

HORIZONTAL & VERTICAL CONTROL

Curve Data

Curve A044220
 P.I. Station 1036+63.7533 N 1,873,386.4920 E 2,612,097.4062
 Delta = 3° 22' 30.7789" (LT)
 Degree = 0° 14' 00.0005"
 Tangent = 723.4695'
 Length = 1,446.5205'
 Radius = 24,555.3200'
 External = 10.6554'
 Long Chord = 1,446.3113'
 Mid. Ord. = 10.6508'
 P.C. Station 1029+40.2839 N 1,872,663.3636 E 2,612,075.1949
 P.T. Station 1043+86.8043 N 1,874,109.6737 E 2,612,077.0052
 C.C. N 1,873,417.2402 E 2,587,531.4500

Course from PT A044220 to PC A0441280 358° 23' 02.7835" Dist 9,773.1286'

Curve Data

Curve A0441280
 P.I. Station 1146+59.9329 N 1,884,378.7170 E 2,611,787.3140
 Delta = 0° 17' 24.8599" (RT)
 Degree = 0° 01' 44.4862"
 Tangent = 500.0000'
 Length = 999.9979'
 Radius = 197,408.6362'
 External = 0.6332'
 Long Chord = 999.9968'
 Mid. Ord. = 0.6332'
 P.C. Station 1141+59.9329 N 1,883,878.9158 E 2,611,801.4135
 P.T. Station 1151+59.9307 N 1,884,878.5832 E 2,611,775.7465
 C.C. N 1,889,445.6268 E 2,809,131.5464

Course from PT A0441280 to PC A044230 358° 40' 27.6434" Dist 17,358.0759'

Curve Data

Curve A044230
 P.I. Station 1336+59.2513 N 1,903,372.9524 E 2,611,347.7652
 Delta = 22° 31' 48.0609" (LT)
 Degree = 0° 59' 59.9987"
 Tangent = 1,141.2446'
 Length = 2,253.0025'
 Radius = 5,729.5800'
 External = 112.5537'
 Long Chord = 2,238.5152'
 Mid. Ord. = 110.3853'
 P.C. Station 1325+18.0067 N 1,902,232.0132 E 2,611,374.1679
 P.T. Station 1347+71.0092 N 1,904,416.6972 E 2,610,886.2069
 C.C. N 1,902,099.4595 E 2,605,646.1214

Course from PT A044230 to PC A044240 336° 08' 39.5825" Dist 5,565.4684'

Curve Data

Curve A044240
 P.I. Station 1427+93.2628 N 1,911,753.5868 E 2,607,641.7338
 Delta = 22° 37' 51.7449" (RT)
 Degree = 0° 27' 59.9955"
 Tangent = 2,456.7853'
 Length = 4,849.5216'
 Radius = 12,277.7000'
 External = 243.3907'
 Long Chord = 4,818.0583'
 Mid. Ord. = 238.6595'
 P.C. Station 1403+36.4776 N 1,909,506.6917 E 2,608,635.3416
 P.T. Station 1451+85.9992 N 1,914,209.8109 E 2,607,589.2268
 C.C. N 1,914,472.2126 E 2,619,864.1224

Course from PT A044240 to PC A044250 358° 46' 31.3275" Dist 14,548.9351'

Curve Data

Curve A044250
 P.I. Station 1612+73.7835 N 1,930,293.9205 E 2,607,245.3951
 Delta = 12° 15' 49.6595" (RT)
 Degree = 0° 24' 00.0045"
 Tangent = 1,538.8491'
 Length = 3,065.9390'
 Radius = 14,323.9000'
 External = 82.4239'
 Long Chord = 3,060.0896'
 Mid. Ord. = 81.9523'
 P.C. Station 1597+34.9344 N 1,928,755.4229 E 2,607,278.2838
 P.T. Station 1628+00.8733 N 1,931,804.2956 E 2,607,540.0538
 C.C. N 1,929,061.5564 E 2,621,598.9120

Course from PT A044250 to PC A044260 11° 02' 20.9869" Dist 2,021.4285'

Curve Data

Curve A044260
 P.I. Station 1663+42.3295 N 1,935,280.2225 E 2,608,218.1716
 Delta = 12° 06' 53.7080" (LT)
 Degree = 0° 24' 00.0045"
 Tangent = 1,520.0276'
 Length = 3,028.7202'
 Radius = 14,323.9000'
 External = 80.4256'
 Long Chord = 3,023.0812'
 Mid. Ord. = 79.9765'
 P.C. Station 1648+22.3019 N 1,933,788.3207 E 2,607,927.1168
 P.T. Station 1678+51.0221 N 1,936,799.9822 E 2,608,189.6340
 C.C. N 1,936,531.0599 E 2,593,868.2586

Course from PT A044260 to PC 02702200 358° 55' 27.2789" Dist 22,165.3864'

