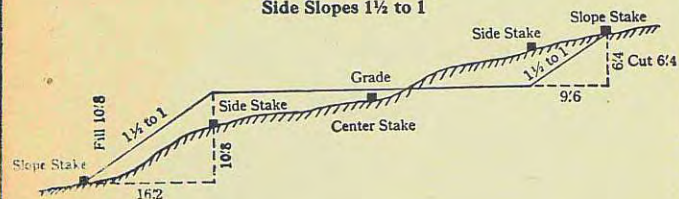


MERIDIAN LINE & SEC. CORNER #1

~~COUNTY SHOP~~
~~#4 R #1725~~
SECTION CORNER SURVEYS
1978 #1
MERIDIAN
LINE AND
SECTION
CORNER BOOK
#1

6673 = 198

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING Roadway of any Width Side Slopes 1½ to 1



In the figure above: Opposite 6 under "Cut or Fill" and under .4 read 9/6 the distance from the side stake to the slope stake at right. Opposite 10 under "Cut or Fill" and under .8 read 16.2, the distance from the side stake to the slope stake at the left.

Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

Property of CACHE COUNTY

ENGR

Address RM 210 COURT HOUSE

Phone _____

This Field Book contains special paper which is impregnated with resin to make it substantially stronger as well as water resistant. Your field notes will come out sharp and clear even when the page is wet.

Made in U. S. A.

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JOB NO.	PROJECT	PAGE NUMBER
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	MONUM 23+24 TIAN RIE	8
	MONUM 34/35 13N 3+2 12N RIE	9
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PROJECT

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MONUM. TOWNSHIP COR 11N ON 50 10N SLK

MONUMENTATION COR 24/19 TION 51 25/30 RIW

MONUMENTATION 1/4 COR 33/32 52 TION ON

COUNTY SHOP MAR 78

22 MAR 78

SET SUBGRADE ON PAD TO ELEV
53.1 AS TOP OF SUBGRADE
BOTTOM OF SLAB. SET FOR BUILDING
PLUS 15' ON EAST AND WEST SIDES.
PUT IN .6 - .9 ON PAD AND 2.0' OF
PIT RUN ON GASTANK AREA.

SEE OTHER BOOK

$$\begin{array}{r} 49.82 \\ 8.13 \\ \hline 57.95 \end{array}$$

$$\begin{array}{r} 57.95 \\ 7.05 \\ \hline 50.90 \end{array}$$

$$\begin{array}{r} 53.60 \\ 49.82 \\ \hline 3.78 \end{array}$$

$$\begin{array}{r} 49.82 \\ 3.78 \\ \hline 53.60 \end{array}$$

$$\begin{array}{r} 53.6 \\ 3.8 \\ \hline 49.8 \\ 6 \end{array}$$

$$\begin{array}{r} 57.95 \\ 5.78 \\ \hline 54.17 \end{array}$$

8.13

57.95

49.82

$$\begin{array}{r} 4.36 \\ 3.78 \\ \hline \end{array}$$

53.6

7.05

$$\begin{array}{r} 49.82 \\ 8.59 \\ \hline 58.41 \\ 53.60 \\ \hline 4.81 \end{array}$$

58.41

8.59

58.41

$$\begin{array}{r} 53.60 \\ 49.82 \\ \hline 3.78 \end{array}$$

49.82

3.78

49.82

53.60

8.59

3.78

4.81

GRADE ROD = 4.81

4.81

.08

4.89

.50

5.39

$$\begin{array}{r} 4.81 \\ .17 \\ \hline 4.64 \\ .17 \\ \hline 4.81 \end{array}$$

4.64

.17

4.81

4.81

.17

4.98

25 MAY 1978 SEC CORNER LOCATION

HUDSON

35/36

TUNION

WARD

211

R 1W

1/4 CORNER BETWEEN 35/36 IS
KNOWN - SET MIRROR ON 1/4 CORNER
AND LINED UP BETWEEN 1/4 CORNER
AND STATE HWY STATION 11+42.1
AS INDICATED ON PROJ. NO 137-A 1933
PLAN AND PROFILE SHEET AS BEING
WHERE THE SECTION LINE CROSSES
THE E. ALSO PT IS 15.7' WEST
OF PC STA 11+57.8 BETWEEN 2 ROW
MARKERS. DISTANCE FROM 1/4 COR. TO
HST IS 1351.12 $\angle 269^{\circ}33'$ D = 1351.08
HST TO E IS 262.26 $\angle 92^{\circ}53'$ D = 261.93
TOTAL MEASURED DISTANCE 1613.01
TOTAL DIST RECORDED = 1628.45

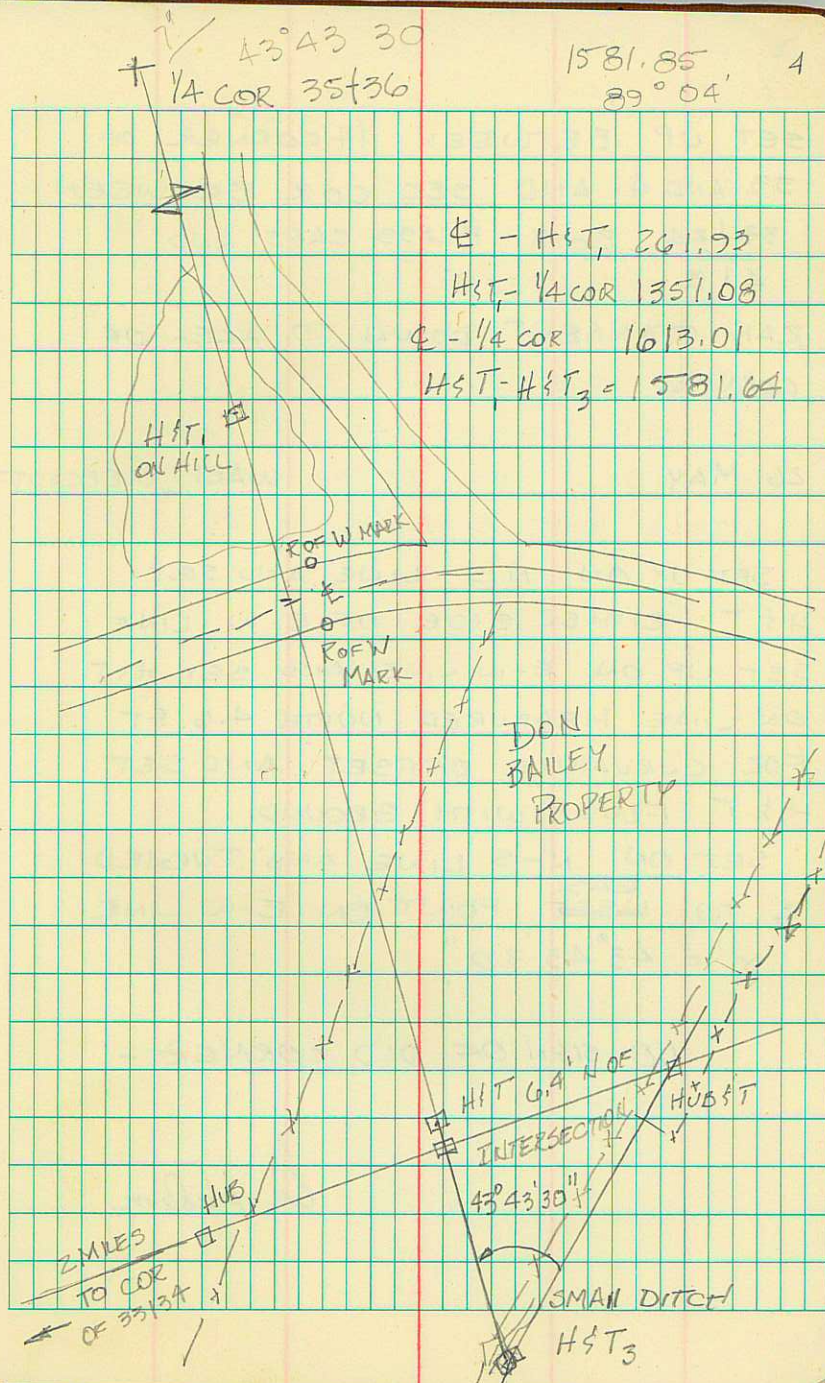
DISTANCE MEAS. FROM E TO SEC COR 1026.99

DISTANCE FROM HST TO SEC COR 1288.92

DISTANCE FROM INTERSECTION OF NS AND
EW LINE TO HST IS

1262.01 $\angle 88^{\circ}45'$ = 1261.71

27.2' SHORT 1/2 MILE



SET UP BETWEEN $\frac{1}{4}$ CORNER OF
33 AND 4 AND SEC COR BETWEEN
33/34 BOTH BRASS CAPS AND
413

RAN TANGENT DOWN TO AREA OF
CORNER.

26 MAY

WARM, OVERCAST

SET UP ON N-S LINE AND SET
HIT EITHER SIDE OF E-W LINE
SET UP ON E-W LINE AND SET HIT
ON LINE MEASURED NORTH 4.6 FT
FOR CURVATURE OFFSET AND SET
HIT FLUSH WITH GROUND.

SET ON N-S LINE AND TURNED
4 TO ^{EAST}~~WEST~~ POINT ON E-W LINE
 $\angle = 43^{\circ}43'30''$

NO SIGN OF OLD CORNER -

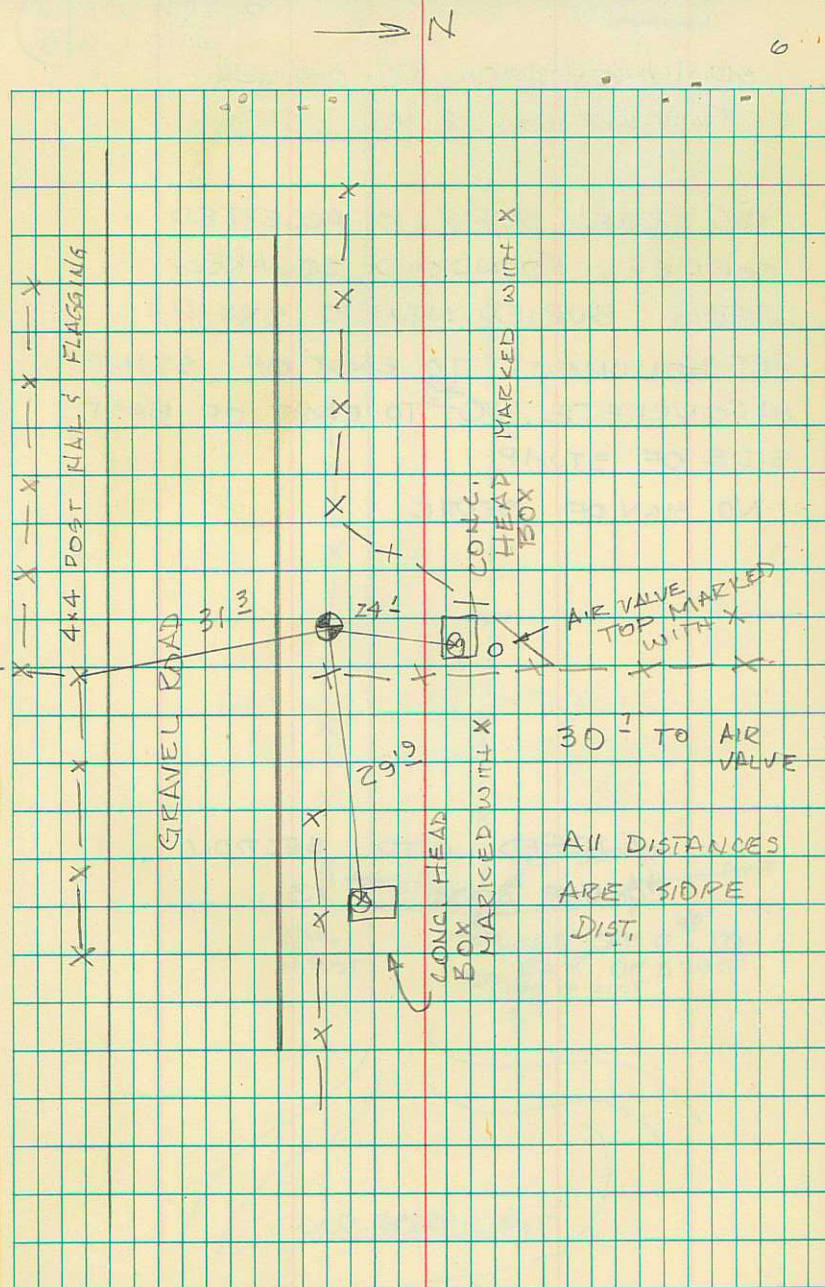
A. Hulm

14	13
23	24

FOUND	STONE	WITH	PROPER
MARKINGS	AND	VALEY	ENGE 1/2
REBAR	NEXT	TO	IT.

