

# EXISTING HORIZONTAL & VERTICAL CONTROL

## 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 N 23° 51' 20.4175" W 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 N 1° 13' 28.6725" W 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 N 11° 02' 20.9869" E 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 N 1° 04' 32.7211" W 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 N 6° 36' 58.2719" E 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 N 15° 16' 03.0158" W 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 N 1° 16' 51.6811" W 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 N 1° 17' 12.7833" W 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 N 1° 16' 34.0284" W 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 N 1° 16' 45.4592" W 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 N 48° 53' 25.0769" E 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 N 0° 50' 40.3736" E 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 N 89° 20' 54.4507" E Dist 3,962.2429'

## Curve Data

**Curve 12500220**  
P.I. Station 2638+44.9111 N 2,024,959.0023 E 2,616,203.2328  
Delta = 50° 40' 59.9974" (LT)  
Degree = 0° 59' 59.9204"  
Tangent = 2,713.5185'  
Length = 5,068.4453'  
Radius = 5,729.7047'  
External = 610.0665'  
Long Chord = 4,904.8015'  
Mid. Ord. = 551.3607'  
P.C. Station 2611+31.3927 N 2,024,928.1461 E 2,613,489.8897  
P.T. Station 2661+99.8380 N 2,027,077.7469 E 2,617,898.5510  
C.C. N 2,030,657.4803 E 2,613,424.7356

Course from PT 12500220 to PC 12500230 N 38° 39' 54.4533" E Dist 5,141.9331'

## Curve Data

**Curve 12500230**  
P.I. Station 2724+10.2751 N 2,031,926.9234 E 2,621,778.6304  
Delta = 17° 40' 00.0918" (LT)  
Degree = 0° 49' 59.9338"  
Tangent = 1,068.5040'  
Length = 2,120.0498'  
Radius = 6,875.6452'  
External = 82.5297'  
Long Chord = 2,111.6613'  
Mid. Ord. = 81.5508'  
P.C. Station 2713+41.7711 N 2,031,092.6239 E 2,621,111.0638  
P.T. Station 2734+61.8209 N 2,032,924.4683 E 2,622,161.5207  
C.C. N 2,035,388.3037 E 2,615,742.4855

Course from PT 12500230 to 1251002 N 20° 59' 54.3615" E Dist 2,817.0876'

Point 1251002 N 2,035,554.4738 E 2,623,171.0027 Sta 2762+78.9085

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Ending chain I39\_D2 description

FILE NAME =	USER NAME = dossdd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING HORIZONTAL &amp; VERTICAL CONTROL</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw_\work\p1dot\dossdd\0293945\022051	2-sh-t-HVC.dgn	DRAWN -	REVISED -				D2 SAFETY 2012-1	**	175	19	
	PLOT SCALE = 25000.0000' / in.	CHECKED -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
	PLOT DATE = Wed Jun 13 09:07:56 2012	DATE -	REVISED -			ILLINOIS FED. AID PROJECT * FAI 39, FAP 301 (US 20) ** LEE, OGLE, WINNEBAGO AND STEPHENSON COUNTIES					