

SEWERAGE GRADES

5.6 8+9 N. of D. 11th N. of L.

9

TRANSIT

F. B. 648

648

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	2½	21	49	41	95½
2	4½	22	51½	42	98
3	7	23	53½	43	100½
4	9½	24	56	44	102½
5	11½	25	58½	45	105
6	14	26	60½	46	107½
7	16½	27	63	47	109½
8	18½	28	65½	48	112
9	21	29	67½	49	114½
10	23½	30	70	50	116½
11	25½	31	72½	51	119
12	28	32	74½	52	121½
13	30½	33	77	53	123½
14	32½	34	79½	54	126
15	35	35	81½	55	128½
16	37½	36	84	56	130½
17	39½	37	86½	57	133
18	42	38	88½	58	135½
19	44½	39	91	59	137½
20	46½	40	93½	60	140

MICROFILMED

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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	1-21	16	4-02	23	8-64	30	15-47
10	1-55	17	4-56	24	9-47	35	22-07

5th St - North St
 6th St - North St
 8th St - North St
 9th St - North St
 10th St - North St

5867
 1046
 6.3

Book

9

1

Street	Pages	Location
5th St	1 - 8	5th N of Ash
6th St	9 - 15	6th N of S
8th St	16 - 22	8th N of S
9th St	23 - 29	9th N of S

See also Book 662/26

5th St - N of Ast

Sta	Elev	Grade	cut	
42+20		70.50		X
+40		71.13		
+60		71.75		
+80		72.39		
43	79.16	73.00	6.16	6' 1 $\frac{1}{2}$ " X
+20	80.10	74.33	5.77	5' 9 $\frac{1}{4}$ "
+40	81.59	75.67	5.92	5' 11"
+75	83.22	76.99	6.23	6' 2 $\frac{1}{4}$ "
44	84.54	78.33	6.25	6' 3"
+25	85.97	79.67	6.30	6' 3 $\frac{1}{2}$ "
+50	87.50	80.99	6.51	6' 6"
+75	88.92	82.33	6.49	6' 5 $\frac{1}{4}$ "
45	90.18	83.67	6.51	6' 6 $\frac{1}{8}$ "
+25	91.19	84.99	6.20	6' 2 $\frac{3}{8}$ "
+50	92.81	86.33	6.48	6' 5 $\frac{3}{4}$ "
+75	94.09	87.67	6.42	6' 5"
46	95.36	89.00	6.36	6' 4 $\frac{3}{8}$ " X
+20	96.24	90.05	6.19	6' 2 $\frac{1}{4}$ "
+40	96.89	91.11	5.78	5' 9 $\frac{3}{8}$ "
+60	97.34	92.16	5.22	5' 2 $\frac{1}{4}$ "
+80	97.74	93.21	4.54	4' 6 $\frac{3}{8}$ "

31.25 =
1.25

5.3333 =
1.00

SL Ast 70.50

Ast

NZ Ast 73.0

SL Buach 89.0

Buach

NZ Buach

5th N-Nod Ash

Sta	Elev	Grade	Cut	
47+05	99.24	94.53	4.71	4' 8 $\frac{1}{2}$ "
+30	100.60	95.84	4.76	4' 9 $\frac{1}{4}$ "
+54	102.13	97.15	4.98	4' 11 $\frac{3}{4}$ "
+80	103.51	98.47	5.04	5' 0 $\frac{1}{2}$ "
48+05	105.08	99.78	5.30	5' 3 $\frac{3}{4}$ "
+30	106.65	101.10	5.55	5' 6 $\frac{5}{8}$ "
+56	108.14	102.41	5.73	5' 8 $\frac{3}{4}$ "
+80	109.68	103.73	5.95	5' 11 $\frac{3}{8}$ "
49+05	110.98	105.04	5.94	5' 11 $\frac{1}{4}$ "
+30	112.74	106.36	6.38	6' 4 $\frac{3}{4}$ "
+53	114.14	107.67	6.51	6' 6 $\frac{5}{8}$ "
+80	115.58	109.00	6.58	6' 7" x
50	116.12	109.76	6.36	6' 4 $\frac{3}{4}$ "
+20	116.61	110.52	6.09	6' 1 $\frac{1}{8}$ "
+40	117.36	111.28	6.08	6' 1"
+60	118.17	112.05	6.12	6' 1 $\frac{1}{2}$ "
+85	119.21	112.99	6.22	6' 2 $\frac{5}{8}$ "
51+10	120.16	113.95	6.21	6' 2 $\frac{1}{2}$ "
+85	121.24	114.90	6.34	6' 4 $\frac{1}{4}$ "

5.2681

1.100

8.8095

1.000

S Cedar

109.00

Cedar

N Cedar

5th St W of Ast

Sta Elev from cur

57+60	122.17	116.86	6.31	6' 3 $\frac{1}{4}$ "
+85	123.07	116.81	6.26	6' 3 $\frac{1}{4}$ "
52+10	123.93	117.76	6.17	6' 2"
+85	125.00	118.71	6.29	6' 3 $\frac{1}{2}$ "
+60	126.02	119.67	6.35	6' 4 $\frac{1}{4}$ "
+85	126.87	120.62	6.25	6' 3"
53+10	127.96	121.57	6.39	6' 4 $\frac{3}{4}$ "
+85	128.94	122.52	6.42	6' 5"
+60	130.01	123.47	6.54	6' 6 $\frac{1}{2}$ "
+80	130.54	124.24	6.30	6' 3 $\frac{3}{8}$ "
54	130.84	125.00	5.84	5' 10 $\frac{1}{8}$ " x
+20	131.58	125.48	6.15	6' 1 $\frac{3}{4}$ "
+40	131.76	125.56	5.90	5' 10 $\frac{3}{4}$ "
+65	132.57	126.39	6.18	6' 2 $\frac{1}{4}$ "
+90	132.98	126.93	6.05	6' 0 $\frac{3}{4}$ "
55+14	133.36	127.46	5.90	5' 10 $\frac{3}{4}$ "
+40	133.88	127.99	5.89	5' 10 $\frac{3}{4}$ "
+65	134.26	128.54	5.72	5' 8 $\frac{3}{8}$ "
+90	134.59	129.07	5.52	5' 6 $\frac{1}{4}$ "

3.80
95-

21.42
172

L. L. Law

Date 11-

125.0

N. J. Law 11-

5" St. No. of Ast.

Sta	Elev	Grade	Cut	
56+15	132.91	129.61	5.30	5' 3 $\frac{1}{2}$ "
+10	135.20	130.14	5.06	5' 0 $\frac{3}{4}$ "
+65	135.50	131.68	4.82	4' 10"
+90	136.01	131.21	4.80	4' 9 $\frac{3}{4}$ "
57+15	136.50	131.75	4.75	4' 9"
+40	137.05	132.29	4.76	4' 9 $\frac{1}{2}$ "
+60	137.49	132.71	4.78	4' 9 $\frac{3}{4}$ "
+80	138.19	133.14	5.05	5' 0 $\frac{1}{2}$ "
58	138.84	133.57	5.27	5' 8 $\frac{1}{4}$ "
+20	139.58	134.00	5.58	5' 7"
+45	140.66	135.28	5.38	5' 4 $\frac{1}{2}$ "
+70	141.72	136.57	5.15	5' 1 $\frac{3}{4}$ "
+95	142.91	137.85	5.06	5' 0 $\frac{3}{4}$ "
59+20	144.08	139.13	4.95	4' 11 $\frac{3}{8}$ "
+45	145.35	140.41	4.94	4' 11 $\frac{1}{4}$ "
+70	146.59	141.70	4.89	4' 10 $\frac{3}{4}$ "
+95	147.87	142.98	4.89	4' 10 $\frac{1}{2}$ "
60+20	149.36	144.26	5.10	5' 1 $\frac{1}{2}$ "
+45	150.45	145.55	4.90	4' 10 $\frac{3}{4}$ "
+70	151.64	146.83	4.81	4' 9 $\frac{3}{4}$ "

