TIE POINT Book 1

T.P. 1

OLD TOWN

TIE POINTS

Cor. Feb. 10[illegible]

380

FIELD

T.P. BOOK #1 OLD TOWN

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2. Hancock: Hortensia to Greenwood		4-5
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6. S.D. Ave: Witherby to Greenwood		14-16
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Congress: Old Town to Hortensia
Hortensia: S.D. Ave to Congress
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T.P. BOOK #1 OLD TOWN

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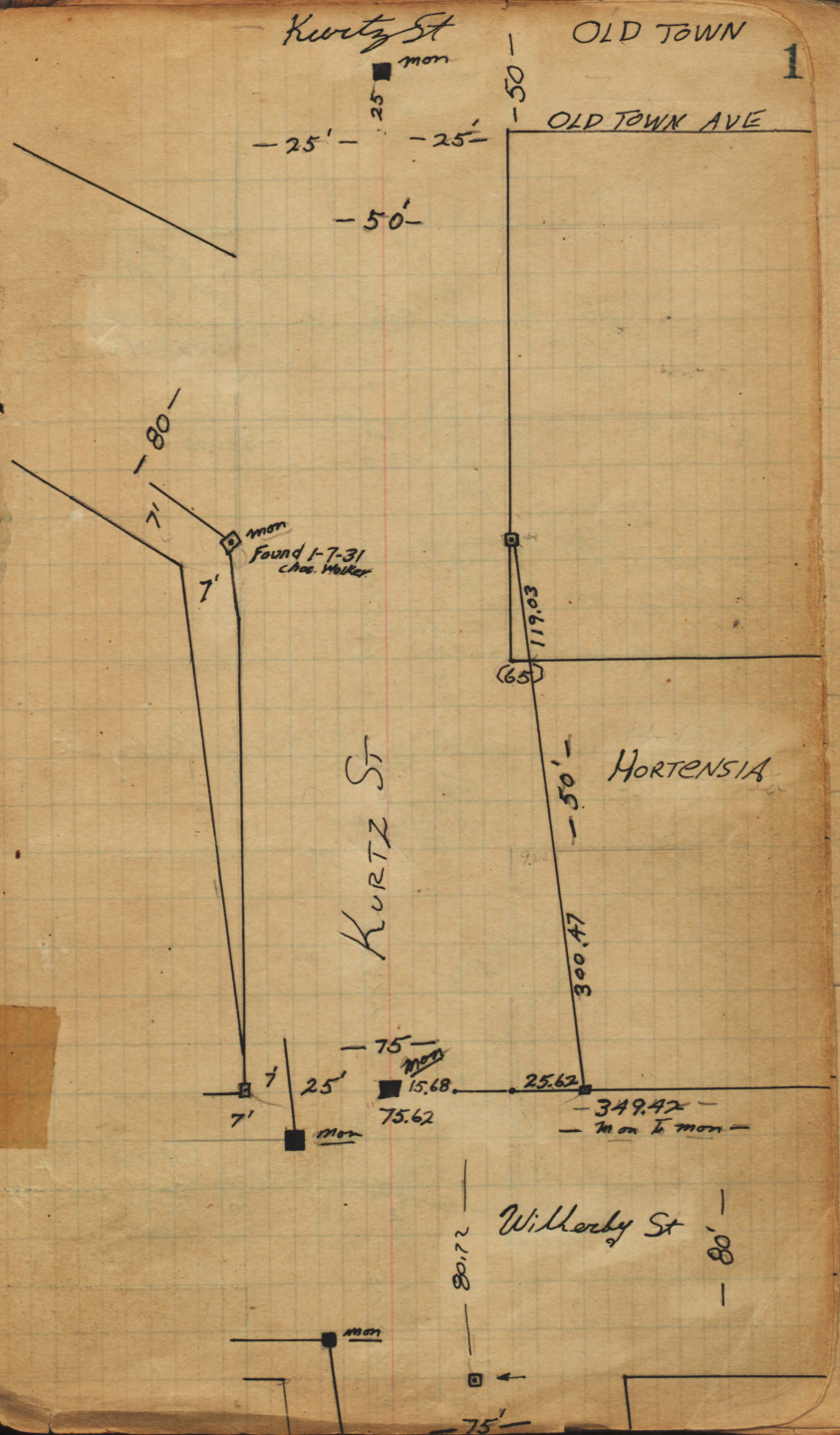
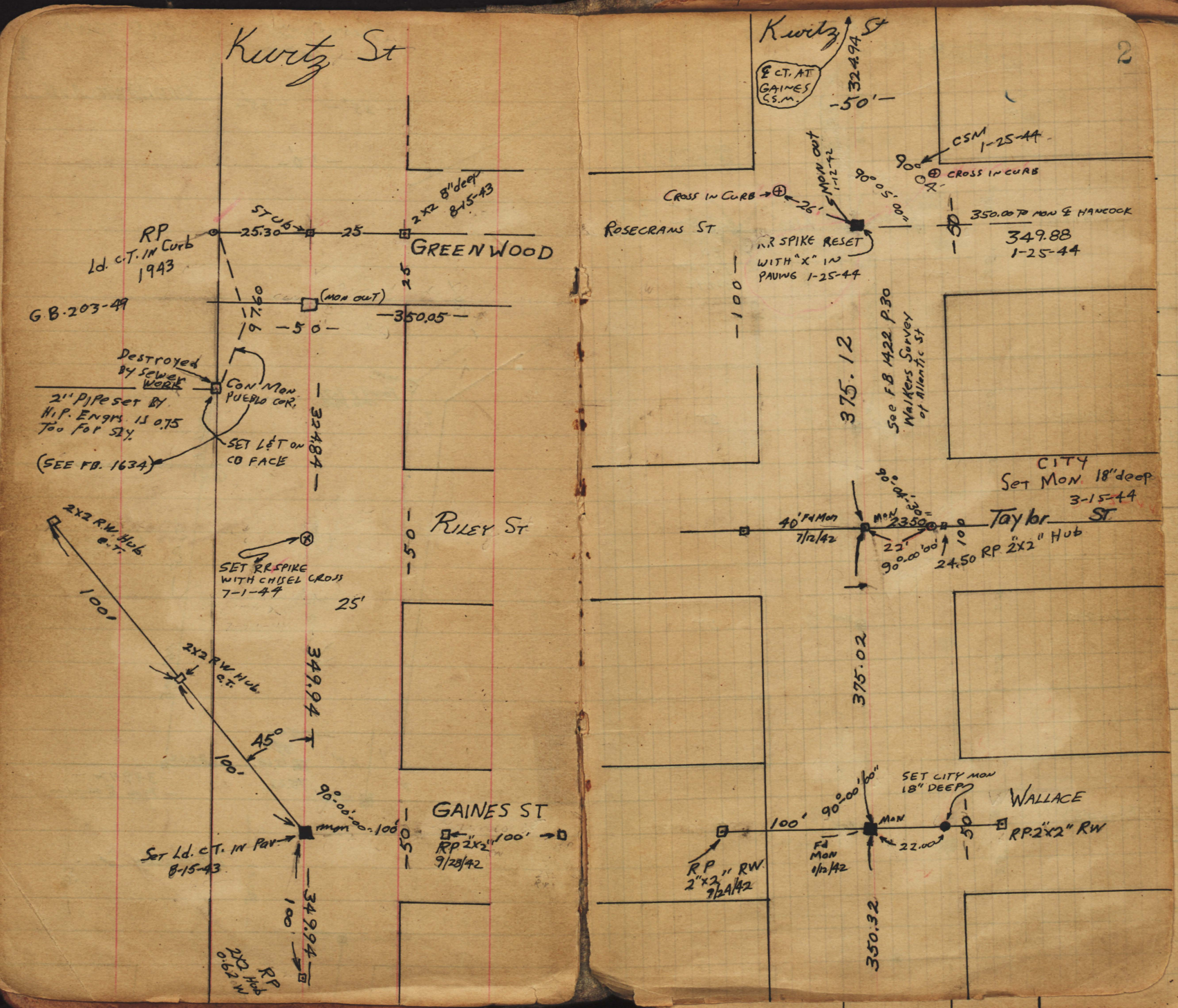
	Mildred: Azusa to Goshen	
	Gaines: Azusa to Goshen	
	Alameda: Gaines to Ruby	
	Benecia: Gaines to Ruby	

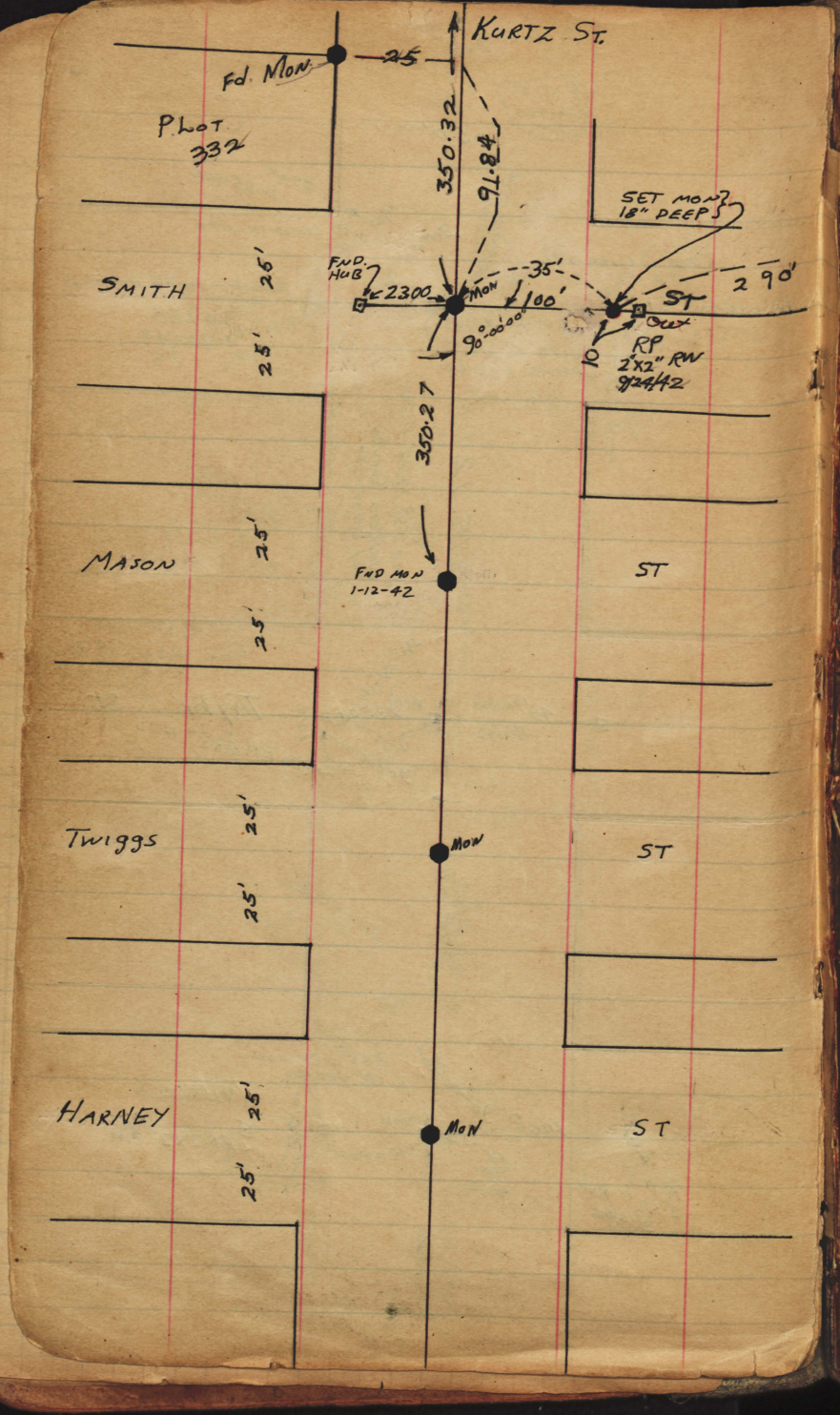
17.5
5.5
23.0

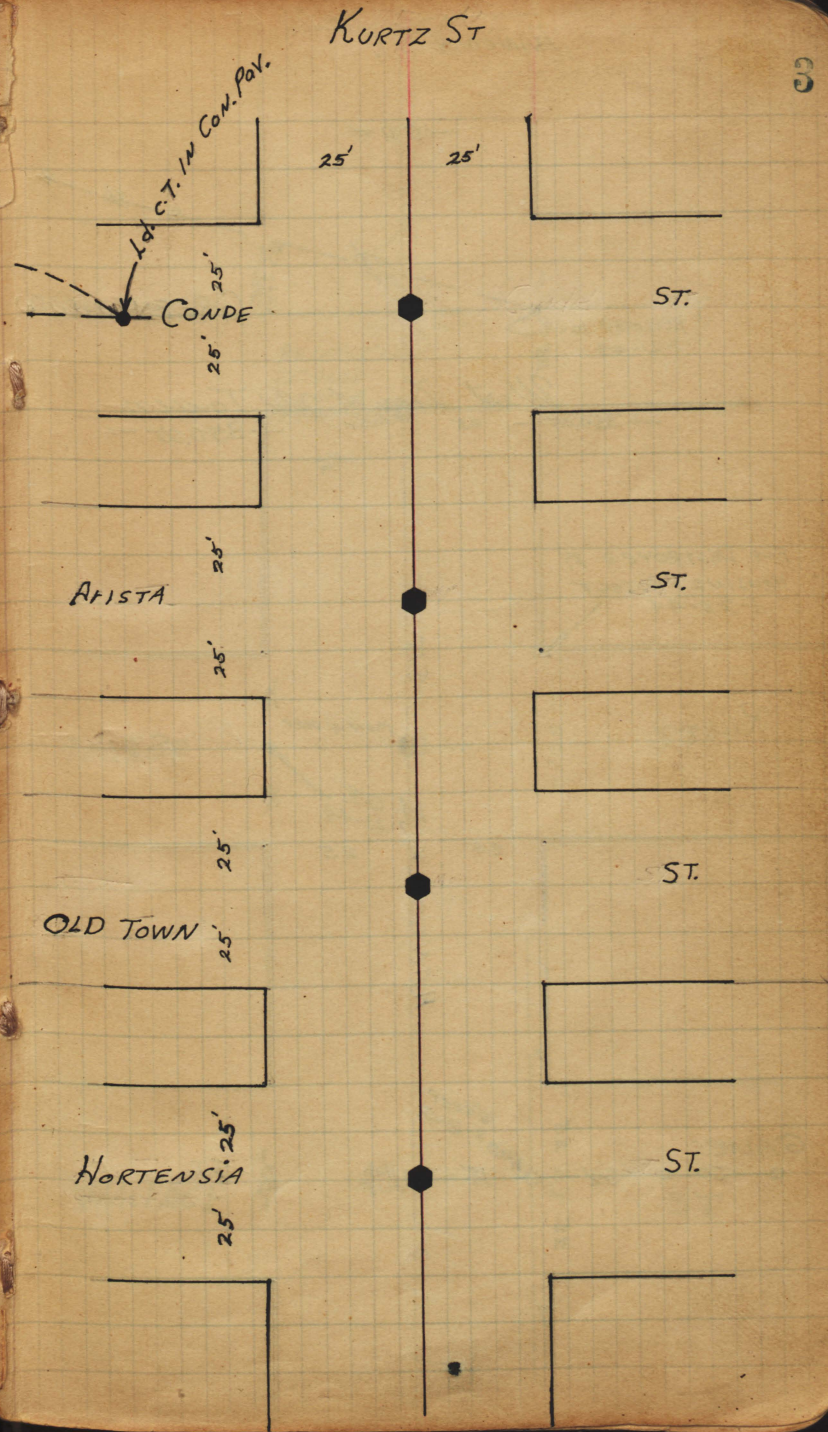
3617.0
30.25
6,145

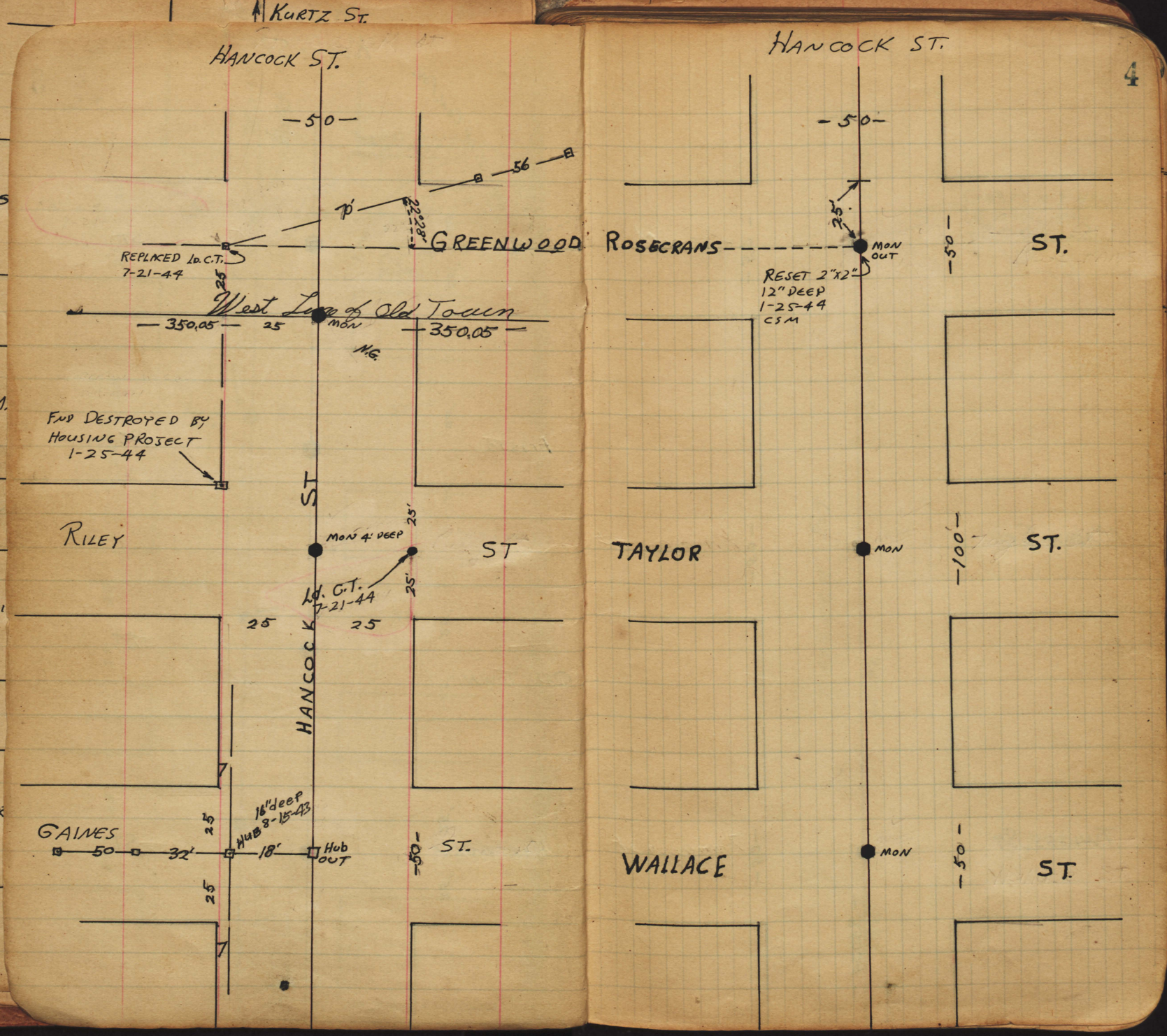
6160
21
3660

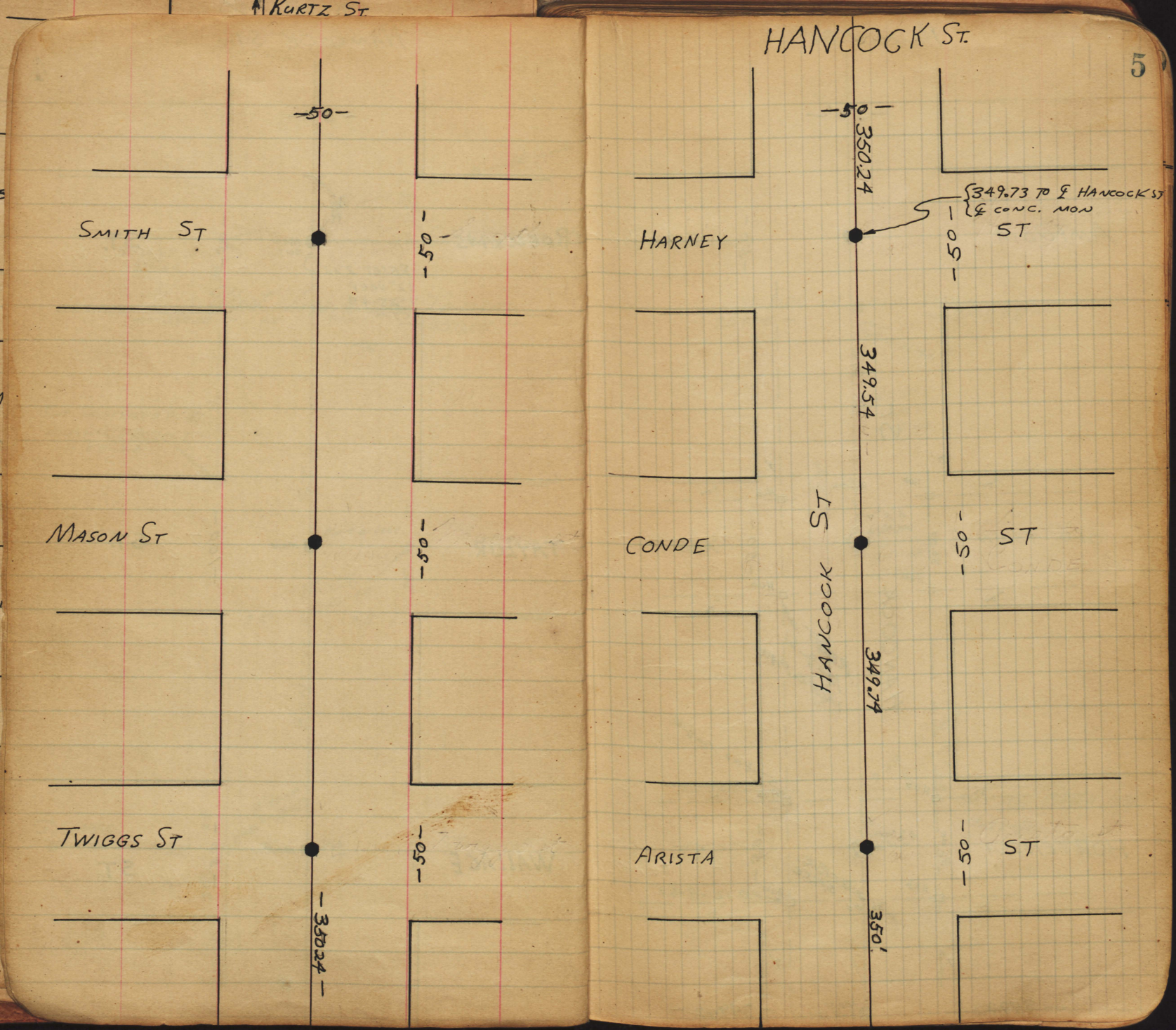

Kurtz St
mon
OLD TOWN
1
25'
50'
OLD TOWN AVE
25'
25'
50'
80'
7'
7'
mon
Found 1-7-31
Chas. Weller
119.03
65
KURTZ ST
50'
HORTENSIA
300.47
75'
7'
25'
7'
mon
15.68
75.62
25.62
349.42
mon to mon
Willerby St
80'
80.12
mon
75'

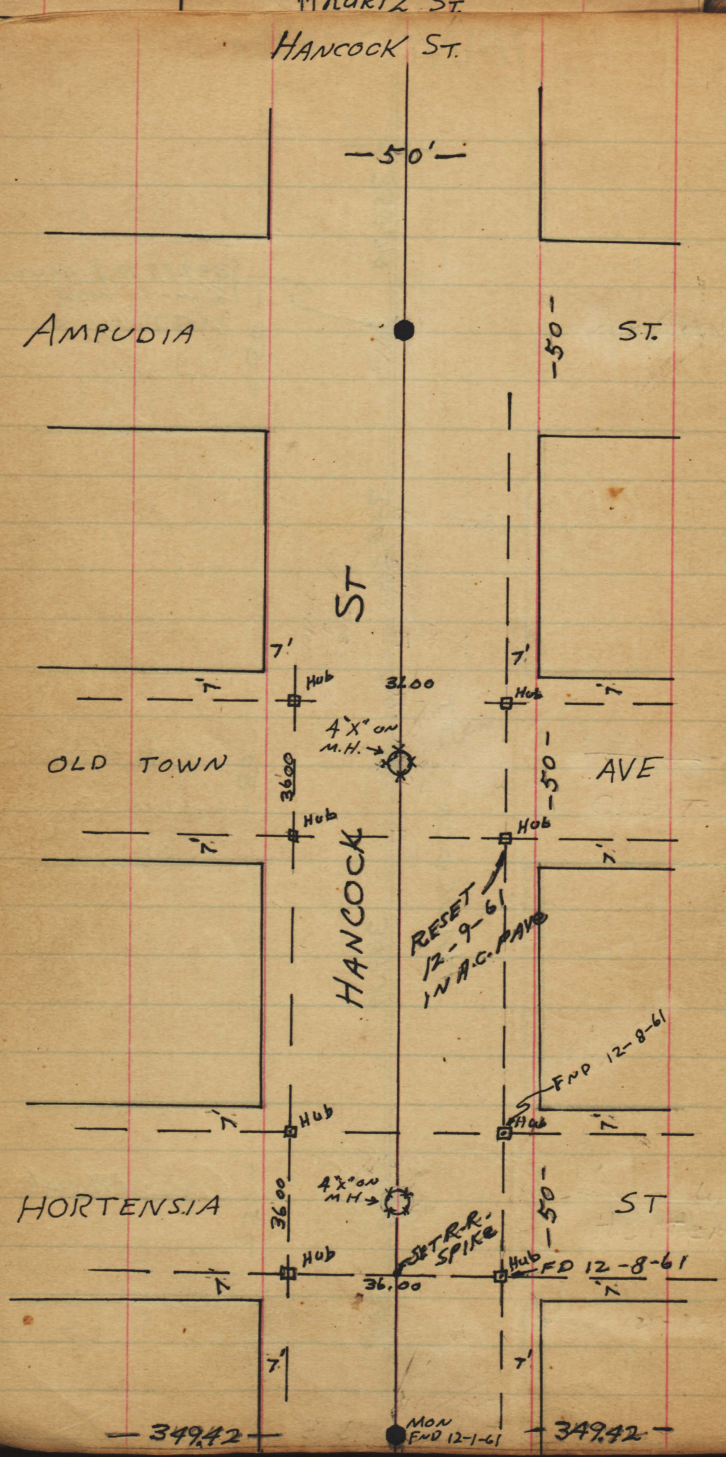

Kurtz St
RP
Ld. C.T. IN Curb
1943
25.30
STUB
25
2x2 8" deep 8-15-43
GREENWOOD
G.B. 203-49
(MON OUT)
350.05
50
Destroyed By Sewer Work
CON MON PUEBLO COR.
2" Pipe set By H.P. Engrs. is 0.75 Too For Sly.
SET L&T ON CB FACE
(SEE FB. 1634)
324.84
RILEY ST
2x2 R.W. Hub C.T.
100'
SET RR SPIKE WITH CHISEL CROSS 7-1-44
25'
2x2 RW Hub C.T.
349.94
45°
100'
90°-00'-00"
mon
100'
GAINES ST
RP 2"x2" 9/28/42
Set Ld. C.T. IN Pav. 8-15-43
349.94
100'
RP 2x2 Hub 0.62 W
Kurtz St
℄ CT. AT GAINES C.S.M.
324.94
50'
CSM 1-25-44
90°
CROSS IN CURB
CROSS IN CURB
26'
MON OUT 1-12-42
90°-05'-00"
ROSECRANS ST
RR SPIKE RESET WITH "X" IN PAVING 1-25-44
350.00 TO MON ℄ HANCOCK
349.88
1-25-44
100
375.12
See FB 1422 P.30 Walkers Survey of Atlantic St
CITY
Set MON 18" deep
3-15-44
40' Fd Mon 7/12/42
MON
23.50
90°-04'-30"
22'
90°-00'-00"
24.50 RP 2"x2" Hub
Taylor ST
375.02
SET CITY MON 18" DEEP
WALLACE
100'
90°-00'-00"
MON
22.00
RP 2"x2" RW
Fd MON 1/12/42
RP 2"x2" RW 9/24/42
350.32

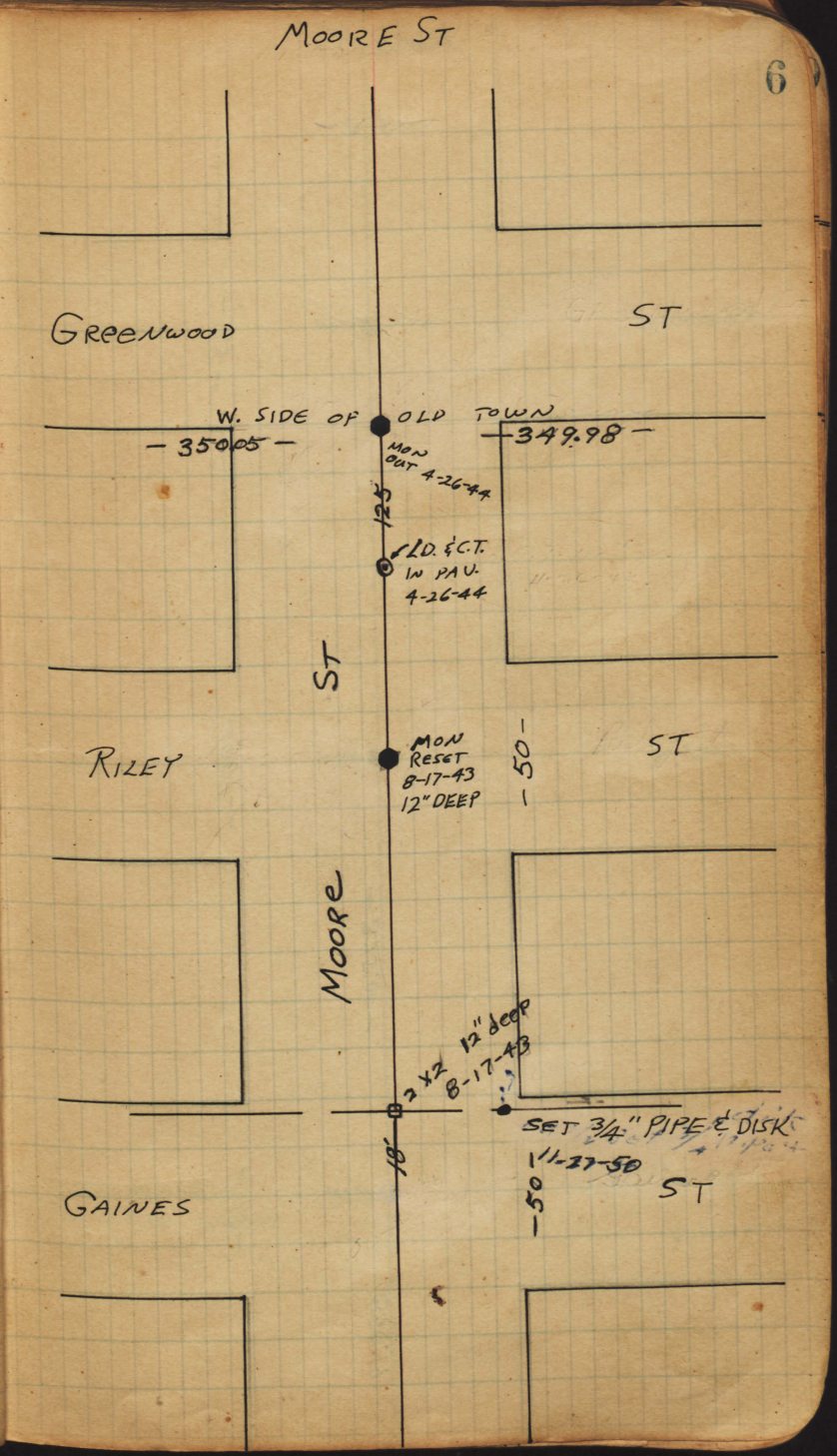

KURTZ ST.
Fd. MON
25
PLOT 332
350.32
91.84
SET MON 18" DEEP
SMITH
25'
FND. HUB
2300
MON
35'
100'
ST
290'
90°-00'-00"
OUT
10
RP 2"x2" RW 9/24/42
350.27
MASON
FND MON 1-12-42
ST
Twiggs
MON
ST
HARNEY
MON
ST

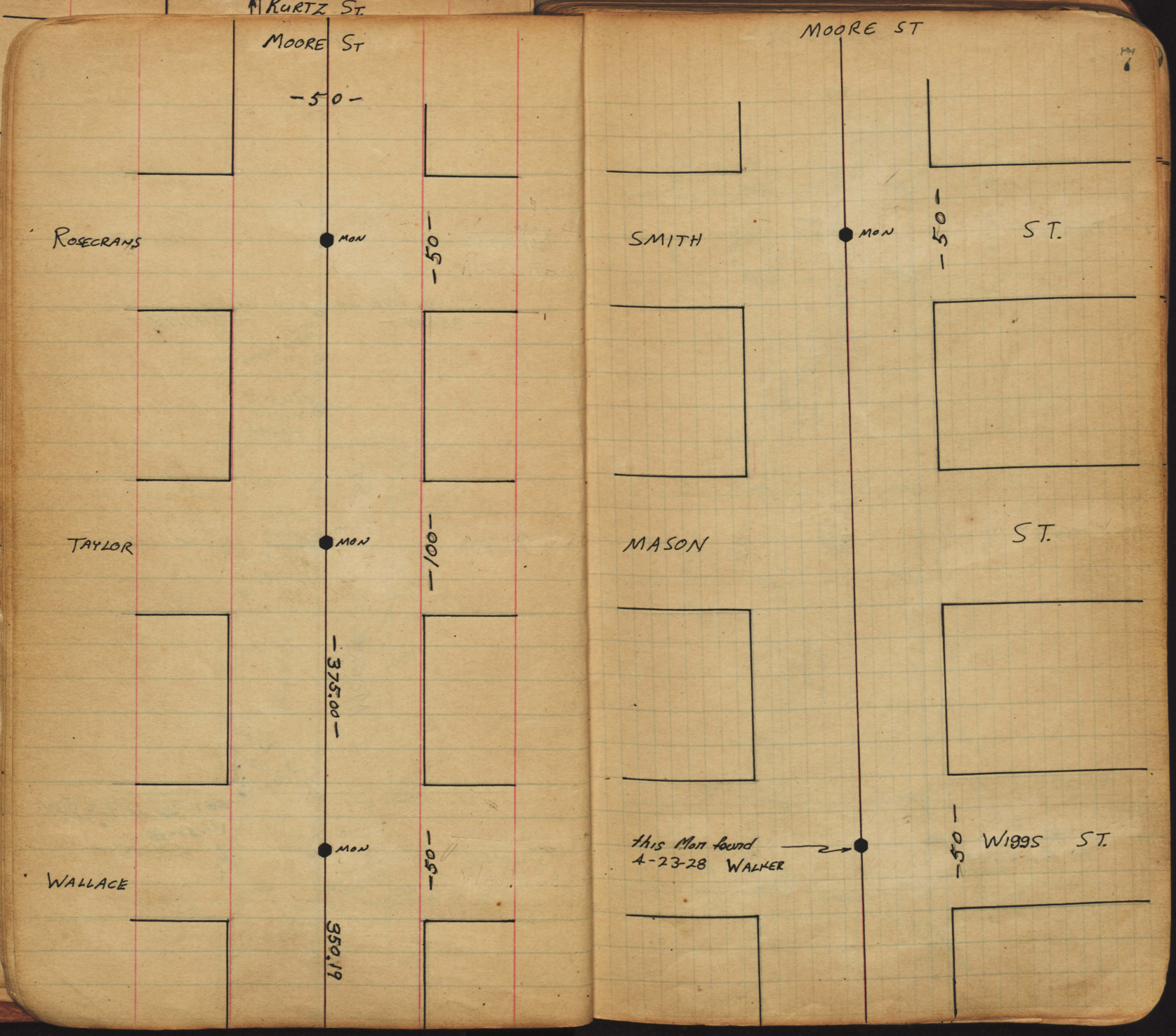

KURTZ ST
3
Ld. C.T. IN CON. PAV.
25'
CONDE
ST.
AFISTA
ST.
OLD TOWN
ST.
HORTENSIA
ST.

