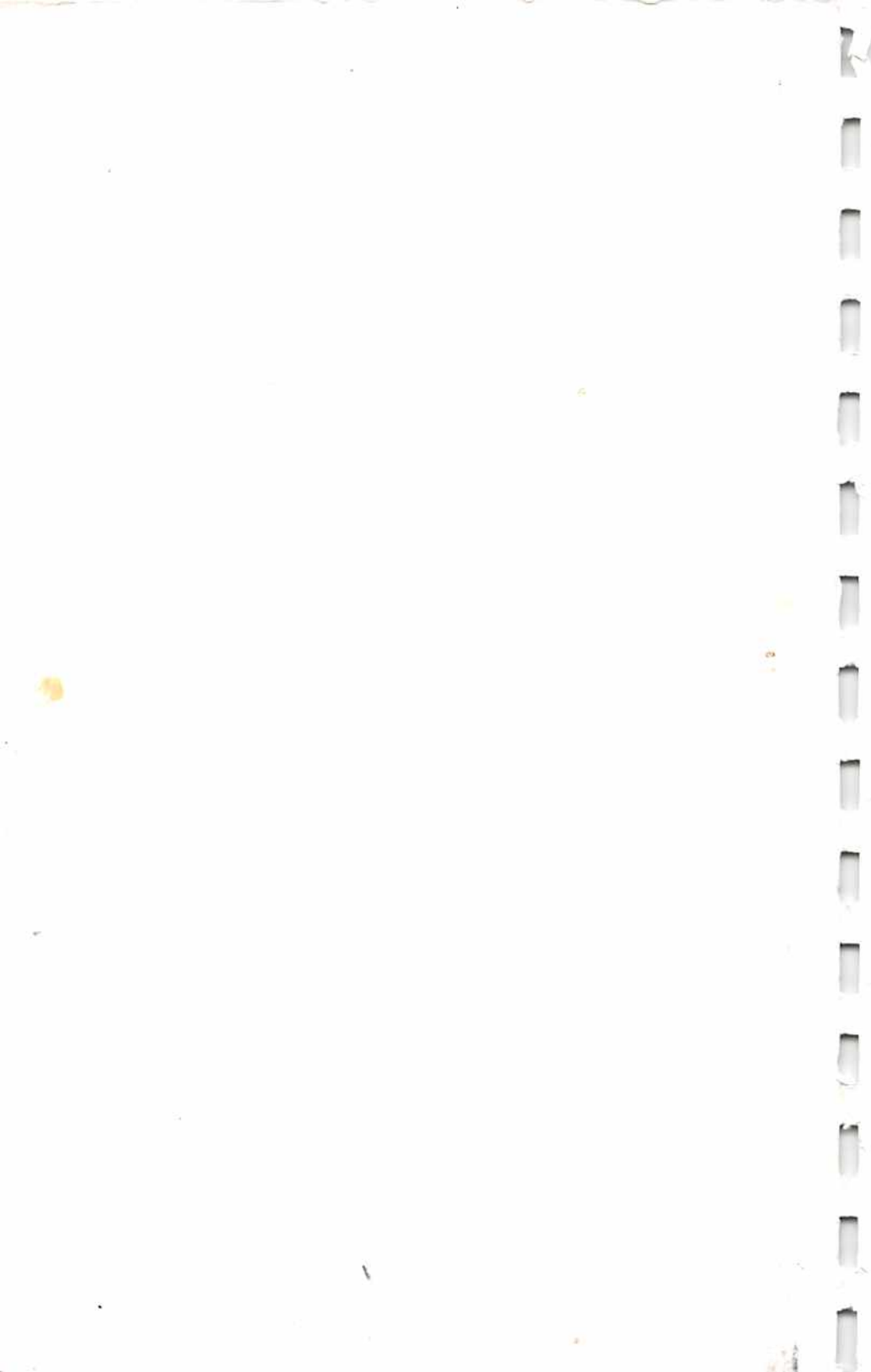


**MAP DRAFTING
and
RELATED COMPUTATIONS
for
PLANE SURVEYING**

FIELD BOOK



**MAP DRAFTING
and
RELATED COMPUTATIONS
for
PLANE SURVEYING**

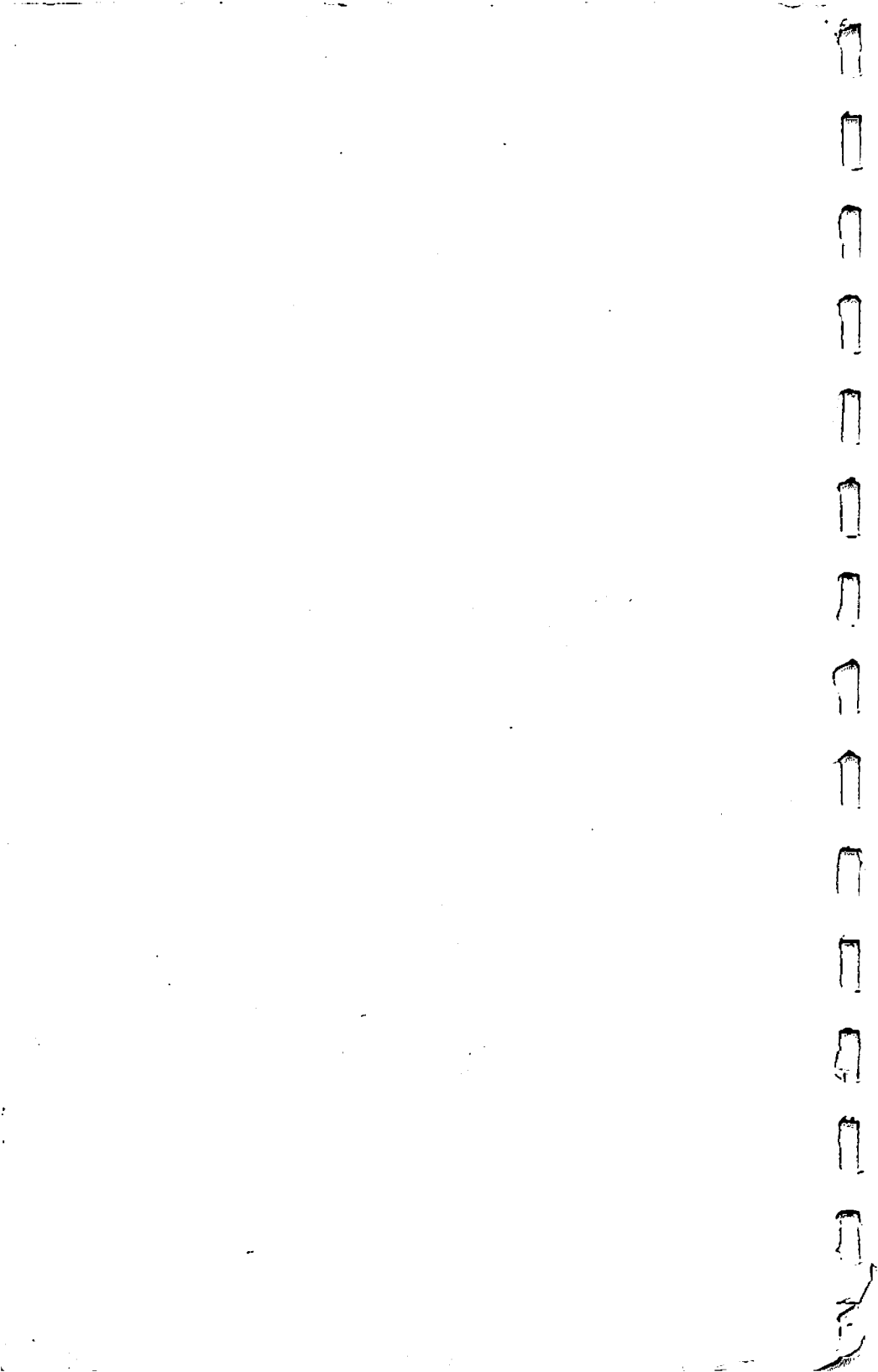
FIELD BOOK

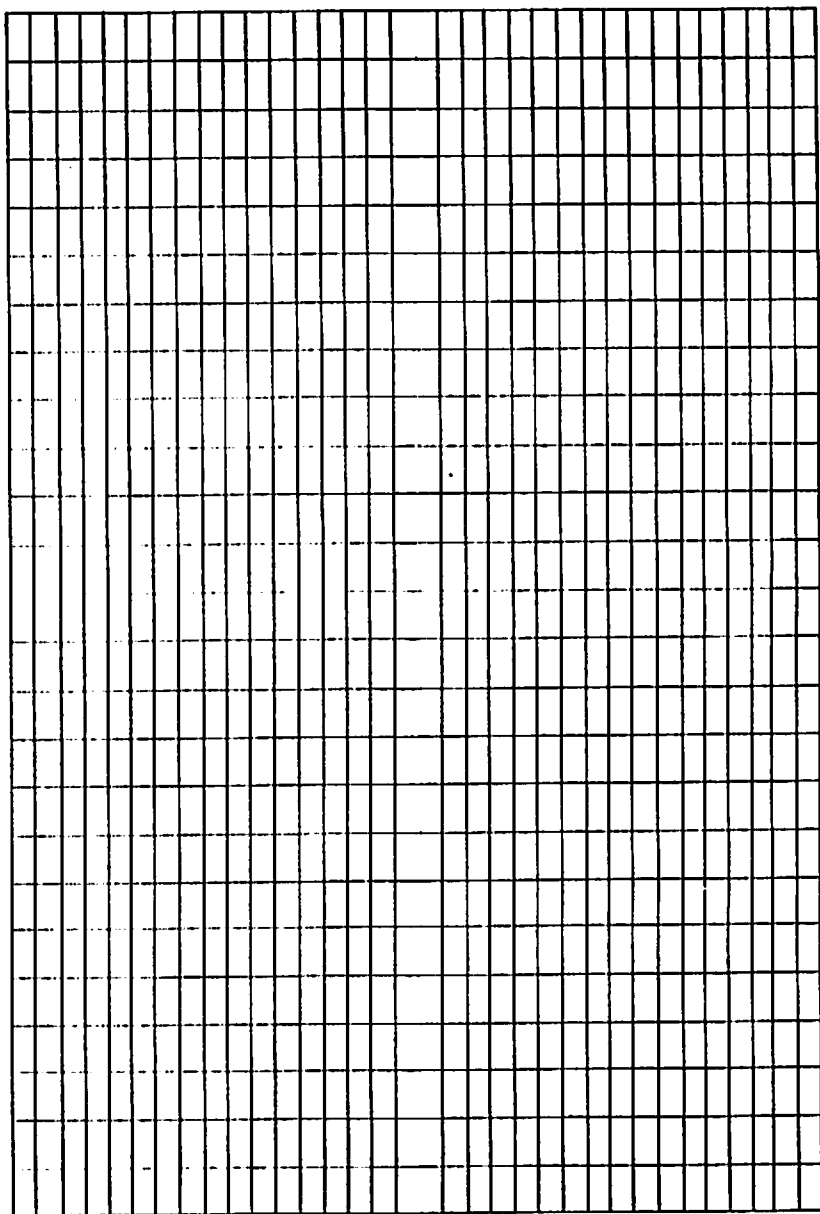
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for the

STATE VOCATIONAL-TECHNICAL SCHOOLS
OF LOUISIANA





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Blank lined page with horizontal ruling lines.



Notes for Fig. 1, Plate 1

L

Sta.	Def. A	Mag. B.	Cal. B.	Remarks
20				
19				
①18+79	47°45' L	N55°30' E	N55°27' E	Point D
18				
17				
16				
15				
14				
13				
①12+42	48°05' R	S76°45' E	S76°48' E	Point C
12				
11				
10				
9				
8				
7				
①6+27	97°45' L	N55°15' E	N55°07' E	Point B
6				
5				
4				
3				
2				
1				
①0+00		S27°08' E	S27°08' E	Point A

Gurley Transit J. Richard, JR
No. 601652 J. Soileau, H.C.
G. Carrier, RC
June 18, 1964
Wx. Fair - Warm

- Note: 1. Hubs set of lettered points and tack pointed.
Guard stakes set and marked.
2. Bearing of line A-B determined by Solar Observation
3. Line stakes set at station points and tacked.

Beginning of Line

End of Line *Finished 4:30 P.M.*

	C. Richard, T
Gurley Transit	G. Carrier, H.C
No. 601652	J. Soileau, R.C.
	June 18, 1964
	W. Fair-Warm
<p>Note: Bearings calculated from Deflection Angle Survey made today by above listed field crew</p>	
<p>Beginning of Line</p>	

Notes For Fig 2, Plate 1, con't.

Sta.	Cal. Bearing	Remarks
32+57		Point H
32		
31		
30		
29		
28		
027+36	S 29° 35' E	Point G
27		
26		
25		
24		
023+69	N 84° 31' E	Point F
23		
22		
21		
020+31	N 55° 08' E	Point E

End of Line *Finished work 3:20 PM.*

Notes for Fig. 3, Plate 1

Sta.	Def. A	Mag. B.	Col. B	Remarks
19				
18				
17				
16				
015+80	59°32'L	N66°00'E	N66°25'E	Point J
15				
14				
13				
12				
011+35	32°38'R	S54°30'E	S54°03'E	Point G
11				
10				
9				
8				
7				
6				
5				
04+74	57°22'R	S86°45'E	S86°41'E	Point D
4+25				
4				
3				
2				
1				
00+00		N35°57'E	N35°57'E	Point A

N&E Transit
No. 151205

J. Fontenot, TX
M. LeBlanc, NC.
L. Cormier, RC.
June 19, 1964
Wx. Cloudy-Warm

Note: Hubs set and tacked
at changes in direction
of line and Guard Stokes
set over hubs

Drainage ditch  2' wide, 1' deep

Beginning of Line

Notes for Fig. 4, Plate 1

Sta.	Dist. Ft.	Cal. B.	Cal. Lat.	Cal. Dep.
1	793	N33°59'E	657.6N	443.3E
2	490	N59°14'E	250.7N	421.0E
3	764	S18°36'E	724.1S	243.7E
4	700	N66°15'E	281.9N	640.7E
5	567	S24°10'E	517.3S	232.1E
6	496	N48°26'E	329.1N	371.1E
7				

J. Fontenot, Computer
M. LeBlanc, Assistant

Monroe Calculator June 9, 1964

Note: Latitudes and Departures
calculated for each course
from Deflection Angle Traverse
ran June 19, 1964 by
J. Somnier, P. LeBlanc and
J. Zerangue

Notes for Fig. 5, Plate 1

Sta.	Def. \angle	Mag. B	Cal. B	Remarks
① 19+99	26°30'R	S66°30'E	S66°20'E	Point Q
19				
18				
17				
16				
15				
14				
① 13+99	23°20'L	N87°00'E	N87°10'E	Point M
13				
12				
11				
10				
9				
① 8+85	41°00'R	S69°30'E	S69°30'E	Point K
8				
7				
6				
① 5+29	45°00'R	N69°30'E	N69°30'E	Point C
5				
4				
3				
2				
1				
① 0+00		N24°30'E	N24°30'E	Point A

KEE Transit
No. 151205

J. Fontenot, N
P. LeBlanc, H.C.
M. LeBlanc, P.C.
June 20, 1964
Wx. Hot-Clear

Note: Bearing of
Line A-C determined
with Gurley Solar Transit
112T No. 600500

End of Traverse Finished Work
at 3:05 P.M.

Notes for Plate 2	Azimuth Control Traverse	Obj.	Dist. Ft.	Azimuth	Mag. B	Cal. B.	Sto.	
			150°23'	S29°45'E	S29°37'E		N	M
			488.92	96°04'	S84°E	S83°57'E	13	↕
			276°04'	N84°W	N83°57'W		M	13
			545.44	93°01'	S87°E	S86°59'E	14	↕
			273°01'	N87°W	N86°59'W		13	
			525.88	82°19'	N82½°E	N82°19'E	15	↕
			262.19'	S82½°W	S82°19'W		14	15
			134.95	82°49'	N82½°E	N82°49'E	16	↕
			272°49'	S82½°W	S82°49'W		15	16
			98.51	108°11'	S71½°E	S71°49'E	T	↕
			288°11'	N7½°W	N71°49'W		16	T
			403.97	184°52'	S5°W	S4°52'W	U	↕
			49°52'	N5°E	N4°52'E		T	U
			195.57	178°40'	S1½°E	S1°20'E	V	↕
			358°40'	N1½°W	N1°20'W		U	V
			210.67	181°41'	S1¾°W	S1°41'W	M	↕
			104°11'	N1¾°E	N1°41'E		V	M
			96.26	184°57'	S5°W	S4°57'W	X	
			49°57'	N5°E	N4°57'E		M	X
			706.96	277°24'	N82½°W	N82°36'W	Y	
			97°24'	S82½°E	S82°36'E		X	Y
			345.07	268°37'	S88½°W	S88°37'W	Z	

South City Park, Opelousas, La.

Gurley Transit J. Zerangue, Jr

No. 601652 A. Seileod, M.C.

G. Carrier, R.C.

June 17, 1964

Wx. Hot-Clear

Note: 1. Azimuth from North
2. Azimuth of line N-13
determined with Gurley
Solar Transit 112T.

No. 600500

3. Declination determined
to be $7\frac{1}{2}^{\circ}$ East. Compass
ring set for needle to
read true bearings
4. Hubs set and locked
at corners.

