807

Cross-Sections of Artic[illegible]
from D to H Sts.
Page 1 to 27

Cross-Sections of Juniper St
from Front to Park.
Page 28. to 63.

Cross-Sections of Front St.
from Fir to Maple
Page 64 to 124.

Cross-Sections of 8th St. from
University Ave. to Grant Ave.
Page 125 to 137.

Cross-Sections of 9th St. from
University Ave. to Front Ave.
Page 138 - 150

208

F.B. 208

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

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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.

MICROFILMED
OCT 8 1964

Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links
o		o		o		o	
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

208

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28-C3

Cross Section of artic St.
Between D. & H.

Shields
Lewis
Brookes

Feb. 10 1905

H.I. 12.23

	S. line D. St.	R.R. Elev.
W. line	2.5	9.7
CL	2.5	9.7
¼	2.3	9.9
¼ + 3'	2.2	10.0
¼ + 3'	2.0	10.2
¼	1.8	10.4
E CL	2.2	10.0
E line	1.2	11.0

	25' S. 20 St.	R.R.	Elev.
E line		1.4	10.8
cb		2.5	9.7
¼		2.4	9.8
¼ + 3'		2.4	9.8
¼ + 3'		2.5	9.7
¼		2.5	9.7
cb		2.6	9.6
W line		2.7	9.5
	50' S. 20. St.		
W line		2.8	9.4
cb		2.8	9.4
¼		2.6	9.6
¼ + 3'		2.8	9.4
¼ + 3'		2.7	9.5
¼		2.7	9.5
cb		2.5	9.7
E line		1.9	10.3

	75' S. 20. St	R.R	Elev.
E line		2.1	10.1
Cb.		2.8	9.4
¼		3.0	9.2
¼ + 3'		2.9	9.3
¼ + 3'		3.0	9.2
¼		3.0	9.2
cb		3.0	9.2
W line		2.9	9.3
	100' S. 20. St.		
W line		3.2	9.0
cb		3.4	8.8
¼		3.3	8.9
¼ + 3'		3.3	8.9
¼ + 3'		3.1	9.1
¼		3.2	9.0
cb		3.0	9.2
E line		2.5	9.7

125' S. 20 St.	R.R.	Elev.
E.line	2.6	9.6
cb	3.3	8.9
¼	3.3	8.9
¼ + 3'	3.3	8.9
¼ + 3'	3.5	8.7
¼	3.5	8.7
cb	3.7	8.5
W.line	3.3	8.9
150' S. 20 St.		
W.line	3.5	8.7
cb	4.5	7.7
¼	3.8	8.4
¼ + 3'	3.8	8.4
¼ + 3'	3.6	8.6
¼	3.6	8.6
cb	3.4	8.8
E.line	2.6	9.6

175' S. 20 St.	R.R.	Elev.
E.line	3.0	9.2
cb	3.8	8.4
¼	3.8	8.4
¼ + 3'	3.7	8.5
¼ + 3'	3.9	8.3
¼	3.8	8.4
cb	4.6	7.6
W.line	3.8	8.4
200' S. 20 St.		
W.line	4.0	8.2
cb	4.9	7.3
¼	4.0	8.2
¼ + 3'	4.1	8.1
¼ + 3'	4.0	8.2
¼	4.0	8.2
cb	4.0	8.2
E.line	3.3	8.9

225' S. 20 St.	R.R.	Elev.
E line	3.4	8.8
cb	4.2	8.0
1/4	4.2	8.0
1/4 + 3'	4.2	8.0
1/4 + 3'	4.3	7.9
1/4	4.2	8.0
cb	4.9	7.3
W. line	4.0	8.2

250' S. 20 St.		
W. line	4.2	8.0
cb	5.2	7.0
1/4	4.5	7.7
1/4 + 3'	4.5	7.7
1/4 + 3'	4.4	7.8
1/4	4.5	7.7
cb	4.3	7.9
E line	3.4	8.8

275' S. 20 St.	R.R.	Elev.
E line	4.1	8.1
cb	4.5	7.7
1/4	4.7	7.5
1/4 + 3'	4.7	7.5
1/4 + 3'	4.7	7.5
1/4	4.7	7.5
cb	5.3	6.9
W. line	4.3	7.9

N line E St.		
N. line	4.6	7.6
cb	5.6	6.6
1/4	4.9	7.3
1/4 + 3'	4.8	7.4
1/4 + 3'	4.8	7.4
1/4	4.8	7.4
cb	5.0	7.2
E line	4.6	7.6

S. line E. St.	R.R.	Elev.
E. line	4.5	7.7
cb	5.1	7.1
1/4	5.1	7.1
1/4 + 3'	5.1	7.1
1/4 + 3'	5.0	7.2
1/4	5.1	7.1
cb	5.0	7.2
W. line	5.0	7.2

25' So. E. St.		
W. line	4.0	8.2
cb	5.0	7.2
1/4	5.2	7.0
1/4 + 3'	5.3	6.9
1/4 + 3'	5.4	6.8
1/4	5.4	6.8
cb	5.0	7.2
E. line	4.5	7.7

50' So. E. St.	R.R.	Elev.
E. line	4.5	7.7
cb.	5.2	7.0
1/4	5.6	6.6
1/4 + 3'	5.5	6.7
1/4 + 3'	5.3	6.9
1/4	5.4	6.8
cb	5.5	6.7
W. line	5.3	6.9

75' So. E. St.		
W. line	5.7	6.5
cb	5.9	6.3
1/4	5.6	6.6
1/4 + 3'	5.5	6.7
1/4 + 3'	5.5	6.7
1/4	5.5	6.7
cb	5.4	6.8
E. line	4.8	7.4

100' So. E. St.	R.R.	Elev.
E. line	5.2	7.0
cb	5.5	6.7
1/4	5.6	6.6
1/4 + 3'	5.6	6.6
1/4 + 3'	5.6	6.6
1/4	5.7	6.5
cb	5.6	6.6
W. line	6.0	6.2

125' So. E. St.		
W. line	5.9	6.3
cb	5.8	6.4
1/4	5.8	6.4
1/4 + 3'	5.8	6.4
1/4 + 3'	5.8	6.4
1/4	5.9	6.3
cb	5.7	6.5
E. line	5.2	7.0

150' So. E. St.	R.R.	Elev.
E. line	5.0	7.2
cb	5.7	6.5
1/4	6.0	6.2
1/4 + 3'	6.0	6.2
1/4 + 3'	5.9	6.3
1/4	5.9	6.3
cb	6.0	6.2
W. line	5.9	6.3

175' So. E St.		
W. line	6.1	6.1
cb	6.2	6.0
1/4	6.0	6.2
1/4 + 3'	6.0	6.2
1/4 + 3'	6.2	6.0
1/4	6.1	6.1
cb	5.8	6.4
E. line	5.3	6.9

	200' So. E St.	R.R.	Elev.
E. line		5.6	6.6
cb		5.9	6.3
1/4		6.2	6.0
1/4 + 3'		6.2	6.0
1/4 + 3'		6.1	6.1
1/4		6.1	6.1
cb		6.4	5.8
W. line		6.1	6.1
	225' So. E. St.		
W. line		6.2	6.0
cb		6.5-	5.7
1/4		6.2	6.0
1/4 + 3'		6.2	6.0
1/4 + 3'		6.2	6.0
1/4		6.3	5.9
cb		6.1	6.1
E. line		5.5-	6.7

	250' So. E St.	R.R.	Elev.
E line		5.9	6.3
cb		6.0	6.2
1/4		6.1	6.1
1/4 + 3'		6.2	6.0
1/4 + 3'		6.6	5.6
1/4		6.5-	5.7
cb		6.5-	5.7
W. line		6.2	6.0
	275' So. E St.		
W line		6.3	5.9
cb		6.7	5.5-
1/4		6.3	5.9
1/4 + 3'		6.3	5.9
1/4 + 3'		6.3	5.9
1/4		6.3	5.9
cb		6.5-	5.7
E. line		6.1	6.1

N. line F St.	R.R.	Elev.
E line	6.3	5.9
cb	6.5	5.7
1/4	6.4	5.8
1/4 + 3'	6.4	5.8
1/4 + 3'	6.5	5.7
1/4	6.4	5.8
cb	6.9	5.3
W. line	6.4	5.8

S. line F. St.

W. line H.I. 8.91

W. line	3.7	5.2
cb	3.6	5.3
1/4	3.5	5.4
1/4 + 3'	3.5	5.4
1/4 + 3'	3.4	5.5
1/4	3.4	5.5
cb	3.7	5.2
E line	3.0	5.9

25' So. F St.	R.R.	Elev.
E line	3.1	5.8
cb	4.1	4.8
1/4	3.5	5.4
1/4 + 3'	3.6	5.3
1/4 + 3'	3.6	5.3
1/4	3.6	5.3
cb	4.0	4.9
W. line	3.9	5.0

50' So. F St.

