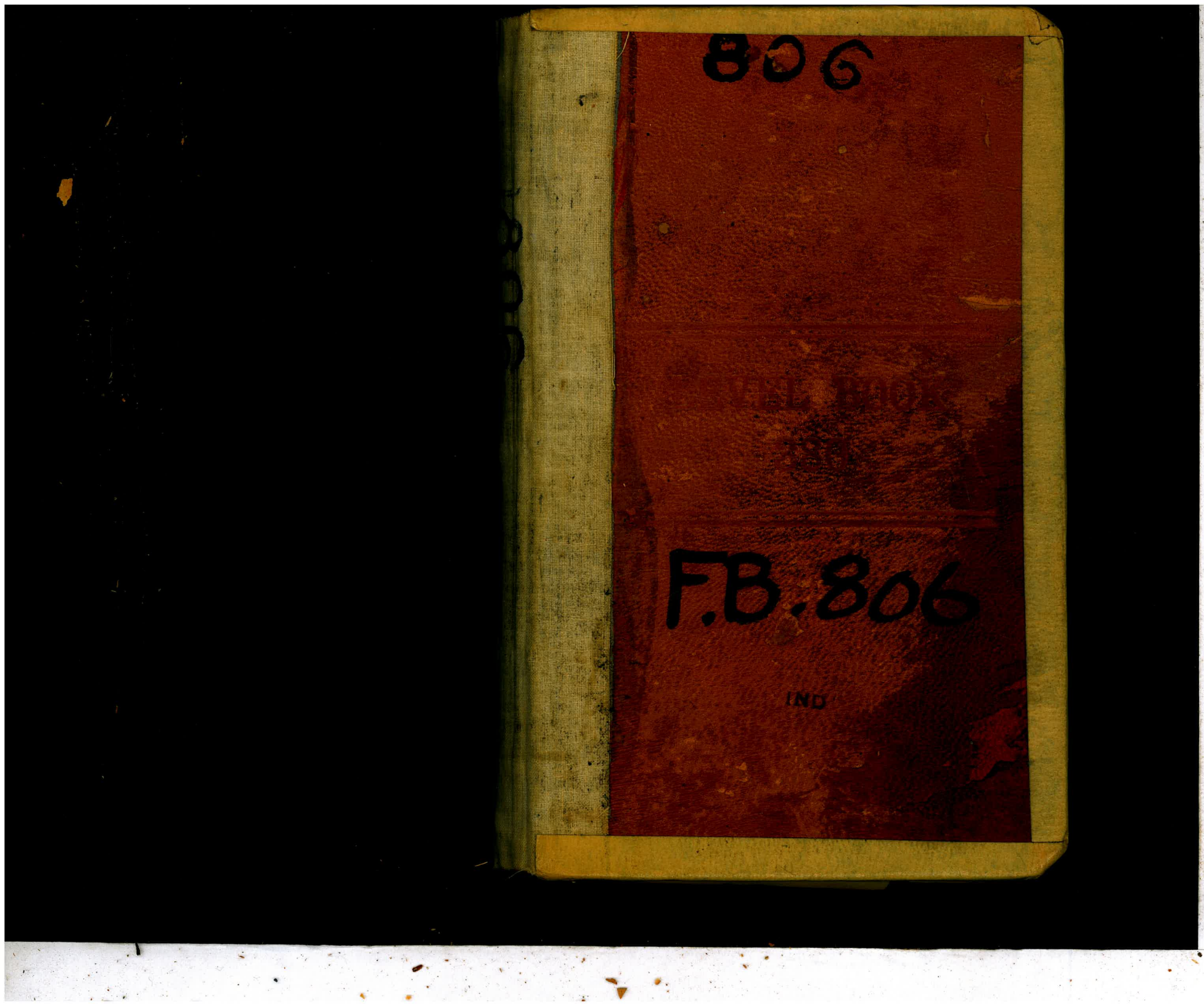

806
F.B.806
IND

MICROFILMED
DEC 15 1964

Sewer extension on 12th from A. to City park.

April 5/11

1

Childs
Taylor
Bunker

Sta.			H.I.	Rod	Ground	Grade	cut
		6 4 7	111.94		105.47	B.M. N.W. cor A & 12th	
0+00	old F.S. So. of A			6.6	105.3	99.00	+ 6.3
+50				5.4	106.5	100.75	5.8
1+00				4.3	107.6	102.50	5.1
+50				2.3	109.6	104.25	5.4
+75				1.31	110.63	105.12	5.5
T.P.		2.24	112.87				
2+02				0.62	112.25	106.07	6.1

3.5% grade

Prel. sewer line in alley bet. main & Colton from 440' east of 31st to

April 5/11 { Childs, Taylor, Bunker

2

Sta			H.I.	Rod	Elev.
J.P.		4.04	48.50		44.46
0+00	F.S. 440' east of east line of 31st			1.95	46.55
+50				1.9	
		11.04	44.46		33.42 B.M.
1+00				2.5	
J.P.		11.04	44.46		33.42 B.M.
+50				0.1	
2+00				0.9	
+50				1.3	
3+00	10 houses			1.8	
+50				2.4	
4+00				3.6	
+50				4.3	
+83	west 13' line of 31st street			4.7	
5+00	west line 31st,			4.8	
+35				6.0	
+50				8.9	
+80	not less than 3' deep			13.0	
J.P.		0.64	32.33	12.77	31.69
6+00				7.41	
+50				13.3	
7+00				10.1	22.2

Sta.			H.I.	Rod	Elev.
			32.33		
7+50				9.0	
8+00				5.2	
J.P.		9.05	40.99	0.39	31.94
+50				8.1	
9+00				3.6	
+50				2.8	
10+00				3.1	
+50				4.3	
11+00				4.5	
+30				6.4	
+50				9.0	
12+00				11.1	
+50				10.6	
J.P.		0.88	29.78	12.09	28.90
+62				3.0	
+78				10.1	
J.P.		0.72	17.93	12.57	17.21
13+00				7.9	
+28				12.3	
+50				9.0	
J.P.		12.45	30.06	0.32	17.61
14+00				1.3	

Cont. from page 2

Sta.		H.I.	Rod	Elev.
J.P.	7.38	36.64	0.80	29.26
14+50			2.6	
15+00			0.9	
+50			3.8	
16+00			9.9	
+20			12.0	
+50	Not less than 4' deep		12.1	24.5
17+00			10.1	
+27			9.3	
+50			7.0	
+76			4.5	
+90			5.0	
+92			6.0	
+94			4.9	
18+00			4.6	
+07.24	hub. center of 29th street		4.21	32.43
+50			4.5	
19+00			5.1	
+50			5.2	

April 6/11 { Childs, Taylor, Bunker 3 3

Sta.		H.I.	Rod	Elev.
20+00		36.64	4.8	
+50			4.4	
J.P.	0.15	32.49	4.30	32.34
21+00			4.4	
+18			9.0	
+50			14.5	
+75			15.7	
22+00			11.8	
+22			5.8	
+50			0.7	
+58			0.1	
J.P.	0.31	32.80	0.00	32.49
23+00			1.2	
+50			3.8	
24+00			7.6	
+33			12.7	
J.P.	2.60	22.80	12.60	20.20
+45			4.6	
+47			6.4	16.4
+50			5.3	
+66.1	hub center of 28th street		4.63	18.17

cont. from page 3

Sta.		H.I.	Rod	Elev.
		22.80		
24+84			5.9	
+86			4.9	
25+00			5.5	
+19			7.1	
+26			9.6	
+44			15.4	
+50			15.6	7.2
+88			15.4	
26+00			11.1	
S.P.	7.15	29.40	0.55	22.25
+40			5.0	
+50			2.8	
27+00			0.8	
+50			1.2	
28+00			1.9	
+50			2.2	
29+00			2.4	
+50			3.1	
30+00			7.1	

April 7/11 { Childs, Taylor, Bumpers

4

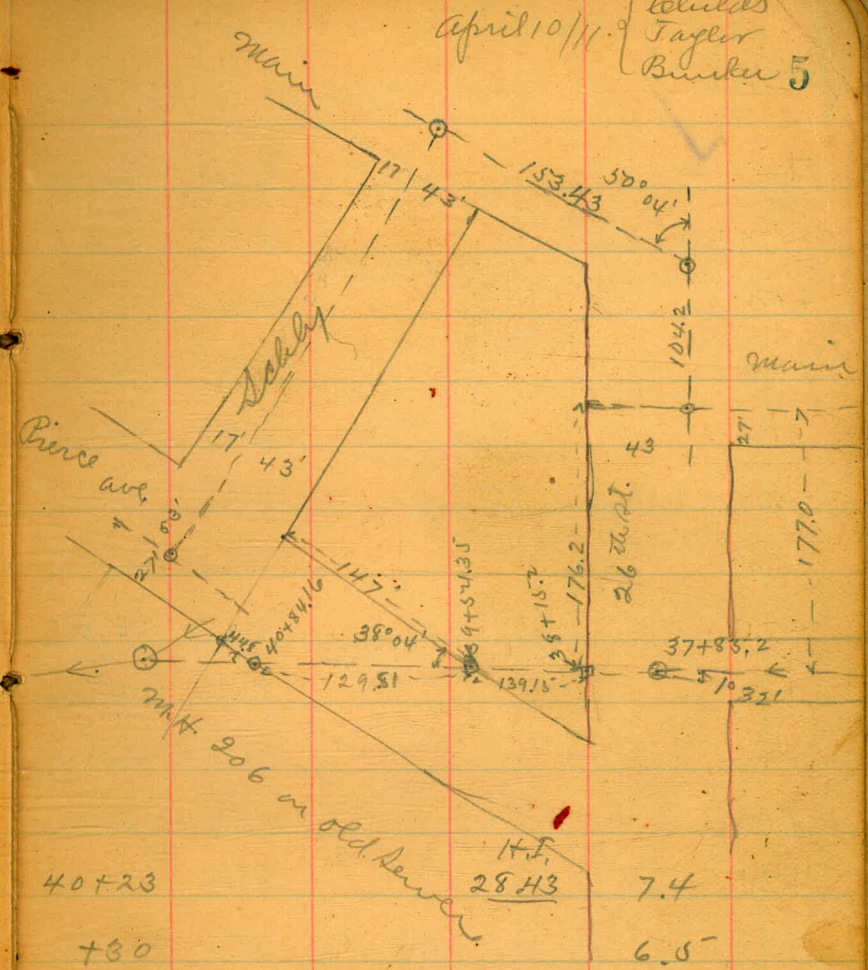
Sta.		H.I.	Rod	Elev.
		18.50		
S.P.	2.09		12.99	16.41
30+50			2.9	
31+00			10.8	
+50			13.7	
+93			6.5	
32+00			4.5	
S.P.	11.90	29.66	0.74	17.76
+26			9.4	
+50			7.9	
33+00			7.0	
+50			6.0	
34+00			5.9	
+50			6.7	
35+00			7.3	
+50			5.7	
+61			5.9	
+77			13.0	16.66
36+00	Elev. Top of Tie		11.8	
+36			11.4	
+50			12.6	

Cont. from page 4

Sta.		H.I.	Rod	Elev
36+61		29.66	12.1	17.6
+81			8.1	
+90			6.6	
37+00			6.5	
+50			6.4	
+72.2 E.			6.1	
+85.2 J.P.	angle 1°32' R. M.H. center 26th 2.86	28.43	4.09	25.57
38+00			3.9	
+15.2	hub west line of 26th street		3.69	
+50			3.3	
+65			2.7	
+81			15.4	
+94			7.7	
39+00			7.7	
+24			5.5	
+50			6.8	
+54.35	hub north line of Pierce ave.		6.95	
40+00			7.3	

April 10/11 { Childs, Taylor, Bunker

5



40+23		7.4
+30		6.5
+50		7.7
+84.16	hub so. line of Pierce ave.	8.83
41+00		8.5
+50		9.0
+74		9.0
+79.26	old M.H.	7.5

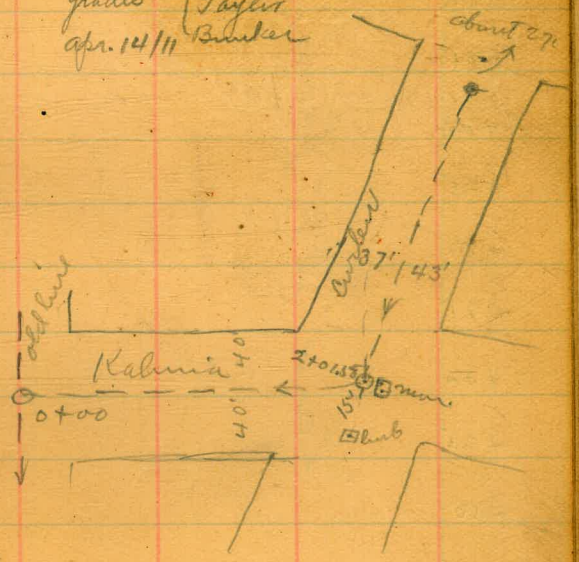
Sewer extension on Kalmia & Curlew from M.H. Center of Kalmia & Union to about 27' so. of Laurel

april 8/11 {Childs, Taylor, Bunker}

Sta.			H.I.	Rod	Ground	Grade	Cut
J.P.			115.16		99.875		
0+00	M.H. center of Kalmia & Union	12.92	125.23	0.24	112.31	107.5	4.8
J.P. +50				11.1	114.1	109.23	4.9
1+00				8.7	116.5	110.97	5.5
+50				6.12	119.11	112.70	6.4
2+01.58	M.H. center of Kalmia & 3' west of center of Curlew.			4.7	120.5	114.5	6.0
+50				3.4	121.8	117.89	3.9
+75				1.83	123.40	119.64	3.8
J.P.		12.88	137.22	0.89	124.34		
3+00				11.0	126.2	121.40	4.8
+25				8.9	128.3	123.14	5.2
+50				6.9	130.3	124.91	5.4
+75				4.9	132.3	126.66	5.6
4+00				3.2	134.0	128.42	5.6
+25				1.45	135.77	130.17	5.6
J.P. +50		8.17	143.94	6.5	137.4	131.93	5.5
+75				4.8	139.1	133.68	5.4
5+00				2.9	141.0	135.44	5.6
+15	deadend about 27' from Laurel.			1.88	142.06	136.5	5.6

112.31
7.85
120.16 H.I.
107.5
12.66
109.23
10.93
110.97
9.19
112.70
7.46
123.40
6.42
129.82 H.I.
114.5
5.66
117.89
11.93
121.40
8.42
124.91
4.91
135.77
5.28
141.05 H.I.
128.42
12.63
131.93
9.12
136.5
4.55

grades apr. 14/11 {Childs, Taylor, Bunker}



Sewer on N. street 30th from N to alley bet. M & L. April 12/11 Childs Taylor Bunker

& last on alley to sta 29+25 east of 32nd.

