" " " IVY LANE. 28.

499½

F.B. 499½

I.N.D.

187.00 Elev

25 D St

MICROFILMED
DEC 11 1964

20' South of N line

Capp's Eng—

Stat	Rod	Ground Elev. (183.20)	Sewer grade	cut	A	B
0.0	12.40	170.80	167.00	3.80		
25	11.94	171.26	167.33	3.93	+20.5	+22.5
50	10.92	172.28	167.66	4.62	+41.0	+39.0
75	10.09	173.11	168.00	5.11		
1+00	8.74	174.46	168.33	6.13	0+97.5	0+95.5
25	7.71	175.49	168.66	6.83		
50	6.77	176.43	169.00	7.43	1+50	1+48
75	5.38	177.82	169.33	8.49		
2+00	4.38	178.82	169.66	9.16		175.25
+7.86	4.33	178.87	169.76	9.11		2+05
+15.72	4.29	178.91	169.87	9.04		
+23.58	4.58	178.62	169.97	8.65		
+31.44	4.50	178.70	170.07	8.63		2+32
+39.30	4.28	178.92	170.17	8.75		
+47.16	4.74	178.46	170.28	8.18		
+55+02	4.46	178.74	170.38	8.36		
+62.88	4.42	178.78	170.48	8.30		
+70.54	4.94	178.26	170.59	7.67		
+78.40	5.04	178.16	170.69	7.47		2+78
3+03	3.61	179.59	171.02	8.57		
+28	3.79	179.41	171.35	8.06		
						3+30

25th st sewer Oct 25th 1897

177.10 B.M.
6.10
183.20

From stat. 0 to stat. 3+78, grade = 1.32%

T. P. ℄ West line 25th street B.C.

E.C. center 25th E.C.

180.29
179.50
.79
12
9.48

25th st sewer

183.20
2.33
180.87
5.91
186.78
2.14
184.64
5.92
190.56

Stat	Rod	Ground Elev	Sewer Grade	Cut	L	R	
+53	2.35	180.85	171.68	9.17			
+78	2.91	180.29	172.00	8.29	3+	179.50 3+83	S line F
4+18	2.33 (186.78)	180.87	172.49	8.38			Center
4+58	6.11	180.67	172.94	7.73		4+58	N line F
+83	6.11	180.67	173.23	7.44			
5+08	5.85	180.93	173.52	7.41		5+08	
+33	5.45	181.33	173.82	7.51			
+58	5.21	181.57	174.11	7.46		5+57	
+83	4.96	181.82	174.40	7.42	5+83		
6+08	4.53	182.25	174.69	7.56		6+08	
+33	4.55	182.23	174.98	7.25			
+58	4.28	182.50	175.27	7.23		6+57	
+83	3.96	182.82	175.57	7.25			
7+08	3.86	182.92	175.86	7.06		7+08	
+33	3.48	183.30	176.15	7.15			
+58	3.20	183.58	176.44	7.14		183.50	S line Est
+98	2.69	184.09	176.91	7.18			Center
8+38	2.14 (190.56)	184.64	177.38	7.26			N line Est
+63	5.64	184.92	177.67	7.25			
+88	5.27	185.29	177.96	7.33			
9+13	5.10	185.46	178.26	7.20			

From S 3+78 to park line
the grade of sewer is 1.17%

177.10
6.88
183.98
3.69
180.29

193.73
6.40
187.33

25th St Sewer

190.56
3.16
187.40
6.33
193.73

Stat.	Rod	Ground Elev.	Sewer grade	cut	W	E.	
+38	5.07	185.49	178.55	6.94			
+63	4.88	185.68	178.84	6.84	9+64		
+88	4.60	185.96	179.13	6.83		9+87	
10+13	4.60	185.96	179.42	6.54			
+38	4.45	186.11	179.72	6.39		10+38	
+63	4.20	186.36	180.00	6.36			
+88	3.89	186.67	180.30	6.37		10+87	
11+13	3.60	186.96	180.59	6.37			
+38	3.16 (193.73)	187.40	180.88	6.52		187.00	S line D St
11+78	6.09	187.64	181.36	6.28			Center
12+18	5.46	188.27	181.83	6.44		12+14	W line D St
+43	5.41	188.32	182.12	6.20			
+68	5.22	188.51	182.41	6.10		12+65	
+93	4.82	188.91	182.71	6.20			
13+18	4.69	189.04	183.00	6.04		13+16	
+43	4.58	189.15	183.29	5.86	13+41 (61)		
+68	4.27	189.46	183.58	5.88		13+67	
+93	4.14	189.59	183.87	5.72			
14+18	3.70	190.03	184.17	5.86		14+18	
+43	3.55	190.18	184.46	5.72			
+68	3.33	190.40	184.75	5.65		14+68	

25th St Sewer

1598
140
1738

1978
98
2076

Stat	Rod	Ground Elev	Sewer Grade	cut Cut			
+93	2.85	190.88	185.04	5.84			
15+18	2.74	190.99	185.34	5.65		○ 191.00 15+23	S line C st
+58	2.01	191.72	185.81	5.91			Center
+98	1.72 (196.69)	192.01	186.27	5.74			N line C st
16+23	4.43	192.26	186.56	5.70			
+48	4.20	192.49	186.85	5.64			
+73	4.03	192.66	187.15	5.51			
+98	3.84	192.85	187.44	5.41			
17+23	3.46	193.23	187.73	5.50			
+48	3.11	193.58	188.02	5.56	17+38	17+36	6" c/s
+73	2.71	193.98	188.31	5.67			
+98	2.49	194.20	188.61	5.59			
18+23	2.25	194.44	188.90	5.54			
+48	2.01	194.68	189.19	5.49			
+73	1.72 (201.74)	194.97	189.48	5.49			
+98	6.46	195.28	189.77	5.51		○ 196.00 19+03	S line B st
19+38	5.82	195.92	190.24	5.68			Center
+78	5.22	196.52	190.71	5.81		19+66	N line B st
20+03	4.92	196.82	191.01	5.81			
20+28	4.62	197.12	191.30	5.82		20+26	
+53	4.30	197.44	191.59	5.85			
+78	3.94	197.80	191.89	5.91		20+76	

193.73
2.27
191.46 B.M.
5.23
196.69
1.72
194.97
6.77
201.74

m Elec Mast Cor 25th Est

25th Street Sewer

					L	R	
21+03	3.60	198.14	192.18	5.96	21+03		
+28	3.21	198.53	192.47	6.06		21+28	
+53	2.78	198.96	192.76	6.20			
+78	2.35	199.39	193.06	6.33		21+67	
22+03	1.92	199.82	193.35	6.47			
+28	6.92 (206.97)	200.05	193.64	6.41		22+28	
+53	6.63	200.34	193.93	6.41			
+78	6.30	200.67	194.22	6.45		201.00	S line A st
23+18	6.02	200.95	194.69	6.26			Center
+58	5.40	201.57	195.17	6.40	(4") 28+46	28+44	N line A st
+83	5.05	201.92	195.46	6.46			
24+08	4.72	202.25	195.75	6.50			
+33	4.57	202.40	196.05	6.35	24+40	24+42	
+58	4.10	202.87	196.34	6.53			
+62					End of pipe		
+71			196.50			203.00	Park line

206.97
4.91
202.06 on top grade stake at NW cor A - 25th st

201.74
1.92
199.82
7.15
206.97
3.90
203.07 on top grade stake West line 25th - Park line

