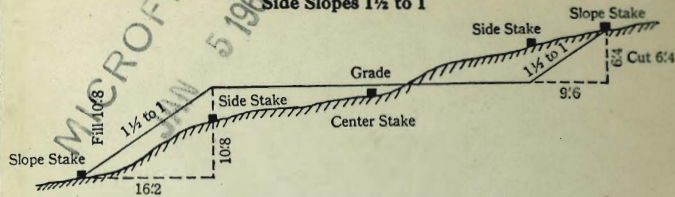


DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
Roadway of any Width
Side Slopes 1½ to 1



In the figure above: Opposite 6 under "Cut or Fill" and under .4 read 9:6 the distance from the side stake to the slope stake at right. Opposite 10 under "Cut or Fill" and under .8 read 16:2, the distance from the side stake to the slope stake at the left.

Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

EUGENE DIETZGEN CO.

7F837
7F838
2280

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Made in U. S. A.

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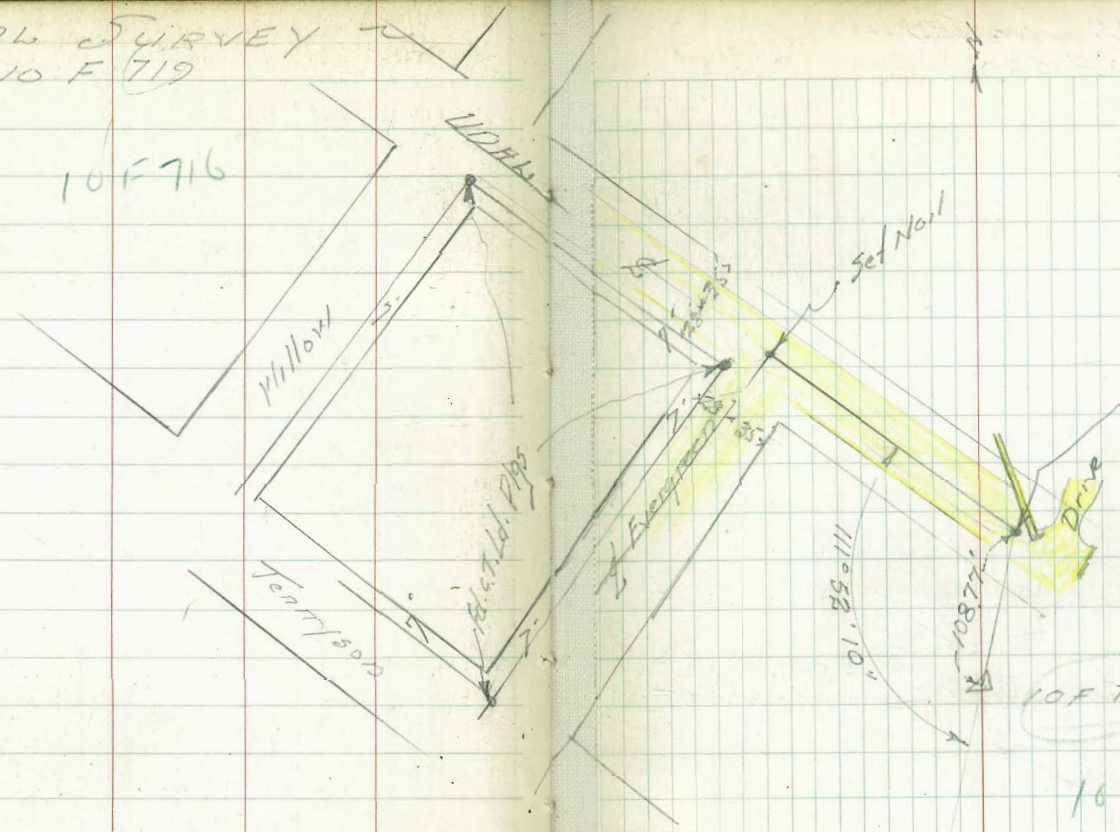


AERIAL SURVEY

Walker
Paper
7-12-53

10 F 719

10 F 716



Set Nail & DISC
in Expansion
Joint Conc. Pav.
Approx. 1 NW of
App. Conc. Well

10 F 719 Set Mark.

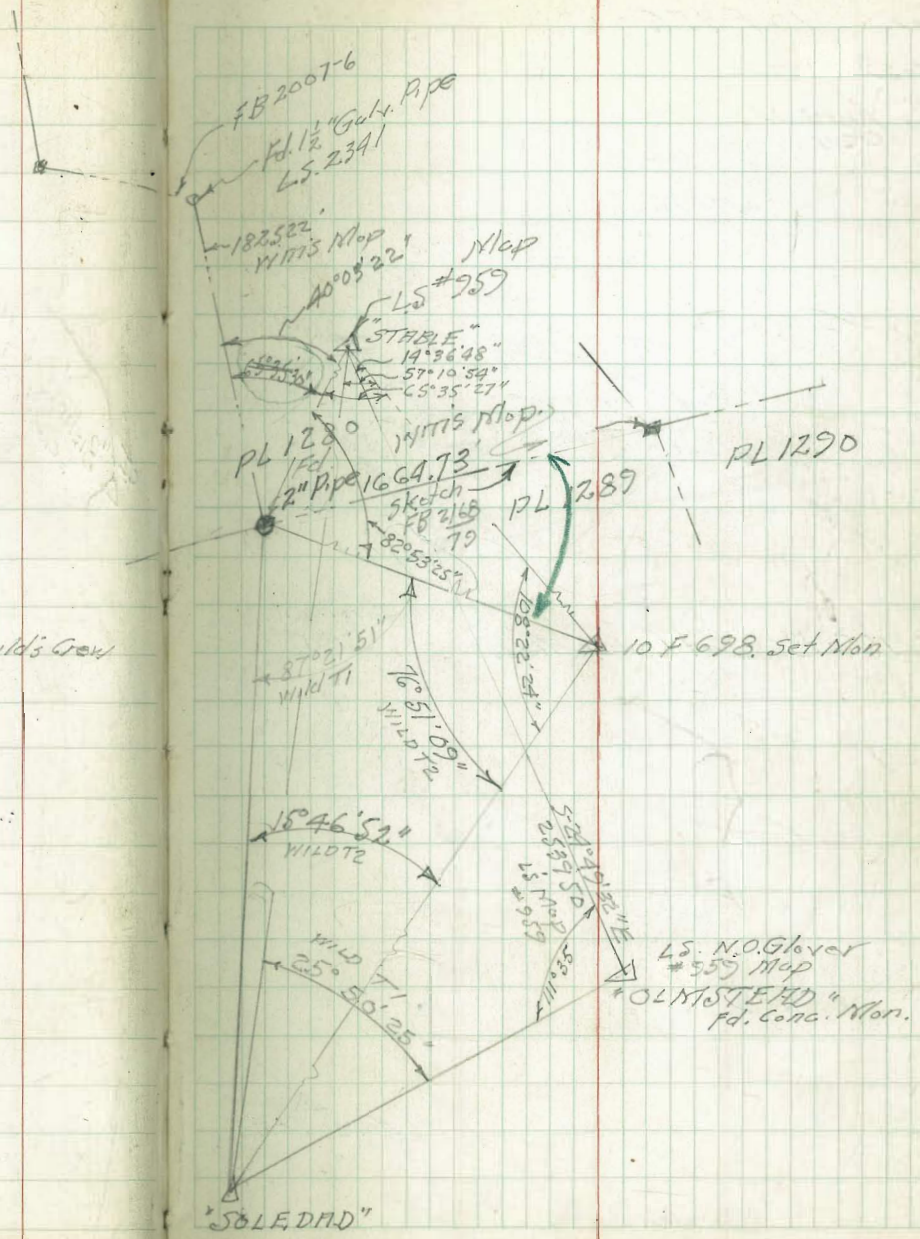
10 F 716?

Spanish
Light House

AERIAL SURVEY

Walker
 Page 11-13-53
 Brennan
 Hunter Fairchild
 crew

10 F 698 Set Conc. Mon. Elev. by Fairchild's Crew

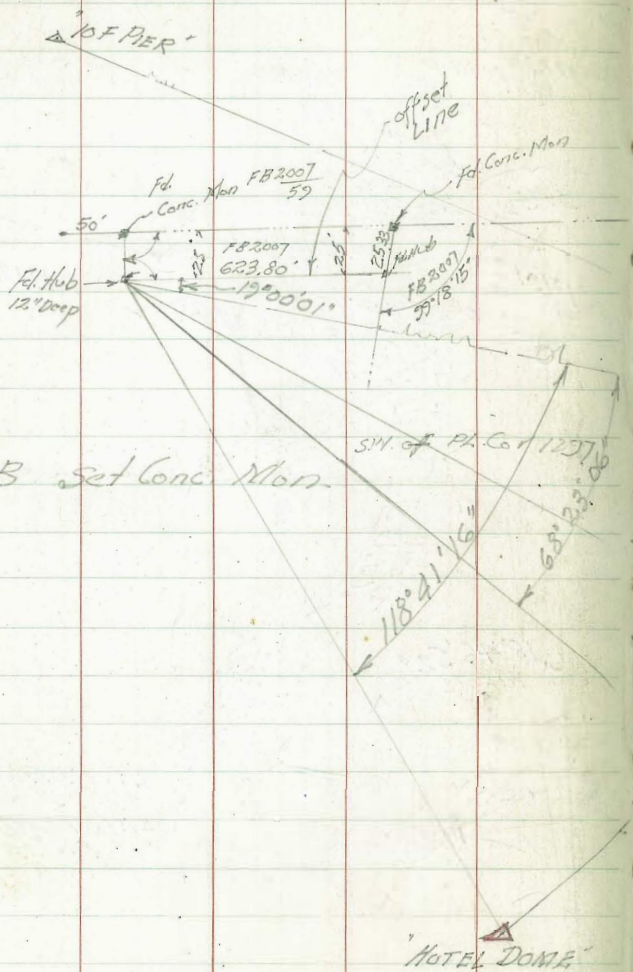


AERIAL SURVEY

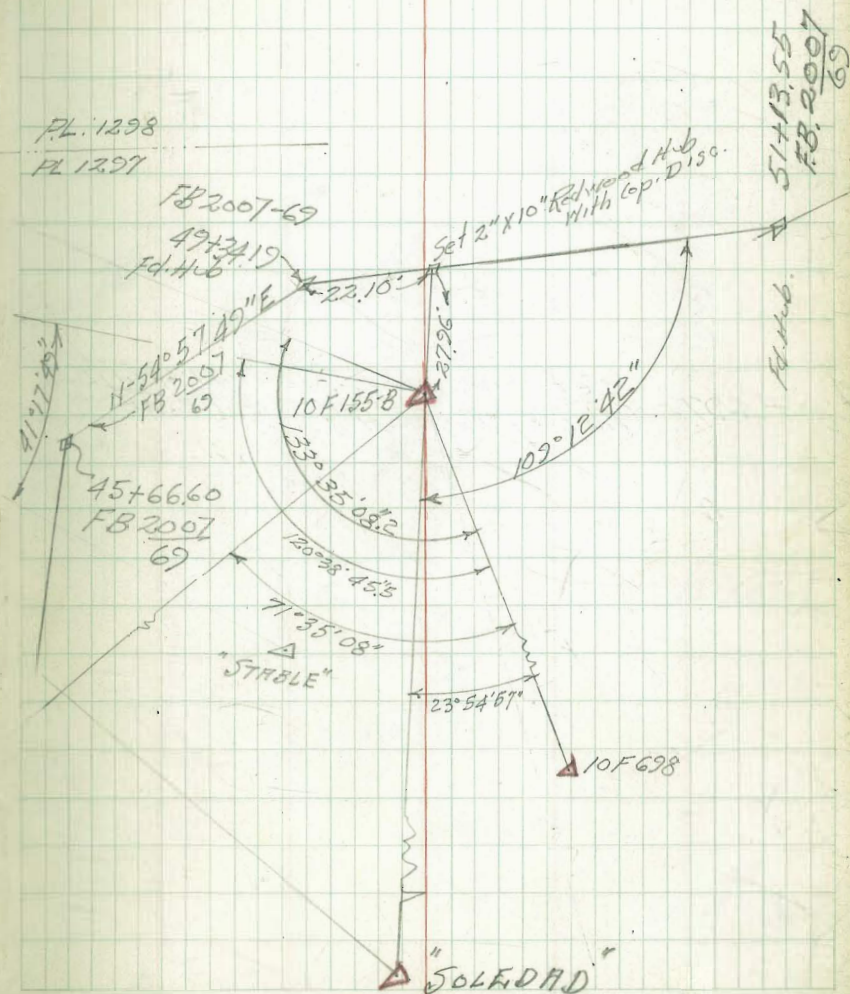
Walker 10 F 155-B

Pope 1-13-52

(Brenner) Fairchild
Hunter crew



PL 1298
PL 1297



AERIAL SURVEY

Walker 10 F 697

Pope 1-13-53

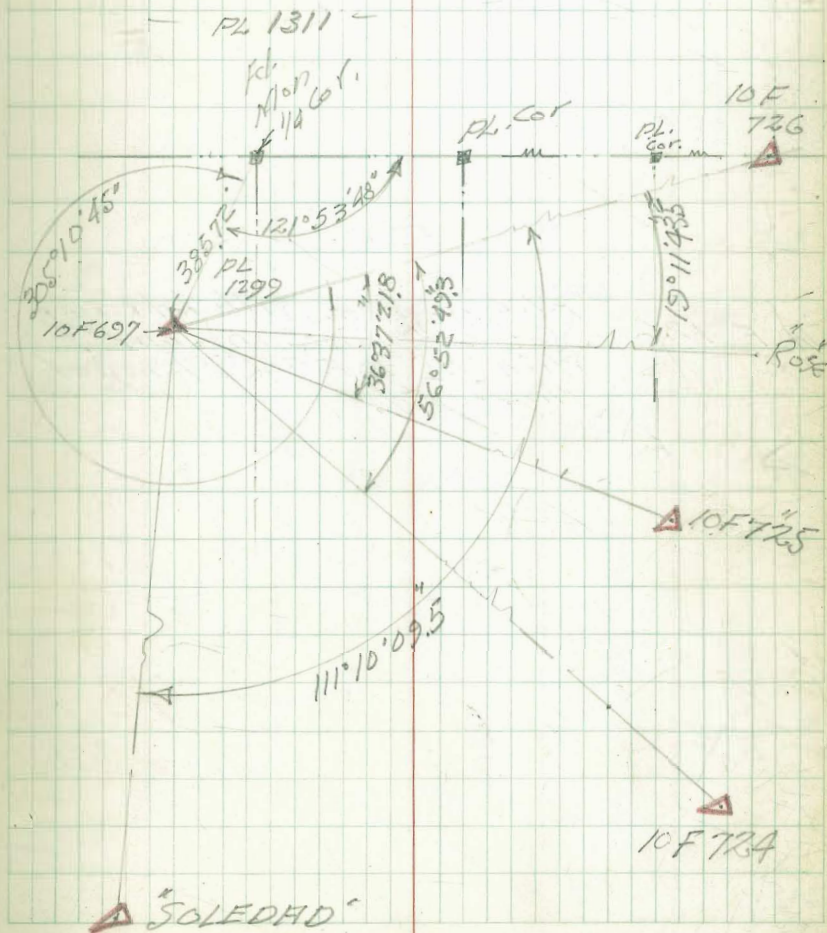
(Brennan) Fairchild
Huntel Party

Angles = "MILD THEODOLITE"
72

10 F 697

Set Conc. Mon.
(Elev. by Fairchild)

North of City Dump
Near Road



AERIAL SURVEY

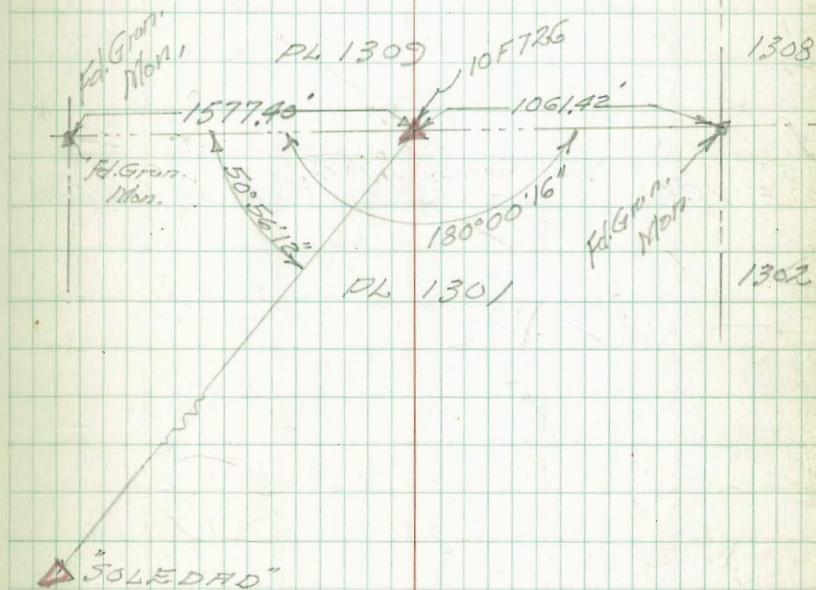
Walker 10 F-726

Popc 1-13-58

(Britton) Furchild's
Hunter Party

10 F 726

Fd. Conc. Mon. With Ld's Tack
Set city Disc. in Same,
With No "10 F 726" Stamped
in Lead.



