iddletown Div. Line
wer Reservoir Level Notes
and
isc. Street x Sections

F.B.4

2

MICROFILMED
DEC 1 1964

Return to City Engineers Office
City Hall, San Diego, Cal.

e 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

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SAN FRANCISCO, CAL.

Table for Running on Slopes.

In the following table the first column shows the angle, the second, th links to be added to a chain on the slopes, to make one chain, horizontal measu

Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	C
°		°		°		°	
4	0·24	11	1·88	18	5·14	25	
5	0·38	12	2·24	19	5·76	26	
6	0·55	13	2·63	20	6·42	27	
7	0·76	14	3·06	21	7·11	28	
8	0·98	15	3·53	22	7·85	29	
9	1·24	16	4·02	23	[illegible]	30	
10	1·55	17	4·56	24	[illegible]	[illegible]	

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.55 . 5

Div Line bet H.A. & McT

592.73	27° 12'	N 41° 05' W	Right			
302.53	7° 18'		Right			
0	24° 45'		Left			

Beginning at Mon 20. B.S. to a point on preceding course on S 7' line of Hawthorne St.

Monument 21

Plg.

Monument 20.

Div Line bet H.A. & M.T.

3+04.74		Pt on Line.	
1+45.74	N 46° 0' W	Pt on Line	Pbg.
57.38		Pt on Line	Pbg.
2.55		Mutney	
869.45		18° 25' Left	Monument 23 ✓
488.03	N 27 30' W	Maple St	Pbg
104.95		Samuel St	Pbg
524.46	N 14° 0' W	13° 39' Left.	Monument. 22.

Div Line bet HA & MT

6+50.38	Pt on line	Plg.
	Spruce	
3+14.4	55° 40' W Pt on line	Plg.
3+03.59	Redwood St	Plg.
2+15.16	Pt on line	Plg.
14+97.8	9° 44' 15" Left	Monument 24 ✓
14+19.06	Quince Street	
10+36.52	Palm St	Plg
664	Bottom of Creek	
5+25.47	Olive st	Plg.

Div Line bet HA & MT

24+84.28	27° 07' 45" Left
23+19.7	Pt on Line
22+14.78	Vine St
21+78.15	Pt on line
19+17.66	Pt on Line
	Vas St
	Pt on Line
	Thorn
	Pt on Line
	Sassafras St

Monument 25

269.5

Plg

Plg

381.6

Plg.

382.44

Plg

Plg

383.58

Plg.

Plg.

2) 20 39
10 1911

Div Line bet HA & MT

11+91.72		Stone
7+82.24		McNealy
3+72.75		McKee St
15+26.86	(10° 19') ~~10 1½~~	Right
14.85.16		Pierce
14+53.16		Pt on Line
10+34.78		Winder
8+40.88	N 83° 0 W	Pt on Line
5+84.37		Chalmer
1+34.03		Willow St

601.04
Plg.
Plg
Plg
Monument 26
Plg
Plg
Plg.
Plg
Plg.
Plg

34+06.67	N Line of Witherbee St Old Town Line	monument NO 1
33+26.44	South Line of Witherbee St	Plg
30+53.99	Coutz St	Plg.
26.72.99	Bandini St	Plg.
22+92.19	Wright St	Plg
19+09.92	Estudillo St	Plg.
17+92.76	California St	Plg.

May 31 1889

Hamlin Boo
Orton Leve
Williams Roo
Hensley

Elevations on San Diego & Hue RR

Sta	+	HI	-	Elev	Grade	Var Grade	
BM	1.23	6.87		5.64		0.6 Dip to Sub	Cal & B Sts
0			7.7	-0.83	3.0	-3	Line of B St
1+50			7.7	-0.83			
#	4.77	4.00	7.64	-0.77			
3			4.8	-0.80	2.5	-2	Line A St
0			4.6	-0.60	2.5	-2	Line A St
1+50			5.2	-1.20			
3			4.9	-0.90	1.5	-1	Line Ash St
0			5.1	-1.10	1.5	-1	Line Ash St
1+50			4.8	-0.80			
3			4.8	-0.80	1.5	-1	Line Beech St
#	3.86	3.84	4.02	-0.02			
0			4.8	-0.96	1.5	-1	Line Beech St
1+50			4.6	-0.76			
3			4.7	-0.86	1.5	-1	Line Cedar St
0			4.7	-0.86	1.5	-1	Line Cedar St
1+50			4.6	-0.76			
3			4.6	-0.76			
4+10			4.8	-0.96	0.5	-0	Line Elm St — lined in by fences
#	11.90	14.56	1.18	2.66			
#	8.06	21.26	1.36	13.20			
			5.26	16.00	BM Cal &		dar Sts

(OK)

Levels on top of Outlet pipe West of Atlantic to Reservoir.

Sta	+	HI	-	Elev of top of Wharf	From top of Wharf	Ele Pip
B.M.	7.60	7.24		-0.36		
#	4.53	6.91	4.76	2.38		
0			5.03	1.88	7.92	- 6 = West line of Atlantic St.
+25			5.20	1.71	7.65	- 5
+50			5.04	1.87	7.83	- 5
+75			4.71	2.20	8.10	- 5
1			4.67	2.24	8.25	- 6
+25			4.70	2.21	8.30	- 6
+50			4.69	2.22	8.30	- 6
+75			4.71	2.20	8.25	- 6.
2+0			4.78	2.13	8.15	- 6.
+25			4.77	2.14	8.29	- 6
+50			4.81	2.10	8.15	- 6.
+75			4.82	2.09	8.23	- 6
3			4.83	2.08	8.24	- 6
+25			4.80	2.11	8.20	- 6
+50			4.82	2.09	8.18	- 6
+75			4.79	2.12	8.30	- 6
4			4.78	2.13	8.28	- 6
+25			4.78	2.13	8.25	- 6
+50			4.80	2.11	8.14	- 6

Levels on Outlet pipe from West of Atl & H to Reservoir

Sta	+	HI	−	Elev	From top of Wharf	to top of P
		6.91				
4+75			4.83	2.08	8.25	-6.
5+0			4.80	2.11	8.20	-6.
+25			4.87	2.04	8.25	-6.
+50			4.87	2.04	8.24	-6.
#	4.44	6.53	4.82	2.09		
+75			4.50	2.03	8.29	-6.
6			4.43	2.10	8.20	-6.
+25			4.44	2.09	8.39	-6.
+50			4.53	2.00	8.24	-6.
+75			4.47	2.06	8.30	-6.2
7			4.44	2.09	8.37	-6.2
+25			4.50	2.03	8.35	-6.3
+50			4.45	2.08	8.40	-6.
+75			5.00	1.53	✓	-
8			5.04	1.49	✓	
+25			5.05	1.48	✓	
+50			5.08	1.45		
+75			4.40	2.13	8.54	-6
9			4.40	2.13	8.50	-6
+25			4.33	2.20	8.70	-6

