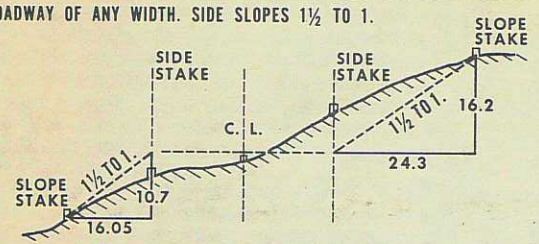
MERIDIAN LINE & SEC. COR. #0

MERIDIAN LINE AND SECTION CORNER BOOK #0

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

ROADWAY OF ANY WIDTH. SIDE SLOPES 1½ TO 1.



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 00	0 15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1 65	1 80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3 45	3.60	3 75	3.90	4.05	4.20	4 35	2
3	4.50	4 65	4.80	4.95	5 10	5 25	5 40	5.55	5.70	5.85	3
4	6.00	6 15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7 50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9 00	9 15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10 65	10.80	10.95	11.10	11.25	11.40	11.55	11 70	11.85	7
8	12.00	12 15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13 50	13.65	13 80	13 95	14.10	14.25	14.40	14 55	14.70	14.85	9
10	15.00	15 15	15 30	15 45	15.60	15.75	15.90	16.05	16.20	16 35	10
11	16 50	16 65	16 80	16.95	17 10	17.25	17.40	17.55	17.70	17.85	11
12	18 00	18.15	18.30	18 45	18.60	18 75	18.90	19.05	19.20	19 35	12
13	19 50	19 65	19.80	19.95	20.10	20.25	20 40	20.55	20.70	20.85	13
14	21.00	21 15	21.30	21.45	21 60	21.75	21.90	22 05	22 20	22 35	14
15	22 50	22 65	22 80	22 95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24 15	24 30	24 45	24.60	24.75	24 90	25 05	25.20	25.35	16
17	25.50	25 65	25.80	25 95	26.10	26 25	26 40	26.55	26.70	26.85	17
18	27.00	27 15	27.30	27 45	27.60	27.75	27.90	28.05	28 20	28.35	18
19	28 50	28 65	28 80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30 00	30 15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31 50	31 65	31.80	31.95	32 10	32 25	32.40	32.55	32 70	82 85	21
22	33 00	33 15	33 30	33 45	33.60	33 75	33.90	34.05	34.20	34.35	22
23	34 50	34 65	34.80	34.95	35.10	35 25	35 40	35.55	35.70	35 85	23
24	86 00	86 15	36.30	36 45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37 80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39 00	39 15	39.30	39 45	39 60	39.75	39.90	40.05	40.20	40.35	26
27	40 50	40 65	40 80	40.95	41.10	41.25	41 40	41.55	41.70	41.85	27
28	42 00	42 15	42.30	42.45	42.60	42 75	42.90	43.05	43.20	43.35	28
29	43 50	43 65	43.80	43 95	44.10	44 25	44 40	44.55	44.70	44 85	29
30	45 00	45 15	45.30	45 45	45.60	45.75	45.90	46.05	46 20	46.35	30
31	46.50	46.65	46.80	46 95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48 00	48.15	48.30	48 45	48.60	48 75	48.90	49.05	49 20	49.35	32
33	49.50	49 65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51 00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52 50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54 00	54.15	54.30	54 45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55 50	55 65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57 45	57.60	57.75	57.90	58.05	58.20	58 35	38
39	58 50	58.65	58 80	58.95	59.10	59 25	59.40	59 55	59.70	59.85	39
40	60 00	60.15	60 30	60 45	60 60	60.75	60 90	61.05	61 20	61.35	40

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THIS BOOK CONTAINS A RESURVEY OF THE MERIDIAN LINE, BEGUN AUG 13, 1975.

PAGE 34 - LOCATION AND WITNESS OF CORNER 1 | 6 T14N
R1E 12 | 7 R2E

SET #1	HOR	VERT	TIME	
	100°45'40"	57°10'30"	9:39'35"	AUG. 14, 1975
	100°56'55"	56°59'20"	9:40'35"	T - WILLIAMS
	101°05'10"	56°51'10"	9:41'20"	⊙ - HOANH
	100°44'00"	56°04'10"	9:42'45"	⊡ - WARD
	100°54'00"	55°54'40"	9:43'38"	70° +4700 FT.
	101°03'00"	55°45'50"	9:44'25"	AM
AVERAGE	100°54'47"	56°27'37"	9:42'03"	
SET #2	102°43'20"	55°18'10"	9:49'50"	
	102°52'40"	55°09'30"	9:50'37"	AM
	103°01'00"	55°01'50"	9:51'19"	
	102°31'30"	54°22'00"	9:52'04"	
	102°37'20"	54°16'20"	9:52'35"	
	102°45'50"	54°08'40"	9:53'18"	
AVERAGE	102°45'17"	54°52'45"	9:51'37"	

THE INSTRUMENT WAS SET UP ON THE MERIDIAN LINE, TOWNSHIP 10 N RANGE 1E & 1W, CORNER OF SECTIONS 18, 19, 13, AND 24. A SIGHT WAS TAKEN ALONG MERIDIAN LINE TO TOWNSHIP 11 N, R 1E AND 1W TO 1/4 CORNER BETWEEN SECTIONS 19 & 24. TWO SOLAR OBSERVATIONS WERE MADE ON AUG. 14, 1974 TO DETERMINE THE BEARING OF THIS LINE. FROM THESE OBSERVATIONS, IT IS EVIDENT THAT THERE IS AN ANGLE POINT BETWEEN TOWNSHIPS 10 N, AND 11 N, SECTIONS 31, 6, 36, AND 1. CALCULATIONS FOR, AND READINGS OF THE SOLAR AND POLAR OBSERVATIONS ARE CONTAINED ON PAGES 1-3 OF BOOK .

USED POLAR OBSERVATION OF AUGUST 19, 1975 AND RAN A TRUE NORTH LINE FOR A DISTANCE OF 16,020.74 FEET TO A POINT OF INTERSECTION OF T10N AND T11N

CONT. PAGE 6

SET #1 CALCULATIONS

STANDARD TIME 111.9th MER. - 8:42'03"
CORR. FOR 24 HR. BASIS - +00
CORR. FOR TIME ZONE —— + 7HR. 27 MIN 32 SEC

GCT -) 16 HR. 09 MIN. 35 SEC.
SUNS d AUG 14, 1975) N 14° 37.4' +
CHANGE SINCE 0 HR.) + 12.28'
SUNS d - N 14° 49' 30"
ALTITUDE -) -56° 27' 37" + (90°) = 33° 32' 23"
REFRACTION AND PARALAX -) -(1.44)(0.86)(0.95) +0.13
= -1.05'
TRUE ALT. H -) 32° 29' 20"
LAT.) 41° 36'
AZMITH (Z) 99° 11' 28"
SUNS BEARING - S E
BEARING OF LINE N. 1° 43' 19" E

NOT USED

POLAR OBSERVATION MADE
AUGUST 19, 1975

* WILLIAMS
WARD

DATA

	HOR. ∠	TIME
1)	1° 10' 50"	11:21,30
2)	2° 21' 20"	11:25,00
3)	3° 32' 40"	11:27,50

AVE = 1° 10' 53"
LATTITUDE = 41° 36'
EAST ELONGATION
TIME: 22 h 21' 32" ST = 11:21,32 MDT
BEARING: N 1° 08' 18" E

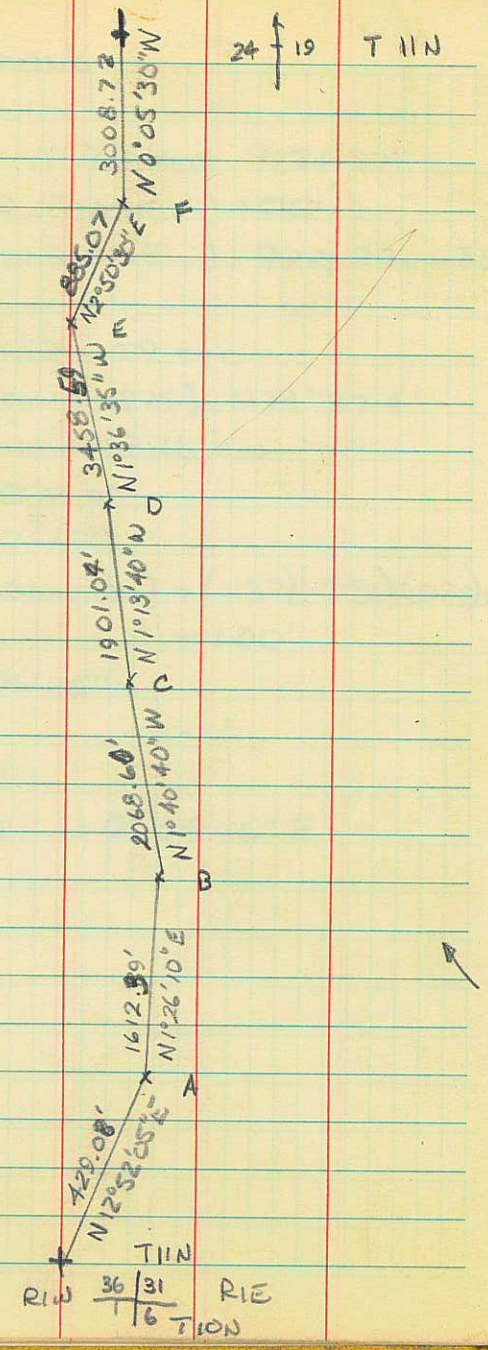
TRUE BEARING OF LINE:
N 0° 02' 35" W

SET #2 CALCULATIONS

STANDARD TIME 111.9th MER. 9:51'37"
CORR. FOR 24 HR. BASIS -) +00
CORR. FOR TIME ZONE -) 7 HRS 27 MIN 32 SEC.

GCT) 17 HRS. 19 MINS 09 SEC.
SUNS d FOR AUG. 14, 1975) N 14° 37.4'
CORR. SINCE 0 HR.) +13.16 MIN
SUNS d -) 14° 50' 34"
ALT.) 35° 07' 15"
REFRACTION AND PARALLAX) -(1.37)(0.86)(0.95)+0.12
-1.00'
TRUE ALT. 35° 06' 15"
LAT - 41° 36'
Z = 101° 51' 01"
BEARING OF LINE N 0° 54' 16" E

RANDOM LINE



NORTH BETWEEN R1W & R1E FROM CORNER OF T10N & T11N.

FOUND A RED SAND STONE 24 X 16 X 14 IN MOUND OF ROCKS MARKED WITH FOUR SETS OF SIX NOTCHES. THE STONE LAY UPRIGHT BETWEEN TWO FENCE POSTS, MARKING THE CORNER OF TOWNSHIPS 9 AND 10 NORTH, RANGES 1 EAST AND 1 NORTH.

FOUND A BRASS CAP SET ON 2" PIPE IN MOUND OF STONES ON SLBM T 10N, R 1E & 1W, 1/4 CORNER SEC.

		BEARING	SLP DIST	V. ∠	H. DIST.
BARN	A	N 12°52'05" E	429.09'	90°27'40"	429.08
RR	B	N 1°26'10" E	1612.89'	91°25'50"	1612.39
* FENCE	C	N 1°40'40" W	2068.64	90°21'30"	2068.60
FENCE	D	N 1°13'40" W	1901.07	90°18'30"	1901.04
* HW	E	N 1°36'35" W	3458.61	90°10'40"	3458.59
* HOUSE	F	N 2°50'30" E	885.07	90°07'00"	885.07
COR		N 0°05'30" W	3008.74	90°13'30"	3008.72

TOTAL DISTANCE = 13348.43' AT N 0°06'02" W.

STATION	SLOPE DIST	VERT ANGLE	HOR. DIST.
SLBM T 10N, T 11N			16020.74
	1745.60	89°57'30"	1745.60
	966.06	88°02'10"	965.49
	1579.29	92°39'10"	1577.60
	1172.83	88°29'00"	1172.42
	4226.80	91°34'10"	4225.21
	1055.18	89°06'10"	1055.05
	2639.58	90°17'10"	2639.55
CORNERS 18,19, 13,24, T 10N.	2641.61	87°53'30"	2639.82

THE TOTAL DISTANCE BETWEEN THE EXISTING BRASS MONUMENT SET ON THE CORNER 18, 19, 13, AND 24, T 10 N, ON THE SALT LAKE BASE AND MERIDIAN, AND THE CORNER OF T 10N AND T 11 N ON THE SLBM IS 16020.74. THE DISTANCE WAS PROPORTIONED, AND THE 1/4 CORNERS WERE SET AT 2670.12', AND THE SECTION CORNERS AT 5340.24'.

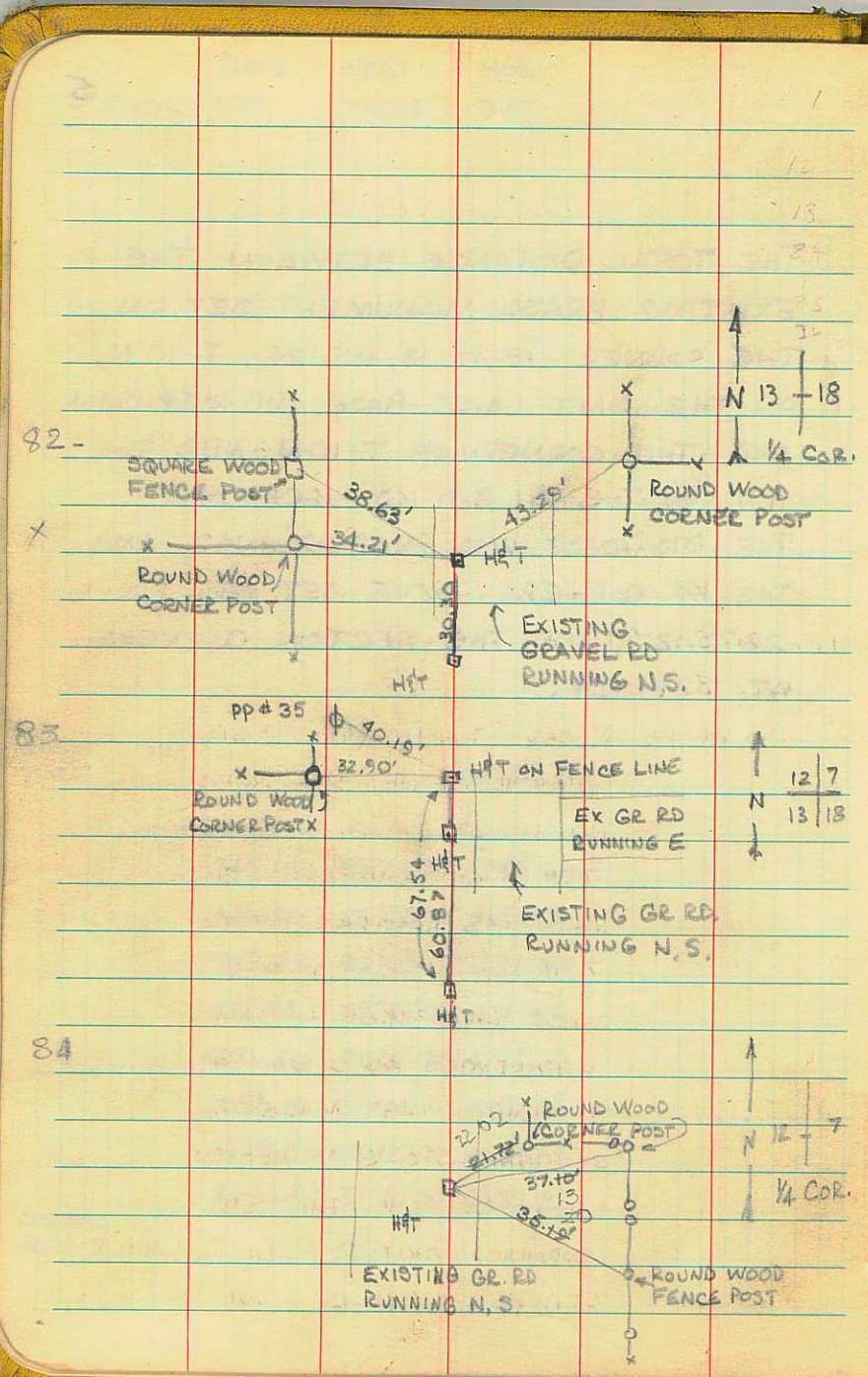
SEPT. 9, 1975

PROPORTIONED MEASURED DISTANCE AND BEGAN ESTABLISHING 1/4 SEC. AND SECTION CORNERS ALONG SALT LAKE BASE AND MERIDIAN.

BEGAN AT SECTION 18, 19, 13 AND 24 TOWNSHIP 10 NORTH WENT 2670.12 FEET NORTH SEARCH DILIGENTLY FOR OLD 1/4 COR. FOUND NO EVIDENCE OF 1/4 COR SET TEMP. HUB AND TACK. REFERENCED THE 1/4 CORNER AS SHOWN AT LEFT IN DIAGRAM.

