

BK. 119

DR 16

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

PLAN

Survey

CLEVELAND AVE

From ARPENTEUR Co. RD. D-5
ALSO DITCH #5

Road Acc't. No. 5

Date Filed 1-31-45

File

INDEX

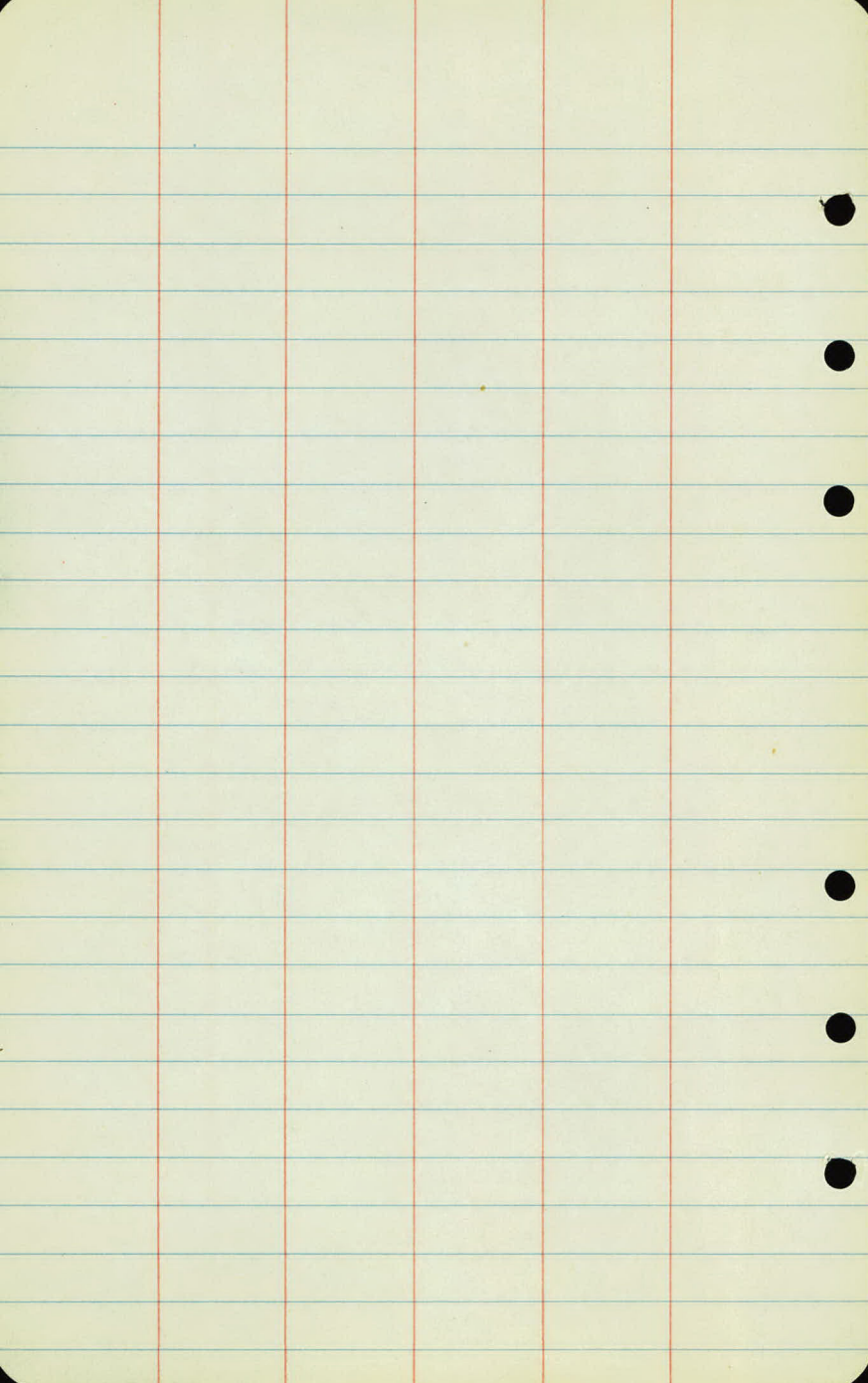
Page

DITCH No. 5.

Align	1-6
Topog	7-16
Stadia	17-18
X sections	19-49
Levels - Jones Lake to Co. Ed. E.	50-57
Line Revision	58-68
Misc Levels	69-70

CLEVELAND AVE.

Align	71-77
Topog.	78-114
Borings	115-118
Bench Levels	119-121
X sections	122-208
Profile Levels	
Sta-111 to 143	209-214
Sta-186 to 213	215-220



PLAN SURVEY

DITCH NO. 5

Wilson Lake to Jones Lake

INDEX

Align. 1-6

Topog. 7-16

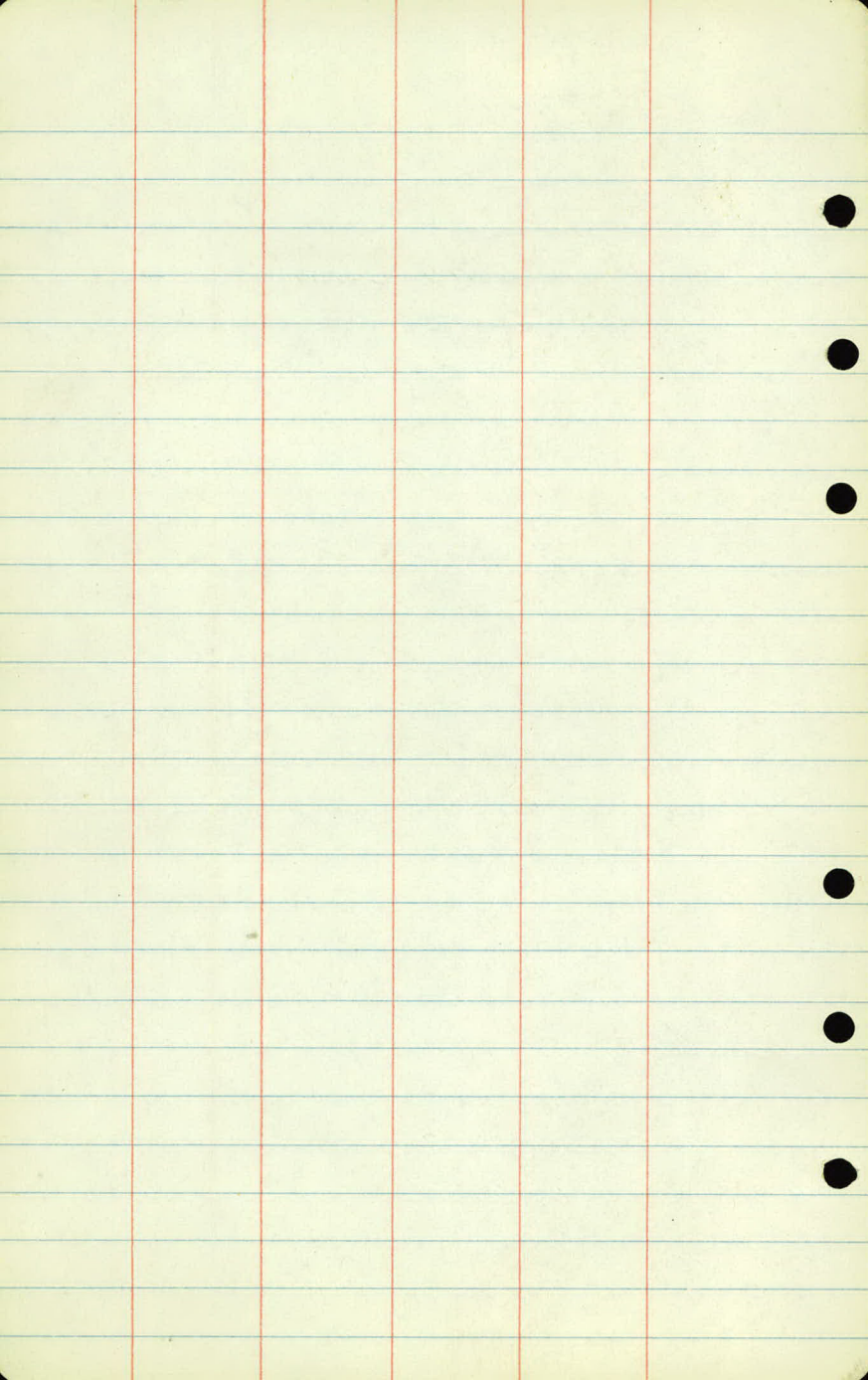
Stadia 17-18

Xsections 19-49

Levels
Jones Lake to Co. Rd. E 50-57

Line Revisions 58-68

Misc. Levels 69-70



Alignment

Sta.	Point	$\Delta Lt.$	$\Delta Rt.$
------	-------	--------------	--------------

9 +49.95	P.I.	10°43'	
----------	------	--------	--

7 +21.22	P.I.	32°11'	
----------	------	--------	--

3 +97.73	P.I.		22°38'
----------	------	--	--------

0 +38.4	P.O.T.		
---------	--------	--	--

0 +00 = So. End 20" Vit Sewer

7-31-44

2

ctr. of M.H.

ctr. of M.H.

Cott. 28.76' 16.50' 24" Willow
Bolt Spike 21.23' 30" Willow

Sta.	Point	Δ Lt.	Δ Rt.
------	-------	--------------	--------------

24+93.73	P.O.T.		
----------	--------	--	--

23+03.64	P.I.	$3^{\circ}23'$	
----------	------	----------------	--

16+87.55	P.I.		$12^{\circ}10\frac{1}{2}'$
----------	------	--	----------------------------

11+34.95	P.O.T.		
----------	--------	--	--

10+92.4	P.I.	$9^{\circ}09'$	
---------	------	----------------	--

3

Q.R.F. Xing sign Post

52' 04" =

-44.98'-0 T.P.

10/10

N.E. Cor.

Spec. 5

90° 58'

1068.92

M.H.

80.25 - 0 P.P.

43.12

93634.

6 P.P.

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

43+72.75	P.I.	90°58'	
----------	------	--------	--

37+73.87	P.O.T.		
----------	--------	--	--

36+76.15	P.O.T.		
----------	--------	--	--

30+40.35	P.I.	48°46'	
----------	------	--------	--

3-3-44

4

Track.

90°58'



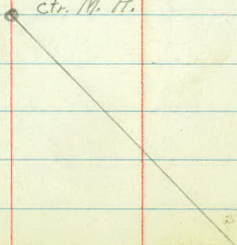
Transfer

• E and End Sewer

• E spur track

Minn.

• ctr. M. H.



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

52+57.15	P.I.		$19^{\circ}33'$
----------	------	--	-----------------

51+03.45	P.I.		$31^{\circ}21'$
----------	------	--	-----------------

49+26.73	P.I.		$31^{\circ}59'$
----------	------	--	-----------------

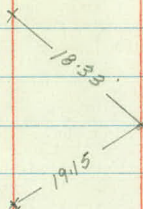
47+76.33	P.I.	$3^{\circ}26'$	
----------	------	----------------	--

44+39.05	P.I.		$12^{\circ}05'$
----------	------	--	-----------------

44+13.50	P.O.T.	= $\frac{1}{2}$ Minn. Transfer Track.	
----------	--------	---------------------------------------	--

8-4-44

5



Sta Point ΔLt ΔRt

54+99.60 P.I. $15^{\circ}17\frac{1}{2}'$

53+37.15 P.I. $11^{\circ}16\frac{1}{2}'$

8-4-44

6.

ctr. Sec. 32



$\frac{1}{4}$ Cor.

Mont.

$53^{\circ}49'$

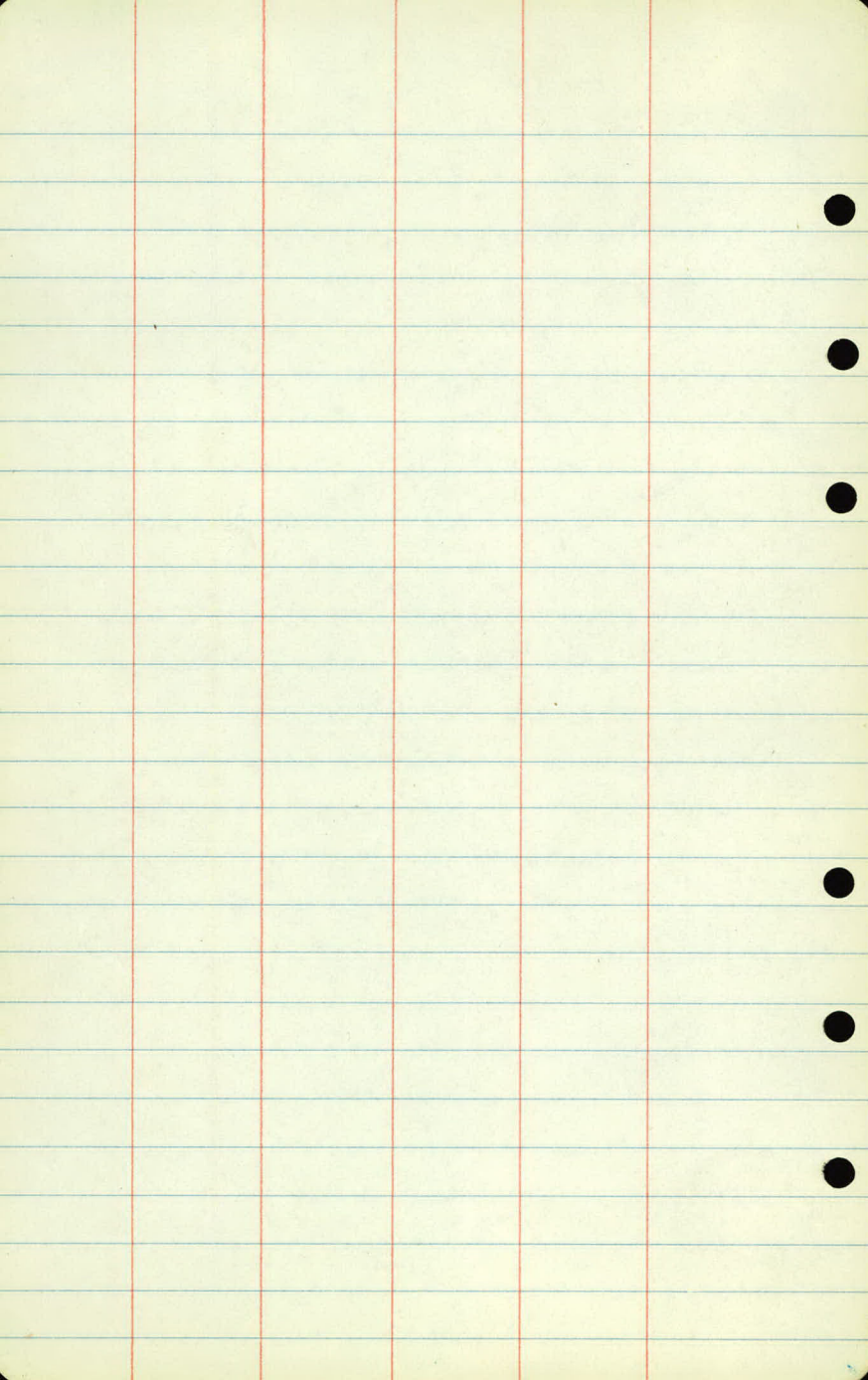
$40022\frac{1}{2}'$

$186^{\circ}57'$

Gate Post

$41.67'$

$3587'$



Topography

+97-Range Tie 2
+89-Cor. Ho-56'

+37-Gas Pump-14'
+05-Range Tie 3
+02 N.E. Cor. Shed-17'

4

+27-4" Elm-15'

+26-Cesspool-1' +91-Hand ditch X 2

+17-Cor. Ho-59'

3

+97-Range Tie

+84-Cor. Cor.-28'

+76-Range Tie

2

1

ditch-80'

+32-2 8' Wide Rd. +31-24' Willow-16'

+29-End Culv-41'

+15-8' Trunk Willow-10'

+02-End 1/2 Culv-25'

+15-Edge Water

0+00

Ent.

23.5' 27'

7-31-44

8

Ent.

15' 24'

15' 34' 11' 19'

2.5'

50'

3' Dia. - Conc. Culv. on end

8' 18'

See stad notes for outline of water.

Culv.

4 Bottom ditch 225' long

12" X 34" Vitr. Culv.

2' H.V. 2' W. walls

For out line of Wilson Lake see studio notes of 1944 Cleveland Ave. Plan Survey.

Ditch

+50-Edge Bl. Top

+21-Edge Bl. Top

11

+91-Fc. XSE

10

+38-Fc. Cor. -88'

9

+95-Fc. XSE

8

+60-Beg. Wood Fc. -41'

+43-Fc. XSE

7 Range Tie to Ho.

+83-Cor. Ho. -33'

+67-Cor. Chick. Ho. -6'

+53-Cor. Chick. Ho. -8'

6

+10 S.E. Cor. Shed. -20'

+87-Range Tie R

+85-S.E. Cor. Shed. -5'

~~+58-Fc. Cor. -2'~~

+49-Beg. Wood Fc. -60'

+38-Cor. Gar. -6'

+37-Cor. Shed. -1.5'

+58-Fc. XSE

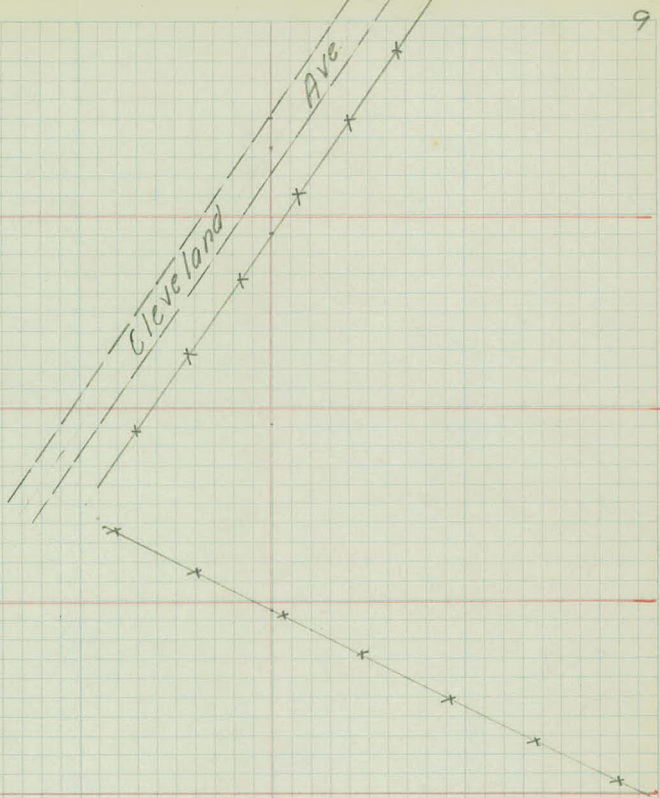
+22-Cor. Shed. -00'

+17-Cor. Hotbed -4'

+04-Cor. Hotbed -4'

5

+16-Cor. Gar. -2'



38
1-S-F

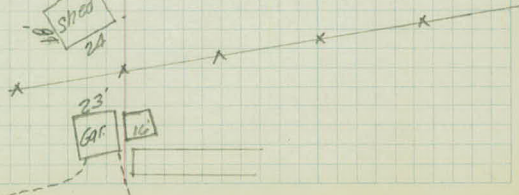
22' 14'

24' 18'
Shed

24' Shed

23' GAR

16'



+95-Fe. Xs 2

+50-Fe-67'

18

17

Fe-30'

+87.55-M.H.-00

+60-Fe. Xs 2.

16

15

14

+25-Fe Xs 2

+13-2 1/2' Conc Work Xs 2

Fe-27'

+60-3" Apple Tr.-10'

+44-3" Apple Tree-4'

+33-3" Pop-7'

+26-S.W. Cor Ho.-25'

13

+59-Fe Xs 2

+47-Ent Xs 2

+25-Fe Cor-36'

12

4' Bottom ditch
over sewer }

Top M.H. gone.
Wall level with ditch

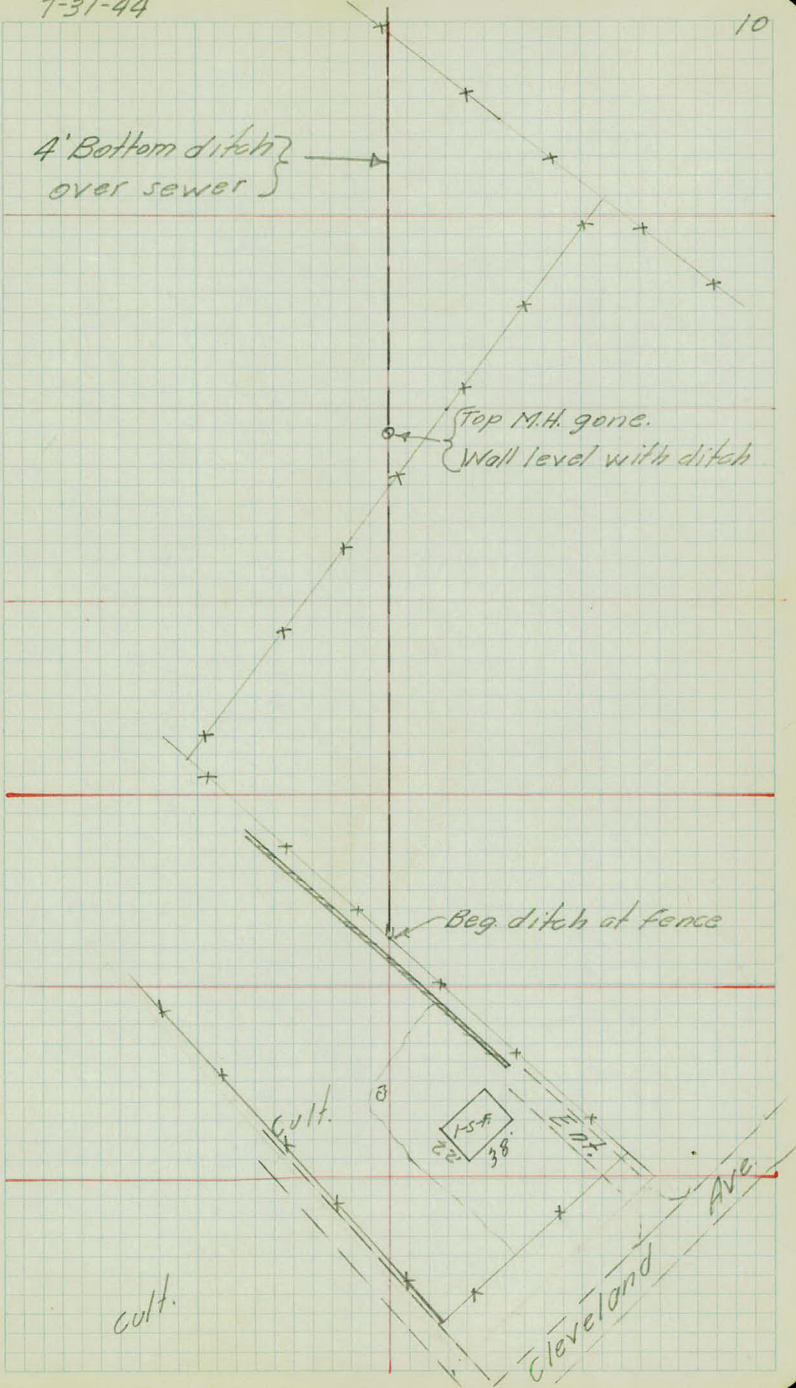
Beg. ditch at fence

Cult.

15 ft
38'

Cult.

Cleveland Ave.



25

+25-Fe-XSE
+02-Edge Block Top

+80-Edge Bl. Top +86-T.P.-45'

+66-End 12" C.M.-4'

+27-N.E. Cor. Ho.-100'

+35-Fe. Cor.-30'

24

End ditch-00
+93-Fe-XSE

+45-Fe. XSE

23

Ditch-00

22 Fe.-32

+19-Fe. XSE

21

20

Ditch-00

+47-High Line XSE

+28-Tel Line XSE

+26-Trail XSE

+10-High Line XSE

+17-T.P.-25

19

3-1-44

11

C.O.

Check for Tel. Cable
along "D".

12" x 36" C.M.

12d.

"D"

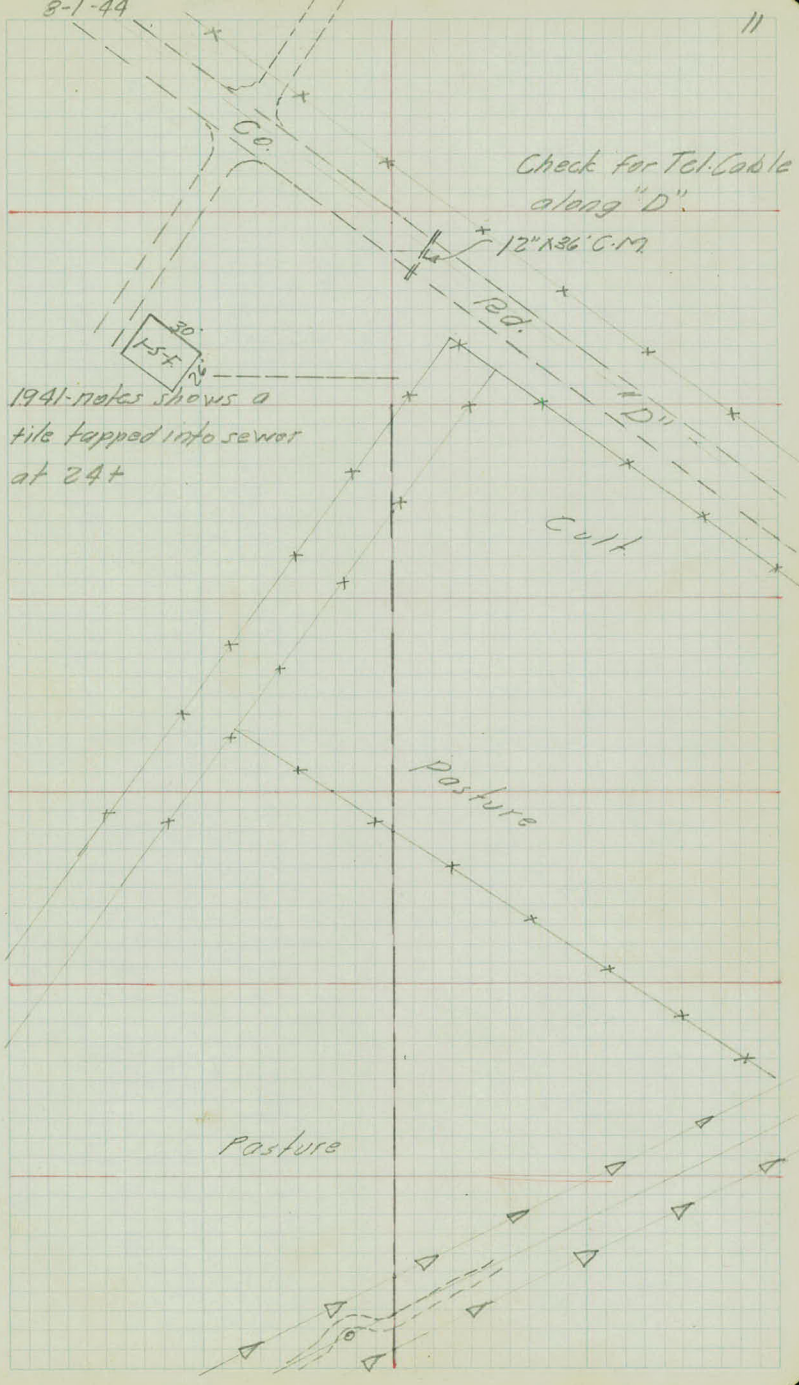
Cult

Pasture

Pasture

1941 notes shows a
tile tapped into sewer
at 24+

30.
1st.
26



+92-Fc. Cor - 6'-40'

+65-T.P.-7'

+49-Fc. Cor. - 6'-40'

32

Spur Track - 58'

31

Fc - 6'

+84-P.P.-7'

+4035 M.H.C.O

30

+45-Track X'E

29 +10-End Spur Track - 31.7'

+48-Cor. Chick. Ho. - 51'

+69-P.P.-23'

+24-Rongtjie to Bldg.

~~+54-Cor. Loading Dock - 58'~~

28

+90-N.E. Cor. Bldg. - 26'

+86-Track X'E

+81-Cor. Loading Dock - 12'

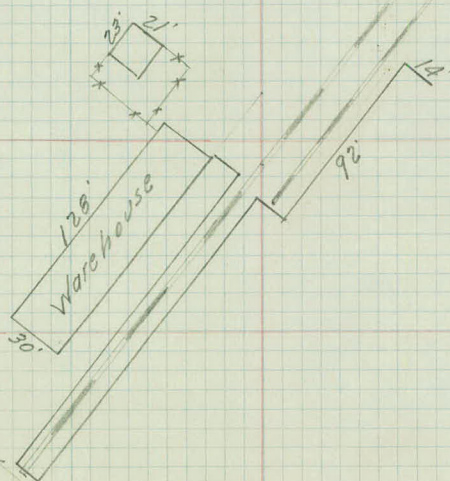
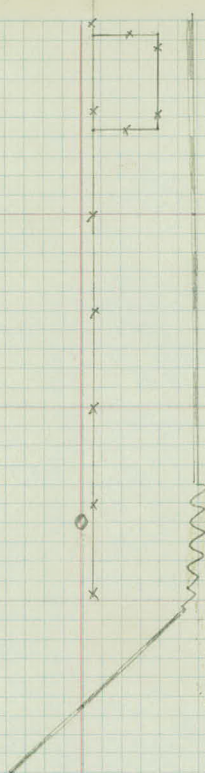
+66-End Spur Track - 7.3'

+69-Cor. Loading Dock - 4'

+57-Cor. Loading Dock - 11.3'

27

26



Fe.-1
+45-Switch Point-42'

+28-T.P.-3'

39

38

+72-T.P.-5'

+73-87-End Sewer & Beg. Open Ditch
1'x6' Conc. H.W.

37

+15-Fc Cor-8'

+76-15-Spur Track X & E

36

+04-T.P.-7'

+05-Fc Cor-27'

+02-Fc Cor-7'

+71-T.P.-9'

+73-Switch Point-24'

35

E-Spur Track-31' Fc-6'
Sta-Switch Point-41'

34

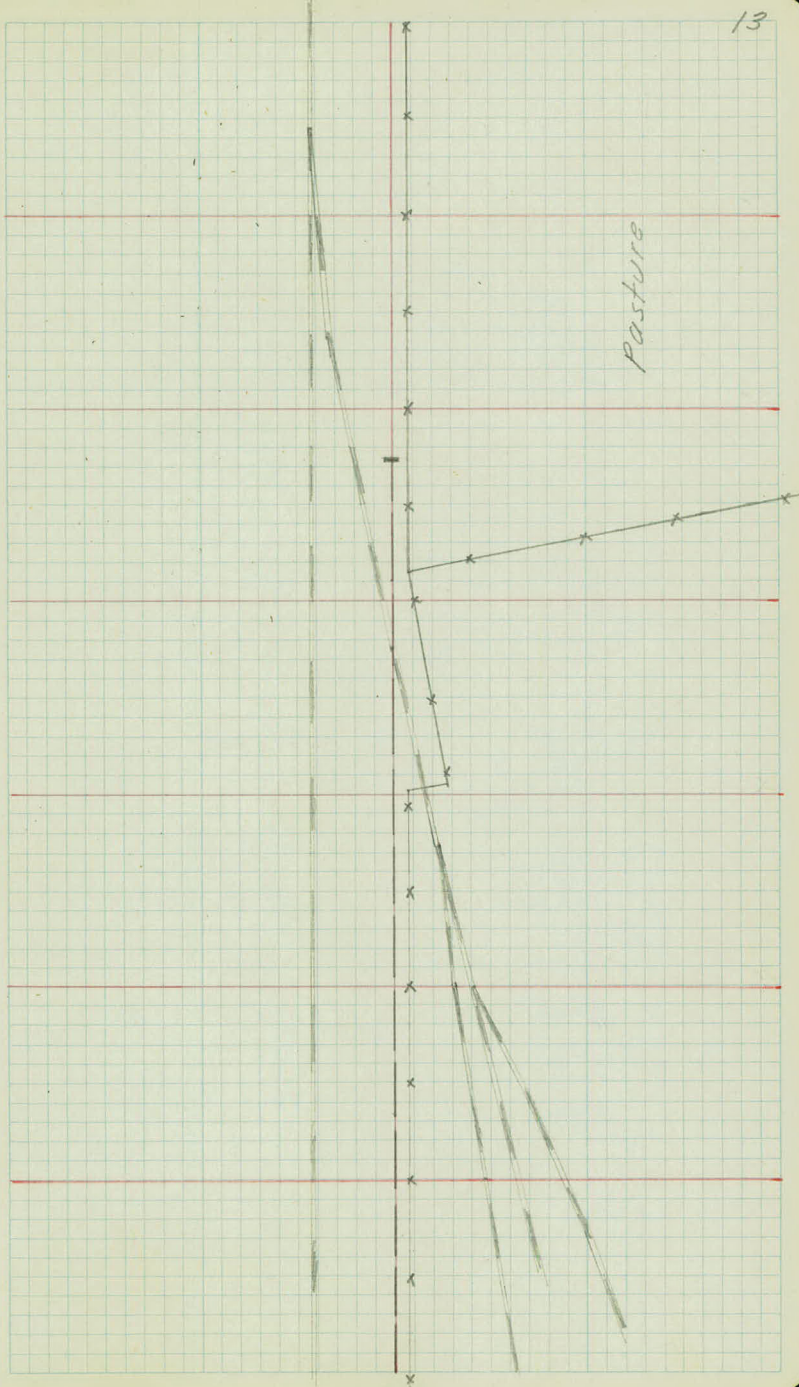
Spur Track-46' Fc-6'

+79-36" Coll-12'

+53-Stp-5'

33

Pasture



Ditch - 2' Rf

+88-18" Cott - 5'

+89-30" Cott - 7'

+55-90" Cott - 9'

+60-8" BE-5'

45 FE - 19'

+65-FE Cor - 3'

+36-End 24" Long. Culv.

44

+91-End 24" Long. Culv.

43

+20-T.P. - 4'

43'

FE - 9'

42

+95-SWAMP Enters Ditch

41 +09-T.P. - 6'

40

Pasture

Pasture

Pasture

Pasture

See stadia notes
for swamp loc.

157-Fe-2'

157-Ditch-2'

52

Ditch-2'

150-Ditch-0.0

51

104-Fe-10'

Ditch=0.0

50

Ditch-0.0

49

127-Ditch-3'

Ditch-0.0

48

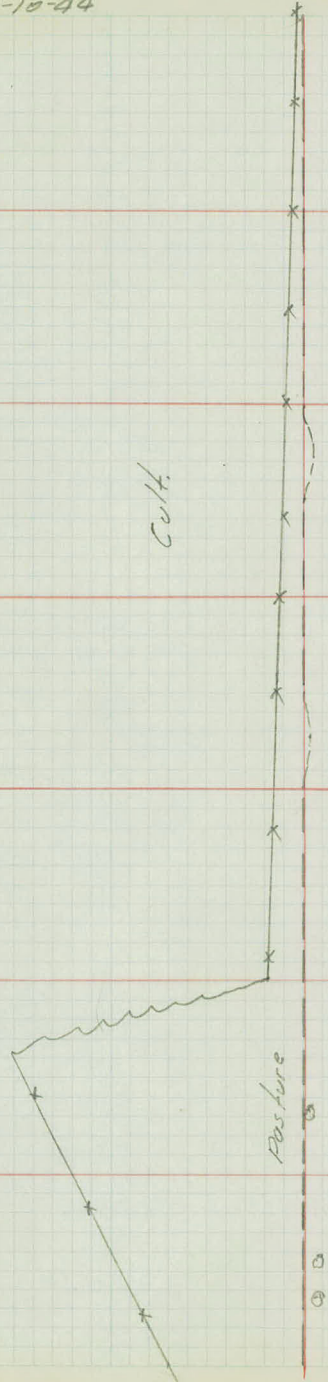
132-18" Tr Willow-3'

47

155-36" Coff.-7'

135-30" Coff.-8'

46



58

+89-15" Willow-6'

+76-15" Willow-8'

+60-15" Willow-00

+65-15" Willow-3'

+65-15" Willow-20'

+39-15" " -4'-2'

+36-12" Willow-4'

+24-24" Willow-4'

+15-12" Willow-3'

57 Ditch - 27'

+80-Lake=00

+59-15" Willw-3' 12" Willow-1'

+50-Lake-50'

Lake=50'

+44-Δ in ditch 0-17' +47-E + W. Fe. X 52.

56

55

+70-Fe. Cor-14'

+21-Fe. Cor-14'

54

+85-Fe. Cor-28-14'

+94-Oil drum culv-3'

+842 Conc. Box Culv. with no bottom

+70-3 Walls + Top are in poor cond.

Culv approx 3' wide

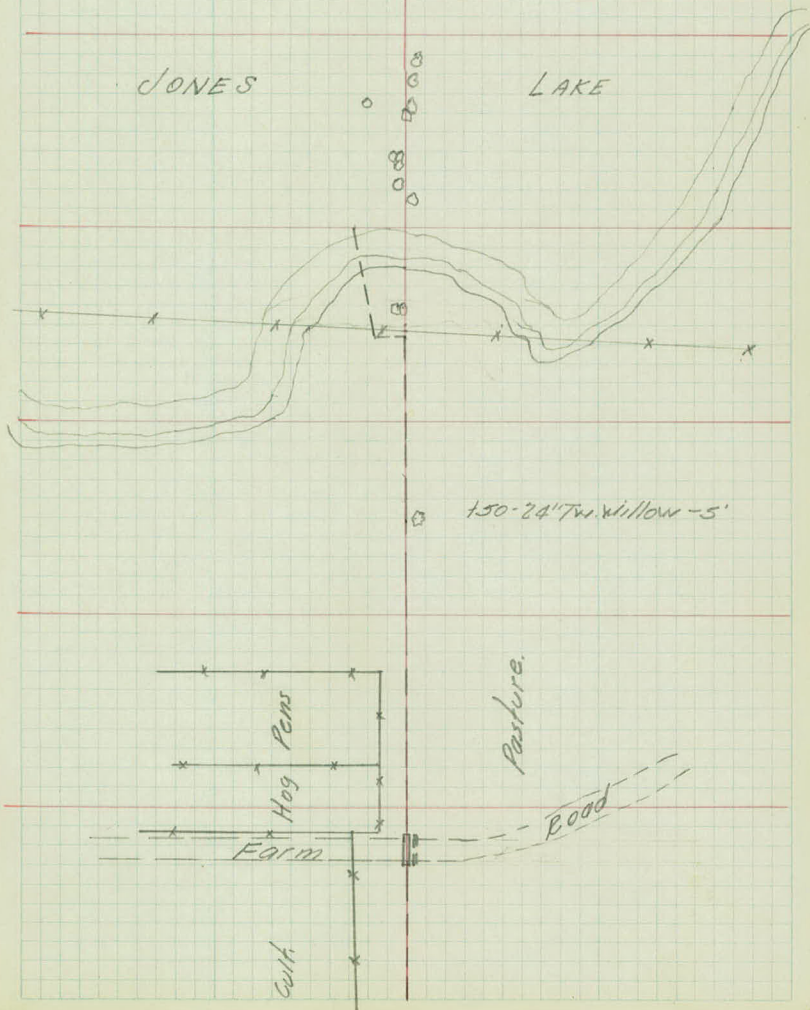
+70-Oil drum culv-3'

53

Ditch-00

8-10-14

16





Stadia

Sta	Azimuth	Dist	Red.	Elev
3+97.73	0°00'	= Sta. 0+00		

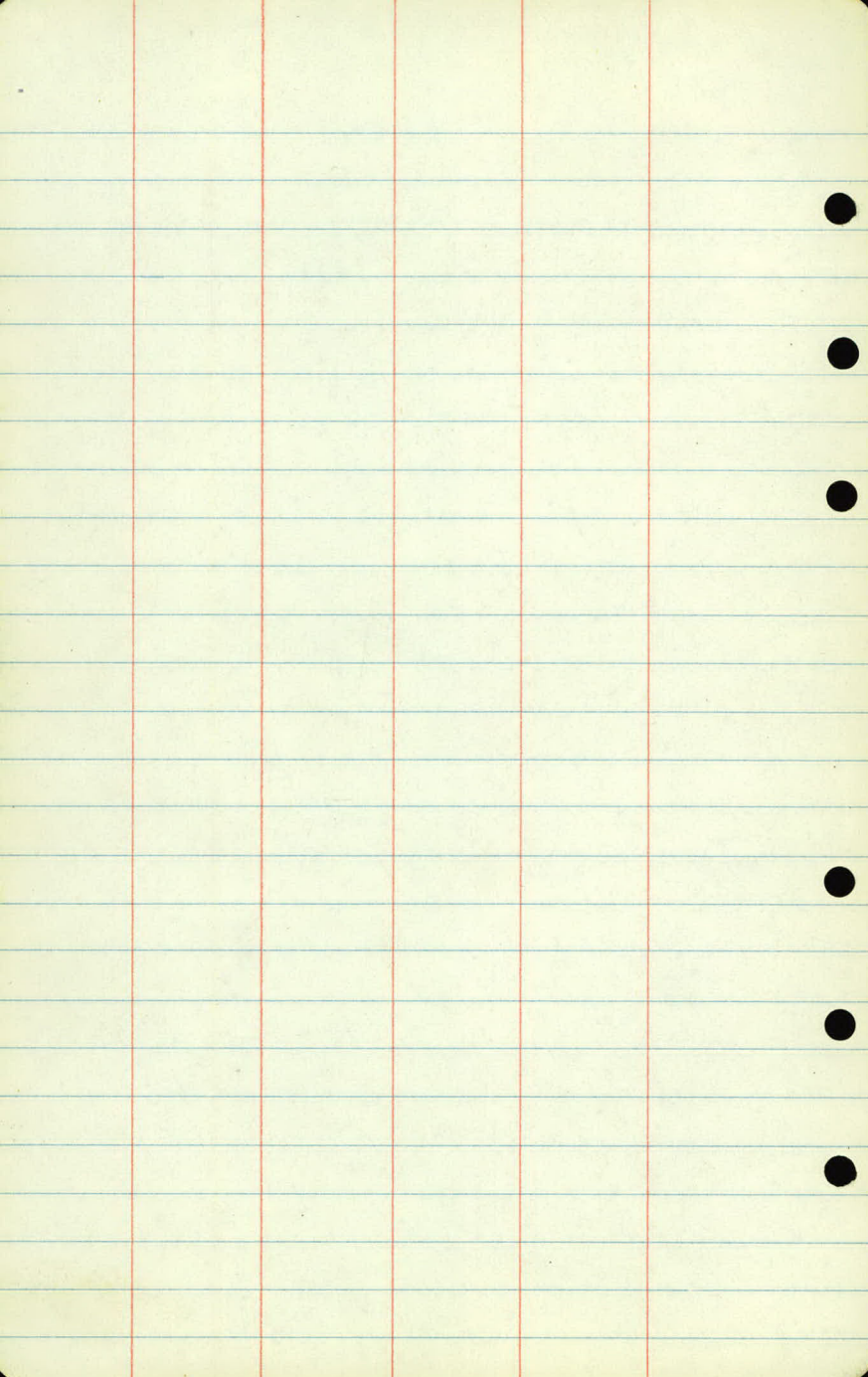
Edge water	322°15'	.83		
"	342°15'	1.32		
"	295°30'	1.26		
"	346°30'	2.02		
"	275°15'	1.95		
"	265°	2.62		
"	355°-15'	2.65		
"	263°-30'	3.30		
"	0°-45'	3.30		
"	236°-30'	4.27		
"	352°-15'	3.80		
"	268°-30'	4.80		
"	273°-0°	5.30		
"	345°-15'	4.15		
"	278°-45'	5.20		
"	336°-15'	3.40		
"	287°-30'	4.85		
"	295°-30'	3.84		
"	319°-0°	3.45		
"	304°-45'	3.45		

8-5-44

18

Sta	Azimuth	Dist	Red	Elev.
At 44+145 South along Tract	0°00'			
Edge Swamp	343°-30'	2.25		
"	341°-45'	3.04		
"	333°-30'	2.12		
	342°-	3.65		
	319°-30'	2.90		
	335°-	4.30		
	323°-	3.70		
	330°-	4.45		
	325°-	4.35		
	326°-	5.05		
	312°-30'	5.30		
	328°-30'	5.70		
	320°-	5.60		
	330°-	6.10		
	311°-30'	6.50		
	331°-	6.70		
	330°-30'	7.50		
	331°-30'	8.20		
	332°-30'	9.20		
	331°-	10.40		
	330°-	11.50		

Swamp circles to South and East.



Profile Levels

Xsections

Sta.	+	π	-	Elev.
B.M.	1.85	912.53		(910.68)

0	+00		16.44	96.09 . .
---	-----	--	-------	-----------

Top Ground at culv.

0	+00		13.08	99.45 . .
---	-----	--	-------	-----------

	+02		14.1	98.4 . .
--	-----	--	------	----------

	+04		10.9	01.6 . .
--	-----	--	------	----------

	+15		8.6	03.9 . .
--	-----	--	-----	----------

	+21		8.5	04.0 . .
--	-----	--	-----	----------

	+30		4.7	07.8 . .
--	-----	--	-----	----------

	+42		4.3	08.2 . .
--	-----	--	-----	----------

7-31-44

20

Lt

d

Rt.

Top S.W. Cor. Bottom Step of H. Rt 140465 Cleveland Ave.

Flow line 20" Vit Sewer

Top H.W.

F.L. 12" Culv. 25' Rt.

Sta	+	π	-	Elev
		912.53 ✓		
0	+51		9.1	903.4 .
	+60		9.8	02.7 .
1			9.5	03.0 .
	+19		8.8	03.7 .
	+55		8.3	04.2 .
2			7.4	05.1 .
	+27		7.3	05.2 .
T.P.	7.55	912.10 ✓	7.98	904.55 ✓
	+70		8.0	04.1 .

14.

4

24.

Sta	+	π 91210 [✓]	-	Elev
3			7.9	04.2.
+26				
+38			7.2	04.9.
+41			10.0	02.1.
+43 E ditch			10.2	01.9.
+67			11.1	01.0.
+72			8.6	03.5.
+79			7.4	04.7.

Lt.

E

Et.

Top Gesspool 6.0
1

6.0

9.6	100
25	50

Sta.	+	π	-	Elev.
		912.10 ✓		
		TOP =	7.07	905.03
3	+97.73	M.H. Flow line =	16.25	895.85
	Top dirt in M.H.		14.40	897.70
4			7.4	904.7
	+25		6.2	05.9
	+35		5.5	06.6
	+70		5.0	07.1
5			4.9	07.2
	+20		4.7	07.4
T.P.	1.20	909.62	3.68	908.42
	+37		2.6	07.0

L_h

E

P_h

Sta	+	π	-	Elev.
		909.62 [✓]		
5	+60		3.2	906.4 [•]
6			4.3	05.3 [•]
	+50		5.3	04.3 [•]
7			5.6	04.0 [•]
	+20		5.9	03.7 [•]
		Top	5.51	904.11
+21.22 M.H.		Flow line	14.10	895.52
Top Dirt in M.H.			11.95	897.67
	+23		5.9	903.7 [•]
	+55		6.5	03.1 [•]

4

4

4

Sta	+	π ✓	-	Elev.
		909.62		

8			6.8	902.8.
---	--	--	-----	--------

+30			6.8	02.8.
-----	--	--	-----	-------

+60			6.9	02.7.
-----	--	--	-----	-------

+93			6.7	02.9.
-----	--	--	-----	-------

9			7.3	02.3.
---	--	--	-----	-------

+25			7.4	02.2.
-----	--	--	-----	-------

+46			7.7	01.9.
-----	--	--	-----	-------

+49			9.6	00.0.
-----	--	--	-----	-------

Lt

E

Bt

Sta	+	π ✓	-	Elev
		912.53		
11	+10		6.3	06.2
	+17		5.1	07.4
	+34.9		4.9	07.6
B.M.	2.76	✓ 908.26	7.05	905.48
				(905.50)
	+49		0.8	07.5
	+55		1.3	07.0
	+62		2.8	05.5
	+70		5.1	03.2
	+82		5.8	02.5

7-31-44

27

Lt.

&

Rt.

Top S.E. Cor. Bottom step of Ho. Lt. 152+90

Sta.	+	π ✓ 908.26.	-	Elev
12			5.9	902.4.
+25			6.5	01.8.
+35			6.3	02.0.
+38			5.1	03.2.
+53			5.4	02.9.
+57			6.4	01.9.
+59			5.3	03.0.
13			5.5	02.8.

8-1-44

28

Lt.

£

Rt.

Sta.	+	π $\checkmark$ 908.26	-	Elev.
13	+35		5.4	902.9
	+50		4.0	04.3
	+72		4.3	04.0
14			4.0	04.3
	+18		4.0	04.3
	+25		4.6	03.7
	+35			02.4
	+65			02.2

L.f.

L

R.f.

4.0	4.4	5.6	5.9	5.9	4.0	5.2	5.4
25	10	3		4	10	14	25

4.6	4.5	5.6	6.1	5.5	4.9	5.3	5.1
25	8	3		4	6	18	25

Sta	+	π	-	Elev
		90826		901.9.
15				
T.P.	7.00	910.00	5.26	903.00.
+33				02.8.
+47				04.0.
+74				03.5.
16				02.7.
+30				02.9.
+65				03.0.
+84				02.0.

LH

E

RH

34 40 6.1 6.4 6.2 43 45
25 9 3 3 10 25

39 50 56 6.7 7.2 6.9 5.7 5.3 5.8 6.4
50 8 5 3 1 4 9 14 25

29 40 5.9 6.0 6.0 5.0 4.7 5.5 6.1
25 10 5 2 7 11 14 25

3.9 4.5 5.8 6.8 6.5 6.0 5.1 5.7
25 14 6 2 3 13 25

4.2 4.5 4.0 4.8 6.4 7.1 7.3 4.9 5.0 4.9
25 15 11 7 6 4 6 15 25

5.1 5.3 4.8 5.5 6.8 7.4 7.1 7.1 6.2 5.0 4.8 5.2
25 15 11 7 6 3 1 2 6 15 25

4.9 5.0 7.4 8.1 7.0 6.0 5.6 5.6
25 10 4 4 4 11 25

4.9 5.2 4.9 7.5 8.0 7.5 5.6 4.9 5.4
25 18 10 2 2 8 12 25

Sta.	+	π 910.00 ✓	-	Elev
16	+87.55	M.H. Flow line	14.6	895.4 .
		Ground in M.H.	13.1	896.9 .
17				901.6 .
	+50			03.2 .
18				02.6 .
	+50			02.7 .
19				02.6 .
	+50			02.3 .

