Misc. Surveys.

9

TRANSIT

F.B.8

8

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

MICROFILMED
DEC 2 1964

8

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

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B. Ms. — —

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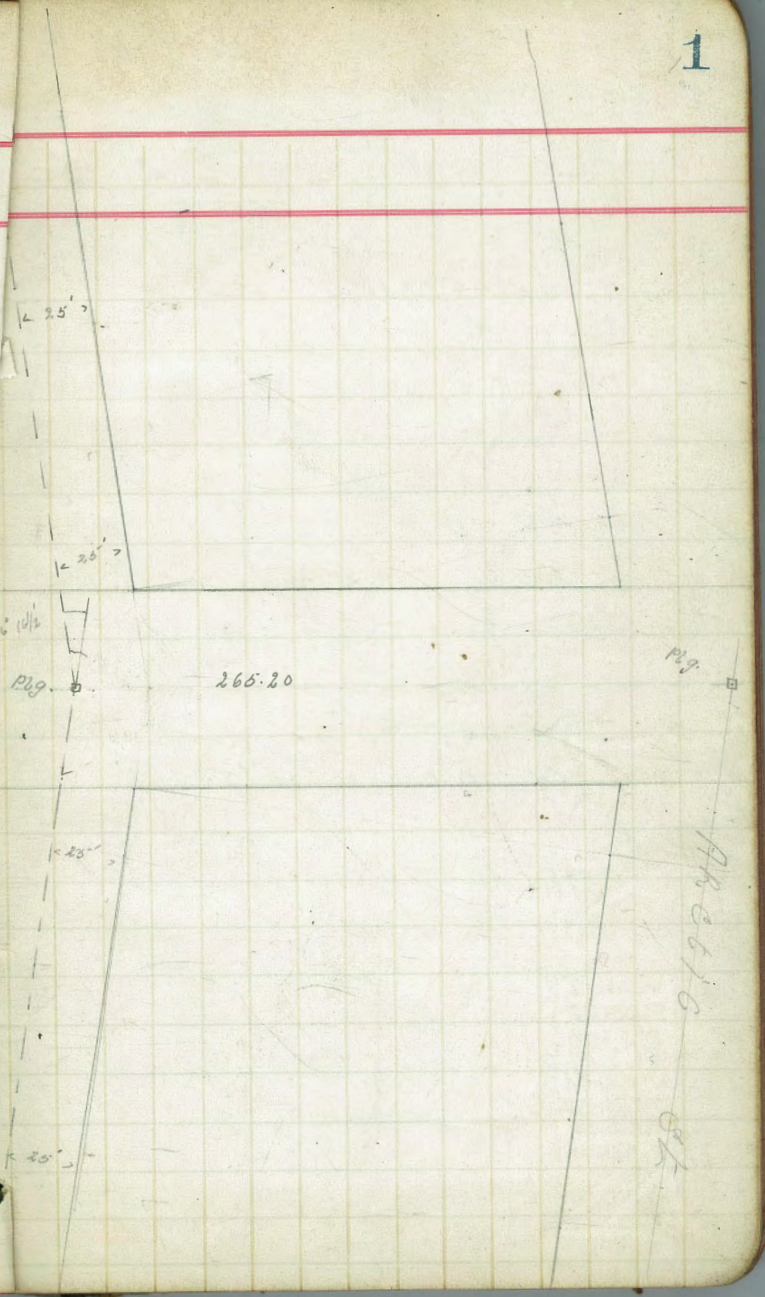

25'
25'
16' 16½
Plg.
265.20
Plg.
25'
25'

	+	H.I.	−	Elev	B.m		
	8.020	76.771			68.751	D + 10.020	
			1.910		74.86	" 11.930	76.852
	7.875	84.727			76.852	B + 10.020	
			0.243		84.484	" 11.930	84.486
	1.585	86.071			84.486	11.930 + B	
	0.212	80.493	5.790		80.281	C	80.281
	3.210	76.908	6.795	73.698			
			2.040		74.868	D	76.852
	0.046	99.793			99.747	25.059 + B	
	1.775	90.098	11.470	88.323			
			4.200		85.898	C	89.956
	0.072	89.780	10.390	89.708			
			6.405		73.375	D	75.375

Oct 1st

+	H.I	−	Elev	B.M			
11.064	89.884			78.82 A	+ 6th		
9.991	99.568	0.307	89.577				
		1.685		97.88 old B.M.			
		3.340		96.22	7th Spk ground 2" fr cor NW		~~97.84~~
10.585	109.928	0.225	99.343				
		6.870		103.05	8		
1.375	99.918	11.385	98.543				103.055
2.405	90.518	11.805	88.113				
		4.515		86.00 old B.M.			
		7.050		83.46	9th SE Nozzle Hydrant		85.992
1.475	80.083	11.910	78.608				
		7.115		72.96	10th		72.975
11.955	91.848	0.190	79.893				
		1.420		90.42	11th		
11.965	103.293	0.520	91.328				90.438
5.495	108.599	0.189	103.104				
		3.295		105.30	12		105.314
4.025	103.439	9.185	99.414				
		3.585		99.75 B	+ 12		99.747

+	H.I	−	Elev	B.M			
11.500	107.728			96.227	+	A	
11.840	119.238	0.330	107.398				
11.910	130.903	0.245	118.993				
11.450	142.241	0.112	130.791				
		8.310		133.93	.	Ash	133.899
11.910	153.836	0.315	141.926				
8.365	161.591	0.610	153.226				
		4.410		157.18	.	Beech	157.160
		1.570		160.02	.	Cedar S.W. Nozzle Hyd.t	
2.925	163.681	0.835	160.756				
		4.190		159.49		Date	160.94
0.210	152.626	11.265	152.416				159.468
		10.260		142.36	+	−	142.34?

Oct 1st

+	H.I	−	Elev	B.m.
10.255	152.598			142.343 Date + 6th
11.730	164.123	0.205	152.393	
		4.650		159.47 + 7th
3.705	167.558	0.270	163.853	
		1.925		165.6 - 8 S.W. Tol cor Plug
4.775	160.683	11.650	155.908	
		1.535		159.1 - 9
0.780	151.465	9.995	150.688	
		3.045		148.4 Cedar - 9th
0.465	140.193	11.740	139.728	
1.230	130.243	11.180	129.013	
5.435	127.418	8.260		121.9 - 10th
0.675	116.295	11.795	115.623	
		4.750		111 Beech - old B.M.
		4.950		111-3 - NW Spk ground under bank
0.151	104.801	11.645	104.650	
0.295	93.706	11.390	93.411	
2.613	84.499	11.820	81.886	
		6.790		77.758
4.190	77.509	11.180	73.319	
		4.527		72.95

159.468
159.127
148.409
122.985
111.535
77.908
77.475

+	H. I	−	Elev	B.M.		
11.205	88.914			77.70	Ash + 10th	
11.950	100.396	0.468	88.446			
11.810	111.976	0.230	100.166			
		4.395		107.5[illegible]	9th	107.570
11.535	123.136	0.375	111.601			
11.655	134.539	0.252	122.884			
		3.825		130.7[illegible]	8th	130.699
6.800	141.099	0.240	134.299			
		7.180		133.9[illegible]	7th	
0.258	129.377	11.980	129.119			
0.213	117.690	11.900	117.477			
0.253	106.108	11.835	105.855			
		5.970		100.13[illegible]	6	100.135

Corr. for aneroid — .114

Ther	Baron	Ther	Bar:
72°	30.12		
80°	29.6		
79	29.7		
82°	29.9		

G. C. Bradt
H. T. Christian
Maj. Chase
J. D. Schuyler
J. H. Patton
V. M. Shaw

Oct. 12/89 —

Reconnaisance Survey for Dam Site El. Cajon —

At 3rd & D. Sts Elev. 40.00
Spring Valley
El. Cajon Heights Station
Old Mission Dam

30.12 = 28915.3
29.9 = 28731.8
1835
1.1
1835
1835
20185
40
241

72
82
154

910
710
280

289

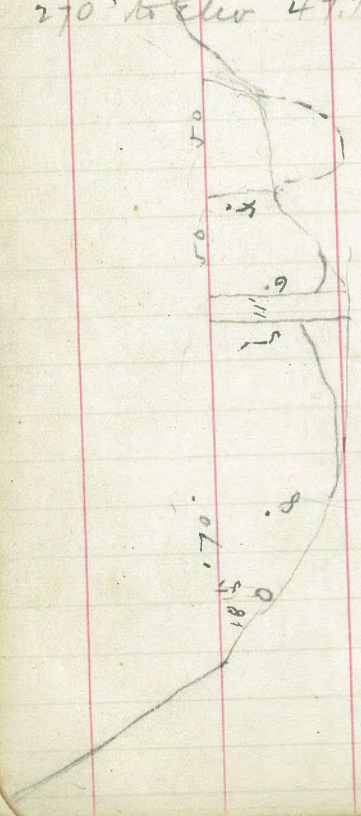
30.12 = 28915.3
29.6 = 28458.6
4567
4567
50237
28915
28547.1
358