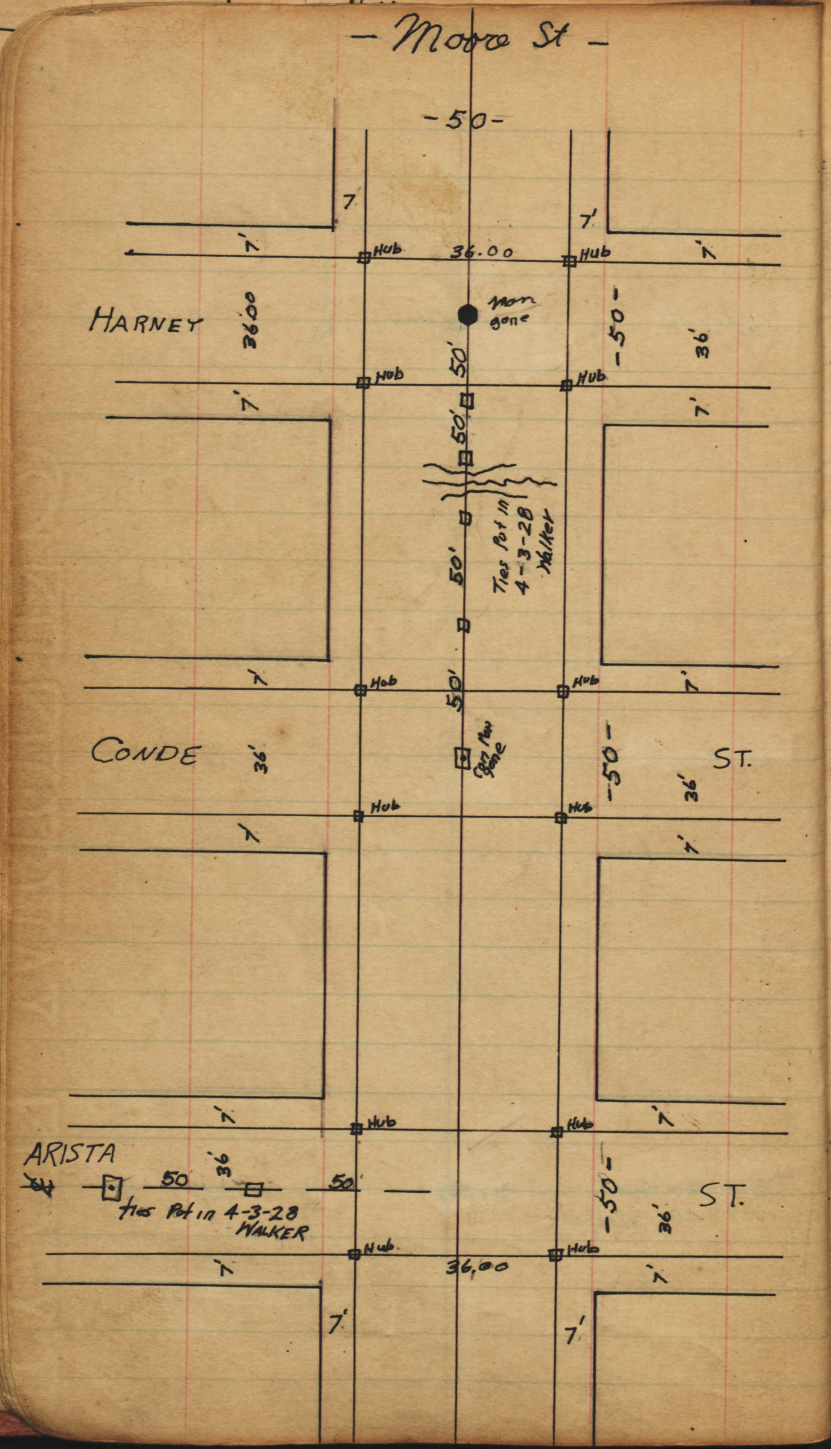

KURTZ ST.
HANCOCK ST.
-50-
56
70'
22°28'
GREENWOOD
REPLACED Ld. C.T.
7-21-44
25
West Line of Old Town
350.05
25
MON
350.05
N.G.
FND DESTROYED BY
HOUSING PROJECT
1-25-44
ST
RILEY
MON 4' DEEP
25'
ST
Ld. C.T.
7-21-44
25'
25
25
HANCOCK
GAINES
50
32'
16" deep
HUB 8-15-43
18'
Hub
OUT
25
25
-50-
ST.
HANCOCK ST.
-50-
25'
ROSECRANS
MON
OUT
RESET 2"x2"
12" DEEP
1-25-44
CSM
-50-
ST.
TAYLOR
MON
-100-
ST.
WALLACE
MON
-50-
ST.

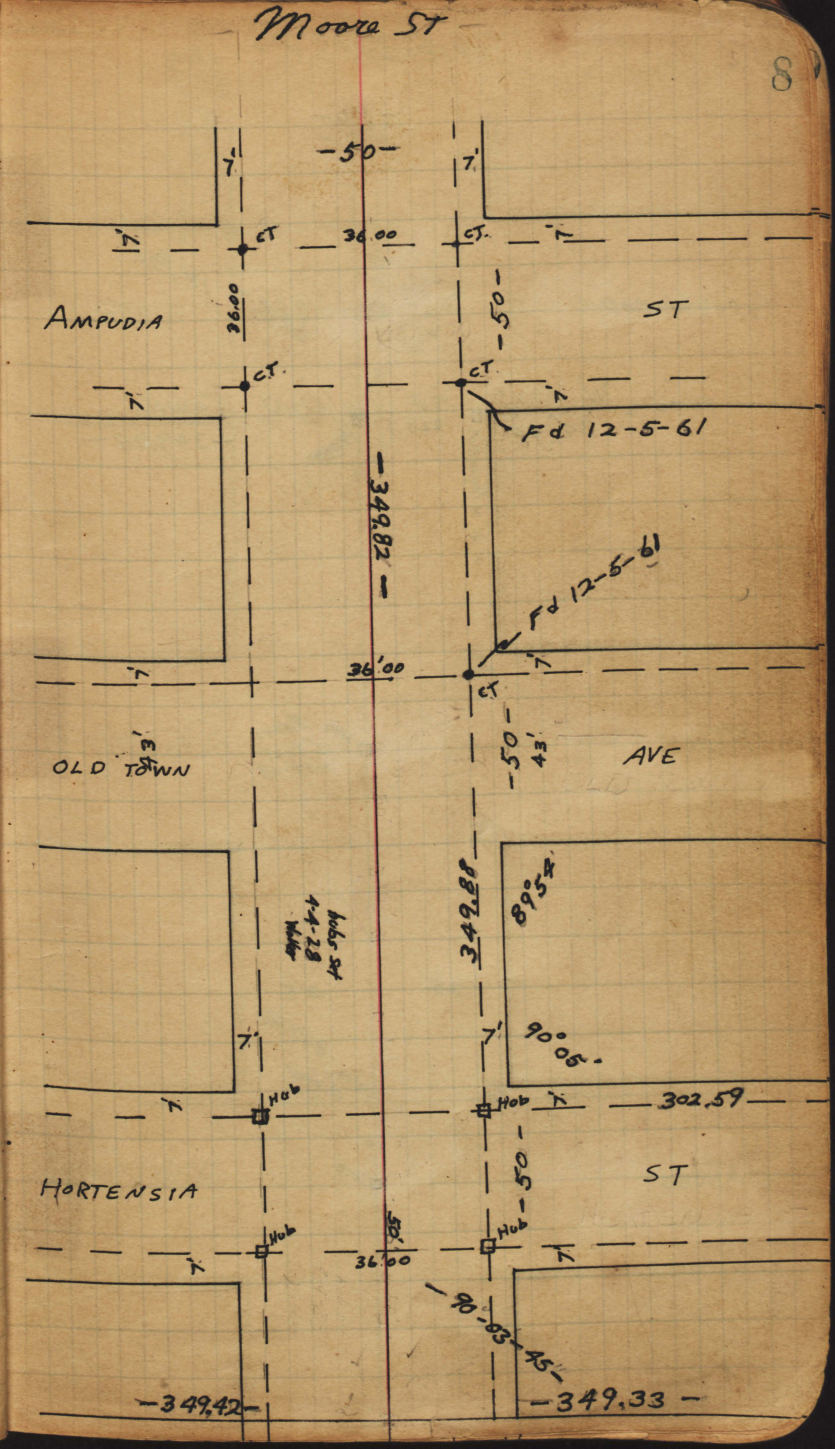

KURTZ ST.
HANCOCK ST.
SMITH ST
HARNEY ST
MASON ST
CONDE ST
TWIGGS ST
ARISTA ST
HANCOCK ST
50
350.24
349.73 TO ℄ HANCOCK ST & CONC. MON
349.54
349.74
350'

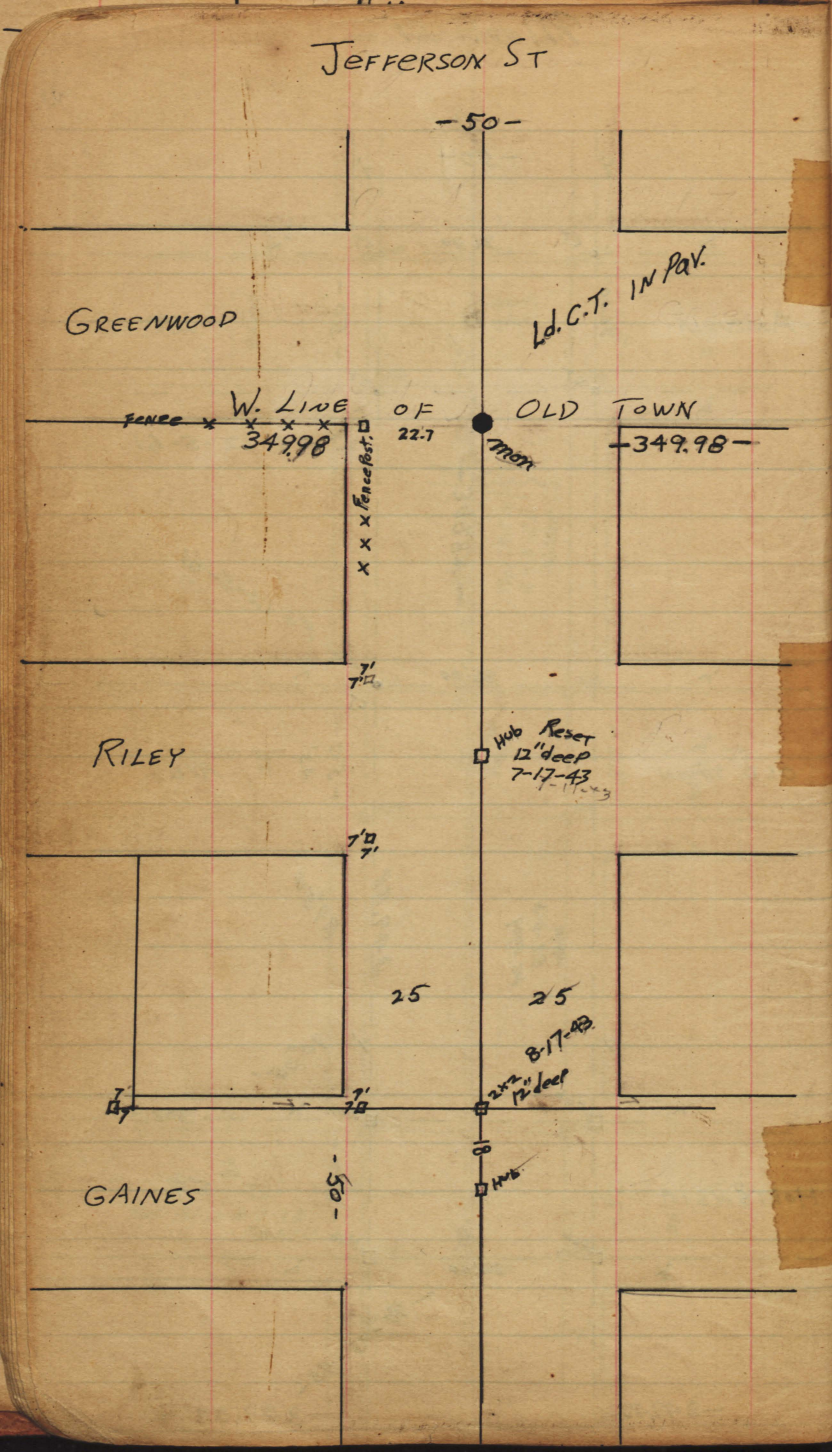

HANCOCK ST.
50'
AMPUDIA
ST.
50
ST
7'
Hub
31.00
4"X" on M.H.
OLD TOWN
AVE
36.00
HANCOCK
RESET 12-9-61 IN A.C. PAVE
FND 12-8-61
HORTENSIA
ST
4"X" on MH
SET R.R. SPIKE
FD 12-8-61
36.00
349.42
MON FND 12-1-61
349.42

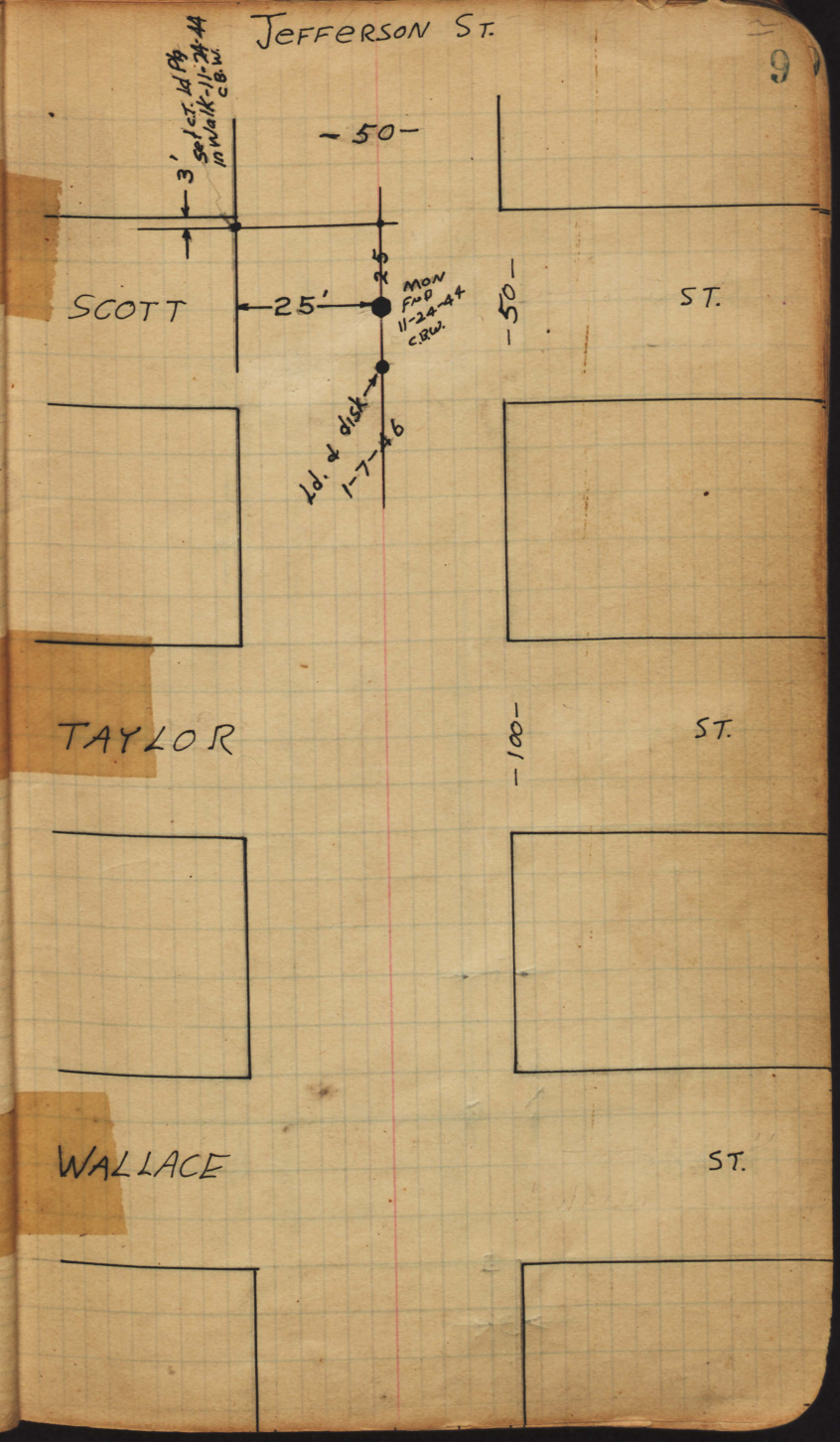

MOORE ST
GREENWOOD
ST
W. SIDE OF OLD TOWN
350.05
349.98
MON OUT 4-26-44
125
LD. & C.T. IN PAV. 4-26-44
ST
RILEY
ST
MON RESET 8-17-43 12" DEEP
50
MOORE
2 X 2 12" deep 8-17-43
SET 3/4" PIPE & DISK 11-27-50
18'
GAINES
ST

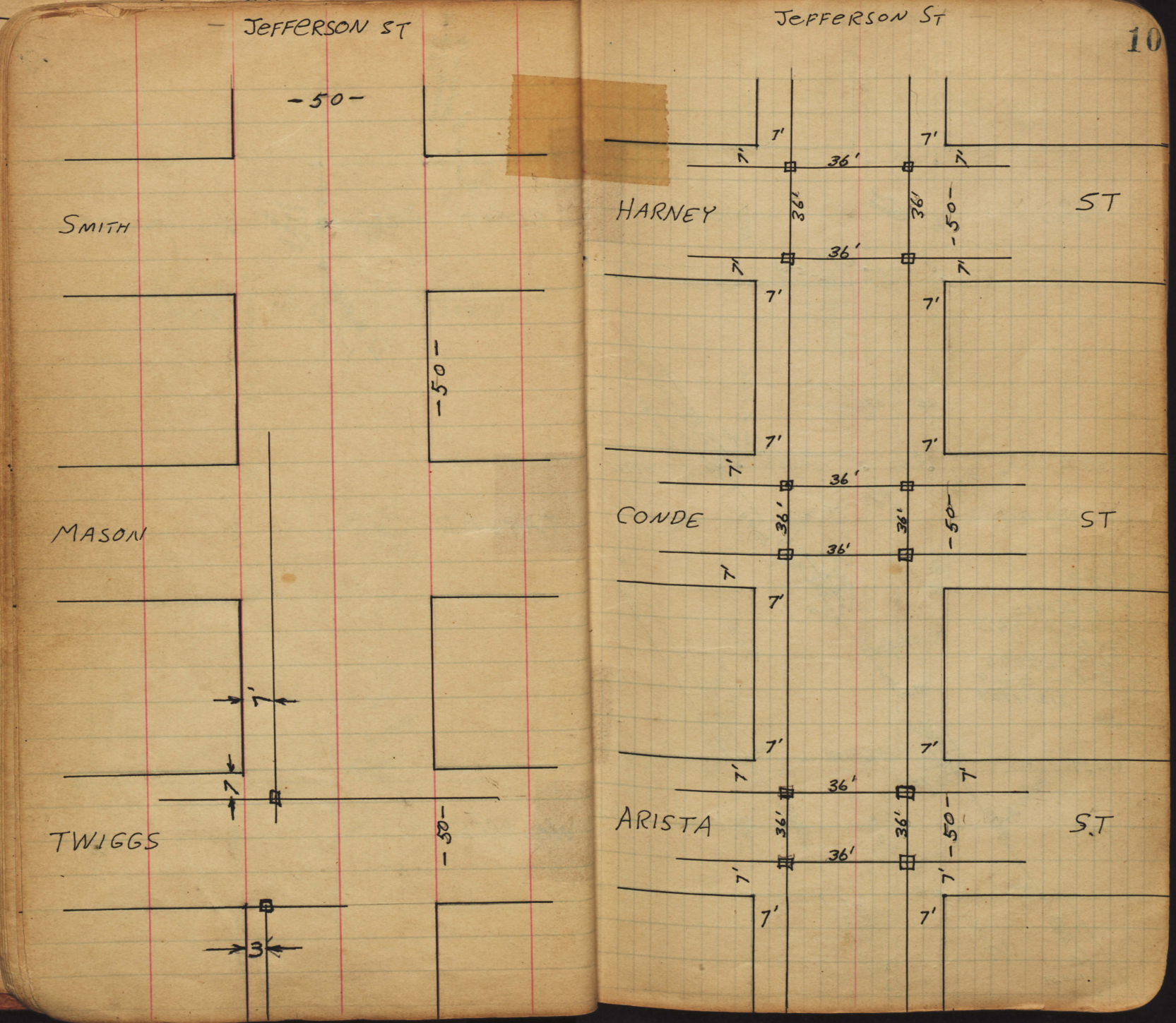

KURTZ ST.
MOORE ST
-50-
ROSECRANS
MON
-50-
TAYLOR
MON
-100-
-375.00-
MON
-50-
WALLACE
350.19
MOORE ST
SMITH
MON
-50-
ST.
MASON
ST.
this Mon found
4-23-28 WALKER
-50-
WIGGS ST.

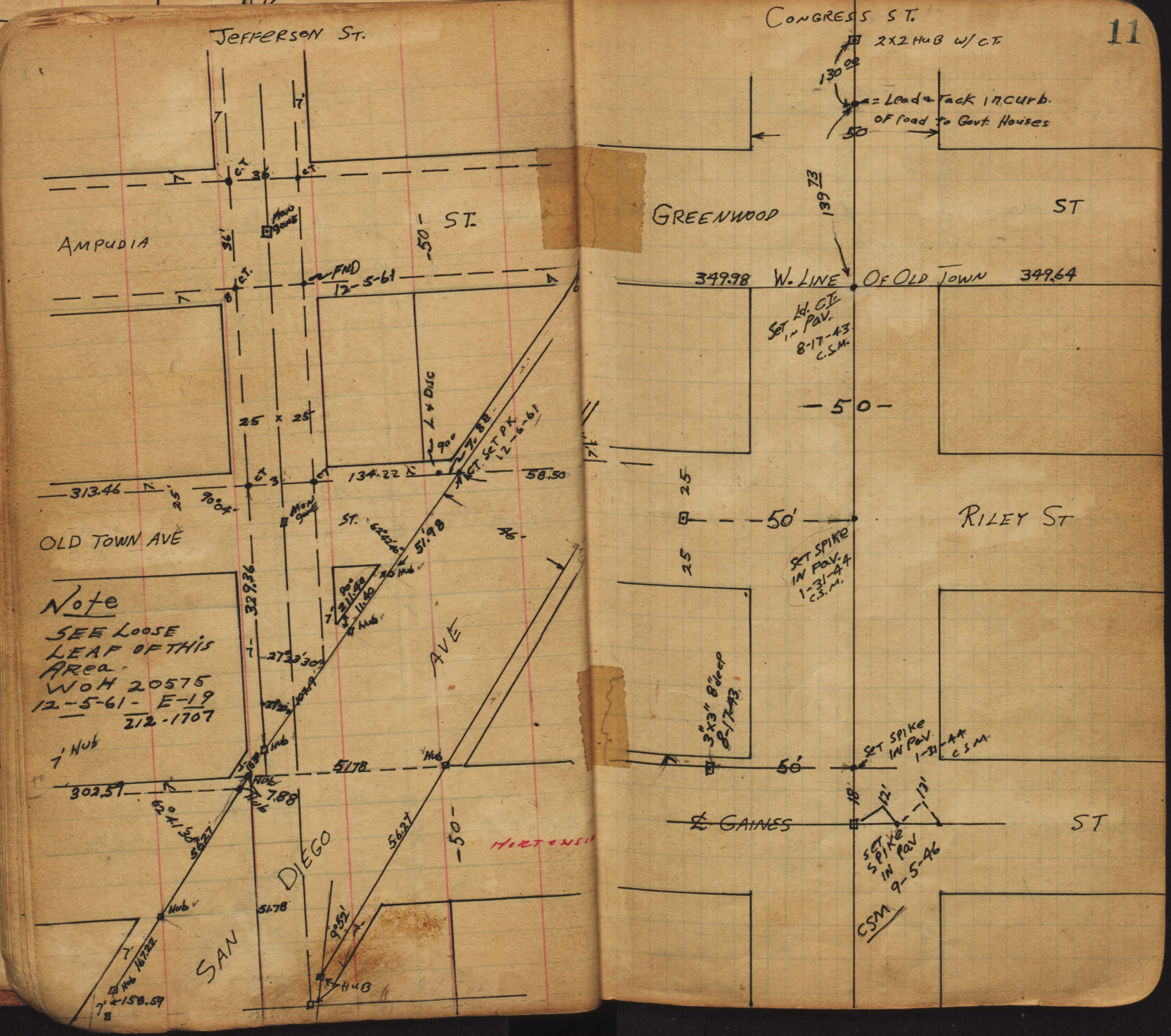

Moore St
-50-
HARNEY
36.00
Hub
Man gone
50'
Ties Pot in 4-3-28 Walker
CONDE
ST.
Can Man Gone
ARISTA
50
ties Pot in 4-3-28 WALKER
36.00

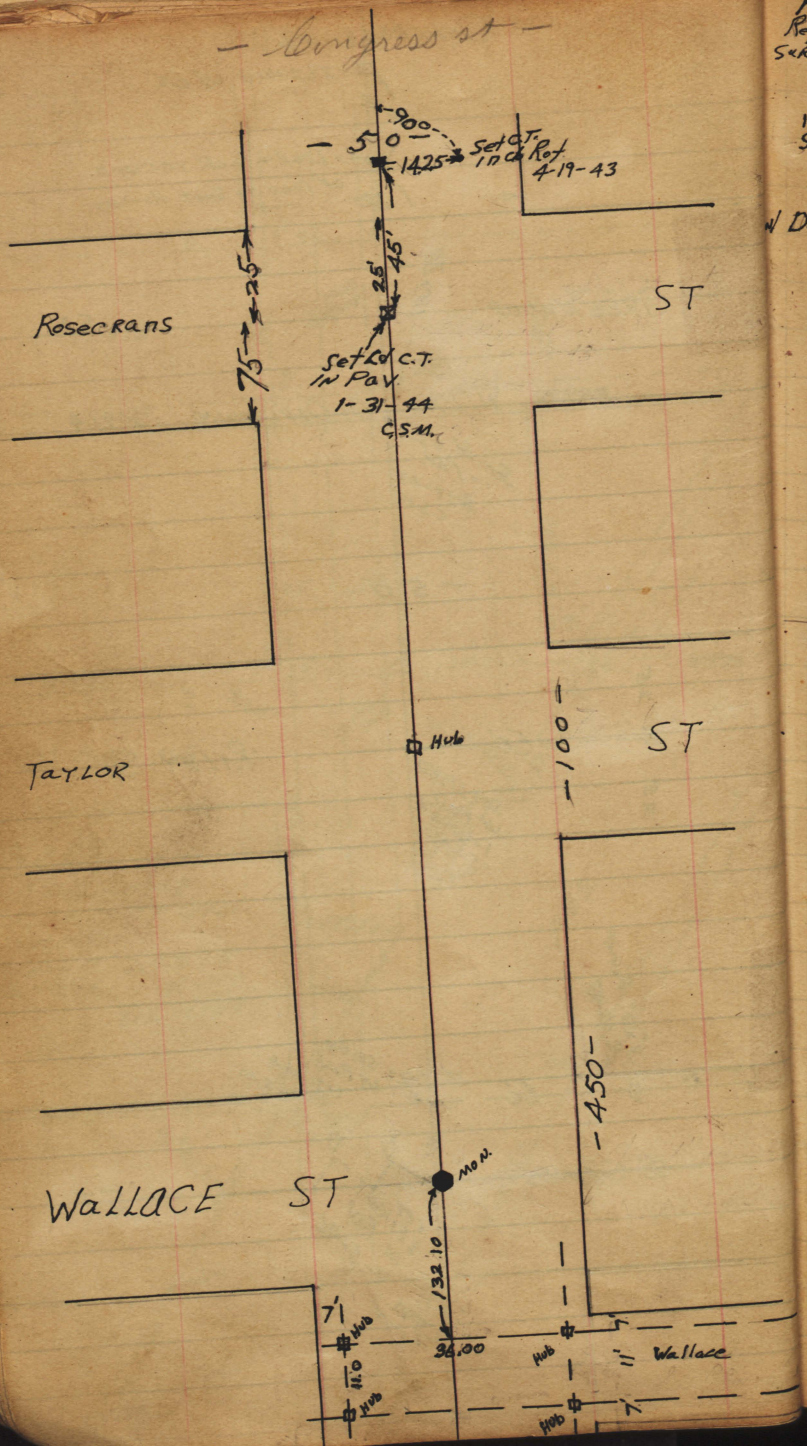

Moore St
-50-
AMPUDIA
ST
CT
36.00
Fd 12-5-61
-349.82-
OLD TOWN
AVE
43'
349.88
89°54'
90°05'
302.59
HORTENSIA
ST
-90-03-45-
-349.42-
-349.33-


JEFFERSON ST
-50-
GREENWOOD
Ld. C.T. IN PAV.
W. LINE OF OLD TOWN
FENCE
349.98
22.7
MON
-349.98-
Fence Post.
7'
7'
RILEY
Hub
Reset
12" deep
7-17-43
7'
7'
25
25
8-17-43
2x2
12" deep
7'
7'
GAINES
-50-
Hub

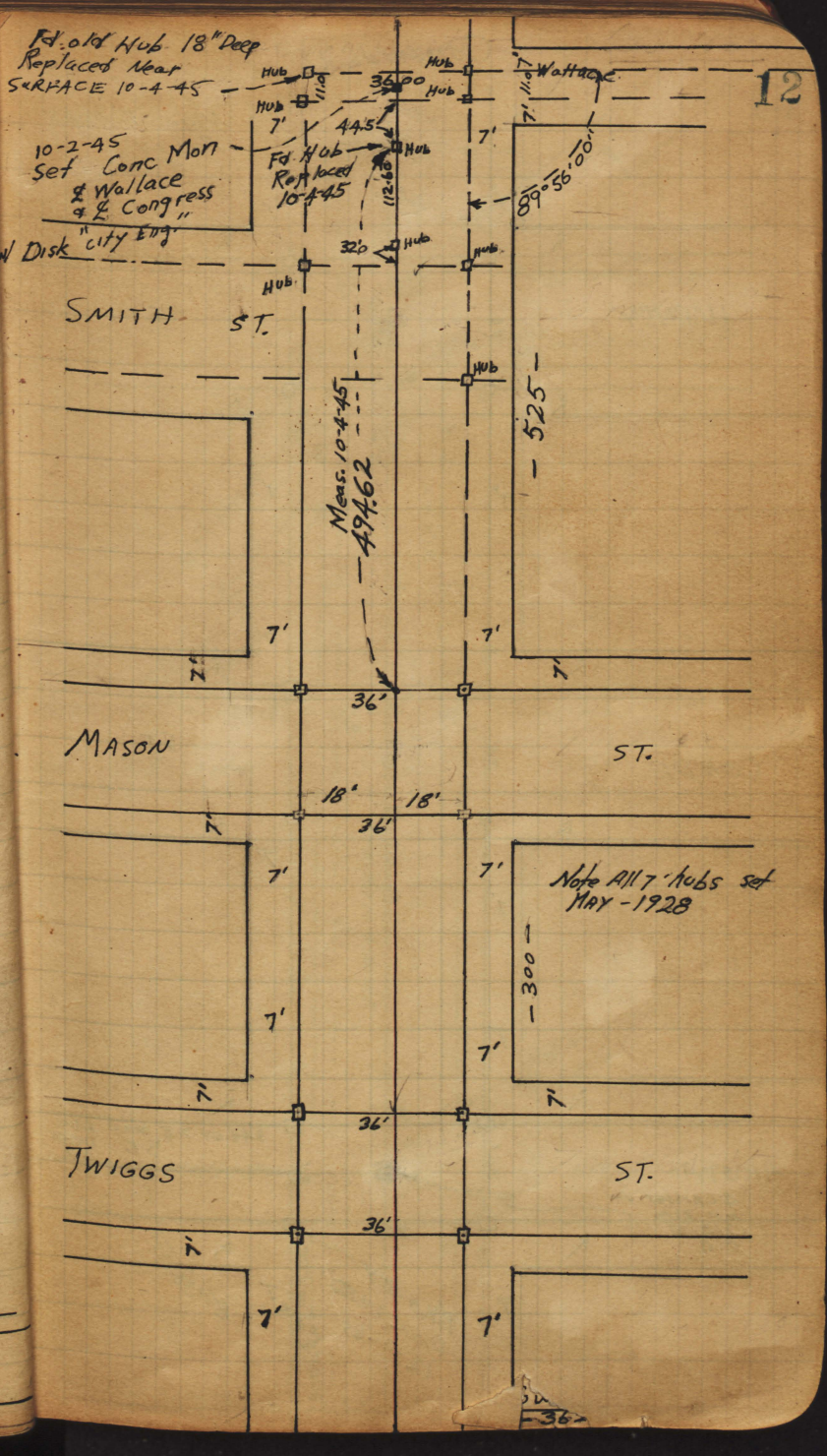

JEFFERSON ST.
3'
Set C.T. Ld Pg
in Walk-11-24-44
C.B.W.
-50-
SCOTT
25'
25
MON
FND
11-24-44
C.B.W.
-50-
ST.
Ld. & disk
1-7-46
TAYLOR
-100-
ST.
WALLACE
ST.


