360

TRANSIT

398

F.B. IND 360

TRAVERSE 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	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
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	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
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	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
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	50.38	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							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees
	DEGREES		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		

Published by H. S. Crocker Company, Stationers, Drawing Materials, Mathematical Instruments, etc., San Francisco.

D 30
360
Return to City Engineers Office
City Hall, San Diego, Cal.

Crocker Quality

TRANSIT BOOK

No._____

MANUFACTURED BY

H. S. CROCKER CO.

SAN FRANCISCO AND SACRAMENTO
CALIFORNIA

FROM
LORING'S BOOK STORE
SAN DIEGO, CAL.

MICROFILMED
DEC 1 1964

1.e sew ~~[illegible]~~ N&S of Bridge

1—S-

3 ~~[illegible]~~ N~~[illegible]~~

Book 901 / 7 to 9

6/23/1 Gregory Sewer Levels in Alley bet Grand + Boston
Moved Miller + from M.H. on Chollas Outfall Sta. 61+13.6 (Boston-9
to ℄ of 35th St.

	5.39	3.63	−1.76 = Bk. Sight Back Bench Mk. M.H.
0+00 = M.H. Sta 61+13.6		1.3	2.3
+50		3.0	0.6
1+00		3.2	.0.2
+50		3.2	0.4
+70		2.2	1.2
2		3.1	0.5
+25		2.2	1.2
+50		3.0	0.6
3		3.7	−.1
+50		4.1	−.5
4		4.6	−1.0
+50		4.2	−.6
5		4.6	−1.0
+50		4.7	−1.1
6		5.2	−1.6
+30		5.2	−1.6
+36.8 = W 13' Line 34th St.		3.77	−0.12 high ℄ 0.02 2.42 3
+49.8 = ℄ 34th St.			
+47		0.9	2.7
+54		0.8	2.8
+65		5.9	−2.3
7		4.7	−1.1
+40		3.3	.3
TP	12.90	15.87	0.66 2.99

15.87

+80		9.5	6.4
8		7.9	8.0
+15		7.1	8.8
+50		9.2	6.7
+86		8.0	7.9
9		4.2	11.7
TP	13.02 28.32	0.57	15.30
+25		9.3	19.0
+45	should be 15' deep	4.7	23.6
+75		3.7	24.6
10		2.3	26.0
+30		0.7	27.6
+70		1.0	27.3
TP	9.10 36.62	6.80	27.52
11		7.3	29.3
+50		7.2	29.4
12		5.0	31.6
+40		3.9	32.7
+55		3.8	32.8
+70		2.6	34.0
+76.6		3.2	33.4
1+92.0		3.8	32.8
13+06.5 = ℄ 35th		2.7	33.9

continued on next page

6/22/21 Gregory Sewer Levels on ℄ 34th St
Moore from Stg 6+49.8 on preceding page
Miller N. to ℄ Alley bet Natl. & (Grand.) Newton

	8.14	8.10	-0.14
0+00 = 6+49.8 on preceding page		5.3	2.8
+50		5.6	2.5
1		6.0	2.1
+50		6.2	1.9
2		6.6	1.5
+50		5.9	2.2
3		5.3	2.8
+50		5.1	3.0
+80 = Stg. 6+58 Book 901-19		4.6	3.5

↑ The sewer in this alley has a laundry on it now.

M/H Stg 7+05 Book 901-19		7.69	0.41
Ref. SW 34th & Natl.		21.2	5.98

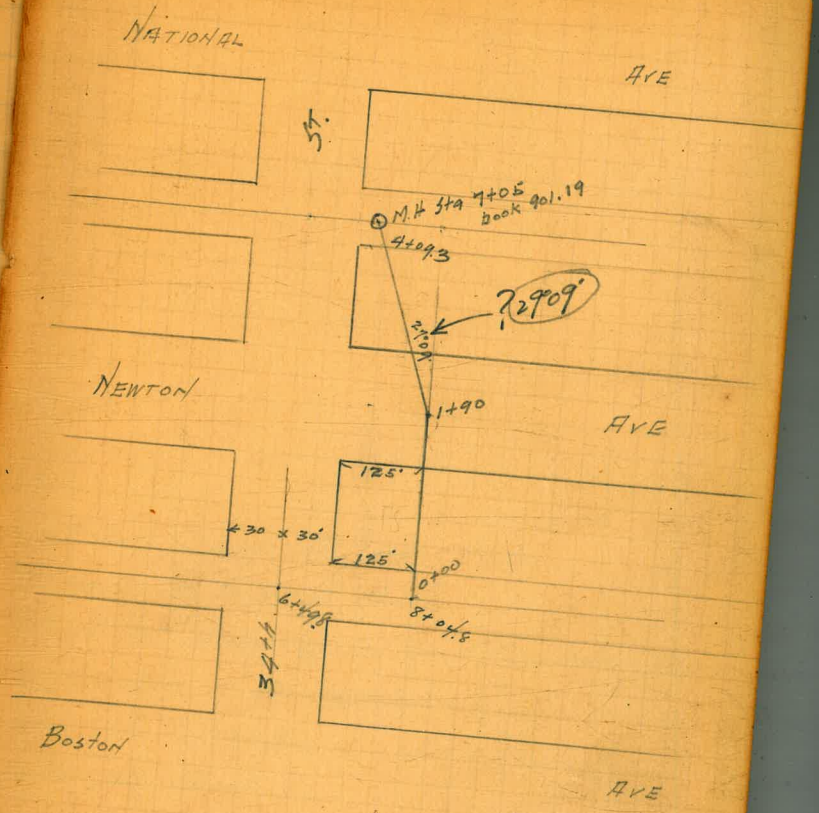
Top of Sewer 10" W of ℄ of 34th & ℄ Alley 7.48

4/24/23 Gregory Moore Miller Shaw Levels & Alley bet Boston & Newton from ℄ 35th St to 36th St

	9.18	9.04	-0.14
	12.71	21.45	8.74
	12.86	34.19	21.33
	12.80	46.44	33.64
13+06.5 = ℄ 35th St.		12.4	34.0
+15		12.6	33.8
+60		10.5	35.9
+80		11.6	34.8
14		11.8	34.6
+50		10.0	36.4
+75		9.7	36.7
15		7.9	38.5
+25		7.8	38.6
+45		6.9	39.5
+70		7.2	39.2
16		6.4	40.0
+50		5.6	40.8
17		4.8	41.6
+25		3.5	42.9
+70		2.0	44.4
+85		2.1	44.0
18		2.2	44.2
+50		0.4	46.0
T.P.	6.58	52.77	46.19
19		4.8	48.0
+50		3.6	49.2

4/24/23 Sewer Levels from ℄ Alley bet Newton
Gregory & Boston thru block N. to M.H ℄ Alley bet
National & Newton

	11.23	19.97	8.74	TP from last page
Sta 8+04.8 Front page this book				
= 0+00			12.0	8.0
+06.0			9.6	10.4
+30			5.8	14.2
+37			5.5	14.5
+70			8.9	11.1
1			10.8	9.2
+20			10.5	9.5
+55			10.4	9.6
+90 △	29°09'L		8.6	11.4 nail
2			10.1	9.9
+20			10.5	9.5
+35			12.3	7.7
TP	5.10	12.36	12.71	7.26
+55			7.9	4.5
+85			8.4	4.0
3			6.6	5.8
+30			2.2	10.2
+45			0.9	11.5
+70			2.1	10.3
4			7.1	5.3
+8			8.4	4.0
+09.3 = M.H Sta 7+05 Book 901-19			11.90	0.46



76

+09.3 = M.H Stg 7+05 Book 901-19

67+.

66+79 △ Cr.s of 34th and Pluto.

58' from Cr. to west Fence.

34th St 25' at Woolman and 30' at P.L. between Fences

52+95 5' N. of P.L. (approx)

45+95 N.L. street

42+73. N.L. Street

39+75 Cr Woolman and 34th 90° Right

34+40.5 △ Cr. Woolman and Felton. 90° Left

27+00 △

14+28 ± ℄ Trolley Line to Cemetry

7+75 △ 90° R. (approx) to Cr of Felton St

4+04 = Cr. Cuyamaca

0+00 = EL 32d at Cr of K. Then East on K

1/20/10	Hatch Moore Thomas	Levels on line for Sewer in		
	7.32	85.68		78.35
0+00			4.5	81.2
+10			3.4	82.3
+50			3.4	82.3
1 -			3.6	82.1
50			3.7	82.0
2 -			4.5	81.2
+25			8.3	77.4
+50			12.0	73.7
T.P.	0.03	73.30	12.41	73.27
+80			4.7	68.6
3 -			8.8	64.5
T.P.	0.07	60.33	13.04	60.26
+25			2.8	57.5
+50			9.8	50.5
+75			12.4	47.9
4			12.6	47.7
+04			12.3	48.0
T.P.	0.33	47.62	13.04	47.29
+20			1.2	46.4
+35			8.6	39.0
+50			12.0	35.6
+57				
T.P.	2.75	37.97	12.40	35.22

Cholla Valley beginning at E.L. of 32d on ℄ of K

BM monument on SE Cor. 32d and L

R of W Fence.

℄ Cuyamaca

R of W Fence

		37.97		
+80			8.2	29.8
5 —			8.9	29.1
6			9.5	28.5
7			9.5	28.5
+75 △ ∠ 90° R.			9.6	28.4
TP	0.80	29.27	9.50	28.47
8			1.0	28.3
9			1.8	27.5
10			2.8	26.5
11			3.4	25.9
12			4.3	25.0
13			4.9	24.4
+85			5.0	24.3
+90			2.1	27.2
14			2.0	27.3
+28.2 △			1.1	28.2
+35			1.8	27.5
+50			4.2	26.1
15			5.6	23.7
16			6.2	23.1
TP	2.10	25.47	5.90	23.37
17			3.2	22.8
18			3.7	21.8
19			4.3	21.2

℄ Cemetery Car-line

1/21/10 Hatch Moore Thermos					
		2547			
20			4,8	20,7	
21			5,4	20,1	
22			6,0	19.5	
23			6,5	19.0	
24			6.8	18,7	
T.P. =	2,13	21 04	6,56	18.91	
25			2.9	18,1	
26			3,2	17,8	+03 Fence
27 Δ			4,0	17.0	
+50			5.8	15.2	
28			6.4	14.6	
+50			6.5	14.5	
29			6.7	14.3	
+40			7.9	13.1	
30			7.6	13.4	
+50			7.9	13.1	
+80			8.7	12.3	
31			9.4	11.6	
+50			8.5	12.5	
32			11.4	9.6	
T.P.	8,20	18 36	10.88	10.16	
+28			12.0	6.4	N edge of creek
+50			11.8	6,6	S " " "
33			7.1	11.3	

		1836		
+40			4.9	13.5
34			5.2	13.2
+40.5 △			4.8	13.6
BM.			5.18	13.18
35			5.0	13.4
36			5.6	12.8
37			5.7	12.7
38			4.9	13.5
+30			4.5	13.9
39			3.0	15.4
T.P.	4.63	20.87	2.12	16.34
+35			1.7	19.2
40			3.9	17.0
41			4.9	16.0
42			5.4	15.5
43			6.8	14.1
44			8.1	12.8
45			9.5	11.4
46			10.1	10.8
T.P.	4.10	14.89	10.08	10.79
47			4.4	10,5
48			4,3	10.6
49			4.8	10.1
+50			5.3	9,6

Cr. Woolman and Felton

Square spk in Elec Pole SW Cor. Woolman - Felton

Cr. Woolman - 34 1/2 (34 1/2 is 35' between Fences)

		1489		
50			5-3.	9.6
+50			5-0	9.9
51			4,9	10.5
+50			5-9	9.0
52			6.8	8.1
T.P.	5.87	13.61	7.15	7.74
+40			5-9	7.7
+80			4.9	8.7
+91			+1,0	14,6
+95			+1.0	14,6
53+65			5-4	82
54			8.5-	6,1
+50			9.3	4,3
55+50			9.7	3,9
+65			7.0	6,6
+90			7.1	6,5
56			7.5-	6,1
+25			8.2	5-4
+50			10.1	3.5-
57			11.2	2 4
+50			10,3	3,3
58			10.8	2,8
+50			11,2	2,4
59+05			11,0	2,6

Intersection of ℄ 34th (North) with line 5' N of P.L.
" " " " (South) " " " " "

		13.61				
7.1?	3.62	7.87	9.36	4.25		
+08			3.4	4.5		Nt. National
+50			3.6	4,3		
60			3.1	4,8		
+15			2.6	5,3		
+30			5.8			
+50			6.4			
Bm			1.58	6.29	6.396	34th - National (Mon.)
61			6.7			
+50			7.4			
62			7.1	+0.8		
" 2' west.			8.4	- 0.5		
+50			7.7	0.2		
63			7.8	0.1		
+50			7.8	0.1		
64			7.6	0.3		
+62			7.0	0.9		
+80			5.8	2.1		
65			5.6	2.3		
+28			5.0	2.9		℄ Track.
+60			5.7	2.2		
66			9.0	- 1.1		
+79 A			9.5	- 1.6		Cr of 34th St and Platte St.
+95			9.0	- 1.1		

66+15.6			5.3	

Line South on Felton St from Woolman and on 33d St.

BM	3.70	16.88		13.18
34+40.5			3.2	13.68
35			3.8	13.1
36			4.5	12.4
37			4.3	12.6
38			4.3	12.6
39			4.9	12.0
40			6.8	10.1
41			7.8	9.1
42			8.2	8.7
43			8.7	8.2
44			9.2	7.7
45	3.11	11.57	8.42	8.46
45			4.1	7.5
46			4.3	7.3
47			4.8	6.8
+55			5.7	5.9
+60.5 △ 90°20' R.			4.5	7.1
48			4.3	7.3

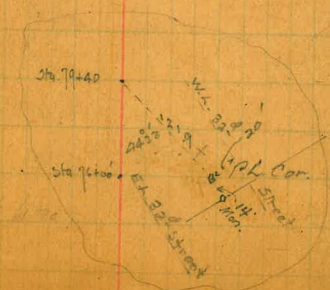
M.H. ℄ Lot 24

– Alignment –

℄ Ry Track

34+40.5 Cr Woolman – Felton
47+60.5 " 90°20' R. – Pueblo Line {10' N. of ℄ Belt Line}
49+59.5 90° odd L. 8.3 N. of Belt Line and on Cr of 33d St.
53+80 – S.L. National
62+00 △ 9°00' Right
68+34.5 △ 13°20' Right
68+65.5 ℄ N.C. & O.
68+77.5 Bulkhead
71+26 Cr. Main St.
72+90 △ 9°20' Right
75+00 △ 25°40' Right
76+00 △ 16°00' Left
79+45 ∠ 37.8 40°22' Lt. ~~7°20'~~ 1°00' Left (on 32d St. 121.5 South of P.L. 121.5+14' Corrected P.L.
90+15 ℄ Santa Fe. 109.9 West to Cr. 12"x12" Cap at end of Trestle

72.90
68.34.5
455.5
437
17.5



10' North of Belt Line

		11.57			
A8+50			3.7	7.9	
+92			{3.9 6.6}	5.0	Bulkhead at end of Trestle
A9			8.0	3.6	
+45			10.0	1.6	
+59.5 Δ 90° odd left			10.6	1.0	10' North of Belt Line
+93			10.9	0.7	
50			9.9	1.7	
+15			8.0	3.6	
+50			7.7	3.9	
51			7.9	3.7	
T.P	3.06	7.42	7.21	4.36	
52			4.0	3.4	
53			4.6	7.8	
54			5.2	7.7	
+88			5.1	2.3	
TP	11.11	14.17	4.36	3.06	
55			4.5	9.7	
+50			4.5	9.7	
+75 Δ			4.1	10.1	
+80			5.0	9.2	South Line National
+92			11.9	2.3	
56			12.9	1.3	
TP	4.62	6.78	12.01	2.16	
+51			5.9	0.9	

		6.78		
+40			9.8	-3.0
+60			11.5	-4.7
-75			8.9	-2.1
+80			5.6	1.2
57			5.5	1.3
50			5.2	1.6
58			5.4	1.4
+40			7.9	-1.1
+50			11.8	-5.0
59			12.2	-5.4
+50			12.6	-5.8
+60			9.0	-2.2
60			7.2	-0.4
+50			5.1	1.7
61			5.2	1.6
62	Δ	9 00 R	6.3	0.5
TP	2.46	4.26	4.98	1.30
63			4.3	0.0
+20			5.1	-0.8
+30			9.5	-5.2
+60			8.5	-4.2
+67			4.1	0.2
64			4.3	0.0
65			5.6	-1.3

Slough

Nail in fence post 27' S. of sta 61

		4.26		
66			5.4	−1.1
+50			5.2	−0.9
67			3.6	0.7
+50			3.5	0.8
+90			2.8	1.5
68			1.3	3.0
T.P.	12.40	16.66	0.0	4.26
+31.5 △	13°20' R.		7.7	9.0
T.P.	6.99	19.97	3.68	12.98
+55			2.4	17.6
+65.5			1.3	18.7
+77.5			2.7	17.3
T.P.	1.43	11.44	9.96	10.01
+78			10.1	1.3
69			10.0	1.4
+15			10.0	1.4
+50			6.9	5.0
70			4.6	6.8
+50			6.4	5.0
71			8.8	2.6
+36			10.0	1.4
+50			9.1	2.3
72			3.4	8.0
+03			2.1	9.3

℄ N C & O
Blk Head.