Sta.			H.I.	Rod	Ground	Grade	Cut
		3.99	74.97		70.98		
T.P. 0+00	M.H. Center 29th			5.9	69.2	63.20	6.0
+25	+29' so. of no. line of N.			5.5	69.6	63.28	6.3
+50				5.4	69.7	63.35	6.4
+75				5.1	70.0	63.42	6.6
1+00				4.6	70.5	63.50	7.0
+25				4.7	70.4	63.57	6.8
+50				4.7	70.4	63.65	6.8
+75				4.6	70.5	63.72	6.8
2+00				4.6	70.5	63.80	6.7
+25				4.5	70.6	63.87	6.7
+50				4.4	70.7	63.95	6.8
+75				4.3	70.8	64.02	6.8
3+00				4.3	70.8	64.10	6.7
+25				4.2	70.9	64.17	6.7
+50				4.4	70.7	64.25	6.5
+75	M.H.			3.3	71.8	64.32	7.5
T.P. 4+00		2.05	77.02	6.04	74.97 / 70.98	64.40	6.7
+25				6.1	71.0	64.47	6.5

Laid 29' from N line

70.98
4.47
75.45 H.I.
63.35
12.10

63.50
11.95

63.65
11.80

63.05

63.80
11.65

63.95
11.50

11.8
5.2
6.6

64.10
11.35

64.25
11.20

64.40
11.05

64.32
11.13

72.83 x
2.55
75.38 H.I.
63.35
12.03
15
88

11.85

63.21

11.88
11.73
11.58
11.43
11.28

64.25
11.13
7
11.06
10.91
10.76
10.61
10.46
10.31

BM 30th + M St
74.97

N.W. Cor
B.P. in return
April 13/11

Childs
Taylor
Bunker

Cont. from page 7

Sta		H.I.	Rod	Ground	Grade	Cut
		77.02				
4+50			6.0	71.1	64.55	6.6
+75			5.9	71.2	64.62	6.6
5+00			5.8	71.3	64.70	6.6
+25			5.7	71.4	64.77	6.6
+50			5.4	71.7	64.85	6.9
+75			5.3	71.8	64.92	6.9
6+00			4.8	72.3	65.00	7.3
+25			4.9	72.2	65.07	7.1
+50			4.8	72.3	65.15	7.2
+75			5.2	71.9	65.22	6.7
7+00			5.3	71.8	65.30	6.5
+25			5.1	72.0	65.37	6.6
+50			4.3	72.8	65.45	7.4
+75			4.1	73.9	65.52	7.5
+84.9	M.H. center of 30th + 29' so. of no. line of N. 7.08	79.84	4.26	72.76	65.55	7.3
I.P. 8+00			7.28	72.56	65.60	7.0
					65.68	
+50			7.2	72.6	65.75	6.9
9+00			6.6	73.2	65.90	7.3

70.98
5.79
76.77 H.I.
64.55
12.22

64.70
12.07

64.85
11.92

65.00
11.77

65.15
11.62

65.30
11.47

65.45
11.32

4.07
72.70 I.P.
4.94
77.64
74.97
2.67

72.83
4.12
76.95 H.I.
65.15
11.80
11.65
11.50

65.55
11.40

74.97
3.66
78.63 H.I.

78.63 H.I.

65.60
13.03

65.75
12.88

65.68
12.95

65.90
12.73

Cont. from page 8

April 13/11 { Schultz, Taylor, Bunker 9

78.63 H.I.

Sta.		H.I.	Rod	Ground	Grade	Cut			
		79.84							
9+50			5.9	73.9	66.05	7.9	66.05 / 12.58		
+64.15	M.H. center alley		5.8	74.0	66 / 66.09	7.9	66.12 / 12.87	66.09 / 12.90	74.97 = B.M. 4.02 78.99 H.I.
+75	bet. M + N.				66.12				
10+00			5.27	74.57	66.2	8.4	66.20 / 12.79		
+50			4.5	75.3	66.35	9.0	66.35 / 12.64		
11+00			4.4	75.4	66.50	8.9	66.50 / 12.49		
+50			4.4	75.4	66.65	8.8	66.65 / 12.57		74.97 = B.M. 4.25 79.22 H.I.
+75					66.72				
12+00			4.2	75.6	66.80	8.8	66.72 / 12.50		
+25					66.87		66.80 / 12.42	66.87 / 12.35	
+50			4.7	75.1	66.95	8.2	66.95 / 12.27		
13+00			4.90	74.94	67.02 / 67.10	7.8	67 / 67.10 / 12.12	67.02 / 12.20	
+44.80	M.H. center alley bet. M + L. 5.13		5.4	74.4	67.18 / 67.23	7.2		67.18 / 12.04	
J.P.		80.10		74.97	B.M. = 30th & m.		67.23 / 11.26		74.97 B.M. 3.52 78.49 H.I.
+75			4.7	75.4	67.35	8.1	67.35 / 11.14		
14+00			6.1	74.0	67.45	6.6	67.45 / 11.04		
+25			6.18	73.92	67.55	6.4	67.55 / 10.94		
+50			5.7	74.4	67.65	6.8			
+73.15	M.H. constructed		5.7	74.4	67.74	6.7	67.74 / 10.75		
15+00			5.6	74.5	67.85	6.7			
+25			5.9	74.2	67.95	6.3	67.95 / 10.54		

4.87 / 74.97 / 79.84

14.15 / .03 / 42.45

4.08 / .03 / 13.44

30 / .04 / 1.20

See 239-62

Cont. from page 9.

April 14/11 { Childs, Taylor, Bunker

Sta.	H.I.	Rod	Grade	Cut
15+50	80.10	6.02	74.08	68.05	6.0
+75		5.8	74.3	68.15	6.2
16+00		5.7	74.4	68.25	6.2
+25		4.9	75.2	68.35	6.9
+50		5.1	75.0	68.45	6.6
+75		4.9	75.2	68.55	6.7
17+00		4.68	75.42	68.65	6.8
+40 M.H.		4.4	75.7	68.81	6.9
+50		4.4	75.7	68.85	6.9
+75		4.3	75.8	68.95	6.9
18+00		4.0	76.1	69.05	7.1
+25		3.5	76.6	69.15	7.5
+50		3.3	76.8	69.25	7.6
+75		3.2	76.9	69.35	7.6
19+00		3.1	77.0	69.45	7.6
+25		3.0	77.1	69.55	7.6
+50		2.7	77.4	69.65	7.8
+75		2.6	77.5	69.75	7.8

7849 H.I.

74.97
4.18
79.15 H.I.

68.15 / 10.34

68.25 / 10.90

68.45 / 10.70

68.65 / 10.50

68.81 / 10.34

68.85 / 10.30

68.35

3.50
75.65 J.P.
6.48
82.13 H.I.

69.05 / 13.08

69.25 / 12.88

69.45 / 12.68

69.65 / 12.48

Apr. 15/11 { Childs, Taylor, Bunker

11

Cont. from page 10

Sta.		H.I.	Rod.	Ground	Grade	cut
		80.10				
20+00			2.7	77.4	69.85	7.6
+05.65	M.H. center of 31st street.		2.6	77.5	69.87	7.6
+25			2.1	78.0	69.95	8.1
+50			2.3	77.8	70.05	7.8
+75			2.42	77.68	70.15	7.5
T.P.	3.32	81.00				
21+00			3.5	77.5	70.25	7.3
+25			3.5	77.5	70.35	7.2
+50			3.9	77.08	70.45	6.7
+75			4.6	76.4	70.55	5.9
22+00			4.6	76.4	70.65	5.8
+25			4.7	76.3	70.75	5.6
+50			4.8	76.2	70.85	5.4
+75			4.9	76.1	70.95	5.2
23+00			5.1	75.9	71.05	4.9
+35	M.H.		4.9	76.1	71.19	4.9
+50			4.96	76.04	71.25	4.8
+75			5.0	76.0	71.35	4.7
24+00			4.8	76.2	71.45	4.8

82.13 H.I.
69.85 / 12.28 — 69.87 / 12.26 — 70.05 / 12.08
70.25 / 11.88 — 70.45 / 11.68 — 70.85 / 9.85 — 71.05 / 9.65
77.08 / 5.05 / 77.08 — 362 / 80.70 H.I. — 71.19 / 9.57 — 71.25 / 9.45
70.65 / 10.05
71.45 / 9.25

Grades. May 11/11 { Childs, Taylor, Bunker

Cont. from page 11

Sta.	H.I.	Rod	Ground	Grade	Cut
	81.00				
24+25		4.7	76.3	71.35	4.8
+50		4.3	76.7	71.65	5.1
+75		3.8	77.2	71.75	5.5
25+00		4.3	76.70	71.85	4.9
+25		4.5	76.5	71.95	4.6
+50		3.9	77.1	72.05	5.1
+75		4.5	76.5	72.15	4.4
26+00		5.48	75.52	72.25	3.3
+25		6.3	74.7	72.35	+2.4
+50		6.0	75.0	72.45	2.6
+66.23	M.H. center of 32nd street	5.6	75.4	72.51	+2.9
27+00		6.6	74.4	72.65	+1.8
+25		6.7	74.3	72.75	+1.6
+50		5.7	75.3	72.85	+2.5
+75		4.74	76.24	72.95	3.3
28+00		3.8	77.2	73.05	4.2
+25		3.5	77.5	73.15	4.4
+50		3.2	77.8	73.25	4.6

80.70 H.I. 71.85 76.70 TP
71.65 8.85 2.92
9.05 79.62 H.I.
72.05
72.25 72.45 7.57
7.37 7.17
73.51 72.65 72.85 73.05 73.25
7.11 6.97 6.77 6.57 6.37

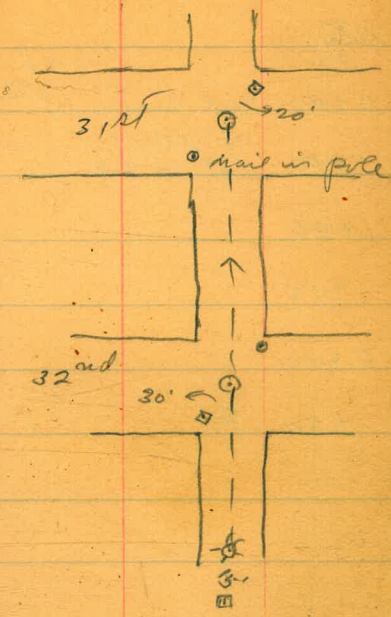
16
.640

Cont. from page 12

Sta.		H.I. 81.00	Rod	Grade	Cut
28+75			3.0	78.0	73.35 4.7
29+00			3.1	77.9	73.45 4.5
+25	F.S. East of 32nd		3.4	77.6	73.58 4.1

79.62 H.I.
73.45
6.17

73.55
6.07



x Levels - for sewer in alley bet. H & I from center of April 19/11 { Childs Tayeur Bunker

15th west. 220'.

Sta.		H.I.	Rod	Elev.	Grade
T.P.	0.85	30.80		29.95	
0+00	M.H. center 15th		4.3	26.5	17.18
+50	& alley going west bet. H & I.		5.0	25.8	
1+00			5.7	25.1	
+50			5.9	24.9	
2+00			5.9	24.9	
+20	F.S.		6.0	24.8	

x

Alley in Blk 18

	4.1.		
0+00	30.59	4.1	26.5
+25		5.1	25.5
50		5.5	25.1
+75		5.8	24.8
1+00		5.6	25.0
+25		6.1	24.5
+50		5.8	24.8
+75		6.1	24.5
2+00		5.7	24.9
+20		5.9	24.7

Shermans Addn. Copied

April 27/11 { Childs, Taylor, Bunker

15

Grade

17.5 = ℄ 15th St.

17.75

18.00

18.25

18.50

18.75

19.00

19.25

19.50

19.70

18.50 / 12.63

19.00 / 12.13

19.50 / 11.63

19.70 / 11.43

29.95
1.18
31.13 H.I.
17.62
13.51

18.00 / 13.13

grades May 1/11 { Childs, Taylor, Bunker

Preliminary sewer line in

Golden Hill add. bet. B & C.

T.P.		1140	202.36		190.96
Sta.			H.I. 202.36	Rod	Elev.
0+00	M.H. center 25th & alley bet B & C.			8.5	193.9
+50				8.4	194.0
1+00				6.8	195.6
+50				5.7	196.7
2+00				4.7	197.7
+50				3.3	199.1
3+00				3.4	199.0
+20				3.6	198.8

B.M. S.W. "C" and 25th B.P. in return 190.96

190.96
10.22
201.18

alley Blk. 3 May 1/11 { Childs, Taylor, Bunker 16

Rate 1.562

Grade	Cut.		
190.0	3.9	190.00 / 11.18 ✓	May 24/11 { Childs, Taylor, Bunker H.I. 201.18
190.62	3.4	190.62 / 10.56 ✓	bottom stakes
191.25	4.4	191.25 / 9.93 ✓	Lockwood Westcott
191.87	4.8	191.87 / 9.31 ✓	May 29-11
192.50	5.2	192.50 / 8.68 ✓	
193.12	6.0	193.12 / 8.06 ✓	
193.75	5.3	193.75 / 7.43 ✓	
194.0	4.8	194.00 / 7.18 ✓	

Sewer in alley bet. M & N from Center of 30th

East to Sta. 12+00

May 31/11 { Childs, Taylor, Bunker

17

Sta.			H.I.	Rod	Ground	Grade	Cut
J.P.		3.62	78.59		74.97		
0+00	M.H. Center 30th St.			4.5	74.1	66.10	8.0
+25				4.9	73.7	66.20	7.5
+50				4.9	73.7	66.30	7.4
+75				4.3	74.3	66.40	7.9
1+00				4.7	73.9	66.50	7.4
+25				5.2	73.4	66.60	6.8
+50				5.2	73.4	66.70	6.7
+75				5.2	73.4	66.80	6.6
2+00				5.0	73.6	66.90	6.7
+25				5.1	73.5	67.00	6.5
+50				4.8	73.81	67.10	6.7
+75				5.2	73.4	67.20	6.2
3+00				5.5	73.1	67.30	5.8
+30	M.H.			5.6	73.0	67.42	5.6
+50				5.1	73.5	67.50	6.0
+75				5.5	73.1	67.60	5.5
4+00				4.96	73.63	67.70	5.9
J.P.		5.98	79.61				
+25				6.5	73.1	67.80	5.3

74.97
4.36
79.33 H.I.

66.30 / 13.03

66.10 / 13.23

66.50 / 12.83

66.70 / 12.63

66.90 / 12.43

67.10 / 12.23

5.52
73.81 J.P.
3.99
77.80 H.I.