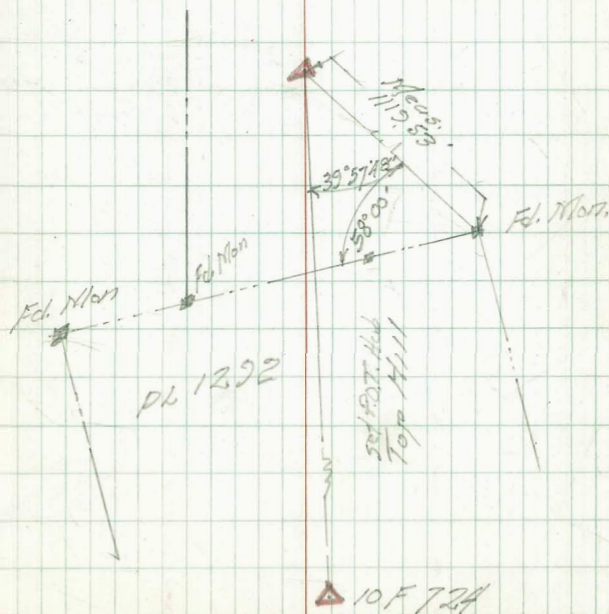
Walker
Page
Jan 1953

AERIAL SURVEY

10 F 725

Ties Made
2-16-53

10 F 725 Set Conc. Mon. (files by Fairchilds)

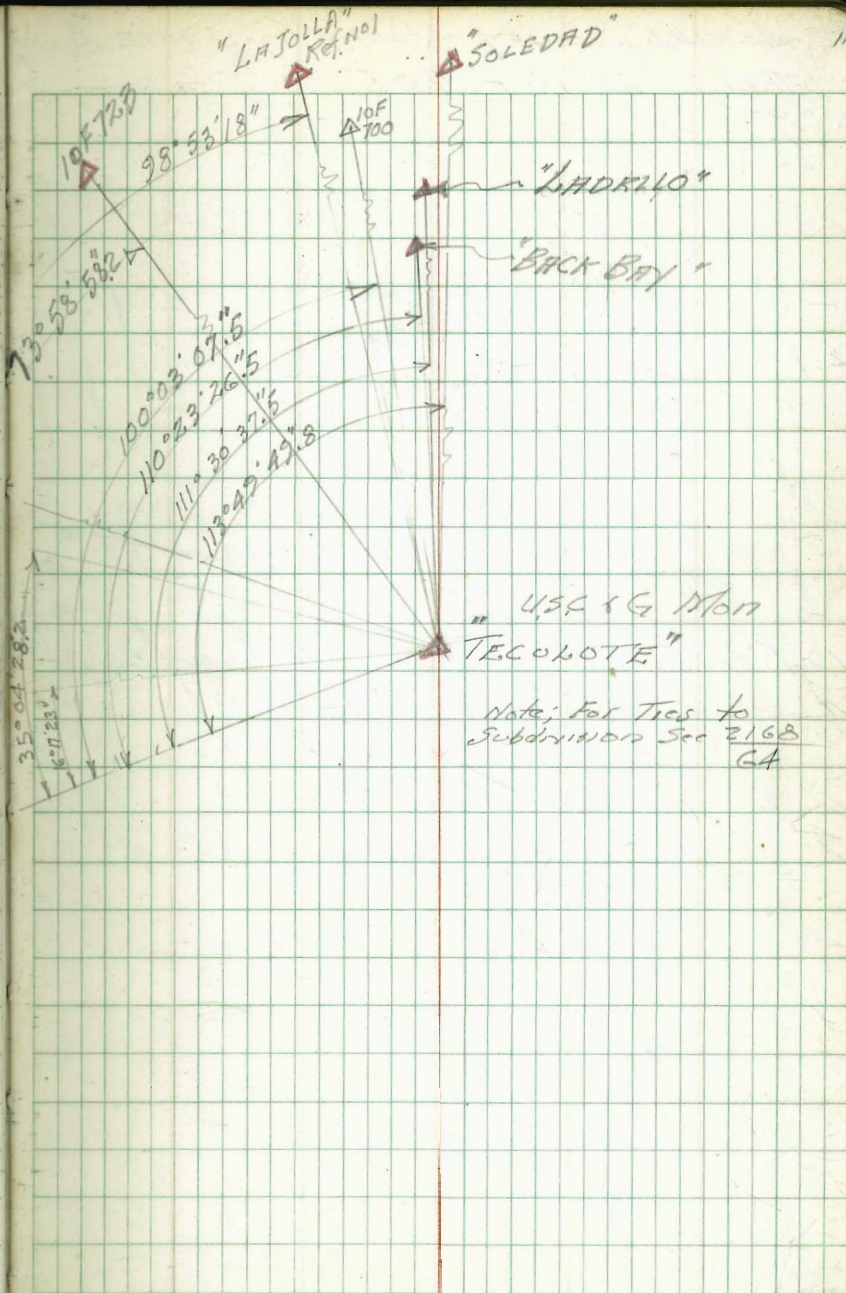
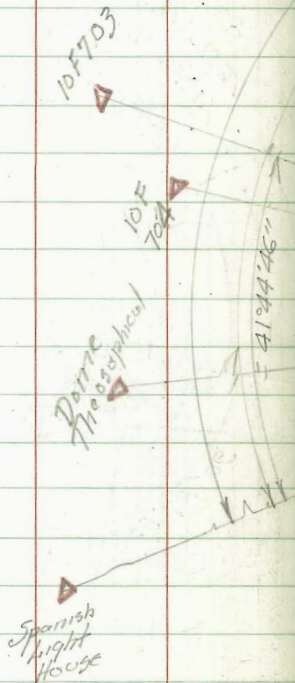


ARRIVAL SURVEY
PLANE COORDINATE POSITIONS

"TECOLOTE"

Walker
Pope 1-14-53

(Brennan) Fairchild's Crew
Hunter Angles - Wild Theodolite



Note: For Ties to
Subdivision Sec 21.63
CA

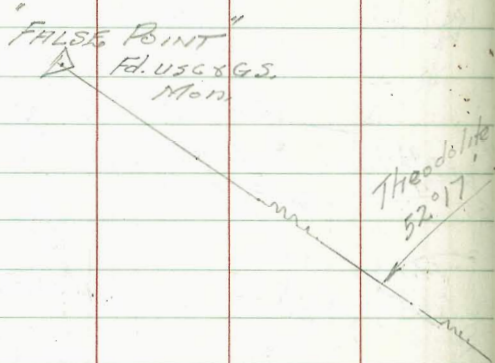
~AERIAL SURVEY~

PLANE COORDINATE POSITIONS

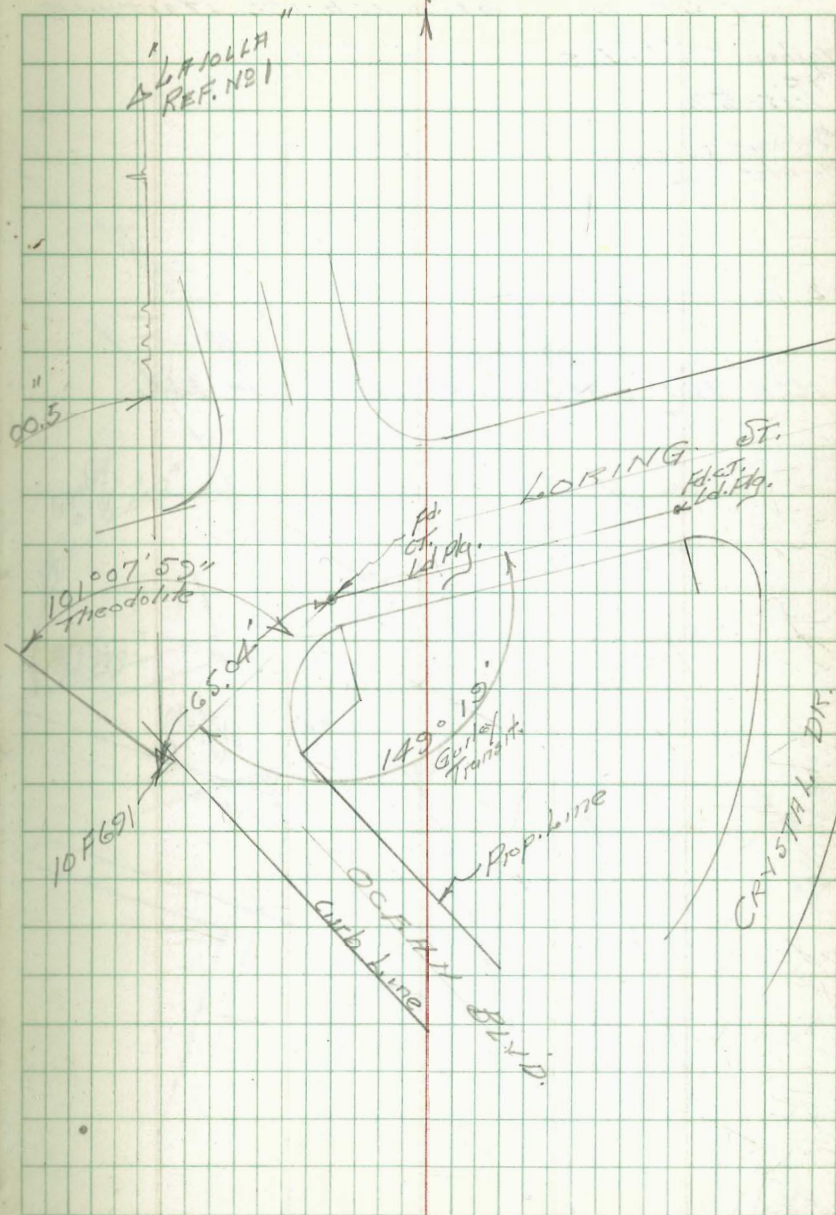
Walker Ties ~ 10 F 691

Pope
11553

(Brennan) Finch's
Huntal crew



Fd. Pipe Before station occupied.
10 F 691 Set Mon. To same Elevation

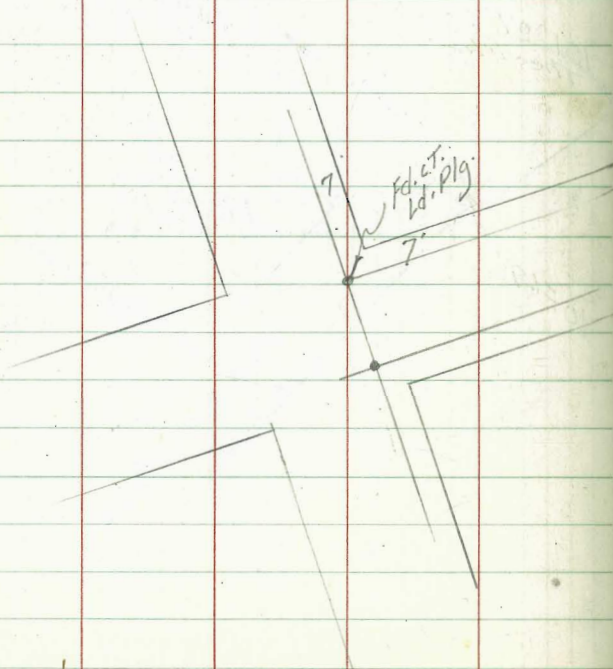


AERIAL SURVEY
 PLANE COORDINATE POSITIONS

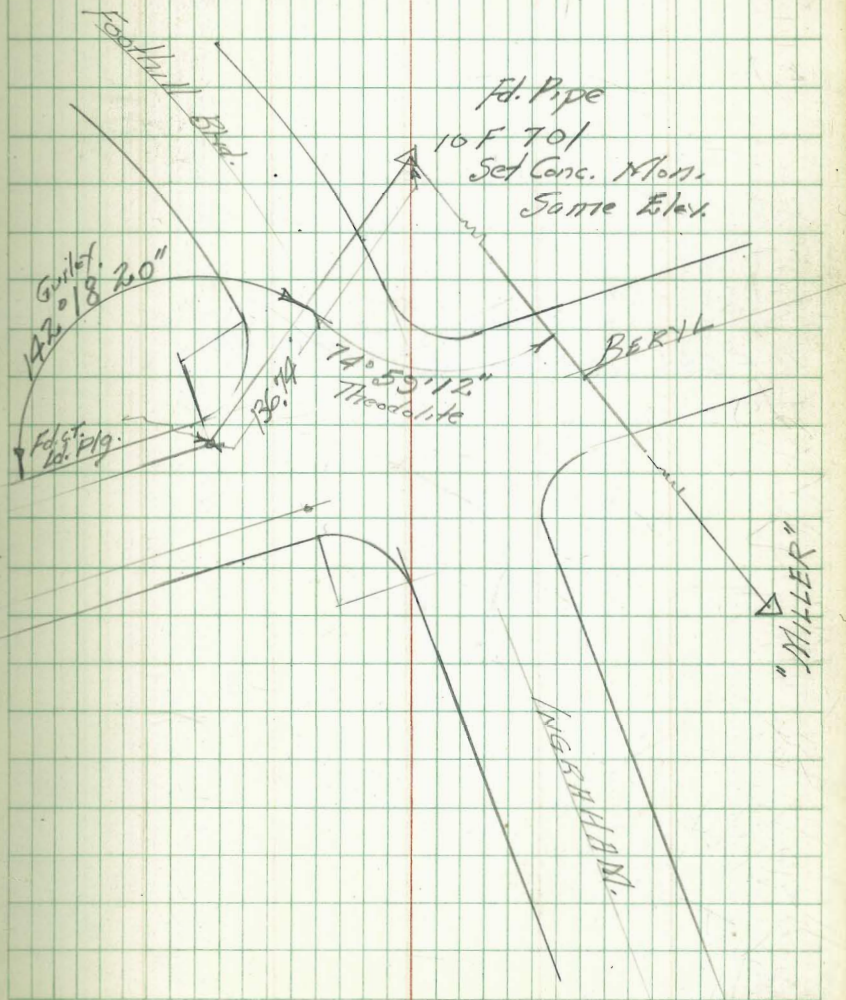
Walker TIES - 10 F 701
 1-15-53

(Bramm) Fairchild's
 Hunter crew

10 F 701 Set Conc. Man to Same Elev.



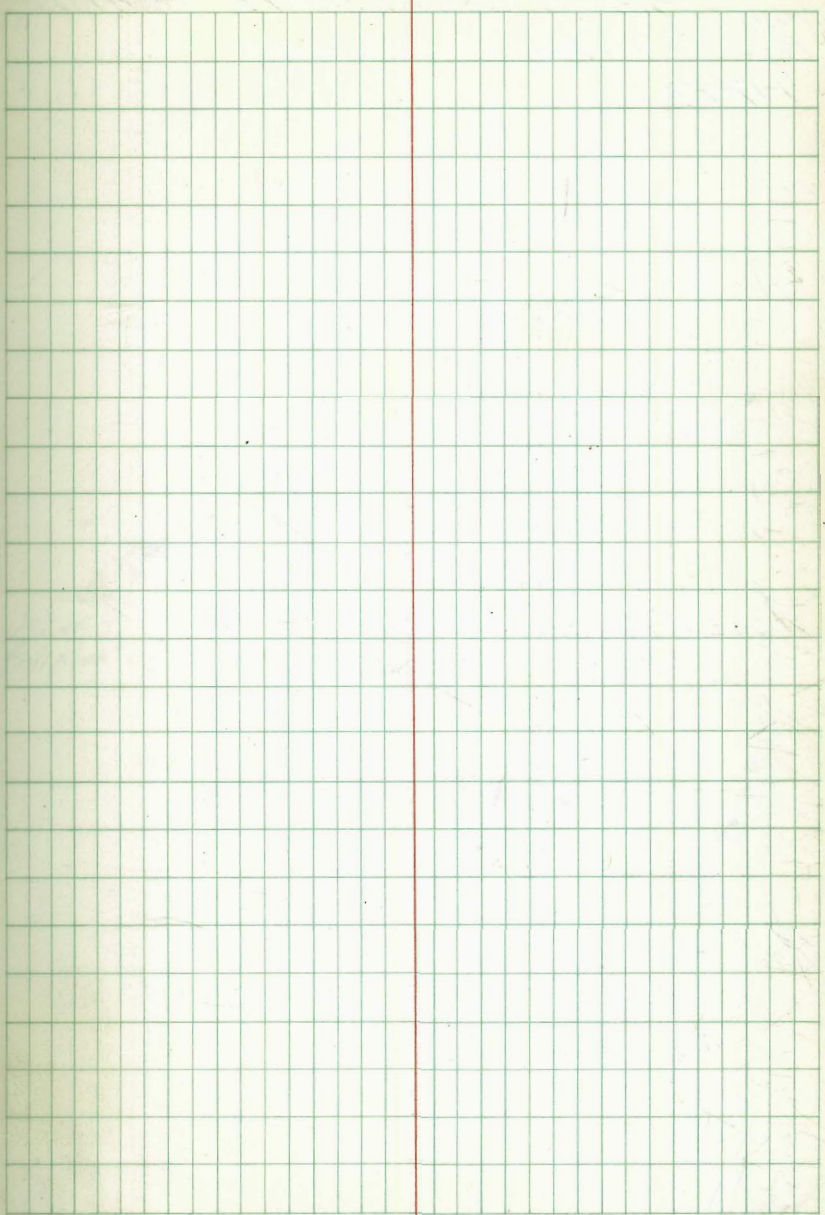
N
 ↑



AERIAL SURVEY
Plane Coordinate Positions
TICS - 10F690

Muller
Pope
1-17-53

Dirt Road in Marlboro Elev. OK.
10F690 set Cont. Mark.