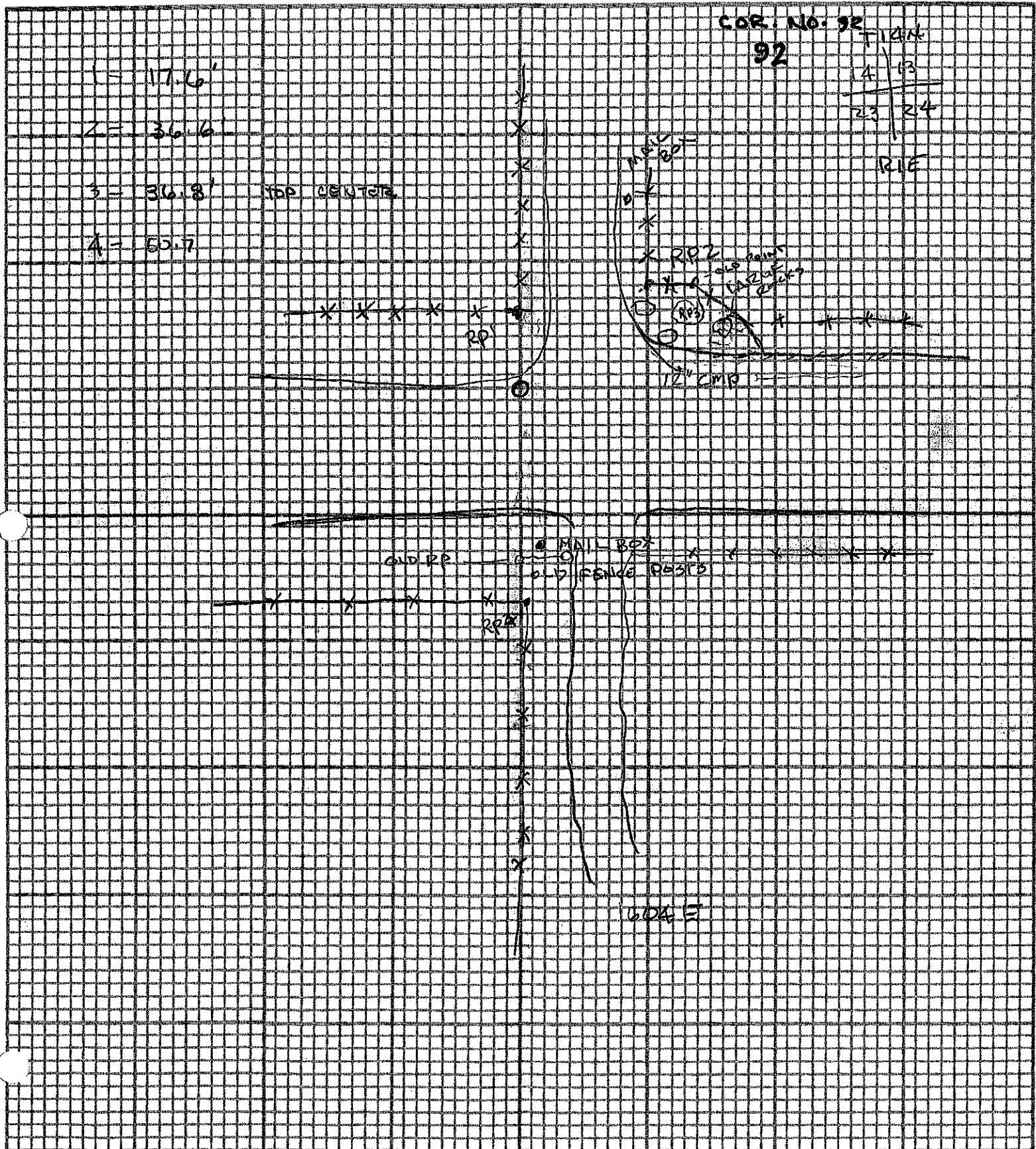
BURIED STONE AND SET MON.
TO SIDE. CONCRETED TOP OF
STONE AND MONUMENT

ENTERED INTO SECTION TIE
BOOK # 92



CACHE COUNTY SURVEYOR'S OFFICE

PROJECT: _____ SUBJECT: SEC. COR. REVIEW DESIGN: _____
 PROJECT NO.: Pg 6 BK 1 DATE: _____ CHECK: _____



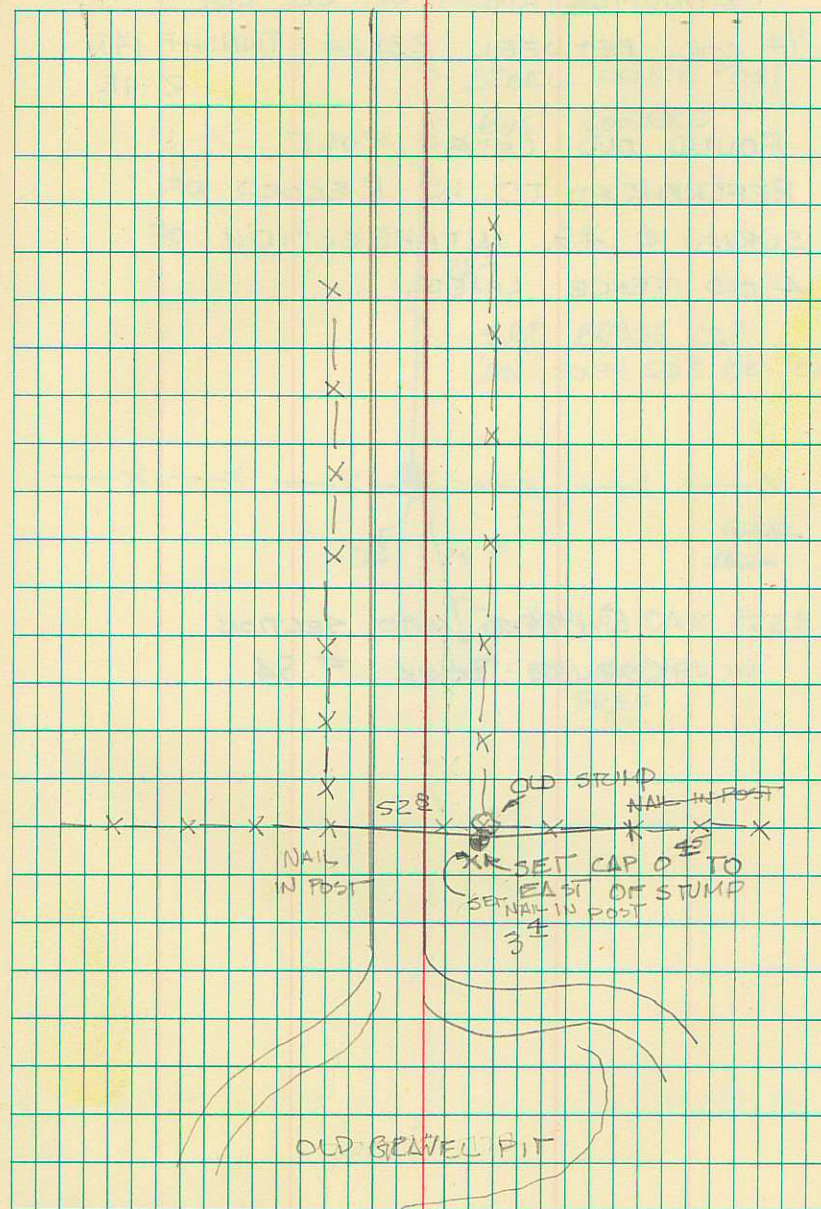
MONUMENTATION OF CORNER
TOWNSHIP 14N R 1E.

OLD TREE STUMP IS ACCEPTED
CORNER. FOUND OLD SQUARE
REBAR BURIED NEXT TO STUMP
SET MONUMENT TO EAST OF STUMP
IN CONCRETE. 0⁴⁵ TO EAST OF EAST
SIDE OF STUMP.
NO SIGN OF STONE

ENTERED INTO SECTION
CORNER BOOK # 93

? 12 | 1 |
14 | 13 |

11 | 12 |
14 | 13 |

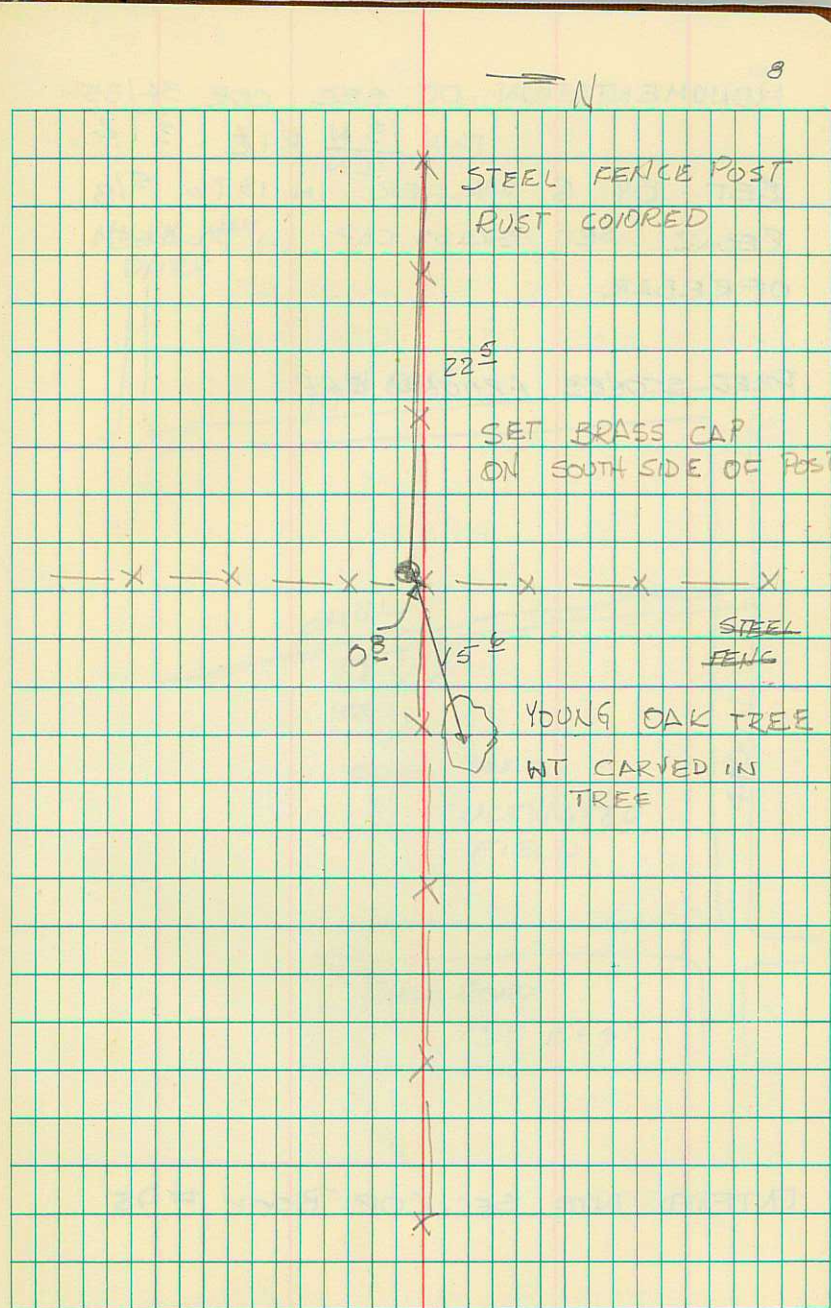


MONUMENTATION OF SEC COR

1/4 COR BETWEEN 23+24 TOWNSHIP 14N
R 1E

FOUND OLD CEDAR POST
REFERENCED TO IN RECORD OF
SURVEY # 49, INTERSECTION OF
4 OLD FENCE LINES.

ENTERED INTO SECTION
CORNER BOOK # 94



MONUMENTATION OF SEC COR 34/35

TWN 13 N R1E 3 2

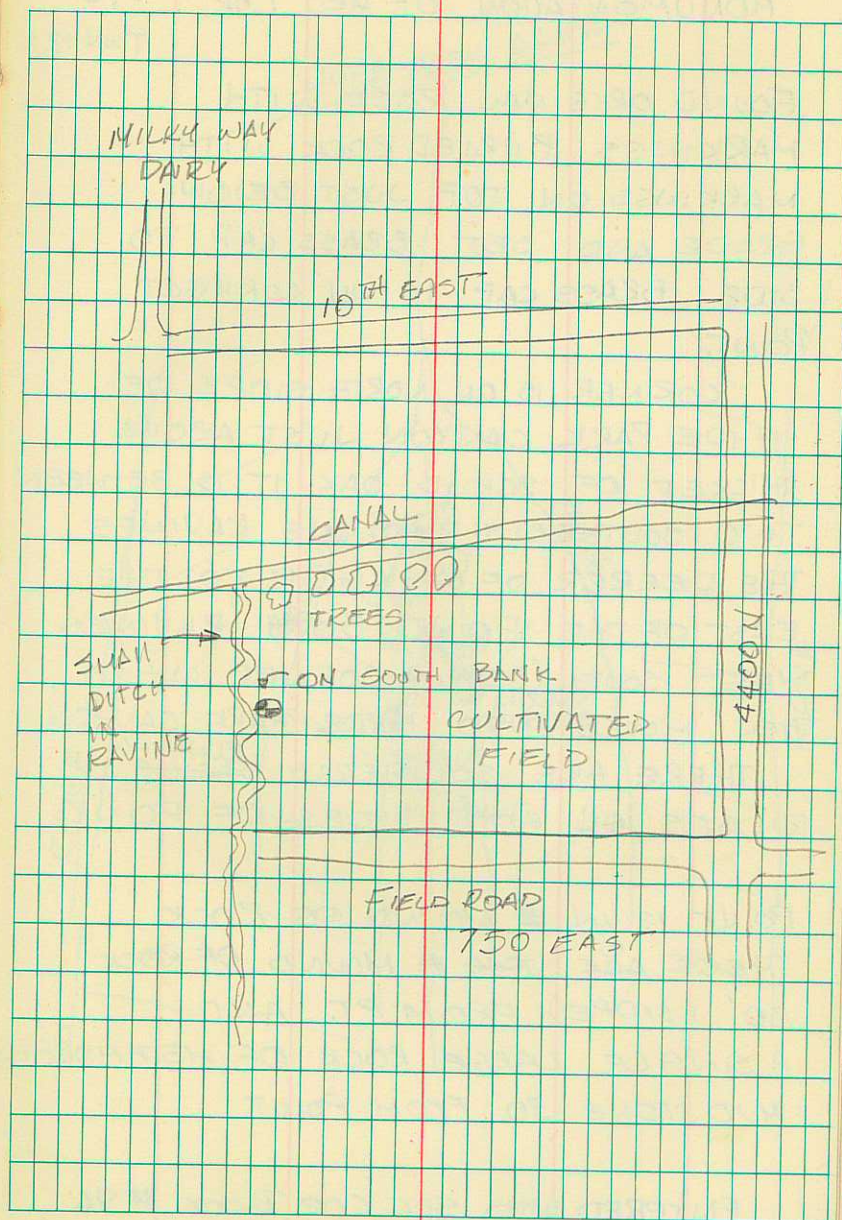
SET BY G. WALKER IN 1976 5/8

REBAR. SET BRASS CAP N PLACE
OF REBAR

PILED STONES AROUND CAP,

ENTERED INTO SEC. COR. BOOK #95

9



MONUMENTATION OF SEC COR.

R1E

T13N
36 31

R2E

TWN 12N

FOUND ORIGINAL ROCK WITH
MARKINGS BURIED ROCK WITH
MARKINGS ON TOP JUST BELOW
GRADE AND SET BRASS CAP TO
SIDE. BRASS CAP IS ON CORRECT
POINT.

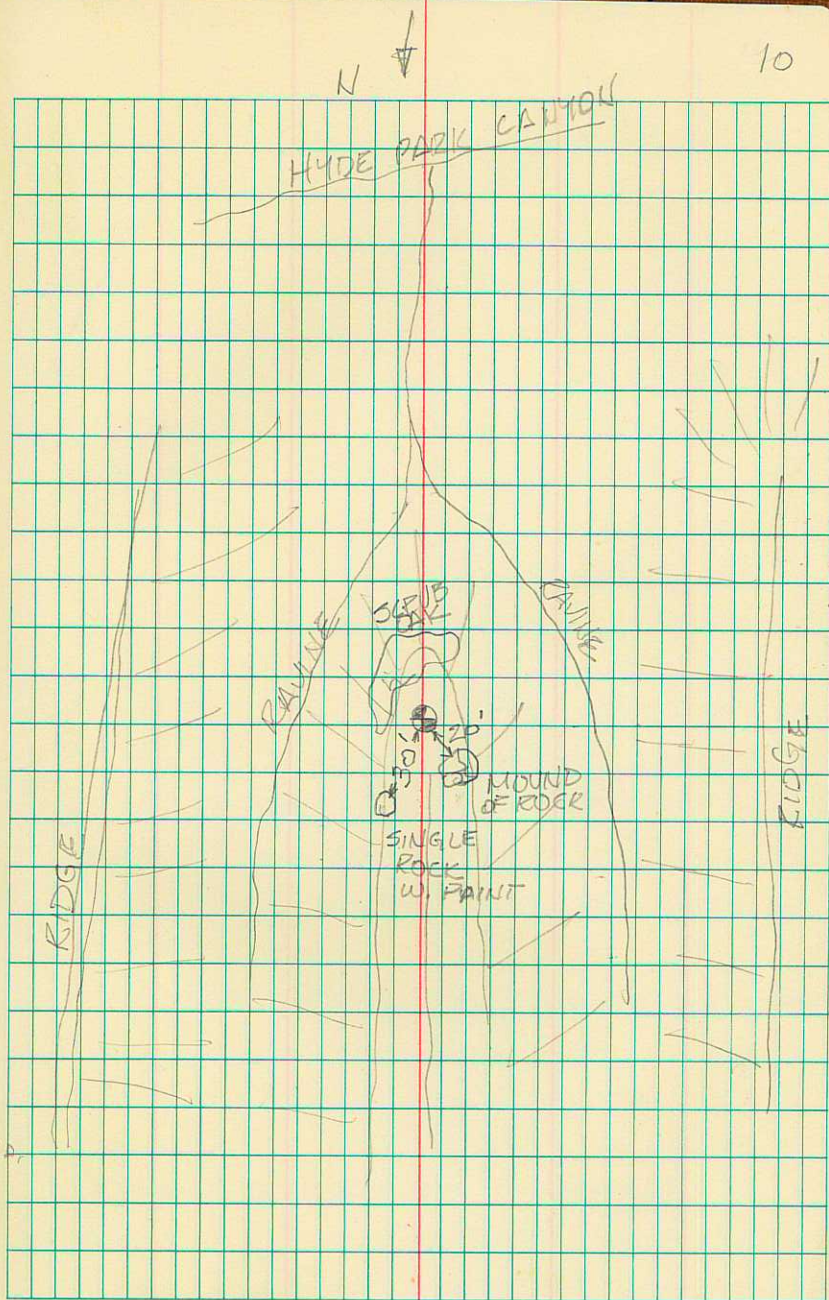
CORNER IS ON NORTH SLOPE OF
HYDE PARK CANYON JUST ABOVE
THICKET OF SCRUB OAK. IT IS BETWEEN
TWO SOUTHERLY RUNNING RAVINES
THE DEEPER OF WHICH IS TO THE
EAST OF THE POINT. BOTH RAVINES
MEET SOUTH (BELOW) CORNER WHICH
THEN MOVES INTO HYDE PARK CANYON.