67.30 / 10.50

67.42 / 10.38

67.50 / 10.30

67.70 / 10.10

Grades, June 5/11 { Childs, Taylor, Bunker

Cont. - from page 17

May 31/11 { Childs, Taylor, Bunker

18

Sta.		H.I. 79.61	Rod	Ground	Grade	cut
4+50			6.5	73.1	67.90	5.2
+75			6.5	73.1	68.00	5.1
5+00			6.2	73.4	68.10	5.3
+25			6.2	73.4	68.20	5.2
+50			6.0	73.6	68.30	5.3
+75			5.9	73.7	68.40	5.3
6+00			5.8	73.8	68.50	5.3
+25			6.0	73.6	68.60	5.0
+60.96	M.H. center of 31st.		5.4	74.2	68.74	5.5
7+00			5.7	73.9	68.90	5.0
+25			5.8	73.8	69.00	4.8
+50			5.6	74.0	69.10	4.9
+75			4.80	74.81	69.20	5.6
8+00			4.6	75.0	69.30	5.7
+25			4.4	75.2	69.40	5.8
+50			4.2	75.4	69.50	5.9
+75			4.0	75.6	69.60	6.0
9+00			3.5	76.1	69.70	6.4

77.80 H.I.
67.90
9.90

68.10
9.70

73.63
4.78
78.41 H.I.
68.30
10.11

68.50
9.91

68.60
9.81

68.90
9.51

69.10
9.31

68.74
9.67

69.30
9.11

69.50
8.91

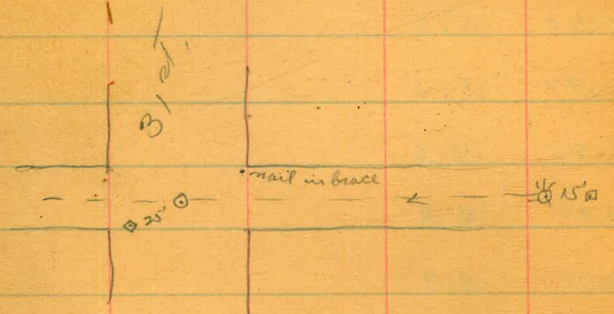
69.70
8.71

grades
June 7/11

{ Childs, Taylor, Bunker

Cont. - from page 18

Sta.		H.I. 79.61	Rod	Ground	Grade	cut
9+25			2.44	77.17	69.80	7.4
+50			3.1	76.5	69.90	6.6
10+00			3.1	76.5	70.10	6.4
+50			4.8	74.8	70.30	4.5
11+00			5.8	73.8	70.50	3.3
+50			5.6	74.0	70.70	3.3
12+00	F.J.		5.0	74.6	70.90	3.7



June 1/11 { Childs, Taylor, Bunker

19

77.17
2.85
80.02 H.I.
69.90
10.12

70.10 / 9.92 70.30 / 9.72
70.50 / 9.52 70.70 / 9.32 70.90 / 9.12

grades. { Childs, Taylor, Bunker

June 8/11

25
20
60
6 00
6 00
1 20
122.0

2.2

Sewer on 30th alley bet. M & L to

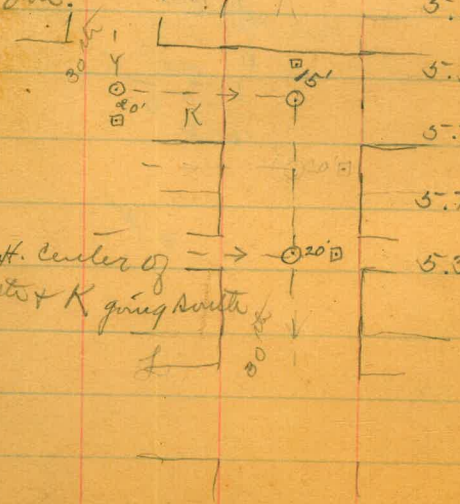
Center of K street.

June 6/11

Childs
Taylor
Bunker

20

Sta.		H.I.	Rod	Ground
T.P.	3.65	78.62		74.97
0+00	M.H. center 30th & alley bet. M & L.		4.1	74.5
+50			4.4	74.2
1+00			4.7	73.9
+50			5.00	73.62
2+00			5.2	73.4
+50			6.3	72.3
3+00			6.7	71.9
+50			7.2	71.4
+79.35	M.H. center alley bet. K & L & center 30th.	76.11	7.5	71.[illegible]
4+00	4.89		5.1	71.[illegible]
+50			5.3	70.8
5+00			5.7	70.4
+50			5.7	70.4
+69.35	M.H. center of 30th & K going south		5.3	70.8



Grade	Cut
67.25	7.2
67.35	6.9
67.45	6.5
67.55	6.1
67.65	5.8
67.75	4.6
67.85	4.1
67.95	3.5
[illegible].01	3.1
[illegible].05	3.0
68.15	2.7
68.25	2.2
68.35	2.1
68.39	2.4

71.22
5.32
76.54 H.I.
68.01
8.53

67.35
9.19

67.45
9.09

67.55
8.99

67.65
8.89

67.75
8.79

67.85
8.69

67.95
8.59

alley line bet. L & K from center of 30th to near 29th.

June 7/11 { Childs, Taylor, Bunker

21

70.01 30th & K. SE.

Sta.			H.I.	Rod	Ground	Grade	cut.
0+00	M.H. center of 30th		78.62	7.5	71.1	68.01	3.1
+25		5.74	76.96	7.40	71.22	68.06	3.1
+50				4.9	72.1	68.11	4.0
+75				5.0	72.0	68.16	3.8
1+00				5.1	71.9	68.21	3.7
+25				4.9	72.1	68.26	3.8
+50				5.8	71.2	68.31	2.9
+75				5.6	71.4	68.36	3.0
2+00				6.05	70.91	68.41	2.5
+29	M.H.?	5.31	76.53	6.2	70.8	68.47	2.3
+50				6.0	70.5	68.55	2.0
+75				6.0	70.5	68.65	1.9
3+00				5.0	71.5	68.75	2.8
+25				4.6	71.9	68.85	3.1
+50				4.2	72.3	68.95	3.4
+75				3.9	72.6	69.05	3.6
4+00				3.7	72.8	69.15	3.7

71.22
5.51
76.73 H.I.
68.11 / 8.62
68.21 / 8.52
68.31 / 8.42
68.41 / 8.32

70.91
6.45
77.36 H.I.
68.55 / 8.81
68.75 / 8.61
68.95 / 8.41
69.15 / 8.21

Grades June 14/11 { Childs, Taylor, Bunker

X

Cont. from page 21

Sta.			H.I. 76.53	Rod	Ground	Grade	cut
4+25				3.6	72.9	69.25	3.7
+50				3.3	73.2	69.35	3.9
+75				2.9	73.6	69.45	4.2
5+00				2.49	74.04	69.55	4.5
T.P.		5.97	80.01				
+25				5.8	74.2	69.65	4.6
+50				5.4	74.6	69.75	4.9
+75				5.2	74.8	69.85	5.0
6+00				5.0	75.0	69.95	5.1
+25				4.4	75.6	70.05	5.6
+50				3.6	76.4	70.15	6.3
+75				3.7	76.3	70.25	6.1
7+00	F.S.			2.9	77.1	70.35	6.8

June 9/11 { Childs, Taylor, Bunker

22

77.36 H.I.
69.35 / 8.01 ✓
69.55 / 7.81 ✓
69.75 / 7.61 ✓
69.95 / 7.41 ✓
70.05 / 7.31 ✓

Grades { Childs, Taylor, Bunker

June 14/11

256-S
6-Reed's Central
79-Powers Lot
N5 1/4 SW 1/4 PL 1153

K st. line from center 30th St. going south to center Hodson.

Sta.		H.I. 76.11	Rod	Ground	Grade	cut
0+00	M.H. center K & 30th going south		5.3	70.8	68.39	2.4
+50			5.2	70.9	68.49	2.4
1+00			4.8	71.3	68.59	2.7
+50			4.5	71.6	68.69	2.9
2+00			4.18	71.93	68.79	3.1
+12.0	M.H. center 30th going north.		4.1	72.0	68.81	3.2

B.M. 75.09 mon. S.E. cor 30th & J.

190
380
47
65

alley line bet. K & J. from 3' west of center 30th to Sta 18+40.45

last of 32nd.

June 9/11 {Childs Taylor Bunker

24

Sta.			H.I.	Rod	Ground	Grade	Cut
T.P.		3.18	78.27		75.09		
0+03	M.H. 3' west center			4.2	74.1	69.63	4.5
0+00	30th						
+25				5.0	73.3	69.73	3.6
+50				5.7	72.6	69.83	2.8
1+00				5.6	72.7	70.03	2.7
+50				5.2	73.1	70.23	2.9
2+00				5.0	73.3	70.43	2.9
+50				5.1	73.2	70.63	2.6
3+00				4.9	73.4	70.83	2.6
+50				4.63	73.64	71.03	2.6
T.P.		4.99	78.63				
4+00				4.6	74.0	71.23	2.8
+35	M.H.			4.5	74.1	71.37	2.7
+50				4.6	74.0	71.43	2.6
5+00				4.7	73.9	71.63	2.3
+50				4.7	73.9	71.83	2.1
6+00				4.5	74.1	72.03	2.0
+50				4.3	74.3	72.23	2.1
7+00				4.2	74.4	72.43	2.0

75.09
3.40
78.49 H.I.

69.83 / 8.66 — 70.23 / 8.26

69.63 / 8.86 — 70.03 / 8.46 — 70.43 / 8.06

70.63 / 7.86 — 70.83 / 7.66 — 71.03 / 7.46

73.64
5.37
79.01 H.I.

71.37 / 7.64 — 71.43 / 7.58 — 71.63 / 7.38 — 71.83 / 7.18

71.23 / 7.78 — 72.03 / 6.98 — 72.23 / 6.78 — 72.43 / 6.58

grades {Childs Taylor Bunker

June 14/11

146

57.64
13
870.64

June 13/11 { Childs, Taylor, Bunker

13' at
13'

Cont. - from page 24.

Sta.		H.I.	Rod	Ground	Grade	cut
		78.63				
7+50			3.31	75.32	72.63	2.7
8+00			3.5	75.1	72.83	2.3
+50			3.3	75.3	73.03	2.3
+70.64 J.P.	M.H. Center 31st. 8.04	83.36	3.4	75.2	73.11	2.1
9+00			7.7	75.32 75.7	73.23	2.5
+50			7.1	76.3	73.43	2.9
10+00			6.4	77.0	73.63	3.4
+50			6.1	77.3	73.83	3.5
11+00			4.76	78.60	74.03	4.6
+50			4.4	79.0	74.23	4.8
12+00	M.H.		2.9	80.5	74.43	6.1
+50			2.6	80.8	74.63	6.2
13+00			2.8	80.6	74.83	5.8
+50			2.1	81.3	75.03	6.3
14+00			1.25	82.11	75.23	6.9
J.P.	5.35	87.46				
+50			4.4	83.1	75.43	7.7
15+00			4.6	82.9	75.63	7.3

79.01 H.I. 72.63 / 6.38 — 72.83 / 6.18 — 73.03 / 5.98 — 73.11 / 5.90

75.32 / 5.97 / 81.29 H.I. — 73.23 / 8.06 — 73.43 / 7.86 — 73.63 / 7.66

73.83 / 7.46 — 74.03 / 7.26 — 78.60 / 2.71 / 81.31 H.I. / 74.03 / 7.28 — 74.23 / 7.08

78.60 / 6.93 / 85.53 H.I. — 74.63 / 10.90 — 75.03 / 10.50

74.43 / 11.10 — 74.83 / 10.70 — 75.23 / 10.30

82.11 / 5.56 / 87.67 H.I. / 75.43 / 12.24

Cont. – from page 25

Sta.	H.I. 87.46 Rod	Ground	Grade	cut
15+31.78 M.K. curb 32nd.	5.6	81.9	75.76	6.1
15+50.	4.9	82.6	75.83	6.8
16+00	5.0	82.5	76.03	6.5
+50	6.0	81.5	76.23	5.3
17+00	6.6	80.9	76.43	4.5
+50	6.2	81.3	76.63	4.7
18+00	6.22	81.24	76.83	4.4
+40 HS P.S.	6.1	81.4	76.99	4.4
+3 Sec Sta. 0+00				

87.67 H.I.
76.03 / 11.64 ✓
76.23 / 11.44 ✓
76.43 / 11.24 ✓
76.63 / 11.04 ✓
32 / 124
82.11 / 5.60 / 87.71 H.I. / 75.63 / 12.08 ✓
75.83 / 11.88 ✓
76.83 / 10.88 ✓
10.72
82.11 / 5.63 / 87.74 H.I. / 75.76 / 11.98 ✓
76.99 / 10.75

1840 ✓
15 32
308

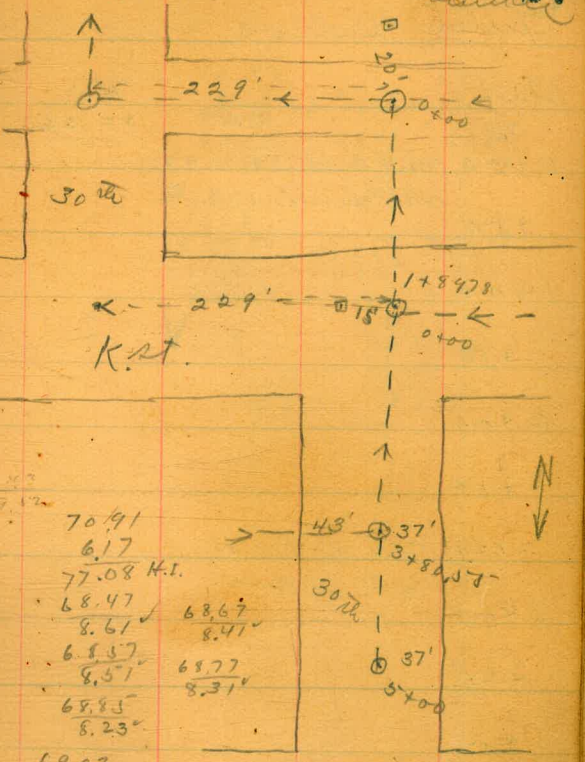
323
308
15

Sewer line from sta. 2+29 on alley line bet. K & L. North to Center of K & up 30th to J.

June 15/11 — Childs, Taylor, Bunker

2

Sta.		H.I.	Rod	Ground	Grade	Cut
T.P.	3.85	78.94		75.09		
0+00	M.H. sta 2+29 on alley bet. K & L.		8.2	70.7	68.47	2.3
+50			8.5	70.4	68.57	1.8
1+00	0.2%	5	7.1	71.8	68.67	3.1
+50			7.0	71.9	68.77	3.1
+89.78	M.H. center K & 16.77 west center of 30th.		7.0	71.9	68.85	3.1
2+00			6.92	72.02	68.88	3.1
+50			6.2	72.7	69.03	3.7
3+00	0.3%		5.7	73.2	69.18	4.0
+50			4.9	74.0	69.33	4.7
+80.55	M.H. center alley bet K & J. & 3' west center of 30th.		4.8	74.1	69.42	4.7
4+00			4.4	74.5	69.50	5.0
+50	0.4%		3.8	75.1	69.70	5.4
5+00	dead end.		3.2	75.7	69.90	5.8



70.91
6.17
77.08 H.I.
68.47
8.61
68.57
8.51
68.85
8.23
69.03
8.05

68.67
8.41
68.77
8.31

75.09
3.84
78.93 H.I.
69.18
9.75

69.33
9.60
69.50
9.43
69.70
9.23

69.90
9.03

Sewer line on K from 16.77 west of center of Dodson to top of Dodson to center of 30th to near J St.

June 15/11 { Childs Taylor Burke } 23

Sta.		H.I.	Rod	Ground	Grade	cut
J.P.	7.24	79.26		72.02		
0+00	M.H. center K & 16.77 west center of 30th			71.9	68.85	3.1
+50			6.7	72.6	69.05	3.6
1+00			6.3	73.0	69.25	3.8
+50			6.2	73.1	69.45	3.7
2+00			5.9	73.4	69.65	3.8
+50			5.6	73.7	69.85	3.9
+63½	M.H. center K & Dodson.		5.4	73.9	69.90	4.0
3+00			4.9	74.4	70.05	4.4
+25			5.7	73.6	70.15	3.7
+50			5.9	73.4	70.25	3.2
4+00			5.2	74.1	70.45	3.7
+50			4.5	74.8	70.65	4.2
5+00			2.41	76.85	70.85	6.0
J.P.	6.03	82.88				
+50			3.0	79.9	71.05	8.9
+60			2.2	80.7	71.09	9.6

72.02 / 6.10 / 78.12 H.I. / 69.05 / 9.07

69.25 / 8.87 / 69.45 / 8.67 / 69.85 / 8.27

69.65 / 8.47 / 69.90 / 8.22

76.85 / 1.32 / 78.17 H.I. / 70.05 / 8.12 / 70.65 / 7.52 / 71.01 / 7.95

70.25 / 7.92 / 70.45 / 7.72 / 76.85 / 2.15 / 79.00 H.I. / 70.85 / 8.15

+86.6

Sewer 31st street from center alley bet. J & K to center alley bet. J & I.

