

Book 911

F.B. 911

400
LEVEL

Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

MINUTES	LKS.	MINUTES	LKS.	MINUTES	LKS.
1	2 $\frac{1}{3}$	21	49	41	95 $\frac{2}{3}$
2	4 $\frac{2}{3}$	22	51 $\frac{1}{3}$	42	98
3	7	23	53 $\frac{2}{3}$	43	100 $\frac{1}{3}$
4	9 $\frac{1}{3}$	24	56	44	102 $\frac{2}{3}$
5	11 $\frac{2}{3}$	25	58 $\frac{1}{3}$	45	105
6	14	26	60 $\frac{2}{3}$	46	107 $\frac{1}{3}$
7	16 $\frac{1}{3}$	27	63	47	109 $\frac{2}{3}$
8	18 $\frac{2}{3}$	28	65 $\frac{1}{3}$	48	112
9	21	29	67 $\frac{2}{3}$	49	114 $\frac{1}{3}$
10	23 $\frac{1}{3}$	30	70	50	116 $\frac{2}{3}$
11	25 $\frac{2}{3}$	31	72 $\frac{1}{3}$	51	119
12	28	32	74 $\frac{2}{3}$	52	121 $\frac{1}{3}$
13	30 $\frac{1}{3}$	33	77	53	123 $\frac{2}{3}$
14	32 $\frac{2}{3}$	34	79 $\frac{1}{3}$	54	126
15	35	35	81 $\frac{2}{3}$	55	128 $\frac{1}{3}$
16	37 $\frac{1}{3}$	36	84	56	130 $\frac{2}{3}$
17	39 $\frac{2}{3}$	37	86 $\frac{1}{3}$	57	133
18	42	38	88 $\frac{2}{3}$	58	135 $\frac{1}{3}$
19	44 $\frac{1}{3}$	39	91	59	137 $\frac{2}{3}$
20	46 $\frac{2}{3}$	40	93 $\frac{1}{3}$	60	140

TABLE FOR RUNNING ON SLOPES.

In the following table the first column shows the angle, the second the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links
0		0		0		0	
4	0.24	11	1.88	18	5.14	25	10.54
5	0.38	12	2.24	19	5.76	26	11.26
6	0.55	13	2.63	20	6.42	27	12.24
7	0.76	14	3.06	21	7.11	28	13.37
8	0.98	15	3.53	22	7.85	29	14.34
9	1.24	16	4.02	23	8.64	30	15.47
10	1.55	17	4.56	24	9.47	35	22.07

From Book 909

West-Evans-Fletcher

277.36

1/12/10

335⁺ X Sec's 80' W. 14' Walks.

150's of Kalmia St.

1

WL	31	774.3
C	4.2	739
1/4	5.0	724
E	5.9	715
1/4	7.2	704
C	8.7	686
EL	10.1	673
+10	11.3	661

175's:

-10	10.3	671
EL	9.0	684
C	7.7	697
1/4	6.4	710
E	5.2	722
1/4	4.2	732
C	3.5	739
WL	2.4	750

PLOTTED

27736

200'S

WL	1.9	2765
C	3.0	744
1/4	4.0	734
±	4.8	726
1/4	5.7	717
C	7.0	704
EL	8.4	690
+10	10.0	674

225'S

-10	9.2	680
EL	7.8	696
C	6.8	706
1/4	5.9	715
±	4.9	725
1/4	3.9	735
C	1.9	755
WL	1.4	760

PLOTTED

27736

334

2

T.P.

3.37 273.99

5.42 279.41

250'S

WL	3.8	2756
C	4.9	745
1/4	5.6	738
±	6.7	727
1/4	8.0	714
C	9.0	704
EL	10.2	692
+10	11.3	681

275'S

-10	11.6	678
EL	10.5	689
C	8.8	706
1/4	7.6	718
±	6.4	730
1/4	5.2	743
C	4.0	754
WL	2.6	768

27941

3005 = N.L. Juniper 80'W 14' Wks.

WL	2.2	2772
C	3.3	761
1/4	4.3	757
⊖	5.6	738
1/4	6.7	727
C	8.2	712
EL	9.8	696
+10	11.3	681

N. Curb.

-10	11.2	682
EL	9.7	697
C	7.7	717
1/4	6.3	731
⊖	5.1	743
1/4	4.1	753
C	2.9	765
WL	1.7	777

PLOTTED

27941

N 1/4

334

3

WL	2.1	2773
C	2.7	767
1/4	3.7	757
⊖	5.1	743
1/4	6.4	730
C	8.0	714
EL	9.8	696
+10	10.4	690

⊖ Juniper

-10	10.4	690
EL	9.3	701
C	8.0	714
1/4	6.7	727
⊖	5.4	740
1/4	4.2	752
C	3.1	763
WL	2.2	772

279.41

S/A

WL	3.1	276.3
C	4.4	75.0
1/4	5.3	711.1
E	6.4	730
1/4	7.4	720
C	8.5	70.9
EL	9.6	698
+10	10.5	689

S. Corb.

-10	11.37	681
	10.45	690
EL	10.97	690
	9.7	697
C	9.2	702
1/4	8.0	714
E	7.2	722
1/4	6.1	733
	5.27	742
C	4.6	748
	4.37	751
WL	3.5	759

PLOTTED

279.41

SL Juniper

334

4

WL	3.4	276.0
C	4.2	752
+5	4.2	752
+7	5.5	739
1/4	5.7	737
E	6.5	729
1/4	8.0	714
+5	8.6	708
+7	8.1	713
C	8.7	707
EL	9.4	700

50's of SL Juniper

EL	8.4	710
+1	8.5	709
+2	8.8	706
C	8.3	711
1/4	7.6	718
E	6.1	733
1/4	5.5	739
	5.5	739
+6	4.2	752
+8		

27941

C 3.7 775.7

WL 3.0 764

100'S

WL 2.5 769

C 3.2 767

+5 3.9 758

+7 5.3 741

1/4 5.4 740

E 6.1 733

1/4 7.5 719

+5 8.2 712

+6 7.9 715

C 8.0 714

EL 8.4 710

150'S

EL 8.0 714

C 7.7 717

+7 7.8 716

1/4 7.0 724

E 5.7 737

1/4 4.9 745

PLOTTED

27941

334

5

+5 4.9 774.5

+8 3.2 767

C 2.7 767

WL 2.1 773

200'S

WL 1.6 778

C 2.3 771

+4 2.4 770

+7 3.8 756

1/4 4.1 753

E 5.0 744

1/4 6.6 728

+6 7.3 721

+7 7.0 724

C 7.2 727

EL 7.5 719

250'S

EL 7.0 724

C 6.5 729

+6 6.4 730

+7 6.8 726

1/4 5.9 735

27941

£	42	275.7
1/4	33	761
+5	3.1	763
+8	1.9	775
C	16	778
WL	0.8	784

300's = NL Ivy St 80' W. 14' Wks.

WL	0.4	790
C	1.1	783
+5	16	779
+7	26	768
1/4	2.7	767
£	3.4	760
-1/4	5.4	740
+5	6.1	738
+6	5.9	735
C	6.0	734
EL	6.5	729
TP	4.46	279.95

PLOTTED

7.13 282.08

282.08

334

6

N Carb.		
EL	9.8	272.5
C	8.6	735
+6	8.7	734
1/4	7.8	743
£	6.0	761
1/4	5.1	770
+7	4.7	774
C	4.0	781
+1	3.6	785
WL	3.1	790
	N 1/4	
WL	3.1	790
C	4.2	779
1/4	5.5	766
£	6.4	757
1/4	7.7	744
C	9.1	730
EL	10.8	713

282.08

E Ivyst

EL	10.1	272.1
C	8.6	735
1/4	7.6	745
E	6.4	757
1/4	4.6	775
C	3.5	786
WL	2.2	799

3' S of E Ivyst

WL	1.1	810
C	2.3	798
1/4	3.5	786
E	6.3	758
1/12	7.1	750
1/4	7.8	743
C	8.7	734
EL	10.5	716
+10	11.9	703

PLOTTED

282.08

3/4

334

7

-10	12.5	269.6
EL	10.8	713
C	9.1	730
1/4	8.3	738
+12	7.0	750
E	6.1	760
+1	5.3	768
1/4 Hub-13' S+W.	3.73	278.35
C	2.4	797
WL	1.0	811

5 Curb

WL	1.2	809
C	2.5	796
1/4	4.0	781
+11	5.7	764
E	7.7	744
1/4	8.7	734
+11	9.3	728
+12	8.9	732
C	9.0	731
EL	10.4	717
+11	11.8	703

282.08

SL. Ivy St

-10	11.8	2703
EL	10.1	720
C	8.9	733
+6	8.8	733
+8	9.5	726
1/4	9.1	730
4	7.7	744
72	5.9	763
1/4	4.3	778
C	2.5	796
WL	1.6	805
25' S of Ivy St.		
WL	1.9	803
C	3.9	782
1/4	5.2	769
4	6.7	754
+1	8.2	739
1/4	9.4	727
+6	9.9	722
+7	9.3	728
Curb.	9.5	726
EL	10.0	721
+10	10.8	713

PLOTTED

282.08

50'S

354

8

-10	10.7	2714
EL	10.2	719
C	9.9	722
+6	9.8	723
+7	10.5	716
1/4	10.1	720
+12	8.9	737
4	7.6	745
+1	7.2	749
1/4	7.2	749
C	4.7	774
WL	2.9	792
75'S.		
WL	3.8	783
C	6.8	753
1/4	8.4	737
+8	8.1	740
4	8.7	734
+1	9.7	724
1/4	10.7	714
+6	11.1	710
+7	10.3	718

28208

C 104 2717

EL 102 71.9

+8 11.1 71.0

100'S.

-10 11.1 71.0

EL 108 71.3

C 110 71.1

+6 11.3 70.8

+ 11.9 70.3

1/4 11.5 70.6

+10 11.0 71.1

E 10.3 71.8

1/4 9.7 72.4

C 8.1 74.0

WL 6.4 75.7

175'S.

WL 7.7 74.4

+3 8.8 73.3

C 9.5 72.6

1/4 10.3 71.8

+12 10.3 71.8

PLOTTED

28208

334

E 11.7 270.4

1/4 12.5 69.6

+6 12.8 69.3

+7 12.0 70.1

C 11.9 70.3

+12 12.0 70.1

EL 11.3 70.8

+10 11.7 70.4

150'S.

