Field Book # 43

FB43

ENGINEERS

FIELD BOOK

No. 493

ATZ

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and
SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning
Roadway 16 feet wide. Side Slopes 1 on 1.
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line
slope stake point? Ans. from Table 30.6. For same slopes but other widths
d, correct above figures by one-half difference in width of roadbed; thus in
above, for 20 ft. roadbed distance will be 30.6+(20—16)÷2 or 2 ft. added to
For slopes of 1 on 1½ see inside of back cover.

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Indexed
Complete

F. C. FREAR

M. B. GERMOND

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Survey for Al. Creasons Ditch in (T. 29-8) 31

Field Notes

North Bet. Decs 7 & 8

40.00 1/4 Cor

W.O. 18" N. 44° W. 45 Lks.

W.O. 40" N. 60° E. 59 "

80.00 - Cor. 5-6-7-8

a. Fir. 10" N. 82° W. 5 Lks.

" 9" N. 33° W. 23 "

" 12" N. 34° E. 36 "

Chinkapin 12" N. 34° E. 74 "

N. 88-42 E bet. 6 & 7.

42.72 1/4 Cor.

a. Cedar 12" N. 20° W. 18 Lks

Fir 12" N. 75° E. 7 "

Ed Richards Survey

(T. 25 - R. 6)

Fd.

N. 89-45 W. On line bet. 22 & 27
20.50 Trail N. E.
38.00 Leave Prairie enter brush
39.81 Det ¼ Cor.
a.w.o. 12" N. 75° W. 48 lks } D. 25° E. to House
a.y.o. 30" D. 3¼° W. 80 "
46.00 Calapooia 60 lk. Wide D. W.
51.50 Leave low bottom
58.00 Leave Prairie
61.10 Calapooia 75 lks N. 70° W.
66.50 Leave Creek D. 20° W.
67.00 Leave Bottom
79.62 Cor. 21-22-27-28 from which
an Ash 15" N. 42¾° E. 380 lks.
" " 6" D. 52¼° W. 492 "

Cor. Recs. 22-23-26-27
an Ash 14" D. 1½° E. 152 lks
" " 18" D. 89½° W. 894 "

Field Notes

(T. 25-6) 32 2

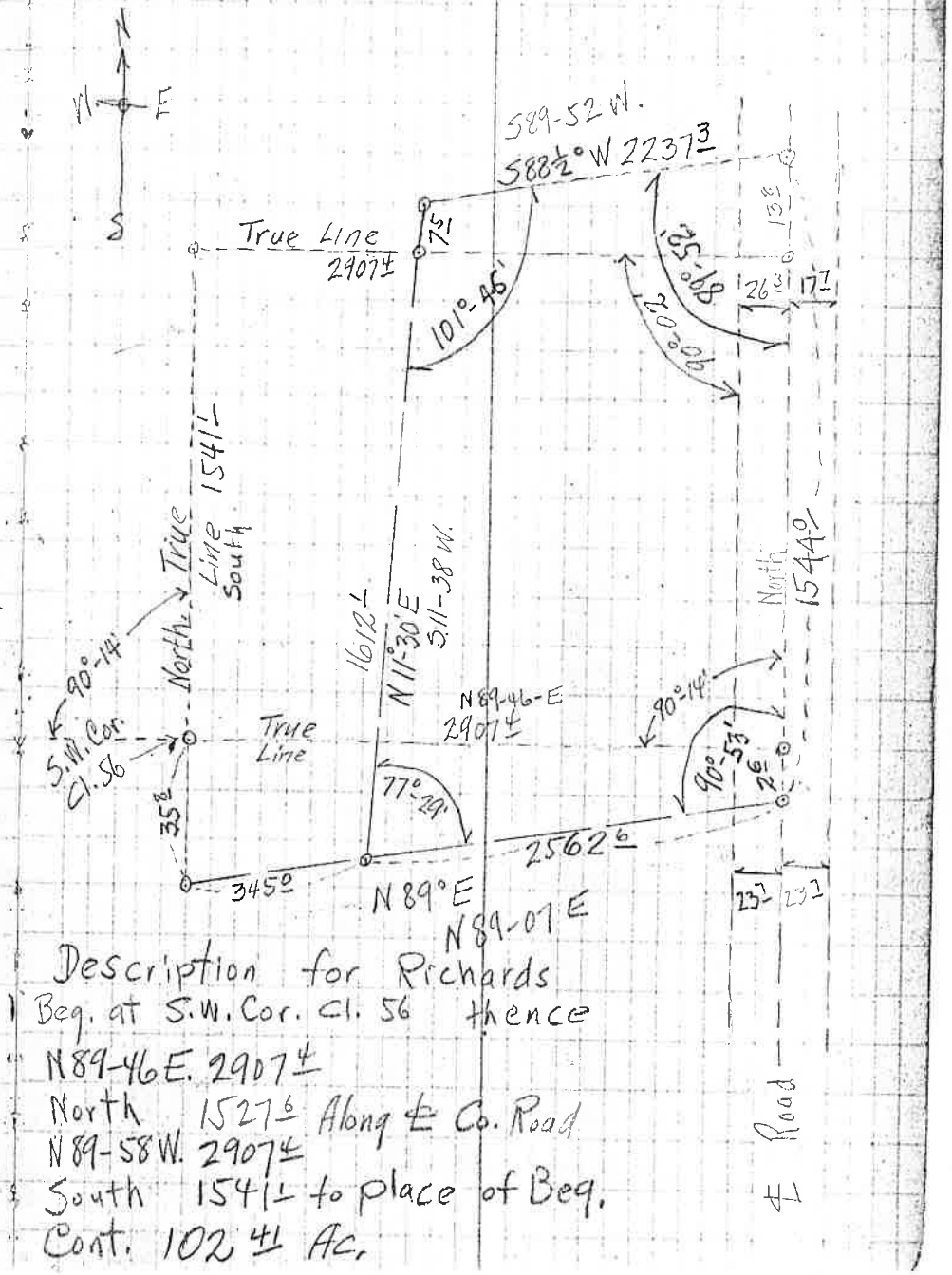
David Hurst Cl. No 56
Cont. 320.28 acres
Beg. at D. W. Cor. Cl. 56 & E. bdy Cl. 55
Det Post from which
a.w.o. 20" N. 16° W. 175 lks. Found
a.w.o. 18" N. 31° W. 173 " Stump
North On W. Bdy Cl. 56 & E. bdy Cl. 55
0.74 N. E. Cor. Cl. 55 & D. E. Cl. 44
13.74 Calapooia 200 lks
20.28 Rec. line bet 22 & 27
6.93 West of ¼ Post
21.74 Calapooia 150 lk C. D. E.
30.74 " 300 " C S.
35.74 " 100 " C S. W.
62.42 to N. E. Cor Cl. 44
73.29 to N. W. Cor Cl. 56 on
D. Bdy. E. 50 Det Post
a.w.o. 18" N. 15° E. 45 lk
Raised Mound.
East On N. Bdy Cl. 56 & D. E. bdy Cl. 50
16.20 Calapooia 96 lks C D.
34.20 to D. E. Cor Cl. 50
43.70 to N. E. " Cl. 56 Det Post
deposited Stone 6x4 Raised Mound

Ed. Richards Survey

South On E. Bdy Cl. 56
22.84 to N.W. Cor Cl. 57
53.01 Intersect line bet. 22 & 27
2.63 ch. West of Dec. Cor.
73.29 to D.E. Cor. Cl 56 Set post
deposited stone 7x4 Raised
Mound with tree
WEST on true D. Bdy Cl. 56
43.70 to D.W. Cor. 56 and Beg.

D.W. Cor. Cl. 56 Found 2 trees
N. 16° W. 175 Lks = 115½ ft. W.O. tied not cut out
N. 21° W. 173 " = 114½ " W.O. Stump Rotted
N 57¼° E. 81½ ft. 40" W.O. Marked Cl. 56 (C.S.B.T.)
Set ¾" x 30" Iron Bar. for Corner

Aug. 10-17
Frear ℄
Ed. Richards ch
Henry ch.



Description for Richards
Beg. at S.W. Cor. Cl. 56 thence
N89-46 E. 2907±
North 1527± Along ℄ Co. Road
N89-58 W. 2907±
South 1541± to place of Beg.
Cont. 102 41 Ac.

Survey for C. I. Leavengood. (T. 29-5)

S- 7½' E. Bet. Sec's 33 & 34
40.00. Set ¼ Cor.
a. 7 in 36" D. 50° E. 9 Lks.
" 18" D. 83¾ E. 186 "

Cor. 27-28-33-34
a.y.O. 14" D. 30° W. 38 Lks.
a.W.O. 14" N. 33½° W. 82 "
a.W.O. 13" N. 13° E. 44 "
a.W.O. 15" S. 51° E. 156 "

Cor. 3-4-33-34
a.W.O. 10"- D. 70° E. 9 Lks.
" " " 10" N. 45° E. 20 "
" 10" D. 55° W. 72 "
" 8" N. 40° W. 30 "

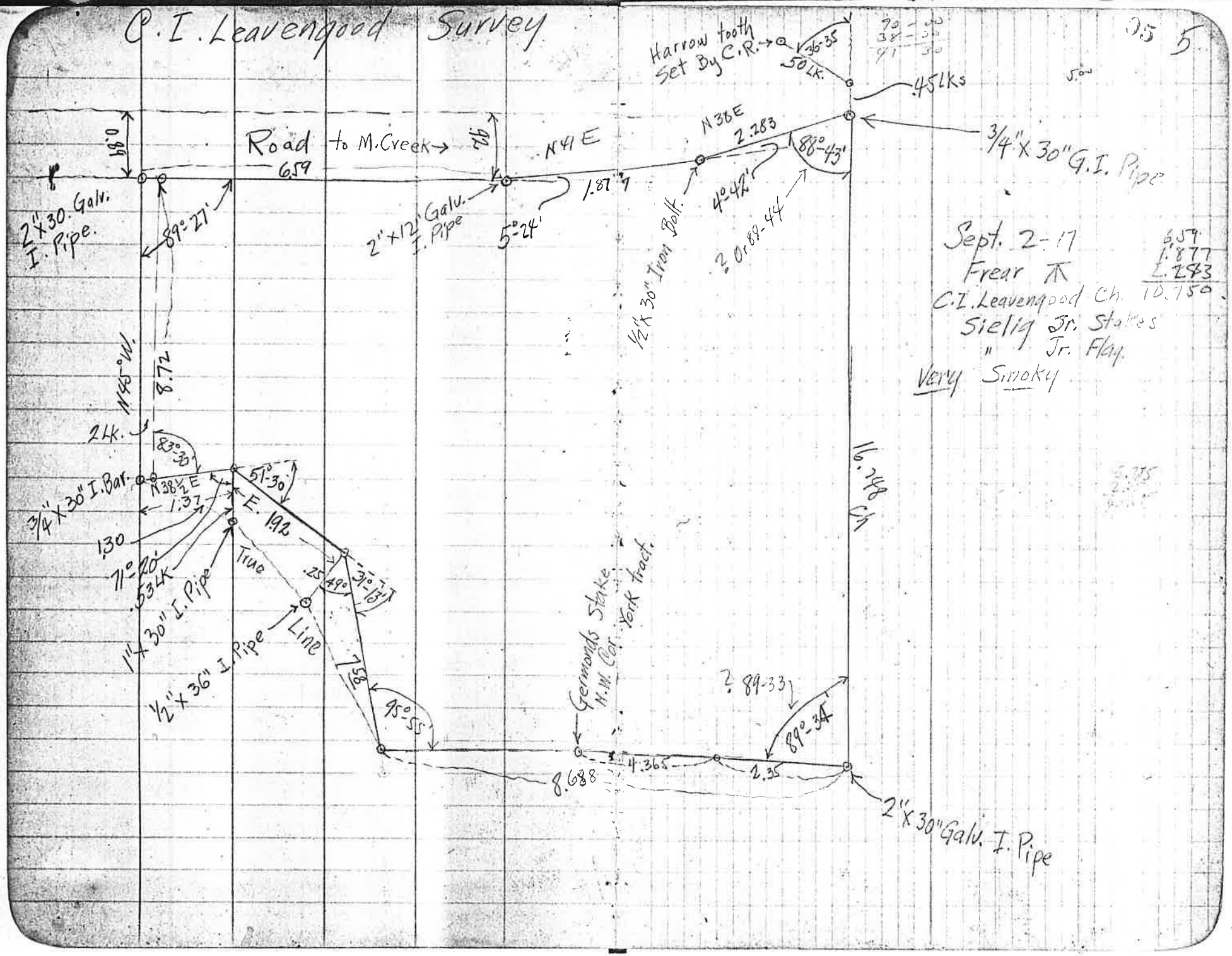
John Adams Cl. 41

East. 14.00 Set Post at N. E. Cor.
a.W.O. 18" N. 84° W. 220 Lks
North 43.00 Set Post
a.B.O. 9" D. 50° W. 32 Lks

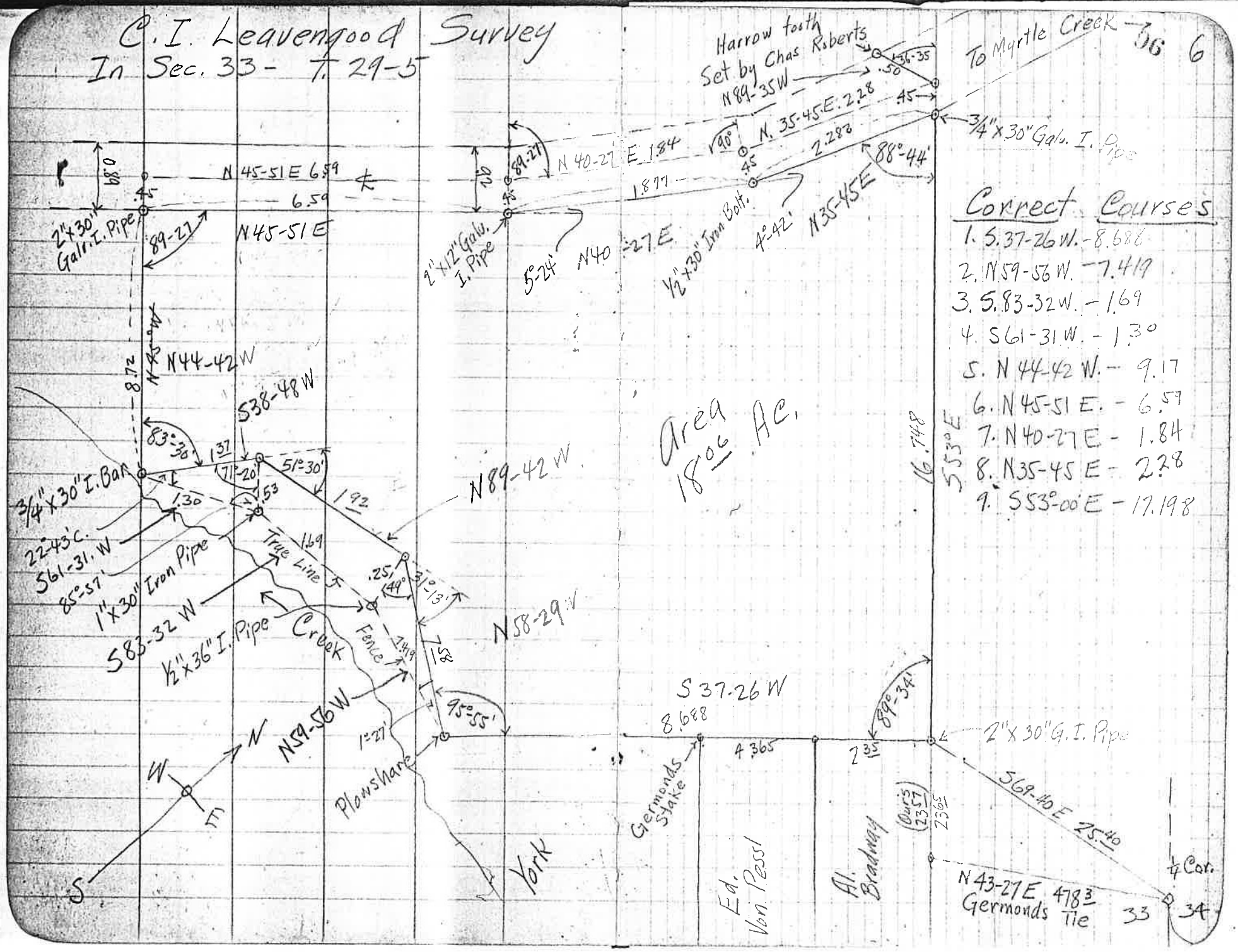
Henry Adams Cl. 42.

Began at N. W. Cor.
East 64.00 Set Stone ... Mound &c.
South 50.00 Ch. Set Post
a.B.O. 16" N. 53½° W. 101 Lks

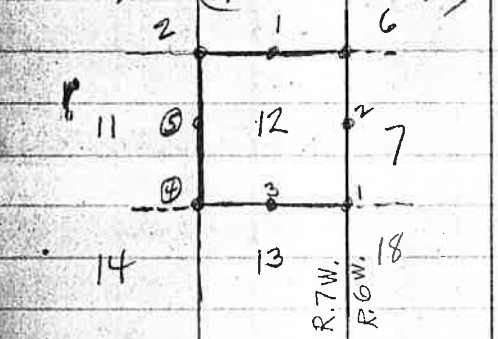
C. I. Leavengood Survey



C. I. Leavengood Survey
In Sec. 33 - T. 29-5



Notes on H.S. Galligan's Survey in (T. 27-7)



Cor. ① - to 1 & 18.

a.y.o.	13"	S. 61½° E.	31 Lks.
" "	11"	S. 60½° W.	31 "
" "	13"	N. 35° W.	45 "
" "	9"	N. 10½° E.	51 "

② ¼ Cor-2 Bet. 1 & 12

a.y.o.	10"	S. 38° E.	29 Lks
"	12"	S. 54½° W.	30 "

Full Notes

③ ¼ Cor. Bet. Sec's. 12 & 13

a.w.o.	24"	S. 70° E.	154 Lks.
"	9"	N. 8° W.	181 "

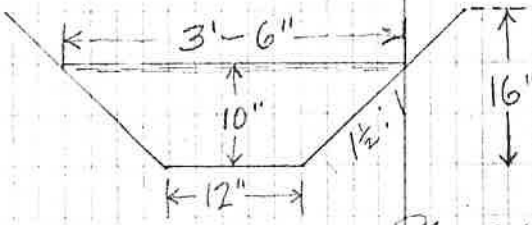
④ Cor. 11-12-13-14

Ash. 12"	N. 12° E.	87 Lk.	a.w.o. 9" S. 21° W. 2.12 Lk
B.O. 30"	N. 84° W.	10.15 Lk	
W.O. 15"	S. 7° E.	2.89 "	

⑤ ¼ Cor. Bet. Sec's 1 & 12

a.b.o.	30"	S. 61° W.	218 Lk
"	12"	S. 20° E.	426 "

027



Area 1.87 □ft.

Gr. 0.12' per 100 ft.

Section of Ditch
Vel. = .8 ft per Sec.
Capacity = 1.5 Cu. ft. Sec.

Chas Gilligan

Levels for Gallaan Ditch.

Sta.	+	↑	−	R	Elev
Pt. #1	12 22	112 22			100 00
" #1				138	
				38	1089
B.M.				210	11062
				50	1071
					1080
					106 40
0+00					107 00
0+00				405	10867
3+00				608	10664
T.P.			497		10775
	4 31	112 06			
6+00				578	10628
10+00				626	10580
T.P.			569		10637
	2 91	109 28			
12+00				372	10556
14+00				396	−017
14+00 T.P.			313		10615

"P" Line

W.S. in Creek

Bottom Creek

Top. Bank

Nail in W.O. on N. Bank

in Old Course / probable Crest of Dam

Bottom Ditch at Pt. 1.

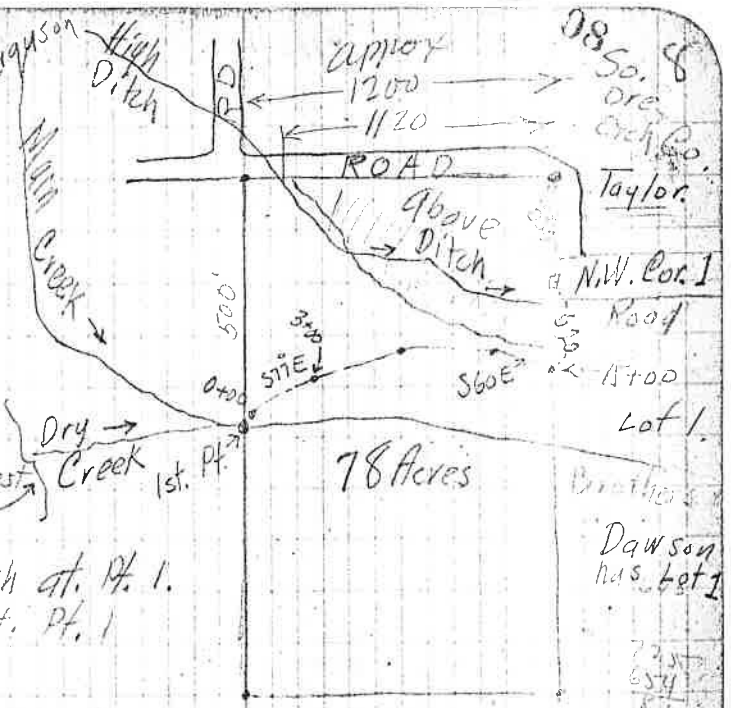
Top Ditch at Pt. 1

C. 17

Top Ditch 1' in Grooway

On 3+00

End.



Survey of John A. Fryer Cl. 57 for Chas Hedden in (T. 22-8) 9

Sta.	Dist.	Lt.	Rt.	Mag
30+47 ±				
	52 ±			
29+95 ±				
	37 ±			
28+95 ±				
	75 ±			
28+57 ±				
27+82				
27+01 Off.	4Lk. E			
25+21 Off.	4Lk W.			
24+47 Off.	4Lk W.			
22+02				
18+70				
15+90				South
14+20				
12+41				
11+08 Off.				
8+86				
8+86				
7+05				
5+31 Off.				
3+77				
				South
0+00 = N.W. Cor. Cl. 57 on S Line of Cl. 49 - #1				

1.00 - (41°00')

1.00 - (35°-15')

.81664

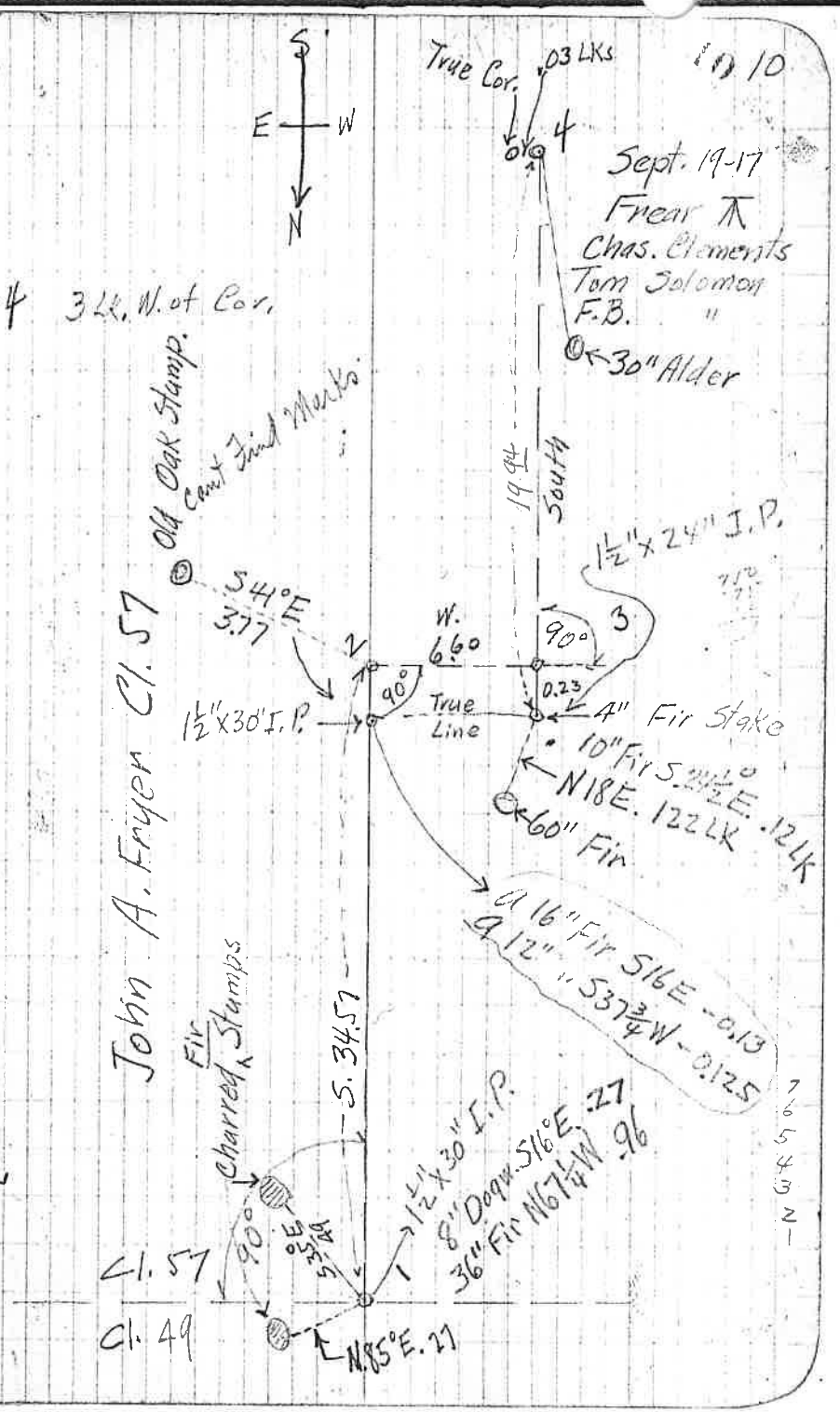
Tue. Sept. 18-17
Frear
Chas. Hedden Ch.
Clements "
Toni Solomon "
~~F.S.~~

