8

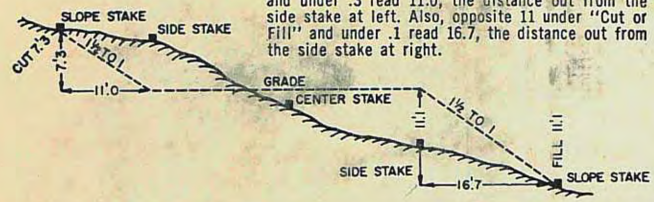
SEC. COR.

SEC. COR.
Book # 8

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Cut or Fill
	Distance out from Side or Shoulder Stake										
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

For Curve Tables see end of book.

IF FOUND RETURN TO:

CACHE COUNTY SURVEYORS OFFICE

179 NORTH MAIN STREET
LOGAN UTAH ROOM 207
TELEPHONE # 752-8348

VAL BYRAM 1-479-3076

S. 89° 43' E

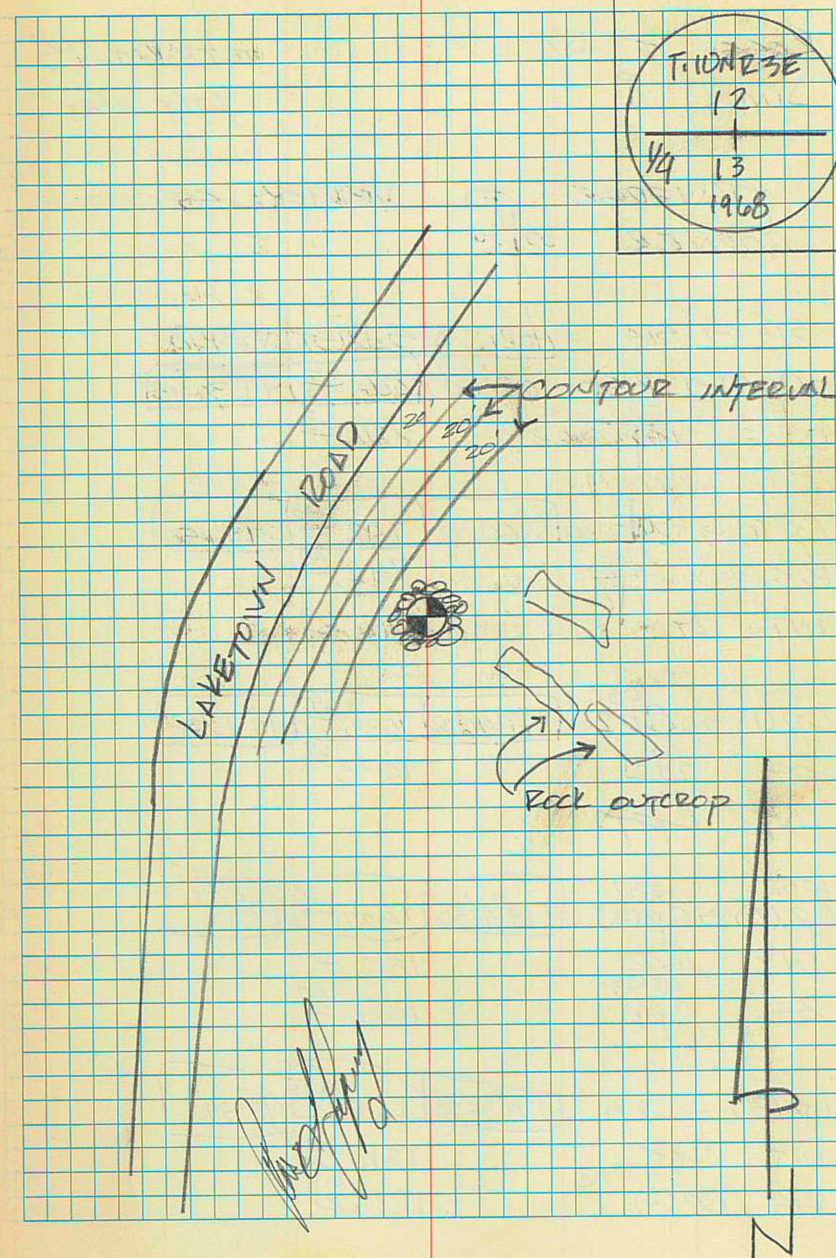
K+E The paper in this book is made of 100% high grade rag stock with a WATER RESISTING surface sizing.

KEUFFEL & ESSER CO.

ROSS ☋ HOT 95° F.

JULY 8 1983

FOUND A B.L.M. BRASS CAP SET ON A 2" GALV. IRON PIPE WITH A MOUND OF STONE ARROUND THE BASE I ACCEPTED THIS MONUMENT AS THE 1/4 CORNER COMMON TO SECTIONS 12 & 13 T. 10 N. R. 3 E. NO RP'S WERE SET BECAUSE OF THE INFORMATION AVAILABLE IN OUR OFFICE



ROSS — WARM. 75°

JIM — PTLY CLDY

TRAVERSE TO VERIFY SECTION CORNER 35|36 / 1

STA →	STA	HORIZ. ∡	S. DIST	VERT ∡
Cp(1) →	BS	00°00'	226^{64}	97°36'10"
B.S. =	36 / 1|6 cc		226^{63}	
Cp (1) →	36|31' sc / 6	0°00'00"	742^{58}	89°14'50"
B.S.	36 / 1|6		742^{51}	
INT.	RT		742^{65}	
1053 Cp(1) →	1052 Cp2	179°46'18"	1033^{69}	90°43'45"
BS	36/31 / 6		1033^{69}	
INT	LFT.			
1052 Cp (2) →	1051 Cp(3)	179°43'50"	1522^{47}	94°17'
INT	RT.		1522^{47}	
BS.	1053 Cp(1)		1522^{47}	
1051 Cp (3) →	CP 4	179°05'20"	1216^{28}	96°34'
INT.	LFT		1216^{30}	
BS	1052 CP(2)		1216^{24}	

STA → STA	HORIZ ∡	S. DIST	VERT ∡
Cp (4) → Cp(5)	179°25'52"	$1038^{\underline{56}}$	103°08' 15"
B.S. Cp 3		$1038^{\underline{56}}$	
INT. RT		$1038^{\underline{55}}$	
Cp 5 → $\frac{35 \mid 36}{1}$	$\boxed{0°31'55"}$	$\boxed{232^{\underline{92}}}$	$\boxed{89°20'30"}$
INT. RT.		$232^{\underline{92}}$	
B.S. Cp (4)		$232^{\underline{91}}$	

FOUND ASPEN TREE MARKED AS DISCRIBED IN ORIGINAL NOTES.

SET A NAIL AND SHINER IN TREE AND WITNESSED THE TREE AS SHOWN ON NEXT PAGE.

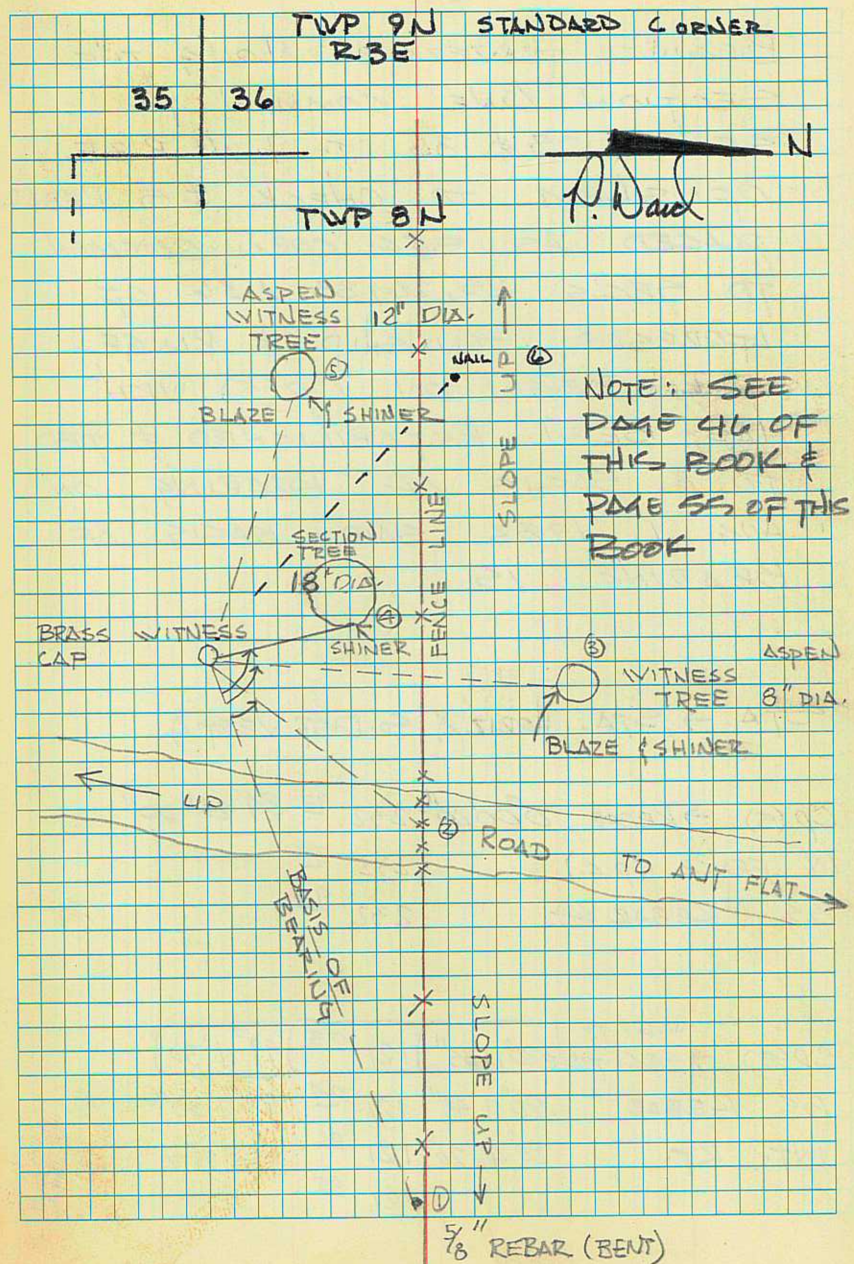
SET INSTRAMENT UP ON WITNESS CAP AND USING THE REBAR PREVIOUSLY SET BY ANOTHER SURVEYOR.

NAIL #6 WAS SET AS A P.O.T. TO CHECK DISTANCE TO TOWNSHIP CORNER BY R. LAPRAY AND J. BISHOP AUG. 1, 1983

DISTANCE FROM SECTION TREE TO FENCE EQUALS = 14.0 FT

38.03 HORZ. DIST. STAMPED ON WITNESS ~~TREE~~ CAP TO SECTION TREE

			∡ LT INT.	SLP DISTANCE	VERT ∡
① BRASS WITNESS	to	REBAR	∡ 0°00'00"	129.91	79°01'55"
② "	to	℄ OF ROAD AT GATE	40°41'58"	47.33	96°11'00"
③ "	to	WITNESS TREE	90°32'08"	65.64	99°50'10"
④ "	to	SECTION TREE	117°17'00"	38.20	95°28'45"
⑤ "	to	WITNESS TREE	144°49'15"	62.35	80°16'55"
⑥ "	to	NAIL	140°57'40"	121.83	78°33'10"



BEGIN TRAVERSE ALONG THE SECTION LINE COMMON TO SEC'S 35 & 36 T. 9 N. R 3 E. OF SLBM TO CHECK #5 REBAR PLACED AS SEC. COR. COMMON TO SEC'S 25, 26, 35, & 36 OF AFORESAID TOWNSHIP & RANGE.

I BEGIN ON CP(5) WCH HAS BEEN ESTABLISHED & TIED TO A BASIS OF BEARING ON AUG. 1 1983 SAID BASIS OF BEARING IS

STA. → STA.	HORIZ ∡	S. DIST.	VERT ∡
CP(5) → REBAR	0°00'00"	232.90	89°26'00"
IN FENCE (P.C.)		232 89	
B.S. REBAR ~~(4)~~		232 90	

CP(5) → W.C. TO SEC. TREE	20°11'35"	121 03	99°11'30"
B.S. REBAR	20°11'48"	121 04	99°11'30"
INT. RT.	80°46'20"	121 01	260°39'30"
		121 05	

STA → STA	HORIZ ∡	S. DIST.	VERT ∡
CP(5) → CP(6)	56°05'35"	1747.00	80°04'
B.S. REBAR	56°05'40"	1746.99	80°04'
INT LFT.	224°22'20"	1746.99	279°56'
		1747.00	
CP(6) → CP(7)	159°47'	300.82	87°01'
B.S. CP (5)	159°47'	300.81	87°01'
INT RT.	279°08'	300.83	272°59'
		300.81	
CP (7) → REBAR	152°49'17"	3590.27	96°46'
B.S. CP (6)	152°49'15"	3590.27	96°46'
INT. RT	251°17'08"	3590.27	263 14
		3590.26	

TRAV. RAN AUG. 10, 1983 BY ROSS LAPRAY (⊼) & JIM BISHOP (φ) TO TIE IN ORIGINAL CORNER COMMON TO SEC'S 26, 27, 34 & 35 T. 9 N. R 3 E OF THE SLB & M ALSO 1/4 COR NORTH OF SAID ORIG. MONUMENT.

STA. → STA.	HORIZ ∡	S. DIST.	VERT ∡
CP(7) BS. CP(6)	00°00'	300.82	SEE PREVIOUS PAGE
CP(7) → CP(8)	$\boxed{113°33'06"}$	$\boxed{7629.21}$	$\boxed{96°20'58"}$
B.S. CP(6)	113°32'55"	7629.23	96°20'55"
INT. RT	94°12'25"	7629.19	263°39'29"
		7629.21	
CP(7) → 1/4 COR.	$\boxed{122°08'45"}$	$\boxed{8739.93}$	$\boxed{95°55'40"}$
INT. RT.	122°08'50"	8739.94	95°55'30"
B.S. CP (6)	128°41'58"	8739.93	264°04'10"
		8739.93	
CP (8) → 1/4 COR	$\boxed{127°57'10"}$	1648.34	$\boxed{91°57'35"}$
INT LFT.		1648.32	
BS CP (7)		1648.36	

STA	→ STA	HORIZ ∡	S. DIST.	VERT ∡	
CP (8) →	27|26 / 34|35	52°02'28"	1001.39	94°08'50"	ORIG. ROCK
INT RT		52°02'30	1001 39	94°08'50"	
B.S. CP (7)		208°09'50"	1001 38	265°51'10"	
CP (8) →	FENCE C.C.	57°22'56"	6384.84	89°33'55"	∡ TURNED 5 TIMES
INT. RT.		57°22'57"	6384.85	89°33'50"	
B.S. CP (7)		286°54'40"	6384.82	270°26'	
			6384.84		
CP (8) →	MOUND OF ROCK S.C.	52°50'30"	6360 18	89°25'35"	
INT. RT.		52°50'40"	6360 18	89°25'20"	
BS. CP (7)		211°22'00"	6360 19	270°34'10"	

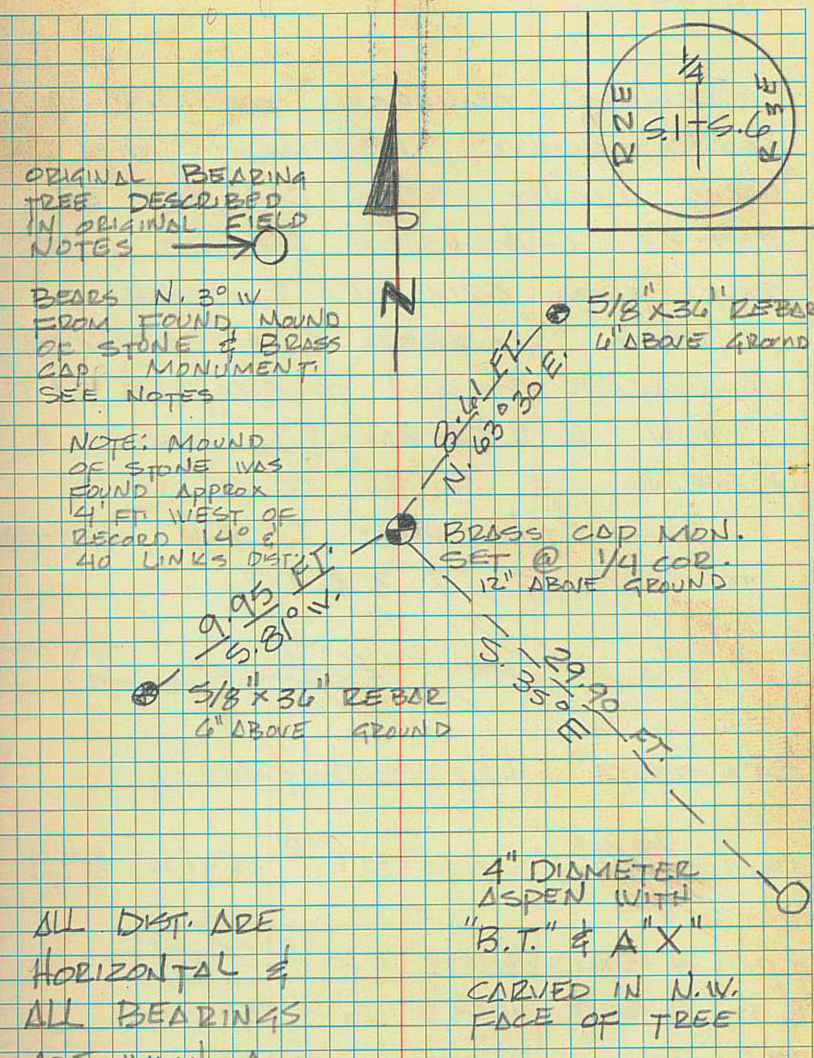
MAKE NOTES
ON 1/4 COR. BEWT.
SEC. 1 & 6 T. 9 N
R. 2 & 3 EAST

HERE

NOTE 2 PINES.

ROAD

1.2' CIR.



ALL DIST. ARE HORIZONTAL & ALL BEARINGS ARE WITH A COMPASS & HAVE BEEN ADJUSTED FOR 16° 30' MAG. DECLINATION

9-12-83

BEGINING TRAVERSE TO LINK UP FOUND SURVEY MONUMENTS WITH CACHE COUNTY BRASS CAP SET ON 9-9-83 (SHOWN ON PREVIOUS PAGE) SET FROM ORIGINAL EVIDENCE.

FROM TRAVERSE PT. 1 TO 1/4 COR MONUMENT COMMON TO SECTIONS 7 & 12 T. 9 N. R 2 & 3 EAST I ASSUME A BEARING OF S. 36° 00' 00" W.

FROM THIS POINT I RUN NORTHERLY TO TRAV. PT 2, 3 & 4

[illegible] & [illegible]

STA → STA	HORIZ ∡	S. DIST	VERT ∡	
T.P. (1) → 1/4 COR 12 & 7	0°00'00"	317.08	86°47'20"	BACK SITE
T.P (1) → T.P (2)	$\boxed{116°53'58"}$	$\boxed{1125.97}$	$\boxed{89°31'25"}$	
B.S. 1/4 COR 12 & 7	116°54'10"	1125.95	89°32'50"	
INT. RT.	107°35'50"	1125.98	270°30'00"	
TP (2) → T.P. (3)	$\boxed{139°49'14"}$	$\boxed{3427.01}$	$\boxed{91°11'03"}$	
B.S. TP (1)	139°49'10"	3427.02	91°10'25"	
INT LFT.	239°27'35"	3427.01	268°49'30"	

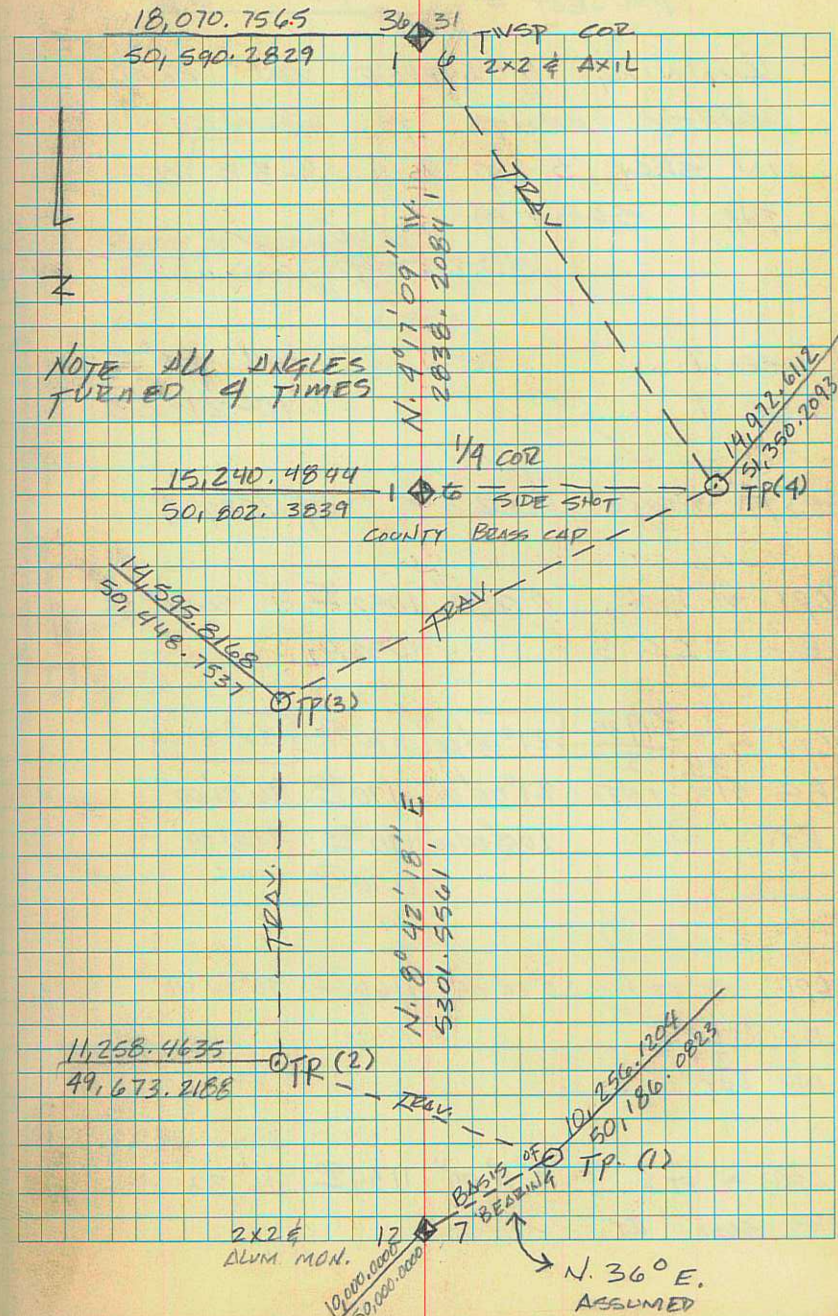
-10-

SEE NEXT PAGE FOR DRAWING

CORRECT

HORIZ ∡	VERT. ∡
139°49'10"	91°11'
199°16'55"	268°48'55"

STA → STA	HORIZ ∡	S. DIST	VERT ∡
T.P. (3) → TP (4)	$\boxed{125°45'59"}$	$\boxed{977^{\underline{63}}}$	$\boxed{92°00"}$
B.S. TP (2)	125°45'50"	$977^{\underline{62}}$	92°00'
INT LFT.	143°03'55"	$977^{\underline{64}}$	268 00"
T.P. (4) → 1/4 COR 1+6	$\boxed{48°44'30"}$	$\boxed{611^{\underline{24}}}$	$\boxed{93°55'10"}$
B.S. TP (3)	48°44'30"	$611^{\underline{25}}$	93°55'10"
INT RT S.S.	194 58'00"	$611^{\underline{23}}$	~~265 57 50~~"
TP (4) → TWSP COR.	$\boxed{98°54'09"}$	$\boxed{3192.^{\underline{27}}}$	$\boxed{87°49'52"}$
B.S. TP (3)	98°54'05"	$3192^{\underline{28}}$	87°49'50"
INT. RT.	35 36' 35"	$3192^{\underline{27}}$	272°10'05"