5340.24 ft. SEARCHED DILIGENTLY FOR THE ORIGINAL STONE, BUT COULD FIND NO TRACE OF IT. A HUB AND A TACK WAS TEMPORARILY SET TO MARK THE LOCATION OF CORNERS 7, 18, 12, AND 13, ON THE SALT LAKE BASE MERIDIAN. HUB WAS REFERENCED AS SHOWN AT LEFT

2670.12 ft A SEARCH WAS MADE FOR THE ORIGINAL STONE MONUMENT, BUT NO TRACE COULD BE FOUND. SET A TEMPORARY POINT TO MARK THE 1/4 COR. BETWEEN SECTIONS 7 AND 12, T

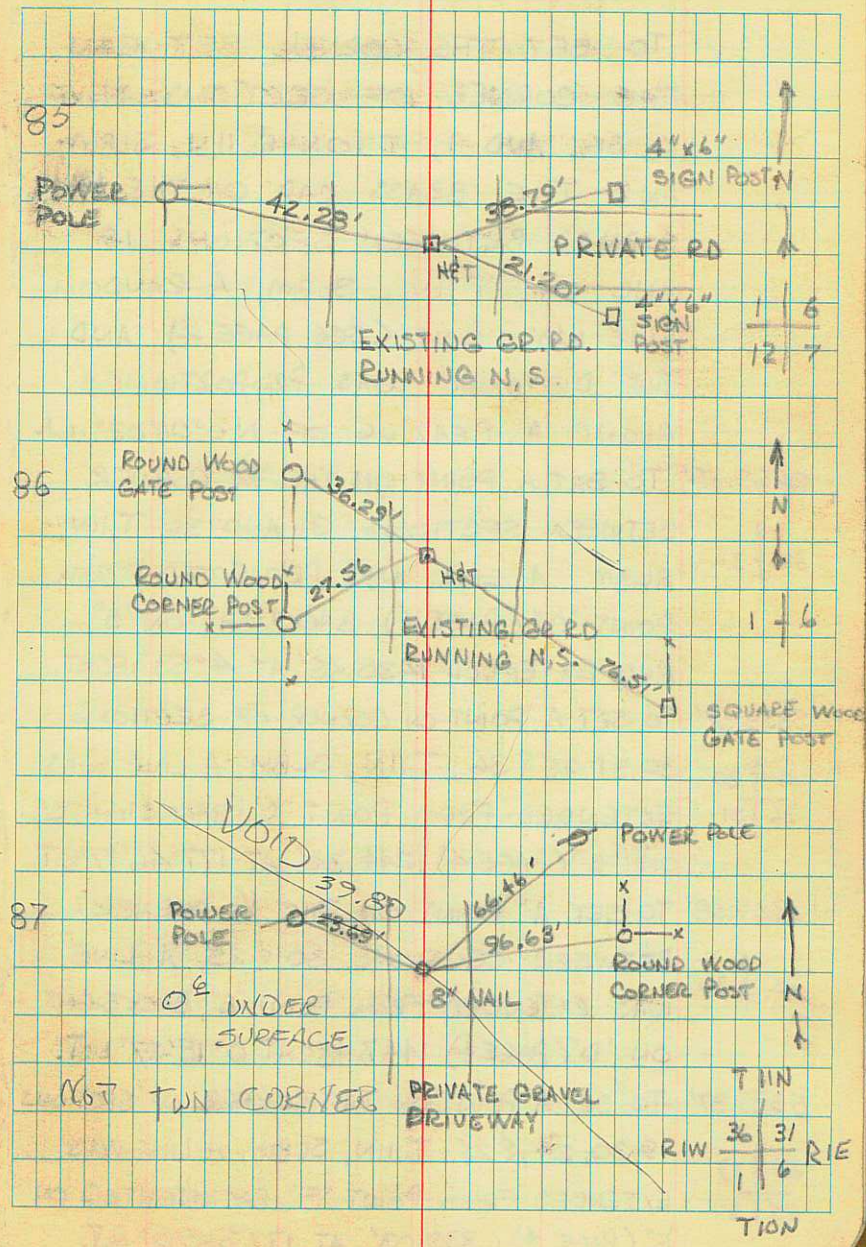


ION, SLBM. THE TEMPORARY POINT WAS REFERENCED TO FACILITATE THE FUTURE PLACEMENT OF A BRASS MONUMENT.

5340.24' A DILIGENT BUT UNFRUITFULL SEARCH WAS MADE FOR THE ORIGINAL STONE MONUMENT ON SECTION CORNERS 6, 7, 1, AND 12. A TEMPORY POINT WAS SET AND REFERENCED AS SHOWN IN THE DIAGRAM.

2670.12' NO TRACE WAS FOUND OF THE ORIGINAL STONE. A TEMPORARY POINT WAS SET TO MARK THE LOCATION OF THE 1/4 CORNER BETWEEN SECTIONS 1 AND 6, T 10 N, SLBM. THE POINT WAS REFERENCED AS SHOWN IN THE DIAGRAM.

5340.24' TO SET THE CORNER BETWEEN T 10 N AND 11 N, THE SECTION CORNER BETWEEN SECTIONS 34, 3, 33, AND 4, R 1 W WAS FOUND, AND A POINT WAS SET 5.28 ft. SOUTH ON THE TANGENT LINE. A POINT WAS SET 5.28 ft SOUTH OF THE CORNER BETWEEN SECTIONS 34, 3, 33, AND 4, R 1 E. THE TANGENT LINE INTERSECTED THE SALT LAKE BASE AND MERIDIAN LINE, AND A POINT WAS SET AND REFERENCED TO MARK CORNERS 31, 6, 36, AND 1, T 10 N AND 11 N, R 1 W AND 1 E.



2669.69' TO SET THE CORNER BETWEEN THE CORNER OF SECTIONS 31, 6, 36, AND 1, T 10N & 11N, SLBM; AND THE BRASS CAP ON THE 1/4 CORNER BETWEEN SECTIONS 19 AND 24, T 11N, SLBM, A RANDOM LINE WAS RUN (SEE PAGE 4), AND THE DISTANCE WAS PROPORTIONED ALONG A BEARING OF N 0°06'02" W.

2669.69' TO SET A POINT ON THE 1/4 CORNER BETWEEN SECTIONS 31 AND 36, T 11N, SLBM, A LINE WAS PROJECTED FROM POINT "C" (PAGE 4), BACKSIGHT ON "B", AND EXTENDED 1430.45' AT 4°53'15" RT.

36 ↑ 31

5339.37' TO SET A POINT ON CORNER OF SECTIONS 30, 31, 25 & 36, T 11N, SLBM, A LINE WAS EXTENDED FROM POINT "C", BACKSIGHTED ON "B" (PAGE 4) 1244.36' AT 177°46'17" R.T.

25 ↑ 30
36 | 31

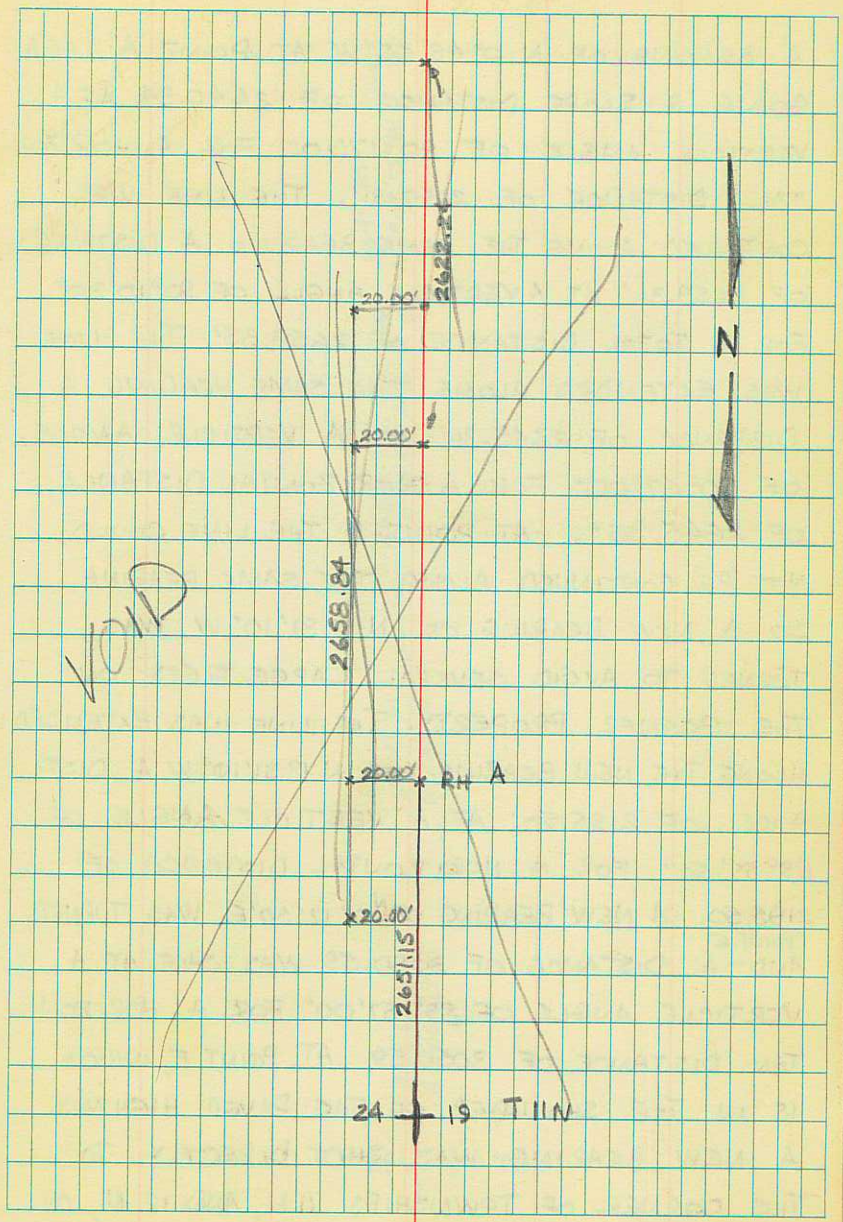
2669.69' TO SET A POINT ON THE 1/4 CORNER BETWEEN SECTIONS 30 & 25, A LINE WAS EXTENDED FROM POINT "E", BACKSIGHT ON "D" (PAGE 4) 1447.48' AT 0°18'27" L.T.

25 ↑ 30

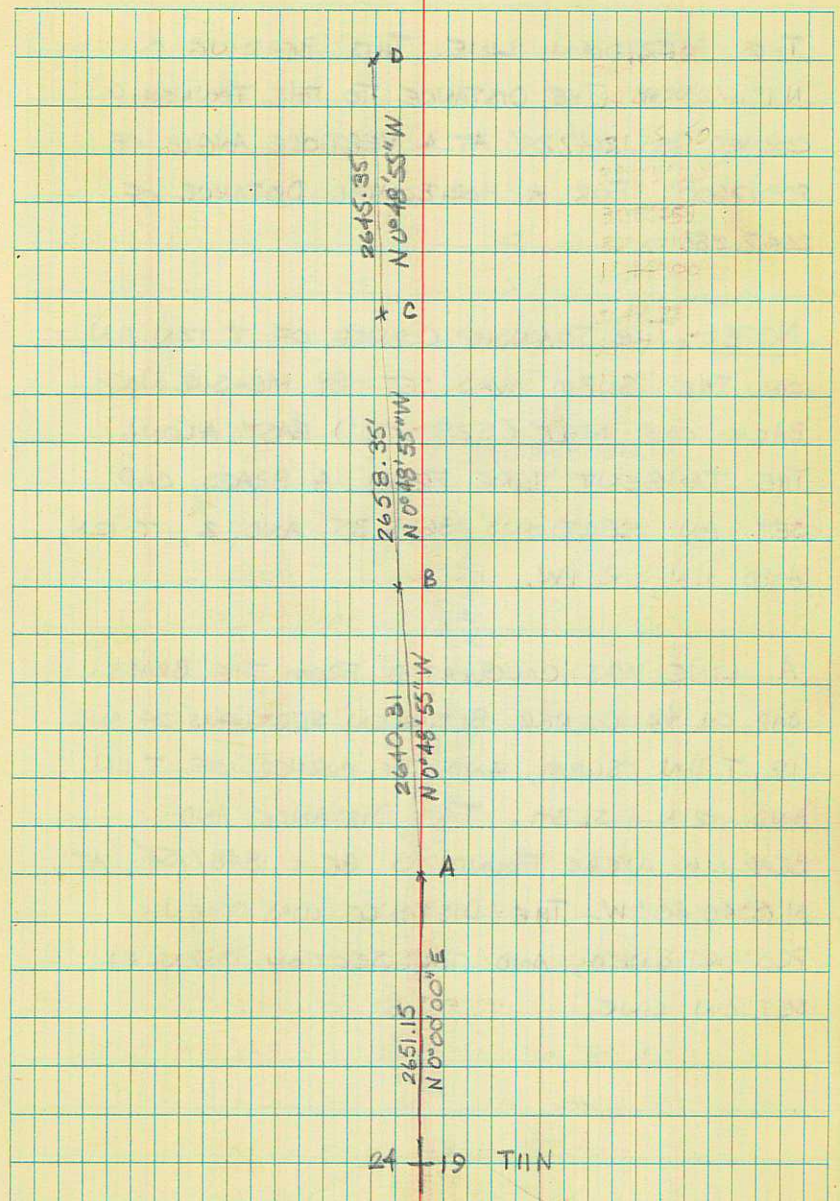
5339.37' TO SET A POINT ON THE CORNER OF SECTIONS 19, 30, 24, & 25, T 11N, SLBM, A LINE WAS EXTENDED FROM POINT "F", BACKSIGHTED ON "E" (PAGE 4), 339.03' AT 177°08'02" R.T.

24 ↑ 19
25 | 30

THE INSTRUMENT WAS SET UP ON THE 1/4 CORNER BETWEEN SECTION 19, AND 24, T 11N SLBM. FROM THE POLAR OBSERVATION DATA ON PAGE 76, A LINE WAS PROJECTED DUE NORTH TO THE INTERSECTION OF THE TANGENT LINE AT T 12 N. THE FOLLOWING DISTANCES WERE MEASURED SO THAT THE ENTIRE DISTANCE COULD BE PROPORTIONED, AND THE CORNERS SET. SLP DIST = 2651.24'; V∠ = 90°29'00"; HOR. DIST = 2651.15'. THE PROJECTED LINE RUNNING DUE NORTH ENCOUNTERED SEVERAL LARGE TREES, SO A 20.00' OFFSET WAS MADE BY BACKSIGHTING ON A POINT 20.00 ft WEST OF THE NORTH LINE, BEING 1200' AWAY, AND GOING AHEAD ON A LINE PARALLEL TO, BUT 20.00' WEST OF THE MERIDIAN LINE. THE OFFSET LINE WAS EXTENDED 2658.88' AT A VERT. ANGLE OF 90°17'40" FOR A TOTAL DISTANCE OF 2658.84'. FROM THIS POINT WE MOVED BACK TO THE MERIDIAN LINE, AND SHOT AHEAD THROUGH OUR FORSIGHT 800' AWAY. THE MERIDIAN LINE WAS EXTENDED 2622.25' AT A VERT ANGLE OF 90°11'00" FOR A TOTAL DISTANCE OF 2622.24'. THE NORTH-LINE WAS ABANDONED BECAUSE OF ITS DEVIATION FROM THE MERIDIAN ROAD. A RANDOM LINE WAS INITIATED BY TURNING TO



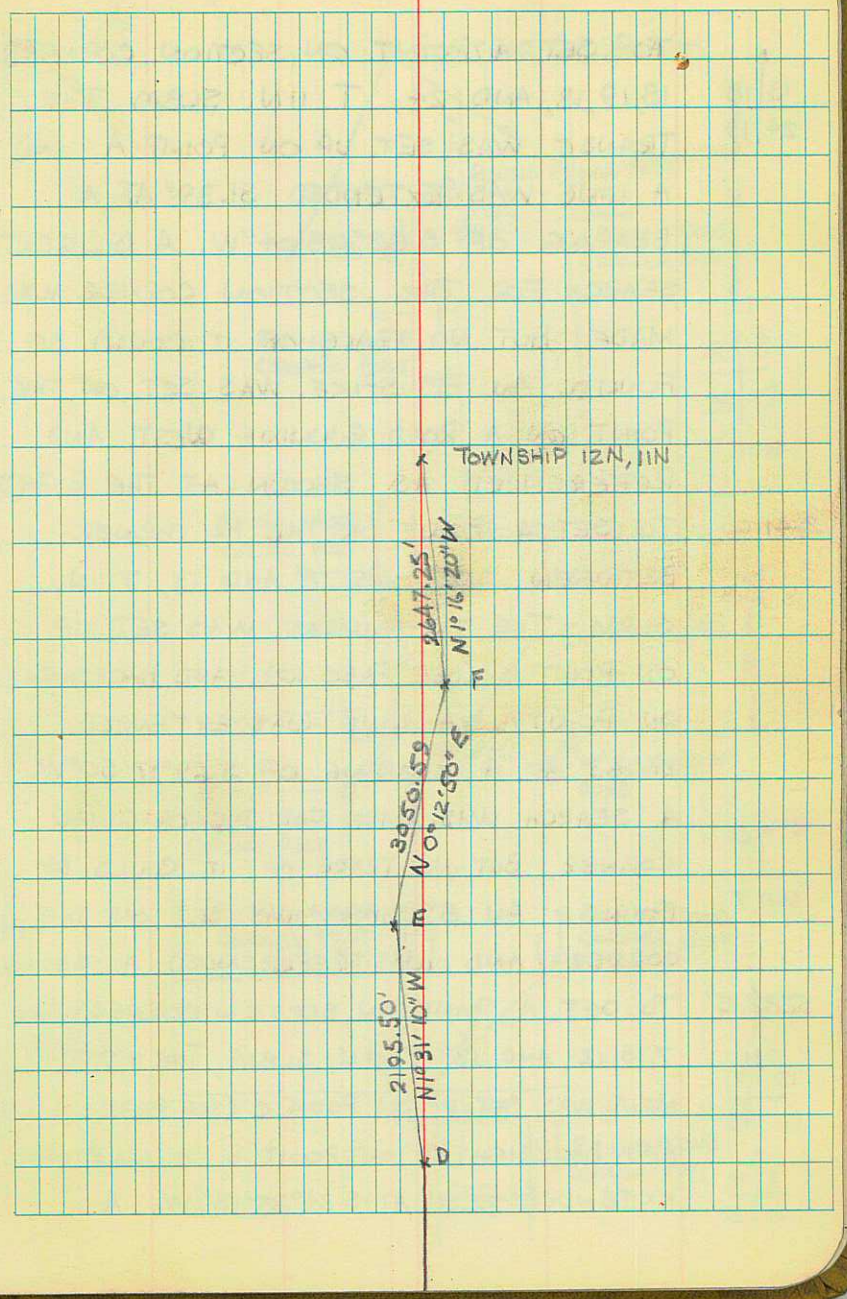
A BEARING OF N 0°48'55"W AT POINT "A", AND GOING A SLOPE DISTANCE OF 2640.34 AT A VERTICLE ANGLE OF 90°17'10" FOR A HORIZONTAL DISTANCE OF 2640.31'. THE LINE WAS CONTINUED ALONG THE SAME BEARING A DISTANCE OF 2658.36' AT A VERTICLE ANGLE OF 90°10'30" FOR A TOTAL DISTANCE OF 2658.35'. THE LINE WAS EXTENDED ALONG THE SAME HEADING A DISTANCE OF 2645.36' AT A VERTICLE ANGLE OF 90°07'00" FOR A HORIZONTAL DISTANCE OF 2645.35'. AT POINT D THE LINE COULD NOT BE CONTINUED ALONG THE SAME BEARING, SO A NEW BEARING OF N 1°31'10" W WAS TURNED TO AVOID SEVERAL LARGE TREES ON THE GOSNER PROPERTY. THE LINE WAS EXTENDED ALONG THE NEW BEARING OF N 1°31'10" W A DISTANCE OF 2195.50' AT A VERTICLE ANGLE OF 89°55'50" FOR A HORIZONTAL DISTANCE OF 2195.50. A NEW BEARING OF N 0°12'50"E WAS TURNED, (POINT E) AND A DISTANCE OF 3050.59 WAS SHOT AT A VERTICLE ANGLE OF 89°57'00" FOR A HORIZONTAL DISTANCE OF 3050.59. AT POINT F, WHICH IS IN THE SHOULDER OF THE PAVED HIGHWAY, A NEW BEARING WAS SHOT DIRECTLY TO THE CORNER OF TOWNSHIPS 11 N, AND 12 N, ON



THE MERIDIAN LINE. THIS BEARING IS N 1°16'20" W. THE DISTANCE TO THE TOWNSHIP CORNER IS 2647.28' AT A VERTICLE ANGLE OF 90°17'00", FOR A HORIZONTAL DISTANCE OF 2647.25'.