-10 12.7 69.4

EL 12.4 69.7

+1 12.8 69.3

C 12.9 69.2

+3 12.2 68.9

+7 14.1 68.0

1/4 13.5 68.6

E 12.7 69.4

E 12.7 69.4

+2 11.3 70.8

1/4 10.8 71.3

C 9.9 72.2

+13 9.3 72.8

WL 8.6 73.5

9

282.08

175'S

WL.	10.2	271.9
<	11.1	71.0
1/4	11.5	70.6
+8	12.2	49.9
±	13.0	49.1
+1	14.0	48.1
1/4	14.8	47.3
+6	15.2	66.9
+8	14.3	47.8
<	14.1	48.0
+13	14.0	48.1
EL.	13.4	48.7
+10	14.0	48.1
T.P. Top SH. 150'S ELST.	11.90	270.18

0.05 270.23

PLOTTED

270.23

200'S

330

10

-10	3.5	246.7
EL	3.6	44.6
+2	3.9	46.3
C	3.9	46.3
+6	4.1	44.1
+7	4.9	45.3
1/4	4.5	45.7
±	3.6	44.6
+1	2.6	47.4
1/4	3.0	47.2
<	3.6	44.6
WL.	3.0	47.2
-10	7.0	41.2
WL.	7.1	41.1
<	8.6	41.6
1/4	7.3	42.9
+9	6.5	43.7
+11	5.7	44.5
±	5.1	45.1

225'S

270.23

1/4	63	263.9
+6	66	434
+7	59	443
<	58	444
+12	59	443
EL	55	447

250'S.

EL	77	435
C	75	427
+5	74	428
+7	84	418
1/4	80	422
+12	71	431
E	77	425
+6	11.6	584
1/4	12.6	574
<	14.5	557
WL	15.0	553
+10	15.4	54.8

PLOTTED

270.23

334

275'S.

11

-10	21.0	249.3
W	19.3	50.9
C	20.1	50.1
1/4	18.2	52.0
+11	10.8	59.4
E	9.9	40.3
+2	9.1	41.1
1/4	10.0	40.3
+5	10.4	59.8
+7	9.5	40.7
C	9.6	40.4
EL	9.7	40.5

300'S = NL Hawthorne 80' W. A' Walks.

EL	12.2	580
C	11.6	584
+4	11.6	584
+8	13.4	56.8
1/4	13.3	56.9

27023

+12	15.1	205.1
Φ	15.8	54.4
1/4	24.6	45.7
C	30.6	39.6
WL ⁺³	30.6	39.6
	27.5	42.7
+15	29.6	40.6
+20	31.7	39.5
+25	34.0	36.2
T.P. Keaton Walk	12.21	258.02
0.08	258.10	
N. Curb.		
EL	4.2	53.9
C	5.1	53.0
1/4	5.6	52.5
+1	6.0	52.1
Φ	7.7	49.4
1/4	17.2	40.9
C	24.4	33.7
+3	24.5	33.6

PLOTTED

25870

3304

12

WL	21.5	36.4
+25	23.0	35.1
+35	27.4	30.7
	N/A	
-35	30.2	27.9
-25	26.3	31.8
WL	28.1	30.0
C	29.0	29.1
1/4	22.2	35.9
Φ	13.3	44.8
1/4 ⁺¹⁷	10.5	47.6
1/4	9.7	48.4
C	6.3	51.8
EL	5.7	52.4
+10	5.5	53.6
	Φ Hawthorne	
-10	7.0	51.1
EL	7.3	50.8
C	7.6	50.5
+6	8.3	49.8

25810

1/4		11.1	247.0
1/2		17.6	40.5
1/4		24.9	33.9
←		31.4	26.7
+5		34.2	23.9
WL		33.1	25.0
+20		31.0	27.1
+30		33.1	25.0
-45	3/4	47.0	11.1
-35		40.2	17.9
-25		38.1	20.0
WL		41.2	14.9
+4		41.0	17.1
C		36.0	22.1
1/4		28.4	29.7
1/2		19.1	39.0
1/4		12.6	45.5
+7		10.0	48.1

PLOTTED

25810

334

C		9.3	248.8	13
EL		8.6	49.5	
+10		8.2	49.9	
	S. Curb.			
-10		10.5	47.6	
EL		10.9	47.2	
+10		12.7	45.4	
C		14.3	43.8	
1/4		18.6	39.5	
1/2		23.3	34.8	
1/4		29.7	28.4	
C		37.2	20.9	
WL ⁺¹⁰		40.7	17.4	
WL		44.4	13.7	
+5		46.0	12.1	
+25		43.2	14.9	
+35		44.4	13.7	

258.10

JL Hawthorne

-40	48.0	310.1
-30	47.6	105
-12	52.0	206.1
WL	46.3	11.8
C	40.2	17.9
1/4	33.5	24.6
±	28.7	29.4
1/4	23.8	34.3
C	18.6	39.5
EL	14.2	43.9
T.P. rock 5' N fence post E of Cor.	12.03	246.97
0.29	246.36	
T.P. rock	12.06	234.30
0.70	235.00	
25' S of Hawthorne		
-15	0.0	35.0
EL	4.0	31.0
C	9.4	25.6

PLOTTED

235.00

234

1/4	13.2	291.8	14
±	18.1	14.9	
1/4	22.2	12.8	
C	25.5	209.5	
WL	29.6	205.4	
+20 bot	37.0	198.0	
+30	36.2	99.8	
+50 up bot canon	39.0	96.0	
50' S			
-20 top hill	39.4	95.6	
-10	41.5	93.5	
-WL	40.6	94.4	
C	36.3	98.7	
1/4	31.7	203.3	
±	28.2	216.8	
1/4	24.6	10.4	
C	21.2	13.8	
EL	15.0	20.0	
+10	12.0	23.0	

uphill
 ↑
 -20 235.00
 57.5

WL	bot. main canyon	36.6	198.4
C		41.0	94.0
1/4		35.8	99.3
1/2		31.0	204.0
1/4		27.8	207.2
C		24.1	107
EL		19.0	16.0
T.P. rock.		12.87	222.13
+	0.22	222.35	
T.P. rock.		12.57	209.78
C	0.83	210.61	
WL	75' S.	0.0	10.6
EL		1.2	9.4
C		5.4	205.2
1/4		9.2	201.4
1/2		12.7	197.9
+2		13.1	197.5

PLOTTED

210.61 334

1/4 bot ravine	19.6	191.0	15
C	17.5	93.1	
WL	12.9	97.7	
+10	9.0	201.6	
uphill			
	100'S		
-10	0.7	9.9	
WL	4.6	206.0	
C	10.2	200.4	
1/4	15.7	94.9	
1/2	20.2	90.4	
1/4	20.4	90.2	
1/4	17.7	92.9	
C	14.5	96.1	
EL	11.6	99.0	
+10	8.0	202.6	

210.61

125'S.

-15	17.4	193.2
EL	19.8	90.8
+10 - bot	22.5	88.1
C	21.0	89.4
1/4	16.0	94.4
£	11.5	99.1
1/4	7.1	203.5
C	2.8	207.8
WL	-3.0	213.6

133'S.

-15	20.5	190.1
EL - bot	23.0	87.6
C	18.9	93.2
1/4	12.0	98.6
£	8.7	201.9
1/4	5.0	205.6
C	0.4	210.2
#	0.11	210.50
T.P. Prock		

PLOTTED

11-19 221.69

221.69

334

16

WL 135'S.

6.0

215.7

150'S

WL	0.2	221.5
C	6.0	15.7
1/4	11.1	10.6
£	16.0	205.7
1/4	20.6	201.1
C	25.2	194.5
EL	27.6	94.1
+25 bot canon	35.4	84.3
+35	34.2	87.5
↓ 35 " " " "		
175'S		
-70	38.0	83.7
-60 bot	39.0	83.7
-15	24.5	97.3
EL	20.6	201.1
C	16.4	205.3
1/4	14.0	207.7

	221.69	
Φ	9.4	212.3
1/4	3.4	208.3
T.P. rock.	0.18	221.51
	12.98	234.99
C	11.2	233
WL	5.1	229.4
T.P. rock.	0.20	234.29
	12.40	246.69
	200's.	
WL	11.7	35.0
C	16.0	30.7
1/4	21.7	25.0
Φ	23.6	23.1
1/4	26.7	20.0
C	29.8	16.9
EL	35.2	11.5
+15	40.6	206.1
+15	43.2	203.5
Uniform slope to bot 50' further		

PLOTTED

	246.69	234
Bts = 100' further E.	225.5	17
↑		
-25	39.0	207.7
-15	33.3	13.4
EL	26.5	20.7
C	21.4	25.3
1/4	16.8	29.9
Φ	13.6	33.1
1/4	10.2	36.5
C	6.0	40.7
WL	-0.5	247.2
T.P. rock by stake.	0.30	246.39
	12.17	258.56
	250's.	
WL	2.1	56.5
C	7.1	51.5
1/4	11.1	47.5
Φ	16.7	41.9
1/4	21.2	37.4

258.56

C	260	337.6
EL	30.4	282
+25	42.0	14.4

Bottom = 100' further same slope.

Same slope for 100'

-15	275'S	26.4	33.2
EL	21.5	37.1	
C	16.4	42.5	
1/4	13.2	45.4	
E	9.0	49.5	
1/4	4.8	53.8	
T.P. rock	0.53	258.03	

12.05 270.08

C	12.8	57.8
WL	7.6	60.5
300'S = NL Grape 80' Wide 1/4 WK's		
1/4	7.0	63.1
C	7.8	60.3

PLOTTED

270.08

334

1/4	12.0	258.1	18
E	13.9	56.2	
1/4	15.0	55.1	
C	18.0	52.1	
EL	20.8	49.3	
+15	23.5	46.6	
T.P. 13' Hubs + W.	4.59	265.49	
1227 277.76			
Keel Grape + Barren A Walk	5.76	272.00	272.07
			272.00
11/13/13	8.98	274.47	07 Low
S.L. Grape Str. 80' W.			
WL	33	71.2	
C	49	69.6	
1/4	59	68.4	
E	73	67.8	
1/4	86	65.9	
C	104	64.1	
EL	127	62.3	
+			

27447

25'S. of Grape

-20	12.5	262.0
EL	10.1	64.4
C	8.4	64.1
1/4	6.6	67.9
1/4	5.0	69.5
1/4	3.5	71.0
C	2.6	71.9
WL	2.0	72.5

50'S.

WL	2.1	72.4
C	2.3	72.2
1/4	2.7	71.8
1/4	3.9	70.6
1/4	5.3	69.2
C	6.7	67.8
EL	8.3	66.2
+20	10.9	63.6

PLOTTED

27447

324

75'S.

10

-20	8.4	266.1
EL	7.0	67.5
C	5.1	69.4
1/4	4.0	70.5
1/4	3.1	71.4
1/4	2.8	71.7
C	2.7	71.8
WL	2.6	71.9

100'S.