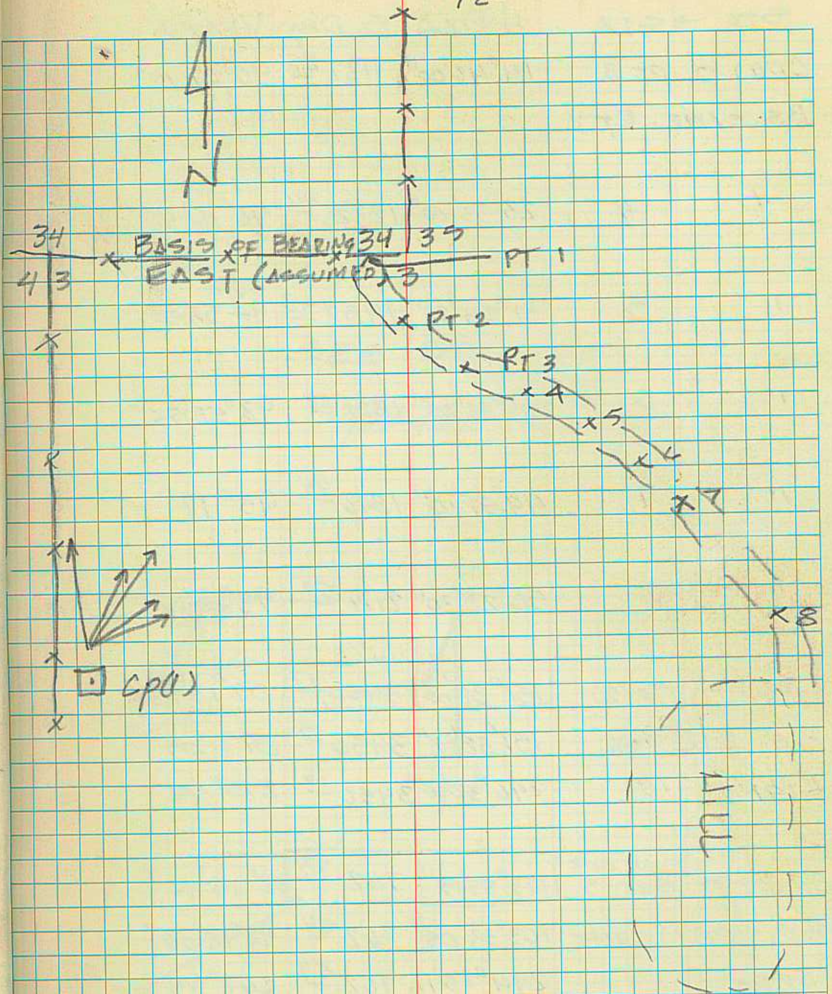


PROJECT # 1-18-83

RUNNING TRAVERSE ON ROAD
COUNTY WANTS TO ABANDON
IN SEC 3 T 8 N R 3E OF
THE SLB&M

ROSS T   COOL 60°F WINDY
JIM P   10-27-83

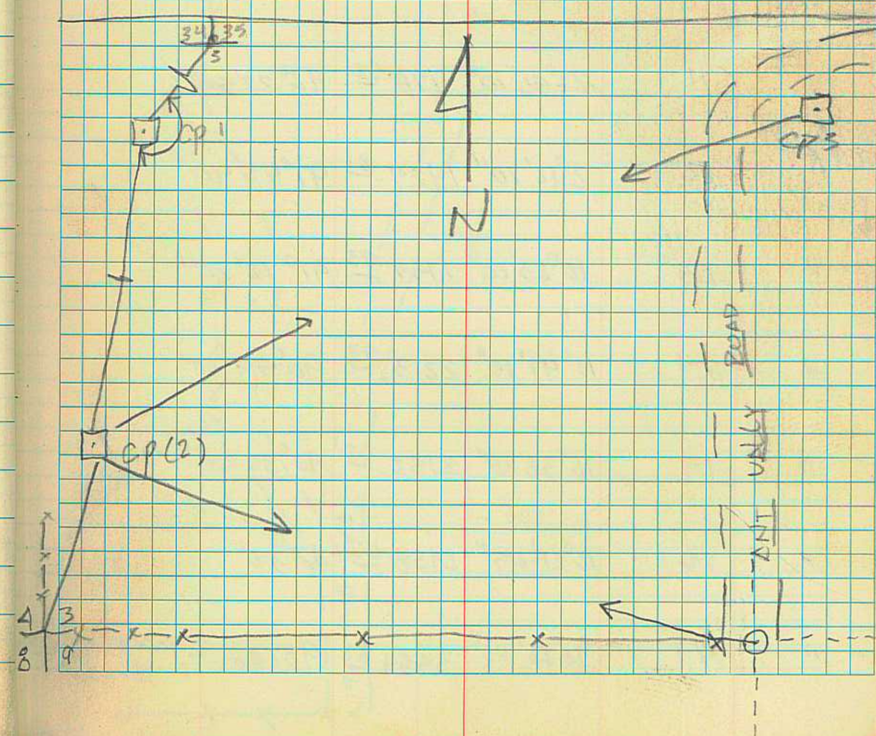
STA → STA	HORZ ∡	S. DIST	VERT ∡
CP1 → B.S.	0°00'00"	1052.45	94°56'10"
B.S. = C.C. 3		1052.44	
CP1 → 34|35 / 34|3	$\boxed{27°00'00"}$	$\boxed{1170.56}$	$\boxed{96°21'00"}$
BS 4|3 INT.	27°00'00"	1170.56	96°21'00"
RT.	108°00'00"	1170.56	263°39'
		1170.56	
CP(1) → PT 1	0°23'05"	1166.28	96°24'40"
B.S. 34|35 / 3			
INT LFT			
CP(1) → PT 2	2°11'00"	1134.50	96°33'
BS SAME RT			



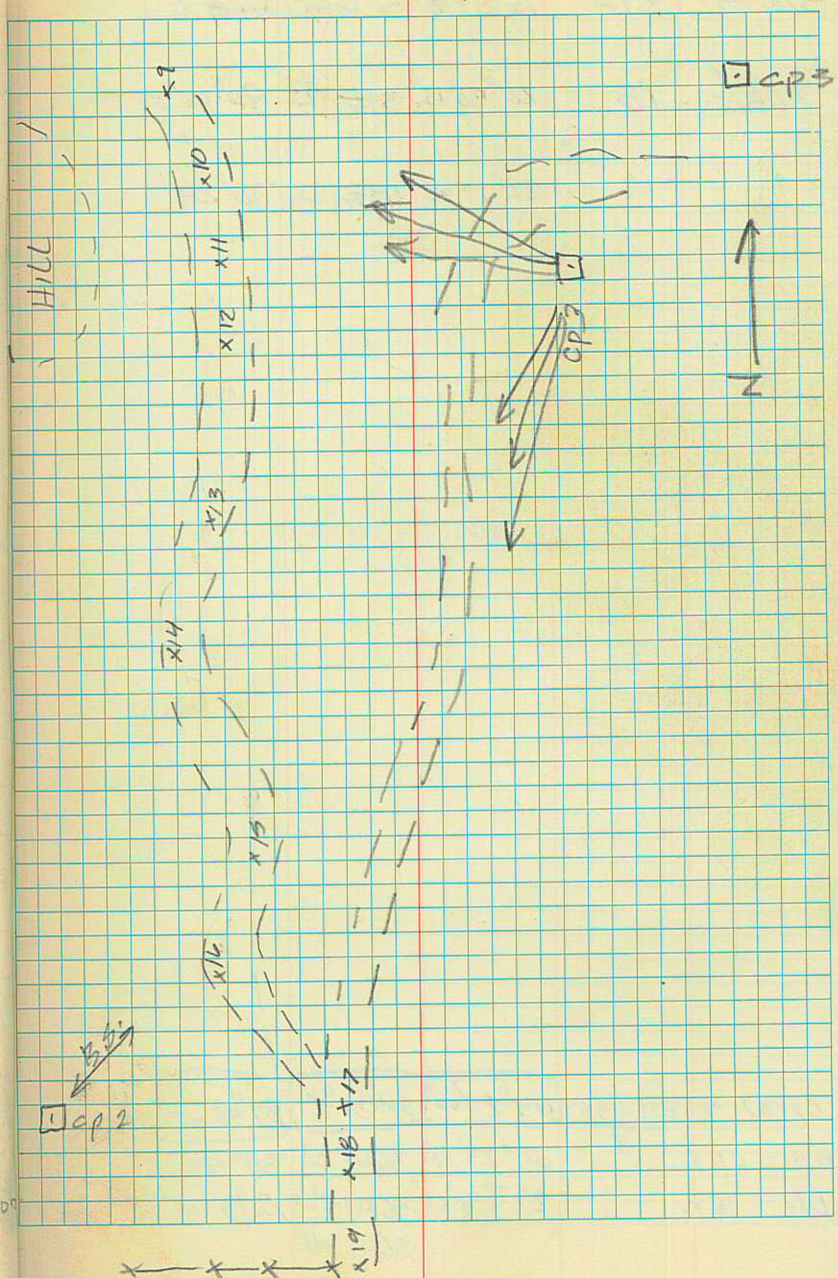
PPM CORR = 30

STA → STA		HORIZ ∠	S. DIST	VERT ∠
CP(1) →	PT 3	14°46'00"	1137.85	96°54'10"
B.S. SAME. RT				
"	4	23°33'00"	1232.44	96°16'40"
"	5	31°54'20"	1487.43	94°52'50"
"	6	35°35'25"	1828.22	93°58'55"
"	7	44°59'10"	1896.44	93°17'
"	8	56°28'30"	2111.59	93°00'00"
CP(1) →	CP(2)	$\boxed{151°38'00"}$	$\boxed{3456.17}$	$\boxed{89°13'33"}$
B.S. 34/35/3 INT		151°38'00"	3456.15	89°11'05"
RIGHT		246°32'00"	3456.19	270°44'
CP(2) →	S¼ COR SEC. 3	$\boxed{163°33'15"}$	$\boxed{762.54}$	$\boxed{92°15'00"}$
B.S. CP(1) INT		163°33'05"	762.54	92°15'00"
LEFT		294°13'	762.54	267°45'00"
CP(2) →	FENCE INTER. W/ROAD C/L	117°30'10"	1773.06	94°36'05"
B.S. CP(1) INT				
RIGHT				

SEE DRAWING
PAGE 12



STA →	STA	HORIZ ∡	S. DIST	VERT ∡	
CP(2) →	CP(3)	47°08'15"	4656.86	91°42'20"	SEE PREVIOUS PAGE FOR DRAWING
B.S. CP(1) INT		47°08'10"	4656.87	91°42'15"	
RIGHT.		188°33'00"	4656.86	268°17'35"	
			4656.85		
CP(3) →	PT 9	60°03'10"	1234.21	91°32'40"	
B.S. CP 2 INT					
RIGHT.					
"	10	52°23'40"	1113.46	92°09'10"	
"	11	21°56'10"	1178.52	92°22'50"	
℄ INT. LEFT	12	2°12'20"	1424.31	91°45'40"	
↓	↓				
"	13	10°23'00"	1759.93	91°12'00"	
"	14	11°47'10"	2213.93	90°54'00"	
"	15	16°38'10"	2752.62	90°35'50"	
"	16	16°21'45"	2938.62	90°32'	
"	17	20°22'40"	3584.82	90°20'	℄ INTERSECTION 2 ROADS



STA →	STA	HORIZ ∡	S. DIST	VERT ∡
∡ INT LEFT.	18	20°30'15"	3769.52	90°16'00"
〃	19	22°17'25"	4389.03	90°05'
CP(3) →	34 (35 / 3	64°25'00"	3641.46	89°58'50"
BS. CP1		64°25'00"	3641.47	89°58'40"
INT RT.		257°40'00"	3641.46	270 01'00"
			3641.46	

5-4-84 COOL 55° BREEZY

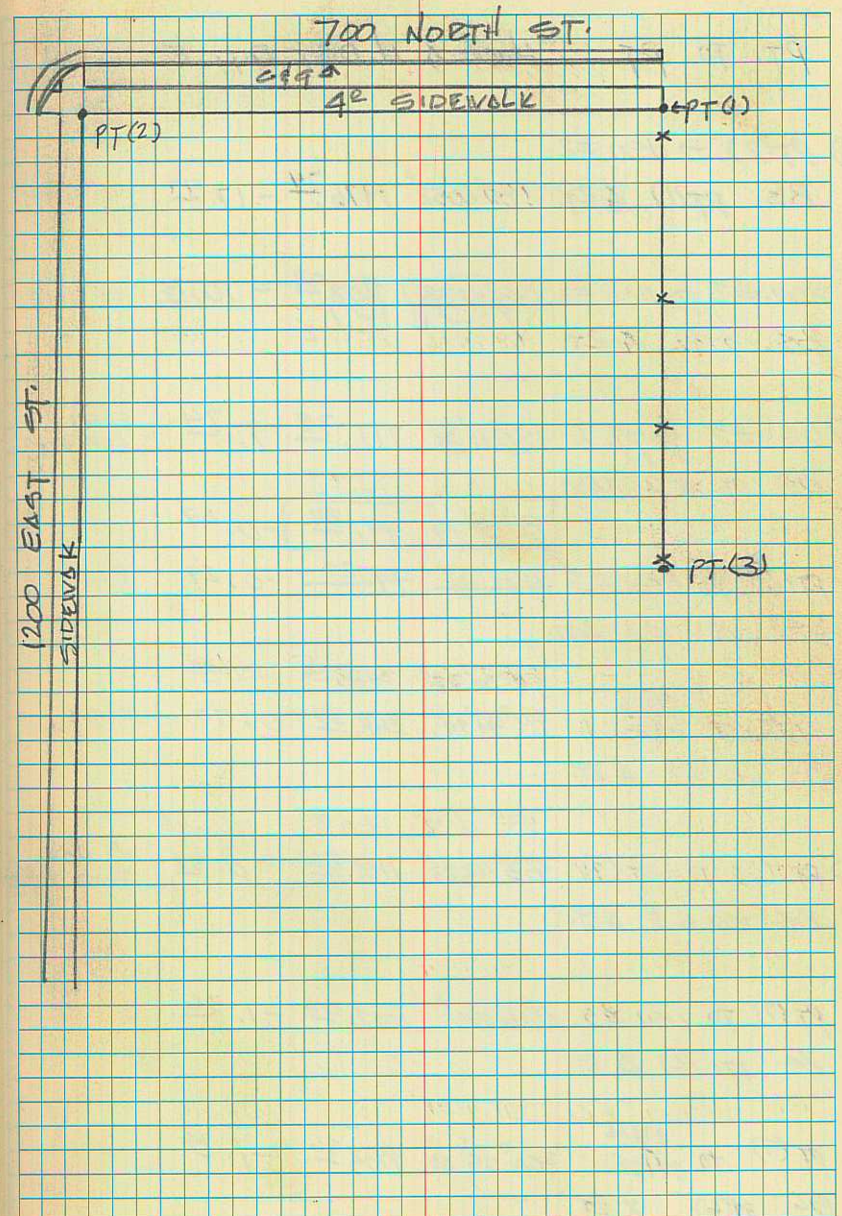
ROSS ⊼ ♡
JIM ♀

UNIVERSITY RE-SURVEY

SURVEY COMMENCED MAY 4, 1984 TO
RE-ESTABILISH N. 1/4 SEC. COR ORIGINALLY
SET BY

PT. → PT.	HORIZ ∡	H. DIST.	DIFF. EL.
PT.(1) → PT. 2 (B.S.)	0°00'00"	419.74	-4.05
PT. (1) TO PT. 3 B.S. PT 2 ∡ RT.	268°13'06"	250.31	-1.03
PT. (1) TO PT. 4 SET ON ℄ B.S. PT. (2) ∡ RT	268°13'06"	70.85	
PT (2) TO PT 5 B.S. PT 1 ∡ RT.	87°37'55"	408.17	-1.15
PT (2) TO 26/35 B.S. PT(1) ∡ RT.	120°07'18"	121.03	-1.13
PT(2) TO BLK COR B.S. PT. (1) ∡ RT.	226°02'55"	42.54	-0.64
PT(2) TO USU B.C. B.S. PT. (1) ∡ RT.	270°46'59"	63.55	-0.34

OFFSET 1.0 EAST EOP OF S.W.



PT. TO PT.	HORIZ ∡	H. DIST	DIFF. EL.	
⊙ PT(2) → USU #2 B.S. PT(1) ∡ RT.	180°00'52"	1976.74	-17.49	90°30'34"
USU. #2 TO USU #3 B.S. PT(2) ∡ RT.	~~178°10'38"~~ VOID	~~702.94~~	-10.75	90°44'41"
⊙ USU #2 TO PT. 6 BS PT. #2 ∡ RT.	186°11'35"	711.78	9.74	REBAR (WE SET)
	$\boxed{80°51'14"}$	$\boxed{99.34}$	-0.09	
* PT(6) TO USU #3 B.S. USU #2 ∡ RT.	~~81°01'40"~~	~~99.29~~	-0.27	B.C.
	84°34'28"	248.32	-0.35	
PT(6) TO 27/26 34/35 BS. USU #2 ∡ RT.	84°34'29"	248.33	-0.70	REBAR
	83°43'22"	1101.85	+0.48	
⊙ PT (6) TO PT(7) B.S. USU #2 ∡ RT.	83°43'23"	1101.86	+0.37	IN USU QUAD H[illegible]T
PT(7) TO USU #3 BS. PT. (6) ∡ RT.	0°16'55"	1002.66	-1.36	
PT(7) TO 27/26 34/35 BS PT(6) ∡ RT	359°45'00"	853.56	-1.75	

POINT TO POINT	HORIZ ∡	H. DIST	DIFF EL	
① PT (7) TO PT (8)	121°01'32"	1189.16	+10.30	BROW OF HILL
B.S. PT (6) ∡ RT.				
① PT (8) TO PT (9)	121°24'36"	1924.29	+15.43	
B.S. PT (7) ∡ RT.	121°24'36"	1924.29	15.43	
	242°49'12"	1924.29	15.43	
PT (9) TO PT (5)	113°26'37"	336.52	1.07	
BS PT 8 ∡ RT.	113°26'46"	336.52	1.07	
	226°53'14"			
PT (9) T 26/35	108°33'05"	646.83	+1.09	
B.S. PT. 8 ∡ RT	108°33'14"	646.83	1.09	
	217°06'10"			
PT (9) TO PT. (2)	144°36'25"	834.13	7.27	
B.S. PT (8) ∡ RT.	144°36'22"	834.13	7.27	
	289°12'49"			
PT (9) TO 26/25 35/36	191°42'47"	2705.22	18.93	
B.S. PT (8) ∡ RT.	191°42'47"	2705.22	18.93	
	23°25'34'			

POINT → POINT	HORIZ ∡	H. DIST	DIFF EL.
⊙ PT(9) TO 35 ┼ 36	$\boxed{242°39'10''}$	$\boxed{3321.44}$	$\boxed{77.36}$
B.S. PT(8) ∡ RT.	242°39'14"	3321.44	77.36
	125°18'20"		
PT(5) TO PT(2)	$\boxed{181°49'13''}$	$\boxed{408.17}$	$\boxed{-1.15}$
B.S. PT.(9) ∡ RT.			
⊙ 35 ┼ 36 TO 26|25 / 35|36	$\boxed{52°25'05''}$	$\boxed{2650.85}$	$\boxed{-63.99'}$
B.S. PT.(9) ∡ RT.	52°25'01"	2650.85	-63.99'
	104°50'10"		

ROSS T. **SECTION 4** HOT 70° F
JIM 9 (RE SURVEY) BREEZ 10 MPH

TRAVERSE RAN MAY 25, 1984 TO CHECK SECTION 4 SURVEY DATED

AFTER STATE OF UTAH SURVEYORS DISSAGREED W/ 1/4 COR. LOCATION THAT TIES NIEDERHAUSERS PROPERTY TO THE STATE ROAD & TO THE OUR SURVEY

THE BASIS OF BEARING FOR THIS SURVEY IS S. 89°27'18" W. AND IS BETWEEN CACHE COUNTY SURVEY MONUMENTS 4|3 / 9|10 & 2|1 / 11|12 IN T. 11 N. R. 1 E. OF THE SLBM

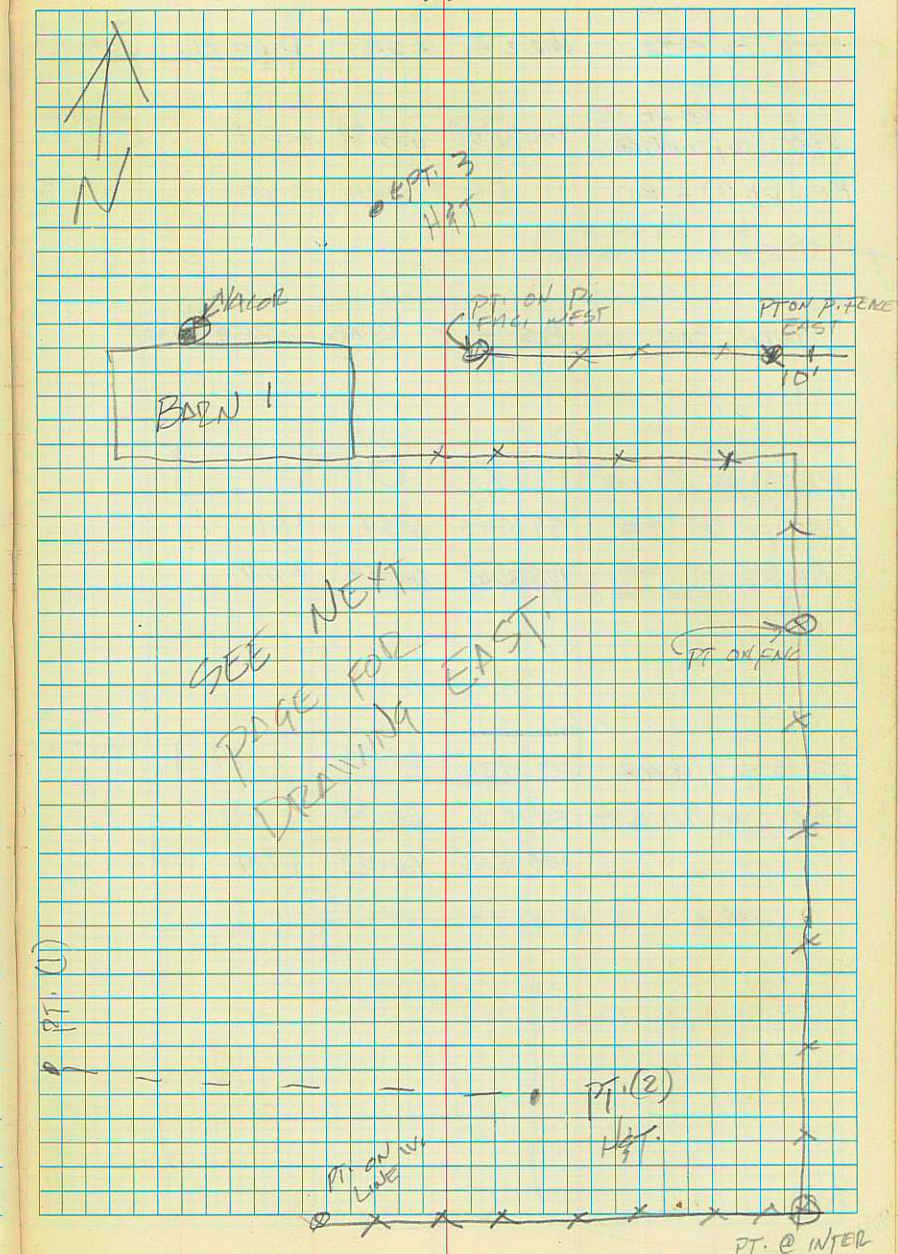
CHIEF DEPUTY SURVEYOR

STA → STATION		HORIZ ∡	H DIST	DIFF EL.
4|3 / 9|10	2|1 / 11|12	0°00'00"	10,614.16	
BACK SIGHT				
4|3 / 9|10 →	R/W MARK	$\boxed{208°40'30"}$	$\boxed{444.77}$	$\boxed{-5.11}$
B.S. 2|1 / 11|12	∡ RT.	208°40'25"	444.78	5.11
		57°20'59"	444.76	5.11
R/W MARK →	AIR PT.	$\boxed{228°21'01"}$	$\boxed{712.32}$	$\boxed{+4.06}$
B.S. 4|3 / 9|10	∡ RT	228°20'49"	712.32	+4.06
		96°42'01"	712.33	+4.06