Sta.	Obj.	Dist. Ft.	Az.	Mag.	Col.
Z	Y	88°37'	N88½°E	N88°37'E	
C	C	417.72	268°37'	S88½°W	S88°37'W
C	Z	88°37'	N88½°E	N88°37'E	
B	B	228.73	359°20'	N0½°W	N0°40'W
B	C	179°20'	50½°E	50°40'E	
A	A	99.87	0°00'	North	North
A	B	180°00'	South	South	South
N	N	383.47	332°45'	N27½°W	N27°15'W
N	A	152°45'	S27½°E	S27°15'E	
M	M	191.35	330°23'	N29½°W	N29°37'W
M	N	150°23'	S29½°E	S29°37'E	
Az. Error 0°00'					

Notes for Plate 2 cont.

Capped pipe set in concrete

Capped pipe set in concrete

Notes for Plate 3

12

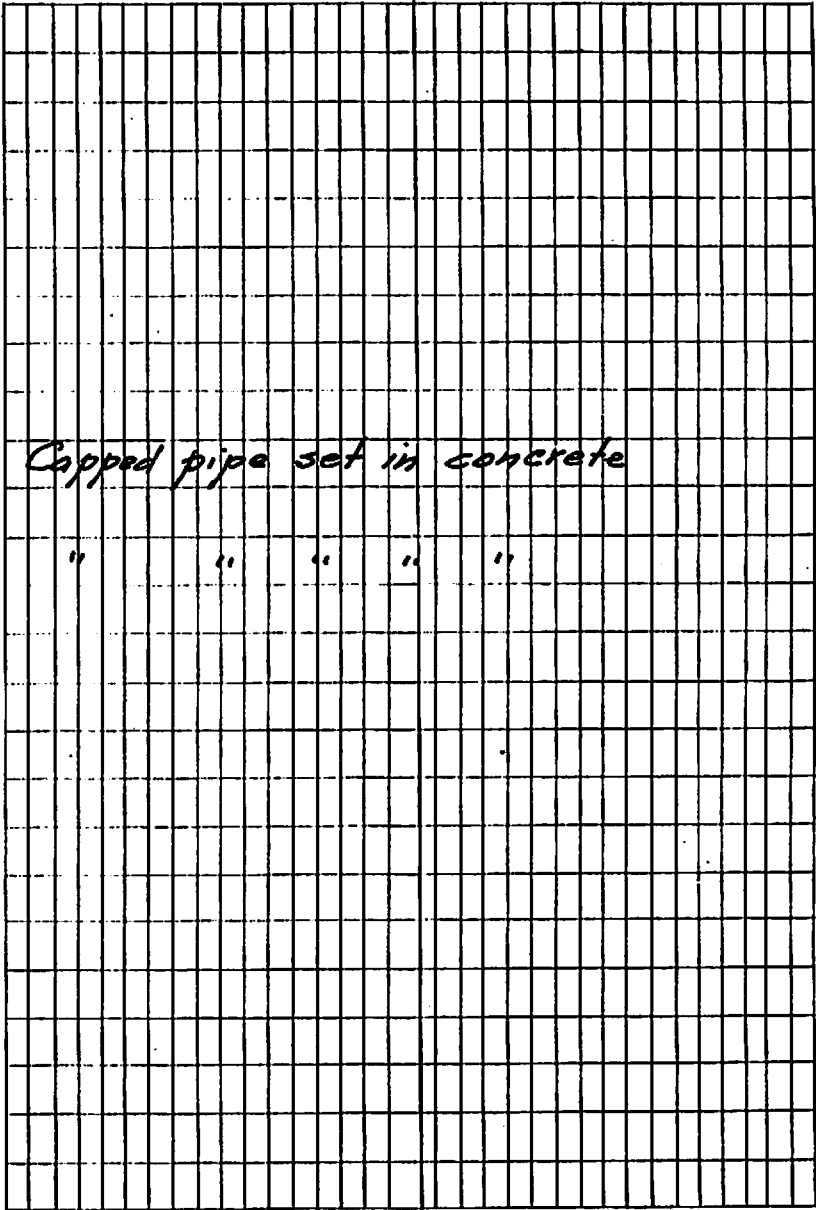
Deflection Angle Traverse

Sta.	Dist. Ft.	Def. \angle	Cal. B.	T. Lat.	T. Dep.
A		27°15'L		0.0	0.0
	383.47		N27°15'W		
N		2°22'L		340.9N	175.6W
	191.35		N29°37'W		
M		125°41'R		^{from O} 507.3N	270.2W
	488.32		S83°56'E		
13		3°03'L		455.6N	215.4E
	545.44		S86°59'E		
14		10°42'L		426.9N	760.1E
	525.88		N82°19'E		
15		0°30'R		497.2N	1281.3E
	134.95		N82°49'E		
16		25°22'R		514.0N	1415.2E
	98.51		S71°49'E		
T		76°41'R		483.3N	1508.8E
	403.97		S4°52'W		
U		6°12'L		80.7N	1474.5E
	195.57		S1°20'E		
V		3°01'R		114.8S	1479.1E
	210.67		S1°41'W		
W		3°16'R		325.4S	1472.9E
	76.26		S4°57'W		
X		92°27'R		401.3S	1466.3E

J. Sonnier, π
J. Fontenot, H.C.
M. LeBlanc, R.C.
Wx. Fair-Warm
July 17, 1964

Note: 1. Latitudes and Departures
computed by Sonnier and
Fontenot on 7-16-64 and
entered in columns 5 & 6
of these notes for plotting
purposes.

2. True Bearing of Line
A to N known from Solar
Observation



Capped pipe set in concrete

" " " " "

Notes for Fig. 1, Plate 4

Deflection Angle Traverse 1

Sta.	Dist. Ft.	Def. \angle	Col. B	Total Lat	Total Dep.
				2195.1S	5227.2E
	831.22				
68+02.70		66°16'L	N57°12'E 39°	2715.9S	4579.4E
	1353.00				
54+49.70		44°56'R	S62°32'E 333°	2091.9S	3378.9E
	1389.90				
40+59.80		35°46'R	N72°36'E 17°	2507.5S	2052.6E
	804.00				
32+55.80		72°30'L	N36°46'E 53°	3151.6S	1571.4E
	853.60				
24+02.20		62°48'L	S70°44'E 341°	2870.0S	765.6E
	1495.20				
9+07.00		30°08'R	S7°56'E 278°	1389.1S	559.2E
	907.00				
0+00			S38°04'E 308°	675.0S	0.0

P1

Gurley Transit
No. 601652

Marks, T
Johns, H.C
Briggs, R.C.
June 12, 1964
Wx. Warm - Clear

Note: Bearing of Line
0+00 to 9+27.00 determined
by Solar Observation on 6-11-64

Notes for Fig. 2, Plate 4

Deflection Angle Traverse 2

Sta.	Dist. Ft.	Def. \angle	Cal. B	Total Lat.	Total Dep.
73+43.35				660.85	5255.1 E
	850.00				
64+93.35		75°00' R	S58°32' E	217.15	4530.1 E
	982.95		329		
55+10.40		43°06' L	N46°28' E	894.15	3817.5 E
	925.00		44		
45+85.40		45°16' R	N79°34' E	1061.65	2907.8 E
	800.00		10		
37+85.40		48°26' L	N34°18' E	1722.55	2457.0 E
	1025.00		56		
27+60.40		52°46' L	N82°44' E	1852.15	1440.2 E
	728.67		4		
20+71.33		33°42' L	S44°36' E	1932.45	929.5 E
	1956.43		315		
6+75.30		79°12' R	S10°48' E	0.0	675.3 E
	675.30				
0+00			East	0.0	0.0
P.1					

Marks,	TK
Briggs	H.C.
Anderson	R.C.
wx. Warm-Cloudy	
June 14, 1964	

Note: Line 0+00 to 6+75.30
staked out due East
with Gurley Solar Transit

Notes for Curve Data Fig. 1, Plate 4

Sta.	Point	Def. Δ	Bearing	Curve
20		1°46'		Data.
19+56.0	⊙ PC			
19 ^{8'}				
18				
17				
16				
15				
14				
13				
12				
11				
10+70.4	⊙ P.T	15°05'	S7°56'E	D=9°R
10 ^{123°}		11°55'		I=30°10'
9		7°25'		-T=171.8'
8		2°55'		-R=637.3'
7+35.2	⊙ PC.			L=335.2'
7 ^{218'}				
6				
5				
4				
3				
2				
1				
0+00			S38°04'E	

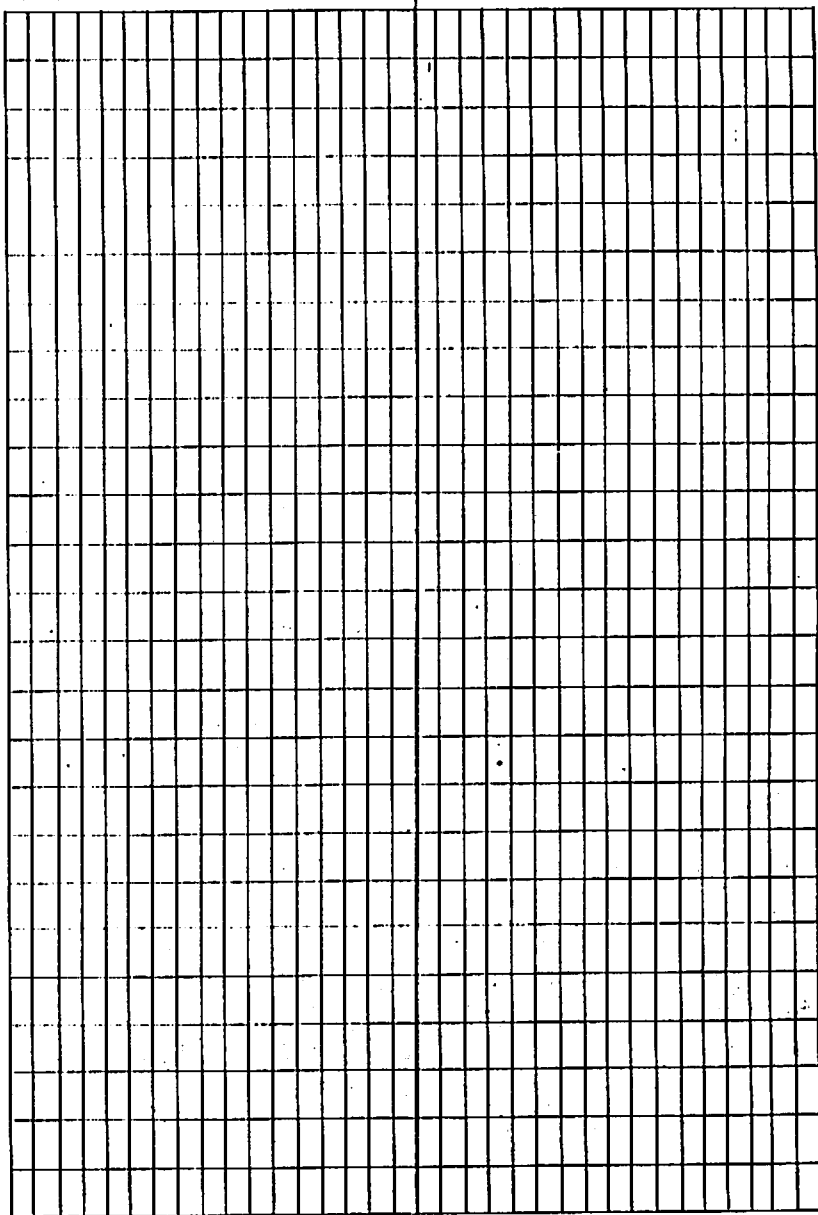
Marks, Computer
 Briggs, Asst. Computer
 Friden Automatic
 Calculator \sqrt{SRW} Anderson, Checker
 June 20, 1964

Curves calculated and entered
 by above men. Notes prepared
 for staking out curves in field
 and for plotting. Chord Method
 and Chord Definition used.

Marks, π
 Briggs, H.C.
 Anderson, P.C.
 June 24, 1964

Curves for Traverse 1 staked
 out in field - mutes

Sta.	Point Def. & Bearing Curve	Data
	Notes for Curve Data, Fig. 1, Plate 4 cont.	
41		15°16'
40		12°53'
		D = 4946' R
39		10°30'
		I = 95°46'
38		8°07'
		- T = 388.2
37		5°44'
		- R = 1203.1
36		3°21'
		L = 750.4
35		0°58'
		P.R.C. 36°15'
34		33°16'
		143°
33		28°13'
		D = 10°06.7
32		23°10'
		I = 72°30'
31		18°07'
		- T = 415.8
30		13°04'
		- R = 567.1
29		8°01'
		L = 717.8
28		2°58'
		P.R.C. 31°25'
27		29°46'
		71°
26		25°46'
		D = 8.7
25		21°46'
		I = 62°50'
24		17°46'
		- T = 437.8
23		13°46'
		- R = 716.7
22		9°46'
		L = 785.4
21		5°46'



Notes for Curve Data Fig. 1, Plate 4, cont.					
Sta.	Point Def. & Bearing Curve				
	Data.				
61					
60					
59					
58					
57					
56					
55	62	22°28'	S62.32E		
54		17°31'		I = 44°56'	D = 6° R
53		14°31'		T = 3950	
52		11°31'		R = 955.3	
51		8°31'		L = 7489	
50		5°31'			
49		2°31'			
48+16.3	P.C.				
48	287				
47					
46					
45					
44					
43					
42	107	17°39'			
42+09.6	P.T.	17°53'	N72.36E		

Notes for Curve Data, Fig 1, Plate 4, con't

Sta Point Def & Bearing Curve
Data

72+55.82

72

71

70

69

68

67+85.1 OPT. 33°08' N51°12'E

309

67

28°27'

D=110L

66

22°27'

I=66°16'

65

17°27'

T=340.5

64

11°57'

R=521.7

63

6°27'

L=602.4

62

0°57'

64+82.7 @ PC.

63

End of Traverse

Notes for Curve Data, Fig 2, Plate 4

Sta.	Chord	Def. \angle	Point	Curve Data
20	99.96	11°13'		D = 5°31' L
19	99.96	8°28'		I = 33°42'
18	99.96	5°43'		- R = 1041.74
17	99.96	2°58'		- T = 315.51
16	7.72	0°13'		L = 612.73
15+92.28			o P.C.	
15 "				
14				
13				
12				
11				
10				
9+57.7	57.64	39°36'	o P.T.	S 10°48' E
9 "	99.83	36°17'		D = 11°30' R
8	99.83	30°32'		I = 79°12'
7	99.83	24°47'		- R = 498.22
6	99.83	19°02'		- T = 406.34
5	99.83	13°17'		L = 688.70
4	99.83	7°32'		320
3	31.01	1°47'		
2+69.0			o P.C.	
2 269				
1				
0+00				East

Friden Automatic
Calculator YSRW

Sonnier, Computer
LeBlanc, Ass't. Computer
Zeranque, Checker
June 21, 1964

Note: Curves for Traverse 2
calculated and entered in notes
for staking out and plotting
Arc Definition of degree of
curve used. Curve tables used.

Sonnier, K
LeBlanc, H.C.
Zeranque, R.C.
Wx. Fair-Harm
June 25, 1964

Curves for Traverse staked
in field - Sonnier

Notes for Curve Data, Fig 2, Plate 4, con't.

Sta.	Chord	Def. Δ	Point	Curve Data.
40				
39+07.72	7.72	24°13'	P.T.	N34°18'E
39 146	99.94	23°57'		D = 7°
38	99.94	20°27'		I = 48°26
37	99.94	16°57'		R = 818.58
36	99.94	13°27'		T = 368.17
35	99.94	9°57'		L = 691.90
34	99.94	6°27'		31
33	84.14	2°57'		
32+15.82			P.C.	
32 277				
31				
30				
29+72.15	72.13	26°23'	P.T.	N82°44'E
29 97	99.94	23°54'		
28	99.94	20°28'		D = 6°52.7'
27	99.94	17°01'		I = 52°46'
26	99.94	13°35'		R = 832.98
25	99.94	10°09'		T = 413.19
24	99.94	6°42'		L = 767.14
23	94.96	3°16'		341
22+05.01	5.01	16°51'	P.C.C.	
22 225	99.96	16°43'		
21	99.86	13°58'		

A large grid of graph paper, approximately 30 columns wide and 40 rows high. A vertical line runs down the center of the grid, and a horizontal line runs across the middle, intersecting at the center. The grid is composed of small squares, with the vertical and horizontal lines dividing it into four quadrants.

Notes for Curve Data Fig. 2, Plate 4, con't.

