

HORIZONTAL VERTICAL CONTROL SHEETS

Curve Data

Curve 1590
P.I. Station 161+95.12 N 2,028,218.021500 E 2,333,398.320000
Delta = 11° 52' 49.746395" (LT)
Degree = 2° 49' 00.722546"
Tangent = 211.640000'
Length = 421.762317'
Radius = 2,034.024748'
External = 10.980916'
Long Chord = 421.007145'
Mid. Ord. = 10.921952'
P.C. Station 159+83.48 N 2,028,014.709193 E 2,333,457.104312
P.T. Station 164+05.24 N 2,028,404.876708 E 2,333,298.938811
C.C. N 2,027,449.746304 E 2,331,503.115159

Course from PT 1590 to PC 1600 N 28° 00' 24.535993" W Dist 3,238.735836'

Curve Data

Curve 1600
P.I. Station 198+04.14 N 2,031,405.742600 E 2,331,702.892200
Delta = 17° 37' 13.871469" (RT)
Degree = 5° 32' 39.606069"
Tangent = 160.170000'
Length = 317.811240'
Radius = 1,033.411208'
External = 12.338836'
Long Chord = 316.560299'
Mid. Ord. = 12.193249'
P.C. Station 196+43.97 N 2,031,264.329830 E 2,331,778.104282
P.T. Station 199+61.79 N 2,031,563.288154 E 2,331,674.016130
C.C. N 2,031,749.595541 E 2,332,690.494503

Curve Data

Curve 1610
P.I. Station 200+52.11 N 2,031,652.136900 E 2,331,657.731300
Delta = 9° 48' 53.074930" (RT)
Degree = 5° 26' 45.996014"
Tangent = 90.328818'
Length = 180.215659'
Radius = 1,052.049618'
External = 3.870689'
Long Chord = 179.995400'
Mid. Ord. = 3.856500'
P.C. Station 199+61.79 N 2,031,563.288154 E 2,331,674.016130
P.T. Station 201+42.00 N 2,031,742.461224 E 2,331,656.830242
C.C. N 2,031,752.955746 E 2,332,708.827516

Course from PT 1610 to PC 1620 N 0° 34' 17.589593" W Dist 1,601.462310'

Curve Data

Curve 1620
P.I. Station 219+31.46 N 2,033,531.834500 E 2,331,638.979800
Delta = 2° 59' 02.598264" (LT)
Degree = 0° 47' 37.199997"
Tangent = 188.000000'
Length = 375.915005'
Radius = 7,217.810227'
External = 2.447973'
Long Chord = 375.872520'
Mid. Ord. = 2.447143'
P.C. Station 217+43.46 N 2,033,343.843854 E 2,331,640.855158
P.T. Station 221+19.38 N 2,033,719.472615 E 2,331,627.320559
C.C. N 2,033,271.843956 E 2,324,423.404051

Course from PT 1620 to PC 1630 N 3° 33' 20.187857" W Dist 1,162.967518'

Curve Data

Curve 1630
P.I. Station 234+92.65 N 2,035,090.096700 E 2,331,542.154300
Delta = 20° 45' 24.060245" (RT)
Degree = 4° 59' 22.950704"
Tangent = 210.300000'
Length = 415.989898'
Radius = 1,148.279086'
External = 19.098723'
Long Chord = 413.718832'
Mid. Ord. = 18.786261'
P.C. Station 232+82.35 N 2,034,880.201511 E 2,331,555.196525
P.T. Station 236+98.34 N 2,035,290.990572 E 2,331,604.345474
C.C. N 2,034,951.414609 E 2,332,701.265264

Course from PT 1630 to PC 1640 N 17° 12' 03.872388" E Dist 458.252683'

Curve Data

Curve 1640
P.I. Station 244+31.32 N 2,035,991.189000 E 2,331,821.107500
Delta = 29° 46' 29.758320" (LT)
Degree = 5° 32' 39.417933"
Tangent = 274.730000'
Length = 537.038498'
Radius = 1,033.420949'
External = 35.894454'
Long Chord = 531.015894'
Mid. Ord. = 34.689560'
P.C. Station 241+56.59 N 2,035,728.746901 E 2,331,739.862700
P.T. Station 246+93.63 N 2,036,259.329929 E 2,331,761.299348
C.C. N 2,036,034.356328 E 2,330,752.663766

Course from PT 1640 to 294 N 12° 34' 25.885932" W Dist 194.591414'

Point 294 N 2,036,449.254300 E 2,331,718.937200 Sta 248+88.22

Course from 294 to PC 1660 N 13° 30' 57.941560" W Dist 307.510335'

