

SEWERAGE

GRADES

5TH 6TH 7TH 8TH 9TH STREETS

FIELD BOOK

9

TRANSIT.

F.B. 647

647

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	81
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	81
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	81
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	81
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	81
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	81
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	81
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	81
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	71
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	71
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	71
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	71
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	71
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	71
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	71
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	71
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	61
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	61
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	61
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	61
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	61
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	61
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	61
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	50.8	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							

MICROFILMED

Street	Page	Location
5 th	1 - 7	5 th N of K St
6 th	11 - 16	6 th N of K
7 th	20 - 30	7 th N of L
7 th	27 - 36	7 th N of K
8 th	31 - 37	8 th N of L
9 th	41 - 47	9 th N of L
10 th	- 51	Curve Main Line

N 6

1 5th St N of K
Sta Elev Grad Cur-

0	5.27	-0.25	5.52	5' 6 $\frac{1}{4}$ "
14	5.43	-0.01	5.44	5' 5 $\frac{1}{4}$ "
24	5.61	+0.16	5.45	5' 5 $\frac{3}{8}$ "
34	5.84	+0.33	5.57	5' 6 $\frac{1}{4}$ "
44=1	5.88	0.50	5.38	5' 4 $\frac{5}{16}$ "

1	6.64	0.50	5.14	5' 1 $\frac{1}{2}$ "
+24	5.91	0.76	5.15	5' 1 $\frac{3}{4}$ "
+50	6.28	1.02	5.26	5' 3 $\frac{1}{4}$ "
+74	6.50	1.28	5.22	5' 2 $\frac{5}{8}$ "
2	6.79	1.54	5.25	5' 3"
+24	7.03	1.80	5.23	5' 2 $\frac{3}{4}$ "
+50	7.46	2.06	5.40	5' 4 $\frac{3}{4}$ "
+74	7.61	2.32	5.29	5' 3 $\frac{1}{2}$ "
3	8.03	2.58	5.45	5' 5 $\frac{3}{8}$ "
+24	8.39	2.84	5.55	5' 6 $\frac{1}{8}$ "
+50	8.63	3.10	5.53	5' 6 $\frac{3}{8}$ "
+74	8.87	3.36	5.51	5' 6 $\frac{1}{8}$ "
4	9.06	3.62	5.44	5' 5 $\frac{1}{4}$ "
+20	9.19	3.83	5.36	5' 3 $\frac{3}{8}$ "

PC

N2 K PT

N2 K

1.0410

2

5th & No. 10 R

2

Sta	Elm	Grad	Cur		
4+40	9.63	4.04	5.59	5' 7 $\frac{1}{2}$ "	TSI
+60	9.45	4.25	5.60	5' 7 $\frac{1}{4}$ "	
+80	10.27	4.46	5.81	5' 9 $\frac{1}{2}$ "	TSI
5+05	10.66	4.72	5.94	5' 11 $\frac{1}{2}$ "	
+30	10.91	4.98	5.93	5' 11 $\frac{1}{2}$ "	
+85	11.25	5.24	6.01	6' 0 $\frac{1}{2}$ "	
+80	11.76	5.50	6.26	6' 3 $\frac{1}{8}$ "	
6+05	12.10	5.76	6.34	6' 4 $\frac{1}{2}$ "	
+80	12.50	6.02	6.48	6' 5 $\frac{3}{8}$ "	
+55	12.87	6.28	6.59	6' 7 $\frac{1}{2}$ "	
+80	13.21	6.54	6.67	6' 8"	
7+05	13.45	6.80	6.65	6' 7 $\frac{3}{4}$ "	
+90	13.99	7.06	6.99	6' 11 $\frac{1}{4}$ "	
+55	14.39	7.32	7.07	7' 0 $\frac{1}{2}$ "	
+80	14.88	7.58	7.30	7' 3 $\frac{5}{8}$ "	TSI
8	15.24	7.79	7.45	7' 5 $\frac{3}{8}$ "	
+20	14.57	8.00	7.57	7' 6 $\frac{3}{8}$ "	TSI
+10	15.76	8.33	7.43	7' 5 $\frac{1}{4}$ "	
+60	15.92	8.66	7.26	7' 3 $\frac{1}{2}$ "	TSI
+85	16.14	9.08	7.06	7' 0 $\frac{3}{4}$ "	
9+10	16.54	9.49	7.05	7' 0 $\frac{1}{2}$ "	

5-14 Si-Nok K

Sta	Elm	Sad	CW-	
9+35	16.91	9.91	7.07	7' 0"
+60	17.39	10.32	7.07	7' 0 $\frac{1}{8}$ "
+85	17.75	10.74	7.01	7' 0 $\frac{1}{8}$ "
10+10	18.02	11.15	6.87	6' 10 $\frac{3}{4}$ "
+35	18.33	11.56	6.77	6' 9 $\frac{1}{2}$ "
+60	18.99	11.98	7.01	7' 0 $\frac{1}{8}$ "
+85	19.17	12.39	6.78	6' 9 $\frac{3}{4}$ "
11+10	19.75	12.81	6.94	6' 10 $\frac{1}{4}$ "
+35	20.16	13.22	6.94	6' 10 $\frac{1}{4}$ "
+60	20.68	13.64	7.04	7' 0 $\frac{1}{2}$ "
+85	20.87	14.05	6.82	6' 10"
12+10		14.47		
+35	21.28	14.88	6.40	6' 4 $\frac{3}{4}$ "
+60	21.66	15.30	6.36	6' 4 $\frac{3}{4}$ "
+85	22.13	15.71	6.42	6' 5"
13+10	22.46	16.12	6.34	6' 4 $\frac{1}{8}$ "
+35	22.76	16.54	6.22	6' 2 $\frac{3}{4}$ "
+60	23.12	16.95	6.17	6' 2"
+85	23.67	17.37	6.30	6' 3 $\frac{5}{8}$ "
14+10	23.94	17.78	6.17	6' 2"
+35	24.45	18.20	6.25	6' 3"

318-991

129

H 20

124

5th St. N. of K.

Sta	El.	Lead	Cut	
141+60	24.65	18.61	6.04	6' 0 $\frac{1}{2}$ "
+85	25.32	19.03	6.29	6' 3 $\frac{1}{2}$ "
157+10	25.79	19.14	6.35	6' 4 $\frac{1}{4}$ "
+85	26.00	19.86	6.14	6' 1 $\frac{3}{4}$ "
+60	26.39	20.27	6.12	6' 1 $\frac{1}{2}$ "
+80	26.59	20.60	5.99	5' 11 $\frac{1}{2}$ "
16	26.72	20.93	5.79	5' 9 $\frac{1}{2}$ "
+20	27.05	21.26	5.72	5' 8 $\frac{5}{8}$ "
+40	27.35	21.60	5.78	5' 9 $\frac{3}{8}$ "
+65	27.75	22.01	5.74	5' 8 $\frac{7}{8}$ "
+90	28.25	22.43	5.82	5' 9 $\frac{1}{2}$ "
17+15	28.68	22.84	5.84	5' 10 $\frac{1}{8}$ "
+40	29.16	23.25	5.91	5' 10 $\frac{3}{8}$ "
+65	29.51	23.67	5.84	5' 10 $\frac{1}{8}$ "
+90	30.10	24.08	6.02	6' 0 $\frac{1}{2}$ "
18+15	30.67	24.50	6.17	6' 2"
+40	31.42	24.91	6.51	6' 6 $\frac{1}{8}$ "
+65	31.80	25.33	6.47	6' 5 $\frac{3}{8}$ "
+90	32.18	25.74	6.44	6' 5 $\frac{1}{2}$ "
19+15	32.67	26.16	6.51	6' 6 $\frac{1}{4}$ "
+40	33.04	26.57	6.47	6' 5 $\frac{5}{8}$ "

124

G80

112.0

165997

121

11.7

Sta	Ele	Lead	Cor	
19+60	33.42	26.90	6.52	6' 6 1/4"
+80	33.63	27.23	6.40	6' 4 3/4"
20	33.78	27.57	6.21	6' 2 3/4"
+20	33.99	27.90	6.09	6' 1 1/2"
+113	34.20	28.31	5.89	5' 10 5/8"
+170	34.62	28.73	5.89	5' 10 5/8"
+96	35.22	29.14	6.08	6' 1"
21+20	35.87	29.56	6.31	6' 2 3/4"
+44	36.38	29.97	6.41	6' 4 3/4"
+70	36.94	30.38	6.56	6' 6 3/4"
+95	37.54	30.80	6.74	6' 8 3/4"
22+20	37.99	31.21	6.78	6' 9 3/4"
+05	38.44	31.63	6.81	6' 9 3/4"
+70	38.87	32.04	6.83	6' 11"
+95	39.37	32.46	6.91	6' 10 3/4"
23+20	39.67	32.87	6.80	6' 9 5/8"
+110	40.10	33.20	6.90	6' 10 3/4"
+60	40.29	33.53	6.76	6' 9 1/4"
+90	40.55	33.87	6.68	6' 7 3/4"
24	40.87	34.20	6.67	6' 7"
+25	41.33	34.61	6.72	6' 8 5/8"