444.77
444.78

STA →	STA	HORIZ ∡	H. DIST	DIFF EL.
		$\boxed{195°29'18''}$	$\boxed{1346.37}$	$\boxed{+9.17}$
AIR PT TO	PT. 1	195°29'26"	1346.37	+9.17
B.S. Blw MORK	∡ RT.	30°58'36"	1346.37	+9.17
PT (1) →	FENCE S.	358°38'41"	283.07	-5.10
B.S. AIR PT.	∡ RT S.S.			
PT (1) →	FENCE N	203°18'17"	44.26	-1.15
B.S. AIR PT.	∡ RT S.S.			
PT. (1) →	SE WALK	182°10'48"	406.26	-2.49
B.S. AIR	PT. ∡ RT S.S.			
PT. (1) →	N E WALK	181°18'45"	565.18	-2.41
B.S. AIR PT.	∡ RT. S.S.			
PT (1) →	PT. (2)	$\boxed{272°46'54''}$	$\boxed{695.30}$	$\boxed{-3.75}$
B.S. AIR PT.	∡ RT. TRAV		695.33	-3.75
P(2) TO	PT 3	$\boxed{68°30'08''}$	$\boxed{501.03}$	$\boxed{+2.67}$
B.S. PT. 1	∡ RT	68°30'18"	501.03	2.67
		137°00'16"	501.03	

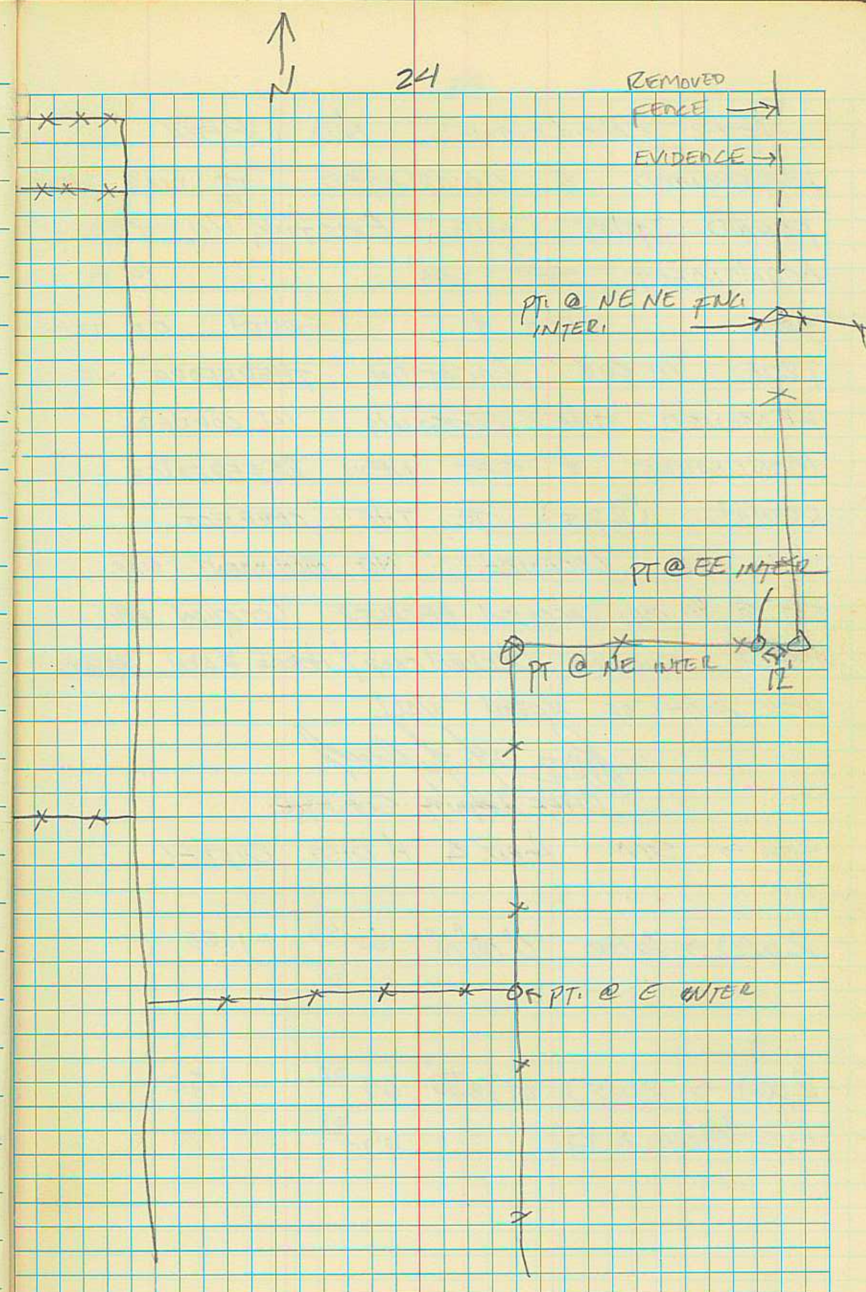
STA → STA	HORIZ ∡	H. DIST	DIFF EL.
PT (2) TO W PICKETT FENCE (WEST)	78°10'35"	439.69	+1.84
B.S. PT(1) ∡ RT.			
PT (2) TO W PICKETT FENCE EAST	87°26'59"	439.63	+ 2.85
B.S. PT.(1) ∡ RT.	(10' EAST TO FNC. COR.		
PT(2) TO PT. ON FNC	91°11'32"	249.26	+2.49
B.S. PT(1) ∡ RT.			
PT (2) TO PT @ INTER.	256°12'05"	137.26	-0.37
B.S. PT.(1) ∡ RT.			
PT.(2) TO PT. ON W. LINE	296°53'30"	157.64	-1.40
B.S. PT(1) ∡ RT			
PT.(2) TO PT @ E. INTER	210°04'00"	450.06	+1.08
B.S. PT. 1 ∡ RT.	SEE NEXT PAGE		
PT(2) TO PT @ NE INTER	151°09'35"	403.23	3.24
B.S. PT(1) ∡ RT.			
PT (2) TO PT EE INTER	158°03'41"	567.54	4.23
B.S. PT.(1) ∡ RT.	12' EAST TO CORNER POST		



STA → STA	HORIZ ∡	H. DIST	DIFF EL.
@ NE NE			
PT. (2) TO PT INTER.	144°00'20"	655.70	+4.91
BS. PT. (1) ∡ RT.	DIST 2' NORTH OF PT.		

TURN BACK TO B.S & I READ 359°59'51"

PT. (3) TO 1/4 COR	VOID		
BS. PT. (2) ∡ RT	54°18'45"	60.54	+1.11
	108°36'42"	60.54	+1.11
PT. 3 TO 1/4 COR	$\boxed{54°19'23"}$	$\boxed{60.55}$	$\boxed{+1.14}$
BS. PT. (2) ∡ RT	54°19'16"	60.56	+1.14
	108°38'46"	60.54	+1.14



AFTER CALCULATIONES HAD BEEN PERFORMED & COMPLETED IT WAS FOUND THAT THE EXISTING 1/4 COR. MONUMENT SET ON 198 WAS WEST & SOUTH OF THE TRUE 1/4 COR LOCATION THEREFORE WE REMOVED THE EXISTING 1/4 CORNER MONUMENT & SET NEW REFERENCE POINTS (RP'S) TO THE CORRECT 1/4 COR LOCATION. NO MONUMENT WAS SET @ 1/4 COR. LOCATION BECAUSE LOCATION FELL INSIDE EXISTING CHICKEN COOP / HORSE BARN APPROX 0.30' SOUTH OF NORTH WALL

[signature]
CHIEF DEPUTY SURVEYOR

STA →	STA	HORIZ ∡	H DIST	DIFF EL
RP(1) →	1/4 COR	0°00'00"	60.46 60.48	+1.25
RP(1) →	RP(2)	61°18'53"	65.02 65.01	−1.52
B.S. 1/4 COR ∡ RT.				

6-4-84 COOL 35°F.

ROSS L. & JIM P WINDY

AFTER RECEIVING FORMAL REQUESTS FROM MERLYN ANDREWS & GLEN LAPRAY TO SET ALL CORNERS COMMON TO SECTIONS 34 & 35 TOWNSHIP 14 NORTH RANGE 1 WEST OF THE S.L.B.&M INCLUDING THE CENTER OF BOTH SECTIONS. WE SET THE FOLLOWING TRAVERSE TO CHECK EXISTING CACHE COUNTY SURVEY MONUMENTS & POSSIBLE CORNER LOCATIONS.

CHIEF DEPUTY SURVEYOR

STA → STA	HORIZ ∡	H. DIST	DIFF. EL.
33/34 4/3 → TP(8)	0°00'00"	4105.22	-69.82
B.S. TP(8) ∡ RT.			
33/34 4/3 → T.P. (1)	$\boxed{81°02'03"}$	$\boxed{5316.70}$	$\boxed{-87.11}$
B.S. TP(8) ∡ RT.	81°02'10"	5316.69	-87 11
	162°04'06"	5316.70	-87 11

STA → STA	Horiz ∡	H. Dist.	Diff El.
TP(1) → TP(2)	207°06'10"	2825.70	−87.11
B.S. 33|34 4|3 ∡ RT.	207°06'11"	2825.69	−87.11
	54°12'19"	2825.70	−87.11
TP(2) → 35|36 2|1	161°43'39"	2636.32	−3.75
B.S. TP(1) ∡ RT.	161°43'42"	2636.31	−3.75
	323°27'17"	2636.33	−3.75
35|36 2|1 → TP (3)	89°17'20"	2646.19	+6.88
B.S. TP.(2) ∡ RT	89°17'20"	2646.19	+6.88
	178°34'40"	2646.18	+6.88
T.P. (3) → T.P. (4)	105°19'28"	2740.12	+5.41
B.S. 35|36 2|1 ∡ RT.	105°19'34"	2740.12	+5.41
	210°38'55"	2740.12	+5.41
	(6-19-84)		
T.P. (4) → T.P. (5)	252°44'38"	2706.33	−11.50
B.S. TP(3) ∡ RT.			
	252°44'45"	2706.34	−11.50
	145°29'16"	2706.32	−11.50

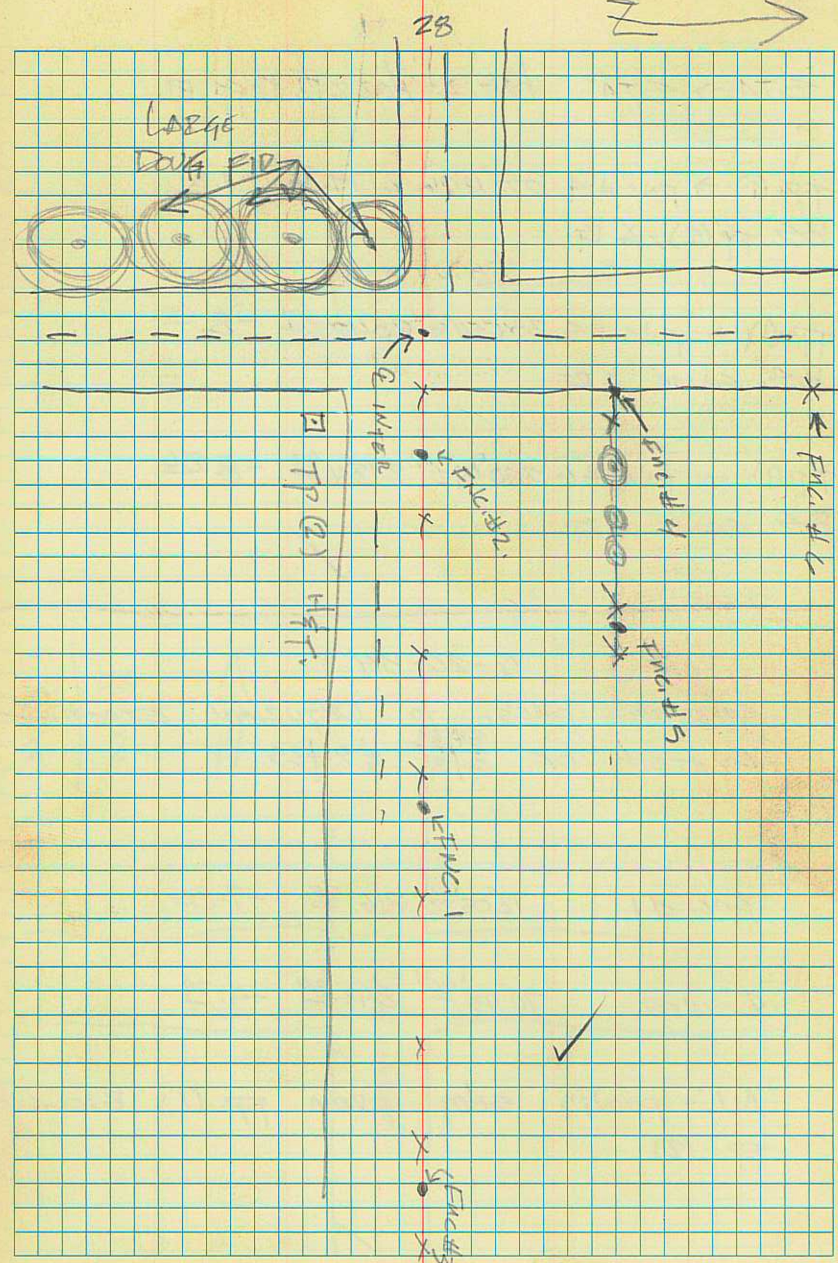
STA. → STA.	HORIZ ∡	H. DIST	DIFF EL
TP(5) TO TP (6)	78°56'33"	651.58	-2.18
B.S. TP(4) ∡ RT	78°56'34"	651.59	-2.18
	157°53'06"	651.58	-2.18
TP(6) TO 27|1 / 34|4	186°53'16"	4525.63	+16.06
B.S. TP.(5) ∡ RT	186°53'15"	4525.50	+14.92
	13°46'32"	4525.64	+16.06
		4525.63	+16.06
27|1 / 34|4 → T.PT.(7)	187°56'56"	2234.65	-2.07
B.S. T.P.(6) ∡RT.	187°56'48"	2234.63	-2.07
	15°53'52"	2234.67	-2.07
T.P.(7) → 28|27 / 35|34	177°52'00"	409.45	-6.80
B.S. 27|1 / 34|4 ∡RT.	177°52'02	409.46	-6.80
	355°44'00"	409.43	-6.80
28|27 / 35|34 TO T.P.(8)	90°15'04"	1211.80	+24.28
B.S. T.P.(7) ∡RT.	90°15'01"	1211.80	+24.28
	180°30'08"	1211.81	+24.28

STA → STA	HORIZ ∡	H. DIST.	DIFF EL.
VOID	180°52'22"	4105.81	+71.03
	1°45'14"	4105.22	+71.03
TP(8) → 33|34 / 4|3	180°52'31"	4105.22	+71.03
B.S. 28|27 / 35|34 ∡ RT.	180°52'32" ##		
	1°45'02"		

(6-20-84)

SHOOTING FENCE LINES TO DETERMIN 1/4 LOCATION.

STA → STA	HORIZ ∡	H. DIST.	DIFF EL.
TP(2) → FNC. (1)	157°12'12"	325.83	-1.18
B.S. TP.(1) ∡ RT			
TP(2) → FNC.(2)	140°07'13"	81.35	-1.09
B.S. TP(1) ∡ RT.			
TP(2) → FNC. #3		2515.76	-5.72
B.S. SAME ∡ RT.	161°45'12"		
TP(2) → ℄ INTER.	48°36'25"	35.16	+0.25
B.S. TP(1) ∡ RT.			



⊕ SECTION CORNER (BOLT)

STA → STA	HORIZ ∠	HORIZ D.	DIFF EL
T.P.(1) → FNC # 4	355°12'26"	2779.59	-7.87
B.S. T.P.(2) ∠ RT.			
T.P.(1) → FNC. #5	354°54'40"	2842.47	-8.05
B.S. SAME ∠ RT.			
T.P.(1) TO FNC. #6	350°49'21"	2734.43	-8.86
B.S. SAME ∠ RT.			

✓

6-20-84

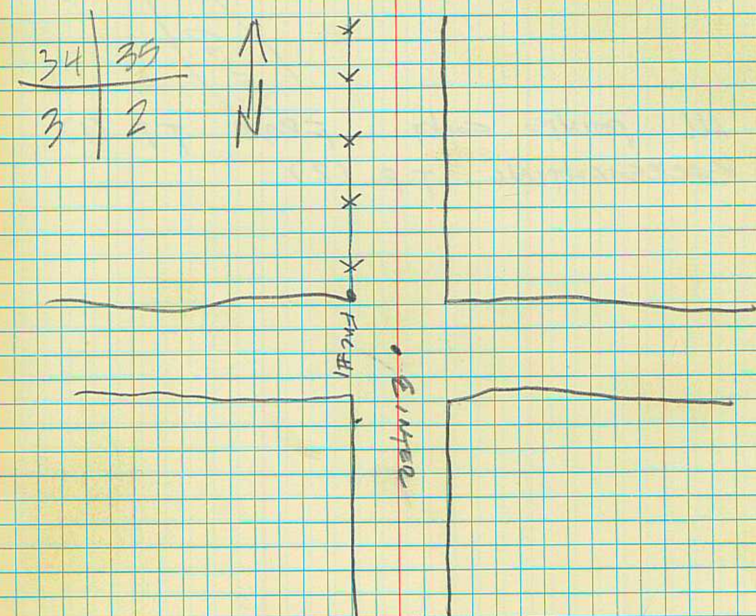
SHOOTING FNC'S. TO DETURMIN EXACT LOCATION OF $\frac{34|35}{3|2}$ & 34+35

FNC. #1	72°05'32"	816.78	-7.86
℄ INTER	70°48'46"	843.24	-5.79

ALL POINTS SHOT FROM T.P. (1) BACKSIGHTING T.P. (2)

✓

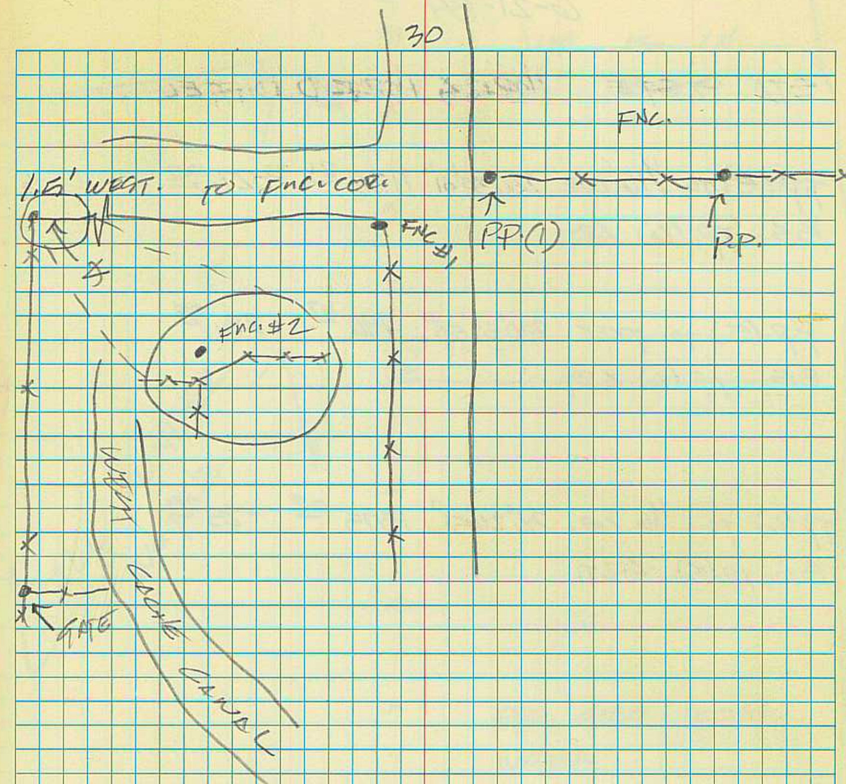
SEE PAGE 28 FOR DRAWING



STA → STA	HORIZ ∠	HORIZ D	DIFF EL	
FNC #1	251°53'04"	1772.70	+0.40	2.5' NORTH 1.5' WEST. TO FNC. COR.
P.P. 1	253°24'37"	1797.80	+0.24	
℄ INTER	252°41'34"	1794.08	+1.47	
FNC #2	215°33'54"	2207.41	-8.43	
GATE	209°00'40"	1921.58	-5.24	

ALL POINTS SHOT FROM T.P. (1)
BACKSIGHTING T.P. (2)

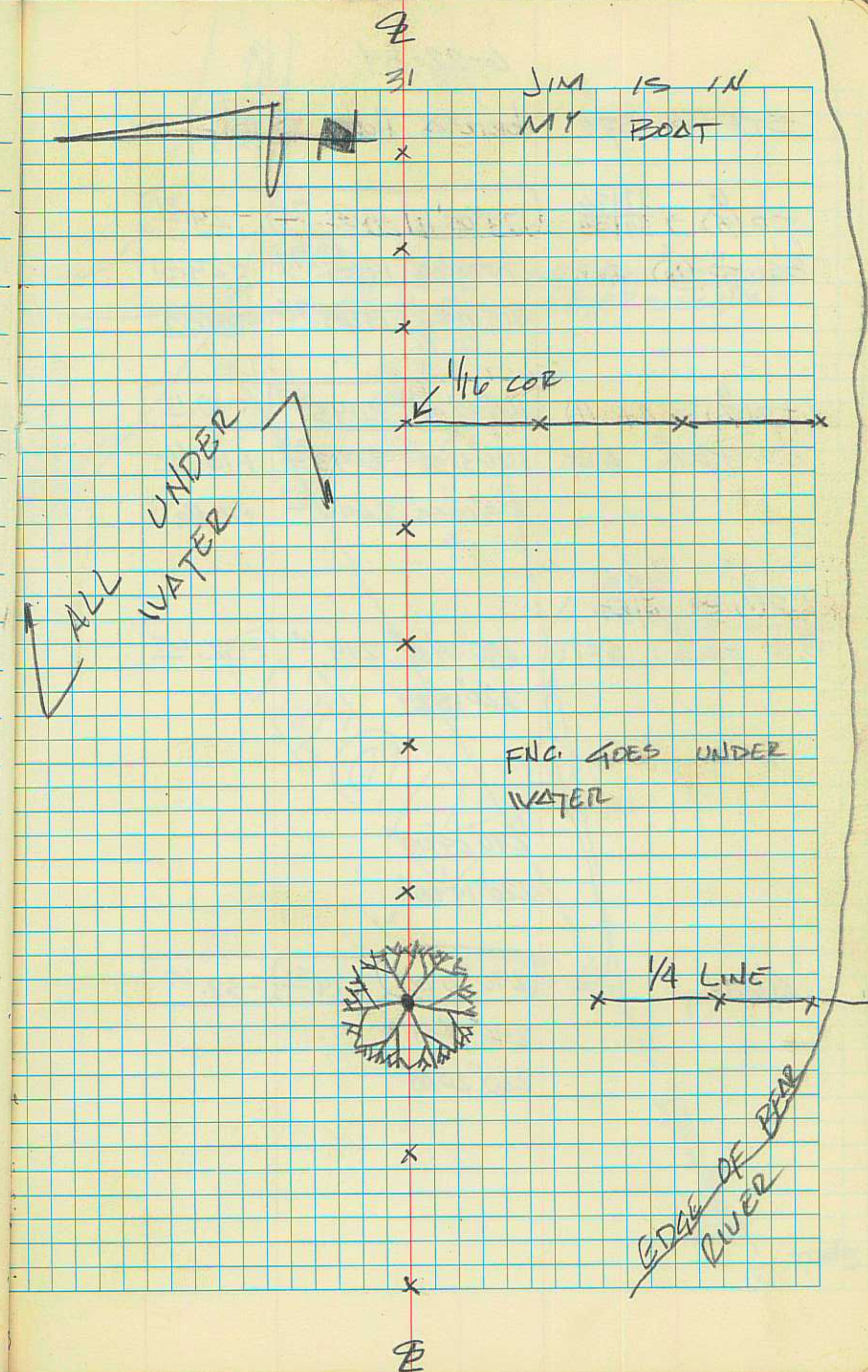
✓



6-21-84

STA → STA	HORIZ ∡	HORZ D.	DIFF EL.
T.P.(5) TO 1/16 COR	236°39'41"	$1120^{\underline{21}}$	$-27.\underline{32}$
B.S. T.P.(6) ∡RT.			
T.P.(5) TO TREE	270°59'50"	$790^{\underline{67}}$	$-28.\underline{32}$
B.S. T.P.(6) ∡RT.			
T.P.(6) TO 1/16 COR.	36°26'51"	$1575^{\underline{02}}$	$-25^{\underline{29}}$
B.S. T.P.(5) ∡RT.			