25.00
15.00
~~1.00~~
1.00
12.00

#1

John A. Fryer Cl. 57

Sta.	Dist.	Lt.	Rt.	Mag.	e.c.
1½"x 24" Iron Pipe					
a 6" W.O.			S. 83° W. –	.27 Lks	
a 12" Fir.			N. 14° W. –	30 "	
19+94 Cor. #4	from which		30" alder bears		
			N. 10° W.	112 Lks, No Marks	
17+85					
15+31					
12+48					
10+69 Off. 3Lk W.					
8+37					
7+30					
6+70					
5+16					
2+95					
1+73					
0+00 = Cor. #3					
Run South					
6+60 – I Fall .23Lk. South of Corner.					
5+88					
3+40					
1+22					
Run West			90°-00'		
34+57 Stake #2					
34+00					
31+69 - Off. 2Lk W.					
30+47 –					



Abel P. Fryer Cl. 47

Sta.	Dist.	Lt.	Rt.	Mag. C. e
18+50 Cor. #6				
16+21	2.18			
14+03				
13+26 Top Ridge				
12+58				
12+48	60			
11+98				
10+79	1.19			
8+60				
6+45				
5+09				
3+87		90°-30'		South
0+00 = Cor. #5				
13+16 #5	I fall	25 Lk. North of Corner		
12+95				
11+67				
10+87				
9+05				
7+79				
6+32				
5+43 off. 1 Lk. S.				
3+16				
2+71				West.
0+00 = #4				

→ 1½" x 30" I. Pipe found Fir Stump (N1°E. 556) Fair
An 18" Fir N.54½E. -0.67 ch.
(24°-30') 2.40 " 18" " N79½W. -0.285 ch.
Sept. 20-17
Frear π
Chas. Clements
Tom. Solomon
F.B. "
Kid

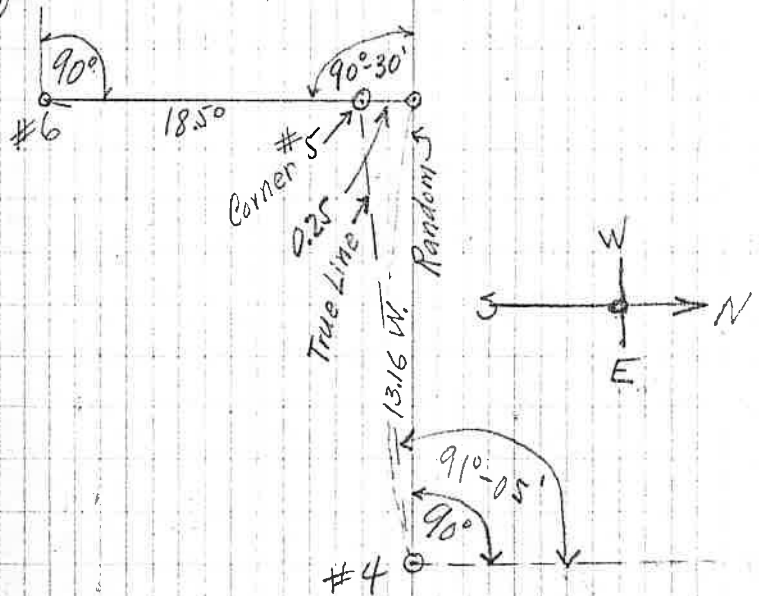
(32°-30') 71

(38°-00) 1.52 = 1.19 ch.

11 11

5

→ 1½" x 24" I. Pipe from 24" Fir Bear's N.51°W - 13 Lks.



Abel Frear Cl. 47

Sta.	Dist.	Lt.	Rt.	Mag.	C. E.
2+90					
1+81					
0+00 = Cor #8			90°-00'	S89½ W	
25+60	I Fall	5 LKs. E. of Corner # 8			
25+47					
23+02					
21+05					
16+50					
15+50 Approx					
12+87 On Bk. Cr.					
11+27 Off. 3 LK. E					
8+76					
5+98				S00¾E	
3+03				S00¼E	
0+00 = Sec. Cor 8-9-16-17			90°-00'		
11+83	I Fall .43	LK. N. of Sec. Cor. # 1			
10+24					
9+06					
8+44				S89½W	
4+47					
3+63			90°-00'	West.	
0+00 = Cor. #6					
= 18+50					

12 12

Sept. 21-17
Cloudy
Frear
Chas. Clements
F. B. Solomon

+30°-1°

9 Mark → 1½"×40" Pipe
a 12" W.O. Bears N82°E 90 LKs
a 12" W.O. Bears N. 71½°E 81 "

10
9
7
6
5
4 3

Found → 1½"×40" Pipe with Union on End
4 Trees I Remark Set 5"×5" Fir Stake
34" Fir Bears N. 31¼° W. — 48 LKs

4 3 2

+(30°-30') 4.22

S. H. Allensworth Cl. 46

Sta.	Dist.	Lt.	Rt.	Mag. CC.
42+18	Cor. # 10	Found Oak down ct. also alder was		
	0.68		23°-00'	S21-45W
41+50				
40+98				
34+68				
27+37				
22+30				
15+33				S1°E
14+49				
13+13	.73			
12+40	.76			
11+64	1.56			
10+08				
8+66				
6+39				S00¾E
4+75				
3+71				
2+00		90°-00'		S00½E
0+00 = #9				

12+03 I Fall 1½ LK. N. of Old Cor Stake #9
7+36 S89W.
6+23
4+36 dupe
2+90

½" + 24" G.I. Pipe

460 Lks.

a 20" Fir Beau
N. 9° W. 5 Lks

a 30" Fir Beau
S. 19¼° W. — 10 Lks

Rainy
Sept. 23-17
Frear
Clements
Solomon
Hedden

Sept. 22-17
Showers
Frear
Chas. Clements 1
F. B. Solomon 1
Chas. Hedden ½

16
15
14
13
11
9
8
7
6
5
4
3
2
1

(+32°-52') .87
(+40° - 1.00)
(+38°-25') 2.00

9 Remark — 1½ x 30" Pipe
an 18" Fir D. 62° E. 47 Lks
a 10" " D. 2½° E. 31 "

3
2
1

John Gardner Cl. 51

Sta.	Dist.	Lt.	Rt.	Mag.	C.C.
45+34	Waters Edge.				
	3.84				
41+50	Set ½"x30" I. Pipe Galv.		#12		
39+05				58°W.	
38+20	Enter Old Military Rd.				
34+58					
28+81					
27+41					
25+28					
22+01					
17+45					
15+93					
13+26				58°W.	
9+55					
4+85					
1+59		90°-00'		58°W.	
0+00 = #11					
4+50	Cor. #11 found 24" Oak		0.73°E. 375		
2+50			76°-00'	N.82°W.	
0+00 = Cor. 10					
= 42+18					

Sept. 24-17 — Sept. 25-17

Frear
C. Clements
F.B. Solomon

C.G. McNeil
Elkton

from which 24" Fir Bears S.27°E. .03 Lk
" " 18" Oak " S.69°W. .29 Lk

J.N. Hedden

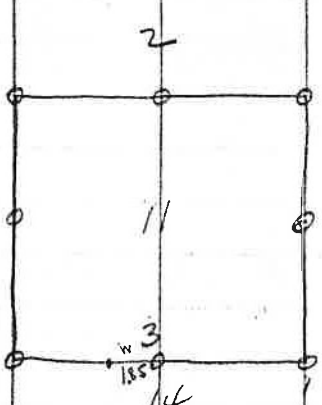
14
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1"x24" Iron Bar ⊙

From a 30" Fir N.46½ E. - 0.505 Ch.
" a 24" Fir N.42½ E. - 0.32 "

B.S. Smith Irrigation Ditch Survey Sec. 11 & 14 (T. 29-4)

Sta.	Dist.	Lt.	Rt.	Mag.	Cc.



Cor. 11-12-13-14 #1

Red fir	6" N. 35° E.	10 Lks
" "	6" N. 60° E.	7 "
" "	4" N. 5° W.	15 "
" "	8" N. 65° W.	13 "

Cor. 2 to 10-11-14-15

B.O. 8"	N. 15° E.	130 Lk
B.O. 15"	N. 45° E.	209 "
B.O. 8"	N. 80° W.	450 "
B.O. 8"	N. 20° W.	440 "

Cor. 3 1/4 Cor bet. 11 & 14

B.O. 18"	N. 37° E.	100 Lk
" 10"	N. 27° W.	84 "

Beg. at 1/4 Cor. Bet 11 & 14
Thence W. - 1.75
" N. 11-45' E. 9.30 to Pt. of Diversion

Tie Line to Pt. of Diversion = S 11°-05' W. 7.44 ch. from 1/4 Cor. Bet. Sec. 11 & 14

Sta.	B.S. +	Smith ↑	Ditch —	In Bottom R	Old Ditch Elev.	Rod Top Ditch Levee	Elev. Top	Grd Bott.	C or F Bottom	Grad. Dam	
	5 58	105 58			100 00		100 00	98 50	Water Sur. at Headgate		
				76	→		98 0		Bottom	Dam	
0+00				42	→		101 4	98 50	+2 9	✓	Sept. 27-17
0+15				41	→		101 5	98 44	+3 06	✓	Frear
0+50				49	→		100 7	98 3	+2 4	✓	Smith Rod
1+00				56	→		100 0	98 1	+1 9	✓	
1+25				385	→		101 73	98 0	+3 73		
1+25 ⊙			2 34		103 24						
	2 73	105 97									
1+25				79	98 1			98 0		X	
1+50				79	98 1	464	101 33	97 9	+3 43	+0 2	
1+75				77	98 3	41	101 87	97 8	+4 07	+0 5	
2+00				82	97 8	430	101 62	97 7	+3 92	X	
+50				88	97 2	645	99 52	97 6	+1 92	X	
3+00				101	95 9	66	99 37	97 3	+2 07	X	
3+00 ⊙			4 73		101 24					0.4	
	2 25	103 49								1	
3+25				71	96 4	50	98 5	97 2	+1 3	X	
3+50				73	96 2	41	99 4	97 1	+2 3	X	
4+00				77	95 8	51	98 4	96 9	+1 5	X	
4+50				73	96 2	48	98 7	96 7	+2 0	X	
5+00				82	95 3	53	98 2	96 5	+1 7	X	
5+50				78	95 7	48	98 7	96 3	+2 4	X	
5+50 ⊙			3 42		100 07						
	2 06	102 13									
	12.62		10.49								

Sta.	In +	Old ⊼	Ditch −	R	Ele.	Rod Top Ditch	Ele. Top	Grd. Bott.	C or F.	Bottom Grd.
6+00		102 13		6 7	95 4	4 3	97 8	96 1	+1 7	x
6+50				6 75	95 4	4 93	97 2	95 9	+1 3	x
7+00				6 8	95 3	4 7	97 4	95 7	+1 7	x
7+50				7 3	94 8	5 1	97 0	95 5	+1 5	x
7+50 ⊙			3 52		98 61					
	1 29	99 90								
8+00				5 2	94 7	2 8	97 1	95 3	+1 8	x
8+50				5 1	94 8	3 4	96 5	95 1	+1 4	x
9+00				5 6	94 3	2 75	97 15	94 9	+2 25	x
9+50				5 5	94 4	2 85	97 05	94 7	+2 35	x
10+00				5 65	94 25	3 4	96 5	94 5	+2 0	x
10+50				5 65	94 25	4 8	95 1	94 3	+0 8	x
11+00				5 8	94 1	4 4	95 5	94 1	+1 4	x
11+00 ⊙			2 78		97 12					0.4
	0 77	97 89								
11+50				4 1	93 8	1 5	96 4	93 9	+2 5	1 x
11+80				4 0	93 9	2 6	95 3	93 78	+1 52	+0 1
12+02				3 9	94 0	1 6	96 3	93 7	+2 6	+0 3
12+50				4 5	93 4	2 54	95 35	93 5	+1 85	x
13+00				4 6	93 3	2 95	94 94	93 3	+1 6	x
13+00 ⊙			1 78		96 11					
	1 54	97 65								
13+50				4 84	92 8	2 7	95 0	93 1	+1 9	x
14+00				5 0	92 7	3 14	94 51	92 9	+1 6	x
14+50				5 2	92 5	3 3	94 35	92 7	+1 7	x
	3.60		8.06							

Sta.	In +	Old ↑	Ditch −	R	Elev	R Top Ditch	Ele Top	Grd Bott	C or F	Bottom Grd.
15+00		97 65		5 5	92 2	3 7	94 0	92 5	+1 5	×
15+00 ⊙			2 06		95 59					
	0 25	95 84								
15+50				3 9	91 9	2 6	93 2	92 3	+0 9	×
16+00				3 9	91 9	1 2	94 6	92 1	+2 5	×
16+50				4 3	91 5	3 1	92 7	91 9	+0 8	×
17+00				4 1	91 7	2 8	93 0	91 7	+1 3	× −0.4
17+50				4 2	91 6	3 2	92 6	91 5	+1 1	+0 1
17+50 ⊙			2 07		93 73					
	0 96	94 73								
18+00				3 2	91 5	2 05	92 1	91 3	+1 4	+0 2
18+50				3 2	91 5	2 4	92 3	91 10 ×	+1 5	+0 4
19+00				4 23	90 5	3 0	91 7	91 0	+0 7	× −0 5 End old Ditch.
19+00 ⊙			2 33		92 40					
	1.21		6.46							−0.2

New Ditch

Sta	+	↑	—	1' Above Ditch B. R	Elev	Grade Bottom
	3 11	95 51			92 40	
19+00				3 51	92 00	91 0
19+50				3 61		90 9
20+00				3 71	91 80	90 8
20+00 ⊙			3 17		92 34	
	2 63	94 97				
20+50				3 27	91 70	90 7
21+00				3 37		
+50				3 47	91 50	90 5
21+50 ⊙			2 87		92 10	
	3 93	96 03				
22+00				4 63	91 40	90 4
+50				4 73		
23+00				4 83	91 20	
23+00 ⊙			4 03		92 00	
	6 66	98 66				
23+50				7 56	91 10	
24+00				7 66	91 00	90 00
24+50				7 76	90 90	89 90
24+50 ⊙			7 18		91 48	
	4 86	96 34				
25+00				5 54	90 8	89 8
25+50				5 64	90 7	
26				5 74	90 6	
+50				5 84	90 5	
	21.19		17.25			

On 19+00
Gra. 19+00 on 1' above bottom

Sta	New Ditch +	↑	−	1' Above R	Elev	Bott. Grade	
		96 34	4 77		91 57		
	4 79	96 36					
27+00				5 96	90 4	89 4	92 66 C. 3'-3"
+50				6 06	90 30	8	
28				6 16			
+50				6 26			
29				6 36	90 00	89 0	
+50				6 46	89 90	88 9	
			2 27		94 09		
	1 43	95 52					
30+00				5 72	89 80	88 8	
+50				5 82			
31				5 92			
+50				6 02			
32+00				6 12	89 40	88 4	
32+00			4 66		90 86		
	2 51	93 37					
32+50				4 07	89 3	88 3	
33+00				4 17	89 2		
33+00			2 51		90 86		
	5 35	96 21					
33+50				7 11	89 1	88 1	
34+00				7 21	89 0		
+50				7 31	88 90	87 9	
34+50			6 00		90 21		
	14.08		20.21				

21 20

Sta.	+	↑	−	R	Ele	Grd. Bott.
	5 79	96 00			90 21	
35+00				720	88 80	87 50
+50				730		
36				740	88 60	85 6
T.P.			5 17		90 83	
	3 95	94 78				
36+50				628	88 50	87 5
37				638	88 40	
+50				648		
38				658		
+50				668	88 10	
T.P. +50			5 71		89 07	
	6 45	95 52				
39+00				752	88 00	87 00
39+50				762		
40+00				772		
+50				782		
41+00				792	876	86 6
T.P.			8 48		87 04	
	347	90 51				
41+50				301	87 5	86 5
42				311		
+50				321		
43				331	87 2	86 2
T.P.			330		87 21	
	394	91 05				
	23.50		22.66			

Sept. 28-11
Frear
3 Smiths

Sta	+	↑	−	R	Elev.	Grd Bottom
43+50		9105		395	871	861
44				405	870	
+25				410	8695	
44+25			275		8830	
	572	9402				
44+50				712	8690	859
45				722	8680	858
+50				732		
46				742	8660	
46+00			614		8788	
	298	9086				
46+50				436	8650	855
47				446	864	
+50				456		
48				466	862	
+50				476		
49				486	8600	8500
49+00			342		8744	
	150	8894				
49+50				304	859	
50				314	858	849
+50				324		
51				334		
+50				344		
52				354		

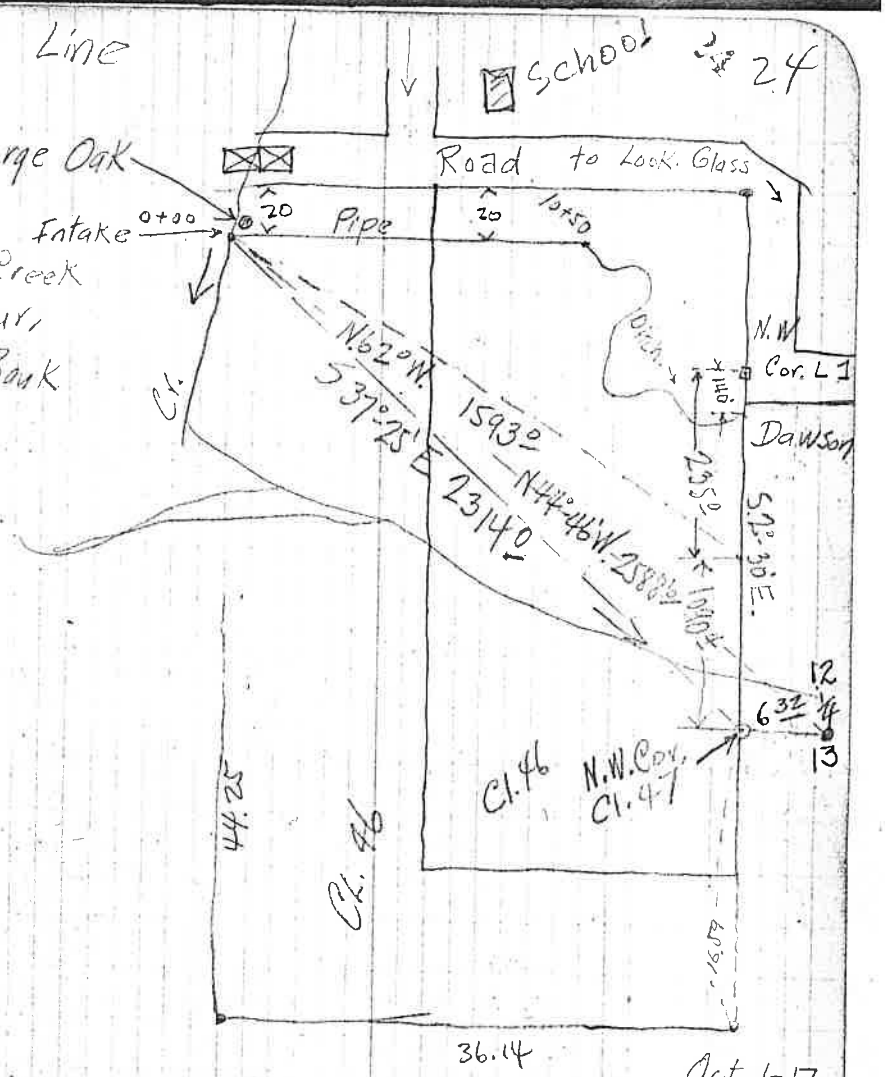
	+	⊼	—	R	Ele	Gra Bottom
52+50		88 94		3 64	85 3	84 3
53				3 74	85 2	84 2
+50				3 84		
54				3 94	85 00	84 00
54+00	⊙		2 54		86 40	
	2 41	88 81				
54+50				3 91	84 9	
55+00				4 01	84 8	
55+50				4 11		
56+00				4 21		
56+00	⊙		3 22		85 59	

-0.2

Sta.	H.S. Galligan +	H.S. Galligan ↑	Ditch —	Survey R	Survey El.
B.M.	5 83	105 83			100 00
0+00				10 5	95 3
0+00				13 0	92 8
0+04				10 5	95 3
0+10				6 5	99 3
0+50				5 0	100 8
1+00				4 7	101 1
1+50				5 3	100 5
2+00				4 9	100 9
2+50				1 5	104 3
2+50	⊙		0 91		104 92
	12 63	117 55			
3+00				11 3	106 3
3+50				9 6	108 0
4+00				8 4	109 2
4+50				7 0	110 6
5+00				4 0	113 6
5+50				1 4	116 2
5+50	⊙		0 73		116 82
	10 44	127 26			
6+00				11 3	116 0
6+50				10 6	116 7
7+00				9 5	117 8
7+50				6 4	120 9
8+00				4 0	123 8
	28.90		1.64		

Pipe Line

Nail on Large Oak W. Sur. Intake 0+00 Bott. Creek W. Sur, Top. Bank



Tie Line from Init. Pt. to ¼ Cor. Bet. 12 & 13 = N 44°-46' W. 2588 ft.

Oct. 1-17
Frear
Phil Hart
Harry Wakefield

Sta	+	↑	—	R		
8+50		127 26		1	125 6	
8+50 ⊙			0 69		126 37	
	10 42	136 79				
9+00				9 0	125 8	
9+50				6 7	130 1	
10+00				4 8	132 0	
10+50				3 3	133 5	End Pipe Line Beg. Ditch
10+50 ⊙			2 25		134 94	
				Rod 1' Above		Grd. Bottom
	4 18	138 22			133 50	132 50 = 10+50
11+00				48 2	133 4	132 40 Cut. 1 ft.
11+50				49 2	133 2	
12+00				50 2	133 2	132 2 "
+50				51 2	133 1	"
13				5 22	133 0	"
+50				5 32	132 90	131 9 "
13+50 ⊙			4 44		133 78	
	5 18	138 96				
14+00				6 16	132 8	131 8 "
14+50				6 26	132 7	"
15+00				6 36	132 60	131 6 "
15+00 ⊙			5 71		133 25	-0.2
	3 86	137 11				
15+50				4 61	132 5	131 5 "
16+00				4 71	132 4	
	23.64		13.79			

	+	↑	−	1' Above R	Elev	Gra. Bottom	
16+50		137 11		4 81	132 30	131 3	Cut 1 ft
17+00				4 91	132 20	131 2	" 1 "
17+00			4 21		132 90		"
	3 29	136 19					
17+50				4 09	132 10	131 1	" 1 "
18+00				4 19	132 00	131 00	" 1 "
18+50				4 29	131 9	130 9	" 1 "
18+80			4 18	4 18	132 01	130 84	C 1-2" End B.M. on Hub
					132 01	→ B.M. — 18" W. of Fence Post.	
	3.29		8.39				

V 74 - P 122

Ong E Dawson

Beg. at N.W. Ext. Cor. D.L.C. 47

Th. S. 944.9 to S.E. Cor Tract

" E. 1711.4 " S.E. " "

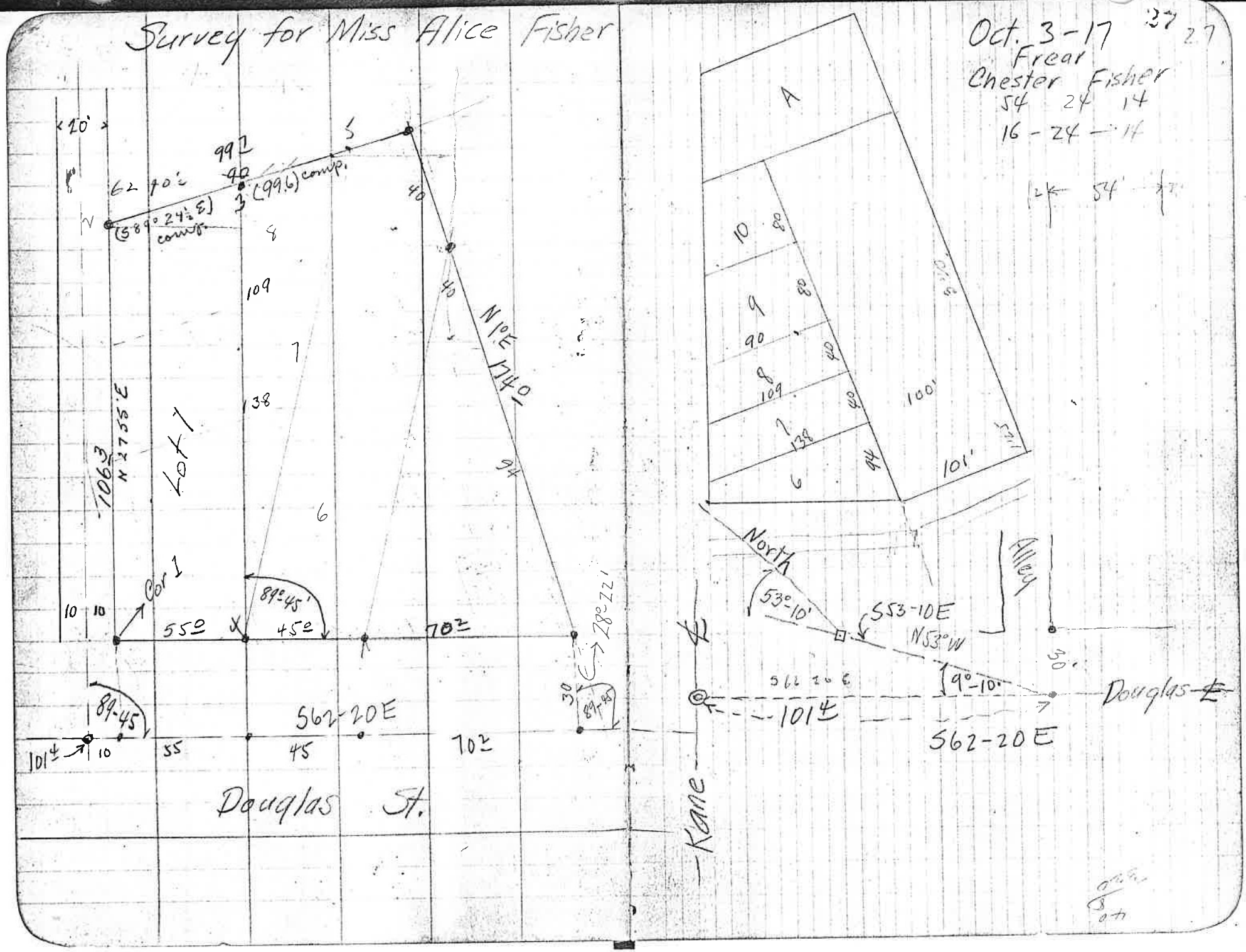
" N 00-10' E. 2266.3 to N.E. Cor. Tract

" N 89-52 W. 1718 ft. " N.W. " "

" S. 1325± ft. to Beg. Cont. 86.39

026 26

Survey for Miss Alice Fisher



Survey for F. J. Brewer

Very-Foggy
Nov. 15-17
Frear - 1d.
Dement 1d.

