

EXISTING HORIZONTAL & VERTICAL CONTROL

I-74

Curve Data

Curve 08403310
 P.I. Station 325+48.73 N 1,743,821.2270 E 2,215,026.6511
 Delta = 12° 40' 58.46" (RT)
 Degree = 0° 29' 59.19"
 Tangent = 1,274.0684'
 Length = 2,537.7236'
 Radius = 11,464.3182'
 External = 70.5785'
 Long Chord = 2,532.5456'
 Mid. Ord. = 70.1467'
 P.C. Station 312+74.67 N 1,743,794.3197 E 2,213,752.8669
 P.T. Station 338+12.39 N 1,743,567.8118 E 2,216,275.2628
 C.C. N 1,732,332.5585 E 2,213,994.9837

Course from PT 08403310 to PC 08403320 101° 28' 21.99" Dist 949.3125'

Curve Data

Curve 08403320
 P.I. Station 355+68.82 N 1,743,218.4532 E 2,217,996.6013
 Delta = 16° 04' 35.48" (LT)
 Degree = 1° 00' 09.01"
 Tangent = 807.1207'
 Length = 1,603.6368'
 Radius = 5,715.2670'
 External = 56.7102'
 Long Chord = 1,598.3814'
 Mid. Ord. = 56.1530'
 P.C. Station 347+61.70 N 1,743,378.9914 E 2,217,205.6074
 P.T. Station 363+65.34 N 1,743,283.2361 E 2,218,801.1180
 C.C. N 1,748,980.0635 E 2,218,342.3871

Course from PT 08403320 to PC 08403330 85° 23' 46.51" Dist 7,198.7266'

Curve Data

Curve 08403330
 P.I. Station 467+00.83 N 1,744,112.8048 E 2,229,103.2581
 Delta = 24° 40' 27.13" (LT)
 Degree = 0° 23' 58.20"
 Tangent = 3,136.7596'
 Length = 6,176.2630'
 Radius = 14,341.8539'
 External = 339.0192'
 Long Chord = 6,128.6475'
 Mid. Ord. = 331.1903'
 P.C. Station 435+64.07 N 1,743,861.0356 E 2,225,976.6188
 P.T. Station 497+40.33 N 1,745,646.8271 E 2,231,839.3203
 C.C. N 1,758,156.6174 E 2,224,825.4825

Course from PT 08403330 to PC 08403340 60° 43' 19.38" Dist 1,681.8901'

Curve Data

Curve 08403340
 P.I. Station 547+74.50 N 1,748,108.7745 E 2,236,230.4179
 Delta = 82° 33' 56.24" (RT)
 Degree = 1° 30' 02.24"
 Tangent = 3,352.2853'
 Length = 5,502.0939'
 Radius = 3,818.1358'
 External = 1,262.8068'
 Long Chord = 5,038.2307'
 Mid. Ord. = 948.9515'
 P.C. Station 514+22.22 N 1,746,469.3501 E 2,233,306.3617
 P.T. Station 569+24.31 N 1,745,421.4248 E 2,238,234.4061
 C.C. N 1,743,138.9523 E 2,235,173.6088

Course from PT 08403340 to PC 08403350 143° 17' 15.62" Dist 5,392.9603'

Curve Data

Curve 08403350
 P.I. Station 650+83.63 N 1,738,880.5287 E 2,243,112.0292
 Delta = 51° 35' 50.40" (LT)
 Degree = 1° 00' 04.24"
 Tangent = 2,766.3613'
 Length = 5,153.6592'
 Radius = 5,722.8331'
 External = 633.5474'
 Long Chord = 4,981.2700'
 Mid. Ord. = 570.4011'
 P.C. Station 623+17.27 N 1,741,098.1741 E 2,241,458.3050
 P.T. Station 674+70.93 N 1,738,798.9273 E 2,245,877.1867
 C.C. N 1,744,519.2701 E 2,246,045.9973

Course from PT 08403350 to PC 08403360 91° 41' 25.23" Dist 2,157.2500'

Curve Data

Curve 08403360
 P.I. Station 701+90.27 N 1,738,718.7130 E 2,248,595.3400
 Delta = 0° 20' 14.94" (LT)
 Degree = 0° 01' 48.07"
 Tangent = 562.0866'
 Length = 1,124.1700'
 Radius = 190,854.8615'
 External = 0.8277'
 Long Chord = 1,124.1684'
 Mid. Ord. = 0.8277'
 P.C. Station 696+28.18 N 1,738,735.2933 E 2,248,033.4980
 P.T. Station 707+52.35 N 1,738,705.4423 E 2,249,157.2699
 C.C. N 1,929,507.1037 E 2,253,663.2851

Course from PT 08403360 to PC 084031260 91° 21' 10.29" Dist 2,680.2247'

