106

TRANSIT BOOK.

#1

DIETZGEN

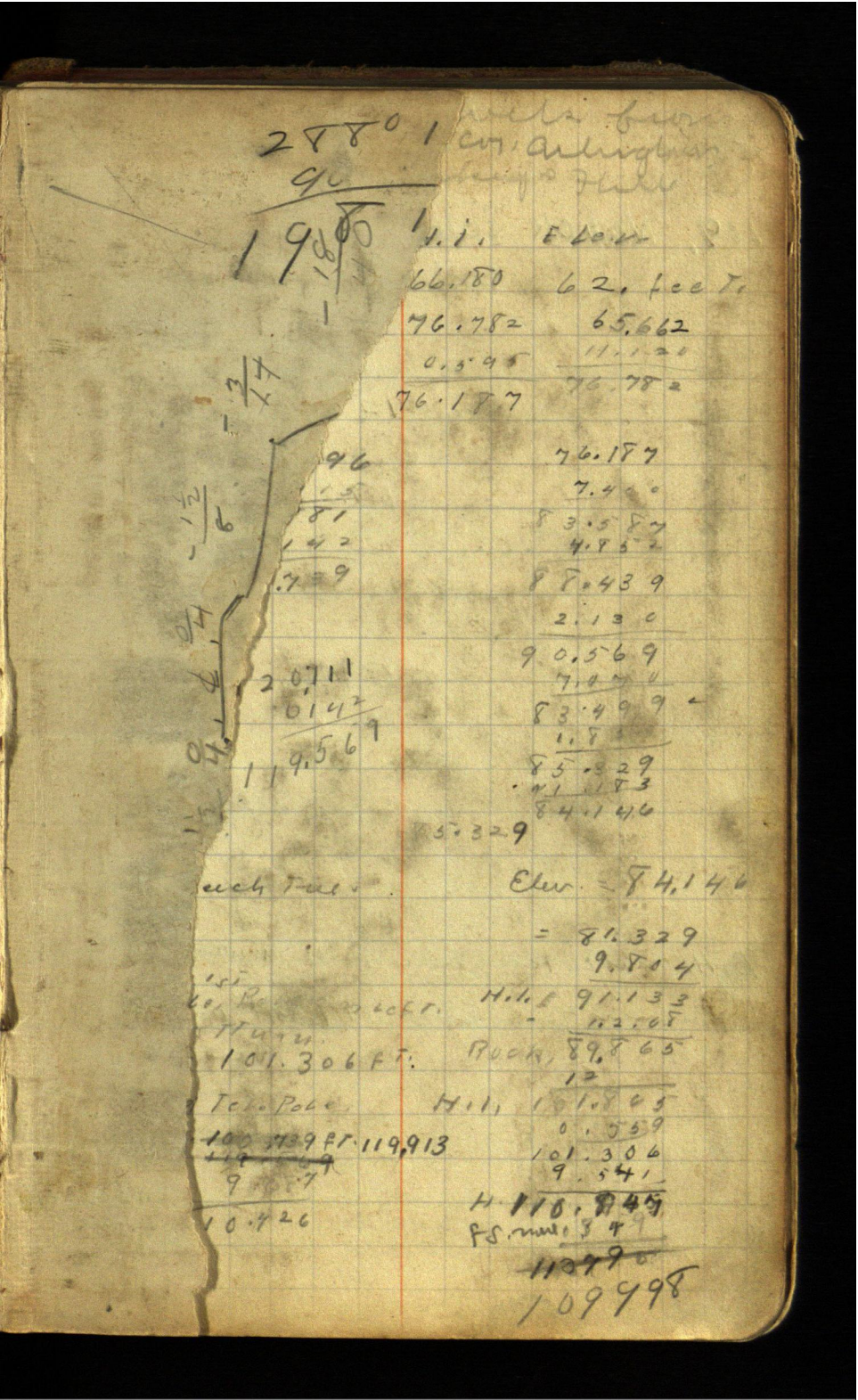
ENGINEERS'

FIELD BOOK

No. 400

L. Macker

SURVEYOR



Distances from Center of Road
Roadway 16 feet wide.
For Single Track En

H	0	.1	.2	.3	.4	.5	
0	8.0	8.1	8.2	8.3	8.4	8.5	8
1	9.0	9.1	9.2	9.3	9.4	9.5	9.
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6
23	31.0	31.1	31.2	31 3	31.4	31.5	31.6
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6
29	37.0	37.1	37.2	57.3	37.4	37.5	37.6
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6

0							
1							
2							
3							
4							
5	13.7	13.8	13.9	14.0	14.1	14.2	14.3
6	14.7	14.8	14.9	15.0	15.1	15.2	15.3
7	15.7	15.8	15.9	16.0	16.1	16.2	16.3
8	16.7	16.8	16.9	17.0	17.1	17.2	17.3
9	17.7	17.8	17.9	18.0	18.1	18.2	18.3
10	18.7	18.8	18.9	19.0	19.1	19.2	19.3
11	19.7	19.8	19.9	20.0	20.1	20.2	20.3
12	20.7	20.8	20.9	21.0	21.1	21.2	21.3
13	21.7	21.8	21.9	22.0	22.1	22.2	22.3
14	22.7	22.8	22.9	23.0	23.1	23.2	23.3
15	23.7	23.8	23.9	24.0	24.1	24.2	24.3
16	24.7	24.8	24.9	25.0	25.1	25.2	25.3
17	25.7	25.8	25.9	26.0	26.1	26.2	26.3
18	26.7	26.8	26.9	27.0	27.1	27.2	27.3
19	27.7	27.8	27.9	28.0	28.1	28.2	28.3
20	28.7	28.8	28.9	29.0	29.1	29.2	29.3
21	29.7	29.8	29.9	30.0	30.1	30.2	30.3
22	30.7	30.8	30.9	31.0	31.1	31.2	31.3
23	31.7	31.8	31.9	32.0	32.1	32.2	32.3
24	32.7	32.8	32.9	33.0	33.1	33.2	33.3
25	33.7	33.8	33.9	34.0	34.1	34.2	34.3
26	34.7	34.8	34.9	35.0	35.1	35.2	35.3
27	35.7	35.8	35.9	36.0	36.1	36.2	36.3
28	36.7	36.8	36.9	37.0	37.1	37.2	37.3
29	37.7	37.8	37.9	38.0	38.1	38.2	38.3
30	38.7	38.8	38.9	39.0	39.1	39.2	39.3
31	39.7	39.8	39.9	40.0	40.1	40.2	40.3
32	40.7	40.8	40.9	41.0	41.1	41.2	41.3
33	41.7	41.8	41.9	42.0	42.1	42.2	42.3
34	42.7	42.8	42.9	43.0	43.1	43.2	43.3
35	43.7	43.8	43.9	44.0	44.1	44.2	44.3
36	44.7	44.8	44.9	45.0	45.1	45.2	45.3
37	45.7	45.8	45.9	46.0	46.1	46.2	46.3
38	46.7	46.8	46.9	47.0	47.1	47.2	47.3
39	47.7	47.8	47.9	48.0	48.1	48.2	48.3
40	48.7	48.8	48.9	49.0	49.1	49.2	49.3

Example—If point is 22.6 ft. above grade, how far should it be from c to be a slope stake point. Ans. from Table 30.6. For same slopes but oth of roadbed, correct above figures by one-half difference in width of roadbe example above, for 20 ft. roadbed distance will be 30.6+(20—16)÷2 or 2 ft 30.6 =32.6. For slopes of 1 on 1½ see inside of back cover.

U.S.C. & G.S. Bench Mark No. 1 on
Court Co. Courthouse Flat

B.M. B.S. F.S. H.i. Elev.

4.18 1.578 66.180 62. Fee Tr.

109.998
9.915
F.Le. 119.913

76.782 65.662
0.395 11.120
76.187 76.782

~~97.976~~ 110.796
9.915
100.881
0.142
100.739

76.187
7.400
83.587
4.858
88.439
2.130
90.569
7.400
83.169
1.840
85.329
.183
84.146

120.711
6.147
114.564

85.329

B.M. in Beech Tree.

Elev. = 84.146

= 81.329
9.804

B.M. Tel. Pole, [illegible] Left. H.I. 91.133
of West Fork. 1.268
Elev. = 101.306 Ft. Rock, 89.865
12
H.I. 101.865
0.559
101.306
9.541

B.M. 2nd Tel. Pole. H.I. 110.845
E.L.S. 100.739 Ft. 119.913 FS. mid. 3.7
9 7
H.I. 110.426 ~~113.626~~
109.998

Index.

Page

Sta.

109. Nauck Subdivision

B.M. Nail in telephone pole, N.W. cor. Dennis Yard. Elev. 117.32 Datum Sea Level.

Sunday, Nov. 16, 1919

B.M. in N.E. Elev. = 152.655

B.M. S.E. Column Lynnville = 158.331

Revised Corrected Elev. of B.M's.

