

BK 1-1986

WESCO

Field Book
550-501

BK: 01-86

Name . CACHE COUNTY SURVEYOR

Address . 179 NORTH MAIN

LOGAN, UTAH 84321

Phone . (801) 752-8348

Projects

01-86-001 - LEVELS AT MAUGHAN'S
CORNER (BENSON)

This book is published on a fine 50% cotton-content ledger paper, specially treated for maximum archival service, and protected by a water resistant surface sizing.

WESCO

WESTERN ENGINEERING & SURVEYING SYSTEMS CO.
4895 Joliet Street • Denver, Colorado 80239 • (303) 373-0990

①

4 FEB 86

P. WARD, J. BISHOP

MILD P/C 35°

STATION	+	HI	-	ELEV.
---------	---	----	---	-------

7

TP 1

6 59

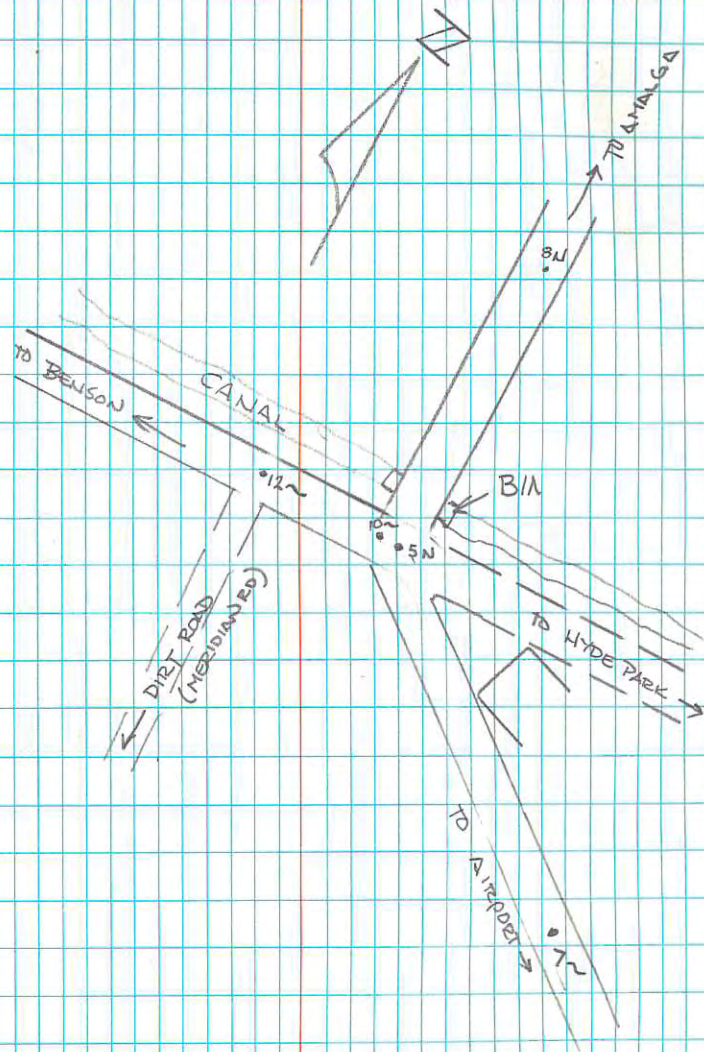
106 59

B/A - TOP OF CULVERT EAST END
ASSUMED ELEV. 100.02

①

Proj. 01-86-001

- MAUGHAN'S CORNER -



7+00

7+50

8+00

8+50

9+00

9+50

②

01-86-001
CONT.

$\frac{0}{1} \times 98 \frac{5}{2}$

$\frac{0}{1} \times 98 \frac{5}{2}$

$\frac{1}{10} \times 98 \frac{5}{2}$

$\frac{0}{1} \times 98 \frac{5}{2}$

$\frac{0}{1} \times 98 \frac{5}{2}$

$\frac{0}{10} \times 98 \frac{5}{2}$

$\frac{3}{16} \times 103 \frac{0}{2}$

$\frac{11}{13} \times 102 \frac{2}{2}$

$\frac{3}{10} \times 102 \frac{7}{2}$

$\frac{3}{10} \times 102 \frac{7}{2}$

$\frac{4}{1} \times 102 \frac{5}{2}$

$\frac{3}{10} \times 102 \frac{7}{2}$

$\frac{0}{10} \times 98 \frac{5}{2}$

$\frac{0}{13} \times 98 \frac{3}{2}$

$\frac{0}{1} \times 98 \frac{5}{2}$

$\frac{5}{16} \times 101 \frac{0}{2}$

$\frac{0}{14} \times 101 \frac{3}{2}$

$\frac{1}{100} \times 98 \frac{8}{2}$

BUILDING
AREA

BUILDING
AREA

SOUTH

HI 106 $\frac{6}{6}$

NORTH

12+00

^x
7₈

^x
3₈

^x
8₈

11+50

^x
7₇

^x
4₈

^x
7₈

11+00

^x
7₇

^x
4₇

^x
7₈

10+50

^x
7₈

^x
3₈

^x
7₈

10+00

^x
8₆
^x
8₆

^x
3₆

^x
8₆

HI 106₆

01-86-001
CONT.

8+00N

7+50N

7+00N

6+50N

6+00N

5+50N

5 N

*
8⁷

*
4⁷

*
7⁷

*
8⁷

*
4⁸

*
8⁷

*
8⁷

*
4⁷

*
8⁷

*
8⁶

*
4⁵

*
8⁶

*
8⁶

*
4⁶

*
7⁶

*
2⁸

*
3⁵

WEST

HI 106⁶

EAST

7 FEB 86

P. WARD, J. BISHOP

19th WEST

CLEAR COLD 14°

DRAINAGE ELEV.