113
380
50
548

10.99
1.25
9.74

+	41						
4.22	207.29			203.07	BM		
			4.42	202.87			
			4.32	202.97			
			10.99	196.30		Lower lip of Pipe at Flush tank	
			9.74	197.55			
			9.74	197.55			
			9.49	197.80			
			9.24				

Walnut Ave Sewer

Stat	Rod	El.	Sewer Grade	Cut		
	(290.25)					Flush tank
0+0	10.86	279.39	276.00	3.39		280.00
25	10.45	279.80	275.90	3.90		
50	10.05	280.20	275.80	4.40	+72	
75	9.43	280.85	275.70	5.15	4" Y North	
1+00	8.81	281.46	275.60	5.86	+74 - 6" Y South	
25	8.22	282.03	275.50	6.53		
25' 30	~~8.05~~	~~282.20~~	—	—		
50	7.83	282.42	275.39	7.03		
75	7.46	282.79	275.29	7.50	1+78 - 4" Y South	
2+00	6.98	283.27	275.19	8.08		
25	6.30	283.95	275.09	8.86		
50	5.96	284.29	274.99	9.30		
75	5.58	284.67	274.89	9.78	+75 4" Y South	manhole
80 ⊙		284.74	274.87	9.87		⊙ =
3+00	5.30	284.95	274.79	10.16		285.80
25	5.03	285.22	274.70	10.52		
50	4.77	285.48	274.59	10.89	+51 6" Y North	
75	4.53	285.72	274.49	11.23	+53 6" Y South	
4+00	4.40	285.85	274.39	11.46		
25	4.14	286.11	274.29	11.82		
50	3.93	286.32	274.18	12.14		
75	3.66	286.59	274.08	12.51	4" Y South	
					+72 4" Y North	

288.61

Walnut Ave Sewer Jan 13th 98

Capps

S 0+0 = West line 2nd Horton

spikes set 4' South of Center

283.36 BM
6.89
290.25

285.41
1.45
283.96
5.99
289.95

West line 3rd in Loma Grande

S 2+80 = West line 3rd in Horton

Walnut Ave Sewer

Stat	Rod	El	Sewer Grade	Cut		
5+00	3.48	286.76	273.98	12.78		
25	3.82	286.94	273.88	13.06		
50	3.10 (291.15)	287.15	273.78	13.37	+55 4" Y South	
75	3.92	287.23	273.68	13.55		
6+00	4.40	286.75	273.58	13.17		
25	4.57	286.58	273.47	13.11		
40	4.76	286.44	273.42	13.02 out	+46 6" Y S.	manhole 286.75
50	4.84	286.41	273.37	13.04		
75	5.33	285.82	273.27	12.55	+82 6" Y North	
7+00	5.52	285.63	273.17	12.46	+19 6" Y North	
25	5.78	285.43	273.07	12.36		
50	5.74	285.41	272.97	12.44	+48 4" Y South	
75	6.10	285.05	272.87	12.18		
8+00	6.37	284.78	272.77	12.01		
B.C 25	6.64	284.51	272.67	11.84		
45	6.38 (290.90)	284.52	272.63	11.89	+42 4" Y North	
55	6.47	284.43	272.59	11.84		
65	6.50 (288.92)	284.40	272.55	11.85		
75	4.95	283.97	272.51	11.46		
9+09	4.47	284.45	272.37	12.08		

75
34
109

491.15
258
288.57 on BM Cor 4th

290.90
234
288.56

289.95
298
286.97
3.93
290.90
650
284.40
452
288.92

290.25
310
287.15
4.00
291.15

East line 4th in Horton

West line 5th street

Grade of Sewer 0.405' = 100' = .00405 ft

Elev sewer at ℄ line Walnut 272.22

5th Street Extension Jan 13 98

Spikes set 4 ft West - 4' South of ℄ Center of Street

0+0 = South line Walnut

North line Walnut

Stat	Rod	El.	Sewer Grade	Cut		
	(287.89)					
0+0	3.48	284.41	272.22	12.19'		
25	3.53	284.36	272.31	12.05		
50	3.73	284.16	272.40	11.76'		
80 ⊙	3.95	283.94	272.51	11.43'		manhole ⊙ 284.00
1+00	4.07	283.82	272.58	11.24'	+86 Y W +88 Y E	
25	4.16	283.73	272.67	11.06'	1+26 Y W	
50	4.46	283.43	272.76	10.67'	1+52 Y E	
75	4.60	283.29	272.85	10.44'	1+77 Y W	
2+00	4.79	283.10	272.94	10.16'	2+01 Y E	
25	4.99	282.90	273.03	9.87'	2+25 Y W	
50	5.15	282.74	273.12	9.62'		6" Y East
75	5.40	282.49	273.21	9.28'		
3+00	5.60	282.29	273.30	8.99'		
25	5.78	282.11	273.39	8.72'		
50	5.92	281.97	273.48	8.49'		
75 ⊙	6.03	281.86	273.57	8.29'		manhole ⊙ 281.25
4+00	6.29	281.60	273.66	7.94'		
25	6.52	281.37	273.75	7.62		
	(284.51)					
50	3.34	281.17	273.84	7.33		
75	3.53	280.98	273.93	7.05'		
5+00	3.74	280.77	274.03	6.74'		

288.61 B.M.
1.96
290.57
6.21
284.36
3.53
287.89
6.52
281.37
3.14
284.51

Grade ℄ Sewer = 0.36 ft per 100 ft

5th Street Extension

Stat	Rod	El.	Sewer Grade	Cut		
25	3.89	280.62	274.11	6.51'		
50	4.03	280.48	274.21	6.27'		
75	4.39	280.12	274.30	5.82'		
6+00	4.39	280.12	274.39	5.73'		
25	4.55	279.96	274.49	5.47'		
50	4.79	279.72	274.57	5.15'		
T.P. 70	4.98	279.53	274.64	4.89'		T.P.
76.28	4.96	279.55	274.66	4.89'		
82.56	4.94	279.57	274.68	4.89'		
88.85	5.00	279.51	274.71	4.80'		
95.13	5.09	279.42	274.73	4.69'		
7+01.41	5.17	279.34	274.75	4.59'		
07.69	5.05	279.46	274.78	4.68'		
13.98	4.93	279.58	274.80	4.78'		
20.26	4.79	279.72	274.82	4.90'		
26.54	4.65	279.86	274.84	5.02'		Manhole
32.83 EC.	4.60	279.91	274.86	5.05'		E.C. ⊙ 280.00
50.	4.17	280.34	274.92	5.42'		
75	3.23	281.28	275.02	6.26'		
8+00	2.68	281.83	275.11	6.72'	7+91 Y South.	
25	1.91	282.60	275.20	7.40'		
50	5.00	(287.98) 282.98	275.29	7.69'		

284.51
1.91
282.60
5.38
287.98

(80' diam Circ 251.32) chord on line 6.283'

(72' diam Circ 226.19) chord on spikes 5.655'

B.C. 40' Radii deflection Ang 4° 30'