B.M. in Beech tree, west side of Mackey road 100 ft north of intersection with Cherry dale road. (Nail) Elev. = 84.146 ft.

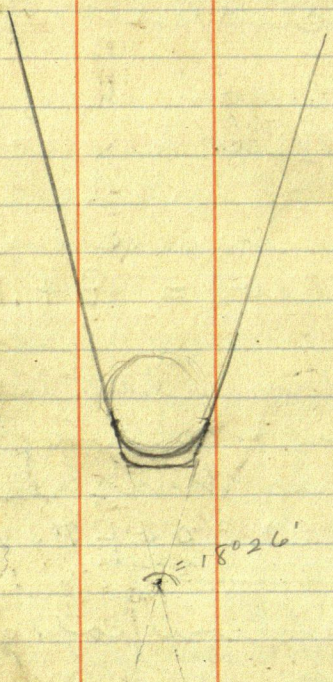
B.M. nail in telephone pole no 1 on left side of road ascending Mackey hill Elev. = 101.306 ft.

B.M. 3rd telephone pole on right of Mackey road (Nail) Elevation = 119.913.

B.M. Telephone pole N.W. cor. Turner House. Elev. 117.322

B.M. in cherry tree lot 5. Bailys. Elev. 152.655 ft.

0°0'0"



113

B.M.	B.S.	H.I.	F.S.	117,322
	4.009	121,331	3.801	118,530
	3.568	122,098	1.281	121.817

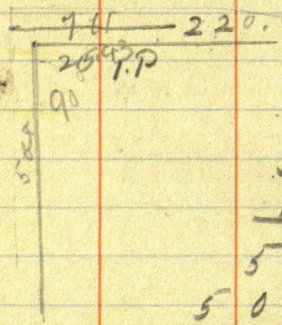
57,40
5,21
5740
11480
29200
304,2840

313°30
90°
223 30

209
90
179

15

S.E Cor of Lot 11,
5 FT. west of Cross mark
on sidewalk.



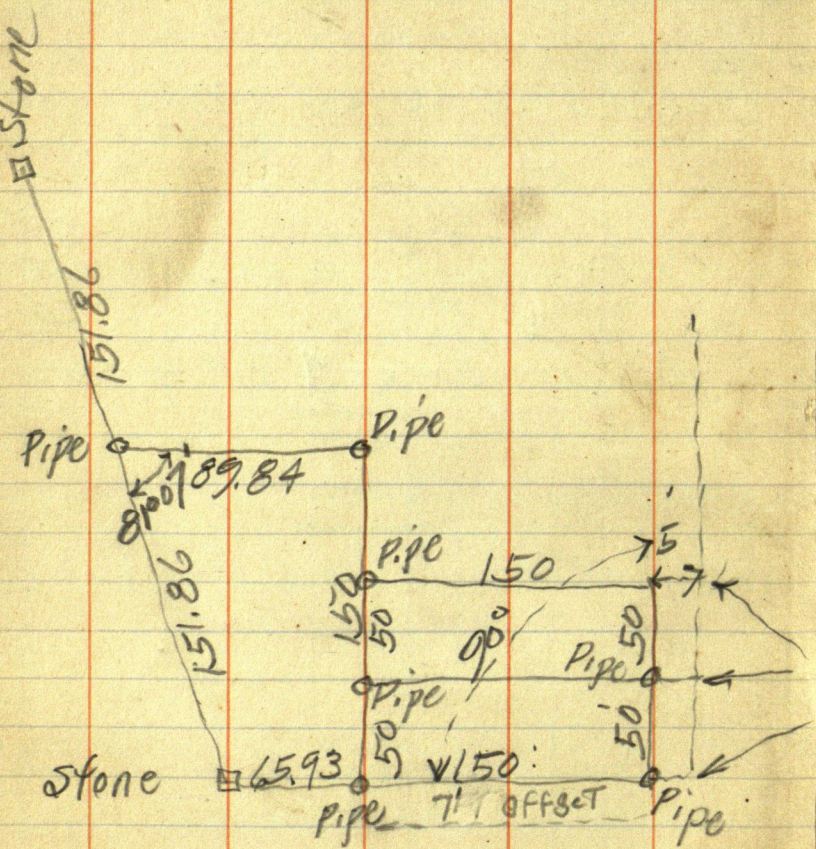
5-0
11
5-0
5-0
5-5-0
59.3
609.3

Drill hole in South end of Concrete walk

Drill hole in stone at N.E. cor. Guard house and drive shaft. Elev. = 20.93 ft on a 7 ft offset line

Drill hole 90 ft N of ~~S~~ [illegible]

150
65.93
215.93



Cross mark cut in cement sidewalk

9-11

67.60 TO 20' Line
from W.H.O.D. Power
house S.W. Cor.

Sta	B.S.	H.I.	F.S.	Elev.	Remarks
				110.094	
B.M.	3.742	103.462	3.542		
				99.920	
	3.394	103.320	4.642	96.638	
	4.192	100.830	3.249	97.581	
	6.222	103.863	3.742	99.961	

103.863
99.961
3.902

145.90
141.35
4.55

114°34'
90
204.34

36°01
90°
126°01

13307
455
12852

19½
3
57

azimuth 102°7'

20
19
180
20
360
3

60)

98

24838

30838

96

21830

1007.97

107.03

215

2 | 1007'30''

.01949

.00017

.0196300000 | .025265

.77696 | 15539 2

.409070

.347470

.206100

.155392

.050708

.046176

.004532

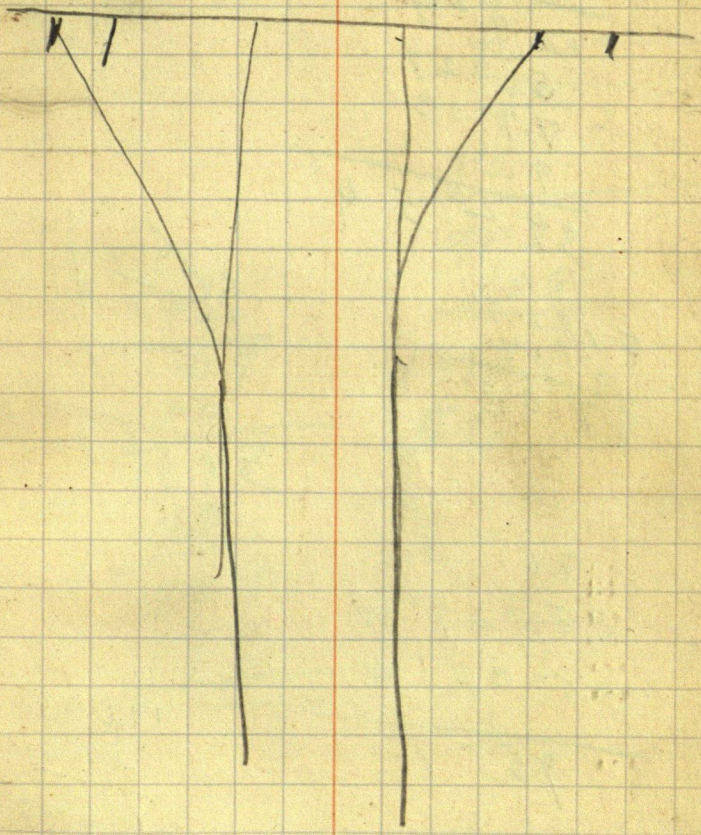
13

601.33 D'

240.
168.
72.
36.
20.
35
24
585 1

100
23
77

47 30 - 14



10

84°24'
45'
129°24'
36°27
F7°03
90°
342°54'

81°27
45'
36°27

90°
F4°24
5°36

129°24'
104°09
36°27
90
359°60

F1°27
S-034
87°03

FO 60
SF1°27'W
S5°36'W
7951

19.645
30.41
19645
117870
589350
6013345

2) 39.29
19.645

90
81.027
8 33
90

98033
536
10909
56

32
42
64
128
1344
24) 1209
144
144

17

S 26° W	1827.705	To. North side of Road.
N 54 1/2° W	510. 18	

1006 - 26TH. ST. N.W.

18

Thomas Circle

Mt. Vernon Ave to Alexandria

Floor Horse

Thomas Circle - Pond & Fountain

Beginning from a temp. point for N.E. Cor. to Tract Thence S 26½° W on a random line.

409' intersect pcc.

T 19470 to pcc.

T 28 00 = center line = Mt. Monongahela.

January 29, 1920

Beginning at one inch iron pipe on the right bank of "four mile creek" which is the n.e. corner to a tract of land belonging at present to John Nelson, formerly known as the "Poor House Farm".

From this corner a white oak 16" in dia. bears south 53½° East 24 ft thence from this corner south 28° 26' west

Sta. 1

2

3

4

4+06.77 intersect tack in peg set by county surveyor

5

6

7

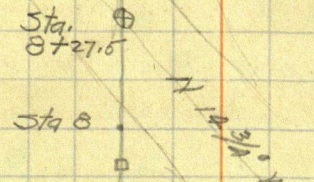
8

8+27.50 ℄ of M.V. Ave bears N 14 ¾° East

9

10

11


Sta.
8+27.6
Sta 8

25

2.94
16.5

1470
1764
294

48.510

281.30
269.70

550.00

Jan. 30, 1920.