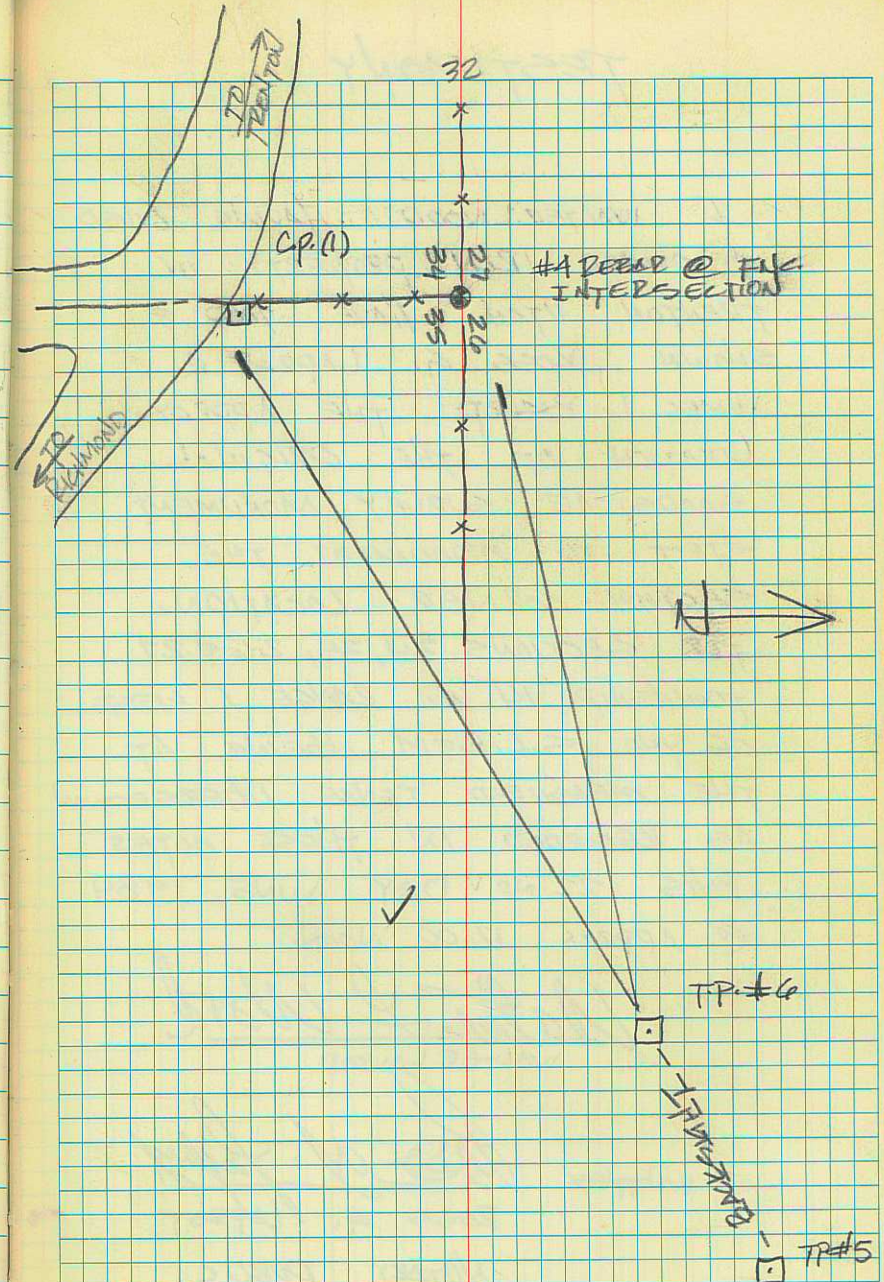
✓



6-22-84

STA → STA	HORIZ ∡	HORIZ D.	DIFF. EL.
T.P. (6, ~~8~~) → 27|26 / 34|35	$\boxed{174°05'13''}$	$\boxed{1965.76}$	$\boxed{-24.31}$
B.S. T.P.(5, ~~8~~) ∡ RT.	174°05'06"	1965.74	-24.31
	348°10'26"	1965.78	-24.32
T.P.(6, ~~8~~) → C.P. (1)	$\boxed{166°32'58''}$	$\boxed{2043.37}$	$\boxed{+10.16}$
B.S. T.P.(5, ~~8~~) ∡ RT.	166°32'52"	2043.38	+10.16
	333°05'55"	2043.37	+10.16
CP(1) → 27|26 / 34|35			
B.S. T.P.(6) ∡ RT.	290°09'29"	274.61	-32.65
	220°18'29"		
	290°09'45"		
	220°19'00"		
GOOD	$\boxed{290°10'00''}$	$\boxed{274.61}$	$\boxed{-32.65}$
	290°10'00"		
	220°20'00"		

VOID



TESTIMONY

I WALTER L. WOOD HAVING LIVED & OWNED REAL PROPERTY IN TRENTON UTAH. HAVE TOLD & SHOWN ROSS G. LAPRAY & JAMES L. BISHOP THE APPROX. LOCATION OF THE ORIGINAL SANDSTONE SURVEY MONUMENT SET TO MONUMENT THE SECTION CORNER LOCATION. FOR SECTIONS 34, 35, 26 & 27 TOWNSHIP 14 N, RANGE 1 WEST. OF THE S.L.B&M BEING AT THE MEASURED FENCE INTERSECTION AS RECORDED IN THESE NOTES THIS 22 ND DAY JUNE, 1984 @ APPROX 12:00 NOON.

Walter L Wood

WALTER L. WOOD

WITNESS Ross G. Lapray

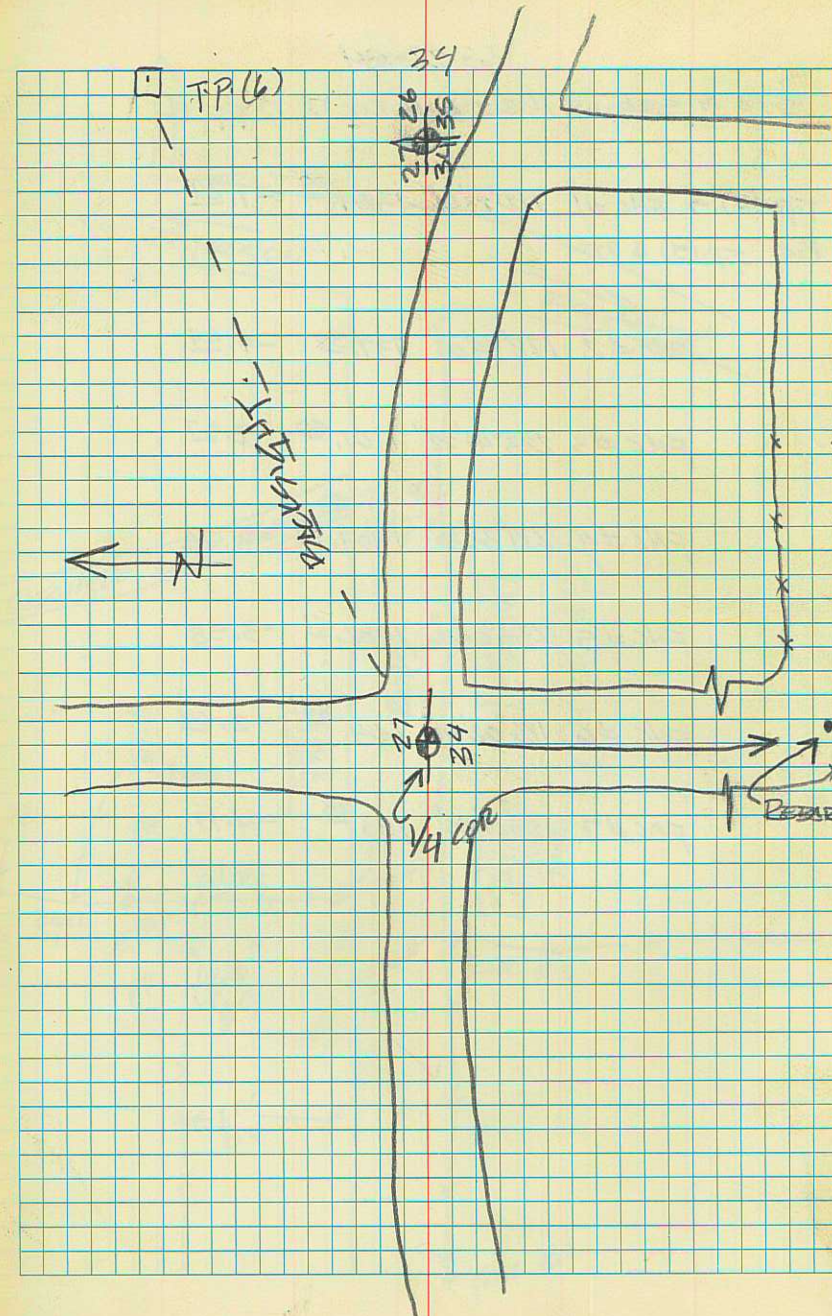
ROSS G. LAPRAY.

NOTARY PUBLIC.

6-22-84

STA → STA	HORIZ ∠	HORIZ D.	DIFF EL
27 1 / 34 1/4 → REBAR	$\boxed{97°11'15''}$	$\boxed{2671.52}$	$\boxed{-6.90}$
B.S. T.P.(6) & RT.	97°11'15"	2671.52	-6.90
	194°22'29"	2671.52	-6.90

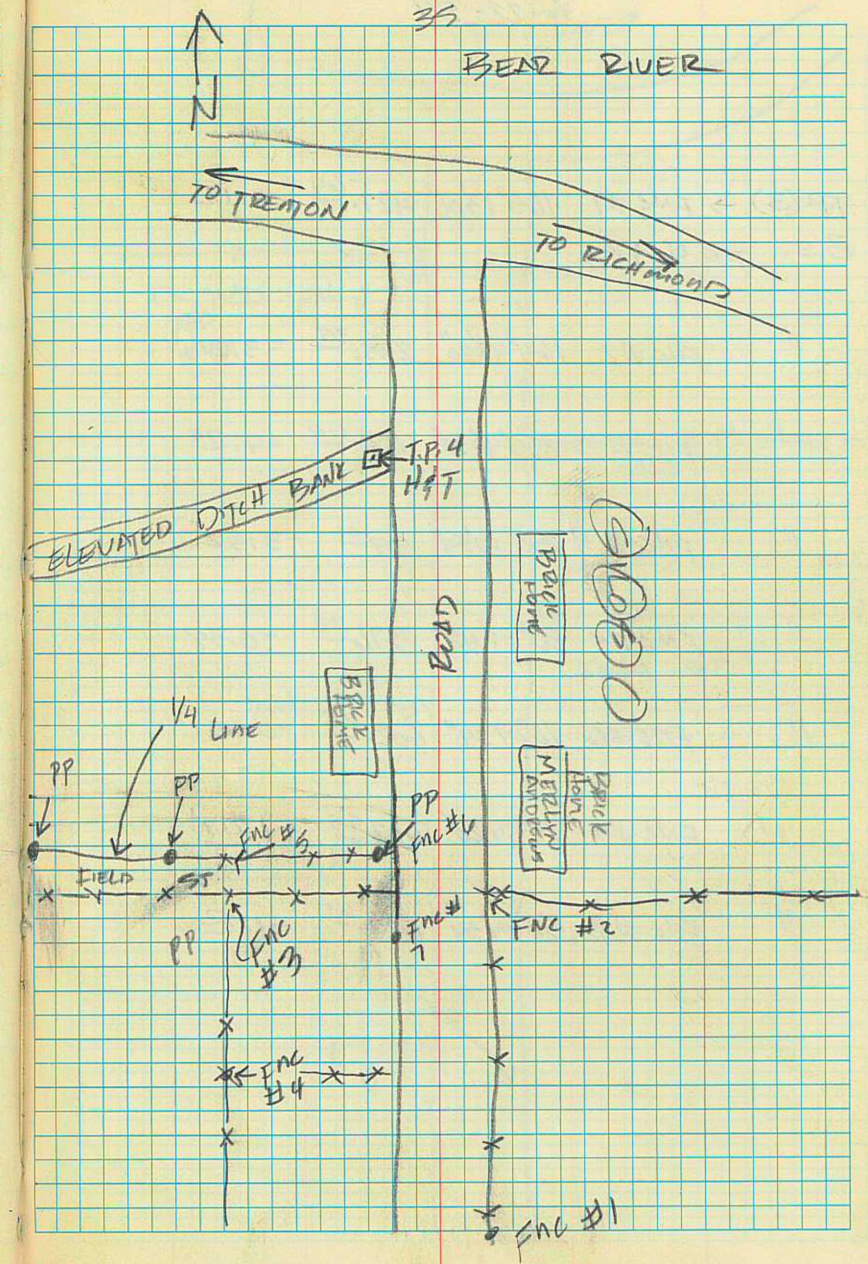
✓



6-22-84

STA → STA	HORIZ ∡	HORIZ D.	DIFF EL
T.P.(4) → FNC #1	180°23'14"	1324.09	-7.24
B.S. T.P.(5) ∡ RT			
FNC #2	178°39'05"	737.33	-4.44
FNC #3	233°49'32"	1101.50	-3.57
FNC #4	219°33'30"	1407.83	-3.72
FNC #5	235°05'36"	1082.51	-3.58
FNC #6	186°02'41"	664.84	-2.62
FNC #7	185°01'55"	743.23	-4.19

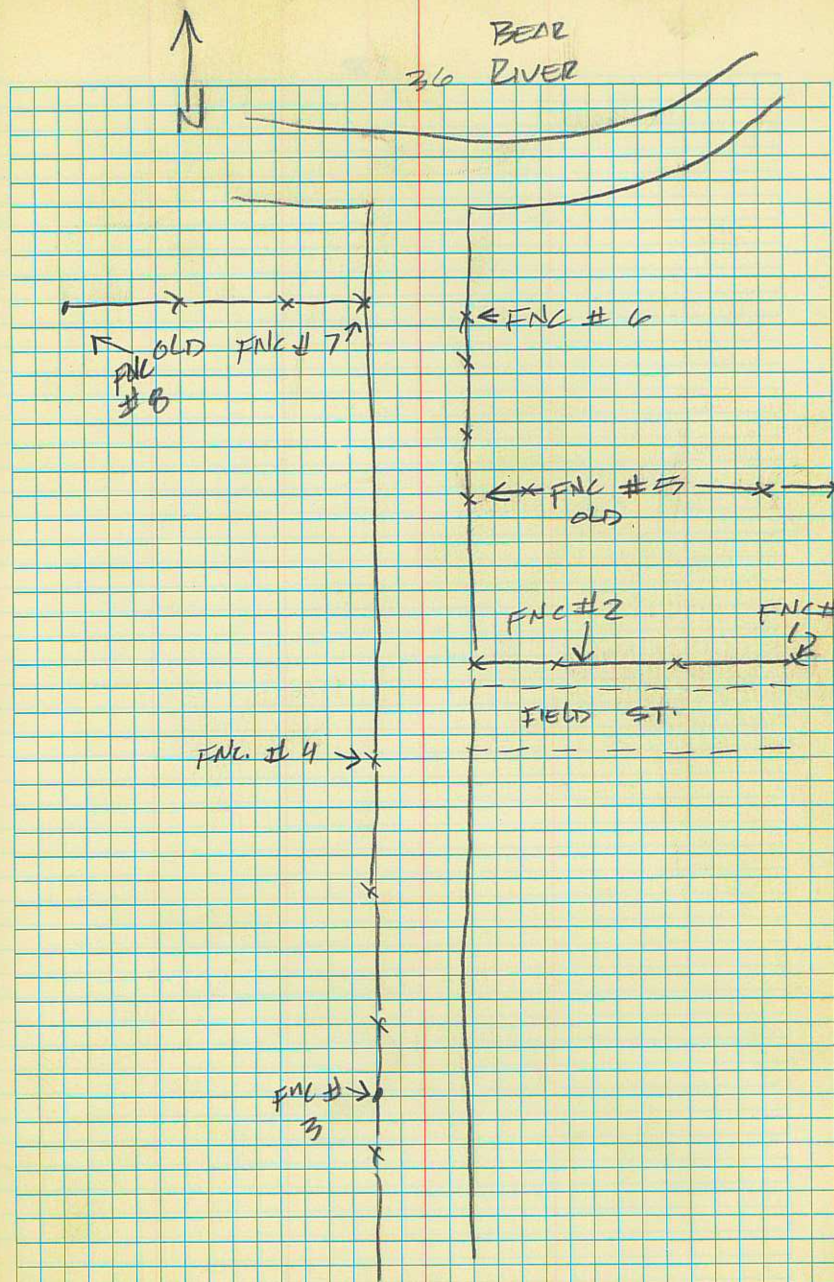
✓



6-22-84

T.P. (3) →	FNC #1	165°13'00"	427.64	-2.12
B.S. T.P 4 & Bt.				
"	FNC #2	164°43'20"	225.35	-3.21
"	FNC # 3	255°40'22"	485.64	-4.24
"	FNC # 4	258°31'54"	99.01	-3.32
"	FNC #5	80°07'42"	376.78	-0.34
"	FNC #6	78°09'34"	602.26	-0.45
"	FNC #7	74°54'20"	662.95	-1.47'
"	FNC #8	58°04'54"	694.67	-1.32

✓



ROSS ⊼⊼ | 8-9-84
JIM ♀ | WINDY 30 mph

SECTION 15 T. 13 N R 2 W
JUNCTION HILLS
SURVEY

AFTER A REQUEST FROM MR. RONALD MAUGHEN TO SET THE N.W. 1/4 OF SECTION 15, OF TOWNSHIP 13 N. R. 2 W OF THE S.L.B.&M.. IT WAS DISCOVERED THAT TO DO SO WOULD REQUIRE A BREAKDOWN OF THE ENTIRE SECTION USING THE MONUMENTED CACHE COUNTY & BOX ELDER COUNTY BOUNDRY MONUMENTS, (#'s 20 & 21) FOR A BASIS OF BEARING OF S. 19° 06' 07" E.

THUS THIS SURVEY WAS COMMENCED THIS 9TH DAY OF AUGUST, 1984 BY ROSS G. LAPRAY & JAMES L. BISHOP

Ross G. Lapray
CHIEF DEPUTY SURVEYOR

STA → STA	HORIZ ∠	H DIST	DIFF EL	
CP(20) → CP 21	0°00'00"	890.44	-70.01	
B.S. CP.21 ∠ RT.		890.44	-70.01	
CP (20) → CP(18)	$\boxed{162°02'53"}$	SLOPE 4016.87	V. ∠ 86°37'30"	VERT ∠ & SLOPE DIST.
B.S. CP.(21) ∠ RT	162°02'59"	4016.85		
	324°05'46"	4016.88		
CP (20) → PT. (1)	$\boxed{147°53'05"}$	SLOPE D. 4452.10	VERT ∠ 85°43'20"	
B.S. CP(21) ∠ RT	147°53'09"	4452.09	PT. FURTHEST SOUTH	
	295°46'11"	4452.11		
CP (20) → PT(2)				
B.S. CP(21) ∠ RT	$\boxed{149°18'48"}$	4539.11	85°35'50"	PT. NORTH
	149°18'46"	4539.10		
	298°37'35"	4539.12		
CP (21) → PT 22	$\boxed{178°23'36"}$	$\boxed{2098.36}$	$\boxed{-166.11}$	
B.S. CP(20) ∠ RT.	178°23'35"	2098.37	-166.11	
	356°47'11"	2098.36	-166.11	
CP. (21) → FNC#1	340°24'35"	580.27	-11.83	
B.S. CP(20) ∠ RT.				