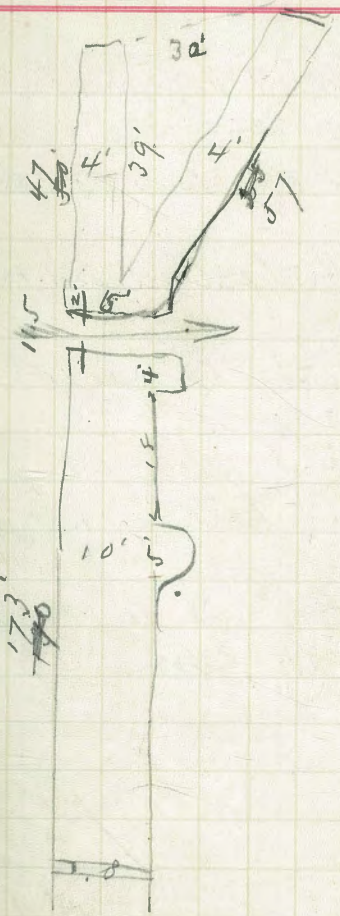
28915
28280

$\frac{539}{477}$

Elev. of Point on North of Dam
47.7 above North End of Dam
Dist to Dam 485 East of Cajon V

270' to Elev 47.7 above D End of





Aug 30 1889

Hamlin
Acton
Williams
Hennsley

Preliminary

Center line of Horton Ave

Angle at Olive & Horton 96° 8¼'
Right.
Nutmeg st the line is 1.21' East
of old center
Maple st the line is 1.48' East
of old line.
Laurel St the line is 1.02 East
of old line
North of Olive ∠ 96° 8¼'
Palm St the line is 1.60' East
of old line
Spruce St the line is 1.96 East
Redwood St 2.0 East

Measured from Calif & Wpas
to Arctic & Wpas 262.5 no Cen
To India & Wpas 275. 1.15 Eold center
To Columbia & Wpas 275. 1.38 " "
To State & Wpas 275 1.79 " "
Found 2 old scarf stakes on Ea
side of Stall dist 37.4 from old
center 35 from new pt.
To Wmin St 275, dist 2.28 " "
Found old corners at West side
Wmin 37.8 from old center 40 f
To Houston & Wpas intr of new
of Houston 274.94
3.18 East of point at Houston & W H.A.

Levels from Cowles Ito Old Dam Site

Shaw } Level & Rod.
Spencer }

Oct 14/89.

{ 1 double Team + man from "Brophy"

	B S	H.I	F.S	Elev.
	0.0	364.0		
			12.0	352.0
	2.43	354.43		
			11.1	343.33
	3.4	346.73		
			7.68	339.05
	4.65	343.70		
			7.1	336.6
	3.1	339.7		
			7.3	332.4
	3.6	336.0		
			5.5	330.5
	6.5	337.0		
			6.4	330.6
	0.6	331.2		
			5.8	325.4
	2.4	327.8		
T.P.			3.7	324.1
			4.8	323.0
				313.5

364 Elev at Cowles - top of rail.

Temp. 66 } Water. Temp Air 46°
" 67
" 66

Water surface in Lagoon at H.P. ~~Kuhn~~ McKoon's

	B. S.	H. I.	F. S.	Elev
T.P				324.1
	5.0	329.1		
			8.6	320.5
	1.0	321.5		
			6.6	314.9
	6.3	321.2		
			8.9	312.3
	3.0	315.3		
			8.1	307.2
	6.1	313.3		
			4.0	309.3
	12.0	321.3		
			2.5	318.8
	5.4	324.2		
			3.6	320.6
	7.0	327.6	6	
			10.6	317.0
	3.1	320.1		
			12.4	307.7
	5.9	313.6		
			11.6	302.0

B.S.	H.I.	F.S.	Elev.	
			302.0	
5.5	307.5			
		11.7	295.8	
0.1	295.9			
		10.5	285.4	
0.6	286.0			
		6.4	279.6	Top of Dam
		12.7	273.3	Bot of Dam
		6.3	279.7	B.M. ☐ 20 cobble set in Top of Dam

Cross Section of K St 19th to 21st

North Rod	North Elev	Center Rod	Center Elev	South Rod	Sta	+	HI	−	Elev
		(78.4)							
P					0	7.31	78.43		71.12
10.7	67.7	10.5	67.9	11.2	6+10	East Line of 19th St			
7.3	71.1	6.9	71.5	7.6	7+50				
3.6	75.8	3.0	75.4	3.6	7+40				
		(89.4)							
11.0	78.8	10.1	79.3	10.6	7+50				
7.5	81.9	6.5	82.9	7.1	8+20				
5.0	84.4	4.5	84.9	5.0	8+40	20th Street			
4.5	84.9	3.9	85.5	4.7	8+48	M		3.45	85.58
2.5	86.9	1.8	87.6	3.2	8+60				
		(97.0)							
7.8	89.2	7.6	89.4	8.6	8+80				
5.2	91.8	5.4	91.6	6.4	9+05				
2.8	94.2	3.3	93.7	4.7	9+20	West of 21st St			
						M.		2.47	94.49

Cross Section of 20th St N off St 100 feet

West Rod	West Elev	Centre Rod	Centre Elev	East Rod	East Elev	
			(89.4) See preceding 1			
7.5	81.9	5.0	84.4	4.5	84	N line of K St
6.1	83.3	4.4	85.0	3.6	85.50	
4.9	84.5	3.2	86.2	3.0	86.40	

Cross Section of 20th St 100 S K Street

(89.4)

7.1	82.3	5.0	84.4	4.7	84	S line of K St
8.3	81.1	6.6	82.8	6.1	83.50	
9.7	79.7	8.1	81.3	7.7	81.90	

Grades for Gutter - Pauly - Gasslock

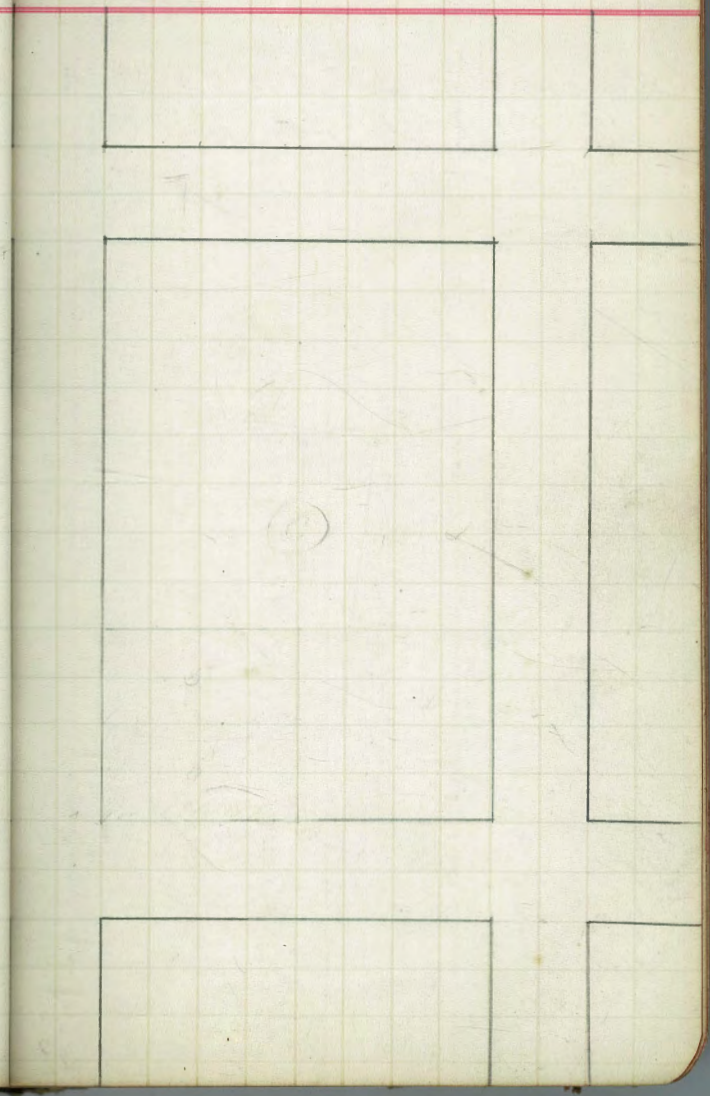
Shaw
Spencer

Nov. 14. 89.

