

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	I-3-K	ROCK ISLAND	476	33
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

HORIZONTAL AND VERTICAL CONTROL

Beginning chain 44TH-CON description

Point 510 X 397,433.9150 Y 1,748,802.9720 Sta 0+00.000
 Course from 510 to 513 N 84° 34' 39.401" E Dist 179.2220
 Point 513 X 397,612.3350 Y 1,748,819.9080 Sta 1+79.222

Curve Data

Curve 44ST-CON-1
 P.I. Station = 2+29.133 X 397,662.0231 Y 1,748,824.6243
 Delta = 4° 58' 13.073" (RT)
 Degree = 4° 58' 56.070"
 Tangent = 49.9114
 Length = 99.7603
 Radius = 1,150.0000
 External = 1.0826
 Long Chord = 99.7290
 Mid. Ord. = 1.0816
 P.C. Station = 1+79.222 X 397,612.3350 Y 1,748,819.9080
 P.T. Station = 2+78.982 X 397,711.9330 Y 1,748,825.0180
 C.C. = 397,721.0033 Y 1,747,675.0538
 Back = N 84° 34' 40.060" E
 Ahead = N 89° 32' 53.134" E
 Chord Bear = N 87° 03' 46.597" E

Point 514 X 397,711.9330 Y 1,748,825.0180 Sta 2+78.982
 Course from 514 to 512 N 89° 32' 52.976" E Dist 339.2516
 Point 512 X 398,051.1740 Y 1,748,827.6940 Sta 6+18.234

Ending chain 44TH-CON description

Beginning chain 44TH-ST description

Point 358 X 397,292.2230 Y 1,748,465.0310 Sta 13+39.540
 Course from 358 to PC 44TH-ST N 26° 22' 59.186" E Dist 215.0503

Curve Data

Curve 44TH-ST
 P.I. Station = 17+69.636 X 397,483.3450 Y 1,748,850.3300
 Delta = 46° 32' 39.622" (LT)
 Degree = 11° 27' 32.961"
 Tangent = 215.0462
 Length = 406.1760
 Radius = 500.0000
 External = 44.2838
 Long Chord = 395.0993
 Mid. Ord. = 40.6808
 P.C. Station = 15+54.590 X 397,387.7851 Y 1,748,657.6822
 P.T. Station = 19+60.766 X 397,409.2261 Y 1,749,052.1994
 C.C. = 396,939.8632 Y 1,748,879.8668
 Back = N 26° 22' 58.746" E
 Ahead = N 20° 09' 40.876" W
 Chord Bear = N 3° 06' 38.935" E

Course from PT 44TH-ST to 353 N 20° 09' 40.057" W Dist 39.2289
 Point 353 X 397,395.7054 Y 1,749,089.0246 Sta 19+99.995

Ending chain 44TH-ST description

Beginning chain 52-RAMP1 description

Point 260 X 398,551.2676 Y 1,749,108.6643 Sta 0+00.000
 Course from 260 to PC 52-RAMP1 S 10° 44' 49.000" W Dist 378.8855

Curve Data

Curve 52-RAMP1
 P.I. Station = 5+18.310 X 398,454.6175 Y 1,748,599.4453
 Delta = 11° 07' 08.294" (LT)
 Degree = 4° 00' 00.045"
 Tangent = 139.4245
 Length = 277.9734
 Radius = 1,432.3900
 External = 6.7696
 Long Chord = 277.5374
 Mid. Ord. = 6.7377
 P.C. Station = 3+78.885 X 398,480.6162 Y 1,748,736.4243
 P.T. Station = 6+56.859 X 398,455.5228 Y 1,748,460.0237
 C.C. = 399,887.8826 Y 1,748,469.3242
 Back = S 10° 44' 49.000" W
 Ahead = S 0° 22' 19.294" E
 Chord Bear = S 5° 11' 14.853" W

Course from PT 52-RAMP1 to 262 S 0° 22' 19.294" E Dist 1,486.4500
 Point 262 X 398,465.1744 Y 1,746,973.6050 Sta 21+43.309

Ending chain 52-RAMP1 description

Beginning chain 52-RAMP2 description

Curve Data

Curve 52-RAMP2-1
 P.I. Station = 3+38.830 X 399,725.7327 Y 1,749,777.4334
 Delta = 19° 17' 53.350" (LT)
 Degree = 2° 52' 29.983"
 Tangent = 338.8299
 Length = 671.2412
 Radius = 1,992.9000
 External = 28.5985
 Long Chord = 668.0728
 Mid. Ord. = 28.1939
 P.C. Station = 0+00.000 X 400,061.5390 Y 1,749,822.5980
 P.T. Station = 6+71.241 X 399,423.7210 Y 1,749,623.8280
 C.C. = 400,327.1840 Y 1,747,847.4820
 Back = S 82° 20' 23.715" W
 Ahead = S 63° 02' 30.364" W
 Chord Bear = S 72° 41' 27.039" W

Course from PT 52-RAMP2-1 to PC 52-RAMP2-2 S 63° 02' 30.035" W Dist 370.0802

Curve Data

Curve 52-RAMP2-2
 P.I. Station = 12+58.681 X 398,900.1149 Y 1,749,357.5161
 Delta = 17° 15' 25.773" (LT)
 Degree = 4° 00' 00.045"
 Tangent = 217.3595
 Length = 431.4276
 Radius = 1,432.3900
 External = 16.3979
 Long Chord = 429.7987
 Mid. Ord. = 16.2123
 P.C. Station = 10+41.321 X 399,093.8550 Y 1,749,456.0550
 P.T. Station = 14+72.749 X 398,744.3290 Y 1,749,205.9380
 C.C. = 399,743.2223 Y 1,748,179.3157
 Back = S 63° 02' 29.337" W
 Ahead = S 45° 47' 03.564" W
 Chord Bear = S 54° 24' 46.451" W

Course from PT 52-RAMP2-2 to 270 S 45° 47' 03.443" W Dist 203.3499
 Point 270 X 398,598.5842 Y 1,749,064.1296 Sta 16+76.099

Ending chain 52-RAMP2 description