N. edge of fill on Main St.

		11 AM		
+26			1.9	9.5
+45			3.2	8.2
+50			4.6	6.8
+60			6.2	5.2
+90	Δ 9°20 R		8.9	3.0
T.P.	1.65	4.75	8.34	3.10
73			1.3	3.4
+25			2.8	2.4
+65			6.6	-1.8
74			7.1	-2.4
+50			7.1	-2.4
+60			7.4	-2.7
+85			3.5	1.2
75	Δ 25°10 R		2.2	2.5
+07			1.0	3.7
+50			3.0	1.7
76	Δ 16° L		3.9	0.8
+25			5.2	-0.5
+50			5.7	-1.0
77			3.1	1.6
+50			4.6	0.1
+75			3.7	1.0
78			6.4	-1.7
+15			7.7	-3.0

Ct. Main St.

S. edge Main St

		475		
79			7.8	-3.1
+15			7.6	-2.9
+20			6.2	-1.5
+40	Δ 7°20'L		6.5	-0.8
TP	5.08	4,31	5.52	- 0.77
+60			6.0	-1.7
+75			8.2	- 3.9
80			8.2	- 3.9
81			8.0	- 3.7
82			7.9	-3.6
83			8.2	-3.9
84			7.9	-3.6
85			8.2	- 3.9
86			8.2	- 3.9
87			8.4	- 4.1

embankment on 32nd St. 121.8 South of P.L.

2 Hatch
4 Moore
10 Thomas.

Line from Sta 7+75 of Trunk
Line up 33d - 34th and 35th

T.P.	6.38	41.60		35.22
0+00 = 4+75 Line A.			13.2	28.4
1			12.7	28.9
+60			12.0	29.6
+70			19.2	22.4
+80			17.2	24.4
2			5.2	36.4
+04			3.5	38.1
+11.5			2.3	39.3
+20			3.2	38.4
T.P.	2.19	35.63	8.16	33.44
+45			10.0	25.6
+60			8.8	26.8
+70			4.6	31.0
+86.5 △ 23°27' Left			4.7	30.9
3			4.7	30.9
4			3.5	32.1
5			2.7	32.9
6			1.9	33.7
7			1.2	34.4
8			0.7	34.9
T.P.	6.64	41.75	0.52	35.11
9 +87			6.1	35.6
			5.6	36.1

R of W Fence

℄ RR

150' E. elev. is 1 ft lower.

℄ 1 St.

Profile plotted
Sheet B 8

		41.75				
11			5,4			
12			5.3			
+17	△ 90° R.		4,8	37,0		℄ 33d and H.
Bdn.			3.56	38.19	38,26	Spk in Fence. Cor. SW. 33d and H.
13			4.6			
14			4,6			
15			3,8			
16			2,8			
+09.5	△ 90° L		2,8			℄ 34th and H.
+50			2.6			
T.P.	3.36	42.61	2.50	39.25		
17+50			3,4			
18			2,2			
19			0,7			
T.P.	5.22	47.63	0.20	42.41		
20			5.3			
21			5.2			
22			3.9			
23			4.1			
+60	△ 90° R.		3.2			℄ F and 34th
24			3.1			
T.P.	1.70	52,33	3.00	44.63		
25			7,3			
26			6,6			

		52.33		
27			5.8	46.5
28			5.2	47.1
29			4.8	47.5
30			5.5	46.8
+20	△ 90° L.		5.0	47.3
+75			5.0	47.3
31 +25			4.7	47.6
+90			3.1	49.2
32.			0.3	52.0
T.P.	4.98	57.22	9.10	52.23
+15			3.4	53.8
+25			4.7	52.5
+30			7.4	49.8
33			6.4	50.8
34			4.9	52.3
35			4.9	52.8
36			3.9	53.3
T.P.	9.10	65.63	0.69	56.53
37			10.4	55.2
38			9.2	56.4
39			9.0	56.6
40			7.0	58.6
41			4.5	61.1
42			4.0	61.6

℄ 35th Ang F.

		65.63		
43			2.5	63.1
T.P.	5.06	70.07	0.62	65.01
24			5.3	64.8
+78			3.3	66.8
BM.			1.44	68.63

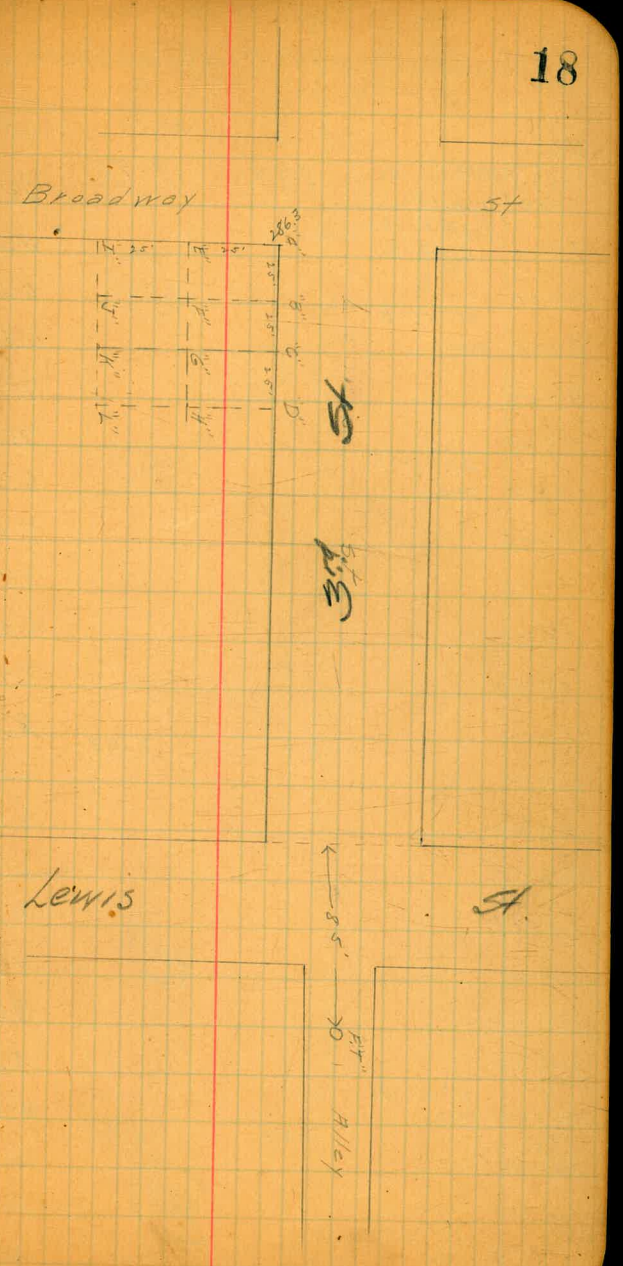
Top of NW Post of Wind Mill Tower 125 E of Sta 45

Levels for Sewer S.W. cor Lewis & Broadway
See Sketch opp Page

6/5/10

Dunkle
Shaw
Ervin,

B.M. S.W. brass w/g Lewis & Third			291.99
B.M.	4.34	296.33	
"A"		10.0	286.3
"B"		9.7	286.6
"C"		9.3	287.0
"D"		9.1	287.2
"E"		10.0	286.3
"F"		10.0	286.3
"G"		9.5	286.8
"H"		9.2	287.1
"I"		10.3	286.0
"J"		8.3	288.0
"K"		9.4	286.9
"L"		8.9	287.4

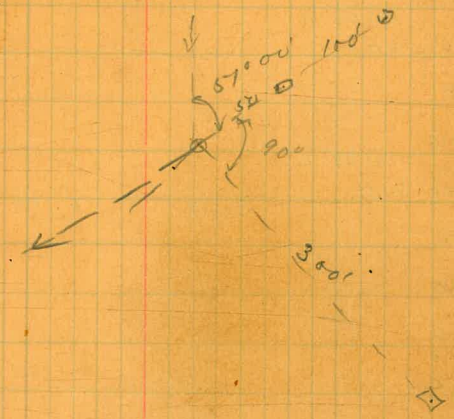


B.M. S.E. Cor. 34th & National

Outfall for Chollas Valley 6.40

Sta.			H.I.	Rod	Elev.
47+48.5	old line 90° L	3.50	9.90		6.40
= 0+00	M.H. 12' north of	2.39	11.47	0.82	9.08
	Pueblo line on center			4.8	6.7
1+00	of 33rd			5.8	5.7
2+00			300	6.7	4.8
3+00	45° 04' R M.H.			6.98	4.49
4+00				7.7	3.8
5+00				7.7	3.8
+52	44° 50' R M.H.		252	6.3	5.2
6+00				7.1	4.4
7+00				5.9	5.6
8+00				6.2	5.3
9+00				7.1	4.4
10+00				8.1	3.4
		129	7.69		6.40
11+00				6.3	1.4
12+00				6.1	1.6
13+00				6.2	1.5
14+00				8.5	-0.8
15+00			248	9.1	-1.4
16+00				9.3	-1.6
17+00				9.3	-1.6
18+00	5° 57' R M.H.			8.37	-0.68
J.P.		7.52	6.84		
19+00				6.1	0.7
20+00			255	4.4	2.4
+55	11° 55' L M.H.			5.14	1.7

Aug 5/10 { Childs, Barber, Taylor



Sta.			H.I.	Rod	Elev.
		(25)	6.84		
21+00				7.3	-0.5
22+00				7.1	-0.3
	17°05' R				
+70	M.H.			4.15	2.7
23+00				2.9	3.9
24+00				4.6	2.2
	10°39' L				
25+00	M.H.			3.67	3.17
T.P.		3.63	6.80		
26+00				3.0	3.8
27+00				4.2	2.6
28+00				7.0	-0.2
+40				10.6	-3.8
+50				4.5	2.3
+80				4.9	-1.9
+90				9.6	-7.8
29+00				6.6	0.2
30+00				7.6	-0.8
31				7.5	-0.7
32				7.5	-0.7
+65				9.2	-2.4
33				7.6	-0.8
+11				4.1	2.7
	51°03' L				
+35	M.H. in main	3.00	7.76	4.04	2.76
T.P.	street				
34				5.3	2.5
35				5.6	2.2
	76°41' R				
+60	M.H. in			5.40	2.4
+75	main street			6.1	1.7

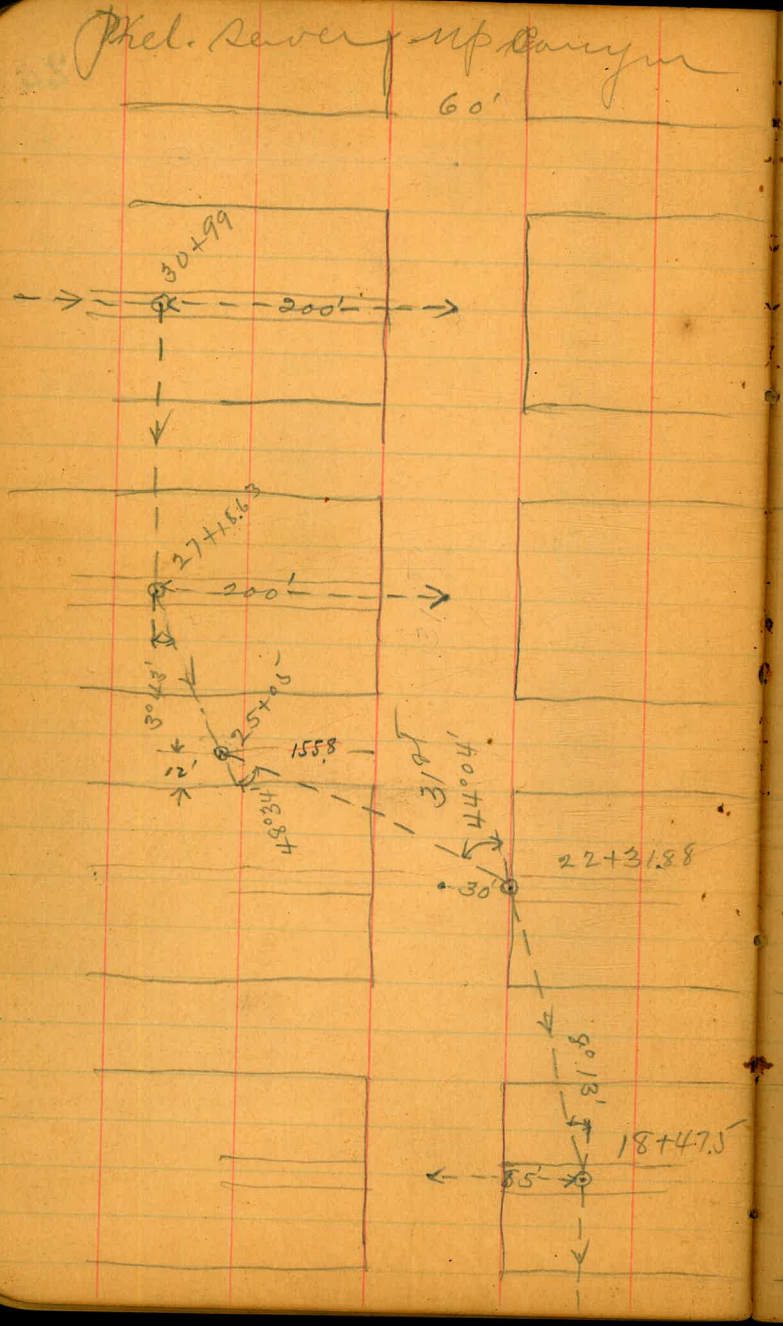
Sta			H.I.	Rod	Elev.
			7.76		
35+85				9.7	-1.9
36				9.4	-1.6
37				8.5	-0.7
38				9.1	-1.3
39				9.2	-1.4
+30				9.2	-1.4
+38				6.5	1.3
+49				5.0	2.8
+65				9.5	-1.7
40				9.2	-1.4
+37	37° 30' R			9.0	-1.2
+42	M.H.			6.50	1.3
41				8.2	-0.4
42				10.4	-2.6
+38				9.1	-1.3
+65	12° 59' L			5.95	1.81
S.S.	M.H.	7.62	9.43		
43				9.2	0.2
44				10.5	-1.1
45				10.9	-1.5
+42				10.3	0.9
46				3.9	5.5
47				6.5	2.9
48				9.7	-0.3
49				11.4	-2.0