LH

2

PH

56 50 55 7.4 8.3 8.4 7.1 5.0 5.3
25 10 7 5 4 2 7 25

6.0 5.7 4.9 6.7 7.5 6.8 6.1 4.5 4.0 3.7
25 17 9 2 1 2 7 15 25

5.4 6.3 6.7 8.1 7.4 5.1 4.5 5.1 4.6
25 9 5 2 4 10 14 25

6.0 5.2 6.0 7.7 7.3 6.3 5.4 5.2 5.8 5.1
25 10 5 3 3 6 9 14 25

6.3 6.1 7.4 7.4 7.4 6.1 5.5 5.2
25 5 3 1 4 7 25

6.5 6.5 5.8 6.4 7.6 7.7 7.4 5.3 5.0 5.9 5.2
25 17 14 8 5 2 7 11 16 25

Sta.	+	π	-	Elev.
		910.00 ✓		

20				902.1
----	--	--	--	-------

+50				02.3
-----	--	--	--	------

21				02.0 ✓
I.P.	9.62	912.84 ✓	6.78	903.22 ✓

+50				02.3
-----	--	--	--	------

22				02.0
----	--	--	--	------

+50				04.2
-----	--	--	--	------

23				05.3
----	--	--	--	------

+50				06.0
-----	--	--	--	------

Lt

E

Rt

6.5 6.1 6.0 6.0 6.2 7.8 7.9 7.6 5.5 5.4 6.2 6.0
 25 14 11 9 6 3 2 6 11 14 25

6.0 6.0 5.5 6.0 7.8 7.7 7.7 5.6 5.3 6.4 6.5
 25 15 13 8 4 2 8 11 17 25

6.4 6.2 5.5 6.1 7.3 7.4 8.0 7.4 6.9 6.1 5.4 6.8 6.3
 25 16 11 8 3 1 1 5 7 14 17 25

8.9 8.9 8.9 8.8 9.4 9.6 10.1 10.5 10.1 8.5 8.2 8.4 9.1 9.3
 25 16 10 7 5 4 3 3 7 10 14 17 25

7.8 7.7 7.2 7.7 9.7 10.8 9.8 8.9 7.9 9.0 8.7
 25 13 9 6 2 1 3 8 14 25

6.7 6.0 7.0 8.1 8.6 8.3 7.7 6.9 7.2
 25 15 6 2 8 9 13 25

5.9 5.6 6.2 7.4 7.5 7.5 6.6 5.6 5.5
 25 19 12 4 3 6 10 25

4.9 5.4 6.8 6.4 5.5 4.8 4.1
 25 9 3 6 8 25

Sta.	+	π ✓ 912.84	-	Elev.
24			5.9	906.9.
+12			5.7	07.1.
+35			5.7	07.1.
+58			5.7	07.1.
+66	Flowline 12" C.M.			07.7.
+70			5.1	07.7.
+75			3.1	09.7.
+80			2.7	10.1.

8-1-44

33

LT

Q

PL

51
4

Sta.	+	π ✓ -	Elev.
		912.84 •	
24 +92.73		2.5 ✓	910.3 •
I.P.	3.05	913.42 •	2.47 ✓ 910.37 •
25		3.2	10.2 •
+0			
+08		3.5	09.9 •
+15			
+15		5.3	08.1 •
+25		5.4	08.0 •
+32		3.7	09.1 •
+50		3.4	10.0 •
26		4.0	09.4 •

83-44

34

lt.

£

pt.

£ 193.73

Sta	+	π ✓	-	Elev.
		913.42		
26 + 50			4.1	909.3
27			4.0	09.4
+ 35			4.8	08.6
+ 67			4.7	08.7
+ 67			8.0	05.4
+ 90	Top W. Rail		7.86	905.56
28			7.7	05.7
+ 50			8.3	05.1

Lt

4

Pt

Sta.	+	π ✓	-	Elev
		913.42		
29			9.1	904.3
	+50		9.6	03.8
30			9.9	03.5
+40.35	Top M.H.		9.57	903.85
+40.35	F.I. M.H.		18.88	894.64
	Ground in M.H.		17.6	895.8
	+60		11.4	02.0
31			10.5	02.9

Lt

Q

Rt

Sta	+	π ✓	-	Elev
		913.42		

31	+50		10.9	902.5
----	-----	--	------	-------

32			10.7	02.7
----	--	--	------	------

T. P.	5.43	909.35	9.50	903.92
-------	------	--------	------	--------

	+50		7.0	02.4
--	-----	--	-----	------

33			7.4	02.0
----	--	--	-----	------

	+50		7.4	02.0
--	-----	--	-----	------

34			7.9	01.5
----	--	--	-----	------

	+50		9.0	00.4
--	-----	--	-----	------

35			10.0	899.4
----	--	--	------	-------

24

E

11

Sta	+	π ✓ 909.35	-	Elev.
35 +50			9.7	899.7
36			8.8	900.6
+21			6.9	02.5
+45			5.9	03.5
+65	Top W. Rail on spur.		5.01	904.34
37			5.2	04.2
+23			5.9	04.0
+45			6.2	03.2

lt.

t

et

Sta	+	π ✓	-	Elev
		909.62		

9	+57		9.6	900.0
---	-----	--	-----	-------

	+62		8.3	01.3
--	-----	--	-----	------

	+80		7.4	02.2
--	-----	--	-----	------

I.P.	9.47	✓ 912.53	6.56	903.06
------	------	-------------	------	--------

10			10.9	01.6
----	--	--	------	------

	+35		10.1	02.4
--	-----	--	------	------

	+62		10.0	02.5
--	-----	--	------	------

	+90		10.3	02.2
--	-----	--	------	------

11	+01		9.4	03.1
----	-----	--	-----	------

Lt.

£

Pt.

Sta	+	π		Elev.
		909.35	✓	
37+63			✓ 8.2	901.2
B.M.	9.56	907.22	11.69	897.66 ✓

+73.87				897.66
--------	--	--	--	--------

+73.87	FL. 24" Sewer =	12.42		894.80
--------	-----------------	-------	--	--------

38				897.7
----	--	--	--	-------

+50				97.3
-----	--	--	--	------

39				95.2
----	--	--	--	------

I.P.	10.57	907.80	7.99	899.23 ✓
------	-------	--------	------	----------

8-3-44

39

Lt.

±

Rt.

Top and E North End H.W. of End of Sewer 377387

1.6	2.2	2.3	6.4	9.4	9.5	6	9.5	5.9
19.5	19.5	13	6	2			2	8

Top Rail

1.6	2.2	2.3	6.4	9.4	9.6	12.0	12.4	12.1	8.9	5.9	5.0	5.8	5.8
19.5	19.5	13	6	2	1	1		2	2	8	10	17	25

Top Rail

13.6	1.9	1.9	2.9	7.1	9.4	12.2	12.2	9.4	9.5	5.2	4.4	4.4	5.5	6.5
24.5	24.5	18	14	6	3	3	14	14		6	10	14	19	25

4.3	6.3	10.4	11.6	11.5	9.9	9.9	5.9	5.3	5.6	6.0
12	7	28	2.8	0.5	0.5		7	11	15	25

4.8	1.8	1.3	0.55	-Top Rail
20	25	30	32.3	

54.8	3	9.9	10.2	12.0
10	5	3	1	1

12.0	11.9	10.2	5.7	5.3	5.5	6.0
	1	1	7	11	19	25

4.2	3.9	1.2	0.43	-Top rail
19	26	34	39.6	

Sta	+	π ✓	-	Elev.
-----	---	---------	---	-------

909.80

39 732

895.1 .

+50

95.0 .

40

95.1 .

+50

94.9 .

41

95.0 .

L+

£

Rt.

9.0	8.7	13.2	12.7	14.7	14.7	14.7	12.3	12.7	11.0	9.1	9.6
20	12	1.5	0.5	0.5		1.0	1.0	2.0	5	11	25

7.5	4.0	3.7	2.94 = Top Rail
25	30	37	39

(2.92)	37	41	10.4	10.4	8.9	8.9	14.4	14.8	14.3	12.2	10.2	9.2	10.0
39	37	30	19	17	12	8	13		1.5	3.5	7	12	25

Top Rail

(2.81)	3.5	4.3	9.6	11.5	10.7	14.2	14.7	14.4	13.0	10.8	11.5
40.3	39	32	23	16	6	10		2	3	7	25

Top Rail

4.1	10.8	12.3	12.7	11.7	11.9	14.7	14.9	14.7	13.3	12.0	11.2	12.4	12.5
32	23	17	14	11	5	10		2	4	7	13	17	25

3.5	2.73 = Top Rail
39	40.3

12.0	11.7	11.8	11.8	12.5	14.4	14.8	14.6	12.4	12.1	13.1	13.2
20	14	11	7	4	1.5		2.5	5	15	18	25

4.3	3.5	2.70 = Top Rail
30	39	40

Stg

+

π

-

Elev

909.80

41 +50

95.2.

42

95.2.

+50

95.3.

43

95.3.

Lt.

±

Rt.

3.9 13.1 13.7 12.1 12.7 14.6 14.6 14.5 12.6 12.7
 31 18 13 9 2 13 5 7 25

3.2 2.58
 37 39

13.0 13.4 11.8 12.0 14.6 14.6 14.4 12.5 13.2
 17 14 11 5 1.5 35 7 25

3.5 3.0 2.41 = Top Rail
 32 37 38.5

13.1 13.1 12.2 12.3 14.3 14.5 14.3 12.1 12.4
 15 12 11 5 2 4 7 25

11.9 3.2 2.8 2.23
 18 31 37 38.7

13.5 11.9 11.9 12.7 14.2 14.5 14.5 11.5 11.8
 12 9 7 5 2 4 8 25

13.5 3.2 2.7 2.05 = Top Rail
 14 33 37 38.5

Sta	+	π ✓	-	Elev
		909.80		
43 +50				895.4 .
T.P.	1.48	✓ 909.03 .	2.25	✓ 907.55 .
+87				893.4 .
+91	Flow line 24" culv.	9.6		899.4 . 893.43
+90			10.7	898.3 .
+92			10.7	898.3 .
44 +01			3.2	905.8 .
+05			2.2	906.8 .

Lt.

L

Rt.

12.5	11.9	12.4	14.4	14.4	14.2	12.0	11.8
13	6	3	1		2.3	7	25

11.3	3.3	2.5	1.87
18	31	37	38.5

10.8	10.6	11.5	15.6	15.6	14.0	11.7	10.7	10.5	10.8
25	10	4	0.5		2	4	9	17	25

Sta.	+	π ✓	-	Elev
		909.03		

44+10		1.7	907.3	•
-------	--	-----	-------	---

Top Rail		1.02	908.01	• 3
----------	--	------	--------	-----

+18		1.7	07.3	•
-----	--	-----	------	---

+23		2.1	06.9	• 4
-----	--	-----	------	-----

+26		3.0	06.0	• 5
-----	--	-----	------	-----

+33.5		9.5	899.5	•
-------	--	-----	-------	---

+35		11.2	897.8	• 4
-----	--	------	-------	-----

+36 F.B. Culvert		15.6	893.43	• 11
------------------	--	------	--------	------

Lt.

±

Pt.

10.7	10.7	15.6	15.6	15.6	11.3	9.8	9.8	
25	6	1		1	4	8	25	✓

Sta	+	T	Elev
		90.9.23 ✓	
44 + 49			895.3 . 8
+ 64			95.4 . 9
45			95.6 . 10
+ 50			94.9 .
I.P.	305	904.27 ✓	7.81 901.22 .
46			895.3 .
+ 50			95.5 .
B.M.		5.44	898.83 . (10.15)
47			95.2 .
+ 50			95.0 .

Lt.

♀

Rt.

13.2 13.2 13.7 13.6 11.9 10.9 11.0 12.6 12.6 ✓
 25 5 3 5 12 16 21 25

11.9 11.7 10.5 11.5 13.6 13.9 11.9 11.0 10.6 12.6
 25 18 10 4 3 6 10 15 25 ✓

11.0 11.0 10.7 11.2 12.8 13.4 13.8 11.8 9.9 10.3 ✓
 25 18 12 11 1 3 5.5 11 25

11.1 10.2 12.0 13.4 14.1 14.1 11.6 9.3 9.6 9.6 ✓
 25 9 35 15 2 5 11 18 25

5.5 5.8 5.0 8.0 9.0 9.4 4.4 4.1 4.5 ✓
 25 17 9 3 3 12 17 25

5.6 5.3 7.0 8.8 8.9 7.3 4.5 4.3 ✓
 25 10 5 2 6 15 25

Spk. in 36" Coll. B.R. sta. 46+57

4.4 4.5 4.7 9.1 8.6 7.0 8.8 4.2 ✓
 25 13 8 3 5 12 25

23 22 27 68 81 93 93 90 71 68 33 31 ✓
 25 15 12 45 2 1 2 4 6 12 25

Sta.	+	π ✓	-	Elev.
		904.27		
48				895.0
				77.2
+50				94.9
49		✓		94.8
I.P.	8.71	905.94	7.04	897.23 ✓
+50				94.5
50				94.3
+50				94.1
+73				95.4
51				94.7 ✓

Lt

E

Rt

27 24 27 71 80 9.2 9.3 9.3 7.4 6.4 6.0 3.6 3.7 ✓
 25 16 12 6 2 2 1 2 8 10 15 25

31 30 39 8.1 8.9 9.4 9.4 7.6 6.5 3.5 2.6 1.9 ✓
 25 15 11 3 2 1 2 10 13 15 25

3.5 3.3 8.2 8.2 9.5 9.5 9.5 8.1 7.9 5.9 5.3 2.2 1.5 ✓
 25 12 4 1.5 0.5 1.3 2 5 7 9 13 25

4.4 4.8 6.1 8.8 9.9 11.2 11.4 11.4 10.3 9.6 7.1 4.7 3.3 ✓
 25 15 11 6 2 1 1 1.5 5 8 14 25

4.0 4.8 5.8 9.6 11.6 11.6 11.6 9.8 9.1 7.2 4.3 3.4 ✓
 25 14 9 3 1 0.5 2 5 8 15 25

3.8 4.4 5.4 10.0 11.8 11.8 11.8 10.9 8.6 4.8 3.2 ✓
 25 18 12 2 0.5 1 2 5 14 25

3.6 6.6 10.5 10.5 11.2 11.2 9.0 3.8 3.2 5.5 ✓
 25 6 2 4 7 12 21 25

4.2 5.6 7.2 11.2 11.2 10.9 7.3 5.7 5.2 ✓
 25 12 8 1.5 3 13 20 25

Sta.	+	π ✓	-	Elev.
		905.94		
51	+24			94.6
	+65			94.5
52				95.7
	+50			94.6
53		✓		94.3 ✓
T.P.	6.68	902.71 ✓	9.91	896.03 ✓
B.M.	2.42	902.31 ✓	2.82	899.89 ✓
	+37			94.3
	+70 of end of culv.			94.1
	+70 shoulder of road.			98.3

8-8-44

46

Lt.

E

Et.

4.4 4.2 8.0 11.3 11.3 11.3 10.4 9.8 8.5 7.5 5.5 4.9
 25 11 5 15 1 2 6 9 12 18 25

5.3 5.3 7.2 10.8 11.4 8.8 8.4 5.5 5.5
 25 13 9 4 4 5 13 25

✓

5.6 7.0 8.8 9.7 11.3 11.3 10.2 5.9 5.7 4.2 5.9
 25 13 9 5 3 0.5 9 13 16 26

✓

6.7 6.9 7.9 9.7 9.9 11.3 11.3 10.6 8.0 6.8 6.0
 25 11 8 5 3 4 4.5 8 12 25

✓

6.3 6.4 6.6 10.2 10.7 11.4 11.6 11.6 10.5 6.4 6.8 6.4
 25 18 14 7 3 2 1 2 10 17 25

✓

Top Mont.

3.3 3.5 6.4 6.8 7.9 8.0 8.0 6.9 5.1 4.0 3.7 4.1 3.5
 23 15 9 4 3 1 1.5 4 7 11 31 25

1.9 2.8 5.6 8.0 8.2 8.1 3.9 4.0
 25 15 6 2 2 9 25

7.4 = FL. oil down
 5 GULF

✓

1.9 4.0 4.1 4.0
 25 14 25

Sta	+	π	-	Elev.
		902.31 ✓		

53	+84	shoulder of road		898.2 ✓
----	-----	------------------	--	---------

	+84	at end of culv.		94.2
--	-----	-----------------	--	------

54				94.2
----	--	--	--	------

	+50			94.1
--	-----	--	--	------

55				94.0
----	--	--	--	------

	+50			94.1
--	-----	--	--	------

56				93.8
----	--	--	--	------

	+39			93.7
--	-----	--	--	------

Lt.

2

Dt.

24 41 41 44
25 10 25

22 28 56 61 80 81 79 41 41 43 7.3 Fl. oil drum
25 14 8 5 2 2 10 17 25 3 ✓ culv.

25 31 62 79 81 80 65 39 42
26 13 3 2 15 6 12 25 ✓

45 46 72 81 82 81 54 45 45
25 8 4 17 1 8 12 25 ✓

58 58 52 69 75 80 83 78 50 47
25 20 14 7 16 16 3 9 25 ✓

51 40 78 82 78 53 46
25 11 7 15 9 25 ✓

75 70 73 85 84 80 69 65
25 12 3 2 3 10 25 ✓

45 69 74 85 86 86 71 74
25 13 4 14 2 4 25

Sta.	+	π	-	Elev.
		902.31 ✓		

56 +44				893.5
--------	--	--	--	-------

+47				95.2
-----	--	--	--	------

+70				95.2
-----	--	--	--	------

+83				94.3
-----	--	--	--	------

57				93.8
----	--	--	--	------

+10				93.6
-----	--	--	--	------

+17				93.1
-----	--	--	--	------

+32				93.0
-----	--	--	--	------

Lt.

E

Et.

7.5 7.9 8.7 8.8 8.5 7.4 7.4 ✓
 25 19 17 2 6 25
 Δ

7.7 7.9 9.0 8.7 7.2 7.1 7.3
 25 22 19 16 14 25

7.6 7.7 8.7 8.8 7.6 7.8 7.1 8.0 7.7
 35 25 23 19 19 6 16 25

8.1 7.9 8.8 8.8 8.0 8.0 8.0 8.1 8.3
 37 28 26 21 20 10 13 25

8.0 8.0 8.9 8.8 7.9 8.2 8.5 L.O. ✓
 35 30 29 25 24 14

$\frac{8}{27}$

87

92

9.3

Sta.	+	π	-	Elev.
		902.31 ✓		

57	+50		9.5	92.8 . 82.8
----	-----	--	-----	----------------

	+75		9.3	93.0 .
--	-----	--	-----	--------

58			9.7	92.6 .
----	--	--	-----	--------

Elev. Jones Lake			8.75	893.56 .
------------------	--	--	------	----------

B.M.			2.42	899.89 ✓
------	--	--	------	----------

8-10-44

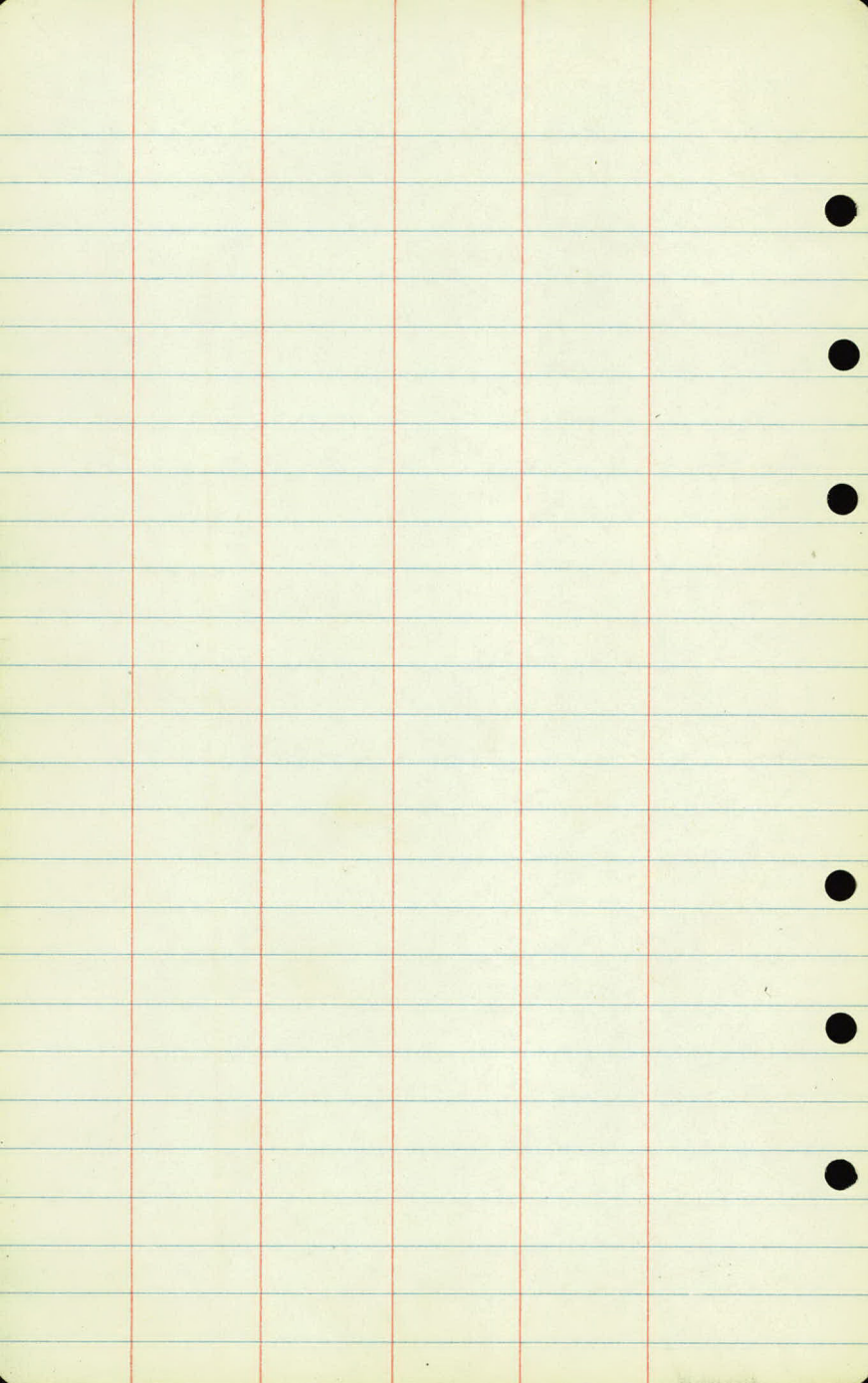
49

Lt.

9

Et.

Top Moot between Ctr. and E $\frac{1}{4}$ Cor Sec. 32



DITCH NO. 5

Profile Levels

Jones Lake to Co. Rd "E"

Sta	+	π	$\checkmark$	-	Elev.
B.M.	4.53	901.13			(896.60)

Elev. Jones Lake		7.68		93.45
------------------	--	------	--	-------

109		8.5		92.63
-----	--	-----	--	-------

+50		8.4		92.7
-----	--	-----	--	------

110		8.6		92.5
-----	--	-----	--	------

+50		9.0		92.1
-----	--	-----	--	------

111		8.6		92.5
-----	--	-----	--	------

+50		8.7		92.4
-----	--	-----	--	------

112		8.7		92.4
-----	--	-----	--	------

8-12-44

51

Description

Spt in 12" Tw Willow 10' Rt Str 109+30

Sta	t	T ✓	-	E/cv
		901.13		

112	+50		8.8	892.3
-----	-----	--	-----	-------

113			8.8	92.3
-----	--	--	-----	------

	+50		8.8	92.3
--	-----	--	-----	------

114			9.1	92.0
I.P.	12.19	910.98 ✓	2.34	898.79 ✓

	+67		19.3	91.7
--	-----	--	------	------

	+67		19.8	91.2
--	-----	--	------	------

115	+47		19.9	91.1
-----	-----	--	------	------

	+47		19.2	91.8
--	-----	--	------	------

Description

Ground at culv.

FL East end 30" C.M.

Long Lake Rd.

FL West End 30" C.M.

Ground at. culv.

Sta.	+	π ✓ 910.98	-	Elev.
115	+62		18.4	892.6
	+85		19.0	92.0
116			19.0	92.0
	+50		18.9	92.1
	+67		19.0	92.0
117			18.9	92.1
	+50		19.1	91.9
	+63		19.5	91.5

Description

Ground at end of culv.

Sta.	+	T ✓	-	Elev.
		910.98		
117 +63		✓	19.63	91.35 .
T.P.	513	899.83	16.28	894.70 ✓
118 +296			8.8	91.0 .
+296			8.6	91.2 .
+50			7.7	92.1 .
119			8.0	91.8 .
+50			8.3	91.5 .
120			8.3	91.5 .
+50			8.2	91.6 .

Description

FL. 36" Core Culv.

U.S. Highway No. 8

FL. 36" Core Culv.

Ground at culv.

Sta.	+	π ✓	-	Elev.
		899.83		
121			8.5	891.3
+57			9.0	90.8
+57			9.52	90.31
I.P.	633	900.63	5.53	894.30 ✓
122 + 46			10.42	90.21
+46			9.6	91.0
+75			9.5	91.1
123			9.3	91.3
+50			10.0	90.6

Description

Ground at End of Gully

End 39" E.R. Gully

End of 39" E.R. Gully

Ground at gully

Sta.	t	π ✓ -	Elev.
		900.63	

124		10.1	90.5
-----	--	------	------

t50		9.8	90.8
-----	--	-----	------

125		10.0	90.6
-----	--	------	------

t50		10.2	90.4
-----	--	------	------

126		10.2	90.4
-----	--	------	------

t50		10.2	90.4
-----	--	------	------

127		10.4	90.2
-----	--	------	------

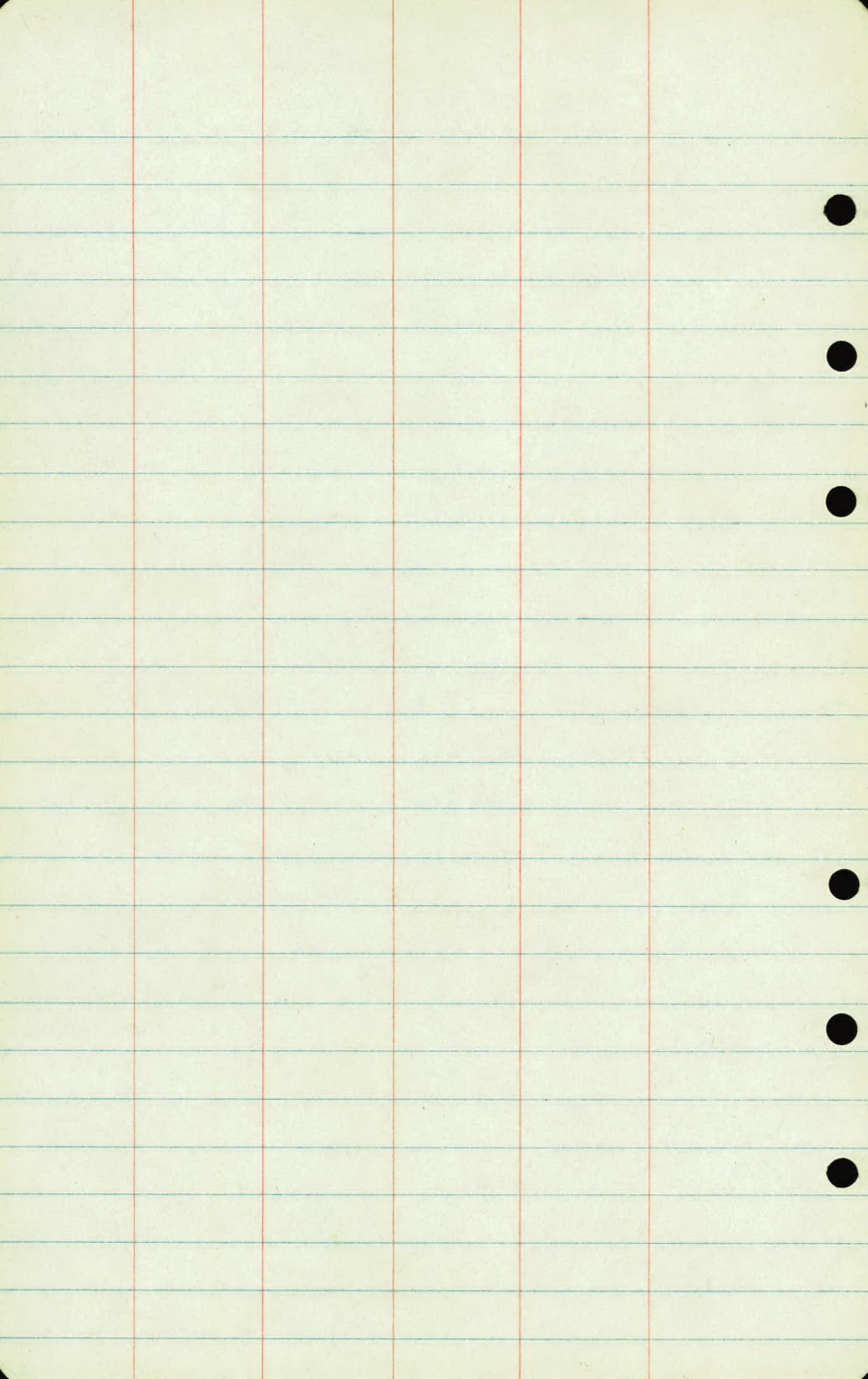
t50		10.2	90.4
-----	--	------	------

Description

Sta.	+	π	-	Elev.
		900.63		
128			10.4	90.2 .
+50			10.2	90.4 .
129			10.4	90.2 .
+46.84			10.6	90.0 .
B.M.			4.18	896.95 (896.52) .

Description

FL. South end 36" C.M. under Co. Rd "E" (colv. clean)
Spt 10 24" Tw. Gatt. 10' Lt. 124+91



Ditch No 5

Line Revision

Sta. 23+03.64 to Sta. 43+72.75

Sta	Point	ΔLt	ΔRt
-----	-------	-------------	-------------

44 +13.50	P.O.T. = E Track		
-----------	------------------	--	--

43 +72.75	} Equal P.O.T.		
42 +32.47 =			

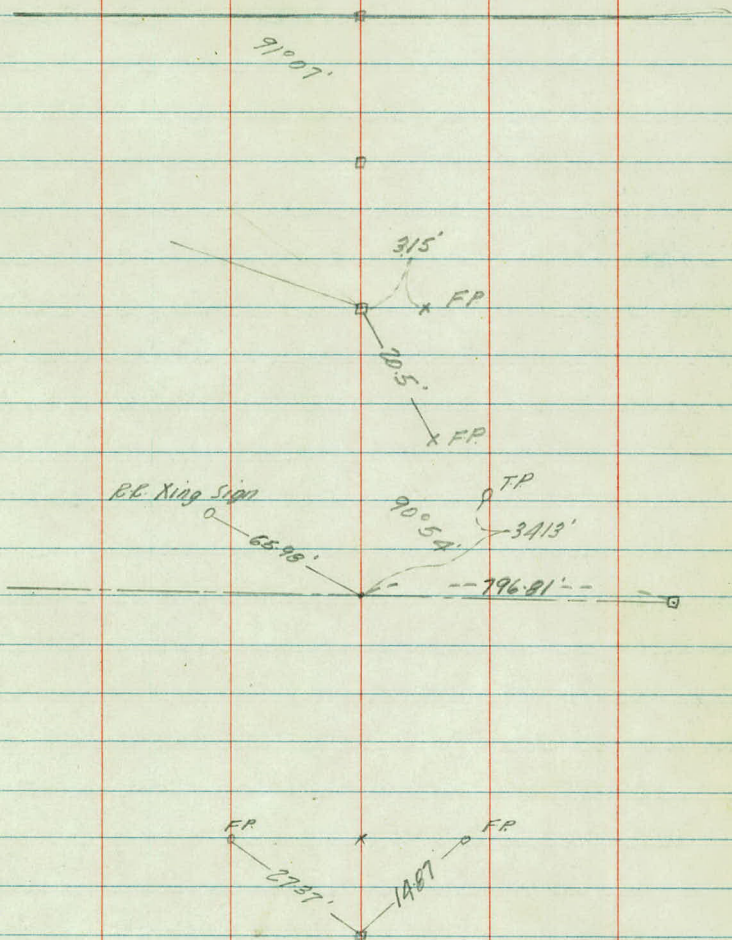
42 +27.95	P.L.	77°02'	
-----------	------	--------	--

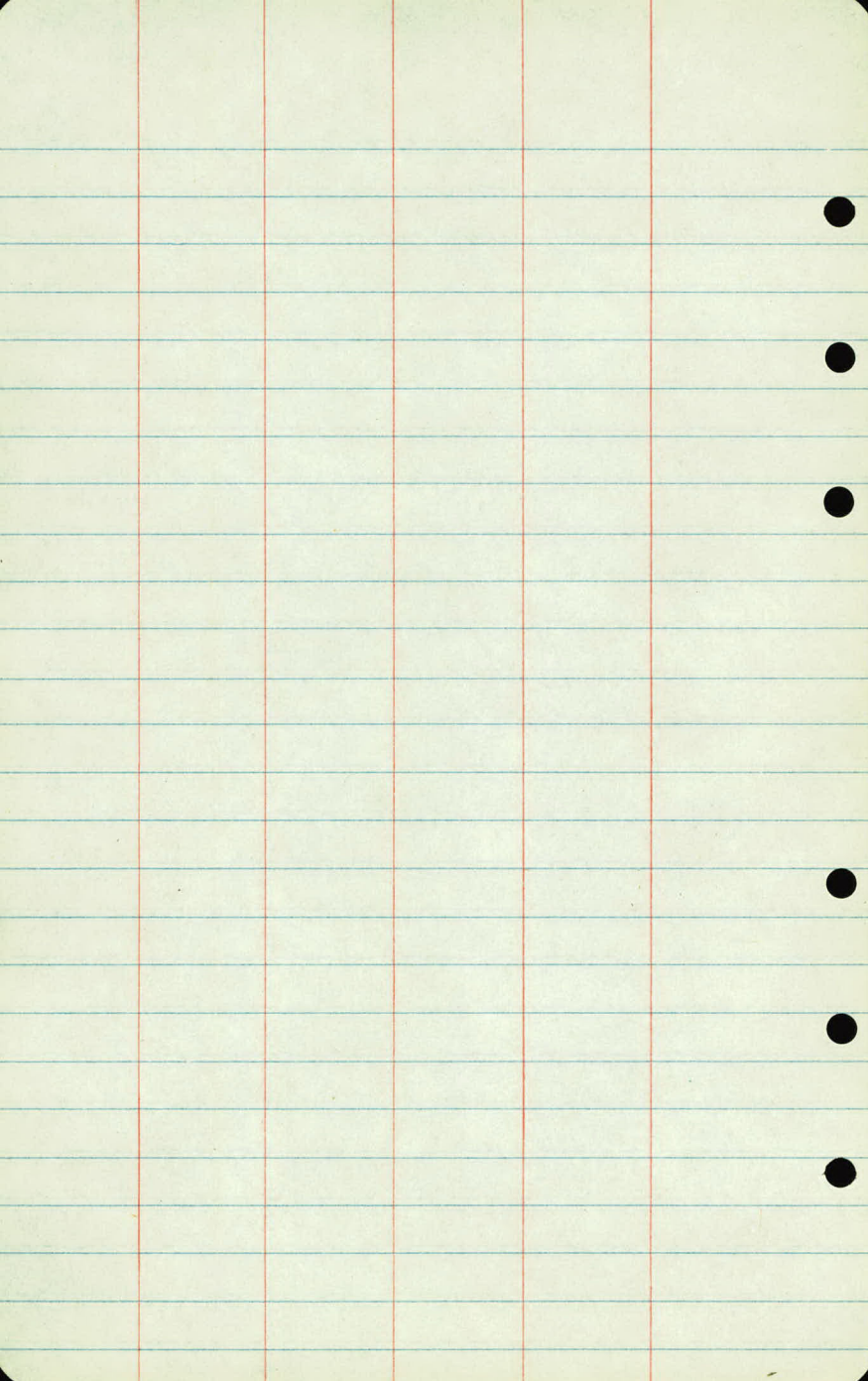
24 +86.30'	P.L.	31°26'	
------------	------	--------	--

23 +09.64	P.O.T.		
-----------	--------	--	--

10-11-44

59





Levels

Sta	+	π	-	Elev.
B.M.	4.86	920.84		(915.98)
T.P.	2.49	915.88	7.45	913.39
23 +0364				10.6 905.3 -

+36			96	06.3 -
-----	--	--	----	--------

+60			92	06.7 -
-----	--	--	----	--------

24			90	06.9 -
----	--	--	----	--------

+50			89	07.0 -
-----	--	--	----	--------

+60			86	07.3 -
-----	--	--	----	--------

+68			59	10.0 -
-----	--	--	----	--------

+76			57	10.2 -
-----	--	--	----	--------

10-12-44

61

Lt.

&

Et.

Spk in 24" O.S.N. Cor. Cleveland & "D"

Sta	+	π 915.88	-	Elev
24	1863		54	10.5.
	+98		58	10.1.
25			68	09.1.
	+06		84	07.5.
	+12		81	07.8.
	+18		63	09.6.
	+56		60	09.9.

26

Lt

E

Et

Sta	+	π 915.88	-	Elev
26	+50		63	09.6.
27			7.0	08.9.
	+50		84	07.5.
28			92	06.7.
T.P.	107	908.67	828	907.60
	+50		30	05.7.
29			3.7	05.0.
	+50		4.2	04.5.
30			4.9	03.8.

Lt

E

Pt

108-P.P-1'

Sta	+	π	-	Elev
		908.67		
30	+50		5.2	03.5.
31			5.6	03.1.
	+50		5.8	02.9.
32			5.9	02.8.
	+50		6.3	02.4.
33			6.5	02.2.
	+50		6.6	02.1.
34			6.7	02.0.
T.P.	1.14	903.23	6.58	902.09

lt

E

Et

Sta	+	π	-	Elev
		903.23		

34	+50		1.3	01.9.
----	-----	--	-----	-------

35			1.3	01.9.
----	--	--	-----	-------

	+26		1.2	02.0.
--	-----	--	-----	-------

	+80		1.9	01.3.
--	-----	--	-----	-------

36			2.7	900.5.
----	--	--	-----	--------

	+50		3.1	00.1.
--	-----	--	-----	-------

37			3.3	899.9.
----	--	--	-----	--------

	+15		3.2	900.0.
--	-----	--	-----	--------

Lt

E

Et

E+W

35 + 87 - Woven Wing Fe Xs G (poor cond.)

Sta	+	π ✓	-	Elev
		903.23		
37	+50		42	899.0.
	+87		4.7	98.5.
38			5.0	98.2.
	+25		54	97.8.
	+42		6.7	96.5.
39			8.2	95.0.
	+50		84	94.8.
40			9.0	94.2.

Lt

E

Rt.

+89 E.W. Fe X5 E (barbed wire)

+50-Beg Swamp

94.4

8.8 = Rod pushed to solid bottom

Sta	+	π 903.23	-	Elev.
40	+18		86	94.6.
	+27		69	96.3.
	+50		65	96.7.
	+76		61	97.1.
41			56	97.6.
	+37		55	97.7.
	+70		50	98.2.
42			55	97.7.

LH

E

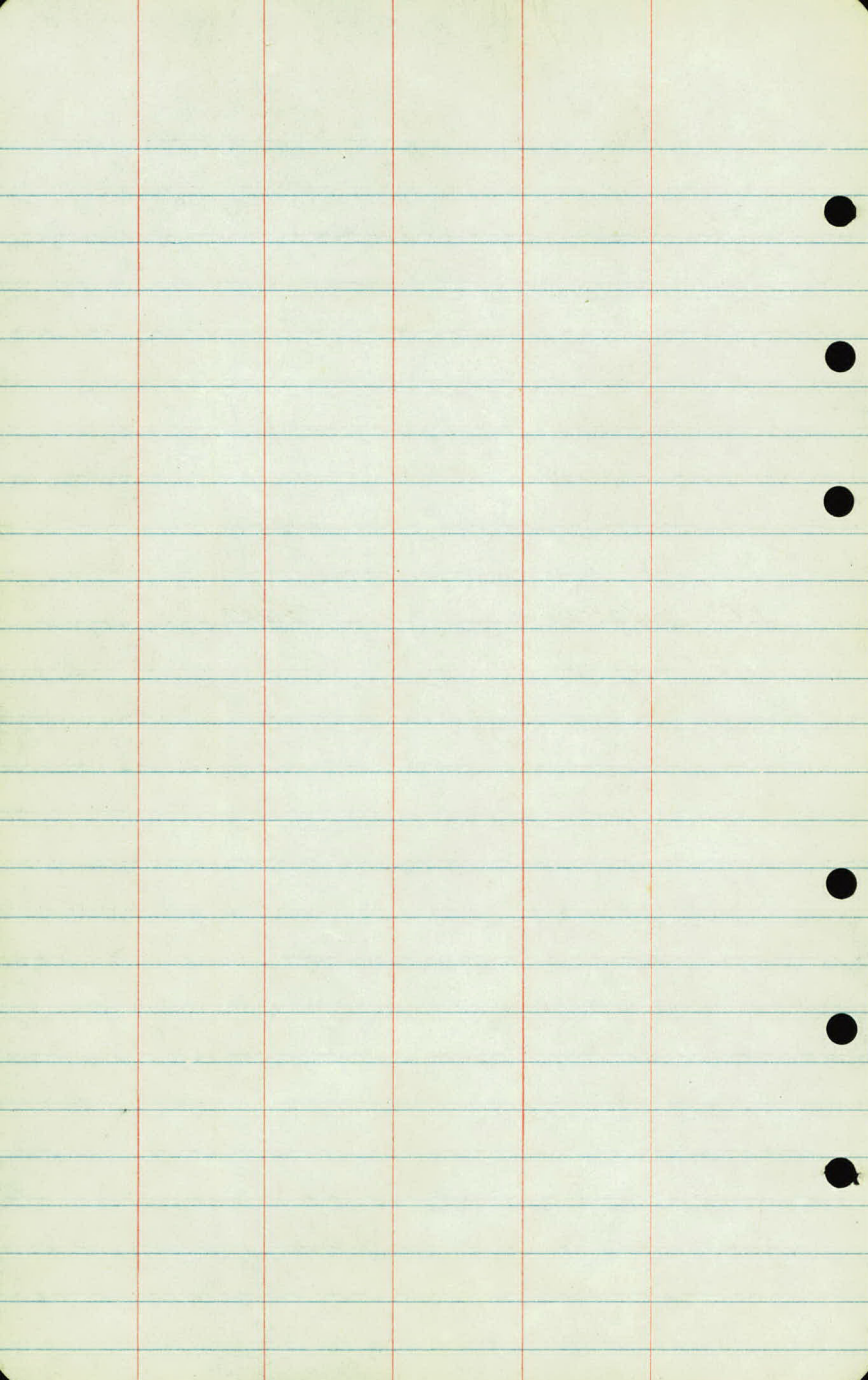
BT

+30-End Swamp

95.2
 700 slope
 80 5.2
 10 3
 980

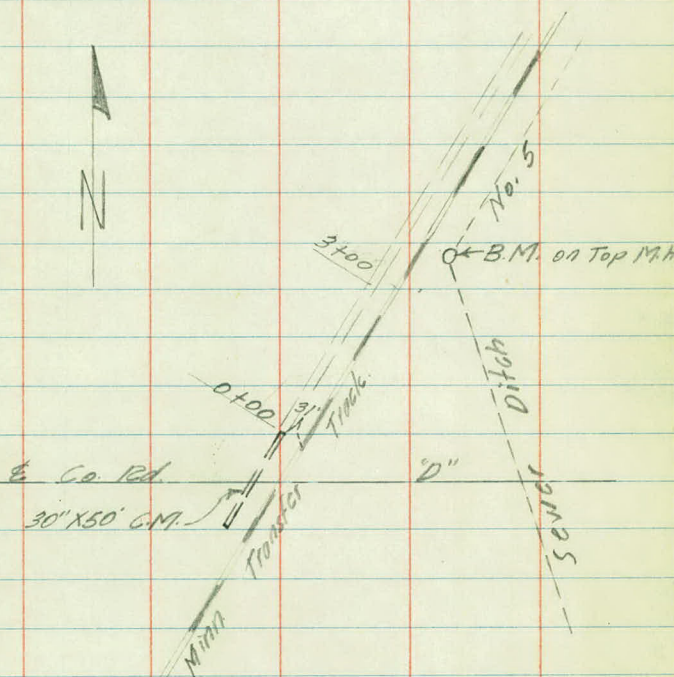
Sta	+	π 903.23	-	Elev.
42 127.95			5.2	98.0.
+28			5.5	97.7.
42 + 32.47 = 43 + 72.75	} Equal		7.9	95.3.
B.M.			5.53	897.70 ✓ (897.66)

Top & N End Headwall at End of Sewer



DITCH No. 5

Levels at Co. Rd. "D" and Minn Transfer Track.



Sta.	+	π	-	Elev.
B.M.	8.90	912.73		(903.83)

& Tracks & Co Rd. "D"			44	
-----------------------	--	--	----	--

0 +00			120	
-------	--	--	-----	--

0 +00 Ground			11.5	
--------------	--	--	------	--

+50 Typical Xsection

1			11.5	
---	--	--	------	--

+50			11.8	
-----	--	--	------	--

2			11.4	
---	--	--	------	--

+50			11.4	
-----	--	--	------	--

3 Typical Xsection

4-446
K.A.
A.M.
C.F.

Lt.

E

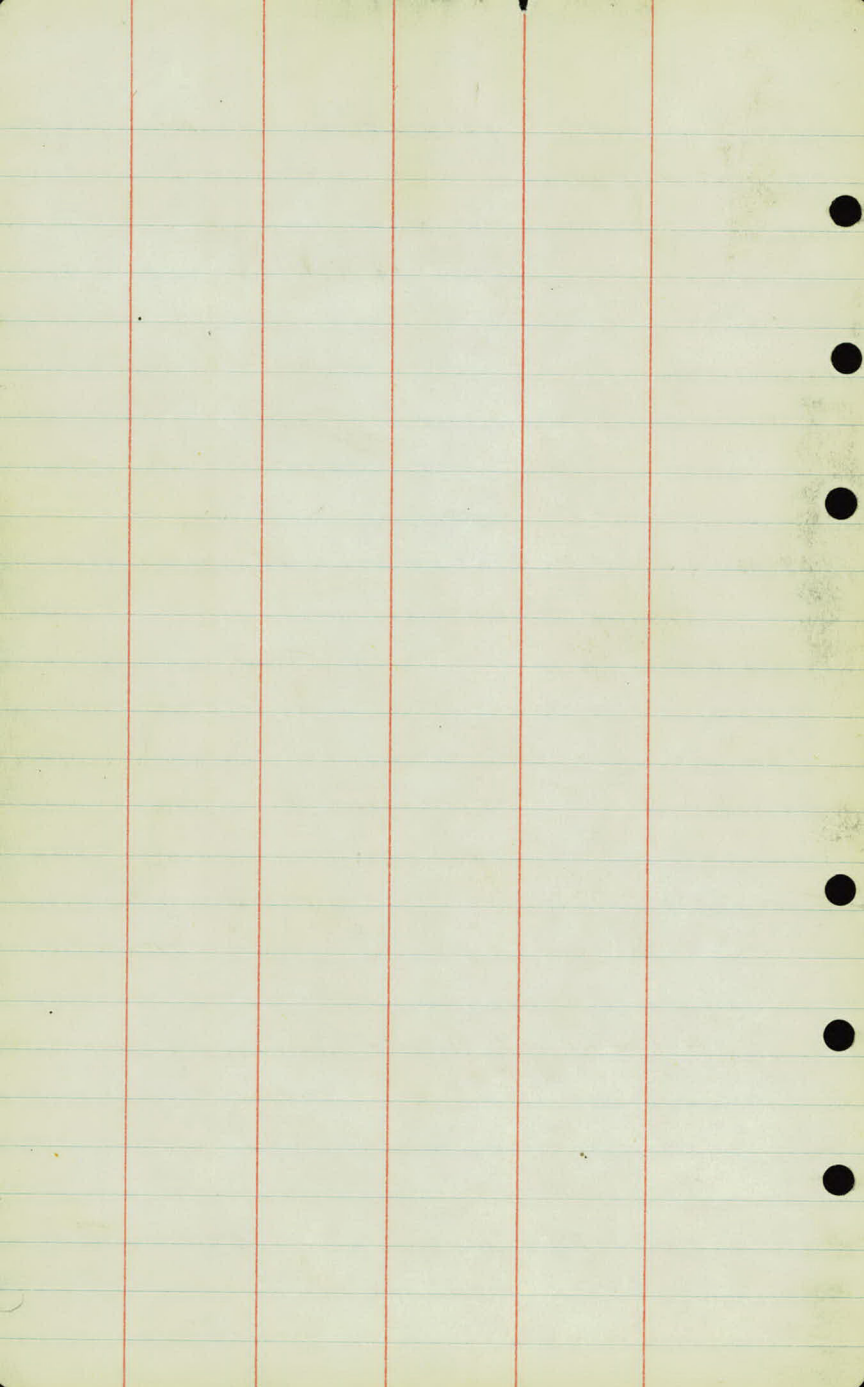
Rt.

Top M.H.

