

*City Sewer
Levels.
Columbia St.*

9

TRANSIT

F.B.677

677

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

Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor. in links.
°		°		°		°	
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

160

233

26.62. }
 F. Miller. } July 20/57

1

Δ	+	H.I.	-	Elev	BB	REMARKS.
BM	168	12.57		10.89	10.89	
2+25			12.10	10.47		
2+5			17.20	5.37		
1+90			14.00	8.57		
1+75			8.96	3.61		
1+50			8.53	4.04		
Δ 1			8.78	3.79		
0+50			7.80	4.77		IH of Columbia 5/5.
Δ 1			7.54	5.13		
1+50			5.93	6.65		
Δ 2			5.68	6.89		
2+50			4.78	7.79		
Δ 3			3.94	8.63		
3+50			3.11	9.46		
Δ 4			2.50	10.07		
4+37.5			2.45	10.12		CH of Columbia 5/5.
4+75			1.70	10.87		
BM			1.68	10.89	10.89	
IP	6.96	17.83				
Δ 5			6.00	11.83		
5+50			6.20	11.63		

H.C.I.
F. Miller. } July 20, 1887.

2

Δ	+	H.I.	-	F.lev	BB	REMARKS.
$\Delta 6$		17.83	5.49	12.34		
6+50			5.32	12.51		
$\Delta 7$			5.04	12.79		
7+50			4.78	13.05		
7+75			4.57	13.26		
8+12.5			4.01	13.82		
8+50			4.95	12.88		
B.M.			8.54	9.29	9.29	on INDIAN & F. STS.
$\Delta 9$			4.74	13.09		
9+50			4.48	13.35		
10			3.81	14.02		
10+50			3.74	14.69		
I.P.	5.77	20.46				
$\Delta 11$			5.62	14.84		
11+50			5.54	14.92		
11+87.6			5.77	14.69		
B.M.			5.69	14.77	14.80	
12+25			5.25	15.21		
12+50			5.04	15.42		
13			4.28	16.18		
13+50			3.96	16.50		

The Co Columbia S/S.

on INDIAN & F. STS.

The Co Columbia S/S.

H.C.I.
F. Miller. } July 20, 1887.

3

Δ	+	H.I.	-	Elev	B.B.	REMARKS
Δ 14		20.46	3.47	16.99		
14+50			3.65	16.81		
Δ 15			3.63	16.83		
15+25			3.62	16.84		
B.M.			1.87	18.59	18.69	
I.F.	5.97	22.81				
15+87.5			4.56	18.25		D of Columbia. S/S.
16+50			5.01	17.80		
Δ 17			4.24	18.57		
17+50			3.41	19.40		
18			3.45	19.36		
18+50			2.76	20.55		
19			2.27	20.54		
19+50			1.78	21.03		
I.F.	4.70	25.73				
20			5.55	20.38		D of Columbia. S/S.
20+50			5.56	20.67		
21			4.80	20.93		
21+50			5.19	20.54		
22			7.00	18.73		
22+50			8.32	17.41		

H.C.L. }
 F. Miller. } July 20, 1887

4

Δ	+	H.I.	—	Elev	BB	REMARKS.
Δ 23		25.73	7.47	18.26		 B & Columbia Sts.
23+40			5.62	20.71		
B.M.			0.32	25.41	25.41	
I.P.	7.87	27.98				
24			8.14	19.84		
24+50			6.86	21.12		
25			5.82	22.16		
25+50			4.55	23.43		
26			2.79	25.19		
26+50			1.89	26.09		
27			1.55	26.43		A & Columbia Sts.
I.P.	9.69	30.92				
27+50			8.78	28.34		
28			6.87	29.25		
28+50			5.53	30.59		
29			4.40	31.72		
29+50			6.25	29.87		
30			7.43	28.69		
30+50			7.13	28.99		
B.M.			4.16	31.96	31.94	
40			6.63	29.49		A & Columbia Sts.