June 19/11 { Childs, Barber, Taylor

29

Sta.		H.I. 83.64	Rod	Ground	Grade	cut.
0+00	M.H. center alley bet. J & K		8.4	75.2	73.11	2.1
+50			8.1	75.5	73.21	2.3
1+00			7.6	76.0	73.31	2.7
+50			7.5	76.1	73.41	2.7
2+00			6.15	77.49	73.51	4.0
+50			6.9	76.7	73.61	3.1
3+00			5.7	77.9	73.71	4.2
+50			5.4	78.2	73.81	4.4
+79.65	M.H. center alley bet. J & I.		5.0	78.6	73.87	4.7

77.49
4.02
81.51 H.I.

73.31 / 8.20

73.21 / 8.30

73.41 / 8.10

73.51 / 8.00

73.61 / 7.90

73.71 / 7.80

73.81 / 7.70

73.87 / 7.64

15
4
.60

79.75 5.1

Valley line bet. J & S from 600 west of 31st to Sta. 16+00 east of 32nd

June 19/11 Childs Taylor Bender

Sta.		H.I.	Rod	Ground	Grade B.M.	cut
J.P.	7.03	82.12		75.09		
0+00	F.S 600 west of 31st Street.		1.02	81.10	75.13	6.0
+50			3.6	78.5	75.03	3.5
1+00			4.61	77.51	74.93	2.6
+50			4.9	77.2	74.83	2.4
2+00			5.3	76.8	74.73	2.1
+50			5.1	77.0	74.63	2.4
3+00	M.H.		5.2	76.9	74.53	2.4
+50			4.5	77.6	74.43	3.2
4+00						
J.P.	5.42	83.64	3.40	78.22	74.33	3.9
+50			5.6	78.0	74.23	3.8
5+00			5.3	78.3	74.13	4.2
+50			5.5	78.1	74.03	4.1
6+00			5.1	78.5	73.93	4.6
+30	M.H. Center of 31st Street		5.0	78.6	73.87	4.7
+50			4.57	79.07	73.95	5.2
7+00			4.7	78.9	74.15	4.8
+50			4.5	79.1	74.35	4.8
					77.75	5.1

81.10 / 0.65 / 81.75 H.I. / 75.13 / 6.62

75.13 6.72 ✓ 74.83 6.92 ✓ 74.93 6.82 ✓ 74.73 7.02 ✓

74.63 7.12 ✓ 74.53 7.22 ✓ 74.43 7.32 ✓ 74.33 7.42 ✓

74.23 7.52 ✓ 78.22 / 4.70 / 82.92 H.I. / 74.13 5.79 ✓ 74.03 8.89 ✓ 73.93 8.99 ✓

grades January 4/11 Childs Taylor Bender

79.07 / 6.80 / 85.87 H.I. / 73.95 / 11.12 ✓ 74.15 10.92 ✓ 74.35 10.72 ✓

Cont. from page 30

Sta.		H.I. 83.64	Rod	Grade
8+00			4.4	79.2
+50			4.0	79.6
9+00			3.4	80.2
+50			3.0	80.6
+60	M.H.		3.1	80.5
10+00			3.39	80.25
	6.22	86.47		
+50			6.1	80.4
11+00			6.2	80.3
+50			6.3	80.2
12+00			6.0	80.5
+50			5.3	81.2
+90.96	M.H. center of 32nd		5.1	81.4
13+00			5.2	81.3
+50			3.7	82.8
14+00			2.7	83.8
+50			2.29	84.18
15+00			2.4	84.1
+50			2.1	84.4
16+00			3.0	83.5

June 21/11 { Shields, Taylor, Bunker

Grade	Cut
74.55 ✓	4.7
74.75 ✓	4.9
74.95 ✓	5.3
75.15 ✓	5.5
75.19 ✓	5.3
75.35 ✓	4.9
75.55 ✓	4.8
75.75 ✓	4.5
75.95 ✓	4.7
76.15 ✓	4.3
76.35 ✓	4.8
76.51	4.9
76.55 ✓	4.7
76.75 ✓	6.0
76.95 ✓	6.8
77.15 ✓	7.0
77.35 ✓	6.7
77.55 ✓	6.8
77.75 ✓	5.7

85.07 H.I.
74.55 ✓ 10.52
74.75 ✓ 10.32
74.95 ✓ 10.12
75.15 ✓ 9.92

75.19 ✓ 9.88
75.35 ✓ 9.72
75.55 ✓ 9.52
75.75 ✓ 9.32
75.95 ✓ 9.12

76.15 ✓ 8.92
76.35 ✓ 8.72
3.90 5.8
81.17
6.39
87.56 H.I.
76.55 ✓ 11.01
76.75 ✓ 10.81
76.95 ✓ 10.61

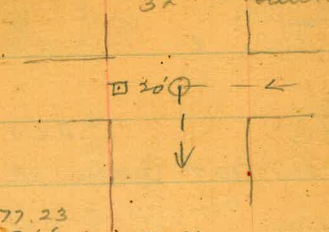
grades Judy 1/11 { Shields, Taylor, Bunker

84.18
5.12
89.30 H.I.
77.15 ✓ 12.15
77.35 ✓ 11.95
77.55 ✓ 11.75
77.75 ✓ 11.55

June 27/11 — Childs, Taylor, Bunker

32nd street, from alley bet. M & L & alley east bet. L & K.

Sta.			H.I.	Rod	Ground	Grade	cut
	J.P.	3.79	83.83		80.04		
8+	0+00	M.H. bet M & L center 32nd.		8.6	75.2	72.51	2.7
+	+50			7.2	76.6	72.71	3.9
9+	1+00			6.9	76.9	72.91	4.0
+	+50			6.60	77.23	73.11	4.1
+	2+00			6.0	77.8	73.31	4.5
10	+50			5.5	78.3	73.57	4.8
+	3+00			5.00	78.83	73.71	5.1
11	+50			4.5	79.3	73.91	5.4
+	+79.7	M.H. center 32nd & alley bet. L & K.		4.4	79.4	74.03	5.4
12	4+00			3.79	80.04	74.11	5.9
+	+50			2.5	81.3	74.31	7.0
+	5+00			2.2	81.6	74.57	7.1
13	+50			2.46	81.37	74.71	6.7
+	6+00			4.2	79.6	74.91	4.7
14	~~+20~~			5.55	78.28	74.90	
+							
15+							
+							
16+0							



82.11
5.23
87.34 H.I.
7.30
80.04 J.P.

77.23
3.68
80.91 H.I.
72.71
8.20

72.91
8.00

73.11
7.80

73.31
7.60

73.51
7.40

77.23
7.57
84.80 H.I.
73.71
11.09

73.91
10.89

74.03
10.77

74.31
10.49

74.51
10.29

74.71
10.09

74.91
9.89

grades July 8/11 — Childs, Taylor, Bunker

Sewer line on 8th from alley no. of Monterey

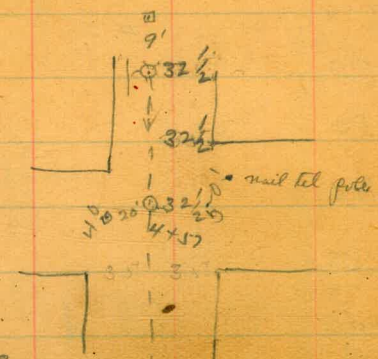
no. of min. ave. to sta 8+00 { Childs, Taylor, Bunker

July 13/11

35

St	Sta.		H.I.	Rod	Ground	Grade	Cut
	J.P.	3.60	288.03		284.43		
8+	0+00	M.H. center alley no. of University ave		3.7	284.3	274.50	9.8
+	+50			4.7	283.3	274.70	8.6
9+	1+00			4.5	283.5	274.90	8.6
+	+50			4.2	283.8	275.10	8.7
+	2+00			4.2	283.8	275.30	8.5
10	+50			4.0	284.0	275.50	8.5
+	3+00			3.7	284.3	275.70	8.6
11	+50			3.14	284.89	275.90	9.0
+	4+00			2.9	285.1	276.10	9.0
12	+50			3.7	284.3	276.30	8.0
+	+57	M.H. center of monterey on east		3.7	284.3	276.33	8.0
+9	5+00			4.0	284.0	276.50	7.5
13+	+50			3.4	284.6	276.70	7.9
+	6+00			3.6	284.4	276.90	7.5
14+	+50			3.6	284.4	277.10	7.3
+	7+00			3.5	284.5	277.30	7.2
15+	+50			4.2	283.8	277.50	6.3
+5	8+00	F.S. 343' no. center of monterey		4.4	283.6	277.70	5.9
16+0							

13.63
274.40



284.43
3.07
287.50 H.I.
274.90
12.60

2+00
274.90
12.80

274.52
12.98

Childs, Taylor, Bunker

284.43
3.20
287.63 H.I.
275.10
12.53

275.30
12.33 July 21/11

284.89
4.72
289.61 H.I.
276.50
13.11

276.70
12.91

276.90
12.71

277.10
12.51

277.30
12.31

277.50
12.11

277.70
11.91

Sewer lowered on alley bet. 30th west to F.T.

M + L from July 14/11 { Childs, Taylor, Banker

34

Sta.			H.I.	Rod	Ground	Grade	cut
J.P.		4.20	79.17		74.97	B.M.	
0+00				5.6	73.6	67.25	6.4
+50				6.5	72.7	67.45	5.3
1+00				6.7	72.5	67.65	4.9
+50				7.0	72.2	67.85	4.4
2+00				7.3	71.9	68.05	3.9
+50				7.3	71.9	68.25	3.7
+94.9	M.H.			5.6	73.6	68.43	5.2
3+00				7.45	71.72	68.45	3.3
+50				7.0	72.2	68.65	3.6
4+00				6.8	72.4	68.85	3.6
+50				7.0	72.2	69.05	3.2
5+00				6.8	72.4	69.25	3.2
+50				6.2	73.0	69.45	3.6
+90	F.T.			3.2	76.0	69.60	6.4

71.72
5.43
77.15 H.I.
67.45
9.70

71.72
4.88
76.60 H.I.
67.27
9.33

68.85
7.75

69.05
7.55

69.60
7.00

67.65
9.50

67.85
9.30

68.25
8.35

68.41
8.19

69.25
7.35

68.05
9.10

68.45
8.15

68.65
7.95

69.45
7.15

Sewer on H. from M.H. 27th west 250'. July 17/11 { Childs, Taylor, Bunker

Note. Line crosses center of H at about 0+85.

Sta		H.I.	Rod	Ground	Grade	cut
0+00	M.H. 27th + H.	116.50	6.5	110.0	1[illegible]5.9	4.1
+25			8.28	108.22	106.0	2.2
+50			5.5	111.0	106.1	4.9
+75		126.98	11.77	115.21	111.1	4.1
1+00			5.7	121.3	116.1	5.2
+25		139.54	12.71	126.83	121.1	5.7
+50			7.06	132.48	126.1	6.4
+75			1.2	138.3	131.1	7.2
2+00		151.96	9.37	142.59	136.1	6.5
+25			4.7	147.3	139.3	8.0
+50			0.77	151.19	142.5	8.7

156.17 B.M.
12.91
169.08 H.I.
.10
168.98 J.P.
7.54
176.52 H.I.
12.05
164.47 J.P.
0.03
164.50 H.I.
12.69
151.81 J.P.
0.15
151.96 H.I.
12.93
139.03 J.P.
0.51
139.54 H.I.
12.71
126.83 J.P.
0.15
126.98 H.I.
11.77
115.21 J.P.
1.29
116.50 H.I.
151.19
1.55
152.74 H.I.
142.5
10.24

10.65
108.22
10.12
118.34 H.I.
106.10
12.24
106.0
12.34
105.92
12.42
116.1
2.24
120.83
11.43
138.26 H.I.
126.1
12.16
142.59
6.59
149.18 H.I.
136.10
13.08

Grades. { Childs, Taylor, Bunker

July 29/11

Sewer line at H, 28th Street west to top of Hill

Aug 1/11

Shields
Taylor
Bunker

Sta	Sta.		H.I.	Rod	Grade	Grade cut	
8+0	0+00	M.H. Center 28th & H.	114.01	10.9	103.1	98.50	4.6
+5	+25			10.60	103.41	98.60	4.8
9+0	+50			9.9	104.1	98.70	5.4
+5	+75			5.6	108.4	105.13	3.3
+6	1+00		126.61	9.37	117.24	111.56	5.7
10+0	+25			8.8	122.8	118.00	4.8 +
+5	+50		138.80	9.90	128.90	123.60	5.3
11+0	+75			4.8	134.0	129.20	4.8
+5	2+00		151.31	10.54	140.77	134.80	5.9
12+0	+25			6.0	145.3	140.40	4.9
+5	+50		162.14	12.00	150.14	146.00	4.1 +
+90	+75			9.3	152.8	149.50	3.3
13+0	3+00			5.2	156.9	153.00	3.9
+5	+25			1.56	160.58	156.50	4.1
14+0	+50		167.31	3.08	164.23	160.00	4.2
+5	+75			2.2	165.1	161.50	3.6
15+0							
+50							
16+00							

103.41 + 7.17 = 110.58 H.I. − 98.70 = 11.88

98.50 + 12.08

117.24 + 7.08 = 124.32 H.I. − 111.56 = 12.76

118.00 − 6.32

123.60 − 0.72

140.77 + 7.19 = 147.96 H.I.

