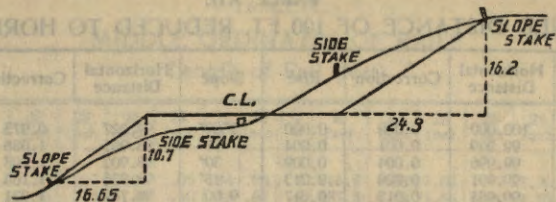


MISC. NOTES
Book A

CCC # 95

found 1/17/92



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.25	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

Level notes on Big fill
Big Lake Camp.

Page

1

2

3

Traverse Notes, Big Lake Camp
from 1/4 cor. betw. Sd's 19-30
T 147 N. R. 30 W.

6

Orientation of Grattan L.O. Tower?

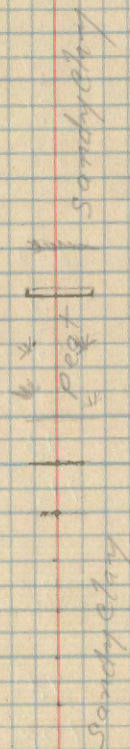
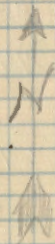
Check on Orientation Map
with Azimuths on New Map

4

Notes on Fill
Big Lake Camp.

- 13+00 Start of rise
- 11+50 Place Culvert 3'x3'
- 10+00 Bottom of Low swain.
- 9+00 Sharp drop off.
- 8+00 Top of hill

0+00 1/4 cor. betw. Secs 1-2 T147R31
Post in place Birch 7" S89°W. 32ft.



x 1/2 year.

Level Notes on 11/17
 by J.A. Gjelhaug 11/17/94 Big Lake camp, 2
 B.M. Sta. 2+75 - 36' Lt. Naikin 12" Aspen

Sta	+	H.I	-	Elev
B.M.	4.85	104.85		100.00
0+00			9.4	95.5
1+00			9.1	95.8
2			7.3	97.6
3			5.3	99.6
4			5.9	99.5
5			5.1	99.8 ✓
6			7.2	97.7 ✓
T.P.	2.62	100.42 ✓	7.05	97.80 ✓
7			5.3	95.1 ✓
8			5.9	94.5 ✓
8+50			10.1	90.3 ✓
T.P.	0.14	88.44 ✓	12.12	88.30 ✓
9			4.5	83.9 ✓
9+25			11.2	77.2 ✓
T.P.	0.24	76.29 ✓	12.39	76.95 ✓
9+50			8.5	67.8 ✓
T.P.	0.11	64.16 ✓	12.24	64.05 ✓
9+70			7.0	57.1
9+80			10.2	59.0 ✓
10+00			12.5	51.7 ✓
11			14.2	50.0 ✓
12			14.5	49.7 ✓
13			11.3	52.9 ✓
13+25			4.2	60.0 ✓
	7.96		43.80	

Sta.	+	H.I.	-	ENV.
B.M.		64.16	11.86	52.30
T.P.	12.39	76.39	0.16	64.00
13+50			9.0	67.4
13+75			2.5	73.9
T.P.	12.50	88.69	0.20	76.19
14+00			6.1	82.6
T.P.	12.24	100.83	0.10	88.59
14+25			11.5	89.3
T.P.	7.25	107.58	0.50	100.33
15+00			5.8	101.8
16			4.2	103.4
16+25			5.4	102.2
16+50			4.7	102.9
17			7.1	100.5
18+00			3.6	104.0
B.M. check.			2.65	109.93
T.P.			9.80	97.78
				97.80

B.M. on B. of Gil. 8" 20' Lt. Sta. 10+90

B.M. on 7" R. Oak. 27' Rt. Sta. 15+00
check back to T.P. Sta 6+

44.38
 796

 5234
 4476

 958

1096
 43.80

 44.76

L.O. Towers

From	To	True Br.	Map	off.
Winnie	Remer	175 $\frac{1}{4}$ t	176°	$\frac{3}{4}$ -
Remer	Winnie	355 $\frac{1}{4}$ t	355+	$\frac{1}{4}$ -
Winnie	Farley	334-	334	0
Farley	Winnie	154°	154°	0
Winnie	Blueberry	113 $\frac{1}{4}$ -	113 $\frac{3}{4}$	$\frac{1}{2}$
Blueberry	Winnie	293 $\frac{1}{4}$ t	293+	$\frac{1}{4}$
Winnie	Bass Lake	15 $\frac{3}{4}$	16	$\frac{1}{4}$
Bass Lake	Winnie	195 $\frac{3}{4}$ t	195 $\frac{3}{4}$	0
Winnie	Birch Hill	274 $\frac{1}{2}$ t	275	$\frac{1}{4}$ t
Birch Hill	Winnie	94 $\frac{1}{2}$ -	95-	$\frac{1}{2}$
Farley	Bass Lake	45 $\frac{1}{2}$ -	45 $\frac{1}{2}$	0
Bass Lake	Farley	225 $\frac{1}{2}$ -	226	$\frac{1}{2}$ t
Farley	Pimushe	260 $\frac{1}{2}$ -	260+	$\frac{1}{4}$ t
Pimushe	Farley	80+	80+	0
Bass Lake	Day Lake	139 $\frac{3}{4}$ -	140	$\frac{1}{4}$ t
Day Lake	Bass Lake	320-	320-	0
Day Lake	Blueberry	207-	207	0
Blueberry	Day Lake	26 $\frac{3}{4}$ t	26 $\frac{1}{4}$	$\frac{1}{2}$ t
Birch Hill	Cuba Hill	216 $\frac{3}{4}$	216 $\frac{1}{2}$	$\frac{1}{4}$
Cuba Hill	Birch Hill	36 $\frac{3}{4}$ -	37 $\frac{1}{2}$	$\frac{3}{4}$
Birch Hill	Cass Lake	245 $\frac{3}{4}$	245+	$\frac{1}{2}$ t
Cass Lake	Birch Hill	65 $\frac{1}{2}$ t	66+	$\frac{1}{2}$
Birch Hill	Pimushe	302 $\frac{3}{4}$ t		
Pimushe	Birch Hill	172 $\frac{3}{4}$		
Pimushe	Cuba Hill	172+	172-	0+
Cuba Hill	Pimushe	352 $\frac{1}{4}$ -	353-	$\frac{3}{4}$

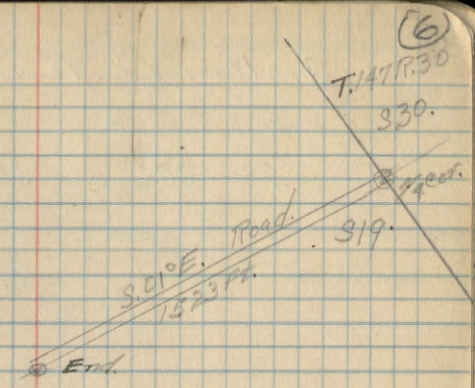
620.2 22°45' LT

930.0 37°40' RT

506.3

Sta.	Dist.	Bearing	Log S.	Log Sin	Lat. N. - S +	Dep. E. - W -
	1523	S. 01° E.	9.999934 3.182700 2.182634	8.241855 3.182700 1.924555	1523.	+26.6
99+00	568	S. 80° E.	9.239670 2.754348 1.994018	9.993351 2.754348 2.747699	+98.6	+559.4
43+32	432	S. 35° 30' E.	9.910686 2.635484 2.546160	9.763954 2.635484 2.399938	+351.7	+250.9
39+00	167	S. 42° E.	9.871073 3.222976 3.094049	9.825511 3.222976 3.048487	+1241.8	+1118.2
22+27	516	S. 11° E.	9.991947 2.712650 2.704597	9.280599 2.712650 1.993249	+506.5	+98.1
17+13	837.2	S. 48° 10' E.	9.824104 2.922829 2.746733	9.872208 2.922829 2.195037	+635.0	+316.6
8+75	709.5	S. 26° 30' E.	9.951791 2.850952 2.802743	9.649527 2.850952 2.500479		+166.3
4+66	166.3	East				

Total Lat.	Total Dep.
4915.0	3160.2
= 51.40000.	47.95000.
3392.0	3133.6 =



3293.4	2574.2	Δ Lt. 99° 30'
2941.2	2323.3	Δ Rt. 6° 30'

1699.9	1205.1	Δ Lt. 31°
1193.4	1106.7	Δ Rt. 37° 10'

635.0	482.9	Δ Lt. 21° 40'
0.00	166.3	Δ Rt. 63° 30'

0.00 0.00 Sec. Cor. 319.0'

10/5-6/34
J.A.G. / [unclear]

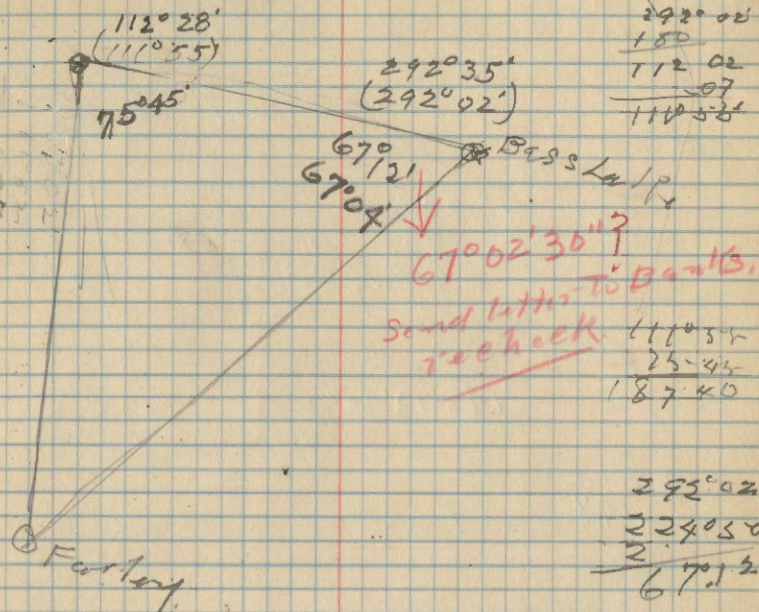
Grattan L.D. Tower. Lat. $47^{\circ}46'00''$

Apr. 16 Tues. 1935

$9^{\circ} 3'39'$ $0.88'$ per hr.

225° 23'
67° 12'
292° 35'
100
112° 07'
112° 28'

Farley should be $S 6^{\circ}30' W$, from Grattan, 7



$va. 8\frac{1}{2}$ Bass Lake Loc.
 E. 3216 cks. From N.W. Corn Sec 24
 S. 9.63 cks. T. 149 R 26
 to Bass Lake Tower
 N + S Lim. $va. 6\frac{1}{2}$

Apr 17 - 35

Stolle 4 1/2 M. Bass Lake

"Tower" Bass Lake 47° 42' 33"

553

Stakes. 47039' 00" Lat.