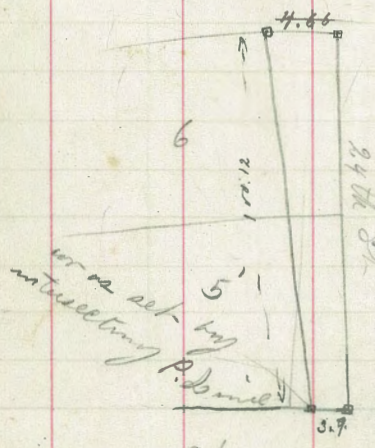
5.32	43.73			38.4	
		6.68	37.05	NE	
		3.37	40.36	15	

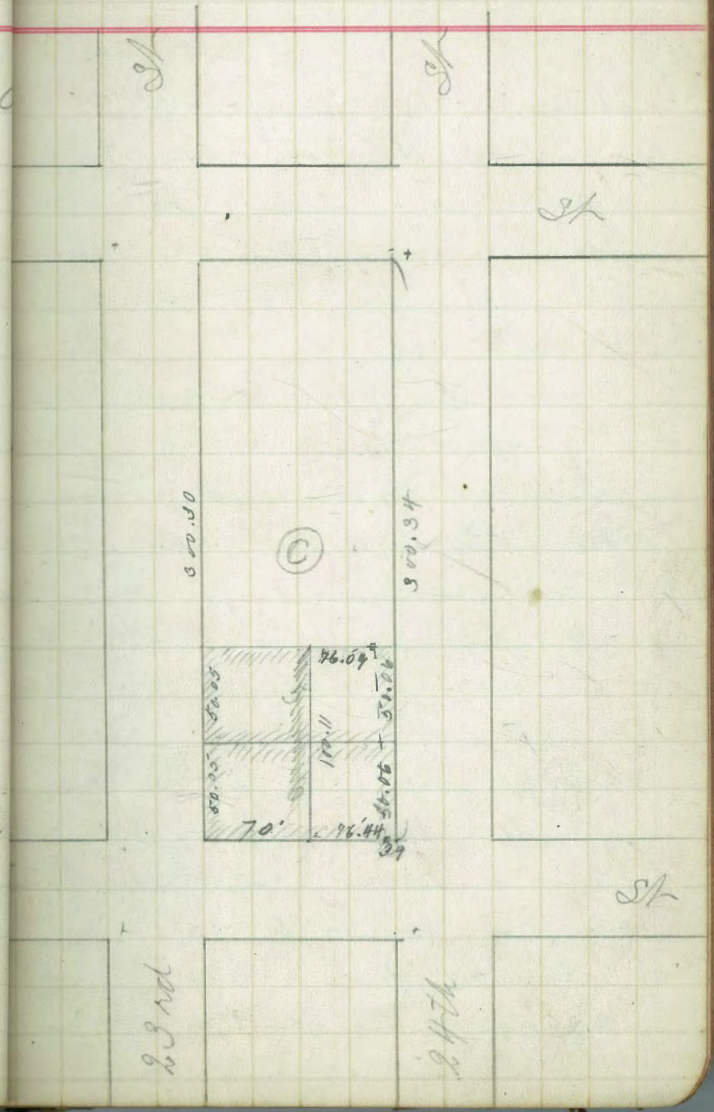
E St

43.7
37.0
8 07
40.37



Survey of Lots 5 & 6 Blk C
in C, F, B & M Addn





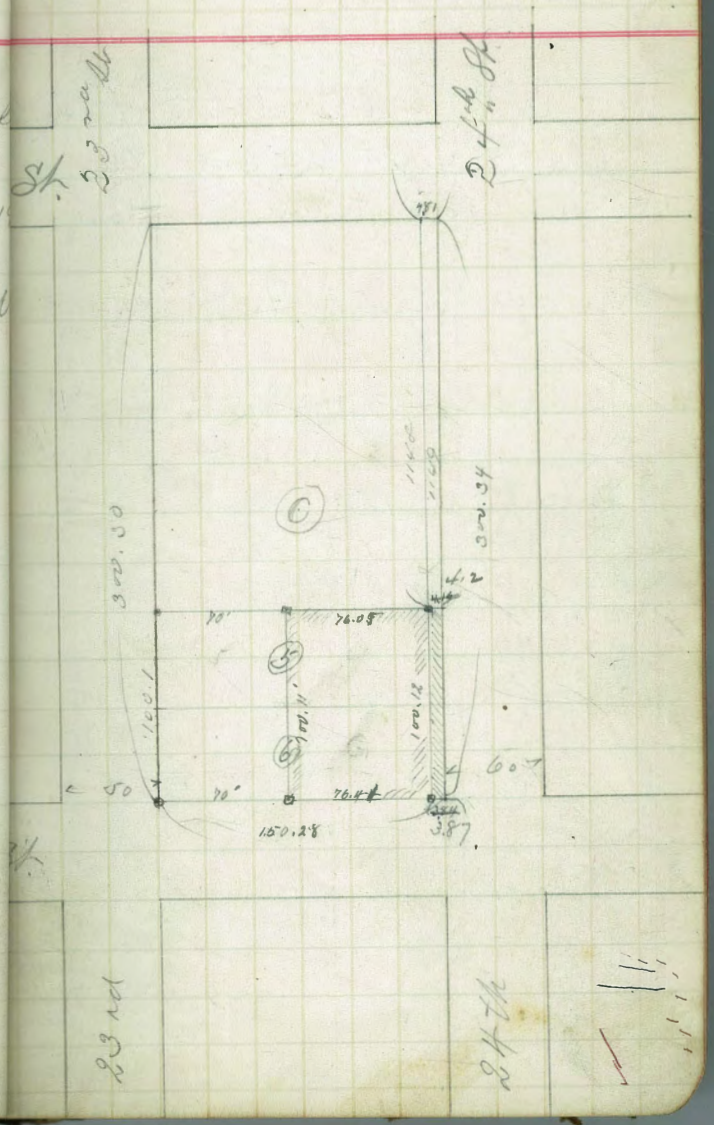
27° 2'

72° 53'

Set up a 7' point SW cor 24th + G.
Backsight to N.E. cor Pueblo Lot 11
Sherman's add - dist 185.4 to cor
To SW cor of 24th & F St mon 3.8
From SW mon on 24th & F to mon on
24th & E 379.94 ✓
From SW cor 7' plg on 24th & E
SW 7' on 24th H St 379.80 ✓
From SW 7' plg 24th & H St to SW
plg 24th & C St. 380.20 ✓
From SW cor 7' plg on 24th & C 3148
SW 7' point on 24th & B St 380.34
From SW 7' point on 24th B to SW 7'
on 24th & A St 381.38 ✓
From last point 150 North
Angle 62° 13' Left 87.45 = 1 on Park line
Set up on Sta 187 + 25.2 sight to Point 150' N of A St
Angle to Park line 27° 21
At 123' N of Point at A St
12.25 Right to cor P.L. 1148 & 11

Found old quarter cor of
Set up on S.W. of H & 24th B.S.
to 24th & E Angle 72° 53' Left
dist 9.83'
Set up at mon. on SW cor of
24th & G St. B.S. to 24th & F.
reversed & measured 185.31' to a
point opposite SE cor of Pueblo Lot
Angle 90° to Right dist 6.59
West to cor, said cor being .41'
put in 24th St

Plat of E ½ of Lots 5 & 6 Bl
C, C T G & W Add.
for survey see page 1
for Mr Hughes - J.W



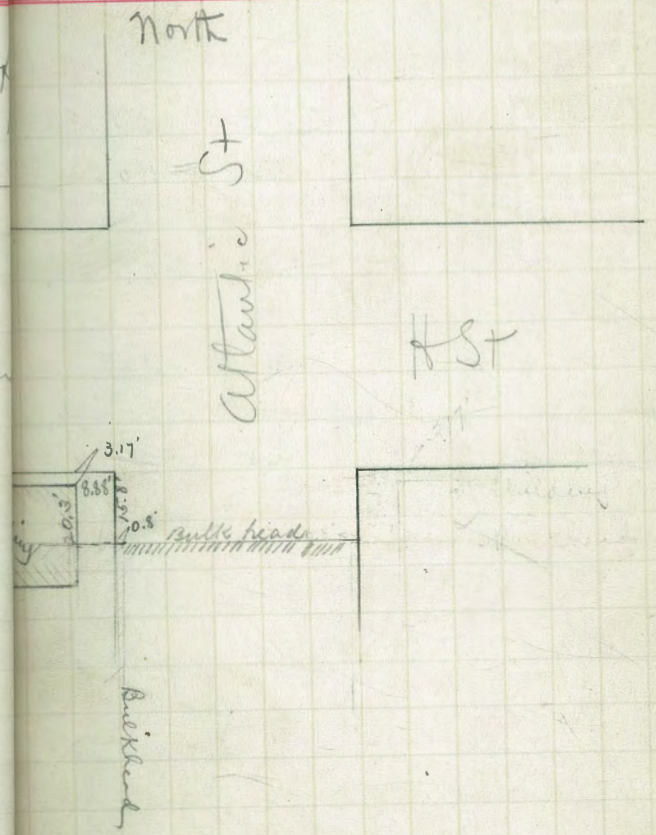
Spencer
Carroll
Hudson

Location of Bulkhead 7th & Atlantic 7th

Set up on E. line Atlantic 7' N of S. line N. Sight on Calif. Angle 131° 9' 18.5' to Corner of House