PT #	+	HI	-	ELEV.
------	---	----	---	-------

PT A.		9	34	
-------	--	---	----	--

PT AA		9	36	
-------	--	---	----	--

PT B		8	98	
------	--	---	----	--

PT. C		8	39	
-------	--	---	----	--

PT. D		8	64	
-------	--	---	----	--

PT. E		8	69	
-------	--	---	----	--

PT. F		9	00	
-------	--	---	----	--

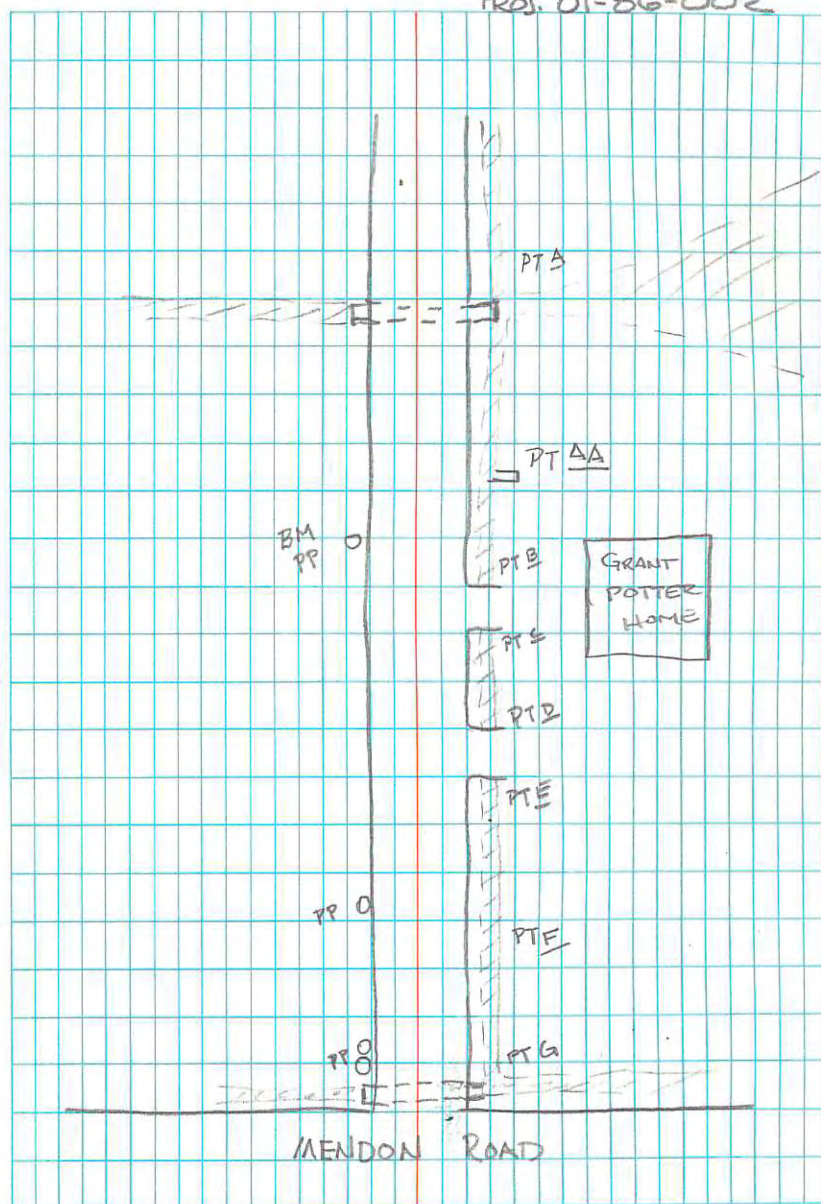
PT. G		9	70	
-------	--	---	----	--

TP 1	5	31	105	31
------	---	----	-----	----

BM PP. 3RD POLE FROM MENDON ROAD
 WEST SIDE OF ROAD. BOLT IN POLE BASE
 ASSUMED ELEV. 100⁰⁰ TRANSFORMER # 936199

5

Proj. 01-86-002



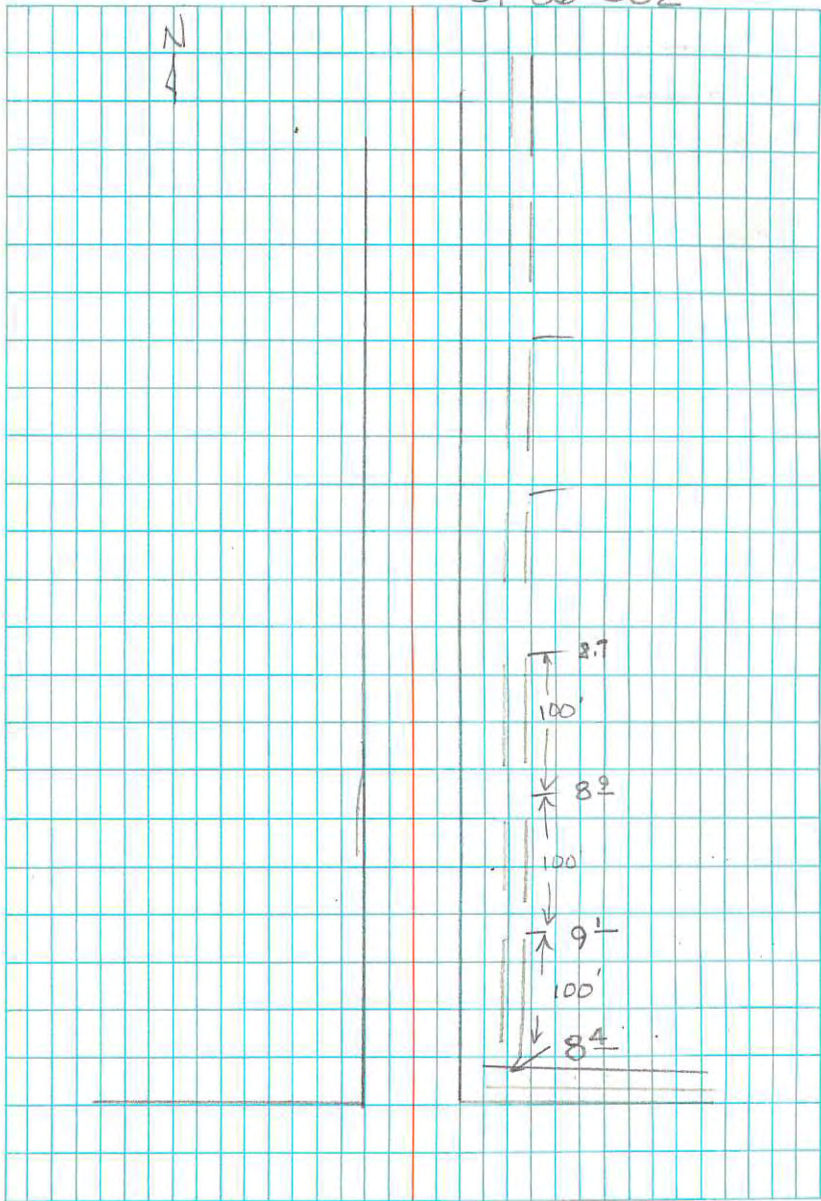
DITCH GRADES ON 19th West

07 FEB 86

TED, BHOE JIM, PRESTON

01-86-002

N
4



01-86-003

SMITHFIELD CANYON SURVEY

31 MARCH 1986

P. WARD J. BISHOP

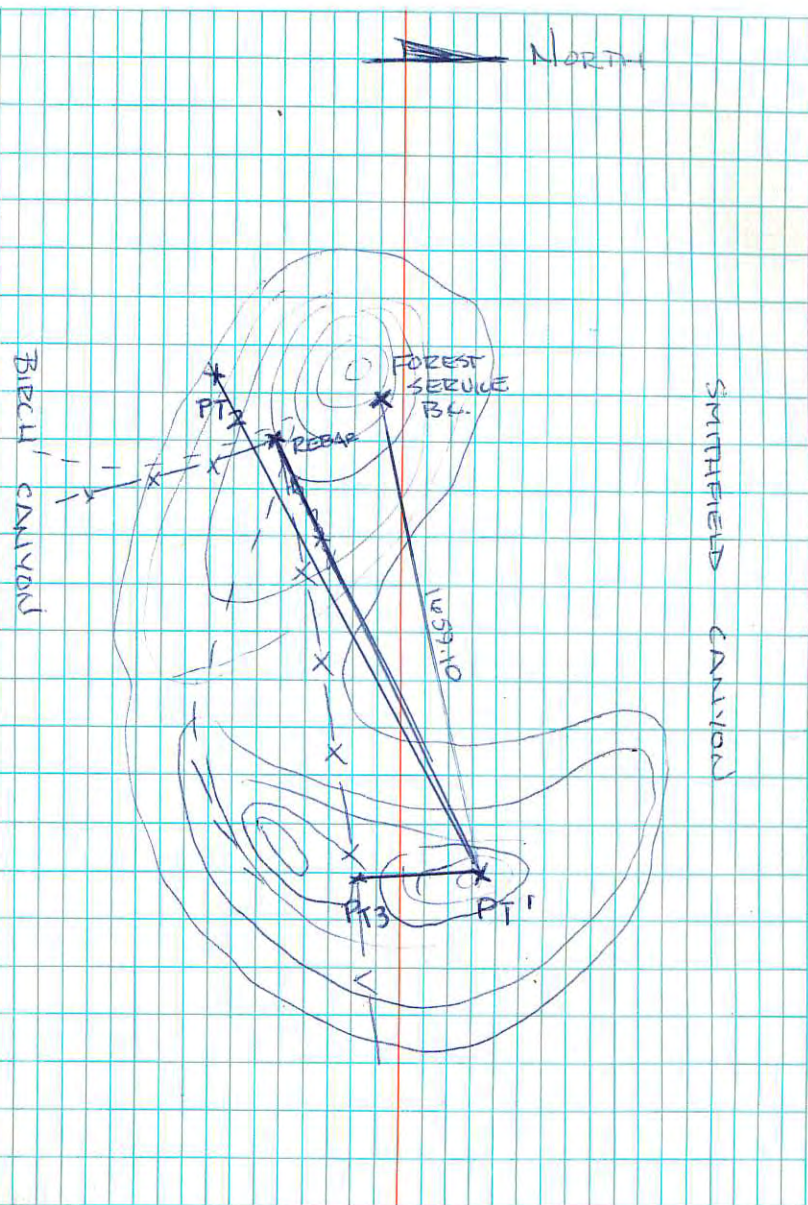
TO EST. SECTION CORNER BETWEEN

J. CROSSLEY AND O. CRONQUIST.

HORIZ. DISTANCE

PT1 - PT3	309°47'08"	558.39	+0.73
BACK BC			
PT1 - REBAR	343°43'52"	1734.86	-36.24
BACK BC			
PT1 - PT2	340°10'37"	1773.82	-50.49
BACK BC			
PT1 - BC.	0°00'00"	1659.10	-12.56

7



HORZ. DIST.

8

PT1-PT1^s SEE NEXT PAGE

*
PT1

PT4-SEC COR 153°07'47" 171.50'

*
REBAR

*
PT3

*
PT2

PT4-BCD 167°36'07" 410.41

BACK PT2

PT2-PT4
BACK PT1 ~~1870.38~~
112°03'11" 1870.38

*
PT4

PT2-REBAR 291°29'13"
BACK PT1

O SEC. COR

*O
BC
AT CATTLE
GUARD

	HORZ. \angle VERT	SLP DIST	VERT \angle	HORZ DIST
--	------------------------	----------	---------------	-----------

PT3 ^s - SEC. INT RT BACK PT2 ^s	174°01'00"	902.54	92°15'30"	
