

HORIZONTAL & VERTICAL CONTROL SHEETS

Chain STE73 contains:
 1119 CUR 270 CUR 210 CUR 220 CUR 230 CUR 240 CUR 250
 CUR 260 CUR 280 CUR 290 CUR 300 CUR 310 CUR 320 10 1202

Beginning chain STE73 description

Point 1119 N 2,014,818.4127 E 2,389,194.4308 Sta 0+00.00

Course from 1119 to PC 270 359° 02' 14.40" Dist 7,482.9612'

Curve Data

Curve 270
 P.I. Station 80+71.13 N 2,022,888.4052 E 2,389,058.8284
 Delta = 0° 28' 52.65" (LT)
 Degree = 0° 02' 27.29"
 Tangent = 588.1705'
 Length = 1,176.3341'
 Radius = 140,037.5039'
 External = 1.2352'
 Long Chord = 1,176.3307'
 Mid. Ord. = 1.2352'
 P.C. Station 74+82.96 N 2,022,300.3177 E 2,389,068.7102
 P.T. Station 86+59.30 N 2,023,476.3889 E 2,389,044.0070
 C.C. N 2,019,947.5592 E 2,249,050.9720

Course from PT 270 to PC 210 358° 33' 21.75" Dist 8,919.2009'

Curve Data

Curve 210
 P.I. Station 180+63.10 N 2,032,877.2042 E 2,388,807.0390
 Delta = 1° 21' 58.19" (RT)
 Degree = 0° 08' 27.47"
 Tangent = 484.6006'
 Length = 969.1552'
 Radius = 40,645.5577'
 External = 2.8887'
 Long Chord = 969.1323'
 Mid. Ord. = 2.8885'
 P.C. Station 175+78.50 N 2,032,392.7575 E 2,388,819.2505
 P.T. Station 185+47.65 N 2,033,361.8043 E 2,388,806.3810
 C.C. N 2,033,416.9921 E 2,429,451.9012

Course from PT 210 to PC 220 359° 55' 19.94" Dist 1,913.9110'

Curve Data

Curve 220
 P.I. Station 208+15.60 N 2,035,629.7551 E 2,388,803.3016
 Delta = 0° 45' 05.23" (LT)
 Degree = 0° 06' 22.06"
 Tangent = 354.0419'
 Length = 708.0736'
 Radius = 53,988.2055'
 External = 1.1608'
 Long Chord = 708.0685'
 Mid. Ord. = 1.1608'
 P.C. Station 204+61.56 N 2,035,275.7135 E 2,388,803.7823
 P.T. Station 211+69.64 N 2,035,983.7599 E 2,388,798.1777
 C.C. N 2,035,202.4094 E 2,334,815.6266

Course from PT 220 to PC 230 359° 10' 14.70" Dist 1,468.3167'

Curve Data

Curve 230
 P.I. Station 228+86.32 N 2,037,700.2615 E 2,388,773.3328
 Delta = 0° 23' 42.41" (LT)
 Degree = 0° 04' 46.36"
 Tangent = 248.3648'
 Length = 496.7276'
 Radius = 72,030.7770'
 External = 0.4282'
 Long Chord = 496.7266'
 Mid. Ord. = 0.4282'
 P.C. Station 226+37.95 N 2,037,451.9228 E 2,388,776.9273
 P.T. Station 231+34.68 N 2,037,948.5696 E 2,388,768.0259
 C.C. N 2,036,409.4491 E 2,316,753.6944

Course from PT 230 to PC 240 358° 46' 32.29" Dist 517.6298'

Curve Data

Curve 240
 P.I. Station 241+52.31 N 2,038,965.9671 E 2,388,746.2816
 Delta = 0° 14' 25.46" (RT)
 Degree = 0° 01' 26.55"
 Tangent = 500.0000'
 Length = 999.9985'
 Radius = 238,328.5365'
 External = 0.5245'
 Long Chord = 999.9978'
 Mid. Ord. = 0.5245'
 P.C. Station 236+52.31 N 2,038,466.0812 E 2,388,756.9654
 P.T. Station 246+52.31 N 2,039,465.8933 E 2,388,737.6954
 C.C. N 2,043,558.5759 E 2,627,031.0886

Course from PT 240 to PC 250 359° 00' 57.76" Dist 1,792.5800'

Curve Data

Curve 250
 P.I. Station 265+54.85 N 2,041,368.1579 E 2,388,705.0241
 Delta = 6° 08' 57.22" (LT)
 Degree = 2° 47' 55.23"
 Tangent = 109.9652'
 Length = 219.7192'
 Radius = 2,047.2466'
 External = 2.9512'
 Long Chord = 219.6138'
 Mid. Ord. = 2.9469'
 P.C. Station 264+44.89 N 2,041,258.2090 E 2,388,706.9124
 P.T. Station 266+64.61 N 2,041,477.2720 E 2,388,691.3690
 C.C. N 2,041,223.0527 E 2,386,659.9677

Course from PT 250 to PC 260 352° 52' 00.54" Dist 84.0119'

