

HORIZONTAL & VERTICAL CONTROL

Curve 310
P.I. Station 752+75.91 N 1,965,826.13 E 723,521.15
Delta = 28° 58' 40.30" (RT)
Degree = 1° 04' 00.00"
Tangent = 1,388.05'
Length = 2,716.68'
Radius = 5,371.48'
External = 176.45'
Long Chord = 2,687.81'
Mid. Ord. = 170.83'
P.C. Station 738+87.85 N 1,964,542.92 E 722,991.93
P.T. Station 766+04.53 N 1,966,692.29 E 724,605.79
C.C. N 1,962,494.94 E 727,957.67

Course from PT 310 to PC 320 N 51° 23' 24.50" E Dist 666.39'

Curve Data
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Curve 320
P.I. Station 776+31.49 N 1,967,333.13 E 725,408.28
Delta = 16° 42' 26.24" (LT)
Degree = 2° 20' 00.00"
Tangent = 360.57'
Length = 716.03'
Radius = 2,455.53'
External = 26.33'
Long Chord = 713.49'
Mid. Ord. = 26.05'
P.C. Station 772+70.92 N 1,967,108.13 E 725,126.52
P.T. Station 779+86.95 N 1,967,629.63 E 725,613.45
C.C. N 1,969,026.91 E 723,594.23

Course from PT 320 to PC 330 N 34° 40' 58.25" E Dist 1,736.73'

Curve Data
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Curve 330
P.I. Station 801+21.12 N 1,969,384.60 E 726,827.87
Delta = 6° 36' 59.97" (LT)
Degree = 0° 50' 00.00"
Tangent = 397.44'
Length = 794.00'
Radius = 6,875.49'
External = 11.48'
Long Chord = 793.56'
Mid. Ord. = 11.46'
P.C. Station 797+23.68 N 1,969,057.77 E 726,601.71
P.T. Station 805+17.68 N 1,969,735.30 E 727,014.86
C.C. N 1,972,970.16 E 720,947.89

Course from PT 330 to PC 340 N 28° 03' 58.28" E Dist 7.90'

Curve Data
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Curve 340
P.I. Station 808+47.61 N 1,970,026.43 E 727,170.09
Delta = 9° 38' 17.09" (LT)
Degree = 1° 30' 00.00"
Tangent = 322.03'
Length = 642.54'
Radius = 3,819.72'
External = 13.55'
Long Chord = 641.78'
Mid. Ord. = 13.50'
P.C. Station 805+25.58 N 1,969,742.27 E 727,018.58
P.T. Station 811+68.12 N 1,970,331.95 E 727,271.89
C.C. N 1,971,539.42 E 723,648.04

Course from PT 340 to PC 350 N 18° 25' 41.19" E Dist 438.25'

Curve Data
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Curve 350
P.I. Station 819+45.47 N 1,971,069.44 E 727,517.62
Delta = 37° 04' 47.44" (LT)
Degree = 5° 40' 00.00"
Tangent = 339.09'
Length = 654.35'
Radius = 1,011.10'
External = 55.35'
Long Chord = 642.99'
Mid. Ord. = 52.47'
P.C. Station 816+06.38 N 1,970,747.73 E 727,410.43
P.T. Station 822+60.73 N 1,971,390.72 E 727,409.17
C.C. N 1,971,067.35 E 726,451.17

Course from PT 350 to PC 360 N 18° 39' 06.25" W Dist 507.58'

Curve Data
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Curve 360
P.I. Station 834+45.59 N 1,972,513.35 E 727,030.24
Delta = 17° 54' 48.46" (RT)
Degree = 1° 20' 00.00"
Tangent = 677.28'
Length = 1,343.51'
Radius = 4,297.19'
External = 53.05'
Long Chord = 1,338.05'
Mid. Ord. = 52.40'
P.C. Station 827+68.31 N 1,971,871.64 E 727,246.84
P.T. Station 841+11.82 N 1,973,190.58 E 727,021.51
C.C. N 1,973,245.95 E 731,318.34

Course from PT 360 to PC 370 N 0° 44' 17.79" W Dist 490.40'

