.8215
 Mid. Ord. = 0.4898
 P.C. Station = 0+00.00 N 1,895,670.7382 E 1,104,566.0618
 P.T. Station = 1+18.83 N 1,895,715.4541 E 1,104,455.9753
 C.C. = N 1,899,030.9719 E 1,105,866.8238
 Back = N 68° 50' 18.06" W
 Ahead = N 66° 56' 55.85" W
 Chord Bear = N 67° 53' 36.95" W

Curve Data

Curve E_WOLF_B-2
 P.I. Station = 2+29.38 N 1,895,758.7431 E 1,104,354.2454
 Delta = 3° 30' 57.90" (RT)
 Degree = 1° 35' 26.39"
 Tangent = 110.5573
 Length = 221.0451
 Radius = 3,602.0049
 External = 1.6963
 Long Chord = 221.0104
 Mid. Ord. = 1.6955
 P.C. Station = 1+18.83 N 1,895,715.4541 E 1,104,455.9753
 P.T. Station = 3+39.87 N 1,895,808.1895 E 1,104,255.3619
 C.C. = N 1,899,029.8592 E 1,105,866.3503
 Back = N 66° 56' 55.85" W
 Ahead = N 63° 25' 57.95" W
 Chord Bear = N 65° 11' 26.90" W

Curve Data

Curve E_WOLF_B-3
 P.I. Station = 3+97.32 N 1,895,833.8821 E 1,104,203.9817
 Delta = 1° 41' 06.68" (RT)
 Degree = 1° 28' 00.72"
 Tangent = 57.4459
 Length = 114.8835
 Radius = 3,905.9950
 External = 0.4224
 Long Chord = 114.8794
 Mid. Ord. = 0.4224
 P.C. Station = 3+39.87 N 1,895,808.1895 E 1,104,255.3619
 P.T. Station = 4+54.76 N 1,895,861.0745 E 1,104,153.3793
 C.C. = N 1,899,301.7511 E 1,106,002.3092
 Back = N 63° 25' 57.95" W
 Ahead = N 61° 44' 51.27" W
 Chord Bear = N 62° 35' 24.61" W

RAMP E_WOLF_B

Curve Data

Curve E_WOLF_B-4
 P.I. Station = 4+79.04 N 1,895,872.5717 E 1,104,131.9842
 Delta = 0° 54' 35.74" (RT)
 Degree = 1° 52' 23.51"
 Tangent = 24.2886
 Length = 48.5762
 Radius = 3,058.7161
 External = 0.0964
 Long Chord = 48.5757
 Mid. Ord. = 0.0964
 P.C. Station = 4+54.76 N 1,895,861.0745 E 1,104,153.3793
 P.T. Station = 5+03.33 N 1,895,884.4072 E 1,104,110.7743
 C.C. = N 1,898,555.4079 E 1,105,601.2438
 Back = N 61° 44' 51.27" W
 Ahead = N 60° 50' 15.53" W
 Chord Bear = N 61° 17' 33.40" W

Curve Data

Curve E_WOLF_B-5
 P.I. Station = 5+35.88 N 1,895,900.2681 E 1,104,082.3507
 Delta = 1° 02' 26.77" (RT)
 Degree = 1° 35' 55.65"
 Tangent = 32.5495
 Length = 65.0972
 Radius = 3,583.6940
 External = 0.1478
 Long Chord = 65.0963
 Mid. Ord. = 0.1478
 P.C. Station = 5+03.33 N 1,895,884.4072 E 1,104,110.7743
 P.T. Station = 5+68.43 N 1,895,916.6427 E 1,104,054.2199
 C.C. = N 1,899,013.8409 E 1,105,857.0582
 Back = N 60° 50' 15.53" W
 Ahead = N 59° 47' 48.76" W
 Chord Bear = N 60° 19' 02.15" W

RAMP E_WOLF_C

Curve Data

Curve E_WOLF_C-1
 P.I. Station = 6+64.54 N 1,895,951.3429 E 1,103,963.1942
 Delta = 3° 02' 12.52" (RT)
 Degree = 1° 34' 59.04"
 Tangent = 95.9379
 Length = 191.8309
 Radius = 3,619.2902
 External = 1.2713
 Long Chord = 191.8085
 Mid. Ord. = 1.2709
 P.C. Station = 5+68.60 N 1,895,903.0797 E 1,104,046.1083
 P.T. Station = 7+60.43 N 1,896,003.9309 E 1,103,882.9533
 C.C. = N 1,899,031.0418 E 1,105,866.8539
 Back = N 59° 47' 48.76" W
 Ahead = N 56° 45' 36.24" W
 Chord Bear = N 58° 16' 42.50" W

Curve Data

Curve E_WOLF_C-2
 P.I. Station = 9+26.86 N 1,896,095.1571 E 1,103,743.7570
 Delta = 10° 15' 45.33" (RT)
 Degree = 3° 05' 29.35"
 Tangent = 166.4267
 Length = 331.9630
 Radius = 1,853.3406
 External = 7.4574
 Long Chord = 331.5194
 Mid. Ord. = 7.4275
 P.C. Station = 7+60.43 N 1,896,003.9309 E 1,103,882.9533
 P.T. Station = 10+92.39 N 1,896,209.7229 E 1,103,623.0404
 C.C. = N 1,897,554.0325 E 1,104,898.8551
 Back = N 56° 45' 36.24" W
 Ahead = N 46° 29' 50.91" W
 Chord Bear = N 51° 37' 43.58" W

Course from PT E_WOLF_C-2 to PC E_WOLF_C-3 N 45° 11' 05.73" W Dist 186.1661

Curve Data

Curve E_WOLF_C-3
 P.I. Station = 13+18.50 N 1,896,368.4332 E 1,103,462.0060
 Delta = 3° 13' 58.76" (LT)
 Degree = 4° 02' 53.40"
 Tangent = 39.9421
 Length = 79.8630
 Radius = 1,415.3514
 External = 0.5635
 Long Chord = 79.8524
 Mid. Ord. = 0.5633
 P.C. Station = 12+78.56 N 1,896,340.9367 E 1,103,490.9769
 P.T. Station = 13+58.42 N 1,896,394.2521 E 1,103,431.5304
 C.C. = N 1,895,314.3497 E 1,102,516.6368
 Back = N 46° 29' 44.62" W
 Ahead = N 49° 43' 43.38" W
 Chord Bear = N 48° 06' 44.00" W

Curve Data

Curve E_WOLF_C-4
 P.I. Station = 14+27.13 N 1,896,438.6678 E 1,103,379.1040
 Delta = 25° 56' 33.19" (LT)
 Degree = 19° 12' 25.66"
 Tangent = 68.7116
 Length = 135.0673
 Radius = 298.3048
 External = 7.8113
 Long Chord = 133.9165
 Mid. Ord. = 7.6119
 P.C. Station = 13+58.42 N 1,896,394.2521 E 1,103,431.5304
 P.T. Station = 14+93.49 N 1,896,455.6728 E 1,103,312.5299
 C.C. = N 1,896,166.6478 E 1,103,238.7040
 Back = N 49° 43' 43.38" W
 Ahead = N 75° 40' 16.57" W
 Chord Bear = N 62° 41' 59.97" W

FILE NAME =	DESIGNED = AJP	REVISED =
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USER NAME = tblank	CHECKED = JMM	REVISED =
PLOT DATE = 1/25/2010	DATE = 1/25/10	REVISED =



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT PLAN
 I-290 RAMP CURVE DATA

SCALE: N.T.S. SHEET NO. 14 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3435, ETC., 3838)RS-5	COOK	264	39
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60C52	