WL	3.3	71.2
C	3.3	71.2
1/4	3.5	71.0
1/4	3.5	71.0
1/4	3.9	70.6
C	4.7	69.8
EL	6.3	68.2
+20	8.0	66.5

27447

125's

-20	9.0	26.5
EL	7.9	66.6
C	6.7	67.8
1/4	5.5	69.0
1/2	4.8	69.7
3/4	4.2	70.3
C	4.6	69.9
WL	4.0	70.5

150's

WL	5.2	69.3
C	5.5	69.0
1/4	5.7	68.8
1/2	6.3	68.2
3/4	7.4	67.1
C	8.8	65.7
EL	10.0	64.5
+10	11.4	63.1

PLOTTED

27447

330

20

175's

-15	14.0	26.5
EL	12.4	62.1
C	10.9	63.4
1/4	9.9	64.6
1/2	9.1	65.4
3/4	8.3	66.2
C	7.6	66.9
WL	7.1	67.4

200's

WL	10.2	64.3
C	10.5	64.0
1/4	11.3	63.2
1/2	12.4	62.1
3/4	13.2	61.3
C	14.0	60.5
EL	14.9	59.6
+15	16.3	58.2

27447
T.P.rock. 12.96 261.51

1.08 262.59

225's

-15	6.6	256.0
EL	5.5	57.1
C	4.7	57.9
1/4	3.9	58.7
1/2	3.3	59.3
1/4	3.0	59.6
C	2.5	60.1
WL	2.0	60.6

250's

WL	4.9	57.7
C	5.4	57.3
1/4	5.6	57.0
1/2	6.0	56.6
1/4	6.6	56.0
1/2	7.1	55.5
EL	7.5	55.1
+10	7.5	55.1

PLOTTED

262.59

324

21

275's

-10	7.7	252.9
EL	9.5	53.1
C	9.0	53.6
1/4	8.9	53.7
1/2	8.7	53.9
1/4	8.4	54.3
C	8.1	54.6
WL	8.0	54.6

300's = NL Fir St 80' W.

WL	10.5	52.1
C	10.7	51.9
1/4	10.7	51.9
1/2	10.7	51.9
1/4	10.9	51.7
C	11.1	51.5
EL	11.5	51.1
T.P.rock	12.95	247.64

0.09 249.73

249.73

S.L. Fir St

131 Pt. Fir St. Hub	5.04	244.69	(original) 244.79
EL	6.4	43.3	
C	7.2	42.5	
1/4	9.0	40.7	
1/2	10.1	39.6	
3/4	9.4	40.3	
C	8.8	40.9	
WL	12.3	37.4	

Sec. Fir St x Secs for Slope West.

up.	25' S. of Fir	
-30	17.0	30.7
-20	25.3	24.4
-10 bot.	26.1	26.8
WL	16.3	33.4
+10	12.0	37.7
C	13.5	36.2
1/4	18.8	30.9
1/2	22.9	27.3
3/4	19.3	30.4
1/4	11.7	38.0
C	10.8	38.9
EL	10.1	39.6

PLOTTED

249.73

334

22

T. Prock.

12.58 237.15

1.42 238.57

50' S.

EL	1.2	237.4
13	1.4	237.3
C	8.2	30.4
1/4	11.1	27.5
1/2	14.1	24.5
3/4 bot.	18.8	19.8
C	12.4	26.2
WL	6.9	31.7
+11	13.0	25.6
+28 bot.	23.0	15.6
+40	18.0	20.6
-60	75'	
-50	26.4	12.2
	28.2	10.4
-30 bot.	31.3	20.3
-8	11.0	27.6
WL	10.3	28.3

23857

+10	180	2256
C	184	212
+10	200	186
1/4	23.1	155
+8	24.8	13.8
⊖	23.8	14.8
1/4	15.7	22.9
C	9.7	22.9
EL	5.0	33.6

100's.

-10	100	286
EL	150	236
C	20.1	185
1/4	24.0	146
⊖	27.5	111
1/4 bot.	32.4	206.2
+6	30.0	208.6
C	24.9	13.7
WL	20.5	181
+10	19.6	19.0
+9.5	24.9	13.7

PLOTTED

Slopes uniformly to bot. no further.

23857

334

28

125's		
-65	38.0	200.6
-50 bot.	44.5	194.1
-15	32.8	205.8
WL	36.0	202.6
C = bot. cañon.	36.5	202.1
+7	34.7	203.9
1/4	31.6	307.0
⊖	25.2	13.4
1/4	17.8	20.8
C	12.9	25.7
EL	8.3	30.3

140's.

EL	8.0	20.6
C	13.1	25.5
1/4	16.7	21.9
⊖	23.1	15.2
1/4	29.1	209.5
C	34.2	304.4
+5	37.4	301.2

238.57

EL bot.	426	196.0
+15	416	97.0
+37 bot	455	93.1
+45	440	94.6
Uphill		
" "	150's	
↑		
-40	440	94.6
-30 bot.	465	92.6
-10	44.1	94.5
WL	400	98.6
+4	37.4	71.3
C	32.6	206.0
1/4	27.7	210.9
1/4	20.8	17.8
1/4	16.8	21.8
C	13.5	25.1
EL	7.9	30.7

175's

EL	116	27.0
C		

PLOTTED

238.58

334

24

T.P. rock.	12.74	225.84
0.26	226.10	
C	2.5	23.6
1/4	5.6	20.5
1/4	8.6	17.5
1/4 +10	13.5	15.6
1/4	11.5	14.6
C	16.6	209.5
WL	21.9	204.2
+25	35.3	190.8
+30 bot.	35.4	90.7
+40	30.2	95.9
Uphill		
" "	200's	
↑		
-45	35.2	90.9
-35 bot.	38.0	88.1
-30	36.8	89.3
WL	24.1	203.0
C	19.0	207.1
1/4	15.8	210.3

22610

EL	12.1	214.0
1/4	10.0	16.1
C	7.0	19.1
EL	2.7	23.4

275'S.

EL	6.0	20.1
C	8.9	17.2
1/4	13.1	13.0
EL	18.1	8.0
1/4	22.4	203.7
C	26.0	200.1
WL ^{+J} ₇₆	27.1	202.2
	28.2	99.9
	31.7	91.4
+10 bot	39.4	86.7
+20 "	39.6	86.5
+30	37.0	89.1
uphill		

PLOTTED

22610

2304

250'S.

25

uphill		
-35	36.4	189.7
-25 bot	40.0	86.1
W EL	39.9	86.2
C	33.0	93.1
1/4	27.2	98.9
EL	21.8	204.3
1/4	16.7	209.4
C	12.3	213.8
EL	7.7	18.4

275'S.

T.P. rock	12.54	213.56
0.81	214.37	
EL	1.3	13.1
C	3.8	10.6
1/4	8.8	205.6
EL	16.4	198.0
1/4	22.0	92.4

21437

C	14.2	200.3
+6	28.4	186.0
WL	30.0	84.4
+15	26.0	88.4
Uphill		

300' S - N.L. Elm St. 80' Wide

-15	27.0	87.4
-05	31.0	83.4
WL	32.1	82.3
C	31.0	83.4
1/4	26.2	88.3
±	20.6	93.8
1/4	15.0	99.4
±	10.4	204.0
EL	8.5	205.9
T.P. rock	12.88	201.49

0.3A 201.83

PLOTTED

20183

834

26

S.L. Elm St.

WL	5.2	196.6
C	9.1	92.7
1/4	13.8	88.0
±	17.0	84.8
1/4	23.1	78.7
C	25.7	74.1
EL	26.0	75.8

For slopes E see XSecs. Elm St.

25' S of Elm St.

-25	28.1	73.7
EL	21.6	80.3
C	18.8	83.0
1/4	15.0	86.8
±	9.7	92.1
1/4	5.2	94.6
C	1.7	210.1
T.P.	0.26	201.57

12.57 214.19

WL 10.5 203.6

214.14

50'S.

WL	4.3	2098
C	7.0	207.1
1/4	10.9	203.2
⊕	15.0	199.1
1/4	18.2	95.9
C	22.3	91.8
EL	25.5	88.6
+25	30.0	84.1

75'S.

-25	19.0	95.1
EL	15.3	98.9
C	12.4	201.7
1/4	9.8	204.3
⊕	7.0	207.1
1/4	3.9	210.2
C	1.0	213.1
WL	-0.6	214.7

214.14

T.P. rock

0.34 213.80

27

12.92 226.72

100'S

WL	7.2	219.5
C ^w	7.9	18.8
1/4 ^w	10.0	15.7
⊕	11.6	15.1
1/4	13.8	12.9
C	14.4	12.3
EL	16.0	10.7
+10	19.0	207.7

125'S

-10	7.6	19.1
EL	6.4	20.3
C	4.9	21.8
1/4	3.8	22.9
⊕	3.5	23.2
1/4	3.3	23.4
⊕	2.9	23.9
WL	2.1	24.6

226.72

T.P. rock

0.76 225.96

1290 238.86

150'S.

WL	11.2	227.7
C	11.6	27.3
1/4	12.1	24.8
1/4	12.6	24.3
1/4	13.0	25.9
C	13.4	25.5
EL	13.9	25.0
+10	14.6	24.3

175'E.

-10	12.5	26.4
EL	11.5	27.4
C	10.8	28.1
1/4	10.3	28.6
1/4	9.9	29.0
1/4	9.8	29.1
C	9.9	29.5
WL	9.1	29.8

PLOTTED

238.86

330'

200'S.

28

WL	7.1	331.8
C	6.1	32.8
1/4	5.6	33.3
1/4	6.0	32.9
1/4	6.9	32.0
C	8.2	30.7
EL	9.1	29.8
+10	9.5	29.4

225'S.

-10	7.1	31.8
EL	6.4	32.5
C	5.8	33.1
1/4	4.8	34.1
1/4 +10	4.1	34.8
1/4	4.6	34.3
1/4	5.0	33.9
C	5.7	33.2
WL	6.4	32.5

23886

250'S.

WL	55	3334
C	44	345
1/4	40	349
±	37	352
1/4 + 1/4	29	360
1/4	33	356
⊖	42	347
+1	37	352
EL	12	347

275'S.

EL	30	359
C	24	365
+1	30	359
1/4	24	365
+1/2	21	368
±	27	362
1/4	31	358
C	36	353
WL	42	347

PLOTTED

23886

234

300'S - NL Date 80 Wide 29

WL	35	3354
C	30	359
1/4	24	365
±	14	375
1/4	17	372
C	2.12	348
	1.55	374
EL	17	372
T.P. NE Cor Pub.	164	237.22

513 242.35

S-L Date St.

