

HORIZONTAL & VERTICAL CONTROL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	116 RS-1	OGLE		30
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
401	1989645.7350	2457267.5590	925.6180	EXIL72	380+38.7533	29.3864' RT	HEADWALL : CHISELED SQUARE
402	1989797.4480	2459569.0050	918.2100	EXIL72	403+55.2388	27.0720' LT	HEADWALL : CHISELED SQUARE
403	1989764.3500	2460497.2940	913.5510	EXIL72	412+82.5338	27.1491' RT	HEADWALL : CHISELED SQUARE
404	1989752.9270	2463070.0710	881.9600	EXIL72	438+54.3840	97.1362' RT	HANDRAIL, CHISELED SQUARE
405	1989902.1450	2466278.4860	945.6970	EXIL72	470+65.3873	20.8285' RT	HEADWALL : CHISELED SQUARE
406	1989999.4420	2468147.5210	918.6760	EXIL72	489+35.9952	39.8081' LT	POWER POLE, RR SPIKE
407	1990025.6030	2470203.7370	880.7400	EXIL72	509+92.3354	26.6277' LT	HEADWALL : CHISELED SQUARE
408	1990028.8410	2473195.3650	861.9700	EXIL72	539+83.4779	27.3666' RT	HEADWALL : CHISELED SQUARE
409	1990107.4270	2474829.0270	829.5160	EXIL72	556+18.3443	19.9520' LT	HEADWALL : CHISELED SQUARE
410	1990128.1460	2477834.4410	765.7460	EXIL72	586+23.6047	16.8282' RT	HANDRAIL, PERM. SURVEY MARKER
411	1990209.3820	2479266.6650	802.8890	EXIL72	600+57.1207	36.9936' LT	POWER POLE, RR SPIKE
412	1990274.0280	2482518.4900	783.9160	EXIL72	633+09.7470	38.5566' LT	POWER POLE, RR SPIKE
413	1990269.8970	2485111.1680	761.9740	EXIL72	659+01.4426	38.9376' RT	R.O.W. MARKER, TOP
414	1990390.5730	2486401.7230	747.5870	EXIL72	671+91.2085	58.0422' LT	HEADWALL : CHISELED SQUARE
415	1990087.9360	2489469.6370	726.5110	EXIL72	702+72.6475	29.1560' RT	HEADWALL : CHISELED SQUARE
416	1989906.9620	2490166.2200	745.5560	EXIL72	709+98.6473	12.8030' LT	GUTTER, OUTLET, CHISELED SQUARE
417	1988806.3730	2492072.6270	722.4820	EXIL72	732+57.8104	101.0138' LT	WING
418	1988389.5960	2493728.5660	718.7750	EXIL72	749+64.3956	28.0740' RT	HEADWALL : CHISELED SQUARE
419	1987793.4100	2497268.7690	717.4200	EXIL72	785+54.4311	17.1221' RT	HANDRAIL, PERM. SURVEY MARKER
420	1990027.1780	2469281.8130	894.3680	EXIL72	500+70.6103	45.8394' LT	VERTICAL CONTROL STATION
421	1990134.6420	2472892.5870	866.2150	EXIL72	536+82.7793	84.2073' LT	VERTICAL CONTROL STATION
423	1990231.6490	2483890.3730	755.4740	EXIL72	646+80.0521	41.8465' RT	VERTICAL CONTROL STATION
424	1990298.6770	2489044.2310	725.9140	EXIL72	698+32.0112	148.8630' LT	VERTICAL CONTROL STATION
425	1987870.5880	2497315.6390	709.5230	EXIL72	OUT OF CHAIN	-----	VERTICAL CONTROL STATION

Curve Data

Curve 220
P.I. Station 633+90.4580 N 1,990,236.1640 E 2,482,600.1000
Delta = 0° 33' 42.7860" (LT)
Degree = 0° 03' 22.2861"
Tangent = 499.9855'
Length = 999.9631'
Radius = 101,966.8859'
External = 1.2258'
Long Chord = 999.9591'
Mid. Ord. = 1.2258'
P.C. Station 628+90.4724 N 1,990,226.5990 E 2,482,100.2060
P.T. Station 638+90.4355 N 1,990,250.6308 E 2,483,099.8762
C.C. N 2,092,174.8242 E 2,480,149.5160