Curve Data

Curve 260
 P.I. Station 268+28.66 N 2,041,640.0575 E 2,388,670.9972
 Delta = 6° 31' 34.86" (RT)
 Degree = 4° 04' 52.23"
 Tangent = 80.0433'
 Length = 159.9136'
 Radius = 1,403.9043'
 External = 2.2800'
 Long Chord = 159.8271'
 Mid. Ord. = 2.2763'
 P.C. Station 267+48.62 N 2,041,560.6337 E 2,388,680.9367
 P.T. Station 269+08.53 N 2,041,720.0964 E 2,388,670.1495
 C.C. N 2,041,734.9652 E 2,390,073.9751

Course from PT 260 to PC 280 359° 23' 35.40" Dist 723.4470'

Curve Data

Curve 280
 P.I. Station 279+07.59 N 2,042,719.0937 E 2,388,659.5685
 Delta = 0° 11' 11.64" (LT)
 Degree = 0° 02' 01.85"
 Tangent = 275.6064'
 Length = 551.2122'
 Radius = 169,280.2678'
 External = 0.2244'
 Long Chord = 551.2120'
 Mid. Ord. = 0.2244'
 P.C. Station 276+31.98 N 2,042,443.5028 E 2,388,662.4874
 P.T. Station 281+83.19 N 2,042,994.6737 E 2,388,655.7522
 C.C. N 2,040,650.6487 E 2,219,391.7140

Course from PT 280 to PC 290 359° 12' 23.76" Dist 3,626.2593'

Curve Data

Curve 290
 P.I. Station 323+71.86 N 2,047,182.9366 E 2,388,597.7517
 Delta = 0° 46' 28.60" (LT)
 Degree = 0° 04' 07.92"
 Tangent = 562.4053'
 Length = 1,124.7934'
 Radius = 83,197.8260'
 External = 1.9009'
 Long Chord = 1,124.7849'
 Mid. Ord. = 1.9008'
 P.C. Station 318+09.45 N 2,046,620.5852 E 2,388,605.5393
 P.T. Station 329+34.25 N 2,047,745.1313 E 2,388,582.3623
 C.C. N 2,045,468.5444 E 2,305,415.6899

Course from PT 290 to PC 300 358° 25' 55.16" Dist 2,963.9784'

Curve Data

Curve 300
 P.I. Station 363+14.48 N 2,051,124.1051 E 2,388,489.8670
 Delta = 0° 26' 48.46" (RT)
 Degree = 0° 03' 13.20"
 Tangent = 416.2612'
 Length = 832.5181'
 Radius = 106,760.2632'
 External = 0.8115'
 Long Chord = 832.5160'
 Mid. Ord. = 0.8115'
 P.C. Station 358+98.22 N 2,050,707.9999 E 2,388,501.2574
 P.T. Station 367+30.74 N 2,051,540.2866 E 2,388,481.7217
 C.C. N 2,053,629.3384 E 2,495,221.5439

Course from PT 300 to PC 310 358° 52' 43.62" Dist 7,597.7250'

Curve Data

Curve 310
 P.I. Station 450+94.46 N 2,059,902.4016 E 2,388,318.0631
 Delta = 0° 33' 14.42" (LT)
 Degree = 0° 02' 10.19"
 Tangent = 765.9913'
 Length = 1,531.9707'
 Radius = 158,437.7881'
 External = 1.8516'
 Long Chord = 1,531.9648'
 Mid. Ord. = 1.8516'
 P.C. Station 443+28.47 N 2,059,136.5569 E 2,388,333.0518
 P.T. Station 458+60.44 N 2,060,668.0655 E 2,388,295.6701
 C.C. N 2,056,036.2953 E 2,229,925.5991

Course from PT 310 to PC 320 358° 19' 29.20" Dist 6,117.7349'

Curve Data

Curve 320
 P.I. Station 525+85.97 N 2,067,390.7217 E 2,388,099.0559
 Delta = 0° 51' 02.91" (RT)
 Degree = 0° 04' 11.97"
 Tangent = 607.7958'
 Length = 1,215.5692'
 Radius = 81,859.8896'
 External = 2.2564'
 Long Chord = 1,215.5580'
 Mid. Ord. = 2.2563'
 P.C. Station 519+78.17 N 2,066,783.1857 E 2,388,116.8242
 P.T. Station 531+93.74 N 2,067,998.4545 E 2,388,090.3108
 C.C. N 2,069,176.2777 E 2,469,941.7266

Course from PT 320 to 10 359° 10' 32.10" Dist 6,145.5439'

Point 10 N 2,074,143.3623 E 2,388,001.8870 Sta 593+39.29

Course from 10 to 1202 359° 10' 32.14" Dist 4,456.9568'

Point 1202 N 2,078,599.8578 E 2,387,937.7598 Sta 637+96.24

Ending chain STE73 description

FILE NAME =	USER NAME = dssdd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 73			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw_work\PWIDOT\DOSSDD\dms33571\d02967hva.dgn		DRAWN -	REVISED -					654	(107, 108, 109)RS-4	STEPHENSON	89	38
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -					CONTRACT NO. 64C91				
PLOT DATE = Wed Sep 24 08:18:18 2008		DATE -	REVISED -					FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				
				SCALE: SHEET NO. OF SHEETS STA. TO STA.								