

1 T142N R30W
Sec. 29

RUN RANDOM LINE WEST FROM SW 1/4

STA

offsets
to T.L.

13+20

2.52' S ✓

10+10

1.93' S ✓

7+30

1.39' S ✓

4+90

0.94' S ✓

1+10

0.21' S ✓

0+00

0 ✓

1/12/81

Warm, Calm, Sunny

C. Mairjame π

B. Olson

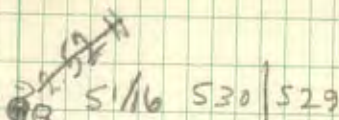
L. Wittkoett

R. Kargel

S. Heilbert

1

Nat'l
Forest



HIT 2.52' NORTH



S 1/16 S 30 | 529

pt. ④

pt. ③

pt. ②

pt. ①

N 87° 25' W

20.30 ch

1339.8'

SW 1/4 S 29

SW 1/4

2

T142N R 30W

Sections 30 & 29

0+00

0 ✓

2+60

1.65' E ✓

5+60

3.55' E ✓

8+40

5.33' E ✓

11+40

7.23' E ✓

13+30

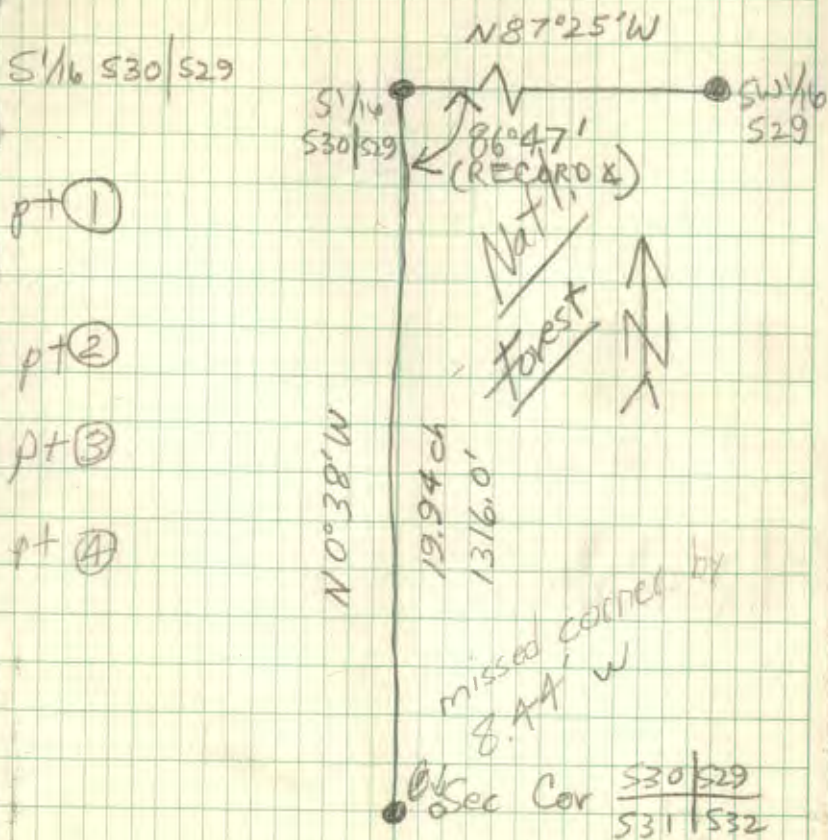
8.44' ✓

1/12/81

Clear, Calm, Warm

B. Olson P.C.
C. Maarjama X
L. Withnott
R. Kugel
G. Hurlbert

2



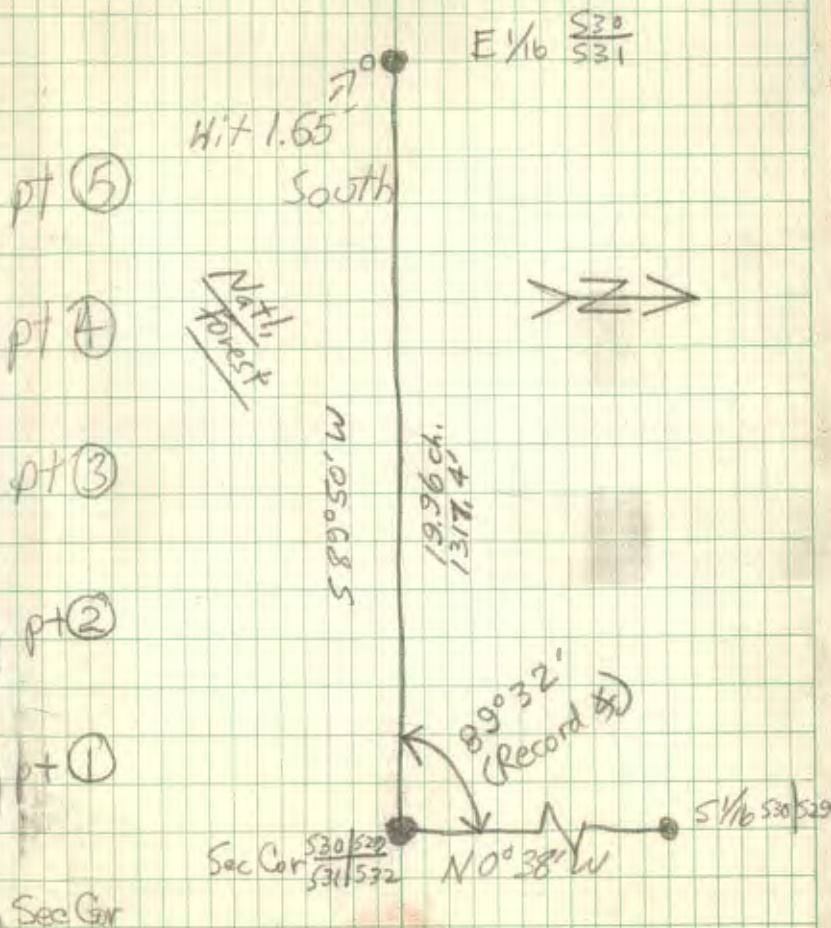
3

T142N R30W
Sections 30 & 31

<u>STA.</u>		Offsets <u>to T.L.</u>	
13+70 13+10		1.65' N	✓
11+10	.85' N	1.40' N	✓
9+10	.69' N	1.15' N	✓
6+90	.55' N	0.87' N	✓
4+00	.51' N	0.50' N	✓
2+20	.28' N	0.28' N	✓
0+00		0	✓

1/13/81
Cloudy, Calm, Warm

B. Olson RC,
C. Maarjama T 3
L. Wittsoeft
P. Soehring
S. Hurlbutt



4

T142 N R30W
Sections 30 & 31STA.offsets
to T.L.

6+60

0.71' N ✓

4+90

0.53' N ✓

2+90

0.31' N ✓

0+00

0 ✓

1/17/81

cloudy, Cool, Calm

B. Olson P.C.

C. Marjama π

F. With soft

P. Bohring

D. Seins

S. Hurlbut

A.P. 2 TR 1692

H. 10.7' ²⁰ SOUTH

A.P. 2 TR 1692

pt ②

pt ①

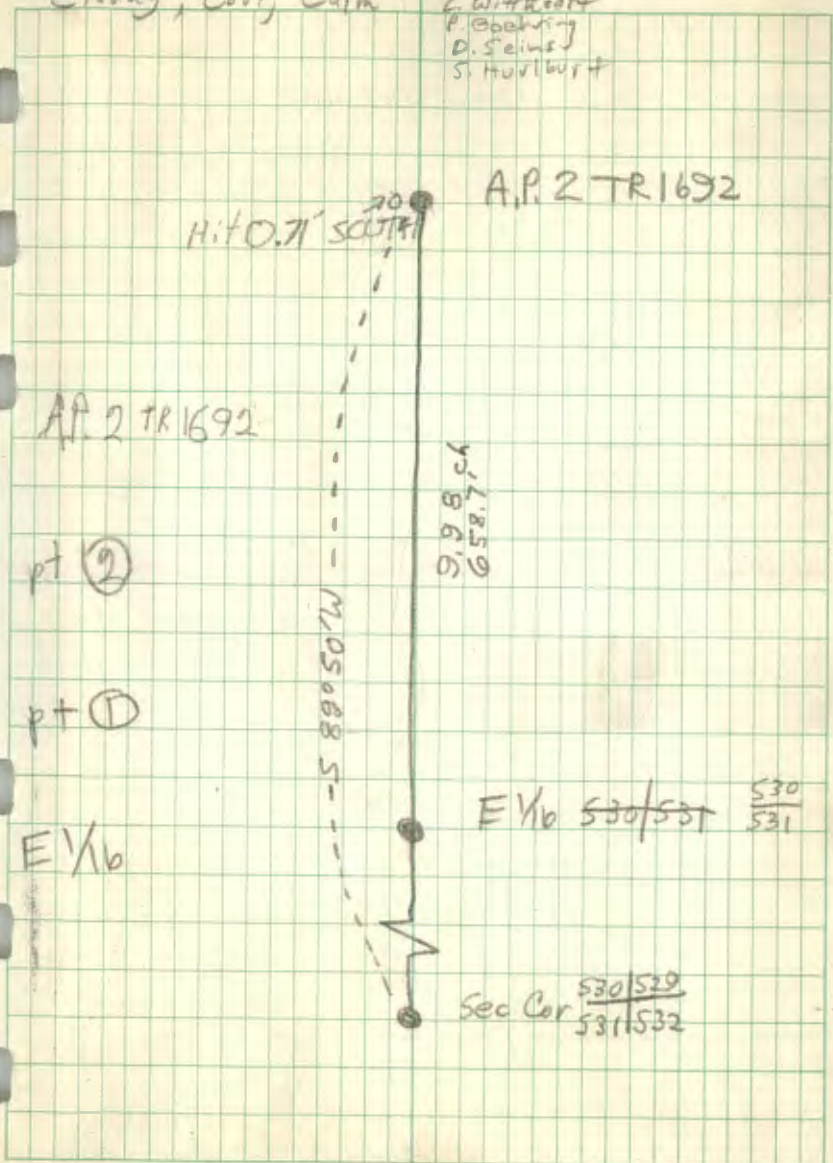
9,98.7, ch
658.7

M 05068 S

E 1/6 ~~530/531~~ $\frac{530}{531}$

E 1/6

Sec Cor $\frac{530}{531}$
531/532



5 T142N R30W
Sec. 31

STA. (if overtop) Vert. x COR. offsets
STA. to T.L.

0+00

0

✓

1+00

~~0.27'E~~

~~.27'E~~

3+80

~~1.04'E~~

~~1.02'E~~

~~8+75~~

7+75

~~2.12'E~~

~~2.09'E~~

✓ ✓

~~11+45~~

10+45

~~3.86'E~~

~~2.82'WE~~

13+35

~~3.66'E~~

~~3.60'E~~

3.66'E

✓

~~1/16/81~~ 1/16/81

B. Olson P.E.
C. Maarjaama
L. Withhoef

5

AP2

AP2 TR1692

589°50'W

E 1/6 $\frac{530}{531}$

AP2 TR1692

pt ①

pt ②

pt ③

pt ④

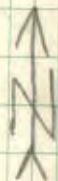
AP3 TR1692

N 0°03'E

12.875h
13/11.4h

90°13'
(Record \times)

Natl. Forest



AP3 TR1692



~~HIT 3.66 WEST~~
3.66

HIT 3.66' WEST

6

T142N R30W
Sec. 31

<u>STA</u>	<u>Vert. %</u> (if over 10°)	<u>COR.</u>	<u>offsets</u>
		<u>STA.</u>	<u>to T.L.</u>
6+60			4.06'S
4+15			2.55'S ✓
3+90			
2 90			
1+25			0.77'S ✓
0+00			

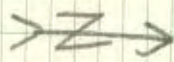
1/16/81

C. Manjamma T
L. Withhoef T

6

Ht 4.06' N

● CN 1/16



Natl.
Forest

CN 1/16 S.31

pt ②

N 89° 53' W

10.03 ch.
661.98'

pt ①

89° 56'
(Record 4)

AP3

AP3 TR 1692

N 0° 03' E

AP2 TR 1692

Natl.
Forest

7

T142N R27W
Sec. 27

(by Stadia)

~~SL~~

STA

0+00

5+40

5 - 60

11+00

11+70

1/20/81
clear, Calm, Warm

B. Olson
C. Marjamaa
V. Seims
P. Gering
E. Hurlbut } axemen

SWIFT
LAKE

180°

pt. on approx.
line thru center

pt ①

①

pt ②

②

Approx 1/4 COR 527/526

backsite

8

T142N R27W
Secs. 27 & 26

TRAVERSE w, F. D. M.

ED.M.