F 3/4

174.8 2.8 8+4 E Extra

N L F

318.991

100

N L F

E 99

N L F

6

5 # 11-11-11

Sta	Elev	Grade	Cut	
24+50	41.75	35.03	6.72	6' 9 3/4"
+70	42.16	35.44	6.72	6' 8 3/4"
25	42.56	35.86	6.70	6' 8 3/8"
+20	43.30	36.27	7.03	7' 0 3/4"
+50	43.74	36.69	7.05	7' 0 3/8"
+75	44.22	37.10	7.12	7' 1 1/2"
26	44.80	37.51	7.29	7' 3 1/2"
+20	45.26	37.93	7.33	7' 4"
+50	45.86	38.34	7.52	7' 6 1/4"
+75	45.75	38.76	6.99	6' 11 3/4"
27	46.48	39.17	7.31	7' 3 3/4"
+20	47.03	39.60	7.53	7' 6 3/8"
+40		39.84		
+60	47.41	40.17	7.24	7' 2 3/4"
+80	47.48	40.50	6.98	6' 11 3/8"
28+00	47.74	40.71	7.03	7' 0 3/8"
+30	48.19	40.93	7.26	7' 3 1/8"
+55	48.33	41.14	7.19	7' 2 1/4"
+80	48.89	41.36	7.53	7' 6 3/8"
29+00	49.61	41.57	8.04	8' 0 1/2"
+20	49.99	41.78	8.21	8' 2 1/2"

165-816
011

D 30

X 11-11-11

8653
100

5th Lt. Mt. K

Sta	Elm.	Level	Cor-	
29+65	50.09	42.00	8.19	8' 1 $\frac{1}{2}$ "
+80	50.64	42.21	8.43	8' 5 $\frac{1}{2}$ "
30+03	50.97	42.42	8.55	8' 6 $\frac{1}{2}$ "
+80	51.48	42.64	8.94	8' 11 $\frac{1}{4}$ "
+55	51.89	42.85	9.04	9' 0 $\frac{1}{2}$ "
+80	52.32	43.07	9.25	9' 3"
31	52.35	43.24	9.11	9' 1 $\frac{3}{4}$ "
+20	52.45	43.41	9.04	9' 1 $\frac{1}{2}$ "
+40	52.53	43.58	8.95	8' 11 $\frac{3}{4}$ "
+60	52.61	43.78	8.86	8' 10 $\frac{3}{4}$ "
+85	52.78	43.96	8.82	8' 9 $\frac{1}{2}$ "
32+10	52.94	44.18	8.80	8' 9 $\frac{1}{2}$ "
+35	53.08	44.39	8.69	8' 8 $\frac{1}{2}$ "
+60	53.16	44.61	8.55	8' 6 $\frac{3}{4}$ "
+85	53.20	44.82	8.38	8' 4 $\frac{1}{2}$ "
33+10	53.19	45.03	8.16	8' 1 $\frac{1}{2}$ "
+95	53.16	45.25	7.91	7' 10 $\frac{1}{4}$ "
+60	53.32	45.46	7.86	7' 10 $\frac{3}{4}$ "
+85	53.51	45.67	7.84	7' 10 $\frac{1}{2}$ "
34+10	53.76	45.90	7.86	7' 10 $\frac{3}{4}$ "
+35	53.77	46.11	7.66	7' 5"

sd c

Cor

sd c

8.998
111

34.35
34.60
2.17

End of 8' 19" m

5-¹⁴/₇ A1-11 of K

Sta	Elev	Gravel	cut-		
34+60	53.96	46.32	7.64	7' 7 ¹ / ₂ "	N2B
+80	54.16	46.49	7.67	7' 8"	
35-	54.38	46.66	7.72	7' 8 ¹ / ₂ "	B str
+20	54.14	46.83	7.31	7' 3 ³ / ₄ "	
+40	54.74	47.00	7.75	7' 9"	N2B
+65	55.43	47.86	7.57	7' 6 ¹ / ₂ "	
+90	56.14	48.72	7.42	7' 5"	
36+15	57.14	49.59	7.55	7' 6 ¹ / ₂ "	
+40	58.02	50.46	7.56	7' 6 ³ / ₄ "	
+65	59.21	51.32	7.89	7' 10 ³ / ₄ "	
+90	60.37	52.18	8.19	8' 2 ¹ / ₄ "	
37+15	61.12	53.05	8.07	8' 0 ¹ / ₂ "	
+40	62.09	53.91	7.84	7' 10 ³ / ₄ "	
+65	62.99	54.78	8.21	8' 2 ¹ / ₂ "	
+90	64.07	55.64	8.43	8' 5 ¹ / ₂ "	
38+15	64.83	56.50	8.33	8' 4"	
+40	65.73	57.37	8.36	8' 4 ³ / ₄ "	N2A
+60	66.27	58.06	8.21	8' 2 ¹ / ₂ "	
+80	66.80	58.75	8.05	8' 0 ⁵ / ₈ "	A str
39	67.39	59.44	7.95	7' 11 ¹ / ₈ "	
+20	67.41	60.13	7.68	7' 8 ¹ / ₂ "	N2A

X 53-3-3100

659118

110

5th St - N 1/2 K

Sta	Elem	Lead	Cor		
39+45	68.51	61.00	7.51	7' 6"	
+70	69.52	61.86	7.66	7' 7"	
+95	69.95	62.72	7.26	7' 3"	
40+20	70.75	63.59	7.16	7' 1"	
+45	71.49	64.45	7.09	7' 0"	
+70	72.17	65.32	6.85	6' 10"	699 N
+95	72.80	66.18	6.62	6' 7"	80
41+20	73.62	67.04	6.58	6' 7"	
+45	74.41	67.90	6.51	6' 6"	
+70	75.11	68.77	6.34	6' 4"	
+95	75.96	69.63	6.33	6' 4"	
42+20	76.64	70.50	6.14	6' 1 1/2"	x 1/2 Ash
+40	77.41	71.13	6.28	6' 3 3/8"	
+60	77.94	71.75	6.19	6' 2 1/2"	x Ash
+80	79.64	72.38	6.26	6' 3 3/8"	
43	79.16	73.00	6.16	6' 1 3/8"	x 1/2 Ash

6th St - N. J.

Sta	Elev	Inch	Out	
0	7.00			
+20	6.62			
29	6.68			
+39	7.12			
48	7.40			
57	7.72			
+65 = 1	7.78	1.00	2.05	2' 0"
+25	8.17	1.13	2.06	2' 0"
+40	8.45	1.25	2.18	2' 2"
+44	8.76	1.38	2.34	2' 4"
2	8.93	1.50	2.43	2' 5"
+25	4.29	1.67	2.66	2' 8"
+30		1.75		
0	7.00	0.0	7.00	7' 0"
+20	6.62	1.63	5.59	5' 7 1/4"
+29	6.68	1.49	5.19	5' 2 1/4"
+39	7.12	2.00	5.12	5' 1 1/2"
+48	7.40	2.91	4.49	4' 4 7/8"
+58	7.72	3.91	3.81	3' 9 3/4"
+65 =	7.78	4.62	3.16	3' 1 7/8"

= 65

9201, 1026

+

+

= 4780

Sta	Elev	Rad	cur	
11+80	7.74	4.62	3.12	3' 1 $\frac{1}{2}$ "
3705	7.74	4.76	3.02	3' 0 $\frac{1}{2}$ "
+300	8.14	4.90	3.14	3' 1 $\frac{3}{4}$ "
+555	8.68	5.03	3.65	3' 7 $\frac{3}{4}$ "
+80	9.13	5.17	3.96	3' 11 $\frac{1}{2}$ "
6105	9.43	5.31	4.12	4' 1 $\frac{1}{2}$ "
+90	9.79	5.45	4.34	4' 4"
+55	10.15	5.59	4.46	4' 5 $\frac{1}{2}$ "
+80	10.24	5.72	4.52	4' 6 $\frac{1}{4}$ "
7+05	10.61	5.86	4.75	4' 9"
+20	11.09	6.00	5.09	5' 1 $\frac{1}{4}$ "
+55	11.56	6.14	5.42	5' 5"
+80	12.07	6.28	5.79	5' 9 $\frac{1}{2}$ "
8	12.24	6.39	5.85	5' 10 $\frac{1}{4}$ "
+20	12.68	6.50	6.14	6' 2 $\frac{1}{4}$ "
+40	12.94	6.81	6.17	6' 2"
+60	13.39	7.12	6.27	6' 3 $\frac{1}{4}$ "
+85	13.44	7.42	5.92	5' 11"
9+10	14.16	7.91	6.25	6' 3"
+35	14.46	8.30	6.16	6' 1 $\frac{3}{4}$ "
+60	14.55	8.69	6.16	6' 1 $\frac{3}{4}$ "

65-97
1000

J. S. M.

1.6766

6^{1/2} St. N. of L.

