

**FRONTAGE RD B / MERGE LN**

Curve Data

Curve E FRONT B-9  
 P.I. Station 582+64.05 N 1,895,729.3755 E 1,108,754.0486  
 Delta = 3° 55' 12.03" (RT)  
 Degree = 3° 31' 09.83"  
 Tangent = 55.7132  
 Length = 111.3829  
 Radius = 1,628.0000  
 External = 0.9530  
 Long Chord = 111.3612  
 Mid. Ord. = 0.9525  
 P.C. Station 582+08.33 N 1,895,717.3492 E 1,108,699.6489  
 P.T. Station 583+19.72 N 1,895,737.6548 E 1,108,809.1432  
 C.C. = N 1,894,127.7309 E 1,109,051.0714  
 Back = N 77° 32' 02.14" E  
 Ahead = N 81° 27' 14.17" E  
 Chord Bear = N 79° 29' 38.15" E

**FRONTAGE RD C / MERGE LN**

Curve Data

Curve E FRONT C-1  
 P.I. Station 584+87.50 N 1,895,754.1528 E 1,108,976.5601  
 Delta = 6° 09' 51.58" (RT)  
 Degree = 1° 50' 19.54"  
 Tangent = 167.7837  
 Length = 335.2437  
 Radius = 3,116.0000  
 External = 4.5140  
 Long Chord = 335.0820  
 Mid. Ord. = 4.5074  
 P.C. Station 583+19.72 N 1,895,725.6172 E 1,108,811.2207  
 P.T. Station 586+54.96 N 1,895,764.7691 E 1,109,144.0076  
 C.C. = N 1,892,655.0130 E 1,109,341.1697  
 Back = N 80° 12' 28.47" E  
 Ahead = N 86° 22' 20.06" E  
 Chord Bear = N 83° 17' 24.26" E

Course from PT E FRONT C-1 to 1181 N 86° 22' 20.06" E Dist 99.8653

Point 1181 N 1,895,771.0880 E 1,109,243.6727 Sta 587+54.83

Course from 1181 to 1182 N 86° 25' 06.63" E Dist 551.5756

Point 1182 N 1,895,805.5439 E 1,109,794.1711 Sta 593+06.40

**RAMP E\_WOLF\_A**

Curve Data

Curve E WOLF A-1  
 P.I. Station 0+99.05 N 1,895,592.1044 E 1,104,220.5465  
 Delta = 2° 57' 31.97" (RT)  
 Degree = 1° 29' 38.50"  
 Tangent = 99.0456  
 Length = 198.0472  
 Radius = 3,834.9886  
 External = 1.2788  
 Long Chord = 198.0252  
 Mid. Ord. = 1.2784  
 P.C. Station 0+00.00 N 1,895,558.3257 E 1,104,313.6541  
 P.T. Station 1+98.05 N 1,895,630.6442 E 1,104,129.3066  
 C.C. = N 1,899,163.3994 E 1,105,621.5461  
 Back = N 70° 03' 34.67" W  
 Ahead = N 67° 06' 02.71" W  
 Chord Bear = N 68° 34' 48.69" W

Course from PT E WOLF A-1 to PC E WOLF A-2 N 67° 06' 02.71" W Dist 254.8921

Curve Data

Curve E WOLF A-2  
 P.I. Station 5+51.13 N 1,895,768.0333 E 1,103,804.0491  
 Delta = 28° 00' 30.90" (LT)  
 Degree = 14° 33' 11.37"  
 Tangent = 98.1918  
 Length = 192.4571  
 Radius = 393.7000  
 External = 12.0602  
 Long Chord = 190.5465  
 Mid. Ord. = 11.7017  
 P.C. Station 4+52.94 N 1,895,729.8257 E 1,103,894.5024  
 P.T. Station 6+45.40 N 1,895,759.2887 E 1,103,706.2475  
 C.C. = N 1,895,367.1531 E 1,103,741.3091  
 Back = N 67° 06' 02.71" W  
 Ahead = S 84° 53' 26.39" W  
 Chord Bear = N 81° 06' 18.16" W

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENT PLAN I-290 RAMP CURVE DATA</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\expln\ARC\02_290_R_Data\exalign_22.dgn	DRAWN - TMB	REVISED -			290	(3031.1, ETC., 3838)RS-5	COOK	298	49			
USER NAME = tbiank	CHECKED - JMM	REVISED -			CONTRACT NO. 60652							
PLDT DATE = 11/12/2009	DATE = 10/16/09	REVISED -			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT							
			SCALE: N.T.S. SHEET NO. 22 OF 36 SHEETS STA. TO STA.									