

78

78

CROSS SECTION BOOK

375

KEUFFEL & ESSER CO.

DRAWING MATERIALS

AND

SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

Tables for Excavations and Embankments.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.

FOR SINGLE TRACK EXCAVATION.

"Copyright, 1895, by Keuffel & Esser Co."

| | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
|----|------|------|------|------|------|------|------|------|------|------|----|
| 0 | 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 0 |
| 1 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 1 |
| 2 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 2 |
| 3 | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 | 12.6 | 12.7 | 12.8 | 12.9 | 3 |
| 4 | 13.0 | 13.1 | 13.2 | 13.3 | 13.4 | 13.5 | 13.6 | 13.7 | 13.8 | 13.9 | 4 |
| 5 | 14.0 | 14.1 | 14.2 | 14.3 | 14.4 | 14.5 | 14.6 | 14.7 | 14.8 | 14.9 | 5 |
| 6 | 15.0 | 15.1 | 15.2 | 15.3 | 15.4 | 15.5 | 15.6 | 15.7 | 15.8 | 15.9 | 6 |
| 7 | 16.0 | 16.1 | 16.2 | 16.3 | 16.4 | 16.5 | 16.6 | 16.7 | 16.8 | 16.9 | 7 |
| 8 | 17.0 | 17.1 | 17.2 | 17.3 | 17.4 | 17.5 | 17.6 | 17.7 | 17.8 | 17.9 | 8 |
| 9 | 18.0 | 18.1 | 18.2 | 18.3 | 18.4 | 18.5 | 18.6 | 18.7 | 18.8 | 18.9 | 9 |
| 10 | 19.0 | 19.1 | 19.2 | 19.3 | 19.4 | 19.5 | 19.6 | 19.7 | 19.8 | 19.9 | 10 |
| 11 | 20.0 | 20.1 | 20.2 | 20.3 | 20.4 | 20.5 | 20.6 | 20.7 | 20.8 | 20.9 | 11 |
| 12 | 21.0 | 21.1 | 21.2 | 21.3 | 21.4 | 21.5 | 21.6 | 21.7 | 21.8 | 21.9 | 12 |
| 13 | 22.0 | 22.1 | 22.2 | 22.3 | 22.4 | 22.5 | 22.6 | 22.7 | 22.8 | 22.9 | 13 |
| 14 | 23.0 | 23.1 | 23.2 | 23.3 | 23.4 | 23.5 | 23.6 | 23.7 | 23.8 | 23.9 | 14 |
| 15 | 24.0 | 24.1 | 24.2 | 24.3 | 24.4 | 24.5 | 24.6 | 24.7 | 24.8 | 24.9 | 15 |
| 16 | 25.0 | 25.1 | 25.2 | 25.3 | 25.4 | 25.5 | 25.6 | 25.7 | 25.8 | 25.9 | 16 |
| 17 | 26.0 | 26.1 | 26.2 | 26.3 | 26.4 | 26.5 | 26.6 | 26.7 | 26.8 | 26.9 | 17 |
| 18 | 27.0 | 27.1 | 27.2 | 27.3 | 27.4 | 27.5 | 27.6 | 27.7 | 27.8 | 27.9 | 18 |
| 19 | 28.0 | 28.1 | 28.2 | 28.3 | 28.4 | 28.5 | 28.6 | 28.7 | 28.8 | 28.9 | 19 |
| 20 | 29.0 | 29.1 | 29.2 | 29.3 | 29.4 | 29.5 | 29.6 | 29.7 | 29.8 | 29.9 | 20 |
| 21 | 30.0 | 30.1 | 30.2 | 30.3 | 30.4 | 30.5 | 30.6 | 30.7 | 30.8 | 30.9 | 21 |
| 22 | 31.0 | 31.1 | 31.2 | 31.3 | 31.4 | 31.5 | 31.6 | 31.7 | 31.8 | 31.9 | 22 |
| 23 | 32.0 | 32.1 | 32.2 | 32.3 | 32.4 | 32.5 | 32.6 | 32.7 | 32.8 | 32.9 | 23 |
| 24 | 33.0 | 33.1 | 33.2 | 33.3 | 33.4 | 33.5 | 33.6 | 33.7 | 33.8 | 33.9 | 24 |
| 25 | 34.0 | 34.1 | 34.2 | 34.3 | 34.4 | 34.5 | 34.6 | 34.7 | 34.8 | 34.9 | 25 |
| 26 | 35.0 | 35.1 | 35.2 | 35.3 | 35.4 | 35.5 | 35.6 | 35.7 | 35.8 | 35.9 | 26 |
| 27 | 36.0 | 36.1 | 36.2 | 36.3 | 36.4 | 36.5 | 36.6 | 36.7 | 36.8 | 36.9 | 27 |
| 28 | 37.0 | 37.1 | 37.2 | 37.3 | 37.4 | 37.5 | 37.6 | 37.7 | 37.8 | 37.9 | 28 |
| 29 | 38.0 | 38.1 | 38.2 | 38.3 | 38.4 | 38.5 | 38.6 | 38.7 | 38.8 | 38.9 | 29 |
| 30 | 39.0 | 39.1 | 39.2 | 39.3 | 39.4 | 39.5 | 39.6 | 39.7 | 39.8 | 39.9 | 30 |
| 31 | 40.0 | 40.1 | 40.2 | 40.3 | 40.4 | 40.5 | 40.6 | 40.7 | 40.8 | 40.9 | 31 |
| 32 | 41.0 | 41.1 | 41.2 | 41.3 | 41.4 | 41.5 | 41.6 | 41.7 | 41.8 | 41.9 | 32 |
| 33 | 42.0 | 42.1 | 42.2 | 42.3 | 42.4 | 42.5 | 42.6 | 42.7 | 42.8 | 42.9 | 33 |
| 34 | 43.0 | 43.1 | 43.2 | 43.3 | 43.4 | 43.5 | 43.6 | 43.7 | 43.8 | 43.9 | 34 |
| 35 | 44.0 | 44.1 | 44.2 | 44.3 | 44.4 | 44.5 | 44.6 | 44.7 | 44.8 | 44.9 | 35 |
| 36 | 45.0 | 45.1 | 45.2 | 45.3 | 45.4 | 45.5 | 45.6 | 45.7 | 45.8 | 45.9 | 36 |

Calculated by Julien A. Hall, M. Am. Soc. C. E.

Eugene Schaub,

Logan,

BAG
941778

Stk.

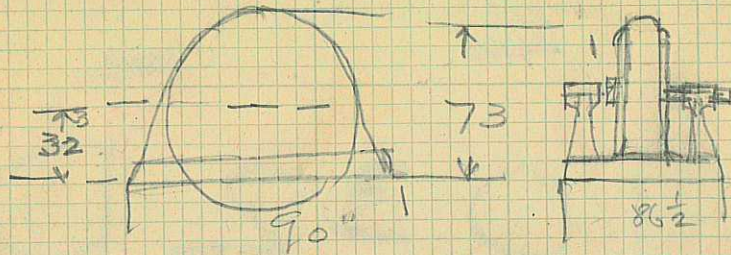
SAC
941273

Logan,

1942

1032D

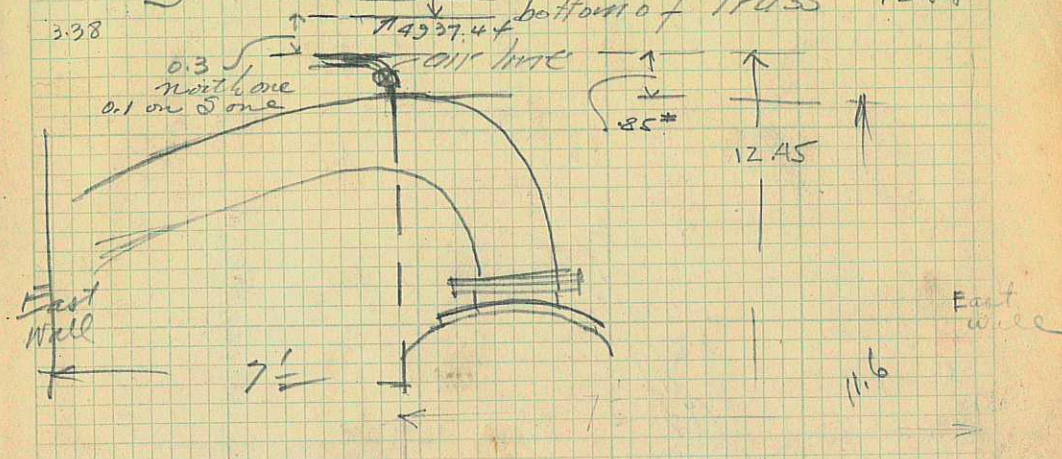
System of writing all
abstract description +
sketches on here



$$\begin{array}{r} 165 \\ 166 \\ \hline 331 \\ 990 \\ \hline 1321 \end{array}$$

$$\begin{array}{r} 551 \\ 161 \\ \hline 712 \\ 270 \\ \hline 982 \\ 271 \\ \hline 1253 \\ 271 \\ \hline 1524 \\ 271 \\ \hline 1795 \end{array}$$

Logan City, L. Pleasant 5-2 + -2 3

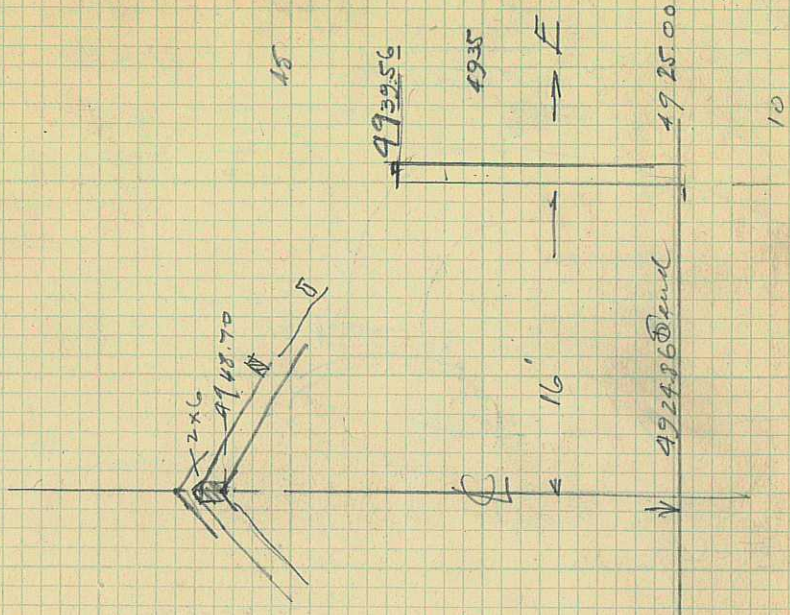


$\Delta H/I = 492826$

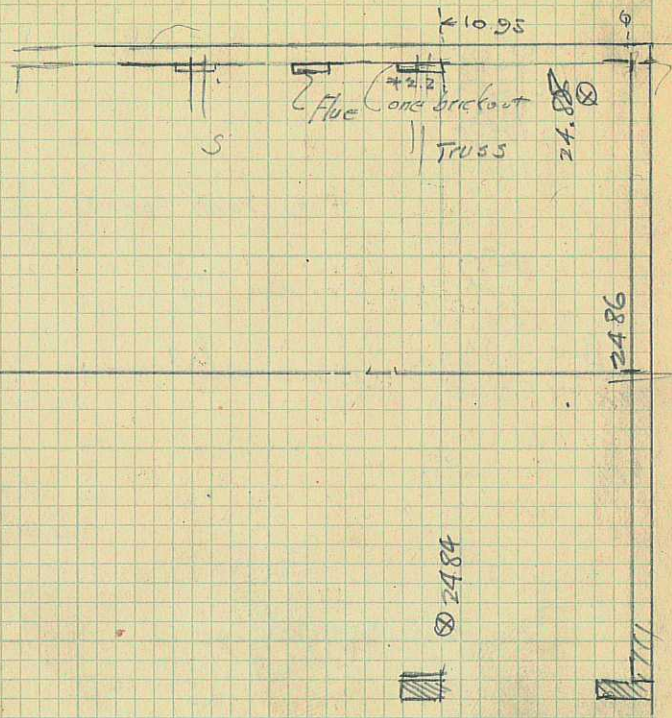
Under truss on floor 492486
 Floor
 at floor