Sta	Elev	Grad	Cut	
9+85	15.26	9.08	6.19	6' 2 1/2"
10+10	15.80	9.47	6.33	6' 4"
+95	16.29	9.86	6.43	6' 5 1/2"
+60	16.83	10.26	6.57	6' 6 1/2"
+85	17.03	10.65	6.34	6' 4 1/2"
11+10	17.61	11.04	6.57	6' 6 1/2"
+85	17.80	11.43	6.37	6' 4 1/2"
+60	18.37	11.82	6.49	6' 5 1/2"
+80	18.58	12.14	6.44	6' 5 1/2"
12	18.79	12.45	6.34	6' 4 1/2"
+20	18.97	12.77	6.20	6' 2 3/4"
+40	19.16	13.08	6.08	6' 1"
+65	19.65	13.47	6.14	6' 2 1/2"
+90	19.95	13.86	6.09	6' 1 1/2"
13+15	20.57	14.25	6.32	6' 3 3/4"
+40	20.98	14.65	6.33	6' 4"
+65	21.37	15.03	6.34	6' 4 1/2"
+90	21.91	15.43	6.48	6' 5 1/2"
14+15	22.46	15.82	6.64	6' 7 1/2"
+40	22.92	16.21	6.71	6' 8 1/2"

$$\begin{array}{r} 1.6666 \\ 1100 \end{array}$$

11.73

11.85

11.97

$$\begin{array}{r} 99143 + 25 \\ 3183 : 20 \end{array}$$

6th St-N of L

Sta	Elev	Grade	Cut	
9	14+65	23.26	16.60	6.66 6' 4"
1	+90	23.88	16.99	6.89 6' 10 ³ / ₄ "
	15+15	24.36	17.39	6.97 6' 11 ³ / ₈ "
	+40	24.44	17.78	6.70 6' 8 ³ / ₈ " S.S.
	+65	24.85	18.17	6.68 6' 8 ¹ / ₂ "
11	+90	25.10	18.56	6.54 6' 6 ¹ / ₂ " H.S.
	16+15	25.36	18.95	6.41 6' 4 ¹ / ₂ "
	+40	25.51	19.35	6.16 6' 1 ³ / ₈ " N.S.
	+65	26.20	19.74	6.46 6' 5 ¹ / ₂ "
	+90	26.64	20.13	6.51 6' 6 ¹ / ₂ "
	17+15	27.13	20.52	6.63 6' 7 ¹ / ₂ "
	+40	27.79	20.91	6.88 6' 10 ³ / ₈ "
	+65	28.29	21.30	6.99 6' 11 ¹ / ₂ "
	+90	28.51	21.70	6.81 6' 9 ³ / ₄ "
14	18+15	29.04	22.09	6.95 6' 11 ³ / ₈ "
	+40	29.60	22.48	7.12 7' 1 ¹ / ₂ "
	+65	30.11	22.87	7.24 7' 2 ³ / ₈ "
	+90	30.30	23.26	7.04 7' 0 ¹ / ₂ "
14	19+15	30.58	23.65	6.93 6' 11 ³ / ₈ "
	+40	31.11	24.05	7.06 7' 0 ¹ / ₂ " S.S.

6th St - Prof L

Sta Elev Grad Cur

9	19+60	31.36	24.36	7.00	7' 00"	
1	+80	31.44	24.67	6.77	6' 9 $\frac{1}{2}$ "	Gr 30
	20	31.52	24.99	6.53	6' 6 $\frac{3}{8}$ "	
	+20	31.64	25.30	6.34	6' 4 $\frac{1}{8}$ "	M.S.
	+44	31.80	25.65	6.15	6' 1 $\frac{3}{4}$ "	
1	+70	32.06	25.99	6.37	6' 4 $\frac{1}{2}$ "	
	+95	32.51	26.34	6.17	6' 2"	
	21+20	33.01	26.68	6.33	6' 4"	
	+44	33.17	27.03	6.14	6' 1 $\frac{3}{4}$ "	
	+70	33.18	27.37	5.41	5' 9 $\frac{3}{4}$ "	
	+95	33.68	27.72	5.96	5' 11 $\frac{1}{2}$ "	
	22+20	34.18	28.06	6.07	6' 0 $\frac{1}{4}$ "	
	+44	34.60	28.41	6.19	6' 2 $\frac{1}{4}$ "	
	+70	35.00	28.76	6.24	6' 2 $\frac{3}{8}$ "	Corn et al
1	+96	35.56	29.10	6.46	6' 5 $\frac{1}{2}$ "	
	23+20	35.93	29.46	6.47	6' 5 $\frac{1}{2}$ "	M.S.
	+40	36.30	29.73	6.57	6' 6 $\frac{3}{8}$ "	
	+60	36.56	30.00	6.56	6' 6 $\frac{1}{4}$ "	F.S.T.
	+80	36.93	30.37	6.56	6' 6 $\frac{3}{8}$ "	
1	24	37.65	30.75	6.30	6' 3 $\frac{1}{4}$ "	M.S.

15-

6 St-Prof Lo

Sta	Elev	Grad	Cont	
924+25	37.50	31.22	6.29	6' 3 $\frac{3}{4}$ "
+30	37.82	31.69	6.13	6' 1 $\frac{1}{4}$ "
+75	38.22	32.16	6.06	6' 0 $\frac{3}{4}$ "
25	38.63	32.63	6.00	6' 0"
+25	39.19	33.09	6.10	6' 1 $\frac{1}{2}$ "
+50	39.73	33.56	6.17	6' 2"
+75	40.23	34.03	6.20	6' 2 $\frac{3}{8}$ "
24	40.75	34.50	6.28	6' 3 $\frac{3}{4}$ "
+25	41.06	34.97	6.09	6' 1 $\frac{1}{8}$ "
+50	41.50	35.44	6.06	6' 0 $\frac{3}{4}$ "
+75	42.05	35.91	6.14	6' 1 $\frac{3}{8}$ "
27	42.44	36.38	6.06	6' 0 $\frac{3}{4}$ "
+20	42.64	36.75	5.89	5' 10 $\frac{3}{4}$ "
+40	42.93	37.13	5.80	5' 9 $\frac{5}{8}$ "
+60	43.17	37.50	5.67	5' 8"
+80	43.62	37.88	5.74	5' 8 $\frac{3}{4}$ "
28+05	44.22	38.34	5.88	5' 10 $\frac{5}{8}$ "
+30	44.73	38.81	5.92	5' 11"
+55	45.34	39.28	6.06	6' 0 $\frac{3}{4}$ "
+80	45.94	39.75	6.19	6' 2 $\frac{1}{4}$ "

175.67
1000

SE

ESR

NESR

16 6th May 20

Sta	Elev	Grade	cut	
9	2.9+05	46.52	40.22	6.30 6' 9 $\frac{1}{4}$ "
1	+30	47.00	40.69	6.31 6' 3 $\frac{1}{2}$ "
	+55	47.69	41.16	6.53 6' 6 $\frac{3}{4}$ "
	+80	48.42	41.63	6.79 6' 9 $\frac{1}{2}$ "
30+05	48.91	42.09	6.82	6' 9 $\frac{3}{4}$ "
1	+30	49.33	42.56	6.77 6' 9 $\frac{1}{4}$ "
	+55	49.95	43.03	6.95 6' 11 $\frac{3}{4}$ "
	+80	50.36	43.50	6.86 6' 10 $\frac{3}{4}$ "
	31		43.58	
	+20		44.25	
	+40		44.63	
	+60		45.00	
	+85		45.21	
32+10			45.42	
1	+35		45.64	
	+60		45.86	
	+85		46.07	
33+10			46.28	
1	+35		46.50	
	+60		46.71	

17857
110

6. D8

D8

X 120

85526
100

85526-100
17105-20
21341-25

17 6 ¹¹/₄ No of Lo

Sta. Elev. Grade Cut-

9	33785	46.92		
1	34410	47.10		
	+35	47.35		
	+60	47.57		LZC
	+80	47.75		
1	33	47.91		C. ST
	+20	48.11		
	+40	48.25		NZC
	+65	48.40		
	+90	48.55		
	36+15	48.70		
	+40	48.85		
	+65	49.00		
	+90	49.15		
1	37+15	49.30		
	+40	49.45		
	+65	49.60		
	+90	49.75		
1	38+15	49.90		
	+40	50.05		LZB

56826
1080

18 6th No. of L

Sta	Elev	Grade	Cur.	
38	+60			20626
	+80			B ST
39				
	+20			x 12 B
	+45			
40	+70			
	+95			
40	+20			
	+45			
	+70			
	+95			
41	+20			
	+45			
	+70			
	+95			
42	+20			x 12 A
	+40			
	+60			A ST
	+80			
43				x 12 A

19

6

th Lt. Mt of L₂

19

No	Elev	Grade	Cont
----	------	-------	------

9	43+25		
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1	+50		
---	-----	--	--

	+75		
--	-----	--	--

	44		
--	----	--	--

	+25		
--	-----	--	--

1	+50		
---	-----	--	--

	+75		
--	-----	--	--

	45		
--	----	--	--

	+25		
--	-----	--	--

	+50		
--	-----	--	--

	+75		
--	-----	--	--

	46		
--	----	--	--

	+25		
--	-----	--	--

	+50		
--	-----	--	--

1	+75		
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12 feet

20

7th St - N of L^o Sep 5 1917

Sta	Elev	Grade	Cut	Dist	
9	1	6.25	1.20	5.05	5' 0 $\frac{1}{2}$ "
1	+25	6.70	1.42	5.28	5' 3 $\frac{1}{2}$ "
	+36	7.01	1.64	5.37	5' 4 $\frac{1}{2}$ "
	+75	7.34	1.86	5.48	5' 6 $\frac{1}{2}$ "
2		7.78	2.18	5.70	5' 8 $\frac{1}{2}$ "
1	+25	8.10	2.30	5.80	5' 9 $\frac{1}{2}$ "
	+32	8.53	2.52	6.01	6' 0 $\frac{1}{2}$ "
	+75	8.76	2.74	6.02	6' 0 $\frac{1}{2}$ "
3		9.34	2.96	6.38	6' 4 $\frac{1}{2}$ "
	+25	9.67	3.19	6.48	6' 5 $\frac{1}{2}$ "
	+36	9.84	3.41	6.43	6' 5 $\frac{1}{2}$ "
	+75	10.12	3.63	6.49	6' 5 $\frac{1}{2}$ "
4		10.66	3.85	6.81	6' 9 $\frac{1}{2}$ "
	+25	11.03	4.02	7.01	7' 0 $\frac{1}{2}$ "
1	+40	11.34	4.20	7.14	7' 1 $\frac{1}{2}$ "
	+60	11.62	4.46	7.16	7' 1 $\frac{1}{2}$ "
	+80	11.78	4.72	7.06	7' 0 $\frac{1}{2}$ "
5	+15	11.85	5.05	6.80	6' 9 $\frac{1}{2}$ "
1	+30	12.18	5.38	6.80	6' 9 $\frac{1}{2}$ "
	+55	12.48	5.70	6.78	6' 9 $\frac{1}{2}$ "
	+80	12.81	6.03	6.78	6' 9 $\frac{1}{2}$ "

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

20

7th St - Curve 2 to 8th

Sta	Elev	Grade	cut	
0	5.92	0.75	5.17	5' 2"
+16	6.01	0.92	5.09	5' 1 $\frac{1}{8}$ "
+25	6.11	1.02	5.09	5' 1 $\frac{1}{8}$ "
+33	6.29	1.10	5.19	5' 2 $\frac{1}{4}$ "
+42 = 1+25	6.66	1.20	5.46	5' 5 $\frac{1}{2}$ "

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

x

20 ft.