Total length of Curve 62.83 ft

Grade of Sewer = 0.3614 per 100 ft

Center Brookes ~~Center~~ and West line 5th st

5th st Extension

Stat	Rod	Elev	Sewer Grade	Cut		
75	4.64	283.34	275.38	7.96'	8+57 North 8+59 South	} 6"
9+00	3.74	284.24	275.47	8.77'		
25	3.70	284.28	275.56	8.72'		
50	3.74	284.24	275.65	8.59'		
75	3.98	284.00	275.74	8.26'		
10+00	4.04	283.94	275.83	8.11'		
10+17.8	4.23	283.75	275.89	7.86'	Manhole O 283.50	East line 4th st
50	4.69	283.29	276.00	7.29'		
75	5.22	282.76	276.10	6.66'		
11+00	4.98	283.00	276.19	6.81'		
25	5.90	282.08	276.28	5.80'		
50	5.47	282.51	276.37	6.14'		
75	6.07	281.91	276.46	5.45'		
B.C. 12+00	5.10	282.88	276.55	6.33'	B.C.	30' Radii
04.74	5.82	282.16	276.57	5.59'		
9.42	6.34	281.64	276.58	5.06'		
14.13	6.68	281.30	276.60	4.70'		
18.85	6.61	281.37	276.62	4.75'		
23.56	6.47	281.51	276.63	4.88'		
28.27	5.52	282.46	276.65	5.81'		
33.00	—	—	—			

322' 17.8'

25'

Grade of Sewer 0.3614' per 100 ft

5th St Extension

47
25
12

Stat	Rod	Elev.	Sewer Grade	Sewer grade		
37.71	5.80	282.18	276.68	5.50'		
42.40	5.82	282.16	276.70	5.46'		Manhole ⊙ E.C. 280.75
EC 47.12	6.87	281.11 (286.41)	276.72	4.39'		
72	5.89	280.52	276.81	3.71'		
+97	6.11	280.30	276.90	3.40'		
13+22	6.28	280.13	276.99	3.14'		
+47	6.40	280.01	277.08	2.93'		
+72	6.50	279.91	277.17	2.74'		
+97	6.68	279.73	277.26	2.47'		
14+22	6.66	279.75	277.35	2.40'		
+47	6.65	279.76	277.44	2.32'		
+72	6.29	280.12	277.53	2.59'		
+97	6.13	280.28	277.62	2.66'		
15+22	6.33	280.08	277.71	2.37'		
+47 ⊙	6.11	280.30	277.80	2.50'		Manhole ⊙ 281.87
+72	6.30	280.03 280.11	277.89	2.14 2.22'		
+97	6.15	280.26 (287.03)	277.98	2.28'		
16+22	6.32	280.71	278.07	2.64'		
+47	5.76	281.27	278.16	3.11'		
+72	5.23	281.80	278.25	3.55'		
+97	4.40	282.63	278.34	4.29'		
17+22	3.98	283.05	278.43	4.62'		

287.98
1.68
286.30
6.62
292.92
5.05
287.87
4.31
292.18
288.61
3.57 = check on B.M. Cor Walnut - 4th

284.53
3.85
281.08

287.98
3.76
284.22 = B.M. Spk in tel pole N.E. Cor Brookes Ave - 4th st

Curve 30 Radii
Centre line Alley. North Side Brookes.
Length of chord on line sewer = 4.712'
" " " " " Spikes = 5.34'
Def ang = 4° 30' 10 deflections

3.85
4.46
4.68
4.84
4.94
5.04
5.24
5.21
5.21
4.84
4.69
4.89
4.66
4.90
4.71
4.25
3.69
3.15
2.33
1.91

284.22 B.M.
2.19
286.41
6.15
280.26
6.77
287.03

Grade of Sewer = 0.3614' per 100 ft

5th St Extension

288.43
5.8
282.63

Stat	Rod	Elev	Sewer Grade	Cut			Check Rod	
+47	4.25	282.78	278.52	4.26'			2.18	
+72	4.74	282.29	278.61	3.68'			2.67	
+97	5.02	282.01	278.70	3.31'			2.95 (284.93)	
18+22	4.59	282.44	278.79	3.65'			6.01	
+47	3.69	283.34	278.88	4.46'		South	5.10	Thornton
+77	4.46	282.57	278.99	3.58'		Center	5.88	
19+07 ⊙	4.39	282.64	279.10	3.54'	Manhole ⊙ 283.00	North	5.80	Thornton
+32	4.24	282.79	279.19	3.60'			5.65	
+57	3.89	283.14	279.28	3.86'			5.29	
+82	3.74	283.29	279.37	3.92'			5.15	
20+07	3.69	283.34	279.46	3.88'			5.10	
+32	3.58	283.45	279.55	3.90'			4.99	
+57	3.83	283.20	279.64	3.56'			5.25	
+82	3.43	283.60	279.73	3.87'			4.84	
21+07	3.90	283.13	279.82	3.31'			5.31	
+32	3.51	283.52	279.91	3.61'			4.94	
+57	3.62	283.41	280.00	3.41'			5.04	
+82	(289.88) 6.22	283.66	280.09	3.57'			4.79	
22+07 ⊙	6.22	283.66	280.18	3.48'	Manhole ⊙ 284.75		4.78	
+32	6.07	283.81	280.27	3.54'			4.63	
+57	5.85	284.03	280.36	3.67'			4.42	
+82	5.71	284.17	280.45	3.72'			4.28	

287.03
3.62
283.41
6.47
289.88

Check level
288.43
6.01
282.42
2.51
284.93

Grade of Sewer = 0.3614' per 100 ft.

5th St Extension

Stat	Rod	Elev	Sewer Grade	Cut		Check Rod
23+07	5.70	284.18	280.54	3.64'		4.27
+32	5.38	284.50	280.63	3.87'		3.95
+57	5.02	284.86	280.72	4.14'		3.58 (288.43)
+82	5.05	284.83	280.81	4.02'		7.09
24+07	4.35	285.53	280.90	4.63'		6.39
+32	4.33	285.55	280.99	4.56'		6.37
+57	3.49	286.39	281.08	5.31'		5.54
+82	3.00	286.88	281.17	5.71'		5.05
25+07	2.91	286.97	281.27	5.70'	South	4.95 Robinson
+37	2.10	287.78	281.37	6.41'		4.15
+67 ⊙	2.05 (293.28)	287.83	281.49	6.34'	North	4.09 Robinson
+92	4.94	288.34	281.58	6.76'		3.57
26+17	4.83	288.45	281.67	6.78'		Corned
+42	4.59	288.69	281.76	6.93'		Corned
+67	4.84	288.44	281.85	6.59'		3.47
+92	5.14	288.14	281.94	6.20'		3.79 (291.90)
27+17	4.88	288.40	282.03	6.37'		3.33
+42	5.24	288.04	282.12	5.92'		3.68
+67 ⊙	5.05	288.23	282.21	6.02'		3.51
+92	4.99	288.29	282.30	5.99'		3.44
28+17	5.12	288.16	282.39	5.77'		3.57
+42	5.43	287.85	282.48	5.37'		3.88

Manhole ⊙ 286.75

Manhole ⊙ 287.00

Check level
291.72
3.33
288.39
3.51
291.90
7.09
284.81
3.62
288.43

289.88
2.05
287.83
5.45
293.28

Grade of Sewer = 0.3614' = 100 ft

5th st Extension

291.22
3.97
287.25 on Dodsons Porch

Stat	Rod	Elev.	Sewer Grade	Cut		Check Rod
+67	5.75	287.53	282.57	4.96'		4.23
+92	5.80	287.48	282.66	4.82'		4.25
29+17	6.36 (291.22)	286.92	282.75	4.17'		4.82
+42	3.90	287.32	282.84	4.48'		4.41
+67	4.55	286.67	282.93	3.74'		5.07
+83 [ ]	4.56	286.66	283.00	3.66'	Flush [ ] 287.00	Slinger 5.07 (291.72)