Sta.	Chord	Def. A.	Point	Curve Data
59	99.03	16°07'		D = 11°30'
58	99.83	10°22'		I = 75°00'
57	99.83	4°37'		R = 498°22'
56 ± 12.64	00.25		o P.C.	T = 382.30, L = 652.17
56 ³¹⁴				6
55				
54 ± 73.11	73.08	16°33'	o P.T.	N 46°28'E
54 ³¹⁹	99.94	14°06'		D = 6°42'
53	99.94	10°45'		I = 33°06'
52	99.94	7°24'		R = 855.16
51	99.94	4°03'		T = 254.12
50	20.92	0°42'		L = 494.03
49 ± 79.00			o P.C.	27
49 ¹⁶⁰				
48				
47				
46 ± 06.81	6.81	22°38'	o P.T.	N 77°34'E
46 ¹⁰⁰	99.92	22°22'		D = 8°
45	99.92	18°22'		I = 45°16'
44	99.92	14°22'		R = 716.20
43	99.92	10°22'		T = 298.61
42	99.92	6°22'		L = 565.84
41	59.01	2°22'		33
40 ± 40.97			o P.C.	
40 ³²⁶				

End of Line

Notes for Plate 6

DEFLECTION ANGLE TRAVERSE

Sta Def X Mag B Col B

34+48.4

26+00 22°13' L N75°45' E N75°45' E

TURN -02

11+09.0 12°32' R S82°0' E S82°02' E

0+00 N85°30' E N85°26' E

1141

Turn 072.0 bearing 114.0

1141

Gurley Transit G. Carrier, π
1127 No. 600500 J. Fontenot, H.C.
J. Zerangue, R.C.
Wx. Fair-Warm
July 18, 1964

Note: Bearing of Line
0°00 to 11489 from Solar
Observation

Tacked hubs set at
changes in direction.
Stakes set at all other
stations

Hub set

Hub set

Hub set

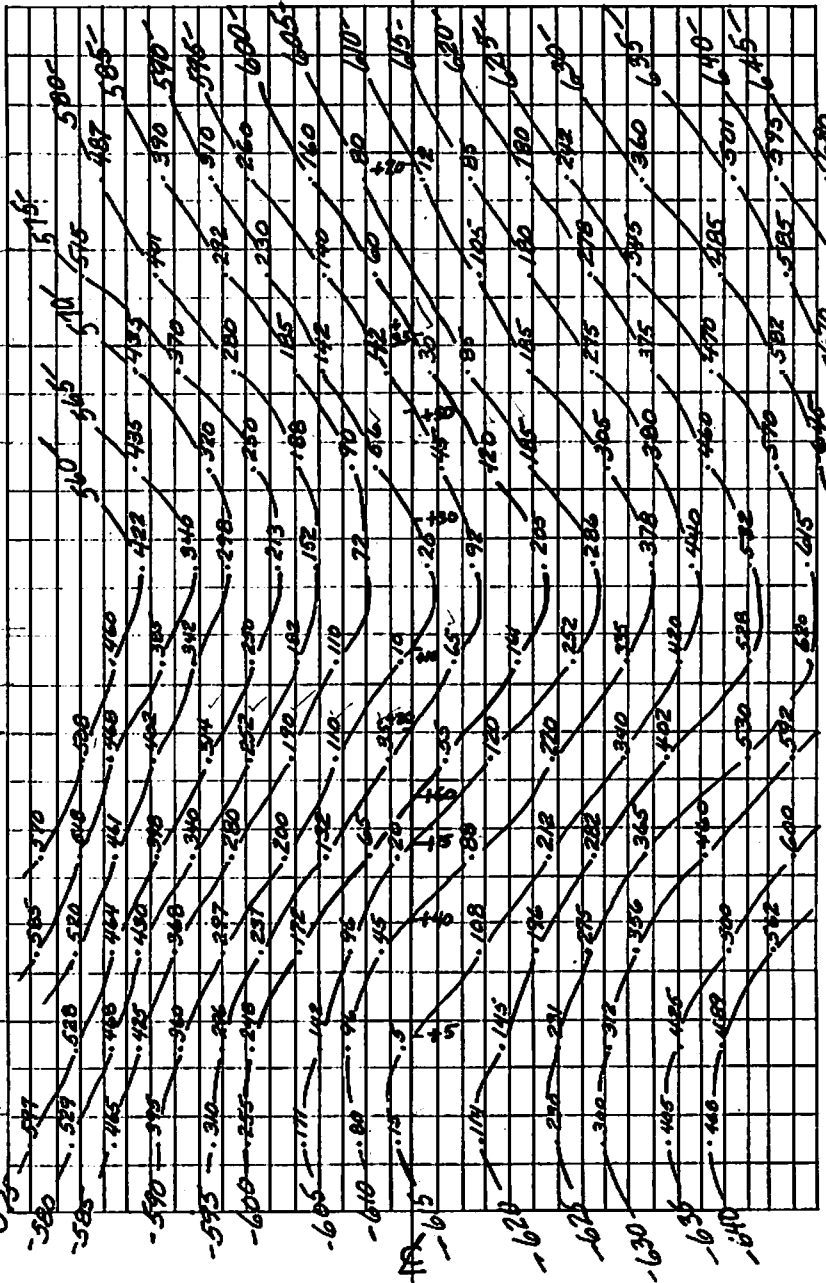
Iron pipe

NOTES FOR PLATE 6
CROSS SECTIONS

25

Sta.	Def. &	Col. B	Elev.
10			609.3
9			605.0
8			598.2
7			593.3
6			589.2
5			590.2
4			597.2
3			605.8
2			611.9
1			615.1
0+00		N 85° 26' E	615.8

11



11

Notes for Plate 6, con't.

Sta.	Def &	Cal. B	Elev.	
20			625.3	
+90			625.0	
19			620.0	
18			615.0	
+10			610.0	
17			609.5	
16			606.1	
+90			605.0	
15			606.1	
+45			610.0	
14			612.2	
+12			615.0	
13			615.8	
12			617.8	
11+89	12°32'R	S82°02'E	617.8	
11			615.0	

Notes for Plate 6, con't.

Sta.	Def. α	Col. β	Elev.
26			
26+00	22°13'L	N75°45'E	631.4
25			
25			631.0
24			
24			632.5
23			
23			634.9
22			
22			634.5
21			
21			630.4

Left

£

Right

				$\frac{570}{600}$	$\frac{475}{605}$	RAIS to 5.82° 02'E Line				
$\frac{422}{610}$	$\frac{300}{615}$	$\frac{220}{620}$	$\frac{130}{625}$	$\frac{20}{630}$	$\frac{70}{635}$	$\frac{120}{640}$	$\frac{192}{645}$	$\frac{245}{650}$	$\frac{333}{655}$	
				$\frac{514}{600}$	$\frac{430}{605}$					
$\frac{372}{610}$	$\frac{255}{615}$	$\frac{180}{620}$	$\frac{100}{625}$	$\frac{15}{630}$	$\frac{58}{635}$	$\frac{115}{640}$	$\frac{168}{645}$	$\frac{270}{650}$		
				$\frac{500}{600}$	$\frac{436}{605}$					
$\frac{365}{610}$	$\frac{255}{615}$	$\frac{180}{620}$	$\frac{100}{625}$	$\frac{30}{630}$	$\frac{30}{635}$	$\frac{75}{640}$	$\frac{145}{645}$	$\frac{530}{650}$		
				$\frac{525}{600}$	$\frac{470}{605}$					
$\frac{390}{610}$	$\frac{280}{615}$	$\frac{200}{620}$	$\frac{125}{625}$	$\frac{55}{630}$	$\frac{10}{635}$	$\frac{65}{640}$	$\frac{475}{645}$			
				$\frac{505}{600}$	$\frac{430}{605}$					
$\frac{442}{610}$	$\frac{310}{615}$	$\frac{222}{620}$	$\frac{165}{625}$	$\frac{70}{630}$	$\frac{15}{635}$	$\frac{450}{640}$				
				$\frac{610}{600}$	$\frac{533}{605}$					
$\frac{460}{610}$	$\frac{342}{615}$	$\frac{255}{620}$	$\frac{180}{625}$	$\frac{15}{630}$	$\frac{390}{635}$	$\frac{550}{640}$				

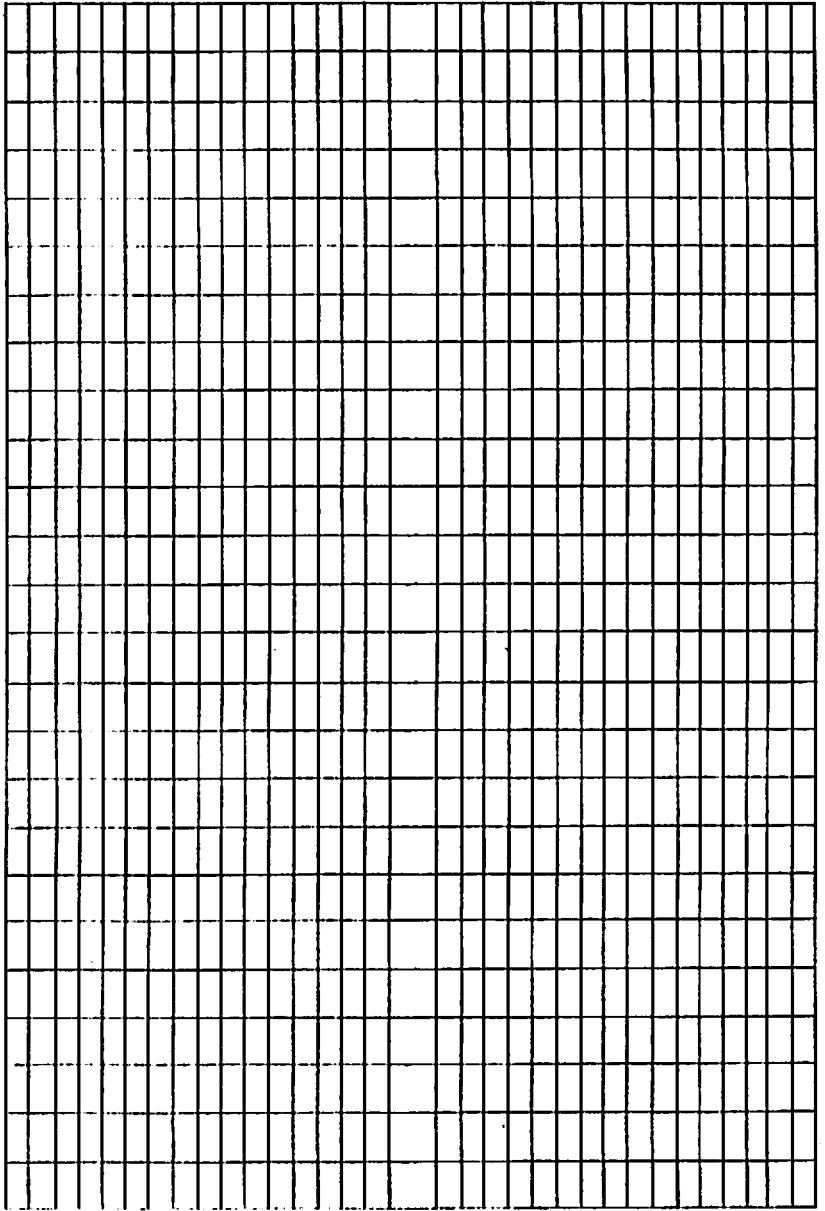
£

Notes for Plate 6, cont.

Sta.	Def. &	Cal. B	Elev.		
31					
31			640.8		
30					
30			638.9		
29					
29			635.8		
28					
28			632.5		
27					
27			630.8		
26					
26					

Notes for Plate 6, con't

Sta.	Def. &	Cal. B	Elev.		
34+48.4					
34+48.4			638.3		
34					
34			638.8		
33					
33			640.3		
32					
32			642.3		



Deflection Angle Control Traverse

Sta	Dist. Ft.	Def. & Cal. B	Cal. Az.
A	81.01 R		
A	595.30	N 89° 58' W	351° 02'
B			18° 29' R
B	686.76	N 9° 31' E	9° 31'
C			33° 28' R
C	552.35	N 42° 59' E	42° 59'
D			76° 53' R
D	712.24	S 60° 08' E	119° 52'
E			60° 44' R
E	375.47	S 0° 04' E	179° 56'
F			9° 34' L
F	491.12	S 9° 38' E	170° 22'
G			64° 02' R
G	781.86	S 54° 24' W	234° 24'
H			35° 37' R
H	461.90	N 89° 59' W	270° 01'
A			
			Σ 360° ok

K.S.E. Transit
No. 62500

L. Cormier, T.S.
M. LeBlanc, Notes
P. LeBlanc, H.C.
G. Carrier, R.C.
Wx. Warm-Cloudy
June 8, 1964

Note: 1. Bearing of Line A-B
determined with Gurley
Solar Transit IRT # 600500

2. Bearings and Azimuths
calculated by F. Bedraux
on 6-9-64

Blank lined page with horizontal ruling lines.



PLATE 7

31

CALCULATION OF COORDINATES FOR

Adjusted Lat. Adjusted Dep.

Sta	N	S	E	W
A				
B	588.02			92.81
C	677.29		113.63	
D	404.00		376.57	
E		354.70	617.54	
F		375.47	0.40	
G		484.20	82.17	
H		465.18		635.70
A	0.16			461.90
Σ's	1669.55	1669.55	1190.41	1190.41
	checks o.k			

HORIZONTAL CONTROL TRAVERSE

Total Lat.	Total Dep.	
		J. Zerangue, Computer
370.00N	450.00E	P. LeBlanc, Ass't Comp.
		June 10, 1964
959.02N	357.19E	
		Manroe Calculator
1635.31N	470.82E	
2037.39N	847.39E	
1624.49N	1445.03E	
1309.22N	1465.43E	
875.02N	1547.60E	
369.24N	911.90E	
370.00N	450.00E	

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NOTES FOR PLATE 7

<u>Inst. at</u>	<u>Sta. A</u>	<u>Elev.</u>	<u>463.5</u>	<u>H.I.</u>	<u>4.7</u>
<u>Obj.</u>	<u>Az.</u>	<u>Vert. \angle</u>	<u>Rod. Int.</u>	<u>Diff. El.</u>	<u>Hor. Dist.</u>
		<u>Azimuth from North</u>			
<u>B</u>	<u>351°02'</u>				
<u>1</u>	<u>115°14'</u>	<u>-2°32'</u>	<u>3.06</u>	<u>-13.5</u>	<u>305</u>
<u>2</u>	<u>121°30'</u>	<u>-2°50'</u>	<u>2.74</u>	<u>-13.5</u>	<u>273</u>
<u>3</u>	<u>133°16'</u>	<u>-2°52'</u>	<u>2.71</u>	<u>-13.5</u>	<u>270</u>
<u>4</u>	<u>148°35'</u>	<u>-3°12'</u>	<u>2.43</u>	<u>-13.5</u>	<u>242</u>
<u>5</u>	<u>162°40'</u>	<u>-2°48'</u>	<u>2.77</u>	<u>-13.5</u>	<u>276</u>
<u>6</u>	<u>178°31'</u>	<u>-2°29'</u>	<u>3.13</u>	<u>-13.5</u>	<u>312</u>
<u>7</u>	<u>185°00'</u>	<u>-2°08'</u>	<u>3.63</u>	<u>-13.5</u>	<u>362</u>
<u>8</u>	<u>122°55'</u>	<u>-2°36'</u>	<u>2.07</u>	<u>-9.4</u>	<u>207</u>
<u>9</u>	<u>132°10'</u>	<u>-2°46'</u>	<u>1.94</u>	<u>-9.4</u>	<u>194</u>
<u>10</u>	<u>139°12'</u>	<u>-2°53'</u>	<u>2.06</u>	<u>-10.3</u>	<u>205</u>

			L. Cormier, TR
Elev.			E. Anderson, Rod
			A. Soileau, Notes
			June 15, 1964
			Wx: Fair-Clear
450.0	Water Edge		
450.0	" "		Note: 1. At each setup
450.0	" "		Rod Index always same
450.0	" "		as HI to simplify elevation
450.0	" "		calculations
450.0	" "		2. Azimuth from North
450.0	" "		
450.0	" "		
450.0	" "		
450.0	" "		
454.1	N.E. Cor. 20' x 30' Camp - Rear		
454.1	N.W. Cor. 20' x 30' Camp with 15' x 10' Porch		
453.2	E 10' Road		

Obj.	Az.	Vert. & Rod Int.	Diff. El.	Hor. Dist.
Inst. of Sta. A	Elev. 463.5	H.I. 4.7		
11	173°05'	-2024'	1.36	-5.7
12	223°38'	-0°22'	1.56	-1.0
13	250°33'	+1004'	2.62	+4.9
14	289°05'	+2°29'	0.92	+4.0
15	37°04'	+0°48'	2.51	+3.5
16	44°03'	+0°32'	4.11	+3.8
17	249°42'	+0°45'	3.68	+4.8
18	243°45'	+0°27'	4.72	+3.7
19	18°00'	+1°41'	2.52	+7.4
20	328°04'	+2°56'	2.41	+12.3
21	305°10'	+2°51'	3.65	+18.1
22	300°04'	+2°35'	4.86	+21.9

33

PLATE 7, cont

PLATE 7, con't.

35

Inst. at Sta. B Elev. 490.6 H.I. 5.0

Obj	Az.	Vert. A	Rod Inf.	Diff. E	Hor. Dist.
A	171°02'				
1	51°51'	-1°21'	6.65	-15.6	665
2	50°52'	-1°03'	5.87	-10.7	587
3	38°24'	-0°52'	4.20	-6.3	420
4	16°34'	-0°27'	3.90	-3.1	390
5	345°34'	+0°39'	3.86	+4.4	386
6	330°47'	+1°50'	3.61	+11.5	361
7	316°32'	+2°54'	2.32	+11.4	232
8	353°33'	+1°16'	1.98	+4.4	198
9	31°20'	+0°08'	2.10	+0.5	210
10	56°43'	-0°39'	3.01	-3.4	301
11	67°46'	-1°09'	4.60	-9.2	460

Elev.	
475.0	GP
478.9	"
484.3	"
487.5	"
495.0	"
502.1	Crest of NW1
502.3	" " "
495.0	GP
491.1	"
487.2	"
481.4	"

PLATE 7, con't.