Size of building 40.75' x 20.3'

Building 3.17' South of Corner
8.88' West "
Bulkhead 15.8' South "
0.8' East "



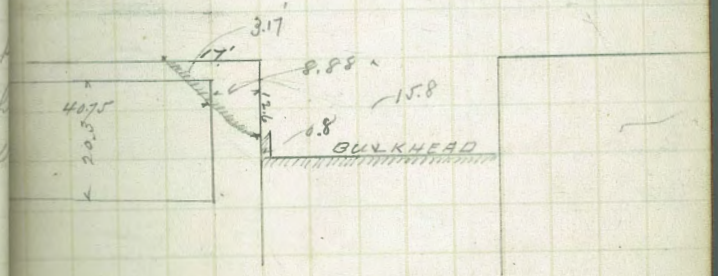
Dec. 12/89
Shaw Level 0.87
3.9
Hubon Rod - .48

Sketch for Cal. - southern R.R.

BM - 0.96 spk cor Fence
N.E. Cal. + H St.

	0.87	0.48			~~-0.[illegible] S.E. cor Atl. + H St spk in tel.~~
			3.8	-3.3	~~Bulk head~~
			5.3	-4.82	~~Building SE~~
			6.6	-6.12	SW
					-BM SE. cor of Atl. + H Sts
	7.85	7.46			
			10.86	-3.40	NW of lot.
			14.1		ft west on North line of lot
T.P.			9.5	-2.04	
	1.37	-0.67			
			2.1	2.77	Cor of Lot
			3.5	4.17	or bulk head
			2.9	3.57	building

Hieght of Int = - 0.67 I set Target
at 3.18 and noted int on lot b
East and North at Mean High W
Mean high water = - 3.85

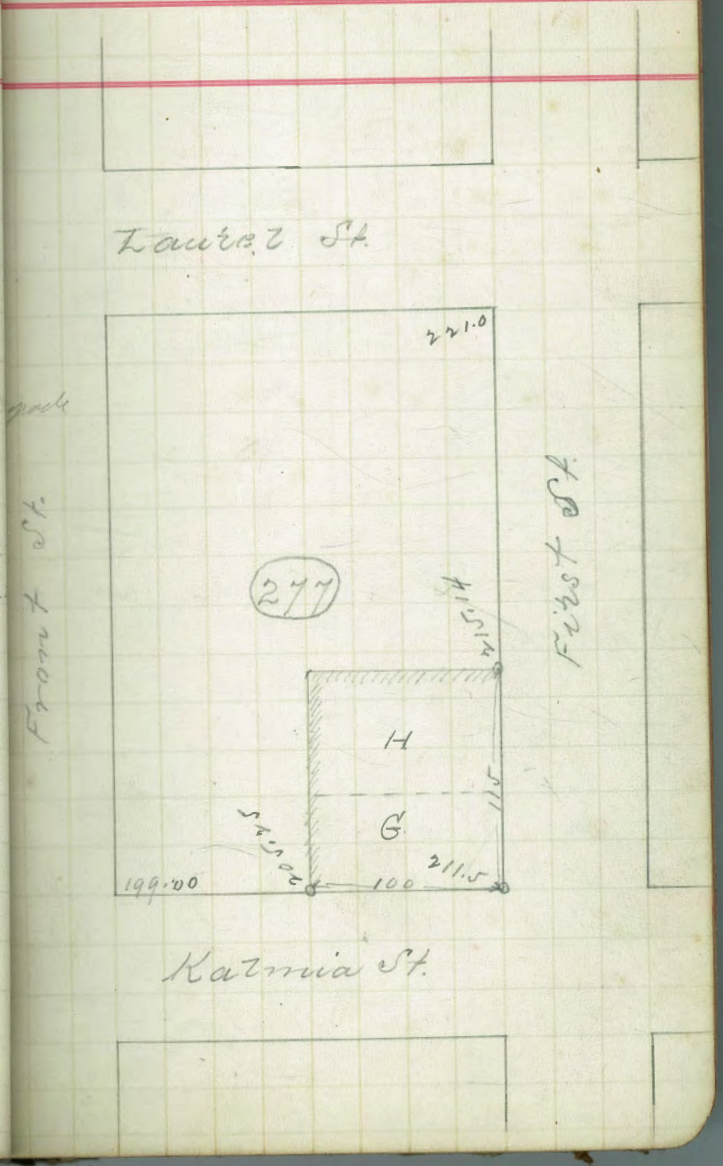


		N W	- gutter from 5th St. Sch. House
Fifth	+ B	N E	- Cobble d° " "
"	A	S. W.	Cobble gutter on Fifth
"	Ash	S. W	curb only " " "
"	Beech	N E	Cem.t gutter on Fifth - to property line on 5th
"	Cedar	N W	Curb to Property line - none
"	Date	S W	Cem.t Cobble gutter on Fifth - to property line of 5th

Total length curbing = 14591.47
Exceptions " 994.83
Lin ft " 13596.64

Total length Guttering 14921.34
Exceptions " 755.27
Lin ft " 14166.07
Sq. ft " 70830.35

BM	+	HI	Grade	Rod	
3 Grades for J. C. Long Lots G. H. + S 15' of I Blk 277 H. H.					
212.26	3.29	215.55			
			211.75	3.80	
			205.50	10.05	chg grade
			215.39	0.16	
#	10.04	225.43	0.16	215.39	
BM. Spike in Post			2.45	222.58	22



Meas. between Park + W side of W. Park Boulevard to determine Areas

Dec 19. 1889.

Spencer
Orton
Williams
Hensley

On Ivy	360' to W side (Center furro			1.97 a.	Exclusive of Roadways
" Juniper	332'	Do	Do	1.87 a.	
" Kalmia	331'	Do	Do	2.01 a.	
" Laurel	372'	Do	Do	1.86 a.	
" Maple	286.5'	Do	Do	1.39 a.	
" Nutmeg	236.5'	Do	Do	1.10 a.	
" Olive	202.5'	Do	Do	0.70 a.	
— Palm				10.90 a.	

Set up at Int Cen Palm + W Park - B S
Cen Palm + 5th - S W Cor. Palm + Park = 0

Sta	Ang	
0	R 90°	40' S of Instrument.
1	R 25° 05'	
2	R 41° 15'	
3	R 51° 53'	
4	R 59° 04'	
4 + 54.5	R 62° 20'	

Total Area Exclusive of Roadw
10.9 Acres.

BM - S.E. Laurel + 5th spk in Tel 249.664
" S.E. Maple " " " " " 258.44

	SW	NW	SE	NE	
Laurel	249.0	250.0	250.0	251.0	
Maple	257.5	258.0	258.5	259.0	
					24
	6.14	255.80			
			8.11	247.69	
	4.11	251.80			
			7.14	244.66	BM 4
			10.30	241.5	Fr Sat

7.
3.5

258.5
251.0
7.5
3.75
251
254.75

Survey of Lots G. + H Blk 189
+ Lots 9 + S½ of 10 Carruthers
for Mrs Lucy Coulter by or
of M. Kewagt.