Check level
289.88 BM
4.43
294.31
7.04
287.27
4.45
291.72

293.28
6.36
286.92
4.30
291.22
3.70
287.52
6.58
294.10
4.21
289.89

3.66
.75
2.91

286.66
4.74
291.40
6.72
284.68 peg
driven North side
Dodsons house

286.66
4.89
291.55
283.00
8.55

291.55
8.70
282.85

Grade of Sewer = 0.8614' = 100 ft

Extension of Walnut Ave — Sewer up the Alley Bet 2nd 3rd
Jan 26 1898

Stat	Rod	Elev.	Sewer Grade	Cut		
+.25		(286.55)	279.00			
0+0	3.65	282.90	278.85			
25	3.57	282.98	278.69			
50	3.66	282.89	278.69			
75	3.89	282.66	279.54			
1+00	4.05	282.50	[illegible]			
25	4.23	282.32	[illegible]			
50	4.63	281.92	[illegible]			
75	4.92	281.63	[illegible]			
2+00	5.47	281.08	[illegible]			
25	5.31	281.24	[illegible]			
50	5.20	281.35	[illegible]			
75	5.57	280.98	[illegible]			
3+00	5.22	281.33	[illegible]			
25	5.49	281.06	[illegible]			
50	5.78	280.77	[illegible]			
75	5.49	(285.41) 279.92	[illegible]			
4+00	5.64	279.77	[illegible]			
B.C 25	6.37	279.04	[illegible]		B.C	S 4+25 North line Walnut
+31.28	6.48	278.93				
+37.56	7.54	277.87				Curve 40' Radii
+43.84	6.90	278.51				Chord on curve 6.28'
+50.12	6.50	278.91				

Void See Page 18

(279.39)

279.38
6.03
285.41

283.36 B.M
3.36
286.72
7.34
279.38
7.17
286.55

Grade = 0.617 per 100'

Stat.	Rod	Elev.	Sewer Grade	Cut					
+50.4	6.21	279.20							
+62.70	5.88	279.53							
+69.00	No Stat.								
+75.24	5.71	279.70							
+81.52	5.67	279.74							
+87.80	5.60	279.81	275.85			E.C.	this Stat. is 40' ft East of Center line of alley		

Void See page 18

Walnut Ave Extension

up the Alley Bet 2nd & 3rd

Jan 26 1898

Station	Rod	Elev	Sewer Grade	Cut
	(288.15)			
0+0	5.05	283.10	279.00	4.10
	(286.55)			
+25	3.65	282.90	278.85	4.05
50	3.57	282.98	278.69	4.29
75	3.66	282.89	278.54	4.35
1+00	3.89	282.66	278.39	4.27
25	4.05	282.50	278.23	4.27
50	4.23	282.32	278.08	4.24
75	4.63	281.92	277.93	3.99
2+00	4.92	281.63	277.77	3.86
25	5.47	281.08	277.62	3.46
50	5.31	281.24	277.47	3.77
75	5.20	281.35	277.33	4.02
3+00	5.57	280.98	277.17	3.81
25	5.22	281.33	277.02	4.31
50	5.49	281.06	276.87	4.19
75	5.78	280.77	276.71	4.06
	(285.41)			
4+00	5.49	279.92	276.56	3.36
25	5.64	279.77	276.41	3.36
B.C. 50	6.37	279.04	276.26	2.78
+56.28	6.48	278.93	276.22	2.71
62.56	7.54	277.87	276.18	1.69
68.84	6.90	278.51	276.15	2.36

manhole ⊙

279.
280.1
5.9

282.90
5.25
288.15
5.05
283.10

283.36 B m
3.36
286.72
7.34
279.38
7.17
286.55

Grade per 100' = 0.608'

4.50
1.49
3.01

B.C. Curve 40' Radii North line Walnut.
Chord on Curve 6.28'
Total length of Curve 62.8 ft

Walnut Ave Extension

Stat	Rod	Elev	Grade	Cut
		(285.41)		
+75.12	6.50	278.91	276.11	2.80
81.40	6.21	279.20	276.07	3.13
87.70	5.88	279.53	276.03	3.50
93.96	not		275.99	3.74
5+00.24	5.71	279.70	275.96	3.74
+06.52	5.67	279.74	275.92	3.82
+12.80	5.60	279.81	275.88	3.93

Extension of Sewer up the alley Bet 4th - 5th from Brooks

Sta	Stat	Rod	Elev	Sewer Grade	Cut	
			(288.54)			
37.	0+0 B.C	5.31	283.23	275.56	7' 8 1/16" 7.67	0+0 is "Y" on Main sewer 124' West of West line of 5th (Curve 18.5 Radius)
42	+10	4.75	283.79	275.61	8' 2 3/16" 8.18	
EC 4	+20	5.31	283.23	275.67	7' 6 3/4" 7.56	(Points set 2) West Center
	+30 EC	4.80	283.74	275.72	8' 0 1/4" 8.02	
+	+41.5	4.28	284.26	275.78	8' 5 3/4" 8.48	N line Brookes & Center line of alley
13+	+66.5	4.40	284.14	275.91	8' 2 3/4" 8.23	
+	+91.5	4.91	283.63	276.04	7' 7 1/8" 7.59	
+	1+16.5	5.48	283.06	276.17	6' 10 11/16" 6.89	
+	1+41.5	5.77	282.77	276.31	6' 5 1/2" 6.46	
14+	1+66.5	6.46	282.08	276.44	5' 7 11/16" 5.64	
+	1+91.5	6.65	281.89	276.57	5' 3 7/8" 5.32	
+	2+16.5	6.64	281.90	276.70	5' 2 3/8" 5.20	Manhole

Sewer Grade 0.53' = 100'

Chk F.M.S. May 12th 1898

284.22
4.32
288.54

Preliminary Rods	Stat		Y.S
(288.90)		B.M. 284.22	
84.30 4.60	North line Brookes	4.68	
		288.90	
283.70 5.20	50	4.14	
		284.76	
282.30 6.30	1+00	7.96	
		292.72	
282.00 6.90	50		
281.40 7.50	2+00		
280.90 8.00	50		
280.60 8.30	3+00		
281.20 7.70	50		
281.20 7.70	4+00		
281.50 7.40	50		
282.20 6.70	5+00		
284.00 4.90	50		
(292.72)			
283.80 8.90	6+00	S line Thornton	
285.80 6.90	30	C	
284.70 8.00	0+0	N	
285.30 7.40	50		
286.30 6.40	1+00		
286.50 6.20	50		
286.90 5.80	2+00		
287.20 5.50	50		
287.50 5.20	3+00		
288.00 4.70	50		

B. S.	F. S.
4.68	4.14
7.96	3.82
5.44	4.43
18.08	12.39
12.39	
5.69	

Extension of Sewer up the alley Bet 4th-5th Sts from Brookes to University Ave

Stat	Rod	Elev	Sewer Grade	Cut					
							288.40 / 4.30	4+00	
							288.20 / 4.50	50	
							288.10 / 4.00	5+00	
							288.90 / 3.80	50	
							289.00 / 3.70	6+00	S line Robinson
							288.80 / 3.90	30	C
							288.90 / 3.80	0+0	N
							(294.34) 288.90 / 5.40	50	
							288.70 / 5.60	1+00	
							289.20 / 5.10	50	
							289.70 / 4.60	2+00	
							289.60 / 4.70	50	
							289.40 / 4.90	3+00	
							290.40 / 3.90	50	
							288.90 / 5.40	4+16	S line University

26' South N line Trevert

292.72
3.82
288.90
5.44
294.34
4.43
289.91 on BM
284.22
5.68

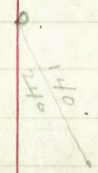
Ex 5' University

Extension of Sewer up the alley Bet 4th & 5th Sts. from Brooks.