FS 3.88 on N. E. of old door on or plate in concrete floor

4



5



6

any BS FS ELEV HI WM

306.25
291.07
134.30
117.0
106.0

by rock wall & from drive

94.53
Race 80.25
9 Run 65.06
58.00
51.20

3
2

5.24

4924.38

29.62

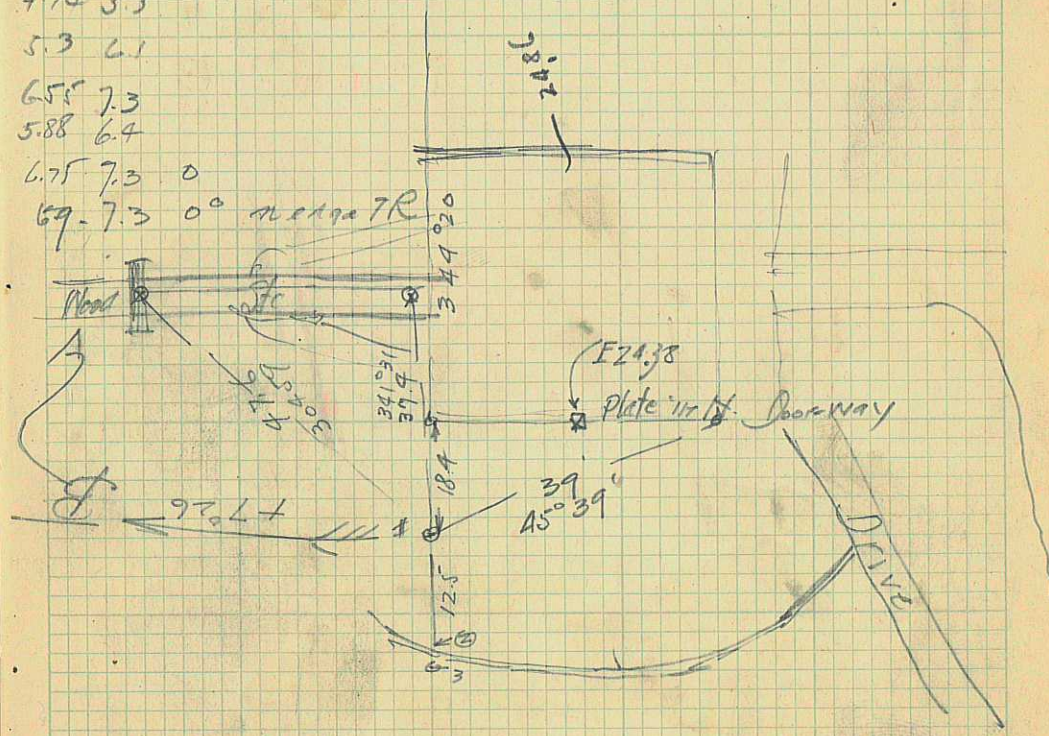
2.6
4.6

1-

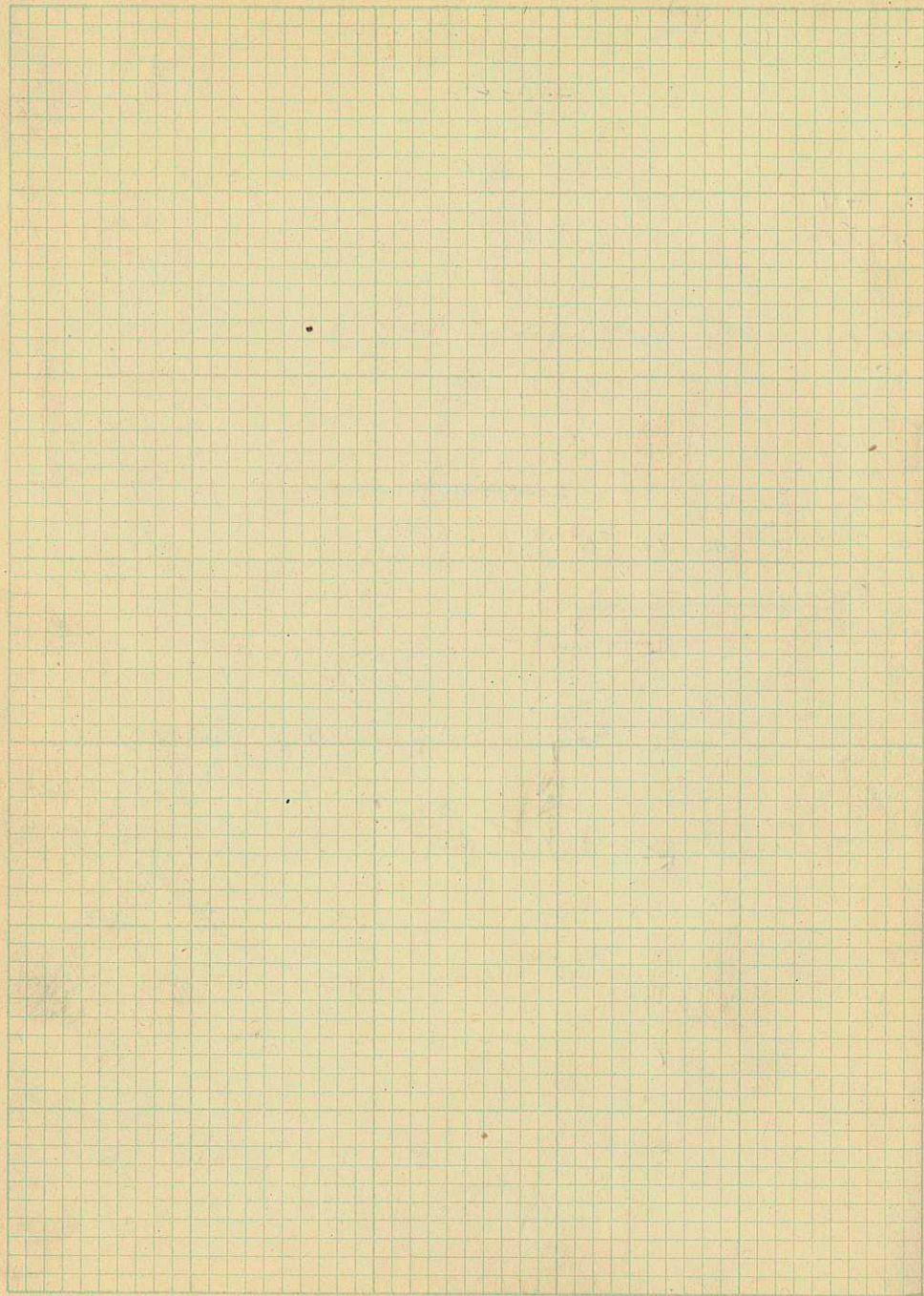
7

Station
L C U

395 4.15
4.105 4.22
4.60 4.75
4.39 4.75
4.74 5.3
5.3 6.1
6.55 7.3
5.88 6.4
6.75 7.3 0
69.7.3 0° merge 7R



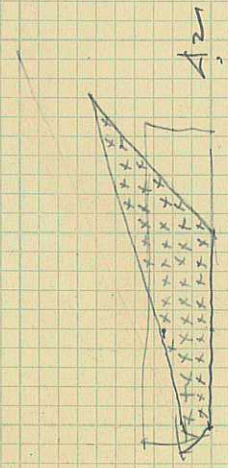
top wall

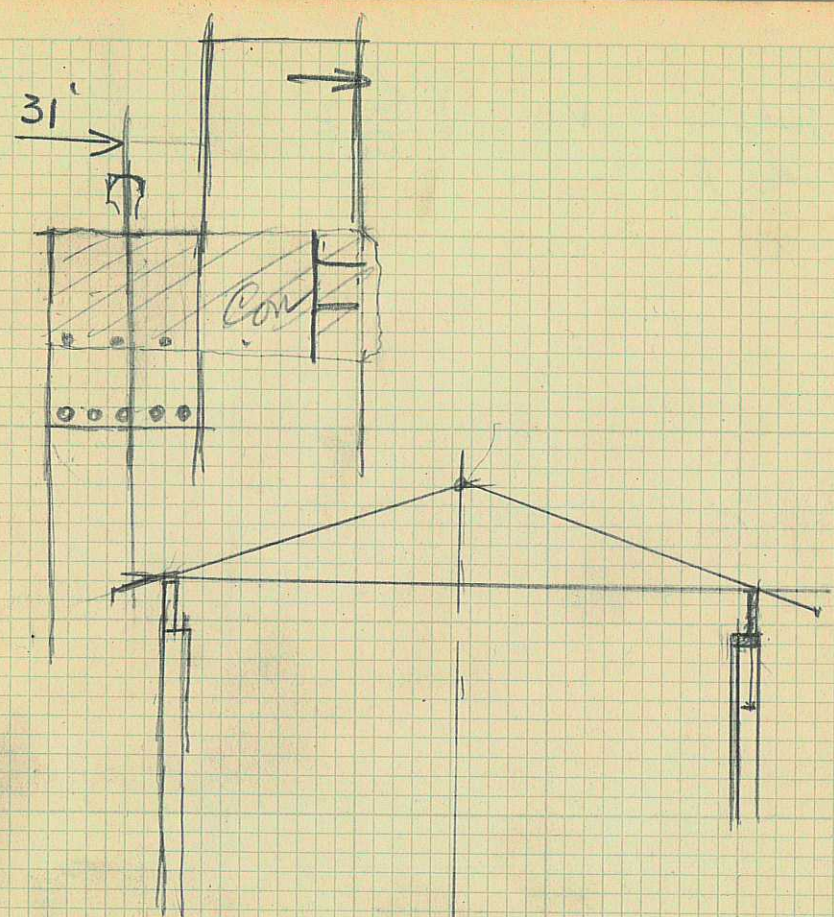
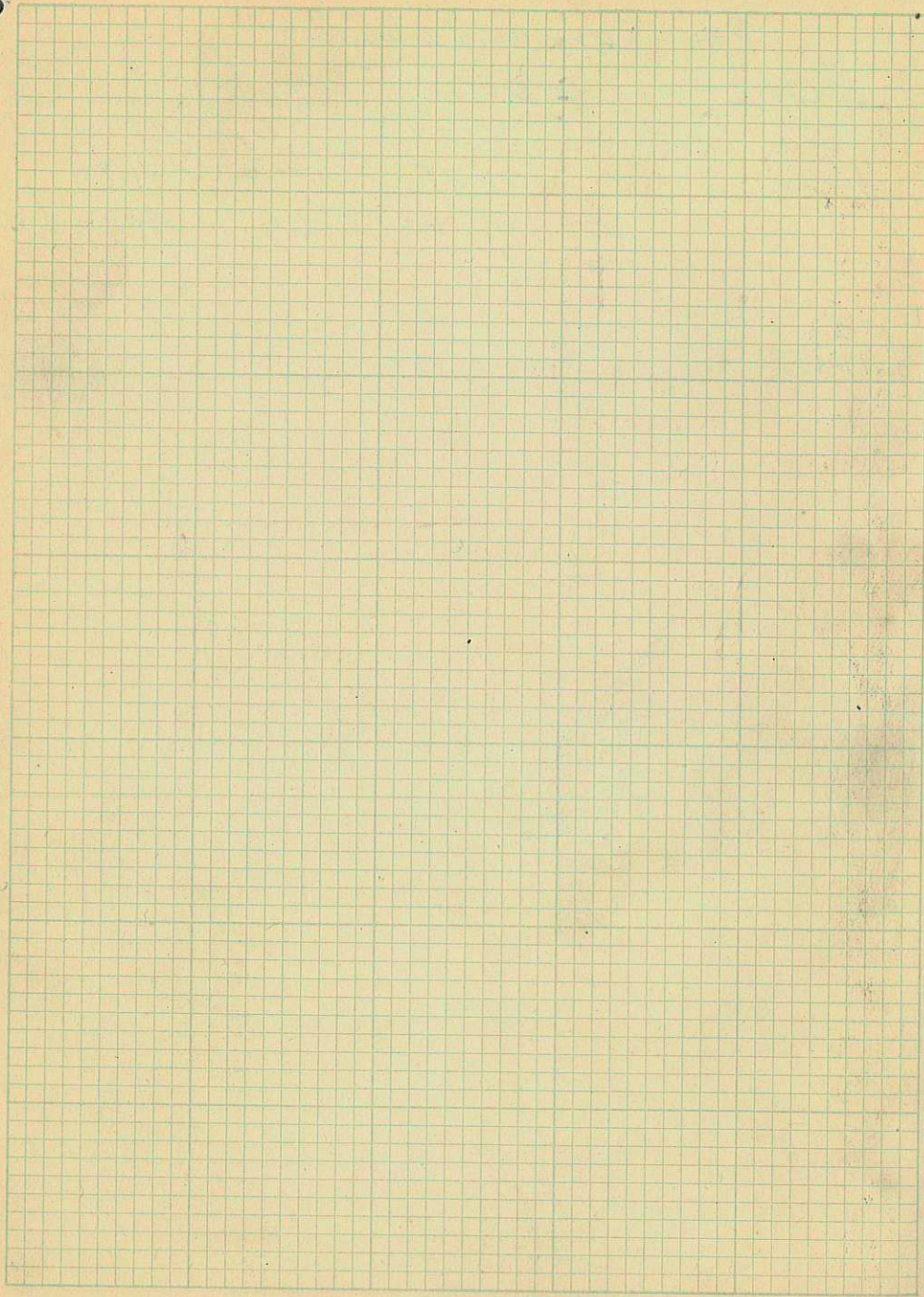