36

Inst.	at Sta. B	Elev. 490.6	H.I. 5.0		
Obj	Az.	Vert. \angle	Rod Int.	Diff. El.	Hor. Dist.
12	92°05'	2°07'	4.91	-18.1	490
13	103°10'	2°19'	3.32	-13.4	332
14	91°20'	2°10'	1.58	-6.0	158
15	231°53'	0°29'	0.72	-0.6	72
16	272°10'	+1°15'	2.38	+5.2	238
17	286°20'	+0°32'	3.57	+3.3	357
18	246°19'	+0°06'	3.49	+0.6	349
19	209°01'	-1°13'	2.31	-4.9	231
20	105°31'	-2°11'	3.88	-14.0	387
21	196°00'	-2°56'	3.04	-15.5	303

Stop

PLATE 7, cont

37

Inst. at Sta. C, Elev. 483.4, H.F. 5.0					
Obj	Az.	Vert. \angle	Rod. Int.	Diff. El.	Hor. Dist.
D	42°59'				
1	946°59'	-0°08'	6.21	-1.4	621
2	334°27'	+0°19'	6.62	+3.6	662
3	352°26'	-0°07'	4.53	-0.9	453
4	336°10'	+0°43'	4.55	+5.7	455
5	322°10'	+0°59'	5.18	+8.9	518
6	18°36'	-1°02'	2.92	-5.3	292
7	353°40'	+0°02'	2.39	+0.1	239
8	322°51'	+1°17'	2.94	+6.6	294
9	302°26'	+1°59'	3.99	+13.8	398
10	292°41'	+2°55'	3.66	+18.6	365
11	263°30'	+3°05'	3.47	+18.6	346

PLATE 7 cont.

38

Inst at Sta C	Elev. 483.4	H.I. 5.0			
Obj	Az.	Vert. & Rod Int.	Diff. El.	Hor. Dist	
12	278°31'	+2°30'	2.60	+11.3	260
13	321°42'	+1°02'	0.78	+1.4	78
14	77°06'	-3°11'	1.52	-8.4	151
15	109°53'	-2°19'	3.20	-12.9	319
16	131°41'	-1°33'	1.89	-5.1	189
17	201°00'	+0°59'	1.34	+2.3	134
18	238°42'	+2°07'	1.78	+6.6	178
19	249°31'	+2°10'	3.61	+13.6	360
20	232°51'	+2°40'	3.93	+13.7	393
21	247°37'	+1°16'	4.72	+10.4	472
Sta I	281°54'	+3°17'	3.42	+12.6	341

PLATE 7 cont

39

Inst. at Sta	D.	Elev.	463.8	H.I	5.4
Obj	Az.	Vert. \pm	Rod Int	Diff. El.	Hor. Dist
Sta. E	119°52'				
1	55°47'	-2°19'	4.66	-18.8	465
2	64°22'	-2°26'	4.42	-18.8	441
3	76°01'	-2°21'	4.58	-18.8	457
4	90°06'	-2°12'	4.91	-18.8	490
5	94°15'	-2°00'	5.41	-18.8	540
6	88°02'	-2°11'	4.28	-16.3	427
7	90°54'	-2°07'	4.43	-16.3	442
8	94°58'	-1°59'	4.56	-15.8	455
9	104°50'	-1°39'	4.79	-13.8	479
10	49°06'	-2°03'	3.87	-13.8	386
11	32°00'	-1°18'	2.90	-6.6	290

Elv	
445.0	Lake Edge
445.0	" "
445.0	" "
445.0	" "
445.0	" "
447.5	N.W. Cor. Road. 30' x 20' Camp
447.5	S.W. Cor. Road. 30' x 20' Camp
448.0	E and end of 10' Road
450.0	E 10' wide Road
450.0	GP
457.2	"

PLATE 7, cont

40

Inst	at Sta	D	Elev.	463.8	H.I.	5.4
Obj	Az.	Vert. \angle	Rad.	Int.	Diff. El.	Hor. Dist.
12	0°06'	-0°34'	2.20	-2.2	220	
13	323°32'	+0°29'	2.71	+2.3	271	
14	307°14'	+0°56'	3.81	+6.2	381	
15	298°08'	+1°23'	4.47	+10.8	447	
16	282°17'	+2°11'	2.60	+9.9	260	
17	311°14'	+1°25'	1.21	+3.0	121	
18	75°07'	-2°10'	1.22	-4.6	122	
19	85°02'	-2°02'	3.00	-10.6	300	
20	104°58'	-1°41'	3.90	-11.5	390	
21	126°24'	-1°16'	2.58	-5.7	258	
22	184°30'	+0°24'	1.67	+1.2	167	
23	207°52'	+1°13'	2.51	+5.3	251	

Elev	
461.6	GP
466.1	"
470.0	"
474.6	"
473.7	"
466.8	"
459.2	"
453.2	"
452.3	"
458.1	"
465.0	"
469.1	"

PLATE 7, con't.

41

Inst at Sta D Elev. 463.8 H.I 5.4					
Obj	Az	Vert \angle	Rod Int.	Diff. El	Hor. Dist.
24	195°58'	+0°46'	4.29	+5.8	4.29
25	161°13'	+0°03'	4.35	+0.4	4.35
26	123°40'	-1°03'	4.42	-0.1	4.42
Inst at Sta E Elev. 451.5 H.I 4.9					
Sta. F 179°56'					
1	358°11'	-1°31'	2.45	-6.5	2.45
2	28°12'	-2°20'	1.60	-6.5	1.60
3	59°10'	-1°36'	2.32	-6.5	2.32
4	74°51'	-1°12'	3.09	-6.5	3.09
5	81°25'	-0°45'	5.02	-6.5	5.02
6	86°15'	-0°32'	4.84	-4.5	4.84
7	88°31'	-0°28'	4.89	-4.0	4.89

Elev			
4686	GP		
4642	"		
4537	"		
4450	Waters Edge		
4450	"	"	
4450	"	"	
4450	"	"	
4450	"	"	
4470	NW Cor. 30'x20' Camp		
4475	SW Cor. 30'x20' Camp		

PLATE 7. con't

42

Inst	at Sta	E	Elev	4515	H.T.	4.9
Obj.	Az.	Vert	X Rod	Int	Diff	El Hor. Dist.
8	89°27'	-0°22'	5.21	-3.3	521	
9	99°03'	-0°05'	3.79	-0.6	379	
10	119°26'	+0°30'	2.57	+2.2	257	
11	159°43'	+1°12'	2.06	+4.3	206	
12	201°28'	+1°21'	2.86	+6.7	286	
13	230°04'	+1°38'	1.58	+4.5	158	
14	307°58'	+0°21'	1.81	+1.1	181	
15 ✓	337°49'	-0°53'	0.98	-1.5	98	
16 ✓	87°03'	-0°40'	1.62	-1.9	162	
17	108°21'	+0°12'	4.45	+1.5	445	
18	247°39'	+1°43'	4.52	+13.5	452	

Elev					
448.2	±	10'	wide	road	trail
450.9	"	"	"	"	"
453.7	"	"	"	"	"
455.8	"	"	"	"	"
458.2	±	Junction	road	trails	
456.0	±	road	trail		
452.6	"	"	"	"	
450.0	GP				
449.0	"				
453.0	"				
465.0	"				

NOTE

PLATE 7 cont.

43

Inst at Sta. F Elev. 462.1 H.I. 5.0

Obj	Az.	Vert. \angle	Rod Int.	Diff. El.	Elev.
Sta. G	170°22'				✓
1	278°49'	0°08'	2.70	+0.6	462.7 ✓
2	257°33'	+0°30'	3.31	+2.9	465.0 ✓
3	235°40'	+0°38'	5.45	+6.0	468.1 ✓
4	253°30'	+1°12'	5.00	+10.4	472.5 ✓
5	229°58'	+1°07'	2.78	+5.4	467.5 ✓
6	178°29'	+1°55'	2.37	+7.9	470.0 ✓
7	125°38'	+0°35'	3.78	+3.8	465.9 ✓
8	114°39'	+0°12'	5.60	+2.0	464.1 ✓
9	98°51'	-0°15'	4.91	-2.2	459.9 ✓
10	98°08'	-0°10'	2.70	-0.8	461.3 ✓
11	106°05'	+0°10'	1.35	+0.4	462.5 ✓

Har. Dist.	
270	Bend in road E
331	E road
545	" "
500	GP
278	"
237	"
378	"
560	"
491	"
270	"
135	"

PLATE 7, cont

45

Inst. at Sta G Elev. 481.7 H.I. 4.7

Obj	Az.	Vert Δ	Rod Int.	Diff. El.	Hor. Dist
Sta H	234°24'				
1	84°15'	-1°45'	3.92	-12.0	392
2	86°12'	-1°55'	2.00	-6.7	200
3	300°32'	-0°53'	1.10	-1.7	110
4	278°47'	-0°49'	2.96	-4.2	296
5	301°26'	-1°36'	4.86	-13.6	486
6	274°32'	-1°29'	5.62	-14.6	562
7	244°13'	-1°06'	3.49	-6.7	349
8	239°28'	+1°31'	1.25	+3.3	125
9	190°27'	+2°41'	1.62	+7.6	162
10	168°04'	+2°14'	2.92	+11.4	292
11	204°50'	+0°10'	2.82	+0.8	282

Elev.	
469.7	GP
475.0	"
480.0	"
477.5	" Ridge Top
468.1	GP
467.1	"
475.0	"
485.0	" Ridge Top
489.3	" " "
493.1	" " "
482.5	GP

PLATE 7, cont

46

Inst. at Sta. G		Elev. 481.7		H.I. 4.7	
Obj	Az.	Vert. \angle	Red Int.	Diff. El.	Hor. Dist.
12	179°40'	+1°34'	3.04	+8.3	304
13	134°44'	+0°36'	3.59	+3.8	359
14	122°28'	+0°05'	4.96	+0.7	496
15	107°47'	-0°50'	3.86	-5.6	386
16	118°55'	-0°19'	1.97	-1.1	197
17	163°03'	+2°23'	4.33	+18.0	432
18	160°45'	+2°16'	5.13	+20.3	512
19	139°25'	+0°51'	5.63	+8.3	563
20	169°32'	+1°35'	4.82	+13.3	482
21	190°50'	+0°22'	4.65	+3.0	465
22	154°27'	+1°53'	1.00	+3.3	100

PLATE 7, CON'T.

47

Inst. at Sta H Elev. 458.6 HI 4.6

Obj	Az.	Vert. \angle	Rod Int.	Diff. El.	Hor. Dist.
Sta. A	270°01'				
1 ✓	225°30'	-2°11'	2.25	-8.6	225
2 ✓	222°12'	-1°49'	2.70	-8.6	270
3 ✓	213°17'	-1°38'	3.02	-8.6	302
4 ✓	213°17'	-1°29'	3.32	-8.6	332
5 ✓	207°54'	-1°19'	3.75	-8.6	375
6 ✓	194°34'	-0°38'	3.28	-3.6	328
7 ✓	157°31'	+1°03'	3.13	+5.7	313
8	127°19'	+2°11'	1.68	+6.4	168
9 ✓	215°33'	-1°43'	1.02	-3.0	102
10	321°14'	-0°43'	1.20	-1.5	120
11	356°11'	+0°20'	2.45	+1.4	245

Elev			
450.0	Lake water edge		
450.0	"	"	"
450.0	"	"	"
450.0	"	"	"
450.0	"	"	"
455.0	G.P.		
464.3	"		
465.0	"		
453.6	"		
457.1	" Valley Line		
460	"	"	"

PLATE 7, cont.

48

Inst at Sta. H		Elev. 458.6	H.I. 4.6		
Obj	Az.	Vert. \times Rod Int.	Diff. El.	Hor. Dist.	
12	2°42'	+0°56'	4.02	+6.6	402
13	358°30'	+0°56'	4.20	+6.8	420
14	23°08'	+1°34'	4.38	+12.0	438
15	45°20'	+2°05'	3.06	11.1	306
16	34°00'	+1°55'	1.85	+6.2	185
17	84°46'	+2°36'	3.06	+13.9	305
18	68°02'	+2°21'	4.20	+17.2	419
Inst at Sta. I		Elev. 503.0	H.I. 4.9		
Sta. C	101°54'				
1	191°53'	-1°10'	4.68	-9.6	468
2	269°07'	-4°17'	1.21	-9.0	120
3	338°57'	-2°40'	3.21	-14.9	320

Elev.	
465.2	GP Valley Line
465.4	" Bend in 10' road
470.6	"
469.7	"
464.8	"
472.5	"
475.8	"
493.4	GP
494.0	"
488.1	"

NOTES FOR PLATE B.

50

Cross-Sections, King Street

Sta	B.S.	H.I.	F.S.	Elev.
B.M.	4.7	68.3		63.6
				(Elev.)
0+00				(Dist.)
				(Rod)
0+25				
0+50				
0+75				
1+00				
1+25				

					J. Zerangue, T
					G. Carrier, Rod
61.5	59.8	60.0	59.7	61.3	H. LeBlanc, Tape
0	5	17	29	34	July 14, 1964
6.8	8.5	8.3	8.6	7.0	Clear-Warm
62.4	60.2	60.4	60.0	61.5	
0	5	17	29	34	
5.9	8.1	7.9	8.3	6.8	
63.2	60.4	60.8	60.4	61.8	
0	5	17	29	34	
5.1	7.9	7.5	7.9	6.5	
63.8	60.4	61.0	60.6	61.3	
0	5	17	29	34	
4.5	7.9	7.3	7.7	7.0	
63.8	60.8	61.2	60.8	63.0	
0	5	17	29	34	
4.5	7.5	7.1	7.5	5.3	
64.1	61.0	61.4	60.9	63.3	
0	5	17	29	34	
4.2	7.3	6.9	7.4	5.0	

PLATE 8 cont.

51

Sta.	B.S.	H.I.	F.S.	Elev.	(Elev.)
1150					(Dist.)
					(Rod)
T.P. ₁	4.0	68.0	4.3	64.0	
1175					
2100					
2125					
2150					
2175					

640	612	616	611	633
0	5	17	29	34
43	71	67	72	50
643	614	618	613	633
0	5	17	29	34
37	66	62	67	47
644	617	621	618	636
0	5	17	29	34
36	63	59	62	44
646	619	623	619	637
0	5	17	29	34
34	61	57	61	43
647	621	626	621	636
0	5	17	29	34
33	59	54	59	44
648	622	626	622	625
0	5	17	29	34
34	58	54	58	55

PLATE 8 cont

Sta.	B.S.	H.I.	F.S.	Elev.
		68.0		(Elev.)
3+00				(Dist.)
				(Rod)
3+25				
3+50				
T.P. ₂	4.2	68.9	3.3	64.7
3+75				
4+00				
4+25				

64.7	62.2	62.6	62.3	63.3					
0	5	17	29	34					
3.3	5.8	5.4	5.7	4.7					
64.7	62.3	62.7	62.4	64.0					
0	5	17	29	34					
3.3	5.7	5.3	5.6	4.0					
64.7	62.4	62.8	62.4	64.1					
0	5	17	29	34					
3.3	5.6	5.2	5.6	3.9					
64.6	62.5	62.9	62.5	63.1					
0	5	17	29	34					
4.3	6.4	6.0	6.4	5.8					
64.7	62.6	63.0	62.5	63.5					
0	5	17	29	34					
4.2	6.3	5.9	6.4	5.4					
64.9	62.6	63.0	62.6	63.3					
0	5	17	29	34					
4.0	6.3	5.9	6.3	5.6					

PLATE 8 CONT.

Sta.	B.S.	HI	FS	Elev.	(Elev.)
4+50		68.9			(Dist.)
					(Rod)
4+75					
5+00					
5+33					

648	626	630	626	634
0	5	17	29	34
41	6.3	5.9	6.3	5.5
647	626	630	625	640
0	5	17	29	34
42	6.3	5.9	6.4	4.9
647	626	630	626	640
0	5	17	29	34
42	6.3	5.9	6.3	4.9
640	627	630	630	640
0	5	17	29	34
49	6.2	5.9	5.9	4.9

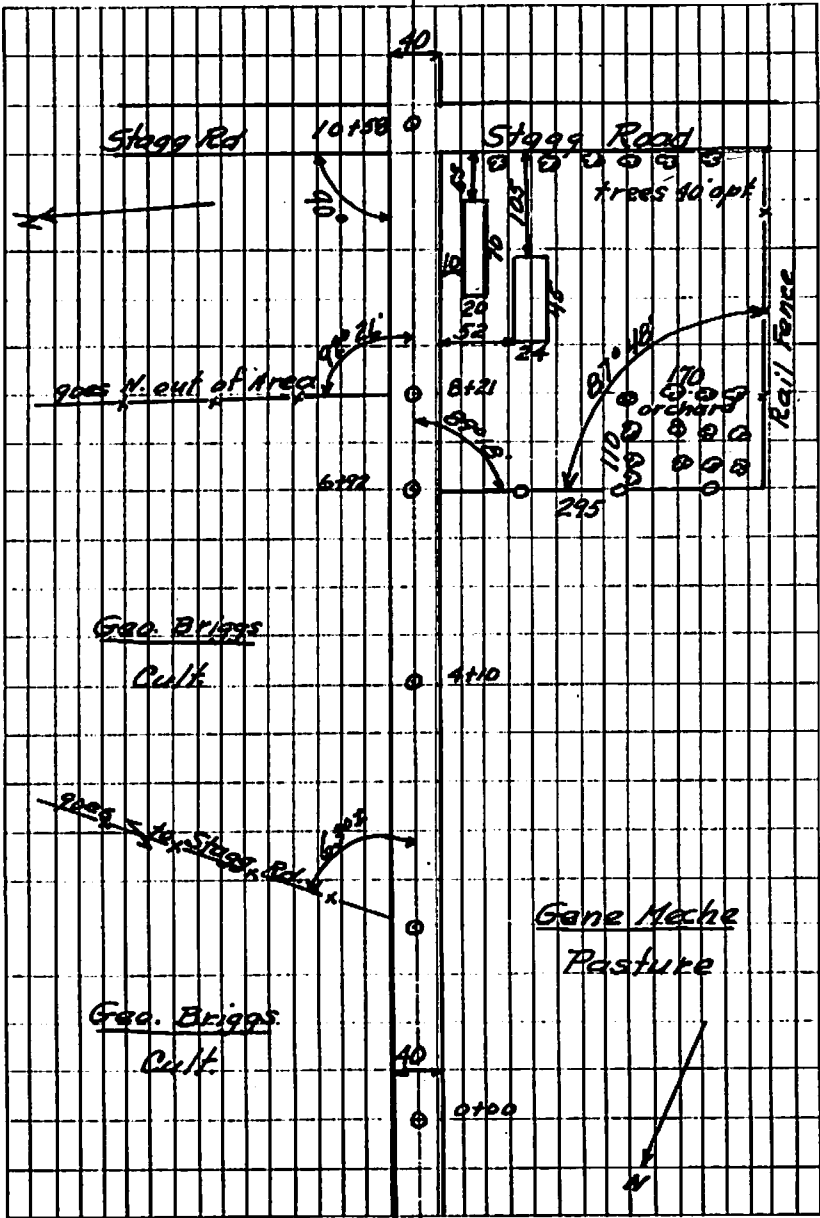
Blank lined page with horizontal ruling lines.



