

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	OF
		Tazewell	43	16
FED. ROAD DIST. NO. 7		BALANCE		
03-00123-03-BT		FED. AID PROJECT		

CONTRACT # 89302

HORIZONTAL ALIGNMENT DATA 4 OF 6

Curve Data
Curve CL-11
P.I. Station = 53+11.21 N 1,460,610.5005 E 2,457,897.2058
Delta = 17° 19' 21.82" (LT)
Degree = 9° 32' 57.47"
Tangent = 91.3989
Length = 181.4032
Radius = 800.0000
External = 6.9215
Long Chord = 180.7131
Mid. Ord. = 6.8426
P.C. Station = 52+19.81 N 1,460,522.0091 E 2,457,920.0754
P.T. Station = 54+01.22 N 1,460,688.1687 E 2,457,849.0249
C.C. = N 14° 29' 25.43" W 1,460,371.8784 E 2,457,339.1616
Back = N 31° 48' 47.25" W
Ahead = N 23° 09' 06.34" W

Course from PT CL-11 to 20015 N 31° 48' 47.25" W Dist 100.4277
Point 20015 N 1,460,773.5094 E 2,457,796.0844 Sta 55+01.64
Course from 20015 to 20016 N 31° 58' 01.79" W Dist 100.0910
Point 20016 N 1,460,858.3454 E 2,457,743.1405 Sta 56+01.65
Course from 20016 to 20017 N 30° 50' 38.46" W Dist 100.0118
Point 20017 N 1,460,944.2122 E 2,457,691.8642 Sta 57+01.66
Course from 20017 to 20018 N 31° 18' 56.66" W Dist 100.0026
Point 20018 N 1,461,029.6460 E 2,457,639.8875 Sta 58+01.66
Course from 20018 to 20019 N 31° 26' 24.86" W Dist 100.0013
Point 20019 N 1,461,114.9655 E 2,457,587.7259 Sta 59+01.66
Course from 20019 to 20020 N 30° 32' 02.63" W Dist 100.0210
Point 20020 N 1,461,201.1163 E 2,457,536.9102 Sta 60+01.68
Course from 20020 to 20021 N 31° 53' 42.48" W Dist 100.0011
Point 20021 N 1,461,286.0189 E 2,457,484.0730 Sta 61+01.68
Course from 20021 to 20022 N 32° 24' 07.79" W Dist 100.0772
Point 20022 N 1,461,370.5148 E 2,457,430.4458 Sta 62+01.76
Course from 20022 to 20023 N 37° 18' 42.95" W Dist 100.5009
Point 20023 N 1,461,450.4479 E 2,457,369.5268 Sta 63+02.26
Course from 20023 to 20024 N 38° 54' 38.35" W Dist 100.1661
Point 20024 N 1,461,528.3898 E 2,457,306.6117 Sta 64+02.43
Course from 20024 to 20025 N 44° 33' 51.07" W Dist 100.0868
Point 20025 N 1,461,599.6982 E 2,457,236.3800 Sta 65+02.51
Course from 20025 to 20026 N 50° 02' 02.22" W Dist 99.8806
Point 20026 N 1,461,663.8548 E 2,457,159.8290 Sta 66+02.39
Course from 20026 to 20027 N 51° 49' 37.63" W Dist 99.5708
Point 20027 N 1,461,725.3932 E 2,457,081.5514 Sta 67+01.97
Course from 20027 to PC CL-12 N 54° 29' 02.84" W Dist 120.8377

Curve Data
Curve CL-12
P.I. Station = 68+36.48 N 1,461,803.5375 E 2,456,972.0613
Delta = 30° 36' 01.34" (RT)
Degree = 114° 35' 29.61"
Tangent = 13.6786
Length = 26.7039
Radius = 50.0000
External = 1.8373
Long Chord = 26.3876
Mid. Ord. = 1.7722
P.C. Station = 68+22.80 N 1,461,795.5912 E 2,456,983.1950
P.T. Station = 68+49.51 N 1,461,816.0449 E 2,456,966.5230
C.C. = N 54° 29' 02.84" W 1,461,836.2890 E 2,457,012.2415
Back = N 23° 53' 01.50" W
Ahead = N 39° 11' 02.17" W