7th St. Prof. 20. Sep 6/97

Sta	Elev	Grad	Cut	Inches
9 6+05	12.96	6.36	6.60	6' 7 $\frac{1}{4}$ "
1 +30	13.22	6.68	6.54	6' 6 $\frac{1}{2}$ "
+55	13.51	7.01	6.50	6' 6"
+80	13.73	7.34	6.39	6' 4 $\frac{3}{4}$ "
7+05	14.15	7.67	6.51	6' 6 $\frac{1}{2}$ "
1 +31	14.63	7.99	6.64	6' 7 $\frac{3}{4}$ "
+55	14.99	8.32	6.67	6' 8"
+80	15.24	8.65	6.59	6' 7 $\frac{1}{2}$ "
8	15.57	8.91	6.66	6' 8"
+20	15.69	9.17	6.52	6' 6 $\frac{1}{4}$ "
+40	16.04	9.43	6.61	6' 7 $\frac{3}{4}$ "
+60	16.27	9.69	6.58	6' 7"
+85	16.69	10.02	6.67	6' 8"
9 +10	17.12	10.35	6.77	6' 9 $\frac{1}{4}$ "
+35	17.54	10.67	6.87	6' 10 $\frac{1}{2}$ "
+60	17.74	11.01	6.74	6' 8 $\frac{3}{4}$ "
+85	18.22	11.33	6.89	6' 10 $\frac{3}{4}$ "
10+10	18.25	11.66	6.59	6' 7 $\frac{1}{2}$ "
+35	18.71	11.98	6.73	6' 8 $\frac{3}{4}$ "
+60	18.93	12.31	6.62	6' 7 $\frac{1}{2}$ "
+85	19.12	12.64	6.48	6' 5 $\frac{3}{4}$ "

$$\frac{1.8179}{100}$$

x.177

J.P.T.

x

Mendenhall Level
Leonard Rd 7th St above L
Apr 6 1917

Sta	Elev	Grade	Cut	side
9	11+10	19.34	12.96	6.43 6' 5 $\frac{1}{2}$ "
1	+35	19.81	13.29	6.52 6' 6 $\frac{1}{2}$ "
	+60	20.23	13.62	6.61 6' 7 $\frac{3}{8}$ "*
	+80	20.24	13.88	6.36 6' 4 $\frac{3}{8}$ "
	12	20.62	14.14	6.38 6' 4 $\frac{5}{8}$ " X I. 27
1	+20	20.74	14.47	6.27 6' 3 $\frac{3}{8}$ "
	+40	20.82	14.81	6.01 6' 0 $\frac{3}{8}$ " *
	+65	21.15	15.22	5.93 5' 11 $\frac{1}{8}$ "
	+90	21.49	15.64	5.84 5' 10 $\frac{3}{8}$ "
	13+15	22.11	16.06	6.05 6' 0 $\frac{3}{8}$ "
	+40	22.64	16.47	6.17 6' 2"
	+65	23.00	16.89	6.11 6' 1 $\frac{3}{8}$ "
	+90	23.55	17.31	6.24 6' 2 $\frac{3}{8}$ "
	14+15	24.10	17.72	6.38 6' 4 $\frac{3}{8}$ "
1	+40	24.65	18.14	6.51 6' 6 $\frac{3}{8}$ "
	+65	25.20	18.56	6.64 6' 7 $\frac{3}{8}$ "
	+90	25.33	19.97	6.36 6' 4 $\frac{3}{8}$ "

Next Page

7th St above E

	Sto	Colo	Grade	Cut	inches	
9	15+15	24.72	19.39	6.33	6' 4"	
1	+40	26.25	19.81	6.44	6' 5 $\frac{1}{4}$ "	↓
	15+65	26.43	20.22	6.21	6' 2 $\frac{1}{2}$ "	
	+90	27.06	20.64	6.42	6' 5"	H
	16+15	27.40	21.06	6.34	6' 4 $\frac{1}{2}$ "	
1	+40	27.72	21.47	6.25	6' 3"	+
	+65	27.91	21.89	6.02	6' 0 $\frac{1}{4}$ "	
	+90	29.04	22.31	6.73	6' 8 $\frac{1}{4}$ "	
	17+15	29.53	22.72	6.81	6' 9 $\frac{1}{4}$ "	
	+40	30.08	23.14	6.94	6' 11 $\frac{1}{4}$ "	11.60
	+65	30.77	23.56	7.21	7' 2 $\frac{1}{2}$ "	
	+90	31.39	23.97	7.41	7' 4 $\frac{1}{2}$ "	
	18+15	31.93	24.39	7.54	7' 6 $\frac{1}{2}$ "	
	+40	32.66	24.81	7.85	7' 10 $\frac{1}{2}$ "	
	+65	33.40	25.22	8.18	8' 2 $\frac{1}{2}$ "	
	+90	34.04	25.64	8.40	8' 4 $\frac{3}{4}$ "	
	19+15	34.59	26.06	8.53	8' 6 $\frac{3}{4}$ "	
	+40	35.01	26.47	8.54	8' 6 $\frac{1}{2}$ "	11.6
	+60	35.26	26.81	8.45	8' 5 $\frac{1}{4}$ "	
	+80	35.68	27.14	8.54	8' 6 $\frac{1}{2}$ "	11.6
	20	35.99	27.47	8.51	8' 6 $\frac{1}{2}$ "	

7th St. N. of L.

Sta	Elev	Grad	Cut		
20+20	36.42	27.91	8.61	8' 7 ³ / ₈ "	N.A.B
+45	36.77	28.22	8.55	8' 6 ⁵ / ₈ "	
+70	37.19	28.64	8.55	8' 6 ⁵ / ₈ "	
+95	37.68	29.06	8.62	8' 7 ¹ / ₂ "	
21+20	38.03	29.47	8.56	8' 6 ³ / ₄ "	
+45	38.51	29.89	8.62	8' 7 ¹ / ₂ "	
+70	39.00	30.31	8.69	8' 8 ¹ / ₄ "	
+95	39.56	30.72	8.84	8' 10 ¹ / ₄ "	
22+20	39.94	31.14	8.70	8' 9 ³ / ₄ "	
+45	40.22	31.56	8.66	8' 8"	
+70	40.68	31.97	8.71	8' 8 ¹ / ₂ "	
+95	40.97	32.39	8.58	8' 7"	
23+20	41.42	32.81	8.61	8' 7 ³ / ₈ "	J.S.F
+40	41.50	33.14	8.36	8' 4 ³ / ₈ "	
+60	41.83	33.47	8.36	8' 4 ³ / ₈ "	F.S.T
+80	41.93	33.81	8.12	8' 1 ¹ / ₂ "	
24	41.82	34.14	7.69	7' 8 ¹ / ₄ "	N.A.F
+25	41.93	34.56	7.37	7' 4 ¹ / ₂ "	
+50	42.18	34.97	7.21	7' 2 ¹ / ₂ "	
+75	42.58	35.39	7.19	7' 2 ¹ / ₄ "	
25	42.59	35.81	6.78	6' 9 ³ / ₄ "	

32.06

1160

7th St. W of L.

Sta	Elev	Grad	Cut	
9 25+25	42.82	36.22	6.60	6' 7 $\frac{1}{4}$ "
10 +30	43.23	36.64	6.59	6' 7 $\frac{1}{8}$ "
+75	43.48	37.06	6.42	6' 5"
26 43.69	37.47	6.22	6' 2 $\frac{1}{2}$ "	
+25	43.97	37.89	6.09	6' 1"
10 +40	44.42	38.31	6.11	6' 1 $\frac{3}{8}$ "
+75	44.78	38.72	6.06	6' 0 $\frac{1}{4}$ "
27 45.14	39.14	6.00	6' 0"	
+20	45.32	39.47	5.85	5' 10 $\frac{1}{4}$ "
+40	45.70	39.81	5.89	5' 10 $\frac{3}{4}$ "
+60	46.08	40.14	5.86	5' 10 $\frac{3}{8}$ "
+80	46.32	40.47	5.85	5' 10 $\frac{1}{4}$ "
28+05	46.80	40.89	5.91	5' 10 $\frac{3}{4}$ "
+30	47.33	41.31	6.02	6' 0 $\frac{1}{4}$ "
+55	47.94	41.72	6.22	6' 1 $\frac{1}{2}$ "
+80	48.50	42.14	6.36	6' 4 $\frac{3}{8}$ "
29+05	49.20	42.56	6.64	6' 7 $\frac{3}{4}$ "
+30	49.77	42.97	6.80	6' 9 $\frac{5}{8}$ "
+55	50.50	43.39	7.11	7' 1 $\frac{3}{8}$ "
+80	51.08	43.81	7.27	7' 3 $\frac{1}{4}$ "
30+05	51.57	44.22	7.29	7' 3 $\frac{1}{2}$ "