JEFFERSON ST
-50-
SMITH
-50-
MASON
7'
7'
-50-
TWIGGS
3'
JEFFERSON ST
7'
7'
7'
36'
HARNEY
ST
38'
38'
-50-
CONDE
ST
ARISTA
ST

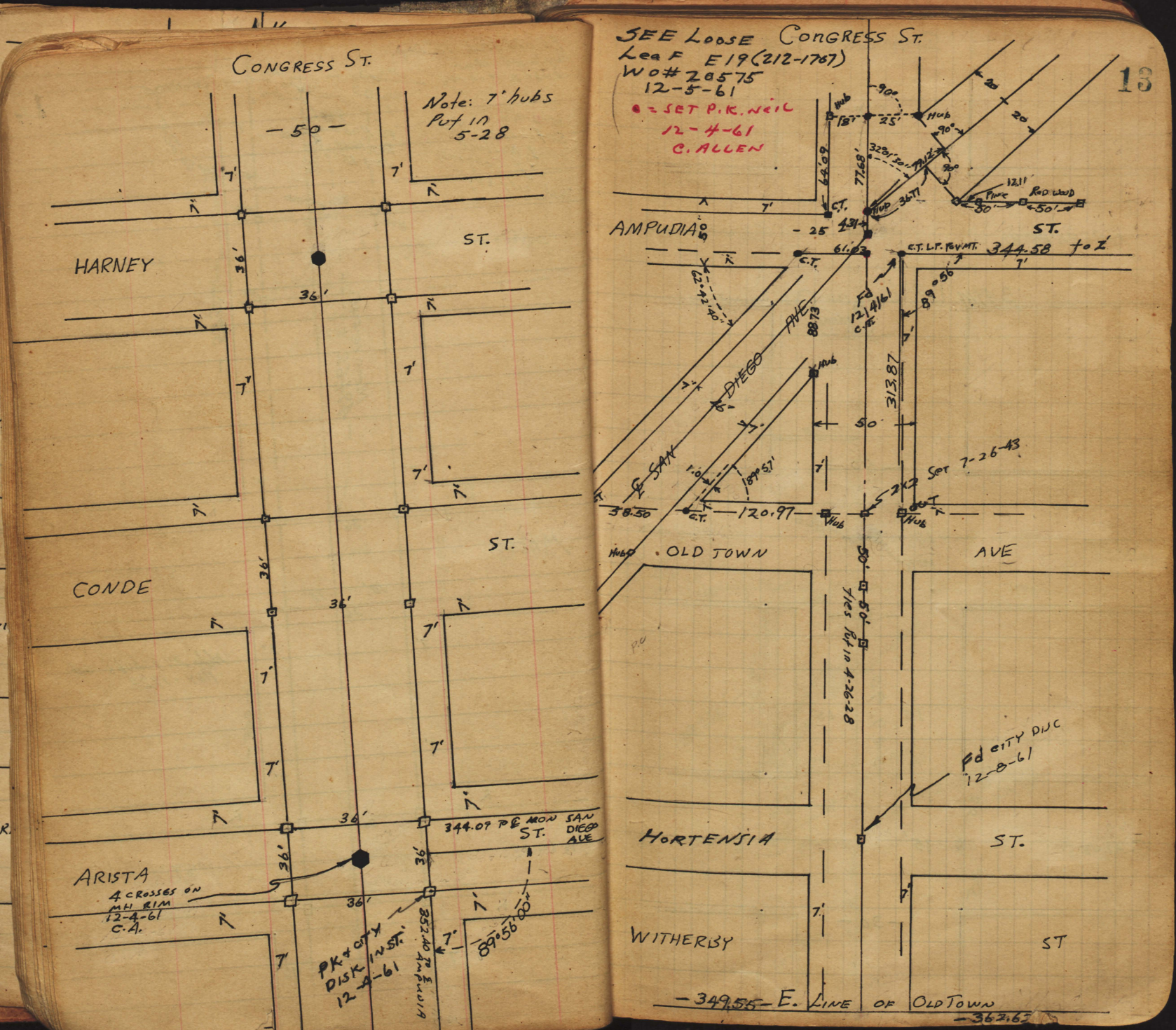

JEFFERSON ST.
AMPUDIA
ST.
OLD TOWN AVE
SAN DIEGO AVE
CONGRESS ST.
2X2 HUB W/ C.T.
= Lead & Tack in Curb of road to Govt. Houses
GREENWOOD
ST
W. LINE OF OLD TOWN
349.98
349.64
RILEY ST
GAINES
ST
Note
SEE LOOSE LEAF OF THIS AREA
WOH 20575
12-5-61 - E-19
212-1707
CSM

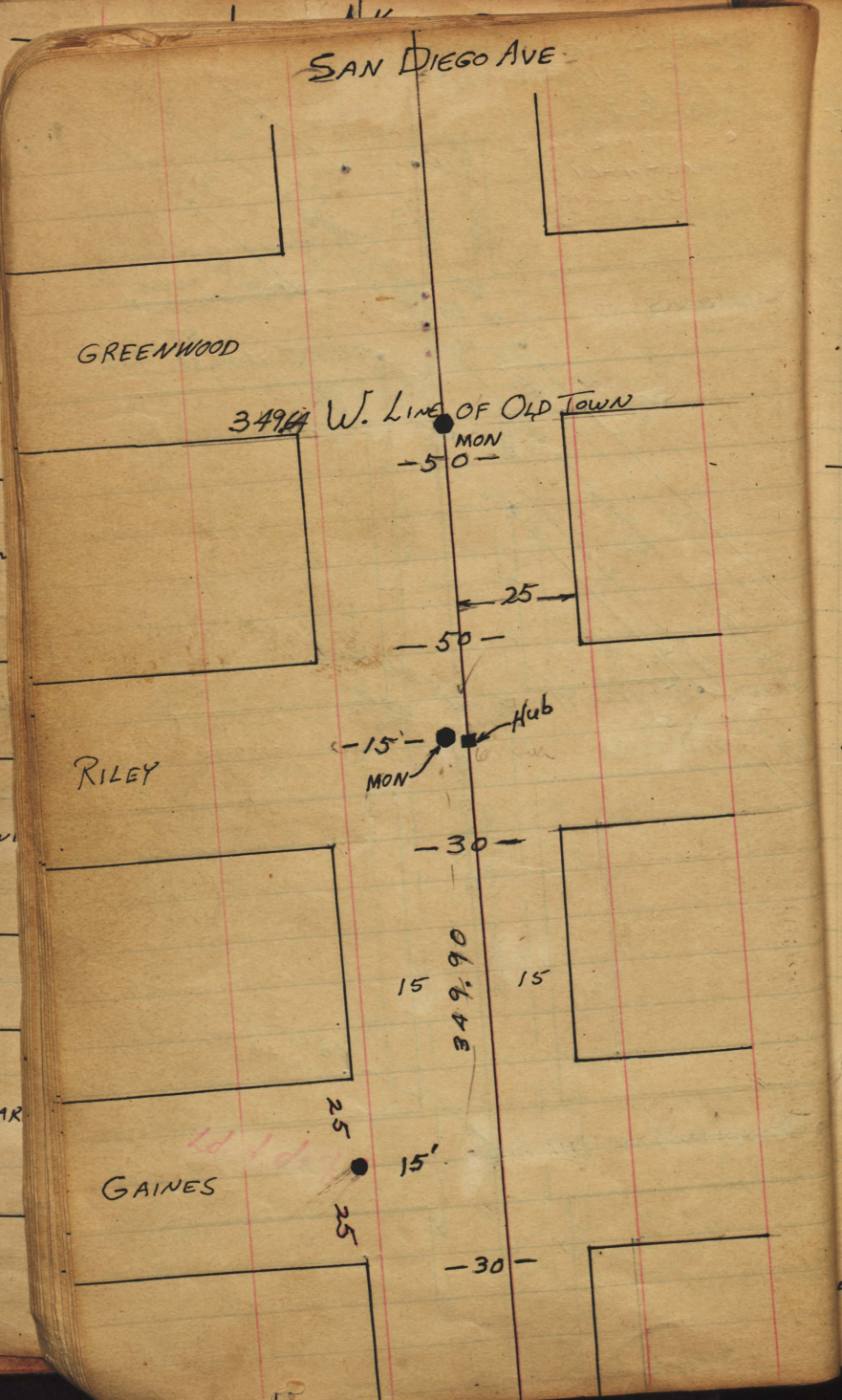


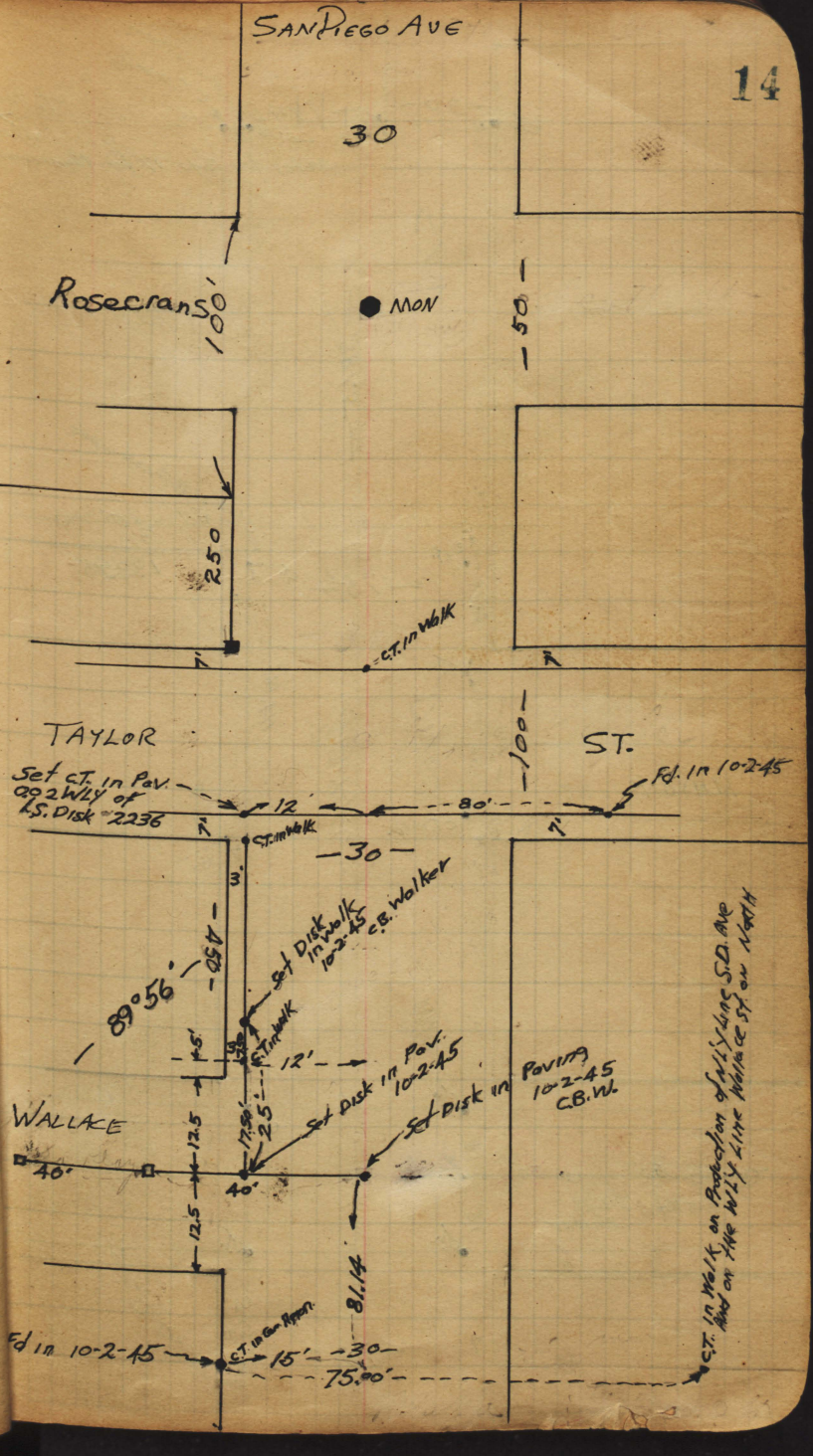
— Congress st —
900
50
14.25
Set C.T. in Ch Rot 4-19-43
25
45'
25'
75
Set Ld C.T. in Pav. 1-31-44 C.S.M.
Rosecrans
ST
Hub
100
ST
Taylor
450
Mon.
Wallace ST
132.10
7'
Hub
36.00
Hub
Wallace



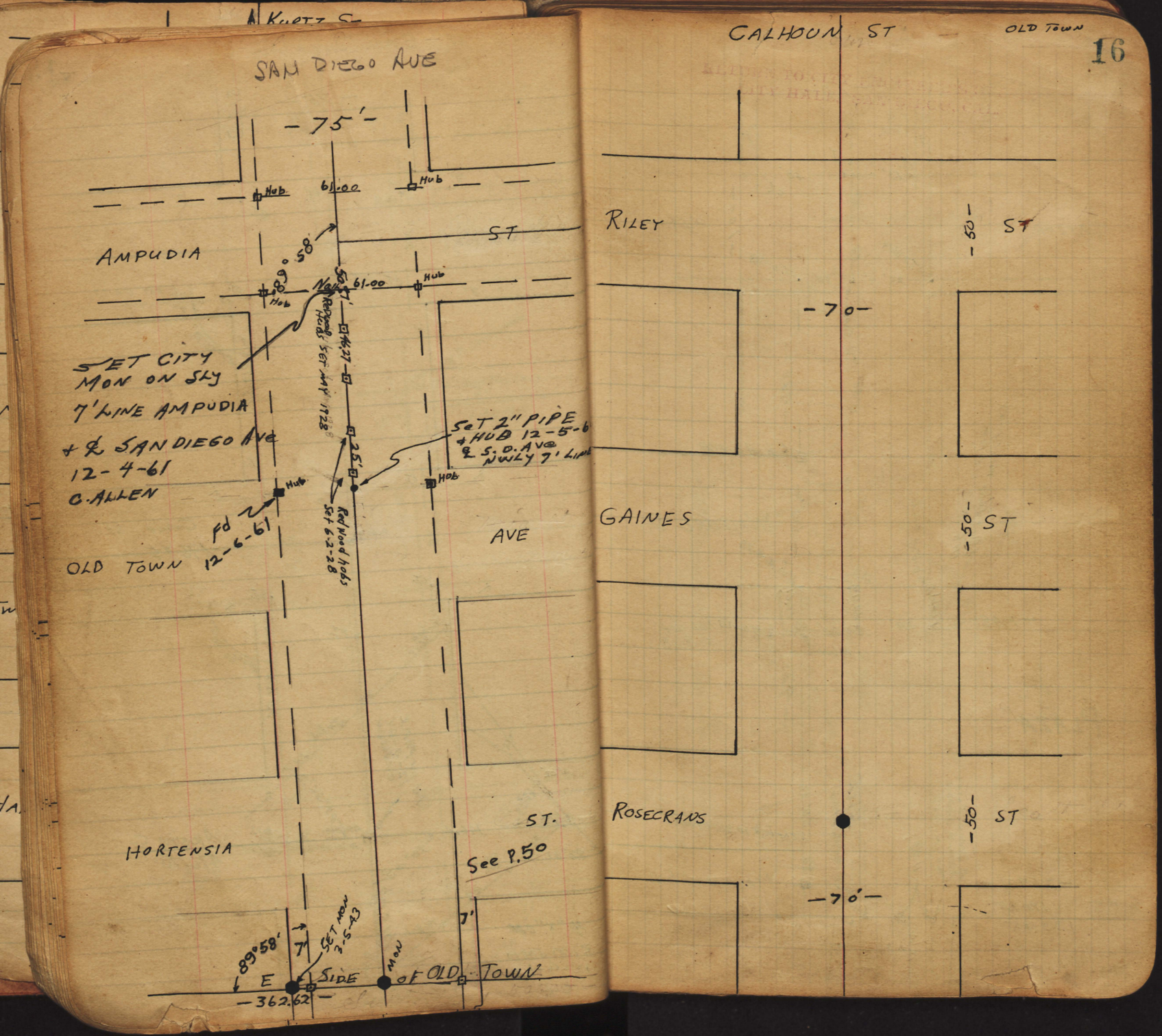
Fd. old Hub 18" Deep Replaced Near SURFACE 10-4-45
Hub
36.00
Wallace
10-2-45 Set Conc Mon ℄ Wallace & ℄ Congress
Fd. Hub Replaced 10-4-45
44.5
112.60
89°56'00"
w/ Disk "city Eng"
32.0
Hub
SMITH ST.
Meas. 10-4-45
494.62
525
7'
36'
MASON
ST.
18'
18'
Note All 7' hubs set MAY - 1928
300
TWIGGS
ST.

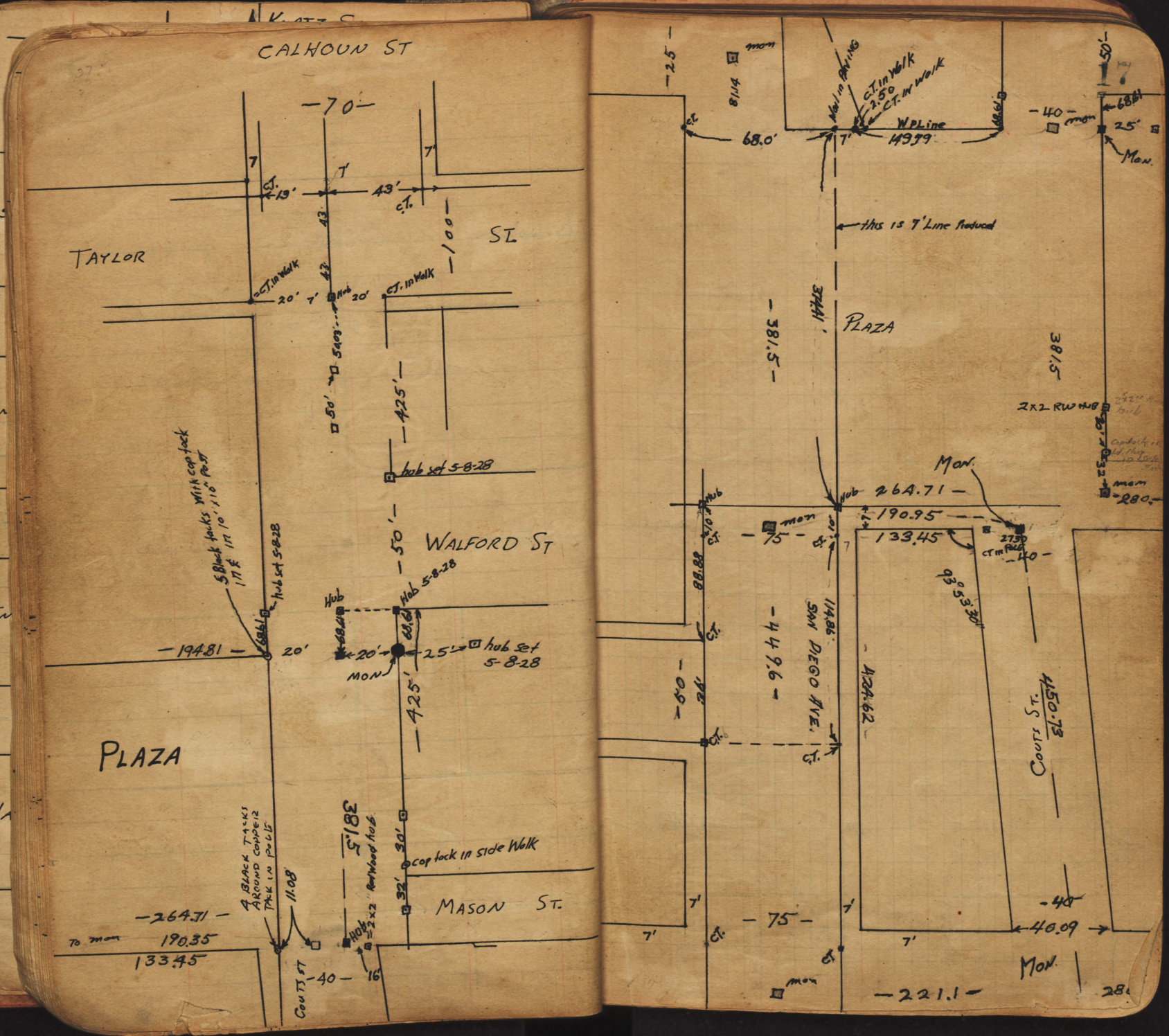

CONGRESS ST.
Note: 7' hubs Put in 5-28
-50-
HARNEY
ST.
CONDE
ST.
ARISTA
ST.
4 CROSSES ON MH RIM 12-4-61 C.A.
344.09 TO ℄ MON SAN DIEGO AVE
PK & CITY DISK IN ST. 12-4-61
352.40 TO ℄ AMPUDIA
89°56'00"
SEE LOOSE CONGRESS ST.
Lea F E19 (212-1767)
WO# 20575
12-5-61
● = SET P.K. NAIL
12-4-61
C. ALLEN
AMPUDIA
ST.
344.58 to 2'
C.T. L.P. FOV MT.
Fd 12/4/61 C.T.
DIEGO AVE
℄ SAN
313.87
Set 7-26-43
120.97
OLD TOWN
AVE
Ties Put in 4-26-28
Fd CITY DISC 12-8-61
HORTENSIA
ST.
WITHERBY
ST
-349.55- E. LINE OF OLD TOWN
-362.65

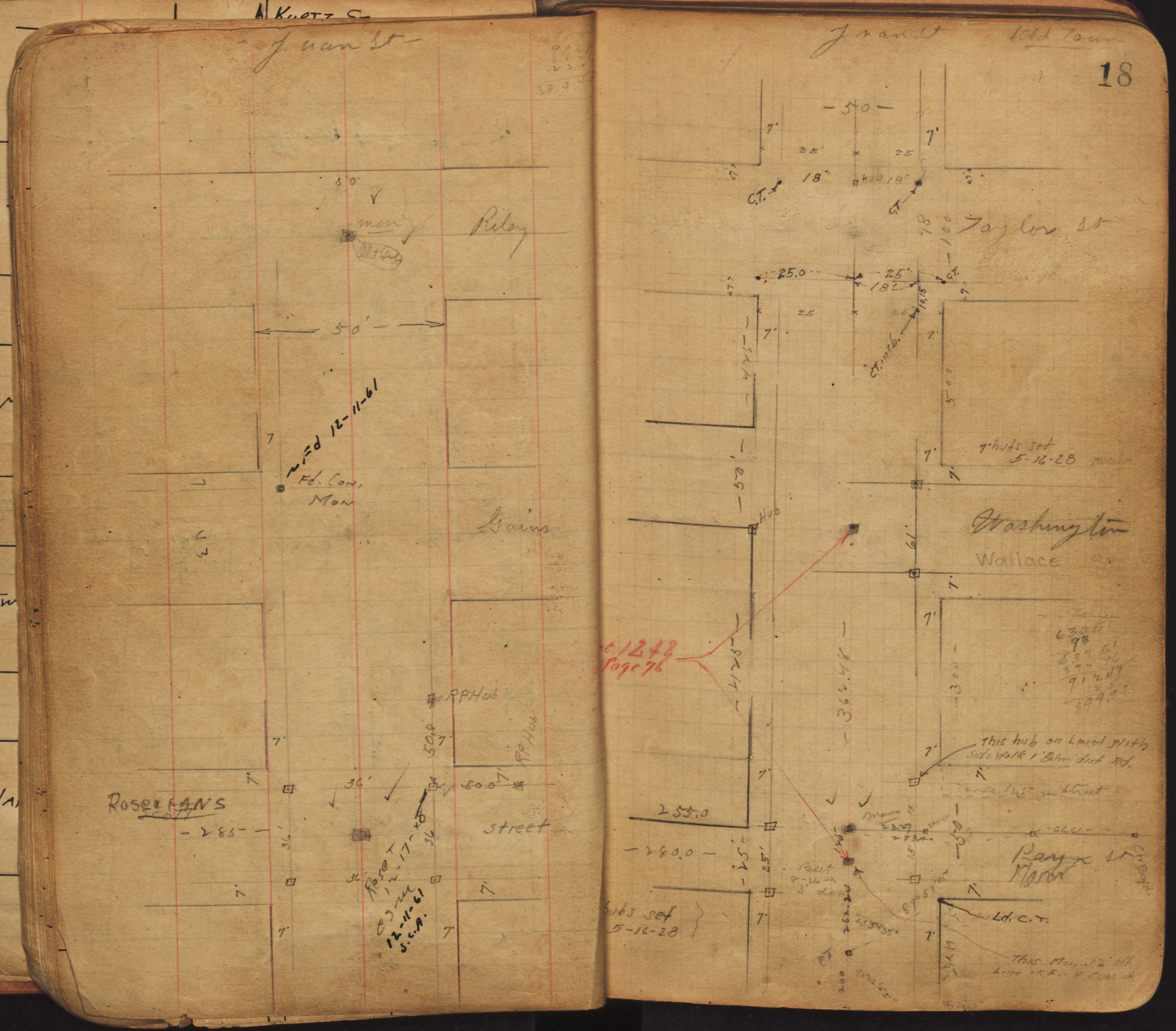

SAN DIEGO AVE
GREENWOOD
349.64 W. LINE OF OLD TOWN
MON
-50-
25
-50-
-15'-
Hub
MON
RILEY
-30-
15
349.90
15
25
15'
GAINES
25
-30-

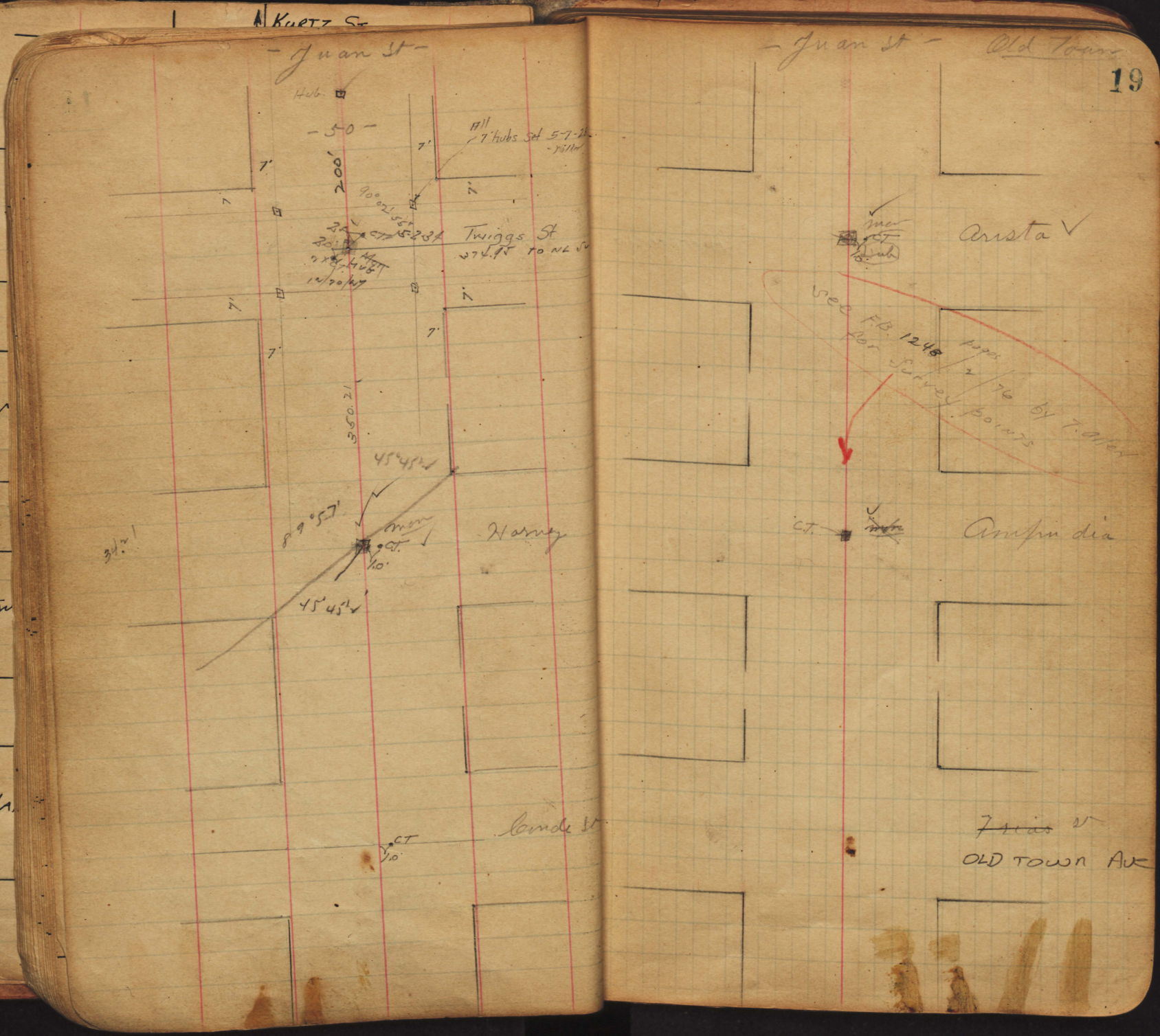

SAN DIEGO AVE
30
Rosecrans
100'
MON
-50-
250
C.T. in Walk
TAYLOR
ST.
-100-
Set C.T. in Pav. 0.02 WLY of L.S. Disk 2236
12'
80'
Fd. in 10-2-45
C.T. in Walk
-30-
3'
-450-
89°56'
Set Disk in Walk 10-2-45 C.B. Walker
C.T. in Walk
12'
Set Disk in Pav. 10-2-45
Set Disk in Paving 10-2-45 C.B.W.
WALLACE
40'
40'
12.5
12.5
25'
81.14
Fd in 10-2-45
C.T. in Cor. Apron
15'
-30-
75.00'
C.T. in Walk on Production of WLY Line S.D. Ave and on the WLY Line Wallace St. on North

