

Dr. 6-Bk. 121

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

PLAN

Survey

Cleveland Ave.

From Larpenteur ^{Ave.} to 1 1/2 miles No.

Road Acc't. No.

Date Filed 1937

File

PLAN

Cleveland Ave.

Proposed paving from
Carpenter Ave. to 1 to 1 1/4 miles
North.

Point Angle.

Sta.

Lt. Rt.

52+59.08
Mon.

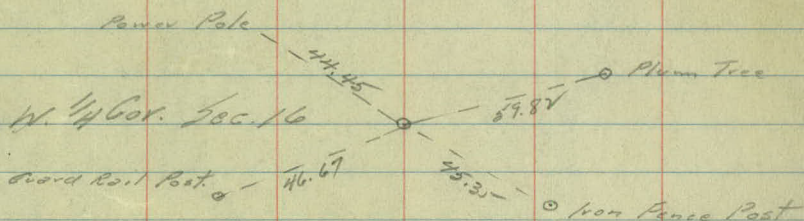
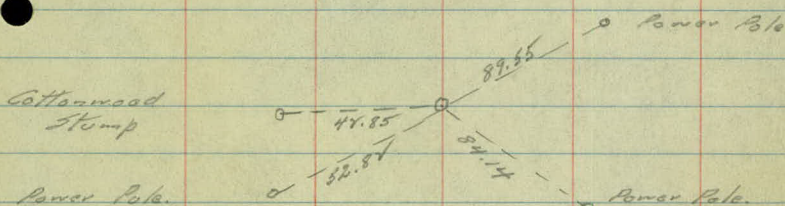
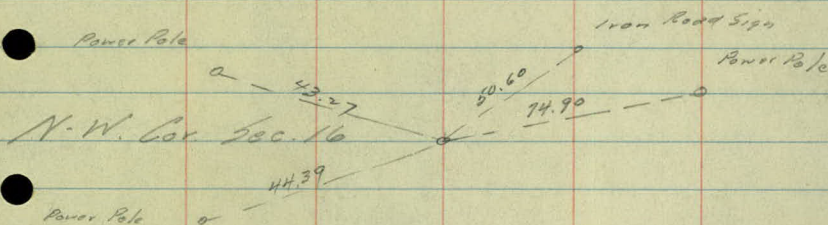
0° 10'

34+00 P.O.T.

26+33.9 Pl. 0° 7'
Mon.

0+00 = Stone Mon. @ Cleveland
& Carpenter Aves.

S.N.



S.W. Cor. Sec 16 T29N-R23W.

5/2

Point

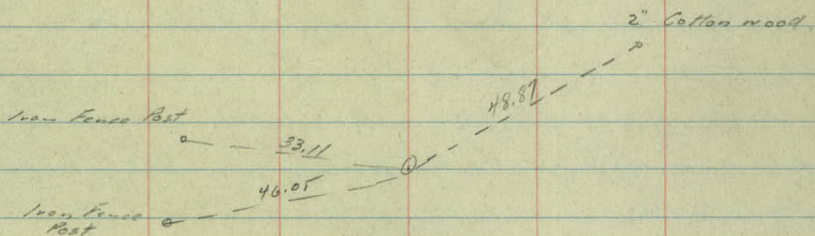
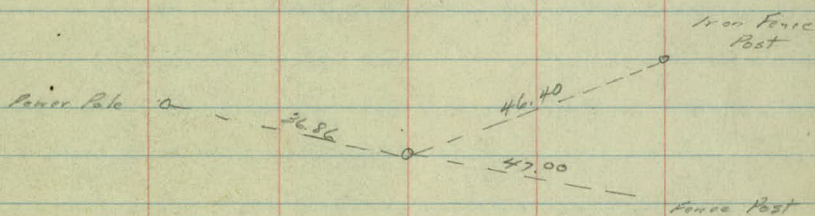
Angle

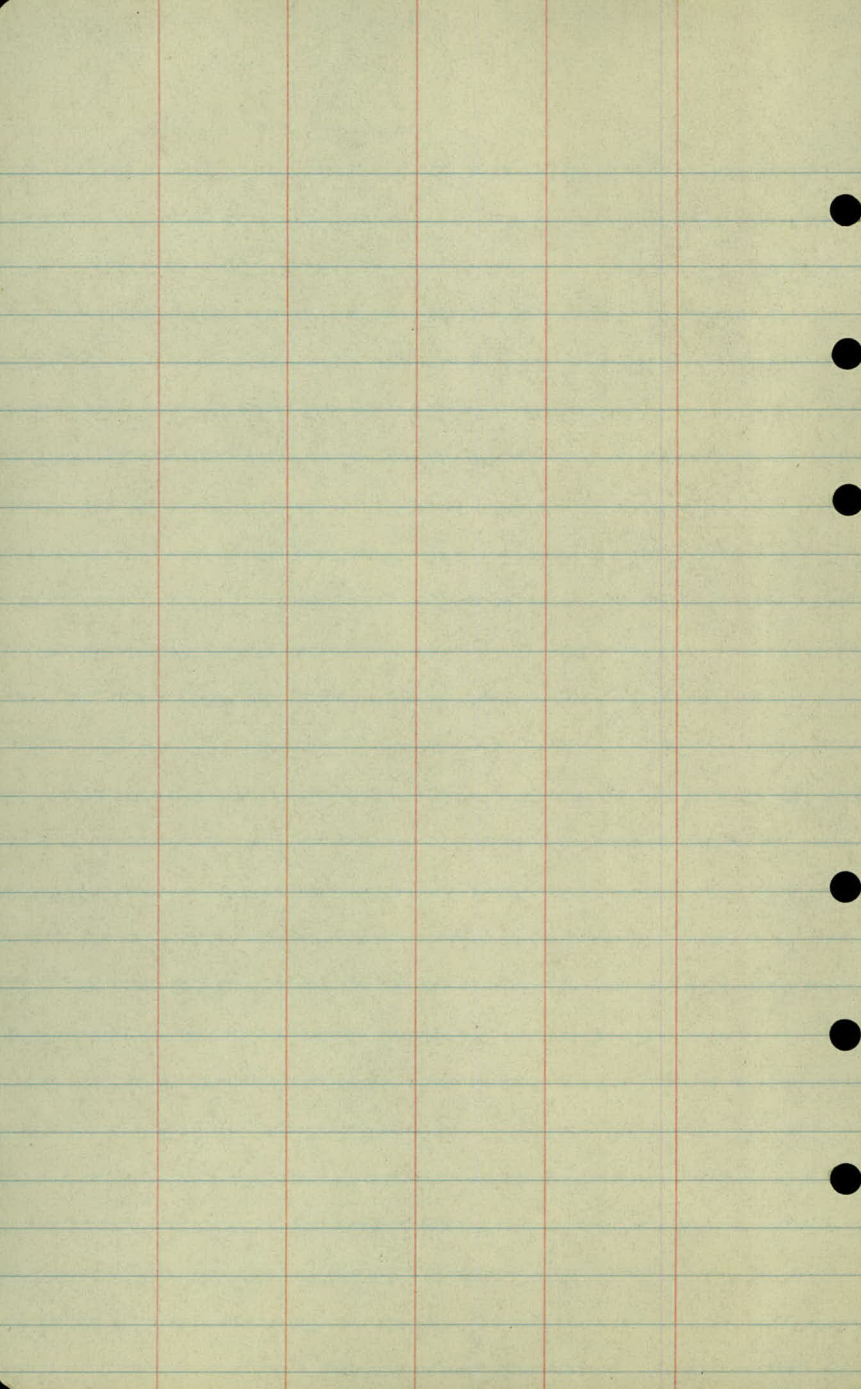
Lt.

Rt.

78+99²⁵ Stone Mont.

67+00





1
Topography

Cleveland Ave.

From Carpenter to $1\frac{1}{2}$ Mi. No.

7/37

B.

2

1

0400 - Stone Mon.

North.



Orchard

31' 9' 12' 33'

Cultivated

Pro.

Black Top

9' 13'

T.P. +97

28'

Orchard

28'

X +97 P.P.

X Iron Posts @ 16'
48" W.W.
15' 12" W.

1430

Wood Post @ 10'
48" W.W.
3 Steps BW

10' 13'

Cultivated

Yard

Black Top

T.P. +64

27'

+40 Stop Sign

27'

+347

31'

33'

+44 P.P.

+347

T.P. +23

27'

36'

+23 T.P.

Laurent Ave.



20' Concrete

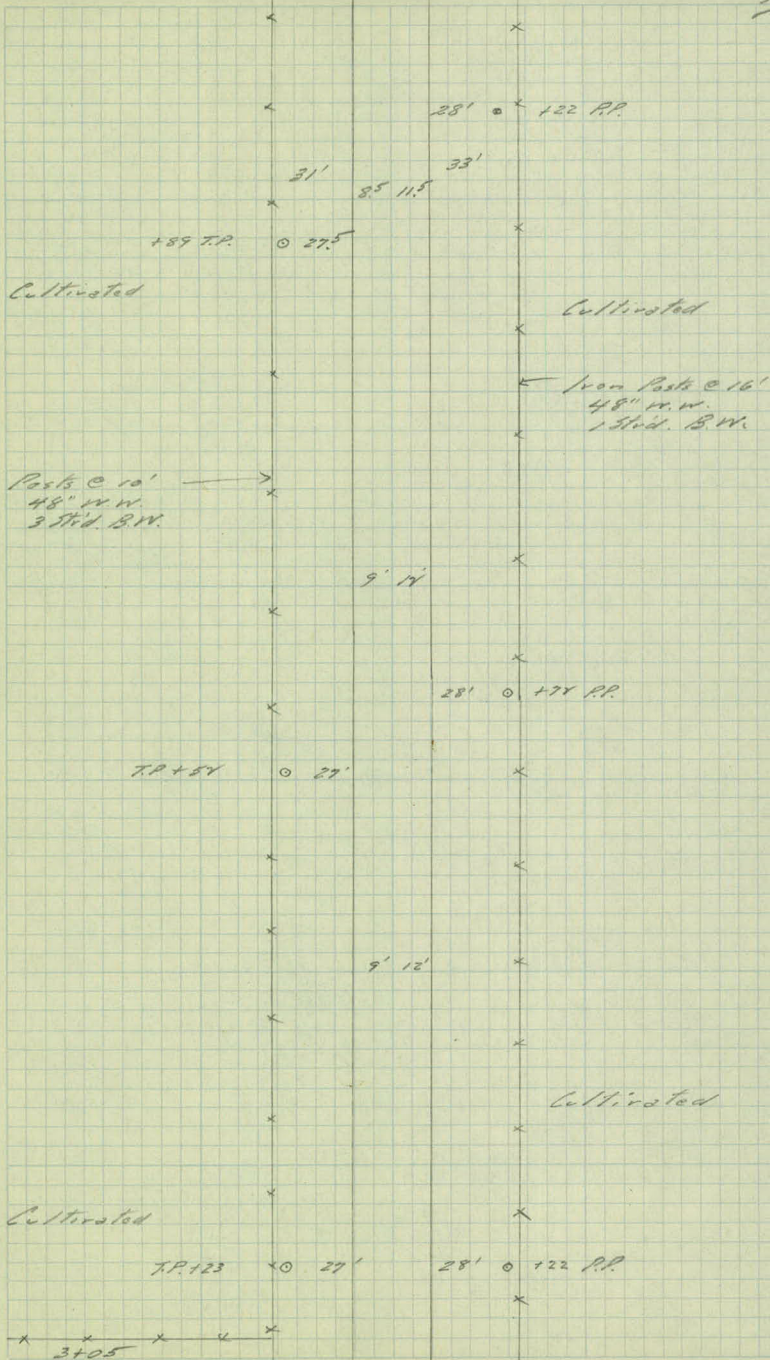
Conc.
Paving

6

5

4

3

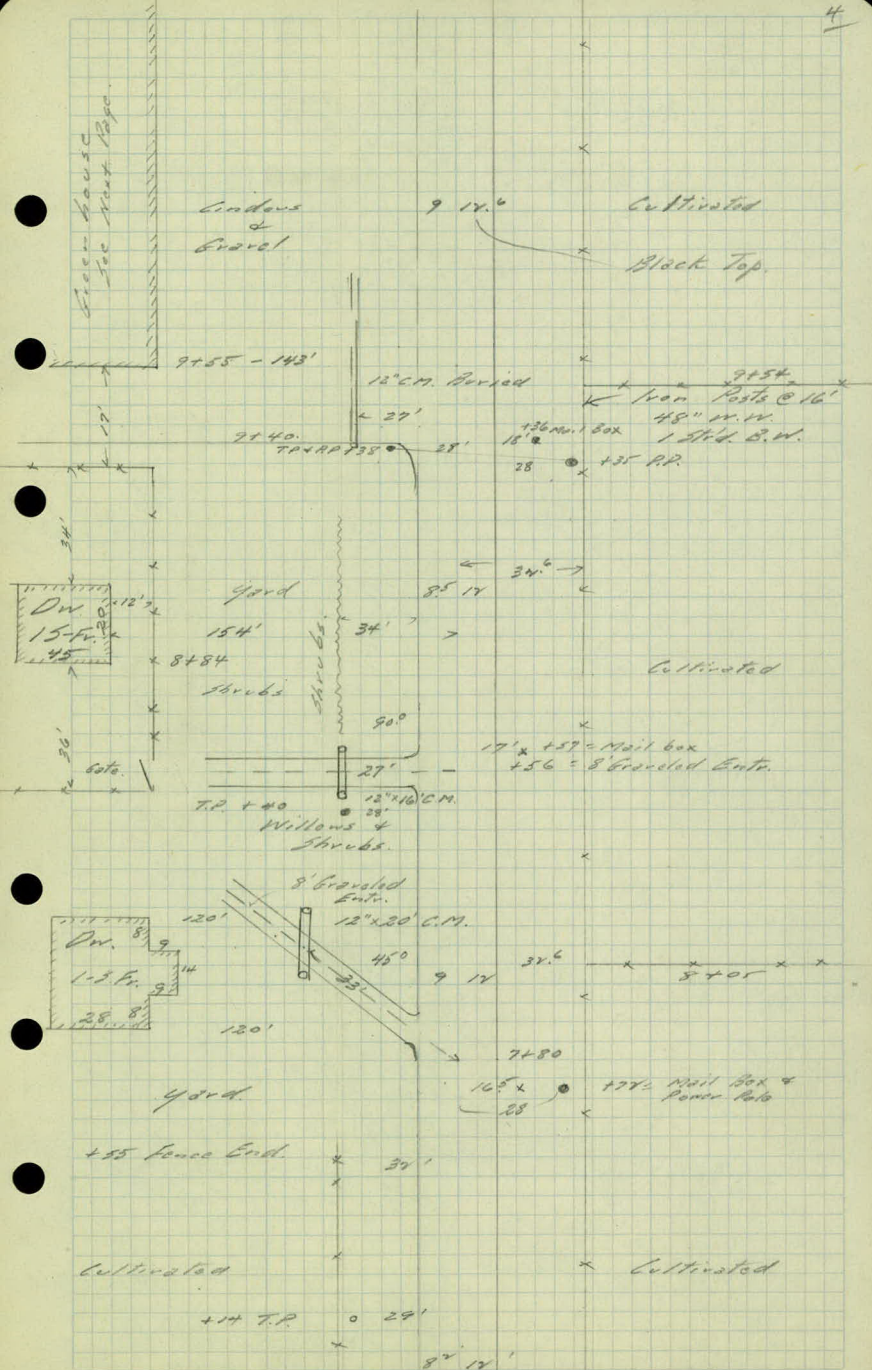


10

9

8

7

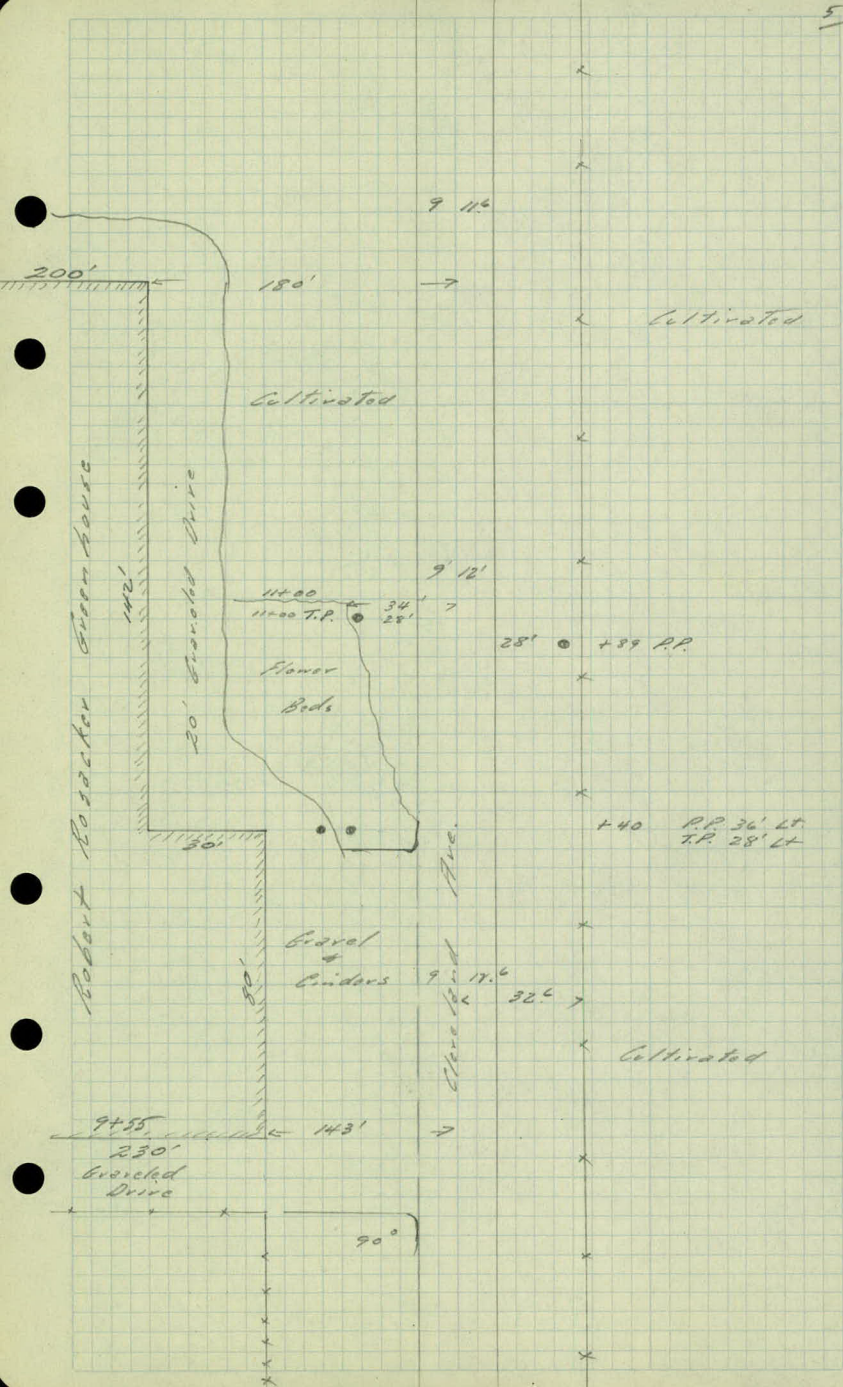


12

11

10

9



5

14

13

12

28' • +56 = R.P.

6

University
Golf
Course

T.P. +08 • 28'

10 17

Black Top

Cultivated

Braced

9 14

28' •

+01 R.P.

14+00.2

15+84.2

90°

University T.P. +69 • 28'
Golf
Course

Cultivated

1100 Posts @ 16'
48" W.W.
151.4 B.W.

13+17

Clavichord

10 11?

Cultivated

28' • R.P. +45

T.P. +37 • 28'

34.5

20

19

18

17

16

10 11
L 33'

Cultivated.

University
Golf
Course

+ 502

90°

T.P. + 14 • 28'

105 105

Cultivated

10 10

T.P. + 83 • 28'

Iron Posts @ 16'
48" woven wire
15 ft. B.W.

17 + 15 Begin Row
Oaks.

30'

10 11 28' • + 05 P.P.

4' x 5' Conc. Manhole
+ 70

38'

Cultivated

T.P. + 45 • 28'

L 37.5

10 12

23

22

21

20



University
Golf
Course

10' 10' 28' • 23100 P.P.

Cultivated

Paper Box +50

x 15' 16' x +48 Mail Box
26' x +47 Iron Sign Cross Road

Oak Row

30'

Black Top

10.5 10.5
33'

University
Golf
Course

Prevue

• +53 P.P.

Iron Posts @ 16'
48" W.W.
15' H. B.W.

9.5 11

Cultivated

T.P. +46

20'

Cleveland

28' • +08 P.P.

26

25

24

23

R.P. & T.P. 26+00

• 25'

28'

• 26+00 P.P.

• 33'

Cultivated

Iron Posts @ 16'
48° W. N.
15' to S. W.

University
Golf
Course

10 11

+64 = 24" x 48' C.M.

• 21' •

+55 T.P. • 25

• +54 P.P.

24+00 End Oak Row

11 11

Cultivated

T.P. +53

• 25

T.P. +13

• 25

• 33' •

23+00 P.P.

29

28

27

26

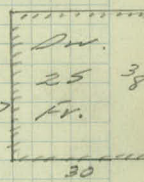
Hay Land

North.



Avenue

40'

 yard
 Shrubs
 +
 Trees.
 72'
 }
 +19


Black Top — 9 11.5

28 • +87 T.P.

Hay Land

Clover Land

9 12 Collimated

+87 = 24" x 72" C.M.



• +78 T.P.

+68 P.P. • 28

Iron Rd. Sgn. "Stop" X 28

A. 2

18' Black Top.

☒ Stone Mon.
 See Alignment Notes

20115 Gd. Rail.

44'

10 11

33' 7"

26 + 03

+80 Gd. Rail - wood

17'

X X Rd. Sgn. "Stop."



32 ✓

31

30

29

424
Land

9 11

+8V P.P. • 28 31 • +8V T.P.

Cultivated

9 12

424
Land

32' • +49 T.P.

+12 P.P. • 28

9 12

+87 X-Road Sgn. X 22'

+94 Mail Box
72" W. Wire

15 X

X

X

X

X

X

X

X

30'
Frame
5' Box
29+42

33' X 72" W. W.
8" X 20 C.M.
12' Entr.
Gravel

29+12

26'

90°

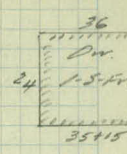
35

34

33

32

yard
150'



+24 T.P. & P.P.

Hay Land

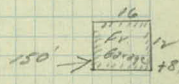
34+94 - 10' Entr.
Cind. & Gravel
13" x 18' C.M.

Paper Box
170

17 x 105 Mail Box

95 11
15 - 23

30' +84 T.P. & P.P.



+64 Mail Box

16 x

yard

81

+46 Paper Box

x 15

12" x 20' C.M.

34+43

13' Cind. & Gravel
Entr.

15" x 20' C.M.

34+15

25

Field Entr.

16' Dirt Road

90° 9 11 - Black Top

+56 T.P. & P.P.

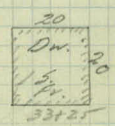
27

Drive

+20 T.P. & P.P.

30

175'



9 11

yard

Hay Land

Cleveland

+50 Paper Box

17

17

+48 Mail Box

15" x 20' C.M.

25

32+35

90°

10' Entr. Drive

Cinders & Gravel

39

38

37

36

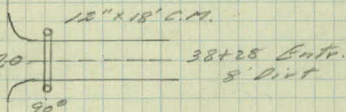
35+50

9 11

• +83 T.P.

+35 T.P. & P.P.
+30 Mail Box

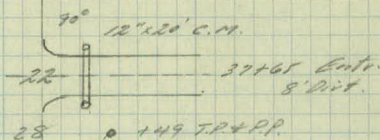
• 28
x 16



Hay Land

9 11

Cultivated



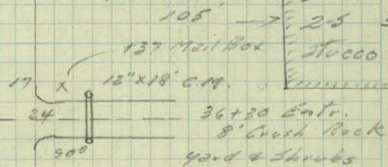
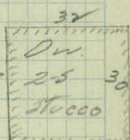
Cultivated

9 11 Black Top.

+29 T.P. & P.P.
+74 Paper Box

• 28
x 16

Shrubbery
&
Trees



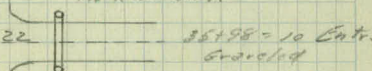
Hay Land

9 11

12' x 20' C.M.

+88 Mail Box
+88 Paper Box

x 15
x 15



yard
&
Shrubbery
150'



43

42

41

40

39

Hay Land

+89 P.P. • 28 10 10

26 • +42 T.P.

10 10 Cultivated

+46 P.P.

• 28

+09 Paper Box
+08 Mail Box

x 15
x 15 9 11

90°

15" x 30' G.M.

25

41+00 Entry
10' Graveled

39

+90 T.P. & P.P.

Hay Land

Shrubs
+ Trees
94'

42
Dw.
1-5. 30
+ Stucco
40+25

+90 T.P. & P.P.

• 28

28 • +06 T.P.
9 11 Black Top

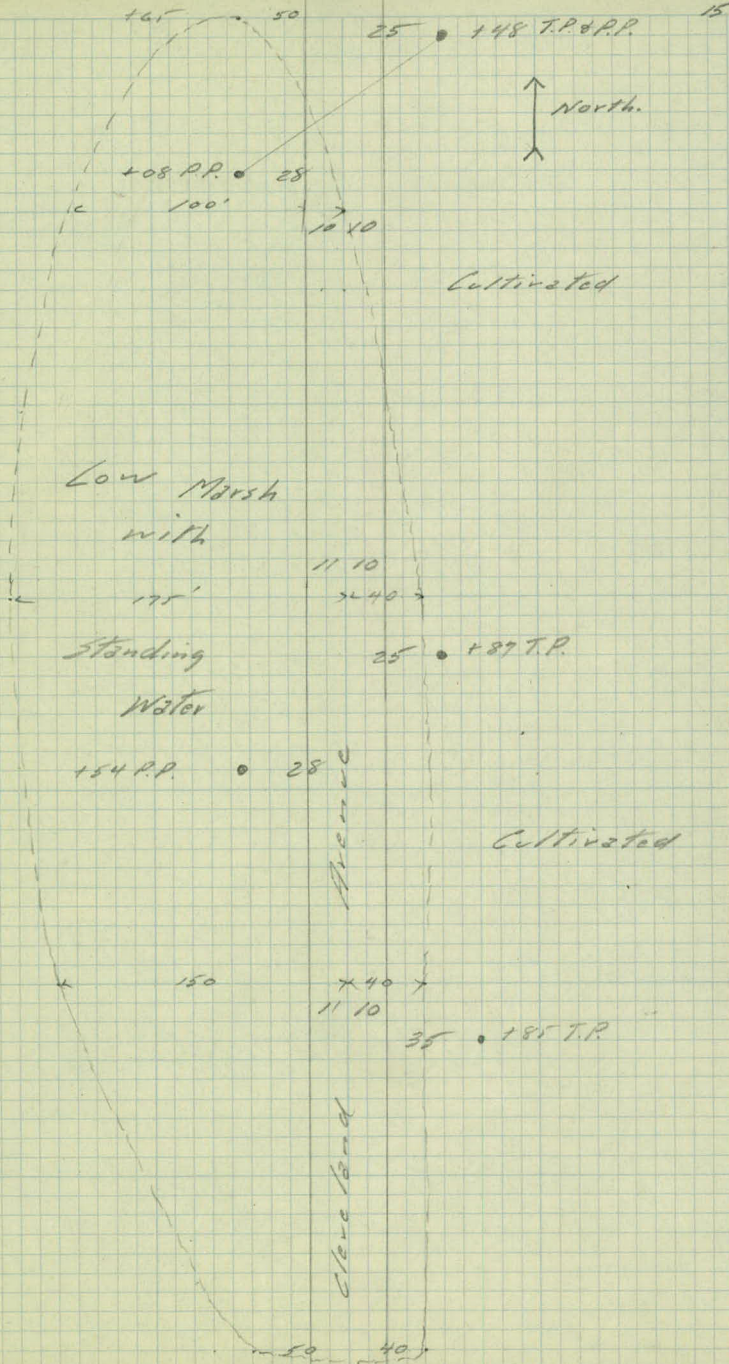
46

45

44

43

Midland Hills Golf Course.