S. L. Elev

Elev St

N. L. Elev

134.10

5/13/51.100

5th St - N of Ash

Sta	Elev	Grade	Cut	
60+85	153.17	148.11	5.06	5' 0 $\frac{3}{4}$ "
61+20	154.34	149.39	4.95	4' 11 $\frac{1}{2}$ "
+40	155.05	150.42	4.63	4' 7 $\frac{3}{8}$ "
+60	156.23	151.45	4.78	4' 9 $\frac{3}{8}$ "
+80	157.22	152.47	4.75	4' 9"
62	158.47	153.50	4.97	4' 11 $\frac{1}{2}$ "
+25	159.94	154.78	5.16	5' 1 $\frac{7}{8}$ "
+50	161.18	156.06	5.12	5' 1 $\frac{1}{2}$ "
+75	162.62	157.35	5.27	5' 3 $\frac{1}{4}$ "
63	163.95	158.63	5.32	5' 3 $\frac{3}{4}$ "
+25	165.38	159.91	5.47	5' 5 $\frac{1}{2}$ "
+50	166.79	161.20	5.59	5' 7 $\frac{1}{4}$ "
+75	168.44	162.48	5.96	5' 11 $\frac{1}{2}$ "
64	169.88	163.76	6.12	6' 1 $\frac{1}{2}$ "
+25	171.26	165.04	6.22	6' 2 $\frac{3}{4}$ "
+50	172.34	166.33	6.01	6' 0 $\frac{1}{4}$ "
+75	173.56	167.61	5.95	5' 11 $\frac{3}{8}$ "
65	174.92	168.89	6.03	6' 0 $\frac{3}{8}$ "
+20	175.98	169.92	6.06	6' 0 $\frac{3}{4}$ "
+40	177.01	170.95	6.06	6' 0 $\frac{3}{4}$ "

S L Pine St

Pine St

N L Pine St

S L Grape

Grape St

5th S-N of Act.

Sta	Elev	Grade	Cut	
65+60	177.40	171.97	5.43	5'10"
+80	178.70	173.00	5.70	5'8 $\frac{3}{4}$ "
66+05	179.84	174.32	5.56	5'6 $\frac{3}{4}$ "
+80	181.31	175.63	5.68	5'8 $\frac{1}{8}$ "
+55	182.41	176.95	5.46	5'5 $\frac{1}{2}$ "
+80	183.49	178.27	5.52	5'6 $\frac{1}{4}$ "
67+05	185.35	179.58	5.77	5'9 $\frac{1}{4}$ "
+80	186.61	180.90	5.71	5'8 $\frac{1}{2}$ "
+55	187.83	182.21	5.62	5'7 $\frac{1}{2}$ "
+80	189.15	183.53	5.62	5'7 $\frac{1}{2}$ "
68+05	190.59	184.85	5.74	5'8 $\frac{3}{4}$ "
+80	191.89	186.16	5.73	5'8 $\frac{3}{4}$ "
+55	193.35	187.48	5.87	5'10 $\frac{1}{2}$ "
+80	194.57	188.80	5.77	5'9 $\frac{1}{4}$ "
69	195.32	189.85	5.47	5'5 $\frac{5}{8}$ "
+20	196.29	190.90	5.39	5'4 $\frac{1}{2}$ "
+40	197.36	191.96	5.40	5'4 $\frac{3}{4}$ "
+60	197.95	193.00	4.95	4'11 $\frac{3}{4}$ "
+85	199.29	194.13	5.16	5'1 $\frac{3}{4}$ "
70+10	201.28	195.25	5.03	5'0 $\frac{3}{4}$ "

5.2631
1.60

N.L. Grapish 173.0

N.L. Hawthorne

Hawthorne St

N.L. Hawthorne 193.0

5th St - N of Act

Sta	Elev	Grade	Cut	
70+35	201.58	196.38	5.20	5' 2 3/8"
+60	203.12	197.50	5.62	5' 1/2"
+85	204.14	198.63	5.51	5' 6 3/8"
71+10	205.30	199.75	5.75	5' 9"
+35	206.57	200.83	5.74	5' 8 3/8"
+60	207.84	202.00	5.84	5' 10 1/4"
+85	208.83	203.13	5.70	5' 8 3/8"
72+10	210.23	204.25	5.98	5' 11 3/4"
+35	211.62	205.38	6.24	6' 2 3/4"
+60	212.70	206.50	6.20	6' 2 3/4"
+80	213.72	207.50	6.22	6' 2 5/8"
73	214.36	208.50	5.86	5' 10 3/8"
+20	215.25	209.50	5.75	5' 9"
+40	215.81	210.50	5.31	5' 9 3/4"
+65	217.35	211.75	5.60	5' 7 1/4"
+90	218.58	213.00	5.58	5' 7"
74+15	219.75	214.25	5.50	5' 6"
+40	220.66	215.50	5.16	5' 1 3/8"
+65	221.68	216.75	4.93	4' 11 1/4"
+90	223.17	218.00	5.17	5' 2"

1.5

1.9

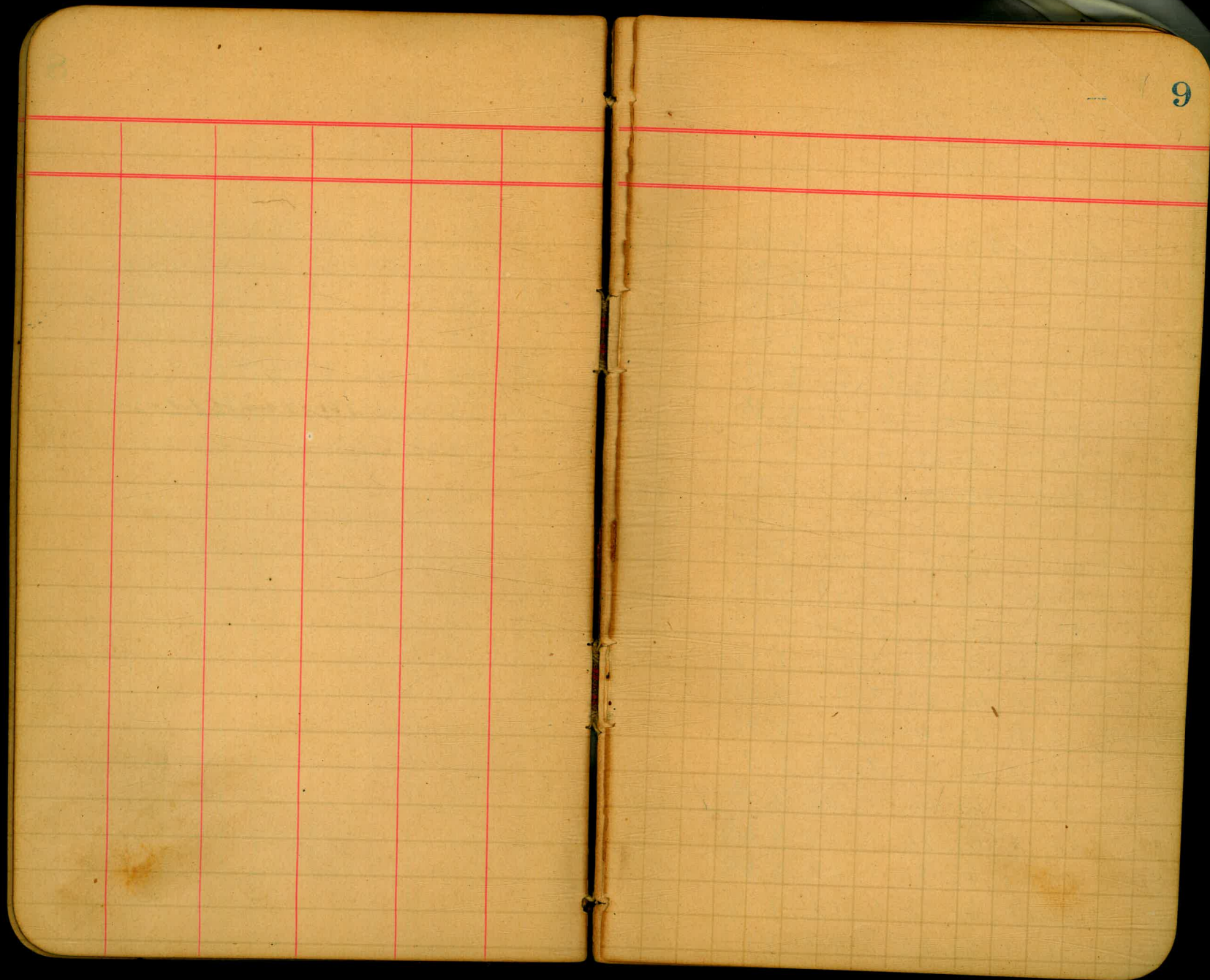
L. J. Day 206.50
 Day St
 N. L. Day St

5th St - N of Ast

Sta	Elev	Grade	Cut	F ⁱⁿ
75+15	224.70	219.25	5.45	5' 5 ³ / ₈ "
+40	226.35	220.50	5.85	5' 10 ¹ / ₂ "
+65	227.86	221.25	6.61	6' 6 ³ / ₈ "
+90	229.14	222.00	7.14	7' 1 ³ / ₄ "
76+15	230.29	222.75	7.54	7' 6 ¹ / ₂ "
+40	231.25	223.50	7.75	7' 9"
Total length of pipe				75+89