------------------------------------------------------------	------------	--------	-----------	--

PT2 ^s - TOP OF HILL PT3 ^s	319°43'20"	4389.61	86°57'	
----------------------------------------------------	------------	---------	--------	--

PT2 ^s - 1/4 22+23 BS PT1 ^s	313°30'45"	2658.21	89°36'	
--------------------------------------------------------	------------	---------	--------	--

PT1 ^s - PT2 ^s	0°00'	8258.27	86°08'00"	8239.47
-------------------------------------	-------	---------	-----------	---------

	SLP DIST	VERT \angle	
PT1 ^s - PT ^s	7130.23	85°19'30"	7106.51

	HORZ \angle	
PT1 - PT1 ^s SECTOR BACK BC	11°54'50"	

PT3^s IS ON TOP OF SMALL RIDGE BETWEEN SEC. COR
and 1/4 COR 100'-200' EAST OF ROAD

PT2^s IS ALONG DIRT ROAD ABOVE OF SMITHFIELD
CANYON. JUST EAST OF DRAW THAT ROAD
WINDS THRU.

*PT1^s

SMITHFIELD CANYON

*SECTOR BC

*PT1

RIDGE

BIRCH CANYON

4 JUNE 86.

TO SET	SEC	COR.
		$\frac{14}{23} \frac{13}{24}$

SET UP PT 15 BACK SITE PT 25

AZ. IN GUN $215^{\circ}40'55''$

AZ. TO PROP. COR. $180^{\circ}33'40''$

HORIZ. DIST. 1452.08'

SET TEMP. HUB AND TACK TO BEGIN SEARCH

$$1499.17 \times 100^{\circ}19' = \frac{\text{HORIZ. DIST}}{1474.93}$$

1452.08

$$1468.39 \times 100^{\circ}19' = \frac{\text{HORIZ. DIST}}$$

$$1477.28 \times 100^{\circ}15'30''$$

4 JUNE 86

10

TO SET	1/4 COR.
	$\frac{13}{24}$

SET UP INST. ON POINT PT 15
 BACKSITE PT 25 AZ. $215^{\circ}40'55''$
 TURN TO AZ. $118^{\circ}56'11''$

MEASURED 3016.66 FT.

