HORIZONTAL & VERTICAL CONTROL

Chain WBUS20 contains:
A40 CUR 200 CUR 1230 CUR 1240 CUR 1250 CUR 1260 CUR 1270 CUR 1280 CUR 1290 CUR-1300 CUR 1310 CUR 1320 CUR 1330 CUR 1340 CUR A025340 CUR A025330 CUR A025320 C-UR A025310

Beginning chain WBUS20 description
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Point A40 N 2,116,788.7973 E 2,173,496.7679 Sta 110+45.2000

Course from A40 to PC 200 135° 50′ 49.1104″ Dist 95.1724′

Curve Data

Curve 200
P.I. Station 120+67.4657 N 2,116,055.3402 E 2,174,208.8549
Delta = 27° 12′ 12.5177″ (LT)
Degree = 1° 29′ 43.2048″
Tangent = 927.0933′
Length = 1,819.2233′
Radius = 3,831.6359′
External = 110.5635′
Long Chord = 1,802.1839′
Mid. Ord. = 107.4626′
P.C. Station 111+40.3724 N 2,116,720.5128 E 2,173,563.0628
P.T. Station 129+59.5957 N 2,115,758.9683 E 2,175,087.3000
C.C. N 2,119,389.5430 E 2,176,312.1920

Course from PT 200 to PC 1230 108° 38′ 36.5624″ Dist 3,053.0995′

Curve Data

Curve 1230
P.I. Station 179+82.7564 N 2,114,153.1712 E 2,179,846.8755
Delta = 15° 27′ 59.0511″ (RT)
Degree = 0° 23′ 41.7739″
Tangent = 1,970.0612′
Length = 3,916.1678′
Radius = 14,507.5674′
External = 133.1516′
Long Chord = 3,904.2886′
Mid. Ord. = 131.9406′
P.C. Station 160+12.6952 N 2,114,782.9577 E 2,177,980.1912
P.T. Station 199+28.8630 N 2,113,048.3965 E 2,181,478.0144
C.C. N 2,101,036.6598 E 2,173,342.4323

Course from PT 1230 to PC 1240 124° 06′ 35.6135″ Dist 201.2438′

Curve Data

Curve 1240
P.I. Station 206+57.0583 N 2,112,640.0376 E 2,182,080.9335
Delta = 25° 51′ 57.2363″ (LT)
Degree = 2° 29′ 48.6442″
Tangent = 526.9516′
Length = 1,035.9431′
Radius = 2,294.7266′
External = 59.7262′
Long Chord = 1,027.1685′
Mid. Ord. = 58.2111′
P.C. Station 201+30.1068 N 2,112,935.5426 E 2,181,644.6368
P.T. Station 211+66.0498 N 2,112,564.4787 E 2,182,602.4398
C.C. N 2,114,835.4925 E 2,182,931.4781

Course from PT 1240 to PC 1250 98° 14′ 38.3772″ Dist 1,239.8903′

Curve Data

Curve 1250
P.I. Station 230+39.7891 N 2,112,295.8053 E 2,184,456.8167
Delta = 30° 44′ 07.5783″ (RT)
Degree = 2° 29′ 03.7358″
Tangent = 633.8491′
Length = 1,237.1517′
Radius = 2,306.2489′
External = 85.5179′
Long Chord = 1,222.3714′
Mid. Ord. = 82.4602′
P.C. Station 224+05.9401 N 2,112,386.6922 E 2,183,829.5176
P.T. Station 236+43.0918 N 2,111,897.0880 E 2,184,949.5531
C.C. N 2,110,104.2751 E 2,183,498.8272

Course from PT 1250 to PC 1260 128° 58′ 45.9555″ Dist 320.0331′

Curve Data

Curve 1260
P.I. Station 249+66.7887 N 2,111,064.4279 E 2,185,978.5578
Delta = 47° 21′ 47.2526″ (LT)
Degree = 2° 30′ 13.4529″
Tangent = 1,003.6638′
Length = 1,891.6974′
Radius = 2,288.4106′
External = 210.4220′
Long Chord = 1,838.2944′
Mid. Ord. = 192.7027′
P.C. Station 239+63.1248 N 2,111,695.7740 E 2,185,198.3378
P.T. Station 258+54.8222 N 2,111,210.7636 E 2,186,971.4964
C.C. N 2,113,474.7198 E 2,186,637.8427