The image shows a page with a grid of 20 columns and 25 rows. The grid is composed of thin black lines forming a series of small squares. The grid is empty, with no text or data entered. The grid is oriented vertically on the page, with the top edge of the grid at the top of the page and the bottom edge at the bottom. The grid is centered horizontally on the page.

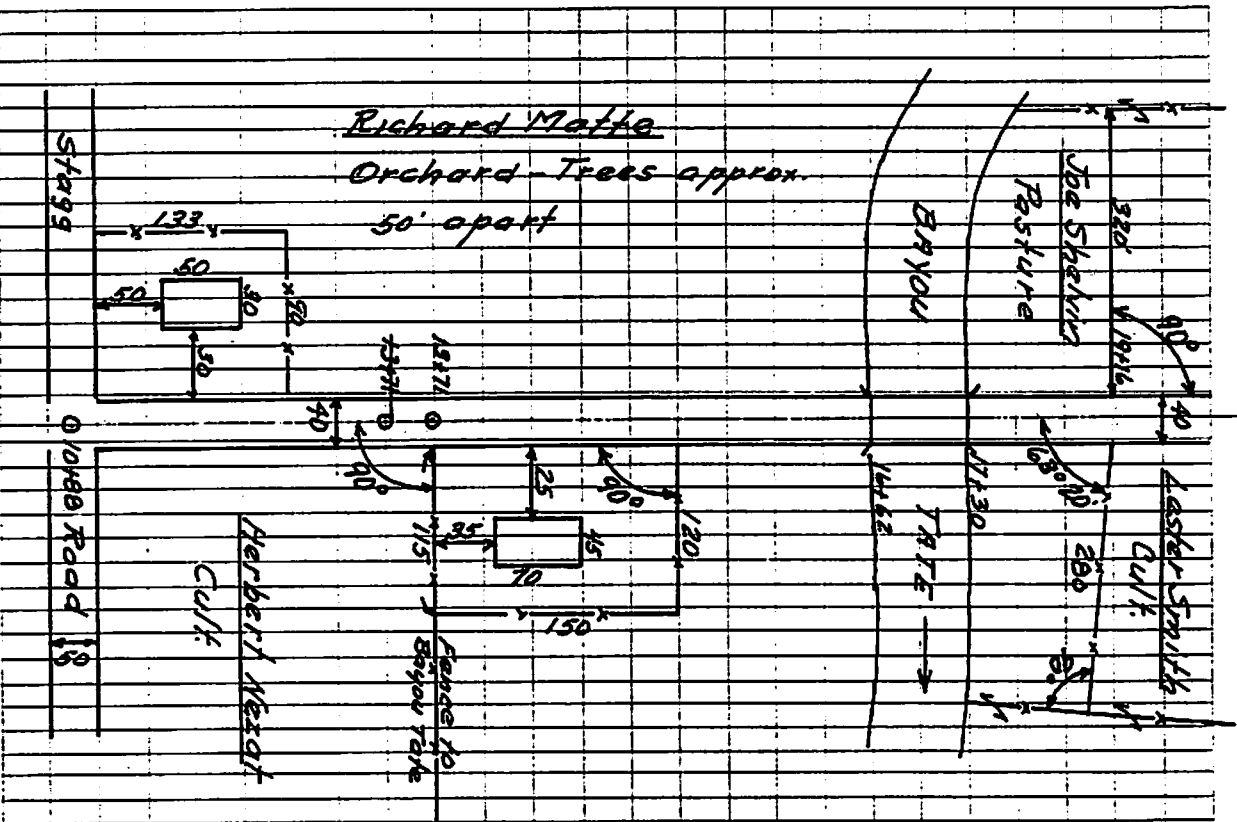
Wilson Road Traverse

Sta	Def. \angle	Cal B	Remarks
10+58			Sta 10+58 & Stagg $\frac{1}{2}$ Wilson Roads
8+21			Fence goes N. out of Area
6+92			Smooth wire fence
1+31	60°22'L	S87°18'E	Band in Road
0+00			S26°56'E Sta 0+00 on map is on north border and 2½ in. East of left border



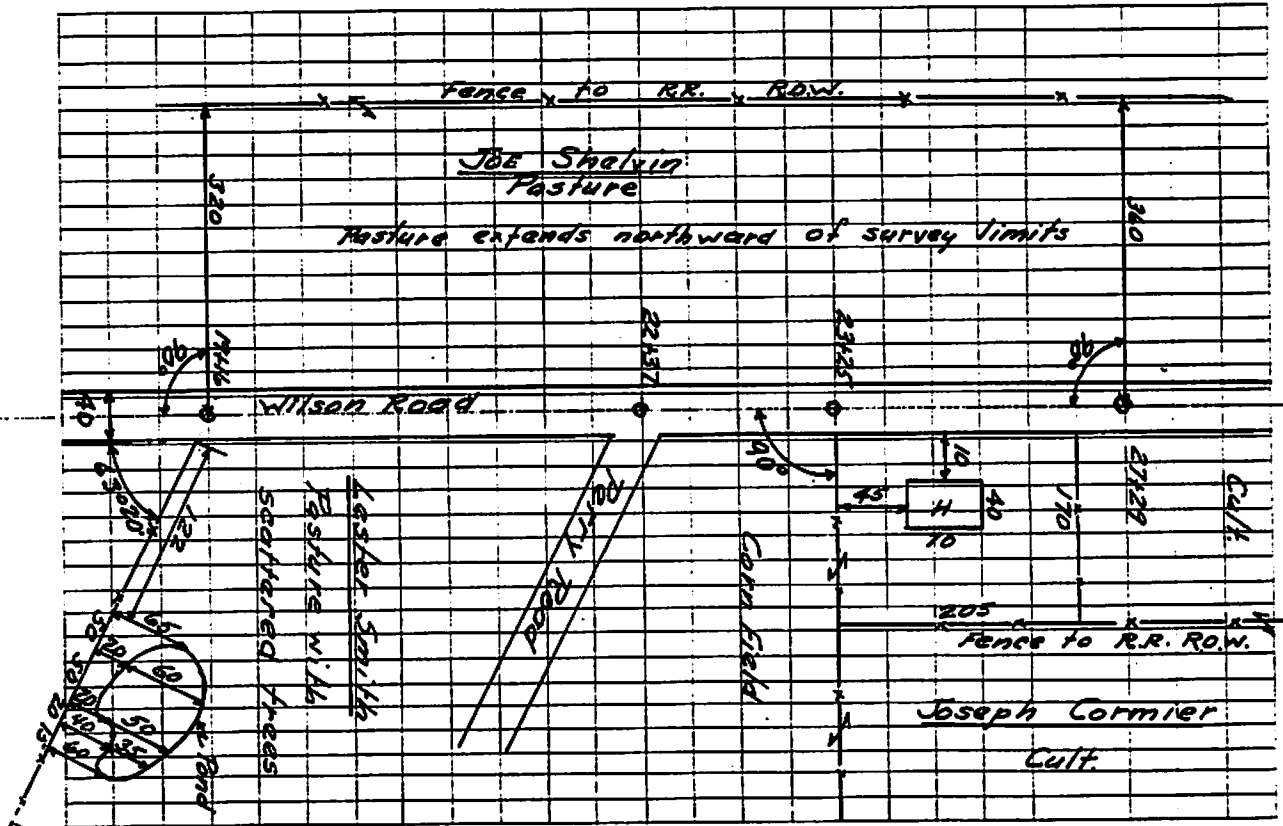
Sta.	Def. &	Col. B	Wilson Road Traverse, Cont	Remarks
19416				
17430				East end bridge
16162				West end bridge
13471				
10458				E Stagg & Wilson Rds.

15110
15113



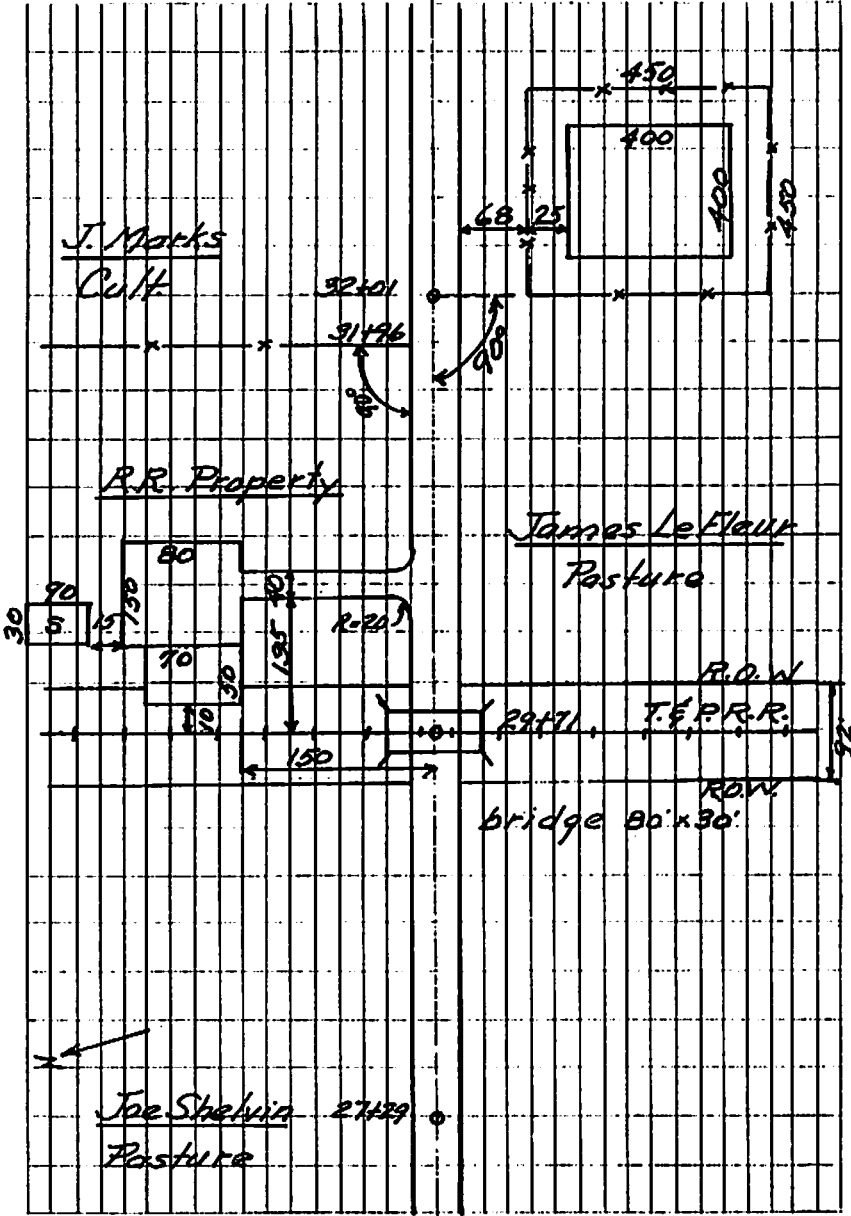
Wilson Road Traverse, Cont.

Sta.	Def. A	Cal. B	Remarks
27+29 41.0 52.0	29°21' R	557°57' E	Bend in road
23+25			
22+37 1.0			Perry & Wilson & Hammett Rds.
19+16			



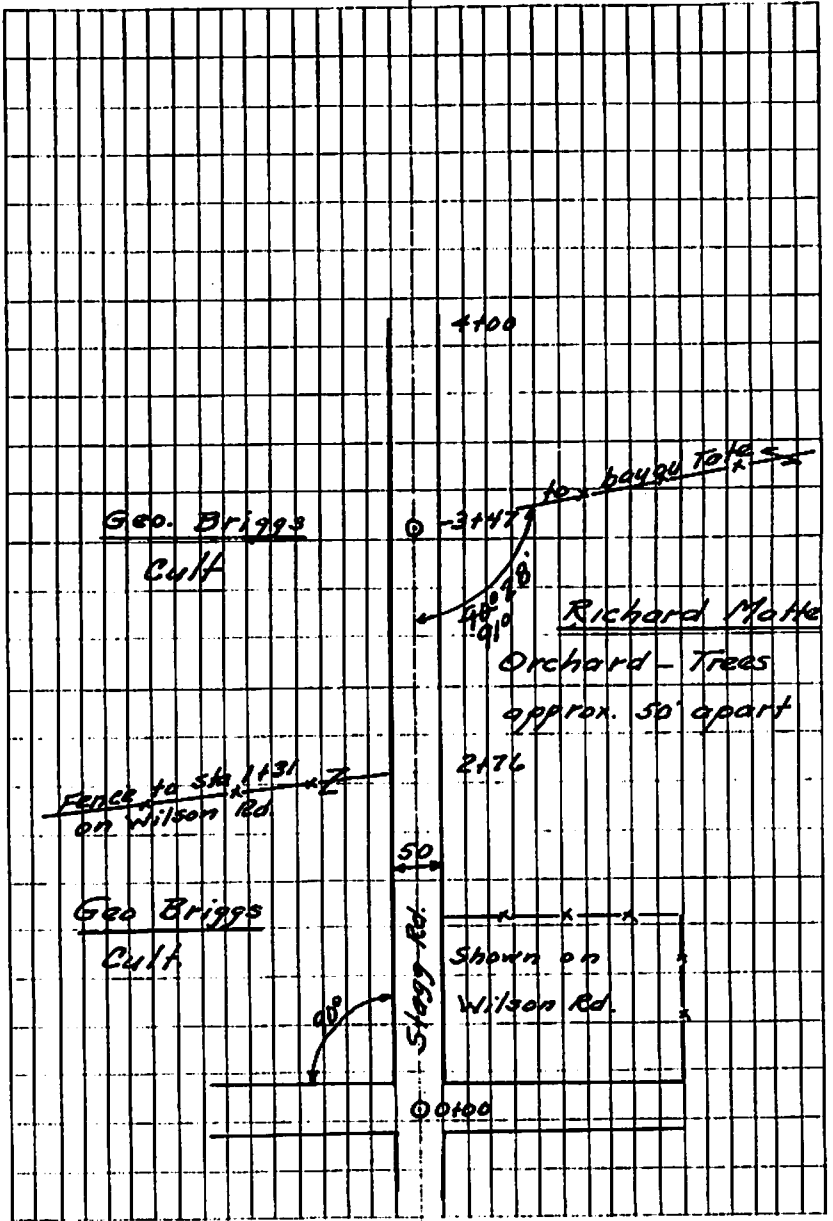
Wilson Road Traverse, Con't

Sta.	Def'n	Cat.	Remarks
36+51			End of Survey
32+01			
31+96			
29+71			Sta. 29+71 & R.R. tracks
			& Wilson Rd.
27+29			



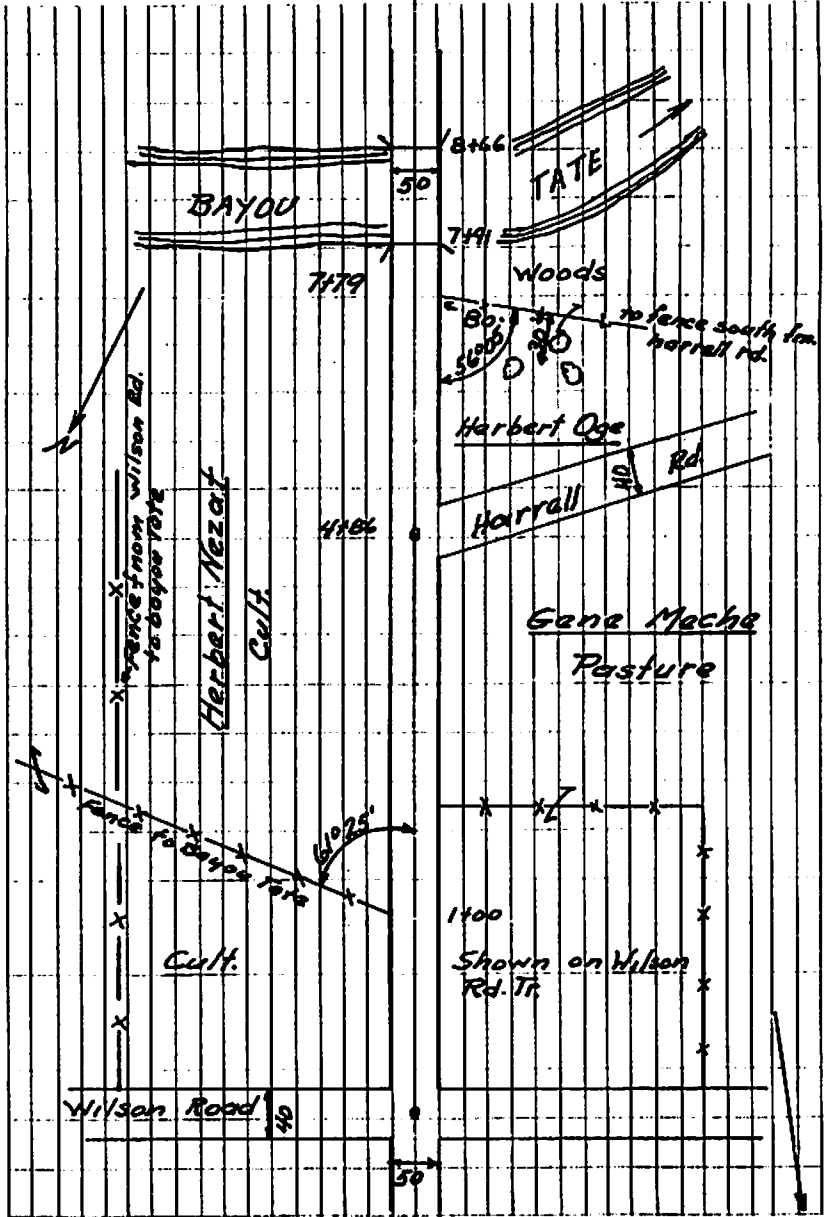
Stagg Road North

Sta	Def ⁿ	Cal. B	Remarks
4+00			End of Survey
3+47			
2+76			
0+00	90° ^L	N2°42'E	to Stagg & Wilson Rd
			0+00 is Sta 10+58 on
			Wilson Rd. Traverse