EL	39	385
C	43	381
1/4 + 1/4	48	376
1/4	46	376
±	49	375
1/4	56	368
C	61	363
WL	67	357

24235

25' S of U6te

WL	7.1	35.3
C	6.7	35.7
1/4	6.3	36.1
±	5.7	36.7
1/4 ⁺¹²	4.9	37.5
1/4	5.1	37.3
C	5.2	37.2
	4.6	37.8
EL	4.4	38.0

50' S

EL	4.5	37.9
C ⁺¹³	5.0	37.4
	5.6	36.8
1/4 ⁺¹²	5.1	37.3
±	5.1	37.3
	5.5	36.9
1/4	5.8	36.6
C	6.4	36.0
WL	7.2	35.3

75' S

WL	7.2	35.3
C	6.6	35.8

PLOTTED

24235

334

30

1/4	6.1	36.3
±	5.7	36.7
+1	5.0	37.4
1/4	5.2	37.2
C	5.5	36.9
+1	4.9	37.6
EL	4.8	37.6

100' S

EL	4.8	37.6
±	5.2	37.2
±1	5.8	36.6
1/4	5.4	37.0
+12	5.2	37.2
±	5.7	36.7
1/4	6.0	36.4
C	6.5	35.9
WL	7.1	35.3

24235

125'S

WL	6.9	235.5
C	6.1	34.3
1/4	5.8	34.4
±	5.8	34.4
+1	5.2	37.2
1/4	5.5	34.9
+12	6.0	34.4
C	5.2	37.2
EL	5.1	37.3

150'S

EL	4.2	38.2
C	4.3	38.1
+2	5.5	34.9
1/4	5.6	34.8
+12	5.5	34.9
±	6.0	34.4
1/4	6.2	34.2
C	6.5	35.9
WL	6.9	35.5

PLOTTED

24235

334

175'S

31

WL	6.9	235.5
C	6.5	35.9
1/4	6.2	34.2
±	5.7	34.7
1/4	5.7	34.7
+12	6.2	34.2
C	5.8	34.4
EL	5.4	37.0

200'S

EL	5.5	34.9
C	5.8	34.4
+2	6.4	34.0
1/4	5.7	34.7
+10	5.4	37.0
±	5.8	36.6
1/4	6.2	36.2
C	6.5	35.9
WL	6.6	35.8

24235

225'5

WL	68	3356
C	65	359
$\frac{1}{4}$	62	362
$\frac{1}{2}$	62	362
+2	55	349
$\frac{1}{4}$	59	345
+12	64	360
C	58	366
EL	57	367

250'5

EL	61	363
C	61	363
+1	68	356
$\frac{1}{4}$	62	362
C	59	365
+2	64	360
$\frac{1}{4}$	66	358

PLOTTED

24235

238

C	68	3356	22
WL	71	353	
	275'5		
WL	69	355	
C	68	356	
$\frac{1}{4}$	66	358	
+12	64	360	
$\frac{1}{2}$	61	363	
$\frac{1}{4}$	65	359	
C	70	354	
+1	63	361	
EL	63	361	
	300'5 = NL Cedar 80' W. 14' Wks.		
EL	64	360	
C	65	359	
+2	69	355	
$\frac{1}{4}$	66	358	
$\frac{1}{2}$	64	360	
+2	69	355	

24235

1/4	7.2	235.2
C	7.0	35.4
WL	7.0	35.4
T.P. Hub N.E. Cor Cedar.	6.36	235.99

136 23735

N. Curb.

WL	2.3	35.1
C	2.2	35.2
1/4	2.1	35.3
£	1.5	35.9
1/4	1.9	35.5
C	2.62	34.8
	2.15	35.8
EL	2.93	34.6
	1.95	35.1

N 1/4

EL	2.2	35.2
C	2.3	35.1
1/4	1.9	35.5
£	1.7	35.7

PLOTTED

23735

334

33

1/4	2.1	235.3
C	2.2	35.2
WL	2.4	35.0
£ Cedar:		

WL	2.6	34.8
C	2.4	35.0
1/4	2.1	35.3
£	1.9	35.5
1/4	2.1	35.3
C	2.3	35.1
EL	2.2	35.2

3 1/4

EL	2.6	34.8
C	2.6	34.8
1/4	2.4	35.0
£	1.9	35.5
1/4 Hub 1351 W	2.38	34.97
C	2.5	34.9
WL	2.8	34.6

237.35

5 Curb.

WL	2.9	344.5
C	2.6	34.8
1/4	2.4	34.0
ϕ	2.5	34.9
1/4 +3	2.0	35.4
1/4	2.5	34.9
C	3.0 } 2.6 }	34.4 34.8
EL	3.3 } 2.5 }	34.1 34.9

SL Cedar

EL	2.7	34.7
C	2.6 } 3.2 }	34.8 34.7
1/4 +11	2.6	34.8
ϕ	2.0 } 2.5 }	34.4 34.9
1/4	2.5	34.9
C	2.5	34.9
WL	3.1	34.4

PLOTTED

237.35

334

34

25' S of Cedar

WL	3.7	333.7
C	3.3	34.1
1/4	3.0	34.4
ϕ	3.0	34.4
+2	2.5	34.9
1/4	2.9	34.5
+12	3.5	33.9
C	2.9	34.5
EL	2.8	34.6

50' S

EL	3.1	34.3
C	3.3	34.1
+2	3.9	33.5
1/4	3.4	34.0
ϕ	3.2	34.7
1/4	3.6	33.8
C	4.1	33.3
WL	4.5	32.9

23

23735

75'S

WL	52	332.2
C	54	332.0
1/4	4.8	332.6
£	4.3	333.1
+1	3.7	333.7
1/4	4.1	333.3
+12	4.5	332.9
C	3.9	333.5
EL	3.7	333.7

100'S

EL	4.3	333.1
C	4.6	332.8
+1	5.3	332.1
1/4	5.0	332.4
1/4 +12	4.7	332.7
£	5.0	332.4
+10	6.3	31.1
1/4	6.3	31.1

PLOTTED

23735

334

35

C	6.4	331.0
WL	5.9	31.5

125'S

WL	6.6	30.8
C	7.3	30.1
1/4	7.2	30.2
£	6.8	30.6
+1	6.0	31.4
1/4	6.0	31.4
+12	6.1	31.3
C	5.4	32.0
EL	5.1	32.3

150'S

EL	5.8	31.6
C	6.6	30.8
+1	7.4	30.0
1/4	7.1	30.3
£	7.6	29.8

23735

1/4	8.7	272.0
C	8.8	284
WL	8.9	29.0

175's

WL	11.1	26.3
C	10.9	24.4
1/4	10.3	27.1
E	9.4	28.0
+2	8.7	26.7
1/4	8.6	26.8
+12	8.5	26.9
C	7.9	29.5
EL	6.5	30.9

200's

EL	7.8	29.6
C	8.9	26.5
+A	9.8	27.4
1/4	9.8	27.4
+11	9.7	27.7

PLOTTED

23735

334

36

E	10.5	27.9
1/4	11.5	25.9
C	12.2	25.3
WL	12.7	24.7

225's

WL	13.8	23.6
C	13.2	24.2
1/4	12.5	24.7
+12	11.8	25.6
E	11.1	26.3
1/4	10.9	26.5
+11	11.0	26.4
C	10.0	27.4
EL	8.8	28.4

250's

EL	10.3	27.1
C	11.4	26.0
+1	12.4	25.0
1/4	12.2	25.2

23735

±	12.6	224.8
+1	13.2	242
1/4	13.8	236
c	14.2	232
WL	15.1	223
T. P. rock	12.67	224.68
253	227.21	
	275'3	
WL	6.3	20.9
±	5.5	217
1/4	4.7	225
+12	3.8	234
±	3.3	239
1/4	3.0	242
c	2.9	243
+1	2.2	250
EL	1.5	257

PLOTTED

22721

334

300' S - N. L. Beach St 88' Wide, 14' 37

EL	2.8	224.4
+13	3.5	237
c	4.2	230
1/4	4.5	227
±	4.8	224
1/4	6.2	210
c	6.9	203
WL	7.7	195
	7/1	Corb
WL	8.7	185
c	7.6	196
1/4	6.8	204
±	5.5	217
1/4	5.5	217
c	4.5	227
EL	3.5	237

22721

N 1/4

EL	4.0	2232
C	5.3	219
1/4	6.3	209
±	6.5	207
1/4	7.5	197
C	8.3	189
WL	9.3	179
± Beach		
WL	10.0	172
C	9.1	181
1/4	8.2	190
±	7.1	201
1/4	7.0	202
C	6.4	208
EL	5.2	220

PLOTTED

22721

3204

S 1/4

EL	6.1	221.1
C	7.2	20.0
1/4	7.7	19.5
±	8.0	19.3
1/4	8.8	18.4
C	7.8	17.4
WL	10.9	16.3
S Curb		
WL	11.9	15.3
C	11.0	14.2
1/4	10.1	17.1
±	9.1	18.1
1/4	8.7	18.5
C	8.3	18.9
EL	7.0	20.2

22721

5L Beech

EL	7.7	219.5
+13	8.5	187
C	9.1	18.1
+1	9.5	17.7
1/4	9.7	17.5
⊖	10.1	17.1
1/4	11.1	14.1
C	12.2	15.0
	11.9	15.2
WL	12.8	14.4

25'S of Beech.

WL	14.8	12.4
C	13.8	13.4
+1	14.2	13.0
1/4	13.1	14.1
⊖	12.2	15.0
1/4	11.5	15.7
C	11.1	16.1
+1	9.7	17.5
EL	9.3	17.9

PLOTTED

22721

334

39

T.P.

11.89 215.32

0.50 215.82

50'S

EL	-0.4	216.2
C	0.5	15.3
+1	1.8	14.0
1/4	2.0	13.8
⊖	2.6	13.2
1/4	3.6	12.2
C	5.2	10.6
+1	4.2	11.6
WL	5.7	10.1

75'S

WL	8.1	207.7
+13	7.0	208.8
C	7.4	208.4
1/4	5.8	10.0
⊖	4.8	11.0

21582

1/4	4.3	211.5
+12	3.7	12.1
C	2.8	13.0
EL	1.7	14.1
	100'5	
EL	4.0	11.8
C	4.7	11.1
+1	6.1	20.97
1/4	6.1	9.7
€	9.1	8.7
1/4	8.0	7.8
C	9.7	4.1
+2	9.1	4.7
WL	9.7	6.1
	125'5	
WL	11.7	4.1
+11	10.9	4.9
C	11.4	4.4
1/4	10.2	5.6

PLOTTED

21582

334

40

€	9.3	20.5
1/4	8.6	7.3
+12	8.1	7.7
C	7.4	8.4
+1	6.5	9.3
EL	5.6	10.3
	150'5	
EL	8.7	7.1
C	9.4	6.4
+1	10.8	5.0
1/4	11.1	4.7
€	11.6	4.9
1/4	12.2	3.4
+12	13.2	2.6
C	13.0	2.8
WL	13.4	2.4
	175'5	
WL	15.1	200.7
C	14.8	201.0
+1	15.1	200.7

21582

1/4	14.5	2013
±	14.2	2016
1/4	13.4	2024
+12.	13.3	2025
C	12.4	2034
EL	11.4	2044
T.P.	12.77	203.05

0.37 203.42

200'S.