H.C.I.
F. Miller } July 20, 1887

5

Δ	+	H.I.	-	Elev	BB
T.P.	11.58	41.07			
Δ 1			10.07	31.00	
1+50			5.25	35.75	
2			3.18	37.89	
2+50			1.42	39.65	
3			0.73	40.34	
3+50			1.56	39.61	
T.P.	6.25	45.86			
B.M.			1.62	44.24	44.24
4			5.46	40.40	
4+50			4.69	41.77	
5			4.71	41.15	
5+50			4.00	41.86	
6			2.47	43.39	
6+50			1.13	44.73	
T.P.	7.26	51.99			
7			6.33	45.66	
7+50			4.98	47.01	
B.M.			3.36	48.63	48.63
T.P.	5.59	52.60			
8			4.55	48.05	

Beech & Columbia Sts.

H.C.L.
F. Miller } July 21, 1887

6

Δ + H.I. - Elev. B.B.

REMARKS.

8+50 52.60 3.95 48.65

CEGAR & Columbia Sts.

9 7.37 45.23

9+50 8.90 43.70

10 6.47 46.13

10+50 6.58 46.02

11 8.03 44.57

11+50 9.04 43.56

12 4.77 47.63

12+50 3.11 49.49

DATE & Columbia Sts.

T.E. 9.21 58.70

B.M. 11.67 47.03 47.03

INDIA ST.

13 2.75 55.95

13+50 1.35 57.35

14 0.46 58.24

T.P. 7.86 66.10

14+50 6.70 59.40

HELM & Columbia Sts.

15 5.87 60.23

15+50 4.87 61.23

16 4.56 61.54

16+50 4.84 61.26

17 4.18 61.92

H.C.L. }
 E. Miller. } July 21, 1887

A	+	H.I.	-	Elev B.B.	REMARKS.
17+50		66.10	3.00	63.10	
17+83.8			2.46	63.64	
4+50			2.31	63.79	
4.			2.28	63.82	
T.P.	3.45	67.27			
3+50			3.72	63.55	
3			3.59	63.68	
2+50			2.60	64.67	
T.P.					
2+30			0.95	63.98	
2			11.91	53.02	
1+75			14.60	50.33	
1+50			13.40	51.53	
1			8.48	56.45	
3+40			5.77	59.16	
B.M.			6.46	58.47	58.47
Δ/			2.81	62.12	
1+50			2.63	62.30	
T.P.	7.60	69.90			
3			7.20	62.70	
2+50			6.58	63.42	

17th & Columbia Sts.

17th & Columbia Sts.

H.C.I.
E. Miller } July 21, 1887

8

Δ	+	H.I.	-	Elev B.B.	REMARKS.
3		6990	5.38	64.52	
3+50			4.78	65.12	
4			4.52	65.38	
4+50			4.26	65.64	
5			4.91	64.99	
5+50			6.85	63.05	
6			5.03	63.87	
6+50			4.58	65.32	
III	4.65	6997			HAWTHORN & Columbia ST's.
7			4.63	65.34	
7+50			4.56	65.41	
7+80			4.83	65.14	
8			4.92	65.05	
B.M.			5.35	64.62	64.64
4			4.83	65.14	
3+50			5.48	64.49	
3			7.52	62.45	
2+50			10.65	59.32	
IV	0.67	5999			IVY & Columbia ST's.
2			3.28	56.71	
1+50			8.52	51.47	

H.C.L.
 F. Miller. } July 21, 1887

Δ	+	H.I.	—	Elev B.B.	REMARKS.
1+35		59.99	13.00	46.99	JUNIFER & Columbia Sts
/			5.57	54.42	
T.P.			0.73	59.86	
T.P.	9.48	69.34			
0+50			2.87	66.47	
B.M.			4.70	64.64 64.64	

1 Columbia N State

Sta	+	HI	-	Elev
Bm	10,96	57.81		46.85
11+22			8.61	49.20
+92			7.94	49.87
+52			7.69	50.17
+89			7.78	50.03
12+07			7.73	50.08
+32			3.18	54.63
+57			1.25	56.56
+42			1.16	56.65
11+77	7.98	64.95	0.94	56.97
13+07			7.74	57.21
+32			7.23	57.70
+57			6.70	58.25
+82			6.21	58.74
14+03			5.67	59.28
+23			5.50	59.85
+93			4.90	60.05
+63			4.46	60.49
+80			4.24	60.71

State Sta

N S State

S S Elev

S km Sta

N S Elev

2 Columbia or State

Sta	+	HD	-	blv
15+04		69.95	3.94	61.01
+33			3.61	61.34
+58			3.91	61.04
+89			4.82	60.93
16+04			3.90	61.05
+33			3.40	61.55
+58			2.92	62.03
+89			2.22	62.73
17+04			1.86	63.09
Bm			0.04	64.91