Pipe Computations
Slope 0.002

Slope 0.0025 } $v = 11.87$
max } $Q = 400 \text{ cfs}$

23
111





$$t = \frac{Lv}{hag} ; v = \frac{thag}{L}$$

a - 491 25' per tank

200 CFS draft
from States level

Station 0 0

4910

hag
Lv t

0 10 20 30 40 50 60 70 80 90

14

Eleo Webb & his wife Helena Webb of Richmond
to Sego milk. 1⁰⁰

Box at pt. 1015.66 west of M 205.967 # N
of SE cor lot 8. Blk 51. Pl A Rich Farm
N 82° 33' W 246.41' ft. to E bdy line
of the O-S LRR R of W, th N 10° 12' E in
the E. bdy line of sd. R of W 448.62 ft
to the N line of sd. lot 8, in sd. Blk.
thence S 89° 21' E in the N line of sd
N of sd. lot 8 152.11 ft to a pt. in
line with east bdy line of O S LRR R
R of W. thence N 10° 12' E in E. line
of the 'sd. R of W para same 200' at
13 for a cut of 200 135' mark
to S. bdy line of W. St. of Rich City
S 89° 21' E in S line of sd. St
90' to pt N 9° 08' E 622.72 of bdy
S 9° 08' W 622.72 to bdy.

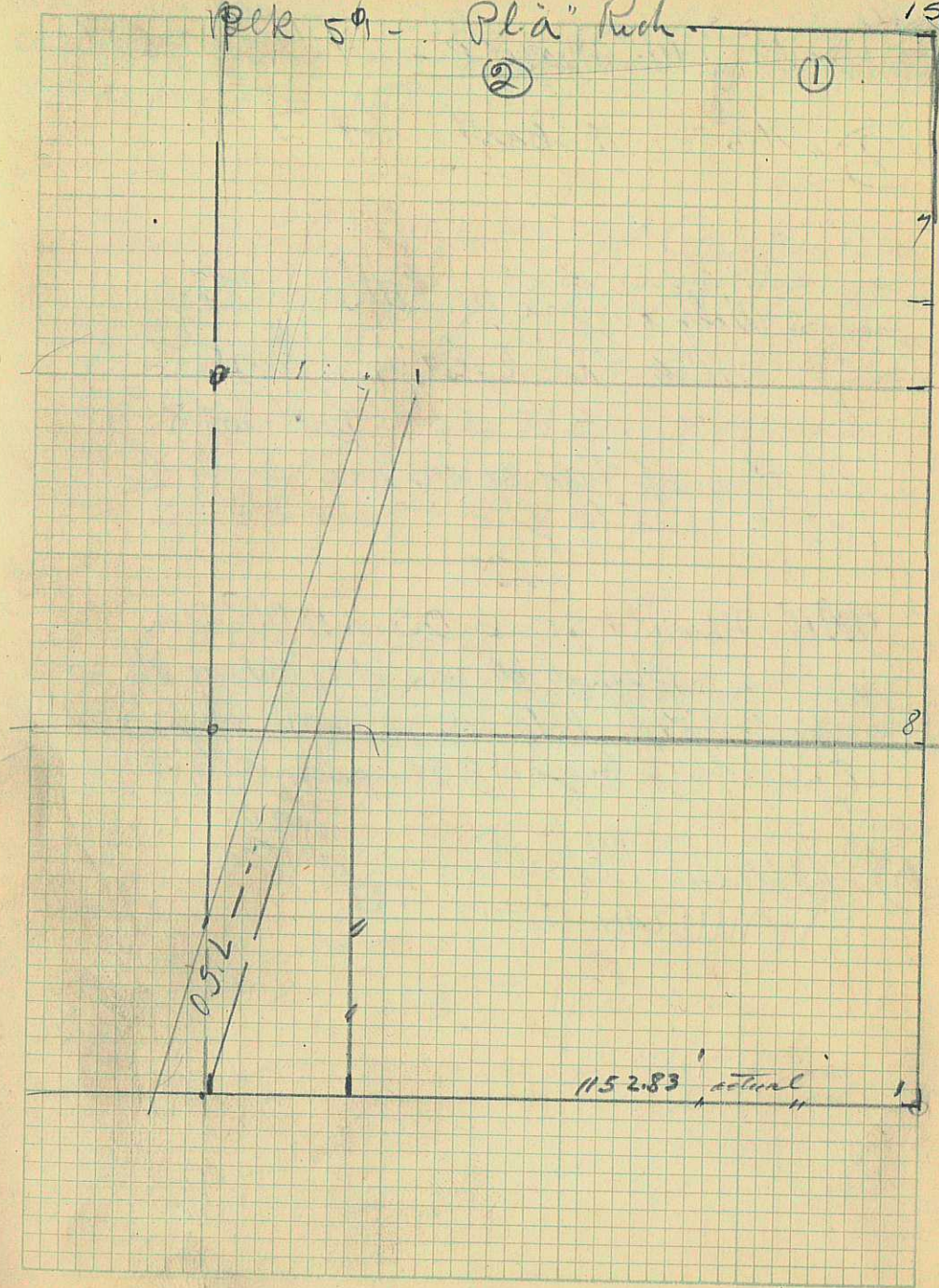
2.75 ac

15

Blk 51 - Pl A Rich

(2)

(1)



① Manner W. Merrill - T.D. ^{IN} 825-1875-6532 ^{Book}

② NE & N part lot 7

Simon Webb & Vera W. Little - to
Miss N. RR Co \$25.00

Part lot 8

A strip of land 33 on each side &
43 3/4 rods long -

NW Merrill to L.D.S. or H.B. Panton
Beg. at pt 41/2 W of SW cor RR 22
Pl. A Rich. City N 26 W S 26 V
856 rods to beg. This is north of main
st.

③ Mary Whittle - 2.90 ac 1875
NW cor lot 7 TD

Note O.S.L. on line 70-8276
Book 7 - given than east side width
as 124 = 198

④ 1905
Simon & Elyza Webb to Mt. Con. Milk Co.
2 1/100 ac. Beg. at a pt 58 or 5' W of
NE cor of lot 8. S 34 rods W 10 rods
to E line of O.S.L. RR at of way
N along ad. rt of way 28 rods; E 13 or 6'
N 8 or E 2 or 7' to beg.

⑤ 1908
Simon & Elyza Webb to Mt. Con. Milk Co.
2.93 ac. Beg. at pt 45' S of 945' W of NE cor
lot 8. S 8° 59' W 630'; N 80° 01' W 297 1/2'
N 8° 59' E along O.S.L. RR at of way
447'; E along ad. rt of way 165'; N 8° 59' E
along ad. rt of way 144'; E 8 1/2 ft to beg.
TD to Simon Webb. all
of lot 8 except 1 ac. in NW cor
TD to Simon Webb the NW cor 1 ac

18

redwoodville
 O.S.L. Beg. on S l. lot 6 on Sec 27
 14 m. E of bench 2 r. Wily meas. at rt. L₂ from
 the E of main track of C.V. branch of O.S.L.
 RR 188.4 E of SW cor lot 6. SW by para
 84.2 r. dist. from sd E for a dist
 438.57 to N line Co road; W along
 N l. of a road 33.4 ft. NE by para
 to + 40.4 rds bent from E of track for
 438.57 to S line of sd lot 6. E along
 S l. sd lot for dist of 52. To beg
 Harris to O.S.L. does not affect

A E Harris to O.S.L.

Beg at SW cor lot 6 on Sec 27 - 4 N 1 E
 E along S l. lot 6 188.4 to pt 2 rds at
 S SW by 4 para. to 92 rds dist
 from sd E for 169.46 ft to S line
 lot 7. W along S line lot 7 for dist
 of 33.4 ft. N E by 4 para to + 4 rds
 dist from S l. E for 169.46 ft to S l.
 Co Road. E along S line Co road for
 dist of 33.4 ft to beg.

Jorgee Hobson W 10
 Simon Webb all lot 1 70 ac
 1883

19

Church to = does not affect
 Mt. Con. Milk Co. does not
 affect - lands S of Main St.

Harriet B. Webb to 1885
 A. Sanson Webb - Com. 100
 30 rds. n of S E cor lot 1. N 10 r
 W 16 r. S 10 r E 16 r to beg

Merran Wood Merrill to 1903
 Simon Webb - Part lot 8 - 1/160 ac
 Com. at a pt 30 rds 4 10 ft W of
 NE cor of lots; W 2 rds 9 1/2 rds;
 E 2 rds 13; N 8 rds to beg.

Simon Webb to 1910
 Com. at Eli Webb John R. 22 1/2 a
 Webb Mary Ann Webb Traveler;
 Harriet E Webb, Lawrence &
 Joseph Webb Com. at the S E cor
 of lot 8, W 70 rds. 540 rds to 2 S
 St. W 10 rds. N until it connects
 with E bdy line of O.S.L. RR
 N on sd. bdy line to S bdy of
 Mt. C. Milk Co. on all 54 1/2 rds

E 15 rods N 38 rods + 3 ft to S side M. St. E along S side of st 54 1/2 rods to W side of 4th W. St. S along W side of sd st. 49 1/2 rods to beg.

3) Jose Webb et al heirs at law of Robt Webb dec. to Eli Webb. Part lots 142. BLK 51 - Pd. Rich Fran Com 36 1/4 rods N of SE cor of lot 8 N 13 1/4 rods or E to S side of Main St. W 56 rods to E body line of U. C. M. Co. thence S bearing W 13 3/8 rods. E 59 1/2 rods to beg.

Herbert D. Webb, Warrant to Henry S. White - part lot 1 15 1/2 ac. Beg at SE cor lot 11 W 70 rods N 40 rods. E 5 rods. S 10 rods. E 6 rods. S 8 rods, with rods S 10 rods. E 16 rods to beg. S 12 rods to beg.

Aff. 70 x 40 rods - SE cor. lot 1 - Mrs. recur 9 - 326

John R Webb known as Robert J Webb widower - 22 1/2 ac to Robt Leroy Webb. Char. R Webb, Jose Lawrence Webb, Mary E Webb Anderson, Etta L Webb Thompson - W. R. - aux und 5 1/2 Com SE cor lot 8, W 70 rods, S 40 rods to 2 S, W 10 rods N to X with E side of L R R at W N on sd R R at W to S body of U. C. M. Co. 54 1/2 rods; E 15 rods N 38 rods + 3 ft; to S side of Main St. E along S. side of sd st. 54 1/2 to W side of 4th W. S along W side of st. 48 to beg. (Pl not given.)

J. Roy Webb & W, Ches. & W
 Lawrence Webb & Wife, Laura
 Etta Thompson, Mary Anderson
 Eli Webb & Wife, Mary Ann Webb
 Traveller & hurb. Frank H. Jose Webb
 & W. Eli Webb & Wife &
 William R Lawrence under -
 to Wm R Lawrence W. H. Deed
 42ac

Same as (3)

Eli Webb et al to
 Jose Webb
 Com. at pt 70 rods W of SE cor
 lot 1 W 16 rods to E bay, line of
 OS R N 5/4 rods E 15 rods 2
 S 1/2 rods 1 ft. above, S 40'
 rods to beg.

XO Frank H Traveller same

Traveller to Seago milk
 402ac
 Com at pt in S line of lot one 70
 rods W of SE cor of sd lot 1. N 89° W
 in S line of sd lot 262 to E line
 of OS L rt of W. N 100° 12' E in E
 body line of sd. rt of way, 894.22 ft;
 S 82° 33' E 181.5 ft. S 16° 59' W 210.6'
 S 1° 20' W 659.7 ft to beg -

Beg. monson as mayor to
 Eli Webb - T Deed
 Beg at NE cor lot 8 Maloney
 W side 4th St. 8 rods to S body line
 of M st. W along S body line of M
 S to E line of rt. of way up OS L
 S. W. ly along E lsd rt of way to
 X with N line of lot 8. E
 along N line sd lots to 4th
 W st to beg.