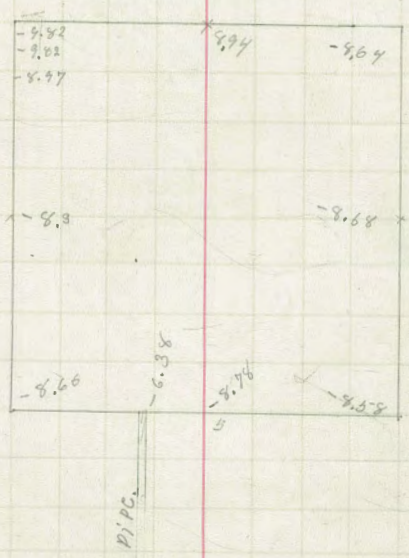
Spreader Wharf

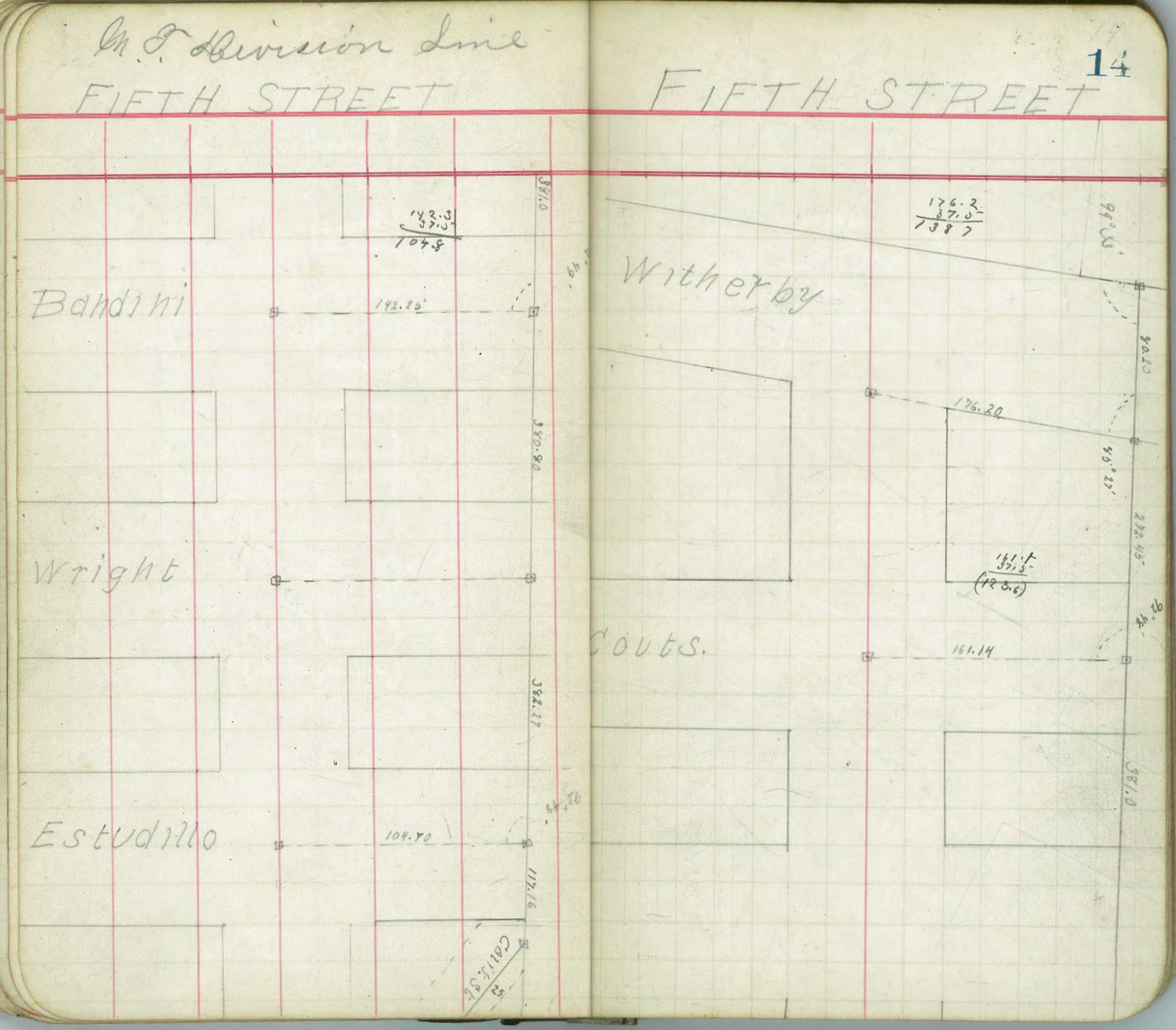
Levels Top of Outlet pipe from West of 8th & H to Reservoir

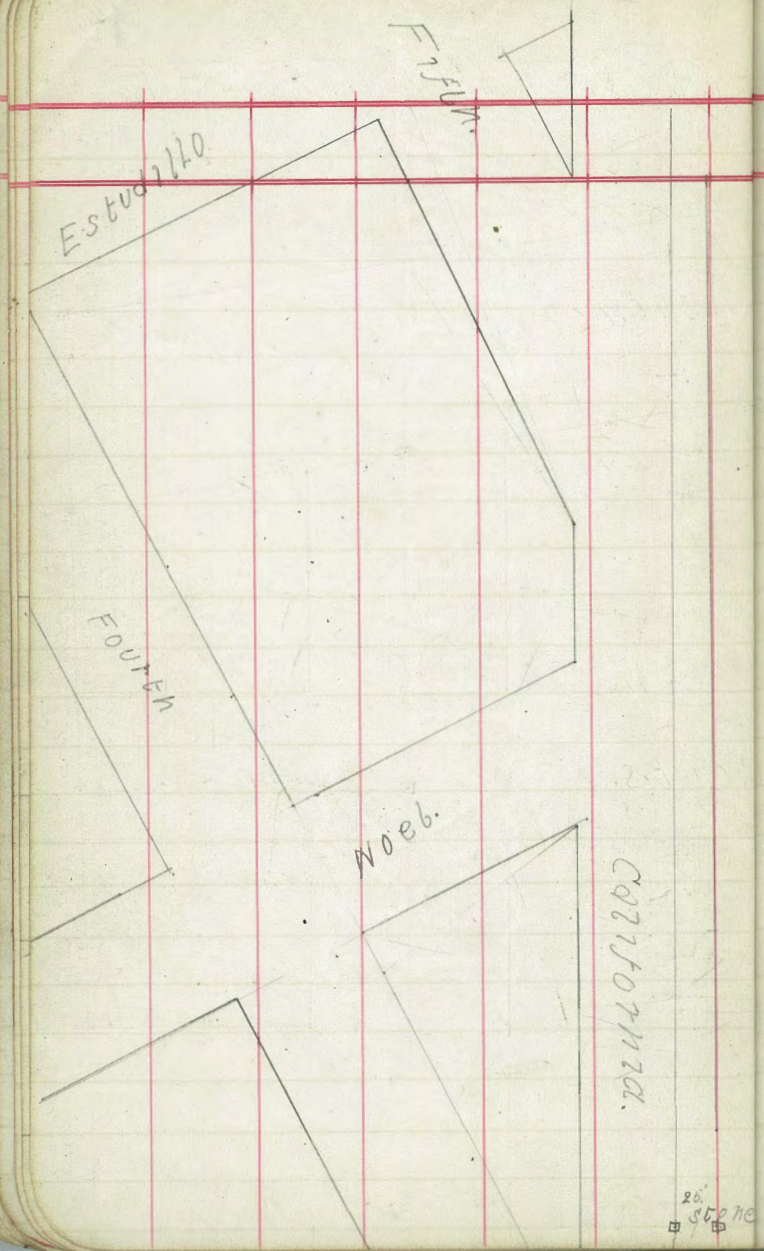
Sta	+	H.I.	-	Elev		
		6.53				
9+50			4.34	2.19	4.61	-6.
+75			4.33	2.20	4.65	-6.
10			4.33	2.20	4.70	-6.
+25			3.11	3.42	Cap in ivy	
+50			2.12	4.41	10.88	-6
+75			1.07	5.46	11.99	-6.
11.			1.07	5.46	12.03	-6 Bulkhead
+03			1.08	5.45		-
BM			7.99	-1.46		elf in first pile E from SW cor

Sta	+	H.I.	−	Elev	measured from top of track	
B.M.	6.48	5.02		-1.46		
1			4.98	-0.04	8.90	8.
2			4.98	-0.04	8.60	-8.
3			5.00	+0.02	8.70	-8.
4			5.00	+0.02	8.60	-8.
5			5.00	0.02	8.8	-8
6			11.40	− 6.38	Inside of Top of pipe	
7			4.78	0.22	8.9	-8
8			4.98	0.04	4.7	-
Top of wall to gate chamber			5.09	-0.07	9.75	-9.
Bottom of inlet				"	-8.90	-8.
Bottom of bell chamber				"	8.75	-9.