NOTE: THE TOWNSHIP CORNER OF T 12N, 11N, ON THE SLBM WAS SET BY MEASURING BACK ONE MILE (5280.00') EAST ALONG THE TANGENT LINE FROM A BRASS CAP SET ON SECTIONS 36, 1, 35, AND 2, T 12N, AND 11N, R 1W.

A LINE WAS CALCULATED FROM THE BRASS CAP ON 1/4 CORNER BETWEEN SECTIONS 24 AND 19, T 11N, SLBM, AND THE CORNER OF T 11N, AND 12N, SLBM. THE DISTANCE AND BEARING WERE FOUND TO BE: 18487.54', AT N 0°40'40" W. THE DISTANCE WAS THEN PROPORTIONED, AND THE SECTION CORNERS SET ON LINE.



13 | 18
24 | 19

TO SET A POINT ON SECTION CORNERS 18, 19, 13, AND 24, T 11N, SLBM, THE TRANSIT WAS SET UP ON POINT A, AND A LINE WAS EXTENDED 31.39' AT A BEARING OF S 88°08'04"W. A DILIGENT SEARCH FOR THE SECTION CORNER WAS MADE, BUT NO TRACE OF IT COULD BE FOUND. AN 8" SPIKE WAS SET ON THE POINT ON A ROAD RUNNING WEST, AND REFERENCED AS SHOWN AT THE RIGHT.

2641.08'

13 | 18

TO SET A POINT ON THE 1/4 CORNER BETWEEN SECTIONS 18 AND 13, T 11N, SLBM, THE INSTRUMENT WAS SET UP ON POINT B (SEE PAGE 10), AND BACKSIGHTED ON POINT A. A LINE WAS EXTENDED 26.63' AT A BEARING OF S 69°17'50"W. A SEARCH WAS MADE FOR THE ORIGINAL CORNER, BUT NO TRACE OF IT COULD BE FOUND. AN 8" SPIKE WAS SET ON THE CORNER, AND WAS REFERENCED AS SHOWN.

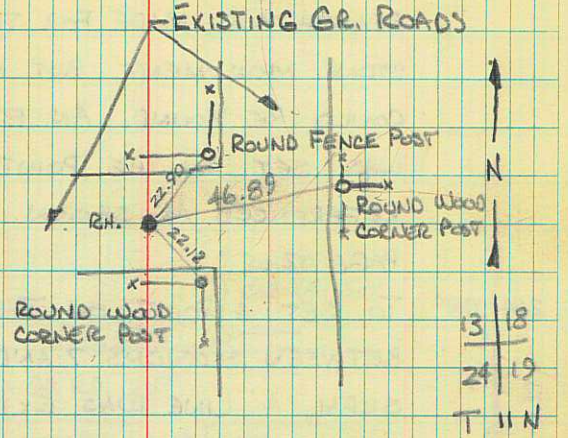
5282.15'

12 | 7
13 | 18

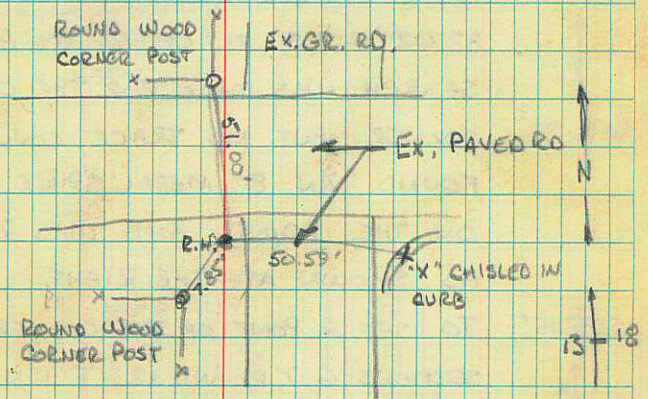
TO SET A POINT ON SECTION CORNERS 7, 18, 12, AND 13, T 11N, SLBM, THE INSTRUMENT WAS SET UP ON POINT C (SEE PAGE 10), AND BACKSIGHTED ON POINT B. A LINE WAS EXTENDED 32.31' AT S 34°35'18" W. A

9340-100

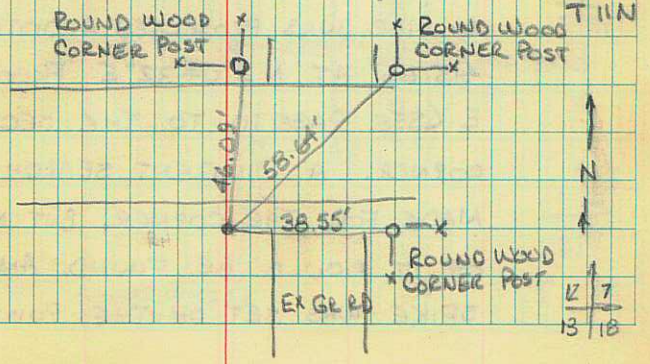
88



89



90



2641.08
5282.15

SEARCH WAS MADE FOR THE ORIGINAL STONE MONUMENT, BUT NO TRACE OF IT COULD BE FOUND. AN 8" METAL SPIKE WAS SET ON THE POINT, AND WAS REFERENCED AS SHOWN AT BOTTOM OF PAGE 12.

2641.08'

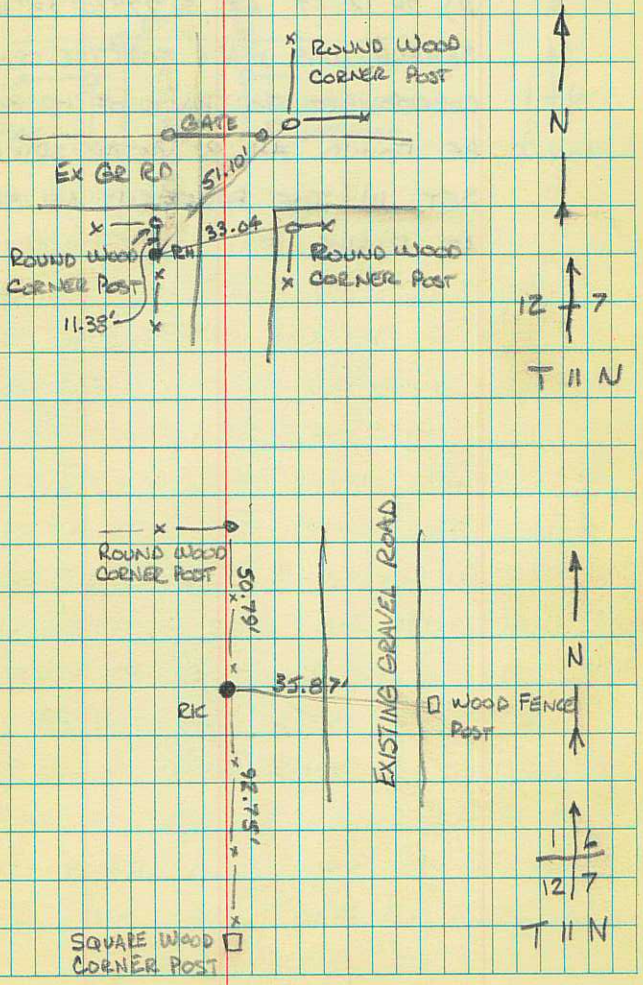
12 | 7

TO SET A POINT ON THE 1/4 CORNER BETWEEN SECTIONS 7 AND 12, T 11N, SLBM, A LINE WAS EXTENDED FROM POINT D (SEE PAGE 10) A DISTANCE OF 33.02' AT S 21° 08'54" W. A DILIGENT SEARCH WAS MADE FOR THE ORIGINAL CORNER, BUT NO TRACE COULD BE FOUND. AN 8" METAL SPIKE WAS SET ON THE POINT, AND WAS REFERENCED AS SHOWN AT THE RIGHT.

5282.15'

1 | 6
12 | 7

TO SET A POINT ON THE CORNER OF SECTIONS 6, 7, 1, AND 12, T 11N, SLBM, A LINE WAS PROJECTED A DISTANCE OF 415.65' AT N 2°04'32"E FROM POINT E (SEE PAGE 11) TO THE SECTION CORNER. A DILIGENT SEARCH WAS MADE FOR THE CORNER, BUT NO TRACE OF IT COULD BE FOUND. AN 8" METAL SPIKE WAS SET ON THE POINT, AND



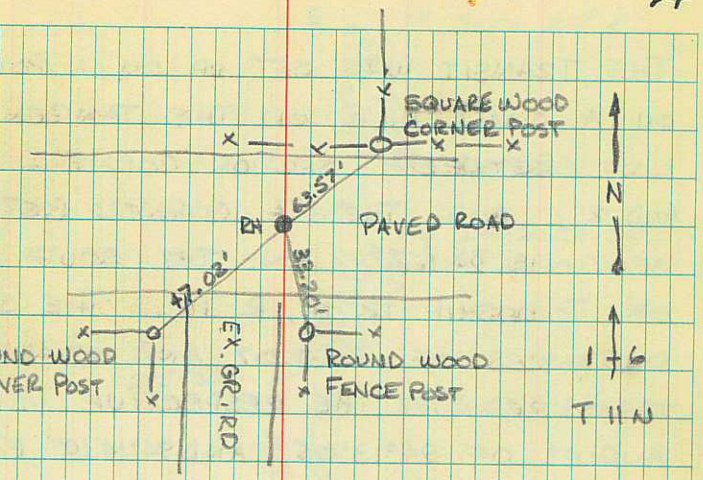
REFERENCED AS SHOWN ON PAGE 13.

2641.08'

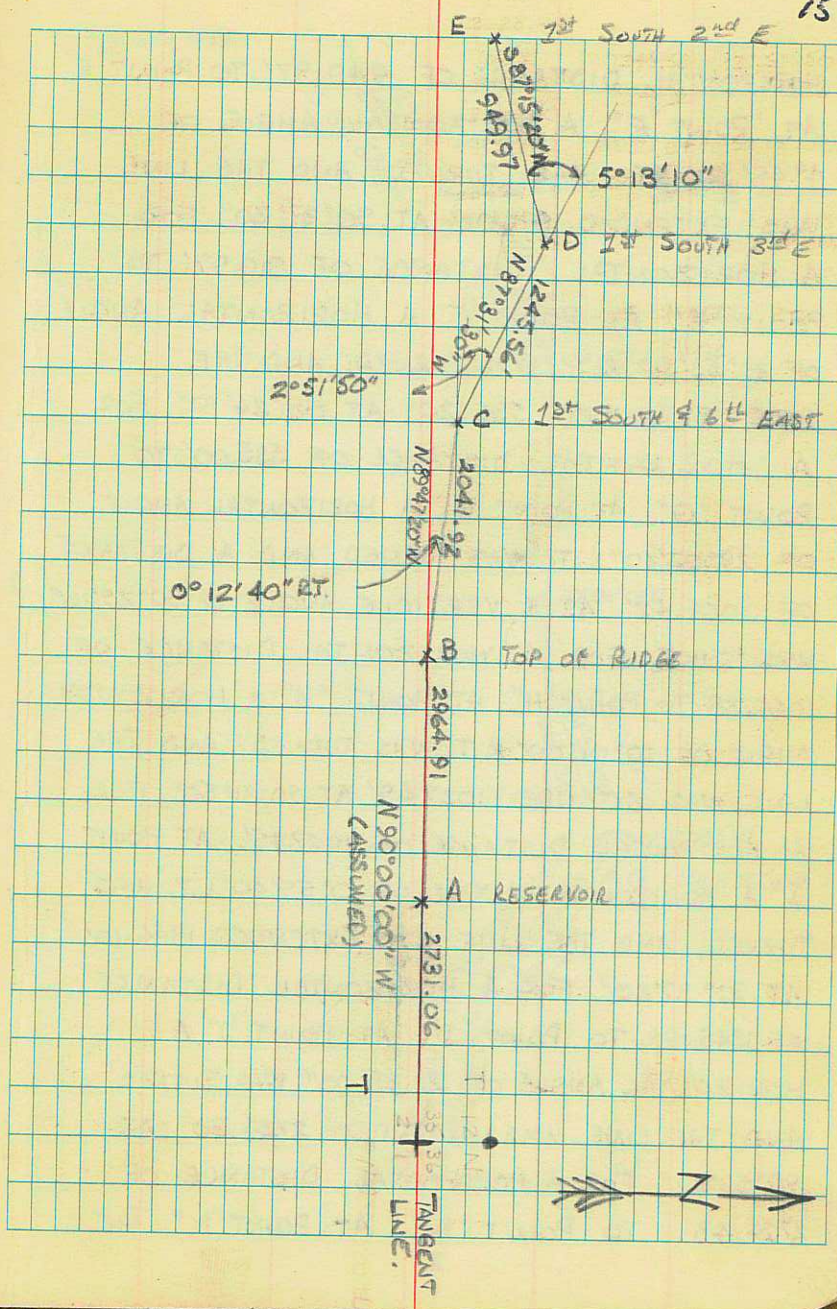
1 ↑ 6

TO SET A POINT ON THE 1/4 CORNER BETWEEN SECTION 6 AND 1, A LINE WAS EXTENDED FROM POINT F (SEE PAGE 11) 28.14 FT. AT S 77°10'23" W. A SEARCH WAS MADE FOR THE ORIGINAL CORNER, BUT NO TRACE OF IT COULD BE FOUND. AN 8" METAL SPIKE WAS SET IN THE PAVEMENT AS SHOWN AT RIGHT.