SET TEMP. HUB TO BEGIN SEARCH FOR STONE

5 JUNE 86.

SEARCHED AREA AROUND HUB FOR
1/2 hrs. FOUND NO STONE.

6 JUNE 86

TO SET $\frac{1}{4}$ COR $\frac{14}{23}$ T13N R1E

SET UP INSTR. ON PT1'S BACKSITE

PT2'S INST. AZ. $215^{\circ}40'55''$

AZ TO CORN. LOCATION $241^{\circ}34'25''$

MEASURE DIST. 3034.34'

SET TEMP. HUB AND TACK TO
BEGIN SEARCH FOR $\frac{1}{4}$ STONE.

NOTE: AZ. TO PIPE ON TOP OF
SMITHFIELD CITY WATER TANK
BELOW PT1S = $155^{\circ}24'25''$

SET UP ON PT 2^S

☿ IN GUN - 35°40'55"

BACKSITE PT 1^S

TURN RT TO PT ON RIDGE ☿ 78°10'55"

SET UP ON RIDGE BACKSITE PT 2^S

HORZ. DIST. 4099.09 - 619'

445613.9604
533911.8788

HORZ ☿ 0°00'00"

HORZ. DIST HORZ. ☿

RIDGE - $\frac{1}{4}$ COR
FENCE POST

4798.01 ☿ 78°23'33"

50016.5059
32004.3954

RIDGE - $\frac{1}{4}$ COR
PROP.

4790.46 ☿ 78°46'43"

50022.3125
32027.0616

RIDGE - PT 1^S

5906.87 ☿ 109°31'40"

51467.4350
34704.3110

RIDGE - NORTH
FENCE LINE
NEAR PT 1^S

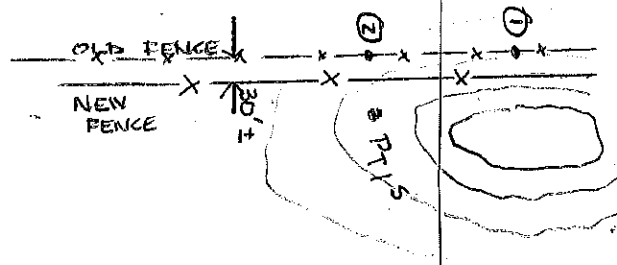
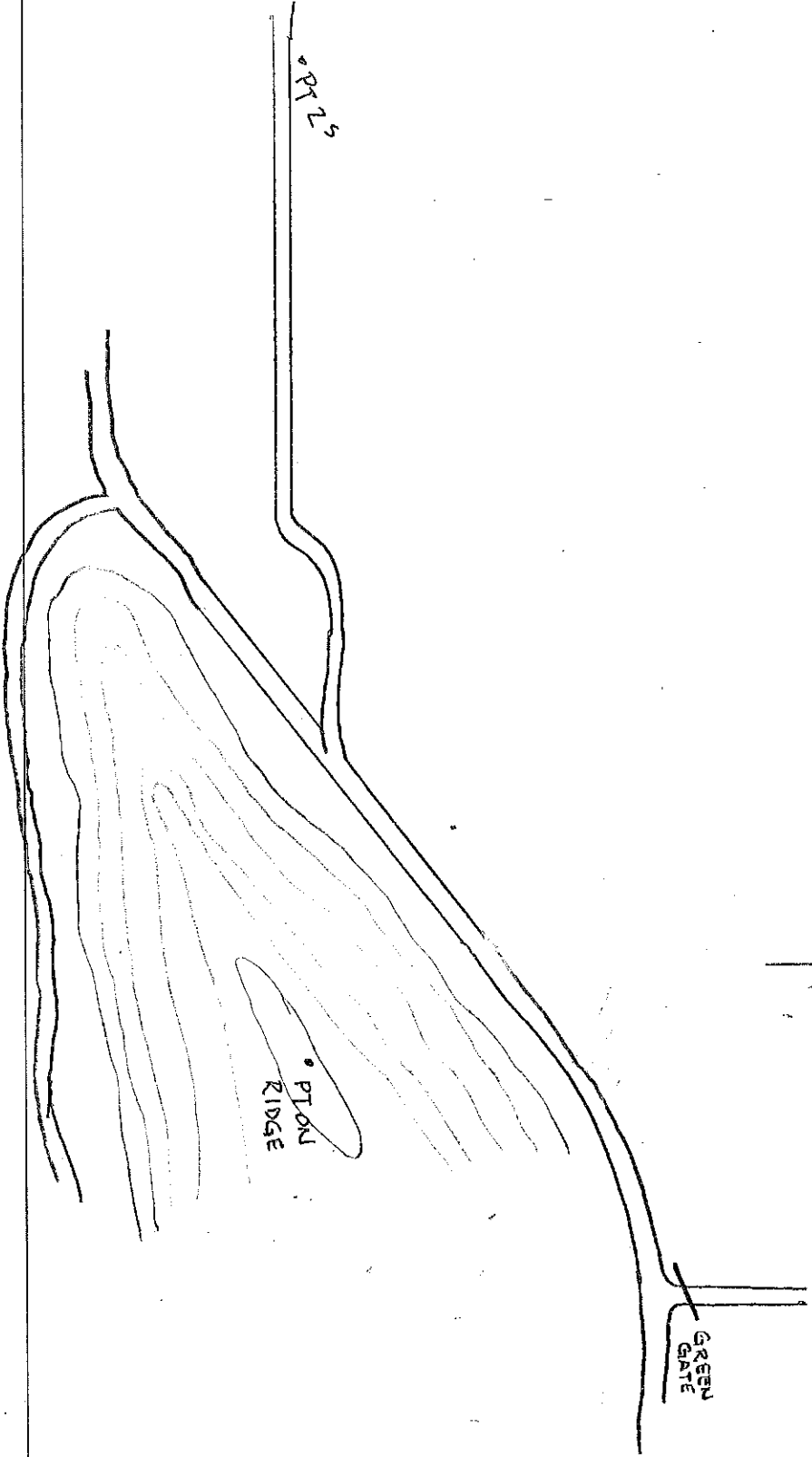
5968.02 108°56'47"