EL	1.8	2016
+13	2.1	2007
C	3.5	1999
1/4	3.6	998
±	4.0	994
1/4	4.4	990
C	4.8	986
+1	4.3	991
WL	4.5	989

PLOTTED

20342

334

41

225'S.

WL	63	1971
C	67	967
1/4	62	973
±	63	971
1/4	60	974
C	60	974
+1	54	980
EL	45	989

250'S.

EL	68	966
+13	73	961
C	82	957
1/4	80	954
±	84	950
1/4	84	950
C	86	948
WL	87	957

20342

275'S

WL	8.2	195.3
+13	9.0	914
C	9.6	938
$\frac{1}{4}$	10.1	933
$\frac{1}{4}$	10.2	932
$\frac{1}{4}$	10.3	931
$\frac{1}{4}$	10.5	929
C	10.3	931
+2	9.5	939
EL	9.0	944

300'S = NL Ash 80'W 14'WKs.

EL	11.2	922
+10	11.8	916
C	12.7	907
$\frac{1}{4}$	12.2	912
$\frac{1}{4}$	12.0	914
$\frac{1}{4}$	11.5	919
C	11.2	922
+2	10.1	933
WL	9.5	939

PLOTTED

20342

334

12

N Carb.

WL	10.12	1933
	11.25	918
+10	11.67	924
	12.0	914
C	11.9	915
$\frac{1}{4}$	12.2	912
$\frac{1}{4}$	12.8	906
$\frac{1}{4}$	13.1	903
C	13.3	901
EL	13.3	901
T.P. rock NE Carb of Peak Ash	12.85	190.57
	6.57	197.14
T.P. rock	12.61	184.53
	0.92	185.45
Hub SW Cor. Barrier + Ash =	7.72	177.73
		177.77
		177.75
		04
	0.78	191.35
	N $\frac{1}{4}$	
EL	1.8	189.4
C	1.8	89.4

19135

1/4	16	1898
£	13	901
1/4	12	903
C	06	908
WL	04	910
£ Ash St.		
WL	11	903
C	16	898
1/4	18	896
£	22	893
1/4	23	891
C	24	890
EL	26	888
5/4		
EL	32	883
C	32	883
1/4	31	883
£	31	883
1/4	28	884

PLOTTED

19135

534

43

C	23	1891
WL	19	895
S Corb.		
WL	12	903
	22	893
+10	122	895
	285	886
C	33	881
1/4	41	873
£	41	870
1/4	42	873
C	43	871
EL	42	873
SL Ash		
EL	57	857
C	58	853
1/4	56	858
£	56	858
1/4	55	859
C	54	855
+3	30	884
WL	21	893

19135

25' S of Ash

WL	3.3	1881
+12	4.5	86.9
C	7.0	844
1/4	7.3	841
±	7.8	836
1/4	7.8	836
C	8.2	832
+2	7.7	837
EL	7.8	836

50' S

EL	9.4	830
+9	9.8	816
+12	10.9	805
C	10.7	807
1/4	10.7	807
±	9.9	815
1/4	9.3	831
C	8.9	835
+1	8.8	836
+3	5.5	859

PLOTTED

19135

332

14

WL 56 185.8

75' S

WL	6.6	84.8
+12	7.5	83.9
+13	11.0	804
C	11.0	804
1/4	11.5	79.9
±	12.7	78.7
1/4	12.7	78.7
C	12.7	78.7
+3	12.5	78.9
+4	11.5	79.9
EL	10.7	80.7

100' S

EL	11.8	79.6
+11	13.2	78.2
C	14.7	76.7
1/4	15.25	76.3

19135

Φ	15.3	176.1
1/4	14.8	76.6
C	14.7	76.7
+4	10.6	80.8
WL	8.8	83.6
T.P.	12.88	178.47
0.42	178.89	
	125'S	
WL	-1.0	179.9
+5	0.1	178.8
C	4.5	74.4
1/4	5.1	73.8
Φ	5.7	73.2
1/4	5.3	73.6
C	4.3	74.6
+2	2.8	76.1
+9	1.0	77.9
EL	0.5	78.4

PLOTTED

17889

33rd

45

150'S

EL	1.8	177.1
+12	3.8	75.1
C	6.9	72.0
1/4	7.6	71.3
Φ	8.2	70.7
1/4	8.4	70.8
C	7.8	71.1
+1	7.5	71.4
WL	1.3	77.6
	175'S	
WL	5.5	48.4
+12	10.2	48.7
C	11.0	47.9
1/4	11.8	47.1
Φ	10.9	48.0
1/4	9.6	69.3
C	9.1	69.8
+1	9.2	69.7
+3	5.5	73.4
EL	3.8	75.1

17889

200's

EL	51	1738
+10	68	721
+12	10.7	682
C	11.1	678
1/4	120	649
⊖	140	649
1/4	144	645
C	130	659
+3	128	661
+5	112	677
WL	9.7	692

225's

WL	122	667
C	152	637
1/4	168	621
⊖	157	632
1/4	136	653
C	120	669

PLOTTED

17889

33rd

46

+2	78	171.1
EL	56	733
T.P.	10.55	168.34

0.98 169.32

240's

EL	-2.5	171.8
C	4.5	164.8
1/4	64	629
⊖	7.9	614
1/4	9.7	596
C	7.9	619
WL	32	661

250's

WL	28	665
+10	57	636
C	80	613
+5	104	589
1/4	70.6	587

16932

±	9.7	1586
1/4	8.5	408
C	7.2	421
EL	3.6	65.7
260'S.		
-10	7.0	423
EL	8.6	40.7
C	10.4	58.9
1/4	11.9	57.4
±	12.2	57.1
1/4	11.6	57.7
C	6.6	42.7
WL	2.5	66.8
275'S.		
WL	2.9	66.4
C	6.4	42.9
1/4	9.7	59.6
±	12.8	56.5
1/4	14.2	55.1
1/4	13.8	55.5
C	12.3	57.0

PLOTTED

16932

33rd

EL	10.6	1587	47
+10	7.7	41.6	
300'S. of Ash.			
-10	7.0	423	
EL	7.7	41.6	
C	13.4	55.9	
1/4	16.8	57.5	
±	15.8	53.5	
+10	11.2	58.1	
1/4	10.1	59.2	
C	7.3	62.0	
WL Hub B1 Cor.	43.7	164.95	
T.P.	0.55	168.77	
1266 181.43			
T.P.	0.32	181.11	
12.27 193.38			
T.P. rock N.E. Cor. Ash.	2.81	190.57	190.57
Checks OK.			
West 11/13/13.			

48

11
18
13
west

X Sec Gregory St. 80' Wide, 1/4' Wk
S. L. Nutmeg to A St.

29469

49

13' Pt. Nutmeg + 33rd St. 300.33

1.74 302.07

F.P. rock 12.97 289.10

0.57 289.67

T.P. rock 6.49 283.18

11.51 294.69

S. L. Nutmeg St.

WL 6.5 288.3

C 5.8 88.9

1/4 Hub 5.20 89.5

E 4.8 89.9

1/4 4.4 90.3

C 4.1 90.6

EL 4.0 90.7

25' S. of Nutmeg

EL 4.6 90.1

C 4.9 89.8

1/4 5.3 89.4

PLOTTED

4 5.5 289.3

1/4 6.1 88.6

C 6.8 87.9

WL 7.6 87.1

50' S.

WL 8.9 85.8

C 7.6 87.1

1/4 7.0 87.7

E 6.3 88.4

1/4 6.0 88.7

C 5.6 89.1

EL 5.2 89.5

75' S.

EL 6.1 88.6

C 6.5 88.8

1/4 6.1 87.8

E 7.2 87.5

1/4 8.0 86.7

C 8.8 85.9

WL 10.6 84.1

1/4 11.4 83.3

29469

100'S

-10	13.0	281.7
WL	11.9	828
C	10.2	845
1/4	8.9	858
1/4	8.3	864
1/4	7.7	870
C	7.2	875
EL	6.8	879

125'S

EL	7.6	871
C	8.2	865
1/4	8.7	860
1/4	9.3	854
1/4	10.4	843
C	11.7	83.0
WL	13.3	81.4
+10	15.0	79.7

PLOTTED

29469

150'S

50

-10	15.9	278.8
WL	14.9	798
C	13.0	817
1/4	11.5	832
1/4	10.3	844
1/4	9.7	850
C	9.0	857
EL	8.6	861
T.Prak.	10.59	284.10

4.57 288.67

175'S

EL	3.6	851
C	4.1	846
1/4	4.8	839
1/4	5.7	830
1/4	6.7	820
C	8.3	804
WL	9.8	789
+10	11.4	773

28867

ID	200's		
-10	13.1	275.6	
WL	11.3	774	
C	9.1	796	
1/4	7.8	80.9	
±	6.5	823	
1/4	5.6	83.1	
C	5.0	837	
EL	4.5	84.3	

225's

EL	5.4	833	
C	6.1	82.6	
1/4	6.9	81.8	
±	7.7	81.0	
1/4	8.8	79.9	
C	10.5	78.2	
WL	12.4	76.3	
+10	14.2	74.5	

PLOTTED

28867

51

250's

-10	15.2	273.5	
WL	13.2	705	
C	11.2	775	
1/4	9.6	79.1	
±	8.5	80.3	
1/4	7.9	80.8	
C	7.1	81.6	
EL	6.6	82.1	

275's

EL	7.6	81.1	
C	8.2	80.5	
1/4	8.8	79.9	
±	9.7	79.0	
1/4	10.9	77.8	
C	12.2	76.5	
WL	14.2	74.5	
+10	16.2	72.5	

28867

300' S. = NL Maple.
80' W - 14' Wks.