Stat	Rod	Elev	Sewer grade	Cut					

Monday 21st Feb. 1898

	+	H I	−	Elev			
						BM Elev M	
	8.35	199.81			191.46		
			0.93	198.88			Edge of bank west line 25th Ave alley
	10.12	209.00					
			13.0	196.00	195.00	1.0	West line 25th Ave alley
+50			11.7	197.3	95.3	2.0	
1			10.4	198.6	95.7	2.9	
+50			8.2	200.8	96.1	4.7	
2			5.2	203.8	96.4	7.4	
+50			4.6	204.4	96.7	7.7	
3			5.4	203.6	97.0	6.6	
+50			7.2	201.8	97.4	4.4	
4			9.7	199.3	97.7	1.6	
+40			11.1	197.9	198.00	0.0	
			13.8	195.2	.10	38.3	
						3.8	



56.25
55 33
11158
55.79

59.32
5 97
53.35
3.85

56.50
3.85
52.65

Feb. 23rd 1898 –

306
282
24

Sta	+	HI	–	Elev	BM	
						13+10
	2.76	63.02			60.26	
			6.75	56.27		
			6.30	56.72		
			8.1	54.92		
			10.0	53.02		
					53.54	
	5.78	59.32				
			6.87	52.45		
			6.67	52.65		
			2.82	56.50		
Manhole cover			3.18	56.14		
			3.07	56.25	3.60	3'7¼"
			3.70	55.62	3.17	3'2"
				5245		
				317		

56.14
318
59.32

at Flush tank North side 60' N.
" Wall where sewer connection (property)
" Flush tank South side. (19' S of Prop)
" 42' south of Flush-tank

57
56.25
11325
56.62
5566
11228
56.14

56.00
5533
11133
5566

22nd St. Sewer

	3.61	14460			140.99				
0			5.07	139.53	135.7	3.83	Prop. Line		Surface
0			8.00	136.60			"	"	Ditch
+50			5.73	138.87	135.6	3.27			Sur.
+50			8.57	136.03					Dit
1+00			5.99	138.61	135.5	3.1			Sur
1+00			9.19	135.41					Ditch
1+50			6.39	138.21					Sur.

Lowering the Sewer on 13th Street, Bet "E" & "G" St May 1898

Stat	Rod	Elev.	Void	Sewer Grade	Cut
	(58.99)				
0+0	5.49	53.50	53.69	48.24	5.26'
25	5.10	53.89	53.41	48.51	5.38'
50	4.73	54.26	53.14	48.78	5.48'
75	4.43	54.56	52.87	49.05	5.51'
1+00	3.96	55.03	52.60	49.33	5.70
25	3.65	55.34	52.30	49.60	5.74
50	3.40	55.59	52.05	49.87	5.72
75	2.92	56.07	51.78	50.15	5.92
2+00	2.75	56.24	51.50	50.42	5.82
25	2.52	56.47	51.23	50.69	5.78
50	2.29	56.70	50.96	50.96	5.74
	(63.31)				
75	6.79	56.52	50.69	51.23	5.29
3+00	6.60	56.71	50.42	51.50	5.21
25	6.34	56.97	50.15	51.78	5.19
50	6.28	57.03	49.87	52.05	4.98
75	6.13	57.18	49.60	52.30	4.88
4+00	5.99	57.32	49.33	52.60	4.72
25	5.62	57.69	49.05	52.87	4.82
50	5.48	57.83	48.78	53.14	4.69
75	5.24	58.07	48.51	53.41	4.66
5+00	5.00	58.31	48.24	53.69	4.62

Grade 1.09' to 100'

Stat 0+0 = 80 ft North of the North line of "G" Street, & Connect with the Old sewer

Spikes set 3' West of Centre

53.54 B.M. on "G" St
5.45
58.99
2.29
56.70
6.61
63.31
3.02
60.29

Stat 5+00 is 100 ft South of South line East

Good situation for board

Sewer West on Robinson Ave, to alley Bet 2nd & 3rd, then up alley to University Ave.

June 18-98

Stat	Rod	Elev.	Sewer Grade	Cut					
	(292.53)								
0+0	4.70	287.80	281.37						S 0+0 is Center Robinson & Alley Bet 3rd & 4th
50	5.30	287.20							
1+00	6.60	285.90							
50	7.60	284.90							
2+00	8.70	283.80							
50	9.60	282.90							
3+00	10.80	281.70							
	(286.93)								
+54	6.20	280.70							turn North into alley Bet 2nd & 3rd
4+00	6.30	280.60							
50	5.20	281.70							
5+00	5.60	281.30							
50	5.70	281.20							
6+00	5.20	281.70							
50	4.70	282.20							
7+00	4.70	282.20							
50	4.90	282.00							
	4.10	282.80							South line University