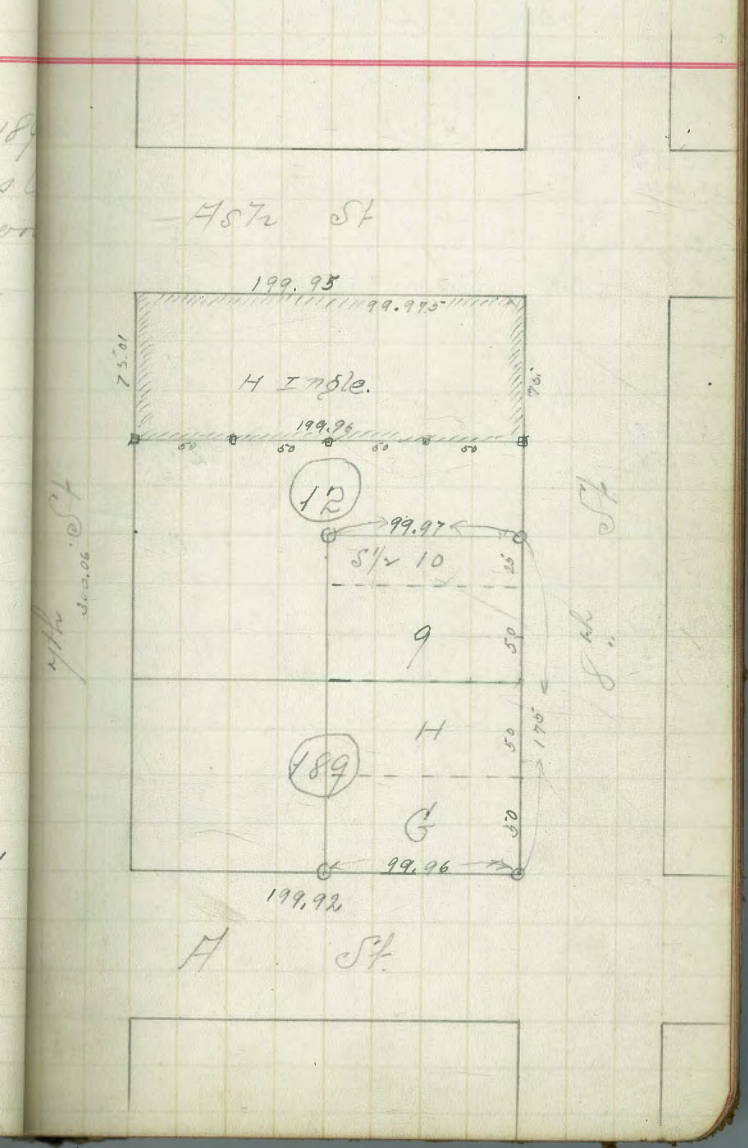
4 Points

Completed Dec 21 1889

Hamlin { Acton
Williams
Hemsley

Back line for Ingle
Mar. 3 1891

Hamlin { Acton
Hemsley } chain
Williams Stake



Cross Section of Hawthorn ~~Cut & Fill Stakes~~

to 100 ft west of Albatross						+	# 9	-	Elev
North	C	Cent	C	South	S				
		(136.71)				2.28	136.71		134.43
133.27 3.44	4.7	5.1	5.8	6.34	2				
132.0 4.7	5.7	8.0	9.4	128.6 8.1	+ +				
5.9	6.8	9.3	11.1	126.8 9.9	1 +				
(129.68)		(128.23)				.43	128.23	11.31	125.40
128.58 1.10	1.5	2.8	4.8	124.28 3.95	1 +				
						2.78	129.68	1.33	126.90
4.4	5.6	7.0	8.0	120.6 7.6	1				
(126.53)									
122.92 3.61	7.2	9.3	10.0	117.14 11.09	1 +				
						#5.55	126.53	8.70	120.98
						#9.07	134.99	0.61	125.92
						Bow & Albatross		0.32	134.67

X. section 100' West of Hoss St on Hawthorne

North	C	Center	C	South	S	+	H O	−	Elev
		(134.75)							
						0.32	134.75		134.43
133.27	132.2	131.7	131.0	130.4					
1.8	2.6	3.1	3.8	4.4	2	Albatrose St			
132.0	131.1	128.8	127.3	128.6					
2.8	3.7	6.0	7.5	6.2	1+				
130.73	129.89	127.4	125.6	126.8					
3.92	4.9	7.4	9.2	8.0	+7				
128.58	126.5	125.2	123.1	124.04					
6.17	8.3	9.6	11.7	10.71	+5				
		(127.67)							
						7.01	127.67	8.09	126.66
125.1	126.8	122.6	121.4	121.9					
2.6	3.9	5.1	6.3	5.8	+				
122.68	122.1	120.2	119.4	118.88					
4.99	5.6	7.5	8.8	9.34	1				
						7.65	134.62	1.70	125.97
								0.19	134.43

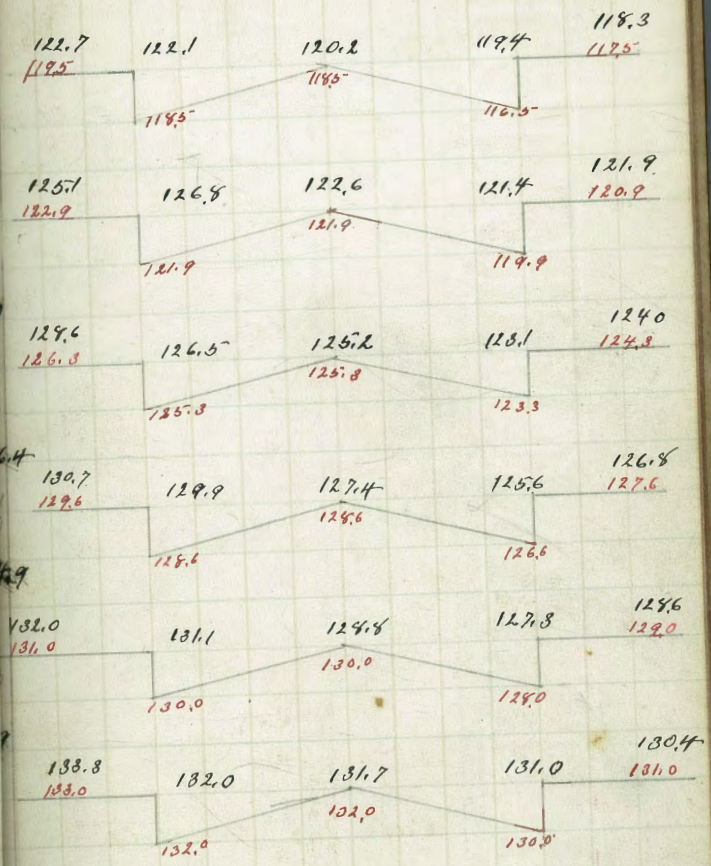
Quantities on Hawthorn

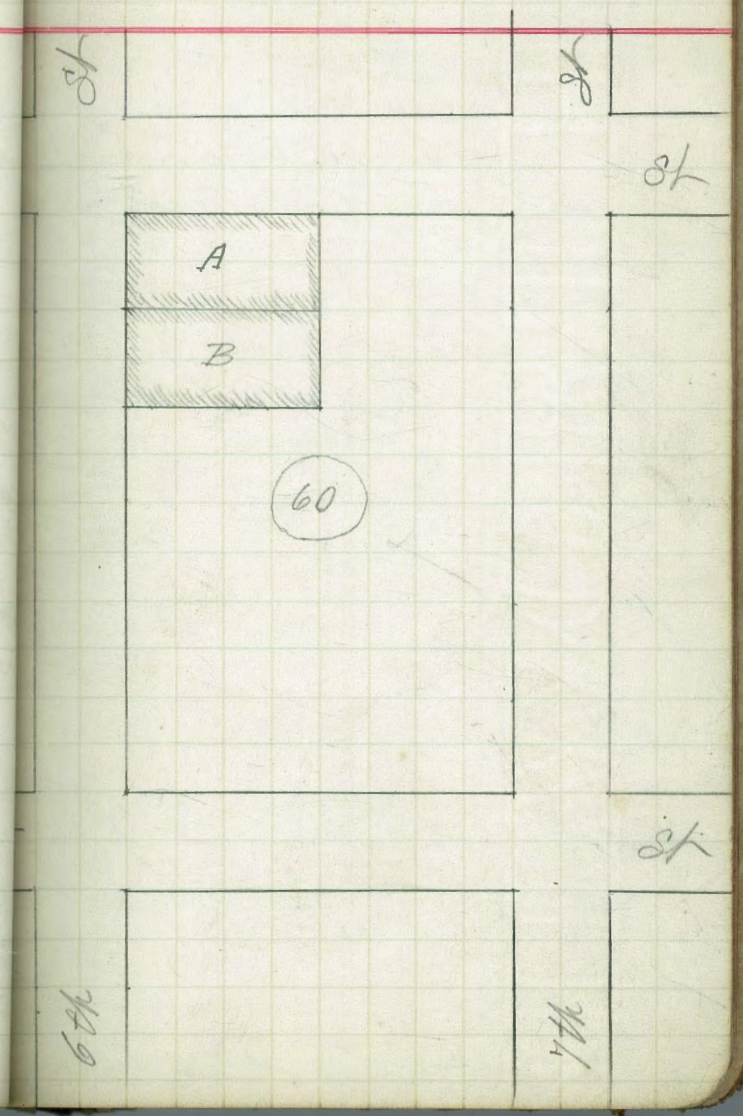
100' West of Albatross

	North S Walk C	North S Walk F	North ℄ Cent C	North ℄ Cent F	South ℄ Cent C	South ℄ Cent F	South S Walk C	South S Walk F	C
1	40.6		68.9		59.4		18.9		188. 154.
+25	42.7		~~72.8~~ 76.4		24.6		10.5		128.6 84.2
+50	17.5		14.4			3.9		19.5 ~~18.5~~	39.9 30.0
+75	~~9.8~~ 10.5	~~5.5~~	8.5	7.2		~~18.6~~ 14.3		19.6	19.0 17.2
+90	7.7		6.2 7.4	7.8		24.7		14.7	15.4 17.8
2+0	0.6 7.7	5.0	2.4	3.9	10.9	0.9 ~~7.9~~		4.2	20.1

281.8
79.4

Cut 268 cu yds
Fill 63 cu yds.