THERE ARE SOUTHERLY ^{RUNNING} ~~FACING~~
RIDGES ON BOTH SIDES OF POINT

POINT IS IN ~~B~~ MOUND OF ROCK
THERE ARE ^{IS} TWO A MOUND OF ROCK
20' (SLOPE) FROM PT. AND
A SINGLE LARGE ROCK OF METAMORPHIZED
MUDSTONE 30' FROM POINT

ENTERED INTO SEC. COR. BOOK #96

10



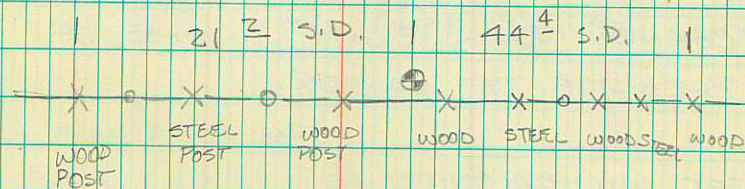
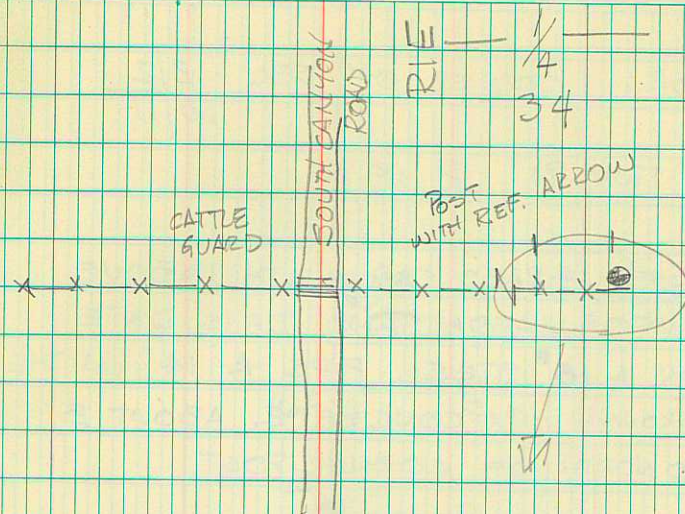
REFERENCE OF 1/4 CORNER

N 4

T9N

27

12



BOTH POSTS MARKED WITH REF. ARROW

ENTERED INTO SECTION CORNER

BOOK # 98

JUNE 78

MON. OF SEC COR.

COR: CORNER OF SEC $\frac{3}{2}$
10/11

TWN 9N R 1E

SET BRASS CAP WITH ABOVE
INFORMATION AND DAYS DATE
ON A 18" STEEL PIPE A 14" IN THE
GROUND IN CONCRETE, ABOUT 3
TO NORTH OF CORNER POST.

LARGE CEDAR POST IS ACCEPTED
CORNER.

CORNER IS ON BLUFF TO ^{WEST} EAST OF
PARADISE DRY CANYON.

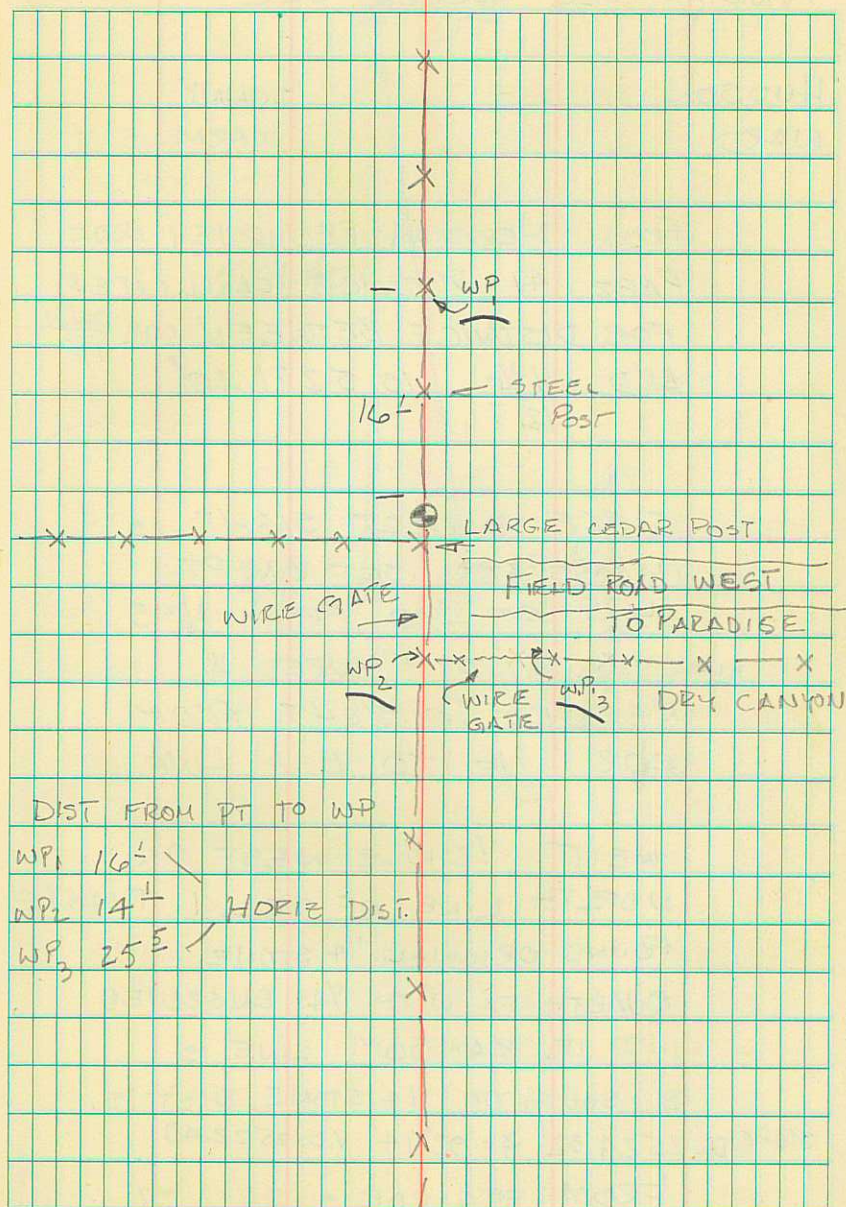
SET WITNESS POINTS AS

SMALL STEEL SQUARE $1\frac{1}{2} \times 1\frac{1}{2}$ IN POST
WITH BIG HEADED NAIL AND INSCRIBED WITH
CACHE CO.
W. P.

ENTERED INTO SECTION CORNER
BOOK # 99

N

13



FINDING SEC CORNER SEC

HUDSON
WARD

SUNNY
WARM

FROM MERIDIAN RESURVEY BOOK
PAGE 41 DISTANCE CALCULATED
FOR DISTANCE BETWEEN COR $\frac{36}{16}$
AND $\frac{1}{16}$ IS 5271.40'

SINCE DIRECT SIGHT IS
IMPOSSIBLE SET ON PT
9975 AT 90° FROM N-S
LINE AND FIGURED 4
NEEDED TO SIGHT FROM
COR $\frac{1}{16}$ TO E-W LINE

WENT 1/2 MILE WEST ON
NORTH LINE OF SEC. 1 TIANIE
FOUND ORIGINAL 1/4 STONE,
QUARTZITE WITH 1/4 ENGRAVED
INTO IT. RANDOM LINE IS
9' SOUTH OF 1/4 STONE. DIST. IS.

SLOPE D = 2524.32 Δ = 92° 14' V.D. 2522.40

FROM SEC COR = 2622.37

OR 18' SHORT

~~2524~~ 2524¹⁴ 32

92° 14'

5271.40

$\frac{36}{16}$

9975

2522.40

9'

1/4 STONE

N

CONTINUED RANDOM LINE TO
1 MILE CORNER DISTANCE IS
SLOPEDIST. = 2684.03 $\angle V$ 90° 29' = 2683.93
TOTAL DISTANCE = ~~52~~ 5306.08 =
99.75 + 2522.40 + 2683.93
= 26.08' LONG.

6 JUNE 1978

RAN LINE NORTH TO FIND N S
POSITION OF SEC CORNER.

SINCE 1/4 CORNER BETWEEN 23+24
COULD NOT BE SEEN FROM COR ¹³⁺¹⁴ 23+24
SET OF 22.85' OFF 23+24 AND MEASURED
DISTANCE 2654.55 $\angle V$ = 88° 50'

HORIZ D = 2652.41

FROM OFFSET SIGHT TURNED 0° 29' 37"
AND USED THAT FOR BACKSIGHT.

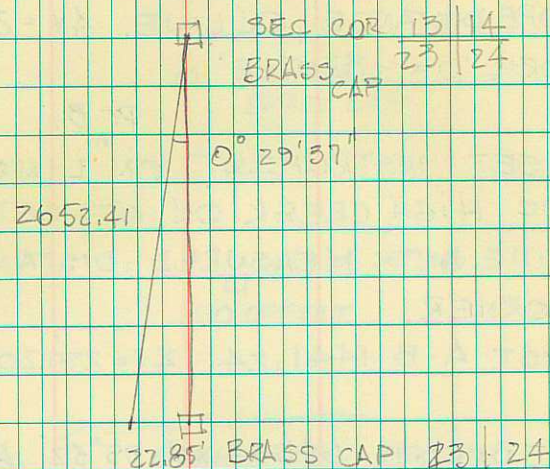
RAN NORTH TO PT NEAR 1/4 CORNER
DISTANCE = 2654.55 $\angle V$ = 269° 59'
HORIZ D = 2654.55.

LARGE PILE OF ROCK AT THIS
POINT

SLOPE D =

A N

15



RAN P LINE NORTH TO POINT A 3207.12'

STOPE DISTANCE, ON LINE. $\angle V = 270^\circ 0'$

HORIZ D = 3207.12'

PT B.

SET INSTRUMENT ON LINE NORTH
OF HIGH CREEK ON OFFSET FROM
LINE AND MEASURED DISTANCE TO
CORNER.

DIST A-B 1441.24 $\angle V = 270^\circ 20'$ HD = 1441.22

DIST B-CORN 641.34 $\angle V = 95^\circ 32'$ HD = 638.35

DIST A-CORN 2079.54

3207.12

DIST FROM COR 13/14 TO 23/24 = 5286.66
13/14

TRIED TO CONTINUE LINE NORTH
BUT COULD NOT.

SET ON PREVIOUS SURVEY PT.

PT BEING H&T ON SURVEY PAGE 39

OF MISC SURVEY BOOK 10-77 PT B

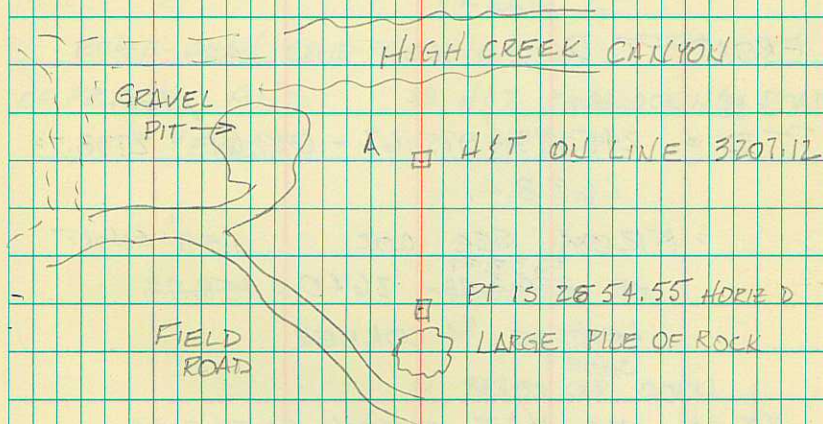
PT B IS 627.67' SOUTH OF COR +
AND BACK SIGHTED ON A AND

SET POINT D ON HILL OVERLOOKING HT HOME
ROAD

(16)

SEC CORLL.
BRASS CAP

H&T PT B
10' OFFSET



32
160.23

DT D IS

2451.59 $\angle V 91^\circ 31'$ HORIZD 2450.73

FROM OLD SURVEY PT B

PT E IS PK NAIL SET 6.30'

SOUTH OF MAILBOX ON ASPHALT

PT E IS 984.05 $\angle V = 262^\circ 31'$ HORIZD = 975.67

FROM PT D

E
DT D = 2450.73 + 975.67 - 627.67 = 2798.73
2638.41

FROM SEC COR 1.59' SHORT

OR $2638.41 - 2640 = 158.73$

LONG OF 1/4 CORNER
SHORT

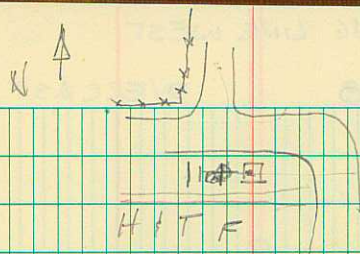
PT F WAS H&T SET ON SOUTH SIDE
OF ROAD AT INTERSECTION SHOWN,
DISTANCE FROM PT D TO PT F =

3580.03 $\angle V = 267^\circ 11'$ HORIZD = 3575.70

THERE FOR 160.32

PT F IS 3575.70 + 2450.73 - 627.67 = 5398.76

OR $5242.67 - 5280 = 48.76$ LONG FOR 1 MILE.
37.33 SHORT



(17)

ETHEZ ALIAN TOLD US THAT CORNER WAS
SOUTH OF E-W ROAD AND 1 ROD EAST
OF WEST FENCE.



ETHEZ ALIAN SAID CORNER IS FT SOUTH
OF PK NAIL AND H&T OVERLOOKING ROAD
PT D FT EAST

BRASS CAP CORN

OLD SURVEY PT B

160.32'

SET UP POINT B

A

RUNNING LINE WEST

9 JUNE 1978

OVERCAST, WARM

HUDSON

WARD

RUNNING WEST FROM CORNER $\frac{116}{127}$

SET UP NORTH FROM CORNER $\frac{116}{127}$

SO AS TO SEE $\frac{1}{4}$ CORNER.

MEASURED DISTANCES AS SHOWN

$B = 2705.45 \times V = 97^\circ 54'$ HORIZED = 2679.77

$\angle C = 146^\circ 26'$ DOUB. = $73^\circ 37'$

DIST. A = 242.04 $\times V = 272.23' = 241.83$

SEE NEXT PAGE

$$A+B = 180 - C$$

$$a+b = 180 - C = 180 - 73^\circ 37' = 106^\circ 23'$$

$$\tan \frac{1}{2}(A-B) = \frac{(a-b) \tan \frac{1}{2}(A+B)}{a+b}$$

$$\tan \frac{1}{2}(a-b) = \frac{(A-B) \tan \frac{1}{2}(a+b)}{a+b}$$

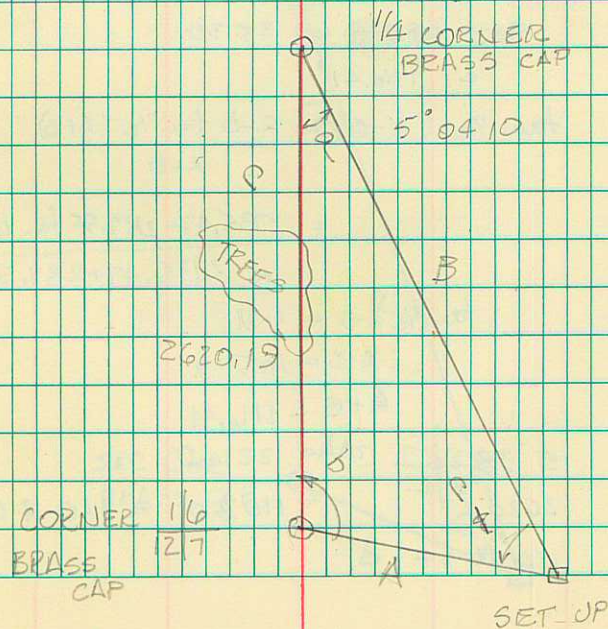
$$a-b = 2437.94 \tan \frac{1}{2} 106^\circ 23'$$

$$\tan \frac{1}{2}(A-B) = 30.62 \quad 106^\circ 23' \quad 3456.24$$

$$a-b = 176.26 \quad a+b = 106.38 = 2a = 282.64 \quad \cancel{176.32}$$

(18)

IF SEC COR TO $\frac{1}{4}$ COR
IS 2620.19 DISTANCE
TO NEXT SEC COR
SHOULD BE 5240.38



9 JUNE

USE SAME PROCEDURE AS PRECEDING PAGE

DIST. a 2762.13 $\angle V$ 97°53 2735.47

$\angle C$ DOU. = 127°11' = 63°35'30"

DIST b SLOPE = 287.55 $\angle V$ = 90°12' HORIZ. = 287.55

$$A+B = 180 - C$$

$$= 180 - 63 35 30$$

$$= 116.41^\circ$$

$$\tan \frac{1}{2} (A-B) = \frac{a-b \tan \frac{1}{2} (A+B)}{a+b}$$

$$= \frac{2735.47 - 287.55 \tan \frac{1}{2} 116.41}{2735.47 + 287.55}$$

$$\tan \frac{1}{2} A-B = 1.31$$

$$A-B = 105.19$$

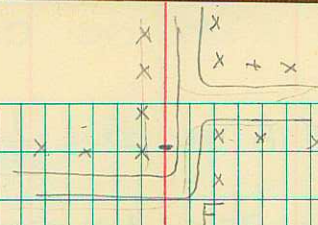
$$A+B = 116.41$$

$$\angle B = 5^\circ 38' 26'' \quad \angle A = 221.60$$

$$C = 2620.27 \quad = 110.80 = 110 46 04$$

$$A+B = 110 46 04$$

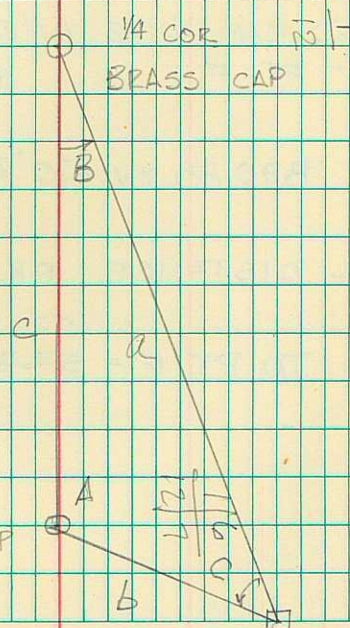
N



(19)

E E

1742.16



578

SET ON PT A SEC CORN $\frac{116}{127}$

SIGHTED ON PT C AND TURNED 4 C
TO PUT ON LINE. SET POINT
E IN FIELD ON LINE AS SHOWN
PRECEEDING PAGE.