16

16+ 82.30

1.80

16+86.10 set an iron pipe, this pipe is 7.5' from face of ~~center~~ ~~[illegible]~~ pavement

Thence from this pipe E Traverse Road as follows.

N 46°-00'-W 269.7' To a Pt.

0+25.00 To center of Russell Road Cos. N 2°-26'-E

~~N 46°-00'-W~~

N 6°-5°-53'-W 281.30' To pipe which is S.W. Cor. Tr. Tract.

Thence from this point N 2°-26'-E on a true 600 ft. R.

Jan. 31 ST. Too Cold for field.

Feb. 1 ST

27

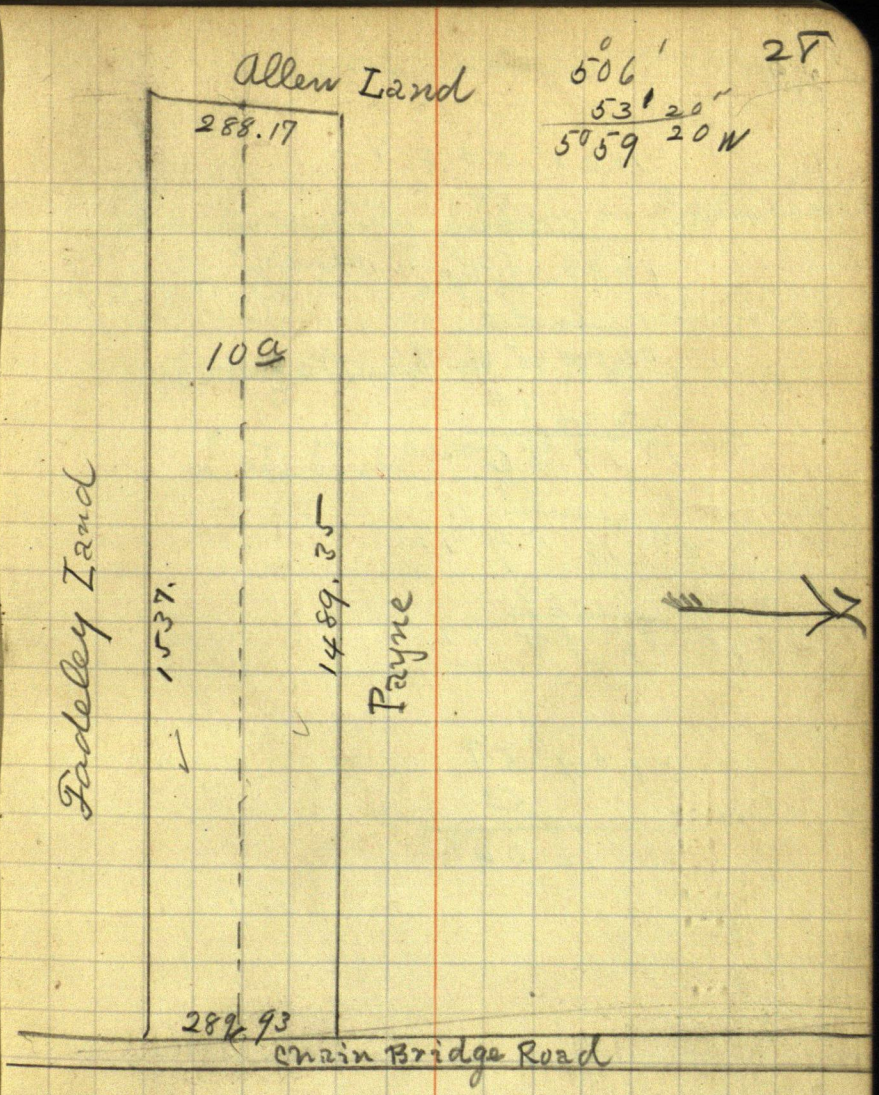
		N	S.	E.	W.
S 89° E	1,52		1,52		
N 73 1/4 E	1.10		1.05		
S 57 1/2 E	2.20		1.855		
S 85 1/2 E	1.45		1.45		
S 65 1/2° E	2.16		1.96		
			8.735		
			66		
			48710		
			48710		
			536.91	0	

$\wedge$ 5 779
2100
5 779 00
1,1755
1234,3590 0

2604
74
150
29 0041

90
60
2 { 4206
2100

36 0



$5^{\circ}06'$
$53'20''$
$5^{\circ}59\ 20$ W

27

29

$$10^{\circ}20'53'' = 7$$

$$59$$

$$10^{\circ}19'54'' = 8$$

$$59$$

$$10^{\circ}18'55'' = 9$$

$$59$$

$$10^{\circ}17'56'' = 10$$

$$59$$

$$10^{\circ}16'57'' = 11$$

$$59$$

$$10^{\circ}15'58'' = 12$$

$$10^{\circ}16'57''$$

$$53$$

$$10^{\circ}16'.041$$

4009
3991
8000

Declination given in Ephemeris
is for 7 a.m. at Wash,

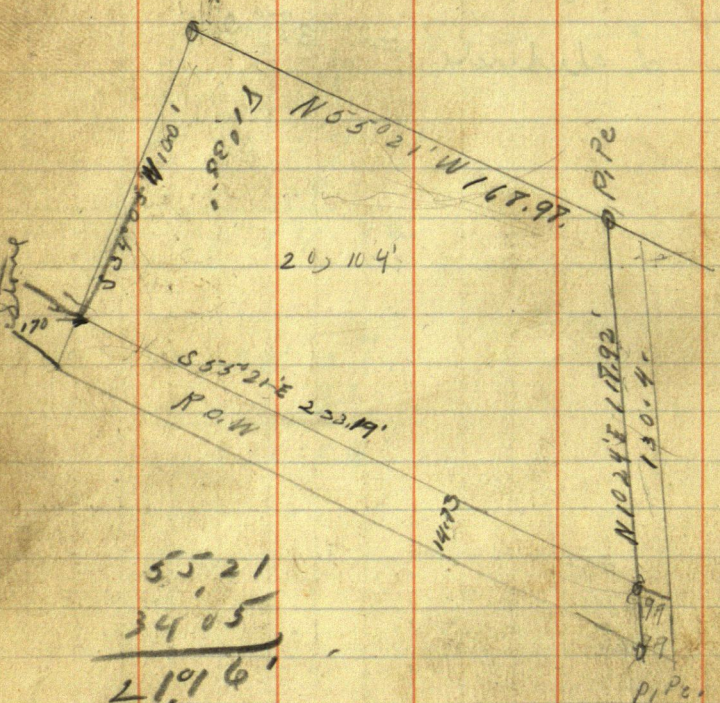
Longitude = 77° W.

Latitude = 38° 04'

31

B.M.	H.I.	Grade	R.L.
	131.7	14.7	179.00
		15.3	210.16
			194.86

Recorded in D.B. 147. P 517.



55.21
34.05
21.16'

Beginning at an iron Pipe in the East side of a 14.7' Rig'ht of way, bearing S 35°21E 170.3' and N 34°05'E 17.3' from a set stone marking the original N.W cor. of said tract.

130.4 35°21'
17.3
1131 89°60
35°21'
3429

89°60
1024
88°36'
34029
123'05

Sin
.02443
117.92
04886
21987
19544
02443
02443
2.905215 6

Cos'
130.4
14.7
.99970 115.70
115.92
0

33

232.8

110,052,
4.22
105,83 = a.

BM. 100.
10.052
4.1: 110.052
4.650
105.402
100
05.402.

F.c.:
10.052

a = 422

6.1 = 405

110.05
4.05
106.00

110,052
103,05
7.002 = a.

110,05 2
103 35
6,50

8 19 9 1/2.
2

10 6.00
10 3.55
2.45

100
21
79

232.8
101
131.8
21.5
153.3

.23258) 0.40200(.02 32
46516
74600
69774
4768
4656

100
02.3200

232
153
79

131.8
Rate = 82.3 %
2636
3954
2636
1053.3
.0232
3066
47399
30660
3.055776

105.73
103.05 = a
2.68
103.35 = b

Cut. A

a = Cut 2 ft. 9 1/2"

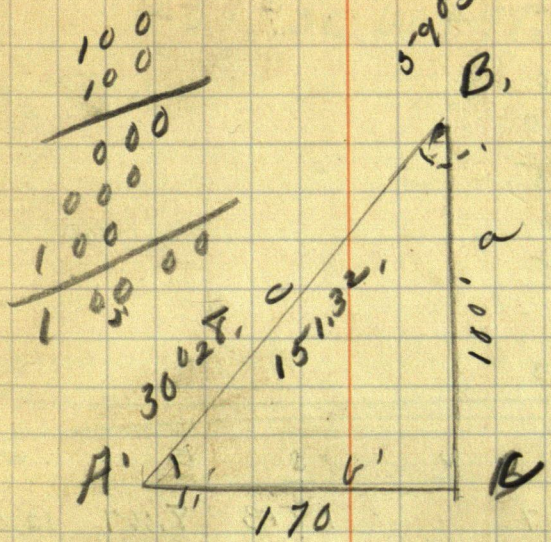
b = Cut 2 ft 6"

	N.	S	E	W.
a				
b.				
c				
d.				

170
170

000

1190
170
---
2 F 9 0 0
10,000
---
3 F, 9 0 0



100
100
000
000
000
10000
1700
3000

170) 100,000.00 (588.23
850
1500
1360
1400
1360
400

37

		N.	S.	E.	W.
S 79° E	1,82				
N 73 1/4 E	1,10				
S 57 1/2 E	2,20				
S 75 1/2 E	1,45				
S 65 1/2° E	2,16.				
S 29° 23' W	25,55				
- - - -	- - - -				
N 28° 19' E	22,03.				