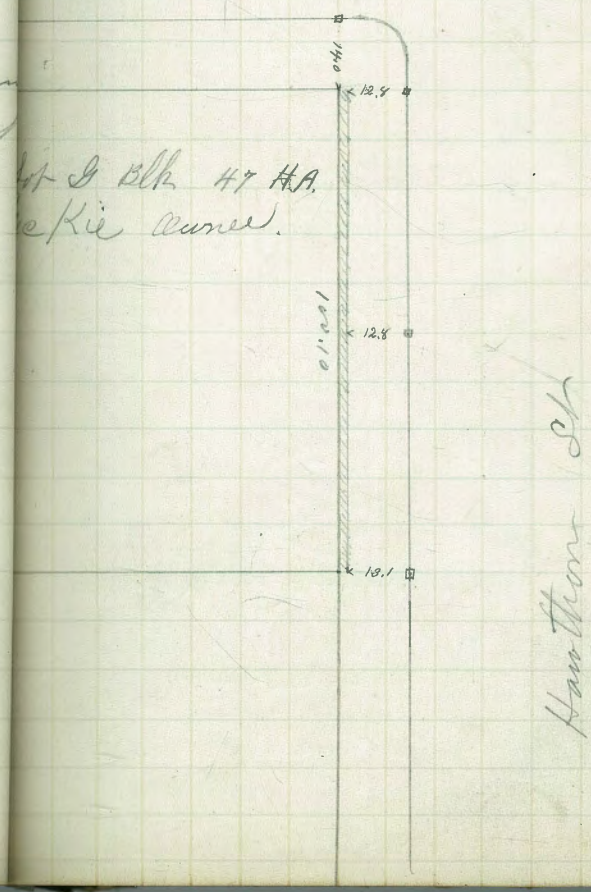



St
St
St
A
B
60
St
744
744

Jan 23 1890
Hamlin { Oxton
Williams
Hemsley.

35

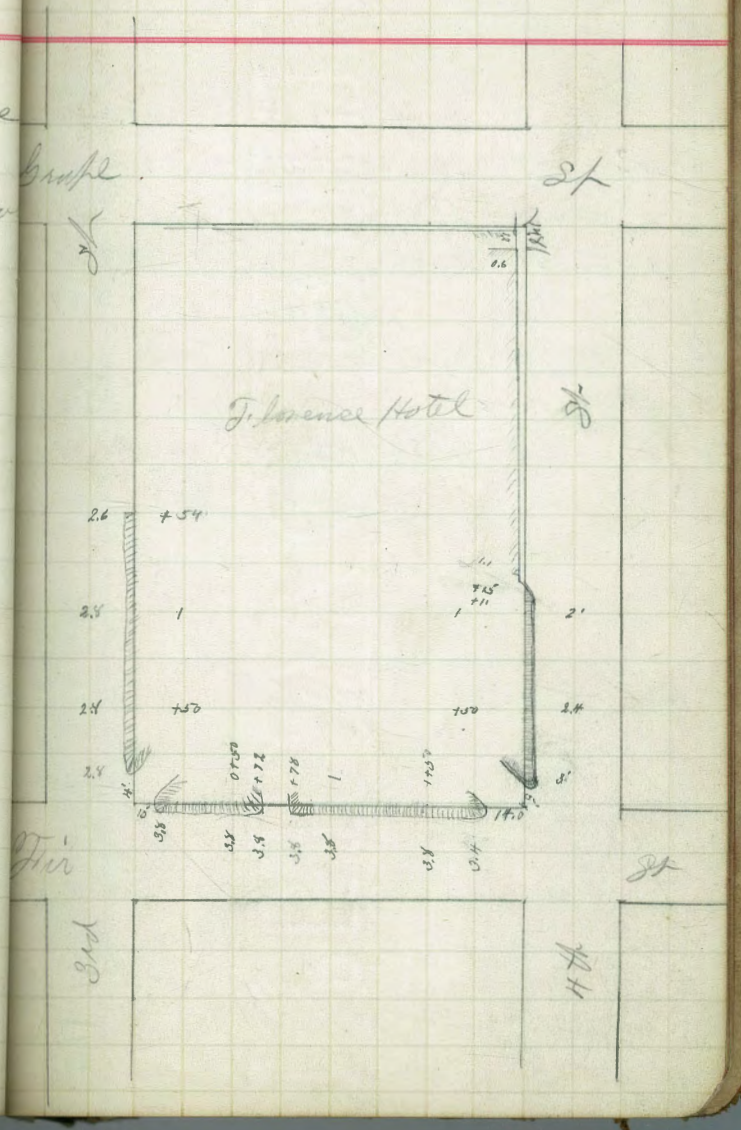
Plat showing bank along
McKie's lot on Hawthorn St Albatross St
at N.W. cor of Albatross & H
thorn.
Set curb liner as shown
plat, & checked grades set
when St was graded. O.K.



Lot G Blk 47 H.A.
McKie owner.

Jan 23 1890 Hamlin { Astor Williams Hemaley

Sketch showing wall of Florence Hotel Fir St. bet 3rd & 4th Figures in ft show distance wall is in the street.



Paving Grades for E & W
between 4th & 5th Sts

Sta	North Curb	North Gutter	Centre	South Gutter	South Curb	
0	37.0	36.34	36.17	35.33	36.	East side 4th St
+25	37.475	36.81	36.63	35.78	36.	
+50	37.95	37.29	37.09	36.23	36.	
+75	38.425	37.76	37.56	36.68	37.	
1	38.90	38.24	38.02	37.13	37.	
+25	39.375	38.71	38.48	37.58	38.	
+50	39.85	39.19	38.95	38.03	38.	
+75	40.325	39.66	39.41	38.48	39.	
2	40.80	40.14	39.87	38.93	39.	West side 5th St