200.18

Flush tank 5th St -
at Jumper 76+35 end of 2nd Br 5-0



9

6th St - 10th St

Sta	Elev	Grade	cut-		
30+80	50.36	43.50	6.86	6' 10 $\frac{3}{4}$ "	
31	50.69	43.88	6.81	6' 9 $\frac{3}{4}$ "	
+20	50.84	44.25	6.59	6' 7 $\frac{1}{2}$ "	
+40	51.15	44.63	6.52	6' 6 $\frac{1}{4}$ "	
+60	51.48	45.00	6.48	6' 5 $\frac{3}{4}$ "	X
+85	51.92	45.21	6.71	6' 8 $\frac{1}{2}$ "	
32+10	52.15	45.42	6.76	6' 9 $\frac{1}{4}$ "	
+35	52.61	45.60	7.01	7' 0 $\frac{1}{8}$ "	
+60	52.90	45.86	7.04	7' 0 $\frac{1}{2}$ "	
+85	53.51	46.07	7.44	7' 5 $\frac{1}{4}$ "	
33+10	53.90	46.28	7.62	7' 7 $\frac{1}{2}$ "	
+35	53.97	46.50	7.47	7' 5 $\frac{5}{8}$ "	
+60	54.27	46.71	7.56	7' 6 $\frac{3}{4}$ "	
+85	54.63	46.92	7.71	7' 8 $\frac{1}{2}$ "	
34+10	54.91	47.14	7.77	7' 9 $\frac{1}{4}$ "	
+35	55.10	47.35	7.75	7' 9"	
+60	55.60	47.57	8.03	8' 0 $\frac{3}{4}$ "	
+80	56.15	47.94	8.41	8' 4 $\frac{3}{8}$ "	
35	56.40	47.91	8.49	8' 5 $\frac{3}{8}$ "	
+20	56.19	48.08	8.11	8' 1 $\frac{3}{8}$ "	
+40	56.23	48.25	7.98	7' 11 $\frac{3}{4}$ "	

1.783-7
10.0

X

8.562-6
10.0

S L M-

S L

N L M-

45.0

56.17
48.25
7.92

S C M-

C M-

N C M-

6th St. N of S

Sta	Elev	Grade	cm	
35+65	56.37	48.46	7.81	7' 9 ³ / ₄ "
+90	56.33	48.68	7.65	7' 7 ³ / ₈ "
36+15	56.51	48.89	7.62	7' 7 ¹ / ₂ "
+40	56.48	49.11	7.37	7' 4 ¹ / ₂ "
+65	56.62	49.32	7.20	7' 2 ³ / ₄ "
+90	56.62	49.59	7.09	7' 1 ¹ / ₂ "
37+15	56.74	49.74	6.99	6' 11 ³ / ₈ "
+40	56.89	49.96	6.99	6' 11 ¹ / ₂ "
+65	56.87	50.17	6.70	6' 8 ³ / ₄ "
+90	57.07	50.39	6.68	6' 8 ¹ / ₂ "
38+15	57.14	50.60	6.54	6' 6 ¹ / ₂ "
+40	57.37	50.82	6.55	6' 6 ³ / ₈ "
+60	57.42	50.99	6.43	6' 5 ¹ / ₂ "
+80	57.82	51.16	6.66	6' 7 ³ / ₈ "
39	58.16	51.33	6.83	6' 10"
+20	58.58	51.50	7.08	7' 1"
+45	60.01	53.29	6.72	6' 8 ³ / ₈ "
+70	61.45	55.08	6.37	6' 4 ¹ / ₂ "
+95	63.06	56.87	6.19	6' 2 ¹ / ₄ "
40+20	64.72	58.67	6.05	6' 0 ³ / ₈ "

0.85526
1.000

38+21. Reservoir 8506
S.S.B.

B.S.

N.S.B.S.

57.50

6th St - N of I

Sta	Elev	Grade	cut-	
40+45	66.49	60.46	6.03	6' 0 ³ / ₄
+70	68.37	62.25	6.06	6' 0 ³ / ₄
+95	70.13	64.04	6.09	6' 1 ¹ / ₄
41+20	72.08	65.83	6.25	6' 3"
+45	73.92	67.62	6.30	6' 3 ³ / ₄
+70	75.79	69.42	6.37	6' 4 ¹ / ₂
+95	77.36	71.21	6.15	6' 1 ³ / ₄
42+20	78.74	73.00	5.74	5' 8 ³ / ₄
+40	79.89	74.17	5.78	5' 9 ³ / ₄
+60	81.04	75.21	5.87	5' 10 ¹ / ₂
+80	82.02	76.32	5.70	5' 8 ³ / ₄
43	82.86	77.42	5.44	5' 5 ¹ / ₄
+25	83.83	78.80	5.03	5' 0 ³ / ₄
+50	84.83	80.18	4.65	4' 7 ³ / ₄
+75	85.91	81.56	4.35	4' 4 ¹ / ₄
44	87.15	82.95	4.20	4' 2 ³ / ₄
+25	88.61	84.33	4.28	4' 3 ³ / ₄
+50	89.85	85.71	4.14	4' 1 ³ / ₄
+75	91.39	87.09	4.30	4' 8 ³ / ₄
45	92.87	88.47	4.40	4' 4 ³ / ₄

7.667
cut

S. T. A. St

73.00

A St

N of A St

5.326
cut

6th St - W of L

Sta	Elev	Grade	em-	
45+25	94.33	89.85	4.48	4' 5 ³ / ₄ "
+50	95.78	91.24	4.54	4' 6 ¹ / ₂ "
+75	97.08	92.68	4.45	4' 5 ³ / ₈ "
46	98.26	94.00	4.26	4' 3 ¹ / ₈ "
+20	99.31	94.84	4.47	4' 5 ⁵ / ₈ "
+40	100.42	95.68	4.74	4' 8 ⁷ / ₈ "
+60	101.27	96.53	4.74	4' 8 ⁷ / ₈ "
+80	102.36	97.37	4.99	4' 11 ⁷ / ₈ "
47+06	103.42	98.42	5.00	5' 00"
+30	104.54	99.47	5.07	5' 0 ⁷ / ₈ "
+55	105.76	100.53	5.23	5' 2 ⁵ / ₈ "
+80	106.86	101.58	5.28	5' 3 ³ / ₈ "
48+05	107.84	102.63	5.21	5' 2 ³ / ₈ "
+30	108.76	103.68	5.08	5' 1"
+55	109.70	104.74	4.96	4' 11 ¹ / ₂ "
+80	110.75	105.79	4.99	4' 11 ⁷ / ₈ "
49+05	111.89	106.84	5.05	5' 0 ⁵ / ₈ "
+30	113.15	107.89	5.26	5' 3 ¹ / ₈ "
+55	114.26	108.95	5.31	5' 3 ³ / ₄ "
+80	115.13	110.00	5.13	5' 1 ⁵ / ₈ "