24

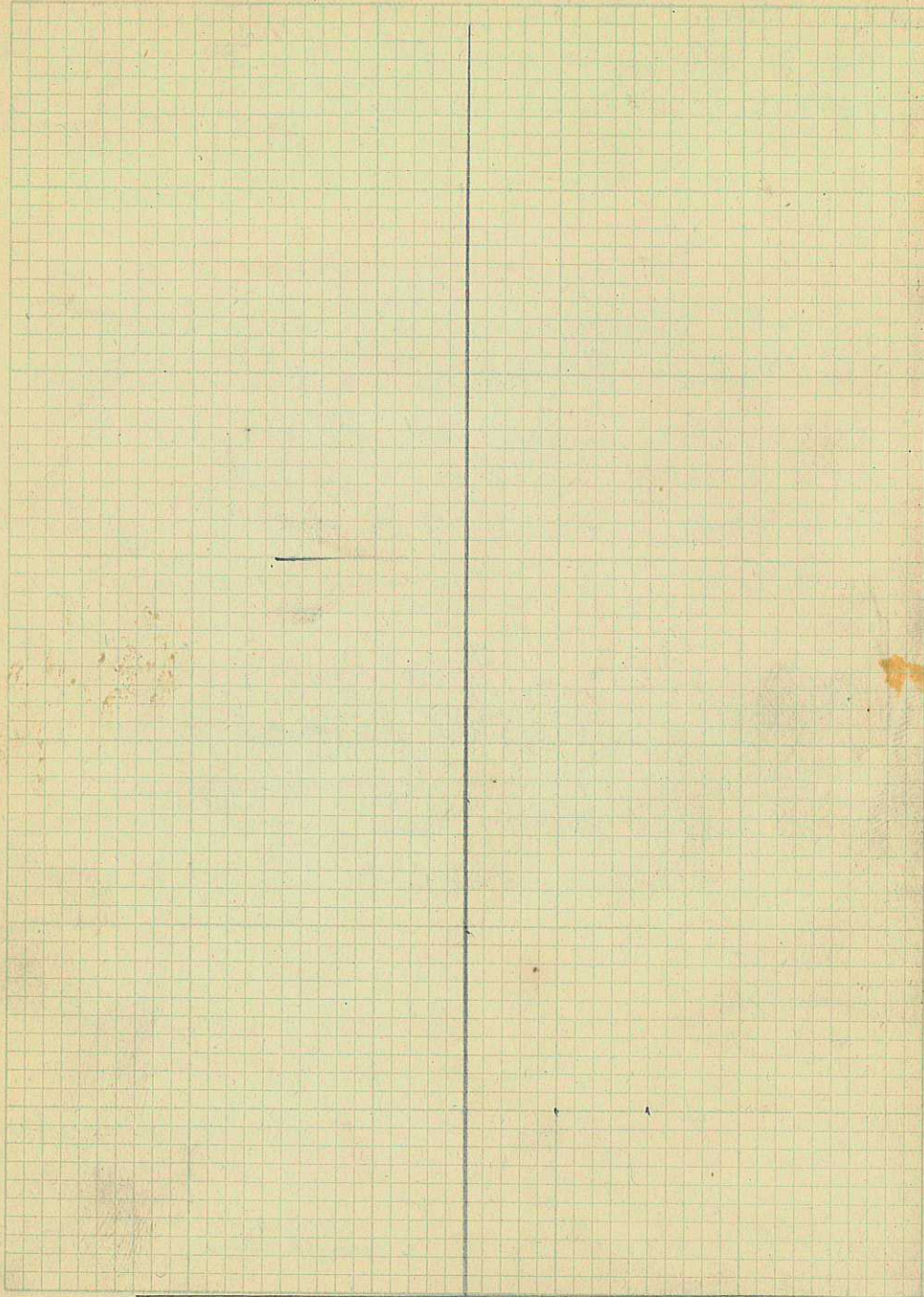
Eli Webb to 2.75a
 Beg at pt 1015.66' W of pt
 205.967' N of SE cor lot 8; N 82°33'W
 246.41' to E bdy l of O S L. rt of W
 N 10°12' E in E bdy start of way
 448.62' to N E of sd lot 8 sa blk.
 S 89°21' E in N E of lot 8 152.11'
 to pt on line with E bdy l of
 O S L R R rt of way. N 10°12'
 E in E lne of sd rt of way para
 the l of sd rt of way 200' ft at
 rt angles of 135' ft. to S bdy
 of main rt. S 89°21' E in S lne rt of
 90' - left N 9°08' E 622.72' of beg
 S 9°08' E 622.72' to beg.

Harriet Ely, Lawrence, Dec.
 to William R Lawrence
 and Hunt m.

Beg at S E cor of lot 8, W
 along S l sa lot 8. 10 rods. S 40 rods to
 N l of 2 50', W 10 rods, N 10' to E
 by line of O S L rt of way N 9' lne
 along sa l of W to pt due W on local
~~at~~ local survey line from beg; sd pt
 being ~~S~~ also on S lne of sd
 lot 8 of Ely S lne sa lot 15 rods, N 8°59' E
 to pt S 8°59' W 13 7/8' rt from S 2 main