DISTANCE SEC COR $\frac{116}{127}$ TO PT E:SLOPED 4362.39 $\times V$ 264°00' HORIZD = 4338.49

DISTANCE 1/4 COR. TO PT E = 1742.16

SET ON E BACKSIGHTED TO SEC COR $\frac{116}{127}$
AND RAN LINE AHEAD TO PT F
SET PT F ' FROM COR $\frac{116}{127}$

890.80 $\times V$ 270°23' 890.7TOTAL DISTANCE FROM SEC $\frac{116}{127}$

5229.19

AND TO PT F = ~~5229.19~~

2655.90 90 23

(20)

TWN 14 N R 1 E

TALKED TO MR ETHER ALLEN
AND HE SAID HE REMEMBERED
1/4 CORNER 11+12 WAS ON SOUTH EDGE
OF ASPHALT IN LINE WITH POWER POLE.
HE SAID IT WAS PROBABLY MOVED
WHEN ROAD GRADED.

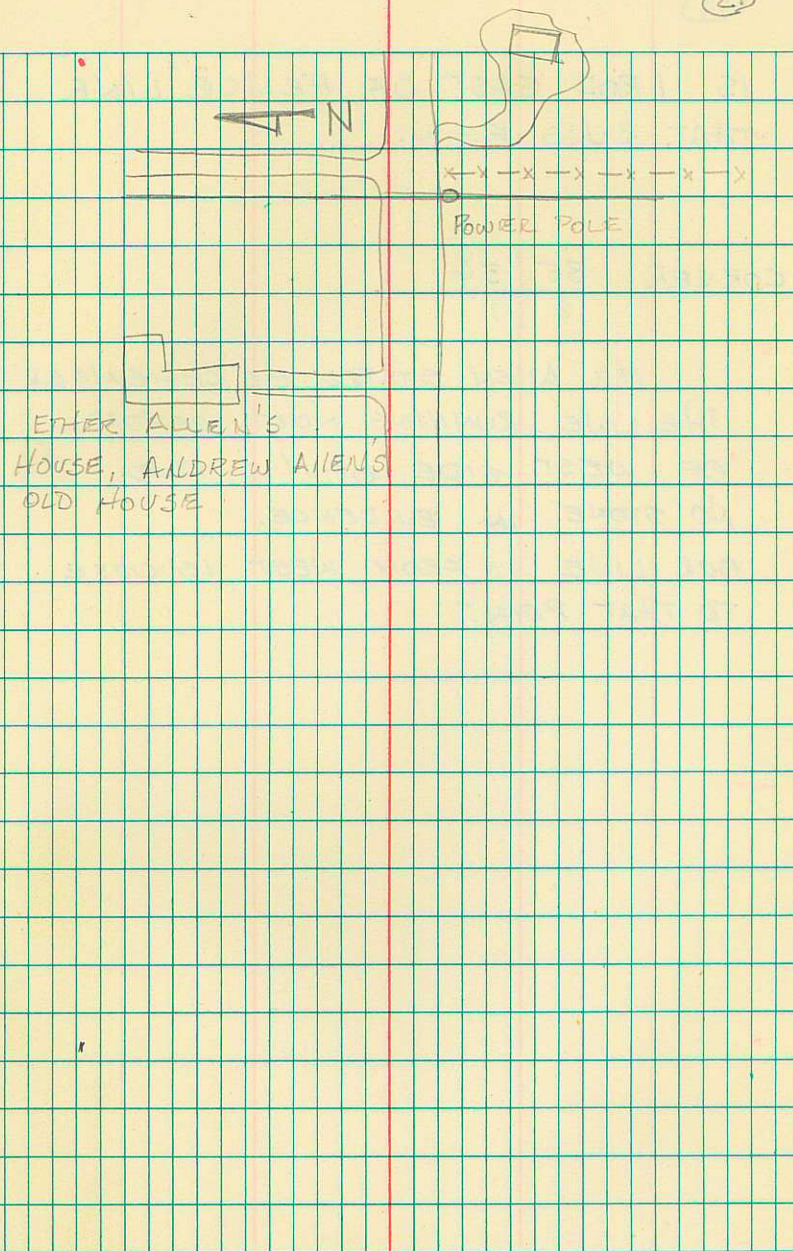
CORNER $\frac{2+1}{11+12}$

MR ETHER ALLEN SAID THAT
NORTH LINE IS ONE ROD EAST OF
WEST FENCE AND E-W LINE IS
SOUTH OF ROAD BETWEEN ROAD AND
DITCH. OUR RUNNING OF N-S. LINE
IS ABOUT 15' WEST OF POINT AND
E-W LINE IS 8.25' (1/2 ROD) NORTH
OF SOUTH FENCE. MR. ALLEN SAID
IT WAS SOUTH OF ROAD AS WE HAD
FOUND IT. WE DUG AROUND AND FOUND
NO STONE.

1/4 CORNER 2+1

MR ALLEN STATED THE CORNER

(21)



IS 1 ROD EAST OF FENCE LINE
THAT RUNS E-W.

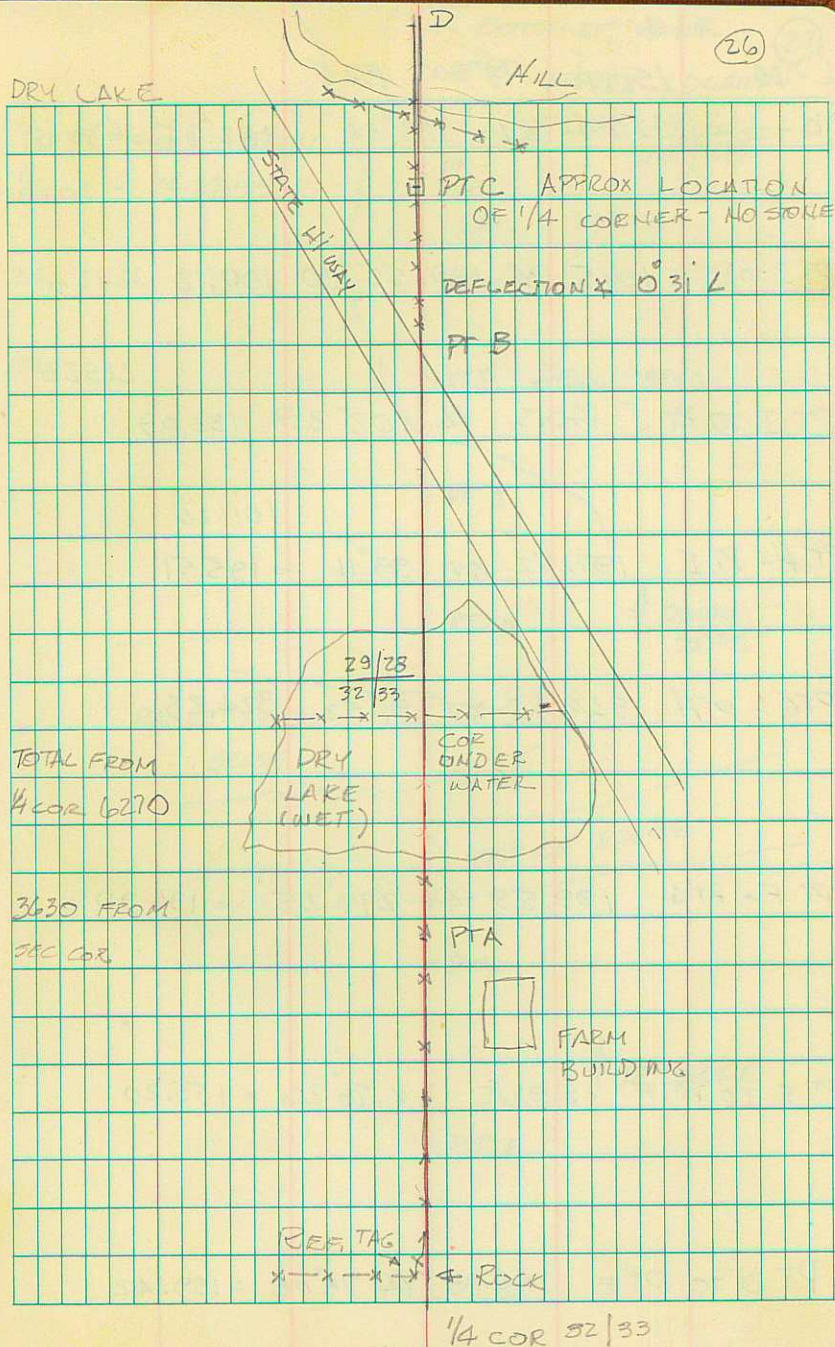
CORNER	35	36
	2	1

MR. ALLEN STATED HE REMEMBER
THE LINE RUNNING NORTH OF ROAD
OF WEST SIDE OF N-S ROAD
NO STONE IN EVIDENCE.

OUR LINE IN FROM WEST IS CLOSE
TO THAT POINT,

ASSUMED COR. TO PT A
SLOPED 283.80 $\pm$ 90° 24'

SEC. COR 1053.60 $\pm$ 90° 33'



L-M	200.6 100.5 152.1	113°30'	139.5		
K-L	207.5	$\Delta V = 118°30'$	182.35	2474.95	
PT J TO PT K	106.5	$\Delta V 109°55'30''$	100.12	2292.6	
				2192.5	
PT I TO PT J	140.3	$\Delta V 102°39'$	136.89		
			1011.26		
PT H- PT I	197.52	$\Delta V 98°11'$	= 195.51		
PT G - PTH	324.40	$\Delta V 91°52'$	324.23		
PT F- PT G	199.59	$\Delta V 279°25'$	= 196.90		
PT E TO PT F	159.65	$\Delta V 76°26'$	= 155.20		
PT D TO PT E	145.75	$\Delta V 73°08'$	= 139.42		

	BOTTOM OF RAVINE (21)
	PT M APPROX LOCATION
TOTAL FEET FROM	OF COR $\frac{20}{29} \frac{2}{28}$
1/4 COR = 2474.95	PT L
	NAIL & STAKE
347	PT K
448	PT J HEAVY BRUSH
	PT I
	PT H TOP A DOWN SLOPE
RAVINE HEAVY BRUSH	PT G
	TOP OF RIDGE
	PT F
	UP SLOPE
	PT E
	PT D

7565.67

TAPED 2640' FROM ASSUMED 1/4 CORNER
AND 7756.67 FROM 1/4 COR 32+33

IF MILE WAS MEASURED ACCURATELY THERE
WOULD BE 7476.67 OR 163.3' SHORT.

163.3' INTO FURTHER ON LINE WOULD MAKE
CORNER DOWN IN BOTTOM OF RAVINE AS
USGS MAP SHOWS IT SHOULD BE.

ORIGINAL SURVEYOR SET SANDSTONE 17x14x6
IN MOUND OF STONES.

CHAINED FROM 15 CORNER TO 7565.67
TAPED TO 2640' FROM 1/4 CORNER

44 D 15° OF L
+ SD 1768.43

(28)

17 99° 09

SEC LINE 29+28

20 JUNE 1978

HAVING FOUND NO TRACE OF CORNER

20+21 WE CONTINUED OUR LINE

29+28

TO CART. HILL.

WE TRIANGULATED TO FENCE CORNER

APPROX LOCATION OF NEXT 1/4 CORNER

S

121.77 $\Delta V =$ $84^{\circ}20'$ 121.17 2223.06

R

1665.96 ΔV $83^{\circ}35'$ 1655.52 2101.84

P

232.43 ΔV $70^{\circ}13'$ 228.33

O

229.23 ΔV $72^{\circ}01'$ 218.03

AN

H & 2150 1238.56 = 1217.89

ΔV $100^{\circ}29'$

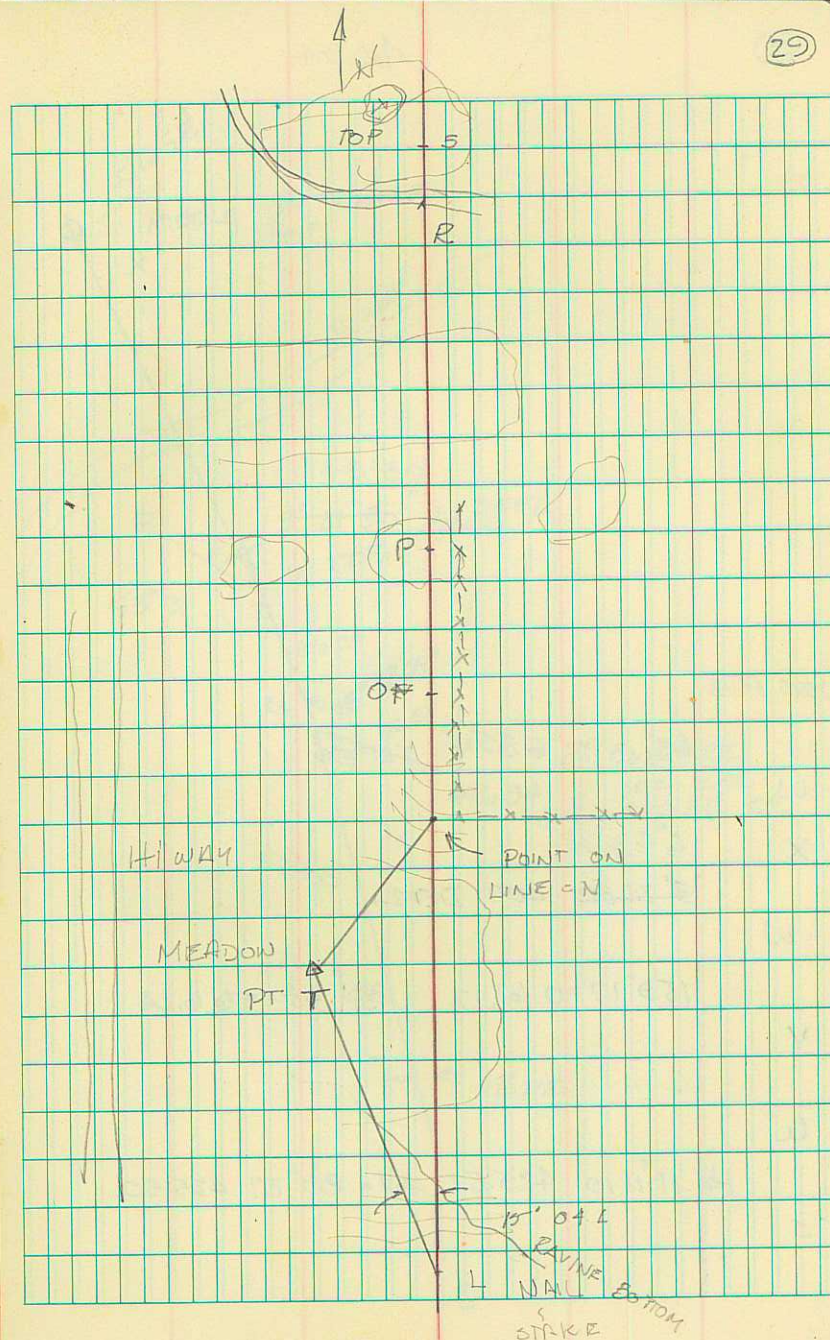
PT T Horiz $\Delta = 15^{\circ}04' L$ SLOPE D = 1763.43

$\Delta V = 99^{\circ}09'$

L

Horiz D = 1740.99

(29)



416.94

USGS HUB

W 43° 31' 685.5 TAPED

X

6° 43' 30" "

X

3' 21' 30" LEFT DEFL.