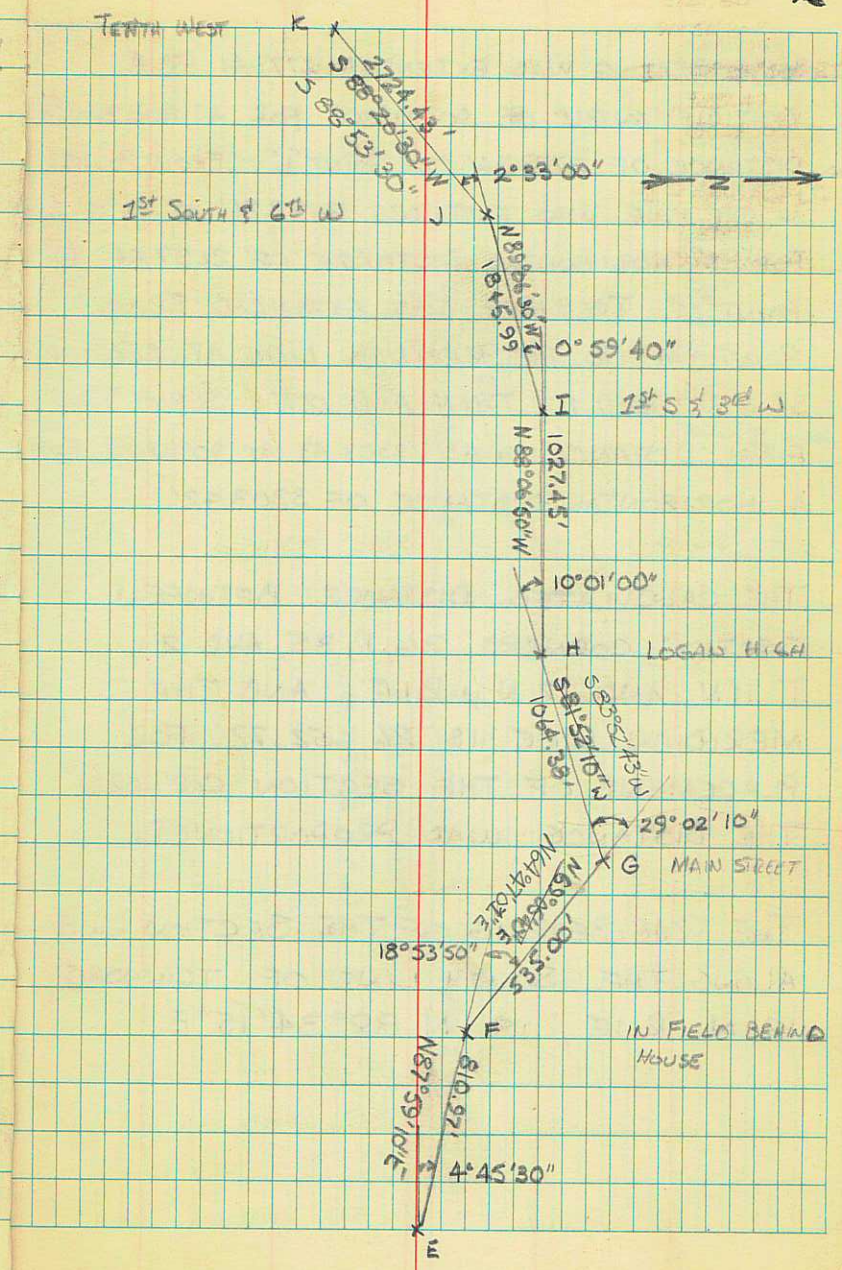
93



THE TRANSIT WAS SET UP ON A POINT ON A SMALL HILL, ON THE TANGENT LINE BETWEEN SECTION CORNERS 36, 1, 35, AND 2, AND THE 1/4 CORNER BETWEEN SECTIONS 35, & 2, ON THE SOUTH LINE OF TOWNSHIP 12 N, R 1E. THE SLOPE DISTANCES OF 2631.07 AND 107.41 WERE MEASURED AT THE RESPECTIVE VERTICLE ANGLES OF 94°13'05" AND 94°14'10", FOR A TOTAL HORIZONAL DISTANCE OF 2731.06. THE TANGENT LINE WAS EXTENDED WEST FROM POINT "A" A DISTANCE OF 2969.40' AT A VERTICLE ANGLE OF 93°09'10" FOR A HORIZONTAL DISTANCE OF 2964.91'. TO POINT B. AT POINT B A HORIZONTAL ANGLE OF 0°12'40" R.T. WAS TURNED SO THAT THE POINT COULD BE PUT ON 1st SOUTH STREET IN LOGAN. A DISTANCE OF 2045.11' AT 93°12'00" WAS SHOT FOR A HORIZONTAL DISTANCE OF 2041.92' TO POINT C. AT POINT C, AN ANGLE OF 2°51'50" RT WAS TURNED, AND THE LINE WAS EXTENDED 1245.58' AT 90°20'30" FOR A HORIZONAL DISTANCE OF 1245.56', TO POINT D. AT POINT "D" A HORIZONTAL ANGLE OF 5°13'10" L.T. WAS TURNED, AND THE LINE WAS EXTENTENDED 950.04' AT 90°43'00" FOR A



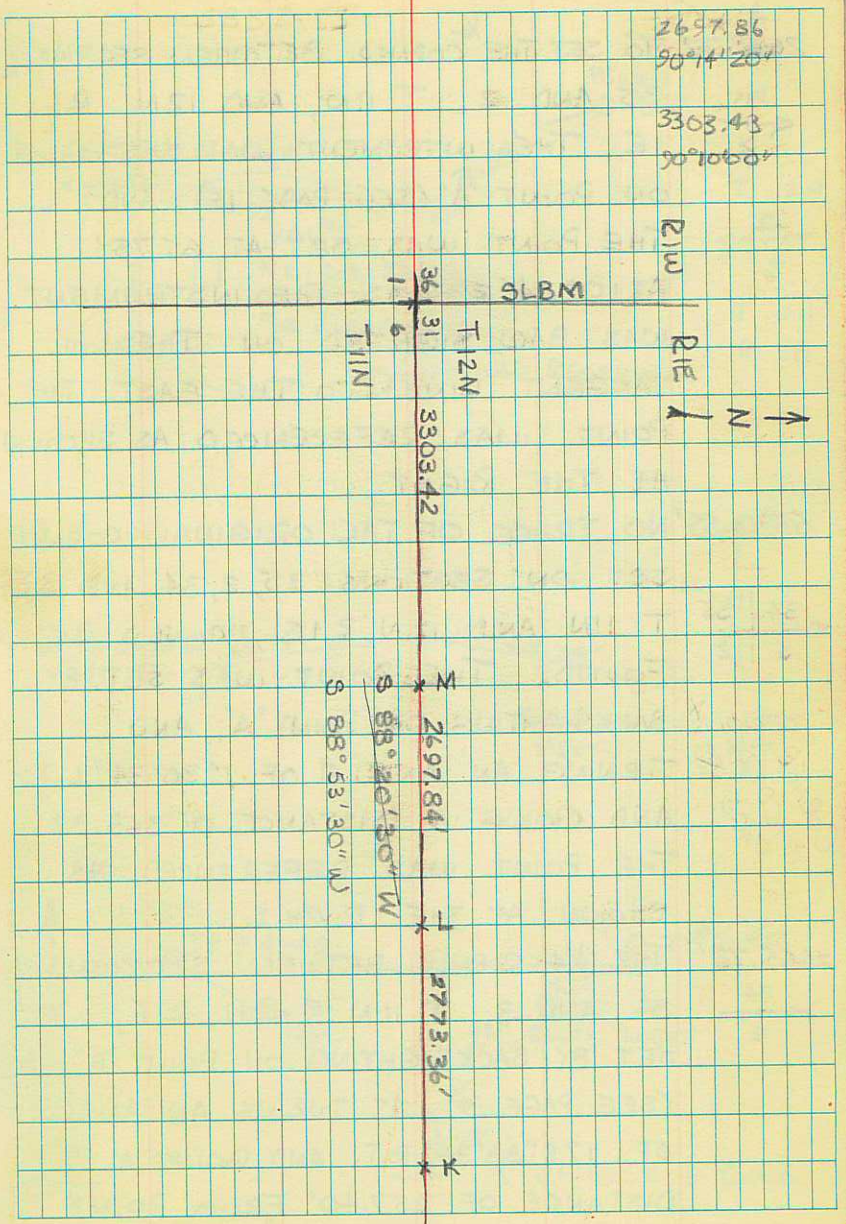
HORIZONTAL DISTANCE OF 949.97' TO POINT "E". AT POINT "E", A HORIZONTAL ANGLE OF 4°45'30" RT. WAS TURNED, AND THE LINE WAS EXTENDED 811.02' AT 90°37'30" FOR A HORIZONTAL DISTANCE OF 810.97' TO POINT 'F'. AT POINT 'F' A HORIZONTAL ANGLE OF 18°53'50" R.T. WAS TURNED, AND THE LINE EXTENDED 535.20' AT 88°26'10" FOR A HORIZONTAL DISTANCE OF 535.00' TO POINT "G". AT POINT "G" A HORIZONTAL ANGLE OF 29°02'10" L.T. WAS TURNED, AND A DISTANCE OF 1064.42' AT A VERTICLE ANGLE OF 90°29'16" WAS SHOT, FOR A HORIZONTAL DISTANCE OF 1064.38'. TO POINT "H". AT POINT "H" A HORIZONTAL ANGLE OF 10°01'00" R.T. WAS TURNED, AND THE LINE WAS EXTENDED 1027.49' AT 90°31'50", FOR A HORIZONTAL DISTANCE OF 1027.45'. AT POINT "I" A HORIZONTAL ANGLE OF 0°59'40" L.T. WAS TURNED, AND THE LINE WAS EXTENDED 1846.10' AT 90°37'20" FOR A HORIZONTAL DISTANCE OF 1845.99 TO POINT "J". AT POINT "J" A HORIZONTAL ANGLE OF 2°33'00" WAS TURNED, AND THE LINE WAS EXTENDED 2724.80' AT 90°56'30" FOR A HORIZONTAL DISTANCE OF 2724.43 TO POINT "K". AT POINT "K", THE



SAME BEARING WAS EXTENDED 2773.41 AT A VERTICLE ANGLE OF 90°21'30" FOR A HORIZONTAL DISTANCE OF 2773.36' TO POINT "L". FROM POINT "L" THE LINE WAS EXTENDED 2697.86' AT 90°14'20" FOR A HORIZONTAL DISTANCE OF 2697.84' TO POINT "M". THE LINE WAS EXTENDED FROM POINT "M" TO THE MERIDIAN LINE AT SECTIONS 31, 6, 36, AND 1, T 11N AND 12N, SLBM. THE FINAL DISTANCE WAS 3303.43 AT 90°10'00" FOR A HORIZONTAL DISTANCE OF 3303.42'.

THE CALCULATED DISTANCE BETWEEN SECTION CORNERS 36, 1, 35, AND 2, T 11N AND 12N, R1E, AND THE MERIDIAN LINE IS 26,652.77'. FOR PLACEMENT OF THE SECTION CORNERS, THE DISTANCE WAS PROPORTIONED.

THE TRUE BEARING OF THE SECTION LINE ALONG THE SOUTH LINE OF TOWNSHIP 12N, R1E, IS N 89°34'15"E.



2665.72 To set the 1/4 corner between sections 35 and 2, T 11N, and 12N, R 1E, the instrument was set up on Point "A" (see page 15), and the point was set at 65.75' at 10°24'33" L.T. as the instrument was backsighted on the tangent line to the east. The point was referenced as shown at the right.

35 / 2

5330.55' No trace of the original corner set on sections 35, 2, 34, and 3, T 11N and 12N, R 1E, could be found. The point was set by backsighting on Point "A" (P. 15), and turning an angle of 1°30'34" L.T., and going a distance of 363.32'. The point was referenced as shown at the right.

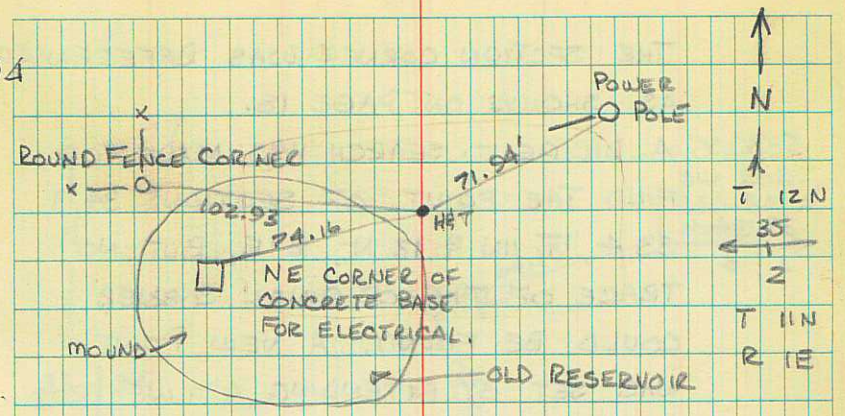
34 | 35
3 | 2

Corner moved. 5/4 AD Page

2665.72' The 1/4 corner between sections 34, and 3, T 11N & 12N, R1E, was set by backsighting on Point "B" (see page 15), at turing an angle of 179°38'34" R.T., and going a distance of 257.40' from Point "C"

34 / 3

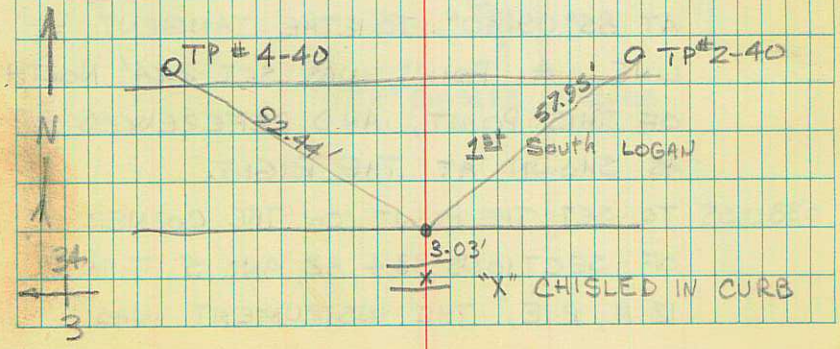
94



95



96



THE SECTION CORNER WAS REFERENCED AS SHOWN ON PAGE 18.

5330.55' A DILIGENT SEARCH WAS MADE TO FIND THE POINT OF SECTIONS 34, 3, 33, 4, T 11N & 12 N, R 1E, BUT NO TRACE OF THE ORIGINAL CORNER COULD BE FOUND. A NEW POINT WAS SET BY EXTENDING A LINE FROM POINT "F" (SEE PAGE 16), BACK SIGHT ON POINT "E", 93.03' AT 22°46'31" R.T. THE POINT WAS REFERENCED AS SHOWN AT THE RIGHT.

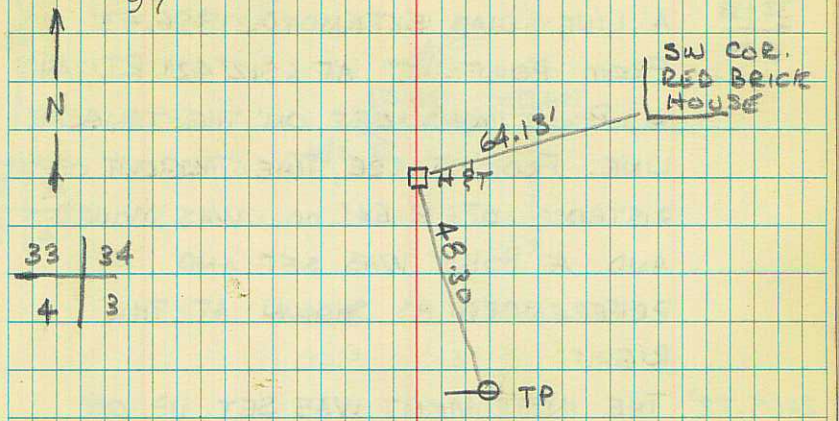
33 | 34
4 | 3

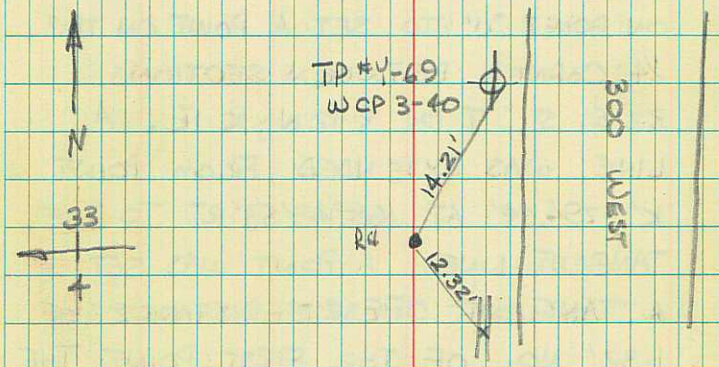
2665.72' TO SET THE POINT AT THE 1/4 CORNER BETWEEN SECTIONS 33 AND 4, T 11N & 12 N, R 1E, THE INSTRUMENT WAS SET UP ON POINT "I", AND BACKSIGHTED ON POINT "H" (SEE PAGE 16). A LINE WAS THEN EXTENDED 193.20' AT 85°09'40" TO THE TANGENT LINE. A POINT WAS SET 2.64' NORTH OF THIS POINT, AND REFERENCED AS SHOWN AT THE RIGHT.

33
4

5330.55' TO SET THE POINT ON THE CORNER OF SECTIONS 33, 4, 32, AND 5, T 11N & 12 N, R 1E, THE INSTRUMENT WAS

97





"X" CHISLED IN CURB

98

1.43

99

SET UP ON POINT "K" (SEE PAGE 16), AND BACKSIGHTED ON POINT "J".

32 | 33
5 | 4

A LINE WAS EXTENDED 1896.43' FROM POINT "K" AT 6°12'42" R.T., AND A POINT WAS SET ON THE TANGENT LINE. FROM THERE, THE TANGENT OFFSET DISTANCE OF 2.64' NO. WAS MOVED, AND A POINT WAS SET AND REFERENCED AS SHOWN AT THE RIGHT.

2665.72' THE INSTRUMENT WAS SET UP ON POINT "K" (SEE PAGE 16) AND BACKSIGHTED

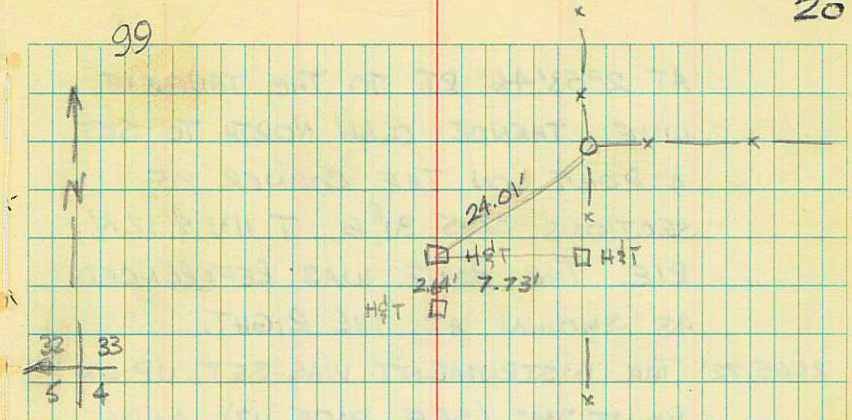
32
5

ON POINT "J" TO SET A POINT ON THE 1/4 CORNER BETWEEN SECTIONS 32 & 5, T 11N & 12N, R 1E. A LINE WAS EXTENDED FROM POINT "K" 794.54' AT 168°49'53" R.T. TO THE TANGENT LINE. A POINT WAS SET A TANGENT OFFSET DISTANCE OF 1.32' NO. OF THE FIRST POINT. THE CORNER WAS REFERENCED AS SHOWN AT THE RIGHT.