Flush Tanker 15 '8 Five

3 Union St Ash

Sta	T	HI	-	Obs
B.M.	11.16	49.98		38.82
+8.7			9.26	40.72
+17.4			9.00	40.98
+26.1			8.80	41.18
+34.8			8.52	41.46
+43.5			8.39	41.59
+52.2			8.03	41.95
+60.9			8.12	41.86
+82.7			7.33	42.85
1+07			6.99	43.04
+32			6.11	43.87
+57			6.52	44.66
+82			4.54	45.44
2+07			3.91	46.07
+32			3.03	46.95
+57			2.52	47.46
+82			1.71	48.27
3+07			1.19	48.89
#	8.78	57.87	0.89	49.09
+32			8.01	49.86
+57			7.38	50.49

P.T.

S. J. Beach

4 Wm in N Beach

Stn	+	0	-	0
3+77		57,87	7,01	50,86
+97			7,05	50,82
4+17			7,40	50,47
+37			7,47	50,96
+62			7,23	50,69
+87			6,52	51,35
5+12			6,06	51,81
+37			5,42	52,45
+62			4,94	52,93
+87			4,39	53,48
6+12			2,96	54,97
+57			0,98	56,89
#	11,07	68,09	0,85	57,02
+52			3,89	58,60
+87			7,74	60,35
7+12			5,97	62,12
+37			4,40	63,69
Bm	8,36	72,09	4,42	63,67
+57			8,87	63,96
+77			7,33	64,48

Beach St

N S Beach

S S. bedar St

Wm in S bedar Sph post

bedar St

3 - Minn of Date

Sta	+	Hg	-	Obs	
+97		72.03	7.18	64.85	
8+17			7.16	64.87	N. S. bedar
+42			6.75	65.28	
+67			6.26	65.83	
+99			5.58	66.44	
9+17			5.21	66.82	
+42			4.76	67.27	
+67			4.34	67.69	
+92			3.85	68.18	
10+17			3.45	68.58	
+42			3.10	68.93	
+67			2.50	69.53	
+99			1.95	70.08	
11+14			1.32	70.57	N. S. Date
#	5.63	95.73	1.93	70.10	
Bm	4.56	79.48	0.80	74.93	74.92 Minn & Date
+34			8.97	70.57	
+34			8.50	70.98	Date Sh
+74			8.64	70.84	
+94			8.21	71.27	N. S. Date Sh

6 Union St Ash

Sta	+	HO	-	blu
12719.4		79.48	8.00	71.48
+44.8			7.58	72.10
+70.2			7.08	72.40
+95.6			6.54	72.94
13+21			6.07	73.41
+46.4			5.86	73.62
+60.1			5.51	73.97
+71			5.29	74.19
+96			4.83	74.65
14+21			4.33	75.16
+46			4.14	75.54
+71			3.67	75.81
+96			3.20	76.25
Bm	7.60	85.24	1.84	77.64
15+16			8.62	76.62
+36			8.10	77.14
+58			7.86	77.34
+76			7.42	77.82
16+01			6.45	74.39
+26			6.14	79.10

Ahebe Abbatross St

S L Clin St
bot, play S Clin

Clin St

N L Clin St

7 Albatross St

+51		85.24	4.91	80.33
+72.3			3.99	81.25
+76				
+77+01				
Union St above Albatross				
+6+72.3	y			
+89			3.66	81.58
+17+14			2.92	82.32
+39			1.97	83.27
#	8.75	92.21	1.79	83.45
+64			7.40	84.71
+89			6.70	85.51
+18+14			5.54	86.67
+39			4.38	87.83
+64			3.25	88.96
+69			2.26	89.95
+19+03			1.72	90.99
B ₁₁	5.55	95.28	2.48	89.73
+23			4.14	91.14
+43			4.01	91.27