51535.8518
34682.4634

Fig. 14 BK. 01-86
23 JUNE 86

#

#



LYNN HARRIS

563 686⁴
6922

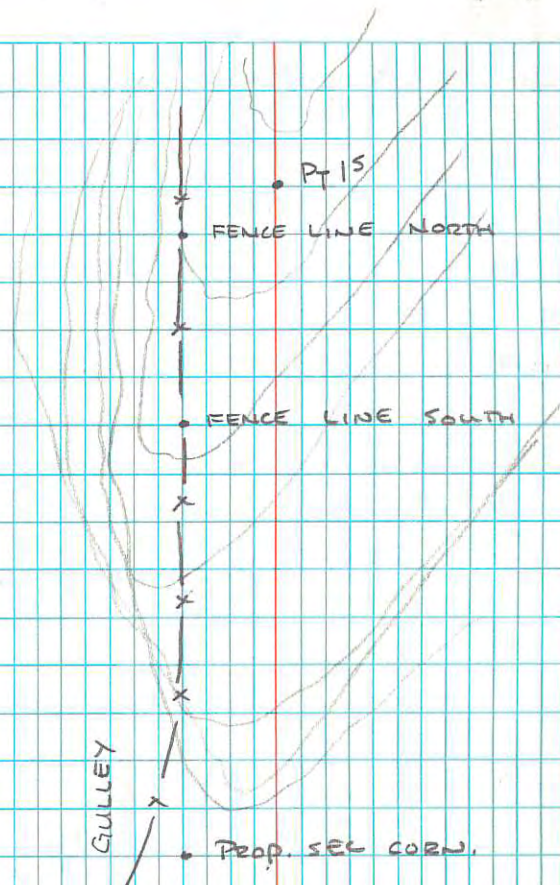
SMITHFIELD CANYON SURVEY

SET UP PT 1^s BACKSITE PT 1

§ RITE

- 3 FENCE POST EAST - 37° 49' 02" 1931.44
- 4 FENCE POST WEST 46° 54' 33" 1714.72
- 5 ALONG E TO WEST 67° 02' 01" ~~199~~ 1495.94
- 6 TO ROAD WEST 113° 46' 06"

STATION TO STATION	HORZ. DIST.	HORZ. \angle	
RIDGE - SOUTH FENCE LINE NEAR PT 15	5659.72	109°22'00"	51224.6320 34655.3810
RIDGE - Prop. SEC COR	4469.92	111°51'23"	50015.4520 34691.0172
NOTE: FENCE LINE RUNNING NORTHELY CURVES TO THE EAST - SEE DRAWING			
RIDGE - FENCE POST BETWEEN CRONQUIST & MILES	4832.66	126°48'36"	NOTE: FENCE LINE CURVES TO EAST. 49994.1249 35953.6353

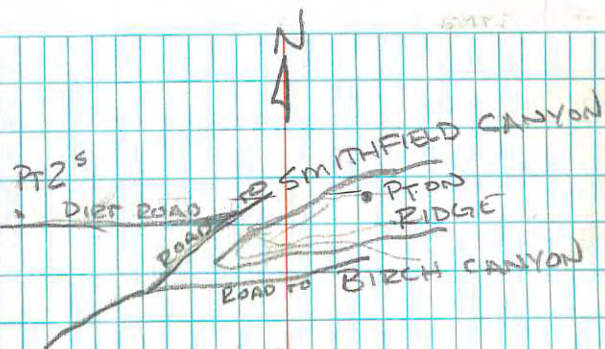


23 JUNE 1986

SET-UP ON RIDGE BACKS TE PT 2^S

	SLP DIST	VERT Δ	HORIZ Δ	
① RIDGE TO FENCE	6415.80	90°01' 6415.80	108°14'30"	OLD POST ON FENCE 51989.4811 34629.6686
② PT ON FENCE	5654.84	91°07' 5653.76	109°04'50"	OLD FENCE LINE 51222.3685 34626.6019
③ FENCE POST	3160.45	96°52'30" 3137.73	115°14'45"	48666.9110 34640.5198

14



STATION #	STATION LOCATION	NORTH	EAST
	SEC. COR. $\frac{13 18}{24 19}$	50000.00	40000.00
	$\frac{1}{4}$ COR. 24+19	47373.6208	39989.1114
PT 1	ON RIDGE EAST OF SEC. COR. $\frac{24 18}{24 19}$ - ASSUM. AS EAST -	50000.00	41659.1000
PT 2	NEAR ROAD TO SEC COR $\frac{13 18}{24 19}$	49398.4684	39990.3888
PT 4	ON TOP OF RIDGE NORTH OF $\frac{1}{4}$ COR 24+19	47529.5049	39917.6104
PT 1 ^s	ON HILL ABOVE CRONQUIST'S	51467.0777	34705.6715
PT 2 ^s	ALONG DIRT ROAD ABOVE SMITHFIELD CANYON AT GULLEY	44774.4483	29899.6776
	POINT ON RIDGE BETWEEN SMITHFIELD AND BIRCH CANYONS	45613.9604	33911.8788
	$\frac{1}{4}$ COR 22+23	47385.4646	29401.3503
	SEC COR. $\frac{15 14}{22 23}$	50030.2587	29382.9053
	PROPORTIONED $\frac{1}{4}$ COR $\frac{14}{23}$	50022.3125	32037.0616
	FOUND FENCE POST NEAR PROPORTIONED $\frac{1}{4}$ COR	50016.5059	32004.3954

STATION #	STATION LOCATION	NORTH	EAST
14 ¹³ 23 ²⁴	PROPORTIONED SEC COR (NOTE: PROP. IS FROM 15 ¹⁴ TO 13 ¹⁸ NOT FROM 22 ²³ TO 24 ¹⁹)	50015.4520	34691.0172
	FENCE POST NEAR $\frac{1}{4}$ COR		$\frac{14}{23}$
	POINT ALONG EXIST. FENCE RUNS E-W ABOVE CRONQUIST	49998.8845	34992.4557
	FENCE POST ALONG FENCE ON W. SIDE OF GULLET ABOVE CRONQUIST.	50000.0102	35593.3525
	FENCE POST ALONG FENCE RUNNING EAST FROM GULLET ABOVE CRONQUIST'S	49994.1249	35953.6333
	POINT ALONG OLD FENCE LINE RUNS N-S NEAR SEC. COR $\frac{14^{13}}{23^{24}}$	51989.4811	34629.6686
	POINT ALONG OLD FENCE	51222.3685	34626.6019
	FENCE POST AT END OF OLD FENCE	48665.9110	34640.5198
	POINT ALONG NEW FENCE		