HORIZ DIST = 4,009.90 DIFF EL = ±236.48

HORIZ DIST = $\boxed{4,439.70}$ DIFF EL + $\boxed{332.09}$

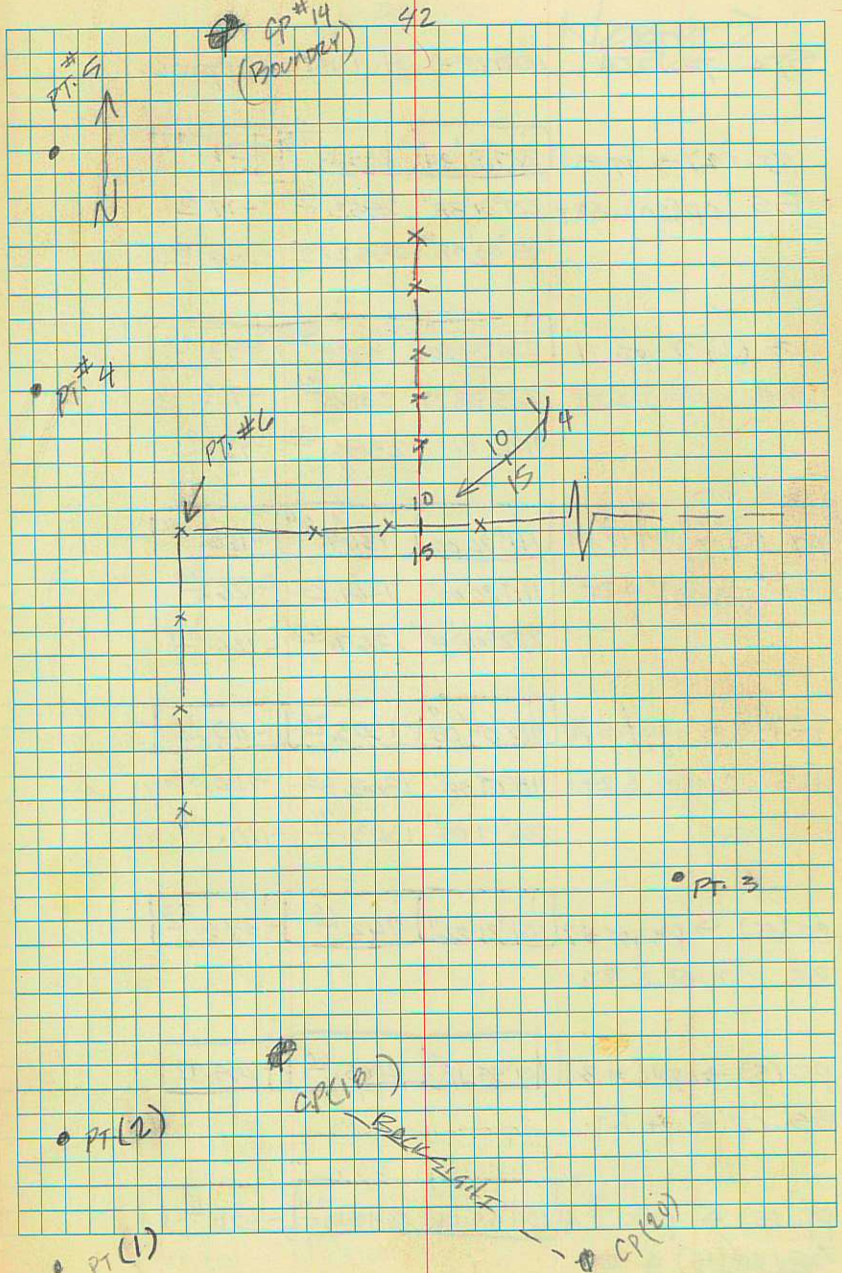
HORIZ DIST $\boxed{4525.72}$ DIFF EL = $\boxed{+348.46}$

STA → STA	Horiz ∡	H. Dist	Diff El	
Cp(21) → 15|14 / 22|23	28°25'42"	497.96	-19.56	
B.S. Cp(20) ∡ Rt.	28°25'47"	497.98	-19.56	
	56°51'28"	497.95	-19.56	
PT 22 → PT 23	286°30'46"	3132.31	-162.20	
B.S. Cp 21 ∡ Rt.	286°30'44"	3132.29	-162.20	
	213°01'32"	3132.33	-162.21	
Pt 22 → 16|15 / 21|22	313°47'30"	Slope 6071.78	Vert ∡ 85°43'00"	→
B.S. Cp(21) ∡ Rt.	313°47'32"	6071.78		
	267°34'59"	6071.78		
PT 23 to 16|15 / 21|22	230°58'34"	3572.18	+616.68	
B.S. PT. 22 ∡ Rt.	230°58'35"	3572.18	+616.68	
	101°57'08"	3572.18	+616.68	
Cp(18) → PT. 3	310°05'50"	2352.68	-291.65	
B.S. Cp(20) ∡ Rt.	310°05'41"	2352.70	-291.62	
	260°11'39"	2352.66	-291.69	
Cp(18) → PT 4	186°59'26"	2427.75	+17.74	South Pt.
B.S. Cp(20) ∡ Rt.	186°59'26"	2427.75	+17.74	
	13°58'55"	2427.76	+17.74	

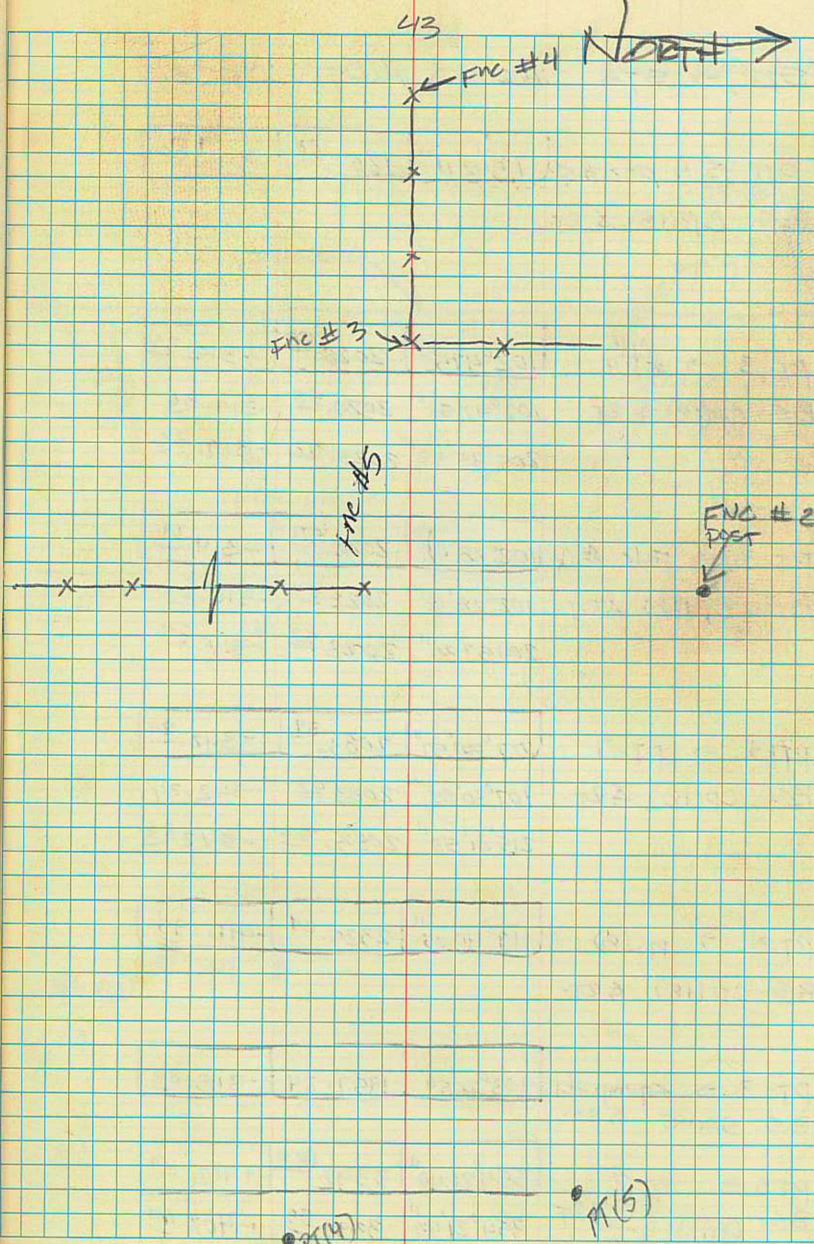
Horiz Dist 6,054.82 Diff El +453.49'
Possible Location

Possible Location

STA → STA	HORIZ ∡	H. DIST	DIFF EL	
CP(18) → PT. 5	$\boxed{190°23'22''}$	$\boxed{2542.^{26}}$	$\boxed{+31.84}$	NORTH PT.
B.S. CP(20) ∡ RT	190°23'20"	2542.26	+31.84	
	20°46'44"	2542.25	+31.84	
CP(18) → PT. 6	$\boxed{219°33'30''}$	$\boxed{1800.^{03}}$	$\boxed{-216.^{71}}$	
B.S. CP(20) ∡ RT				
CP(18) → 10/15 1/4	$\boxed{225°44'15''}$	$\boxed{1818.^{41}}$	$\boxed{-215.^{38}}$	
B.S. CP(20) ∡ RT	225°04'06"	1818.41	-215.38	
	91°28'30"	1818.41	-215.38	
PT 3 TO 10/15 1/4	$\boxed{39°46'35''}$	$\boxed{2828.^{48}}$	$\boxed{+76.25}$	
B.S. CP(18) ∡ RT	39°46'~~35~~ 41"	2828.48	+76.25'	
	79°33'10"	2828.48	+76.25	
CP(18) → CP(14)	$\boxed{194°35'58''}$	$\boxed{2758.^{73}}$	$\boxed{+44.^{02}}$	
B.S. CP(20) ∡ RT.	194°35'55"	2758.74	+44.02	
	29°11'55"	2758.72	+44.02	
PT.(2) → CP(14)	$\boxed{229°30'54''}$	$\boxed{2828.^{18}}$	$\boxed{-67.^{73}}$	
B.S. CP(20) ∡ RT.	229°30'46"	2828.18	-67.73	
	99°01'47"	2828.19	-67.73	

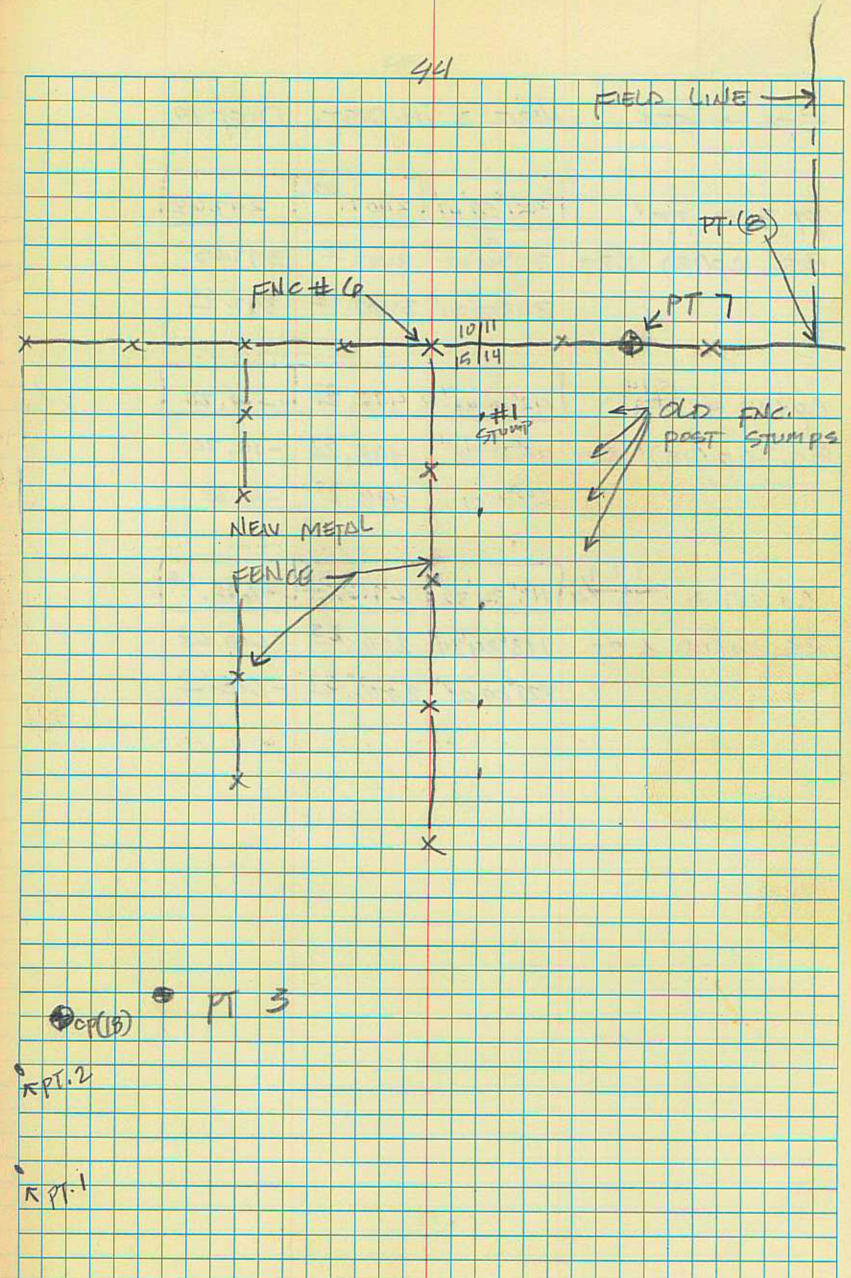


STA TO STA	HORIZ ∡	H. DIST.	DIFF. EL.
PT. (2) → PT (5)	227°31'34"	2552.48	-79.84
B.S. CP(20) ∡ RT.	227°31'38"	2552.46	-79.84
	95°03'08"	2552.49	-79.84
PT. (2) → PT. 4	225°33'20"	2386.31	-93.94
B.S. CP(20) ∡ RT	225°33'27"	2386.31	-93.94
	91°06'40"	2386.30	-93.94
PT. (2) → 16+15 1/4	111°20'00"	1369.64	-126.09
B.S. CP(20) ∡ RT	111°20'00"	1369.63	-126.09
	222°40'00"	1369.65	-126.09
PT. (1) → 16+15 1/4	118°07'03"	1303.75	-110.08
B.S. CP(20) ∡ RT.	118°07'08"	1303.75	-110.08
	236°14'05"	1303.76	-110.08
PT. (5) → FNC POST #2	161°21'26"	943.18	-343.33
B.S. CP(18) ∡ RT.			
PT (5) → FNC #3	101°55'18"	2005.60	-255.97
B.S. CP(18) ∡ RT.			
PT. (5) → FNC. #4	104°55'46"	2494.24	-238.17
B.S. CP(18) ∡ RT.			



CP(14)

STA → STA	HORIZ ∡	H. DIST.	DIFF EL.
PT. 5 → FNC #5	79°42'11"	1287.60	-350.86
B.S. CP(18) ∡ RT.			
PT. 3 → 10|11 / 15|14	102°47'55"	2025.58	-319.36
B.S. CP(18) ∡ RT	102°47'50"	2025.58	-319.36
	205°35'49"	2025.57	-319.36
PT 3 → FNC. #6	102°28'48"	2022.54	-314.65
B.S. CP(18) ∡ RT.	102°28'40"	2022.54	-314.65
	204°57'36"	2022.53	-314.65
PT. 3 → PT. 7	107°30'57"	2083.39	-342.24
BS CP(18) ∡ RT.	107°30'55"	2083.42	-342.24
	215°01'53"	2083.36	-342.23
PT 3 → PT. (8)	119°40'05"	2325.24	-411.95
BS. CP (18) ∡ RT.			
PT. 3 → STUMP #1	103°20'54"	1957.34	-318.88
B.S. SAME ∡ RT.			
PT 3 → PT. 2	354°21'40"	3392.88	+402.69
BS. CP(18) ∡ RT	354°21'43"	3392.89	+402.69
	348°43'19"	3392.86	+402.68



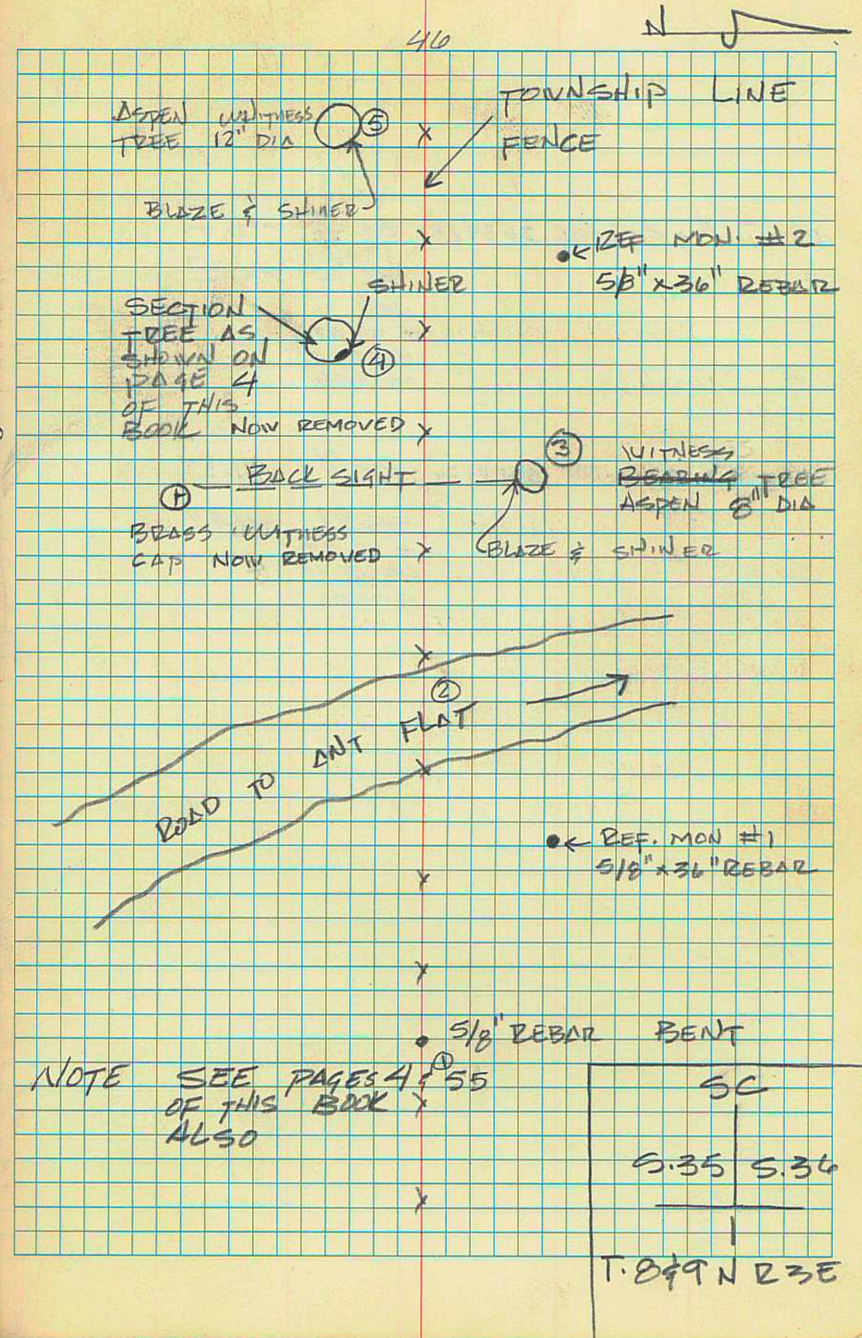
STA → STA	HORIZ ∡	H. DIST.	DIFF EL.
PT 3 → PT 1	351°59'47"	3407.22	397.66
B.S. CP(18) ∡ RT.	351°$\overset{5}{4}$9'42"	3407.18	397.65
	343°59'34"	3407.26	397.66
CP (21) → $\frac{15\vert 14}{22\vert 23}$	43°10'31"	498.37	−19.20
B.S. CP (18) ∡ RT	43°10'28"	498.37	−19.20
	86°21'01"	498.37	−19.20
CP (21) → $\frac{1\,4\,1}{23}/4$	113°34'32"	2916.38	−618.68
B.S. CP(18) ∡ RT.	113°34'34"	2916.38	−618.68
	227°09'03"	2916.37	−618.68

8-24-84 Ross ⊼
Hot 80°F. Jim P
CALM

ON AUG. 24 1984 THIS OFFICE RECIEVED A TELEPHONE CALL FROM MOUNTAIN FUEL SUPPLY SAYING THAT OUR BRASS WHITTNESS CAP TO 35/36 STANDARD CORNER T. 9 N R 3 EAST OF THE SLB&M WOULD HAVE TO BE RE-REFRANCED BEFORE A TREE CUTTING CREW CLEARED THE AREA FOR A PROPOSED 20" HIGH PRESSURE MAIN GAS LINE. WE ARRIVED @ THE SITE JUST IN TIME TO STOP THE CUTTER FROM FALLING THE SECTION TREE & WE REF. IT TO NEW POINTS OUT OF THE PIPELINES R/W

Ross [signature]
CHIEF DEPUTY SURVEYOR

PT. TO	PT.	HORIZ ∠	H. DIST	DIFF EL
BRASS WHT. MON	BACKSIGHT	0°00'00"	64.68'	-11.21
BRASS WHT. MON	REF MON # 2	326°00'19"	93.17' / 93.14	+8.39'
BRASS WHT MON	REF MON #1	63°07'26"	75.58' / 75.61	+1.87'



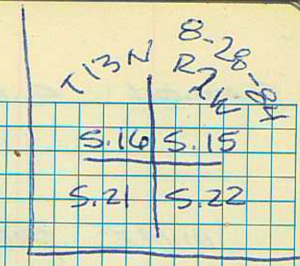
REF MON #1 → SEC. TREE	26°34'28"	84.35	-5.47	
		84.36'	-5.47	
		NOTE + 40 mm OFFSET IN MIRRORS		
REF MON #2 → SEC. TREE	355°03'34"	55.91	-11.84	
		55.89	-11.84	
		+ 40 mm OFFSET IN MIRRORS		

8-29-84 S.W. COR SEC. 15 T-13N. R2WEST

BEING COMMISSIONED BY RONALD MOUGHAN A LOCAL DEVELOPER TO SET ALL CORNERS ON SEC. 15 OF ABOVE MENTIONED TOWNSHIP & RANGE. A MOUND OF STONE ALONG A FENCE LINE OF A ESTIMATED AGE OF 70 YEARS WAS FOUND APPROX 212' WESTERLY FROM A DISTINCT 3 WAY FENCE INTER. BOTH POINTS WERE SHOT & TIED TO OUR SURVEY. THE MOUND OF STONE WAS ACCEPTED AS THE CORNER LOCATION & A 30" x 2" GALV. STEEL PIPE W/ A 3 1/4" ALUM COUNTY SURVEY CAP. WAS SET & MARKED AT THE CORNER LOCATION A MOUND OF SANDSTONE 20" x 20" x 8" TALL WAS RAISED ARROUND THE MONUMENT BEING APPROX. NEAR AN OLD FENCE POST.

CAP IS MARKED AS SHOWN ON TOP OF NEXT PAGE

R.P 1 → CAP
RP 2 → CAP
RP 3 → CAP.



8-30-84 S.E. COR. SEC. 15, T.13 N. R.2 W.

WHILE PREFORMING THE SURVEY OF SECTION 15 T.13 N. R.2.W WE FOUND A DISTINCT 2 WAY FENCE INTERSECTION. THIS FENCE INTER. WAS SHOT & TIED TO OUR SURVEY. & IT WAS DETURMINED TO BE THE BEST POSSIBLE LOCATION FOR THE SECTION CORNER $\frac{15|14}{22|23}$ OF SAID TOWNSHIP & RANGE. SAID CORNER IS MONUMENTED W/A 30" x 2" GALV. STEEL PIPE WITH A 3 1/4" ALUM CACHE COUNTY SURVEY CAP MARKED AS SHOWN TOP OF NEXT PAGE

A MOUND OF STONE 20" x 20" x 6" ABOVE THE GROUND WAS RAISED AT THE MONUMENTS BASE. MONUMENT IS 20" NORTH EASTERLY DISTANT FROM THE FENCE INTERSECTION CORNER POST & IS APPROX 497.96' NORTHERLY FROM CACHE COUNTY BOUNDRY MONUMENT # 21 LOCATED BY THE UTAH POWER & LIGHT MICROWAVE TOWER. SEE SEC. 15 SURVEY

9-7-84 ROSS PRESTON

27 | 26
34 | 35 T.9N. R3E & JIM

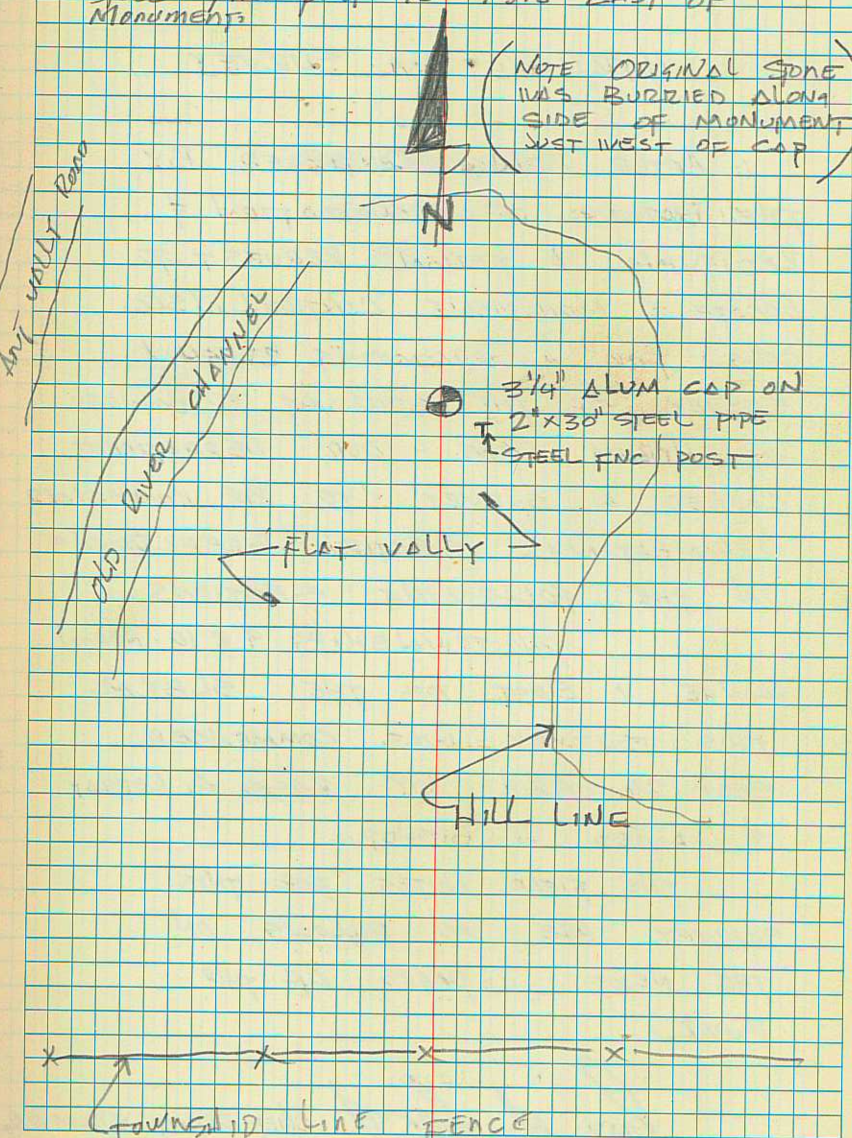
DURING THE SURVEY OF THE SECTION LINE BETWEEN SEC. 35 & 36 OF THIS SAME TOWNSHIP & RANGE SHOWN ON PAGES 7 & 8 OF THIS BOOK THE ORIGINAL STONE MARKING THE LOCATION OF ~~THE~~ SECTIONS 26, 27, 34, & 35 WAS FOUND

THE STONE WAS IN GOOD CONDITION & PLAINLY MARKED (2 NOTCHES EAST & 1 NOTCH SOUTH WITH A "X" ON EAST SIDE) & UNDISTURBED.