Apr 16 -

9° 53.4

10° 02.2

10° 03.6

0.88

0.88

4 PM

N 45° 13' 00" W. E. side of S.E. corner

to center of stone

180

45 13

139° 47"

+ 26 1/4

360
60 5
53 0 41

47° 29' 54"

9' 10"

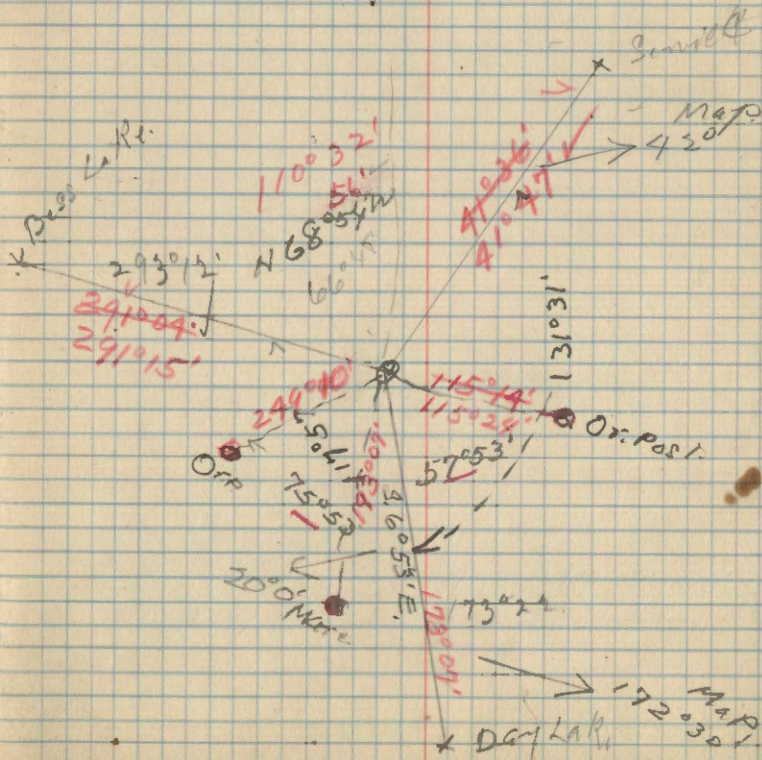
47° 39' 06"

180
45 13
139 47

6.8 8.7 10 15
T. 60 - R 26

Sec. 2
29

Stake D.



Day Lake, L.O., April 17-35

⊙ Bass Lake
L.O.

Stake 9

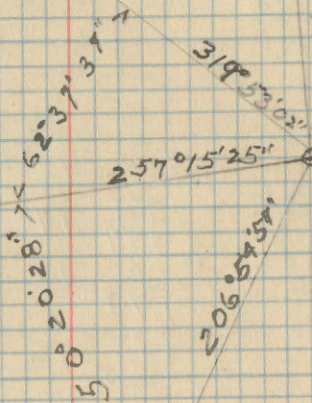
Stake 4

Winnia

⊙

Day Lake
L.O.

⊙ Blueberry
St. L.O.



50° 20' 28" ✓
206° 54' 57" ✓
257° 15' 25" ✓
623.734 ✓
319° 53' 02" ✓

360

$$\begin{array}{r} 128^{\circ} 26' 30'' \\ 65^{\circ} 15'' \\ \hline 63^{\circ} 11' 30'' \end{array}$$

64035'

$$\begin{array}{r} 128^{\circ} 26' 30'' \\ 122^{\circ} 44' 07'' \\ \hline 5^{\circ} 42' 23'' \\ 360 \\ \hline 359^{\circ} 17' 37'' \\ 180 \\ \hline 179^{\circ} 17' 37'' \\ 180 \\ \hline 5^{\circ} 42' 23'' \end{array}$$

$$\begin{array}{r} 360 \\ 549.30 \\ \hline 509.9 \end{array}$$

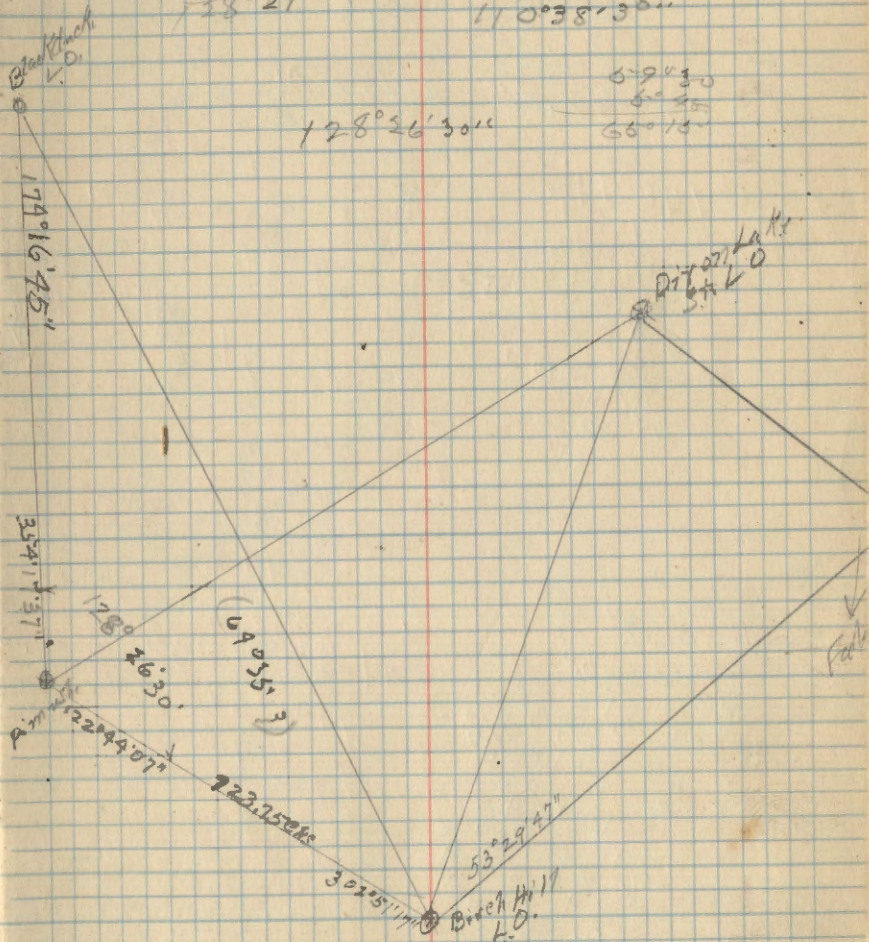
$$\begin{array}{r} 334^{\circ} 30' \\ 122^{\circ} 44' \\ \hline 231^{\circ} 46' \\ 122^{\circ} 44' \\ 5^{\circ} 43' \\ \hline 128^{\circ} 29' \end{array}$$

$$\begin{array}{r} 360.01 \\ 302.37 \\ \hline 57.08 \\ 5.29 \\ \hline 51.85 \end{array}$$

10

$$\begin{array}{r} 69030 \\ 6^{\circ} 45' \\ \hline 66^{\circ} 15' \end{array}$$

128° 26' 30"



Apr 30 - 1935

14° 39.2'

0.77

8 1/4

6.4

6.165

14° 40.6'

7.5

6.36

14° 41.35'

1.50

2:15 PM

14° 39.85'

Blueberry Hat.

47° 21' 28"

Nushkita

47° 21' 25"

MLA	25.0	00.0	100
MLA	94.0	30.0	100
MLA	20.0	30.0	100

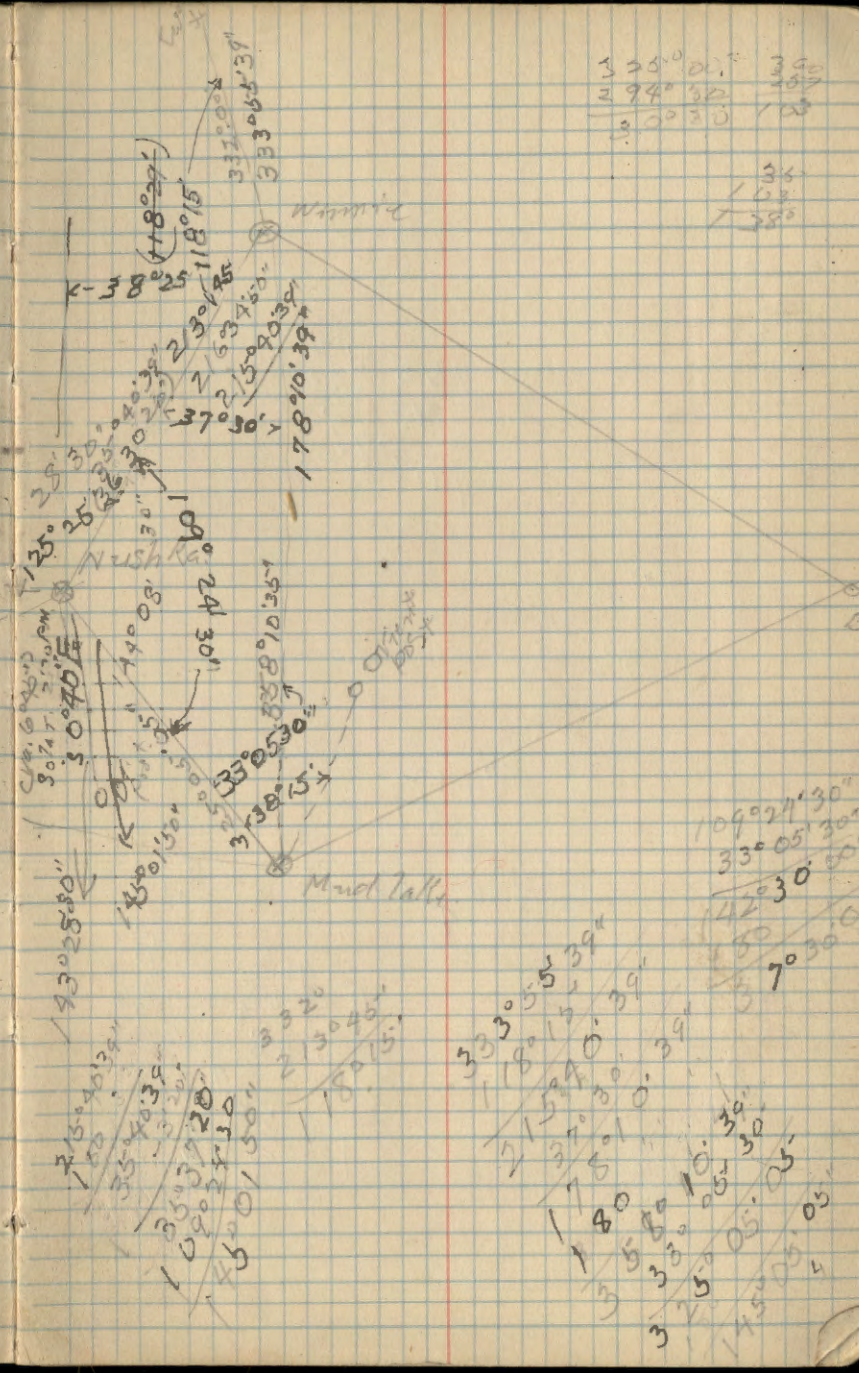
100	100
100	100
100	100

178° 19'
67° 04'
29° 41' 30"
29° 12' 30"
360° 00' 00"

29° 41' 01"
108° 27' 01"
138° 08' 01"
180°
41° 51' 54"

360
333° 55' 34"
26° 04' 21"
15° 45' 14"
41° 49' 35"
28° 43' 30"
117° 57'
146° 40' 30"
180°
33° 19' 30"

440° 08' 30"
173° 00' 30"
180° 28' 30"
36° 31' 30"
216° 31' 30"
216° 31' 30"
213° 34' 20"
2049' 50"