West on Robinson Ave

Alley Bet 2nd & 3rd

288.88 B.M.
3.65
292.53
10.90
281.63
5.30
286.93

Sewer East from 5th St. on Ivy Lane

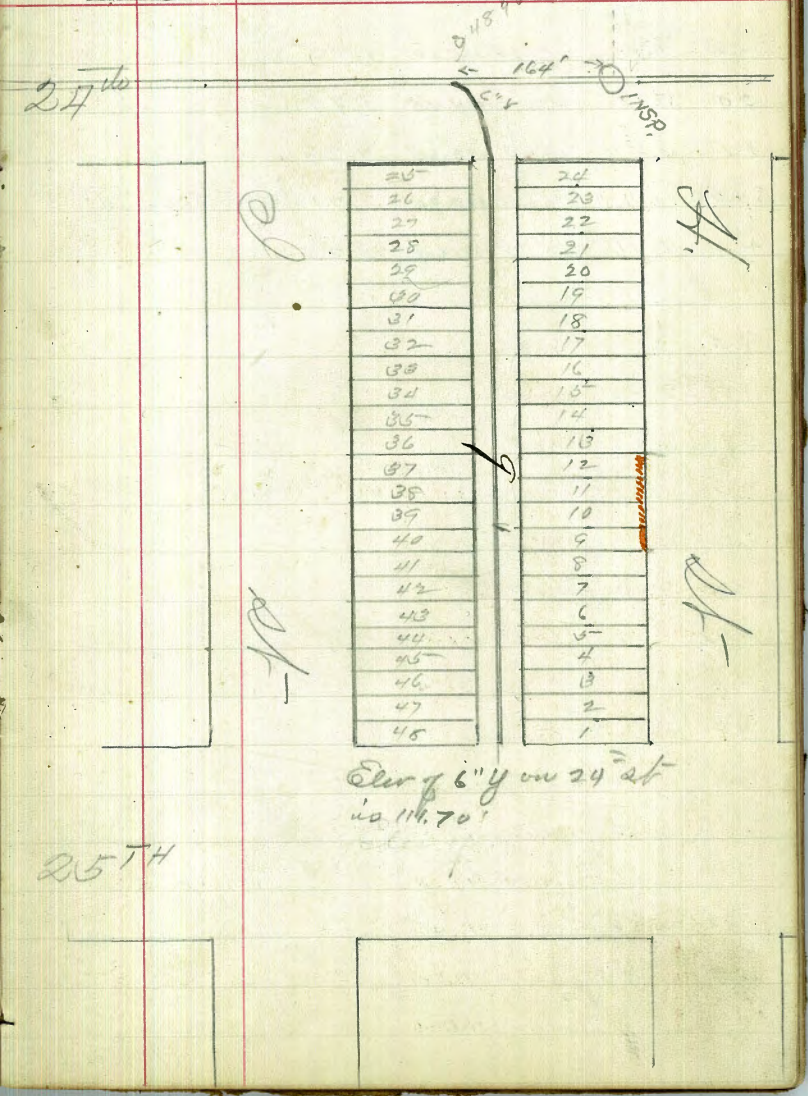
Stat	Rod (290.42)	Elev.	Sewer Grade	Cut	North	South			
27.5	1.63	288.79	282.00	6.79	284.69	B.M. on Walnut ave.			Center of 6th St.
0+0	2.95	287.47	281.11	6.36	5.73 / 290.42	← H.I.			West Line 6th St.
+25	4.58	285.84	280.31	5.53					0+02 Y 6" North 0+00 Y 6" South
+50	7.00	283.42	279.49	3.93					
+75	9.34	281.08	278.67	2.41	0+75	0+73	4" Y		
1+00	10.64	279.78	277.85	1.93					
+25	11.10	279.32	277.03	2.29	1+26	1+24	4" Y		
+50	10.26	280.16	276.22	3.94					
+75	9.10	281.32	275.40	5.92					
+89.5	8.05	282.37	274.90	7.47					East line of 5th St.
2+04.5	8.34	281.99	274.41	7.58					= B.C. R = 25'
+14.5	8.27	282.20	274.08	8.12					
+24.5	8.03	282.39	273.76	8.63					
+34.5	7.93	282.49	273.44	9.05					
+43.5	7.74	282.68	273.12	9.56					= E.C.

Extension of the sewer up the alley in Beks & Kimball add

Oct 19-1898

Stat	Rod	Elev.	Sewer Grade	Cut	
0+0	(148.13) 4.31	143.82			0+0 WEST LINE 25th St
25	4.30	143.83			
50	4.52	143.61			
75	5.18	142.95			
1+00	6.20 (141.88)	141.93			
25	0.66	141.22			
50	1.89	139.99			
75	2.43	139.45			
2+00	3.17	138.71			
25	4.65	137.23	131.50	5.73	
50	6.03 (135.28)	135.85	129.84	6.01	
75	0.47	134.81	128.18	6.63	
3+00	2.07	133.21	126.51	6.70	
25	3.20	132.08	124.85	7.23	
50	5.19 (127.93)	130.09	123.19	6.90	
75	0.15	127.78	121.52	6.26	
4+00	2.36	125.57	119.86	5.71	
25	4.17	123.76	118.20	5.56	BREAK GRADE
50	5.22	122.71	117.45	5.26	
75	5.96 (121.35)	121.97	116.70	5.27	
5+00	0.95	120.40	115.95	4.45	

Starts out 3' north of Center of Alley



Stat	Rod	Elev	Sewer grade	Cut	
25	1.70	119.65	115.20	4.45	
50	3.11	118.24	114.45	3.79	
75	3.41	117.94	113.65	4.29	
6+00	4.74	116.61	112.90	3.71	East line 24th st
+	6.36	114.99	111.64	3.35	

111.47 B.M Cor 24th J.
9.88
121.35 H.1
0.95
120.40
7.53
127.93 H1
0.15
127.78

point in 24th st sewer at 6" J. —

127.78
7.50
135.28
0.47
134.81
7.07
141.88
0.66
141.22
6.91
148.13

Change of Sewer off of 3rd to side hill in Blk 247 Horton

Stat	Rod	Elev.	Sewer Grade	Cut
	(169.87)			
0+0	0.95	168.92	164.30	4' 7½"
20	1.19	168.68	164.06	" "
40	1.43	168.44	163.82	" "
60	1.67	168.20	163.58	" "
80	1.91	167.96	163.34	" "
1+00	2.15	167.72	163.10	" "
20	2.39	167.48	162.86	" "
40	2.63	167.24	162.62	" "
60	2.87	167.00	162.38	" "
80	3.11	166.76	162.14	" "
2+00	3.35	166.52	161.90	" "
20	3.59	166.28	161.66	" "
40	3.83	166.04	161.42	" "
60	4.07	165.80	161.18	" "
80	4.31	165.56	160.94	" "
3+00	4.55	165.32	160.70	" "
20	4.79	165.08	160.46	" "
40	5.03	164.84	160.22	" "
60	5.27	164.60	159.98	" "
80	5.51	164.36	159.74	" "
4+00	5.75	164.12	159.50	" "

Change of Sewer off of 3rd to side hill in Blk 247 Horton

Nov 11-98

Stat 0+0 is 23.5 feet South of South line of Day St, on 3rd –

Assumed Elev of Stat 0+0 is 164.30 at grade line of pipe

4.95 set stakes 4 ft above sewer grade

4.00

.95

24

1.19

24

1.43

24

1.67

24

1.91

24

2.15

24

2.39

24

2.63

24

2.87

24

3.11

24

3.35

24

3.59

24

3.83

24

4.07

164.30

5.57

169.87

Grade of Sewer

.24' to each 20 ft fall

4.07

24

4.31

24

4.55

24

4.79

24

5.03

24

5.27

24

5.51

24

5.75

24

5.99

– 54+00 on Hawthorne is 30 feet East of East line of Second St

Eighth ward sewer

62.40

Jan 12-1899

Stat	Rod (71.56)	Elev	Sewer grade	Cut
0+0	6.91	64.65		
25	6.99	64.57		
50	6.61	64.95		
75	6.70	64.86		
1+00	6.53	65.03		
+30	5.78	65.78	62.00	3.78
0+0	5.58	65.98	61.89	4.09
25	5.35	66.21	61.78	4.43
50	5.90	65.66	61.67	3.99
75	6.03	65.53	61.56	3.97
1+00	6.84	64.72	61.46	3.26
25	6.79	64.77	61.35	3.42
50	6.15	65.41	61.24	4.17
75	5.88	65.68	61.14	4.54
2+00	6.44	65.12	61.03	4.09
25	6.91	64.65	60.93	3.72
50	6.49	65.07	60.82	4.25
75	7.03	64.53 (68.54)	60.72	3.81
3+00	3.90	64.64	60.61	4.03
25	3.76	64.78	60.51	4.27
50	3.92	64.62	60.40	4.22
75	3.78	64.76	60.30	4.46

