

HORIZONTAL & VERTICAL CONTROL

Chain US30 contains:
 1792 CUR 250 CUR 260 CUR 270 CUR 280 CUR 290 CUR 300 CUR 310 CUR 320 CUR 330 C-
 UR 340 CUR 350 CUR 360 CUR 01800200 CUR 01800210 CUR 01800220 CUR 01800230 A018-
 240 A018250 A018380 CUR 01800260 CUR 01800270 CUR 01800280 A018290 A018300 CUR -
 01800310 CUR 01800320 CUR 01800330 CUR 01800340 CUR 370 CUR 380 CUR 390 CUR 120-
 0 CUR 1210 CUR 1220 CUR 1230 CUR 1240 CUR 1250 CUR 1260 CUR 1270 1802

Beginning chain US30 description
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Point 1792 N 1,884,202.7500 E 2,297,026.3525 Sta 466+33.3103

Course from 1792 to PC 250 60° 07' 56.5221" Dist 2,948.5049'

Curve Data

Curve 250

Feature: 111
 P.I. Station 502+29.1265 N 1,885,993.4591 E 2,300,144.5659
 Delta = 6° 14' 09.9215" (RT)
 Degree = 0° 28' 55.8039"
 Tangent = 647.3113'
 Length = 1,293.3443'
 Radius = 11,882.9554'
 External = 17.6177'
 Long Chord = 1,292.7060'
 Mid. Ord. = 17.5917'
 P.C. Station 495+81.8152 N 1,885,671.0994 E 2,299,583.2316
 P.T. Station 508+75.1595 N 1,886,252.9361 E 2,300,737.5951
 C.C. N 1,875,366.4593 E 2,305,500.9189

Course from PT 250 to PC 260 66° 22' 06.4437" Dist 10,510.3633'

Curve Data

Curve 260

Feature: 111
 P.I. Station 625+97.6707 N 1,890,951.9453 E 2,311,477.0821
 Delta = 23° 58' 49.4500" (RT)
 Degree = 1° 00' 13.9212"
 Tangent = 1,212.1479'
 Length = 2,388.8028'
 Radius = 5,707.5070'
 External = 127.2971'
 Long Chord = 2,371.4053'
 Mid. Ord. = 124.5199'
 P.C. Station 613+85.5228 N 1,890,466.0516 E 2,310,366.5823
 P.T. Station 637+74.3256 N 1,890,944.5649 E 2,312,689.2076
 C.C. N 1,885,237.1637 E 2,312,654.4562

Course from PT 260 to PC 270 90° 20' 55.8936" Dist 3,706.9213'

Curve Data

Curve 270

Feature: 111
 P.I. Station 680+89.9285 N 1,890,918.2884 E 2,317,004.7305
 Delta = 22° 53' 11.5916" (LT)
 Degree = 1° 54' 19.4866"
 Tangent = 608.6816'
 Length = 1,201.1335'
 Radius = 3,007.0007'
 External = 60.9867'
 Long Chord = 1,193.1640'
 Mid. Ord. = 59.7744'
 P.C. Station 674+81.2469 N 1,890,921.9945 E 2,316,396.0602
 P.T. Station 686+82.3804 N 1,891,151.5907 E 2,317,566.9257
 C.C. N 1,893,928.9394 E 2,316,414.3689

Course from PT 270 to PC 280 67° 27' 44.3020" Dist 1,245.2303'

Curve Data

Curve 280

Feature: 111
 P.I. Station 708+50.4420 N 1,891,982.5896 E 2,319,569.4072
 Delta = 65° 33' 22.1162" (RT)
 Degree = 3° 59' 52.3264"
 Tangent = 922.8313'
 Length = 1,639.7774'
 Radius = 1,433.1582'
 External = 271.4121'
 Long Chord = 1,551.7849'
 Mid. Ord. = 228.1962'
 P.C. Station 699+27.6107 N 1,891,628.8765 E 2,318,717.0547
 P.T. Station 715+67.3881 N 1,891,353.0028 E 2,320,244.1206
 C.C. N 1,890,305.1721 E 2,319,266.3716

Course from PT 280 to PC 290 133° 01' 06.4183" Dist 1,438.2907'

Curve Data

Curve 290

Feature: 111
 P.I. Station 735+04.4632 N 1,890,031.4646 E 2,321,660.3822
 Delta = 3° 01' 09.9092" (LT)
 Degree = 0° 18' 09.8921"
 Tangent = 498.7845'
 Length = 997.3381'
 Radius = 18,925.2500'
 External = 6.5717'
 Long Chord = 997.2227'
 Mid. Ord. = 6.5694'
 P.C. Station 730+05.6788 N 1,890,371.7523 E 2,321,295.7038
 P.T. Station 740+03.0168 N 1,889,710.8586 E 2,322,042.4787
 C.C. N 1,904,208.6471 E 2,334,207.1495

Course from PT 290 to PC 300 129° 59' 56.5091" Dist 3,029.1371'