25

Ctr. E 59 1/2 rd to W lne + W
 S on W lne sd at 36 1/2 rods to beg

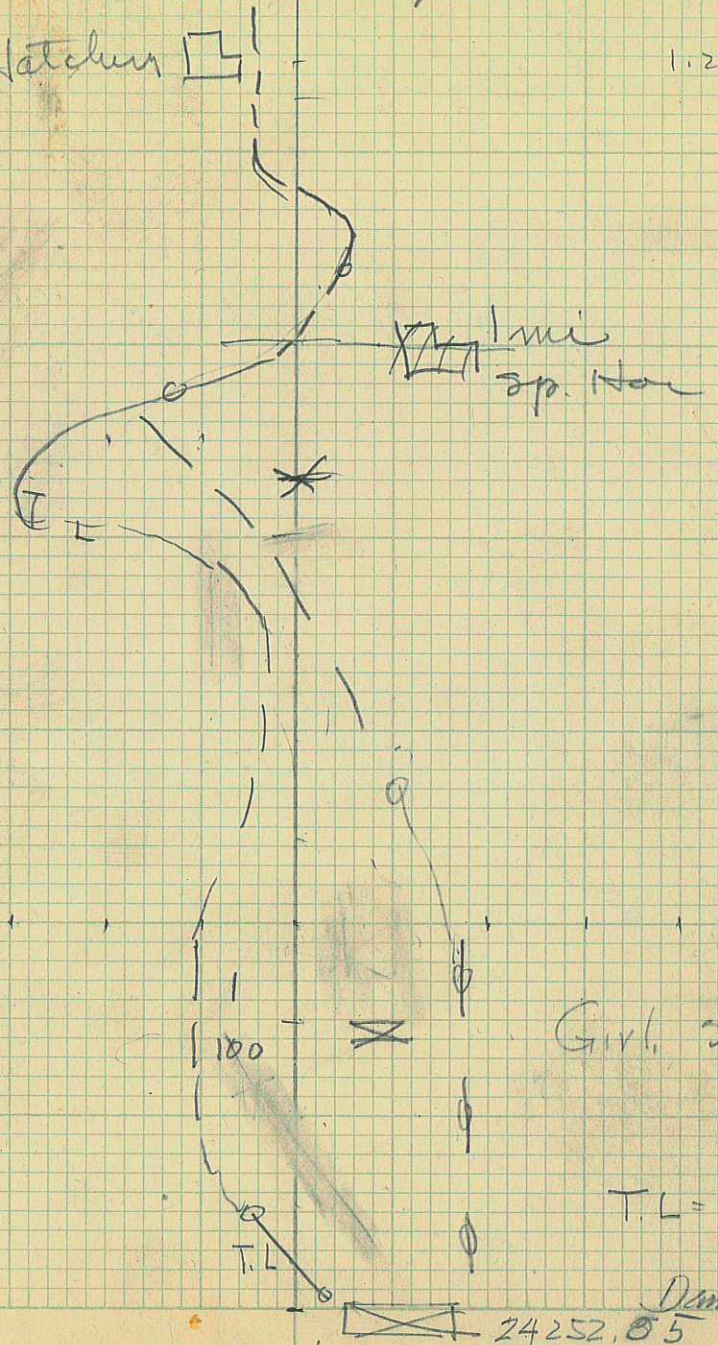


Top of Logan Canyon
Camp. Thomas

Hatchery



1.25 miles



Girls 20 si

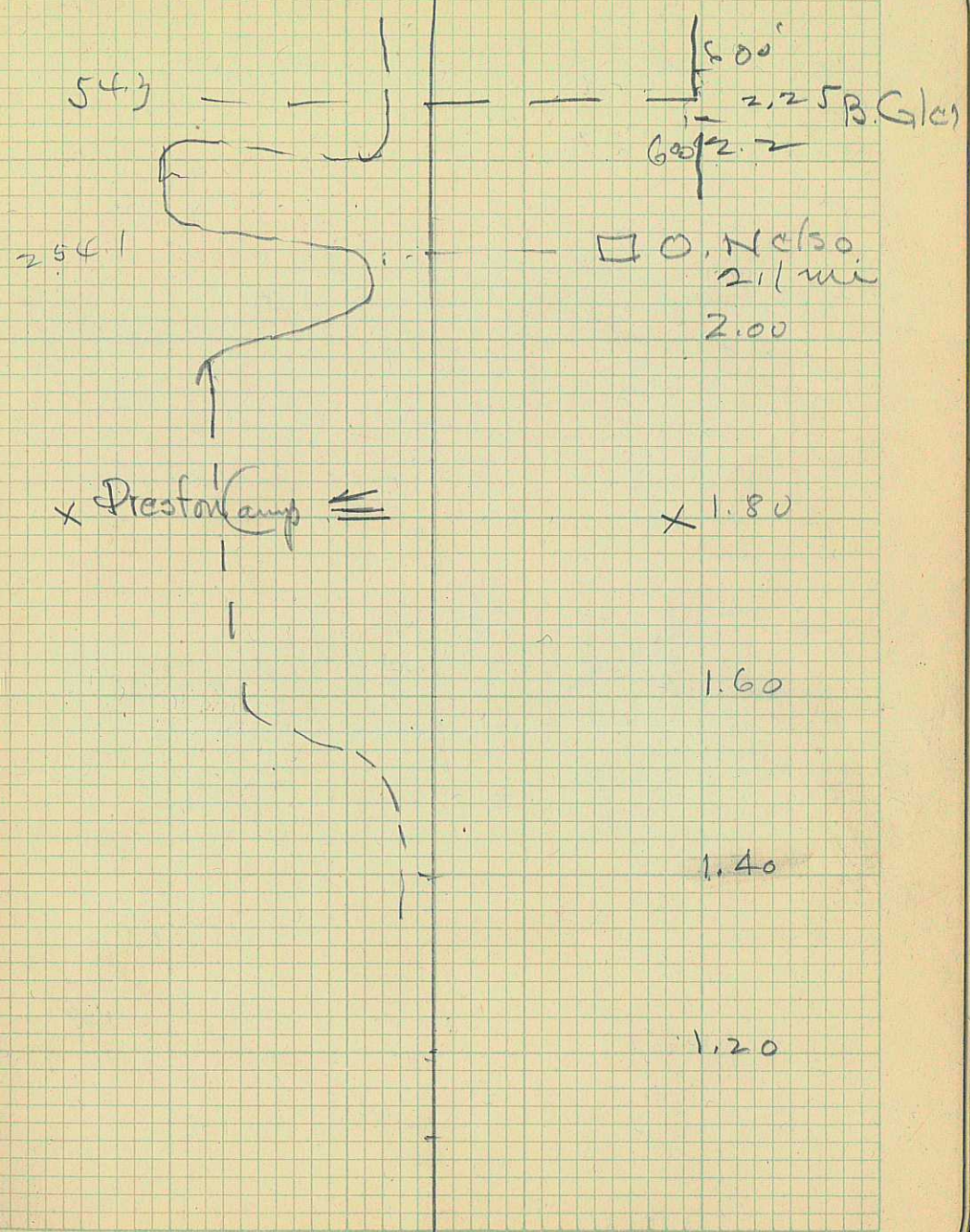
T.L. = Tele line

Dome

24252.05

$$\begin{array}{r} 253.85 \\ \underline{252.01} \\ \hline \end{array}$$

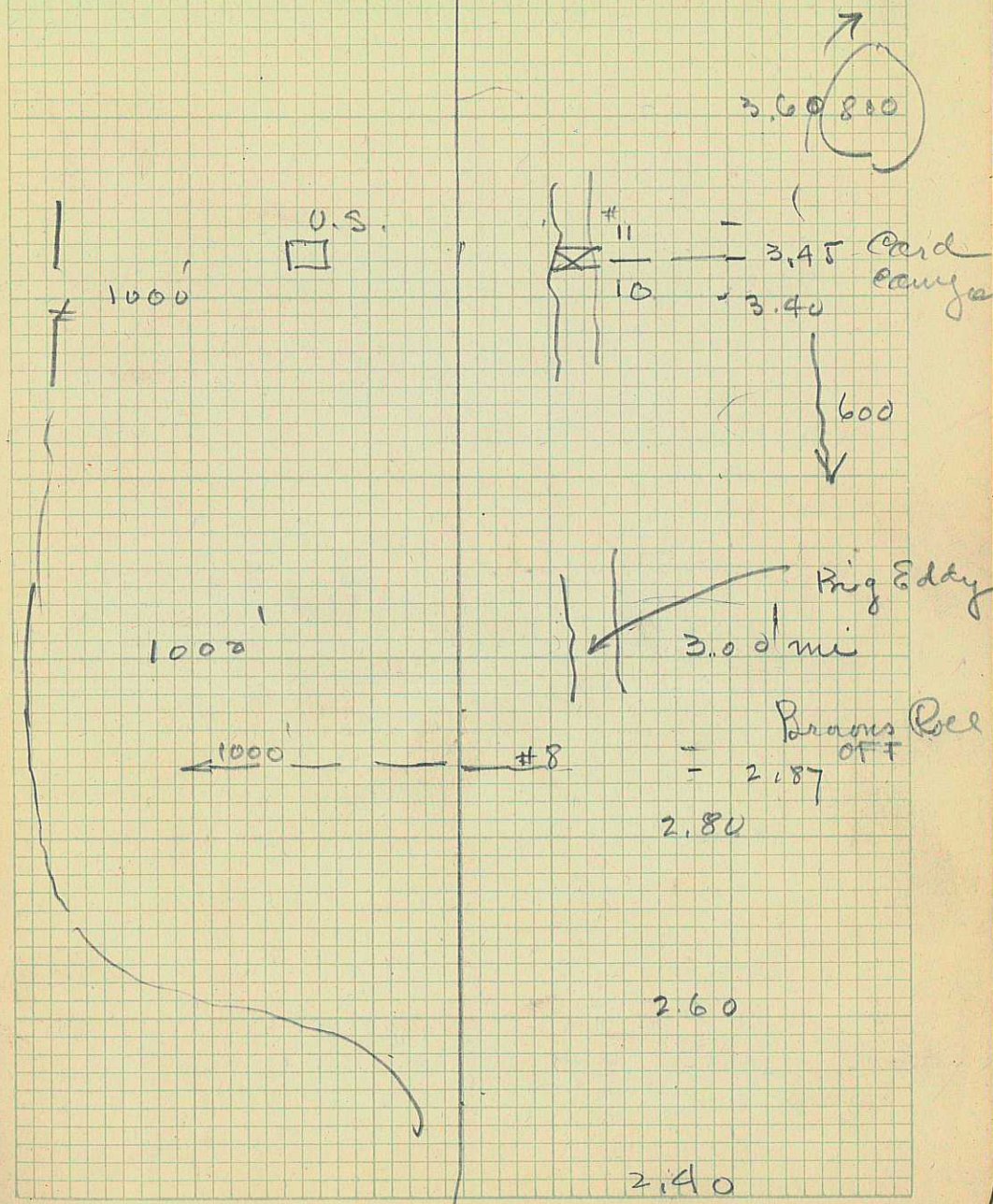
$$\begin{array}{r} 254.1 \\ \underline{552.21} \\ \hline \end{array}$$

$$\begin{array}{r} 54.3 \\ \underline{52.01} \\ \hline \end{array}$$


$$\begin{array}{r} 254.92 \\ 52.05 \\ \hline 2.87 \end{array}$$

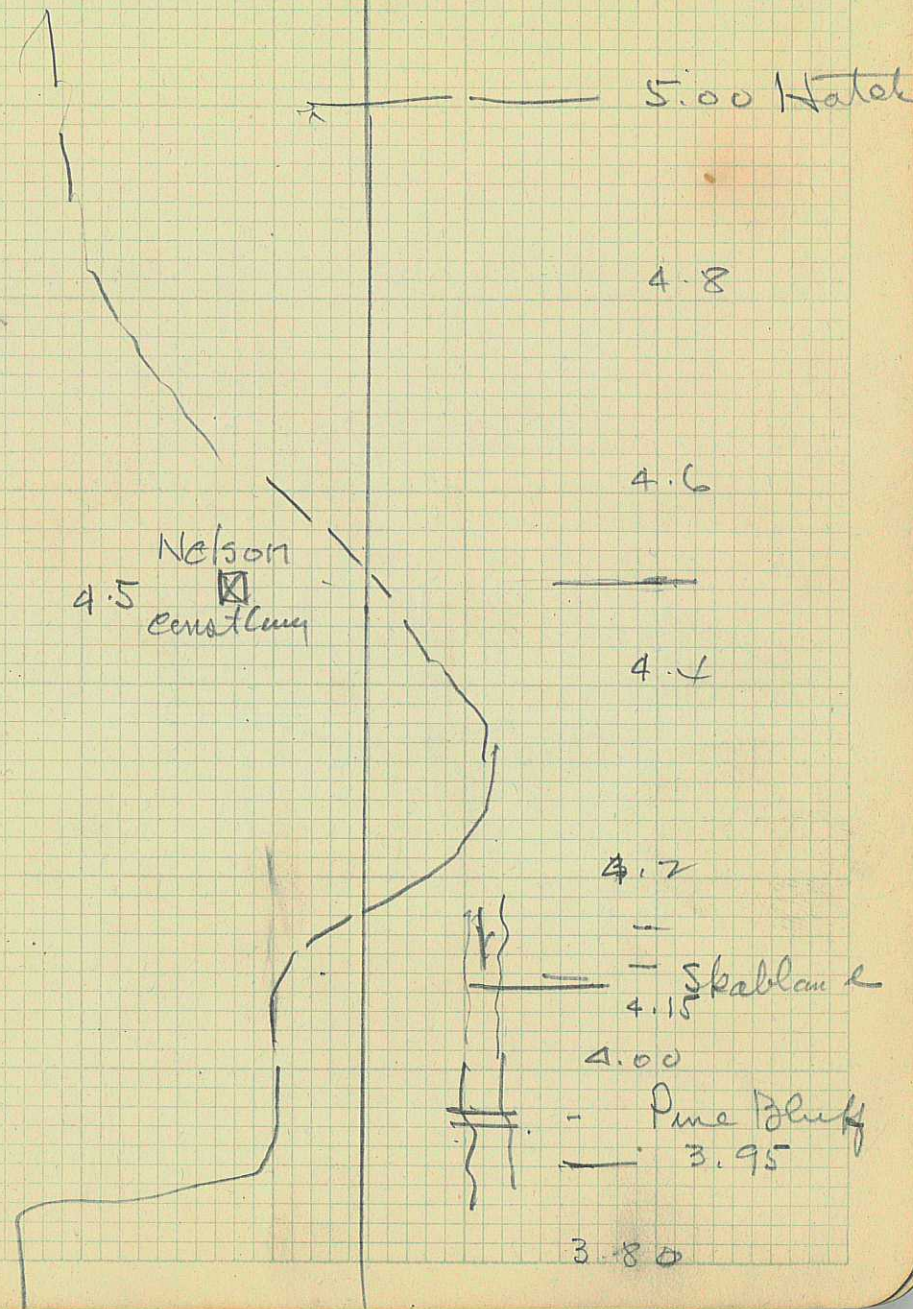
$$\begin{array}{r} 55.5 \\ 52.05 \\ \hline 3.45 \end{array}$$

$$\begin{array}{r} 56.00 \\ 52.00 \\ \hline \end{array}$$



56.2

37.
52

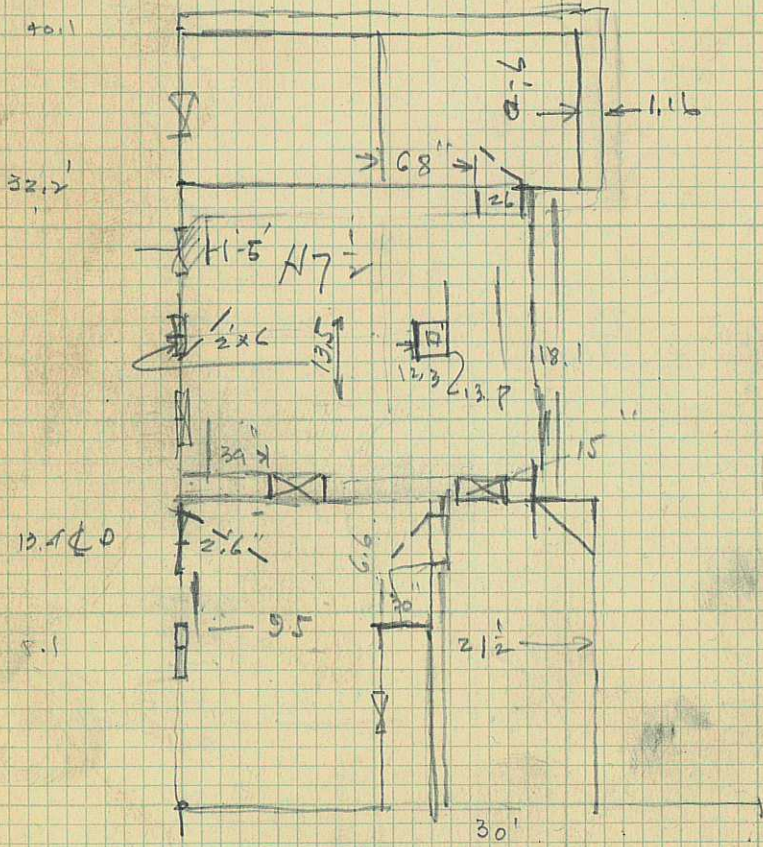


$$\begin{array}{r} 3.2 \\ 1.1 \\ \hline 4.3 \end{array}$$

$$\begin{array}{r} 10.5 \\ 2.5 \\ \hline 13.0 \end{array}$$

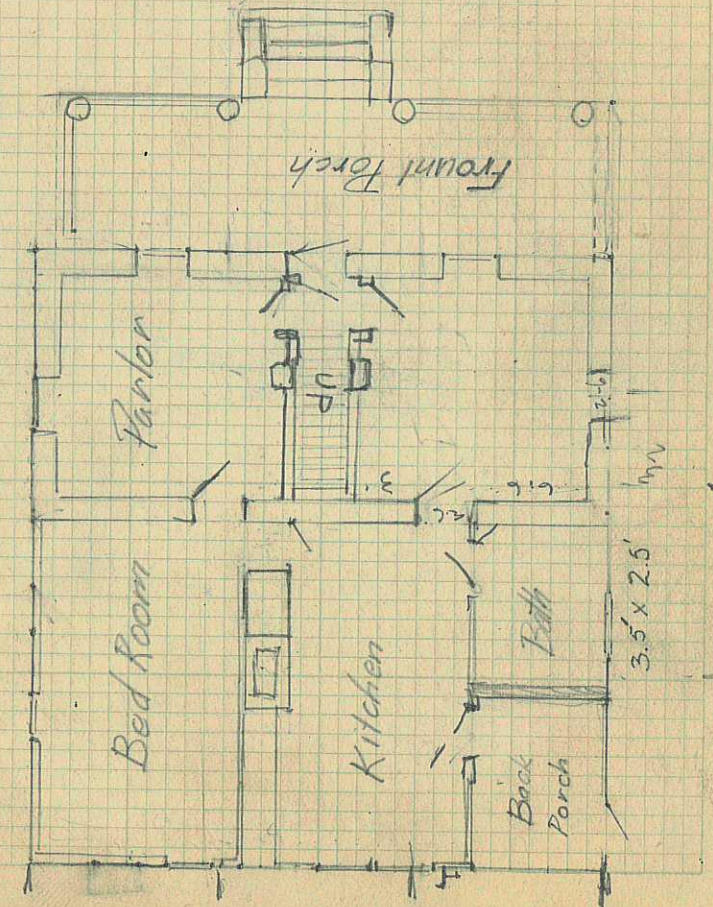
$$\begin{array}{r} 13.5 \\ 1.5 \\ \hline 15.0 \end{array}$$

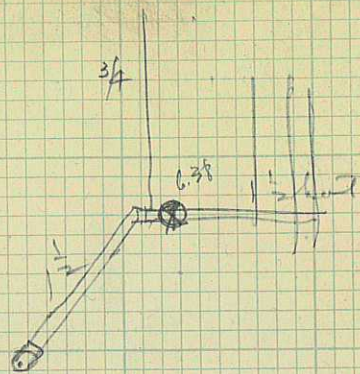
$$\begin{array}{r} 32.2 \\ 15 \\ \hline 47.2 \end{array}$$



FIRST FLOOR

2





- ④ 221°35' 6.38' ϕ over valves
- ④ 196°44' 7.72' end 1/2 hrt
- ③ 159°40' 9.25' end 2"
- ② 142°06' 6.15' end 1/4"
- ① 102°08' 3.7' l.c.