109° 24' 30"
33° 05' 30"
142° 30' 00"
180°
7° 30' 00"

333° 55' 34"
118° 15' 39"
115° 40' 39"
175° 10' 39"
180° 10' 39"
333° 55' 34"
118° 15' 39"
115° 40' 39"
180° 10' 39"
333° 55' 34"
118° 15' 39"
115° 40' 39"
180° 10' 39"

$$\begin{array}{r}
 153^{\circ} 51' 21'' \\
 45^{\circ} 24' 20'' \\
 \hline
 108^{\circ} 27' 01'' \\
 \\
 45^{\circ} 24' 20'' \\
 8^{\circ} 12' 20'' \\
 \hline
 37^{\circ} 12' 00''
 \end{array}$$

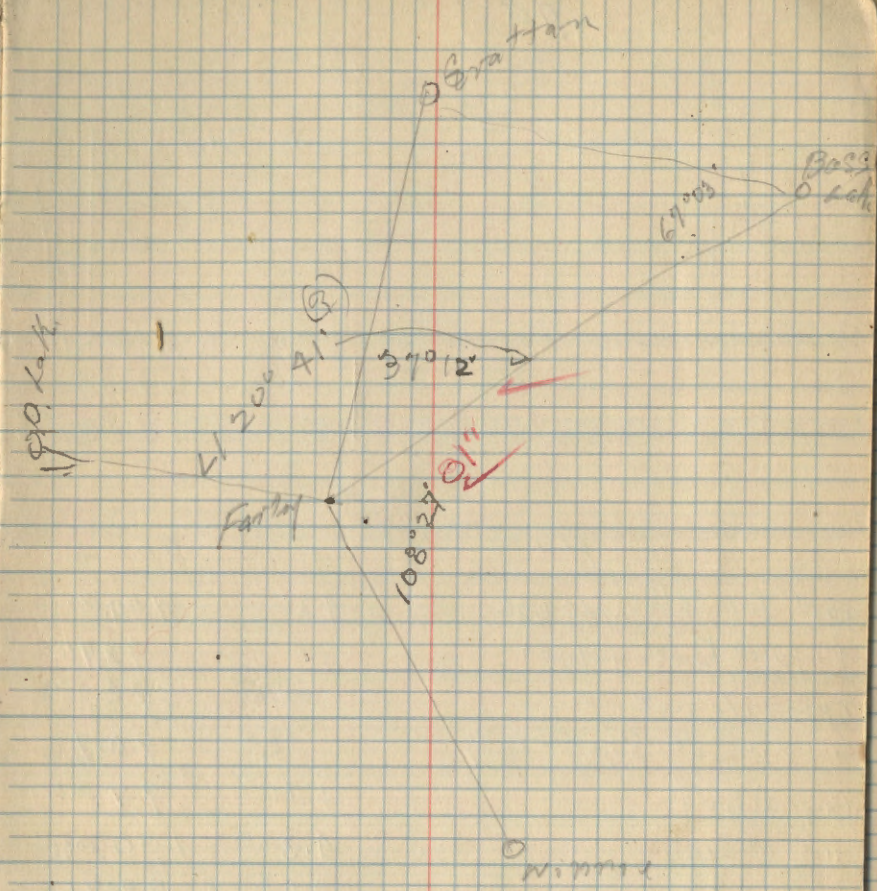
$$\begin{array}{r}
 153^{\circ} 51' 21'' \\
 45^{\circ} 23' 01'' \\
 \hline
 108^{\circ} 28' 20''
 \end{array}$$

$$\begin{array}{r}
 360 \\
 284^{\circ} 45' \\
 \hline
 75^{\circ} 15' \\
 45^{\circ} 22' \\
 \hline
 20^{\circ} 37'
 \end{array}$$

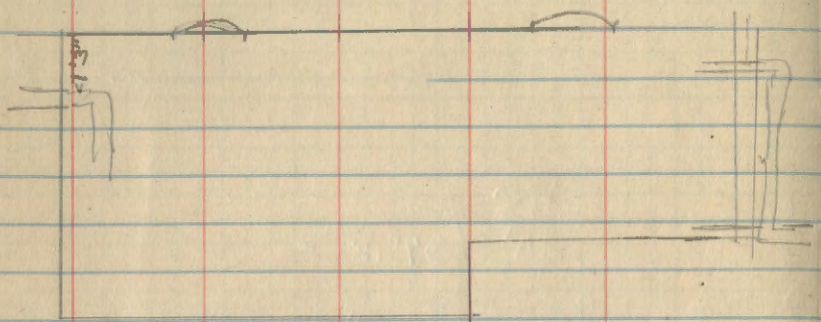
$$\begin{array}{r}
 15^{\circ} 45' \\
 37^{\circ} 12' \\
 \hline
 52^{\circ} 57' \\
 68^{\circ} 03'
 \end{array}$$

$$\begin{array}{r}
 15^{\circ} 46.5 \\
 8.2 \\
 \hline
 15^{\circ} 54.7 \\
 2.0 \\
 \hline
 15^{\circ} 56.7 \\
 1.5 \\
 \hline
 15^{\circ} 55.3
 \end{array}$$

3.771



22" = 1.9# 4'9" B. of S. Tank
 $\frac{22}{100} = .22$
 $.22 \times 9 = 1.98$



Rod R. 4.36
 7.25
 11.61 Top of Floor:

725
 99.26
 92.75
 6.51

109.36
 11.61
 93.75

	HI	+ F.R.	F.R.
B.M. Top of Form	109.36	436	109.00
Top of Base Floor			92.75
Top Tile out			92.00
" " at Septic tank			90.1
Gr. at Bldg.		5.10	99.26
" at Sept.		4.30	100.06
St. West End.		4.60	99.76
Center		4.05	100.31
E. end.		3.85	100.51
Bottom Floor Septic tank			

Bottom of Tile	Cent.	Bottom Septic
91.50	7.76	
89.56	10.5	
89.56	10.5	15.16
86.30	13.46	
86.50	13.51	
86.30	14.21	
		84.90

~~Farley V = 1350. = 1357. Road
 1290 = 1297
 60.~~

+ H I -

Hub
 BM 100.00 100.00
 1.30 101.30

1 1/2 ft higher than
 present level

top tail water. 9.80 91.50
 Bot. Ch. 10.30 91.00
 water above. 7.20 94.10
 top of Dam. 5.90 95.40

X Section Pidgeon River. Dam Site.

BM 100.00
 BM 1.4 101.40 100.00
 36 E 5.00 96.40
 42 E 8.40 93.00
 58 E 9.20 92.20
 59 9.80 91.60
 62 9.80 91.60
 63 8.90 92.50
 67 8.70 92.70
 69 7.40 94.00
 77 5.00 96.40
 90 5.70 95.70
 126 5.10 96.30
 141 1.60 99.80

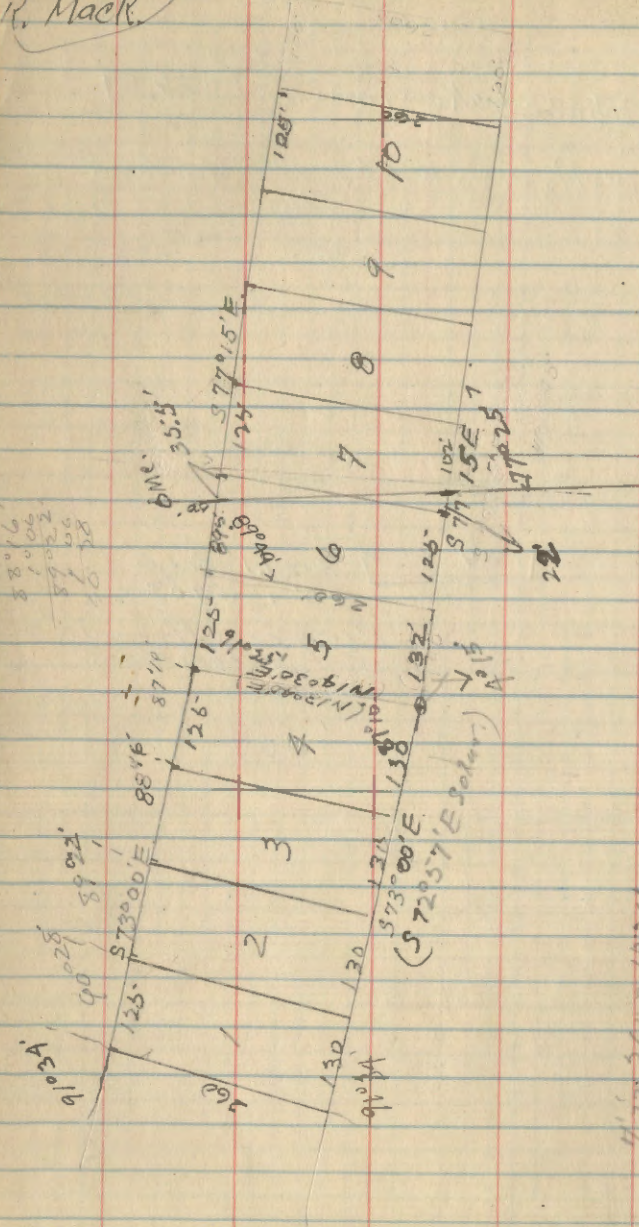
= 2.84 above. Lake at present = 1297.84
 Spike in 4" willow on west. side of old dam. 2

7' 1/2
 12' 1/2 deep
 40' in above
 Pidgeon River
 above dam

May 1st
Ed. Carey
K. Mack

Crescent Beach.

