

**CURVE I-55 - 1**

P.I. STATION 1100+76.51 N 1,729,085.29 E 1,022,558.38  
 DELTA = 6° 02' 01" (LT)  
 DEGREE = 0° 21' 12"  
 RADIUS = 16,216.85'  
 TANGENT = 854.65'  
 LENGTH = 1,707.71'  
 EXTERNAL = 22.50'  
 LONG CHORD = 1,706.92'  
 MID. ORD. = 22.47'  
 P.C. STATION 1092+21.86 N 1,728,230.97 E 1,022,581.86  
 P.C.C. STATION 1109+29.57 N 1,729,932.41 E 1,022,445.24

**CURVE I-55 - 2**

P.I. STATION 1116+34.36 N 1,730,630.99 E 1,022,351.93  
 DELTA = 6° 05' 15" (RT)  
 DEGREE = 0° 25' 56"  
 RADIUS = 13,254.52'  
 TANGENT = 704.79'  
 LENGTH = 1,408.25'  
 EXTERNAL = 18.72'  
 LONG CHORD = 1,407.59'  
 MID. ORD. = 18.70'  
 P.C.C. STATION 1109+29.57 N 1,729,932.41 E 1,022,445.24  
 P.T. STATION 1123+37.82 N 1,731,335.53 E 1,022,333.23

**CURVE ARSENAL ROAD - 1**

P.I. STATION 970+18.91 N 1,731,033.21 E 1,022,631.29  
 DELTA = 74° 19' 32" (RT)  
 DEGREE = 5° 43' 46"  
 RADIUS = 1,000.00'  
 TANGENT = 758.02'  
 LENGTH = 1297.22'  
 EXTERNAL = 254.83'  
 LONG CHORD = 1,208.16'  
 MID. ORD. = 203.08'  
 S.E. RATE = 4.00%  
 S.E. IN = STA. 960+85.89 TO STA. 963+10.89  
 P.C. STATION 962+60.89 N 1,730,275.33 E 1,022,645.76  
 P.C.C. STATION 975+58.12 N 1,731,251.89 E 1,023,357.08

**CURVE ARSENAL ROAD - 2**

P.I. STATION 976+44.66 N 1,731,276.86 E 1,023,439.94  
 DELTA = 6° 39' 28" (RT)  
 DEGREE = 3° 51' 02"  
 RADIUS = 1,487.94'  
 TANGENT = 86.55'  
 LENGTH = 172.90'  
 EXTERNAL = 2.51'  
 LONG CHORD = 172.80'  
 MID. ORD. = 2.51'  
 S.E. RATE = 4.00%  
 P.C.C. STATION 975+58.12 N 1,731,251.89 E 1,023,357.08  
 P.C.C. STATION 977+31.01 N 1,731,292.06 E 1,023,525.14

**CURVE ARSENAL ROAD - 3**

P.I. STATION 983+29.24 N 1,731,397.07 E 1,024,114.08  
 DELTA = 8° 33' 11" (RT)  
 DEGREE = 0° 42' 58"  
 RADIUS = 8,000.00'  
 TANGENT = 598.23'  
 LENGTH = 1,194.23'  
 EXTERNAL = 22.34'  
 LONG CHORD = 1,193.12'  
 MID. ORD. = 22.27'  
 P.C.C. STATION 977+31.01 N 1,731,292.06 E 1,023,525.14  
 P.T. STATION 989+25.24 N 1,731,413.33 E 1,024,712.09

**CURVE WEST FRONTAGE CONNECTOR - 1**

P.I. STATION 6004+84.50 N 1,722,753.10 E 1,022,218.86  
 DELTA = 33° 02' 16" (RT)  
 DEGREE = 6° 17' 22"  
 RADIUS = 911.00'  
 TANGENT = 270.18'  
 LENGTH = 525.30'  
 EXTERNAL = 39.22'  
 LONG CHORD = 518.05'  
 MID. ORD. = 37.60'  
 S.E. RATE = 6.00%  
 S.E. IN = STA. 6000+70.32 TO STA. 6002+62.32  
 S.E. OUT = STA. 6006+91.62 TO STA. 6008+83.62  
 P.C. STATION 6002+14.32 N 1,722,501.43 E 1,022,317.14  
 P.T. STATION 6007+39.62 N 1,723,017.65 E 1,022,273.68

**CURVE WEST FRONTAGE CONNECTOR - 2**

P.I. STATION 6022+25.25 N 1,724,472.38 E 1,022,575.12  
 DELTA = 13° 16' 51" (LT)  
 DEGREE = 0° 42' 58"  
 RADIUS = 8,000.00'  
 TANGENT = 931.36'  
 LENGTH = 1,854.37'  
 EXTERNAL = 54.03'  
 LONG CHORD = 1,850.22'  
 MID. ORD. = 53.67'  
 S.E. RATE = NORMAL CROWN  
 P.C. STATION 6012+93.89 N 1,723,560.39 E 1,022,386.14  
 P.T. STATION 6031+48.26 N 1,725,403.39 E 1,022,549.53