Nov. 16-17
Frear 1-d
Dement ½ d
Very Foggy

Expenses
1-R.T. 1.40
Board 1.20

2828

#7

5 30

8

.024

.190

.053

5 30

Old stake

1.815

S 72° 30' W

Stake

N 30° W

2.80

N 22° E
4.90

N 16° E. 7.30

111°

S 53° E. 9.04

53°

2

South
9.16

Sketch from Deed

11 Ac.

6°

52°

6

18° 30'

N 48½ W 0.92

5 53° W

13.42

78° 30'

7

6°

S 59° W. 7.50

9

59°

N 62° W
1.92

118°

1 ¼ Cor.
33 & 34

Survey for T. J. Brewer

Sta.	Dist.	Lt.	Rt.	Mag	
	2				
		116°-25'		South	
1+81 ±	1	= ¼ Cor			
			30°-24'	N63½W	
1+90	0				
			2°-07'	S86½W	
5+30	8				
		48°-21'		S84W	
0+93	7				
		19°-16'		N46¾W	N47-36W
2+75	6				
		52°-51'		N27½W	N28-20W
4+44	5				
			8°-20'	N24¼E	N24-31E
7+24	4				
		110°-40'		N15°E	N16¼E
8+71	4 3	110°-40'			
	2				
	1				
		53°-09'		S52¾E	S53-09E
8+95 Cor.	2				
4+68 P.O.T.					
1+78 P.O.T.				South	South
0+00 = ¼ Cor	= 1				

1.815 ch

Plowshare ± 2" Galv. Pipe

Old Stake ± 1"x24" G.I. Pipe

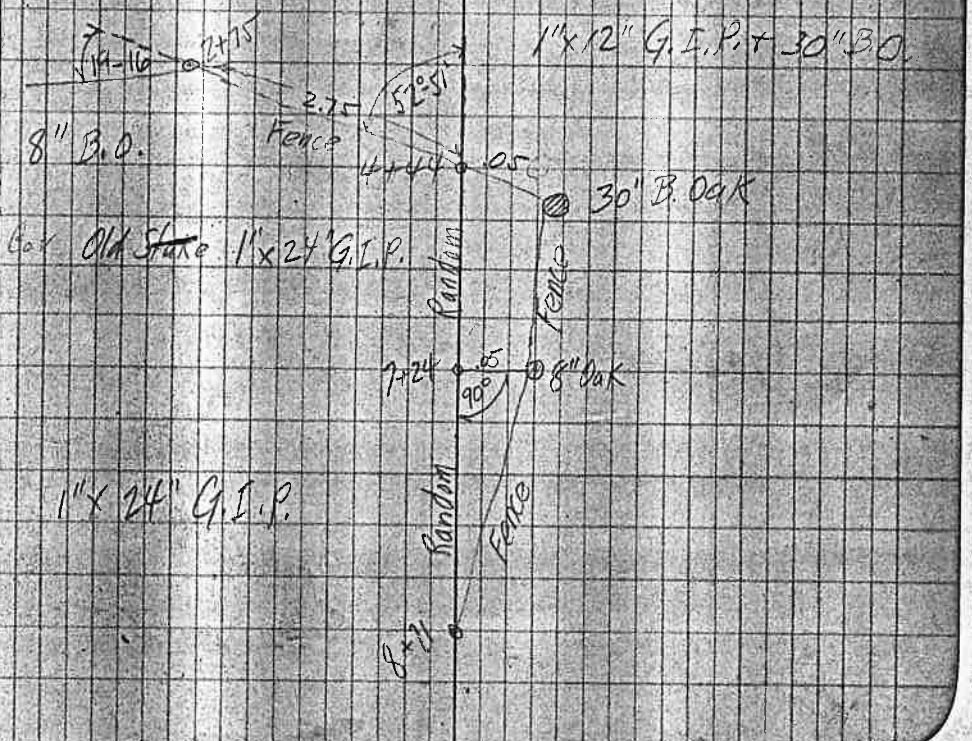
Random Line

Stake Set on True Line

Random Line

O.K. to Here Fence Cor. 1"x24" G.I.P.

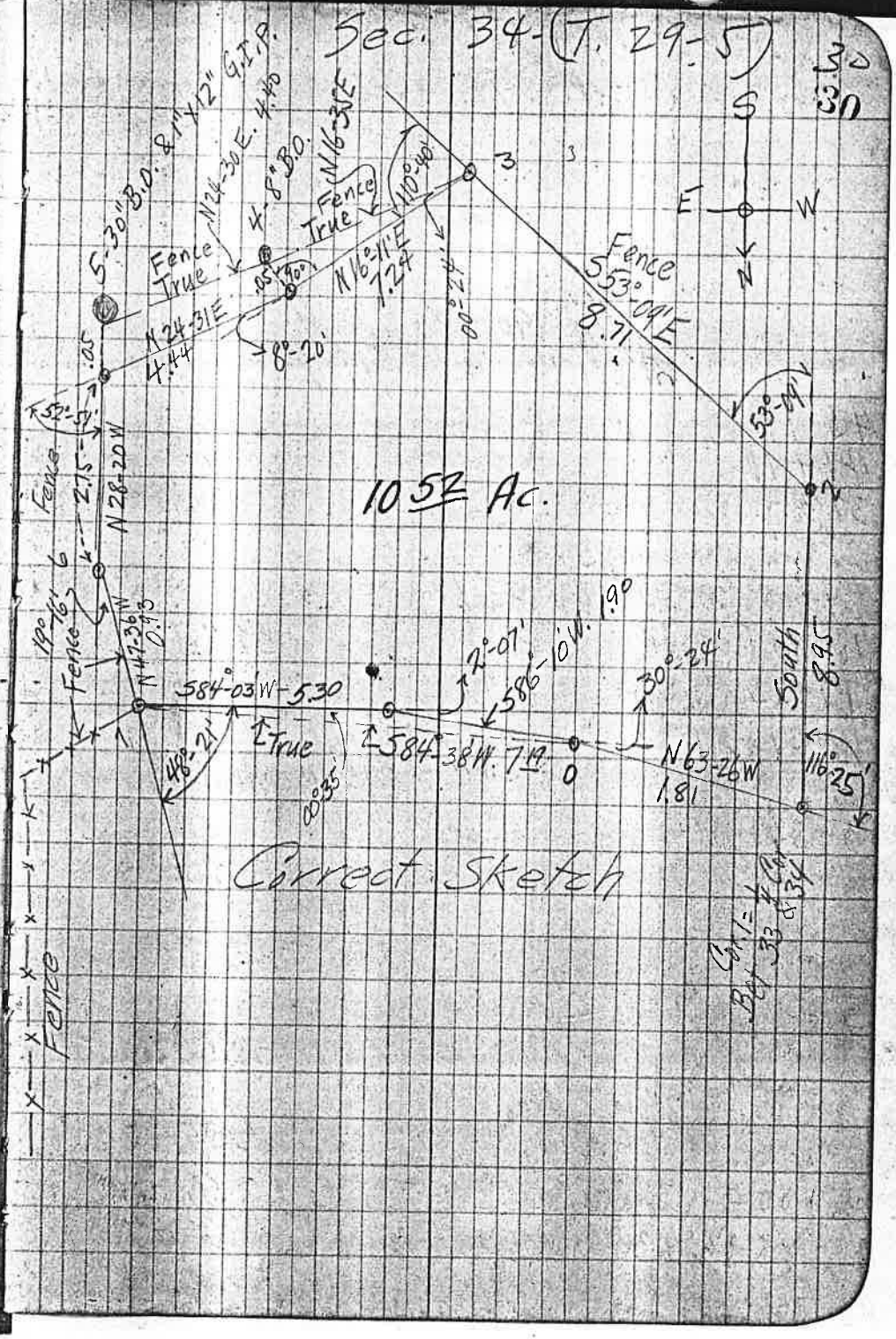
1"x24" G.I. Pipe



Description of T. J. Brewer

Began at ¼ Cor. Bet. Sec 33 & 34 (T 29-5)		
which is	a 2" Galv. I. Pipe & Plowshare	
Thence		
South	8.95	to a 1"X24" Galv. I. Pipe
S.53-09 E	8.71	" " " G.I.P. & Old Stake
N 16-35 E	7.24	to an 8" B.O. Marked it Cor.
N 24-30 E	4.40	to an 30" B.O. " " " "
		also set 1"X12" Gal. I.P.
N. 28-20 W	2.80	to a 1"X24" Gal. I. Pipe
N. 47-36 W.	0.93	" " 1"X24" " " "
S. 84°-38' W.	7.19	" " 1"X24" G.I.P. & Old Stake
N. 63-26 W.	1.81	to Place of Beginning.

Containing 10.52 Acres More or Less



Survey for J. W. Haines D.L.C. 44 = Sec. 1 – T. 22-6

31
13 1

Sta.	Dist.	Lt.	Rt.	Mag.	C.C.
		90°-00'			
44+68	N.W. Cor. Cl. 44 I fall 2 Lk South of				True Corner
43+17.5		9			
41+12		16			
37	P.O.T. Approx	15			
27	Cross Creek Running S.				
24+00	P.O.T.	11			
18+90	Approx	02		S 87½ W	
17+53	P.O.T.	05			
16+87	P.O.T.	05			
			89°-41'	West	
3+53					
		89°-00'		S 3° E	
5+00					
			89-45.	N 88° W	
3+47					
		89°-44'		S 00¾ E	
9+25					
	9.25 ch			S 89½ W	

0+00 = N.E. Cor. Sec. 1 – T. 22 S – R. 6 W. from which I marked a 14" Fir Bears N. 16° W. – 0.95 ch
1 Set 1½" x 30" Galv. I. Pipe beside Large Cedar Stake at Gate also found a.W.O. 24"-D. 13° W. – 2.10 ch
" " a.W.O. 20" S. 7½° E. – 1.45 "

9-36" Fir N 59¼ E – 47 Lks
9-18" " S. 46° E. – 39½ "
also found Oak B.T. S. 79 W. 54 Lks.

To here Dec. 3-47
Sunny – Clear

Cor. Chicken House 1 Lk North
Run about 4 ch to ℄ of Road which Turns South
½" x 30" Iron Bolt – 5.43 ch. West of N.E. Cor. D.C. 44
along E. Side Co. Road
Large Fence Post S.W. Cor. School House Prop.

Frear
J.W. Haines
Earl Frier
W. Trailer

Large Fence Post S.E. Cor. School House Prop. found old Stake
½" x 30" Iron Bolt at N.E. Cor. School House Grounds

xfee gone

Sta.	Dist	Lt.	Rt.	Mag.	C.C.
		90°-00'			
39+87 I fall 35 Lks. East of True Cor. (Rate .008)					
39+75	.346				
38+20	.333				
35+00	.305				
33+25	.289				
30+84	.268				
29+31	.255			South	
25+10	.218				
23+81	.207				
22+89	.199				
21+56	.188				
19+35	.168				
18+07	.157				
16+65	.145				
14+26	.124				
8+91 P.O.T.	.078			S00½E	
1+20 P.O.T.	.062				
3+00 Approx	.026			S00½E	
1+83 P.O.T.	.016				
		90°-00'		S1°E	
0+00 = N.W. Cor. Cl. 44 Began Chaining at Cor.					

Marked 10" Fir Bears S39°E — 61½ Lks
" 12" " " N.58°E 48 "

Found 60" Fir no marks, all burned off N25°W. 35
" Oak Stump rotted off — N40°E 109

Summit

Foothill 30+00 Creek Xing.

Summit Graveyard

Here → 18+57 Cross

Rainy-Cloudy
Dec. 4-17

2.50
2.50
1.50
2.50
2.50
2.50
2.50
2.50
2.50
5.00
5.00
15-2.50

R. Ch ↑ Frear
J.W. Haines 1
H. Ch Earl Frier 1
Ax Carl " ½
Ax Jack Gotcher 1
Flag: W. Trailer

Sta.	Dist	Lt.	Rt	Mag
	Aprox.	233.2	Acres	Total
	½ ~	116.6	"	

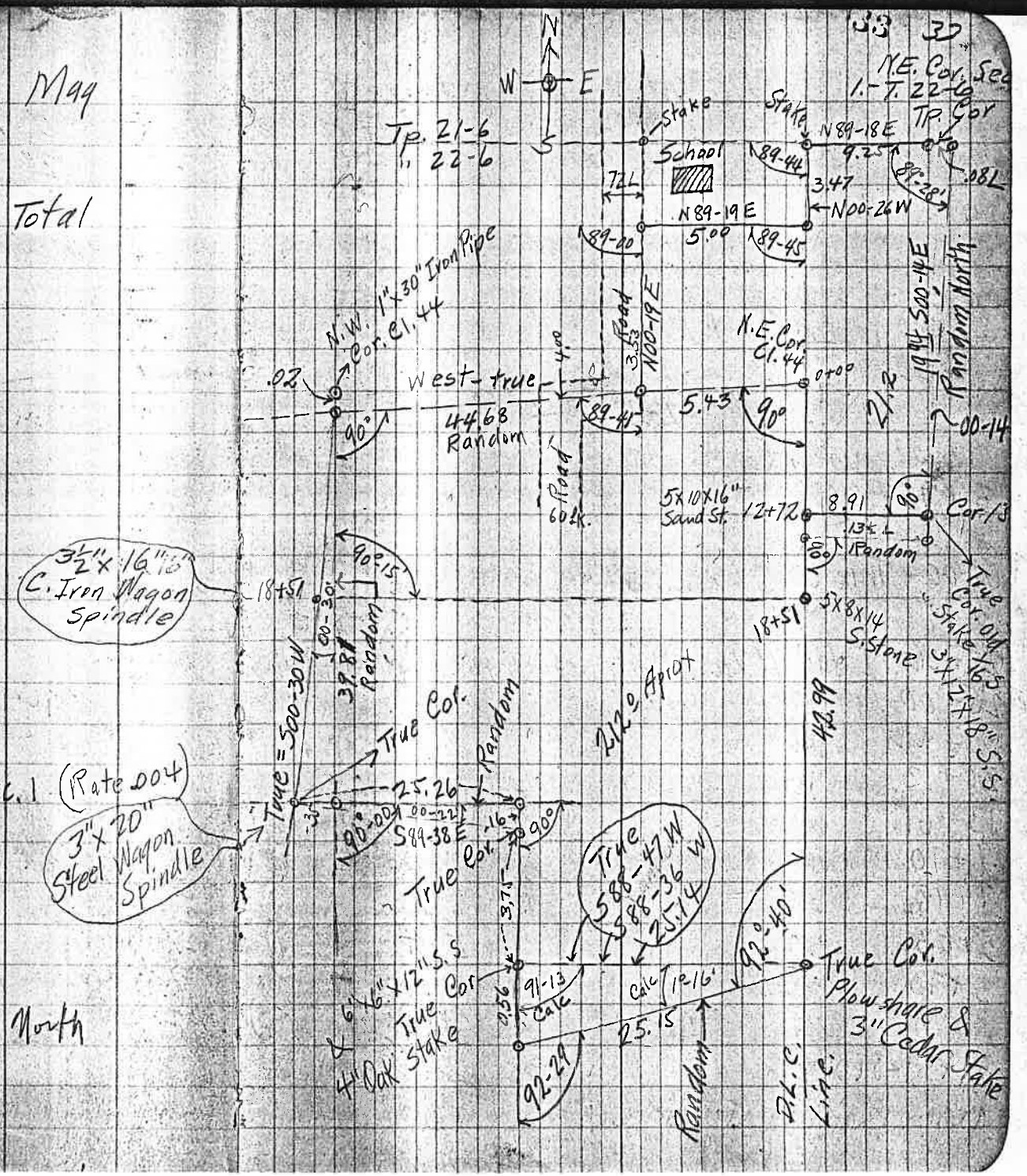
2.50
2.50
2.50
1.25
.16
8.91

20) .080.00 (4
80
.004

2.50
2.50
5.00

19+94 T. Fall .08 ch. E. of N.E. Cor. Sec. 1 (Rate .004)
17+25 .069
13+90 .055
11+10 .044
4+25 .018
3+00 -.012
1+43 .005
0+00 = Cor. 15

North



Sta.	Dist.	Lt.	Rt.	Mag.	C.C.
25+00 Random Cor. X					
~~8+22~~					
		92°-29'		N89 E	
4+31 Random Cor.					
3+75 to Cor.					
0+00 - True Cor. I began Chaining from Here					
			90°-00'		
25+26 I fall 16 Lk. North of True Cor.					(Rate .0063)
25+00	.158				
23+22	.146				
20+13	.127				
13+61	.086				
9+70	.061				
7+18	.045				
5+03	.031			East	
3+73	.023				
		90°-00'		S89¾E	
39+81 = 0+00					
Began Chaining at True Cor.					

2.50
2.50
2.50
2.50
5.00
10.00

Dec. 6-17

92+29

On Random Cor. is 56 Lks South True Cor.
Set 3" Oak Stake for Cor.

from which a 24" - N.15° W. - 1.68 { Set Sandstone
" " a 20" - N.50° W. - 1.71 { 12"x12"x8"

Note - these are Orig. Trees - Oaks

Dec. 5-17 - Cloudy.
Frear
J.W. Haines
Earl Frier
N. Trailer
Jack Gotcher.

5.00
5.00
5.00
5.00
2.50

J.W. Haines & W. Trailer Survey Sec. 1 - T. 22-6

3535

Sta.	Dist.	Lt.	Rt.	Mag.	e.e.

John Kramer Survey Sec. 3 T. 28. S Dec. 11-17 Cloudy '36 36

Sta.	Dist.	Lt.	Rt.	Mag C.C.
Random Line			along	N. Bdy. Sec

Frear ↑
J. Kramer Ax
B.R. Banning ch.
Otey Boone Flag
Patterson ch.

3 - Running W. Dec. 12-17 Same Party

2618.5 ft. from 1/2 = 1309.3 ft. from 1/4 Cor. to 1/16 Cor.

I find A.Y.O. 20" S. 34 3/4° E. - 41 Lks Marked
I " A.Y.O. 14" S 13 1/2° W. - 68 Lks down no Marks

12+98.5 I fall 47 ft. South of True Cor. 3+4
Rate .017 per ft.

I Mark 20" Fir Bears - S. 51 3/4° E. - 47 1/2 Lks
" 18" Cedar " - S. 37 1/2° W. - 45 Lks
and set 1"x24" Galv. Iron Pipe & 4" Cedar Stake

12+11.5		45.3
11+57.5		44.4
11+00		43.3
10+26	Off 14 L.	41.8
7+77		37.5
4+60 P.O.T.		31.9
13+20 = 0+00	88.3	
13+09.3 = 1/16	S. Cor. Post. 23.5 ft.	
9+40	16	
8+75	14.9	
7+97	13	
6+80.5	11.5	
6+75	9.8	
3+97	6.8	
2+73.5	4.6	
0+00 = 1/4	Cor. on N. Bdy. Sec. 3 - T. 28-S	West.

12+11.5
11+57.5
11+00
10+26
7+77
4+60

8+50 Top Ridge

S 88 1/2 W

93.5
150
250
150
150
250
250
12 98.5

100
100
100
105
100
2.50 - 3
250 - 2
250 - 1
12 5.5

150
150
4 = 10.00
3
1

12.00
10.50
6 1.50 = 8.00
7 7

Set 1"x 30" Galv. I. Pipe.
from A.Y.O. 36" S. 32° W. 2.36 found Marks
24" Alder 2 Lk. from Cor. East
14" Ash N 34 1/2° E. 38 4 ft.

John Kramer Survey Sec. 3 - T. 28-5

Dec. 11-17 - 10.30 A.M. - Hor. Ang = 22°-53'
Alt. = 20°-01'
Lat = 43°-10'
Dec. = 23°-00' = 23-05

sin dec = 23°-00 = 9.591878-10

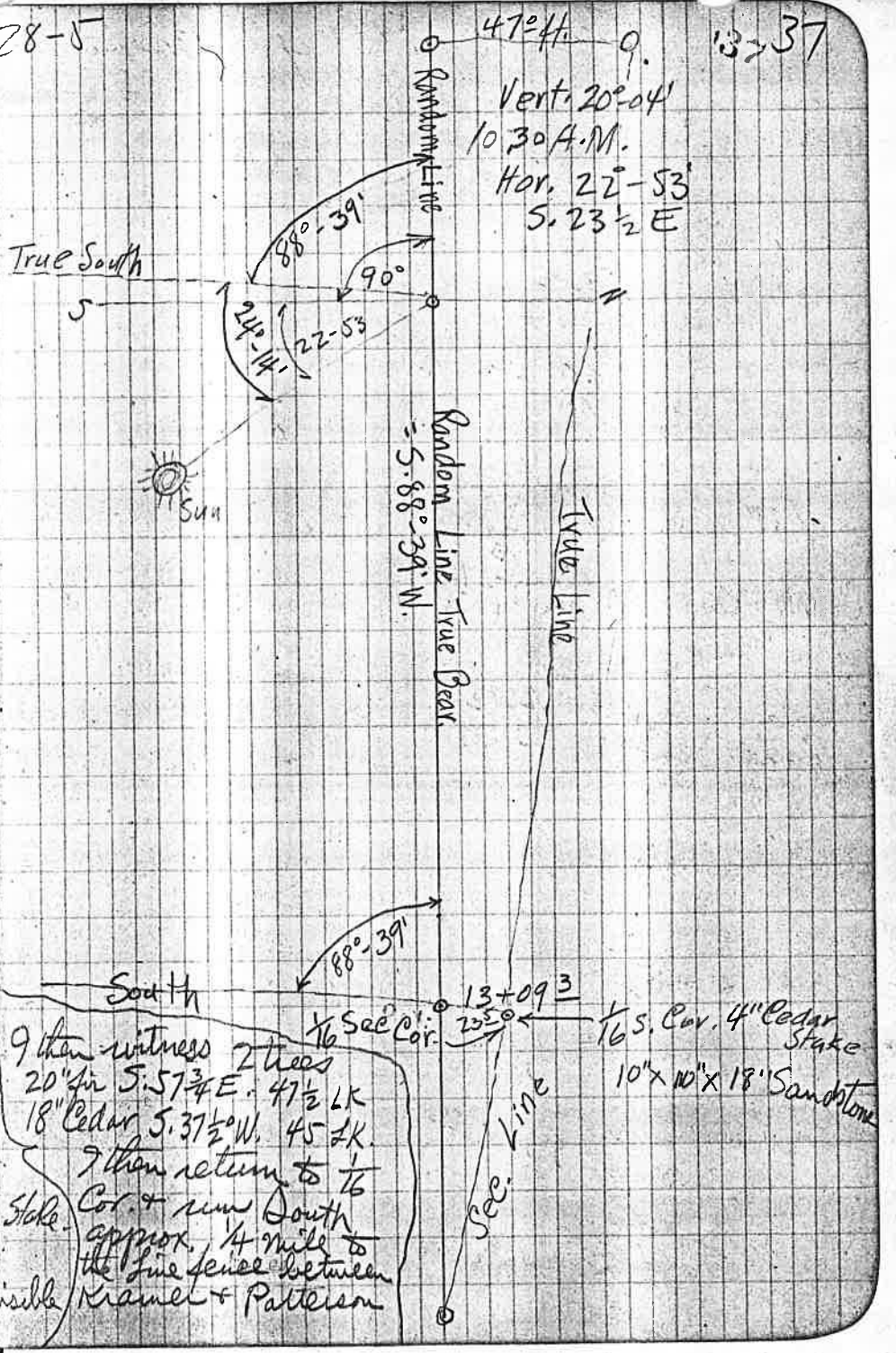
	19.591878-20	
	9.835886-10	
	9.755992-10	
Cos Lat = 43-10 = 9.862946-10		- .57015.
" alt. = 20-01 = 9.972940-10		
	19.835886-20	
tan Lat. = 43-10 = 9.972188-10		
" Alt. = 20-01 = 9.561459-10		= -.34170
	9.533647-10	
		- .91185

