MISCELLANEOUS
Memoranda & Notes of STREETS
AREAS, PUEBLO LINES ETC.
E.T. WHEELER 1898

17

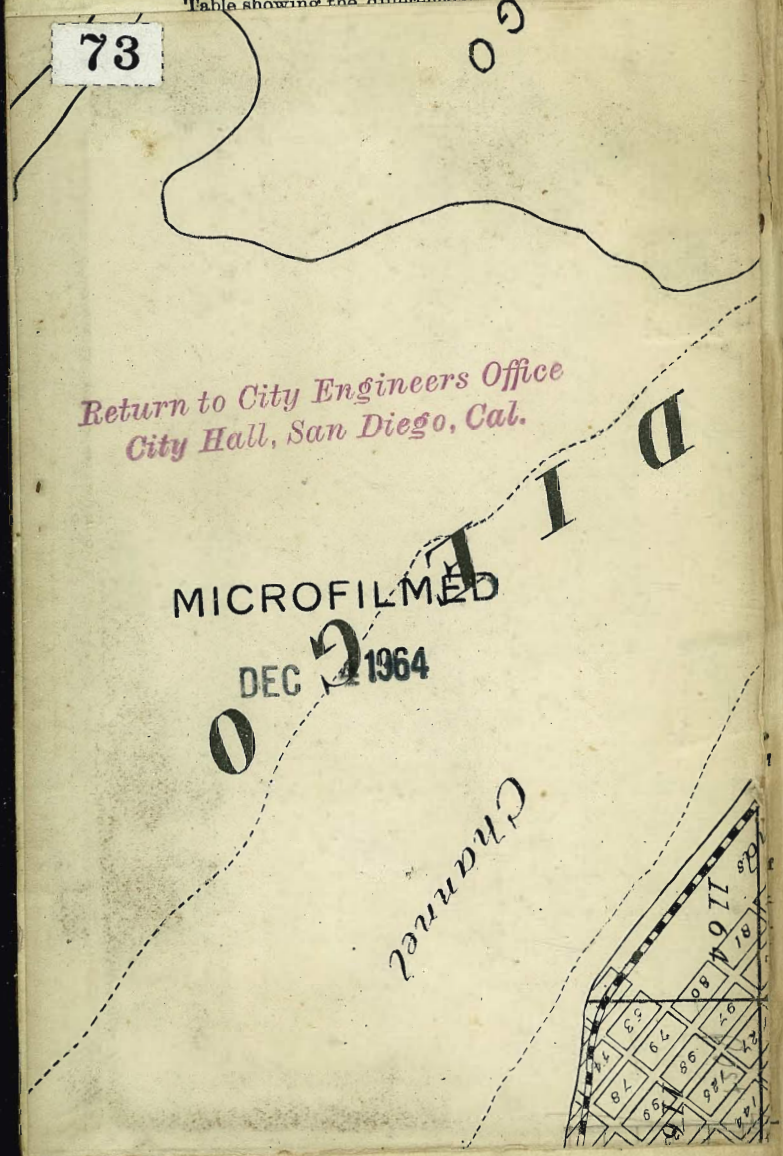
2

F.B. 73

2.

Table showing the difference of latitude and

73



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

MICROFILMED
DEC 1964

E. T. Wheeler
City Surveyors Office
~~1145 F~~ Street San Diego Cal
742 Fifth

73

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

2426
103.6

10
680
100
560
600
700
2620

100
100
80
25
100
80
50
100
080
25
20
700
100
80
40
45
55
1020
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100
100
50
100
100
14
2584
2677.25
2261.25

14

Pages 2 + 12

100
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40
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35
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100
100
44
42,7
2646,7

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6	NW 1/4 Pueblo 1345 Wheeler 1870
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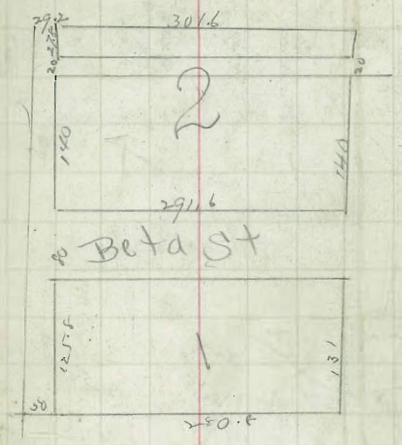
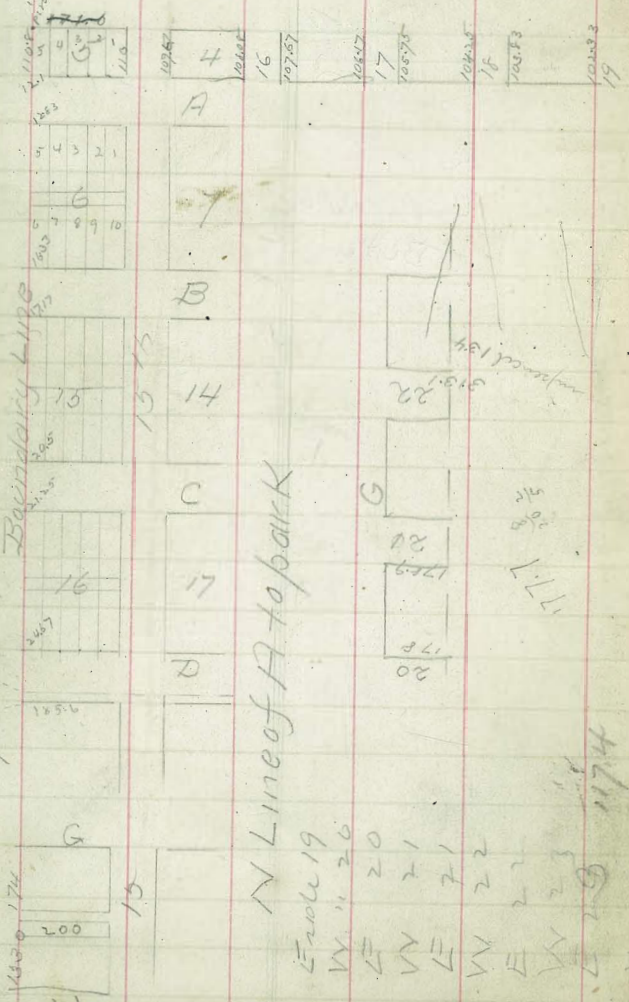
12	Caruthers Add
12	PLA & Unnumbered Lot
13	Pueblo Lots 1303 1304
14	Pueblo corner No 2
15	Part of Land & town Ces Add

Tie points to SW cor P.L. 1343



Measurements to N + W & S Lines of Culverwell's Add

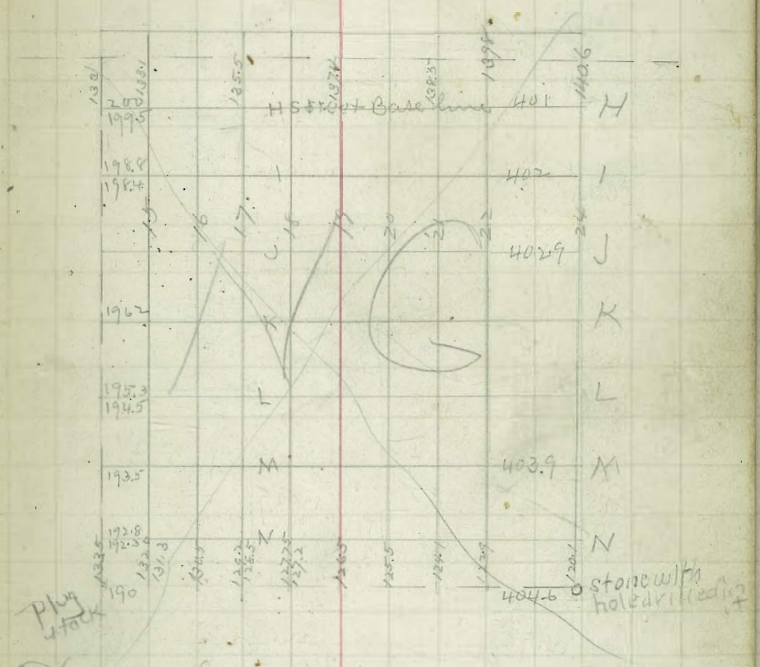
From official map



Sherman's Add

2

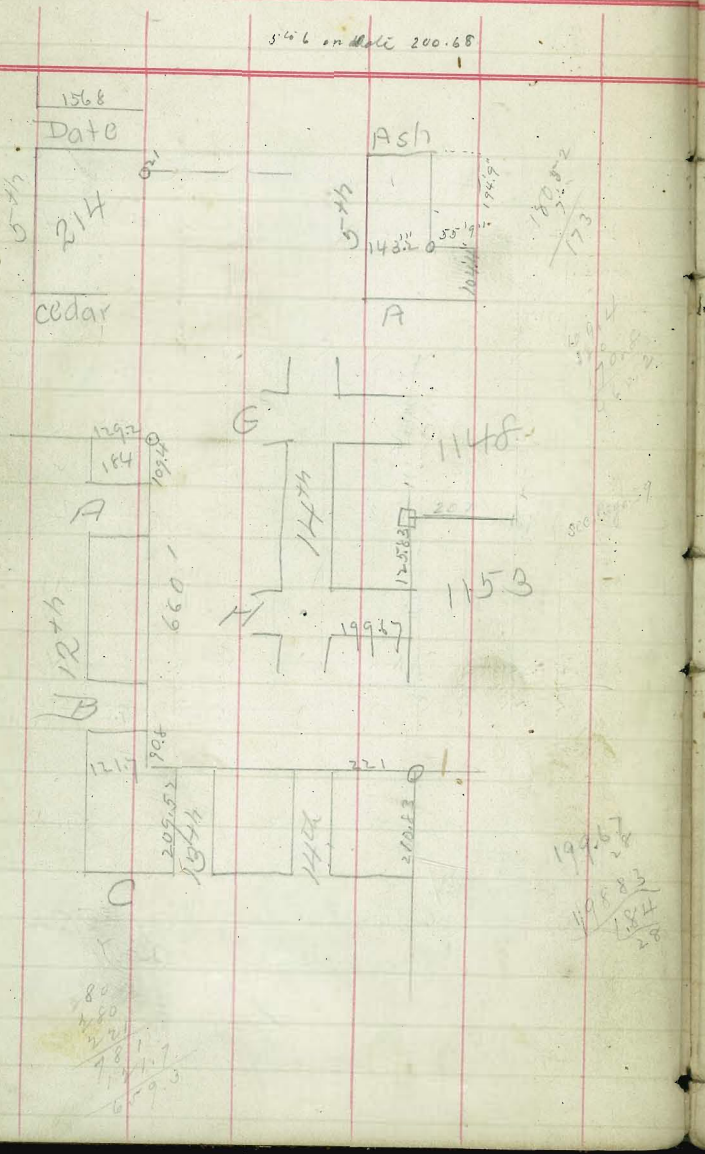
Copy of original notes of survey by MGW 1867
ETW