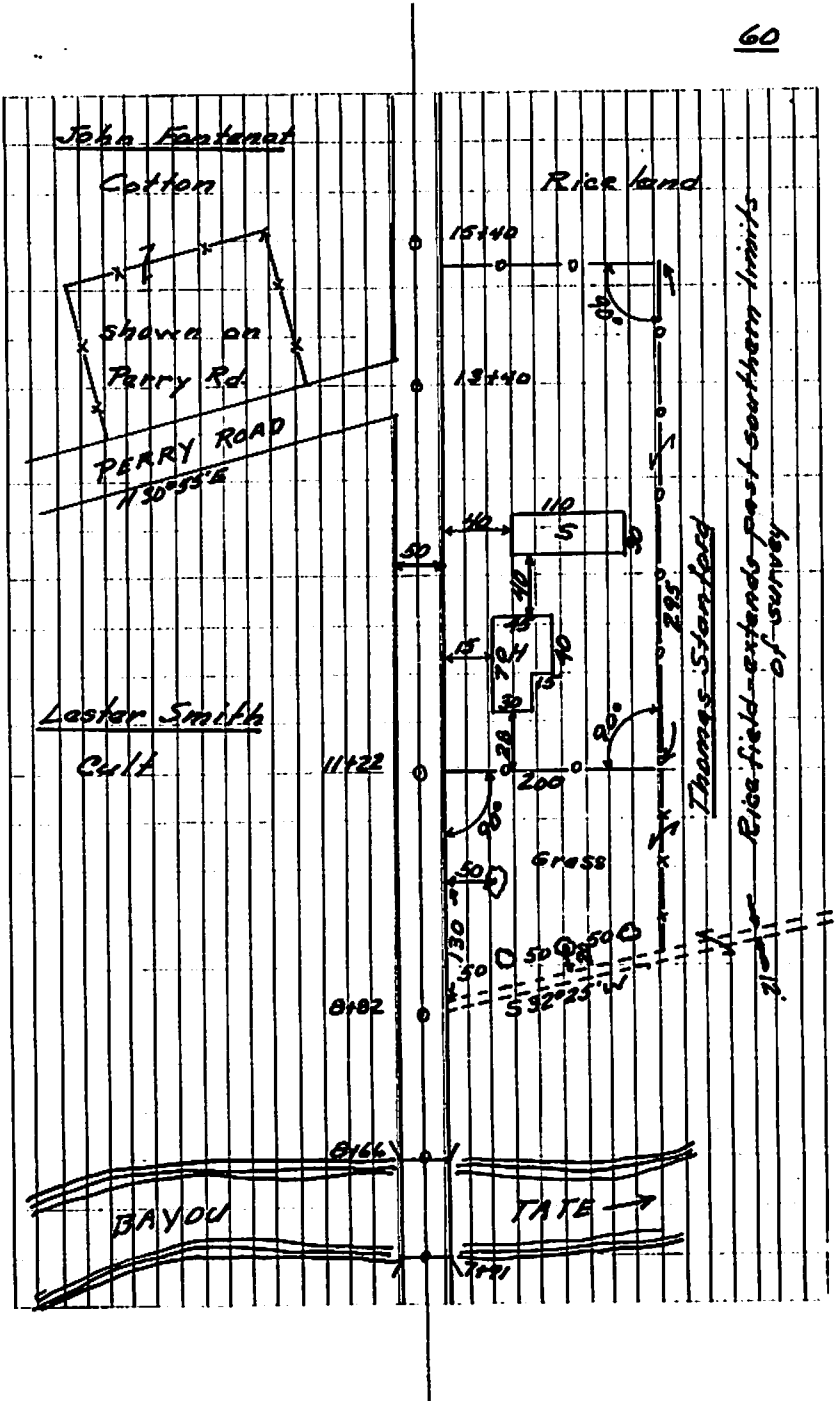
Stagg Road South Traverse

Sta	Def. 4	Cal. B	Remarks
8+66			S.E. end bridge
7+91			N.W. end bridge
7+79			86' westward and 30 northly to center group 3 trees 30' apart
4+86	43°33'L	S40°51'E	∩ Stagg Rd ∩ Harrell Rd. Bend in Stagg Rd.
1+00			
0+00	90°00'R	S2°42'W	0+00 is same as Sta. 10+58 Wilson Rd. Tr.



Stagg Road South, Cont.

Sta	Def. \angle	Cal. B.	Remarks
15+40			
13+40	11°34'R	529°17'E	E. Stagg & Perry Roads & Bend in Stagg Rd.
11+22			
8+82			N. side 12' dirt road
8+66			
7+91			



Stagg Road South, Cont

Sta.	Def's	Col. B.		Remarks
25+55				Traverse end, road continues
19+42				
15+40				

John Fontenot

Cult

Land extends E. to
R.R. ROW.



19142

John Fontenot

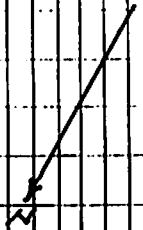
Cotton

Property goes to
R.R. ROW.

50

Thomas Stanford

Rice - Extends beyond S. boundary of survey



Bayou Tate Meander Line - South

Sta.	Def. &	Col. B.	Remarks
8+95	3°53'R	582°26'W	Band in Road
8+00			
7+00			
6+52	46°08'R	578°33'W	Band in Road
6+00			
5+00			
4+00			
3+00			
2+00			
1+00			
0+00	73°16'R	532°25'W	0+00 is same as Sta. 8+82 on Stagg Rd. S. Traverse on N. side of 12' dirt road

USE N.S. LINE

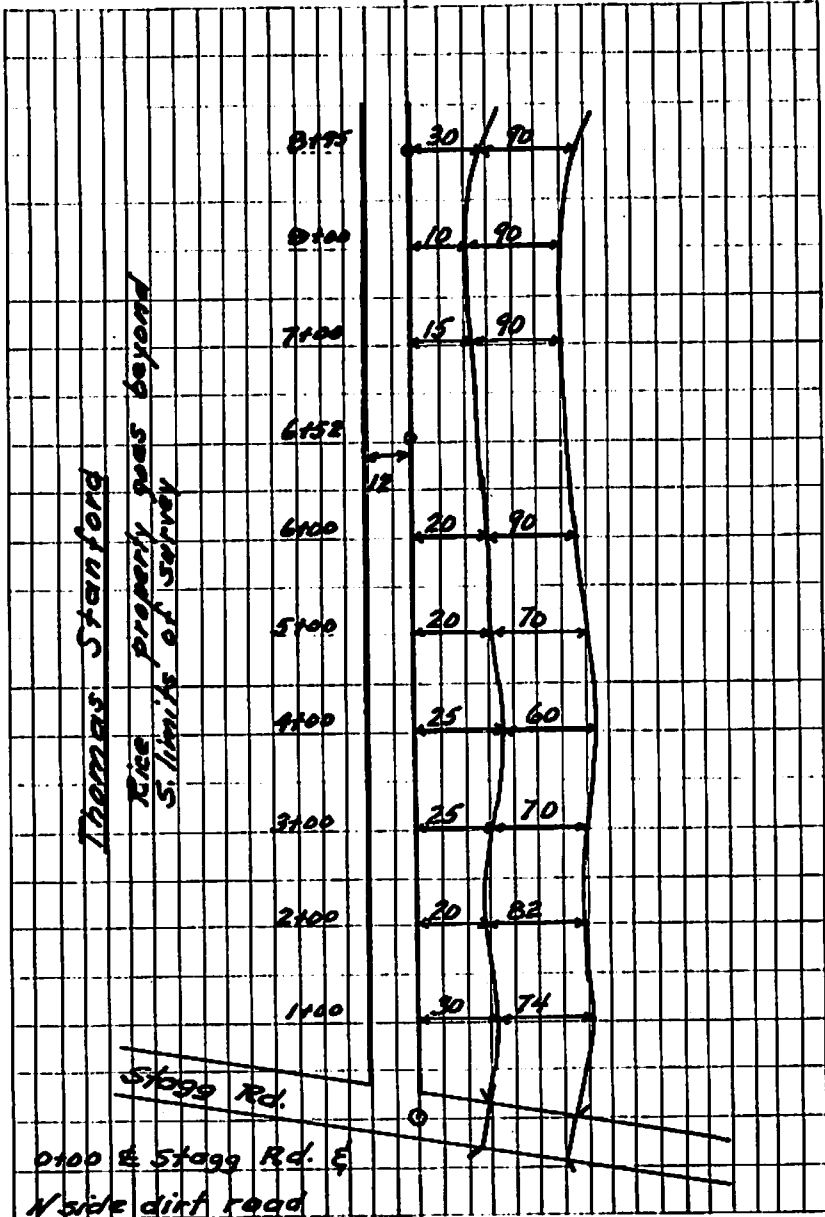
LINE

LINE

LINE

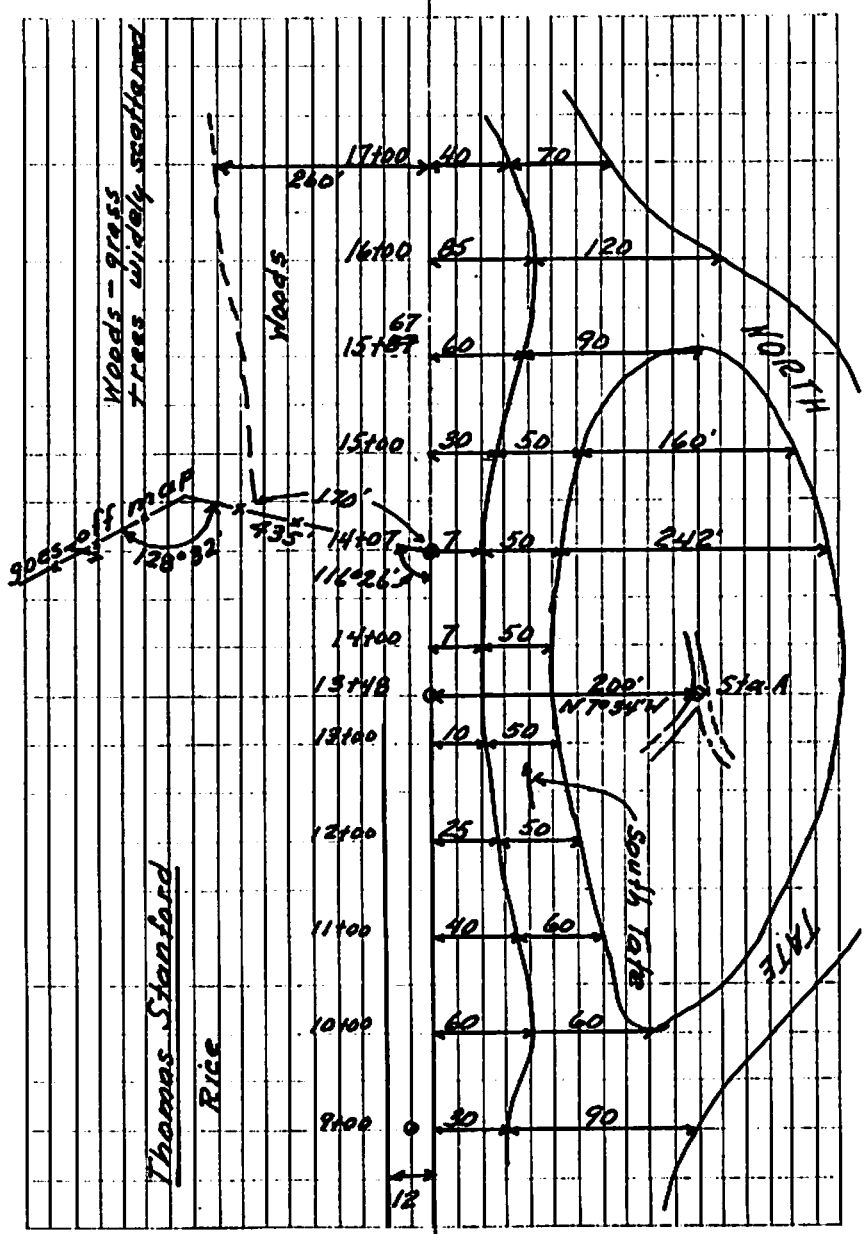
LINE

LINE



Bayou Tate Meander Line - South, Cont

Sta.	Def. &	Col. B.		Remarks
17+00				
16+00				
15+ 87 ⁶⁷				
15+00				
14+07				
14+00				
13+48				Set Sta. A to be used later
13+00				N7°34'W dist. 200' E. to line
12+00				
11+00				
10+00				
9+00				