50

49

48

47

+17 P.P.

28

X
X Road Sign Pasture

10 11

X
with
3 Strd. B.W.

X
Scattered
Trees

X

Midland Hills
Golf Course

10 10 30 X X X X X X

Orchard

+65 T.P. & P.P. 28

25 • +25 T.P. Entr. 12 Graded

+36 Paper Box
+33 Mail Box

X 15
X 15

47+36

24

900

Shade

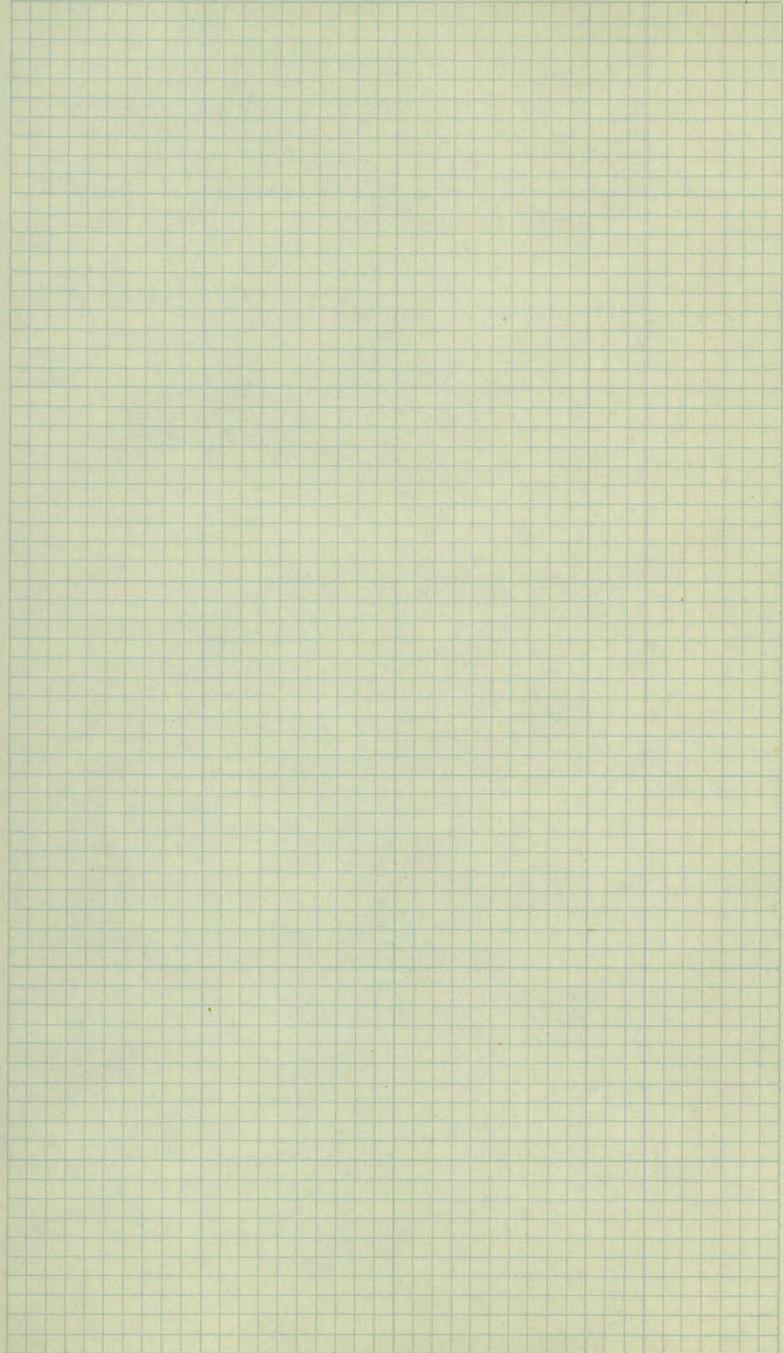
150'

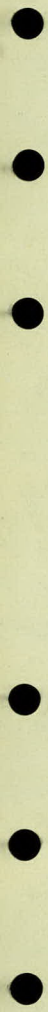
Trees

24
Dw.
2-5-
Ft.
47+10

10 11

• +48 T.P. & P.P.





56

54

53

52

51

50

+75 End Timber

+55 Rd Sign 22'

+46 P.P. 28'

Waste
Fence is 3 strand
Barbed Wire Post 15' R

Waste
10-11

Corn Field

+28 X Drain 24' x 5' x CM

Dr Ditch 47

+75 Dr. Ditch 75' 2' R. 16'

+46 T.P. Dead 27'

Rd
10-11

Scattered
Timbers
pasture

+03 Fe Cor 38'

+95 Rd Sign 25'

+93 Fe Cor 46 Prop Temp 32'

+87 P.P. 27'

+81 P.P. 37'

+59 R Co Rd B

+34 P.P. 60'

+27 T.P. 20'

+23 P.P. 27'

Rd
14-24'

+90 Rd
19-29'

+80 Rd
27-42'

+72 Rd
47-60'

+45 Rd
42-69

+40 Rd
29-47

+25 Rd
16-29

Rd
10-15'

Waste

+96 Rd Sign 34'

+81 P.P. 71'

+37 G.P. 71'
+36 T.P. 73'

+01 Rd Sign 24'

Hay Field

+73 P.P. 27'

Rd
10-10

Hay Meadow

+34 Pole Dead 23'

+13 T.P. Sign 7 38'

+12 Fe Cor 38'

62

61

60

59

58

57

56

+37 P.P. 28'

Cable 15'

Fe 33'

Rd
12-11

+37 Beg Yard.

+37 P.P. 60'

+40 Beg. Scattered
Timber

+69 T.P. Dead 27'
End.

+78 P.P. 28'

Pasture

+60 X Drain 24" CM 68'
34-34'

Fe 33'

Rd
11-11'

+05 T.P. Dead 27'

+22 P.P. 28'

Fe 33'

Rd
11-11'

+64 T.P. Dead 27'

+62 P.P. 28'

Waste

1644 Underground Tel Cable

Meadow

+60 End Corn

+29 T.P. Dead 27'

+06 P.P. 28'

Fe 33'

Rd
10-11

Cornfield

+02 T.P. Dead 27'

69

68

67

See Highway Dept
Int Plan For Clever Ave

66

65

64

63

+99 P.P. 28'

+50 Beg Cultivation

+10 Beg Timber

+87 P.P. 28'

Rd
18-17

+78.5 End of ROW
STH #36

+54 End Bank 16'

+50 End Bank 16'

+25 Bank 20 +21 P.P. 28'

+25 Bank 20

+10 Bank 28

+10 Bank 29

+96 Bank 55

+96 Bank 53

+60 Bank 55 +70

+60 Bank 54

+50 Bank 32'

+50 Bank 34

+25 Bank 17'

+25 Bank 15

+07 Beg Bankett Sec. 13

+07 Bankett 16'

Rd
10-11

ROW
STH #36
24' 15"
7 Corners
+75 Corners
48' 11"

+78.5 Fe Cor R.O.W Fe West 53'-

+78.5 ROW

(+72 Farm En + New #36 STH
15" 1200 M 26'

End Tom Patch

+51 P.P. 28

Sea Hard Timber
Underground Cable 15' 12"

Fe 33'

Rd
10-9

End Land

+20 Beg Tom Patch

+08 Ent 25'
15" 1200 M

+95 P.P. 28

59' 15"
10 5/8 1/2 0



2.6426

+1750 West Cor 1 1/2 SL

Fe 33

76

75

74

73

72

71

70

+ 20 End Row 25 Trees
+ 14 P.P 28'

Rd
12-10

Grain Field
Fe 33'

Farm Ent

15" x 38' CM

Farm Ent

+ 69 Farm Ent

+ 69 Fee Cor 33

+ 70 P.P 28'

Hay Meadow

Box 20

+ 25 Beg Row Trees
25 - 37' LT

Rd
12-11

+ 88 12" Oak 37

+ 46 15" Oak 35'

+ 27 12" Oak 35'

+ 10 End Timber

+ 05 P.P 28'

Rd
12-11

+ 11 12" Oak 37
+ 11 15" Oak 35'
+ 11 12" Oak 35'
+ 11 End Timber
+ 11 P.P 28'

Rd
13-10

+ 48 P.P 26'

Scattered Timber

Underground Cable 15' LT

+ 14 Farm 752)
15 x 20 CM

Cultivation

Rd
11-10

78

77

+98 Row Williams
60'

Hay Meadow

Underground Cable 15kV

55 55 55

8d
11-10

Fe 5-5' and Barb Wire

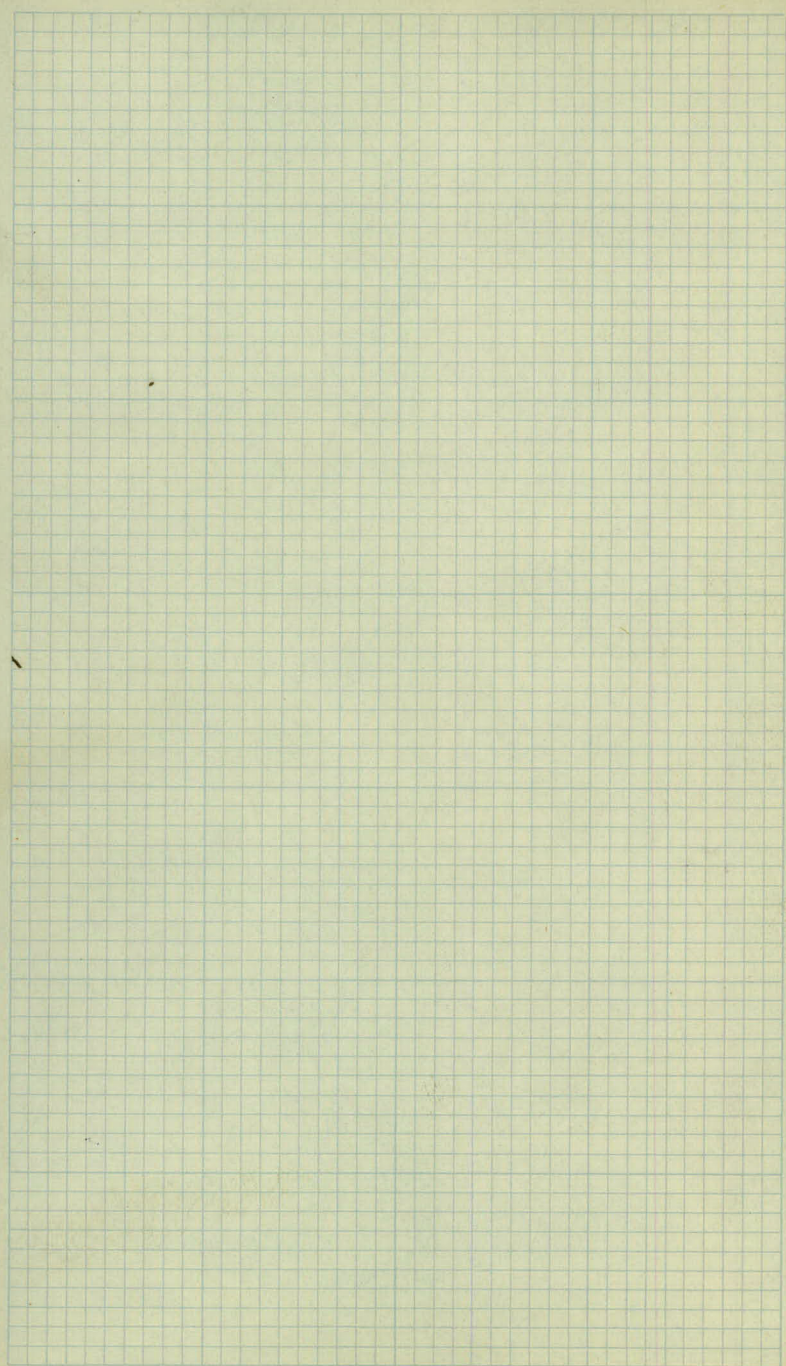
Grain Field

+83 Fe Cor 33

+69 P.P. 28'

+73 T.P. Dent 27'

+63 X Drain
24" X 64' @ M



Cleveland Ave.

Bench Levels, proposed paving
from Carpenter Ave. to $1\frac{1}{2}$ miles North.

Sta.	+	+	-	Elev.	
B.M.	5.84	986.56		980.74	
B.M.	2.19	986.95	1.80	984.76	✓
B.M.	1.05	984.06	5.94	981.01	✓
B.M.	5.27	984.57	4.76	977.30	✓
B.M.	4.40	986.79	0.18	984.39	✓
B.M.	2.75	986.79	2.75	984.04	✓
B.M.	9.74	994.54	3.99	984.80	✓
B.M.	5.33	994.90	4.97	987.57	✓
B.M.	2.10	994.90	2.10	990.80	✓
B.M.	3.63	983.75	13.48	979.67	✓
B.M.	3.58	983.75	3.58	979.67	✓
B.M.	3.54	973.46	12.51	969.74	✓
B.M.	6.48	978.19	1.35	971.91	✓
B.M.	4.90	978.19	4.90	973.29	✓
B.M.	5.84	970.40	13.63	964.56	✓
B.M.	5.54	969.51	6.43	963.97	✓
B.M.	1.20	958.39	14.34	957.19	✓
B.M.	4.63	954.86	10.16	948.73	✓
B.M.	5.14	949.39	5.59	944.27	✓
B.M.			10.21	939.18	✓

Remarks.

● Top of Stone Monument Ctr. Carpenter
& Cleveland Aves.

Nail in apple pole 30' Lt. Sta. 7+15

● " " power pole 30' Rt. Sta. 10+46

Spike in 26" Elm 100' Lt. Sta. 18+25

" " 24" Oak 70' Lt. Sta. 23+88

● No. Cor of No. Conc Pedestal of Radio Tower at
Cleveland Av. & Co. Rd. A[✓] - Sta. 23+84 = 100' Lt.

Top of Mon. Ctr. Cleveland Av. & A[✓]

Spike in Power pole 30' Rt. Sta. 23+20

Top of Conc. step of dwelling, So. end of lower step
100' Rt. Sta. 36+55

Spike in power pole 30' Lt. Sta. 39+90

Top of lower conc step of dwelling So. end. 80'
Rt. Sta. 40+40

Spike in power pole 30' Lt. Sta. 43+00

" " 10" Oak 30' Rt. Sta. 49+68

● Top Stone Mont. Cleveland & B[✓]

Spike in power pole 30' Lt. Sta. 56+06

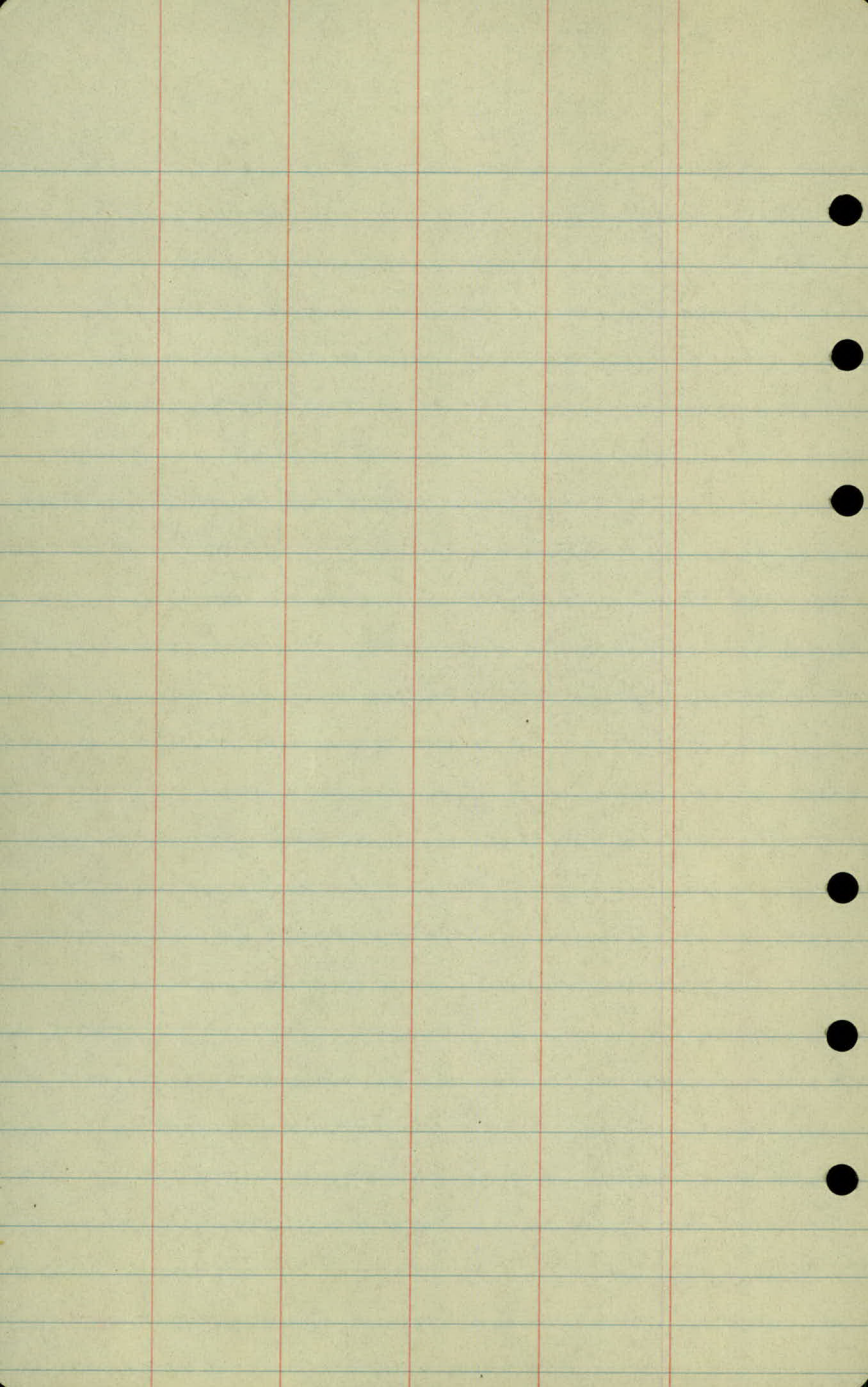
" " 12" Oak 50' Lt. Sta. 61+46

● " " power pole 30' Lt. Sta. 67+35

" " 24" Oak 35' Lt. Sta. 71+25

" " Fence post 50' Rt. Sta. 75+65

Top of Stone Mon Sta. 78+99²⁵



1
Proposed Paving.

Soundings
on Cleveland Ave
From Larp. to $1\frac{1}{2}$ Mi. No.

7/37

	Black Top	oiled Gravel	Clay	
1+00	2½"	3"	6"	
10+00	1½"	4"	6"	
			Gravel	Clay
20+00	1"	2"	6"	6"
30+00	1¼"	1¼"	3"	6"
40+00	1¼"	3"	3"	6"
50+00	1"	1½"	4"	6"
60+00	1¼"	1½"	4"	6"
70+00	1"	1½"	6"	6"

Cleveland Ave.

Preliminary cross
sections for proposed paving from
Larpenteur Ave $1\frac{1}{4}$ miles North.

7/37

Sta.	+	π	-	Elev.
BM	5.48	986.22		980.74.

0+00				80.7.
0+10 =	End of Concrete paving (See X-500 at end of notes)			
+25				81.1.

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

+75				81.4
-----	--	--	--	------

/				81.5.
---	--	--	--	-------

+25				81.6.
-----	--	--	--	-------

+50				81.6.
-----	--	--	--	-------

+75				81.6.
-----	--	--	--	-------

✓				81.6.
---	--	--	--	-------

+25				81.6.
-----	--	--	--	-------

+50				81.6.
-----	--	--	--	-------

Lt.

£

Rt.

2

Top of stone mon. etc. Cleveland &
 Lorpen Tour Aves.

$$\begin{array}{r} 485 \\ 50 \end{array} \quad \begin{array}{r} 5.11 \\ 25 \end{array} \quad \begin{array}{r} 5.5 \\ 548 \\ 25 \end{array} \quad \begin{array}{r} 5.95 \\ 25 \end{array} \quad \begin{array}{r} 6.34 \\ 50 \end{array}$$

$$\begin{array}{r} 5.76 \\ 25 \end{array} \quad \begin{array}{r} 5.50 \\ 20 \end{array} \quad \begin{array}{r} 5.22 \\ 15 \end{array} \quad \begin{array}{r} 4.99 \\ 10 \end{array} \quad \begin{array}{r} 5.02 \\ 6 \end{array} \quad \begin{array}{r} 5.1 \\ 5.11 \\ 5 \end{array} \quad \begin{array}{r} 5.24 \\ 10 \end{array} \quad \begin{array}{r} 5.40 \\ 15 \end{array} \quad \begin{array}{r} 5.66 \\ 20 \end{array} \quad \begin{array}{r} 5.95 \\ 25 \end{array}$$

$$\begin{array}{r} 5.2 \\ 33 \end{array} \quad \begin{array}{r} 6.2 \\ 21 \end{array} \quad \begin{array}{r} 5.3 \\ 16.5 \end{array} \quad \begin{array}{r} 4.98 \\ 10 \end{array} \quad \begin{array}{r} 4.88 \\ 5 \end{array} \quad \begin{array}{r} 4.9 \\ 4.90 \\ 5 \end{array} \quad \begin{array}{r} 4.95 \\ 5 \end{array} \quad \begin{array}{r} 5.13 \\ 10 \end{array} \quad \begin{array}{r} 5.41 \\ 15 \end{array} \quad \begin{array}{r} 5.82 \\ 20 \end{array} \quad \begin{array}{r} 6.4 \\ 33 \end{array}$$

$$\begin{array}{r} 5.30 \\ 15 \end{array} \quad \begin{array}{r} 4.94 \\ 10 \end{array} \quad \begin{array}{r} 4.80 \\ 5 \end{array} \quad \begin{array}{r} 4.8 \\ 4.78 \\ 5 \end{array} \quad \begin{array}{r} 4.84 \\ 5 \end{array} \quad \begin{array}{r} 4.92 \\ 10 \end{array} \quad \begin{array}{r} 5.20 \\ 15 \end{array} \quad \begin{array}{r} 6.20 \\ 23 \end{array}$$

$$\begin{array}{r} 5.0 \\ 30 \end{array} \quad \begin{array}{r} 5.8 \\ 26 \end{array} \quad \begin{array}{r} 6.0 \\ 21 \end{array} \quad \begin{array}{r} 4.98 \\ 13.2 \end{array} \quad \begin{array}{r} 4.80 \\ 10 \end{array} \quad \begin{array}{r} 4.72 \\ 5 \end{array} \quad \begin{array}{r} 4.7 \\ 4.68 \\ 5 \end{array} \quad \begin{array}{r} 4.77 \\ 5 \end{array} \quad \begin{array}{r} 4.86 \\ 10 \end{array} \quad \begin{array}{r} 5.08 \\ 15 \end{array} \quad \begin{array}{r} 6.0 \\ 22 \end{array} \quad \begin{array}{r} 6.1 \\ 33 \end{array}$$

$$\begin{array}{r} 4.85 \\ 14 \end{array} \quad \begin{array}{r} 4.73 \\ 10 \end{array} \quad \begin{array}{r} 4.65 \\ 5 \end{array} \quad \begin{array}{r} 4.6 \\ 4.62 \\ 5 \end{array} \quad \begin{array}{r} 4.69 \\ 5 \end{array} \quad \begin{array}{r} 4.80 \\ 10 \end{array} \quad \begin{array}{r} 5.08 \\ 16.4 \end{array}$$

$$\begin{array}{r} 4.8 \\ 31 \end{array} \quad \begin{array}{r} 5.8 \\ 24 \end{array} \quad \begin{array}{r} 6.0 \\ 21 \end{array} \quad \begin{array}{r} 5.00 \\ 18.8 \end{array} \quad \begin{array}{r} 4.75 \\ 10 \end{array} \quad \begin{array}{r} 4.68 \\ 5 \end{array} \quad \begin{array}{r} 4.6 \\ 4.59 \\ 5 \end{array} \quad \begin{array}{r} 4.67 \\ 5 \end{array} \quad \begin{array}{r} 4.84 \\ 10 \end{array} \quad \begin{array}{r} 4.90 \\ 12.7 \end{array} \quad \begin{array}{r} 5.32 \\ 17.3 \end{array} \quad \begin{array}{r} 5.9 \\ 20 \end{array} \quad \begin{array}{r} 6.2 \\ 27 \end{array} \quad \begin{array}{r} 5.9 \\ 33 \end{array}$$

$$\begin{array}{r} 5.04 \\ 16.1 \end{array} \quad \begin{array}{r} 4.84 \\ 10 \end{array} \quad \begin{array}{r} 4.72 \\ 5 \end{array} \quad \begin{array}{r} 4.6 \\ 4.61 \\ 5 \end{array} \quad \begin{array}{r} 4.67 \\ 5 \end{array} \quad \begin{array}{r} 4.88 \\ 10 \end{array} \quad \begin{array}{r} 4.92 \\ 13 \end{array} \quad \begin{array}{r} 5.15 \\ 16.1 \end{array}$$

$$\begin{array}{r} 5.5 \\ 30 \end{array} \quad \begin{array}{r} 5.9 \\ 19 \end{array} \quad \begin{array}{r} 5.00 \\ 14 \end{array} \quad \begin{array}{r} 4.83 \\ 8.4 \end{array} \quad \begin{array}{r} 4.73 \\ 5 \end{array} \quad \begin{array}{r} 4.6 \\ 4.60 \\ 5 \end{array} \quad \begin{array}{r} 4.70 \\ 5 \end{array} \quad \begin{array}{r} 4.90 \\ 10 \end{array} \quad \begin{array}{r} 4.95 \\ 12.7 \end{array} \quad \begin{array}{r} 5.23 \\ 16.2 \end{array} \quad \begin{array}{r} 6.0 \\ 21 \end{array} \quad \begin{array}{r} 6.2 \\ 33 \end{array}$$

$$\begin{array}{r} 5.01 \\ 13.6 \end{array} \quad \begin{array}{r} 4.87 \\ 11.5 \end{array} \quad \begin{array}{r} 4.88 \\ 9.3 \end{array} \quad \begin{array}{r} 4.76 \\ 5 \end{array} \quad \begin{array}{r} 4.6 \\ 4.63 \\ 5 \end{array} \quad \begin{array}{r} 4.74 \\ 5 \end{array} \quad \begin{array}{r} 5.01 \\ 10 \end{array} \quad \begin{array}{r} 5.10 \\ 12.5 \end{array} \quad \begin{array}{r} 5.15 \\ 14.1 \end{array} \quad \begin{array}{r} 5.4 \\ 16.4 \end{array}$$

$$\begin{array}{r} 6.2 \\ 31 \end{array} \quad \begin{array}{r} 6.0 \\ 20 \end{array} \quad \begin{array}{r} 5.4 \\ 18 \end{array} \quad \begin{array}{r} 4.89 \\ 12.7 \end{array} \quad \begin{array}{r} 4.85 \\ 10 \end{array} \quad \begin{array}{r} 4.77 \\ 5 \end{array} \quad \begin{array}{r} 4.6 \\ 4.64 \\ 5 \end{array} \quad \begin{array}{r} 4.74 \\ 5 \end{array} \quad \begin{array}{r} 4.96 \\ 10 \end{array} \quad \begin{array}{r} 5.04 \\ 12.6 \end{array} \quad \begin{array}{r} 5.15 \\ 14.1 \end{array} \quad \begin{array}{r} 5.46 \\ 17 \end{array} \quad \begin{array}{r} 6.2 \\ 21 \end{array} \quad \begin{array}{r} 5.9 \\ 33 \end{array}$$

Sta. + π - Elev.