0
6
ST

E ST

NSE

7th St. - No. 2

Sta	Elev	Grade	Cut	
30+30	52.22	44.64	7.58	7' 7"
+45	52.99	45.06	7.93	7' 11 $\frac{1}{2}$ "
+80	53.39	45.47	7.92	7' 11 $\frac{1}{2}$ "
31	53.45	45.51	7.64	7' 7 $\frac{3}{4}$ "
+20	53.73	46.14	7.59	7' 7 $\frac{1}{2}$ "
+40	53.97	46.47	7.50	7' 6"
+60	54.12	46.81	7.31	7' 3 $\frac{3}{4}$ "
+85	54.68	47.22	7.46	7' 5 $\frac{1}{2}$ "
32+10	55.19	47.64	7.55	7' 6 $\frac{1}{2}$ "
+35	55.69	48.06	7.62	7' 7 $\frac{1}{2}$ "
+60	56.21	48.47	7.74	7' 8 $\frac{3}{8}$ "
+85	56.56	48.99	7.67	7' 8"
33+10	57.14	49.31	7.83	7' 10"
+35	57.58	49.72	7.86	7' 10 $\frac{3}{8}$ "
+60	57.98	50.14	7.84	7' 10 $\frac{1}{2}$ "
+85	58.38	50.56	7.82	7' 9 $\frac{3}{4}$ "
34+10	58.92	50.97	7.87	7' 10 $\frac{3}{8}$ "
+35	59.19	51.39	7.70	7' 8 $\frac{3}{4}$ "
+60	59.38	51.81	7.57	7' 6 $\frac{3}{4}$ "
+85	59.57	52.14	7.43	7' 5 $\frac{1}{2}$ "
35	59.77	52.47	7.30	7' 3 $\frac{3}{4}$ "

End of Johnson's contract

N. Line 9 St.

S. Line 8 St.

6 St.

D

160

x

7th St. North of K. St.

	Sta	Elev.	Gradient.		
9	35+20	59.93	52.57	7.36	7' 4 $\frac{1}{2}$ "
10	+40	60.11	52.66	7.45	7' 5 $\frac{1}{8}$ "
	+65	59.94	52.74	7.16	7' 1 $\frac{3}{8}$ "
	+90	59.84	52.90	6.94	6' 11 $\frac{1}{4}$ "
11	36+15	60.10	53.02	7.04	7' 1"
	+40	60.23	53.14	7.11	7' 1 $\frac{3}{8}$ "
	+65	60.23	53.26	6.97	6' 11 $\frac{3}{8}$ "
	+90	60.60	53.37	7.13	7' 1 $\frac{5}{8}$ "
12	37+15	60.52	53.49	7.04	7' 0 $\frac{1}{2}$ "
	+40	60.29	53.61	6.68	6' 8 $\frac{1}{4}$ "
	+65	60.56	53.73	6.83	6' 10"
	+90	60.94	53.85	7.09	7' 1 $\frac{1}{2}$ "
13	38+15	60.98	53.97	7.01	7' 0 $\frac{1}{2}$ "
	+40	61.06	54.09	6.97	6' 11 $\frac{1}{2}$ "
	+60	61.12	54.18	6.94	6' 11 $\frac{1}{4}$ "
	+80	61.01	54.28	6.73	6' 8 $\frac{1}{4}$ "
14	39	61.09	54.37	6.72	6' 8 $\frac{1}{2}$ "
	+20	61.64	54.47	7.17	7' 2"
	+45	61.08	54.25	6.83	6' 10"
	+70	67.13	60.03	7.10	7' 1 $\frac{1}{4}$ "
	+95	70.27	62.80	7.47	7' 5 $\frac{5}{8}$ "

N. Line C. St.

56.17
52.66
3.51

11.210

S. Line C. St.

B. St.

N. Line B. St.

11.9

7th St. North of East.

Sta	Elev	Gradient			
9	40/20	73.09	65.58	7.51	7'6 $\frac{3}{4}$ "
10	+45	75.85	68.36	7.49	7'5 $\frac{3}{4}$ "
	+70	79.02	71.14	7.88	7'10 $\frac{3}{4}$ "
	+95	81.81	73.91	7.90	7'10 $\frac{3}{4}$ "
7	40/20	84.87	76.69	8.18	8'2 $\frac{3}{4}$ "
11	+5	87.82	79.47	8.35	8'11 $\frac{1}{4}$ "
	+70	91.32	82.25	8.07	8'0 $\frac{3}{4}$ "
	+95	93.02	85.03	7.99	7'11 $\frac{1}{4}$ "
42	20	95.19	87.89	7.39	7'4 $\frac{3}{4}$ "
	+40	96.73	89.80	7.93	7'10 $\frac{1}{4}$ "
	+60	97.21	89.80	7.41	7'4 $\frac{3}{4}$ "
	+80	97.28	90.80	6.48	6'4 $\frac{3}{4}$ "
48		98.25	91.80	6.45	6'4 $\frac{1}{4}$ "
	+25	100.51	94.44	6.07	6'0 $\frac{3}{4}$ "
	+50	103.23	97.08	6.15	6'1 $\frac{3}{4}$ "
	+75	105.96	99.72	6.24	6'2 $\frac{3}{4}$ "
44		107.93	102.87	5.56	5'6 $\frac{3}{4}$ "
	+25	111.07	105.01	6.06	6'0 $\frac{3}{4}$ "
	+50	113.98	107.65	6.33	6'4"
	+75	116.86	110.29	6.57	6'6 $\frac{3}{4}$ "
45		119.63	112.93	6.70	6'8 $\frac{3}{4}$ "

+

6'11"

-

x

11'20"

x

11'9 $\frac{1}{2}$ "

S. Line O. St.

O. St.

N. Line O. St.

7th St North of K. St.

Sta Elev Grade Cent.

9	45	122.42	115.57	6.85	6' 10 ¹ / ₄ "	x	1.196
10	45	125.25	118.21	7.04	7' 0 ¹ / ₂ "		
	45	127.69	120.86	6.83	6' 10"		
	46	130.02	123.50	6.52	6' 6 ¹ / ₄ "	x	
	720	131.56	124.63	6.93	6' 11 ¹ / ₈ "		
	440	132.81	125.75	7.06	7' 0 ³ / ₄ "	x	5.625
	460	133.06	126.88	6.18	6' 2 ¹ / ₄ "		1.00
	450	133.65	128.00	5.65	5' 7 ³ / ₄ "	x	
	47405	135.01	130.10	5.01	5' 0 ³ / ₈ "		
	430	137.08	132.10	5.08	5' 1"		
	455	139.37	134.00	5.37	5' 4 ¹ / ₂ "		
	480	141.30	136.00	5.30	5' 3 ⁵ / ₈ "		
	49405	143.47	138.00	5.47	5' 5 ⁵ / ₈ "		
	430	143.13	140.00	5.13	5' 1 ¹ / ₂ "	x	1.126
	455	146.52	140.65	5.87	5' 10 ⁵ / ₈ "		4.100
	480	147.51	141.30	6.21	6' 2 ¹ / ₂ "		
	49405	148.29	141.96	6.33	6' 4"		
	430	148.00	142.61	6.39	6' 4 ⁵ / ₈ "		
	455	148.72	143.26	6.46	6' 5 ¹ / ₂ "		
	480	150.30	143.91	6.39	6' 4 ⁵ / ₈ "		
	50	150.94	144.03	6.51	6' 6 ¹ / ₈ "		

S. Line of Ash St.

Ash St.

N. Line of Ash St.

S. Line Beech St

7th St North of K St.

Sta Elev Grade Cut

9	50+20	151.69	144.96	6.73	6' 4 ³ / ₄ "	Back St.
10	+40	151.86	145.48	6.38	6' 2 ¹ / ₂ "	
	+60	152.31	146.00	6.31	6' 3 ³ / ₄ "	Back St.
	+85	153.21	146.25	6.96	6' 11 ¹ / ₂ "	
7	51+10	153.73	146.50	7.23	7' 2 ³ / ₄ "	
10	+35	154.32	146.75	7.57	7' 6 ¹ / ₂ "	
	+60	154.75	147.00	7.78	7' 9 ³ / ₄ "	
	+85	155.39	147.25	8.13	8' 1 ⁵ / ₈ "	
	52+10	156.11	147.50	8.61	8' 7 ³ / ₈ "	
	+35	157.03	147.75	9.28	9' 3 ³ / ₈ "	
	+60	157.72	148.00	9.72	9' 8 ⁵ / ₈ "	
	+85	158.39	148.25	10.14	10' 1 ⁵ / ₈ "	
7	53+10	159.01	148.50	10.58	10' 9"	
	+35	159.87	148.75	11.12	11' 1 ¹ / ₂ "	
10	+60	160.29	149.00	11.29	11' 8 ¹ / ₂ "	Line Clear St.
	+80	159.84	149.12	10.72	10' 8 ⁵ / ₈ "	
	54	160.05	149.24	10.81	10' 9 ³ / ₄ "	Clear St
7	+20	159.73	149.36	10.37	10' 4 ¹ / ₂ "	
14	+40	159.61	149.48	10.13	10' 1 ⁵ / ₈ "	Clear St
	+65	158.94	149.63	9.31	9' 3 ³ / ₄ "	
	+90	158.61	149.78	8.83	8' 10"	

7th St North of K St.