STA	HOR. 1st \angle	HOR. 4th \angle	Mean \angle	Vert. \angle	Meas.
	180°			90° 54'	537.33
①	180°			270° 58'	561.44
②	180°				
	^(CW) Apprx. $\frac{1}{4}$ COR Sec 27 90° 53' 47" 89° 06' 13"		90° 53' 47" 89° 06' 13"	temp. = 20° Chained Dist. 69.83 269° 28' 89°	199.05
③	180°			89° 55'	866.71
④	180°			90° 14'	587.39
⑤	180°			91° 30'	704.92
⑥	^(CW) 179° 56' 42"	359° 46' 54"	179° 56' 43"	89° 27'	315.67
	^(CW) NE COR S27 2" I.P. 91° 46' 54"	7° 08' 00"	91° 46' 60"	90° 45'	117.91

Schneiders SPIKE

No. 302

W. A. THERPPOD

A. L. DARLING CORP.
TACOMA, WASH. U.S.A.

1/21/81

Clear, Calm, Warm

B. Olson X

C. Marjamaa

D. Seims

P. Goaring

S. HURBERT

axemen

8

COR.
DIST.

Referenced
BY:

537.26

561.36

69.81

9" BIRCH 15.61' S.
9" BIRCH 17.33' EWT

199.04

866.71

587.39

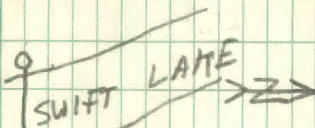
704.68

315.66

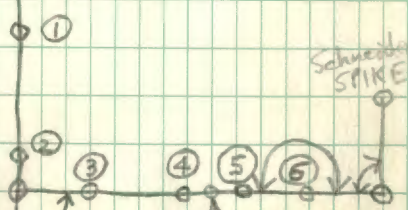
Schneider's BT's
OK

117.90

SKETCH



at on approx.
line thru center



backsite
20°53'27"

Extra Pt.
Near N 1/4
STA Vert & EDM. cor.

④ 269°38' 278.25

Extra Pt

9

T142N R27W
Secs. 26 & 23

Traverse w. E.D.M.

E.D.M.

STA	HOR. 1 st x	HOR. 4 th x	Mean x	Vert. x	Meas.
-----	------------------------	------------------------	--------	---------	-------

(6)

NW. COR. S26	^{CCW} 88°45'31"		88°45'31"	270°12'	507.59
--------------	--------------------------	--	-----------	---------	--------

(7)

180°				89°06'	647.89
------	--	--	--	--------	--------

(8)

180°				266°32'	533.74
------	--	--	--	---------	--------

(9)

180°				90°24'	585.77
------	--	--	--	--------	--------

(10)

180°				88°05'	365.69
------	--	--	--	--------	--------

(11)

^{CW} 80°20'06"	321°20'24"	80°20'06"		89°11'	110.30
-------------------------	------------	-----------	--	--------	--------

N. Trav. Pt. ^{CW}	1°24'00"	5°36'06"	1°24'01"		
----------------------------	----------	----------	----------	--	--

				89°33'	382.26
--	--	--	--	--------	--------

S. Trav. Pt.

No. 302
 J.L. DARLING CORP.
 TACOMA, WASH., U.S.A.
 WEATHERPROOF

1/27/81

P. Cloudy, Windy, Cool

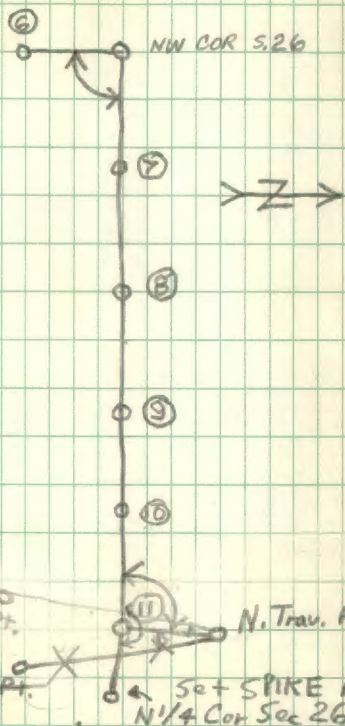
B. Olson &
C. Marjamaa
D. Seims
P. Goehring } axemen
S. Hurlbutt

9

COR.
DIST.

315.66

SKETCH



EXTRA SHOT

STA	HOR. \angle	Temp	CHAINED DIST.	COR. DIST.
(10)				
(11)	CW 188°33'30"	15°	51.60	51.60
N/4 S. 26				

10

T142N R30W

Section 19

offset

to T.L.

STA

~~0+~~

13+30

9+70

5+20

~~5+20~~
(45)

2+70
(75)

0+00

2/5/81

B. Olson P.C.

10

Cloudy, Cool, Calm

D. Seims X

P. Goehring } axemen

S. Hurlburt }

HIT 43.10 W

↓ SE 1/4 S. 19

SE 1/4 S. 19

pt 4

pt 3

Natl. Forest Land

pt 2

NORTH

20,000 ch.
1320,0

pt 1

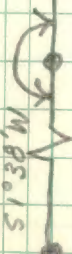
E 1/4

178°22'
(Record 4)

E 1/4 S. 30

S 1°38' W

NE 1/4 S. 30



11

T142N, R30W S.31

STA

OFFSETS TO

I.L.

0+00

0 ✓

0+95

✓ 0.58' W

3+45

✓ 2.10' W

5+60

✓ no post
needed

3.48' W

5+95

3.63' W

6+55

4.00 W ✓

pt ③ 86' (rough chained)
short of corner

2/9/81

clear, cold, calm

B. Olson P.C.

D. Siems *

C. Marjamae

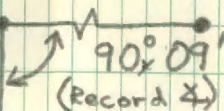
A. Goehring

R. Kargal

11

EN 1/16 S. 31

N 89° 53' W



PT ③ ①

PT ② ②

N 0° 16' E

9.94 ch
656.0

National
Forest
Land

PT ④ ③

PT ④

ENS 1/64 S. 31

R_{HIT} 4.00' E

42-395
56

12

T 142N, R 30W

S. 31

STAOFFSETS
TO T.L.

13+25

✓

13.54'S

13+45

11+75

✓

12.01'S

10+20

✓

10.42'S

7+10

✓

7.26'S

4+65

✓

4.75'S

2+00

✓

2.04'S

0+00

0

2/12/81

Clear, Cold, Calm

B. Olson P.C.
D. Siems T
C. Margamaa
R. Kargel

12

CSNW $\frac{1}{64}$
S. 31

HIT 13,54' NORTH

pt ⑤

pt ④

pt ③

pt ②

pt ①

National
Forest
Land

#

420.05
S 89° 59' W



90° 17'

(Record 3)

CSNW $\frac{1}{64}$
S. 31

N 0° 16' E

13

T142N R30W S. 31

STAOFFSETS TO
T.L.

1+85

3+40

5+25

1.10' W ✓

3+70

2.21' W ✓

5+35

3.19' W ✓

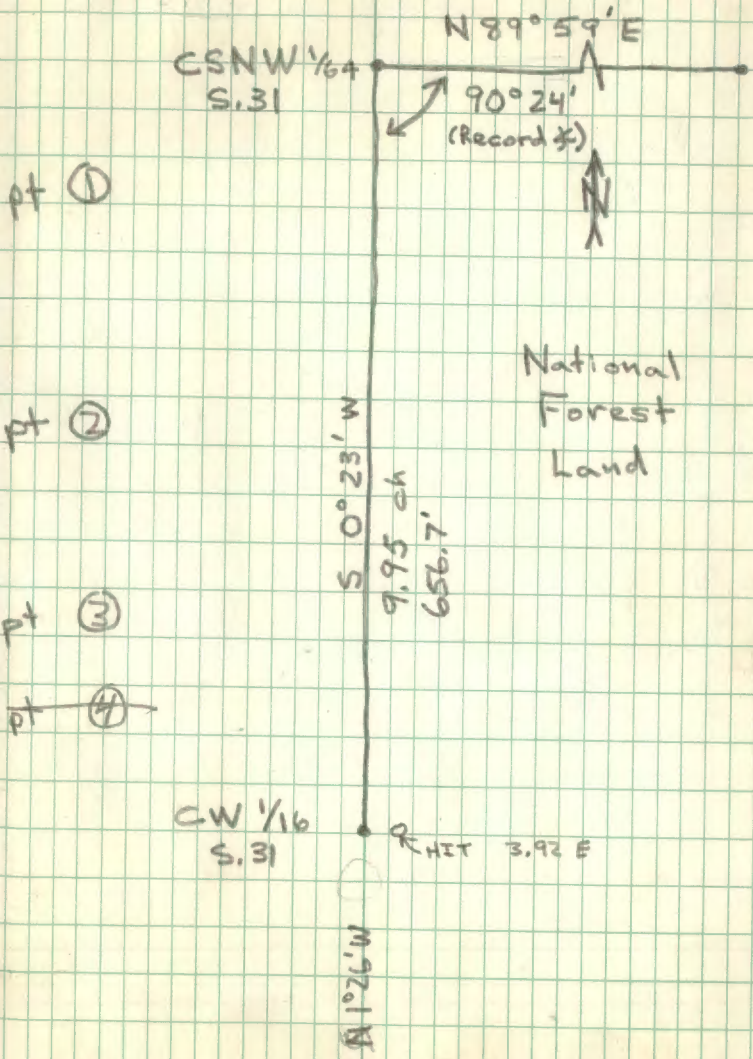
6+55

3.92' W ✓

2/19/81

Partly Cloudy, Warm, Light Breeze

J. Siemsk/3
R. Kargel
C. Margamaa
S. Hor/bert



T142N R27W
Sections 33 & 34

Traverse w. E.D.M. - Swift Lake

STA	HOR. 1 st &	HOR. 4 th &	Mean &	Vert. &	E.D.M. meas.
-----	------------------------	------------------------	--------	---------	--------------

SPK.
S. Side Rd.

PT ①	85°46'59"		85°46'59"	268°43'	144.97
------	-----------	--	-----------	---------	--------

PT ②	180°		180°	91°07'	690.10 690.03
------	------	--	------	--------	------------------

PT ③	180° 180°			269°53'	592.36
------	-------------------------	--	--	---------	--------

PT ④	180°			88°59'	753.21
------	------	--	--	--------	--------

PT ⑤	180°			87°51'	302.86
------	------	--	--	--------	--------

PT ⑥	^{cu} 179°30'36"	358°03'00"	179°30'45"	265°42'	105.25
------	--------------------------	------------	------------	---------	--------

1/4 COR.

No. 302

W. L. DARLING CORP.
WEATHERPROOF

J. L. DARLING CORP.
TACOMA, WASH. U.S.A.

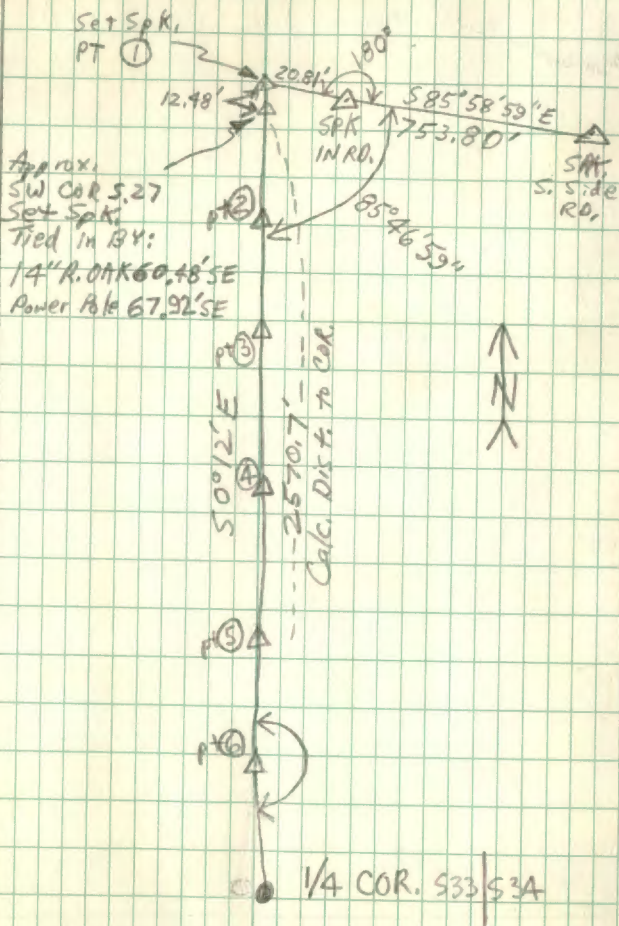
2/23/81

Cloudy, Windy, Cool

B. Olson &
C. Marjamaa } axemen
R. Kargel }
S. Hurlburt }
LIETZ

14

COR.
DIST.



15

T142N R27W
Section 26

Traverse w. E.D.M. - Swift Lake

<u>STA</u>	<u>HOR. 1st X</u>	<u>HOR. 4th X</u>	<u>Mean X</u>	<u>Vert. X</u>	<u>E.D.M. Meas.</u>
⑩					
⑪	180°			89° 23'	189.08
⑫	180°			267° 22'	385.26
⑬	180°			269° 27'	665.40
⑭	180°			85° 29'	293.20
⑮	180°			270° 29'	291.63
⑯	180°			95° 00'	294.72
⑰	175° 49' 48"	355° 19' 06"	178° 49' 46"	90° 26'	555.15

Sec. Cor.