986.22

2+75

81.6

3

81.6

+25

81.6

+50

81.7

+75

81.8

4

82.0

+25

82.1

+50

82.3

+75

82.5

5

82.6

B.M.

2.78

987.04

1.46

984.76

+75

82.6

Lt.

E

Rt

3

$$\frac{5.03}{14.7} \quad \frac{4.90}{10} \quad \frac{4.74}{5} \quad \frac{4.61}{5} \quad \frac{4.71}{5} \quad \frac{4.89}{10} \quad \frac{4.92}{12.3} \quad \frac{5.1}{14.4} \quad \frac{5.7}{18}$$

4.0

$$\frac{6.1}{21} \quad \frac{6.0}{21} \quad \frac{5.1}{17} \quad \frac{4.84}{12.8} \quad \frac{4.76}{10} \quad \frac{4.64}{5} \quad \frac{4.56}{5} \quad \frac{4.66}{5} \quad \frac{4.89}{10} \quad \frac{5.00}{12.9} \quad \frac{5.2}{15.1} \quad \frac{6.7}{21} \quad \frac{7.4}{33}$$

$$\frac{4.78}{15.1} \quad \frac{4.67}{10} \quad \frac{4.65}{5} \quad \frac{4.56}{5} \quad \frac{4.65}{5} \quad \frac{4.84}{10} \quad \frac{4.91}{12.9} \quad \frac{5.07}{15.5}$$

$$\frac{6.1}{30} \quad \frac{5.9}{21} \quad \frac{5.2}{18} \quad \frac{4.83}{14.3} \quad \frac{4.62}{10} \quad \frac{4.57}{5} \quad \frac{4.55}{5} \quad \frac{4.59}{5} \quad \frac{4.78}{10} \quad \frac{4.88}{12.7} \quad \frac{5.04}{14.7} \quad \frac{5.76}{18} \quad \frac{6.7}{21} \quad \frac{7.4}{33}$$

4.4

$$\frac{4.81}{13.8} \quad \frac{4.47}{10} \quad \frac{4.38}{5} \quad \frac{4.35}{5} \quad \frac{4.47}{5} \quad \frac{4.58}{10} \quad \frac{4.80}{12.3} \quad \frac{4.95}{14.8}$$

$$\frac{5.8}{30} \quad \frac{6.0}{21} \quad \frac{5.05}{17} \quad \frac{4.86}{12.7} \quad \frac{4.38}{10} \quad \frac{4.26}{5} \quad \frac{4.23}{5} \quad \frac{4.29}{5} \quad \frac{4.34}{10} \quad \frac{4.57}{12.1} \quad \frac{4.68}{14.6} \quad \frac{5.14}{18} \quad \frac{6.3}{22} \quad \frac{7.1}{33}$$

4.1

$$\frac{4.54}{14.9} \quad \frac{4.33}{10} \quad \frac{4.23}{5} \quad \frac{4.09}{5} \quad \frac{4.11}{5} \quad \frac{4.24}{10} \quad \frac{4.32}{13.1} \quad \frac{4.52}{16.3}$$

3.9

$$\frac{5.0}{30} \quad \frac{4.5}{16} \quad \frac{4.12}{12.1} \quad \frac{4.02}{10} \quad \frac{3.95}{5} \quad \frac{3.85}{5} \quad \frac{3.90}{5} \quad \frac{4.00}{10} \quad \frac{4.11}{13.6} \quad \frac{4.2}{14.7} \quad \frac{5.1}{20} \quad \frac{5.8}{33}$$

$$\frac{4.11}{14.3} \quad \frac{3.88}{10} \quad \frac{3.75}{5} \quad \frac{3.69}{5} \quad \frac{3.73}{5} \quad \frac{3.90}{10} \quad \frac{4.02}{14.9} \quad \frac{4.3}{18.9}$$

3.6

$$\frac{4.4}{30} \quad \frac{4.7}{20} \quad \frac{4.06}{15.1} \quad \frac{3.78}{10} \quad \frac{3.67}{5} \quad \frac{3.58}{5} \quad \frac{3.68}{5} \quad \frac{3.81}{10} \quad \frac{3.90}{13.7} \quad \frac{4.22}{17.4} \quad \frac{4.8}{20} \quad \frac{4.7}{33}$$

Nail in cable pole 30' Lt 510.7 + 15

$$\frac{5.24}{15.3} \quad \frac{5.14}{10} \quad \frac{5.00}{5} \quad \frac{4.88}{5} \quad \frac{4.94}{5} \quad \frac{5.06}{10} \quad \frac{5.19}{13.9} \quad \frac{5.5}{17.4}$$

54. + K - Elev.

987.54

5+50 82.6

+25 82.6

6 82.6

+25 82.6

+50 82.6

+25 82.6

7 82.6

+25 82.5

+50 82.5

T.R. 2.23 986.99 2.78 984.76

+25 82.5

8 82.5

+25 82.4

LT

E

RT

4

4.9

$\frac{4.7}{30} \frac{5.6}{24} \frac{6.0}{21} \frac{5.4}{18} \frac{5.30}{14.4} \frac{5.12}{10} \frac{5.00}{5} \frac{4.90}{5} \frac{4.99}{5} \frac{5.16}{10} \frac{5.40}{10} \frac{5.6}{18.8} \frac{6.1}{23} \frac{5.4}{23}$

$\frac{5.26}{14.5} \frac{5.09}{10} \frac{5.04}{5} \frac{4.92}{5} \frac{5.02}{5} \frac{5.16}{10} \frac{5.93}{15} \frac{5.65}{18.7}$

4.9

$\frac{4.9}{30} \frac{5.8}{22} \frac{5.9}{17} \frac{5.30}{15.6} \frac{5.20}{12.6} \frac{5.08}{10} \frac{5.00}{5} \frac{4.89}{5} \frac{4.98}{5} \frac{5.08}{10} \frac{5.28}{14.8} \frac{5.65}{19} \frac{6.1}{24} \frac{5.1}{33}$

$\frac{5.21}{14.9} \frac{5.07}{10} \frac{5.02}{5} \frac{4.93}{5} \frac{4.97}{5} \frac{5.16}{10} \frac{5.40}{16.4}$

4.9

$\frac{5.1}{31} \frac{6.2}{23} \frac{6.2}{20} \frac{5.40}{16} \frac{5.13}{10} \frac{5.04}{5} \frac{4.92}{5} \frac{4.96}{5} \frac{5.15}{10} \frac{5.40}{18.7} \frac{5.57}{18} \frac{5.90}{21} \frac{6.0}{24} \frac{5.0}{33}$

$\frac{5.28}{15.4} \frac{5.06}{10} \frac{4.87}{5} \frac{4.89}{5} \frac{4.94}{5} \frac{5.03}{10} \frac{5.16}{14.2} \frac{5.44}{17.8}$

4.9

$\frac{5.1}{31} \frac{6.1}{22} \frac{6.1}{19} \frac{5.47}{16} \frac{5.23}{12.7} \frac{5.10}{10} \frac{5.01}{5} \frac{4.90}{5} \frac{5.01}{5} \frac{5.14}{10} \frac{5.32}{14.2} \frac{5.46}{17.3} \frac{5.8}{20} \frac{5.8}{25} \frac{4.7}{33}$

$\frac{5.47}{16.1} \frac{5.18}{10} \frac{5.08}{5} \frac{4.96}{5} \frac{5.08}{5} \frac{5.24}{10} \frac{5.38}{14.7} \frac{5.52}{17}$

5.0

$\frac{5.0}{32} \frac{6.1}{24} \frac{6.1}{20} \frac{6.4}{18.8} \frac{5.31}{10} \frac{5.16}{5} \frac{5.02}{5} \frac{5.09}{5} \frac{5.27}{10} \frac{5.34}{13.2} \frac{5.5}{17.2} \frac{6.0}{20} \frac{6.1}{25} \frac{5.0}{32}$

$\frac{4.94}{16.2} \frac{4.73}{10} \frac{4.60}{5} \frac{4.46}{5} \frac{4.84}{5} \frac{4.64}{10} \frac{4.75}{16.3}$

$\frac{5.6}{32} \frac{4.9}{20} \frac{4.75}{15.6} \frac{4.75}{10} \frac{4.65}{5} \frac{4.5}{5} \frac{4.59}{5} \frac{4.73}{10} \frac{4.94}{16.4} \frac{6.7}{20} \frac{5.5}{33}$

$\frac{5.17}{18.2} \frac{4.89}{10} \frac{4.79}{5} \frac{4.59}{5} \frac{4.63}{5} \frac{4.77}{10} \frac{5.01}{16}$

Sta. + π - Elev.

986.99

8+50

82.3

+75

82.2

9

82.1

+25

82.2

+50

82.2

+75

82.1

10

82.2

+25

82.2

+50

82.2

+75

82.2

11

82.1

B.M.

3.51

984.54

5.98

981.01

Lt.

L

Rt.

5

4.7

$\frac{58}{20}$	$\frac{52}{19.4}$	$\frac{483}{10}$	$\frac{490}{5}$	$\frac{470}{5}$	$\frac{477}{5}$	$\frac{481}{10}$	$\frac{528}{16.8}$	$\frac{62}{21}$	$\frac{7.0}{23}$
-----------------	-------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------	-----------------	------------------

4.8

$\frac{79}{37}$	$\frac{74}{24}$	$\frac{56}{17}$	$\frac{532}{13.2}$	$\frac{522}{10}$	$\frac{499}{5}$	$\frac{484}{5}$	$\frac{490}{5}$	$\frac{504}{10}$	$\frac{532}{16.4}$	$\frac{68}{23}$	$\frac{72}{33}$
-----------------	-----------------	-----------------	--------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------	-----------------	-----------------

4.9

$\frac{81}{33}$	$\frac{76}{24}$	$\frac{58}{17.4}$	$\frac{541}{14.2}$	$\frac{520}{10}$	$\frac{501}{5}$	$\frac{485}{5}$	$\frac{494}{5}$	$\frac{514}{10}$	$\frac{545}{17.1}$	$\frac{66}{23}$	$\frac{70}{28}$	$\frac{70}{33}$
-----------------	-----------------	-------------------	--------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------	-----------------	-----------------	-----------------

$\frac{55}{17.4}$	$\frac{524}{14.2}$	$\frac{525}{10}$	$\frac{493}{5}$	$\frac{478}{5}$	$\frac{492}{5}$	$\frac{509}{10}$	$\frac{542}{16.6}$
-------------------	--------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------

4.8

$\frac{62}{33}$	$\frac{52}{24}$	$\frac{500}{16.4}$	$\frac{491}{10}$	$\frac{495}{5}$	$\frac{482}{5}$	$\frac{488}{5}$	$\frac{506}{10}$	$\frac{533}{16.3}$	$\frac{564}{18.8}$	$\frac{63}{23}$	$\frac{64}{27}$	$\frac{61}{33}$
-----------------	-----------------	--------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------	--------------------	-----------------	-----------------	-----------------

$\frac{51}{18}$	$\frac{544}{10}$	$\frac{502}{5}$	$\frac{486}{5}$	$\frac{491}{5}$	$\frac{503}{10}$	$\frac{522}{16.7}$
-----------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------

4.8

$\frac{51}{33}$	$\frac{503}{16.4}$	$\frac{512}{10}$	$\frac{489}{5}$	$\frac{482}{5}$	$\frac{490}{5}$	$\frac{502}{10}$	$\frac{527}{16.4}$	$\frac{605}{21}$	$\frac{62}{27}$	$\frac{55}{32}$
-----------------	--------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------	------------------	-----------------	-----------------

$\frac{517}{16.6}$	$\frac{502}{10}$	$\frac{488}{5}$	$\frac{477}{5}$	$\frac{49}{5}$	$\frac{509}{10}$	$\frac{522}{15.1}$
--------------------	------------------	-----------------	-----------------	----------------	------------------	--------------------

4.8

$\frac{50}{33}$	$\frac{50}{28}$	$\frac{58}{21}$	$\frac{518}{16.4}$	$\frac{508}{10}$	$\frac{488}{5}$	$\frac{480}{5}$	$\frac{487}{5}$	$\frac{502}{10}$	$\frac{524}{15.2}$	$\frac{553}{17.5}$	$\frac{63}{22}$	$\frac{62}{26}$	$\frac{55}{33}$
-----------------	-----------------	-----------------	--------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------	--------------------	-----------------	-----------------	-----------------

$\frac{574}{20}$	$\frac{541}{17.1}$	$\frac{506}{10}$	$\frac{494}{5}$	$\frac{479}{5}$	$\frac{489}{5}$	$\frac{507}{10}$	$\frac{524}{12.5}$	$\frac{542}{16.8}$
------------------	--------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------	--------------------

4.9

$\frac{57}{33}$	$\frac{52}{28}$	$\frac{59}{25}$	$\frac{59}{20}$	$\frac{532}{17.4}$	$\frac{518}{10}$	$\frac{504}{5}$	$\frac{492}{5}$	$\frac{506}{6}$	$\frac{521}{10}$	$\frac{544}{14.7}$	$\frac{574}{19}$	$\frac{62}{20}$	$\frac{55}{27}$	$\frac{63}{33}$
-----------------	-----------------	-----------------	-----------------	--------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------	------------------	-----------------	-----------------	-----------------

Spike in power pole 30' Rt. Sta. 14+46

Sta. + π - Elev.

984.5[.]✓

11+25

981.8[.]✓

+50

81.6[.]✓

+75

81.4[.]✓

12

81.1[.]✓

+25

80.8[.]✓

+50

80.5[.]✓

+75

80.2[.]✓

13

79.9[.]✓

+25

79.7[.]✓

+50

79.4[.]✓

+75

79.1[.]✓

14

78.8[.]✓

+25

78.5[.]✓

Lx.

2

Rt.

6

$$\frac{290}{15.5} \quad \frac{280}{10} \quad \frac{273}{5} \quad \frac{268}{5} \quad \frac{277}{5} \quad \frac{287}{10} \quad \frac{322}{16.3}$$

2.9

$$\frac{33}{33} \quad \frac{38}{27} \quad \frac{39}{21} \quad \frac{336}{11.3} \quad \frac{320}{10} \quad \frac{303}{5} \quad \frac{292}{5} \quad \frac{296}{5} \quad \frac{313}{10} \quad \frac{341}{16.4} \quad \frac{41}{21} \quad \frac{43}{27} \quad \frac{40}{33}$$

$$\frac{365}{15.7} \quad \frac{349}{10} \quad \frac{320}{5} \quad \frac{311}{5} \quad \frac{325}{5} \quad \frac{345}{10} \quad \frac{363}{14.4} \quad \frac{382}{17}$$

3.4

$$\frac{48}{33} \quad \frac{46}{25} \quad \frac{48}{24} \quad \frac{47}{20} \quad \frac{397}{15.2} \quad \frac{376}{10} \quad \frac{355}{5} \quad \frac{343}{5} \quad \frac{355}{5} \quad \frac{382}{10} \quad \frac{40}{15.6} \quad \frac{45}{19} \quad \frac{48}{25} \quad \frac{39}{33}$$

$$\frac{416}{15.8} \quad \frac{395}{10} \quad \frac{382}{5} \quad \frac{372}{5} \quad \frac{383}{5} \quad \frac{407}{10} \quad \frac{426}{11.4}$$

$$\frac{48}{33} \quad \frac{52}{28} \quad \frac{55}{27} \quad \frac{54}{21} \quad \frac{46}{15.4} \quad \frac{420}{10} \quad \frac{412}{5} \quad \frac{397}{5} \quad \frac{404}{5} \quad \frac{421}{10} \quad \frac{437}{15.2} \quad \frac{50}{19} \quad \frac{51}{23} \quad \frac{33}{33}$$

$$\frac{470}{16.1} \quad \frac{447}{10} \quad \frac{438}{5} \quad \frac{429}{5} \quad \frac{436}{5} \quad \frac{455}{10} \quad \frac{476}{11.7}$$

4.6

$$\frac{61}{33} \quad \frac{60}{28} \quad \frac{59}{21} \quad \frac{502}{11.7} \quad \frac{471}{10} \quad \frac{465}{5} \quad \frac{458}{5} \quad \frac{466}{5} \quad \frac{478}{10} \quad \frac{506}{11.5} \quad \frac{517}{20} \quad \frac{61}{28} \quad \frac{61}{33}$$

$$\frac{526}{14.7} \quad \frac{506}{10} \quad \frac{490}{5} \quad \frac{476}{5} \quad \frac{482}{5} \quad \frac{500}{10} \quad \frac{526}{14.8}$$

5.1

$$\frac{70}{28} \quad \frac{70}{26} \quad \frac{61}{25} \quad \frac{63}{19} \quad \frac{553}{14.9} \quad \frac{524}{10} \quad \frac{517}{5} \quad \frac{506}{5} \quad \frac{516}{5} \quad \frac{534}{10} \quad \frac{55}{14.9} \quad \frac{62}{20} \quad \frac{63}{27} \quad \frac{60}{33}$$

$$\frac{64}{33} \quad \frac{66}{29}$$

$$\frac{587}{14.7} \quad \frac{573}{10} \quad \frac{553}{5} \quad \frac{543}{5} \quad \frac{547}{5} \quad \frac{562}{10} \quad \frac{58}{11.1}$$

5.7

$$\frac{75}{33} \quad \frac{74}{27} \quad \frac{70}{21} \quad \frac{622}{11.5} \quad \frac{602}{10} \quad \frac{582}{5} \quad \frac{569}{5} \quad \frac{568}{5} \quad \frac{582}{10} \quad \frac{610}{11.9} \quad \frac{70}{31} \quad \frac{71}{27} \quad \frac{67}{33}$$

$$\frac{666}{15.9} \quad \frac{635}{10} \quad \frac{606}{5} \quad \frac{597}{5} \quad \frac{602}{5} \quad \frac{625}{10} \quad \frac{673}{16.1}$$

Sta. + π - Elev.

984.52

14 + 50

78.1 ✓

+ 75

77.8 ✓

15

77.5 ✓

B.M.

4.09

981.37 ✓

7.22

777.30 ✓

+ 25

77.3 ✓

+ 50

77.1 ✓

+ 75

76.8 ✓

16

76.7 ✓

+ 25

76.6 ✓

+ 50

76.6 ✓

+ 75

76.5 ✓

17

76.5 ✓

Lt.

E

Rt.

7

6.4

$$\frac{108}{33} \quad \frac{86}{26} \quad \frac{708}{16.1} \quad \frac{673}{10} \quad \frac{643}{5} \quad \frac{637}{5} \quad \frac{644}{5} \quad \frac{671}{10} \quad \frac{70}{16.3} \quad \frac{78}{23} \quad \frac{88}{33}$$

$$\frac{73}{16.2} \quad \frac{710}{10} \quad \frac{682}{5} \quad \frac{670}{5} \quad \frac{679}{5} \quad \frac{708}{10} \quad \frac{737}{15.7}$$

$$\frac{112}{33} \quad \frac{111}{30} \quad \frac{95}{22} \quad \frac{762}{15.4} \quad \frac{742}{10} \quad \frac{741}{5} \quad \frac{710}{20.1} \quad \frac{709}{5} \quad \frac{730}{10} \quad \frac{720}{15.9} \quad \frac{91}{21} \quad \frac{108}{27} \quad \frac{113}{33}$$

Spoke in 36" Elm 100' Lt. 56.18 + 25

$$\frac{478}{15.8} \quad \frac{450}{10} \quad \frac{423}{5} \quad \frac{411}{5} \quad \frac{412}{5} \quad \frac{452}{10} \quad \frac{483}{16.2}$$

$$\frac{73}{33} \quad \frac{71}{31} \quad \frac{61}{24} \quad \frac{491}{17.5} \quad \frac{462}{10} \quad \frac{442}{5} \quad \frac{432}{5} \quad \frac{442}{5} \quad \frac{461}{10} \quad \frac{513}{16.8} \quad \frac{62}{21} \quad \frac{82}{27} \quad \frac{85}{33}$$

$$\frac{503}{14.8} \quad \frac{488}{10} \quad \frac{465}{5} \quad \frac{456}{5} \quad \frac{466}{5} \quad \frac{481}{10} \quad \frac{52}{16.2}$$

$$\frac{69}{33} \quad \frac{69}{28} \quad \frac{64}{22} \quad \frac{519}{15} \quad \frac{502}{10} \quad \frac{475}{5} \quad \frac{470}{5} \quad \frac{473}{5} \quad \frac{483}{10} \quad \frac{515}{16.2} \quad \frac{73}{24} \quad \frac{83}{28} \quad \frac{87}{32}$$

$$\frac{545}{15.2} \quad \frac{521}{12.2} \quad \frac{512}{10} \quad \frac{484}{5} \quad \frac{476}{5} \quad \frac{481}{5} \quad \frac{503}{10} \quad \frac{537}{11.8}$$

$$\frac{73}{33} \quad \frac{71}{21} \quad \frac{568}{16.2} \quad \frac{528}{12.2} \quad \frac{522}{10} \quad \frac{493}{5} \quad \frac{482}{5} \quad \frac{484}{5} \quad \frac{499}{10} \quad \frac{509}{12.8} \quad \frac{528}{16.4} \quad \frac{65}{21} \quad \frac{81}{26} \quad \frac{88}{32}$$

$$\frac{555}{15.2} \quad \frac{536}{12.2} \quad \frac{522}{10} \quad \frac{497}{5} \quad \frac{486}{5} \quad \frac{489}{5} \quad \frac{503}{10} \quad \frac{515}{13.7} \quad \frac{546}{16.4}$$

4.4

$$\frac{83}{33} \quad \frac{73}{22} \quad \frac{542}{14.2} \quad \frac{523}{10} \quad \frac{502}{5} \quad \frac{493}{5} \quad \frac{502}{5} \quad \frac{52}{10} \quad \frac{534}{13.4} \quad \frac{58}{17} \quad \frac{73}{21} \quad \frac{80}{22}$$

512. + π - Elev.

981.39

17+25

76.4

+50

76.5

+25

76.6

18

76.6

+25

76.7

+50

76.8

+25

76.8

T.P.