Y Union St

S & Fire St

Union & Fire box culvert

Fire St angle

Union N Fir

Sta	+	H ₀	-	G
+65		95.28	3.98	91.30
+85			4.10	91.18
20+03			4.03	91.25
+25			4.07	91.21
+44			3.73	91.55
+75			3.79	91.49
+98			3.67	91.61
21+23			3.66	91.62
+48			3.48	91.80
+73			3.52	91.96
+98			3.25	92.03
22+23			2.96	92.32
+46			2.91	92.37
+73			2.56	92.72
23+00			2.41	92.87
B.M.	11.77	100.44	6.61	84.67
+25			7.66	92.78
+43			7.51	92.93
+63			7.28	93.16
+80			6.90	93.54

N S Fir St

S S Grape St

Union S Grape SW sph house

8 Union A Grape

Sta	+	⌈	-	C
24700		100.44	6.43	94.01
+28			5.80	94.69
+33			5.22	95.22
+78			4.75	95.69
25700			4.16	96.28
+24			3.62	96.82
+53			2.89	97.55
+76			2.51	98.13
26700			1.73	98.71
+28			1.35	99.09
+53			0.90	99.69
+78			0.32	100.12

N S Grape 11

F. best Tank

9 Branch St N Y on Union St

B.M.	11.84	100.51		88.67
#	7.80	107.06	1.26	99.26
P.M.#	2.09	107.17	1.98	105.08
			9.33	97.84
+10.8			8.81	98.36
+21.6			8.22	98.95
+32.4			7.84	99.33
+47			7.36	99.81
+72			6.64	100.53
+97			5.90	101.27
+122			4.87	102.50
+47			4.16	103.01
B.M.	7.52	112.60		105.08
+67			8.87	103.73
+87			8.32	104.28
+107			7.57	105.03
+27			7.04	105.56
+52			6.05	106.55
+77			4.93	108.25
+102			2.89	109.91

Branch & Jay bet top feet

S L Hawthorn,
bet top feet

Hawthorn St

N L Hawthorn

Bunch Ave N of				
Sta	+	+	-	C
3727		112.60	1.13	111.47
#	10.75	122.66	0.69	111.91
+52			9.43	113.23
+77			7.79	114.87
4702			6.33	116.33
+27			4.80	117.86
+52			3.18	119.44
+77			1.33	121.33
#	7.09	128.75	1.00	121.66
5702			6.06	122.69
+27			4.66	124.09
B 911	4.41	129.37	3.79	124.96
+47			4.98	124.39
+67			4.88	124.49
+87			4.85	124.52
6707			5.02	124.35
+32			4.70	124.67
+57			4.24	125.09
+72			3.98	125.39
57707			3.71	125.66

Hawthorn

124.

Is I am
upk at W con

I my Lt

N L my.

Brent A Hawthorn

Sto	+	*	-	6
7+02		129.37	3.42	125.95
557			3.10	126.27
+72			2.93	126.74
8+07			2.46	126.91
4+02			2.24	127.13
+57			1.77	127.60
+72			1.02	124.15

F. Lush Tank

The image shows an open notebook with two pages. The left page is ruled with a grid and features two vertical red lines that divide the page into three columns. The right page is also ruled with a grid but is otherwise blank. The notebook is bound in the center with visible stitching. The page number '22' is printed in the top right corner of the right page.

2nd Sh of B

Sta	+	HD	-	elev
Bm	7.56	48.66		41.30
31			7.26	41.40
+20			7.04	41.62
+40			7.29	41.37
+60			6.90	41.76
+85			6.22	42.44
32+10			5.49	43.17
+35			4.65	44.51
+60			3.61	45.03
+85			2.44	46.22
33+10			1.19	47.47
#	8.61	56.50	0.77	47.49
+35			5.03	48.77
+60			7.13	49.37
+85			6.17	50.33
34+10			5.65	50.85
+35			4.53	52.17
+60			3.20	53.30
Bm	9.44	64.00	1.94	54.56
+80			10.04	53.92
35			9.20	54.80

B Sh

N. S. B Sh

Sh of A
2nd of A

A Sh

L Sh N of Ash				
Str	+	HD	-	C
35+20		64.00	8.85	55.15
+40			8.34	55.26
+65			7.64	56.36
+90			6.96	57.04
36+15			6.24	57.76
+40			5.46	58.54
+65			4.57	59.40
+90			3.90	60.07
37+15			3.19	60.81
+40			2.52	61.49
+65			1.89	62.31
+90			1.15	62.85
38+15			1.67	63.00
+40			0.14	63.86
#	4.39	71.70	0.69	63.51
Bm	9.72	75.70	5.73	65.97 65.94
+60			11.25	64.75
+90			10.92	64.78
39			10.72	64.98
+20			10.12	65.58