Aug 5/10 { Childs, Barber, Taylor

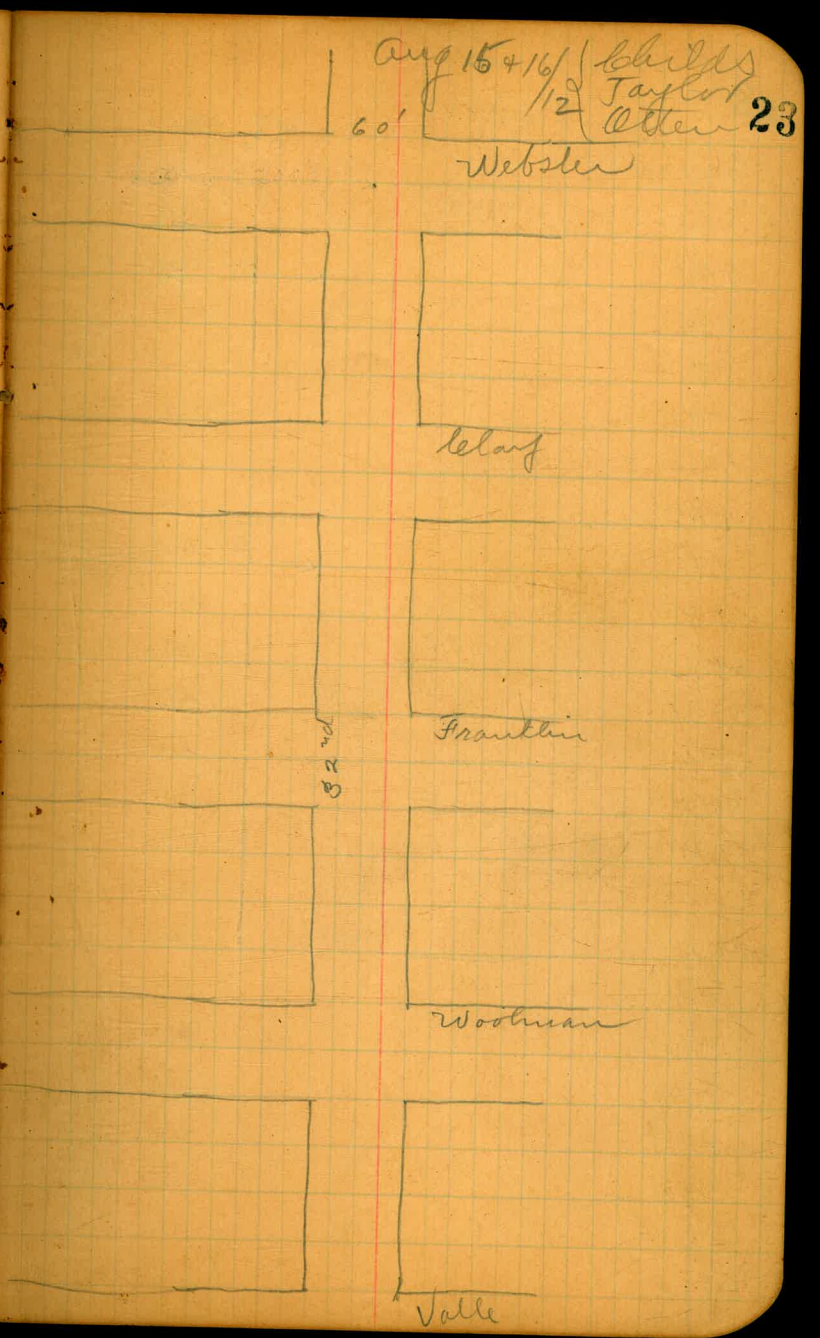
San Diego Ariz.

Sta.			H.I. 9.43	Rod	Elev.
50+00				8.9	0.5
+65				6.5	-2.9
51				9.4	0.0
+30	44°57'R M.H.			9.73	-0.30
+52		9.44	8.14	9.7	-1.6
52				7.9	0.2
53				5.4	2.7
54				4.1	4.0
55				1.4	6.7
55+98				1.8	6.3
56				2.4	5.7
+10				4.6	3.5
57	10°23'L M.H.			5.35	2.8
+40				6.1	2.0
+47				2.9	5.2
+60				3.4	4.7
+69				6.0	2.1
58				6.8	1.3
59				9.1	-1.0
60				9.5	-1.4
61				9.9	-1.8
62				12.3	4.2
+55				13.3	-5.2

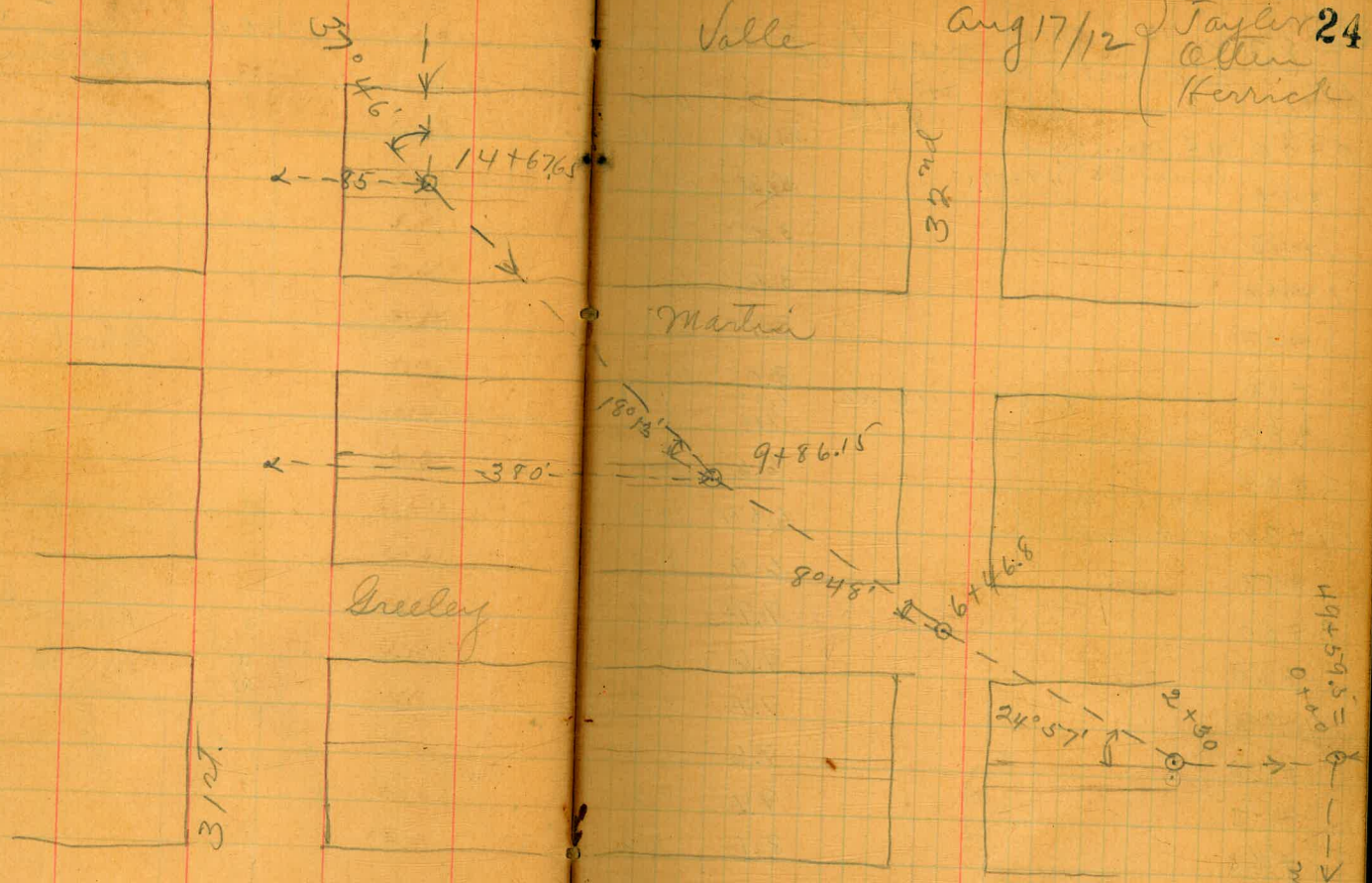
Pkel. Sewer up Canyon



Aug 15 + 16 / 1/2 { Childs Taylor Otten



Aug 17/12 { Childs
Taylor
Otten
Herrick



Prel. Sewer up canyon from
+ 8.3 North Belt line to center alley
200' west of center of 31st.

Sta.					
	S.P.	4.63	H.I. 9.12		4.49
0+00	M.H. main line			8.50	0.62
	Center 33rd 49+59.5				
+50				5.3	3.8
+63				3.0	6.1
1+00				3.6	5.5
+27				3.9	5.2
+50				3.0	6.1
	S.P.	9.08	16.62	1.58	7.54
+83				7.4	9.2
2+00				6.6	10.0
	24°57' R				
+30	M.H. Pueblo line			6.54	10.08
+50				6.9	9.7
3+00				9.9	6.7
+50				7.6	9.0
4+00				7.4	9.2
+50				7.6	9.0
+55				9.4	7.2
+60				8.1	8.5
5+00				7.0	9.6
+50				5.7	10.9
6+00				3.4	13.2
+30				2.7	13.9
	S.P.	7.57	23.86	0.33	16.29
+39				5.8	18.1
	8° 48'				
+468	M.H. Center of 32nd			5.68	18.18
	& Greeley.				

B-105

center of 33rd at Aug. 19/12 { Childs Taylor Otten Herrick
bet. Webster & Clay &

Cont. from page 25

Aug. 19/12 { Childs, Taylor, Otten, Herrick

Sta		H.I. 23.86		
6+50			5.6	18.3
+66			9.1	14.8
7+00			10.5	13.4
+50			9.9	14.0
8+00			8.8	15.1
+16			9.5	14.4
+22			11.6	12.3
+50			10.2	13.7
9+00			10.3	13.6
+09			7.9	16.0
+50			6.8	17.1
+86.15	18° 13' R centerally bet. Greeley & Martin		6.27	17.6
10+00			5.8	18.1
+50			5.3	18.6
+80			6.9	17.0
+85			9.4	14.5
+90			7.6	16.3
11+00			6.4	17.5
+20			7.3	16.6
+28			5.9	18.0
+50			6.4	17.5
+59			8.4	15.5
+62			6.2	17.7

Aug. 19/12 { Shields Taylor Otten Herrick

Cont. from page 26

Sta.	H.I. 23.86		
11+90		6.2	17.7
12+00		4.4	19.5
+50		3.3	20.6
13+00		2.0	21.9
+30		3.7	20.2
+50		2.5	21.4
14+00		0.9	23.0
+50		0.7	23.2
I.S. 37°46' R L2.04	35.60	0.30	23.56
+67.65 M.H. Center alley bet. Martin & Valle		11.61	24.0
15+00		10.9	24.7
+50		10.5	25.1
+67		12.5	23.1
+83		10.2	24.4
16+00		9.6	26.0
+50		8.6	27.0
17+00		8.2	27.4
+50		6.4	29.2
18+00		6.2	29.4
8°13' L		6.07	29.5
+47.5 M.H. Center alley bet. Valle. & Woolman		6.1	29.5
+50		7.0	28.6
+67		5.2	30.4
+83			

cont. from page 27

aug. 20/12 { Childs Taylor Otten

28

Sta.		H.I. 35.60		
19+00			4.0	31.6
+50			0.6	35.0
20+00			1.8	33.8
J.P. +27	12.39	47.00	0.99	34.61
+42			10.0	37.0
+50			1.1	45.9
+55			1.3	45.7
+71			1.2	45.8
21+00			11.4	35.6
+50			11.0	36.0
22+00			10.0	37.0
	44°04' L		5.3	41.7
+31.88	Mk. Center alley bet. Woolman & Franklin		2.20	44.8
+38			5.2	41.8
J.P. +50	10.78	55.58	2.20	44.80
+61			10.5	45.1
+80			4.6	51.0
+93			4.4	51.2
23+00			10.6	45.0
+50			11.7	43.9
24+00			15.2	40.4
+50			14.8	40.8
+58	Subject not less than 5 ft deep.		13.2	42.4
+78			12.1	43.5
			6.6	49.0

48 34

Cont. from page 28

Sta			H.I.		
25+00			55.58		
+05	48° 34' R M.H. in Franklin about 2' So. of South curb.			6.2	49.4
+50				6.17	49.4
+85				4.1	51.5
J.P. +92		6.55	59.42	3.1	52.5
				2.71	52.87
26+00				10.9	48.5
+50				11.9	47.5
27+00				12.0	47.4
+18.63	3° 43' R M.H. center alley bet. Franklin + Clay about 7' deep.			8.6	50.8
+50				7.24	52.2
J.P. 28+00		11.07	69.84	7.0	52.4
				0.65	58.77
+29				10.5	59.3
+50				5.9	63.9
29+00				5.4	64.4
+50				6.5	63.3
30+00				5.3	64.5
+50				4.5	65.3
+99	M.H. Center alley bet. Clay + Webster			3.0	66.8
				0.43	69.4

B-25

✓

Aug 20/12 { Childs, Taylor, Otten (28½)

Prel. sewer on Florence from center
34th to 35th

Aug. 21/12 — Childs, Taylor, Otten, Herrick

29

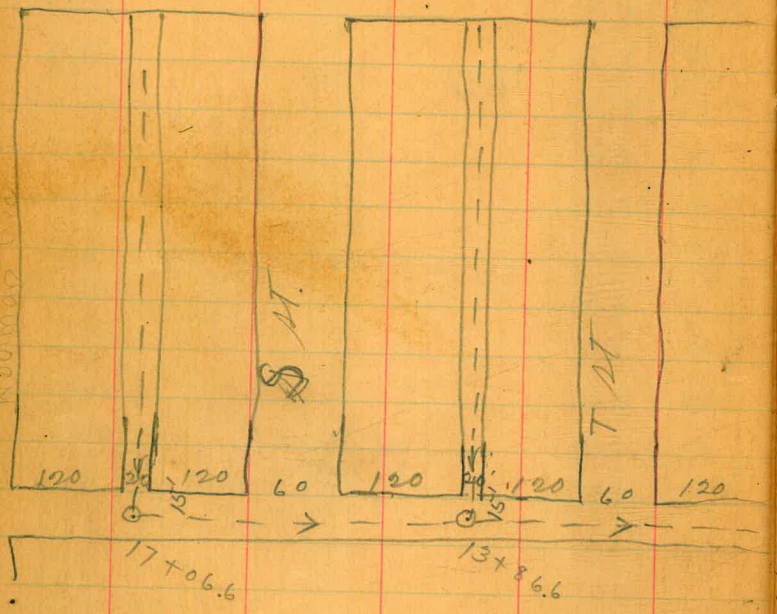
Sta.					
T.P.		11.43	H.F. 15.92		4.49
0+00	M.H. center of Florence & 34th	12.86		4.14	11.78
T.P.			28.66	0.12	15.80
+50				12.4	16.3
1+00				8.4	20.3
+50				3.9	24.8
T.P.		12.96	40.97 / 41.00	0.65	28.01
2+00				12.3	28.7
+50				8.1	32.9
3+00				4.2	36.8
+50				1.6	39.4
T.P.		10.97	51.31	0.63	40.34
4+00				9.6	41.7
+50				7.3	44.0
5+00				4.9	46.4
+50				2.6	48.7
+75	F.S. about 28' from 35th			1.50	49.8