26 JUNE 1986

STATION	HORIZ \angle	HORIZ DIST.	SLP DIST	VERT \angle
SET GUN up ON RIDGE			N 45613.9604	E 33911.8788
BACKSITE PT 2 ^S	44°47'44.83"	29899.6776	\angle 'S TO RT.	
RIDGE - PT 3 ^S	107°40'30"	6486.10	6486.10	89°58'
RIDGE - ROCK	108°14'26"	6408.31	6408.31	90°01'

SET UP ON PT 3^S BACKSITE RIDGE \angle ' RT

PT 3 ^S - $\frac{1}{4}$ POST	183°25'30"	470.47		
PT 3 ^S - ^{LARGE} FENCE POST	177°46'36"	2573.15	FENCE RUNS NORTH	
PT 3 ^S - FENCE POST	176°13'04"	2764.51	FENCE RUN WES	
PT 3 ^S - ^{RA^S} PT NEAR $\frac{1}{4}$ COR.	353°31'51"	4710.37		
PT 3 ^S - ^{PT ABOVE} SEL COR	347°50'18"	809.86		

17

PT 3^S IN ON TOP OF HILL JUST NORTH OF PT 1^S

COORD'S - PT 3^S = N 52066.2004 E 34573.7530

ROCK = N 51982.0520 E 34628.7071

$\frac{1}{4}$ POST = N 52530.5103 E 34649.6364

POST = N 54634.1777 E 34736.8289

POST = N 54828.8982 E 34673.8361

PT 4^S = N 47356.0993 E 34624.0837

PT 5^S = N 51261.2385 E 34662.6888

SET UP ON PT ABOVE SEC. COR. PT5^s
 BACKSITE PT3^s ↗'s RT

PT5^s
 SET-UP - PT1^s 18°17'06" 210.20

PT5^s - $\frac{SEC\ COR}{14|13}$ 187°41'54" 1270.72
 23|24

SET UP ON PT4^s BACKSITE PT1^s ↗ RT

PT4^s - $\frac{1}{4}COR$ 84°23'48" 27.36

PT4^s - PT5^s 359°25'13"

PT1^s 51466.8602 34706.3211

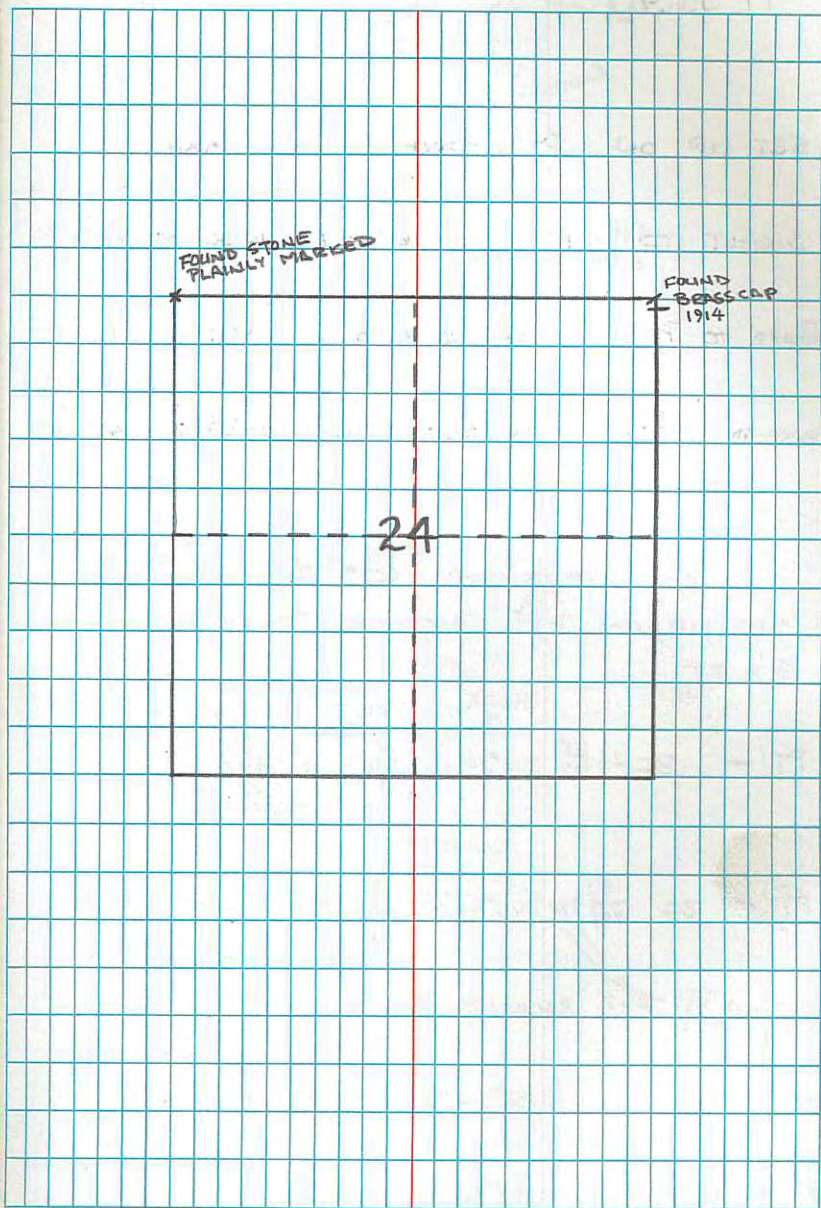
$\frac{14|13}{23|24} = N 49990.8944 E 34631.7840$

N 47358.2299 E 34651.3606

SURVEY FOR MARRIOT FAMILY

T8N R3E SECTION 24.

NOTE: FOUND A QUARTZITE STONE PLAINLY
MARKED AND FIRMLY SET. THE MARKINGS ON
THE STONE MATCHED THE CALLED FOR
MARKING HOWEVER THEY LOOK TO NEW.
STONE SIZE IS OFF ALSO. MET WITH
JERRY LARSON WHO SURVEYED IN THE
AREA 1-2 YEARS AGO. HE TESTIFIED THAT
HE FOUND THE STONE.



17 JULY

SET UP ON PT POWER (SEE MAP.)