44

82 82 88 109 109 104 85 85 63 52 46 = Top W Rail = E section
50 36 31 (28 27) 26 21 16 8 5
(ditch)

76 77 106 120 120 105 85 71 59 49 = Top W Rail = E section
50 33 26 25 23 23 20 15 5



Cleveland Ave

Alignment

Plans Com. Nov 1 1944

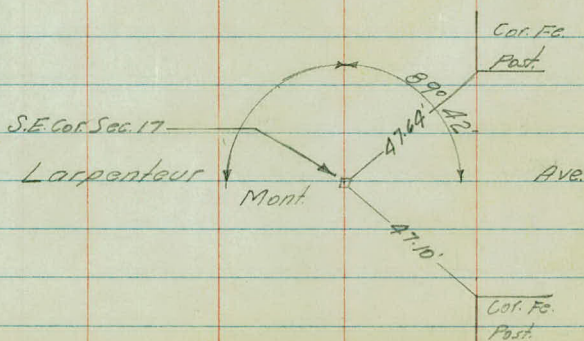
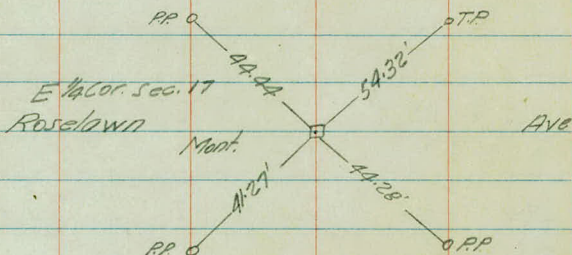
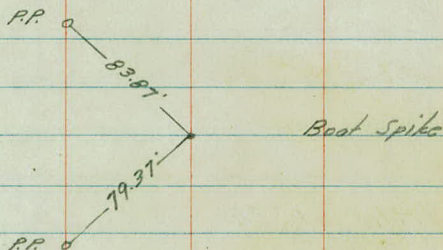
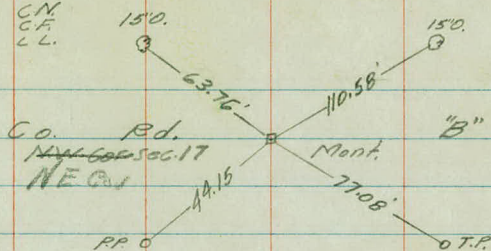
Sta	Point	ΔLt	ΔEt
52 + 58.69	P.I.	0° 10'	

36 + 00	P.O.T.		
---------	--------	--	--

26 + 33.46	P.I.	0° 04' 40"	
------------	------	------------	--

0 + 00 = P.I.	0° 21'		
---------------	--------	--	--

5-31-44 +90°
K.A.
L.C.
C.N.
C.F.
L.L.



Sta.	Point	$\Delta Lt.$	$\Delta Et.$
------	-------	--------------	--------------

88+87.02	P.O.T.		
----------	--------	--	--

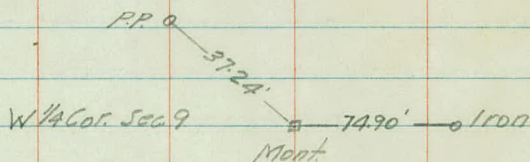
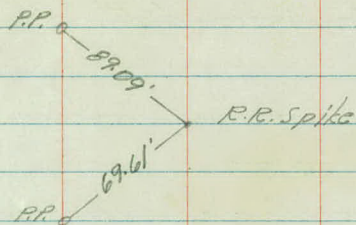
78+98.95	P.I.	$0^{\circ} 34'$	
----------	------	-----------------	--

66+77.08	P.O.T.	$= \angle S.T.H 36$	
----------	--------	---------------------	--

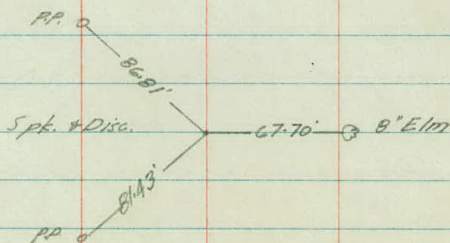
63+12.52	P.O.T.		
----------	--------	--	--

6-2-14
K.A.
L.C.
C.F.
C.M.
C.F.

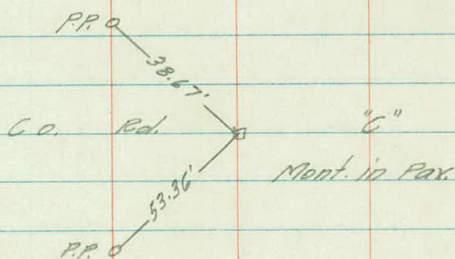
73



• Spike + Disc.



Sta.	Point	Δ Lt.	Δ Rt.
105 +16.05	P.I.		
103 +11.70	P.O.T.		



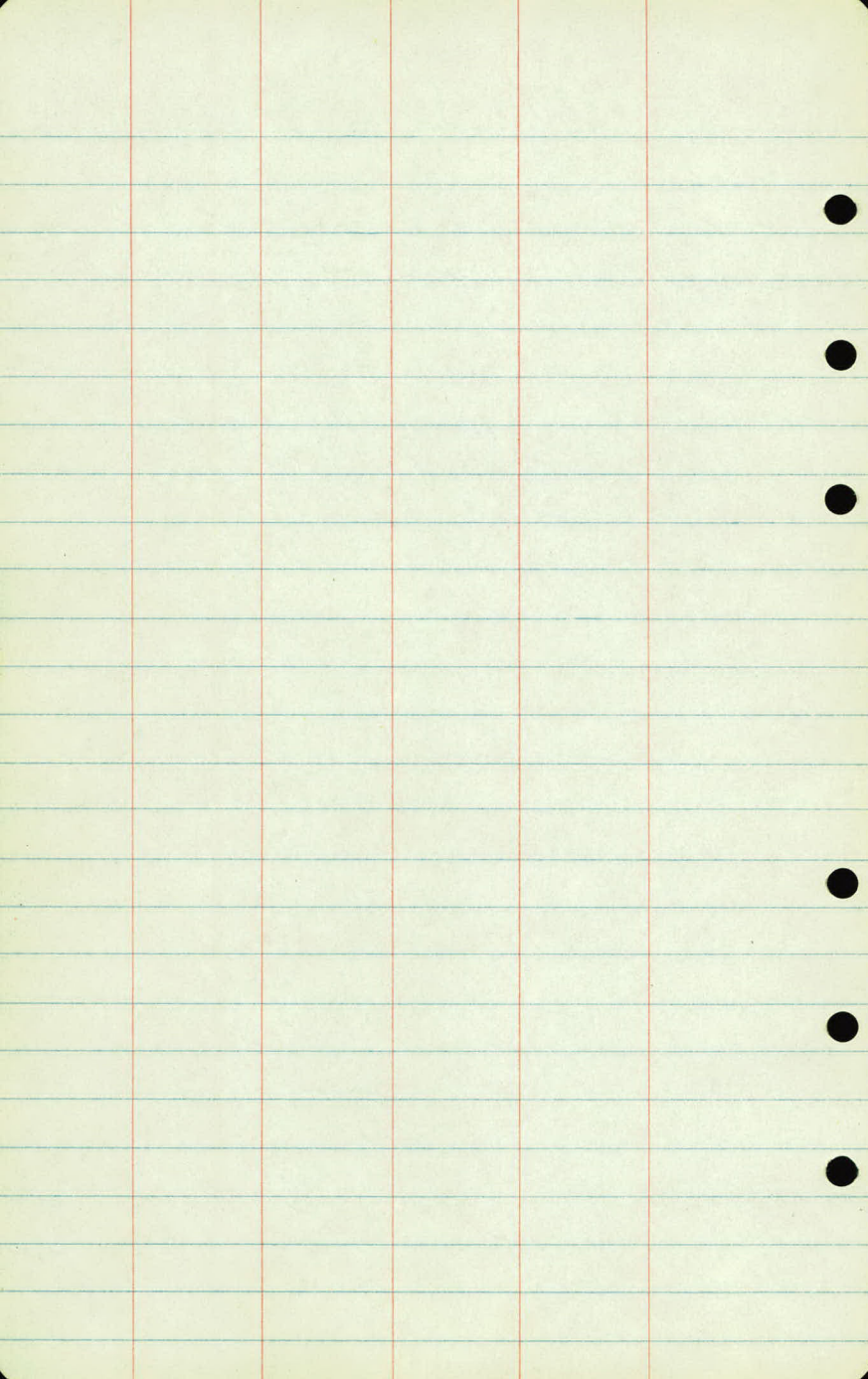
Sta	Point	Δ Lt	Δ Rt
-----	-------	-------------	-------------

PLAN SURVEY

CLEVELAND AVE.

Co. Rd. "C" to Co. Rd. "D2"

Reid Aug 12-44



Alignment

Sta	Point	ΔL	ΔP
-----	-------	------------	------------

186+75.31	P.I.	0°20'	
-----------	------	-------	--

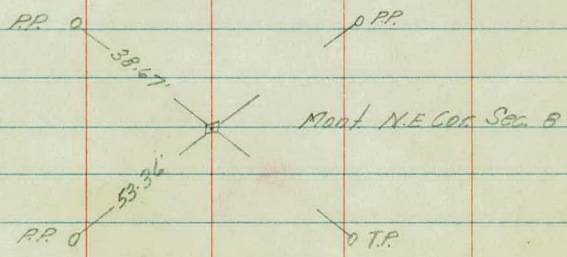
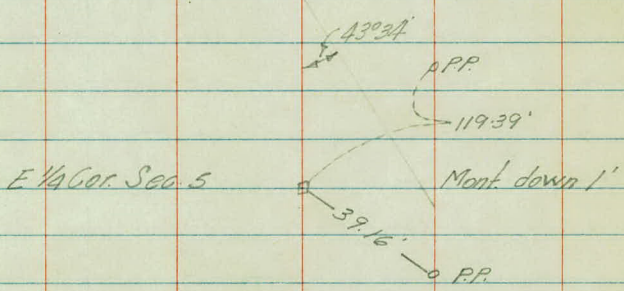
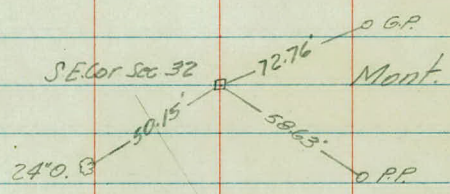
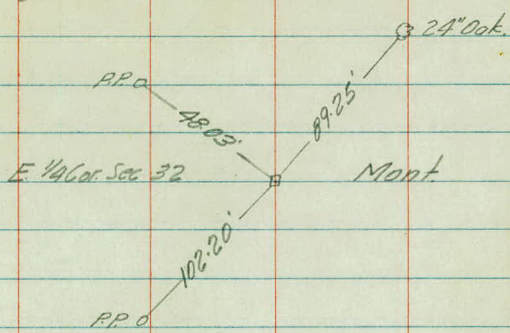
160+60.40	P.I.	1°04'	= E Co. Rd "D"
-----------	------	-------	----------------

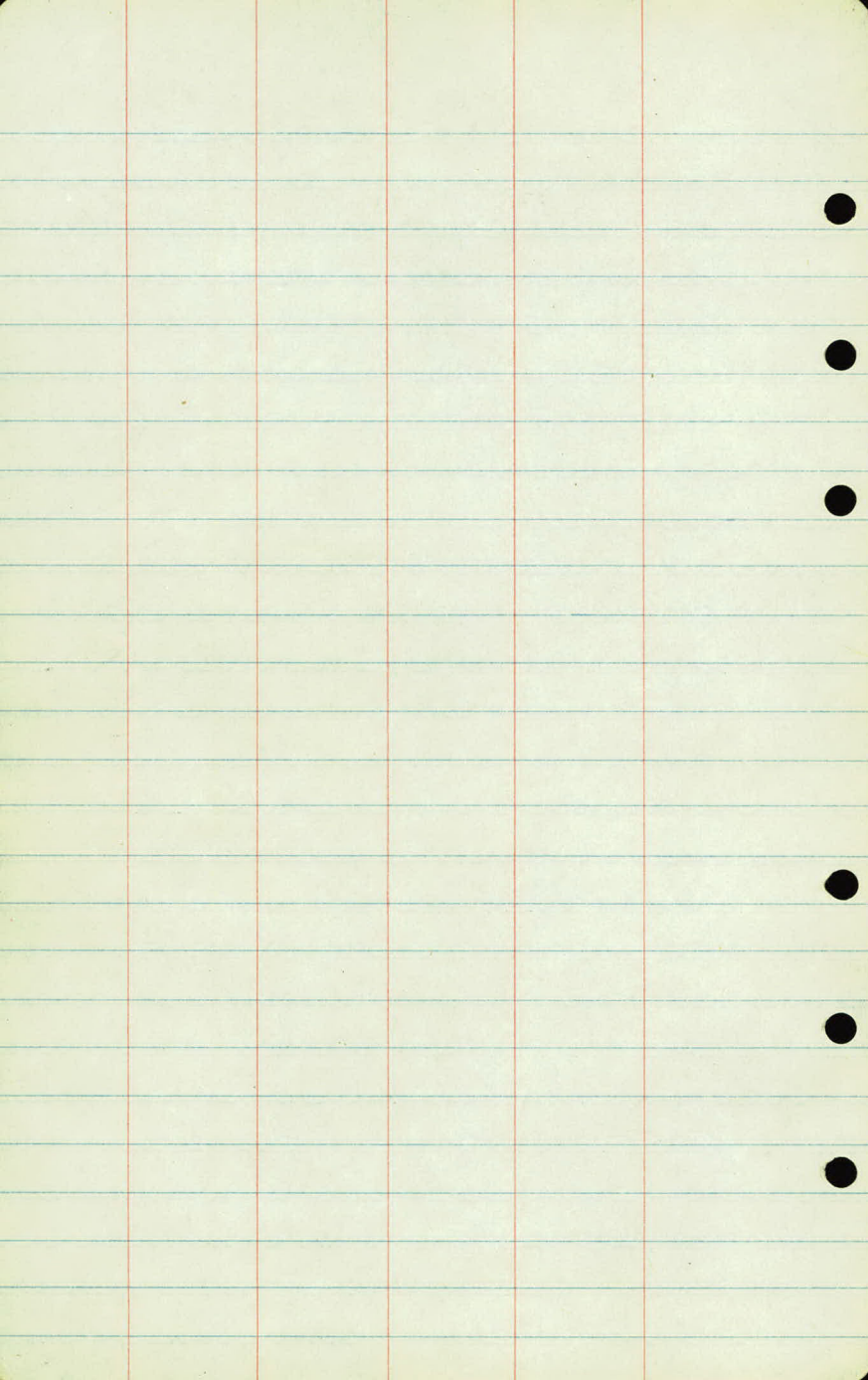
149+91.62	P.O.T.	= 11+34.9	P.O.T. Ditch No. 5
-----------	--------	-----------	--------------------

131+53.40	P.O.T.	= E Co. Rd. "C. 2"	
-----------	--------	--------------------	--

105+16.05	P.I.	0°20'	
-----------	------	-------	--

7-21-44
K.F.
L.C.
C.F.
B.S.
D.G.





Topography

+90-Ent.

+72-P.P-28'

4

10' 13'

3 +15-Bed. Cut
Fe.-31'

+22-P.P-28'

10' 13'

Fe.-33'

+80-S/p-35'

2

10' 13'

+66-S/p-34'

+13-P.P-28'

1

11' 12'

+40-12" Elm-36'
+33-Fe. Cor.-32'

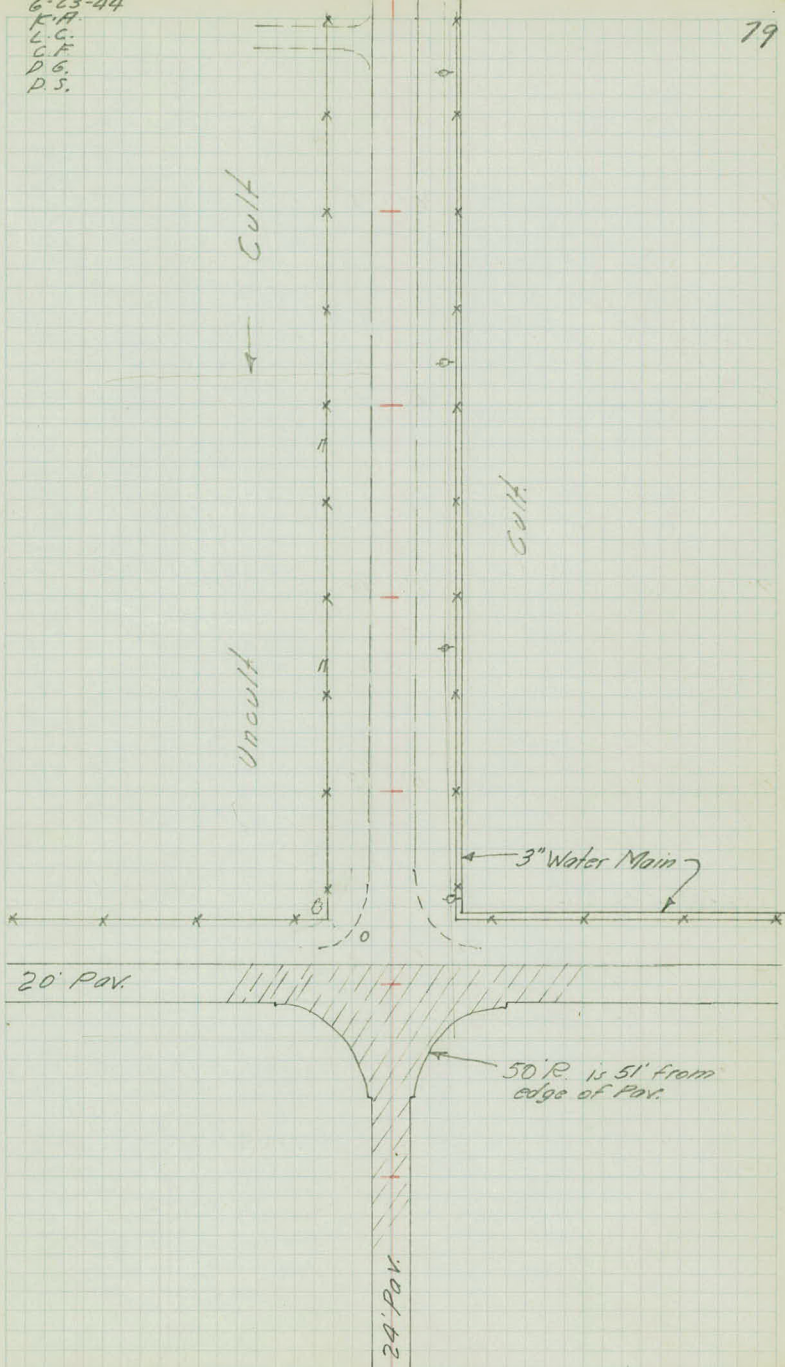
+52-12'

+35-Water Main-36'
+59-12'
+44-P.P-31'
+34-Fe. Cor.-33'

0 +15-Td. M.H.-13.5' +18-37' 46'-118'

6-23-44
K.A.
L.C.
C.F.
D.G.
P.S.

79



11 10' 13' Fc-33'
+90-P.P.-28'

+42-P.P.-35'

+28-Cor. Parking Area-25'

10 9' 13'

+50-Cor. Parking Area-28'
+38-Cor. Shrubs + Tr's -41'
+37-P.P.-30'

+54-Fc. Cor.-33'

+34-P.P.-

9 9' 13' Fc.-33'

+67-Beg. Shrubs + Tr's - 73-34'
+51-12"X17"CM-27'-Ent.
+50-Cor. Trees-32'
+39-2 Driveway -100'
+11-Cor. Trees-31'

8 10' 13'

+98-Ent + 2 12"X20"CM-24'

+82-Cor. Shrubs-32'

+76-8" Tree-36'

+82-Range tie to ent.

+56-End Fc-32'

+71-P.P.-28'

7 Fc-31' 9' 13' Fc-33'

+83-Tol. M. H.-10.5'

6 9' 13' +21-P.P.-28'

5 Fc-30 9' 13' Fc-33'

Green Ho.

Cult

Pasture

Trees

shrubs

Yard

4' to 12' willows

Yard

shrubs

Tel. Cable

3" Water Main

Pipe approx. 1'
below ground

Cult

Cult

+79-20"O.-27'

+78-12"O.-28'

+67-8"O.-28'

+50-12"O.-30'

+55-PP-

+20-12"O.-29'

18

10' 11'

+85-8"O.-31'

+67-10"O.-32'

+52-Dia 1" Pipe - 33'

+44-Dia 1" Pipe - 41'

+26-15"O.-31'

+18-9"O.-31'

+14-10"O.-30'

17

10' 11'

+05-PP-28'

+70-Cor. 5'x5' Brick + Conc. M.H. - 40'

+71-Dia 1" Pipe 33'-40'

Gate Valve in M.H.

+54-6"O.-33'

+70-Gate Valve - 33'

-Elbow - 40'

16 FC-33'

10' 12'

+56-PP-28'

15

10' 12'

14

10' 13'

+02-PP-

FC Cor.-33'

+88-Wood Steps over FC.

+84-FC Cor.-

+50-Tol. M.H. - 11.5'

+24-6"O.-43'

+17-Reg. FC-33'

13

9' 13'

FC-33'

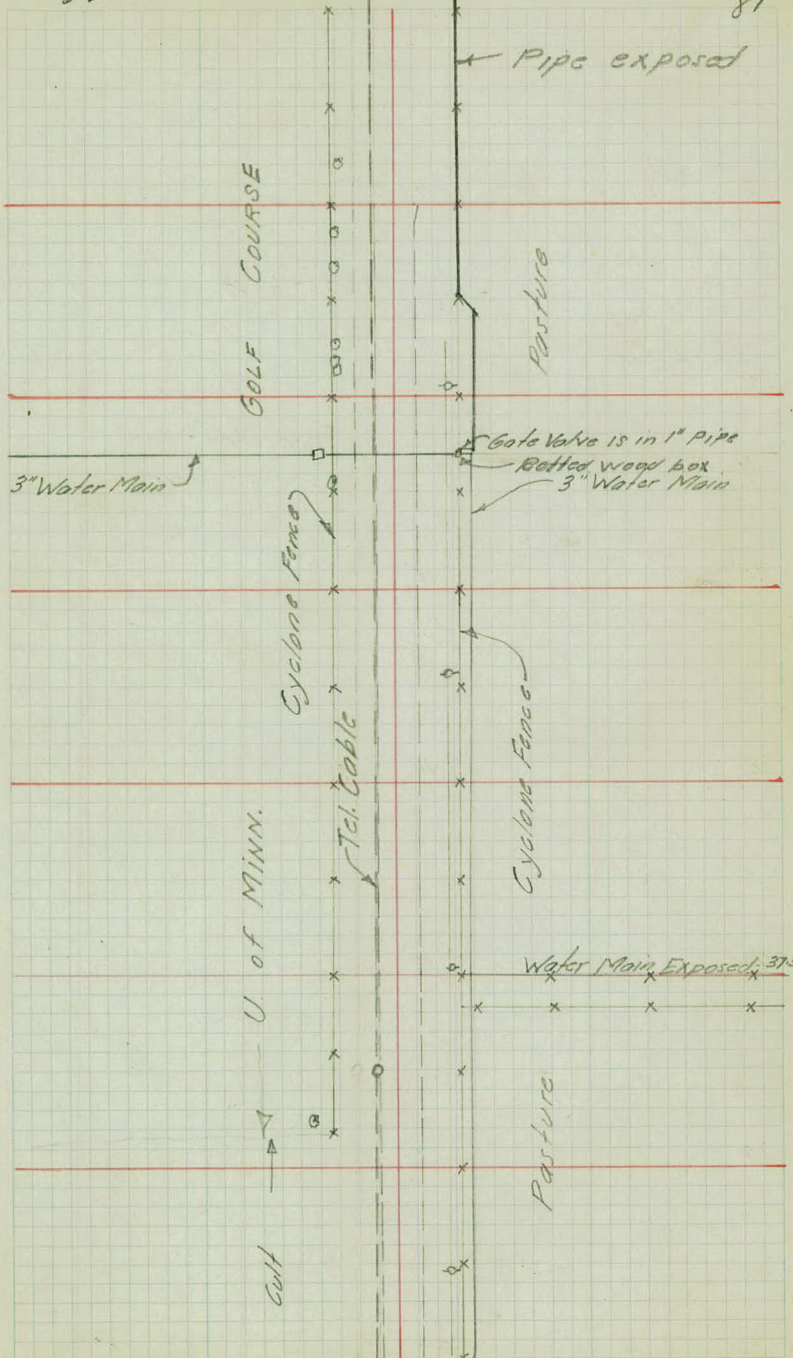
+46-PP-28'

12

9' 13'

6-23-44

81



GOLF COURSE

Pipe exposed

Pasture

3" Water Main

Gate Valve is in 1" Pipe
Rotted wood box
3" Water Main

Cyclone Fence

Tel. Cable

Cyclone Fence

U. of MINN.

Cult

Water Main Exposed

Pasture

PP-24.5' Pothole 36'
+93-6 R-21' +85-Rd-11' +94-15' 20A-38' +98-PP-28'
+82-Cor-13'

+45-Beg. 6 R-21'
25 Pothole-30' 11' 12'

+64-24"X48" CM X Drain-28' 20'
+52-PP-28'

Pothole-25'
24 Cable-38' Pothole-25-97'
+92-Fc Cor-33'
+90-Range Tie +83-Cable X 4
+80-Pothole-33-90'
+64-Gate-

+54-PP-25'
23 +102-PP-28'
11' 12' Fc-33'

+58-36" O.-41'

22 +96-12" O.-39' 11' 12' Pothole-70'-142'

+60-Pothole-85-141'
+52-PP-

+27-24" Pop-30'
21 +102-24" Pop-30' 11' 11' Pothole-33'
+155

+60-Gate in Fc.

+17-24" O.-30'
20 Fc-33' 10 11' +70-End of 1" Pipe-33'
+107-PP-27.5'
Fc-33'

+72-8" Pop-33'
+50-Fc Cor-33'

19 10' 11'

6-23-99

+02-Fogher-33'

82

2-2" Cables
station WLB

Pothole-33'

+64-Pothole-62'
28'

Pothole

GOLF COURSE

U. of MINN.

Pothole

Pasture

+80-Pothole-70'-34'

+87-Shrub-38'
+77-Shrub-38' +96-Shrub-37'
+72-Shrub-38' +89-Shrub-33'
+68-4" Pine-47'
+35-Ent 15"X20"CM
+60-6" Pine-23'
+25-2 Hedge-36'
+19-Cor Nursery-48'

32 Pothole- -43' 9' 12'

+83-P.P.-27'

+40-Pothole-80'-100'
+41-S.E. Cor-40'-132'
+24-Ent 15"X20"CM
+16-Cow Shrub-48'
31' 10' 12'

30 H.O.-P.P.-28'

+40-Cor Nursery-50'
+21-OR-E-39'
+14-Boulder Mark-31'
9' 13' 45" Parallel

29 Pothole-118'
+93-Ent G.P.-19.5'

+10-Ent 15"X24"CM-26'
+93-18" Elm-50'
+91-210" Wide Hedge-50'

+38-P.P.-27' Pothole-34'

+83-15" Elm-50'
+60-Ent Hedge-42'-53'
+38-18" Elm-52'
+21-15" Elm-52'
+18-5" W. Cor Fla-73'
+102-Beg Lillies-46'-54'
9' 12' +96-24" Elm-62'

28 G.P.-19.5'
Pothole-30'

27 9' 12'
+92-G.P.-19.5'
+94-24"X72"CM X Drive 41' 31'
+70-P.P.-27' +94-Rd-11'
+52-Td. M.H.-10.3'
+48-G.P.-53' +72-Pothole-41'
+60-Pothole-64' +45-Rd-43'

+78-G.P.-33'
+77-Rd-13'
+42-Rd-44'
+21-Rd-48'

+12-G.P.-43'-91' +20-Rd-46'
26

+78-8'E/100-65'
+72-8' Pine -56'
+63-2' 90° -55'



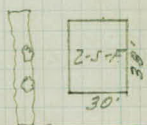
Pothole

Nursery

Uncult

(Pinkey's Lake)

Cable



Pothole

Uncult

Cable G.R.

24" X 34' CM

110'

+90 P.P. - 28'

109-Bog. Golf Course

39

10' 11'

+37-P.P. - 28'

38

9' 11'

+30 Ent - 12" x 18' C.M. - 20'

+18-10" B.E. - 41'

+60 Ent. - 15' x 20' C.M. - 24'

+65 Ent. 12" x 20' C.M. - 23'

+57 10" Will. W 46'

+50 P.P. 28'

+40 Cor. Orchard 57'

37

11' 12'

+80-P.P. 28'

+90 Cor. Orchard 57'

+80 8 Birch 43'

+63-15" E/M - 67'

+38-18" P.O.P. - 56'

+22 Ent. 12 x 18 C.M. - 22'

+17-Shrub - 39'

36

10' 11'

+97 Ent. - 12" x 20' C.M. - 22'

+80-Shrub - 35'

+70-Shrub - 35'

+46-5 E Cor. Ho - 108'

+35 Ent 15' x 20' C.M. - 24'

+26 P.P. - 28'

35

11' 12'

+94 Ent - 12" x 18' C.M. - 22'

+88 P.P. - 30'

+77 Shrub - 35'

+73-10" E/M - 48'

+54 Shrub - 42'

+51-12" Pop - 35'

+78-N.W. Cor. Ho. - 81'

+42 Ent - 12" x 20' C.M. - 22'

+33-12" Pop - 35'

34

+15 Ent 15' x 20' C.M. - 24'

10' 11'

+67-Pothole - 51'

+54 P.P. - 28' Pothole - 33'

+56-Row Willows - 37'

+52 Shrub - 33'

+45-Row Bush - 40'

+42-Pine - 46'

+40-Shrub - 35'

+31-Pine - 45'

+20-P.P. - 30'

+34-Binc - 54'

+34-Shrub - 34'

33

10' 12'

cult.

cult.

Orchard

28'
130'x
20'

34'
1-5-F
24'

Up cult

○ ○ ○ ○ ○ ○ ○ ○

*
* *

+70-Pothole-23'

+48-PP-31' + Beg Hedge-32'

+10-PP-28'
46 Pothole-22'

12' 13'

45 Pothole-23'

12 13

+80-E 24' Top Gravel Rd

+55-PP-28'

+61-Pothole-27'-66'
+60-PP-73'

44 Pothole-26'

12' 13

Pothole-24'-63'

43 PP-28 Pothole-30'

12'

+15-Pothole-75'
+90-Pothole-32'
+90-Pothole-170'

+60-End 8" Tile-45'

+48-Pothole-52'-37'

+68-Pothole-38'

+35-Pothole-60'

+27-Beg 8" Tile 73'

42 Pothole-62'

10'

11' Pothole-78'-165

+46-PP-28'

41 Pothole-134'

10'

11'
+98-EXT. 15" X 30" C.M. 25"
+90-PP-41'
+74-4" E/M-40'

+50-4" E/M-10'

+28-4" E/M-10'

+25-S.W. Cor. 1 1/2" S. H.D. - 94'

+00-4" E/M-40'

40

11'

12'

See station notes for outline of Pothole.

Pothole

GOLF COURSE

Yard

Uncult.

Uncult.

Pothole

E1. 962.3
Burried
E1. 963.2

Pothole

1 1/2 Stages
42'

+78-S/p-38'

+09-15°0'-40'

+08-Rd-11'

+25-Rd-13'

53

+92-Fc Cor -33'

+89-PP-28'

+72-Rd-41'

+70-Rd-65'

+48-Rd-60'

+46-Rd-75'

+36-TP-74'

+33-TP-57'

+17-Rd-10'

+25-PP-27'

10'

16'

52

+90-Rd-13'

51

9' 13'

+73-PP-28'

50

10' 13' +14-Fc Cor -38'

49

+17-PP-28'

10' 12' +06-12°0'-45'

+98-12°0'-43' S/p-36'

+92-15°0'-39'

48

10' 11' +02-Fc Cor -31'

+64-PP-28'

47

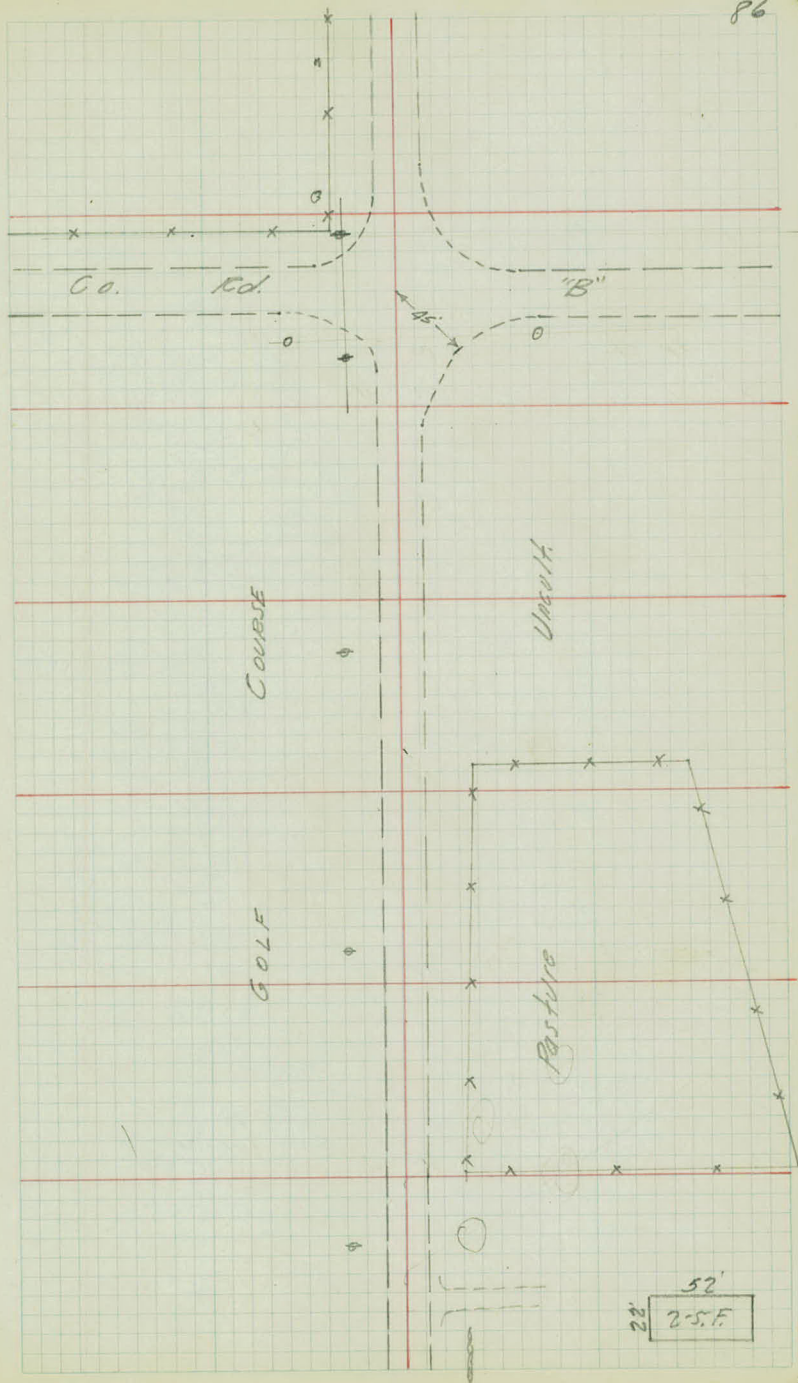
11

12

+36-Ent-

+23-End of Hedge -32'

+15-SW Cor. Hg. -127'



52'
25' F.

11' 11'
+79-PP-29

60

11' 12'

+71-PP-27
+60-24"X68"CM. X Drain --- 34' 34'

+22-PP-28'

59 Lowland-78-34' 12' 11'

+45-Shoulder-127'-94'

+05-Shoulder 60'-32'
58 Tel Cable-12.5' 10' 11'

+77-Shoulder-60-32

+62-PP-28'

57 Swamp-70' 10' 11'

+90-Swamp-35'

+30-Swamp-34'

+06-PP-28'
56 Swamp-66' 10' 11'
+89-Fc Cor-33' End-60'
+76-12"O-73'
+72-24"O-44'
+67-12"O-45'

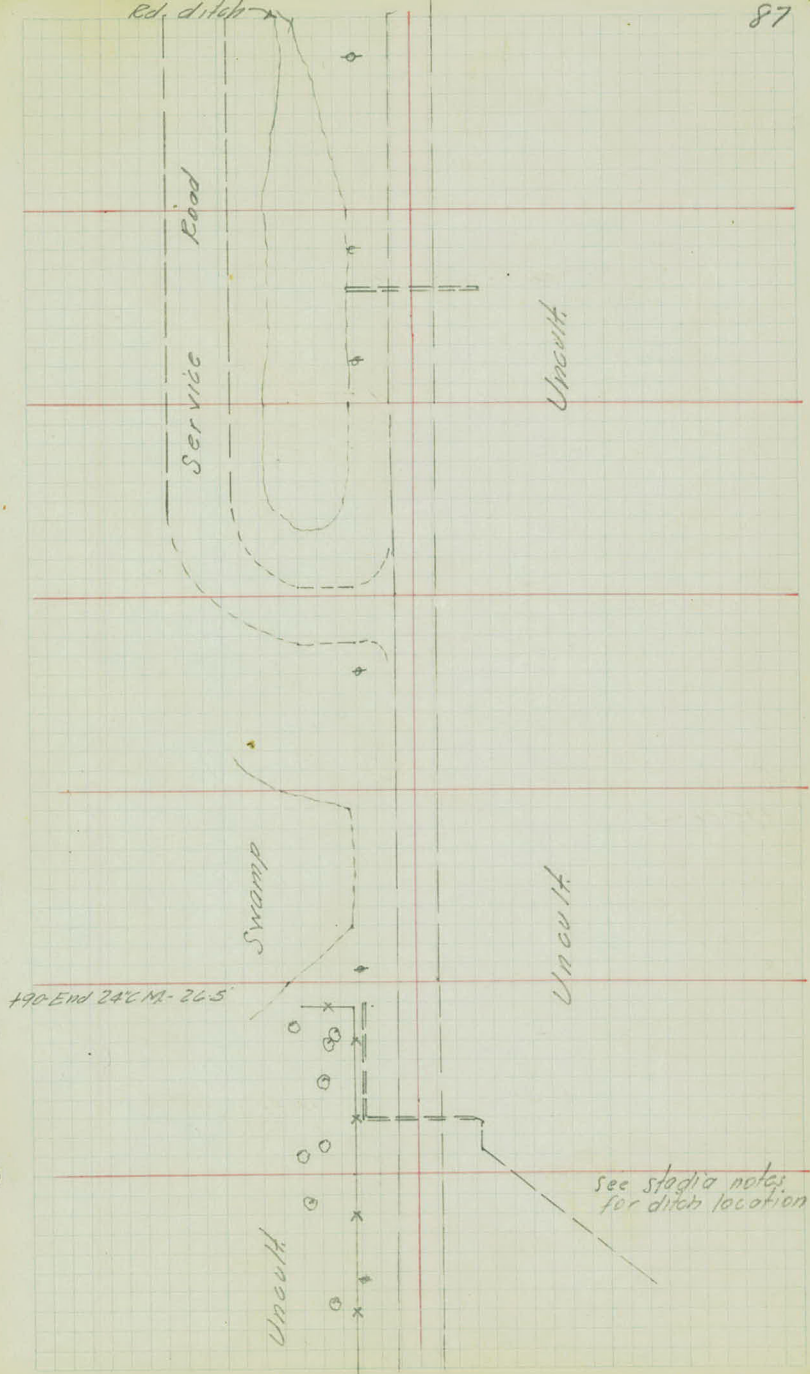
+48-10"Tw.O-47'

+15-10"O-47' +29-24"CM. X Drain - 29'
+09-18"Tw.O-60' +12-Ditch-33'
55 Stp-40' Fc-33' 11' 12'

+85-12"O-55'

+45-PP-28'
+33-18"O-44'

54 Fc-33' 11' 12'



+34-End 24" Conc Culv. - 48'

+61 Rd. - 58' 66' = +61

+48-End 12" CM - 34'

+41-End 24" Conc Culv. - 48'

+21 - 14' 15' = +20

66

13' 14'

+71-Ent - 15' x 20" CM

+60-PP-28' 27'

65

12' 11'

+90-15'0"-45'

+81-15'0"-61'

64

+10-Ent - 15' x 20" CM
12' 10' 24'

+95-PP-28'

+94-18'0"-52'

+77-15'0"-50'

+56-12" Elm - 59'

63

12' 12'

+95-Hedge-35'

+32-PP-28'

+38-PP-69'

+35-S/P-33'

62

11' 12'

+92-Shoulder-128'-95'

61

11' 11'

6-26-44

88

S. T. H.

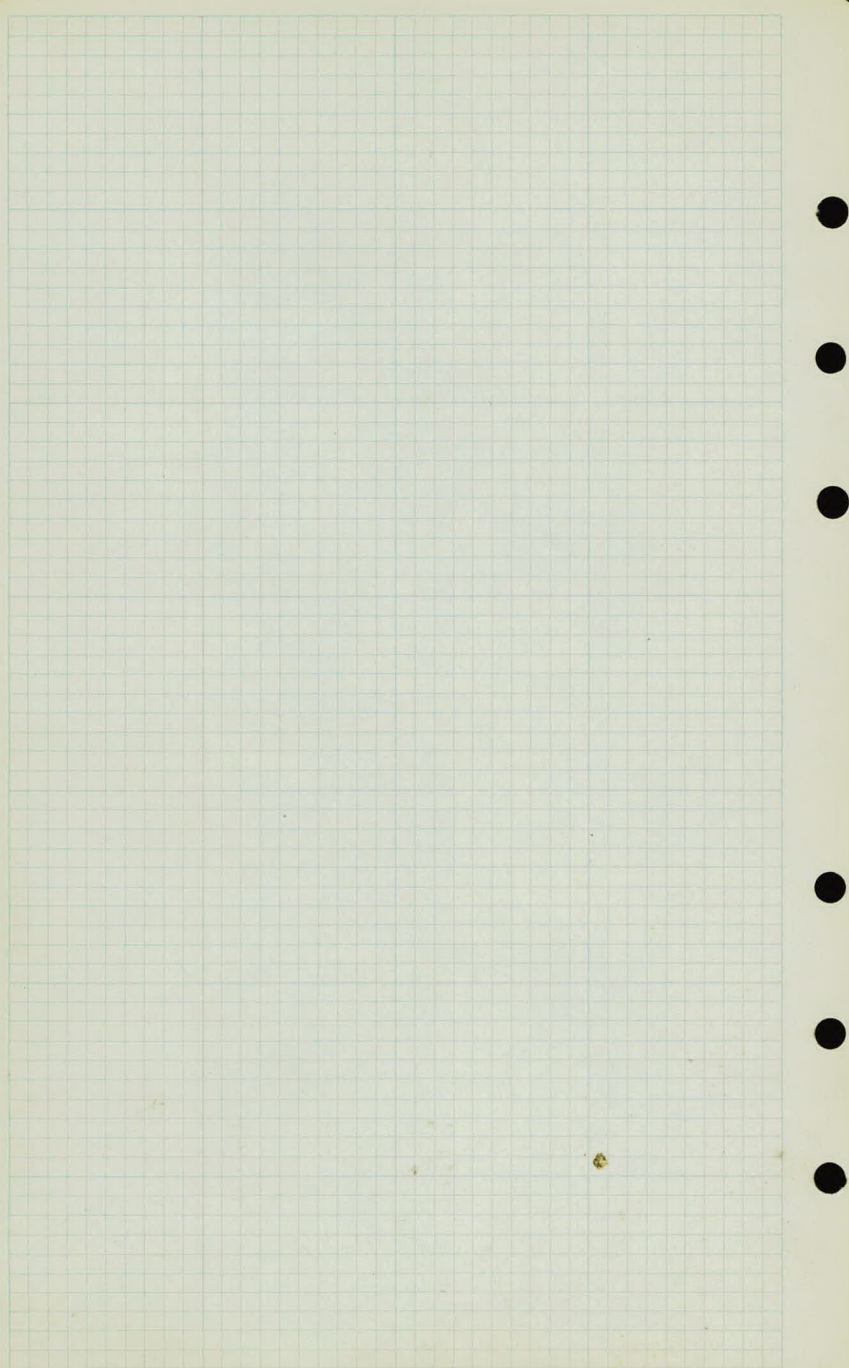
36

7' X 2.5' Bubble Intake

12' X 14' C.M.

Uncult.

Uncult.



Cleveland Ave

+91-10°D-42'

+92-25°D-20'

+92-12°D-43'

+48-PP-29'

+34-24°D-62'

+15-Ent-15'X20CM-22'

71 8°D-50' 13' 11'

Fe-41'

+95-10°D-51'

+86-8°D-50'

+61-4°Two-41'

+47-0°D-37'

+36-8°D-41'

70 PP-29

12'

+84-Rongo Tie to Fe

+84-Fe Cor -40'

+52-8°Top D-38'

+33-24°X67CM XDRain

32' 35'

+29-6°Top 35-50'

+20-4°D-40'

+16-8°D-37'

69

13' 11'

Pothole-38'

+88-PP-25'

+42-Pothole-47'

68

12'

+18-Pothole-57'

+32-PP-25'

Rd-18'

+44-Rd-14'

+34-Ent 20' Cana Culx-48'

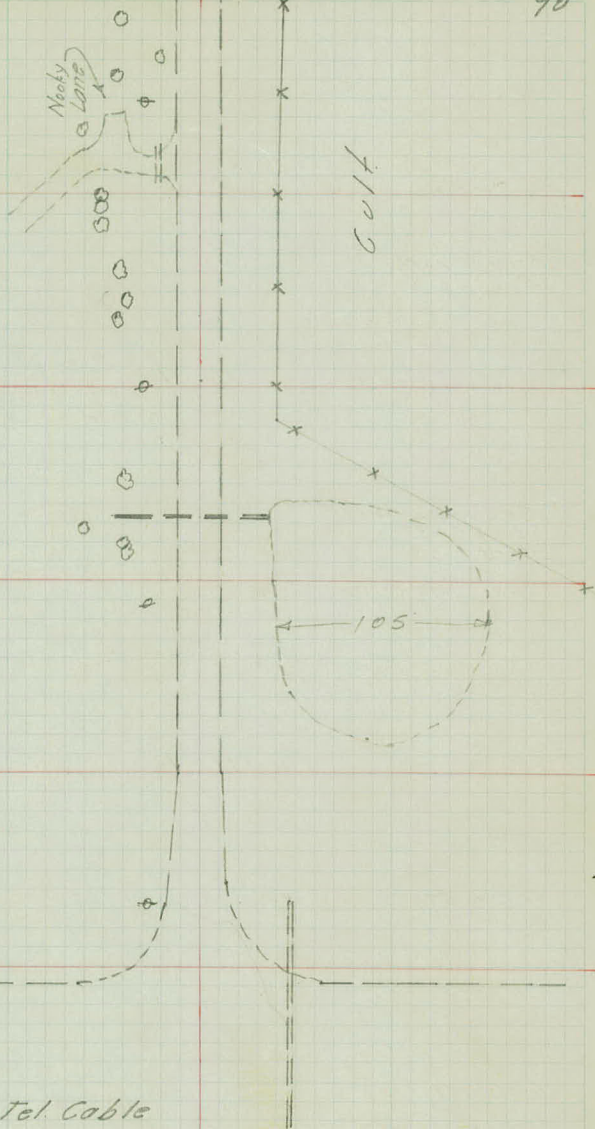
67

+94-Rd-61' 62'

66

6-26-44

90



Check for Tel. Cable
approx. 10' Lt of Φ

+98-Row Willows-60

+90-12" Willow-35'
+83-Fe Cor-35'

78 Swamp-35' 11' 11' Fe-32'

+70-PP-29'
+63-24"X62"CM X Drain 31' 31'

77 Swamp-34' 12 11' Fe-34'

+90-Swamp-47'
+21-24"O.-33'
+15-PP-28'
76 Shoulder-37' 11' 11'
Swamp-83'

+69-Fe Cor-33'-40'

+41-Shoulder-15-41'-70'

+10-30"O.-35'
75 Shoulder 77'-51' 12' 12' Fe-41'

+71-PP-28'

+38-12"O.-40'
+28-12"O.-40'

74 & Rd-70' 12' 11' Fe-42'

+89-24"O.-37'

+11-15"O.-65'
+48-15"O.-51'

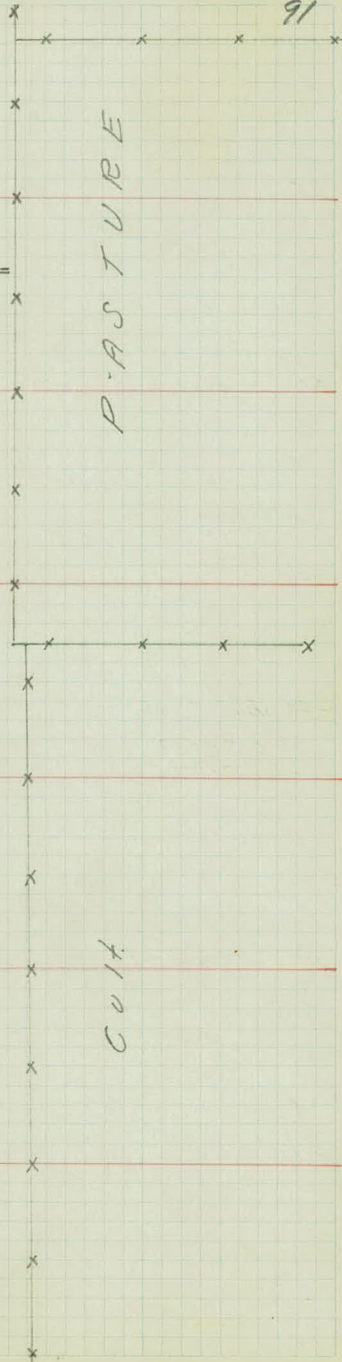
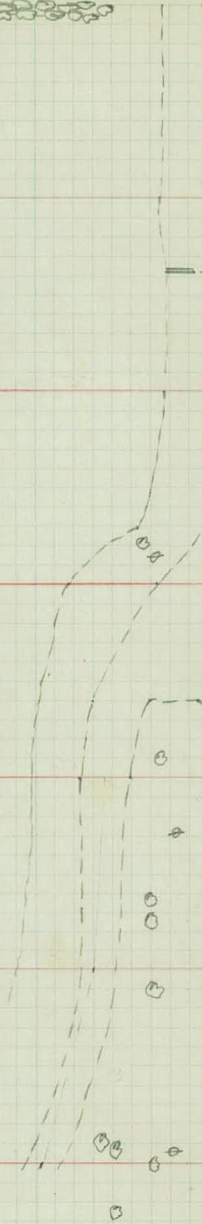
+10-PP-28'
73 6"O.-38' & Road-97' 13' 11' Fe-43'

+75-18"O.-57'

72 13' 12' Fe-43'

For additional swamp information see studio notes.

J W A M P



CULT

PASTURE

+66-Fc Cor-40'

+62-PP-29

+23-PP-28'

85

9' 12'

84

9' 12' +29-SW Cor. Barn-175'

End V Ditch-50'

+90-Fc Cor-58'

+90-Approx. Beg. V Ditch-190'

+14-PP-28.4'

+34-Fc Cor-67'

83

Fc-71'

+37-4-6" BEZ-37'

+44-En/15"x206M
24'

+50-Fc-65'

+24-PP-27'

82 Swamp-

10' 12' Fc-46

+92-Swamp-57'

+56-Fc-34'

81 Swamp-45'

10' 12' Fc-33'

+12-PP-28'

80

11' 11' +15-End 6" Tilt-125'

Fc-33'

+23-PP-28'

+12-6 Ditch-34'

79 Swamp-33'

12' 11'

6-26-44

92



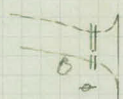
Cult.

Cult.

Barn
69'

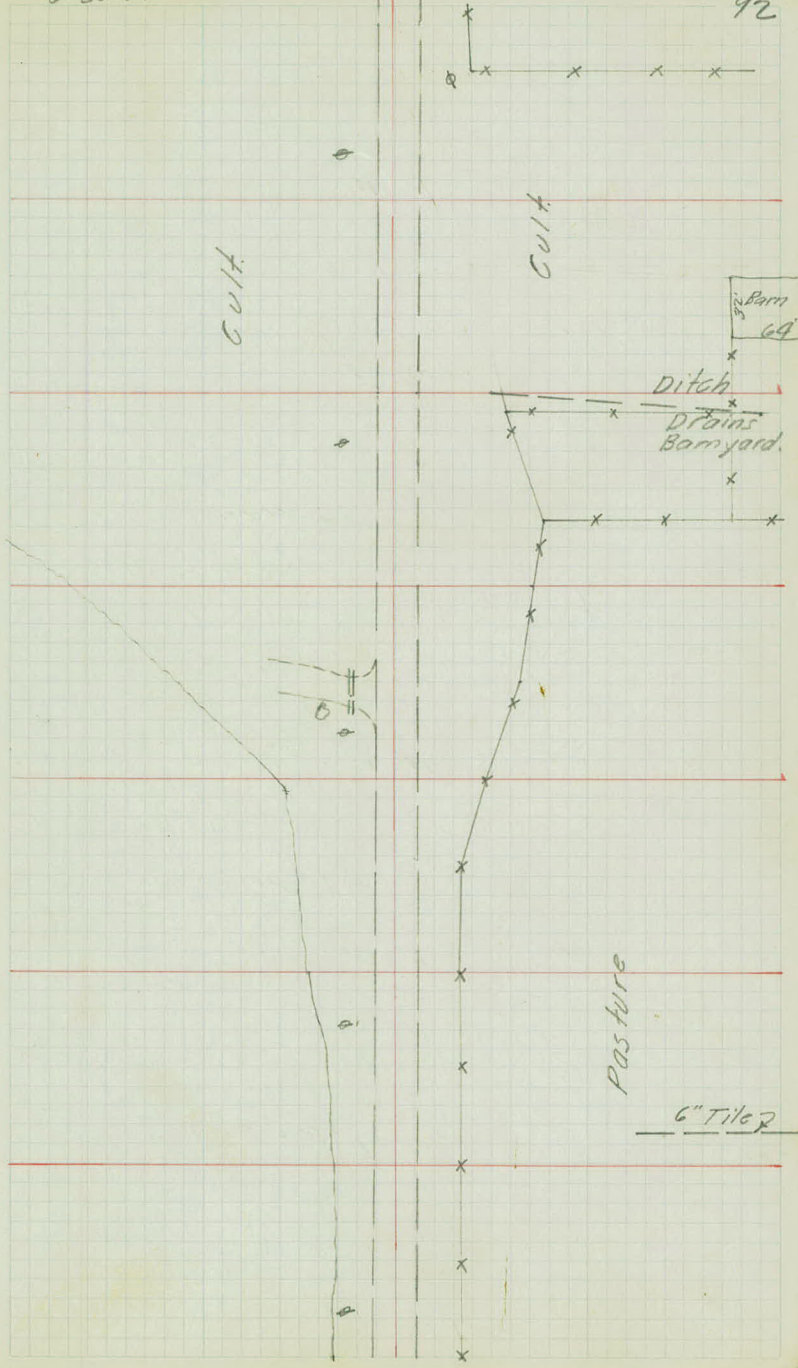
Ditch

Drains
Barnyard.



Pasture

6" Tile



+ 81 P.P. 27'

92 7' 15'

+95-High Line X 5 E

+60-Breather Pipe-24

+52-Breather Pipe-26'

+52-Breather Pipe-33'

+24-PP-27'

91 7' 15'

90 7' 15'

+19-Tol. M. H. 9.3'

+72-PP-28

89 9' 13' +102-End Fe-37'

+86-Row B. E2.-44'

+33-5' Trip Elm. 35' Row/Aide Trs-41'

+20-Ent. 12' X 16' CMF-24'

+13-8' Plum Tree-34'

+103-Fe-33'

+23-PP-25'

88 9' 13'

+47-24' Man C.-37'

+40-10' B.E.-36'

+35-End F.B. Hedge-36'

11' 12' +10-E 10' Little Hedge

+88-18' B.E.-35' - E 8' Little Hedge-

+79-15' B.E.-62'

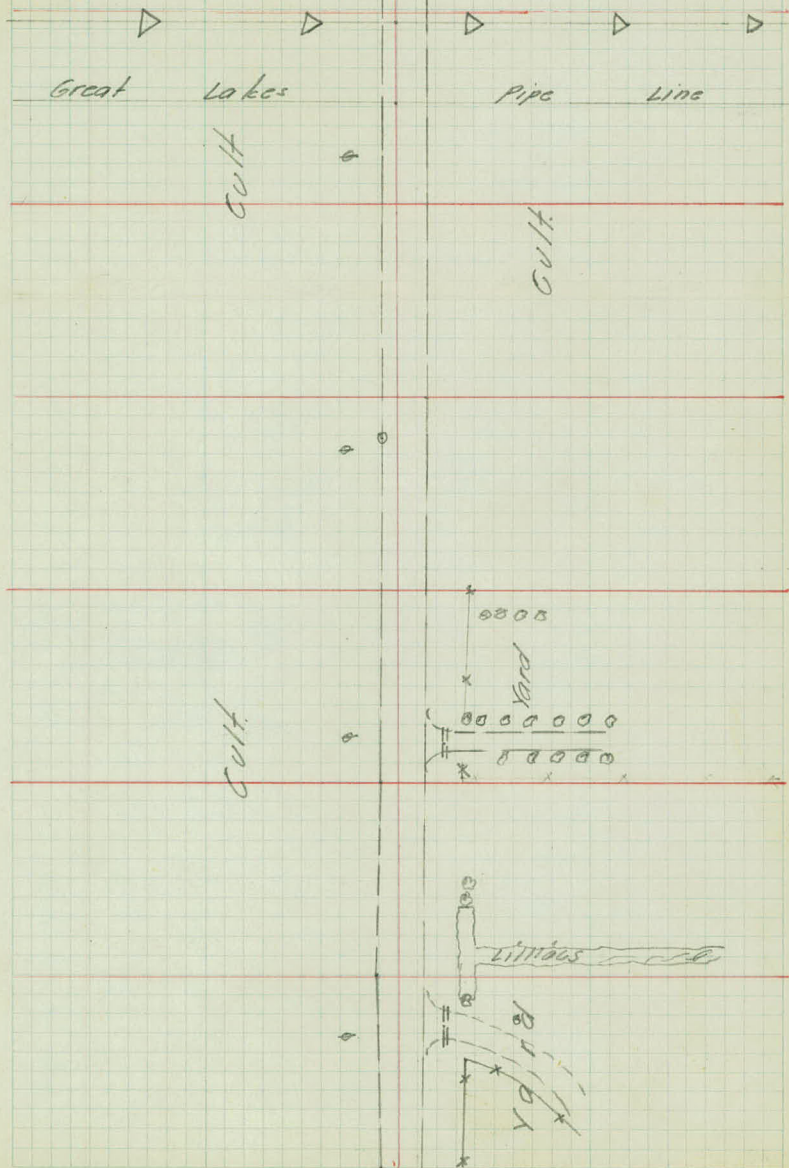
+73-Ent.- 12' X 32' CMF
23'

87

+69-PP-28'

+59-Fe Cor-35'

86 9' 12'



+91.12' E/M-19
+83-PP.-28'
+96.24" E/M-20'

+33-M.E. Cor. Ho. 58'
+30.24" E/M-20'

99
+96-24" E/M-20

9' 12' Fc.-39'

+71 Pelican Wall-26' Bldg. Blocks. 1' Hi.
+64-ENT.-12" X 20 CM-24'
+53-24" E/M-21
+46-PP.-28

98

8' 13' Fc.-39'

+77-20" E/M-19'

+41-12" Twiny Oak-35

+45-24" E/M-19'

+29.8" E/M-18'

+14-PP.-28'

97 24" E/M-18

8' 13' Fc.-39'

+25'-18" E/M-14'

+49'-10" Oak-33' X

+12'-15" Oak-32 X

96

8' 14' Fc. Cor.-39

+81'-PP.-28'

95

8' 14' Fc.-34'

+98 12" BE 37

+80 18" Oak-38

+66 18" Oak-36'

+41-18" Oak-37'

+32-PP.-28

+11-18" Oak-36

94

8' 14'

+84-24" Oak-37

+77 Fc. Cor.-32'

+63-24" Oak-38'

+50-18" Oak-36' X

+21-24" Oak-66

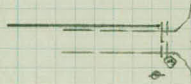
+13 ENT. 12" X 28'-23'

+04 18" Napo 44'

93

7' 14'

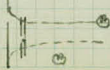
62'
2.5. 8.
38'



Cult

Pasture

Orchard



166

+05-Rad.-46'
105

+05-Edge 22' Wide Pav. +05-Rad.-48'
34' 36'

+85 So. End 24" Conc. Culv.-48'
+83-T.F.-31'

+67-Rad.-10'

+70-P.P.-28'
+68-Rad.-12'

+14-pump-36'

104
+97-15" Oak-46'

11' 10'

+78-15" Oak-35'
+70-12" Oak-50'
+64-P.P.-28'
+58-Fc.-30'

+25 End 15" Vit. Culv.-26'
+03 End 15" Vit. Culv.-28'

103

10' 9'

+65-Fc. Cor.-41'
+61-R. Tie To Fc.

+58-P.P.-28'
+56-End of Fc.-40'
+24-18" E/M.-50'

102

10' 11' Fc.-39'

+85-6" Twin E/M.-36'
+74-10" E/M.-39'
+62-6" Twin E/M.-37'
+31-P.P.-28'

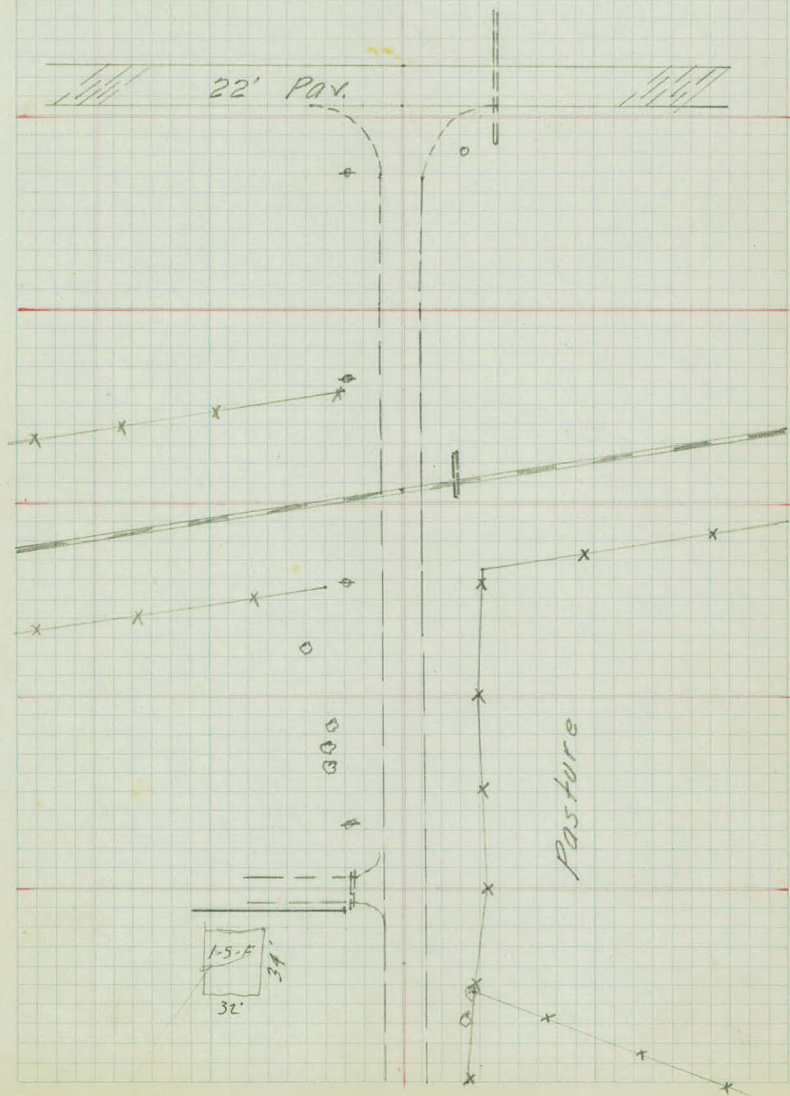
101
+98-Ext.-15" X 20" C.M.-26' 10' 12' Fc.-43'

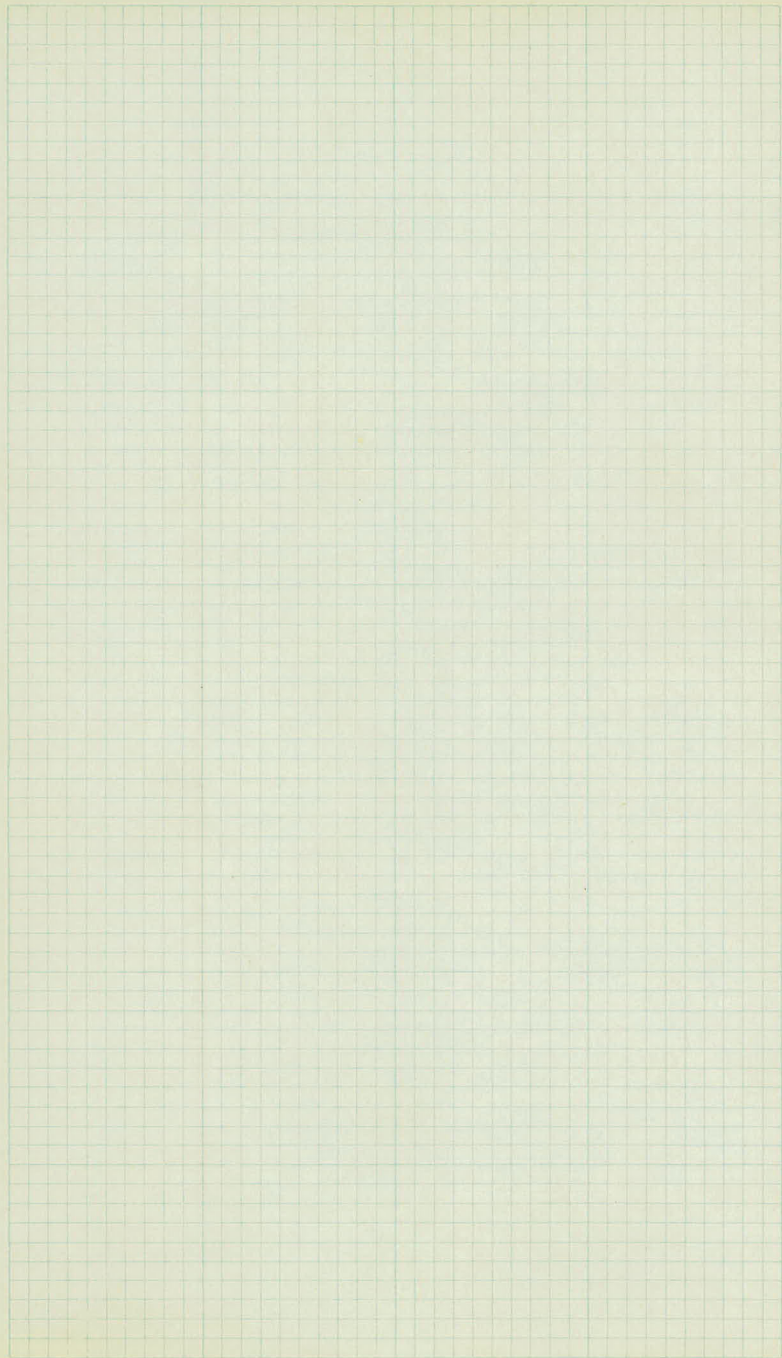
+89-2 Wide Gutter-30'
+88-Retain. Wall-1' Hi-30' Bldg. Blocks.
+77-N.E. Cor. Hd.-73'

+61-R. Tie To Fc.
+46-Fc. Cor.-37'
+46-15" Oak-36'
+34-18" Oak-32'

100

9' 12' Fc.-34'





Topography

110 Water-40' 9' 12' Fe-59'
Fe-33

+50-Fe-57'

+34-18" O-68'

109 Water-39' Fe-34' 9' 12' Fe-54 Water-80

108 Water-65' 10' 11' +04-12 Elm-55'
Fe-50'

+76-51p-33'

+90-Water-30'

107 Fe-31' 11' 11'

+70-12" Willow-53'
+58-Edge Water-25'-55'

106 +05-Bog Fe-32' 11' 10'

+93-G.P.-27'

+65-Rd-11'

+58-Fe Cor-52'

+50-End 2' Conc-47'

+45-PP-40'

+44-PP-28'

+55-Rd-12'

+27-Rd-44' 46'

+27-Edge of Pav.

105

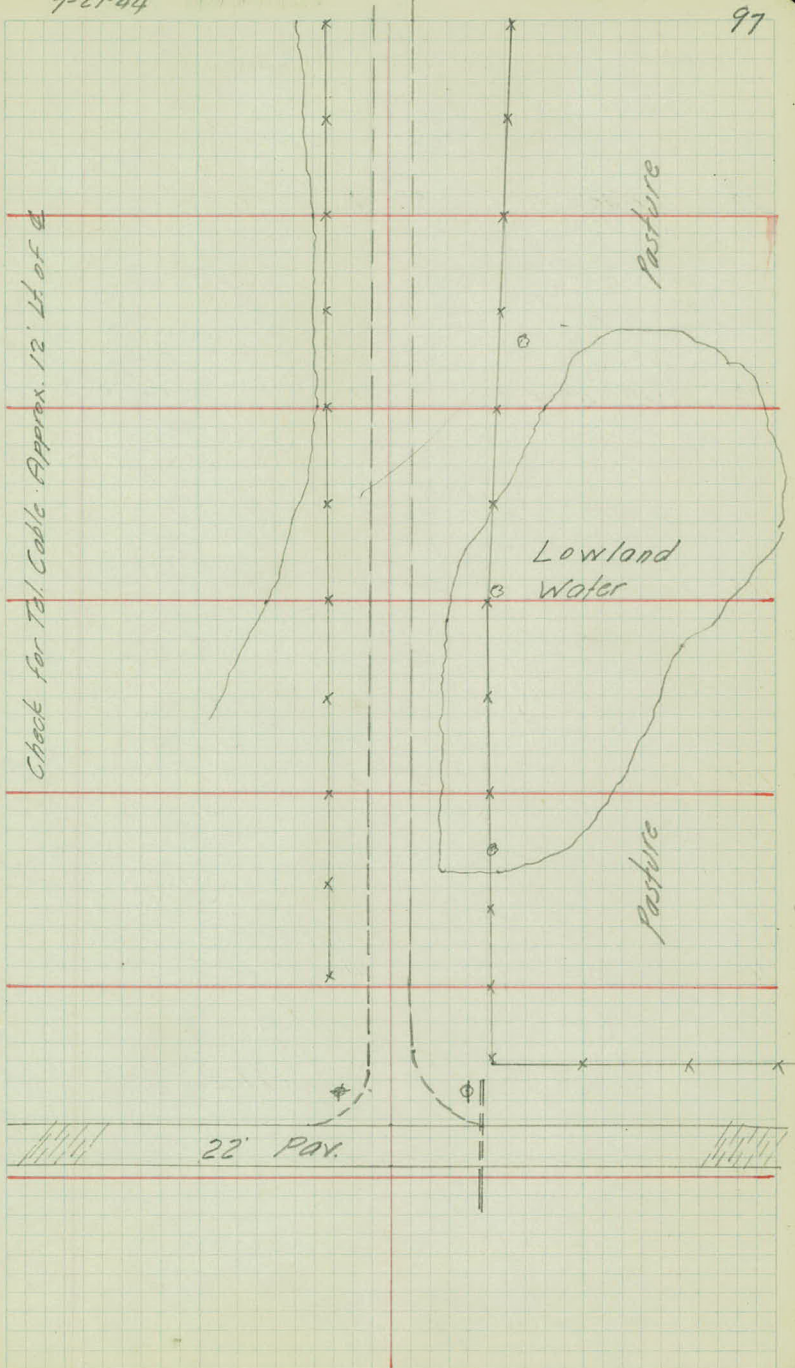
Check for Td. Cable. Approx. 12' Lt. of Φ

22' Pav.

Lowland
Water

Pasture

Pasture



Water-64'

+50-Water-65'

117 Water-40' Fe-31' 9' 11' Fe-56'

+60-Water-30'

116 Fe-30' Water-22' 9' 11' +04-24" Cott.-61' Fe-54'

+50-Water 13'-20' +65-Water-50'

115 Water-00
9' 11'

+28-24"X42"CM-XDrain 24' 18'

114 9' 11'

+65-Water-00

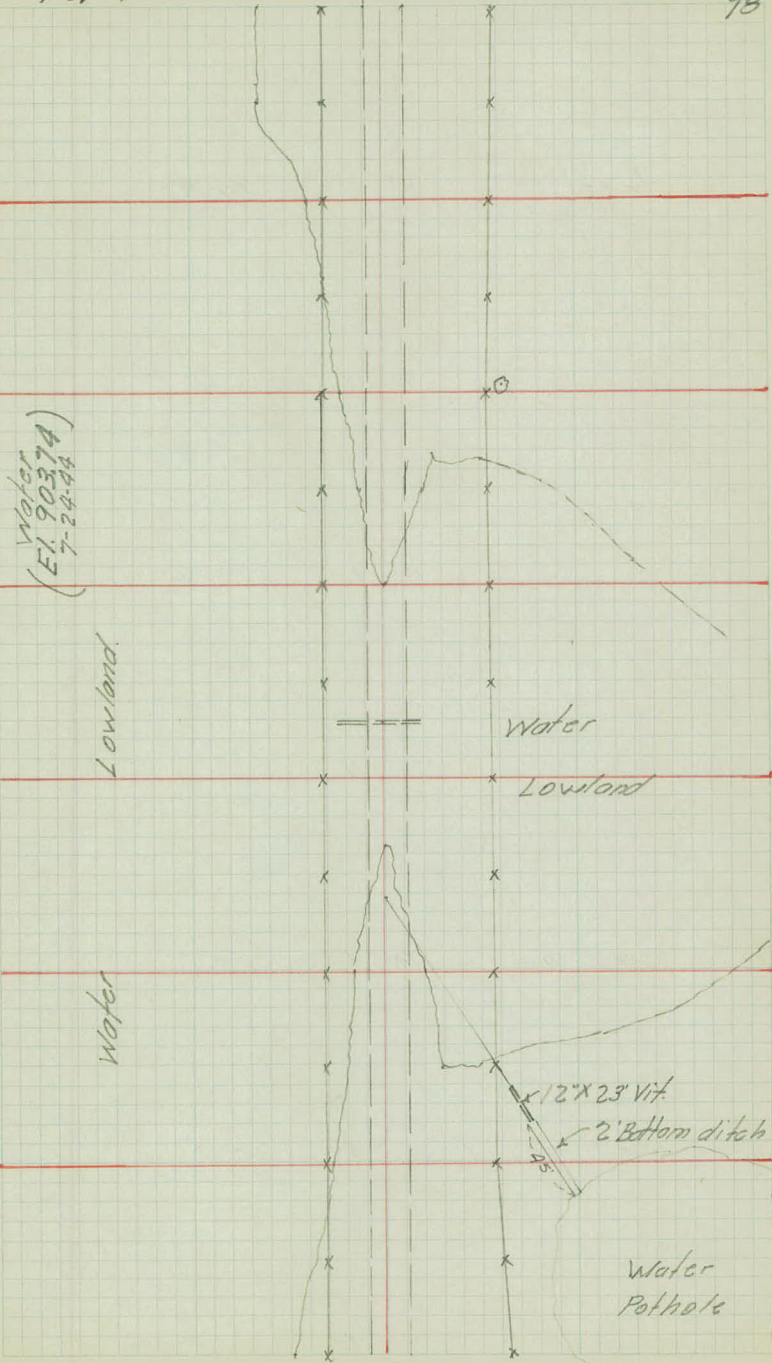
+38-Range Tie to 12" Vit.

113 Water-46' 10' 11' Water-20'

+48-Water-29'-50'
+39-End 12" V.X.-65'

112 Fe-33' Water-28' 9' 11' Fe-56'

111 Water-49 Fe-33' 9' 12' Fe-63'



1' X 6' Conc. H.V.V.
+92-End 21' Vit-33'
+85-Fc Cor-35'
+82-Range Tie

+55-Water-45'
+60-Fc Cor-45'
+50-Water-23'

+35-Water-21'
+27-Ent

+18-Range Tie to Fc.

124 Fc-35'

9' 12' Fc-58'

123

9' 11' Fc-61'

+71-24°O-58'
+63-15°O-47'

+41-Range Tie to Fc Cor
+37-Fc Cor-36-33

122 Water-80'

10' 10' Fc-55'

+54-Beg. 21' Vit-115'
+50-Water-37'

121 Fc-33' Water-28' 10' 11'

120 Fc-33' Water-26' 9' 11' Fc-50

119 Water-35' Fc-31' 9' 11' Fc-51'

+66-12°O-59'

118 Fc-31'

9' 11'

Fc-56'

7-22-44

Burried

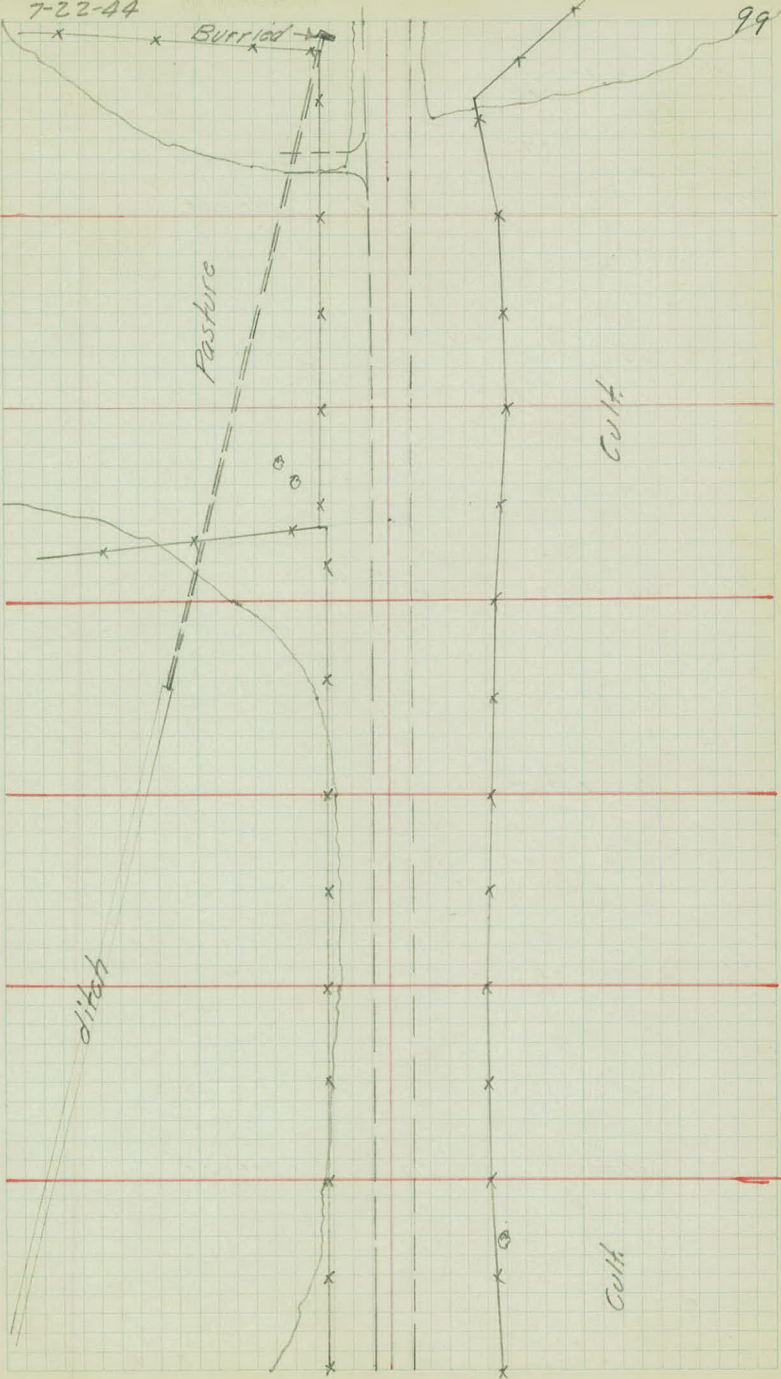
99

Pasture

Cult

ditch

Cult



+74-End 24" Conc Culv - 47'
+63-Road 31' - 32'

+40-Road 34' = 28'
+27-End 24" Conc Culv - 47' +25-PP - 26'
131 11' 11' Water - 0.3'

130 Water + Bl. Top = 11' x 11'

129 Water + Bl. Top = 10' x 11'

128 Water + Bl. Top 11' x 12'

127 Water + Bl. Top - 10' x 12'

+38-24" X 50' C.M. X Drain - 25' 25'
+35-End X Drain - 26'

126 Water - 15' 11' 12' Water - 15'

+61-End X Drain - 19'

125 Water - 18' 12' 12' Water - 19'

Co. Rd.

"C₂"El water 903.67
(17-24-44)

WILSON

LAKE

ditch

86" X Drain Ends Buried

+82-Water-18' Fc.-33'

138 Water-16' 9' 12' Water-16'

+49-PP-

137 Water-13' 9' 11' Water-16'

136 45' Water + Rd-9' 12' Rd+Water-

+51-Ent- $\frac{15' \times 20' \times 7}{22'}$

+60-PP-

135 Water-7'-33 11' 12' = Water

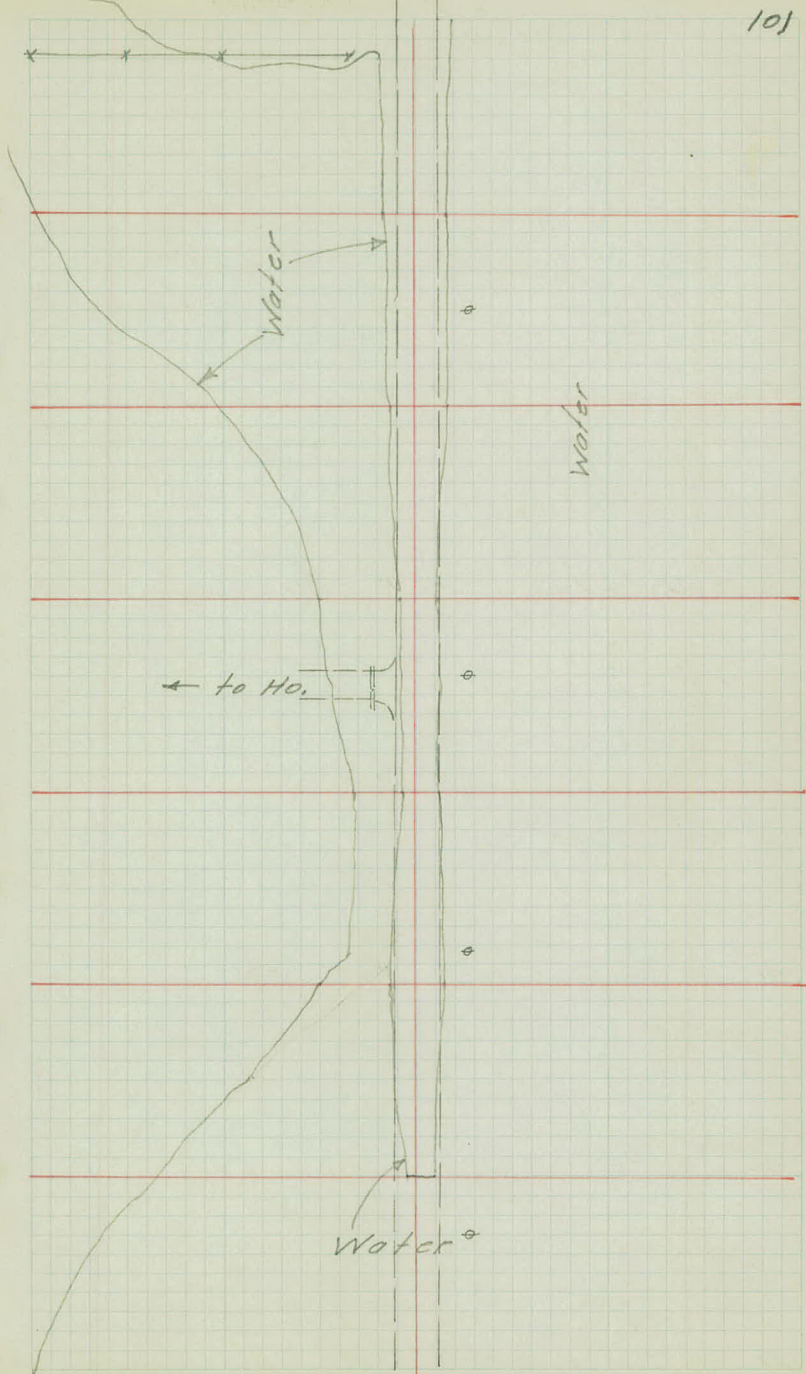
+16-PP-26'

134⁺ Water-14'-50 11' 14' = Rd + Water

133 Water-5' Water-8'

+70-PP-26'

132 11' 11'



2 Water pipe X Rod at sta.
1' below surface.

8" Elm-41'

+86-PP-28'
+84-8" Elm-40'
+72-Ent $\frac{15 \times 20 \text{ CM}}{21}$
+59-12" Tr. Rp-52'

145 Fe-33'

10' 10'

+77-18" O.-45'
+64-15" O.-42'
+48-18" O.-46'
+20- $\frac{15 \times 20 \text{ CM}}{22}$
+09-24" O.-42'

144

10'

+64-Fe-34'
+45-Ent $\frac{15 \times 20 \text{ CM}}{22}$
+33-6" Elm-40'-22'
+29-N.E. Cor. Ho.-100' W

143 +21-Range Tie

11'

+72-Hedge-38'
+60-10" Elm-41'
+53-PP-29'

+38-Ent

+18-3" Pine-39'

+83-S.W. Cor. Ho.-83'

+77-3" Pine-38'

+65-Ent $\frac{15 \times 20 \text{ CM}}{22}$

+54-3" Elm-39'

+11-PP-28'

+73-6" Tree-36'

+66-Bog Metal Fe-33'

Drain From Cess pool

+17-4" Tie-28'

+12-S.E. Cor. Ho.-98'

142 +94-Ent $\frac{15 \times 20 \text{ CM}}{21}$

10'

+55-12.5" Willows-45'

+40-Ent $\frac{15 \times 30 \text{ CM}}{24}$

+14-S.W. Cor. Ho.-84'

+09-10" Elm-42'-Row

+91-Ent $\frac{10 \times 10 \text{ CM}}{24}$ = Burned

+74-PP-28'

+40-S.E. Cor. Ho.-92'

+32-Fe-31'

+12-Ent $\frac{15 \times 20 \text{ CM}}{20}$

141

10'

+58-3" Elm-41'

+45-3" Elm-42'

6" Elm-43'

+39-18" O.-46'

140

+92-Ent $\frac{15 \times 20 \text{ CM}}{23}$

+84-3" Elm-39'

10'

+79-6" Elm-43'

+58-S.W. Cor. Ho.-87'

+66-6" Elm-43'

+56-PP-28'

+30-Range Tie

+10-E Ent-62' R

+46-S.E. Cor. Ho.-106'

+30-3" Elm-39'

+31-PP-28'

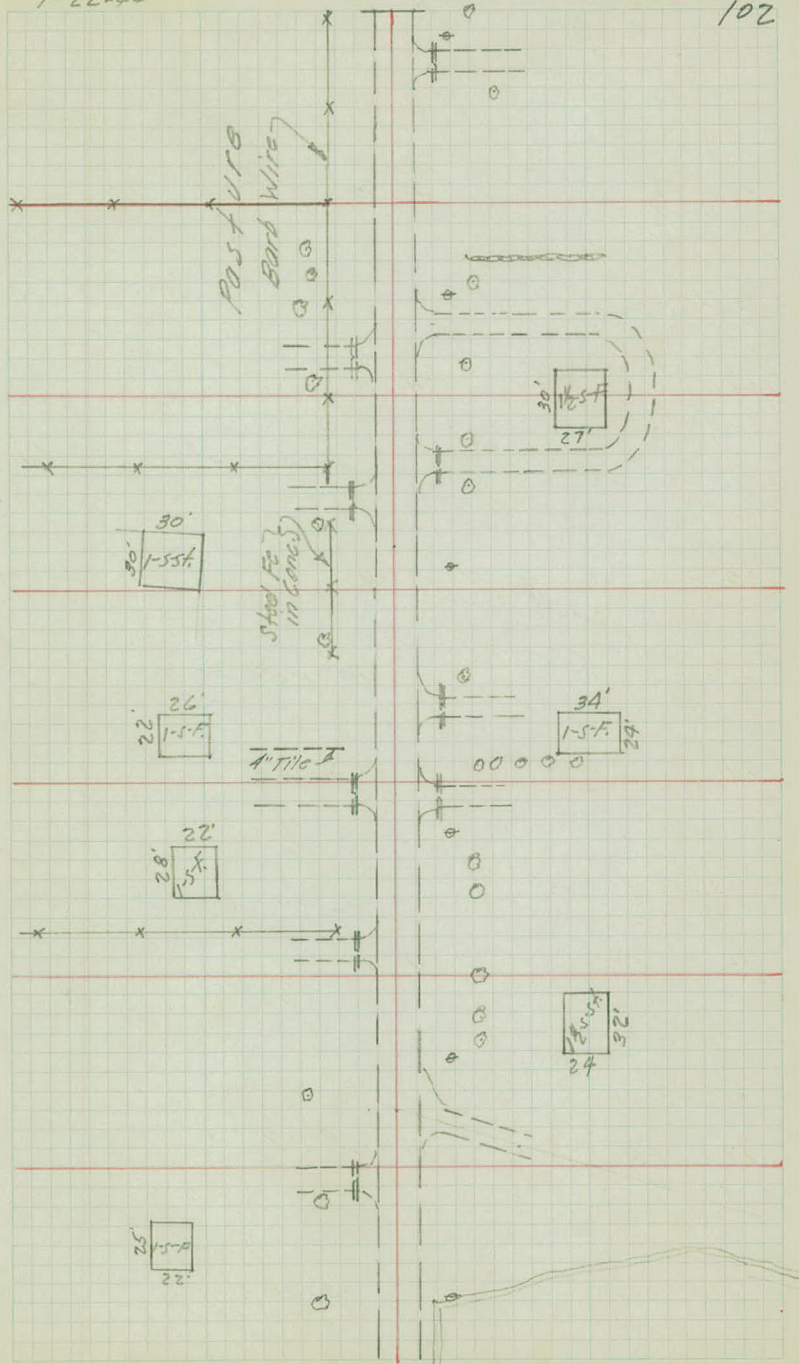
+30-Water-19'

139

10'

12'

Water-19'



Fe.-33'

11' 10'

Fe.-30'

152

+99-Fe Cor.-33'
+90-Ent

11' 10'

Fe.-30'

+93-P.P.-28'

+45-S.E. Cor Ho.-91'

151

+81-Fe Cor.-35
+73-Ent

10 10

Fe.-30'

+67-P.P.-28'

150

11' 10'

Fe.-30'

+33-Ent-

+57-P.P.-

149

11' 10'

Fe.-30'

+42-Fe Cor.-35'

+36-P.P.-28'

148

Fe.-

11' 10'

+95-Fe Cor.-33'

147

Fe.-33'

11' 10'

+06-P.P.-28'

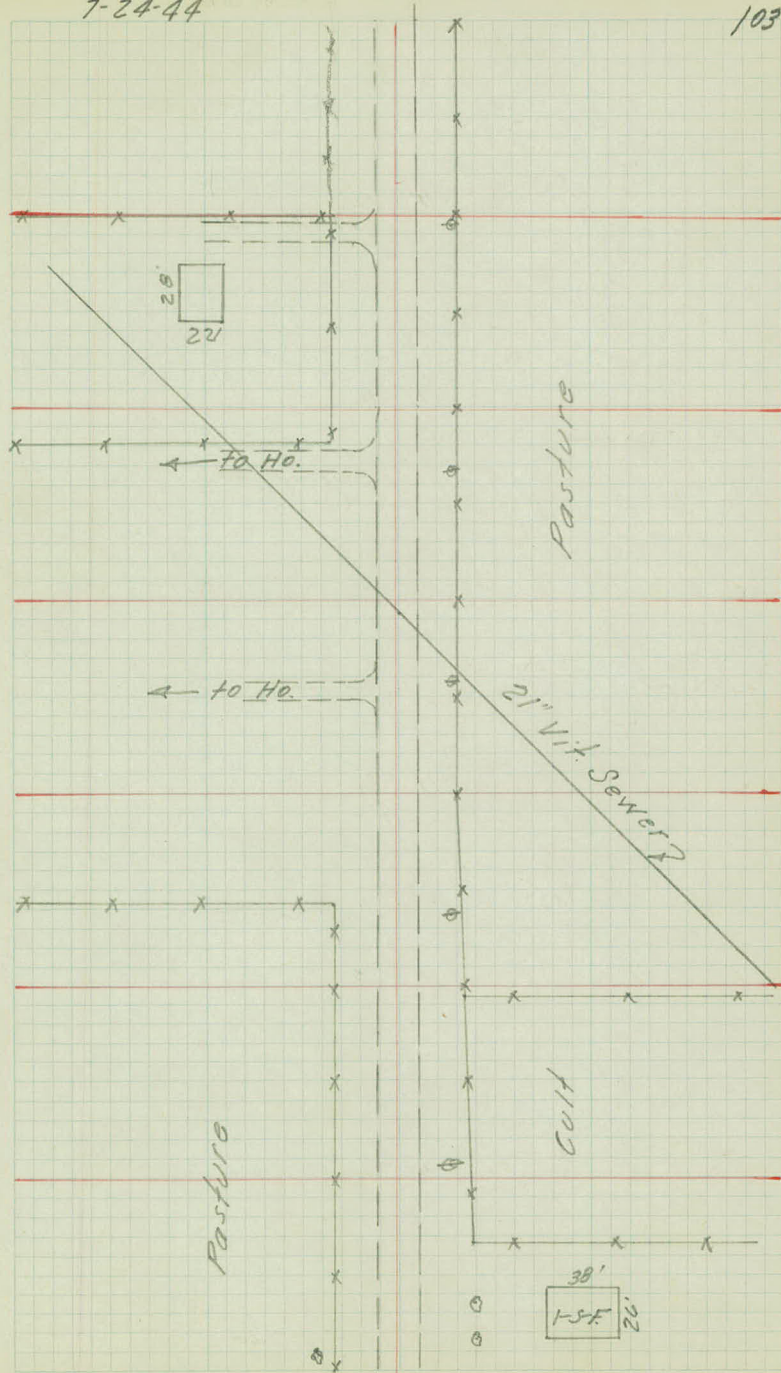
+67-Fe Cor.-33'

146

+08-18'-91'
Fe.-33'

10' 11'

+33-10" Elm.-40'
+17-S.W. Cor Ho.-77'
+14-5" Elm.-40'



+52-S.E. Cor Bldg-79'

+2A-PP-34'

159

11'

12'

+97-PP-28'

+82-18"O.-41'

+14-18"O.-34'

+107-Ent-15"X20'G.M.

158 Hedge-33' 22'

11'

11'

+92-PP-30'

+52-C.E/m-35'

+40-Ent-12"X20'G.M.-22'

+19-10"Elm-35'

+16-Cor Hedge-28'

+88-10"Elm-35'

+56-12"Elm-35'

+52-PP Hedge-28'

+23-12"Elm-35'

+53-24"O.-31'

+32'-Ent-15"X20'G.M.
22'

157

11'

10'

15" B.E.-37'

+95-Ent. Rubble Wall-24'

+89-15"X20'G.M.-23' 1"X7" Rubble
N.W.

+79-15"Elm-35'

+44-Bow 15"Elm-34'

+43-Rubble Wall-18"-24'

+41-2" Conc Wall-244'

+30-Ent-15"X20'G.M.-23'

+18-2" Conc Wall-25'

+10-Fc Cor-28' +15-PP-28'

+81-Fc-33'

+50-2"Elm-38'

+30-2"Elm-39'

156

11'

10'

+94-3"Elm-35'

+76-Ent 15"X24'G.M.
22'

+64-30"O.-47' Fc-50'

+45-Ent 18"X20'G.M.
22'

+53-Fc Cor-28'-75'

+32-Ent-12"X20'G.M.
22'

155

11'

9'

+15-Fc Cor-30'

+42-Fc Cor-34'

+33-PP-43'

+63-PP-28'

154

11'

9'

Fc-30'

153

11'

10'

+10-PP-28'

38'
25-55'
36'

Uncult.

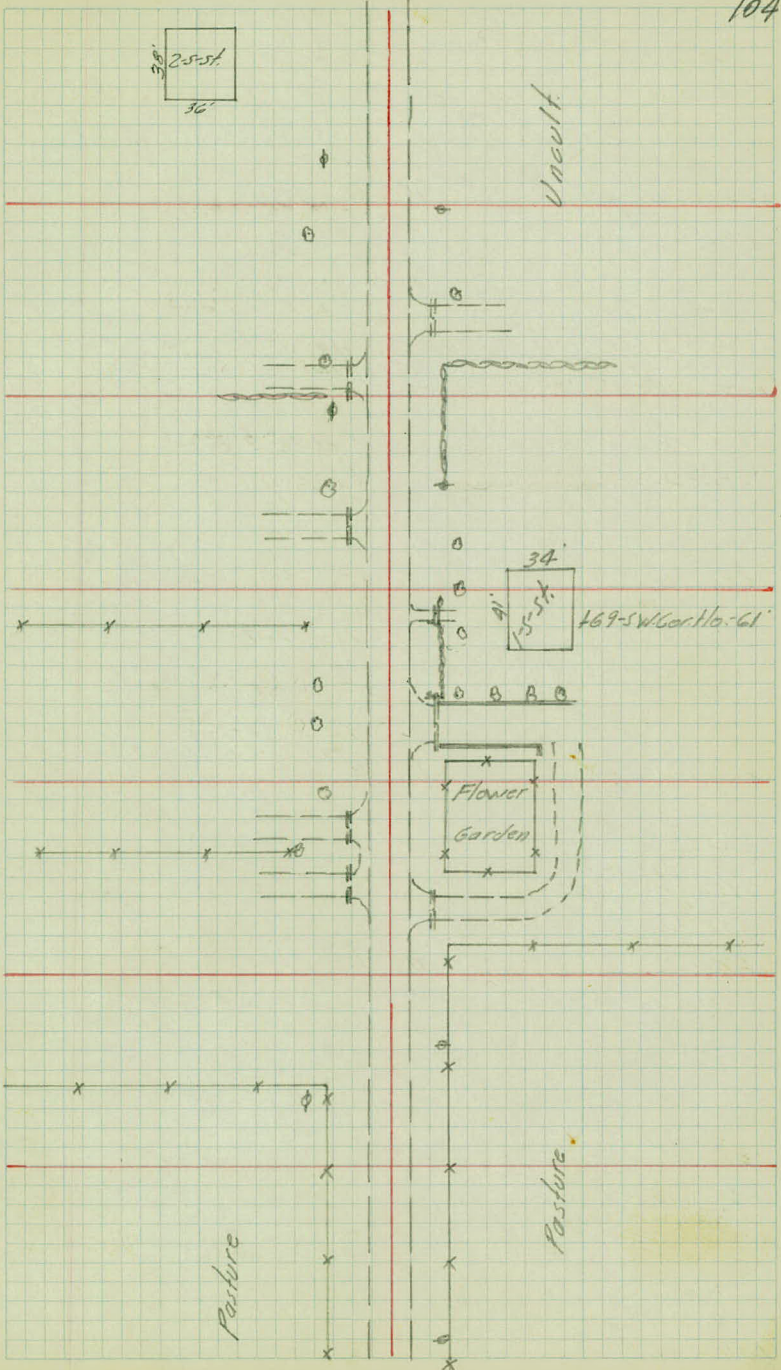
34'
15-55'

169-SW Cor. 110-61

Flower
Garden

Pasture

Pasture



166 Fe-32' 11' 10'

+91-T.P.-23'

165 Fe-32'

12' 10'

+118 } Leg of steel Tower - 34'
+115 } - 42'

+57-T.P.-23'

+51-High Line X 5 1/2

+86-2" H" Pole-58'

+76-T.P.-33'

+21-T.P. X 5 1/2

164 Fe+Water-31'

12' 10'

+92-High Line X 5 1/2

163 Water +T.P.-25'
Fe-30'

11' 10'

+22-Pole T.P.
+01-End 4" T.P.-27'

+65-Pol/hole-38'

+45-Pol/hole-100'

+23-2" H" Pole-100'

162 Fe-29'

11' 10'

+82-T.P.-28'

161 +14-Dim Fe-29'

12'

+27-G.R.-27'
+10-End-11'

+83-Dim Fe-57'
+73-72' M.H.-13'

+71-Pd.-52'

+54-M.H.-213'
+71-Pd.-50'

+90-18" D.-47'

+50-Pd.-50'

+50-Pd.-62'

+25-Pd.-12'

+24-PP-28'

+35-PP-52'

160

11' 12'

6" Tile
4" Tile

Pasture

Uncult.

Pothole
(Water)

V. Pit

3-Wires

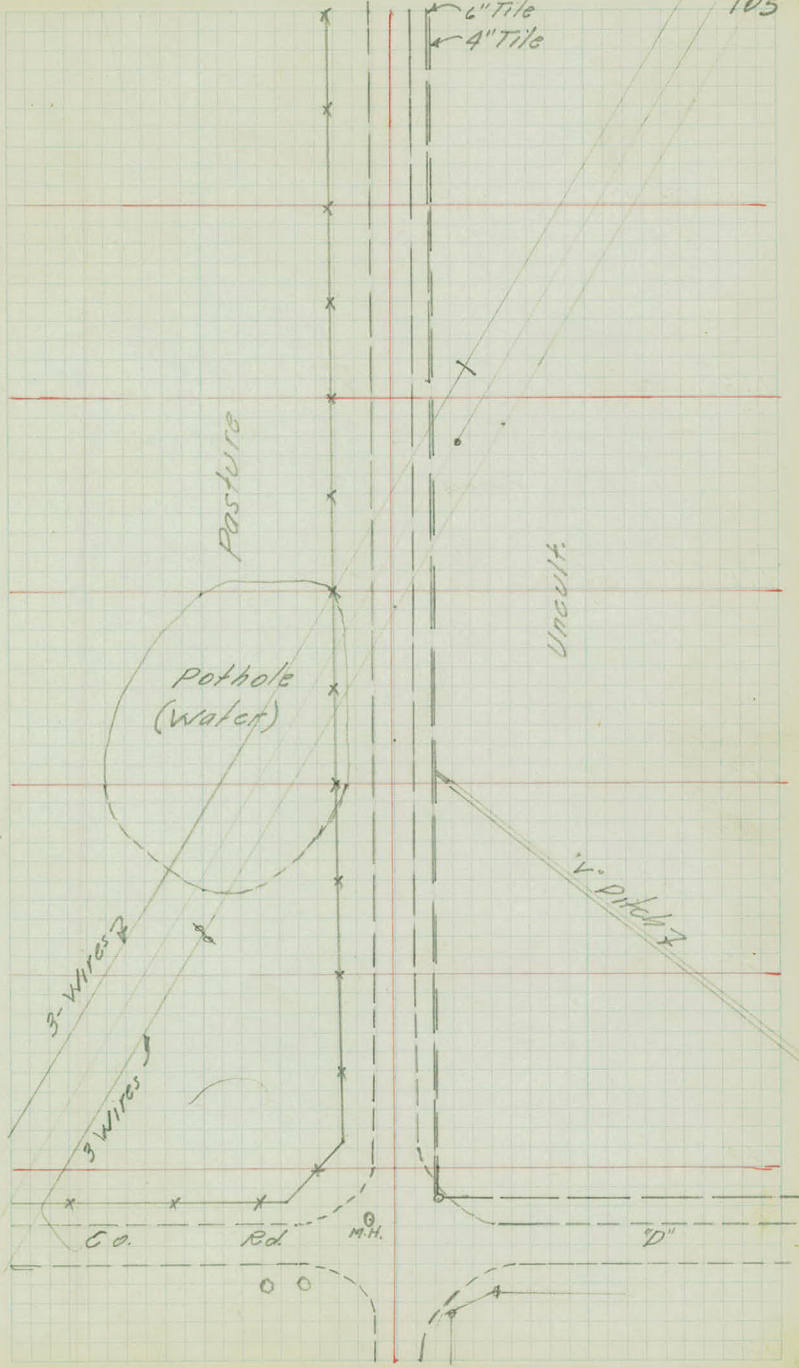
3 Wires

Co.

Rd.

M.H.

"D"



+73-Fc Cor-34'

+41-T.P-24'

173 Lowland-25' 12' 9' Water-22'

+09-T.P-23'

172 Water-25' Fc 12' 9' Water-19'

+78-24"X52" CIP X Drain - 26' 26'

171 Water-26' 12' 10' Water-19'
Fc-36

+94-Range Tie
+78-Beg Ditch-100'

+54-T.P-23'

+20-Lowland-36'

170 Fc-34' 12' 10' Water-30'

+25-Lowland-22'

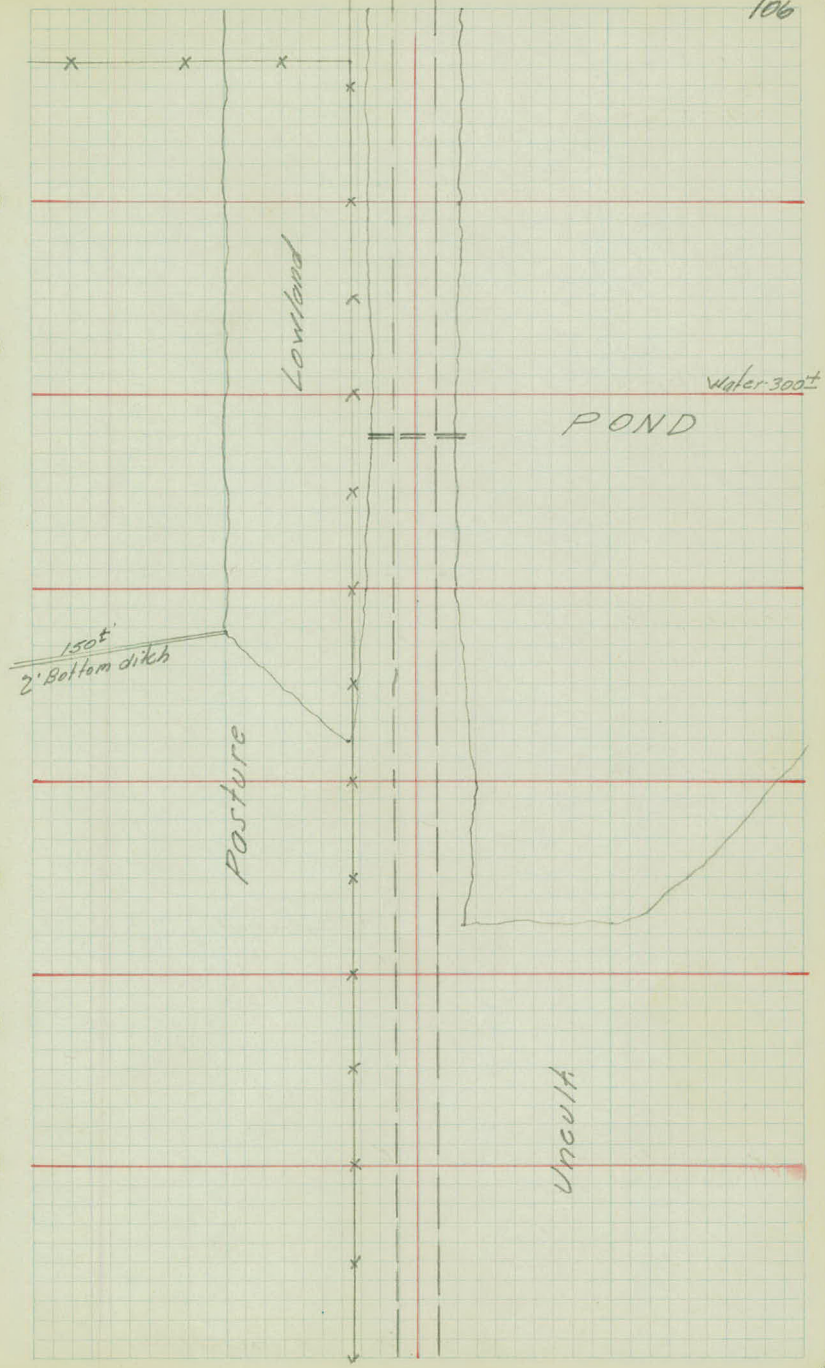
169 11' 10'

+73-T.P-23'

168 Fc-33' 11' 10'

+35-T.P-23'

167 11' 10' End 6" Long. culv-19'
End 4" Long. Culv-20'



+80-10' Coll-22'

+74-T.P.-26'

+64-8" Coll-42

+48-15' Coll-42

180 +11-Ent / $\frac{15^{\circ} \text{A20'CN}}{25^{\circ}}$

11' 9'

+75-Fe. Cor-34'

+25-Range Tie

179 +17-T.P.-25'
Fe-34'

10 9 +20-Fe. Cor-32'

+06-Fe. Cor-36'

178

11' 8'

+88-T.P.-24'

177 Fe-34'

11' 9'

+82-T.P.-24'

+25-Lowland-30'

176 Fe-34'

12' 9'

175 Lowland + Fe-35 12' 9'

Water-27'

+86-T.P.-24'

174

11' 10'

Water-24

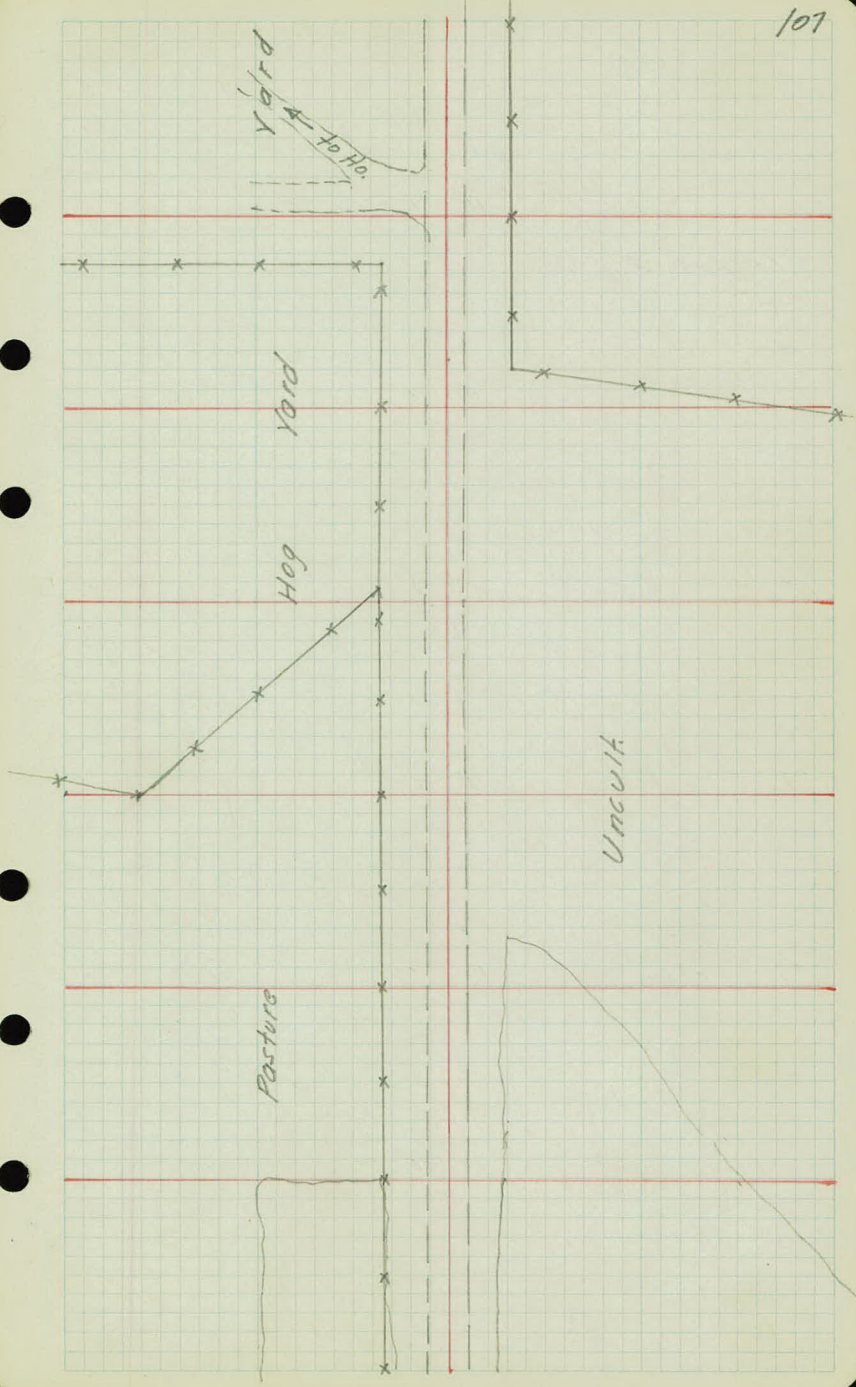
Yard
to Ho.

Yard

Hog

Pasture

Uncult



+98-Ent.

10' 11'

+74-Fc Cor.-33'

+75-E 20' Road

186

10' 10'

+77-T.P.-27'

+31-Fc Cor.-32'

185

10' 11'

+65-Fc Cor.-32'

+63-Fc Cor.-31'

+39-T.P.-26'

+48-8" Oak-36'

184 Fc-32

11' 10'

+06-Beg. Fc-32

183 T.P.-26'

11' 10'

Fc-33'

+14-12" x 20' Dredge Pipe
21'

182

10' 10'

+60-T.P.-25'

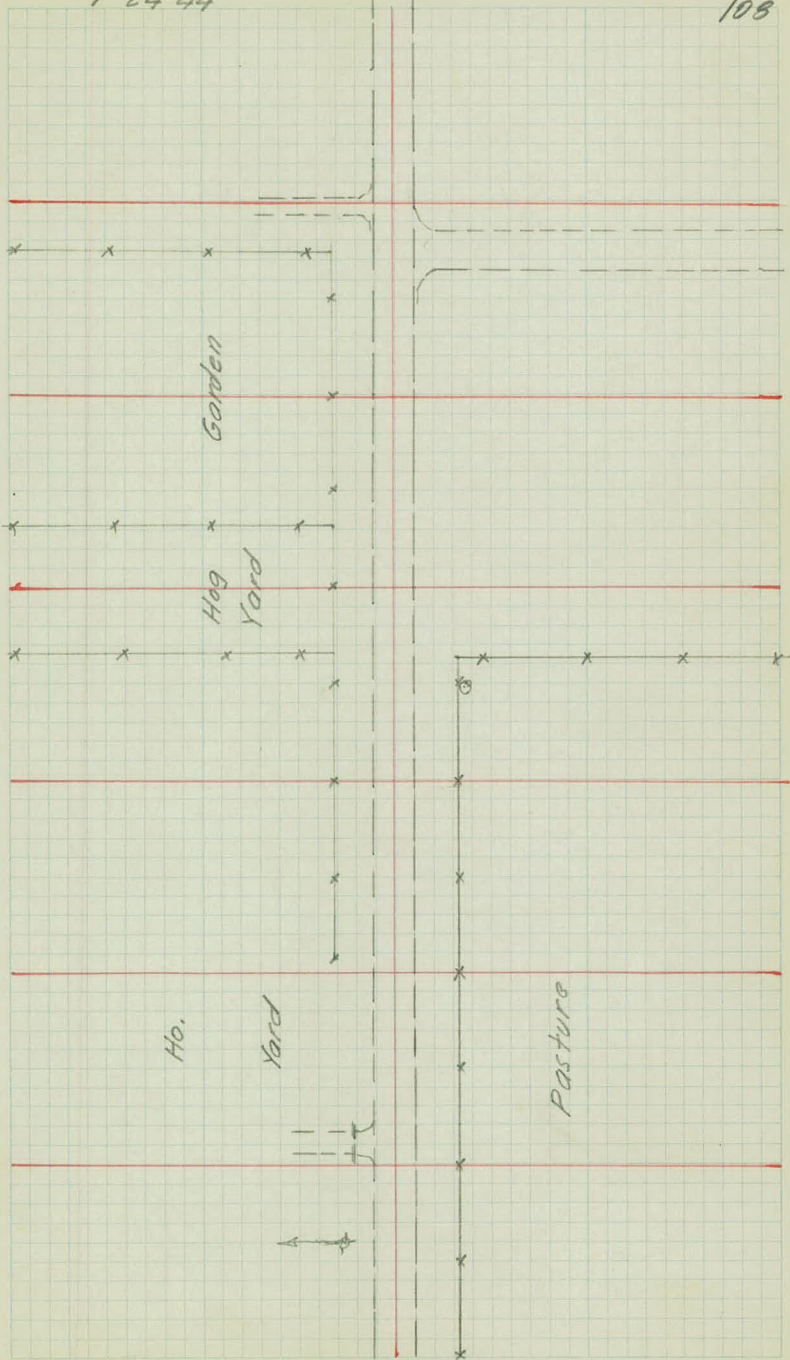
181

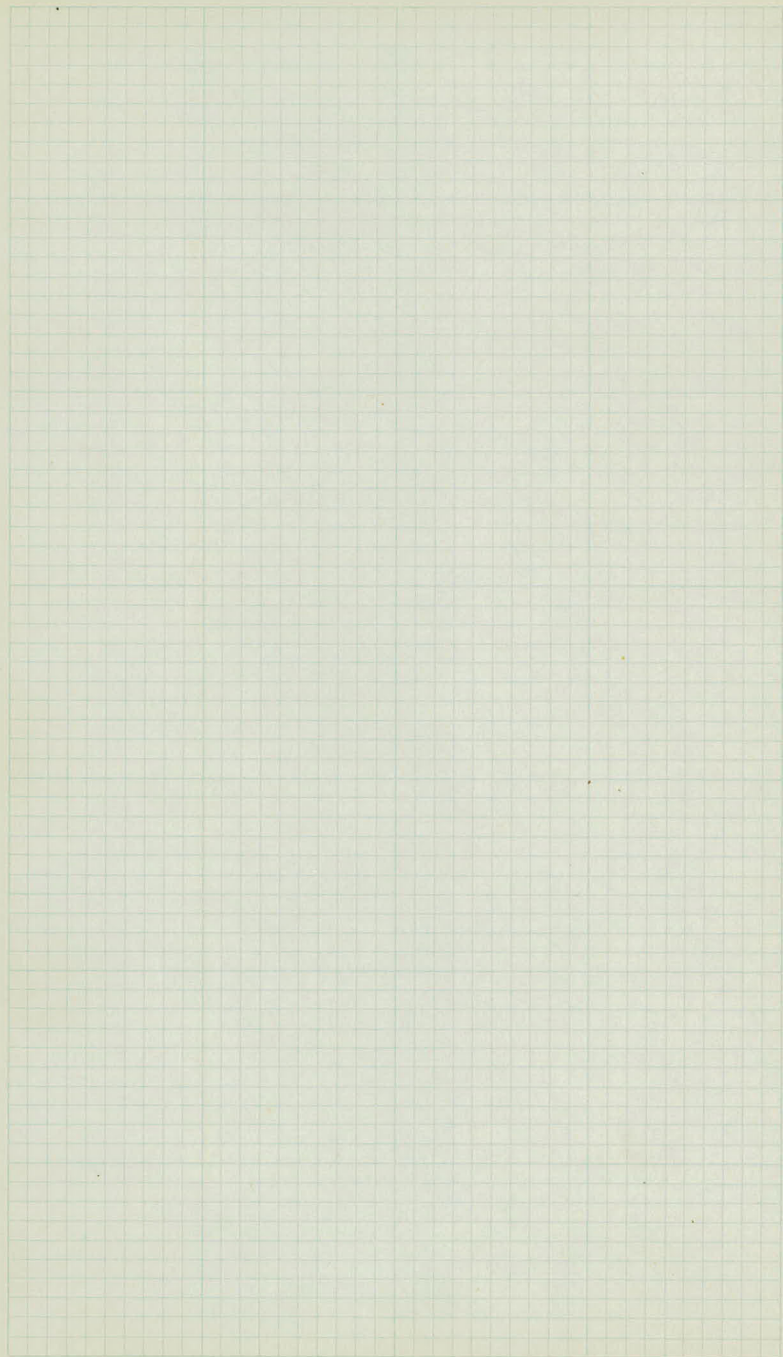
11' 10'

Fc-34'

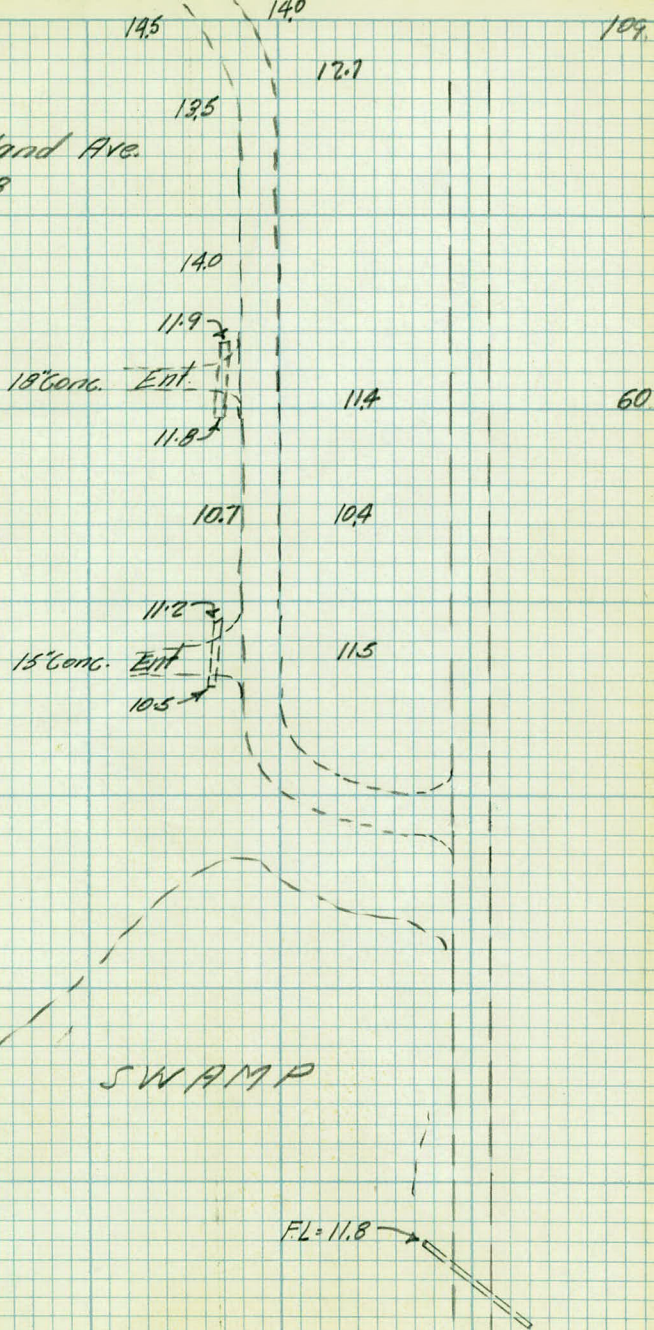
7-24-44

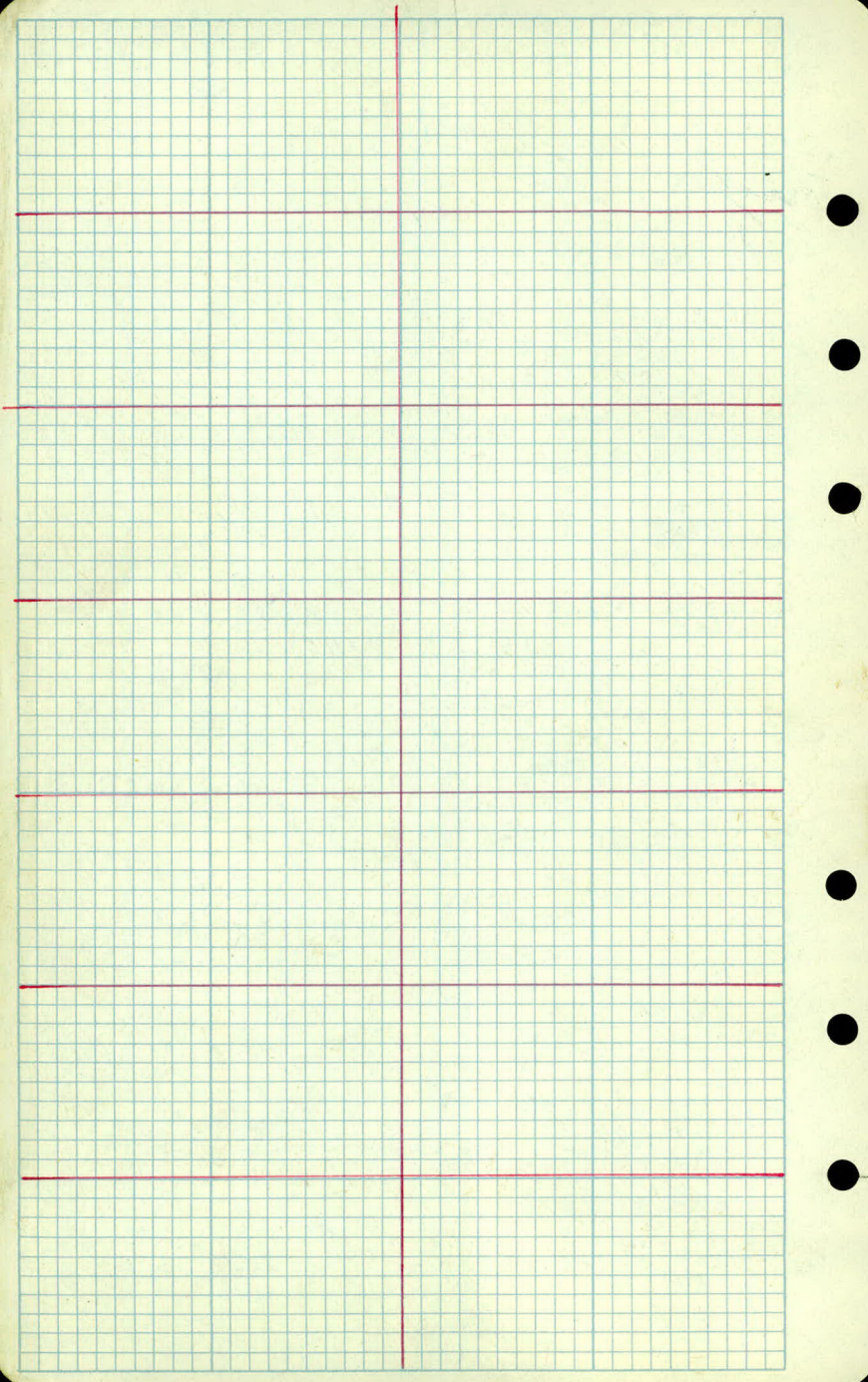
108





Cleveland Ave.
6-4-48





Stadia
Cleveland Ave.

Object	Azimuth	Dist.	Rod	Elev.
--------	---------	-------	-----	-------

H.I. =

At sta 45		H.I.	5.30	
-----------	--	------	------	--

To sta 50 = 0°00'

Edge Pothole	326°15'	206'		
-----------------	---------	------	--	--

"	304°30'	243'		
---	---------	------	--	--

"	286°—	235'		
---	-------	------	--	--

"	277°45'	180'		
---	---------	------	--	--

"	230°15'	194'		
---	---------	------	--	--

"	201°30'	232'		
---	---------	------	--	--

"	196°30'	266'		
---	---------	------	--	--

"	225°—	368'		
---	-------	------	--	--

"	214°30'	525'		
---	---------	------	--	--

"	203°15'	505'		
---	---------	------	--	--

"	194°30'	366'		
---	---------	------	--	--

Beg. 6 5'

B&H. Ditch	56°30'	130'	11.9	
------------	--------	------	------	--

End 5'

B&H	69°—	338'	12.0	
-----	------	------	------	--

At sta 57			5.35	
-----------	--	--	------	--

To sta 65 0°00'

F.L. 28° C.M

Under Co. Rd "B"	154°30'	458'	10.8	
------------------	---------	------	------	--

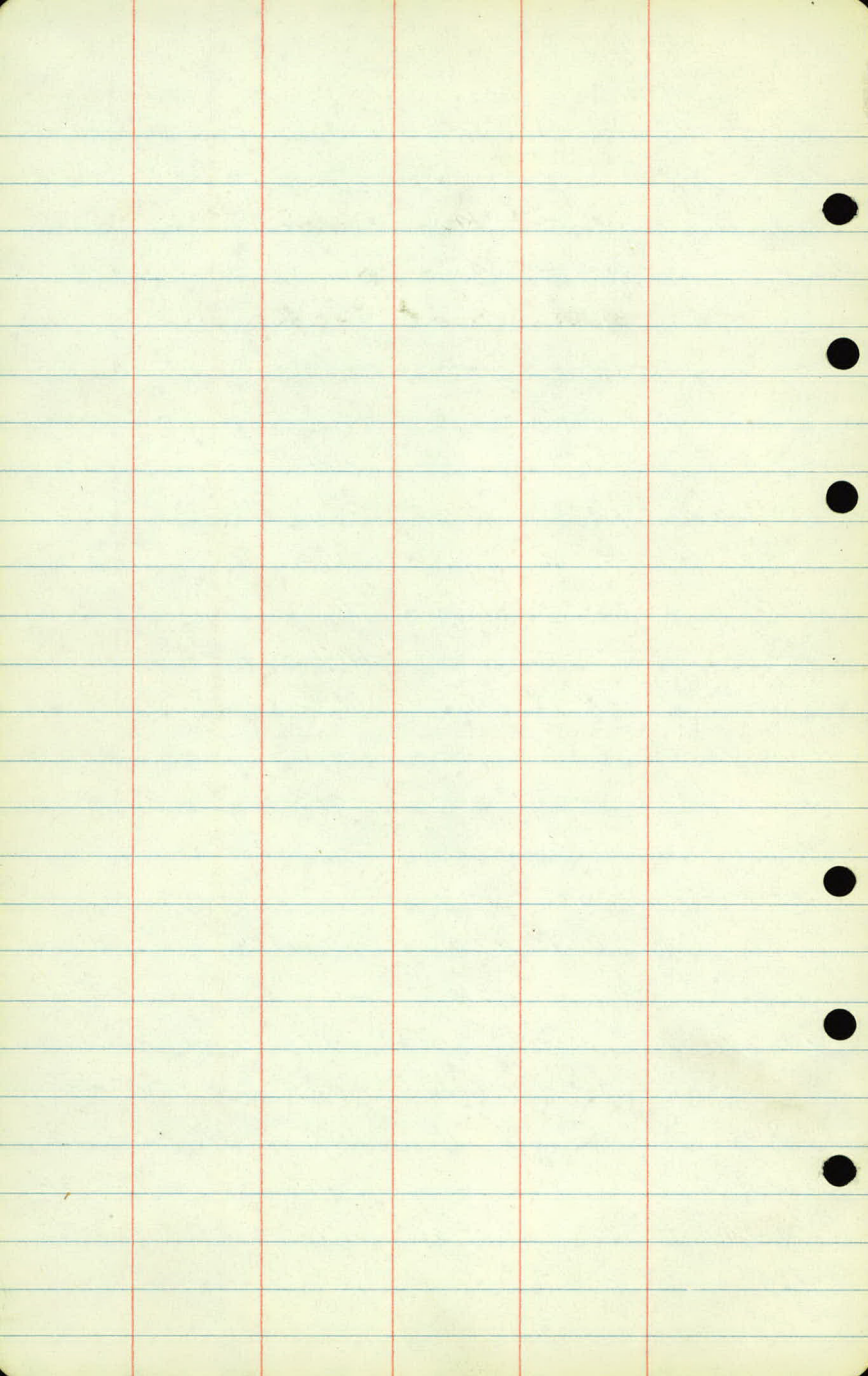
& Ditch	153°30'	395'	10.6	
---------	---------	------	------	--

" "	154°30'	295'	10.8	
-----	---------	------	------	--

Edge Swamp	117°—	197'		
---------------	-------	------	--	--

"	223°—	354'		
---	-------	------	--	--

Object	Azimuth	Dist.	Bed	Elev.	Vert Ang.
Edge Swamp	230°—	442'			
"	240°—	483'			
"	241°—	342'			
"	256°—	272'			
"	269°45'	228'			
E Ditch & Edge Swamp	284°30'	130'	11.4		
Rd E Ditch	306°—	160'	11.4		
" "	331°45'	298'	11.5		
" "	338°—	368'	11.9		
FL. 18" C.M. E Rd. Ditch	341°30'	430'	12.7		
FL. 18" C.M. " "	342°15'	450'	12.75		
At sta. 63			5.15		
To sta. 65	0°00'				
E Rd.	264°45'	146'	12.2		
" "	282°45'	245'	15.2		
" "	286°30'	382'	5.15		-2°18'
E Rd. ditch	263°30'	160'	13.7		
" " "	277°30'	249'	5.15		-2°52'
" " "	288°45'	241'	5.15		-2°57'
Nat. Ground	283°30'	438'	5.15		-2°36'
S. End culv. under Road 24" C.M.	286°15'	595'	5.15		-2°23'



Stadia

7-24-44

Sta.	Azimuth	Dist.	Pod	Elev.
At-113				
To-160	0°00'			
Edge Water.	186°30'	480'		
"	350°45'	930'		
"	343°30'	970'		
"	196°15'	760'		
"	336°—	985'		
"	208°—	840'		
"	327°15'	980'		
"	225°—	1030'		
"	317°—	935'		
"	232°30'	1000'		
"	309°—	850'		
"	240°30'	1040'		
"	297°—	825'		
"	253°30'	940'		
"	289°—	715'		
"	277°—	705'		
"	260°45'	750'		
"	269°30'	735'		
"	21°30'	250'		
"	51°—	202'		
"	77°—	130'		
"	117°—	76'		

Sta.	Azimuth	Dist.	Rod	Elev.
At - 134				
To - 160	0°00'			
Edge Water	174°45'	925'		
"	188°—	965'		
"	196°30'	890'		
"	161°—	785'		
"	206°30'	725'		
"	216°—	685'		
"	151°—	745'		
"	229°—	600'		
"	137°30'	720'		
"	229°—	425'		
"	230°—	333'		
"	122°30'	650'		
"	245°	238'		
"	263°—	132'		
"	108°30'	620'		
"	90°—	640'		
"	343°—	255'		
"	71°—	595'		
"	326°—	408'		
"	53°—	560'		
"	332°—	542'		
"	38°—	558'		
"	(cont.)			

7-24-44

Sta.	Azimuth	Dist	Red	Elev.
------	---------	------	-----	-------

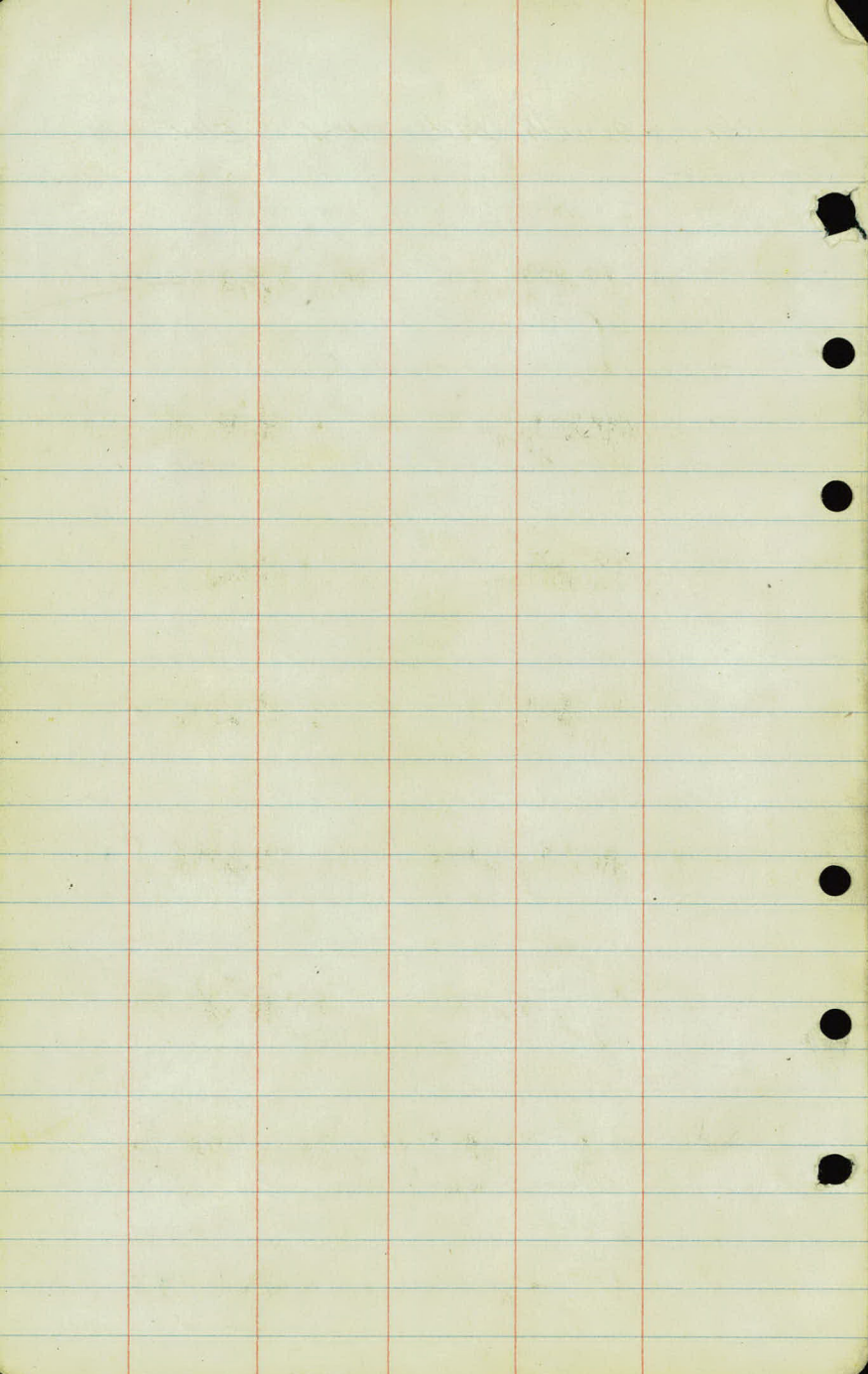
Edge Water	32°30'	610'		
---------------	--------	------	--	--

"	337°30'	615'		
---	---------	------	--	--

"	346°30'	545		
---	---------	-----	--	--

"	13°30'	580'		
---	--------	------	--	--

Sta	Azimuth	Dist	Rod	Elev.
-----	---------	------	-----	-------



Cleveland Ave.

Borings

9-12-44

Sta 24+00 16' Rt

Feet	Material
0-3'	Mixed fill Material
3'-5'	Red clay
5'	Natural ground
5'-5.5'	Black Loam
5.5-9.5 down	Sandy Clay

Sta. 24+50 15' Rt

0-3'	Mixed Fill material
3-5	Red clay
5-6	Black loam nat. graded
6-10	Sandy clay

Sta. 25+00 16' Rt

0-3	Mixed fill material
3-6	Sandy clay
6-7.5	Black loam
7.5-10	Blue clay

Bad spot From 23+50 to 24+00

Sta. 43+00

18' Lt.

Feet

Material

0-0.5

Fill material

0.5-5

clay

5-5.5

Black loam

5.5-7.0

sandy clay

7.0-8.0

peat

8-9

Black loam

Sta 43+50

20' Lt

0-5'

clay

5'-5.5'

Black loam

5.5-9.0

Peet

9-10.5

clay

Sta. 44+00

20' Lt

0-6

clay

6-8.5

Peet

8.5-10.5

clay

9-14-44

Sta 44+50	20' Lt.
Feet	Material
0-2	Mixed fill material
2-6	clay
6-9.5	Peet
9.5-	clay

Sta 45+00	20' Lt.
0-6	clay
6-8.5	Peet
8.5-	clay

Sta 45+50	19' Lt.
0-1'	Mixed fill material
1-5.5	clay
5.5-9	Peet
9-	clay

Sta 46+00	19' Lt.
0-5.5	clay
5.5-7.5	Peet
7.5-8.5	sand
8.5-	clay

Sta 46+50 19' Lt.
0-8' clay

Sta 42+50 18' Lt.
0-10 clay

Bad Spot 42+50 to 46+50

not necessary to strip we are filling.

Sta 56+00 15' Lt.
0-1 Mixed material
1-8 clay

Sta 56+50 15' Lt.
0-5.5 clay - mixed fill material
5.5-8.0 peat
8-11 clay

Sta 57+00 15' Lt.
0-3.5 clay - mixed fill material
3.5-5.5 Black loam
5.5-8.5 clay

9-15-44

Feet	Material
Sta. 58+50	15' Lt.
0-5.5	Clay - bit rock

Sta. 77+00	15' Lt.
0-6	Clay + mixed fill material
6-8.5	Peet
8.5-10	Clay

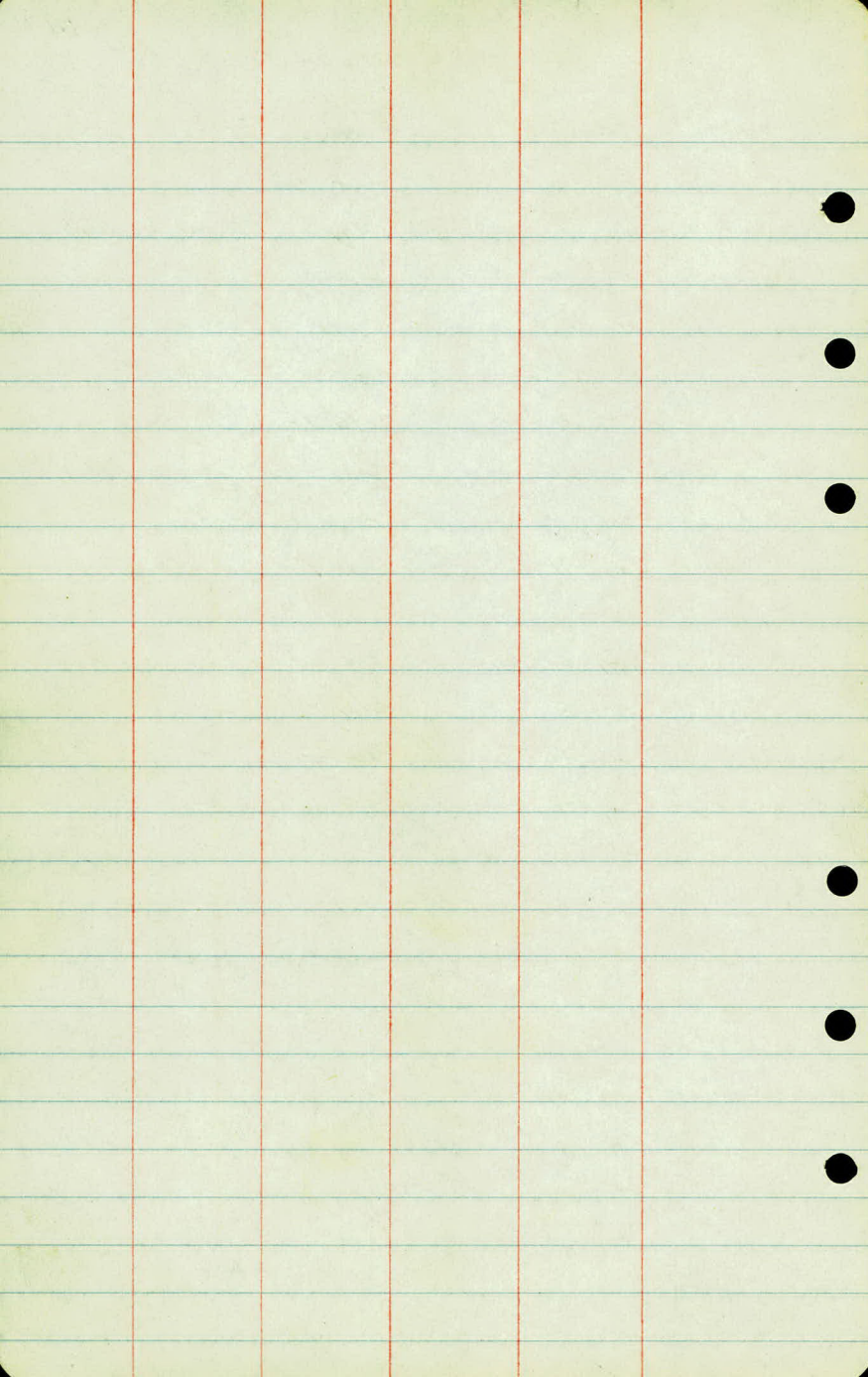
Sta. 78+00	15' Lt.
0-6	Clay + mixed fill material
6-8	Peet
8-11	Clay

Sta. 78+75	18' Lt.
0-5.5	Clay + mixed fill material
5.5-10	Peet
10-11	Sand

Feet	Material
Sta. 79+00	18' Lt.
0-5.5	Clay + fill material
5.5-10	Peet
10-11	Sand

Sta. 80+00	16' Lt.
0-6.5	Clay + fill material
6.5-10	Peet
10-11	Sand

Sta. 81+00	15' Lt.
0-8'	Clay
8'-11	Peet



5-25-44

A.B. 119

C.F.

Corrected Bench Levels

Cleveland Ave

	+	H.I.	-	Elev.	
B.M.	6.62	986.31.			979.69
T.P.	5.13	987.24.	4.20	982.11.	
-	1.22	981.40.	7.06	980.18.	
-	9.53	986.88.	4.05	977.35.	
B.M.			3.11	983.77.	✓
T.P.	8.28	993.37.	1.79	985.09.	
-	3.85	992.44.	4.78	988.59.	
B.M.	1.96	992.43.	1.96	990.48	990.47 ✓
T.P.	0.07	980.17.	12.33	980.10	
B.M.	2.42	974.55.	13.04	967.13	✓
T.P.	4.36	976.71.	2.20	972.35.	
B.M.			4.88	971.83.	✓
T.P.	2.62	970.19.	9.14	967.57.	
-	- 1.49	963.50.	5.20	964.99.	
-	1.65	953.70.	11.45	952.05.	✓
B.M.	3.68	950.24	7.13	946.57.	946.56
T.P.	12.53	950.43	12.34	937.90	
-	12.76	962.99.	0.20	950.23.	
B.M.	2.61	963.31.	2.29	960.70	✓
B.M.			9.00	954.31	✓
B.M.			8.01	955.30	✓
T.P.	0.69.	951.31.	12.69	950.62.	
-	- 0.11.	938.89.	12.31.	939.00.	
-	0.19.	928.71	10.37	928.52.	
B.M.			2.82	925.89	925.894 ✓
T.P.	1.91	918.25.	12.37	916.34.	

N.W. Cor. Bottom Step of School - Clev. + Larp.

N.G. Gone $\nearrow$ $\frac{6}{2}/48$ per K.A.

Top of No. Footing Conc. Radio Tower 95' Lt. 23+80

S.W. Cor. Lower Conc. Step of Ho. 100' Rt. 36+55

Spk. In P.P. S.E. Cor. Eldridge + Clev.

Spk. In 18" Oak N.E. Cor. "B" + Clev.

Spk. In 24" Oak 75' Lt. 72+30

Spk. In 6" Triple Elm 36' Rt. 88+32

Top of Great Lakes Pipeline Sta. Marker 25' Lt. 91+54

Top Bolt In S.W. Footing of High Tension Tower Rt. 91+85

U.S.C. + G.S. Mont. B.M. #613-36' Rt. 101+80

	+	H.I.	-	Elev.	
		918.25			
B.M.			3.84	914.41	
T.P.	1.39	912.57	7.07	911.18	
✓	6.88	910.86	8.59	903.98	✓
B.M.	5.74	910.85	5.74	905.12	905.109
B.M.	0.63	908.95	2.53	908.32	
T.P.	5.18	909.22	4.91	904.04	
✓	7.60	911.89	4.93	904.29	
B.M.	1.20	911.88	1.20	910.69	910.68
T.P.	4.85	913.58	3.15	908.73	
B.M.	10.48	915.98	8.08	905.50	✓
T.P.	7.12	921.50	1.60	914.38	
B.M.			5.52	915.98	✓
T.P.	2.36	917.39	6.47	915.03	
✓	1.54	910.05	8.88	908.51	
✓	7.12	909.34	7.83	902.22	
✓	12.79	921.13	1.00	908.34	✓
B.M.	11.07	921.12	11.07	910.06	910.05
T.P.	12.06	932.95	0.23	920.89	
B.M.	2.83	930.92	4.86	928.09	✓
T.P.	3.61	927.62	6.91	924.01	
B.M.			4.12	923.50	✓
T.P.	5.72	929.16	4.18	923.44	
✓	8.97	934.63	3.50	925.66	
-	9.02	938.34	5.31	929.32	
B.M.			5.84	932.50	932.491

Top of Mont. "C" + Clev.

U.S.C. + G.S. Mont. B.M. #614 - 30' Lt. 118 + 58

Top of Tele. Cable Marker 32' Lt. 121 + 80

S.W. Cor. Bottom Step W. Side of Ho. Rt. 140 + 65

S.E. Cor. Bottom Step Ho. Lt 152 + 90

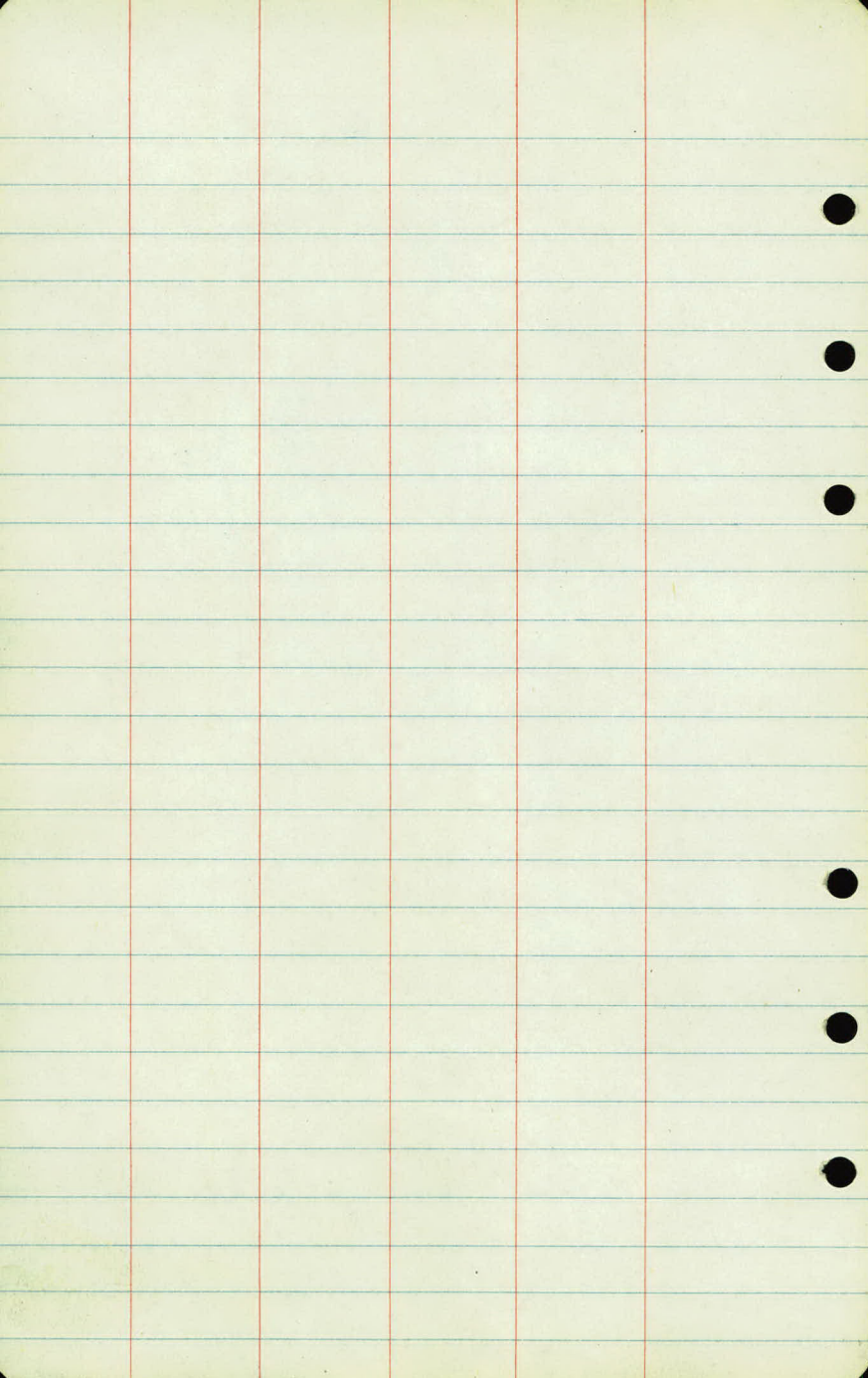
Spk. In 24" Oak S.W. Cor. "D" + Clev.

Spk. In T.P. Lt. 177 + 84

Top of Mont. "D" + Clev.

S.E. Cor. Bottom Step Ho. Lt 198 +

U.S.C. + G.S. Mont. B.M. #615 N.E. Cor. "E" + Clev.



X Sections

Cleveland Ave.

Sta	+	π	-	Elev.
BM	6.41	986.10		(979.69)
0 + 00				980.4

+29				80.8
-----	--	--	--	------

+33				80.9
-----	--	--	--	------

+50				81.0
-----	--	--	--	------

1				81.2
---	--	--	--	------

50				81.3
----	--	--	--	------

T.P.	6.76	987.21	5.65	980.45
------	------	--------	------	--------

2				81.3
---	--	--	--	------

+50				81.3
-----	--	--	--	------

Lt

d

Rt

N.W. Cor. Bottom Step of School Larp + Cleveland.

4.0	4.5	5.0	5.3	5.7	6.1	6.5	7.1	7.7	8.1	✓
150	100	50	25		25	50	100	150	200	

7.2	5.9	5.9	5.2	5.3	5.5	6.2	6.4	8.0	8.5	✓
51	29	23	11		12	24	29	32	50	

5.1	5.3	6.2	6.2	5.8	5.3	5.2	5.4	6.2	6.1	7.8	7.8	6.8	7.1	✓
50	31	26	24	21	11		12	21	24	28	30	34	50	

5.1	5.8	6.4	6.4	5.5	5.3	5.1	5.4	5.6	6.0	6.4	6.4	6.0	6.5	7.2	✓
50	28	26	21	16	11		12	18	22	24	26	28	33	39	
															7.4
															50

4.8	5.0	6.1	6.1	5.2	5.1	4.9	5.1	5.3	6.3	6.3	6.1	6.8	6.9	✓
50	31	26	20	15	11		12	17	23	29	35	36	50	

4.7	4.9	6.0	6.0	4.9	4.8	4.8	5.1	5.3	6.1	6.3	6.1	6.6	7.0	✓
50	30	23	19	14	9		12	16	22	27	34	35	50	

6.9	6.7	7.1	7.0	6.3	6.1	5.9	6.2	6.5	7.1	7.4	8.0	8.4	✓
50	31	27	19	15	10		12	17	20	34	35	50	

7.6	7.3	7.3	6.2	6.1	5.9	6.3	6.5	7.7	8.3	8.3	8.6	8.8	✓
50	31	22	15	10		12	16	21	29	34	35	50	

Sta	+	π	-	Elev.
		987.21		

3				81.4
---	--	--	--	------

	+50			81.5
--	-----	--	--	------

4				81.7
---	--	--	--	------

	+50			82.1
--	-----	--	--	------

5				82.4
---	--	--	--	------

	+50			82.4
--	-----	--	--	------

6				82.4
---	--	--	--	------

	+50			82.3
--	-----	--	--	------

Lt

d

ct

7.2 7.2 7.0 6.2 6.0 5.8 6.2 6.6 8.2 8.4 8.6 9.1 8.9
50 31 20 16 9 12 16 24 29 34 35 50 ✓

6.7 7.2 7.1 5.9 5.9 5.7 6.1 6.2 7.9 8.4 8.7 8.8 8.8
50 30 22 14 9 12 15 21 26 33 34 50 ✓

6.4 7.1 7.2 6.9 6.0 5.7 5.5 5.8 6.0 7.2 7.8 8.4 8.4
50 30 23 20 15 9 12 15 22 28 34 50 ✓

6.1 6.3 6.6 6.6 5.5 5.3 5.1 5.3 5.7 6.4 7.0 7.6 7.9
50 30 25 21 15 9 12 17 20 30 34 50 ✓

5.6 5.6 6.1 6.2 5.8 5.0 5.0 4.8 5.1 5.3 6.4 5.8 6.2 6.2
50 30 26 23 18 13 9 12 16 26 33 34 50 ✓

4.9 4.6 5.9 5.8 5.1 5.0 4.8 5.2 5.4 6.0 5.4 5.5 5.3
50 30 24 20 14 9 12 17 24 31 34 50 ✓

4.2 3.7 5.7 5.7 5.1 5.0 4.8 5.2 5.3 5.9 5.6 4.9 5.4 5.2
50 30 23 18 15 9 12 16 24 29 34 35 50 ✓

3.3 3.1 4.4 5.7 4.1 6.1 4.9 5.0 4.9 5.1 5.3 6.0 5.6 4.8 5.1
50 31 28 25 21 20 14 9 12 17 22 27 33 50 ✓

Sta	+	π	-	Elev.
		987.21		
7				82.4
	+50			82.2
	+70			82.2
8				82.2
	+50			82.0
9				81.9
	+24			81.9
	+37			81.9

LA

4

RA

2A 23 42 5.7 59 5.1 5.0 48 5.1 5.3 57 5.3 45 45 1.8 5.0
 50 31 27 22 19 14 9 12 16 24 29 31 33 34 50

36 28 44 6.2 6.2 54 5.0 5.0 5.3 54 5.9 6.1 5.7 48 5.3 5.6
 50 31 28 23 21 17 9 12 17 20 25 28 34 35 50

54 5.6 6.2 6.1 5.3 5.1 5.0 5.2 5.2 6.1 6.0 5.5 5.1 5.6 6.0
 50 27 24 20 14 9 12 16 21 27 29 34 35 50

6.0 6.1 6.7 6.7 5.5 5.2 5.0 5.2 5.5 6.1 6.3 5.9 6.6 6.6
 50 29 25 23 17 9 12 18 21 24 34 35 50

7.7 7.9 7.7 6.2 5.6 5.5 5.2 54 5.6 6.8 7.2 7.3 7.8 7.5
 50 29 26 21 16 9 12 17 24 29 34 35 50

8.7 8.6 8.1 6.2 5.7 5.7 5.3 5.7 5.8 6.7 7.2 7.4 7.3 7.8 7.3
 50 30 25 16 12 9 12 17 21 25 31 34 35 43
 7.2
 50

8.6 8.0 6.3 5.7 5.6 5.3
 50 24 20 16 9

5.6 5.6 6.9 7.0 7.0 6.6
 13 17 27 33 40 50

8.3 2.6 5.7 5.6 5.5 5.3 5.7 5.7 6.7 6.9 6.4 6.5
 50 31 24 17 9 12 17 22 31 34 50

Sta	+	π	-	Elev.
		987.21 ^y		
9+45				81.9
10				81.9
TP	2.80	984.70 ^y	5.31	781.90 ^y
+50				81.9
11				81.8
+50				81.3
12				80.8
+50				80.3
13				79.7

Lh

d

Rh

58 54 57 54 55 5.3 5.7 5.6 6.8 6.9 6.6 6.6
50 28 24 14 9 13 17 23 28 33 50

5.7 5.6 5.5 54 5.3 5.5 5.6 6.4 6.7 5.7 6.0
50 28 15 9 12 17 21 25 34 50

2.7 3.3 3.8 3.6 3.0 3.0 2.8 3.0 3.2 4.2 4.4 3.5 3.0 3.4
50 28 24 19 15 9 12 15 20 27 31 36 50

2.6 3.3 3.8 3.8 3.1 3.1 2.9 3.3 3.3 4.2 4.4 4.0 4.2
50 26 21 19 13 9 13 16 21 30 33 50

3.0 3.9 3.8 4.1 4.1 3.6 3.4 3.7 3.7 4.6 4.8 4.7 5.2
50 31 25 22 20 12 13 15 21 30 40 50

4.6 4.8 5.3 5.3 4.5 4.2 4.1 3.9 4.3 4.4 5.1 5.1 4.1 4.7
50 29 23 21 17 13 9 13 16 22 27 33 50

5.5 6.0 5.9 5.8 4.7 4.6 4.4 4.7 4.8 5.5 5.5 3.6 3.3 4.3
50 33 26 22 13 9 12 16 20 23 33 41 50

6.4 6.4 6.4 5.3 5.2 5.0 5.2 5.3 5.4 6.4 6.6 6.4
50 29 22 15 9 9 13 15 21 33 50

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

984.70[✓]

13 +13

79.6

+15

79.6

+18

79.5

+50

79.2

14

78.5[✓]

T.P.

1.14

980.96[✓]

4.88

979.82

+50

77.9

15

77.3

+50

76.8

LH

E

RH

6.5 4.8 6.5 6.5 5.5 5.3 5.1 5.4 5.4 6.3 6.5 6.5 ✓
 50 33 26 22 19 9 12 12 20 33 50

7.6 7.6 7.6 7.5 7.3 6.7 6.5 5.5 5.4 5.1 5.4 5.6 6.3 6.5 6.6 ✓
 150 100 50 33 26 22 19 9 13 16 21 33 50

5.8 6.8 6.8 6.6 5.6 5.5 5.2 5.5 5.5 6.5 6.6 6.9 ✓
 50 33 26 22 19 9 12 16 22 33 50

6.5 6.5 6.8 7.2 7.2 6.1 5.8 5.5 5.8 5.9 6.6 6.7 6.1 5.2 ✓
 50 39 33 28 26 16 10 12 16 20 30 33 50

6.2 7.7 8.0 8.2 8.1 7.8 6.7 6.4 6.2 6.4 6.5 7.4 7.1 6.3 5.6 ✓
 50 38 33 30 28 23 16 9 12 17 21 30 33 50

5.5 4.9 7.0 7.7 7.7 6.0 5.6 4.7 3.7 3.4 3.1 3.5 3.6 4.5 5.2 6.4 5.9 3.0 ✓
 100 70 56 47 39 33 29 20 15 10 12 16 22 33 38 55 100

3.7 3.7 10.2 10.8 10.1 6.4 5.9 4.4 4.1 3.7 4.1 4.2 5.9 8.0 7.2 5.8 ✓
 100 90 65 55 47 33 22 16 10 11 15 22 28 63 100

1.4 7.7 8.4 6.1 5.8 5.2 4.5 4.4 4.2 4.5 4.9 6.3 8.0 8.3 7.8 7.0 ✓
 100 68 53 33 24 19 13 10 12 16 21 27 33 60 100

Sta.	T	π	-	Elev
		98096. ✓		

16 +00

76.4

+50

76.3

17

76.2

+35

76.2

+72

76.3

+84

76.3

18

76.4

6-2-44

128

14

2

124

08 1.5 44 66 67 65 60 53 48 46 4.7 48 65 82 78 7.2
100 86 62 37 33 25 20 16 10 11 14 22 29 60 100

38 45 46 69 71 70 53 50 47 48 51 63 82 84 71 65
100 71 50 40 33 22 14 10 11 16 21 28 36 69 100

4.2 45 84 85 80 71 58 51 50 48 51 51 63 76 78 68 59 43
100 87 45 39 33 22 17 13 9 11 15 22 27 32 40 60 100

46 54 62 68 66 66 54 50 49 48 51 51 50 48 43 36 22
100 78 70 40 33 22 17 13 9 11 17 24 32 37 65 100

50 44 42 49 52 57 52 48 48 47 48 48 55 55 11 05 104
100 66 47 33 26 21 18 13 9 11 15 18 22 33 70 100

48 40 33 43 51 56 48 48 47 47 49 54 56 40 16 00 08 19
100 65 49 33 27 23 13 9 11 16 20 22 27 33 42 65 100

47 44 32 48 51 51 56 56 50 47 46 47 48 58 58 43 30 21 35 40
100 74 55 37 33 28 24 19 15 9 11 15 21 23 27 33 42 68 100

Sta	+	π	-	Elev
		980.96		

18 +40

76.5

+65

76.5

19

T.P. 7.75 984.88 3.83

76.6

977.13

+40

76.6

+70

76.6

20

76.8

+35

77.2

+65

77.5

6-19-44
K.H.
L.C.

129

Lt.

£

Rt.

51 57 57 67 66 61 49 48 45 47 50 60 70 74 80 77
100 74 47 39 33 21 15 9 11 17 21 25 33 60 100

X

53 59 65 64 61 53 47 46 45 48 48 61 62 90 90 90
100 61 38 33 22 19 14 9 11 13 21 28 42 68 100

X

51 54 74 78 70 54 47 47 44 51 64 83 93 97 100
100 79 53 33 24 18 13 10 16 20 26 34 62 100

X

Nail in R.R.H. 20

90 90 123 139 107 90 86 83 86 90 122 125 122 127
100 79 47 33 22 17 10 11 16 28 33 60 100

X

96 122 138 138 123 92 87 83 86 92 105 113 109 100 99
100 50 38 33 28 16 10 11 17 23 29 39 66 100

X

104 113 121 108 104 88 83 81 84 86 96 87 77 70
100 72 44 28 23 17 10 11 16 24 33 70 100

X

104 107 99 89 81 80 77 80 81 89 82 73 56 50
100 77 23 18 14 10 11 16 22 32 37 73 100

X

92 92 92 90 94 91 78 77 74 76 79 87 84 70 52
100 70 44 33 26 23 15 10 11 16 22 33 62 100

X

Sta	+	π	-	Elev
		984.88.		

21				77.9
----	--	--	--	------

	+25			78.2
--	-----	--	--	------

	+65			78.6
--	-----	--	--	------

22				78.9
----	--	--	--	------

	+26			79.4
--	-----	--	--	------

	+61			80.1
--	-----	--	--	------

23				80.9
----	--	--	--	------

TP	4.64	987.09.	2.43	982.45.
----	------	---------	------	---------

6-19-44

130

Lt.

E

Lt.

7.0 7.5 7.5 8.1 8.3 7.5 7.2 7.0 7.3 7.3 7.8 8.5 9.0 9.8 8.9 7.4
100 45 33 27 21 15 10 11 16 24 30 33 41 65 100

5.8 6.7 7.2 6.9 7.8 7.9 7.1 6.7 6.9 7.1 8.5 8.8 9.2 9.6 9.7 9.5 8.3
100 61 39 33 27 21 16 12 16 23 27 33 36 67 76 100

4.7 4.9 5.7 6.5 7.5 7.5 6.6 6.3 6.5 6.5 7.9 8.0 7.8 7.8 10.2 10.2
100 75 41 33 27 22 16 11 15 23 30 33 68 90 100

3.7 4.8 4.1 5.3 5.6 6.6 6.8 6.2 6.0 6.0 6.2 7.7 8.1 8.6 9.3 10.3 10.3
100 71 37 33 28 25 19 15 12 16 24 33 34 62 78 100

2.9 4.0 5.6 5.9 6.6 5.8 5.5 5.5 5.8 6.9 7.4 8.2 9.9
100 82 52 33 20 15 11 17 20 33 57 100

1.8 2.6 4.2 4.2 1.8 2.1 3.3 3.8 5.9 5.9 5.1 4.8 5.0 5.0 6.0 6.2 5.7 4.8 6.1 7.5
100 80 77 57 51 39 33 26 22 19 15 10 15 23 27 33 46 73 100

2.7 3.0 3.0 0.6 2.2 3.6 5.1 5.1 4.3 4.1 4.0 4.9 4.1 5.4 5.1 3.6 2.3 3.9 6.0
74 72 59 48 30 27 22 19 15 11 12 16 21 25 33 44 71 100

11
100

Not in P.P. Bl. 23+00

Sta.	+	π	-	Elev.
		987.09		
23	+14			81.1
	+40			81.3
	+65			81.4
B.M.		3.33		983.76 (983.77)
24				81.6
	+32			81.8
	+64			81.7
25				81.7
	+25			81.8

7-20-44
K.A.
L.C.
C.F.

131

Lt

4

Rt

30 44 55 55 25 37 72 72 63 60 62 70 72 53 40 58 77
100 67 63 54 47 33 22 19 15 15 19 23 33 41 70 100

2.9 3.8 00 26 3.4 68 68 42 58 6.0 6.7 70 41 55 70 7.7
100 67 58 47 31 22 19 15 15 20 25 33 46 75 100

3.7 4.5 4.8 4.8 6.6 6.6 6.0 5.7 6.0 6.9 7.5 8.8 7.9
100 60 46 29 22 19 15 16 23 33 55 100

Top of N. Footing of Radio Tower 95' Lt sta 23+80

8.7 8.3 9.6 7.0 6.1 5.5 5.6 7.3 9.8 11.0 103 90
100 52 34 21 16 15 20 27 40 88 100

11.4 11.4 9.9 7.1 6.0 5.3 5.9 7.2 9.4 10.0 9.9 9.3 7.1
100 59 30 23 17 17 21 28 40 72 87 100

976.39.

10.7

27.52

FL 24'GM

11.5 130 9.1 8.5 7.1 6.1 5.4 5.8 6.8 9.4 9.8 9.8 7.7 50 9.8
100 60 36 29 24 18 18 22 27 40 61 75 100 20.5

FL 24'GM

12.7 11.6 9.9 9.2 8.8 7.4 6.2 5.4 5.6 7.7 9.1 9.5 90 7.7 6.9 2.8
100 58 44 39 27 23 18 17 23 28 33 47 53 61 100

12.8 12.1 9.9 7.8 7.4 8.3 8.3 6.8 6.1 5.3 5.6 6.7 9.1 8.8 7.1 1.4
100 51 45 40 34 32 26 21 17 18 23 32 45 53 100

Sta	+	π ✓	-	Elev
		98709.		
25	+70			82.0
26				82.4
	+11			82.5
	+16			82.5
	+33.46 = E Roselawn Ave.			82.6
	+49			82.6
	+64			82.8
	+84 X Drain Section			83.0

Lt.

C

Rt.

123 11.5 99 82 60 51
100 45 29 24 20

51 58 65 58 51 35 27
18 23 29 33 55 75 100

103 100 99 72 62 54 47 48 54 57 5.2 41
100 51 44 33 26 14 14 26 33 54 100

71 71 62 59 54 46 46 54 54 44 40
100 60 50 30 17 14 30 36 51 100

6.8 6.4 5.9 5.0 4.6 4.5 4.9 5.3 5.3 4.9
100 65 38 13 13 29 43 67 100

7.3 6.9 6.2 5.6 5.1 4.5 4.5 4.4 3.8 3.3 2.9
200 150 100 50 25 25 30 100 150 200

6.7 6.3 5.9 5.0
100 67 35 12

4.5 4.5 4.9 4.9 4.4 4.3
15 26 41 54 100

10.0 9.3 6.1 5.9 5.0 4.3
100 50 30 19 10

4.5 5.0 5.3 5.2 4.1 3.2
13 29 38 58 83 100

11.0 9.7 5.5 5.0 4.1 4.1 4.7 8.10 7.0 6.3 4.5 3.7 1.9
42 35 20 11 12 21 31 35 41 60 76 100

FL-24°C17

975.59
11.5
41
F.L-24°C17

Sta	+	π	-	Elev.
		987.09.		
27				83.4
I.P.	10.94	994.30.	37.3	983.36.
	+50			83.8
28				84.4
	+38			85.2
	+68			85.7
	+96			86.2
29				86.3
	+30			86.7

Lt.

E

Et.

131 120 109 97 58 49 45 37 39 45 72 72 51 51 32 28 16 105
 100 60 36 34 21 16 13 13 20 28 39 42 59 61 79 100 100

206 202 193 167 147 126 113 113 105 107 140 139 105 88 63 50
 100 58 42 36 33 22 19 9 16 24 31 37 50 64 100

206 205 194 187 164 136 116 107 106 99 100 107 128 128 70 47 30 32
 100 80 50 33 31 24 19 14 9 15 19 23 29 40 63 79 100

195 188 175 165 133 114 102 97 91 95 117 112 70 40 19 09
 100 62 37 35 25 21 16 10 18 22 29 37 42 62 73

190 170 158 132 120 93 88 86 88 108 103 37 24 12
 100 80 52 30 23 19 9 19 23 29 43 56 100

Duplicate sta. 29

81 81 82 97 96 46 37 35
 11 20 23 29 39 65 100

139 128 104 102 107 107 91 83 80 81 79 95 95 80 57 44
 100 74 43 36 29 23 18 10 10 20 23 29 31 72 100

98 77 75 99 99 84 79 76 77 81 93 90 76 68 54 53
 100 58 36 29 22 19 12 11 20 23 27 31 45 73 100

Sta + π ✓ - EICK

99430

29 +60

87.0

+75

87.1

30

87.3

+35

87.8

+70

88.2

31

88.6

+27

88.7

+54

88.7

Lt

E

Lt

7.6 58 63 70 91 93 80 75 73 7.4 8.4 9.6 9.6 8.9 8.6 8.7 7.1
100 81 55 36 29 21 17 11 15 20 24 27 29 43 63 100

8.3 6.0 5.6 6.6 7.0 9.0 9.0 7.9 7.4 7.2 7.3 8.2 9.7 9.7 9.1 8.8 8.2 7.2
100 89 76 49 36 29 21 19 12 15 19 23 27 29 64 86 100

8.5 8.2 6.5 5.3 5.3 8.6 8.6 7.2 7.0 7.1 7.9 9.4 9.1 8.3 8.2 7.3 7.1
100 88 83 57 37 29 21 14 14 19 24 29 33 51 73 100

8.3 5.4 3.3 2.1 7.6 8.3 6.7 6.5 6.8 7.1 8.7 8.1 4.0 3.7 3.0
100 76 60 40 29 24 15 11 17 23 28 38 54 100

8.6 5.8 3.8 2.7 7.7 8.1 6.4 6.1 6.4 7.0 8.2 6.9 2.8 3.2 4.2
100 78 60 39 29 23 15 15 19 23 30 39 56 100

9.8 7.7 4.5 3.6 7.8 8.0 6.8 6.1 5.7 6.0 6.4 8.0 7.3 4.9 4.0 4.4
100 75 49 38 29 23 20 16 12 19 23 29 39 66 100

10.7 9.6 6.6 4.5 8.0 8.0 5.9 5.6 5.8 6.4 7.8 7.5 3.0 4.3 4.6
100 72 48 32 28 21 15 13 19 23 27 39 70 100

10.9 11.1 10.8 8.2 6.6 8.1 8.1 6.0 5.6 5.7 6.1 8.1 7.7 3.4 4.1 4.0
100 84 75 50 34 29 22 16 12 16 23 28 38 50 100

Sta.	+	π	-	Elev.
32		994.30		88.7

+32				88.7
-----	--	--	--	------

+68				88.7
T.R.	405	993.47	4.88	989.42

33				88.7
----	--	--	--	------

33 +50				88.8
--------	--	--	--	------

+67				88.9
-----	--	--	--	------

34				88.9
----	--	--	--	------

+50				88.8
-----	--	--	--	------

35				88.9
----	--	--	--	------

Lt.

2

Rt.

11.0 125 11.0 8.9 6.3 5.6 5.8 6.1 8.3 7.9 4.4 4.5 4.5
100 70 44 24 17 12 18 23 29 35 54 100

11.0 11.8 130 11.8 10.5 7.0 6.1 5.6 5.8 7.9 7.9 4.6 4.3 4.0
100 80 60 38 33 21 9 16 22 27 34 58 100

9.5 11.0 12.0 11.0 8.7 6.6 6.1 5.6 5.7 5.8 8.2 8.1 5.6 4.6 4.0
100 70 50 36 27 18 10 11 16 23 27 34 69 100

Nail in TA Rt 33+

8.5 10.3 10.2 6.7 5.5 5.3
100 68 34 23 15 10

4.8 4.9 5.2 7.4 7.4 6.3 4.5 3.7 3.4
10 16 23 26 30 34 60 100

8.7 10.8 11.5 11.0 10.1 5.9 5.1 4.7 4.8 5.6 7.2 7.0 4.3 4.1 3.5
100 80 50 35 30 19 11 10 17 23 28 34 52 100

9.0 9.6 6.1 5.9 5.0
100 71 42 21 12

4.6 4.8 5.1 6.7 7.4 6.9 4.3 4.1 3.5
10 16 21 25 28 34 52 100

8.0 8.8 8.3 6.8 5.6 5.0 4.6 4.9 5.1 7.1 6.7 4.1 3.6 3.2
100 62 31 21 19 13 11 16 23 29 34 78 100

8.4 7.1 4.6 7.6 8.0 5.0 4.7 4.8 5.0 6.6 6.6 3.8 3.4 3.0
100 65 35 28 23 15 10 16 22 27 33 58 100

8.0 6.8 5.5 4.4 7.7 7.4 5.0
100 69 48 35 28 23 16

4.6 4.9 6.6 6.4 3.8 3.4 3.2
15 22 26 33 56 100

Sta	+	π ✓	-	Elev.
		993.47.		
35	+50			88.7
36				88.3
	+40			87.9
B.M.		2.98+	990.49	(990.47)
	+18			87.4
37				87.1
	+50			86.4
38				85.4
	+50			84.2

Lt

C

Rt

41 42 51 74 75 51 98 52 72 71 36 36 35 ✓
 100 63 33 27 22 16 15 21 27 37 69 100

58 51 54 83 81 56
 100 65 33 28 22 16

52 57 75 74 51 50 38 ✓
 16 20 28 34 58 100

52 55 50 84 84 63 56 58 61 84 85 60 52 41 ✓
 100 68 35 28 22 16 9 16 19 29 33 67 100

S.W. Cor. Lower Cong. Step of Ho. 100 Rt 36 + 55

49 51 50 84 84 66 63 61 66 90 92 67 66 51 47 ✓
 100 58 34 28 22 17 11 16 20 29 34 45 85 100

40 40 42 84 86 69 64
 100 58 36 27 22 16

70 95 94 71 48 76 ✓
 15 21 29 33 70 100

16 20 27 84 88 72
 100 62 40 28 21 10

71 77 101 101 78 82 101 ✓
 15 21 27 33 52 100

19 14 31 96 84 89 83 81 87 108 111 82 91 99 ✓
 100 58 43 28 22 18 15 16 22 28 34 62 100

36 32 39 107 112 95 93 99 117 116 96 95 100 ✓
 100 72 43 29 21 14 16 21 26 33 60 100

Sta	+	π	-	Elev.
		993.47.		

39				83.0
----	--	--	--	------

+42				81.6
-----	--	--	--	------

+35

T.P.	1.15	981.79.	12.83	980.64.
------	------	---------	-------	---------

40				79.6
----	--	--	--	------

+38				78.3
-----	--	--	--	------

+70				77.3
-----	--	--	--	------

41				76.4
----	--	--	--	------

+35

T.P.	1.67	975.51.	7.95	973.84.
------	------	---------	------	---------

Lt.

d

Rt.

36 48 49 121 125 111 106 105 108 112 130 130 101 99 93
 100 65 43 29 22 18 11 13 16 22 26 35 57 100

50 53 50 135 137 124 120 119 124 145 145 115 119 131
 100 69 45 29 23 19 11 16 22 25 35 63 100

63 57 58 139 139 128 125 129 129 149 149 133 141 146
 100 68 43 28 24 19 11 16 21 27 35 78 100

418 421 423 411 404 422 29 24 22 26 31 35 32 28 34 35
 100 86 63 38 27 24 19 15 16 21 28 32 57 87 100

39 24 34 54 56 39
 100 73 33 27 22 17

35 38 50 49 43 41 32
 15 20 28 31 52 83

93 83 68 50 68 68 49 45 50 61 60 55 49 42
 100 73 48 31 27 21 18 17 20 28 30 66 100

133 114 96 79 77 57 54 55 83 80 63 54
 100 74 49 32 22 16 16 25 31 60 100

163 138 116 92 67 65 68 76 92 88 81 73
 100 70 47 22 15 11 23 28 51 69 100

Sta	+	π	-	Elev
		975.51.		
41	+70			74.2
		X		
42				73.3
	+35			72.4
	+75			71.2
B.M.	5.27	972.40 ✓	835	967.16 (967.13)
43				70.5
	+50			69.1
44				68.2
	+50			67.8

20-44
 K.A.
 L.C.
 C.F.
 C.N.
 L.L.
 Lt.

138

111 106 96 84 58 24 17 16 1.3 19 26 58 69 68 66 71
 100 84 74 63 35 20 15 13 12 21 30 40 57 78 100

116 98 85 69 38 27 22 27 37 7.0 8.7 10.0 104
 100 62 45 32 22 14 14 21 31 57 87 100

102 98 83 45 36 31 36 44 7.9 10.1 104 115 119
 100 62 36 21 13 11 20 30 41 52 74 100

82 97 106 100 60 50 43 48 6.2 104 121 12.5 L.O.
 100 85 62 35 23 16 17 21 38 58 75

Spk in P.P.S.E. for Eldridge & Cleveland

L.O. 82 65 43 31 24 19 27 31 6.6 84 89 87 L.O.
 97 28 25 21 12 18 22 32 40 44 50

L.O. 88 69 54 42 37 33 36 39 48 7.2 8.2 9.5 8.6 70 44
 35 26 22 18 12 11 18 22 31 34 36 51 66 100

L.O. 89 64 49 46 42 45 49 55 8.1 8.4 68 39
 32 25 20 12 13 19 22 27 53 66 100

L.O. 85 68 57 51 46 51 56 6.7 7.7 8.5 8.5 7.3 45
 32 24 21 13 14 19 25 27 29 57 65 100

Sta	+	π ✓	-	Elev
		972.40.		
44	+61			67.7.
	+67			67.7.
	+80			67.7.
	+93			67.7.
45				67.7.
	+50			67.7.
	+70			67.8.
46				67.9.

C-21-44
K.R.
L.C.
C.F.

139

Lt.

£

Et.

L.O. 86 70 61 52 47 50 56 80 83 76 79 4
30 26 22 13 14 26 32 59 74 100

L.O. 90 66 55 53 47 50 55 57 54 52 ✓
31 24 19 13 14 24 46 72 100

L.O. 91 84 65 59 53 47 50 52 53 52 56 58 ✓
35 29 22 19 13 13 28 50 100 150 200

L.O. 86 66 55 53 47 50 56 55 56 ✓
28 23 18 12 14 29 55 100

L.O. 87 63 58 53 47 50 60 76 86 86 78 79 79 ✓
29 24 22 12 13 24 29 36 44 50 69 100

L.O. 87 60 55 52 47 51 55 62 82 84 84 82 81 82 93 ✓
28 22 19 13 14 19 25 31 33 36 39 53 71 100

L.O. 86 68 55 51 46 50 54 69 76 75 77 81 99 ✓
27 21 17 11 13 19 27 29 35 50 72 100

L.O. 87 62 49 50 45 49 54 66 70 77 94 ✓
29 21 16 12 14 23 28 49 74 100

Sta	+	π	-	Elev
		972.40		

46 +50

68.3

+72

68.4

47

68.7

+33

68.8

+63

69.1

X

+81

69.2

48

69.4

+43

69.7

176/10
33

Lt E Rt
 640
 10. 84 64 52 45 41 44 52 49 56 66 73
 31 24 20 12 13 22 40 62 84 100

70 68 57 63 77 71 51 43 40 43 46 47 50 61 62
 100 75 46 31 29 23 20 12 13 17 30 49 80 100

3.8 3.9 3.7 7.4 6.7 5.1 4.4 4.0 3.7 4.2 4.5 5.1 5.0 5.2 5.7 4.7
 100 60 38 28 22 19 16 11 12 19 24 32 49 71 100

1.2 1.6 2.4 5.9 7.0 6.7 4.8 4.1 3.8 3.6 4.1 4.3 4.9 4.2 3.4
 100 63 38 29 26 24 18 16 11 12 22 41 70 100

1.7 2.9 3.2 6.4 6.7 5.3 4.3 3.6 3.3 3.8 4.5 4.9 5.1 5.8 3.9
 100 75 36 28 24 21 19 11 11 20 36 53 75 100

2.0 3.2 3.5 4.6 6.3 6.5 4.5 4.0 3.5 3.2 3.6 3.9 5.0 8.0 8.6 7.8 5.1
 100 75 34 33 29 26 19 17 11 12 15 22 30 46 72 100

1.8 3.0 3.3 3.8 6.4 6.5 5.0 3.6 3.3 3.0 3.6 3.8 4.6 8.5 9.4 9.5 9.0 6.8
 100 78 49 36 28 25 20 17 9 11 16 20 31 50 67 70 100

2.7 3.2 3.7 5.2 9.3 10.0 10.6 10.0
 11 17 23 32 45 65 100

Sta.	+	π	-	Elev
		972.40 [✓]		
48 +73				70.1 [✓]
I.P.	6.76	972.19 [✓]	1.97	970.43
48 +43				69.7
+73				70.1
49				70.4
+23				70.8
+65				71.4
50				71.7
+24				72.0

Lt

E

Et

23

29

37 47 82 95 104 98

13 19 26 34 51 75 100

3.0 5.8 6.7 7.7 10.4 10.4 8.3 7.7 7.5
100 76 53 37 29 23 18 10

0.7 3.5 5.8 9.7 9.8 7.5 7.3 7.1
100 66 36 29 23 18 10

1.4 1.4 3.4 9.2 9.2 7.5 7.0 6.8 7.2 7.8 9.4 11.3 11.3 10.1 10.7 13.1 14.5
100 64 40 28 23 18 10 12 17 21 26 29 32 38 83 100

0.0 10.2 1.8 8.5 8.9 7.1 6.6 6.4 6.8 6.8 9.9 10.0 8.4 9.9 14.7
100 67 42 28 22 18 10 11 15 23 28 32 51 100

13.2 12.9 0.2 4.9 8.5 8.7 6.5 5.9 5.8 6.3 6.3 7.2 8.8 8.7 6.9 6.1 9.5 12.4
100 88 66 36 28 23 18 10 12 15 18 23 27 33 34 70 100

12.0 1.0 4.6 6.2 8.6 8.5 6.1 5.8 5.5 5.9 6.6 8.3 7.5 4.5 7.6 10.3
100 78 53 33 28 23 18 10 13 19 23 28 35 65 100

12.0 3.2 5.8 7.2 8.6 8.6 6.0 5.6 5.2 5.6 5.6 6.4 7.8 7.9 3.8 5.9 9.7
100 76 52 31 28 23 17 10 12 15 18 23 26 36 68 100

Sta	+	π	-	Elev.
		977.19.		
50	+65			72.3
51				72.4
	+30			72.5
	+64			72.6
B.M.	5.56	977.39.	536	971.83. (971.83)
52				72.9
	+17			73.1
	+33			73.1
	+42			73.1

Lt

C

Pt

2.8 53 69 77 84 79 54 52 49 54 59 7.4 7.4 30 34 9.8
100 74 48 30 27 21 16 9 13 18 23 27 36 58 100

53 65 7.4 7.5 80 7.8 54 51 48 53 59 7.1 7.1 56 36 41 67 101
100 77 54 29 27 23 17 10 12 19 23 25 30 35 55 14 100

6.7 7.8 7.9 7.3 ²⁸ (11.8) 7.5 53 50 47 52 6.0 7.2 7.1 4.1 5.2 7.1 10.9
100 76 48 29 27 22 16 10 14 19 23 27 35 60 73 100

6.9 7.8 8.1 7.8 7.5 5.2 4.8 4.6 4.9 5.7 6.8 6.8 5.3 5.6 7.6 11.0
100 76 48 27 22 16 10 14 19 23 29 31 52 72 100

Spt. in 18" Oak N.E. Cor. Co. Rd. 18" + Cleveland.

6.3 7.1 7.6 6.8 4.9 4.7 4.5 4.9 5.2 5.2 3.8 5.6 10.3
100 84 49 29 19 9 14 19 29 33 56 100

7.5 8.3 7.8 6.4 4.9 4.7 4.3 4.5 5.3 5.3 3.5 5.6 9.2
100 77 50 26 19 11 11 23 31 35 61 100

7.1 8.3 8.4 7.3 5.1 4.6 4.3 4.6 6.3 6.4 5.5 7.0 8.8
100 82 57 39 31 10 12 38 59 71 77 100

3.2 4.0 4.7 4.4 4.3 4.6 7.0 8.1
100 72 47 10 12 61 100

sta + π - Elev.
977.39.

52 + 58.69

73.0 .

+ 73

72.8 .

+ 84

72.5 .

X

53

72.1 .

+ 25

71.7 .

+ 67

71.1 .

54

70.7 .

+ 27

70.3 .

Lt.

4

Rt.

102 10 26 40 44 44 51 60 76 87 89
 200 150 100 50 25 25 50 100 150 200

X

29 40 49 47 46 50 67 78
 100 65 39 9 12 54 100

X

10.1 104 93 59 55 50 49 53 61 61 52 67 71
 100 67 49 30 20 9 13 30 42 48 88 100

X

11.9 126 123 111 64 54 53 56 61 61 50 64 73
 100 82 63 45 24 9 13 23 31 39 68 100

X

12.8 13.3 126 110 94 77 62 59 57 60 65 116 55 66 62 82
 100 98 62 44 27 22 16 9 12 18 24 32 37 71 100

X

13.2 12.1 10.0 80 81 89 74 66 63 65 71 87 80 54 67 101
 100 78 53 34 29 23 19 10 12 18 24 29 37 64 100

X

11.2 72 55 90 91 75 70 67 70 76 87 97 55 74 95 138
 100 66 36 27 22 18 10 12 18 23 28 38 65 85 100

X

95 50 33 42 71 92 79 75 71 75 80 86 99 97 76 94 105 147
 100 66 44 34 26 22 18 11 12 16 20 23 28 34 53 70 100

Sta	+	π	-	Elev
		977.39		

59 +55

69.6

+75

69.1

55

68.6

T.P.

264

972.23

7.80

969.59

+25

67.7

+31

X Drain

68.0

lt

E

E

7.7 23 20 46 9.5 9.8 8.7 8.1 7.8 8.2 9.2 11.0 11.0 10.9 12.9 14.4
100 62 39 35 25 22 20 11 11 18 23 30 33 58 100

7.7 31 21 33 5.9 9.8 10.3 9.1 8.6 8.3 8.5 9.7 12.1 13.3 12.5
100 74 57 40 34 28 24 18 11 11 19 25 40 66

137 142 148 148
100 80 74 72

8.4 40 55 69 9.2 11.5 11.7 10.0 9.4 8.8 9.1 10.0 13.2 13.7 16.9 16.9
100 73 51 40 33 28 23 19 15 11 18 25 47 46 48
37

124 136 126
100 70 58

5.7 25 14 28 6.5 7.8 7.4 5.7 4.9 4.5 5.3 8.9 8.8 11.4 11.4 7.0 7.4
100 81 64 53 33 27 23 19 16 18 26 30 31 33 38 46

5.1 6.8
100 72

8.0 22 6.8 8.7 5.2 4.6 4.7 4.6 5.4 9.6 7.4 7.6 6.6 4.7 11.9
100 64 33 23 18 10 11 18 29 35 49 23 100 30

FL. 24°C (M)

Sta	+	π ✓	-	Elev
		972.23.		
55 +38		✓		67.8 ✓
T.P.	2.66	972.25.	2.64	969.59.

+67

67.4.

+87

67.2.

+91

67.1.

56

67.1.

+50

66.5.

57

66.3.

58 +20

66.3.

6-22-44

145

Lt

C

Rt

X

86	36	42	73	86	53	48	44	48	56	84	86	70	73	58	53
100	77	53	34	25	18	10		11	19	24	29	37	54	80	100

X

113	105	82	82	92	26	58	54	49	53	61	84	82	61	51	46
100	84	65	43	30	26	17	10		13	18	24	28	36	55	100

X

127	117	101	101	101	62	56	51	55	60	84	80	52	42	27	36
100	77	50	33	24	17	11		11	18	23	29	34	53	81	100

X

958.55

137	122	117	100	124	127	104	65	56	52	55	61	82	80	48	34	26	36
27	100	68	29	28	26	24	18	12		12	19	22	28	37	57	82	100

FL 24°C.M

X

131	117	107	119	119	103	65	57	52	57	62	85	82	48	43	25	33
92	63	31	30	28	27	19	11		14	18	22	27	36	53	64	100

X

L.O.	128	114	111	71	65	58	61	68	83	83	53	49	26	20
	52	33	28	18	14		14	19	23	29	36	58	75	100

X

128	118	112	¹⁰⁸ 108	85	75	70	60	63	70	82	79	43	29	09	04
87	76	69	34	25	21	16		14	20	24	28	36	62	78	100

X

116	103	96	91	75	66	60	63	69	83	78	93	30	109	00
100	76	49	31	21	14		13	19	22	28	27	63	80	100

Sta.	+	π	-	Elev.
		972.25		

57 +53

66.1

+67

66.0

X

+77

66.0

58

65.8

+17

65.7

+58

65.7

T.P.

4.93

970.53

6.65

965.60

59

65.6

+50

65.4

Lt.

C

Rt.

X

11.0	8.5	8.3	8.4	7.6	6.7	6.2	6.6	7.0	8.9	8.6	5.8	4.0	0.7
100	62	41	26	21	13		13	17	23	27	36	68	100

X

10.8	9.9	9.2	7.8	6.7	6.3	6.5	7.2	8.9	8.4	6.9	5.7	2.2
100	73	30	21	10		14	20	22	29	35	63	100

10.5	7.5	7.1	6.8	6.3	6.5	7.2	8.9	8.9	7.9	6.1	3.1	
100	62	35	10			13	19	22	28	33	66	100

7.8	7.3	7.0	6.5	6.9	7.4	9.1	9.0	8.3	6.9	5.5	
100	48	11			13	17	22	33	57	81	100

7.8	8.2	10.7	11.3	9.4	8.0	7.0	6.6	7.0	7.8	9.2	9.4	9.1	8.4	7.5	6.0
100	81	67	62	33	23	13		13	20	23	29	34	58	87	100

8.4	8.4	11.8	12.5	11.8	8.7	8.0	7.3	6.6	7.2	8.0	8.9	9.1	8.5	8.6	8.2	6.3
100	96	80	50	33	22	18	12		14	20	23	28	34	52	78	100

Shoulder

6.9	11.2	12.4	10.9	6.6	5.7	4.9	5.3	5.9	7.4	7.3	6.2	5.8	4.0
100	75	53	34	21	14		13	19	24	27	33	55	100

7.2	7.3	10.8	11.4	10.5	10.0	8.4	6.8	5.6	5.1	5.5	6.3	8.1	8.2	7.9	7.9	6.7	5.8
100	96	78	53	35	33	25	20	13		13	20	24	29	33	54	84	100

Sta	+	π	-	Elev
		970.53		

60				65.3
----	--	--	--	------

+30				65.2
-----	--	--	--	------

+60 X Drain				65.1
-------------	--	--	--	------

61				65.2
----	--	--	--	------

+40				65.4
-----	--	--	--	------

I.P.	4.93	969.92	5.54	964.99
------	------	--------	------	--------

+65				65.6
-----	--	--	--	------

Lt.

C.

Et.

X

75 93 104 108 101 89 67 58 52 58 66 100 103 96 96 90 85
 100 85 62 34 33 27 18 13 15 18 24 30 35 55 80 100

X

78 94 107 112 101 69 59 53 59 68 103 105 102 102 98 94
 100 85 62 35 32 18 12 13 19 26 30 36 55 78 100

X

956.53.

957.18.

140 108 128 94 70 61 54 59 65 103 108 133 125
 34 53 34 28 20 13 13 19 27 33 35 35
 Fl. 24°C.M. Fl. 20°C.M.

87 100 82
 81 82 100

108 108 110 112
 100 88 54 39

X

112 106 110 91 82 70 63 53 58 67 105 110 112 111
 61 52 31 26 23 20 15 13 18 26 31 54 100

123 123 113 87
 62 66 68 100

X

91 118 120 102 99 93 84 67 58 51 55 61 93 95 94 95 105
 92 81 76 58 42 37 27 21 16 13 21 28 32 48 69 100

X

88 118 110 93 72 69 53 47 43 47 53 67 68 66 56 66 96
 94 76 71 58 32 24 18 14 13 19 23 29 32 55 78 100

Sta + π - Elev

✓
969.92

61. +89

65.7

62

65.8

+37

65.7

+40

65.7

+69

65.5

63

65.3

+45

64.9

+67

64.6

X

Lt

Q

Rt

86 116 118 105 94 73 53 46 42 46 52 40 60 1.2 1.9 52 52
 96 82 78 67 58 33 19 14 15 22 26 28 37 59 87 100

86 119 119 95 80 73 46 41 45 59 56 0.0 0.7 5.7 6.7
 96 83 81 62 48 35 15 13 24 27 37 58 90 100

9.3 124 10.0 84 54 46 42 46 50 52 41 41.9 42.3 106 41
 100 84 69 53 22 16 15 19 26 31 40 69 89 100

Duplicate 437

42 46 50 52 41 0.8 0.2 0.5 0.1
 15 19 26 31 37 70 90 100

10.0 125 94 57 47 4.4 46 51 47 1.7 0.2 40.1
 111 94 67 27 16 15 21 28 36 72 100

40.6 13.0 10.0 8.8 6.9 4.9 46 51 56 51 20 1.0 40.7
 108 79 63 36 16 14 20 30 36 60 100

9.8 80 5.9 6.0 5.4 5.0 5.4 6.2 5.8 2.5 1.5 0.0
 100 65 29 20 15 14 22 27 35 58 100

7.8 42 2.8 6.2 6.4 6.1 5.7 5.3 5.7 6.5 6.4 2.9 2.3 0.3
 100 60 36 25 21 19 16 15 23 28 36 56 100

X

Sta.	+	π	-	Elev.
		969.92 [✓]		
64				64.1
+27				63.5
+60				62.5
65				61.3
+36				60.2
+78				59.1
T.P.	4.88	963.01 [✓]	11.79	958.13 [✓]
66				58.7
+15				58.4

Lt.

♀

Rt.

108 118 9.9 7.7 6.6 7.5 7.6 6.6 6.3 5.8 5.7 6.4 4.8 3.4 2.7 1.2 ✓
 100 66 50 36 33 29 23 17 12 20 22 26 36 55 100

134 135 122 100 81 84 70 44 6.5 7.9 7.6 4.1 3.9 3.3 ✓
 100 65 54 37 29 25 16 18 24 29 37 59 100

140 128 9.8 7.9 6.9 9.3 9.3 8.3 7.7 7.4 7.5 8.3 8.3 3.7 4.0 3.9 ✓
 100 77 50 42 33 27 23 19 14 15 23 30 39 63 100

14.6 108 6.8 6.6 10.2 9.1 8.6 8.7 9.3 9.3 3.8 3.1 1.9 ✓
 100 72 49 35 27 17 13 21 29 39 58 100

15.7 9.9 7.6 7.1 11.1 11.0 10.4 9.7 9.9 10.7 10.3 6.5 6.1 3.6 1.5 ✓
 100 68 50 35 28 23 18 14 20 30 37 55 82 100

13.8 10.6 9.6 12.6 11.6 10.8 11.2 12.5 12.3 6.6 7.8 6.5 ✓
 100 62 36 27 16 16 24 28 35 55 100

7.6 6.0 5.1 3.8 6.5 6.2 5.1 4.3 4.7 5.2 6.3 6.1 4.3 4.8 4.7 ✓
 100 76 56 37 28 22 17 15 20 22 28 35 50 100

8.2 6.1 4.3 7.2 7.2 4.8 5.1 4.6 4.7 6.8 6.8 5.6 6.2 5.3 ✓
 100 64 39 29 27 17 14 18 28 31 35 59 100

Sta.	+	π	-	Elev.
66 + 28		963.01 ✓		58.2

+38				58.0
-----	--	--	--	------

+39				
-----	--	--	--	--

+34				58.0
-----	--	--	--	------

+17.08 = 4 S.T.H. 36				57.7
----------------------	--	--	--	------

T.P.	1.83	953.46 ✓	11.38	951.63 ✓
------	------	----------	-------	----------

B.M.			6.89	946.57 (946.56)
------	--	--	------	-----------------

G. 22-44
K.H.
L.C.
C.F.
D.G.
B.S.

150

Lt

E

Rt

X

9.5 76 61 78 73 49 54 48 50 43 61 72 72 62 66 60
100 71 52 35 31 21 16 18 21 53 37 39 41 63 100

X

11.6 113 94 78 54 50 58 50 51 42 43 86 86 66 66 57
100 89 50 41 30 26 20 23 28 45 46 50 53 76 100

954.28

873

48 = FL. 24' CONC.

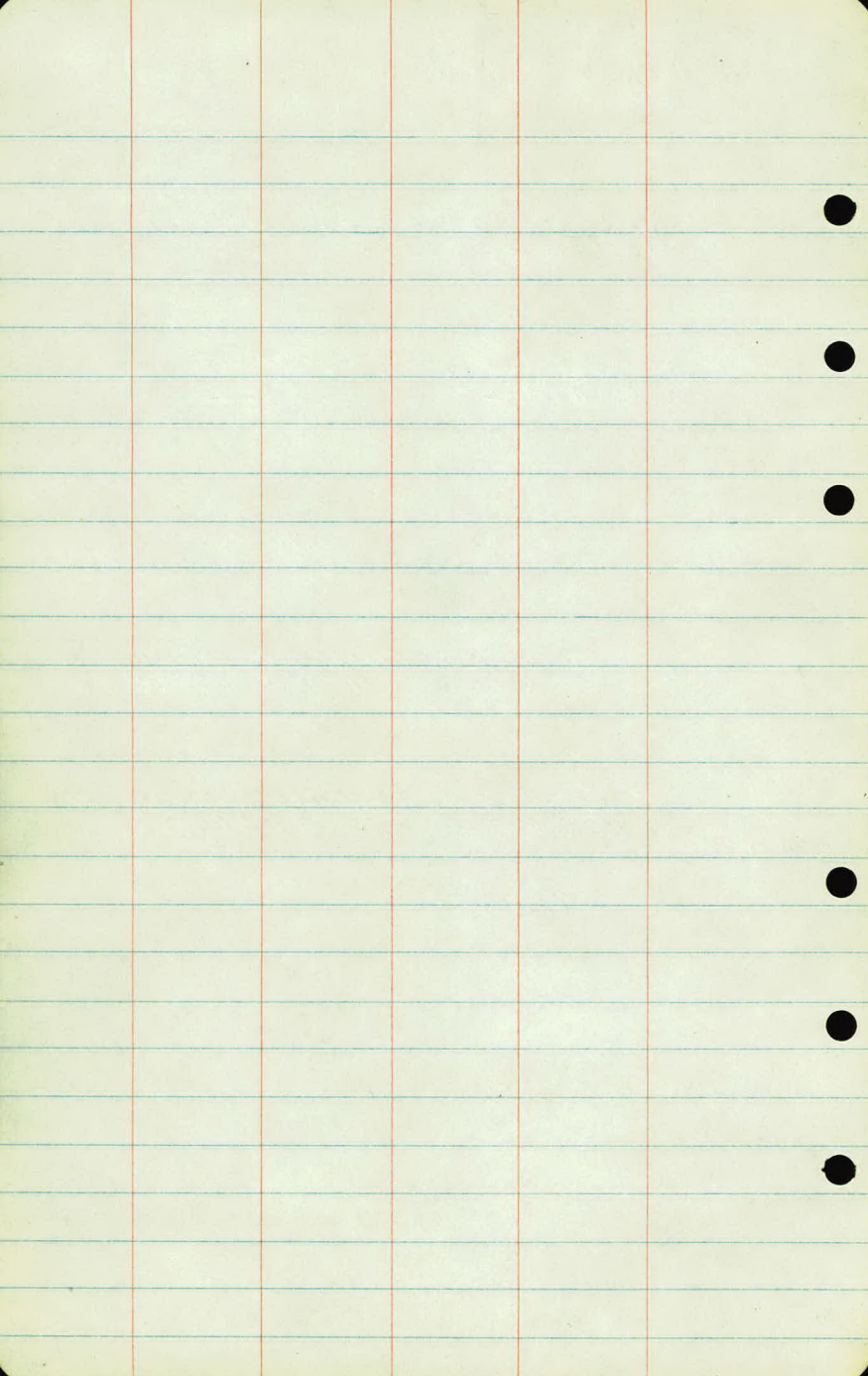
7.4 62 54 65 50 51 51 42 37 34
100 70 44 39 17 41 47 66 100

X

11.1 94 78 65 59 53 51 47 40 38 38
200 150 100 50 25 25 50 100 150 200

X

Spt. in 24" 0.75 Lt 72+30



Stadia
Cleveland Ave.

Object	Azimuth	Dist	Vert Ang.	Rod	Elev
--------	---------	------	--------------	-----	------

At sta 63				5.30	
-----------	--	--	--	------	--

To sta 75	0°00'				
FL. No. End 24" C.M.	242°30'	615'	-1°16'	5.30	

FL. Sta End 24" Cong. Culv.	241°45'	½=177'	-1°22'	11.0	
--------------------------------	---------	--------	--------	------	--

FL. No. End 24" Cong. Culv.	256°15'	½=158'	-2°36'	5.3'	
--------------------------------	---------	--------	--------	------	--

Drains North into Swamp

At sta 75				5.30	
-----------	--	--	--	------	--

To sta 70	0°00'				
-----------	-------	--	--	--	--

to Road	37°—	480'			
Edge Swamp	35°15'	260'	-2°38'	5.3	

S. End 24" C.M. Edge Swamp	35°50'	560'	-1°18'	5.3	
-------------------------------	--------	------	--------	-----	--

Edge Swamp N. End 24" C.M.	42°15'	540'	-1°20'	5.3	
-------------------------------	--------	------	--------	-----	--

to Rd.	38°45'	548'		11.8	
--------	--------	------	--	------	--

Edge Swamp	45°15'	595'	-1°12'	5.3	
------------	--------	------	--------	-----	--

" "	59°—	580'			
-----	------	------	--	--	--

to 3' Ditch	72°30'	622'	-1°20'	5.3	
-------------	--------	------	--------	-----	--

" " " " " "	75°—	660'	-1°—	7.0	
-------------	------	------	------	-----	--

Edge Swamp	89°30'	510'	-1°24'	5.3	
------------	--------	------	--------	-----	--

" "	117°—	482'			
-----	-------	------	--	--	--

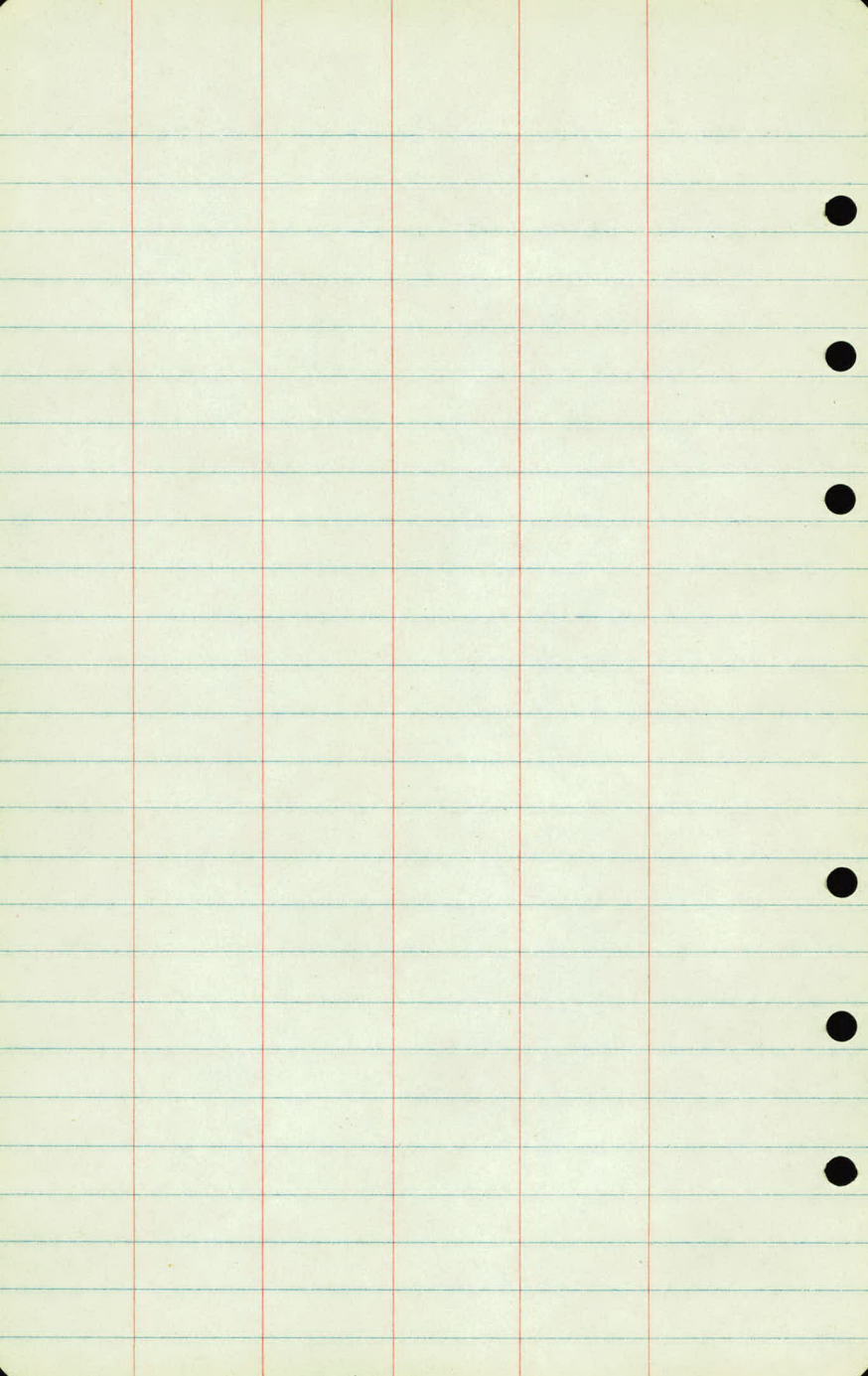
" "	130°—	585'			
-----	-------	------	--	--	--

" "	140°—	615'			
-----	-------	------	--	--	--

" "	155°—	½=330'			
-----	-------	--------	--	--	--

Object	Azimuth	Dist	Vert. Ang.	Rod	Elev.
--------	---------	------	---------------	-----	-------

Edge Swamp	158°—	810			
" "	170°—	1/2 = 365'			
" "	117° 30'	118			
" "	56°—	135			



X Sections
Cleveland Ave

Sta.	+	π	-	E/cv.
B.M.	7.63	954.19		(946.56)
T.P.	9.90	961.53	2.56	951.63

66 +77.08 = 85.T.H.36 951.7.

67 57.0

+36 55.7.

+70 54.3.

T.P. 0.63 954.03. 8.13 953.40.

68 53.4

+40 51.9

+65 51.0

6-28-44
K.A.
L.C.
C.N.
D.G.
D.S.

154

lt

g

pt

Spt in 24" 0.75" lt 72" 30

96 80 63 50 44 38 36 32 26 23 23
200 150 100 50 25 25 50 100 150 200

✓

60 53 47 55 45 42 32 28
100 82 47 40 41 42 100

✓

15.9 154 148 78 59 56 62 58 61 57 56 133 126 120
100 64 55 31 22 19 14 14 17 21 43 70 100

✓

14.4 146 160 153 79 76 72 73 75 125 155 16.0
100 86 53 33 20 12 11 17 28 42 100

✓

67 73 74 15 10 06 09 1.1 56 83 91 92 93
100 56 32 20 12 14 16 26 36 41 73 100

✓

94 98 78 27 25 21 24 27 57 76 111 117
100 56 30 18 14 11 16 23 30 53 100

✓

69 80 78 66 35 23 30 34 44 80 88 115 120 125
100 64 32 26 17 12 13 18 26 31 46 76 100

✓

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

954.03

69

49.8

+33

49.1

+50

48.9

+75

48.8

70

48.5

+29

48.3

+60

48.3

+85

48.4

Lt.

E

Rt.

54 57 65 75 48 45 42 47 50 103 117 123 125 ✓
 100 62 41 28 17 13 13 19 31 45 77 100

8.2 9.2 10.4 11.9 6.1 5.3 4.9 5.3 5.9 9.1 11.9 11.4 11.6 11.6 ✓
 100 68 36 32 20 13 13 19 25 35 46 70 100
 FL 29°C M FL 24°C M

8.9 11.2 10.9 6.4 5.8 5.1 5.3 5.9 9.7 10.3 9.8 9.6 9.6 8.9 ✓
 100 61 34 19 14 10 19 28 33 38 57 88 100

10.2 12.3 12.1 7.0 6.0 5.2 5.5 6.1 8.7 8.8 8.3 7.7 6.2 4.7 ✓
 100 60 32 19 13 14 19 25 26 30 52 74 100

11.6 12.9 12.4 7.0 6.0 5.5 5.7 6.3 7.8 7.8 6.0 5.0 0.8 0.0 ✓
 100 64 37 19 13 12 18 22 27 32 47 76 100

13.1 13.3 11.2 7.3 6.2 5.7 5.9 6.3 7.4 7.4 3.7 3.3 4.0 12.5 ✓
 100 67 31 20 13 12 17 22 27 36 47 77 100

14.2 12.1 10.6 7.1 6.1 5.7 5.8 6.6 7.7 7.0 9.4 9.0 2.7 10.3 11.3 ✓
 100 61 32 19 12 13 19 23 28 35 48 57 83 100

13.1 10.0 8.3 8.8 7.3 6.1 5.6 5.9 6.3 7.5 7.0 4.5 4.0 4.0 ✓
 100 63 30 27 21 14 14 17 22 28 34 49 100

Sta	+	π	-	Elev
		95403-		
71				48.5
+32				48.6
B.M.	8.49	955.05.	7.45	946.58. (946.56)
+64				48.8
72				48.9
+31				48.7
+59				48.7
73				48.5
+30				48.2

Sta	+	π	-	Elev.
		955.05 ✓		
73	+72			47.4
74				47.0
	+33			46.6
	+66			46.1
T.P.	5.12	948.15.	12.02	943.03.
75				45.6
	+24			45.2
	+41			44.8
	+68			44.1

K. shoulder

Lt.

E

Rt.

150/42/40/170/178/176/135/92/83/77/79/85/80/12/0.0
 89 77 63 51 46 42 30 22 14 11 25 28 44 100

X

184 148/138/138/175/169/131/93/87/81/84/92/86/35/20/0.5
 100 82 71 55 42 39 28 20 13 13 23 29 40 57 100

X

189 141/134/132/170/169/100/92/85/89/92/95/104/102/83/79/1.7
 100 80 68 54 46 38 21 14 12 16 19 22 28 34 54 100

X

184 139/129/130/160/102/95/90/92/98/111/109/97/93/76
 100 78 65 54 38 19 13 13 19 23 28 34 69 100
 2.5 to 76

X

127 65 57 69 89 89 54 35 30 26 30 37 47 46 31 35 44
 100 78 66 51 40 37 28 19 12 11 18 23 27 32 50 100

X

183 57 52 58 76 77 53 43 35 30 35 40 52 50 31 42 56 61
 100 76 60 48 39 34 27 20 13 12 18 23 28 33 43 74 100

X

133 5.2 5.2 39 34 39 46 60 57 37 45 60 68
 100 70 39 13 12 18 21 27 34 44 70 100

X

150 55 45 41 46 47 62 60 51 51 59
 100 59 13 11 18 22 27 33 54 100

X

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

		948.15.		
--	--	---------	--	--

76				
----	--	--	--	--

				43.1
--	--	--	--	------

+23				
-----	--	--	--	--

				42.4
--	--	--	--	------

+58				
-----	--	--	--	--

				41.4
--	--	--	--	------

TP				
----	--	--	--	--

	3.39			
--	------	--	--	--

		943.71.		
--	--	---------	--	--

			7.83	
--	--	--	------	--

				940.32.
--	--	--	--	---------

77				
----	--	--	--	--

				40.3
--	--	--	--	------

+36				
-----	--	--	--	--

				39.5
--	--	--	--	------

+64				
-----	--	--	--	--

				39.1
--	--	--	--	------

78				
----	--	--	--	--

				38.8
--	--	--	--	------

+32				
-----	--	--	--	--

				38.9
--	--	--	--	------

Lt

E

Rt

✓
 152 152 61 55 51 55 61 7.2 6.9 45 47 61 6.9
 100 82 33 13 11 18 22 27 32 52 76 100

✓
 150 150 129 71 62 58 6.2 6.9 78 7.6 5.2 5.9 9.1
 100 86 46 23 11 11 20 23 27 33 57 100

✓
 150 150 142 130 77 7.2 6.8 7.1 78 8.7 8.6 7.3 7.9 12.5
 100 78 43 37 21 12 11 20 23 27 30 55 100

✓
 10.4 10.8 9.5 51 40 34 37 47 6.5 7.4 7.0 8.8 8.9
 100 43 34 22 13 12 23 29 36 56 86 100

✓
 10.5 10.3 10.1 6.3 4.8 4.2 4.5 5.3 8.8 9.1 8.3 8.0
 100 64 36 23 12 13 22 33 39 75 100

✓
 12.5 10.4 9.7 9.3 6.4 5.4 4.6 4.8 5.9 9.0 10.4 8.9 7.9 4.9 11.1
 100 47 30 22 15 11 21 28 32 38 54 100 32
 F.L. 24" CM F.L. 24" CM

✓
 10.4 10.4 10.2 8.0 6.4 5.9 4.9 5.2 6.0 8.0 8.1 7.7 7.0 4.5 0.2
 100 74 34 27 21 16 13 20 26 29 31 50 73 100

✓
 10.3 10.4 10.5 9.5 6.6 5.7 4.8 5.1 5.8 7.4 7.1 6.3 3.9 0.0
 100 70 37 29 22 15 13 20 25 34 52 70 87

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

943.71 ..

78 +67

38.9

79

39.1

+50

39.2

80

39.6

+39

40.4

+69

41.2

81

42.1

+39

43.5

Lt

E

Rt

106 107 106 9.3 7.1 58 48 51 6.0 69 7.7 7.0 6.2 58 00
 100 65 35 28 23 16 14 19 24 28 34 39 55 80

L.O. 10.8 10.7 6.7 6.0 5.1 4.6 4.9 5.7 7.3 8.1 7.4 6.4 2.8 +11
 50 36 22 20 14 13 19 24 29 41 49 68 80

105 108 109 9.6 5.9 5.2 4.5 4.8 5.9 7.9 7.8 7.2 6.3 0.0
 100 68 38 29 21 15 14 20 24 28 40 54 84

105 107 109 9.6 5.8 5.2 4.1 4.3 4.8 7.2 7.5 7.5 6.9 3.0
 100 77 42 32 21 17 14 18 27 30 42 56 100

105 109 101 6.3 5.0 4.3 3.3 3.3 4.5 6.6 6.8 5.6 3.9 2.3
 100 50 36 24 20 15 11 20 28 52 72 85 100

106 108 104 9.9 4.4 3.7 2.5 2.5 3.2 5.2 5.5 2.1 +25
 100 78 42 34 19 15 12 18 26 48 72 100

107 107 108 9.7 5.2 3.7 2.7 1.6 1.8 3.7 3.7 +36 +94
 100 70 47 41 25 20 15 15 26 46 75 100

111 10.7 9.4 7.3
 100 61 44 35

(0.2)

Sta.	+	π	-	Elev.
		943.71.		

81 +69

(44.7)

82

(45.9)

T.P.	11.51	953.68.	1.54	942.17.
------	-------	---------	------	---------

81 +39

43.5

+69

44.7

82

45.9

+30

47.0

+65

48.2

83

49.6

T.P.-	11.40	961.99.	3.09	950.59.
-------	-------	---------	------	---------

6-28-44

160

Lt.

E

Bl.

10.8 10.6 9.3 6.8
100 68 47 37

(1.0)

X

100 9.6 9.0 5.5
100 80 56.39

(2.2)

X

E sta 81100

18.5 111 10.2 10.2 10.7 11.4 11.5 2.0 14.1 16.0
19 12 12 22 32 38 70 92 100

X

10.6 9.7 9.0 9.2 9.0 8.1 7.6 11.6 18.6
19 11 13 24 33 35 70 100

X

9.7 9.2 8.2 7.8 7.8 8.0 7.5 3.6 0.1
19 16 9 14 22 30 38 46

X

18.2 15.2 12.1 8.0 7.1 6.7 6.7 7.0 5.8
100 53 32 21 9 12 20 33

X

14.3 11.0 9.9 7.4 8.2 8.2 6.9 6.0 5.5 5.6 5.7 3.8
100 50 35 27 25 23 21 12 13 19 34

X

11.8 5.9 4.0 3.9 5.9 5.5 5.2 4.5 4.1 4.3 4.0 4.4 4.1 3.1 1.1
100 58 40 33 28 25 20 11 12 21 22 25 26 38

X

Sta.	+	π	-	Elev.
		961.99.		

82

(45.9)

+30

(47.0)

+65

✓

83

✓

+35

50.9

+70

52.0

+96

52.8

84

52.9

Lt.

C

Et.

$$\begin{array}{r} \textcircled{-16.1} \quad 8.0 \quad 2.9 \quad +4.8 \quad \checkmark \\ 46 \quad 70 \quad 100 \end{array}$$

$$\begin{array}{r} - \textcircled{15.0} \quad 1.3 \quad +1.5 \quad +5.8 \quad \checkmark \\ 58 \quad 70 \quad 100 \end{array}$$

16.2 9.0 7.1 12.4 12.2 11.5 11.1 11.2 11.3 11.9 11.9 10.7 9.0
100 60 37 27 23 12 12 23 24 26 27 35

15.6 15.1 11.5 9.6 8.0 11.5 10.8 10.3 10.0 10.0 10.0 11.2 10.0 9.4
100 86 70 53 34 27 20 11 14 23 25 27 32

Duplicate sta. 84

9.2 9.2 8.8 10.1 10.1 8.3 8.1
14 22 23 26 26 33

11.1 10.6 10.7 9.6 10.4 10.5 9.8 9.1 9.1 8.8 9.9 9.9 8.2 7.0 5.0 1.4
100 91 44 37 29 22 13 13 22 23 26 26 35 51 53

Sta	+	π	-	Elev
		961.99		

84	+04			53.0
----	-----	--	--	------

	+30			53.8
--	-----	--	--	------

	+55			54.5
--	-----	--	--	------

85				55.7
----	--	--	--	------

	+22			56.2
--	-----	--	--	------

	+51			56.8
--	-----	--	--	------

	+80			57.4
--	-----	--	--	------

86				57.7
----	--	--	--	------

Lt.

E

Pt.

Duplicate sta 84

 90 90 99 98 85 79
 23 23 26 26 33

X

X

 6.0 9.7 102 9.4 87 82 83 89 9.2 8.1 +2.3 +2.6 +3.6
 100 57 34 20 11 14 23 25 32 52 70 100

X

 42 81 9.2 8.7 80 75 76 82 86 8.0 +0.6 +2.6 +4.3
 100 61 34 20 11 14 23 25 29 47 70 100

X

 6.2 38 48 6.6 8.4 7.4 6.7 63 6.6 7.3 8.0 7.6 30 1.0 +2.5
 100 82 53 30 27 19 11 17 21 23 28 38 69 100

X

X

 65 4.9 5.3 6.2 8.0 8.1 7.3 6.3 58 6.0 7.0 7.6 7.5 57 4.1 3.6 0.0
 100 81 55 32 27 24 20 13 16 21 23 29 31 35 55 100

X

 11.0 9.4 8.0 7.5 7.9 8.0 6.9 6.2 5.5 5.2 5.4 5.8 6.9 6.6 4.3 4.1 0.0
 100 83 53 29 28 25 20 16 11 16 20 23 28 32 57 100

X

 Plains 13.4 100 88 7.7 6.2 5.0 4.6 4.7 5.4 6.5 5.9 5.2 5.0 4.3 2.4
 West 100 55 31 25 20 12 15 20 24 29 31 41 71 100

X

 13.3 9.2 8.1 7.4 5.4 4.7 4.3 4.3 5.0 6.0 5.6 5.0 4.6 1.9
 100 52 29 25 18 12 17 21 23 28 29 59 100

Sta	+	π	-	Elev
		961.99.		
86	+37			58.4
	+63			58.6
87				59.1
T.P.	13.12	972.17.	2.94	959.05.
82	+65			48.2
83				49.6
	+35			50.9
	+70			52.0
	+96			52.8

Lt

Q

St

10.7 11.1 9.5 6.7 6.3 5.1 4.6 4.2 3.6 3.5 4.1 4.7 4.4 3.3 1.4 X
 100 92 82 51 31 26 18 12 15 21 23 34 52 100

9.3 9.8 6.6 6.1 5.1 4.4 3.9 3.4 3.3 3.2 4.6 3.2 2.7 1.05 X
 100 89 51 30 29 17 12 13 19 22 26 52 100

8.5 7.8 8.0 7.0 4.9 4.3 3.6 2.9 2.9 3.4 4.0 3.9 2.8 0.8 +1.2 X
 100 83 58 31 25 19 13 11 20 22 26 29 57 100

-24.0 5.6 5.3 +2.0
 67 70 100

✓

-22.6 2.9 2.5 +3.9
 70 75 100

✓

-21.3 4.2 4.0 0.5
 66 70 100

✓

-20.2 6.4 6.1 6.6
 59 70 100

✓

-19.4 7.6 7.1 6.3
 56 70 100

✓

Sta	+	π	-	Elev
		972.17.		
84				(52.9)
+04				(53.0)
T.P.	6.11	965.16 965.17.	13.12	959.05. 960.74.
B.M.	4.27	964.97.	4.42	960.75 (960.70)
87 + 32				59.4
+ 77				59.9
88				60.3
+ 33				60.6
+ 60				60.9
+ 85				60.9

Lt

E

Rt

-19.3

11.0 10.8 10.1
59 70 100

✓

-19.2

8.1 7.8 7.3
55 70 100

✓

Spt. in 8" Trip. Elm 36' Rt sta 88+32

X

10.7	95	96	96	70	61	56	56	65	20	70	65	56	5.0
100	81	65	30	21	14		16	20	21	29	29	62	100

2.2	38	30	52	68	68	53	54	51	51	68	65	66	6.0
100	80	53	31	27	24	15	10		18	23	30	60	100

X

8.8	39	1.8	33	61	51	5.0	47	5.0	54	6.9	6.3	6.2	5.9
77	77	51	32	25	14	10		18	20	21	50	78	100

X

9.6	57	5.0	6.2	52	48	4.4	4.7	52	5.8	5.5	4.2	2.8
100	55	30	24	17	11		18	21	22	30	60	100

X

11.7	11.6	74	6.1	5.6	4.9	4.6	4.1	4.4	4.7	3.1	6.6	+1.0
100	90	50	27	21	17	10		19	25	50	76	100

X

15.1	11.0	73	55	58	50	44	4.1	4.3	5.0	4.6	2.4	1.7	+1.8	+2.6
100	79	51	31	29	17	10		18	23	29	36	50	77	100

X

Sta.	+	π	-	Elev.
		964.99.		
89				60.9
+56				60.7
90				59.9
+30				59.1
+70				57.8
T.P.	13.43	973.41 923.51	4.99	959.98 960.08
89				(60.9)
+50				(60.7)
90				(59.9)

Lt

E

Et.

16.4 10.5 6.6 4.2 5.4 4.8 4.4 4.1 4.3 4.5 1.0
100 77 53 31 28 16 9 17 28 37

✓

15.2 5.3 1.7 5.4 5.0 4.6 4.3 4.7 5.9 5.5 0.9
100 62 35 27 20 9 19 24 28 36

✓

13.0 11.2 4.8 2.2 5.4 6.2 6.0 5.5 5.1 5.4 5.9 7.0 6.6 3.0
100 87 59 37 29 25 19 8 15 20 24 28 36

✓

14.4 4.0 2.9 6.4 6.8 6.1 5.9 6.0 6.5 7.7 7.6 4.6
100 54 37 28 19 8 14 19 23 28 35

✓

16.4 10.1 5.1 4.4 8.7 7.7 7.2 7.5 8.0 9.3 9.1 4.3
100 73 53 35 24 9 14 19 23 28 37
Top M.H. 41. 80+

✓

-12.5 7.5 4.2
63 100

✓

-12.7 3.2 3.5 4.5
47 70 100

✓

-13.5 1.5 1.5 3.1
56 85 100

✓

Sta.	+	+	-	Elev.
90 + 30		973.41 973.51		(59.1)
+ 70				(57.8)
T.P.	253	962.51 962.61	1343	959.98 960.08
91				56.3
+ 50				54.2
T.P.	313	955.21 955.31	10.43	952.08 952.18
B.M.		X	0.95	954.26 954.36
92				(954.31) 52.0
+ 21				51.1
+ 60				49.4
93				48.1
T.P.	335	947.49 947.59	11.07	944.14 944.24

Lt.

±

Rt.

-14.3

2.7 1.9 3.2 ✓
51 71 100

-15.6

8.2 6.6 4.8 ✓
46 73 100

17.4	13.5	5.8	4.2	7.5	6.8	6.6	6.2	6.2	6.5	7.9	7.2	1.3	0.9	+2.0
100	78	50	34	27	16	7			14	18	23	28	41	67
														100

21.6	20.6	10.7	8.7	8.3	8.6	9.3	9.3	7.5	6.1	5.0	2.0
100	85	28	12		19	23	25	28	32	56	100

Top of G.L. Pipe Line Sta. Marker 25 21. Sta 91 + 54

16.2	15.0	11.4	4.0	3.7	3.2	3.3	4.0	2.4	2.2	2.1
100	78	33	16	9		14	24	52	66	100

15.7	14.9	13.8	11.6	5.5	4.9	4.8	4.1	4.3	4.6	5.4	5.1	4.1
100	78	43	32	19	16	10		13	19	25	52	100

17.0	13.0	11.8	6.8	6.4	5.8	6.0	7.4	6.9	6.1
100	70	31	17	11		18	24	56	100

23.6	20.9	11.7	10.0	7.9	7.7	7.1	7.2	7.4	8.1	7.6	7.6	5.7
100	87	47	29	18	8		13	19	23	42	68	100

Sta	+	π	-	Elev.
		947.49		
		947.59		

93 +50

46.2

+75

45.2

94

44.1

+50

41.8

95

39.7

T.P.

4.24

940.76

941.06

10.77

936.72

936.82

+50

38.1

96

36.7

+50

35.6

Lt.

£

Rt.

X

20.2	14.7	10.0	25	1.7	13	1.3	1.5	3.1	3.2	18	+1.9
100	60	33	16	9		13	18	24	55	76	100

22.4	18.0	13.2	34	28	2.3	2.6	4.4	4.6	3.2	+1.0
100	67	37	14	8		17	23	42	72	100

X

22.2	19.5	14.9	4.4	37	34	3.6	4.0	6.2	7.1	6.2	4.7	1.2
100	71	38	15	8		14	19	29	40	58	74	100

X

22.3	20.1	16.7	6.7	6.1	5.7	5.8	6.2	9.6	9.2	10.0	9.6
100	62	35	15	8		14	18	30	39	75	100

X

22.7	21.9	18.9	9.2	8.2	7.8	8.0	8.6	11.3	12.8	12.8	11.5
100	72	37	17	9		13	18	26	34	56	100

X

15.9	15.8	12.8	4.2	3.4	2.9	3.1	3.7	8.1	9.0	9.0
100	62	34	17	8		13	19	31	60	100

X

14.7	13.3	11.1	5.6	4.6	4.3	4.7	5.3	8.0	9.0	10.1	9.6
100	56	30	16	8		13	19	26	32	56	100

X

12.8	13.2	9.7	6.2	5.6	5.4	5.7	6.1	8.0	9.1	11.2	11.4	10.5
100	70	31	18	8		13	18	23	27	41	72	100

X

Sta	+	940.96 941.06	-	Elev.
97				34.3
+50				33.4
T.P.	3.37	936.05 936.15	8.28	932.68 932.78
98				32.7
+50				32.1
+75				31.6
99				31.2
B.M.	8.32	934.21	10.13	925.92 926.02 (925.89)
+50				30.5
100				29.9

X

Lt.

£

Rt.

10.9 13.5 11.6 10.6 7.4 6.9 6.7 6.9 7.8 10.7 12.0 12.7 12.5
100 57 28 26 17 8 14 21 32 40 67 100

11.7 14.1 13.7 8.6 7.9 7.6 7.9 8.8 14.0 14.0 14.4
100 71 31 17 8 13 20 43 74 100

8.1 8.8 9.1 9.1 4.5 3.6 3.4 3.7 4.6 9.4 9.8 10.5
100 90 56 29 19 8 15 20 34 62 100

8.0 7.0 7.2 7.8 5.0 4.2 4.0 4.4 5.1 7.8 9.6 10.7 10.6
100 68 48 31 17 8 11 17 25 33 60 100

5.0 4.5 4.8 5.5 4.7 4.5 4.8 5.6 9.7 10.9 11.1 10.8
100 63 28 22 9 11 18 33 41 80 100

5.0 3.4 4.5 5.1 5.1 4.9 5.2 5.9 9.8 10.8 11.4 10.9
100 69 29 21 9 12 18 32 36 68 100
U.S.C. & G.S. # 613 36" Rt 50 101 + 80

2.7 1.8 2.6 3.3 4.1 3.8 3.7 3.9 4.8 9.1 9.5 9.4 9.4
100 80 52 21 16 9 10 19 34 54 81 100

3.9 2.3 0.8 2.4 4.6 4.5 4.3 4.6 5.5 7.8 8.5 9.1 8.3
100 88 65 36 20 9 11 21 28 35 65 100

Sta	+	T	-	Elev
		939.21.		
100 + 30				29.5
+ 65				29.0
				.
101				28.4
+ 30				27.5
+ 70				26.2
102				25.2
T.P.	1.87	927.76.	8.32	925.89.
+ 30				24.1
+ 60				22.9

Lt.

±

Rt.

2.5 2.1 2.0 2.5 5.0 4.9 4.7 5.1 5.7 6.4 7.4 8.2 7.4
100 84 56 34 21 9 12 21 27 36 72 100

2.1 3.1 5.7 5.4 5.2 5.4 5.0 5.3 5.6 6.7 X
70 36 19 9 12 30 60 86 100

4.1 4.7 6.2 8.4 7.8 6.6 6.0 5.8 6.1 6.9 7.8 7.4 + 0.4 1.2 4.7
100 56 29 26 24 16 10 11 20 22 27 43 58 81
75
100

9.7 9.0 5.9 6.2 8.0 8.4 8.6 7.7 7.0 6.8 6.7 7.1 7.5 8.8 8.7 8.1 4.8 0.0 1.7 5.0
100 72 49 37 30 27 22 19 13 9 10 17 22 25 29 36 45 61 80
87
100

12.1 8.6 6.0 5.4 9.9 10.1 8.9 8.3 8.1 8.0 8.2 9.0 10.1 10.3 9.8 5.8 7.3 9.6
79 51 44 38 28 22 19 14 10 11 19 22 25 28 37 58 82
133
100

14.4 13.2 9.8 7.3 7.6 11.5 11.6 9.9 9.3 9.0 9.3 9.9 11.6 11.8 12.5 13.1 12.0
100 74 53 42 37 27 23 17 10 12 18 23 32 37 58 100

5.0 3.0 3.8 4.2 6.4 4.4 3.9 3.7 3.9 4.5 6.6 8.6 9.3 9.1 9.4
55 50 44 33 27 17 10 9 17 24 34 57 81 100
90 92
89 100

11.3 11.0 6.7 5.9 7.0 6.9 5.5 4.9 4.9 5.1 6.3 10.8 11.3 11.2 11.4
100 77 51 31 27 21 18 13 11 20 34 45 80 100

Sta	+	π	-	Elev
		92276		
102	+80			22.2
103				21.2
+01				14.81
+09		Top S. Rail		20.91
+14		Top N. Rail		20.91
+19		Parallel to tracks		20.8
+29		outlet 18" vit.		14.8
+28		Parallel to tracks		20.6
+62				19.6
T.P.	2.87	921.02	9.61	9/8.15
104				18.1

Lt

E

Rt

X

12.0	10.9	7.8	6.2	5.6	5.6	5.8	6.5	11.1	11.3	11.5	11.2
100	60	25	17	11		10	18	31	61	86	100

X

7.8	7.8	7.8	8.5	6.8	6.6	6.6	6.5	6.9	11.3	13.0	11.0	10.6	11.3
100	80	59	37	19	12		10	19	27	29	32	67	100

12.95 in/dt 18" vit

6.95
156.85 6.90
157.00
156.85 6.90
15

X

9.2	9.0	9.0	7.6	7.0	7.0	7.1	7.4	8.9	8.4	8.4
100	62	37	25	13		11	16	25	54	100

13.0
25

13.6	13.6	12.2	11.3	7.8	7.4	7.2	7.6	8.3	11.8	13.3	11.9	12.6
100	81	60	34	19	13		11	18	25	26	29	60

12.5
100

X

16.4	16.6	15.7	11.8	9.1	8.6	8.2	8.6	9.4	13.4	13.9	14.0	13.7
100	92	66	29	19	13		10	20	31	58	85	100

X

12.5	12.9	11.0	8.6	7.0	3.4	2.9	3.1	4.0	7.7	8.0	7.1
88	77	56	44	30	15		11	20	33	58	100

8.3
100

Sta	+	Δ	-	Elev
		921.02		
104 + 37				16.3
+ 71				15.2
+ 85				14.8
105				14.4
+ 16		$\pm$ Co. Rd. "C"		14.4
B.M.		662	914.40	914.91

Lt. £ Rt.

X

8.2	9.7	8.8	5.7	5.1	4.5	4.8	4.9	7.4	8.8	7.7	6.9
100	70	44	21	16		12	17	28	50	78	100

X

8.3	8.5	9.2	7.4	6.4	5.8	5.9	6.3	8.9	9.1	8.8	8.6
100	80	52	26	12		11	20	32	50	80	100

X

10.6	9.9	8.9	7.3	6.8	6.2	6.3	7.0	9.2	(Inlet) 10.0	8.3	7.2	6.9
100	60	40	27	18		17	30	46	48	52	77	100

X

8.9	7.9	7.2	6.6	6.2	5.9	5.1
100	50	25		25	50	100

X

10.3	9.5	8.5	7.6	7.1	6.6	6.2	5.6	4.7	3.8	2.8
200	150	100	50	25		25	50	100	150	200

Top Man. Co. Rd. "C" + Cleveland Ave

Sta + π - Elev

x-sections

CLEVELAND - AU.

Co-RD D. TO 6TH NEW BRIGHTON

Sta	+	π	-	Elev.
B.M.	240	916.81		914.41 ✓

105+16.05			2.40	914.41
-----------	--	--	------	--------

$\begin{matrix} 30 \\ \times \\ 2 \end{matrix}$
 +2808 Edge Pav.

14.33

+38

14.2

+46

14.0

+55

13.8

+76

13.4

106

12.9

+50

12.5

7-25-44
K.A.
L.G.
C.F.
D.G.
B.S.

lt. £ Rh

Top Mont. Co. Rd "C" + Cleveland Ave.

4

438 345 248 152 057
100 50 50 100

✓

4.7 3.9 3.0 2.6 2.3 2.0 0.9
100 60 25 25 50 100

✓

7.2 6.3 5.5 3.3 2.8 2.8 4.6 3.8 3.1
100 68 35 16 20 44 75 100

✓

6.5 5.8 5.8 4.1 3.3 3.0 3.2 3.6 6.7 6.8 7.3 5.3 3.2
100 45 26 19 11 11 19 38 45 47 52 100

✓

3.6 2.7 5.4 6.6 6.4 4.4 3.7 3.4 3.7 4.5 7.3 6.9 3.7
100 49 34 31 24 16 11 11 17 28 52 100

✓

3.5 2.9 3.6 6.6 7.3 4.7 4.0 3.9 4.0 4.5 8.0 7.7 6.8 5.4
100 49 43 31 26 18 11 10 14 28 49 73 100

✓

4.2 3.4 3.9 7.3 7.5 5.4 4.5 4.3 4.8 5.4 9.2 9.6 9.4 9.0
100 63 37 28 25 19 11 11 15 23 44 75 100

✓

Sta + π - Elev
916.81

107 12.2

+50 11.9

+85 11.7

108 11.6

+32 11.4

+68 11.1

109 10.9

+50 10.5

Lt

E

Rt

47 41 41 69 77 74 53 49 46 51 59 85 101 109 111
100 74 33 29 25 23 19 11 10 18 23 26 48 67

X

132 86 57 46 44 65 83 84 58 52 49 54 60 96 110 113 108
94 86 72 59 33 31 27 23 19 10 11 16 24 48 66 100
Water

X

13.1 60 50 8.7 8.6 60 54 51 55 6.1 9.8 109 115 114
78 62 33 28 24 18 9 11 16 29 49 75 100
Water

X

13.1 10.5 8.3 9.3 8.9 6.2 5.4 5.2 5.5 5.8 9.3 10.7 11.5 11.5
60 37 29 26 23 17 9 11 18 30 51 75 100
Water

X

152 132 122 108 6.2 5.6 5.4 5.7 6.0 5.5 5.7 8.6 9.7 11.0 11.8
75 52 39 30 18 9 11 23 26 32 40 50 75 100

X

15.5 13.2 12.0 10.8 6.5 6.9 5.7 5.9 6.2 6.1 9.2 11.1 11.5
70 42 36 31 18 9 12 23 46 57 80 100

X

15.5 13.2 11.4 7.0 6.3 5.9 6.2 6.4 5.8 5.6 5.0 9.0 10.4
63 39 31 18 9 12 27 35 51 53 67 100

X

15.7 13.1 11.3 9.1 7.2 6.7 6.3 6.6 6.9 6.7 5.5 1.7 2.5 6.6
63 38 33 25 18 9 12 24 42 51 56 64 100

X

Sta	+	π	-	E/er
		916.81		

110				10.0
-----	--	--	--	------

+40				09.5
-----	--	--	--	------

+70				09.1
-----	--	--	--	------

111				08.8
-----	--	--	--	------

+50				08.2
-----	--	--	--	------

T.P.	3.38	910.60	9.59	907.22
------	------	--------	------	--------

112				07.2
-----	--	--	--	------

+28				06.6
-----	--	--	--	------

LH

G

RH

✓

143	131	112	89	79	72	68	72	75	72	72	62	39	43	91
70	40	32	24	21	11	12	21	29	44	52	56	68	100	

✓

157	130	114	92	83	77	73	77	78	71	70	+15	60
70	46	33	25	18	9	11	22	33	43	60	100	

✓

154	131	112	96	86	80	77	81	78	73	53	43	52
70	49	30	24	17	9		12	29	42	51	62	100

✓

156	132	124	113	92	87	85	80	82	84	81	78	54	+21	74
72	49	44	31	22	17	9		12	22	33	45	54	62	100

✓

166	131	122	99	91	86	88	88	87	72	00	87
66	37	30	20	9	12		27	43	50	61	100

✓

34	37	41	32	31	102	122	35	+17
12	20	35	49	54	78	90	100	

✓

40	43	48	40	36	22	22	+38
11	25	37	48	52	86	100	

Sta	+	π	-	Elev
		910.60 [✓]		

112 +60

05.9

113

57

04.9

114

6.9

03.7

115

6.7

03.9

X Sections

Cleveland Ave.

112 to 140

Sta.	+	π	-	Elev.
B.M	4.34	909.45		(905.11)
112	+60			905.9
113				05.0
	+50			04.1
114				03.8
	+28			03.8
	+60			03.7
115				03.9
	+40			04.4

Lt.

E

St.

U.S.G.S. B.M. 6-14 30' Lt. 118+58

L.O. 90 80 70 63 53 44 41 36
50 32 26 23 21 15 10

X

L.O. 94 88 62 57 51 45 48 51 69 73 83 83
50 29 21 17 10 11 16 22 25 37 50

X

L.O. 102 102 83 68 66 62 59 54 57 59 64 88 93
50 31 24 21 19 14 10 10 14 17 30 50

X

L.O. 102 98 89 69 68 64 61 57 62 67 82 93 L.O.
50 30 24 18 16 12 9 10 17 21 42

X

FL. 7

FL. 24' CM.

L.O. 97 93 98 71 64 60 57 61 63 68 90 95 L.O.
50 29 25 20 13 10 11 15 17 18 40

X

L.O. 93 93 88 70 68 65 61 58 61 63 68 69 79 97 L.O.
50 30 27 20 16 12 9 11 14 18 20 23 46

X

L.O. 93 92 82 67 66 62 59 56 58 60 70 73 79 79 L.O.
50 30 25 21 19 14 9 10 15 21 22 31 45

X

L.O. 88 78 68 45 60 56 51 54 57 66 67 L.O.
50 26 23 21 14 10 11 18 23 25

X

Sta	+	π	-	Elev
		909.45		

115 + 75

04.8

116

05.0

Lt.

E

Bh.

L.O. 8.3
5072 60 55 52 47 50 58 61 5.9 5.1
28 23 17 9 11 19 24 42 60

+

L.O. 79
5074 62 53 50 45
31 25 17 9

+

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

4

不

1

Elev.

Lt.

E

Rt.

✓

47 50 58 70 72 68 52 45
11 21 26 39 62 87 100

Sta	+	π	-	Elev
		910.60 ✓		

115 +

116

04.9

+50

05.3

117

05.7

B.M.

6.55

911.66 ✓

5.49

905.11 ✓

(905.11)

+50

06.0

118

06.2

+50

06.5

Lt

4

Rt

x

57 6.0 6.1 7.0 6.9 5.9 5.5 2.4
10 20 23 26 31 47 75

x

8.8 8.3 7.5 6.9 5.8 5.6 5.3 5.4 5.6 6.5 6.3 5.3 49 + 28 + 24
100 59 33 23 16 9 10 17 22 28 30 49 59 100

x

8.1 7.5 7.3 6.2 7.0 7.0 5.7 5.2 49 5.2 5.5 5.7 5.7 4.7 4.3 42.2 41.5
100 83 55 25 24 21 18 9 11 21 24 27 31 49 57 100
USGS Mont B.M. 6-14 30 Lt 118 + 58

x

9.1 8.0 7.3 6.5 8.7 8.2 6.6 6.0 5.7 5.8 6.2 6.8 6.3 5.7 4.9 0.0 0.0
100 65 44 26 22 20 17 9 9 21 23 28 30 50 56

9.9 8.0 6.8 5.3 6.0 7.9 8.1 6.7 5.9 5.5 5.9 6.3 6.8 6.6 5.4 4.5 4.2 4.0
100 65 37 30 28 24 22 18 13 16 23 24 26 29 50 56 100

Lt

10.2 8.2 7.6 6.6 6.6 8.4 8.2 6.3 5.7 5.2 5.6 6.4 7.0 7.1 5.6 4.8 4.3 4.0
90 55 39 33 27 23 21 17 12 16 21 22 26 30 50 55 82 100

Sta	+	π ✓ 914.66	-	Elev
-----	---	-------------------	---	------

119				06.2
-----	--	--	--	------

X

+50				06.8
-----	--	--	--	------

120				06.9
-----	--	--	--	------

+50				07.0
-----	--	--	--	------

121				07.0 ✓
T.P.	8.31	915.28	4.69	906.97

+40				06.8
-----	--	--	--	------

+18				06.8
-----	--	--	--	------

122				06.7
-----	--	--	--	------

11

2

21

+

104 84 7.7 5.6 5.2
81 37 27 18 10

5.5 5.2 5.7 7.3 7.2 6.5 5.7 4.7 3.7 0.0
11 20 23 25 28 30 50 68 100

+

10.1 9.2 8.2 7.3 5.8 5.1 4.9 5.3 5.5 7.2 6.7 6.2 5.5 3.1 1.5
60 35 27 21 17 8 15 19 22 28 30 50 86 100

+

10.3 9.1 8.9 8.1 7.3 6.0 5.2 4.8 5.1 5.4 6.9 6.9 6.4 5.5 4.6
60 34 32 27 22 17 9 11 18 21 27 29 50 75

+

10.2 8.9 8.5 7.9 5.9 5.3 4.7 4.9 5.2 6.7 6.7 6.3 5.6 4.6
65 32 28 25 16 13 11 18 24 27 30 51 75

+

9.5 8.7 8.1 7.2 5.8 5.2 4.7 4.8 5.0 5.3 6.4 6.3 5.8 5.2 3.2
80 36 32 23 18 13 11 16 19 22 28 30 50 90

+

12.8 11.9 11.3 11.0 9.1 8.8 8.5 8.7 8.9 10.1 10.1 9.6 8.9 8.0 6.3
75 36 33 24 18 11 14 18 22 24 28 30 50 75

+

11.6 10.8 10.6 11.3 11.1 9.5 9.0 8.5 8.7 9.1 9.2 8.5 8.1 6.3 4.7 4.4
75 41 33 27 23 18 13 14 20 24 32 50 53 79 92

+

10.6 10.0 9.0 11.5 11.3 9.6 9.1 8.6 8.7 8.8 9.3 9.3 8.6 8.1 4.8 4.2 3.0
75 50 33 27 22 17 15 11 17 21 23 29 48 54 71 90

Sta	+	π ✓	-	Elev
		915.28		

122+32

06.7

+56

06.5

123

06.1

+33

05.9

+63

05.8

+77

05.7

124

05.6 ✓

B.M.

10.17

905.11

(905.11) ✓

X

7-26-44

182

Lt.

E

Et.

X

86 65 116 117 115 93 89 86 88 91 88 83 33 22 1.0
75 34 25 24 21 14 9 10 19 32 48 57 75 95

X

82 48 51 111 111 95 91 88 9.0 90 89 81 1.5 107
84 44 34 24 19 14 9 10 17 35 49 58 95

X

72 64 97 62 60 114 121 117 98 94 92 93 93 102 88 75 +3.7 +5.4
100 84 73 64 33 25 23 21 16 8 10 26 34 42 52 61 86 6.0.

63 80 106 67 64 117 129 123 103 97 94 96 96 97 92 83 +
100 75 66 53 33 26 23 19 16 9 15 28 38 44 46
74 +5.7 +7.2
50 63 100

X

57 65 98 62 62 121 129 117 104 99 95 98 100 104 96 75 +3.7 +5.2
100 80 61 44 34 26 23 19 17 9 10 19 27 43 51 65 100

X

55 64 96 61 66 120 130 121 103 99 96 100 103 106 97 82 +0.6 +5.0 +5.5
100 74 57 44 34 26 22 19 16 9 11 25 36 45 50 61 87 100

X

68 75 98 90 84 120 132 119 106 100 97 10.2 99 106 102 41 24 00 +4.0
100 67 54 46 33 27 22 19 16 12 15 30 32 49 56 70 76 100
USGS B.M. # 6-14 30' Lt 118 +58

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

Elev.

X Sections
Cleveland Ave.

Sta	+	π	-	Elev
B.M.	4.14	909.25		905.11
124 +45				05.4
+80				05.0
125				04.8
+50				04.5
126				04.3
+50				04.2
127				04.1
+50				04.1

9-1-44

134

Lt

L

Lt

U.S.G.S B.M. 6-14 30' Lt 118+53

58 5.0 57 5.7 72 72 64 48 42 39 42 44 50 55 49 42
 60 41 39 38 29 26 22 18 11 11 19 20 28 30 50

X

71 80 77 80 80 61 59 46 43 46 49 65 74 77 71 64 67
 60 36 31 27 23 20 18 11 11 19 23 28 33 38 41 60

X

9.6 8.6 9.1 8.6 74 50 47 44 54 7 50 74 8.4 L.O.
 60 40 37 30 25 17 12 12 19 24 35

X

10.4 10.1 10.4 10.1 7.1 65 56 51 48 50 54 62 9.2 10.0 10.0
 60 48 39 33 22 21 17 12 12 16 20 28 35 60

X

11.2 11.1 10.1 7.1 55 54 50 53 5.7 8.5 11.1 11.0
 60 36 29 21 15 11 12 17 26 36 60

X

11.7 11.6 11.1 7.1 5.7 5.9 5.1 5.5 5.9 8.1 11.0 11.0
 60 39 30 21 16 11 12 18 24 32 60

X

12.1 12.1 11.4 7.1 57 55 52 55 5.9 8.5 11.5 11.1
 60 41 31 20 16 12 12 17 23 32 60

X

12.1 12.1 10.1 7.1 58 55 52 54 58 11.0 12.0 12.5 12.3
 60 38 29 20 15 11 12 18 29 36 46 60

X

Sta	+	π	-	Elev.
		909.25		

128				04.1
-----	--	--	--	------

+50				04.0
-----	--	--	--	------

129				04.1
-----	--	--	--	------

+50				04.1
-----	--	--	--	------

130				04.2
-----	--	--	--	------

+50				04.0
-----	--	--	--	------

131				03.9
-----	--	--	--	------

+25				03.8
-----	--	--	--	------

T.P.	5.02	908.59	5.68	903.57
------	------	--------	------	--------

Lt

Q

Et

96.8

12.1	12.1	10.1	7.0	56	55	52	55	59	8.0	12.3	12.4
60	34	28	20	16	11		12	18	24	38	60

96.6

12.2	12.1	11.1	7.1	58	56	53	55	59	8.1	12.0	12.6	12.6
60	49	32	20	16	12		12	17	24	34	39	60

12.2	12.1	7.1	56	55	52	56	6.1	8.0	12.5	12.5
60	32	19	15	11		12	17	22	36	60

12.2	12.2	11.9	6.6	57	54	52	56	6.0	8.0	12.2	12.5	12.5
60	46	31	18	16	11		13	18	23	35	46	60

12.2	12.1	11.5	11.0	6.6	57	55	51	55	58	8.0	12.0	12.4	12.3
60	49	35	29	20	16	10		12	17	23	35	48	60

11.8	11.5	11.4	7.0	57	55	53	55	6.0	8.1	11.5	12.0
60	42	32	20	15	10		13	18	24	35	60

11.2	11.0	10.8	7.0	58	56	54	56	6.0	8.2	11.0	11.0
60	41	30	21	15	10		12	18	24	35	60

10.0	8.0	7.3	6.0	57	55	58	6.2	8.0	9.0	10.5	10.5
60	38	30	21	12		12	19	26	29	38	60

Sta.	+	π	-	Elev.
		908.59		

131+40

03.8

+53.5 E. Co. Rd "C 2"

03.8

+66

03.8

+74

03.8

132

03.8

+50

03.7

133

04.1

+50

04.3

Lt.

E

Rt.

55 54 51 48 51 56 60 66 71
50 27 11 12 19 22 30 50

✓

53 53 52
100 50 16

48

51 55 62 66
12 15 50 100

✓

58 56 54 51 48 51 54 59 67
50 34 16 12 12 15 32 50

✓

84 82 62 55 51 48 52 56 70 79 85 85
60 36 24 15 11 12 17 23 28 39 60

✓

L.O. 82 78 84 58 52 48 53 56 73 76 72 79
39 32 21 14 10 14 17 21 28 31 50

L.O.

✓

64 62 83
50 32 26

84 54 52 49 51 53 68 73 65 66 64
21 14 10 14 17 22 28 39 50 60

✓

59 57 82 81 51 49 45 48 49 68 71 64 63 57 58
50 32 27 22 14 9 14 18 22 30 34 38 43 50

✓

64 60 78 79
50 32 27 15

80 50 47 43 46 49 66 76 74 64 49 49
22 15 11 13 18 23 27 31 36 45 50

✓

Sta	+	π	-	Elev.
		908.59		

134				04.3
-----	--	--	--	------

	+50			04.0
--	-----	--	--	------

135				04.0
-----	--	--	--	------

	+50			04.2
--	-----	--	--	------

136				04.1
-----	--	--	--	------

	+50			04.2
--	-----	--	--	------

137				04.3
-----	--	--	--	------

I.P.	7.21	911.53	4.27	904.32
------	------	--------	------	--------

	+50			04.4
--	-----	--	--	------

7-1-44
K.A.
L.C.
C.F.
P.B.

187

LT

2

St.

58 53 71 75 48 46 43 46 51 70 75 66 49 51
50 35 27 22 15 11 14 17 22 28 34 42 50

X

35 38 38 47 71 74 72 51 47 46 48 53 75 75 67 68
60 50 37 31 26 23 18 13 10 14 18 23 28 38 50

X

X

29 46 46 60 61 67 53 49 46 49 52 69 84 80 73 75
60 50 33 30 21 17 14 11 13 16 21 27 30 32 50

X

55 39 45 61 62 49 48 44 48 51 74 87 78 82
50 32 25 18 13 9 12 16 21 27 32 50

X

51 53 66 74 71 51 47 45
50 33 28 22 18 14 9

49 53 72 73 81
12 17 22 34 50

X

60 63 64 73 71 50 47 44 46 48 70 80
50 33 25 22 18 14 10 11 16 22 50

X

0.5

65 69 70 48 45 43 44 46 73 73 76
50 30 20 13 9 11 14 21 32 50

X

0.2

103 98 78 73 71 74 77 102 106 111
50 20 15 9 11 14 20 33 50

X

Sta	+	π	-	Elev
		911.53		
138				04.8
+50				05.0
139				05.5
+32				05.8
+36				05.8
+67				06.0
+96				06.3
B.M.		0.85	910.68	(910.68)

Lt.

E

Rt.

93 98 99 84 74 71 47 7.2 7.7 95 103 107 111 ✓
 50 36 22 18 14 9 11 16 20 26 32 50

88 93 90 84 72 68 65 69 72 93 105 104 106 ✓
 50 37 19 18 13 9 11 14 20 25 43 50

81 77 81 81 74 69 64 60 64 70 88 94 91 95 ✓
 50 27 24 20 17 15 10 11 16 21 25 36 50

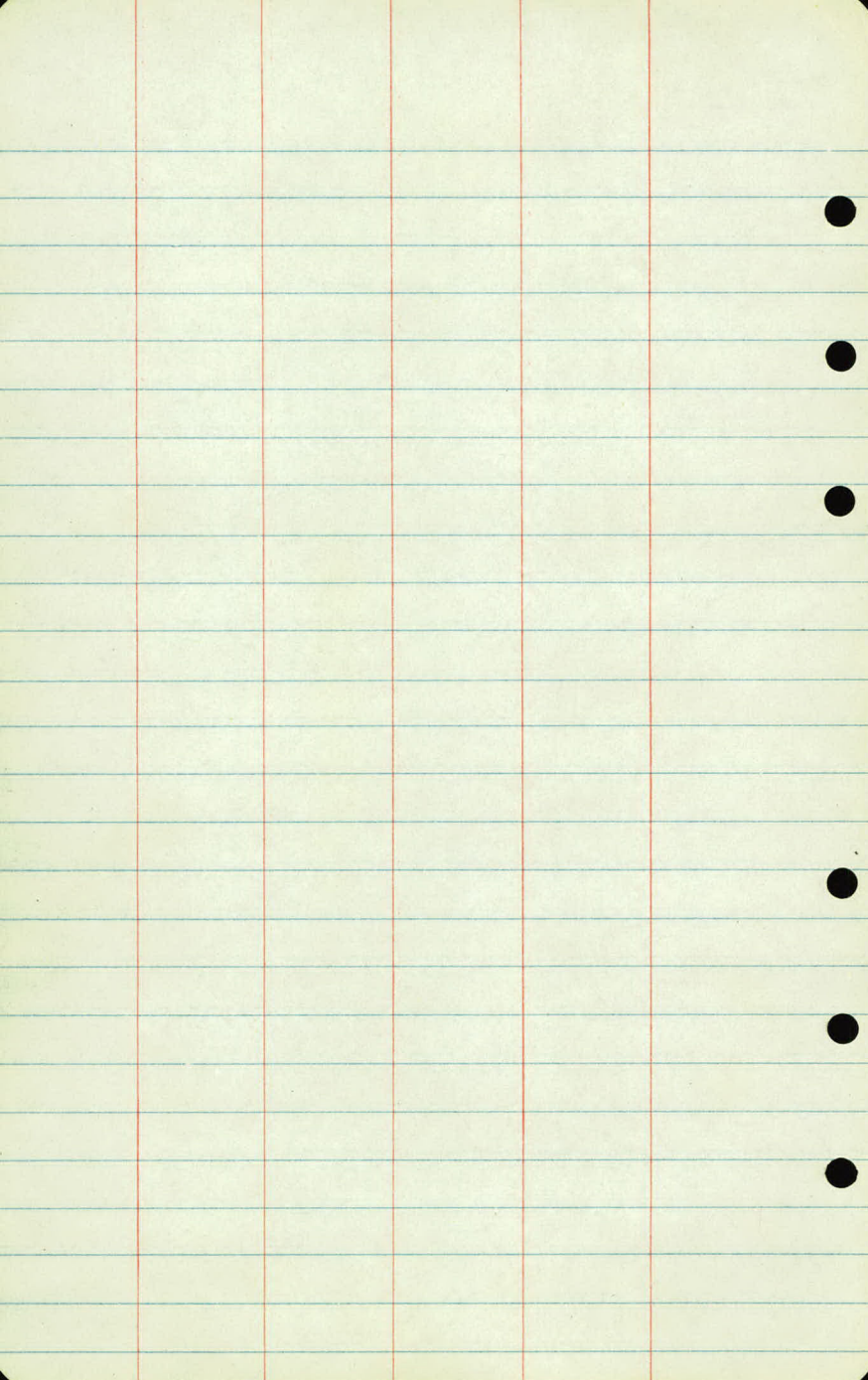
68 71 81 80 69 62 60 57 60 67 72 86 84 72 78 ✓
 50 28 24 19 17 14 9 11 16 18 21 27 34 50

56 57 81 80 69 62 60 57. Duplicate +32 ✓
 50 29 24 19 17 14 9

50 53 60 77 7.7 68 61 57 55 58 61 66 74 76 61 59 65 ✓
 50 31 28 25 20 18 16 9 11 15 17 19 22 26 35 50

42 44 51 69 68 53 54 52 55 57 60 65 65 46 47 ✓
 50 37 29 25 20 16 9 11 15 18 20 23 26 50

Top S.W. Cor. Lower Step W. side of Ho. Ft. 140 to 5



Lt

d

Et

Sta	+	π	-	Elev
B.M.	4.24	914.92		(910.68)
140				06.3
+50				06.8
141				07.1
+26				07.2
+59				07.2
142				07.3
+50				07.5
143				07.7

7-26-44

190

Lt.

E

Rt.

Top S.V. Cor Bottom Step W. Side of Ho. Bl 140+65

60	57	60	103	102	87	87	86	90	93	101	100	80	76	87
65	50	31	25	21	17	9		12	17	20	22	26	50	65

+

L.O.	44	46	96	100	81	81	89	84	90	90	76	65	58
65	50	31	23	19	15		12	18	23	24	30	50	65

+

46	45	47	90	95	95	75	78	78	79	79	94	93	73	64	58	43
65	50	29	22	21	20	16	9		10	16	21	23	28	33	50	65

+

26	36	48	86	92	78	77	79	80	96	94	75	65	64
65	50	30	22	19	15		10	16	20	22	28	50	65

+

28	40	54	88	89	79	79	77	78	82	99	91	87	90	90
65	50	28	22	19	14	9		7	15	21	24	30	50	65

+

32	44	58	87	86	80	77	76	78	85	101	103	98	95	94
65	50	32	23	18	16	9		10	18	23	28	33	50	65

+

46	57	70	85	94	75	74	77	77	108	108	85	81	80
65	50	33	30	21	14		10	14	23	28	31	50	65

+

48	47	71	88	94	81	76	72	76	87	113	110	86	86	84
65	50	32	29	21	17	14		13	17	22	26	34	50	65

+

Sta.	+	π ✓	-	Elev
		914.92		

143 + 44

08.1

+65

08.3

144

08.6

+50

08.8

+72

08.9

145

08.9 ✓

I.P.

3.32

913.29 ✓

4.95

909.97

+38

08.9

?
 +21
 171

09.0

Lt.

E

Bt.

X

S.S. 6.0 71 87 94 73 68 73 85 102 98 82 83 8.3
 50 33 30 22 16 13 18 22 24 30 50 65

X

6.4 7.0 84 80 93 93 74 68 66 6.8 6.9 82 78 78 8.0
 65 50 41 25 23 21 16 13 11 16 22 28 50 65

X

6.3 6.3 61 91 91 7.2 6.4 63 6.5 6.8 7.4 7.3 6.8 6.8 6.7
 65 50 26 23 20 17 13 11 16 22 24 27 50 65

X

4.0 3.9 4.3 88 88 7.1 6.5 61 6.8 6.9 6.5 5.6 6.1 6.0
 65 50 28 24 20 16 13 11 18 28 32 50 65

X

2.9 3.9 9.0 9.0 6.2 6.4 6.0 6.2 6.8 8.7 8.4 58 54 5.4
 65 28 23 19 16 13 11 16 19 22 28 50 65

X

2.5 3.6 9.0 9.0 6.4 6.0 6.2 6.7 8.8 9.0 5.3 4.7 5.1
 65 28 22 19 14 13 16 20 22 27 39 65

X

0.3 0.8 1.1 71 6.9 5.6 4.9 4.6 4.4 4.5 4.8 6.8 6.5 3.0 2.9
 65 50 30 21 19 16 14 10 11 16 19 22 29 50

X

10.4 0.7.
 65 31 7.2 71 5.1 4.6 4.3 4.5 4.8 6.2 5.6 4.2 3.4 4.5
 22 19 14 10 10 16 21 26 35 50 65

Sta + π ✓ - E/ek

9/13.29

146

09.1

+24

09.2

+42

09.2

+58

09.1

X

+70

09.0

147

08.9

+50

08.7

148

08.4

Lt

E

Rt

103 00 102 70 69 53 47 45 42 45 65 65 36 32
 65 30 31 22 19 16 15 11 14 18 22 33 65

✓

08 0.5 1.0 70 70 45 44 41 43 46 6.8 6.7 39 30
 650 50 30 22 19 14 11 10 15 20 23 33 65

✓

4.8 58 75 75 47 44 41 44 71 71 47 40 36 34
 65 25 22 20 14 10 14 19 23 29 34 50 65

✓

65 69 75 72 54 48 42 44 49 78 77 44 42 42
 50 23 22 19 16 13 12 15 20 23 31 50 65

✓

7.2 7.4 7.0 7.7 49
 65 34 25 22 13

43 45 48 8.2 8.0 8.8 8.5
 10 15 21 37 50 65

✓

9.2 9.0 9.0 8.8 54 48 44 46 5.4 8.5 9.0 9.2 9.1
 65 33 24 21 15 12 10 15 21 38 50 65

✓

103 102 97 65
 65 33 21 16

5.2
 11

46 4.9 53 9.5 10.3 10.4 10.4
 10 13 24 33 50 65

✓

107 106 9.8 7.2 56 4.9 5.4 6.4 10.0 10.5 10.6 10.9
 65 27 22 17 12 12 17 24 32 50 65

✓

Sta.	+	π ✓ 913.29	-	Elev
148+50				08.2
149				08.0
+50				07.8
150				07.7
+50				08.0
151				08.1
+29				08.1
+40				08.1 ✓
B.M.	9.68	915.18 ✓	7.80	905.49 (905.50)

Lt

L

Rt

109 108 99 69 57 51 55 65 106 109 109 ✓
 65 25 23 17 12 10 17 25 50 65

110 110 106 96 71 59 53 58 68 103 110 105 ✓
 65 37 28 22 17 12 10 17 26 50 65

109 101 81 64 55 59 68 99 110 102 ✓
 65 23 20 15 13 18 23 29 65

109 108 110 96 95 76 62 56 59 62 71 100 99 96 ✓
 65 33 31 28 22 18 13 10 15 17 25 50 65

105 110 95 72 60 53 57 62 78 91 97 98 97 ✓
 65 50 24 18 14 12 16 19 21 29 50 65

106 102 94 72 61 52 58 70 88 93 90 78 ✓
 65 30 22 18 15 13 18 21 30 50 65

105 102 96 61 56 52 55 62 85 85 79 71 ✓
 65 50 23 15 10 11 17 24 31 50 65

87 84 84 61 56 52 55 62 81 84 76 69 ✓
 65 34 22 15 10 11 16 20 29 50 65

Top SEG on Lower Step Lt. 151-190

Sta.	+	π /	-	Elev
		915.18		

151 + 95				08.1
----------	--	--	--	------

152				08.1
-----	--	--	--	------

+50				08.4
-----	--	--	--	------

153				08.8
-----	--	--	--	------

+40				09.3
-----	--	--	--	------

+76				09.9
-----	--	--	--	------

154				10.2
-----	--	--	--	------

+28				10.6
-----	--	--	--	------

X

Lt

2

Rt

9.5	9.0	7.7	7.1	7.0	7.7	9.8	9.7	8.6	6.0	X
65	19	14		11	17	22	29	50	65	

12.1	11.5	10.8	9.1	7.7	7.1	7.0	7.7	9.8	9.5	8.5	5.9	X
65	32	21	19	14		11	17	22	29	50	65	

12.2	11.5	11.1	8.3	7.2	6.8	6.6	7.3	9.2	9.2	7.8	4.7	X
65	32	22	17	12		11	17	23	29	50	65	

11.6	11.0	10.5	10.1	7.1	6.5	6.4	6.2	6.4	8.3	8.3	7.7	6.4	5.9	4.9	X
65	34	26	22	16	12		10	16	21	23	25	38	50	65	

11.1	9.6	9.9	14.0	7.3	6.2	5.9	5.7	4.1	8.1	8.4	7.6	5.2	4.2	2.3	X
65	27	26	23	18	13		10	16	21	23	26	34	50	65	

8.9	8.2	9.2	9.1	8.5	6.2	5.7	5.3	5.3	5.8	7.7	7.8	4.9	4.0	2.0	X
65	30	26	23	20	16	13		11	17	21	24	30	50	65	

7.0	6.3	5.5	8.8	9.0	6.0	5.2	5.0	5.0	5.3	6.3	8.1	8.0	4.5	3.9	2.5	X
65	42	31	26	23	17	12		11	16	18	20	24	30	50	65	

3.0	3.4	8.4	8.3	6.2	5.0	4.6	4.7	5.1	7.0	7.5	4.2	3.5	2.9		X
65	34	26	22	18	14		10	16	20	22	32	50	65		

Sta.	+	π ✓	-	E/OK
		915.18		

154	+51			10.9
-----	-----	--	--	------

155				11.5 ✓
T.P.	7.77	919.28 ✓	3.67	911.51

	+25			11.8
--	-----	--	--	------

	+63			12.2
--	-----	--	--	------

156				12.7
-----	--	--	--	------

	+50			13.4
--	-----	--	--	------

157				13.9
-----	--	--	--	------

	+40			14.2
--	-----	--	--	------

Lt

E

Et

27 26 77 77 48 47 43 44 47 72 69 41 34 30 ✓
 65 34 26 21 15 11 11 16 20 23 30 30 65

2.0 29 71 70 42 40
 65 33 25 21 15 11

37 37 37 59 5.9 42 39 37 35
 10 15 19 23 27 31 50 65

5.9 6.8 10.1 10.4 7.8 7.5 7.7 8.6 8.4 7.2 ✓
 65 32 26 19 15 10 18 24 65

2.
 7.1

5.1 6.1 7.1 9.2 9.0 10.1 7.1 7.3 8.1 9.7 10.3 8.7 7.7 L.O.
 65 41 29 25 19 16 12 17 20 24 28 35

5.0 6.7 8.3 9.1 6.8 6.6 6.7 6.8 7.5 9.6 9.3 8.0 7.4 L.O.
 65 30 27 21 16 9 13 17 20 24 28 33

6.1 6.5 8.2 8.2 6.1 5.9 6.2 6.7 8.7 8.6 6.6 6.4 6.1
 65 26 23 19 17 10 16 20 23 23 33 65

6.5 5.5 7.3 7.3 5.8 5.6 5.4 5.6 6.0 7.8 8.0 6.5 6.2 L.O.
 65 27 24 20 16 11 11 16 19 22 26 50

6.3 6.0 6.9 6.5 5.6 5.3 5.1 5.3 5.6 7.9 7.4 6.6 6.5 ✓
 65 27 23 20 17 11 11 15 20 22 26 65

Sta.	+	π ✓	-	Elev.
		919.28		
157 + 56				14.3
158				14.7
+25				15.0
B.M.	532	921.30 ✓	3.30	915.98 ✓ (915.98)
+69				15.3
159				15.6
+32				15.9
+69				16.1
160				16.4

Lt

4

Pt

53 54 67 67 63 53 50 53 55 76 75 65 63 63
 65 27 24 23 20 14 10 15 19 22 25 50 65

46 47 48 67 67 55 51 46 49 52 70 70 59 63
 65 50 28 24 21 17 15 11 16 20 22 26 50

40 40 43 63 63 51 45 43 47 51 68 68 54 55 51
 65 50 26 24 20 17 10 11 16 20 23 26 50 65
 Spk. 117 24" O.S.W. GOC "D" + Cleveland.

45 60 78 69 61 60 63 67 83 83 58 62 66
 65 26 22 13 10 14 17 20 22 28 50 65

70 60 75 75 63 59 57 60 77 77 49 51 53
 65 25 22 21 15 11 16 20 23 29 50 65

85 75 64 78 78 58 54 59 74 73 44 40
 65 50 25 23 20 15 16 20 22 29 65

40 62 85 89 81 73 72 59 55 52 55 73 73 45 41 41
 65 57 50 29 25 19 15 10 15 20 21 28 50 65

84 84 79 64 67 53 49 53 58 67 64 46 41 40
 65 50 36 23 22 10 11 16 21 23 27 50 65

Sta.	+	π	-	Elev.
		921.30		

160 + 24

16.7.

+ 38

16.9.

+ 43

16.9.

+ 604

Φ Co. Rd. D

16.9.

X

+ 76

16.8.

+ 83

16.8.

+ 84 Flow Line M.H. Rt.

161

16.6.

7-28-44
Strong Winds

197

Lt

2

Et

7.5 7.5 7.4 6.3 6.5 5.0 4.6 5.3 5.8 3.9 3.5 3.4
6.5 5.0 4.4 3.1 2.2 1.2 1.7 2.4 2.9 5.0 6.5

✓

7.2 6.5 6.5 5.9 5.2 4.4 4.6 5.0 5.5 3.6 3.7
6.5 5.0 3.4 2.4 1.9 1.2 2.9 3.7 4.4 6.5

✓

6.3 6.2 5.9 6.0 5.1 4.6 4.4 4.5 5.1 5.4 5.5
6.5 5.0 4.0 3.0 2.4 1.0 1.2 4.0 4.5 6.5

✓

5.9 5.5 5.4 5.2 4.7 4.4 4.5 4.8 5.1 5.3 5.7
2.00 1.50 1.00 5.0 2.5 2.5 5.0 1.00 1.50 2.00

✓

6.5 6.0 6.0 5.2 5.2 4.7 4.5 4.5 4.9 5.2 5.5
6.5 5.0 4.4 3.7 2.6 1.2 1.1 3.6 5.0 6.5

✓

4.7 4.9 4.7 5.4 9.8 4.5 5.0 5.8 6.0 6.1
6.5 5.0 2.6 2.1 1.0 2.5 3.6 5.0 6.5

✓

0.23
11.91
F.L.
16.3
5.00
Top

5.3 5.7 5.3 4.0 5.3 5.0 4.7 5.1 5.7 5.8 5.7
6.5 5.0 3.3 2.0 1.6 1.1 1.3 2.2 5.0 6.5

✓

Sta	+	π	-	Elev.
		921.30		

161 +23				16.4.
---------	--	--	--	-------

+42				16.4.
-----	--	--	--	-------

+68				16.1.
-----	--	--	--	-------

162				15.9.
-----	--	--	--	-------

+50				15.5.
-----	--	--	--	-------

163				15.1.
-----	--	--	--	-------

101	Profile of ditch rt. 0+00- End of tile			
-----	---	--	--	--

+30				14.8.
-----	--	--	--	-------

Lt

d

Pt

65	68	67	72	72	54	53	49	51	62	55	58	X
65	50	24	22	21	17	12		9	24	50	65	

69	70	70	68	77	77	57	53	49	52	60	65	50	56	56	X
65	50	32	25	22	21	17	11		9	15	24	29	50	65	

74	75	74	72	75	75	60	56	52	55	64	62	59	X
65	50	28	24	23	21	17	11		10	20	50	65	

79	85	77	84	84	62	59	54	58	72	70	66	X
65	47	25	23	19	17	11		10	22	50	65	

107	100	89	91	70	64	58	62	64	74	74	74	X
65	50	27	22	18	11		9	12	23	50	65	

12.6	11.6	10.6	10.1	7.0	6.7	6.2	6.5	7.3	7.7	7.1	6.8	6.5	X
65	50	30	24	16	11		9	19	24	30	50	65	

9.7	9.1	9.3	8.8	8.7
00	4	50	100	150

L.D.	123	109	103	72	69	65	67	7.8	7.3	65	64	X
	50	30	24	16	12		10	21	39	50	65	

Sta.	+	π	-	Elev
		921.30		
163 + 71				14.4
164				14.0
T.P.	2.45	916.43	7.32	913.98
+39				13.4
+68				13.0
165				12.5
+16				12.2
+62				11.4
166				10.9

Lt

E

Pt

11.8 11.3 10.6 9.9 7.9 7.5 6.9 7.2 8.1 7.6 6.4 5.8
6.5 5.0 3.3 3.0 1.8 1.1 9 21 29 50 65

✓

10.8 10.6 7.9 9.0 9.5 9.4 8.5 7.9 7.3 7.6 8.6 8.3 7.0 6.1 5.6
6.5 5.0 3.3 2.5 2.2 2.0 1.8 1.1 9 19 26 30 50 65

✓

4.4 4.3 3.4 5.2 5.2 4.3 3.4 3.0 3.2 4.2 1.8 2.0 1.4 0.8
6.5 5.0 2.7 2.3 2.0 1.7 1.1 9 21 30 42 44 65

✓

3.4 3.3 2.4 3.4 5.6 5.5 4.3 3.9 3.4 3.6 4.3 2.0 1.9 1.3 1.2
6.5 5.0 3.0 2.6 2.2 2.0 1.6 1.2 10 21 31 45 50 65

✓

3.0 2.4 2.0 5.8 5.8 4.7 4.2 3.9
6.7 4.4 2.8 2.3 2.1 1.8 1.1

4.1 4.8 4.7 1.6 1.8 1.7
9 21 25 29 50 65

✓

3.4 2.8 1.8 6.0 6.0 5.0 4.3 4.2 4.4 5.1 4.9 1.8 2.5 1.7
7.5 5.5 2.8 2.2 1.9 1.7 1.1 10 21 26 29 50 65

✓

3.8 3.1 2.6 6.8 6.8 5.9 5.3 5.0 5.2 5.4 6.2 6.1 1.3 1.5 1.7
7.5 4.6 2.9 2.2 2.0 1.7 1.1 9 13 20 24 30 50 65

✓

4.4 4.2 3.6 3.0 7.1 7.2 6.3 5.8 5.5 5.7 6.0 7.0 6.8 2.1 1.8 2.1
10.0 6.9 4.9 3.0 2.3 2.0 1.8 1.1 9 13 20 23 30 50 65

✓

Sta	+	π	-	Elev
		916.43		

166	+50			910.1
-----	-----	--	--	-------

	+97			09.0
--	-----	--	--	------

167				09.0
-----	--	--	--	------

K.R.		7.23		909.10
-----------------	--	-----------------	--	-------------------

	+41			08.3
--	-----	--	--	------

	+76			07.6
--	-----	--	--	------

168				07.1
-----	--	--	--	------

	+38			06.3
--	-----	--	--	------

	+66			05.7
--	-----	--	--	------

I.P.	2.00	907.20	11.23	905.20
------	------	--------	-------	--------

lt £ Rt

42 41 38 3.5 79 80 71 6.6 6.3 6.7 7.3 7.8 7.8 2.8 2.5 2.5
100 78 52 31 23 19 17 11 10 15 18 24 31 50 75

40 42 36 45 9.0 89 77 74 7.7 8.2 8.0 3.2 3.0 2.8
100 58 31 29 23 19 11 10 17 21 31 50 75

40 42 36 45 9.0 89 81 77 7.4 7.7 8.2 9.8 9.8 3.2 3.0 2.8
100 58 32 29 23 19 17 11 10 17 19 21 31 50 75
~~2-167~~

46 46 52 46 9.9 9.6 9.0 8.5 8.1 8.4 9.0 10.1 10.6 10.0 8.6 3.4 4.7
100 87 62 30 22 19 17 11 9 16 18 20 22 32 58 100

48 56 56 101 10.5 9.6 9.2 8.8 9.3 9.6 10.9 9.9 5.2 5.1 5.5
100 64 30 23 18 16 11 12 17 20 23 32 73 100

48 53 51 107 11.1 100 9.6 9.3 9.6 10.0 11.3 10.5 6.4 6.4 6.6 6.7
100 69 31 24 20 17 11 10 17 19 22 29 57 81 100

45 44 45 11.8 11.9 10.7 10.4 10.1 10.4 10.6 12.2 10.9 7.5 7.5 8.3 9.1
100 60 32 23 20 17 11 11 17 19 21 27 45 62 100

4.4 4.6 4.4 12.5 12.7 11.1 11.0 10.7 10.9 11.2 12.9 9.6 9.5 11.8
100 63 33 22 20 16 11 9 15 18 25 41 73

Sta.	+	π ✓ 907.20	-	Elev.
169				905.2
+24				04.7
+54				04.2
170				03.4
+30				03.0
+60				02.6
171				02.2
+35				02.2

Lt

E

Rt

4

42.5 40.2 0.9 4.2 3.8 2.7 2.3 2.0 2.3 2.8 4.4 3.8 3.5 4.6 5.1
 75 52 29 23 19 17 11 9 15 19 25 29 48 75

4

0.5 2.8 3.1 2.8 2.5 4.0 4.0 3.2 2.9 2.5 3.1 3.6 5.4 6.0 6.7 7.0
 75 46 32 28 23 22 19 16 11 11 17 23 38 59 75

4.2 4.9 5.4 5.6 5.0 4.1 3.5 3.0 3.3 3.7 4.8 7.3 7.9 8.3
 75 55 39 30 20 17 11 9 15 21 36 58 75

6.5 7.0 7.2 7.4 4.8 4.2 3.8 4.1 4.9 8.4 9.1 9.2
 75 53 33 22 17 11 9 16 21 29 75

7.7 8.3 9.2 9.2 8.0 5.1 4.7 4.2 4.8 5.4 6.3 9.1 10.7 10.7
 75 54 35 26 21 18 11 10 14 16 19 30 75

9.2 9.6 10.1 9.4 8.3 5.5 4.6 5.2 6.2 9.2 10.1 11.0 10.8 10.7
 75 55 33 25 20 15 9 15 19 23 30 50 100

10.0 10.3 9.4 6.0 5.4 5.0 5.5 6.0 9.7 11.1 11.9 11.7
 75 34 25 18 11 9 13 20 30 60 100

9.2 9.0 10.3 10.5 9.8 8.8 6.0 5.4 5.0 5.5 6.3 9.7 10.7 11.4 13.1 12.4
 75 63 55 33 27 24 19 12 10 16 21 25 30 50 100

Sta	+	π	-	Elev.
		907.20		
171+78	X Drain			902.1
172				02.2
+50				02.2
173				02.6
Elev. Water			96	
+50				03.0
174				03.5
+50				03.9
175				04.6
T.P.	978	914.44	2.59	904.66

Lt.

♀

Et.

96.0

95.2

89 87 104 102 112 90 59 54 51 57 59 67 98 120
 75 57 42 33 26 22 18 11 9 13 17 20 26

126 129
 50 100

FL. CULV

FL. CULV

89 90 98 100 96 88 61 54 50 57 58 63 100 120 135 129
 75 52 42 34 26 22 18 12 9 12 16 21 30 45 100

90 94 100 99 87 60 54 50 57 67 100 111
 75 60 33 26 22 18 13 11 15 22 30

132 126
 45 100

86 85 86 92 96 90 58 51 46 53 63 99 110 129 126
 75 58 41 37 30 24 18 14 10 18 22 30 46 100

83 89 81 90 92 78 51 47 42 50 53 98 115 128 120
 75 53 46 36 31 22 16 12 10 15 23 33 42 100

78 76 85 77 47 41 37 44 57 90 106 128 116
 75 47 27 22 17 11 9 16 23 30 46 100

75 79 81 71 41 38 38 42 44 94 102 118 109
 75 36 27 21 15 12 9 15 24 30 50 100

72 73 71 68 46 35 28 26 32 37 50 77 93 107 98
 75 60 38 23 19 15 11 10 15 18 21 27 42 75

Sta.	+	π ✓ 919.44	-	Elev
175	+50			905.2
176				05.7
	+50	+		06.7
177				07.7
	+40			08.8
	+70			09.6
B.M.		439	910.05	(910.05)
178				10.3
	+45			11.6

7-29-44

203

Lt

E

Rt

X

128	133	136	128	103	96	95	92	97	101	151	162	169	176
75	54	29	22	16	14	11		9	16	24	34	54	100

119	125	126	125	93	90		87	92	96	145	150	140
75	50	27	22	15	11			9	16	24	50	100

108	116	110	105	86	80	77	82	84	131	134	130	113
75	50	30	20	16	10		9	17	24	47	75	100

89	97	98	93	73	70	67	72	76	108	112	96	69
75	56	31	24	16	11		9	17	23	51	77	100

65	73	82	82	79	61	59	56	61	64	86	93	66	27
100	84	53	28	20	17	11		9	17	22	47	74	100

55	57	71	71	65	65	51	50	48	51	59	77	74	46	100
100	82	66	40	27	19	16	11		9	16	20	44	73	100

Spt in T.P. Lt 177+84

51	53	50	57	55	45	42	41	44	48	60	56	23	105
75	50	30	24	19	16	9		9	16	21	48	79	95

30	31	34	24	35	40	40	32	30	28	31	32	39	29	23	113
75	59	41	34	24	23	19	17	11		9	13	19	28	65	100

Sta.	+	π ✓	-	Elev
		914.44		

178 +70				912.3 ✓
---------	--	--	--	---------

T.P.	13.60	926.93	1.11	913.33
------	-------	--------	------	--------

179				13.3
-----	--	--	--	------

+30				14.2
-----	--	--	--	------

+70				15.4
-----	--	--	--	------

180				16.3
-----	--	--	--	------

+36				17.3
-----	--	--	--	------

+79				18.3
-----	--	--	--	------

181				18.9
-----	--	--	--	------

Lt.

E

Rt.

X

18	18	0.9	12	35	34	24	23	21	2.4	2.4	2.9	08	00	11.4
75	52	33	27	23	19	15	10		9	13	17	51	73	100

19.1	12.8	12.1	11.4	15.2	15.0	13.9	13.9	13.6	14.0	13.8	12.2	9.3	8.8
75	57	34	28	23	20	17	11		10	16	23	48	70

12.0	11.6	10.5	11.1	14.2	14.1	13.2	13.1	12.7	13.1	13.3	13.7	12.0	8.3	6.4	6.0	5.3	5.0
75	48	33	27	24	20	17	10		9	16	20	27	32	38	58	81	100

10.3	10.0	9.7	9.5	12.7	12.6	12.0	11.9		11.5	11.8	11.9	12.2	10.6	5.7	3.7	3.2	2.5
75	60	41	29	25	19	17	10		9	17	18	27	34	41	70	100	

9.6	9.6	10.7	10.9	10.6	11.0	11.0	11.4	10.3	8.0	4.0	2.4	1.9	1.4
75	40	24	9		9	17	18	25	30	35	40	60	100

6.4	4.6	7.3	7.6	10.7	11.0	10.1	10.1	9.6	10.0	9.9	8.7	2.6	1.0	0.5	0.0
100	78	53	32	25	21	18	10		9	19	26	35	41	70	100

5.1	4.6	4.5	4.6	8.7	9.6	9.0	8.9	8.6	8.9	9.1	8.1	7.1	2.5	0.7	0.3	+0.5
100	75	59	33	25	21	17	9		10	19	24	28	34	38	70	100

4.6	4.4	3.7	3.8	8.5	9.0	8.5	8.3	8.0	8.4	8.5	8.1	8.1	2.2	1.2	0.5	+0.2
100	80	57	34	24	20	17	10		10	19	23	26	34	36	70	100

Sta	+	π	-	Elev
		926.93		

181	+50			920.3
-----	-----	--	--	-------

182				21.8
-----	--	--	--	------

T.P.	10.71	933.34	4.30	922.63
------	-------	--------	------	--------

	+50			23.3
--	-----	--	--	------

183				24.5
-----	--	--	--	------

	+50			25.7
--	-----	--	--	------

184				26.7
-----	--	--	--	------

	+18			26.9
--	-----	--	--	------

	+48			27.3
--	-----	--	--	------

Lt

E

Pt

35 35 29 26 82 84 69 68 66 68 68 73 68 54 14 10 04 ✓
 100 75 53 30 24 21 16 10 9 16 19 24 28 33 50 100

2.3 2.3 2.0 2.1 6.8 6.9 6.0 5.8 5.4 5.1 5.4 5.4 6.9 5.3 0.7 0.7 0.0 ✓
 100 73 50 30 24 20 18 16 10 9 17 19 25 32 50 100

77 75 72 67 11.3 12.0 106 103 100 102 103 116 115 64 65 57 ✓
 100 78 50 31 25 21 17 10 9 16 19 23 31 50 100

71 6.9 6.5 5.8 10.9 10.8 9.3 9.1 8.8 9.0 9.0 10.7 10.0 6.3 6.6 6.1 4.8 ✓
 100 82 66 30 22 20 16 10 9 16 20 24 31 38 60 100

55 5.5 5.3 5.2 9.7 9.8 8.1 7.8 7.6 7.9 8.1 9.7 9.6 5.9 4.1 5.7 5.0 ✓
 100 74 48 30 23 21 17 10 9 14 20 24 29 35 68 100

50 4.7 4.5 4.5 8.8 8.8 7.5 7.0 6.6 7.0 7.2 8.7 8.7 5.4 5.5 4.5 3.7 ✓
 100 75 48 30 23 20 18 14 11 16 19 23 29 39 72 100

4.7 4.8 4.8 4.5 4.5 8.5 8.5 7.1 6.8 6.4 6.8 7.2 8.4 8.5 5.3 5.6 4.6 3.8 ✓
 100 81 65 47 28 23 20 16 11 13 17 19 23 29 37 67 100

50 4.8 4.3 4.7 7.7 8.1 7.1 6.6 6.0 6.5 6.6 8.4 8.2 5.4 5.4 4.0 ✓
 100 79 55 28 22 20 18 14 11 17 20 23 27 50 100

Sta.	+	π ✓	-	Elev.
		933.34		
184 + 66				927.5
185				27.9
+50				28.1
186				28.2
+28				28.1
+53				28.1
+63				28.1
+75.31				28.0
B.M.	3.80	931.89 ✓	5.30	928.04 (928.09)

7-29-44

206

Lt

E

Et

50 47 47 79 79 67 62 58 62 63 82 80 59 55 50 39
75 50 27 23 21 18 10 10 16 21 23 26 29 62 100

51 50 50 78 77 60 57 54 58 62 76 76 45 42 43
75 53 27 22 20 16 10 11 17 21 23 28 50 75

54 42 42 73 71 60 57 55 52 56 59 60 69 33 30 27
60 44 28 23 20 18 15 10 10 15 20 23 29 55 75

54 50 38 31 67 67 58 54 51 55 58 71 67 40 35 30
75 65 42 29 23 20 18 10 10 17 21 25 29 50 75

53 43 36 68 68 58 54 52 54 57 69 68 37 36 27
75 50 29 23 20 18 10 11 16 20 25 28 52 75

30 33 33 36 46 70 67 57 54 52 55 57 60 63 55 34 27
75 51 38 32 27 24 19 16 10 11 15 17 24 27 34 75

40 37 41 41 66 69 57 54 54 52 54 56 54 50
75 60 45 28 22 20 16 15 10 10 27 50 75

37 37 39 36 68 69 58 56 55 53 54 52 44
75 52 32 28 23 20 16 14 10 10 50 100
Top Mont & 186 + 75.31 (High Point)

Sta	+	π	-	Elev
		931.89		

187				927.9
-----	--	--	--	-------

+50				27.4
-----	--	--	--	------

188				27.1
-----	--	--	--	------

+50				26.7
-----	--	--	--	------

189				26.3
-----	--	--	--	------

+50		5.8		26.1
-----	--	-----	--	------

190		6.0		25.9
-----	--	-----	--	------

+50		6.3		25.6
-----	--	-----	--	------

Lt.

E

et

29 26 56 58 46 43 40 42 43 39 37
50 31 26 23 19 10 9 18 36 50

✓

26 27 61 63 51 49 45 47 50 62 60 42 51
50 30 24 22 17 11 10 16 20 25 28 50

✓

41 43 39 70 69 55 52 48 48 50 67 68 59 59
50 33 28 23 20 16 10 10 15 20 25 27 50

✓

59 57 75 74 57 55 52 53 56 70 70 62 65
50 26 23 19 16 10 10 16 19 24 26 50

✓

64 69 90 88 62 59 56 57 63 80 82 82
50 27 24 19 15 11 10 17 21 30 50

✓

Sta.	+	π	-	Elev.
		931.89		

192			6.7	925.2
-----	--	--	-----	-------

+50			6.8	25.1
-----	--	--	-----	------

193			7.0	24.9
-----	--	--	-----	------

+50			7.4	24.5
-----	--	--	-----	------

194			7.6	24.3
-----	--	--	-----	------

7-31-44

208

Lt.

4

St

Sta.	$\pm$	π	-	Elev.
------	-------	-------	---	-------

7

才

1

Elev.

209
3/22/46

Profile Levels

CLEVELAND AVE.

sta. 111+00 to sta 119+00
and

sta 131+00 to sta 143+00

7 Pages

Sta.	+	π ✓	-	Elev.
B.M.	5.91	911.02		905.11

111			2.2	08.8
-----	--	--	-----	------

+50			2.8	08.2
-----	--	--	-----	------

112			3.6	07.4
-----	--	--	-----	------

+50			3.9	07.1
-----	--	--	-----	------

113			4.1	06.9
-----	--	--	-----	------

+50			4.5	06.5
-----	--	--	-----	------

114			4.7	06.3
-----	--	--	-----	------

+50			4.8	06.2
-----	--	--	-----	------

3-22-46
K.A.
A.M.
C.F.

210

LT

E

BL

U.S.G.S. B.M. G 14 31' LT 18+60

Sta	+	π	-	Elev
		911.02		

115			47	06.3
-----	--	--	----	------

+50			48	06.2
-----	--	--	----	------

116			50	06.0
-----	--	--	----	------

+50			5.0	06.0
-----	--	--	-----	------

117			4.9	06.1
-----	--	--	-----	------

+50			4.8	06.2
-----	--	--	-----	------

118			4.6	06.4
-----	--	--	-----	------

+50			4.4	06.6
-----	--	--	-----	------

119			4.3	06.7
-----	--	--	-----	------

Lt.

E

Pt.

Sta	+	π ✓	-	Elev
B.M.	0.07	910.75		910.68

131			6.6	04.2
-----	--	--	-----	------

+20 Beg lift			6.7	04.1
--------------	--	--	-----	------

+60			6.5	04.3
-----	--	--	-----	------

132			6.2	04.6
-----	--	--	-----	------

+50			5.6	05.2
-----	--	--	-----	------

133			5.1	05.7
-----	--	--	-----	------

+50			5.0	05.8
-----	--	--	-----	------

134			4.8	06.0
-----	--	--	-----	------

Lt.

Q

Pt.

Top S.W. Cor. Lower step Front of Ho. rt. sta. 140 + 75

Sta	+	π	-	Elev.
		910.75		

134	+50		4.7	06.1
-----	-----	--	-----	------

135			4.8	06.0
-----	--	--	-----	------

	+50		4.7	06.1
--	-----	--	-----	------

136			4.7	06.1
-----	--	--	-----	------

	+50		4.7	06.1
--	-----	--	-----	------

137			4.8	06.0
-----	--	--	-----	------

	+50		5.0	05.8
--	-----	--	-----	------

138			5.1	05.7
-----	--	--	-----	------

Lt

C

Et

Sta	+	π	-	Elev
		910.75		
138	+50		5.2	05.6
139			5.2	05.6
	+50		4.8	06.0
140			4.2	06.6
	+50		3.6	07.2
141			3.0	07.8
	+50		3.4	07.4
142			3.3	07.5

Lt

E

Et

Sta	+	π	-	Elev.
		910.75		
142 +50			3.1	02.7
+90			2.9	07.9
143			2.9	07.9

CLEVELAND AVE

Profile Levels

Stowe Ave to N.E. Cor. Sec. 32

Sta	+	π	-	Elev
B.M.	2.81	930.90		928.09

$186 + 75.84 =$
 $186 + 72.61$ } Equa.

			2.8	28.1
--	--	--	-----	------

187			3.0	27.9
-----	--	--	-----	------

+50			3.5	27.4
-----	--	--	-----	------

188			3.8	27.1
-----	--	--	-----	------

+50			4.2	26.7
-----	--	--	-----	------

189			4.6	26.3
-----	--	--	-----	------

+50			4.8	26.1
-----	--	--	-----	------

190			5.1	25.8
-----	--	--	-----	------

+50			5.3	25.6
-----	--	--	-----	------

191			5.7	25.2
-----	--	--	-----	------

+60			5.8	25.1
-----	--	--	-----	------

192			6.0	24.9
-----	--	--	-----	------

3-26-4
K.A.
A.M.
G.F.

216

Lt.

E

Pl.

Top of Mont at Stone Ave.

Sta	+	π 930.90	-	E/cv.	
192	+50		6.5	24.4	✓
193			6.8	24.1	✓
	+50		7.0	23.9	✓
T.P.					
194			7.1	23.8	✓
T.P.	4.13	927.89	7.14	923.76	
	+50		4.4	23.5	✓
195			4.8	23.1	✓
	+50		5.0	22.9	✓
196			5.1	22.8	✓
	+50		5.2	22.7	✓
197			5.2	22.7	✓
B.M.			4.40	923.49	923.50
	+50		4.8	23.1	✓
198			4.7	23.2	✓
B.M.					923.50

Lt.

2

Pt.



Front)
Top S.E. Cor. Lower Step of Hto. 47 197+47

Sta	+	π	-	Elev.	
		927.89			
198	+50		4.7	23.2	✓
199			4.7	23.2	✓
	+50		4.5	23.4	✓
200			4.2	23.7	✓
T.P.	6.15	929.83	4.21	923.68	
	+50		5.9	23.9	✓
201			5.6	24.2	✓
	+50		5.5	24.3	✓
202			5.5	24.3	✓
	+50		5.4	24.4	✓
203			5.1	24.7	✓
	+50		4.9	24.9	✓
204			4.8	25.0	

LH

E

PL

18 6172

11 75

198 41

Sta	+	π	-	Elev.
		929.83		
204	+50		4.8	25.0
205			4.7	25.1
	+50		4.4	25.4
206			4.1	25.7
T.P.	9.23	934.96	4.10	925.73
	+50		8.6	26.4
207			7.9	27.1
	+50		7.3	27.7
208			6.8	28.2
	+50		6.2	28.8
209			6.4	28.6
	+50		5.0	30.0
210			4.4	30.6

Lt.

E

Et.

sta	+	π	-	E/er
		934.96		
210	+50		3.6	31.4
211			2.4	32.6
	+50		0.6	34.4
T.P.	11.26	945.42	0.80	934.16
212			8.8	36.6
	+50		6.3	39.1
	+84		4.5	40.9
	+90		4.5	40.9
213			4.0	41.4
	+14.75		3.3	42.1
B.M.			12.89	932.53
				(932.49)

Lt.

E

Et.

U.S.G.S. B.M. 6-15 N.W. Cor. Cleveland & Co. Rd. E^v