Curve Data

Curve 084031260
 P.I. Station 747+19.34 N 1,737,387.1592 E 2,252,120.8499
 Delta = 12° 51' 03.98" (RT)
 Degree = 0° 30' 05.27"
 Tangent = 1,286.7591'
 Length = 2,562.7202'
 Radius = 11,425.7143'
 External = 72.2288'
 Long Chord = 2,557.3517'
 Mid. Ord. = 71.7751'
 P.C. Station 734+32.58 N 1,738,642.1632 E 2,251,836.7475
 P.T. Station 759+95.30 N 1,736,100.4019 E 2,252,118.7001
 C.C. N 1,736,119.4903 E 2,240,693.0018

Course from PT 084031260 to PC 05202300 180° 05' 44.60" Dist 19,725.6074'

Curve Data

Curve 05202300
 P.I. Station 975+04.44 N 1,714,591.2868 E 2,252,082.7659
 Delta = 5° 51' 38.69" (RT)
 Degree = 0° 09' 52.00"
 Tangent = 1,783.5378'
 Length = 3,563.9649'
 Radius = 34,842.0000'
 External = 45.6192'
 Long Chord = 3,562.4113'
 Mid. Ord. = 45.5595'
 P.C. Station 957+20.90 N 1,716,374.8221 E 2,252,085.7456
 P.T. Station 992+84.87 N 1,712,817.3782 E 2,251,897.6831
 C.C. N 1,716,433.0309 E 2,217,243.7942

Course from PT 05202300 to PC 02906310 185° 57' 23.29" Dist 12,364.0491'

Curve Data

Curve 02906310
 P.I. Station 1142+33.36 N 1,697,949.5957 E 2,250,346.4362
 Delta = 8° 30' 56.95" (LT)
 Degree = 0° 09' 54.20"
 Tangent = 2,584.4399'
 Length = 5,159.3610'
 Radius = 34,713.0000'
 External = 96.0749'
 Long Chord = 5,154.6134'
 Mid. Ord. = 95.8098'
 P.C. Station 1116+48.92 N 1,700,520.0823 E 2,250,614.6309
 P.T. Station 1168+08.28 N 1,695,367.7338 E 2,250,461.8424
 C.C. N 1,696,917.8163 E 2,285,140.2163

Course from PT 02906310 to PC 02906320 177° 26' 26.23" Dist 3,223.5584'

Curve Data

Curve 02906320
 P.I. Station 1210+80.53 N 1,691,099.7471 E 2,250,652.6205
 Delta = 3° 13' 19.04" (RT)
 Degree = 0° 09' 13.17"
 Tangent = 1,048.6901'
 Length = 2,096.8274'
 Radius = 37,287.7200'
 External = 14.7439'
 Long Chord = 2,096.5511'
 Mid. Ord. = 14.7381'
 P.C. Station 1200+31.84 N 1,692,147.3910 E 2,250,605.7896
 P.T. Station 1221+28.67 N 1,690,051.1272 E 2,250,640.4955
 C.C. N 1,690,482.2501 E 2,213,355.2679

Course from PT 02906320 to PC 02906330 180° 39' 44.53" Dist 8,201.9886'

Curve Data

Curve 02906330
 P.I. Station 1314+36.19 N 1,680,744.2203 E 2,250,532.8955
 Delta = 10° 17' 26.14" (LT)
 Degree = 0° 28' 00.00"
 Tangent = 1,105.5402'
 Length = 2,205.1335'
 Radius = 12,277.7000'
 External = 49.6735'
 Long Chord = 2,202.1709'
 Mid. Ord. = 49.4733'
 P.C. Station 1303+30.65 N 1,681,849.6866 E 2,250,545.6784
 P.T. Station 1325+35.79 N 1,679,654.2526 E 2,250,717.7995
 C.C. N 1,681,707.7249 E 2,262,822.5576

Course from PT 02906330 to PC 02906340 170° 22' 19.34" Dist 5,139.0153'

Curve Data

Curve 02906340
 P.I. Station 1388+04.73 N 1,673,473.6083 E 2,251,766.2813
 Delta = 10° 30' 58.91" (RT)
 Degree = 0° 28' 00.00"
 Tangent = 1,129.9301'
 Length = 2,253.5123'
 Radius = 12,277.7000'
 External = 51.8847'
 Long Chord = 2,250.3504'
 Mid. Ord. = 51.6664'
 P.C. Station 1376+74.80 N 1,674,587.6227 E 2,251,577.2995
 P.T. Station 1399+28.31 N 1,672,343.8140 E 2,251,748.7630
 C.C. N 1,672,534.1662 E 2,239,472.5387

Course from PT 02906340 to PC 00298200 180° 53' 17.96" Dist 2,950.8826'

FILE NAME =	USER NAME = ranke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING HORIZONTAL & VERTICAL CONTROL			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pw_work\p\dot\ranke\140292974\02	ht-ATB.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	**	151	23
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -								**		
	PLOT DATE = Mon Apr 30 14:17:41 2012	DATE -	REVISED -								CONTRACT NO. 64H77		