S L Ash

Ash

N L Ash

S L Road

110.00

6th St N of L

Sta	Elev	Grade	cut	
50	115.90	110.57	5.33	5' 4"
+20	116.34	111.13	5.25	5' 3"
+40	117.13	111.70	5.43	5' 5 1/4"
+60	117.44	112.26	5.18	5' 2 1/4"
+80	118.04	112.97	5.07	5' 0 3/8"
+51+10	118.99	113.67	5.32	5' 3 1/8"
+35	119.83	114.38	5.45	5' 5 3/4"
+60	120.63	115.09	5.54	5' 6 1/2"
+85	121.43	115.79	5.64	5' 7 5/8"
52+10	122.02	116.50	5.52	5' 6 1/4"
+85	122.74	117.21	5.57	5' 6 7/8"
+60	123.30	117.91	5.39	5' 4 1/4"
+85	123.74	118.62	5.12	5' 1 1/2"
58+10	124.70	119.33	5.37	5' 4 3/8"
+35	125.37	120.03	5.34	5' 4 1/8"
+60	125.87	120.74	5.13	5' 1 5/8"
+80	126.24	121.31	4.97	4' 11 3/8"
54	127.00	121.87	5.13	5' 1 5/8"
+20	127.41	122.44	4.97	4' 11 5/8"
+40	127.99	123.00	4.99	4' 11 7/8" x

201 : 128.7

Beck St

N2 Beck

S2 Cedar

Cedar St

N2 Cedar St

123.0

6th St - W of S

	Sta - Elev	Grade	em -		
8	54+65 128.83	124.08	4.75	4' 9"	
	+90 129.65	125.17	4.48	4' 5 ³ / ₄ "	
	55+15 130.81	126.25	4.56	4' 6 ³ / ₄ "	
	+40 131.66	127.33	4.33	4' 4"	
	+65 132.62	128.42	4.20	4' 2 ³ / ₄ "	
7	+90 133.73	129.50	4.23	4' 2 ³ / ₄ "	
8	56+15 134.94	130.58	4.36	4' 4 ³ / ₄ "	
	+40 136.16	131.67	4.49	4' 5 ¹ / ₈ "	
	+65 137.30	132.75	4.55	4' 6 ⁵ / ₈ "	
	+90 138.78	133.83	4.95	4' 11 ³ / ₄ "	
8	57+15 140.24	134.92	5.32	5' 3 ³ / ₄ "	
	+40 141.62	136.00	5.62	5' 7 ¹ / ₂ "	
	Total length of pipe 57+10				X

142.04

4.333
100

142.50'

Grade 142.50'

S. S. Note to Flush Tank 142.00

136.0

8th St. North of D.

Sta

See F.B. 647/37

31	55.52	48.78	6.74	6' 8 1/2"
31+20	66.42	49.14	7.28	7' 3 1/2"

D. St.

8th St North of D.

Sta	Elev	Grade	Cut.		
31	+50	56.19	49.50	6.69	6' 8 ¹ / ₄
	+60	56.11	49.71	6.40	6' 4 ³ / ₄
	+85	56.34	49.96	6.38	6' 4 ¹ / ₂
32	+10	56.94	50.22	6.76	6' 9 ¹ / ₄
	+35	57.56	50.47	7.09	7' 1 ¹ / ₈
	+60	58.21	50.73	7.48	7' 5 ¹ / ₄
	+85	58.54	50.99	7.55	7' 6 ³ / ₈
33	+10	59.29	51.24	8.05	8' 0 ⁷ / ₈
	+35	59.44	51.50	8.34	8' 4 ³ / ₈
	+60	60.67	51.76	8.91	8' 10 ¹ / ₈
	+85	61.32	52.01	9.31	9' 3 ³ / ₈
34	+10	62.04	52.27	9.77	9' 9 ¹ / ₄
	+35	62.72	52.53	10.19	10' 2 ¹ / ₄
	+60	63.09	52.78	10.31	10' 3 ³ / ₈
	+80	62.82	52.99	9.83	9' 10"
35		62.55	53.19	9.36	9' 4 ³ / ₈
	+20	62.16	53.40	8.76	8' 9 ¹ / ₈
	+40	61.24	53.60	7.64	7' 7 ⁵ / ₈
	+65	60.46	53.86	6.60	6' 7 ¹ / ₄
	+90	60.24	54.12	6.12	6' 1 ¹ / ₂
36	+15	60.24	54.37	5.88	5' 10 ⁵ / ₈

10/1950-0-1

N. Line D St.

S. Line C St.

C St.

N. Line C St.

8th St North of Q.

Sta	Elev	Grade	Out	
36+40	60.21	54.63	5.58	5'7"
+65	60.14	54.88	5.26	5'9 $\frac{1}{4}$ "
+90	60.29	55.14	5.15	5'19 $\frac{1}{4}$ "
37+15	60.42	55.40	5.02	5'0 $\frac{1}{4}$ "
+40	60.54	55.65	4.89	4'10 $\frac{3}{4}$ "
+65	60.72	55.91	4.81	4'9 $\frac{3}{4}$ "
+90	61.00	56.17	4.83	4'10"
38+15	61.29	56.42	4.87	4'10 $\frac{1}{2}$ "
+40	61.69	56.68	5.01	5'0 $\frac{1}{4}$ "
+60	61.89	56.88	5.01	5'0 $\frac{1}{4}$ "
+80	62.18	57.09	5.09	5'1 $\frac{1}{4}$ "
39		57.29		
39+20	62.36	57.50	4.86	4'10 $\frac{3}{4}$ "
+45	62.14	58.17	3.97	3'11 $\frac{1}{2}$ "
+70	62.48	58.83	3.65	3'7 $\frac{3}{4}$ "
+95	62.62	59.50	3.12	3'1 $\frac{1}{2}$ "
40+20	61.60	60.17	1.43	1'5 $\frac{1}{2}$ "
+45	62.27	60.83	1.44	1'5 $\frac{1}{4}$ "
+70	64.42	61.50	2.92	2'11"
+95	65.96	67.16	-1.20	-1'2 $\frac{1}{2}$ "
41+20	72.57	72.82	-0.25	-0.8"

S. Line B St

B St

N. Line B St

57.5

61.5

2666.100

220.641
700

8th St. North of D.

Sta	Elev	Grade	Cut	
41+45	79.70	78.48	1.22	1' 2 ³ / ₄
+70	88.23	84.14	4.09	4' 1 ¹ / ₈
+75	96.87	91.07	5.80	5' 9 ¹ / ₈
42+20	103.47	98.00	5.47	5' 5 ¹ / ₈
+40	105.17	98.25	6.92	6' 11"
+46	106.64	98.50	8.14	8' 1 ³ / ₄
+80	106.87	98.75	8.12	8' 1 ¹ / ₄
43	108.01	99.00	9.01	9' 0 ¹ / ₈
+25	112.24	102.33	9.91	9' 10 ¹ / ₈
+50	116.13	105.67	10.46	10' 5 ¹ / ₄
+75	120.68	109.00	11.68	11' 8 ¹ / ₄
44	123.88	112.83	11.55	11' 6 ³ / ₄
+20	128.23	118.67	12.56	12' 6 ³ / ₄
+50	131.50	119.00	12.50	12' 6"
+75	134.01	119.83	14.18	14' 1 ³ / ₄
45	135.27	120.67	14.60	14' 7 ¹ / ₄
+25	135.46	121.50	13.96	13' 11 ¹ / ₂
+50	135.62	122.33	13.29	13' 3 ¹ / ₂
+75	134.98	123.17	11.81	11' 9 ³ / ₄
46	131.89	124.00	7.89	7' 10 ³ / ₄
46+20	131.73	124.18	7.05	7' 0 ⁷ / ₈

X 2222
 100
 X 1-80
 13333
 100
 X
 83304
 100
 X

End of Pipe for the Present

S. Line W. St. Grade. 103.50 ✓
 Inup. 103.00
 W. St.

N. Line W. St. 10

S. Line W. St. Grade 132.00 ✓
 131.50

of the St. No. 2.