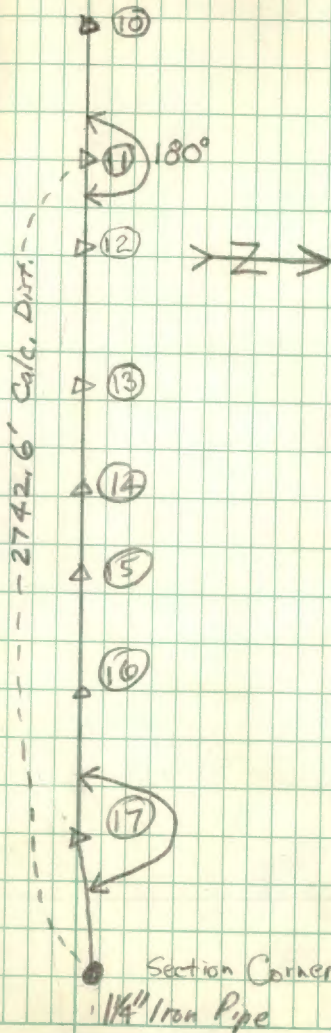
2/2+18t 3/4/81

Clear, Calm, Warm

B. Olson X
D. Seims
C. Marjamaa
S. Hurlburt
~~R. Kargel~~
F. Tabeka

15

COR.
DIST.



~100' to Survey
68 short

16

T 142N R 30W S, 31

STA

OFFSETS
TO I.L.

1+00

1.69'E

4+40

~~4+40~~

4.81'E ✓

6+55

7.19'E ✓

7.19

$$\begin{array}{r} 4.81 \\ 3163 \\ \hline 2630 \\ 451 \\ \hline 240 \\ 900 \end{array}$$

$$\begin{array}{r} 7.19 \\ 655 \\ \hline 474 \\ 900 \end{array}$$

$$\begin{array}{r} 4.81 \\ 3163 \\ \hline 2630 \\ 451 \\ \hline 240 \\ 900 \end{array}$$

$$\begin{array}{r} 4.81 \\ 3163 \\ \hline 2630 \\ 451 \\ \hline 240 \\ 900 \end{array}$$

$$\begin{array}{r} 7.19 \\ 655 \\ \hline 474 \\ 900 \end{array}$$

316260

No. 302
 L. L. DARLING CORP.
 WEATHERPROOF
 WASHINGTON, WASH. U.S.A.

2/25/81

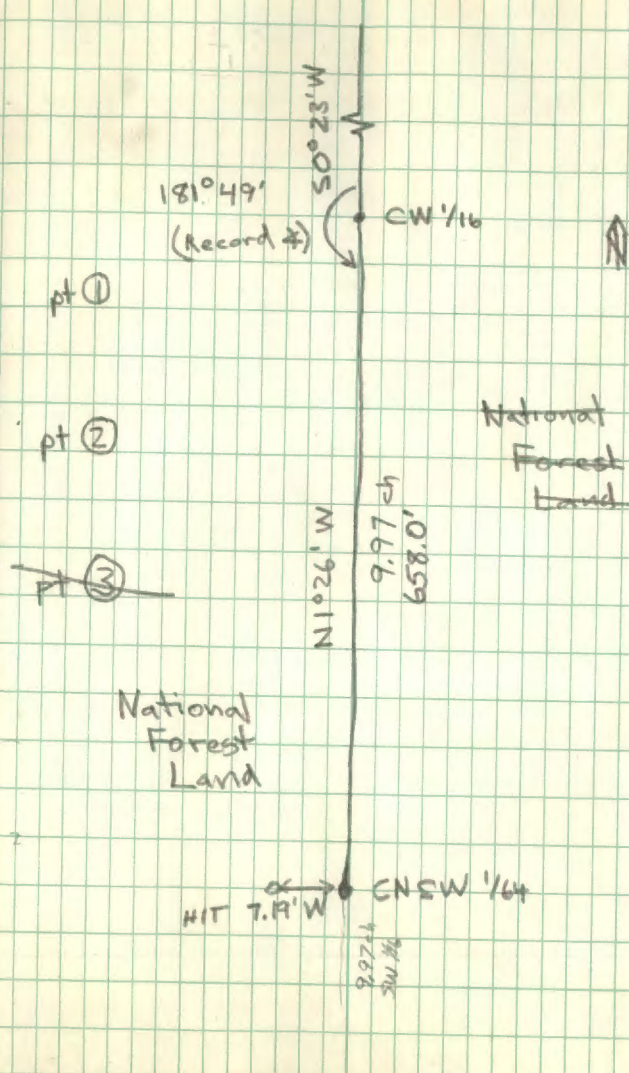
Clear, Light Breeze, Warm

D. Siems R 16

B. Olson P.C

G. Marjamaa

S. Hurlbert



17

T 142N R 30W S. 31

STA

OFFSETS TO
T.L.

1+90

0.02' E

3+85

0.04' E ✓

~~5+85~~

6+55

0.06' E ✓

2/26/81

Partly Cldy, Breezy, Cool

B. Olson P.C. 17
D. Siems T
C. Marjamaa
S. Huribert

ENSW 1/64

180°
(Record 5)



pt ①

National

Forest

pt ②

Land

N 1926' W

9.97 ch
658.3'

pt ③

National
Forest
Land

SW 1/16
HIT 0.06' W

18

T 142 N R 30 W S. 31

STAOFFSETS TO
T.L.

3+30

-

5+65

-

8+60

-

10+55 offset 1.00'E

-

13+10 offset 1.00'E

-

~~13~~

13+30 offset 1.00'E

-

2/26/81

Partly Cldy, Cool

B. Olson P.C.
D. Siems T
C. Marjamaa
S. Hurlbert

18

SW 1/16
180°
(Record X)



pt ①

pt ②

pt ③

pt ④

pt ⑤

National

Forest

Land

N 1026' W
19.94 ch

National
Forest
Land

W 1/16
HT 110'E (Actual 0.10'E)

19

T142 N R 30 W. S. 31

	<u>STA</u>	<u>OFFSETS TO</u> <u>T.L.</u>	
pt ①	3+05	3.04'S	✓
pt ②	5+40	5.38'S	✓
pt ③	8+50	8.46'S	✓
pt ④	11+10	11.05' 11.07'S	✓
pt ⑤	C 1/4 S 31 13+70	13.24'S	✓

$$\begin{array}{r} 13.24 \\ \hline 13.27 \end{array}$$

$$\frac{11}{11.50}$$

3/3/81

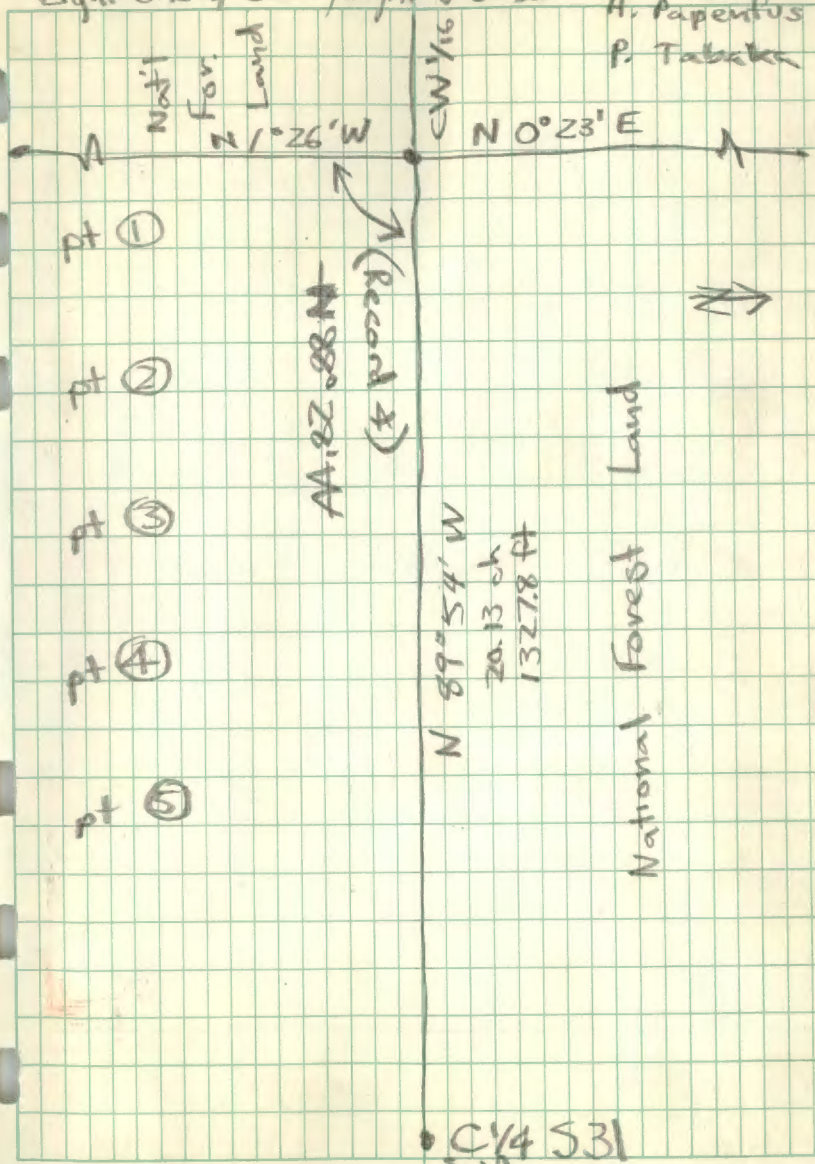
D. Siemski 19

C. Marjamaa

H. Papenfus

P. Tabaka

Light Snow, Cool, Light Breeze



~~N 89° 28' W~~
(Record X)

N 89° 54' W
20.13
1327.8 ft

National Forest Land

C/4 S31

HIT 13.24' N''

20

T142N R30W S31

STA

OFFSETS
TO
T.L.

3+00

0.76 E ✓

5+00

1.27 E ✓

CSN
SNS'64
6+60

Clear, Windy, Cool

D. Siems T20
C. Marjamaa
H. Papenfus
P. Tabaka

Natl
Forest
Land

CW 1/16



CW 1/4 S. 31

N 89° 51' W

89° 50'

(Record 4)



Pt ①

National
Forest
Land

N 0° 16' E

9.91 chains

Pt ②

CS 1/16 S. 31

HT 168 W'

CW S 1/16 S. 31

CSN

21

STA.

OFFsets
to T.L.

2740

0.25 W ✓

4+05

0.42 W ✓

6+60

No. 302

Key-
Weatherproof

J. L. DARLING CORP.
TACOMA WASH. U.S.A.

Clear, Windy, Cool

Dan Siemse # 21
Craig Marjamaa T
Scott Hurlbert
Paul Tabaka

180°

W National
Forest
Land

9.92 chains
N 0° 16'

pt. 2

CS 1/16

hit 0.58' East

CS 1/16

22

T142 N R 30 W

STA

OFFSETS TO
T.L.

3+55

✓

6+55

CORNER

✓

Line runs parallel to 35' wide
clearing (logging road or
powerline?); 4' into clearing
from the north edge

3 MAR 81

Clear, Windy, Cool

C. Marjamaa T 22
D. Siems
P. Tabaka
S. Hurlbert

CS 1/16 CSN 1/16

N 0° 16' E
89° 47'
(Record ~~→~~)



pt ①

National
Forest
Land

pt ②

N 89° 57' W
10.14 ch

hit 0.08' South
by CSCE 1/64

23

T142 N R30W

STA

OFFSETS TO
T_oL

ALL POINTS
SET ON
LINE

2+35

✓

4+30

✓
~~ff~~

6+60

✓

3 MAR 81

Clear, Windy, Cool

C. Marjamaa T 23

D. Siems

P. Tabaka

S. Hurlbert

CS 1/16

180°



CSCE 1/64



pt ①

Forest
Service
Land

N 89° 57' W

10.14 ch

pt ②

SE 1/16

Hit 1.62 North

SE 1/16

24

T142N R30W
Section 31STAoffsets
to T.L.

6+65

31.20'

✓

~~6+50~~

4+85

22.75'

1+50

7.32'

✓

0+00

0

3/10/81

B. Olson
C. Marjamaa
S. Hurlbert
A. Rabeka
R. Kangel

24

WEST ON RANDOM LINE

CEE 1/4 S31

HIT 31.2' SOUTH



CEE 1/4 S31

pt ③

N 89° 54' W

10.07 ch.

pt ②

pt ①

1/4 COR

1/4 COR S31 | S32

25

T142N R30W
Sec. 31

STA

offsets
to T.L.