W. line	4.0	4.9
cb	4.0	4.9
1/4	3.8	5.1
1/4 + 3'	3.8	5.1
1/4 + 3'	3.6	5.3
1/4	3.7	5.2
cb	4.2	4.7
E line	3.5	5.4

	75' So. H St.	R.R.	Elev.
E. line		3.6	5.3
cb		4.1	4.8
1/4		3.9	5.0
1/4+3'		3.9	5.0
1/4+3'		4.0	4.9
1/4		4.0	4.9
cb		4.2	4.7
W. line		4.2	4.7
	100' So. H St.		
W. line		4.4	4.5
cb		4.3	4.6
1/4		4.1	4.8
1/4+3'		4.0	4.9
1/4+3'		4.1	4.8
1/4		4.0	4.9
cb		4.5	4.4
E line		4.0	4.9

	125' So. H St.	R.R.	Elev.
E line		4.1	4.8
cb		4.5	4.4
1/4		4.0	4.9
1/4+3'		4.2	4.7
1/4+3'		4.2	4.7
1/4		4.3	4.6
cb		4.7	4.2
W line		4.5	4.4
	150' So. H St		
W line		4.8	4.1
cb		4.8	4.1
1/4		4.4	4.5
1/4+3'		4.3	4.6
1/4+3'		4.3	4.6
1/4		4.2	4.7
cb		4.5	4.4
E. line		4.1	4.8

175' So. Fl. St.	R.R.	Elev.
E line	4.2	4.7
CB	4.5	4.4
1/4	4.3	4.6
1/4 + 3'	4.4	4.5
1/4 + 3'	4.5	4.4
1/4	4.5	4.4
CB	5.1	3.8
W line	4.8	4.1
200' So. Fl. St		
W line	5.1	3.8
CB	5.2	3.7
1/4	4.6	4.3
1/4 + 3'	4.6	4.3
1/4 + 3'	4.5	4.4
1/4	4.5	4.4
CB	4.6	4.3
E line	4.0	4.9

225' So. Fl. St.	R.R.	Elev.
E line	4.2	4.7
CB	4.7	4.2
1/4	4.6	4.3
1/4 + 3'	4.6	4.3
1/4 + 3'	4.8	4.1
1/4	4.8	4.1
CB	5.3	3.6
W line	5.2	3.7
250' So. Fl. St.		
W line	5.0	3.9
CB	5.3	3.6
1/4	4.9	4.0
1/4 + 3'	4.9	4.0
1/4 + 3'	4.7	4.2
1/4	4.7	4.2
CB	4.9	4.0
E line	4.3	4.6

275' So. F St.	R.R.	Elev.
E line	4.3	4.6
cb	4.9	4.0
¼	4.9	4.0
¼ + 3'	5.0	3.9
¼ + 3'	5.0	3.9
¼	4.9	4.0
cb	5.1	3.8
W. line	5.3	3.6

N. line G. St.		
W line	5.8	3.1
cb	5.3	3.6
¼	5.0	3.9
¼ + 3'	5.0	3.9
¼ + 3'	4.9	4.0
¼	4.9	4.0
cb	5.0	3.9
E. line	4.7	4.2

So. line G. St.	R.R.	Elev.
E line	5.7	3.2
cb	5.8	3.1
¼	5.7	3.2
¼ + 3'	5.6	3.3
¼ + 3'	5.5	3.4
¼	5.4	3.5
cb	6.2	2.7
W line	5.7	3.2

25' So. G St		
W line	6.3	2.6
cb	6.3	2.6
¼	5.5	3.4
¼ + 3'	5.6	3.3
¼ + 3'	5.7	3.2
¼	5.9	3.0
cb	6.2	2.7
E. line	6.1	2.8

50' So. G St.	R.R.	Elev.
E line	6.3	2.6
CL	6.4	2.5
¼	6.0	2.9
¼ + 3'	5.9	3.0
¼ + 3'	5.6	3.3
¼	5.6	3.3
CL	6.2	2.7
W line	6.4	2.5

75' So. G. St		
W line	6.5	2.4
CL	6.1	2.8
¼	5.8	3.1
¼ + 3'	5.9	3.0
¼ + 3'	6.1	2.8
¼	6.3	2.6
CL	6.3	2.6
E line	6.4	2.5

100' So. G. St.	R.R.	Elev.
E line	6.3	2.6
CL	6.6	2.3
¼	6.4	2.5
¼ + 3'	6.3	2.6
¼ + 3'	6.0	2.9
¼	5.9	3.0
CL	6.6	2.3
W line	6.4	2.5

125' So. G. St.		
W line	6.5	2.4
CL	6.6	2.3
¼	6.2	2.7
¼ + 3'	6.1	2.8
¼ + 3'	6.3	2.6
¼	6.5	2.4
CL	6.4	2.5
E line	6.0	2.9

150' So. G St	R.R.	Elev.
E line	6.4	2.5
CL	6.7	2.2
¼	6.7	2.2
¼ + 3'	6.6	2.3
¼ + 3'	6.3	2.6
¼	6.1	2.8
CL	6.7	2.2
W line	6.6	2.3
175' So. G St.		
W line	6.9	2.0
CL	7.0	1.9
¼	6.4	2.5
¼ + 3'	6.5	2.4
¼ + 3'	6.8	2.1
¼	6.9	2.0
CL	7.0	1.9
E line	6.8	2.1

200' So. G. St.	R.R.	Elev.
E line	6.8	2.1
CL	7.4	1.5
¼	7.2	1.7
¼ + 3'	7.0	1.9
¼ + 3'	6.7	2.2
¼	6.7	2.2
CL	7.2	1.7
W line	7.4	1.5
225' So. G St.		
W line	7.3	1.6
CL	7.5	1.4
¼	6.9	2.0
¼ + 3'	6.8	2.1
¼ + 3'	7.2	1.7
¼	7.4	1.5
CL	7.5	1.4
E line	6.6	2.3

250' So. G St.	R.R.	Elev.
E. line	6.7	2.2
CL	7.5	1.4
¼	7.2	1.7
¼ + 3'	7.1	1.8
¼ + 3'	7.0	1.9
¼	6.9	2.0
CL	7.6	1.3
W. line	7.8	1.1
275' So. G. St.		
W. line	8.1	0.8
CL	7.7	1.2
¼	7.1	1.8
¼ + 3'	7.2	1.7
¼ + 3'	7.0	1.9
¼	7.0	1.9
CL	7.2	1.7
E. line	6.3	2.6

N. line H. St.	R.R.	Elev.
E. line	6.7	2.2
CL	7.7	1.2
¼	7.3	1.6
¼ + 3'	7.2	1.7
¼ + 3'	7.2	1.7
¼	7.4	1.5
CL	7.4	1.5
W. line	7.3	1.6

JUNIPER ST FRONT TO PARK

Childs
Lewis
Brookes

Feb 13 1905

Cross Section of Juniper from E. line of Front to Park

N.I. 195.94

E line of Front	R.R.	Elev.
S line	8.6	187.3
cb	9.0	186.9
1/4	9.1	186.8
C	8.8	187.1
1/4	8.7	187.2
cb	8.6	187.3
N line	8.2	187.7

25' E. Front

N line		
cb		
1/4		
C		
1/4		
cb		

25' E Front

	R.R.	Elev.
N line	6.1	189.8
cb	7.4	188.5
gutter	8.0	187.9
1/4	7.6	188.3
C	7.5	188.4
1/4	7.9	188.0
gutter	8.3	187.6
cb	7.3	188.6
S line	6.9	189.0

50' E Front

S line	5.5	190.4
cb	5.8	190.1
S	6.7	189.2
1/4	6.3	189.6
C	5.9	190.0
1/4	5.9	190.0
S	6.3	189.4
cb	5.4	190.3
N line	4.6	191.3

75' E Front	R.R.	Elev.
Nline	3.5	192.4
cb	3.7	192.2
Gut	5.0	190.9
1/4	4.2	191.7
C	4.4	191.5
1/4	4.7	191.2
Gut	5.4	190.5
cb.	4.5	191.4
Sline	4.5	191.4

100' E Front		
Sline	3.0	192.9
cb	2.9	193.0
Gut	3.9	192.0
1/4	3.1	192.8
C	2.6	193.3
1/4	2.5	193.4
Gut	2.5	193.4
cb	2.1	193.8
Nline	1.9	194.0

125' E Front	R.R.	Elev.
Nline	0.1	195.8
cb	0.3	195.6
Gut	1.2	194.7
1/4	0.8	195.1
C	0.9	195.0
1/4	1.5	194.4
Gut	2.1	193.8
cb	1.4	194.5
Sline	1.4	194.5

150' E. Front
H.I. 204.9.4

Sline	8.8	196.1
cb	8.9	196.0
Gut	9.9	195.0
1/4	9.0	195.9
C	8.3	196.6
1/4	8.1	196.8
Gut	8.6	196.3
cb	7.7	197.2
Nline	7.4	197.5

175 E Front	R.R.	Elev.
N line	5.7	199.2
cb	6.1	198.8
Gut	7.1	197.8
¼	6.4	198.5
C	6.5	198.4
¼	7.3	197.6
Gut	8.1	196.8
cb	7.3	197.6
S line	7.4	197.5
West line 1st St.		
S line	5.7	199.2
cb	6.0	198.9
Gut	6.6	198.3
¼	5.8	199.1
C	5.0	199.9
¼	4.7	200.2
Gut	4.8	200.1
cb	4.3	200.6
N line	4.0	200.9

H.I. 211.73

W. cb 1st	RR.	Elev
S. line	12.9	198.8
cb	12.5	199.2
¼	11.7	200.0
C	11.1	200.6
¼	10.7	201.0
cb	11.2	200.5
N line	10.5	201.2
W ¼ 1st		
N line	9.7	202.0
cb	10.0	201.7
¼	10.1	201.6
C	10.5	201.2
¼	11.1	200.6
cb	11.9	199.8
S line	12.4	199.3

Center 1st St	R.R.	Elev.
S. line	12.0	199.7
cb	11.6	200.1
1/4	11.4	200.3
C	11.0	200.7
1/4	10.6	201.1
cb	10.1	201.6
N line	9.6	202.1

E. 1/4, 1st		
N line	8.8	202.9
cb	9.0	202.7
1/4	9.6	202.1
C	9.5	202.2
1/4	10.0	201.7
cb	10.7	201.0
S. line	11.1	200.6

E. Cb. 1st	R.R.	Elev.
S. line	10.8	200.9
cb	10.6	201.1
1/4	9.7	202.0
C	9.1	202.6
1/4	8.8	202.9
cb	8.8	202.9
N line	8.8	202.9