6.33

983.63

4.09

997.30

19

76.9

+25

76.8

+50

76.9

+25

76.9

24

E

24

8

$$\frac{56}{163} \quad \frac{582}{131} \quad \frac{523}{10} \quad \frac{502}{5} \quad \frac{495}{5} \quad \frac{503}{5} \quad \frac{519}{10} \quad \frac{542}{146}$$

$$\frac{58}{33} \quad \frac{62}{28} \quad \frac{632}{21} \quad \frac{532}{116} \quad \frac{507}{10} \quad \frac{496}{5} \quad \frac{499}{5} \quad \frac{512}{10} \quad \frac{516}{146} \quad \frac{558}{19} \quad \frac{57}{23} \quad \frac{30}{32}$$

$$\frac{52}{164} \quad \frac{502}{10} \quad \frac{485}{5} \quad \frac{482}{5} \quad \frac{485}{5} \quad \frac{493}{10} \quad \frac{451}{148}$$

$$\frac{48}{33} \quad \frac{59}{24} \quad \frac{60}{21} \quad \frac{517}{159} \quad \frac{506}{10} \quad \frac{490}{5} \quad \frac{477}{5} \quad \frac{478}{5} \quad \frac{492}{10} \quad \frac{503}{152} \quad \frac{60}{20} \quad \frac{59}{24} \quad \frac{33}{32}$$

$$\frac{529}{16} \quad \frac{502}{10} \quad \frac{487}{5} \quad \frac{471}{5} \quad \frac{476}{5} \quad \frac{489}{10} \quad \frac{502}{147}$$

$$\frac{67}{33} \quad \frac{64}{27} \quad \frac{63}{22} \quad \frac{522}{159} \quad \frac{500}{10} \quad \frac{477}{5} \quad \frac{464}{5} \quad \frac{474}{5} \quad \frac{486}{10} \quad \frac{509}{157} \quad \frac{73}{24} \quad \frac{78}{33}$$

$$\frac{501}{165} \quad \frac{486}{10} \quad \frac{47}{5} \quad \frac{456}{5} \quad \frac{467}{5} \quad \frac{486}{10} \quad \frac{52}{151}$$

6.7

$$\frac{70}{33} \quad \frac{98}{27} \quad \frac{77}{18} \quad \frac{741}{144} \quad \frac{713}{10} \quad \frac{682}{5} \quad \frac{674}{5} \quad \frac{69}{5} \quad \frac{707}{10} \quad \frac{738}{145} \quad \frac{86}{19} \quad \frac{109}{27} \quad \frac{115}{33}$$

$$\frac{707}{168} \quad \frac{735}{13} \quad \frac{711}{10} \quad \frac{683}{5} \quad \frac{676}{5} \quad \frac{688}{5} \quad \frac{701}{10} \quad \frac{737}{14} \quad \frac{752}{16}$$

6.7

$$\frac{109}{33} \quad \frac{96}{24} \quad \frac{765}{159} \quad \frac{74}{139} \quad \frac{714}{10} \quad \frac{689}{5} \quad \frac{673}{5} \quad \frac{686}{5} \quad \frac{701}{10} \quad \frac{723}{13} \quad \frac{732}{168} \quad \frac{100}{25} \quad \frac{106}{28} \quad \frac{108}{33}$$

$$\frac{774}{163} \quad \frac{725}{133} \quad \frac{716}{10} \quad \frac{685}{5} \quad \frac{671}{5} \quad \frac{682}{5} \quad \frac{701}{10} \quad \frac{723}{134} \quad \frac{76}{166}$$

Sta.	+	π	-	Elev.
		983.63		
20				77.0
+25				77.3
+50				77.6
+75				77.9
21				78.1
+25				78.4
+50				78.7
+75				78.9
22				79.1
+25				79.6
+50				80.1
+75				80.6
B.M	4.50	986.89	1.24	987.39

LT

2

RT

9

6.6

$\frac{104}{33}$ $\frac{104}{28}$ $\frac{75}{18}$ $\frac{716}{139}$ $\frac{691}{10}$ $\frac{671}{5}$ $\frac{658}{5}$ $\frac{645}{5}$ $\frac{633}{10}$ $\frac{626}{13.7}$ $\frac{722}{17}$ $\frac{80}{22}$ $\frac{81}{26}$ $\frac{74}{33}$

$\frac{715}{15.8}$ $\frac{680}{13.1}$ $\frac{675}{10}$ $\frac{645}{5}$ $\frac{630}{5}$ $\frac{635}{5}$ $\frac{612}{10}$ $\frac{608}{13.4}$ $\frac{687}{15.8}$

$\frac{80}{33}$ $\frac{81}{25}$ $\frac{681}{17.4}$ $\frac{683}{12.1}$ $\frac{646}{10}$ $\frac{62}{5}$ $\frac{601}{5}$ $\frac{605}{5}$ $\frac{620}{10}$ $\frac{636}{13.7}$ $\frac{662}{17}$ $\frac{73}{22}$ $\frac{73}{27}$ $\frac{66}{33}$

$\frac{65}{17.4}$ $\frac{621}{12.7}$ $\frac{617}{10}$ $\frac{593}{5}$ $\frac{573}{5}$ $\frac{576}{5}$ $\frac{593}{10}$ $\frac{620}{14.1}$ $\frac{646}{17.3}$

$\frac{60}{33}$ $\frac{70}{25}$ $\frac{70}{21}$ $\frac{623}{17}$ $\frac{604}{13.7}$ $\frac{590}{10}$ $\frac{567}{5}$ $\frac{548}{5}$ $\frac{55}{5}$ $\frac{566}{10}$ $\frac{580}{13.5}$ $\frac{598}{18.1}$ $\frac{65}{25}$ $\frac{74}{33}$

$\frac{576}{16.4}$ $\frac{551}{17.8}$ $\frac{543}{10}$ $\frac{525}{5}$ $\frac{519}{5}$ $\frac{524}{5}$ $\frac{541}{10}$ $\frac{546}{13.4}$ $\frac{522}{15.9}$

$\frac{54}{33}$ $\frac{63}{26}$ $\frac{63}{23}$ $\frac{61}{20}$ $\frac{543}{17}$ $\frac{522}{14.1}$ $\frac{501}{10}$ $\frac{458}{5}$ $\frac{487}{5}$ $\frac{499}{5}$ $\frac{518}{10}$ $\frac{528}{14.3}$ $\frac{655}{17}$ $\frac{61}{23}$ $\frac{66}{28}$ $\frac{64}{33}$

$\frac{524}{16.3}$ $\frac{524}{13.4}$ $\frac{503}{10}$ $\frac{482}{5}$ $\frac{472}{5}$ $\frac{476}{5}$ $\frac{488}{10}$ $\frac{506}{15.4}$

$\frac{56}{33}$ $\frac{36}{30}$ $\frac{56}{22}$ $\frac{56}{19}$ $\frac{515}{16.8}$ $\frac{494}{13.9}$ $\frac{477}{10}$ $\frac{460}{5}$ $\frac{449}{5}$ $\frac{445}{5}$ $\frac{418}{10}$ $\frac{487}{14.8}$ $\frac{533}{18}$ $\frac{61}{23}$ $\frac{63}{27}$ $\frac{66}{33}$

$\frac{478}{16.2}$ $\frac{447}{13.1}$ $\frac{434}{10}$ $\frac{413}{5}$ $\frac{400}{5}$ $\frac{404}{5}$ $\frac{415}{10}$ $\frac{428}{13.3}$ $\frac{438}{15.1}$

$\frac{15}{33}$ $\frac{45}{23}$ $\frac{46}{20}$ $\frac{42}{16.1}$ $\frac{393}{14.2}$ $\frac{380}{10}$ $\frac{360}{5}$ $\frac{354}{5}$ $\frac{357}{5}$ $\frac{370}{10}$ $\frac{380}{13.2}$ $\frac{383}{15.8}$ $\frac{46}{21}$ $\frac{49}{27}$ $\frac{46}{33}$

$\frac{356}{16.7}$ $\frac{337}{17.6}$ $\frac{337}{10}$ $\frac{306}{5}$ $\frac{296}{5}$ $\frac{301}{5}$ $\frac{326}{10}$ $\frac{332}{14.4}$ $\frac{348}{16.1}$

Spike in 24" Oak 70' LT. Sta. 22+88

Sta.	+	π	-	Elev.
		✓ 986.89		✓ 81.2
23				✓ 81.5
+25				✓ 81.6
+50				✓ 81.8
+75				✓ 81.9
24				✓ 82.1
+25				✓ 82.0
+50				✓ 81.9
+75				✓ 81.9
25				✓ 82.1
BM.	2.93	✓ 986.97	2.85	✓ 984.04
+25				✓ 82.1
+50				✓ 82.2

Lt.

E

Rt.

10

5.7

31	6.9	70	6.35	6.18	600	5.77				6.03	6.28	6.9	6.8	5.3
33	81	19	15.7	13.6	10	5	5.66	5.72	5.92	13.4	16.4	20	25	33

60	5.84	5.77	5.54											
15.8	12.8	10	8	5.39	5.43	5.60	5.68	5.82						

5.3

2.7	6.2	63	5.91	5.71	5.65	5.39								
33	23	19	16.3	13.1	10	5	5.26	5.33	5.50	5.57	5.8	6.5	6.5	6.1

5.74	5.54	5.43	5.08											
12.4	14.6	10	5	5.06	5.15	5.44	5.37	5.52						

5.0

9.0	8.5	21	5.8	5.44	5.32	5.07								
33	28	24	17	13.9	10	5	4.96	5.00	5.17	5.23	5.5	7.3	9.3	100

5.64	5.42	5.23	4.86											
18.1	13.7	10	5	4.82	4.89	4.99	5.23	5.37						

4.9

9.1	7.6	5.25	5.32	5.22	4.9									
33	26	18.7	13.8	10	5	4.86	4.96	5.00	5.17	5.60	7.3	9.2	9.6	33

5.56	5.30	5.21	5.06											
18.7	13.7	10	5	4.95	4.86	5.01	5.25	5.48						

5.0

8.5	8.2	5.94	5.21	5.05	5.08									
33	27	19.7	14.3	10	5	4.96	4.98	5.12	5.20	5.48	7.2	8.9	9.2	33

No. Cor. of No. Conc. Pedestal of Radio Tower at
Cleveland, Ar & Co. Rd. 172-512.23184-100' Lt.

8.43	5.20	5.08	5.10	4.92	4.96	5.14	5.23	5.45						
16	14.8	10	5	4.92	4.96	5.14	5.23	5.45						

4.8

9.1	8.5	6.2	5.67	5.16	5.03	4.96								
33	27	21	17.1	13.3	10	5	4.80	4.93	4.97	4.96	5.18	6.5	6.5	7.3

Sta. + π - Elev.

986.97

25+75

82.4

26

82.7

+25

82.9

+33.9 Stone Mott.

82.8

82.80

+50

82.9

+75

83.3

27

83.7

T.P

8.90

991.70

4.17

987.80

+25

83.9

+50

84.1

+75

84.3

28

84.7

Lt.

E

Rt

11

$$\frac{5.5}{15.9} \quad \frac{5.2}{12.5} \quad \frac{5.08}{10} \quad \frac{4.81}{5} \quad \frac{4.57}{5} \quad \frac{4.49}{5} \quad \frac{4.59}{10} \quad \frac{4.76}{15.3} \quad \frac{4.9}{19.4}$$

4.3

$$\frac{.67}{33} \quad \frac{.61}{26} \quad \frac{.57}{24} \quad \frac{.532}{18} \quad \frac{.478}{10} \quad \frac{.412}{5} \quad \frac{.428}{5} \quad \frac{.420}{5} \quad \frac{.427}{10} \quad \frac{.4.55}{17.3} \quad \frac{.484}{20.6} \quad \frac{.451}{23} \quad \frac{.53}{33}$$

$$\frac{.47}{19} \quad \frac{.467}{15.2} \quad \frac{.446}{10} \quad \frac{.436}{5} \quad \frac{.411}{5} \quad \frac{.408}{5} \quad \frac{.406}{10} \quad \frac{.401}{17.5} \quad \frac{.403}{21}$$

4.2

$$\frac{.52}{50} \quad \frac{.49}{35} \quad \frac{.47}{26} \quad \frac{.457}{17.6} \quad \frac{.445}{10} \quad \frac{.431}{5} \quad \frac{.409}{5} \quad \frac{.399}{5} \quad \frac{.402}{10} \quad \frac{.403}{16.9} \quad \frac{.405}{22} \quad \frac{.404}{26} \quad \frac{.400}{50}$$

4.1

$$\frac{.55}{33} \quad \frac{.50}{30} \quad \frac{.482}{16.3} \quad \frac{.453}{10} \quad \frac{.425}{5} \quad \frac{.406}{5} \quad \frac{.399}{5} \quad \frac{.401}{10} \quad \frac{.420}{14.4} \quad \frac{.440}{23} \quad \frac{.452}{29} \quad \frac{.485}{33}$$

$$\frac{.49}{18} \quad \frac{.482}{15.9} \quad \frac{.449}{10} \quad \frac{.400}{5} \quad \frac{.372}{5} \quad \frac{.373}{5} \quad \frac{.386}{10} \quad \frac{.394}{12.7} \quad \frac{.415}{11.5} \quad \frac{.434}{20}$$

3.3

$$\frac{.87}{33} \quad \frac{.70}{26} \quad \frac{.52}{21} \quad \frac{.432}{14.5} \quad \frac{.410}{10} \quad \frac{.362}{5} \quad \frac{.334}{5} \quad \frac{.332}{5} \quad \frac{.341}{10} \quad \frac{.318}{14} \quad \frac{.359}{18.5} \quad \frac{.53}{22} \quad \frac{.6.9}{33}$$

Top of Stone Monument. Sta. 26+33.9

$$\frac{.883}{15.8} \quad \frac{.852}{10} \quad \frac{.812}{5} \quad \frac{.779}{5} \quad \frac{.773}{5} \quad \frac{.781}{10} \quad \frac{.803}{14.3} \quad \frac{.844}{18.5}$$

$$\frac{.137}{33} \quad \frac{.131}{31} \quad \frac{.954}{23} \quad \frac{.884}{20} \quad \frac{.828}{14.1} \quad \frac{.821}{10} \quad \frac{.794}{5} \quad \frac{.759}{5} \quad \frac{.759}{5} \quad \frac{.766}{10} \quad \frac{.773}{13.4} \quad \frac{.843}{19} \quad \frac{.110}{23} \quad \frac{.111}{30} \quad \frac{.99}{33}$$

$$\frac{.821}{16} \quad \frac{.796}{12.1} \quad \frac{.803}{10} \quad \frac{.770}{5} \quad \frac{.737}{5} \quad \frac{.735}{5} \quad \frac{.739}{10} \quad \frac{.751}{19.8} \quad \frac{.748}{17.8}$$

7.0

$$\frac{.137}{33} \quad \frac{.126}{29} \quad \frac{.70}{8} \quad \frac{.847}{17.7} \quad \frac{.769}{12.5} \quad \frac{.768}{10} \quad \frac{.730}{5} \quad \frac{.700}{5} \quad \frac{.675}{5} \quad \frac{.708}{10} \quad \frac{.713}{13.2} \quad \frac{.751}{15.1} \quad \frac{.100}{23} \quad \frac{.100}{27} \quad \frac{.400}{40.7}$$

Sta. + K - Elev.

991.70

28+25

85.2

+50

85.7

+75

86.2

29

86.6

+25

86.9

+50

87.2

+75

87.4

30

87.7

+25

88.0

B.M.

6.38

993.95

4.13

987.57

+50

88.4

+75

88.6

Lt

C

Rt

12

$$\frac{743}{11.2} \quad \frac{720}{10} \quad \frac{678}{5} \quad \frac{648}{5} \quad \frac{643}{5} \quad \frac{653}{10} \quad \frac{623}{14.4} \quad \frac{701}{19}$$

6.0

$$\frac{12.9}{33} \quad \frac{11.2}{29} \quad \frac{10.0}{24} \quad \frac{74}{12.5} \quad \frac{6.75}{13.4} \quad \frac{6.61}{10} \quad \frac{6.21}{5} \quad \frac{5.76}{5} \quad \frac{5.95}{5} \quad \frac{6.04}{10} \quad \frac{6.21}{14.4} \quad \frac{6.34}{18.7} \quad \frac{8.6}{23} \quad \frac{8.4}{28} \quad \frac{1.0}{43}$$

$$\frac{6.1}{16.6} \quad \frac{5.87}{12.6} \quad \frac{5.83}{10} \quad \frac{5.67}{5} \quad \frac{5.53}{5} \quad \frac{5.54}{5} \quad \frac{5.68}{10} \quad \frac{5.79}{12.8} \quad \frac{6.0}{18}$$

5.1

$$\frac{7.5}{33} \quad \frac{7.8}{27} \quad \frac{7.6}{22} \quad \frac{5.76}{12.7} \quad \frac{5.64}{13.5} \quad \frac{5.48}{10} \quad \frac{5.3}{5} \quad \frac{5.11}{5} \quad \frac{5.10}{5} \quad \frac{5.20}{10} \quad \frac{5.30}{14.2} \quad \frac{5.33}{19.8} \quad \frac{5.6}{23} \quad \frac{7.1}{25} \quad \frac{7.2}{26}$$

$$\frac{5.2}{21} \quad \frac{5.0}{33}$$

$$\frac{5.46}{16.5} \quad \frac{5.20}{13.2} \quad \frac{5.15}{10} \quad \frac{4.96}{5} \quad \frac{4.76}{5} \quad \frac{4.79}{5} \quad \frac{4.93}{10} \quad \frac{5.13}{14.2} \quad \frac{5.25}{18.5}$$

4.5

$$\frac{3.7}{36} \quad \frac{6.6}{28} \quad \frac{6.6}{22} \quad \frac{5.3}{18.2} \quad \frac{4.83}{12.9} \quad \frac{4.79}{10} \quad \frac{4.66}{5} \quad \frac{4.50}{5} \quad \frac{4.50}{5} \quad \frac{4.66}{10} \quad \frac{4.74}{14} \quad \frac{5.08}{17.7} \quad \frac{6.6}{23} \quad \frac{6.6}{28} \quad \frac{6.5}{30}$$

5.7
33

$$\frac{5.03}{19} \quad \frac{4.70}{11.7} \quad \frac{4.50}{10} \quad \frac{4.42}{5} \quad \frac{4.27}{5} \quad \frac{4.30}{5} \quad \frac{4.48}{10} \quad \frac{4.57}{13.8} \quad \frac{4.97}{16.8}$$

4.0

$$\frac{2.3}{37} \quad \frac{5.5}{28} \quad \frac{5.25}{22} \quad \frac{4.95}{19} \quad \frac{4.41}{15.2} \quad \frac{4.26}{10} \quad \frac{4.15}{5} \quad \frac{4.03}{5} \quad \frac{4.10}{5} \quad \frac{4.31}{10} \quad \frac{4.38}{14.2} \quad \frac{4.65}{18} \quad \frac{6.5}{24} \quad \frac{6.3}{29} \quad \frac{5.2}{33}$$

3.7

$$\frac{4.7}{20} \quad \frac{4.24}{16.5} \quad \frac{4.03}{13.2} \quad \frac{4.06}{10} \quad \frac{3.83}{5} \quad \frac{3.71}{5} \quad \frac{3.80}{5} \quad \frac{3.99}{10} \quad \frac{4.12}{13.9} \quad \frac{4.46}{18.3}$$

Spike in power pole 30' Rt. Sta 33+20

$$\frac{1.5}{40} \quad \frac{6.9}{29} \quad \frac{7.3}{24} \quad \frac{6.5}{20} \quad \frac{6.04}{11} \quad \frac{5.72}{10} \quad \frac{5.77}{5} \quad \frac{5.60}{5} \quad \frac{5.71}{5} \quad \frac{5.92}{10} \quad \frac{6.08}{14.5} \quad \frac{6.18}{14.6} \quad \frac{7.6}{23} \quad \frac{7.6}{26} \quad \frac{2.6}{35}$$

$$\frac{5.83}{16} \quad \frac{5.65}{13.2} \quad \frac{5.62}{10} \quad \frac{5.46}{5} \quad \frac{5.31}{5} \quad \frac{5.44}{5} \quad \frac{5.63}{10} \quad \frac{5.79}{12.7} \quad \frac{6.21}{18}$$

Sta. + π - Elev.

993.95

31 88.9 ✓

+25 89.1 ✓

+50 89.1 ✓

+75 89.1 ✓

32 89.1 ✓

+25 89.1 ✓

+50 89.1 ✓

+75 89.1 ✓

33 89.1 ✓

T.P. 6.45 994.02 ✓ 6.38 987.57 ✓

+25 89.0 ✓

+50 89.1 ✓

LT.

2

RT.

13

5.1

$\frac{28}{38} \frac{69}{28} \frac{71}{21} \frac{586}{177} \frac{551}{188} \frac{531}{10} \frac{519}{5} \frac{507}{5} \frac{517}{5} \frac{536}{10} \frac{551}{14.8} \frac{583}{19.1} \frac{73}{24} \frac{73}{21} \frac{63}{30} \frac{23}{39}$

$\frac{554}{15.7} \frac{521}{12.7} \frac{517}{10} \frac{502}{5} \frac{492}{5} \frac{497}{5} \frac{508}{10} \frac{537}{13.9} \frac{573}{12.9}$

4.9

$\frac{55}{34} \frac{73}{28} \frac{73}{21} \frac{567}{11.8} \frac{524}{12.7} \frac{524}{10} \frac{503}{5} \frac{488}{5} \frac{491}{5} \frac{511}{10} \frac{518}{13.7} \frac{558}{18.5} \frac{71}{23} \frac{73}{27} \frac{26}{39}$

$\frac{76}{21} \frac{56}{14.5} \frac{530}{14.4} \frac{517}{10} \frac{506}{5} \frac{492}{5} \frac{495}{5} \frac{501}{10} \frac{515}{13.7} \frac{541}{17}$

4.9

$\frac{90}{33} \frac{87}{30} \frac{76}{22} \frac{59}{17.8} \frac{555}{14} \frac{528}{10} \frac{508}{5} \frac{492}{5} \frac{492}{5} \frac{504}{10} \frac{512}{14.3} \frac{542}{17.4} \frac{77}{23} \frac{70}{29} \frac{33}{37}$

$\frac{595}{17.9} \frac{553}{13.9} \frac{540}{10} \frac{513}{5} \frac{493}{5} \frac{492}{5} \frac{499}{10} \frac{521}{12.3} \frac{546}{19}$

4.9

$\frac{78}{33} \frac{83}{27} \frac{592}{18.8} \frac{58}{15.6} \frac{559}{10} \frac{513}{5} \frac{492}{5} \frac{492}{5} \frac{496}{10} \frac{510}{13.7} \frac{53}{17.6} \frac{74}{22} \frac{74}{27} \frac{4.7}{35}$

$\frac{59}{17.4} \frac{572}{13.5} \frac{551}{10} \frac{513}{5} \frac{490}{5} \frac{490}{5} \frac{495}{10} \frac{512}{15.2} \frac{54}{16.3}$

4.9

$\frac{71}{33} \frac{91}{29} \frac{608}{19.7} \frac{574}{14.7} \frac{551}{10} \frac{515}{5} \frac{490}{5} \frac{494}{5} \frac{502}{10} \frac{515}{13.4} \frac{555}{17.1} \frac{74}{23} \frac{74}{28} \frac{4.8}{36}$

$\frac{62}{17.5} \frac{589}{14.3} \frac{559}{10} \frac{522}{5} \frac{495}{5} \frac{503}{5} \frac{512}{10} \frac{526}{13.4} \frac{550}{16.7}$



4.9

$\frac{110}{33} \frac{101}{30} \frac{62}{14.6} \frac{548}{13.4} \frac{537}{10} \frac{517}{5} \frac{488}{5} \frac{492}{5} \frac{501}{10} \frac{522}{13.6} \frac{545}{17} \frac{72}{24} \frac{72}{30} \frac{52}{35}$

Sta. + π - Elev.

1
994.02 ✓

33+75

✓
89.2 .

34

✓
89.2 .

+25

✓
89.1 .

+50

✓
89.1 .

+75

✓
89.1 .

35

✓
89.1 .

T.P.

2.27

✓
992.59

3.70

✓
990.32

+25

✓
89.1 .

+50

✓
89.0

+75

✓
88.7 .

36

✓
88.5 .

+25

✓
88.3 .

Lt.

E

Rt

14

$$\frac{5.68}{17} \quad \frac{5.31}{14.8} \quad \frac{5.19}{10} \quad \frac{4.96}{5} \quad \frac{4.82}{5} \quad \frac{4.93}{5} \quad \frac{5.06}{10} \quad \frac{5.23}{13} \quad \frac{5.53}{19.5}$$

4.8

$$\frac{8.6}{33} \quad \frac{8.4}{28} \quad \frac{9.3}{26} \quad \frac{9.0}{24} \quad \frac{5.61}{17.7} \quad \frac{5.33}{14.1} \quad \frac{5.06}{10} \quad \frac{4.81}{5} \quad \frac{4.81}{5} \quad \frac{4.86}{5} \quad \frac{5.03}{10} \quad \frac{5.22}{13.4} \quad \frac{5.64}{17.3} \quad \frac{7.2}{23} \quad \frac{7.3}{29} \quad \frac{4.4}{31}$$

$$\frac{5.33}{15.7} \quad \frac{5.05}{10} \quad \frac{4.97}{5} \quad \frac{4.81}{5} \quad \frac{4.88}{5} \quad \frac{5.00}{10} \quad \frac{5.2}{13.4} \quad \frac{5.3}{12.8}$$

4.9

$$\frac{4.9}{34} \quad \frac{8.0}{27} \quad \frac{8.0}{21} \quad \frac{5.76}{17.5} \quad \frac{5.24}{14.7} \quad \frac{5.12}{10} \quad \frac{5.01}{5} \quad \frac{4.90}{5} \quad \frac{4.93}{5} \quad \frac{5.08}{10} \quad \frac{5.02}{14.7} \quad \frac{7.1}{21} \quad \frac{6.7}{26} \quad \frac{4.3}{31} \quad \frac{4.4}{33}$$

$$\frac{5.6}{15.9} \quad \frac{5.32}{14} \quad \frac{5.16}{10} \quad \frac{5.06}{5} \quad \frac{4.92}{5} \quad \frac{4.94}{5} \quad \frac{5.08}{10} \quad \frac{5.23}{13} \quad \frac{5.63}{15.9}$$

4.9

$$\frac{4.7}{34} \quad \frac{7.8}{26} \quad \frac{7.9}{27} \quad \frac{5.65}{17.3} \quad \frac{5.15}{13.6} \quad \frac{5.13}{10} \quad \frac{5.01}{5} \quad \frac{4.91}{5} \quad \frac{4.94}{5} \quad \frac{5.08}{10} \quad \frac{5.19}{13.5} \quad \frac{5.61}{18.5} \quad \frac{6.85}{22} \quad \frac{6.8}{25} \quad \frac{4.4}{33}$$

$$\frac{4.0}{16} \quad \frac{3.86}{17.5} \quad \frac{3.74}{10} \quad \frac{3.58}{5} \quad \frac{3.48}{5} \quad \frac{3.55}{5} \quad \frac{3.70}{10} \quad \frac{3.85}{13.3} \quad \frac{4.17}{17.1}$$

3.6

$$\frac{2.2}{35} \quad \frac{5.9}{28} \quad \frac{6.2}{21} \quad \frac{4.6}{17.5} \quad \frac{3.98}{13.1} \quad \frac{3.77}{10} \quad \frac{3.67}{5} \quad \frac{3.57}{5} \quad \frac{3.67}{5} \quad \frac{3.85}{10} \quad \frac{4.05}{17.8} \quad \frac{4.5}{16.9} \quad \frac{4.9}{18} \quad \frac{6.9}{22} \quad \frac{5.7}{28} \quad \frac{2.4}{36}$$

$$\frac{4.14}{17.3} \quad \frac{4.05}{13.2} \quad \frac{4.02}{10} \quad \frac{3.92}{5} \quad \frac{3.81}{5} \quad \frac{3.92}{5} \quad \frac{4.05}{10} \quad \frac{4.1}{12.1} \quad \frac{4.66}{17.5}$$

4.1

$$\frac{3.5}{35} \quad \frac{6.6}{27} \quad \frac{6.8}{21} \quad \frac{4.8}{17.5} \quad \frac{4.44}{13.3} \quad \frac{4.23}{16} \quad \frac{4.17}{5} \quad \frac{4.06}{5} \quad \frac{4.10}{5} \quad \frac{4.25}{10} \quad \frac{4.76}{16.1} \quad \frac{6.3}{19} \quad \frac{6.3}{24} \quad \frac{4.0}{31} \quad \frac{3.9}{35}$$

4.3

$$\frac{4.0}{34} \quad \frac{7.0}{27} \quad \frac{7.0}{21} \quad \frac{5.4}{17.9} \quad \frac{4.62}{17.9} \quad \frac{4.49}{10} \quad \frac{4.36}{5} \quad \frac{4.25}{5} \quad \frac{4.26}{5} \quad \frac{4.38}{10} \quad \frac{4.69}{15.3} \quad \frac{6.9}{19} \quad \frac{6.5}{28} \quad \frac{4.5}{32} \quad \frac{4.2}{35}$$

Sta. + - Elev.

