

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	28-50-M	JO DAVIESS	27	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

# EXISTING HORIZONTAL AND VERTICAL CONTROL

Chain LOOP contains:  
8 CUR 220 CUR 230 CUR 240 CUR 250 CUR 260 CUR 270 CUR 280

Beginning chain LOOP description  
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Point 8 N 2,064,110.0512 E 2,267,548.4147 Sta 20+00.00

Course from 8 to PC 220 S 70° 30' 21.0612" E Dist 21.0237

Curve Data  
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Curve 220  
P.I. Station 21+88.30 N 2,064,047.2123 E 2,267,725.9240  
Delta = 27° 09' 39.3107" (RT)  
Degree = 8° 16' 26.1495"  
Tangent = 167.2799  
Length = 328.2711  
Radius = 692.4856  
External = 19.9180  
Long Chord = 325.2060  
Mid. Ord. = 19.3611  
P.C. Station 20+21.02 N 2,064,103.0354 E 2,267,568.2332  
P.T. Station 23+49.29 N 2,063,925.5605 E 2,267,840.7430  
C.C. N 2,063,450.2461 E 2,267,337.1434  
Back = S 70° 30' 21.0612" E  
Ahead = S 43° 20' 41.7505" E  
Chord Bear = S 56° 55' 31.4059" E

Curve Data  
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Curve 230  
P.I. Station 24+30.72 N 2,063,866.3434 E 2,267,896.6342  
Delta = 37° 26' 06.4770" (LT)  
Degree = 23° 50' 27.3172"  
Tangent = 81.4278  
Length = 157.0205  
Radius = 240.3254  
External = 13.4201  
Long Chord = 154.2424  
Mid. Ord. = 12.7103  
P.C. Station 23+49.29 N 2,063,925.5605 E 2,267,840.7430  
P.T. Station 25+06.32 N 2,063,853.2967 E 2,267,977.0099  
C.C. N 2,064,090.5172 E 2,268,015.5160  
Back = S 43° 20' 41.7505" E  
Ahead = S 80° 46' 48.2275" E  
Chord Bear = S 62° 03' 44.9890" E

Curve Data  
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Curve 240  
P.I. Station 26+69.32 N 2,063,827.1800 E 2,268,137.9046  
Delta = 73° 01' 27.3531" (LT)  
Degree = 26° 01' 17.9536"  
Tangent = 163.0005  
Length = 280.6288  
Radius = 220.1850  
External = 53.7686  
Long Chord = 262.0171  
Mid. Ord. = 43.2155  
P.C. Station 25+06.32 N 2,063,853.2967 E 2,267,977.0099  
P.T. Station 27+86.94 N 2,063,973.4390 E 2,268,209.8592  
C.C. N 2,064,070.6370 E 2,268,012.2890  
Back = S 80° 46' 48.2275" E  
Ahead = N 26° 11' 44.4194" E  
Chord Bear = N 62° 42' 28.0960" E

Curve Data  
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Curve 250  
P.I. Station 28+97.04 N 2,064,072.2299 E 2,268,258.4611  
Delta = 84° 37' 28.6558" (LT)  
Degree = 47° 22' 24.3768"  
Tangent = 110.0990  
Length = 178.6331  
Radius = 120.9449

External = 42.6077  
Long Chord = 162.8334  
Mid. Ord. = 31.5078  
P.C. Station 27+86.94 N 2,063,973.4390 E 2,268,209.8592  
P.T. Station 29+65.58 N 2,064,129.8728 E 2,268,164.6577  
C.C. N 2,064,026.8287 E 2,268,101.3363  
Back = N 26° 11' 44.4194" E  
Ahead = N 58° 25' 44.2364" W  
Chord Bear = N 16° 06' 59.9085" W

Course from PT 250 to PC 260 N 58° 25' 44.2363" W Dist 23.0551

Curve Data  
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Curve 260  
P.I. Station 30+27.45 N 2,064,162.2640 E 2,268,111.9467  
Delta = 58° 14' 33.8435" (LT)  
Degree = 82° 14' 12.4951"  
Tangent = 38.8128  
Length = 70.8232  
Radius = 69.6717  
External = 10.0815  
Long Chord = 67.8130  
Mid. Ord. = 8.8071  
P.C. Station 29+88.63 N 2,064,141.9434 E 2,268,145.0149  
P.T. Station 30+59.46 N 2,064,144.8419 E 2,268,077.2638  
C.C. N 2,064,082.5837 E 2,268,108.5379  
Back = N 58° 25' 44.2364" W  
Ahead = S 63° 19' 41.9201" W  
Chord Bear = N 87° 33' 01.1581" W