		N	S	E	W.
S 77° 20' E	8,27		1,813	8,067	12,536
S 29° 23 W	25,55		22,263		
N - - - -					
N 28° 19' E	22,03.	19,393		10,449	
		19,393	24,076	18,516	12,536
N 57° 56' W	7,56	466			5,95
	66	24053			18,48
	45,36	2			3,
	43,26				
	498,96				

Length of So. Bdy. is
N 51° 56' W 498.96'

39

130) 118.90 (.89
1040
1190
1170
20.

110.
.89
900
800
89.00

34°29'
90°
124°29'
34°05'
158°34'

10.0
89
11.

53°02'
1024
36 45

$$\begin{array}{r} 18^{\circ}34' \\ 123^{\circ}05' \\ 56^{\circ}45' \\ \hline 337\ 24 \end{array}$$

$$\begin{array}{r} 168 \\ 12 \\ \hline 336 \\ 168 \\ \hline 2016 \end{array}$$

41

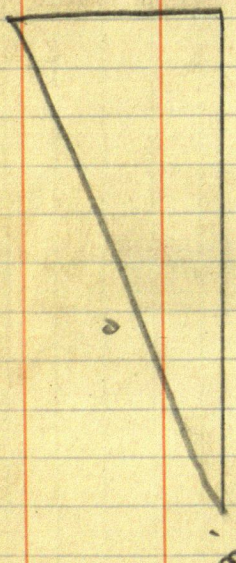
	N.	S	E	W.
	[redacted]		2,905	
	118.88			

49

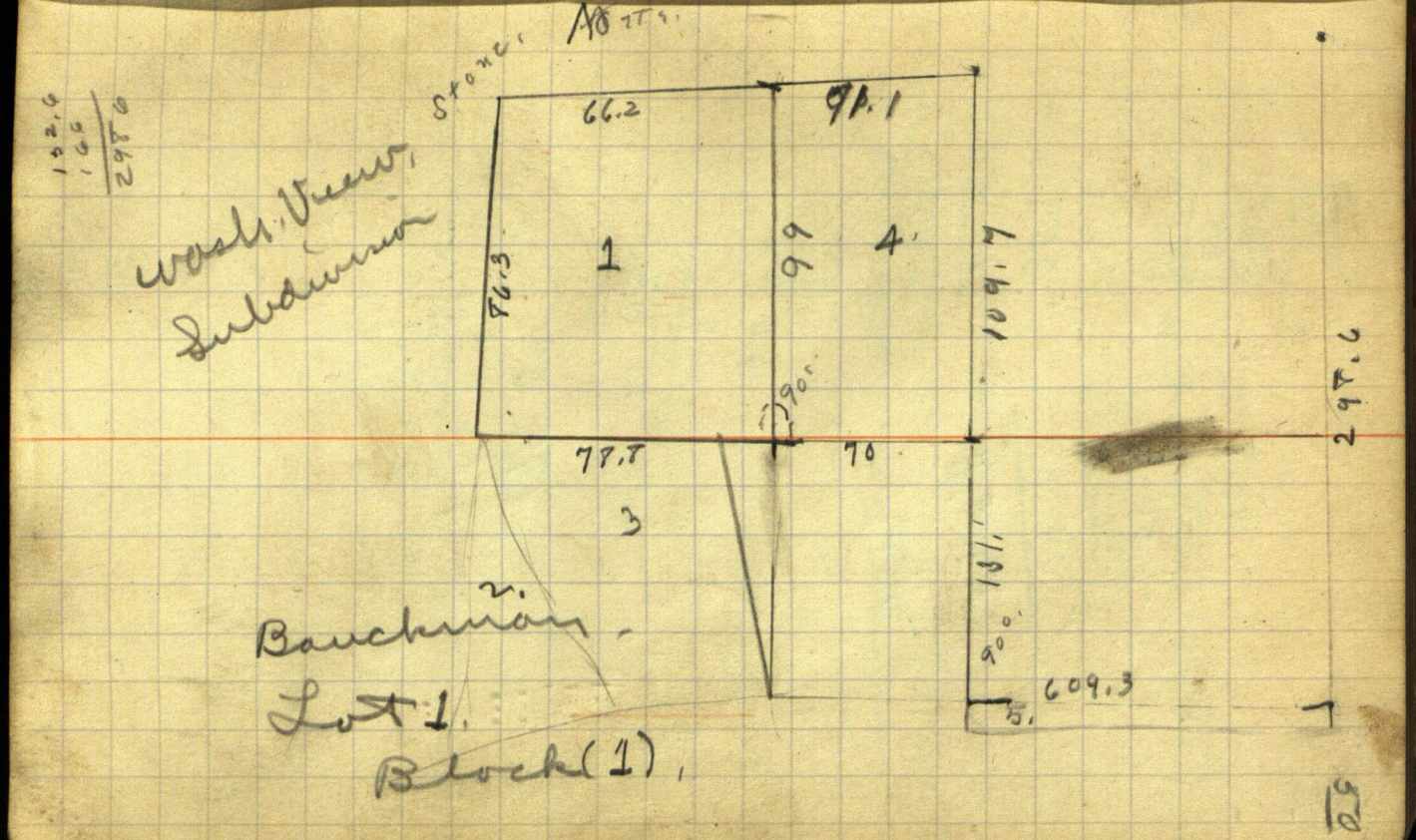
2,75
2,25
1375
55
5500
6,1875

54035
5725
90000

2,75 LKSI
66) 182,00
132
500
462
380
330
50



2,75
1,25
1375
550
275
2,4375


Stone.
66.2
91.1
Wash. Views
Subdivision
1
4.
96.3
99
109.7
90°.
78.8
70
3
2.
Bauchman -
Lot 1.
Block (1).
90°.
131.
609.3
5.
297.6
102.6
100
297.6
126

57

93,7
50
50,8
50,3
53,6

297,5

73-0

50
17

350
50

73-0

35960
15606

20354

66°06'
90

15'606

179 60
15606

2354

990
97.1
1.9

86.3) 78.80000 (.91425
7967
1230
863
3670
3452
2180
1726
4540

91
50) 9.00 (.18
50
400

.18
50
9.00

.18
70
12.60

109.7
12.6
97.1

5-3

6)200
33⅓
5247

33⅓
1

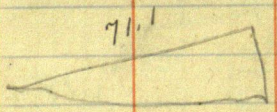
99
17
82

64021
6252
12713
17940
12713
5247

71.1
71.1
711
71
4977
505521

10.7
10.7
749
1070
1449

70



505521
14449
499072
4900

7

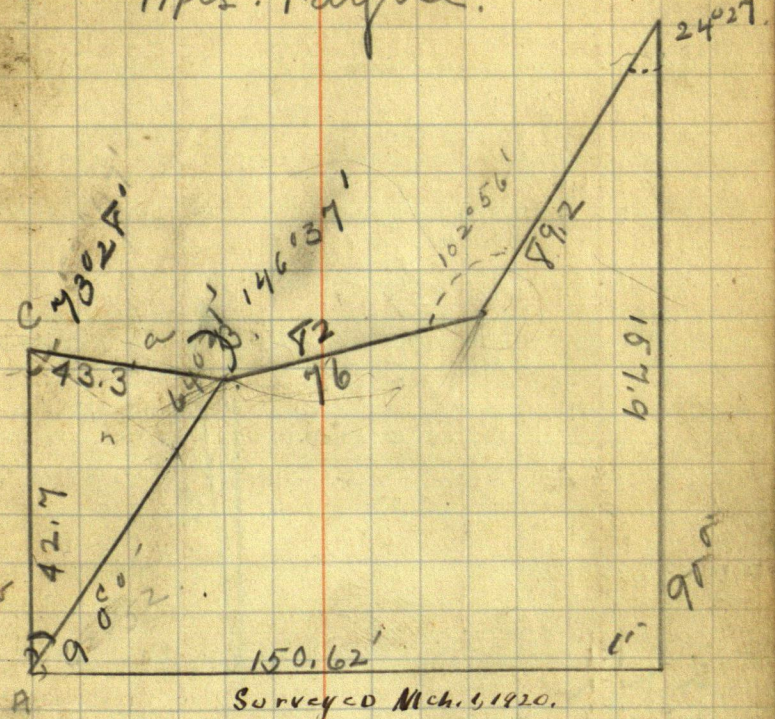
70
70
4900

74003
62034
11969

499072
4900
494172

Lot 1 Block 10. 54.