Sta	Elev.	Grade	cut-
46+40	132.27	124.36	7.91 7' 10 3/4
+60	131.43	124.54	6.89 6' 10 3/4
+80	133.50	124.71	8.79 8' 9 1/2
47+05	133.85	124.94	8.91 8' 10 3/4
+30	132.41	125.16	7.25 7' 3
+55	129.77	125.38	4.39 4' 4 3/4
+80	128.45	125.61	2.84 2' 10 1/2
48+05	127.62	125.83	1.79 1' 9 1/2
+30	127.30	126.05	1.25 1' 3
+55	127.14	126.28	0.86 0' 10 1/2
+80	127.99	126.50	1.49 1' 5 1/2
49+05	128.70	127.54	1.16 1' 2
+30	130.77	128.58	2.19 2' 2 1/2
+55	133.37	129.62	3.75 3' 9
+80	137.07	130.67	6.40 6' 4 1/2
50	137.45	131.50	5.95 5' 11 1/2
+20	139.10	132.33	6.77 6' 9 1/2
+40	138.95	133.17	5.78 5' 9 1/2
+60	140.15	134.00	6.15 6' 1 1/2
+84	142.16	135.42	6.74 6' 8 1/2

89285
100

41.1666
100

Center of Ash & Ash St
N. Ash N. L. Ash St.

138.72

St. Buck Grade 137.50 ✓
137.00

Buck St

N. L. Buck

8th St - 1st of L.

Sta	Elev	Grade	cut-	
51+10	142.89	136.83	6.06	6' 0 3/4
+35	145.15	138.25	6.90	6' 10 3/4
+60	146.40	139.67	6.73	6' 8 3/4
+85	148.37	141.08	7.29	7' 3 1/2
52+10	149.77	142.50	7.27	7' 3 1/4
+35	150.90	143.92	7.07	7' 0 3/8
+60	153.60	145.33	8.27	8' 3 1/4
+85	156.00	146.75	9.25	9' 3
53+10	156.72	148.17	8.57	8' 6 1/8
+35	157.03	149.58	7.45	7' 5 3/4
+60	158.53	151.00	7.56	7' 6 3/4
+80	159.09	151.26	7.84	7' 10 1/8
54	159.11	151.50	7.61	7' 7 3/8
+20	159.02	151.75	7.27	7' 3 1/4
+40	158.07	152.00	6.07	6' 0 7/8
+65	158.58	152.65	5.93	5' 11 1/8
+90	158.86	153.30	5.56	5' 6 3/4
55+15	159.61	153.95	5.66	5' 8
+40	160.32	154.60	5.72	5' 8 1/8
+65	161.10	155.25	5.93	5' 11 1/8

999.99
 6.666
 1.111

x
 0.8
 1.1
 x

24

L. L. Cedar St - 158.50 ✓

Cedar St

N. L. Cedar

8th 11-11-12

Sta	Elev	Grade	cur-
55+90	161.89	155.90	5.995 11/8
56+15	162.35	156.55	5.805 9/8
+40	163.53	157.20	6.336 4
+62	164.00	157.85	6.216 2 1/2
+90	164.81	158.50	5.515 6/8
57+15	163.79	160.50	3.793 3 1/2
Total length of pipe 64+35 x			

2.600
1.800

Flush Tank 165.00 ✓
 S. base of Date / Flush tank 165.5

9th St. North of D.

Sta	Elev	Grade	ent	cut
31	61.32	54.71	6.61	6' 7 ³ / ₄
+20	61.26	55.00	6.26	6' 3 ¹ / ₄ x
+40	60.84	55.24	5.60	5' 7 ¹ / ₄
+60	61.02	55.47	5.55	5' 6 ⁵ / ₄
+85	61.30	55.77	5.53	5' 6 ³ / ₄
32+10	61.71	56.07	5.64	5' 7 ¹ / ₄
+35	62.15	56.36	5.79	5' 9 ¹ / ₂
+60	62.32	56.66	5.66	5' 7 ¹ / ₄
+85	62.75	56.95	5.80	5' 9 ⁵ / ₄
33+10	63.03	57.25	5.78	5' 9 ³ / ₄
+35	63.37	57.55	5.82	5' 9 ¹ / ₄
+60	63.74	57.84	5.90	5' 10 ³ / ₄
+85	64.26	58.14	6.12	6' 1 ¹ / ₂
34+10	64.52	58.43	6.09	6' 1 ¹ / ₄
+35	64.89	58.73	6.16	6' 1 ⁷ / ₄
+60	65.54	59.03	6.51	6' 6 ¹ / ₄
+80	65.83	59.26	6.57	6' 6 ¹ / ₈
35	66.18	59.50	6.68	6' 8 ¹ / ₈ x
+20	66.48	59.59	6.89	6' 10 ³ / ₄
+40	66.54	59.69	6.85	6' 10 ¹ / ₄

1.842
100

D. St.

55.0

N. Line D. St.

S. Line D. St.

C. St.

59.60

N. Line C. St.

9th St. North of Q.

Sta					
35+65	66.83	59.81	7.02	7'0 1/4	
+190	67.08	59.93	7.15	7'1 3/4	
36+15	67.21	60.05	7.16	7'1 7/8	
+140	67.32	60.17	7.15	7'1 3/4	
+65	67.37	60.29	7.02	7'0 1/4	
+90	67.35	60.41	6.94	6'11 1/4	
37+15	67.66	60.52	7.14	7'1 3/8	
+140	67.60	60.64	6.96	6'11 3/8	
+65	67.70	60.76	6.94	6'11 1/4	
+90	67.36	60.88	6.68	6'8 1/8	
38+15	67.33	61.00	6.53	6'6 3/8	
+140	67.64	61.12	6.52	6'6 1/4	
+60	67.70	61.21	6.49	6'5 7/8	
+80	67.88	61.31	6.57	6'6 7/8	
39	68.11	61.40	6.71	6'8 1/2	
+20	68.25	61.50	6.75	6'9"	
+45	68.88	62.21	6.67	6'8	
+70	69.29	62.93	6.36	6'4 3/8	
+75	69.68	63.64	6.04	6'0 1/2	
40+20	70.69	64.36	6.33	6'4	

#80108*

4762
1120

1133

41
69
12

93
81
12
50.85
59.93
12

12
4
4

9.5
51
475

S. Dune B. St.

B. St.

S. Lane B. St.

61.30

64.26
63.64
72

9th St. North of D.

8.8
6.5
1.3

78.47
66.50
9.58

Sta				
40+15	71.12	65.07	6.05	6' 0 3/4
+70	71.81	63.79	6.02	6' 0 1/4
+100	72.49	66.50	5.99	5' 11 1/8 x
+130	73.57	68.89	4.68	4' 8 1/4
+160	76.10	71.29	4.81	4' 9 3/4
+190	78.67	73.68	4.99	4' 10 1/4
+225	81.18	76.08	5.10	5' 1 1/4
+260	83.23	78.47	4.76	4' 9 1/4
+300	84.56	79.60	4.96	4' 11 1/2
+340	86.07	80.74	5.33	5' 4"
+380	86.94	81.87	5.07	5' 0 1/4
+420	88.05	83.10	5.05	5' 0 5/8 x
+465	90.02	85.16	4.86	4' 10 3/4
+510	91.90	87.33	4.57	4' 6 1/4
+555	94.07	89.50	4.57	4' 6 1/4
+600	96.45	91.67	4.78	4' 9 3/4
+650	98.78	93.83	4.95	4' 11 1/4
+700	100.75	96.00	4.75	4' 9
+750	101.48	96.56	4.92	4' 11
+800	102.54	97.12	5.32	5' 3 1/4
+850	103.69	97.67	6.02	6' 0 1/4

66.50

Bottom of a St. 78.47

a St.

N End a St. 83.0

96.0

9th St North of D.