↓
991.59

361.50

88.1.

+75

87.7.

37

87.4.

B.M.

1.79

↓
991.69

1.79

↓
990.80

+25

87.0 ✓

+50

86.7 ✓

+75

86.2 ✓

38

85.6 ✓

+25

85.1 ✓

+50

84.5 ✓

+75

83.9 ✓

B.M.

8.70

↓
988.3 ✓

12.97

↓
979.6 ✓

L+

2

R+

4.5

$\frac{38}{35} \frac{69}{27} \frac{69}{21} \frac{522}{16.9} \frac{488}{14.1} \frac{482}{10} \frac{460}{5} \frac{4.53}{5} \frac{458}{5} \frac{4.74}{10} \frac{494}{13.6} \frac{5.12}{11.7} \frac{7.3}{19} \frac{7.5}{29} \frac{4.8}{35}$

$\frac{5.49}{17} \frac{5.15}{13.3} \frac{5.07}{10} \frac{5.93}{5} \frac{4.88}{5} \frac{4.95}{5} \frac{5.16}{10} \frac{5.23}{12.1} \frac{5.53}{16}$

5.2

$\frac{30}{37} \frac{72}{27} \frac{74}{22} \frac{589}{17} \frac{558}{13.4} \frac{547}{10} \frac{530}{5} \frac{5.22}{5} \frac{5.32}{5} \frac{5.52}{10} \frac{5.68}{12.7} \frac{5.82}{11.2} \frac{8.0}{19} \frac{8.2}{29} \frac{5.7}{33}$

Top of lower concrete step of dwelling, South
End. 100' Rt. Sta. 36+55

$\frac{6.42}{19} \frac{5.77}{12.6} \frac{5.79}{10} \frac{5.68}{5} \frac{5.61}{5} \frac{5.70}{5} \frac{5.89}{10} \frac{6.08}{12.7} \frac{6.22}{15.3}$

5.9

$\frac{1.7}{41} \frac{8.8}{26} \frac{8.1}{22} \frac{6.82}{17} \frac{6.6}{13.3} \frac{6.12}{10} \frac{6.02}{5} \frac{5.93}{5} \frac{6.02}{5} \frac{6.18}{10} \frac{6.43}{12.9} \frac{6.69}{11.7} \frac{8.76}{19} \frac{8.9}{28} \frac{6.7}{33}$

$\frac{6.85}{16.2} \frac{6.19}{14.1} \frac{6.56}{10} \frac{6.48}{5} \frac{6.41}{5} \frac{6.5}{5} \frac{6.69}{10} \frac{6.76}{14} \frac{6.98}{16.3}$

7.0

$\frac{2.5}{41} \frac{8.0}{27} \frac{8.0}{21} \frac{7.6}{17.6} \frac{7.16}{13.3} \frac{7.06}{10} \frac{6.87}{5} \frac{6.95}{5} \frac{7.04}{5} \frac{7.22}{10} \frac{7.38}{14.8} \frac{7.78}{17} \frac{9.6}{21} \frac{9.8}{30} \frac{6.8}{34}$

$\frac{7.98}{17} \frac{7.66}{13.4} \frac{7.55}{10} \frac{7.49}{5} \frac{7.45}{5} \frac{7.52}{5} \frac{7.65}{10} \frac{7.78}{13.7} \frac{7.81}{16.3}$

8.1

$\frac{2.7}{43} \frac{9.1}{30} \frac{9.9}{26} \frac{10.0}{21} \frac{8.54}{16} \frac{8.27}{14.8} \frac{8.19}{10} \frac{8.15}{5} \frac{8.07}{5} \frac{8.12}{5} \frac{8.32}{10} \frac{8.51}{12.7} \frac{9.04}{17} \frac{10.7}{21} \frac{10.4}{26} \frac{7.2}{34}$

$\frac{9.06}{17} \frac{8.98}{14.6} \frac{8.86}{10} \frac{8.77}{5} \frac{8.68}{5} \frac{8.71}{5} \frac{8.88}{10} \frac{9.06}{12.7} \frac{9.50}{16.7}$

Spike in power pole 30' Lt. Sta. 39+90

Sta. + π - Elev.

988.32

39

83.3

+25

82.5

+50

81.6

+75

80.7

40

79.9

B.M.

2.68

982.35

8.65

979.67

+25

79.1

+50

78.3

+75

77.6

41

76.8

+25

76.0

+50

75.2

T.P.

3.22

976.77

8.80

973.55

Lt.

E

Rt.

16

5.0

$\frac{705}{42}$	$\frac{67}{28}$	$\frac{70}{22}$	$\frac{56}{18.4}$	$\frac{525}{14.4}$	$\frac{520}{10}$	$\frac{506}{5}$	$\frac{501}{5}$	$\frac{508}{5}$	$\frac{529}{10}$	$\frac{548}{12.3}$	$\frac{60}{12.3}$	$\frac{73}{21}$	$\frac{70}{28}$	$\frac{32}{37}$
------------------	-----------------	-----------------	-------------------	--------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------	-------------------	-----------------	-----------------	-----------------

$\frac{621}{16.5}$	$\frac{595}{12.7}$	$\frac{585}{10}$	$\frac{586}{5}$	$\frac{580}{5}$	$\frac{589}{5}$	$\frac{614}{10}$	$\frac{63}{12.6}$	$\frac{663}{17}$
--------------------	--------------------	------------------	-----------------	-----------------	-----------------	------------------	-------------------	------------------

6.7

$\frac{0.1}{44}$	$\frac{83}{28}$	$\frac{86}{23}$	$\frac{705}{18}$	$\frac{685}{13.5}$	$\frac{681}{10}$	$\frac{678}{5}$	$\frac{672}{5}$	$\frac{678}{5}$	$\frac{698}{10}$	$\frac{705}{12.8}$	$\frac{74}{16.2}$	$\frac{88}{20}$	$\frac{88}{24}$	$\frac{88}{33}$
------------------	-----------------	-----------------	------------------	--------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------	-------------------	-----------------	-----------------	-----------------

$\frac{288}{19}$	$\frac{78}{13.3}$	$\frac{724}{10}$	$\frac{766}{5}$	$\frac{758}{5}$	$\frac{762}{5}$	$\frac{780}{10}$	$\frac{793}{12.4}$	$\frac{824}{13.1}$
------------------	-------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------	--------------------

8.4

$\frac{53}{38}$	$\frac{105}{26}$	$\frac{105}{24}$	$\frac{852}{18}$	$\frac{819}{13.6}$	$\frac{810}{10}$	$\frac{843}{5}$	$\frac{840}{5}$	$\frac{845}{5}$	$\frac{863}{10}$	$\frac{880}{12.5}$	$\frac{902}{16}$	$\frac{101}{21}$	$\frac{102}{25}$	$\frac{100}{27}$	$\frac{97}{33}$
-----------------	------------------	------------------	------------------	--------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------	------------------	------------------	------------------	------------------	-----------------

Top of lower conc. step of dwelling, South
end 80' Rt of Sta. 40+40

$\frac{377}{16.5}$	$\frac{35}{14.3}$	$\frac{342}{10}$	$\frac{331}{5}$	$\frac{327}{5}$	$\frac{233}{5}$	$\frac{349}{10}$	$\frac{361}{12.3}$	$\frac{331}{16.6}$
--------------------	-------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------	--------------------

4.1

$\frac{47}{33}$	$\frac{63}{27}$	$\frac{622}{21}$	$\frac{465}{16.5}$	$\frac{442}{12.9}$	$\frac{433}{10}$	$\frac{414}{5}$	$\frac{407}{5}$	$\frac{413}{5}$	$\frac{428}{10}$	$\frac{442}{12.4}$	$\frac{482}{16.6}$	$\frac{58}{20}$	$\frac{57}{27}$	$\frac{52}{30}$	$\frac{50}{33}$
-----------------	-----------------	------------------	--------------------	--------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------	--------------------	-----------------	-----------------	-----------------	-----------------

$\frac{551}{16.5}$	$\frac{506}{13.1}$	$\frac{508}{10}$	$\frac{489}{5}$	$\frac{483}{5}$	$\frac{492}{5}$	$\frac{514}{10}$	$\frac{548}{12.3}$	$\frac{551}{17}$
--------------------	--------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------	------------------

5.6

$\frac{85}{33}$	$\frac{81}{27}$	$\frac{79}{21}$	$\frac{628}{15.6}$	$\frac{607}{12.7}$	$\frac{589}{10}$	$\frac{566}{5}$	$\frac{557}{5}$	$\frac{565}{5}$	$\frac{576}{10}$	$\frac{573}{12.9}$	$\frac{562}{19}$	$\frac{57}{27}$	$\frac{63}{33}$
-----------------	-----------------	-----------------	--------------------	--------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------	------------------	-----------------	-----------------

$\frac{21}{17}$	$\frac{66}{13.3}$	$\frac{671}{10}$	$\frac{644}{5}$	$\frac{639}{5}$	$\frac{648}{5}$	$\frac{659}{10}$	$\frac{675}{11.9}$	$\frac{71}{17}$
-----------------	-------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------	-----------------

7.2

$\frac{110}{33}$	$\frac{98}{23}$	$\frac{80}{18}$	$\frac{714}{19.8}$	$\frac{718}{10}$	$\frac{730}{5}$	$\frac{716}{5}$	$\frac{727}{5}$	$\frac{712}{16}$	$\frac{775}{12.9}$	$\frac{80}{17}$	$\frac{84}{23}$	$\frac{110}{31}$	$\frac{113}{33}$
------------------	-----------------	-----------------	--------------------	------------------	-----------------	-----------------	-----------------	------------------	--------------------	-----------------	-----------------	------------------	------------------

Sta.	+	Σ	-	Elev.
		976.77		
+75				74.4
42				73.7
+25				73.0
+50				72.3
+75				71.6
43				70.9
		Begin pot hole on Lt.		
+25				70.2
B.M.	2.94	974.68	7.03	969.74
+50				69.6
+75				69.0
44				68.7
+25				68.3

Lt.

E

Rt.

17

$$\frac{322}{19} \frac{277}{147} \frac{283}{10} \frac{252}{5} \frac{242}{5} \frac{254}{5} \frac{278}{10} \frac{299}{133} \frac{316}{21}$$

3.1

$$\frac{80}{33} \frac{65}{26} \frac{429}{20} \frac{368}{14.5} \frac{365}{10} \frac{327}{5} \frac{312}{5} \frac{318}{5} \frac{346}{10} \frac{392}{14.3} \frac{44}{21} \frac{74}{30} \frac{82}{33}$$

$$\frac{494}{20} \frac{442}{14.7} \frac{436}{10} \frac{396}{5} \frac{382}{5} \frac{393}{5} \frac{419}{10} \frac{454}{13.7} \frac{53}{21}$$

4.5

$$\frac{104}{38} \frac{88}{33} \frac{574}{20} \frac{52}{14} \frac{51}{10} \frac{458}{5} \frac{445}{5} \frac{459}{5} \frac{489}{10} \frac{50}{17.8} \frac{59}{21} \frac{95}{31} \frac{115}{42}$$

$$\frac{64}{20} \frac{58}{14.3} \frac{565}{10} \frac{533}{5} \frac{518}{5} \frac{530}{5} \frac{560}{10} \frac{580}{13} \frac{66}{20}$$

5.9

$$\frac{122}{35} \frac{98}{28} \frac{74}{22} \frac{668}{12.9} \frac{659}{10} \frac{606}{5} \frac{592}{5} \frac{602}{5} \frac{625}{10} \frac{651}{13.2} \frac{712}{20} \frac{103}{30} \frac{126}{40}$$

$$\frac{755}{20} \frac{746}{14.4} \frac{718}{10} \frac{672}{5} \frac{655}{5} \frac{666}{5} \frac{698}{10} \frac{722}{13.5} \frac{74}{16.4} \frac{79}{20}$$

Spike in power pole 30' Lt. 516. 43+00

3.1

$$\frac{92}{37} \frac{81}{33} \frac{48}{27} \frac{43}{17} \frac{384}{13.8} \frac{371}{10} \frac{329}{5} \frac{311}{5} \frac{320}{5} \frac{344}{10} \frac{369}{14.2} \frac{44}{20} \frac{69}{29} \frac{78}{33}$$

$$\frac{50}{20} \frac{456}{17} \frac{421}{14.2} \frac{412}{10} \frac{382}{5} \frac{370}{5} \frac{375}{5} \frac{399}{10} \frac{413}{13.9} \frac{48}{21}$$

4.0

$$\frac{93}{37} \frac{81}{33} \frac{56}{27} \frac{477}{16.7} \frac{468}{13.1} \frac{448}{10} \frac{417}{5} \frac{403}{5} \frac{412}{5} \frac{438}{10} \frac{45}{13.9} \frac{51}{21} \frac{77}{28} \frac{86}{33}$$

$$\frac{577}{22} \frac{500}{15.5} \frac{477}{10} \frac{453}{5} \frac{436}{5} \frac{445}{5} \frac{468}{10} \frac{49}{13.4} \frac{55}{21}$$

Sta. + π - Elev.

977.68

44+50

68.1

+75

68.1

45

68.1

+25

68.2

+50

68.2

T.P.

5.72

973.77

4.63

968.05

+75

68.4

46

68.4

(standing water)

+25

68.5

+50

End of pot hole on Lt. 68.7

+75

68.9

47

69.0

B.M.

5.16

977.07

1.86

971.91

L7

E

R7

4.6

$$\begin{array}{r} 92 \\ 38 \end{array} \quad \begin{array}{r} 86 \\ 38 \end{array} \quad \begin{array}{r} 21 \\ 27 \end{array} \quad \begin{array}{r} 572 \\ 21 \end{array} \quad \begin{array}{r} 527 \\ 148 \end{array} \quad \begin{array}{r} 584 \\ 10 \end{array} \quad \begin{array}{r} 475 \\ 5 \end{array} \quad \begin{array}{r} 456 \\ 10 \end{array} \quad \begin{array}{r} 462 \\ 10 \end{array} \quad \begin{array}{r} 483 \\ 10 \end{array} \quad \begin{array}{r} 512 \\ 132 \end{array} \quad \begin{array}{r} 537 \\ 173 \end{array} \quad \begin{array}{r} 58 \\ 22 \end{array} \quad \begin{array}{r} 82 \\ 28 \end{array} \quad \begin{array}{r} 93 \\ 33 \end{array}$$

$$\begin{array}{r} 62 \\ 22 \end{array} \quad \begin{array}{r} 543 \\ 159 \end{array} \quad \begin{array}{r} 514 \\ 10 \end{array} \quad \begin{array}{r} 480 \\ 5 \end{array} \quad \begin{array}{r} 461 \\ 5 \end{array} \quad \begin{array}{r} 470 \\ 5 \end{array} \quad \begin{array}{r} 495 \\ 10 \end{array} \quad \begin{array}{r} 52 \\ 136 \end{array} \quad \begin{array}{r} 58 \\ 21 \end{array}$$

4.6

$$\begin{array}{r} 92 \\ 34 \end{array} \quad \begin{array}{r} 29 \\ 28 \end{array} \quad \begin{array}{r} 535 \\ 22 \end{array} \quad \begin{array}{r} 531 \\ 146 \end{array} \quad \begin{array}{r} 520 \\ 10 \end{array} \quad \begin{array}{r} 477 \\ 5 \end{array} \quad \begin{array}{r} 456 \\ 5 \end{array} \quad \begin{array}{r} 466 \\ 5 \end{array} \quad \begin{array}{r} 490 \\ 10 \end{array} \quad \begin{array}{r} 517 \\ 147 \end{array} \quad \begin{array}{r} 527 \\ 22 \end{array} \quad \begin{array}{r} 75 \\ 27 \end{array} \quad \begin{array}{r} 85 \\ 33 \end{array}$$

$$\begin{array}{r} 61 \\ 22 \end{array} \quad \begin{array}{r} 539 \\ 143 \end{array} \quad \begin{array}{r} 506 \\ 10 \end{array} \quad \begin{array}{r} 466 \\ 5 \end{array} \quad \begin{array}{r} 452 \\ 5 \end{array} \quad \begin{array}{r} 476 \\ 5 \end{array} \quad \begin{array}{r} 488 \\ 10 \end{array} \quad \begin{array}{r} 521 \\ 152 \end{array} \quad \begin{array}{r} 56 \\ 22 \end{array}$$

4.5

$$\begin{array}{r} 93 \\ 34 \end{array} \quad \begin{array}{r} 91 \\ 31 \end{array} \quad \begin{array}{r} 59 \\ 21 \end{array} \quad \begin{array}{r} 513 \\ 146 \end{array} \quad \begin{array}{r} 494 \\ 10 \end{array} \quad \begin{array}{r} 46 \\ 5 \end{array} \quad \begin{array}{r} 449 \\ 5 \end{array} \quad \begin{array}{r} 465 \\ 5 \end{array} \quad \begin{array}{r} 480 \\ 10 \end{array} \quad \begin{array}{r} 51 \\ 158 \end{array} \quad \begin{array}{r} 57 \\ 22 \end{array} \quad \begin{array}{r} 80 \\ 31 \end{array} \quad \begin{array}{r} 84 \\ 33 \end{array}$$

$$\begin{array}{r} 71 \\ 21 \end{array} \quad \begin{array}{r} 662 \\ 17 \end{array} \quad \begin{array}{r} 645 \\ 138 \end{array} \quad \begin{array}{r} 64 \\ 10 \end{array} \quad \begin{array}{r} 572 \\ 5 \end{array} \quad \begin{array}{r} 544 \\ 5 \end{array} \quad \begin{array}{r} 553 \\ 5 \end{array} \quad \begin{array}{r} 572 \\ 10 \end{array} \quad \begin{array}{r} 59 \\ 125 \end{array} \quad \begin{array}{r} 621 \\ 178 \end{array} \quad \begin{array}{r} 68 \\ 22 \end{array}$$

5.4

$$\begin{array}{r} 110 \\ 33 \end{array} \quad \begin{array}{r} 103 \\ 20 \end{array} \quad \begin{array}{r} 73 \\ 23 \end{array} \quad \begin{array}{r} 66 \\ 16.9 \end{array} \quad \begin{array}{r} 618 \\ 17.9 \end{array} \quad \begin{array}{r} 588 \\ 10 \end{array} \quad \begin{array}{r} 553 \\ 5 \end{array} \quad \begin{array}{r} 542 \\ 5 \end{array} \quad \begin{array}{r} 547 \\ 5 \end{array} \quad \begin{array}{r} 565 \\ 10 \end{array} \quad \begin{array}{r} 613 \\ 14.9 \end{array} \quad \begin{array}{r} 604 \\ 19 \end{array} \quad \begin{array}{r} 67 \\ 24 \end{array} \quad \begin{array}{r} 76 \\ 28 \end{array} \quad \begin{array}{r} 77 \\ 33 \end{array}$$

$$\begin{array}{r} 627 \\ 194 \end{array} \quad \begin{array}{r} 590 \\ 128 \end{array} \quad \begin{array}{r} 561 \\ 10 \end{array} \quad \begin{array}{r} 547 \\ 5 \end{array} \quad \begin{array}{r} 527 \\ 5 \end{array} \quad \begin{array}{r} 525 \\ 5 \end{array} \quad \begin{array}{r} 547 \\ 10 \end{array} \quad \begin{array}{r} 568 \\ 138 \end{array} \quad \begin{array}{r} 608 \\ 19 \end{array}$$

5.1

$$\begin{array}{r} 93 \\ 33 \end{array} \quad \begin{array}{r} 93 \\ 29 \end{array} \quad \begin{array}{r} 644 \\ 21 \end{array} \quad \begin{array}{r} 60 \\ 172 \end{array} \quad \begin{array}{r} 573 \\ 126 \end{array} \quad \begin{array}{r} 553 \\ 10 \end{array} \quad \begin{array}{r} 522 \\ 5 \end{array} \quad \begin{array}{r} 508 \\ 5 \end{array} \quad \begin{array}{r} 514 \\ 5 \end{array} \quad \begin{array}{r} 538 \\ 10 \end{array} \quad \begin{array}{r} 561 \\ 137 \end{array} \quad \begin{array}{r} 602 \\ 19 \end{array} \quad \begin{array}{r} 65 \\ 22 \end{array} \quad \begin{array}{r} 64 \\ 26 \end{array} \quad \begin{array}{r} 606 \\ 303 \end{array}$$

$$\begin{array}{r} 576 \\ 17 \end{array} \quad \begin{array}{r} 553 \\ 14 \end{array} \quad \begin{array}{r} 535 \\ 10 \end{array} \quad \begin{array}{r} 504 \\ 5 \end{array} \quad \begin{array}{r} 492 \\ 5 \end{array} \quad \begin{array}{r} 502 \\ 5 \end{array} \quad \begin{array}{r} 547 \\ 10 \end{array} \quad \begin{array}{r} 548 \\ 133 \end{array} \quad \begin{array}{r} 578 \\ 153 \end{array}$$

4.8

$$\begin{array}{r} 51 \\ 33 \end{array} \quad \begin{array}{r} 85 \\ 27 \end{array} \quad \begin{array}{r} 82 \\ 23 \end{array} \quad \begin{array}{r} 576 \\ 16 \end{array} \quad \begin{array}{r} 519 \\ 132 \end{array} \quad \begin{array}{r} 517 \\ 10 \end{array} \quad \begin{array}{r} 489 \\ 5 \end{array} \quad \begin{array}{r} 478 \\ 5 \end{array} \quad \begin{array}{r} 489 \\ 5 \end{array} \quad \begin{array}{r} 515 \\ 10 \end{array} \quad \begin{array}{r} 540 \\ 133 \end{array} \quad \begin{array}{r} 575 \\ 19 \end{array} \quad \begin{array}{r} 63 \\ 22 \end{array} \quad \begin{array}{r} 61 \\ 33 \end{array}$$

Spiko in 10" Oak 30' at 315. 49+68

Sta.	+	π	-	Elev.
		1. 977.07		1
47+25				69.1
+50				1 69.3
+75				1 69.5
48				1 69.7
+25				1 69.9
+50				1 70.2
+75				1 70.5
49				1 70.8
+25				1 71.2
+50				1 71.5
+75				1 71.8
50				1 72.1

L+

E

E+

19

$$\begin{array}{cccccccccccc} 8.68 & 8.50 & 8.27 & 8.04 & 8.00 & 8.12 & 8.40 & 8.18 & 8.85 & 9.0 \\ \hline 16.1 & 17.8 & 10 & 5 & 5 & 5 & 10 & 13.9 & 19 & 27 \end{array}$$

7.8

$$\begin{array}{cccccccccccccccc} 7.3 & 11.1 & 108 & 86 & 8.27 & 8.07 & 7.92 & 7.82 & 7.73 & 8.22 & 8.62 & 8.62 & 92 & 110 & 110 \\ \hline 36 & 27 & 22 & 17 & 13.2 & 10 & 5 & 5 & 5 & 10 & 13.7 & 12.6 & 24 & 30 & 33 \end{array}$$

$$\begin{array}{cccccccc} 8.55 & 8.08 & 7.92 & 7.64 & 7.58 & 7.76 & 8.03 & 8.23 & 8.9 \\ \hline 17.4 & 13.2 & 10 & 5 & 5 & 5 & 10 & 13.1 & 20 \end{array}$$

7.4

$$\begin{array}{cccccccccccccccc} 8.6 & 108 & 105 & 82 & 7.9 & 7.7 & 7.45 & 7.36 & 7.53 & 7.85 & 8.15 & 8.68 & 110 & 128 \\ \hline 33 & 27 & 22 & 17 & 12.7 & 10 & 5 & 5 & 5 & 10 & 13.8 & 19 & 21 & 33 \end{array}$$

$$\begin{array}{cccccccc} 7.95 & 7.61 & 7.50 & 7.27 & 7.17 & 7.3 & 7.73 & 7.95 & 8.34 \\ \hline 16.4 & 12.1 & 10 & 5 & 5 & 5 & 10 & 13.7 & 19 \end{array}$$

6.9

$$\begin{array}{cccccccccccccccc} 7.1 & 7.7 & 7.9 & 7.78 & 7.34 & 7.21 & 7.02 & 6.94 & 7.08 & 7.53 & 7.6 & 8.22 & 138 & 138 \\ \hline 35 & 29 & 23 & 17 & 13.1 & 5 & 5 & 5 & 5 & 10 & 13.2 & 18 & 21 & 33 \end{array}$$

$$\begin{array}{cccccccc} 7.4 & 7.00 & 6.92 & 6.73 & 6.64 & 6.78 & 7.20 & 7.20 & 7.85 \\ \hline 17 & 12.7 & 10 & 5 & 5 & 5 & 10 & 12.2 & 18 \end{array}$$

6.3

$$\begin{array}{cccccccccccccccc} 3.0 & 8.7 & 8.5 & 7.0 & 6.7 & 6.6 & 6.43 & 6.31 & 6.4 & 6.68 & 6.88 & 7.25 & 8.9 & 10.7 & 9.3 \\ \hline 39 & 27 & 22 & 17 & 13.2 & 10 & 5 & 5 & 5 & 10 & 13.4 & 17 & 22 & 27 & 33 \end{array}$$

$$\begin{array}{cccccccc} 6.55 & 6.35 & 6.16 & 6.02 & 5.93 & 6.04 & 6.39 & 6.50 & 7.1 \\ \hline 17 & 13.1 & 10 & 5 & 5 & 5 & 10 & 12.6 & 17 \end{array}$$

5.6

$$\begin{array}{cccccccccccccccc} 3.0 & 8.0 & 8.2 & 6.26 & 5.97 & 5.80 & 5.63 & 5.57 & 5.71 & 6.04 & 6.14 & 6.66 & 8.5 & 8.6 & 6.2 \\ \hline 39 & 28 & 22 & 16.8 & 13.3 & 10 & 5 & 5 & 5 & 10 & 12.8 & 17 & 21 & 27 & 33 \end{array}$$

$$\begin{array}{cccccccc} 5.75 & 5.64 & 5.53 & 5.34 & 5.20 & 5.40 & 5.7 & 6.0 & 6.42 \\ \hline 16.2 & 14.1 & 10 & 5 & 5 & 5 & 10 & 13.9 & 17 \end{array}$$

5.0

$$\begin{array}{cccccccccccccccc} 6.2 & 8.1 & 8.2 & 5.88 & 5.38 & 5.36 & 5.15 & 5.03 & 5.08 & 5.31 & 5.58 & 6.07 & 6.7 & 7.2 & 4.0 \\ \hline 33 & 28 & 22 & 16.7 & 13.4 & 10 & 5 & 5 & 5 & 10 & 13.7 & 18 & 27 & 28 & 35 \end{array}$$

5 1/2 + K - Elev.