SAN DIEGO AVE.
To Mon on Calhoun
Nail in point, CT in walk
1948
68.0
C.T.
-30-
Note: See Page 17 for Measurements
SAN DIEGO AVE
PLAZA
381.5
Hub 2148 To spike in pole
50'
50'
61'
133.45
-75-
88.88
449.6
114.86
424.6
MASON ST
C.T. in cb.
-50-
C.T.
Ties Put in 2-4-29 Walker
314.25
89°56'30"
-75-
HARNEY ST
314.25
C.T. in walk
Hub set 2-4-29
61'
25'
7'
313.48
89°56'30"
36'
EC hub
0.42
75'
Conde St
476.75
PI
321.86
89°56'30"
Fd in Park 12-4-61 C. Allen
Mon
146.4
90°03'
Cross on M.H.
ARISTA ST
476.70
Hub
92°01'
62.0
25'
Tie hub
368.03
4"x" on RIM SMH 12-4-61 C.A.
Ampudia

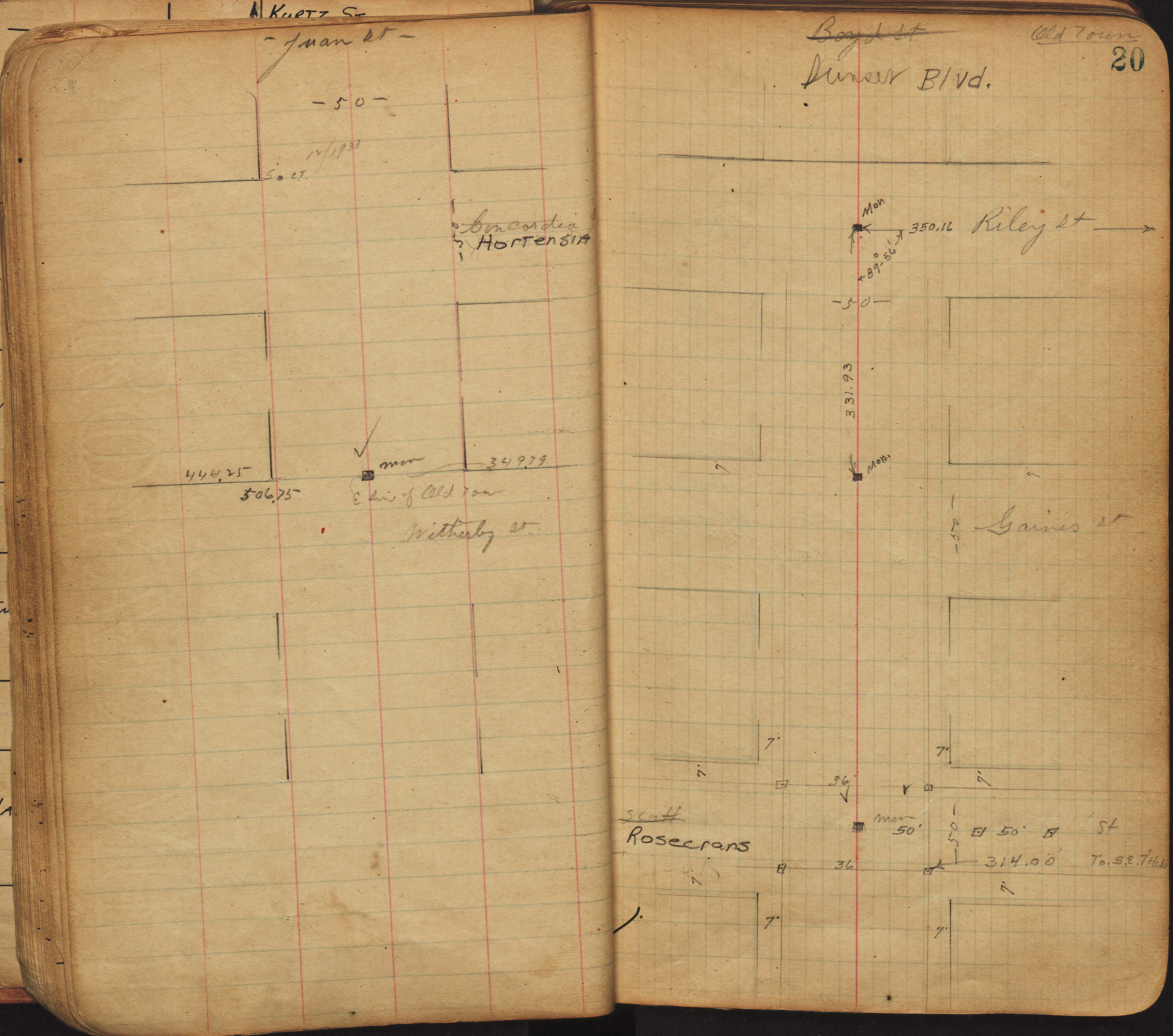

SAN DIEGO AVE
-75'-
Hub
61.00
Hub
AMPUDIA
ST
89°58'
61.00
Hub
Hub
SET CITY MON ON SLY 7' LINE AMPUDIA & SAN DIEGO AVE 12-4-61 C. ALLEN
Records Set May 1928
Set 2" PIPE & HUB 12-5-6 & S.D. Ave NWLY 7' Line
Hub
Hub
Fd 12-6-61
OLD TOWN
Red Wood Hubs Set 6-2-28
AVE
HORTENSIA
ST.
See P.50
89°58'
E
SET MON 3-5-43
SIDE
MON
OF OLD TOWN
-362.62-
CALHOUN ST
OLD TOWN
RILEY
-50- ST
-70-
GAINES
-50- ST
ROSECRANS
-50- ST
-70-

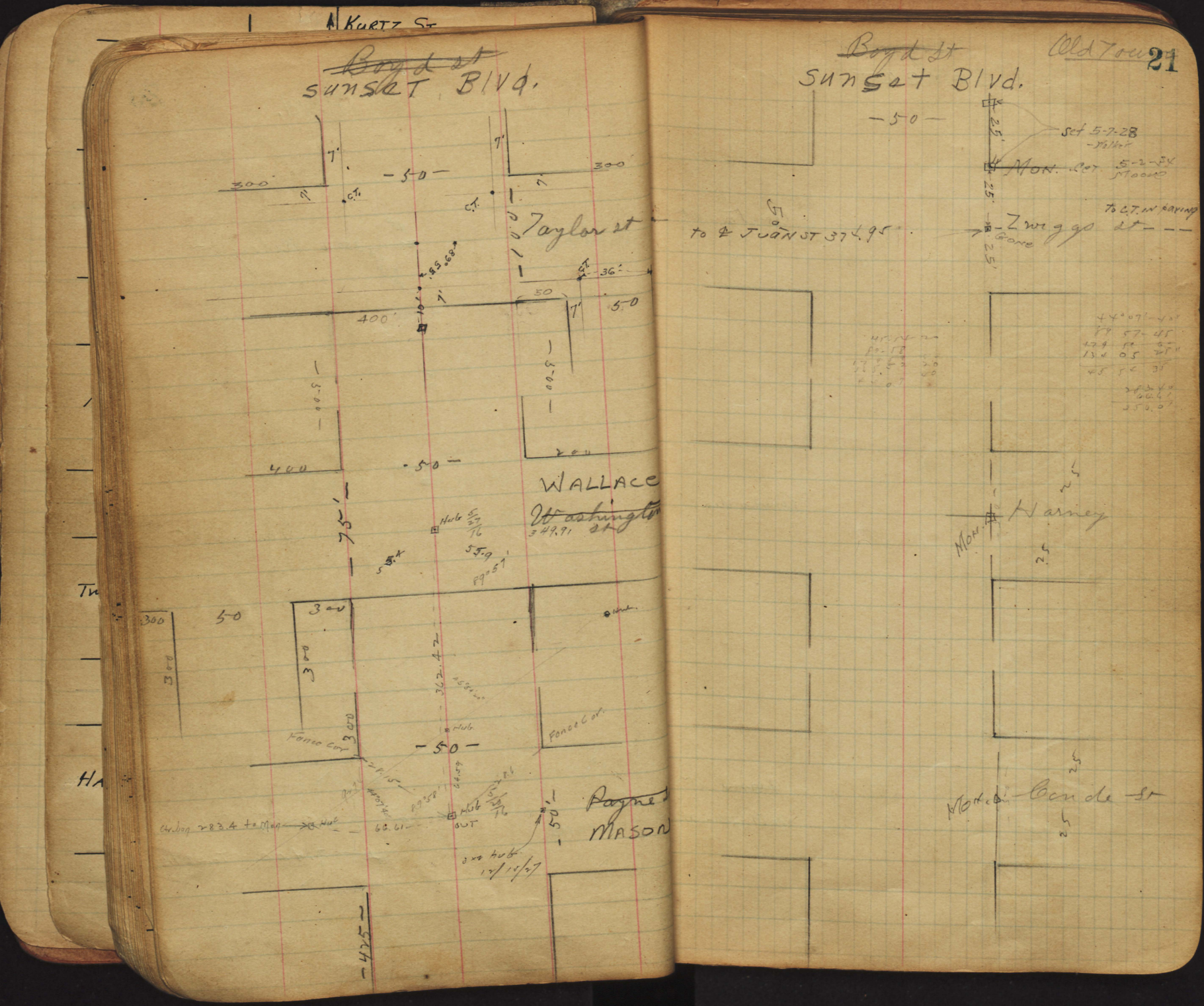

CALHOUN ST
TAYLOR
ST.
WALFORD ST
PLAZA
MASON ST.
COUTS ST
hub set 5-8-28
5 Black tacks with cop tack in ℄ in 10'x10" post
4 BLACK TACKS AROUND COPPER TACK IN POLE
cop tack in side Walk
2x2 Redwood hub
Hub 5-8-28
MON
C.T. in Walk
Nail in Paving
W.P. Line
this is 7' Line Produced
PLAZA
SAN DIEGO AVE.
2x2 RW HUB
Mon.
Coutts St.
Mon.
-70-
-100-
-425'
-50'
-194.81-
-264.71-
190.35
133.45
-40-
-381.5-
-449.6-
-424.62-
-221.1-
-40.09-
450.73
-75-
-40-
-280-
68.0'
149.79
-25-
-50'
-25'
-40-
-75-
-40-
-50'
-75-
-40-
-40-
-50'
-25'
-40-
-75-
-40-
-221.1-
-280-


Juan St
Riley
50'
Fd. Con. Mon
Gains
RP Hub
Roseland
Street
Juan St
Old Town
Taylor St
Washington
Wallace St
Hub
This hub on Level with Sidewalk 1' Below dirt Rd.
255.0
280.0
Ld. C.T.
Hubs set 5-16-28



Kurtz St
- Juan St -
Hub
- 50 -
All 7' hubs set 5-7-28
200'
Twiggs St
374.95 TO NL SW
350.21
45°45'
89°57'
mon
CT
1.0'
Harney
Conde St
CT
1.0'
- Juan St -
Old Town
19
mon
CT
Hub
Arista
See F.B. 1248 pages 2/76 by T. Allen for Survey points
C.T.
Ampudia
OLD TOWN AVE


Kurtz St
Juan St
50
12/1933
S. CT.
Concordia
Hortensia
444.25
506.75
mon
349.79
E Sin of Old Town
Witherby St.
Boyd St
Old Town
20
Sunset Blvd.
Mon
350.16
Riley St
89°56'
50
331.93
Mon
Gaines St
7'
36
Scott
Rosecrans
mon
50'
50'
St
314.00'
To S.E. 7 Hab
36
7'



Kurtz St
Boyd St
Sunset Blvd.
Taylor St
Wallace
Washington St
Payne St
Mason
Fence Cor.
Hub
Old Town
21
Boyd St
Sunset Blvd.
Set 5-7-28
Mon. Set 5-2-34
Zwiggs St
to C.T. in paving
to ¢ Juan St 374.95
Harney
Mon.
Conde St

Kurtz S.

~~Boyd st~~

Sunset Blvd.

-50-

Arista st

Ampudia

~~Third~~ st

OLD TOWN

~~Boyd st~~

Old Town

Sunset Blvd.

-50-

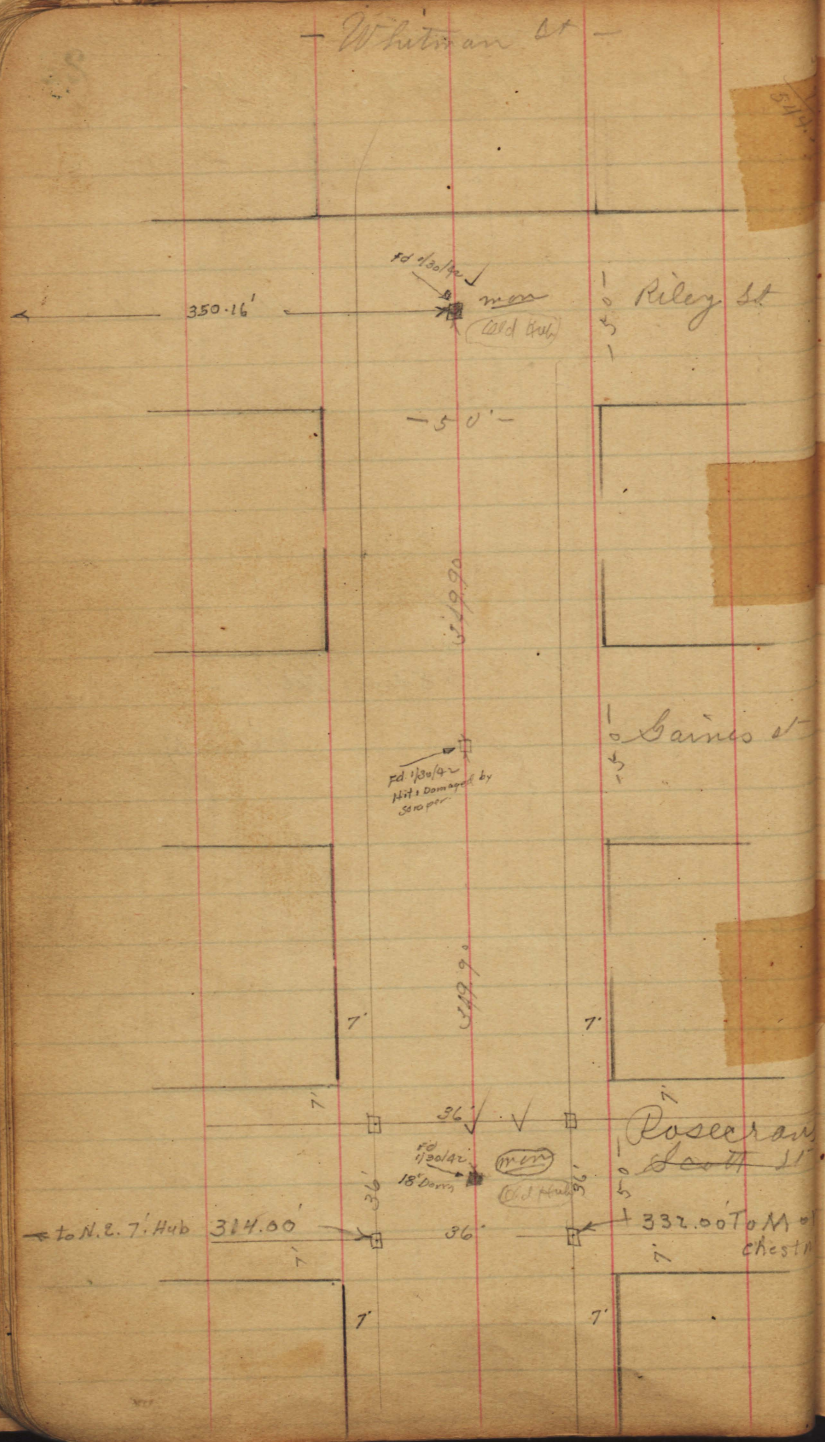
Hortonsia

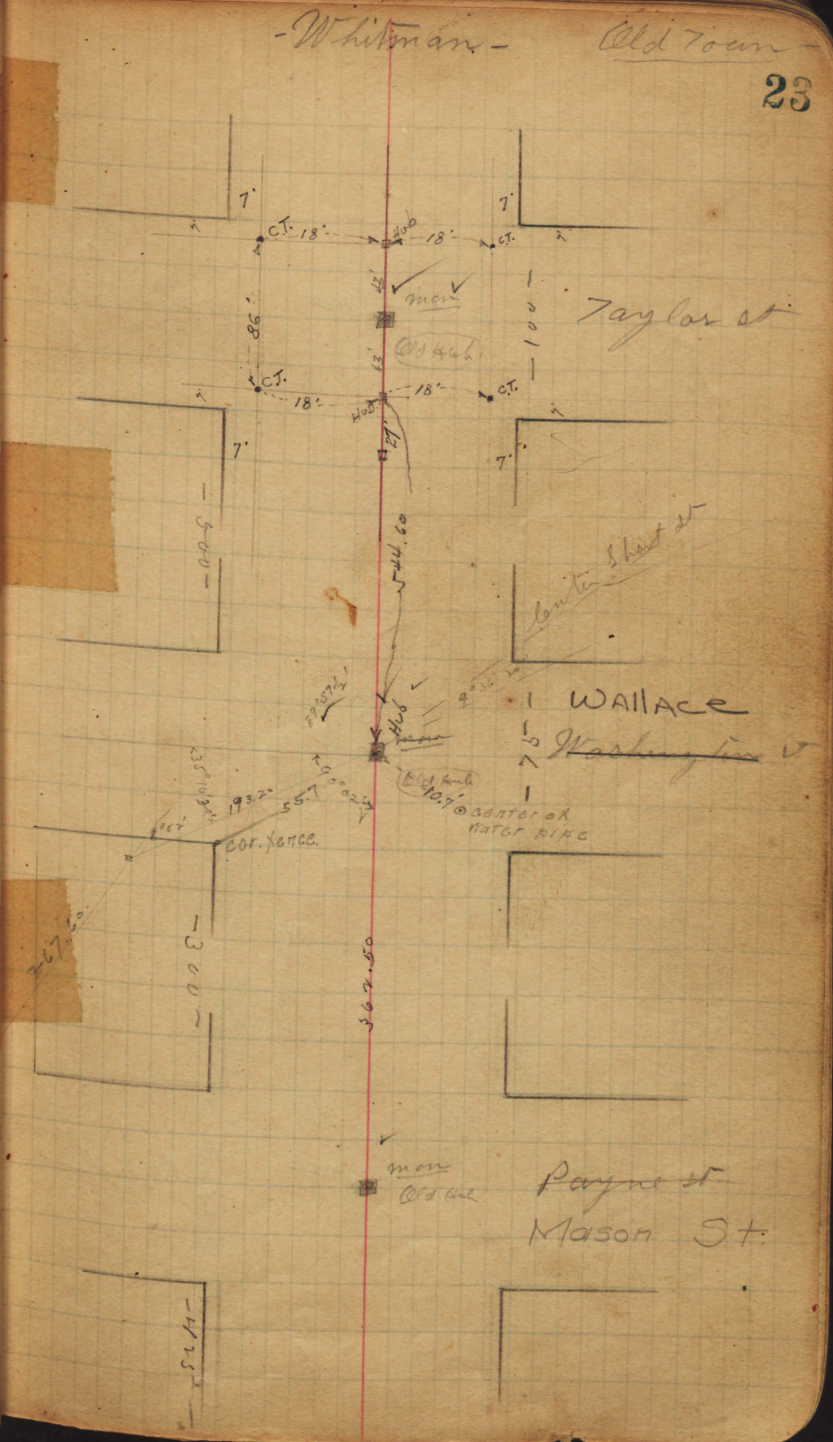
Concordia

549.79

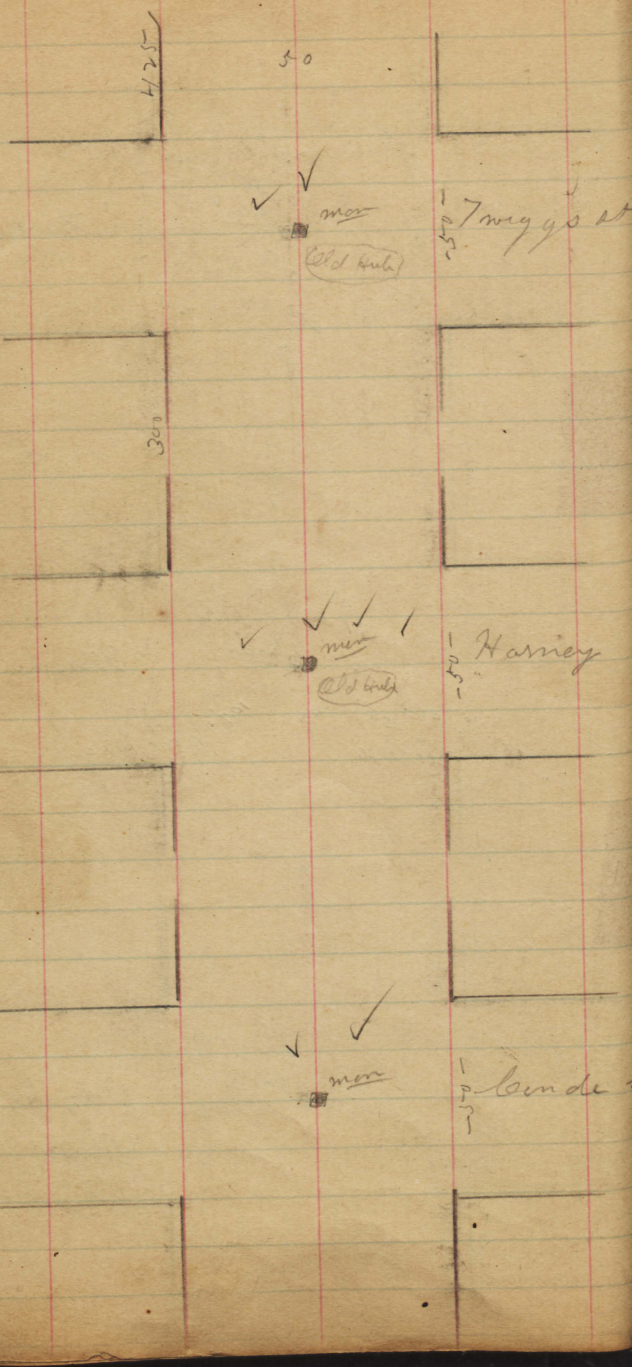
E line of Old Town

Withersby

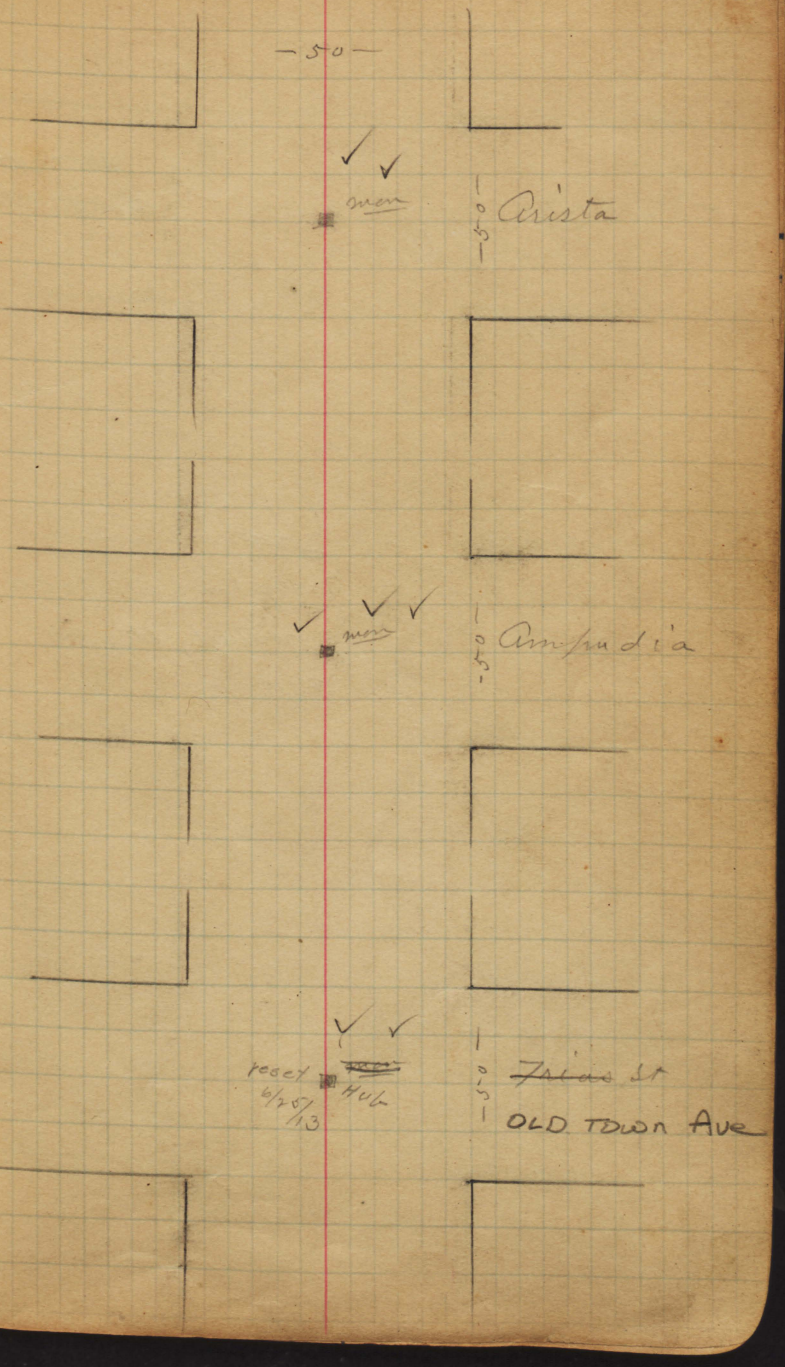

Whitman St
Riley St
350.16'
Fd 1/30/42
mon
Old Hub
50'
Gaines St
Fd 1/30/42
Hit & Damaged by Scraper
Rosecrans
Scott St
Fd 1/30/42
18' Down
mon
Old Hub
to N.E. 7' Hub
314.00'
332.00' To M of Chestn
7'

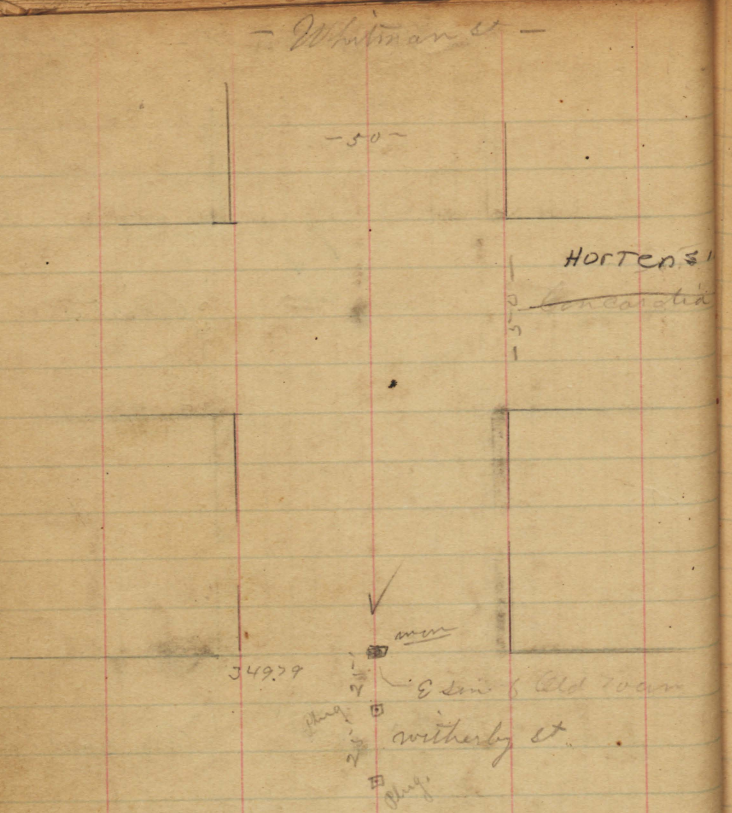

Whitman
Old Town
Taylor St
C.T.
18'
Hub
mon
Old Hub
86'
100'
544.60
Center Short St
WALLACE
Washington St
Old Hub
10.7'
center of water pipe
193.2'
55.7'
cor. fence
267.60
362.50
mon
Old Hub
Payne St
Mason St
7'