146.00 − 1.96

134.80 − 13.16

164.23 + 0.38 = 164.61 H.I. − 153.0 = 11.61

160.00 − 4.61

161.5 − 3.11

Shields
Taylor
Bunker
grades.

aug. 7/11

6th Street Ivy Lane north

Sta	Sta.	o	H.I.	Rod	Ground	Grade	Cut
	J.P.	4.38	288.36		283.98	B.M. 5th & walnut	
8+0	0+00	M.H. 3' north of		2.3	286.1	275.03	11.1
+5	+50	Center Ivy Lane & center of 6th.		4.07	284.29	275.23	9.1
9+0	1+00			5.9	282.5	275.43	7.1
+5	+50		✓	7.62	280.74	275.63	5.1
+6	2+00			9.4	279.0	275.83	3.2
10+	+25	dead end.		10.30	278.06	275.93	2.2
+							
11+							
+		256.2 center of 5th to center 6th					
12+		M.H. center 5th				274.00	
+		Ivy Lane H.I.					
	J.P.	2.95	286.93		283.98		
+90	0+00	M.H. center 5th				274.00	
13+0	+50		✓	4.8	282.1	274.20	7.9
+5	1+00			3.9	283.0	274.40	8.6
14+	+50			3.0	283.9	274.60	9.3
+5	2+00			1.9	285.0	274.80	10.2
15+0	+56.2	M.H. center 6th				275.03	
+5							
16+00							

283.98
2.57
286.49 H.I.
12.49
274.00

256.2
.04
1.0248

1141
275.08
274.
68

2.95

1.20

Sewer line on National ave. & 16th & streets from center Jan. 30/12 Hollands Taylor Bunker

38

Sta	Sta. S.P.		H.I. 8.55	Rod	Grade 12.52	Grade cut B.M. NE cor. 16th & N. 0.20%				
8+0	0+00	M.H. center N & National ave.		4.4	4.2	− 1.00	5.2	− 1.00	5.2	
+5	+50			5.2	3.4	− 0.80	4.2	− 0.90	4.3	
9+0	1+00			5.3	3.3	− 0.60	3.9	− 0.80	4.1	
+5	+50			5.3	3.3	− 0.40	3.7	− 0.70	4.0	
+0	2+00			5.22	3.33	− 0.20	3.5	− 0.60	3.9	
10+	+50			5.3	3.3	0.00	3.3	− 0.50	3.8	
+	3+00			5.1	3.5	+ 0.20	3.3	− 0.40	3.9	
11+	+50			4.8	3.8	0.40	3.4	− 0.30	4.1	
+	4+00			4.93	3.62	0.60	3.0	− 0.20	3.8	
12+	+50			4.9	3.7	0.80	2.9	− 0.10	3.8	
+5	5+00			4.8	3.8	1.00	2.8	0.00	3.8	
+9	+50			4.6	4.0	1.20	2.8	+ 0.10	3.9	
13+	6+00			4.60	3.95	1.40	2.6	0.20	3.8	
+5	+39.25	M.H. center 16th and National ave.		4.26	4.29	1.56	2.7	0.28	4.0	
14+	+50			4.8	3.8	1.60	2.2	0.30	3.5	
+5	7+00			6.32	2.23	1.80	+ 0.4	0.40	1.8	
15+0	+50			7.43	1.12	2.00	− 0.9	0.50	0.6	
+5										
16	+00									

National ave. 15

16

15

3.33 / 4.98 / 8.31 H.I.
− 0.80 / 9.11
− 0.70 / 9.01
− 0.60 / 8.91
− 0.50 / 8.81
− 0.40 / 8.71
− 0.30 / 8.61
− 0.20 / 8.51
− 0.10 / 8.41
0.00 / 8.31
0.10 / 8.21
0.20 / 8.11
0.28 / 8.03
2.23 / 4.28 / 6.46 H.I.
0.30 / 6.16
0.40 / 6.06
0.50 / 5.96

Jan 30/12 { Child's Taylor Bunker

Cont. from page 38.

Sta.		H.I. 8.55	Rod	Grade
8+00			8.00	+0.55
+29.15	M.H. Center alley bet. Walnut & Newton		8.30	+0.25
+50			8.34	+0.21
9+00			8.68	−0.13
+50			7.58	+0.97
10+00			4.95	3.60
+25	F.S.		1.83	6.72

0.4 % Grade	Cut	0.2 % Grade	cut	6.46 H.I.
2.20	−1.6	0.60 ✓	0.0	0.61 ✓ / 5.86
2.32	−2.0	0.66 ✓	−0.4	0.66 / 5.80 ✓
2.40	−2.2	0.70 ✓	−0.5	0.70 / 5.76 ✓
2.60	−2.7	0.80 ✓	−0.9	0.80 / 5.66 ✓
2.80	−1.8	0.90 ✓	+0.1	0.90 ✓ / 5.56
3.00	+0.6	1.00 ✓	2.6	1.00 / 5.46 ✓
3.10	3.6	1.05	5.6	

1st Ave. ARBOR DR.

Sewer at 2nd & Stockton from Old F.T. to Center of Stockton & up Stockton West.

Feb. 23/12 { Childs, Taylor, Bunker

40

Sta.	See 479-55	H.I.	Rod	Ground	Grade	Cut.
0+00	Old F.T.	294.54	6.0	288.5	283.74	4.8
+25			6.38	288.16	283.84 ✓	4.4
+50			6.6	287.9	283.94	4.0
+67.15	M.H. center of Stockton & 2nd	see page 45	6.9	287.6	284.01 ✓	3.6
1+00	ARBOR DR. & 1st Ave.		6.8	287.7	284.14 ✓	3.6
+50			6.1	288.4	284.34 ✓	4.1
2+00			4.98	289.56	284.54 ✓	5.1
+15	dead end. ✓		4.6	289.9	284.60 ✓	5.3

288.16
4.32
292.48 H.I.
283.84 ✓
8.64
284.01
8.47 ✓
284.14
8.34 ✓
284.34
8.14 ✓
284.54
7.94 ✓
284.60
7.88 ✓

287.97 B.M.
5.34
293.31 H.I.
3.07
290.24 T.P.
4.30
294.54 H.I.
10.84
283.70

215
67
48

Prel. Sewer on alley bet. 6th & 7th from Penn. May 1/12 { Childs, Taylor, Brunker

South.

Sta.		1.8.3	H.I. 288.69	Rod	286.86 Elev.	Grade of M.H. about 10' east of alley 280.13	
0+00	Center of Penn.			5.1	283.6	280.13	
+50				3.4	285.3		
1+00				3.5	285.2	280.53	
+50				2.8	285.9		
2+00				3.3	285.4	280.93	4.5
+50				4.7	284.0	281.13	2.8
3+00				6.6	282.1	281.33	

Prelim

Sewer on alley bet. 6th & 7th Penn. ave. So. May. 9/12 H Childs Taylor Bunker 42

190'.

Sta.			N.E.	Rod	Grade	Grade	cut
J.S.		3.10	289.96		286.86	BM.	
0+00	MH. Center of Penn. ave. & alley.			6.3	283.7	280.10	3.6
+25				6.20	283.76	280.20	3.6
+50			190.0	4.67	285.29	280.30	5.0
1+00				4.7	285.3	280.50	4.8
+50				4.1	285.9	280.70	5.2
2+00				4.61	285.35	280.90	4.5
+50				6.0	284.0	281.10	2.9
+90	dead end			7.5	282.5	281.26	1.3

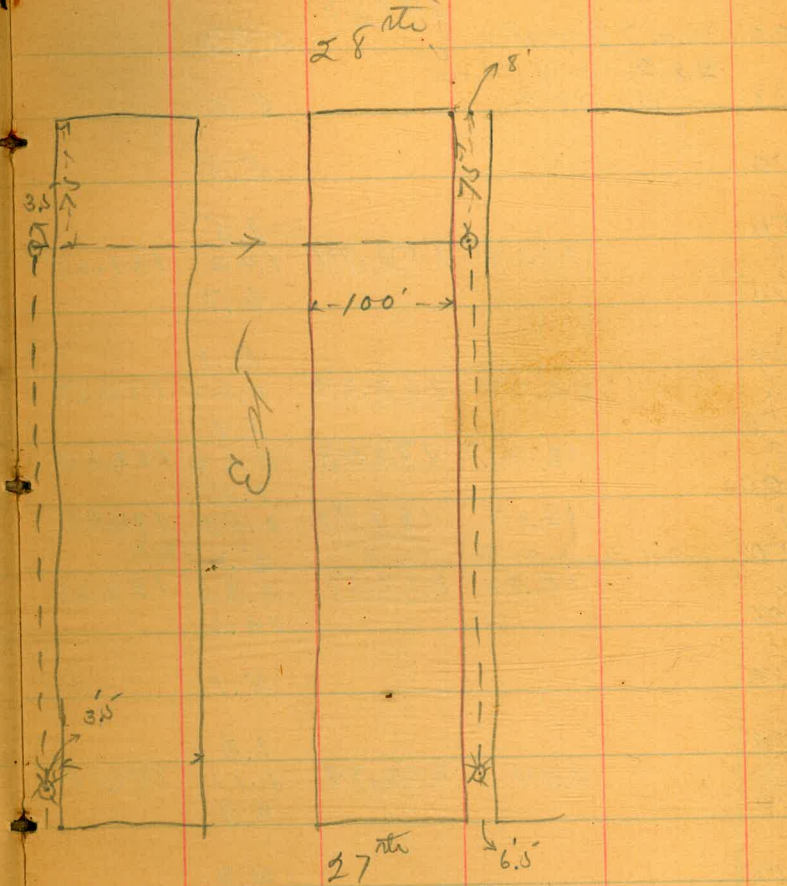
June 21/12 Childs Taylor Bunker

Prel. Sewer in alley South of E from 27th & F N.W. cor mon. 168.98

75' west of 28th to 27th

E bet. 28th & 29 mon. 184.69

Sta.		~~H.T.~~	Rod	Elev.
0+00	M.H. 75' west of 28th or 45' west of old line 28th.	140.47	12.37	
+50		143.06	11.2	
1+00			1.5	
+20		155.02	9.5	
+50			5.7	
+75		167.25	12.6	
2+00			8.1	
+25			2.1	
+50		179.69	10.3	
3+00			2.2	
+50		191.52	8.6	
4+00			3.8	
+50			3.3	
5+00			1.9	
+15	F.T. about 40' East of 27th		1.67	189.85



Prel. sewer on alley bet. D & E 1.5 South of. June 22/12 { Childs, Taylor, Bunker 44

Center of 10' alley.

Sta.		H.I.	Rod	Elev.
		140.47		
0+00	M.H. 75' west of 28th or 45' west of old 28th.		5.33	
+48			8.0	
+50			5.9	
+56			1.5	
J.P.	11.69	150.74	1.42	139.05
+75			6.7	
1+00			2.1	
J.P.	12.77	163.30	0.21	150.53
+50			1.1	
J.P.	12.75	175.43	0.62	162.68
2+00			1.5	
J.P.	13.07	187.97	0.53	174.90
+50			5.2	
J.P.	12.90	200.51	0.36	187.61
3+00			10.6	
+50			5.1	
4+00			1.0	
J.P.	3.44	202.84	1.11	199.40
+50			2.9	
5+00			4.7	
+15	F.S. about 40' from 27th		5.33	197.51

5.84 182.13 J.P. on hub. near 2+50

4/5/22 Gregory Moore Miller Shaw

Sewers Levels E of Arbor Drive
Xfrom M.H. Ctr of Arbor & 1st St.
To a point

	289	290.95	288.06	
M.H 0+47.15 page 40				
= 0+00		6.85	284.10	Flow Line
0+00		3.08	287.87	Top of M.H.
0+50		3.80	287.1	
1+00	–	5.1	285.9	15' N = 285 25' N = 288
1+45	opposite 3rd house	5.7	285.3	
1+58		6.3	284.7	15' N = 284.0 25 N = 287

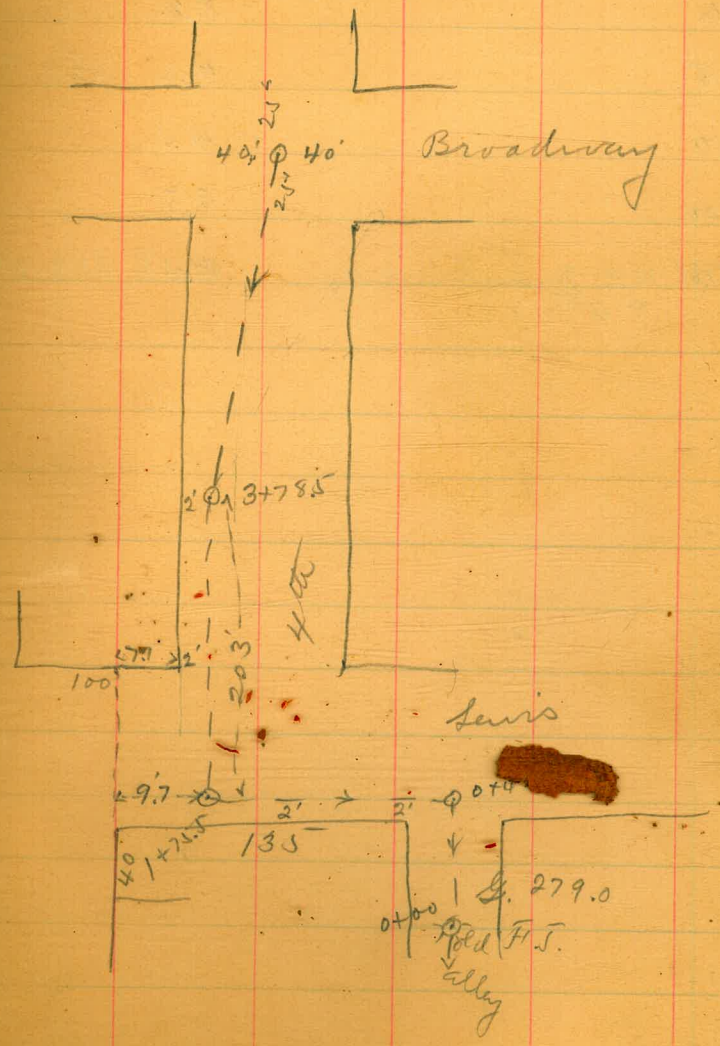
Prel. Sewer on Lewis & Fourth

1

June 27/12 { Childs, Taylor, Bunker

Sta.		H.I.	Rod	Elev.
T.P.	2.63	285.77		283.14
0+00	old F.S. center of alley bet. 4th & 5th		2.2	
+42.4	M.H. 2' no. of so. line of Lewis		3.63	282.14
+50			4.6	
+90			6.6	
1+00			4.1	
+50			4.1	
+75.5	M.H. 2' no. of so. line Lewis & 9.7' east of 4th.		4.18	281.59
+84	gutter		4.5	
+85			4.9	280.9
2+00			5.0	
+14	gutter		6.2	279.6
+15			5.8	280.0
+50			5.6	
3+00			4.9	
+50			4.3	
+78.5	M.H.		4.04	281.73
4+00			3.9	

1755
203
378



June 27/12 { Shields Taylor Bunker

Cont. from page 47

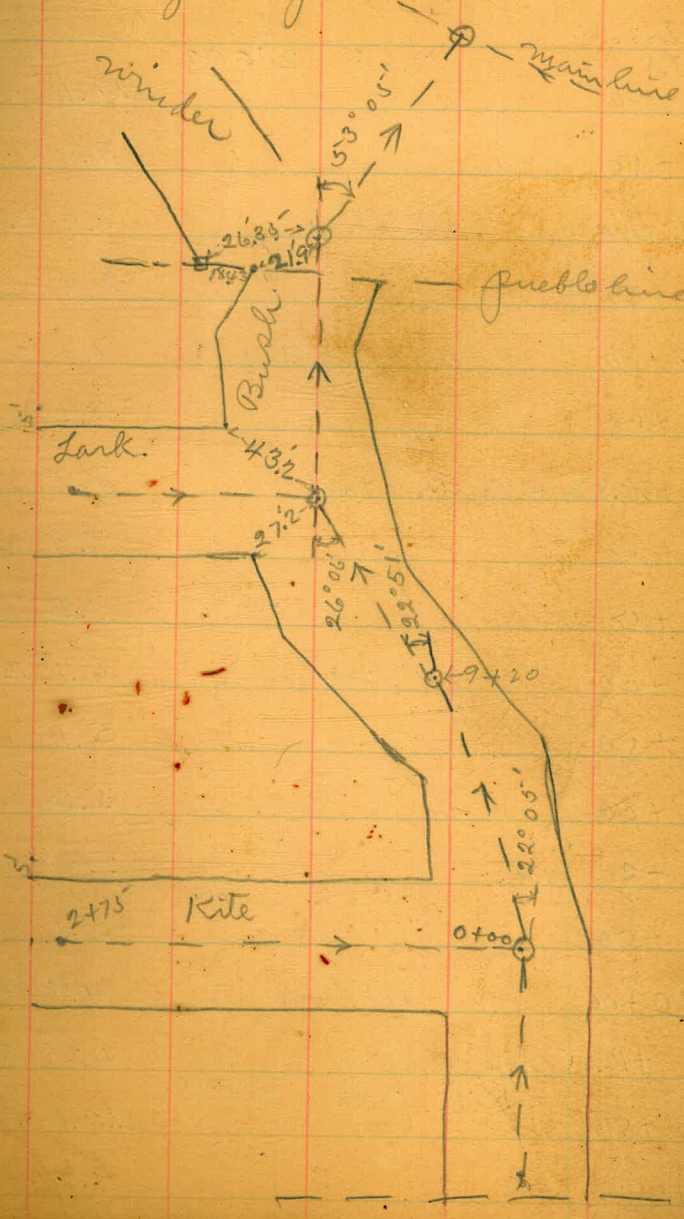
Sta.	H.I. 285.77	Rod	Elev.
4+16		3.8	
+25		4.6	281.2
+50		4.1	
5+00		3.7	
+57.88 MH. Center Broadway + 4th,		3.48	282.29