-10	18.1	2706
WL	15.9	728
C	13.4	753
1/4	12.1	766
1/2	11.1	776
3/4	10.0	787
C	9.3	794
EL	8.6	801
T.P.	9.75	278.92

0.29 279.21

N-Curb

EL	-0.2	794
C	0.5	787
1/4	1.3	779
1/2	2.3	769
3/4	3.6	756
C	5.5	737
WL	8.2	710
+10	9.7	685

PLOTTED

27921

N/A

52

-10	10.6	2686
WL	8.9	703
C	6.7	725
1/4	4.8	744
1/2	3.2	760
3/4	2.1	771
C	1.1	781
EL	0.4	788

E Maple

EL	0.9	783
C	1.5	777
1/4	2.4	768
1/2	3.9	753
3/4	5.8	734
C	7.5	717
WL	9.7	695
+10	12.0	672

27921

S/A

-10		13.0	766.3
WL		11.1	48.1
C		8.6	70.6
1/4	Hub.	6.77	272.44
±		4.9	74.3
1/4		3.5	75.7
C		2.3	76.9
EL		1.5	77.1
	S. Curb.		
EL		2.2	77.0
C		3.2	76.0
1/4		4.3	74.8
±		5.7	73.5
1/4		7.7	71.5
C		9.6	69.6
WL		11.8	67.4
+10		13.5	65.7

PLOTTED

27921

S.L. Maple

53

-10		14.4	264.8
WL		13.0	66.2
C		11.0	48.3
1/4		8.6	70.6
±		6.8	72.4
1/4		5.9	73.8
C		4.0	75.3
EL		3.0	76.3
	255 of Maple.		
EL		4.1	75.1
C		5.4	73.8
1/4		6.8	72.4
±		8.4	70.8
1/4		10.3	68.9
C		12.5	66.7
WL		15.2	64.0
+10		19.0	62.2

27921

50'S

-10	19.0	360.3
WL	17.0	63.3
C	14.5	44.7
$\frac{1}{A}$	12.3	45.9
$\frac{1}{E}$	10.5	68.7
$\frac{1}{A}$	8.6	70.4
C	6.9	72.3
EL	5.4	73.8

75'S

EL	6.6	73.4
C	8.1	71.1
$\frac{1}{A}$	10.1	69.1
$\frac{1}{E}$	12.2	67.0
$\frac{1}{A}$	14.3	64.9
C	16.2	63.0
WL	18.6	60.4
+20	23.2	56.0

PLOTTED

27921

100'S

-20	26.2	253.0
WL	21.6	57.4
C	18.2	61.0
$\frac{1}{A}$	15.6	63.6
$\frac{1}{E}$	14.1	65.1
$\frac{1}{A}$	12.1	67.1
C	10.0	69.2
EL	8.0	71.2

125'S

EL	9.4	69.8
C	12.0	67.3
$\frac{1}{A}$	14.7	64.5
$\frac{1}{E}$	16.3	62.9
$\frac{1}{A}$	18.0	61.2
C	20.5	58.7
WL	23.6	53.3
+20	30.0	49.2

54

27921

150'S.

-20	31.4	247.8
WL	25.6	53.6
C	22.9	56.3
1/4	20.2	59.0
E	18.2	61.0
1/4	16.3	62.9
C	14.6	64.6
EL	11.6	67.6
TP. rock.	12.84	266.37

026 26663

175'S.

EL	0.4	66.2
1/4	3.0	63.6
E	5.0	61.6
1/4	6.8	59.8
1/4	9.2	57.4
C	12.0	54.6
WL	15.2	51.4
+20	20.6	44.0

PLOTTED

26663

200'S

-30	26.6	240.0
-20	25.0	41.6
WL	18.3	48.3
C	15.1	51.5
1/4	12.3	54.3
E	8.8	57.8
1/4	6.5	60.1
C	4.4	62.2
EL	1.9	64.7

225'S.

EL	3.0	63.6
C	5.9	60.7
1/4	8.1	58.5
E	10.9	55.7
1/4	15.0	51.6
C	17.3	49.3
WL	20.0	46.6
+20	26.0	40.6

55

26663

250's

-20	27.0	3396
WL	21.9	447
C	19.0	476
1/4	16.2	504
1/2	12.6	54.0
1/4	9.1	57.5
C	7.0	59.6
EL	4.3	63.3

275's

EL	5.9	60.7
C	8.2	58.4
1/4	10.6	54.0
1/2	14.4	53.3
1/4	17.1	49.5
C	20.0	46.6
WL	22.4	44.3
+20	29.0	37.6
+25	27.4	37.2
+30	32.0	34.6

PLOTTED

26663

56

300's - NL Laurel - 80' Wide, 14' Wks.

-20	30.0	236.6
WL	24.0	42.6
C	21.2	45.4
1/4	18.6	48.0
1/2	16.0	50.6
1/4	12.4	54.2
C	10.0	56.6
EL	7.8	58.8

N. Curb.

EL	8.5	58.1
C	11.1	55.5
1/4	13.5	53.1
1/2	17.3	49.3
1/4	20.1	46.5
C	22.6	44.0
WL	26.0	40.6
+20	31.8	34.8

266.63

N/A

-20	33.0	388.6
WL	27.1	395
C	24.1	425
1/4	21.5	451
1/2	18.3	483
3/4	14.6	520
C	11.7	549
EL	9.3	573
T. Prock.	1060	256.03

0.73 256.76

1/2 Laurel.

EL	0.3	565
C	2.8	540
1/4	6.6	503
1/2	9.8	470
3/4	13.0	438
C	15.1	417
WL	18.7	38.1
+20	25.0	31.8

FLUTTER

256.76

S/A

57

-20	26.0	230.8
WL	20.5	363
C	16.6	402
1/4	14.1	42.7
1/2	11.3	45.5
3/4	8.1	48.7
C	4.1	52.7
EL	1.3	55.5

S-Corb.

EL	2.2	54.6
C	6.3	525
1/4	9.4	474
1/2	12.9	439
3/4	16.0	408
C	18.8	38.0
WL	22.0	34.8
+20	28.2	28.4

25676

SL Laurel

-20	32.0	324.8
WL	23.6	33.2
C	20.4	34.4
1/4	17.3	39.5
1/2	14.8	42.0
3/4	11.0	45.8
C	7.8	49.0
EL	3.2	53.6

75'S of Laurel

EL	4.7	53.1
C	10.5	46.3
1/4	14.0	42.8
1/2	16.7	40.1
3/4	20.0	36.8
C	23.0	33.8
WL	27.0	29.8
+20	34.6	23.2
+40 bot	42.0	14.8

PLOTTED

25676

58

Uphill

↑

50'S

-38 bot Canon	44.8	212.0
WL	30.0	34.8
C	26.4	30.4
1/4	23.5	33.3
1/2	20.5	34.3
3/4	17.7	39.1
C	13.0	43.8
EL	8.4	48.4

75'S

EL	11.3	45.5
C	16.2	40.6
1/4	20.1	36.7
1/2	23.6	33.2
3/4	26.4	30.4
C	29.0	27.8
WL	32.1	24.7
+50 bot	46.0	10.8
↑ uphill		

Uphill: 256.76
 ↑ 100' S

-45 - bot. Canon

	47.6	209.2
WL	33.7	23.1
C	31.4	25.4
1/4	29.0	27.8
1/4	26.0	30.9
1/4	23.0	33.9
C	18.9	37.9
EL	13.8	43.0
T.P. rock	12.43	244.33

106 245.39

125' S.

EL	4.1	41.3
C	10.1	35.3
1/4	14.1	31.3
1/4	17.7	27.7
1/4	20.1	25.3
C	22.6	22.8
WL	26.0	19.4
+30 - bot. Canon	38.0	207.4

PLOTTED

245.39

Uphill
 ↑ 150' S.

-30
 -20 bot.

	36.0	209.4
	38.2	207.2
WL	32.0	13.4
C	28.4	17.0
1/4	24.5	20.9
1/4	20.3	25.2
1/4	16.1	29.3
C	11.2	34.2
EL	5.5	39.9

175' S.

EL	7.6	37.8
C	13.2	32.2
1/4	18.2	27.1
1/4	23.7	21.7
1/4	28.2	17.2
C	32.0	13.4
WL	36.7	208.7
+10 bot	39.2	206.2
+20 uphill	36.0	209.4

24539

200'S

-20	36.0	209.4
WL	39.0	206.4
+3 bottom	40.0	205.4
C	32.7	203.7
1/4	29.9	155.5
±	24.9	205.5
1/4	19.8	256.6
C	16.0	29.4
EL	11.1	34.3
T.P. rock 2'S of EL	11.80	233.57

069 234.23

225.5

EL	4.8	229.4
C	8.9	25.3
1/4	12.3	21.9
±	15.0	19.7
1/4	19.5	14.7

PLOTTED

23423

60

Eurb	23.5	210.7
WL	28.5	205.7
+5 bottom	30.0	204.2
+25	26.0	208.2

uphill 250'S

-30	26.0	208.2
-20 bottom	31.0	203.2
WL	27.0	207.2
C	24.6	209.6
1/4	21.0	13.2
±	17.8	16.4
1/4	15.3	18.9
C	13.0	21.2
EL	8.7	25.5
T.P. rock	12.98	221.25

005 221.30

221.30

275' S.

EL	06	200.7
C	3.8	175
1/4	6.2	151
E	9.2	121
1/4	11.8	209.5
C	14.5	204.8
WL	17.1	204.2
+18	19.2	202.1
+30	13.5	207.8
up hill " "	300' S = N-L Kalmia 80 W. 14 Wks.	
-20	8.0	13.3
-15	11.5	209.8
WL	18.0	203.3
bottom		
C	20.4	200.9
1/4	17.6	203.7
E	14.0	207.3
1/4	11.4	209.9
C	9.2	212.1
EL	6.2	215.1

PLOTTED

221.30

N Curb.

61

EL	9.1	212.2
C	12.2	209.1
1/4	14.8	206.5
E	18.0	203.3
1/4 bottom	21.0	200.3
C	18.8	203.5
WL	15.6	205.7
+10	13.0	208.3
	N 1/4	
WL	12.8	208.5
C	16.4	204.9
1/4	19.1	202.2
E bottom	22.0	199.3
1/4	18.2	203.1
C	15.8	205.5
EL	12.6	208.7

22130

~~4/4~~

EL	158	205.1
C	188	202.5
1/4	210	200.3
+6 bottom	223	199.0
E	204	200.9
1/4	176	203.7
C	144	204.9
WL	9.5	11.8

S 1/4 Kalmia St.