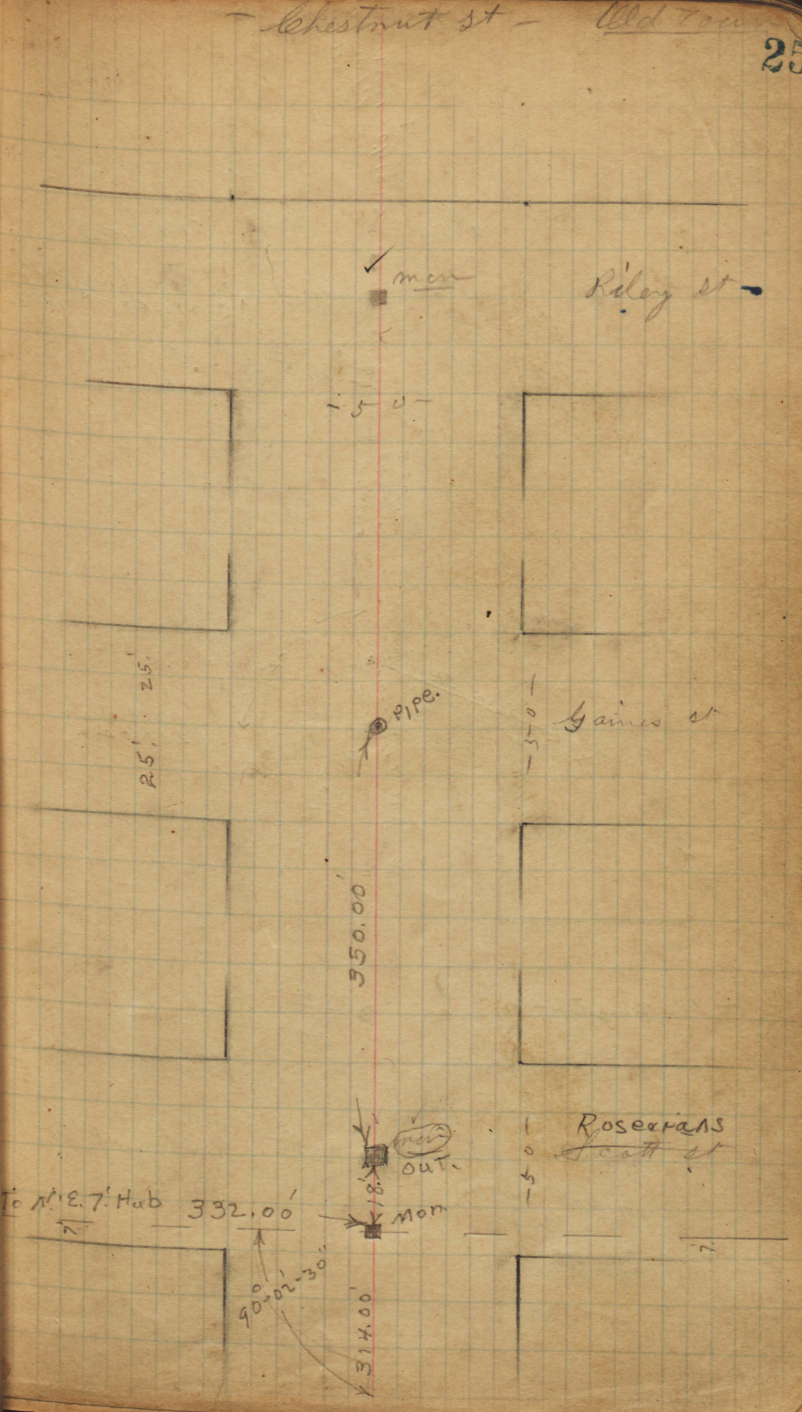
— Whitman st —

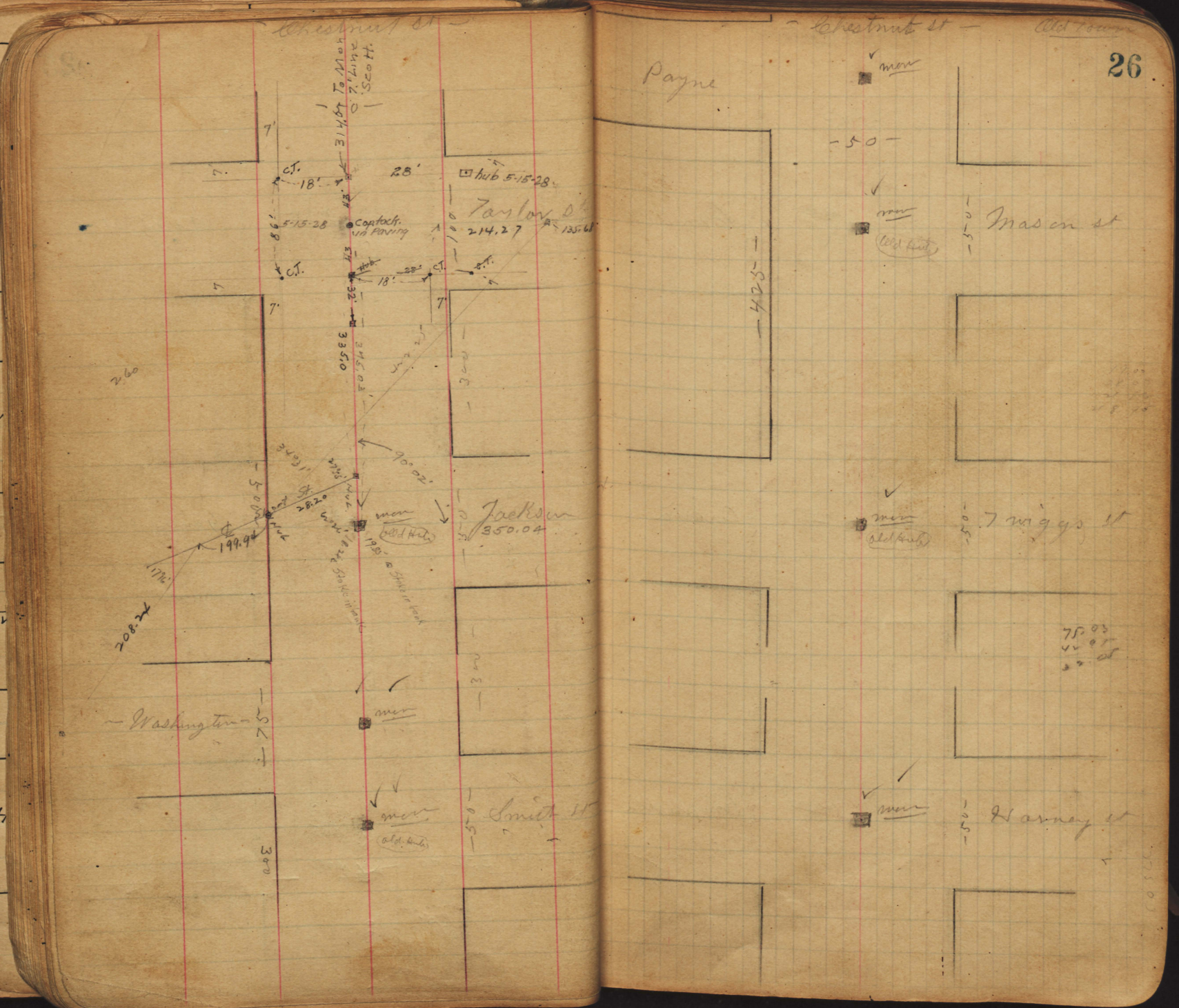


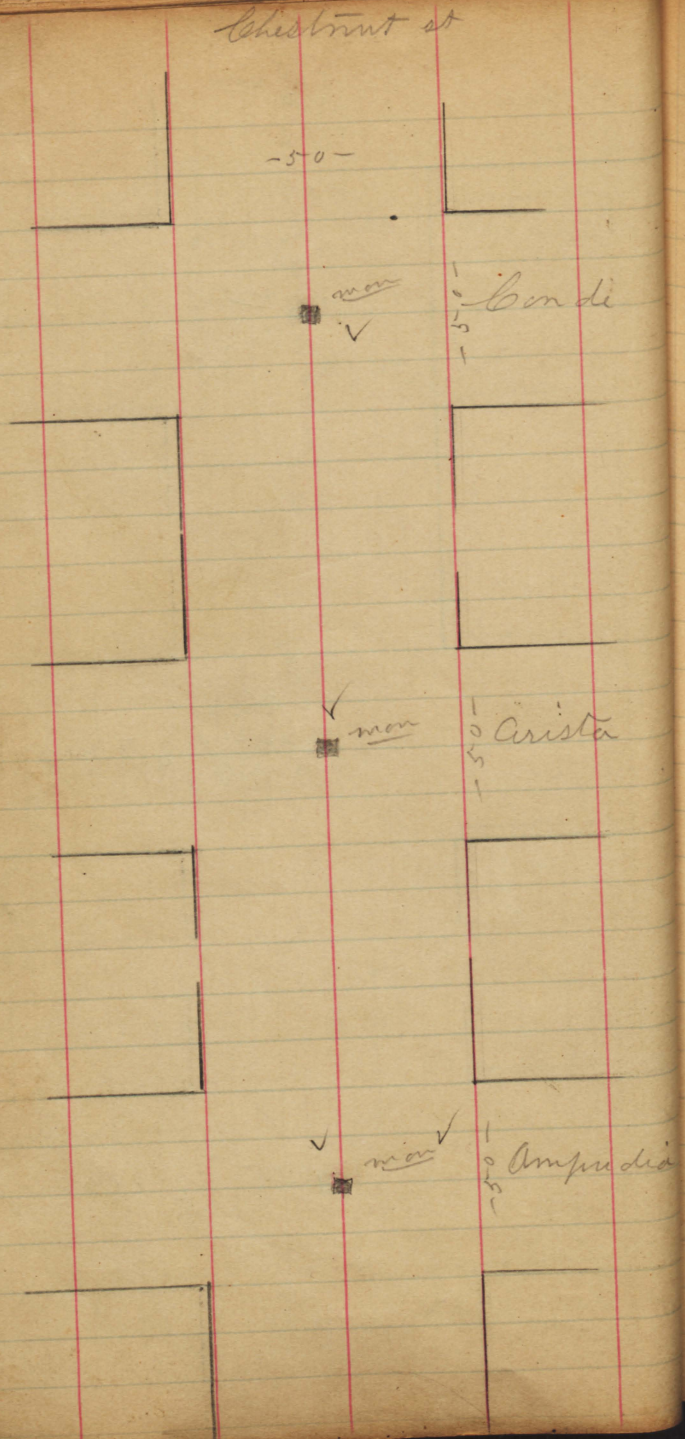
— Whitman st — Old Town

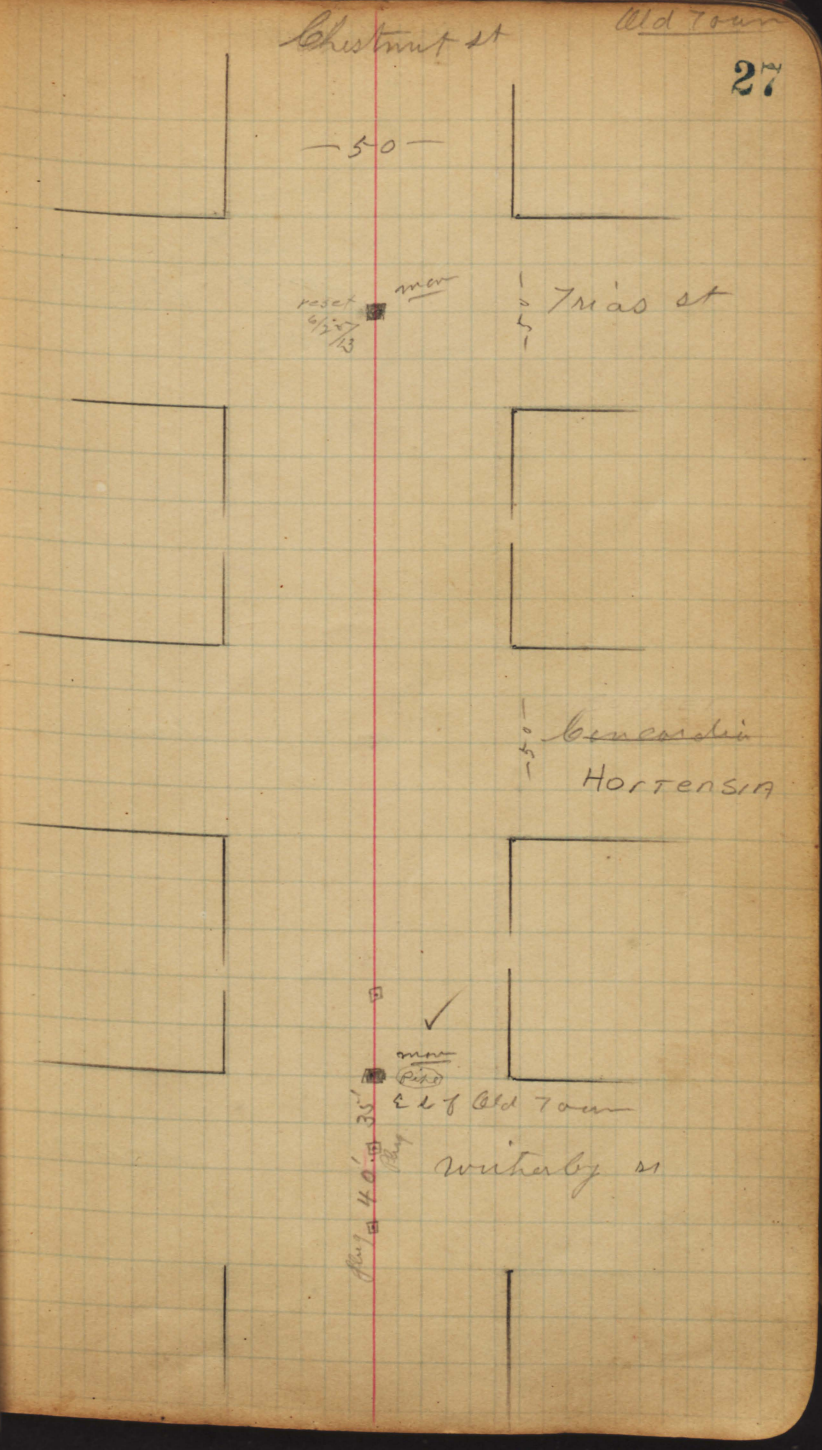


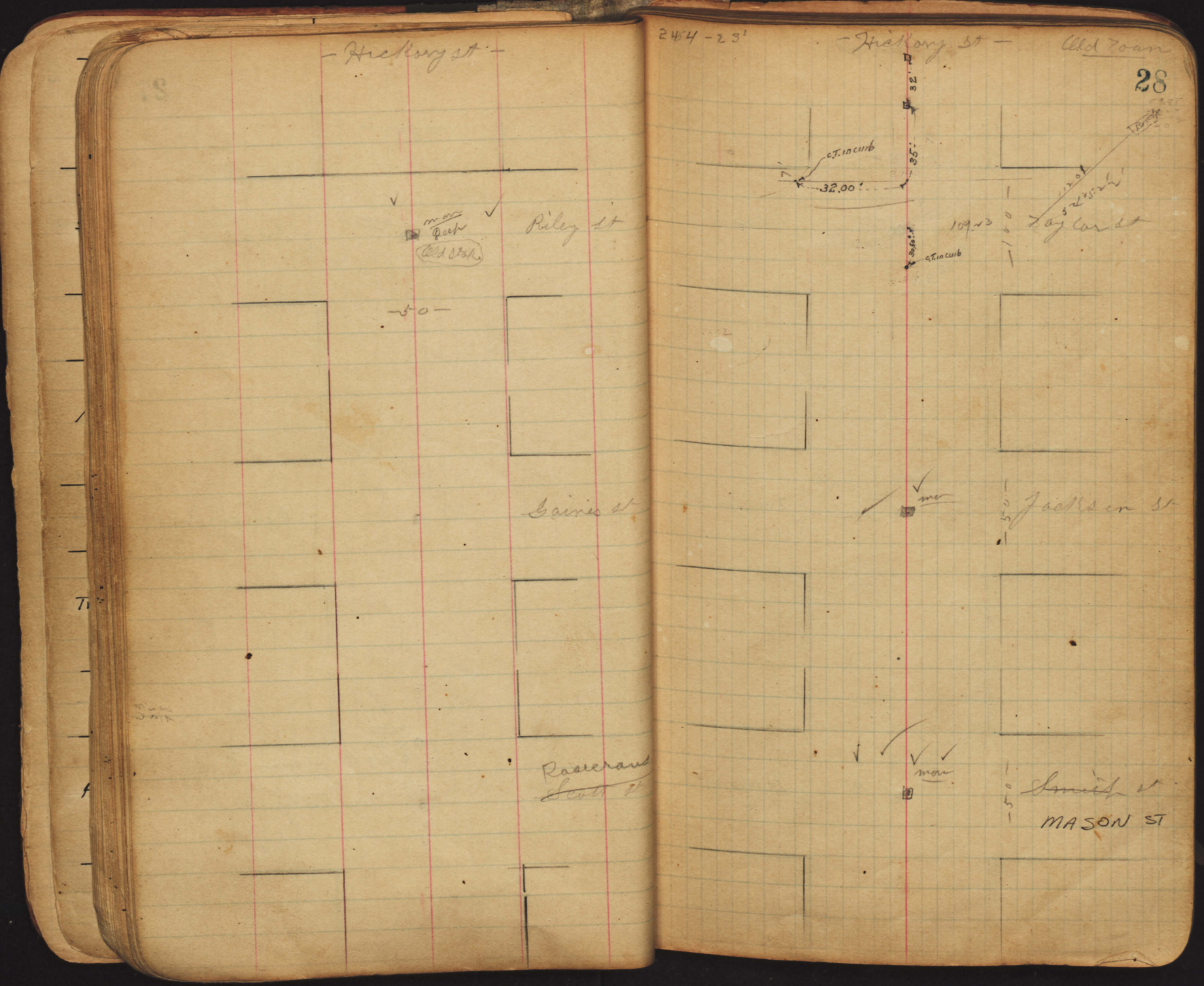

Whitman st
50
Horten st
Concordia
50
mon
349.79
E Sin of Old Town
Plug
witherby st
Plug


Chestnut st
Old Town
mon
Riley st
50
25'
25'
pipe
Gaines st
50
350.00
mon
out
Rosecrans
Scott st
50
To N.E. 7' Hub
332.00'
18'
mon
90°-02'-30"
314.00'

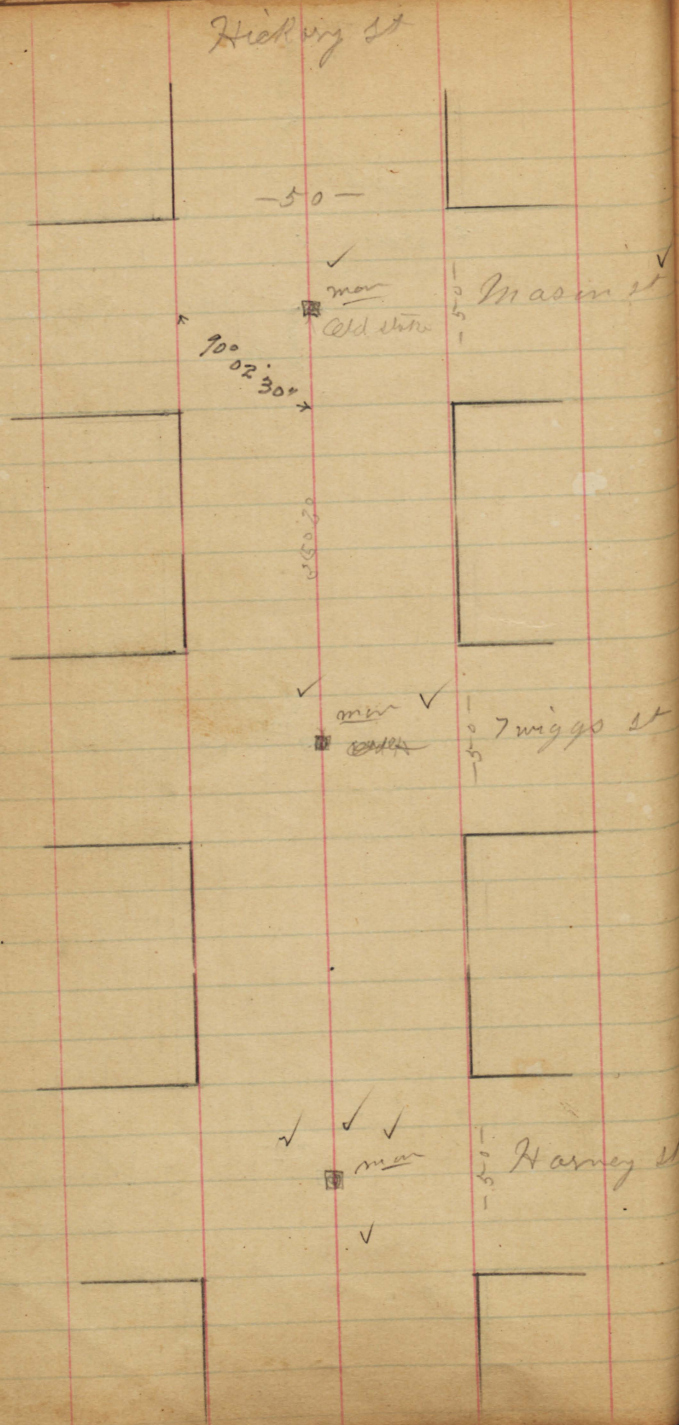

Chestnut St
Old Town
Payne
Taylor St
Jackson
Washington
Smith St
Mason St
Twiggs St
Harney St
hub 5-15-28
Coptack. in Paving
C.T.
mon
old Hub
214.27
135.68
335.0
345.03
90°02'
28.20
199.94
208.24
314.67 To Mon 7' Line Scott.
28'
18'
7'
86'
100
300
75
50
425

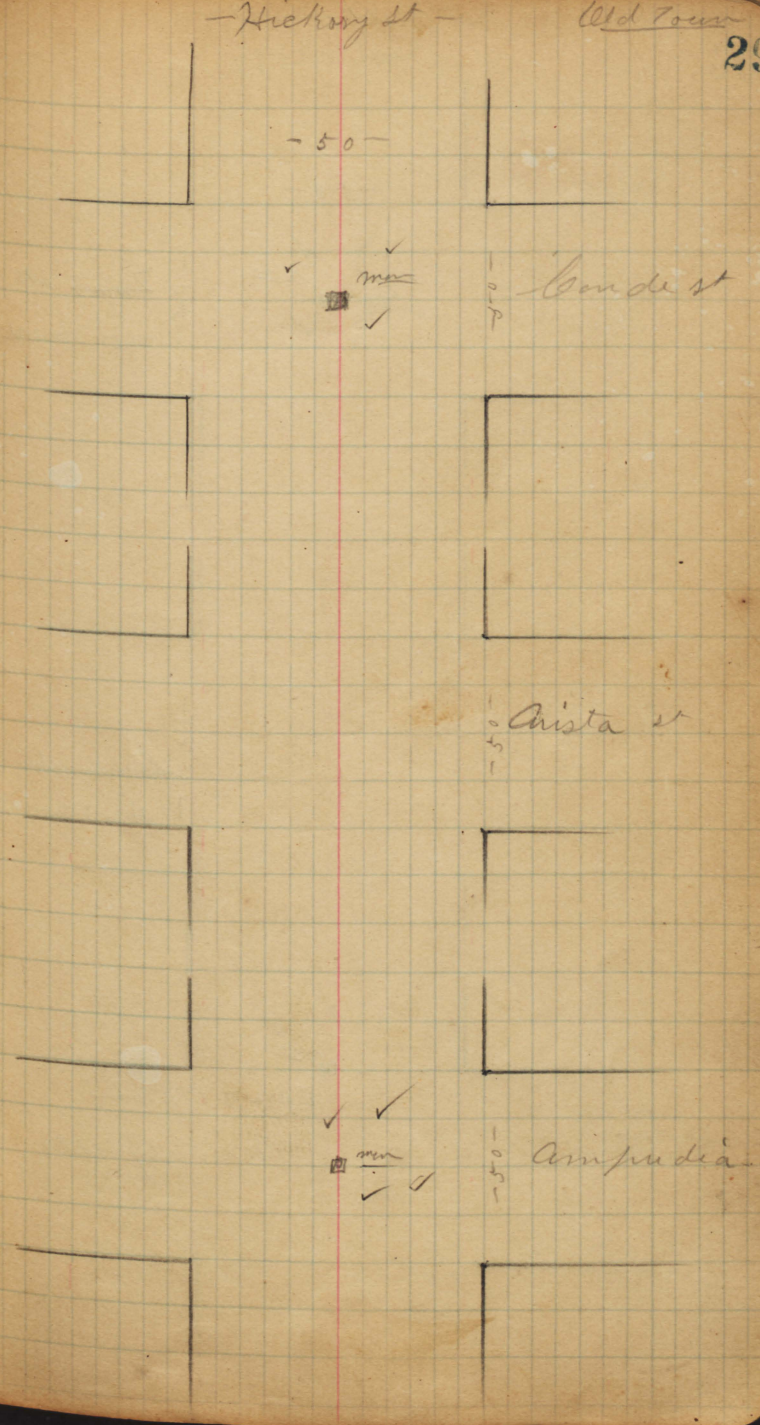

Chestnut st
-50-
mon
Condi
mon
Arista
mon
Ampudia

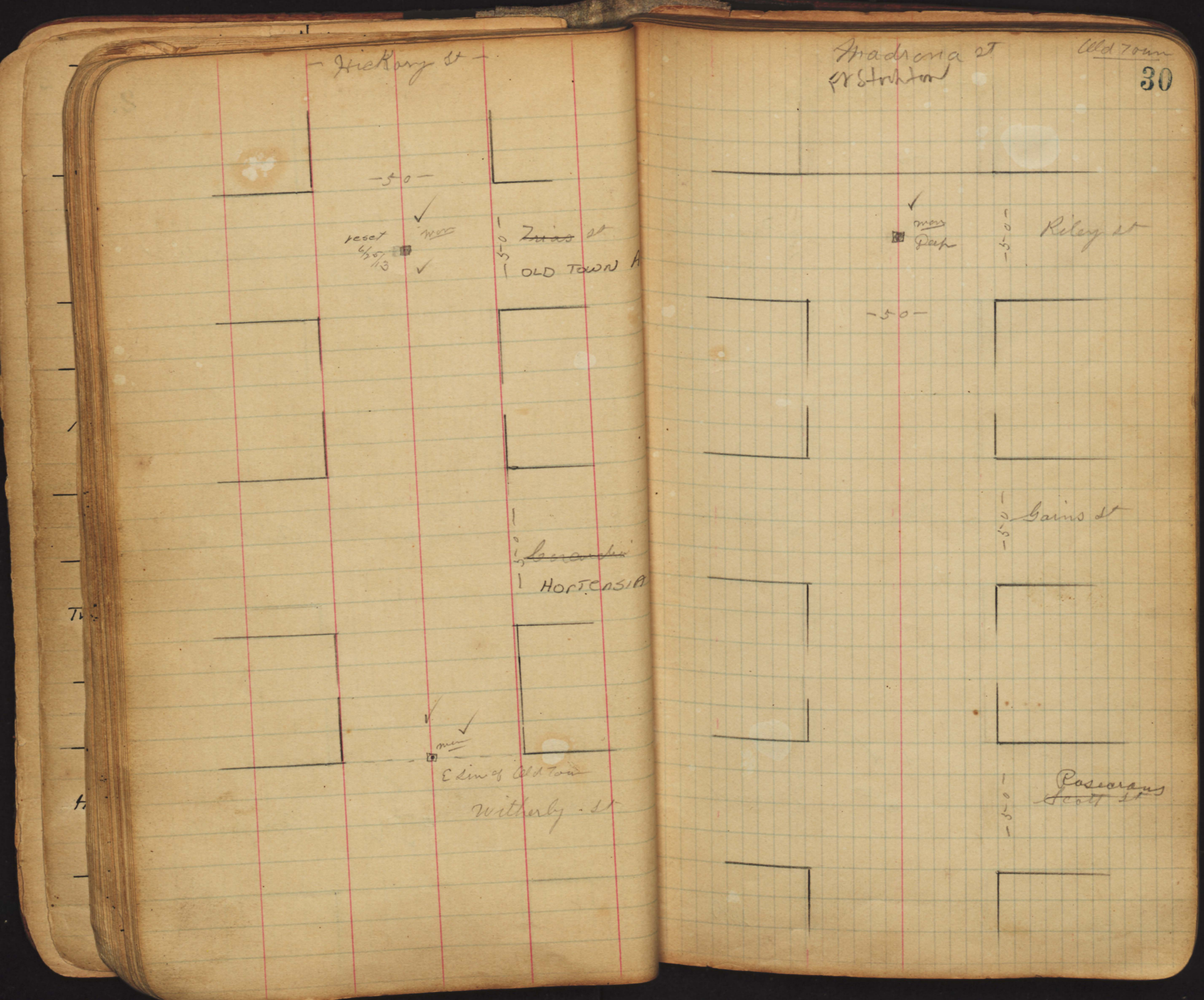

Chestnut st
Old Town
-50-
reset
mon
Trias st
Concordia
Hortensia
mon
Pike
E of Old Town
35'
40'
Whitaby st

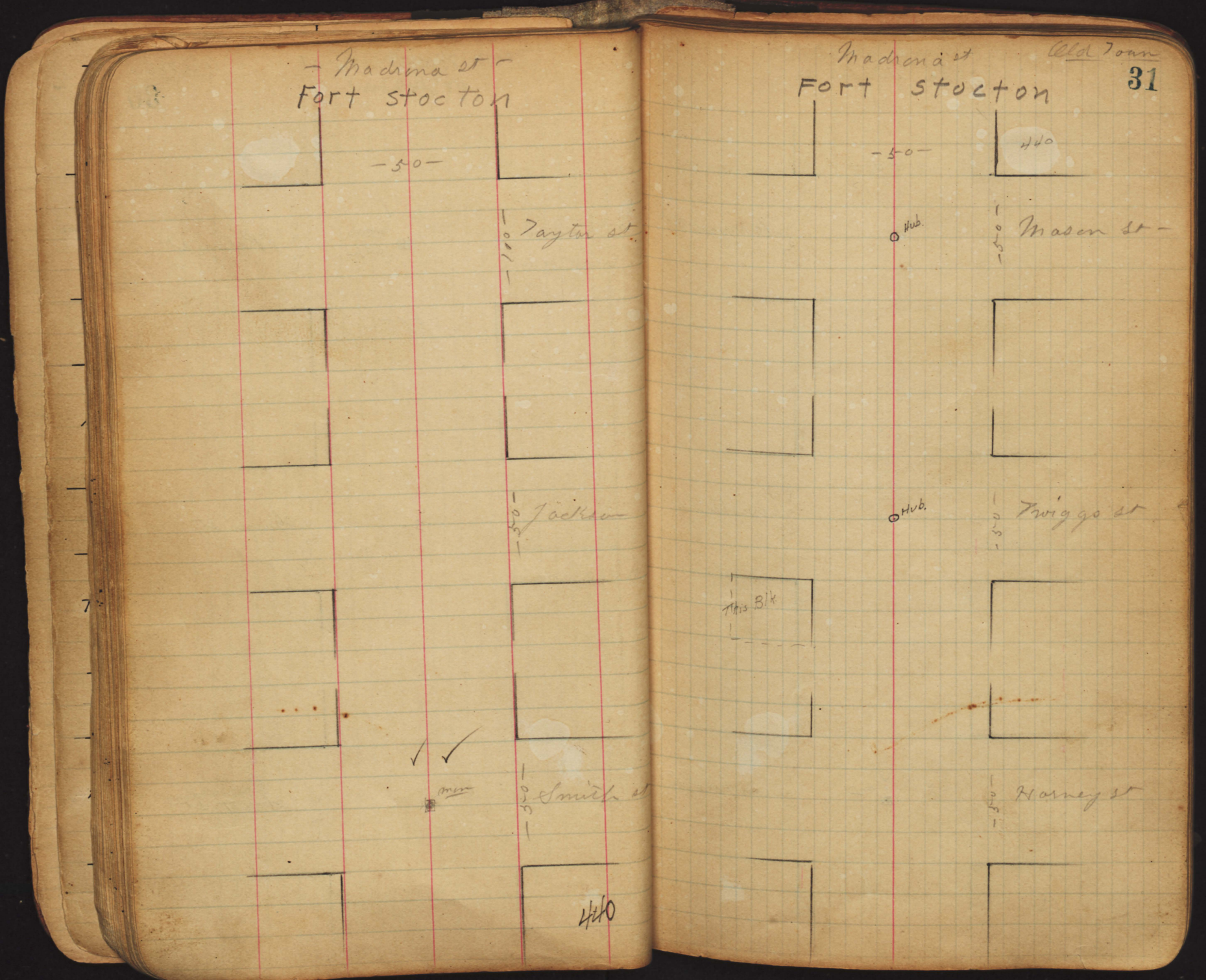


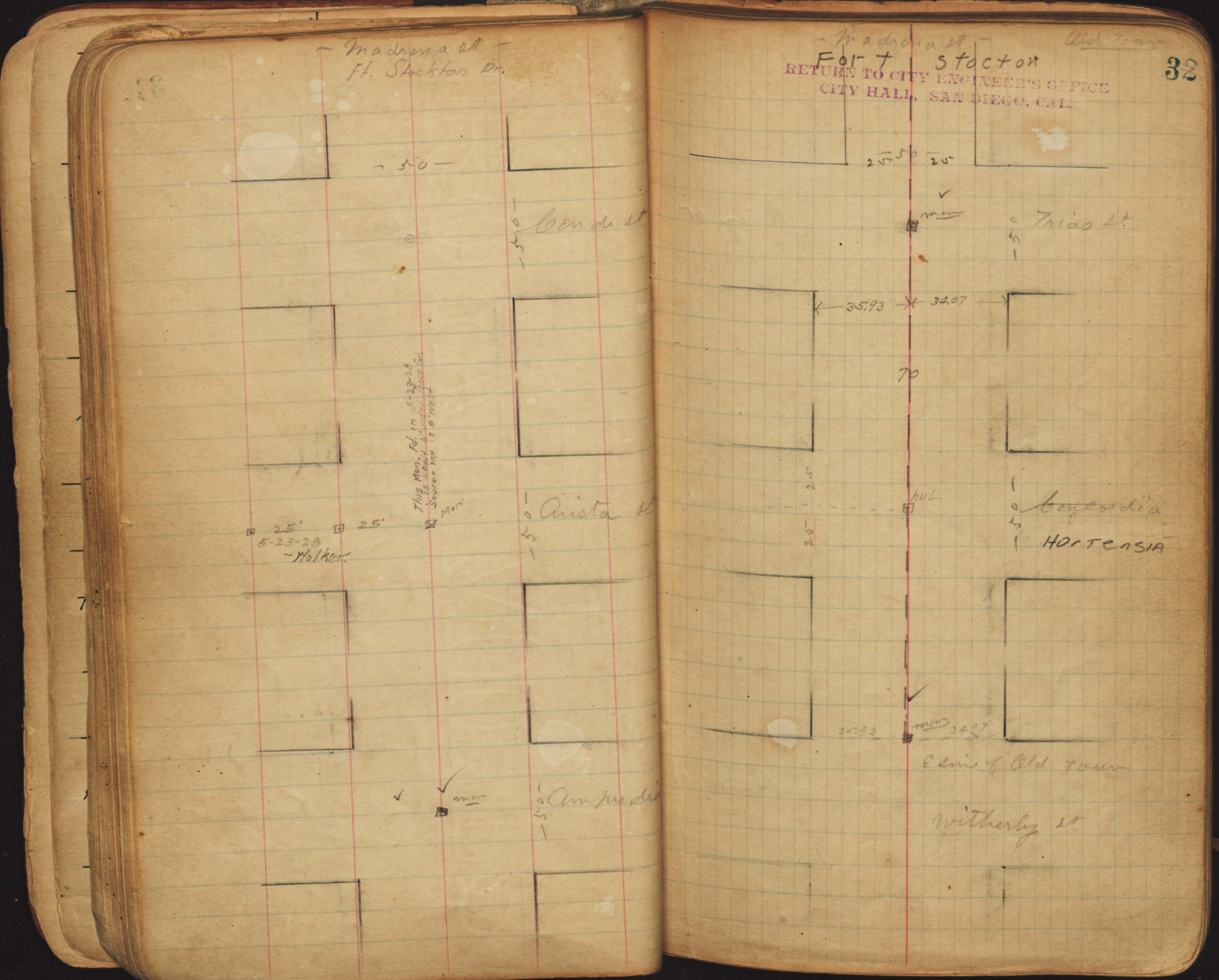
Hickory st
Riley st
Old Stake
Gaines st
Rosecrans
Scott st
2454 - 23'
Hickory st
Old Town
28
32'
35'
c.T. in curb
32.00'
109.43
Taylor st
c.T. in curb
Jackson st
Smith st
MASON ST