g = 0.4212

S0+0 is on Union 100' East of East line of 27th st, marcy

From S0+0 to vault at N.E. Cor School grounds 110 ft. Elev of ground 67.76

71.56
3.80
67.76

65.47 B.M
6.09
71.56
7.03
64.53
4.01
68.54

Cor 27 - Union Ave

East line 27th
Center 27
West line 27

8th Ward Sewer extension

93
77.4
15.1

77.4
15.4
928

Stat	Rod	Elev	Sewer grade	Cut
4+00	4.00	64.54	60.19	4.35
+25	4.15	64.39	60.09	4.30
50	5.00	63.54	59.98	3.56
77.4 △	4.99	63.55	59.87	3.68
+93	5.10	63.44	59.80	3.64
5+18	5.30	63.24	59.69	3.55
+43	5.14	63.40	59.59	3.81
+68	5.01	63.53	59.48	4.05
+93	4.64	63.90	59.38	4.52
6+18	4.45	64.09	59.27	4.82
+43	4.16	64.38	59.17	5.21
+68	4.01	64.53	59.06	5.47
+93	3.91	64.63	58.96	5.67
7+18	3.65	64.89	58.85	6.04
+43	4.65	63.89	58.75	5.14
+68	5.06	63.48	58.64	4.84
+93	5.37	63.17 (70.22)	58.54	4.64
8+18	6.97	68.25	58.43	4.82
+43	6.85	63.37	58.33	5.04
+68	6.67	63.55	58.22	5.33
+93	6.64	63.58	58.11	5.47
9+18	6.50	63.72	58.01	5.71

68.54
5.37
6317
7.05
7022

△ angle point on Union Alley

Stat	Rod	Elev	Sewr grade	Cut
+43	6.00	64.22	57.90	6.32
+68	5.56	64.66	57.80	6.86
	4.55	65.67	57.67	8.00
0+0	4.53	65.69	57.55	8.14
25	4.55	65.67	57.44	8.23
50	4.31	65.91	57.33	8.58
75	4.24	65.98	57.23	8.75
1+00	4.14	66.08	57.12	8.96
	4.17	66.05	57.02	9.03
	3.93	66.29	56.91	9.38
	3.77	66.45	56.81	9.64
2+00	3.69	66.53	56.70	9.83
	3.45	66.77 (73.71)	56.60	10.17
	5.78	67.93	56.49	11.44
	4.69	69.02	56.39	12.63
3+00	3.81	69.80	56.28	13.52
	3.24	70.47	56.17	14.30
	3.24	70.47	56.07	14.40
	3.13	70.58	55.96	14.62
4+00	3.19	70.52	55.86	14.66
	3.69	70.02	55.75	14.27

	70.22
	3.45
East line South 26th	66.77
	6.94
Center	73.71
West line South 26th	

Check bet 25 - 24 - 23

67.31 on point East line S 25

2.06
69.37
6.46
62.91
2.53
65.44

73.71
6.40
67.31
1.94
69.25
6.33
62.92
2.39
65.31

Stat	Rod	Elev.	Sewer grade	Cut		
	3.65	70.06	55.65	14.41		
	3.80	69.91	55.54	14.37		
5+00	4.77	68.94	55.44	13.50		
	5.07	68.64	55.33	13.31		
	5.57	68.14	55.23	12.91		
	6.05	67.66	55.12	12.54		
6+00	6.40	67.31 (69.25)	55.02	12.29		
30	2.94	66.31	54.89	11.42		
0+0	3.16	66.09	54.76	11.33		
25	5.16	64.09	54.66	9.43		
50	5.39	63.86	54.55	9.31		
75	5.53	63.72	54.45	9.27		
1+00	5.52	63.73	54.34	9.39		
25	5.44	63.81	54.24	9.57		
50	5.15	64.10	54.13	9.97		
75	4.50	64.75	54.03	10.72		
2+00	4.99	64.26	53.92	10.34		
25	5.82	63.43	53.82	9.62		
50	6.33	62.92 (65.31)	53.71	9.21		
75	3.39	61.92	53.60	8.32		
3+00	4.56	60.75	53.50	7.25	Break.	

Check Rod	(69.37)	
2.06		E line S 25 st
		Center
3.28	66.09	W line S 25 st
5.29	64.08	
5.51	63.86	
5.66	63.71	
5.65	63.72	
5.57	63.80	
5.29	64.08	
4.62	64.75	
5.10	64.27	
5.93	63.44	
6.46	62.91 (65.44)	
3.53	61.91	
4.70	60.74	

Stat	Rod	Elev	Desin grade	Cut		
25	5.66	59.65	52.93	6.72		
50	6.49	58.82	52.35	6.47		
75	1.75	(59.25) 57.50	51.77	5.73		
4+00	2.75	56.50	51.19	5.31		
+25	3.78	55.47	50.61	4.86		
+50	4.81	54.44	50.03	4.41		
75	6.13	53.12	49.45	3.67		
5+00	6.75	52.50	48.87	3.63		
25	6.56	52.69	48.29	4.40		
50	6.46	52.79	47.71	5.08		
75	6.74	52.51	47.13	5.38		
6+00	6.73	52.52	46.55	5.97	g = 2.02	
30	7.12	52.13 (53.50)	45.86	6.27		
04.0	2.40	57.10	45.16	5.94		
25	3.00	50.50	44.58	5.92		
50	3.52	49.98	44.00	5.98	Break	
75	3.65	49.85	43.85	6.00		
1+00	4.00	49.50	43.70	5.80		
25	4.60	48.90	43.54	5.36		
50	4.97	48.53	43.38	5.15		
75	4.96	48.54	43.22	5.32		
2+00	5.21	48.29	43.06	5.23		

Check Rod		
5.80	59.64	
6.63	58.81 (60.75)	
3.25	57.50	
4.27	56.48	
5.30	55.45	
6.32	54.43 (57.38)	
4.28	53.10	
4.90	52.48	
4.72	52.66	
4.62	52.76	
4.90	52.48	
4.89	52.49	
5.29	52.09	
6.33	51.45 (53.50)	
3.07	50.43	
3.58	49.92	
3.71	47.79	
4.06	49.44	
4.66	48.84	
5.03	48.47	
5.02	48.48	

Check
65.42
6.63
58.81
1.94
60.75

6.29
50.71

60.75
3.25
57.50

57.38

6.13
54.43
2.95
57.38
6.33
51.05
2.46
53.51

65.31
7.80
57.51
1.74
59.25
7.12
52.13
1.37
53.50

Elm S 24"
Birch
West S 24"

6.35
4.9
2.35

Stat	Rod	Elev	Sewer grade	Cut			Check Rod		
25	5.00	48.50	42.90	5.60			5.28	48.22	
50	5.31	48.19	42.74	5.45			5.06	48.44	
75	5.08	48.42	42.58	5.84			5.37	48.13	
3+00	5.52	47.98	42.42	5.56			5.14	48.36	
25	6.10	47.40	42.26	5.14			5.58	47.92	
50	6.23	47.27	42.10	5.17			6.17	47.33	
75	6.15	47.35	41.94	5.41			6.31	47.19	
4+00	6.42	47.08 (49.47)	41.78	5.30			6.22	47.28 (49.64)	
25	2.72	46.75	41.63	5.12			2.64	47.00	
50	3.03	46.44	41.47	4.97			2.97	46.67	
75	3.64	45.83	41.31	4.52			3.28	46.36	
5+00	4.12	45.35	41.15	4.20			3.89	45.75	
25	4.54	44.93	40.99	3.94			4.37	45.27	
50	4.93	44.54	40.83	3.71			4.79	44.85	= E line 23rd
75	4.97	44.50	40.67	3.83			5.17	44.47	
6+00	4.90	44.57	40.51	4.06			5.22	44.42	E line S 23rd
	5.20	44.27	40.31	3.96			5.14	44.50	Center
	4.71	44.76	40.11	4.65					W line S 23rd
	5.55	43.92	39.95	3.97					
	5.80	43.67	39.79	3.88					
	5.67	43.80	39.64	4.16					