East line 1st St.		
N line	7.7	204.0
cb	8.7	203.0
1/4	8.4	203.3
C	8.6	203.1
1/4	9.4	202.3
cb	9.7	202.0
S. line	9.7	202.0

25' E 1st	R.R.	Elev.
S line	8.8	202.9
cb	8.9	202.8
1/4	8.4	203.3
C	8.3	203.4
1/4	8.0	203.7
cb	8.2	203.5
N line	7.9	203.8
50' E 1st		
N line	7.1	204.6
cb	7.4	204.3
1/4	7.7	204.0
C	7.9	203.8
1/4	8.1	203.6
cb	8.6	203.1
S line	8.5	203.2

75' E 1st	R.R.	Elev
S line	8.0	203.7
cb	8.0	203.7
1/4	7.7	204.0
C	7.5	204.2
1/4	7.0	204.7
cb	6.8	204.9
N line	6.3	205.4
100' E 1st		
N line	5.5	206.2
cb	5.7	206.0
1/4	6.2	205.5
C	6.6	205.1
1/4	7.2	204.5
cb	7.1	204.6
S line	7.2	204.5

125' E 1st	R.R.	Elev.
S line	7.0	204.7
CL	6.6	205.1
1/4	6.5	205.2
C	6.0	205.7
1/4	5.6	206.1
CL	5.1	206.6
N line	4.8	206.9

150' E 1st		
N line	4.1	207.6
CL	4.6	207.1
1/4	5.1	206.6
C	5.5	206.2
1/4	5.8	205.9
CL	5.5	206.2
S line	5.6	206.1

175' E 1st	R.R.	Elev.
S line	4.7	207.0
CL	4.8	206.9
1/4	4.9	206.8
C	4.6	207.1
1/4	4.2	207.5
CL	3.7	208.0
N line	3.4	208.3

West line 2nd St.		
N line	2.7	209.0
CL	3.2	208.5
1/4	3.4	208.3
C	3.4	208.3
1/4	3.8	207.9
CL	4.2	207.5
S line	3.7	208.0

	W Cb 2nd	R.R.	Elev.
S line		3.8	207.9
	gutter	4.5	207.2
Cb		4.4	207.3
1/4		4.2	207.5
C		3.7	208.0
1/4		3.6	208.1
Cb		3.1	208.6
	gutter	3.2	208.5
N line		2.7	209.0

	W 1/4 2nd		
N line		2.7	209.0
Cb		3.0	208.7
1/4		3.3	208.4
C		3.5	208.2
1/4		3.7	208.0
Cb		3.9	207.8
S line		4.3	207.4

	Center 2nd St.	R.R.	Elev.
S line		3.7	208.0
Cb		3.5	208.2
1/4		3.5	208.2
C		3.4	208.3
1/4		3.2	208.5
Cb		3.0	208.7
N line		2.8	208.9

	E 1/4 2nd		
N line		2.8	208.9
Cb		3.2	208.5
1/4		3.3	208.4
C		3.5	208.2
1/4		3.7	208.0
Cb		3.8	207.9
S line		4.1	207.6

E Cb 2nd		R.R	Elev.
	gutter	4.3	207.4
S line		3.7	208.0
Cb		4.0	207.7
1/4		4.0	207.7
C		3.7	208.0
1/4		3.5	208.2
Cb		3.2	208.5
	gutter	3.0	208.7
N line		2.7	209.0

East line 2nd St.			
N line		2.4	209.3
Cb		2.9	208.8
1/4		2.4	209.3
C		3.1	208.6
1/4		3.1	208.6
Cb		3.7	208.0
S line		3.4	208.3

25' E 2nd		R.R.	Elev.
S line		2.0	209.7
Cb		2.0	209.7
1/4		1.8	209.9
C		1.6	210.1
1/4		1.1	210.6
Cb		0.9	210.8
N line		0.2	211.5

50' E 2nd

H.I. 220.25

N line		6.7	213.6
Cb		7.8	212.5
1/4		8.2	212.1
C		8.8	211.5
1/4		8.7	211.6
Cb		8.9	211.4
S line		9.0	211.3

75' E 2nd	R.R.	Elev.
S line	6.8	213.5
Cb	6.6	213.7
1/4	6.5	213.8
C	6.8	213.5
1/4	6.5	213.8
Cb	6.1	214.2
N line	5.2	215.1

100' E 2nd		
N line	3.3	217.0
Cb	4.3	216.0
1/4	4.6	215.7
C	4.5	215.8
1/4	4.4	215.9
Cb	4.6	215.7
S. line	4.2	216.1

125' E 2nd	R.R.	Elev.
S. line	2.9	217.4
Cb	2.6	217.7
1/4	2.0	218.3
C	1.9	218.4
1/4	1.5	218.8
Cb	1.4	218.9
N line	1.1	219.2

150' E 2nd		
H.I. 225.59		
N line	4.9	220.7
Cb	5.0	220.6
1/4	5.4	220.2
C	5.6	220.0
1/4	5.9	219.7
Cb	6.5	219.1
S line	6.9	218.7

175' E 2nd

	R.R.	Elev.
S line	6.7	218.9
Cb	6.4	219.2
1/4	5.8	219.8
C	5.4	220.2
1/4	5.0	220.6
Cb	4.6	221.0
N. line	4.2	221.4

West line 3rd St.

N line	7.1	218.5
Cb	7.6	218.0
1/4	7.9	217.7
C	8.5	217.1
1/4	9.1	216.5
Cb	9.1	216.5
S line	10.2	215.4

W Cb 3rd

	R.R.	Elev.
S line	11.2	214.4
Cb	11.2	214.4
1/4	11.0	214.6
C	10.1	215.5
1/4	9.3	216.3
Cb	8.7	216.9
N line	8.1	217.5

W 1/4 3rd

N line	8.9	216.7
Cb	9.0	216.6
1/4	10.5	215.1
C	11.1	214.5
1/4	11.9	213.7
Cb	12.2	213.4
S. line	12.9	212.7

Center 3rd St. R.R. Elev.

S line	13.9	211.7
cb	13.1	212.5
1/4	12.7	212.9
C	12.4	213.2
1/4	11.6	214.0
cb	10.8	214.8
N line	10.1	215.5

West line 4th St. R.R. Elev.

H.I. 225.48

N line		
cb		
1/4		
C		
1/4		
cb		
S line		

W.cb. 4th

S line	14.0	211.5
cb	13.5	212.0
1/4	13.3	212.2
C	13.0	212.5
1/4	12.7	212.8
cb	12.4	213.1
N line	12.2	213.3

W. ¼ 4th

	R.R.	Elev.
N. line	12.3	213.2
CB	12.6	212.9
¼	12.7	212.8
C.	13.2	212.3
¼	13.4	212.1
CB	14.0	211.5
S. line	14.2	211.3

Center 4th St.

S. line	13.4	212.1
CB	13.2	212.3
¼	13.0	212.5⁻
C	12.6	212.9
¼	12.2	213.3
CB	12.0	213.5
N. line	11.7	213.8

E. ¼ 4th

	R.R.	Elev.
N. line	11.7	213.8
CB	12.0	213.5⁻
¼	12.2	213.3
C	12.5⁻	213.0
¼	12.8	212.7
CB	13.1	212.4
S. line	13.3	212.2

E. CB 4th

gutter	13.1	212.4
	12.5⁻	213.0
	13.2	212.3
¼	13.0	212.5⁻
C	12.9	212.6
¼	12.4	213.1
CB	12.2	213.3
gutter	12.3	213.2
	11.5⁻	214.0

East line 4th St.	R.R.	Elev.
N. line	11.0	214.5
cb	11.6	213.9
¼	11.9	213.6
C	12.2	213.3
¼	12.4	213.1
cb	12.6	212.9
S. line	12.3	213.2
25' E 4th St.		
S. line	10.7	214.8
cb	11.2	214.3
¼	11.2	214.3
C	10.1	215.4
¼	9.2	216.3
cb	8.7	216.8
N line	8.2	217.3

50' E. 4th	R.R.	Elev.
N line	2.9	222.6
cb	3.9	221.6
¼	5.7	219.8
C	6.9	218.6
¼	8.3	217.2
cb	7.8	217.7
S line	7.2	218.3
75' E 4th		
S. line	4.9	220.6
cb	5.3	220.2
¼	5.0	220.5
C	4.6	220.9
¼	3.2	222.3
cb	1.8	223.7
N line	1.0	224.5

100' E 4th	R.R.	Elev.
N. line	0.4	225.1
CL	1.0	224.5
1/4	1.0	224.5
C	0.6	224.9
1/4	1.1	224.4
CL	1.6	223.9
S. line	1.2	224.3

125' E 4th

H.I. 236.22

S line	7.6	228.6
3' N. S line	7.8	228.4
4' N. "	8.8	227.4
CL	9.2	227.0
1/4	9.1	227.1
C	9.7	226.5
1/4	10.0	226.2
CL	10.6	225.6
N. line	10.2	226.0

150' E 4th	R.R.	Elev.
N line	8.5	227.7
CL	9.1	227.1
1/4	8.2	228.0
C	7.6	228.6
1/4	7.2	229.0
CL	7.2	229.0
3' N. S line	6.9	229.3
2' N. " "	5.7	230.5
S line	5.6	230.6

175' E 4th St.

S. line	5.0	231.2
4' N. S line	5.0	231.2
5' N. "	5.9	230.3
CL	5.9	230.3
1/4	5.7	230.5
C	5.8	230.4
1/4	6.4	229.8
CL	6.6	229.6
N line	6.2	230.0

198' E 4th

	R.R.	Elev.
N line	5.5	230.7
CL	5.6	230.6
1/4	4.8	231.4
C	6.2	230.0
1/4	4.5	231.7
CL	3.7	232.5
S line	3.9	232.3

West line 5th St.