Apr. 27-36
9 AM



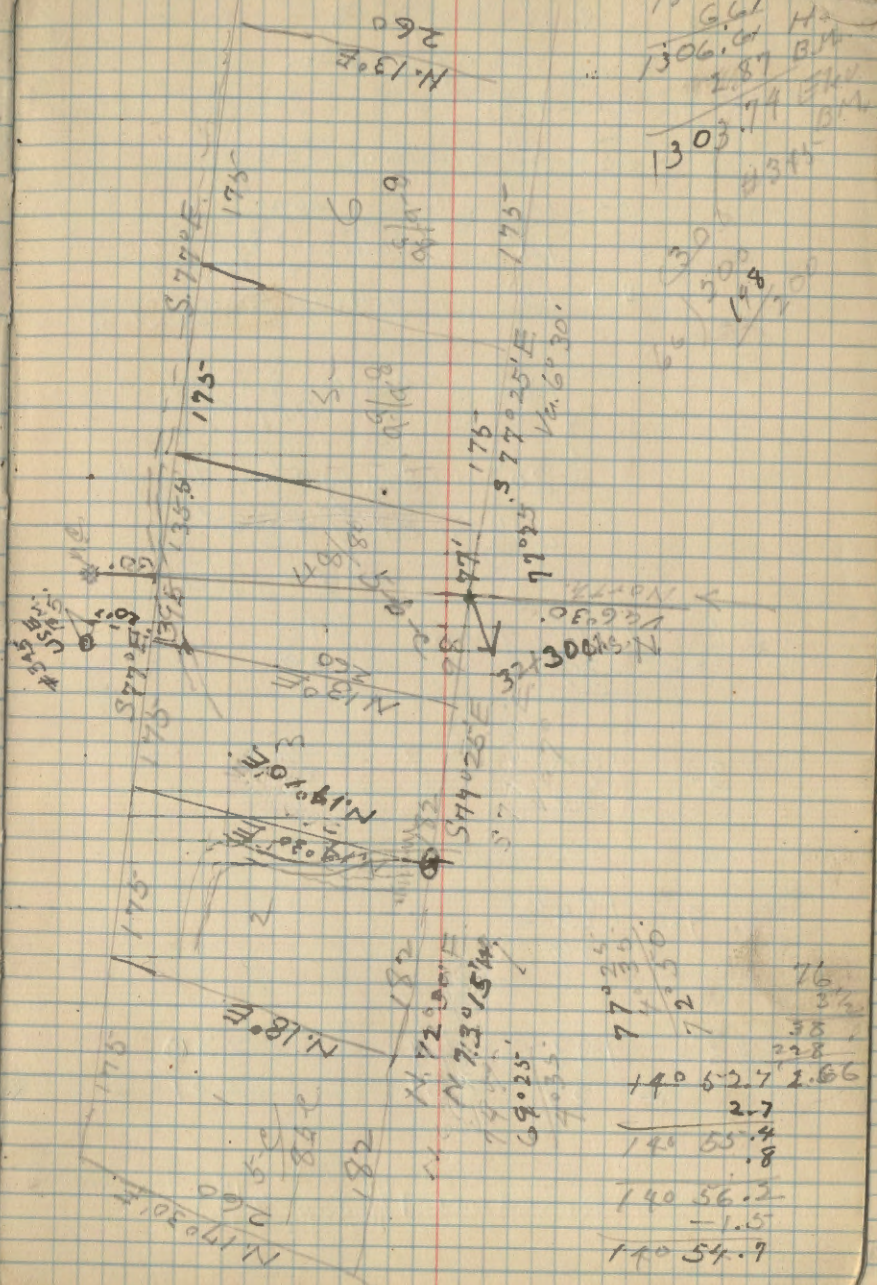
130° 37.5" ⁷⁹
24 337
130° 39.9
1.2
130° 40.9 9 AM

87° 10
88° 16
89° 22
90° 28
91° 34

4 1/2 in 260 = 1036
5 1/2 in 260 = 1006

1300
6.61 H
1306.0 B
2.87 B
1303
3375

30
50
148



77° 25
77° 25
140 52.7 2.66
2.7
140 55.4
.8
140 56.2
-1.5
140 54.9

76
3 1/2
38
228

Soil Samples. ^{May 6th 1935}
 Ranger Sta. ^{New Nursery}
 Septic Tank

- #1 - Top Sand - Fine
 Out: ~~#2~~ 5" down Sand "
 #3 - 10' " Sand Coarser & dryer
 14' " Coarser Sand Gravelly
 & dryer
 #4 15' " getting finer Gravelly
 Sand
 18 1/2' " Coarser Gravelly Sand
 Dryer
 20' " Sandy clay damp
 24 1/2' " Clay & wet.

Saturated
 #1 170 1/2 gram 210
 Dry - 39 - 39

#3 - 190 1/2 225
 - 39 - 39

#4 - 195 1/2
 - 39

dry. Saturated
 #5 - 198 194 230
 - 39 - 39 - 39

Round bot. 1 1/16" deep. 2 15/16" dia.

from top to 18 ft.
 Sand and gravelly Sand,
 containing from 5-10% moisture.
 20 ft. sandy clay only about 9"
 25 ft. wet clay

Track trail Survey May 15-35
and TRANS.:

Carl Rasmussen
Ed Carst
J.A. Bjelhang

25+62 pt.

6.27 ch

N 87° E

21+48 pt

6.03 ch

N 53° 30' E

17+50 pt. $\frac{1}{4}$ in $\frac{1}{4}$ in $\frac{1}{4}$ in $\frac{1}{4}$ in $\frac{1}{4}$ in = 225' South

13.67 ch

N. 59° E

8+48 pt.

4.38 ch

N 69° 30' E

5+59 pt

8.96 ch

N. 70° 00' E

Few Rocks,
Clear

cul 12"

1975

Low \rightarrow Take off lake
Ditch. 70 S E

cul 15"
1950

Low. Small Fall

Low 1977

Clear field

Starting point.

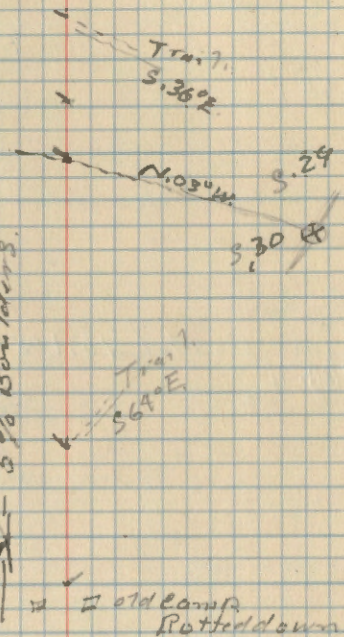
Square Point Pt. 1
Sec. 31 T144 R30

50+17 Pl. $N08^{\circ}15'E$
 1.82 $N36^{\circ}W$
 48+97 Pl.
 2.88 $N01^{\circ}30'W$
 47+07 Pl. $N23^{\circ}30'E$
 1.89
 45+82 Pl. Sec. Line N-S betw 29-30 - 12 Chs N. of Sec Cor.
 2.26 $N35^{\circ}15'E$
 44+33 Pl.
 2.91 $N62^{\circ}E$
 42+74 Pl. $N43^{\circ}E$
 1.74
 41+59 Pl. $N73^{\circ}15'E$
 2.59
 39+91 Pl. $S67^{\circ}E$
 4.90
 37+01 Pl. $N77^{\circ}45'E$
 1.89
 35+76 Pl. $N66^{\circ}15'E$
 3.72
 33+50 Pl. $N116^{\circ}E$
 7.33
 30+50 Pl. $S78^{\circ}E$
 2.39
 28+92 Pl. $S83^{\circ}45'E$
 5.00
 25+62 Pl.

T.T. P.U. in dry weather.

578 Boulders.

M-C
25-76
Few Boulders



74+00 Pl. North

72+90 cut.
N 65° E

69+00 Pl.

66+35 W. Line East (75+05 W. lks.)
65+78 N 25° E

64+00

61+00 cut.
North

56+75

N 13° W.

53+29 Pl.

51+75 Line.
N 08° 15' E

50+17 Pl.

Place Small Fill
Cut. 15"

Gen. N. E.

530 1/4 cut 529
Low cut 7.15"
Small fill
Dr. South.
Take off take out

200' x BT. Oak
Low Fill side + Ditch
Take off take out

59+90
70% Fill Small
- 12" cut.

56+75 short hole
Place cut 15"

Fire Trail cut in Dry weather
Very few boulders.

51+75 1/6 Line east
1 ch. E. of cut.

zero 5/16

97+00 cul.

52.08 ch

91+75 place cul.

East

84+75 pl.

83+75 cul.

16.29 ch

82+00 statk.

74+00 pl.

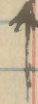
Place 12" cul. Small F. 77

East straight

Place 20" cul. 9 F. 77
(was 20' out) 100

Place 12" cul.

123+75 P.I. & Sec Line



120+20 cut.

590.80 ft

East

112+00 cut.

106+25 cut.

103+30 cut.

101.00

~~X~~ Vertical

East Straight

123+75 2350 lbs. so of P.I.

= place 12" cut.
Repair fill
& take off take R
South to D.I.

→ Place cut. 15"
Repair fill.

= Place 12" cut.
more fill.

= Place 15" cut.
(Fill washing out)

142+72 Cuba Hill Road.

139+00

131+00

127+75 ~~cut~~

126+00

MARKER

321 N. 40° E. 150
22500 ft
322
Cuba Hill Road
142+72
End of Tr. Wall
May 18-74 35

No. → N.E.

Take out
No side
cut out
water
90° around on
high ground
Hole during Road RT
around Hole

18+25 Sec. Line E+W. 18chs. W. of Cor.

10+50 place 12" enl

N.W. on trail.

o

18chs X Sec. Cor.
Place small enl. 12"
" Fish

Place small enl. 12"
Small fish

M.C.
Nice game.
Clear out brush, on trail.
High land.

1/16 cor # 7 S. 27
T. 144 R 30

May 16-35
J. A. Johnson &
Ed. Caron
C. Ramshead, Jr.

50+00

47+90 Place (A)

37+40 Line N of S. 13.30 chs N. of cor.

36+00 stake

35+00

34+00 stake

24+00

N.W.
T.P.R. Grade.

~~place 12' cut~~
small fill.

(Low) small fill of
ground 50' N.
from 40-44

(Low) small fill of
90' to
70' north

← 13.30 chs

N. of S.

East in
hand
side
of
road

22+71 Road.

S 06° W.

21+91 Pl.

S 42° 30' E.

20+97 Pl.

S 59° E.

18+07 Pl.

S 62° 30' E.

16+17 Pl.

N. 59° E.

14+66 Pl.

S 44° E.

13+38 Pl.

S 82° E.

12+23 Pl.

S 53° 30' E.

11+30 Pl.

S 17° E.

9+74 Pl.

8+30 Pl. S 06° 15' W.

S 32° E.

7+64 Pl.

S 64° E.

6+52 Pl.

S. 76° E.

4+33 Pl.

3+65 S 54° 30' E.

2+32 Pl.

S. 22° E.

0

50170

Road

12 man days per mile.
Necessarily. Clean out brush on sides

Low small fall.

Low place. 12' cut.
50' fall small.

1/16 sec. 27 sec. 27 T144R30
going S.E.
May 16-35 on trail.

25+36 Lim.

17+60 - off take ?

East

8+00

Low place.

7+00

on center

O.

~~E~~ Lichen^x

Low off take ?

Low off take. Di 70 h.

May 17-36
J. Gjelhang
Ed. Carey
C. Ramshead.
G. Moe
A. Haristo

Pixel #3
Cuba Hill Pract.
starting point.
SW-SW Sec. 4. T194R30
Going SE. and East.

57+39 Section

50+00

40+00

S81°E

30+00

20+00

See line.
~~3000~~ See Cor.

77+71 Sec Line N+S.

75+25 Sec. Line E+W.

74+00 P.C. Pt. old RR grade also going Lt.

70+00

63+00 Place 15" end.

N. 06°30' E

60+00 P.T.

longer

52+00

1800 ft.
Sec. Line

Sec. Line

= place end 15"
possible only in
dry weather

100+00

91+50

303°15'W.

South.

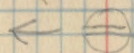
86+00 PT.

85+75 Place cut

80+00

79+00

78+00



Place 12" cut
& take off to R. Ditch
?

Place 12" cut.

Place 12" cut.

128+55 Place cut.

← = Place 12" cut.

111+60 cut. OK.

104+87
26
131+2

← = Cut in place. 1' x 2'

106+00 place cut.

Taller than

← = Place 12" cut.

104+87 Line Ed W.

← = Cot.
approx. S.E.

518°30'E

153+68 RI

512°15'W

152+08 RI

519°E

150+85 RI

907°30'E

149+72 RI

320°W

147+75 PI

520°E

147+00 PI

510°E

144+00 PC. Δ RT. + LT.

143+25 Place end.

140+00

920°30'E

134+00 PT.

133+00 Lim. E+W.

131+00 PC. Lt.