3.0 83.5

Prel. Sewer on lot line bet. Tupper & Boone July. 9/12 { Childs Taylor Bunker 49

& on Bush from main line in bottom of Canyon

Sta.			H.I.	Rod	Elev.
J.P.		11.18	158.35		147.17
0+00	M.H. bottom of Canyon.			13.4	145.0
+28				6.3	152.0
J.P.		12.30	170.52	0.13	158.22
+41				12.2	158.3
+50				9.9	160.6
+65				5.1	165.4
J.P.		12.35	182.86	0.01	170.51
+80				11.0	171.9
1+00				7.3	175.6
J.P.		12.96	195.80	0.02	182.84
+50				4.8	191.0
J.P.		12.83	207.94	0.69	195.11
2+00				3.6	204.3
J.P.		13.06	220.84	0.16	207.78
+16				11.9	208.9
+26				6.4	214.4
+40				3.7	217.1
J.P.		12.90	233.68	0.06	220.78
+50				12.0	221.7
+70				4.3	229.4
J.P.		13.09	246.76	0.01	233.67
3+00				11.1	235.7
J.P.		13.22	259.52	0.46	246.30
+19				11.4	248.1
+50				3.3	256.2
+65	M.H. at Bush & Winder			0.20	259.32



Cont. from page 49

Sta.		H.I.	Rod	Elev.
J.P.	10.68	270.00		
4+00			10.1	259.9
+50			9.7	260.3
5+00	11' deep.		8.9	261.1
+50			8.3	261.7
6+00	about 10" deep		7.8	262.2
+50			7.4	262.6
+70.8 M.H. Center of Lark			7.18	262.8
7+00			7.4	262.6
+50			7.2	263.8
8+00	11' deep.		6.7	263.3
+50			5.9	264.1
9+00			5.6	264.4
+20 M.H.			5.28	264.7
+50			5.1	264.9
10+00	10' deep.		4.4	265.6
+12.65 M.H. center of Kite	10.68	276.40	4.28	265.72
J.P. +50			10.1	266.3
11+00			9.8	266.6
+25			9.6	266.8

July. 10/12 { Childs Taylor Bunker

50

1125
1012.65
112.35

Kite street from center of

Sta.		H.I. 276.40	Rod.	Elev.
0+00	M.H. center of Bush.		10.68	265.7
+50			8.6	267.8
1+00			5.9	270.5
+50			4.5	271.9
2+00			4.0	272.4
+50			4.0	272.4
+75			4.3	272.1

Lark. street so. 75' from Bush.

0+00	M.H. in Bush & center Lark	270.00	7.18	262.8
+25			6.3	263.7
+50			2.9	267.1
+75			0.0	270

Bush south 275'

July 10/12 Childs Taylor Bunker

1.90	H.I.? 214.89	Rod	Grou[illegible] 212.99

8.33
7.58

7.83
207.06

Sewer line from center alley bet. to Broadway 100' west of 4th

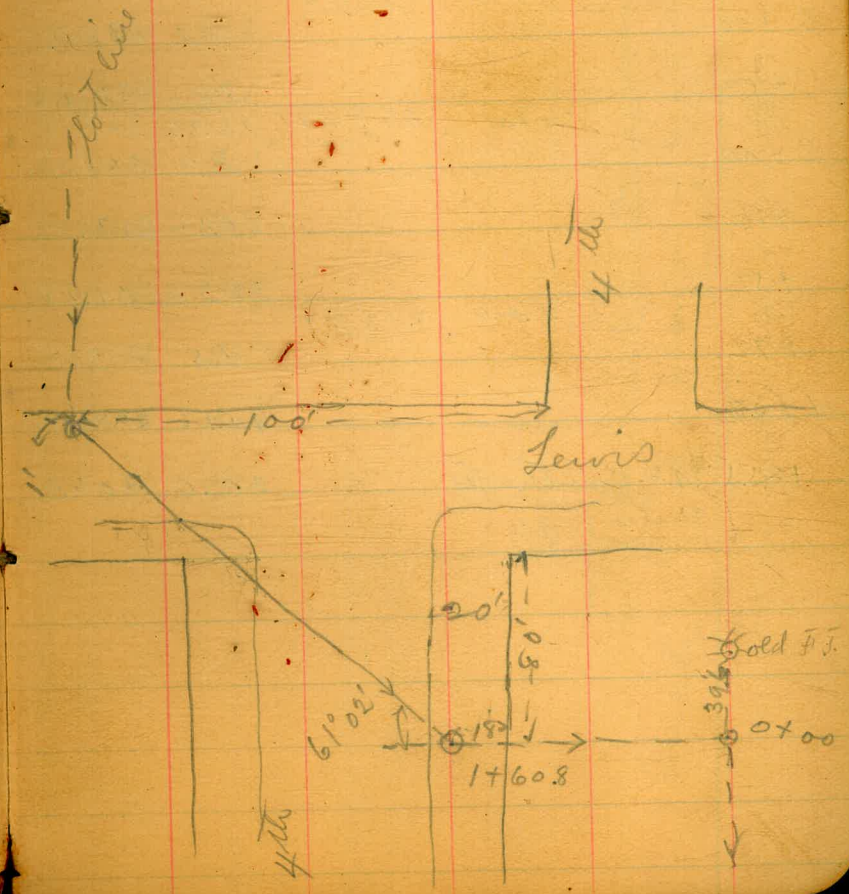
Sta.		H.I.	Rod	Elev
T.P.	5.94	289.08		283.14
0+00	M.H. center alley bet 4th + 5th + 80' so. of Lewis + 39.6' so. of old F.T.		4.84	284.3
+50			5.3	283.8
1+00			5.2	283.9
+50			4.9	284.2
+60.8	M.H. lot. bet. 2+3 2' east of curb.		5.14	284.0
+65	gutter		6.0	283.1
2+00			5.2	283.9
+26	gutter		6.2	282.9
+50			5.8	283.3
+65	gutter		7.2	281.9
3+00	gutter		5.7	283.4
+14.12	M.H. 1' so. of north line of Lewis + on lot line bet.		4.37	284.8
+50			3.5	285.6
T.P.	3rd + 4th 5.67	289.87	4.88	284.20
4+00			4.5	285.4
+50			4.6	285.3
5+00			4.7	285.2
+50			3.5	286.4
+85	about 30' south of Broadway		2.5	287.4

4th + 5th + 80' so. of Lewis
Oct. 7/12 — Childs, Taylor, Otten

283.2 south gutter of Broadway 100' west of 4th

284.1 center of Broadway 100' west of 4th

153.32

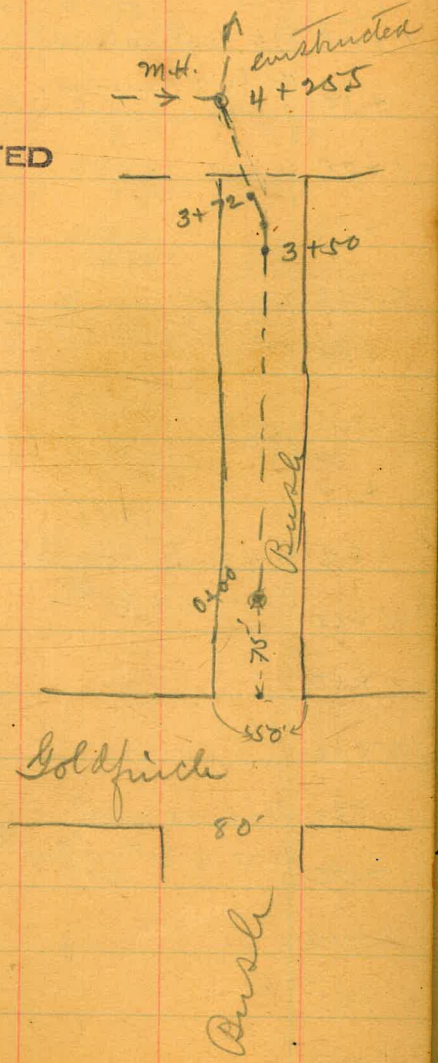


Bush street from 75' east of Goldfinch to M.H. bottom of Canyon Center of Eagle produced.

Oct. 21/12 { Childs, Taylor, Allen

Sta.			HI	Rod	Ground	Grade	Cut
J.P.		6.04	263.03		256.99		
0+00	dead end, 75'			9.94	253.09	249.00	4.1
J.P.	East of Goldfinch		251.57	12.58	250.45		
+50		1.12		2.7	248.9	244.80	4.1
1+00				7.3	244.3	240.60	3.7
+50				11.38	240.19	236.40	3.8
J.P.		0.46	240.65				
2+00				4.7	236.0	232.20	3.8
+50				8.60	232.05	228.00	4.1
J.P.		-0.04	227.69	12.92	227.73		
3+00				2.2	225.5	218.00	7.5
+15				10.56	217.13	215.00	2.1
+50				12.72	214.97	210.57	4.4
J.P.		1.00	215.97				
+72				4.5	211.5	207.78	3.7
4+07				11.13	204.84	203.35	1.5
+25.5	M.H. constructed center Eagle produced.		×	10.0	206.0	201.0	5.0

POSTED



Sewer extension on Univ. ave from M.H. bet alley bet. Utah & Kansas to west line of 30th

Nov. 11/12 { Childs, Taylor, Otten

Sta.		H.I.	Rod	Ground	Grade	cut
T.P.	2,65	357.08		354,43		
0+00	M.H. center alley bet. Utah & Kansas.		5.5	351.6	347.17	4.4
+50			5.08	352.00	347.37	4.6
1+00			4.7	352.4	347.57	4.8
+50			4.3	352.8	347.77	5.0
2+00			3.87	353.21	347.97	5.2
+50			3.3	353.8	348.17	5.6
3+00			2.8	354.3	348.37	5.9
+50			2.48	354.60	348.57	6.0
+82	M.H. center alley bet. Kansas & 30th		2.5	354.6	348.70	5.9
4+00			2.2	354.9	348.78	6.1
+50			2.0	355.1	348.89	6.2
5+00			1.6	355.5	349.00	6.5
+30	dead end west line of 30th street 6.45	360.88	1.42	355.66	349.13	6.5
+50			5.09	354.43 355.79	BM 349.20	6.6
6+00			4.96	355.92	349.40	6.5
+65			5.2	355.7	349.66	6.0
7+00			5.40	355.48	349.80	5.7
+58.75	center alley bet. Ohio & 30th		5.7	355.2	350.04	5.2
+98.75	North Prop.		5.37	355.51	350.20	5.3

352.00
5.23
357.23 H.I.
347.37 / 9.86 ✓ 347.57 / 9.66 ✓ 347.77 / 9.46 ✓
347.97 / 9.26 ✓ 348.17 / 9.06 ✓ 348.37 / 8.86 ✓
348.57 / 8.66 ✓ 348.70 / 8.53 ✓ 348.78 / 8.45 ✓
348.89 / 8.34 ✓ 349.13 / 8.10 ✓

July 1/13 { Childs, Otten, Bunker

355.92
4.62
360.54 H.I. 349.13 / 11.41 350.04 / 10.50
349.20 / 11.34 ✓ 349.40 / 11.14 ✓
349.66 / 10.88 ✓ 349.80 / 10.74 ✓

Sewer center of Park Villa drive from center of Myrtle

$80' north.

Nov. 11/12 { Childs, Taylor, Otten

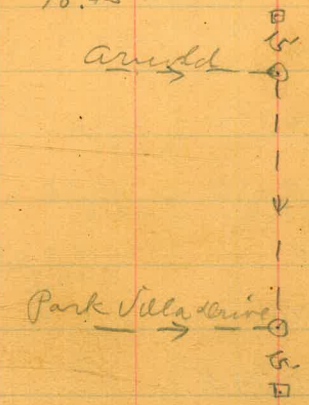
Sta.		H.I.	Rod	Ground	Grade	Cut
0+00	M.H. center of Myrtle	285.97	10.8	275.2	270.2	5.0
+50			10.32	275.65	270.8	4.8
1+00			9.6	276.4	271.4	5.0
+50			9.1	276.9	272.0	4.9
2+00			8.5	277.5	272.6	4.9
+50			7.82	278.15	273.2	5.0
3+00	M.H.		7.2	278.8	273.8	5.0
+50			6.4	279.6	274.4	5.2
4+00			5.8	280.2	275.00	5.2
+50			5.1	280.9	275.6	5.3
5+00			4.40	281.57	276.2	5.4
+50			4.0	282.0	276.8	5.2
+80	F.T. near Dwight		3.8	282.2	277.16	5.0
6+10						

278.15
3.68
281.83 H.I.
272.6
9.23

272.0
9.83
271.4
10.43

270.8
11.03

286.0



Sewer on arnold from center of Myrtle

Nov. 12/12 { Childs, Taylor, Otten

57

580' north

Sta.		H.I.	Rod	Ground	Grade	Cut
TP.	8.70	285.97		277.27		
0+00	M.H. center of Myrtle		8.0	278.0	273.0	5.0
+50			7.46	278.51	273.6	4.9
1+00			6.9	279.1	274.2	4.9
+50			6.1	279.9	274.8	5.1
2+00			5.5	280.5	275.4	5.1
+50			5.03	280.94	276.0	4.9
3+00	M.H.		4.2	281.8	276.6	5.2
+50			3.8	282.2	277.2	5.0
4+00			3.2	282.8	277.8	5.0
+50			2.8	283.2	278.4	4.8
5+00			2.09	283.88	279.0	4.9
+50			1.5	284.5	279.6	4.9
+80			1.1	284.9	279.96	5.0
6+10	deadend				280.32	

282.85 H.I.
273.6 / 9.25
274.2 / 8.65
275.4 / 7.45
274.8 / 8.05
276.0 / 6.85
276.6 / 6.25
280.94 / 7.32 / 288.26 H.I.
277.2 / 11.06
277.8 / 10.46
278.4 / 9.86
279.0 / 9.26
279.6 / 8.66
279.96 / 8.30
280.32 / 7.94

Sewer on Center Myrtle from Center Arnold NW. 12/12 {Childs Taylor Otten 58

To Center of Park Villa drive.