5330.55 THE INSTRUMENT WAS SET UP ON POINT "M" (SEE PAGE 17), AND BACKSIGHTED

31 | 32
6 | 5

ON "P". A LINE WAS EXTENDED 2029.53'



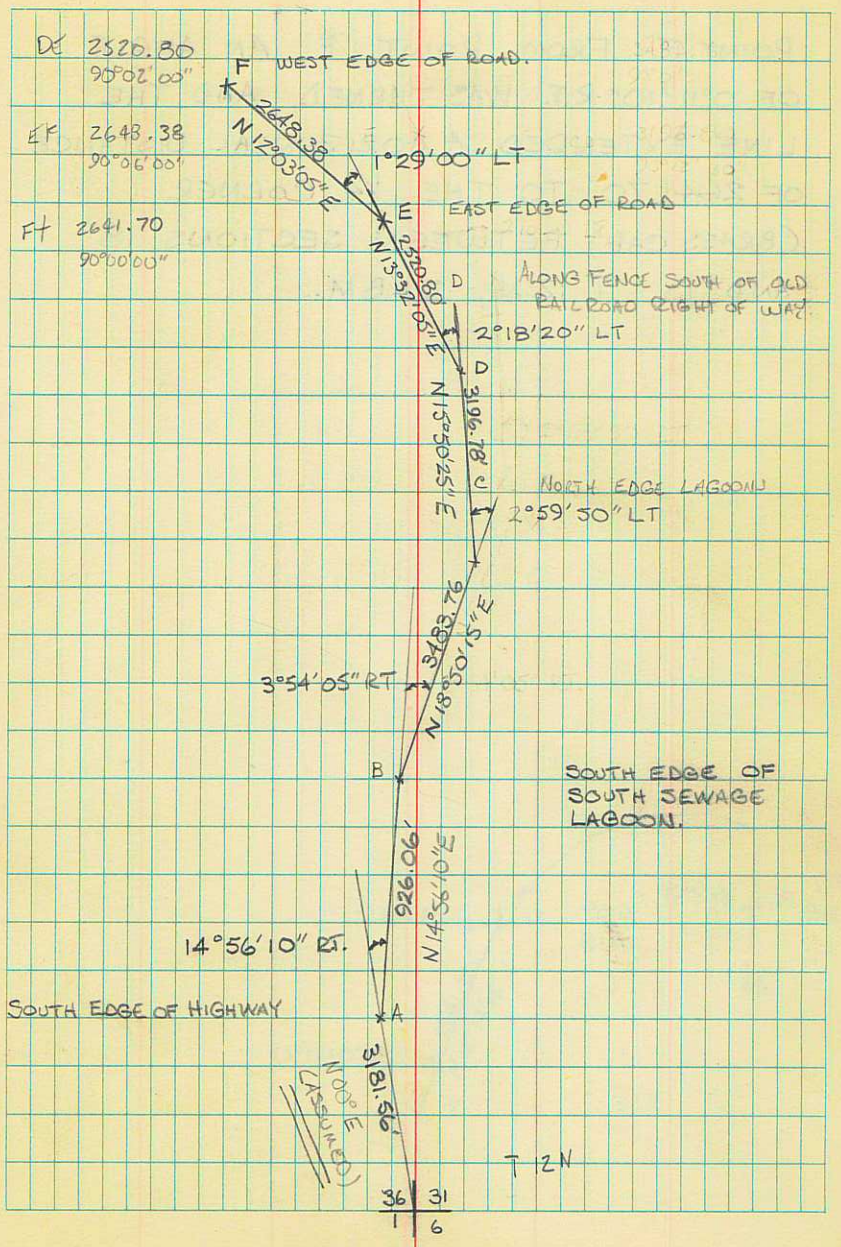
9340-10

AT 2°53'46" RT. TO THE TANGENT LINE, THENCE 0.66' NORTH TO SET A POINT ON THE CORNER OF SECTIONS 32, 5, 31 & 6, T 11N & 12N, R1E. THE POINT WAS REFERENCED AS SHOWN AT THE RIGHT.

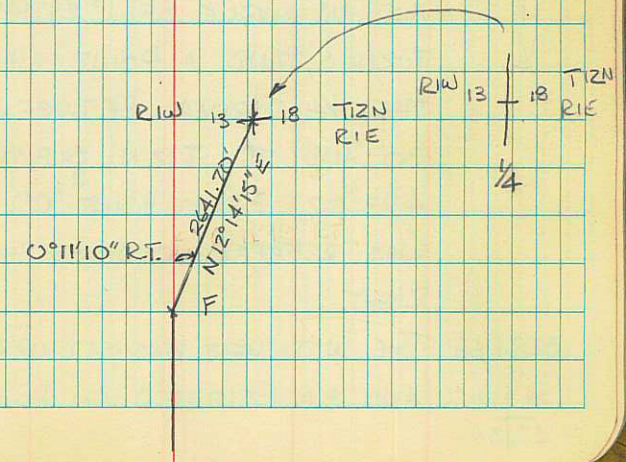
2665.72' THE INSTRUMENT WAS SET UP ON POINT "M" (SEE PAGE 17), AND BACKSIGHTED ON THE CORNER OF T 11N & 12N, AND THE SLBM. TO SET A POINT ON THE 1/4 CORNER BETWEEN SECTIONS 31 AND 6, T 11N & 12N, R1E, A LINE WAS EXTENDED FROM POINT "M" A DISTANCE OF 639.90' AT 4°35'35" L.T. THE POINT WAS REFERENCED AS SHOWN AT THE RIGHT.

5330.55 CHECK IN TO CORNER OF SECTIONS 31, 6, 36, AND 1, T 11N AND 12N, SLBM, WHICH HAD BEEN PREVIOUSLY SET.

A RANDOM LINE WAS INITIATED AT THE CORNER OF SECTIONS 31, 6, 36, AND 1, T 11N & 12N, SLBM, AND TAKEN IN A NORTHERLY DIRECTION, A DISTANCE OF 3181.61' AT A VERTICLE ANGLE OF 89°41'30", FOR A HORIZONTAL DISTANCE OF 3181.56' TO POINT "A." FROM POINT "A" A LINE WAS BACK SIGHTED ON THE SECTION CORNER, AND AN ANGLE OF 14°56'10" R.T. WAS TURNED. A LINE WAS THEN EXTENDED 926.08' AT A VERTICLE ANGLE OF 89°37'00" FOR A HORIZONTAL DISTANCE OF 926.06' TO POINT "B." AT POINT "B" AN ANGLE OF 3°54'05" RT WAS TURNED, AND A LINE EXTENDED 3483.76 FT. HORIZONTAL DISTANCE TO POINT "C". FROM POINT "C" AN ANGLE OF 2°59'50" LT WAS TURNED, AND A LINE EXTENDED 3196.80' AT 90°12'30" FOR A HORIZONTAL DISTANCE OF 3196.78' TO POINT "D". FROM POINT "D" AN ANGLE OF 2°18'20" LT WAS TURNED, AND A LINE EXTENDED 2520.80 HOR. DIST. TO POINT "E". FROM POINT "E" A LINE WAS EXTENDED AT AN ANGLE OF 1°29'00" LT, A DISTANCE OF 2648.38 AT 90°06'00", FOR A HORIZONTAL DISTANCE OF 2648.38' TO



POINT "F". FROM POINT "F" AN ANGLE OF 0°11'10" R.T. WAS TURNED, AND THE LINE EXTENDED A HORIZONTAL DISTANCE OF 2641.70' TO THE 1/4 CORNER (BRASS CAP) BETWEEN SECTIONS 18 AND 13, T 12 N, SLBM.



2642.33 THE INSTRUMENT WAS SET UP ON POINT "A" (SEE PAGE 22), AND BACK SIGHTED ON THE CORNER OF SECTIONS 31, 6, 36, & 1, T 11N & 12N, SLBM. TO SET A POINT ON THE 1/4 CORNER BETWEEN SECTIONS 31 & 36, A LINE WAS EXTENDED FROM POINT "A" A DISTANCE OF 822.47' AT AN ANGLE OF 43° 10' 14" L.T., AND A HUB & TACK WERE SET. THE POINT WAS REFEFRENCED AS SHOWN AT THE RIGHT.

36 — 31
1/4

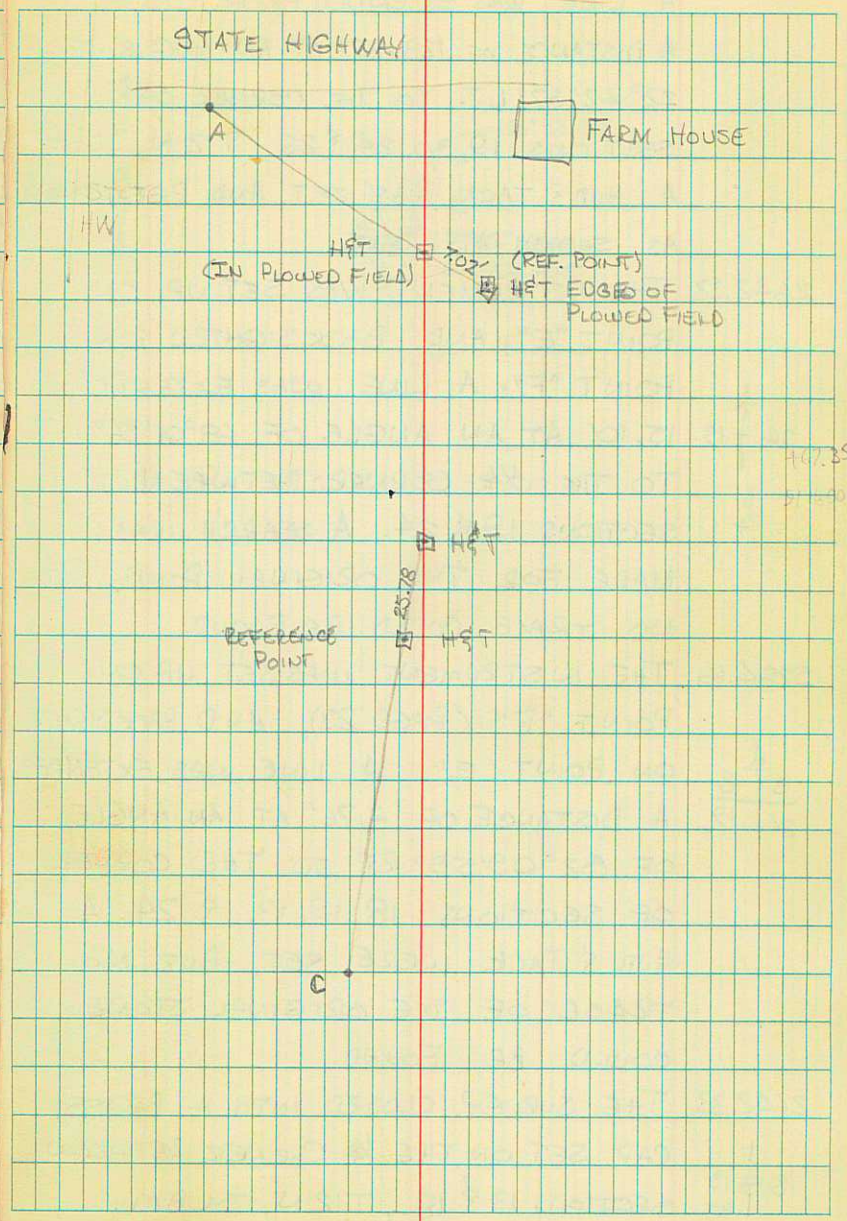
5284.66 NO POINT SET.

2642.33 THE INSTRUMENT WAS SET UP ON POINT "C" (PAGE 22) AND BACKSIGHTED ON POINT "B". THE SCOPE WAS FLOPPED, AND AN ANGLE OF 1° 23' 14" RT. WAS TURNED, AND A POINT WAS SET ON THE 1/4 CORNER BETWEEN SECTIONS 30 AND 25, T12N, SLBM, BEING 493.02' FROM POINT "C". THE POINT WAS REFEFERENCED AS SHOWN AT THE RIGHT.

25 — 30
1/4

5284.66 THE INSTRUMENT WAS SET UP ON POINT "D" AND BACKSIGHTED ON POINT "C" (PAGE 22)

24 | 19
25 | 30



A LINE WAS EXTENDED FROM POINT "D" A DISTANCE OF 123.27' AT AN ANGLE OF 22° 42' 37" L.T. TO THE CORNER OF SECTIONS 19, 30, 24, & 25, T12N, SLBM. A HUB & TACK WAS SET AND REFERENCED AS SHOWN AT RIGHT.

2642.33 THE INSTRUMENT WAS SET UP ON POINT "E", AND BACKSIGHTED ON POINT "F". A LINE WAS EXTENDED 15.10' AT AN ANGLE OF 68°01'56" L.T. TO THE 1/4 CORNER BETWEEN SECTIONS 19 & 24. A SEARCH WAS MADE FOR THE ORIGINAL POINT, BUT NO TRACE COULD BE FOUND.

24 | 19
1/4

5284.66 THE INSTRUMENT WAS SET UP ON POINT "F" (PAGE 23), AND BACKSIGHTED ON POINT "E". A LINE WAS EXTENDED A DISTANCE OF 2.76' AT AN ANGLE OF 82°09'59" R.T. TO THE CORNER OF SECTIONS 18, 19, 13, & 24. A HUB & TACK WERE SET, BUT NO TRACE OF THE ORIGINAL STONE COULD BE FOUND.

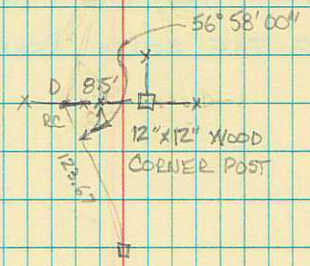
13 | 18
24 | 19

2642.33 THE SURVEY CLOSED INTO A BRASS CAP SET ON THE 1/4 CORNER BETWEEN SECTIONS 13 & 18, T12N, SLBM.

18 | 13
1/4 BC

24 | 19
25 | 30

N

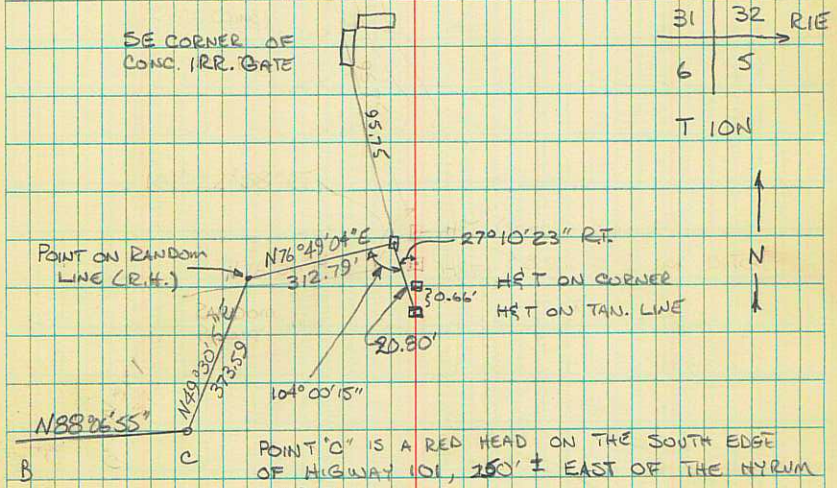


373.60
5822.00'

SURVEY BEGUN AT CORNER OF SECTIONS 31, 6, 36, AND 1, T 10N & 11N; R1E & 1W, AND CARRIED EAST ALONG THE SOUTH BOUNDARY OF T 11N.

5290.86 TO SET THE CORNER OF SECTIONS 32, 5, 31, & 6, T 10N & 11N, R1E, THE INSTRUMENT WAS SET UP ON POINT "C" (PAGE 7), BACK-SIGHTED ON "B", AND AN ANGLE OF 141° 23' 20" R.T. WAS TURNED. A LINE WAS EXTENDED FROM POINT "C" 373.59', TO A POINT ON A RANDOM LINE. FROM THE POINT ON THE RANDOM LINE, BEING BACK-SIGHTED ON "C", THE SCOPE WAS FLOPPED, AND AN ANGLE OF 27° 18' 49" RT. WAS TURNED, AND A LINE WAS EXTENDED 312.79' TO A POINT. FOR THAT POINT AN ANGLE OF 104° 00' 15" LT WAS TURNED, AND A LINE EXTEND TO A POINT ON THE SOUTH TANGENT LINE OF T 11N, R1E. A POINT WAS THEN

T 11N
31 | 32
6 | 5
T 10N
R1E



SET 0.66' DUE NORTH FROM THE POINT ON THE TANGENT LINE, AND REFERENCED AS SHOWN ON THE BOTTOM OF PAGE 26.