W

159° 17' 30" 67.12 80° 44' = 66.24

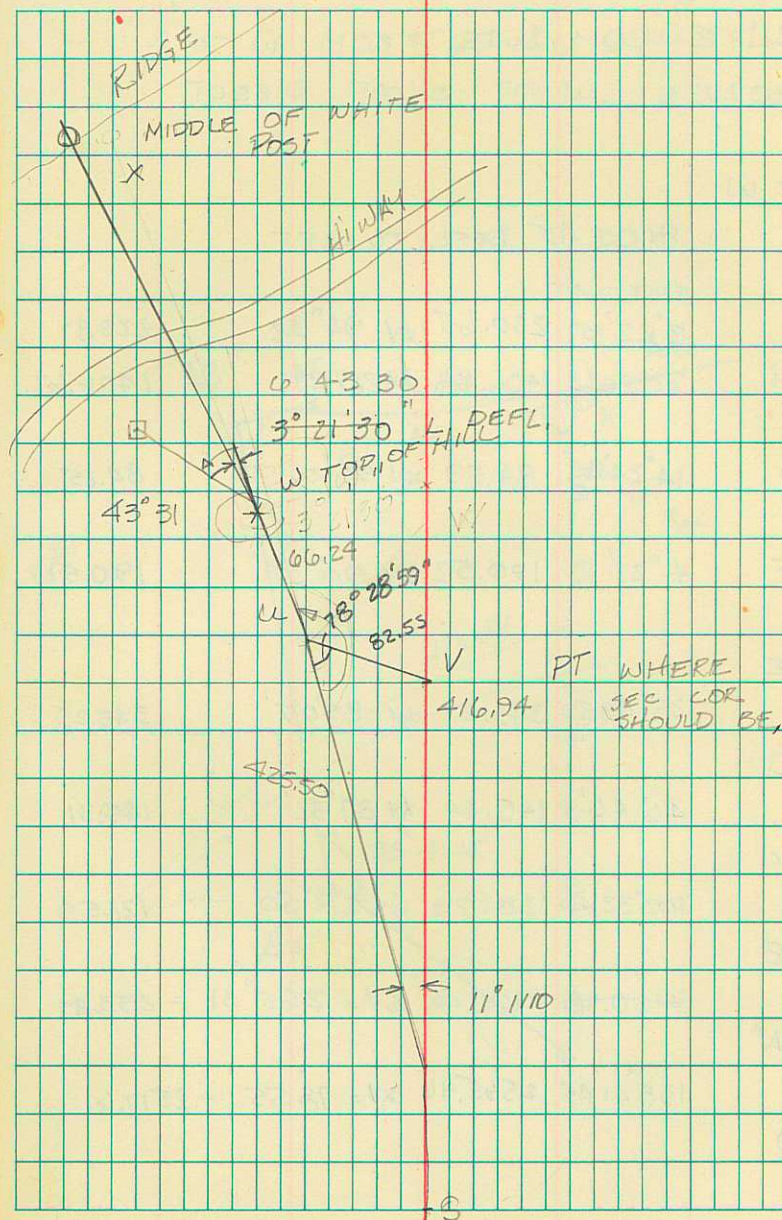
V

U

H₂ 11° 11' 425.52 4V = 89° 27' 425.50

S

(30)



RAW RANDOM LINE FROM W TO "X"
BECAUSE CAN NOT SHOOT DIRECT

 $\frac{1}{2} \omega$

810545 DEFL. TO LEFT

X

INSIDE TO LEFT

$3^{\circ}22'15''$	230.65	$\times \vee 94^{\circ}42'$	229.87
--------------------	--------	-----------------------------	--------

AH	27°26' L	1406.68	41 269°45'	1406.67
----	----------	---------	------------	---------

AG	$14^{\circ}24'45''$	84.59	$\times 195^{\circ}07'$	84.25
----	---------------------	-------	-------------------------	-------

AF	$4^{\circ}27'$	R	190.52	$\times V$	$90^{\circ}35'$	190.51
----	----------------	---	--------	------------	-----------------	--------

AE

25° 48' 30"	343.27	xv	89° 05'	343.23
-------------	--------	----	---------	--------

AD				
	$46^{\circ} 46' R$	145.44	$46^{\circ} 87' 32'$	145.31

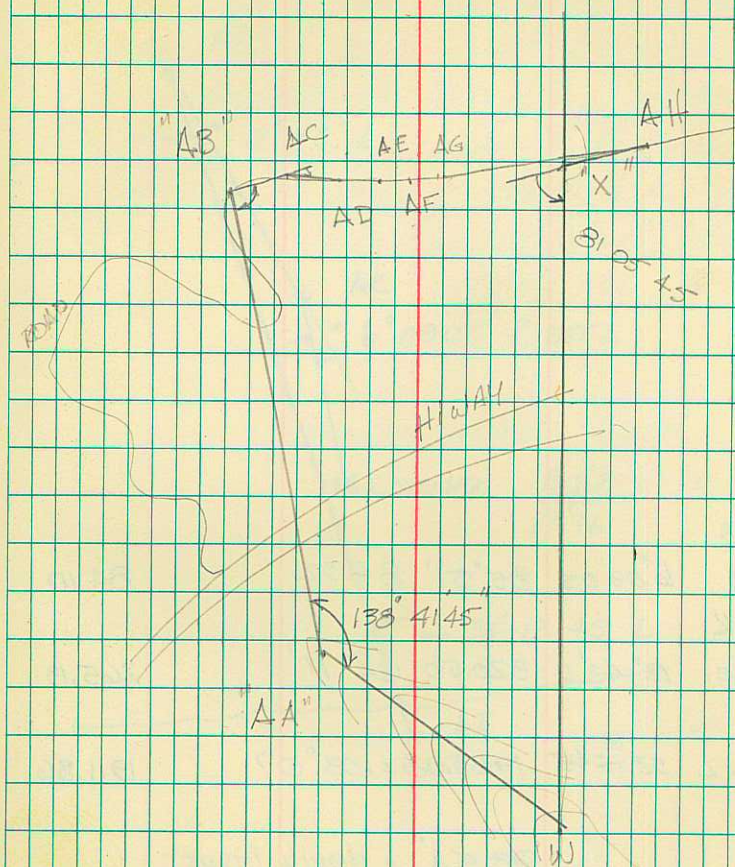
Ac						
	102°32' ⁵ ₄₀	128.79	41	271°50		127.59

$$\Delta B$$

$$\cancel{2160.48} \quad 2160.48 \times V = 265^{\circ} 31' = 2153.87$$
$$1384.45 \quad 2565.46 \quad \Delta V = 78.55 = 2517.61$$

w

138° 41' 31" 45" (31) 78° 25' 65.46" 55"



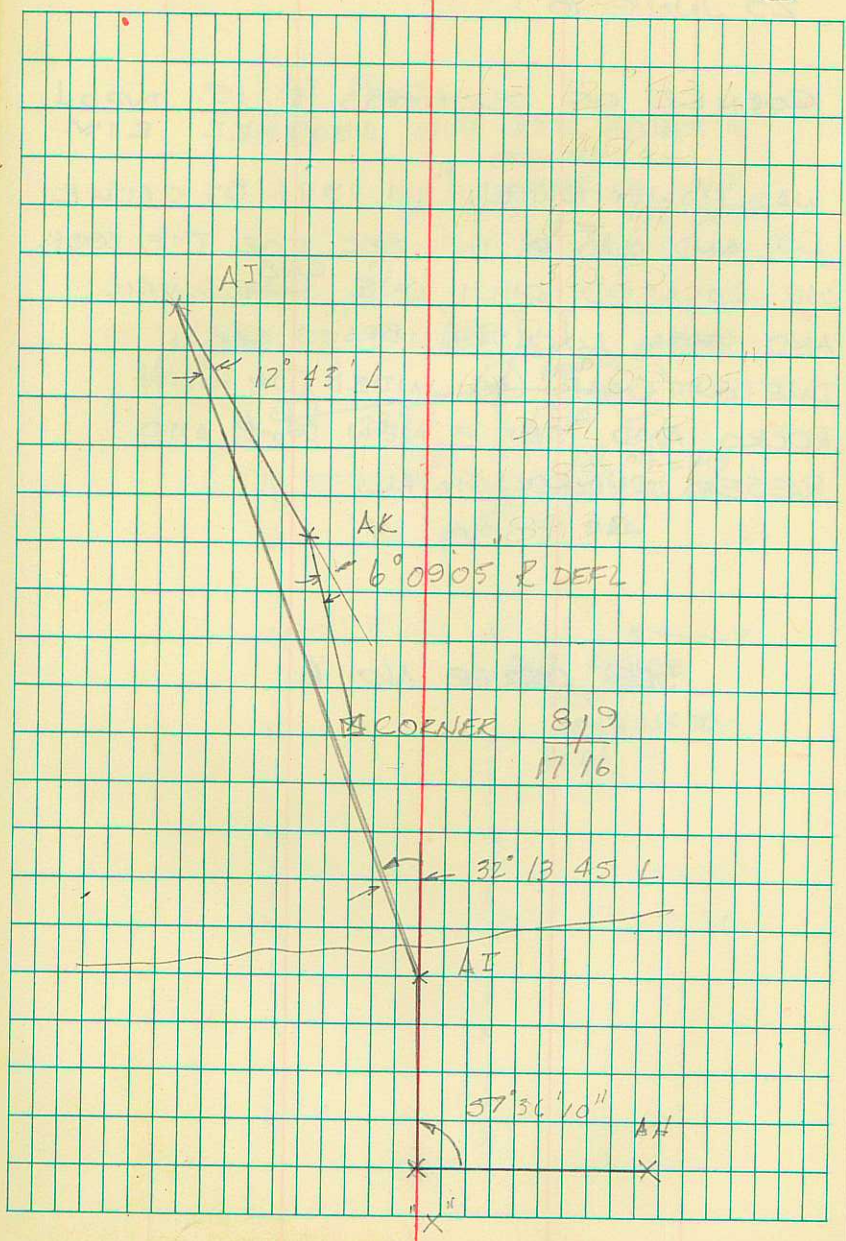
TW10H
RIW

22 JUNE CONT. NORTH LINE TO CORNER 8/9
17/16

FROM PT "X" RAN TO CORNER

CORNER				
DEFL. R	6°09'05"	85°51'	84.32	84.10
GO AK				
INSIDE	12°43' L	320.50	124°11'	265.13
AJ				
DEFL. L	32°15'45"	1963.08	103°07'	1911.86
AI				
"X"		93.54' - HORIZ (TAPE)		
AH		INSIDE 57°36'10" LEFT	AH X AI	

(32)



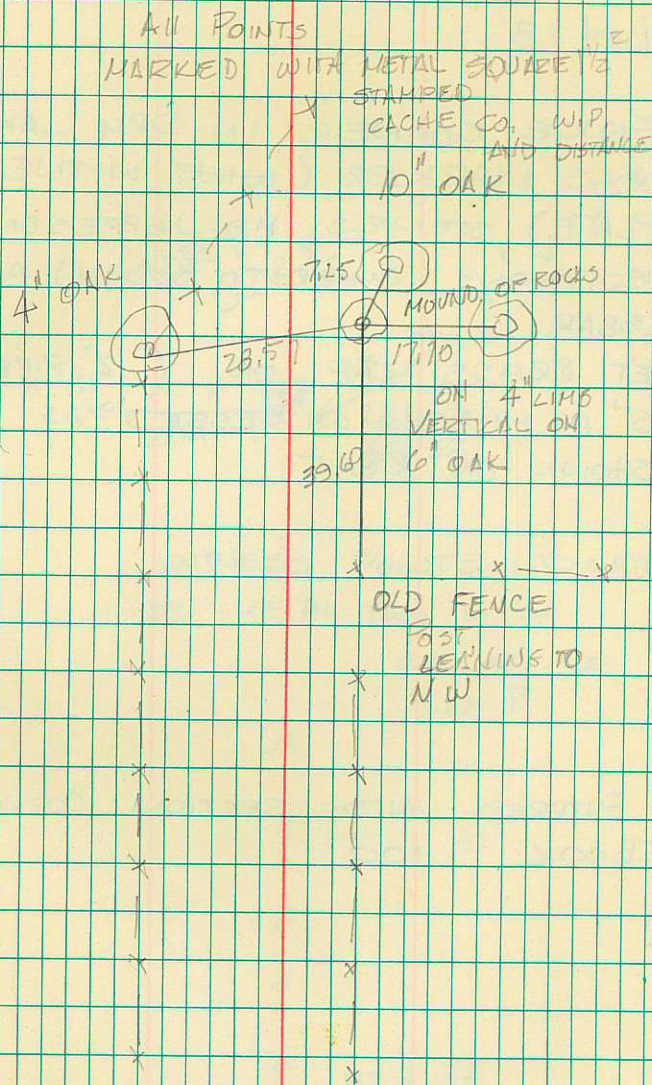
R LOCATED CORNER 39.60
23 JUNE 78

CORNER OF SECTIONS 16 | 15 TWP 10N
21 | 22 R 1W.

WAS MONUMENTED IN 1971 BY CACHE
CO. AND IS # 6 IN SEC. COR TIE BOOK
WE LOCATED ONLY ONE ^{CAB} HUB & NAIL
AND THEN LOCATED BRASS CAP.
DUG OUT CAP, MOUNDED UP WITH
ROCKS AND SET 3 NEW W.P. AND
RESET ONE ORIGINAL.

SEE CORNER NO. 6

(33)



MONUMENTATION
10N R1W

COR

28/29
32/33

8/10/78

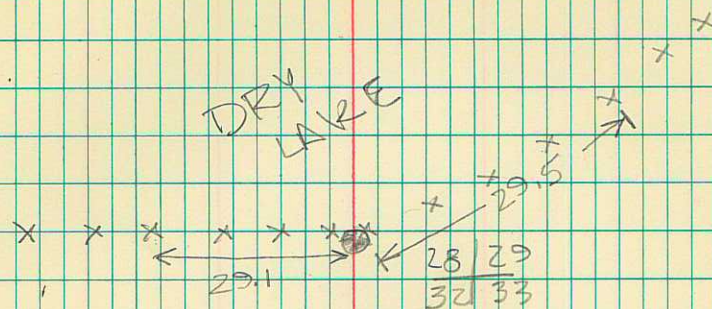
FENCE CORNER IN DRY LAKE
USGS MARKER (WHIT WITNESS
PLATE) STONES, MR. JEPPESON'S
TESTIMONY (OWNER TO SOUTH) AND
REBAR.

SET BRASS CAP ON 7" Z" PIPE
5' IN MARSH. WITNESSED AS
SHOWN ON RIGHT

ENTERED INTO SECTION CORNER
BOOK # 100

29.1
N

(34)



WITNESS POINTS INDICATED
BY METAL TAG WITH
CACHE CO
W. P.

x

x

x

x

x

32/33

RESURVEY OF TOWNSHIP CORNER T10N T11N R1E R1W

28 JUNE 1978

WARM, CLEAR

HUDSON NOTES

WARD 7

TO BEGIN WITH RAN LINE EAST FROM
CORNER $\frac{33}{4} \frac{34}{3}$ TO TOWNSHIP CORNER.

TOWNSHIP CORNER SET 1975 BY
COUNTY SURVEYOR ON INTERSECT
OF N-S LINE, E-W LINE.

WEST LINE WAS PREVIOUSLY MEASURED.

N-S LINE WAS PREVIOUSLY MEASURED.