Sta.		H.I.	Rod	Grade	Cut
		285.97			
0+00	M.H. Center of Arnold		8.0	278.0	273.0 ✓ 5.0
+50			8.7	277.3	272.18 ✓ 5.1
1+00			9.40	276.57	271.36 ✓ 5.2
+50			10.2	275.8	270.54 ✓ 5.3
+70	M.H. center of Park Villa drive		10.8	275.2	270.2 ✓ 5.0
		H.I. 281.83			
0+00	= 1+70 above. -Center of Myrtle		6.6	275.2	268.2 7.0
+50			9.82	272.01	266.7 5.3
1+00			10.4	271.4	265.2 6.2
+35	So. of Myrtle on center Park Villa drive		11.53	270.30	264.15 6.2

276.57 / 6.28 / 282.85 H.I. / 270.2 / 12.65 ✓

278.00 / 9.85 ✓

270.54 / 12.31 ✓

271.36 / 11.49 ✓

272.18 / 10.67 ✓

272.01 / 6.29 / 277.30 H.I.

16+00

Sewer Center of Albatross
Washington 167'.

Sta.		H.I.
		280.99
0+00	main line in Washington	
+50		
1+00		
+50		
+67	deadend	

So. of

Dec. 28/12 { Childs, Taylor, Otten

59

Grade.		
270.13	280.99 H.I.	
	270.80	270.73
	10.19 ✓	10.26 ✓
270.33 ✓	270.53	270.33
	10.46 ✓	10.66 ✓
270.53 ✓		
270.73 ✓		
270.80 ✓		

Levels on lot line 100' east of Ibis South from Center of Bush.

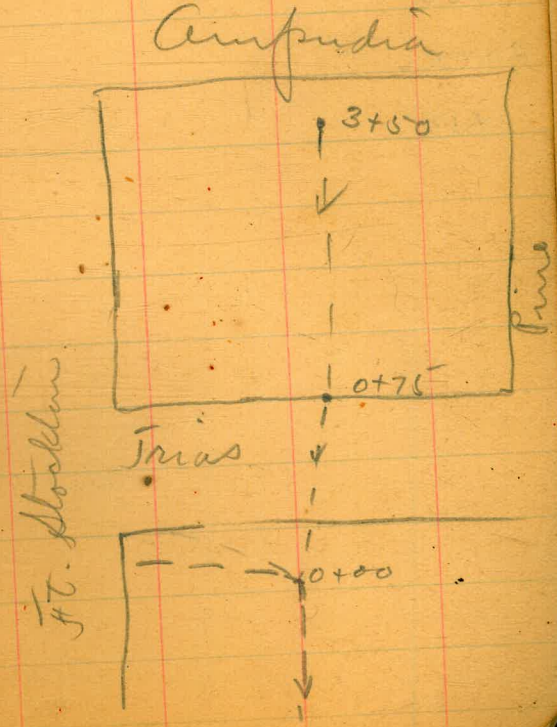
Dec. 28/12 { Childs, Taylor, Otten

60

S	Sta:		H.I.	Rod	Elev.	Grade
		8.57	265.57		257.00	
0	0+00	Center of bush		3.4	262.1	259.6
	+30	So. line Bush		3.4	262.1	
1	+55			3.7	261.9	
	+80			3.8	261.8	
	1+05			4.2	261.4	
	+30			4.5	261.1	260.12
	+55			5.0		
	+80			5.5		
	2+05			6.0		
	+30			6.6		
	+55			7.2		
	+80			7.8		
	3+05			8.1		
	+30			7.9		
	+55			7.3		
	+80			7.2		

Prel. Sewer bet. Pine & Fr. Stockton from Trias to Ampudia

Sta.		H.I.	Rod	Elev	Grade	
	6.10	274.28		268.18		
0+00			5.6	268.7	263.4	5.3
+50			6.2	269.1		
+75	north line Trias & lot line bet. Pine & Fr. Stockton		4.6	269.7		
1+00			4.7	269.6		
+50			5.8	268.8		
2+00			6.2	268.1		
+50			7.0	267.3		
3+00			7.9	266.4	264.6	1.8
+50	about 25' from Ampudia		9.2	265.1	264.9	0.3
	-8.38					



Sewer in Blk. 14 missing Hills

Feb. 6/13

Childs
Taylor
Otten

6

Sta.		H.I.	Rod	Ground	Grade	Cut
T.P.	3.45	279.81		276.36		
0+00	M.H. center of Stephens		9.1	270.7	265.00	5.7
+50			9.94	269.87	265.15	4.7
1+00			9.74	270.07	265.30	4.8
+15	end curve	✓	9.5	270.3	265.35	5.0
+24.2	center curve.		9.4	270.4	265.37	5.0
+33.4	end curve		9.17	270.64	265.40	5.2
+50			8.6	271.2	265.45	5.8
2+00			6.59	273.22	265.60	7.6
+50			5.5	274.3	265.75	8.6

269.87
4.91
274.78 H.I.

265.30 / 9.48 ✓

265.15 / 9.63 ✓

265.35 / 9.43 ✓

265.37 / 9.41 ✓

265.40 / 9.38 ✓

265.45 / 9.33 ✓

265.60 / 9.18 ✓

265.75 / 9.03 ✓

Mission Hills

Sewer on Broadway from Center of Sierra Vista to Hermosa Way.

Feb. 18/13

{Childs, Tayer, Allen}

Sta.		H.I.	Rod	Ground	Grade	cut
T.P.	9.41	275.36		265.95	252.68	
0+00	M.H. Center of Sierra Vista		9.8	265.6	260.00	5.6
+50			8.68	266.68	261.60	5.1
1+00			6.97	268.39	263.20	5.2
+50			5.38	269.98	264.80	5.2
2+00	M.H.		3.8	271.6	266.40	5.2
+50			3.67	271.69	266.65	5.0
3+00			3.50	271.86	266.90	5.0
+50			3.25	272.11	267.15	5.0
4+00			3.03	272.33	267.40	5.0
+50			2.75	272.61	267.65	5.0
5+00			2.50	272.86	267.90	5.0
+50			2.15	273.21	268.15	5.0
+75	dead end		2.10	273.26	268.28	5.0

266.68
5.57
272.25 H.I.
260.32
11.93
261.60
10.65
264.80
7.45

3.20
275.36
9.09
266.27

263.20
9.05

266.40
5.85

272.33
4.80
277.13 H.I.
267.40
9.73
267.65
9.48

267.90
9.23
268.15
8.98
268.28
8.85

Deep sewer on B 4' north of south curb. Mar. 10/13 Childs Taylor Otten

from 5' west of east curb. of 3rd to 5' west of east curb of 4th & so. 126.

Sta		H.I.	Rod	Ground	Grade.	Cut
T.P.	3.93	54.28		50.35		
0+00	M.H. 5' west of east curb of 3rd & B. 6" offset.		9.7	44.6	28.00	16.6
+25			9.7	44.6	28.50	16.1
+76			8.4	45.9	29.52	16.4
1+27			7.1	47.2	30.54	16.7
+78			5.7	48.6	31.56	17.0
2+29			5.0	49.3	32.58	16.7
+80	M.H. 5' west of east curb of 4th & B.		4.8	49.5	33.60	15.9
	Going south					
0+00	M.H.		4.8	49.5	33.60	15.9
+40			5.1	49.2	34.24	15.0
+80			5.3	49.0	34.88	14.1
1+26	dead end.		5.7	48.6	35.62	13.0

10"

8"

50.35
3.89
54.24 H.I.
9.48
44.76
28.52
16.24

9.48
8.10
46.14
29.50
16.64

6.73
47.51
30.56
16.95

4.65
49.59
32.48
17.11

50.35
3.90
54.25 H.I.
5.23
49.02
31.56
17.46

49.3
13
36.3

4.66
49.59
33.60
15.99

46
2
92

50.35
3.25
53.60 H.I.
4.20
49.40
34.24
15.16

4.31
49.29
34.88
14.41

4.55
49.05
35.60
13.45

126) 202 (1.60
126
760
756
40

.64

46
160
2760
46
736

Pine Street from Center of Ft. Stockton North 385'.

Apr. 11/13 { Childs, Otten, Bunker

Sta.		H.I. 267.72	Rod	Ground	Grade	Cut
0+00	MH Center Ft. Stockton		4.7	263.0	254.60	8.4
+50			4.32	263.40	254.80 ✓	8.6
1+00			4.00	263.72	255.00 ✓	8.7
+50			3.9	263.8	255.20 ✓	8.6
+62.3	MH angle.		4.7	263.0	255.25 ✓	7.8
2+00			4.30	263.42	255.40 ✓	8.0
+50			5.2	262.5	255.60	6.9
3+00			6.92	260.80	255.80	5.0
+30.3 = Dead End						
~~+50~~			~~8.9~~	~~258.8~~	~~256.00~~	~~2.8~~
~~+85 dead end.~~			~~10.65~~	~~257.07~~	~~256.14~~	~~1.0~~

263.40
3.89
267.29 H.I.

254.80
12.49 ✓

255.00
12.29 ✓

255.20
12.09 ✓

255.25
12.04 ✓

Note:-
These cuts do not apply for graded Street.
D.E. located at Sta. 3+30.3, 12-22-19.

.2/50 × 30.3
.12
50 | 6.03
50
10.3

330.3
162.3
168.0

Sewer on Ft. Stockton from center of Witherby

N.W. 4.2 west of center of Ft. Stockton.

Apr. 21/13 Childs Bryant Alten

Nov. 8/13

Sta.		H.I.	Rod	Ground	Grade	cut
J.P.	4.58	267.98		263.40		
0+00	M.H. center of Witherby		5.2	262.8	256.00	6.8 ✓
+50		↳	5.95	262.03	256.20	5.8 ✓
1+00	dead end.	H.I.	6.09	261.89	256.40	5.5 ✓
	4.28	266.17				
+50			4.46	261.71	256.60	5.1
2+00			4.71	261.46	256.80	4.7
+50			4.73	261.44	257.00	4.4 ✓
3+00			4.97	261.20	257.20	4.0 ✓
+49.71	Center of Hortensia	↳	4.78	261.39	257.40	4.0 ✓
4+00			3.88	262.29	257.60	4.7 ✓
+23.71	M.H. 49' west of west line Hortensia.		3.4	262.8	257.70	5.1 ✓
+50			3.79	262.38	257.80	4.6 ✓
5+00		H.I.	3.79	262.38	258.00	4.4 ✓
	8.32	270.70				
+50			8.68	262.02	258.20	3.8 ✓
+98.71	M.H. center of alley.		10.2	260.5	258.40	2.1 ✓
6+50			6.95	263.75	259.47	4.3
7+00			5.46	265.24	260.51	4.7
+47.7	M.H. about 1.7 So. of lot M. 8.33 272.08		3.9	266.8	261.50	5.3

63
52

261.44
4.87
266.31 H.I.

66.31 57.00 9.31 ✓ | 66.31 57.20 9.11 ✓ | 66.31 57.40 8.91 ✓

66.31 57.60 8.71 ✓ | 66.31 57.70 8.61 ✓ | 66.31 57.80 8.51 ✓ | 66.31 58.00 8.31 ✓ | 66.31 58.20 8.11

66.31 58.40 7.96

Continued on page 68

State Street from center of Juniper to 40' So. of Kalinia.

May 6/13 Childs Otten Bunker

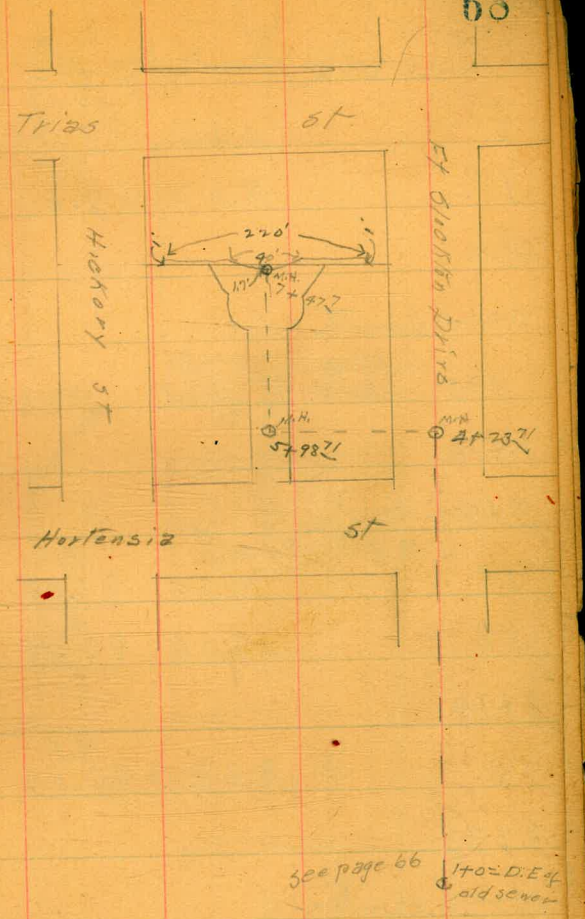
Sta.		+	H.I.	Rod	Ground	Grade	cut
J.P.		12.85	87.75		74.90		
0+00	M.H. center of Juniper + State		Drop	9.7	78.0	71.00	7.0
+50				9.53	78.22	72.25	6.0
1+00				8.01	79.74	73.50	6.2
+50				6.2	81.6	74.75	6.9
2+00				4.80	82.95	76.00	7.0
+50				3.4	84.4	77.25	7.2
3+00	dead end.			1.94	85.81	78.50	7.3

272.08
NORTH

0+0 = 7+47 Z M.H. page 66	5.3	266.8	261.50	5.3
0+20 △ = 1' in of Lot line	5.1	267.0	261.77	5.2
+50	4.7	267.4	262.18	5.2
1+0	4.4	267.7	262.86	4.8
1+10 D.E.	3.92	268.16	263.00	5.2

South

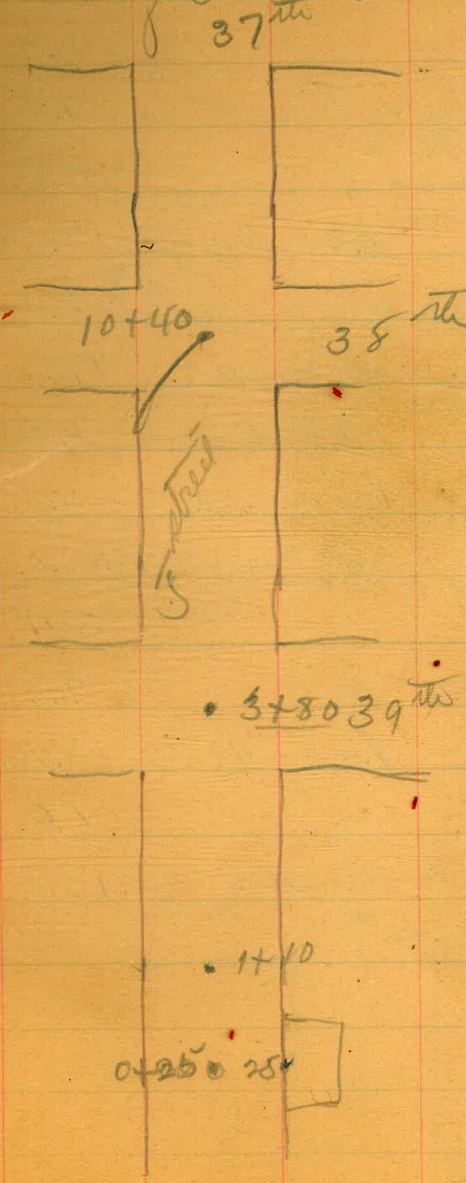
0+0 = M.H. 7+47 Z	5.3	266.8	261.50	5.3
0+20 △	5.73	266.35	261.68	4.7
+50	6.1	266.0	261.95	4.0
1+0	6.9	265.2	262.41	2.8
1+10	7.0	265.1	262.50	2.6