S line	7.9	228.3
CL	8.1	228.1
1/4	7.3	228.9
C	6.5	229.7
1/4	6.5	229.7
CL	6.3	229.9
N line	5.9	230.3

W. CL 5th

		R.R.	Elev.
	gutter	6.9	229.3
		6.2	230.0
N line		7.1	229.1
CL		7.6	228.6
1/4		7.8	228.4
C		8.3	227.9
1/4		8.5	227.7
CL		9.2	227.0
	gutter	8.2	228.0
S line			

W. 1/4 5th St.

S line	8.7	227.5
CL	8.3	227.9
1/4	8.0	228.2
C	7.6	228.6
1/4	7.3	228.9
CL	6.8	229.4
N line	6.6	229.6

W ¼ + 3' 5-th (2' west track)

	R.R.	Elev.
N line	6.4	229.8
cb	6.8	229.4
¼	7.2	229.0
c	7.5	228.7
¼	7.9	228.3
cb	8.2	228.0
S. line	8.6	227.6

E ¼ + 3' 5-th (2' east track)

S. line	8.4	227.8
cb	8.0	228.2
¼	7.7	228.5
c	7.4	228.8
¼	7.0	229.2
cb	6.7	229.5
N. line	6.3	229.9

E. ¼ · 5-th

	R.R.	Elev.
N line	6.3	229.9
cb	6.7	229.5
¼	7.1	229.1
c	7.4	228.8
¼	7.7	228.5
cb	8.0	228.2
S line	8.6	227.6

E. cb. 5-th

gutter	9.2	227.0
	8.1	228.1
cb	8.5	227.7
¼	8.2	228.0
c	8.2	228.0
¼	7.7	228.5
cb	7.0	229.2
gutter	6.9	229.3
N. line	6.3	229.9

East line 5th St.	R.R.	Elev.
N line	5.9	230.3
CL	6.6	229.6
1/4	6.3	229.9
C	6.6	229.6
1/4	7.4	228.8
CL	8.2	228.0
S. line	7.8	228.4

25' E 5th		
S line	6.7	229.5
CL	7.1	229.1
1/4	6.1	230.1
C	5.4	230.8
1/4	5.1	231.1
CL	5.8	230.4
N line	4.9	231.3

50' E 5th	R.R.	Elev.
N line	3.9	232.3
CL	5.0	231.2
1/4	4.2	232.0
C	4.8	231.4
1/4	5.0	231.2
CL	6.0	230.2
S line	5.4	230.8

75' E 5th		
S line	4.2	232.0
CL	4.5	231.7
1/4	3.8	232.4
C	3.8	232.4
1/4	3.2	233.0
CL	3.7	232.5
N line	2.8	233.4

100' E 5th	R.R.	Elev.
N. line	1.8	234.4
Cb	2.7	233.5
1/4	1.8	234.4
C	2.3	233.9
1/4	2.5	233.7
Cb	3.2	233.0
S. line	2.9	233.3

125' E 5th		
S. line	1.3	234.9
Cb	1.8	234.4
1/4	1.0	235.2
C	1.2	235.0
1/4	0.7	235.5
Cb	1.7	234.5
N. line	0.7	235.5

150' E 5th	R.R.	Elev.
N. line	5.4	236.7
Cb	6.5	235.6
1/4	5.5	236.6
C	5.4	236.7
1/4	5.6	236.5
Cb	6.5	235.6
S line	6.0	236.1

175' E 5th (w. line of Park)		
S line	4.6	237.5
Cb	5.3	236.8
1/4	4.6	237.5
C	4.6	237.5
1/4	4.4	237.7
Cb	5.1	237.0
N line	4.4	237.7

Childs
Lewis
Brookes

Feb. 14. 1905

Cross Section on Front St. from Fir to Maple.

North line Fir	R.R.	Elev.
H.I. 109.83		
W. line	10.0	99.8
cb	9.8	100.0
¼	9.2	100.6
C	8.3	101.5
¼	8.0	101.8
cb	8.3	101.5
E line	7.6	102.2

25' N. Fir	R.R.	Elev.
E line	7.2	102.6
cb	7.9	101.9
¼	7.7	102.1
C	8.0	101.8
¼	9.1	100.7
cb	9.2	100.6
W line	8.9	100.9
50' N. Fir		
W line	8.6	101.2
cb	9.0	100.8
¼	8.6	101.2
C	7.8	102.0
¼	76	102.2
cb	7.7	102.1
E line	7.0	102.8

75' N. Fir		R.R.	Elev.
E line		6.8	103.0
CB		7.3	102.5
1/4		7.4	102.4
C		7.5	102.3
1/4		8.3	101.5
CB		8.3	101.5
W line		7.8	102.0
100' N. Fir			
W line	lower	7.3	102.5
	upper	6.5	103.3
CB		7.6	102.2
1/4		7.6	102.2
C		7.0	102.8
1/4		7.0	102.8
CB		6.9	102.9
E line		6.2	103.6

125' N Fir	R.R.	Elev.
E line	5.4	104.4
CB	6.4	103.4
1/4	6.4	103.4
C	6.9	102.9
1/4	6.8	103.0
CB	6.7	103.1
W line	5.7	104.1
150' N. Fir		
W line	4.6	105.2
CB	5.8	104.0
1/4	5.7	104.1
C	5.6	104.2
1/4	5.7	104.1
CB	5.4	104.4
E line	4.6	105.2

175' N Fir	R.R.	Elev.
E line	2.8	107.0
CB	4.2	105.6
1/4	4.1	105.7
C	4.4	105.4
1/4	4.6	105.2
CB	4.0	105.8
W. line	3.1	106.7

200' N Fir		
W line	0.8	109.0
CB	2.4	107.4
1/4	2.3	107.5
C	2.3	107.5
1/4	2.3	107.5
CB	3.1	106.7
E line	1.5	108.3

225' N Fir		R.R.	Elev.
	H.I.	121.08	
E line		11.9	109.2
CB		10.2	110.9
gutter		12.1	109.0
1/4		11.4	109.7
C		10.9	110.2
1/4		10.9	110.2
CB		11.6	109.5
W line		10.1	111.0

250' N Fir		
W line	7.9	113.2
CB	9.0	112.1
1/4	8.2	112.9
C	8.4	112.7
1/4	8.7	112.4
3' W CB	9.5	111.6
gutter	11.4	109.7
CB	8.2	112.9
E line	9.8	111.3

27 S-1 N Fir	R.R.	Elev.
E. line	7.1	114.0
cb	6.2	114.9
gutter	8.2	112.9
2' W cb	6.7	114.4
1/4	5.9	115.2
C	5.7	115.4
1/4	5.9	115.2
cb	6.9	114.2
W line	6.0	115.1

South line Grape

W line	4.1	117.0
cb	5.3	115.8
1/4	4.6	116.5
C	4.2	116.9
1/4	4.2	116.9
3' W cb.	4.7	116.4
gutter	5.6	115.5
cb	4.2	116.9
E line	4.0	117.1

S. cb Grape	R.R.	Elev.
W. line	13.0	117.0
cb	13.7	116.3
1/4	12.9	117.1
C	12.6	117.4
1/4	12.3	117.7
cb	13.2	116.8
E line	12.7	117.3

S. 1/4 Grape

E line	12.0	118.0
cb	11.9	118.1
gutter	12.9	117.1
1/4	12.1	117.9
C	12.0	118.0
1/4	12.4	117.6
cb	13.0	117.0
W line	12.7	117.3

Center Grape St.	R.R.	Elev.
W line	12.2	117.8
cb	12.4	117.6
1/4	11.6	118.4
c	11.8	118.2
1/4	12.0	118.0
gutter	12.4	117.6
cb	11.7	118.3
E line	11.3	118.7

N. 1/4 Grape		
E line	10.8	119.2
cb	11.8	118.2
1/4	11.6	118.4
c	11.4	118.6
1/4	11.3	118.7
cb	11.8	118.2
W. line	11.7	118.3

N. cb. Grape	R.R.	Elev.
W. line	10.9	119.1
cb	10.9	119.1
1/4	10.8	119.2
c	10.9	119.1
1/4	11.2	118.8
cb	11.5	118.5
E. line	11.1	118.9

North line Grape St.		
E line	10.7	119.3
cb	10.8	119.2
1/4	10.4	119.6
c	10.4	119.6
1/4	10.2	119.8
cb	10.4	119.6
W line	10.6	119.4

25' N. Grape	R.R.	Elev.
W. line	9.4	120.6
CB	9.1	120.9
1/4	9.0	121.0
C	9.0	121.0
1/4	8.9	121.1
CB	9.9	120.1
E line	9.0	121.0

50' N Grape		
E line	6.4	123.6
CB	7.4	122.6
1/4	6.8	123.2
C	6.7	123.3
1/4	6.8	123.2
CB	7.2	122.8
W. line	6.8	123.2

75' N. Grape	R.R.	Elev.
W line	5.0	125.0
CB	4.9	125.1
1/4	4.8	125.2
C	4.2	125.8
1/4	3.9	126.1
CB	5.0	125.0
E line	3.3	126.7

100' N. Grape		
E line	0.9	129.1
CB	2.4	127.6
1/4	1.5	128.5
C	1.9	128.1
1/4	1.6	128.4
CB gutter	2.1	127.9
	1.2	128.8
W. line	3.3	126.7

125' N. Grade		R.R.	Elev.
H.I.	140.71		
W. line		11.1	129.6
cb		9.3	131.4
	gutter	9.5	131.2
1/4		9.5	131.2
c		9.7	131.0
1/4		9.7	131.0
cb		11.0	129.7
E. line		9.0	131.7
150' N. Grade			
E. line		6.3	134.4
cb		7.8	132.9
1/4		6.9	133.8
c		7.0	133.7
1/4		7.1	133.6
	gutter	7.6	133.1
cb		6.8	133.9
W. line		8.2	132.5