Sheet B.25

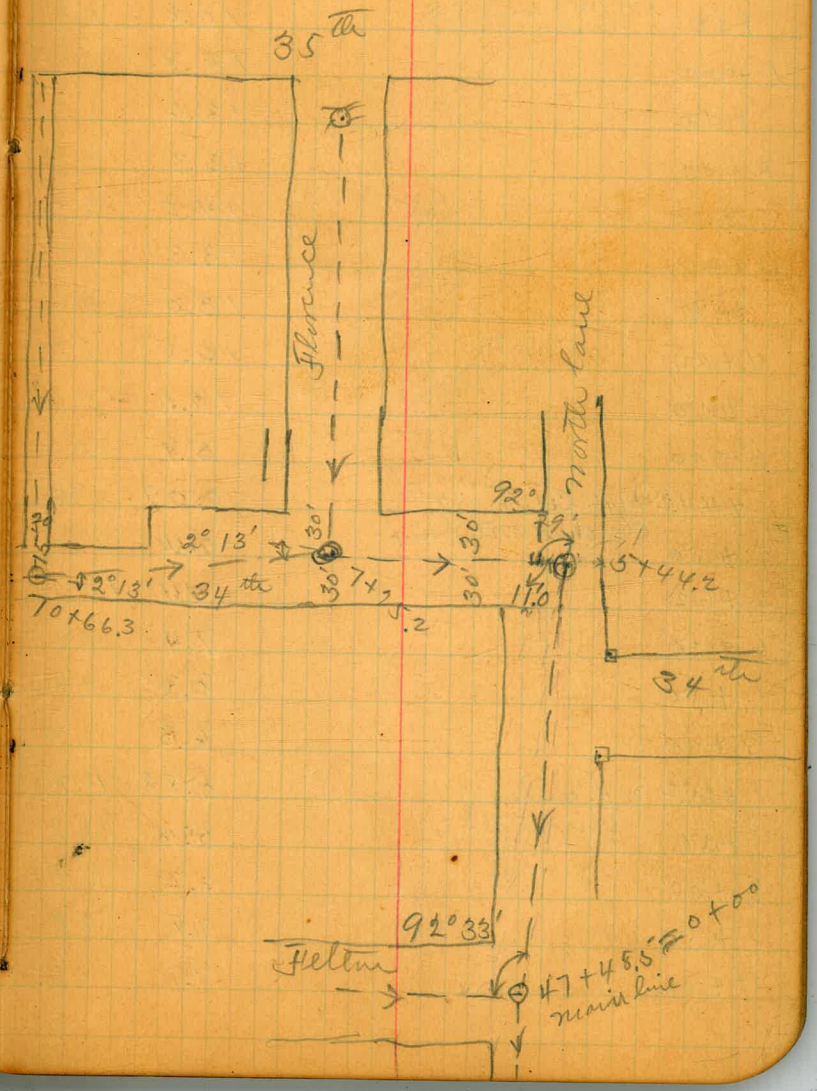
✓

Aug 22/12 of Childs Taylor

Prel. Sewer from center line to center 34th + Workman + S st.



g. Felton +12' north of pueblo north to center alley bet.



Cont. from page 30.

Aug 22/12 { Childs, Taylor, Otten, Herrick

Sta.		H.I.		
J.P.	13.17	17.66		4.49
0+00	= Sta. 47+48.5 on main line down Felton		10.95	6.71
+50			10.8	6.9
1+00			12.7	5.0
+50			12.6	5.1
2+00			13.3	4.4
+50			14.0	3.7
3+00			13.3	4.4
+50			13.0	4.7
4+00			12.5	5.2
+50			10.0	7.7
5+00			5.7	12.0
+44.2	M.H. Center 34th and North Lane		0.09	17.57
+50			0.4	17.3
+62			-0.4	18.0
6+00			7.4	10.3
+50			8.3	9.4
7+00			6.3	11.4
+25.2	M.H. center of Florence		5.88	11.78
+50			5.6	12.1
8+00			6.2	11.5
+50			7.8	9.9
9+00			7.7	10.0

Sheet B 76

Aug. 23 1/2 { Childs Taylor Otten

cont. from page 31

Sta.		H.I. 1766		
9+50			7.8	9.9
10+00			7.1	10.6
+50			6.9	10.8
+66.3	M.H. Center alley	2.06	7.10	10.56
11+00	South of T St.	17.62	6.8	10.8
+50	main line Superba Rts.		6.9	10.7
12+00			6.8	10.8
+50			6.8	10.8
13+00			6.6	11.0
+50			6.1	11.5
+86.6	M.H. alley bet.		5.88	11.74
14+00	S and T Streets		5.6	12.0
+50			4.9	12.7
15+00			4.1	13.5
+50			3.5-	14.1
16+00			2.5-	15.1
+50			2.1	15.5
17+00			1.6	16.0
+06.6	M.H. Center alley bet. S & Woolman		1.45-	16.17

Sheet B 26

✓ 4.52 20.69

Alley line bet. Woolman & of east line of 34th to near 35th

Sta.			H.I.		
J.P.			26.74		
0+00	M.H. 15' west of			10.57	16.17
+50	east line of 34th = Sta 17+06.6 on			8.8	17.9
1+00	Page 32			6.5	20.2
+50				1.9	24.8
J.P. 2+00		12.62	38.52	0.84	25.90
				7.0	31.5
J.P. +50		13.31	51.64	0.19	38.33
				10.8	41.8
3+00				0.7	51.9
J.P. +40		12.92	64.45	0.11	51.53
				7.9	56.5
+50				6.9	57.5
4+00				3.7	60.7
+50				0.0	64.4
J.P. 5+00		9.60	72.85	1.20	63.25
				5.6	67.2
+50				3.2	69.6
+95	F.S. 19'.73 from west line 35th			1.18	71.67

Sheet B25

S. St. from 15' west

Aug 23/12 { Childs, Taylor, Otten

alley line bet. S and T from 15' west of east line of 34th to near 35th

Aug 24/12 Childs Taylor Otten

Sta.			H.I.		
0+00	M.H. Sta. 13+866 on page 32		24.68	12.94	11.74
+50				9.9	14.8
1+00				8.4	16.3
+50				6.3	18.4
2+00				2.9	21.8
J.P.		11.90	35.85	0.73	23.95
+50				9.0	26.8
3+00				1.2	34.6
J.P.		12.08	47.77	0.16	35.69
+50				2.8	45.0
J.P.		12.80	59.36	1.21	46.56
4+00				4.8	54.6
+16				2.7	56.7
+50				0.7	58.7
		7.53	65.33	1.56	57.80
5+00				4.7	60.6
J.P.					
+50				2.2	63.1
+95	F.J. 20.25 from ~~west~~ east line of 35th			2.12	63.2

Sheet B. 26

Main line to Superba Hts. from center alley so. Aug. 26/12 { Childs Taylor Otten

of T St. + 15' west of east line of 34th up center alley to Sta 9+00

35

Sta.		H.I.		
J.P. 0+00	M.H. center alley so of T + 15' west of east line 34th	19.73	9.17	10.56
+50			8.7	11.00
1+00			7.7	12.0
+50			6.9	12.8
2+00			6.2	13.5
+50			5.0	14.7
3+00			5.0	14.7
+50			4.8	14.9
4+00			3.2	16.5
+50			3.0	16.7
5+00			2.3	17.4
+50			1.8	17.9
6+00			1.0	18.7
J.P. +46	M.H. center 35th 11.18	30.07	0.84	18.89
			10.17	19.9
+50			10.1	20.0
7+00			8.1	22.0
+50			5.0	25.1
8+00			5.0	25.1
+50			5.2	24.9
9+00	M.H. 46°50' L		6.12	23.9
+50			5.9	24.2
10+00			5.4	24.7

Profile Sheet B 27

Cont. from page 35

Aug. 27/12 { Childs, Taylor, Otten

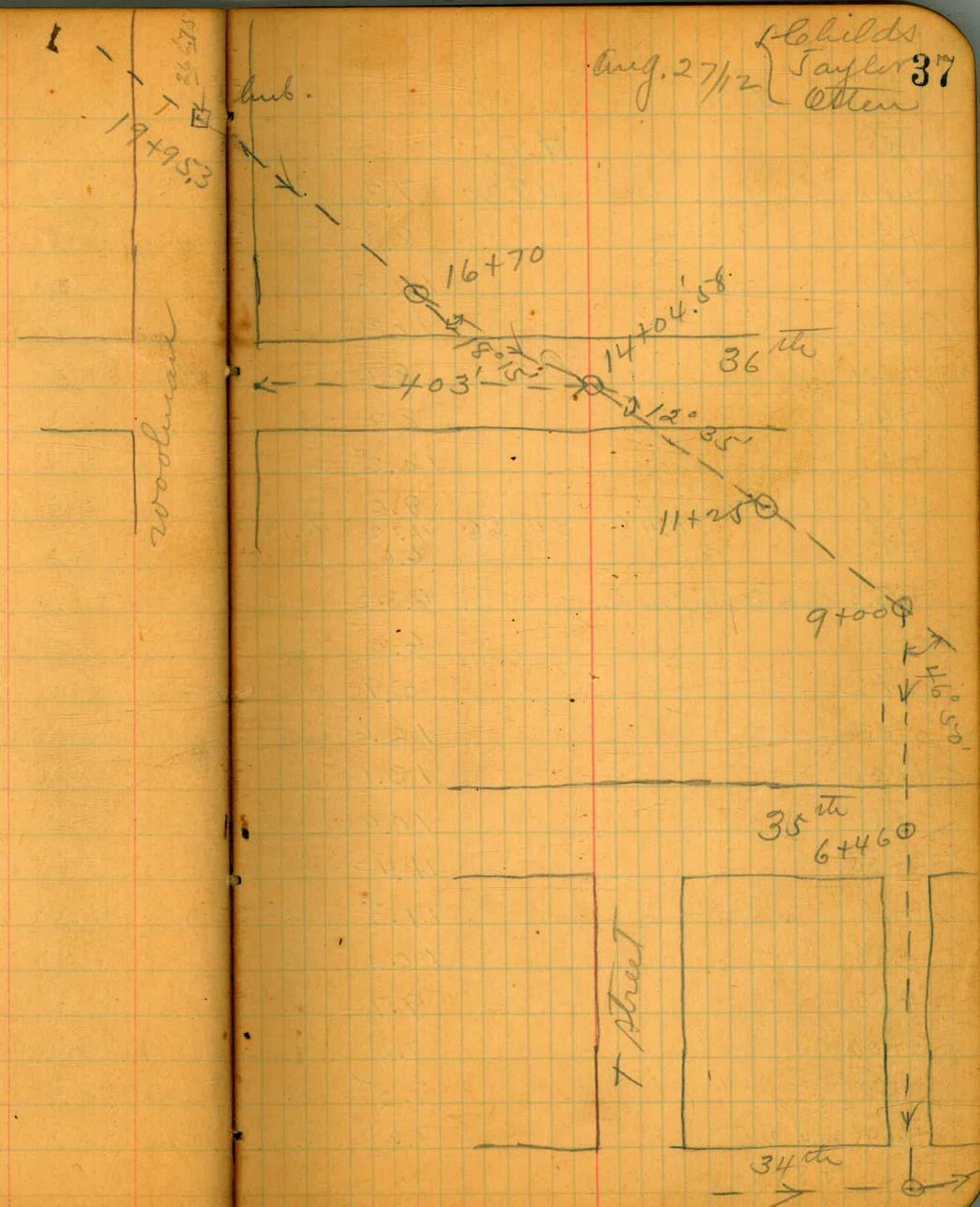
Sta			H.I.		
T.P. 10+50		9.11	37.08	2.10	27.97
				9.5	27.6
11+00				9.7	27.4
+25	M.H. side canyon			9.12	28.0
+50				9.0	28.1
12+00				8.2	28.9
+50				7.3	29.8
13+00				6.4	30.7
+50				6.1	31.0
14+00				5.9	31.2
+04.58	12° 35' L M.H. center of 36th Street			5.68	31.40
T.P. +50		10.34	41.74	8.1	33.6
15+00				7.2	34.5
+34				7.0	34.7
+45				8.7	33.0
+50				9.3	32.4
+68				8.3	33.4
+79				6.8	34.9
16+00				6.1	35.6
+50				5.2	36.5
+70	18° 15' R M.H.			4.64	37.10
T.P. 17+00		11.20	48.30	9.0	39.3
+50				7.6	40.7

Aug. 27/12 { Childs, Taylor, Otten

85' So.

1995.3
1670.0
325.3

1670.0
1404.6
265.4

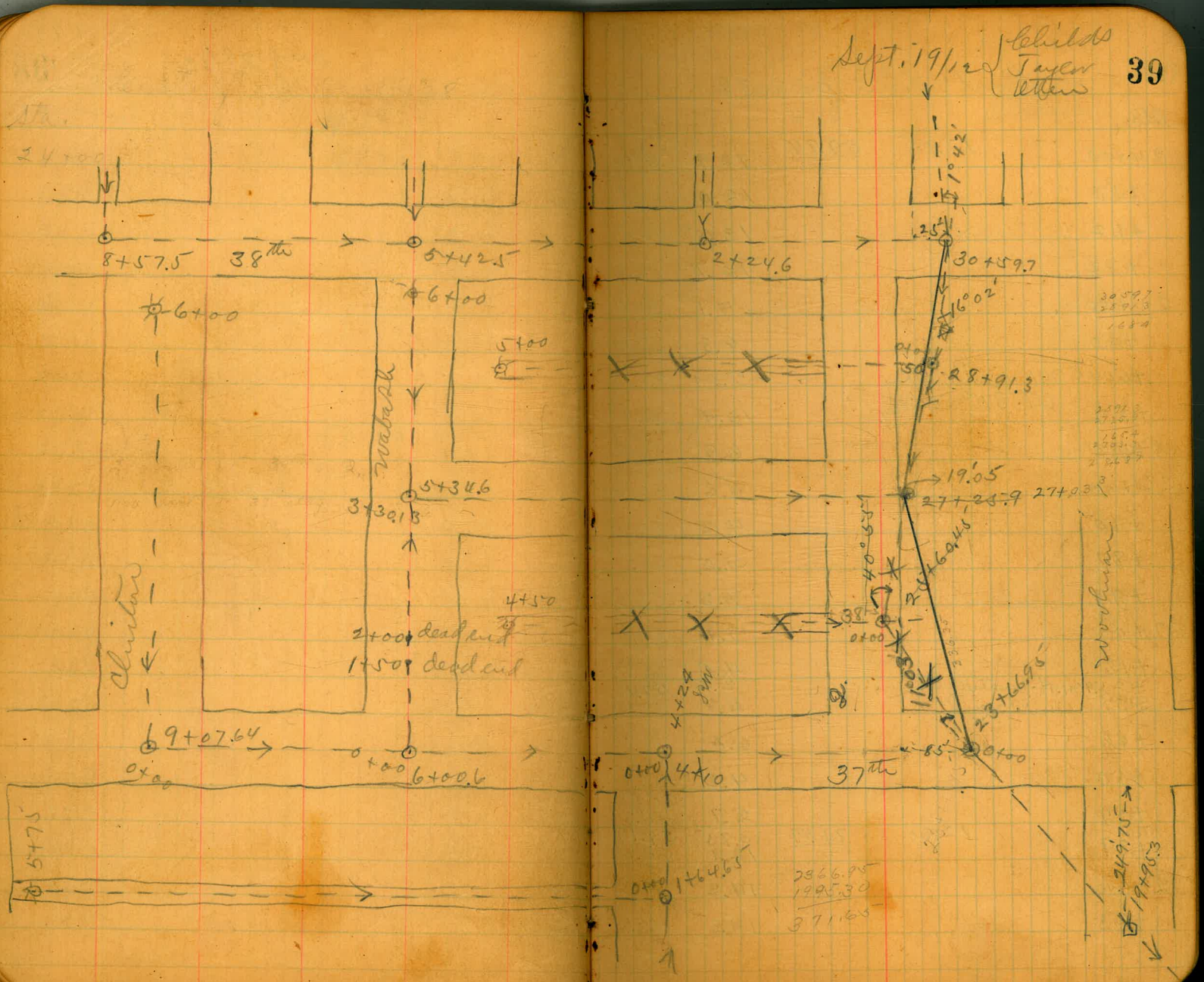


Cont. from page 36

Sta		H.I.		
18+00		48.30	7.3	41.0
+50			8.5	39.8
+66			12.0	36.3
19+00			10.5	37.8
+24			8.6	39.7
+45			8.7	39.6
+50			10.2	38.1
+70			9.6	38.7
S.P.	10.48	54.66	4.12	44.18
+93			6.6	48.1
+95.3	hub center wodman		6.32	48.3
20+00			6.0	48.7
+12			5.9	48.8
+50			12.6	42.0
21+00			13.1	41.6
+50			10.4	44.3
22+00			11.4	43.3
+18			11.3	43.4
+38			10.1	44.6
+50			9.7	45.0
23+00			7.3	47.4
+50			7.5	47.2
+66.95	M.H. center of 37th + 85' so. of So. line of		7.67	46.99