Sta					
3	45-50	104.06	98.24	5.82	5' 9 1/8"
	45	104.64	98.79	5.85	5' 10 1/4"
	46	105.23	99.36	5.87	5' 10 1/2"
	420	105.84	99.80	6.04	6' 4 1/2"
	440	106.39	100.25	6.14	6' 1 3/4"
	460	106.55	100.70	5.85	5' 10 1/4"
	480	106.33	101.14	5.19	5' 2 1/4"
	47-50	106.91	101.70	5.21	5' 2 1/2"
	430	107.63	102.26	5.37	5' 4 1/2"
	455	108.24	102.82	5.42	5' 5"
	480	109.61	103.38	5.23	5' 2 3/4"
	49-50	109.08	103.94	5.14	5' 1 3/4"
	430	109.83	104.50	5.33	5' 4"
	455	110.80	105.86	4.94	4' 11 1/4"
	480	112.01	107.22	4.79	4' 9 1/2"
	47-50	113.23	108.58	4.65	4' 7 3/4"
	430	114.61	109.93	4.68	4' 8 1/4"
	455	116.38	111.29	5.09	5' 1 1/8"
	480	117.87	112.65	5.22	5' 2 5/8"
	50	118.94	113.74	5.20	5' 2 3/8"
	420	119.80	114.82	5.08	5' 1"

2.237
100

x

3.73
100

S. Line of Oak St.
Oak St.
N. Line of Oak St.

104.6

S. Line of Beach St.
Beach St.

7th St. North of D. St.

Sta	Elev	Grade	Cut	
50+40	120.36	115.91	4.45	4' 5 ³ / ₄
+60	121.82	117.00	4.82	4' 9 ¹ / ₈ x
+55	123.67	119.21	4.46	4' 5 ¹ / ₂
51+10	125.88	121.42	4.46	4' 5 ¹ / ₂
+35	127.94	123.62	4.32	4' 8 ⁷ / ₈
+60	130.37	126.83	4.54	4' 6 ¹ / ₂
+85	132.57	128.04	4.53	4' 6 ³ / ₈
52+10	134.79	130.23	4.54	4' 6 ¹ / ₂
+35	137.16	132.46	4.70	4' 8 ³ / ₈
+60	139.30	134.67	4.73	4' 8 ³ / ₄
+85	141.87	136.87	5.00	5' 00
53+10	144.33	139.08	5.25	5' 3
+35	146.62	141.29	5.33	5' 4
+60	148.88	143.50	5.38	5' 4 ³ / ₄ x
+80	149.81	143.74	6.07	6' 0 ⁷ / ₈
54	150.42	143.97	6.45	6' 5 ⁷ / ₈
+20	150.86	144.21	6.65	6' 7 ³ / ₄
+40	151.01	144.45	6.56	6' 6 ³ / ₄
+65	151.28	144.74	6.54	6' 6 ¹ / ₂
+90	151.56	145.04	6.52	6' 6 ¹ / ₄

51.8803
100

110420.100

Middle Beech St. 117.0

S. Line Cedar St. 143.50

Cedar St

N. Line Cedar St.

9th St. North of D. St.

Sta	Elv	Grade	cut	inches
55+15	151.77	145.34	6.43	6' 5/8"
+40	152.12	145.63	6.49	6' 5/8"
+65	152.54	145.93	6.61	6' 7/8"
+90	152.91	146.22	6.59	6' 7/8"
56+15	153.24	146.52	6.76	6' 9/8"
+40	153.24	146.82	6.42	6' 5"
+65	153.48	147.11	6.37	6' 4 1/2"
+90	153.72	147.41	6.31	6' 3 3/4"
57+15	154.01	147.70	6.31	6' 3 3/4" x
+40	148.00			
Total length of pipe at of				
S. St.				38 + 56

11042.110

L. Lush tank

153.20 ✓

153.70

S. Line of gate at

8th 81-rod, Sta 41+70

30

28

41+70

41+14

5th St N of Juniper St

31

Sta	Ch	Grade	Lev		
76+40	231.15	223.50	7.65	7	7 7/8"
+60	231.66	224.05	7.61	7	7 3/8"
+80	232.17	224.61	7.56	7	6 3/4"
77+0	232.66	225.16	7.50	7	6"
+20	233.09	225.71	7.38	7	4 5/8"
+45	233.62	226.40	7.22	7	2 5/8"
+70	234.00	227.09	6.91	6	11"
+95	234.48	227.78	6.70	6	8 3/8"
78+20	234.75	228.47	6.28	6	3 3/8"
+45	235.14	229.16	5.98	5	11 3/4"
+70	235.83	229.85	5.98	5	11 3/4"
+95	236.63	230.54	6.09	6	1 1/8"
79+20	237.44	231.23	6.21	6	2 1/2"
+45	238.19	231.92	6.27	6	6 3/4"
+70	239.41	232.62	6.79	6	9 1/2"
+95	240.51	233.31	7.20	7	2 3/8"
80+20	241.50	234.00	7.50	7	6"

230.88
 5.97
 236.85
 228.00
 8.85

E line of Juniper St 228.00 ✓

Juniper St

N line of Juniper St

242.00
 5.15
 247.20
 240.00
 7.20

E line of Kalmia 240.00 ✓

5th St N of Juniper St

Sta	Elv	Grade	Dist		
+40	242.18	234.47	7.71	7	8 1/2"
+60	242.54	234.95	7.63	7	7 3/8" ✓
+80	243.04	235.42	7.62	7	7 1/2" ✓
81+0	243.45	235.89	7.56	7	6 3/4" ✓
+25	244.00	236.48	7.52	7	6 1/4"
+50	244.72	237.08	7.64	7	7 3/4"
+75	245.24	237.67	7.61	7	7 3/4"
82+0	245.96	238.26	7.70	7	8 3/4" ✓
+25	246.63	238.85	7.74	7	9 3/4"
+50	247.02	239.44	7.54	7	7'
+75	247.51	240.04	7.47	7	6 3/4" ✓
83+0	248.01	240.63	7.38	7	4 5/4" ✓
+25	248.36	241.22	7.14	7	1 3/4"
+50	248.88	241.81	7.07	7	0 7/8"
+75	249.60	242.41	7.19	7	2 1/4"
84+0	250.16	243.00	7.15	7	1 3/4" ✓
+20	250.54	243.42	7.16	7	1 7/8"
+40	250.98	243.84	7.14	7	1 3/4"
+60	251.40	244.26	7.14	7	1 5/4"
+80	251.71	244.68	7.03	7	0 3/4"

25 - 0.592 - 25
 4475 - 20

537
 494
 163
 32

Kalmia St

N line of Kalmia

4.57 <u>249.67</u> 254.24 <u>249.50</u> 4.74	249.67 4.77 <u>254.44</u> <u>249.50</u> 4.94
--	--

250.15
249.85
 249.9

S line of Laurel St 249.50 ✓

Laurel St

N line of Laurel St

5th St N of Juniper St

3
1.21
1.05

Sta	Elev	Grade	cut
85+05	252.18	245.21	6.97 6 11/8
+30	252.88	245.74	7.14 7 1 3/4
+55	253.65	246.26	7.39 7 4 3/4
+80	254.26	246.79	7.47 7 5 5/8
86+05	254.54	247.32	7.22 7 2 5/8
✓+30	255.00	247.84	7.16 7 1 7/8
✓+55	255.56	248.37	7.19 7 2 1/4
+80	255.99	248.89	7.10 7 1 1/4
87+05	256.44	249.42	7.02 7 0 1/4
+30	256.79	249.95	6.84 6 10 1/8
+55	257.20	250.47	6.73 6 8 3/4
+80	257.69	251.00	6.69 6 8 1/4 x
88+0	257.81	251.36	6.45 6 5 3/8
+20	257.99	251.71	6.28 6 3 1/2
+40	258.22	252.07	6.15 6 1 7/8
+60	258.17	252.44	5.73 5 8 3/4
+85	258.87	252.88	5.99 5 11 1/8
89+10	259.39	253.33	6.06 6 3/4
+35	259.61	253.77	5.84 5 10 1/8
+60	260.01	254.21	5.80 5 9 5/8

4.69
258.45
263.14
257.75
5.39

4.26
258.45
262.71
258.02
4.71

S Line of Maple St 258.00 st grade
Maple St
N Line of Maple St

5th St N of Juniper St.

