

**CURVE RAMP D - 1**

P.I. STATION 4008+27.72 N 1,721,526.41 E 1,022,685.01  
 DELTA = 18° 36' 40" (RT)  
 DEGREE = 6° 51' 42"  
 RADIUS = 835.00'  
 TANGENT = 136.82'  
 LENGTH = 271.23'  
 EXTERNAL = 11.14'  
 LONG CHORD = 270.04'  
 MID. ORD. = 10.99'  
 P.C. STATION 4006+90.90 N 1,721,653.86 E 1,022,635.24  
 P.T. STATION 4009+62.13 N 1,721,389.74 E 1,022,691.50

**CURVE RAMP E - 1**

P.I. STATION 102+86.05 N 1,722,217.42 E 1,023,798.46  
 DELTA = 37° 49' 14" (LT)  
 DEGREE = 6° 51' 42"  
 RADIUS = 835.00'  
 TANGENT = 286.05'  
 LENGTH = 551.18'  
 EXTERNAL = 47.64'  
 LONG CHORD = 541.22'  
 MID. ORD. = 45.07'  
 S.E. RATE = 6.00%  
 P.C. STATION 100+00.00 N 1,722,088.07 E 1,023,543.33  
 P.T. STATION 105+51.18 N 1,722,476.05 E 1,023,920.68

**CURVE RAMP E - 2**

P.I. STATION 110+69.58 N 1,722,944.76 E 1,024,142.17  
 DELTA = 82° 36' 30" (LT)  
 DEGREE = 9° 42' 40"  
 RADIUS = 590.00'  
 TANGENT = 518.40'  
 LENGTH = 850.66'  
 EXTERNAL = 195.39'  
 LONG CHORD = 778.87'  
 MID. ORD. = 146.78'  
 S.E. RATE = 6.00%  
 S.E. OUT = STA. 112+72.83 TO STA. 116+59.83  
 P.C. STATION 105+51.18 N 1,722,476.05 E 1,023,920.68  
 P.T. STATION 114+01.83 N 1,723,224.71 E 1,023,705.85

**CURVE RAMP E - 3**

P.I. STATION 123+85.49 N 1,723,755.90 E 1,022,877.95  
 DELTA = 54° 35' 42" (RT)  
 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. 120+38.29 TO STA. 122+06.29  
 S.E. OUT = STA. 125+24.26 TO STA. 126+08.25 (END OF ALIGNMENT)  
 P.C. STATION 121+22.29 N 1,723,613.77 E 1,023,099.48  
 P.T. STATION 126+08.25 N 1,724,018.81 E 1,022,865.46

FILE NAME = 0160C31-SHT-ATB04.dgn	USER NAME = (Kluaga)	DESIGNED - ---	REVISED - ---
		DRAWN - ---	REVISED - ---
		CHECKED - ---	REVISED - ---
		DATE = 12/18/09	REVISED - ---

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENTS, TIES, AND BENCHMARKS**

SCALE: NONE SHEET NO. 4 OF 9 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	32
CONTRACT NO. 60C31			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	