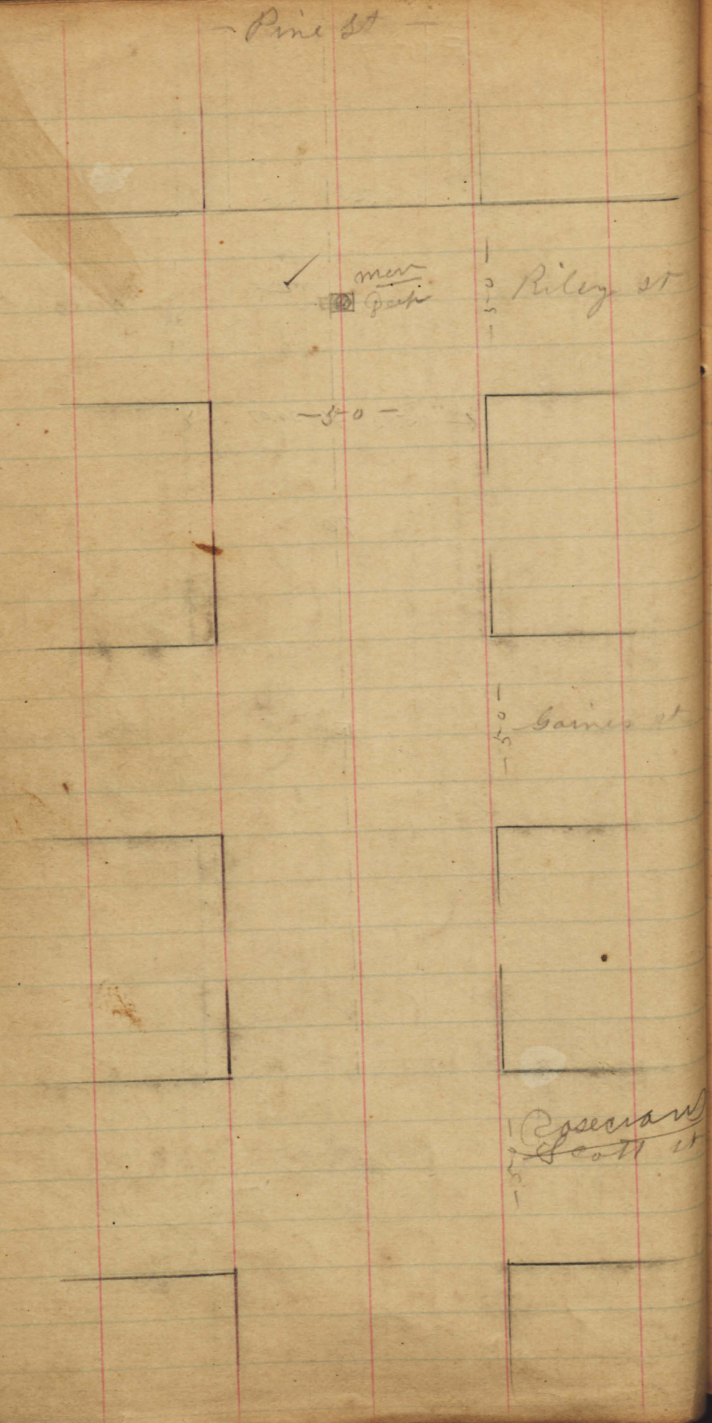

Hickory St
-50-
mon
Old stake
Masin St
90° 02' 30"
mon
Twiggs St
mon
Harney St

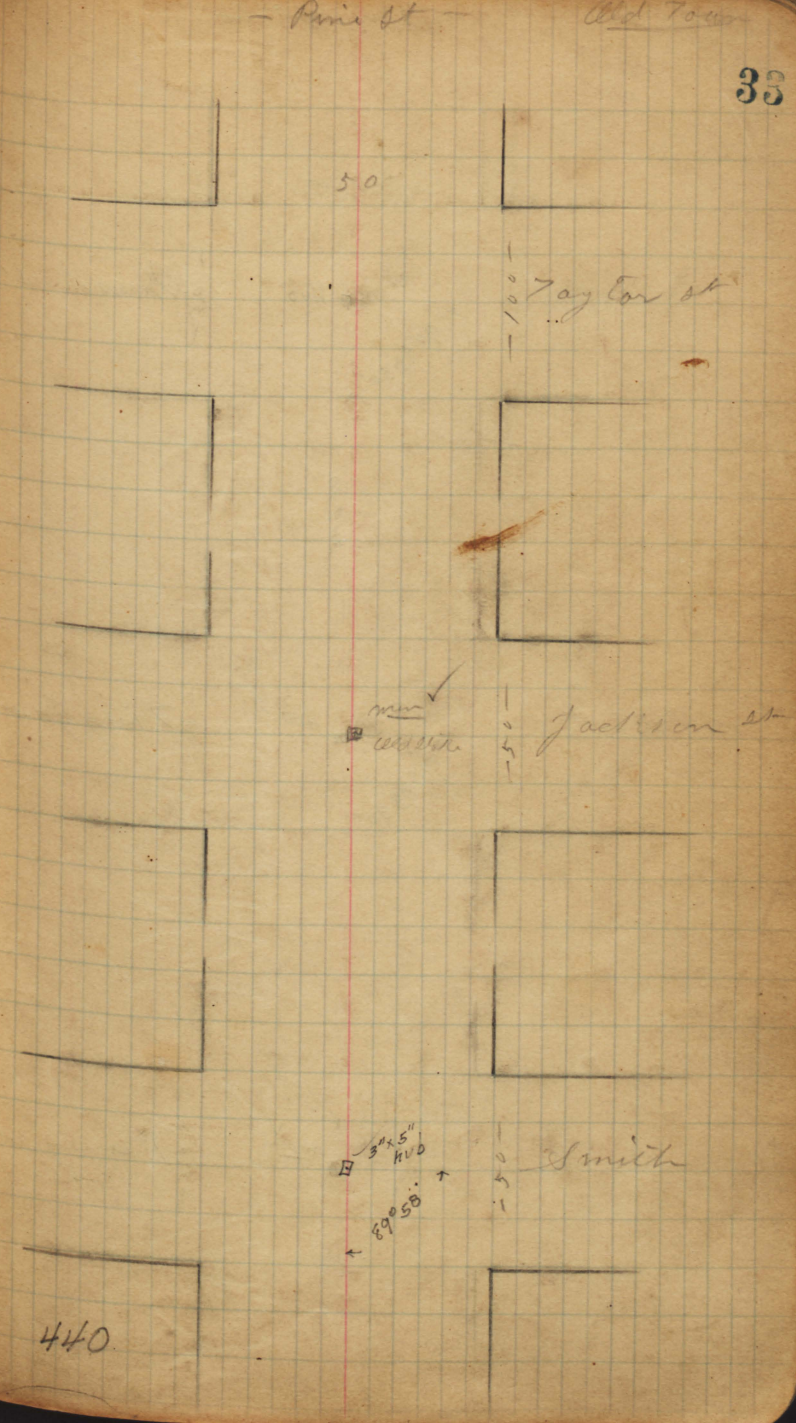

Hickory St
Old Town
-50-
mon
Conde St
Arista St
mon
Ampudia

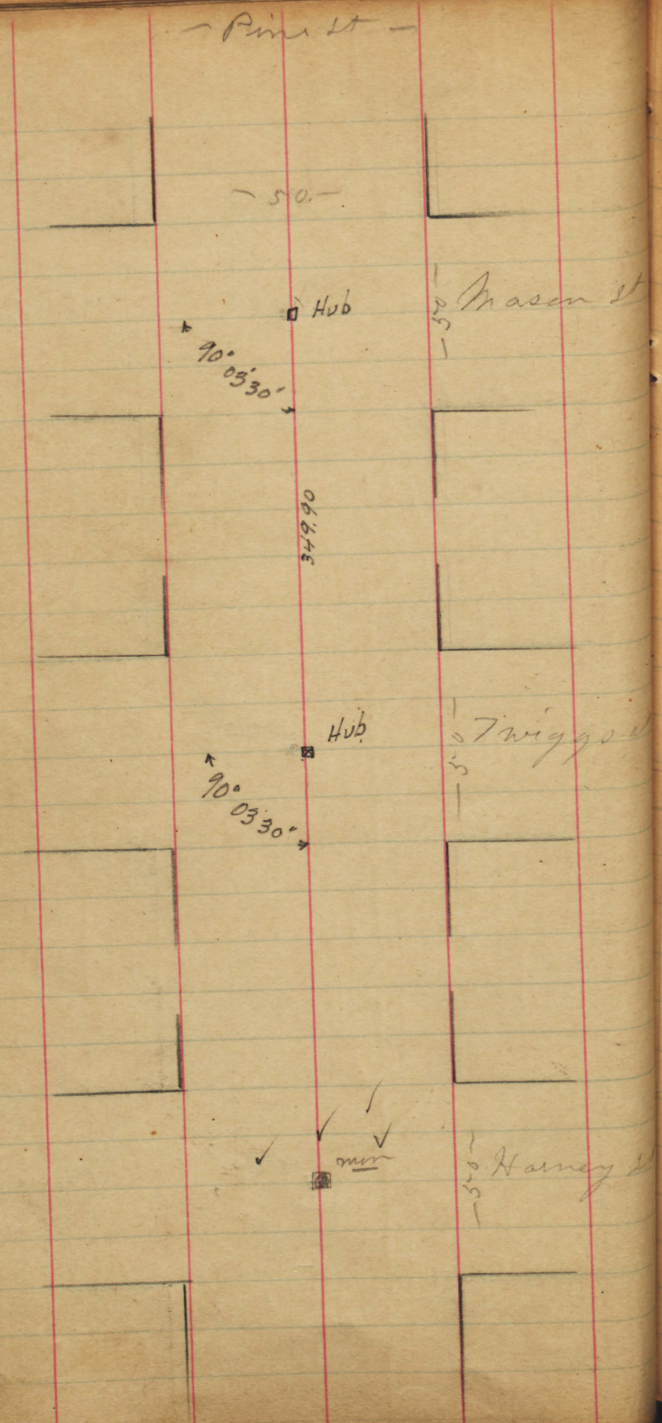

Hickory St
50
reset 6/25/13
mon
Zrias St
OLD TOWN A
Hortensia
mon
E Sin of Old Town
Witherby St
Madrona St
Ft Stockton
Old Town
30
mon
Deep
50
Riley St
50
Gains St
Rosecrans
Scott St

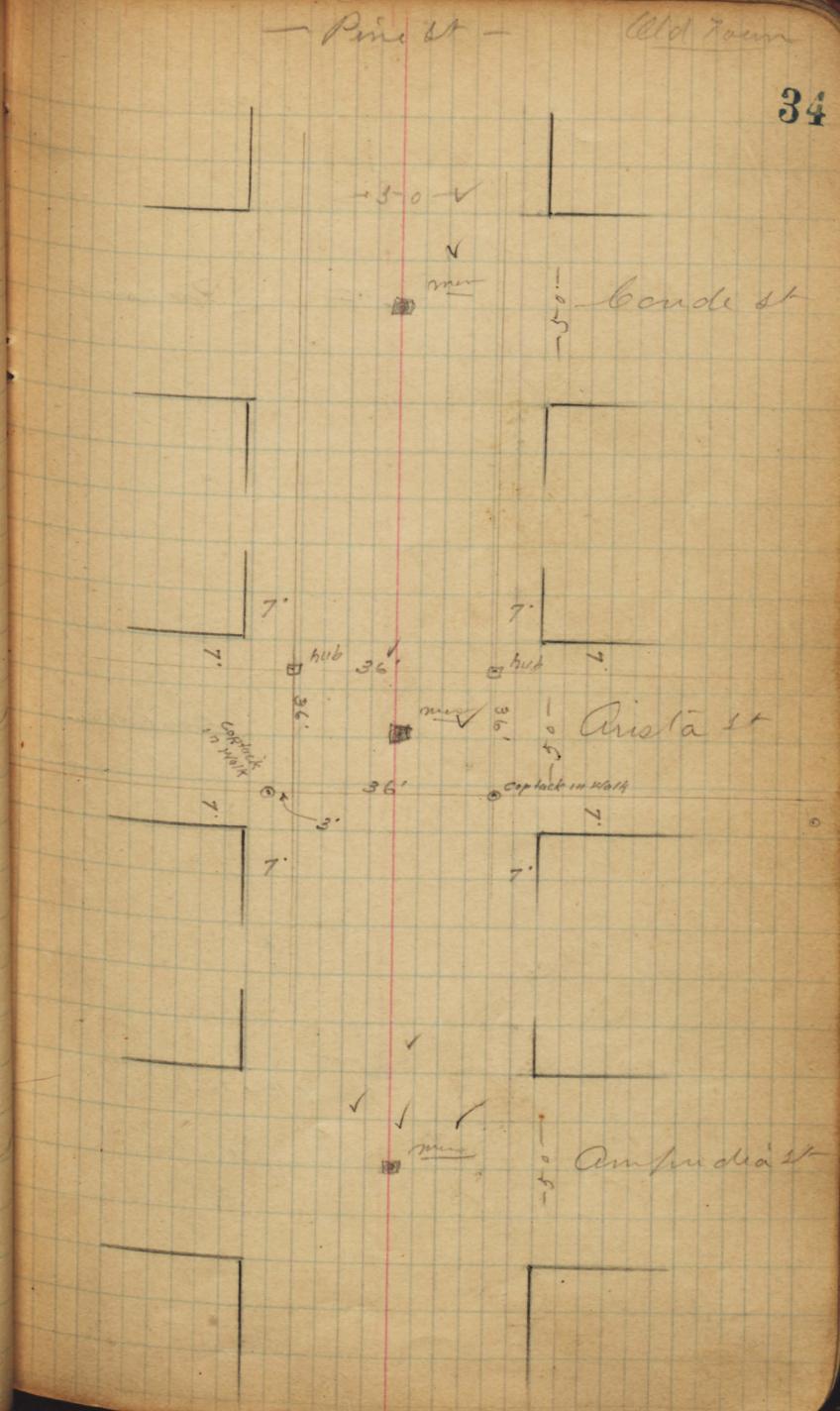

Madrona st
Fort stocton
-50-
Taylor st
100
Jackson
50
Smith st
50
440
Madrona st
Old Town
31
Fort stocton
-50-
440
Hub.
Mason st
50
Hub.
Twiggs st
50
This Blk
Harney st
50

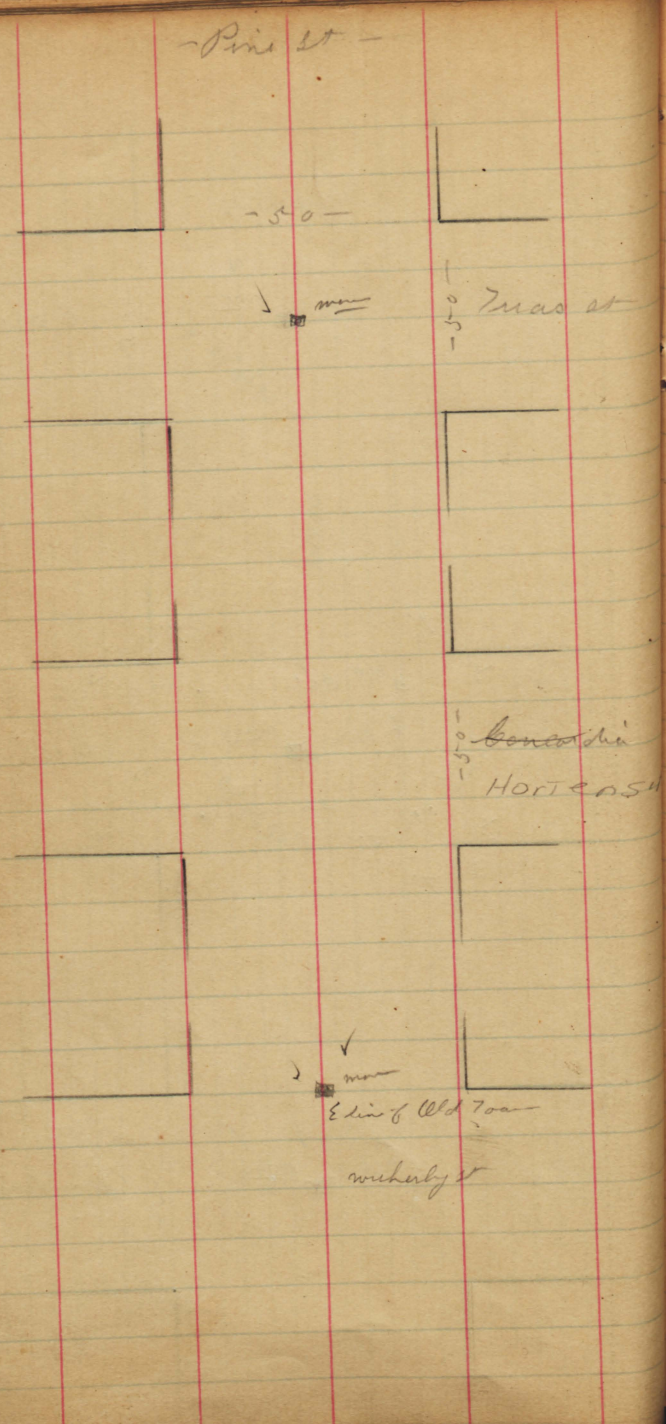

Madrona st
Ft. Stockton Dr.
50
Conde st
This Mon. Fd. in 5-23-28 is about 6" under Fence Cor. Sewer M.H. is 5' West
Mon
Arista st
25'
25'
5-23-28
Walker
Ampudia
Madrona st
Old Town
Fort Stocton
RETURN TO CITY ENGINEER'S OFFICE
CITY HALL, SAN DIEGO, CAL.
32
25
50
25
Trias st
35.93
34.07
70
25
25
hub
Concordia
HORTENSIA
35.93
34.07
E line of Old Town
Witherby st

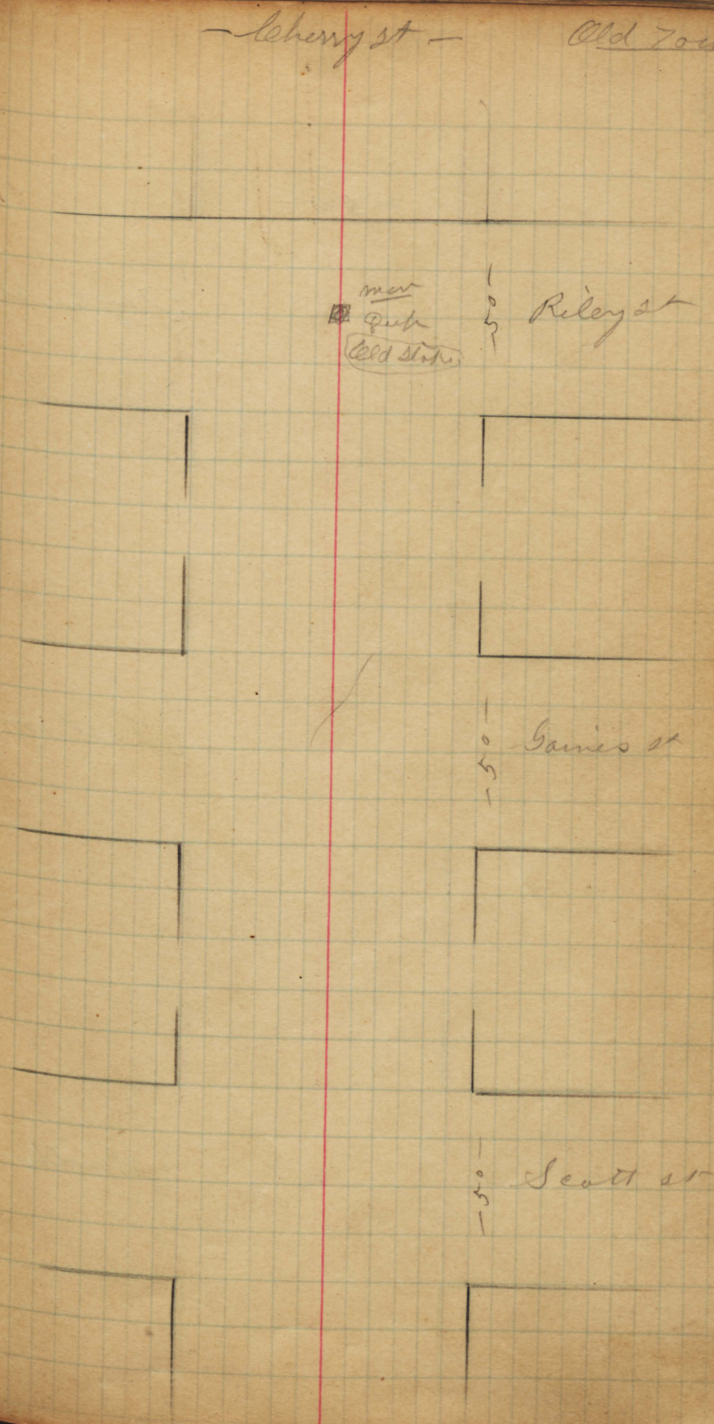

Pine St
Riley St
50
Gaines St
Rosecrans
Scott St

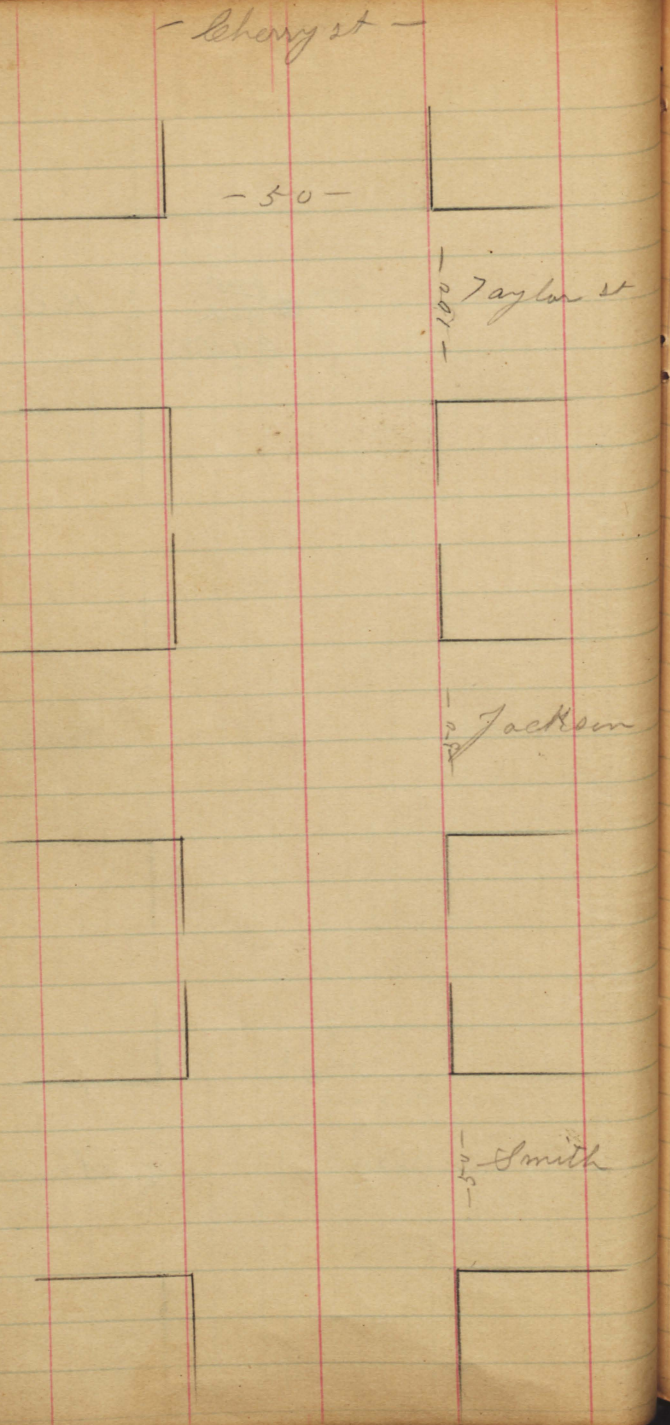

Pine St
Old Town
33
50
Taylor St
Jackson St
Smith
440

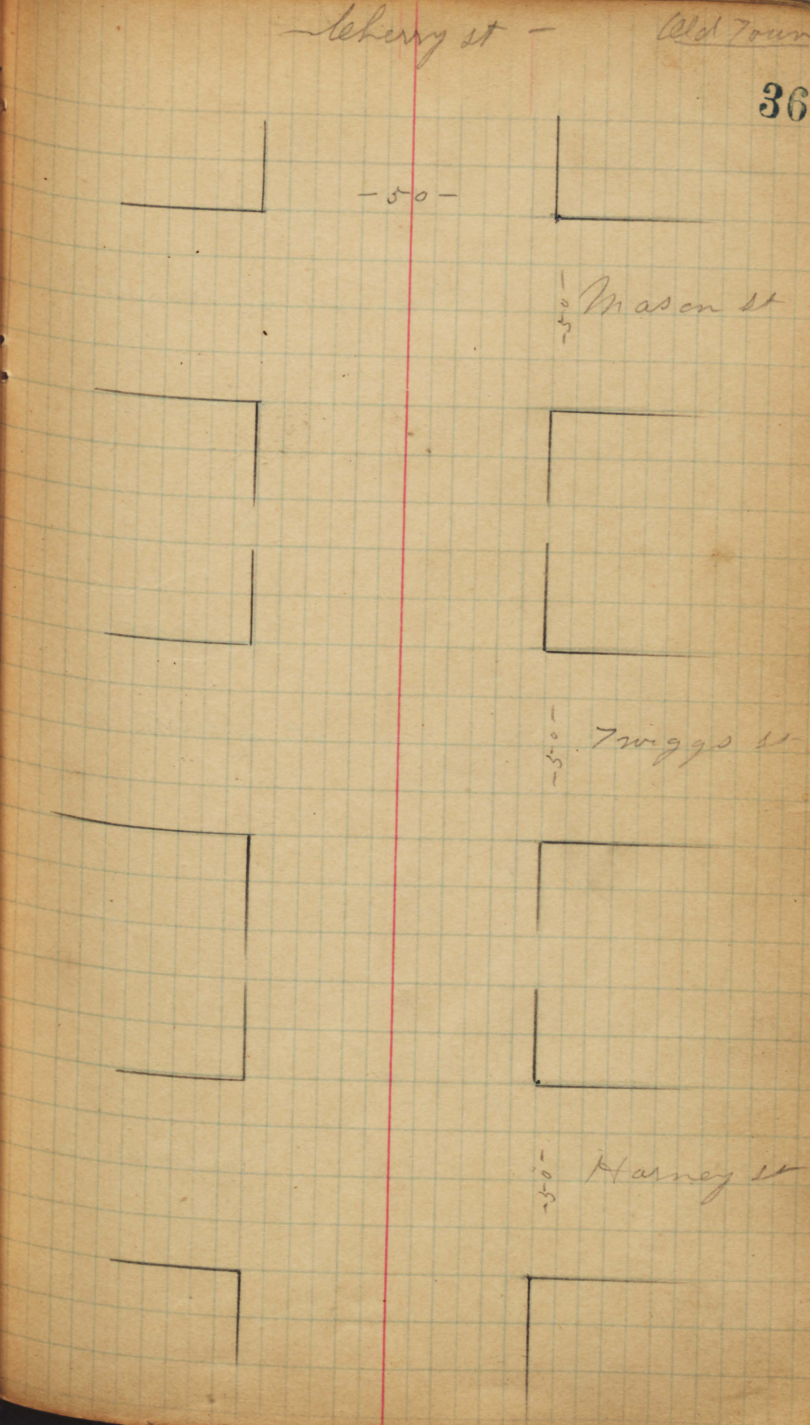

Pine St
50
Hub
Mason St
90° 03' 30"
349.90
Hub
Twiggs St
90° 03' 30"
mon
Harney St

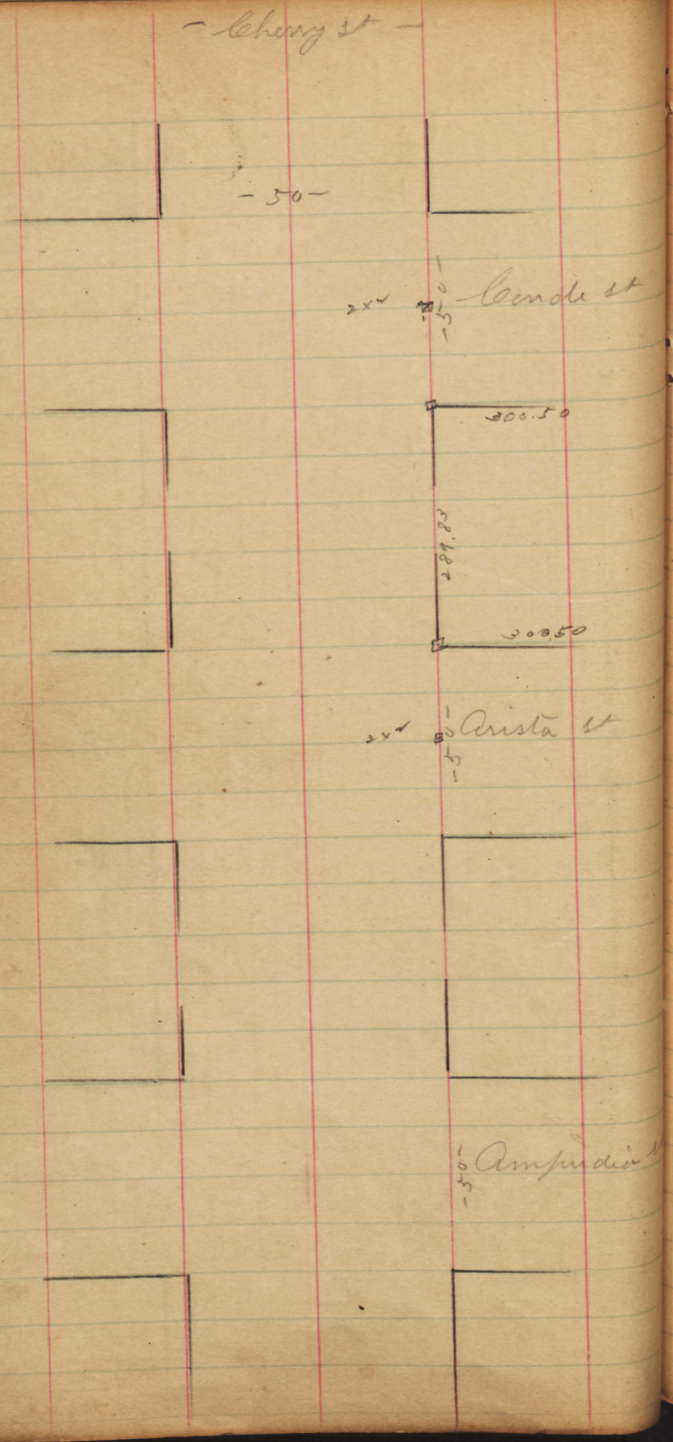

Pine St
Old Town
50
mon
Conde St
7'
hub
36'
hub
mon
Arista St
Coptack in Walk
36'
Coptack in Walk
3'
mon
Ampudia St

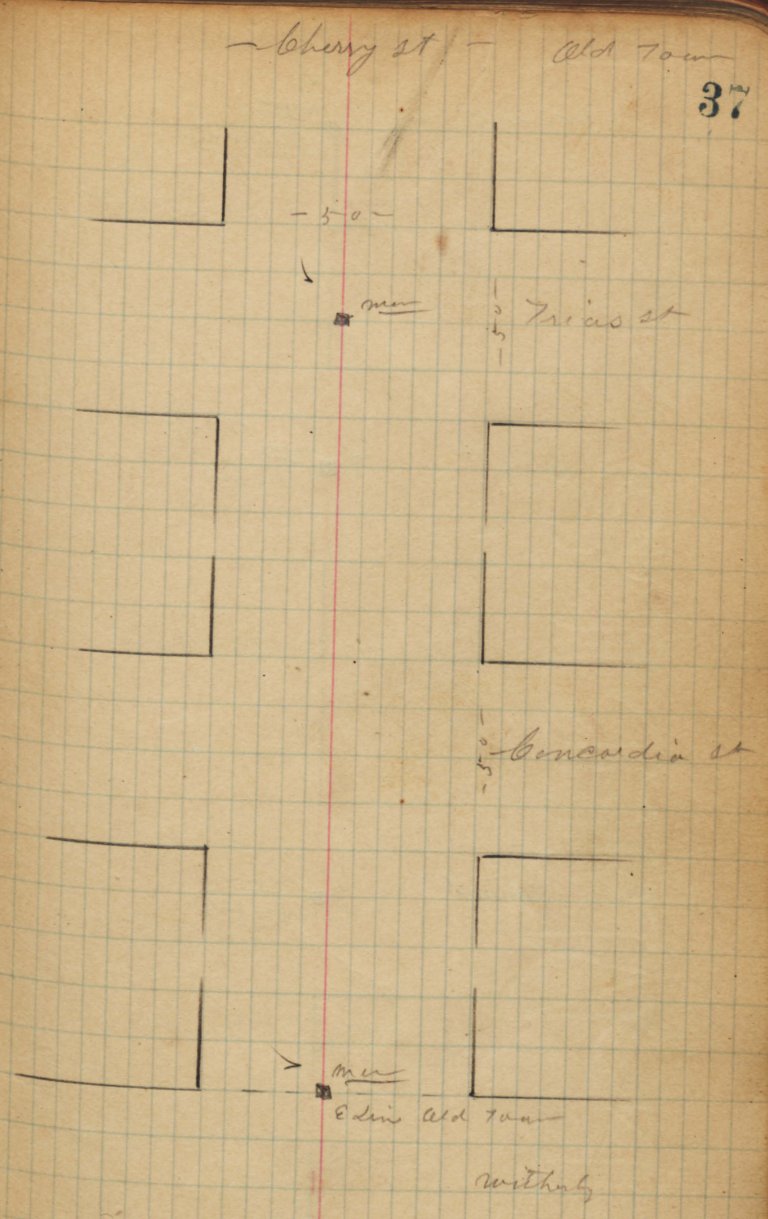

Pine st
50
mon
Truax st
50
~~Concordia~~
Hortensia
mon
E line of Old Town
wicherly st