**CURVE WEST FRONTAGE CONNECTOR - 3**

P.I. STATION 6063+95.59 N 1,728,649.49 E 1,022,460.32  
 DELTA = 2° 26' 42" (LT)  
 DEGREE = 0° 21' 21"  
 RADIUS = 16,100.00'  
 TANGENT = 343.56'  
 LENGTH = 687.01'  
 EXTERNAL = 3.67'  
 LONG CHORD = 686.95'  
 MID. ORD. = 3.66'  
 S.E. RATE = NORMAL CROWN  
 P.C. STATION 6060+52.03 N 1,728,306.06 E 1,022,469.76  
 P.C.C. STATION 6067+39.04 N 1,728,992.20 E 1,022,436.24

**CURVE WEST FRONTAGE CONNECTOR - 4**

P.I. STATION 6069+92.58 N 1,729,245.12 E 1,022,418.47  
 DELTA = 33° 35' 03" (LT)  
 DEGREE = 6° 49' 10"  
 RADIUS = 840.18'  
 TANGENT = 253.54'  
 LENGTH = 492.48'  
 EXTERNAL = 37.42'  
 LONG CHORD = 485.46'  
 MID. ORD. = 35.83'  
 S.E. RATE = 6.00%  
 S.E. IN = STA. 6065+95.04 TO STA. 6067+87.04  
 S.E. OUT = STA. 6071+83.52 TO STA. 6073+75.52  
 P.C.C. STATION 6067+39.04 N 1,728,992.20 E 1,022,436.24  
 P.T. STATION 6072+31.52 N 1,729,445.98 E 1,022,263.76

**CURVE WEST FRONTAGE CONNECTOR - 5**

P.I. STATION 6084+79.95 N 1,730,435.06 E 1,021,501.98  
 DELTA = 122° 06' 45" (RT)  
 DEGREE = 16° 48' 26"  
 RADIUS = 340.90'  
 TANGENT = 616.43'  
 LENGTH = 726.55'  
 EXTERNAL = 363.51'  
 LONG CHORD = 596.64'  
 MID. ORD. = 175.92'  
 S.E. RATE = 5.00%  
 S.E. IN = STA. 6078+30.72 TO STA. 6079+04.52  
 S.E. OUT = STA. 6085+20.07 TO STA. 6087+16.07  
 P.C. STATION 6078+63.52 N 1,729,946.70 E 1,021,878.12  
 P.T. STATION 6085+90.07 N 1,730,494.05 E 1,022,115.58

**CURVE WEST FRONTAGE ROAD - 1**

P.I. STATION 5015+80.03 N 1,721,612.55 E 1,022,653.71  
 DELTA = 42° 50' 05" (LT)  
 DEGREE = 5° 12' 31"  
 RADIUS = 1,100.00'  
 TANGENT = 431.47'  
 LENGTH = 822.3699'  
 EXTERNAL = 81.60'  
 LONG CHORD = 803.35'  
 MID. ORD. = 75.96'  
 S.E. RATE = 5.75%  
 S.E. IN = STA. 5010+08.56 TO STA. 5011+94.56  
 S.E. OUT = STA. 5019+45.57 TO STA. 5020+83.57  
 P.C. STATION 5011+48.56 N 1,721,181.24 E 1,022,665.56  
 P.T. STATION 5019+70.93 N 1,721,920.77 E 1,022,351.78

**CURVE WEST FRONTAGE ROAD - 2**

P.I. STATION 5023+39.59 N 1,722,184.13 E 1,022,093.80  
 DELTA = 113° 04' 44" (RT)  
 DEGREE = 47° 44' 47"  
 RADIUS = 120.00'  
 TANGENT = 181.5'  
 LENGTH = 236.83'  
 EXTERNAL = 97.64'  
 LONG CHORD = 200.22'  
 MID. ORD. = 53.84'  
 S.E. RATE = 5.00%  
 S.E. IN = STA. 5020+83.57 TO STA. 5021+64.57  
 S.E. OUT = STA. 5023+67.85 TO STA. 5024+81.85  
 P.C. STATION 5021+58.02 N 1,722,054.43 E 1,022,220.86  
 P.T. STATION 5023+94.85 N 1,722,250.18 E 1,022,262.93

FILE NAME = D160F12-SHT-ATB02.dgn	USER NAME = IKLuegel	DESIGNED - ---	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENTS, TIES, AND BENCHMARKS</b>			F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 35
PLOT SCALE = 1:200	CHECKED - ---	REVISED -	SCALE: NONE					SHEET NO. 2 OF 9 SHEETS	STA. TO STA.	CONTRACT NO. 60F12		
PLOT DATE = 2/3/2011	DATE = 2/4/11	REVISED -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						