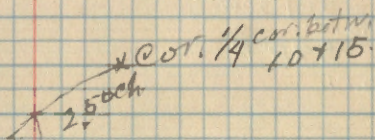
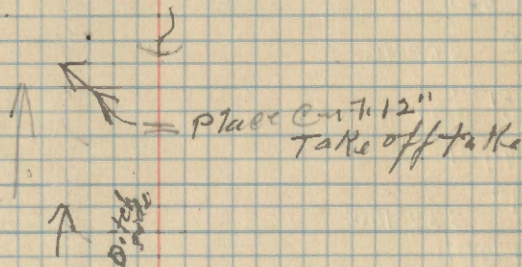
130+00

= Place 12" end

Woods

M.C. 6

⊙ End of clearing



N. 87° 30' W.

172+83 PI. R.R. Grade.

1.94 S 50° 15' W.

171+55 PI.

2.2A S 71° 30' W.

170+07 PI.

2.15 S 65° 15' W.

168+65 PI.

2.78 S 58° W.

166+81 PI.

16² S 21° W.

165+74 PI.

197^{chs} S 37° 15' W.

164+44 PI.

269^{chs}

162+70 PI. S 04° E.

16⁵ S 39° E.

161+61 PI.

2580^{chs} S 27° 30' E.

159+91. So. Line = E & W. P.I.

158+53 PI. S 01° 30' W.

S 38° E.

157+32 PI.

S 42° 15' E.

155+14 PI.

S 18° 30' E.

153+68 PI.

X 50 - 0.0000000000

M 16 - E.

= cut. 1.2119.
S 86° W.
2.80 chs

X COT.

S 86° W.

58.
1/2
1/2

205+00

200+00

504°W.

196+85 sec line E+W 10.25 chs E. of cot.

196+00 Turn going South,

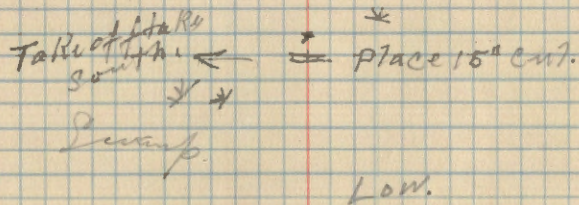
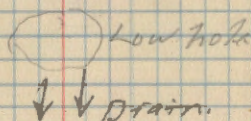
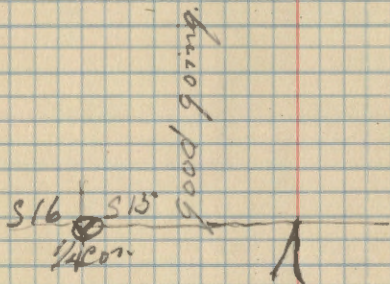
191+00

187+00 High 9s

186+00 PC. Δ RT.

185+50 Place cut.

179+75



918° E.

22+88 P.I. Δ Lt.

21+00⁸⁹ S 41° 30' W.
Place Cut.

20+31 P.I. Δ Rt.

18+57²⁸ S. 16° 45' E.

See Lim.

17+48 P.I. Δ Lt.

6.78
S 15° 30' W

13+20 P.I. Δ Rt

7.65 chs.

8+15 - D. Tim.

6.14^{ch}
923° E.

4+09 P.I. Δ Rt.

6.20 chs.

975° E.

0+00

Trait.
3 d. H. 22
Place 12" cut,
flow.

sect 2

1/4 cor.

2850 chs.

S 1

Track now water
place 15" cut.
small pit.

865^{ch}
per Bed.

5-C.M-e.

Clearing 9 Gr.
250^{ch}

J.A. Grotting &
Ed. Carr
C. Pamstead, ch.

210 chs. # 13 - S. 1
T. 144 P. 31
Map 20-35

936°15'E

50+22 P.I. Δ RT

49+06 950°30'E
P.I. Δ LT

920°E

47+84 P.I.

47+36 --- 44 Line E & W.

6.50

931°E

43+06 P.I. Δ RT
141
42+13 P.I. Δ RT

921°E

250

936°15'E

40+39 P.I. Δ LT

250

922°E

38+78 P.I. Δ LT

38+50

37+98

9.50 ch

909°46'W

32+44 P.I. Δ RT

17.89 ch

918°E

29+15

25+06

1/4 sec 360 chs

Trail

F. 77 P. 1 acc. 15" cut.

8-D-5 ch

V

P. 1 acc. 12" cut.

5-C-Mc

35000

73+69 S 10° E
P.L. Δ RT.

72+09 S 26° 00' E.
P.L. Δ Lt.

70+00 P.L.
S 65° 30' W.

68+59 P.L.
S 74° W.

S 35° 45' W.

67+38 P.L.

S 66° W

63+64 P.L. Δ RT.
S 67° 45' W.

4⁵⁰

S 38° 16' N.

60+83 P.L. Δ Lt.

3²⁵
58+95 Lt. ne.
S 72° 45' W.

58+67 P.L.
S 02° W

56+48 P.L.
S 32° 45' W.

55+01- P.L. Δ RT.

S 01° E.

53+08 P.L. Δ RT.

51+58 S 48° E. See Lt. ne.

51+03 P.L. ne.

50+00 S 38° 15' E.

Lake
13

75' from Lake shore

8²⁵

X

See Cor. 5-C-640 W
Ab.

X 2505 N.

See Line 58+95

AC-400⁰⁰ per acre. Gr. + clear

X

5-C-500⁰⁰ per acre

X 14
505
20 3475 N.
Place 12' E + 2'

82+32- Lino.

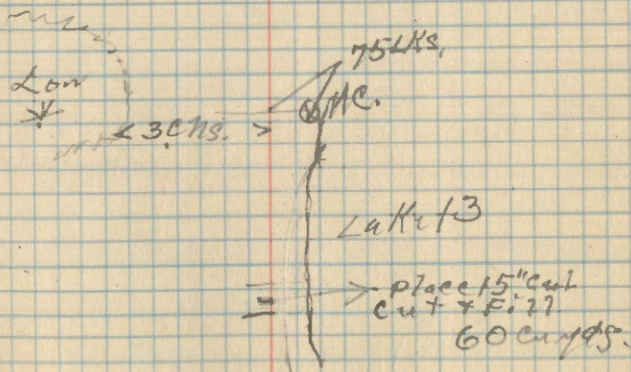
S 07° W.

79+87 Pl. Δ RT.

78+24 center of mly

S 10° 30' E

75+00



33+00

10+75

S 80° 15' E

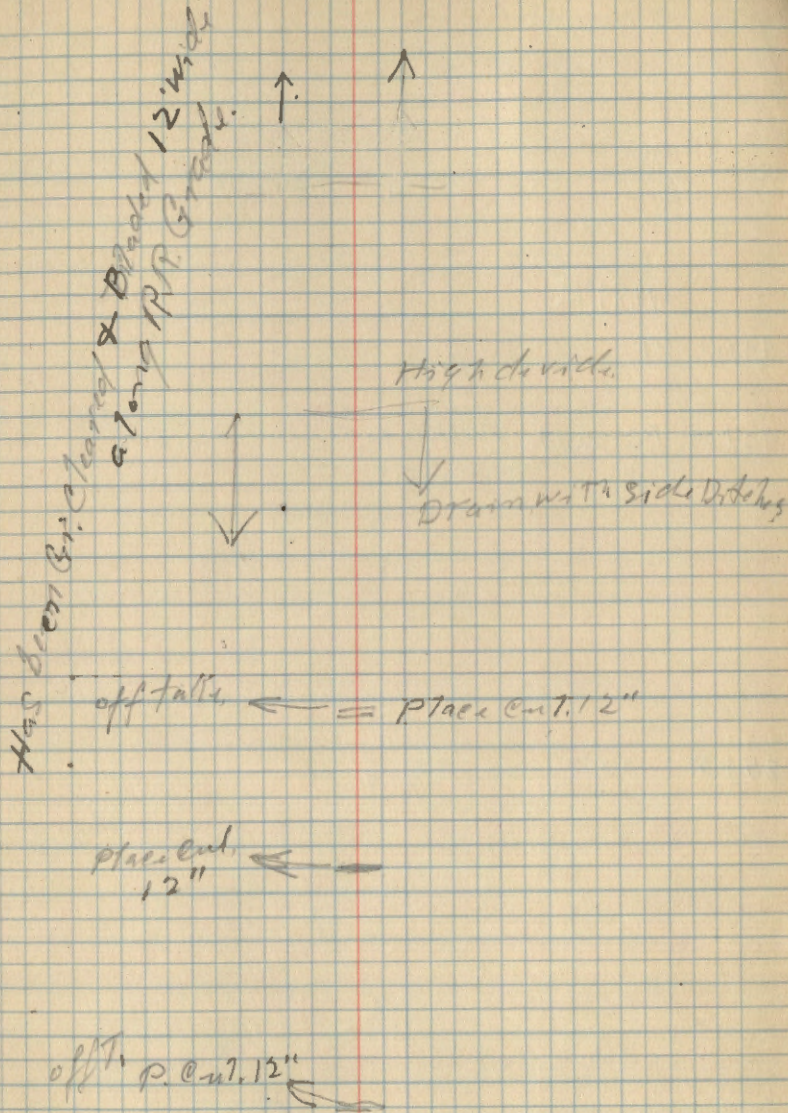
8+00 PT.

7+50

2+50

0+00

07121111



J.P. Gillingham &
Ed. Carey
C. Ramsstead/John.

SEC 33-T145-R30
Fireway #2
Cuba Hill Road
May 21st 1936

N. 89° E.

19+00 P.T.

42+00 P.C. Δ L.

35+35

26+25 1/4 line.

25

→ 29 chs E.
50 feet North of Sec. line

Place 15' cut.

To 29 chs E.

Sec 34

Place cut, 15"

500 chs N
X Sec Cor.

S. 33

73+92 Sec line

68+00 PC Δ LT.

61+00 cul.
60+

55+00

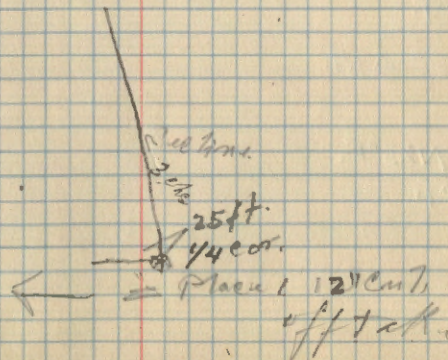
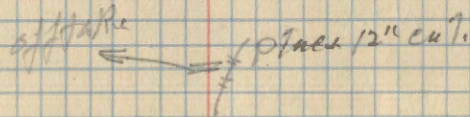
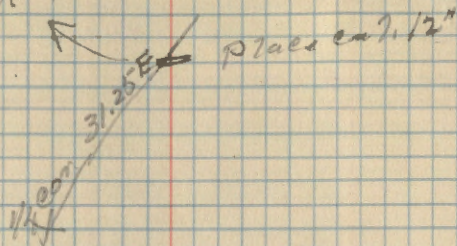
$983^{\circ}30'E$

52+85 ^{PT.} Sec Line

51+50 PC ART short curve

50+00

take off take



N43°15'E

99+75 - cul

98+50 P.T.

93+00 P.C. Δ RT.

91+25 N. 01°30'E

90+00 P.T.

89+00 P.C. Δ LT

N16°30'E

87+00 P.T.