AERIAL SURVEY
PLANE COORDINATE POSITIONS
TIES "10 F Pier"

10 F Pier.

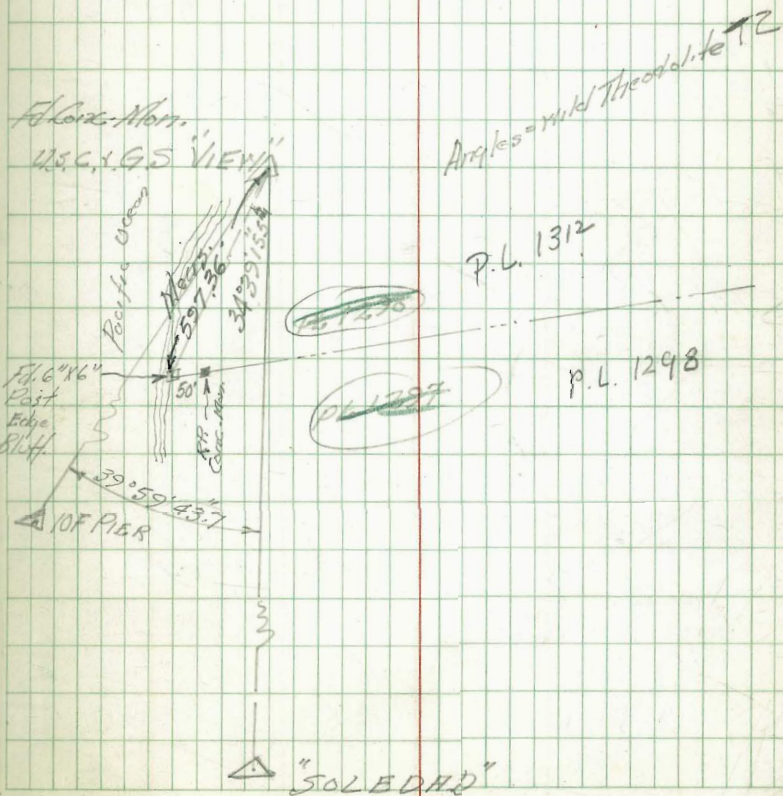
Set Id. ^{Wood} DISC. in Pier Deck
Near West end Scripps Pier.
(No Change in Elev.)

AERIAL SURVEY
 PLANE COORDINATE POSITIONS
 - TIES - "VIEW"

Walker
 Pope
 1-19-53

"VIEW" Ed. U.S.C. & G.S. Mon.

10 F Pier Set by City Eng. Disc. Near West end
Scripps Pier



AERIAL SURVEY

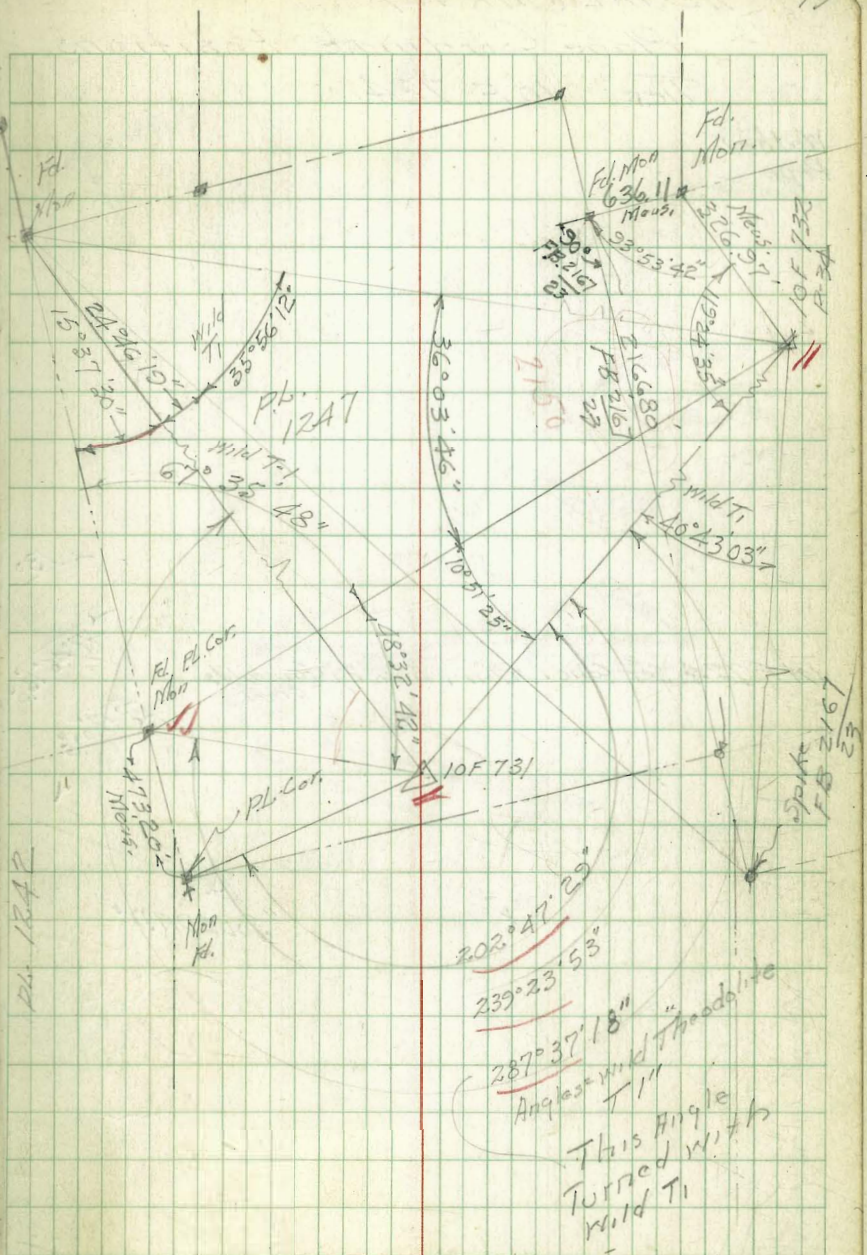
PLANE COORDINATE POSITIONS

TIES - 10 F 731
 Walker
 Pope
 1-22-53

(Banner) = Fairchild's Gev
 Hunter (Angles with 1" Wild Theodolite
 at station 10F 731)

Pl. 1248

10 F 731 Set Conc. Mon
 (Elev. by Fairchild's)



202° 47' 23"
 239° 23' 53"
 287° 37' 18"
 Angles with Theodolite
 This Angle
 Turned with
 Wild Ti

AERIAL SURVEY

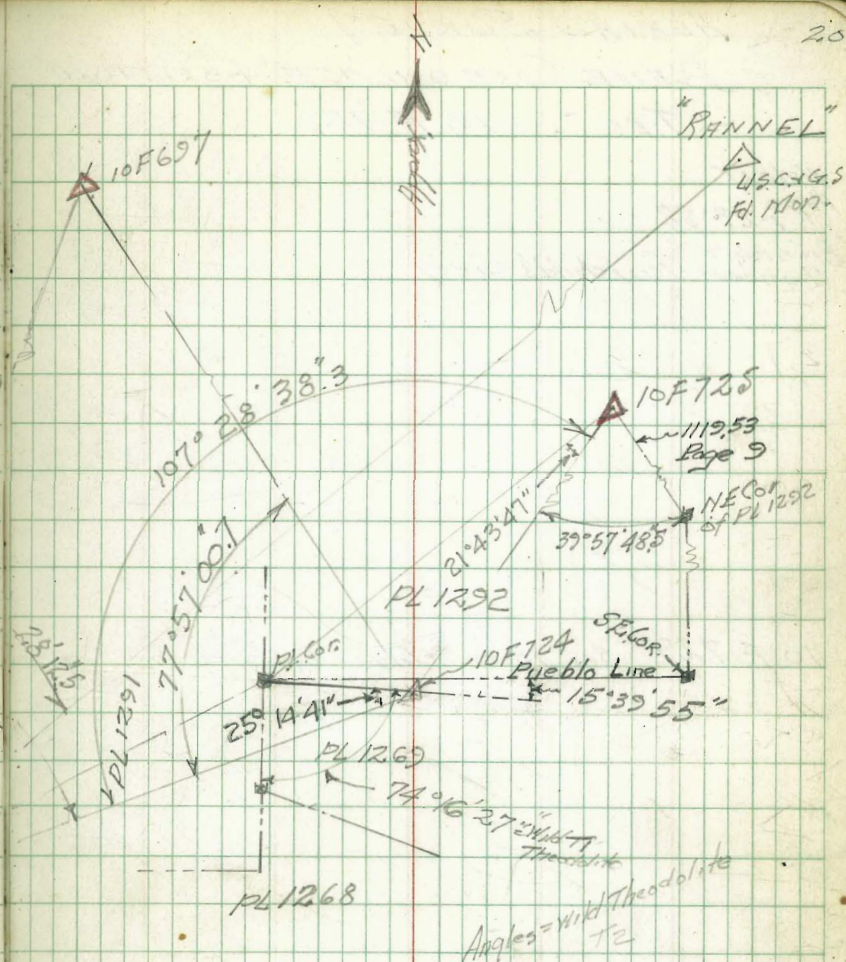
Plane Coordinate Positions

Ties 10F724

Walker
 Pope
 Jan 1953

10 F 724 Set Conc. PL 1277. Also by Fairchild's
 crew

"SOLEDAD"



AERIAL SURVEY

PLANE COORDINATE POSITIONS

~ TIES ~ 10 F 729

Walker

Popo 1-23-53

(Brennan Hunter) Fairchild's Crew

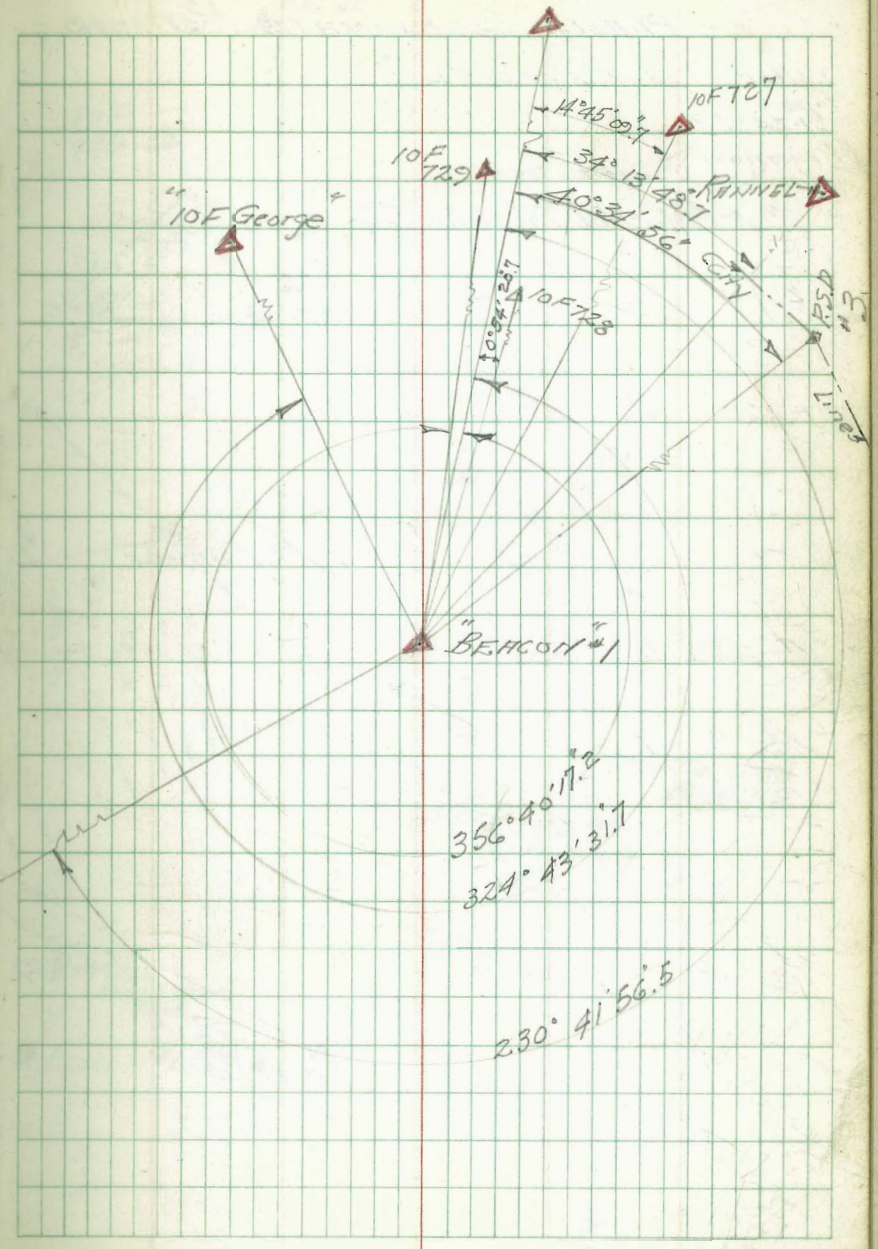
10 F 729 Set Mon Elev. by Fairchild's

AERIAL SURVEY
 PLANE COORDINATE POSITIONS
 TIES - "BEHCUN"

Walker
 Pope
 1-24-53
 (Bennett) Furduld's Crv
 Hunter Wild Theodolite T3

BEHCUN #1 Fd. U.S.C. & G.S. George D. 122. 177 Cont. 17
 Base of Beacon light

10F696
 Red checked Tank



AERIAL SURVEY

PLANE COORDINATE POSITIONS

"FANNEL"

Walker
Rope
1-24-53

(Brennan) Furchuk's crew
Hunter

" = Angles = Wild Theodolite T2

10F695

10F GEORGE

10F709

"ROUND TOP"
R. U.S. G.S.
Mon.

~~CLY BURN~~
M.T.S. Map.

"MESQUITE"

10F
729

10F
728

283°00'45.0"

347°02'23.0"
342°02'34.2"

FANNEL
R. U.S. G.S. Cont. Mon.

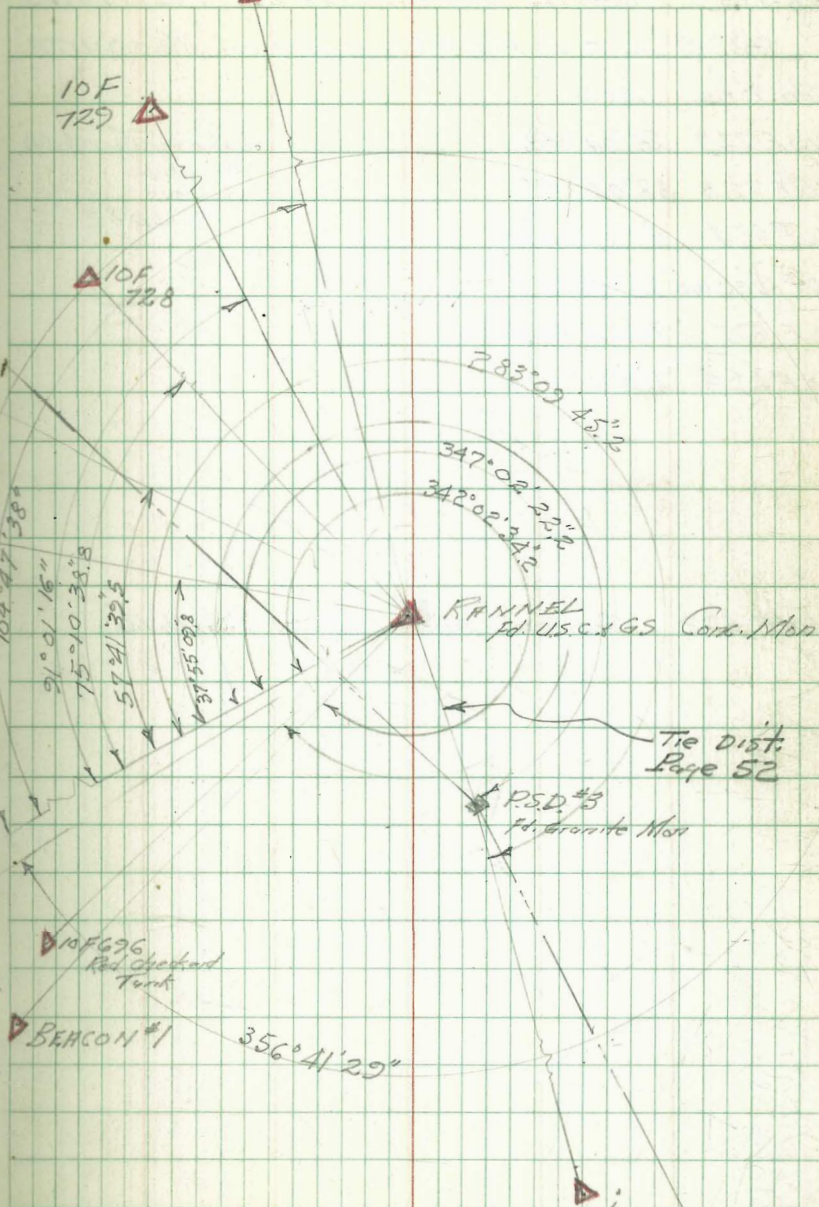
Tie Dist.
Page 52

P.S.D. #3
R. Granite Mon.

