

# PROPOSED HORIZONTAL CONTROL

Curve Data  
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Curve 70350  
 P.I. Station 805+53.73 N 1,969,742.3992 E 727,075.4655  
 Delta = 16° 15' 19.40" (LT)  
 Degree = 1° 25' 56.62"  
 Tangent = 571.2571'  
 Length = 1,134.8403'  
 Radius = 4,000.0000'  
 External = 40.5859'  
 Long Chord = 1,131.0381'  
 Mid. Ord. = 40.1783'  
 P.C. Station 799+82.47 N 1,969,272.6463 E 726,750.4012  
 P.T. Station 811+17.31 N 1,970,284.3649 E 727,256.0420  
 C.C. N 1,971,548.7796 E 723,461.1434

Course from PT 70350 to PC 70360 18° 25' 38.84" Dist 357.8167'

Curve Data  
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Curve 70360  
 P.I. Station 820+26.92 N 1,971,147.3369 E 727,543.5739  
 Delta = 41° 40' 06.74" (LT)  
 Degree = 3° 57' 05.16"  
 Tangent = 551.7960'  
 Length = 1,054.5172'  
 Radius = 1,450.0000'  
 External = 101.4441'  
 Long Chord = 1,031.4315'  
 Mid. Ord. = 94.8110'  
 P.C. Station 814+75.13 N 1,970,623.8344 E 727,369.1491  
 P.T. Station 825+29.65 N 1,971,654.3560 E 727,325.8347  
 C.C. N 1,971,082.1848 E 725,993.4984

Course from PT 70360 to PC 70370 336° 45' 32.09" Dist 213.8557'

Curve Data  
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Curve 70370  
 P.I. Station 833+30.82 N 1,972,390.5192 E 727,009.6897  
 Delta = 22° 09' 13.71" (RT)  
 Degree = 1° 54' 35.49"  
 Tangent = 587.3208'  
 Length = 1,159.9706'  
 Radius = 3,000.0000'  
 External = 56.9504'  
 Long Chord = 1,152.7583'  
 Mid. Ord. = 55.8894'  
 P.C. Station 827+43.50 N 1,971,850.8579 E 727,241.4470  
 P.T. Station 839+03.47 N 1,972,977.7343 E 726,998.5451  
 C.C. N 1,973,034.6606 E 729,998.0049

Course from PT 70370 to PC 73270 358° 54' 45.80" Dist 928.7268'

Curve Data  
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Curve 73270  
 P.I. Station 854+53.48 N 1,974,527.4618 E 726,969.1330  
 Delta = 25° 01' 15.09" (RT)  
 Degree = 2° 02' 46.60"  
 Tangent = 621.2798'  
 Length = 1,222.7497'  
 Radius = 2,800.0000'  
 External = 68.0984'  
 Long Chord = 1,213.0569'  
 Mid. Ord. = 66.4815'  
 P.C. Station 848+32.20 N 1,973,906.2939 E 726,980.9221  
 P.T. Station 860+54.95 N 1,975,095.3216 E 727,221.1721  
 C.C. N 1,973,959.4251 E 729,780.4179

Course from PT 73270 to PC 73280 23° 56' 00.89" Dist 545.2908'

Curve Data  
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Curve 73280  
 P.I. Station 869+73.50 N 1,975,934.8944 E 727,593.8084  
 Delta = 21° 08' 35.25" (LT)  
 Degree = 2° 51' 53.24"  
 Tangent = 373.2625'  
 Length = 738.0343'  
 Radius = 2,000.0000'  
 External = 34.5331'  
 Long Chord = 733.8539'  
 Mid. Ord. = 33.9469'  
 P.C. Station 866+00.24 N 1,975,593.7264 E 727,442.3842  
 P.T. Station 873+38.27 N 1,976,307.7143 E 727,611.9801  
 C.C. N 1,976,405.0810 E 725,614.3515

Course from PT 73280 to PC 73290 2° 47' 25.64" Dist 316.5675'

Curve Data  
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Curve 73290  
 P.I. Station 879+55.96 N 1,976,924.6735 E 727,642.0514  
 Delta = 22° 42' 08.74" (RT)  
 Degree = 3° 49' 10.99"  
 Tangent = 301.1241'  
 Length = 594.3482'  
 Radius = 1,500.0000'  
 External = 29.9267'  
 Long Chord = 590.4677'  
 Mid. Ord. = 29.3413'  
 P.C. Station 876+54.84 N 1,976,623.9064 E 727,627.3916  
 P.T. Station 882+49.19 N 1,977,196.4798 E 727,771.6549  
 C.C. N 1,976,550.8814 E 729,125.6130

Course from PT 73290 to PC 50210 25° 29' 34.37" Dist 225.5910'