Cos Q =
Q = 24°-14'

9 Begin at 1/4 Sec. Cor. on N. Side of Sec. 3 - T 28-5 from which a. y. 0. 36" Beare S 32° W. 2.36 ch. found marks but other tree gone 9 planted a 1"x30" Gal. 9. Pipe + Marker a 24" alder 2 Lk. E. 1/4 Cor. also 14" Ash N. 34½ E 38.4 Lk. Thence N ran S 89-3/4 W. on true Sec. or Sp. Line at 1309 3/4 Lk. Set 1/16 Sec. Cor. a 10"x10"x18" Sandstone & 4" Cedar Stake. 2618 5/4 Sec. Cor. Set 1"x24" Galv. 9. Pipe + 5" Cedar Stake Found a. y. 0. 20" S. 34¾ E. 41 Lk. found Marks " a. y. 0. 14" S. 13½ W. 68 Lk. down + Rotted Marks not visible

9 then witness 2 trees 20" fir S. 57¾ E. 47½ Lk. 18" Cedar S. 37½ W. 45 Lk. 9 then return to 1/16 Cor. + run South approx. ¼ mile to the fine fence between Kramer + Patterson

47°-41' 9. 13-37
Vert. 20°-04'
10.30 A.M.
Hor. 22°-53'
S. 23½ E



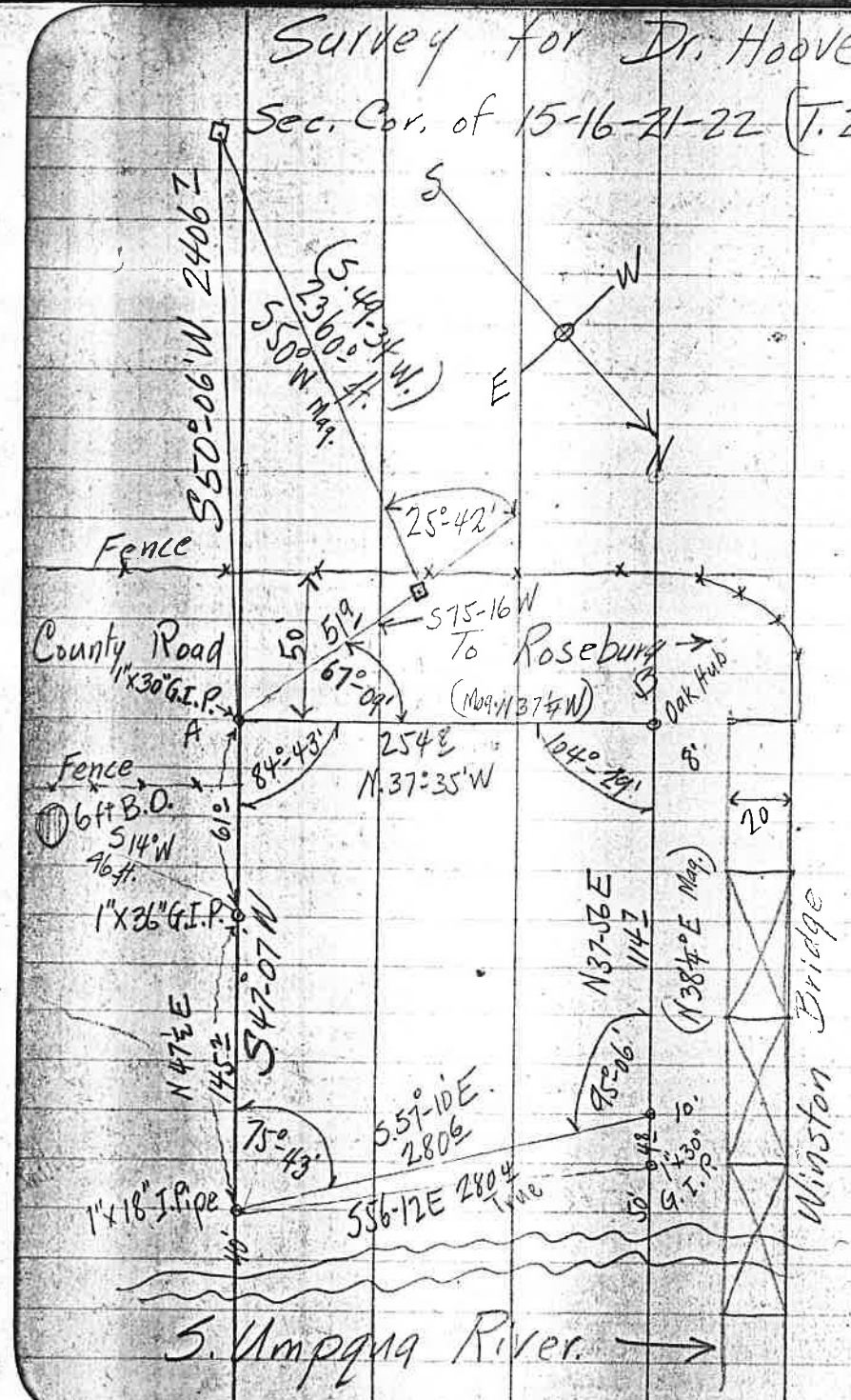
Survey for Dr. Hoover & Harry Winston

Sec. Cor. of 15-16-21-22 (T. 28-6)

Sec. 15

Dec. 13-17

Frear ↑ Hoovers Man ch.



- Description -

Beg. at a P[illegible] which is a 1"x30" Gal. I. Pipe on the N. side of Co Rd. from Roseburg to Brockway from which the Nee Cor. Common to 15-16-21-22 Bears S. 50°-06' W. - 2406.7 ft.

Thence N. 37-35 W. 254.8 ft. along the N. side of Co. Road to a 3" Oak Hub.

" N. 37-56 E. 119.5 ft. to a 1"x30" Gal. I. Pipe on the S. Bank of S. Ump. River

" S. 56°-12' E. 280± to a 1"x18" Iron Pipe on S. Bank of S. Ump. River

" S. 47°-07 W. 206± ft. to the Place of Beginning

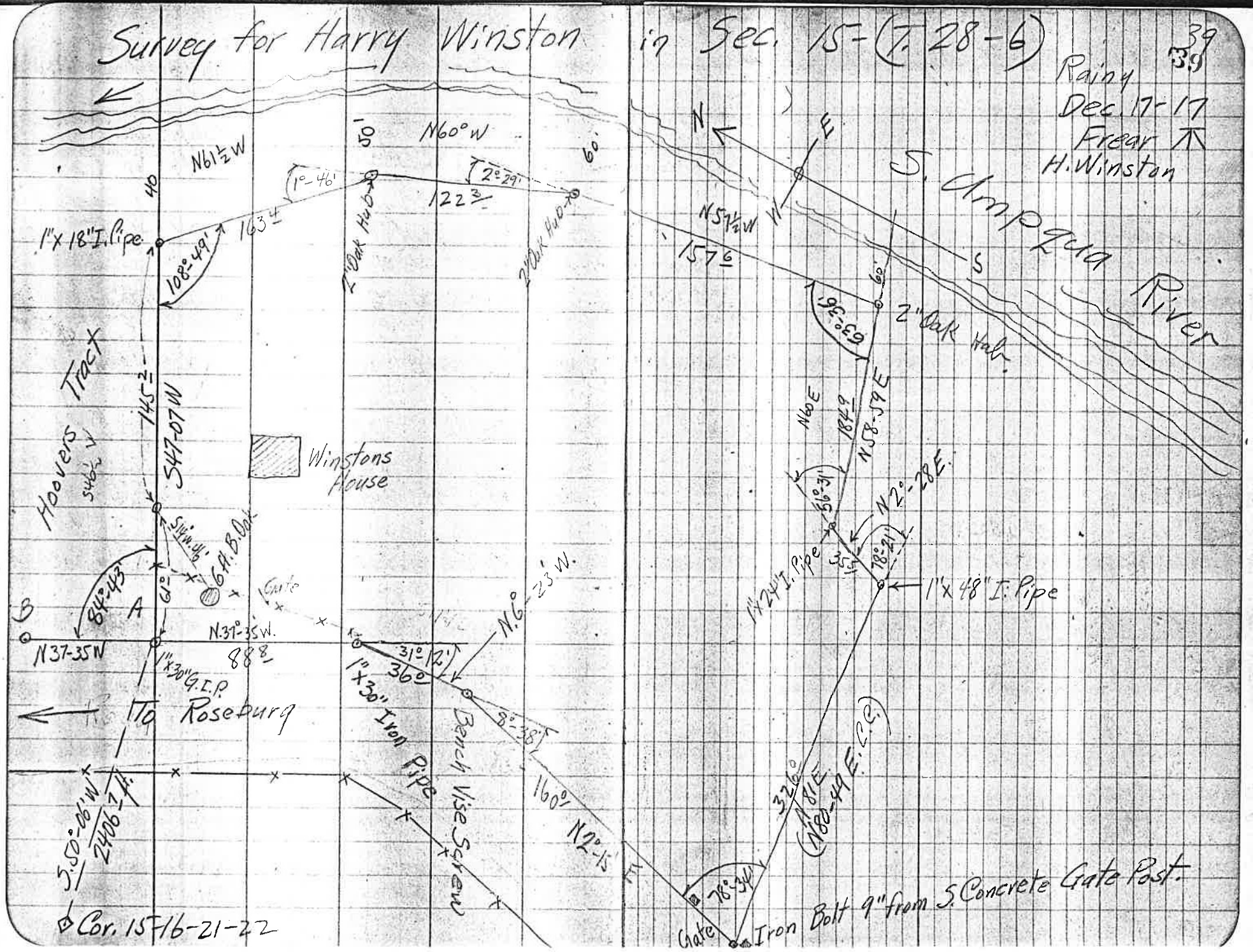
Cont. 9845 Acres more or less in Sec. 15 - (T. 28 S) - (R. 6 W)

Description compared with above M. B. 93.

Dec 15 1917

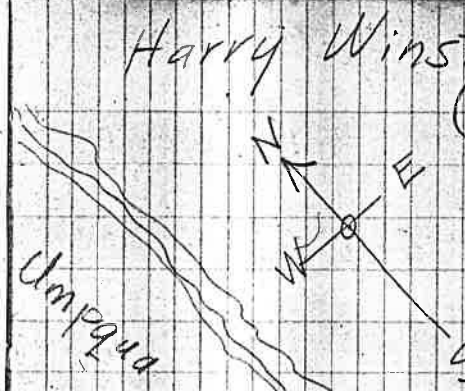
Survey for Harry Winston in Sec. 15-(T. 28-6)

Rainy
Dec. 17-17
Frear
H. Winston



Survey of 3/4 Ac. for

Harry Winston Sec. 15 (T. 28-6)



Dec. 17-17
Frear ↑
H. Winston.

3/4 / 43560 / 10890

93.3

350 / 326 7/10 / 31.5 / 1.7 / 10.5 / 1.2 / 1.05 / 1.5

350
93.3
1050
105-0
315-0
326 55-0 ft.

S.

526-47E
933

90°

N63½E
350'

N63-13E

3/4 Ac.

90°

S63-13W
350'

N37°-35'W

52°-20'

S52°-24E
473.1

S52½E

64°-23'

25°-37'

933

N26-47W

90°

67°-09'

S75-16W

25°42'

2360'
S49-34W.

S50°-06'W 2406.2 ft.

S.60°-33'W. 255.31

Cor. Sec. 15-16-21-22

Survey for Oscar Gorrell

Sta.	Dist.	Lt.	Rt.	Mag.	C.E.
To Beg. Cor.	301±	117°-00		West.	West.
11					
	179±		15°-00'	N26½E	N27-03'E
10					
	1246		10°-10'	N11½E	N12°-03'E
9					
	234°		18°-48'	N1°E	N1°-53'E
8					
	244°		3°-09'	N17¼W	N16°-55'W
7					
	215 3/	5°-51'		N20¾W	N20°-04'W
6					
	206 1	33°-33'		N14¾W	N14-13W
5					
	60 5/	64°-52'		N18¾E	N19-20E
4					
	146±	65°-09'		N83½E	N84°-12'E
3					
	171±		19-49	S31¼E	S30-39E
2					
	168 3/	50-28		S51°E	S50-28E
1					
	968 1/			South	South
0+00 = N.W. Cor. C.	301±	Barrett 90°-00'	Cl. 54	set by West.	Thiel West
11					

Sec. 29 - (T. 25-6) Cloudy - Warm (41)
Dec. 31-17

Frear
Oscar Gorrell
C.E. Miller
J.R. Richardson

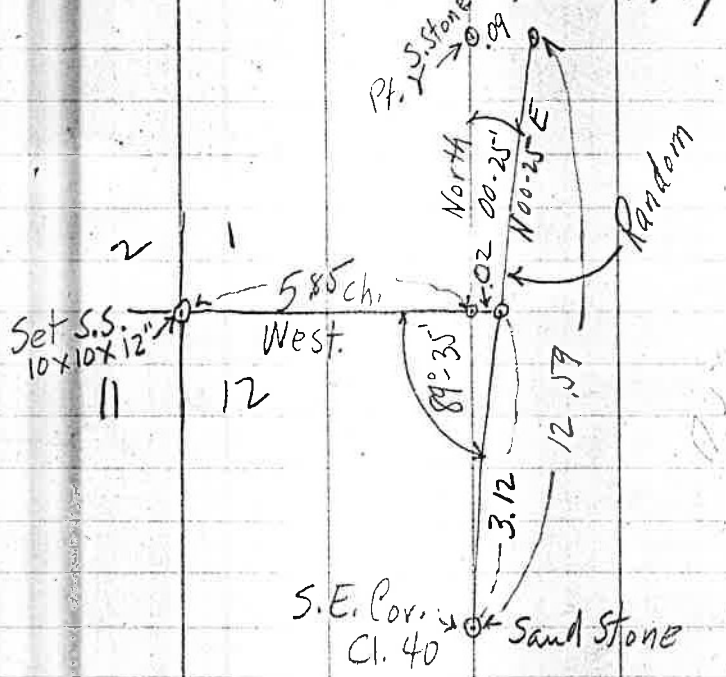
50' to ± Creek
40' to ± Creek
30' to ± Creek
40' to ± Creek
30' to ± Creek
30' to ± Creek
30' to ± Creek
40' to ± Creek
60' to ± Creek
Thence up Calaveria
On N.BK. Calaveria - 40' to ±

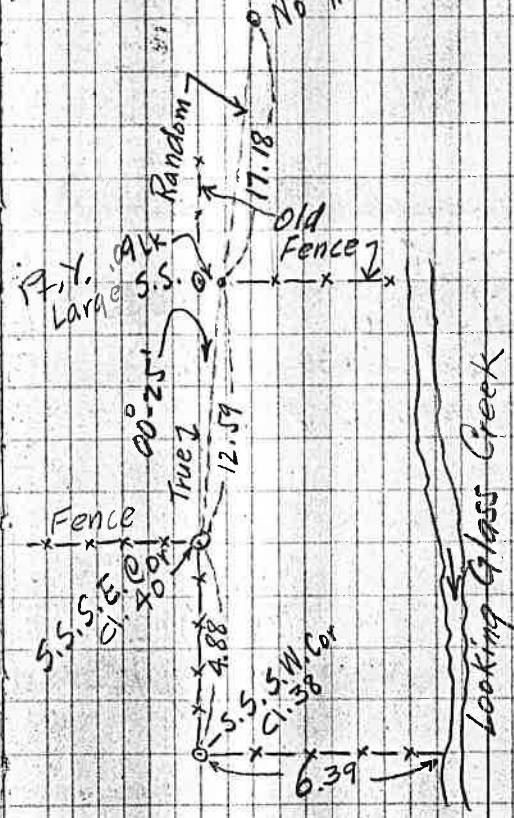
Q-24' W.O. S20°E 68 ft. I reset 1"x48" G.I. Pipe at Thiels Stake which checks the Cl. Notes.

Survey for Geo. Bacon & Mrs Chamberlain in Sec. 1 & 12 42
(T. 28-7)

Jan. 4-18-cloudy-warm 42
Frear
H.Ch J.E. Moore
R.Ch Geo. Matthews
Geo Bacon
E.F. Ollivant-Lige

Sta.	Dist.	Lt.	Rt.	Mag





3.12
7.40
12.52
17.25
4.84
34.63
34.65

4.88
12.59
17.47

Random Line.

29+77 Random Cor. find no evidence of Trees
23+11
12+60
12+59
4+75
3+12 Sec. Line Approx
0+00 =

4.88

N00 3/4 E

North

Large Sand St. - A.Y. Pine No Marks N. 23 1/4° E. 4.17 ch. Ash Gone but Evidence of Tree's near. - 6.39 ch. E. to Creek from Corner

I Find Large Sand St. and Fall 9 lk. East.

Bet. Sec. 1 & 12
S.E. Cor. Huntley Cl. 40 find Large D. Stone

This is Supposed to be S.W. Cor. Sheff. Cl. 38

West. on Sec. Line Bet. 1 & 12

Sta.	Dist.	Lt.	Rt.	Mag	C.C.
	S. 25-07 E N 25-07 W N 13 12-07				
40+20 168 39+63.5					
				S89-13W →	
					S89-15W
at approx S.89 E. 9.90 find other W.C. down 6 Rotted					
					S89-17W
I. Establish this ¼ Cor find 30" B.O.					
S.13°-E.-3.65ch. Set 1½"x30" Iron Rod					
39+63 I. Fall 37½ Lk. South of ¼ Cor.					
38+80					
12+00 Cor.					
11+92					
	1.64			West.	
	0.78			(35°-00')	2.00
				-(38°-10')	1.00
9+50					
	1.00				
8+50 Cor.					
8+04 △ Point.					
	0.56			West.	
7+48					
	3.70				
3+78				West.	

0+00 = Sec. Cor. 1-6-7-12 - Set 2x12x18 Conq. Sand st. Found 4 Witness Trees

a.W.O. 36" N. 20¼° E. 2.28 } a.Y.O. 24" S. 22° W. 1.21
a.Y.O. 30" N. 3½° W. 1.78 } a.Y.O. 30" S. 17¼° E. 1.65

2. P.M. at 8+04
Jan. 5-17
Vert 20-43
H.A. 65-50
S 23¾ W

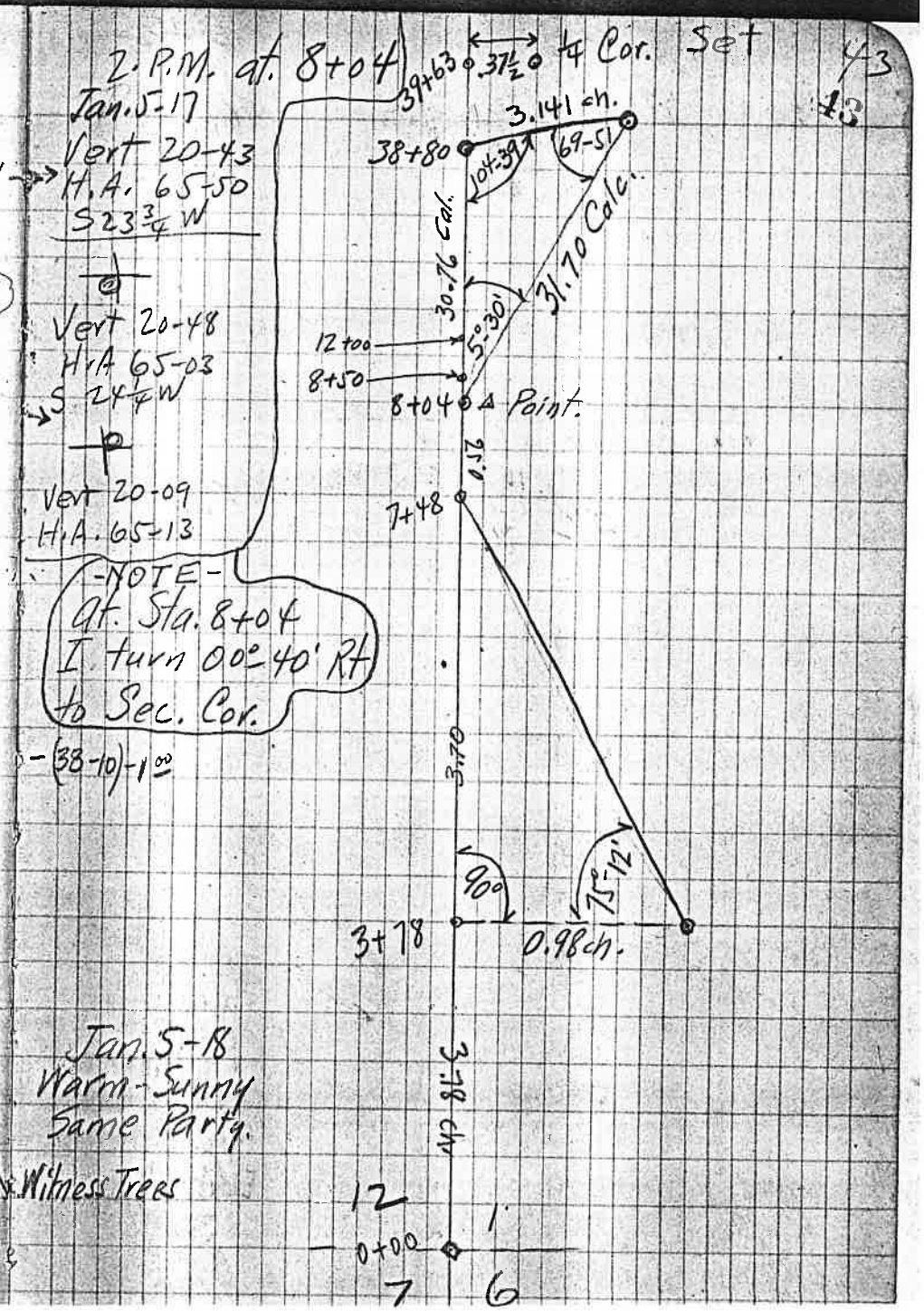
Vert 20-48
H.A 65-03
S 24¼ W

Vert 20-09
H.A. 65-13

-NOTE-
at Sta. 8+04
I turn 00°-40' Rt
to Sec. Cor.

-(38-10)-1.00

Jan. 5-18
Warm - Sunny
Same Party.



Sta. Dist. Lt. Rt. Mag

Sandstone Cor Y.

Looking Glass Creek

Road to Looking Glass

1"x30" Iron Pipe

590½ ft.

78-53'

92°-44'

4083.4

Pt. X

Jan. 7-18
Fair Cloudy.
Frear
J.C. Moore
Geo. Mathews
Geo. Bacon
Earl Ollivant

Pt. Y. Sandstone 14 44

Creek

ROAD

I. Pipe

N 89-59 W 84.5m

68.12 Ch.

61.92

¼ Cor.

37½

39+63

Random S 89-15 W 39.63 Bk Sun

S 89-47 W 39.63 True Line

89-15

South

1¼

Q 3¼" x 48" I. Pipe with Cap

3.50

4.50

N 44½ W 13-15'

N 11½ E. 4.18 True

1"x30" Iron Rod

Marked 12" Madrone for Cor But True Cor. 12" S.E. on Rock Can't drive Pipe

6-30

N. 14 E. True

5.50

71-10'

I. Pipe

1/4 Cor.

1 2 7 6

In Sec 1 & 12 (T 28-7)

Sta.	Dist.	Lt.	Rt.	Mag	C.C.

1/4 Sec. Cor Bet. 7 & 12 & Marked
a 30" B.O. N. 64¾° W. — 39 Lks.
a 4" Madrone N. 8° E. — 16½ "
& Set 24" Gun Barrell

40+41 Set 1"x30" Iron Pipe
29+10
24+55
23+47
17+91
15+10
11+97
10+00
15+89
4+35
1+03
0+00 = Pt. @ 12.00 ch. W. of Sec. Cor. 1-6-7-12

(89-15 from Random Line) South South → By Sun
Set ¾"x48" Iron Pipe with Sprocket on top

12.19
5.43
15.62

2.43
9.19
34.43

45
45

Todd Claim No. 39

3.43 → 12.19 → Wire Fence

Set 1"x30" Iron Pipe

Set 7x12

Arrangtons Old Fence.