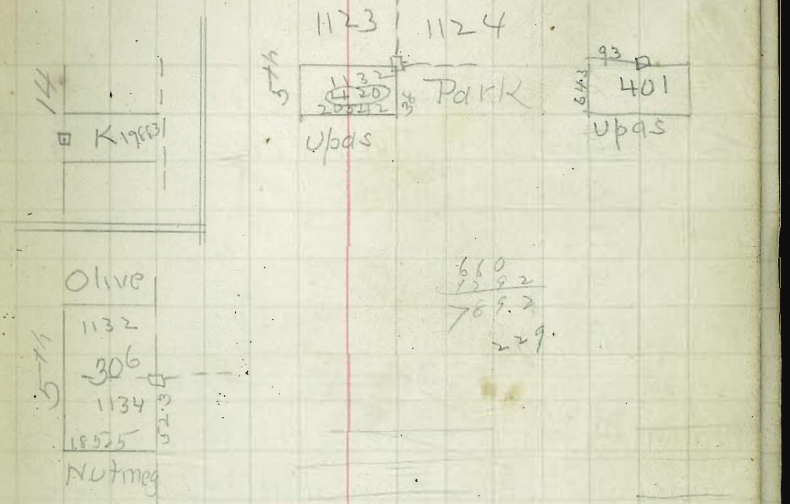


This is the original survey which was partly made by Mr. G.W. but he says there were some changes made in the survey afterwards

Measurements to Boundary Lines of Carother's Add Horton's Add

Horton's Add





offset into 15th 22.6

" " 14th 20.6

Subdivision of Blocks in Different Additions

A (100)	L (100)
B (50)	K
C (50)	J
D (50)	I
E (50)	H
F (50)	G (100)

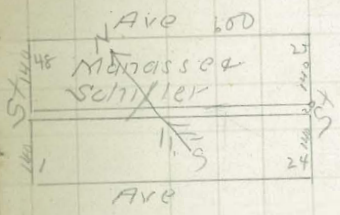
Hortons Newtown

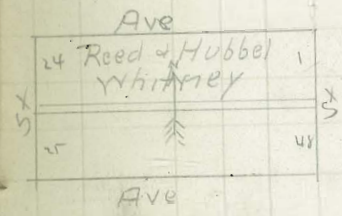
Middletown (4 Nr) is same as Hortons except Numbers are used instead of Letters

12	1
11	2
10	3
9	4
8	5
7	6

Culverwells NW 1/4 1148

Subdivision of Blocks in Different Additions





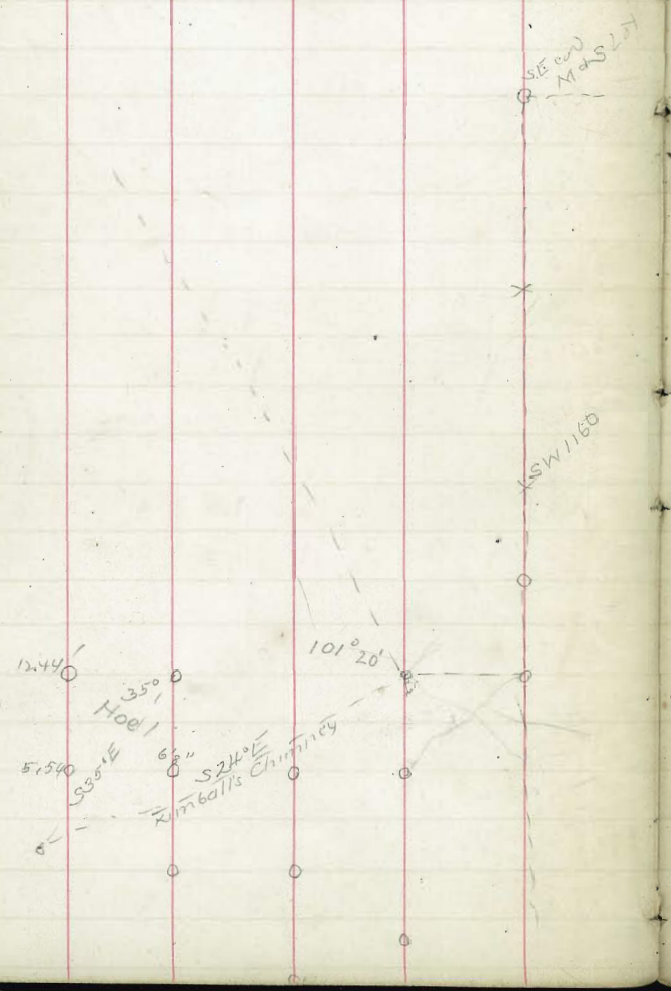
Oldtown

M. Carruthers 1/26 2/135 4/12
City line 1/13 2/23
Culverwell S S 2/27 4/1 26/54
Culverwell & Taggart 15/35 22/103
Oldtown centers 23/38 23/44
Chollas 4/53
Bay view Homestead 2/135
Falsebay 23/45 2/140 28/12,17
Gregory F A 4/53 9/104 14/68
Kimball Bros 9/38 10/85 10/89 10/97
Kimball 26/72
Middletown 1/11 4/48 4/63 4/65 4/74 6/25 9/44 9/46 9/49
Morse E W 2/17 2/25 2/136 2/153 4/47 4/78 22/44 26/52 26/62
M & S Add 4/69 3/13
Newtown first survey 1/3 22/91 4/25 28/0
Nash J 2/6 2/89 2/120 3/23 4/60 9/2 9/52 10/96 26/54
For tie points on N Street see old "City Survey" Book

from N.E. cor 346 to N E cor 355 3150
8.854

Diff bet City datum & govt datum 8.854

Dec 20 1869



probably by Pascoe
see page 6

Survey to retrace some of old lines

set up on line with fence on S Side of Mannasso & Schiller's lot bar shown on the instrument 13°58'
Thence East @ 68.00 chs chs bar 1350
79.80 to S.W. cor Lot 1160
99.75 To 40 acre lot on center of 1160 South side
thence continued 20 chs East to S.E. cor 1160
Turned a right angle to the south from the line of the South side of 1160 & came out 36 lks East of the old stake — at 20 chs South this is the old cor, NW of Skinners 80 acres the course from this cor to chimney on Main part of Kimbals house S 24°E and the included angle between the chimney at Kimballs & peak of Light House 101°20'
@ 40.00 chs south of S.E. cor of 1160 came out 1'4" South & 3'4" E of cor Fence
West side of Skinners Lot 1/2 way down 40.00 chs — come out 3 lks & 2 West of Hoels NW cor found old cor

Dec 20 1869

There is a 4x4" stake about 1 chain N of this point marked NE TR

Thence south

20.00 Came out 16' a little NW from a large 3x4 scantling 5' High and run from same point East bar 13½

11.00 To road

20.00 came out 6'8" SW from old Stake

Memoranda

S.E. cor Manasse

to light house S 72° 30' W

to house on peninsula N 87 W.

NW cor Sherman to light house S 63° 45' W

to house on Peninsula S 63° W

See old book No 3 for notes of pueblo lots

W of Old town also B9 P65

See old book no 23 for notes of east boundary of Pueblo of S.D

For old town centers see B23

Pueblo lots near La Jolla see old B23 p 57

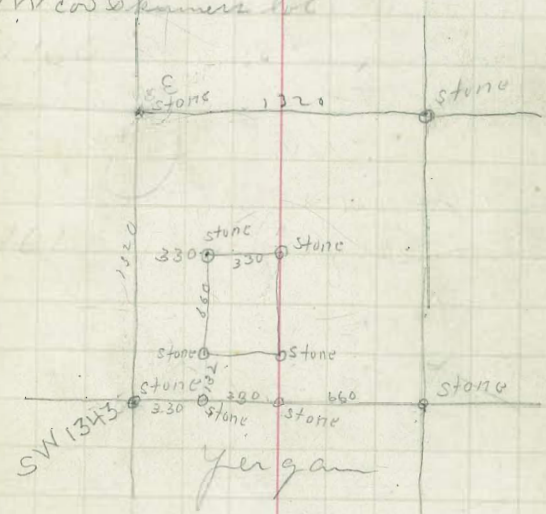
E boundary of National Ro old B9 P 57

Sept 19 1870 Judge S Kinner

probably by MGW looks like less writing

S.E. cor 1160

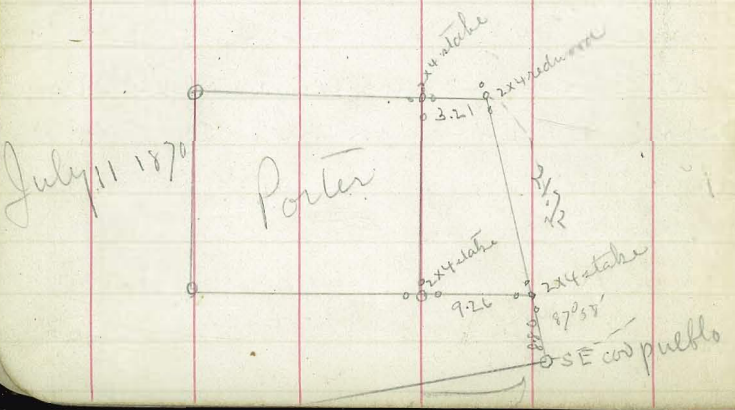
Regin at S.E. cor 1160 from south on line established by Pascoe Dec 20, 69 measuring carefully with steel tape and using transit lines 1320' NW cor S Kinners lot



set stone monuments at all the corners with an X on top

Probably by Mr G.W. Oct 10 1872

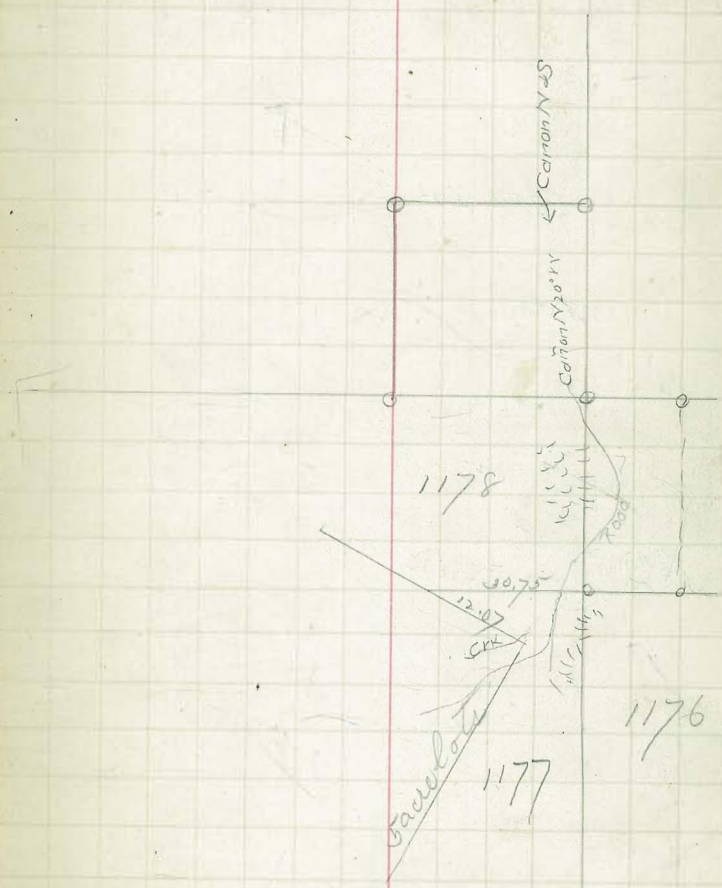
Survey of 80 acres according to deed from trustees to S. Wilber dated 1870
Beg at NW cor 1124 set stake marked NW 1124 in old stone mound thence courses true
N 20 chs set stake NE cor Wilber 80 a tract
W 40 " " " NW " " "
S 20 chs to NW cor 1123 stake in stone mound and E 40 chs to pt of beginning



