

# HORIZONTAL AND VERTICAL CONTROL

CONTRACT NO.			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
	06-00233-00-B1	ROCK ISLAND	75
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

Beginning chain RIBIKE2 description

Point 504 N 1,747,241.1531 E 397,107.4496 Sta 500+00.00  
 Course from 504 to 510 S 89° 01' 00.75" E Dist 1,030.7571  
 Point 510 N 1,747,223.4675 E 398,138.0550 Sta 510+30.76  
 Course from 510 to 511 S 89° 01' 00.75" E Dist 27.0471  
 Point 511 N 1,747,223.0034 E 398,165.0981 Sta 510+57.80

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Curve Data

Curve 511  
 P.I. Station 510+87.75 N 1,747,222.4895 E  
 Delta = 30° 27' 42.74" (RT)  
 Degree = 52° 05' 13.46"  
 Tangent = 29.9501  
 Length = 58.4826  
 Radius = 110.0000  
 External = 4.0044  
 Long Chord = 57.7962  
 Mid. Ord. = 3.8638  
 P.C. Station 510+57.80 N 1,747,223.0034 E  
 P.T. Station 511+16.29 N 1,747,206.8652 E  
 C.C. N 1,747,113.0196 E  
 398,163.2107  
 Back = S 89° 01' 00.75" E  
 Ahead = S 58° 33' 18.02" E  
 Chord Bear = S 73° 47' 09.38" E

Point 512 N 1,747,206.8652 E 398,220.5955 Sta 511+16.29

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Curve Data

Curve 512  
 P.I. Station 511+47.34 N 1,747,190.5941 E  
 Delta = 18° 33' 47.17" (LT)  
 Degree = 30° 09' 20.42"  
 Tangent = 31.0509  
 Length = 61.5576  
 Radius = 190.0000  
 External = 2.5205  
 Long Chord = 61.2887  
 Mid. Ord. = 2.4875  
 P.C. Station 511+16.29 N 1,747,206.8652 E  
 P.T. Station 511+77.84 N 1,747,183.5886 E  
 C.C. N 1,747,368.6899 E  
 398,320.1583  
 Back = S 58° 23' 53.02" E  
 Ahead = S 76° 57' 40.19" E  
 Chord Bear = S 67° 40' 46.60" E

Point 513 N 1,747,183.5886 E 398,277.2921 Sta 511+77.84

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Curve Data

Curve 513  
 P.I. Station 511+82.95 N 1,747,182.4358 E  
 Delta = 30° 04' 51.60" (LT)  
 Degree = 30° 09' 20.42"  
 Tangent = 5.1097  
 Length = 10.2170  
 Radius = 190.0000  
 External = 0.0687  
 Long Chord = 10.2158  
 Mid. Ord. = 0.0687  
 P.C. Station 511+77.84 N 1,747,183.5886 E  
 P.T. Station 511+88.06 N 1,747,181.5522 E  
 C.C. N 1,747,368.6897 E  
 398,320.1591  
 Back = S 76° 57' 39.30" E  
 Ahead = S 80° 02' 30.89" E  
 Chord Bear = S 78° 30' 05.09" E

Point 514 N 1,747,181.5522 E 398,287.3029 Sta 511+88.06

Course from 514 to 515 S 80° 02' 30.89" E Dist 81.4924

Point 515 N 1,747,167.4599 E 398,367.5675 Sta 512+69.55

Point 516 N 1,747,167.4599 E 398,367.5675 Sta 512+69.55

Ending chain RIBIKE2 description

Beginning chain 44TH description

Point 550 N 1,747,059.2879 E 397,090.5476 Sta 100+00.00  
 Course from 550 to 551 N 1° 02' 10.48" E Dist 147.0436  
 Point 551 N 1,747,206.3075 E 397,093.2069 Sta 101+47.04

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Curve Data

Curve 551  
 P.I. Station 102+58.44 N 1,747,317.6846 E 397,095.2214  
 Delta = 48° 02' 01.36" (RT)  
 Degree = 22° 55' 05.92"  
 Tangent = 111.3953  
 Length = 209.5866  
 Radius = 250.0000  
 External = 23.6949  
 Long Chord = 203.5027  
 Mid. Ord. = 21.6436  
 P.C. Station 101+47.04 N 1,747,206.3075 E 397,093.2069  
 P.T. Station 103+56.63 N 1,747,390.6638 E 397,179.3817  
 C.C. N 1,747,201.7862 E 397,343.1660  
 Back = N 1° 02' 10.48" E  
 Ahead = N 49° 04' 11.84" E  
 Chord Bear = N 25° 03' 11.16" E