SIGHT TO PT'	SLP DIST	VERT $\frac{4}{4}$	
	6141.57	94°56'30"	6118.74

POWER TO PT 2	356°27'05"	6715.32	93°41'00"	6701.45
---------------	------------	---------	-----------	---------

POWER TO 25 $\frac{19}{30}$	306°55'30"	5427.69	94°09'00"	5413.46
-----------------------------	------------	---------	-----------	---------

28 JULY - VARD BISHOP 60° P.C. WINDY

SET UP ON PT' BACKSITE POWER

$\frac{4}{5}$ 'S RT

PT' - BC	24 $\frac{18}{19}$	HORZ $\frac{4}{4}$	DIST.
		302°24'48"	200.24

PT' - BC	$\frac{13}{27}$ 18	276°46'49"	289.84
----------	--------------------	------------	--------

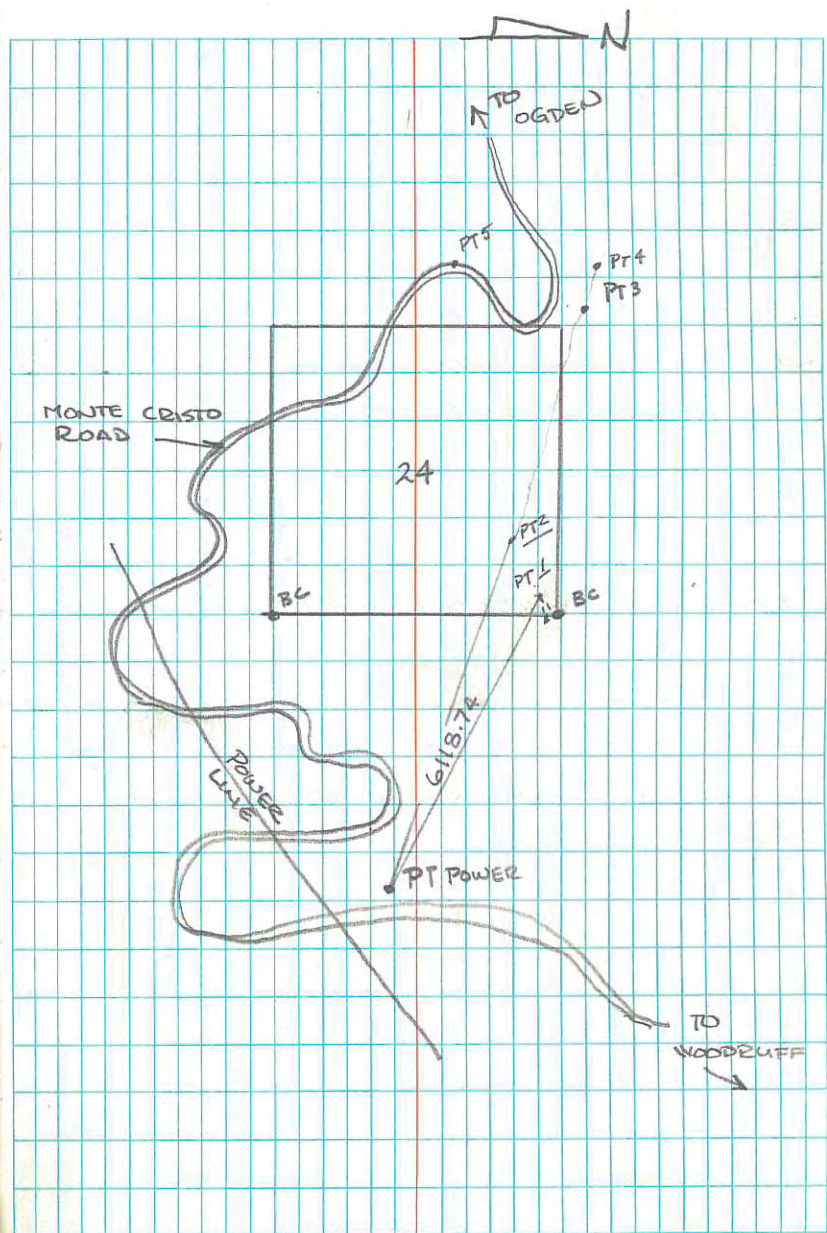
SET UP ON PT 2 BACKSITE POWER $\frac{4}{5}$ RT.

PT 2 - PT 3	157°34'26"	4308.27
-------------	------------	---------

PT 2 - PT 4	157°34'26"	4614.25
-------------	------------	---------

NOTE: PT 3 AND PT 4 ARE ON LINE WITH PT 2

21



SET UP ON BC 25 | 19 BACKSITE POWER
 & RT 30

HORZ & DIST.
 25 | 19 — 24 | 19 291°50'55" 96.13
 30 — 25

SET UP ON PT3 BACKSITE PT4
 & RT

HORZ & DIST.
 PT3 — STONE MARROT 93°12'01" 172.83

PT3 — STONE BAILEY 221°12'09" 212.69

29 JULY 1986

SUNNY 60° AM WARD, BISHOP, CAZIER.

