

HORIZONTAL & VERTICAL CONTROL

Chain PIL76 contains:
G395 CUR G310 CUR G320 CUR G330 CUR G340 CUR 70210 G362

Beginning chain PIL76 description
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Point G395 N 2,043,777.7400 E 844,070.2870 Sta 40+00.00

Course from G395 to PC G310 N 0° 45' 22.59" E Dist 106.3149'

Curve Data

Curve G310
P.I. Station 46+21.09 N 2,044,398.7734 E 844,078.4848
Delta = 9° 01' 00.87" (LT)
Degree = 0° 52' 39.46"
Tangent = 514.7725'
Length = 1,027.4193'
Radius = 6,528.4900'
External = 20.2635'
Long Chord = 1,026.3594'
Mid. Ord. = 20.2008'
P.C. Station 41+06.31 N 2,043,884.0457 E 844,071.6903
P.T. Station 51+33.73 N 2,044,908.2050 E 844,004.5242
C.C. N 2,043,970.2160 E 837,543.7690

Course from PT G310 to PC G320 N 8° 15' 38.27" W Dist 5,755.8985'

Curve Data

Curve G320
P.I. Station 113+76.08 N 2,051,085.7842 E 843,107.6474
Delta = 6° 53' 50.83" (RT)
Degree = 0° 42' 35.35"
Tangent = 486.4466'
Length = 971.7180'
Radius = 8,071.8686'
External = 14.6444'
Long Chord = 971.1314'
Mid. Ord. = 14.6179'
P.C. Station 108+89.63 N 2,050,604.3846 E 843,177.5383
P.T. Station 118+61.35 N 2,051,572.0932 E 843,096.0750
C.C. N 2,051,764.1204 E 851,165.6592

Course from PT G320 to PC G330 N 1° 21' 47.44" W Dist 1,531.3487'

Curve Data

Curve G330
P.I. Station 139+90.12 N 2,053,700.2592 E 843,045.4323
Delta = 51° 58' 56.94" (RT)
Degree = 4° 40' 32.89"
Tangent = 597.4198'
Length = 1,111.7336'
Radius = 1,225.3674'
External = 137.8771'
Long Chord = 1,073.9947'
Mid. Ord. = 123.9324'
P.C. Station 133+92.70 N 2,053,103.0085 E 843,059.6447
P.T. Station 145+04.43 N 2,054,079.3042 E 843,507.2063
C.C. N 2,053,132.1596 E 844,284.6653

Course from PT G330 to PC G340 N 50° 37' 09.50" E Dist 1,679.8817'

Curve Data

Curve G340
P.I. Station 169+91.18 N 2,055,657.0677 E 845,429.3271
Delta = 50° 10' 30.31" (LT)
Degree = 3° 19' 28.22"
Tangent = 806.8603'
Length = 1,509.2496'
Radius = 1,723.4376'
External = 179.5234'
Long Chord = 1,461.4838'
Mid. Ord. = 162.5874'
P.C. Station 161+84.31 N 2,055,145.1389 E 844,805.6665
P.T. Station 176+93.56 N 2,056,463.9037 E 845,435.5827
C.C. N 2,056,477.2655 E 843,712.1969

Course from PT G340 to PC 70210 N 0° 26' 39.19" E Dist 5,539.8620'

Curve Data

Curve 70210
P.I. Station 238+19.18 N 2,062,589.3352 E 845,483.0747
Delta = 19° 41' 31.08" (LT)
Degree = 1° 41' 51.55"
Tangent = 585.7536'
Length = 1,159.9526'
Radius = 3,375.0000'
External = 50.4536'
Long Chord = 1,154.2520'
Mid. Ord. = 49.7105'
P.C. Station 232+33.43 N 2,062,003.5992 E 845,478.5333
P.T. Station 243+93.38 N 2,063,142.3463 E 845,289.9789
C.C. N 2,062,029.7656 E 842,103.6347

Course from PT 70210 to G362 N 19° 14' 51.89" W Dist 2,651.0004'

Point G362 N 2,065,645.1610 E 844,416.0673 Sta 270+44.38

Ending chain PIL76 description
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Chain PW_ORTH contains:
G2156 G1320 CUR G1330 70220

Beginning chain PW_ORTH description
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Point G2156 N 2,062,401.5418 E 844,024.7302 Sta 500+63.94

Course from G2156 to G1320 N 89° 31' 23.11" E Dist 319.1831'

Point G1320 N 2,062,404.1986 E 844,343.9023 Sta 503+83.12

Course from G1320 to PC G1330 N 89° 04' 28.19" E Dist 325.5956'

Curve Data

Curve G1330
P.I. Station 508+49.39 N 2,062,411.7300 E 844,810.1137
Delta = 1° 31' 35.97" (RT)
Degree = 0° 32' 33.52"
Tangent = 140.6766'
Length = 281.3366'
Radius = 10,558.6205'
External = 0.9371'
Long Chord = 281.3282'
Mid. Ord. = 0.9370'
P.C. Station 507+08.71 N 2,062,409.4577 E 844,669.4554
P.T. Station 509+90.05 N 2,062,410.2540 E 844,950.7825
C.C. N 2,051,852.2147 E 844,840.0023

Course from PT G1330 to 70220 S 89° 23' 55.85" E Dist 506.9631'

Point 70220 N 2,062,404.9350 E 845,457.7178 Sta 514+97.01

Ending chain PW_ORTH description

Chain PE_ORTH contains:
70230 CUR G1310 G108

Beginning chain PE_ORTH description
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Point 70230 N 2,062,409.7449 E 845,457.1763 Sta 515+97.01

Course from 70230 to PC G1310 N 88° 37' 46.15" E Dist 294.6106'

Curve Data

Curve G1310
P.I. Station 520+36.37 N 2,062,420.2534 E 845,896.4129
Delta = 0° 37' 03.58" (RT)
Degree = 0° 12' 48.07"
Tangent = 144.7517'
Length = 289.5006'
Radius = 26,854.8511'
External = 0.3901'
Long Chord = 289.4992'
Mid. Ord. = 0.3901'
P.C. Station 518+91.62 N 2,062,416.7913 E 845,751.7026
P.T. Station 521+81.12 N 2,062,422.1554 E 846,041.1522
C.C. N 2,035,569.6225 E 846,394.0094

Course from PT G1310 to G108 N 89° 14' 49.72" E Dist 179.5870'

Point G108 N 2,062,424.5151 E 846,220.7237 Sta 523+60.70

Ending chain PE_ORTH description
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FILE NAME =	USER NAME = goffjl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL & VERTICAL CONTROL				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\VPWIDOT\GOFFJL\dms85434\d089	Bhvo.dgn	DRAWN -	REVISED -		754	101M-1	BOONE	74	18				
PLOT SCALE = 50,0000' / IN.	CHECKED -	REVISED -	SCALE:		SHEET NO.	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64E34		
PLOT DATE = Tue Mar 09 10:16:34 2010	DATE -	REVISED -											