175' N. Grade		R.R.	Elev.
W line		5.1	135.6
cb		4.1	136.6
	gutter	5.3	135.4
1/4		4.3	136.4
c		4.1	136.6
1/4		4.3	136.4
cb		4.9	135.8
E line		3.9	136.8
200' N. Grade			
E line		0.9	139.8
cb		2.3	138.4
1/4		1.7	139.0
c		1.4	139.3
1/4		1.2	139.5
cb		2.5	138.2
W. line		1.4	139.3

225' N. Grape		R.R.	Elev.
	H.I. 153.23		
W. line		11.1	142.1
cb		12.1	141.1
1/4		11.1	142.1
C		11.3	141.9
1/4		11.4	141.8
cb		11.8	141.4
E. line		11.0	142.2
	250' N. Grape		
E. line		8.3	144.9
cb		9.0	144.2
4' E 1/4		10.7	142.5
5' E 1/4		8.4	144.8
1/4		8.6	144.6
C		8.7	144.5
1/4		8.9	144.3
cb		9.5	143.7
W. line		8.5	144.7

275' N. Grape		R.R.	Elev.
W line		5.6	147.6
cb		6.4	146.8
1/4		6.1	147.1
C		5.7	147.5
1/4		6.0	147.2
	1/4 in ditch	8.5	144.7
3' E 1/4		8.5	144.7
6' E 1/4		5.9	147.3
E cb		6.6	146.6
E line		5.6	147.6
	South line Hawthorne St.		
E. line		3.0	150.2
cb		3.9	149.3
1/4		3.1	150.1
C		3.2	150.0
1/4		3.1	150.1
cb		3.9	149.3
W. line		3.4	149.8

S. cb. Hawthorn	R.R.	Elev.
W. line	2.6	150.6
cb	3.4	149.8
1/4	2.7	150.5
C	2.3	150.9
1/4	2.5	150.7
cb	3.3	149.9
E. line	2.6	150.6

S. 1/4. Hawthorn		
E line	2.1	151.1
cb	2.8	150.4
1/4	2.1	151.1
C	1.8	151.4
1/4	2.2	151.0
cb	2.8	150.4
W. line	1.9	151.3

Center Hawthorn.	R.R.	Elev.
W. line	1.5	151.7
cb	2.4	150.8
1/4	1.8	151.4
C	1.5	151.7
1/4	1.7	151.5
cb	2.4	150.8
E line	1.3	151.9

N. 1/4 Hawthorn		
E. line	1.3	151.9
cb	2.0	151.2
1/4	1.2	152.0
C	1.0	152.2
1/4	1.2	152.0
cb	1.6	151.6
W. line	1.4	151.8

N. Cb. Hawthorn. R.R. Elev.

W. line	0.9	152.3
Cb	1.3	151.9
1/4	0.6	152.6
C	0.7	152.5
1/4	0.9	152.3
Cb	1.2	152.0
E. line	1.1	152.1

North line. Hawthorn St.

E. line	0.7	152.5
Cb	1.2	152.0
1/4	0.3	152.9
C	0.2	153.0
1/4	0.0	153.2
Cb	0.5	152.7
W. line	0.8	152.4

25' N. Hawthorn R.R. Elev.

H.I. 164.26

W. line	9.9	154.4
Cb	11.0	153.3
1/4	9.9	154.4
C	9.9	154.4
1/4	9.9	154.4
Cb	11.4	152.9
E. line	9.8	154.5

50' N. Hawthorn

E. line	8.0	156.3
Cb	8.7	155.6
1/4	8.0	156.3
C	8.0	156.3
1/4	8.2	156.1
Cb	9.8	154.5
W. line	8.0	156.3

75' N. Hawthorn	R.R.	Elev.
W. line	6.0	158.3
CB	6.8	157.5
1/4	6.2	158.1
C	6.0	158.3
1/4	6.2	158.1
CB	6.7	157.6
E line	6.3	158.0

100' N. Hawthorn		
E line	3.5	160.8
CB	4.5	159.8
1/4	4.1	160.2
C	4.1	160.2
1/4	4.2	160.1
CB	5.1	159.2
W line	4.4	159.9

125' N. Hawthorn	R.R.	Elev.
W line	2.5	161.8
CB	3.1	161.2
1/4	2.5	161.8
C	2.1	162.2
1/4	2.1	162.2
CB	2.6	161.7
E line	1.2	163.1

H.I. 174.6

150' N. Hawthorn		
E line	9.1	165.1
CB	10.6	163.6
1/4	10.2	164.0
C	10.0	164.2
1/4	10.7	163.5
CB	11.1	163.1
W line	10.5	163.7

175' N. Hawthorn	R.R.	Elev.
W. line	8.5	165.7
CB	9.0	165.2
1/4	8.6	165.6
C	7.9	166.3
1/4	8.2	166.0
CB	8.3	165.9
E line	7.1	167.1

200' N. Hawthorn		
E line	5.3	168.9
CB	6.3	167.9
1/4	6.1	168.1
C	6.1	168.1
1/4	6.4	167.8
CB	7.3	166.9
W. line	6.6	167.6

225' N. Hawthorn	R.R.	Elev.
W. line	4.6	169.6
CB	5.4	168.8
1/4	4.5	169.7
C	3.9	170.3
1/4	4.0	170.2
CB	4.1	170.1
E line	3.2	171.0

250' N. Hawthorn		
E line	0.9	173.3
CB	1.9	172.3
1/4	1.5	172.7
C	1.8	172.4
1/4	2.2	172.0
CB	3.4	170.8
W. line	2.6	171.6

275' N. Hawthorn	R.R	Elev.
W. line H.I. 184.37		
W. line	11.2	173.2
cb	11.6	172.8
1/4	10.3	174.1
c	9.7	174.7
1/4	9.4	175.0
cb	9.9	174.5
E. line	9.1	175.3
South line Ivy		
E line	6.9	177.5
cb	7.7	176.7
1/4	8.2	176.2
c	8.7	175.7
1/4	9.4	175.0
cb	10.0	174.4
W. line	9.4	175.0

S. cb. Ivy	R.R.	Elev.
W. line	9.6	174.8
cb	9.6	174.8
1/4	9.0	175.4
c	8.5	175.9
1/4	8.1	176.3
cb	7.8	176.6
E line	7.1	177.3
S. 1/4 Ivy.		
E line	7.2	177.2
cb	7.7	176.7
1/4	8.0	176.4
c	8.5	175.9
1/4	8.9	175.5
cb	9.2	175.2
W. line	9.6	174.8

Center Ivy St.	R.R.	Elev.
W. line	9.2	175.2
cb	9.2	175.2
1/4	8.8	175.6
C	8.4	176.0
1/4	8.1	176.3
cb	7.7	176.7
E. line	7.3	177.1

N. 1/4 Ivy		
E. line	7.2	177.2
cb	7.8	176.6
1/4	8.1	176.3
C	8.6	175.8
1/4	9.0	175.4
cb	9.2	175.2
W. line	8.9	175.5

N. cb. Ivy	R.R.	Elev.
W. line	9.2	175.2
cb	9.1	175.3
1/4	9.0	175.4
C	8.3	176.1
1/4	8.1	176.3
cb	7.9	176.5
E. line	7.3	177.1

North line Ivy		
E. line	7.0	177.4
cb	7.7	176.7
1/4	8.0	176.4
C	8.4	176.0
1/4	8.9	175.5
cb	8.9	175.5
W. line	8.7	175.7

25' N. Ivy	R.R.	Elev.
W. line	8.1	176.3
CB	8.2	176.2
1/4	8.2	176.2
C	7.6	176.8
1/4	7.4	177.0
CB	7.0	177.4
E. line	6.4	178.0

50' N. Ivy		
E line	5.5⁻	178.9
CB	6.2	178.2
1/4	6.5⁻	177.9
C	6.8	177.6
1/4	7.5⁻	176.9
CB	7.5⁻	176.9
W. line	7.1	177.3

75' N. Ivy	R.R.	Elev.
W. line	6.5⁻	177.9
CL	6.7	177.7
1/4	6.6	177.8
C	5.9	178.5⁻
1/4	5.6	178.8
CB	5.5⁻	178.9
E. line	4.7	179.7

100' N. Ivy		
E. line	3.9	180.5⁻
CB	4.7	179.7
1/4	4.9	179.5⁻
C	5.0	179.4
1/4	5.8	178.6
CB	5.9	178.5⁻
W. line	5.6	178.8

125' N. Ivy		R.R. Elev.
W. line	4.3	180.1
Cb	5.2	179.2
1/4	4.7	179.7
C	4.2	180.2
1/4	3.9	180.5
Cb	3.9	180.5
E. line	2.8	181.6

150' N. Ivy		
E. line	1.9	182.5
Cb	3.1	181.3
1/4	3.1	181.3
C	3.2	181.2
1/4	3.8	180.6
Cb	4.3	180.1
W. line	3.4	181.0

175' N. Ivy.		R.R. Elev.
W. line	2.4	182.0
Cb	3.4	181.0
1/4	3.0	181.4
C	2.4	182.0
1/4	2.4	182.0
Cb	2.3	182.1
E. line	1.1	183.3

200' N. Ivy		
E line	0.4	184.0
Cb	1.4	183.0
1/4	1.5	182.9
C	1.5	182.9
1/4	2.2	182.2
Cb	2.5	181.9
W. line	1.5	182.9

225' N. Ivy		R.R. Elev.
	H.I. 192.55'	
W. line		8.9 / 183.7
cb		9.6 / 183.0
1/4		9.0 / 183.6
C		8.6 / 184.0
1/4		8.9 / 183.7
cb		8.7 / 183.9
E. line		7.9 / 184.7
250' N. Ivy		
E line		6.7 / 185.9
cb		7.6 / 185.0
1/4		7.8 / 184.8
C		7.8 / 184.8
1/4		8.2 / 184.4
cb		8.5' / 184.1
W. line		7.8 / 184.8