13+20

3.57' E ✓

~~13+20~~
~~3+45~~

7+95

2.15' E

5+50

1.49' E

2+60

0.70' E

0+00

0 ✓

3/10/81

B. Olson

HT 3.57' West



N 1/16 S31/S32



N 1/16

N 0° 20' W

19.94 ch
1316.0'

③

②

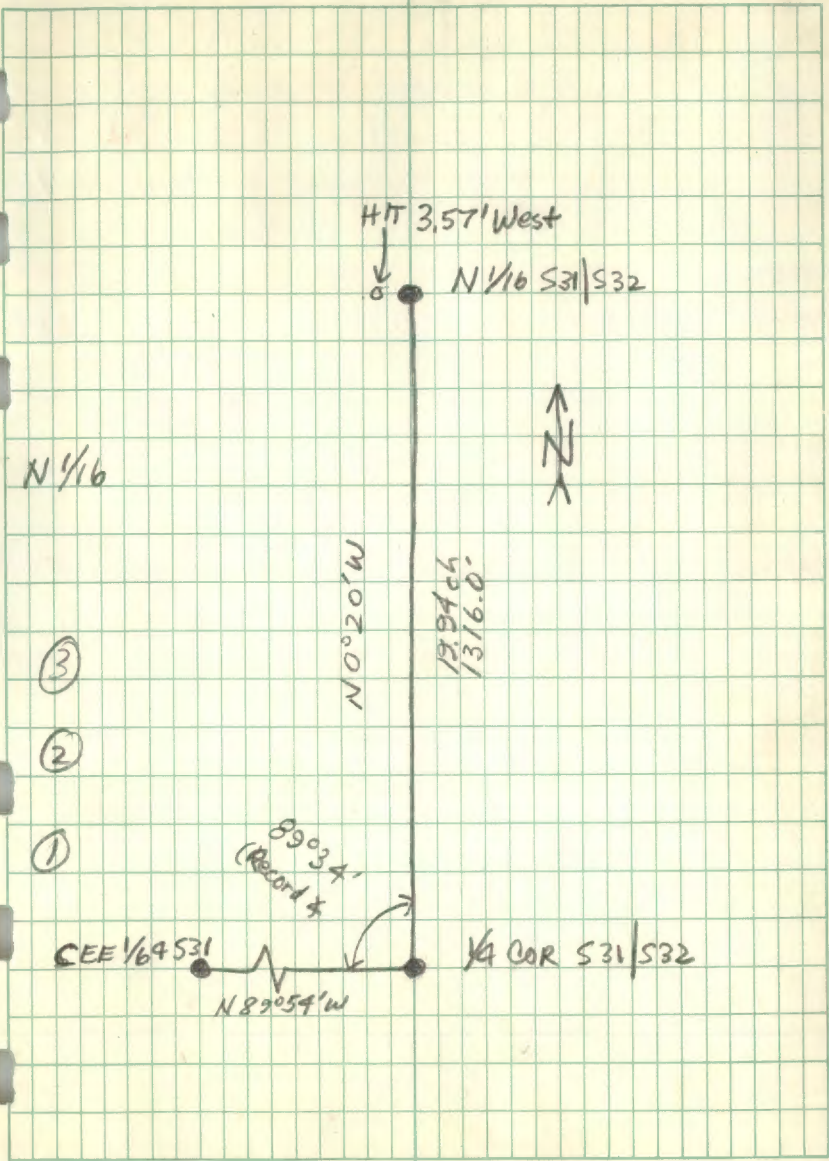
①

89° 34'
(Record 4)

CEE 1/64 S31

1/4 COR S31/S32

N 89° 54' W



26

 T141N R28W
 Section 9

 SURVEY TO ESTABLISH
 TRUE LINE BTWN.

SE 1/16 S.9 and the S 1/16 S.9 | S.10

FOR NORTH COUNTRY TRAIL R/W.

CLOSURE NEEDED 1:3000

STA	Doubled AVG.			Chained	
AT FROM TO	INT. &	INT. &	INT. &	DIST. FWD.	DIST. BACK
1/4					
0 S 1/16	29°51'48"	59°43'12"	29°51'36"		
①				673.84	673.89
S 1/16					
①	95°29'06"	190°57'36"	95°28'48"		
②				891.76	891.76
①					
②	160°42'30"	321°24'48"	160°42'24"		
SE 1/16				255.84	255.84

(CONT. pg. 27)

3/23/81

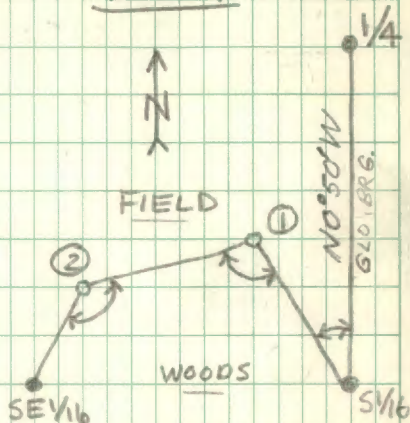
Clear, Breezy, Warm

B. Olson &
 D. Seims } chainmen
 C. Lafond }
 W. Kocurek

26

<u>AVG</u> <u>DIST.</u>	<u>(F°)</u> <u>TEMP.</u>	<u>COR.</u> <u>DIST.</u>
673.86	50°	673.78
891.76	40°	891.59
255.84	35°	255.78

SKETCH



N.C.T. R/W SURVEY
(CONT. FROM pg. 26)

TURN COMPUTED ANGLE
FROM TRAVERSE AT S¹/₁₆ TO SE¹/₁₆

STA	Doubled	Chained	
FROM	AUG.		
AT TO	INT. &	INT. &	DIST. FWD. DIST. BACK
①			
0 S ¹ / ₁₆	58°26'27" (Layed off computed &)		
③		221.80	221.77
S ¹ / ₁₆			
0 ③	180°		
④		469.17	469.22
③			
0 ④	180°		
⑤		462.36	462.36
④			
0 ⑤	179°59'00" 359°58'00" 179°59'00"		
SE ¹ / ₁₆		180.31	180.36
⑤			
0 SE ¹ / ₁₆	45°23'30" 90°47'00" 45°23'30"		
②			

SUM OF CLOSED TRAV. & $\left\{ \begin{array}{l} 540^{\circ}00'09'' \\ 2'' \text{ per } \& (n-2)180^{\circ} = 540^{\circ} \end{array} \right.$

No. 302

Weatherproof

J. L. BARLING CORP. TACOMA, WASH. U.S.A.

3/24/81

Clear, Breezy, Warm

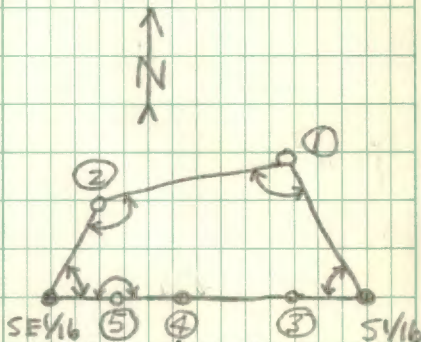
B. OLSON π

27

D. Seims }
 C. Lafend } Chainmen
 W. Kocurek }

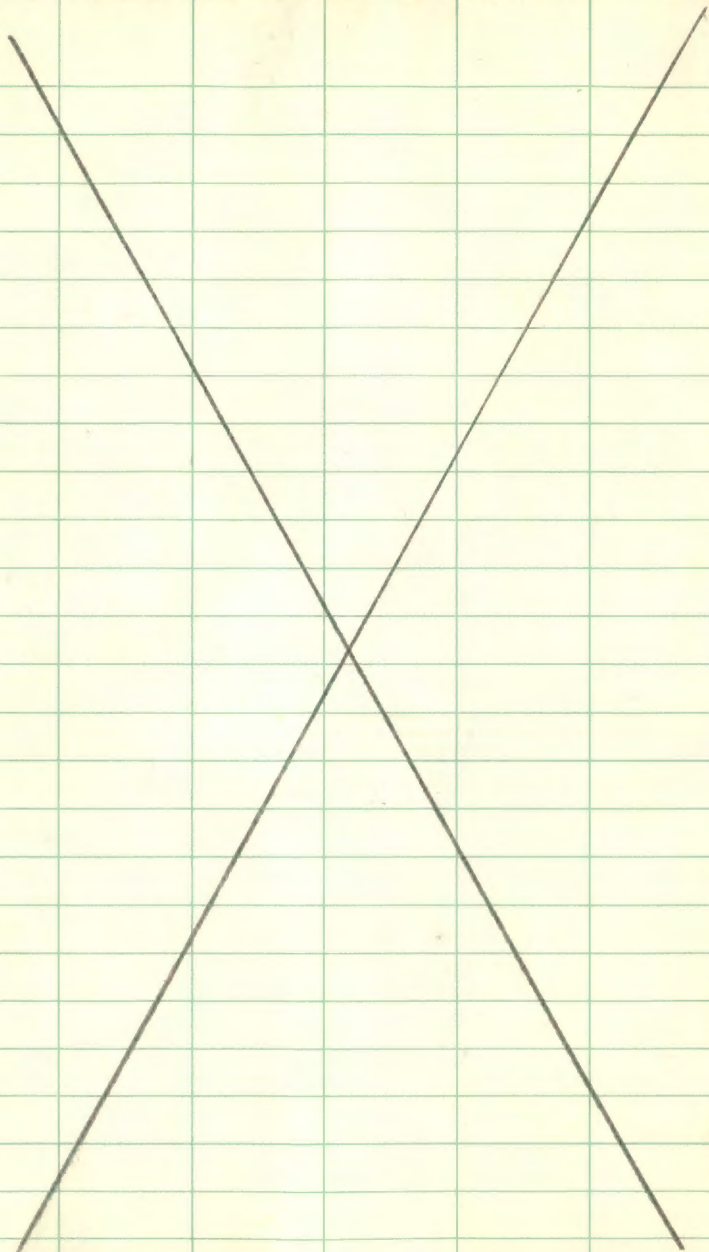
AVG. DIST.	(F°) TEMP.	COR. DIST.
221.78	45°	221.75
469.19		
469.19	45°	469.12
462.36	45°	462.29
180.33	45°	180.30

SKETCH



Referenced By:
 12" J. PINE 7.92' SE.
 8" R. OAK 10.23' S.

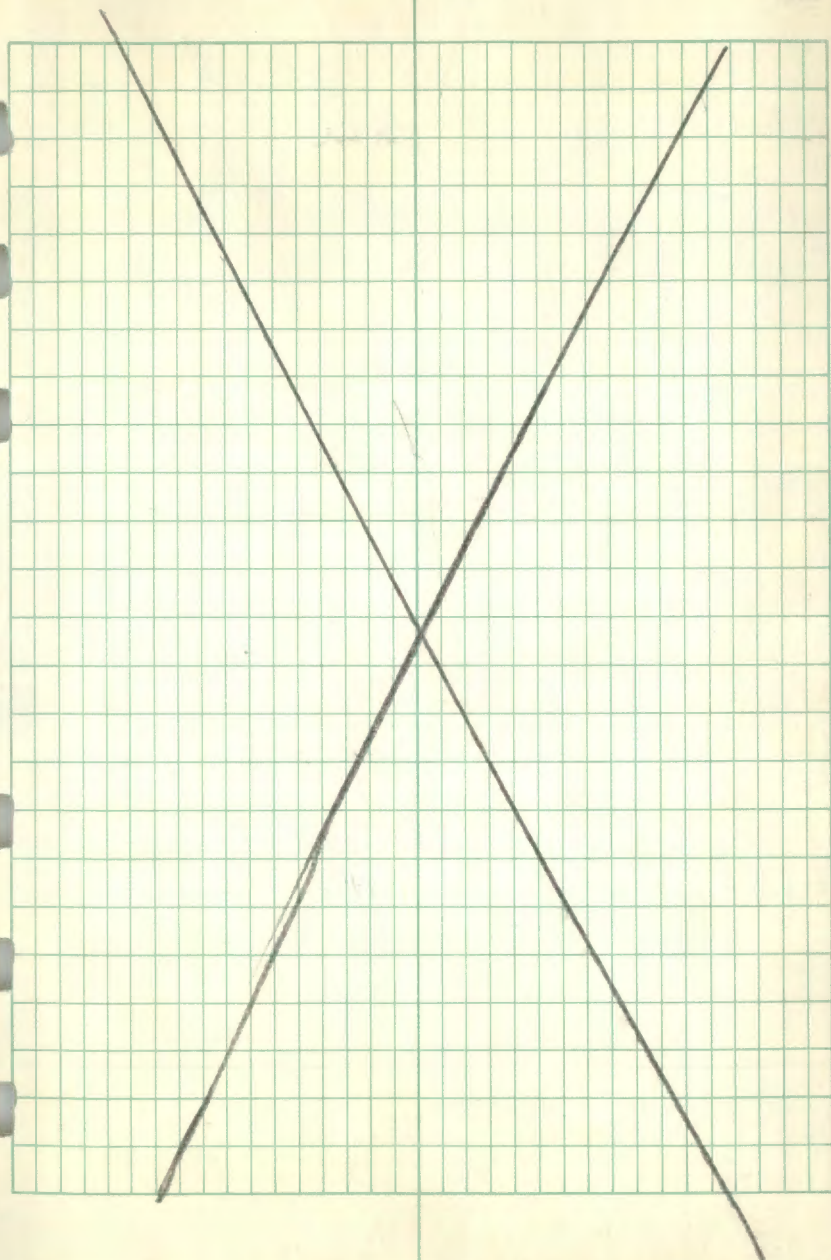
29



No. 302

File in the Rain
WEATHERPROOF

J. L. DARLING CORP.
TACOMA, WASH. U.S.A.



30

T141N R27W
Section 19

STA

offsets
to T.L.