10F696
Red checked
Turb.

BENCON #1 356°41'29"

"ROSE"



Military AERIAL SURVEY

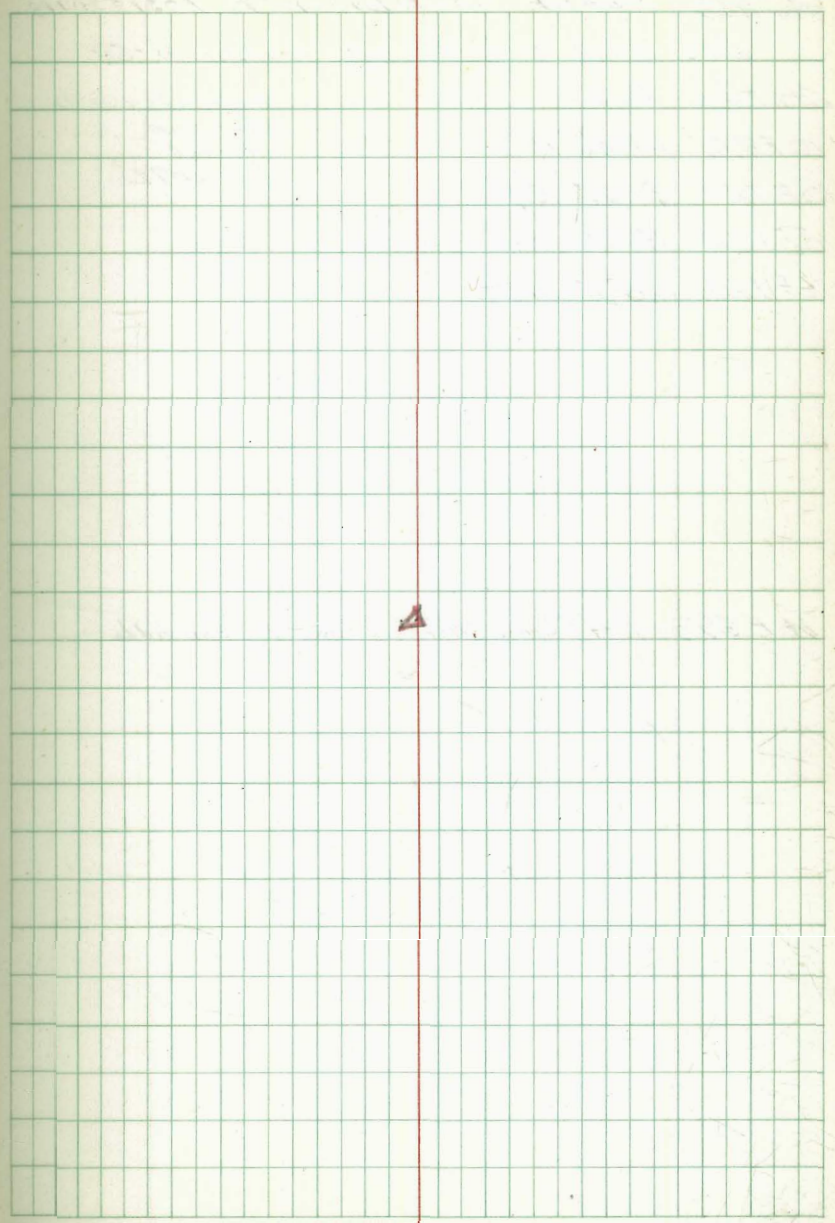
Page
 July-1953 PLANE COORDINATE POSITIONS

Sta. O.C.C. = 10F692, Initial on 'MESQUITE'

Sta. Obs.	Angle
10F729	24°04'00.8"
10F728	38°04'03"
10F674	51°17'04.8"
10F GEORGE	66°48'05.5"
10F.695	80°44'36.5"
10F693	113°01'41.8"

Angles by Fairchild's
 Bradford
 H. WILDT?

10F692 Set Gns. Mori. Elev. by Fairchild's



Wulker
Pope
Jan 1953

AERIAL SURVEY

PLANE COORDINATE POSITIONS

Sta. O.C.C. = 10 F 693, Initial H-53

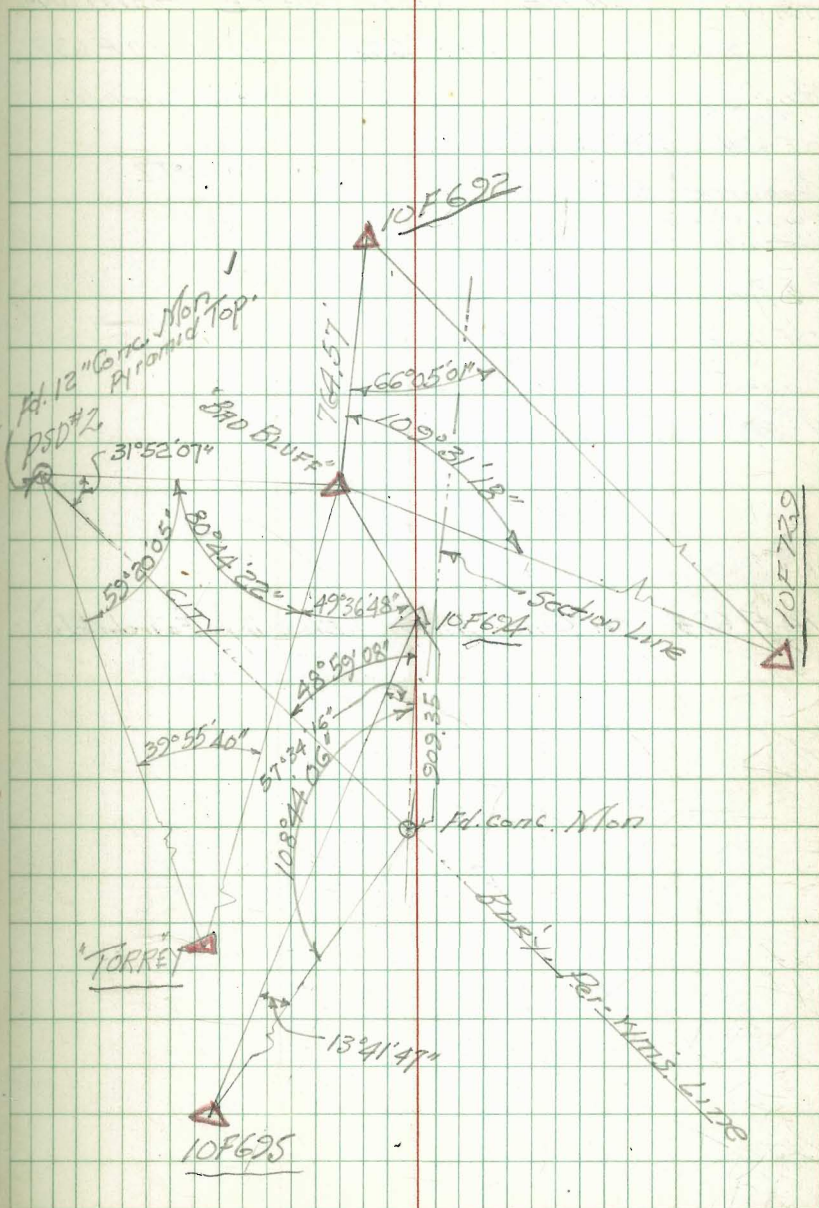
Sta. Obs.	Angle	Angles = Fairchild's Brennan Hunter "WILLOTT"
10 F 692	67° 45' 11"	
10 F 729	131° 45' 12.5"	
10 F 694	137° 48' 51.8"	
10 F 728	155° 56' 42.2"	

10 F 693 Set. Conc. Man. Elev. by Fairchild's

Walker
 Pope
 Jan 1953
 AERIAL SURVEY
 PLANE COORDINATE POSITIONS
 Sta DCC. 10 F 694, Initial 10 F 695

Sta Obs	Angle	Angles by Fairchild's Bennet Hunter 'WILDTZ'
10 F 693	48° 06' 37"	
"H-53"	61° 11' 25"	
10 F 692	96° 18' 09"	
Morr city line W.L. Sec 15	302° 25' 43"	

10 F 694 Set Conc. Mon. Elev. by Fairchild's



AERIAL SURVEY
PLANE COORDINATE POSITIONS
10 F 696

10 F 696 set Conc. Mon. Elev. by Fairchild's

29

4

AERIAL SURVEY
PLANE COORDINATE POSITIONS
10 F 703

30

Tower North Jcty
10 F 703 Set ~~Case~~ ~~Station~~, Elev by Fairchilds

△

AERIAL SURVEY
PLANE COORDINATE POSITIONS
10F 719

10F 719 Set Conc. Mon. Elev. by Fairchild's

4

AERIAL SURVEY

Walker
 Refc
 Jan. 1953
 PLANE COORDINATE POSITIONS
 Au. CC. = 10 F 728, Initial on "Kannel"

Sta. Obs. Angle

10 F 727 45° 53' 35"

USC 695
"Beacon" 53° 32' 28"

10 F GEORGE 108° 24' 05.2"

10 F 695 158° 54' 37"

10 F 623 163° 31' 02.8"

10 F 722 218° 25' 27.5"

"Mesquite"
USC 695 231° 24' 02.5"

Angles by Fairchild's
 Crew - Stanman
 Hunter
 Inst. = WILDTC

on Hill West of Twp 14+15 & North of city Bldg.

10 F 728 3rd Cont. Map. Elev. by Fairchild's

AERIAL SURVEY
PLANE COORDINATE POSITIONS

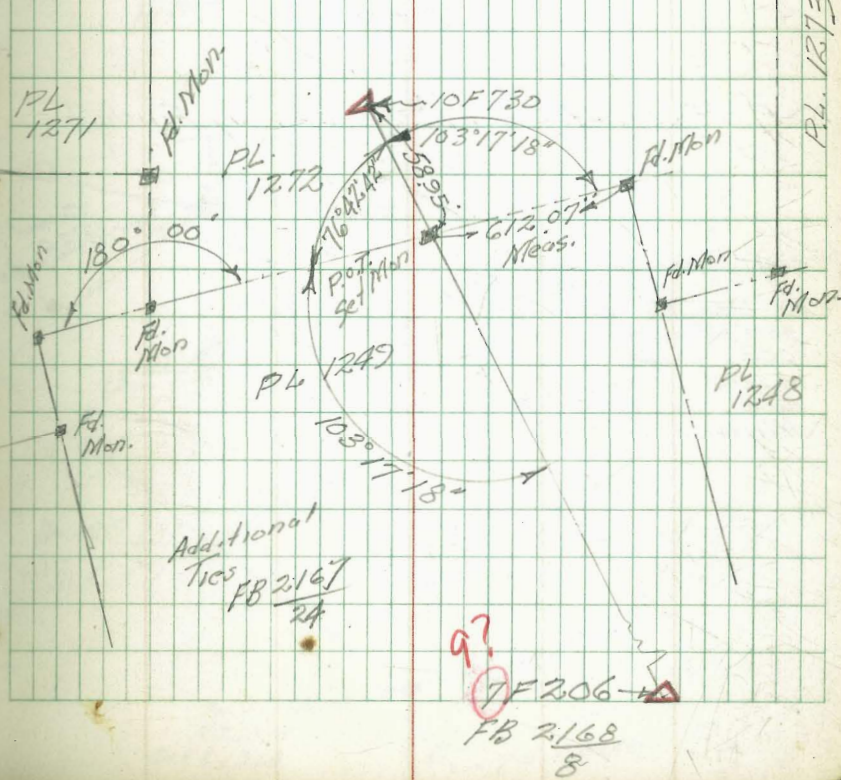
10F 730

(Walter
Coker
Presley) ^{ETRS}
1-26-53

on North Side San Clemente Canyon.
10F 730 Set Conc. Mark (Elev. by Fairchild's)

PL.
1270

PL.
1250



PL. 1273

AERIAL SURVEY
PLANE COORDINATE POSITIONS

34

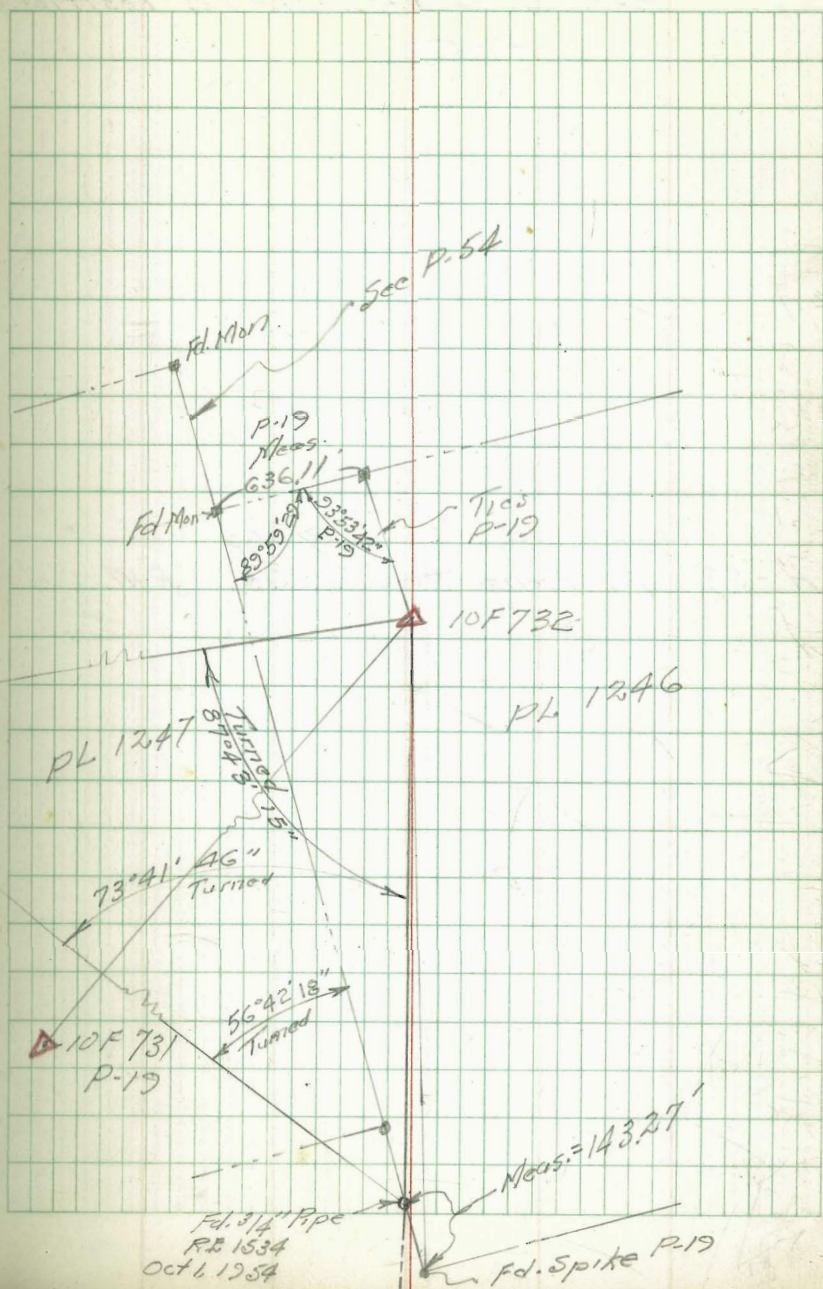
Walker
Pope
Jan. 1953

10F732

10F732 Set Conc. Min. Elev. by Fairchild



(Angles from 10F730
10F732
and Pipe RE 1534
were measured
Oct 1, 1954
Walker
Pope
Oltmann
Mild T2



10F732

PL 1247

PL 1246

10F731
P-19

Fd. 3/4" Pipe
RE 1534
Oct 1, 1954

Meas. = 143.27'

Fd. Spike P-19

AERIAL SURVEY
PLANE COORDINATE POSITIONS

H-53

N.M. Cor Paraguitos Bridge

H-53 Fch. Bronze Disc U.S.G.S. B.M.