WL	63	15.0
C	106	10.7
1/4	15.1	206.3
E	185	203.8
1/4	216	199.7
+14	226	98.7
C	216	99.7
EL	196	201.7
+10	160	205.3

PLOTTED

22130

S. Carb.

62

10	18.0	213.3
EL	23.5	197.8
+3	23.8	97.5
C	21.0	200.3
1/4	19.3	202.0
E	15.6	205.7
1/4	11.9	209.4
C	7.5	13.8
WL	3.3	18.0

S.L. Kalmia

WL	14	19.9
C	56	15.7
1/4	8.2	13.1
E	13.5	207.8
1/4	17.0	204.3
C	19.2	202.1
EL	22.8	98.5
+11 = bot	24.0	97.0
+30	18.5	202.8
up hill		

22130

uphill
↑

25' S of Kalmid.

-40	18.4	203.9
-23 bot.	24.7	196.6
EL.	21.0	200.3
C	18.8	203.5
1/4	15.0	206.3
£	11.2	10.1
1/4	8.1	13.2
C	4.0	17.3
T.P. rock.	0.39	220.91
11.13	232.04	
WL.	9.9	22.1
	50' S.	
WL	8.4	23.6
C	14.4	17.6
1/4	18.2	13.8
£	22.5	9.5
1/4	26.4	205.6
C	30.2	201.8

PLOTTED

23204

63

EL	33.2	198.8
+25 bottom	35.8	96.3
+30	34.8	97.3
+40	31.0	201.0
uphill " "	75' S.	
-40	34.4	97.4
-30	36.0	96.0
-20 bottom	37.0	92.0
EL	35.1	96.9
C	29.7	202.3
1/4	26.0	206.0
£	20.8	11.2
1/4	16.0	14.0
C	10.4	21.6
WL.	5.0	27.0

232.04
100'S

WL.	2.6	229.4
C	7.0	25.0
1/4	12.0	20.0
±	17.2	14.8
1/4	22.3	9.7
C	25.0	7.0
EL.	33.7	198.3
+10	38.0	94.0
+20	38.0	94.0
+40 bottom.	38.6	93.4
+60 uphill	35.0	97.0
	125'S.	
-75	34.0	98.0
-62 bottom.	41.0	91.0
-25	35.4	96.6
-15	33.1	98.9
EL	27.6	2044
C	23.0	2090
1/4	20.0	12.0

PLOTTED

232.04

±	14.3	2177	64
1/4	9.6	224	
C	5.2	24.8	
WL.	2.0	30.0	
	150'S		
WL	2.5	275	
C	5.6	264	
1/4	9.2	228	
±	13.0	190	
1/4	18.8	13.2	
C	23.5	2085	
EL	28.3	2037	
+15	34.0	1980	
+45 bottom.	41.8	90.2	
+60 uphill	40.0	92.0	
	175'S		
+60	40.0	92.0	
-50	42.0	90.0	
-35 bottom.	43.5	88.5	
-20	40.0	92.0	

232.04

EL	27.9	2041
C	22.7	2093
1/4	17.6	14.4
±	13.7	18.3
1/4	9.6	22.4
C	6.8	25.2
WL	3.5	28.5
200's		
WL	6.3	25.7
C	8.4	23.6
1/4	10.6	21.4
±	13.8	18.2
1/4	18.3	13.7
C	22.4	209.6
EL	26.5	205.5
+40 bot	44.3	187.7
+50 "	43.0	89.0
+75	39.0	93.0

PLOTTED

232.04

65

-80	225' S	190.0
-60 bot.	45.0	87.0
-45	41.3	90.7
-20	30.2	221.8
EL	26.4	205.4
C	23.1	208.9
1/4	21.2	10.8
±	19.3	12.7
1/4	18.4	13.6
C	16.9	15.1
WL	15.8	14.2
T. Prock.	11.8	220.19
0.65	220.84	
T. Prock.	12.86	207.98
5.93	213.71	
250's		
WL	8.1	205.8
C	7.1	206.8
1/4	6.3	207.4

21391

£	7.8	2061
1/4	9.1	2048
C	10.5	2034
EL	12.8	2011
+20	16.6	1973
Same slope for 45' further.		
275.5		
-35	25.0	88.9
-25	22.5	91.4
EL	19.8	94.1
C	18.0	95.9
1/4	16.0	97.9
£	15.8	98.1
1/4	15.4	98.5
C	16.2	97.7
WL	16.4	97.5
+25 bot	17.4	96.5
+25	16.0	97.9
-25	16.0	97.9
WL bot	17.9	96.0
C	18.1	95.8
1/4	19.1	94.8

PLOTTED

21391

66

£	19.0	194.9
1/4	21.0	93.9
C	21.4	99.5
EL	22.1	91.8
+25	24.2	89.7
300' S = NL Juniper 80' W - 14' Wks.		
-25	23.0	90.9
EL bot	22.1	91.8
C	21.0	97.9
1/4	20.8	93.1
£	20.5	93.4
1/4	18.8	95.1
C	17.4	96.5
WL	15.3	98.4
+20	13.2	200.7
N Curve		
-20	7.9	206.0
WL	11.0	207.9
C	13.4	200.5
1/4	15.5	198.4

21391

1			
£		17.2	196.7
1/4		19.0	94.9
C		19.5	94.4
EL		19.5	94.4
+20		20.5	93.4
	N. 1/4		
-10		17.0	96.9
EL		15.3	98.6
C		15.2	98.7
1/4		13.5	200.4
£		12.2	201.7
1/4		11.0	202.9
C		9.2	204.7
WL		6.6	207.3
+	£ Juniper		
WL		0.7	13.2
C		3.9	14.5
1/4		5.6	8.3

PLOTTED

21391

£		7.1	206.8
1/4		8.8	205.1
C		9.5	204.4
EL		10.8	203.1
+15		12.9	201.0
	3/4		
-10		6.7	207.2
EL		5.5	208.4
C		3.7	10.2
1/4		2.8	11.1
£		0.2	13.7
T.P. Rock		1.33	213.58
	12.03 225 61		
1/4 Hub.		9.78	215.83
C		8.2	17.4
WL		5.9	19.7
	3. Curb.		
WL		6.7	19.4
C		7.8	17.8
1/4		9.9	15.7

67

22561

£	11.7	213.9
1/4	13.8	11.8
C	15.3	10.3
EL	17.2	208.4
+15	19.2	206.4

5L Juniper

-15	19.0	206.7
EL	17.1	208.5
C	15.3	10.3
1/4	13.8	11.8
£	11.6	14.0
1/4	9.7	15.9
C	7.6	18.0
WL	5.4	20.2

2 1/3 of Juniper

WL	-3.0	228.6
C	0.5	25.1
1/4	4.0	21.4
£	7.0	18.6

PLOTTED

22561

68

1/4	9.3	216.3
C	11.0	14.4
EL	13.6	13.0
+15	16.0	9.6
T. Prack	1.25	224.36

9.59 233.95

11/3 of 5L Juniper

-15	24.0	210.0
EL	21.0	13.0
C	15.5	18.5
1/4	11.6	22.4
£	8.0	24.0
1/4	5.0	29.0
C	3.2	30.8
WL	1.0	33.0

25's

WL	2.5	31.5
C	3.5	30.5
1/4	4.0	30.0

23395

£	6.3	227.7
1/4	12.3	21.7
C	15.0	19.0
EL	20.0	14.0
+15	23.0	11.0
T.P. Hub. 50's on WL	2.53	231.42

0.25 231.67

50's

WL	0.4	31.3
C	1.1	30.6
+2	2.4	29.5
1/4	2.3	29.4
+5	2.2	29.5
£	5.3	26.4
+2	6.9	24.8
1/4	9.0	23.7
C	11.8	19.9
+8	12.2	19.5
EL	15.1	16.6
+10	18.5	13.3

PLOTTED

23167

69

75's

-20	22.3	209.4
EL	15.6	14.1
+5	12.3	19.4
C	11.6	20.1
1/4	8.9	22.9
+8	6.7	21.0
£	4.5	27.2
+5	3.1	28.6
1/4	2.9	28.8
+12	3.6	28.7
C	2.1	29.6

WL 1.5 30.2

100's

WL	2.4	29.3
C	3.2	28.5
+12	4.2	27.5
1/4	4.0	27.7
+8	4.2	27.5
£	5.7	26.0
1/4	9.3	22.4
C	11.1	20.6
+9	13.0	18.7
EL	15.8	15.9
+20	25.8	205.9

23167

125' S.

-20	29.0	207.7
-10	24.4	207.3
EL	17.0	14.7
+6	13.5	18.2
C	12.8	18.9
1/4	9.8	21.9
E	6.9	24.8
1/4 +9	5.3	26.4
1/4	5.4	26.3
+12	5.6	26.1
C	4.5	27.3
WL	3.8	27.9

150' S.

WL	5.0	26.7
C	5.8	25.9
+2	6.8	24.9
1/4	6.3	25.4
1/4 +5	5.7	26.0
E	8.7	23.0
1/4	11.8	19.9
C	14.0	17.7
+9	15.6	16.1

PLOTTED

23167

70

EL	18.8	212.9
+10	25.2	206.5
+20	29.3	202.4

175'

-20	29.9	202.3
-7	24.0	207.7
EL	19.0	12.7
+5	16.0	15.7
C	14.6	17.1
1/4	13.0	18.7
E	10.1	21.6
+9	6.8	24.9
1/4	7.4	24.3
+11	8.1	23.6
C	7.2	24.5
WL	6.1	25.6

200' S.

WL	7.2	24.5
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23167

C	7.8	223.9
+3	9.2	225
1/4	8.7	230
+4	8.4	233
E	11.5	20.2
1/4	14.0	17.8
C	15.6	16.1
+7	16.6	15.1
EL	20.0	11.7
+5	23.3	20.4
+20	28.4	20.33
	225's	
-20	29.0	20.27
-5	24.2	20.5
EL	20.4	11.3
+3	18.6	13.1
+6	17.1	14.4
C	16.7	15.0
1/4	15.1	16.6
E	12.7	19.0

PLOTTED

23167

71

+A	12.0	21.97
+9	9.5	22.9
1/4	10.0	21.7
+11	10.3	21.4
C	8.8	22.9
WL	8.2	23.5
	250's	
WL	9.3	22.4
C	10.0	21.7
+Z	11.4	20.3
1/4	11.0	21.7
+A	10.9	20.8
+10	13.1	18.3
E	14.1	17.4
1/4	16.6	15.1
C	17.8	13.9
+9	19.6	12.1
EL	23.0	20.87
+7	27.0	20.47
+20	31.9	19.8

23167

275'5

-20	33.5	198.3
-6	29.0	202.7
EL	25.9	205.8
+10	19.6	212.1
C	19.3	124
1/4	18.4	13.3
±	15.4	16.3
+9	11.8	19.9
1/4	11.9	19.8
+11	12.3	19.4
C	10.8	20.9
WL	10.3	21.4
T.P. NW. Cor. Ivy + Greg	11.13	220.54 (chids) 220.54
	300' S = NL Ivy - 50 W 14 W 6	
	0.96	221.50
WL	10	220.5
< PLUTED	18	19.7
+2	2.9	18.4
1/4	2.7	18.8

22150

72

+4	28	218.7
±	6.6	14.9
1/4	9.4	12.1
C	10.4	11.1
EL	20.0	201.5
+15	27.0	194.0
+		
	SL Ivy	
-15	40.0	181.5
EL	33.5	188.0
C	27.5	94.0
1/4	20.0	201.5
±	14.2	207.3
1/4	8.9	12.6
C	4.8	16.7
WL	2.9	18.4

22150

25' S of Ivy.