Cherry st
Old Town
mon
Qup
Old Stone
50
Riley st
50
Gaines st
50
Scott st

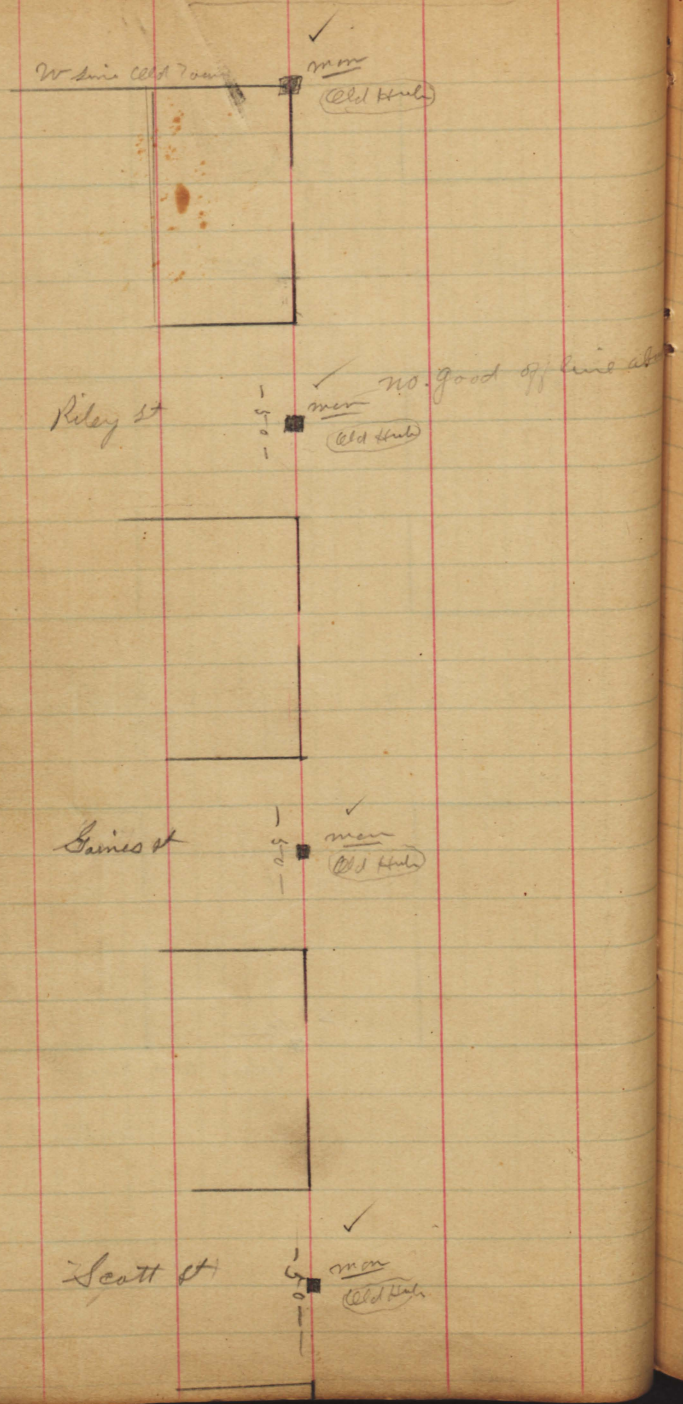

Cherry st
50
100
Taylor st
Jackson
Smith


Cherry st
Old Town
50
Mason st
Twiggs st
Harney st

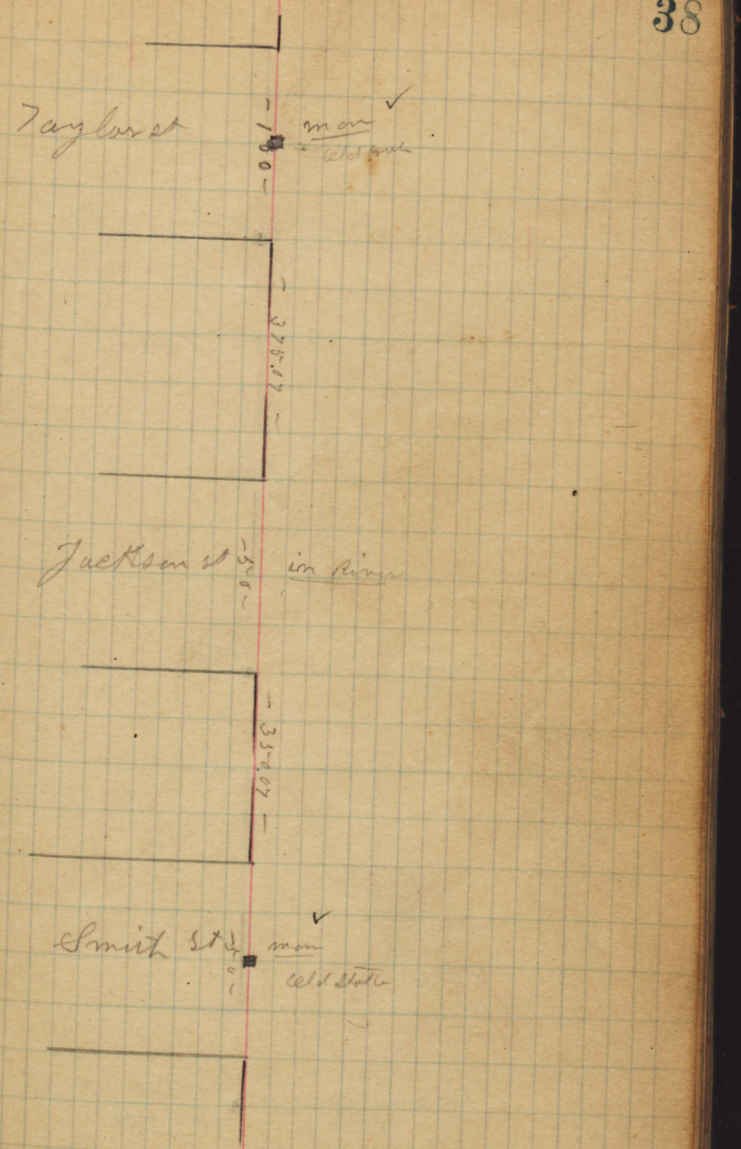

Cherry st
50
Conde st
300.50
289.83
300.50
Arista st
Ampudia st


Cherry st
Old Town
37
50
Trias st
Concordia st
E Line Old Town
Witherby

North line Old Town



North line Old Town



North Line of Old Town

Mason st — mon ✓ Old Hub

Twiggs st mon ✓

Harney st ✓ mon Old Hub

North Line of Old Town

Conde st mon Old Hub

300.50 900 031

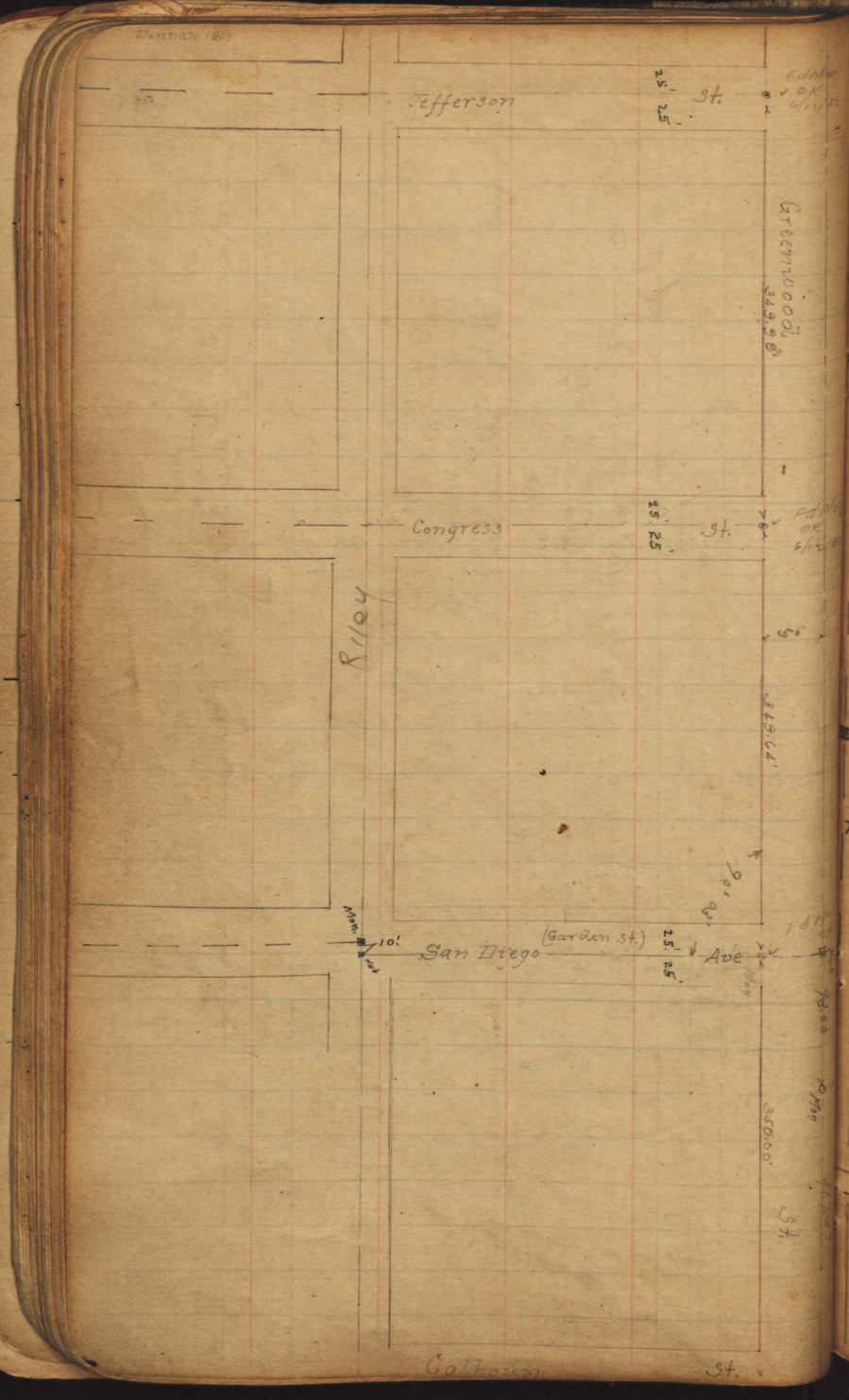
299.83

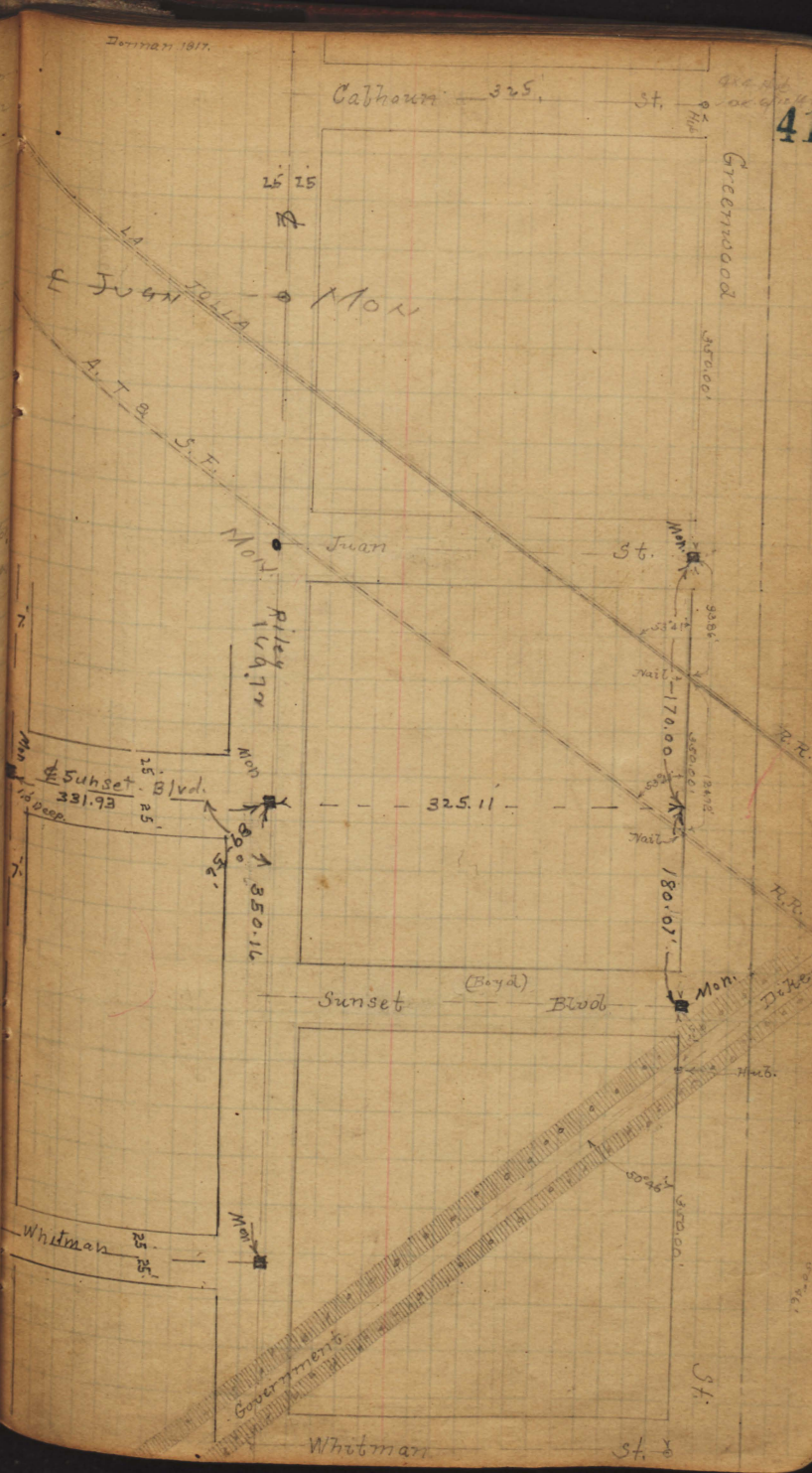
300.50 89°57'

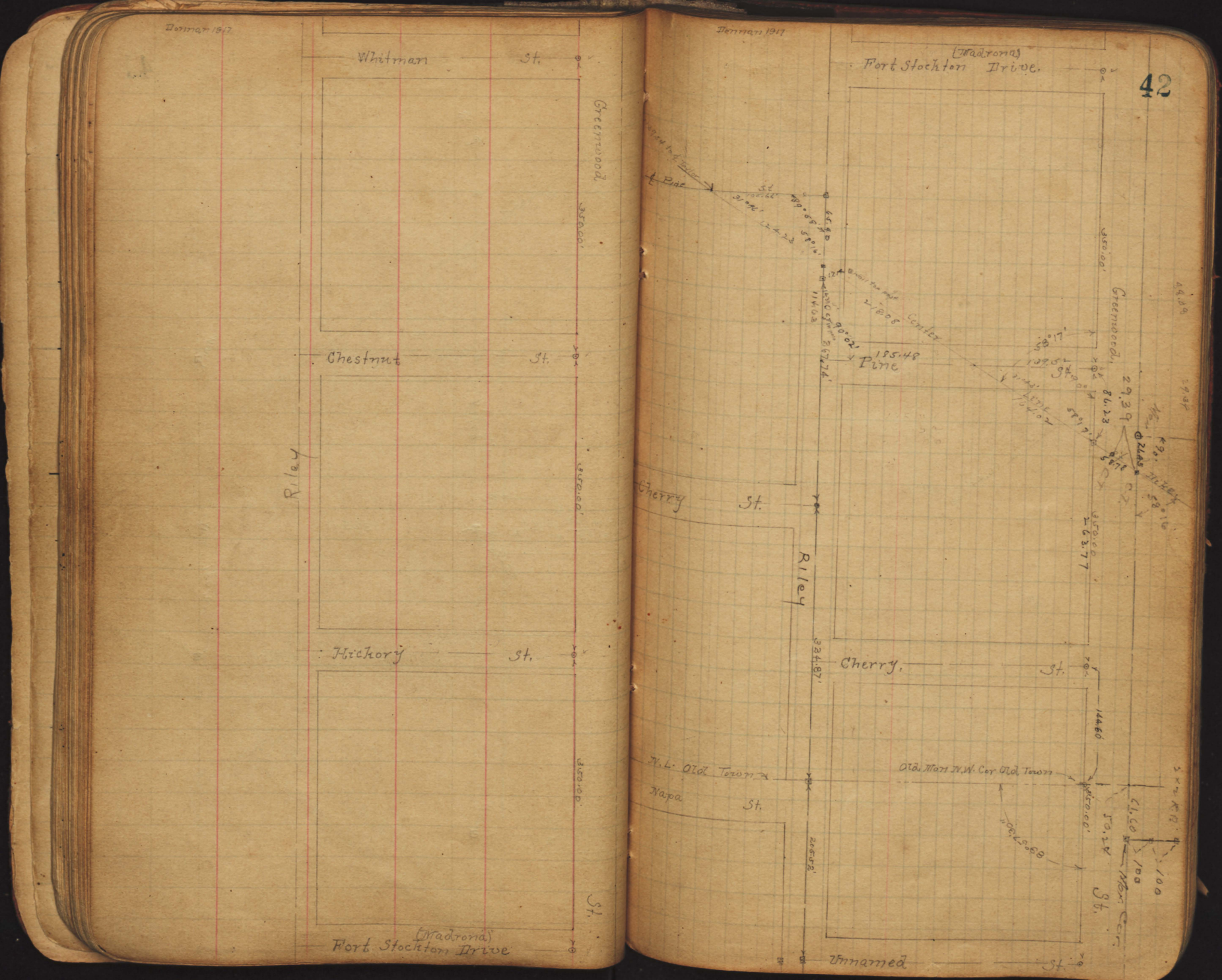
Austa st

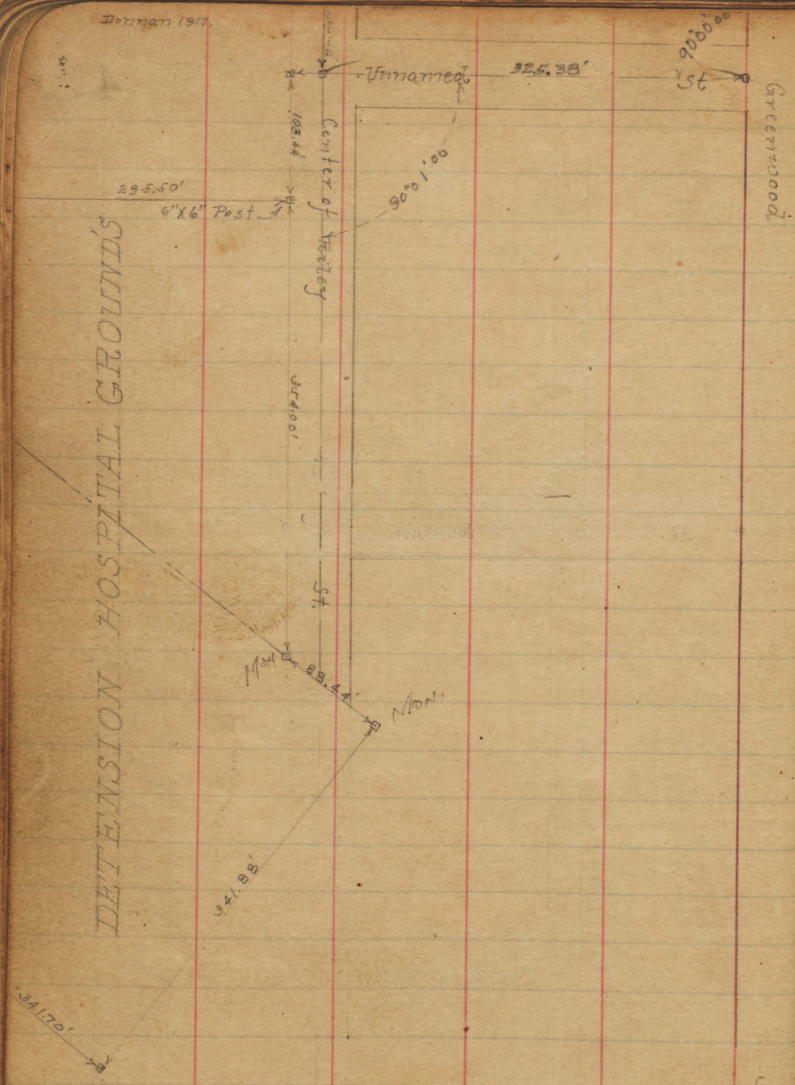
Ampudia st

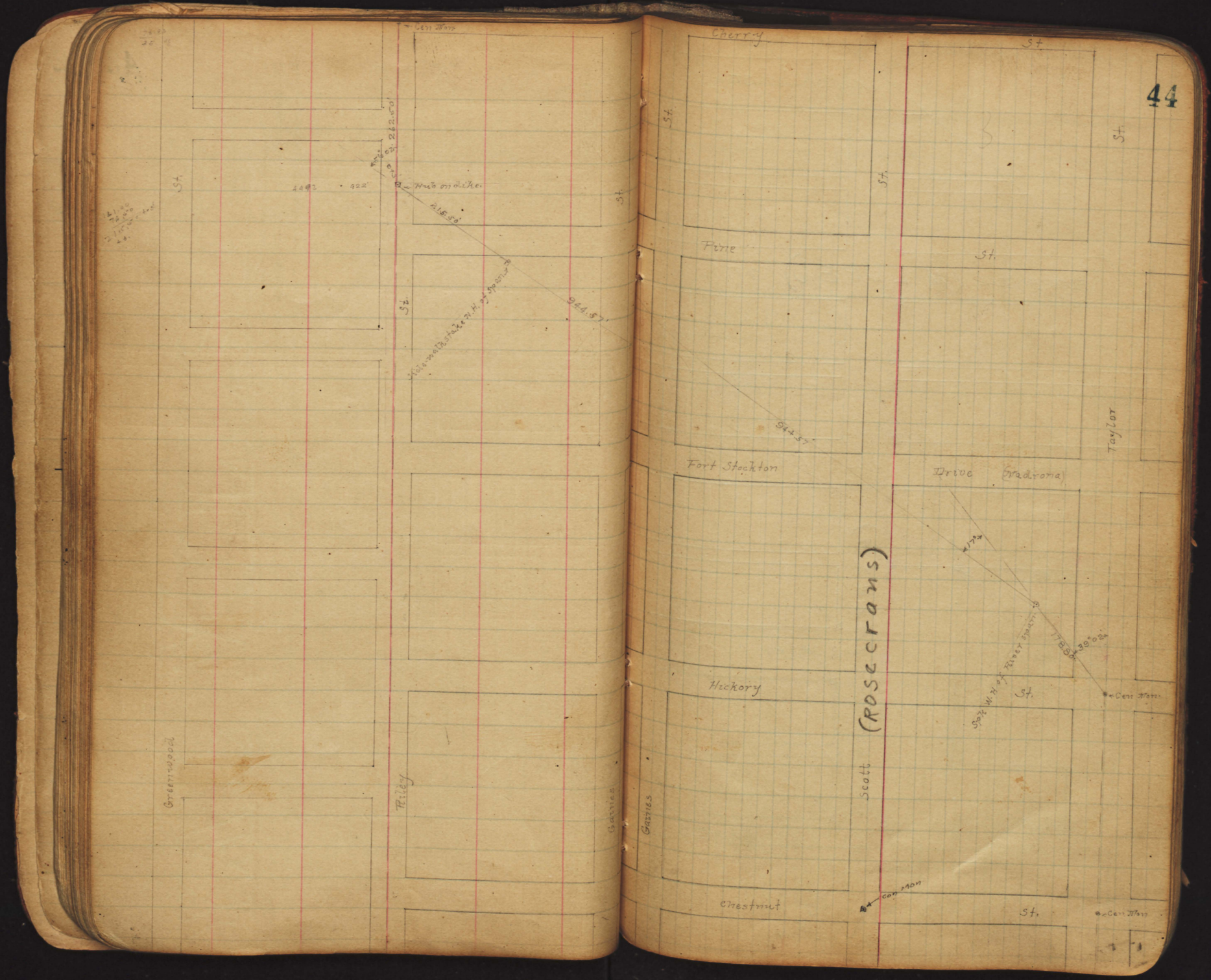
North Line of Old Town

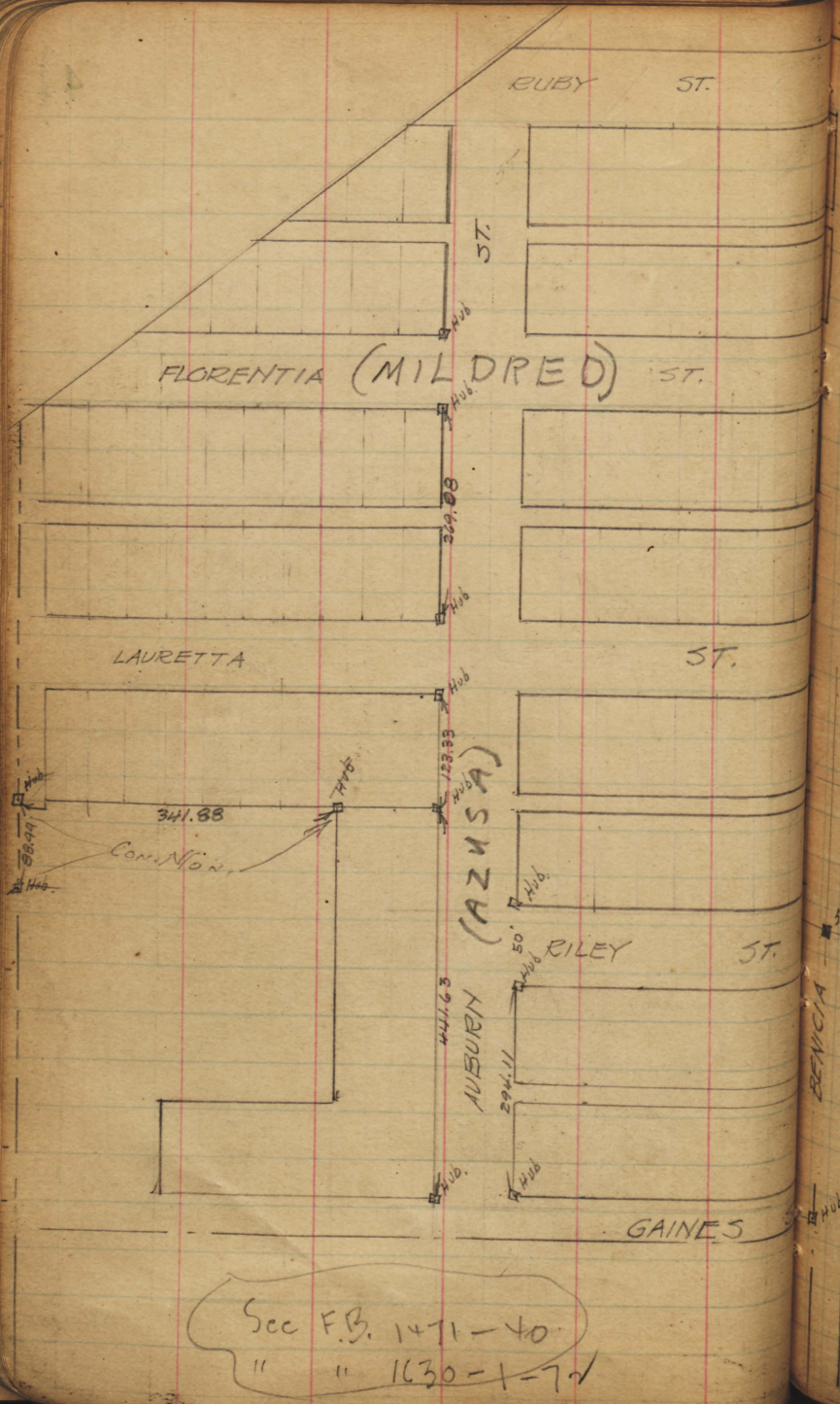

Donnan 1817
Jefferson St.
Greenwood
349.98'
Congress St.
Riley
349.64'
San Diego Ave
(Garden St.)
Calhoun St.
350.00'


Donnan 1817
Calhoun 325 St.
Greenwood
350.00'
LA JOLLA
℄ Juan Mon
A. T. & S. F.
Mon.
Juan St.
Riley
149.72
℄ Sunset Blvd.
331.93
325.11
350.16
170.00
180.07
Nail
R.R.
Sunset Blvd
(Boyd)
Mon.
Dike
Whitman
Government
Whitman St.
350.00'

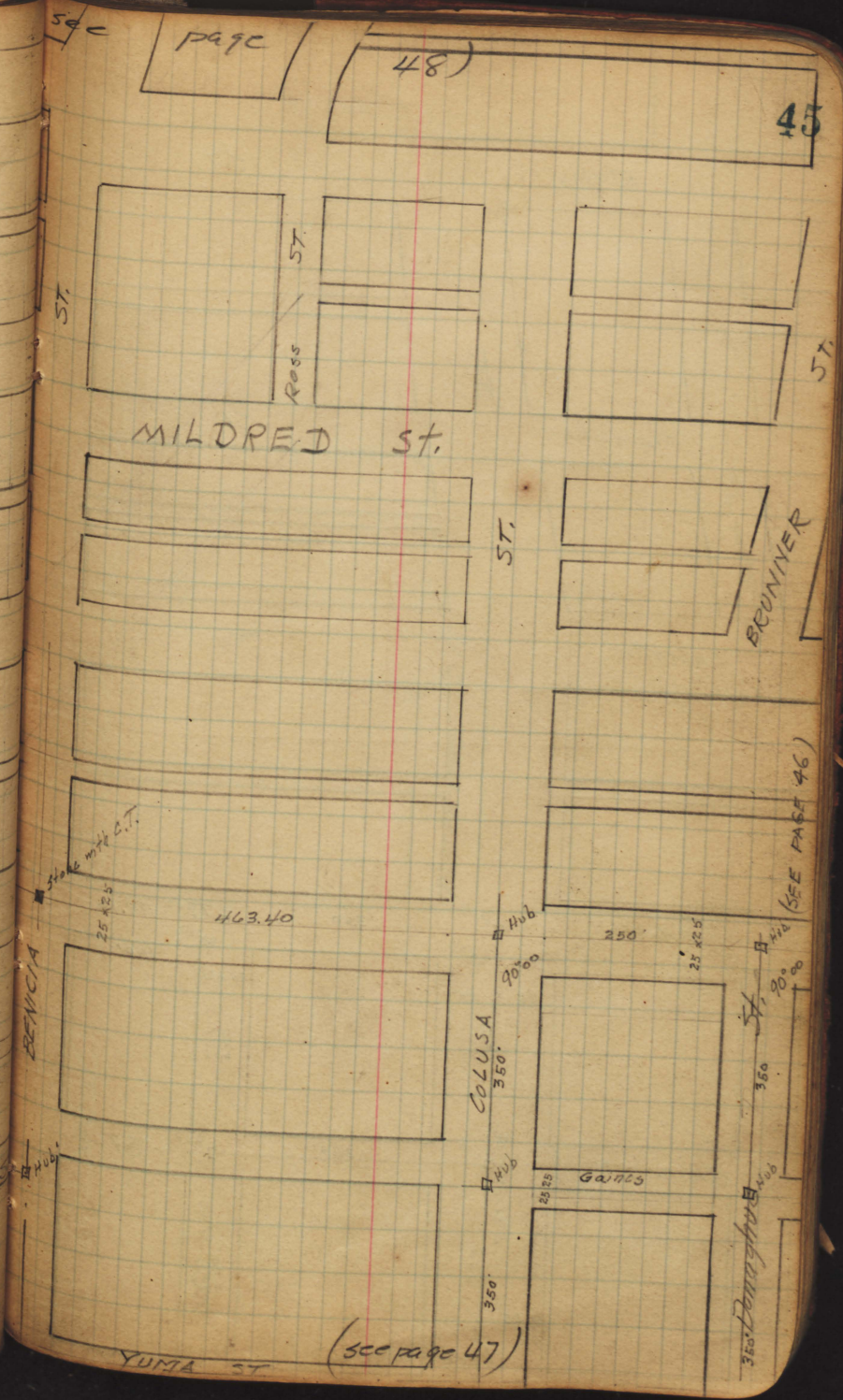

Donnan 1917
Whitman St.
Greenwood
Chestnut St.
Riley
Hickory St.
St.
(Madrona)
Fort Stockton Drive
Donnan 1917
(Madrona)
Fort Stockton Drive.
Pine St.
Center
Pine
Greenwood
Cherry St.
Riley
Cherry. St.
N.L. Old Town
Old Mon N.W. Cor Old Town
Napa St.
St.
Unnamed St.