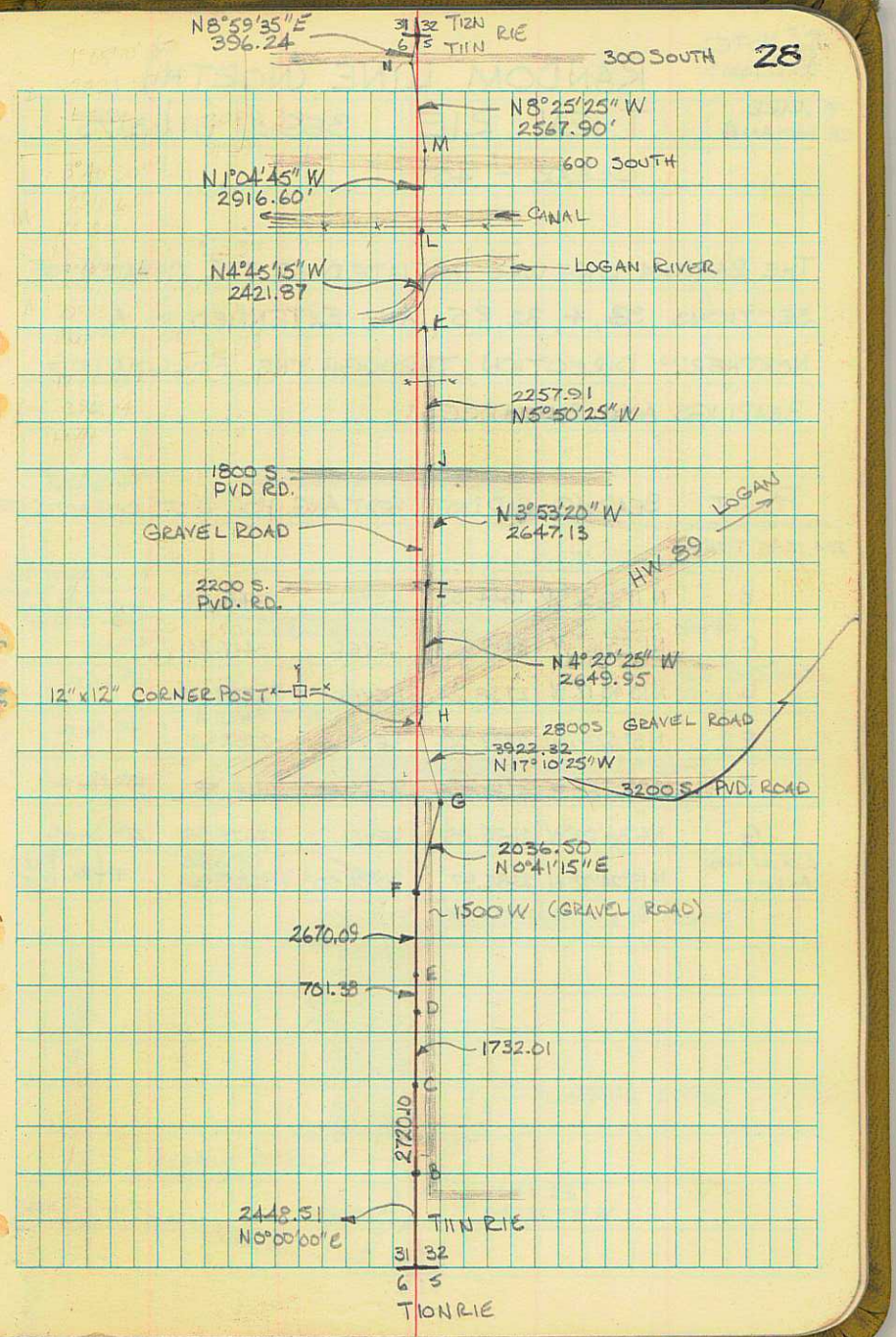
R Williams
Φ Ward
Hoang

RANDOM LINE (NORTH); T11N, R1E. 11/3/75

11/12/75 – 45° CLEAR

A RANDOM LINE WAS INITIATED AT THE CORNER OF SECTIONS 32, 5, 31, & 6, T10N & 11N, R1E; AND CARRIED IN A NORTHERLY DIRECTION THROUGH THE FOLLOWING POINTS AND COURSES.

	BEARING	SLP DIST	VERT.	HOR. DIST.	
COR SEC 32, 5, 31, & 6. T10N & 11N		+360.08	LEVEL		
B	N0°00'00"E	2089.30	91°39'05"	2448.51	NORTH EDGE OF RD 25' FROM E-W FENCE LINE
C	N0°00'00"E	2720.30	90°42'00"	2720.10	E-W RD (PUBLIC, GRVL)
D	N0°00'00"E	1732.03	90°15'40"	1732.01	BETWEEN PRIVATE ROAD AND E-W DITCH (IRR.)
E	N0°00'00"E	701.38	LEVEL	701.38	
F	N0°00'00"E	2670.10	90°08'30"	2670.09	ON E-W ROAD (PRIVATE)
G	N0°41'15"E	2036.50	LEVEL	2036.50	SOUTH EDGE OF EAST-WEST PAVED ROAD
H	N17°10'25"W	3922.37	90°17'00"	3922.32	NEAR HWY 89
I	N4°20'25"W	2649.97	90°14'00"	2649.95	NORTH EDGE OF E-W PAVED ROAD
J	N3°53'20"W	2647.14	90°11'15"	2647.13	NORTH EDGE OF E-W PAVED ROAD (CY. UNIG (WARD)
K	N5°50'25"W	2257.93	90°13'30"	2257.91	SOUTH BANK LOGAN RIVER
L	N4°45'15"W	2421.87	LEVEL	2421.87	South edge of E.W. Canal
M	N1°04'45"W	2916.60	LEVEL	2916.60	North edge of 6th South Rd
N	N8°25'25"W	2567.90	LEVEL	2567.90	South edge of 3rd S. Rd.
COR. SEC 32, 5, 31, 6 T11N, R12N	N8°59'35"E	396.24	LEVEL	396.24	



NOTES
WILLIAMS
& WARD
CH. HOANG

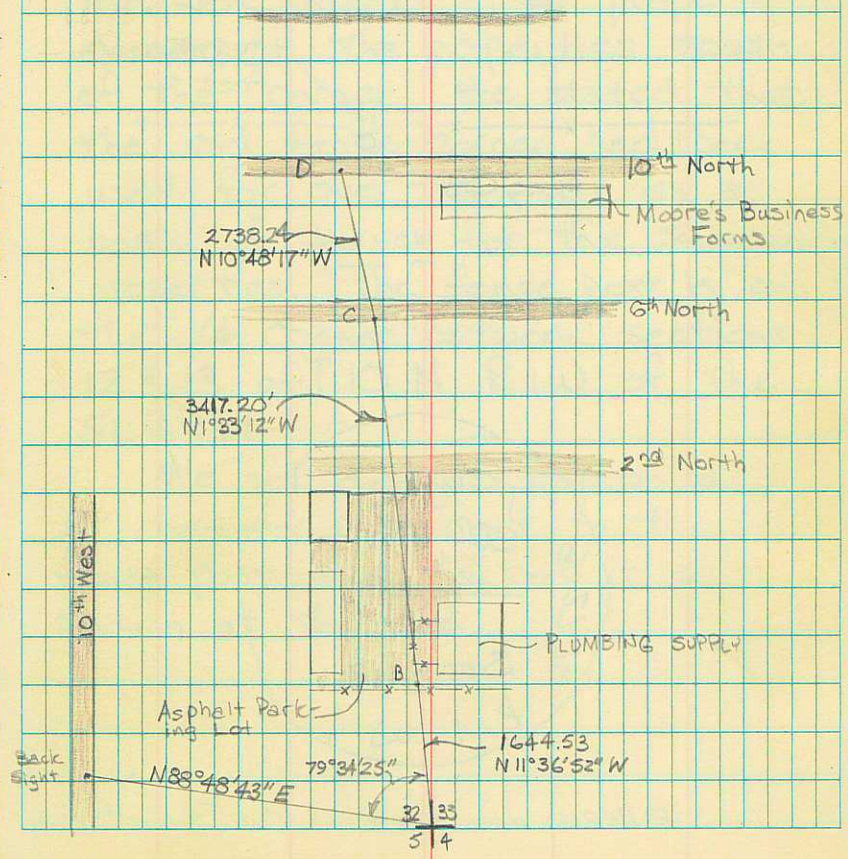
RANDOM LINE (NORTH)

T 12N R 1E BEGUN 11/13/75

CLEAR - 45°

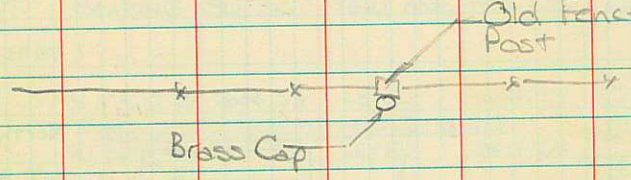
THE RANDOM LINE WAS INITIATED AT THE CORNER OF SECTIONS 33, 4, 32, & 5, AND EXTENDED IN A NORTHERLY DIRECTION THROUGH THE FOLLOWING BEARINGS AND DISTANCES:

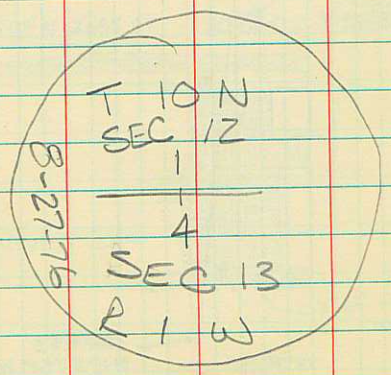
POINT	BEARING	SLP DIST	VERT ANG.	HOR DIST	PHYSICAL CHARACTERISTICS
CORNER OF SECTIONS 33,4,32,&5 T12N R1E					
B	N 11°36'52" W	1644.53	LEVEL	1644.53	PT. ON SOUTH PARKING LOT AT PLUMBING SUPPLY, 2nd NORTH
C	N1°33'12" W	3417.20	LEVEL	3417.20	SOUTH SIDE OF 6th NORTH
D	N10°48'17" W	2738.24	LEVEL	2738.24	10th North
E	N5°52'47" W	2737.30	LEVEL	2737.30	14th North
F	N0°07'27" W	2714.29	90°06'40"	2714.28	18th North
G	N6°34'02" W	2675.89	LEVEL	2675.89	22nd North
Corner Near Airport	N13°24'02" W	2685.97	90°06'50"	2685.96	17/16 T12N R1E



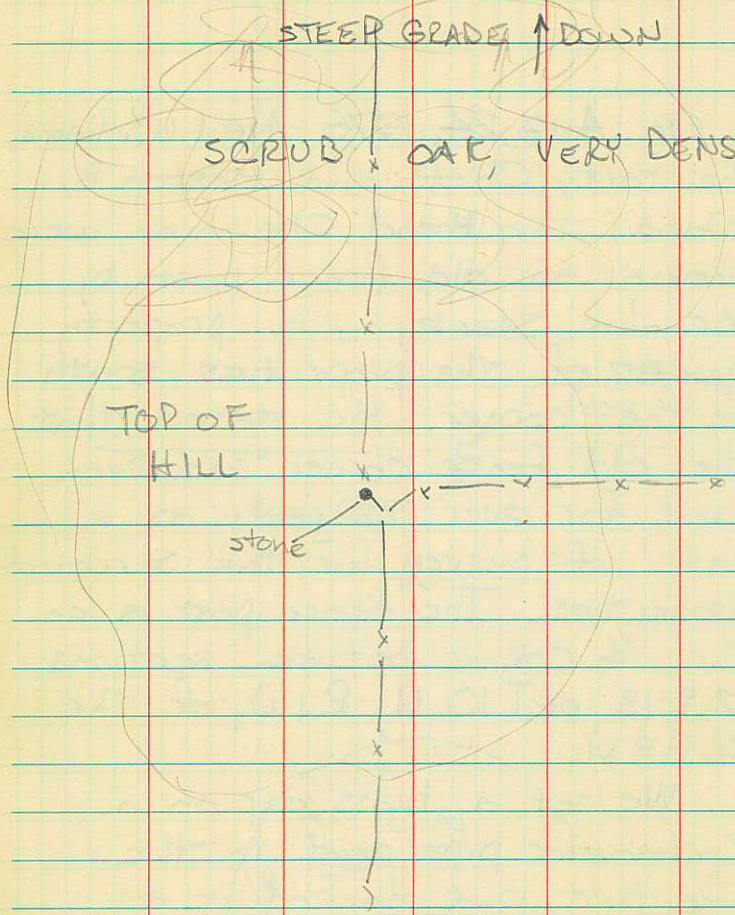
On AUG 24, 1976, Neil Williams, the Party Chief, and Preston B. Ward, The Head Chairman, were shown an old fence post by Mr. Joe Starky, a property owner of the properties South of the corner. He stated that the old fence corner had been used for over 70 years as a basis of survey for the surrounding properties. The fence post is on the 1/4 corner between sections 12 & 13 of T 10 N, R 1 W, of the SLB&M.

We set a brass cap on a 2" diameter pipe next to the fence post, and marked it as shown at the left.





ENTERED INTO SECTION COR. BOOK # 108



8-25-76

We found a large sandstone 12" x 12" x 20" Marked very plainly with 6 notches on all four sides. The stone was found at the intersection of a north-south and east west fence line on top of a hill. The stone marks the corner of T9N & T10N and R1W and R1E of the SLB&M.

We dug a hole and set a brass cap on a 2" metal pipe. The original stone was buried along side the new point, and a mound of rocks was placed around it.

SEE SECTION CORNER TIE BOOK #102

	SLP DIST	VERT ∠	HOR DIST
℄ BXTR RD to POT 5	184.32	64°02'30"	
POT 4 to POT 5	85.61	102°26'40"	83.60
POT 3 to POT 4	470.30	93°43'10"	469.31
POT 1 to POT 3	1287.33	90°19'00"	1287.32

POT 1 TO FENCE LINE 94.40' South

TO SET THE CORNER OF SECTIONS 24, 25, 19, & 30; GO 100.20 feet South of POT 1

TO SET T¼ COR SEC 24 & 19
GO 126.25' South of POT 2

PROP DIST = ⅓ TOT DIST = 2659.82
TOTAL DIST = 7979.47

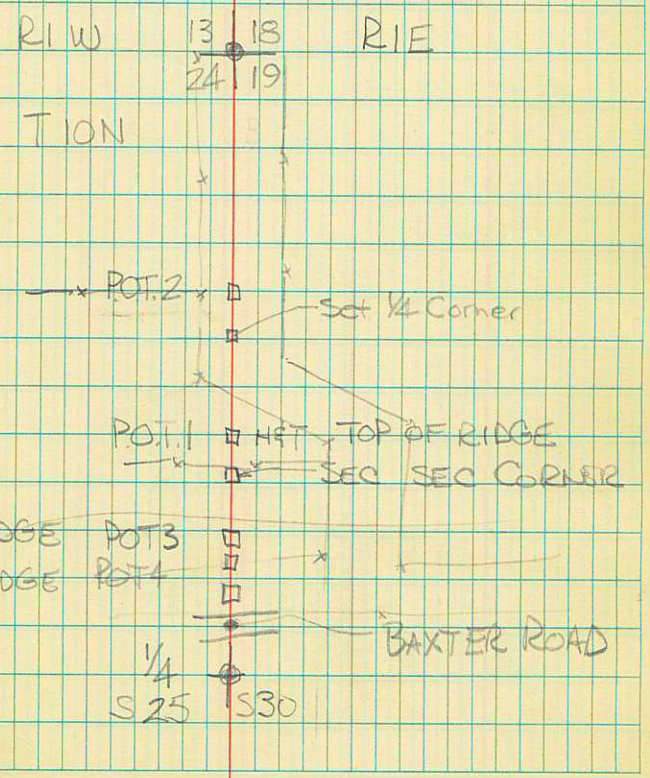
POT 2 to SEC COR	2534.63	91°39'30"	2533.57
POT 1 to POT 2	2698.23	95°29'00"	2685.88
POT 1 to ¼ COR	2762.04	87°48'30"	2760.02

T 10N R 1E & 1W SEC 24 | 19 & 32 / 25 | 30

8-27-76 T NDW

℄ WARD Clear

The Instrument was set



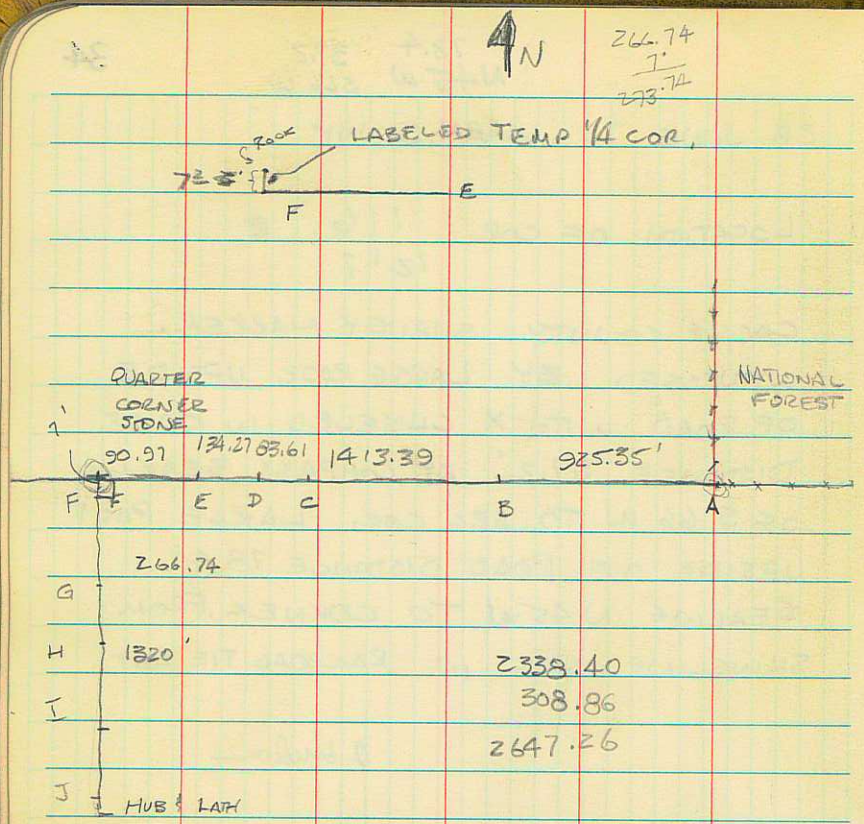
78.4 N45W 37.2 S66W

28 JUNE 77 WARM, SUNNY

LOCATION OF COR $\frac{1}{12}\frac{6}{7}$. E

CACHE COUNTY SURVEY MARKER.
WITNESSED BY LARGE ROCK UPSIDE
OF ROAD WITH X CHISELED IN FACE
DISTANCE 37.2' AT COMPASS BEARING
OF S 66 W TO SEC COR. LARGE POST
UPSIDE OF ROAD DISTANCE 78.4'
BEARING N 45 W TO CORNER. FROM
SHINGLING NAIL IN RAILROAD TIE POST.