A 3¼" ALUM SURVEY CAP SET ON A 2"×30" GALV. STEEL PIPE & LEFT 7½" ABOVE GROUND LEVEL. 2 STONES WERE LAID @ MONUMENTS BASE WAS USED TO MONUMENT THIS CORNER

MONUMENT IS LOCATED APPROX 100' EASTERLY TO THE TOE OF SLOPE OF A SMALL HILL & IS TIED BY MEASUREMENT & BEARING TO A REBAR APPROX FT. NORTHERLY AS SHOWN ON

PAGE 7 & 8 OF THIS BOOK A STEEL FNC. POST IS 15½" EAST OF MONUMENT.



9-28-84 ROSS ⊼ ♡

COOL 40°F WNDY 50 MPH. JIM P

HYRUM DAM SURVEY

AFTER BEING CONTACTED BY THE BUREAU OF RECLAMATION & RECIEVING A FORMAL REQUEST TO LOCATE & MONUMENT CONTROLL, (SEC. CORS.) FOR A UPCOMMING BUREAU SURVEY OF THE SPILLWAY & BOUNDRY OF HYRUM DAM OUR DEPARTMENT CAUSED A SURVEY TO BE COMMENCED DELINEATING SECTION BREAKDOWNS IN THE FOLLOWING SECTIONS IN TOWNSHIPS 9 & 10 NORTH RANGE 1 EAST OF THE SLB&M. THIS SURVEY WAS COMMENCED SEPT 26, 1984 BY ROSS G. LAPRAY & JAMES L. BISHOP.

THE FIELD NOTES FOR THIS SURVEY ARE AS FOLLOWS ON THE NEXT PAGES OF THIS BOOK.

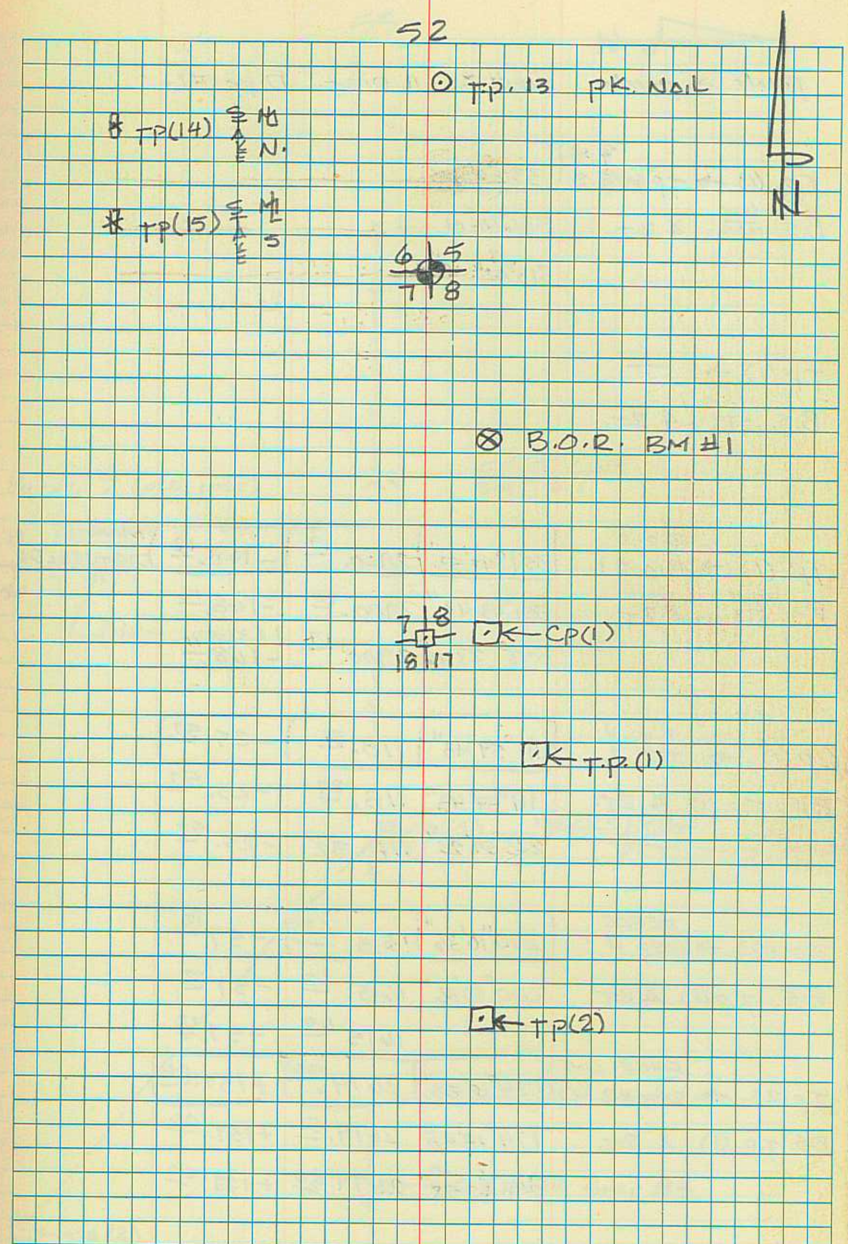
Ross G. Lapray CHIEF DEPUTY SURVEYOR

BEREAU

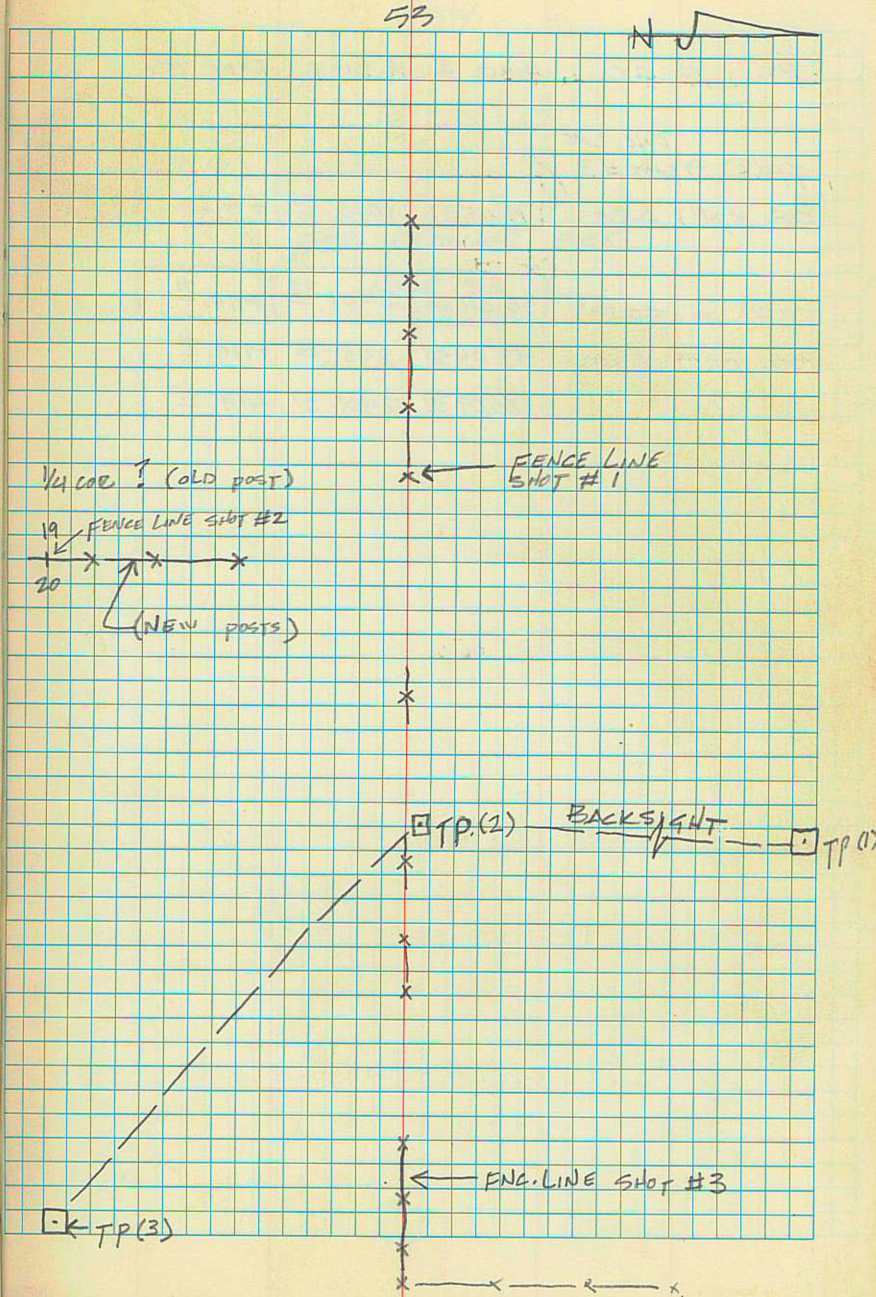
FOR DRAWING

SEE PAGE 52

POINT → POINT		HORIZ ∠	H. DIST	DIFF EL.	
T.P. (1) →	6 5 / 7 8	$\boxed{0°00'00"}$			BACK SIGHT
T.P. (1) →	T.P. (2)	$\boxed{196°43'28"}$	$\boxed{3747.62}$	$\boxed{-97.57}$	
B.S. 6 5 / 7 8	∠ RT.	196°43'28"	3747.40	-97.57	
		33°26'55"	3747.43	-97.57	
T.P. (1) →	C.P. (1)	$\boxed{344°28'30"}$	$\boxed{1830.28}$	$\boxed{-130.73}$	
B.S. 6 5 / 7 8	∠ RT.	344°28'32"	1830.29	-130.73	
		328°56'59"	1830.25	-130.73	
T.P. (1) →	7 8 / 18 17 M T	$\boxed{341°07'40"}$	$\boxed{1877.83}$	$\boxed{-155.49}$	
B.S. 6 5 / 7 8	∠ RT.	341°07'39"	1877.83	-155 49	
		322°15'20"	1877 83	-155.49	
T.P. (1) →	TP (13) PK	$\boxed{3°31'20"}$			
B.S. 6 5 / 7 8	∠ RT.	~~3°31'12"~~	>VOID		
		~~7°02'42"~~			
		3°31'17"	>GOOD		
		7°02'39"			
T.P. (1) →	TP (14) S.M.N.	$\boxed{337°00'30"}$			
B.S. 6 5 / 7 8	∠ RT.	337°00'30"			
		314°01'00			



POINT →	POINT	HORIZ ∡	H. DIST.	DIFF EL.	
T.P. (1) →	TP (5) S M 5	$\boxed{336°46'05''}$			
B.S. 6|5 / 7|8	∡ RT	336°46'01''			
		313°03'(02)'08''			
TP (1) →	+				
B.S. 6|5 / 7|8	∡ RT.				
T.P. (1) →	B.O.R BM #1	$\boxed{351°43'53''}$	$\boxed{2900.^{19}}$	$\boxed{-168.^{12}}$	MON. DISTURBED
B.S. 4|5 / 7|8	∡ RT.	351°43'49''	2900.20	-168.12	
		343° 27'46''	2900.17	-168.11	
CP (1) →	7|8 / 18|17 H & T.	$\boxed{111°59'43''}$	$\boxed{118.^{31}}$	$\boxed{-25.^{57}}$	
BS. T.P. (1)	∡ RT.	111°59'43''	118.29	-25.57	
		223°59'25''	118.32	-25.57	
T.P. (2) →	FENCE LINE SHOT #1	$\boxed{260°10'36''}$	$\boxed{1615.^{64}}$	$\boxed{-57.^{12}}$	
B.S. T.P. (1)	∡ RT	260°10'36''	1615.62	-57.12	
			1615.66	-57.12	
TP (2) →	FENCE LINE SHOT #2 1/4 cor?	$\boxed{174°18'55''}$	$\boxed{2674.^{56}}$	$\boxed{+137.^{06}}$	
B.S. T.P. (1)	∡ RT.	174°18'50''	2674.56	+137.06	
		348°37'(57)'01''(58'')	2674.56	+137.06	



PT. TO PT.	HORIZ ∡	H. DIST.	DIFF EL.
T.P.(2) → FNC LINE SHOT #3			
B.S. T.P.(1) ∡ RT	$\boxed{79°03'37''}$	$\boxed{1008.\underline{99}}$	$\boxed{+19.68}$
	$\boxed{93°04'49''}$	$\boxed{2401.\underline{32}}$	$\boxed{+119.\underline{71}}$
TP(2) TO T.P.(3)			
B.S. T.P.(1) ∡ RT.	93°04'50''	2401.$\underline{32}$	+119.$\underline{71}$
	186°09'39''	2401.31	+119.$\underline{71}$

FOR DRAWING SEE
PAGE 53

REFERENCE MONUMENTS SET SO THAT WITNESS & ORIGINAL MONUMENTS COULD BE DISTURBED ALONG THE PROPOSED RIGHT-OF-WAY OF MOUNTAIN FUEL SUPPLY COMPANIES NEW 20" H.P. MAIN LINE. NOTE: SEE FIELD NOTES ON PAGES 4 & 46 OF THIS BOOK FOR MEASUREMENTS TAKEN TO PLACE BRASS CAP WITNESS MON.

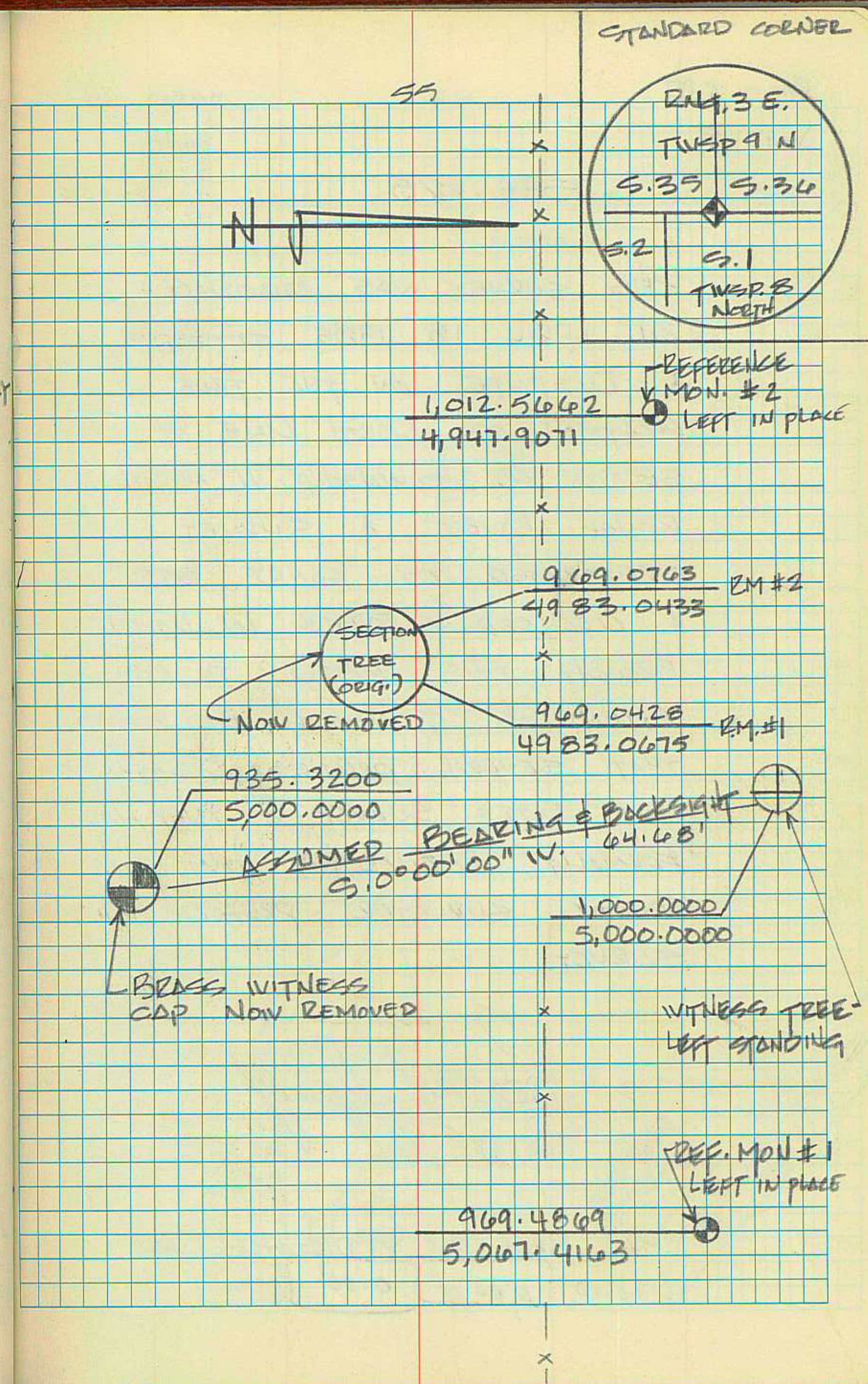
REFERENCE MONUMENTS SET NOW ARE 5/8" (#5) x 36" STEEL REINFORCING BARS DRIVEN TO 4" TO 6" ABOVE THE GROUND LEVEL. NO CAP WAS PLACED ON TOP OF REINFORCING BAR.

NOTE: COORDINATES ARE COMMON TO REFERENCING ONLY.

[signature]

3-26-85

55



ROSS T

JIM

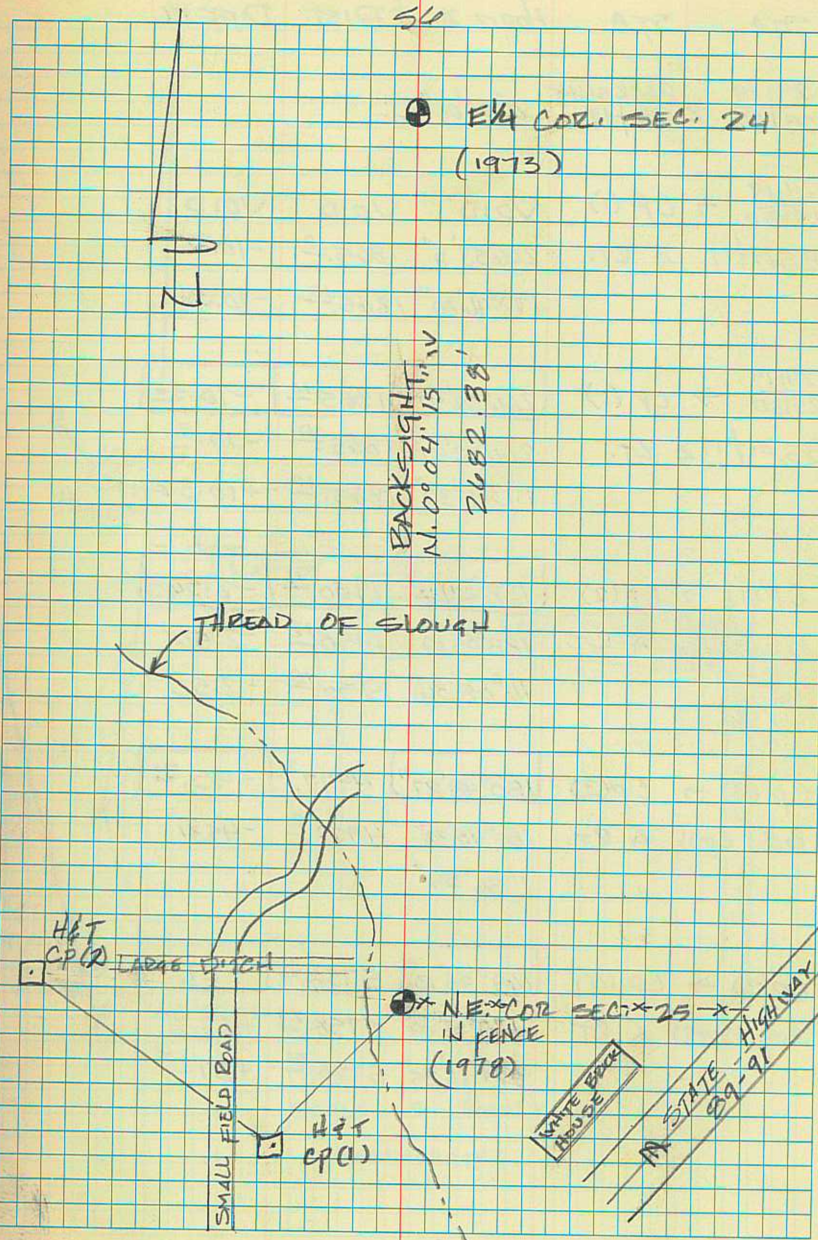
WARM 60° F

WINDY

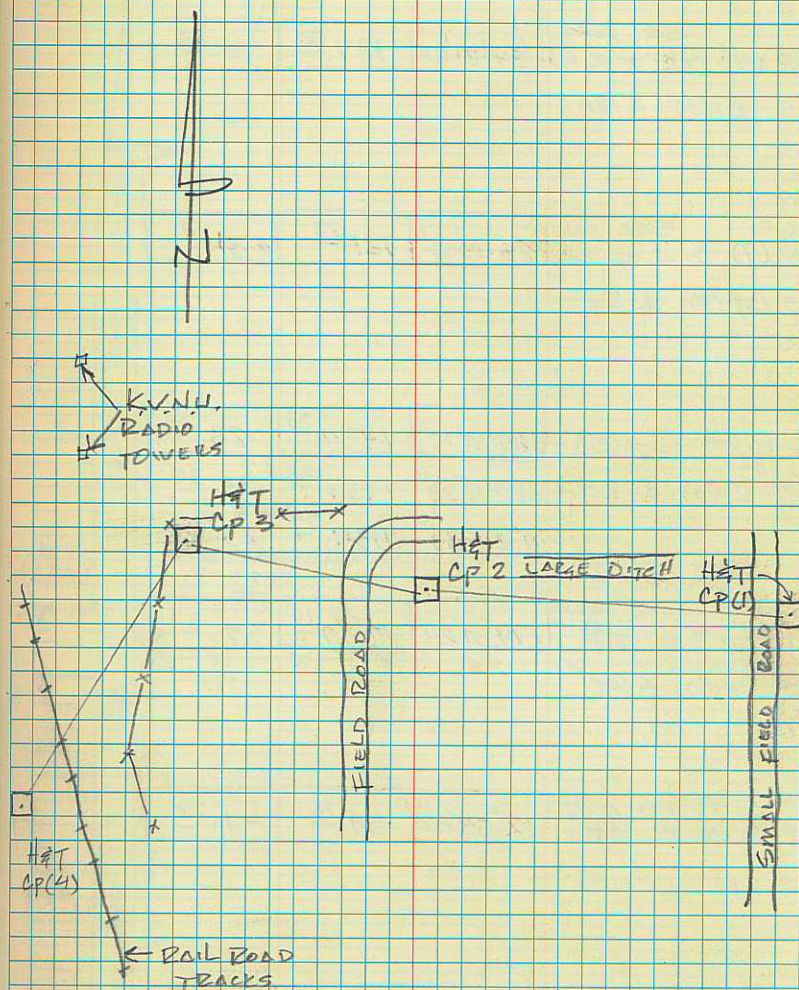
SEC. 25

THIS SURVEY WAS COMMENCED ON. APRIL 18, 1985 TO SETTLE A DISPUTE ON THE TRUE LOCATION OF NORTH LINE OF SECTION 25 TOWNSHIP 11 NORTH, RANGE 1 WEST. A SURVEY PREFORMED BY RANDY BOTT, A LICENSED SURVEYOR IN UTAH BROUGHT THIS MATTER TO OUR ATTENTION. IT SHOULD BE NOTED THAT SEVERAL PARTIES DISAGREED WITH BOTT'S SURVEY & THEY HAVE FORMALLY REQUESTED THAT THE COUNTY SURVEYOR PREFORM THIS SURVEY.