Fence " along N. Bdy. Todd Line

+ On Rock on Ridge

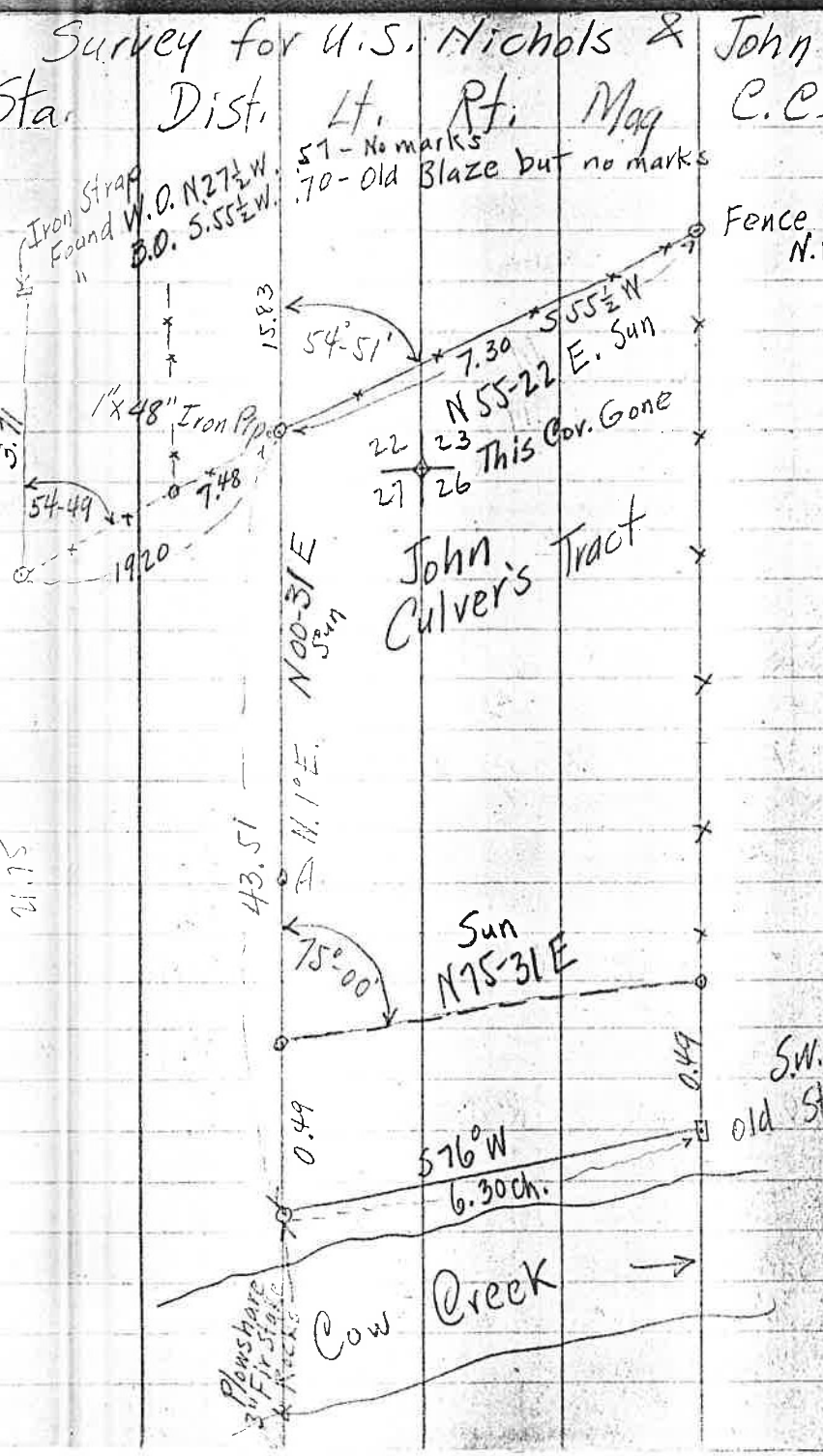
7 6 5 4 3 2 1

Survey for U.S. Nichols & John Culver. Jan. 17-18

Sta.	Dist.	Lt.	Rt.	Mag	C.C.

(T. 30-6)

1st. 2nd
3.10 P.M. - 3.15
At. A
Vert. 16°-11' - 15-47
Hor. 39-20 - 40°-04'
S. 40-05 W.
Dec. 20-45 Dec.
Lat. 42-56



1st.
Vert. = 15-51½
Hor. 39-20 = S. 39-53 W to Sun or Line = S 00-33' W
Dec. 20-45

Vert. = 15-28½
Hor. 40-04 S. 40-34 W
Dec. 20-45 or Bear. = S 00-30 W

S 00-30 W
S 00-33 W
S 00-31 W

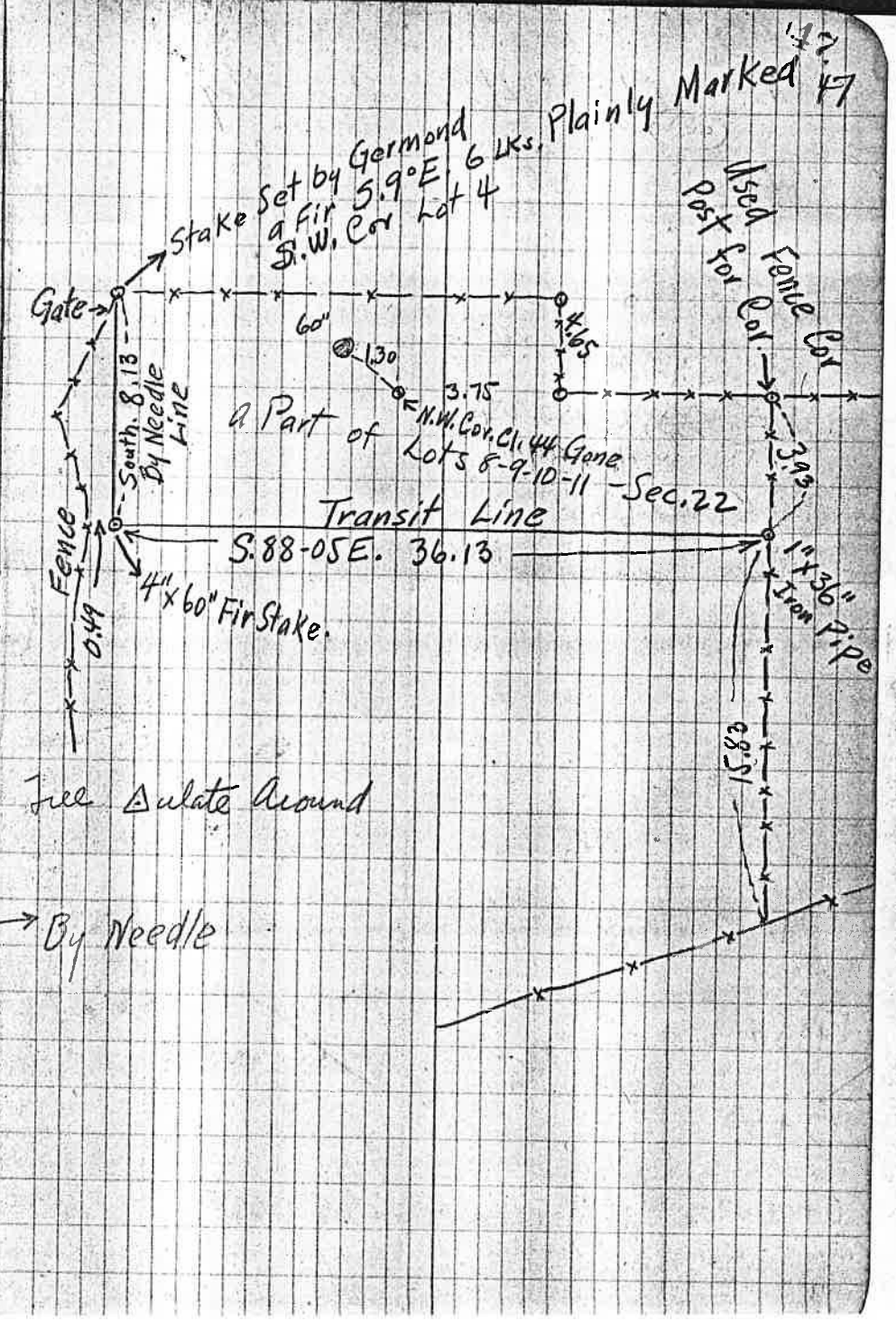
Mag. from Fence
S. 1° W. - South
B.O. .70 - S 55½ W. - S 54½ W
W.O. .57 - N 27½ W - N 28-40 W

(21°-54') 4°-00' = 54°-49'
+0.20

Rainy & Sunny Frear,
Nichols,
J. Culver,
Jess Atherbury,
T.R. Eddes,
I. Simms,

Sta.	Dist	Lt.	Rt.	Mag.
		Jan. 18-18 - Rainy		
		Frear		
		Nichols		
		Culver		
		Atterbury		
		Eddes		
		Simms		
36+13	I fall 84 lks	South of Corner	Dep = .023	
~~36+62~~				
35+50	.817			
34+80	.80			
33+50	.77			
30+45	.70	4°-00'		
30+20	.695		8°-00'	
29+95	.689	4°-00'		
26+90	.619			
25+50	.586			
24+09	.554			
20+00	.46			
15+00	.345			
10+00	.23			
7+50	.172			
5+00	.115			
1+59	.036			
0+00				

N89½W S88-05E → By Needle



Survey for U. S. Nichols (T-30-6)

Sta.	Lt.	Rt.	Mag.
13.52	13.53		
4.03	11.82		
6.30	25.35		
23.85			
		43.5 / 37000 (850	
		3480	
		22200	
		21750	.0085

23.85 : 25.35 = x : 6.30

25.35x = 150.255

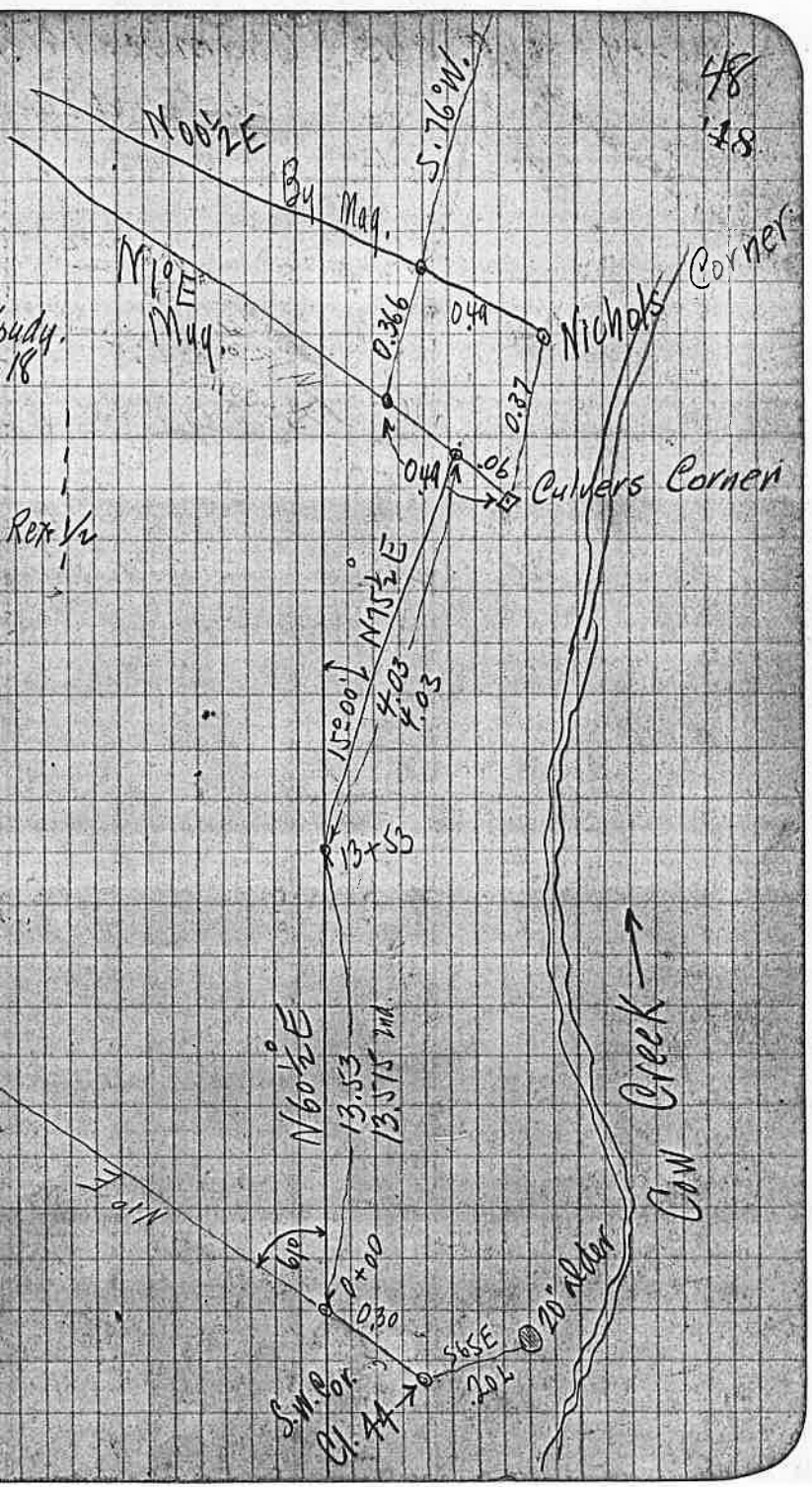
x = 5.93

6.30
5.93
.37 Too Over

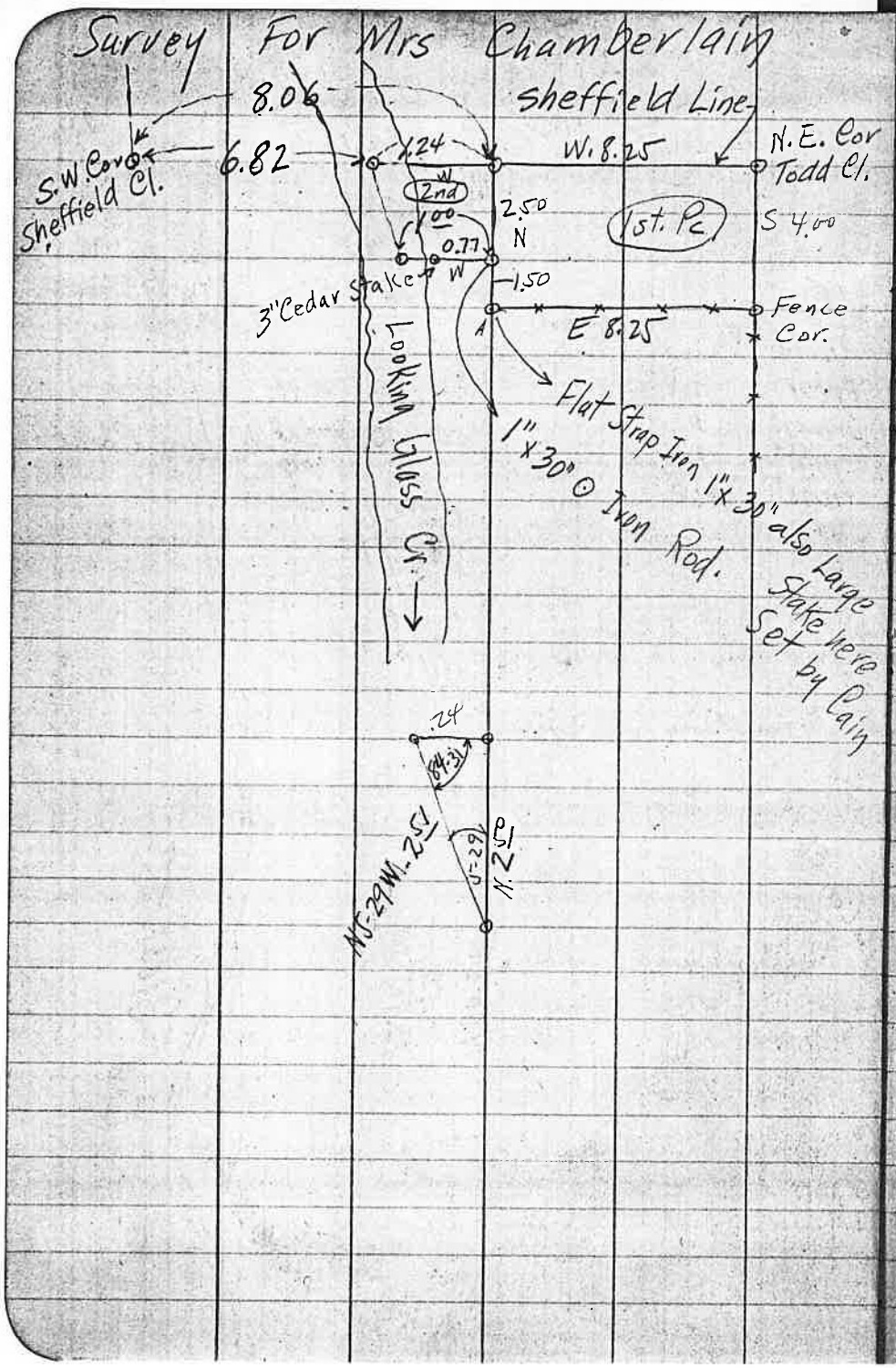
17+56		15-00'	N75½E
13+53			N60½E

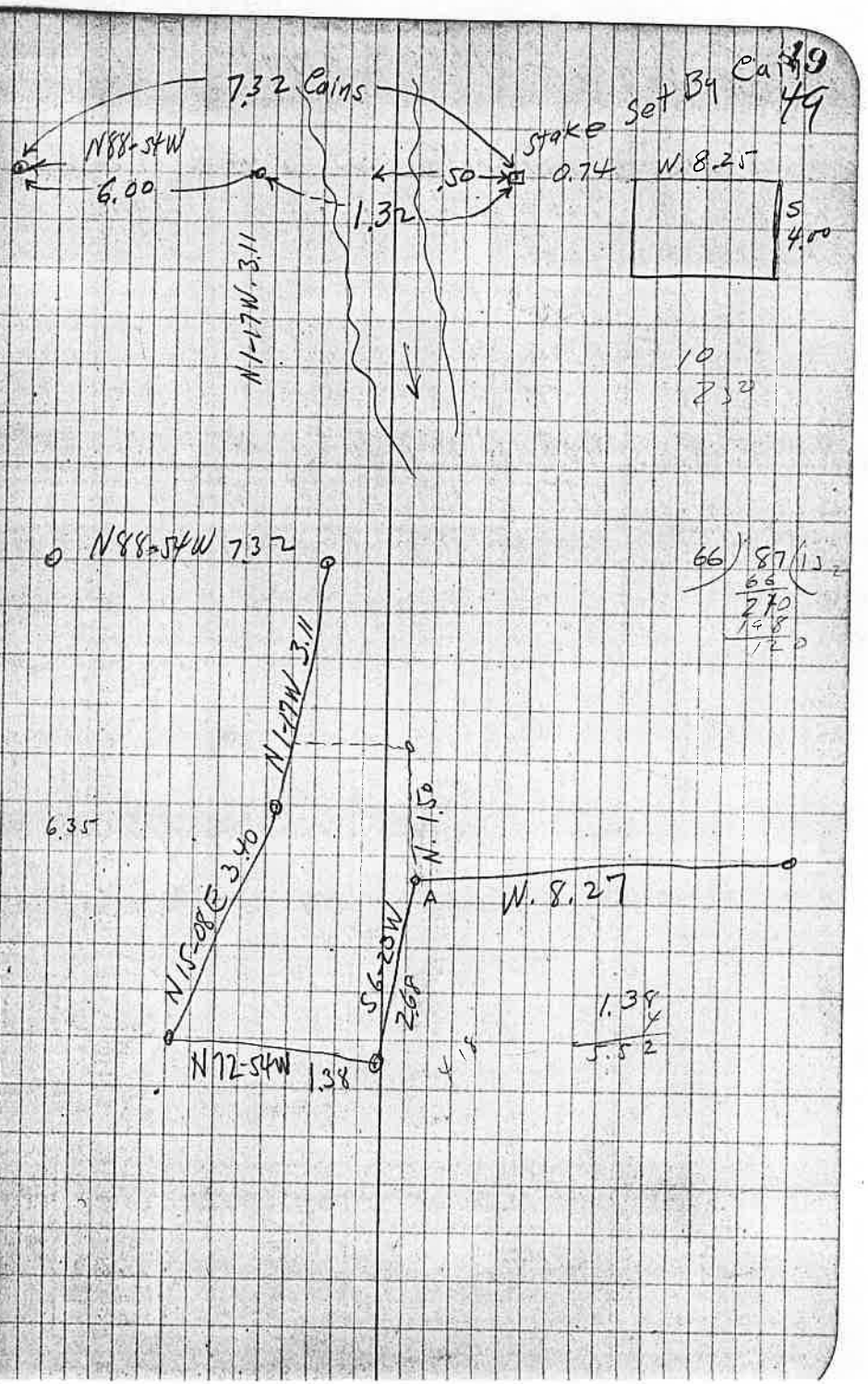
0+00 = S.W. Cor. Cl. 44 an alder 20" D. 65° E.

Cold - Cloudy.
Jan. 19-18
Frear
Simms
Eades
Nichols Rex + Vu
"



Survey For Mrs Chamberlain





Survey of Mrs Chamberlains Land for Acerage of Tillable land Sec. 1 - T. 28 - 7 50

Sat. Jan. 26 - 18

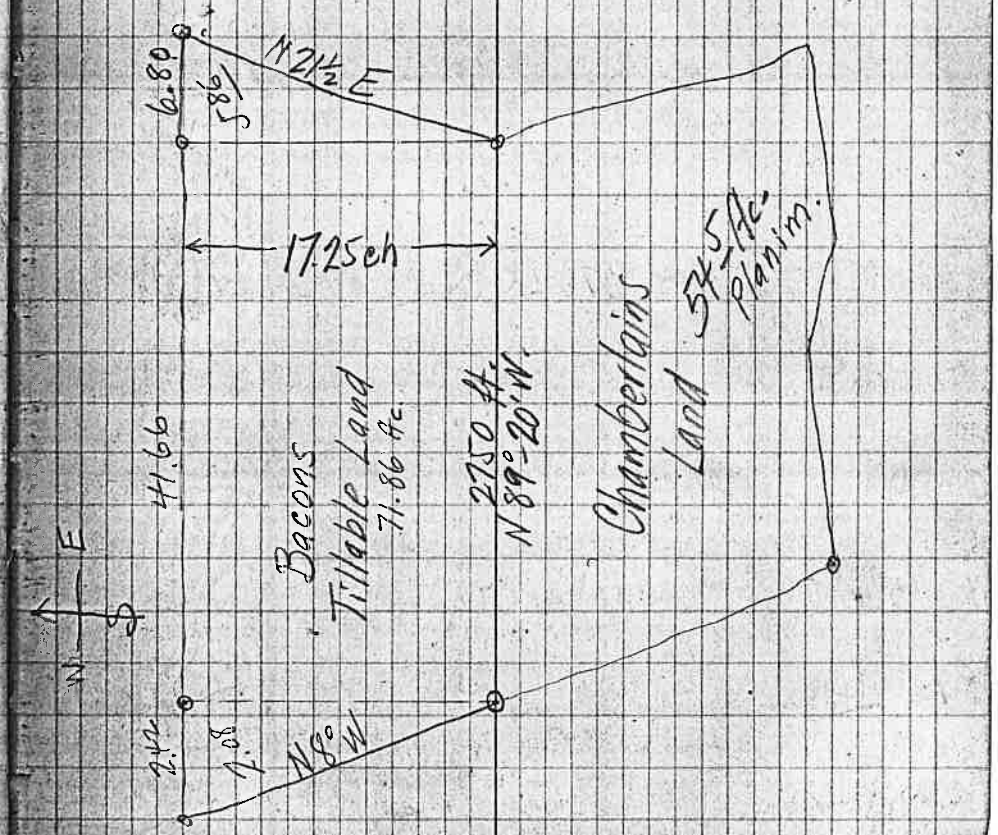
I Began at S.W. Cor. of Field for Acerage Survey and Ran Thence

Bearings.	Dist.	
N. 78¾ E.	750 ft.	11.36
N. 66°-00' E.	1000 ft.	15.1
N. 67½° E	850 ft.	13
N 18°-35' E	408 ft.	6.2 N. E. Cor. of Field Geo
N 89-20 W.	2750 ft.	41.7 along Mrs Chamb-
S 8°-50' E	1308 ft.	19.8 To Beginning

Bacons Land

5.86
71.86
2.08
79.80 ac.

Bacons Line is N 21½° E from Here
Chamberlains N. Line & Bacons S. Line
Bacons Line is N 8° W. from Here



Stg. Ch. Dist. Ch. Survey for Manning Bros.

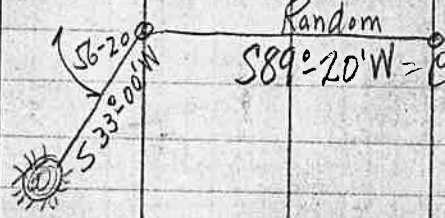
—Random on S. Side Sec. 37—

Mag. True

Decl. = = 15°-01'

Fri. Feb. 8-18
2.30 P.M.
Vert 25°-27' = (00-02') + (25°-25') - 16' = 25°-09'
Hor. 56°-20'
S. 33-05 W.
from Cor.