34

Sta	Elv	Grade	Cont.		
+85	260.44	254.66	5.82	5	9 7/8
90+10	260.99	255.10	5.89	5	10 3/4
+35	261.30	255.55	5.75	5	9
+60	261.67	255.99	5.68	5	8 1/8
+85	262.12	256.43	5.69	5	8 1/4
91+10	262.55	256.88	5.67	5	8
+35	263.06	257.31	5.75	5	9
+60	263.66	257.75	5.91	5	10 7/8
+80	264.07	258.11	5.96	5	10 1/2
92+0	264.61	258.46	6.15	6	1 3/4
+20	264.99	258.82	6.17	6	2
+40	265.44	259.17	6.27	6	3 1/4
+65	266.20	259.61	6.59	6	7 1/8
+90	266.64	260.06	6.52	6	7 1/2
93+15	267.18	260.50	6.68	6	8 1/4
+40	267.82	260.95	6.87	6	10 1/2
+65	268.50	261.39	7.11	7	1 3/8
+90	268.84	261.83	7.01	7	1/4
94+15	269.27	262.28	6.99	6	11 7/8
+40	269.77	262.72	7.05	7	0 5/8

263.96	5.55
5.48	260.96
269.44	269.51
262.75	263.25
6.69	6.26

S Side of Nutmeg 265.25

Nutmeg St.

N Side of Nutmeg

For grades see Book 662/26

5th St North of Sumner

Sta	Elev	Grade	cut
+65	270.20	263.17	7.03 7 0 3/4
+90	270.70	263.61	7.09 7 1/4
95+15	271.02	264.05	6.97 6 11 5/8
+40	271.27	264.50	6.77 6 9 1/4 ✓ x
+60	271.36	264.76	6.60 6 7 1/4 ✓
+80	271.51	265.03	6.44 6 5 3/4 ✓
96+0	271.51	265.29	6.22 6 2 5/8 ✓
+20	271.64	265.53	6.09 6 1 1/4 ✓
+45	271.92	265.88	6.04 6 0 1/2 ✓
+70	272.32	266.21	6.11 6 1 3/8 ✓
+95	272.53	266.54	5.99 5 11 7/8 ✓
97+20	272.68	266.87	5.81 5 9 3/4 ✓
+45	273.10	267.20	5.90 5 10 3/4 ✓
+70	273.52	267.52	6.00 6 0 ✓
+95	274.11	267.85	6.26 6 3 1/8 ✓
98+20	274.54	268.18	6.36 6 4 3/8 ✓
+45	275.01	268.51	6.50 6 6 -
+70	275.37	268.84	6.53 6 6 3/8 ✓
+95	275.73	269.17	6.56 6 6 3/4 ✓
99+20	276.01	269.50	6.51 6 6 1/8 x

275.77
4.54
271.23

263.17
11.80
275.80
4.54
271.26

271.20
4.57
275.77
271.00
4.77

275.80
4.57
271.23

275.80
2.71
4.80

S Line of Olive St 271.00 D.C.
6.80

Olive St

251.11
5.02
276.02

N Line of Olive St

275.75
269.20
6.20

3.87
272.24
281.11
275.75
6.36

S Line of Palm St 275.75 D.C.

5th St North of Juniper

Sta	Elw	Grade	cut
+40	276.33	269.61	6.72 6 8 5/8 ✓
+60	276.55	269.71	6.84 6 10 1/8 ✓
+80	276.71	269.81	6.90 6 10 3/4 ✓
100+0	277.05	269.92	7.13 7 1 5/8 ✓
+25	277.20	270.05	7.15 7 1 3/4 ✓
+50	277.46	270.18	7.28 7 3 3/4 ✓
+75	277.57	270.31	7.26 7 3 1/8 ✓
101+0	277.91	270.45	7.46 7 5 1/2 ✓
+25	278.00	270.58	7.42 7 5 ✓
+50	278.39	270.71	7.68 7 8 4/8 ✓
+75	278.69	270.84	7.85 7 10 1/4 ✓
102+0	278.81	270.97	7.84 7 10 1/8 ✓
+25	279.05	271.10	7.95 7 11 3/8 ✓
+50	279.29	271.24	8.05 8 0 5/8 ✓
+75	279.36	271.37	7.99 7 11 7/8 ✓
103+0	279.73	271.50	8.23 8 2 7/8 x
+20	279.90	271.75	8.15 8 1 3/4 ✓
+40	279.78	272.00	7.74 7 9 3/8 ✓
+60	280.32	272.25	8.07 8 7/8 ✓
+80	280.27	274.00	6.27 6 3 1/4 x
	2.7250		

Palms St

N line of Palms St

3 59
2 06
2 53

278.30
271.30
7.00

279.46
4.10
283.56
278.50
5.06

S line of Juniper St 278.50

Juniper St

N line of Juniper St 278.50 st. grade

Blw for 5th St sewer North
copied from Survey book

Nov 14, 1889

of Juniper Hamlin

City 35
Willis 37

Pensacola

Sta	+	HO	-	Blw
B In	10.01	240.89		230.88
76+40			9.74	231.15
+60			9.23	231.66
+80			8.72	232.17
77+0			8.23	232.66
+20			7.80	233.09
+45			7.27	233.62
+70			6.89	234.00
+95			6.41	234.48
78+20			6.14	234.75
+45			5.75	235.14
+70			5.06	235.80
+95			4.26	236.63
79+20			3.45	237.44
+45			2.40	238.49
+70			1.48	239.41
+95#	6.23	246.74	0.38	240.51
80+20			5.24	241.50
+40			4.56	242.18
+60			4.16	242.58
B In			4.69	242.05

Juniper & 5th
S. line of Juniper St

Juniper St

North line of Juniper St

South line of Kalmia St

Kalmia St.

Kalmia & 5th

Elv for 5th st sewer North of Juniper St

Sta	+	HO	-	Elv
Bm	8.61	250.66		242.05
80+60			8.08	242.58
+80			7.62	243.04
81+0	PL		7.21	243.45
+25			6.66	244.00
+50			5.94	244.72
+75			5.38	245.24
82			4.70	245.96
+25			4.00	246.63
+50			3.64	247.02
+75			3.15	247.51
83			2.65	248.01
+25			2.30	248.36
+50			1.78	248.88
+75			1.06	249.60
84+0			0.51	250.15
Bm #9.54	9.54	259.21	0.99	249.67
+20			8.63	250.58
+46			8.23	250.98
+60			7.81	251.40
			7.50	

Kalmia & 5th
Kal

North line of Kalmia St

South line of Laurel St
5th & Laurel

Laurel St

Blw for 5th St sewer N

Sta	+	HO	-	Blw
		259.21		
+80			7.50	257.71
85+05			7.00	252.18
+30			6.33	252.88
+55			5.56	253.65
+80			4.95	254.26
86+05			4.67	254.24
+30			4.21	255.00
+55			3.65	255.56
+80			3.22	255.99
87+05			2.77	256.44
+55			2.42	256.79
+80			2.01	257.20
88+0			1.52	257.69
BM			1.40	257.81
+20			0.77	258.44
+40 #	8.33	266.32	1.22	257.99
+60			8.10	258.22
+85			7.82	258.50
89+10			7.45	258.87
+35			6.93	259.39
+60			6.71	259.61

of Juniper St

39

North line of Laurel.