N. S. Ash

S. S. Ash St

2nd & Ash St. up to post

Ash St

N. S. Ash

Land A Ash

Str	+	A	-	6
39+45		75.70	9.22	66.48
+70			8.20	67.50
+95			7.36	68.34
40+20			6.48	69.22
+45			5.40	69.90
+70			4.89	70.81
+95			3.81	71.89
41+20			3.13	72.57
+45			2.52	73.38
+70			1.74	73.96
+95			0.94	74.76
42+20			0.15	75.55
Bm	11.70	86.17	1.23	74.47
+40			10.01	76.16
+60			9.57	76.60
+80			9.75	76.42
43			9.37	76.80
+25			9.01	77.16
+50			4.78	77.39
+75			8.54	77.63

76.00

S L Beech Sr

Beech Sr

N L Beech Sr

Land		N Beech	
Sta	+	H ₂ O	- C
44		86.17	8.27 77.90
+25			7.47 78.70
+50			6.58 79.59
+75			5.84 80.33
45			4.81 81.36
+25			3.57 82.66
+50			2.45 83.72
#	7.14	92.34	0.97 85.20
+75			7.27 85.07
46			6.06 86.28
B.M.	11.46	95.30	8.50 83.84
+20			7.64 87.62
+40			6.87 88.43
+60			6.28 89.02
+80			5.81 89.49
47+05			5.01 90.29
+30			4.35 90.95
+55			3.60 91.70
+80			3.21 92.09
48+05			2.57 92.73

97.50

S L bedar

bedar St

N L bedar St

L and N bedun

Sta	+	HD	-	6
48+30		95.30	2.04	93.26
+55			1.60	93.70
+80			0.84	94.46
#	9.31	103.91	0.70	94.60
49+05			8.83	95.08
+30			8.10	95.81
+55			7.55	96.36
+80			6.52	97.39
Bm	5.56	109.00	0.25	103.66 103.64
50			11.14	97.86
+20			9.85	99.15
+40			8.97	100.03
+60			8.37	100.63
+85			7.10	101.90
51+10			5.71	103.29
+35			4.00	105.00
+60			2.67	106.33
+85			1.50	107.50
#	11.57	119.87	0.70	114.30
52+10			10.64	109.19

S to Gate

Gate to 2nd

Gate to

N to Gate to

Land Sta. N. State

Sta	+	AS	-	Elev
52+05		119.87	9.22	110.65
+60			7.72	112.15
+85			6.42	113.45
53+10			5.17	114.70
+35			3.81	116.06
+60			2.62	117.25
Bm	10.55	127.87	2.55	117.32
+40			9.66	118.21
54			8.85	119.02
+20			7.94	119.23
+40			7.27	120.66
+65			5.63	122.24
+90			3.51	124.36
53+15			0.94	126.93
#	10.55	137.46	0.96	126.91
+40			8.49	128.97
+65			6.45	131.01
+90			4.00	133.46
56+15			0.89	136.37
#	10.42	146.95	0.93	136.33

S. S. Elm St.
 Elm's Second

Elm St.

N. S. Elm St.

2nd N. of Elm

Stk	T	719	-	660
56+40		146.95	6.90	140.05
+65			3.24	143.71
#	9.71	155.80	0.86	146.09
+90			4.20	147.60
57+15			4.59	151.21
+40			1.46	154.34
Bm	10.64	164.06	2.08	153.42
+60			8.46	155.60
+80			7.97	156.09
58			7.36	156.70
+20			6.64	157.42
+45			5.62	158.44
+70			4.48	159.54
+95			3.36	160.70
59+20			2.50	161.56
+45			1.47	162.59
#	9.45	172.39	1.12	162.94
+70			8.92	163.47
+95			8.10	164.29

S to Fir sh
S W loop sh

Fir sh

N to Fir sh

Bond A Fire - Sh

Sto	+	910	-	6
60+20		172.39	6.80	165.59
+45			5.72	166.67
+70			4.52	167.87
+95			3.82	168.57