977.07

50+25

72.4

+50

72.6

+75

72.7

51

72.8

+25

72.8

+50

72.9

+75

73.0

52

73.3

+25

73.4

+50

73.4

+59.08 Stone Mon.

73.27

B.M.

2.21

975.50

3.78

973.29

L+

E

R+

20

$$\begin{array}{r} 5.63 \\ 15.3 \end{array} \quad \begin{array}{r} 5.28 \\ 12.4 \end{array} \quad \begin{array}{r} 5.13 \\ 10 \end{array} \quad \begin{array}{r} 4.91 \\ 5 \end{array} \quad \begin{array}{r} 4.74 \\ 5 \end{array} \quad \begin{array}{r} 4.82 \\ 5 \end{array} \quad \begin{array}{r} 5.07 \\ 10 \end{array} \quad \begin{array}{r} 5.27 \\ 13.6 \end{array} \quad \begin{array}{r} 5.73 \\ 18 \end{array}$$

4.5

$$\begin{array}{r} 70 \\ 33 \end{array} \quad \begin{array}{r} 73 \\ 29 \end{array} \quad \begin{array}{r} 80 \\ 26 \end{array} \quad \begin{array}{r} 77 \\ 20 \end{array} \quad \begin{array}{r} 5.46 \\ 15.6 \end{array} \quad \begin{array}{r} 4.96 \\ 12 \end{array} \quad \begin{array}{r} 4.87 \\ 10 \end{array} \quad \begin{array}{r} 4.63 \\ 5 \end{array} \quad \begin{array}{r} 4.52 \\ 5 \end{array} \quad \begin{array}{r} 4.59 \\ 5 \end{array} \quad \begin{array}{r} 4.82 \\ 10 \end{array} \quad \begin{array}{r} 5.24 \\ 14.4 \end{array} \quad \begin{array}{r} 5.66 \\ 18 \end{array} \quad \begin{array}{r} 20 \\ 21 \end{array} \quad \begin{array}{r} 6.7 \\ 27 \end{array} \quad \begin{array}{r} 27 \\ 36 \end{array}$$

$$\begin{array}{r} 5.02 \\ 15 \end{array} \quad \begin{array}{r} 4.77 \\ 12.2 \end{array} \quad \begin{array}{r} 4.61 \\ 10 \end{array} \quad \begin{array}{r} 4.50 \\ 5 \end{array} \quad \begin{array}{r} 4.37 \\ 5 \end{array} \quad \begin{array}{r} 4.44 \\ 5 \end{array} \quad \begin{array}{r} 4.67 \\ 10 \end{array} \quad \begin{array}{r} 5.05 \\ 14.3 \end{array} \quad \begin{array}{r} 5.59 \\ 18 \end{array}$$

4.3

$$\begin{array}{r} 70 \\ 33 \end{array} \quad \begin{array}{r} 75 \\ 27 \end{array} \quad \begin{array}{r} 74 \\ 22 \end{array} \quad \begin{array}{r} 5.08 \\ 15.9 \end{array} \quad \begin{array}{r} 4.7 \\ 12.7 \end{array} \quad \begin{array}{r} 4.56 \\ 10 \end{array} \quad \begin{array}{r} 4.42 \\ 5 \end{array} \quad \begin{array}{r} 4.31 \\ 5 \end{array} \quad \begin{array}{r} 4.45 \\ 5 \end{array} \quad \begin{array}{r} 4.70 \\ 10 \end{array} \quad \begin{array}{r} 5.07 \\ 14.4 \end{array} \quad \begin{array}{r} 5.44 \\ 18 \end{array} \quad \begin{array}{r} 6.6 \\ 23 \end{array} \quad \begin{array}{r} 6.2 \\ 28 \end{array} \quad \begin{array}{r} 3.2 \\ 35 \end{array}$$

$$\begin{array}{r} 4.98 \\ 15.2 \end{array} \quad \begin{array}{r} 4.62 \\ 12.4 \end{array} \quad \begin{array}{r} 4.52 \\ 10 \end{array} \quad \begin{array}{r} 4.33 \\ 5 \end{array} \quad \begin{array}{r} 4.25 \\ 5 \end{array} \quad \begin{array}{r} 4.32 \\ 5 \end{array} \quad \begin{array}{r} 4.55 \\ 10 \end{array} \quad \begin{array}{r} 4.96 \\ 14.4 \end{array} \quad \begin{array}{r} 5.51 \\ 18 \end{array}$$

4.2

$$\begin{array}{r} 73 \\ 33 \end{array} \quad \begin{array}{r} 71 \\ 25 \end{array} \quad \begin{array}{r} 74 \\ 27 \end{array} \quad \begin{array}{r} 72 \\ 22 \end{array} \quad \begin{array}{r} 5.02 \\ 15.7 \end{array} \quad \begin{array}{r} 4.61 \\ 12.8 \end{array} \quad \begin{array}{r} 4.51 \\ 10 \end{array} \quad \begin{array}{r} 4.27 \\ 5 \end{array} \quad \begin{array}{r} 4.23 \\ 5 \end{array} \quad \begin{array}{r} 4.33 \\ 5 \end{array} \quad \begin{array}{r} 4.49 \\ 10 \end{array} \quad \begin{array}{r} 4.76 \\ 14.4 \end{array} \quad \begin{array}{r} 5.21 \\ 18 \end{array} \quad \begin{array}{r} 6.5 \\ 22 \end{array} \quad \begin{array}{r} 6.6 \\ 28 \end{array} \quad \begin{array}{r} 4.7 \\ 33 \end{array}$$

$$\begin{array}{r} 4.8 \\ 15.9 \end{array} \quad \begin{array}{r} 4.58 \\ 13.3 \end{array} \quad \begin{array}{r} 4.42 \\ 10 \end{array} \quad \begin{array}{r} 4.18 \\ 5 \end{array} \quad \begin{array}{r} 4.10 \\ 5 \end{array} \quad \begin{array}{r} 4.16 \\ 5 \end{array} \quad \begin{array}{r} 4.38 \\ 10 \end{array} \quad \begin{array}{r} 4.73 \\ 13.6 \end{array} \quad \begin{array}{r} 4.96 \\ 16 \end{array} \quad \begin{array}{r} 5.48 \\ 19 \end{array}$$

6.6

$$\begin{array}{r} 33 \\ 33 \end{array} \quad \begin{array}{r} 63 \\ 29 \end{array} \quad \begin{array}{r} 66 \\ 27 \end{array} \quad \begin{array}{r} 6.37 \\ 23 \end{array} \quad \begin{array}{r} 4.5 \\ 19 \end{array} \quad \begin{array}{r} 4.3 \\ 13.4 \end{array} \quad \begin{array}{r} 4.18 \\ 10 \end{array} \quad \begin{array}{r} 4.0 \\ 5 \end{array} \quad \begin{array}{r} 3.83 \\ 5 \end{array} \quad \begin{array}{r} 3.86 \\ 5 \end{array} \quad \begin{array}{r} 4.03 \\ 10 \end{array} \quad \begin{array}{r} 4.27 \\ 14.9 \end{array} \quad \begin{array}{r} 4.67 \\ 19 \end{array} \quad \begin{array}{r} 5.03 \\ 21 \end{array} \quad \begin{array}{r} 4.9 \\ 27 \end{array} \quad \begin{array}{r} 3.2 \\ 33 \end{array}$$

$$\begin{array}{r} 4.06 \\ 17 \end{array} \quad \begin{array}{r} 4.15 \\ 14.1 \end{array} \quad \begin{array}{r} 3.96 \\ 10 \end{array} \quad \begin{array}{r} 3.96 \\ 5 \end{array} \quad \begin{array}{r} 3.66 \\ 5 \end{array} \quad \begin{array}{r} 3.68 \\ 5 \end{array} \quad \begin{array}{r} 3.82 \\ 10 \end{array} \quad \begin{array}{r} 4.09 \\ 14.9 \end{array} \quad \begin{array}{r} 4.39 \\ 19 \end{array}$$

3.7

$$\begin{array}{r} 3.91 \\ 33 \end{array} \quad \begin{array}{r} 3.81 \\ 24 \end{array} \quad \begin{array}{r} 3.81 \\ 10.4 \end{array} \quad \begin{array}{r} 3.71 \\ 10 \end{array} \quad \begin{array}{r} 3.68 \\ 5 \end{array} \quad \begin{array}{r} 3.65 \\ 5 \end{array} \quad \begin{array}{r} 3.72 \\ 5 \end{array} \quad \begin{array}{r} 3.73 \\ 10 \end{array} \quad \begin{array}{r} 4.13 \\ 15.6 \end{array} \quad \begin{array}{r} 4.36 \\ 21 \end{array} \quad \begin{array}{r} 4.66 \\ 25 \end{array} \quad \begin{array}{r} 4.95 \\ 33 \end{array}$$

3.8

$$\begin{array}{r} 3.48 \\ 10 \end{array} \quad \begin{array}{r} 3.77 \\ 31 \end{array} \quad \begin{array}{r} 3.80 \\ 24 \end{array} \quad \begin{array}{r} 3.75 \\ 17 \end{array} \quad \begin{array}{r} 3.7 \\ 10 \end{array} \quad \begin{array}{r} 3.72 \\ 5 \end{array} \quad \begin{array}{r} 3.80 \\ 5 \end{array} \quad \begin{array}{r} 3.79 \\ 5 \end{array} \quad \begin{array}{r} 3.93 \\ 10 \end{array} \quad \begin{array}{r} 4.19 \\ 18 \end{array} \quad \begin{array}{r} 4.42 \\ 24 \end{array} \quad \begin{array}{r} 4.62 \\ 27 \end{array} \quad \begin{array}{r} 4.98 \\ 30 \end{array} \quad \begin{array}{r} 5.43 \\ 50 \end{array}$$

Top of Mon. Ctk. Cleveland & "B" Sta. 52+59.08

Sta + K - Elev.

975.50

52+75

73.0

53

72.5

+25

71.9

+50

71.6

+75

71.3

54

71.3

+25

70.6

+50

70.1

+75

69.4

55

68.9

+25

68.4

+50

68.0

17

18

19

21

$\frac{296}{20}$ $\frac{271}{15.4}$ $\frac{252}{10}$ $\frac{247}{5}$ $\frac{241}{5}$ $\frac{25}{5}$ $\frac{268}{10}$ $\frac{284}{15}$ $\frac{300}{21}$

$\frac{66}{33}$ $\frac{44}{26}$ $\frac{335}{20}$ $\frac{358}{14.4}$ $\frac{331}{10}$ $\frac{311}{5}$ $\frac{302}{5}$ $\frac{306}{5}$ $\frac{322}{10}$ $\frac{348}{16.5}$ $\frac{378}{21}$ $\frac{426}{27}$ $\frac{458}{31}$ $\frac{36}{33}$

$\frac{429}{19}$ $\frac{387}{12.9}$ $\frac{377}{10}$ $\frac{364}{5}$ $\frac{355}{5}$ $\frac{357}{5}$ $\frac{367}{10}$ $\frac{389}{15.1}$ $\frac{422}{21}$

$\frac{71}{33}$ $\frac{68}{22}$ $\frac{482}{18}$ $\frac{444}{14.5}$ $\frac{416}{10}$ $\frac{397}{5}$ $\frac{391}{5}$ $\frac{384}{5}$ $\frac{404}{10}$ $\frac{421}{14.4}$ $\frac{449}{19}$ $\frac{579}{23}$ $\frac{58}{28}$ $\frac{38}{36}$

$\frac{509}{18}$ $\frac{469}{13.7}$ $\frac{451}{10}$ $\frac{425}{5}$ $\frac{416}{5}$ $\frac{416}{5}$ $\frac{451}{10}$ $\frac{472}{14}$ $\frac{506}{19}$

$\frac{36}{35}$ $\frac{68}{26}$ $\frac{69}{22}$ $\frac{533}{18}$ $\frac{510}{14.2}$ $\frac{493}{10}$ $\frac{462}{5}$ $\frac{457}{5}$ $\frac{452}{5}$ $\frac{481}{10}$ $\frac{499}{13.4}$ $\frac{548}{19}$ $\frac{67}{23}$ $\frac{65}{28}$ $\frac{32}{36}$

$\frac{57}{18}$ $\frac{531}{14}$ $\frac{518}{10}$ $\frac{495}{5}$ $\frac{489}{5}$ $\frac{493}{5}$ $\frac{508}{10}$ $\frac{541}{13.7}$ $\frac{59}{18}$

$\frac{60}{38}$ $\frac{67}{27}$ $\frac{72}{25}$ $\frac{74}{22}$ $\frac{63}{19}$ $\frac{595}{14.3}$ $\frac{569}{10}$ $\frac{548}{5}$ $\frac{542}{5}$ $\frac{551}{5}$ $\frac{573}{10}$ $\frac{595}{13.2}$ $\frac{645}{18}$ $\frac{85}{22}$ $\frac{84}{29}$ $\frac{80}{33}$

$\frac{69}{18}$ $\frac{649}{13.8}$ $\frac{63}{10}$ $\frac{612}{5}$ $\frac{606}{5}$ $\frac{610}{5}$ $\frac{625}{10}$ $\frac{66}{13.7}$ $\frac{71}{18}$

$\frac{66}{35}$ $\frac{91}{28}$ $\frac{94}{23}$ $\frac{76}{19}$ $\frac{717}{14.3}$ $\frac{694}{10}$ $\frac{670}{5}$ $\frac{659}{5}$ $\frac{653}{5}$ $\frac{68}{10}$ $\frac{718}{14}$ $\frac{76}{18}$ $\frac{108}{25}$ $\frac{116}{33}$

$\frac{808}{17}$ $\frac{76}{13.2}$ $\frac{738}{10}$ $\frac{724}{5}$ $\frac{706}{5}$ $\frac{712}{5}$ $\frac{739}{10}$ $\frac{776}{13.8}$ $\frac{81}{17}$

$\frac{108}{43}$ $\frac{124}{27}$ $\frac{122}{24}$ $\frac{867}{19}$ $\frac{928}{14.4}$ $\frac{794}{10}$ $\frac{768}{5}$ $\frac{753}{5}$ $\frac{755}{5}$ $\frac{773}{10}$ $\frac{81}{13.9}$ $\frac{84}{17}$ $\frac{112}{22}$ $\frac{113}{27}$ $\frac{101}{34}$

Sta. + K - Elev.

975.50

↓
67.6

55+75

↓
67.3

56

B.M. 6.03 970.59 10.94 964.56

+25 67.0

+50 66.7

+75 66.6

57 66.5

+25 66.5

+50 66.3

+75 66.1

58 66.0

+25 65.9

14

2

27

22

$\frac{902}{17}$ $\frac{810}{132}$ $\frac{835}{10}$ $\frac{800}{5}$ $\frac{787}{5}$ $\frac{788}{5}$ $\frac{806}{10}$ $\frac{842}{134}$ $\frac{876}{17}$

130

8.2

$\frac{38148}{31}$ $\frac{154}{29}$ $\frac{130}{26}$ $\frac{934}{18}$ $\frac{884}{139}$ $\frac{846}{10}$ $\frac{832}{5}$ $\frac{815}{5}$ $\frac{823}{5}$ $\frac{844}{10}$ $\frac{865}{136}$ $\frac{892}{17}$ $\frac{11.3}{22}$ $\frac{11.2}{26}$ $\frac{76}{36}$

Spike in power pole 30' 21 52 56 + 06

$\frac{46}{17}$ $\frac{42}{127}$ $\frac{404}{10}$ $\frac{371}{5}$ $\frac{358}{5}$ $\frac{363}{5}$ $\frac{378}{10}$ $\frac{410}{137}$ $\frac{44}{17}$

3.9

$\frac{101}{34}$ $\frac{87}{31}$ $\frac{50}{20}$ $\frac{559}{14}$ $\frac{433}{10}$ $\frac{403}{5}$ $\frac{385}{5}$ $\frac{38}{5}$ $\frac{40}{10}$ $\frac{424}{134}$ $\frac{461}{18}$ $\frac{65}{23}$ $\frac{65}{27}$ $\frac{35}{36}$

$\frac{544}{20}$ $\frac{475}{138}$ $\frac{413}{10}$ $\frac{420}{5}$ $\frac{400}{5}$ $\frac{392}{5}$ $\frac{412}{10}$ $\frac{437}{142}$ $\frac{482}{18}$

4.1

$\frac{82}{33}$ $\frac{875}{22}$ $\frac{516}{18}$ $\frac{472}{136}$ $\frac{416}{10}$ $\frac{419}{5}$ $\frac{405}{5}$ $\frac{403}{5}$ $\frac{428}{10}$ $\frac{445}{141}$ $\frac{463}{17}$ $\frac{612}{22}$ $\frac{59}{28}$ $\frac{25}{36}$

$\frac{56}{18}$ $\frac{479}{128}$ $\frac{463}{10}$ $\frac{426}{5}$ $\frac{410}{5}$ $\frac{407}{5}$ $\frac{435}{10}$ $\frac{45}{128}$ $\frac{484}{17}$

4.3

$\frac{69}{33}$ $\frac{70}{30}$ $\frac{65}{20}$ $\frac{506}{151}$ $\frac{48}{10}$ $\frac{442}{5}$ $\frac{431}{5}$ $\frac{425}{5}$ $\frac{448}{10}$ $\frac{471}{138}$ $\frac{515}{18}$ $\frac{68}{23}$ $\frac{67}{27}$ $\frac{34}{36}$

4.5

$\frac{546}{19}$ $\frac{516}{141}$ $\frac{489}{10}$ $\frac{418}{5}$ $\frac{445}{5}$ $\frac{438}{5}$ $\frac{455}{10}$ $\frac{49}{124}$ $\frac{544}{18}$

4.6

$\frac{70}{33}$ $\frac{67}{26}$ $\frac{541}{19}$ $\frac{518}{143}$ $\frac{502}{10}$ $\frac{474}{5}$ $\frac{464}{5}$ $\frac{46}{5}$ $\frac{486}{10}$ $\frac{545}{172}$ $\frac{72}{21}$ $\frac{74}{26}$ $\frac{71}{33}$

$\frac{57}{19}$ $\frac{54}{138}$ $\frac{52}{10}$ $\frac{476}{15}$ $\frac{471}{5}$ $\frac{476}{5}$ $\frac{498}{10}$ $\frac{539}{141}$ $\frac{575}{18}$

Sta. + X - Elev.

970.19

58+50

65.9

+75

65.9

59

65.9

+25

65.9

+50

65.8

+75

65.7

60

65.5

+25

65.5

+50

65.5

+75

65.5

61

65.5

B.M.

7.13

971.10

6.62

963.97

Lt.

E

Et.

4.7

$\frac{95}{33}$	$\frac{68}{22}$	$\frac{61}{18}$	$\frac{545}{13.9}$	$\frac{422}{10}$	$\frac{478}{5}$	$\frac{470}{5}$	$\frac{477}{5}$	$\frac{496}{10}$	$\frac{5.38}{14.2}$	$\frac{5.81}{19}$	$\frac{73}{23}$	$\frac{73}{29}$	$\frac{67}{33}$
-----------------	-----------------	-----------------	--------------------	------------------	-----------------	-----------------	-----------------	------------------	---------------------	-------------------	-----------------	-----------------	-----------------

$\frac{592}{19}$	$\frac{557}{14.5}$	$\frac{522}{10}$	$\frac{478}{5}$	$\frac{474}{5}$	$\frac{4.83}{5}$	$\frac{495}{10}$	$\frac{5.43}{14.4}$	$\frac{5.71}{19}$
------------------	--------------------	------------------	-----------------	-----------------	------------------	------------------	---------------------	-------------------

4.7

$\frac{96}{33}$	$\frac{622}{20}$	$\frac{552}{14.5}$	$\frac{52}{10}$	$\frac{48}{5}$	$\frac{4.72}{5}$	$\frac{476}{5}$	$\frac{495}{10}$	$\frac{5.25}{14.3}$	$\frac{5.55}{19}$	$\frac{71}{23}$	$\frac{72}{26}$	$\frac{59}{33}$
-----------------	------------------	--------------------	-----------------	----------------	------------------	-----------------	------------------	---------------------	-------------------	-----------------	-----------------	-----------------

$\frac{605}{18}$	$\frac{545}{14}$	$\frac{512}{10}$	$\frac{477}{5}$	$\frac{4.74}{5}$	$\frac{478}{5}$	$\frac{5.0}{10}$	$\frac{5.36}{14.4}$	$\frac{5.55}{17.7}$
------------------	------------------	------------------	-----------------	------------------	-----------------	------------------	---------------------	---------------------

$\frac{95}{33}$	$\frac{626}{19}$	$\frac{572}{14.7}$	$\frac{521}{10}$	$\frac{492}{5}$	$\frac{4.84}{5}$	$\frac{485}{5}$	$\frac{5.06}{10}$	$\frac{5.5}{14.6}$	$\frac{6.02}{19}$	$\frac{78}{23}$	$\frac{80}{30}$	$\frac{7.5}{33}$
-----------------	------------------	--------------------	------------------	-----------------	------------------	-----------------	-------------------	--------------------	-------------------	-----------------	-----------------	------------------

$\frac{63}{19}$	$\frac{57}{14.7}$	$\frac{532}{10}$	$\frac{501}{5}$	$\frac{4.93}{5}$	$\frac{5.0}{5}$	$\frac{5.31}{10}$	$\frac{5.63}{14.8}$	$\frac{6.07}{18}$
-----------------	-------------------	------------------	-----------------	------------------	-----------------	-------------------	---------------------	-------------------

5.1

$\frac{97}{33}$	$\frac{665}{19}$	$\frac{588}{14.4}$	$\frac{578}{10}$	$\frac{507}{5}$	$\frac{5.05}{5}$	$\frac{5.13}{5}$	$\frac{5.44}{10}$	$\frac{5.82}{14.2}$	$\frac{6.33}{17.4}$	$\frac{96}{23}$	$\frac{96}{33}$
-----------------	------------------	--------------------	------------------	-----------------	------------------	------------------	-------------------	---------------------	---------------------	-----------------	-----------------

$\frac{65}{19}$	$\frac{585}{14.8}$	$\frac{545}{10}$	$\frac{516}{5}$	$\frac{5.10}{5}$	$\frac{5.11}{5}$	$\frac{5.47}{10}$	$\frac{5.82}{12.9}$	$\frac{6.17}{16.2}$
-----------------	--------------------	------------------	-----------------	------------------	------------------	-------------------	---------------------	---------------------

5.1

$\frac{114}{36}$	$\frac{656}{18}$	$\frac{594}{13.5}$	$\frac{556}{10}$	$\frac{521}{5}$	$\frac{5.11}{5}$	$\frac{5.08}{5}$	$\frac{5.37}{10}$	$\frac{5.76}{13.6}$	$\frac{6.4}{18}$	$\frac{101}{25}$	$\frac{106}{32}$	$\frac{105}{33}$
------------------	------------------	--------------------	------------------	-----------------	------------------	------------------	-------------------	---------------------	------------------	------------------	------------------	------------------

$\frac{65}{18}$	$\frac{594}{14.5}$	$\frac{555}{10}$	$\frac{517}{5}$	$\frac{5.13}{5}$	$\frac{5.2}{5}$	$\frac{5.4}{10}$	$\frac{5.78}{13.9}$	$\frac{6.4}{17.8}$
-----------------	--------------------	------------------	-----------------	------------------	-----------------	------------------	---------------------	--------------------

5.1

$\frac{106}{33}$	$\frac{64}{18}$	$\frac{582}{13.5}$	$\frac{547}{10}$	$\frac{515}{5}$	$\frac{5.11}{5}$	$\frac{5.08}{5}$	$\frac{5.32}{10}$	$\frac{5.77}{14.3}$	$\frac{6.38}{18}$	$\frac{9.9}{25}$	$\frac{108}{30}$	$\frac{103}{34}$
------------------	-----------------	--------------------	------------------	-----------------	------------------	------------------	-------------------	---------------------	-------------------	------------------	------------------	------------------

Spike in 12" Oak 50' Lt. Sta. 61+46

Sta. + π - Elev.