Course from PT 260 to PC 270 S 63° 19' 41.9201" W Dist 90.4679

Curve Data  
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Curve 270  
P.I. Station 32+84.42 N 2,064,043.8617 E 2,267,876.2398  
Delta = 34° 38' 13.0262" (RT)  
Degree = 13° 17' 01.8577"  
Tangent = 134.4935  
Length = 260.7448  
Radius = 431.3191  
External = 20.4825  
Long Chord = 256.7925  
Mid. Ord. = 19.5539  
P.C. Station 31+49.92 N 2,064,104.2328 E 2,267,996.4223  
P.T. Station 34+10.67 N 2,064,062.4988 E 2,267,743.0438  
C.C. N 2,064,489.6567 E 2,267,802.8129  
Back = S 63° 19' 41.9201" W  
Ahead = N 82° 02' 05.0536" W  
Chord Bear = S 80° 38' 48.4332" W

Curve Data  
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Curve 280  
P.I. Station 35+11.35 N 2,064,076.4512 E 2,267,643.3291  
Delta = 11° 31' 43.9924" (RT)  
Degree = 5° 44' 40.4043"  
Tangent = 100.6861  
Length = 200.6924  
Radius = 997.3925  
External = 5.0692  
Long Chord = 200.3540  
Mid. Ord. = 5.0436  
P.C. Station 34+10.67 N 2,064,062.4988 E 2,267,743.0438  
P.T. Station 36+11.36 N 2,064,110.0512 E 2,267,548.4147  
C.C. N 2,065,050.2688 E 2,267,881.2552  
Back = N 82° 02' 05.0536" W  
Ahead = N 70° 30' 21.0612" W  
Chord Bear = N 76° 16' 13.0574" W

Ending chain LOOP description  
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Chain OUTLOOKDR contains:  
2117 CUR 200 CUR 210 7

Beginning chain OUTLOOKDR description  
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Point 2117 N 2,064,572.7810 E 2,266,921.7460 Sta 10+00.00

Course from 2117 to PC 200 N 41° 03' 48.0321" E Dist 15.7462

Curve Data  
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Curve 200  
P.I. Station 10+89.32 N 2,064,640.1301 E 2,266,980.4225  
Delta = 109° 02' 36.9678" (RT)  
Degree = 109° 15' 30.5775"  
Tangent = 73.5782  
Length = 99.8033  
Radius = 52.4406  
External = 37.9130  
Long Chord = 85.4085  
Mid. Ord. = 22.0044  
P.C. Station 10+15.75 N 2,064,584.6534 E 2,266,932.0896  
P.T. Station 11+15.55 N 2,064,576.3410 E 2,267,017.0926  
C.C. N 2,064,550.2055 E 2,266,971.6289  
Back = N 41° 03' 48.0321" E  
Ahead = S 29° 53' 35.0001" E  
Chord Bear = S 84° 24' 53.4840" E

Course from PT 200 to PC 210 S 29° 53' 35.0001" E Dist 53.3152

Curve Data  
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Curve 210  
P.I. Station 15+18.43 N 2,064,227.0614 E 2,267,217.8810  
Delta = 40° 36' 46.0611" (LT)  
Degree = 6° 03' 54.5428"  
Tangent = 349.5647  
Length = 669.6090  
Radius = 944.6720  
External = 62.6019  
Long Chord = 655.6786  
Mid. Ord. = 58.7112  
P.C. Station 11+68.86 N 2,064,530.1190 E 2,267,043.6640  
P.T. Station 18+38.47 N 2,064,110.4079 E 2,267,547.4071  
C.C. N 2,065,000.9271 E 2,267,862.6541  
Back = S 29° 53' 35.0001" E  
Ahead = S 70° 30' 21.0612" E  
Chord Bear = S 50° 11' 58.0307" E

Course from PT 210 to 7 S 70° 30' 21.0612" E Dist 1.0689

Point 7 N 2,064,110.0512 E 2,267,548.4147 Sta 18+39.54

Ending chain OUTLOOKDR description  
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CURVE	PI	CC	PC	PT
200	200	201	202	203
210	210	211	212	213
220	220	221	222	223
230	230	231	232	233
240	240	241	242	243
250	250	251	252	253
260	260	261	262	263
270	270	271	272	273
280	280	281	282	283

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING HORIZONTAL AND VERTICAL CONTROL

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_

DRAWN BY SAM  
CHECKED BY RJA

PLOT DATE = 8/12/05  
FILE NAME = 28-50-M  
PLOT SCALE = 1"=40'  
REFERENCE = REF