F. Lush Frank

3 rd St. A. Hart

Str	+	90	-	0
Bm	9.89	120.45		110.54
50485			8.19	112.24
51+10			5.90	114.53
+35			3.62	116.81
+60			1.02	119.41
#	10.16	129.79	0.80	119.65
+85			9.86	121.93
52+10			3.43	124.36
+35			3.17	126.62
+60			1.01	128.74
#	11.04	140.10	0.73	129.66
+85			9.18	130.92
53+10			6.96	133.14
+35			4.88	135.22
+60			2.59	137.51
#	5.55	144.51	0.84	139.16
Bm	6.39	149.65	1.46	143.05 145.04
+80			11.00	138.65
54			10.51	139.34
+20			9.84	139.81
+40			9.50	140.35

S. S. Chm. St.

Chm. St.

S. S. Chm. St.

3rd St of film

Sto	+	H9	-	Over
34+65		149.65	7.93	141.72
+90			6.21	143.44
53+15			4.08	145.57
+90			1.78	147.87
#	11.48	160.36	0.77	148.88
+65			10.57	149.79
+90			9.72	151.69
56+15			6.71	153.65
+40			4.53	155.91
+65			2.75	157.61
+90			0.78	159.58
#	9.19	168.43	1.12	159.24
57+15			6.78	161.65
+40			5.28	163.15
Bm#	7.82	175.11	1.14	167.29
+60			11.01	164.10
+80			10.60	164.51
58			10.46	164.65
+20			10.46	164.65

175.11
 163.30
 11.81

S L Fin St

N d Corp top part 3rd & Fin

Fin St

N S Fin St

3rd St N Tric

Sto	+	879	-	blev
58+45		175.11	9.81	165.30
+70			9.28	166.09
+95			8.19	166.92
59+30			7.16	167.95
+45			5.85	169.26
+70			4.56	170.53
+95			3.21	171.90
60+20			1.82	173.23
#	11.77	185.38	1.50	173.61
+45			10.71	174.67
+70			9.10	176.24
+95			7.56	177.82
61+20			6.47	178.91
B.M.			1.56	183.82

Flush Fork S. S. S. S.

Sta 0 = 4 ft East of Res. Bulkhead

35

Soundings for Outlet

pipe to Reservoir

Sta	Sounding
0	-10.4
+12	-12.8
+24	-12.9
+36	-12.9
+48	-12.9
+60	-12.9
+72	-12.8
+84	-12.8
+96	-12.9
+108	-13.00
+120	-13.00
+132	-12.9
+144	-12.7
+156	-12.8
+168	-12.9
+180	-13.1
+192	-13.1
2104	-13.1
+16	-13.2
+28	-13.3
+40	-13.3

Began at the first joint
of the pipe on the outside
of the Reservoir and
took soundings at
each successive joint

Soundings for Outlet pipe to Reservoir

St. Soundings

2752	-13.2
264	-13.3
276	-13.2
288	-13.2
3100	-13.2
212	-13.4
224	-13.3
236	-13.4
248	-13.6
260	-13.5
272	-13.4
284	-13.5
296	-13.6
3108	-13.3
220	-13.2
232	-13.3
244	-13.3
256	-13.5
268	-13.4
280	-13.4
292	-13.4

Soundings for Outlet

Pipe to Reservoir

Sta Sounding

5704	-13.4
+16	-13.3
+28	-13.3
+40	-13.2
+52	-13.4
+64	-13.2
+76	-13.2
+88	-12.9
6+00	-12.9
+12	-12.6
+24	-12.7
+36	-12.6
+48	-12.7
+60	-12.5
+72	-12.5
+84	-12.3
+96	-12.2
7+08	-12.1 +
+20	-12.2
+32	-11.8
+44	-11.7

Soundings for Pullet pipe to Reservoir


Str. Soundings

+36	-11.4
+68	-11.3
+80	-11.0
+92	-10.7
8709	-10.6
+16	-10.4
+28	-10.2
+40	-9.7
+52	-9.4
+64	-9.3
+76	-9.0
+88	-8.7
91700	-8.1
+12	-8.1
+24	-7.9
+36	-7.8
+48	-7.4
+60	-7.3
+72	-7.0
+84	-6.6
+96	-6.3