Sta Elev Grade Cut

53+15	158.28	147.93	8.45	8' 5 ³ / ₈ "
+40	158.01	150.09	7.92	7' 11"
+65	158.09	150.24	7.75	7' 9"
+90	157.68	150.39	7.21	7' 2 ¹ / ₂ "
54+15	157.89	150.54	7.05	7' 0 ⁵ / ₈ "
+40	157.31	150.69	6.62	6' 7 ¹ / ₂ "
+65	156.99	150.84	6.15	6' 1 ³ / ₄ "
+90	156.72	151.00	5.72	5' 8 ⁵ / ₈ "
57+15	156.82			
+40	156.24			

7.595
1.00

Grade 156.58
Julse 156.08

Total length of pipe 56+37

145
159.44
161.33
156.04
5

8th St. W. of S.

Sta	Elev	Grade	Cut	
1	8.96	3.20	5.76	5' 9 $\frac{1}{2}$ "
+25	9.27	3.53	5.74	5' 8 $\frac{3}{4}$ "
+50	9.58	3.86	5.67	5' 8 $\frac{1}{2}$ "
+75	9.68	4.20	5.48	5' 5 $\frac{3}{4}$ "
2	10.27	4.53	5.74	5' 8 $\frac{3}{4}$ "
+25	10.68	4.86	5.82	5' 9 $\frac{3}{4}$ "
+50	11.00	5.19	5.81	5' 9 $\frac{3}{4}$ "
+75	11.25	5.53	5.73	5' 8 $\frac{3}{4}$ "
3	11.50	5.86	5.64	5' 7 $\frac{1}{2}$ "
+25	11.90	6.19	5.71	5' 8 $\frac{1}{2}$ "
+50	12.18	6.52	5.66	5' 8"
+75	12.55	6.85	5.70	5' 8 $\frac{3}{4}$ "
4	13.28	7.19	6.09	6' 1 $\frac{1}{2}$ "

2

x

1.9288

0.01

S. + R.

8th St - No 2

Sta	Elev	Grade	Cut		
9	41+20	14.42	7.45	6.97	6' 11 $\frac{1}{2}$ "
10	+44	14.67	7.72	6.95	6' 11 $\frac{3}{8}$ " Knot
	+60	14.95	7.58	7.00	7' 0"
	+80	14.20	8.25	5.95	5' 11 $\frac{3}{8}$ " X
	+105	14.35	8.58	5.77	5' 9 $\frac{1}{4}$ "
11	+30	14.89	8.91	5.98	5' 11 $\frac{1}{2}$ "
	+55	15.49	9.25	6.24	6' 2 $\frac{3}{8}$ " +
	+80	15.78	9.58	6.20	6' 2 $\frac{3}{8}$ "
	6+05	16.27	9.91	6.36	6' 4 $\frac{3}{8}$ "
	+30	16.48	10.24	6.24	6' 2 $\frac{7}{8}$ "
	+55	16.89	10.57	6.32	6' 3 $\frac{1}{8}$ "
	+80	17.17	10.91	6.26	6' 3 $\frac{1}{8}$ "
	7+05	17.54	11.24	6.30	6' 3 $\frac{1}{8}$ "
	+30	17.83	11.57	6.26	6' 3 $\frac{1}{8}$ "
12	+55	18.37	11.90	6.47	6' 5 $\frac{1}{8}$ "
	+80	18.63	12.24	6.39	6' 4 $\frac{1}{2}$ "
	8	18.90	12.50	6.30	6' 3 $\frac{1}{2}$ "
	+20	18.73	12.77	5.96	5' 11 $\frac{1}{2}$ " J. OT.
14	+44	18.85	13.03	5.82	5' 9 $\frac{1}{2}$ "
	+60	19.28	13.30	5.98	5' 11 $\frac{3}{8}$ " N.L. J. OT.
	+85	19.44	13.63	5.81	5' 9 $\frac{3}{8}$ "

N.L. J. OT.

1.9.2.9.9

1.9.2.9.9

N.L. J. OT.

J. OT.

N.L. J. OT.

S. #11 St. Mark L.

	Sta	Elev	Grade	Cur		
9	9+10	19.86	13.96	5.90	5' 9 $\frac{1}{2}$ "	5' 10 $\frac{3}{4}$ "
10	+35	20.00	14.30	5.70	5' 8 $\frac{3}{4}$ "	
	+80	20.37	14.63	5.74	5' 8 $\frac{7}{8}$ "	
	+85	20.64	14.96	5.68	5' 8 $\frac{1}{4}$ "	
	10+10	21.10	15.29	5.81	5' 9 $\frac{3}{4}$ "	
11	+35	21.34	15.62	5.72	5' 9 $\frac{5}{8}$ "	
	+60	21.57	15.96	5.91	5' 10 $\frac{3}{4}$ "	
	+85	22.37	16.29	6.28	6' 2 $\frac{3}{4}$ "	
	14+10	22.38	16.62	5.76	5' 9 $\frac{1}{2}$ "	
	+35	22.74	16.95	5.79	5' 9 $\frac{1}{2}$ "	
	+60	23.12	17.29	5.83	5' 10"	
	+80	23.24	17.55	5.69	5' 8 $\frac{1}{4}$ "	
	24	23.21	17.82	5.39	5' 4 $\frac{5}{8}$ "	I St.
	+20	23.47	18.18	5.39	5' 4 $\frac{5}{8}$ "	
19	+40	23.68	18.35	5.33	5' 4"	
	+65	24.12	18.68	5.44	5' 5 $\frac{1}{4}$ "	
	+90	24.20	19.01	5.19	5' 2 $\frac{1}{2}$ "	
	13+5	24.78	19.34	5.44	5' 5 $\frac{1}{4}$ "	
14	+40	25.16	19.68	5.48	5' 5 $\frac{3}{4}$ "	
	+65	25.77	20.01	5.16	5' 9 $\frac{1}{4}$ "	
	+90	26.16	20.34	5.82	5' 9 $\frac{3}{4}$ "	

5528.1

22.1.85

I St.

N 21.85

	Sta	Elev	Grade	Cut	
9+	144	26.54	20.67	5.87	5' 10 $\frac{1}{2}$ "
10+	+40	27.16	21.01	6.15	6' 1 $\frac{3}{4}$ "
+	+65	27.39	21.34	6.05	6' 0 $\frac{5}{8}$ "
+	+90	27.86	21.67	6.19	6' 2 $\frac{1}{4}$ "
+	5715	27.96	22.00	5.96	5' 11 $\frac{1}{2}$ "
11+	+40	28.24	22.33	5.91	5' 10 $\frac{3}{4}$ "
+	+65	28.37	22.67	5.70	5' 8 $\frac{3}{4}$ "
+	+90	29.53	23.00	6.53	6' 6 $\frac{3}{8}$ "
+	6715	29.54	23.48	6.06	6' 0 $\frac{3}{4}$ "
12	+40	29.76	23.96	5.80	5' 9 $\frac{5}{8}$ "
+	+65	30.22	24.44	5.78	5' 9 $\frac{3}{8}$ "
+	+90	30.70	24.92	5.78	5' 9 $\frac{3}{8}$ "
+	17715	31.32	25.40	5.92	5' 11"
+	+40	31.48	25.88	5.60	5' 7 $\frac{1}{4}$ "
13+	+65	31.85	26.36	5.49	5' 5 $\frac{7}{8}$ "
+	+90	32.17	26.84	5.33	5' 4"
+	18715	32.75	27.32	5.43	5' 5 $\frac{1}{4}$ "
+	+40	33.18	27.79	5.39	5' 4 $\frac{3}{4}$ "
14+	+65	33.73	28.27	5.46	5' 5 $\frac{1}{2}$ "
+	+90	34.53	28.75	5.78	5' 9 $\frac{3}{8}$ "
	19715	35.40	29.23	6.17	6' 2"

5326
1000

2 line

FI ST.

W.H.H.

5175
1001

8th L1-N of L1

	Sta	Elev	Grade	Cut		
9+8	10+40	36.11	29.71	6.40	6' 4 $\frac{3}{4}$ "	S. S. S.
10+	+60	36.96	30.10	6.86	6' 7 $\frac{3}{4}$ "	
+3	+80	37.66	30.48	7.18	7' 2 $\frac{3}{4}$ "	G S F.
+0	20	38.63	30.86	7.77	7' 9 $\frac{1}{4}$ "	
+8	+20	39.21	31.25	7.96	7' 11 $\frac{3}{4}$ "	N. S.
11+1	+45	39.56	31.73	8.13	8' 1 $\frac{3}{4}$ "	
+3	+70	40.56	32.21	8.35	8' 4 $\frac{1}{4}$ "	
+6	+95	41.17	32.69	8.48	8' 5 $\frac{3}{4}$ "	
+8	21+20	41.76	33.16	8.60	8' 7 $\frac{1}{4}$ "	
12	+45	42.18	33.64	8.54	8' 6 $\frac{1}{2}$ "	
+2	+70	42.42	34.12	8.30	8' 9 $\frac{5}{8}$ "	
+4	+95	42.55	34.60	7.95	7' 11 $\frac{3}{4}$ "	
+6	22+20	42.31	35.08	7.23	7' 13 $\frac{1}{4}$ "	
+9	+45	41.84	35.56	6.28	6' 9 $\frac{3}{8}$ "	
13+1	+70	41.66	36.04	5.62	5' 7 $\frac{1}{2}$ "	
+4	+95	41.89	36.52	5.37	5' 4 $\frac{1}{2}$ "	1.75.
+6	23+20	42.02	37.00	5.02	5' 0 $\frac{1}{4}$ "	X 1.45 for
+9	+45	43.51	37.26	6.55	6' 6 $\frac{5}{8}$ "	
14+1	+60	44.20	37.52	6.68	6' 8 $\frac{1}{4}$ "	
+4	+80	44.12	37.78	6.34	6' 4 $\frac{1}{4}$ "	
	24	43.68	38.04	5.60	5' 7 $\frac{1}{4}$ "	

