CONTRACT NO. 64B27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	*	JODAVIESS	45	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (10BR-31D & 11BR-8

EXISTING HORIZONTAL AND VERTICAL CONTROL

HORIZONTAL CONTROL POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	1997911.6369	2345446.8475	643.3290	EXIL78	842+82.5479	29.6797' LT	108
10	2071986.5189	2335468.7378	1079.2100	EXIL78	631+74.3047	4339.8801' LT	108
29	2034703.2863	2331364.7568	695.3960	EXIL78	231+17.5461	201.1847' LT	108
31	2012576.0958	2342622.4698	861.0480	EXIL78	1006+86.8417	28.2775' LT	108
90	1975376.4564	2347921.0162	797.4100	EXIL78	647+64.8279	5143.8811' LT	108

SURVEY WORK POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
127	2014465.0804	2341026.3453	0.0000	EXIL78	1+76.7182	21.4287' LT	SURVEY POINT
128	2019539.8183	2337078.1349	0.0000	EXIL78	66+06.5372	16.9984' LT	SURVEY POINT
137	2040801.1673	2332311.1225	0.0000	EXIL78	297+16.2328	13.5183' RT	SURVEY POINT
138	2041891.4331	2332887.2498	0.0000	EXIL78	309+47.8349	16.7900' LT	SURVEY POINT
139	2043298.4721	2334035.8037	0.0000	EXIL78	327+70.1124	15.1890' RT	SURVEY POINT
140	2044517.1746	2334422.2735	0.0000	EXIL78	340+45.4205	29.4412' LT	SURVEY POINT

Chain EXIL78 contains:
210 CUR 1200 CUR 1210 CUR 1220 CUR 1230 CUR 1240 CUR 1250 CUR 1260 CUR 1270 CU-
R 1280 CUR 1290 CUR 1300 CUR 1310 CUR 1320 CUR 1330 CUR 1340 CUR 1350 CUR 1360 -
CUR 1370 CUR 1380 CUR 1390 CUR 1400 CUR 1410 CUR 1420 CUR 1430 CUR 1440 CUR 145-
0 CUR 1460 CUR 1470 1473 CUR 1480 269 270 CUR 1510 273 CUR 1530 276 CUR 1550 27-
9 CUR 1570 282 CUR 1590 CUR 1600 CUR 1610 CUR 1620 CUR 1630 CUR 1640 294 CUR 16-
60 CUR 1670 299 CUR 1700 CUR 1710 CUR 1720 CUR 1730 310 311 312 313 31-
4 CUR 1790 CUR 1800 319

Beginning chain EXIL78 description
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Point 210 N 1,979,741.9831 E 2,347,841.0376 Sta 636+75.2910

Course from 210 to PC 1200 0° 54' 38.8674" Dist 607.4086'

Curve Data

Curve 1470
P.I. Station 1029+52.0827 N 2,014,234.6450 E 2,341,241.6868
Delta = 1° 37' 14.2365" (RT)
Degree = 0° 35' 19.0379"
Tangent = 137.6716'
Length = 275.3248'
Radius = 9,733.8897'
External = 0.9735'
Long Chord = 275.3156'
Mid. Ord. = 0.9734'
S. E. = 0.000
P.C. Station 1028+14.4111 N 2,014,130.8662 E 2,341,332.1492
P.T. Station 1030+89.7359 N 2,014,340.9406 E 2,341,154.1957
C.C. N 2,020,526.8892 E 2,348,669.6895

Equation: Sta 1030+89.7359 (BK) = Sta 0+00.0000 (AH) ---------- End Region 1
Begin Region 2

Point 1473 N 2,014,340.9406 E 2,341,154.1957 Sta 0+00.0000

Curve Data

Curve 1480
P.I. Station 1+51.3310 N 2,014,457.7825 E 2,341,058.0239
Delta = 1° 46' 52.9729" (RT)
Degree = 0° 35' 19.0277"
Tangent = 1[illegible].3309'
Length = 302.6375'
Radius = 9,733.9362'
External = 1.[illegible]763'
Long Chord = 302.6253'
Mid. Ord. = 1.[illegible]761'
S. E. = 0.000
P.C. Station 0+00.0000 N 2,014,340.9406 E 2,341,154.1957
P.T. Station 3+02.6375 N 2,014,577.5576 E 2,340,965.5307
C.C. N 2,020,526.9188 E 2,348,669.7255

Course from PT 1480 to 269 322° 19' 25.7963" Dist 1,024.8645'

Point 269 N 2,015,388.7152 E 2,340,339.1357 Sta 13+27.5021

Course from 269 to 270 322° 15' 06.2685" Dist 802.6215'

