

# HORIZONTAL & VERTICAL CONTROL

Curve Data  
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Curve 1330  
 P.I. Station 479+15.9261 N 2,109,289.8932 E 2,208,285.0053  
 Delta = 20° 48' 34.0647" (LT)  
 Degree = 2° 31' 02.1502"  
 Tangent = 417.9392'  
 Length = 826.6699'  
 Radius = 2,276.1133'  
 External = 38.0528'  
 Long Chord = 822.1338'  
 Mid. Ord. = 37.4271'  
 P.C. Station 474+97.9869 N 2,109,489.6953 E 2,207,917.9190  
 P.T. Station 483+24.6567 N 2,109,233.5362 E 2,208,699.1274  
 C.C. N 2,111,488.8612 E 2,209,006.0493

Course from PT 1330 to PC 1340 97° 44' 58.7167" Dist 984.4706'

Curve Data  
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Curve 1340  
 P.I. Station 495+28.6435 N 2,109,071.1849 E 2,209,892.1178  
 Delta = 1° 58' 37.8075" (RT)  
 Degree = 0° 27' 01.4099"  
 Tangent = 219.5162'  
 Length = 438.9888'  
 Radius = 12,721.3241'  
 External = 1.8938'  
 Long Chord = 438.9670'  
 Mid. Ord. = 1.8935'  
 P.C. Station 493+09.1273 N 2,109,100.7855 E 2,209,674.6065  
 P.T. Station 497+48.1161 N 2,109,034.0975 E 2,210,108.4783  
 C.C. N 2,096,495.6486 E 2,207,959.2026

Course from PT 1340 to PC A025340 99° 43' 35.7571" Dist 2,193.5873'

Curve Data  
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Curve A025340  
 P.I. Station 522+99.4444 N 2,108,603.0490 E 2,212,623.1300  
 Delta = 3° 16' 43.0780" (RT)  
 Degree = 0° 27' 30.1184"  
 Tangent = 357.7410'  
 Length = 715.2867'  
 Radius = 12,500.0000'  
 External = 5.1181'  
 Long Chord = 715.1891'  
 Mid. Ord. = 5.1160'  
 P.C. Station 519+41.7034 N 2,108,663.4976 E 2,212,270.5331  
 P.T. Station 526+56.9901 N 2,108,522.5337 E 2,212,971.6926  
 C.C. N 2,096,343.2393 E 2,210,158.3692

Course from PT A025340 to PC A025330 103° 00' 24.3061" Dist 1,229.2001'

Curve Data  
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Curve A025330  
 P.I. Station 541+67.4710 N 2,108,182.5760 E 2,214,443.4200  
 Delta = 11° 01' 23.8860" (LT)  
 Degree = 1° 57' 55.9796"  
 Tangent = 281.2808'  
 Length = 560.8253'  
 Radius = 2,915.0000'  
 External = 13.5396'  
 Long Chord = 559.9608'  
 Mid. Ord. = 13.4770'  
 P.C. Station 538+86.1902 N 2,108,245.8827 E 2,214,169.3558  
 P.T. Station 544+47.0155 N 2,108,172.8406 E 2,214,724.5323  
 C.C. N 2,111,086.0942 E 2,214,825.4228

Course from PT A025330 to PC A025320 91° 59' 00.4201" Dist 1,087.3834'

Curve Data  
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Curve A025320  
 P.I. Station 555+69.4287 N 2,108,133.9930 E 2,215,846.2730  
 Delta = 0° 43' 19.0364" (RT)  
 Degree = 1° 01' 49.7987"  
 Tangent = 35.0298'  
 Length = 70.0587'  
 Radius = 5,560.0000'  
 External = 0.1103'  
 Long Chord = 70.0582'  
 Mid. Ord. = 0.1103'  
 P.C. Station 555+34.3989 N 2,108,135.2054 E 2,215,811.2642  
 P.T. Station 556+04.4576 N 2,108,132.3396 E 2,215,881.2638  
 C.C. N 2,102,578.5366 E 2,215,618.8280

Course from PT A025320 to PC A025310 92° 42' 19.4565" Dist 1,737.3773'

Curve Data  
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Curve A025310  
 P.I. Station 573+75.1224 N 2,108,048.7630 E 2,217,649.9550  
 Delta = 0° 40' 09.1102" (RT)  
 Degree = 1° 00' 18.6808"  
 Tangent = 33.2875'  
 Length = 66.5743'  
 Radius = 5,700.0000'  
 External = 0.0972'  
 Long Chord = 66.5739'  
 Mid. Ord. = 0.0972'  
 P.C. Station 573+41.8348 N 2,108,050.3342 E 2,217,616.7046  
 P.T. Station 574+08.4091 N 2,108,046.8036 E 2,217,683.1848  
 C.C. N 2,102,356.6873 E 2,217,347.6608

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 Ending chain WBUS20 description

FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	F.A.P. RTE. 301	SECTION 31T	COUNTY JO DAVIESS	TOTAL SHEETS 160	SHEET NO. 29	
ct:\pwork\pwork\cushmanbw\d0117386\022808-ATB.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 64D92		
		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT					
		DATE = Wed Dec 09 11:18:32 2009	REVISED -							