Curve Data  
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Curve 50210  
 P.I. Station 886+25.97 N 1,977,536.5786 E 727,933.8218  
 Delta = 4° 19' 45.37" (LT)  
 Degree = 1° 25' 56.62"  
 Tangent = 151.1919'  
 Length = 302.2400'  
 Radius = 4,000.0000'  
 External = 2.8564'  
 Long Chord = 302.1681'  
 Mid. Ord. = 2.8543'  
 P.C. Station 884+74.78 N 1,977,400.1069 E 727,868.7490  
 P.T. Station 887+77.02 N 1,977,677.5732 E 727,988.4070  
 C.C. N 1,979,121.7028 E 724,258.1939

Course from PT 50210 to PC 71200 21° 09' 49.01" Dist 1,358.3682'

Curve Data  
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Curve 71200  
 P.I. Station 908+48.83 N 1,979,609.6506 E 728,736.3992  
 Delta = 39° 43' 24.11" (RT)  
 Degree = 2° 54' 03.79"  
 Tangent = 713.4464'  
 Length = 1,369.2744'  
 Radius = 1,975.0000'  
 External = 124.9121'  
 Long Chord = 1,342.0150'  
 Mid. Ord. = 117.4818'  
 P.C. Station 901+35.39 N 1,978,944.3238 E 728,478.8219  
 P.T. Station 915+04.66 N 1,979,956.7666 E 729,359.7100  
 C.C. N 1,978,231.2848 E 730,320.6146

Course from PT 71200 to PC 71210 60° 53' 13.11" Dist 1,838.6246'

Curve Data  
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Curve 71210  
 P.I. Station 936+92.35 N 1,981,021.1500 E 731,271.0070  
 Delta = 13° 53' 38.21" (LT)  
 Degree = 2° 00' 00.00"  
 Tangent = 349.0610'  
 Length = 694.6976'  
 Radius = 2,864.7900'  
 External = 21.1874'  
 Long Chord = 692.9967'  
 Mid. Ord. = 21.0318'  
 P.C. Station 933+43.29 N 1,980,851.3200 E 730,966.0458  
 P.T. Station 940+37.98 N 1,981,259.2401 E 731,526.2651  
 C.C. N 1,983,354.1771 E 729,572.2281

Course from PT 71210 to PC 71220 46° 59' 34.90" Dist 3,104.5050'

Curve Data  
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Curve 71220  
 P.I. Station 975+33.17 N 1,983,643.2630 E 734,082.1930  
 Delta = 29° 11' 50.04" (RT)  
 Degree = 3° 49' 10.99"  
 Tangent = 390.6821'  
 Length = 764.3818'  
 Radius = 1,500.0000'  
 External = 50.0427'  
 Long Chord = 756.1380'  
 Mid. Ord. = 48.4271'  
 P.C. Station 971+42.49 N 1,983,376.7837 E 733,796.4987  
 P.T. Station 979+06.87 N 1,983,736.5182 E 734,461.5819  
 C.C. N 1,982,279.8776 E 734,819.6297

Course from PT 71220 to PC 72300 76° 11' 24.94" Dist 326.3204'

Curve Data  
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Curve 72300  
 P.I. Station 986+85.60 N 1,983,922.3992 E 735,217.7988  
 Delta = 33° 34' 01.50" (LT)  
 Degree = 3° 49' 10.99"  
 Tangent = 452.4066'  
 Length = 878.7842'  
 Radius = 1,500.0000'  
 External = 66.7392'  
 Long Chord = 866.2704'  
 Mid. Ord. = 63.8963'  
 P.C. Station 982+33.19 N 1,983,814.4104 E 734,778.4696  
 P.T. Station 991+11.98 N 1,984,255.2905 E 735,524.1567  
 C.C. N 1,985,271.0510 E 734,420.4218

Curve Data  
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Curve 72310  
 P.I. Station 995+36.56 N 1,984,567.7121 E 735,811.6764  
 Delta = 12° 07' 05.41" (LT)  
 Degree = 1° 25' 56.62"  
 Tangent = 424.5879'  
 Length = 846.0079'  
 Radius = 4,000.0001'  
 External = 22.4712'  
 Long Chord = 844.4319'  
 Mid. Ord. = 22.3457'  
 P.C. Station 991+11.98 N 1,984,255.2905 E 735,524.1567  
 P.T. Station 999+57.98 N 1,984,933.5306 E 736,027.2030  
 C.C. N 1,986,963.9853 E 732,580.8637

Course from PT 72310 to PC 72320 30° 30' 18.03" Dist 300.0000'

Curve Data

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HORIZONTAL &amp; VERTICAL CONTROL</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
as\pwwork\pwwid\GRANTPM\dms31213\d86608\hvc.dgn		DRAWN -	REVISED -			742	37R-4	OGLE	867	82	
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E17					
PLOT DATE = Tue Mar 30 11:44:29 2010		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
				SCALE:		SHEET NO. OF SHEETS		STA. TO STA.			