Aug. 28/12 { Childs, Taylor, Etten, Bunker

Sept. 19/12 { Childs Tayer letters

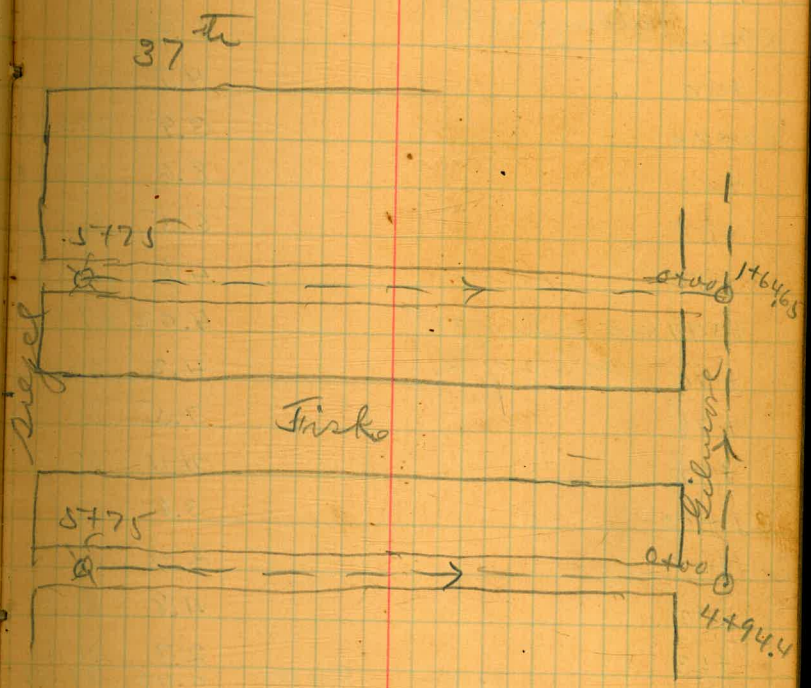


Cont. from page 38

Sta.				
24+00	12.95	59.94		
+50			10.9	49.0
+62			12.0	47.9
+72			13.5	46.4
25+00			10.7	49.2
+50			7.1	52.8
+60.45 M.H. center alley bet. 37th & Milbray			6.3	53.6
+87			5.81	54.13
+92			10.4	49.5
26+00			6.9	53.0
+50			6.6	53.3
+87			4.2	55.7
+97			5.0	54.9
27+00			7.2	52.7
+13			7.1	52.8
+35.9 M.H. center of Milbray			4.0	55.9
+37			2.48	57.46
+46			2.7	57.2
+50			6.0	53.9
+54			4.2	55.7
T.P. +89	12.30	71.49	2.7	57.2
28+00			0.75	59.19
+23			12.1	59.4
			14.2	57.3
			14.3	57.2

Sept. 20/12 { Childs Taylor Otten

40



Sept. 20/12 { Childs Taylor Olsen

Cont. from page 40

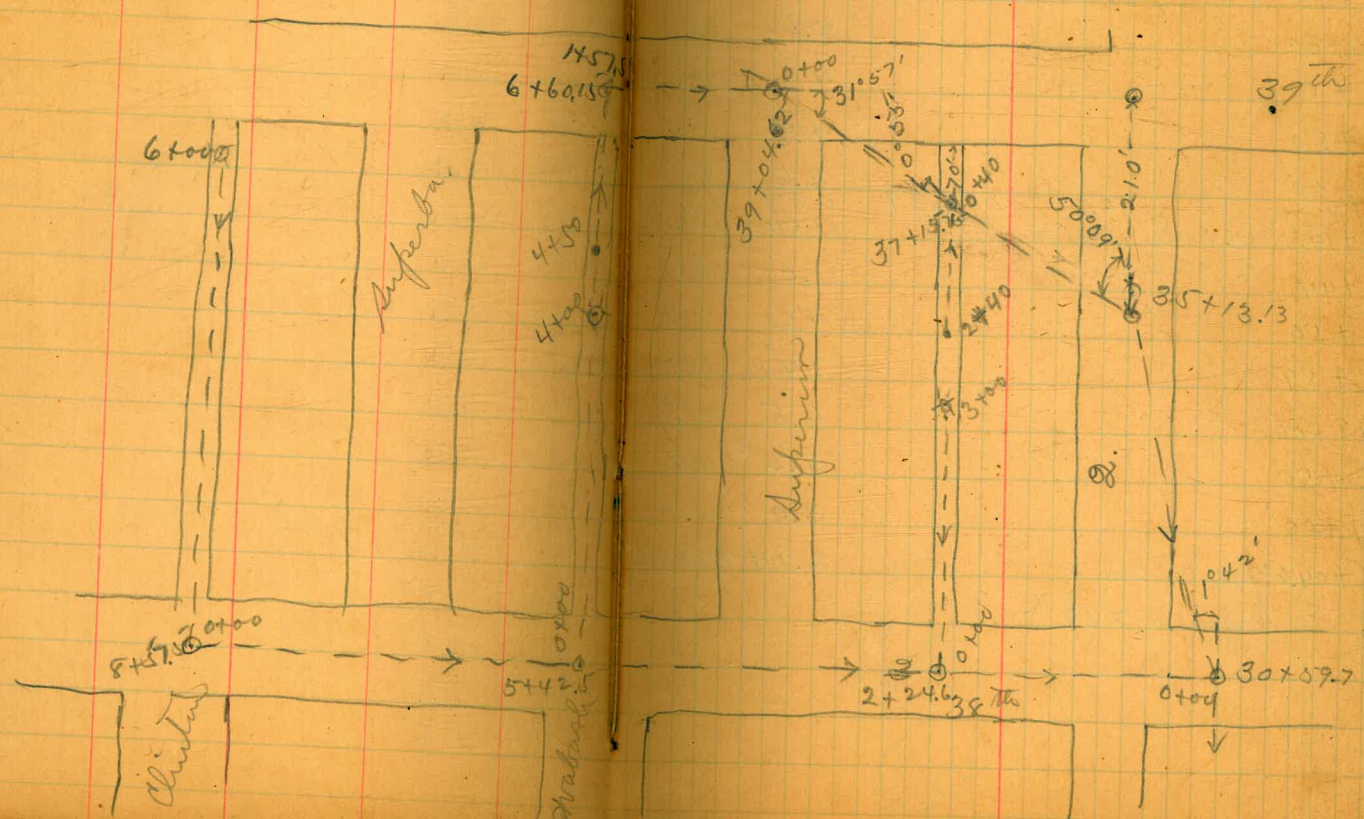
Sta.		H.I.		
		71.49		
28+34			12.2	59.3
+50			10.6	60.9
+91.3	M.H. Center alley bet. Milbray & 38th		7.07	64.42
29+00			6.4	65.1
+50			4.7	66.8
30+00			3.9	67.6
+20			8.6	62.9
+30			6.5	65.0
+50			4.8	66.7
+59.7	M.H. center of 38th		4.02	67.47
+70	+25'/20. of 22.		4.2	67.3
+78			7.5	64.0
+90			4.4	67.1
31+00			3.6	67.9
+45			2.0	69.5
+50			4.8	66.7
+63			2.7	68.8
J.P. 32+00	12.90	83.91	0.4.8	71.01
			11.9	72.0
+50			9.1	74.8
33+00			7.9	76.0
+16			9.3	74.6
+50			8.5	75.4

Sept. 20/12 { Childs, Taylor, Osten

42

35 13.1
30 59.7
453.4

15.75
28 37
44 12



Cont. from page 41

Sta.		H.I.		
33+54		83.91	6.2	77.7
34+00			2.5	81.4
J.P.	12.12	94.08	1.95	81.96
+50			11.1	83.0
35+00			8.9	85.2
+13.13	M.H. Center Q.		8.27	85.8
+50	+ 210' west center of 39th		9.8	84.3
36+00			5.8	88.3
+50			4.9	89.2
+80			4.9	89.2
37+00			2.6	91.5
J.P.	12.81	106.39	0.50	93.58
+15.75	M.H. center alley bet. Q. + Superior		11.54	94.85
+44			11.0	95.4
+50			9.2	97.2
+59			7.7	98.7
38+00			6.5	99.9
+50			5.2	101.2
39+00			3.0	103.4
+04.62	M.H. center of Superior + 39th		2.74	103.65

✓

Sheet B 27

Sept. 21/12 { Childs Taylor Otten

Sewer in alley bet. 37th & Milbrae Street from bottom of canyon at Q. to Wabash Sept. 21/12 { Childs Taylor Otten

Sta.		H.I.	Rod	Elev.
0+00	M.H. 38' So. of North line of Q.	66.10	11.97	54.13
+50			8.1	58.0
1+00			5.8	60.3
+50	about 5' deep.		2.8	63.3
T.P.	12.88	77.72	1.26	64.84
2+00			11.4	66.3
+50	about 9' deep.		8.0	69.7
3+00			2.9	74.8
T.P.	11.63	87.92	1.43	76.29
+50	about 12' deep.		5.9	82.0
4+00	about 8' deep.		3.3	84.6
~~+50~~	F.T. about 28.35 from prop. line		1.74	86.2

Sect B 27

Donat Need

alley line bet. Milbrae & 38th
from 50' south of 2. to wabash

Sept. 23/2 { Shields Taylor attens

Sta.		H.I.	Rod	Elev.
0+00		77.38	12.96	64.42
+50			9.8	67.6
1+00			6.8	70.6
+50			4.7	72.7
2+00	abut 8' deep.		3.5	73.9
T.S.	12.78	89.68	0.48	76.90
+50			12.1	77.6
3+00	abut 12' deep.		6.2	83.5.
+50			1.7	88.0
4+00	abut 12' deep.		1.1	88.6
T.S.	1.92	90.57	1.03	88.65
+50			0.6	90.0
5+00	abut 14' deep. F.S. 40.6 South of property line		3.34	87.2

Sheet B 27

Milbrae Street from 19' so. Wabash

Sta.			H.I	Rod	Elev.
		12.03	66.16		54.13
0+00	M.H. center of Milbrae + 19' so. of Q.			8.70	57.46
+50				6.1	60.1
1+00				4.0	62.2
+50				3.0	63.2
2+00				1.3	64.9
T.P.		10.27	76.37	0.06	66.10
+50				9.7	66.7
3+00				7.9	68.5
+50				4.6	71.8
4+00				1.0	75.4
T.P.		9.80	85.70	0.47	75.90
+50				6.3	79.4
5+00				2.6	83.1
+34.6	M.H. center of Milbrae + Wabash about 8' deep.			1.30	84.4

✓

B28

Q. to center of Sept. 23/12 Childs Taylor Allen

37th street from bottom of Canyon 85' SO. of Q. to center of Clinton line street

Sept. 23/12 { Childs, Taylor, Otten

47

Sta.			H.I.	Rod	Elev.
0+00	M.H. 85' so. of Q.		59.40	12.41	46.99
+07				13.0	46.4
+13				14.6	44.8
+20				12.6	46.8
+50				9.6	49.8
1+00				6.5	52.9
+50				3.8	55.6
2+00				2.7	56.7
+50				0.4	59.0
T.P. 3+00		12.77	71.94	0.23	59.17
+50				9.3	62.6
4+00				5.6	66.3
+10	M.H. at Gilmore			2.4	69.5
T.P. +50	25' so. of blk. line of Crystal Springs	12.94	83.17	1.71	70.23
5+00				9.6	73.6
+50				8.3	74.9
6+00.6	M.H. center of Wabash			6.0	77.2
+50				3.03	80.14 ~~68.91~~
T.P. 7+00		12.96	94.96	0.5	87.7
+50				1.17	82.00
8+00				9.9	85.0
+50				7.5	87.4
9+00				5.2	89.7
+07.64	M.H. center of Clinton			3.1	91.8
				0.8	94.1
				0.36	94.60

Sheet B 28 (?)

Wabash Street from Center 37th to near 38th

Sept. 24/12 { Childs, Taylor, Otten

48

Sta.		H.I.	Rod	Elev.
0+00	M.H. Center 37th & Wabash	91.46	11.32	~~80.14~~
+50			9.6	81.8
1+00			6.9	84.6
+50	dead end. west		3.1	88.4
2+00	dead end east		2.0	89.5
+50			4.0	87.5
3+00			5.8	85.7
+30.13	about 8' deep. M.H. Center of Milbrae		7.06	84.4
+50			7.9	83.6
4+00			11.3	80.2
+50	about 3' deep.		11.3	80.2
5+00			8.9	82.6
+50	about 8' deep.		5.0	86.5
6+00	F.S. near 38th		-0.3	91.8

(?) See about F.M.

Sheet B. 78

✓

38th street from 25' so. of alley bet. Superba & Siegel

Sta.		H.I.	Rod.	Elev.
0+00	M.H. 25' so. of Q. St.	79.45	11.98	67.47
+08			13.6	66.8
+14			15.7	63.7
+22			12.8	66.6
+50			7.2	72.2
1+00			1.2	78.2
J.P.	12.78	92.00	0.23	79.22
+50			9.2	82.8
2+00			4.6	87.4
+24.6	M.H. center alley		2.44	89.56
J.P.	12.86	102.42		
+50	bet. Q. & Superior		10.1	92.3
3+00			5.2	97.2
+50			1.6	100.8
J.P.	3.17	105.02	0.57	101.85
4+00			2.1	102.9
+50			1.4	103.6
5+00			4.8	100.2
+42.5	M.H. center alley		6.68	98.34
+50	bet. Superior & Superba.		6.7	98.3
6+00			7.8	97.2
+50	about 2.5 deep		9.5	95.5
7+00		✓	8.0	97.0
+50	0.4 %		6.5	98.5
8+00			5.0	100.0
+50			4.2	100.8
+57.5	M.H. center alley bet. Siegel & Superba.	about 7.0 deep	4.22	100.80

Q. to center Sept. 24/12 {Childs, Taylor, Olten

Sheet D. 28

Clinton street from center of 37th to about 29.8 west 38th. Sept. 25/12 { Childs Taylor Otten

50

Sta.		H.I.	Rod	Elev.
0+00	M.H. center of 37th & Clinton	106.64	12.04	94.60
+50			9.2	97.4
1+00			8.3	98.3
+50			7.6	99.0
2+00			6.2	100.4
+50			5.0	101.6
3+00			3.8	102.8
+50	not less than 9' deep.		4.9	101.7
4+00			5.6	101.0
+50			5.6	101.0
5+00			6.3	100.3
+50	about 8.5' deep.		6.4	100.2
6+00	F.S. about 29.8 from 38th,	about 6' deep.	8.78	97.86

✓

Sheet B-78

alley bet. 37th + Fiske from 25' so. of blk. Sept. 25/12 { Childs Taylor Allen

line of crystal springs to Siegel

Sta.		H.I.	Rod	Elev.
0+00	M.H. 25' so. blk.	91.26	10.95	80.31
+50	line of crystal springs + alley bet. 37th +		11.9	79.4
1+00			8.7	82.6
+50			6.0	85.3
2+00			3.4	87.9
+50			1.6	89.7
J.P.	10.77	101.41	0.62	90.64
3+00			13.5	87.9
+50			14.3	87.1
4+00			13.0	88.4
+50			10.7	90.7
5+00			6.4	95.0
+50			2.9	98.5
+75	F.J. 25.25 so. of Siegel		2.87	98.54

Sheet B 28

Alley bet. 36th & Fiske

line of crystal springs to from 25' so.