275' N. Ivy		R.R. Elev.
W. line		7.4 / 185.2
cb		7.8 / 184.8
1/4		7.4 / 185.2
C		6.8 / 185.8
1/4		6.8 / 185.8
cb		6.9 / 185.7
E. line		5.9 / 186.7
South line Juniper		
E. line		5.2 / 187.4
cb		6.1 / 186.5
1/4		6.1 / 186.5
C		5.9 / 186.7
1/4		6.8 / 185.8
cb		6.9 / 185.7
W. line		6.6 / 186.0

S. Cb. Juniper	R.R.	Elev.
W. line	6.7	185.9
Cb	7.0	185.6
1/4	6.4	186.2
C	5.9	186.7
1/4	5.7	186.9
Cb	6.0	186.6
E. line	5.6	187.0

S. 1/4 Juniper		
E. line	5.6	187.0
Cb	5.8	186.8
1/4	5.7	186.9
C	5.8	186.8
1/4	6.2	186.4
Cb	6.7	185.9
W. line	6.9	185.7

Center Juniper St.	R.R.	Elev.
W. line	6.9	185.7
Cb	6.6	186.0
1/4	6.2	186.4
C	6.0	186.6
1/4	5.9	186.7
Cb	5.7	186.9
E. line	5.4	187.2

N. 1/4 Juniper		
E. line	5.4	187.2
Cb	5.8	186.8
1/4	5.9	186.7
C	6.1	186.5
1/4	6.5	186.1
Cb	6.6	186.0
W. line	6.7	185.9

N. Cb. Juniper	R.R.	Elev.
W. line	6.7	185.9
Cb	6.5	186.1
¼	6.4	186.2
C	6.2	186.4
¼	6.1	186.5
Cb	5.7	186.9
E. line	5.3	187.3

North line Juniper		
E. line	5.1	187.5
Cb	5.7	186.9
¼	5.8	186.8
C	6.0	186.6
¼	6.3	186.3
Cb	6.3	186.3
W. line	6.2	186.4

25' N. Juniper	R.R.	Elev.
W. line	5.3	187.3
Cb	5.9	186.7
¼	5.9	186.7
C	5.4	187.2
¼	5.3	187.3
Cb	4.8	187.8
E. line	4.2	188.4

50' N. Juniper		
E. line	3.6	189.0
Cb	4.4	188.2
¼	4.3	188.3
C	4.6	188.0
¼	5.0	187.6
Cb	5.3	187.3
W. line	4.5	188.1

75' N. Juniper	R.R.	Elev.
W. line	3.4	189.2
Cb	4.5	188.1
1/4	4.1	188.5
C	3.6	189.0
1/4	3.4	189.2
Cb	3.1	189.5
E. line	2.7	189.9

100' N. Juniper		
E. line	1.5	191.1
Cb	2.3	190.3
1/4	2.5	190.1
C	2.4	190.2
1/4	3.1	189.5
Cb	3.6	189.0
W. line	2.6	190.0

125' N. Juniper	R.R.	Elev.
W. line	1.7	190.9
Cb	2.7	189.9
1/4	2.1	190.5
C	1.7	190.9
1/4	1.6	191.0
Cb	1.4	191.2
E. line	0.8	191.8

150' N. Juniper		
E. line	-0.4	193.0
Cb	0.3	192.3
1/4	0.6	192.0
C	0.7	191.9
1/4	1.2	191.4
Cb	1.6	191.0
W. line	0.7	191.9

175' N. Juniper		R.R. Elev.
H.I. 201.60		
W. line	8.9	192.7
cb	9.8	191.8
1/4	9.4	192.2
C	8.8	192.8
1/4	8.7	192.9
cb	8.8	192.8
E. line	7.7	193.9

200' N. Juniper		
E. line	6.8	194.8
cb	7.8	193.8
1/4	7.9	193.7
C	8.3	193.3
1/4	8.7	192.9
cb	8.9	192.7
W. line	7.9	193.7

225' N. Juniper		R.R. Elev.
W. line	7.1	194.5
cb	8.0	193.6
1/4	7.7	193.9
C	7.1	194.5
1/4	7.1	194.5
cb	7.2	194.4
E. line	6.3	195.3

250' N. Juniper		
E. line	5.4	196.2
cb	6.0	195.6
1/4	6.0	195.6
C	6.0	195.6
1/4	6.7	194.9
cb	7.1	194.5
W. line	6.1	195.5

275' N. Juniper	R.R.	Elev.
W. line	5.3	196.3
Cb	6.2	195.4
1/4	5.8	195.8
C	5.3	196.3
1/4	5.0	196.6
Cb	5.2	196.4
E. line	4.2	197.4

South line Kalmia		
E. line	3.4	198.2
Cb	3.9	197.7
1/4	4.3	197.3
C	4.3	197.3
1/4	5.0	196.6
Cb	5.3	196.3
W. line	4.4	197.2

S. Cb. Kalmia	R.R.	Elev.
W. line	5.1	196.5
Cb	5.2	196.4
1/4	4.4	197.2
C	4.1	197.5
1/4	4.2	197.4
Cb	4.0	197.6
E. line	3.5	198.1

S. 1/4 Kalmia		
E. line	3.4	198.2
Cb	3.9	197.7
1/4	3.9	197.7
C	4.0	197.6
1/4	4.3	197.3
Cb	4.8	196.8
W. line	4.9	196.7

Center Kahnia St.	R.R.	Elev.
w. line	4.8	196.8
cb	4.7	196.9
1/4	4.3	197.3
c	4.0	197.6
1/4	3.8	197.8
cb	3.5-	198.1
E. line	3.3	198.3

N. 1/4 Kahnia		
E. line	3.4	198.2
cb	3.5-	198.1
1/4	3.9	197.7
c	4.0	197.6
1/4	4.2	197.4
cb	4.7	196.9
W. line	5-3	196.3

N. Cb. Kahnia	R.R.	Elev.
w. line	4.9	196.7
cb	4.8	196.8
1/4	4.4	197.2
c	4.4	197.2
1/4	4.4	197.2
cb	3.8	197.8
E. line	3.6	198.0

North line Kahnia		
E. line	3.1	198.5-
cb	4.1	197.5-
1/4	4.0	197.6
c	4.1	197.5-
1/4	4.3	197.3
cb	4.6	197.0
W. line	4.5-	197.1

Shields
Lewis
Lambert

Feb. 17, 1905

	R.R.	Elev.
25' N. Kalmia		
H.I. 209.94		
W. line	12.0	197.9
cb	12.4	197.5
¼	12.1	197.8
C	12.0	197.9
¼	11.9	198.0
cb	11.8	198.1
E. line	10.6	199.3
50' N. Kalmia		
E. line	10.0	199.9
cb	10.2	198.7
¼	11.1	198.8
C	11.0	198.9
¼	11.8	198.1
cb	11.9	198.0
W. line	11.4	198.5

	R.R.	Elev.
75' N Kalmia		
W line	11.1	198.8
cb	11.4	198.5
¼	11.0	198.9
C	10.3	199.6
¼	10.5	199.4
cb	10.6	199.3
E. line	9.8	200.1
100' N. Kalmia		
E. line	8.8	201.1
cb	9.8	200.1
¼	9.7	200.2
C	9.7	200.2
¼	10.4	199.5
cb	10.8	199.1
W. line	10.5	199.4

	125' N. Kalmia	R.R.	Elev.
W. line		9.7	200.2
cb		10.3	199.6
1/4		9.9	200.0
C		9.2	200.7
1/4		9.1	200.8
cb		9.0	200.9
E. line		8.0	201.9

	150' N. Kalmia		
E. line		7.1	202.8
cb		8.2	201.7
1/4		8.4	201.5
C		8.7	201.2
1/4		9.2	200.7
cb		9.7	200.2
W. line		9.3	200.6

	175' N. Kalmia	R.R.	Elev.
W. line		8.6	201.3
cb		9.2	200.7
1/4		8.8	201.1
C		8.0	201.9
1/4		7.9	202.0
cb		7.7	202.2
E. line		6.3	203.6

	200' N. Kalmia		
E. line		5.7	204.2
cb		6.6	203.3
1/4		7.2	202.7
C		7.4	202.5
1/4		8.3	201.6
cb		8.7	201.2
W. line		8.1	201.8

225' N. Kalmia	R.R.	Elev.
W. line	7.5	202.4
CB	8.0	201.9
1/4	7.6	202.3
C	6.8	203.1
1/4	6.5	203.4
CB	6.2	203.7
E. line	5.2	204.7

250' N. Kalmia		
E. line	4.5	205.4
CB	5.8	204.1
1/4	6.0	203.9
C	6.2	203.7
1/4	7.4	202.5
CB	7.7	202.2
W. line	7.0	202.9

275' N. Kalmia	R.R.	Elev.
W. line	6.1	203.8
CB	7.1	202.8
1/4	6.2	203.7
C	5.4	204.5
1/4	5.8	204.1
CB	4.9	205.0
E. line	3.6	206.3

South line Laurel St.		
E. line	3.0	206.9
CB	4.2	205.7
1/4	4.8	205.1
C	4.6	205.3
1/4	5.2	204.7
CB	6.4	203.5
W. line	5.5	204.4

	S. Cb. Laurel	R.R.	Elev.
W. line		5.3	204.6
Cb		5.0	204.9
¼		5.6	204.3
C		5.0	204.9
¼		4.6	205.3
Cb		4.1	205.8
E. line		3.4	206.5

	S. ¼ Laurel,		
E. line		3.2	206.7
Cb		4.2	205.7
¼		3.6	206.3
C		3.7	206.2
¼		4.1	205.8
Cb		4.5	205.4
W. line		5.0	204.9

	Center Laurel	R.R.	Elev.
W. line		5.2	204.7
Cb		4.2	205.7
¼		3.2	206.7
C		3.0	206.9
¼		2.7	207.2
Cb		3.1	206.8
E. line		3.0	206.9

	N. ¼ Laurel		
E line		2.7	207.2
Cb		2.5	207.4
¼		2.4	207.5
C		3.0	206.9
¼		3.6	206.3
Cb		4.1	205.8
W line		5.2	204.7

N. CB. Laurel R.R. Elev.

W. line		5.4	204.5
CB.		4.4	205.5
¼		3.8	206.1
C		3.3	206.6
¼		2.8	207.1
CB		1.8	208.1
E. line		1.5	208.4

North line Laurel.