E

$1^{\circ}42'15''$ 689.26 $90^{\circ}43'$ 689.21

D

$5^{\circ}27'48''$ 3039.08 $92^{\circ}16'$ 3036.70

C

2110.58 $94^{\circ}07'$ 2105.13

B

485.57 $93^{\circ}22'$ 484.73

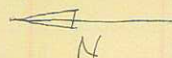
$\frac{34}{33} \frac{5}{4}$

1224.19 $276^{\circ}22'$ 1216.64

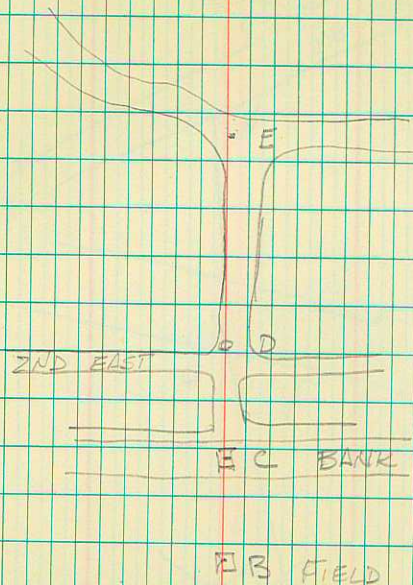
A

$\odot$ 1443.26 $274^{\circ}30'$ 1438.81

$\frac{33}{33} \frac{4}{4}$



(36)



$\frac{34}{33} \frac{45}{4}$

A

$\frac{33}{33} \frac{4}{4}$

H

 $7^{\circ}40'45''R$ 1878.01 $89^{\circ}18'$ 1877.87

G

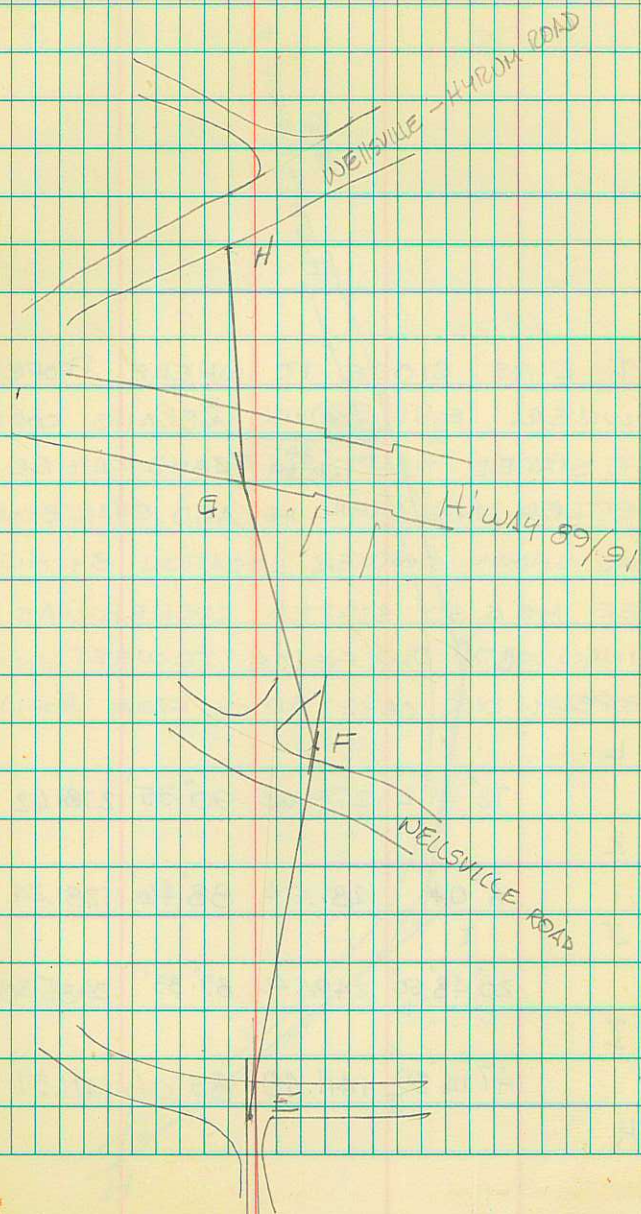
 $39^{\circ}03'10''L$ 1936.67 $90^{\circ}39'$ 1936.55

F

 $9^{\circ}46'15''R$ 1064.33 $270^{\circ}05'$ 1064.33

E

(37)



PT L IS CLOSE TO WHERE PROPERTY OWNER EVAN BROWN RECALLS CORNER, HE STATED THAT HIS GRAND FATHER SETTLED THIS AREA ~~IS~~ AND EVAN BROWN WAS SHOWN CORNER LOCATION BY HIS UNCLE LEE, HE ALSO STATED CORNER WAS IN LINE WITH OLD FENCE TO WEST.

PROPERTY DISC. SAYS 3.0 CH FROM ROFW WHICH

L

ALSO AGREES

72° 41' L 278.63 90° 35' 278.62

K

6° 04' 1281.54 88° 46' 1281.24

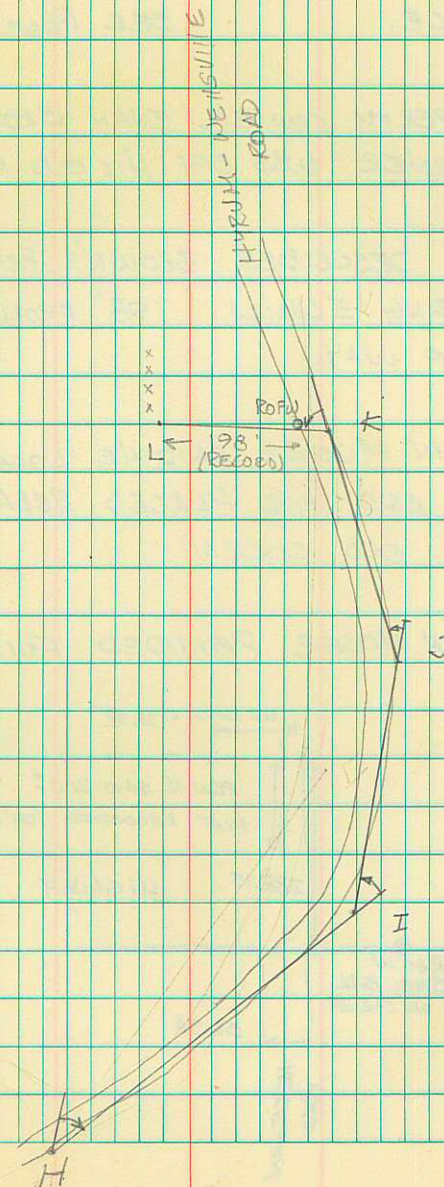
J

20° 48' 50" L 2485.46 89° 33' 2485.38

I

47° 14' 30" R 1411.48 89° 06' 1411.31

H

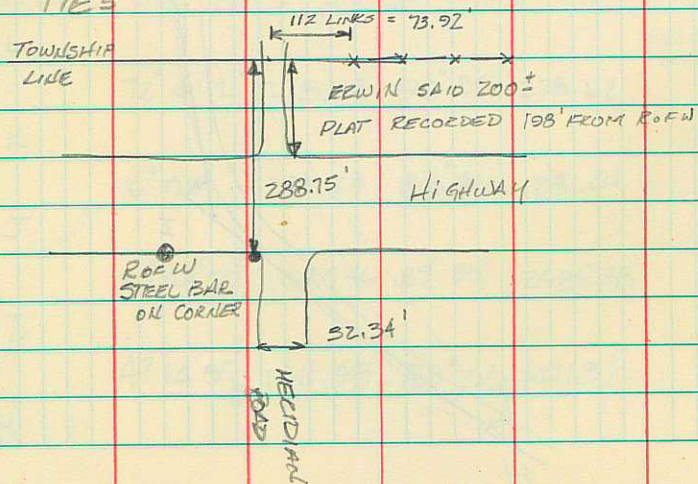


TOWNSHIP CORNER $\frac{R1W}{10} \frac{R1E}{10}$

EVIDENCE.

SEE PAGE 50

- ① PROPERTY OWNER EVAN BROWN SAID CORNER WAS OFF HIS OLD FENCE.
- ② PLAT DESCRIBES BROWN'S PROPERTY HAS BEING 3 CHAINS 198' FROM HIGHWAY RIGHT OF WAY.
- ③ ERWIN MOSER SAID HE LOCATED CORNER 7 YEARS AGO AND PLACED REBAR. REBAR WAS IN OLD CORRAL.
- ④ ERWIN MOSER PROVIDED FOLLOWING TIES



TWENTION R1W/R1E

SINGLE PROP. ON PRIME MERIDIAN FOR

25/30
56/31

7 JULY 78

HUDSON R.C.

WARD T

COMMENCE RANDOM LINE AT 25/30

(BRASS CAP #81) BACK SIGHTED ON

POSSIBLE CORNER 1/2 MILE TO NORTH

(STONE ON LINE, BAD MARKINGS) AND

RAN SOUTH 1 1/2 MILES TO TOWNSHIP

CORNER

F

830.28 75°32' 803.95 4471.39

C

D

1072.32 100°05' 1055.76 2611.68

C

2581.01 90°28' 2580.92 3661.44

B

840.03 271°00' 839.90 1086.52

A

248.04 83°52' 246.62

30 + 25

(41)

ED CLOSE TO TOP
OF HILL

C.
UP
RAVINE
D NAIL & STAKE
BACKSIGHT
GET
DOWN NAIL

B

A

(30) 08 52 (25)

N

(30) 08 52 (25)

TOTAL DISTANCE $\frac{1}{4}$ COR TO J IS 7964.76
~~THE~~ CORNERS PROPORTION AT 2654.92 AND
5309.84. FROM $\frac{1}{4}$ CORNER, & TOTAL
DEPARTURE IS 4671' SO PROPORTIONATE
OFFSET IS 15.57' AND 31.14 FT.

SO, COORDINATES OF SEC COR IS 2654.9, 15.6
COORDINATES OF $\frac{1}{4}$ COR IS 5309.8, 31.1

SECTION COR SET 43.42' SOUTH AND 15.6' EAST OF D.
 $\frac{1}{4}$ CORNER SET 329.2' SOUTH AND 31.14 EAST OF G

J 1°44' D.L. 1544.42 90°31' 1544.36 76 7965.47

I 1440.51 90°12' 1440.50 6421.13

G 662.09 91°05' 661.97 5642.58

G 243.69 85°48' 243.04 4980.61

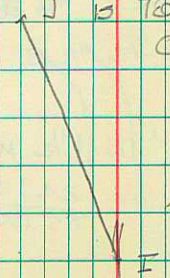
F 269.74 80°41' 266.18 4737.57

E

Q. Culver

→ SEE PAGE 44
THIS BOOK

J IS TOWNSHIP
CORNER



- F

- E

RANDOM LINE SOUTH OF MERIDIAN LINE
FROM CORN ^{13/18} TO 25 ³⁰ TO LOCATE CORNER ^{24/19} _{25/30}

HUDSON - P.C.

WARD - R

COMMENCE AT CORNER + (BRASS GAP)
AND BEIRAN SOUTH TO 25 ³⁰

TOTAL DISTANCE IS 7970.35, RECORDED DISTANCE
IS 7920.0 THEREFORE THERE IS 50.3'
LONG OR 16.8' PER 1/2 MILE.

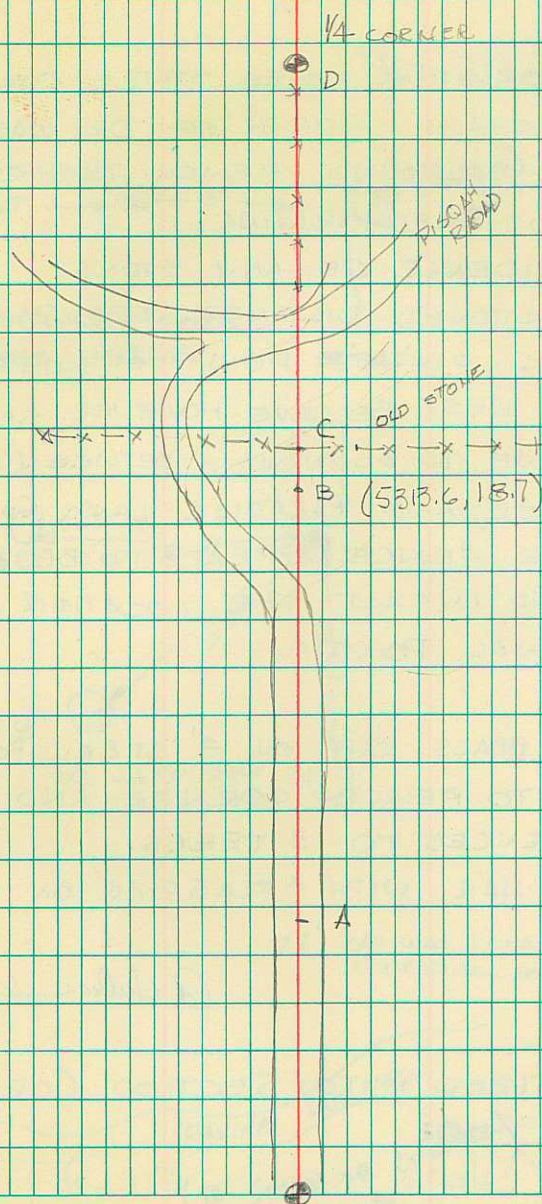
RE C IS 1 1/2 MILE

DEPARTURE IS 28.11' IN 1 1/2 MILE OR 9.37' / 1/2 MILE
18.74' AT CORN OF ^{24/19} _{25/30} (WEST)

D	DR	(BR 1-76)
	0° 36' 20"	2659.82 RECORDED IN MISC SURV. BOOK 5/20/76
C		
	128.42	93° 05' 128.23
B		
	2104.49	84° 02' 2093.09
A		
	3091.64	87° 51' 3089.46

COR ^{13/18} _{24/19}

(43)



MONUMENTATION OF SEC 36/31 TWN 10 N

CALL ON ORIGINAL NOTES STATES CORNER
WAS 1 CHAIN NORTH OF DRY WASIT
RAVINE. WE FOUND FENCE CORNER
TO BE 77' FROM RAVINE.

NO EVIDENCE OF ANY STONE.

PROPORTIONED DISTANCE. SEE PAGE 42
THIS BOOK PLACES POINT A1' NORTH
AND 15' WEST. BELIEVE HOWEVER SINCE
FENCE LINE IS BOUNDARY BETWEEN
JOS. PARKER AND PARADISE LAND CO.
AND SINCE FENCE APPEARS TO BE OLD
THAT IT IS IN FACT THE LOCATION OF
THE ORIGINAL POINT.

SET BRASS CAP ON 3' STEEL POST
NEXT TO FENCE CORNER AND
REFERENCED TO 3 TREES.

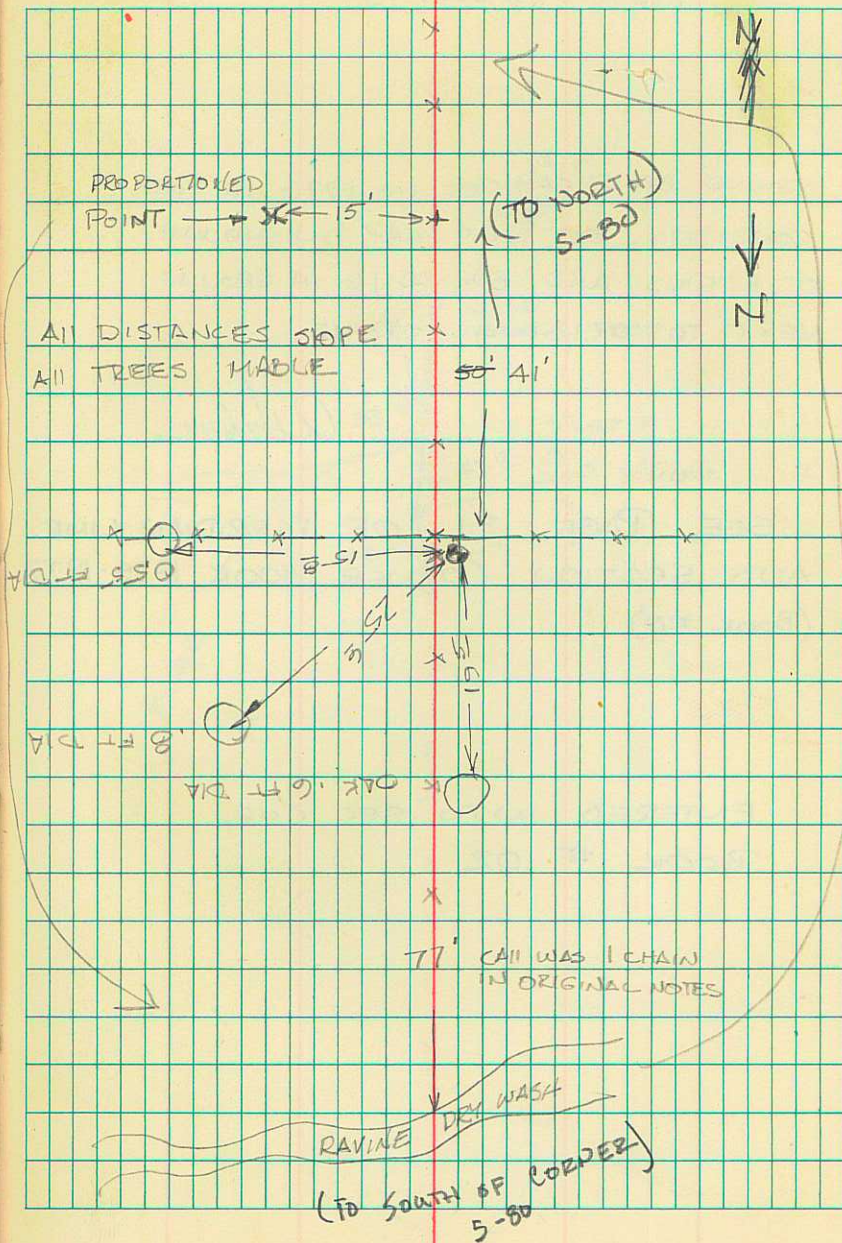
USED NAIL WITH FLAGGING ON TREES.