A Hulbert



	VERT ∠	SLOPE DIST	HORIZ DIST
F TO G			266.74
G TO H	100° 12'	130.58	128.52
			395.26
H TO I	102° 28'	892 38	871.34
			1266.60
I TO J			53.40
			1320.00

2338.40
308.86
2647.26

83.61

LOCATION OF NORTH Q. COR. SEC 7 T5P R.

29 JUNE 77

HUDSON NOTES

WARD

BOSKE

TWP. 14N1
R. 25

LOCATED FOREST SERVICE MONUMENT CORNER OF 6/5 7/8
AND USING A E-W FENCE LINE AS
A BACKSIGHT WE RAN A LINE UP TOWARD
NEXT CORNER (WEST)
AT A DISTANCE OF 2647.26 FT FROM CORNER
6/5 7/8 AND ON SAME LOCATION OF QUARTER
CORNER AS PER ORIGINAL SURVEY NOTES
WE FOUND A ROCK OF QUARTZITE THE
SAME DIMENSIONS OF THE ORIGINAL CORNER.
THOUGH NO 1/4 MARKINGS WHERE FOUND
WE ASSUMED IT TO BE THE MARKER AS
IT WAS BURIED 12" IN THE
GROUND ON LINE AND ON
DISTANCE.

134.27
83.61
217.88

1320 00
1266.60
53.40
2000

217.88
90.97
126.91
30

301.61
217.88
84.13
90

		∠ VERT	SLOPE DIST	HORIZ DIST.	
A TO	B	278 38	497.64	492.00	
					828
B TO	C	88 37	~~828.35~~	828.10 ~~828.00~~	1320

30 JUNE 77

WARM (83°) SUNNY

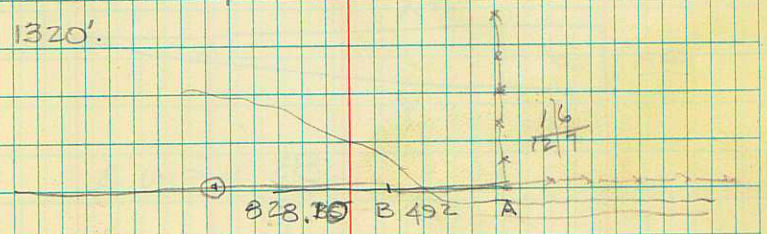
HUDSON NOTES

WARD

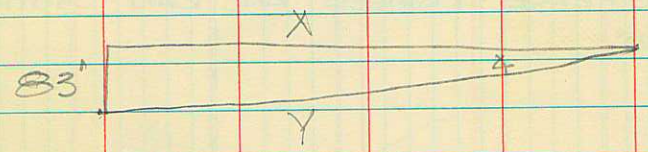
BOSHE

TWNSP 14N R 1/2 E | 2 RIE

SET ON CORNER OF 1/6 12/7 BACKSIGHT ALONG N-S FENCE, PLUNGED AND RAN SOUTH 1320'.



∠ V	SLP		9418
	492	2640	
		2148	
8310	1460.1		
	1459.35	688.65	
9252	194.58		
	194.34	49431	
9611	494.34	494.94	

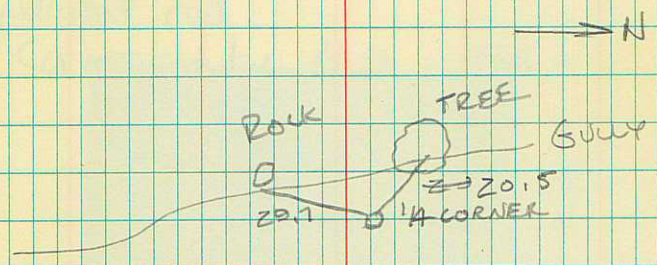


$$\frac{83}{Y} = \sin \angle$$

1 JULY

1 July 77
Hot, sunny
Hudson, Boshe

1/4 corner on section line between 7 and 6 TNSP 4N Range 2 1/2E
Witnessed corner by X carved in tree in bottom of gully and rock monument # to south in gully bottom



July 1 1977

hot, windy

Boshe Hudson

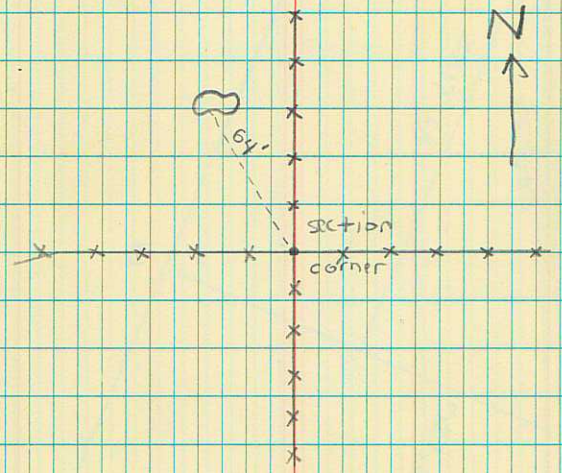
Section corner

6	5
7	8

Range 2 E T 15 N

Witnessed corner by X chiselled in large quartzite rock painted red

Corner set by BLM 1968



	Horiz ∠	SLOPE DIST	VERT ∠	Horiz DIST.
A TO B		1118.45	90°26'	1118.42
B TO C	32°53'20"	1783.00	262°50'	1769.07
C TO D	11°04 30	2499.88	266 5820	2496.39

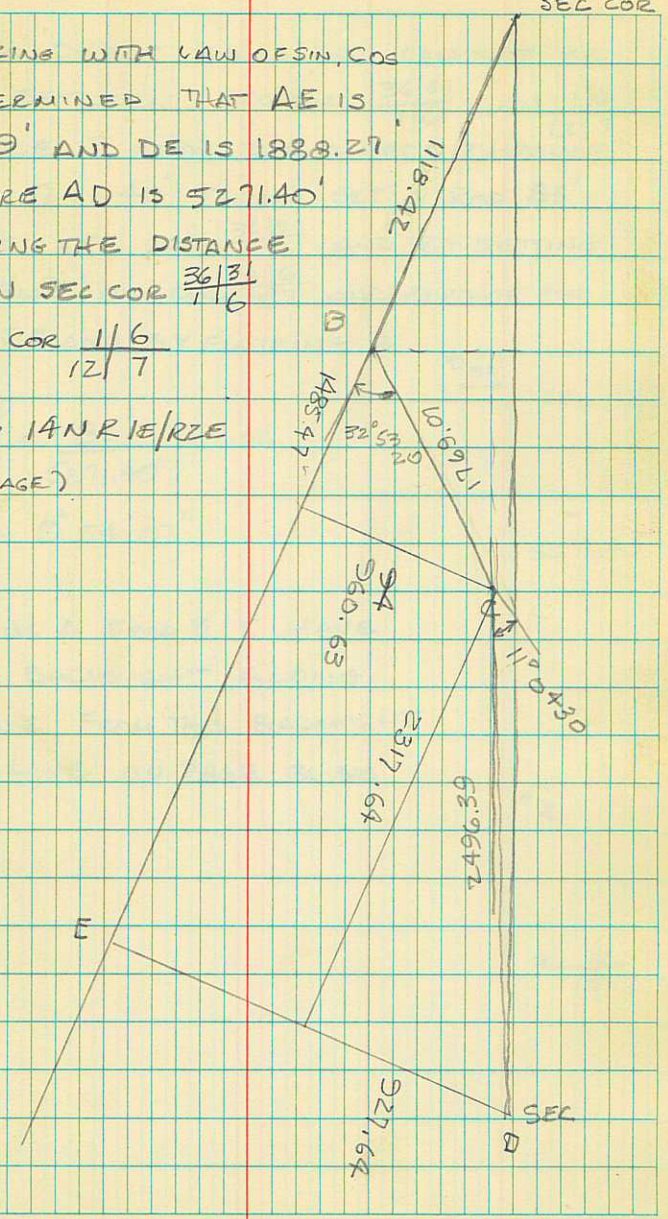
4S

4 40

BY FIGURING WITH LAW OF SIN, COS I DETERMINED THAT AE IS 4921.59' AND DE IS 1888.27' THEREFORE AD IS 5271.40' THAT BEING THE DISTANCE BETWEEN SEC COR 36/31/1/6 AND SEC COR 1/6/12/7

BETWN SP 14N R1E/R2E

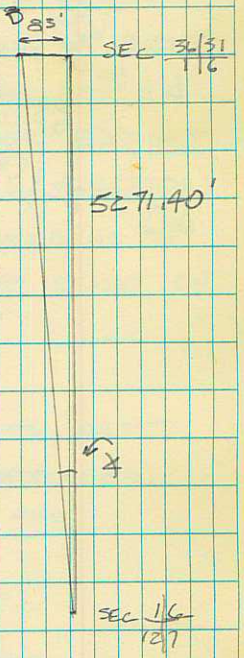
(NEXT PAGE)



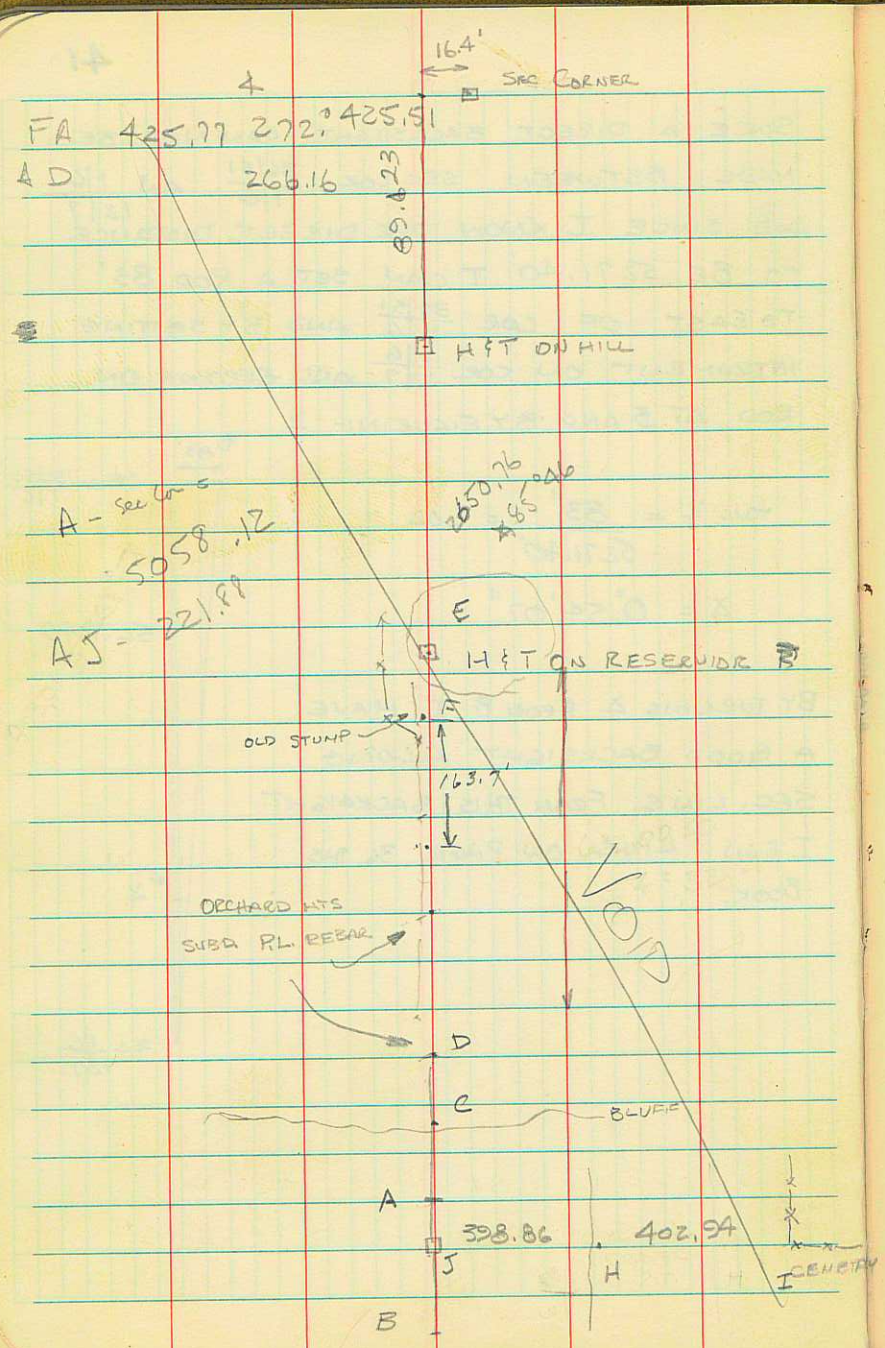
SINCE A DIRECT BACKSIGHT CAN NOT BE MADE BETWEEN SEC COR $\frac{36|31}{1|6}$ AN $\frac{1|6}{12|7}$ AND SINCE I KNOW THE DIRECT DISTANCE TO BE 5271.40' I CAN SET A ROD 83' TO EAST OF COR $\frac{36|31}{1|6}$ AND BY SETTING INSTRUMENT ON COR $\frac{1|6}{12|7}$ AND SIGHTING ON ROD AT B AND BY FIGURING ∠

$$\tan \angle = \frac{83'}{5271.40'} = .02$$

$$\angle = 0°54'07''$$



BY TURNING ∠ FROM B I HAVE A GOOD BACKSIGHT ALONG SEC. LINE. FROM THIS BACKSIGHT I RAN LINE ON PAGE 36 THIS BOOK.



8 JULY 77 RUN OF E-W SEC LINE BETWEEN SEC 2 AND 34 T12N R1E

LOCATED TWO PROPERTY CORNERS OF ORCHARD HTS SUBD. THAT ACCORDING TO RECORD OF SURVEY IS ON SECTION LINE. ADVANCED LINE UP TO RIVER HTS RESERVOIR AND FROM THERE UP TO SECTION CORNER. FOUND STUMP OF OLD FENCE LINE 165.7' EAST OF EASTERN CORNER OF SUBDIVISION 163.7' EAST OF CORNER REBAR BUT OFF LINE 0.22' FROM SUBDIVISION P.L./ SECTION LINE. DISTANCE IS CLOSE ACCORDING TO RECORD OF SURVEY (163.68) BUT STUMP IS NOT ON LINE.

N-S LINE FROM CEMETARY NORTH WEST CORNER 801.8' (FROM RECORD OF SURVEY) TO SECTION CORNER.

DC 860.41 X 94° 11' 00" = 858.12
DA 1999.84 X 93° 39' 30" = 1995.76
DB 2398.42 X 97° 58' = 2375.27
DE ~~66~~ 622.00 X 328° 47' = 328.37
HI 403.01' X 268° 58' = 402.94

FD (398.86)

18 JULY 77 — 70.99 — HOT, SUNNY, 90° F

HUDSON NOTES

WARD A

BOSHE Ø

STA	HORIZ ∠	VERT ∠	SLOPE D	HORIZ D	PLATTED DISTANCE
A TO B	Ø°	95°11	365.8	364.3	364.3
		~~272°00~~	~~425.81~~		
C TO D	0°	272°00	425.81	425.55	425.23
D TO E	0°18'	93°56	167.74	167.34	167.33
E TO F	0°	86°13'	131.58	131.29	133.67
F TO G	0°6'	96°44	416.79	413.91	
				1158.09	
F TO A	1°00'20"	94°06	1950.91	1945.92	
C TO A				2670.10	
F TO I	0°	93°39'	1870.07	1866.28	
I TO H	0°	102°42'	77.879	75.89	

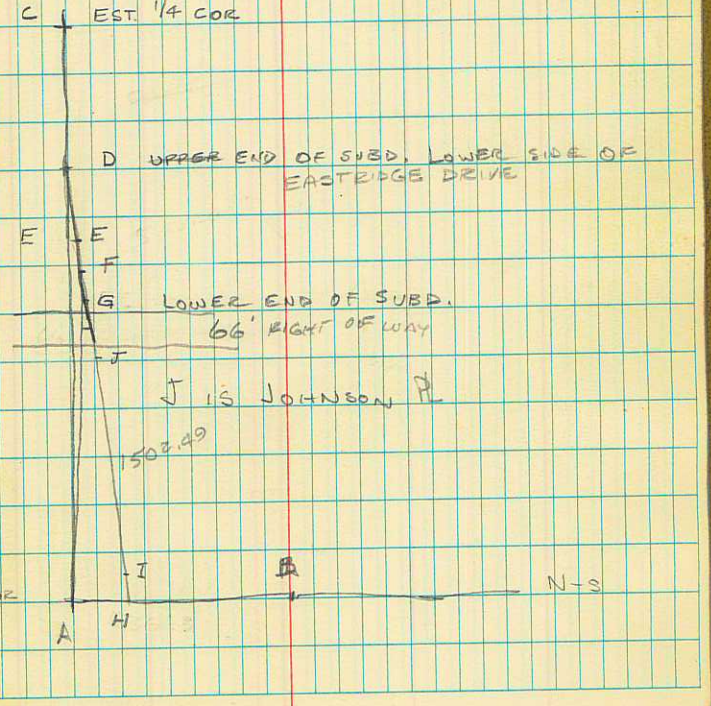
PER. DISTANCE FROM H TO A 30.44

A B J	74°24'30"	87°50'	1485.03	1483.97
A B J G	75°~~26~~ 25'30"	87°55'	1583.77	1582.72

LINE BETWEEN TWP 12 N AND TWP 11 N

R 1 E

EXTEND N-S LINE FROM STEWART-HALL SUBD. ACROSS L.G. JOHNSON PROPERTY 364.3' AND SET A HUB AND TACK. SET UP ON SUBD CORNER ON BLUFF B.S. ON SUBD CORNER (BOLT HEAD) BY ~~SE~~ METARY FENCE CORNER.