Point 270 N 2,016,023.3546 E 2,339,847.7763 Sta 21+30.1235

Course from 270 to PC 1510 322° 17' 57.6998" Dist 2,288.3665'

Curve Data

Curve 1510
P.I. Station 48+57.0351 N 2,018,180.9326 E 2,338,180.1720
Delta = 0° 45' 57.1840" (LT)
Degree = 0° 05' 14.3605"
Tangent = 438.5450'
Length = 877.0770'
Radius = 65,614.0909'
External = 1.4655'
Long Chord = 877.0705'
Mid. Ord. = 1.4655'
S. E. = 0.000
P.C. Station 44+18.4901 N 2,017,833.9484 E 2,338,448.3581
P.T. Station 52+95.5671 N 2,018,524.3010 E 2,337,907.3719
C.C. N 1,977,708.5787 E 2,286,533.3927

Course from PT 1510 to 273 321° 32' 00.5158" Dist 699.1796'

Point 273 N 2,019,071.7388 E 2,337,472.4422 Sta 59+94.7467

Course from 273 to PC 1530 321° 28' 51.4610" Dist 3,534.3654'

Curve Data

Curve 1530
P.I. Station 97+73.0837 N 2,022,027.9145 E 2,335,119.3896
Delta = 26° 58' 46.8240" (RT)
Degree = 5° 38' 01.4947"
Tangent = 243.9717'
Length = 478.8938'
Radius = 1,017.0099'
External = 28.8540'
Long Chord = 474.4816'
Mid. Ord. = 28.0580'
S. E. = 0.000
P.C. Station 95+29.1121 N 2,021,837.0307 E 2,335,271.3290
P.T. Station 100+08.0059 N 2,022,266.9549 E 2,335,070.5852
C.C. N 2,022,470.3987 E 2,336,067.0388

Course from PT 1530 to 276 348° 27' 38.2850" Dist 591.8503'

Point 276 N 2,022,846.8425 E 2,334,952.1908 Sta 105+99.8562

Course from 276 to PC 1550 348° 13' 51.7816" Dist 627.1230'

Curve Data

Curve 1690
P.I. Station 309+47.5380 N 2,041,888.6020 E 2,332,888.8603
Delta = 13° 19' 47.6819" (RT)
Degree = 2° 49' 00.7198"
Tangent = 237.6819'
Length = 473.2177'
Radius = 2,034.0253'
External = 13.8398'
Long Chord = 472.1512'
Mid. Ord. = 13.7463'
S. E. = 0.000
P.C. Station 307+09.8561 N 2,041,679.9413 E 2,332,775.0473
P.T. Station 311+83.0738 N 2,042,065.4006 E 2,333,047.7153
C.C. N 2,040,705.9566 E 2,334,560.7160

Course from PT 1690 to PC 1700 41° 56' 23.8786" Dist 1,126.5395'

Curve Data

Curve 1700
P.I. Station 325+24.5959 N 2,043,063.2859 E 2,333,944.3238
Delta = 24° 08' 10.5258" (LT)
Degree = 5° 41' 52.9777"
Tangent = 214.9827'
Length = 423.5881'
Radius = 1,005.5332'
External = 22.7248'
Long Chord = 420.4630'
Mid. Ord. = 22.2226'
S. E. = 0.000
P.C. Station 323+09.6133 N 2,042,903.3720 E 2,333,800.6398
P.T. Station 327+33.2013 N 2,043,267.9729 E 2,334,010.0562
C.C. N 2,043,575.4217 E 2,333,052.6784

Course from PT 1700 to PC 1710 17° 48' 13.3528" Dist 914.0343'

Curve Data

Curve 1710
P.I. Station 339+82.5342 N 2,044,457.4747 E 2,334,392.0484
Delta = 18° 58' 37.4021" (RT)
Degree = 2° 51' 21.7132"
Tangent = 335.2986'
Length = 664.4554'
Radius = 2,006.1327'
External = 27.8274'
Long Chord = 661.4224'
Mid. Ord. = 27.4466'
S. E. = 0.000
P.C. Station 336+47.2356 N 2,044,138.2337 E 2,334,289.5286
P.T. Station 343+11.6911 N 2,044,726.0262 E 2,334,592.8100
C.C. N 2,043,524.8448 E 2,336,199.5867

Course from PT 1710 to PC 1720 36° 46' 50.7549" Dist 713.8902'

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Ending chain EXIL78 description

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

PLOT DATE = Fri Dec 30 09:02:31 2005
FILE NAME = a:\projects\p20080\sht20080-1.dgn
PLOT SCALE = 20.0000 ' / IN.
USER NAME = reginot