

Curve 330  
 P.I. Station 215+53.06 N 2,045,082.3590 E 2,577,786.1640  
 Delta = 2° 51' 50.0313" (LT)  
 Degree = 0° 38' 11.8312"  
 Tangent = 224.9768'  
 Length = 449.8600'  
 Radius = 9,000.0000'  
 External = 2.8115'  
 Long Chord = 449.8131'  
 Mid. Ord. = 2.8106'  
 P.C. Station 213+28.08 N 2,045,105.7084 E 2,577,562.4021  
 P.T. Station 217+77.94 N 2,045,070.2187 E 2,578,010.8130  
 C.C. N 2,054,057.1054 E 2,578,496.4743

**FOR INFORMATION ONLY**

Course from PT 330 to PC 1200 S 86° 54' 24.0538" E Dist 2,028.9852'

Curve Data

Curve 1200  
 P.I. Station 239+38.20 N 2,044,953.6460 E 2,580,167.9250  
 Delta = 3° 00' 28.4216" (LT)  
 Degree = 1° 08' 45.2961"  
 Tangent = 131.2743'  
 Length = 262.4883'  
 Radius = 5,000.0000'  
 External = 1.7230'  
 Long Chord = 262.4582'  
 Mid. Ord. = 1.7224'  
 P.C. Station 238+06.93 N 2,044,960.7299 E 2,580,036.8419  
 P.T. Station 240+69.42 N 2,044,953.4503 E 2,580,299.1992  
 C.C. N 2,049,953.4447 E 2,580,306.6538

Curve Data

Curve 1210  
 P.I. Station 242+14.48 N 2,044,953.2340 E 2,580,444.2640  
 Delta = 3° 19' 25.3534" (RT)  
 Degree = 1° 08' 45.2961"  
 Tangent = 145.0649'  
 Length = 290.0484'  
 Radius = 5,000.0000'  
 External = 2.1039'  
 Long Chord = 290.0077'  
 Mid. Ord. = 2.1031'  
 P.C. Station 240+69.42 N 2,044,953.4503 E 2,580,299.1993  
 P.T. Station 243+59.47 N 2,044,944.6076 E 2,580,589.0721  
 C.C. N 2,039,953.4558 E 2,580,291.7447

Course from PT 1210 to PC 1220 S 86° 35' 27.2218" E Dist 954.7663'

Curve Data

Curve 1220  
 P.I. Station 254+26.47 N 2,044,881.1580 E 2,581,654.1920  
 Delta = 6° 25' 27.2537" (RT)  
 Degree = 2° 51' 53.2403"  
 Tangent = 112.2417'  
 Length = 224.2482'  
 Radius = 2,000.0000'  
 External = 3.1471'  
 Long Chord = 224.1307'  
 Mid. Ord. = 3.1421'  
 P.C. Station 253+14.23 N 2,044,887.8325 E 2,581,542.1489  
 P.T. Station 255+38.48 N 2,044,861.9890 E 2,581,764.7847  
 C.C. N 2,042,891.3717 E 2,581,423.2188

Curve Data

Curve 1230  
 P.I. Station 256+50.57 N 2,044,842.8470 E 2,581,875.2220  
 Delta = 6° 24' 54.9976" (LT)  
 Degree = 2° 51' 53.2403"  
 Tangent = 112.0848'  
 Length = 223.9354'  
 Radius = 2,000.0000'  
 External = 3.1383'  
 Long Chord = 223.8185'  
 Mid. Ord. = 3.1334'  
 P.C. Station 255+38.48 N 2,044,861.9892 E 2,581,764.7838  
 P.T. Station 257+62.42 N 2,044,836.1644 E 2,581,987.1074  
 C.C. N 2,046,832.6065 E 2,582,106.3498

Course from PT 1230 to PC 1240 S 86° 34' 54.9525" E Dist 265.6708'

Curve 1240  
 P.I. Station 261+75.01 N 2,044,811.5650 E 2,582,398.9680  
 Delta = 8° 24' 10.8614" (LT)  
 Degree = 2° 51' 53.2403"  
 Tangent = 146.9238'  
 Length = 293.3206'  
 Radius = 2,000.0000'  
 External = 5.3894'  
 Long Chord = 293.0578'  
 Mid. Ord. = 5.3749'  
 P.C. Station 260+28.09 N 2,044,820.3248 E 2,582,252.3056  
 P.T. Station 263+21.41 N 2,044,824.3318 E 2,582,545.3360  
 C.C. N 2,046,816.7669 E 2,582,371.5480