NOTE: MEAN ∡'s & DISTANCES ARE CIRCLED $\boxed{0°00'00"}$ $\boxed{0.00'}$

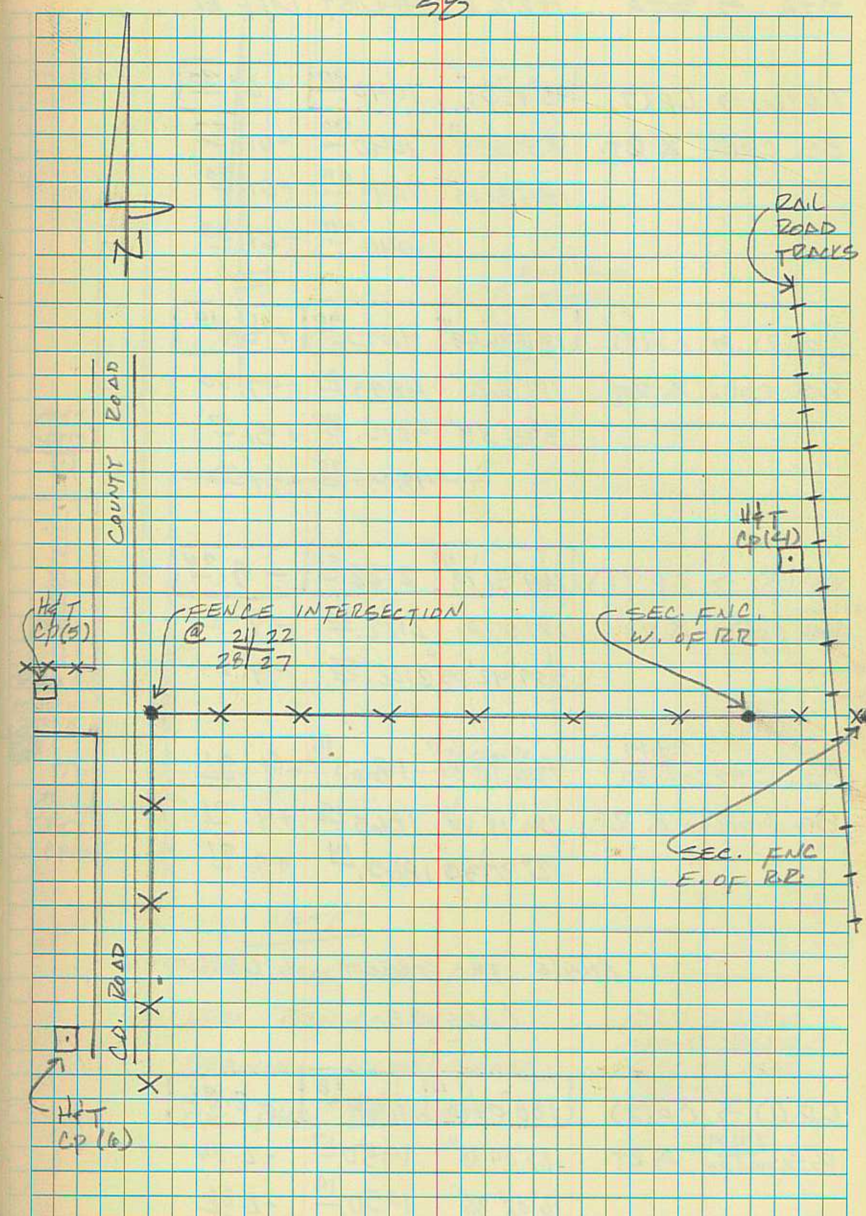


STA	STA	HORIZ ∡	H DIST.	DIFF EL
24|19 / 25|30 →	BACKSIGHT 24+19	0°00'00"		
24|19 / 25|30 →	CP (1)	VOID	VOID	VOID
BS. 24+19	∡ RT.	266°53'11"	1865.10	-10.36
		173°46'00"	1865.10	-10.36
24|19 / 25|30 →	CP (1)	$\boxed{266°52'47"}$	$\boxed{1865.10}$	$\boxed{-10.36}$
BS. 24+19	∡ RT.	266°52'47"	1865.10	-10.36
		173°45'34"	1865.10	-10.36
CP(1) →	CP(2)	$\boxed{188°04'18"}$	$\boxed{1950.11}$	$\boxed{-2.56}$
BS. 24|19 / 25|30	∡ RT.	188°04'19"	1950.12	-2.56
		16°08'36"	1950.10	-2.56
Cp (2) →	Cp(3)	$\boxed{180°48'27"}$	$\boxed{4977.21}$	$\boxed{-45.31}$
B.S. Cp(1)	∡ RT.	180°48'32"	4977.21	-45.31
		1°36'54"		
Cp(3) →	CP (4)	$\boxed{169°38'13"}$	$\boxed{5758.30}$	$\boxed{+27.10}$
BS Cp(2)	∡ RT	169°38'09"	5758.29	+27.10
		339°16'25"	5758.31	+27.10



SCALE IS BADLY EXADGERATED

STA →	STA	HORIZ ∡	H. DIST.	DIFF. EL.
CP (4) →	SEC. FENCE E. OF R.R.	54°21'42"	197.90	-0.03
BS. CP(3) ∡ RT				
CP (4) →	SEC. FNC. W. OF R.R.	88°55'59"	121.22	+3.34
BS CP(3) ∡ RT				
CP (4) →	CP (5)	180°12'17"	1434.78	23.35
BS. CP(3) ∡ RT.		180°12'23"	1434.78	23.35
		0°24'33"	1434.79	23.35
CP (4) →	FNC. INTER @ 21|22 28|27	179°39'24"	1377.16	22.37
BS. CP(3) ∡ RT				
CP(5) →	FNC. INTER. @ 21|22 28|27	12°55'06"	59.16	-1.22
BS. CP (4) ∡ RT.				
CP(5) →	CP6	90°14'31"	493.92	15.86
BS. CP(4) ∡ RT.		90°14'39"	493.94	15.86
		180°29'01"	493.89	15.85



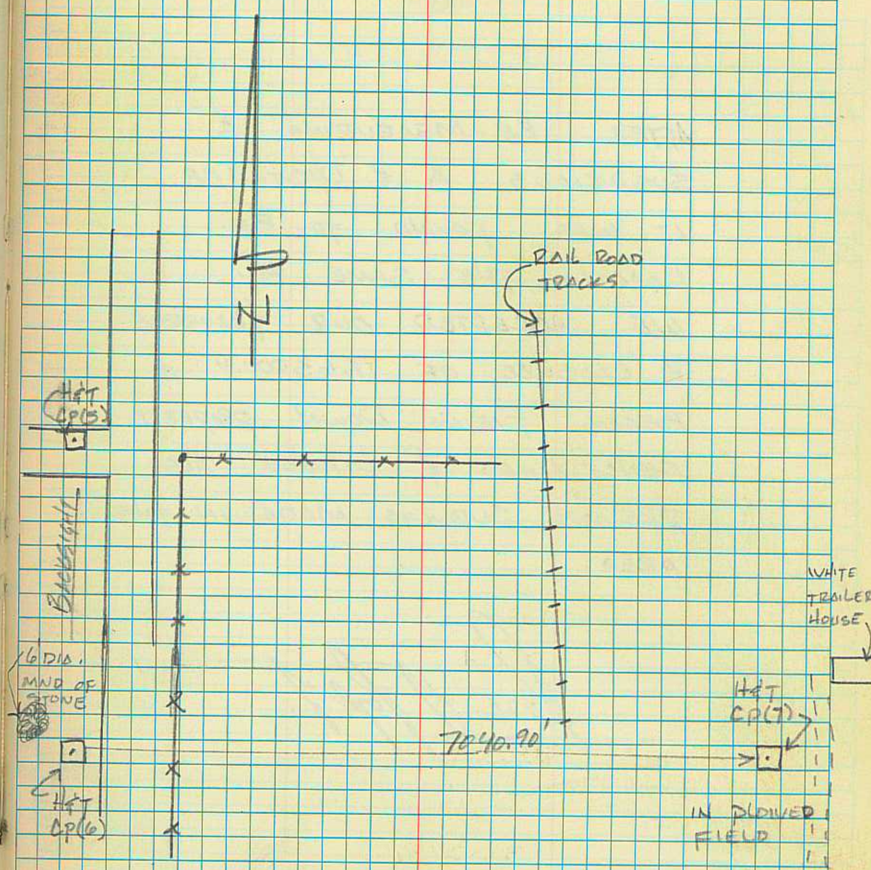
STA → STA		HORIZ ∡	H. DIST	DIFF EL
CP(6) → CP(7)		93°15'37"	7040.90	-61.35
BS. CP(5) ∡ RT.		93°15'35"	7040.90	-61.57
		186°31'15"	7040.98	-61.35
			7040.90	-61.35
CP(7) → CP(8)		181°36'49"	4895.90	+51.10
BS. CP(6) ∡ RT		181°36'50"	4895.87	+47.56
		3°13'38"	4895.89	+51.10
			4895.93	+51.10
CP(8) → CP(1)		169°51'18"	2122.53	-9.24
BS CP(7) ∡ RT.		169°51'20"	2122.53	-9.24
		339°42'35"	2122.53	-9.24
CP(1) → 24|19 / 25|30		186°18'45"	1865.15	+9.91
BS CP(8) ∡ RT		186°18'48"	1865.15	+9.91
		12°37'30"	1865.14	+9.91

1.33 MI.

ANGLE TO CORRECT 1:63000.00
CLOSURE

STA → STA		HORIZ ∡	H. DIST	DIFF EL
CP(1) → CP(2)		188°04'18"	1950.18	-2.86
BS 24|19 / 25|30 ∡ RT.		188°04'18"	1950.17	-2.86
		16°08'36"	1950.19	-2.86

SAME ∡ CLOSURE



NOTE:
SEE NEXT PAGE FOR MORE DETAILS ON DRAWING LOCATED EAST OF THIS DRAWING

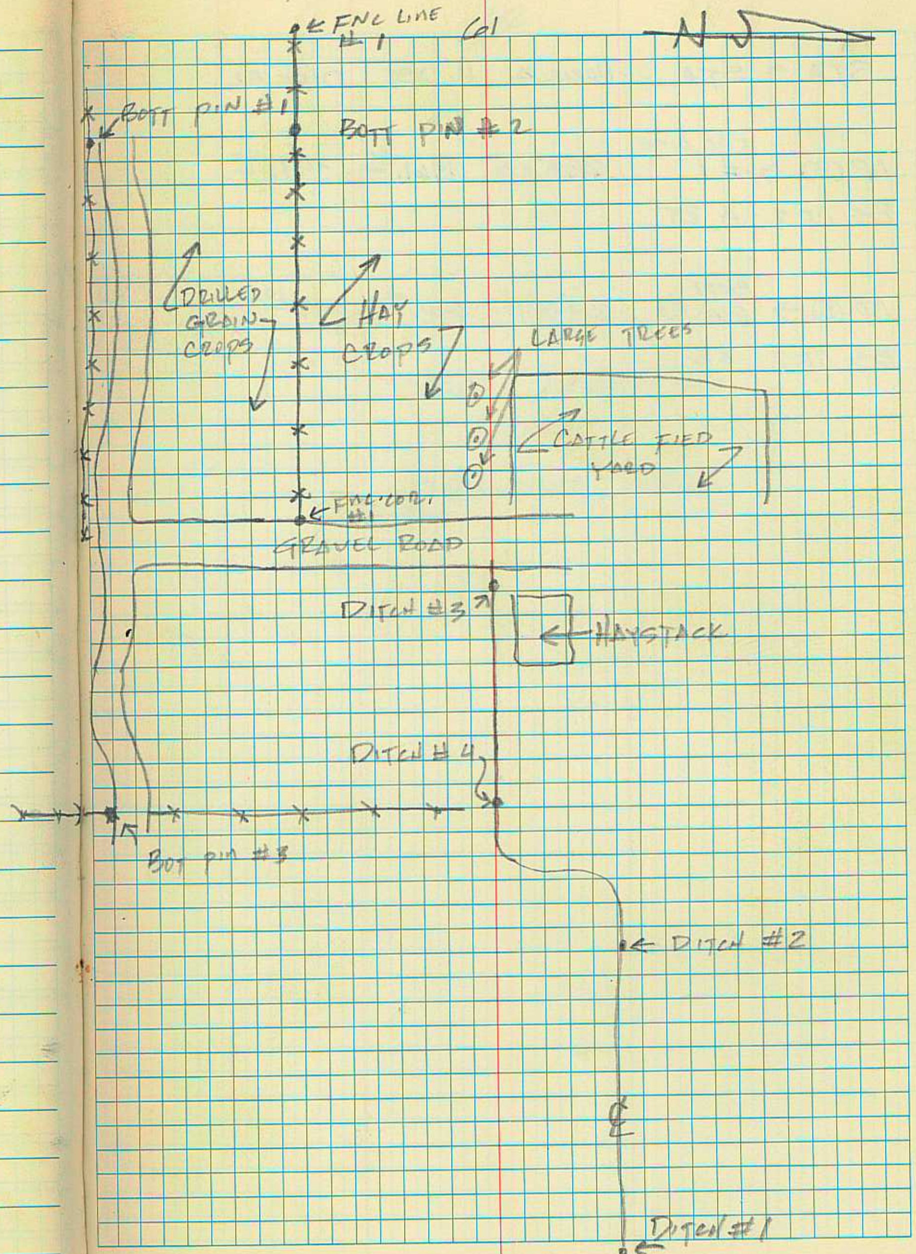
GOLD COLORED METAL BLDG. EAST OF MAP DRAWING

AFTER RE-MEASURING A
SUSPICIOUS ∡ & DISTANCE
IT WAS FOUND TO BE
EXACTLY THE SAME ∡.
WE ACCEPTED OUR TRAVERSE
& CLOSURE OF 1:63000.0 &
BEGAN TIEING DOWN PROPERTY
FENCE LINES & DITCHES ALSO
PREVIOUS SURVEYS MADE IN THIS
AREA.

4-24-85 CALM

SEC. 25 CONT. 50° F

STA → STA		HORIZ ∡	H. DIST	DIFF. EL
CP(8) →	DITCH #1	50°00'22"	$1486^{\underline{48}}$	$-10.\underline{79}$
BS CP(2)	∡ RT			
CP(8) →	DITCH #2	4°10'10"	$587^{\underline{55}}$	$-11.^{\underline{64}}$
B.S. CP(2)	∡ RT			
CP(8) →	DITCH #3	287°20'05"	$837.^{\underline{11}}$	$-27.\underline{72}$
B.S. CP(2)	∡ RT.			
CP(8) →	DITCH #4	297°10'15"	$672^{\underline{06}}$	$-25.^{\underline{28}}$
BS CP(2)	∡ RT			
CP(8) →	FNC COR #1	263°38'01"	$742^{\underline{39}}$	$-28.^{\underline{29}}$
B.S. CP(2)	∡ RT			
CP(8) →	BOT PIN #1	245°47'55"	$1610^{\underline{55}}$	$-26.^{\underline{06}}$
BS CP(2)	∡ RT.			
CP(8) →	BOT PIN #2	258°52'30"	$1600^{\underline{46}}$	$-37.^{\underline{31}}$
BS CP(2)	∡ RT.			



STA →	STA	HORIZ ∡	H. DIST	DIFF EL
CP (8) →	ENC LINE #1	258°11'20"	1961.50	-47.40
BS. CP 2	∡ RT			
CP (8) →	BOTT PIN #3	214°38'40"	640.21	-17 10
BS CP 2	∡R			

SEE DRAWING
ON
PREVIOUS PAGE

HYRUM DAM SURVEY

RE-STARTED WITH NEW INFORMATION AFTER ABANDONING 1 UNCOMPLETED LARGE 8 MILE TRAVERSE AS DESCRIBED ON PAGES 51 TO 54 OF THIS BOOK.
WE CAUSED THE FOLLOWING POINTS TO BE SHOT & A SURVEY OF SAME TO BE COMMENCED THIS 2 ND DAY OF MAY, 1985

[signature]
CHIEF DEPUTY SURVEYOR

NOTE: ALL CIRCLED INFORMATION SHOWS "MEEN" MEASUREMENTS

ROSS ⊼ ♂
JIM ♀

HOT 80° F.
BREEZY 5 MP[H]

STA. →	STA.	HORIZ ∡	H. DIST	DIFF EL.
U.S.C.G.S.(1) →	CP(1)	0°00'00"		
BACKSIGHT				
			SLOPE DISTANCE	VERTICAL ANGLE
USCGS #1 →	┼ H&T	$\boxed{334^\circ 03' 40''}$	$5783^{\underline{65}}$	$88^\circ 3\cancel{5}4' 55''$
B.S. CP(1)	∡ RT	334°03'40"	$5783^{\underline{65}}$	
		308°07'20"	$5783.^{\underline{54}}$	
USCGS #1 →	$\frac{12 \mid 17}{13 \mid 18}$ BRASS CAP	33°17'00"	$4884.^{\underline{55}}$	89°30'25"
B.S. CP(1)	∡ RT.	33°17'05"	$4884^{\underline{62}}$	
		66°34'00"	$4884^{\underline{64}}$	
			$4884^{\underline{51}}$	
USCGS #1 →	$\frac{1}{4}$, 12 ┼ 7 BRASS CAP	$\boxed{55^\circ 12' 14''}$	$\boxed{2571.^{\underline{43}}}$	$\boxed{-47.^{\underline{81}}}$
B.S. CP(1)	∡ RT.	55°12'15"	$2571.^{\underline{42}}$	$-47.^{\underline{77}}$
		110°24'28"	$2571.^{\underline{44}}$	$-47.^{\underline{85}}$
USCGS #1 →	$\frac{1 \mid 6}{12 \mid 7}$ BRASS CAP	VOID	$\boxed{1931.^{\underline{40}}}$	$\boxed{-125.^{\underline{51}}}$
B.S. CP(1)	∡ RT.	126°59'04"	$1931.^{\underline{39}}$	$-125.^{\underline{51}}$
		253°57'35"	$1931^{\underline{41}}$	$-125.^{51}$

← THIS SHOT HORIZ ∡, SLOPE DISTANCE & VERTICAL ∡
HORIZ. D. = 5781.88

← THIS SHOT HORIZ ∡ SLOPE DISTANCE & VERTICAL ∡
HORIZ D = 4,884.37'

THIS SHOT ALL HORIZONTAL INFORMATION.

STA	STA	HORIZ ∡	H. DIST	DIFF EL.
USCGS #(1) →	1/6 2/7 BRASS CAP	$\boxed{126°59'07"}$	SEE PREVIOUS PAGE FOR DIST.	
B.S. CP (1)	∡ RT	126°59'14"		
		253°58'14		
USCGS #(1) →	6/7 FNC INTER	$\boxed{241°13'44"}$	$\boxed{1232.72}$	$\boxed{-80.44}$
B.S. CP (1)	∡ RT.	241°13'44"	1232.75	-80.44
		122°27'28"	1232.69	-80.44
USCGS # (1) →	6/5 7/8 BRASS CAP	$\boxed{269°25'04"}$	$\boxed{3638.40}$	$\boxed{-80.90}$
B.S. CP (1)	∡ RT.	269°25'05"	3638.50	-80.90'
		178°50'07"	3638.31	-80.90
CP (1) →	USCGS #1	$\boxed{0°00'00"}$	$\boxed{188.84}$	$\boxed{-2.09}$
BACKSIGHT			188.84	-2.09'
			188.85	-2.09'
CP (1) →	1/12 6/7 BRASS CAP	$\boxed{311°12'31"}$	$\boxed{2050.63}$	$\boxed{-128.41}$
B.S. USCGS #1	∡ RT.	311°12'25"	2050.63	-128.41
		262°25'02"	2050.63	-128.41

STA →	STA	HORIZ ∡	H DIST	DIFF EL
CP (1) →	1/4 12 ┼ 7 BRASS CAP	238°48'35"	2468.60	-50.68
BS USCGS #1	∡ RT.	238°48'30"	2468.60	-50.68
		117°36'50"	2468.61	-50.68
CP (1) →	12, 7 / 13 ┼ 18 BRASS CAP	214°32'30"	4727.81	+40.57
BS. SAME	∡ RT.	214°32'35"	4727.81	+40.57
		69°04'58"	4727.80	+40.57
CP (1) →	┼ H & T	153°13'23"	5613.04	141.05
BS. SAME	∡ RT.	153°13'19"	5613.02	141.05
		306°26'45"	5613.06	141.05
CP (1) →	6, 5 / 7 ┼ 8 BRASS CAP	VOID	3645.34	-83.11
BS. SAME	∡ RT.	~~86°26'56"~~	3645.34	-83.11
		~~172°53'34"~~	3645.33	-83.11
		86°27'01"		
		86°27'01"		
		172°54'02"		
CP (1) →	1/4 6 ┼ 7 POSS. LOC.			
BS SAME	∡ RT			

SCARE CANYON SURVEY

CONT. FROM PG. 10
OF THIS BOOK

CONT. FROM PG. 10 OF THIS BOOK

ROSS

PRESTON

SIM

WARM 65° F.