N F

12
8th St. N of L

Sta	Sta	Elev	Grade	Cur	
9+2	24+05	44.23	38.37	5.88	5' 10 $\frac{1}{2}$ "
10+1	+50	44.55	38.70	5.85	5' 10 $\frac{1}{2}$ "
+3	+75	44.89	39.02	5.81	5' 9 $\frac{3}{4}$ "
+0	27	45.37	39.35	6.02	6' 0 $\frac{1}{2}$ "
+8	+25	45.74	39.67	6.07	6' 0 $\frac{1}{2}$ "
11+1	+50	46.05	40.01	6.05	6' 0 $\frac{3}{8}$ "
+3	+75	46.22	40.33	5.89	5' 10 $\frac{1}{2}$ "
+6	26	46.51	40.65	5.86	5' 10 $\frac{3}{8}$ "
+8	+5	46.90	40.98	5.82	5' 9 $\frac{3}{8}$ "
12	50	47.13	41.31	5.84	5' 10 $\frac{1}{4}$ "
+2	+75	47.34	41.63	5.75	5' 9"
+4	27	47.92	41.96	5.96	5' 11 $\frac{1}{2}$ "
+6	+20	48.48	42.22	6.26	6' 3 $\frac{1}{2}$ "
+9	+40	49.18	42.48	6.62	6' 7 $\frac{1}{2}$ "
13+1	+60	49.57	42.74	6.83	6' 10"
+4	+80	49.95	43.00	6.95	6' 11 $\frac{3}{8}$ "
+6	28+05	50.51	43.45	7.06	7' 0 $\frac{3}{4}$ "
+9	+30	50.56	43.90	6.66	6' 8"
14+1	+54	50.99	44.35	6.54	6' 6 $\frac{1}{2}$ "
+4	+80	51.10	44.81	6.29	6' 3 $\frac{1}{2}$ "
	29+05	51.32	45.26	6.06	6' 0 $\frac{3}{4}$ "

1.5042
1.00

E. St.

S.

N

1.8066
1.00

8th St - N of 2^d

Sta	Elev	Grade	Cut
29+30	51.62	45.71	5.91 5'10 $\frac{1}{2}$ "
+55	52.07	46.16	5.91 5'10 $\frac{1}{2}$ "
+80	52.89	46.61	6.28 6'9 $\frac{3}{8}$ "
30+05	53.13	47.06	6.07 6'0 $\frac{1}{2}$ "
30+30	53.58	47.51	6.07 6'0 $\frac{1}{2}$ "
+55	54.11	47.97	6.14 6'1 $\frac{3}{4}$ "
+80	55.01	48.42	6.59 6'7 $\frac{1}{2}$ "
31	55.51	48.78	6.73 6'8 $\frac{3}{4}$ "
+20		49.14	
+40		49.50	
+60			
+85			
32+10			
+35			
+60			
+85			
33+10			
+35			
+60			
+85			
34+10			

1.8056
100

DPT

x

1838

End of Johnson cut

N. Line Dist.

See F.B. 648/17

11
 just North of S. St.

Sta.	Elev.	Side	Cut.
34+35			
	+60		
	+80		
35			
	+20		
	+40		
	+65		
	+90		
36+15			
	+40		
	+65		
	+90		
37+15			
	+40		
	+65		
	+90		
38+15			
	+40		
	+60		
	+80		
39			

S. Line C. St.

C. St.

N. Line C. St.

S. Line B. St.

B. St.

8th St North of A. St.

Sta	Elev	Grade	Cut
39+20			
+15			
+70			
+75			
40+20			
+45			
+70			
+95			
41+20			
+45			
+70			
+95 ²			
42+20			
+40			
+60			
+80			
43			
+25			
+50			
+75			
44			

x

N. Line B. St.

S. Line A. St.

A. St.

N. Line A. St.

5th St. North of L.

Sta.	Elev.	Grade	Cut.
44-25			
+50			
+75			
45			
+25			
+50			
+75			
46			
+20			
+40			
+60			
+80			
47+05			
+30			
+55			
+80			
48+05			
+30			
+55			
+80			
49+05			

S. Line Ash St.

Ash St.

N. Line Ash St.

9th St. N. of D.

Sta	Ele	Grade	Dist		
0	11.91	1.90	10.11	10	1 3/4
+14	11.32	3.27	8.05	8	5/4
+20	11.48	3.91	7.57	7	6 1/4
+26	11.60	4.55	7.05	7	5/4
+35	11.83	5.50	6.33	6	4
+40		6.50			
+24	12.30	5.96	6.44	6	5 1/4
+50	12.70	6.22	6.48	6	5 3/4
+74	13.12	6.58	6.54	6	6 1/2
2	13.51	6.94	6.57	6	6 3/4
+25	14.09	7.30	6.79	6	9 1/2
+50	14.24	7.66	6.58	6	7
+75	14.72	8.02	6.72	6	8 1/2
+9	15.22	8.99	6.93	6	10
+25	15.88	8.72	7.13	7	1 1/4
+50	16.36	9.11	7.25	7	9
+75	16.66	9.47	7.19	7	14
H	16.70	9.83	6.87	6	10 1/2
+20	16.94	10.12	6.82	6	9 1/2
+40	17.17	10.41	6.76	6	9 1/2
+60	17.26	10.69	6.57	6	6 1/2
+80	17.48	10.98	6.50	6	6

PC

$$0 + 89 \text{ PT} = 1 + 05$$

$$= 1 + 05$$



insulation on C. L. Rio. Rio. Rio.

n. K

9th Night Prof Lo

Stat	Elev	Grade	Cor-	
5705	17.66	11.34	6.32	6' 3 $\frac{3}{4}$ "
+30	18.18	11.70	6.48	6' 5 $\frac{3}{4}$ "
+55	18.70	12.06	6.64	6' 7 $\frac{3}{4}$ "
+80	19.26	12.42	6.54	6' 6 $\frac{1}{2}$ "
6705	19.21	12.78	6.43	6' 5 $\frac{1}{2}$ "
+30	19.58	13.15	6.43	6' 5 $\frac{1}{2}$ "
+55	20.18	13.57	6.67	6' 8"
+80	20.56	13.87	6.69	6' 8 $\frac{1}{4}$ "
7705	20.89	14.23	6.66	6' 8"
+30	21.42	14.59	6.83	6' 10"
+55	21.67	14.95	6.72	6' 8 $\frac{5}{8}$ "
+80	22.28	15.32	6.96	6' 11 $\frac{1}{2}$ "
8	22.63	15.61	7.02	7' 0 $\frac{1}{4}$ "
+20	22.95	15.90	7.05	7' 0 $\frac{5}{8}$ "
+40	23.28	16.18	7.10	7' 1 $\frac{1}{4}$ "
+60	23.58	16.47	7.11	7' 1 $\frac{3}{8}$ "
+85	24.21	16.83	7.38	7' 4 $\frac{5}{8}$ "
9710	24.53	17.19	7.34	7' 4 $\frac{1}{8}$ "
+35	24.99	17.55	7.44	7' 5 $\frac{1}{2}$ "
+60	25.30	17.92	7.38	7' 4 $\frac{3}{8}$ "
+85	25.85	18.28	7.57	7' 6 $\frac{7}{8}$ "

14429

S.L.J.

J.P.T.

W.J.

9th Pt N of L

Sta	Ele	Grade	Cur	
10+10	26.13	18.64	7.49	7' 5 $\frac{3}{4}$ "
+35	26.52	19.00	7.52	7' 6 $\frac{1}{4}$ "
+60	26.79	19.36	7.43	7' 5 $\frac{1}{4}$ "
+85	27.12	19.72	7.40	7' 4 $\frac{3}{4}$ "
11+10	27.47	20.08	7.39	7' 4 $\frac{1}{8}$ "
+35	27.81	20.44	7.37	7' 4 $\frac{1}{2}$ "
+60	28.05	20.80	7.25	7' 3"
+80	28.35	21.09	7.29	7' 3 $\frac{1}{2}$ "
12	28.64	21.38	7.26	7' 3 $\frac{3}{8}$ "
+20	28.70	21.67	7.03	7' 0 $\frac{3}{8}$ "
+40	28.60	21.96	6.64	6' 7 $\frac{3}{8}$ "
+65	29.00	22.32	6.68	6' 8 $\frac{1}{8}$ "
+90	29.42	22.68	6.74	6' 8 $\frac{3}{8}$ "
13+15	29.81	23.04	6.77	6' 9 $\frac{1}{4}$ "
+40	30.17	23.40	6.77	6' 9 $\frac{1}{2}$ "
+65	30.47	23.76	6.71	6' 8 $\frac{3}{8}$ "
+90	30.79	24.12	6.67	6' 8"
14+15	31.02	24.48	6.52	6' 6 $\frac{1}{4}$ "
+40	31.57	24.84	6.73	6' 8 $\frac{3}{8}$ "
+65	31.83	25.20	6.63	6' 7 $\frac{3}{8}$ "
+90	32.00	25.56	6.44	6' 5 $\frac{1}{4}$ "