11-

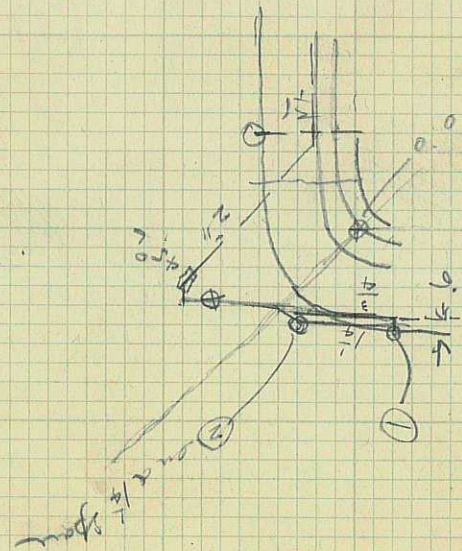
| RR | Elev | HI |
|-----|------|--------|
| 0.0 | 4.62 | 107.5 |
| | | 112.16 |

107.5
4.62
112.16

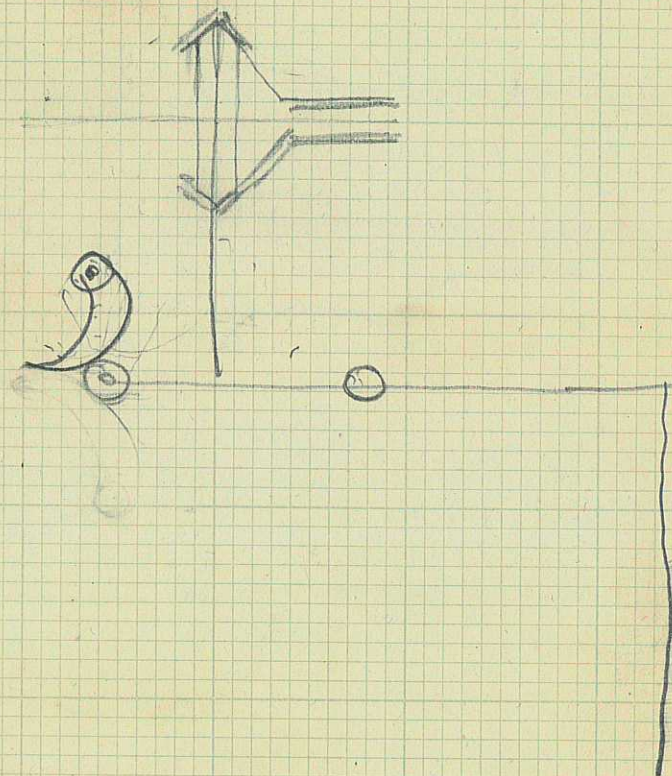
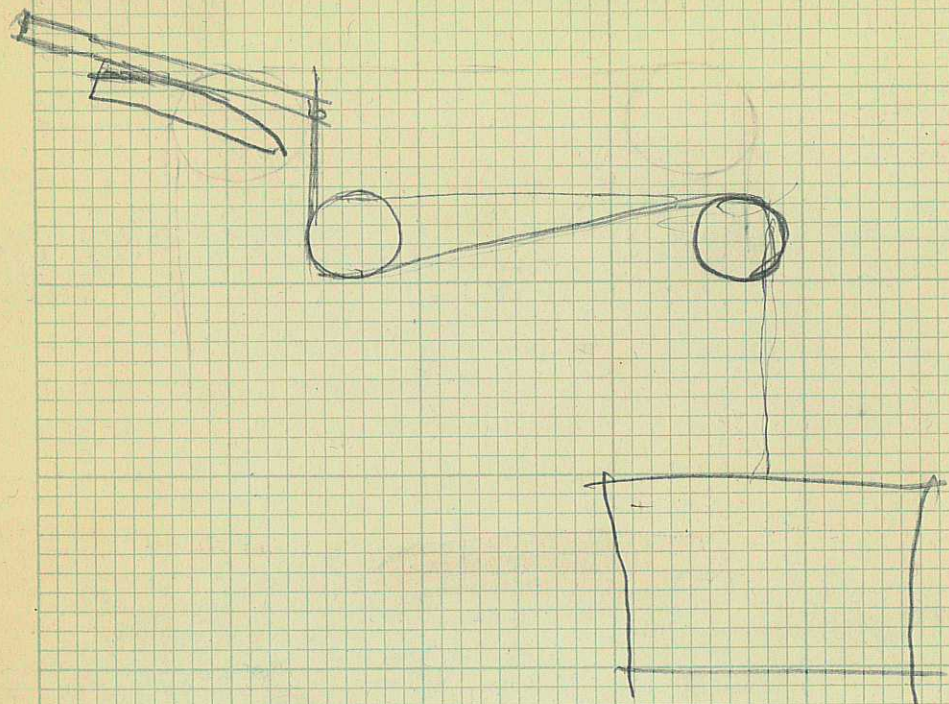
finished : 10.61
33
10.94
 ϕ 11.04 sub.

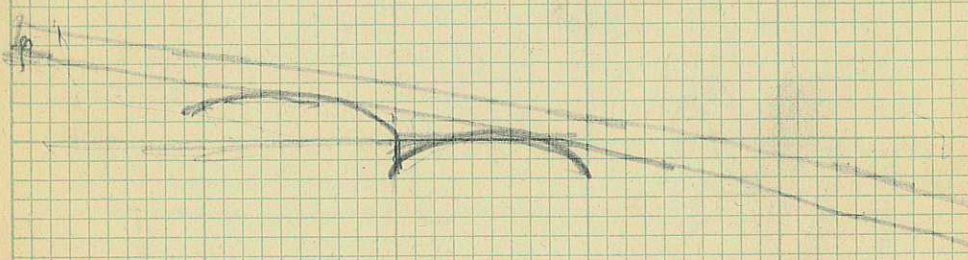
101.55 floor outside
101.45 floor around
 ϕ drain
floor O.S. 112.16
101.55
10.61

112.16
101.55
10.61
33
10.94

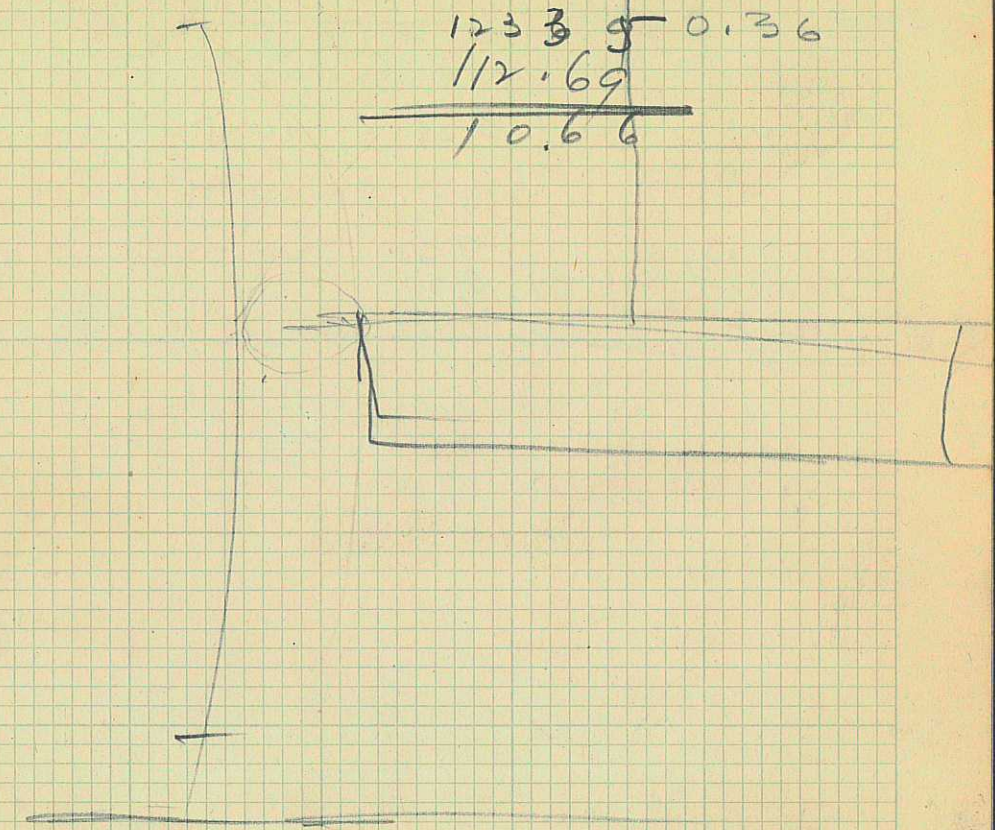


111
109
11.04
10.94
7
11.04
101.55
101.32
112.16
101.22
10.94





$$\begin{array}{r}
 12339 \quad 0.36 \\
 112.69 \\
 \hline
 10.66
 \end{array}$$



Elc

H

| | | | |
|---------------------|------|--------|--------|
| Bm 00 | 3.28 | 107.54 | 110.82 |
| | | 101.55 | |
| end 1 st | 9.60 | 101.22 | |
| in 2 | 6.21 | | |
| | 6.77 | | |

$$\begin{array}{r} 107.54 \\ 3.28 \\ \hline 110.82 \\ 101. \end{array}$$

$$\begin{array}{r} 101.55 \\ 3.3 \\ \hline \end{array}$$

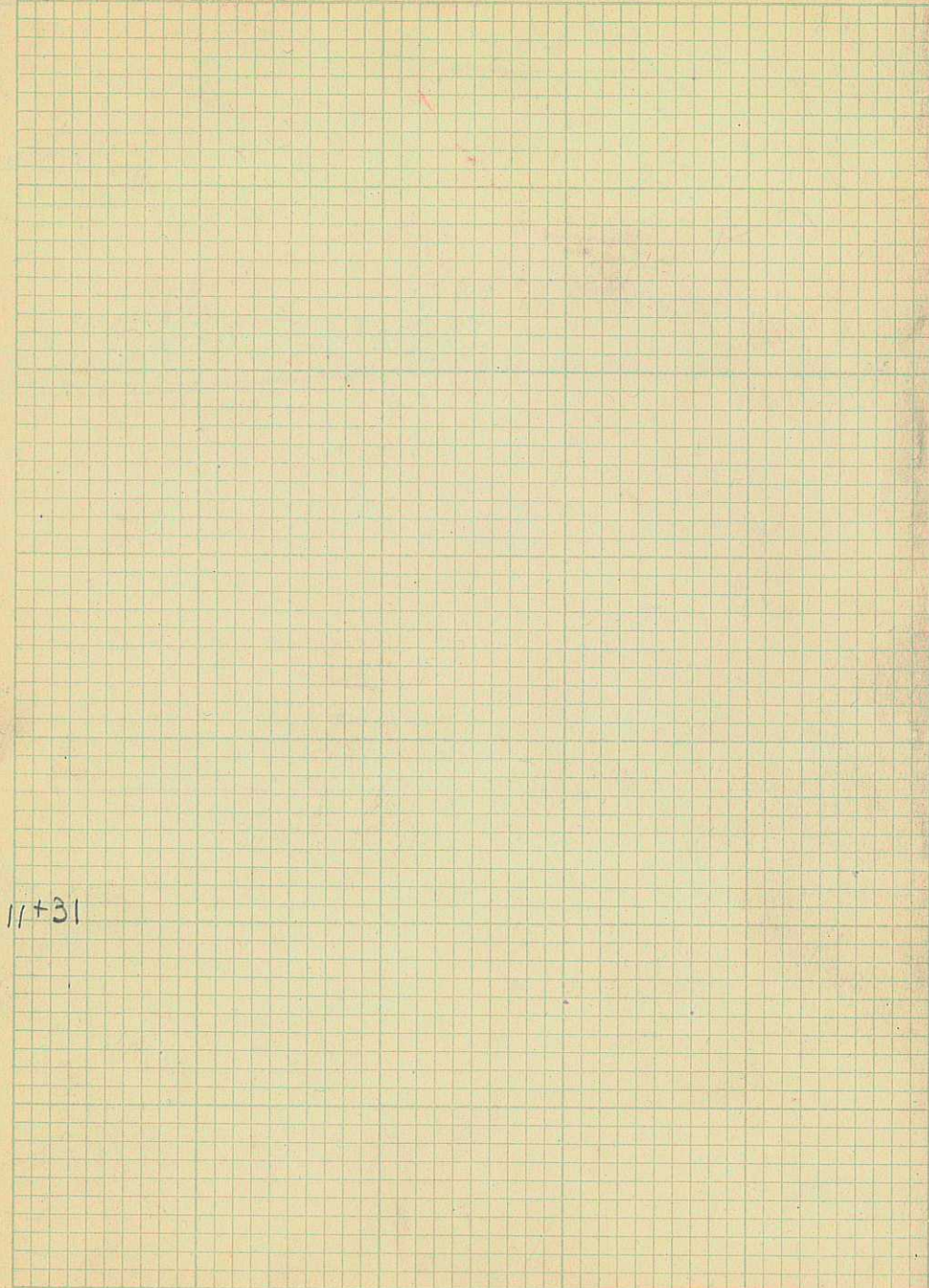
$$\begin{array}{r} 108.20 \\ 6.65 \\ \hline 114.85 \end{array}$$

O.S. finish floor
top foot.