E. line		1.4	208.5
CB		0.4	209.5
¼		0.3	209.6
C		2.5	207.4
¼		3.2	206.7
CB		4.1	205.8
W. line		4.0	205.9

25' N. Laurel R.R. Elev.

H.I. 214.35

W. line		8.3	206.1
CB		8.1	206.3
¼		7.5	206.9
C		7.1	207.3
¼		5.5	208.9
CB		4.1	210.3
E. line		2.2	212.2

50' N. Laurel.

E. line		1.7	212.7
CB		3.6	210.8
¼		5.2	209.2
C		6.2	208.2
¼		7.2	207.2
CB		7.7	206.7
W. line		8.1	206.3

75' N. Laurel	R.R.	Elev.
W. line	8.0	206.4
cb	7.5	206.9
¼	7.1	207.3
C	6.4	208.0
¼	5.1	209.3
cb	4.4	210.0
E. line	1.4	213.0

100' N. Laurel.		
E. line	1.5	212.9
cb	4.0	210.4
¼	4.4	210.0
C	6.1	208.3
¼	6.8	207.6
cb	7.4	207.0
W. line	7.7	206.7

125' N. Laurel	R.R.	Elev.
W. line	7.4	207.0
cb	7.0	207.4
¼	6.4	208.0
C	6.0	208.4
¼	4.5	209.9
cb	2.8	211.6
E. line	1.1	213.3

150' N. Laurel.		
E. line	0.9	213.5
2' w. E. line	2.5	211.9
cb	3.4	211.0
¼	4.2	210.2
C	5.?	209.1
¼	6.2	208.2
cb	6.7	207.7
W. line	7.0	207.4

175' N. Laurel	R.R.	Elev.
W. line	6.7	207.7
Cb	6.4	208.0
1/4	5.5'	208.9
C	4.7	209.7
1/4	3.9	210.5
Cb	3.6	210.8
2' W. E line	2.3	212.1
E. line	1.0	213.4

200' N. Laurel		
E line	1.4	213.0
2' W. E line	2.7	211.7
Cb.	2.5'	211.9
1/4	4.0	210.4
C	5.8	208.6
1/4	7.8	206.6
Cb	8.1	206.3
W. line	7.9	206.5'

225' N. Laurel	R.R.	Elev.
W. line	8.1	206.3
Cb	8.3	206.1
1/4	8.1	206.3
C	6.2	208.2
1/4	3.8	210.6
Cb	3.2	211.2
E line	2.3	212.1

250' N. Laurel		
E line	1.7	212.7
Cb	3.3	211.1
1/4	4.7	209.7
C	6.4	208.0
1/4	8.1	206.3
Cb	8.0	206.4
W. line	7.9	206.5'

275' N. Laurel

	R.R.	Elev.
W. line	7.5	206.9
CB	8.0	206.4
¼	7.6	206.8
C	6.2	208.2
¼	4.0	210.4
CB	3.1	211.3
E. line	1.5	212.9

South line Maple.

E. line	1.0	213.4
CB	2.7	211.7
¼	4.3	210.1
C	6.3	208.1
¼	7.6	206.8
CB	7.8	206.6
W. line	7.2	207.2

Feb. 21, 1905

Shields
Lewis
Brookes

Cross Section of 8th St. from University ave. to Grant ave.

North line Univ. ave. R.R. Elev.

B.M. in Tel Pole N. side of St. between 8th & 9th

B.M. = 284.25 + 4.67 = H.I. 288.92

W. line		4.7	284.2
CB		4.9	284.0
¼		5.0	283.9
C		5.2	283.7
¼		5.3	283.6
CB		5.4	283.5
E. line		4.9	284.0

25' North U. ave.	R.R.	Elev.
E. line	5.7	283.2
cb	5.7	283.2
¼	5.6	283.3
C	5.1	283.8
¼	5.0	283.9
cb	4.9	284.0
W. line	4.4	284.5

50' North U. ave,		
W. line	4.5	284.4
cb	4.8	284.1
¼	4.9	284.0
C	5.0	283.9
¼	5.1	283.8
cb	5.3	283.6
E. line	5.8	283.1

75' North U. ave.	R.R.	Elev.
E. line	5.9	283.0
cb	5.3	283.6
¼	5.0	283.9
C	5.1	283.8
¼	5.2	283.7
cb	5.0	283.9
W. line	4.6	284.3

100' North U. ave.		
W. line	4.7	284.2
cb	5.2	283.7
¼	5.2	283.7
C	5.1	283.8
¼	5.2	283.7
cb	5.1	283.8
E. line	5.6	283.3

125' North U. ave.	R.R.	Elev.
E. line	6.0	282.9
cb	5.9	283.0
1/4	5.4	283.5
C	5.1	283.8
1/4	5.3	283.6
cb	5.3	283.6
W. line	4.8	284.1

150' North U. ave.		
W. line	5.1	283.8
cb	5.5	283.4
1/4	5.2	283.7
C	4.9	284.0
1/4	5.1	283.8
cb	5.6	283.3
E. line	5.7	283.2

175' North U. ave.	R.R.	Elev.
E. line	5.3	283.6
cb	5.7	283.2
1/4	5.5	283.4
C.	5.3	283.6
1/4	5.3	283.6
cb	5.3	283.6
W. line	5.0	283.9

200' North U. ave.		
W. line	5.0	283.9
cb	5.3	283.6
1/4	5.4	283.5
C	5.5	283.4
1/4	5.6	283.3
cb	5.8	283.1
E. line	5.2	283.7

225' North U. ave.	R.R.	Elev.
E. line	4.7	284.2
Cb	4.8	284.1
1/4	5.2	283.7
C	5.3	283.6
1/4	5.5	283.4
Cb	5.3	283.7
W. line	5.1	283.8

250' North U. ave.		
W. line	4.9	284.0
Cb	5.2	283.7
1/4	5.3	283.7
C	5.4	283.5
1/4	5.4	283.5
Cb	5.2	283.7
E. line	4.9	284.0

275' North U. ave.	R.R.	Elev.
E. line	4.9	284.0
Cb	5.3	283.6
1/4	5.3	283.6
C	5.4	283.5
1/4	5.3	283.6
Cb	5.1	283.8
W. line	5.0	283.9

300' North U. ave.		
W. line	5.0	283.9
Cb	5.4	283.5
1/4	5.5	283.4
C	5.1	283.8
1/4	5.0	283.9
Cb	4.8	284.1
E. line	4.7	284.2

325' North U. ave.	R.R.	Elev.
E. line	4.6	284.3
cb	4.5	284.4
1/4	4.9	284.0
C	5.0	283.9
1/4	5.2	283.7
cb	5.3	283.6
W. line	5.1	283.8

350' North U. ave.		
W. line	4.9	284.0
cb	5.2	283.7
1/4	5.3	283.6
C	5.2	283.7
1/4	5.0	283.9
cb	4.9	284.0
E. line	4.5	284.4

375' North U. ave.	R.R.	Elev.
E. line	4.4	284.5
cb	4.7	284.2
1/4	4.9	284.0
C	5.1	283.8
1/4	5.2	283.7
cb	5.0	283.9
W. line	4.7	284.2

400' North U. ave.		
W. line	4.0	284.9
cb	4.7	284.2
1/4	4.9	284.0
C	4.9	284.0
1/4	4.6	284.3
cb	3.8	285.1
E. line	4.2	284.7

425' north N. ave.	R.R.	Elev.
E. line	3.7	285.2
cb	3.9	285.0
1/4	4.4	284.5
C	4.6	284.3
1/4	4.8	284.1
cb	4.8	284.1
W. line	4.6	284.3

450' North N. ave.		
W. line	4.3	284.6
cb	4.2	284.7
1/4	4.2	284.7
C	4.4	284.5
1/4	4.0	284.9
cb	3.7	285.2
E. line	3.8	285.1

475' north N. ave.	R.R.	Elev.
E. line	3.4	285.5
cb	3.3	285.6
1/4	3.7	285.2
C	4.0	284.9
1/4	4.0	284.9
cb	4.0	284.9
W. line	4.3	284.6

500' North N. ave		
W. line	4.1	284.8
cb	4.0	284.9
1/4	3.7	285.2
C	3.8	285.1
1/4	3.8	285.1
cb	3.4	285.5
E. line	3.3	285.6

5-25' North N. ave.	R.R.	Elev.
E. line	3.2	285.7
cb	3.7	285.2
1/4	4.0	284.9
C	4.0	284.9
1/4	4.0	284.9
cb	4.3	284.6
W. line	4.0	284.9
5-50' North N. ave.		
W. line	3.9	285.0
cb	3.8	285.1
1/4	3.9	285.0
C	3.8	285.1
1/4	3.8	285.1
cb	3.7	285.2
E. line	3.3	285.6

(575') South line Grant ave.	R.R.	Elev.
E. line	3.7	285.2
cb	3.9	285.0
1/4	3.9	285.0
C	3.9	285.0
1/4	3.9	285.0
cb	4.3	284.6
W. line	4.1	284.8

Gulds
Lewis
Brooks

Feb. 21. 1905

138

69

Cross Section 9th St. from University ave. to Grant ave.

