

HORIZONTAL & VERTICAL CONTROL

EX IL 40

Chain IL40 contains:
1052 CUR 210 CUR 200 1051

Beginning chain IL40 description

Point 1052 N 1,862,987.3152 E 2,426,472.1551 Sta 713+90.42

Course from 1052 to PC 210 N 34° 36' 28" W Dist 711.0000'

Curve Data

Curve 210
P.I. Station 721+90.98 N 1,863,646.2258 E 2,426,017.4703
Delta = 32° 15' 30" (RT)
Degree = 18° 30' 00"
Tangent = 89.5631'
Length = 174.3694'
Radius = 309.7070'
External = 12.6902'
Long Chord = 172.0755'
Mid. Ord. = 12.1907'
P.C. Station 721+01.42 N 1,863,572.5100 E 2,426,068.3383
P.T. Station 722+75.79 N 1,863,735.7136 E 2,426,013.7987
C.C. N 1,863,748.4100 E 2,426,323.2454

Course from PT 210 to PC 200 N 2° 20' 58" W Dist 34.2150'

Curve Data

Curve 200
P.I. Station 723+57.40 N 1,863,817.2519 E 2,426,010.4532
Delta = 17° 24' 00" (LT)
Degree = 18° 30' 00"
Tangent = 47.3918'
Length = 94.0541'
Radius = 309.7070'
External = 3.6050'
Long Chord = 93.6931'
Mid. Ord. = 3.5635'
P.C. Station 723+10.01 N 1,863,769.8999 E 2,426,012.3961
P.T. Station 724+04.06 N 1,863,861.8561 E 2,425,994.4392
C.C. N 1,863,757.2035 E 2,425,702.9494

Course from PT 200 to 1051 N 19° 44' 58" W Dist 2,370.7266'

Point 1051 N 1,866,093.1341 E 2,425,193.3508 Sta 747+74.79

Ending chain IL40 description

PR IL 40

Chain PR_IL40 contains:
1052 CUR 210 CUR D200 D102 1051

Beginning chain PR_IL40 description

Point 1052 N 1,862,987.3152 E 2,426,472.1551 Sta 713+90.42

Course from 1052 to PC 210 N 34° 36' 28" W Dist 711.0000'

Curve Data

Curve 210
P.I. Station 721+90.98 N 1,863,646.2258 E 2,426,017.4703
Delta = 32° 15' 30" (RT)
Degree = 18° 30' 00"
Tangent = 89.5631'
Length = 174.3694'
Radius = 309.7070'
External = 12.6902'
Long Chord = 172.0755'
Mid. Ord. = 12.1907'
P.C. Station 721+01.42 N 1,863,572.5100 E 2,426,068.3383
P.T. Station 722+75.79 N 1,863,735.7136 E 2,426,013.7987
C.C. N 1,863,748.4100 E 2,426,323.2454

Course from PT 210 to PC D200 N 2° 20' 58" W Dist 58.5657'

CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
PR_IL40	210	210	211	212	213
PR_IL40	D200	200	201	202	203
BIKE2	BIKE2	IKE2	1	2	3
BIKE2	BIKE3	IKE3	1	2	3

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
401	1865155.5210	2425468.3470	650.3340	PR_IL40	738+00.79	59.3177' LT	BRASS DISK TOP OF ABUTMENT
402	1865341.5630	2425497.0590	649.7380	PR_IL40	739+65.79	31.2914' RT	S.S. PLUG RETAINING WALL
404	1864994.6310	2425638.8580	643.7940	PR_IL40	735+91.28	45.8845' RT	CUT SQ. WALL
405	1863829.2290	2425970.1580	649.2880	PR_IL40	723+76.16	37.295' LT	CUT SQ. WALL
406	1863700.6340	2426069.9830	650.1240	PR_IL40	722+30.74	51.9777' RT	CHIS. SQ. FOUNDATION

FUTURE BIKE PATH

Curve Data

Curve D200
P.I. Station 723+82.48 N 1,863,842.3186 E 2,426,009.4248
Delta = 17° 39' 00" (LT)
Degree = 18° 28' 57"
Tangent = 48.1290'
Length = 95.4957'
Radius = 310.0000'
External = 3.7139'
Long Chord = 95.1186'
Mid. Ord. = 3.6699'
P.C. Station 723+34.36 N 1,863,794.2301 E 2,426,011.3978
P.T. Station 724+29.85 N 1,863,887.5453 E 2,425,992.9641
C.C. N 1,863,781.5216 E 2,425,701.6584

Course from PT D200 to D102 N 19° 59' 58" W Dist 1,671.2792'

End Region 1

Equation: Sta 741+01.13 (BK) = Sta 741+00.00 (AH) -----
Begin Region 2

Point D102 N 1,865,458.0391 E 2,425,421.3668 Sta 741+00.00

Course from D102 to 1051 N 19° 44' 58" W Dist 674.7866'

Point 1051 N 1,866,093.1341 E 2,425,193.3508 Sta 747+74.79

Ending chain PR_IL40 description

Curve Data

Curve BIKE2
P.I. Station 21+97.73 N 1,863,951.54 E 2,425,904.10
Delta = 45° 02' 38" (RT)
Degree = 104° 10' 27"
Tangent = 22.81'
Length = 43.24'
Radius = 55.00'
External = 4.54'
Long Chord = 42.13'
Mid. Ord. = 4.19'
P.C. Station 1+74.92 N 1,863,939.87 E 2,425,884.50
P.T. Station 22+18.16 N 1,863,945.93 E 2,425,926.20
C.C. N 1,863,892.62 E 2,425,912.65
Back = N 59° 12' 46" E
Ahead = S 75° 44' 36" E
Chord Bear = N 81° 44' 05" E

Course from PT BIKE2 to PC BIKE3 S 75° 44' 36" E Dist 42.88

Curve Data

Curve BIKE3
P.I. Station 22+78.01 N 1,863,931.19 E 2,425,984.21
Delta = 34° 18' 16" (LT)
Degree = 104° 10' 27"
Tangent = 16.98'
Length = 32.93'
Radius = 55.00'
External = 2.56'
Long Chord = 32.44'
Mid. Ord. = 2.45'
P.C. Station 22+61.04 N 1,863,935.37 E 2,425,967.76
P.T. Station 22+93.97 N 1,863,937.00 E 2,426,000.16
C.C. N 1,863,988.67 E 2,425,981.30
Back = S 75° 44' 36" E
Ahead = N 69° 57' 08" E
Chord Bear = N 87° 06' 16" E

Course from PT BIKE3 to D303 N 69° 57' 08" E Dist 61.18

Point D303 N 1,863,957.98 E 2,426,057.63 Sta 23+55.15

Ending chain BIKE2 description

FILE NAME = D264882-sht-ATB2.dgn	USER NAME = dwoznarski	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL AND VERTICAL CONTROL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = N/A	DRAWN - DMW	REVISED -			646	IB-2	WHITESIDE	257	26
PLOT DATE = 7/14/2011	CHECKED -	REVISED -	REVISED -	SCALE: N/A	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64B80

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