Mrs. Payne.

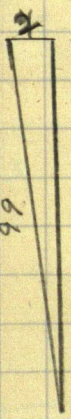


52°47
24°27
77°14'

711
711
4977
505521
11449
494072

55

27,5
39,7
67,2


2
99

Year Book.

57

Feb. 21, 1920	Lots. 18 & 19 Block 2 Ft Myers Heights.	12.50
	000 jobs for Crystal Mackey	5.00
March 2 St.	Lot 2 Block 20 Ft. Myers Heights.	10.00
March 5, 20.	Lot 1. Block 1. " "	12,00
" 27	Herbert Marcy	12,00

Calvin Pfundt,

Fosby, 145 F. St.

5 x 2 = 10.

2.75
7.75

2 3/4

2
2 1/2
1

4/4
3

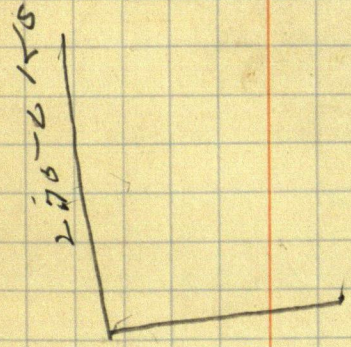
5 F

True Meridian.

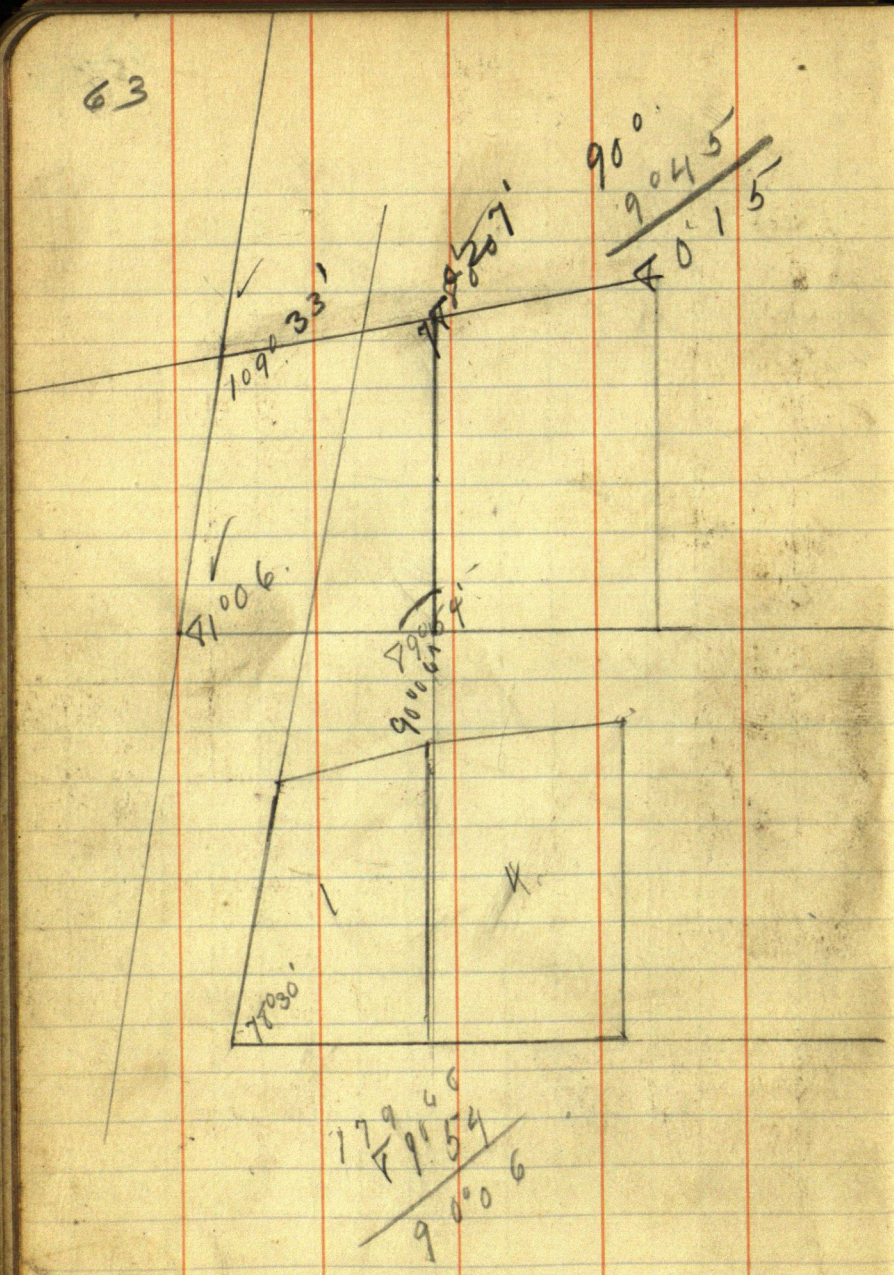
South West corner of yellow house.
north side potomac river. bears.
E N 25°27' W.

$\frac{2}{5}$

$\frac{110'}{5}$



63

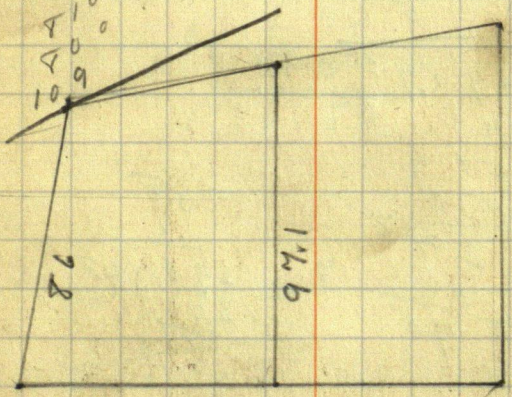


35°9'60
28'03 3
78°27

81°06'
80°
10 90'
90°
360°06'

15
Y
120

89°54
81°06
80°
10 9



179°60
9 45
170°15

360°80'
78°47'
69002
945

89°54
10 90 3
81°06
28°48'3-3

66

Longitude - 77° West.

15) 77° (5 hrs.
75
2

58, 29"
5
60) 291.45 (4.85
240
514
480
345
300
45

.58
5
60) 290.0 (4.8
240
500

4' 47"

$5^{\circ}16'34''$

$4'48$

$5^{\circ}11'46'' = \text{decl.}$

$5'5$

$5^{\circ}12'41'' = \text{declination noon.}$

$5^{-0}11'46'$

50

$5^{-0}16'56'$

$5^{-0}16'34'' = 7$

$5'5$

$5\ 15'46 = 8$

$5'5$

$5\ 14\ 98 = 9$

$5'5$

$5\ 13\ 50 = 10$

$5'5$

$5\ 12\ 52 = 11$

$5'5$

$5\ 11\ 54 = 12$

$5'5$

$5\ 10\ 56 = 12$

$$9^{\circ}\,11'\,13'' + 11'\,13'' = 101^{\circ}\,13'$$

$$50 \overline{)\,200} \quad 4$$
$$200$$

$$81^{\circ}\,13'\,E$$

$$699.6 - 78.8 = 774.4$$

$$004$$

$$3136$$

$$3100$$

$$00$$

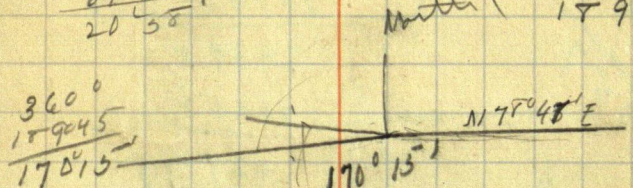
$$3136$$

78°47'
1 15
78°32'

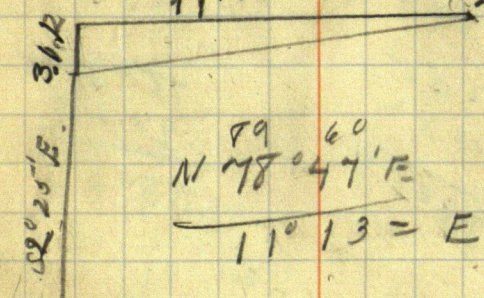
179 60
168°47'
11°13'

78°47'
90°
168°47'
20°58'
179 45

360°
179°45'
170°15'



78°47' 78°47' W
0°15'



179 60
N 78°47' E
11°13 = E.

