

Chain IL21NB contains:
 CUR NBR3 CUR NBR4 CUR NBR5 CUR NBR6 CUR NBR7 CUR NBR8 CUR NBR9 102 103 CUR NBR-
 10 CUR NBR11 108

Beginning chain IL21NB description
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Curve Data

Curve NBR3
 P.I. Station 2+94.32 N 2,068,181.0839 E 1,089,255.9130
 Delta = 2° 56' 41.34" (LT)
 Degree = 0° 30' 01.41"
 Tangent = 294.3151'
 Length = 588.5006'
 Radius = 11,450.1560'
 External = 3.7819'
 Long Chord = 588.4358'
 Mid. Ord. = 3.7807'
 P.C. Station 0+00.00 N 2,068,437.4456 E 1,089,400.4815
 P.T. Station 5+88.50 N 2,067,917.6336 E 1,089,124.7058
 C.C. N 2,062,813.0947 E 1,099,374.0841

Course from PT NBR3 to PC NBR4 S 26° 28' 29.52" W Dist 5,067.6742'

Curve Data

Curve NBR4
 P.I. Station 58+95.45 N 2,063,167.2225 E 1,086,758.8396
 Delta = 1° 11' 48.52" (LT)
 Degree = 0° 15' 00.35"
 Tangent = 239.2768'
 Length = 478.5362'
 Radius = 22,909.3120'
 External = 1.2495'
 Long Chord = 478.5275'
 Mid. Ord. = 1.2495'
 P.C. Station 56+56.17 N 2,063,381.4063 E 1,086,865.5104
 P.T. Station 61+34.71 N 2,062,950.8574 E 1,086,656.6656
 C.C. N 2,053,168.3163 E 1,107,372.3231

Course from PT NBR4 to PC NBR5 S 25° 16' 40.99" W Dist 0.0061'

Curve Data

Curve NBR5
 P.I. Station 63+74.19 N 2,062,734.3089 E 1,086,554.4051
 Delta = 1° 11' 48.67" (RT)
 Degree = 0° 14' 59.65"
 Tangent = 239.4734'
 Length = 478.9294'
 Radius = 22,927.3120'
 External = 1.2506'
 Long Chord = 478.9207'
 Mid. Ord. = 1.2505'
 P.C. Station 61+34.72 N 2,062,950.8518 E 1,086,656.6630
 P.T. Station 66+13.65 N 2,062,519.9491 E 1,086,447.6464
 C.C. N 2,072,741.0791 E 1,065,924.7291

Course from PT NBR5 to PC NBR6 S 26° 28' 29.67" W Dist 415.0058'

Curve Data

Curve NBR6
 P.I. Station 72+68.12 N 2,061,934.1124 E 1,086,155.8793
 Delta = 1° 11' 48.53" (RT)
 Degree = 0° 14' 59.65"
 Tangent = 239.4655'
 Length = 478.9136'
 Radius = 22,927.3120'
 External = 1.2505'
 Long Chord = 478.9049'
 Mid. Ord. = 1.2505'
 P.C. Station 70+28.65 N 2,062,148.4651 E 1,086,262.6344
 P.T. Station 75+07.57 N 2,061,722.0363 E 1,086,044.6703
 C.C. N 2,072,369.5951 E 1,065,739.7170

Course from PT NBR6 to PC NBR7 S 27° 40' 18.16" W Dist 0.0011'

Curve Data

Curve NBR7
 P.I. Station 77+46.86 N 2,061,510.1149 E 1,085,933.5425
 Delta = 1° 11' 48.75" (LT)
 Degree = 0° 15' 00.35"
 Tangent = 239.2896'
 Length = 478.5618'
 Radius = 22,909.3120'
 External = 1.2497'
 Long Chord = 478.5531'
 Mid. Ord. = 1.2496'
 P.C. Station 75+07.57 N 2,061,722.0352 E 1,086,044.6697
 P.T. Station 79+86.13 N 2,061,295.9196 E 1,085,826.8660
 C.C. N 2,051,082.8357 E 1,106,333.6818

Course from PT NBR7 to PC NBR8 S 26° 28' 29.45" W Dist 1,237.4351'

Curve Data

Curve NBR8
 P.I. Station 98+38.18 N 2,059,638.0963 E 1,085,001.2142
 Delta = 12° 15' 52.33" (LT)
 Degree = 1° 00' 05.66"
 Tangent = 614.6121'
 Length = 1,224.5271'
 Radius = 5,720.5780'
 External = 32.9219'
 Long Chord = 1,222.1906'
 Mid. Ord. = 32.7335'
 P.C. Station 92+23.56 N 2,060,188.2542 E 1,085,275.2114
 P.T. Station 104+48.09 N 2,059,042.2906 E 1,084,850.3381
 C.C. N 2,057,637.9924 E 1,090,395.8732

Course from PT NBR8 to PC NBR9 S 14° 12' 37.12" W Dist 2,059.6043'