971.10

61+25

65.6

+50

65.8

+75

66.0

62

66.1

+25

66.0

+50

65.9

+75

65.8

63

65.7

+25

65.4

+50

65.1

+75

64.8

64

64.4

L

E

Rt.

$$\begin{array}{r} 644 \\ 18 \end{array} \quad \begin{array}{r} 605 \\ 12.7 \end{array} \quad \begin{array}{r} 584 \\ 10 \end{array} \quad \begin{array}{r} 554 \\ 5 \end{array} \quad \begin{array}{r} 545 \\ 5 \end{array} \quad \begin{array}{r} 546 \\ 5 \end{array} \quad \begin{array}{r} 567 \\ 10 \end{array} \quad \begin{array}{r} 597 \\ 13.9 \end{array} \quad \begin{array}{r} 64 \\ 18 \end{array}$$

$$\begin{array}{r} 100 \\ 33 \end{array} \quad \begin{array}{r} 98 \\ 27 \end{array} \quad \begin{array}{r} 625 \\ 19 \end{array} \quad \begin{array}{r} 596 \\ 13.9 \end{array} \quad \begin{array}{r} 587 \\ 10 \end{array} \quad \begin{array}{r} 526 \\ 5 \end{array} \quad \begin{array}{r} 533 \\ 5.28 \end{array} \quad \begin{array}{r} 536 \\ 5 \end{array} \quad \begin{array}{r} 56 \\ 10 \end{array} \quad \begin{array}{r} 586 \\ 14.1 \end{array} \quad \begin{array}{r} 63 \\ 20 \end{array} \quad \begin{array}{r} 88 \\ 25 \end{array} \quad \begin{array}{r} 90 \\ 33 \end{array}$$

$$\begin{array}{r} 586 \\ 18 \end{array} \quad \begin{array}{r} 543 \\ 14.2 \end{array} \quad \begin{array}{r} 527 \\ 10 \end{array} \quad \begin{array}{r} 516 \\ 5 \end{array} \quad \begin{array}{r} 512 \\ 5 \end{array} \quad \begin{array}{r} 516 \\ 5 \end{array} \quad \begin{array}{r} 541 \\ 10 \end{array} \quad \begin{array}{r} 57 \\ 14.1 \end{array} \quad \begin{array}{r} 623 \\ 19 \end{array}$$

$$\begin{array}{r} 44 \\ 33 \end{array} \quad \begin{array}{r} 66 \\ 27 \end{array} \quad \begin{array}{r} 66 \\ 22 \end{array} \quad \begin{array}{r} 582 \\ 19 \end{array} \quad \begin{array}{r} 54 \\ 14.5 \end{array} \quad \begin{array}{r} 516 \\ 10 \end{array} \quad \begin{array}{r} 505 \\ 5 \end{array} \quad \begin{array}{r} 500 \\ 5.02 \end{array} \quad \begin{array}{r} 507 \\ 5 \end{array} \quad \begin{array}{r} 524 \\ 10 \end{array} \quad \begin{array}{r} 552 \\ 14.5 \end{array} \quad \begin{array}{r} 587 \\ 19 \end{array} \quad \begin{array}{r} 68 \\ 23 \end{array} \quad \begin{array}{r} 63 \\ 28 \end{array} \quad \begin{array}{r} 08 \\ 37 \end{array}$$

$$\begin{array}{r} 564 \\ 19 \end{array} \quad \begin{array}{r} 526 \\ 12.9 \end{array} \quad \begin{array}{r} 518 \\ 10 \end{array} \quad \begin{array}{r} 507 \\ 10 \end{array} \quad \begin{array}{r} 511 \\ 5 \end{array} \quad \begin{array}{r} 521 \\ 5 \end{array} \quad \begin{array}{r} 53 \\ 10 \end{array} \quad \begin{array}{r} 559 \\ 14.8 \end{array} \quad \begin{array}{r} 585 \\ 19 \end{array}$$

$$\begin{array}{r} 705 \\ 42 \end{array} \quad \begin{array}{r} 57 \\ 27 \end{array} \quad \begin{array}{r} 63 \\ 22 \end{array} \quad \begin{array}{r} 563 \\ 19 \end{array} \quad \begin{array}{r} 522 \\ 15.2 \end{array} \quad \begin{array}{r} 518 \\ 10 \end{array} \quad \begin{array}{r} 512 \\ 5 \end{array} \quad \begin{array}{r} 512 \\ 5.22 \end{array} \quad \begin{array}{r} 523 \\ 5 \end{array} \quad \begin{array}{r} 534 \\ 10 \end{array} \quad \begin{array}{r} 571 \\ 15.2 \end{array} \quad \begin{array}{r} 61 \\ 22 \end{array} \quad \begin{array}{r} 57 \\ 27 \end{array} \quad \begin{array}{r} 22 \\ 35 \end{array}$$

$$\begin{array}{r} 584 \\ 20 \end{array} \quad \begin{array}{r} 54 \\ 15.7 \end{array} \quad \begin{array}{r} 528 \\ 10 \end{array} \quad \begin{array}{r} 524 \\ 5 \end{array} \quad \begin{array}{r} 526 \\ 5 \end{array} \quad \begin{array}{r} 533 \\ 5 \end{array} \quad \begin{array}{r} 552 \\ 10 \end{array} \quad \begin{array}{r} 572 \\ 13.7 \end{array} \quad \begin{array}{r} 587 \\ 18 \end{array}$$

$$\begin{array}{r} 00 \\ 42 \end{array} \quad \begin{array}{r} 55 \\ 30 \end{array} \quad \begin{array}{r} 65 \\ 24 \end{array} \quad \begin{array}{r} 65 \\ 23 \end{array} \quad \begin{array}{r} 61 \\ 20 \end{array} \quad \begin{array}{r} 58 \\ 15.2 \end{array} \quad \begin{array}{r} 553 \\ 10 \end{array} \quad \begin{array}{r} 545 \\ 5 \end{array} \quad \begin{array}{r} 54 \\ 544 \end{array} \quad \begin{array}{r} 559 \\ 5 \end{array} \quad \begin{array}{r} 586 \\ 10 \end{array} \quad \begin{array}{r} 625 \\ 15 \end{array} \quad \begin{array}{r} 65 \\ 21 \end{array} \quad \begin{array}{r} 60 \\ 29 \end{array} \quad \begin{array}{r} 30 \\ 35 \end{array}$$

$$\begin{array}{r} 617 \\ 18 \end{array} \quad \begin{array}{r} 588 \\ 14.5 \end{array} \quad \begin{array}{r} 579 \\ 10 \end{array} \quad \begin{array}{r} 569 \\ 5 \end{array} \quad \begin{array}{r} 566 \\ 5 \end{array} \quad \begin{array}{r} 584 \\ 5 \end{array} \quad \begin{array}{r} 605 \\ 10 \end{array} \quad \begin{array}{r} 632 \\ 14.5 \end{array} \quad \begin{array}{r} 645 \\ 17.9 \end{array}$$

$$\begin{array}{r} 67 \\ 41 \end{array} \quad \begin{array}{r} 61 \\ 29 \end{array} \quad \begin{array}{r} 68 \\ 22 \end{array} \quad \begin{array}{r} 62 \\ 11.3 \end{array} \quad \begin{array}{r} 607 \\ 10 \end{array} \quad \begin{array}{r} 597 \\ 5 \end{array} \quad \begin{array}{r} 60 \\ 598 \end{array} \quad \begin{array}{r} 616 \\ 5 \end{array} \quad \begin{array}{r} 634 \\ 10 \end{array} \quad \begin{array}{r} 654 \\ 14.8 \end{array} \quad \begin{array}{r} 695 \\ 21 \end{array} \quad \begin{array}{r} 74 \\ 22 \end{array} \quad \begin{array}{r} 72 \\ 25 \end{array} \quad \begin{array}{r} 20 \\ 28 \end{array} \quad \begin{array}{r} 25 \\ 35 \end{array}$$

$$\begin{array}{r} 72 \\ 19 \end{array} \quad \begin{array}{r} 675 \\ 15.8 \end{array} \quad \begin{array}{r} 66 \\ 10 \end{array} \quad \begin{array}{r} 643 \\ 5 \end{array} \quad \begin{array}{r} 633 \\ 5 \end{array} \quad \begin{array}{r} 646 \\ 5 \end{array} \quad \begin{array}{r} 659 \\ 10 \end{array} \quad \begin{array}{r} 68 \\ 13.8 \end{array} \quad \begin{array}{r} 695 \\ 21 \end{array}$$

$$\begin{array}{r} 74 \\ 33 \end{array} \quad \begin{array}{r} 84 \\ 28 \end{array} \quad \begin{array}{r} 85 \\ 23 \end{array} \quad \begin{array}{r} 725 \\ 15.4 \end{array} \quad \begin{array}{r} 703 \\ 10 \end{array} \quad \begin{array}{r} 692 \\ 5 \end{array} \quad \begin{array}{r} 60 \\ 608 \end{array} \quad \begin{array}{r} 664 \\ 5 \end{array} \quad \begin{array}{r} 643 \\ 10 \end{array} \quad \begin{array}{r} 621 \\ 15.5 \end{array} \quad \begin{array}{r} 61 \\ 19 \end{array} \quad \begin{array}{r} 75 \\ 22 \end{array} \quad \begin{array}{r} 73 \\ 29 \end{array} \quad \begin{array}{r} 47 \\ 34 \end{array}$$

Sta. + K - Elev.

921.10

64+25

63.9

+50

63.2

+75

62.4

65

61.6

T.P.

2.49

962.68

10.91

960.19

+25

60.9

+50

60.1

+75

59.2

66

58.5

+25

57.9

+50

57.4

+75

57.1

17

2

25

$$\begin{array}{r} 5.3 \\ 18 \end{array} \quad \begin{array}{r} 285 \\ 14.2 \end{array} \quad \begin{array}{r} 7.66 \\ 10 \end{array} \quad \begin{array}{r} 7.44 \\ 5 \end{array} \quad \begin{array}{r} 7.23 \\ 5 \end{array} \quad \begin{array}{r} 7.18 \\ 5 \end{array} \quad \begin{array}{r} 7.2 \\ 10 \end{array} \quad \begin{array}{r} 7.25 \\ 14.9 \end{array} \quad \begin{array}{r} 7.55 \\ 21 \end{array}$$

$$\begin{array}{r} 8.2 \\ 33 \end{array} \quad \begin{array}{r} 8.9 \\ 27 \end{array} \quad \begin{array}{r} 8.9 \\ 24 \end{array} \quad \begin{array}{r} 9.3 \\ 20 \end{array} \quad \begin{array}{r} 8.48 \\ 14.1 \end{array} \quad \begin{array}{r} 8.2 \\ 10 \end{array} \quad \begin{array}{r} 8.03 \\ 5 \end{array} \quad \begin{array}{r} 7.9 \\ 7.92 \end{array} \quad \begin{array}{r} 7.96 \\ 5 \end{array} \quad \begin{array}{r} 8.12 \\ 10 \end{array} \quad \begin{array}{r} 8.21 \\ 14.7 \end{array} \quad \begin{array}{r} 8.61 \\ 21 \end{array} \quad \begin{array}{r} 9.4 \\ 24 \end{array} \quad \begin{array}{r} 9.1 \\ 29 \end{array} \quad \begin{array}{r} 4.3 \\ 39 \end{array}$$

$$\begin{array}{r} 5.6 \\ 20 \end{array} \quad \begin{array}{r} 5.27 \\ 14.7 \end{array} \quad \begin{array}{r} 8.88 \\ 10 \end{array} \quad \begin{array}{r} 8.75 \\ 5 \end{array} \quad \begin{array}{r} 8.68 \\ 5 \end{array} \quad \begin{array}{r} 8.77 \\ 5 \end{array} \quad \begin{array}{r} 8.84 \\ 10 \end{array} \quad \begin{array}{r} 8.97 \\ 13.9 \end{array} \quad \begin{array}{r} 9.3 \\ 20 \end{array}$$

$$\begin{array}{r} 6.7 \\ 38 \end{array} \quad \begin{array}{r} 8.5 \\ 34 \end{array} \quad \begin{array}{r} 10.7 \\ 28 \end{array} \quad \begin{array}{r} 11.0 \\ 22 \end{array} \quad \begin{array}{r} 10.44 \\ 18 \end{array} \quad \begin{array}{r} 8.92 \\ 14.3 \end{array} \quad \begin{array}{r} 9.63 \\ 10 \end{array} \quad \begin{array}{r} 9.5 \\ 5 \end{array} \quad \begin{array}{r} 9.5 \\ 9.47 \end{array} \quad \begin{array}{r} 9.58 \\ 5 \end{array} \quad \begin{array}{r} 9.58 \\ 10 \end{array} \quad \begin{array}{r} 9.94 \\ 11.4 \end{array} \quad \begin{array}{r} 10.05 \\ 19.3 \end{array} \quad \begin{array}{r} 10.2 \\ 29 \end{array} \quad \begin{array}{r} 4.6 \\ 39 \end{array}$$

$$\begin{array}{r} 2.67 \\ 19 \end{array} \quad \begin{array}{r} 2.25 \\ 14.2 \end{array} \quad \begin{array}{r} 2.02 \\ 10 \end{array} \quad \begin{array}{r} 1.87 \\ 5 \end{array} \quad \begin{array}{r} 1.83 \\ 5 \end{array} \quad \begin{array}{r} 1.97 \\ 5 \end{array} \quad \begin{array}{r} 2.0 \\ 10 \end{array} \quad \begin{array}{r} 2.15 \\ 15.8 \end{array} \quad \begin{array}{r} 2.3 \\ 16 \end{array}$$

$$\begin{array}{r} 0.4 \\ 31 \end{array} \quad \begin{array}{r} 4.0 \\ 27 \end{array} \quad \begin{array}{r} 3.5 \\ 19 \end{array} \quad \begin{array}{r} 3.15 \\ 14.2 \end{array} \quad \begin{array}{r} 2.87 \\ 10 \end{array} \quad \begin{array}{r} 2.68 \\ 5 \end{array} \quad \begin{array}{r} 2.6 \\ 2.64 \end{array} \quad \begin{array}{r} 2.72 \\ 5 \end{array} \quad \begin{array}{r} 2.74 \\ 10 \end{array} \quad \begin{array}{r} 3.1 \\ 16.6 \end{array} \quad \begin{array}{r} 3.4 \\ 20 \end{array} \quad \begin{array}{r} 3.7 \\ 22 \end{array} \quad \begin{array}{r} 3.0 \\ 30 \end{array} \quad \begin{array}{r} 0.1 \\ 36 \end{array}$$

$$\begin{array}{r} 4.26 \\ 20 \end{array} \quad \begin{array}{r} 3.19 \\ 13.9 \end{array} \quad \begin{array}{r} 3.64 \\ 10 \end{array} \quad \begin{array}{r} 3.48 \\ 5 \end{array} \quad \begin{array}{r} 3.47 \\ 5 \end{array} \quad \begin{array}{r} 3.5 \\ 5 \end{array} \quad \begin{array}{r} 3.62 \\ 10 \end{array} \quad \begin{array}{r} 3.8 \\ 17.6 \end{array}$$

$$\begin{array}{r} 2.7 \\ 36 \end{array} \quad \begin{array}{r} 5.6 \\ 28 \end{array} \quad \begin{array}{r} 5.67 \\ 24 \end{array} \quad \begin{array}{r} 5.32 \\ 19 \end{array} \quad \begin{array}{r} 4.63 \\ 14.8 \end{array} \quad \begin{array}{r} 4.37 \\ 10 \end{array} \quad \begin{array}{r} 4.26 \\ 5 \end{array} \quad \begin{array}{r} 4.21 \\ 5 \end{array} \quad \begin{array}{r} 4.23 \\ 5 \end{array} \quad \begin{array}{r} 4.31 \\ 10 \end{array} \quad \begin{array}{r} 4.58 \\ 18.6 \end{array} \quad \begin{array}{r} 5.7 \\ 23 \end{array} \quad \begin{array}{r} 5.6 \\ 28 \end{array} \quad \begin{array}{r} 3.7 \\ 34 \end{array}$$

$$\begin{array}{r} 4.2 \\ 21 \end{array} \quad \begin{array}{r} 4.09 \\ 18 \end{array} \quad \begin{array}{r} 5.06 \\ 11.1 \end{array} \quad \begin{array}{r} 5.06 \\ 10 \end{array} \quad \begin{array}{r} 4.92 \\ 5 \end{array} \quad \begin{array}{r} 4.75 \\ 5 \end{array} \quad \begin{array}{r} 4.7 \\ 5 \end{array} \quad \begin{array}{r} 4.67 \\ 10 \end{array} \quad \begin{array}{r} 4.7 \\ 16.4 \end{array} \quad \begin{array}{r} 3.9 \\ 18 \end{array} \quad \begin{array}{r} 4.0 \\ 22 \end{array}$$

$$\begin{array}{r} 4.6 \\ 35 \end{array} \quad \begin{array}{r} 5.81 \\ 34 \end{array} \quad \begin{array}{r} 5.54 \\ 17.5 \end{array} \quad \begin{array}{r} 5.54 \\ 10 \end{array} \quad \begin{array}{r} 5.34 \\ 5 \end{array} \quad \begin{array}{r} 5.3 \\ 5.26 \end{array} \quad \begin{array}{r} 5.18 \\ 5 \end{array} \quad \begin{array}{r} 5.1 \\ 10 \end{array} \quad \begin{array}{r} 5.12 \\ 16.6 \end{array} \quad \begin{array}{r} 5.1 \\ 33 \end{array}$$

$$\begin{array}{r} 5.9 \\ 18 \end{array} \quad \begin{array}{r} 5.7 \\ 10 \end{array} \quad \begin{array}{r} 5.62 \\ 5 \end{array} \quad \begin{array}{r} 5.59 \\ 5 \end{array} \quad \begin{array}{r} 5.44 \\ 5 \end{array} \quad \begin{array}{r} 5.26 \\ 10 \end{array} \quad \begin{array}{r} 5.2 \\ 17.1 \end{array}$$

Sta. + x - Elev.

967.68

67

56.4

+25

55.8

+50

55.0

B.M.

0.84

958.03

5.49

957.19

+75

53.9^v

68

53.0^v

+25

52.1^v

+50

51.2

B.M.

5.69

953.9^v

9.80

948.23

+75

50.5

69

49.8

+25

49.4

Lt.

Q

Rt.

26

6.3

$\frac{6.8}{36}$	$\frac{6.3}{27}$	$\frac{6.35}{10}$	$\frac{6.17}{5}$	$\frac{6.3}{5}$	$\frac{6.19}{5}$	$\frac{6.05}{10}$	$\frac{6.07}{17.7}$	$\frac{5.9}{27}$	$\frac{5.7}{35}$
------------------	------------------	-------------------	------------------	-----------------	------------------	-------------------	---------------------	------------------	------------------

$\frac{6.97}{18}$	$\frac{7.01}{10}$	$\frac{6.94}{5}$	$\frac{6.92}{5}$	$\frac{6.92}{5}$	$\frac{6.87}{10}$	$\frac{6.75}{17.1}$
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7.7

$\frac{7.72}{47}$	$\frac{7.6}{19}$	$\frac{7.75}{10}$	$\frac{7.67}{5}$	$\frac{7.71}{5}$	$\frac{7.7}{5}$	$\frac{7.67}{10}$	$\frac{7.7}{15.9}$	$\frac{7.62}{20}$	$\frac{15.3}{38}$
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Spike in power pole 30' Lt. 5th 67+35

$\frac{4.06}{17.3}$	$\frac{3.95}{10}$	$\frac{3.96}{5}$	$\frac{4.06}{5}$	$\frac{4.07}{5}$	$\frac{4.08}{10}$	$\frac{4.26}{16.3}$
---------------------	-------------------	------------------	------------------	------------------	-------------------	---------------------

$\frac{11.0}{33}$	$\frac{10.7}{29}$	$\frac{5.1}{17.7}$	$\frac{5.1}{10}$	$\frac{5.02}{5}$	$\frac{5.10}{4.98}$	$\frac{5.04}{5}$	$\frac{4.98}{10}$	$\frac{5.09}{16.3}$	$\frac{12.5}{38}$
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$\frac{6.17}{17}$	$\frac{6.12}{10}$	$\frac{5.98}{5}$	$\frac{5.90}{5}$	$\frac{5.94}{5}$	$\frac{6.0}{10}$	$\frac{6.19}{17}$
-------------------	-------------------	------------------	------------------	------------------	------------------	-------------------

6.8

$\frac{11.8}{33}$	$\frac{10.7}{26}$	$\frac{7.17}{18}$	$\frac{7.01}{10}$	$\frac{6.95}{5}$	$\frac{6.83}{5}$	$\frac{6.9}{5}$	$\frac{6.97}{10}$	$\frac{7.08}{11.8}$	$\frac{8.3}{19}$	$\frac{14.7}{40}$
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Spike in 24" Oak 35' Lt. 5th 71+25

$\frac{3.77}{18}$	$\frac{3.71}{14}$	$\frac{3.60}{10}$	$\frac{3.53}{5}$	$\frac{3.4}{5}$	$\frac{3.52}{5}$	$\frac{3.66}{10}$	$\frac{3.92}{11.4}$
-------------------	-------------------	-------------------	------------------	-----------------	------------------	-------------------	---------------------

$\frac{7.0}{33}$	$\frac{6.3}{11}$	$\frac{5.24}{19}$	$\frac{4.52}{14}$	$\frac{4.26}{10}$	$\frac{4.09}{5}$	$\frac{4.07}{5}$	$\frac{4.23}{5}$	$\frac{4.29}{10}$	$\frac{4.37}{16.8}$	$\frac{10.5}{35}$
------------------	------------------	-------------------	-------------------	-------------------	------------------	------------------	------------------	-------------------	---------------------	-------------------

$\frac{5.38}{17.5}$	$\frac{4.62}{10}$	$\frac{4.47}{5}$	$\frac{4.47}{5}$	$\frac{4.6}{5}$	$\frac{4.7}{10}$	$\frac{4.93}{14.8}$
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Sta + K - Elev.

953.9[✓]

69+50

49.2[✓]

+75

49.0[✓]

70

48.8[✓]

+25

48.6[✓]

+50

48.6[✓]

+75

48.6[✓]

71

48.7[✓]

+25

48.8[✓]

+50

49.0[✓]

+75

49.1[✓]

72

49.1[✓]

+25

49.0[✓]

LT

2

RT

27

4.7

$\frac{104}{31}$ $\frac{63}{20}$ $\frac{542}{13}$ $\frac{51}{10}$ $\frac{477}{5}$ $\frac{471}{5}$ $\frac{489}{5}$ $\frac{500}{10}$ $\frac{578}{18}$ $\frac{90}{26}$ $\frac{101}{33}$

$\frac{67}{20}$ $\frac{565}{133}$ $\frac{535}{10}$ $\frac{459}{5}$ $\frac{49}{5}$ $\frac{501}{5}$ $\frac{518}{10}$ $\frac{568}{176}$

5.1

$\frac{116}{33}$ $\frac{110}{30}$ $\frac{69}{19}$ $\frac{585}{147}$ $\frac{549}{10}$ $\frac{519}{5}$ $\frac{508}{5}$ $\frac{513}{5}$ $\frac{53}{10}$ $\frac{549}{132}$ $\frac{588}{17}$ $\frac{74}{22}$ $\frac{72}{27}$ $\frac{55}{31}$

$\frac{59}{144}$ $\frac{518}{10}$ $\frac{533}{5}$ $\frac{527}{5}$ $\frac{524}{5}$ $\frac{543}{10}$ $\frac{566}{181}$ $\frac{558}{18}$

5.3

$\frac{108}{33}$ $\frac{103}{29}$ $\frac{648}{18}$ $\frac{586}{151}$ $\frac{584}{10}$ $\frac{53}{5}$ $\frac{529}{5}$ $\frac{54}{5}$ $\frac{544}{10}$ $\frac{572}{145}$ $\frac{60}{19}$ $\frac{72}{22}$ $\frac{69}{27}$ $\frac{40}{34}$

$\frac{605}{18}$ $\frac{585}{141}$ $\frac{555}{10}$ $\frac{53}{5}$ $\frac{525}{5}$ $\frac{529}{5}$ $\frac{543}{10}$ $\frac{568}{122}$ $\frac{617}{19}$

5.2

$\frac{72}{33}$ $\frac{71}{30}$ $\frac{81}{20}$ $\frac{75}{21}$ $\frac{602}{153}$ $\frac{54}{10}$ $\frac{52}{5}$ $\frac{515}{5}$ $\frac{522}{5}$ $\frac{545}{10}$ $\frac{581}{151}$ $\frac{624}{20}$ $\frac{71}{22}$ $\frac{69}{27}$ $\frac{42}{34}$

$\frac{617}{19}$ $\frac{569}{121}$ $\frac{525}{10}$ $\frac{506}{5}$ $\frac{508}{5}$ $\frac{52}{5}$ $\frac{539}{10}$ $\frac{566}{14}$ $\frac{617}{19}$

4.9

$\frac{58}{33}$ $\frac{56}{30}$ $\frac{67}{27}$ $\frac{68}{22}$ $\frac{592}{19}$ $\frac{54}{11}$ $\frac{51}{10}$ $\frac{492}{5}$ $\frac{491}{5}$ $\frac{507}{5}$ $\frac{527}{10}$ $\frac{558}{145}$ $\frac{584}{18}$ $\frac{69}{22}$ $\frac{66}{26}$ $\frac{60}{29}$ $\frac{30}{36}$

$\frac{57}{19}$ $\frac{54}{149}$ $\frac{496}{10}$ $\frac{482}{5}$ $\frac{476}{5}$ $\frac{49}{5}$ $\frac{518}{10}$ $\frac{543}{148}$ $\frac{585}{20}$

4.8

$\frac{51}{33}$ $\frac{49}{31}$ $\frac{61}{28}$ $\frac{65}{24}$ $\frac{57}{19}$ $\frac{533}{149}$ $\frac{491}{10}$ $\frac{481}{5}$ $\frac{475}{5}$ $\frac{484}{10}$ $\frac{502}{10}$ $\frac{523}{152}$ $\frac{589}{19}$ $\frac{62}{21}$ $\frac{57}{30}$ $\frac{27}{37}$

$\frac{551}{18}$ $\frac{535}{151}$ $\frac{505}{10}$ $\frac{491}{5}$ $\frac{492}{5}$ $\frac{50}{5}$ $\frac{511}{10}$ $\frac{537}{148}$ $\frac{57}{18}$

Sta. + π - Elev.

953.9✓

72+50

49.0¹

+75

48.9¹

73

48.8¹

+25

48.5¹

+50

48.1¹

+75

47.6¹

74

47.3¹

B.M.

4.8✓

↓
949.09

9.65

↓
944.27

+25

46.9¹

+50

46.6¹

+75

46.3¹

75

45.9¹

L

E

RT.

4.9

$\frac{3.2}{34} \frac{5.9}{26} \frac{5.8}{22} \frac{5.44}{18} \frac{5.22}{15.1} \frac{5.08}{10} \frac{4.95}{5} \frac{4.94}{5} \frac{5.06}{5} \frac{5.14}{10} \frac{5.42}{15.7} \frac{5.71}{19} \frac{6.5}{22} \frac{6.3}{25} \frac{5.9}{29} \frac{0.9}{39}$

$\frac{5.5}{19} \frac{5.36}{14.7} \frac{5.11}{10} \frac{4.97}{5} \frac{5.00}{5} \frac{5.15}{5} \frac{5.3}{10} \frac{5.47}{13.3} \frac{5.76}{18}$

$\frac{6.5}{33} \frac{5.4}{30} \frac{6.18}{27} \frac{5.91}{20} \frac{5.59}{14.7} \frac{5.32}{10} \frac{5.16}{5} \frac{5.1}{5.13} \frac{5.24}{5} \frac{5.39}{10} \frac{5.5}{13.4} \frac{5.77}{18} \frac{6.8}{22} \frac{6.6}{28} \frac{5.8}{32} \frac{0.7}{42}$

$\frac{6.17}{19} \frac{5.87}{14.7} \frac{5.62}{10} \frac{5.44}{5} \frac{5.38}{5} \frac{5.46}{5} \frac{5.62}{10} \frac{5.82}{14.2} \frac{6.02}{18}$

$\frac{11.5}{33} \frac{8.2}{24} \frac{7.00}{19} \frac{6.33}{15} \frac{6.12}{10} \frac{5.88}{5} \frac{5.8}{5.81} \frac{5.9}{5} \frac{6.05}{10} \frac{6.21}{11} \frac{6.5}{20} \frac{6.8}{23} \frac{6.7}{26} \frac{6.5+1.0}{31} \frac{1.0}{45}$

$\frac{7.4}{19} \frac{7.02}{14.5} \frac{6.56}{10} \frac{6.31}{5} \frac{6.26}{5} \frac{6.37}{5} \frac{6.52}{10} \frac{6.67}{14.3} \frac{6.9}{19}$

$\frac{12.8}{39} \frac{8.2}{22} \frac{7.33}{15} \frac{6.96}{10} \frac{6.7}{5} \frac{6.6}{6.64} \frac{6.75}{5} \frac{6.92}{10} \frac{7.18}{14.6} \frac{7.42}{19} \frac{7.72}{21} \frac{7.4}{28} \frac{2.7}{39}$

Spike in Fence Post 50' RT 515. 75 + 65

$\frac{3.22}{19} \frac{2.73}{14.3} \frac{2.52}{10} \frac{2.24}{5} \frac{2.16}{5} \frac{2.24}{5} \frac{2.42}{10} \frac{2.68}{14.1} \frac{3.07}{18}$

$\frac{10.7}{40} \frac{7.2}{30} \frac{3.8}{21} \frac{3.16}{15} \frac{2.79}{10} \frac{2.52}{5} \frac{2.5}{2.47} \frac{2.50}{5} \frac{2.65}{10} \frac{3.02}{15.2} \frac{3.2}{19} \frac{4.5}{22} \frac{4.3}{28} \frac{3.2}{31} \frac{2.9}{33}$

$\frac{3.94}{21} \frac{3.33}{13.8} \frac{3.07}{10} \frac{2.84}{5} \frac{2.84}{5} \frac{2.91}{5} \frac{3.12}{10} \frac{3.31}{18.9} \frac{3.79}{18}$

$\frac{10.6}{39} \frac{4.9}{23} \frac{4.22}{19} \frac{3.65}{14.2} \frac{3.47}{10} \frac{3.23}{5} \frac{3.23}{5} \frac{3.38}{5} \frac{3.59}{10} \frac{3.85}{13.6} \frac{4.34}{19} \frac{5.4}{22} \frac{5.3}{28} \frac{4.1}{31} \frac{4.0}{33}$

Sto. + π - Elev.