Top of Reservoir




M. T. Division Line
FIFTH STREET
FIFTH STREET
Bandini
Wright
Estudillo
Witherby
Couts.
142.3
37.5
104.8
142.25
380.80
382.27
104.70
117.16
176.2
37.5
138.7
176.20
161.1
37.5
(123.6)
161.14
381.0
80.20
272.45


Estudillo
Fourth
Woeb.
California.
Stone

June 5 1889
Hamlin
Orton
Williams

Fourth Standard Line South [illegible] cor 35|34 / 2|3 check of drop

(R3W)

14+70.97 to Meander corner, Plg in Mound

N 62° 25' W

8+50 70° 58 Right

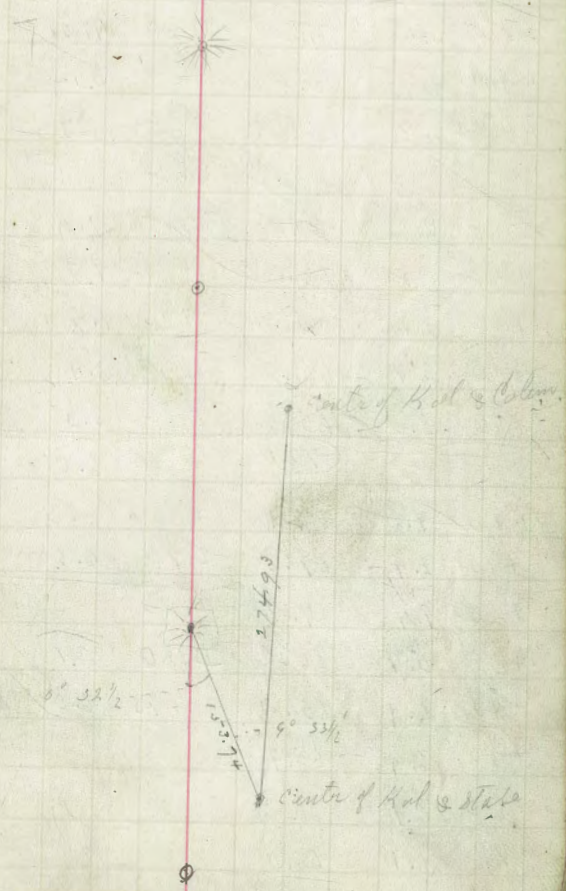
S 46° 35' W

0 10° 32½ Right

Sep up on cor of Sec 2+3 34 - 3

B.S. to Centre of Kal & State

L 0° 32½ Right



Cross Sections of School house & B St betn 6th & 7th

Sta	Rod	Elev	Sta	Rod	Elev	BM	+	HI	−	Elev
		69.50			✓					
H+0	3.7	65.8	G+0	3.1	66.4	60.68	8.78	69.46		
+10	4.4	65.1	+10	4.2	65.3					
+20	4.5	65.0	+20	4.0	65.5					
+30	4.1	65.4	+30	3.1	66.4					
+40	3.9	65.6	+40	3.7	65.8					
		✓								
F+0	2.6	66.9	E+0	1.8	67.7					
+10	3.1	66.3	+10	1.9	67.6					
+20	3.6	65.9	+20	1.7	67.8					
+30	2.9	66.6	+30	3.4	66.1					
+40	3.6	65.9	+40	3.5	66.0		5.97	72.07	3.36	66.10
		72.1	+50	6.0	66.1					
D+0	4.0	68.1	+60	6.3	65.8					
+10	2.9	69.2	+70	6.6	65.5					
+20	4.9	67.2			✓					
+30	5.9	66.2	D+80	6.1	66.0					
+40	6.4	65.7	+90	6.0	66.1					
+50	6.4	65.7								
+60	6.1	66.0								
+70	6.1	66.0								

Cross Section of B St. Schoolhouse Lot

Sta	Rod	Elev	Sta	Rod	Elev	Sta	+	HI	-	Elev
		(72.1)								
C+0	3.6	68.5	B+0	3.8	68.3			72.07		
+10	2.3	69.8	+10	2.3	69.8	2.64		63.55	11.18	60.89
+20	4.2	67.9	+20	3.5	68.6				5.10	58.45
+30	5.2	66.9	+30	4.6	67.5					
+40	5.6	66.5	+40	5.1	67.0					
+50	5.7	66.4	+50	5.1	67.0					
+60	6.1	66.0	+60	5.6	66.5					
+70	6.1	66.0	+70	5.8	66.3					
+80	6.2	65.9	+80	4.8	67.3					
+90	6.3	65.8	+90	6.1	66.0					
A+0	3.1	69.0								
+10	3.2	68.9								
+20	3.4	68.2								
+30	4.3	67.8								
+40	4.1	68.0								
+50	5.0	67.1								
+60	5.2	66.9								
+70	5.4	66.7								
+80	6.1	66.0								
+90	6.1	66.0								

June 6 1889

Hamlin Book
Orton Level
Williams Rod
Hensley

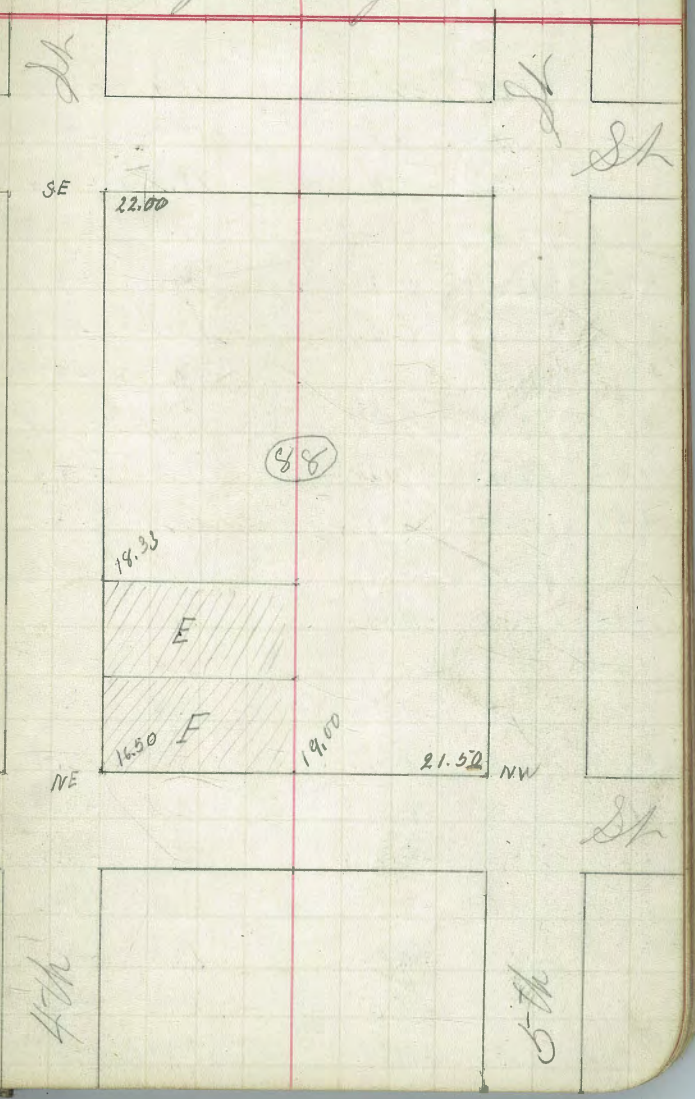
BM	+	HI	Grade	Rod	-	

3 grades for Lots E & F. Be
88 H.A.
For Mr J.P. Backesto.

			BM. No. Good			
24.465	0.155	24.620				
		NE	16.50	8.12		
		1+0	18.33	6.29		
		1+0	19.00	5.62		
#	4.435	24.965			4.09	2
B.M.	5th &	H Sts			1.91	2
23.023	1.91	24.933				
			19.00	5.933		
			16.50	8.433		
#	4.565	24.853			4.645	2
			18.33	6.523		
B.M. 24.465	6.22	30.683			0.39	BM 2
B.M. 28.329					2.33	BM 2

Chk
J. McShane
City Eng.
6/6/89

Curb Grades given



Elev in Sewer Reservoir

	Top of deposit			Bottom of Tank						
Sta	Rod	Elev		Rod	Elev	Mx	+	HI	−	Elev
			(4.9)							
A	13.4	-8.5		13.4	-8.5		6.37	4.91		-1.46
+10	13.4	-8.5		13.9	-9.0					
+20	13.3	-8.4		13.5	-8.6					
+30	13.4	-8.5		13.7	-8.8					
+40	13.2	-8.3		14.0	-9.1					
+50	13.1	-8.2		13.6	-8.7					
+60	13.5	-8.6		13.8	-8.9					
+70	13.1	-8.2		13.6	-8.7					
+80	13.1	-8.2		13.4	-8.5					
+90	13.2	-8.3		13.4	-8.5					
1+0	13.3	-8.4		13.7	-8.8					
+10	13.4	-8.5		13.5	-8.6					
+20	13.5	-8.6		13.8	-8.9					
+30	13.4	-8.5		13.8	-8.9					
+40	13.4	-8.5		13.7	-8.8					
+50	13.3	-8.4		13.8	-8.9					
+60	13.5	-8.6		14.2	-9.3					
+70	13.9	-9.0		14.9	-10.0					
+80	13.4	-8.5		13.7	-8.8					
+90	13.5	-8.5		13.5	-8.6					
2+0	13.3	-8.4		13.5	-8.6					