86+00 Line N + S.

84+00 P.C. Δ LT.

N31°15'E

81+25 P.T.

80+00 P.C. Δ RT.

N23°E.

77+35 P.T.

curve.

75+00

→ Place cul 12"

Place 15' cul.
Habit Fall
Low
Correct openings

16 sets N + S
Cul

123+00 cul.

122+00

N05° E

113+50 PT.

111+00

110+00 PC Δ Lt.

107+25 cul.

9+00

LOW. For Th. 900.
→ Place 12" cul
LOW.

→ Place cul 12"
To drain nest side (⊙)

→ Place 12" cul
off take

153+19, P1, N. 12° W, about 300 ft.

N. 99° 30' E 770

145+60 cont.
145+48 P1

East.

133+75 P.T.

East.

132+00 PC. Δ Pt off P.R. Grade.

N 05° E

125+00

S 45° E 60'
1/4 cont. 26
35
→ → P1 cont. 12'
off/delta

~~Leave P.R. Grade~~

old P.R. G.T. goes N. 05° E

52330m

22+60 Pl

South

18+00 Pl.

13+44 1/16 c67

7+00

4+00

1+30m @ South

0+00

to New York
to Coon
to Road

to Old Road

A.C.

600 p.p.m. to Old Road

x A
cleared.

= p. cut.

= p. cut 12"

See 36 T149 R31.

May 21-33 (PM)
JAG Johnson
Ed Carr
C. P. Harris

1/4 com sic. line.

see p. Road

N103°E

50+79 P.L.

49+00
48+47 1/4 Line N44°30'W

47+30 P.L.

N62°W

45+67 P.L.

41+18 381°W

N.78°W

39+63 P.L.
38+75 P.L. 370°W

N74°W

36+96 P.L.

369°30'W

34+46 P.L.

N57°W

31+43 P.L.

S61°W

29+72 P.L. A.R.T.

28+01 S04°E 1/4 Line E & W

27+31 P.L.

25+0

Cr. Lake

← Pent. 12"
Small fall.

Fall.
8-P. - 5-b-4-b

4000 p.p. area

5000 p.p. area

From corner go west on 30' side
of line and ca 100'
old road at P.L. 34+46
A.R.T. here 7-58
on S.W. side

34 oct SW

5-b sandy

	+	H.I.	-		
B.M.	3.65	103.65	365		100.00
W. on N.S.W.				540	98.25✓
W. on S.S.W.				610	97.55✓
T.R.B.M.	3.32	103.92	332		100.00
T.P.	4.86	103.18	500	500	98.32✓
gn. in Swamp				515	98.03✓
" " "				540	97.78✓
T.P.	5.20	103.28	510		98.08✓
				545	97.83✓
So Side of Swamp dike outlet?				520	98.08✓

Big Ditch		106.55		655	100.00
				600	100.55
				568	101.00
				570	100.85
T.P.	4.75	108.70		260	103.95✓
				745	101.25✓
at 98' S.W. 280' from Road.				9.00	99.70

Twp. W 7.78 104.78
 650
 6.65

B.M.
 * B.M. on 10" Aspen 20' SE of crossing at Road.

Level 18 for off take
 on Lake #13 to Cuba Hill
 about center see 18-T. 14483
 June 12-1935

66.5
 4.18
 1.00
 65.32
 4.78
 4.78

Sta.	+	H1	-	Elev.
Water at Road.	12.70	112.70		109.00
Grade.			11.40	
T.P.	3.19	112.56	3.33	109.37
T.P.	2.34	109.89	5.01	107.55
T.P.	3.58	103.15	10.32	99.57
Low place in open			5.20	97.95
BM			3.30	99.85
T.P.	4.86	103.73	4.28	98.87
TOP 1/4 cor. In water 114 E.			4.01	99.72
T.P.	5.35	106.29	2.79	100.94
Water.			7.06	99.23
BM.			5.70	100.59
BM.	2.86	102.71	2.06	99.86
Water 194 W.			5.60	97.11
T.P.	4.20	101.63	5.28	97.93
Water 163 W.			6.05	95.58
Water by Road.			7.40	94.23

Levels for Swamp Lake states Curb at 111 cutoff.
 Dist. 560 water 1.9' deep.
 June 22-35 PM
 J. A. Grubbs
 Rod Carey.

190'
 279'
 302'
 368' To line at 80m ft
 (330 30) (196 30) To line west
 1139'
 BM top of 11th St. in line west.
 114' East

126'E, 151'E
 157'E
 397' line stake 20' to E. Top BM

BM on top with 11th St. 194' W.

169' W.
 163' W.
 190' W.
 6.61'
 1591 ft of ditch deep 77'
 1025" " " " 1.27'
 1139" " " " 2.00'
 1320" " " " 2.89'

	+	H.I.		J.A. Gielhany 6/25/35	ERM.
B.M. Top of M.H.	6.09	106.09			100.00
F.P.T.P. Hydrant	2.99	109.09	0.04		106.05 ✓
Bottom SE window			6.79		102.25 ✓

M.H. B.M.	6.05	106.05			100.00
M.H. 2nd St. N. of G.N. Depot.			3.94		100.61

Sta.	+	H.I.		ERM.
M.H.	5.93	106.09 ✓		100.61

0+00			5.70	100.34	
+50			6.60	99.44	
1+00			7.40	98.64	
1+50			7.60	98.44	
2+00			7.00	99.04	
2+50			6.50	99.54	
3+00	Lot Line		5.50	100.54	
3+40	St. Inter		4.65	101.39	
3+73			4.55	101.49	
4+23			4.40	101.64	
4+73			4.00	102.04	
5+23			3.30	102.74	
5+73			2.90	103.14	
6+23			2.50	103.54	
6+73			2.30	103.74	
7+06			2.20	103.84 ✓	
T.P.	2.81	108.85	0.00	0.00	106.04 ✓
7+06			5.00	103.85 ✓	

Levels for Sewer June 25 = 35
 H.Q. Bldg. to City Sewer 94.30
 5.70 to Bottom of 6" tile.
 94.95 Top of Floor

102.25
 7.30
 94.93
 100.00
 3.6
 112.80
 4.00

-8' = 92.61. Bottom of 8" tile.

Manhole 1 - B.M. N. of G.N. Dep.
 X → Edge.

B.M. Line East side of Street.

B.M. Line
 Center St.
 Hydrant.
 Center St.

Sta. +	H. I. -		ELR
7+06	108.85	5.00	103.85
7+39		4.90	103.95
7+89		4.50	104.35
8+39		4.50	104.35
8+89		4.60	104.25
9+39		4.90	103.95
9+89		5.60	103.25
10+39		6.10	102.75
10+89		6.30	102.55
11+09		6.30	102.55
11+39		6.40	102.95
11+89		6.70	102.15
12+48		6.61	102.24 [✓] (102.25)
Top Window ledge			

Center St.

~~B/R Line~~

center of Alley

~~B/R Line~~

(center of)

Headquarters Bldg.

Window ledge

Sta.	+	H. 1/2	-
Man H. 1 B.M.	3.49	109.10	10061
M.H. 1 B.M. East	5.28	98.82 ✓	
M.H. 2 B.M. E.	8.15	95.95 ✓	

97.00
92.71

89.73

88.05

89.16

- Man H. 1 B.M. East 8.61
DRAIN going East 8.61
" " North 7.90
- Man H. 1 B.M. East 9.20
Bottom of 7.2
- M.H. 2 B.M. East 11.90
Bot of T.H.

Gr. Rod.

Notes on Sewer Levels From Edge of Pavement 90' North of Manhole 1 Bk N. of Gr. N. Depot To H. Q. Bldg.

⊙ Man Hole.

Sta.	+	H. L.	-	Gr. Rod.	Elev.
Rim of MH	BM. 4.66	105.27			100.61
0+00	top of tile.		11.34	4.95	93.97 100.37
	top of tile.				99.12
0+50				7.80	100.97
				5.87	99.40
					99.27
				5.72	99.55
				6.56	
					94.42
1+50	BM 1.39	103.04	3.61	6.41	99.85 101.65
		99.53			
		99			
7+75	1.68	103.33		4.49	94.50 99.14
					94.57
2+00	1.98	103.63		9.06 4.41	99.22
					94.65
2+25				8.98 4.34	99.29
2+00	3.93	105.58		10.86	94.72
	4.01	105.66			101.63 BM
3+40	MH 4.63	106.28			95.02
				10.64	94.99
3+47				5.18 4.85	95.05 100.81
3+72				4.775	100.885

top of Sewer tile. — Edge of pavement. 0+00

Single open W 0+23.5

BM. T. Plaza St. cor. spike E side

Single open W 1+53.5

" " " E 1+59.5

W 2+17.5
E 2+19.5

Actual elev. of tile placed.

⊙ Brick Man Hole
N.

© Man H. K.

	+	H 1.		
BM	4.63	106.28		101.65
3+77			5.48 ✓	100.80
3+72			5.71 ✓	100.87
3+73 = cot line.				
3+97			5.39 ✓	100.945
			5.64	100.92
4+22			5.27 ✓	101.01
BM Hyd. 0.51	106.56 ✓		4.39 ✓	106.05 BM Hyd.
4+77			4.32 ✓	102.24 ✓
4+72		July 16-35	4.245 ✓	102.315
BM Hyd. 0.39	106.440 ✓			106.05
3+97			5.53	100.91 ✓
4+22			5.445	100.995 ✓
4+22 Rise.			4.285 ✓	102.155 ✓
4+77			4.210 ✓	102.230 ✓
4+72			4.140 ✓	102.300 ✓
4+97 = 16 E. of Easting line.		July 17-35	4.065	102.375 ✓
BM Hyd. 2.85	108.535 ✓			106.05
1+72			6.18	102.355 ✓
4+97			6.110	102.425 ✓
5+22			6.040	102.495 ✓
5+47		July 18	5.970 ✓	102.565 ✓
Hyd BM 2.070	108.120			106.05
97			5.695	102.425
22			5.635	102.485
5+47			5.555	102.565 ✓
5+72		July 19	5.480 ✓	102.640 ✓
BM Hyd. 2.31	108.360 ✓			106.05
5+47			5.820	102.540 ✓
5+72 Rise.			5.735	102.625 ✓
5+97				103.330 Rise
6+32				

To 7. P. 74.

6.76 95.04 Actual Elev. Top of Tile. 95.01 Plan.

Y 398 N.

6.92 95.225 Actual Elev. Top of Tile. 95.235 Should be

225
95.460

6.92 95.500 95.4608 should be

95.535 " "

103.50

2.475
2.620
83

4.57 fm window
97.68 Top of tile in
136 mm

Sta. chains.	Bearing	Dist. chains.
35+65 Pl.		
	S 22° E	1.57
34+08 Pl.		
	S 37° W	2.86
31+22 Pl.		
	W 13° E	8.22
23+00		
	S 88° W	5.00
18+00 Pl.		
	S 88° W	3.00
15+00 Pl.		
	N 58° W	2.68
12+32 Pl.		
	N 56° W	4.84
7+48 Pl.		
	N 167° W	2.29
5+19 Pl.		
	N 56° W	5.19
0+00		

60.00 P.A.

* Following contour
 12' wide
 73° E. of S. line. Bctm. 25
 Cultivated 26
 Leave Line. T 145 P 30

90.00 P.A.

End of chain
 90 on 50 side

To Schief (at head)
 Grubbing, 50.00 P.A.
 off trail
 2 miles to track.
 Clear add. 10'
 Grub in 5' 15" Pa.
 and grade small
 Fills in few places.