AERIAL SURVEY
PLANE COORDINATE POSITIONS
"BALL"

36

"BALL" Id. U.S.C. & G.S. Men on Bluff Near Ocean



AERIAL SURVEY
PLANE COORDINATE POSITIONS
"EASTER CROSS"

EASTER CROSS $1\frac{1}{2}$ " Iron Pipe

See Note
FB 2/68-79

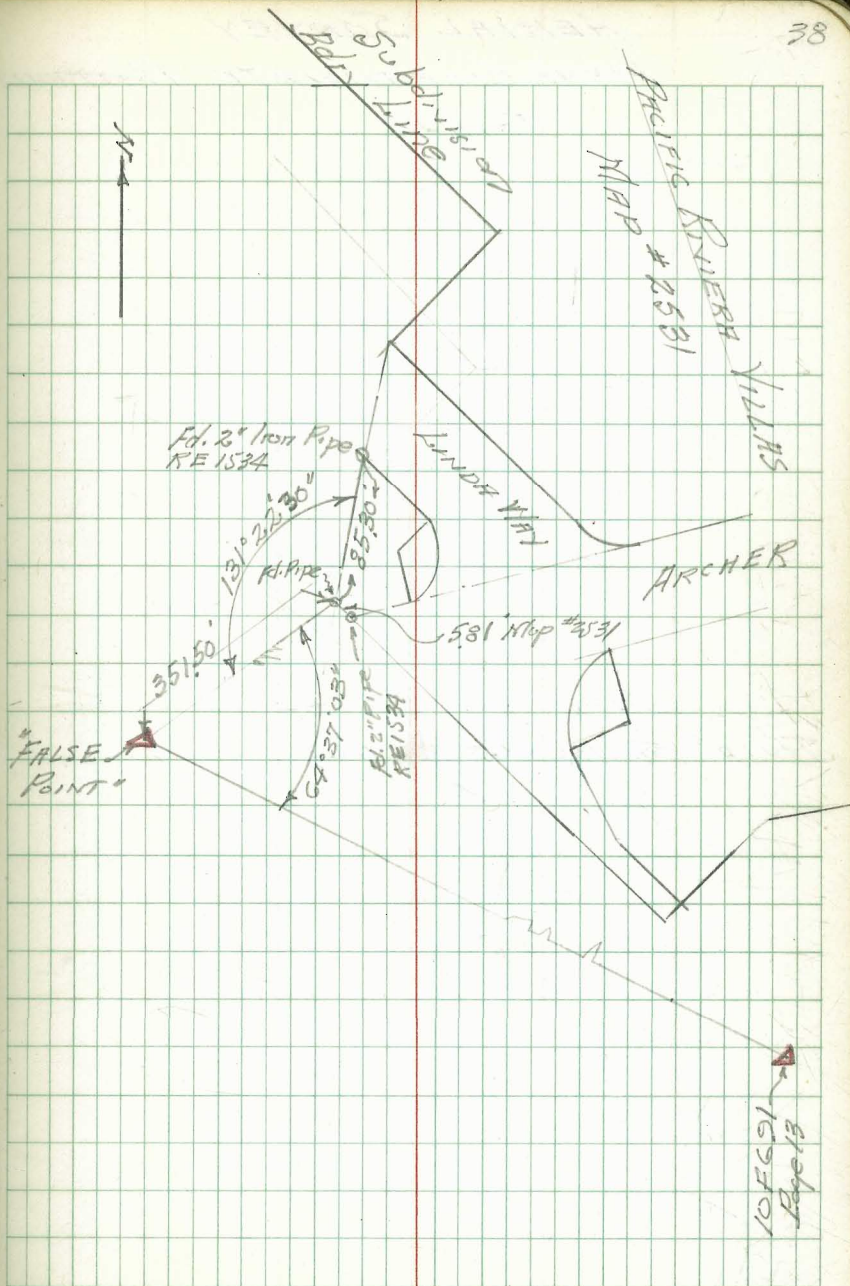
AERIAL SURVEY

PLANE COORDINATE POSITIONS

Walker
Pope
Bryton
3-3-53

"FALSE POINT"

Near Ocean Bluff. old North Air Craft Base
So. California
"FALSE POINT" Fd. U.S.G. & G.S. Map.



AERIAL SURVEY
PLANE COORDINATE POSITIONS
"JOLLA"

"JOLLA" Fd. U.S.C. 845 REF. NO. 1

AERIAL SURVEY
PLANE COORDINATE POSITIONS
"ROSE"

"ROSE" Fd. U.S.C. & G.S. Mon.

AERIAL SURVEY
 PLANE COORDINATE POSITIONS

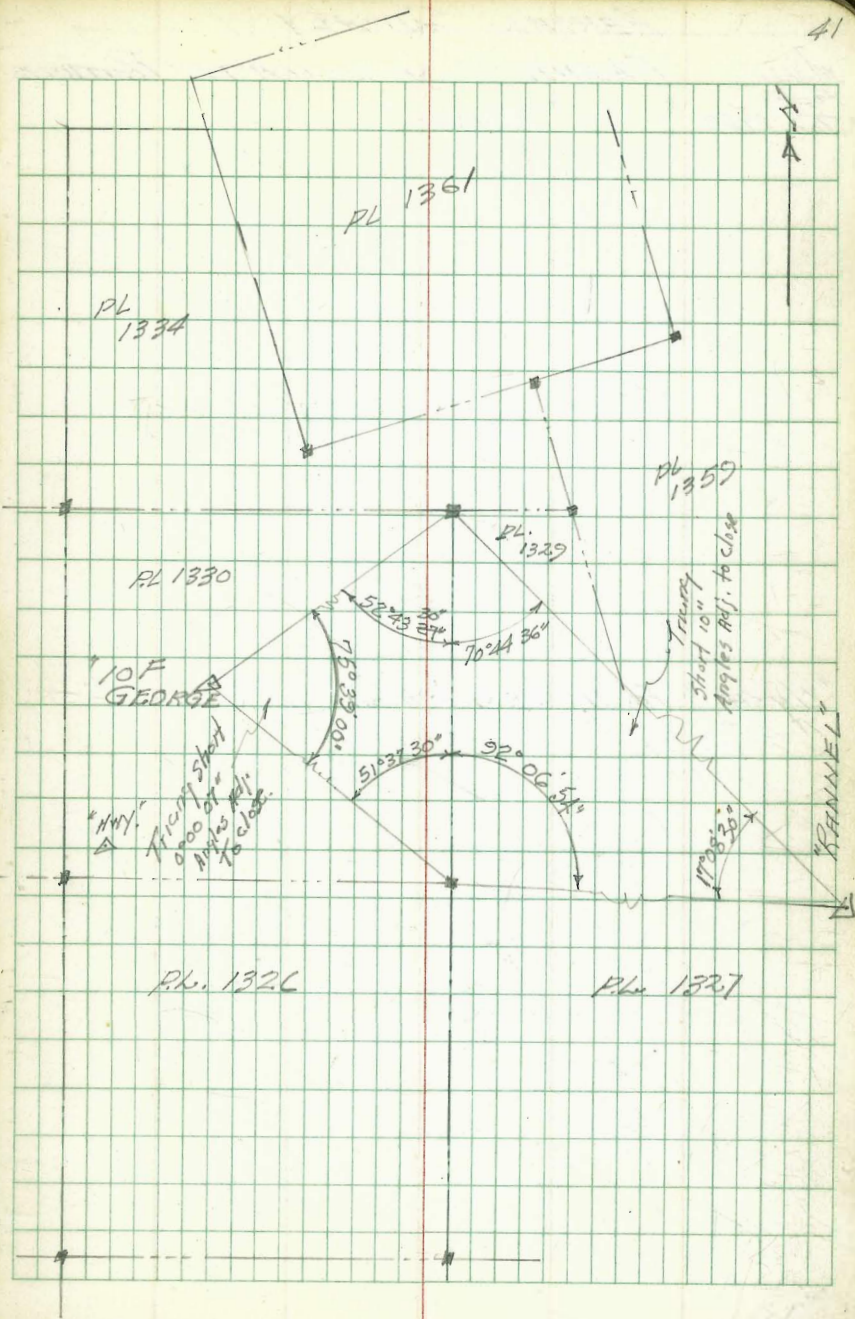
Walker
 Page Sta. 000 = 10 F "GEORGE"
 Jan, 1953 Initial on 10 F 692

Sta. Obs.	Angle
"Mesquite"	42° 21' 53"
10 F 729	47° 18' 10.5"
10 F 728	74° 12' 24.8"
"Kannel"	108° 32' 45"
P.S.D #3	113° 25' 06"
10 F 727	137° 42' 22.5"
10 F Beacon #1	163° 09' 49.8"
Tank	185° 56' 07.8"
10 F 696	

Angles: Fairchild's
 Brennan
 Hunter
 'WILDTZ'

"10 F GEORGE" set Conc. Mon. (Elev. by Fairchild's)

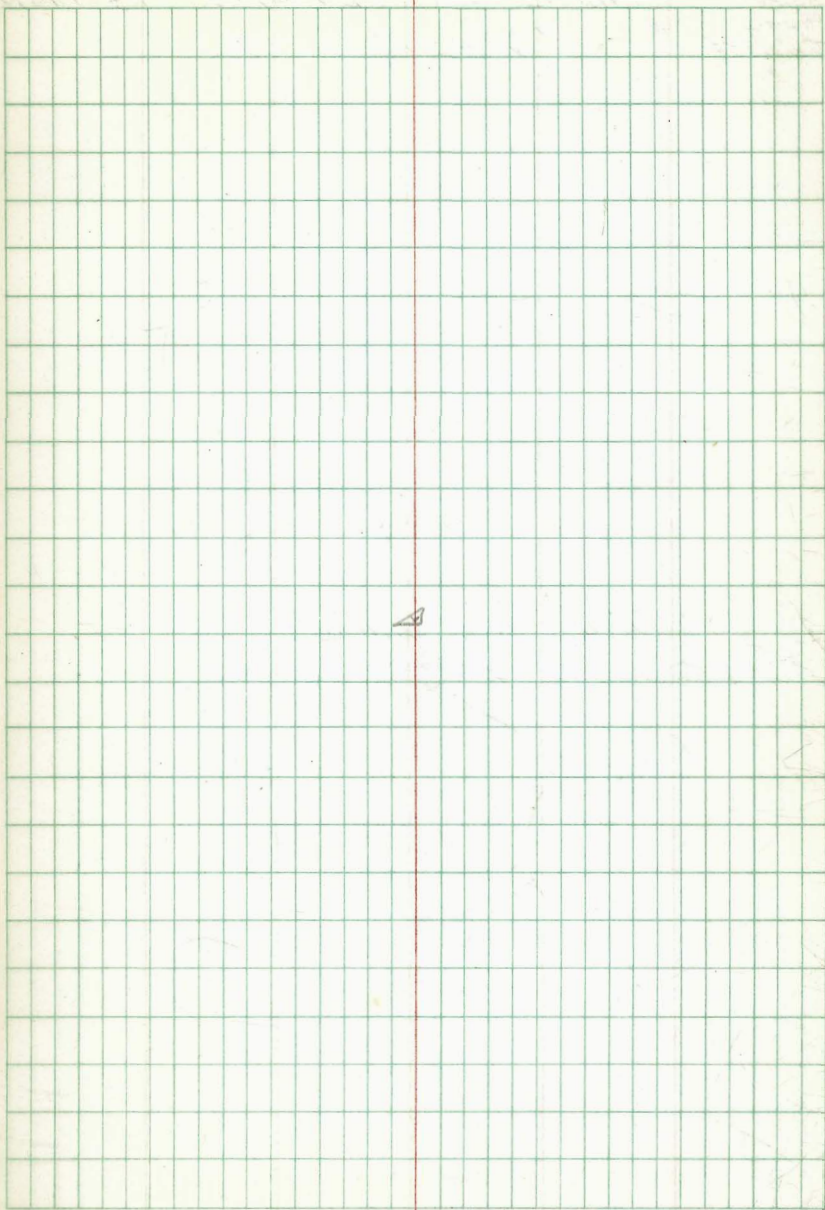
" - Fd. Conc. Mon.



Walker
F300.
Jan. 1953

AERIAL SURVEY
PLANE COORDINATE POSITIONS
"WASH"

"WASH" Fed. U.S.C. & G.S. Mon.

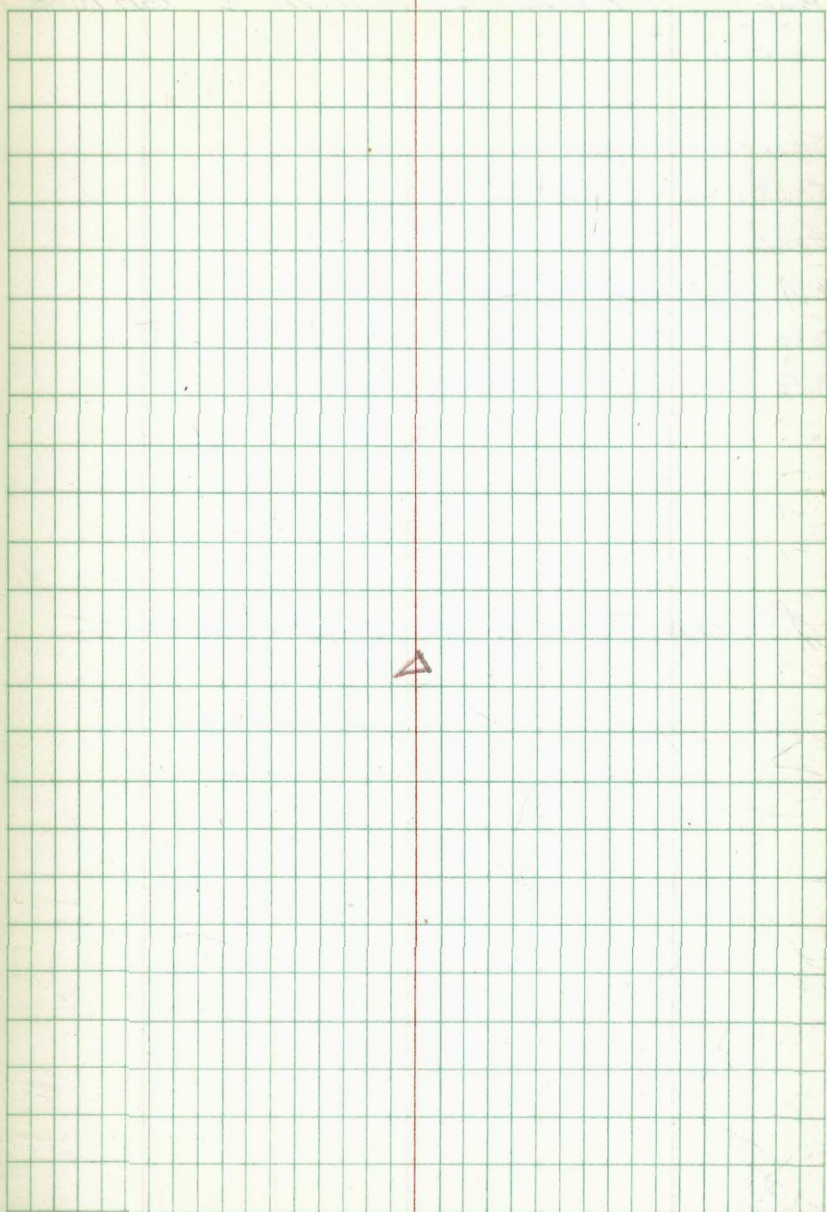


Walker
F. B. P.
Jan. 1953

AERIAL SURVEY
PLANE COORDINATE POSITIONS
"MESQUITE"

In High Brush North of Dairy
"MESQUITE" Feb. Mar. 4, 5, 6, 1953

43



Mutter

AERIAL SURVEY

Apr 27 - 1953

PLANE COORDINATE POSITIONS

Sta O.C. = "ROUND TOP" #2

Initial Runnel

Sta. Obs. Angle

"SOLEDAD" 130° 24' 13.5"

"BALL" 223° 01' 10"

S.W. Range 253° 25' 29"

N.W. " 275° 28' 43"

S.E. " 295° 00' 02.5"

"ROUND TOP" #2

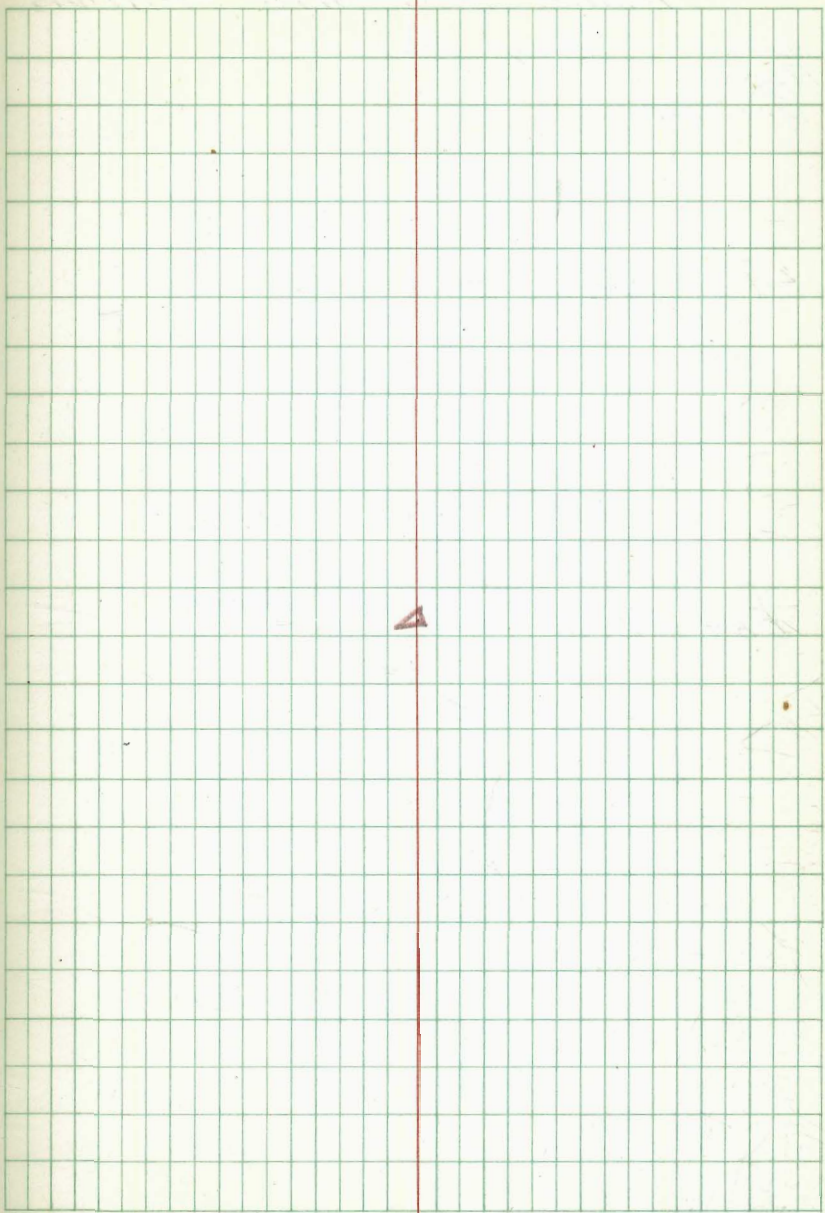
F.H. USC & G.S. Mon.