Sept 28 1868 Survey for Parker in Tecalote

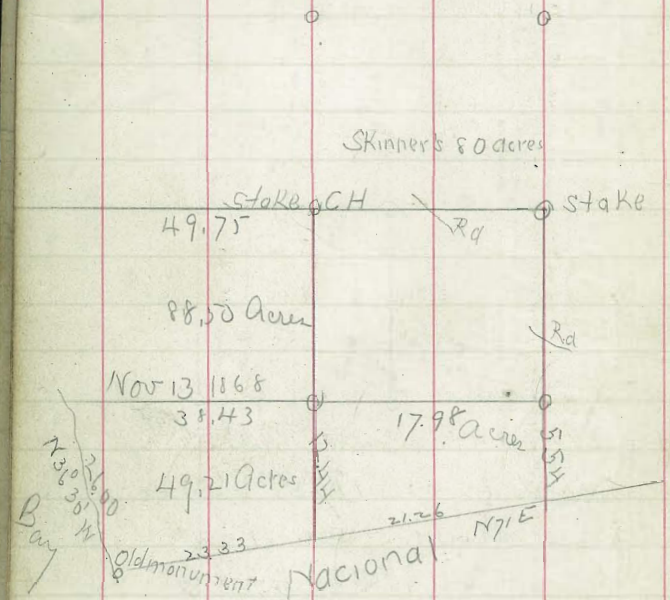
8

HKW B1 P29



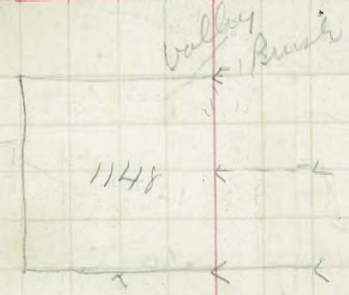
Nov 2d 1868

Probably by Pascoe
from HKW's B. P 29



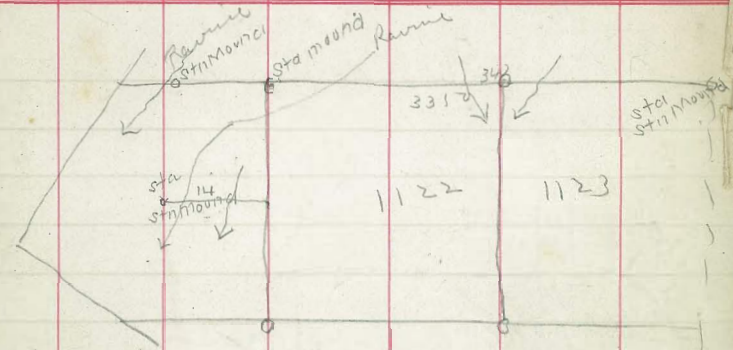
Feb 1 1869 Pascoe?

Book 1 P 50 HKW



survey for Utt & Weed pr Morse
commencing at NE. cor of of Sherman's Lot 1155
N. 20 chs to 1/4 stake bet 1148 & 1149 Thence 20 chs
set stake @ NE 1148 & S Side of Park reservation
From 1/4 cor bet 1148 & 1149 E 20 chs set a
stake for S E cor of Weeds lot Lot 40 acres this
stake is on a ridge same as Kimballs cor
is on
From N.E. cor 1155 (Sherman's Lot)
West 20 chs to S W cor Utts lot

HKWs B1 P37 probably by Pascoe

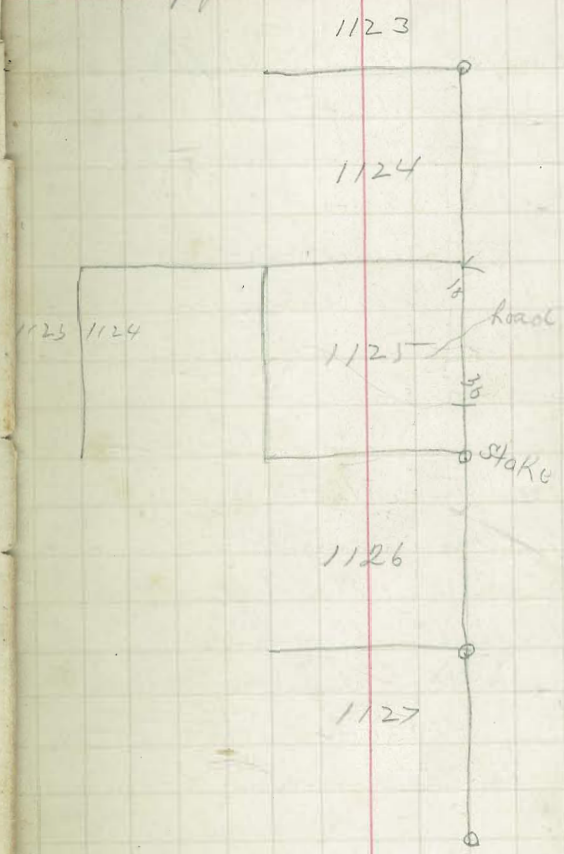


5 acre lot 327 & 10 acre lot 321
Surveyed for A. O. Wallace 1869
For original survey of Mannasse & Schuller
Add by Pascoe see HKW book 1 P69
For survey of M & S add to Rosevelle HKW B1 P79
Mission Valley HKW 1-113
1796 1-117 HKW
Subdivision of Lot B HKW B1 P23

HKW B1 P39 probably by Pascoe

Nov 11 1868

Survey for Gatewood Mesa

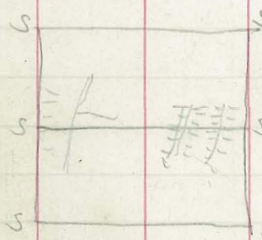


HK IV B1 P51

Pancoe

Feb 2d 1869

Survey of Lot 1132 for Estudillo + Searles – dividing it E. + W.



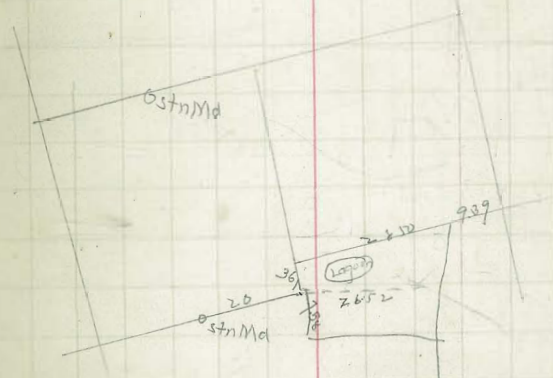
Commencing at the S.E cor of the lot – Thence N 20 chs set a stake 1/4 cor between 1131 + 1132 Thence N 20 chs to N E cor of 1132 set a stake —

Commenced at 1/4 cor bet 1132 + 1131 thence West @ 8.30 descends to deep Gulch running South about 4 chs below the head. @ 10 chs to bottom Gulch at 12.00 chs top of hill on opposite side @ 23 chs descends again along south slope of a Raw Running W at 30 chs set a stake on the E side of Ravine running N + S.

Ed Sanborn May 20 70

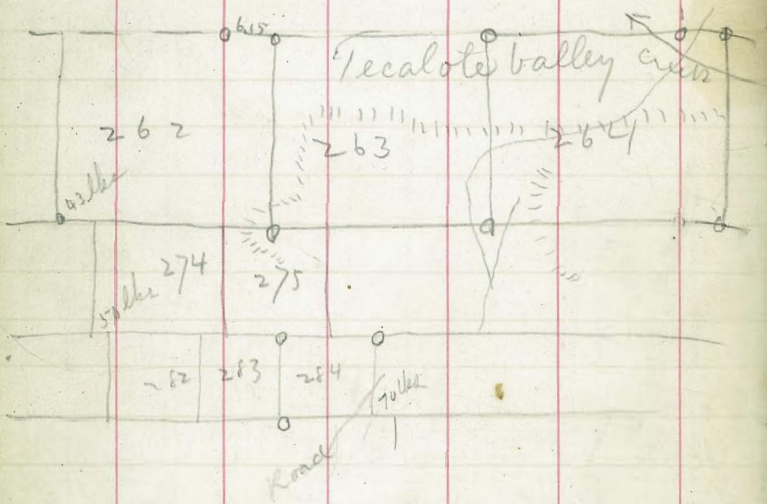
Mission Valley

Setting of 40 acres South of lot 1109



beg SW Cor 1109 Cor 13 1/4 E
N 74 1/2 E 26.50 S 18.69
West 26.52 N 7.58 to SE cor 1108
N 15 1/2 W. 3.61
Cont 40 Acres

Survey for Wetmore & Sanborn
Nov 26 1869 Parcoe?



beginning at S.E. cor 261 thence across flat about 144 chs to foot of low table land 20 chs set cor S.W. 263 continued 40 chs Set cor bet 263 & 264 between forks of road continued 60 chs Set S.E. cor 264. at Rangle Northerly 12.50 to foot of mesa at enter Tecalote 20 Set between N side of the two lots thence R & L 20 chs — —

began at a stake on S side of 282 center of Sote same being N 17 E true bearing, bar 13¼ from a willow tree 10" diam and along side of road going to racetrack

M. Caruthers May 13 - 69
these meas are feet + Inches
Subdivision of 40 Acres
adjoining Hoitman the North
Bay View Homestead

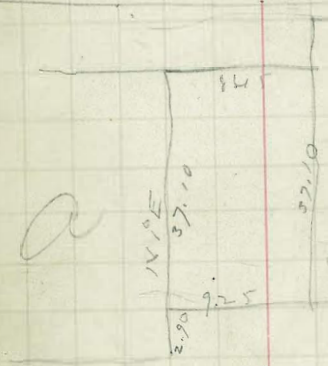
Copy of pascoes original notes

Diff of time between SD + SF 20m 54s

Oct. 20 70

Survey for Nash

M G W ?