Lat. = 43°-26'
Q = 33°-00'



Cor. = 79+80 I Fall 67½ Lk South of Cor. or (00°-29')

4 = 79+85

3 - P.O.T. 48.40 S89-20W

2 = 31+45

10.27

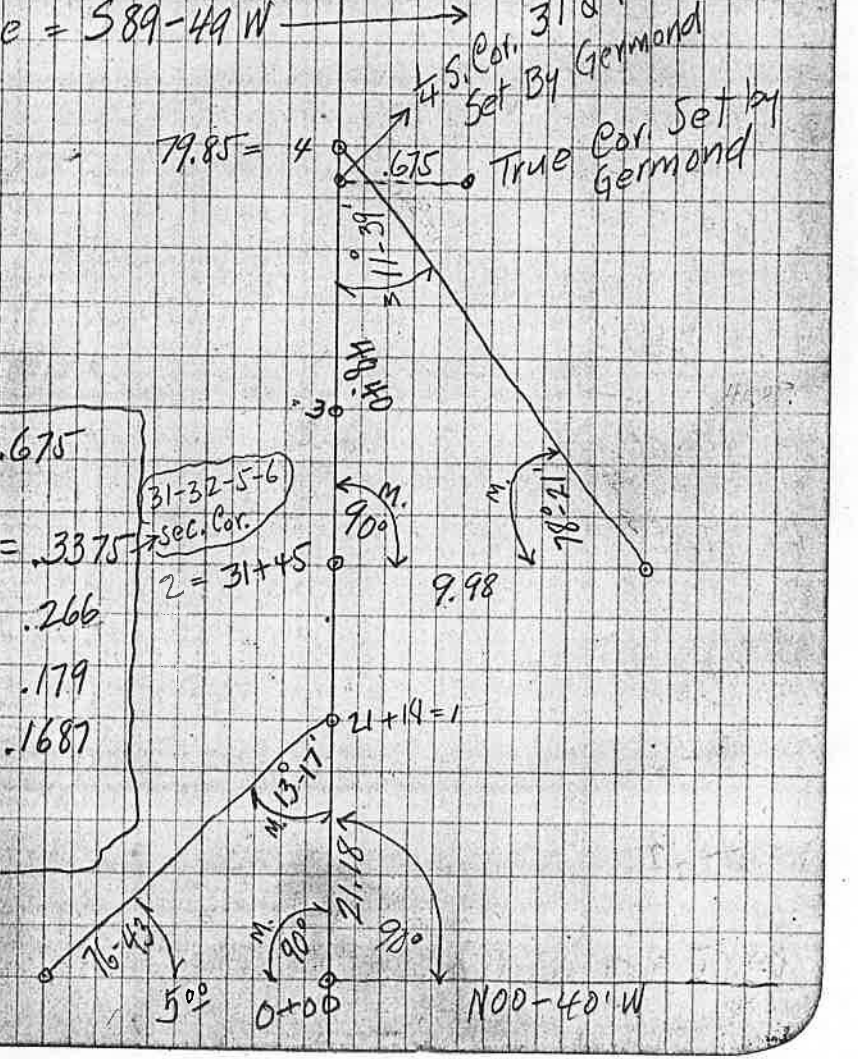
#1 = 21+18

21.18 S89-33W S89-20W

0+00 = ¼ Cor. S. Bdy. Sec. 37 — T. 24 — 4 from G.M.D.
N. 3° E. 1.27 ch.

Feb. 8-18 Sunny
Frear
R. H. Manning
A. "
R. R. Cochran Ch. Hind
Guy Buell Ch. H.
John Abeen

Random = S89-20W →
True = S89-49W →

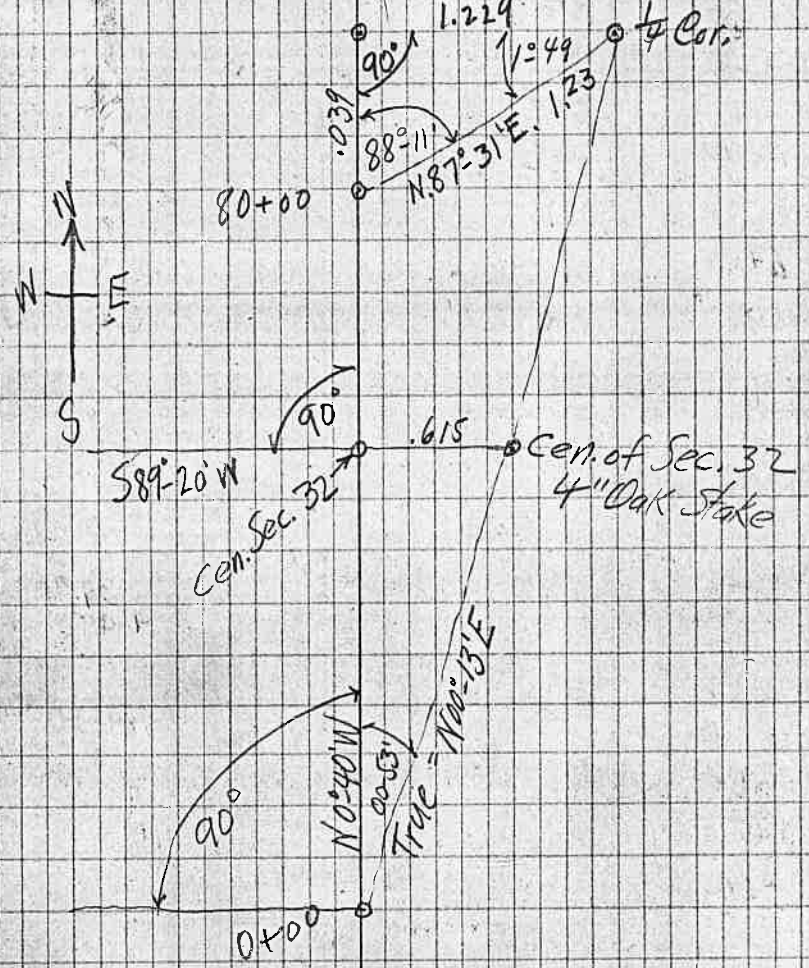


Random. Thru ¼ Sec. 32 - North

Sta.	Dist.	Mag.	C.C.
	Feb. 9-18 Sunny Same party Warm		
10 = 80+04	I fall 1.229 ch. West of ¼ Cor.		
9 = 80+00	I Fi[illegible] West of ¼ Cor.		
8 = 69+44			
7 = 64+27			
6 = 61+50			
5 = 40+00			
		N00-40W	
4 = 31+25			
3 = 27+70			
2 = 23+87			
1 = 21+73			
		N00½°W	N00-40W
0+00 = ¼ S. Cor. A. Bdy Sec. 32. - T 24-4			

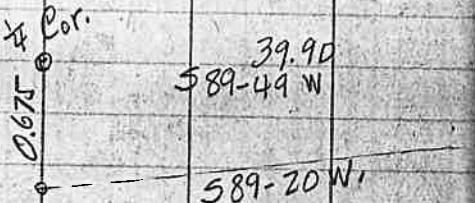
¼ Cor. 29/32
- a. B.C. N. 16½ E. 30 Lk
- a. W.O. S. 28¾ E. 90 Lk
- a. 10" Fir N65¾° E. 5 Lk

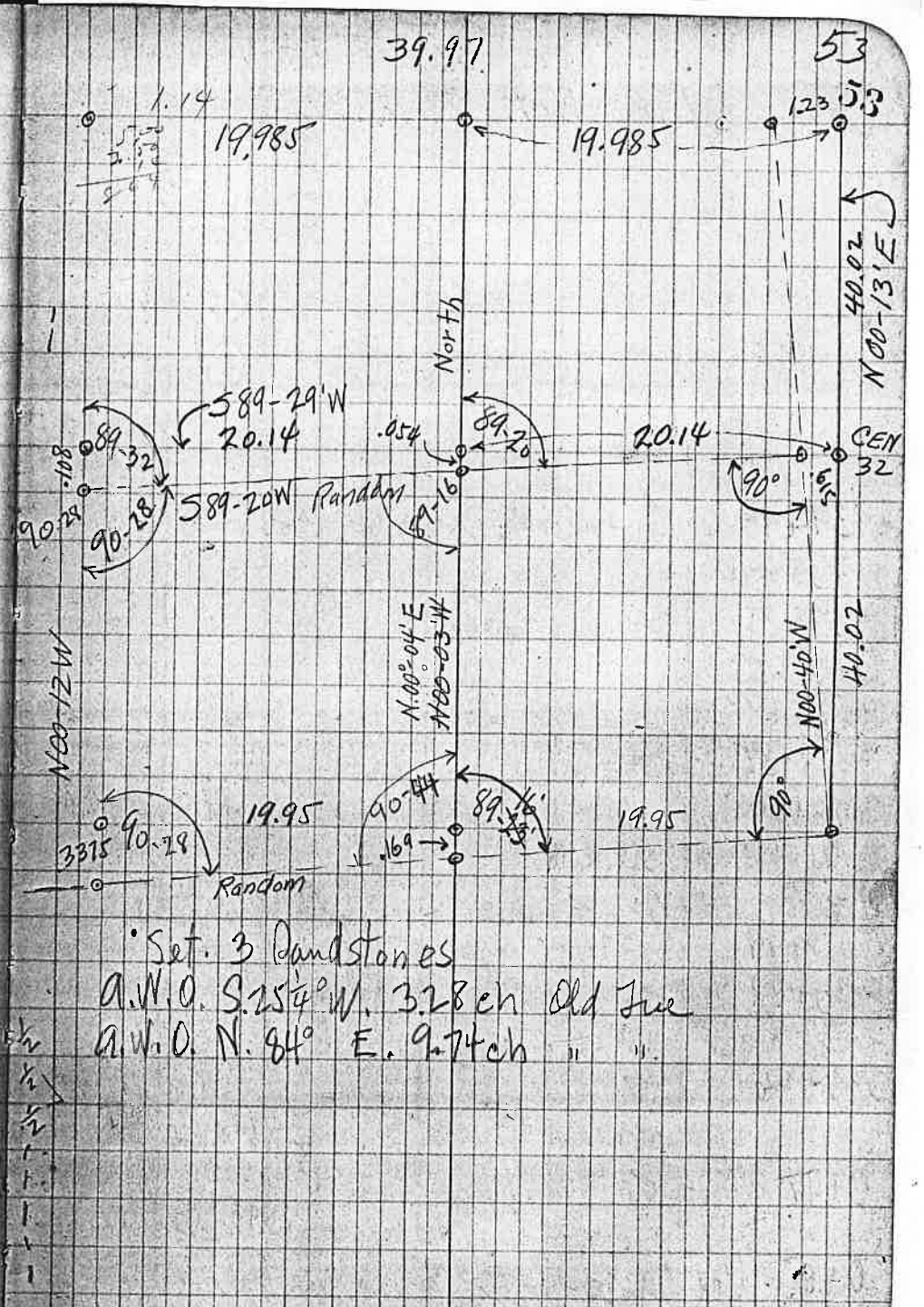
Det. S. Stone



Sec. 32 - T. 24-4

Sta.	Dist Lt.	Rt	Mag.	C.C.
40+07	I Fall 8 LKS. W. of Cor. or 7 Min.			
35+70	.071			
30+00	.06			
25+00	.05			
20+00	.04			
15+00	.03			
5+12+59	.025			
4=10+90	.022			
3=8+64	.017			
2-6+14	.01			
1=4+00	.008			
40+28	I Fall .108	Lk. S. of ¼ Cor. 31+32		
20+14	-1/16 A. Cor.			
20+00				
16+50		90°-00'	S89-40W	S89-20W
0+00 = Cen Sec. 32				





Set. 3 Sandstones
a.W.O. S. 25¼° W. 3.28 ch Old Tree
a.W.O. N. 84° E. 9.74 ch " "

Sec. 32 - T. 29-4

Sta. (Line bet. 29 & 32)

39+97 I Fall 69½ LKs. N. of Cor.

14 = 35+10

13 = 33+35 Rate = 0174

12 = 32+25

11 = 29+64

10 = 27+58

9 = 26+06

8 = 20+66 Off. 3 LK. North

7 = ~~20+00~~ 19+98 = 34¾ LK. S

6 = 14+79 .257 ✓

5 = 13+87 .24 ✓

4 = 8+86 .154 ✓

3 = 7+46 .129 ✓

3+26 = 2 .057 ✓ N89½E

2+96 = 1 = .05 ✓ N89-21E

0+00 = Cor. 29-30-31-32 ✓ Found Orig. Trees + Pt. Rocks

14 at. 40+22 I fall .23 Lk. W. of Cor.

13 = 37+54 = .225 ✓

12 = 34+32 = .206 ✓

11 = 31+76 = .19 ✓

10 = 29+70 = .178 ✓

9 = 25+32 = .152 ✓

8 = 22+01 = .132 ✓

7 = 20+39 = .12 ✓

6 = 15+61 = .094 ✓

5 = 13+49 = .08 ✓

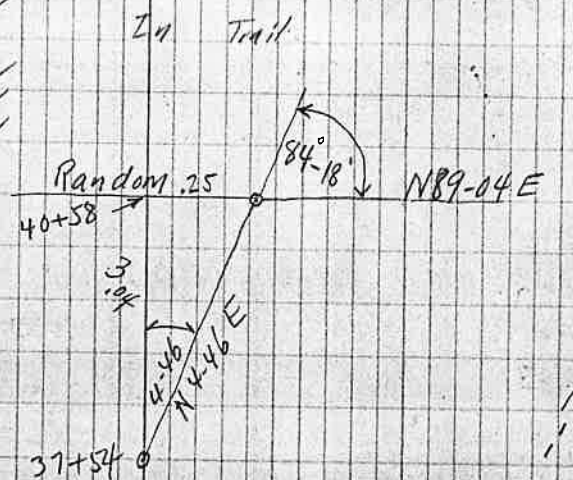
4 = 9+70 = .058 ✓

3 = 7+38 = .044 ✓

2 = 4+42 = .026 ✓

1 = 1+79 = .01 ✓

0+00



Feb. 10-18
Same Party
Cloudy-Rain.

Pt. Sandstone a 14" Fir Bears S65½° E 10½ LKs
a 12" " " S. 27¼° W — 24 "

Fare
.54
.54
2.50 Jitney
2.00 Board
5.58 S89½E

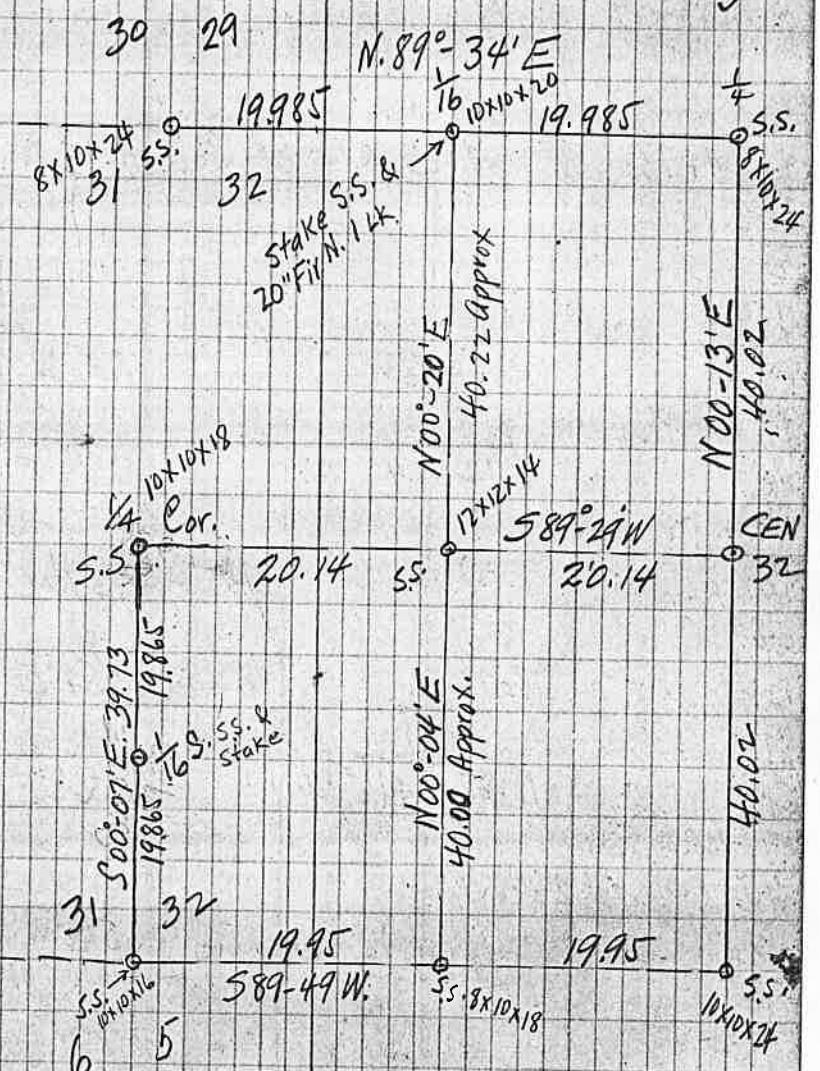
Feb. 11-18
Same Party
Cloudy - Foggy & Rainy

-39+73 I fall .065 Lk E. of Cor
3 = 24+49
2 = 19+37
1 = 4+66
0+00

= .039
19.865 - .034
= .007

Germond ¼ Cor
S.S.
589-49 W.

Sub-division of W. ½ Sec. 32 (T. 24-4) for Harrison Manning



Bearings True from Sun Observation.

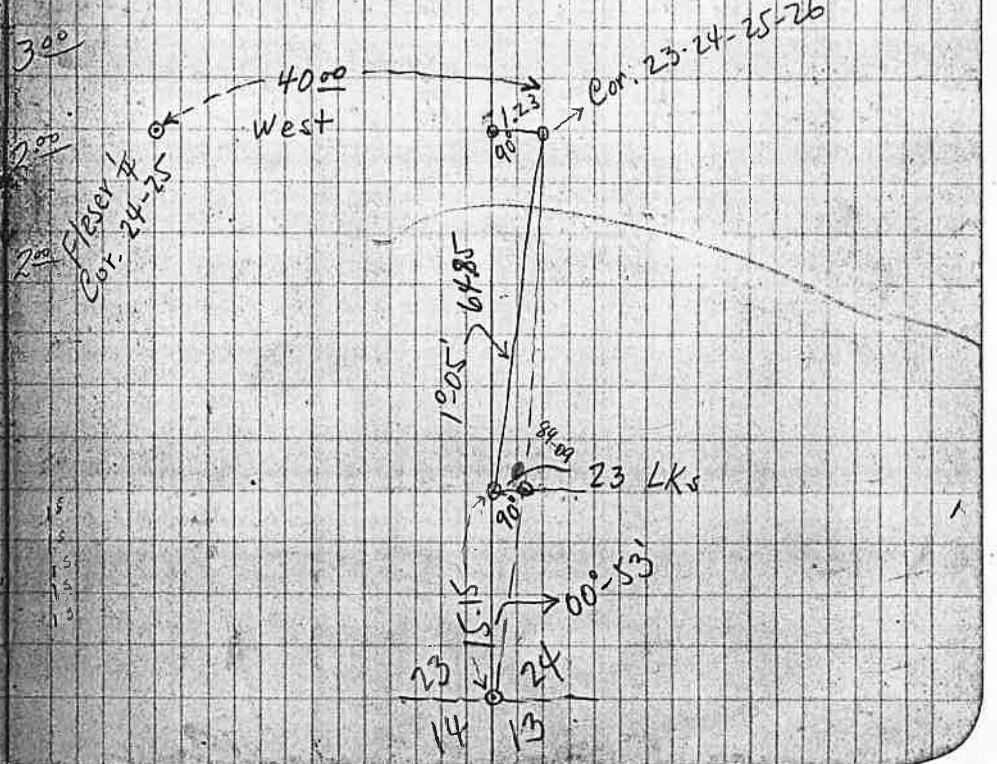
Survey of Hanks Land in Sec. 24 - (T. 30-5)

Sta.	Dist.	Lt.	Rt.	Mag.	C.C.
	66+25 L = 6.26 ch.				
4 = 29+78	I Fall 13 Lk W. of Cor.			or 15 Min.	
3 = 25+40					
2 = 16+75					
1 = 9+60					N49-03 W
		101°-02		N48 W	~~N49-18 W~~
4 Cor. Plowshare					
	4.72 ch	4°-38'		N51½E N53 E	N51-44E
3					
	8.37 ch		3°-56'	N57¼E	N56-22E
2					
	7.01 ch		18°-16'	N54°E	N52-26E
1					
	11.65 ch	146°-20'		N36¼E	N34-10E
41+02 Cor.					
40+00 Set 2"x48" G.I.P.					
15+15 off. 23 Lk. West to true Line			1°-05'	S2°W	S00°-30'W
15+15					
				South	
0+00 = Cor. 13-14-23-24 which I identify by 4.B.T. & Set 2"x16"x½" Iron Bar.					

29+69

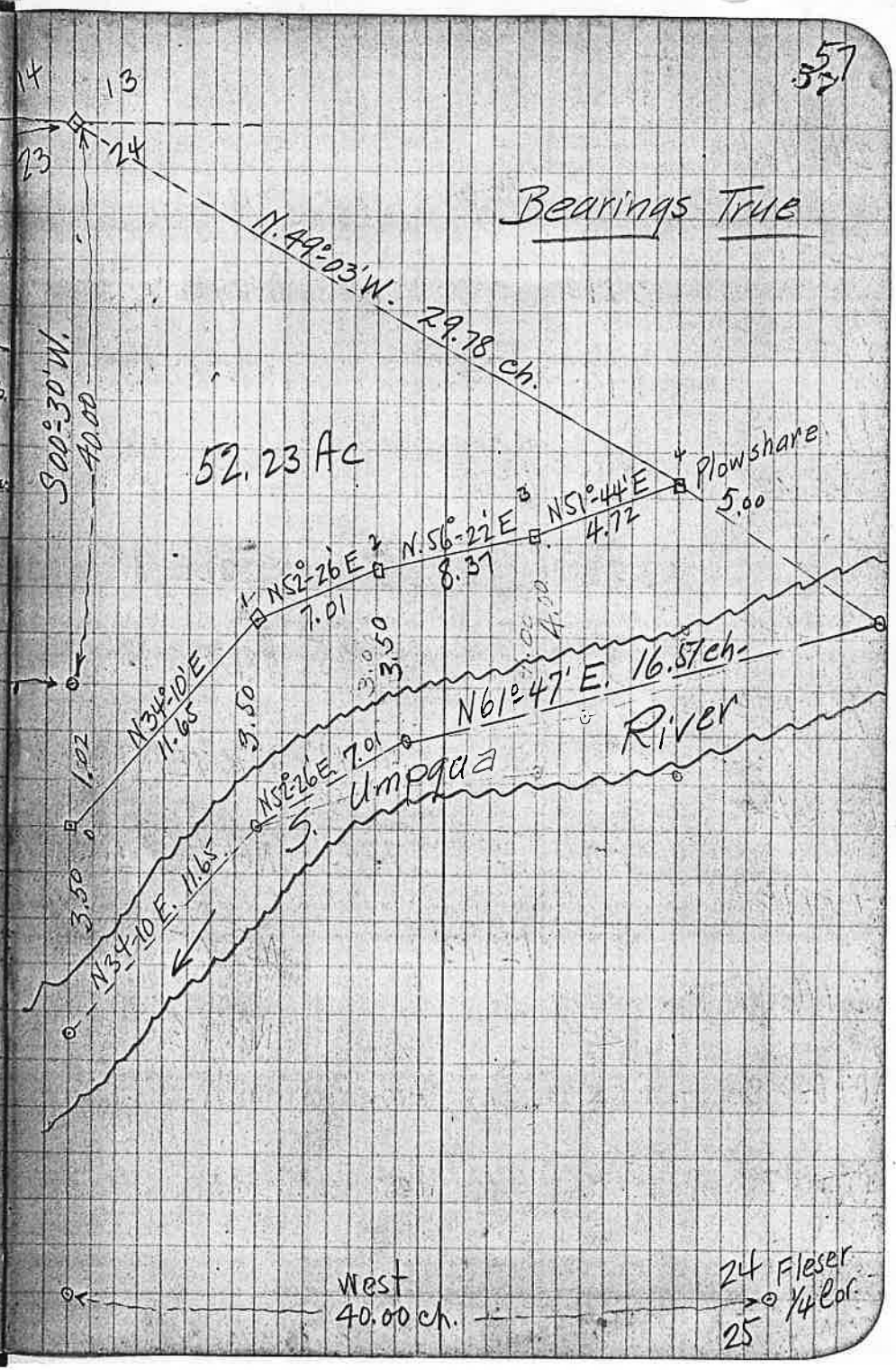
To River ℄

Rainy
Feb. 17-18
Frear
J.W. Hanks
Maj "
Joe Puckett



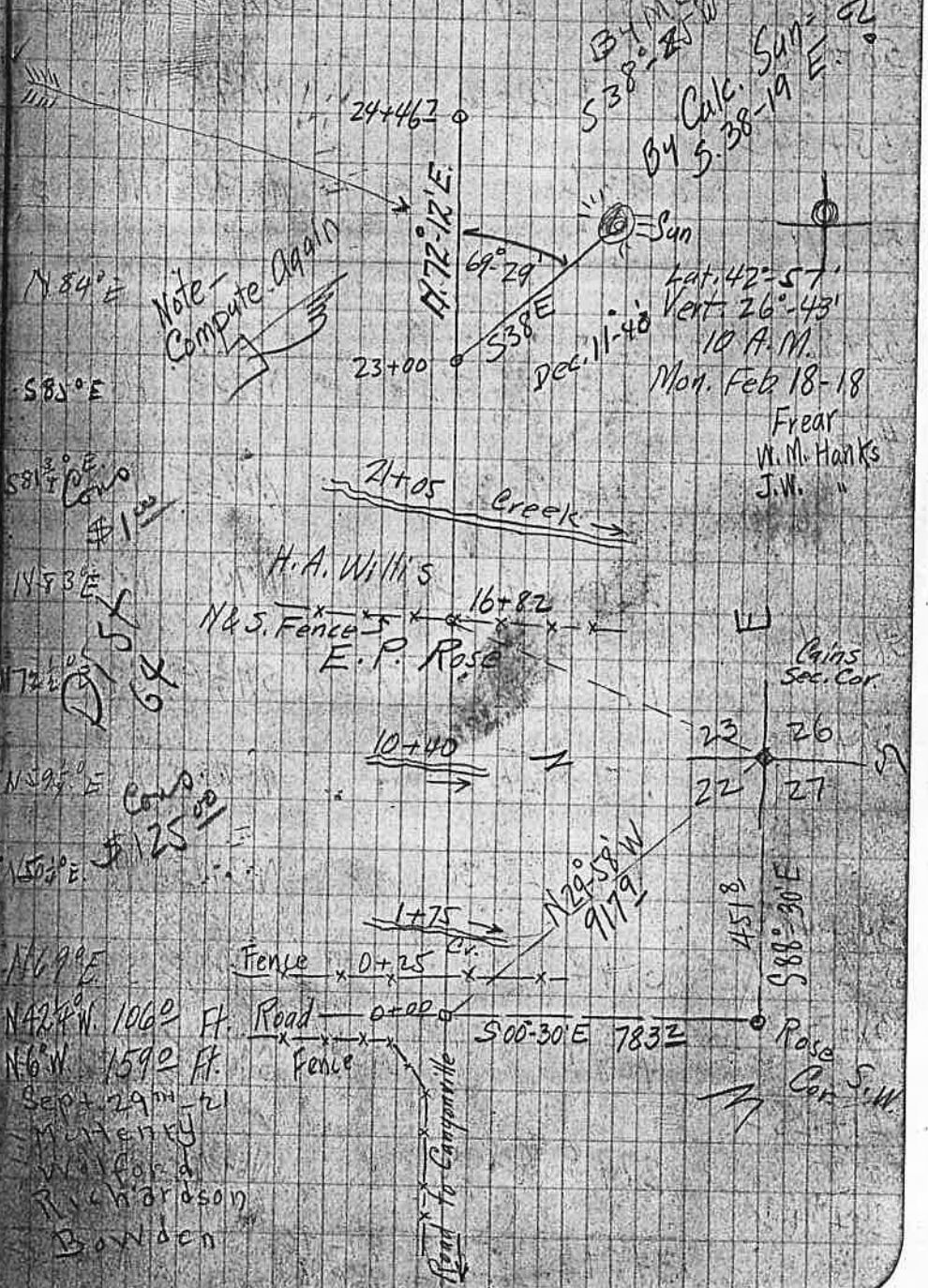
Sketch of Hanks Land
Sec. 24 - (T. 30 - 5)