7+65

4+75

1' NS + .68'

0+00

1' NS

Backsight

1' NS

3/27/81

30

Cool, Cloudy, Windy

J. Siems K
C. LaFond
W. Kocerak
R. Kargel

HT

00C 1/4



pt 3

pt 2

pt 1

N 73° 06' W
11.53 chains

offset 1' to miss bearing tree

(Record ~~*~~)
180°

CWE 1/64

CE 1/16

T14IN R 27W
 Section 19

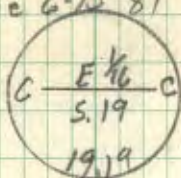
<u>STA</u>	<u>OFFSETS TO</u> <u>T.L.</u>	
1-200	2.01	W
2-400	4.02	W
3-600	6.03	W
4-800	8.04	W
5-1000	10.05	W
6-1200	12.06	W
7-1333.2	13.40	W

1. Steel post at Each Cor.
6. " " 1. at each point
1. Property sign " " "
1. ATention " " " Cor.
- + Property " " " "

6-9-81
L. WITTHOEF

Paul Tabaka
Craig Geving

Finished Redline 6-15-81



PT-1

PT-2

1333.2'
N. 0° 20' E

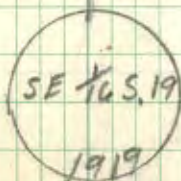
PT-3

PT-4

PT-5



PT6 No good for
Backsite Full of rock



T-141 R-27 sec. 19

STA		moved	of sets to	
			T. L.	
1-	200'		Post	2.94
2-	400'		"	5.89
3-	600'		"	8.83
4-	800'			11.78
5-	1000'			14.73
6-	1170.3'	2 nd post	APPROX C. $\frac{1}{16}$	18.31
			1243.44	17.24
6-	1200	Not set over		
7-	1400	Not set in marsh		
8-	1600	"	Post	23.65 E
9-	1800	"	"	26.5 E
10-	2000	"	"	29.5 E
11-	2200	"	"	32.4 E
12-	2400	"	"	35.4' E
			12 "	

0.01474

Finished Radline
C-24-81

$\frac{1.518}{4.519}$
1919

NC $\frac{1}{16}$

$0 \frac{1}{4} 519$
1919

1243.44

~~1243.44~~

2486.88

~~78.58~~ †

36' W of cor. $\frac{1}{4}$ $\frac{18}{19}$

3/27/81

D. Siems T
C. LaFond
W. Koeurek
R. Kargel

31

Cool, Cloudy, Windy

National
Forest
Land

$N 0^{\circ} 35' E$
18.84 ch
1243.44'

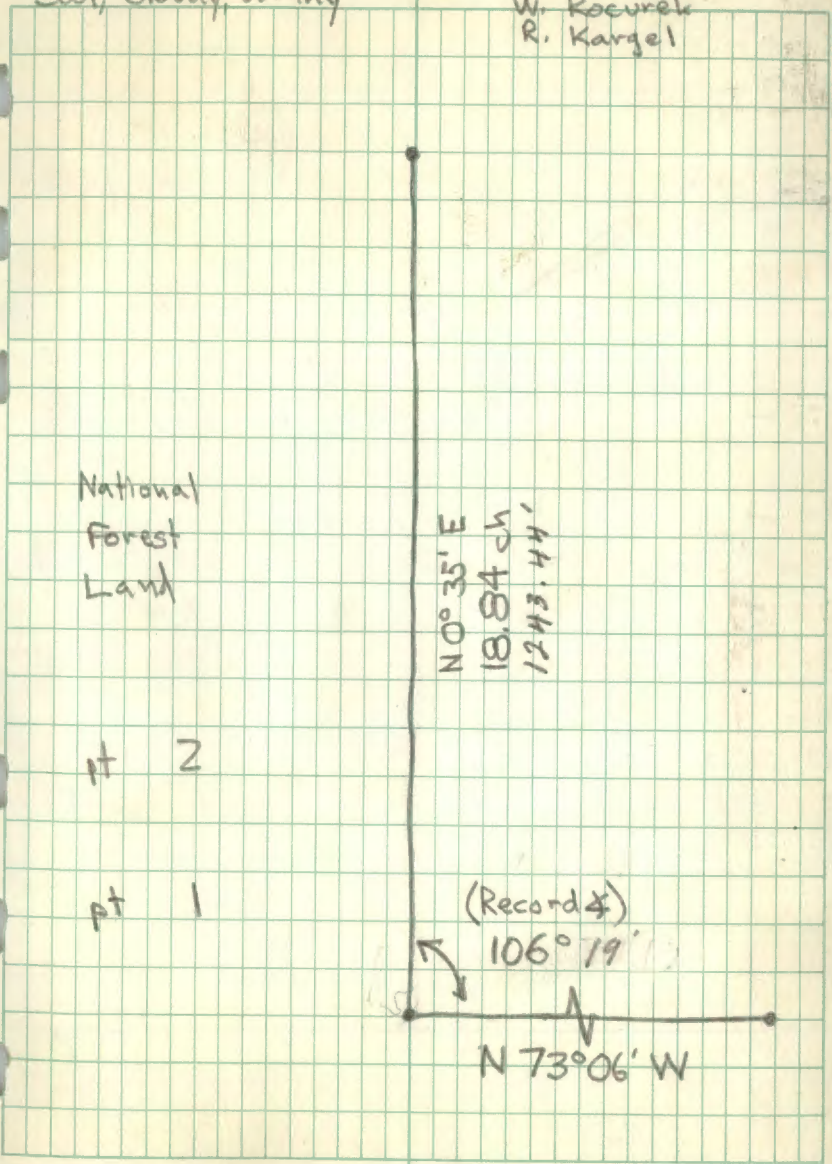
At 2

At 1

(Record 4)

$106^{\circ} 19'$

$N 73^{\circ} 06' W$



32

T141N R31W
Sec 25

<u>STA</u>	<u>Offsets</u>
0+00	0 ✓
1+00	0.66'E ✓
① 3+60	2.39'E ✓
5+60	3.72'E ✓
8+60	5.71'E ✓
11 10 +00	7.30'E ✓
13+ 00	8.70'E ✓

SE 1/16 S. 25

SE 1/16 Conc. Man.

pt ①

pt ②

pt ③

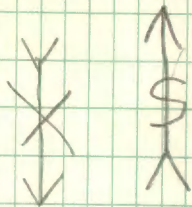
pt ④

pt ⑤

CE 1/16

CE 1/16 S. 25

HIT 8.70' West



33

 T141N R31W
 Sec. 25

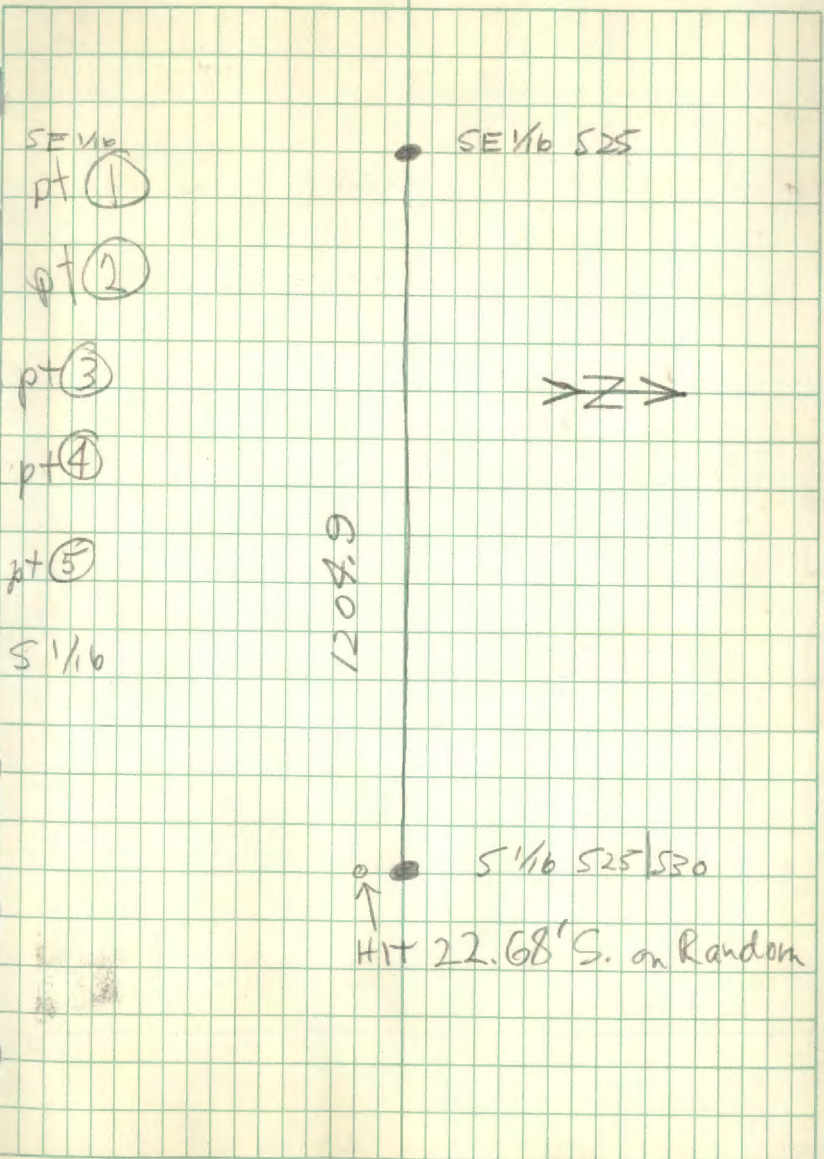
STA	Chained DIST.	Offsets to T.L.	
0+00 1+80 PT	(193.5)	0	✓
	(154.5)	3.58'N	
7+55 3+35	(240.5)	6.47'N	✓
5+75	(133)	10.94'N	✓
9+05	(243.3)	13.42'N	✓
11+60	(254.5)	17.95'N	✓
14+05		22.68'N	✓

 ≤ 1217

4/2/81

B. OLSON *

33



SE 1/4
 pt 1
 pt 2
 pt 3
 pt 4
 pt 5
 S 1/4

SE 1/4 S25

→ Z →

1204.9

S 1/4 S25 S30

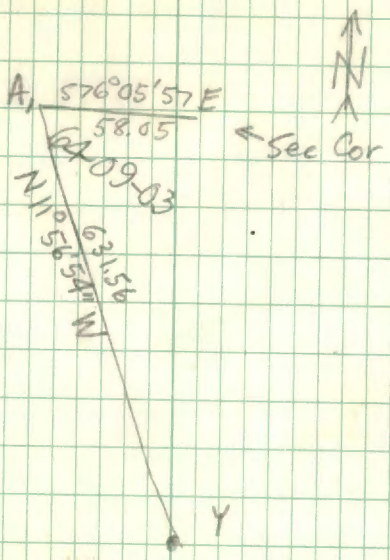
HIT 22.68' S. on Random

34

No. 302

Get in the Rain
WEATHERPROOF

J. L. DARLING CORP.
TACOMA WASH. U.S.A.



T. 142N. R. 30W. S. 19

TRAVERSE TO EST. SE 1/4 Corner Position

STA	FROM	HOR. 1 st Δ	HOR. 4 th Δ	MEAN Δ	Vert. Δ	E.D.M. MEAS.
AT	TO					
	S.M.C.				95-59	153.83
0 pt ①		173-30-06 173-30-06	334-01-30 334-01-24	173-20-22 173-30-21		
	②				89-39	539.29
	①					
0 ②	A.P.	11-53-54	47-35-00	11-53-45	97-39	68.74
	①					
0 ②		179-41-54	358-48-00	179°42'00"		
	③				93-17	474.00
	②					
03		177-35-24 177-35-12	350-22-06 350-22-12	177-35-31 177-35-30		
	Brass Cap				95-26	165.86
	①				97-51	123.22
	②					
03		174°58'36"	339-54-00 174-58	174-58-30		
	④				270-15	951.96
	③					
0 ④	A.P.	22-32-06 22-32-54	90-08-12 90-10-30	22-32-03	96-10	186.48

No. 302
 J. L. DARLING CORP.
 WEATHERPROOF
 TACOMA, WASH., U.S.A.