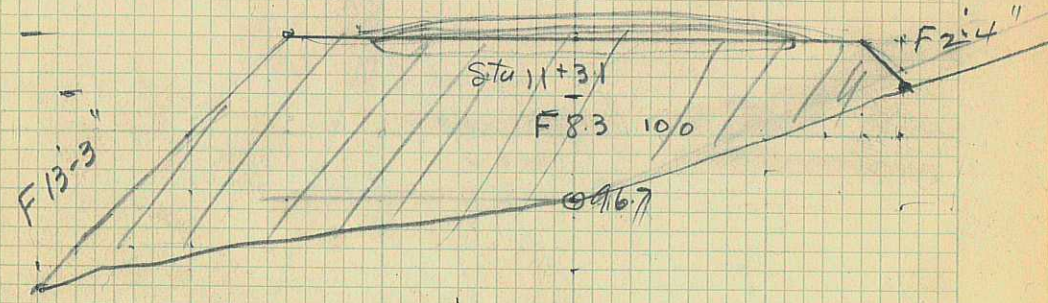
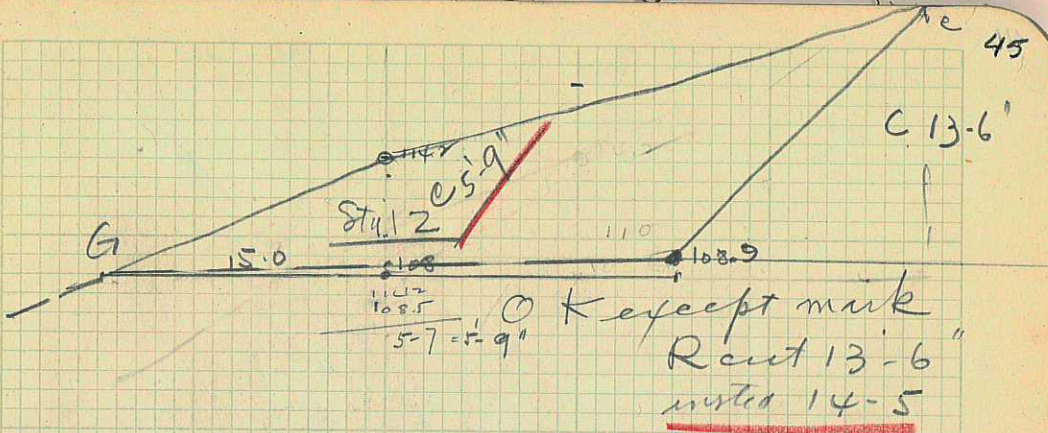
$$\begin{array}{r} 110.82 \\ 101.22 \\ \hline 9.60 \end{array}$$

$$\begin{array}{r} 110.82 \\ 6.21 \\ \hline 104.61 \end{array}$$

$$\begin{array}{r} 110.82 \\ 6.77 \\ \hline 104.05 \end{array}$$

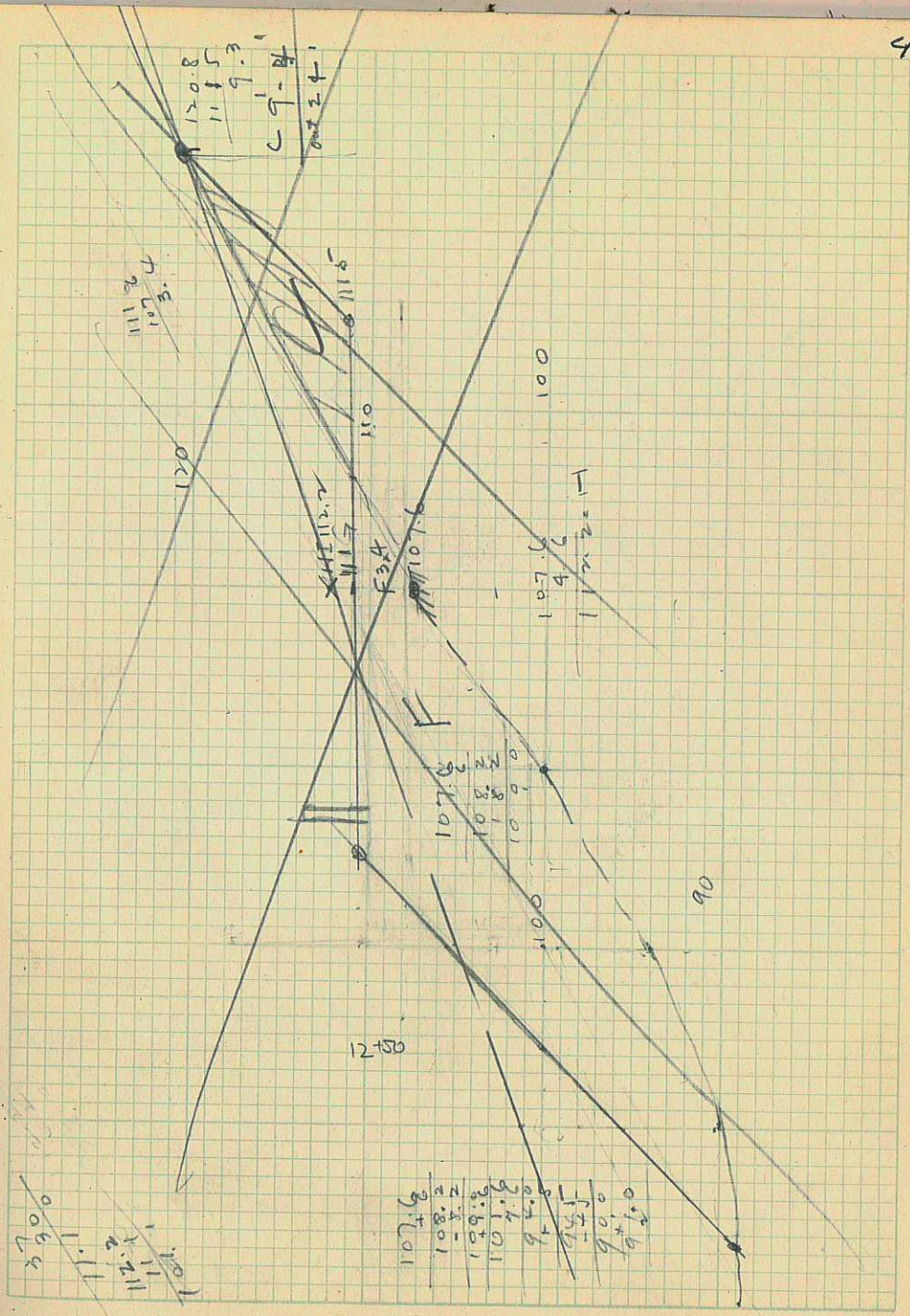
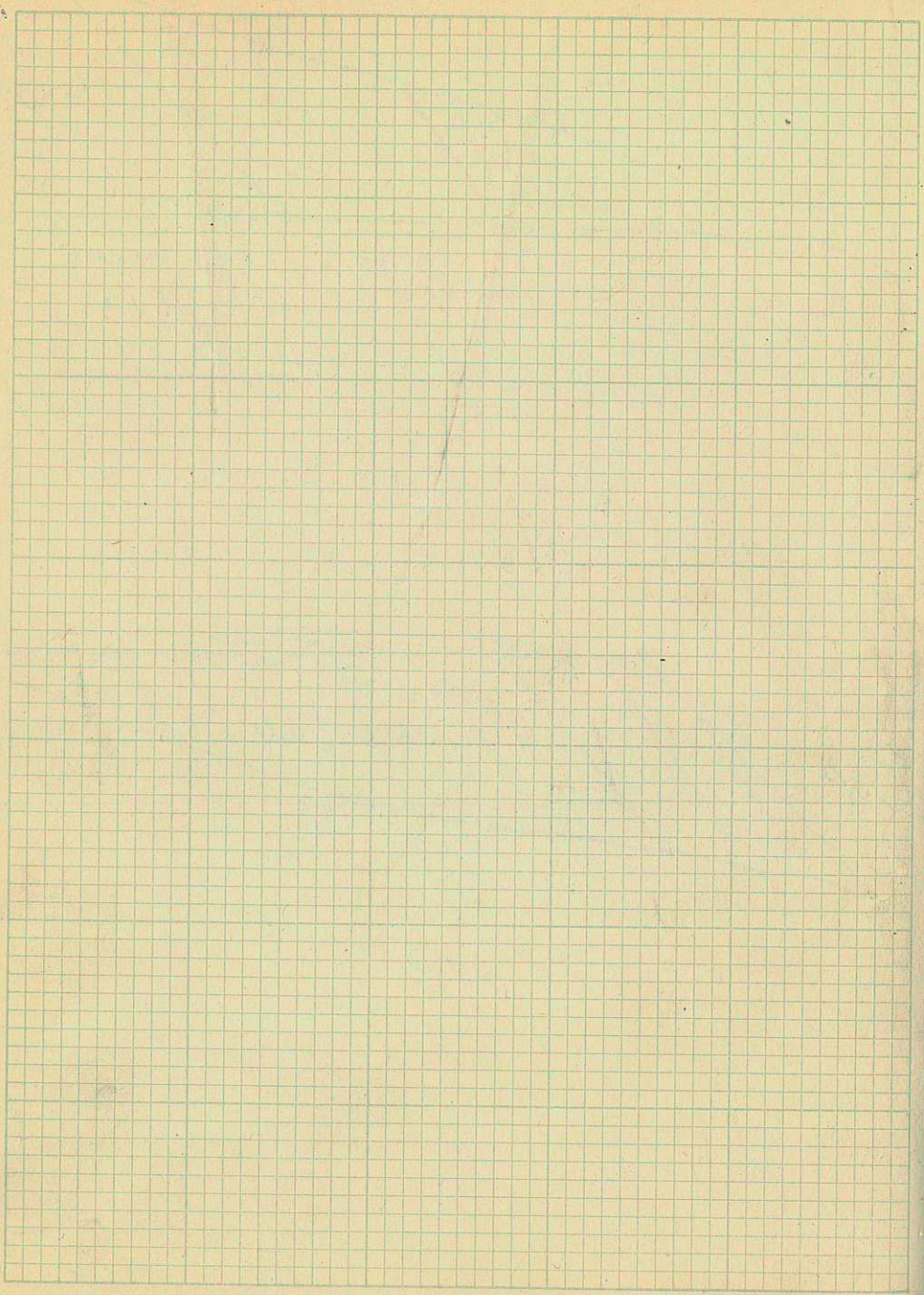


