

# EXISTING HORIZONTAL & VERTICAL CONTROL

I-88

Curve Data  
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Curve 06407280  
 P.I. Station 917+18.40 N 1,829,163.5396 E 2,309,702.9563  
 Delta = 40° 14' 53.67" (RT)  
 Degree = 1° 29' 55.33"  
 Tangent = 1,400.8530'  
 Length = 2,685.5374'  
 Radius = 3,823.0231'  
 External = 248.5730'  
 Long Chord = 2,630.6605'  
 Mid. Ord. = 233.3975'  
 P.C. Station 903+17.55 N 1,828,252.6884 E 2,308,638.6541  
 P.T. Station 930+03.09 N 1,829,171.1027 E 2,311,103.7889  
 C.C. N 1,825,348.1353 E 2,311,124.4289

Course from PT 06407280 to PC 06407290 89° 41' 26.40" Dist 6,409.5995'

Curve Data  
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Curve 06407290  
 P.I. Station 1022+91.39 N 1,829,221.2490 E 2,320,391.9596  
 Delta = 41° 16' 59.45" (LT)  
 Degree = 0° 44' 59.16"  
 Tangent = 2,878.7066'  
 Length = 5,506.1462'  
 Radius = 7,641.8274'  
 External = 524.2290'  
 Long Chord = 5,387.8097'  
 Mid. Ord. = 490.5756'  
 P.C. Station 994+12.69 N 1,829,205.7073 E 2,317,513.2950  
 P.T. Station 1049+18.83 N 1,831,132.2166 E 2,322,544.9006  
 C.C. N 1,836,847.4233 E 2,317,472.0377

Course from PT 06407290 to PC 06407300 48° 24' 26.95" Dist 4,535.0898'

Curve Data  
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Curve 06407300  
 P.I. Station 1116+33.21 N 1,835,589.4094 E 2,327,566.4789  
 Delta = 41° 40' 16.10" (RT)  
 Degree = 1° 00' 02.06"  
 Tangent = 2,179.2841'  
 Length = 4,164.7259'  
 Radius = 5,726.2947'  
 External = 400.6727'  
 Long Chord = 4,073.5398'  
 Mid. Ord. = 374.4708'  
 P.C. Station 1094+53.92 N 1,834,142.7385 E 2,325,936.6254  
 P.T. Station 1136+18.65 N 1,835,586.4189 E 2,329,745.7609  
 C.C. N 1,829,860.1296 E 2,329,737.9031

Course from PT 06407300 to PC 06407310 90° 04' 43.04" Dist 2,372.3615'

Curve Data  
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Curve 06407310  
 P.I. Station 1169+01.71 N 1,835,581.9138 E 2,333,028.8224  
 Delta = 18° 00' 29.15" (LT)  
 Degree = 0° 59' 48.88"  
 Tangent = 910.7031'  
 Length = 1,806.3874'  
 Radius = 5,747.3239'  
 External = 71.7063'  
 Long Chord = 1,798.9614'  
 Mid. Ord. = 70.8226'  
 P.C. Station 1159+91.01 N 1,835,583.1635 E 2,332,118.1203  
 P.T. Station 1177+97.40 N 1,835,862.2702 E 2,333,895.2983  
 C.C. N 1,841,330.4820 E 2,332,126.0069

Course from PT 06407310 to PC 06407320 72° 04' 13.89" Dist 24,128.7077'

Curve Data  
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Curve 06407320  
 P.I. Station 1427+99.21 N 1,843,558.9818 E 2,357,682.9290  
 Delta = 17° 14' 25.42" (RT)  
 Degree = 0° 59' 41.35"  
 Tangent = 873.1071'  
 Length = 1,733.0188'  
 Radius = 5,759.4200'  
 External = 65.8040'  
 Long Chord = 1,726.4883'  
 Mid. Ord. = 65.0607'  
 P.C. Station 1419+26.11 N 1,843,290.1991 E 2,356,852.2233  
 P.T. Station 1436+59.12 N 1,843,569.4822 E 2,358,555.9729  
 C.C. N 1,837,810.4787 E 2,358,625.2384

Course from PT 06407320 to PC WES200 89° 18' 39.30" Dist 6,871.8076'

Curve Data  
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Curve WES200  
 P.I. Station 1518+89.72 N 1,843,668.4671 E 2,366,785.9763  
 Delta = 32° 57' 20.58" (LT)  
 Degree = 1° 14' 50.15"  
 Tangent = 1,358.7911'  
 Length = 2,642.2423'  
 Radius = 4,593.7200'  
 External = 196.7473'  
 Long Chord = 2,605.9695'  
 Mid. Ord. = 188.6667'  
 P.C. Station 1505+30.93 N 1,843,652.1257 E 2,365,427.2835  
 P.T. Station 1531+73.17 N 1,844,421.2953 E 2,367,917.1540  
 C.C. N 1,848,245.5135 E 2,365,372.0373

Course from PT WES200 to PC WES210 56° 21' 18.73" Dist 13,408.0222'