Same B.M. as for 8th St. E. Section

289.29 = H.I. R.R. Elev.

North line U. ave.

E. line		6.0	283.3
Cb		6.0	283.3
1/4		6.3	282.0
C		6.4	282.9
1/4		6.4	282.9
Cb		6.3	283.0
W. line		6.0	283.3

25' North U. ave.

W. line	5.5	283.8
Cb	5.4	283.9
1/4	5.7	283.6
C	6.2	283.1
1/4	6.2	283.1
Cb	6.3	283.0
E. line	6.5	282.8

50' North U. ave.

E. line	6.5	282.8
Cb	6.3	283.0
1/4	5.9	283.4
C	5.7	283.6
1/4	5.5	283.8
Cb	5.6	283.7
W. line	5.4	283.9

75' North U. ave.	R.R.	Elev.
W. line	5.7	283.6
CL	5.6	283.7
1/4	5.6	283.7
C	5.6	283.7
1/4	5.7	283.6
CL	5.6	283.7
E. line	5.7	283.6

100' North U. ave.		
E. line	5.5	283.8
CL	5.6	283.7
1/4	5.6	283.7
C	5.6	283.7
1/4	5.6	283.7
CL	5.6	283.7
W. line	5.6	283.7

125' North U. ave.	R.R.	Elev.
W. line	5.3	284.0
CL	5.4	283.9
1/4	5.4	283.9
C	5.2	284.1
1/4	5.3	284.0
CL	5.4	283.9
E. line	5.4	283.9

150' North U. ave.		
E. line	5.3	284.0
CL	5.1	284.2
1/4	5.0	284.3
C	5.0	284.3
1/4	5.1	284.2
CL	5.0	284.3
W. line	5.0	284.3

175' North U. ave.	R.R.	Elev.
W. line	4.8	285.5
CL	4.9	284.4
1/4	5.0	284.3
C	5.0	284.3
1/4	5.0	284.3
CL	5.1	284.2
E. line	5.1	284.2
200' North U. ave.		
E. line	5.2	284.1
CL	5.1	284.2
1/4	5.0	284.3
C	5.0	284.3
1/4	4.9	284.4
CL	4.9	284.4
W. line	4.7	284.6

225' North U. ave.	R.R.	Elev.
W. line	4.7	284.6
CL	4.8	284.5
1/4	4.8	284.5
C	4.9	284.4
1/4	5.0	284.3
CL	5.1	284.2
E. line	5.2	284.1
250' North U. ave.		
E. line	5.2	284.1
CL	5.1	284.2
1/4	5.1	284.2
C	5.0	284.3
1/4	4.8	284.5
CL	4.7	284.6
W. line	4.6	284.7

275' North N. ave.	R.R.	Elev.
W. line	4.5	284.8
CL	4.6	284.7
1/4	4.8	284.5
C	4.9	285.4
1/4	5.0	284.3
CL	5.2	284.1
E. line	5.3	284.0

300' North N. ave.		
E. line	5.4	283.9
CL	5.3	284.0
1/4	5.0	284.3
C	4.9	284.4
1/4	4.7	284.6
CL	4.6	284.7
W. line	4.4	284.9

325' North N. ave.	R.R.	Elev.
W. line	4.7	284.6
CL	4.8	284.5
1/4	4.8	284.5
C	4.9	284.4
1/4	5.0	284.3
CL	5.2	284.1
E. line	5.5	283.8

350' North N. ave.		
E. line	4.4	284.9
CL	5.0	284.3
1/4	5.4	283.9
C	5.1	284.2
1/4	5.1	284.2
CL	4.9	284.4
W. line	4.8	284.5

375' North U. ave.	R.R.	Elev.
W. line	5.1	284.2
Cb	5.2	284.1
1/4	5.2	284.1
C	5.1	284.2
1/4	5.4	283.9
Cb	5.7	283.6
E. line	5.8	283.5
400' North U. ave.		
E. line	5.6	283.7
Cb	5.3	284.0
1/4	5.2	284.1
C	5.2	284.1
1/4	5.2	284.1
Cb	5.1	284.2
W. line	5.0	284.3

425' North U. ave.	R.R.	Elev.
W. line	4.9	284.4
Cb	5.0	284.3
1/4	4.4	284.9
C	4.6	284.7
1/4	6.0	283.3
Cb	5.9	283.4
E. line	5.9	283.4
450' North U. ave.		
E. line	5.9	283.4
Cb	5.6	283.7
1/4	5.5	283.8
C	5.7	283.6
1/4	5.7	283.6
Cb	5.4	283.9
W. line	5.1	283.2

475' North U. ave.	R.R.	Elev.
W. line	5.1	284.2
cb	5.2	284.1
1/4	5.5	283.8
C	5.7	283.6
1/4	6.1	283.2
cb	5.7	283.6
E. line	5.9	283.4

500' North U. ave.		
E. line	5.7	283.6
cb.	5.5	283.8
1/4	5.7	283.6
C	5.5	283.8
1/4	5.7	283.6
cb	5.2	284.1
W. line	5.2	284.1

525' North U. ave.	R.R.	Elev.
W. line	5.1	284.2
cb	5.2	284.1
1/4	5.7	283.6
C	5.9	283.4
1/4	5.9	283.4
cb	6.0	283.3
E. line	6.1	283.2

550' North U. ave.		
E. line	6.3	283.0
cb	5.9	283.4
1/4	5.7	283.6
C	5.7	283.6
1/4	5.7	283.6
cb	5.5	283.8
W. line	5.3	284.0

5th South line Grant ave R.R. Elev.

W. line	5.5	283.8
Cb	5.8	283.5
¼	5.7	283.6
C	5.9	283.4
¼	6.4	282.9
Cb	6.4	282.9
E. line	6.9	282.4

67.66 B.M.
0.46
68.12 H.I.
6.72
61.40

61.40
2.815
64.215

So Line of B.	65.60	2.62	65.13	2.99	64.93	3.19	65.03	3.09	
25' East	64.67	3.45	64.20	3.92	64.00	4.12	64.10	4.02	
50' East	63.73	4.39	63.26	4.86	63.06	5.06	63.16	4.96	
75	62.80	5.32	62.33	5.79	62.13	5.99	62.23	5.89	1.85
100	61.87	6.25	61.40	6.72	61.20	6.92	61.30	6.82	1.15

3.48
55.57
59.05
2.30
56.75
10.18
66.88 H.I.

59.48

	65.60	1.28	65.13	1.75	64.93	1.95	65.03	1.85	
25	64.67	2.21	64.20	2.68	64.00	2.88	64.10	2.78	
50	63.73	3.15	63.26	3.62	63.06	3.82	63.16	3.72	
75	62.80	4.08	62.33	4.55	62.13	4.75	62.23	4.65	
100	61.87	5.01	61.40	5.48	61.20	5.68	61.30	5.58	
125	60.93	5.95	60.46	6.42	60.26	6.62	60.36	6.52	

66,884.1
694
59,94
1,61
61,554.1

150	6,00	1,58	59,53	1,35	57,33	1,55	59,43	1,45
175	59,07	2,48	58,60	2,95	58,40	2,15	58,50	2,05
200	58,13	3,42	57,66	3,89	57,46	4,09	57,56	3,99
225	57,20	4,35	56,73	4,82	56,53	5,02	56,63	4,92
250	56,26	5,29	55,79	5,76	55,59	5,96	55,69	5,86
275	55,33	6,22	54,86	6,69	54,66	6,89	54,76	6,79
300	54,40	7,15	53,93	7,62	53,73	7,82	53,83	7,72

55,557
598
61,155

5th Street
Grade from B to A

	H.L.	677							
		47							
4,31	59,88	724	55,57						
	268								
	57,20								
	677								
	63,97								
		54,40	5,48	53,93	5,95	53,73	6,15	53,83	6,05
		55,33	4,55	54,86	5,02	54,66	5,22	54,76	5,12
		56,26	3,62	55,79	4,09	55,59	4,29	55,69	4,19
		57,20	2,68	56,73	3,15	56,53	3,35	56,63	3,25
		58,13	5,84	57,66	6,31	57,46	6,51	57,56	6,41
		59,07	4,90	58,60	5,37	58,40	5,57	58,50	5,47
		60,00	3,97	59,53	4,44	59,33	4,64	59,43	4,54
		60,93	3,04	60,46	3,51	60,26	3,71	60,36	3,61

West Side of 5th Paving from B to A

5/6/05 Hutchison Evans Scriver,

		H.I.							
5.79	61.36		55.57						
	2.29								
	59.07								
	6.96	53.83	7.53	53.73	5.63	53.93	7.43	54.40	6.96
55.57	66.03								
10.46		54.76	6.60	54.66	6.7	54.86	6.50	55.33	6.03
		55.69	5.67	55.59	5.77	55.79	5.57	56.26	5.10
		56.63	4.73	56.53	4.83	56.73	4.63	57.20	4.16
		57.56	3.80	57.46	3.90	57.66	3.70	58.13	3.23
		58.50	2.86	58.40	2.96	58.60	2.76	59.07	2.29
		59.43	6.60	59.33	6.70	59.53	6.50	60.00	6.03
		60.36	5.67	60.26	5.77	60.46	5.57	60.93	5.10
		61.30	4.73	61.20	4.83	61.40	4.63	61.87	4.16
		62.23	3.80	62.13	3.90	62.33	3.70	62.80	3.23
		63.16	2.87	63.06	2.97	63.26	2.77	63.73	2.30
		64.10	1.93	64.00	2.03	64.20	1.83	64.67	1.36
		65.03	1.00	64.93	1.04	65.13	0.90	65.60	0.43

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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	28.82	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	37.06	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							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		

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