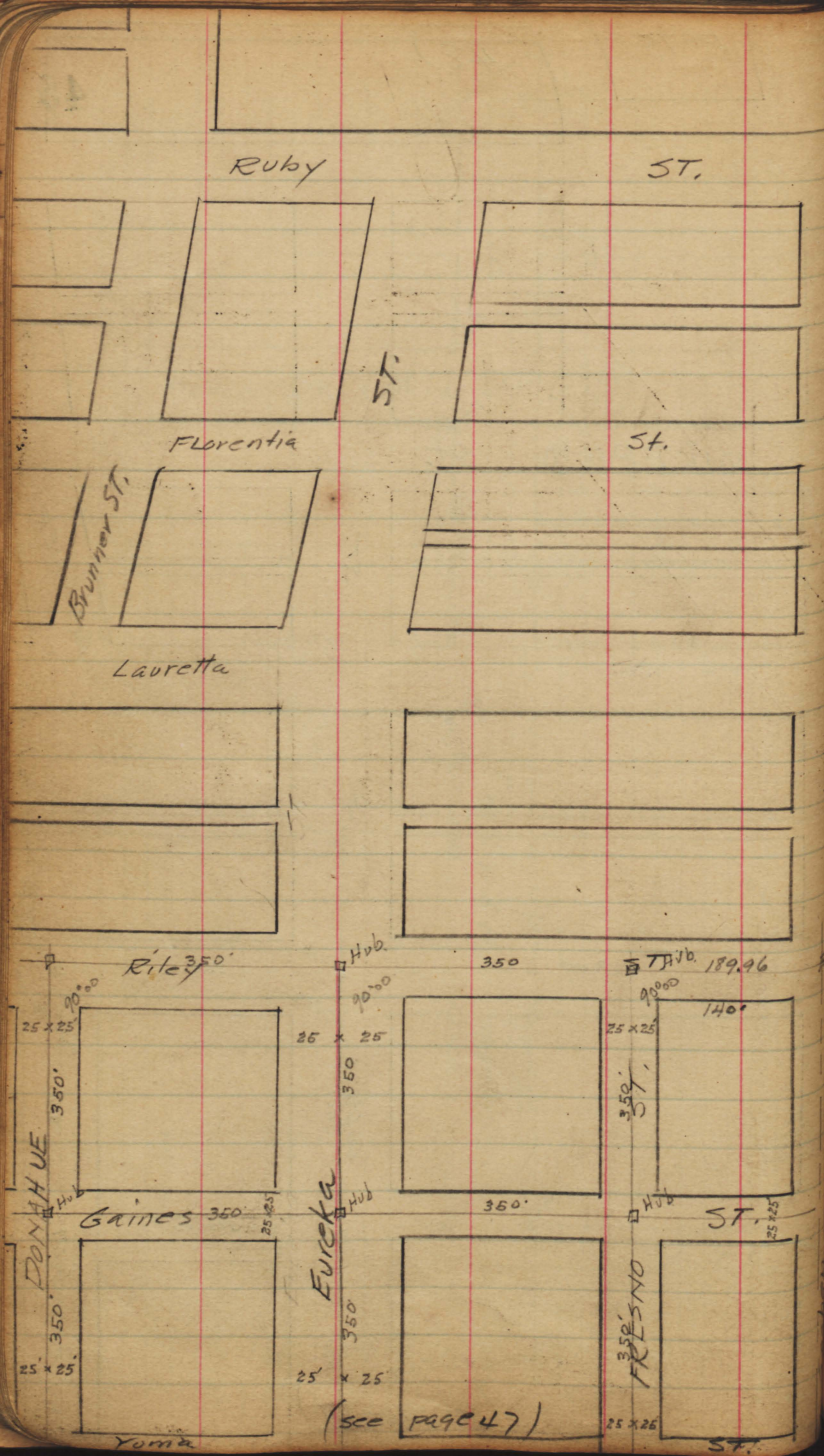

Donnan 1917.
Unnamed
325.38'
90°00'00"
St
Greenwood
103.44'
Center of Valley
90°01'00"
295.50'
6"X6" Post
354.00'
St.
DETENSION HOSPITAL GROUNDS
Mon
88.44'
Mon.
341.88'
341.70'
St.


Cen Mon
262.50'
Hub on dike
215.50'
944.57'
Side-walk stake N.H. of Spans
St.
Greenwood
Riley
Gaines
Cherry
St.
Pine
St.
Fort Stockton
Drive (Madrona)
Taylor
Hickory
St.
Scott (Rosecrans)
Chestnut
St.
Cen Mon
Cen Mon
Cen Mon
178.80'
39°02'
Soft W.H. of River Spans

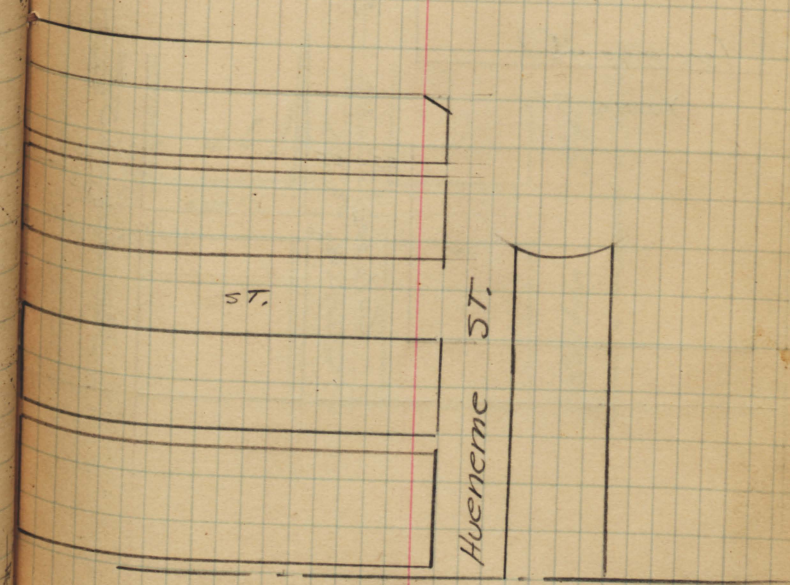


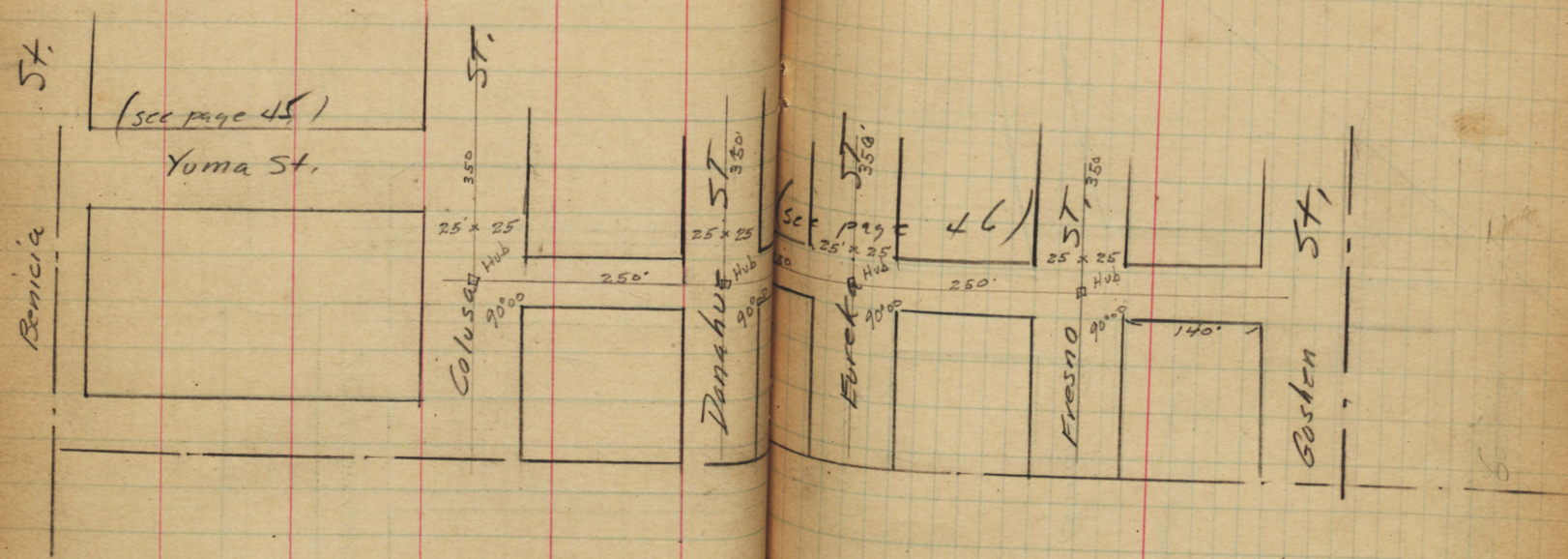
See F.B. 1471-40
" " 1630-1-7

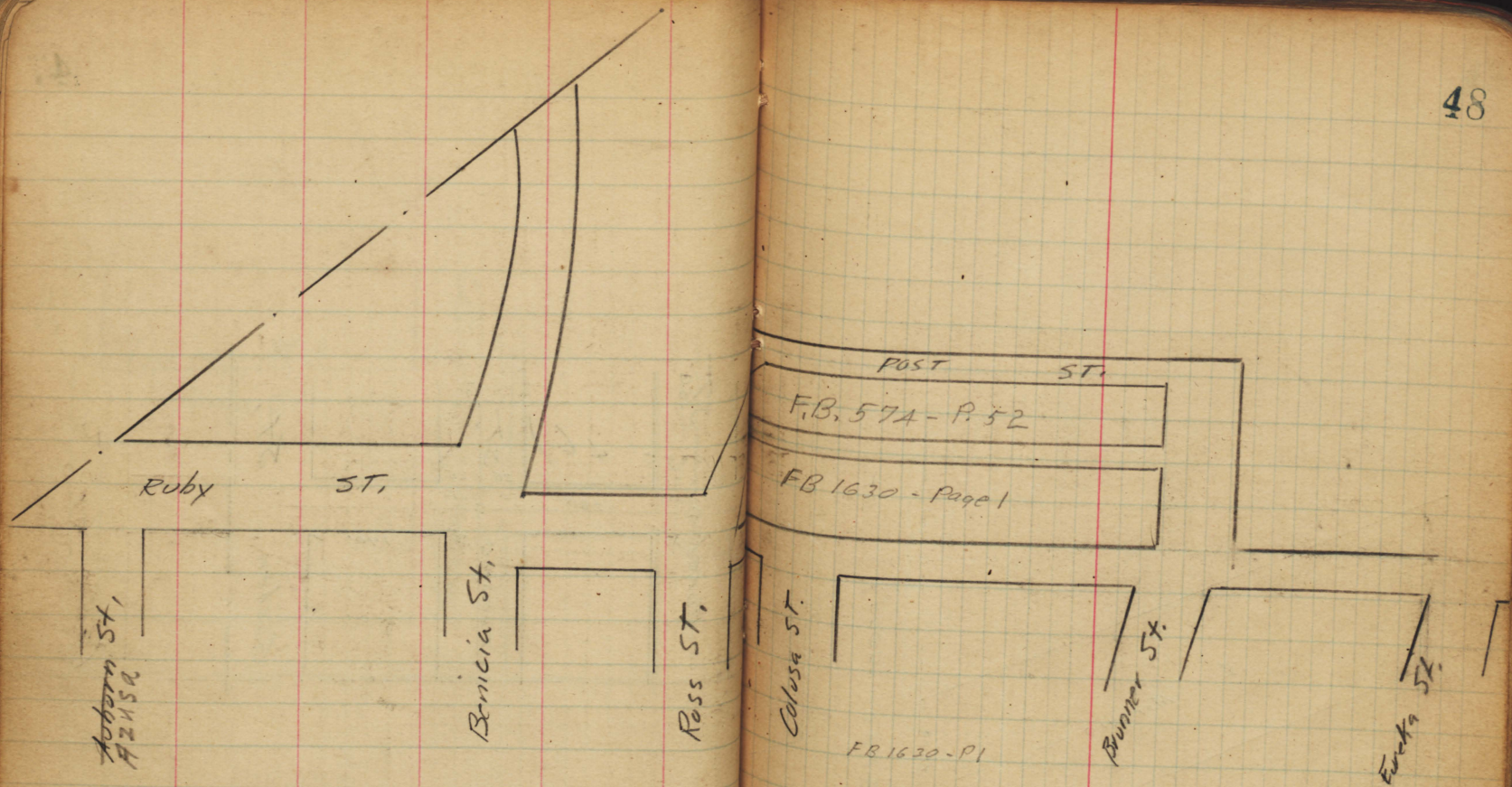


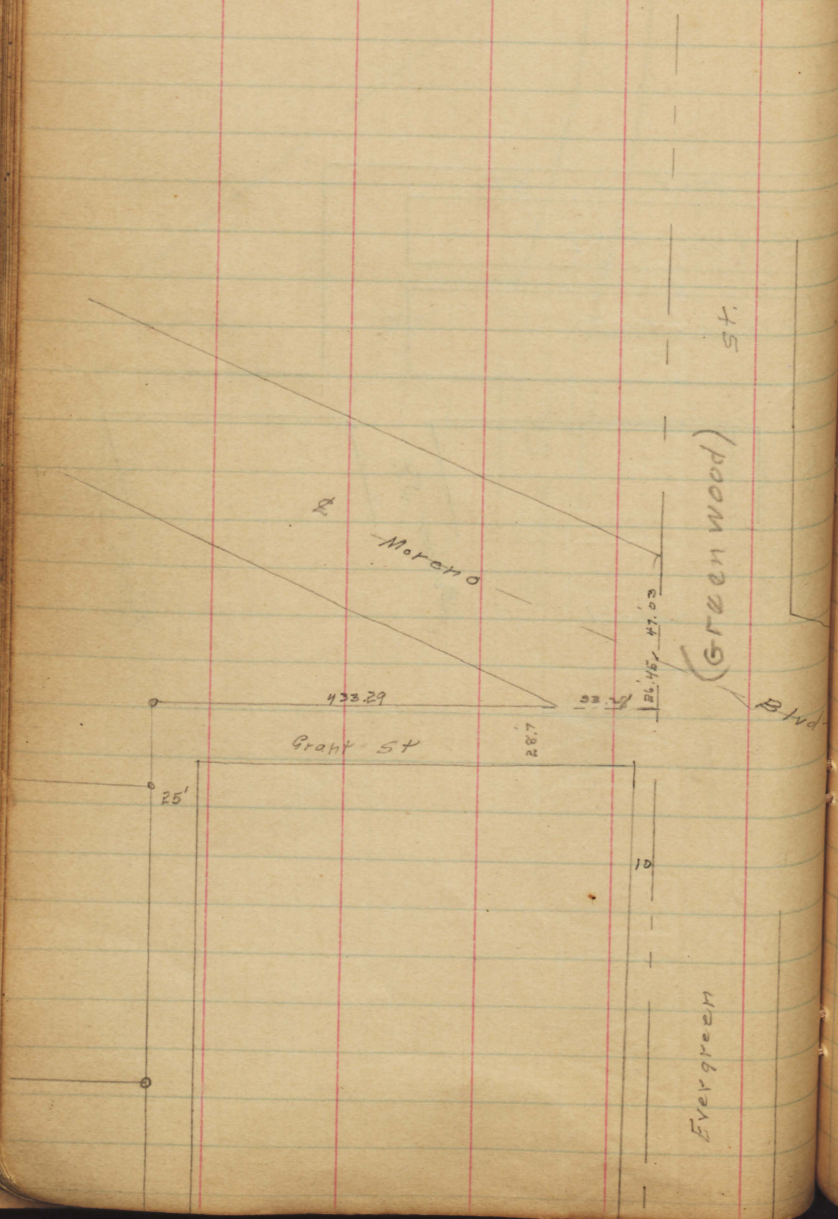

Ruby
ST.
ST.
Florentia
St.
Brunner ST.
Lauretta
Riley
350'
Hub
350
Hub
189.96
90°00
90°00
90°00
140'
25 x 25
25 x 25
25 x 25
350'
350
350'
ST.
DONAHUE
Hub
Gaines
350'
25 x 25
Hub
350'
Hub
ST.
25 x 25
Eureka
350'
350'
FRESNO
350'
25' x 25
25' x 25
25 x 25
Yuma
ST.

(see page 47)

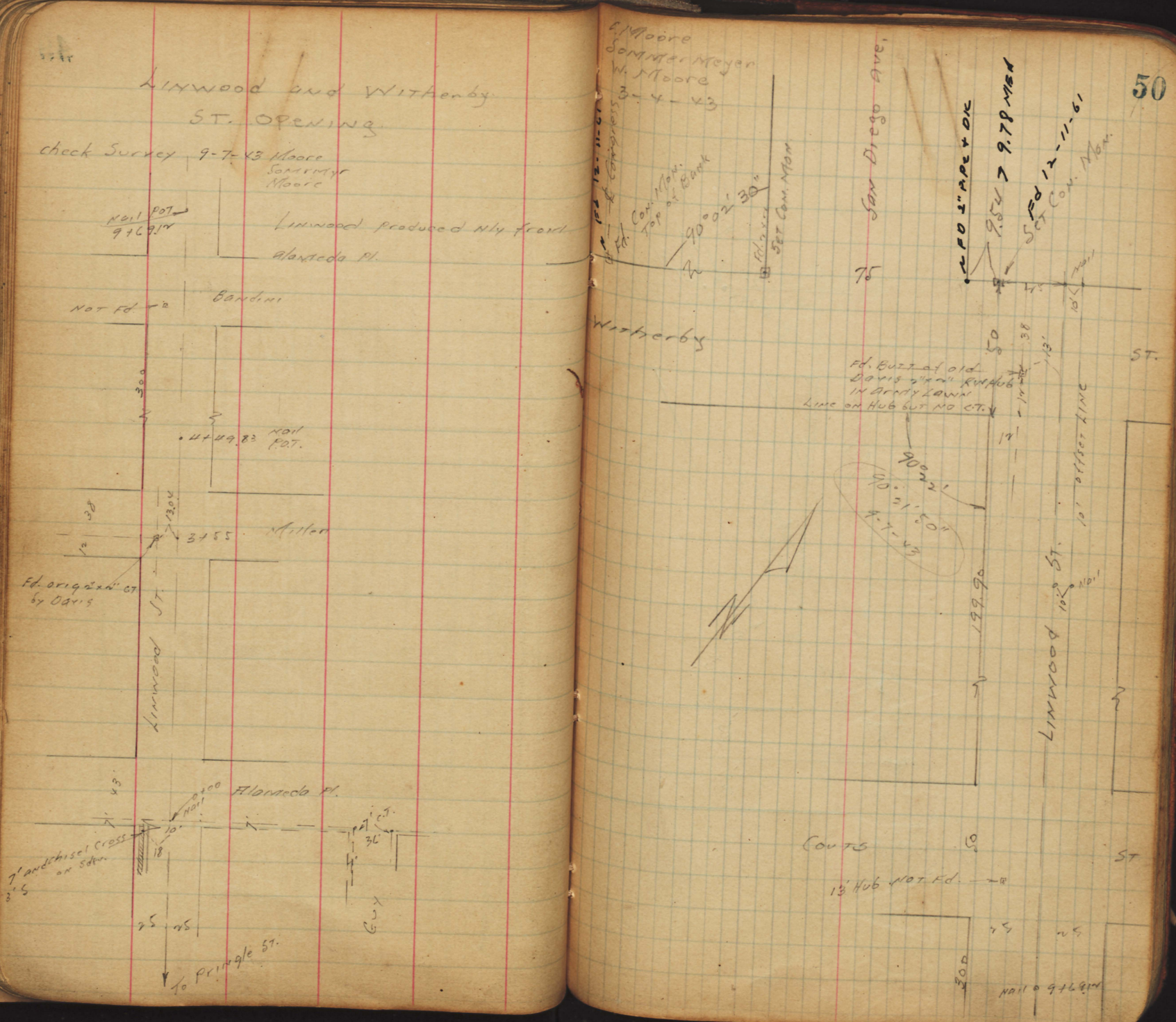

ST.
Hueneme ST.


St.
(see page 45)
Yuma St.
Benicia
ST.
350
25' x 25
Hub
90°00
Colusa
250'
ST
350'
25 x 25
Hub
90°00
Danahue
(see page 46)
ST
350'
25' x 25
Hub
90°00
Eureka
250'
ST
350
25 x 25
Hub
90°00
Fresno
140'
St.
Goshen


Ruby ST.
Auburn St.
A 2158
Benicia St.
Ross ST.
POST ST.
F.B. 574 - P. 52
FB 1630 - Page 1
Colusa ST.
FB 1630 - P1
Brunner St.
Eureka St.

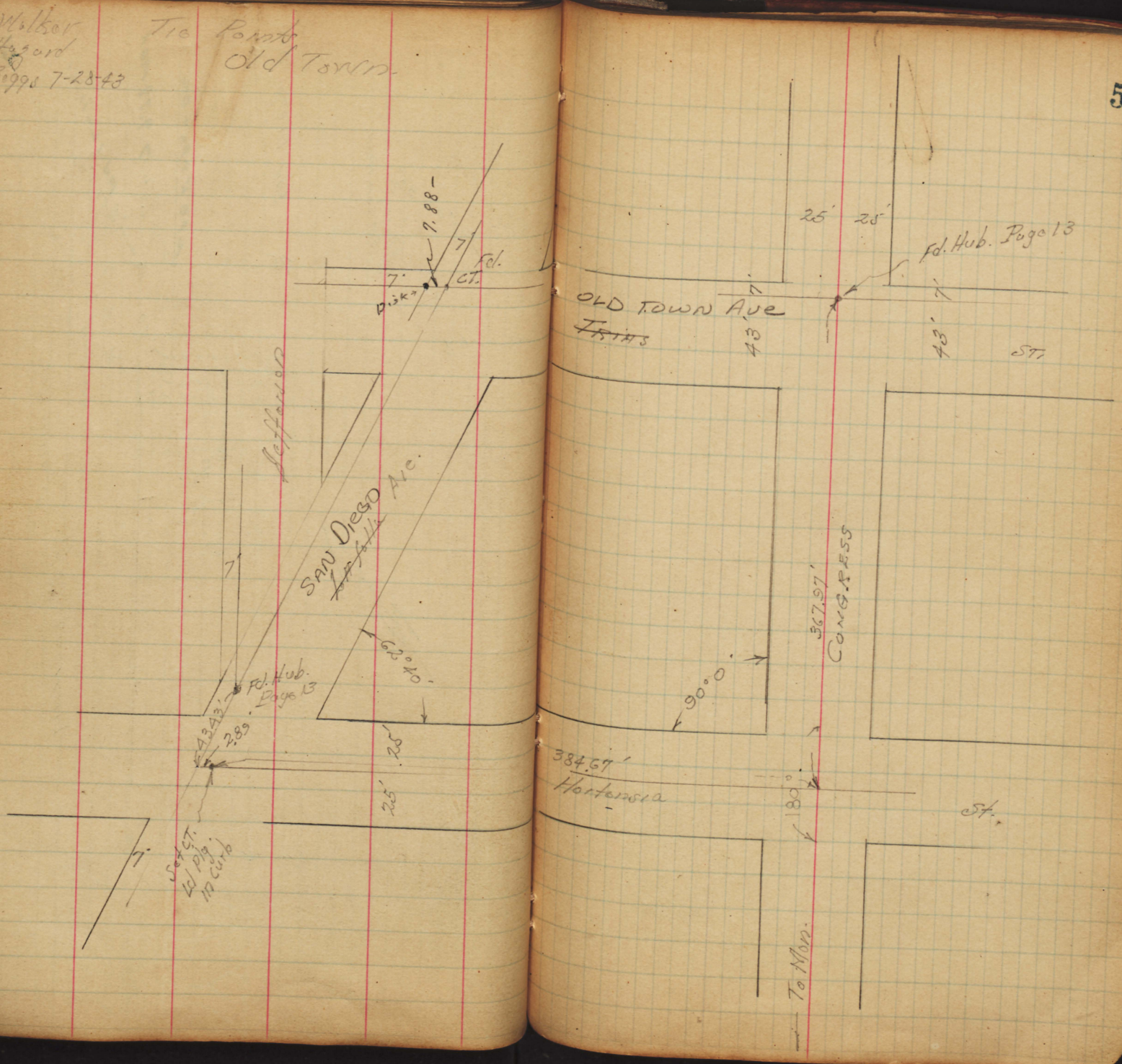


℄ Moreno
(Greenwood) St.
Blvd
433.29
33.34
26.45
47.03
28.7
Grant St
25'
10
Evergreen


Linwood and Witherby
St. Opening
check Survey 9-7-43 Moore
Sommer Moore
Nail POT
9+69.12
Linwood produced Nly from
Alameda Pl.
Not Fd.
Bandini
300
4+49.83 Nail POT.
38
13.04
3+55
Miller
Fd. orig 2"x2" CT by Davis
Linwood St.
43
Alameda Pl.
Nail
10'
18
7' and chisel cross on Sdw.
3' S
25
25
To Pringle St.
Guy
C. Moore
Sommer Meyer
W. Moore
3-4-43
Fd. 12-11-61
Fd. Con. Mon. Top of Bank
90°02'30"
Set Con. Mon.
San Diego Ave.
75
Fd 2" pipe + DK
9.54 > 9.78 MEA
Fd 12-11-61
Set Con. Mon.
Nail
Witherby
ST.
Fd. Butt of old Davis 2"x2" RW Hub in Army Lawn
Line on Hub but no C.T.
90°22'
90°21'50"
9-7-43
199.90
10' offset line
Linwood St.
Nail
Coutts
ST
13' Hub Not Fd.
300
Nail 9+69.12

Walker Hazard Boggs 7-28-43

Tie Points Old Town



Ruby

6/5/23 Gregory Levels ~~Atlantic St~~ Pacific Hwy 100' wide
GRAPE TO LAUREL

	1.30	18.70		17.40	
		N.L GRAPE St			
			12.31	6.39	on curb
E			10.3	8.4	
C			10.7	8.0	
W.			11.1	7.6	
		75' N.			
W			11.2	7.5	
C			10.7	8.0	
E			9.8	8.9	
		100' N			
E			9.4	9.3	
C			9.5	9.2	
W			9.7	9.0	
		200' N			
W			9.1	9.6	
C			9.3	9.4	
E			8.9	9.8	
		300' N = S.L. Hawthorn 80' wide			
E			8.4	10.3	
C			7.8	10.9	
W			8.4	10.3	
		℄ Hawthorn			
W			9.1	9.6	
C			8.9	9.8	
E			8.0	10.7	
		N.L Hawthorn			
E			7.2	11.5	
C			7.6	11.1	

W			8.8	9.9	
		100' N			
W			9.1	9.6	
C			7.3	11.4	
E			5.5	13.2	
		140' N			
E			5.0	13.7	
C			7.7	11.0	
W			9.4	9.3	
		200' N			
W			9.9	8.8	
C			8.3	10.4	
E			5.8	12.9	
		300' N = S.L Ivy 80' wide			
E			8.2	10.5	
C			9.0	9.7	
W			10.1	8.6	
		℄ Ivy			
W			10.4	8.3	
C			9.9	8.8	
E			9.3	9.4	
		N.L Ivy			
E			8.8	9.9	
C			10.2	8.5	
W			10.6	8.1	
		100' N.			
W			10.5	8.2	
C			10.2	8.5	

18.70

E			8.0	10.2
		200' N		
E			6.5	12.2
C			9.9	8.8
W			10.5	8.2
		300' N = S.L. JUNIPER		80' wide
W			10.1	8.6
C			9.4	9.3
E			7.3	11.4
T.P.	5.37	14.62	9.45	9.25
		& JUNIPER		
E			3.1	11.5
C			4.6	10.0
W			5.5	9.1
		N.L. JUNIPER		
W			6.6	8.0
C			5.7	8.9
E			4.5	10.1
		100' N		
E			2.5	12.1
C			4.5	10.1
W			6.4	8.2
		200' N		
W			6.1	8.5
C			4.0	10.6
E			4.3	10.3
		300' N = SL Kalmia		
E			3.5	11.1
C			5.2	9.4

14.62

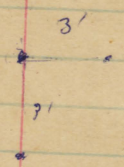
W			5.9	8.7
		3' N. of S.L. Kalmia		
E			3.0	11.6
		4' N. of SL Kalmia		
E			7.5	7.1 & goes down into ditch also
		19' N. of SL		
E			7.2	7.4
		26' N. of SL.		
E			3.4	11.2
		N.L. Kalmia		
E			5.8	8.8
C			5.1	9.5
W			4.8	9.8
		10' N.		
W			10.7	3.9
		35' N		
W			8.5	6.1
		70' N		
W			8.4	6.2
		100' N		
W			6.0	8.6
C			5.1	9.5
E			5.3	9.3
		135' N		
E			6.3	8.3
C			5.4	9.2
W = & Railroad			8.70	5.9 Top of rail

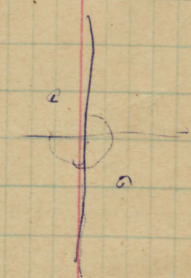
1462

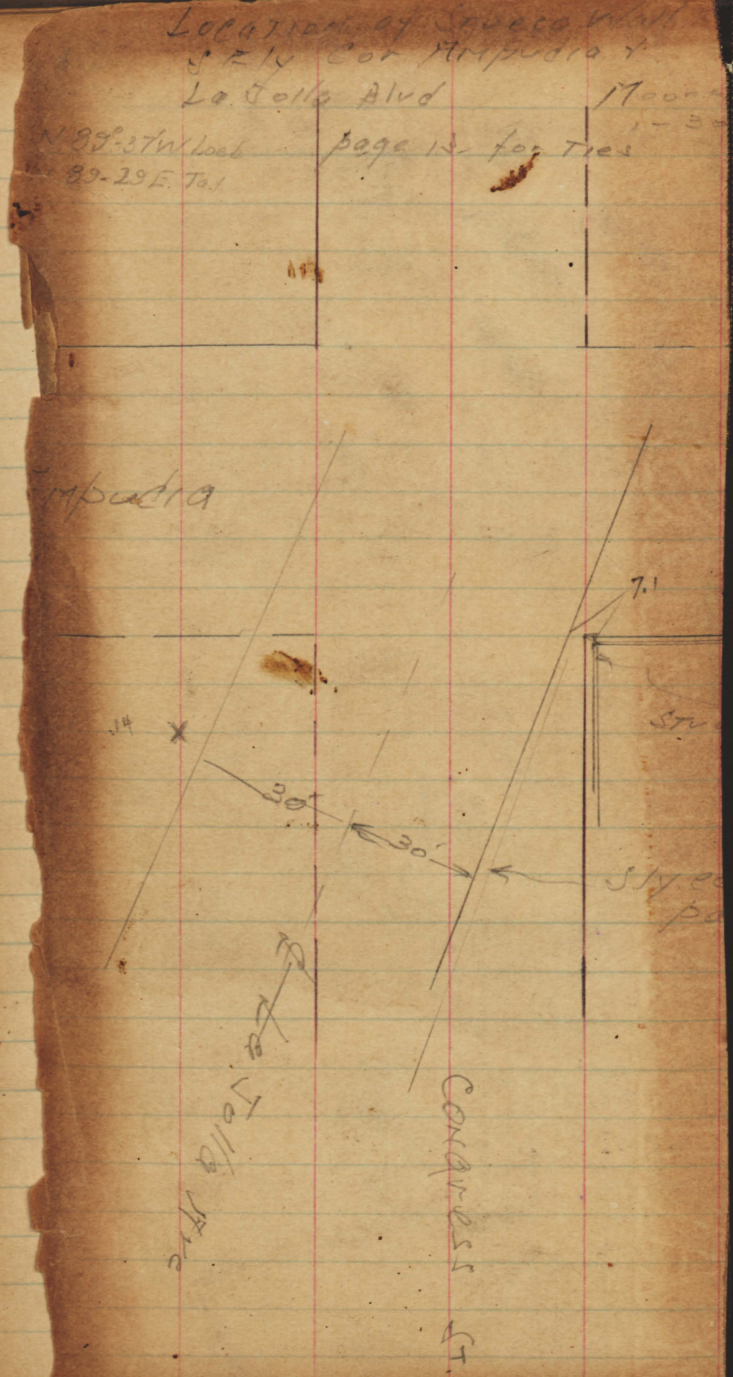
	175' N			
W		6.5	9.1	
C		8.4	6.2	
E		7.0	7.6	
	300' N			
E		7.7	6.9	
C		8.5	6.1	
W		8.5	6.1	
	231' N			
W		10.6	4.0	
C		4.4	10.2	
E = ℄ Railroad spur		6.98	7.64	Top rail
	238' N			
W		7.0	7.62	
	300' N = S.L. Laurel			
E		4.9	9.7	
C		4.3	10.3	
W		6.6	8.0	
chk BM		1.27	13.35	= 13.38 Top Hyd Ny.

200

℄ Cong to SD 362 cm







S. CROCKER COMPANY, Stationers, Drawing
Mathematical Instruments, San Francisco.

the difference of latitude and departure in
hains at any course from 1 to 60 minutes.

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

E FOR RUNNING ON SLOPES.

lable the first column shows the angle, the second the
inks to be added to a chain on the slopes, to make one
ontal measurement.

ANGLE	COR. IN LINKS	ANGLE	COR. IN LINKS	ANGLE	COR. IN LINKS
°		°		°	
11	1.88	18	5.14	25	10.54
12	2.24	19	5.76	26	11.26
13	2.63	20	6.42	27	12.24
14	3.06	21	7.11	28	13.37
15	3.53	22	7.85	29	14.34
16	4.02	23	8.64	30	15.47
17	4.56	24	9.47	35	22.07