Beg. at the Cor. Common to Sec's 13-14-23-24
T. 30 S. - R. 5 W. - W. M. Douglas Co. Oregon
which is marked by a ½" x 2" x 16" I. Bar. - Thence
S. 00°-30' W. 40.00 ch. to a 2" x 48" G.I.P. on the Rt. Bk. of the S. Umpq.
S. 00°-30' W. 4.52 ch. to the Cen. of the Umpqua River
Thence up the Center of the " " " as follows
N 34°-10' E. 11.65 ch.
N 52°-26' E 7.01 "
N 61°-47' E. 16.51 .
N. 49°-03' W. 5.00 " to a Plowshare on Rt. Bank of S. Umpq.
N 49°-03' W. 29.78 " to the Place of
Beg and Cont. 52.23 Ac. of Land
Situated in Sec. 24 - T. 30 S. - R. 5 W
W. M. - Douglas Co. - Oregon



Sta.	Survey of Dist.	Lt.	Hanks Rt.	Deeded Mag	C.C.
24+46.7					
	146.7	4°-08'		N72½E	N72°-12'E
23+00					
	371.8	6°-41'		N76¾E	N76°-20'E.
19+28.2		11°45'			
	177.2	15°-27'		N84°E	N83°-01'E.
17+50.3		3°46'			
15+53.0	211.0	1°-08'		S81¾E	S.81°-32E.
15+39.3			15°16'		
13+14.0	206.5		18°-25'	S80½E	S.80°-24E.
13+32.8			10°07'		
9+20.7	557.6		9°-45'	N81¾°E	N81°-11E
7+75.2			13°38'		
	137.3		10°-17'	N70¾E	N71°-26'E
6+37.9			5°41'		
	220.7		7°-43'	N61°E	N.61°-09E.
4+17.2		18°15'			
	101.2	12°-03'		N53¼E	N53°-26E
3+16					
	316.0			N65¼E	N65°-29'E.
0+00 = Beg. Pt.	a 1"x 24" Iron Bolt from		which a	24" B.O.	
	"		" a	24" W.O.	
Beg. Pt is on	E.P. Rose West Prop.		Line		
	2446.7	38-87 39-27	44-130 46-10		

Road T. 30 - R. 5 - Sec. 22-23-24
width = 40 Ft.



Sta	Dist.	Lt.	Rt.	Mag.	C.C.
58+48					
	313	20-36		N45¼E	N44-21E
55+34.9					
	93.9		3°-17'	N65¾E	N64-57E
54+41					
52+80 I.M.P.	P.O.T.				
	1020	2°-17'		N62¼E	N61-40E
44+21					
	221	9°-33'		N64½E	N63-57E
42+00					
	246	34-52		N74E	N73-30E
39+54					
	170		51°-27'	S71¾E	S71-38E
37+84					
	139	24°-51'		N57¼E	N56-55E
36+44					
	196	25°-30'		N83¼E	N81-46E
34+48					
	314		4°-01'	S74½E	S72-44E
31+34					
28+50	408.9		39°-25'	S76¾E	S76-51E
27+25					
	279	8-28		N64¾E	N63-44E
24+46					
	3401.6	122-24.7 126-07	97-76 98-16		N72-12E

57+00 → Creek

Barn

20' ⊙ 55+34.9

20'

8-28

⊙ 54+41

Set 1"x50' Mower Blade
from which a 24" W.O. Bears N. 71¼° E. - 132.9 ft.
" " a 36" W.O. Bears N. 48° E. - 139 ft.

47+50 Cr. →

37+80 Cr. →

29+50 Ditch →

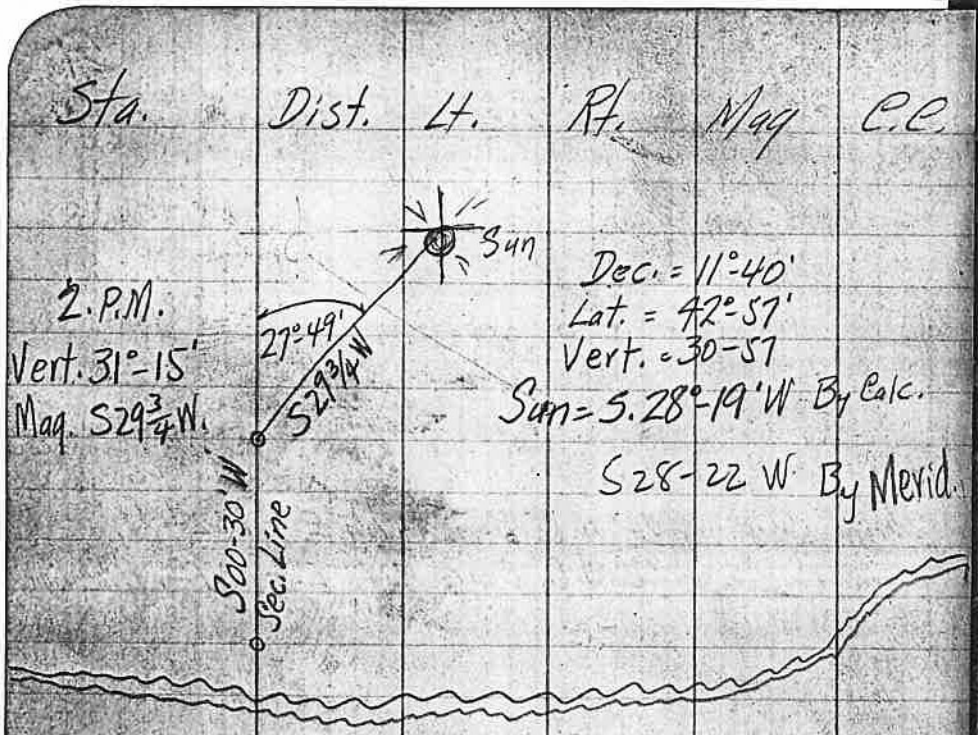
J. W. Hanks

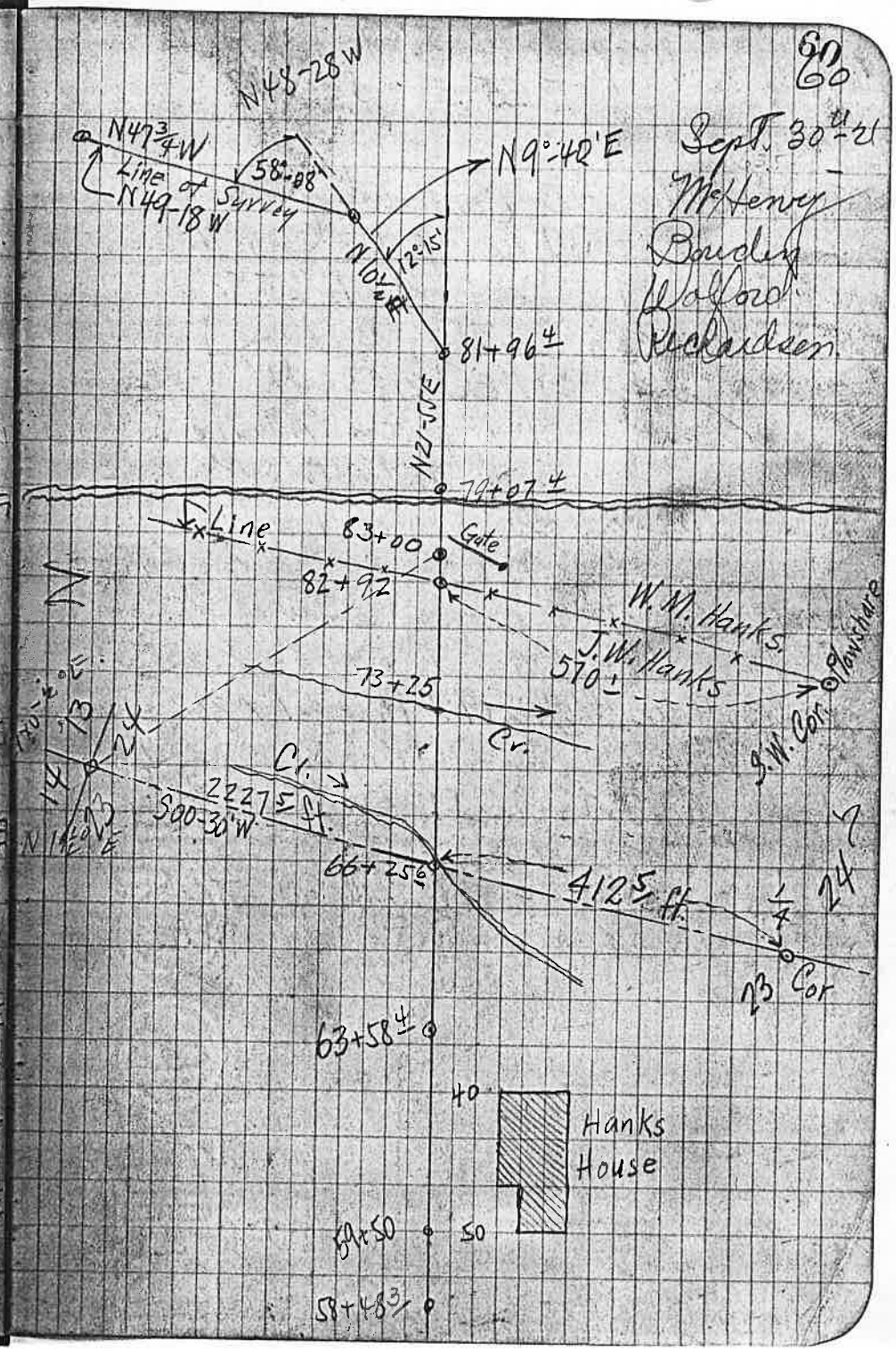
28+50

N. & S. Fence

H. A. Willis

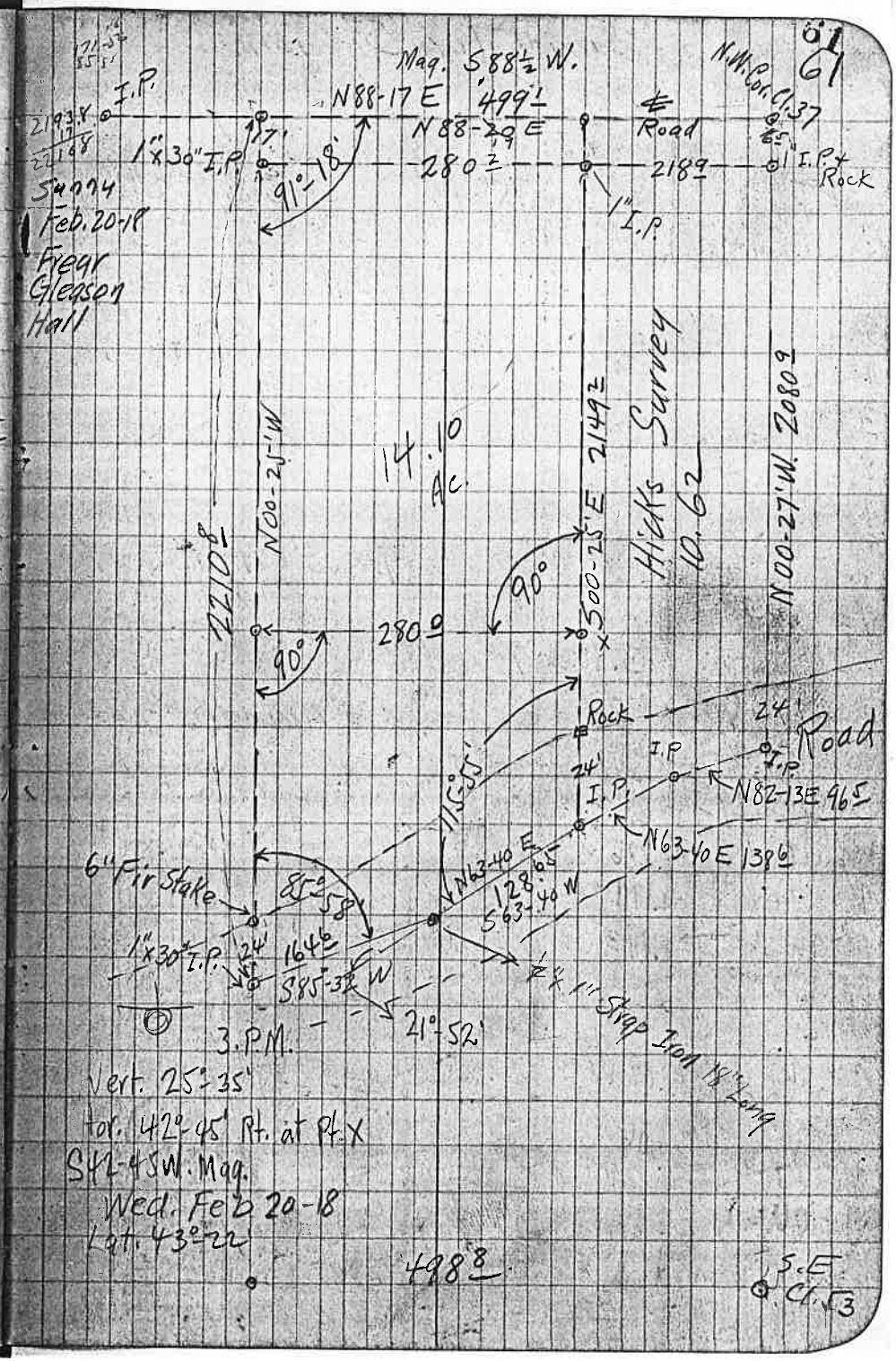
Sta.	Dist.	Lt.	Rt.	Mag	C.C.
2. P.M. Vert. 31°-15' Mag. S29¾W.			Dec. = 11°-40' Lat. = 42°-57' Vert. = 30-57 Sun = S. 28°-19' W By Calc. S28-22 W By Merid.		
83+00 End ½"x28" ⊙ I. Rod at W.M. Hanks N. Gate Past.					✓
81+96±	103±		23°-27'	N46E	N45-22E
79+07±	288±	31°-43' 27-24		N23E	N21-55E
72+19±	688±		5°-52'	N49¾E	N49-19E
67+18±	501±		15°-13'	N44°E	N43-27E
63+58±	360±		3°-24' 3-47	N28½E	N28-14E
58+32.5 / 48.3	510±	19°-30' 19°-54'		N24¾E	N24-27E
	2451.7	46-78 47-18	46-139 48-19		N44-21E





Survey for W. E. St. John
T. 25-5 - Sec. 19

Beg. at a pt. in the Co. Road from which the N.W. Cor. of the Jos. Holman D.L.C. No. 37 in Sec. 19 - T. 25 S. - R. 5 W. W.M. Douglas County, Oregon Bears N. 88°-17' E 218.9 ft. Thence S. 00°-25' E 2149.2 ft. to a 3/4" pipe in the Center of dedicated Road. Thence S. 63°-40' W. along Center of Road ~~distance of~~ 128.65 ft. to a 1/4" x 1" x 18" I. Bar. Thence S. 85°-32' W. along Center of Road 1646 ft. to a 1" x 30" I. Pipe Thence N. 00°-25' W. 2193.8 ft. to a 1" x 30" I. Pipe on N. side of County Road Thence N. 00°-25' W. 17 ft. to a Pt. in the County Road Thence N. 88°-17' E. 280.2 ft. to the place of Beginning and Containing 14.10 acres



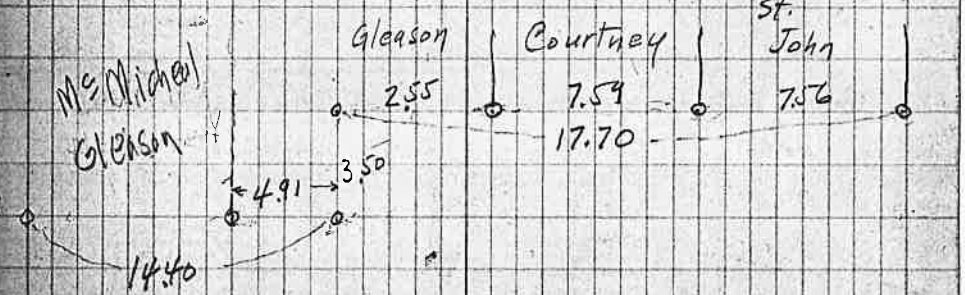
Survey for St. John - Hall & Gleason.

Sta.	Dist	Lt.	Rt.	Mag.	C.C.
		75°-43'		S88¼E	S88-19E
6 = S.E.Cor. Plat M.					S12-36E
			77°-29'	N12½W	N12°-36'W
5 =					
4 =					
3 =					S89-55W
2 =					
1 =					
			91°-00'	West.	S89-55W
A = 3+50					
	3.50	90°-00'			S1°-05'E
6 = 17+70	Set Temp. Cor. from a 24" Madrone				S25¾°W. 20½
17.5 =	Set. 333 ✓	33½ LK N.			
5 = 12+29.5 =	23.7 ✓				
15+15 →	.286 ✓				
4 = 9+45.5 =	.179 ✓				
7+56 →	.143				
				S89°W.	S88°-55'W
3 = 6+76.5 =	.128 ✓				
2 = 4+26.5 =	.08 ✓				
2					
1 - 2+47 =	.046 .247			West	
0+00 = S.E. Cor. Cl. 53 which I identify by ¾" G.I.P. and from a 8" Fir Bears S. 72° W. - 8½ LKS. C.S.B.T.					

Sunny
Feb. 21-18
Frear
Gleason
Hall

62
82

P. E. Cor Plat M.



10.45 A.M.
S. 30° E
Hor. 61°-01'
Vert. 30°-49'-31-03½
Lat. = 43°-22
Feb. 21-18
Dec. = 10-38½
Bear = S. 30°-04' E
St. John

30-49 13
30-65
31-04 73
31-03 41 32

Remark
& B.C., B.T.

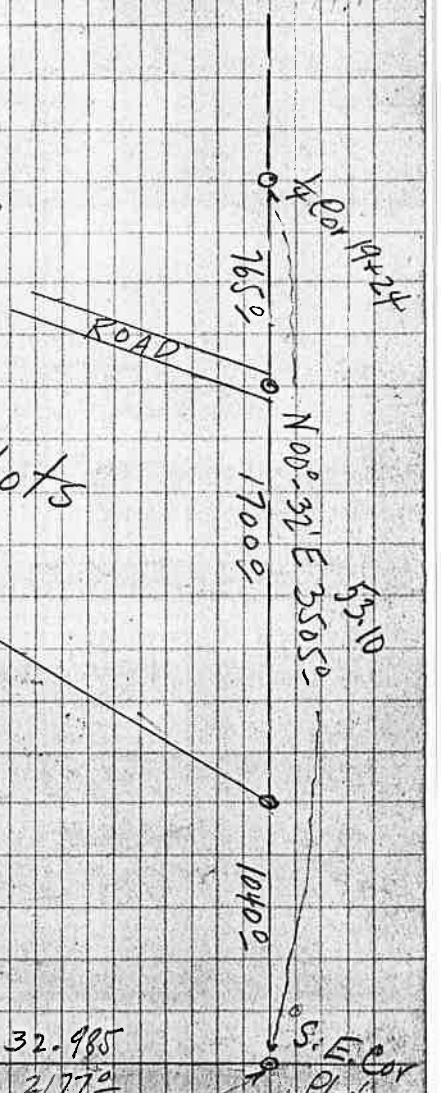
Courtney Gleason St. John
17.70

Survey for Hall & Gleason

Sta.	Dist.	Lt.	Rt.	Mag	C.C.
Cor					
5 = Temp. Cor		91°-41'			North
4					
3					
2					
1				S88-4E	S88-19E
6 = S.E. Cor Plat M.					

T. 25-S

Data from the Map of PLAT M
taken at Sutherlin



Survey for Hall & Gleason
T. 25-5

Total Length of Division Line = 36 ch.