179 60
11 13
78 47

78°47'
90
168°47

59

77.4) 3.1100000 (.039953

23352

77480

70056

74340

70056

42840

39926

2914

77.47
.15
77.32

180 3
9903
705-7

906
6902
2005-8

1025
77.32
79057

77.32
2025
79057

7906
77.32
1128
1135
8703
99

69402
11013
80015

99
70

6930
374
7304

109.7
99
2 | 10.7
5.3
77
53
371
3763

90°
49.53,

99.
.02
198

109.7
.05
5.485

6930
198
7128

104

6930
3.4
6954
371
7325

5.3
70
371.0

99) 20000 (202
198
200

71

7.02
7.02
1404
4914
49.2804

7.025
7.025
35125
14050
49175
493.50625

7.03
7.03
2109
4921 0
49.4209

80.15
10.033
79.57
26945

359.60
269.45
90.15

110.77
16.5

55385
66462
110770

1827.705

1827.705

78
---
7 | 49.40.72
49

04072

109'23
79 54

189053
3 9 40
---
27 53

8107

73

78°32'
1025'
79°57'

78°32'
1025'
79°57'

11°28' West

78°32'
90°
168°32'

179°60'
168°32'
11°28'

78°15'
11°28'
78°47'

90°
11°28'
78°32'

89°60'
78°47'
11°13'

90°
102°5'
78°32'
204°37'
109°33'

92°25'
204°37'
113°23'

91°25'
204°37'
112°23'

179°60'
90°03'
89°57'

78°35'
11°28'
100°03'

180°
100°03'
79°57'

90° 7F 32 1102 1'

89°15 7F°47 1120'

89°45 1°02 88°32 0°42 1084'

359°6 1°04 3 250°27'

92°25' 20°3 1 27

3°23'

109°33'

S69°02'W. 66.2.

TO 31'

N20°25'E 76.3

79°57'

99

89°58'

S77°32'W. 78.7.

Sum of angles

109°33
79°57
90°15
269°45'

179°60
26

109°33
90°15
89°15
90°57
359°60

359°60
270°45
89°15

75

109°33
89°53
79°57
279 D.3'

193
60
13

60) 193'
2023

359°60
279 23'
80°37
109°33
89°53
79°57
360°0

77

altitude = 46°35'

azimuth = 46°35' 34°36'

89°60'
46°35'
43°25'
16
43° 41'
1016'
42025'

90°
38 54
51°06'

1.005284

$$90^{\circ}\,0'\,16''$$

$$91^{\circ}\,16' = D'$$

$$43^{\circ}\,41' = a$$

$$51^{\circ}\,06' = 1$$

$$2\overline{)176^{\circ}\,03'}$$

$$93^{\circ}\,01'\,30'' = S.$$

$$91^{\circ}\,16'$$

$$1^{\circ}\,45'\,30 = S - D,$$

$$.03054 = \sin 1^{\circ}\,45'$$

$$1.05234$$

$$.12216$$

$$.09162$$

$$.06108$$

$$.05270$$

$$.00000$$

$$.03054$$

$$.0031394636$$

79

5.36
2.83
8.19

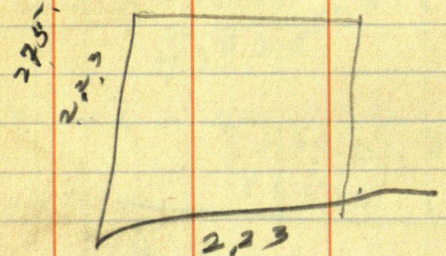
Cellar.
B.M.

100.
8.19
108.19 = H.I.
0.54
99.65

99.65
4.33
103.98
7.76
96.22

2.75
2.23
52

100.00
96.22
3.78



2.23
52
1.71
223
4

VI

Bearing to Howard 6.6012'

E 9

altitude $46^\circ 47'$

ϕ altitude = $38^\circ 56'$

$D = 3^\circ 29' 56''$

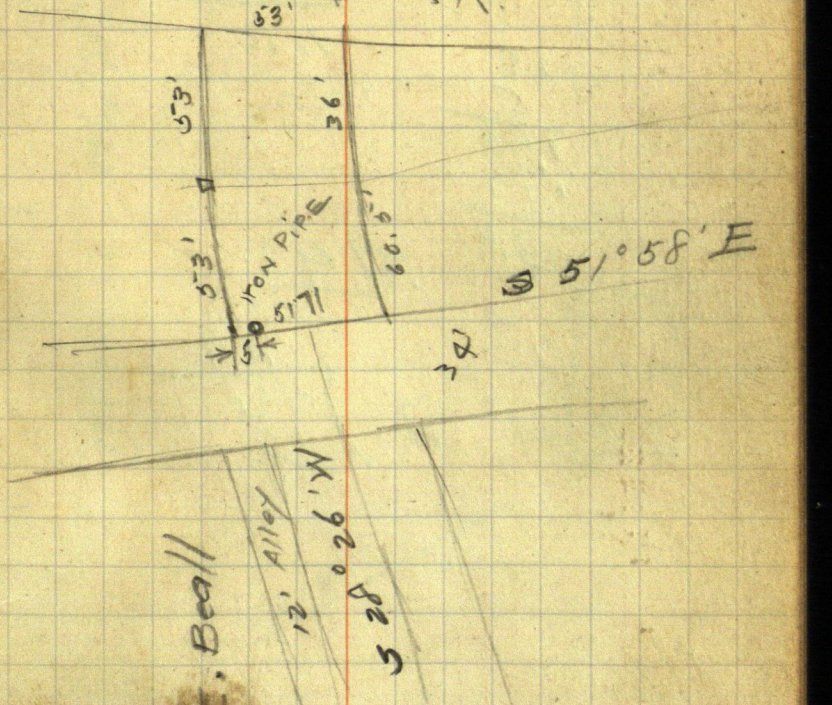
$h = 47^\circ 03'$

$L = 38^\circ 56'$

M.
13
6
175
196

S - 51° 58' E - Bearing of old Mt. Vernon Russel Rd.
S - 28° 26' W =

O. D. R R.



91

72 15.3
212.5
2.03

18
.7

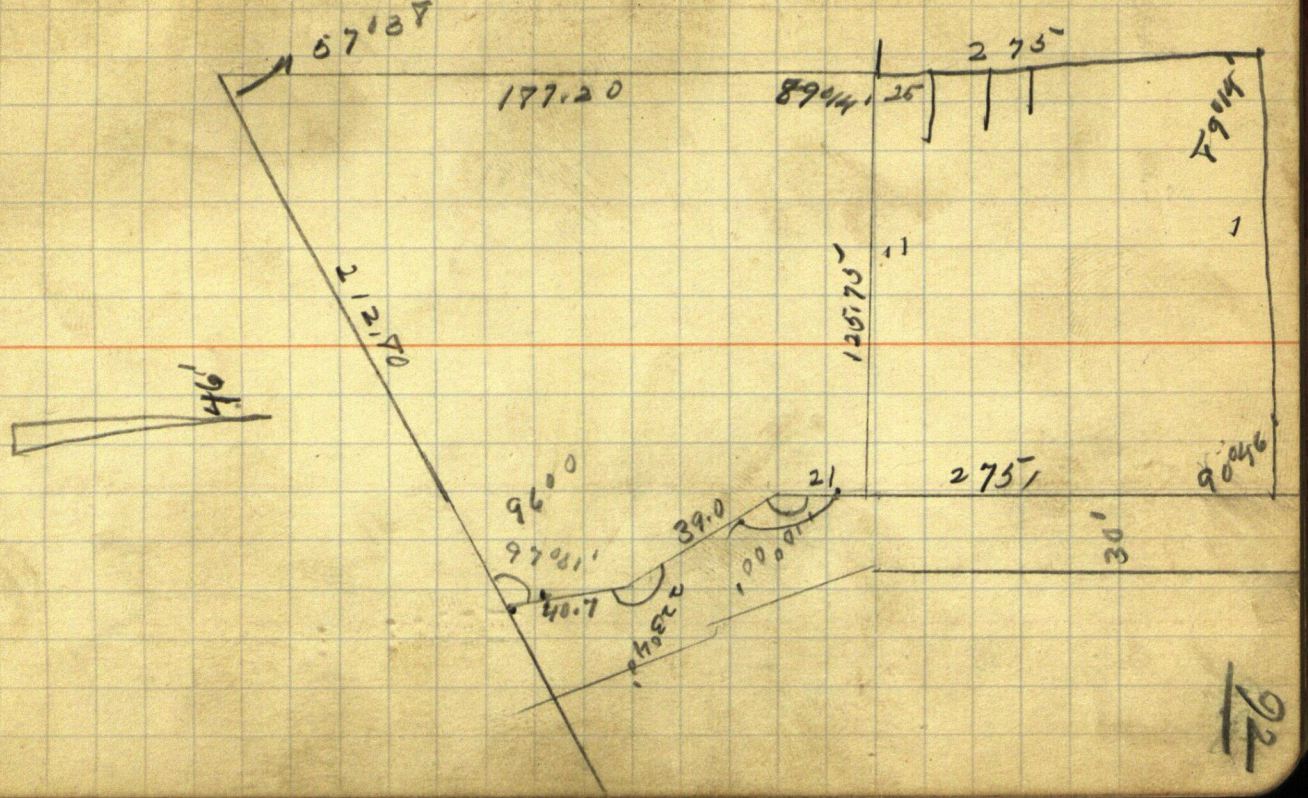
18
1.1
1.1

29
5
1.45
111
3.4

.7) 40.
35
5

.7) 40
35
5

97.001
96
1001


57°18'
187.20
89°44'
25
2 75'
89°44'
1
212.70
46'
125.75'
96°0
96°0
39.0
21
275'
90°0'
30'
40.7
100°0'
25'4"

Property Line

S - 46°17' - E - Haney

10 64½ ft of Pipe. 44 Pipe 18" Long.
West Nauck.
R. H. Coward.