Levels for sewer from Sierra park to M.H. in

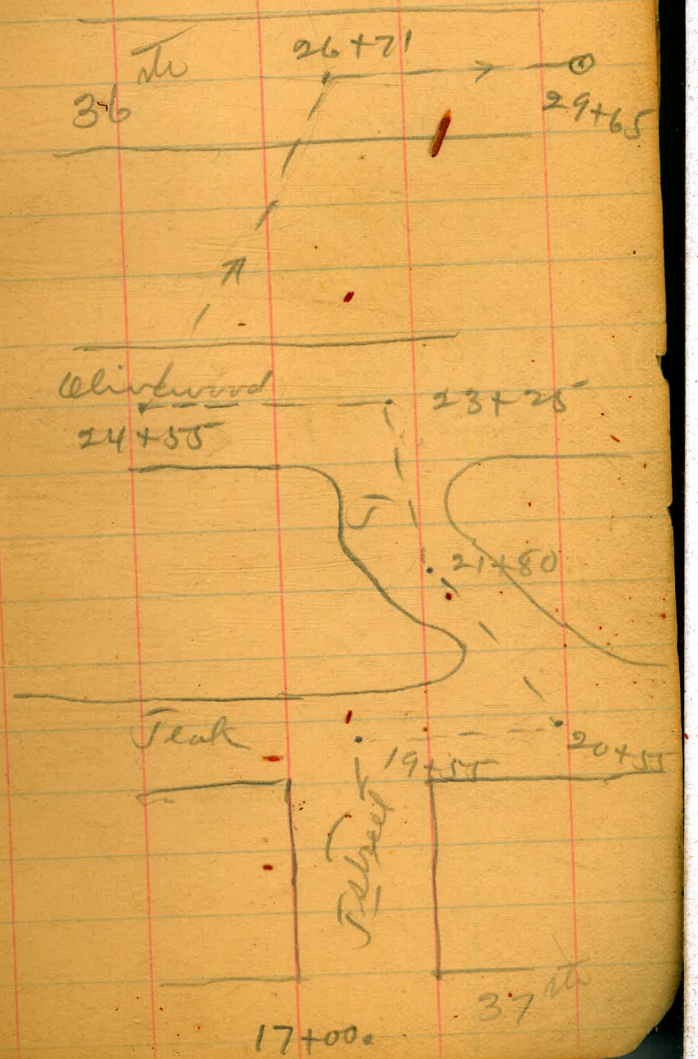
I		0.57	H.I. 77.51		76.9
J.P.		2.02	H.I. 69.65	9.88	67.[illegible]
sta.					
0+00	South edge of Septic tank no. line J. street.			11.6	58.0
+25				11.7	58.0
1+10				8.2	61.4
3+80	center of 39th st. + J			1.4	68.2
J.P.		11.56	H.I. 81.04	0.17	69.48
J.P.		13.08	H.I. 93.77	0.35	80.69
6+10				8.9	84.9
J.P.		3.43	H.I. 96.63	0.57	93.20
8+35				2.3	94.3
10+40	center of 38th street + J			4.6	92.9
12+50				8.7	87.9
13+15				7.7	88.9
J.P.		0.75	H.I. 84.37	13.01	83.62
15+50				2.6	81.8
J.P.		2.04	H.I. 73.47	12.94	71.43
17+00	center of 37th street + J.			3.1	70.[illegible]

Septic tank in 36th west of South Look. Nov. 15/13 Child Otten Bunker

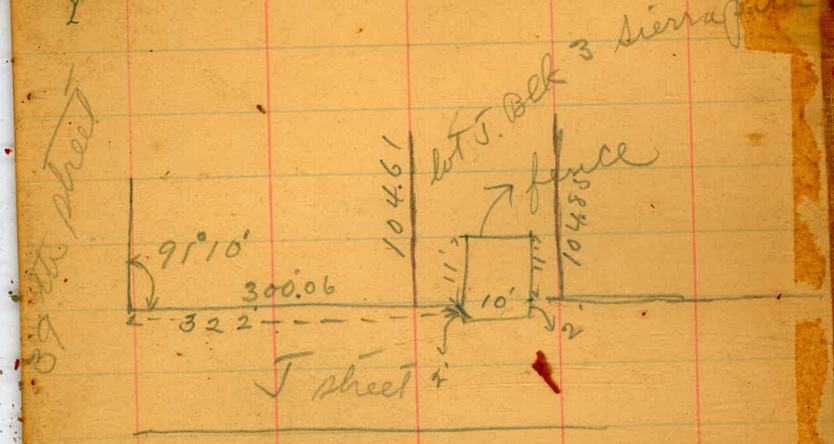


73.47

Sta.					
18+20				4.3	69.
19+55	center of T			9.4	64.
20+55	T Peak center of T			7.4	66.
T.P.	T Peak	0.33	H.I. 60.73	13.07	60.4
21+80	On Peak			2.4	58.
23+25	center of Olivewood T Peak		H.I.	11.6	49.
T.P.		0.38	48.19	12.92	47.8
24+55	center of Olivewood			5.5	42.
26+71	center of 36th street			15.0	33.
27+55				3.4	44.
28+15				9.3	38.
T.P.		7.00	H.I. 42.29	12.90	35.
28+75				1.6	46.
29+65	M.H. Centerline center 36th			10.8	31.



Location of Septic Tank
on J. between 39th & 40th



Mar 6/15 { Childs
Allen
Kerr

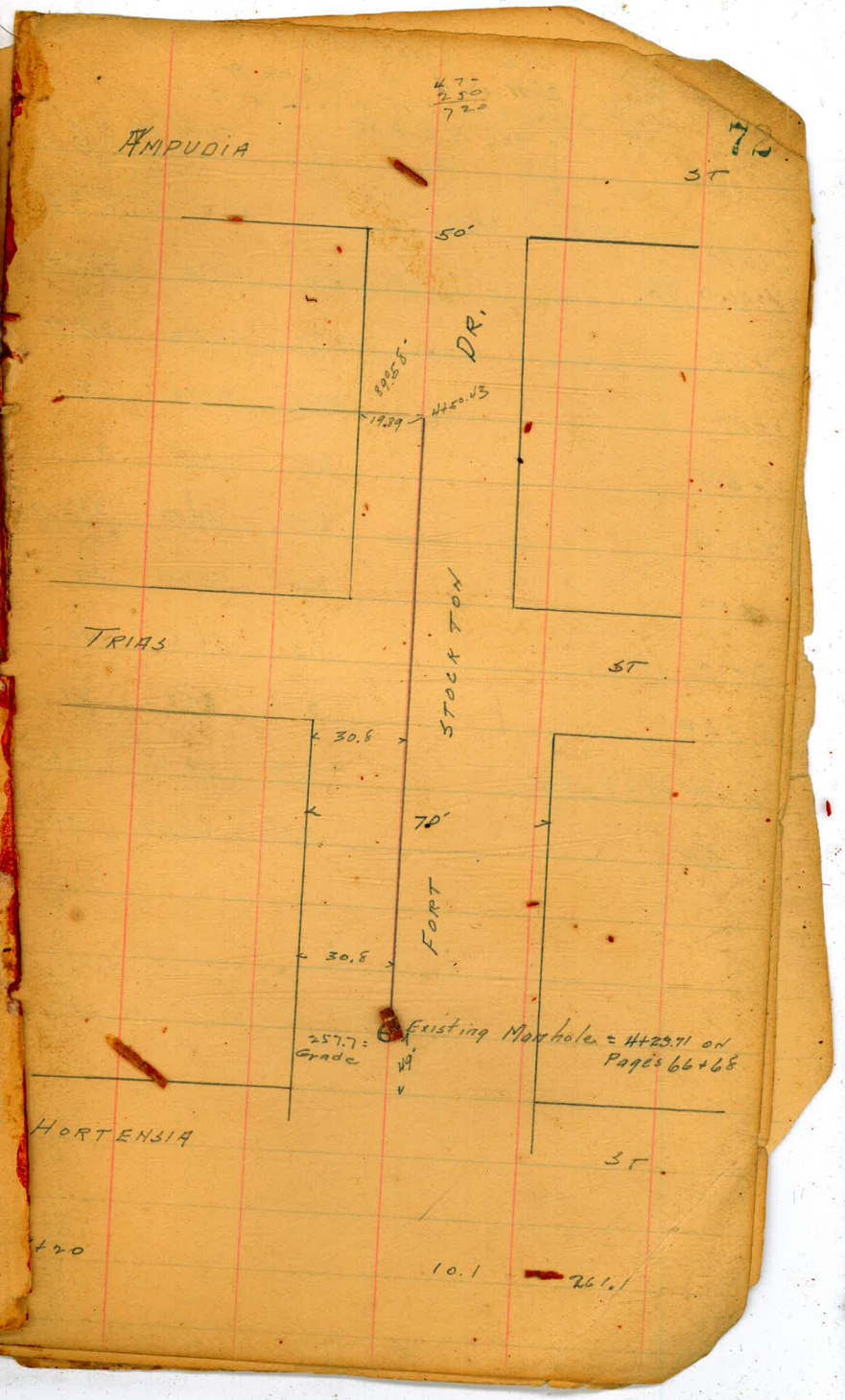
7

11/13/19
Gregory Miller

Levels on Sewer Survey
Xrom Existing Manhole 49'
west ox Hortensia + 4.2' S.
ox ℄ ox Ft Stockton
Sketch Next page.

		4.05	271.11		BP on Trias + Stock 267.06
0+00 = Existing MH.				8.5	262.6
1+00				6.8	264.3
2+00				5.2	265.9
2+50.51 = EL Trias				4.3	266.8
3+00.51 = WL ✓				4.7	266.4
3+50				5.0	266.1
4+00				5.5	265.6
4+50.43 = △ pt.				6.7	264.4
4+60.30				7.3	263.8
4+60.32				6.6	264.5
4+70.32 = SL Ft Stockton				6.3	264.8
4+73				5.5	265.6
5+00				5.6	265.5
5+50				5.0	266.1
6+00				6.2	264.9
	75' W ox 6+00			10.5	260.6
6+35				7.0	264.1
6+65				9.1	262.0
7+00				10.0	261.1
	75' W ox 7+00			14.3	266.8

39 ft street



14/23 Gregory Moore Miller CW

Sewer Construction
2' W. of ℄ of FOURTH St
from a point 18' N. of SL of B St
to the N.L. A St.

Nails are on ℄ of 4th St 2' E of Sewer Line

18' N. of SL of	10.53	60.88		50.35	BP NW 4th + B
B St = 0+00 M.H.			11.24	49.64	~~33.96~~
+52			10.76	50.12	~~35.00~~
1+02			9.64	51.24	36.00
+52			8.17	52.71	37.00
2+02			6.85	54.03	38.00
+52			5.64	55.24	39.00
3+02			4.31	56.57	40.00
+52			3.06	57.82	41.00
4+02 = M.H. ℄ of A St.			1.73	59.15	42.00
+42			0.26	60.62	44.00

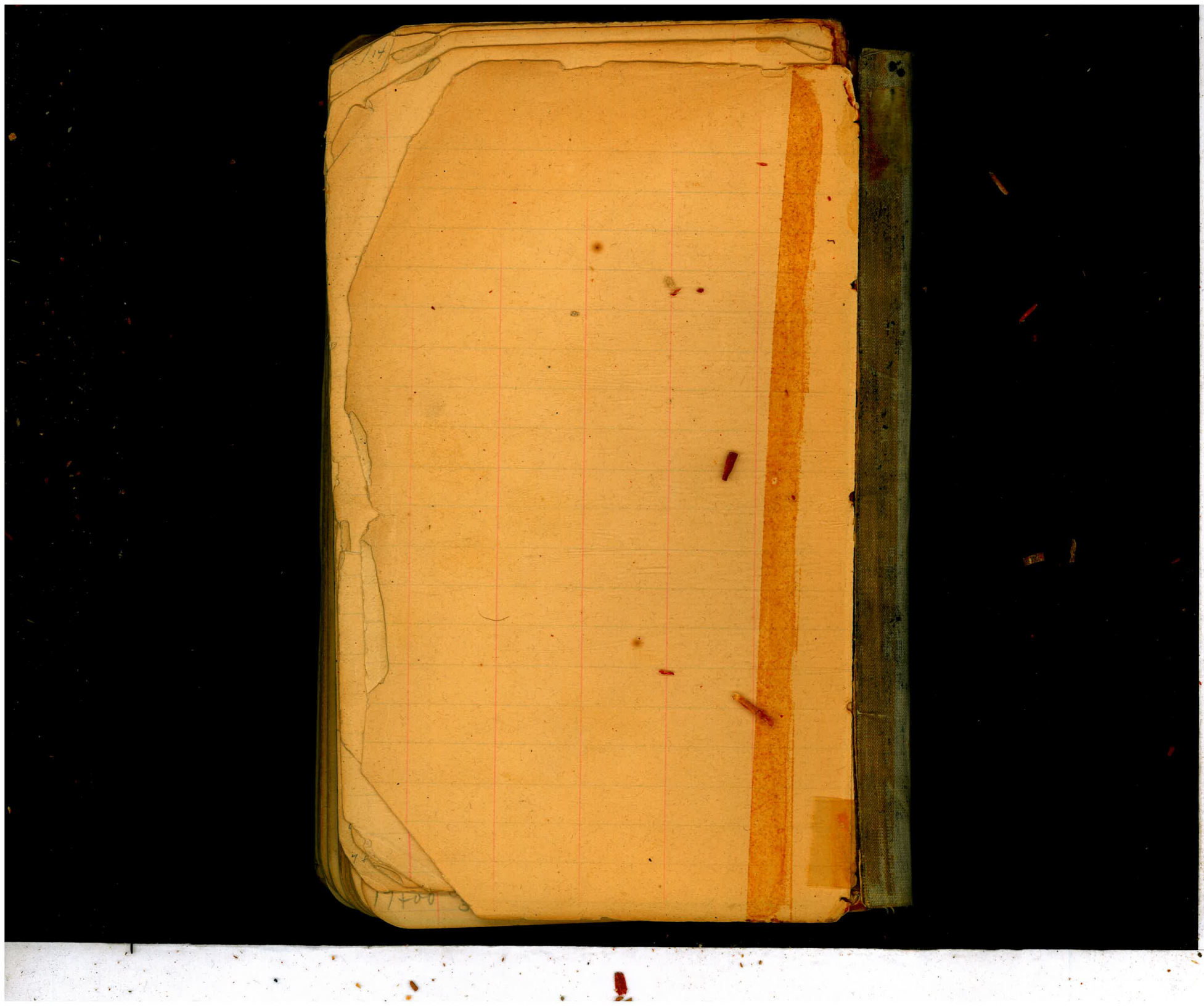
8.66
12.61
21.27

40.2
.2
80.4

10.4

5532
26.96
34.36 = Bottom Conduit

5532
21.27
34.05
1.05
33.00 = Flow Line of 12"

50.35
4.97
5532 Ab.

~~15.68~~	Flow Line of 12" Sewer is 33.00 = Bottom M.H.
✓ ~~15.12~~	Grade changed to 33.25 + 8.44 from plug in wall
✓ 15.24	Remains the same.
✓ 15.71	
✓ 16.03	
✓ 16.24	
✓ 16.57	
✓ 16.82	
17.15	
16.62