Soundings for Outlet
Sto Soundings

10708	-5.4
120	-4.2
132	-3.5
144	-4.0
156	-3.0
168	-2.6

Pipe to Reservoir



W 2 Atlantic St

Sta	Station to water line	Water line to ward pan	Total
0		-18.1	
+36		-19.50	
+72		-19.30	
1+08		-18.60	
+44		-18.00	
+80		-17.70	
2+16		-22.00	
+52		-19.40	
+68		-18.90	
3+24		-20.20	
+60	6.80	2.00	-20.60
+96	8.60	11.80	-20.40
4+32	8.80	11.50	-20.30
+68	8.60	11.50	-20.30
5+04	8.90	10.60	-19.50
+40	9.00	9.00	-18.00
+76	9.00	8.50	-17.50
6+12	9.10	7.80	-16.90
+48	9.10	7.90	-17.00
+84	9.10	7.50	-16.60

	Water	Water line	Water line	Water line
7+20	9.20	6.80	16.00	
+56	9.00	6.60	15.60	
+92	9.00	5.70	14.70	
8+28	9.00	5.50	14.50	
+64	9.00	6.10	15.10	
9+10	8.10	5.40	13.50	
+36	7.80	5.50	13.30	
+72	6.80	7.30	14.10	
10+08	3.90	5.30	9.20	
+44				

55 ft from
Banks

Soundings for hand

Soundings for water outlet pipe

Sta

Soundings

Began at the first joint
of pipe outside of the
Reservoir

0	-18.1
+36	-19.5
+72	-18.3
+108	-18.6
+56	-18.0
+92	-17.7
2+28	-22.0
+64	-19.4
3	-18.2
+36	-20.2
+72	-20.6
4+08	-20.4
+44	-20.3
+80	-20.3
5+16	-19.5
+52	-18.0
+88	-17.5
6+24	-16.9
+60	-17.0
+96	-16.6
7+32	-16.0

$$\begin{array}{r} 181 \\ 104 \\ \hline 77 \end{array}$$

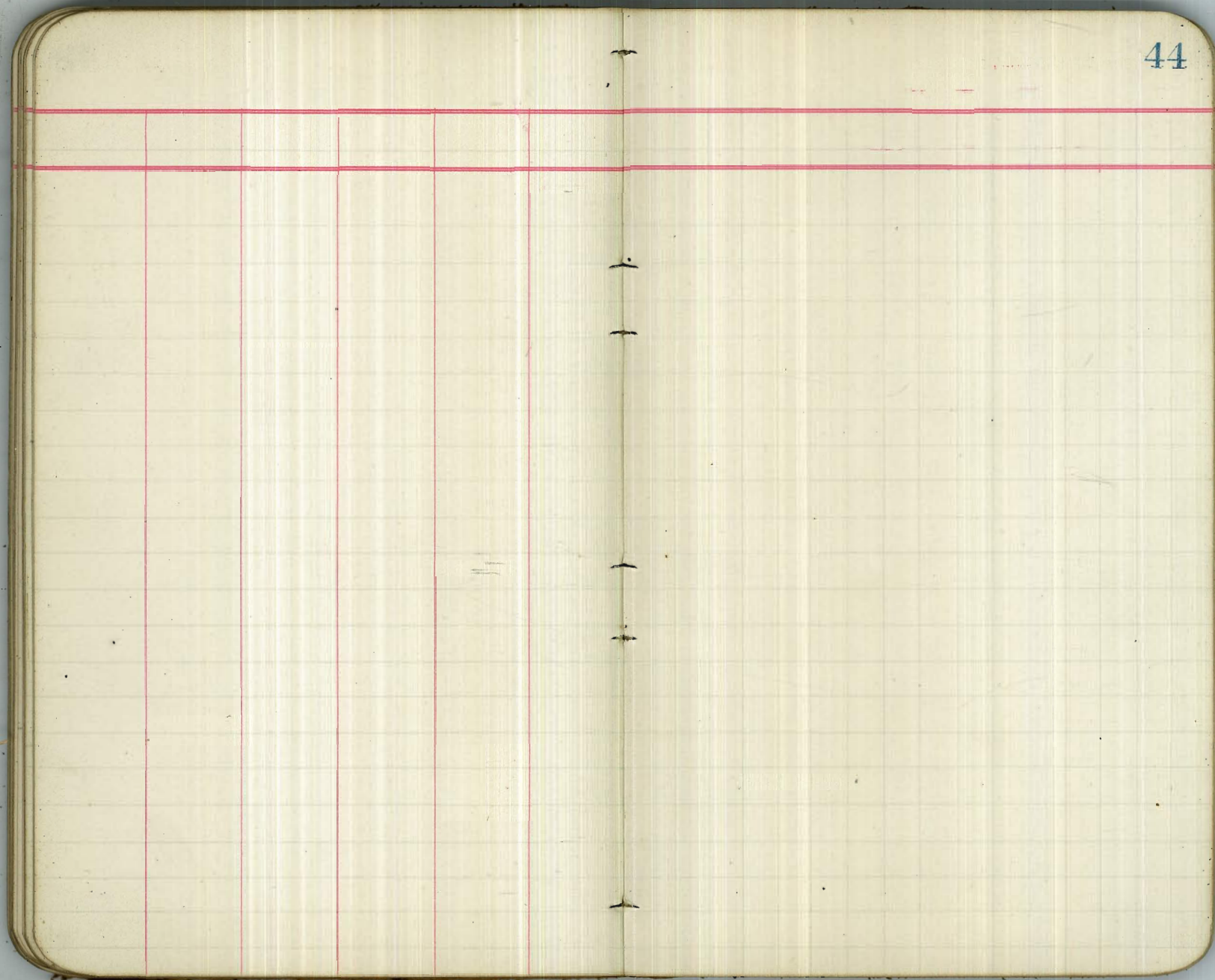
$$\begin{array}{r} 155 \\ 21.5 \\ \hline 8.6 \end{array}$$