J. S. Mannasse
Survey of
Lot between A + B
May 23 73

2520

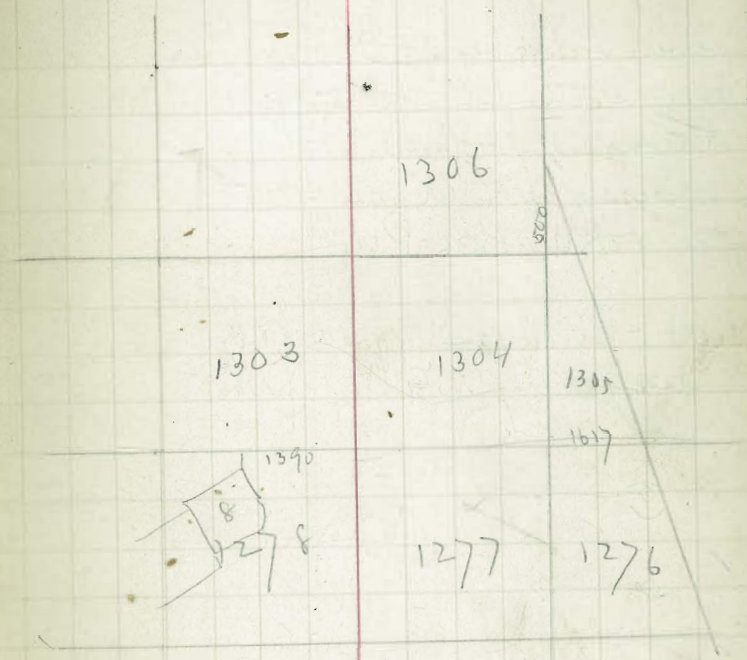
.07

by MGW 1850 HKW B29 P30

Pueblolands NE of Selwyns

Beg at NE corner
of 10 acre lot No 8

courses true
- run north 250'
- East 1390
- North 2640
- East 2640
- North 505 to E line of pueblo

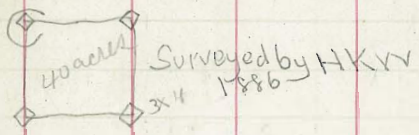


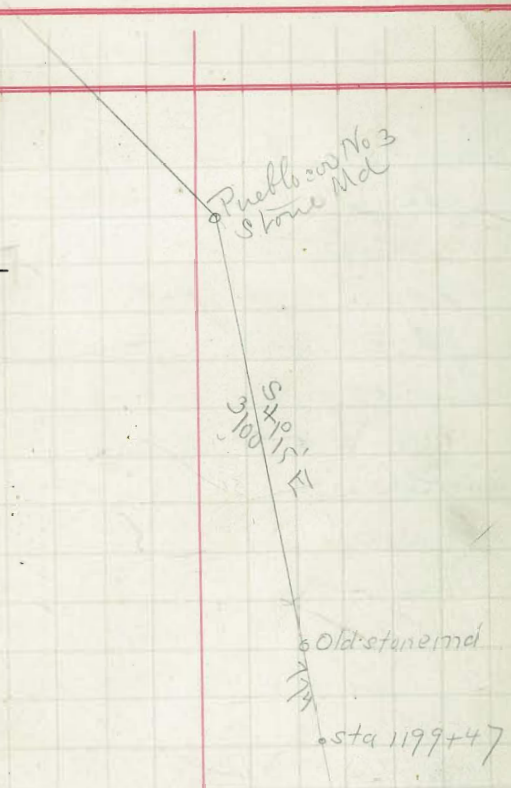
B29 P25 HKW
Feb 2 81

by M & W

Corners have been set on 5 acres square on
S.W cor Lot C. RW posts "D" post at SW
set along side of old cor
Corners of Lot "C" are set
See HKW B36 P64

Lots Block A Laggarty Add has been
surveyed by M & W Apr 16 86





Street Names

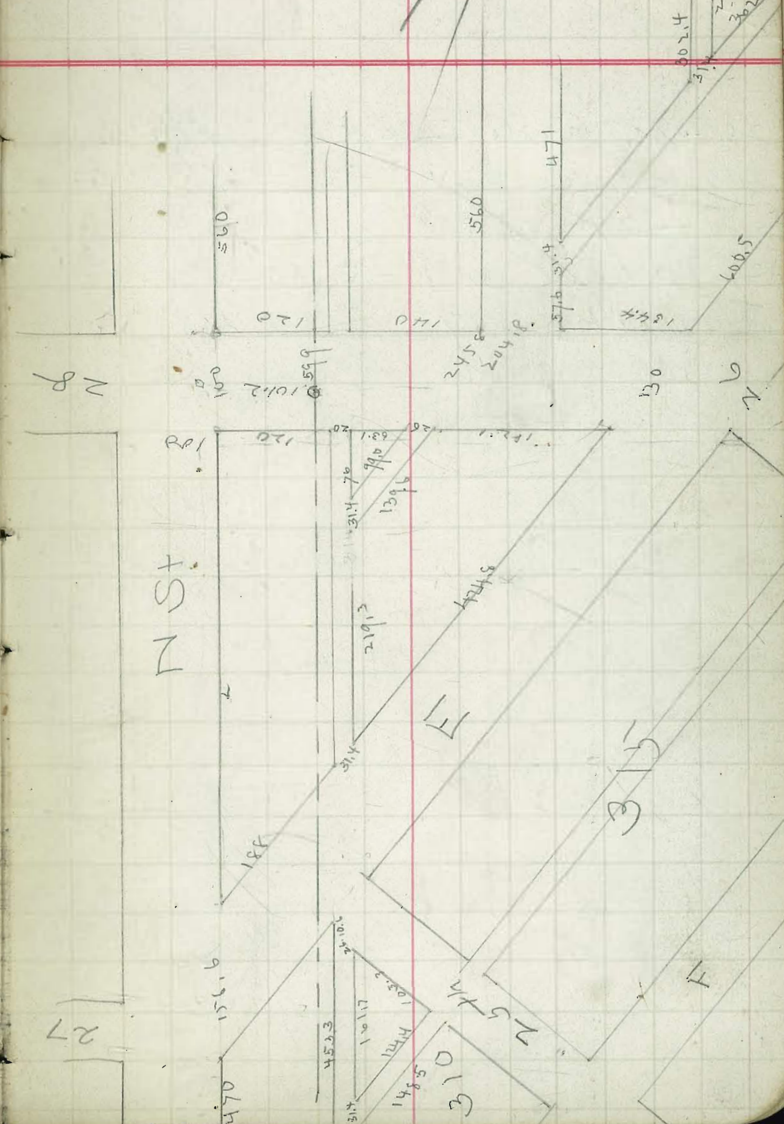
Mannasse & Shiller's Add

E Everett Ave
F Franklin "
G Grant "
H Harrison "
I Inter Ocean "
J Julian "
K Kerney "
L Logan "
M Milton "
N Newton "
O Oliver "
P Pierce "
R Railroad "

O Webster
P Clay
Q Sargent
R Woolman
S Valle
T Martin
U Greeley

Reed & Daly
Choate

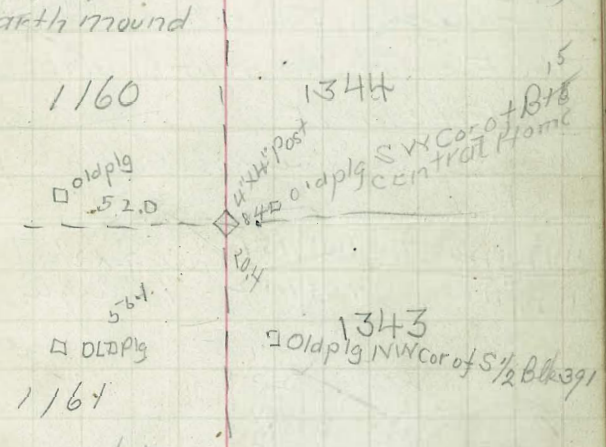
South Eastern Part of San Diego
copy of Fox's Map



Tie points of Cor 1160/1344 1161/1343

28th 987 wide at SSA
100' wide at N Side H
28 — 29 560'
29th 60' 30th 31st 32d 60' wide
Blocks from 29 to 34 are 660' —

Corner is a 4"x4" Redwood post marked with the numbers of the pueblo lots of which it is a corner and an earth mound



Reset 3/27 88 by G.D.A + E.T.W found old corner and set post in same place

Description of Pueblo Lot corners

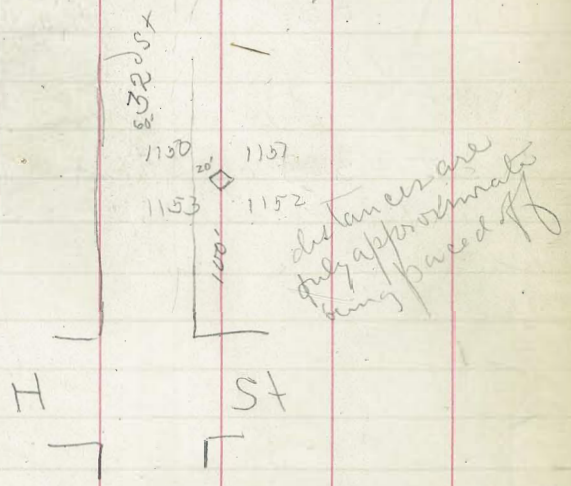
about 320' W of coo of Gregory's Fence

The N.W. cor of 1160 is an old 3x4 post & Earth mound about 5' W & 1' N of plug & witness marked thus (18) 32' St B135 alley

The S.E. cor of Sherman's Add is a stone with a hole drilled in it

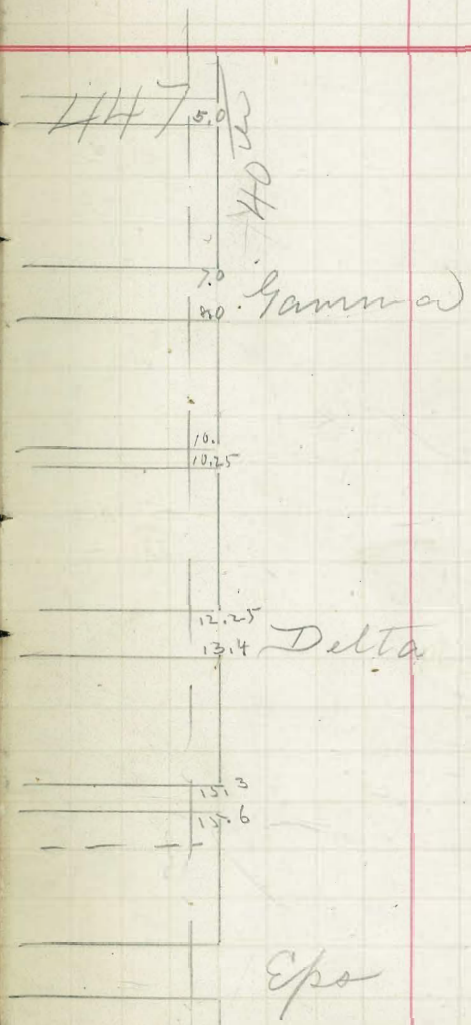
1154 | 1153 / 1158 | 1159 pin driven above old plug

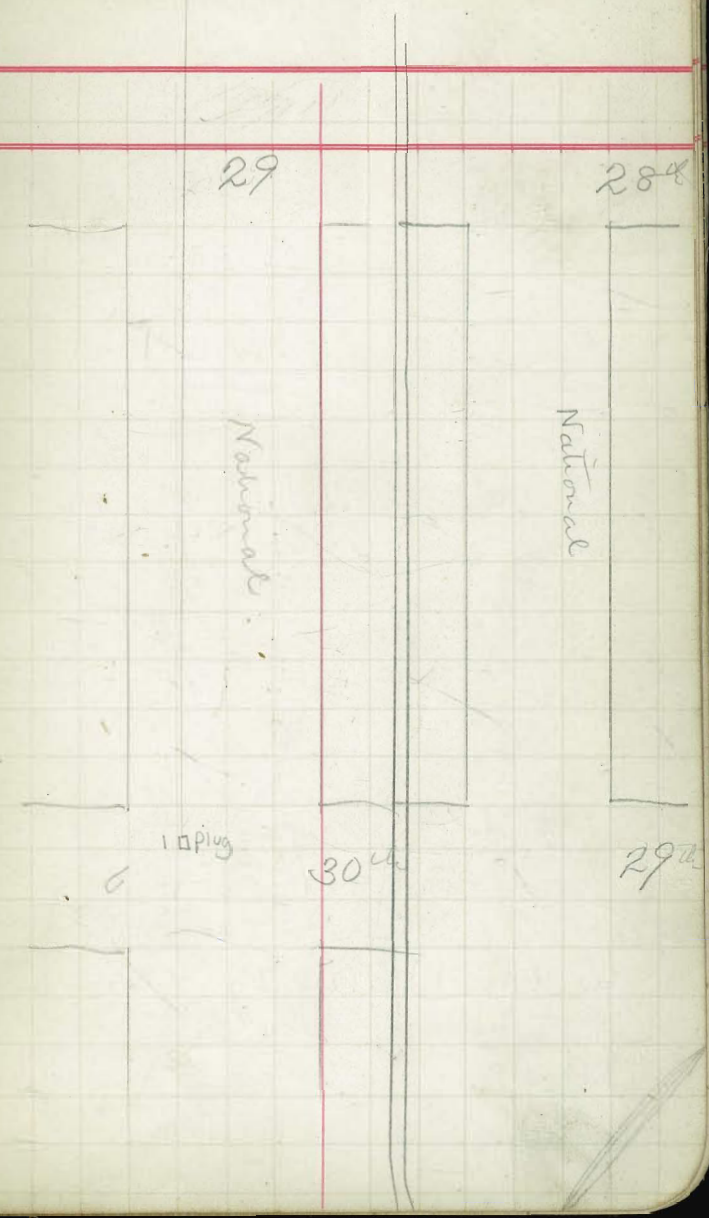
1149 | 1150 / 1154 | 1153 — 1150 | 1151 / 1153 | 1152 are 2"x2" stakes about 18" high