AERIAL SURVEY

Walker PLANE COORDINATE POSITIONS
Page "HWY"
Jan. 1953

"HWY" Fd. USC & GS Mon



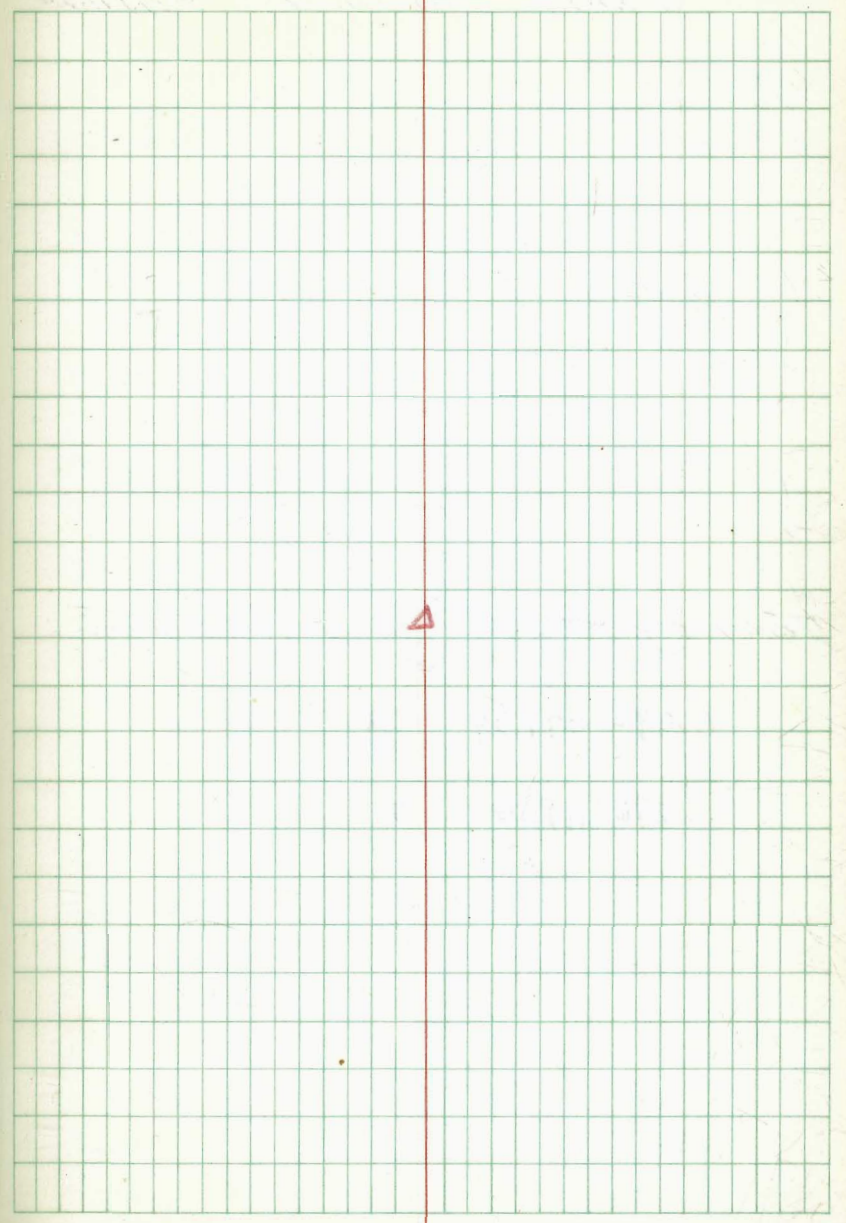
AERIAL SURVEY

PLANE COORDINATE POSITIONS

Walker
RDC
Jan 1953

"BAY POINT"

"BAY PT." PL. 450468 MORO



AERIAL SURVEY
PLANE COORDINATE POSITIONS

47

"TORREY PINES" H. U.S.C. & G.S. Nov 12

1 692 077.39 x

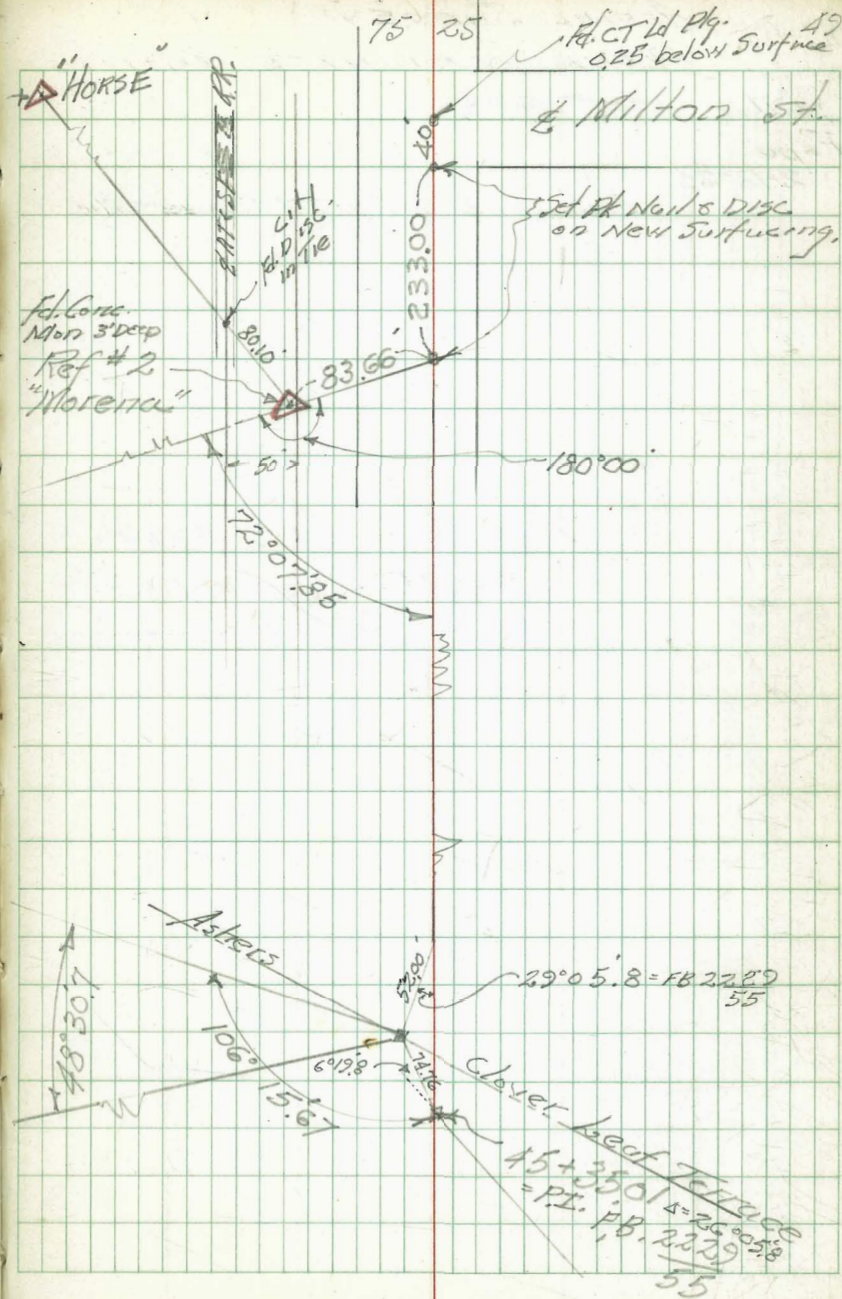
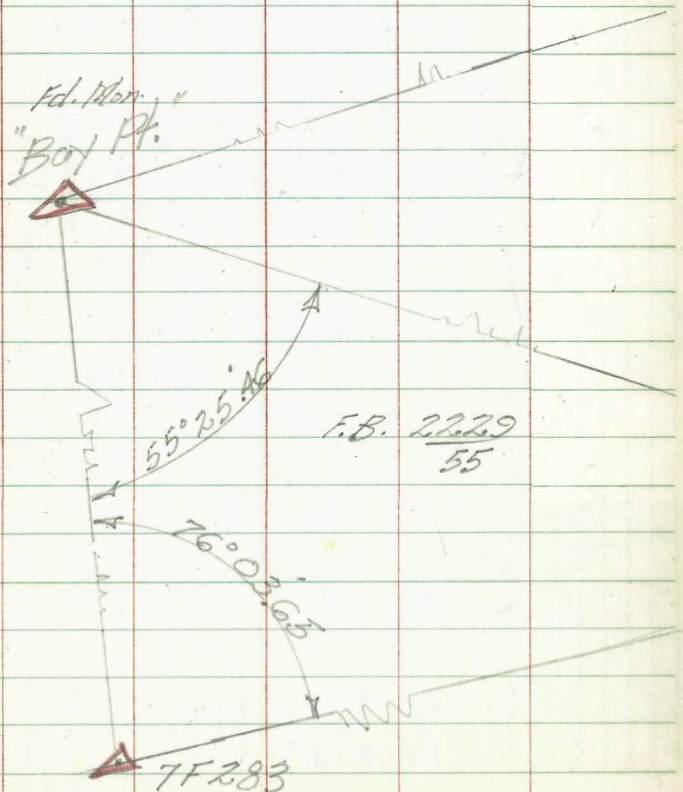
276 118.08 y

A

AERIAL SURVEY
PLANE COORDINATE POSITIONS

Walker
Bope
Hoffman
Fresco 2-2-53

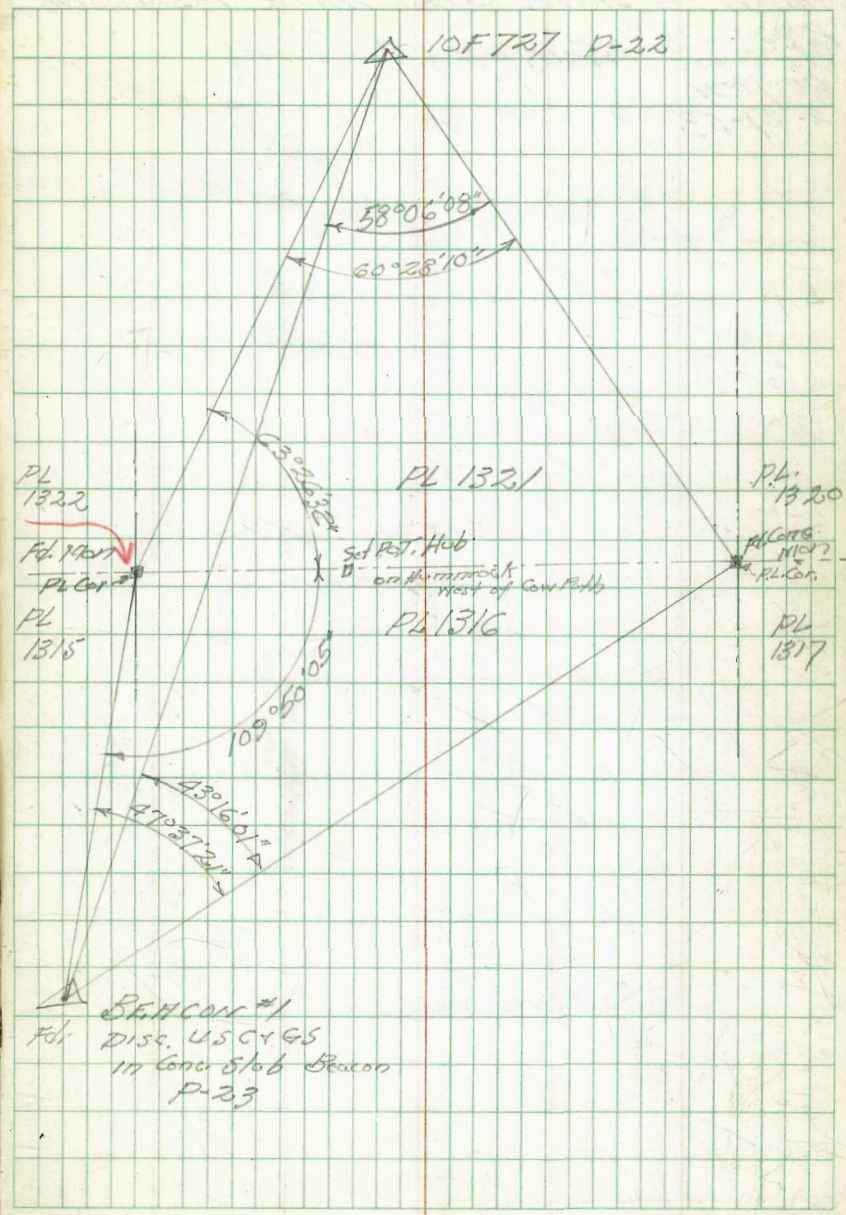
(This Point
- C.I. Mission
Proj Data)



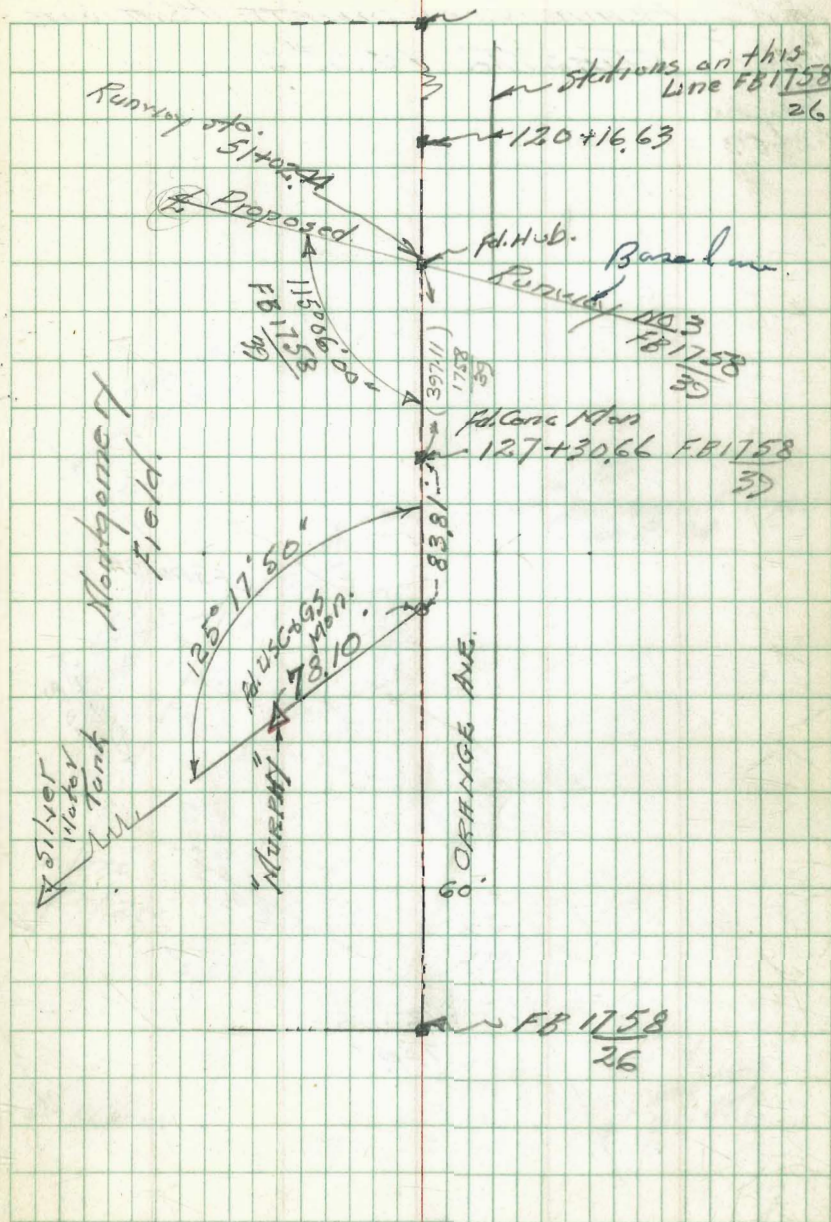
AERIAL SURVEY
 PLANE COORDINATE POSITIONS