Curve Data

Curve 300

Feature: 111
 P.I. Station 773+13.8231 N 1,887,582.7563 E 2,324,578.7394
 Delta = 0° 15' 34.3677" (RT)
 Degree = 0° 02' 45.8629"
 Tangent = 281.6691'
 Length = 563.3372'
 Radius = 124,358.5845'
 External = 0.3190'
 Long Chord = 563.3367'
 Mid. Ord. = 0.3190'
 P.C. Station 770+32.1540 N 1,887,763.8061 E 2,324,362.9653
 P.T. Station 775+95.4912 N 1,887,400.7310 E 2,324,793.6912
 C.C. N 1,792,498.2506 E 2,244,428.4203

Course from PT 300 to PC 310 130° 15' 30.8767" Dist 3,125.1183'

Curve Data

Curve 310

Feature: 111
 P.I. Station 812+24.3652 N 1,885,055.6139 E 2,327,563.0146
 Delta = 9° 54' 51.1758" (LT)
 Degree = 0° 59' 11.3742"
 Tangent = 503.7557'
 Length = 1,004.9962'
 Radius = 5,808.0280'
 External = 21.8055'
 Long Chord = 1,003.7429'
 Mid. Ord. = 21.7240'
 P.C. Station 807+20.6095 N 1,885,381.1601 E 2,327,178.5806
 P.T. Station 817+25.6057 N 1,884,801.1186 E 2,327,997.7581
 C.C. N 1,889,813.4738 E 2,330,931.9503

Course from PT 310 to PC 320 120° 20' 39.7010" Dist 683.4727'

Curve Data

Curve 320

Feature: 111
 P.I. Station 828+90.8811 N 1,884,212.4262 E 2,329,003.3961
 Delta = 0° 40' 36.5715" (RT)
 Degree = 0° 04' 12.8628"
 Tangent = 481.8026'
 Length = 963.5941'
 Radius = 81,571.8114'
 External = 1.4229'
 Long Chord = 963.5885'
 Mid. Ord. = 1.4228'
 P.C. Station 824+09.0785 N 1,884,455.8309 E 2,328,587.5982
 P.T. Station 833+72.6725 N 1,883,964.1268 E 2,329,416.2898
 C.C. N 1,814,058.9776 E 2,287,377.8488

Course from PT 320 to PC 330 121° 01' 16.2725" Dist 1,155.4844'

Curve Data

Curve 330

Feature: 111
 P.I. Station 866+73.8467 N 1,882,262.8501 E 2,332,245.3195
 Delta = 25° 11' 37.0564" (LT)
 Degree = 0° 35' 48.1950"
 Tangent = 2,145.6898'
 Length = 4,222.0122'
 Radius = 9,601.7728'
 External = 236.8260'
 Long Chord = 4,188.0813'
 Mid. Ord. = 231.1253'
 P.C. Station 845+28.1569 N 1,883,368.6421 E 2,330,406.5131
 P.T. Station 887+50.1691 N 1,882,044.9879 E 2,334,379.9203
 C.C. N 1,891,597.1386 E 2,335,354.8348

Course from PT 330 to PC 340 95° 49' 39.2161" Dist 1,735.4179'

Curve Data

Curve 340

Feature: 111
 P.I. Station 916+41.0167 N 1,881,751.4662 E 2,337,255.8279
 Delta = 13° 08' 26.4326" (RT)
 Degree = 0° 34' 16.1569"
 Tangent = 1,155.4296'
 Length = 2,300.7210'
 Radius = 10,031.5696'
 External = 66.3216'
 Long Chord = 2,295.6818'
 Mid. Ord. = 65.8860'
 P.C. Station 904+85.5871 N 1,881,868.7825 E 2,336,106.3696
 P.T. Station 927+86.3080 N 1,881,375.9008 E 2,338,348.5165
 C.C. N 1,871,889.0563 E 2,335,087.8158

Course from PT 340 to PC 350 108° 58' 05.6486" Dist 1,028.6375'

Curve Data

Curve 350

Feature: 111
 P.I. Station 949+83.6786 N 1,880,661.6589 E 2,340,426.5674
 Delta = 12° 21' 19.4856" (RT)
 Degree = 0° 31' 50.3017"
 Tangent = 1,168.7331'
 Length = 2,328.4011'
 Radius = 10,797.4988'
 External = 63.0683'
 Long Chord = 2,323.8922'
 Mid. Ord. = 62.7020'
 P.C. Station 938+14.9455 N 1,881,041.5484 E 2,339,321.2979
 P.T. Station 961+43.3466 N 1,880,054.0676 E 2,341,424.9510
 C.C. N 1,870,830.3654 E 2,335,811.6365

FILE NAME = c:\pwwork\pwwork\HENSONKE\j0128026\0281708-shs-ATB.dgn	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL & VERTICAL CONTROL	F.A.P. RTE. 309	SECTION (20-1)M	COUNTY WHITESIDE	TOTAL SHEETS 53	SHEET NO. 15
PLOT SCALE = 50.0000' / IN.				SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 64F37				
PLOT DATE = Tue Dec 01 11:54:33 2009				DATE		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				