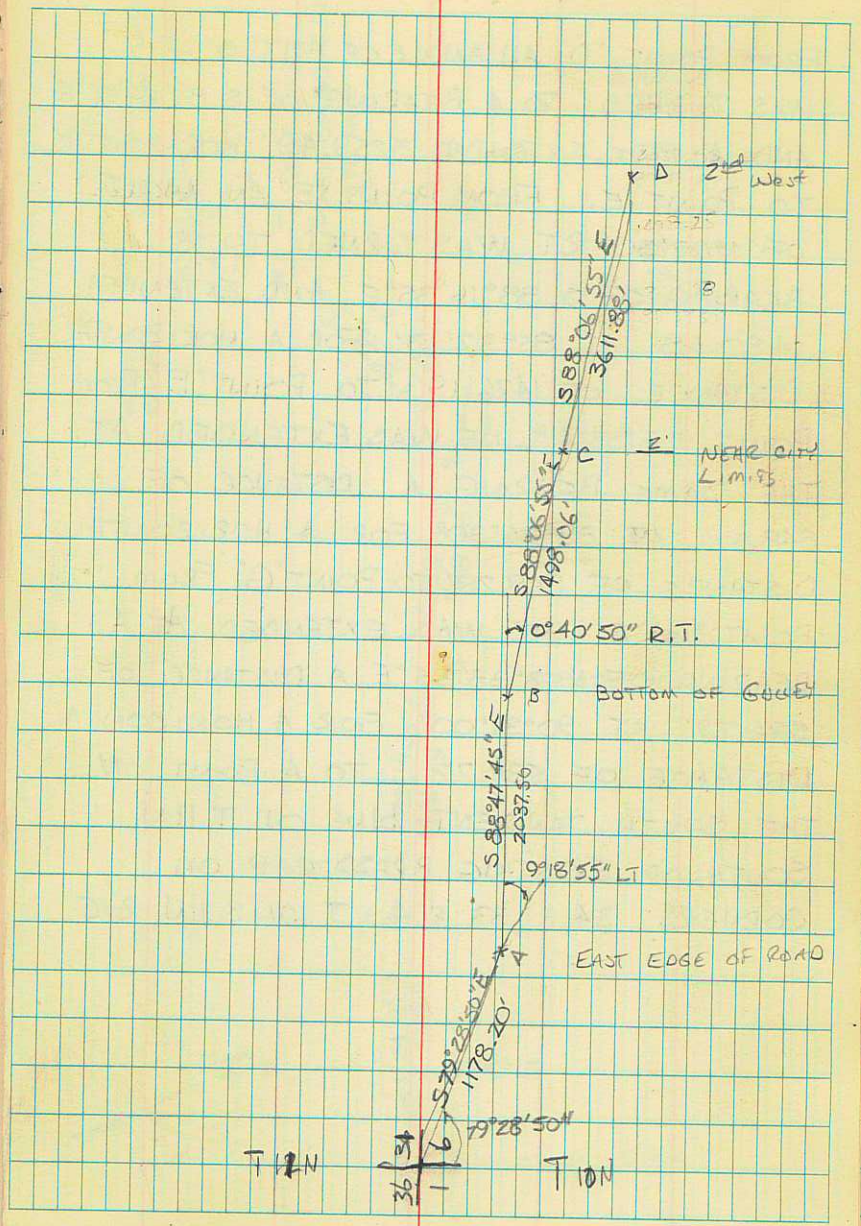


RANDON LINE SURVEY

SOUTH LINE, T11N

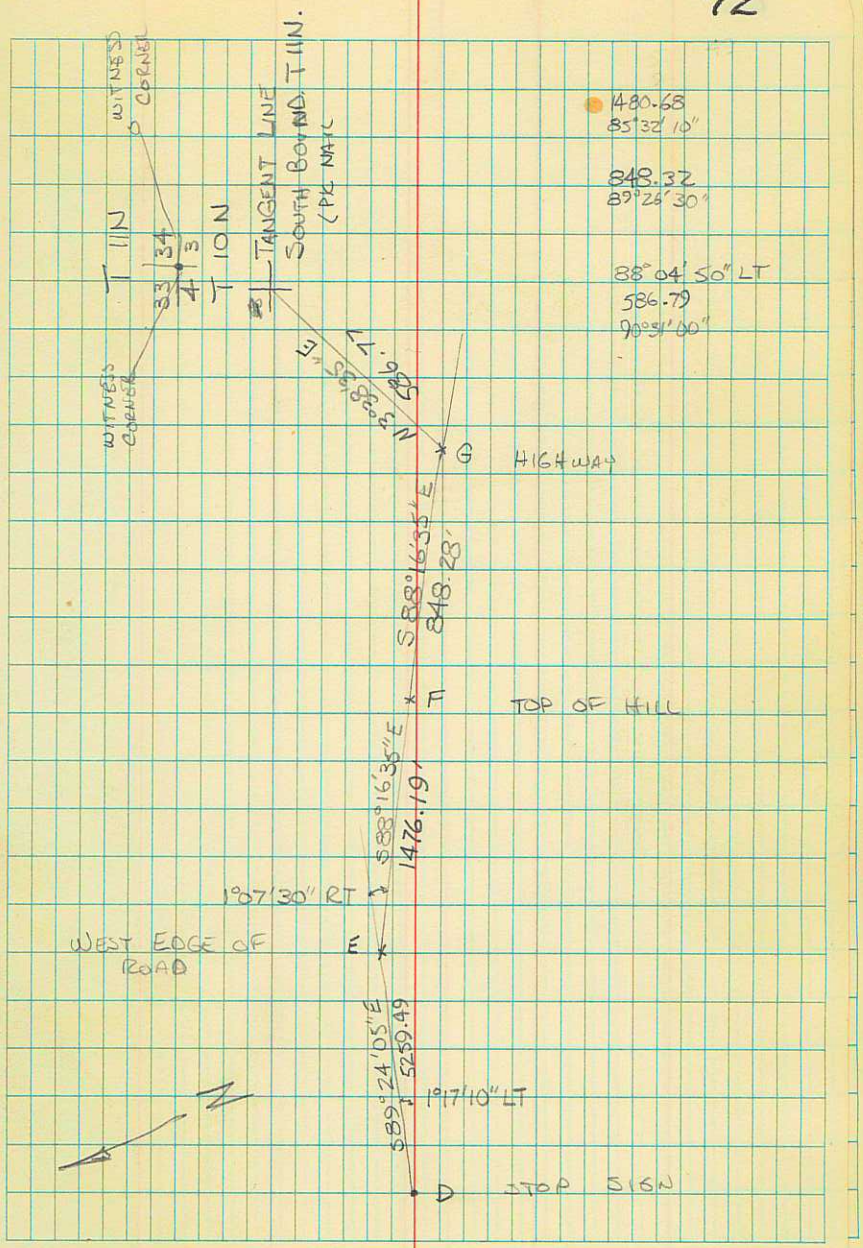
OCT. 1, 1975 2:00 P.M 75°

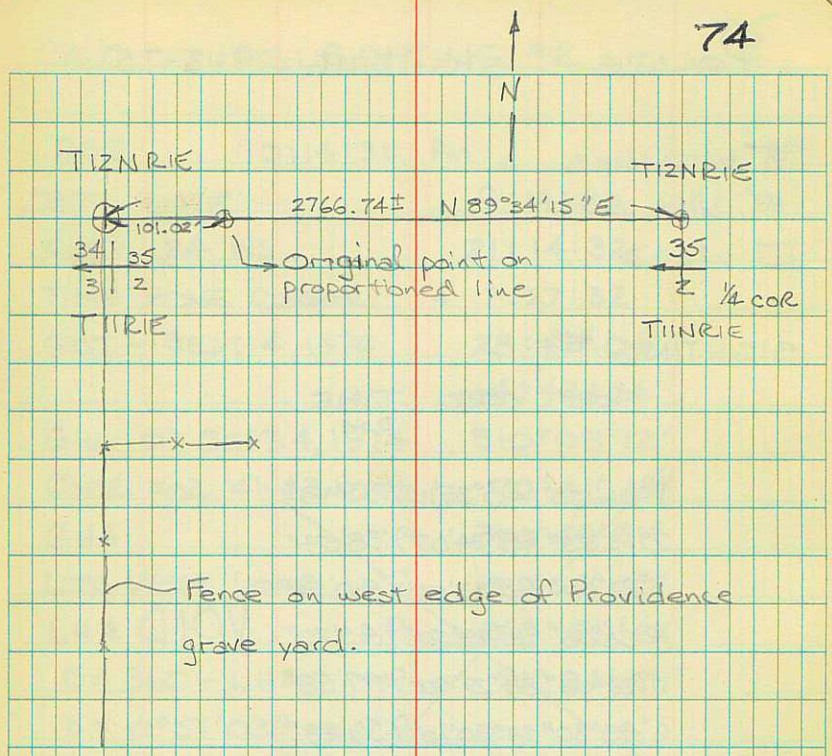
A RANDOM LINE WAS INITIATED AT THE CORNER OF SECTIONS 31, 6, 36, & 1, T10N, & 11N, SLBM. A LINE WAS INTIATED FROM THAT POINT AT A BEARING OF S 79°28'50" E A DISTANCE OF 1178.30' AT A VERTICLE ANGLE OF 89°15'30" FOR A HORIZONTAL DISTANCE OF 1178.20' TO POINT "A". FROM POINT "A" A LINE WAS BACKSIGHTED ON THE SECTION CORNER, AND TURNED 9°18'55" L.T. TO A BEARING OF S 88°47'45" E, AND EXTENDED 2037.53' AT A VERTICLE ANGLE OF 89°42'40" FOR A HORIZONTAL DISTANCE OF 2037.50 TO POINT "B". FROM POINT "B", A LINE WAS BACKSIGHTED ON "A", AND AN ANGLE OF 0°40'50" RT WAS TURNED TO A BEARING OF S 88 06 55E A DISTANCE OF 1498.25 AT 89°05'00", FOR A HORIZONTAL DISTANCE OF 1498.06' TO POINT C. A LINE WAS EXTENDED AT THE SAME BEARING, THROUGH "C", A DISTANCE OF 3611.98' AT 89°33'50" FOR A HORIZONTAL DISTANCE OF 3611.88' TO POINT "D".



3 38 35

FROM POINT "D" AN ANGLE OF 1°17'10" LT WAS TURNED, TO A BEARING OF S 89°24'05"E, AND A LINE EXTENDED 5259.49' HORIZONTAL TO POINT "E." FROM POINT "E" AN ANGLE OF 1°07'30" RT WAS TURNED TO A BEARING OF S 88°16'35"E, AND EXTENDED 1480.68' AT 85°32'10" FOR A HORIZONTAL DISTANCE OF 1476.19 TO POINT "F." FROM POINT "F", A LINE WAS EXTENDED AT THE SAME BEARING & DISTANCE OF 848.32' AT 89°26'30" FOR A HORIZONTAL DISTANCE OF 848.28' TO POINT "G." FROM POINT "G" A LINE WAS EXTENDED AT A BEARING OF N 3°38'35"E A DISTANCE OF 586.79' AT 90°31'00" FOR A HORIZONTAL DISTANCE OF 586.77 TO A POINT ON THE SOUTH TANGENT LINE OF T 11N, SOUTH OF EXISTING BRASS CAP ON CORNERS 34, 3, 33, & 4, T 10N & 11N, R1E





THE CORNER WAS MOVED 101.02 ft at S 89°34'15"W, To A POINT WHICH INTERSECTS A PROJECTED LINE OF SIGHT IN A NORTHERLY DIRECTION, FROM THE WEST FENCE LINE OF THE PROVIDENCE GRAVEYARD.

POLARIS SIGHTING 9-3-75

T WILLIAMS
WILLIAMS
WARD

SIGHTING #1

	HORT.	VERT.	TIME P.M.	
	1°06'50"	48°35'10"	9:35'18"	
	2°13'55"	48°34'05"	9:38'54"	
	3°21'00"	48°33'55"	9:40'56"	
	4°30'00"	311°28'50"	9:45'20"	VOID
	5°39'00"	311°29'40"	9:47'58"	
	6°48'30"	311°30'10"	9:50'48"	
AVERAGE	1°08'05"	41°27'35"	9:43'12"	

SIGHTING #2

	HORT.	VERT	TIME P.M.
	1°08'50"	48°28'00"	10:09'00"
	2°17'45"	48°27'40"	10:10'55"
	3°27'00"	48°26'55"	10:13'14"
	4°37'50"	311°35'50	10:15'50"
	5°48'50"	311°36'10"	10:18'11"
	6°59'50"	311°36'40"	10:20'02"
AVERAGE	1°09'58"	41°34'21"	10:14'32"

CALCULATIONS: SIGHTING #2

DST	10:14:32 PM
ST. TIME	9:14:32 PM
CORR. 24 hrs	21:14:32
TIME ZONE CORREC.	+ 7:27:32
GCT - SEPT 4, 1974	28:42:04
	4:42:04
GHA 0^h SEPT. 4, 1974	310°08'12"
CORR. FOR 4h42m04s	70°41'19"
GHA	380°49'31"
LESS WEST LONG.	111°54'00"
LHA	268°55'31"
t = 360 - LHA	91°04'29"

p = 0°51'03"

h = 41°32'44" - 0°01'24" = 41°31'20"

$$Z = \frac{\sin t}{\cos h} p \text{ (in min)}$$

Z = 68°06" = 1°08'06"

BEARING OF LINE = N 0°01'52"W

POLARIS OBSERVATION 9-3-75

⊼ WILLIAMS

☌ WILLIAMS

⊡ WARD

	HORT. ∠	TIME	
	1°10'00	10:38'15"	
	2°20'00	10:39'58"	
	3°29'58"	10:41'37"	
AVE	1°09'59"		

TIME OF EAST ELONGATION

AUG 29, 1975		21:46:12	
CORRECTION FOR 6 DAYS	-	0:23:28	
CORRECTION FOR LATITUDE	+	0:16:19	
ST. TIME (SEPT. 3, 1975)		21:39:33	
DST (SEPT. 3, 1975)		22:39:33	10:39:33PM

POLAR DIST (AUG 29, 1975)		0° 51' 03"
CORRECTION FOR 5 DAYS	-	0° 00' 01"
SEPT 3, 1975		0° 51' 02"

BEARING OF POLARIS $= \frac{51.0003'}{\cos 41°40'56"}$

$= N\ 1°08'17"\ E$

BEARING OF LINE = N 0°01'42" W

T12NR1E 76

RESET OF SEC. COR. $\frac{34|35}{3|2}$ T11NR1E

WARM, SUNNY

⊼ & NOTES WARD

♀ HUDSON & BOSCH

SET UP INSTRUMET ON PT. OVER LOOKING GRAVEL PIT, SITED ON FENCE LINE OF PROVIDENCE CEMETARY SET TWO ~~PTS~~ PT. IN GRAVEL PIT.

SET UP ON 1/4 COR. SITED ON POT ABOVE SEC $\frac{35|36}{2|1}$ SET ~~3~~ PT. ON RIDGE OF KNOLL OVER LOOKING THE GRAVEL PIT. DIST. OF 601.10

SET UP ON PT ON EDGE OF RIDGE SIGHTED ON 1/4 COR. SET TWO PT IN GRAVEL PIT TO INTERSECT CEM. LINE. SET PT. AT INTERSECTION FOR $\frac{34|35}{3|2}$ TOTAL DIST.

~~21~~ JUNE 77

~~SET WITNESS MARKER ON BLUFF SOUTH OF SEC CORNER. MARKER SET~~

105° 50'

2090.17

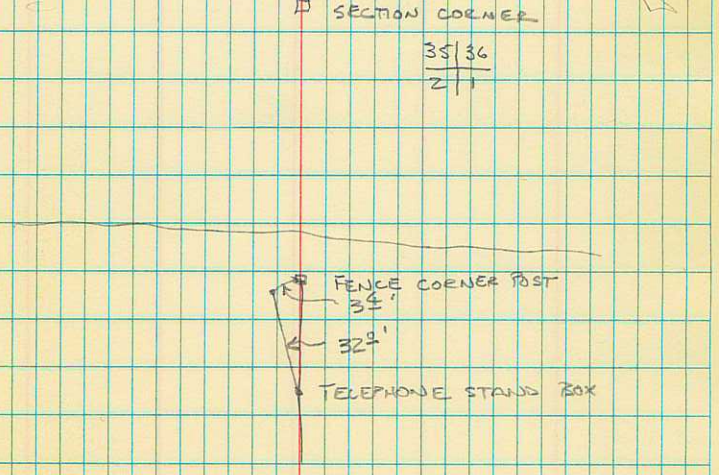
	Horiz ∠	Vert ∠	Slope Dist	Dist. Horiz
LDS Temple	60° 50' 45"			
Sec Cor	~~61° 08' 50"~~	93° 40'	403.44	
LDS Church				
Sec Cor.	34° 40'			

21 June 77 Sunny Warm

Hudson notes, ∧ Bosone ϕ

Set witness corner to section corner on bluff due south of corner. Marker is 3½ ft west of corner fence post and 32' NW of telephone stand box

Then set instrument over witness corner and took ∠ angle from east spire on LDS temple and range from witness cor. to sec corner. Also angle from LDS church to the N E of witness corner to sec cor.



925.35'
+1413.04
2338.39

2640.00
2338.40
301.60

2640
2 | 5280
4
12
12

Δ= 47°34'40"

R= 350.00

T= 154.29

L= 290.64

LC= 282.36

D= 16°22'13"

PC 156+20.75

PT 159+11.39

STA	PC Δ	PC DIST	CHORD	PI Δ	PI DIST
156+20.75					
156+50					
157+00					
158+50					
158+00					
158+50					
159+00					
159+11.39					

2° 36' 00" LT

3008.74

90° 13' 30"

3181.61 89° 41' 30"

926.08 89° 37' 00" 14° 56' 10" RT

140'

2640

5280

30

140 30

78 42

22 58 00

56

2580.27

167.62

266.53

403.47

47

43

41