Course from PT CL-12 to 21003 N 23° 53' 01.50" W Dist 2.9034
Equation: Sta 68+52.41 (BK) = Sta 68+50.00 (AH)
End Region 2
Begin Region 3

HORIZONTAL ALIGNMENT DATA 5 OF 6

Point 21003 N 1,461,818.6996 E 2,456,965.3475 Sta 68+50.00
Course from 21003 to 20028 N 23° 53' 01.49" W Dist 0.0013
Point 20028 N 1,461,818.7007 E 2,456,965.3470 Sta 68+50.00
Course from 20028 to 20029 N 23° 53' 01.50" W Dist 49.5045
Point 20029 N 1,461,863.9661 E 2,456,945.3035 Sta 68+99.51
Course from 20029 to 20030 N 23° 53' 01.50" W Dist 211.4996
Point 20030 N 1,462,057.3548 E 2,456,859.6711 Sta 71+11.01
Course from 20030 to 20031 N 23° 53' 01.50" W Dist 7.6434
Point 20031 N 1,462,064.3437 E 2,456,856.5764 Sta 71+18.65
Course from 20031 to 20032 N 31° 58' 36.10" W Dist 63.8614
Point 20032 N 1,462,118.5150 E 2,456,822.7570 Sta 71+82.51
Course from 20032 to 20033 N 32° 44' 10.72" W Dist 88.9097
Point 20033 N 1,462,193.3030 E 2,456,774.6770 Sta 72+71.42
Course from 20033 to PC CL-13 N 38° 26' 51.03" W Dist 43.5325

Curve Data
Curve CL-13
P.I. Station = 73+22.08 N 1,462,232.9825 E 2,456,743.1738
Delta = 8° 35' 13.12" (LT)
Degree = 60° 18' 40.85"
Tangent = 7.1322
Length = 14.2377
Radius = 95.0000
External = 0.2674
Long Chord = 14.2244
Mid. Ord. = 0.2666
P.C. Station = 73+14.95 N 1,462,227.3967 E 2,456,747.6086
P.T. Station = 73+29.19 N 1,462,237.8435 E 2,456,737.9547
C.C. = N 38° 26' 51.04" W 1,462,168.3259 E 2,456,673.2067
Back = N 47° 02' 04.15" W
Ahead = N 42° 44' 27.59" W
Chord Bear = N 42° 44' 27.59" W

Course from PT CL-13 to PC CL-14 N 47° 02' 04.15" W Dist 44.4160
Curve Data
Curve CL-14
P.I. Station = 73+55.41 N 1,462,274.7979 E 2,456,698.2782
Delta = 11° 47' 04.55" (RT)
Degree = 60° 18' 40.85"
Tangent = 9.8044
Length = 19.5396
Radius = 95.0000
External = 0.5046
Long Chord = 19.5052
Mid. Ord. = 0.5019
P.C. Station = 73+73.61 N 1,462,268.1156 E 2,456,705.4527
P.T. Station = 73+93.15 N 1,462,282.8045 E 2,456,682.6196
C.C. = N 47° 02' 04.15" W 1,462,337.6332 E 2,456,776.2007
Back = N 35° 14' 59.60" W
Ahead = N 41° 08' 31.87" W
Chord Bear = N 41° 08' 31.87" W

Course from PT CL-14 to 20034 N 35° 14' 59.60" W Dist 22.3666
Point 20034 N 1,462,301.0701 E 2,456,679.7109 Sta 74+15.51
Course from 20034 to 20035 N 25° 46' 30.58" W Dist 6.0770
Point 20035 N 1,462,306.5424 E 2,456,677.0683 Sta 74+21.59
Course from 20035 to 20036 N 35° 14' 59.56" W Dist 3.8282
Point 20036 N 1,462,309.6687 E 2,456,674.8589 Sta 74+25.42
Course from 20036 to 20037 N 44° 42' 43.92" W Dist 6.0850
Point 20037 N 1,462,313.9930 E 2,456,670.5779 Sta 74+31.50
Course from 20037 to PC CL-15 N 35° 14' 59.29" W Dist 46.7059