I. 57.

$$\frac{14429}{100}$$

I

N. I.

9th St N of I

Sta	Elev	Grade	Curr		
13+15	32.57	25.92	6.65	6' 7 $\frac{1}{8}$ "	624.29
+40	32.73	26.28	6.45	6' 5 $\frac{3}{8}$ "	624.29
+65	33.21	26.64	6.57	6' 6 $\frac{3}{8}$ "	
+90	33.58	27.00	6.58	6' 7"	FL ST
16+15	33.94	27.35	6.43	6' 5 $\frac{1}{8}$ "	
+40	34.11	28.10	6.01	6' 0 $\frac{1}{2}$ "	N.B.H.
+65	34.85	28.66	6.19	6' 2 $\frac{1}{2}$ "	
+90	35.64	29.21	6.43	6' 5 $\frac{1}{8}$ "	
17+15	36.43	29.76	6.67	6' 8"	
+40	36.99	30.31	6.68	6' 8 $\frac{1}{2}$ "	
+65	37.88	30.86	7.02	7' 0 $\frac{1}{2}$ "	
+90	38.55	31.42	7.13	7' 1 $\frac{1}{2}$ "	
18+15	39.11	31.97	7.14	7' 1 $\frac{3}{8}$ "	
+40	39.75	32.52	7.23	7' 2 $\frac{1}{8}$ "	
+65	40.35	33.07	7.28	7' 3 $\frac{1}{8}$ "	
+90	41.00	33.62	7.38	7' 4 $\frac{1}{8}$ "	
19+15	41.63	34.17	7.46	7' 5 $\frac{1}{2}$ "	
+40	42.25	34.73	7.52	7' 6 $\frac{1}{2}$ "	L.S.
+60	42.90	35.17	7.73	7' 8 $\frac{1}{2}$ "	
+80	43.43	35.61	7.84	7' 10 $\frac{1}{8}$ "	G. ST
20	43.75	36.05	7.70	7' 8 $\frac{3}{8}$ "	

2.2077
1.01

9th St. N. of E.

Sta.	Elev	Grad	Cut	
20+20	44.01	36.49	7.52	7' 6 $\frac{1}{2}$ "
+45	44.52	37.04	7.48	7' 5 $\frac{3}{4}$ "
+70	45.00	37.60	7.40	7' 4 $\frac{3}{4}$ "
+95	45.54	38.15	7.39	7' 4 $\frac{3}{4}$ "
21+20	46.10	38.70	7.40	7' 4 $\frac{3}{4}$ "
+45	46.61	39.25	7.36	7' 4 $\frac{3}{4}$ "
+70	46.96	39.80	7.16	7' 1 $\frac{3}{4}$ "
+95	47.34	40.36	6.98	6' 11 $\frac{3}{4}$ "
22+20	47.85	40.91	6.94	6' 11 $\frac{3}{4}$ "
+45	48.39	41.46	6.93	6' 11 $\frac{3}{4}$ "
+70	48.92	42.01	6.91	6' 10 $\frac{3}{4}$ "
+95	49.41	42.51	6.90	6' 10 $\frac{3}{4}$ "
23+20	49.85	43.12	6.79	6' 9 $\frac{3}{4}$ "
+40	50.22	43.56	6.66	6' 8"
+60	50.57	44.06	6.57	6' 6 $\frac{3}{4}$ "
+80	50.71	44.29	6.42	6' 5"
24	51.13	44.58	6.55	6' 6 $\frac{3}{4}$ "
+25	51.35	44.94	6.41	6' 4 $\frac{3}{4}$ "
+50	51.69	45.30	6.39	6' 4 $\frac{3}{4}$ "
+75	51.96	45.66	6.30	6' 3 $\frac{3}{4}$ "
25	52.35	46.03	6.32	6' 3 $\frac{3}{4}$ "

+11.7
2.9
1.1
2.1

x F. 07

111111
001

9th St N of E

Sta	Elv	Grade	Cut	inches
-----	-----	-------	-----	--------

25+25	52.94	46.39	6.55	6' 6 $\frac{1}{2}$ "
+50	53.32	46.75	6.57	6' 6 $\frac{1}{2}$ "
+75	53.69	47.11	6.59	6' 7"
26	54.24	47.47	6.77	6' 9 $\frac{1}{2}$ "
+25	54.31	47.84	7.07	7' 0 $\frac{1}{2}$ "
+50	55.45	48.20	7.25	7' 3"
+75	56.01	48.56	7.45	7' 5 $\frac{1}{2}$ "
27	56.36	48.92	7.44	7' 5 $\frac{1}{2}$ "
+20	56.64	49.21	7.47	7' 5 $\frac{1}{2}$ "
+40	57.22	49.50	7.72	7' 8 $\frac{1}{2}$ "
+60	57.35	49.79	7.56	7' 6 $\frac{3}{4}$ "
+80	57.53	50.08	7.45	7' 5 $\frac{1}{2}$ "
28+05	57.76	50.44	7.32	7' 3 $\frac{1}{2}$ "
+30	58.19	50.80	7.29	7' 3 $\frac{1}{2}$ "
+55	58.34	51.16	7.14	7' 2 $\frac{1}{2}$ "
+80	58.49	51.53	6.95	6' 11 $\frac{1}{2}$ "
29+05	58.75	51.89	6.86	6' 10 $\frac{3}{4}$ "
+30	59.05	52.25	6.80	6' 9 $\frac{1}{2}$ "
+55	59.37	52.61	6.76	6' 9 $\frac{1}{2}$ "
+80	59.64	52.97	6.71	6' 8 $\frac{1}{2}$ "
30+05	59.92	53.33	6.59	6' 7 $\frac{1}{2}$ "

5475
101
E. ST.
N. ST.

9th St - Prof L.

Sta	Elev	Grad	Cut	man	
30+30	60.21	54.70	6.51	6'6 $\frac{1}{2}$ "	14473 1.00
+55	60.54	54.06	6.48	6'5 $\frac{3}{4}$ "	
+80	61.94	54.42	6.56	6'6 $\frac{3}{4}$ "	St. D.
31	61.29	54.71	6.58	6'7"	D.P.T.
+20		55.00			
+40					
+60					
+85					
32+0					
+35					
+60					
+85					
33+10					
+35					
+60					
+85					
34+10					
+35					
+60					
+80					
35					

End of Johnsons contract

to Line D. St.

S. Line to St.

to St

9 St. North of D. St.
Sta Elev Gradient

35+20

+40

+65

+90

36+15

+40

+65

+90

37+15

+40

+65

+90

38+15

+40

+60

+80

39

+20

+45

+70

+95

N. Line of E. St.

S. Line of P. St.

B. St.

M. Line of B. St.

9th St North of L.

Sta Elev Grade Cent.

40+20

+45

+70

+95

41+20

+45

+70

+95

42+20

+40

+60

+80

43

+25

+50

+75

44

+25

+50

+75

45

S. Line A. St.

A. St.

N. Line A. St.

9th St North of L.

Sta Elev Grade Lev. t.

45725

+50

+75

46

+20

+40

+60

+80

47405

+30

+55

+80

48405

+30

+55

+80

49405

+30

+55

+80

50

S. Line Ash

Ash

N Line Ash

S. Line of Buckle

10th St Curve Magn Line to N. 10th St

Sta Elev Grade Cont.

0	14.36	2.23	12.11	12	1 3/8
+14	13.74	4.15	9.59	9	7/8
+20	14.06	4.96	9.10	9	1 1/4
+26	14.10	5.78	8.32	8	3/4
+35	14.68	7.00	7.68	7	8/8

24x6 F 22' main of center of 10th St

= 1 CVL S St

9th St North of L¹

Sta	Elev	Grade	cont.
-----	------	-------	-------

	55+15		
0	+40		
+14	+65		
+20	+90		
+26	56+15		
+33	+40		
	+65		
	+90		
	57+15		
	+40		

11th 31' from
Sta 18' met 12

10th L¹

0	Y		
+14	PE		
+20			
+26			
+32			
+39	PT		

PT e N of N 22





38 3 0000 7495

266
 340
 304 5690
 360 31
 342 590
 180

38

1700 0799 1400

5.48
 11 16
 16.69
 2 73
 15.89

6/66
 11

14

20
 30

159 5
 156
 670.5
 3.4
 156.

TABLE of Decimal parts of a FOOT for each Inch and Sixteenth of an Inch.

IN.	0	1	2	3	4	5	6	7	8	9	10	11
0	000	083	167	250	333	417	500	583	667	750	833	917
$\frac{1}{8}$	005	089	172	255	339	422	505	589	672	755	839	922
$\frac{1}{4}$	010	094	177	260	344	427	510	594	677	760	844	927
$\frac{3}{8}$	016	099	182	266	349	432	516	599	682	766	849	932
$\frac{1}{2}$	021	104	187	271	354	437	521	604	687	771	854	937
$\frac{5}{8}$	026	109	193	276	359	443	526	609	693	776	859	943
$\frac{3}{4}$	031	115	198	281	365	448	531	615	698	781	865	948
$\frac{7}{8}$	036	120	203	286	370	453	536	620	703	786	870	953
$\frac{1}{8}$	042	125	208	292	375	458	542	625	708	792	875	958
$\frac{1}{4}$	047	130	214	297	380	464	547	630	714	797	880	964
$\frac{3}{8}$	052	135	219	302	385	469	552	635	719	802	885	969
$\frac{1}{2}$	057	141	224	307	391	474	557	641	724	807	891	974
$\frac{5}{8}$	062	146	229	312	396	479	562	646	729	812	896	979
$\frac{3}{4}$	068	151	234	318	401	484	568	651	734	818	901	984
$\frac{7}{8}$	073	156	240	323	406	490	573	656	740	823	906	990
1	078	161	245	328	411	495	578	661	745	828	911	995

Entered according to act of Congress, in the year 1874, by Edward Denny & Co. in the Clerk's Office of the District Court of the United States, for the Northern District of California.