Sub-grade to be 0.83' lower than
above grades

Paving Grades on E St bet 4th & 5th St

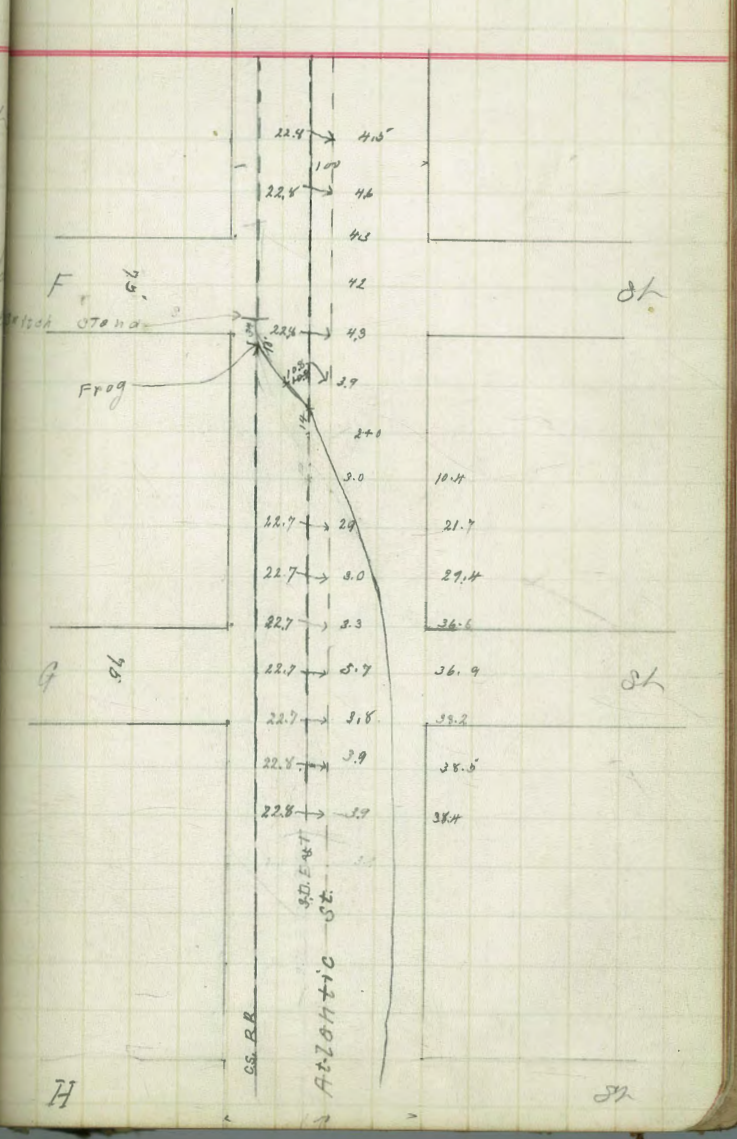
North Center S

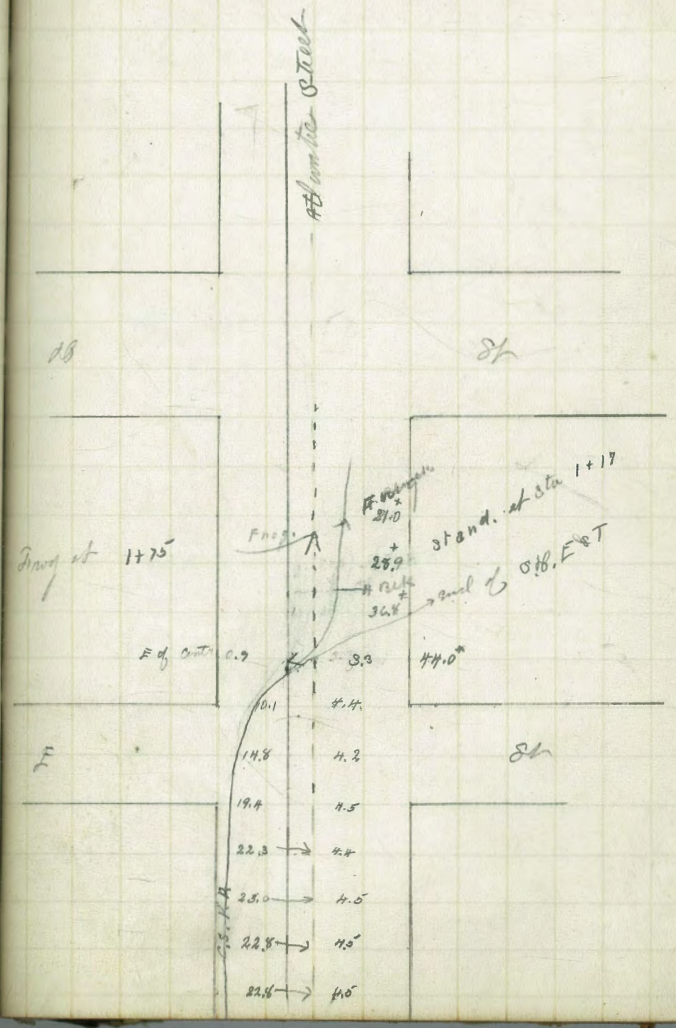
Sta	Grade	Rod	Grade	Rod	Grade	Rod	+	HO	−	Elev.
		(43.78)					5.37	43.78		38.41
0	36.34	7.44 Hum .12	-2" ~~36.17~~ 36.00	7.98	36.[illegible]	7.78	East of 4th St			
+25	36.81	6.97 Hum 0.10	-1 ~~36.63~~ 36.55	7.23	36.4[illegible]	7.33		8.45 .67 7.78		
+50	37.29	6.49 Hum 0.5	37.09	6.69	36.9[illegible] 36.2[illegible]	6.88 7.55		6.88 7.55 .69		43.7 39.6 4.18
+75	37.76	6.02	37.56	.47 6.22	36.6[illegible]	7.10				
1	38.24	5.54	38.02	.46 5.76	37.1[illegible]	6.65				
+25	38.71	5.06	38.48	0.46 5.30	37.5[illegible]	6.20				
+50	39.19	4.59	38.95	.47 4.83	38.0[illegible]	5.75				
+75	39.66	4.12	39.41	.46 4.37	38.4[illegible]	5.30				
2	40.14	3.64	39.87	0.46 3.91	38.9[illegible]	4.85 West Line of 5th St				
B.M.				2.14	41.[illegible]	5th & E St				

Sketch showing location of S. Boston & Terminal R.R on Atlantic Street

Figures E of center of Atlantic St show dist S.B.E & T Road is west of center of Atlantic St

Figures to West of center of Atlantic St show how far C.S.R.R track is west of center of Atlantic St Measurements are to center of tracks.



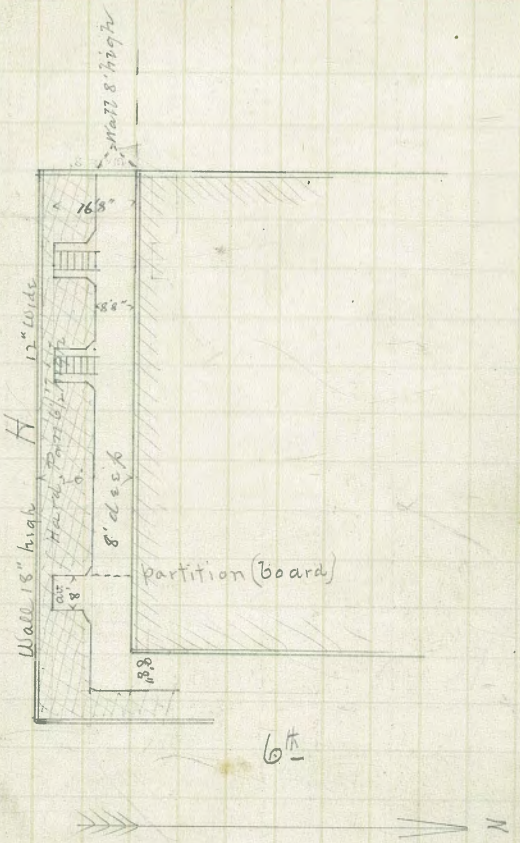

Atlantic Street
Frog at 1+75
Frog
stand. at sta 1+17
end of S.H.E.S.T
E of Centr 0.9
3.3
44.0
10.1
4.4
14.8
4.2
19.4
4.5
22.3
4.4
23.0
4.5
22.8
4.5
22.8
4.5

Jany 27. 1890

Sketch of Cellar + Wall at
Masonic Building 6th + H Sts.

Spencer
Hudson
Cloth Tape

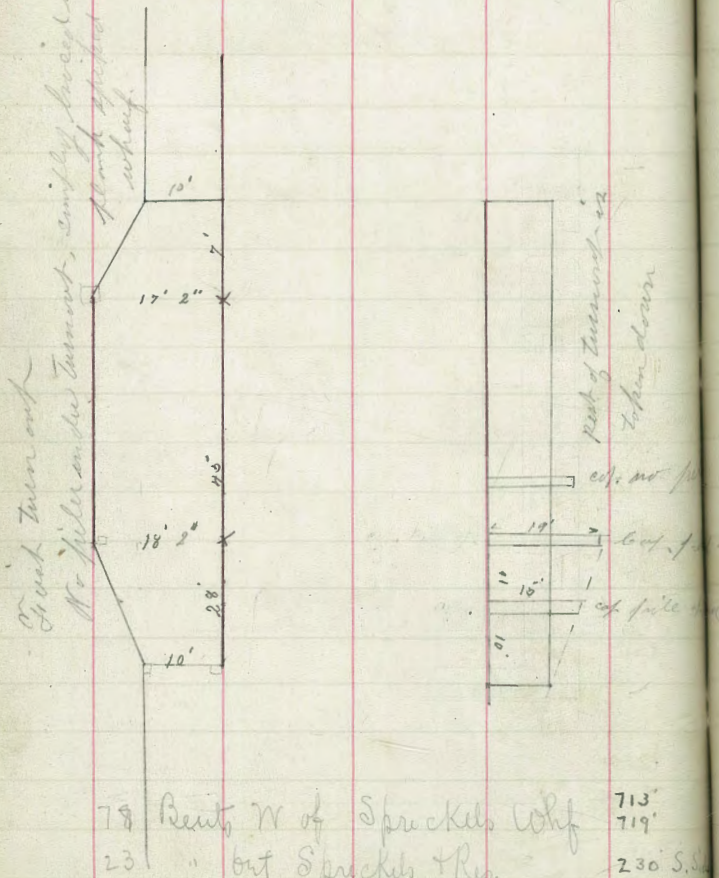
7 x 14 - 8' on Centers
String 3 x 12 - av-18" 10



Sketch showing Bent of City Wharf.