HORIZONTAL ALIGNMENT DATA 6 OF 6

Curve Data
Curve CL-15
P.I. Station = 75+13.70 N 1,462,380.7858 E 2,456,622.6768
Delta = 1° 47' 22.31" (RT)
Degree = 2° 31' 16.89"
Tangent = 35.4903
Length = 70.9749
Radius = 2,272.4167
External = 0.2771
Long Chord = 70.9720
Mid. Ord. = 0.2771
P.C. Station = 74+78.21 N 1,462,352.1351 E 2,456,643.6219
P.T. Station = 75+49.18 N 1,462,410.0767 E 2,456,602.6366
C.C. = N 36° 10' 07.08" W 1,463,693.2332 E 2,458,478.1065
Back = N 34° 22' 44.77" W
Ahead = N 19° 23' 37.00" W
Chord Bear = N 35° 16' 25.92" W


Curve Data
Curve CL-16
P.I. Station = 75+76.60 N 1,462,432.7026 E 2,456,587.1565
Delta = 29° 58' 15.54" (RT)
Degree = 55° 56' 37.63"
Tangent = 27.4147
Length = 53.5734
Radius = 102.4167
External = 3.6057
Long Chord = 52.9647
Mid. Ord. = 3.4831
P.C. Station = 75+49.18 N 1,462,410.0767 E 2,456,602.6366
P.T. Station = 76+02.76 N 1,462,460.0361 E 2,456,585.0494
C.C. = N 34° 22' 44.77" W 1,462,467.9079 E 2,456,687.1631
Back = N 4° 24' 29.22" W
Ahead = N 19° 23' 37.00" W
Chord Bear = N 19° 23' 37.00" W

Course from PT CL-16 to 20038 N 6° 53' 49.92" E Dist 5.8462
Point 20038 N 1,462,465.8400 E 2,456,585.7515 Sta 76+08.60
Course from 20038 to 20039 N 0° 08' 55.00" W Dist 3.6155
Point 20039 N 1,462,469.4555 E 2,456,585.7421 Sta 76+12.22
Course from 20039 to PC CL-17 N 7° 11' 25.26" W Dist 5.8461

Curve Data
Curve CL-17
P.I. Station = 76+20.52 N 1,462,477.7070 E 2,456,585.1867
Delta = 2° 44' 57.94" (RT)
Degree = 55° 56' 37.63"
Tangent = 2.4578
Length = 4.9146
Radius = 102.4167
External = 0.0295
Long Chord = 4.9142
Mid. Ord. = 0.0295
P.C. Station = 76+18.06 N 1,462,475.2556 E 2,456,585.0103
P.T. Station = 76+22.98 N 1,462,480.1472 E 2,456,585.4804
C.C. = N 4° 06' 50.74" E 1,462,467.9079 E 2,456,687.1631
Back = N 6° 51' 48.68" E
Ahead = N 5° 29' 19.71" E
Chord Bear = N 5° 29' 19.71" E

Course from PT CL-17 to 20040 N 83° 08' 10.84" W Dist 31.5848
Point 20040 N 1,462,483.9218 E 2,456,554.1219 Sta 76+54.56
Course from 20040 to 20041 N 36° 39' 56.64" W Dist 105.8843
Point 20041 N 1,462,568.8551 E 2,456,490.8936 Sta 77+60.45
Course from 20041 to 20042 S 57° 57' 34.57" W Dist 127.9336
Point 20042 N 1,462,500.9841 E 2,456,382.4476 Sta 78+88.38
Course from 20042 to 20043 N 85° 32' 55.74" W Dist 7.4420
Point 20043 N 1,462,501.5617 E 2,456,375.0280 Sta 78+95.82
Ending chain CL description

HORIZONTAL ALIGNMENT DATA
SHEET 2 OF 2
BIKE TRAIL OVER FARM CREEK
SECTION 03-00123-03-BT
TAZEWELL COUNTY

DESIGNED	RMB	 RANDOLPH & ASSOCIATES, INC. 111 W. PENDER STREET, DEERFIELD, IL 60015-2124 TEL: 847-940-2000 FAX: 847-940-2001 WWW.RANDOLPH-ASSOCIATES.COM	FILE NUMBER
CHECKED	CWB		56.46
DRAWN	RMB		DATE
CHECKED	CWB		August 2003

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