Hoods - grass
Trees widely scattered

Thomas Stanford

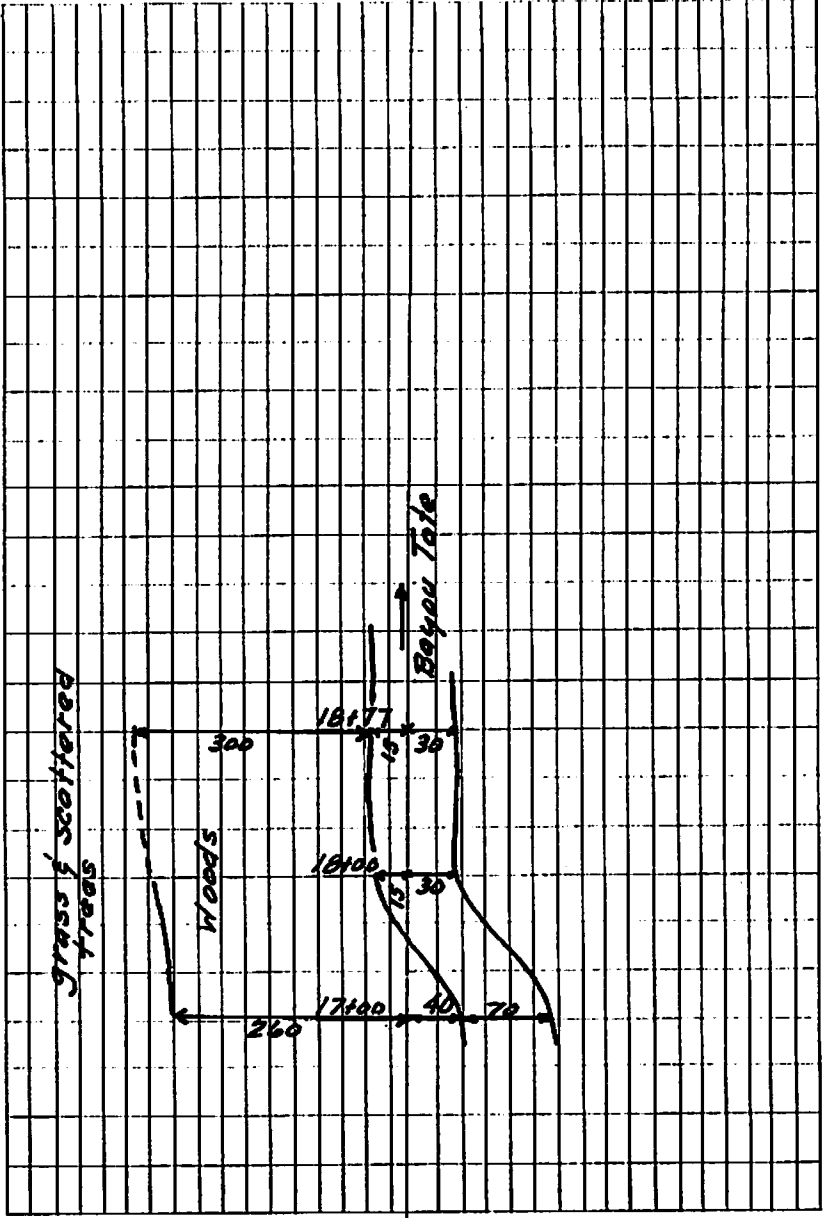
Rice

Hoods

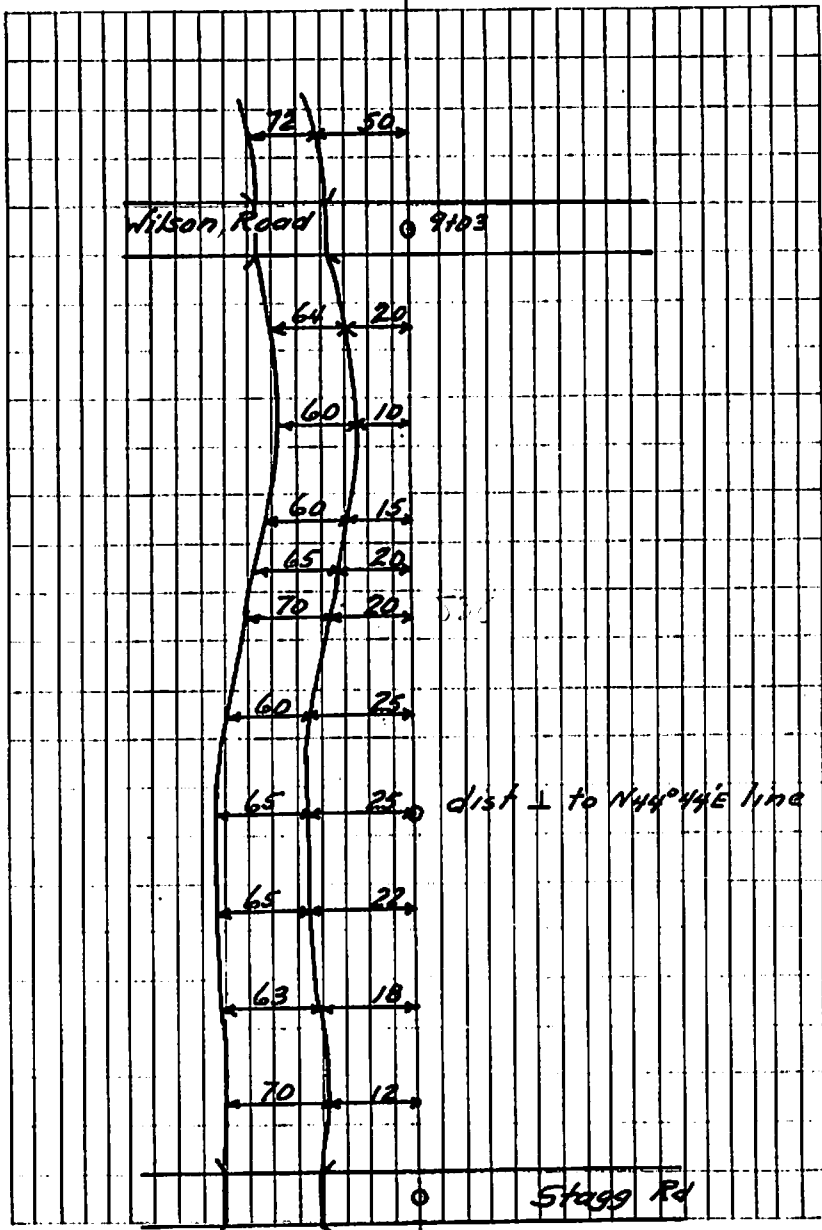
NORTH

SOUTH

12



Sta.	Def. & Cal. B.	Remarks
10+00		
9+03	13°00' L. N12°00' E	Ties to Sta. 17+68 on Wilson Rd. in which is 38 East of Boyer
8+30		
7+30		
6+30		
5+80		
5+30		
4+30		
3+30	19°44' L. N25°00' E	
3+00		
2+00		
1+00		
0+00	94°25' L. N44°44' E	0+00 is Sta. 8+82 on Stage Rd. S. T.



Wilson Road

9103

dist \perp to $144^{\circ}44'E$ line

Stagg Rd

Bayou Tate Meander Line - North Cont.

Sta	Def 4	Cal. B	Remarks

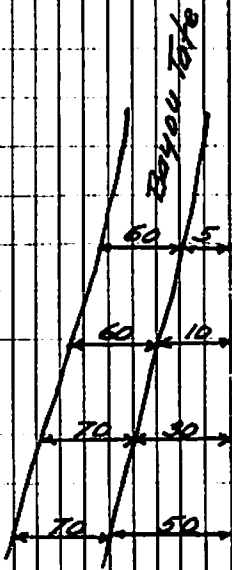
1348

End of Survey - bayou
continues

1300

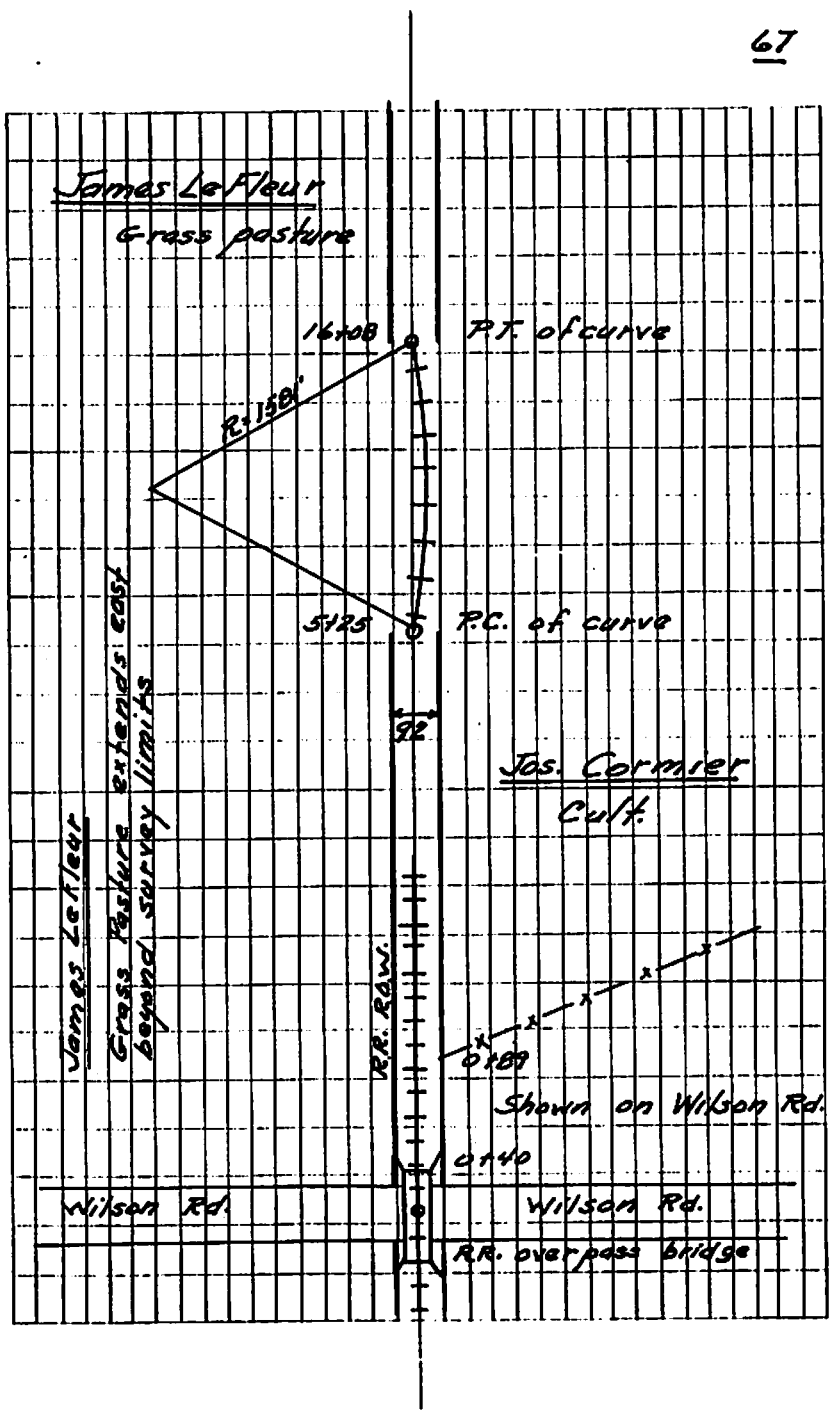
1200

1100



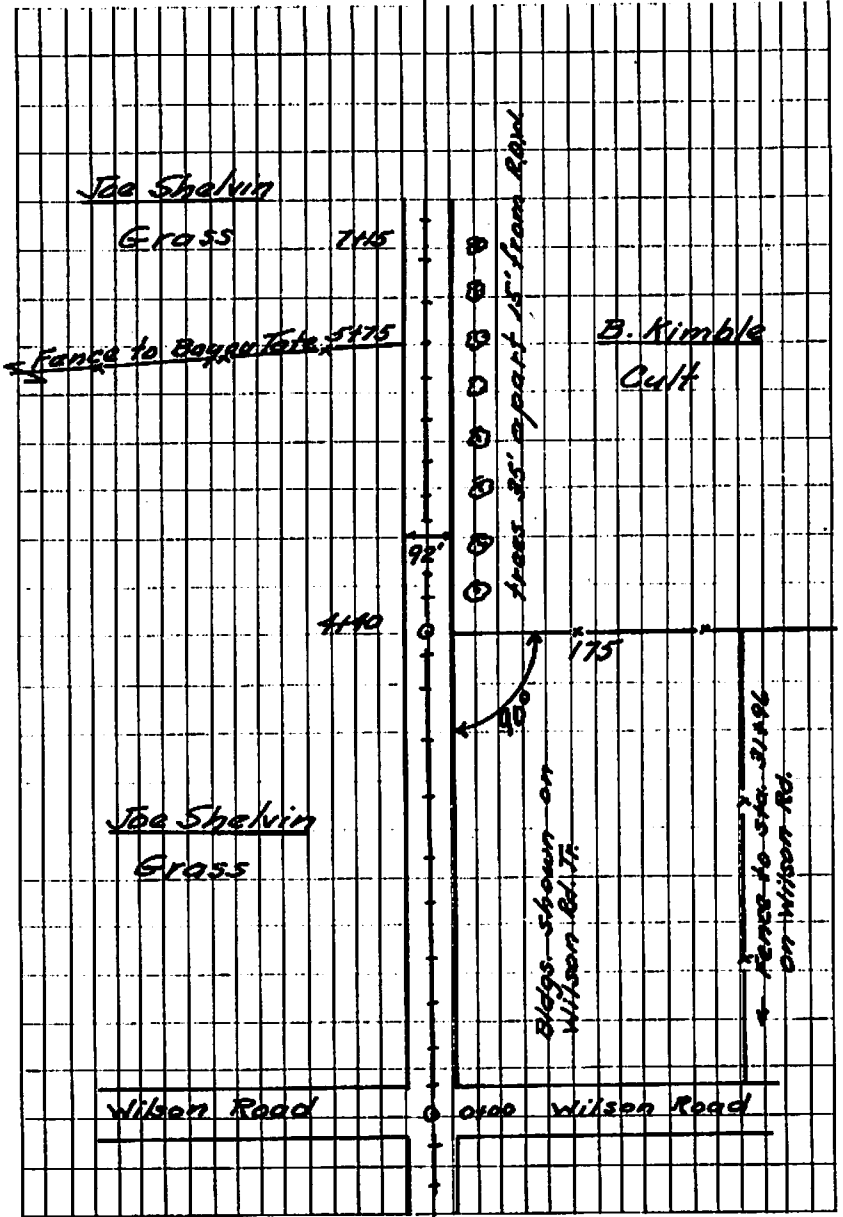
T. & P. R.R. Traverse - Southward

Sta.	Def. A	Cal. B.	Remarks
20+95			Survey Ends R.R. con'ts
16+08	19°30'L	S7°42'E	R.O.W. 92' wide on curve and tangent
5+25	19°30'L	S11°48'W	Survey line on long chord of curve
0+89			
0+40			R.R. bridge 80' x 30'
0+00	89°15'R	S31°18'W	0+00 is Sta. 29+71 on Wilson Rd. and E.R.R. tracks.



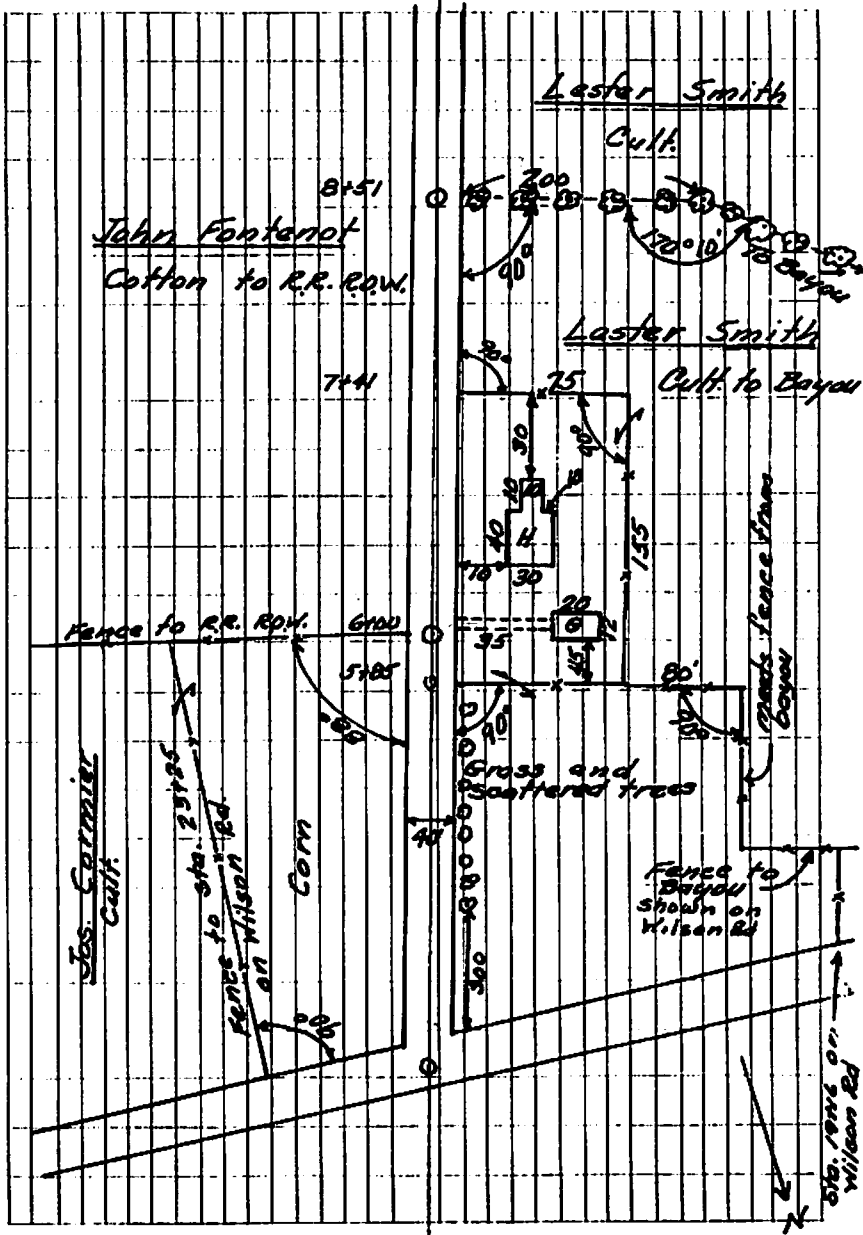
T. & P. R.R. Traverse North

Sta	Def. &	Cor. B.	Remarks
7+15			End of Survey
5+75			Ties to this fence made on Wilson Rd. Tr.
4+40			
0+00	90°45' L	N 31°18' E	0+00 is Sta. 29+71 on Wilson Rd. and \perp R.R. tracks



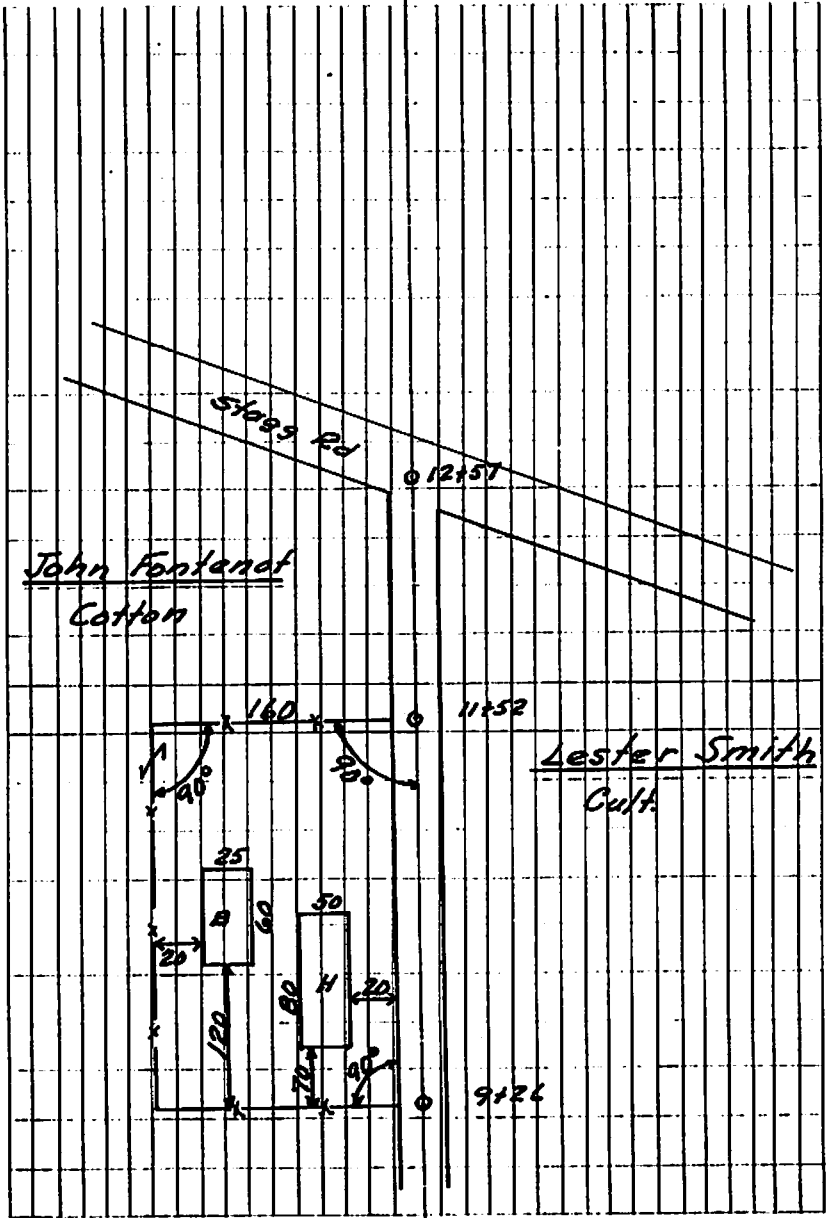
Perry Road Traverse

Sta	Del. A	Cal. B.	Remarks
8+51			
7+41			
6+00			
5+85			
0+00	118°13R	530°55W	0+00 is Sta. 22+37 on Wilson Road & Wilson & Perry Roads