Sta.		H.I.	Rod	Elev.
0+00	M.H. 25' so. of blk. line of crystal springs	95.69	11.84	83.85
+50			8.7	87.0
1+00			6.2	89.5
+50			6.1	89.6
2+00			4.1	91.6
+50			3.1	92.6
3+00			2.9	92.8
+50			1.4	94.3
T.P. 4+00	6.97	101.43	1.23	94.46
+50			6.9	94.5
5+00			6.0	95.4
+50			5.1	96.3
+75	F.S. 25' so. Siegel		3.9	97.5
			2.83	98.60

Sheet 329

25' so. of blk of Siegel

Sept. 25/12 { Childs Taylor Otten

52

18
25
43

575
43
532

Sewer line 25' south of Blk. Springs from center of 37th to line of crystal alley East of 36th Sept. 25 1/2 Fields Taylor & Allen

Sta.		H.I.	Rod	Elev.
0+00	M.H. 4+10 N	82.06	11.83	70.23
+17	37th St. line		11.4	70.7
+18			10.3	71.8
+50			8.4	73.7
1+00			7.4	74.7
+50			4.0	78.1
+64.6	M.H. center alley abant 5' deep.		1.75	80.31
J.P. 2+00	12.75	93.06	7.9	85.2
+50			1.6	91.5
J.P. 3+00	4.27	95.69	1.64	91.42
			2.0	93.7
+50			2.0	93.7
4+00			4.5	91.2
+50			12.2	83.5
+75			13.1	82.6
+94.4	M.H. center alley abant 3' deep. East of 36th		11.84	83.85

Shed B 39

39th Street from center of Superior & Superba. Sept. 26/12 { Childs, Taylor, Otten

to center alley bet. Superior

Sta.		H.I.	Rod	Elev.
0+00	M.H. center of Superior & 39th	109.62	5.97	103.65
+50			7.3	102.3
1+00			4.6	105.0
+50	M.H.		2.0	107.6
+57.5	M.H. center alley bet. Superior & Superba		1.64	107.98

Sheet B-29

alley bet. 2 & Superior St. from.

30' west 39th to Center 38th

Sept. 26/12 { Child / Taylor / Atten

Sta.			H.I.	Rod	Elev.
0+00	dead end 30' west of 39th	10.13	109.62 / 104.98 / 105.0	2.3	107.3 / 94.85
+40	M.H. bottom of Canyon 37+15.75			10.12	94.9
+50				14.1	90.9
+63				10.8	94.2
1+00				4.8	100.2
J.P.		5.25	110.11	0.12	104.86
+17				4.1	106.0
+50				2.1	108.0
2+00				2.5	107.6
+40	dead end.			1.6	108.5
0+00	M.H. Center 38th	0.59	99.94	10.76 / 10.38	99.35 / 89.5
+20				11.0	88.9
+21				9.4	90.5
+50				4.7	95.2
J.P. 1+00			110.11	7.1	103.0
+43				6.8	103.3
+50				8.5	101.6
2+00				15.0	95.1
+50				12.8	97.3
3+00	F.S. lmb.			5.50	104.6

Sheet B.29

√

Alley line bet. Superior & from center 38th to center

Sta.		H.I.	Rod	Elev.
J.P. 0+00	M.H. center of 38th	111.27	12.93	98.34
+19			11.8	99.5
+20			10.5	100.8
+50			6.4	104.9
J.P. 1+00	10.27 about 8' deep.	121.48	0.06	111.21
			10.0	111.5
+50			5.4	116.1
2+00			3.8	117.7
+50			2.8	118.7
3+00	about 5' deep.		3.9	117.6
+50			3.6	117.9
4+00	F.J. west		2.44	119.0
+50	dead end east		4.1	117.4
5+00			5.8	115.7
+50			7.7	113.8
6+00			15.0	106.5
+50			13.7	107.8
+60.15	M.H. center of 39th		13.50	107.98

Sheet B 29

Superba 39th

Sept 26/12 { Child Taylor Otten

Alley line bet. Superba & Siegel from center of 38th to about 30' west of 39th

Sept. 26/12 Childs, Taylor, Otten

57

Sta.		H.I.	Rod	Elev.
0+00	M.H. center of 38th	113.97 / 114.0	13.17	100.80
+15			13.3	99.7
+17			11.6	102.4
+50	about 9' deep		6.3	107.7
T.P.	6.31	119.65	0.63	113.34
1+00	about 17' deep.		3.9	115.7
+50			4.5	115.1
2+00	about 12' deep		4.9	114.7
+50			4.2	115.4
3+00	about 9' deep		2.0	117.6
+50			1.7	117.9
4+00			2.2	117.4
+50			1.4	118.2
5+00			2.0	117.6
+50			2.6	117.0
6+00	F.T. 30.1 west of 39th about 5' deep		0.93	118.72

Sheet B-29 ✓

Alley line bet. 39th & Ada ave. from 30' so. of Siegel to sta. 5+25

Sept. 27/12 { Childs, Taylor, Otten

Sta.		H.I.	Rod	Elev.
J.P.	532	124.43	0.61	119.11
0+00	F.J. 30 South of Siegel		2.95	121.5
+50		119.72	0.4	119.3
1+00			3.1	116.6
+50			2.4	117.3
2+00			2.0	117.7
+50			2.8	116.9
3+00			4.1	115.6
+50			7.6	112.1
4+00			8.9	110.8
+05.8	M.H. lot line 150'		8.78	111.0
+50	North of So. line of Panamahts.		6.7	113.0
5+00			7.6	112.1
+25	dead end.		8.0	114.7

Sheet B.29

alley bet. Ada ave. + 40th
Siegel to Sta. 5+25 a

Sta.		H.I.	Rod	Elev.
0+00	F.T. 30' so. of	120.15	0.04	120.1
+50	Siegel		0.8	119.3
1+00			2.4	117.7
+50			4.8	115.3
2+00			5.9	114.2
+50			7.6	112.5
3+00			7.8	112.3
+50			9.9	110.2
4+00			11.4	108.7
+03.65	M.H. lot line 150'		11.44	108.71
+50	north of so. line of		12.6	107.5
5+00	Panama hts.		11.6	108.5
+25	dead end.		11.0	109.1

Sheet B. 29

from 30' south of

Sept. 27/12 { Childs, Taylor, Otten

Cross line from Sta. 4+03.65 on alley bet. Ida ave + 40th to Sta. 1+57.5 on 39th street & alley bet. Superba & Superior

Sept. 27/12 | Childs, Taylor, Otten

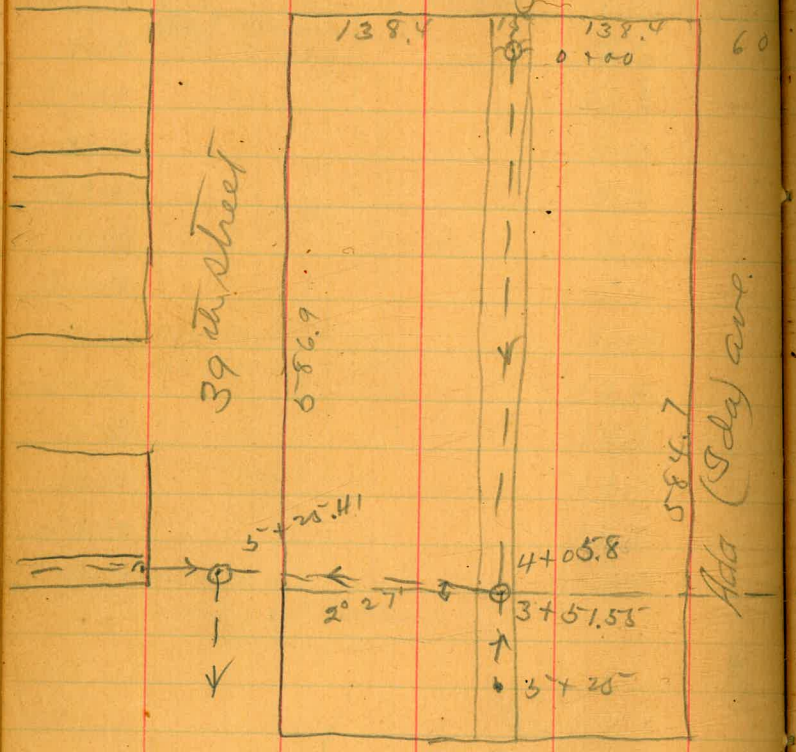
Sta.		H.I.	Rod	Elev.
0+00	about 5' ~~[illegible]~~ M.H. center alley bet Ida ave + 40th Sta. 4+03.65	119.72	11.01	108.71
+50			9.6	110.1
1+00			11.2	108.5
+50			9.6	110.1
2+00			8.2	111.5
+50	0.4% grade.		6.8	112.9
3+00			5.6	114.1
+51.55	M.H. center alley bet. Ida ave. + 39th		8.78	111.0
4+00			12.9	106.8
+43			14.8	104.9
+50			14.4	105.3
5+00			11.3	108.4
+25.41	M.H. center of 39th & alley bet. Superba + Superior		11.74	107.98

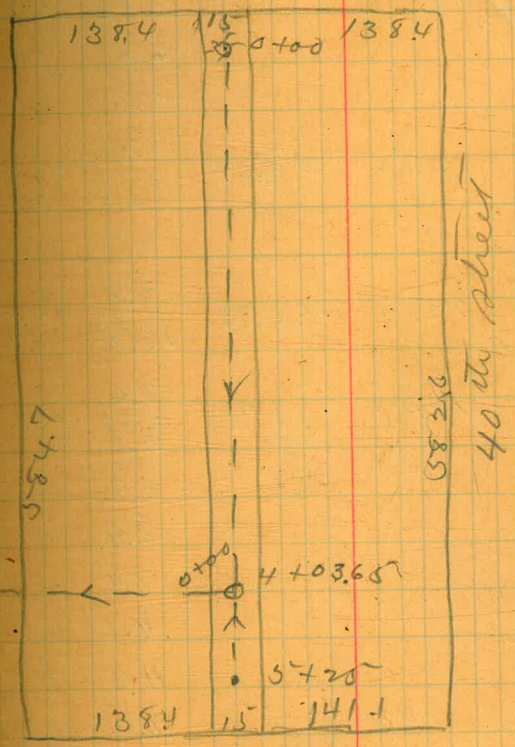
Sheet B 29

103.7

101.6

Siegel


138.4
138.4
0+00
60
39 th Street
S 86.9
S 84.7
Ada (Sday) ave.
5
25.41
4+05.8
2° 27'
3+51.55
3+25


138.4
138.4
0+00
S 84.7
S 83.6
40 th Street
0+00
4+03.65
5+25
141.1
138.4

alley line bet. 2. and Woolman
Center 38th to Sta 9+75 east

from
of 39th

Hebilds
Taylor
Otten

Sta.			H.I.	Rod	Elev.
T.P.		12.46	79.93		67.47
0+00	M.H. center of 38th			7.83	72.10
+21				6.4	73.5
+22				5.7	74.2
+50				1.9	78.0
T.P. 1+00		12.89	92.64	0.18	79.75
				12.5	80.1
+50				7.9	84.7
2+00				3.8	88.8
T.P. +50		12.02	104.33	0.33	92.31
				10.1	94.2
3+00				3.6	100.7
T.P. +50		10.28	113.98	0.63	103.70
			114.0	8.1	105.9
4+00				8.7	105.3
+50				8.9	105.1
5+00				7.4	106.6
+50				4.1	109.9
6+00				4.3	109.7
+50		0.4 % grade		7.0	107.0
+60.73	M.H. center of 39th			7.57	106.4
7+00				9.3	104.7
+50				8.5	105.5
8+00				6.4	107.6
+50				5.0	109.0
9+00				4.1	109.9
+50				5.0	109.0
+75	F.T. about 6' deep			6.12	107.86

Sheet B 30

102.9
1.1
101.8

Alley line bet. woolman of 38th to sta. 9+40 last of

Sta.			H.I.	Rod	Elev
J.P. 0+00	M.H. Center of 38th		103.91	13.08	90.83
+50				11.8	92.1
1+00				11.2	92.7
+50				12.2	91.7
2+00				10.3	93.6
+50				8.2	95.7
3+00				10.5	93.4
+32	1.0%			11.6	92.3
+50				10.0	93.9
4+00				2.1	101.8
J.P.		5.13	108.31	0.73	103.18
+50				3.2	105.1
5+00				2.6	105.7
+50				3.0	105.3
6+00				8.8	98.5
+50				9.0	98.3
+60.37	M.H. center of 39th			8.95	99.36
+88				9.7	98.6
+93				11.4	96.9
7+00				11.9	96.4
+25				13.1	95.2
+50				10.3	98.0
8+00				4.7	103.6

Sheet D. 30

+ S. from center 39th

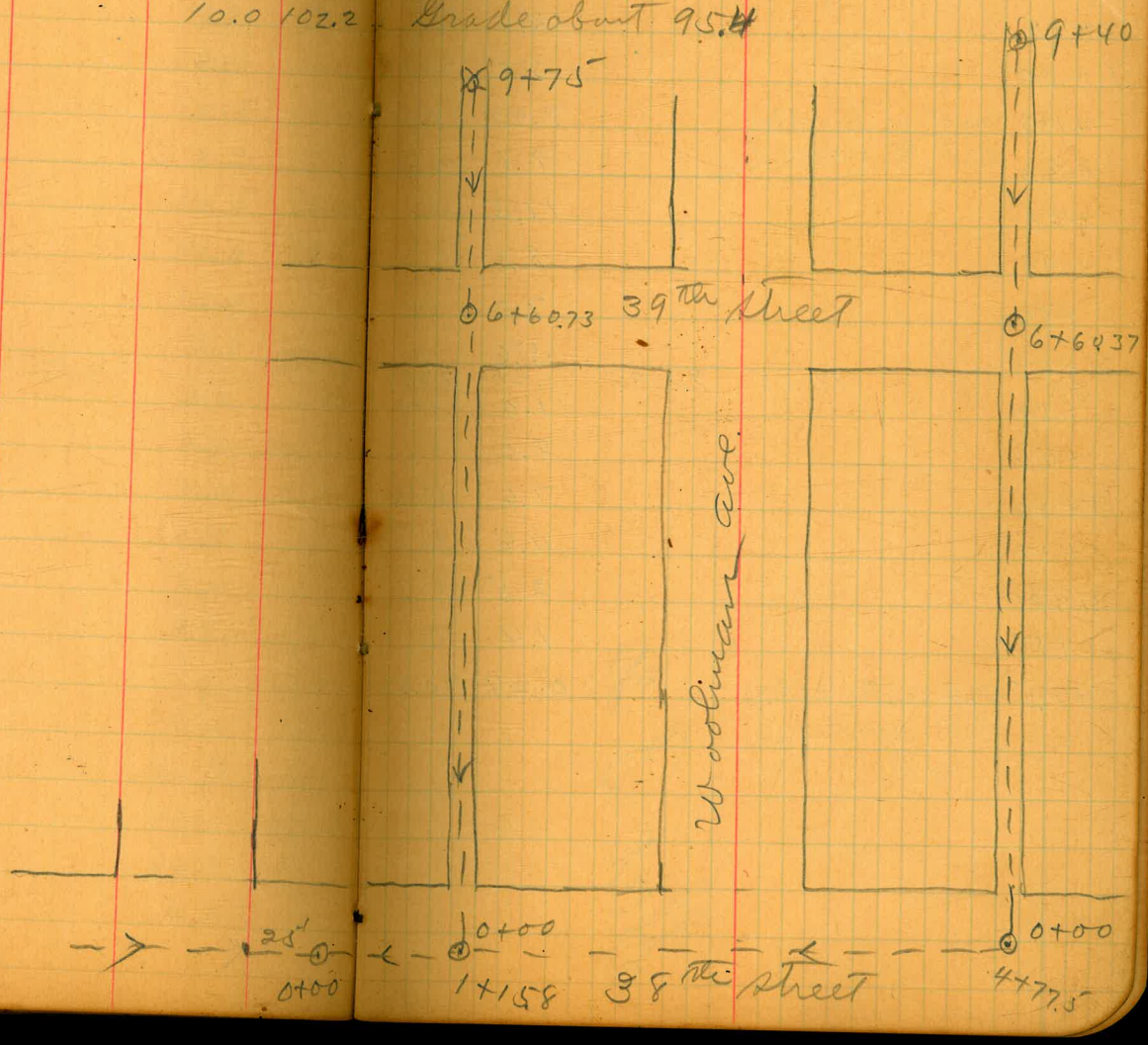
Oct. 1/12 { Childs Taylor Atten

Grade about 86.0

Oct. 1/12 { Schild Taylor Allen

Cont. from page 63

Sta.			H.I.	Rod	Elev.
T.P. 8+50		3.94	112.19	0.06	108.25
				3.7	108.5
9+00				5.9	106.3
+40	F.S.	✓		10.0	102.2



38th Street from M.H. 25' So. of Q. to
Center of alley bet. Woolman & S.