Soundings for hard pan under outlet pipe

S. to - to hard pan

7768	-15.0
8704	-14.7
+40	-14.5
+76	-15.1
9712	-15.5
+48	-15.3
+84	-14.1
10720	-9.2
+68	

W. L. Atlantic II



5th St connection to Main North side

Sta + IPI - Elev

Bm	1.95	9.48	7.43
0		4.21	5.27
+14		4.05	5.43
+24		3.87	5.61
+34		3.64	5.84
+44=1		3.60	5.88

5th & R St
Y 5th St

N S R St = Sta 1

State Sh connection with the main

Stn	+	912	-	Clb
BM	6.38	13.61		7.23
0			6.14	7.47
+9			6.08	7.55
+19			5.95	7.66
+28			5.72	7.89
+34			5.96	7.65
+47			6.24	7.57
+37			6.53	8.08
+66			5.47	8.14
+76			4.74	8.87
+80=1			4.75	8.86
+105			4.21	9.40

Grades on lateral fur

Mc Balala

Stk	+	H ₂	-	S
BM	1.13	106.21		105.08
0+10			10.17	96.04
+20			9.94	96.27
+30			9.84	96.37
+35			10.01	96.20
+40			8.90	97.51
+65			5.53	100.68
+90			4.68	101.53

Gutter

Bm	5,70	89.54	43.84
48		3,27	86.27
+75		4,49	85.05
+50		5,80	83.71
+25		6,88	82.66
45		8,19	81.30
+75		9,20	80.34
+50		9,95	79.59

Bm	±	H ₂ O	-	blew
Bm	3.54	73.80		70.26
Bm			7.52	65.98
#	11.88	82.41	3.27	70.63
Bm			7.93	74.48 74.41
#	10.01	90.14	2.28	80.13
Bm			6.30	83.84
#	10.78	100.16	0.76	89.38
#	5.40	103.76	2.20	97.96
Bm#	10.58	113.72	0.12	103.64
#	11.13	124.15	0.70	113.02
Bm			6.43	117.32

2nd & Ash

2nd & Ash S.E. sph fork

2nd & Beech S.W. sph fork

2nd & Cedar S.W. S.P.

2nd & Date C.B. B 30 SW. C.M.

28 Elm sph Br. Barn N.W.

B
B
7
B
7
B
7
B

8.7

1576
963
1672
112.60
9.67
103.03

65.98
65.91
7
91.98
129.37
5.24
124.09

95.30
9.01
99.29
95.30
9.50
9.40
95.50
96.00
9.30

65.98
65.91
7
154.00
71.77
1.57
70.20

107.68
30
109.8

11.20
10.98
2.2

92.3
21
25
210
59
44.5

2
ff
ss