Sta. 32+78 Feet.
 * 0+00 = End of Schief
 From trail
 From S. E. West of center
 1300 ft.

June 28-35

chains
sta.

75+39PI

S54°N. 2.30

73+09PI

S85°30'W. 31.27

57+00

S85°30'W.

41+82PI

S27°W. 1.59

40+23PI

S06°E 1.77

38+46PI

S33°45'E 2.81

35+65PI

S22°E

400.

Schuy PI. 157+60

Pine Center of Line

Grubbed & cleared
12' wide.

opened up line.

Schuy PI.
130+98

600 P.D.

73 04
41 32
31 24
3 06
18 06
063 1/2 W

151+62
130+45
20.17

106+90P1 = Sta. 145+48 Ft. P.I. $\frac{S 26}{400} \frac{S 35}{35}$ T145N, P3 ^{100'}
S. 45E: 60 FT.

S. 44°30'W 11.66

153+17 From West
95+24 P.I. = P.I. 153+19-02

S 12° E 9.11

91+13 P.I.

89+75 cul.

86+50 cul.

S 08° W. 13.13

80+00

78+00 P.I.

S 21° W. 2.61

75+39 P.I.

* P.I. from West

←→ Place cul 12' (?)

←→ Place 15' cul.
P. 17-50' x 1'

manhole

* Low. 20W Grade higher
500 P.B.
good Bottom

26+02 Pl
N33°30'E 162

29+40 Pl
N17°E 356

20+89 Pl
N08°30'E 451

16+33 Pl
N32°30'E 302

13+31 Pl = (Pl. 98+73)
N14°E 241

10+90 Pl
N25°E 235

8+55 Pl
N10°W 162

6+93 Pl

N21°15'W 540

1+53 Pl
N48°W 92

0+61 Pl

N02°30'W 61

0+00

110+87
4873
1214

⇒ T. 15 Cor.

0.11
E

T.T. # 4515
Sec. Line betw. Secs 25-26

T. 145 R. 30

July 1st 1938

J. A. G. & Sons
Cary and Kennedy

* Pl. 12' So. of 1/4 line
1167° E. of 1/4 cor
S. 26 108° 11' 45" R. 30

Sta.

Feet

51+77 Pl

N 02° 30' E. 227

49+50 Pl = (61+68)

N 22° E. 202

47+48 Pl

N 10° 30' W. 261

44+87 Pl

N 19° 30' E. 749

43+38 Pl = (67+89)

N 16° 30' W. 107

42+31 Pl = (68+91+10)

N 11° 45' W. 298

39+33 Pl

N 17° E. 173

37+60 Pl = (73+63 Pl)

N 31° 45' E. 567

32+75 - cont.

31+93 Pl

N 36° 30' E. 71

31+22 Pl

N 24° 15' E. 234

28+88 Pl

28+73 see Line E 4 W.

N 24° E. 286

26+02 Pl

N 33° 30' E.

43+38 --- 1/16 time (?)

= cont. 15"

$$\frac{3+10}{46 \text{ sec.}}$$

Sta. Bearing - Dist.

77+35 Pl.

N06° W. 201

75+34 Pl.

North, 200

73+34 Pl. = (37+63)

73+06 cont.

= R. - 15" cont.

N.39° E. 365

69+69 Pl.

N28°45' E 207

67+62 Pl.

N.19° E. 444

63+18 Pl.

N.07°15' E. 61

62+57 Pl.

N05°30' W. 619

56+38 Pl.

N03° E. 296

53+42 Pl.

N11°15' W. 165

51+77 Pl.

N02°30' E

old camp.

104+58

102+00

981° E. 658

98+00 Pl.

N 59° 30' E. 190

96+10 Pl. = (14+75)

N 89° 30' E. 230

93+80 Pl.

N 79° 30' E. 370

90+10 Pl.

989° 30' E. 129

88+81 Pl.

968° 30' E. 201

86+80 Pl.

N 89° E. 90

85+90 Pl. = (25+00)

N 48° 30' E. 116

84+74 Pl.

N 22° 30' E. 84

81+90 Pl.

N 03° 30' E. 133

80+51 Pl.

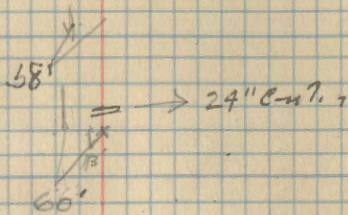
N 17° E. 156

79+01 Pl.

N. 17° W. 166

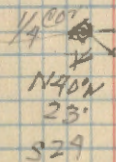
77+35 Pl.

56
13
43



1st try with C. & G. method.
Turnpike only.
no grade needed

513



T/45R30

110+76 S-Shoulder of U.S. No. 2.

N00° E. 107

109+69 P1. = (1+26)

N22° E. 196

107+73 P1. = (3+22)

N55° E. 184

105+89 P1.

105+60 - G.N. Ry.

N17° E. 61

105+28 P1. (22)

N80° E. 70

104+58 P1.

104+98 - 300 Ry

~~104~~ - G.N. Ry.

Head Quarters - Sawcut July 22-35
 1909, 1910

Sta.	+ H.I.	Elev.
Hyd BM 231	108.360	106.05
5+77		5.820 102.54
5+72		5.768 102.592
		5.738 102.625
5+72 Pipe		4.885 103.475
5+97		4.815 103.545
6+22	July 22-35	4.745 103.675
BM Hyd 282	108.870	106.05
5+72		5.395 103.475
5+97		5.325 103.545
6+22		5.255 103.615
6+47		5.185 103.685
6+72	July 23-35	5.115 103.755
BM Hyd 2810	108.860	106.05
6+22		5.250 103.610
6+47		5.175 103.685
6+72		5.105 103.755
6+97	July 24-35	5.035 103.825
BM Hyd 2.765	108.815	106.050
6+72		5.060 103.755
6+97		4.990 103.825
7+22		4.920 103.895
7+47	July 25-35	4.850 103.965
BM 2.78	108.830	106.050
BM Top Nat. 2.70		106.130
6+97		5.010 103.820
7+22		4.990 103.890
7+47	July 26-35	4.865 103.965

SEA 3 length shell
 7.75

95.795 Actual Elev. Top of tile. 95.766 Shoulder

Sta 6+00 "y" South
 " 6+02 "y" North

95.935 Actual Elev. Top of tile. 95.971 " "
 96.005 95.985 " "

Gal. Iron water pipe
 flush with top of tile
 at 6+68

96.215 Actual Elev. Top of tile. 96.210 " "

17+14: Top of Water pipe
 95.75
 15 hrs - 2 Men.
 Man Hole 7+06 center
 3 1/2" inside dig in bottom.
 8.50 bricks about.
 26 in each layer. 8' deep



Headquarter Sewer.
July 29-35

Sta	H	1	105	Ev.
BM. Hyd. 3055	109.105			106.050
6+97			5.305	103.805
7+22			5.225	103.885
7+47			6.150	103.955
7+72	July 29-35		5.080	104.025
BM. L. Pole			4.575 ^{5.665}	104.535
BM. Hyd. 2965	109.015			106.050
7+47			5.060	103.955
7+72			4.985	104.030
7+97			4.915	104.100
8+22	July 30-35		4.840	104.175
BM. L. Pole			4.980	104.535
BM. L. Pole 4.605	109.140			104.535
7+72			5.140	104.030
7+97			5.040	104.100
8+22			4.965	104.175
8+47	July 31-35		4.890	104.250
8+72			4.815	104.325
BM. L. Pole New.			6065	103.075
BM. L. P. 4.590	109.125			104.535
8+22			4.950	104.175
8+47			4.880	104.245
8+72			4.805	104.320
8+97	Aug. 1-35		4.730	104.395

SPIR in L. Pole Sta. 8+80 absent.

96.350 Actual Elev. Top of File

should be
96.360

96
V-7+90 N.
" 7+92 S.

96.575 Actual Elev. Top of File.

96.585

Sta.	+ H I.	=
B.M.L.P. 4490	109.025	104.535
8+47		4.775 ✓ 104.250 ✓
8+72		4.700 ✓ 104.325 ✓
8+97		4.625 ✓ 104.700 ✓
9+22	Aug. 2nd	4.550 ✓ 104.475 ✓
B.M.L.P. New	5.950	103.075 ✓
B.M.L.P. old 4605	109.140	104.535
8+72		4.820 109.320
8+97		4.745 109.395
9+22	Aug 5-35	4.670 104.970
9+22	Bottom of arch	3.365 103.755
B.M.L.P. old	5.645 108.720	103.075
9+22	4.26	4.975 103.745 ✓
9+47		4.900 103.820 ✓
9+72	-20 center	4.820 103.900 ✓
B.M. Arch	Aug 5-35 3.605	105.115 ✓
B.M.L.P. New 5560	108.635	103.075
8+97		4.250 104.385
9+22		4.175 104.460
9+22	under 2x4	4.890 103.745
9+47		4.815 103.820
9+72	-20 center	4.735 103.900 ✓
9+72	under 2x4	5.725 102.910 ✓
9+97		5.650 102.985 ✓
10+22		5.575 103.060 ✓
10+47	Aug 6-35	5.500 103.135 ✓
B.M. Top Stone	3.525	105.110

Sta. 8+92 Y. South. ✓
6"

715" Shutter Stalls.

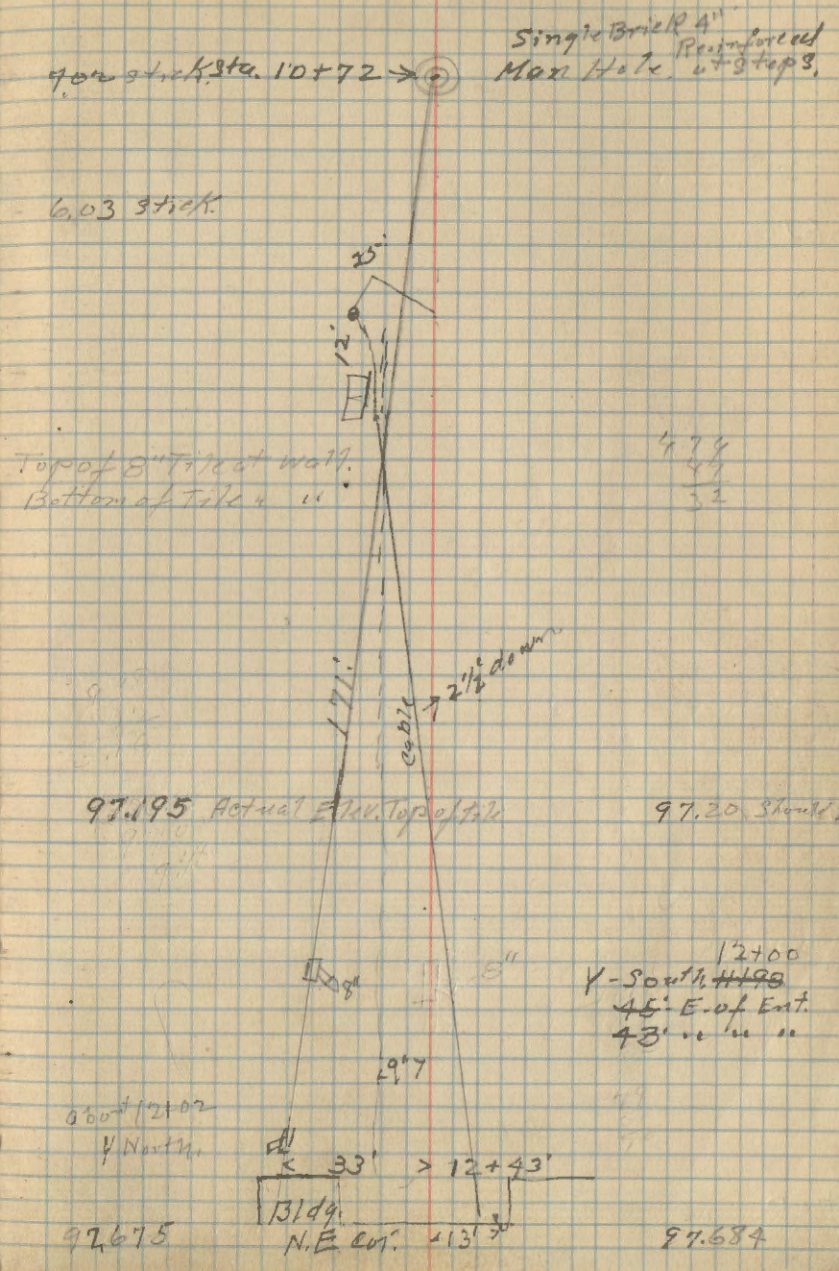
96.865 Actual Elev. top of Arch. 96.885
B.M. on Highest Stone 6" S.W. of North Center Post Arch.