Point 552 N 1,747,390.6638 E 397,179.3817 Sta 103+56.63

Ending chain 44TH description

Beginning chain MOLBIKE description

Point 500 N 1,747,242.2420 E 398,445.7515 Sta 0+00.00  
 Course from 500 to PC MOL-1 N 0° 13' 15.57" W Dist 40.0000

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Curve Data

Curve MOL-1  
 P.I. Station 2+14.13 N 1,747,108.1176 E 398,446.3691  
 Delta = 239° 44' 14.18" (LT)  
 Degree = 57° 17' 44.81"  
 Tangent = 174.1258  
 Length = 418.4205  
 Radius = 100.0000  
 External = 300.7979  
 Long Chord = 173.4339  
 Mid. Ord. = 149.8013  
 P.C. Station 0+40.00 N 1,747,282.2417 E 398,445.5972  
 P.T. Station 4+58.42 N 1,747,195.2035 E 398,295.5850  
 C.C. N 1,747,281.7984 E 398,345.5982  
 Back = N 0° 15' 14.31" W  
 Ahead = S 59° 59' 28.49" E  
 Chord Bear = S 59° 52' 38.60" W

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Curve Data

Curve MOL-2  
 Feature: DEFAULT CURVE  
 P.I. Station 4+97.73 N 1,747,174.2577 E 398,328.8496  
 Delta = 22° 14' 21.87" (LT)  
 Degree = 28° 38' 52.40"  
 Tangent = 39.3099  
 Length = 77.6302  
 Radius = 200.0000  
 External = 3.8266  
 Long Chord = 77.1438  
 Mid. Ord. = 3.7547  
 P.C. Station 4+58.42 N 1,747,195.2035 E 398,295.5850  
 P.T. Station 5+36.05 N 1,747,167.4599 E 398,367.5673  
 C.C. N 1,747,364.4468 E 398,402.1528  
 Back = S 57° 48' 09.02" E  
 Ahead = S 80° 02' 30.89" E  
 Chord Bear = S 68° 55' 19.96" E

Course from PT MOL-2 to PC MOL-3 S 80° 02' 30.89" E Dist 94.7524

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Curve Data

Curve MOL-3  
 P.I. Station 7+57.66 N 1,747,129.1369 E 398,585.8415  
 Delta = 28° 28' 24.45" (LT)  
 Degree = 11° 27' 32.96"  
 Tangent = 126.8606  
 Length = 248.4778  
 Radius = 500.0000  
 External = 15.8426  
 Long Chord = 245.9288  
 Mid. Ord. = 15.3561  
 P.C. Station 6+30.80 N 1,747,151.0746 E 398,460.8922  
 P.T. Station 8+79.28 N 1,747,169.4226 E 398,706.1356  
 C.C. N 1,747,643.5419 E 398,547.3560  
 Back = S 80° 02' 30.89" E  
 Ahead = N 71° 29' 04.65" E  
 Chord Bear = N 85° 43' 16.88" E

Course from PT MOL-3 to PC MOL-4 N 71° 29' 16.10" E Dist 130.7680

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Curve Data

Curve MOL-4  
 P.I. Station 10+22.67 N 1,747,214.8114 E 398,842.1467  
 Delta = 13° 05' 12.79" (RT)  
 Degree = 52° 05' 13.46"  
 Tangent = 12.6174  
 Length = 25.1250  
 Radius = 110.0000  
 External = 0.7213  
 Long Chord = 25.0704  
 Mid. Ord. = 0.7166  
 P.C. Station 10+10.05 N 1,747,210.9423 E 398,830.1371  
 P.T. Station 10+35.17 N 1,747,215.8607 E 398,854.7204  
 C.C. N 1,747,106.2417 E 398,863.8682  
 Back = N 72° 08' 33.92" E  
 Ahead = N 85° 13' 46.71" E  
 Chord Bear = N 78° 41' 10.31" E

Course from PT MOL-4 to PC MOL-5 N 85° 52' 56.69" E Dist 77.5975

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<h2 style="margin: 0;">HORIZONTAL AND VERTICAL CONTROL</h2> <p style="margin: 5px 0 0 0;">SCALE: NTS DATE 3/31/09</p> <p style="margin: 0 0 0 0;">DRAWN BY PAR CHECKED BY BAJ</p>

PLOT DATE \* DATE \*  
 PLOT SCALE \* SCALE \*  
 PLOT USER \* USER \*