BREEZY 15' mph

JUNE 11, 1985

STA →	STA	HORIZ ∡	S. DIST	VERT ∡
SCARE#2	RP(5)	0°00'00"	6822.22	94°39'05"
BACKSIGHT			6822.22	
			6822.21	
SCARE #2	RP (6)	32°02'45"	8874.44	90°50'00"
B.S. RP(5)	∡ RT.	32°02'45"	8874.~~33~~ 45	90°50'00"
		64°05'30"	8874.44	269°06'00"
SCARE #2	RP (7)	66°19'20"	6377.76	92°23'
B.S. RP (5)	∡ RT.	66°19'15"	6377.77	92°23'
		132°38'40"	6377.75	267°37'
		99°20'00"	6410.72	91°37'
SCAR #2	RP (8)	99°20'00"	6410.72	91°37'
B.S. RP5	∡ RT.	198°40'00"	6410.71	268°33'

SEE CALC. SHEET.
FOR DRAWINGS

STA →	STA	Horz ∡	S. DIST.	VERT ∡
SCARE #2	Rp (9)	146°37'25"	11,505.36	89°48'00"
B.S. Rp(5)	∡ Rt.	146°37'20"	11,505.32	89°48'00"
		293°14'50"	11505.39	270°12'00"
Rp (9) →	Rp (10)	233°37'30"	1881.64	89°41'45"
B.S. SCARE #2	∡ Rt.	233°37'30"	1881.65	89°41'45"
		107°15'00"	1881.64	270°19'10"
Rp (10) →	Rp (11)	191°14'45"	2379.12	269°36'45"
B.S. Rp(9)	∡ Rt.	191°14'50"	2379.12	90°36'45"
		22°29'30"	2379.12	269°23'30"
Rp(5)	31|32 / 5	66°24'33"	360.07'	93°58'
B.S. SCARE #2	∡ Rt.	66°24'30"	360.08	93°58'
		132°49'05"	360.05	266°02'
Rp (5) →	CABIN FNC #1	322°40'38"	103.90	95°51'
B.S. SCARE #2	∡ Rt	322°40'40"	103.90	95°51'
		285°21'15"	103.90	264°09"
Rp. (6) →	TWSP. COR. FNC. #1	283°03'15"	33.94	100°00'00"
B.S. SCARE #2	∡ Rt.	283°03'15"	33.94	100°00'00"
		206°06'30"	33.94	260°00'00"

SEE CALC. SHEET FOR DRAWING

STA →	STA	HORIZ ∡	S. DIST.	VERT ∡
RP (6) →	TWSP. COR. FNC. # 2	251°48'15"	66.65	90°53'30"
		251°48'15"	66.65'	90°53'30"
		143°36'30"	66.65'	269°06'55"
RP (7) →	25/30 FNC 36/31 POST	335°56'33"	265.21	91°00'00"
B.S. SCARE # 2	∡ RT.	335°56'35"	265.21	91°00'00"
		311°53'05"	265.17	269°00'00"
RP (11) →	RP (12)	95°34'06"	6003.63	91°48'30"
B.S. RP(10)	∡ RT.	95°34'05"	6003.62	91°48'30"
		191°08'12"	6003.65	268° 12'00"
x RP (12) →	TP (1)	15°27'03"	1019.09	90°40'30"
B.S. RP (11)	∡ RT	15°27'00"	1019.09	90°40'30"
		30°54'05"	1019.08	269°19'00"
TP (1) →	ALUM TABLET ON PAGE #11	239°57'15"	316.94	86°47'
B.S. RP (12)	∡ RT.	239°57'15"	316.95	86°47'
		119°54'30"	316.93	273°13'

TWSP. COR. # 2 = TOP OF RIDGE NAMED IN NOTES ON ORIGINAL SURVEY

SEE CALC SHEET FOR DRAWING

SEE PAGE # 10 OF THIS BOOK FOR MORE INFORMATION.

SCARE #2	33/34 SC, 3 @ FNC	294°19'20"	12,001.81	93°52'
BS. RP(5)	∢ RT.	294°19'20"	12,001.81	93°52'
		228°38'40"	12001.81	266°08'
SCARE #2	33/4 CC, 3 @ FNC.	295°46'30"	11563.22	93°52'55"
BS. RP(5)	∢ RT.	295°46'30"	11563.22	93°52'55"
		231°33'00"	11563.21	266°10'55"
SCARE #2 → SCARE #1		235°10'30"	333.23	83°16'
BS. RP(5)	∢ RT.	235°10'~~45~~30"	333.23	83°16'
		110°21'00"	333.26	270°44'
SCARE #1 → △ SCARE		123°50'28"	160.67	84°22'
BS. SCARE #2	∢ RT.	123°50'30"	160.67	84°22'
		247°40'55"	160.67	275°38'

SEE CALC. SHEET FOR DRAWING

USGS TRIANGLEATION PT. "SCARE" SET IN 1958 ATOP SCARE MOUNTAIN LOCATED IN SEC. 29 TOWNSHIP, 9 NORTH RANGE 3 EAST OF THE SLB&M & OVERLOOKS ANT VALLY TO THE EAST & SCARE CANYON TO THE SOUTH & WEST. RGL.

6-24-85 ROSS ∇

WARM 75°F JIM 8

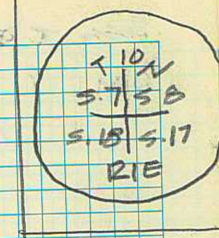
SET SECTION CORNER AS MEASURED BEGINING ON PAGE 63 OF THIS BOOK. WORK BEGAN UPON REQUEST OF THE ~~BE~~ B.O.R. TO OBTAIN THEM A BASIS OF BEARINGS

WP1 → CAP 28.95'

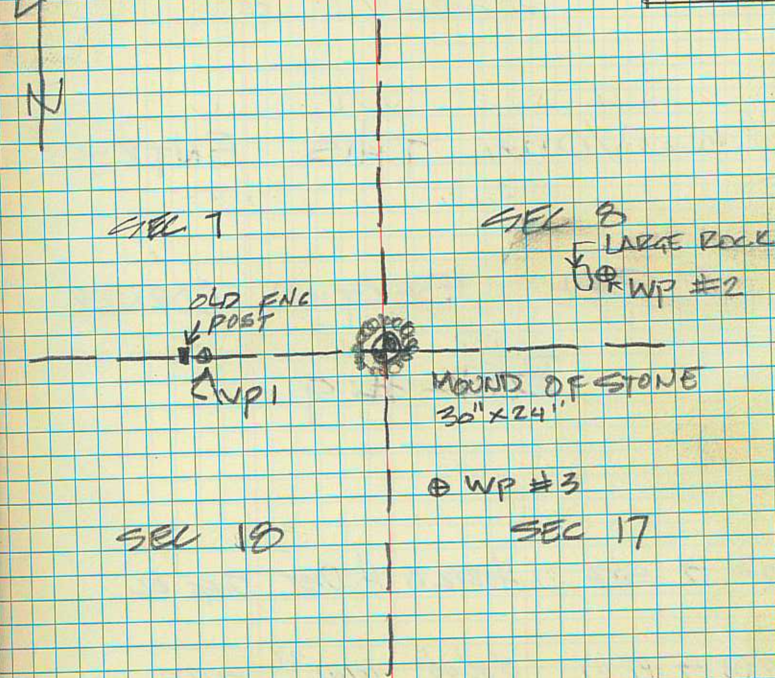
WP2 → CAP 49.31'

WP3 → CAP 50.57'

ALL MEASUREMENTS TAKEN ARE SLOPE DISTANCES



MON. = 3 1/4" ALUM CAP SET ON 2" GALV. PIPE 24 INCHES LONG LEFT CAP 10" OUT OF GROUND



WP = 1 1/4" ALUM CAP SET ON #5 STEEL REBAR

ROSS ⊼ ♡
JIM ♀

COOL 65°F
RAINY/BREEZ

NORTH LOGAN - 3100 NORTH
SURVEY

VOID THIS ENTRY

SEE SECTION CORNER
BOOK # 9

STA → STA		HORIZ ∡	H. DIST	DIFF EL.	
CP (1) →	PT (1)	0°00'00"	660.27	-0.20	
"BACKSIGHT"			660.26	-0.20	
CP (1) →	10/11 15/14	314°04'27"	190.27		WE SET THIS POINT AT THIS LOCATION OFF OF LYNNE BALLS SURVEY. A TEMPORARY POIN WAS SET AT THIS TIME
B.S PT (1) ∡ RT					
CP (1) →	MEAN ALIGN OF FNC.	288°30'51"	NO - DIST.		

STA → STA	HORIZ ∡	H. DIST	DIFF EL.
$\frac{10\vert 11}{15\vert 14}$ → CP(2)	VOID	VOID	VOID
B.S. CP(1) ∡ RT.	153°13'28"	5443.07	-68.99
	306°25'50"	54~~3~~43.05	-68.99
$\frac{10\vert 11}{15\vert 14}$ → CP(2)	VOID	VOID	VOID
B.S CP(1) ∡ RT	153°13'33"	5443.04	-70.87
	306°26'01"	5443.07	-70.87
$\frac{10\vert 11}{15\vert 14}$ → CP(2)	VOID	VOID	VOID
B.S. CP(1) ∡ RT	153°13'38"	5443.07	-70.87
	306°26'08"	5443.05	-70.87
$\frac{10\vert 11}{15\vert 14}$ → CP(2)	VOID	VOID	VOID
B.S. CP(1) ∡ RT	153°13'44"		
	306°26'33"		

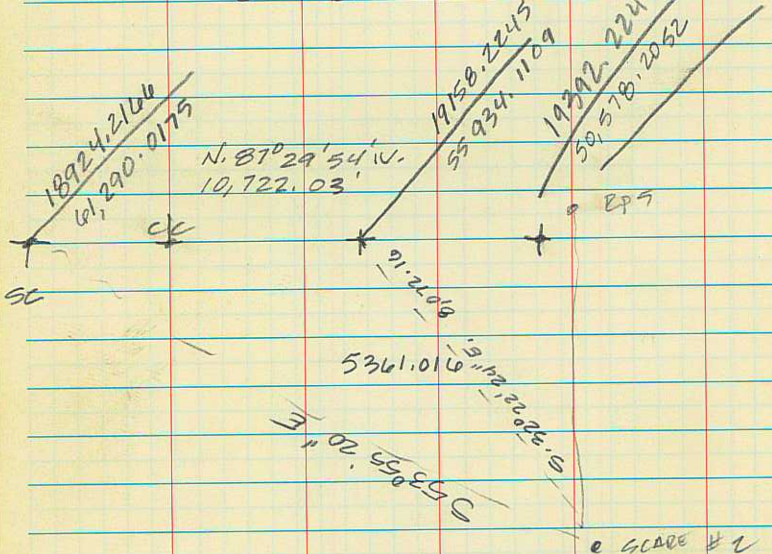
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

O PIPE 18,086.4201
50,308.3280

17,905.2713
50,619.0474

36 | 25
116

S. 181.15'
E 310.72'



CURVE TABLES

HOW TO USE CURVE TABLES

Table I. contains Tangents and Externals to a 1° curve. Tan. and Ext. to any other radius may be found nearly enough, by dividing the Tan. or Ext. opposite the given Central Angle by the given degree of curve.

To find Deg. of Curve, having the Central Angle and Tangent: Divide Tan. opposite the given Central Angle by the given Tangent.

To find Deg. of Curve, having the Central Angle and External: Divide Ext. opposite the given Central Angle by the given External.

To find Nat. Tan. and Nat. Ex. Sec. for any angle by Table I.: Tan. or Ext. of twice the given angle divided by the radius of a 1° curve will be the Nat. Tan. or Nat. Ex. Sec.

EXAMPLE

Wanted a Curve with an Ext. of about 12 ft. Angle of Intersection or I. P. = 23° 20′ to the R. at Station 542+72.

Ext. in Tab. I opposite 23° 20′ = 120.87
120.87 ÷ 12 = 10.07. Say a 10° Curve.

Tan. in Tab. I opp. 23° 20′ = 1183.1
1183.1 ÷ 10 = 118.31.

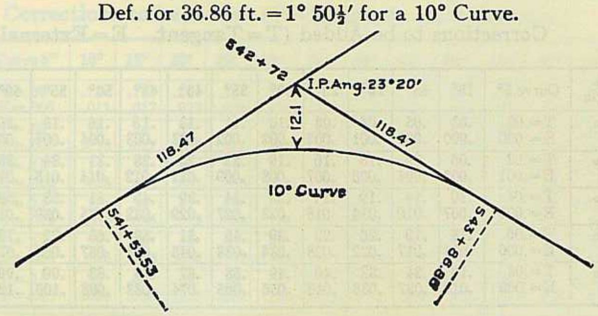
Correction for A. 23° 20′ for a 10° Cur. = 0.16
118.31 + 0.16 = 118.47 = corrected Tangent.

(If corrected Ext. is required find in same way)
Ang. 23° 20′ = 23.33° ÷ 10 = 2.3333 = L. C.

2° 19½′ = def. for sta.	542	I. P. = sta.	542+72
4° 49½′ = " " "	+50	Tan. =	1 .18.47
7° 19½′ = " " "	543	B. C. = sta.	541+53.53
9° 49½′ = " " "	+50	L. C. =	2 .33.33
11° 40′ = " " "	543+ 86.86	E. C. = Sta.	543+86.86

100 − 53.53 = 46.47 × 3′ (def. for 1 ft. of 10° Cur.) = 139.41′ = 2° 19½′ = def. for sta. 542.

Def. for 50 ft. = 2° 30′ for a 10° Curve.
Def. for 36.86 ft. = 1° 50½′ for a 10° Curve.

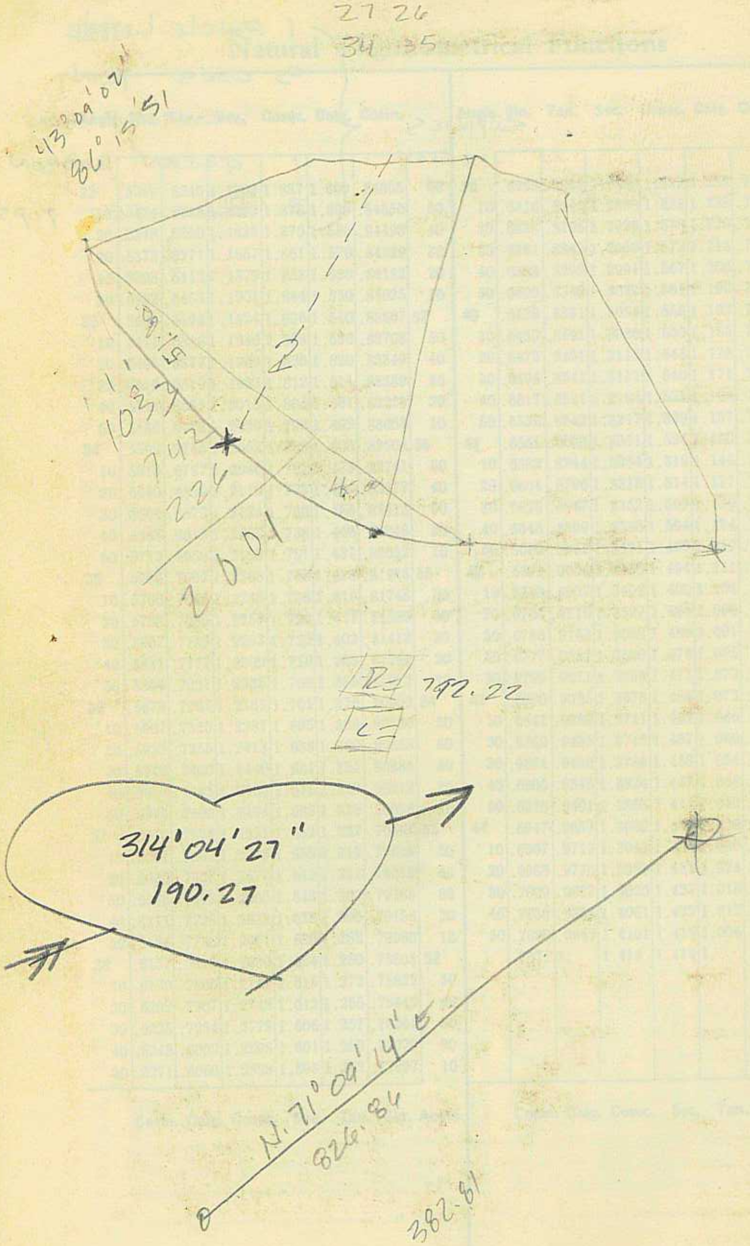


Natural Trigonometrical Functions

Angle. ° ′	Sin.	Tan.	Sec.	Cosec.	Cotg.	Cosin.	° ′
32	.5299	.6249	1.1792	1.887	1.600	.84805	58
10	.5324	.6289	1.1813	1.878	1.590	.84650	50
20	.5348	.6330	1.1835	1.870	1.580	.84495	40
30	.5373	.6371	1.1857	1.861	1.570	.84339	30
40	.5398	.6412	1.1879	1.853	1.560	.84182	20
50	.5422	.6453	1.1901	1.844	1.550	.84025	10
33	.5446	.6494	1.1924	1.836	1.540	.83867	57
10	.5471	.6536	1.1946	1.828	1.530	.83708	50
20	.5495	.6577	1.1969	1.820	1.520	.83549	40
30	.5519	.6619	1.1992	1.812	1.511	.83389	30
40	.5544	.6661	1.2015	1.804	1.501	.83228	20
50	.5568	.6703	1.2039	1.796	1.492	.83066	10
34	.5592	.6745	1.2062	1.788	1.483	.82904	56
10	.5616	.6787	1.2086	1.781	1.473	.82741	50
20	.5640	.6830	1.2110	1.773	1.464	.82577	40
30	.5664	.6873	1.2134	1.766	1.455	.82413	30
40	.5688	.6916	1.2158	1.758	1.446	.82248	20
50	.5712	.6959	1.2183	1.751	1.437	.82082	10
35	.5736	.7002	1.2208	1.743	1.428	.81915	55
10	.5760	.7046	1.2233	1.736	1.419	.81748	50
20	.5783	.7089	1.2258	1.729	1.411	.81580	40
30	.5807	.7133	1.2283	1.722	1.402	.81412	30
40	.5831	.7177	1.2309	1.715	1.393	.81242	20
50	.5854	.7221	1.2335	1.708	1.385	.81072	10
36	.5878	.7265	1.2361	1.701	1.376	.80902	54
10	.5901	.7310	1.2387	1.695	1.368	.80730	50
20	.5925	.7355	1.2413	1.688	1.360	.80558	40
30	.5948	.7400	1.2440	1.681	1.351	.80386	30
40	.5972	.7445	1.2466	1.675	1.343	.80212	20
50	.5995	.7490	1.2494	1.668	1.335	.80038	10
37	.6018	.7536	1.2521	1.662	1.327	.79864	53
10	.6041	.7581	1.2549	1.655	1.319	.79688	50
20	.6065	.7627	1.2577	1.649	1.311	.79512	40
30	.6088	.7673	1.2605	1.643	1.303	.79335	30
40	.6111	.7720	1.2633	1.636	1.295	.79158	20
50	.6134	.7766	1.2661	1.630	1.288	.78980	10
38	.6157	.7813	1.2690	1.624	1.280	.78801	52
10	.6180	.7860	1.2719	1.618	1.272	.78622	50
20	.6202	.7907	1.2748	1.612	1.265	.78442	40
30	.6225	.7954	1.2778	1.606	1.257	.78261	30
40	.6248	.8002	1.2808	1.601	1.250	.78079	20
50	.6271	.8050	1.2838	1.595	1.242	.77897	10
	Cosin.	Cotg.	Cosec.	Sec.	Tan.	Sin.	Angle

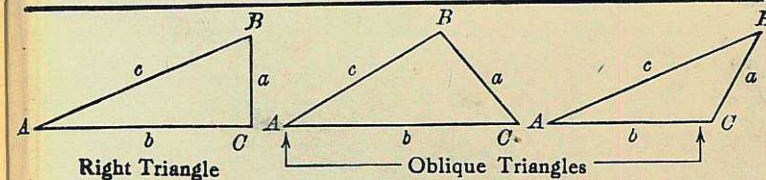
Angle. ° ′	Sin.	Tan.	Sec.	Cosec.	Cotg.	Cosin.	° ′
39	.6293	.8098	1.2868	1.589	1.235	.77715	51
10	.6316	.8146	1.2898	1.583	1.228	.77531	50
20	.6338	.8195	1.2929	1.578	1.220	.77347	40
30	.6361	.8243	1.2959	1.572	1.213	.77162	30
40	.6383	.8292	1.2991	1.567	1.206	.76977	20
50	.6406	.8342	1.3022	1.561	1.199	.76791	10
40	.6428	.8391	1.3054	1.556	1.192	.76604	50
10	.6450	.8441	1.3086	1.550	1.185	.76417	50
20	.6472	.8491	1.3118	1.545	1.178	.76229	40
30	.6494	.8541	1.3151	1 540	1.171	.76041	30
40	.6517	.8591	1.3184	1.535	1.164	.75851	20
50	.6539	.8642	1.3217	1.529	1.157	.75661	10
41	.6561	.8693	1.3251	1.524	1.150	.75471	49
10	.6583	.8744	1.3284	1.519	1.144	.75280	50
20	.6604	.8796	1.3318	1.514	1.137	.75088	40
30	.6626	.8847	1.3352	1.509	1.130	.74896	30
40	.6648	.8899	1.3386	1.504	1.124	.74703	20
50	.6670	.8952	1.3421	1.499	1.117	.74509	10
42	.6691	.9004	1.3456	1.494	1.111	.74314	48
10	.6713	.9057	1.3492	1.490	1.104	.74120	50
20	.6734	.9110	1.3527	1.485	1.098	.73924	40
30	.6756	.9163	1.3563	1.480	1.091	.73728	30
40	.6777	.9217	1.3600	1.476	1.085	.73531	20
50	.6799	.9271	1.3636	1.471	1.079	.73333	10
43	.6820	.9325	1.3673	1.466	1.072	.73135	47
10	.6841	.9380	1.3711	1.462	1.066	.72937	50
20	.6862	.9435	1.3748	1.457	1.060	.72737	40
30	.6884	.9490	1.3786	1.453	1.054	.72537	30
40	.6905	.9545	1.3824	1.448	1.048	.72337	20
50	.6926	.9601	1.3863	1.444	1.042	.72136	10
44	.6947	.9657	1.3902	1.440	1.036	.71934	46
10	.6967	.9713	1.3941	1.435	1.030	.71732	50
20	.6988	.9770	1.3980	1.431	1.024	.71529	40
30	.7009	.9827	1.4020	1.427	1.018	.71325	30
40	.7030	.9884	1.4061	1.422	1.012	.71121	20
50	.7050	.9942	1.4101	1.418	1.006	.70916	10
	.7071	1.	1.414	1.414	1.	.70711	45
	Cosin.	Cotg.	Cosec.	Sec.	Tan.	Sin.	Angle

SUPPLIES
- 1 BNDLE. LATHE
- 3 CANS PAINT.
- 1 ORANGE RIBBON
- 1 GREEN RIBBON
- 3 BLACK FELT TIPS



44° 07' 44" ∡ LFT. 8072.16'

TRIGONOMETRIC FORMULÆ



Right Triangle — Oblique Triangles

Solution of Right Triangles

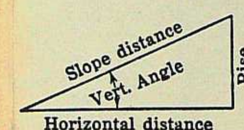
For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\operatorname{cosec} = \frac{c}{a}$

Given	Required	
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B,\ c = \sqrt{a^2+b^2} = a\sqrt{1+\frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B,\ b = \sqrt{(c+a)(c-a)} = c\sqrt{1-\frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90° - A,\ b = a \cot A,\ c = \frac{a}{\sin A}.$
A, b	B, a, c	$B = 90° - A,\ a = b \tan A,\ c = \frac{b}{\cos A}.$
A, c	B, a, b	$B = 90° - A,\ a = c \sin A,\ b = c \cos A,$

Solution of Oblique Triangles

Given	Required	
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A},\ C = 180° - (A+B),\ c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a},\ C = 180° - (A+B),\ c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A+B = 180° - C,\ \tan \frac{1}{2}(A-B) = \frac{(a-b)\tan\frac{1}{2}(A+B)}{a+b},\ c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a+b+c}{2},\ \sin\frac{1}{2}A = \sqrt{\frac{(s-b)(s-c)}{bc}},\ \sin\frac{1}{2}B = \sqrt{\frac{(s-a)(s-c)}{ac}},\ C = 180° - (A+B)$
a, b, c	Area	$s = \frac{a+b+c}{2}$, area $= \sqrt{s(s-a)(s-b)(s-c)}$
A, b, c	Area	area $= \frac{bc \sin A}{2}$
A, B, C, a	Area	area $= \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = 5° 10′. From Table, Page IX. cos 5° 10′ = .9959. Horizontal distance = 319.4 × .9959 = 318.09 ft. Horizontal distance also = Slope distance minus slope distance times (1 — cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. Cosine 5° 10′ = .9959. 1 — .9959 = .0041. 319.4 × .0041 = 1.31. 319.4 — 1.31 = 318.09 ft.

When the rise is known, the horizontal distance is approximately:— the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.

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