SET UP ON PT4 BACKSITE PT3 &'S RT

PT4 - PT5 ON RD. 89°32'25" 1637.48

SET UP ON PT5 BACK PT4 & RT

PT 5 - PT 6 129°30'15" 1429.74

PT 6 - PT 7 $157^{\circ}32'43''$ 899.01

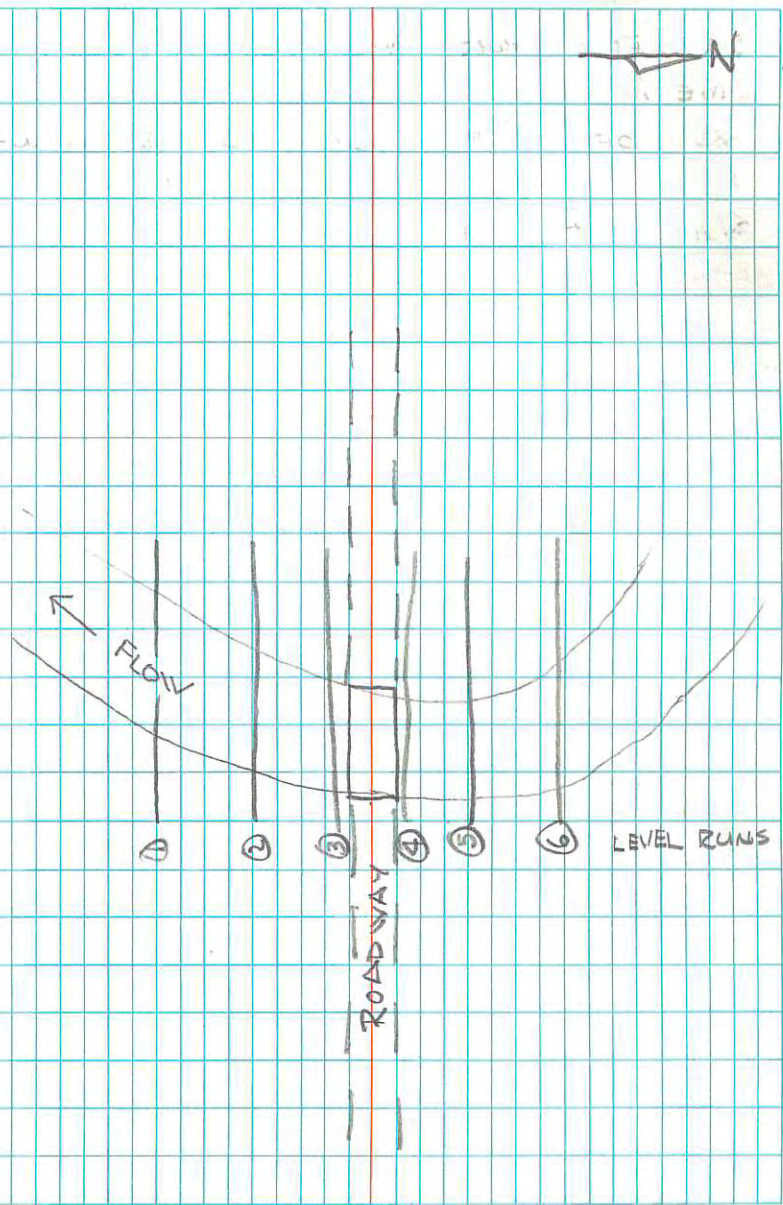
PT 7 - PT 8 $264^{\circ}10'10''$ 1496.11

CANNIBAL ROAD BRIDGE -

25 AUGUST WARD BISHOP -

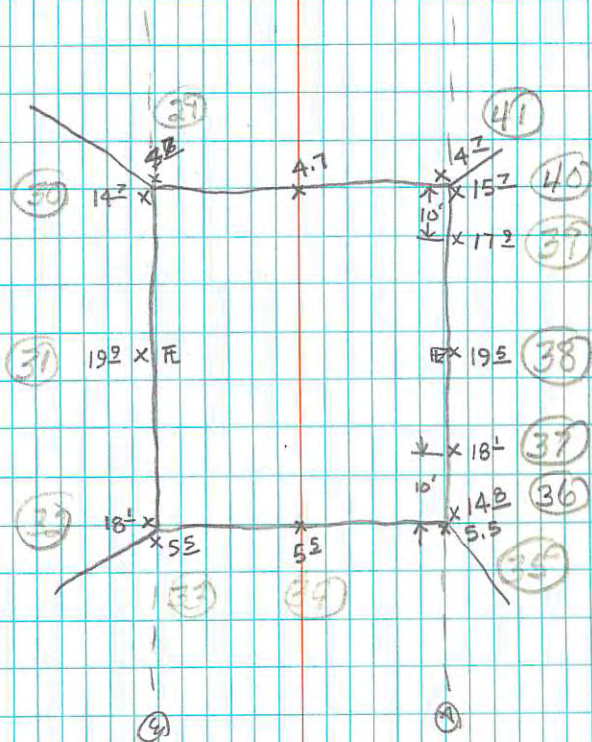
LEVELS

RUN OF 6 LEVEL LINE TO DETERMINE
FLOW AND CHANNEL INFORMATION FOR
BRIDGE DESIGN

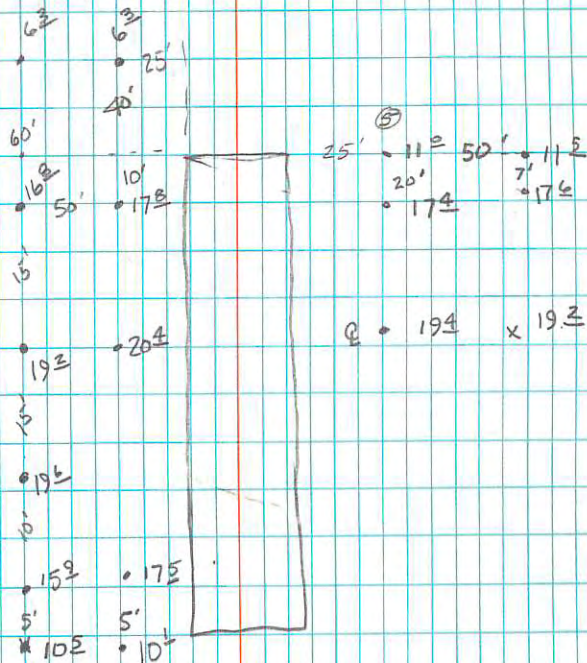


BM FENCE POST WEST OF BRIDGE SOUTH
SIDE OF ROAD R/P TIE / 2X4 NAILED
ON SIDE, TOP OF 2X4 ELEV. ASS 4500.00

STA.	+	HI	-	ELEV STA
4500.00	2.03	4502.03		4500.00
1	Q DECK WEST SIDE	4.68		4497.35
2	Q ROAD TO WEST 50'	3.50		4498.53
3	Q ROAD WEST 100'	0.44		4501.59
#8				
4	Q ROAD TO EAST 50'	7.5		4494.53
5	Q ROAD TO EAST 100'	8.8		4493.23
6		6.3		4495.73
7		17.80		4484.23
8		20.40		4481.63
9		17.50		4484.53
10		10.10		4491.93
11		6.30		4495.73
12		16.80		4485.23
13		19.20		4482.83
14		19.60		4480.43
15		15.90		4486.13
16		10.50		4491.53



(4502.03)				
⑤ 25' NORTH OF BRIDGE				
STA	+ S	HI	- S	ELEV STA
17			2.50	4499.53
18			11.00	4491.03
19			17.40	4484.63
20			19.40	4482.63
21			16.90	4485.13
22			11.30	4490.73
23			11.50	4490.53
24			17.60	4484.43
25			19.20	4482.93
26			17.40	4484.63
27			11.80	4490.23
28	BM		2.03	4500.00
29			4.70	4497.33
30			14.70	4487.33
31			19.90	4482.13
32			18.10	4483.93
33			5.5	4496.53
34			5.5	4496.53
35			5.5	4496.53
36			14.80	4487.23
37			18.10	4483.93
38			19.50	4482.53



STA	+S	HI	-S	ELEV STA
-----	----	----	----	----------

39			17.90	4484.13
40			15.70	4486.33
41			4.70	4497.33