distances are only approximate being paced off

Portion of Garland's Add N 1/2 1342




29
28th
National
National
1 □ plug
30th
29th

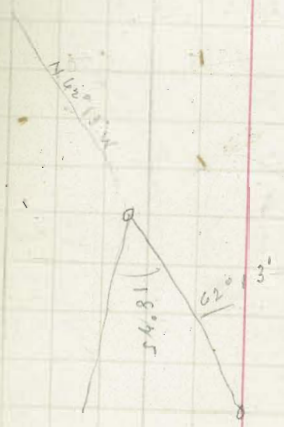
Choates Addition
E 1/2 1159

Avenues 80'
30 St 80' 31st + 32d 60'

331 | 332
0

U
324 | 339

Reed & Daley 29st 60'
30th St 80'

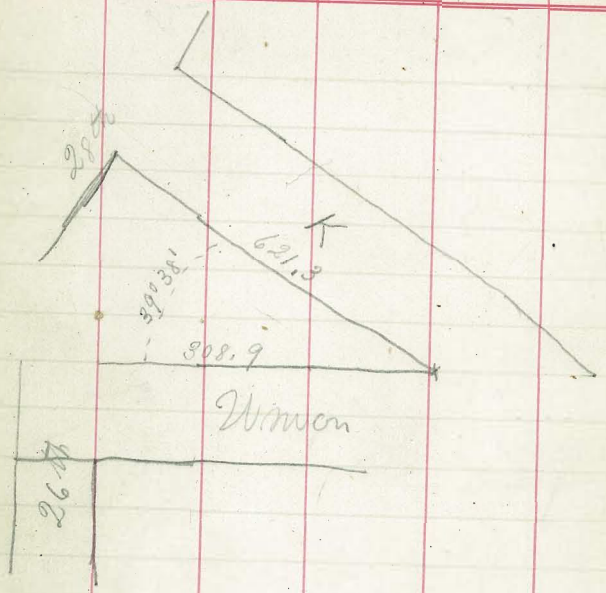


East side South from Olive St.

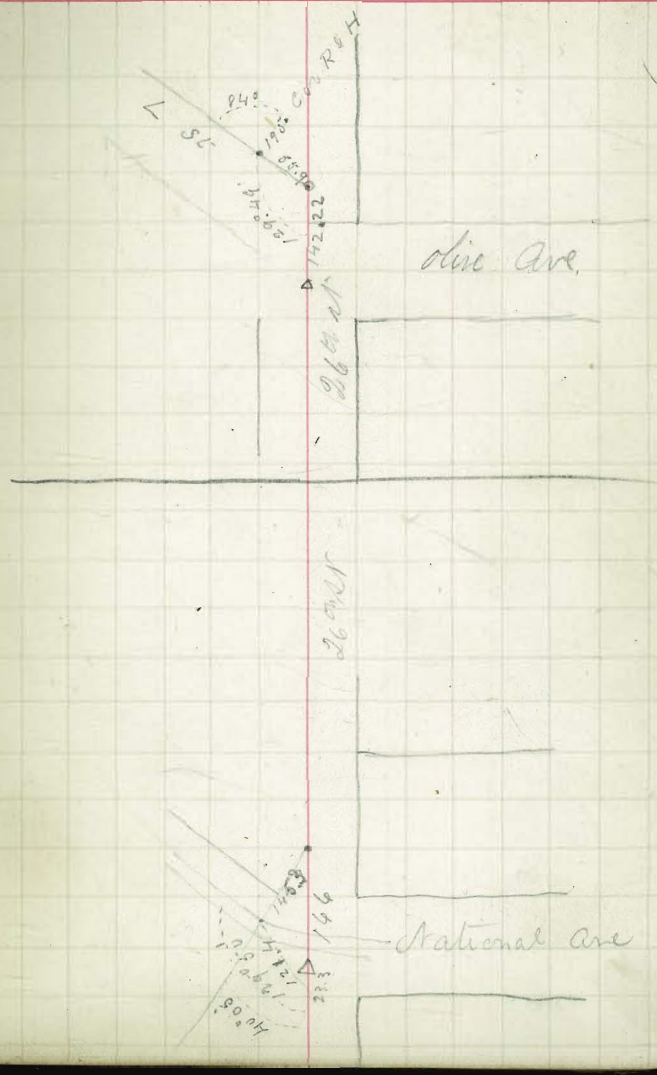
From olive to U		302.1			
U st.		80.1	△		
U. to T		279.93			
T st		80			
R st		79.05	△		
R to Q.		300.8			
Q		80.	△	30th st	
Q to P.		300.2			
P.		80.	△		
P to O		300.5			

30th st 60' Wide from this point

681.3
60
621.3



28th
K
621.3
390.38'
308.9
Union
26th



L
Cor R & H
142.22
Olive Ave.
26th St
26th St
National Ave

(1449 to transit)

Dist from W line of 24th to E Bound C & T Add

N S	a	6.7
S C	A	6.4
N alley		5.9
S	"	5.8
N	B	5.3
S	B	5.0

From Map at Courthouse

3 - 20 - 88

2.4 / 5 1/3

6.7 / .293 / 6.507 / 55

150 / .367 / 183 / 550

42 / 3.87 / .33 : 100 :: x 300 / .33 / 900 / 900 / 1.00) 99.00 / .99 / 387 / 486

1.1 / 3.87 / 4.97

City Additions

ADDITION	PUEBLO LOT
Arnold & Choate's	B
Canal St Tract	Unnumbered Lot
Culverwell's Add	SW 1/4 1148
Crystal springs Add	subd of Lot's A, B, C, D, B4 Central Home
Caruther's	SW cor of Park
Brouletts Subd	SE. 10 acres of 1793
Bayside	261 + 257
Carr's Add (not recorded)	N 1/2 of N.E. 1/4 1154
Choate's Add	
Bates' Add	E 1/2 1159 -
Cunningham's Add	SW 1/4 1152
Central Park	S.E 1/4 1153 + W 1/2 of W 1/2 of
Central Homestead	1160 + 1344
Crittenden's Add	
Bay View tract	
Breed & Chase's	S.W. 1/4 1149
Crippen's Add	
S.E. Abel's.	W 20 acres 1168

ADDITION	PUEBLO LOT
Fenn & Tremann's	SW 1/4 1153
Frary's Add	SW 1/4 1154
Daugherty's Subd 1154 300x600 beg at NE cor	S 1/2 of NE 1/4 1154
Eastern Add	S+S PO Blks 200x300 Lots beg at SW cor Blk 1139, + 1140
Homestead Union	SE 1/4 1152
N W Hensley's	E 1/2 of SE 1/4 1154
H.M. Higgins Add	N 1/2 1149
Gardner's Add	NW 1/4 1148
Hoitt's Add	NW 1/4 1153
Garland's Add	N 1/2 1342
Hayes' Park	223+224 & Hayes farm
Haffenden's Fairview	Portion of 1151
Hayden's Subd	
Chas Hensley's Add 1154	W 1/2 of SE 1/4 1154
Guion's Add	S 1/2 NW 1/4 1342
Horton's Add	1132, 1133, 1134, 1145, 1146
Higgin's Add	W 1/2 of W 1/2 1125

ADDITION	PUEBLO LOT
Hoells, Richter's & Haydon's	
Gillmore's Subd B221 H.A	
T.J. Higgins	W 1/2 1125
Low & Olmstead's Add	
Jennings	
La Playa	
Loma Heights	
Johnston Heights	
Jones' Add to Silver Terrace	
La Jolla	
L W Kimball's 1152	NW 1/4 1154
Long & Hickock's Subd Lot H Blk 5 Central Flm	
Louis'	
Land & Town Co	
Lockling's Subd	

ADDITION	PUEBLO LOT
Northern Add	
Northern Ext H.A	1122
Ocean Beach	
Old Town	
Ogden's Sub of B58 HA	
Ocean View	
Marmasse + Schiller	PL 1157
N. Western Add	
Newtown	
Morena	
Morse's	W½ 1106
Middletown	
Middletown Add	1121
Magnolia Add	
New Roseville	
Middletown Original	
McLaren's H.S + Add	
M + S Add	SW¼ 1161
Morse + Horton's	1150 + N.W. ¼ 1151
Powers + Howard's	E½ 1124

ADDITION	PUEBLO LOT
Pauly's Add	W½ 1126
Reed + Hobbel's	E½ 1163 + W½ 1162
Park Add	S½ 1141
Park Villas	E½ 1127
Pacific Beach	1784, 1789, 1790, 1791, 1792, 1794, 1795, 1796, 1799, 1800, 1801, 1802, 1803, 1793
Pacific View	Part of 1143
Reed + Daley's	NW¼ 1159
Parrish + Loomis's	W½ of S.E. ¼ 1149
Roseville Heights	184 + 189
Roseville	198, 199, 208
M + S Add to Roseville	209
Reimers	1103
M Sherman's	NW¼ 1138
Sunnydale	
Silver Terrace	
Sherman's	1155
Skinner's Add	S.W. ¼ 1343
Seaman + Choate	NW¼ 1161
Steiner Klauber + c Add	
University Heights	
Sunset Tract	E½ Lot 33 W½ Lot 32 Horton's purchase Ex Mission

ADDITION	PUEBL
Sellon's Add	257
Sherman's Subd B63 S.A	
Stone's Add	Part of 222
Subd Lots 8, 9, 10 Skinners Add	
~~Santa Rosa Add~~	
Statson's Add	
Taggarts	NE 1/4 1148
S.D. Property Union	W 1/2 1140
Watson's Add	
Watson & Biddle's	
A. O. Wallace's	W 1/2 1128
Whitney's	
Wetmore & Sanborn	1160 & SE 1/4 1152
West End	W 1/2 1127
Western Add	N 1/2 207
Williams & Jordan's	
W. G. Wertz's	
Utt's	S.E. 1/4 1148

Plugs set on base lines
in survey of Middletown
by Jackson
above Date

on S.S. Fir Column to Cal except
E side of California
on N.S. Fir & Columbia
on S.S. Nutmeg Column to Calif
" N.S. Nutmeg at "
on S.S. Olive & Arctic & Columbia
on S.S. Palm Calif to 1 blk E of Union
on N.S. Palm at Arctic
on S.S. Thorn Arctic to Union

California on East line Grape to Nutmeg and
Center of Olive & Olive Palm
Arctic Palm to S.S. Scott except
Willow on W line
First from intersection with Calif
To Courts on W line

Ave S.S. Courts? from 1st to 5th?

