

CURVE EAST FRONTAGE ROAD - 1

P.I. STATION 8015+77.77 N 1,721,300.94 E 1,022,902.01
 DELTA = 36° 00' 38" (RT)
 DEGREE = 5° 21' 17"
 RADIUS = 1,070.00'
 TANGENT = 347.77'
 LENGTH = 672.50'
 EXTERNAL = 55.10'
 LONG CHORD = 661.49'
 MID. ORD. = 52.40'
 S.E. RATE = 6.00%
 S.E. IN = STA. 8010+86.00 TO STA. 8012+78.00
 P.C. STATION 8012+30.00 N 1,720,953.18 E 1,022,905.23
 P.C.C. STATION 8019+02.50 N 1,721,584.14 E 1,023,103.87

CURVE EAST FRONTAGE ROAD - 2

P.I. STATION 8020+36.36 N 1,721,693.13 E 1,023,181.57
 DELTA = 18° 12' 55" (RT)
 DEGREE = 6° 51' 42"
 RADIUS = 835.00'
 TANGENT = 133.86'
 LENGTH = 265.46'
 EXTERNAL = 10.66'
 LONG CHORD = 264.34'
 MID. ORD. = 10.53'
 S.E. RATE = 6.00%
 S.E. OUT = STA. 8021+19.96 TO STA. 8023+11.96
 P.C.C. STATION 8019+02.50 N 1,721,584.14 E 1,023,103.87
 P.T. STATION 8021+67.96 N 1,721,772.39 E 1,023,289.44

CURVE EAST FRONTAGE ROAD - 3

P.I. STATION 8029+34.94 N 1,722,226.49 E 1,023,907.54
 DELTA = 29° 28' 24" (LT)
 DEGREE = 6° 09' 39"
 RADIUS = 930.00'
 TANGENT = 244.62'
 LENGTH = 478.40'
 EXTERNAL = 31.63'
 LONG CHORD = 473.14'
 MID. ORD. = 30.59'
 S.E. RATE = 6.00%
 S.E. IN = STA. 8025+46.32 TO STA. 8027+38.32
 P.C. STATION 8026+90.32 N 1,722,081.66 E 1,023,710.41
 P.C.C. STATION 8031+68.72 N 1,722,449.57 E 1,024,007.90

CURVE EAST FRONTAGE ROAD - 4

P.I. STATION 8036+46.89 N 1,722,885.64 E 1,024,204.09
 DELTA = 70° 09' 0" (LT)
 DEGREE = 8° 24' 48"
 RADIUS = 681.00'
 TANGENT = 478.17'
 LENGTH = 833.78'
 EXTERNAL = 151.11'
 LONG CHORD = 782.67'
 MID. ORD. = 123.67'
 S.E. RATE = 6.00%
 S.E. OUT = STA. 8039+57.50 TO STA. 8041+37.50
 P.C.C. STATION 8031+68.72 N 1,722,449.57 E 1,024,007.90
 P.T. STATION 8040+02.50 N 1,723,218.25 E 1,023,860.54

CURVE EAST FRONTAGE ROAD - 5

P.I. STATION 8045+60.84 N 1,723,606.61 E 1,023,459.40
 DELTA = 29° 37' 15" (RT)
 DEGREE = 11° 14' 04"
 RADIUS = 510.00'
 TANGENT = 134.85'
 LENGTH = 263.66'
 EXTERNAL = 17.53'
 LONG CHORD = 260.73'
 MID. ORD. = 16.94'
 S.E. RATE = 6.00%
 S.E. IN = STA. 8042+99.99 TO STA. 8044+67.99
 S.E. OUT = STA. 8046+47.65 TO STA. 8048+15.65
 P.C. STATION 8044+25.99 N 1,723,512.82 E 1,023,556.29
 P.T. STATION 8046+89.65 N 1,723,736.03 E 1,023,421.54

CURVE EAST FRONTAGE ROAD - 6

P.I. STATION 8055+18.65 N 1,724,531.68 E 1,023,188.78
 DELTA = 76° 24' 49" (LT)
 DEGREE = 20° 50' 05"
 RADIUS = 275.00'
 TANGENT = 216.46'
 LENGTH = 366.76'
 EXTERNAL = 74.97'
 LONG CHORD = 340.18'
 MID. ORD. = 58.91'
 S.E. RATE = 4.00%
 S.E. IN = STA. 8052+14.19 TO STA. 8053+27.20
 S.E. OUT = STA. 8056+37.79 TO STA. 8057+50.79
 P.C. STATION 8053+02.19 N 1,724,323.93 E 1,023,249.56
 P.T. STATION 8056+68.95 N 1,724,521.41 E 1,022,972.57