Walker TIES
 Pope
 2-18-53
 Angles with WILD T1 Transit theodolite

SEE TIES FROM
 ARL 16 SCRIPPS HOSPITAL
 PROPOSED SITE



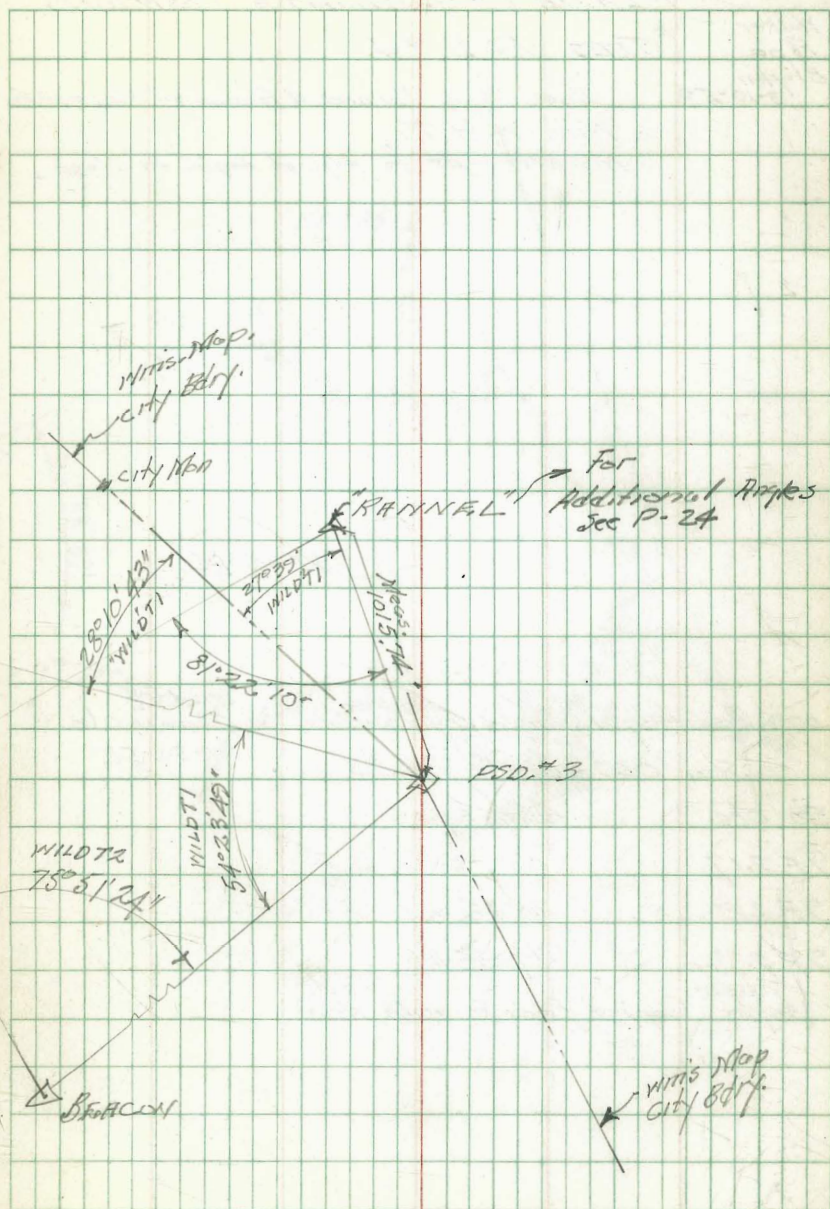
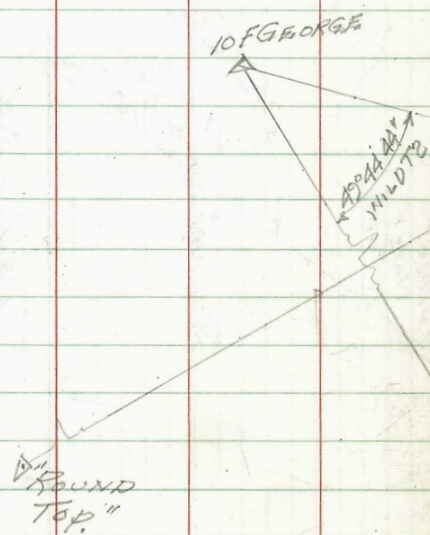
AERIAL SURVEY
 MARKET POPE
 BRYANT
 2-27-53
 PLANE COORDINATE POSITIONS
 "MURPHY" TIES



AERIAL SURVEY
 PLANE COORDINATE POSITIONS

Walker
 Pope
 Brayton
 3-2-53

TIED TO PSD #3



AERIAL SURVEY
PLANE COORDINATE POSITIONS

Walker
Rope

TIES P.S.D. #4

Byron
3-10-53

Each Angle Turned 4 Forward 4 Reverse
With Wild T1.
No Attempt to Adjust Angles to Close.

9F217

9F235

9F237

P.S.D.
#4

Additional Angles by Fairchild's Co. Jones Obs.

Wild T2
1-30-52

Stn. occupied = P.S.D. #4

Stn Obs.

Mean Angle

9F217

0°00'00"

9F219

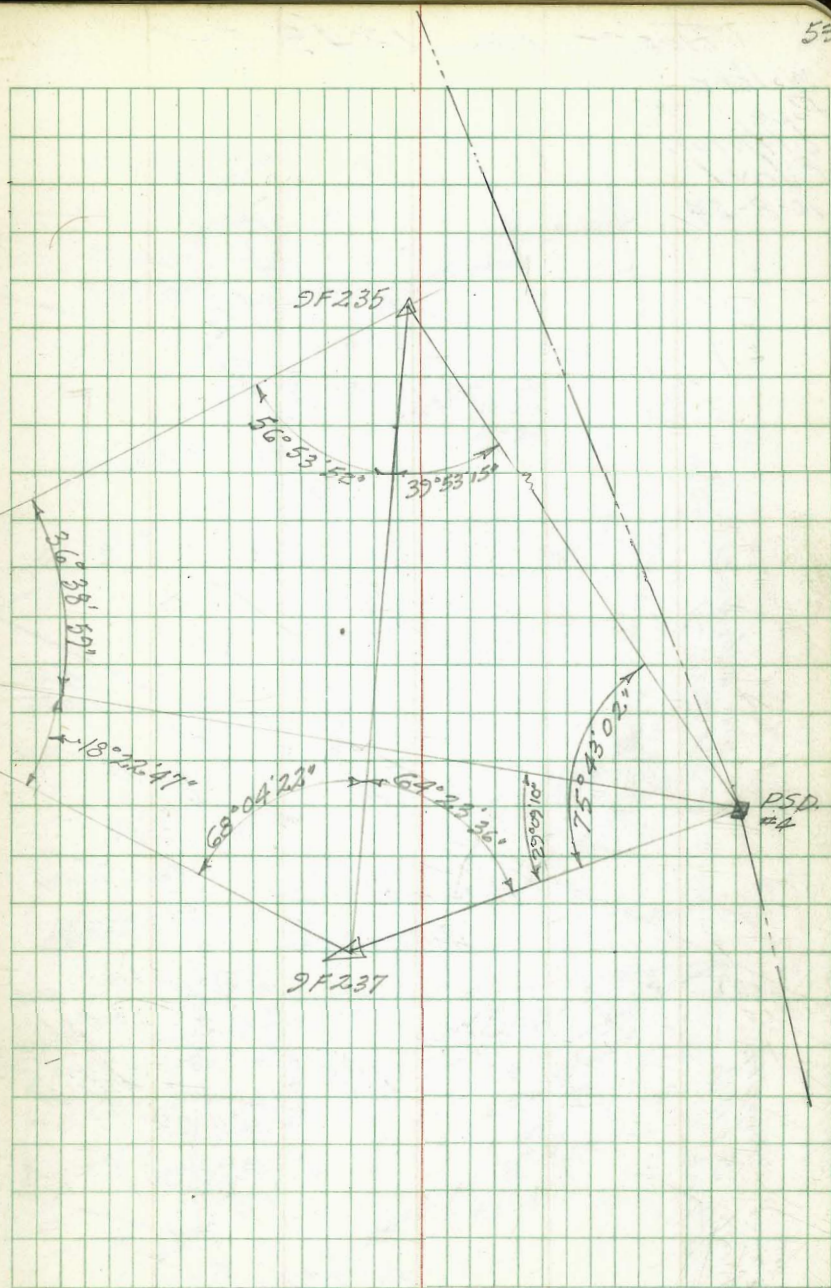
20°32'18.6"

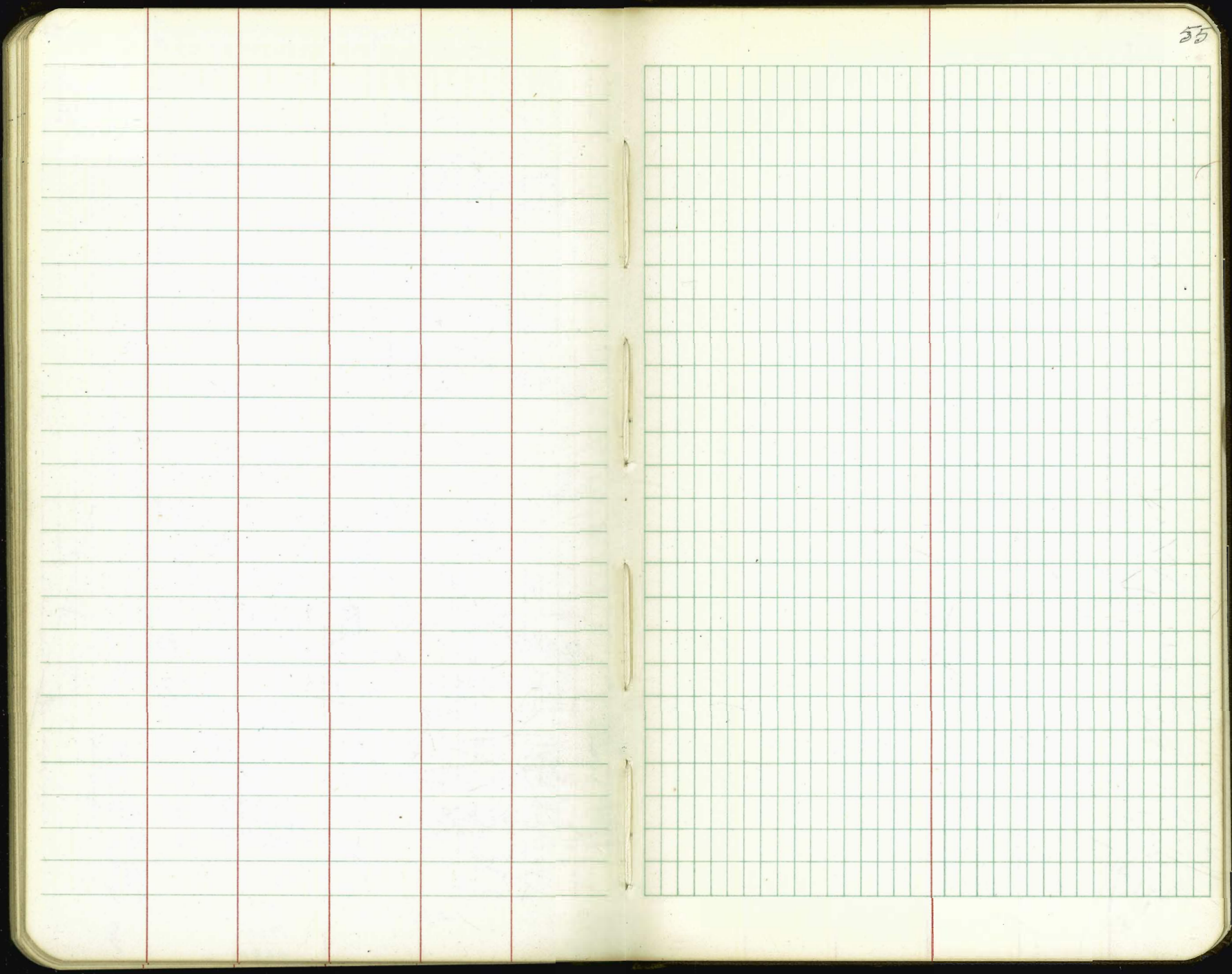
9F239

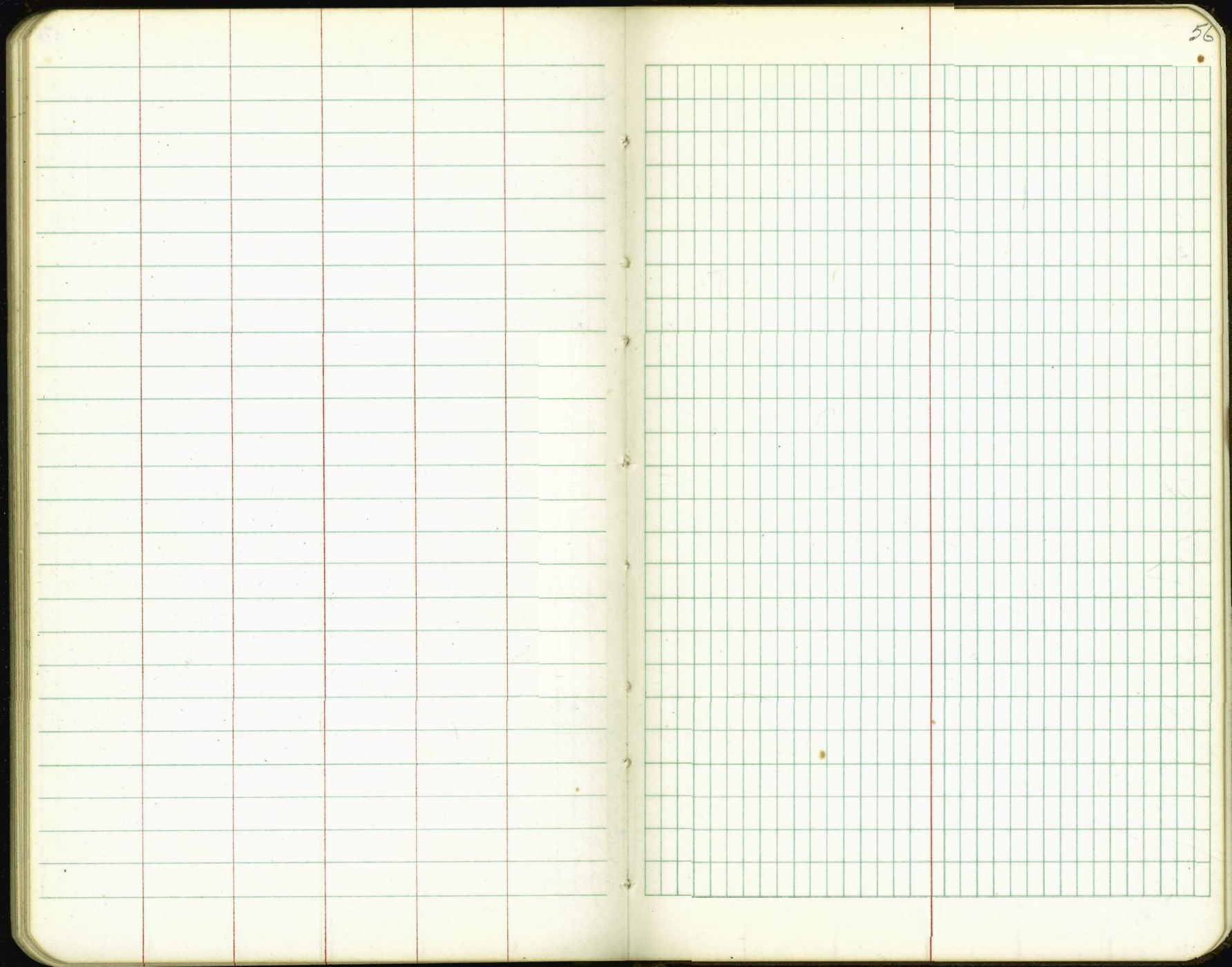
87°55'11.5"