Elev in Sewer Reservoir

	Top of Deposit			Bottom of Tank						
	Rod	Elev		Rod	Elev	Sta	+	HI	−	Elev
			-3.3							
B	4.9	8.2		5.1				4.91		
+10	5.0	8.5		5.2	-8.5		2.99	-3.29	11.79	-6.24
+20	4.9	-8.2		5.4	-8.7					
+30	5.0	-8.3		5.5	-8.8					
+40	5.0	-8.3		5.4	-8.7					
+50	4.8	-8.1		5.5	-8.8					
+60	5.0	-8.3		5.4	-8.7					
+70	4.8	-8.1		5.2	-8.5					
+80	5.1	-8.4		5.2	-8.5					
+90	5.1	-8.4		5.3	-8.6					
1	5.0	-8.3		5.4	-8.7					
+10	5.0	-8.3		5.6	-8.9					
+20	5.1	-8.4		5.6	-8.9					
+30	5.0	-8.3		5.6	-8.9					
+40	5.1	-8.4		5.5	-8.8					
+50	5.0	-8.3		5.6	-8.9					
+60	5.0	-8.3		5.4	-8.7					
+70	5.0	-8.3		5.4	-8.7					
+80	4.9	-8.2		5.3	-8.6					
+90	4.8	-8.1		5.3	-8.6					
2+00	5.2	-8.5		5.6	-8.9					

Elev. in Sewer Reservoir

	Top of Weir			Bottom of Do	
	Rod	Elev		Rod	Elev
			-3.3		
0	4.8	-8.1		5.4	-8.7
+10	4.9	-8.2		5.2	-8.5
+20	4.9	-8.2		5.3	-8.6
+30	4.9	-8.2		5.4	-8.7
+40	4.9	-8.2		5.6	-8.9
+50	4.9	-8.2		5.5	-8.8
+60	5.0	-8.3		5.6	-8.9
+70	5.0	-8.3		5.4	-8.7
+80	5.0	-8.3		5.4	-8.7
+90	4.9	-8.2		5.3	-8.6
1	4.9	-8.2		5.3	-8.6
+10	5.0	-8.3		5.6	-8.9
+20	5.0	-8.3		5.6	-8.9
+30	4.9	-8.2		5.5	-8.8
+40	4.9	-8.2		6.0	-9.3
+50	5.2	-8.5		6.1	-9.4
+60	5.0	-8.3		5.8	-9.1
+70	5.0	-8.3		5.3	-8.6
+80	4.9	-8.2		5.2	-8.5
+90	4.8	-8.1		5.0	-8.3
2+0	4.8	-8.1		5.6	-8.9

Elev. in Sewer Reservoir

	Top of Reservoir			Bottom of R	
Stn	Rod	Elev		Rod	Elev
			-3.5		
28	4.9	-8.2		5.5	-8.8
+10	5.0	-8.3		5.4	-8.7
+20	5.0	-8.3		5.5	-8.8
+30	5.0	-8.3		5.6	-8.9
+40	4.9	-8.2		5.5	-8.8
+50	4.9	-8.2		5.5	-8.8
+60	5.0	-8.3		5.4	-8.7
+70	5.0	-8.3		5.6	-8.9
+80	5.0	-8.3		5.3	-8.6
+90	5.0	-8.3		5.3	-8.6
1	4.8	-8.1		5.1	-8.4
+10	5.0	-8.3		5.4	-8.7
+20	5.0	-8.3		5.8	-9.1
+30	5.0	-8.3		5.4	-8.7
+40	5.1	-8.4		5.7	9.0
+50	4.9	-8.2		5.4	-8.7
+60	4.9	-8.2		5.4	-8.7
+70	4.9	-8.2		5.5	-8.8
+80	4.7	-8.0		5.0	-8.3
+90	4.7	-8.0		4.9	-8.2
2.00	4.9	-8.2		5.3	-8.6

Elev. in Sewer Reservoir

	Top of Deposit			Bottom of Top	
	Rod	Elev		Rod	Elev
			(-3.3)		
E	5.0	-8.3		5.3	-8.6
+10	4.9	-8.2		5.3	-8.6
+20	4.9	-8.2		5.5	-8.8
+30	5.0	-8.3		5.9	-9.2
+40	4.9	-8.2		5.7	-9.0
+50	4.8	-8.1		5.3	-8.6
+60	5.0	-8.3		5.4	-8.7
+70	5.0	-8.3		5.6	-8.9
+80	5.0	-8.3		5.5	-8.8
+90	4.8	-8.1		5.4	-8.7
1+0	4.8	-8.1		5.4	-8.7
+10	4.9	-8.2		5.5	-8.8
+20	5.0	-8.3		6.0	-9.3
+30	4.9	-8.2		5.9	-9.2
+40	5.0	-8.3		5.3	-8.6
+50	4.8	-8.1		5.6	-8.9
+60	4.7	-8.0		5.0	-8.3
+70	4.8	-8.1		5.2	-8.5
+80	4.7	-8.0		4.9	-8.2
+90	4.8	-8.1		5.0	-8.3
2+0	4.8	-8.1		5.1	-8.4

Elev. in Sewer Reservoir

	Top of Deposit			Bottom of Tank	
	Rod	Elev		Rod	Elev
			-3.3		
Ti	4.8	8.1		5.8	-8.6
+10	4.8	-8.1		5.4	-8.7
+20	4.8	-8.1		5.4	-8.7
+30	4.8	-8.1		5.0	-8.3
+40	4.8	-8.1		5.5	-8.8
+50	4.8	-8.1		5.2	-8.5
+60	4.9	-8.2		5.5	-8.8
+70	5.0	-8.3		5.6	-8.9
+80	4.9	-8.2		5.4	-8.7
+90	4.8	-8.1		5.5	-8.8
1+0	4.9	-8.2		5.5	-8.8
+10	4.9	-8.2		5.9	-9.2
+20	4.9	-8.2		5.6	-8.9
+30	4.9	-8.2		5.6	-8.9
+40	5.0	-8.3		5.9	-9.2
+50	4.8	-8.1		5.4	-8.7
+60	4.8	-8.1		5.0	-8.3
+70	4.9	-8.2		5.5	-8.8
+80	4.8	-8.1		5.1	-8.4
+90	4.9	-8.2		5.2	-8.5
2+0	4.8	-8.1		5.0	-8.3

Elev in Sewer Reservoir

	Top of Deposit			Bottom of De	
	Rod	Elev		Rod	Elev
			(-3.3)		
B	4.7	-8.0		5.3	-8.6
+10	4.8	-8.1		5.4	-8.7
+20	4.9	-8.2		5.4	-8.7
+30	4.7	-8.0		5.3	-8.6
+40	4.8	-8.1		5.4	-8.7
+50	4.9	-8.2		5.5	-8.8
+60	4.9	-8.2		5.5	-8.8
+70	4.8	-8.1		5.3	-8.8
+80	4.9	-8.2		5.7	-9.0
+90	4.9	-8.2		5.5	-8.8
1	4.8	-8.1		5.6	-8.9
+10	4.8	-8.1		6.2	-9.5
+20	4.8	-8.1		5.7	-9.0
+30	4.8	-8.1		5.6	-8.9
+40	4.8	-8.1		6.2	-9.5
+50	4.9	-8.2		5.8	-9.1
+60	4.9	-8.2		5.7	-9.0
+70	4.8	-8.1		5.2	-8.5
+80	4.8	-8.1		5.6	-8.9
+90	4.8	-8.1		5.2	-8.5
2+0	4.8	-8.1		5.4	-8.7

Elev in Sewer Reservoi

Top of Deposit Bottom of Tom

	Rod	Elev		Rod	Elev
			(-3.3)		
H	4.9	-8.2		5.3	-8.6
+10	4.9	-8.2		5.5	-8.8
+20	4.9	-8.2		5.4	-8.7
+30	4.9	-8.2		5.5	-8.8
+40	4.8	-8.1		5.6	-8.9
+50	4.8	-8.2		5.1	-8.4
+60	4.9	-8.2		5.6	-8.9
+70	4.9	-8.2		5.4	-8.7
+80	4.9	-8.2		5.5	-8.8
+90	4.9	-8.2		5.6	-8.9
1	4.8	-8.1		5.5	-8.8
+10	4.8	-8.1		6.1	-9.4
+20	4.8	-8.1		5.9	-9.2
+30	4.8	-8.1		6.2	-9.5
+40	4.9	-8.2		5.9	-9.2
+50	4.8	-8.1		5.3	-8.6
+60	4.8	-8.1		5.5	-8.8
+70	4.8	-8.1		5.3	-8.6
+80	4.8	-8.1		5.4	-8.7
+90	4.9	-8.2		5.4	-8.7
2+0	4.9	-8.2		5.3	-8.6