Curve Data  
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Curve WES210  
 P.I. Station 1679+76.51 N 1,852,622.9714 E 2,380,240.7535  
 Delta = 13° 57' 21.87" (LT)  
 Degree = 0° 30' 09.34"  
 Tangent = 1,395.3084'  
 Length = 2,776.8056'  
 Radius = 11,400.0000'  
 External = 85.0723'  
 Long Chord = 2,769.9461'  
 Mid. Ord. = 84.4421'  
 P.C. Station 1665+81.20 N 1,851,849.9111 E 2,379,079.1756  
 P.T. Station 1693+58.00 N 1,853,653.3587 E 2,381,181.5976  
 C.C. N 1,861,340.2777 E 2,372,763.0897

Course from PT WES210 to PC WES220 42° 23' 56.86" Dist 3,191.5270'

Curve Data  
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Curve WES220  
 P.I. Station 1742+33.21 N 1,857,253.5306 E 2,384,468.9058  
 Delta = 47° 35' 20.96" (RT)  
 Degree = 1° 30' 01.88"  
 Tangent = 1,683.6790'  
 Length = 3,171.5068'  
 Radius = 3,818.3900'  
 External = 354.7236'  
 Long Chord = 3,081.1253'  
 Mid. Ord. = 324.5713'  
 P.C. Station 1725+49.53 N 1,856,010.1916 E 2,383,333.6160  
 P.T. Station 1757+21.04 N 1,857,253.8750 E 2,386,152.5848  
 C.C. N 1,853,435.4850 E 2,386,153.3657

Course from PT WES220 to PC WES230 89° 59' 17.82" Dist 10,150.6262'

Curve Data  
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Curve WES230  
 P.I. Station 1866+56.94 N 1,857,256.1114 E 2,397,088.4875  
 Delta = 30° 35' 41.27" (RT)  
 Degree = 1° 59' 44.42"  
 Tangent = 785.2766'  
 Length = 1,533.0565'  
 Radius = 2,871.0000'  
 External = 105.4577'  
 Long Chord = 1,514.9076'  
 Mid. Ord. = 101.7213'  
 P.C. Station 1858+71.66 N 1,857,255.9508 E 2,396,303.2108  
 P.T. Station 1874+04.72 N 1,856,856.5727 E 2,397,764.5261  
 C.C. N 1,854,384.9509 E 2,396,303.7980

Course from PT WES230 to PC WES240 120° 34' 59.09" Dist 1,502.9465'

Curve Data  
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Curve WES240  
 P.I. Station 1895+04.40 N 1,855,788.2813 E 2,399,572.1263  
 Delta = 9° 06' 28.64" (LT)  
 Degree = 0° 45' 53.13"  
 Tangent = 596.7356'  
 Length = 1,190.9570'  
 Radius = 7,492.0001'  
 External = 23.7273'  
 Long Chord = 1,189.7034'  
 Mid. Ord. = 23.6524'  
 P.C. Station 1889+07.67 N 1,856,091.8927 E 2,399,058.4012  
 P.T. Station 1900+98.62 N 1,855,569.8180 E 2,400,127.4345  
 C.C. N 1,862,541.6979 E 2,402,870.2351

Course from PT WES240 to PC WES250 111° 28' 30.45" Dist 8,176.7509'

Curve Data  
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Curve WES250  
 P.I. Station 1993+83.83 N 1,852,170.5277 E 2,408,768.0349  
 Delta = 21° 53' 22.73" (LT)  
 Degree = 0° 59' 58.48"  
 Tangent = 1,108.4605'  
 Length = 2,189.8900'  
 Radius = 5,732.0000'  
 External = 106.1939'  
 Long Chord = 2,176.5962'  
 Mid. Ord. = 104.2623'  
 P.C. Station 1982+75.37 N 1,852,576.3320 E 2,407,736.5276  
 P.T. Station 2004+65.26 N 1,852,178.5471 E 2,409,876.4664  
 C.C. N 1,857,910.3971 E 2,409,834.9969

Course from PT WES250 to PC WES260 89° 35' 07.72" Dist 27,698.7183'

Curve Data  
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Curve WES260  
 P.I. Station 2294+21.52 N 1,852,388.0375 E 2,438,831.9638  
 Delta = 47° 19' 22.14" (LT)  
 Degree = 1° 59' 46.93"  
 Tangent = 1,257.5370'  
 Length = 2,370.4448'  
 Radius = 2,870.0000'  
 External = 263.4165'  
 Long Chord = 2,303.6395'  
 Mid. Ord. = 241.2719'  
 P.C. Station 2281+63.98 N 1,852,378.9396 E 2,437,574.4598  
 P.T. Station 2305+34.43 N 1,853,318.7023 E 2,439,677.6956  
 C.C. N 1,855,248.8645 E 2,437,553.6961

Course from PT WES260 to WES3021 42° 15' 45.58" Dist 3,536.4348'

Point WES3021 N 1,855,935.9099 E 2,442,056.0555 Sta 2340+70.86

Ending chain D2-I-88 description

FILE NAME =	USER NAME = rankestr	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.	
ca:\pwork\pwork\rankestr\10292974\02-ht-ATB.dgn		DRAWN -	REVISED -			*	D2 SAFETY 2012-2	**	151	27	
PLOT SCALE = 50.0000' / in.		CHECKED -	REVISED -			CONTRACT NO. 64H77					
PLOT DATE = Mon Apr 30 14:17:36 2012		DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO