

OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY, MINN.

PLAN Survey

Co. Rd. F
From at Mc Menemy To

Road Acc't. No. _____

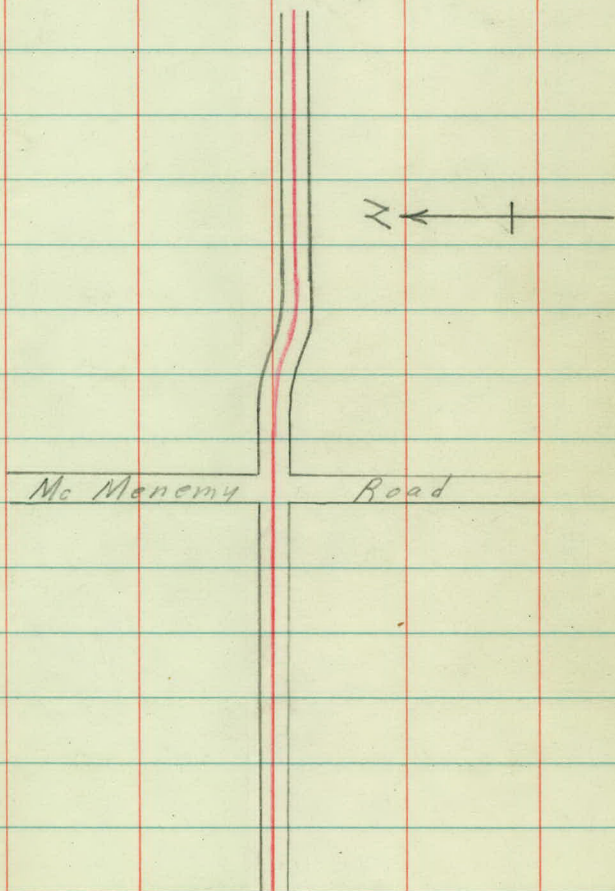
Date Filed 3-2-65

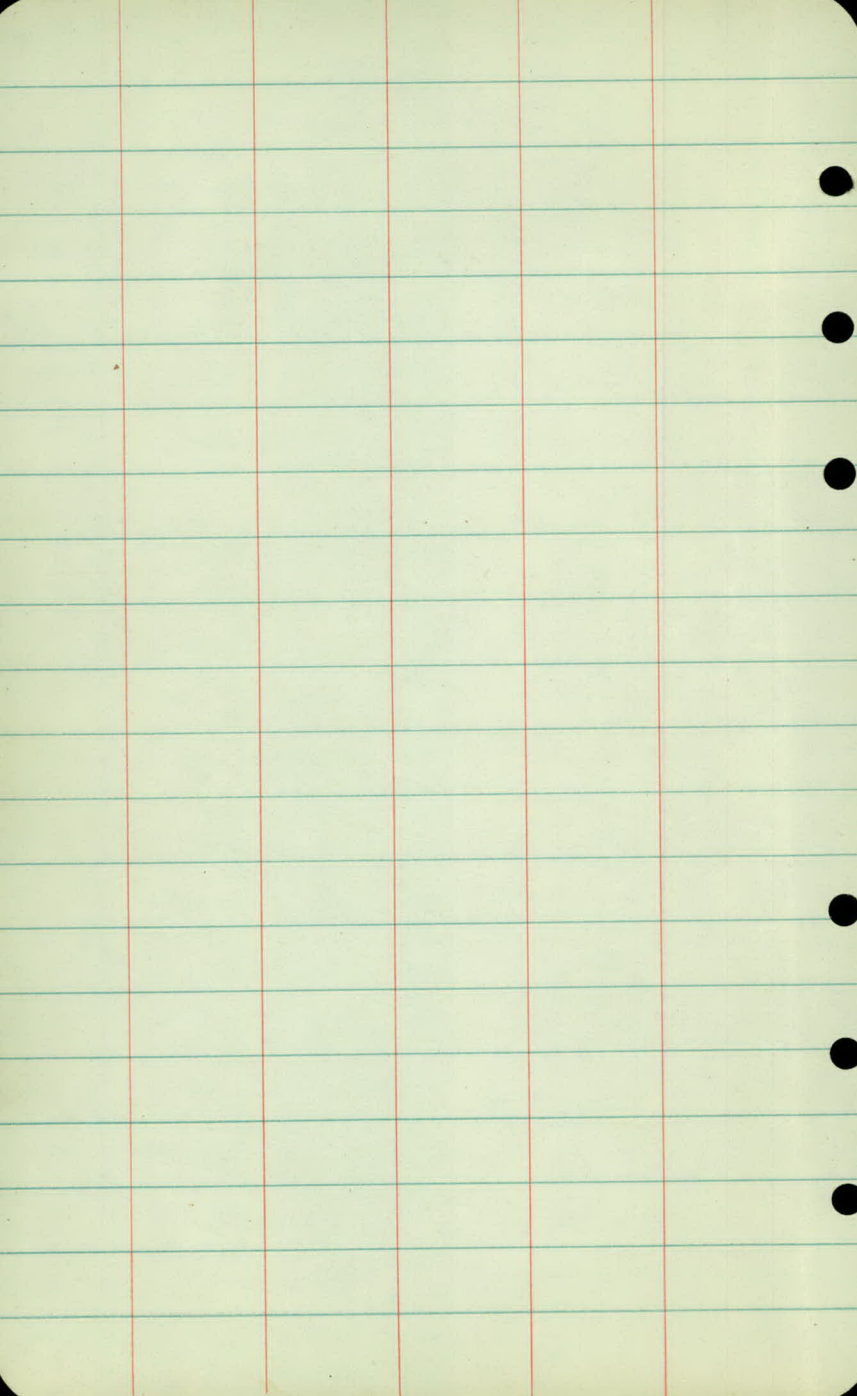
Dr. 9 BK 54
File

COUNTY ROAD "F"

at

Mc Menemy Rd.





July 1, 1963

2

Alinement

Sta Point Δ Lt. Δ Rt.

+51.49 P.T. $4^{\circ}04'$ $\Delta = 8^{\circ}08' \text{ Rt}$

65 $3^{\circ}02.4$ $D = 4^{\circ}$

64+50 P.I. $2^{\circ}02.4$ $T = 101.84$

64 $1^{\circ}02.4'$ $L = 203.33$

63+48.16 PC $0^{\circ}00'$ $R = 1432.40$ ³⁹

61+02.95 P.T. $0^{\circ}16'$

$89^{\circ}44'$
 $90^{\circ}32'$
 $179^{\circ}76'$
 $180^{\circ}16'$

$89^{\circ}44'$
 $+ 1358^{\circ}55'$
 32
 38
 36
 175
 18
 15

$5\frac{1}{4}$ Cor. Sec. 19, 30-22

FK
BZ
JM
FK

July 1, 1963

3

2

Spike (NO TIES)

50'

347.52

T.P.
O

65.69

□

32.22 PP

Sec. Cor. 19, 20
30 29

82.09

X
Arc
Lite.



Dist
W. Pine
51.98

Dist
PP O

60.47

□

91.69

Dist
TP O

Sta Point ΔL ΔR

69+04.74	P.T.	4°04'	$\Delta = 8°08'$
+50		2°58.3'	$D = 4°$
68+03.25	P.I.		$T = 101.84$
68		1°58.3'	$L = 203.33$
+50		58.3	$R = 1432.40^{39}$
67+01.41	P.C.		

July 1, 1963

4

£

M.C. # 20 50'

C.I. Mont.

21.78

2

A0.

House

Fo.

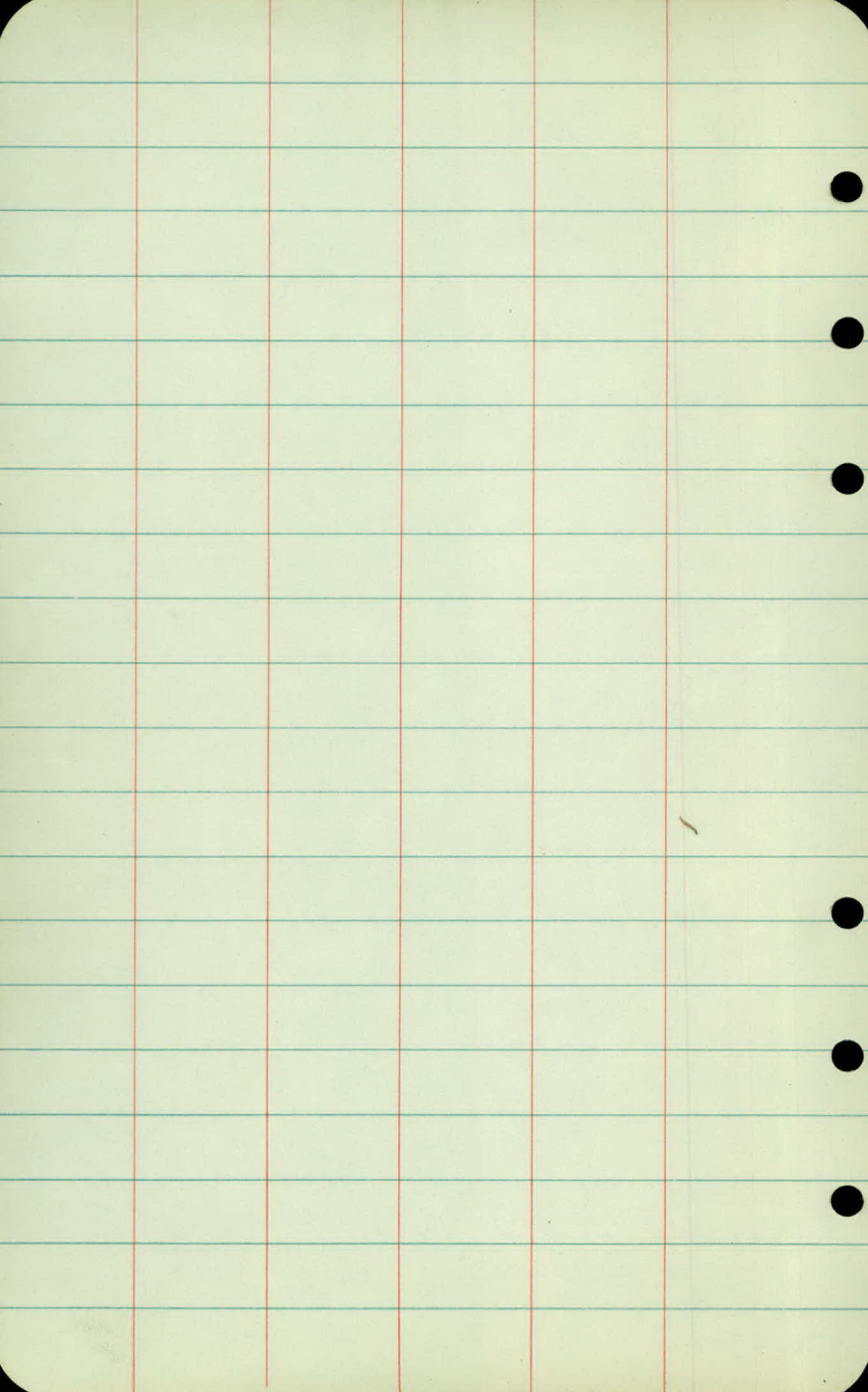
13 Disk
20" Oak

5 A.00

spike

70.63

0 Disk
P.P.



August 7, 1963

1

New Alinement

Sta	Point	ΔL	ΔB
-----	-------	------------	------------

151.49	P.T.		
--------	------	--	--

4°04'	
-------	--

$\Delta = 8°08'$

64			
----	--	--	--

3°02.4'	
---------	--

$D = 1°$

New			
-----	--	--	--

63+50	P.I.		
-------	------	--	--

2°02.4'	
---------	--

$T = 101.84$

63			
----	--	--	--

1°02.4'	
---------	--

$L = 203.33$

62+48.16	P.C.		
----------	------	--	--

0°00'	
-------	--

$R = 1432.40^{.39}$

61+02.95	P.I.		
----------	------	--	--

1+45.21			
---------	--	--	--

FK
LB
BZ
FK

August 7, 1963

2

spite

Sta	Point	ΔL	ΔR
-----	-------	------------	------------

68+04.74	P.T.	4°04'	
----------	------	-------	--

+50		2°58.8'	
-----	--	---------	--

+03.25	P.I.		
--------	------	--	--

67		1°58.3'	
----	--	---------	--

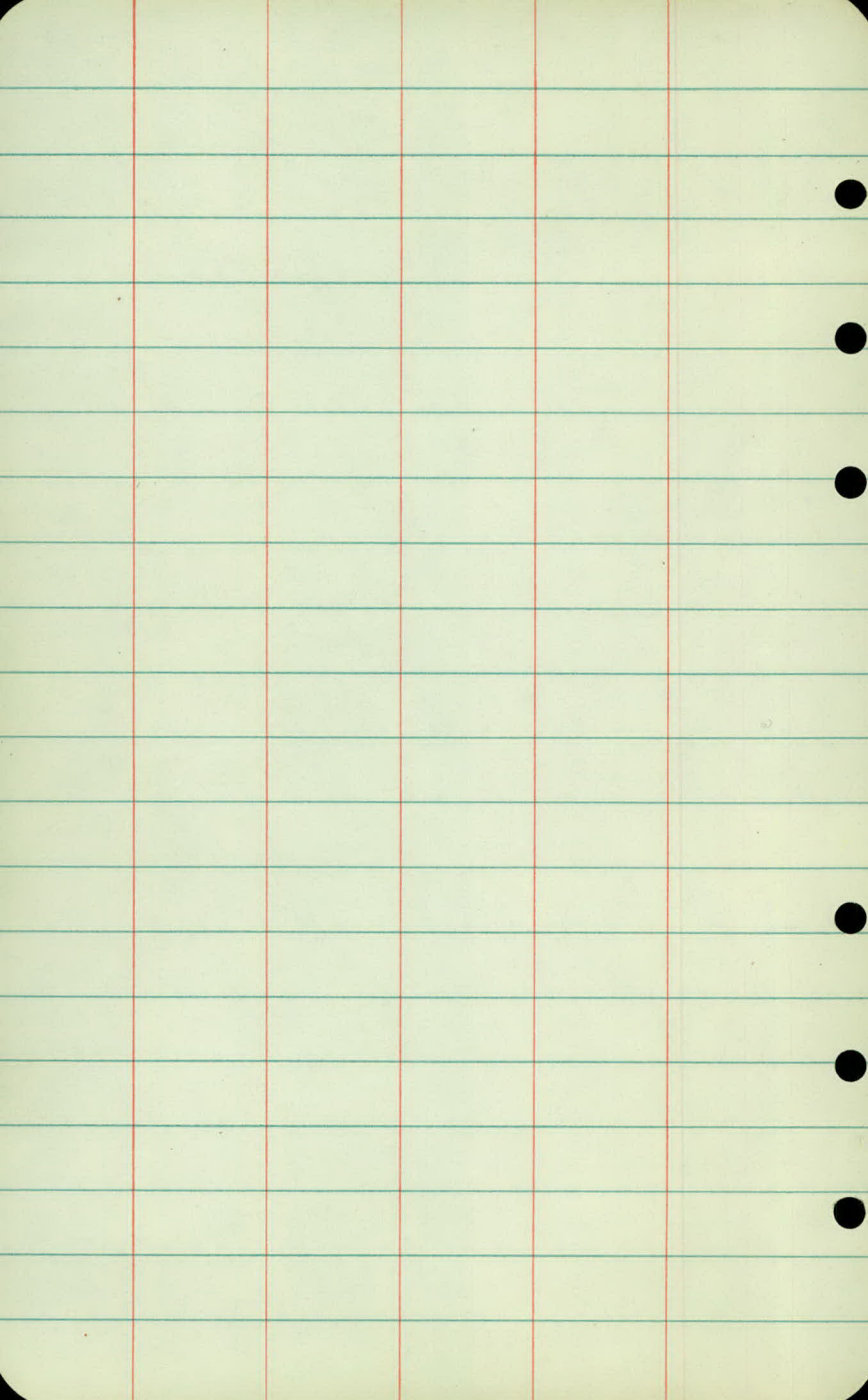
+50		0°58.3'	
-----	--	---------	--

66+01.91	PC	0°00'	
----------	----	-------	--

August 7, 1963 3

L of New Line is x' R to old L

Sta	x Dist	
62+50	0	✓
63	1.0	Elev. 932.1
+50	3.75	30.9
64	7.1	23.4
+50	10.5	19.5
65	13.3	17.7
+50	14.2	19.2
66	14.4	20.1
+50	13.2	20.0
67	10.9	20.0
+50	7.4	20.0
68	3.9	20.0
+50	1.0	19.9
69	0.1	19.5
+50	0	.



July 3, 1963

9

Mc Menemy St.

1-2+3

BT
13-14

0+00 = Monument

39+46.32 = Monument

39

+16 ^{12" Ash}
33

38

BT
13-10

+24 ^{Fe Cor}
28

+74 ^{Fe Cor}
28

+24 ^{PP}
22

+48 ^{R Tie}
Fc

+18 ^{PP}
20

37

+95 ^{8" BE}
32

BE
10 10

+76 ^{6" W}
35

+74 ^{6" Elm}
29

+61 ^{6" Willow}
34

+64 ^{6" W}
34

+60 ^{6" Elm}
26

36

BT
10-10

+67 ^{PP}
21

+98 ^{Fe Ent}
Lt

+86 ^{3-12" O}
44

+59 ^{12" O}
46

+11 ^{82" C/H}
30

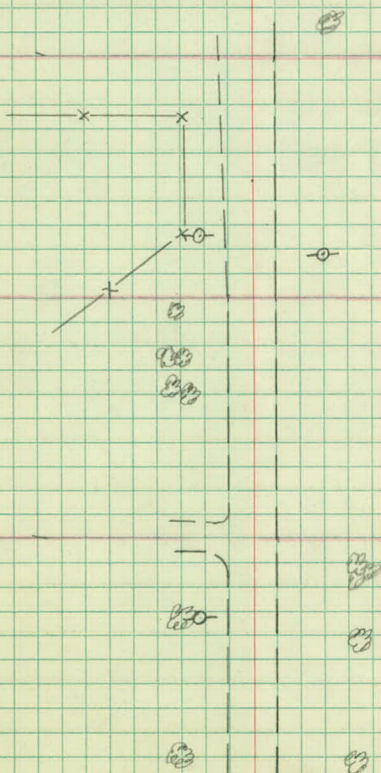
35

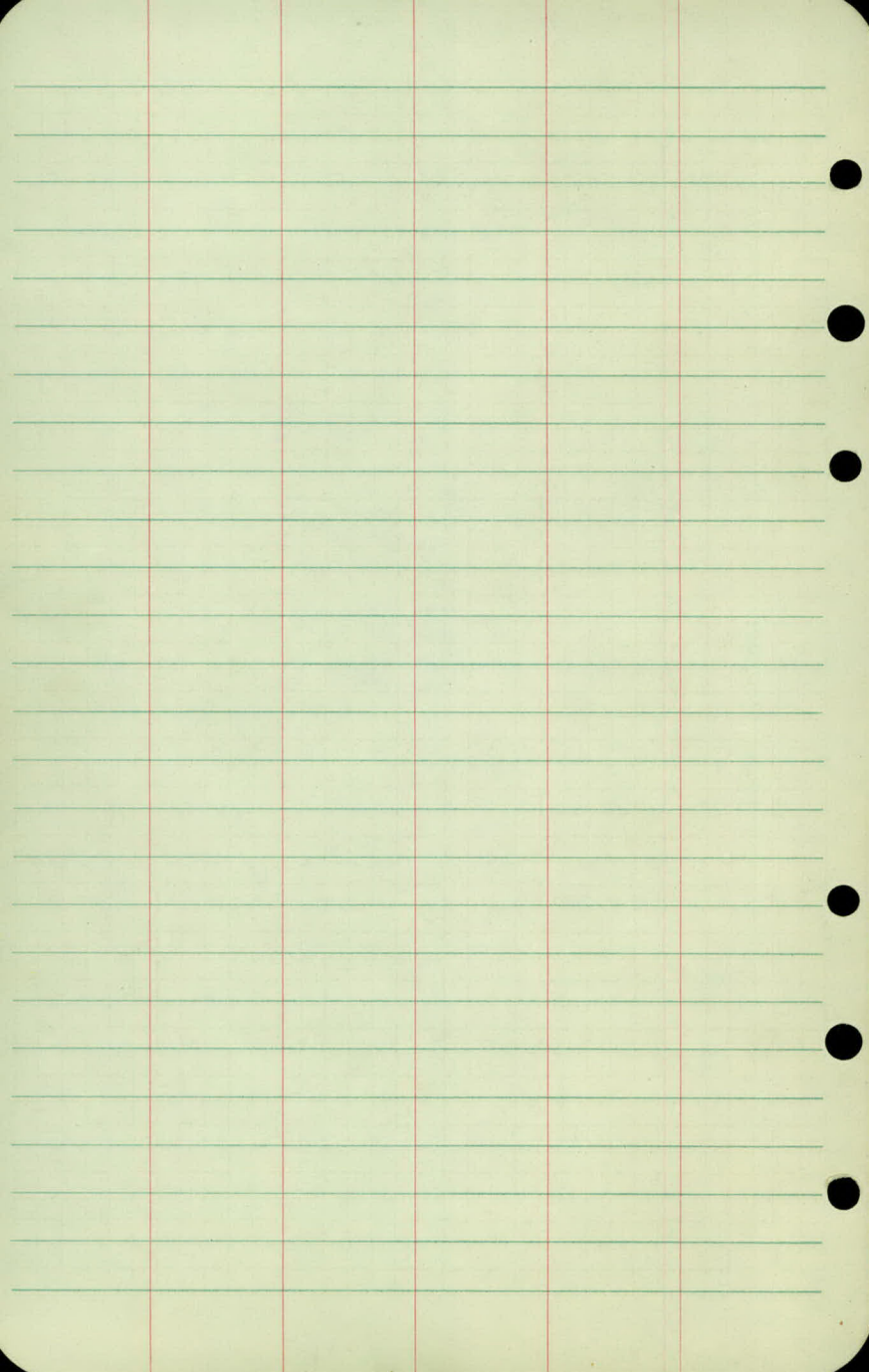
BT
11-10

+08 ^{12" O}
46

July 3, 1963

10





X-Sections

Mc Menemy St.

Sta + π - Elev.

B.M. 0.7792784

(927.07)

34 9.6 18.2

+50 9.2 18.6

35+00

✓

+50

✓

36

FK
LB
BZ
FK

July 13, 1963 12

LT

RT

Spike in Arc Lt Pole S.W. Cor. Co Rd F "4

McMenemy

17.2	17.2	18.6	18.8	18.9	18.6	18.2	17.2	17.2
10.6	10.6	9.2	9.0	8.9	9.2	9.6	10.6	10.6
22	20	14	10		9.5	16	20	22

21.6	25.9	26.3	26.5	26.2	15.9	16.4	17.9	19.4
6.2	1.9	1.5	1.3	1.6	11.9	11.4	9.9	8.4
29	37	44	55	75	75	65	37	30

17.4	17.5	18.6	18.9	19.2	18.9	18.3	17.6
10.4	10.3	9.2	8.9	8.6	8.9	9.5	10.2
21	19	16	10		9.5	17	25

20.5	23.2	22.6	22.5	22.3	12.4	12.4	16.5
7.3	4.6	5.2	5.3	5.5	15.4	15.4	11.3
28	34	50	66	75	75	60	37

15.4	16.2	16.5	18.3	19.2	19.5	19.4	18.9	15.7	14.1
12.4	11.6	11.3	9.5	8.6	8.3	8.4	8.9	12.1	13.7
75	60	41	26	9.5		9.5	16	23	29

9.9	10.5	11.6
12.9	12.3	16.2
75	64	47

Sta + π - Elev

927.84

36+50

✓

37

✓

TP 0.75 925.46 3.13 924.71

+50

✓

FK
LB
BZ

Lt

July 19, 1963
August 2, 1963
BT 13

11.8	14.8	19.5	19.9	20.1	19.8	19.2	16.2	12.1
160	130	8.3	7.9	2.7	8.0	8.6	11.6	15.7
35	25	16	10		9.5	15	22	31

11.4	11.2	11.4		10.4	10.2		10.2
16.4	16.6	16.4		17.4	17.6		17.6
46	57	75		75	63		44

14.5	17.0	20.5	20.8	21.2	20.8	20.4	15.9	11.9
13.3	10.8	7.3	7.0	6.6	7.0	7.4	11.9	15.9
27	22	16	10		9.5	15	32	34

12.8	12.3	12.7		10.3	10.3		10.5
15.0	15.5	15.1		17.5	17.5		17.3
38	52	75		75	61		40

Sta 38+00

16.1	19.2	22.2	22.4	23.0	22.6	22.1	18.7	12.1
9.4	6.3	3.3	3.1	2.5	2.9	3.4	6.8	13.4
27	22	16	12		10	15	23	41

15.0	14.7	14.5	14.7		11.3	10.5
10.5	10.8	11.0	10.8		14.2	15.0
36	51	62	75		75	50

Sta + π - Elev.

925.46

38

✓

+30

✓

TP 6.93 931.64 0.75 924.71

+60

BM 4.56 931.63 4.56 927.08 (927.07)

TP 9.28 938.16 0.75 930.88

BM 7.90 944.50 1.56 926.60

August 2, 1963

LT

8

RT

14

17.4	20.5	24.0	24.3	24.71	24.5	24.0	19.5
8.1	5.0	1.5	1.2	0.75	1.0	1.5	6.0
36	24	17	13		10	16	25

17.3	18.0
8.2	7.5
53	75

10.5	11.3	12.3	14.0
150	142	132	11.5
75	64	55	37

19.3	22.4	25.7	25.6	26.1	25.7	25.5	21.3	17.0
6.2	3.1	+0.2	+0.1	+0.6	+0.2	0.0	4.2	8.5
29	21	16	13		10	16	23	32

19.2	20.4	20.5
6.3	5.1	5.0
49	69	75

12.8	13.3	14.8
12.7	12.2	10.7
75	65	46

21.8	24.1	26.9	26.9	27.49	26.7	25.9	22.5	18.4
9.8	7.5	4.7	4.7	4.15	4.9	5.7	9.1	13.2
29	24	16	13		16	23	33	49

22.4	23.4	24.5
9.2	8.2	7.1
48	63	75

16.4	17.0
15.2	14.6
75	58

Spike in Arc Lite Pole S.W. Cor F & McMenemy

Spike in T.P. NW Cor "F" & McMenemy

Mo Menemy

Sta + π - Elev.

944.50

0 + 50

✓

1

✓

+ 50

FX
LDB
B7
FR

August 5, 1963

BT 15

	33.0	32.5	32.8	32.9	33.2	33.0	32.5	32.3	
	11.5	12.0	11.7	11.6	11.3	11.5	12.0	12.2	
	32	26	19	13		13	19	23	
	38.2	42.6	42.9			36.7	37.5	38.0	33.2
6.3	1.9	1.6			7.8	7.0	6.5	11.2	
48	63	75			75	58	43	31	
	37.3	33.8	31.8	32.3	32.7	32.5	31.8	32.3	
7.2	10.7	12.7	12.2	11.8	12.0	12.7	12.2		
46	36	24	12		13	22	30		
	42.6	43.3	43.0			37.3	38.2	39.0	34.9
1.9	1.2	1.5			7.2	6.3	5.5	9.6	
62	68	75			75	61	45	37	
	36.8	31.4	30.9	31.4	31.7	31.4	30.8	32.3	
8.5	13.1	13.6	13.1	12.8	13.1	13.7	12.2		
45	30	24	12		13	24	33		
	40.8	41.1	41.1			39.0	38.5	38.4	37.9
3.7	3.4	3.4			5.5	6.0	6.1	6.6	
61	68	75			75	67	56	45	

Sta	+	π	-	Elev
-----	---	-------	---	------

Sta	+	π	-	Elev
-----	---	-------	---	------

944.50

Sta	+	π	-	Elev
-----	---	-------	---	------

2

Sta	+	π	-	Elev
-----	---	-------	---	------

✓

Sta	+	π	-	Elev
-----	---	-------	---	------

+50

Sta	+	π	-	Elev
-----	---	-------	---	------

✓

Sta	+	π	-	Elev
-----	---	-------	---	------

3

Sta	+	π	-	Elev
-----	---	-------	---	------

✓

August 5, 1963 16

11

12

13

34.8	31.5	29.8	30.4	30.6	30.2	29.8	30.4	32.8
9.7	13.0	14.7	14.1	13.9	14.3	14.7	14.1	11.7
45	35	24	12		13	23	30	36

39.0	40.0	40.0			38.1	37.5	36.5	36.2
5.5	4.5	4.5			6.4	7.0	8.0	8.3
57	64	75			75	66	49	45

31.5	29.2	28.4	29.3	29.4	29.0	28.5	29.3	31.8
13.0	15.3	16.1	15.2	15.1	15.5	16.0	15.2	12.7
39	31	27	13.5		13	25	33	40

33.2	33.2	32.5	32.4			37.5	36.3	34.8
11.3	11.3	12.0	12.1			7.0	8.2	9.7
48	53	64	75			75	62	53

25.6	25.2	27.5	28.1	28.5	28.1	27.2		27.2
18.9	19.3	17.0	16.4	16.0	16.4	17.3		17.3
32	28	21	13		14	23		30

25.6	25.3	26.4			35.8	32.1	29.7	28.2
18.9	19.2	18.1			8.7	12.4	14.8	16.3
47	60	75			75	61	52	40

Sta + π - Elev.

944.50

3+50

✓

T.P. 12.65 954.15 3.00 941.50

Co. Rd. "F"

56+50

55 12.0 42.15

55+50 10.4 43.75

✓

56 9.4 44.75

57

11

✓

✓

August 5, 1963

14

15

16

17

22.4 22.1 38	24.3 20.2 32	26.1 18.4 22	27.0 17.5 14	27.7 16.8 13	27.3 17.2 24	26.5 18.0 32	26.0 18.5 32
20.8 23.7 51	20.8 23.7 25			28.6 15.9 75	27.8 16.7 66	27.2 17.3 55	26.6 17.9 42
50.3 3.9 31	46.5 7.7 27	44.0 10.2 22	44.8 9.4 16	45.2 9.0 11	45.2 9.0 11	45.3 8.9 22	47.9 6.3 3.1
50.3 3.9 35	49.8 4.4 47	49.4 4.8 59	48.7 5.5 7.5	48.1 6.1 7.5	50.1 4.1 66	51.4 2.8 58	52.6 1.6 50
49.1 5.1 31	46.7 7.5 28	43.7 10.5 22	44.5 9.7 17	44.8 9.4 11	44.9 9.3 16	44.5 9.7 17	44.8 9.4 18
49.3 4.9 37	48.8 5.4 47	48.7 5.5 57	47.7 6.5 75		44.9 9.3 75	44.6 9.6 69	44.4 9.8 54
			46.0 8.2 100				44.2 10.0 39

Sta + π - Elev

954.15

57+50

✓

✓

✓

TP 9.12 951.73 11.54 942.61

58

✓

✓

August 5, 1963 18

11

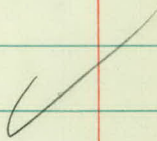
84

45.6	42.3	43.3	43.8	44.0	43.6	43.7	42.7	42.1
8.6	11.9	10.9	10.4	10.2	10.6	10.5	11.5	12.1
29	22	17	10		14	16	24	46

48.5	48.4	46.9	46.2	45.5	42.44	42.1	42.1
5.7	5.8	7.3	8.0	8.7	11.71	12.1	12.1
33	37	54	68	82	87	75	69

Ga. Apron

41.7	42.3	43.1	44.2
12.5	11.9	11.1	10.0
148	133	115	100



40.8	40.3	40.0
13.4	13.9	14.2
169	186	200

N.W. Cor. Lower Step H. # 310

45.1	45.4	45.7	40.7	41.8	42.3	42.5	41.9	42.1	41.6	40.8
6.6	6.3	6.0	11.0	9.9	9.4	9.2	9.8	9.6	10.1	10.9
64	47	33	23	18	11		165	17	18	23

44.5	43.7	42.2	41.5	41.3	41.5	40.9	40.9	40.5
7.2	8.0	9.5	10.2	10.4	10.2	10.8	10.8	11.2
81	100	123	145	167	68	54	39	27

41.3	41.5	41.8	41.2	42.34
10.4	10.2	9.9	10.5	9.89
200	182	71	75	Walk
				76.5

Sta + π - Elev.

951.73

58+50

✓

✓

59

✓

✓

August 5, 1963

19

14

14

14

43.1	39.2	40.4	40.8	41.1	40.3	40.4	39.7	39.6
8.6	12.5	11.3	10.9	10.6	11.4	11.3	12.0	12.1
30	23	16	10		16	18	24	32

43.7	43.6	43.4	42.8	42.2		39.9	40.2	40.1
8.0	8.1	8.3	8.9	9.5		11.8	11.5	11.6
35	51	68	87	100		75	66	44

44.2	43.9	42.8	41.7	41.2
7.5	7.8	8.9	10.0	10.5
200	182	162	193	122

38.8	37.8	39.1	39.4	39.6	38.6	38.9	38.2
12.9	13.9	12.6	12.3	12.1	13.1	12.8	13.5
28	23	15	10		19	20	22

42.9	42.8	42.5	41.2	34.1	36.2	37.2	38.3
8.8	8.9	9.2	10.5	17.6	15.5	14.5	13.4
34	57	73	100	75	56	44	29

43.8	41.9	40.7	40.5
7.9	9.8	11.0	11.2
200	170	147	126

Sta + π - Elev

951.73

59+50

✓

✓

T.P. 4.80 948.24 8.29 943.44

60

✓

✓

601 27.95

August 5, 1963

20

Lt.

RT

39.3

35.8

37.5

37.9

38.0

37.2

37.6

36.5

12.4

15.9

14.2

13.8

13.7

14.5

14.1

15.2

29

21

10

7

22

23

25

43.3

43.1

42.4

41.8

40.9

32.9

35.4

36.9

8.4

8.6

9.3

9.9

10.8

18.8

16.3

14.8

34

37

58

75

100

75

55

32

39.8

39.9

40.2

40.5

11.9

11.8

11.5

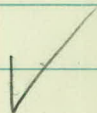
11.2

200

168

143

122



36.6

34.9

35.7

36.3

36.6

36.4

35.3

35.5

34.7

11.6

13.3

12.5

11.9

11.6

11.8

12.9

12.7

13.5

27

23

11

2.5

12

27

27.5

30

42.5

42.8

42.5

42.1

41.7

29.4

31.3

32.8

33.9

5.7

5.4

5.7

6.1

6.5

18.8

16.9

15.4

14.3

35

49

68

83

100

75

64

51

37

39.0

40.1

40.9

41.8

9.2

8.1

7.3

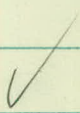
6.4

200

175

150

125



Sta + π - Elev.

948.24

60+27.95

✓

✓

BM 10.91 947.52 11.63 936.61 (936.61)

+40

✓

✓

August 5, 1963 21

14

14

14

38.3	34.2	34.2	35.1	35.4	35.2	33.7	34.0	33.2
9.9	14.0	14.0	13.1	12.8	13.0	14.5	14.2	15.0
33	26	18	6		15	32	33	36

42.6	42.9	42.9	42.8
5.6	5.3	5.3	5.4
38	59	81	100

29.0	29.9	31.2	33.2
19.2	18.3	17.0	15.0
51	50	43	41

39.7	40.5	41.1	42.0
8.5	7.7	7.1	6.2
200	175	150	125

28.5	26.2
19.7	22.0
61	75

Spike in T.P. N.W. Cor. "F" & McMenemy

36.1	34.2	33.9	34.4	35.0	34.7	32.8	33.0
11.4	13.3	13.6	13.1	12.5	12.8	14.7	14.5
31	25	18	11		16	35	36

42.3	42.5
5.2	5.0
39	50

27.2	28.0	29.6	31.7
20.3	19.5	17.9	15.8
56	55	47	43

27.7	27.3	24.0
19.8	20.2	23.5
60	64	86.3

Sta + π - Elev.

947.52

60+75 Gutter or Ditch Line

V

+90 Shoulder Line

61+02.95

25
15
20

+16

+28

August 5, 1963

22

1+

8+

32.7	32.6	33.0	33.5	33.5	32.9	31.3	29.5	27.9
14.8	14.9	14.5	14.0	14.0	14.6	16.2	18.0	19.6
50	43	22	17		27	41	53	61

27.3	24.7	26.1
25.2	22.8	21.4
86.3	71	64

32.9	33.0	33.2	32.8	32.4	29.6	27.3	26.9
14.6	14.5	14.3	14.7	15.1	17.9	20.2	20.6
50	35	20		30	54	81	86.3

33.2	33.0	33.1	30.5	28.7	27.5
14.3	14.5	14.4	17.0	18.8	20.0
50	24		32	64	86.3

33.1	33.0	32.3	31.3	30.3	29.7	29.1	28.0	27.8
14.4	14.5	15.2	16.2	17.2	17.8	18.4	19.5	20.2
50	43	21		22	36	51	73	86.3

32.6	31.9	30.8	29.5	29.0	28.5
14.9	15.6	16.7	18.0	18.5	19.0
50	24		16	38	50

24.7	36.2	37.8
22.8	11.3	9.7
86.3	76	61

Sta + π - Elev

947.52

61+45

✓

✓

+77.95

✓

✓

BM 7.14 943.75 10.91 936.61 (936.61)

August 5, 1963 23

14

14

14

38.2	37.2	35.9	34.8	28.6	27.4	27.8	27.6
9.3	10.3	11.6	12.7	18.9	20.1	19.7	19.9
50	36	17		9	12	20	27

26.3	26.8	27.9	28.0
21.2	20.7	19.6	19.5
69	63	51	42

23.7	21.3
23.8	26.2
77	86.3

✓

37.5	36.9	36.6	36.3	35.0	25.2	25.7	26.5
10.0	10.6	10.9	11.2	12.5	22.3	21.8	21.0
100	75	50	25		15	23	31

38.3	39.0	39.1	38.6	22.2	24.6	26.0	26.5
9.2	8.5	8.4	8.9	25.3	22.9	21.5	21.0
125	150	175	200	76	69	59	45

28.8	18.2	14.7
18.7	29.3	32.8
28.7	86.3	95

✓

Spike in T.P. NW Cor F & Mc Menemy

Sta + π - Elev

94375

62

✓

✓

+50

✓

✓

2 August 5, 1963 24
RT

27

37.1	35.5	34.7	35.0	34.8	24.9	24.4	25.5	25.8
6.7	8.3	9.1	8.8	9.0	18.9	19.4	18.3	18.0
100	75	50	25		14	20	29	33

38.9	40.0	40.4	40.8	40.1	23.6	25.3	25.3	26.0
4.9	3.8	3.4	3.0	3.7	20.2	18.5	18.5	17.8
126	150	168	183	200	70	65	61	47

19.0	14.5	13.5
24.8	29.3	30.3
80	94	100

35.4	34.3	33.5	33.5	34.5	34.4	23.8	23.6	24.4
8.4	9.5	10.3	10.3	9.3	9.4	20.0	20.2	19.4
100	73	45	25		2	19	28	37

36.6	37.8	39.3	40.1	40.3	20.5	23.9	24.5	24.9
7.2	6.0	4.5	3.7	3.5	23.3	19.9	19.3	18.9
122	136	150	176	200	77	67	60	50

17.3	15.9	11.8
26.5	27.9	32.0
85	91	110

Sta + π - Elev.

943.75

63

✓

✓

+50

BM

386

940.47

7.14

936.61

LT

August 5, 1963 25
RT

76	8.9	10.9	11.1	11.3	12.7	20.8	21.5	20.0
64	46	20	9		4	18	29	39

35.7	35.0	34.6	34.9
8.1	8.8	9.2	8.9
88	100	119	138

31.1	23.0	22.3	23.8
19.5	22.7	23.8	24.0
24.3	21.1	20.0	19.8
82	68	61	50

36.1	35.2	34.9
7.7	8.6	8.9
200	175	154

17.5	16.5
26.3	27.3
89	100

35.8	35.9	36.2	35.5	34.3	32.3	32.2	31.3	21.9	21.5
8.0	7.9	7.6	8.3	9.5	11.5	11.6	12.5	21.9	22.3
100	98	70	50	28		2	3	18	25

34.8	34.8	34.5	34.3
9.0	9.0	9.3	9.5
124	147	178	200

22.5	23.1	22.8	22.5
21.3	20.7	21.0	21.3
65	51	39	33

21.3	19.2	16.0
22.5	24.6	27.8
69	75	85

12.6	31.2
100	

Spike in T.P. NW Cor F4 McMonerney

Sta + π - Elev.

9
14.87

940.47

64

✓

✓

+50

✓

✓

✓

✓

2B
BZ
FK

L+

±

August 6, 1963

26

RT

35.9	34.9	31.0	29.3	28.1	21.3	20.6	21.8	22.1
4.6	5.6	9.5	11.2	12.4	19.2	19.9	18.7	18.4
74	53	29	4		10	24	37	48

36.8	36.9	36.6	36.4
3.7	3.6	3.9	4.1
92	100	127	153

14.0	18.0	20.7	21.5
26.5	22.5	19.8	19.0
80	72	66	60

34.8	35.8
5.7	4.7
200	183

12.3	11.6
28.2	28.9
90	100

✓

26.5	25.7	24.8	21.5	19.8	19.6	19.5
14.0	14.8	15.7	19.0	20.7	20.9	21.0
21	12	5		4	10	23

27.4	30.6	33.9	35.5
13.1	9.9	6.6	5.0
33	55	78	100

20.7	21.3	21.0
19.8	19.2	19.5
57	45	34

36.7	36.9	37.0	36.9	36.1
38	36	35	36	4.4
200	177	152	133	113

19.9	16.5	12.2	11.0
20.6	24.0	28.3	29.5
63	70	80	90

✓

10.6
29.9
100

Sta + π - Elev.

940.47

65

✓

✓

+06 N. Side 22.71 17.76

+14 S. Side 24.56 15.91

+50

✓

✓

✓

August 6, 1963 27
 Lt Rt

34.2	30.9	26.4	23.7	19.8	17.4	17.6	20.5
6.3	9.6	14.1	16.8	20.7	23.1	22.9	20.000
100	71	47	19		6	14	28

20.2	20.7	20.7
20.3	19.8	19.8
52	42	31

16.6	11.9	10.7	10.4
23.9	28.6	29.8	30.1
60	74	89	100

24.8	24.0	23.7	19.9	18.9	18.0	18.4	19.9
15.7	16.5	16.8	20.6	21.6	22.5	22.1	20.6
43	33	18	8		6	10	17

25.7	27.4	28.8
14.8	13.1	11.7
20	86	100

19.1	20.0	20.5	20.2
21.4	20.5	20.0	20.3
51	46	35	23

15.1	11.8	10.6
25.4	28.7	29.9
59	68	75

10.1	10.2
30.4	30.3
100	87

Sta	+	π	-	Elev.
		940.47		

66

✓

✓

+50

✓

67

TP2

3.57

936.90

TP1

0.88

923.53

17.82

922.65

~~TP2~~

~~3.57~~

919.96

August 6, 1963 28
Lt. Rt.

Lt.

Rt.

10.3	11.7	13.5	21.6	22.5	21.9	20.6	20.3
84	55	26	8		6	12	17
30.2	28.8	27.0	18.9	18.0	18.6	19.9	20.2
10.5					18.9	19.8	20.3
100					21.6	20.7	20.3
					46	39	29

25.4	29.8	30.5	30.6
52	61	79	100
15.1	10.7	10.0	09.9

12.3	21.8	22.5	22.2	21.5	20.7	20.4	21.0	21.8
33	14	8	2		9	22	34	39
28.2	18.7	18.0	18.3	19.0	19.8	20.1	19.5	18.7
12.6	11.2	9.6	7.7		29.9	30.5	29.6	27.9
43	66	86	100		100	85	66	53
27.9	29.3	30.9	32.8		10.6	10.0	10.9	12.6
								15.0

9.6	7.6	5.3	2.3	30.6	30.9	30.4	28.8	26.6
46	62	78	100	100	75	61	49	41
30.9	32.9	35.2	38.2	09.9	09.6	10.1	11.7	13.9
31.7	21.8	21.8	21.0	19.9	19.9	19.4	18.6	
38	16	8	5	5	15	25	32	

Sta + π - Elev.

923.53

67+50

✓

68

✓

+50

✓

August 6, 1963 29

LT

2

RT

19.1	18.6	19.5	19.9	20.0	20.0	19.6	19.0	17.3
4.4	4.9	4.0	3.6	3.5	3.5	3.9	4.5	6.2
15	13	8	2		10	20	25	35

→ 19.8
3.7
22

✓
11.0
12.5
100
11.2
12.3
76
13.5
10.0
57

19.3	18.7	19.3	19.7	19.9	20.0	19.6	18.2	16.9
4.2	4.8	4.2	3.8	3.6	3.5	3.9	5.3	4.6
20	18	14	7		5	16	31	50

in Ent

→ 19.0
4.5
22
19.4
4.1
24

✓
8
16.8
100
16.4
7.1
85
16.3
7.2
75

19.4	18.8	19.5	19.8	19.9	19.6	18.9	18.0	17.5
4.1	4.7	4.0	3.7	3.6	3.9	4.6	5.5	6.0
21	20	13	7		13	18	24	38

→ 20.0
3.5
24

✓
15.7
7.8
100
16.2
7.3
73
16.7
6.8
51

Sta + π - Elev.

923.53

69

✓

+50

✓

70

✓

+50

5.9 17.63

71

7.0 16.53

+50

8.2 15.33

BM

5.18 918.35

August 6, 1963

30

LT

RT

18.6	18.2	19.0	19.5	19.5	19.2	19.2	18.3	17.6
4.9	5.3	4.5	4.0	4.0	4.3	4.3	5.2	5.9
23	21	17	10		9	12	20	32
18.6					11.5	15.4	16.2	16.9
4.9					12.0	8.1	7.3	6.6
25					100	80	60	45

18.1	18.5	18.1	18.5	19.0	19.2	18.7	18.3	17.2
5.4	5.0	5.4	5.0	4.5	4.3	4.8	5.2	6.3
23	22	20	17	10		11	16	24
18.6						20.8	18.4	17.3
4.9						2.7	3.4	5.1
24						100	83	65

18.8	17.8	18.3	18.4	18.6	18.3	18.0	17.2	18.2
4.7	5.7	5.2	5.1	4.9	5.2	5.5	6.3	5.3
22	19	15	11.5		12	16	19	38
19.5	21.7				23.5	22.7	21.7	19.9
4.0	1.8				0.0	0.8	1.8	3.6
27	34				75	72	65	49

Spike in T.P. Sta 69+14 RT 34'

Sta	+	π	-	Elev
		945.43		936.90 ✓
TP ₂	8.53	928.49		917.96

67+50

68

+50

69

+50

70

939.13

7.29

931.84

TP

11.29

~~926.19~~

13.59

~~914.90~~

927.05

BM

12.08

927.07 ✓

2.55

927.07

August 6, 1963

31

L+

±

40.5	39.9	38.1	37.0
4.9	5.5	7.3	8.4
100	91	66	46

✓

39.7	39.5	38.8	38.5
5.7	5.9	6.6	6.9
100	86	69	50

✓

40.1	39.0	38.0
5.3	6.4	7.4
100	75	52

✓

38.7	38.1	37.1
67	73	83
100	82	50

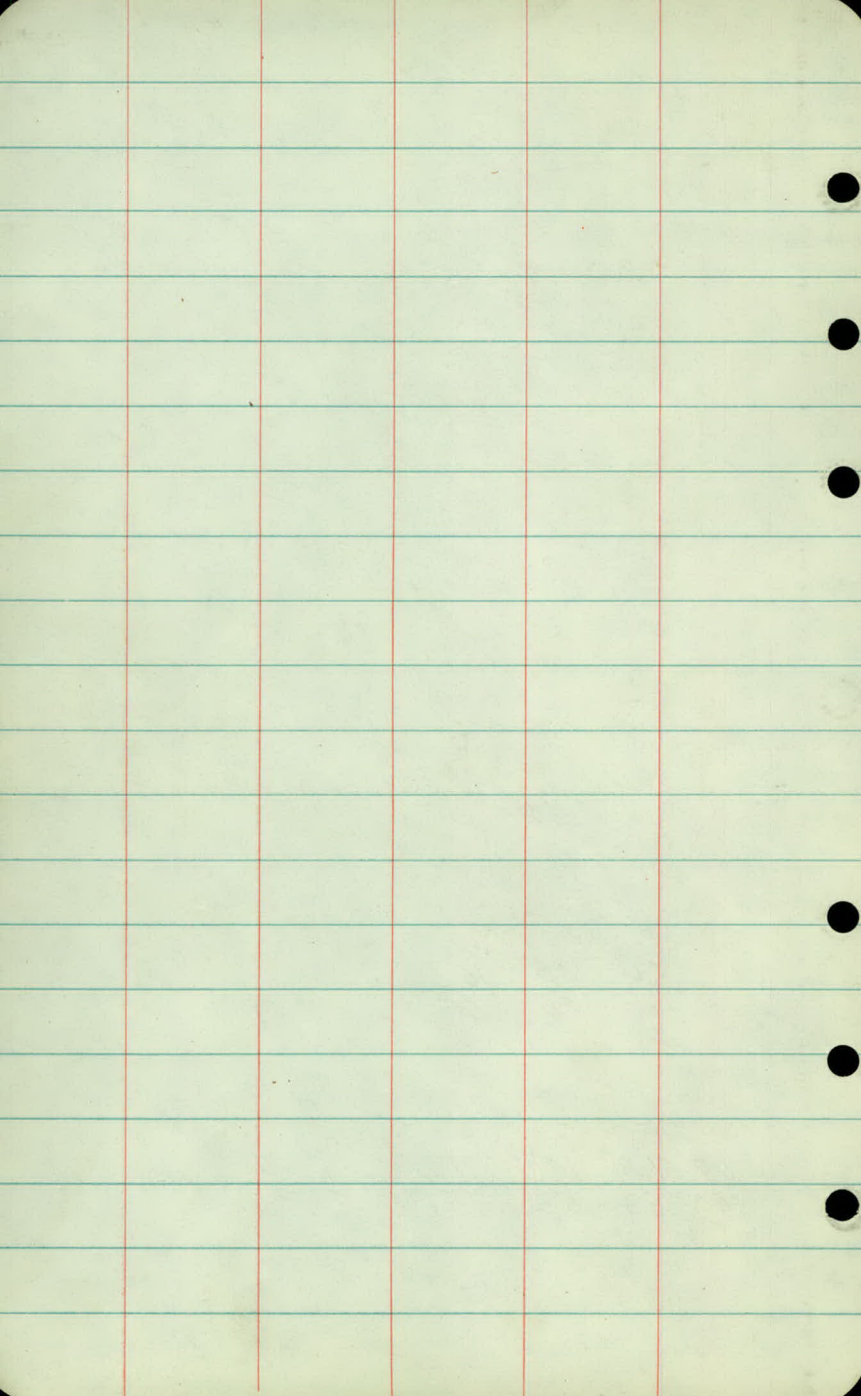
✓

36.8	36.1	35.2
86	93	10.2
100	84	50

✓

37.5	36.2	34.9	33.8
79	9.2	10.5	11.6
100	88	65	51

✓



July 28, 1966

32

X-sections

Sta 50 to 56

Sta + π - Elev

BM 6.33 948.94 942.61

55 668 42.26

TP 0.42 938.61 10.75 938.19 54 $\pm$

BM 7.16 931.45 931.38

51 14.8 23.8

+50

+80

52

✓

54
JD
PA

July 28, 1966

Lt

2

Rt.

33

Top N.W. Cor Lower Step Ho # 310

Spike in PP # 74 Lt sta 52+17

✓

12.6	24.2	25.5	26.0	26.5	26.1	23.8	22.7
16.0	14.4	13.1	12.6	12.1	12.5	12.8	15.9
25	22	16	11		11	17	23

✓

31.5	29.9	27.5	27.2	27.5	28.0	27.8	27.2	25.9	25.0
7.1	8.7	11.1	11.4	11.1	10.6	10.8	11.4	12.7	13.6
48	29	21	18	10		11	22	26	29

✓

32.5	28.1	28.0	28.6	28.9	28.8	28.1	27.6	28.2	26.6
6.1	10.5	10.6	10.0	9.7	9.8	10.5	11.0	10.4	12.0
32	24	19	11		11	23	29	31	34

32.4

33.3

6.2 5.3 1.0
33 42

26.0

12.6
36

Sta + π - Elev.

938.61

52+50

✓

53

✓

BM 19.25 950.70 7.16 931.45 (931.38)

52+50

53

FX
JT
JD
PA

Lt

July 28, 1966
July 29, 1966

34

✓
36.2 30.8 30.1 30.8 31.2 30.9 30.2 33.6 32.3
2.4 7.8 8.5 7.8 7.4 7.7 8.4 5.0 6.3
29 22 20 11 11 25 33 34

27.8 30.4
10.8 8.2
50 41

✓
33.3 33.3 32.3 32.7 37.3
5.1 5.3 6.3 5.9 1.3
12 22 24 31

33.8 36.1 37.3
4.8 2.5 1.3
47 35 33

Spike in P.P. # 74 Lt. sta 52 + 17

43.9 43.8 42.3 41.1
6.8 6.9 8.4 9.6
100 75 58 36

✓
44.6 46.0 46.5 46.3 32.3 33.3
6.1 4.7 4.2 4.4 18.4 17.4
100 80 61 40 20 11

Sta + π - Elev.

950.70

53+50

✓

54

✓

+50

✓

Lt.

July 29, 1966

Rt

35

AA.9 45.8 46.6 35.0 35.6 35.9 35.6 3A.7 3A.1 39.9
 58 49 41 157 151 148 151 160 166 10.8
 80 61 39 21 11 11 19 21 32

AA.1

66
100

37.0 37.7 39.3
 13.7 13.0 11.4
 56 46 35

45.8 37.2 37.2 37.8 38.2 37.9 37.1 37.2 37.3
 4.9 13.5 13.5 12.9 12.5 12.8 13.6 3.5 3.4
 34 23 21 11 11 22 34 36

45.5

AA.6

A3.A

5.2 6.1 7.3
 61 82 100

39.7 40.9 42.9 45.6
 11.0 28 7.8 5.1
 100 78 62 45

A9.5

39.5

39.4

40.1

40.4

40.2

39.8

39.9

1.2 11.2 11.3 10.6 10.3 10.5 10.9 10.8
 35 22 19 11 11 18 21

A8.5

A8.0

46.5

AA.5

2.2 2.7 4.2 6.2
 45 63 84 100

Sta + π - Elev.
950.20

55

15.89 958.21 8.38 942.32

54+50

55

+50

✓

56

✓
BM

15.53 942.68 (942.61)

Lt.

July 28, 1966

Rt

36

$\checkmark$
 A1.5 A1.3 A2.0 A2.3 A2.1 A1.5 A1.4 A1.7
 9.2 9.4 8.7 8.4 8.6 9.2 9.3 6.0
 23 19 11 11 19 21 25

$\checkmark$
 52.8 50.6 A8.1 A5.0
 5.4 7.6 10.1 13.2
 37 56 72 93

$\checkmark$
 A6.2 A9.5 50.9 52.1 5A.8 63.2 51.0 A7.3
 12.0 8.7 7.3 6.1 3.4 5.0 7.2 10.9
 100 77 60 38 38 57 78 100

$\checkmark$
 53.2 A2.9 A2.9 A3.5 A3.8 A3.4 A3.2 A3.9 55.2
 5.0 15.3 15.3 14.7 14.4 14.8 15.0 14.3 3.0
 37 23 18 11 11 19 21 39

$\rightarrow$ 52.2 51.3 A8.6 A7.3
 6.0 6.9 9.6 10.9
 54 70 92 100

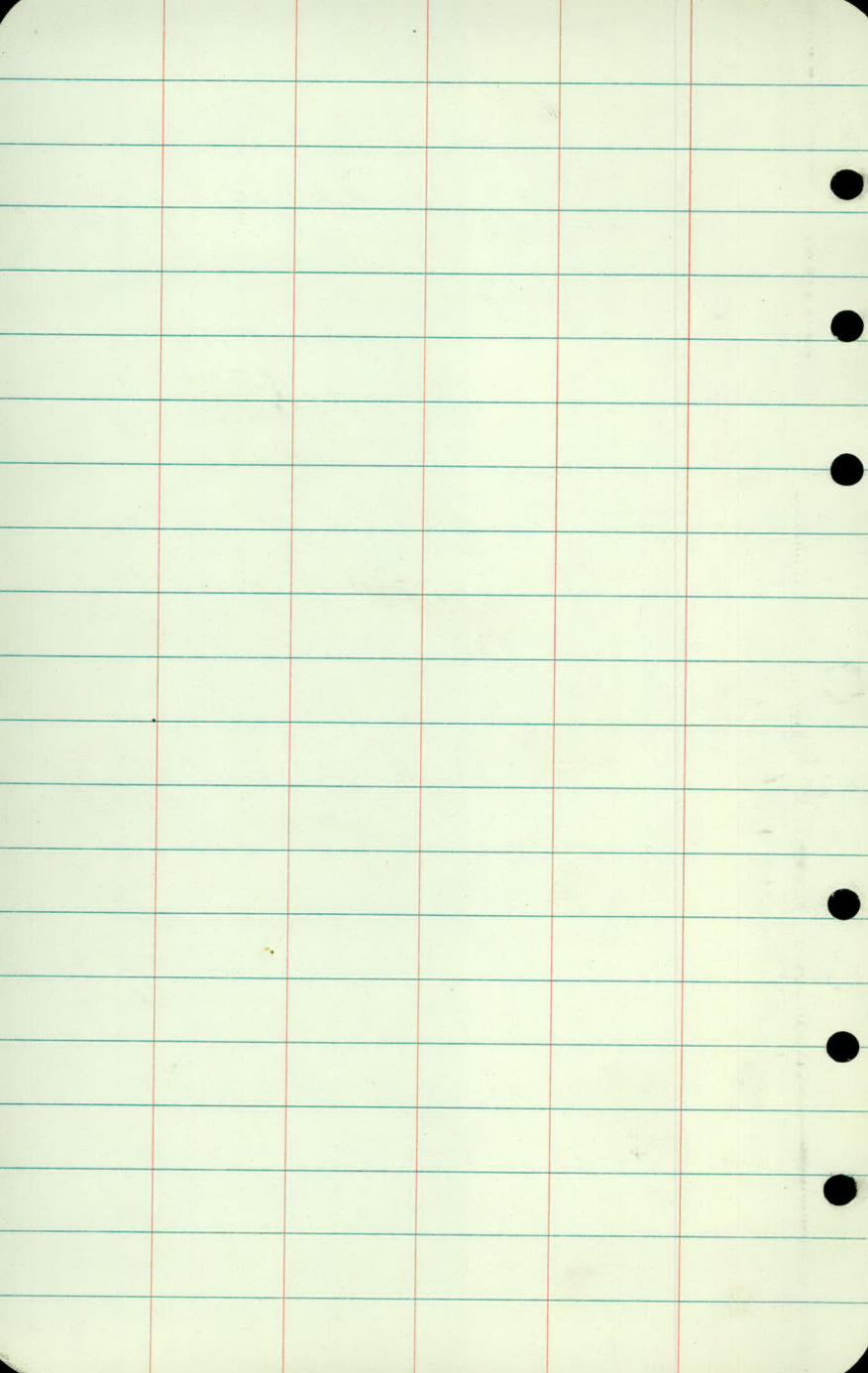
A7.1 50.0 52.6 55.2
 10.5 8.2 5.6 3.0
 100 84 66 42

5A.0 A1.2 A4.5 A4.8 A4.9 A4.7 A4.3 A3.8 A4.1 52.3
 42 3.8 14.0 13.7 13.4 13.3 13.5 13.9 14.4 14.1 5.9
 37 33 20 18 11 11 18 22 23 34

62.1 50.1 A8.4 A6.8
 5.5 8.1 9.8 11.4
 55 73 89 100

A7.0 A8.9 50.6 52.2
 11.2 9.3 7.6 6.0
 100 84 65 39

52.2 NW corner stop 42.310



April 4, 1967

1

Co. B. L. "F" and McMenemy

New X-Sections & Slope Stokes

Sta	PG	PGR	Elev.
BM	13.10	940.17	927.07
61+02.95		8.01	32.16 33.1
61+45	32.62	7.55 27 4.8 24 7.2	32.37 32 36.6 (936.51) 936.61
60	£		3.57 36.6 36.6 ✓
+78	32.15	8.02 3.9 0.1	31.47
62	31.75	8.42 5.4 2.7 2.1 3.3	30.67
+50	30.6	9.6 7.4 2.2 1.1	33.57
63	29.00	11.17 6.9 4.3 2.1 6.4 2.5	32.27
+50	27.25	12.92 6.1 6.8 3.4 10.2	
T.P.	4.84	935.17	9.84 930.33

FR
WM
FS
DS
LPD

April 4, 1967

Lt

£ 2

Spike in Arc Lt. SW, Cor F + McMenamy

^{35.8}	^{37.6}	^{37.5}	^{36.5}	^{35.2}	^{33.1}	^{32.5}	^{32.4}
20	26	[2.7]	3.7	50	7.1	7.7	7.8
50	43	[4.8]	35	26	22	13	
NG		[40.2]					

^{36.7}	^{36.1}	^{36.3}	^{36.2}	^{32.7}	^{31.7}	^{31.5}	^{31.3}
3.5	4.1	[3.9]	4.0	7.5	8.5	8.7	8.9
50	44	[4.1]	32	25	15		3
		[39.15]					

^{35.1}	^{35.2}	^{37.2}	^{35.1}	^{31.3}	^{30.7}	^{30.5}
5.1	5.0	[3.0]	7.1	8.9	9.5	9.7
50	46	[5.4]	30	15		4
		[41.1]				

^{33.6}	^{32.8}	^{32.6}	^{32.7}	^{33.6}	^{33.6}
6.6	7.4	7.6	7.5	6.6	6.6
50	[2.2]	35	17		3
	[36.3]				

^{35.1}	^{34.2}	^{33.3}	^{32.9}	^{32.1}	^{32.3}
5.1	6.0	[6.9]	7.3	8.1	7.9
50	47	[4.3]	30	13	
		[39.4]			

^{35.0}	^{34.3}	^{34.1}	^{33.7}	^{33.4}	^{32.7}
5.2	5.9	[6.1]	6.5	6.8	7.5
50	45	[6.8]	29	12	3
		[43.2]			

Nail in PP

Sta PG PGR - Elev.

935.17

64 25.62 9.55

5.55

2.75

8.30

+50 24.24 10.93

9.1

1.8

9

2.7

65 23.09 12.08

11.5

6

+50 22.19 13-

100

21

10

31

33

66 21.54 13.63

7.9

T.P. 3.82 925.28 13.71 921.46

2.8

7.49

917.79

917.76

5.99
7.5

9.5

5.80

919.48

+50 21.05 4.23 4.83

6.1

13

20.8

3.5

F 3.1 on 25

April 4, 1967

Lt

L

3

$\left\{ \begin{array}{l} 31.2 \\ 4.0 \\ C 5.55 \\ 41.3' \end{array} \right\}$

22.8

134

$\left\{ \begin{array}{l} 26.1 \\ 9.1 \\ C 1.8 \\ 35.7' \end{array} \right\}$

$\left\{ \begin{array}{l} 23.7 \\ 11.5 \\ C 0.6 \\ 33.9' \end{array} \right\}$

$\left\{ \begin{array}{l} 24.2 \\ 11.0 \\ C 2.0 \\ 36.0' \end{array} \right\}$

$\left\{ \begin{array}{l} 27.3 \\ 7.9 \\ C 5.7 \\ 41.5' \end{array} \right\}$

F.L. NE 18" SCP

Top NE Cw

$\left\{ \begin{array}{l} 19.2 \\ 6.1 \\ F 1.3 \\ 28.9' \end{array} \right\}$

Sta	PG	PER	SGR	Elev.
-----	----	-----	-----	-------

925.28

67	20.8	4.48	5.1	
----	------	------	-----	--

6.2
1.2
3.3
2.5

+50	20.5	4.78	5.38	
-----	------	------	------	--

5

	20.2	5.08	5.7	
--	------	------	-----	--

5

1.8

7.49 917.79 917.76

April 4, 1967. 4
L

^{19.1}
{ 6.2
F1.1
28.3' }

^{19.4}
{ 5.9
F0.5
26.5' }

^{19.1}
{ 6.2
F0.5
26.5' }

F.L. NE 18" SCP