Elev. in Sewer Reservoir

	Top of Deposit			Bottom of Ja	
Sta	Rod	Elev		Rod	Elev
			-3.3		
0	4.8	-8.1		5.6	-8.9
+10	4.8	-8.1		5.5	-8.8
+20	4.9	-8.2		5.4	-8.7
+30	4.9	-8.2		5.5	-8.8
+40	4.9	-8.2		5.5	-8.8
+50	4.9	-8.2		5.6	-8.9
+60	5.0	-8.3		5.5	-8.8
+70	4.9	-8.2		5.5	-8.8
+80	4.9	-8.2		5.4	-8.7
+90	4.8	-8.1		5.5	-8.8
1	4.8	-8.1		5.3	-8.6
+10	4.8	-8.1		5.0	-8.3
+20	4.8	-8.1		5.2	-8.5
+30	4.8	-8.1		5.5	-8.8
+40	4.8	-8.1		5.2	-8.5
+50	4.8	-8.1		5.6	-8.9
+60	4.9	-8.2		5.5	-8.8
+70	4.8	-8.1		5.4	-8.7
+80	4.9	-8.2		5.5	-8.8
+90	4.8	-8.1		5.5	-8.8
2+0	4.9	-8.2		5.3	-8.6

+ Elev in Sewer Reservoir

	Top of Deposit			Bottom of Tank	
	Rod	Elev.		Rod	Elev.
			-8.3		
J					
+10	5.1	-8.4		5.5	-8.8
+20	4.6	-7.9		5.4	-8.7
+30	5.1	-8.4		5.4	-8.7
+40	5.3	-8.6		5.5	-8.8
+50	5.2	-8.5		5.4	-8.7
+60	5.2	-8.5		5.4	-8.7
+70	5.3	-8.6		5.5	-8.8
+80	-5.3	-8.6		-5.4	-8.7
+90	-5.3	-8.6		5.4	-8.7
1+0	-5.1	-8.4		5.4	-8.7
+10	4.8	-8.1		5.4	-8.7
+20	4.8	-8.1		5.5	-8.8
+30	5.6	-8.3		5.4	-8.7
+40	4.9	-8.2		5.3	-8.6
+50	4.8	-8.1		5.2	-8.5
+60	4.8	-8.1		5.4	-8.7
+70	5.1	-8.4		5.3	-8.6
+80	4.8	-8.1		5.2	-8.5
+90	5.3	-8.6		5.3	-8.6
2+0	5.1	8.4		5.3	-8.6

Elev in Sewer Reservoir

	Top of Before			Bottom of P	
	Rod	Elev		Rod	Elev
			-3.3		
K	5.0	-8.3		5.5	-8.8
+10	5.1	-8.4		5.4	-8.7
+20	4.9	-8.2		5.4	-8.7
+30	5.1	-8.4		5.4	-8.7
+40	5.1	-8.4		5.9	-9.2
+50	5.2	-8.5		5.4	-8.7
+60	5.1	-8.4		5.9	-9.2
+70	5.1	-8.4		5.4	-8.7
+80	4.9	-8.2		5.4	-8.7
+90	5.2	-8.5		5.3	-8.6
1+0	5.1	-8.4		5.3	-8.6
+10	4.9	-8.2		5.5	-8.8
+20	4.9	-8.2		5.4	-8.7
+30	5.0	-8.3		5.4	-8.7
+40	4.8	-8.1		5.4	-8.7
+50	4.8	-8.1		5.5	-8.8
+60	4.8	-8.1		5.4	-8.7
+70	4.7	-8.0		5.3	-8.6
+80	4.8	-8.1		5.3	-8.6
+90	4.8	-8.1		5.0	-8.3
2+0	4.8	-8.1		5.5	-8.8

Elev in Sewer Reservoir

	Top of Deposit			Bottom of Do	
Sta	Rod	Elev		Rod	Elev
			-3.3		
2	4.9	-8.2		5.5	-8.8
+10	4.8	-8.1		5.3	-8.6
+20	5.0	-8.3		5.5	-8.8
+30	5.0	-8.3		5.5	-8.8
+40	5.0	-8.3		5.6	-8.9
+50	4.9	-8.2		5.4	-8.7
+60	4.9	-8.2		5.6	-8.9
+70	5.3	-8.6		-5.3	-8.6
+80	5.1	-8.4		5.3	-8.6
+90	5.1	-8.4		5.4	-8.7
1	5.0	-8.3		5.4	-8.7
+10	4.9	-8.2		5.4	-8.7
+20	5.0	-8.3		5.3	-8.6
+30	4.9	-8.2		5.3	-8.6
+40	4.8	-8.1		5.4	-8.7
+50	4.8	-8.1		5.4	-8.7
+60	4.8	-8.1		5.4	-8.7
+70	4.7	-8.0		5.2	-8.5
+80	4.8	-8.1		6.0	-9.3
+90	4.7	-8.0		5.4	-8.7
2+0	4.8	-8.1		5.4	-8.7

Elev in Semi Reservoir

9.3
4.9
8.2

	Top of Reservoir			Bottom of Tom			Top of Reservoir			Bottom of Tom	
	Rod	Elev		Rod	Elev		Rod	Elev		Rod	Elev
			-3.3						-3.3		
0	4.9	-8.2		5.6	-8.9	0	4.8	-8.1		5.4	-8.7
+10	4.9	-8.2		5.4	-8.7	10	4.9	-8.2		5.3	-8.6
+20	4.9	-8.2		5.5	-8.8	20	4.8	-8.1		5.4	-8.7
+30	5.1	-8.4		5.5	-8.8	30	4.9	-8.2		5.6	-8.9
+40	5.1	-8.4		5.4	-8.7	40	5.0	-8.3		5.4	-8.7
+50	5.0	-8.3		5.4	-8.7	50	4.9	-8.2		5.5	-8.8
+60	4.9	-8.2		5.4	-8.7	60	4.9	-8.2		5.3	-8.6
+70	5.0	-8.3		5.4	-8.7	70	4.9	-8.2		5.3	-8.6
+80	5.0	-8.3		5.4	-8.7	80	5.0	-8.3		5.4	-8.7
+90	4.9	-8.2		5.5	-8.8	90	4.9	-8.2		5.4	-8.7
1+0	4.9	-8.2		5.4	-8.7		4.9	-8.2		5.5	-8.8
+10	4.9	-8.2		5.4	-8.7	10	5.1	-8.4		5.5	-8.8
+20	4.9	-8.2		5.4	-8.7	20	4.9	-8.2		5.4	-8.7
+30	4.9	-8.2		5.3	-8.6	30	5.0	-8.3		5.4	-8.7
+40	4.8	-8.1		5.4	-8.7	40	4.9	-8.2		5.4	-8.7
+50	4.8	-8.1		5.3	-8.6	50	4.9	-8.2		5.4	-8.7
+60	4.8	-8.1		5.3	-8.6	60	4.9	-8.2		5.4	-8.7
+70	4.7	-8.0		5.3	-8.6	70	4.8	-8.1		5.3	-8.6
+80	4.8	-8.1		6.1	-9.1	80	4.8	-8.1		5.9	-9.2
+90	4.6	-7.9		4.7	-8.0	90	4.9	-8.2		4.9	-8.2
2+0	4.7	-8.0		5.5	-8.8	200	4.4	-7.7		4.7	-8.0

Elev in Sewer Reservoir

	Top of Deposit		Bottom of Tank	
	Rod	Elev	Rod	Elev
		(-3.3)		
0	4.8	-8.1	5.3	-8.6
+10	4.9	-8.2	5.4	-8.7
+20	4.9	-8.2	5.4	-8.7
+30	5.0	-8.3	5.5	-8.8
+40	5.0	-8.3	5.6	-8.9
+50	4.9	-8.2	5.5	-8.8
+60	5.0	-8.3	5.5	-8.8
+70	4.9	-8.2	5.4	-8.7
+80	4.9	-8.2	5.7	-9.0
+90	5.0	-8.3	5.4	-8.7
1+0	5.0	-8.3	5.4	-8.7
+10	5.1	-8.4	5.9	-9.2
+20	5.0	-8.3	5.8	-9.1
+30	5.0	-8.3	5.8	-9.1
+40	4.8	-8.1	5.5	-8.8
+50	4.9	-8.2	5.4	-8.7
+60	4.8	-8.1	5.4	-8.7
+70	4.9	-8.2	5.4	-8.7
+80	4.9	-8.2	6.0	-9.3
+90	4.6	-7.9	6.7	10.0
2+0	4.2	-7.5	4.3	7.6