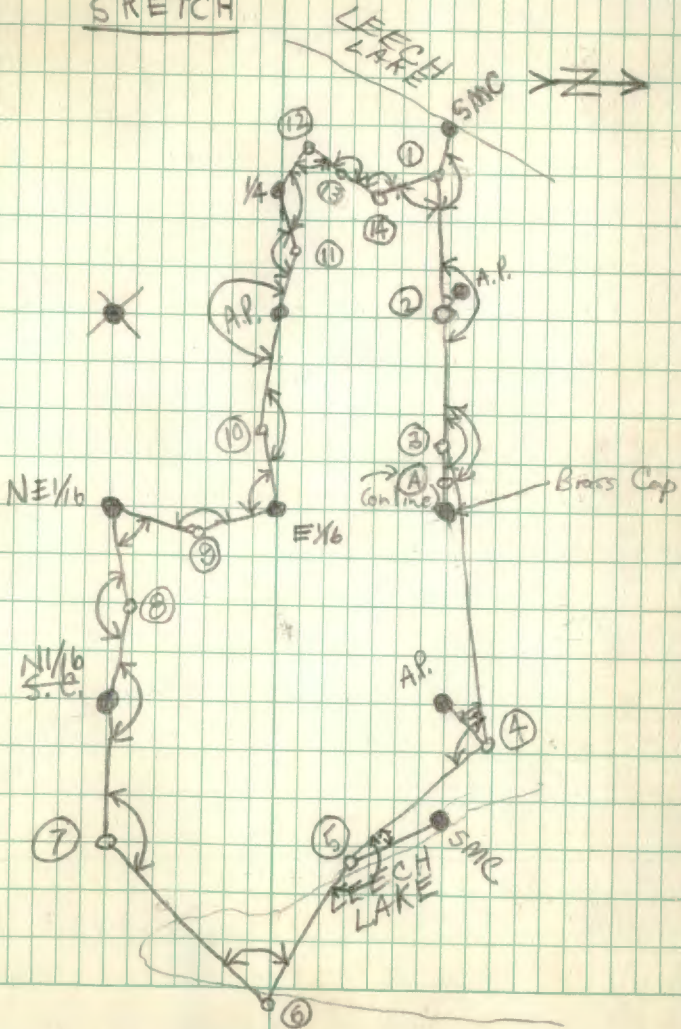
4/30/81

Clear, Warm, Breezy

B. Olson
C. Krause
G. Brama

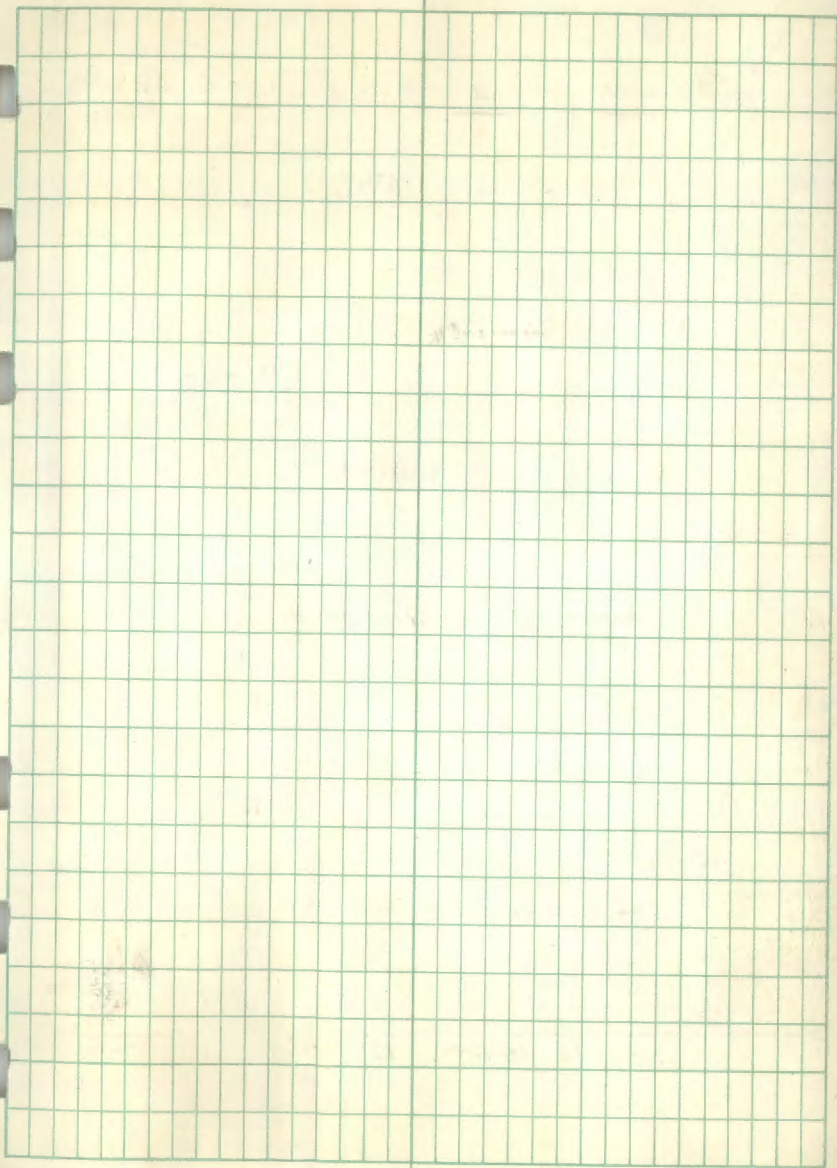
LIETZ T60D Theodolite
H.P. 3800 E.D.M.

SKETCH



36

STA					E.D.M.		
AT	FROM	TO	1 st X	4 th X	Mean X	Vert. X	Meas.
	(3)						
(4)			143-03-00	²¹²⁻¹²⁻⁰⁰ 147	143-03-00		
	(5)					92-03	489.90
	(4)						
(5)			26-18-12	105-12-06	26-18-01		
	S.M.C.					90-07	194.96
	(4)						
(5)			00-36-30	42-26-06	190-36-31		
	(6)					89-56	1736.19
	(5)						
(6)			107-00-00	⁶⁷⁻⁵³⁻⁰⁶ 292-00-54	106-53-47		
	(7)						
	(6)					91-07	1489.01
(7)			112-31-06	90-04-06	112-31-01		
	N ¹ / ₆ S ¹ / ₆ E ¹ / ₆					90-37	648.73
	(7)						
(N ¹ / ₆)			180-15-00	0-59-00	180-14-45		
	(8)						
	N ¹ / ₆					91-31	604.56
(8)			176-21-30	345-26-54	176-21-43		
	NE ¹ / ₆					89-50	697.92



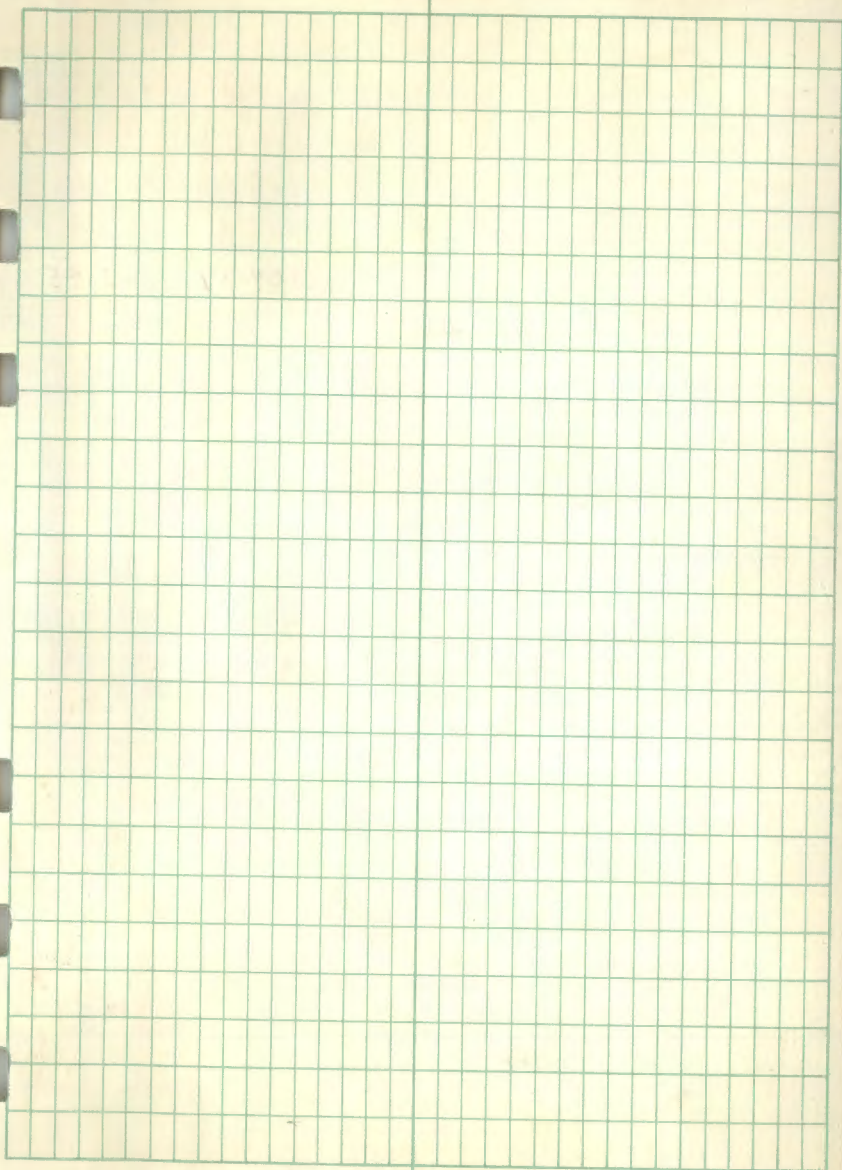
37

STA	FROM TO	1 st X	4 th X	Mean X	Vert X	EDM
	(8)					
NE 1/6		85-17-12	341-09-54	85-17-28		
	(9)					
NE 1/6					90-46	510.55
	(9)		350 08 06			
		177-31-54	89-51-54	177-32-01		
E 1/6					90-08	814.55
	(9)					
OE 1/6		84-59-54	339-59-30	84-59-52		
	(10)					
E 1/6					89-46	393.38
	(10)	169-39-12	318-16-30	169-34-08		
A.P.					87-58	268.89
	(10)					
A.P.		181-31-30	06-07-00	181-31-45		
		181-31-24	06-06-54	181-31-43		
	(11)					
A.P.					92-13	417.52
	(11)	159-38-00	278-35-06	159- 38 16		
1/4					91-56	252.55
	(11)					
1/4		131-36-12	166-24-42	131-36-10		
	(12)					

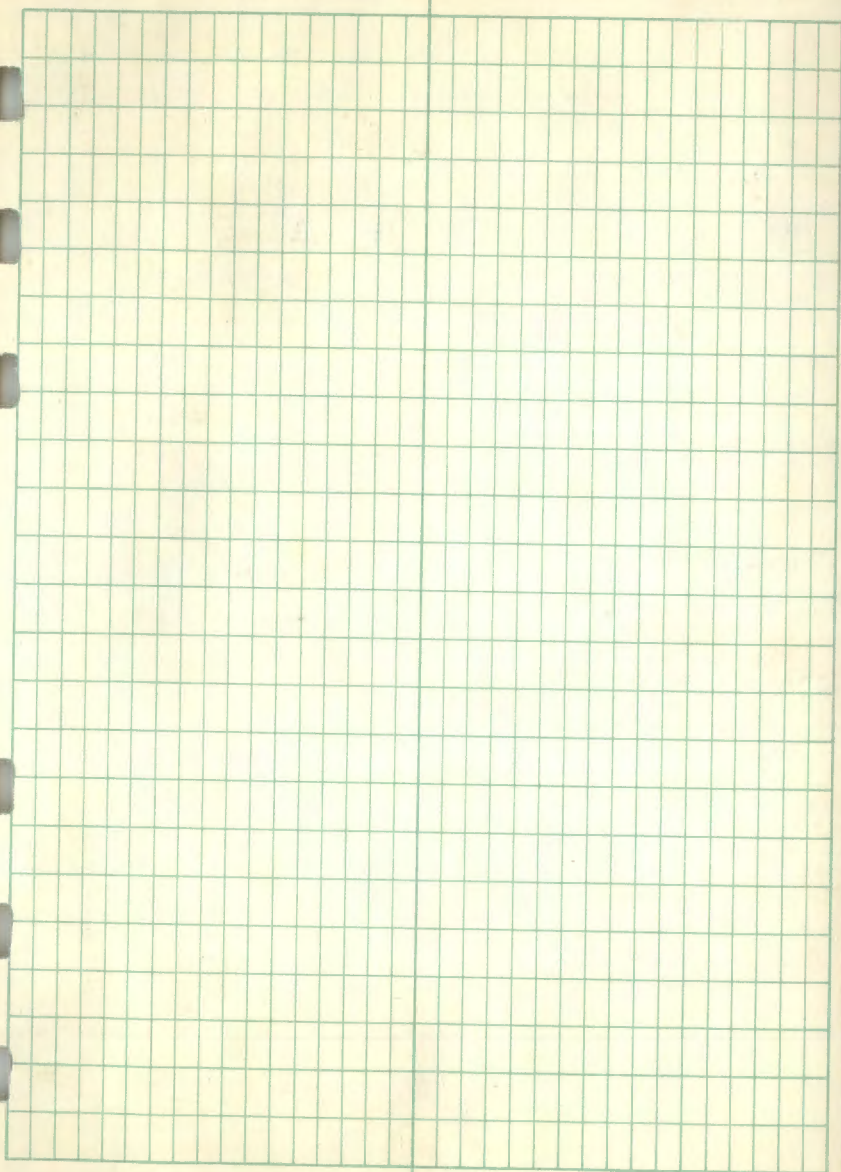
No. 302

Weatherproof

J. L. DARLING CORP.
ACOMA, OKLA., U.S.A.



STA	FROM	TO	1st \times	4th \times	Mean \times	Vert. \times	Edm Meas.
		1/4				88-04	385.40
①②	88-28-54	353-55-54	88-28-58				
						87-37	325.45
①③	171-42-00	326-49-00	171-42-15				
						89-54	657.19
①④	147-22-48	329-32-06	147-23-01				
						84-12	249.38
①①	86-40-12	346-40-42	86-40-10				