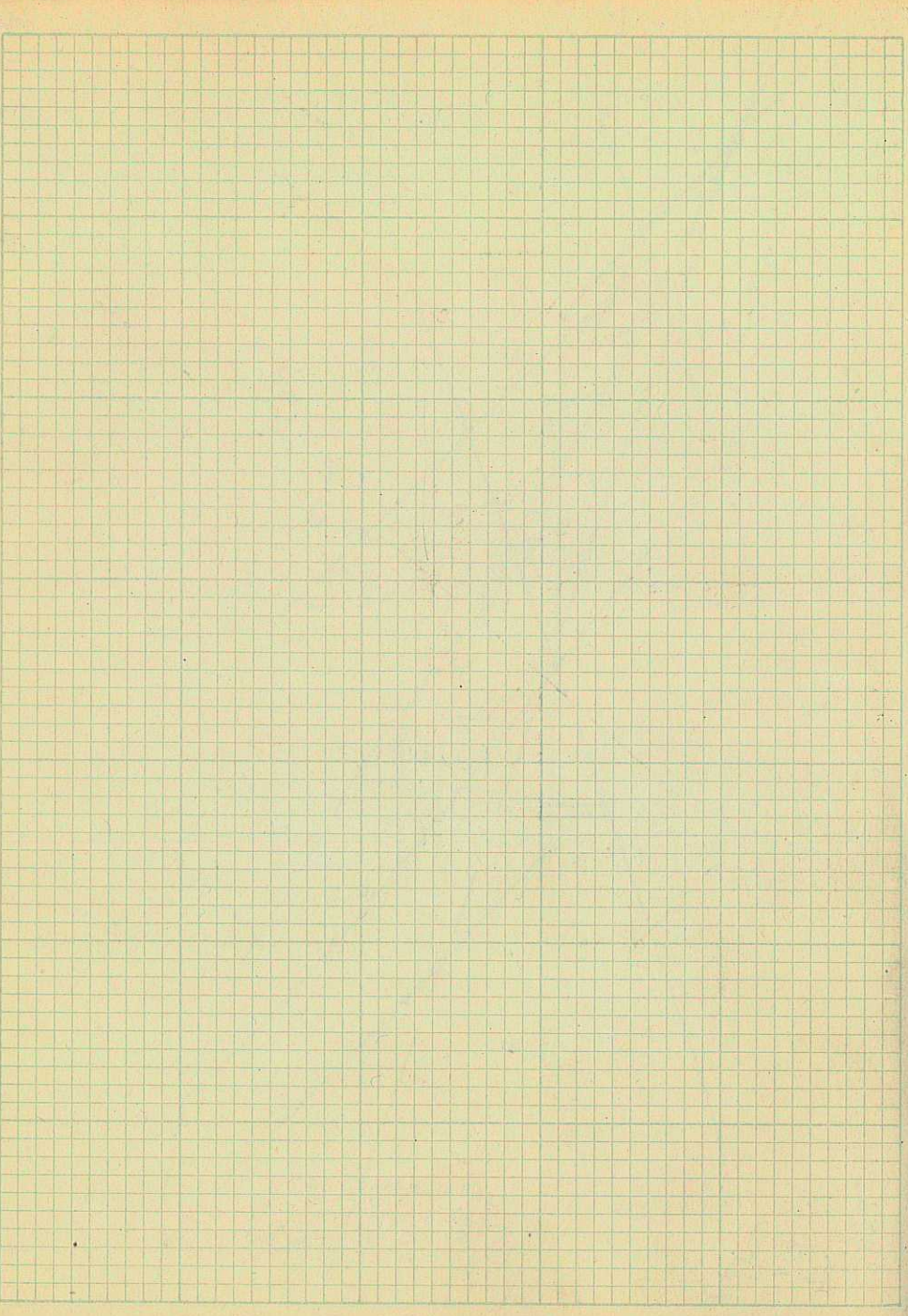
11+31



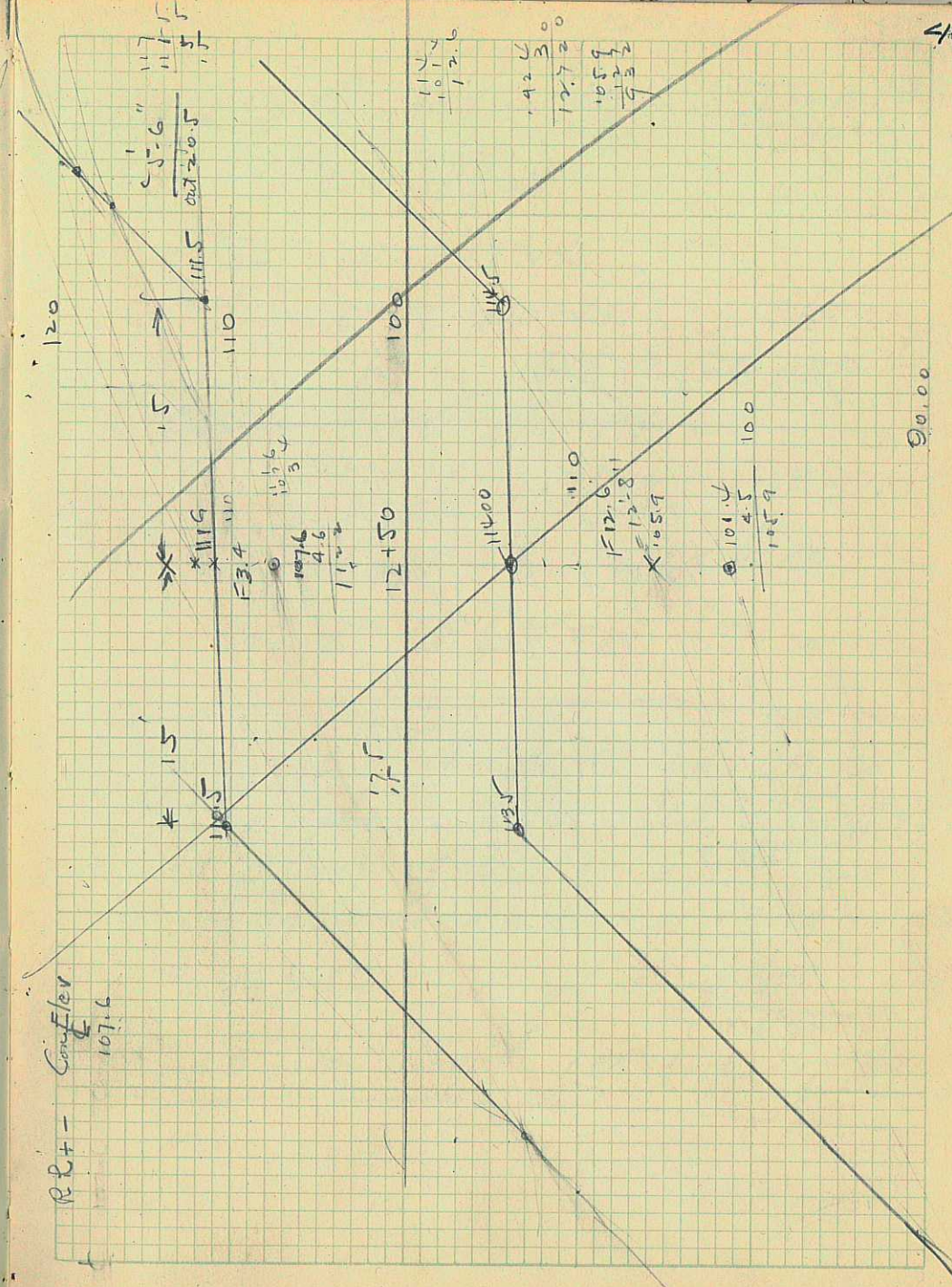
Sta 11+31
 F 8.3 100

\odot 96.7





R.L. - Center
107.6



1-22-34

| | |
|--------------------|--------|
| Glass. | 112.84 |
| Wt glass + alcohol | 137.05 |
| | <hr/> |
| | 75.79 |

Note 5 1/2 small test tubes equals 10g

270 drops = small test tube therefore for 1/2 of 10g of 1/2 drops = 7 1/2 drops of glyce.

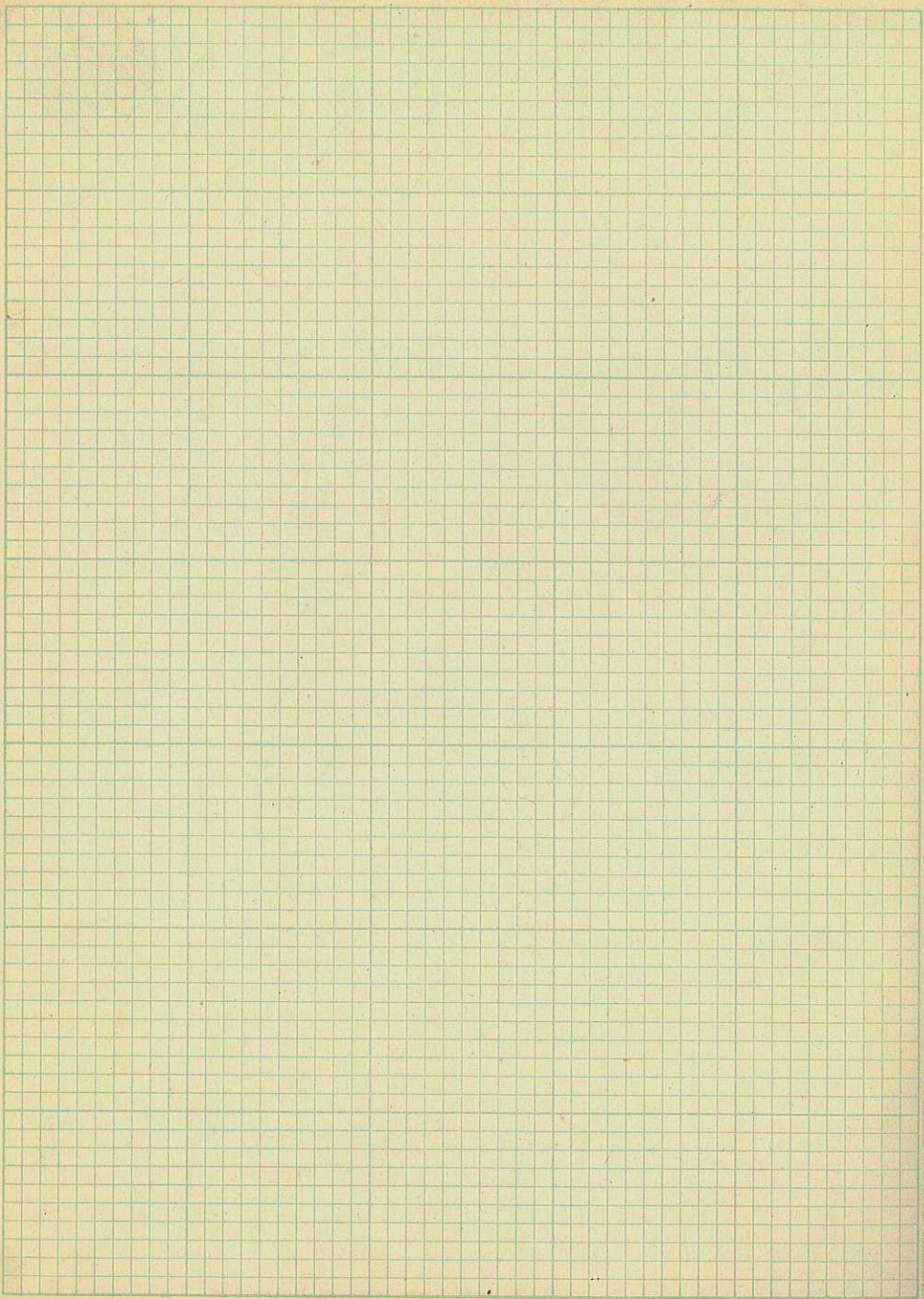
| | | |
|-----------|--------|--------|
| 2 75.79 | 75.79 | 75.79 |
| 3789 | 15158 | 113.68 |
| <hr/> | 7579 | 10.69 |
| 113.68 | 22737 | <hr/> |
| | 143.68 | 124.37 |
| | | |
| 4.15 | | |
| 379 | | |
| <hr/> | | |
| 36 | | |

Sum. VA = Unayite 1-23-1934

Conk. Study and Experimentation
 Ethalcoh. G. Vt. Glyc Hyd. Temp. Sum
 193 65° none
 " 1-75.79 8 drop 65° 50% by wt = 3.79g

Jan 24 - 1934
 Found to sp VA. too heavy put in 1/2 of Eth Alcoh into this 10g. ∴ sp of VA = 3.79
 $\frac{75.79}{2} + 75.79 = \frac{113.68}{2}$
 = 3 1/3 sp. — and added 6x drops of glyce.

1934
 Jan 24 - Added 10.69g Eth Alcoh. ∴ total alcoh = 124.37 and 3 1/3 sp. of this = 4.15 but since 3.79 is cl add 4.15 - 3.79 of VA = 0.36% VA so that $\frac{4.15}{124.37} =$
3 1/3 % with 144 drops of glyce.



$$\begin{array}{r} 627.50 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 627.50 \\ \hline 11 \end{array}$$

5-3-10
8-10
45.00
5-th month