Elev in Sewer Reservoir

	Top of Deposit			Bottom of Tank						
Sta	Rod	Elev		Rod	Elev	+	HI		−	Elev
			(3.4)							
P	5.1	-8.5		5.4	-8.8	2.86	8.42			-6.28
+10	5.1	-8.5		5.5	-8.9					
+20	5.3	-8.7		5.6	-9.0					
+30	5.2	-8.6		5.7	-9.1					
+40	5.2	-8.6		5.7	-9.1					
+50	5.2	-8.6		5.6	-9.0					
+60	5.1	-8.5		5.6	-9.0					
+70	5.1	-8.5		5.6	-9.0					
+80	5.1	-8.5		5.7	-9.1					
+90	5.1	-8.5		6.0	-9.4					
1	5.0	-8.4		5.5	-8.9					
+10	5.0	-8.4		5.5	-8.9					
+20	5.1	-8.5		5.9	-9.3					
+30	5.0	-8.4		5.8	-9.2					
+40	5.0	-8.4		5.6	-9.0					
+50	4.9	-8.3		5.4	-8.8					
+60	4.8	-8.2		5.3	-8.7					
+70	4.8	-8.2		5.2	-8.6					
+80	4.8	-8.2		5.2	-8.6					
+90	4.7	-8.1		6.1	-9.5					
2+0	4.6	-8.0		5.3	-8.7					

Elev. in Sewer Reservoir

	Top of Hydrant			Bottom of D	
	Rod	Elev		Rod	Elev
			(3.4)		
0	5.2	-8.6		5.7	-9.1
+10	5.2	-8.6		5.7	-9.1
+20	5.2	-8.4		5.1	-8.5
+30	5.2	-8.6		5.7	9.1
+40	5.2	-9.6		5.8	-9.2
+50	5.2	-8.6		6.1	-9.5
+60	5.2	-8.6		5.9	-9.3
+70	5.1	-8.5		6.4	-9.8
+80	5.1	-8.5		5.5	-8.9
+90	5.0	-8.4		5.8	-9.2
1+0	5.0	-8.4		5.5	-8.9
+10	5.0	-8.4		5.3	-8.7
+20	5.0	-8.4		5.4	-8.8
+30	5.0	-8.4		5.4	-8.8
+40	4.9	-8.3		5.3	-8.7
+50	4.9	-8.3		5.2	-8.6
+60	4.8	-8.2		5.3	-8.7
+70	4.8	-8.2		5.2	-8.6
+80	4.7	-8.1		5.1	-8.5
+90	4.7	-8.1		5.0	-8.4
2+0	4.7	-8.1		5.2	-8.6

Elev in Sewer Reservoir

	Top of Reservoir		Bottom of Reservoir	
Sta	Rod	Elev	Rod	Elev
		(-3.4)		
R	4.5	-7.9	4.6	
+10	5.2	-8.6	5.7	-9.1
+20	5.3	-8.7	5.4	-8.8
+30	5.2	-8.6	5.4	-8.8
+40	5.2	-8.6	5.5	-8.9
+50	5.1	-8.5	5.6	-9.0
+60	5.1	-8.5	5.6	-9.0
+70	5.1	-8.5	6.0	-9.4
+80	5.1	-8.5	5.6	-9.0
+90	5.1	-8.5	5.5	-8.9
1+0	5.0	-8.4	5.3	-8.7
+10	5.0	-8.4	5.3	-8.7
+20	5.0	-8.4	5.6	-9.0
+30	5.1	-8.5	5.4	-8.8
+40	5.0	-8.4	5.3	-8.7
+50	5.0	-8.4	5.4	-8.8
+60	5.0	-8.4	5.3	-8.7
+70	4.9	-8.3	5.2	-8.6
+80	4.8	-8.2	5.1	-8.5
+90	4.8	-8.2	5.3	-8.7
2+0	4.7	-8.1	5.2	-8.6

Elev in Sewer Reservoir

Sta	Top of Weir Rod	Top of Weir Elev		Bottom of Ja Rod	Bottom of Ja Elev
			-3.4		
8	4.2	-7.6		4.3	-8.7
+10	4.8	-8.2		4.9	-8.3
+20	5.2	-8.6		5.7	-9.1
+30	5.2	-8.6		5.6	-9.0
+40	5.1	-8.5		5.4	-8.8
+50	5.2	-8.6		5.6	-9.0
+60	5.1	-8.5		5.6	-9.0
+70	5.1	-8.5		5.3	-8.7
+80	5.1	-8.5		5.5	-8.9
+90	5.1	-8.5		5.4	-8.8
1	5.1	-8.5		5.4	-8.8
+10	5.1	-8.5		5.3	-8.7
+20	5.1	-8.5		5.3	-8.7
+30	5.0	-8.4		5.3	-8.7
+40	5.0	-8.4		5.1	-8.5
+50	5.0	-8.4		5.2	-8.6
+60	5.0	-8.4		5.2	-8.6
+70	4.9	-8.3		5.2	-8.6
+80	4.8	-8.2		5.2	-8.6
+90	4.7	-8.1		5.3	-8.7
2	4.7	-8.1		5.2	-8.6

Elev in Sewer Reservoir

Top of Deposit				Bottom of To		Rod	Elev	Rod	Elev
Str	Rod	Elev		Rod	Elev				
			(-3.9)						
T									
+10									
+20	Tank -		house						
+30	5.7	-8.1		6.3	-8.7				
+40	4.7	-8.1		4.7	-8.1				
+50	5.2	-8.6		5.7	-9.1				
+60	5.1	-8.5		5.5	-8.9				
+70	5.2	-8.6		5.9	-9.3				
+80	5.1	-8.5		5.4	-8.8				
+90	5.1	-8.5		5.4	-8.8				
1	5.1	-8.5		5.4	-8.8				
+10	5.1	-8.5		5.3	-8.7				
+20	5.1	-8.5		5.4	-8.8				
+30	5.1	-8.5		5.3	-8.7				
+40	5.1	-8.5		5.5	-8.9				
+50	5.0	-8.4		5.1	-8.5				
+60	4.9	-8.3		5.2	-8.6				
+70	4.9	-8.3		5.3	-8.7				
+80	4.8	-8.2		5.2	-8.6				
+90	4.8	-8.2		5.2	-8.6				
2	4.8	-8.2		5.1	-8.5				

5' West to Tank house

5.7	-8.1	6.0	-9-4
5.3	-8.7	5.8	-9.2

At Tank sounding at Tank house 8.2 below bottom

At joists 14.7 cor

At corner toward Shore 12.0

At last cor 11.5

Elev in Sewer Reservoir

	Top of deposit			Bottom of D	
Sta	Rod	Elev		Rod	Elev
			-3.4		
0+					
+10		Tank-house			
+20					
+30	5.1	-8.5		5.9	9.3
+40	4.6	-8.0		4.9	-8.3
+50	5.2	-8.6		5.7	-9.1
+60	5.1	-8.5		5.6	-9.0
+70	6.5	9.9		6.9	-10.3
+80	5.1	-8.5		5.6	-9.3
+90	4.2	-7.7		5.2	-8.6
1	5.0	-8.4		5.5	-8.9
+10	5.0	-8.4		5.4	-8.8
+20	5.0	8.4		5.3	-8.7
+30	4.9	-8.3		5.2	-8.6
+40	4.9	-8.3		5.3	-8.7
+50	4.9	-8.3		5.3	-8.7
+60	4.8	-8.2		5.3	-8.7
+70	4.8	-8.2		5.3	-8.7
+80	4.7	-8.1		5.4	8.8
+90	4.8	-8.2		5.2	-8.6
2+0	4.7	-8.1		5.2	-8.6

X Section of 32nd St

see X see Book Index

West		Cent.		East		
Rod	Elev	Rod	Elev	Rod	Elev	St
						BM
			27.4			BM
						#
11.4	16.8	9.8	17.6	12.0	15.4	1+75
2.0	25.4	1.0	26.4	2.3	25.1	2+0
			34.6			
8.0	26.6	6.8	27.8	7.4	27.2	+25
7.8	26.8	6.7	27.9	6.9	27.7	+50
7.4	27.2	6.6	28.0	6.6	28.0	+75
7.1	27.5	6.4	28.2	6.4	28.2	3
6.5	28.1	6.0	28.6	6.3	28.3	+40
5.4	29.2	5.8	28.8	7.5	27.1	0
4.9	29.7	5.8	28.8	7.4	26.7	+25
4.5	30.1	5.5	29.1	7.3	27.3	+50
4.1	30.5	4.9	29.7	6.5	28.1	+75
4.8	29.8	4.8	29.8	6.0	28.6	1+0
4.8	29.8	4.5	30.1	5.8	28.8	+2
3.1	31.5	4.1	30.5	5.2	29.4	+5
2.4	31.7	3.3	31.3	4.1	30.3	+7
2.0	32.6	2.7	31.9	3.5	31.1	2+