20°06'

South Bdy N 72°47' W

18.75
200.
122.25
441.00

1033.30
22.9
1056.20

N. W. Cor Lot 1. Block 5.

Moves 1.59' N 16°29' W and
14.25' P.A. to Randown

757

66) 170.70 (2.57
132

380
330

500

110

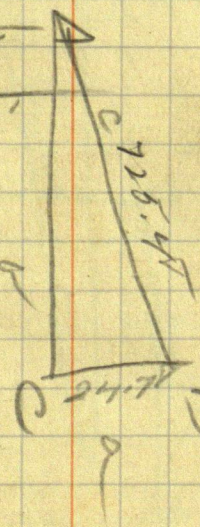
172

94022'

21853
5625

27478
2500

24.78'



111

275

110.95
40.10
100.25
100.25
40.10
100.25
100.25
40.10
100.25
732.50
100.25
632.25

521

20 800
20 100
20 100
20
20
50
15 1056.20 fall 19 ft West of true pt. for Corner
10
10
10
10
10
10
10 100 400
10 100 100
11 100
10 50
10 50
10 50
275
100
100
100
100 32.25
25
15
15
15
715
50
0

725.45) 24.780000 (3 415
2 9 7 6 4 9

3 0 1 5 C0
2 9 0 1 9 2

1 1 3 4 8 0
7 2 5 4 5

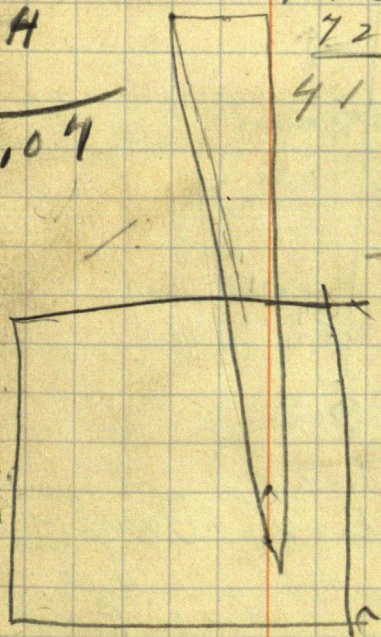
4 1 1 3 2 0

66
1,94

264
594
66

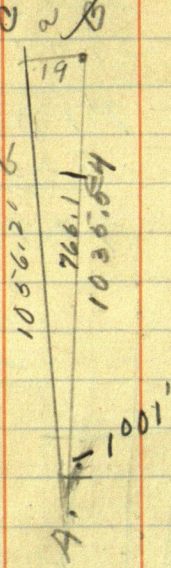
128,04

2 6 5 3
2 4 4
2 6 3 3



113

Jane Baker,
Mrs Mary Norris



Carter L. Taylor,
Theodore Road.

114

257) 5.0000 (194
25 57
2430
2313
1170

7453

150) 99.90000 (66408
900 xx
990
900
900
900
0 0x

237
194
1028
2341 3
237
4978

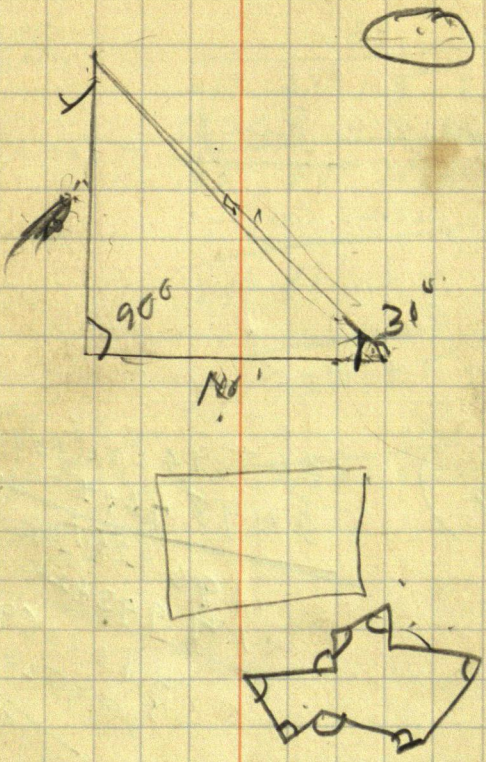
115

N. Council 128.04'
W. " 190'

21 27'

7.50
2
15.10

.73135
.68200
14627000
5850800
4385100
49978.07000


90°
31°

74° 49'

$\text{Cos } A = \frac{\text{Sin } D}{\text{Cos } L \text{ Cos } l} - \text{Tan } L \cdot \text{Tan } A$.

.999707) .368940000000 (.737006
3498 4649
1909351
1499342
4100089
3997456
1014334
999614
14720

615' 4th Dec.

21°36'55" = 615'

23"

47° = Lat.

21° 37° 18" = 715'

6

21° 37° 24" = 730'

12

21° 37' 36" = 800

12

21° 37' 48" = 830.

1.00000647

⇒ 73820.38

1, 26 | 06 09 21° 37' 00" = 900

21°37'

4

21° 39 hrs !!

Begin. at a set stone in the East line of L. B. Corbett land which stone is also the N.W. Corner of the tract purchased by Miss Mary Norris from John D Nafack and wife, and thence Running, S 16°50' E 199. ft. to a set stone 1 foot due south of a Hickory tree and in line of tract belonging to Thornton Grey, thence N 73°30' E along Grey's line 673. ft. to a set stone, thence N 5°25' W 182' to a stone in the north line of Norris tract, Thence South 74°35' W 724.' to Beginning. Containing three acres more or less.

Recorded in Liber L #4

P. 314

16°50' W. 66 | 199.0 | 3.01
198
100

301 | 500.00 | 1.66
301
1990
1706
1740

166
66
996
996
10956

3.01 = WBy. = 199'

S Bay = 109.56'

8455
1650
10125

3600
2925
675

150
25125

2) 45960 (1275,12

2 1 7 5 0,0 0

170 | 170

478

340

1380

1360

2000

1700

3000

9402 0'

75 15

19020

15 1

0

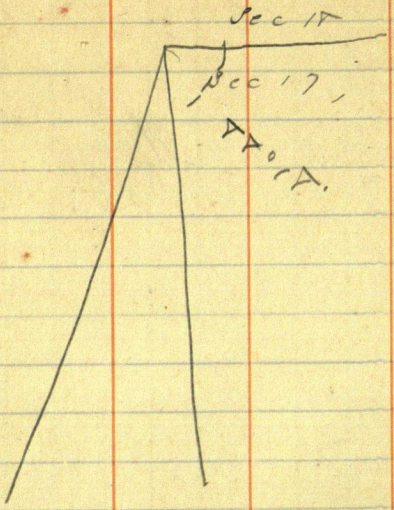
123

Bts. 1/4 cor.

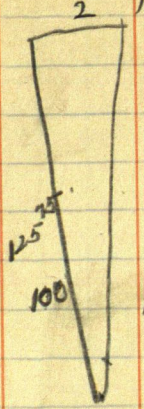
Secs. 17 & 20.

Pine 6" S 20° E 16 Lks.

Jack Pine 6" N 19° E 25 Lks


Sec A
Sec 17
AA°rA.

137



.0116
125.7

0812
0580
0232
0116

1.4597 2.