43

LASER RANGE POLE

SHOTS

T141 R30W Sec 36



SHOT 1 Vert 38°

~~88° 55' 22"~~

Start 88-40-00

L 88-10-00

L 88-20

~~88-30 X~~

L 88-00

~~87-40 X~~

L 87-50

R 87-40

R ~~87-45~~

R 87-46

R 87-47

R 87-48

L 87-49

L 87-48-30

R ~~87-48-45~~

L 87-48-15

L 87-48-20

L 87-48-30

~~L 87-48-10~~

C 87-48-05

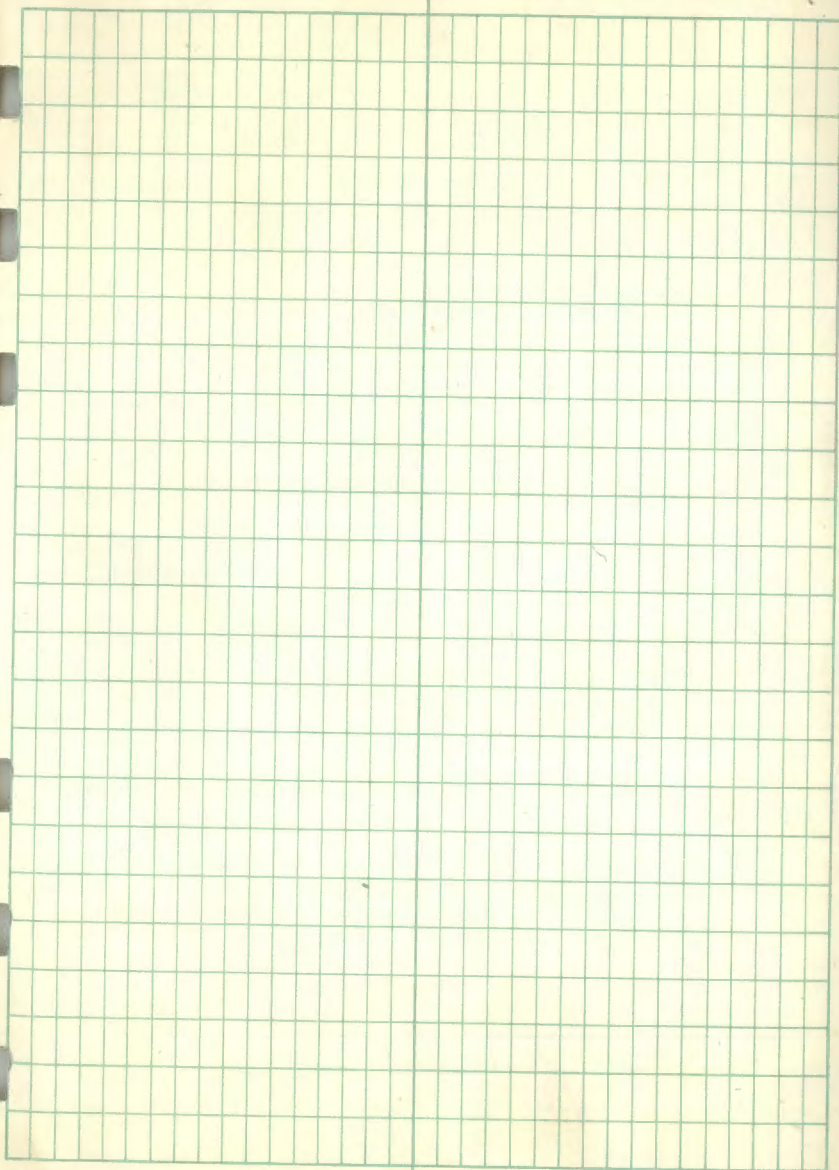
No. 302

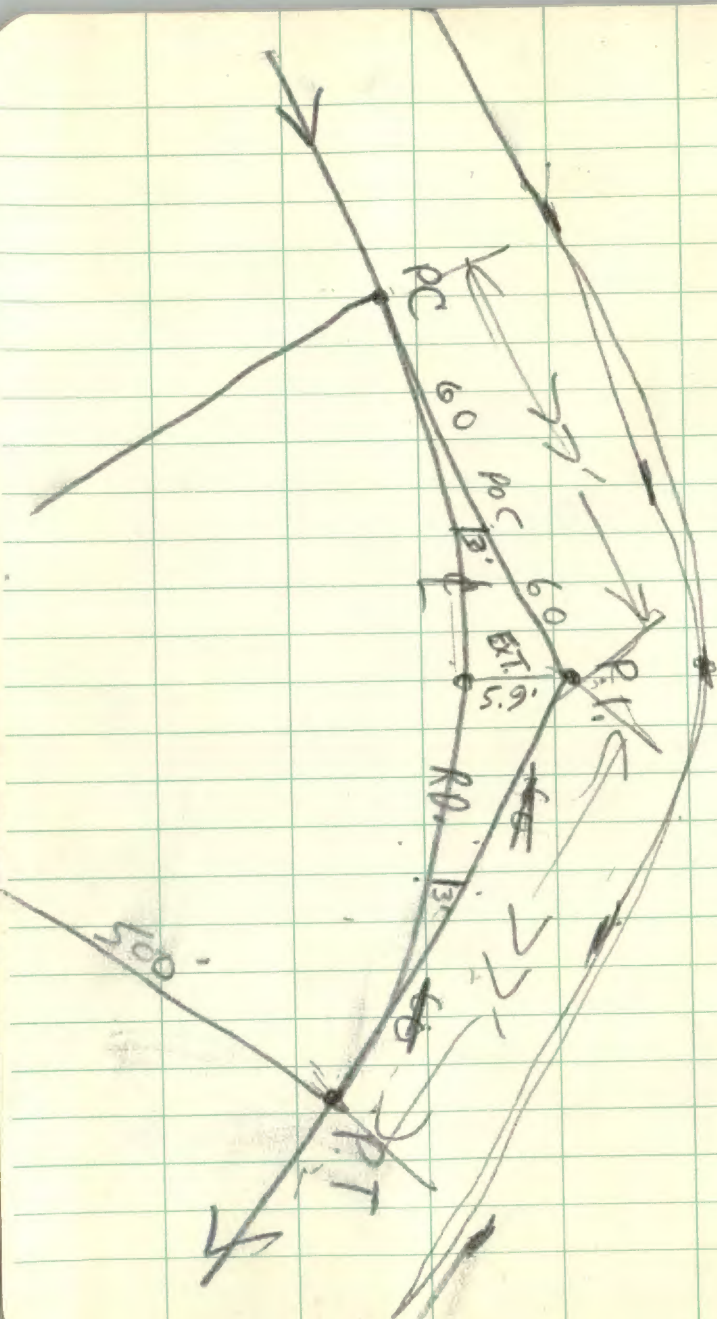
Get the Rain
WEATHERPROOF

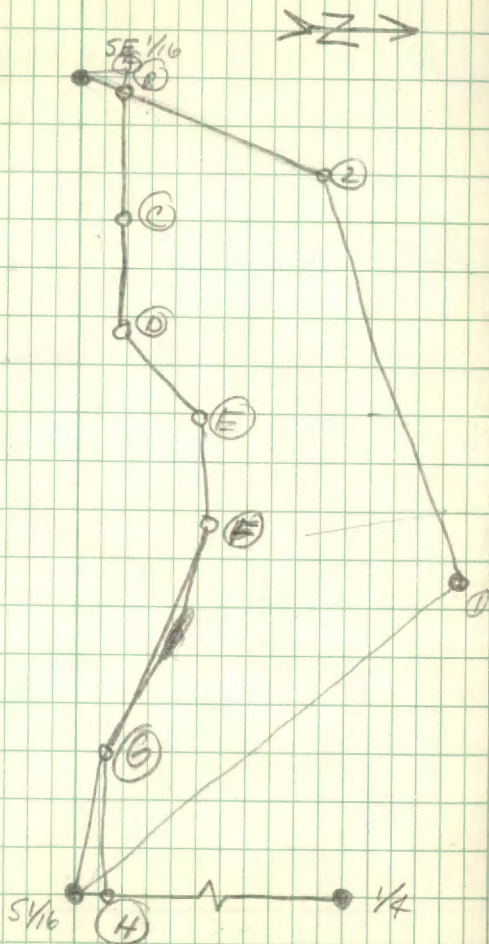
J. L. DARLING CORP.
TACOMA, WASH., U.S.A.

E

X







<u>STA</u>	<u>HOR.</u> <u>1st x</u>	<u>HOR.</u> <u>4th x</u>	<u>MEAN</u> <u>x</u>	<u>Vert.</u> <u>x</u>	<u>EDM</u> <u>Meas.</u>
------------	--	--	-------------------------	--------------------------	----------------------------

No. 302

Get the Best
WEATHERPROOF

T. L. DARLING CORP.
TAOOMA WASH. U.S.A.

COR.
DIST.

Referenced
BY:

8" Aspen NE 12.61'
6" W. Oak SW 20.91'

SKETCH



1234567890

13+00

AP 2 TR 1260

~~11~~
~~765~~ ← ~~475~~

4 → 50
475

26
52

6.8
25 11
765 | 5225
8 4570

6350
4720

WHIPPOUT TRAVERSE *

Ties to Pt 1

55.29' to P.P. S40°E

63.58' to 12" Aspen N67°E

Ties to N¹⁶ bet. 16 & 17

Set bridge pin $3\frac{1}{4} \times 18 \times 6$ " below road

1. Elm, 8" S40W 48.25'
2. Ash, 7" N70W 25.52'
3. P. OAK, 8" N22W 79.94'

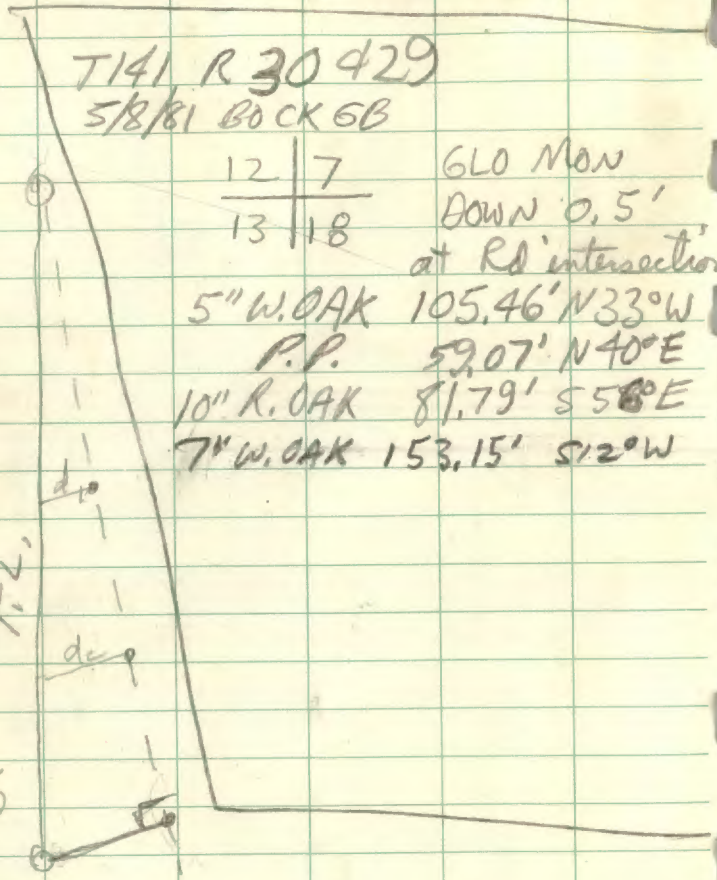
East side of road bet. driving
cuts

8

NSEW
1234567890



T141 R 30 429
5/8/81 BOCK 6B



12 7	6LO MON
13 18	DOWN 0.5'
	at Rd intersection
5" W. OAK	105.46' N33°W
P.P.	59.07' N40°E
10" R. OAK	81.79' S58°E
7" W. OAK	153.15' S12°W

Angle	15 th 4	4 th 4	Unit 4	EDM
closing pt.			84-12	249.38
pt ①	86°40'12"	346 40 42	86°40'10"	
pt ②	00-00	00-00		

No. 302
 WEATHERPROOF
 J. L. BAILEY CORP.
 TAHOEA WASH. U.S.A.

