

# EXISTING HORIZONTAL & VERTICAL CONTROL

## I-80

### Curve Data

Curve AMT370  
 P.I. Station 1779+78.00 N 1,726,029.5794 E 2,367,121.6360  
 Delta = 13° 20' 56.37" (LT)  
 Degree = 1° 00' 18.48"  
 Tangent = 667.0604'  
 Length = 1,328.0805'  
 Radius = 5,700.3110'  
 External = 38.8976'  
 Long Chord = 1,325.0788'  
 Mid. Ord. = 38.6339'  
 P.C. Station 1773+10.94 N 1,726,362.7993 E 2,366,543.7657  
 P.T. Station 1786+39.02 N 1,725,838.7822 E 2,367,760.8277  
 C.C. N 1,731,300.9434 E 2,369,391.2696

Course from PT AMT370 to AMT50 106° 37' 12.86" Dist 16,534.8519'

Point AMT50 N 1,721,109.3707 E 2,383,604.8800 Sta 1951+73.88

Ending chain D2\_I-80 description

## I-88

Chain D2\_I-88 contains:

CUR 100390 CUR 084031320 CUR 06407200 CUR 06407210 CUR 06407220 CUR 06407230 C-  
 UR 06407240 CUR 06407250 CUR 06407260 CUR 06407270 CUR 06407280 CUR 06407290 C-  
 R 06407300 CUR 06407310 CUR 06407320 CUR WES200 CUR WES210 CUR WES220 CUR WES23-  
 0 CUR WES240 CUR WES250 CUR WES260 WES3021

Beginning chain D2\_I-88 description

### Curve Data

Curve 100390  
 P.I. Station 1+70.59 N 1,773,556.7042 E 2,248,857.3490  
 Delta = 5° 07' 25.90" (LT)  
 Degree = 1° 30' 10.05"  
 Tangent = 170.5919'  
 Length = 340.9563'  
 Radius = 3,812.6249'  
 External = 3.8146'  
 Long Chord = 340.8427'  
 Mid. Ord. = 3.8108'  
 P.C. Station 0+00.00 N 1,773,510.5269 E 2,248,693.1258  
 P.T. Station 3+40.96 N 1,773,617.3636 E 2,249,016.7918  
 C.C. N 1,777,180.8146 E 2,247,661.0907

Course from PT 100390 to PC 084031320 69° 10' 15.16" Dist 368.8454'

### Curve Data

Curve 084031320  
 P.I. Station 15+74.56 N 1,774,056.0123 E 2,250,169.7769  
 Delta = 33° 35' 53.29" (RT)  
 Degree = 2° 00' 00.98"  
 Tangent = 864.7620'  
 Length = 1,679.6778'  
 Radius = 2,864.3983'  
 External = 127.6898'  
 Long Chord = 1,655.7152'  
 Mid. Ord. = 122.2405'  
 P.C. Station 7+09.80 N 1,773,748.5184 E 2,249,361.5314  
 P.T. Station 23+89.48 N 1,773,864.8817 E 2,251,013.1525  
 C.C. N 1,771,071.3227 E 2,250,380.0601

Course from PT 084031320 to PC 06407200 102° 46' 08.45" Dist 4,855.2444'

### Curve Data

Curve 06407200  
 P.I. Station 84+05.22 N 1,772,535.2761 E 2,256,880.1182  
 Delta = 33° 46' 19.02" (LT)  
 Degree = 1° 29' 55.35"  
 Tangent = 1,160.4964'  
 Length = 2,253.4019'  
 Radius = 3,823.0075'  
 External = 172.2570'  
 Long Chord = 2,220.9225'  
 Mid. Ord. = 164.8301'  
 P.C. Station 72+44.72 N 1,772,791.7703 E 2,255,748.3220  
 P.T. Station 94+98.13 N 1,772,951.2164 E 2,257,963.5136  
 C.C. N 1,776,520.2311 E 2,256,593.2873

Course from PT 06407200 to PC 06407210 68° 59' 49.43" Dist 5,998.1494'

### Curve Data

Curve 06407210  
 P.I. Station 164+20.82 N 1,775,432.4184 E 2,264,426.2756  
 Delta = 18° 19' 48.64" (RT)  
 Degree = 0° 59' 59.47"  
 Tangent = 924.5420'  
 Length = 1,833.2858'  
 Radius = 5,730.4156'  
 External = 74.1034'  
 Long Chord = 1,825.4776'  
 Mid. Ord. = 73.1574'  
 P.C. Station 154+96.28 N 1,775,101.0480 E 2,263,563.1583  
 P.T. Station 173+29.56 N 1,775,475.5312 E 2,265,349.8118  
 C.C. N 1,769,751.3494 E 2,265,617.0299

Course from PT 06407210 to PC 06407220 87° 19' 38.07" Dist 2,570.3260'