June 17 1889 Hamlin Book
Orton Level
Williams Rod
Hensley "

+	HI	−	Elev.
BM. 1.87	47.88		46.01
Altar # 0.21	37.56	10.53	37.35
S Bay St. W.		8.42	29.14
1.13	27.36	11.33	26.23
S Line 8.34	34.57	1.13	26.23
of P.L. 1161			
S Line Bay St			
Bay St			
N Line Bay St BM.		5.94	29.13

x Sections 32n St

June 17 1889

Hamlin Book
Orton, Sevel
Williams Rod
Hensley

West		Center		East		St	+	HO	−	Elev
		34.6								
Rod	Elev	Rod	Elev	Rod	Elev			34.57		
1.6	33.0	2.2	32.4	2.4	32.2	2+2				
0.9	33.7	1.7	32.9	2.0	32.6	+5				
0.2	34.4	0.9	33.7	1.2	33.4	+7				
		(45.6)					11.85	45.60	0.82	33.75
10.6	35.0	11.3	34.3	11.4	34.2	3.	Line Colton Ave			
9.2	36.4	10.0	35.6	10.5	35.1	+40	Colton			
8.3	37.3	9.1	36.5	9.7	35.9	0	N Line Colton Ave BM		8.25	37.35
7.4	38.2	8.3	37.3	8.5	37.1	+25				
5.7	39.9	7.0	38.6	7.4	38.2	+50				
4.0	41.6	5.7	39.9	6.8	38.8	+75				
				6.4	39.2	+93 ~~+81~~	Intersection SW Line O Ave			
3.0	42.6	4.7	40.9	6.3	39.3	1				
2.3	43.3	4.0	41.6	7.1	38.5	+25				
2.1	43.5					+48	Intersection SW Line O Ave.			
2.5	43.1	5.4	40.2	6.5	39.1	+50				
3.9	41.7	5.6	40.0	6.7	38.9	+75				
				8.1	37.5	+97.	Intersection NE Line O Ave			
4.5	41.1	6.5	39.1	8.3	37.3	2+0				

X sections 32nd St

West		Center		East		St
Rod	Elev	Rod	Elev	Rod	Elev	
			45.6			
6.6	39.0	7.8	37.8	9.7	35.4	2+25
7.3	38.3					+47.1
7.3	38.3	9.8	35.8	12.1	33.5	+5
8.0	37.6	10.9	34.7	13.1	32.5	+75
9.0	36.6	11.9	33.7	14.1	31.5	3+0
			34.6			#
1.8	32.8	6.8	27.8	11.1	23.5	+40
9.8	24.8	12.8	21.8	14.8	19.8	0
10.6	24.0	11.7	22.9	12.4	22.2	+25
6.8	27.8	7.9	26.7	9.4	25.2	+50
3.2	31.4	4.5	30.1	6.4	28.2	+75
0.0	34.6	1.6	33.0	3.2	31.4	1+0
			41.6			#
4.4	37.2	6.5	35.1	7.9	33.7	+25
2.3	39.3	5.4	36.2	7.1	34.5	+50
1.4	40.2	5.7	35.9	9.2	32.4	+75
0.6	41.0	4.7	32.9	12.5	29.1	2+0
1.7	39.9	10.5	31.1	12.3	29.3	+25
6.2	35.4	10.4	30.7	8.0	33.0	+50

June 17 1888

+	Ht	−	Elev
	45.60		
Intersection NE Line S Ave			
S Line of Topeka Ave			
0.81	34.57	11.84	33.76
Topeka			
N Line Topeka Ave			
8.93	41.62	1.84	32.69

X Sections 32nd St

June 17 1888

Hamlin Book
Orton Level
Williams Rod
Hensley

West		Centre		East		
Rod	Elev	Rod	Elev	Rod	Elev	
			(41.0)			
7.0	34.6	8.5	33.1	3.8	37.8	2+75
7.5	34.1	5.1	36.5	1.5	40.1	3+0
			(47.4)			
						#
10.6	36.8	7.4	40.0	4.9	42.5	+40
8.6	38.8	6.2	41.2	3.4	44.0	0

41.62

S line Boston Ave

8.08 47.86 2.37 39.28

Boston Ave

N line Boston Ave

Bth. Topeka & 32nd 1.38 45.98

46.01

NE Sections of Oliver Ave.

~~S.W.~~ Side		Center		SW ~~N.E.~~ Side			+	HI	−	Elev
Rod	Elev	Rod	Elev	Rod	Elev	Sta	0.37	21.07		20.70
			(0.8)			#	1.03	10.83	11.27	9.80
						#	0.78	0.83	10.78	0.05
4.8	− 4.0	4.5	− 3.7	4.8	− 4.0	6	SE Line 20th St			
4.5	− 3.7	4.4	− 3.6	4.6	− 3.8	+30				
4.6	− 3.8	4.4	− 3.6	4.8	− 4.0	0	NW Line 20th St			
4.8	− 4.0	5.0	− 4.2	4.4	− 3.6	+50				
4.0	− 3.2	4.6	− 3.8	4.3	− 3.5	1				
5.6	− 4.8	5.0	− 4.2	4.0	− 3.2	+50				
6.1	− 5.3	5.8	− 5.0	5.2	− 4.4	2				
6.2	− 5.4	6.0	− 5.2	5.9	− 5.1	+50				
6.2	− 5.4	6.1	− 5.3	5.9	− 5.1	3				
6.1	− 5.3	5.9	− 5.1	5.7	− 4.9	+50				
6.3	− 5.5	5.9	− 5.1	5.4	− 4.6	4				
6.3	− 5.5	6.1	− 5.3	5.6	− 4.8	+50				
6.3	− 5.5	6.4	− 5.6	5.9	− 5.1	5				
6.5	− 5.7	6.4	− 5.6	5.8	− 5.0	+50				
6.6	− 5.8	6.2	− 5.4	5.4	− 4.6	6 + 00	SE Line 19th St.			
6.6	− 5.8	6.0	− 5.2	4.7	− 3.9	+30				
6.6	− 5.8	6.2	− 5.4	4.6	− 3.8	0	NW Line 19th St			
6.6	− 5.8	6.0	− 5.2	3.9	− 3.1	+50				

X Section Olivier Ave

SW Side		Center		NE Side			+	HI	−	Elev
			(0.8)							
Rod	Elev	Rod	Elev	Rod	Elev			0.83		
6.5	-5.7	5.3	-4.5	3.3	-2.5	1				
6.2	-5.4	4.5	-3.7	4.2	-3.4	+50	+50			
6.1	-5.3	4.3	-3.5	4.2	-3.4	2				
5.5	-4.7	3.0	-2.2	4.2	-3.4	+50	+50			
5.0	-4.2	4.5	-3.7	4.3	-3.5	3				
4.4	-3.6	4.4	-3.6	4.7	-3.9	+50	+50			
			(4.6)			#	5.17	4.61	1.39	-0.56
9.5	-4.9	9.7	-5.1	9.2	-4.6	4				
8.0	-3.4	8.2	-3.6	7.9	-3.3	+50	50			
8.1	-3.5	8.0	-3.4	8.0	-3.4	5	1	Intersection NE Line Olivier Ave with S Line H.A. 1		
				6.2	-1.6	+36	+50			
4.2	0.4	5.4	-0.8	5.2	-0.6	+50	+64	+50		
		6.2	(8.6) 2.4			+79	Intersection centerline with S Line H.A			
1.9	2.7	26.5 in 5.8.	2.8	Elev S Line H.A.		6	S Line H.A. 0		H.A.	
0.8	3.8					+33	33 Intersection SW Line with S Line		3.78	0.83
							7.78	8.63		0.85
				8.0	-3.1	4+75	Intersection of E Line 11th St with NE of Olivier			
				8.0	-3.4	45	Last point to S Line of H.A. on E Line of 11th St			

