

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

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

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

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

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

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

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

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

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

Chain OUTLOOKDR contains:
2117 CUR 200 CUR 210 7

Beginning chain OUTLOOKDR description

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

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

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING HORIZONTAL AND VERTICAL CONTROL

REVISIONS	
NAME	DATE

SCALE: VERT. _____
HORIZ. _____
DATE _____
DRAWN BY: SAM
CHECKED BY: RJA