Taggart and Utt – May 1st 1869

All that land lying in Pueblo lot No 1148 according to Official map by Poole and particularly described as folows: Begin at N.W. cor. of N.E 1/4 - 1148 at a pt. where the said Taggarts lands adjoin that owned by Gardener and running south 9 chs thence W-(E) 5.55.5 chs, thence N. 9. chs. thence west 5.55.5 chs to pt. of begining - containing 5 acres

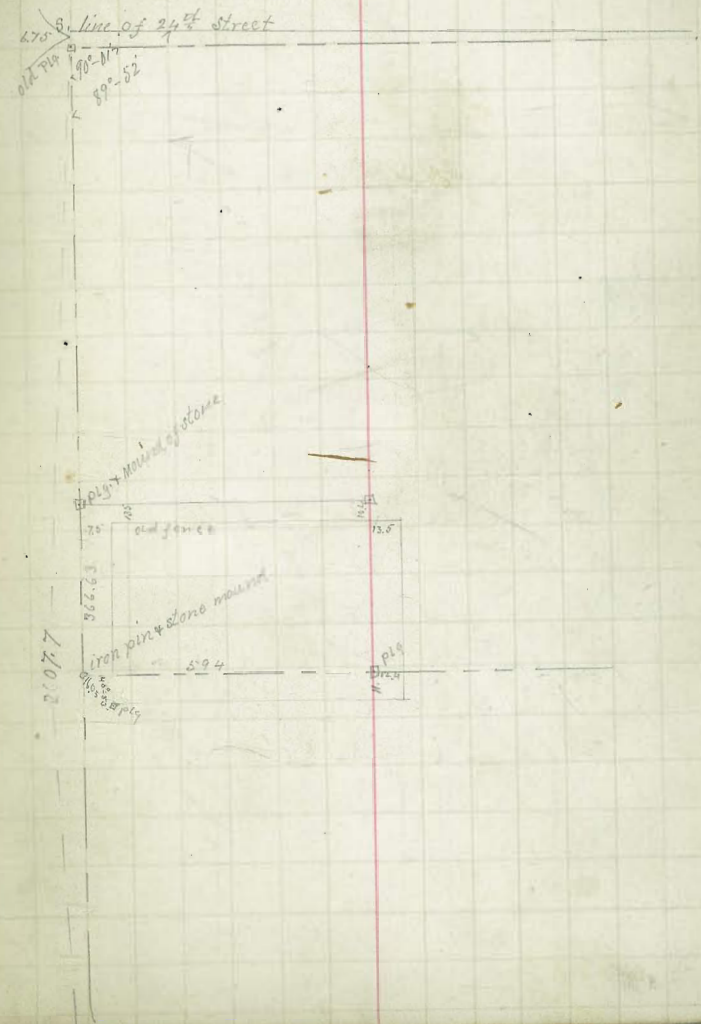
31.6
7
38.6
100
100
50.
25.
100 – 512 plg
413.6
59

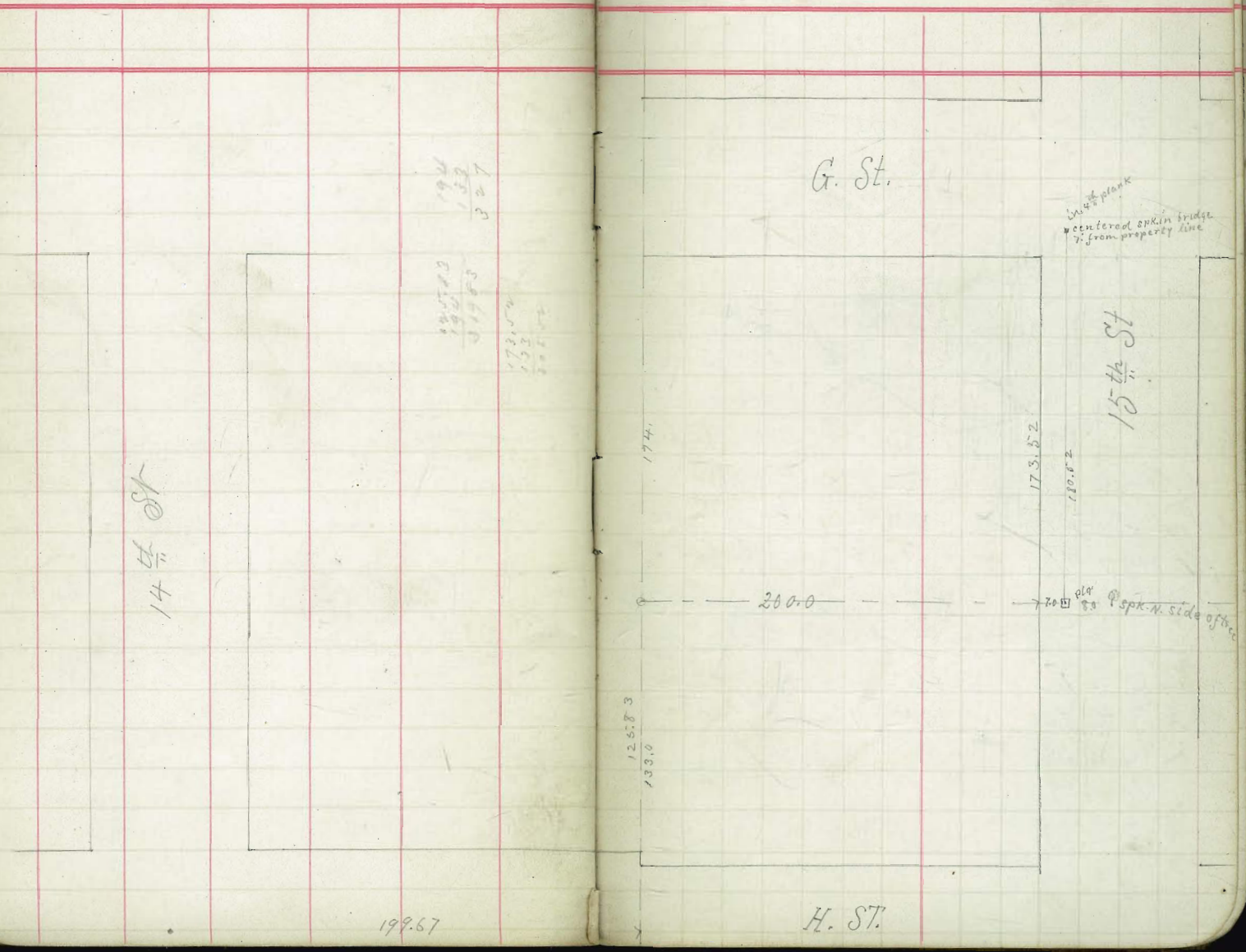
380.12
73.
102.33
555.45
38.55
594.00

2607.7
1303.85
6.75
1310.60

2.88
86
3.74

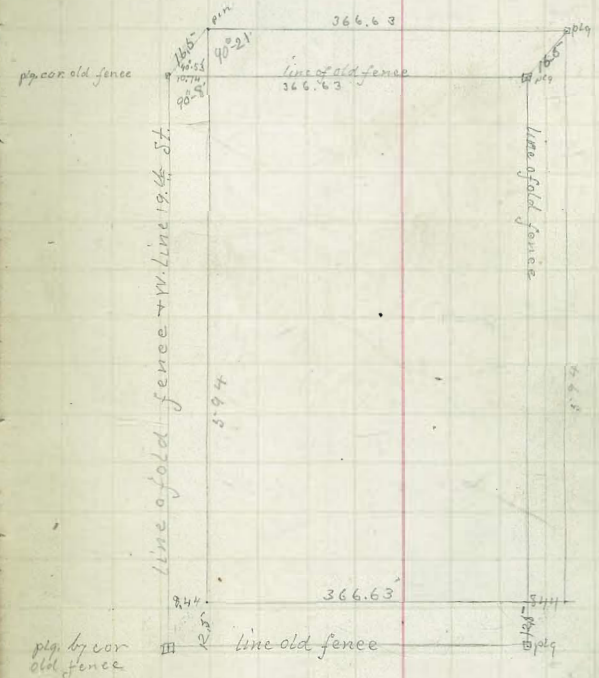
1303.85
3.74
1300.11
1304.59




G. St.
in 4th plank
centered spk. in bridge
7' from property line
15th St
174.
173.52
180.52
200.0
7.0
plg
8.0
spk. N. side of tree
125.83
133.0
H. ST.
14th St
199.67

90°
40.53
49.07

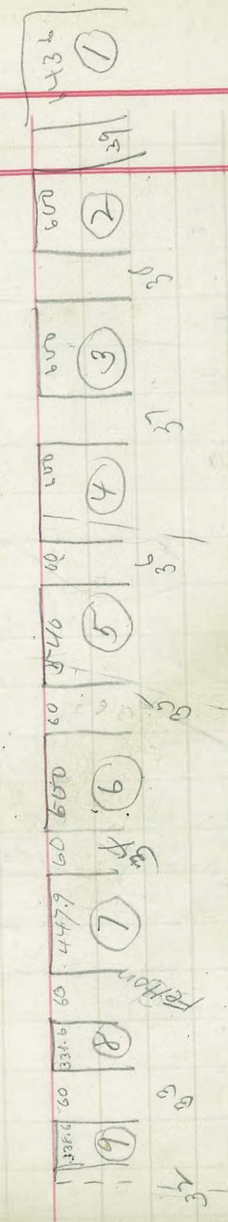
I located N. W. cor. 1148 from recorded measurements from A St + 13th St. + found the distance from N. W. cor. to plg at N. E. cor. to be 2607.7' feet. At 1303.83 set pin for 1/4 cor. and found W. line of 19th Street to be 10.74 feet W. of this point + from actual measurement find W. line of 19th Street to be 0.3 feet W. of 1/4 cor. on S-line of 1148. The S. E. angle bet. 19th Street and N. line of 1148 is 90°-08' then by calculation I find the angle bet the N. line 1148 and the quarter line running south to be 90°-21'



117
116

North St

87-47



City Park Boundary

J.C.W.

From stake + mound with pits

N. S. E & W - Run E.

1345 - Stake for 1/4/14 cor. 4' South of line

2651 - Stake + Stone mound

(2610) Thence E

2710 - Stake + Stone mound

Thence E.

2776.5 To cor. fence said to be lot cor 79 + 96 cor

(2676.0)

Thence South

2640 New stake in mound of stone

Thence South

609.25 Cen. of R.R. Hubon 633.15 W.C.K

26.11 - 88' W. to old plg. cop. tack - E 2621 P. cor.

2677.25 Plg. + stake represented to be on line of Park ave + on S. line of North Street

5261.25 set plg. 24.3 S of post on E side of 28th + 75.7 from W. line 28th + 80.5 to

From stake south

2646.7 to Pueblo cor

Hubon Sta. 76 ☐ 356 R Vane

N ☐ 10 ☐ 10 ☐ S

Hubons line is 35.8 - E of this line

4×4 stake with 2 - 2×2 stakes one of which is marked 1142 + 1141

13.7 E. of cor.

190.75
20
170.75
152.55
18.2

152.55

691.7
640.8
661
1993

.006875-7
692
137514
618813
412542
4.757984 4

2647) 18.200 | .006875-7
15882
23180
21176
20040
18529
15110
13235
18
18

.006875-7
1332
137514
206271
206271
68757
9.158432 4

170.75
4.75
166.00

170.75
9.15
161.60

170.75
13.70
157.05

2627.25
66.25
2611

.006875-7
1993
206271
618813
618813
68757
13.703270 1

5261
2677
2584

5261.25
2640
2621.25

City Park J.C.W.