Curve Data

Curve NBR9
 P.I. Station 133+66.27 N 2,056,213.4035 E 1,084,133.9778
 Delta = 46° 11' 37.70" (LT)
 Degree = 2° 50' 45.60"
 Tangent = 858.5757'
 Length = 1,623.1135'
 Radius = 2,013.2040'
 External = 175.4354'
 Long Chord = 1,579.5091'
 Mid. Ord. = 161.3730'
 P.C. Station 125+07.70 N 2,057,045.7077 E 1,084,344.7426
 P.T. Station 141+30.81 N 2,055,485.1590 E 1,084,588.7438
 C.C. N 2,056,551.5027 E 1,086,296.3449

Course from PT NBR9 to 102 S 31° 59' 00.58" E Dist 352.9334'

Point 102 N 2,055,185.8006 E 1,084,775.6838 Sta 144+83.74

Course from 102 to 103 S 33° 24' 56.12" E Dist 360.1125'

Equation: Sta 148+43.85 (BK) = Sta 11+02.65 (AH) -----
 End Region 1
 Begin Region 2

Point 103 N 2,054,885.2154 E 1,084,974.0006 Sta 11+02.65

Course from 103 to PC NBR10 S 31° 59' 00.58" E Dist 793.5650'

Equation: Sta 18+96.21 (BK) = Sta 156+37.42 (AH) -----
 End Region 2
 Begin Region 3

Curve Data

Curve NBR10
 P.I. Station 158+61.94 N 2,054,021.6707 E 1,085,513.2574
 Delta = 6° 41' 47.49" (RT)
 Degree = 1° 29' 34.67"
 Tangent = 224.5250'
 Length = 448.5388'
 Radius = 3,837.7190'
 External = 6.5623'
 Long Chord = 448.2835'
 Mid. Ord. = 6.5511'
 P.C. Station 156+37.42 N 2,054,212.1130 E 1,085,394.3321
 P.T. Station 160+85.96 N 2,053,818.6597 E 1,085,609.1637
 C.C. N 2,052,179.3695 E 1,082,139.1761

Curve Data

Curve NBR11
 P.I. Station 164+77.13 N 2,053,464.9736 E 1,085,776.2520
 Delta = 13° 11' 29.51" (RT)
 Degree = 1° 41' 37.18"
 Tangent = 391.1680'
 Length = 778.8770'
 Radius = 3,382.9557'
 External = 22.5401'
 Long Chord = 777.1578'
 Mid. Ord. = 22.3909'
 P.C. Station 160+85.96 N 2,053,818.6597 E 1,085,609.1637
 P.T. Station 168+64.84 N 2,053,082.4896 E 1,085,858.2176
 C.C. N 2,052,373.6226 E 1,082,550.3638

Course from PT NBR11 to 108 S 12° 05' 43.58" E Dist 390.2734'

Point 108 N 2,052,700.8802 E 1,085,939.9958 Sta 172+55.11

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 Ending chain IL21NB description

Chain IL21SB contains:
 CUR SBR3 CUR SBR4 CUR SBR5 CUR SBR6 CUR SBR7 CUR SBR8 CUR SBR9 54 CUR
 SBR10 CUR SBR11 61

Beginning chain IL21SB description
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Curve Data

Curve SBR3
 P.I. Station 2+94.78 N 2,068,189.5225 E 1,089,240.0070
 Delta = 2° 56' 41.34" (LT)
 Degree = 0° 29' 58.59"
 Tangent = 294.7778'
 Length = 589.4258'
 Radius = 11,468.1560'
 External = 3.7879'
 Long Chord = 589.3609'
 Mid. Ord. = 3.7866'
 P.C. Station 0+00.00 N 2,068,446.2873 E 1,089,384.8027
 P.T. Station 5+89.43 N 2,067,925.6581 E 1,089,108.5935
 C.C. N 2,062,813.0947 E 1,099,374.0841

Course from PT SBR3 to PC SBR4 S 26° 28' 29.52" W Dist 5,067.6742'

Curve Data

Curve SBR4
 P.I. Station 58+96.56 N 2,063,175.0787 E 1,086,742.6434
 Delta = 1° 11' 48.52" (LT)
 Degree = 0° 14' 59.65"
 Tangent = 239.4648'
 Length = 478.9122'
 Radius = 22,927.3120'
 External = 1.2505'
 Long Chord = 478.9035'
 Mid. Ord. = 1.2504'
 P.C. Station 56+57.10 N 2,063,389.4308 E 1,086,849.3981
 P.T. Station 61+36.01 N 2,062,958.5436 E 1,086,640.3892
 C.C. N 2,053,168.3163 E 1,107,372.3231

FILE NAME =	USER NAME = IDOT	DESIGNED - EJM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT TIES AND BENCHMARKS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1:\102901\cadd sheets\stn-align-003.dgn		DRAWN - BK	REVISED -						330	12BR-3	LAKE	518	36
		CHECKED - GFL	REVISED -						CONTRACT NO. 60953				
		DATE - 12/17/10	REVISED -						FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				
				SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.				