South line of Maple St

3rd Maple
center of Maple St

North line of Maple St

Elv. for 5th St sewer

Sta	+	H ₂ O	-	Elv
		266.32		
+85			6.31	260.01
90+10			5.84	260.48
+35			5.33	260.99
+60			5.02	261.30
+85			4.65	261.67
91+10			4.20	262.12
+35			3.77	262.55
+60			3.26	263.06
+80			2.66	263.66
Bm			2.37	263.95
Bm	9.91	273.97		263.96
91+60	7.9		10.20	263.67 ✓
+80			9.80	264.07 ✓
92+0			9.26	264.61 ✓
+20			8.98	264.99 ✓
+40			8.43	265.44 ✓
+65			7.67	266.20 ✓
+90			7.19	266.68 ✓
93+15			6.69	267.18 ✓
+40			6.05	267.82

North of Juniper St 4

South Side of Nutmeg St

5th & Nutmeg
5th & Nutmeg
South of Nutmeg

Elev on 5th St sewer

Dec 11 1889

Hamlin

Orton
William
Hemsted
41

Sta	+	H.D.	-	Elev
93+65		273.87	5.37	268.50 ✓
+90			5.08	268.84 ✓
94+15			4.60	269.27 ✓
+40			4.10	269.77 ✓
+65			3.67	270.20 ✓
+90			3.17	270.70 ✓
95+15			2.85	271.02 ✓
+40			2.60	271.27 ✓
Bm	6.46	277.68	2.66	271.21 271.20
+60			6.32	271.36 ✓
+80			6.17	271.51 ✓
96			6.17	271.51 ✓
+20			6.04	271.64 ✓
+45			5.76	271.92 ✓
+70			5.36	272.32 ✓
+95			5.15	272.53 ✓
97+20			5.00	272.68 ✓
+45			4.58	273.10 ✓
+70			4.16	273.52 ✓
+95			3.57	274.11 ✓

250

3 line of Olive St
5th & Olive

Olive St

4 line of Olive St

ON
Elev for 5th St sewer

42

Sta	+	H ₀	-	Elev	
98+20		277.68	3.14	274.54	✓
+45			2.67	275.01	✓
+70			2.31	275.37	✓
+95			1.95	275.73	✓
99+20			1.67	276.01	✓
B 97#	5.35	282.79	1.45	277.23	277.24
+40			6.46	276.33	✓
+60			6.24	276.55	✓
+80			6.04	276.71	✓
100			5.74	277.05	✓
+25			5.59	277.20	✓
+50			5.33	277.46	✓
+75			5.22	277.57	✓
101			4.94	277.91	✓
+25			4.79	278.00	✓
+50			4.40	278.39	✓
+75			4.10	278.69	✓
102			3.98	278.81	✓
+25			3.74	279.05	✓
+50			3.50	279.29	✓
A			-		

S line of Palm St
5th & Palm St

Palm St

N line of Palm St

Sta	+	HO	-	Elev
+75		282.79	3.43	279.36 ✓
103			3.06	279.73
BQ	4.52	283.97	3.34	279.45
103			4.24	279.73 ✓
+20			4.07	279.90 ✓
+40			4.19	279.78 ✓
+60			3.65	280.32 ✓
+80			3.70	280.27 ✓

S Line of Quince St

Quince St

277.50
450
273.00

Check levels on 5th St
bet Laurel & Maple

Sta	+	HO	-	Elev
Bm	10.15	259.82		249.67
86+55			4.28	255.54 ✓
+40			3.84	255.98 ✓
			3.39	256.42 ✓
			3.03	256.79 ✓
			2.60	257.22 ✓
			2.13	257.69

258.4

252.4

4.0

44

252.4

252.4

150) 4.00

200

1000

1000

150

102.66

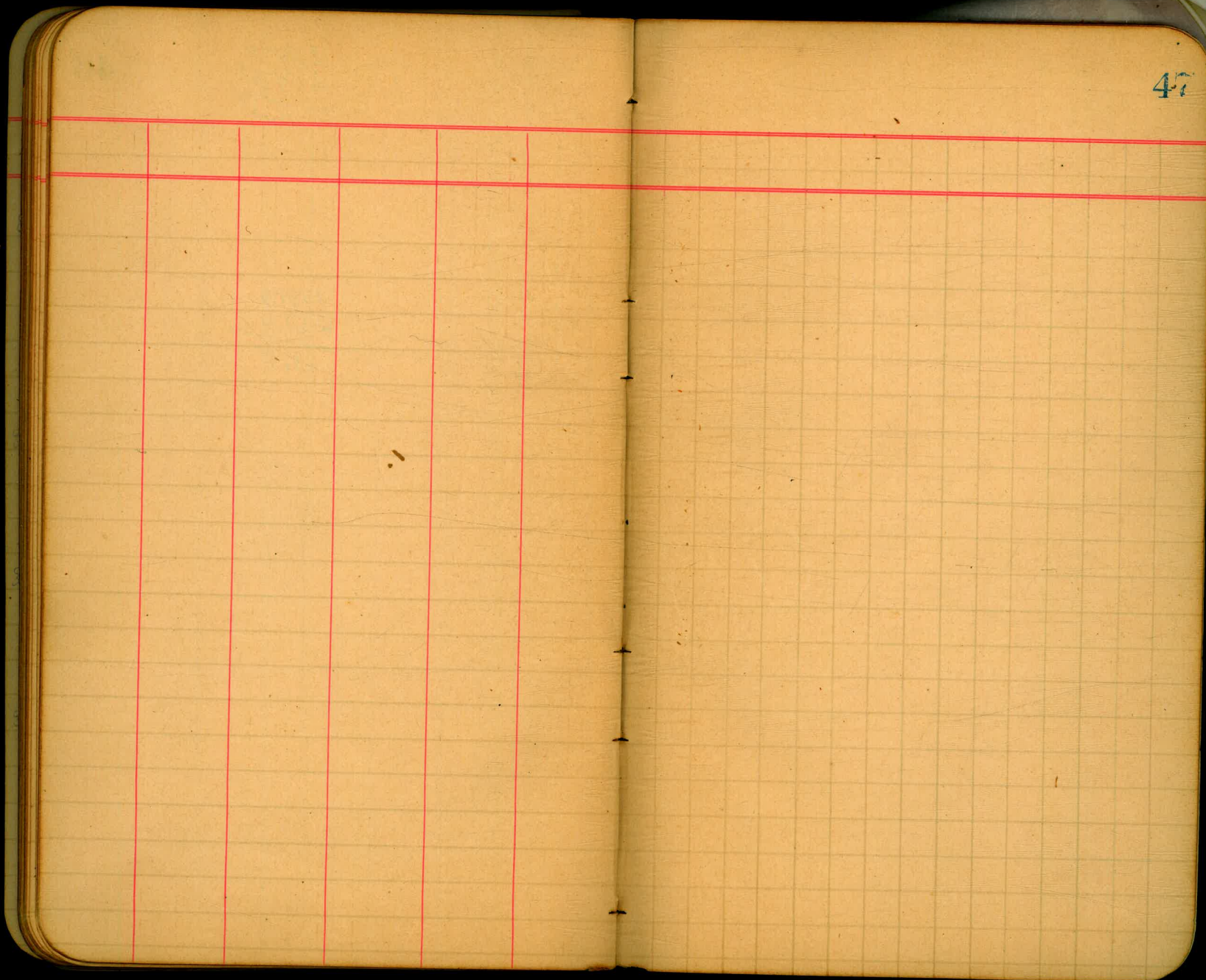
266

$$\begin{array}{r} 2580 \\ 254,5 \\ \hline 3,5 \end{array}$$

46

$$\begin{array}{r} 25579 \\ 23214 \\ \hline 3,5 \end{array}$$

47



~~258.45
4.71
263.15
4.74
258.41~~

~~263.15
4.98
258.17~~

263.15
4.75
259.40
263.16
3.52
259.64

263.15
3.13
263.02

263.15
4.27
258.88

93.37
6.54
86.79

93

3

33

3

3 3 3 3

cut 33

cut

cut

6.16
5.92

cut

cut

cut cut

76+90
3.80

40+80
3.80

84.00

76.46

2.60

89.06

84.00

3.80

89.80

3.80

91+60
3.80

95+40
3.80

99+20
3.80

103+00

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

Degrees.	DEGREES.		¼ DEGREE.		¼ DEGREE.		¼ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.81	85
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	84
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	83
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	82
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	81
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	80
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	79
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	78
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	77
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	76
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	75
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	74
12	97.81	20.79	97.72	21.22	97.65	21.64	97.53	22.07	73
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	72
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	71
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	70
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.52	69
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	68
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	67
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	66
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	65
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	64
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	63
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	62
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	61
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	60
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	59
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	58
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	57
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	56
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	55
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	54
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	53
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	52
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	51
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	50
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	49
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	48
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	47
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	46
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	45
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	44
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	43
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	42
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	41
45	70.71	70.71							40
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¼ DEGREE.		¼ DEGREE.		¼ DEGREE.		

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