

# EXISTING HORIZONTAL & VERTICAL CONTROL

## IL-5

Chain IL5 contains:  
A082303 CUR 1310

Beginning chain IL5 description  
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Point A082303 N 1,773,483.5698 E 2,242,476.1723 Sta 769+94.09

Course from A082303 to PC 1310 91° 17' 07.42" Dist 5,100.6754'

### Curve Data \*\*\*\*\*

Curve 1310  
P.I. Station 826+64.25 N 1,773,356.3742 E 2,248,144.9036  
Delta = 16° 59' 26.36" (LT)  
Degree = 1° 30' 10.05"  
Tangent = 569.4828'  
Length = 1,130.6068'  
Radius = 3,812.6249'  
External = 42.2965'  
Long Chord = 1,126.4688'  
Mid. Ord. = 41.8325'  
P.C. Station 820+94.77 N 1,773,369.1491 E 2,247,575.5641  
P.T. Station 832+25.38 N 1,773,510.5269 E 2,248,693.1258  
C.C. N 1,777,180.8146 E 2,247,661.0907

Ending chain IL5 description  
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## I-74

Chain D2\_I74 contains:

A0841129 CUR 08403370 CUR 08403380 CUR 084031200 CUR 084031210 CUR 084031220 C-  
UR 084031240 CUR 084031270 CUR 084031300 CUR 08403300 CUR 08403310 CUR 08403320-  
CUR 08403330 CUR 08403340 CUR 08403350 CUR 08403360 CUR 084031260 CUR 05202300-  
CUR 02906310 CUR 02906320 CUR 02906330 CUR 02906340 CUR 00298200 CUR 00298210 -  
CUR 00298220 I7437

Beginning chain D2\_I74 description  
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Point A0841129 N 1,764,364.6932 E 2,202,081.3645 Sta 33+54.00

Course from A0841129 to PC 08403370 142° 19' 14.07" Dist 890.4689'

### Curve Data \*\*\*\*\*

Curve 08403370  
P.I. Station 49+28.54 N 1,763,118.5344 E 2,203,043.7908  
Delta = 39° 24' 02.56" (RT)  
Degree = 2° 59' 56.38"  
Tangent = 684.0711'  
Length = 1,313.7971'  
Radius = 1,910.4993'  
External = 118.7767'  
Long Chord = 1,288.0628'  
Mid. Ord. = 111.8245'  
P.C. Station 42+44.47 N 1,763,659.9378 E 2,202,625.6572  
P.T. Station 55+58.27 N 1,762,434.7720 E 2,203,023.2430  
C.C. N 1,762,492.1588 E 2,201,113.6058

Course from PT 08403370 to PC 08403380 181° 43' 16.63" Dist 899.4728'

### Curve Data \*\*\*\*\*

Curve 08403380  
P.I. Station 68+45.23 N 1,761,148.3897 E 2,202,984.5857  
Delta = 19° 12' 59.18" (LT)  
Degree = 2° 30' 11.20"  
Tangent = 387.4901'  
Length = 767.7020'  
Radius = 2,288.9819'  
External = 32.5664'  
Long Chord = 764.1089'  
Mid. Ord. = 32.1096'  
P.C. Station 64+57.74 N 1,761,535.7050 E 2,202,996.2250  
P.T. Station 72+25.45 N 1,760,778.8240 E 2,203,101.0750  
C.C. N 1,761,466.9495 E 2,205,284.1740

Course from PT 08403380 to PC 084031200 162° 30' 17.44" Dist 613.2203'

### Curve Data \*\*\*\*\*

Curve 084031200  
P.I. Station 81+35.86 N 1,759,910.5268 E 2,203,374.7673  
Delta = 14° 10' 09.35" (RT)  
Degree = 2° 23' 45.94"  
Tangent = 297.1903'  
Length = 591.3482'  
Radius = 2,391.2152'  
External = 18.3973'  
Long Chord = 589.8425'  
Mid. Ord. = 18.2568'  
P.C. Station 78+38.67 N 1,760,193.9698 E 2,203,285.4245  
P.T. Station 84+30.01 N 1,759,613.8371 E 2,203,392.0089  
C.C. N 1,759,475.1104 E 2,201,004.8212

Course from PT 084031200 to PC 084031210 176° 40' 26.79" Dist 482.5417'

### Curve Data \*\*\*\*\*

Curve 084031210  
P.I. Station 96+99.91 N 1,758,346.0834 E 2,203,465.6819  
Delta = 23° 14' 11.94" (LT)  
Degree = 1° 29' 46.27"  
Tangent = 787.3508'  
Length = 1,553.0589'  
Radius = 3,829.4557'  
External = 80.1034'  
Long Chord = 1,542.4374'  
Mid. Ord. = 78.4621'  
P.C. Station 89+12.56 N 1,759,132.1081 E 2,203,420.0036  
P.T. Station 104+65.61 N 1,757,641.8400 E 2,203,817.7650  
C.C. N 1,759,354.2746 E 2,207,243.0093