@ Hudson

ENTERED INTO SECTION CORNER
BOOK # 101

* (CHECK TIES IN FIELD)

李



MONUMENTATION OF TOWNSHIP CORNER
 IN 36 31 E
 10N 116
 9N 116
 11 JULY 78

FOUND BRASS CAP SET IN 1976 IN POOR
 CONDITION. SET NEW CAP IN MOUND
 OF ROCKS AND BURIED 16" IN GROUND
 NEXT TO ORIGINAL STONE.

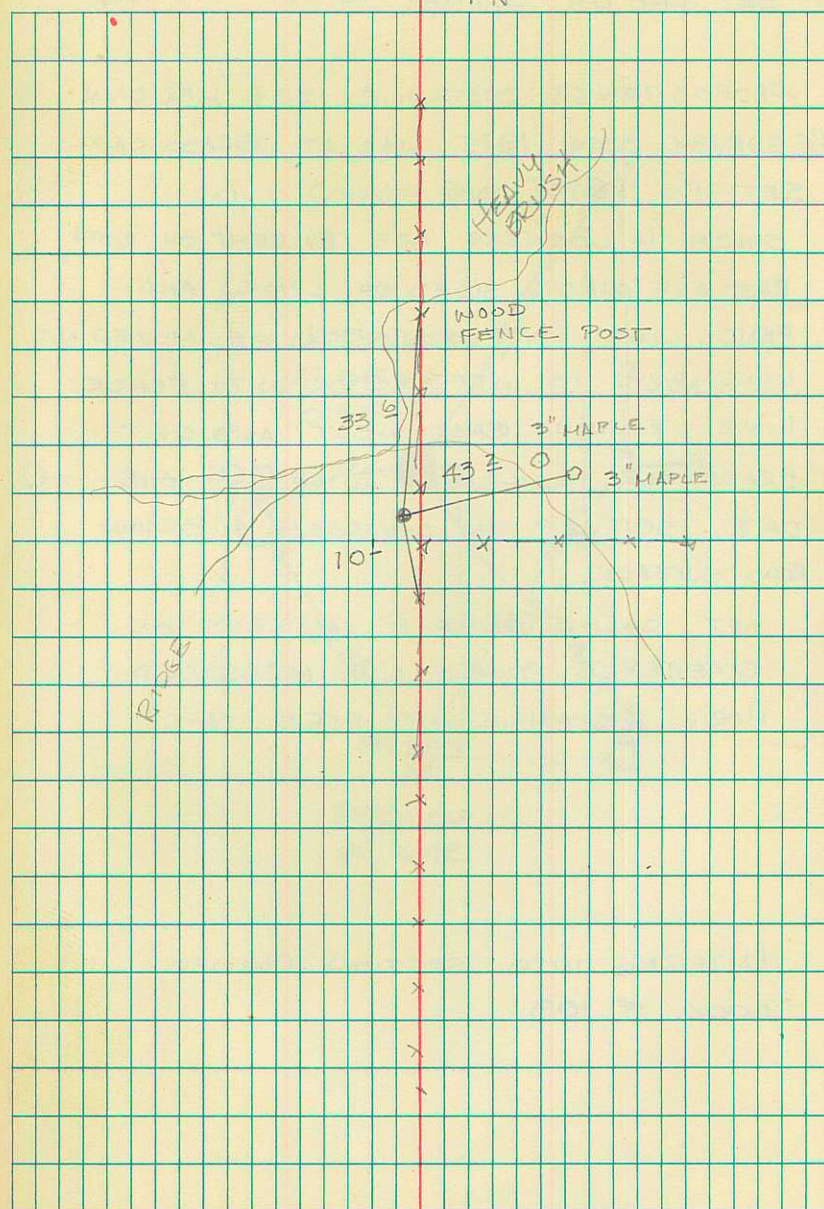
A. Hudson

SEE PAGE 31 OF MERIDIAN LINE
 AND SECTION CORNER BOOK 1975-1977
 (BOOK #0)

ENTERED INTO SEC. COR.
 BOOK #102

45

4 N



JULY 178.

R/W $\frac{116}{127}$ R/W

SET CAP ON CORNER 12/7 TWINION

PROPORTIONED DISTANCE SEE "MERIDIAN
RESURVEY BOOK" 1975 WAS AT BRASS CAP
SET IN 1975.

SINCE 1/4 CORNERS ARE EVIDENT ON BOTH
EAST AND WEST SIDES OF LINE AND
FENCE LINE RUNS BETWEEN WE MOVED N-S
LINE NORTH TO INTERSECTION WITH FENCE
LINE RUNNING EAST-WEST AND SET
BRASS CAP INSCRIBED WITH $\frac{116}{127}$ AND
DATE. SET CAP IN CONCRETE 4" BELOW
ROAD SURFACE.

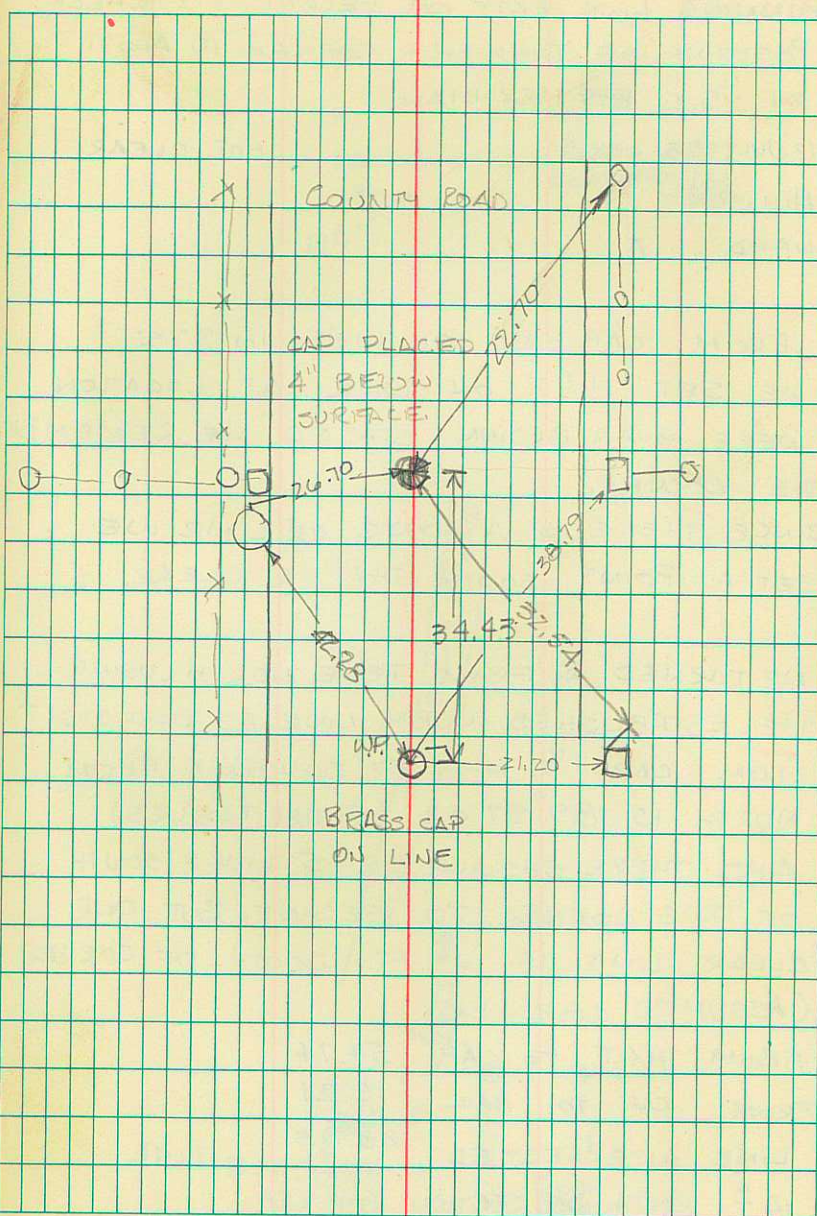
SET CACHE CO. W. P. MARKERS ON
REFERENCE POINTS AND MEASURED
HORIZ. DISTANCE WITH STEEL TAPE.

ENTERED INTO SECTION CORNER
BOOK # 103

34.4

N

46



RUNNING LINE EAST ON SECANT TO CHECK
POSITION OF TOWNSHIP CORNER 10 AND 11
ON S.L. ~~B~~ MERIDIAN.

12 JULY 78

HOT, CLEAR

HUDSON P.C.

WARD T

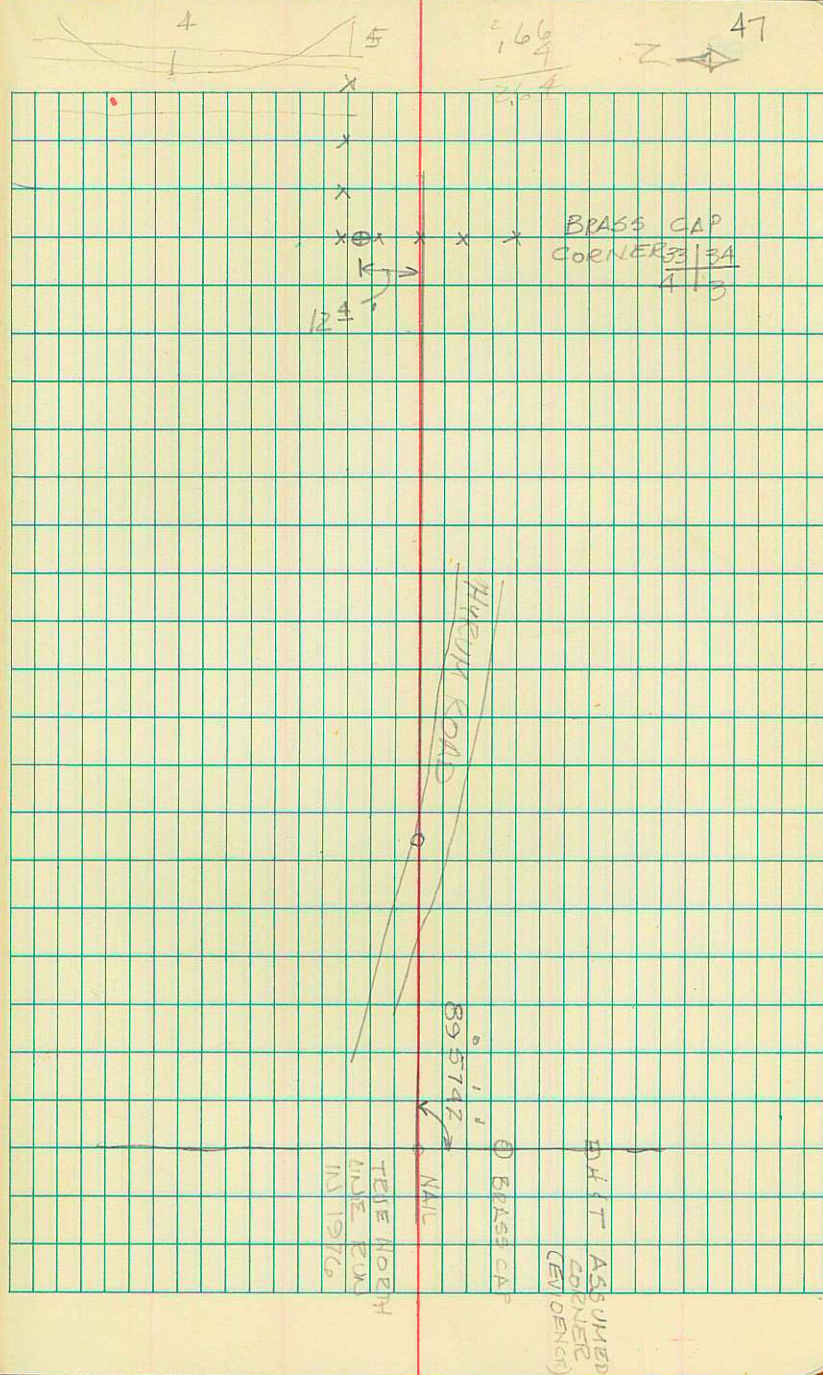
FROM CAP SET ON LINE IN 1975
WE SET H&T ON LINE AT LOCATION
WHERE EVAN BROWN STATED HE REMEMBERS
THE CORNER.
SINCE THERE IS A HOUSE ON LINE WE
SET A POINT SOUTH THAT IS CLEAR.

WE TURNED $\times$ FROM TRUE NORTH (USING
THE ESTABLISHED NORTH LINE AS BACKSIGHT
FROM CAP $1\frac{1}{2}$ MILE TO SOUTH) $\times$ FROM
NORTH IS $89^{\circ}57'42''$ (FROM TABLES)
AND THERE SHOULD BE 5 LINKS SOUTH
OF TRUE CORNER TO SECANT. BUT OUR
CLEAR LINE IS FT SOUTH OF CORNER
(ASSUMED CORNER)

FROM H&T TO CAP 54.74

FROM CAP TO NAIL 19.21

LINE INTERSECTED 63.95
12 $\frac{4}{1}$ NORTH OF SECTION CORNER



MONUMENTATION OF CORNER $\frac{819}{161} \frac{\text{TWN } 10N}{R1W}$
 NARROW
 CANYON
 7 6

FOUND ORIGINAL STONE AND FOREST
 SERVICE WITNESS PLAQUE

MONUMENT IS BURIED ALONG SIDE STONE
 ON 3' PIPE

INSCRIBED WITH $\frac{\text{T10N}}{8} \frac{\text{R1W}}{9}$
 17 16
 7/12/78

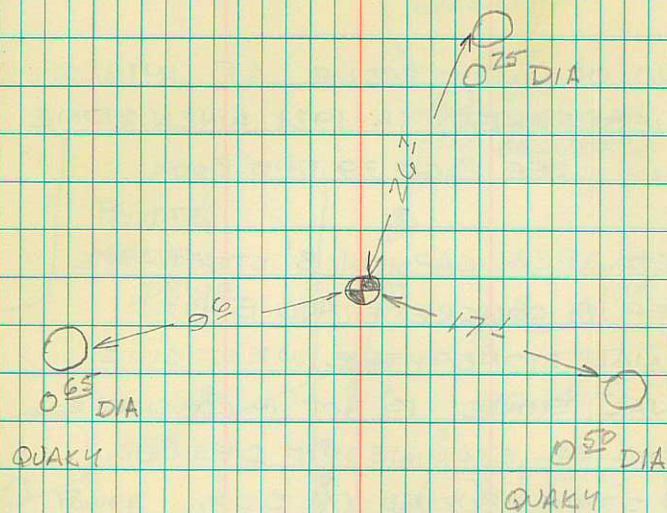
MOUND OF STONE PILED AROUND CAP
 RED METAL FENCE POST ALONG SIDE

ENTERED INTO SECTION
 CORNER BOOK # 104



49

TRAIL IN BOTTOM OF
 CANYON



ALL DIST. SLOPE

MONUMENTATION TO TOWNSHIP CORNER

17 JULY 78

11 N
36 3.
1 1 6 1 E
10 N

FOUND ORIGINAL STONE AT INTERSECTION
OF TIES TAKEN IN 1921 WHEN STONE
WAS IN SEE PAGE 39 THIS BOOK.

BURIED BRAS CAP ON 3' STEEL PIPE
3' DEEP IN CONCRETE AND BURIED
ORIGINAL STONE TO THE WEST SIDE.
ORIGINAL STONE IS NOT IN CONCRETE
AND CAN BE EXAMINED IF DESIRED.
FOUND STONE BURIED ON SIDE.

LOCATION AGREES WITH OLD TIES, OWNER
EVIDENCE (EVAN BROWN) PLAT DESCRIPTION.
8' 9" SOUTH OF OLD FENCE, (1/2 ROD)?