702 Sta. 196.880 Actual Elev. of Top of Arch. 96.885

9+68 Y. North.
9+70 Y. South.
6"

6.5
5.0
6.5
B.M. 6" S.W. of N. Center Post of Arch. Highest point of Stone.

Sta.	H. I.	Elv.
BM. L.P. 5.630	108.705	103.075
9+47		4.880 ✓ 103.825 ✓
9+72 Top.		4.805 ✓ 103.900 ✓
9+72 Bottom.		5.810 102.895
9+97		5.725 102.980
10+22		5.645 103.060
10+47 Top of Board.		5.580 ✓ 103.125
10+47 Bottom of 2x4		6.530 ✓ 102.175
10+77		6.435 102.270
BM Arch. 1.370	106.980	3.595 ✓ 105.110 ✓
		97.70
		948 97.00 ✓
BM L.P. 5.910	106.985	103.075
BM Arch. 1.860	106.970	105.110
9+97		3.990 102.980 ✓
10+22		3.920 103.050
10+47 Top.		3.850 103.120
10+47 Bottom.		4.795 102.175 ✓
10+77	Aug 8-35	4.695 ✓ 102.275 ✓
11+02		4.620 ✓ 102.350 ✓
BM Arch. 1.635	106.745 ✓	105.110
10+77	1.815	4.470 ✓ 102.275
11+02	1.80	4.395 ✓ 102.350
11+27		4.360 4.320 ✓ 102.425
11+52		4.935 4.295 ✓ 102.500
11+77		4.360 4.170 ✓ 102.575
12+02		4.280 4.095 ✓ 102.650
12+38		4.176 3.990 ✓ 102.755



95785

Lake View Road

66+00

14+74

0+00

95785
50' Radius 150' Radius

curve Rt. westerly

*1/2 con. #9

18' on some curves

< 16' >

34+30 # 9518.

Lake 13 cut off

103+00

27+00

7+00

2+00

Cuba - Art. 66 -
L.A. States. 17 1/2 Ave.

17'

14'

14'

over Swamp
Hand 2 of 2 ch
+ 9 m 7 (P)



West

41=43 - W. Pine
90 So. 24'

* at 31 90 15' So

N 33° W

* 23+00 PT.

Tr. Tract 494

→ 32+26 P.I. on 1/4 line

200' N 60° 30' W
P. 28/10-7
160' W

168' ✓ 26+75 P.I.

100' 24+25 C.P. 10'

100' 23+91 P.I.

✓ 33' P.I.

* 18+00 end of line

120' P.I.

N. 05° 00' E 55'

Sta.	Course	Log Cos.	Log Sin.	N	E	W
0	1800					
18	West				1800	
846	S. 60° 45' W	9.688972 2.927370 2.616942	9.940763 2.927370 2.868133	4134	738	
26+46						
288	N. 70° W	9.534032 2.411620 1.945672	9.972986 2.411620 2.384606	88.2	2429	
29+04						
973	N. 45° W	9.849485 2.674861 2.524346	9.849485 2.674861 2.524346	3348	3348	
33+77	West	9.913365	9.758591	92	3115	
53+12 Pl.					21.85	
3720	N. 35° W	9.913365 3.570543 3.483908	9.758591 3.570543 3.329197	3097	2134	
90+32 Pl.						

35+17
 11 57
 33+77
 D = 150° 30'
 Δ = 430'
 R = 360'
 T = 150'
 Ex = 30'
 L.C. = 290'
 Emission
 33750 = 33+00
 33+77 Pl. Δ = 45°
 D = 22°
 Δ = 26°
 T = 58°
 R = 260'
 F = 6 1/2' 6.3'
 M.O. = 5'
 L.C. = 114'
 D = 13°
 Δ = 99°
 R = 450'
 T = 200'
 Ex = 45'
 M.O. = 3 1/2'
 L.C. = 377'
 29+04 Pl. Δ = 25°
 26+46 Pl. Δ = 49°

824.427
 49000
 D = 110° 30'
 Δ = 290'
 R = 500'
 T = 135'
 L.C. = 253'
 18+00 Δ = 29°
 T. 149 N. P. 26 W.
 494.

E.E.

W. End Out 9.00 100.00

E " " 8.30

Ditch off t. R. 9.10

" N. on East Sid. 6.50

7.10

(end out) 6.80

Ditch N. 6.70

" 7.10

" 9.00

7.60 7.00 East End

6.60

7.00 107.00 6.80

6.8

7.00 draw

T.P. 5.38 107.20 518 101.80

6.40 100.80

6.80 100.40

7.45 99.85 E.E.

8.20 W. End

6.95 N side of S. side

7.35 S. side

7.20 N "

6.30 end. But ends

8.20 S.

8.10 E

8.20

7.20

- P. 92 + 15

3.66

1.83

88.42

90.32 PL

Change 45 Left

45 70 + 100

30 68 + 100

25 63

59 S start to left

53 + 12 PJ

57 + 12 PJ

TOT Trail #994

T149 P26

Gov. A. Tes

1/4 corner betw 24-30

w. P. 11.8" S 33" W. 48

" " 12" S 87" W - 161.

a + 69.00 Enter Tam. Survey

Sta	H 1	H 2	ELV.
BM Top of water at Road	4.33	104.33	100.00
Top of Road		2.50	103.83
TP	5.14	104.22	99.08
TP	4.95	103.89	98.89
TP		4.90	98.94

W. L. W.	7.00		
		6.60	
	8.01		
	7.45		
	6.85		
	5.69		

BM	Water at Road	ELV.	cut.
BM	5.58	105.58	100.00
0+50			4.65
1+00			5.40
1+50			5.95
2+00 TP	9.74	104.46	5.86
2+50			4.75
3+00			5.20

off take Ditch
Swamp Sec. 24
T144 (13)
July 25-30 Bar M. Rog
Trench Drive

off take Ditch
Lakes 13 - cut off - Low S. Sew.
to close to S.R.P. Road.
July 22-30
1.41
2.26
1.32

250' off take with tower the water
on the South side 1 ft.
and on North " 1.33 ft.
Place cut vert 15"

Strawberry Point Lot 1 - Mrs. Thomas.
60'

Lot 1 - Mrs. Thomas

64' x 67' x 69' x 69' x 69' x 5'

x 6.25' x 69' 25' x 6.8' x 5.9'

top of w.

x 6.9' x 6.5' 25' x 6.8' 25' 5.7'

x 6.0' 25' x 6.3' x 6.5' x 5.5'

x 5.9' x 5.2' x 6.0' x 5.4'

50' x 20' x 1'

Filling area of Lot

1.8 mile to
N.P.
Road
1/4 mile
to N.P.

100'

Sewer Grades 0.5 below top of tile

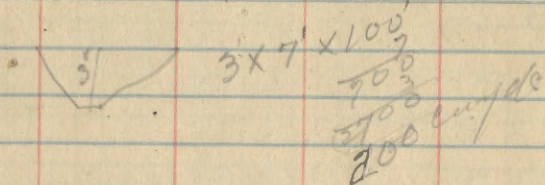
+S	H.I.	-S	Elev.	Gd. Rd.
			101.65	
			93.47	0+00
			93.62	0+50
			93.70	0+75
1.39	103.04		93.77	1+00
			93.85	9.19 1+25
			93.92	9.12 1+50
			94.00	9.04 1+75
1.68	103.33		94.07	2+00
			94.15	9.18 2+25
3.93	105.58		94.37	11.21 3+00
3.87	105.52		94.00	11.5

B.M. Spike in tele. pole.

El. top sewer at 2+00 =	94.72
" " " " 3+40	95.14
" flow line "	94.39
" bot conc	94.00

El. bottom of concrete of manhole

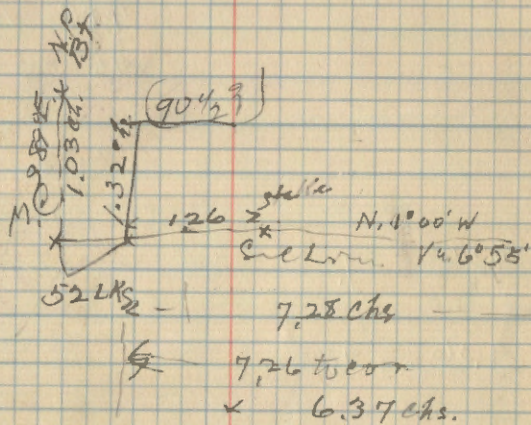
Norway Beach
Ditches on both sides of
old R.R. Grade.



low camp site to north of
Ditch about 100'
Circle, 25' dia.
1' in center.

50 ex. yds. So end of Ojeboway
Campgrounds

L.O.T. 1 - Ojeboway
500 yds.
a thin soil.
do not recommend



Va 855
N = 10 E.

7.28
91
6.37

Check Levels for Small Level

M.H. BM. 336	103.97		100.61
BM. T. P. 462	106.27	2.37	101.65
			101.66
BM. Hyd.		21	106.09
			106.06
N. end		29.95	0.84
3 "	Test small level	6.915	4.31
	July 19.	3.470	3.970

W. P.	1100	1070	
			1.45
			105.55
	1190	10490	1.00
			106.00
			9.00
			98.90
			950

S. end 7.36 7.99

N. End 4.36 4.99

take BM. Hyd. 106.05

108.635
 96.475

 12.160 to Bottom of file
 101.65

706
 366

 1072
 30

 32160

93.97
 3215

 97.185

93.9777
 856.475

 94.82

43.40
 0.85

 370
 3

 1026

9397
 102

 9499

4130
 075

 340
 725

 347.25

7 30 3/0
 100 x 100

70
 3

 210

9502
 2

 9505