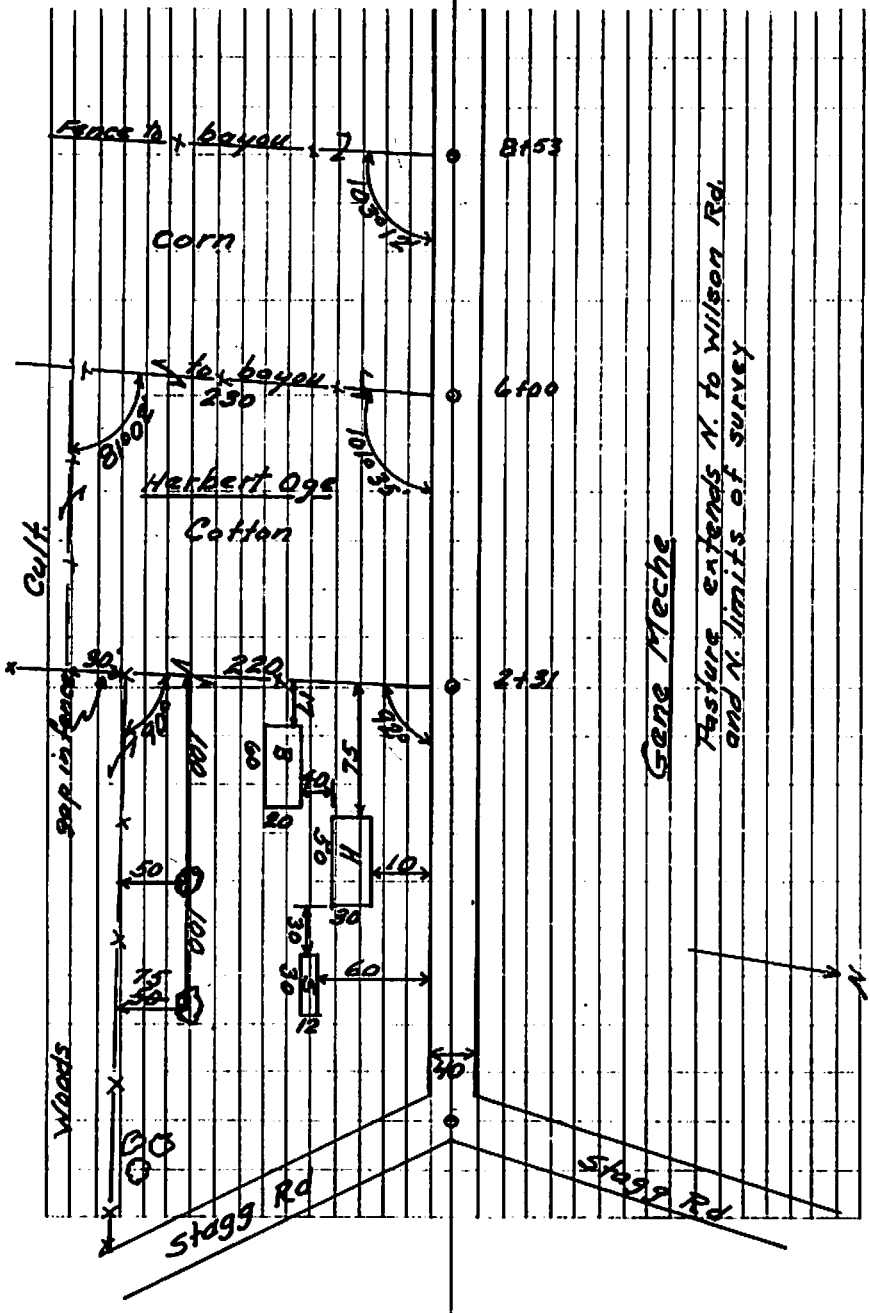
Perry Road Traverse cont.

Sta	Def A	Cal B	Remarks
12+57			Ties to Sta 13+40 on Stagg Rd. Tr.
11+52			
9+26			



HARRELL ROAD TRAVERSE

Sta	Def. &	Cal. B.	Remarks
8+53	39°10'R	N57°28'W	Bend in road
6+00			
2+31			Fence goes straight to bayou, has 30' gap as shown
0+00	78°40'R	S81°22'W	E. Stagg & Harrell Rds. 0+00 is Sta. 4+86 Stagg Rd. South



~~HARREL ROAD TRAVERSE, Cont.~~

Sta.	Def. A	Col. B.	Remarks
13+00	853 537		End of Survey Rd. conts.
8+53	39°10'R	N59°28'W	Bend in rd.

Herbert Oge

Pasture extends to bayou
and west limits of survey

trans along road approx 25' apart



Fence to Bayou



13x88

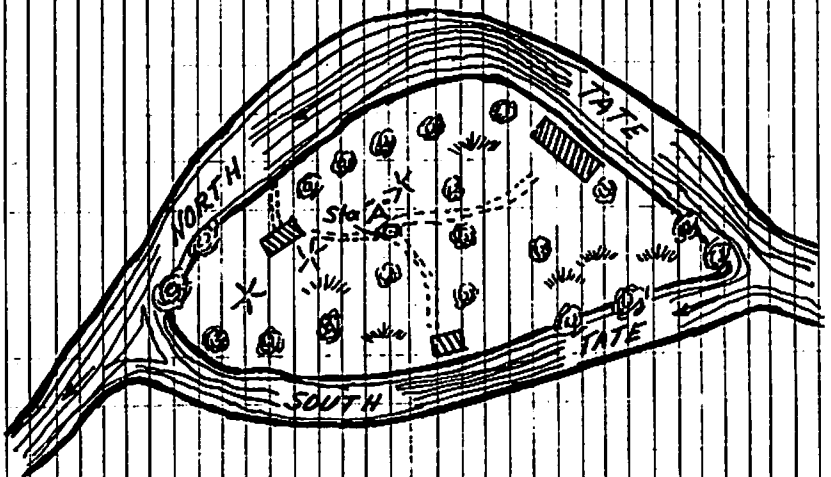
Gene Meche

Pasture to Wilson Rd and
west limits of survey

8x53

Island Survey			
<u>Inst. of Sta "A"</u>			
Sta	Az.	Dist.	Remarks
1	358°00'	90	⊙ <u>Az. from North</u>
2	358°00'	130	S. side Bayou
3	358°00'	220	N. " "
4	14°28'	50	*
5	23°28'	120	⊙
6	23°28'	175	S. side Bayou
7	23°28'	242	N. " "
8	43°50'	170	⊙
9	43°50'	200	S. side Bayou
10	43°50'	260	N " "
11	56°53'	200	N.W. Cor. 70'x20' Comp
12	56°53'	80	⊙
13	56°53'	210	S. side Bayou
14	56°53'	285	N. " "
15	77°10'	212	S.E. Cor. 70'x20' Comp
16	77°10'	260	S. side Bayou
17	77°10'	350	N. side Bayou
18	80°55'	225	⊙
19	93°00'	80	⊙
20	90°25'	315	⊙ at edge bayou
21	84°30'	280	S. side bayou
22	98°15'	160	⊙
23	95°21'	340	⊙ at bayou edge

Sta. A located from Sta. 12+48 on Bayou Tate South Tr.
 Sta. 10 & trail junctions - trail goes from Sta. A
 to each camp and to bayou of camp N.W. on island



N
 ↑

Island Survey, Cont.

Sta.	Az.	Dist	Remarks
24	106°10'	260	⊙
25	116°23'	210	⊙
26	130°15'	105	⊙
27	145°18'	130	N.E. Cor. 30'x20' camp
28	158°24'	120	N.W. cor. 30'x20' camp.
29	328°22'	85	⊙
30	328°22'	110	S. side bayou
31	328°22'	195	N. " "
32	300°54'	90	⊙
33	300°54'	120	S. side bayou
34	300°54'	200	N. " "
35	278°00'	100	N.E. Cor. 40'x18' camp
36	278°00'	160	S. side bayou
37	278°00'	235	N. " "
38	269°05'	190	⊙ on side bayou
39	269°05'	260	N. side bayou
40	260°23'	125	S.W. Cor. 40'x18' camp
41	260°23'	210	E. side bayou
42	260°23'	290	W. " "
43	253°50'	90	X
44	246°26'	160	X
45	238°05'	220	⊙
46	226°12'	168	⊙
47	210°02'	120	⊙
48	256°18'	295	⊙
49	180°00'	45	⊙

The image shows a page of graph paper with a grid of small squares. A vertical line runs down the center of the page, and a horizontal line runs across the middle, intersecting at the center of the grid. This layout is typical for a coordinate plane or a graphing sheet. The grid is composed of approximately 20 columns and 20 rows of small squares. The page number '74' is located in the top right corner.

NOTES FOR PLATE 10 & 10A

75

Deflection Angle Traverse				
Sta.	Dist. Ft.	Def. &	Mag. B	Cal. B.
A		81°01'R		
	595.2		N 9°W	N 9°02'W
B		18°29'R		
	686.4		N 9½°E	N 9°28'E
C		33°28'R		
	551.8		N 43°E	N 42°57'E
D		76°53'R		
	711.7		S 60°E	S 60°05'E
E		60°04'R		
	375.6		S	South
F		9°34'L		
	491.2		S 9½°E	S 9°34'E
G		64°02'R		
	782.7		S 54½°W	S 54°25'W
H		35°37'R		
	462.4		W	West
A		81°01'R		
		± 360°-ck.		

K&E Transit	L. Cormier TN
No.	P. LeBlanc, H.C.
	G. Carrier, RC.
	Warm - Cloudy.
	June 20, 1964.
	Note: Bearing of Line A-B by Solar Observation with Gurley Solar Transit 1127 #600500

NOTES FOR PLATE II

Line	Length	Bearing
A-B	349.40	Due South
B-C	541.21	S 60° 50' E
C-D	158.82	N 87° 23' E
D-E	412.47	N 72° 00' E
E-F	313.04	S 50° 44' E
F-G	504.51	N 82° 07' E
G-H	471.47	N 15° 14' E
H-I	293.90	N 11° 59' W
I-J	106.84	S 88° 36' W
J-K	319.90	N 74° 28' W
K-L	350.33	S 74° 59' W
L-M	348.37	N 64° 53' W
M-A	349.00	Due West

This image shows a page from a ledger or account book. The page is ruled with horizontal lines and a vertical margin line on the left. The main body of the page is filled with a grid of vertical lines, creating approximately 30 narrow columns. The top of the page has a header area with several wide columns, likely for recording dates, descriptions, and monetary amounts. The grid is currently empty, with no data entered.

NOTES FOR PLATE 12

Sta.	BS	H.I.	F.S.	Elev.	
BM	7.2	57.2		50.0	
					(Elev.)
0+00					(Dist)
					(Rod)
1+00					
2+00					
3+00					
4+00					
5+00					

				Marks - π
				Henry - Rod
				Wyble - Chain
				Jan. 14, 1965
				Cool - Clear
50.0	48.0	48.0	50.0	
0	5	20	30	
7.2	9.2	9.2	7.2	
51.0	48.4	48.3	51.0	
0	7	20	30	
6.2	8.8	8.9	6.2	
51.8	48.4	48.3	51.0	
0	7	20	30	
5.4	8.8	8.9	6.2	
52.5	49.7	49.8	52.0	
0	7	20	30	
4.7	7.5	7.4	5.2	
52.8	50.3	50.5	52.5	
0	7	20	30	
4.4	6.9	6.7	4.7	
53.0	50.5	50.7	52.7	
0	5	20	30	
4.2	6.7	6.5	4.5	

Notes for Plate 12, con't

Sta.	B.S.	H.I.	F.S.	Elev.	
		57.2			(Elev.)
6+00					(Dist.)
					(Rod)
T.P. ₇	4.9	57.5	4.6	52.6	
7+00					
8+00					
9+00					
10+00					
11+00					

53.0	50.7	50.8	52.6
0	5	19	30
4.2	6.5	6.4	4.6
52.6	49.4	49.6	52.0
0	4	19	30
4.9	8.1	7.9	5.5
52.4	49.5	49.7	52.3
0	5	20	30
5.1	8.0	7.8	5.2
53.3	50.4	50.6	52.4
0	6	20	30
4.2	7.1	6.9	5.1
52.3	49.3	49.4	51.9
0	6	22	30
5.2	8.2	8.1	5.6
52.0	49.6	50.0	51.7
0	6	22	30
5.5	7.9	7.5	5.8

Notes for Plate 12, cont.

Sta.	B.S.	H.I.	F.S.	Elev.	
		57.5			(Elev.)
12+00					(Dist.)
					(Rod)
T.P. ₂	4.7	57.1	5.1	52.4	
13+00					
14+00					
15+00					
16+00					
T.P. ₃	4.8	58.4	3.5	53.6	
17+00					

525	502	505	524
0	6	22	30
5.0	7.3	7.0	5.1
530	506	507	530
0	6	22	30
4.1	6.5	6.4	4.1
530	497	499	525
0	5	21	30
4.1	7.4	7.2	4.6
536	505	506	532
0	5	21	30
3.5	6.6	6.5	3.9
536	508	510	536
0	5	21	30
3.5	6.3	6.1	3.5
528	502	504	526
0	5	21	30
5.6	8.2	8.0	5.8

52.9	50.1	50.4	52.6
0	6	21	30
5.5	8.3	8.0	5.8
53.2	50.4	50.7	53.0
0	6	21	30
4.8	8.0	7.7	5.4

NOTES FOR PLATE 14

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	DEFLECTION	ANGLE	TRAVERSE		
Sta.	Defl. \angle	Dist. Ft.	Cal. B.	Cal. Az.	Cal. Int. \angle
A	90°00'L				
		349.40	Due South		
B	6°50'L				
		541.21			
C	85°47'L				
		158.82			
D	15°23'L				
		412.47			
E	57°16'R				
		313.04			
F	47°09'L				
		504.51			
G	66°53'L				
		471.47			
H	27°13'L				
		293.90			
I	79°25'L				
		106.84			
J	16°56'R				
		319.90			
K	30°38'L				
		350.33			
L	40°13'R				

Boy SCOUT CAMP, WASHINGTON, LA

21

C. Motte, π
J. Gullory, Notes
M. Shanneck, H.C.
C. Ellis, R.C.

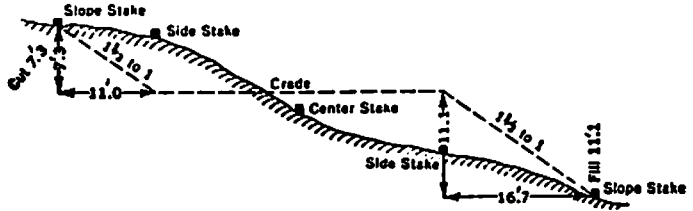
June 16, 1963
Fair - Warm

Line A to B staked due
south with Solar Transit

The image shows a page of graph paper with a grid of 20 columns and 20 rows. A vertical line runs down the center, separating the grid into two 10-column halves. A horizontal line runs across the middle, separating the grid into two 10-row halves. The grid is empty, and the page number '02' is written in the top right corner.

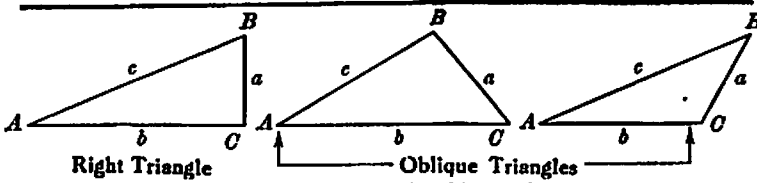
**DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
Roadway of any Width. Side Slopes 1½ to 1.**

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

TRIGONOMETRIC FORMULÆ



Right Triangle

Oblique Triangles

Solution of Right Triangles

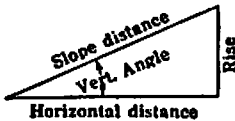
For Angle A . $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\operatorname{cosec} = \frac{c}{a}$

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	$B = 90^\circ - A, b = a \cot A, c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90^\circ - A, a = b \tan A, c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90^\circ - A, a = c \sin A, b = c \cos A$

Solution of Oblique Triangles

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

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = $5^\circ 10'$. From Table, Page IX, $\cos 5^\circ 10' = .9950$. Horizontal distance = $319.4 \times .9950 = 318.09$ 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 $5^\circ 10' = .9950$. $1 - .9950 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ 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.

