

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	1-3-K	ROCK ISLAND	476	35
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

# HORIZONTAL AND VERTICAL CONTROL

Beginning chain 52DR-DITC description

Point 448 X 398,679.6300 Y 1,749,620.8240 Sta 43+94.880  
 Course from 448 to PC DR.DIT1 S 8° 32' 01.367" W Dist 180.6087

Curve Data

Curve DR.DIT1  
 P.I. Station = 46+33.237 X 398,644.2600 Y 1,749,385.1060  
 Delta = 26° 00' 48.752" (RT)  
 Degree = 22° 55' 05.922"  
 Tangent = 57.7482  
 Length = 113.5055  
 Radius = 250.0000  
 External = 6.5830  
 Long Chord = 112.5331  
 Mid. Ord. = 6.4141  
 P.C. Station = 45+75.489 X 398,652.8292 Y 1,749,442.2148  
 P.T. Station = 46+88.994 X 398,611.5119 Y 1,749,337.5412  
 C.C. = 398,405.5970 Y 1,749,479.3123  
 Back = S 8° 32' 01.019" W  
 Ahead = S 34° 32' 49.771" W  
 Chord Bear = S 21° 32' 25.395" W

Course from PT DR.DIT1 to PC DR.DITCH S 34° 32' 49.771" W Dist 311.0006

Curve Data

Curve DR.DITCH  
 P.I. Station = 50+80.949 X 398,389.2400 Y 1,749,014.7040  
 Delta = 35° 53' 08.492" (LT)  
 Degree = 22° 55' 05.922"  
 Tangent = 80.9543  
 Length = 156.5809  
 Radius = 250.0000  
 External = 12.7805  
 Long Chord = 154.0341  
 Mid. Ord. = 12.1589  
 P.C. Station = 49+99.995 X 398,435.1483 Y 1,749,081.3825  
 P.T. Station = 51+56.576 X 398,391.1305 Y 1,748,933.7718  
 C.C. = 398,641.0624 Y 1,748,939.6101  
 Back = S 34° 32' 51.094" W  
 Ahead = S 1° 20' 17.398" E  
 Chord Bear = S 16° 36' 16.848" W

Course from PT DR.DITCH to 452 S 1° 20' 17.398" E Dist 671.1028

Point 452 X 398,406.8030 Y 1,748,262.8520 Sta 58+27.678

Course from 452 to 453 S 2° 24' 25.216" W Dist 814.7809

Point 453 X 398,372.5840 Y 1,747,448.7900 Sta 66+42.459

Course from 453 to 454 S 0° 46' 25.840" W Dist 626.4011

Point 454 X 398,364.1240 Y 1,746,822.4460 Sta 72+68.860

Ending chain 52DR-DITC description

Beginning chain 52ND\_AVE description

Point 352 X 396,081.4920 Y 1,748,606.4870 Sta 1129+48.590

Course from 352 to 354 N 69° 50' 18.357" E Dist 1,845.4916

Point 354 X 397,813.9000 Y 1,749,242.5700 Sta 1147+94.082

Course from 354 to PC 52AVE1 N 71° 33' 54.189" W Dist 0.0032

Curve Data

Curve 52AVE1  
 P.I. Station = 1153+04.574 X 398,293.1056 Y 1,749,418.5209  
 Delta = 69° 15' 01.552" (RT)  
 Degree = 7° 45' 00.014"  
 Tangent = 510.4893  
 Length = 893.5535  
 Radius = 739.3000  
 External = 159.1229  
 Long Chord = 840.1493  
 Mid. Ord. = 130.9401  
 P.C. Station = 1147+94.085 X 397,813.8970 Y 1,749,242.5710  
 P.T. Station = 1156+87.638 X 398,627.4190 Y 1,749,032.7310  
 C.C. = 398,068.7109 Y 1,748,548.5722  
 Back = N 69° 50' 18.235" E  
 Ahead = S 40° 54' 40.213" E  
 Chord Bear = S 75° 32' 10.989" E

Course from PT 52AVE1 to PC 52AVE2-1-1-1 S 40° 54' 40.280" E Dist 558.4646

Curve Data

Curve 52AVE2-1-1-1  
 P.I. Station = 1168+91.670 X 399,415.9253 Y 1,748,122.8129  
 Delta = 48° 31' 17.274" (LT)  
 Degree = 4° 00' 00.045"  
 Tangent = 645.5674  
 Length = 1,213.0328  
 Radius = 1,432.3900  
 External = 138.7556  
 Long Chord = 1,177.1084  
 Mid. Ord. = 126.5014  
 P.C. Station = 1162+46.103 X 398,993.1510 Y 1,748,610.6850  
 P.T. Station = 1174+59.136 X 400,061.4610 Y 1,748,116.4200  
 C.C. = 400,075.6455 Y 1,749,548.7398  
 Back = S 40° 54' 40.124" E  
 Ahead = S 89° 25' 57.397" E  
 Chord Bear = S 65° 10' 18.761" E

Course from PT 52AVE2-1-1-1 to 2000 S 89° 25' 57.520" E Dist 0.0044

Equation: Sta 1174+59.140 (BK) = Sta 210+82.690 (AH)  
 End Region 1  
 Begin Region 2

Point 2000 X 400,061.4654 Y 1,748,116.4200 Sta 210+82.690

Course from 2000 to 86 S 89° 25' 57.520" E Dist 845.2760

Point 86 X 400,906.7000 Y 1,748,108.0500 Sta 219+27.966

Ending chain 52ND\_AVE description