Curve Data

Curve 1660
P.I. Station 254+93.12 N 2,037,037.401500 E 2,331,577.560800
Delta = 18° 19' 31.014935" (LT)
Degree = 3° 06' 27.196196"
Tangent = 297.390000'
Length = 589.701063'
Radius = 1,843.757834'
External = 23.829851'
Long Chord = 587.190788'
Mid. Ord. = 23.525790'
P.C. Station 251+95.73 N 2,036,748.247923 E 2,331,647.066345
P.T. Station 257+85.43 N 2,037,290.037851 E 2,331,420.666931
C.C. N 2,036,317.327604 E 2,329,854.372666

Course from PT 1660 to PC 1670 N 31° 50' 28.956495" W Dist 462.438774'

Curve Data

Curve 1670
P.I. Station 268+39.59 N 2,038,185.558300 E 2,330,864.525000
Delta = 60° 32' 38.396460" (RT)
Degree = 5° 39' 06.825727"
Tangent = 591.720000'
Length = 1,071.215724'
Radius = 1,013.744399'
External = 160.057230'
Long Chord = 1,022.068501'
Mid. Ord. = 138.232148'
P.C. Station 262+47.87 N 2,037,682.885104 E 2,331,176.698376
P.T. Station 273+19.08 N 2,038,704.570223 E 2,331,148.706601
C.C. N 2,038,217.705647 E 2,332,037.886331

Course from PT 1670 to 299 N 28° 42' 09.439966" E Dist 1,746.798691'

Point 299 N 2,040,236.729600 E 2,331,987.630500 Sta 290+65.88

Course from 299 to PC 1690 N 28° 36' 51.934700" E Dist 1,644.288502'

Curve Data

Curve 1690
P.I. Station 309+47.58 N 2,041,888.602000 E 2,332,888.800200
Delta = 13° 18' 53.077901" (RT)
Degree = 2° 49' 00.676737"
Tangent = 237.410000'
Length = 472.681253'
Radius = 2,034.033937'
External = 13.808236'
Long Chord = 471.618373'
Mid. Ord. = 13.715129'
P.C. Station 307+10.17 N 2,041,680.188683 E 2,332,775.101487
P.T. Station 311+82.85 N 2,042,065.228261 E 2,333,047.440271
C.C. N 2,040,706.063577 E 2,334,560.703440

Course from PT 1690 to PC 1700 N 41° 55' 45.012601" E Dist 1,126.636674'

Curve Data

Curve 1700
P.I. Station 325+24.38 N 2,043,063.285800 E 2,333,943.863700
Delta = 24° 07' 31.652542" (LT)
Degree = 5° 41' 52.365495"
Tangent = 214.890000'
Length = 423.411198'
Radius = 1,005.563236'
External = 22.704790'
Long Chord = 420.290193'
Mid. Ord. = 22.203454'
P.C. Station 323+09.49 N 2,042,903.413776 E 2,333,800.271750
P.T. Station 327+32.90 N 2,043,267.884630 E 2,334,009.567816
C.C. N 2,043,575.342603 E 2,333,052.161416

Course from PT 1700 to PC 1710 N 17° 48' 13.360060" E Dist 914.125573'

Curve Data

Curve 1710
P.I. Station 339+82.33 N 2,044,457.474700 E 2,334,391.588400
Delta = 18° 58' 37.047891" (RT)
Degree = 2° 51' 21.614895"
Tangent = 335.300000'
Length = 664.458342'
Radius = 2,006.151839'
External = 27.827338'
Long Chord = 661.425367'
Mid. Ord. = 27.446625'
P.C. Station 336+47.03 N 2,044,138.232354 E 2,334,289.068086
P.T. Station 343+11.48 N 2,044,726.027679 E 2,334,592.350416
C.C. N 2,043,524.837437 E 2,336,199.144492

Course from PT 1710 to PC 1720 N 36° 46' 50.407951" E Dist 713.988075'

Curve Data

Curve 1720
P.I. Station 352+91.48 N 2,045,510.940900 E 2,335,179.127600
Delta = 4° 38' 34.979181" (LT)
Degree = 0° 52' 23.515722"
Tangent = 266.010000'
Length = 531.728824'
Radius = 6,561.596138'
External = 5.389868'
Long Chord = 531.583343'
Mid. Ord. = 5.385444'
P.C. Station 350+25.47 N 2,045,297.884598 E 2,335,019.853207
P.T. Station 355+57.20 N 2,045,736.190942 E 2,335,320.632861
C.C. N 2,049,226.662623 E 2,329,764.451499

Course from PT 1720 to PC 1730 N 32° 08' 15.428769" E Dist 6,865.946275'

FILE NAME = c:\pw\work\VPWIDOT\HENSONKE\dms33697\08707HVC.DGN	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL VERTICAL CONTROL SHEETS	F.A.P. RTE. 642	SECTION (10,11)T	COUNTY JO DAVIESS	TOTAL SHEETS 283	SHEET NO. 40
PLOT SCALE = 3200.0000' / IN.	CHECKED -	DATE -	REVISED -	SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT CONTRACT NO. 64D07				