Curve Data

Curve 1250  
 P.I. Station 264+67.58 N 2,044,837.0330 E 2,582,690.9520  
 Delta = 8° 21' 36.4911" (RT)  
 Degree = 2° 51' 53.2403"  
 Tangent = 146.1713'  
 Length = 291.8238'  
 Radius = 2,000.0000'  
 External = 5.3344'  
 Long Chord = 291.5650'  
 Mid. Ord. = 5.3202'  
 P.C. Station 263+21.41 N 2,044,824.3316 E 2,582,545.3336  
 P.T. Station 266+13.23 N 2,044,828.4273 E 2,582,836.8698  
 C.C. N 2,042,831.8965 E 2,582,719.1216

Course from PT 1250 to 86 S 86° 37' 29.3228" E Dist 707.7358'

Point 86 N 2,044,786.7600 E 2,583,543.3780 Sta 273+20.97

Course from 86 to 35 S 0° 45' 15.7487" E Dist 20.0517'

Point 35 N 2,044,766.7100 E 2,583,543.6420 Sta 273+41.02

Course from 35 to PC 1330 S 86° 37' 29.4675" E Dist 163.3651'

Curve Data

Curve 1330  
 P.I. Station 276+29.56 N 2,044,749.7230 E 2,583,831.6760  
 Delta = 25° 04' 08.1234" (RT)  
 Degree = 10° 10' 36.7329"  
 Tangent = 125.1694'  
 Length = 246.3323'  
 Radius = 563.0000'  
 External = 13.7464'  
 Long Chord = 244.3722'  
 Mid. Ord. = 13.4187'  
 P.C. Station 275+04.39 N 2,044,757.0921 E 2,583,706.7237  
 P.T. Station 277+50.72 N 2,044,690.1047 E 2,583,941.7353  
 C.C. N 2,044,195.0687 E 2,583,673.5780

Course from PT 1330 to PC 1260 S 61° 33' 21.3442" E Dist 531.1949'

Curve Data

Curve 1260  
 P.I. Station 285+13.03 N 2,044,327.0160 E 2,584,612.0210  
 Delta = 53° 03' 13.8393" (RT)  
 Degree = 12° 22' 29.6342"  
 Tangent = 231.1150'  
 Length = 428.7215'  
 Radius = 463.0000'  
 External = 54.4777'  
 Long Chord = 413.5685'  
 Mid. Ord. = 48.7425'  
 P.C. Station 282+81.91 N 2,044,437.0962 E 2,584,408.8056  
 P.T. Station 287+10.64 N 2,044,098.4409 E 2,584,646.1903  
 C.C. N 2,044,029.9884 E 2,584,188.2784

Course from PT 1260 to PC 1270 S 8° 30' 07.5049" E Dist 430.1752'

Curve Data

Curve 1270  
 P.I. Station 293+74.56 N 2,043,441.8090 E 2,584,744.3490  
 Delta = 53° 34' 31.0659" (LT)  
 Degree = 12° 22' 29.6342"  
 Tangent = 233.7529'  
 Length = 432.9352'  
 Radius = 463.0000'  
 External = 55.6612'  
 Long Chord = 417.3344'  
 Mid. Ord. = 49.6878'  
 P.C. Station 291+40.81 N 2,043,672.9930 E 2,584,709.7897  
 P.T. Station 295+73.75 N 2,043,332.3475 E 2,584,950.8885  
 C.C. N 2,043,741.4454 E 2,585,167.7016

Course from PT 1270 to 97 S 62° 04' 38.5708" E Dist 898.2205'

Point 97 N 2,042,911.7300 E 2,585,744.5390 Sta 304+71.97

Ending chain B20 description

**CURVE POINT NUMBERS**

CHAIN	CURVE	PI	CC	PC	PT
B20	300	300	301	302	303
B20	310	310	311	312	313
B20	320	320	321	322	323
B20	330	330	331	332	333
B20	1200	1200	1201	1202	1203
B20	1210	1210	1211	1212	1213
B20	1220	1220	1221	1222	1223
B20	1230	1230	1231	1232	1233
B20	1240	1240	1241	1242	1243
B20	1250	1250	1251	1252	1253
B20	1330	1330	1331	1332	1333
B20	1260	1260	1261	1262	1263
B20	1270	1270	1271	1272	1273

**BENCHMARKS**

MARK	DESCRIPTION	Easting	Northing	Height

McDonough Associates Inc.  
 Engineers / Architects  
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME =	USER NAME = dossed	DESIGNED - JWM	REVISED -
ct:\pw\work\p\dot\dossed\dms67949\0264750-sh-t-HVC-(pgs37-47).dgn		DRAWN - JWM	REVISED -
PLOT SCALE = 48.0000' / in.		CHECKED - RCH	REVISED -
PLOT DATE = Mon Dec 17 13:20:21 2012		DATE - \$SUBDATE\$	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**ALIGNMENT, TIES, AND BENCHMARKS**

SCALE: SHEET NO. 5 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	41R	WINNEBAGO	327	41
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64750	