Course from PT 220 to PC 230 88° 20' 30.9992" Dist 2,913.0615'

Curve Data

Curve 230
P.I. Station 670+77.9519 N 1,990,342.8600 E 2,486,286.0580
Delta = 5° 40' 09.2833" (RT)
Degree = 1° 02' 01.1857"
Tangent = 274.4549'
Length = 548.4618'
Radius = 5,542.9861'
External = 6.7905'
Long Chord = 548.2381'
Mid. Ord. = 6.7822'
P.C. Station 668+03.4970 N 1,990,334.9188 E 2,486,011.7180
P.T. Station 673+51.9588 N 1,990,323.6615 E 2,486,559.8406
C.C. N 1,984,794.2534 E 2,486,172.1015

Course from PT 230 to PC 240 94° 00' 40.2826" Dist 2,823.3104'

Curve Data

Curve 240
P.I. Station 707+93.1037 N 1,990,082.9490 E 2,489,992.5560
Delta = 35° 54' 29.0905" (RT)
Degree = 3° 00' 17.8861"
Tangent = 617.8344'
Length = 1,194.9570'
Radius = 1,906.7016'
External = 97.6014'
Long Chord = 1,175.4968'
Mid. Ord. = 92.8486'
P.C. Station 701+75.2692 N 1,990,126.1673 E 2,489,376.2350
P.T. Station 713+70.2263 N 1,989,686.4799 E 2,490,466.4037
C.C. N 1,988,224.1364 E 2,489,242.8588

Course from PT 240 to PC 250 129° 55' 09.3731" Dist 771.9331'

Curve Data

Curve 250
P.I. Station 727+59.6378 N 1,988,794.8840 E 2,491,532.0120
Delta = 30° 11' 07.1184" (LT)
Degree = 2° 30' 08.5987"
Tangent = 617.4784'
Length = 1,206.2599'
Radius = 2,289.6436'
External = 81.8006'
Long Chord = 1,192.3582'
Mid. Ord. = 78.9789'
P.C. Station 721+42.1594 N 1,989,191.1246 E 2,491,058.4373
P.T. Station 733+48.4193 N 1,988,690.4847 E 2,492,140.6008
C.C. N 1,990,947.1653 E 2,492,527.7191

Course from PT 250 to 3022 99° 44' 02.2547" Dist 5,228.2663'

Point 3022 N 1,987,806.5230 E 2,497,293.5980 Sta 785+76.6856

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Ending chain EXIL72 description

Chain EXIL72 contains:

7004 CUR 200 CUR 210 CUR 220 CUR 230 CUR 240 CUR 250 3022

Beginning chain EXIL72 description

Point 7004 N 1,989,126.3830 E 2,456,091.3840 Sta 367+48.8005

Course from 7004 to PC 200 64° 20' 14.5838" Dist 1,123.3149'

Curve Data

Curve 200
P.I. Station 381+17.8576 N 1,989,719.2820 E 2,457,325.3970
Delta = 24° 21' 29.5725" (RT)
Degree = 5° 01' 55.4541"
Tangent = 245.7421'
Length = 484.0595'
Radius = 1,138.6124'
External = 26.2169'
Long Chord = 480.4224'
Mid. Ord. = 25.6269'
P.C. Station 378+72.1155 N 1,989,612.8582 E 2,457,103.8949
P.T. Station 383+56.1749 N 1,989,724.8761 E 2,457,571.0755
C.C. N 1,988,586.5588 E 2,457,596.9950

Course from PT 200 to PC 210 88° 41' 44.1563" Dist 8,407.7853'

Curve Data

Curve 210
P.I. Station 472+63.9578 N 1,989,927.6540 E 2,466,476.5500
Delta = 0° 12' 29.6290" (RT)
Degree = 0° 01' 14.9633"
Tangent = 499.9975'
Length = 999.9940'
Radius = 275,154.2093'
External = 0.4543'
Long Chord = 999.9934'
Mid. Ord. = 0.4543'
P.C. Station 467+63.9603 N 1,989,916.2720 E 2,465,976.6820
P.T. Station 477+63.9542 N 1,989,937.2193 E 2,466,976.4560
C.C. N 1,714,833.3651 E 2,472,240.3272

Course from PT 210 to PC 220 88° 54' 13.7852" Dist 15,126.5182'