check
53.50
6.22
47.28
2.36
49.64

53.50
6.42
47.08
2.39
49.47

Stat	Rod	Elev	Sewer grade	Cut
1+00	5.46	44.01	39.48	4.53
	5.02	44.45	39.32	5.13
	5.65	43.82	39.16	4.66
	5.51	43.96	39.00	4.96
2+00	5.20	44.27	38.84	5.43
	4.50	44.97 (49.99)	38.68	6.29
	4.79	45.20	38.52	6.69
	4.32	45.67	38.36	7.31
3+00	4.00	45.99	38.20	7.79
	3.80	46.19	38.04	8.15
	3.70	46.29	37.88	8.41
	3.70	46.29	37.73	8.56
4+00	3.36	46.63	37.57	9.06
	4.65	45.34	37.41	7.93
	5.32	44.67	37.25	7.42
	5.75	44.24	37.09	7.15
5+00	6.00	43.99	36.93	7.06
	6.20	43.79	36.77	7.02
	6.32	43.67	36.61	7.06
	6.23	43.76	36.45	7.31
6+00	6.75	43.24	36.29	6.95

49.47
4.50
44.97
5.02
49.99

East line S 22 ch

Stat	Rod	Elev	Sum grade	cut		
	7.20	42.79	36.10	6.69		
0+0	6.28	43.71 (46.39)	35.91	7.80		
	3.25	43.14	35.75	7.39		
	3.84	42.55	35.59	6.96		
	4.22	42.17	35.43	6.74		
1+00	4.61	41.78	35.27	6.51		
	4.96	41.43	35.11	6.32		
	5.06	41.33	34.95	6.38		
	5.33	41.06	34.80	6.26		
2+00	5.13	41.26	34.64	6.62		
	5.58	40.81	34.48	6.33		
	5.80	40.59	34.32	6.27		
	5.89	40.50	34.16	6.34		
3+00	5.98	40.41	34.00	6.41		Break
	5.89	40.50	33.25	7.25		
	6.00	40.39	32.50	7.89		
	6.15	40.24	31.75	8.49		
4+00	6.35	40.04	31.00	9.04		
	7.11	39.28 (39.33)	30.25	9.03		
	1.17	38.16	29.50	8.66		
	2.37	36.96	28.75	8.21		

Centre S 22nd
W. line S 22nd

49.99
6.28
43.71
2.68
46.39
7.11
39.28
0.05
39.33

Stat	Rod	Elev	Sewer grade	Cut		
5+00	3.23	36.10	28.00	8.10		
	2.83	36.50	27.25	9.25		
	3.65	35.68	26.50	9.18		
	7.70	31.63	25.75	5.88		
6+00	11.68	27.65 (28.81)	25.00	2.65		
	6.60	22.21	24.72	-2.51		
0+0	9.11	19.70 (20.63)	24.44	-4.74		
+25	4.59	16.04	24.20	-8.16		
+50	5.24	15.39	23.96	-8.57		
+75	5.02	15.61	23.73	-8.12		
1+00	skip			—		
+25	6.85	13.78	23.26	-9.48		
+50	6.75	13.88	23.02	-9.14		
+75	7.28	13.35	22.78	-9.43		
2+00	7.40	13.23	22.55	-9.32		
+25	7.48	13.15	22.31	-9.16		
+50	7.67	12.96	22.07	-9.11		
+75	7.93	12.70	21.84	-9.14		
3+00	7.70	12.93 (21.60)	21.60	-8.67		
+25	8.34	13.26	21.37	-8.11		
+50	8.38	13.22	21.13	-7.91		

g = 0.944

39.33
11.68
2765
116
2881
911
1970
0.93
2063
538
1525
6.35
21.60

Elm S 21st
Center
W line S 21st

top of Eberhart's Barn roof 10' above this station

top Barn roof 9 ft above this station

turn out of alley, west to Center line 17th st

Stat	Rod	Elev	Desired grade	Cut
+75	8.33	13.27	20.90	-7.63
4+00 P.C	8.99	12.69	20.66	-7.97
+25	9.97	11.63	20.42	-8.79
+50	7.07	14.53	20.19	-5.66
+75 E C	6.23	15.37	19.95	-4.58
5+00	5.37	16.23	19.72	-3.49
+25	3.45	18.15	19.48	-1.33
+50	0.81	20.79 (29.55)	19.24	1.55
6 +75	9.57	19.98	19.01	0.97
6+00	10.00	19.55	18.77	0.78
6+31	1.71	27.84	18.48	9.36

East line 17th St

21.60
0.81
20.79
8.76
29.55

Center line 17th

S line N. St.

29.55
9.60
19.95 Elev top R.R. Rails

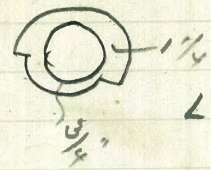
W line West & Center line 17th

20.79
0.99
21.78
8.81
12.97 on Bm Cor 16th Logan

check

4.95+ 375
20

5.99
95
4.04



L = 14.5

f.
9.74
4.95
20) 4.79 (24
40
79
80

400

20) 4.80 (24
40
80

4.79

599
95
504

25 : 80 ∴ × : 25
25
10.25

272.22
25
272.49

284.36
272.49

11.87
13.00
1.13

284.16
272.50

11.66
13.00
1.34

78.76 BW.
9.09
87.85
0.58
87.27
7.47
94.74
8.84
85.90 4

94.74
2.74
92.00

272.22
27
272.49

7.59
6.89
.70

12
7
8.4

8.23
7.59
.64
12
128
64
7.68

285
2
570
140
710

240
840
710
130

99.5
82.0
17.5
2.91
3
8.73
1.46
10.29
82

99.5
82.0
18.15
80.75
1.45
92.20

220
80
200
500

47
164
211

Walnut Ave Sewer
Manhole E line 4th Horton
" W line 3rd " "
Flush tank West line 2nd Horton

279.39
7.00
286.39

Stat	Rod Elev
00	7.00
50	6.40
1+00	5.00
50	4.80
2+00	5.00
50	4.10
3+00	3.60
50	3.50
4+00	3.10
50	3.30
5+00	

Alley

8.23
7.59
.64
12
128
64
7.68

153
147
200

17' N of South line

37 N of S line to prop
30 " " " " "

23' East of west line McKin
96 " " " " "

92
12
1104

5738
633
51,05

5738
489
52,49

135
75
1425
113
295

5738
529
52,09

700
615
185

700
532
168

700
603
197

700
466
234

150
375
1125
70
1825
2

600
240
840
2
1040
2 96
1080
84.91
291
8782
291
9073
291
9364

135
75
1425
70
2125
32
9073
146
9219

285
70
355
2
155
11
166.

170

600
240
840
2
640

46.74
45.17
157

575
95
480

600
240
840
200
640

4964
514
44,50

425
63
488

284.80
285.50
57030
285.15

450
63
513

9' def = 4°30'

94' Cur = 292.16 ft
1/4 " = 73 feet
Stations 7.3 feet