5/7/81

hazy, warm, breezy

Box
EB
CK

Shot 2

Vent 28°

Start 100°40'-00

101°10'00

~~R~~ 101-50 Boost

~~R~~ 101-50

~~X~~ 102-00

101-55

X 101-30

102

Vent 40 C 180-55

101

102-30

103-30

-40

100-10

R 105-00-00

X 105-10

104-50

Vent 25°

Start 180°-00'

R-175°20'

175°40'

174°

180°30'

180-50'

180-40 R

180-45 R

180-48 R

180-40 R

L 180-58 R 180-52

C 180-55

C 180-55

C 180-57

R 180-49-30

C 180-50

R 180-50-20

~~R~~

44

L. WITTHOFT

T-141 R-27 Sec. Line of 18+19
Started 6-24-81Paul Tabaka Orvil Knoels
Greg Bevings

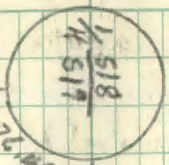
STA.			T.L.
1	200'	Wood post	4 S
2	400'	Stee post	8 S
3	503'	W. side of Marsh	Non
4	1100'	E. side of marsh	S.P. 22 S
5	1335.5'	Top of Hill	S.P. 26.7 S
6	1565.5'	+ W. side of marsh	S.P. 31.3 S
7	2305.5'	Top of hill	S.P. 46.15 S
8	2682'		S.P. 53.6 S
9	2982.5'	Brass cap TWO	S.P. 59.9 S

Completed 7-15-81

10 working days

set wood post on red
line. 5' S.E. of old road
marked S. 76° 10' E 666.7'
To sec. cor. of 517-18-19-20 T-141 R-27

National
Forest
land

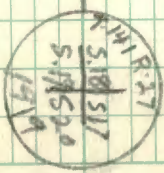


N $76^{\circ}10'W$

22.40 Ch.
1491.6'

2982.5

22.59 Ch.
1490.9'



45

L Witthoeft Finished

O. Knoels 7-19-81

Greg Gevings

Nancy Barblen

Date Started 7-15-81

PT.	Sta		T.L.
1	142.5		0.6 W
2	627.5		2.6 W
3	1022.5	5.75	4.2 W
4	1384.2	.004134 Cap	5.75 W

No. 302

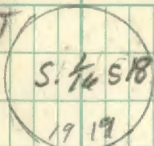
 King
 WEATHERPROOF

 A. L. DARLING CORP.
 TAHOEA, WASH. U.S.A.

1

Rain 1145 To 1230

Stayed over cast



→ 5.75 E.

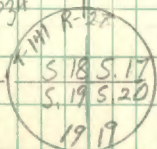
National
Forest
Land

N. 0° 24' E
20.97 Ch. or 1384.02 Ft.



76° 34' →

N. 76° 10' W ←



T-141N. R-27W S.18

L.W. WithoefT

Nancy

Temp. 82

Greg

Wind 10 to 15 MPH.

Orvell

Roger

Date started 7-20-81

Finished 7-28-81

PT	Sta.		T.L.	
1.	3+30	317.5	.81	S
2.	6+80	733.5	1.88	S
3.	14+40	1475.1	3.8	S

posts

2 at $5\frac{1}{2}$

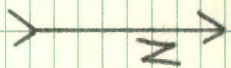
3 at PTs on line

1 at $5E\frac{1}{2}$

002576

SE. 1/4 S. 18
1919

U.S.F.S.



S. 1/4 S. 18
1919

2.9 951.6

L. Witthoef π

Nancy

Greg

Orvell

Roger

Started 7-22-81

Finished 7-28-81

shot through to Cor. did not
have to change any points

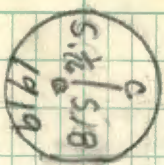
Posts

3 at PT online

1 at SC $\frac{1}{4}$

1 Wood W. of Cor.
12.72'

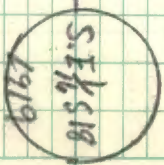
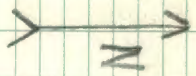
1.7' W of Brass Cap



Cor. To be replaced
& BTs put in
7-29-81 L.W.

Site from Cor. To Cor.

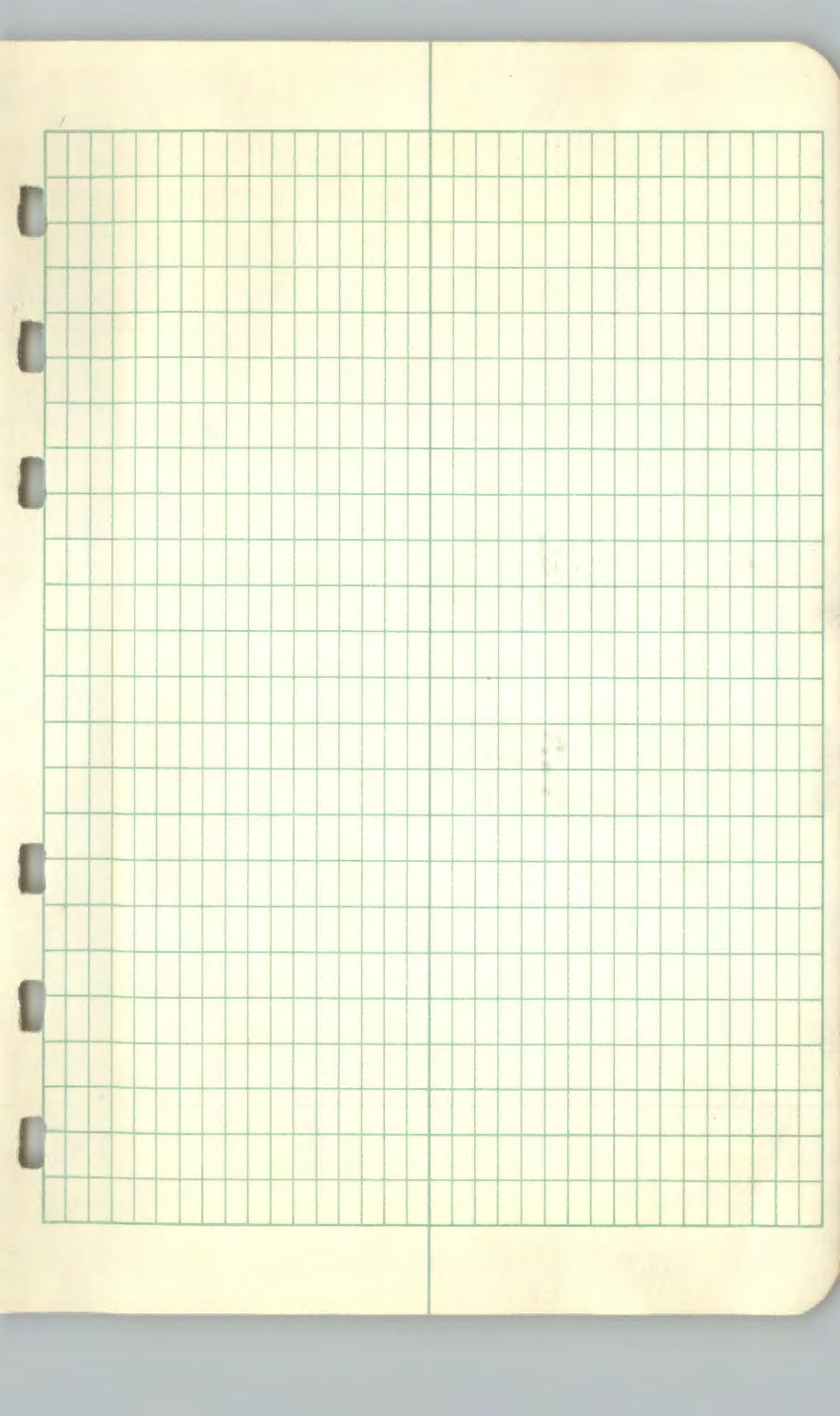
U.S.F.S.



No. 302

Get the Rain
WEATHERPROOF

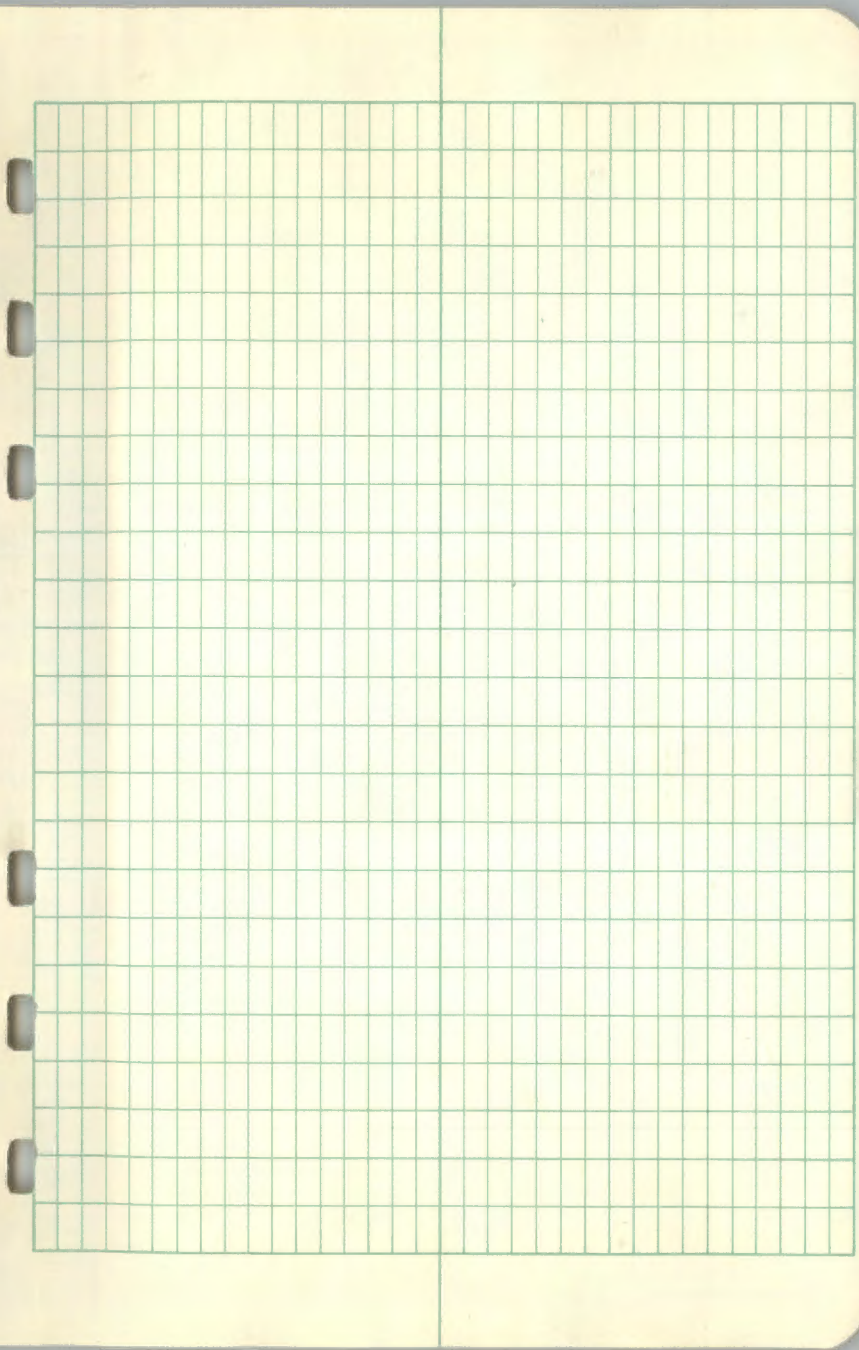
A. L. DARLING CORP.
YACOMA, WASH. U.S.A.



No. 302

Get the Best
WEATHERPROOF

J. L. DARLING CORP.
YACOMA, WASH., U.S.A.



T-141 R-30 S. 25+36

L. W. Thoeft

Orville Knowels

Greg Beyings

Rick Goose

Mike Frey

Started 8-13-81 Thr.

Finished 8-20-81 Thr.

PT	Sta.	.0002829	T.L.
1.	272	.08	.07
2.	569	.17	.16
3.	783.5 hill Top	.24	.2
4.	1083.5 (hill Top) by marsh		.3
5.	1454.5 E. Side Marsh		.4
6.	1835.5		.5
7.	2180.5 345.0		.6
8.	2575.5 395.0	.75	.7
9.	2651.0 1/4 Brass Cap		.75

T-191 R 30
S2A S25
S2B S36
M 807
R15 601

USFS



N. 75'

S2A S25
S2B S36
M 807
R15 601

T-141 R-30 S. 25+36

L. Witthoef Bill Auk

O. Nowels

G. Gevings

R. Goose

Started 8-17-81

Finished 8-27-81

PT	Sta.	T.L.
1	483' west side of marsh	.15 N
2	816.5'	.25 N
3	1052.5'	.32 N
4	1369.5'	.41 N
5	1692.5'	.51 N
6	2070.5'	.63 N
7	2394.5'	.72 N
8	2641.5' cap $\frac{525}{526}$.8 N

217

323

378

247

324

1/525
4 536
RES. NO. 8701



USFS



T141N
R20 29W
525 1830
534 531
RES. NO. 8701

No. 302

Get in the Rain!
WEATHERPROOF

J. L. DARLING CORP.
TACOMA, WASH., U.S.A.