Stakes numbered on E line of Park

No.	Ft. W. of line of stakes	E.	E. of Park
135		36.8	123.8
136	0.0		
145	0.0		
149	0.0		83.
150	7.0		76.
155	41.0		41.5
160	75.0		5

Traverse of Belt Line through Park

July 1888

Intersection of S. line of park with belt line 234.6' W. of 1/4 1/4 cor on curve of R.R. to R. corresponding with Sta 202+2.4

Assuming South line of park to run E + W & run

		Sta			
N 37°-52½ E	100	1	on curve to R		D 87.54
N. 66°-30½ E	100	2	" " " "		
N 85-22 E	60	3	E.C.		
S 89.38 E	13.5	4	to B.C. to L		
N 88-23 E	100	5			
N. 69-19 E	100 ×	6			
N. 54.10 E	100	7			
N 43-28 E	55	8	E.C		
N 40-37 E	55	9	B.C. to R		
N 44-6 E	100	10			
N 49-45 E	3.5	11	E.C.		
N 50-56 E	100	12	B.C. to L		
N 50-14 E	100	13			
N 45-44 E	100	14	~~E.C.~~		
N 41-51 E	100	15	E.C.		
N 40-33	46.5	16	B.C R		
N 45,29	100	17			

0.0 Intersection of S line of Park 234.6' W of 1/4 1/4 cor. on curve to R.

		Sta.				
N 57-47 E	100	18				
N 69-56 E	100	19	E. C			
N 77.53 E	60	20	B. C - L			
65-53	100	21				
52.57	100	22				
37-20	100	23	E. C.			
30-17	8.25	24	B. C R			
35-45	deflect 100					
46 11	200					
49.12	250	25	E. C			
N 65.40 E	185	26	B. C L			
62.22	100					
56.54	200					
39-24	300	27				
35.49	75	28	E. C			
29-30	125	29	B. C			
32.12	100					
35.13	200					
39.7	300					
42-45	400	30	E. C			

48°-6'

40°-13'

42°-47'

29-39

		sta
N45.29 E	140	31 B.C.L △
51.20	100	
46.19	200	
45.12	220	32 E.C.+B.C.R △
39.55	100	
44.47	200	
47-36	260	33 E.C △
58.00	100	34 B.C.L △
52.13	100	
47-38	200	35 △
30.38	100	
24-40	200	36 E.C. △
11-51	565	37 B.C R △
18-43	100	
25-47	200	
32-25	300	
35.15	351.75	to plg set by Hubon
		I 2½ to R

1934

6.6

.25
50
8
.58

253 | 27.9 | 1.103
253
260
253
7.0

1.1
37
1.47

2651
2676
2710
8037

19

200.23 1110
198.83 1318
19667

1.40 132 | 2.16 | .164
132
840
792
480

1110
132
1318

.164
1110
820
164
164
1.986

3.56

1 Miscellaneous

2

3 4TH to 14TH South of Date

4 Front to Atlantic below Elm (also Town to Ivy)

5 1st 2d & 3d Sts

6 Tiepoints 1887

7 Tiepoints 1888

8 Old Town

9 ~~4TH 5TH & 6TH H.K.V.V's book~~ obsolete

10 M. & S. Add L. & T. Co.'s Add

11 24TH to 30TH & Miscellaneous

12 Middletown

13 Tiepoints L. & T. Co & R. & H.

14 Horton's Add N. of Ivy

15 Horton's Add N. of Ivy 10th

16 Measurements of Fractional Blocks

17 Miscellaneous Profiles

18 ~~Hortons~~ Add Office book

19 15th to 34 St Office book

20 M. & S. Add & S. & T. Co Office

21

Magic Square

3	16	9	22	15	
20	8	21	14	2	
7	25	13	1	19	
24	12	5	18	6	
11	4	17	10	23	65
				65	

add to 65

N

N Horton's N of Juniper

N

NN

N

IDGAR WHEELER

EDGA

Timo

4 12 With Wilkow St Center work C & T Add

4 13 " Donovan running S line of Park

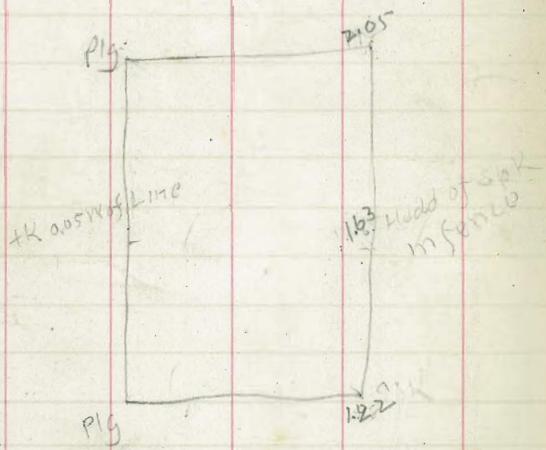
Olive + 27 + 29

Boston 27 & 29

~~2725~~

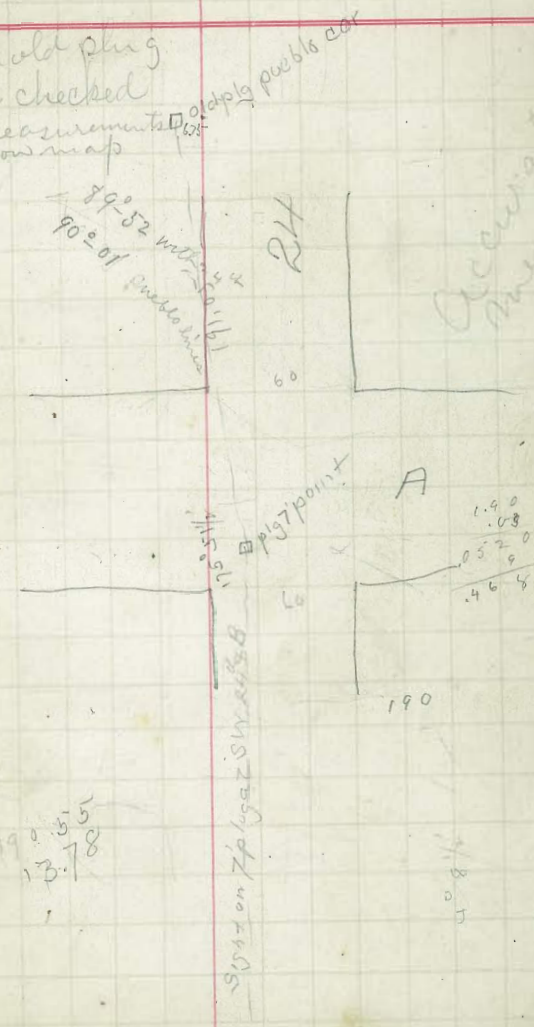
3134 in 100

			13.78	.190	.55
4°8'½	191.05		.0722	.9974	
185.4	2 1/2		.0353	.9994	
			6.54	185.3	



2.50 .46
2.92

Found old plug
which checked
with measurements
given on map

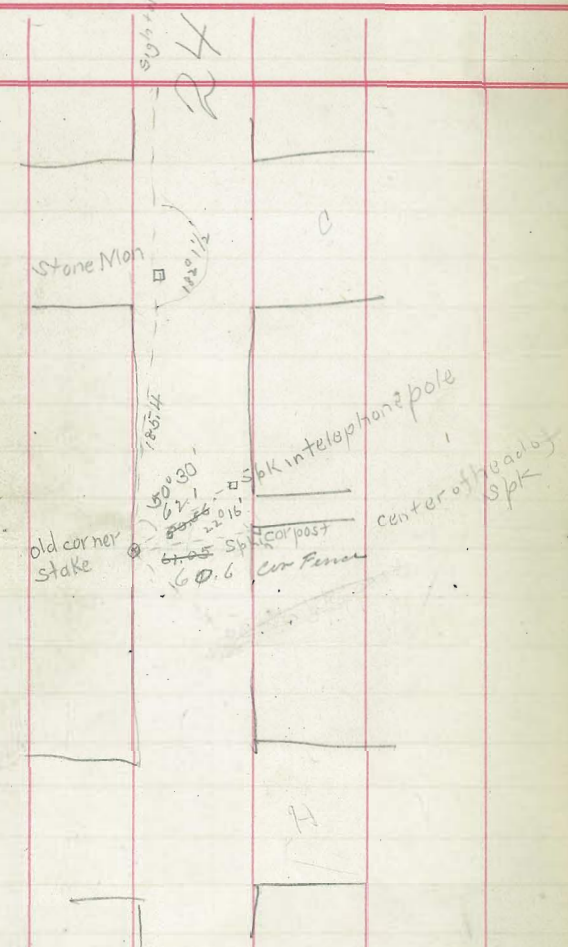


Accurate measurements

cor 190.55
13.78

2245
2273
640
5098

Measurements are accurate



1168 3 - 160

1153 N E 1/4 of SW RM Power 4/190

Table for reducing Meters to feet

Meters	Feet				
1	3.2808	21	68.897	41	134.52
2	6.5616	22	72.177	42	137.80
3	9.842	23	75.458	43	141.08
4	13.123	24	78.739	44	144.36
5	16.404	25	82.020	45	147.64
6	19.684	26	85.301	46	150.92
7	22.965	27	88.581	47	154.20
8	26.246	28	91.864	48	157.48
9	29.527	29	95.145	49	160.76
10	32.808	30	98.427	50	164.04
11	36.088	31	101.71	51	167.32
12	39.370	32	104.99	52	170.61
13	42.650	33	108.27	53	173.89
14	45.931	34	111.55	54	177.17
15	49.212	35	114.83	55	180.45
16	52.493	36	118.11	56	183.73
17	55.773	37	121.39	57	187.01
18	59.054	38	124.67	58	190.29
19	62.335	39	127.95	59	193.57
20	65.616	40	131.23	60	196.85

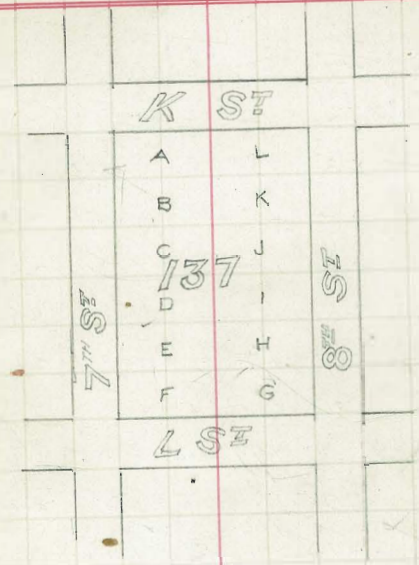
Meters	Feet	Meters	Feet
61	200.13	81	265.75
62	203.41	82	269.03
63	206.70	83	272.31
64	209.98	84	275.59
65	213.26	85	278.87
66	216.54	86	282.15
67	219.82	87	285.44
68	223.10	88	288.72
69	226.38	89	292.00
70	229.66	90	295.28
71	232.94	91	298.56
72	236.22	92	301.84
73	239.50	93	305.12
74	242.78	94	308.40
75	246.07	95	311.69
76	249.35	96	314.97
77	252.63	97	318.25
78	255.91	98	321.53
79	259.19	99	324.81
80	262.47	100	328.09

Chains	Feet	Meters
5 chs	330'	100.6
10 chs	660'	201.17
15 chs	990'	
20 chs	1320	
25	1650	
30	1980	
35	2310	
40	2640	
80	5280	

$\sqrt{2} = 1.4142136$ $\quad \sqrt[3]{2} = 1.2599210$

$\sqrt{3} = 1.7320508$ $\quad \sqrt[3]{3} = 1.4422496$

$\sqrt{5} = 2.2360680$ $\quad \sqrt[3]{5} = 1.7099759$



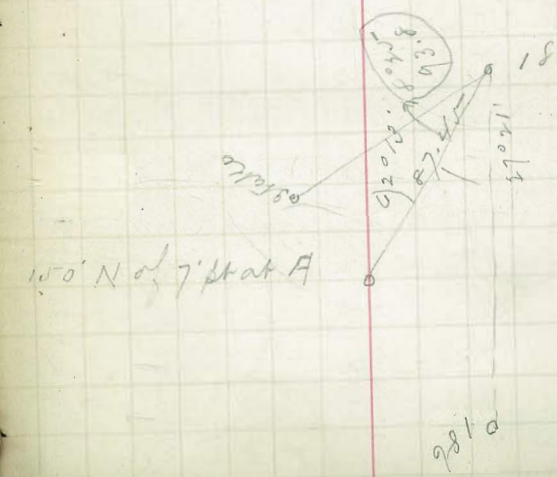


Table for Reducing Chains to Feet

E.T.W.