### Curve Data

Curve 06407220  
 P.I. Station 229+10.64 N 1,775,735.7855 E 2,270,924.8185  
 Delta = 43° 00' 48.33" (LT)  
 Degree = 0° 44' 59.58"  
 Tangent = 3,010.7521'  
 Length = 5,736.0070'  
 Radius = 7,640.6142'  
 External = 571.7919'  
 Long Chord = 5,602.2547'  
 Mid. Ord. = 531.9807'  
 P.C. Station 198+99.89 N 1,775,595.3895 E 2,267,917.3416  
 P.T. Station 256+35.89 N 1,777,890.0518 E 2,273,028.0933  
 C.C. N 1,783,227.6919 E 2,267,561.0481

Course from PT 06407220 to PC 06407230 44° 18' 49.73" Dist 21,480.2857'

### Curve Data

Curve 06407230  
 P.I. Station 500+07.24 N 1,795,328.3438 E 2,290,053.6204  
 Delta = 53° 26' 24.98" (LT)  
 Degree = 0° 59' 51.46"  
 Tangent = 2,891.0622'  
 Length = 5,356.7403'  
 Radius = 5,743.2082'  
 External = 686.6193'  
 Long Chord = 5,164.6712'  
 Mid. Ord. = 613.2976'  
 P.C. Station 471+16.18 N 1,793,259.7185 E 2,288,033.9595  
 P.T. Station 524+72.92 N 1,798,182.8071 E 2,289,595.0575  
 C.C. N 1,797,271.8538 E 2,283,924.5544

Course from PT 06407230 to PC 06407240 350° 52' 24.75" Dist 4,686.1714'

### Curve Data

Curve 06407240  
 P.I. Station 598+84.48 N 1,805,500.5420 E 2,288,419.4801  
 Delta = 61° 25' 47.85" (RT)  
 Degree = 1° 14' 56.39"  
 Tangent = 2,725.3888'  
 Length = 4,918.3456'  
 Radius = 4,587.3455'  
 External = 748.5221'  
 Long Chord = 4,686.1358'  
 Mid. Ord. = 643.5185'  
 P.C. Station 571+59.09 N 1,802,809.6548 E 2,288,851.7650  
 P.T. Station 620+77.44 N 1,807,167.0591 E 2,290,575.9738  
 C.C. N 1,803,537.2720 E 2,293,381.0377

Course from PT 06407240 to PC 06407250 52° 18' 12.61" Dist 8,123.9839'

### Curve Data

Curve 06407250  
 P.I. Station 712+31.30 N 1,812,764.4524 E 2,297,819.0691  
 Delta = 15° 27' 58.47" (LT)  
 Degree = 0° 45' 19.69"  
 Tangent = 1,029.8810'  
 Length = 2,047.2395'  
 Radius = 7,584.1428'  
 External = 69.6064'  
 Long Chord = 2,041.0296'  
 Mid. Ord. = 68.9734'  
 P.C. Station 702+01.42 N 1,812,134.7021 E 2,297,004.1646  
 P.T. Station 722+48.66 N 1,813,588.7090 E 2,298,436.5283  
 C.C. N 1,818,135.7378 E 2,292,366.6230

Course from PT 06407250 to PC 06407260 36° 50' 14.14" Dist 6,174.5630'

### Curve Data

Curve 06407260  
 P.I. Station 790+33.39 N 1,819,018.8141 E 2,302,504.2761  
 Delta = 12° 06' 46.48" (LT)  
 Degree = 0° 59' 46.67"  
 Tangent = 610.1709'  
 Length = 1,215.7932'  
 Radius = 5,750.8733'  
 External = 32.2791'  
 Long Chord = 1,213.5303'  
 Mid. Ord. = 32.0990'  
 P.C. Station 784+23.22 N 1,818,530.4689 E 2,302,138.4517  
 P.T. Station 796+39.02 N 1,819,573.0509 E 2,302,759.4820  
 C.C. N 1,821,978.3716 E 2,297,535.7883

Course from PT 06407260 to PC 06407270 24° 43' 27.66" Dist 5,371.6958'

### Curve Data

Curve 06407270  
 P.I. Station 862+67.38 N 1,825,593.7925 E 2,305,531.8142  
 Delta = 24° 43' 05.07" (RT)  
 Degree = 0° 59' 56.48"  
 Tangent = 1,256.6641'  
 Length = 2,474.2258'  
 Radius = 5,735.1834'  
 External = 136.0629'  
 Long Chord = 2,455.0832'  
 Mid. Ord. = 132.9097'  
 P.C. Station 850+10.71 N 1,824,452.3261 E 2,305,006.2105  
 P.T. Station 874+84.94 N 1,826,410.8903 E 2,306,486.5685  
 C.C. N 1,822,053.5677 E 2,310,215.6527

Course from PT 06407270 to PC 06407280 49° 26' 32.73" Dist 2,832.6123'

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:\pw\work\p\dtd\renkesw\d8292974\02-ht-ATB.dgn		DRAWN -	REVISED -					*	D2 SAFETY 2012-2	**	151	26
		CHECKED -	REVISED -		CONTRACT NO. 64H77							
		DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	