CURVE RAMP A - 1

P.I. STATION 7015+27.51 N 1,721,715.77 E 1,022,888.65
 DELTA = 61° 34' 02" (RT)
 DEGREE = 6° 51' 42"
 RADIUS = 835.00'
 TANGENT = 497.44'
 LENGTH = 897.25'
 EXTERNAL = 136.94'
 LONG CHORD = 854.70'
 MID. ORD. = 117.65'
 S.E. RATE = 6.00%
 S.E. IN = STA. 7009+65.58 TO STA. 7010+94.58
 S.E. OUT = STA. 7018+28.07 TO STA. 7020+20.07
 P.C. STATION 7010+30.07 N 1,721,218.51 E 1,022,875.22
 P.T. STATION 7019+27.32 N 1,721,940.72 E 1,023,332.32

CURVE RAMP B - 1

P.I. STATION 3003+31.50 N 1,723,685.69 E 1,022,839.24
 DELTA = 54° 35' 42" (LT)
 DEGREE = 11° 14' 04"
 RADIUS = 510.00'
 TANGENT = 263.20'
 LENGTH = 485.96'
 EXTERNAL = 63.91'
 LONG CHORD = 467.78'
 MID. ORD. = 56.80'
 S.E. RATE = 6.00%
 S.E. IN = STA. 3000+00.00 (START OF ALIGNMENT) TO STA. 3001+79.30
 S.E. OUT = STA. 3004+43.26 TO STA. 3007+76.26
 P.C. STATION 3000+68.30 N 1,723,948.60 E 1,022,826.75
 P.T. STATION 3005+54.26 N 1,723,543.56 E 1,023,060.77

CURVE RAMP B - 2

P.I. STATION 3044+11.55 N 1,724,854.21 E 1,021,018.04
 DELTA = 198° 26' 18" (RT)
 DEGREE = 11° 14' 04"
 RADIUS = 510.00'
 TANGENT = 3,142.16
 LENGTH = 1,766.34
 EXTERNAL = 3,693.28
 LONG CHORD = 1,006.82
 MID. ORD. = 591.71
 S.E. RATE = 6.00%
 S.E. IN = STA. 3011+85.38 TO STA. 3013+53.38
 P.C. STATION 3012+69.38 N 1,723,157.38 E 1,023,662.65
 P.C.C. STATION 3030+35.72 N 1,722,408.03 E 1,022,990.21

CURVE RAMP B - 3

P.I. STATION 3033+17.75 N 1,722,627.59 E 1,022,813.19
 DELTA = 36° 57' 20" (RT)
 DEGREE = 6° 47' 20"
 RADIUS = 843.95'
 TANGENT = 282.03
 LENGTH = 544.37'
 EXTERNAL = 45.88
 LONG CHORD = 534.98'
 MID. ORD. = 43.51
 S.E. RATE = 6.00%
 S.E. OUT = STA. 3034+81.81 TO STA. 3036+73.81
 P.C.C. STATION 3030+35.72 N 1,722,408.03 E 1,022,990.21
 P.T. STATION 3035+80.09 N 1,722,909.47 E 1,022,803.74

CURVE RAMP C - 1

P.I. STATION 2009+97.38 N 1,723,899.63 E 1,022,603.83
 DELTA = 14° 37' 41" (RT)
 DEGREE = 3° 18' 08"
 RADIUS = 1,735.00'
 TANGENT = 222.69'
 LENGTH = 442.96'
 EXTERNAL = 14.23'
 LONG CHORD = 441.75'
 MID. ORD. = 14.12'
 S.E. RATE = 4.67%
 S.E. IN = STA. 2007+25.19 TO STA. 2008+24.19
 S.E. OUT = STA. 2011+68.15 TO STA. 2012+67.15
 P.C. STATION 2007+74.69 N 1,724,122.25 E 1,022,609.37
 P.T. STATION 2012+17.65 N 1,723,685.62 E 1,022,542.25

CURVE RAMP C - 2

P.I. STATION 2037+82.40 N 1,721,220.89 E 1,021,833.00
 DELTA = 132° 56' 23" (LT)
 DEGREE = 6° 51' 42"
 RADIUS = 835.00'
 TANGENT = 1,917.61'
 LENGTH = 1,937.40'
 EXTERNAL = 1,256.52'
 LONG CHORD = 1,531.14'
 MID. ORD. = 501.64'
 S.E. RATE = 6.00%
 S.E. IN = STA. 2016+40.79 TO STA. 2019+76.79
 P.C. STATION 2018+64.79 N 1,723,063.72 E 1,022,363.29
 P.T. STATION 2038+02.19 N 1,722,088.07 E 1,023,543.33

FILE NAME =	USER NAME = TK1jege1	DESIGNED -	REVISED -
D160C31-SHT-ATB03.dgn		DRAWN -	REVISED -
	PLOT SCALE = 1:200	CHECKED -	REVISED -
	PLOT DATE = 12/11/2009	DATE - 12/18/09	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	31
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 60C31	