Jan 29 1890

Hamilton Hemsley J.



78 Bents W of Speckels Wharf 713'
23 " Out Speckels Res. 719'
230 S.S.

1st 6 Bents are good

Width Speckels 88

1037

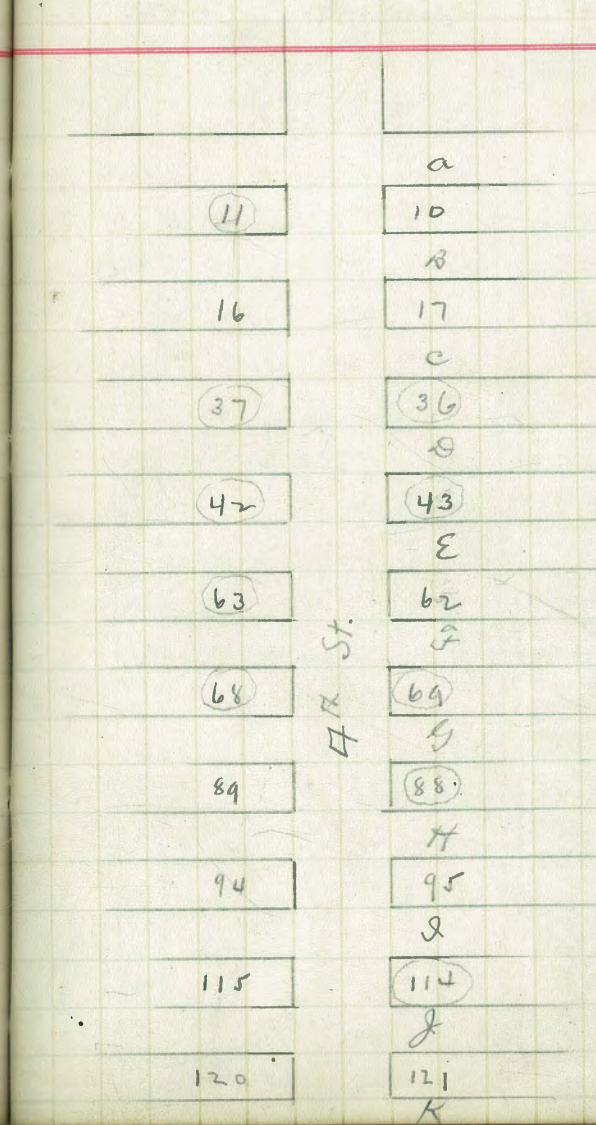
Elevs on curb 100' W of 5th St on S side of Ash

Sta	+	HI	−	Elev	Grade	
BM	6.20	83.87		77.67		5th & Ash
2			6.84	76.99	77.00	on concrete curb } West line of 5th St
2			6.70	77.17	77.00	on Plank curb }
+00			6.03	77.84	77.50	
1			5.26	78.61	78.00	
BM			4.74	79.13	79.13	4th & Ash Sts

Hamlin
Williams

Sidewalks, Curbs + Gutters 4th St — Feby 7. 90. G.H.D.

Lot	Block	S.W.	Curb	Gutter
F	114	Cement	Cement	–
E + F.	88	Cement	Cement	Cobble poor around Cor.
E + F	69	do	do	–
L	68	do	do	–
G	63	do around Cor	do around Cor	–
J	63	–	Granite	–
K	63	–	Cement	–
D-E-F-C	43	Cement	Cement	Cement
S½ B	43	do	do	Granite
N½ a	43	do	do	do
S½ a-N½ B	43	–	Granite	do
N35 H S- and S5 J	42	Cement	Cement	–
G H I J K L	37	Cement	Cement	–
ABCDEF	36	do	do	–
H	11	do	do	–
a	62	–	around Cor. Granite	–



4th St.

	a
11	10
	B
16	17
	C
37	36
	D
42	43
	E
63	62
	F
68	69
	G
89	88
	H
94	95
	I
115	114
	J
120	121
	K

Elevations on Sidewalks on 4th St Feby 7. 90. Spencer Level Hubon Rod

+	HI	-	El-	Rod	El	Lot	Blk	Location	Above	below
8.10	14.28		BM 6.18							
				8.86	5.42	F	114	E 4th		.18
				9.03	5.25			Cen Curve		.35
3.50	14.30		BM 10.80	8.84	5.44			N. J		.16
8.43	25.48		BM 17.05	8.65	16.83	F	88	E 4th	.33	
				8.65	16.83			Cen Curve	.33	
				8.55	16.93			N. H	.43	
1.02	25.49		B.M. 24.47	7.63	17.85			100' North	~~.48~~	.48
				2.49	23.00	F	69	E 4th		.00
				2.54	22.95			Cen		.05
				2.52	22.97			N-G		.03
10.99	35.98	0.50	24.99	0.45	25.04			100' N.	.04	
4.93	35.98		BM 31.05	7.92	28.06	L	68	50' S	.06	
				7.06	28.92			S. F		.08
				7.20	28.78			Cen		.22
				7.16	28.82			W. 4th		.18
				6.51	29.47		63	W 4th		.03
				6.50	29.48			Cen		.02
				6.43	29.55			N. E	.05	

El. Sidewalks Cont'd.

+	HI	-	El	Rod	El	+	Blk	location	Above	below
	35.98			3.22	32.76	J	63	S	.01	
				2.17	33.81			N		.02
				2.33	33.65	K	63	S		.18
				1.33	34.65			N		.27
8.35	43.67	0.66	35.32	6.53	37.16	J	43	E 4th	.16	
5.28	43.69		BM 38.41	6.72	36.97			Cen		.03
				6.64	37.05			N. E	.05	.05
				1.60	42.09	BN½	43	S	.07	
				0.58	43.11	AS½		N		.03
				0.82	42.87	N½		S 25'		.27
				-0.07	43.76			E 4th	.06	
				0.01	43.68			Cen		.02
				0.30	43.39			S. D.		.31
				5.07	38.62	Sun Block		S.	.36	
				3.05	40.64			S. Plaza		.06
				2.98	40.71			Cen	.01	
				3.05	40.64			W 4th		.06

Elevations on Curb at McKee's
Lot G Blk 251 Ha

Feby 10 Spencer Hensley

+	H.I.	−	El	Rod	El	
11.69	114.97	0.96	B.M. 103.28			
11.55	125.56		114.01	6.04	119.52	100' W of Albatross
11.47	136.36	0.67	124.89	3.34	133.02	E line of "
				3.34	133.02	N " " Hawthorn
		1.89	Hyd. SE alb. 134.47			

Finishing stakes for Osborn at M.T. school hous

Hamlin Oct 5-1888
Habon

Sta	+	HI	Grade	mod	Elev
BM	8.96	86.40			77.44
A			76.7	9.7	
C			78.3	8.1	
E			80.5	5.9	
G			82.3	4.1	
I			84.3	2.1	
K			86.3	0.1	
1+10 A			75.7	10.7	
C			77.4	9.0	
E			79.1	7.3	
C			80.9	5.5	
I			82.7	3.7	
K			84.3	2.1	

Sta	+	HO	−	Ele	Grade	cut
BM	11.56	70.01		58.45		
0			2.41	67.60	63.3	4.3
+40			4.76	65.25	63.7	1.6
+80			4.64	65 37	64.1	1.3
1+20			4.80	65.21	64.5	0.7
+60			2.40	67.60	64.9	2.7
2+0					65.3	
#	4.38	71.18	0.21	66.80		
2+0			1.8	69.4	65.3	4.1
BM			10.48	60.70		

Cuts for Rock wall at B&L

Sta	+	H.I.	−	Grade	cut
	11.56	60.01			Elev 58.45
0				63.3	
+40				63.7	
+80				64.1	✓
1+20				64.5	✓
1+60				64.9	✓
2+0				65.3	

School house

N W corner of Lot

N.E. cor 20th &

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

86.4
78.5
7.9 77.44
8.96
86.40

Lay over 1 A 1.4
77
526
East side 16th to S 21

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

17 1/2
4 1/2

9.4
7
2.4
6.67

2.17
2.83 outlet
3.33

5.00
2.25
2.75 outlet

wall

12
12
1.22

5
1.22
3.88

5.00
2.25
2.75