Chains	Feet	Chains	Feet	Chains	Feet
1	66	21	1386	41	2706
2	132	22	1452	42	2772
3	198	23	1518	43	2838
4	264	24	1584	44	2904
5	330	25	1650	45	2970
6	396	26	1716	46	3036
7	462	27	1782	47	3102
8	528	28	1848	48	3168
9	594	29	1914	49	3234
10	660	30	1980	50	3300
11	726	31	2046	51	3366
12	792	32	2112	52	3432
13	858	33	2178	53	3498
14	924	34	2244	54	3564
15	990	35	2310	55	3630
16	1056	36	2376	56	3696
17	1122	37	2442	57	3762
18	1188	38	2508	58	3828
19	1254	39	2574	59	3894
20	1320	40	2640	60	3960

Table for Reducing Chains to Feet

E.T.W.

Chains	Feet	Chains	Feet
61	4026	81	5346
62	4092	82	5412
63	4158	83	5478
64	4224	84	5544
65	4290	85	5610
66	4356	86	5676
67	4422	87	5742
68	4488	88	5808
69	4554	89	5874
70	4620	90	5940
71	4686	91	6006
72	4752	92	6072
73	4818	93	6138
74	4884	94	6204
75	4950	95	6270
76	5016	96	6336
77	5082	97	6402
78	5148	98	6468
79	5214	99	6534
80	5280	100	6600

55.9
42.5
13.4

559
268
82.7

Chains		
1	1	Sts from 25 to 30th
2	2	Columbia today to
3	3	Old Town
4	4	L + T Co
5	5	
6	6	
7	7	
8	8	
9	9	
10	10	
11	11	
12	12	
13	13	
14	14	
15	15	
16	16	
17	17	
18	18	
19	19	
20	20	

18.57
73
380
380
380
13987
1340
587

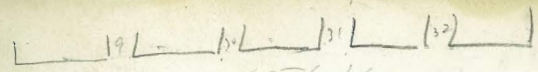
189 | 520 | 2645
378
1220
1134
860
756
104

280
1400

2645
14
10580
2645
37030

104.33
3.703
108.033
.1058
108.1388
7406
108.879

529
2116
7406

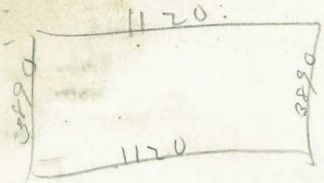


65616
3.83
28
59111

180

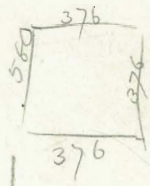
2400
240
2640

45.5
42.5
3.0



50.2
45.5
4.7

283



1094.9
221
170
360
230

10739
240
13131

2645

108.88
1058
118.9858
2645
793
109.32967935

1.59
241

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

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

O. N. SANFORD,
County Surveyor.

OFFICE: Room 4, Young's
Block, Cor. Fifth and F Streets.

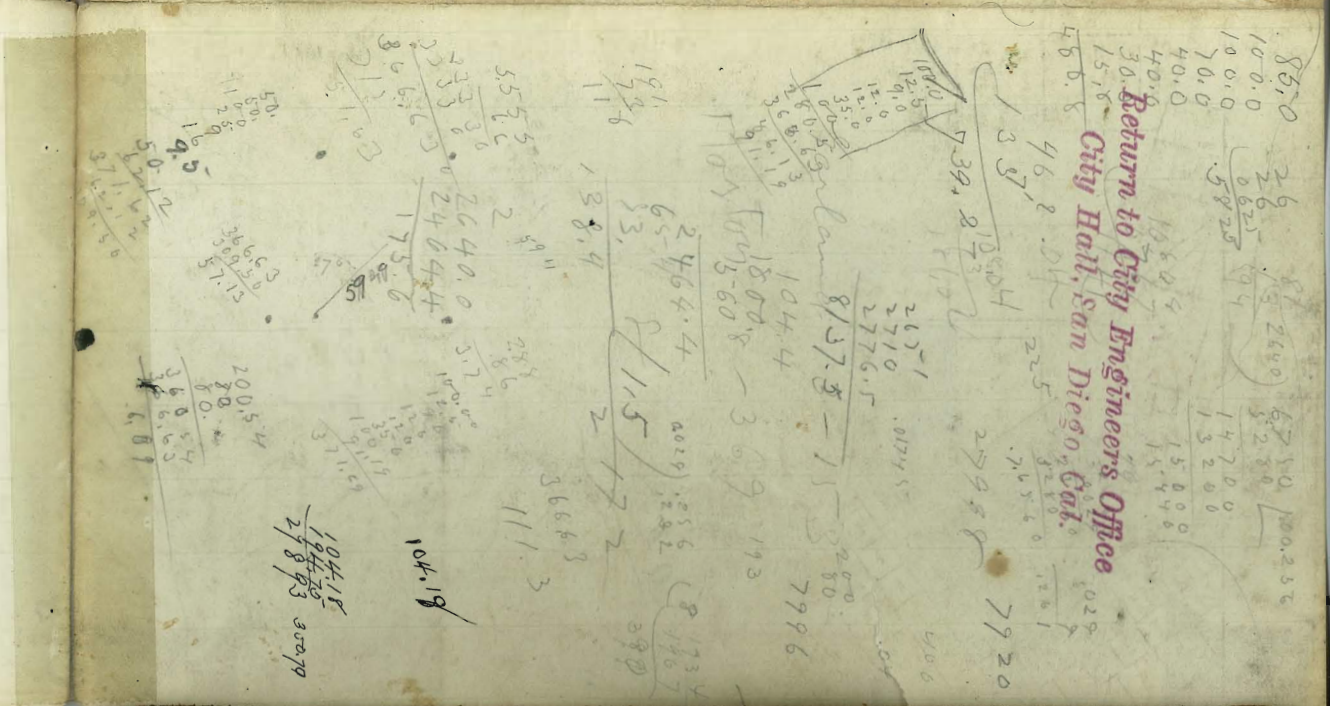
OFFICE OF

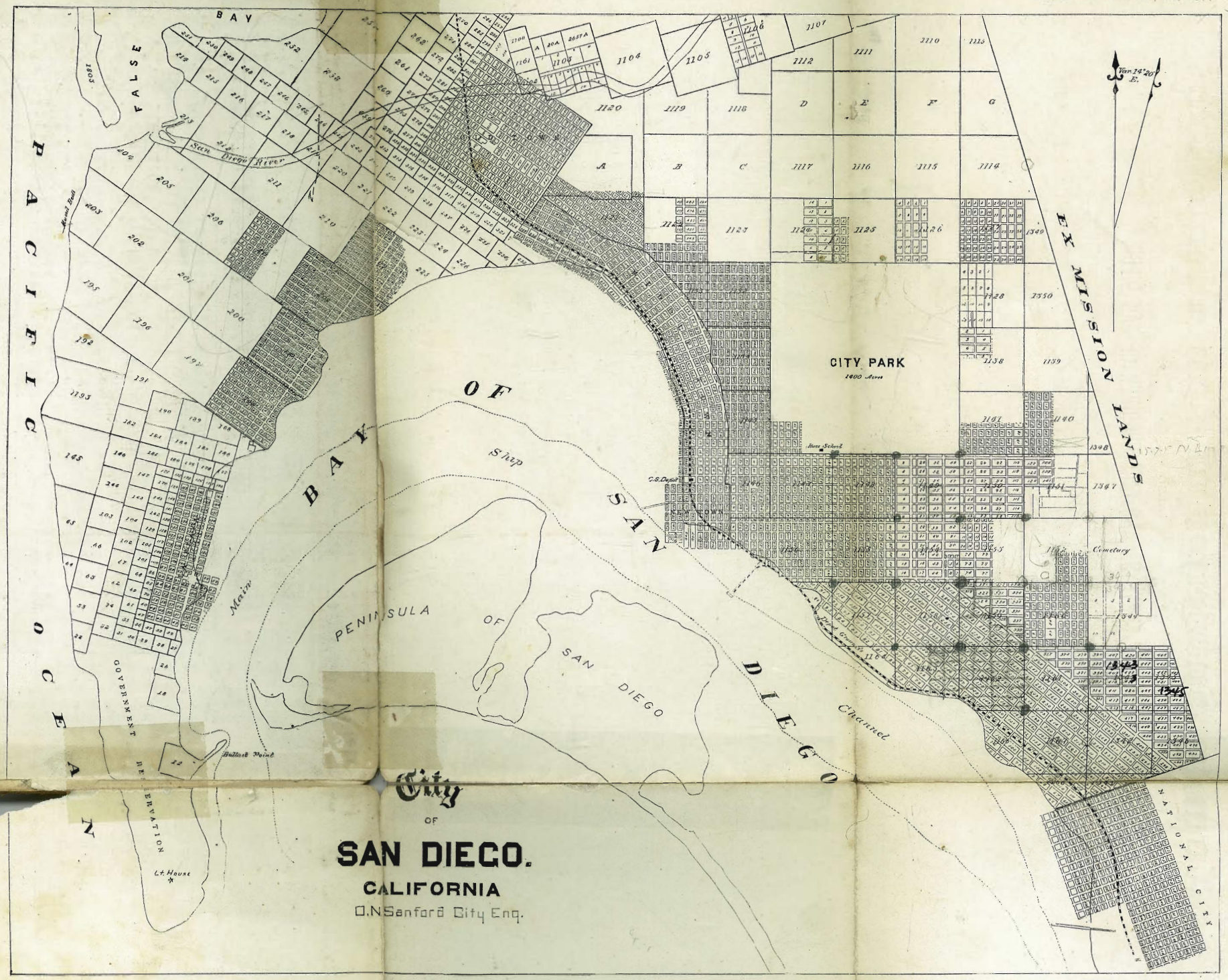
County Surveyor of San Diego Co.,

ALSO

U. S. DEPUTY SURVEYOR AND CITY ENGINEER OF SAN DIEGO.

San Diego, Cal., ... 188



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

corners marked black are standing