Curve Data

Curve 02702200
 P.I. Station 1914+60.8180 N 1,960,405.6167 E 2,607,746.3748
 Delta = 7° 41' 30.9930" (RT)
 Degree = 0° 15' 59.9999"
 Tangent = 1,444.4094'
 Length = 2,884.4788'
 Radius = 21,485.9200'
 External = 48.4961'
 Long Chord = 2,882.3132'
 Mid. Ord. = 48.3869'
 P.C. Station 1900+16.4085 N 1,958,961.4619 E 2,607,773.4926
 P.T. Station 1929+00.8873 N 1,961,840.4068 E 2,607,912.7964
 C.C. N 1,959,364.8467 E 2,629,255.6257

Course from PT 02702200 to PC 02702210 6° 36' 58.2719" Dist 2,049.3662'

Curve Data

Curve 02702210
 P.I. Station 1966+12.2389 N 1,965,527.0417 E 2,608,340.4101
 Delta = 21° 53' 01.2877" (LT)
 Degree = 0° 39' 59.3348"
 Tangent = 1,661.9854'
 Length = 3,283.4637'
 Radius = 8,596.7497'
 External = 159.1798'
 Long Chord = 3,263.5421'
 Mid. Ord. = 156.2859'
 P.C. Station 1949+50.2535 N 1,963,876.1247 E 2,608,148.9198
 P.T. Station 1982+33.7172 N 1,967,130.3705 E 2,607,902.7662
 C.C. N 1,964,866.6231 E 2,599,609.4223

Course from PT 02702210 to PC 02702220 344° 43' 56.9842" Dist 700.5475'

Curve Data

Curve 02702220
 P.I. Station 2006+95.5160 N 1,969,505.2847 E 2,607,254.5107
 Delta = 13° 59' 11.3347" (RT)
 Degree = 0° 23' 56.5602"
 Tangent = 1,761.2512'
 Length = 3,504.9930'
 Radius = 14,358.2430'
 External = 107.6185'
 Long Chord = 3,496.2969'
 Mid. Ord. = 106.8178'
 P.C. Station 1989+34.2647 N 1,967,806.1935 E 2,607,718.2939
 P.T. Station 2024+39.2577 N 1,971,266.0958 E 2,607,215.1358
 C.C. N 1,971,587.0915 E 2,621,569.7903

Course from PT 02702220 to 1251220 358° 43' 08.3189" Dist 4,961.8655'

Point 1251220 N 1,976,226.7211 E 2,607,104.2074 Sta 2074+01.1232

Course from 1251220 to 1251230 358° 42' 47.2167" Dist 12,433.2331'

Point 1251230 N 1,988,656.8182 E 2,606,824.9759 Sta 2198+34.3562

Course from 1251230 to 1251240 358° 43' 25.9716" Dist 11,067.4536'

Point 1251240 N 1,999,721.5269 E 2,606,578.4967 Sta 2309+01.8099

Course from 1251240 to PC 125001200 358° 43' 14.5408" Dist 15,579.6486'

Curve Data

Curve 125001200
 P.I. Station 2482+69.5493 N 2,017,084.9373 E 2,606,190.7438
 Delta = 50° 10' 10.5362" (RT)
 Degree = 1° 29' 59.8803"
 Tangent = 1,788.0908'
 Length = 3,344.7137'
 Radius = 3,819.8033'
 External = 397.7986'
 Long Chord = 3,238.8809'
 Mid. Ord. = 360.2788'
 P.C. Station 2464+81.4585 N 2,015,297.2922 E 2,606,230.6648
 P.T. Station 2498+26.1722 N 2,018,260.6120 E 2,607,537.9845
 C.C. N 2,015,382.5733 E 2,610,049.5160

Course from PT 125001200 to PC 12500200 48° 53' 25.0769" Dist 1,267.3440'

Curve Data

Curve 12500200
 P.I. Station 2523+70.4014 N 2,019,933.4499 E 2,609,454.9393
 Delta = 48° 02' 44.7033" (LT)
 Degree = 1° 59' 59.8406"
 Tangent = 1,276.8852'
 Length = 2,402.3407'
 Radius = 2,864.8524'
 External = 271.6768'
 Long Chord = 2,332.5705'
 Mid. Ord. = 248.1449'
 P.C. Station 2510+93.5162 N 2,019,093.8942 E 2,608,492.8675
 P.T. Station 2534+95.8569 N 2,021,210.1964 E 2,609,473.7601
 C.C. N 2,021,252.4232 E 2,606,609.2189

Course from PT 12500200 to 12500210 0° 50' 40.3736" Dist 3,673.2929'

Point 12500210 N 2,024,883.0902 E 2,609,527.9030 Sta 2571+69.1497

Course from 12500210 to PC 12500220 89° 20' 54.4507" Dist 3,962.2429'

FILE NAME =	USER NAME = dssdd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-39 HORIZONTAL & VERTICAL CONTROL	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwwork\WPIDOT\DOSSDD\0149531\020589-ht-HVC.dgn		DRAWN -	REVISED -			39	(103-1, 103-2)RS	LEE	313	76
PLOT SCALE = 5000.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E97				
PLOT DATE = Fri Mar 26 07:23:53 2010		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	