Oct. 1/12 { Child / Taylor / Otten

Sta.		H.I.	Rod	Elev.
0+00	M.H. center of 38th + 25' So. of Q.	79.59	12.12	67.47
+50			8.1	71.5
+88			4.6	75.0
1+00			5.2	74.4
+15.8	M.H. center alley bet. Q. & Woolman.		7.49	72.10
+30			9.1	70.5
+37			11.5	68.1
+41			8.5	71.1
+50			7.0	72.6
2+00			5.6	74.0
J.P. +50	12.68	91.07	1.20	78.39
+66			11.0	80.1
3+00			8.0	83.1
+50			7.6	83.5
4+00			4.6	86.5
+50			2.5	88.6
+77.5	M.H. center alley bet. Woolman & S.		1.4	89.7
			0.24	90.83

Sheet B. 30

alley line bet. Logan & National
from center of 33rd east to

Oct. 17/12 { Childs
Taylor
Otten

Sta.		H.I.	Rod	Elev
J.P.	0.99	9.45		8.46
0+00	M.H. center of 33rd		7.00	24
+50	+ alley bet. National + Logan.		7.0	24
1+00			6.6	2.8
+50			6.4	3.0
+90			6.8	2.6
2+00			7.8	1.6
+25			9.9	-0.5
+50			10.3	-0.9
+61			9.5	-0.0
+68			7.2	2.2
3+00			7.1	2.3
+42			8.2	1.2
+50			6.6	2.8
+62			5.8	3.6
4+00			6.0	3.4
+50			6.8	2.6
5+00			6.7	2.7
+50			7.0	2.4
6+00			6.9	2.5
+50			6.2	3.2
+55			6.5	2.9
+62			5.0	4.4
+72.62	M.H. center 15' east center of 34th		4.24	5.2

Sheet B-31

Sta

cont. from page 66

Sta.			H.I. 9.45	Rod	Elev.
7+00				2.8	6.6
		3.77	21.34		17.57
+50	about 7' deep			10.0	11.3
8+00				4.6	16.7
F.S.		12.25	32.39	1.20	20.14
+50				11.0	21.4
9+00	about 7' deep.			6.8	25.6
+50				2.6	29.8
S.S.		12.48	44.72	0.15	32.24
10+00				11.2	33.5
+50				8.3	36.4
11+00				5.6	39.1
+50				2.4	42.3
S.S.		9.30	52.71	1.31	43.41
12+00				7.3	45.4
+50				5.6	47.1
13+00				4.0	48.7
+50				2.4	50.3
+60	F.S. about 14's last 3 5ths.			2.25	50.5

✓

Alley line bet. National & center of 33rd to sta. 19+00

Sta		H.I. 9.45	Rod	Elev.
0+00	M.H. center of 33rd & alley bet. National & Grand.		8.08	1.3
+50			7.1	2.3
1+00			6.1	3.3
+50			6.2	3.2
2+00			6.7	2.7
+50			7.1	2.3
3+00			7.7	1.7
+50			7.8	1.6
4+00			8.3	1.1
+50			8.6	0.8
5+00			8.3	1.1
+50			8.7	0.7
6+00			8.4	1.0
+28			8.2	1.2
+30			9.4	0.0
+50			10.0	-0.5
+60			7.0	2.4
+73.2	M.H. 15' east of east line? center of 34th		6.68	2.7
+81			9.2	0.2
+95			8.8	0.6
7+00			7.7	1.7
+06			6.2	3.2

Sheet B 31

Grand from east of 35th Oct. 18/12 { Childs Taylor Other

Cont. from page 68

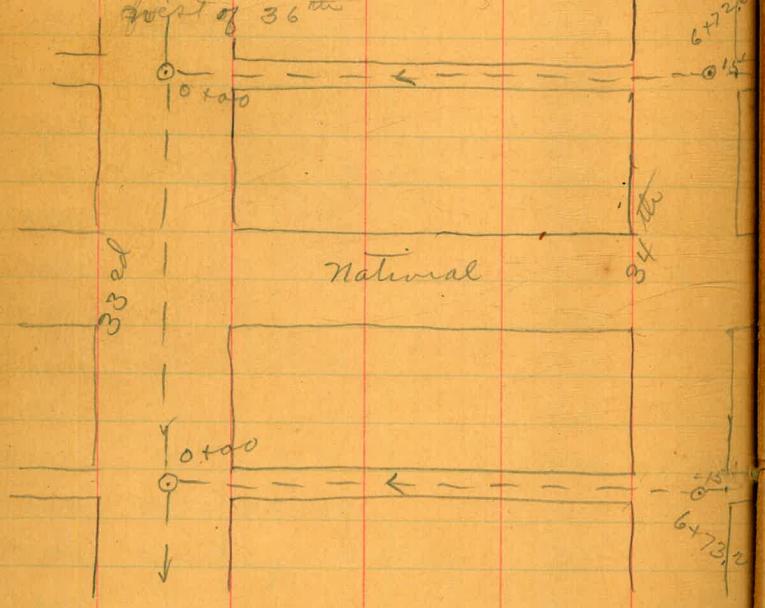
Sta.		H.I.	Rod	Elev.
T.P. 7+50	12.41	21.59	0.27	9.18
			1.6	20.0
T.P. +75	12.97	34.50	0.06	21.53
			8.2	26.3
8+00	about 10' deep.		7.5	27.0
+50			7.2	27.3
9+00			7.7	26.8
+50			11.7	22.8
+79	about 4' deep.		12.9	21.6
10+00			11.5	23.0
+50			2.5	32.0
T.P. 11+00	10.31	44.04	0.77	33.73
	not less than 8' deep.		7.6	36.4
+31			5.5	38.5
+50			6.7	37.3
+83			8.4	35.6
12+00	about 7' deep.		7.3	36.7
+50			6.6	37.4
13+00			4.6	39.4
+50	about 6.5' deep.		3.9	40.1
14+00	anything over 5' deep.		3.9	40.1
+50			2.1	41.9
T.P. 15+00	11.98	55.60	0.42	43.62
			11.6	44.0
+50			9.4	46.2
16+00			8.1	47.5

Oct. 18/12 { Childs, Taylor, Otten

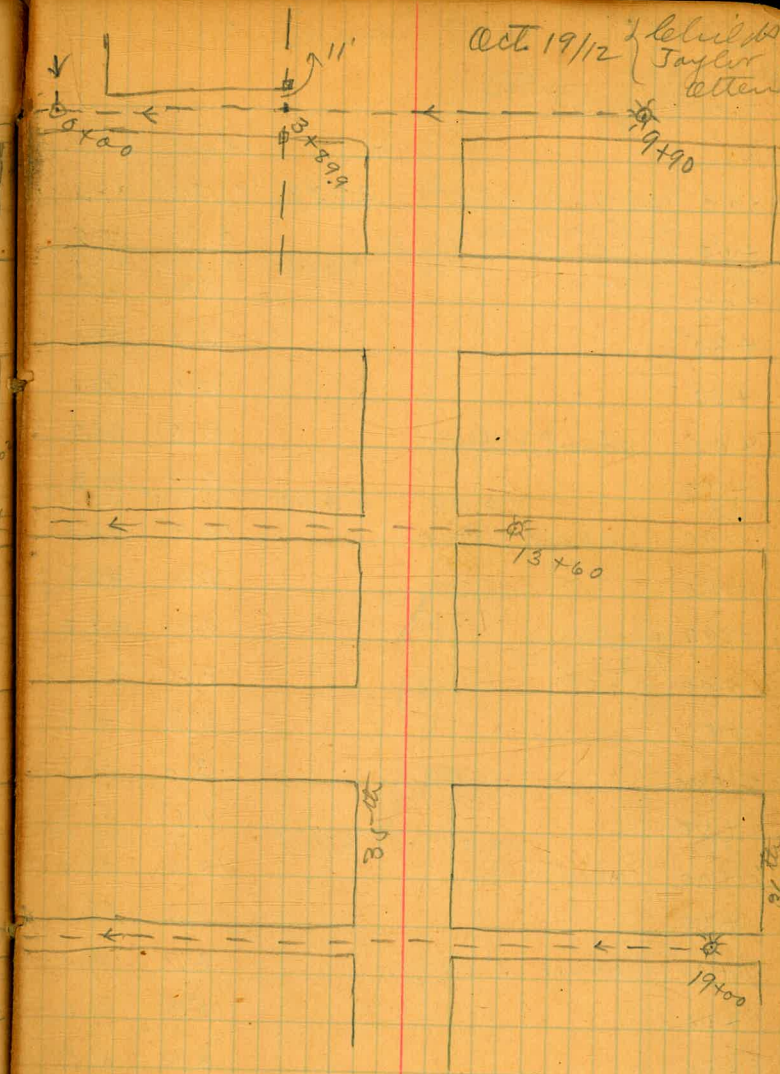
Cont. from page 69

Sta.		H.I.	Rod	Elev.
16+50	B-3	55.60	6.1	49.5
17+00			5.6	50.0
+50			3.7	51.9
18+00			2.0	53.6
+50			1.3	54.3
19+00	F.I. about 48' west of 36th		2.66	53.0

about 6' deep



Oct. 19/12 { Childs, Taylor, Otten



North Lane from center 34th ave
East of 35th

Sta.		H.I.	Rod	Elev.
0+00	M.H. Center of 34th	28.92	11.35	17.57
+50	north & 11' so. of		3.7	25.2
T.P.	North line of South	12.04	40.67	0.29	28.63
1+00	Lane.			8.8	31.9
+25				6.2	34.5
+50				4.6	36.1
2+00	abut 8' deep.			2.5	38.7
+50				0.4	40.3
T.P.		12.48	53.10	0.05	40.62
3+00	abut 5' deep.			10.9	42.2
+50				9.4	43.7
+89.9	property line			7.8	45.3
	153.55 west				
4+00	of 35th			7.6	45.5
+50				5.3	47.8
5+00				3.0	50.1
+50				1.5	51.6
T.P.		12.97	65.77	0.30	52.80
6+00	abut 5' deep			12.0	53.8
+50				9.3	56.5
7+00	abut 7' deep,			6.7	59.1
+50				5.8	60.0
8+00				4.4	61.4
+50				1.8	64.0
T.P.		5.62	70.54	0.85	64.92
9+00				4.0	66.5
+50				2.7	67.8
+90	H.S. abut 5' deep			3.84	66.70

North to sta 9+90
Oct. 19/12 { Childs, Taylor, Allen

Sewers in 32nd from center of Greeley to center alley bet. Valle & Woolman

Oct. 22/12 } Childs Tayler Otten

72

Sta.			H.I.	Rod	Elev.
T.P. 0+00	M.H. center of 32nd & Greeley		28.96	10.78	18.18
+50				6.5	22.5
T.P. 1+00		12.92	41.69	0.19	28.77
				12.6	29.1
+27				9.6	32.1
+50				8.4	33.3
+89.8	center alley bet. Greeley & Martin			6.37	35.3
2+00				5.8	35.9
+50				3.1	38.6
3+00				2.2	39.5
+50				0.7	41.0
4+00				0.9	40.8
+50				3.3	38.4
5+00				3.4	38.3
T.P. +50		11.75	53.43	0.01	41.68
				11.7	42.7
+69.58	M.H. center alley bet. Martin & Valle.			10.49	43.0
6+00				8.8	44.6
+50				5.5	47.9
7+00				1.5	51.9
T.P. +50		10.21	63.00	0.64	52.79
				8.0	55.0
8+00				6.4	56.6
+50				5.2	57.8
9+00			-✓	3.9	59.1
+50	M.H. center alley bet. Valle & Woolman			2.56	60.4

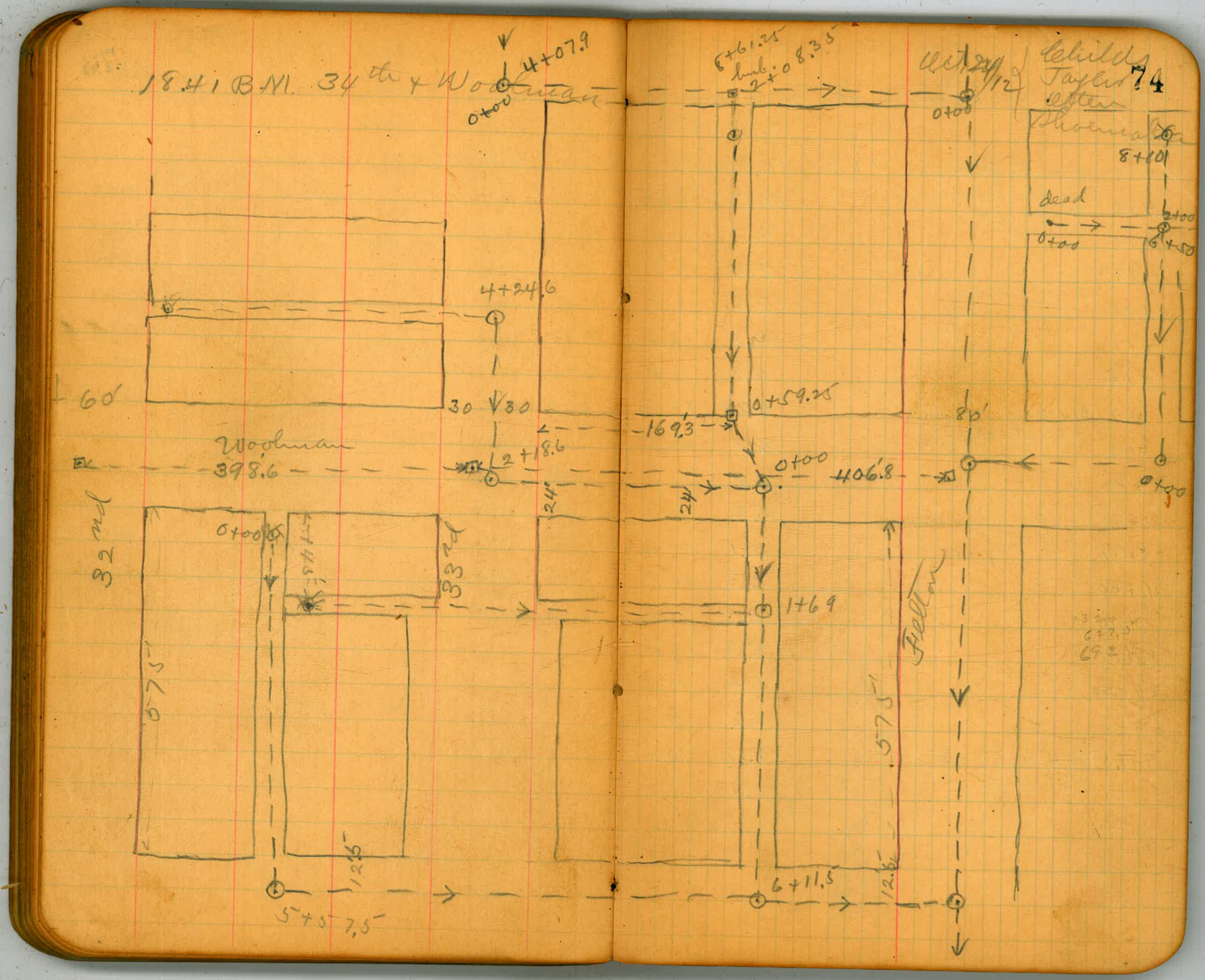
Sheet B32

Sewer line from center alley west of Felton so. of woolman Oct. 23/12 } Childs
+10' no. of so. curb of woolman up woolman to center of 33rd + north } Jay
to center alley. } Otter
Shoemaker