X Section 4th St

Brook 4th & Beech S 95.5
N 97.3
Cedar " S 109.5
N 111.3

West Curb		Center		East Curb			+	HI	-	Elev
		(92.4)								
Rod	Elev	Rod	Elev	Rod	Elev.		8.92	92.36		83.46
11.8	80.6	10.9	81.5	10.6	81.8	0	N Line Ash St			
9.6	82.8	8.9	83.5	9.1	82.4	+50				
7.3	85.1	6.8	85.6	6.8	85.6	1				
5.3	87.1	4.6	87.8	4.5	87.9	+50				
3.4	89.0	2.5	89.9	2.5	89.9	2				
1.1	91.3	0.4	92.0	0.3	92.1	+50				
		(103.5)								
						#	11.71	103.51	0.56	91.80
10.0	93.5	9.7	93.8	9.8	93.7	3	S line Beech		2.33	94.18
8.2	94.2	7.8	95.7	7.1	P line 96.4	+40				
6.6	96.9	6.3	97.2	6.1	97.4	0				
3.6	99.9	4.1	99.4	3.8	99.7	+50				
1.8	101.7	2.2	101.3	1.8	101.7	1				
		(114.0)								
						#	12.03	114.10	1.44	102.07
11.0	103.1	11.2	102.9	11.3	102.8	+50				
9.5	104.6	9.7	104.4	9.9	104.2	2				
8.1	106.0	8.0	106.1	7.5	106.6	+50				
6.4	107.7	6.4	107.7	6.2	107.9	3	S of Cedar			
4.4	109.7	4.9	109.2	3.7	110.4	+40	Cedar St			
3.8	110.3	3.7	110.4	3.4	110.7	0	B.M. N of Cedar St		1.71	122.39

X Section of 4th St

West Carb		Center		East Carb		St	+	HI	-	Elev
Rod	Elev	Rod	Elev	Rod	Elev					
		(114.1)						114.10		
2.0	112.1	2.3	111.8	1.9	112.2	+5	11.39	125.31	0.18	113.92
0.3	113.8	0.5	113.6	0.3	113.8	1				
		(125.3)				#				
9.6	115.7	10.0	115.1	9.4	115.7	+50				
8.1	117.2	8.2	117.1	7.7	117.6	2				
6.4	118.7	6.8	118.5	6.2	119.1	+50				
4.9	120.4	5.2	120.1	4.5	120.8	3	S Line of Hate	B m	3.85	121.46
4.1	121.2	3.9	121.4	2.4	122.9	+40	Hate St			
3.0	122.3	2.6	122.7	2.3	123.0	0	N Line Hole			

X Section 4th St

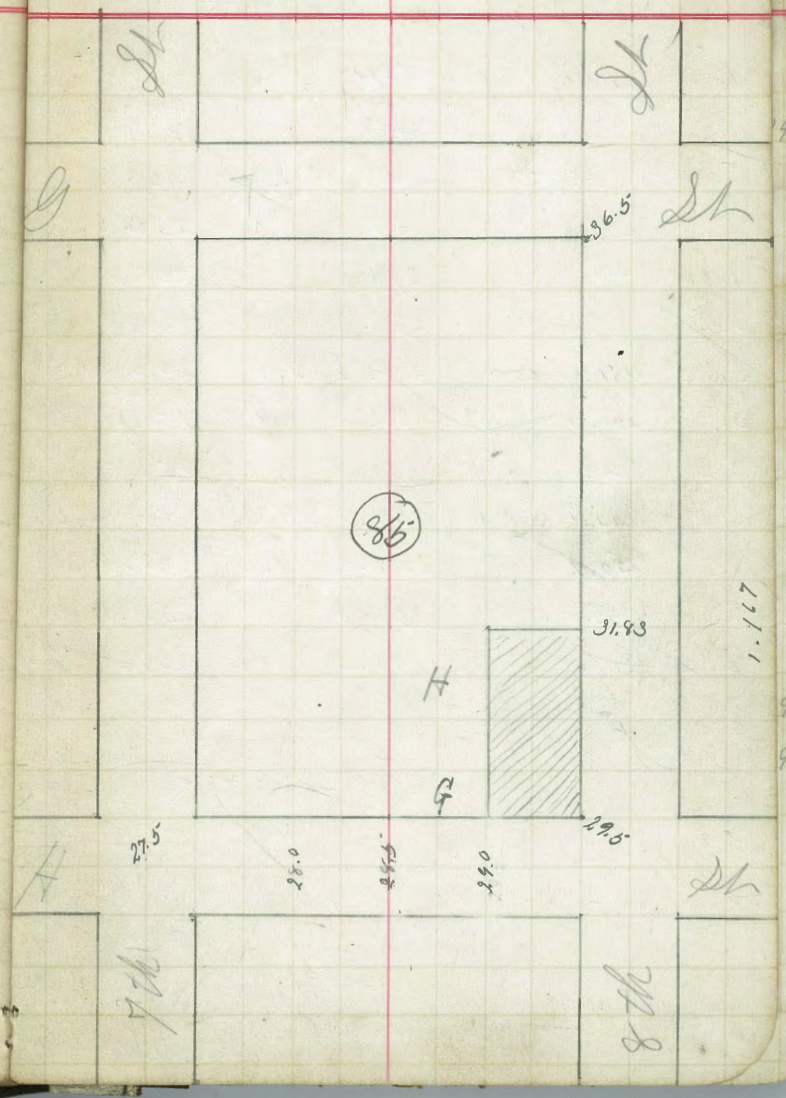
West Curb		Center		East Curb		St
Rod	Elev	Rod	Elev	Rod	Elev	

Ordered June 19 1889

Curb grades Lot G Blk 85 H.I. Grand Army Lot.

B M	+	H I	−	Grade	Rod
27.615	5.51	33.125	7th & H		
				29.0	4.125
				29.50	3.625
				31.83	1.295
31.015			2.11	8th & H	

Completed June 20 1889
Hamlin Book
Orton Sevel
Williams Rod
Hensley



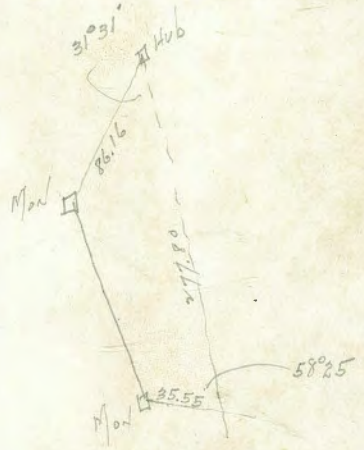
X Section Maple St 5th St to Park Boulevard.

June 24. 1889

Hamlin
Astor
William
Hensley.

North		Center		South			+	HO	-	Elev
Rod	Elev Curb	Rod	Elev (261.9)	Rod	Elev Curb	Sta				
						BM	3.45	261.89		258.44
2.9	259.0	3.0	258.9	3.2	258.7	0	East Line of 5th St			
2.6	259.3	2.8	259.1	3.3	258.6	+50				
2.9	259.0	3.0	258.9	3.3	258.6	1				
3.5	258.4	2.9	259.0	3.0	258.9	+50				
3.3	258.6	3.3	258.6	3.9	258.0	+88	Park Line			
1 5.0	P. Line 256.9	6.3	255.6	7.9	P. Line 254.0	2				
8.7	253.2	9.1	252.8	9.1	252.8	+50				
6.8	255.1	7.4	254.5	8.3	253.6	3				
6.7	255.2	7.8	254.1	8.2	253.7	+50				
6.3	255.6	5.8	256.1	6.8	255.1	4				
4.8	257.1	5.4	256.5	4.5	257.4	+50	Park Boulevard			
						#	7.43	266.39	2.93	258.96
						BM	Nub. & 5th		2.46	263.93

Sta	+	HD	⊖	Elev	



Return to City Engineers Office
City Hall, San Diego, Cal.

Return to City Engineers Office
City Hall, San Diego, Cal.

VERSE TABLE FOR TRANSIT BOOK,

From 1° to 90° for a distance of 100.

EGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees
t.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
		100.00	0.44	100.00	0.87	99.99	1.31	89
8	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
4	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
6	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
6	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
2	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
5	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
3	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
7	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
6	19.08	98.08	19.51	97.99	19 94	97.90	20.36	78
1	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
4	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
03	24.19	96.93	24.62	96.81	25.04	96.70	25.46	75
59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
3	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
53	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
97	34.20	93.83	34.61	93.67	35.02	93.51	35.43	69
36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
35	40.67	91 18	41.07	91.00	41.47	90.81	41.87	65
62	42.26	90.45	42.66	90 26	43.05	90.07	43 44	64
88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
46	48.48	87.25	48.86	87.04	49 24	86.82	49.62	60
60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
90	55.92	82 66	56.28	82.41	56.64	82.16	57.00	55
92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
31	66.91	74.02	67.24	73.73	67.56	73.43	67 88	47
14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
71	70.71							
ep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		

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