.01591
125.7) 2.000000
1257

7430
6285

11450
11313

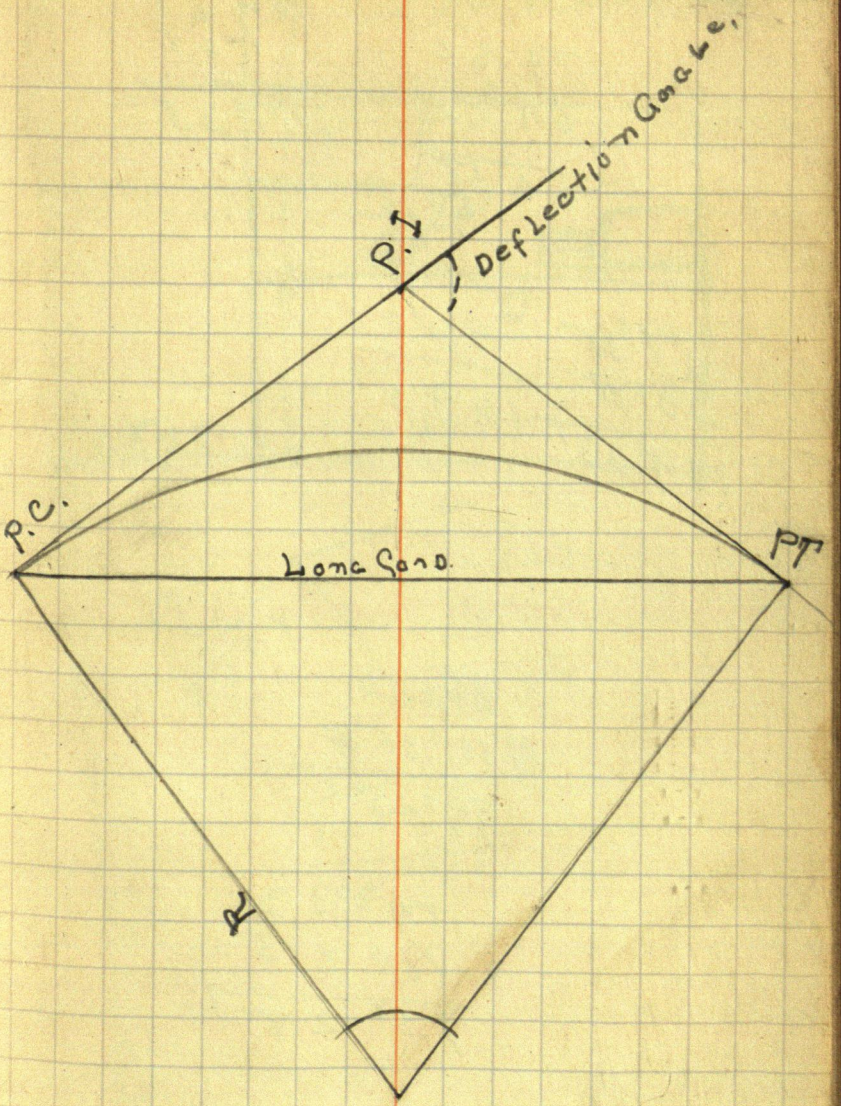
1370

Direct observation Sun for Meridian,

A = Azimuth
d = Declination
h = altitude
L = Latitude

$$\text{Cos. } A = \frac{\text{Sin } d}{\text{Cos } h \cdot \text{Cos } L} - \text{tan } h \cdot \text{tan } L,$$

Give angle from North to Sun.


P.I.
Deflection Angle
P.C.
P.T.
Long Cord
R

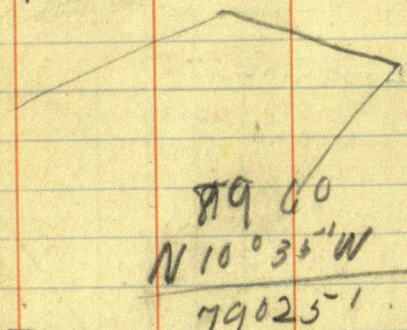
1413

S 9 6 0
69°02
2058

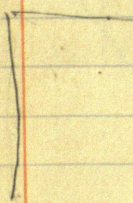
S 9 4 0
1°25'
S 7 7°35' W

96.12
60
43.3
199.5

S 7°35' W
20°58'
109°33'

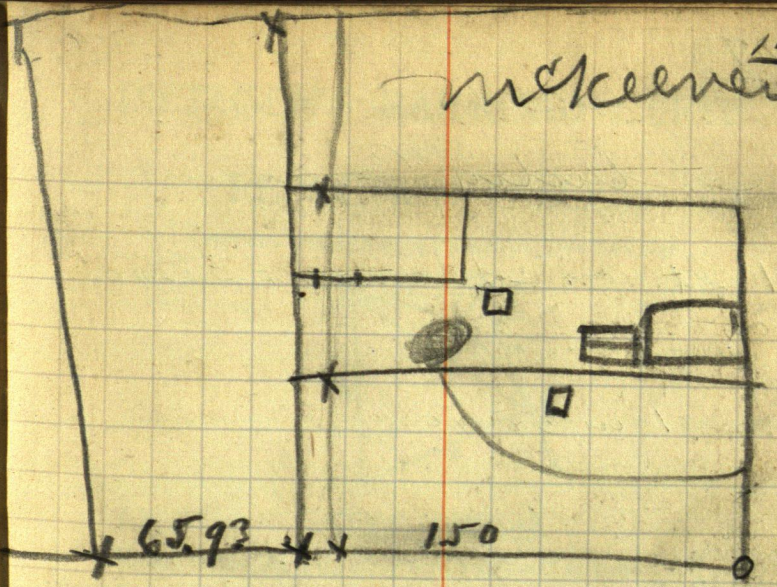


S 9 6 0
N 10°35' W
79°25' W



S 4 0 0 3
1 0 0 3 5'
S 3°28' W

mckeever



180
102 56
77 04

2427
52047
180
257 04

359° 60
257 04
102 56'

Stadia Constant =

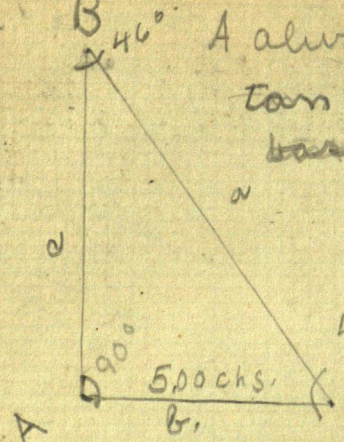
1 ft. on Stadia = 58.40' on ground.

1 in 58.40

40°20'
90°
130 20

214°41
90
304 41

Solution of Right tri. △



A always = 90°.

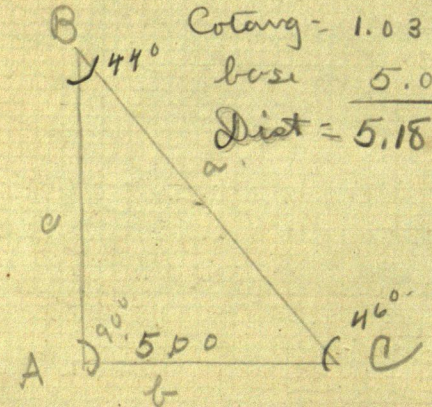
tan = 1.036

base 5.00

5.180 00 ans

Given C and b. to find c.

$c = b \times \tan C.$



Cotang = 1.036

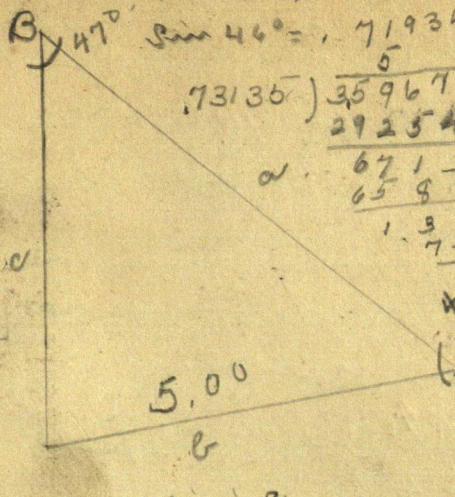
base 5.00 chs

Dist = 5.18 10 chs. ans

Given B and b to find c,

$c = \text{Cotan}_1 B \times b.$

Solution of oblique Triangle

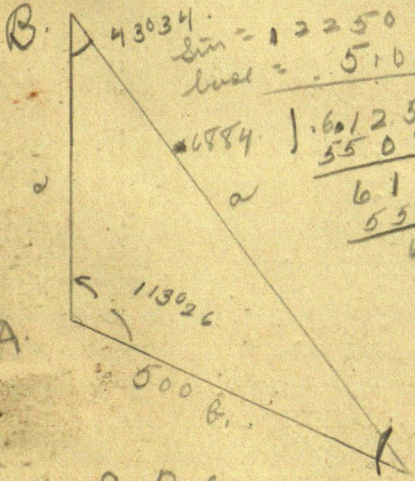


Sin 46° = .71934

.73135) 35967000 (4.91 ans
2925 40
671 300
658 215
13085
73135
46 57715

C and b to find c.

$\frac{\sin B.}{\sin C.} = \frac{b}{c}$



Sin = 1 2250
Sin = .5100

.6884) 1.6125 6.00 (8.819 ans
55072
61780
55072
6708 80
61906
5124

Given C. B. b.

Sought. c.

$c = \frac{\sin C \times b}{\sin B}$. As $\frac{B}{C}$ as $\frac{b}{c}$,

To find rate of grade.
Divide differnce in elev
by dist bet points of
elev.

To find grade.
Multiply length by
Rate, add or sub[illegible] from/to
[illegible] of elevation

1:8 53' & 1:33 57
1:56 50 26
224.79 E

.00399
.0037
.41