73

Sta.		Hat.	Rod	Elev.
0+00	M.H. center alley bet. Felton + 33rd on so. of woolman + 10' no. of so. curb. of woolman.	17.01	11.21	5.80
+50			7.7	9.3
+76			5.0	12.0
J.P.	12.74	29.14	0.61	16.40
+83			12.1	17.0
1+00			8.8	20.3
+35			0.7	28.4
J.P.	12.60	41.26	0.48	28.66
+50			11.6	29.6
2+00			8.4	32.8
+18.6	M.H. center 33rd + 10' north of so. curb. of woolman.		6.90	34.36
+50			6.8	34.4
3+00			5.2	36.1
+50			3.3	38.0
4+00			0.4	40.9
J.P.	2.62	43.44	0.44	40.82
+24.6	M.H. center alley bet. woolman + Franklin		0.83	42.6

Sheet B. 31


18.41 B.M. 34th & Woolman
4+07.9
0+00
8+61.25
hub 2+08.35
Oct 24/12
Childs
Taylor
Otten
Shoemaker
8+10
dead
2+00
0+00
6+50
4+24.6
60'
30
30
0+59.25
169.3
80'
Woolman
398.6
2+18.6
0+00
406.8
0+00
24
24
32nd
0+00
33rd
1+69
Felton
575'
575'
12.5
12.5
6+11.5
5+57.5

alley line so. of woolman bet. Felton
South line of woolman to sta. 6+11.5

Sta. T.P.		H.I.	Rod	Elev.
0+00	M.H. 24 North so. line of woolman. center alley west of Felton	16.74	10.94	5.80
+50			10.3	6.4
+71			6.7	10.0
+92			8.4	8.3
1+00			7.8	8.9
+17			3.5	13.2
+50			4.8	11.9
+69	M.H. center of east + west alley.		4.78	11.96
2+00			4.7	12.0
+50			4.8	11.9
3+00			5.2	11.5
+50			5.1	11.6
4+00			5.8	10.9
+50			5.3	11.4
5+00			5.3	11.4
+50			5.4	11.3
6+00			5.6	11.1
+11.5	M.H. center S st. 25' wide		6.10	10.64

Sheet B 31

✓

+ 332d from 24' north of Oct. 24/12 center of 25' Street (S Street)

Chicago Taylor Otten Shoemaker

Alley line North of Woolman — bet. Felton + 33rd — Oct 24/12 — Childs Tailor Otten

from 24' North of So. line of Woolman to 2' north of Arcutts Sub.

Sta			H.I.	Rod	Elev.
J.P. 0+00	M.H. center alley So. of Woolman + 24' No. of So. line		17.48	11.68	5.80
+30				9.5	8.0
+50				8.5	9.0
+59.25	Hub. center alley + North line of Woolman			8.17	9.3
+81				7.5	10.0
+97				4.7	12.8
1+00				4.5	13.0
J.P.		12.78	29.51	0.75	16.73
+50				4.0	25.5
J.P.		9.46	36.56	2.41	27.10
+59				6.5	30.1
2+00				7.5	29.0
+33				5.3	31.3
+50				4.7	31.9
3+00				4.9	31.7
+50				4.9	31.7
4+00				3.4	33.2
+50				2.6	34.0
J.P.		11.61	47.84	0.33	36.23
5+00				11.5	36.3
+50				10.2	37.6
6+00				8.4	39.4
+50				6.7	41.1
7+00				5.2	42.6
+50				4.9	42.9
8+00				7.4	40.4

Sta		H.I.	Rod	Elev.
J.P.	1.20	36.54	12.50	35.34
8+50			6.7	29.8
+61.25	M.H. 2' north of North line of Arcutts Sub.		9.63	26.91

✓

Q. 32

alley line bet. 32nd & 33rd from
to. 12.5 so. of Spencer's add center

Sta.			H.I.	Rod	Elev.
J.P.		12.80	47.16		34.36
0+00	F.T. 30' so. of Woolman.		about 5' deep.	6.67	40.49
+42				8.9	38.3
+50				8.6	38.6
+80				5.6	41.6
1+00				4.2	43.0
+50				3.7	43.5
2+00	about 11' deep.			3.8	43.4
+50				3.2	44.0
3+00				2.2	45.0
+50				4.4	42.8
4+00				7.8	39.4
J.P.		0.24	36.61	10.79	36.37
+50				3.2	33.4
5+00				8.9	27.7
+50				12.8	23.8
+57.5	M.H. 12.5 so. of Spencer's Sub. center S. street 25' wide			13.15	23.46

Sheet B 32

1.2

30' so. of woolman of S street Oct. 25/12

Childs
Taylor
Olsen
Sholmaker

77

S. Street from center alley bet. center of Felton

Sta.		H.I.	Rod	Elev.
0+00	M.H. Center alley	23.88	0.42	23.46
J.P. +50	east of 32nd + 12½ so. of Spencer's Sub.		3.1	20.8
1+00			3.8	20.1
+18			4.7	19.2
+50			11.0	12.9
J.P. 2+00	2.42	13.09	13.21	10.67
			6.2	6.9
+12			8.7	4.4
+22			9.7	3.4
+39			6.6	6.5
+50			6.1	7.0
3+00			4.7	8.4
+50			5.1	8.0
4+00			3.9	9.2
+37	M.H. center alley bet. 33rd + Felton		2.46	10.7
+50			2.1	11.0
5+00			2.2	10.9
+50			3.1	10.0
6+00			3.5	9.6
+25.1	M.H. center of Felton & S. 1/25 Street		3.56	9.53

Sheet B-31

S. 2nd + 33rd to Oct. 25/12 { Childs, Taylor, Otter, Shoemaker

78

East & west alley from 30' east of alley bet. 32nd & 33rd to center alley bet. 33rd & Felton

Sheet B-32

Sta.			H.I.	Rod	Elev.
T.P.	(about 9' deep)	3.89	44.38		40.49
0+00	F.S. 30' east of alley bet. 32nd & 33rd			1.89	42.5
+21				4.1	40.3
+31				9.9	34.5
+50				11.5	32.9
T.P.		0.13	33.03	11.48	32.90
+70				1.8	31.2
+87				6.9	26.1
+97				12.0	21.0
1+00				11.8	21.2
+05				7.9	25.1
+20				5.3	27.7
+50				7.2	25.8
+66				10.7	22.3
T.P.		0.45	20.83	12.65	20.38
2+00				11.6	9.2
+11				16.7	4.1
+21				15.9	4.9
+26				13.8	7.0
+45				11.6	9.2
+50				12.8	8.0
+84				16.7	4.1
3+00				15.7	5.1
+13				11.3	9.5
+43				11.5	9.3
+50			✓	8.5	12.3
+96	M.H. center alley bet. [illegible]			8.87	11.9

Oct 25/12 Childs Taylor Utter Shoemaker

Sta.	H.I.	Rod	Elev.

118.72
5.04
123.76
119.82
3.94

ving
co.

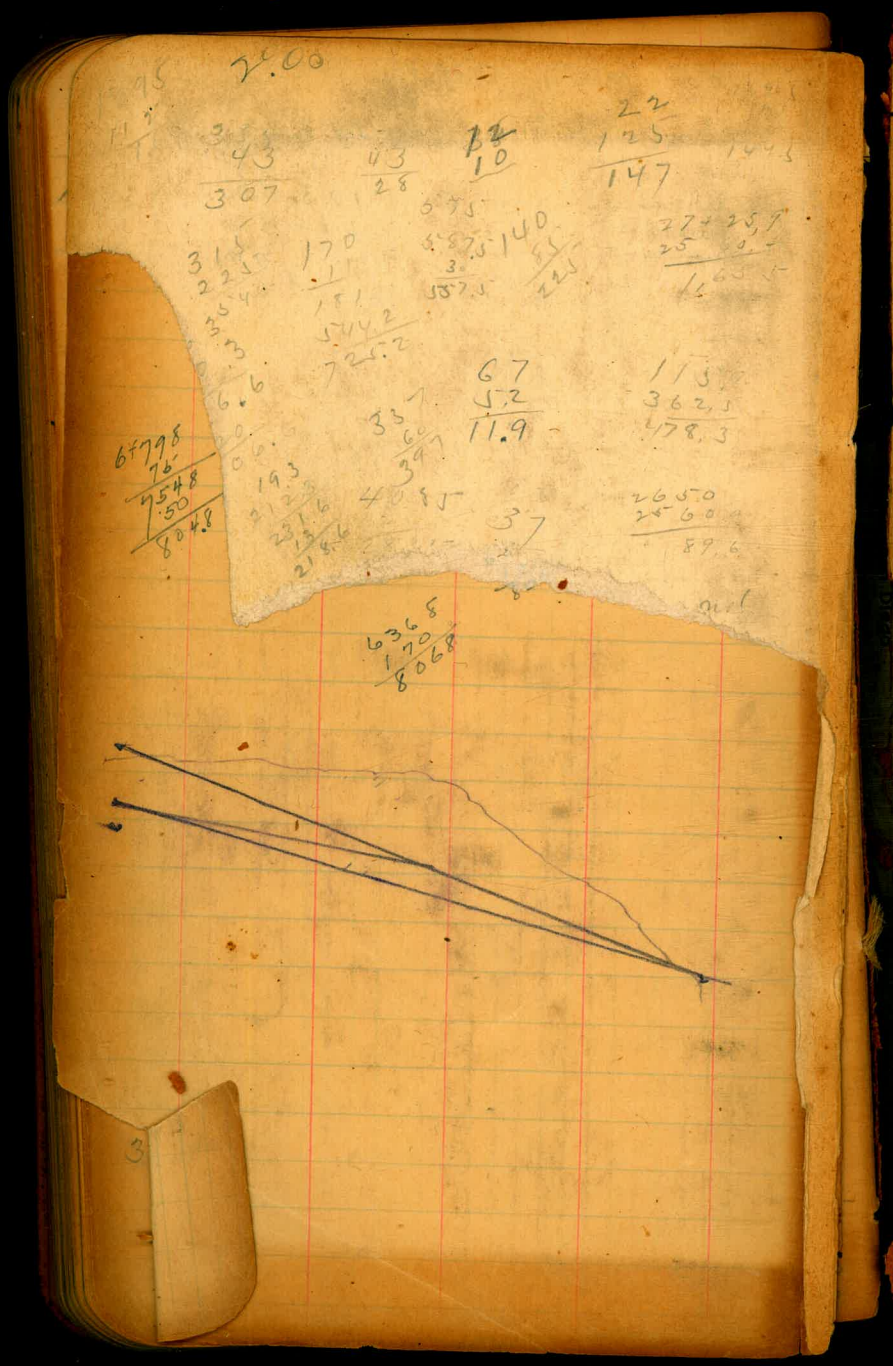
re in
s.

				TES.	LKS.
				2703.35	
				2366.95	
				336.35	
				1	95⅔
				2	98
				43	100⅓
				44	102⅔
				45	105
				46	107⅓
				47	109⅔
				48	112
				49	114⅓
				50	116⅔
		31		51	119
	28	32		52	121⅓
13	30⅓	33	77	53	123⅔
14	32⅔	34	79⅓	54	126
15	35	35	81⅔	55	128⅓
16	37⅓	36	84	56	130⅓
17	39⅔	37	86⅓	57	133
18	42	38	88⅔	58	135⅓
19	44⅓	39	91	59	137⅔
20	46⅔	40	93⅓	60	140

TABLE FOR RUNNING ON SLOPES.

In the following table the first column shows the angle, the second the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

ANGLE	COR. IN LINKS	ANGLE	COR. IN LINKS	ANGLE	COR. IN LINKS	ANGLE	COR. IN LINKS
°		°		°		°	
4	0.24	11	1.88	18	5.14	25	10.54
5	0.38	12	2.24	19	5.76	26	11.26
6	0.55	13	2.63	20	6.42	27	12.24
7	0.76	14	3.06	21	7.11	28	13.37
8	0.98	15	3.53	22	7.85	29	14.34
9	1.24	16	4.02	23	8.64	30	15.47
10	1.55	17	4.56	24	9.47	35	22.07



Published by H. S. Crocker Company, Stationers, Drawing Materials, and Mathematical Instruments, San Francisco.

Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

MINUTES.	LKS.	MINUTES.	LKS.	MINUTES.	LKS.
1	2⅓	21	49	41	95⅔
2	4⅔	22	51⅓	42	98
3	7	23	53⅔	43	100⅓
4	9⅓	24	56	44	102⅔
5	11⅔	25	58⅓	45	105
6	14	26	60⅔	46	107⅓
7	16⅓	27	63	47	109⅔
8	18⅔	28	65⅓	48	112
9	21	29	67⅔	49	114⅓
10	23⅓	30	70	50	116⅔
11	25⅔	31	72⅓	51	119
12	28	32	74⅔	52	121⅓
13	30⅓	33	77	53	123⅔
14	32⅔	34	79⅓	54	126
15	35	35	81⅔	55	128⅓
16	37⅓	36	84	56	130⅓
17	39⅔	37	86⅓	57	133
18	42	38	88⅔	58	135⅓
19	44⅓	39	91	59	137⅔
20	46⅔	40	93⅓	60	140

TABLE FOR RUNNING ON SLOPES.

In the following table the first column shows the angle, the second the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

ANGLE	COR. IN LINKS	ANGLE	COR. IN LINKS	ANGLE	COR. IN LINKS	ANGLE	COR. IN LINKS
°		°		°		°	
4	0.24	11	1.88	18	5.14	25	10.54
5	0.38	12	2.24	19	5.76	26	11.26
6	0.55	13	2.63	20	6.42	27	12.24
7	0.76	14	3.06	21	7.11	28	13.37
8	0.98	15	3.53	22	7.85	29	14.34
9	1.24	16	4.02	23	8.64	30	15.47
10	1.55	17	4.56	24	9.47	35	22.07