Course from PT 1260 to PC 1270 81° 36′ 58.7029″ Dist 861.0355′

Curve Data

Curve 1270
P.I. Station 289+22.5705 N 2,111,658.0458 E 2,190,006.4623
Delta = 17° 30′ 50.4266″ (RT)
Degree = 0° 23′ 59.8340″
Tangent = 2,206.7128′
Length = 4,379.0066′
Radius = 14,325.5962′
External = 168.9644′
Long Chord = 4,361.9779′
Mid. Ord. = 166.9948′
P.C. Station 267+15.8578 N 2,111,336.3038 E 2,187,823.3308
P.T. Station 310+94.8644 N 2,111,307.8836 E 2,192,185.2160
C.C. N 2,097,163.7928 E 2,189,912.0238

Course from PT 1270 to PC 1280 99° 07′ 49.1295″ Dist 1,464.1532′

Curve Data

Curve 1280
P.I. Station 332+66.7768 N 2,110,963.2435 E 2,194,329.6103
Delta = 34° 19′ 56.5796″ (LT)
Degree = 2° 30′ 02.5361″
Tangent = 707.7592′
Length = 1,372.9085′
Radius = 2,291.1855′
External = 106.8249′
Long Chord = 1,352.4608′
Mid. Ord. = 102.0662′
P.C. Station 325+59.0176 N 2,111,075.5511 E 2,193,630.8184
P.T. Station 339+31.9261 N 2,111,264.6159 E 2,194,969.9991
C.C. N 2,113,337.7073 E 2,193,994.3848

Course from PT 1280 to PC 1290 64° 47′ 52.5499″ Dist 332.4376′

Curve Data

Curve 1290
P.I. Station 351+78.1220 N 2,111,795.2610 E 2,196,097.5717
Delta = 43° 27′ 31.7552″ (RT)
Degree = 2° 29′ 56.4058″
Tangent = 913.7583′
Length = 1,739.0473′
Radius = 2,292.7468′
External = 175.3784′
Long Chord = 1,697.6581′
Mid. Ord. = 162.9165′
P.C. Station 342+64.3637 N 2,111,406.1718 E 2,195,270.7925
P.T. Station 360+03.4110 N 2,111,509.0027 E 2,196,965.3334
C.C. N 2,109,331.6677 E 2,196,247.0715

Course from PT 1290 to PC 1300 108° 15′ 24.3051″ Dist 292.2535′

Curve Data

Curve 1300
P.I. Station 368+05.2521 N 2,111,257.8054 E 2,197,726.8116
Delta = 18° 34′ 26.5247″ (LT)
Degree = 1° 50′ 18.9141″
Tangent = 509.5876′
Length = 1,010.2341′
Radius = 3,116.2938′
External = 41.3899′
Long Chord = 1,005.8162′
Mid. Ord. = 40.8474′
P.C. Station 362+95.6645 N 2,111,417.4468 E 2,197,242.8755
P.T. Station 373+05.8985 N 2,111,260.6273 E 2,198,236.3914
C.C. N 2,114,376.8732 E 2,198,219.1346

Course from PT 1300 to PC 1310 89° 40′ 57.7805″ Dist 6,218.9396′

Curve Data

Curve 1310
P.I. Station 444+09.7729 N 2,111,299.9657 E 2,205,340.1569
Delta = 42° 23′ 39.0258″ (RT)
Degree = 2° 30′ 39.3983″
Tangent = 884.9348′
Length = 1,688.3759′
Radius = 2,281.8422′
External = 165.5878′
Long Chord = 1,650.1241′
Mid. Ord. = 154.3845′
P.C. Station 435+24.8381 N 2,111,295.0653 E 2,204,455.2357
P.T. Station 452+13.2141 N 2,110,706.9468 E 2,205,996.9964
C.C. N 2,109,013.2581 E 2,204,467.8716

Course from PT 1310 to PC 1320 132° 04′ 36.8063″ Dist 406.1536′

Curve Data

Curve 1320
P.I. Station 458+58.4223 N 2,110,274.5751 E 2,206,475.8997
Delta = 13° 31′ 04.0249″ (LT)
Degree = 2° 50′ 25.9100″
Tangent = 239.0546′
Length = 475.8894′
Radius = 2,017.0802′
External = 14.1164′
Long Chord = 474.7865′
Mid. Ord. = 14.0183′
P.C. Station 456+19.3677 N 2,110,434.7721 E 2,206,298.4624
P.T. Station 460+95.2571 N 2,110,160.2914 E 2,206,685.8672
C.C. N 2,111,931.9422 E 2,207,650.1629

Course from PT 1320 to PC 1330 118° 33′ 32.7814″ Dist 1,402.7298′

FILE NAME = c:\pw_work\pwidot\cushmanbw\d0117386\D2282828-ATB.dgn	USER NAME = cushmanbw	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Wed Dec 09 11:18:31 2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	31T	JO DAVIESS	160	28
		CONTRACT NO. 64D92		
		ILLINOIS FED. AID PROJECT		