Curve Data
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Curve 370
P.I. Station 848+97.87 N 1,973,976.57 E 727,011.38
Delta = 5° 31' 59.83" (RT)
Degree = 0° 56' 11.44"
Tangent = 295.65'
Length = 590.84'
Radius = 6,118.00'
External = 7.14'
Long Chord = 590.61'
Mid. Ord. = 7.13'
P.C. Station 846+02.22 N 1,973,680.94 E 727,015.19
P.T. Station 851+93.06 N 1,974,271.18 E 727,036.10
C.C. N 1,973,759.77 E 733,132.68

Course from PT 370 to PC 380 N 4° 47' 42.05" E Dist 0.02'

Curve Data
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Curve 380
P.I. Station 857+03.14 N 1,974,779.48 E 727,078.73
Delta = 20° 11' 27.02" (RT)
Degree = 2° 00' 00.00"
Tangent = 510.06'
Length = 1,009.54'
Radius = 2,864.79'
External = 45.05'
Long Chord = 1,004.33'
Mid. Ord. = 44.35'
P.C. Station 851+93.08 N 1,974,271.20 E 727,036.10
P.T. Station 862+02.63 N 1,975,241.80 E 727,294.18
C.C. N 1,974,031.73 E 729,890.86

Course from PT 380 to PC 390 N 24° 59' 09.06" E Dist 316.93'

Curve Data
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Curve 390
P.I. Station 869+20.11 N 1,975,892.14 E 727,597.24
Delta = 22° 24' 28.72" (LT)
Degree = 2° 49' 59.99"
Tangent = 400.55'
Length = 790.87'
Radius = 2,022.21'
External = 39.29'
Long Chord = 785.84'
Mid. Ord. = 38.54'
P.C. Station 865+19.55 N 1,975,529.07 E 727,428.05
P.T. Station 873+10.42 N 1,976,292.28 E 727,615.26
C.C. N 1,976,383.24 E 725,595.10

Course from PT 390 to PC 400 N 2° 34' 40.34" E Dist 108.85'

Curve Data
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Curve 400
P.I. Station 877+50.16 N 1,976,731.58 E 727,635.03
Delta = 18° 35' 08.93" (RT)
Degree = 2° 49' 59.99"
Tangent = 330.89'
Length = 655.97'
Radius = 2,022.21'
External = 26.89'
Long Chord = 653.10'
Mid. Ord. = 26.54'
P.C. Station 874+19.27 N 1,976,401.02 E 727,620.15
P.T. Station 880+75.24 N 1,977,040.15 E 727,754.50
C.C. N 1,976,310.07 E 729,640.31

Course from PT 400 to PC 410 N 21° 09' 49.27" E Dist 2,075.22'

Curve Data
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Curve 410
P.I. Station 908+40.37 N 1,979,618.78 E 728,752.80
Delta = 39° 43' 23.64" (RT)
Degree = 3° 00' 00.00"
Tangent = 689.91'
Length = 1,324.11'
Radius = 1,909.86'
External = 120.79'
Long Chord = 1,297.75'
Mid. Ord. = 113.61'
P.C. Station 901+50.46 N 1,978,975.40 E 728,503.72
P.T. Station 914+74.57 N 1,979,954.45 E 729,355.55
C.C. N 1,978,285.88 E 730,284.77

Course from PT 410 to PC 420 N 60° 53' 12.91" E Dist 1,843.39'

Curve Data
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Curve 420
P.I. Station 936+67.01 N 1,981,021.15 E 731,271.01
Delta = 13° 53' 38.02" (LT)
Degree = 2° 00' 00.00"
Tangent = 349.06'
Length = 694.69'
Radius = 2,864.79'
External = 21.19'
Long Chord = 692.99'
Mid. Ord. = 21.03'
P.C. Station 933+17.95 N 1,980,851.32 E 730,966.05
P.T. Station 940+12.65 N 1,981,259.24 E 731,526.26
C.C. N 1,983,354.18 E 729,572.23

Course from PT 420 to PC 430 N 46° 59' 34.89" E Dist 3,297.18'

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL & VERTICAL CONTROL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
ct:\pw_work\VPIDOT\GRANTPM\dms31213\d86608hvc.dgn		DRAWN -	REVISED -			742	37R-4	OGLE	867	78		
		CHECKED -	REVISED -			CONTRACT NO. 64E17						
		DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						