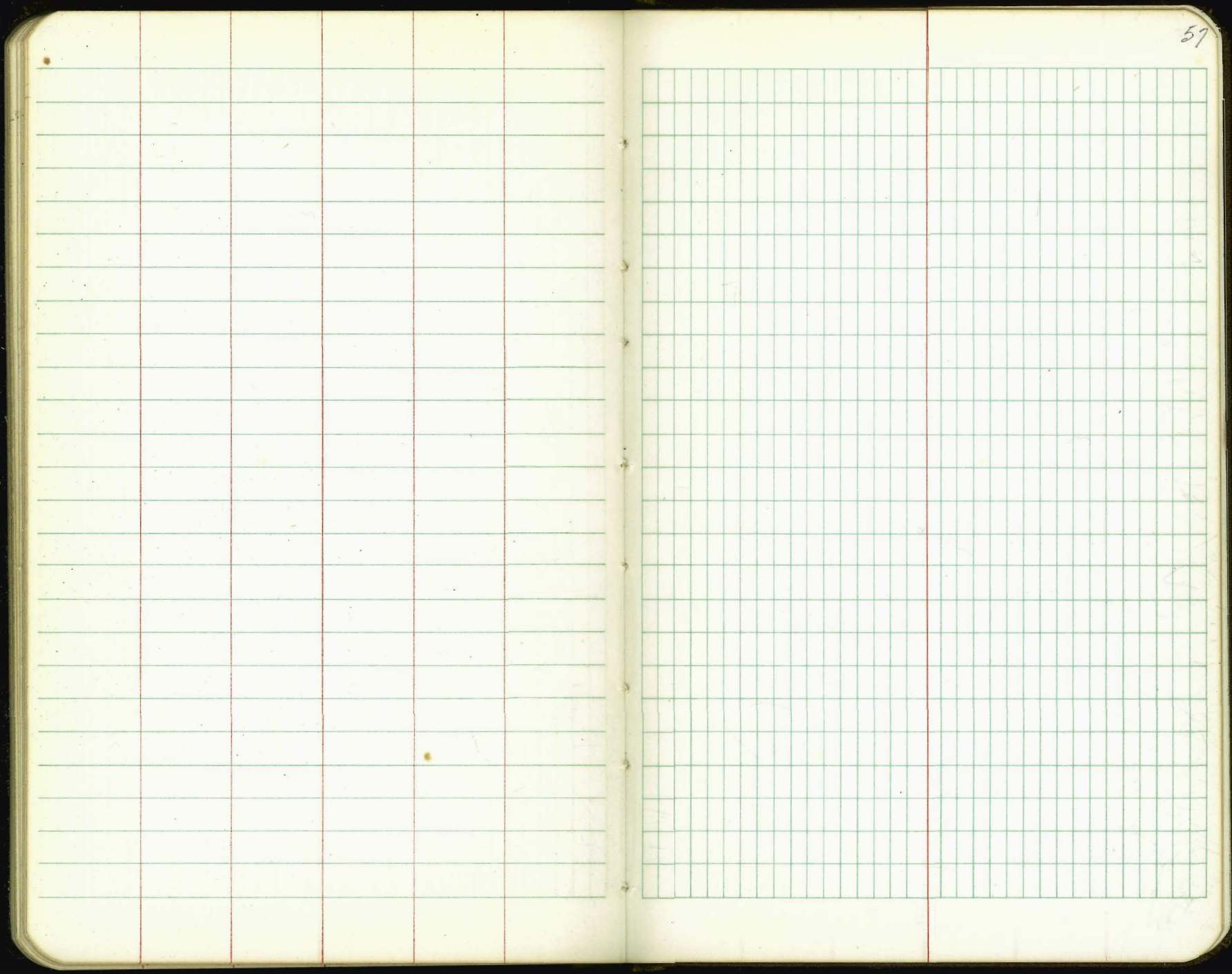
Above
Angles

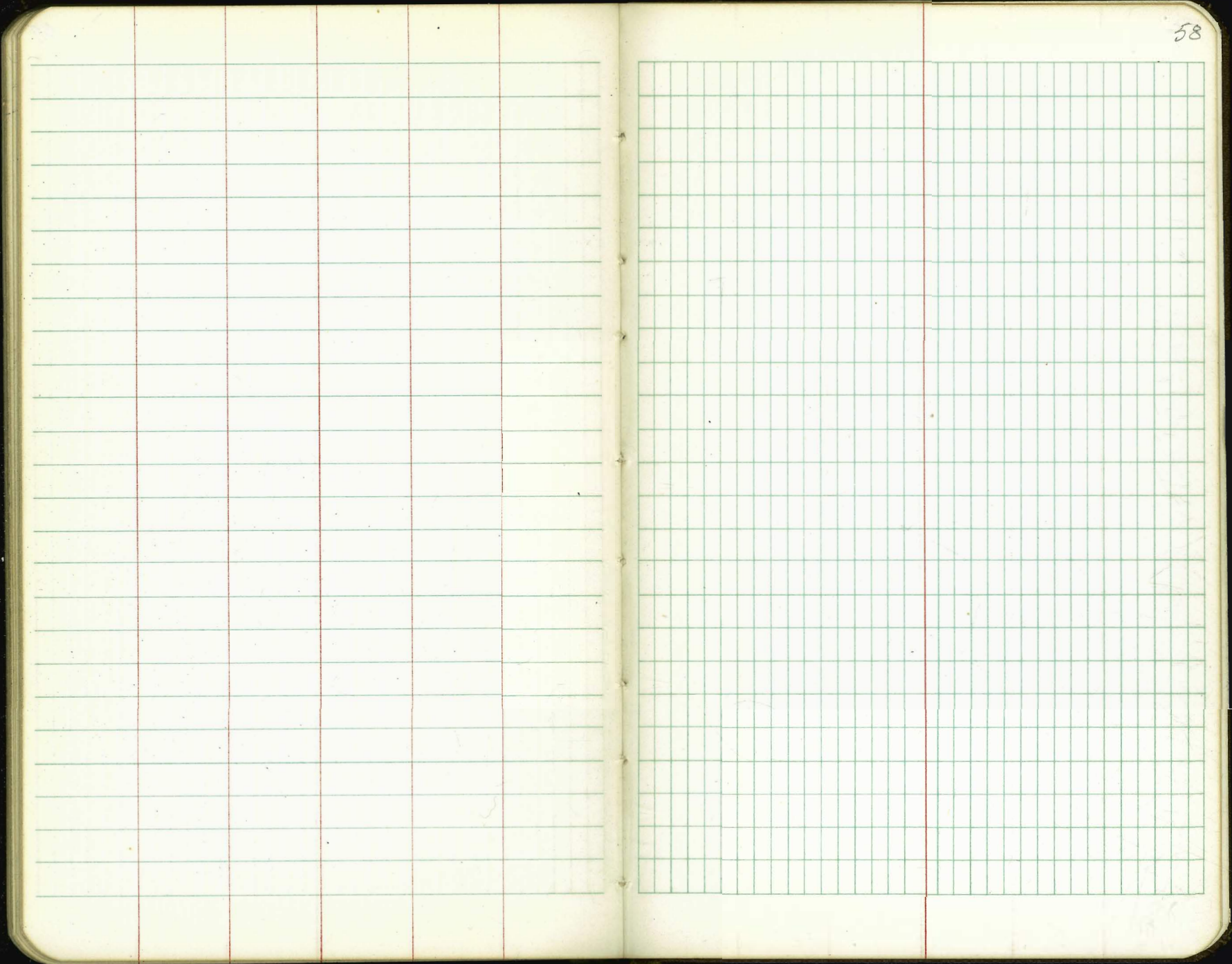
Copied from Fairchild's Notes
Field





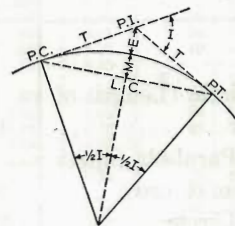






CURVE AND REDUCTION TABLES

Published by Eugene Dietzgen Co.



CURVE FORMULAS

1. Radius : $R = \frac{50}{\sin D/2}$
2. Degree of Curve: $D = 100 \frac{I}{L}$. Also, $\sin D/2 = \frac{50}{R}$
3. Tangent : $T = R \tan \frac{1}{2} I$. Also, $T = \frac{T \text{ for } 1^\circ \text{ curve}}{D} + C$.
4. Length of Curve: $L = 100 \frac{I}{D}$
5. Long Chord : $L. C. = 2R \sin \frac{1}{2} I$.
6. Middle Ordinate: $M = R (1 - \cos \frac{1}{2} I)$
7. External : $E = \frac{R}{\cos \frac{1}{2} I} - R$. Also, $E = T \tan \frac{1}{4} I$.

EXPLANATION AND USE OF TABLES

Given P.I. Sta. 83+40.7, $I = 45^\circ 20'$ and $D = 6^\circ 30'$ find:

Stations—P.C. = P.I. - T. $T = \frac{T \text{ for } 1^\circ \text{ Curve}}{D} + C$. From Tables V and VI

$$T = \frac{2398.8}{6.5} + .197 = 368.32 = 3 + 68.32. \text{ Sta. P. C.} = 83 + 40.7 - (3 + 68.32) = 79 + 72.38.$$

$$P. T. = P. C. + L, \text{ and } L = 100 \frac{I}{D} = 100 \frac{45.33}{6.5} = 697.38 \text{ Therefore, } P. T. = (79 + 72.38) + (6 + 97.38) = 86 + 69.76.$$

Offsets—Tangent offsets vary (approximately) directly with D and with the square of the distance. From Table III Tangent Offset for 100 feet = 5.669 feet. Distance = 80 - Sta. P. C. = 27.62. Hence offset = $5.66 \times \left(\frac{27.62}{100}\right)^2 = .432$ ft. Also, square of any distance, divided by twice the radius equals (approximately) the distance from tangent to curve. Thus $(27.62)^2 \div (2 \times 881.95) = .432$ ft.

Deflections—Deflection angle = $\frac{1}{2} D$ for 100 ft., $\frac{1}{4} D$ for 50 ft., etc. For "X" ft., Deflection Angle (in minutes) = $3 \times X \times D$. For Sta. 80 of above curve Deflection Angle = $3 \times 27.62 \times 6.5 = 53.86'$. Also Deflection Angle = dfl. for 1 ft. from Table III $\times X = 1.95 \times 27.62 = 53.86'$. For Sta. 181 Deflection Angle = $53.86' + \frac{6^\circ 30'}{2} = 4^\circ 8.86'$.

Externals—From Table V for 1° curve, with central angle of $45^\circ 20'$, $E = 479.6$. Therefore, for $6^\circ 30'$ curve, $E = \frac{479.6}{6.5} + \text{Correction from Table VI} = 7.378 + .039 = 7.417$.

Table X.—Calculation of Earthwork.

Width	HEIGHT														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.02	.04	.06	.07	.09	.11	.13	.15	.17	.18	.20	.22	.24	.26	.28
2	.04	.07	.11	.15	.18	.22	.26	.30	.33	.37	.41	.44	.48	.52	.56
3	.06	.11	.17	.22	.28	.33	.39	.44	.50	.56	.61	.67	.72	.78	.83
4	.07	.15	.22	.30	.37	.44	.52	.59	.67	.74	.81	.89	.96	1.04	1.11
5	.09	.19	.28	.37	.46	.56	.65	.74	.83	.93	1.02	1.11	1.20	1.30	1.39
6	.11	.22	.33	.44	.56	.67	.78	.89	1.00	1.11	1.22	1.33	1.44	1.55	1.67
7	.13	.26	.39	.52	.65	.78	.91	1.04	1.16	1.30	1.42	1.55	1.68	1.81	1.94
8	.15	.30	.44	.59	.74	.89	1.04	1.19	1.33	1.48	1.63	1.78	1.92	2.08	2.22
9	.17	.33	.50	.67	.83	1.00	1.17	1.33	1.50	1.67	1.83	2.00	2.17	2.33	2.50
10	.18	.37	.56	.74	.93	1.11	1.30	1.48	1.67	1.85	2.04	2.22	2.41	2.59	2.78
11	.20	.41	.61	.82	1.02	1.22	1.43	1.63	1.83	2.04	2.24	2.44	2.65	2.85	3.06
12	.22	.44	.67	.89	1.11	1.33	1.56	1.78	2.00	2.22	2.44	2.67	2.89	3.11	3.33
13	.24	.48	.72	.96	1.20	1.44	1.68	1.92	2.16	2.41	2.65	2.89	3.13	3.37	3.61
14	.26	.52	.78	1.04	1.30	1.55	1.81	2.08	2.33	2.59	2.85	3.11	3.37	3.63	3.89
15	.28	.56	.83	1.11	1.39	1.67	1.94	2.22	2.50	2.78	3.06	3.33	3.61	3.89	4.17
16	.30	.59	.89	1.18	1.48	1.78	2.07	2.37	2.67	2.96	3.26	3.56	3.85	4.15	4.44
17	.31	.63	.94	1.26	1.57	1.89	2.20	2.52	2.83	3.15	3.46	3.78	4.09	4.41	4.72
18	.33	.67	1.00	1.33	1.67	2.00	2.33	2.67	3.00	3.33	3.67	4.00	4.33	4.67	5.00
19	.35	.70	1.06	1.41	1.76	2.11	2.46	2.82	3.17	3.52	3.87	4.22	4.57	4.92	5.28
20	.37	.74	1.11	1.48	1.85	2.22	2.59	2.96	3.33	3.70	4.07	4.44	4.81	5.18	5.56
21	.39	.78	1.17	1.55	1.94	2.33	2.72	3.11	3.50	3.89	4.28	4.67	5.06	5.44	5.83
22	.41	.81	1.22	1.63	2.04	2.44	2.85	3.26	3.67	4.07	4.48	4.89	5.30	5.70	6.11
23	.43	.85	1.28	1.70	2.13	2.56	2.98	3.41	3.83	4.26	4.68	5.11	5.54	5.96	6.39
24	.44	.89	1.33	1.78	2.22	2.67	3.11	3.56	4.00	4.44	4.89	5.33	5.78	6.22	6.67
25	.46	.92	1.39	1.85	2.31	2.78	3.24	3.70	4.17	4.63	5.09	5.56	6.02	6.48	6.94
26	.48	.96	1.44	1.92	2.41	2.89	3.37	3.85	4.33	4.82	5.30	5.78	6.26	6.74	7.24
27	.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
28	.52	1.04	1.55	2.07	2.59	3.11	3.63	4.15	4.67	5.18	5.70	6.22	6.74	7.26	7.78
29	.54	1.07	1.61	2.15	2.68	3.22	3.76	4.30	4.83	5.37	5.91	6.44	6.98	7.52	8.06
30	.56	1.11	1.67	2.22	2.78	3.33	3.89	4.44	5.00	5.55	6.11	6.67	7.22	7.78	8.33
31	.57	1.15	1.72	2.30	2.87	3.44	4.02	4.59	5.17	5.74	6.32	6.89	7.46	8.04	8.61
32	.59	1.18	1.78	2.37	2.96	3.56	4.15	4.74	5.33	5.92	6.52	7.11	7.70	8.30	8.89
33	.61	1.22	1.83	2.44	3.05	3.67	4.28	4.89	5.50	6.11	6.72	7.33	7.94	8.55	9.17
34	.63	1.26	1.89	2.52	3.15	3.78	4.40	5.04	5.67	6.29	6.93	7.56	8.18	8.81	9.44
35	.65	1.30	1.94	2.59	3.24	3.89	4.53	5.18	5.83	6.48	7.13	7.78	8.42	9.08	9.72
36	.67	1.33	2.00	2.67	3.33	4.00	4.66	5.33	6.00	6.67	7.33	8.00	8.67	9.33	10.00
37	.68	1.37	2.06	2.74	3.42	4.11	4.79	5.48	6.17	6.85	7.54	8.22	8.91	9.59	10.28
38	.70	1.41	2.11	2.82	3.52	4.22	4.92	5.63	6.33	7.03	7.74	8.44	9.15	9.85	10.56
39	.72	1.44	2.17	2.89	3.61	4.33	5.05	5.78	6.50	7.22	7.95	8.67	9.39	10.11	10.83
40	.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.67	7.41	8.15	8.89	9.63	10.37	11.11

Table X gives the number of cubic yards in a TRIANGLE 1 foot deep for a given width and height. CAUTION: Values obtained from the above tables are for only the one TRIANGLE of the cross-section under consideration.

Corrections for tenths of feet in width and height may be made by considering the numbers on the table from 1 to 9 as tenths and taking one tenth the values found in the tables. For example, to find the number of cubic yards when Width = 16.2 and Height = H = 5.3, opposite 16 in "Width" column and under 5 in the "Height" column read 1.18. To correct for additional 0.2 foot of width, opposite 2 in the "Width" column and under 5 in the "Height" column, read 0.18 and correct to .018. To correct for additional 0.3 foot in height, under 3 in "Height" column and opposite 16 in "Width" column read 0.89 and correct to .089. Therefore, the total cubic yards in the given TRIANGLE for a depth of 1 foot = 1.18 + .018 + .089 = 1.587 or approximately 159 cu. yds. per 100 feet.

If width exceeds 40 feet, use one half real width and multiply result by 2. If both width and height are larger than values given on table use one half of each value and multiply result by 4.

939
965
918

305 10 45
111 10 10

194.00 35