WL	9.8	211.7
C	10.7	10.8
1/4	12.5	209.0
⊖	15.6	205.9
1/4	20.7	200.8
C	28.6	192.9
EL	34.0	87.5
+15	41.0	80.5
50' S		
-20	44.0	47.5
EL	36.1	85.4
C	29.0	92.5
1/4	22.5	99.0
⊖	17.8	203.7
1/4	16.3	205.2
C	16.4	205.7
T.P.rock	12.76	208.74

PLOTTED

1.70 210.44

21044

73

WL	7.1	213.3
T.P.rock	13.01	197.43
2.71	200.14	
75' S		
WL	7.7	193.4
C	5.0	95.1
1/4	3.6	96.5
⊖	3.5	96.6
1/4	6.7	93.4
C	10.9	89.2
EL	16.9	83.7
+13	21.1	79.0
+20	23.5	76.6
100' S		
-20	24.0	76.1
EL	19.5	80.6
C	17.0	83.1
1/4	15.4	84.7

20014

±		14.2	185.9
1/4		14.3	85.8
C		15.5	84.4
WL		16.7	83.4
+10	bot Canon	19.5	80.6
+20		18.0	83.1
+30		15.7	84.4
uphill			
"	115'S		
-20		15.9	84.2
+8		19.2	80.9
WL	bot Canon	20.0	80.1
C		19.7	80.4
1/4		19.0	81.1
±		19.3	80.8
1/4		19.9	80.7
C		21.2	79.9
EL		23.2	76.9
+20		26.0	74.1

PLOTTED

20014

74

125'S

-20		26.2	173.9
EL		25.3	74.8
C		23.6	76.5
1/4		23.0	77.1
±		22.1	78.0
1/4		21.7	78.4
C	bot Canon	21.6	78.5
WL		19.1	81.0
+20		12.6	87.5
uphill			
"	140'S		
-15		11.8	88.3
WL		14.2	85.9
C		18.5	81.6
1/4		20.7	79.4
±		22.0	78.1
1/4		24.0	76.1
C	bot Canon	25.0	75.1
EL	bot Canon	26.4	73.7
+20		28.1	72.0

20014

150'S.

-20	29.6	170.5
EL	25.1	75.0
C	22.8	77.3
1/4	20.2	79.9
1/2	17.8	82.3
3/4	17.0	83.1
C	15.5	84.6
WL	12.3	87.9

175'S.

WL	3.0	97.1
C	5.2	94.9
1/4	7.0	93.1
1/2	8.3	91.8
3/4	11.2	88.9
C	14.5	85.6
EL	18.8	81.3
+20	24.1	76.0

PLOTTED

20014

75

-20	19.0	181.1
EL	11.8	88.3
C	7.0	93.1
T.P.rock.	0.37	199.77

12.89 212.66

200'S.

1/4	15.4	97.3
1/2	12.2	200.5
3/4	10.1	203.6
C	7.8	204.9
WL	5.0	207.7
T.P.rock.	0.15	212.51

13.10 225.61

225'S.

WL	8.5	17.1
C	11.8	13.8
1/4	15.6	13.0

22561

£	185	2071
1/4	21.0	2046
C	24.7	2009
EL	30.8	1948
+20	38.2	874

250's

-20.	32.8	928
EL	25.5	2001
C	19.0	2064
1/4	15.1	10.5
£	11.5	141
1/4	7.7	17.9
C	5.6	20.0
WL	2.9	22.7
T.P.rock	0.21	225.40

12.66 23806

275's

WL	10.6	275
C	13.9	242

PLOTTED

23806

76

1/4	17.1	2210
£	20.1	18.0
1/4	23.6	14.5
C	27.2	10.9
EL	33.6	2045
+20	41.8	1963

300's - NL Hawthorne 80' Wide 14' HRS.

-20	38.2	999
EL	29.6	2085
C	24.0	141
1/4	20.1	18.0
£	17.4	20.7
1/4	13.0	25.1
C	9.8	28.3
WL	6.5	31.6

11 Curb.

WL	4.4	33.7
C	7.4	30.7
1/4	10.4	27.7

238.06

£	138	294.3
1/A	17.6	20.5
C	22.0	14.1
EL	26.9	11.2
For slopes see Sec 25E on Hawthorn X Secs. for this intersection.		
N/A		
EL	26.0	12.1
C	20.2	17.9
1/A	16.3	21.8
£	11.9	26.3
1/A	8.3	29.8
C	5.8	32.3
WL	2.8	35.3

£ Hawthorne.

WL	1.6	36.5
C	4.4	33.7
1/A	8.0	30.1
£	11.5	24.4

PLOTTED

238.06

77

1/A	14.9	223.2
C	19.3	18.8
EL	25.6	12.5
S/A		
EL	25.3	12.8
C	19.1	19.0
1/A	13.0	25.1
£	9.4	28.7
1/A Hub.	5.97	232.09
C	3.2	34.9
WL	0.5	37.6
TP rock.	0.69	237.37
11.02		248.39
S carb		
WL	9.8	38.6
C	12.0	34.4
1/A	14.9	34.0
£	17.6	30.8

24839

1/4	22.0	226.4
C	26.8	21.6
EL	34.8	13.4

5L Hawthorne

EL	32.8	15.6
C	25.3	23.1
1/4	20.9	27.5
±	17.1	31.3
1/4	14.0	34.4
C	11.1	37.3
WL	8.4	40.0
Hub. SW Cor.	8.42	239.97

10-23 250.20

25' S of Hawthorne

WL	6.5	43.7
C	10.9	39.3
1/4	14.0	36.3
±	16.8	33.4

PLOTTED

250.20

28

1/4	20.1	230.1
C	24.0	26.0
EL	29.2	21.0

+20	37.4	13.8
-----	------	------

Uniform slope for 50' more

↑ " " " " 50'S.

-20	33.0	17.3
EL	25.8	24.4
C	21.0	29.2
1/4	18.1	32.1
±	15.0	34.3
1/4	12.3	37.9
+5	9.6	40.6
C	7.8	42.4
WL	4.9	45.3

75'S

WL	4.1	46.1
C	6.9	43.3
1/4	9.1	41.1
+5	10.6	39.6
+6	11.6	38.6
±	13.6	36.6
1/4	15.8	34.4

25020

C	18.9	231.3
EL	23.8	26.4
+20	30.7	19.5

100's.

-20	28.3	21.9
EL	21.0	29.2
C	17.3	32.9
1/4	15.2	35.0
E	12.6	37.6
+5	10.1	40.1
1/4	8.2	42.0
C	5.4	44.8
WL	3.0	47.2

125's.

WL	2.3	47.9
C	5.0	45.2
1/4	7.5	42.7
E	10.3	39.9
1/4	14.0	35.2
C	16.4	33.8

PLOTTED

25020

79

EL	19.4	230.8
+20	26.2	21.0

150's.

-20	23.6	26.6
EL	18.5	31.7
C	15.3	34.9
1/4	11.7	38.5
E	9.1	41.1
1/4	6.5	43.7
C	4.3	45.9
WL	2.5	47.7

175's.

WL	3.6	46.6
C	4.0	46.2
1/4	5.6	44.6
E	8.1	42.1
1/4	10.6	39.6
C	13.1	37.1
EL	16.4	33.8
+20	20.1	30.1

250'20

200'S.

-20	18.8	231.4
EL	14.9	35.3
C	11.1	39.1
1/4	9.3	40.9
E	7.5	42.7
1/4	6.2	44.0
C	5.3	44.9
WL	6.0	44.2
+10	6.4	43.8

225'S.

-10	10.5	39.7
WL	9.2	41.0
C	7.8	42.4
1/4	7.4	42.8
E	8.0	42.2
1/4	9.1	41.1
C	10.5	39.7
EL	13.1	37.1
420	16.4	33.8

PLOTTED

250'20

250'S.

-20	14.9	235.3
EL	12.0	38.2
C	10.6	39.6
1/4	9.5	40.7
E	9.2	41.0
1/4	10.0	40.2
C	11.3	38.9
WL	13.0	37.2
+10	14.0	36.2

275'S.

-10	11.5	39.7
WL	16.4	33.8
C	14.3	35.9
1/4	13.1	37.1
E	11.8	38.4
1/4	11.0	39.2
C	11.0	39.2
EL	11.8	38.4
+20	13.1	37.0

80

25020

T.P. rack. 12.49 237.71

0.99 238.70

300' S = NL Grape. 80' Wide, 14' Walks.
Int. taken on Grape St

EL 04 238.3

C 0.8 37.9

1/4 2.1 34.4

1/2 3.5 35.2

3/4 4.8 33.9

C 7.2 31.5

WL 9.2 29.5

T.P. rack. 12.98 225.72

0.30 226.02

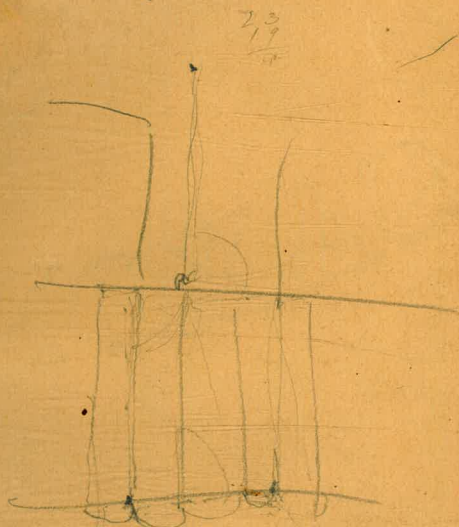
13' S + W Hub for Grape. 2.07 223.95

Cont Book 923 Page 1.

PLOTTED

Gregory + Spayde - S.W. Cor. Hub. 21168

Leave N.W. Cor. Long for child's



Intersections taken on 33rd St
 at date, Elm & Fir by Gregory

26
 244.79 = 13' Pt 33rd St Fir (Gregory)
 220.54 = Hub NW Cor Gregory + Ivy (Childs)

TRAVERSE TABLE FOR TRANSIT BOOK.
 From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.52	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.66	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							



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