### Curve Data \*\*\*\*\*

Curve 084031220  
P.I. Station 117+18.97 N 1,756,520.7776 E 2,204,378.2348  
Delta = 12° 34' 03.93" (LT)  
Degree = 0° 30' 12.18"  
Tangent = 1,253.3584'  
Length = 2,496.6580'  
Radius = 11,382.1389'  
External = 68.7996'  
Long Chord = 2,491.6558'  
Mid. Ord. = 68.3863'  
P.C. Station 104+65.61 N 1,757,641.8400 E 2,203,817.7650  
P.T. Station 129+62.27 N 1,755,548.5315 E 2,205,169.2118  
C.C. N 1,762,731.6411 E 2,213,998.4825

Course from PT 084031220 to PC 084031240 140° 52' 10.93" Dist 1,338.8187'

### Curve Data \*\*\*\*\*

Curve 084031240  
P.I. Station 158+66.69 N 1,753,295.5367 E 2,207,002.1501  
Delta = 44° 33' 16.76" (RT)  
Degree = 1° 29' 57.29"  
Tangent = 1,565.6001'  
Length = 2,971.8000'  
Radius = 3,821.6342'  
External = 308.2558'  
Long Chord = 2,897.4868'  
Mid. Ord. = 285.2476'  
P.C. Station 143+01.09 N 1,754,509.9927 E 2,206,014.1217  
P.T. Station 172+72.89 N 1,751,736.9476 E 2,206,854.1515  
C.C. N 1,752,098.2125 E 2,203,049.6312

Course from PT 084031240 to PC 084031270 185° 25' 27.69" Dist 2,062.6535'

### Curve Data \*\*\*\*\*

Curve 084031270  
P.I. Station 203+01.70 N 1,748,721.6994 E 2,206,567.8333  
Delta = 4° 58' 25.75" (LT)  
Degree = 0° 15' 27.23"  
Tangent = 966.1582'  
Length = 1,931.1027'  
Radius = 22,245.2911'  
External = 20.9712'  
Long Chord = 1,930.4964'  
Mid. Ord. = 20.9515'  
P.C. Station 193+35.54 N 1,749,683.5309 E 2,206,659.1657  
P.T. Station 212+66.65 N 1,747,755.5711 E 2,206,560.2361  
C.C. N 1,747,580.6492 E 2,228,804.8394

Course from PT 084031270 to PC 084031300 180° 27' 01.94" Dist 2,546.1529'

### Curve Data \*\*\*\*\*

Curve 084031300  
P.I. Station 249+69.44 N 1,745,164.7920 E 2,207,695.9911  
Delta = 22° 52' 37.93" (RT)  
Degree = 1° 00' 08.29"  
Tangent = 1,156.6405'  
Length = 2,282.4658'  
Radius = 5,716.4179'  
External = 115.8416'  
Long Chord = 2,267.3341'  
Mid. Ord. = 113.5407'  
P.C. Station 238+12.80 N 1,745,209.4969 E 2,206,540.2149  
P.T. Station 260+95.27 N 1,744,674.2870 E 2,208,743.4747  
C.C. N 1,739,497.3504 E 2,206,319.2715

Course from PT 084031300 to PC 08403300 115° 05' 32.19" Dist 1,073.2690'

### Curve Data \*\*\*\*\*

Curve 08403300  
P.I. Station 283+19.47 N 1,743,731.0517 E 2,210,757.7732  
Delta = 26° 18' 08.66" (LT)  
Degree = 1° 09' 47.34"  
Tangent = 1,150.9368'  
Length = 2,261.3063'  
Radius = 4,925.9110'  
External = 132.6713'  
Long Chord = 2,241.5024'  
Mid. Ord. = 129.1917'  
P.C. Station 271+68.53 N 1,744,219.1379 E 2,209,715.4550  
P.T. Station 294+29.84 N 1,743,755.3585 E 2,211,908.4533  
C.C. N 1,748,680.1709 E 2,211,804.4222

Course from PT 08403300 to PC 08403310 88° 47' 23.54" Dist 1,844.8250'

FILE NAME =	USER NAME = renkesw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING HORIZONTAL &amp; VERTICAL CONTROL</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwwork\renkesw\d0292974\02-	ht-ATB.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	**	151	22
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								
	PLOT DATE = Mon Apr 30 14:17:32 2012	DATE -	REVISED -		CONTRACT NO. 64H77								