$\frac{1}{2}$ of $\frac{7.56}{36} = \frac{7.56}{72} = .105$ or St. Johns Share

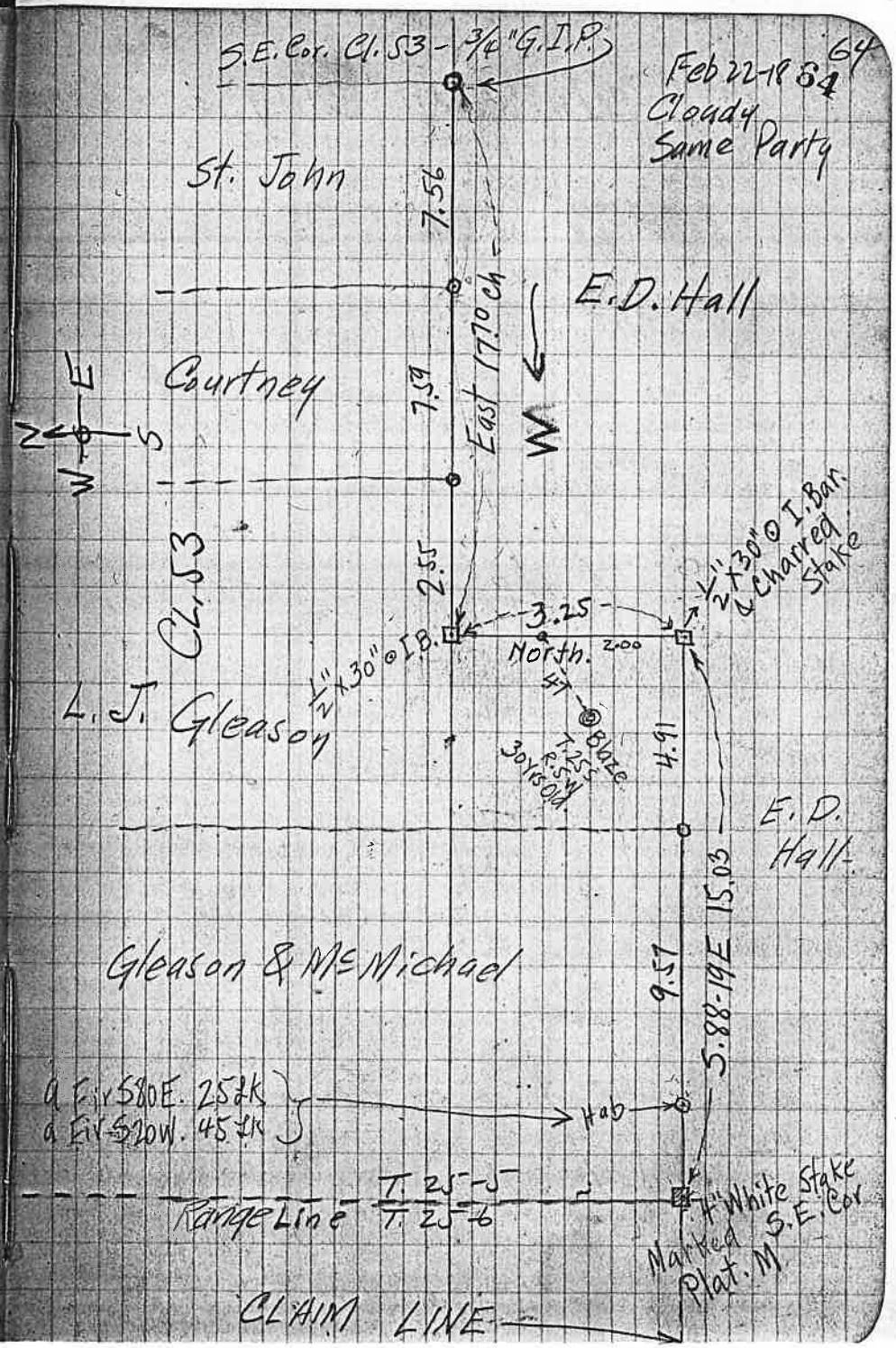
$\frac{18}{36}$ or $.50$ = E.D. Halls Share

$\frac{1}{2}$ of $\frac{28.44}{36} = \frac{28.44}{72} = .395$ = L.G. Gleasons Et.al

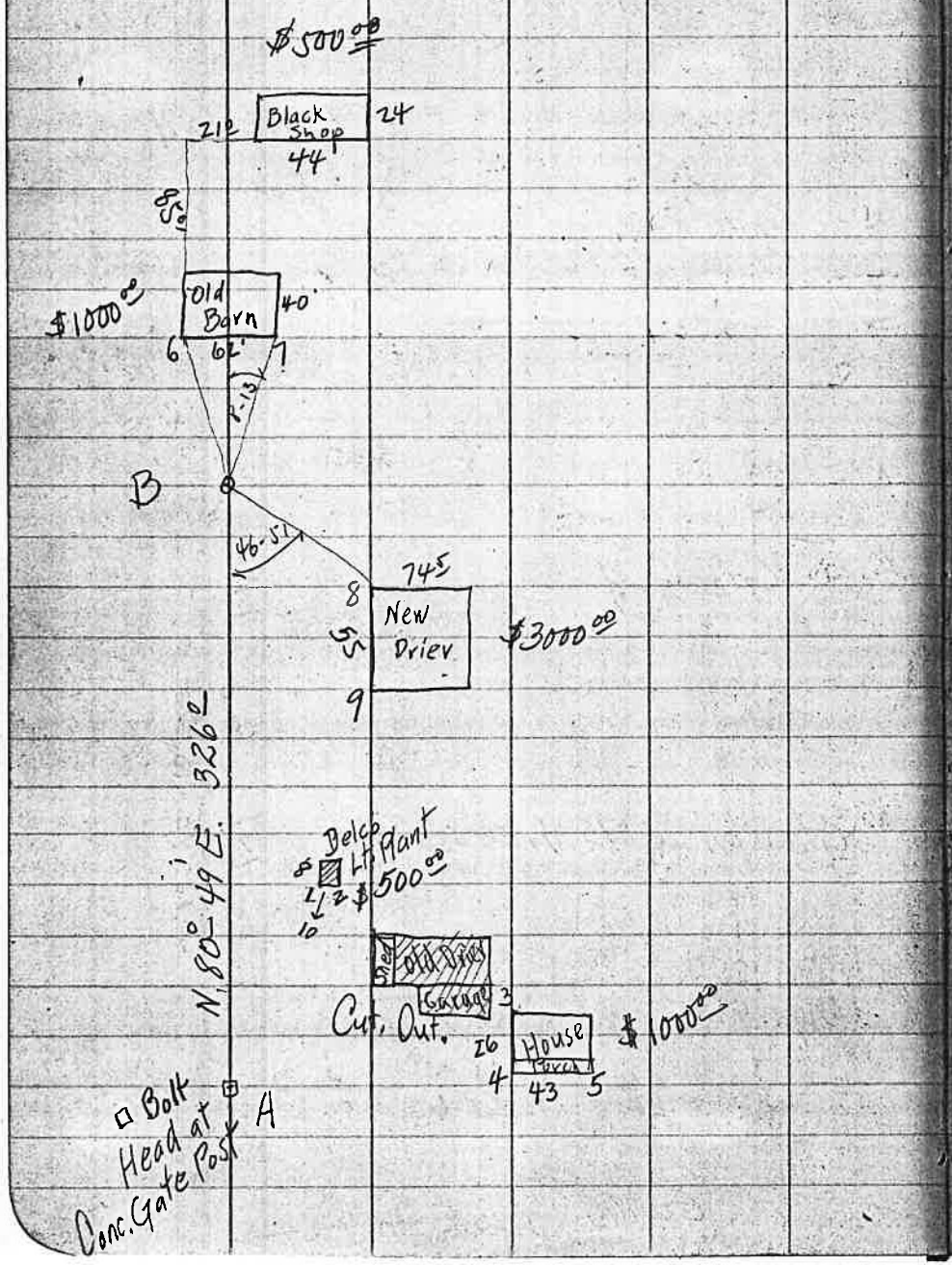
1.000

Feb. 21 -	1 Day Field Work	5.00
" 22 -	1 " " "	5.00
1. R.T. to Sutherlin		.86
Recording Survey		1.00
	Total = $	11.86

.105 = St. Johns Share	= $	1.25
$\frac{1}{2}$ = Ed. Halls "	= $	5.93
.395 = L.J. Gleason Et. al	= $	4.68
	Total = $	11.86



H. A. Winston Bldg Location



:8

Transit at A Pt. No. Dist.

F.S. to B.

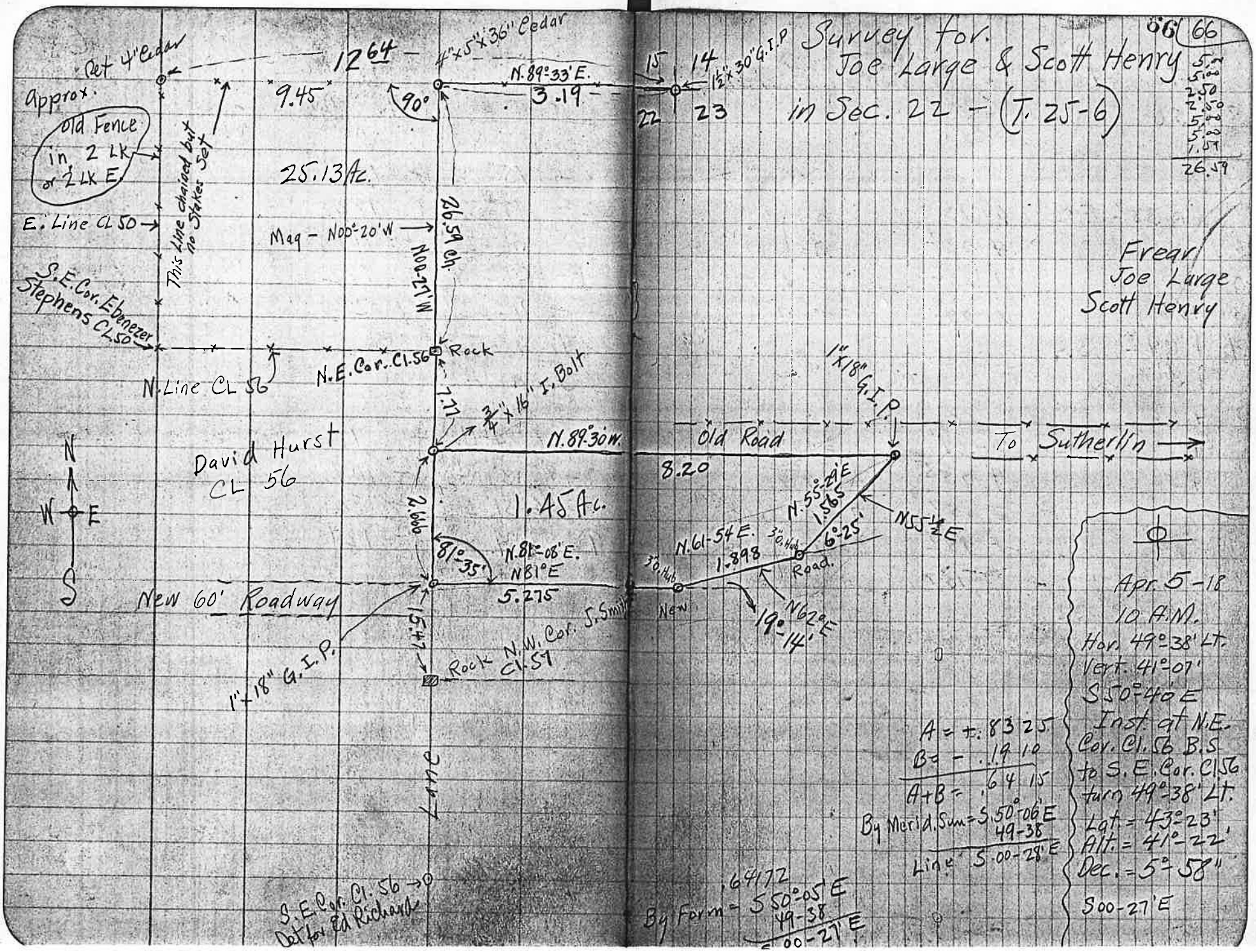
1 - 15°-02' Rt - 181
2 - 17°-37' Rt - 183
3 - 56°-26' Rt - 194
4 - 64°-39' Rt - 172
5 - 71°-03' Rt - 210

Transit at B.

B.S. on A

6 - 26°-34' Lt. - 97
7 - 8°-13' Rt. - 107
8 - 46°-51' Lt. - 80
9 - 27-19. Lt. - 124

Survey for Joe Large & Scott Henry in Sec. 22 – (T. 25-6)



A = +.8325
B = –.1910
A+B = .6415
By Merid. Sum = S.50°-06' E
49-38
Line S.00-28' E

.6472
By Form = S 50°-05' E
49-38
S00-27' E

Apr. 5-18
10 A.M.
Hor. 49°-38' Lt.
Vert. 41°-07'
S.50°-40' E
Inst. at N.E. Cor. Cl. 56 B.S to S.E. Cor. Cl 56 turn 49°-38' Lt.
Lat. = 43°-23'
Alt. = 41°-22'
Dec. = 5°-58"
S00-27' E

From Pave. To Bridge. E Douglas ST Survey

8 + 50			
+ 38.7	EC	6 13	Δ = 10-26
6		4 03.4	D = 6° Lt
0 + 50		2 33.4	L = 173.9
5 + 00		1 03.4	T = 87.3
4 + 64.8	BC		
+ 50			
3 + 00			
+ 86.3	EC.	5° 31'	L = 195
+ 50		4 45.7	Δ 11° 42
2		3 15.7	D = 6° Lt
+ 50.		1 45.7	T = 97.85
1		- 15.7	
0 + 91.3	BC		
+ 50			
0 + 00			

N 68° 23' E

N 78° 49' E

S 89° 29' E

91.3

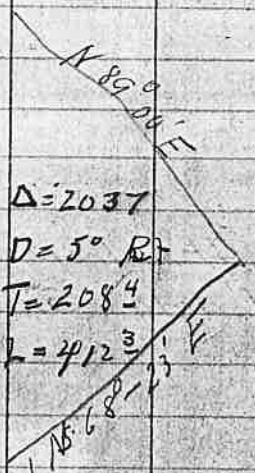
10° - 26"

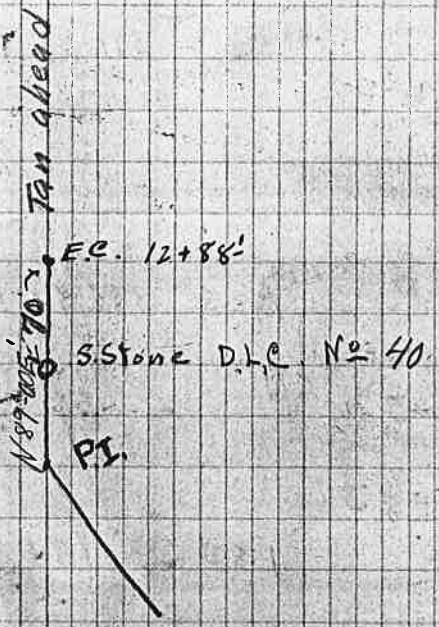
11° 42"

At Extreme E. End of Pave. on East Douglas ST. Set in Cen. of ST. A hub

6868

	Angle Lt	Ang Rt	
31+05 9			
21+80 5		00 07'	N 89° 07' E
+50			
21+00			
12+88 1	EC	10 - 18 5	
+50		9 - 21 3	
12		8 - 06 3	
+50		6 - 51 3	
11		5 - 36 3	
+50		4 - 21 3	
10		3 - 06 3	
+50		7 - 51 3	
9		0 38 3	
+75 8	RC	03 00	
8+50			





Levels on East Douglas St. Road Imp.

0 - 00				1.45	408.70
0 - 50				5.43	404.72
0 + 00				10.1	400.05
	10.15	410.15			400.0
T.P.	0.30	397.35	13.10		397.05
0 + 50				3.2	394.15
+ 91 3/5				8.2	389.15
1 + 00				9.3	388.05
T.P.	0.28	384.65	12.98		384.37
1 + 50				2.3	382.35
2 + 00				7.8	376.85
+ 50				12.8	371.85
T.P.	0.02	371.63	13.04		371.61
+ 86 3/5				2.8	368.83
3				4.0	367.63
+ 50				8.5	363.13
4				13.3	358.33
T.P.	0.25	358.82	13.06		358.57
50				4.4	354.42
64 8/5				5.5	353.32
5				8.9	349.92
+ 50				11.2	347.62
	1.80	347.51	13.11		345.71
6				3.6	343.91

On Pave
" "
" hub
On Top and end of S. Curb E Doug St Pave.

C.R.	
34	368.03
80	363.63
123	359.83
3.7	355 12
~~7.7~~	
7.7	351 12
105	348 32
~~1.9~~	
1.9	345 61

		347.51					C.R.		
6+38 Z				6.00	341.51	343.91	3.6		
7. +00				6.8	340.71	343.7	3.8	Equa. 6+50 Back = 7+00 Ahead	
+50				7.3	340.21	342.6	4.9		
8 +00				7.5	340.01	340.91	6.6		
+50				8.1	339.41	339.71	7.8		
+75 Z				8.96	338.55				
9				10.0	337.51				
+50				12.0	335.51				
T.P.	0.19	334.94	12.76		334.75				
10				2.1	332.84				
+50				4.8	330.14				
11				6.8	328.14				
+50				8.3	326.64				
12				9.5	325.44				
+50				10.6	324.34		9.8	325.14	
+88 Z				11.14	323.80				
13				11.2	323.74		10.2	324.74	
+50				13.1	321.84		12.2	322.74	
T.P.	10.30	332.18	13.06		321.88				
14				12.0	320.18		11.6	320.58	
+50				11.9	320.28		11.5	320.68	
15				9.7	322.48				
+50				6.8	325.38				
16				4.5	327.68				

		332.18				C.R.		
16 + 50				3.1	329.08	2.4	3329.78	
17				1.4	330.78	0.0	332.18	
T.P.	10.54	342.62	0.10		332.08			
+ 50				7.9	334.72	6.8	335.82	
18				4.8	337.82	3.9	338.72	
+ 50				4.1	338.52	3.3	339.32	
19				6.4	336.22	5.4	337.22	
+ 50				7.3	335.32	5.9	336.72	
20				7.3	335.32	5.6	337.02	
+ 50				5.4	337.22	3.8	338.82	
21				2.9	339.72	1.2	341.42	
+ 50				3.7	338.92	1.9	340.72	
T.P.	0.69	339.55	3.76		338.86			
21 + 80±				0.8	338.75	- 0.4	339.15	
22				2.6	336.95	0.2	339.35	
+ 50				3.7	335.85	1.8	337.75	
23				6.1	333.45	2.4	337.15	
+ 50				3.9	335.65	3.9	Rock	
24				8.2	331.35			
+ 50				12.7	326.85			
TP	1.18	328.06	12.67		326.88			
25				5.4	322.66			
+ 50				9.8	318.26	9.3	31876	
26				13.	315.06	11.4	316.66	

7272

		328 06			
T.P.	4.62	320.04	12.64	315 42	
+50			7.3	312,74	
27			7.8	312 24	
+50			6.5	313,54	
28			6.4	313.64	
+50			6.6	313,44	
29			7.0	313.04	
+50			7.9	312.14	
30			7.8	312.24	
⊙ Pt. A		7.65	~~7.65~~	312 39	
29+00	7.02	320 06		313 04	
+50			7.1	312 4	
30			7.12	312 94	
+50			6.74	313 32	
31			4.21	315 85	
+20			3.65	316 41	On End Board approach
+50			0.83	319 23	Bridge — 0 Floor at End of Bridge
⊙ Pt. A.		7.71		312 35	

C. R	
4.7	315.34
5.1	314.94
5.2	314.84
5.4	314.64
6.1	313.94

Oregon - Agricultural Lime Co Survey

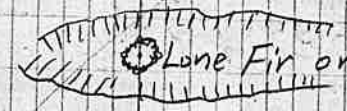
Sta.	Bear.	Dist.

Tramway Alignment Notes

Ore Agric. - Lime Stone Co.

74

Sta.	+	↑	−	R	Elev.
B.M.	0 65	600 65			600 ± on 18" W.O. 60' Rt. Sta. 17+33.
17+33				3 22	597 43
17+00				16 9	583 15
			16 34		584 31
	0 25	584 56			
			16 32		568 24
	0 06	568 30			
16+50				14 1	554 7
			16 46		551 84
	0 00	551 84			
			16 19		535 65
	0 65	536 30			
16+00				6 55	529 15
			16 15		520 15
	0 63	520 78			
15+50				13 6	507 18
			15 63		505 15
	0 24	505 39			
15				13 4	492 0
			16 03		489 36
	0 61	489 97			
			16 18		473 79
	0 25	474 04			
14+50				2 24	471 8
			16 17		457 87
	3 34		14 54 7		



Lime — Rock Ledge

17+33 = End

May. 3-18
Same Party
Warm

Levels
Frear ↑
Jackson Rod
Very Windy
Rodding Poor

558 34 Ft-2"

+ 32.68

Approx 14+20

53

Approx 12+89

530 00 × −1 25
531 0 × −1 25

Approx 7+30

511 42 −4 24

5+10 Approx

492 85 −0 85

0+00

+ 37.21

557.62

474 28 −2 48

Old Stamps

7' → Hub

	+	↑	−	R		Gra		
	0 34	458 21			457 87			
14+00				6 1	452 1	455 71		− 36
			16 38		441 83			
	0 71	442 54						
13+50				7 44	435 1	437 14	+37 14	− 20
			15 94		426 60			
	0 68	427 28						
13+00				7 4	419 88	418 57		+ 131
			15 98		411 30			
	0 44	411 74						
12+50				7 24	404 5	400 00	×	+ 35
			16 39		395 35	401 0		
	0 21	395 56						
12+00				9 85	385 71	384 84		+ 09
			16 42		379 14			
	0 79	379 93						
11+50				13 03	366 9	369 20		− 28
			16 35		363 58			
	0 59	364 17						
11+00				13 73	350 44	354 56		− 412
			16 32		341 85			
	0 81	348 66						
10+50				109	337 76	339 42	+30 28	− 166
			16 25		332 41			
	0 53	332 94						
	5 10		130 03					

	+	下	−	R		Gra.	
10+00		332 94		10 23	322 71	324 28	− 1 57
			16 15		316 79		
	0 69	317 48					
9+50				8 2	309 28	309 14	+ 0 14
			16 25		301 23		
	0 62	301 85					
9+00				8 1	293 15	294 00	− 0 25
			16 00		285 85	295 00	
	1 15	287 00					
8+50				2 5	284 5/	284 66	− 0 16
8+00				9 5	277 5	275 33	+ 2 21
			16 18		270 82		
	0 79	271 61					
7+50				6 95	264 66	266 09	× → Gra.
			16 16		255 45	264 66	
	0 17	255 62					
7+00				6 55	249 07	248 83	+ 0 24
			16 03		239 59		
	0 28	239 87					
6+50				8 0	231 9	230 65	+ 1 24
			16 22		223 65		
	0 61	224 26					
6+00				11 86	212 4	213 00	− 0 6
			16 43		201 83		
	0 09	201 90					
	4 38		129 42				

+30 28 +35 53

76
76

	+	水	−	R		Cira
5+50		207 90		15 3	192 6	195 33 − 2 73
			16 19		191 71	
	0 60	192 31				
			16 07		176 24	+ 35 33
	0 28	176 52				
5+00				4 22	172 30	177 61 + 5 31
			16 00		160 52	
	0 39	160 91				
4+50				3 84	157 01	160.00 162 0 × − 50
			16 47		144 44	
	0 53	144 97				
4+00				2 66	142 31	148 46 − 6 − 2'
3+50				11 −	133 9	136 97 − 3' 0 − 11"
			16 14		128 83	
	0 10	128 93				
3+00				39	125 0	125 46 − 0 46
2+50				13 8	115 −	113 95 + 1 15
			15 90		113 03	
	0 14	113 17				
2+00				10 8	102 37	102 44 Cira
			16 21		96 96	
	0 01	96 97				
1+50				6 −	90 27	90 93 + 23 02 − 0 66
			15 95		81 02	
	2 05		128 93			

	+	下	—	R	
	0 20	81 22			81 02
1+00				1 02	80 00
0+50				13 00	68 27
			16 27		64 95
	0 91	65 86			
0+00				9 51	56 35
B.M.			7 88		57 98
	2 89	602 89			600 00
17+60				0 36	602 53
17+45				3 55	599 34
17+30				6 80	596 09
17+15				11 36	591 53
17+00					
	111		84 15		

78-18

Grd

79 42 +06

67 96 +23 02 +03

56 4 +0

On 48" W.O. 5' Lt. Sta. 0+00 Nail

Grd

592 0 = C 10'-6"

590 5 C 8'-10"

14 0 588 9 589 0 C 7'-1"

15 9 587 0 586 0 C 5'-6"

22 2 580 7 580 7 - Grd.

×

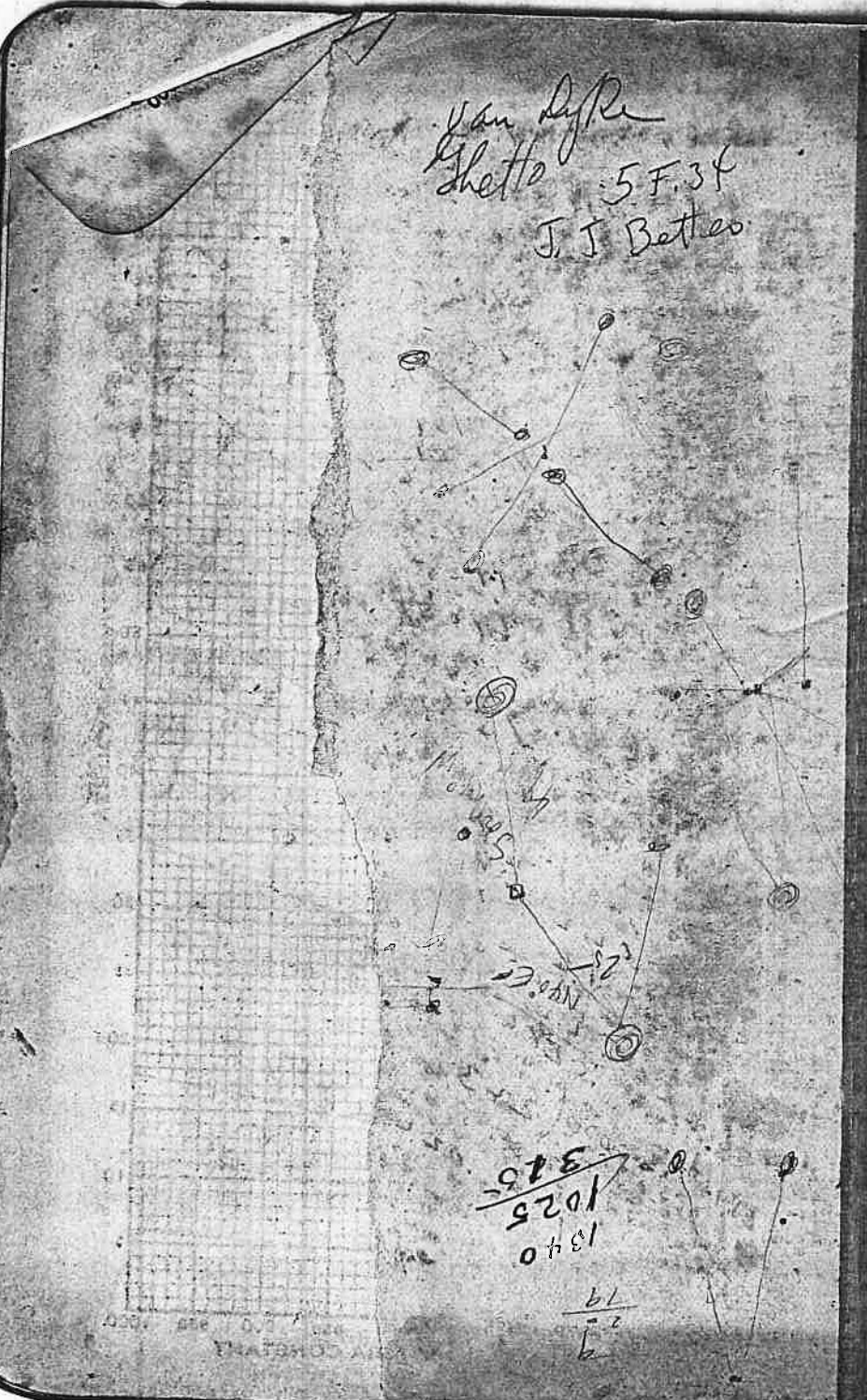
10%

×

Description for H.Merten.

To vacate certain portions of First Street in "Terrace Park Addition" to the City of Roseburg,Oregon and described as follows:-

A strip of land 5 feet in width lying south of and parallel to the south side of Block I, of Terrace Park Addition, also,a strip of land 5 feet in width lying north of and parallel to the north side of Block 2 of Terrace Park Addition to Roseburg Oregon.



DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½.

For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	25.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in above for 20 ft. roadbed distance will be 41.9 + (20—16) ÷ 2 or 2 ft. added to 41. For slopes of 1 on 1 see inside of front cover.

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