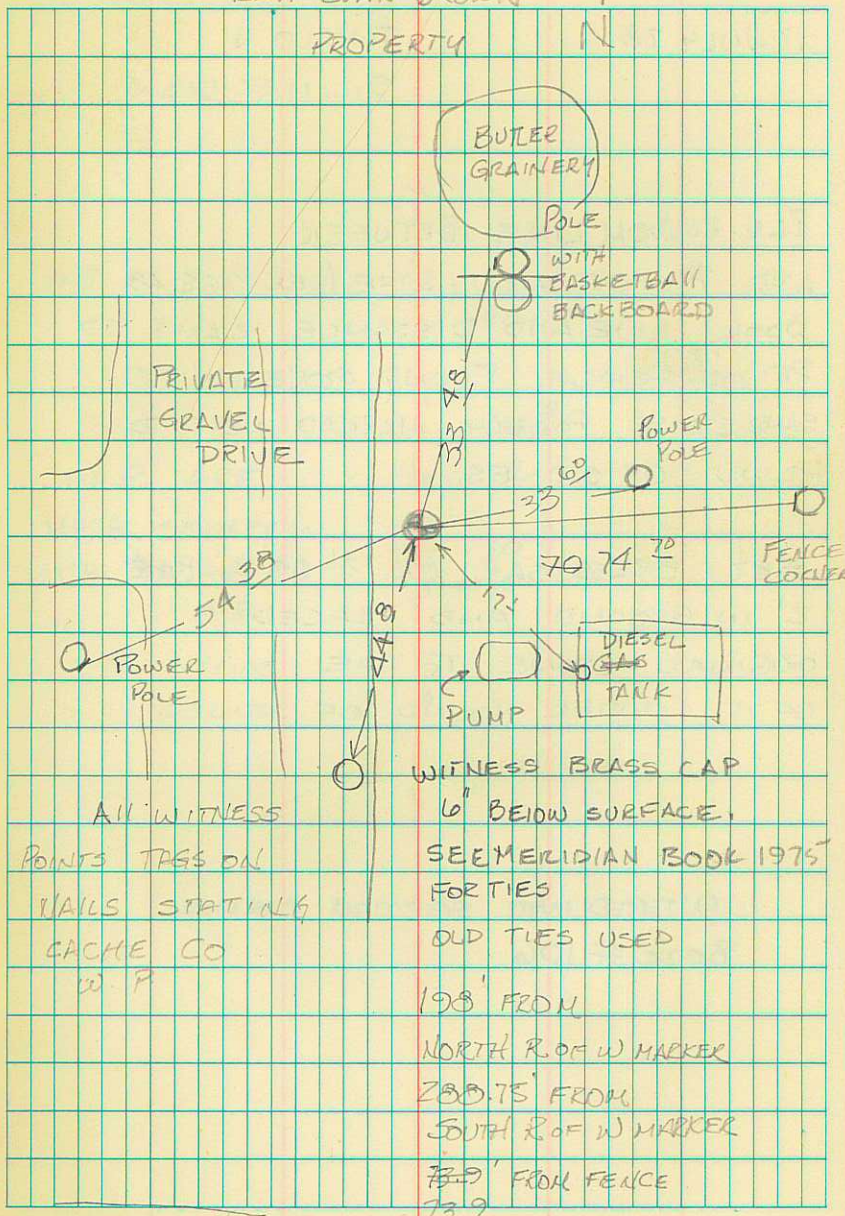
ENTERED INTO SECTION
CORNER BOOK # 105

EVAN EVAN BROWN

PROPERTY

N

50



MONUMENTATION OF

24 19
SEC COR 75 30

17 JULY 78

TWENTY N

SIL. MERIDIAN

RAN RANDOM LINE BETWEEN
AND PROPORTIONED LINE (SEE PAGE 43 THIS
BOOK) LINE AND DISTANCE. CAME TO
IT ON ^{EW} FENCE. FOUND STONE WHITE
SAND STONE POORLY MARKED NEXT TO
MOUND OF STONES.

SET BRASS CAP ON 3' OF 2" PIPE
2' IN GROUND AND PLACED
ORIGINAL STONE TO THE SOUTH
OF IT UNDER MOUND OF STONES

ENTERED INTO SECTION CORNER
BOOK # 106

51

N

X

X 3 WOOD
POST

X

19 8

W.P. ARE
METAL SQUARES
WITH "CACHE CO"
W.P.

X

10 3

X WOOD POST

X

X

X

MONUMENTATION OF $\frac{1}{4}$ COR 33-32
TWN 10N
R 1W

17 JULY 78

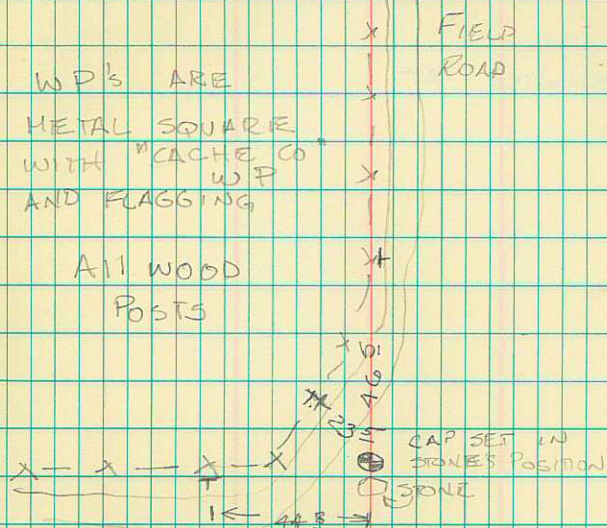
LOCATION VERIFIED BY MR. RAYMOND
JEPPESON OF MANTUA UTAH WHO
OWNS THE PROPERTY.

STONE IS ORIGINAL WITH $\frac{1}{4}$ ON
WEST FACE

SET BRASS CAP ON 3' PIPE
3' IN GROUND SET STONE TO
SOUTH OF BRASS CAP.

RECORDED IN MERIDIAN LINE
SECTION CORNERS BOOK # 107

52



POLARIS SHOT 19 JULY 78

EAST ELONGATION

E.E. GREENWICH 10 JULY 1^h 03^m 06^s

19 JULY

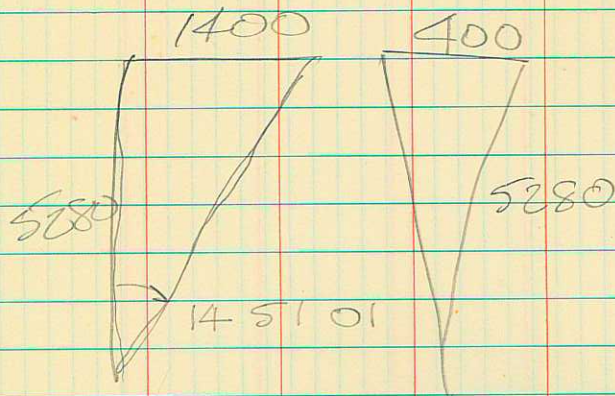
20 JULY 0^h 24^m 00^s

EEL GREENWICH AT

CHANGE FOR

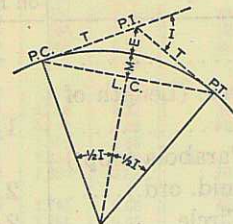
ANGLE AT EAST ELONGATION = $\sin 0^{\circ} 50.39'$
COS. COS 41.3346

$$\chi = 1^{\circ} 7' 19''$$



CURVE AND REDUCTION TABLES

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CURVE FORMULAS

1. Radius : $R = \frac{50}{\sin D/2}$
2. Degree of Curve: $D = 100 \frac{I}{L}$. Also, $\sin D/2 = \frac{50}{R}$
3. Tangent : $T = R \tan \frac{1}{2} I$. Also, $T = \frac{T \text{ for } 1^\circ \text{ curve}}{D} + C$.
4. Length of Curve: $L = 100 \frac{I}{D}$
5. Long Chord : $L.C. = 2R \sin \frac{1}{2} I$.
6. Middle Ordinate: $M = R (1 - \cos \frac{1}{2} I)$
7. External : $E = \frac{R}{\cos \frac{1}{2} I} - R$. Also, $E = T \tan \frac{1}{4} I$.

EXPLANATION AND USE OF TABLES

Given P.I. Sta. 83+40.7, $I = 45^\circ 20'$ and $D = 6^\circ 30'$ find:

Stations—P.C. = P.I. - T. $T = \frac{T \text{ for } 1^\circ \text{ Curve}}{D} + C$. From Tables V and VI

$T = \frac{2392.8}{6.5} + .197 = 368.32 = 3 + 68.32$. Sta. P. C. = 83+40.7 - (3+68.32) = 79+72.38.

P. T. = P. C. + L, and $L = 100 \frac{I}{D} = 100 \frac{45.33}{6.5} = 697.38$. Therefore, P. T. = (79+72.38) + (6+97.38) = 86+69.76.

Offsets—Tangent offsets vary (approximately) directly with D and with the square of the distance. From Table III Tangent Offset for 100 feet = 5.669 feet. Distance = 80 - Sta. P. C. = 27.62. Hence offset = $5.66 \times \left(\frac{27.62}{100}\right)^2 = .432$ ft. Also, square of any distance, divided by twice the radius equals (approximately) the distance from tangent to curve. Thus $(27.62)^2 \div (2 \times 881.95) = .432$ ft.

Deflections—Deflection angle = $\frac{1}{2} D$ for 100 ft., $\frac{1}{4} D$ for 50 ft., etc. For "X" ft., Deflection Angle (in minutes) = $.3 \times X \times D$. For Sta. 80 of above curve Deflection Angle = $.3 \times 27.62 \times 6.5 = 53.86'$. Also Deflection Angle = defl. for 1 ft. from Table III $\times X = 1.95 \times 27.62 = 53.86'$. For Sta. 181 Deflection Angle = $53.86' + \frac{6^\circ 30'}{2} = 4^\circ 8.86'$.

Externals—From Table V for 1° curve, with central angle of $45^\circ 20'$, $E = 479.6$. Therefore, for $6^\circ 30'$ curve, $E = \frac{479.6}{6.5} + \text{Correction from Table VI} = 7.378 + .039 = 7.417$.

STADIA RE DIAG

Enter on the horizontal the value of the staff interval times the sine of the angle and run vertically to the intersection with the vertical angle. of this point with the dotted line "ONE" etc. gives the true horizontal distance to be subtracted from the entering value which "f + o" (about 1 foot) is added to obtain the true horizontal distance. reading on the vertical scale plus about 0.1 for each 5° of vertical angle (f + o) sin α the true vertical distance. If the vertical angle is beyond the range of diagram, use $H = R \cos^2 \alpha + 1$ to find true horizontal distance and $V = R \times \frac{1}{2} \sin 2\alpha$ for true vertical distance, where R equals observed stadia distance and α equals vertical angle.

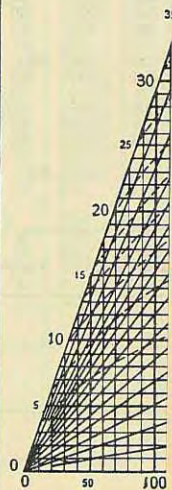


Table X.—Calculation of Earthwork.

Width	HEIGHT													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	.02	.04	.06	.07	.09	.11	.13	.15	.17	.18	.20	.22	.24	.26
2	.04	.07	.11	.15	.18	.22	.26	.30	.33	.37	.41	.44	.48	.52
3	.06	.11	.17	.22	.28	.33	.39	.44	.50	.56	.61	.67	.72	.78
4	.07	.15	.22	.30	.37	.44	.52	.59	.67	.74	.81	.89	.96	1.04
5	.09	.19	.28	.37	.46	.56	.65	.74	.83	.93	1.02	1.11	1.20	1.30
6	.11	.22	.33	.44	.56	.67	.78	.89	1.00	1.11	1.22	1.33	1.44	1.55
7	.13	.26	.39	.52	.65	.78	.91	1.04	1.16	1.30	1.42	1.55	1.68	1.81
8	.15	.30	.44	.59	.74	.89	1.04	1.19	1.33	1.48	1.63	1.78	1.92	2.08
9	.17	.33	.50	.67	.83	1.00	1.17	1.33	1.50	1.67	1.83	2.00	2.17	2.33
10	.18	.37	.56	.74	.93	1.11	1.30	1.48	1.67	1.85	2.04	2.22	2.41	2.59
11	.20	.41	.61	.82	1.02	1.22	1.43	1.63	1.83	2.04	2.24	2.44	2.65	2.85
12	.22	.44	.67	.89	1.11	1.33	1.56	1.78	2.00	2.22	2.44	2.67	2.89	3.11
13	.24	.48	.72	.96	1.20	1.44	1.68	1.92	2.16	2.41	2.65	2.89	3.13	3.37
14	.26	.52	.78	1.04	1.30	1.55	1.81	2.08	2.33	2.59	2.85	3.11	3.37	3.63
15	.28	.56	.83	1.11	1.39	1.67	1.94	2.22	2.50	2.78	3.06	3.33	3.61	3.89
16	.30	.59	.89	1.18	1.48	1.78	2.07	2.37	2.67	2.96	3.26	3.56	3.85	4.15
17	.31	.63	.94	1.26	1.57	1.89	2.20	2.52	2.83	3.15	3.46	3.78	4.09	4.41
18	.33	.67	1.00	1.33	1.67	2.00	2.33	2.67	3.00	3.33	3.67	4.00	4.33	4.67
19	.35	.70	1.06	1.41	1.76	2.11	2.46	2.82	3.17	3.52	3.87	4.22	4.57	4.92
20	.37	.74	1.11	1.48	1.85	2.22	2.59	2.96	3.33	3.70	4.07	4.44	4.81	5.18
21	.39	.78	1.17	1.55	1.94	2.33	2.72	3.11	3.50	3.89	4.28	4.67	5.06	5.44
22	.41	.81	1.22	1.63	2.04	2.44	2.85	3.26	3.67	4.07	4.48	4.89	5.30	5.70
23	.43	.85	1.28	1.70	2.13	2.56	2.98	3.41	3.83	4.26	4.68	5.11	5.54	5.96
24	.44	.89	1.33	1.78	2.22	2.67	3.11	3.56	4.00	4.44	4.89	5.33	5.78	6.22
25	.46	.92	1.39	1.85	2.31	2.78	3.24	3.70	4.17	4.63	5.09	5.56	6.02	6.48
26	.48	.96	1.44	1.92	2.41	2.89	3.37	3.85	4.33	4.82	5.30	5.78	6.26	6.74
27	.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00
28	.52	1.04	1.55	2.07	2.59	3.11	3.63	4.15	4.67	5.18	5.70	6.22	6.74	7.26
29	.54	1.07	1.61	2.15	2.68	3.22	3.76	4.30	4.83	5.37	5.91	6.44	6.98	7.52
30	.56	1.11	1.67	2.22	2.78	3.33	3.89	4.44	5.00	5.55	6.11	6.67	7.22	7.78
31	.57	1.15	1.72	2.30	2.87	3.44	4.02	4.59	5.17	5.74	6.32	6.89	7.46	8.04
32	.59	1.18	1.78	2.37	2.96	3.56	4.15	4.74	5.33	5.92	6.52	7.11	7.70	8.30
33	.61	1.22	1.83	2.44	3.05	3.67	4.28	4.89	5.50	6.11	6.72	7.33	7.94	8.55
34	.63	1.26	1.89	2.52	3.15	3.78	4.40	5.04	5.67	6.29	6.93	7.56	8.18	8.81
35	.65	1.30	1.94	2.59	3.24	3.89	4.53	5.18	5.83	6.48	7.13	7.78	8.42	9.08
36	.67	1.33	2.00	2.67	3.33	4.00	4.66	5.33	6.00	6.67	7.33	8.00	8.67	9.33
37	.68	1.37	2.06	2.74	3.42	4.11	4.79	5.48	6.17	6.85	7.54	8.22	8.91	9.59
38	.70	1.41	2.11	2.82	3.52	4.22	4.92	5.63	6.33	7.03	7.74	8.44	9.15	9.85
39	.72	1.44	2.17	2.89	3.61	4.33	5.05	5.78	6.50	7.22	7.95	8.67	9.39	10.11
40	.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.67	7.41	8.15	8.89	9.63	10.37

Table X gives the number of cubic yards in a TRIANGLE 1 foot deep for a given width and height. CAUTION: Values obtained from the above tables are for the one TRIANGLE of the cross-section under consideration.

Corrections for tenths of feet in width and height may be made by considering numbers on the table from 1 to 9 as tenths and taking one tenth the values for the tenths. For example, to find the number of cubic yards when Width = W = 5.3 and Height = H = 5.3, opposite 16 in "Width" column and under 5 in the "Height" column read 1.48. To correct for additional 0.2 foot of width, opposite 2 in the "Width" column and under 5 in the "Height" column read 0.18 and correct to .108. To correct for additional 0.3 foot in height, under 3 in "Height" column and opposite 1 in "Width" column read 0.89 and correct to .089. Therefore, the total cubic yards in given TRIANGLE for a depth of 1 foot = 1.48 + .108 + .089 = 1.587 or approximately 159 cu. yds. per 100 feet.

If width exceeds 40 feet, use one half real width and multiply result by 2. If width and height are larger than values given on table use one half of each width and multiply result by 4.

$$\begin{array}{r} 49.82 \\ 8.13 \\ \hline 57.95 \\ - 3.78 \\ \hline 54.17 \end{array}$$

$$\begin{array}{r} 57.95 \\ 53.60 \\ \hline 4.35 \end{array}$$