949.09

75+25

45.4

+50

44.8

+75

44.1

76

43.3

+25

42.6

+50

41.9

+75

41.2

77

40.6

+25

40.1

+50

39.6

+75

39.3

78

39.1

Lt.

E

Rt.

29

$$\begin{array}{r} 4.74 \\ 19 \end{array} \quad \begin{array}{r} 4.25 \\ 14.4 \end{array} \quad \begin{array}{r} 3.97 \\ 10 \end{array} \quad \begin{array}{r} 3.72 \\ 5 \end{array} \quad \begin{array}{r} 3.70 \\ 5 \end{array} \quad \begin{array}{r} 3.88 \\ 5 \end{array} \quad \begin{array}{r} 4.13 \\ 10 \end{array} \quad \begin{array}{r} 4.42 \\ 13.7 \end{array} \quad \begin{array}{r} 5.03 \\ 19 \end{array}$$

$$\begin{array}{r} 12.6 \\ 52 \end{array} \quad \begin{array}{r} 5.8 \\ 23 \end{array} \quad \begin{array}{r} 5.9 \\ 22 \end{array} \quad \begin{array}{r} 5.16 \\ 19 \end{array} \quad \begin{array}{r} 4.83 \\ 15.1 \end{array} \quad \begin{array}{r} 4.47 \\ 10 \end{array} \quad \begin{array}{r} 4.28 \\ 5 \end{array} \quad \begin{array}{r} 4.3 \\ 4.28 \end{array} \quad \begin{array}{r} 4.45 \\ 5 \end{array} \quad \begin{array}{r} 4.67 \\ 10 \end{array} \quad \begin{array}{r} 4.98 \\ 14.4 \end{array} \quad \begin{array}{r} 5.5 \\ 18 \end{array} \quad \begin{array}{r} 6.8 \\ 21 \end{array} \quad \begin{array}{r} 6.7 \\ 24 \end{array} \quad \begin{array}{r} 5.9 \\ 28 \end{array} \quad \begin{array}{r} 5.5 \\ 33 \end{array}$$

$$\begin{array}{r} 6.06 \\ 20 \end{array} \quad \begin{array}{r} 5.5 \\ 14.9 \end{array} \quad \begin{array}{r} 5.23 \\ 10 \end{array} \quad \begin{array}{r} 5.04 \\ 5 \end{array} \quad \begin{array}{r} 4.99 \\ 5 \end{array} \quad \begin{array}{r} 5.13 \\ 5 \end{array} \quad \begin{array}{r} 5.39 \\ 10 \end{array} \quad \begin{array}{r} 5.47 \\ 13.8 \end{array} \quad \begin{array}{r} 5.64 \\ 19 \end{array}$$

$$\begin{array}{r} 14.3 \\ 60 \end{array} \quad \begin{array}{r} 7.5 \\ 34 \end{array} \quad \begin{array}{r} 7.1 \\ 24 \end{array} \quad \begin{array}{r} 6.33 \\ 15 \end{array} \quad \begin{array}{r} 5.96 \\ 10 \end{array} \quad \begin{array}{r} 5.83 \\ 5 \end{array} \quad \begin{array}{r} 5.8 \\ 5.78 \end{array} \quad \begin{array}{r} 5.9 \\ 5 \end{array} \quad \begin{array}{r} 6.13 \\ 10 \end{array} \quad \begin{array}{r} 6.34 \\ 14.3 \end{array} \quad \begin{array}{r} 6.7 \\ 18.8 \end{array} \quad \begin{array}{r} 7.9 \\ 23 \end{array} \quad \begin{array}{r} 7.6 \\ 28 \end{array} \quad \begin{array}{r} 8.2 \\ 33 \end{array}$$

$$\begin{array}{r} 7.44 \\ 20 \end{array} \quad \begin{array}{r} 6.93 \\ 13.8 \end{array} \quad \begin{array}{r} 6.75 \\ 10 \end{array} \quad \begin{array}{r} 6.52 \\ 5 \end{array} \quad \begin{array}{r} 6.54 \\ 5 \end{array} \quad \begin{array}{r} 6.66 \\ 5 \end{array} \quad \begin{array}{r} 6.9 \\ 10 \end{array} \quad \begin{array}{r} 7.09 \\ 13.6 \end{array} \quad \begin{array}{r} 7.33 \\ 19 \end{array}$$

$$\begin{array}{r} 14.3 \\ 39 \end{array} \quad \begin{array}{r} 8.49 \\ 22 \end{array} \quad \begin{array}{r} 7.82 \\ 14.9 \end{array} \quad \begin{array}{r} 7.55 \\ 10 \end{array} \quad \begin{array}{r} 7.24 \\ 5 \end{array} \quad \begin{array}{r} 7.2 \\ 7.23 \end{array} \quad \begin{array}{r} 7.32 \\ 5 \end{array} \quad \begin{array}{r} 7.53 \\ 10 \end{array} \quad \begin{array}{r} 7.76 \\ 14 \end{array} \quad \begin{array}{r} 8.05 \\ 19.5 \end{array} \quad \begin{array}{r} 9.3 \\ 23 \end{array} \quad \begin{array}{r} 8.8 \\ 28 \end{array} \quad \begin{array}{r} 7.3 \\ 33 \end{array}$$

$$\begin{array}{r} 8.85 \\ 19 \end{array} \quad \begin{array}{r} 8.6 \\ 11.1 \end{array} \quad \begin{array}{r} 8.2 \\ 10 \end{array} \quad \begin{array}{r} 7.92 \\ 5 \end{array} \quad \begin{array}{r} 7.88 \\ 5 \end{array} \quad \begin{array}{r} 7.98 \\ 5 \end{array} \quad \begin{array}{r} 8.24 \\ 10 \end{array} \quad \begin{array}{r} 8.35 \\ 14.4 \end{array} \quad \begin{array}{r} 8.7 \\ 20 \end{array}$$

$$\begin{array}{r} 15.9 \\ 39 \end{array} \quad \begin{array}{r} 10.2 \\ 21 \end{array} \quad \begin{array}{r} 9.25 \\ 14.8 \end{array} \quad \begin{array}{r} 8.84 \\ 10 \end{array} \quad \begin{array}{r} 8.48 \\ 5 \end{array} \quad \begin{array}{r} 8.5 \\ 8.46 \end{array} \quad \begin{array}{r} 8.56 \\ 5 \end{array} \quad \begin{array}{r} 8.83 \\ 10 \end{array} \quad \begin{array}{r} 8.9 \\ 14.2 \end{array} \quad \begin{array}{r} 9.3 \\ 17.2 \end{array} \quad \begin{array}{r} 9.7 \\ 22 \end{array} \quad \begin{array}{r} 11.1 \\ 28 \end{array} \quad \begin{array}{r} 12.1 \\ 33 \end{array}$$

$$\begin{array}{r} 10.35 \\ 20 \end{array} \quad \begin{array}{r} 10.1 \\ 15 \end{array} \quad \begin{array}{r} 9.44 \\ 10 \end{array} \quad \begin{array}{r} 9.01 \\ 5 \end{array} \quad \begin{array}{r} 9.01 \\ 5 \end{array} \quad \begin{array}{r} 9.14 \\ 5 \end{array} \quad \begin{array}{r} 9.42 \\ 10 \end{array} \quad \begin{array}{r} 9.7 \\ 14.3 \end{array} \quad \begin{array}{r} 10.32 \\ 20 \end{array}$$

$$\begin{array}{r} 15.1 \\ 34 \end{array} \quad \begin{array}{r} 11.05 \\ 21 \end{array} \quad \begin{array}{r} 10.36 \\ 14.1 \end{array} \quad \begin{array}{r} 9.9 \\ 10 \end{array} \quad \begin{array}{r} 9.52 \\ 5 \end{array} \quad \begin{array}{r} 9.5 \\ 9.48 \end{array} \quad \begin{array}{r} 9.56 \\ 5 \end{array} \quad \begin{array}{r} 9.77 \\ 10 \end{array} \quad \begin{array}{r} 10.0 \\ 13.8 \end{array} \quad \begin{array}{r} 11.0 \\ 21 \end{array} \quad \begin{array}{r} 13.4 \\ 27 \end{array} \quad \begin{array}{r} 13.5 \\ 33 \end{array}$$

$$\begin{array}{r} 11.32 \\ 20 \end{array} \quad \begin{array}{r} 10.78 \\ 13.3 \end{array} \quad \begin{array}{r} 10.26 \\ 10 \end{array} \quad \begin{array}{r} 9.86 \\ 5 \end{array} \quad \begin{array}{r} 9.80 \\ 5 \end{array} \quad \begin{array}{r} 9.91 \\ 5 \end{array} \quad \begin{array}{r} 10.09 \\ 10 \end{array} \quad \begin{array}{r} 10.32 \\ 13.3 \end{array} \quad \begin{array}{r} 10.9 \\ 19 \end{array}$$

$$\begin{array}{r} 15.4 \\ 34 \end{array} \quad \begin{array}{r} 11.05 \\ 21 \end{array} \quad \begin{array}{r} 10.94 \\ 15.1 \end{array} \quad \begin{array}{r} 10.38 \\ 10 \end{array} \quad \begin{array}{r} 10.0 \\ 5 \end{array} \quad \begin{array}{r} 10.0 \\ 10.03 \end{array} \quad \begin{array}{r} 10.08 \\ 5 \end{array} \quad \begin{array}{r} 10.26 \\ 10 \end{array} \quad \begin{array}{r} 10.6 \\ 14.1 \end{array} \quad \begin{array}{r} 11.0 \\ 19 \end{array} \quad \begin{array}{r} 12.8 \\ 25 \end{array} \quad \begin{array}{r} 12.8 \\ 33 \end{array}$$

Sta. + K - Elev.

949.09

78+25

39.1

+50

39.0

+75

39.2

+99.25

39.2

B.M.

991

939.18

B.M.

5.34

986.06

980.74

0+10

80.7

Lt.

E

Rt.

114	1074	1037	1002	10.01	101	1022	106	1092
<u>20</u>	<u>139</u>	<u>10</u>	<u>5</u>	<u>10.01</u>	<u>5</u>	<u>10</u>	<u>142</u>	<u>19</u>

153	1135	1059	1044	1005	10.1	1011	102	1046	1026	122	126	125
<u>33</u>	<u>20</u>	<u>143</u>	<u>10</u>	<u>5</u>	<u>10.07</u>	<u>5</u>	<u>10</u>	<u>141</u>	<u>18.5</u>	<u>23</u>	<u>26</u>	<u>33</u>

1145	1073	1026	992	9.94	996	1007	1035	1055
<u>19</u>	<u>145</u>	<u>10</u>	<u>5</u>	<u>9.94</u>	<u>5</u>	<u>10</u>	<u>145</u>	<u>19</u>

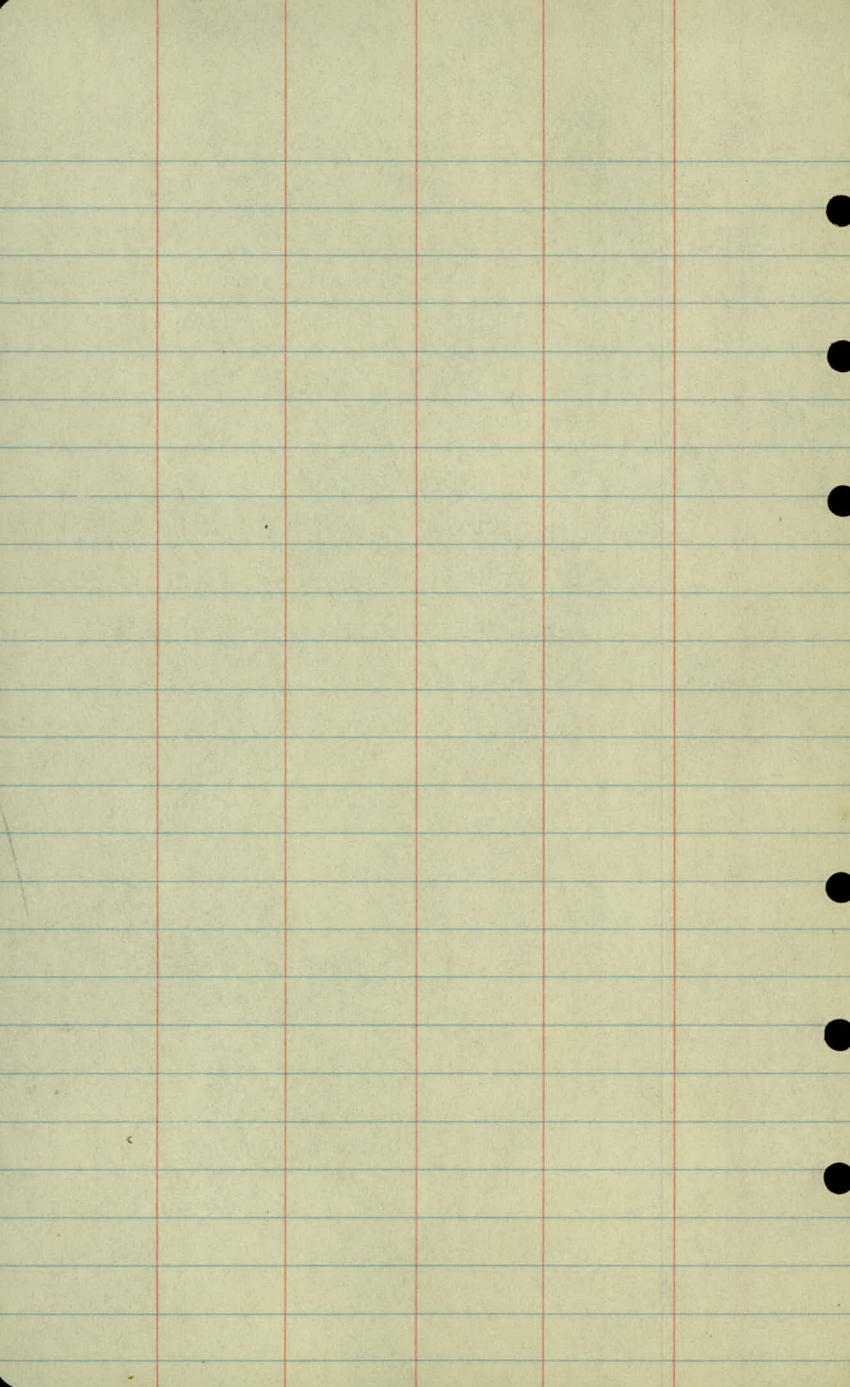
15.8	11.14	1064	10.08	996	9.91	984	1003	1026	1096	132	130	130
<u>25</u>	<u>196</u>	<u>148</u>	<u>10</u>	<u>5</u>	<u>9.91</u>	<u>5</u>	<u>10</u>	<u>142</u>	<u>18.6</u>	<u>27</u>	<u>32</u>	<u>33</u>

9.9

Top of Stone Mon. Sta. 78+99.25 ✓

5.4

5.10	5.24	5.38	5.6	5.75
<u>40</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>20</u>



Cleveland Ave

~~4~~ Levels

From Sta 78+99.25

to 89+00

Sta	+	π	-	Elev
B.M.	9.04	948.22		939.18
78 + 99.25				39.12
79				39.29
+ 50				39.42
80				39.93
+ 50				41.02
81				42.48
+ 50				44.26
82				46.20
+ 50				47.95
T.P.	10.62	958.06	0.78	947.44
83				49.88
+ 50				51.68
84				53.18

2

Top of Mont Sta 78499.25

9.1

8.93

8.80

8.29

7.20

574

396

202

0.27

8.18

6.38

4.88

Sta + π - Elev

958.06

84+50

54.66

85

55.96

+50

57.01

86

57.96

T.P. 6.72 964.57 0.21

957.85

+50

58.72

87

59.34

+50

59.88

88

60.54

+50

60.94

89

61.27

T.P. 0.69 958.54 6.72

957.85

0.09 947.53 11.10

947.44

B M

8.35

939.18 739.18

2

3.40

2.10

1.05

0.10

5.85

5.23

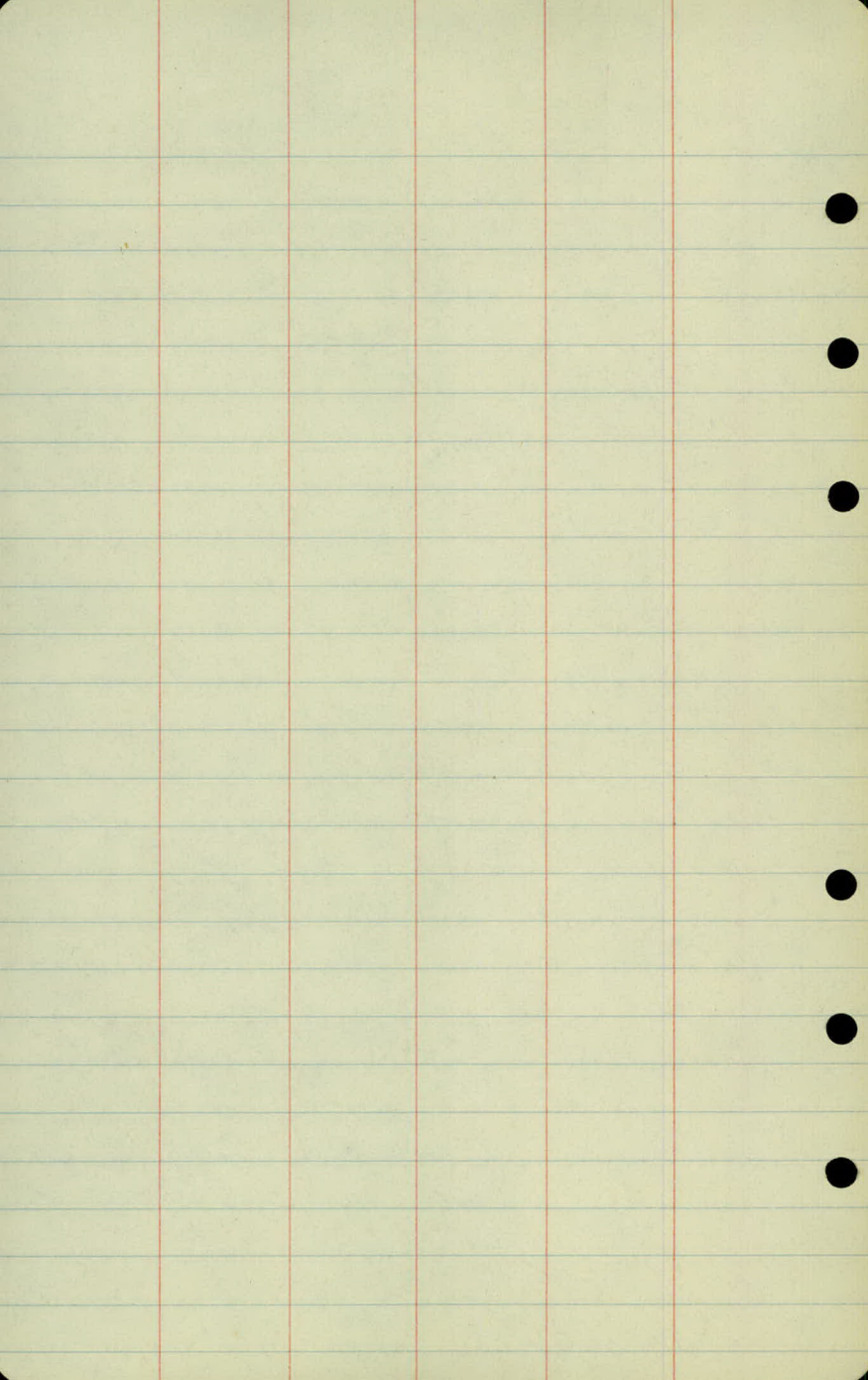
4.69

4.03

3.63

3.30

Top of Mont Sta 78+99.25

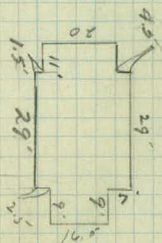


Location of House
on Blvd

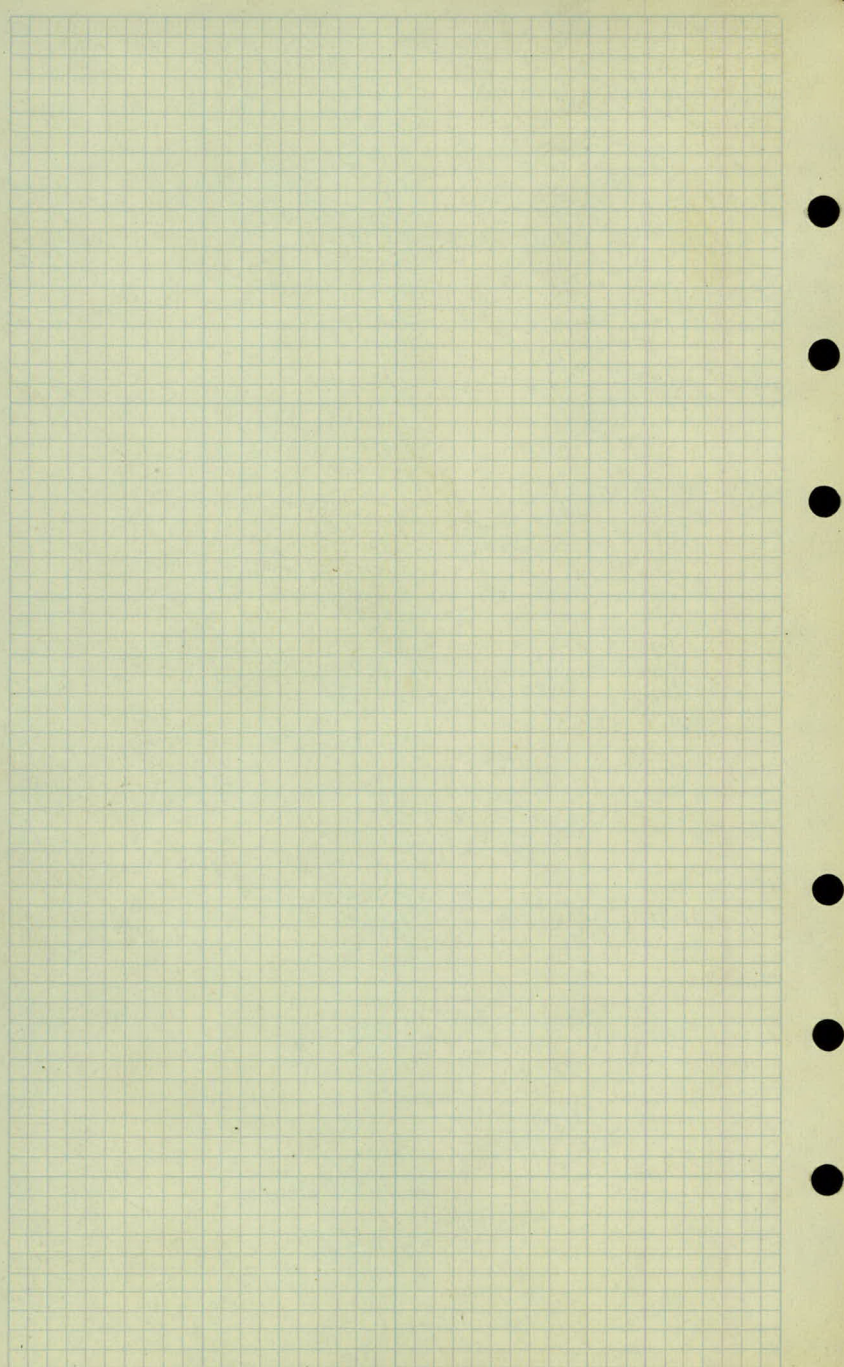
X

63+17

99'



Scale 1" = 250'



Cross sections

Az & Cleveland

0400 to 5400 East

0400 to 5400 West

Sta	+	π	-	Elev
B.M	8.19	990.99		982.80
0+00		± Close		82.9
+10				83.0
+20				82.9
+27				82.9
+50				83.0
1+00				83.6
+50				84.1
2				84.6
+50				85.1
3				85.5
+50				86.1
4+00				86.8

0+00 to 5+00 East

Lt * Rt

Top of Mant Art Cleveland

$\frac{7.7}{50}$ 8.1 $\frac{8.5}{50}$

$\frac{8.0}{33}$ 8.0 $\frac{8.3}{33}$

$\frac{8.7}{54}$ 8.1 $\frac{8.6}{33}$

$\frac{8.8}{33}$ $\frac{9.0}{22}$ $\frac{8.5}{16}$ $\frac{8.1}{8}$ 8.1 $\frac{8.7}{22}$ $\frac{9.1}{26}$ $\frac{9.3}{33}$

$\frac{9.6}{38}$ $\frac{9.4}{29}$ $\frac{8.5}{23}$ $\frac{8.4}{12}$ $\frac{8.1}{8}$ 8.0 $\frac{8.6}{11}$ $\frac{9.2}{14}$ $\frac{9.1}{17}$ $\frac{8.2}{20}$ $\frac{8.4}{30}$ $\frac{8.5}{33}$

$\frac{6.7}{36}$ $\frac{6.7}{23}$ $\frac{8.4}{18}$ $\frac{8.4}{14}$ $\frac{7.9}{13}$ 7.4 $\frac{7.8}{11}$ $\frac{8.1}{14}$ $\frac{8.7}{16}$ $\frac{8.7}{17}$ $\frac{7.7}{22}$ $\frac{8.0}{30}$
8.2
33

$\frac{1.2}{33}$ $\frac{1.8}{25}$ $\frac{7.6}{15}$ $\frac{7.6}{14}$ $\frac{2.1}{11}$ 6.9 $\frac{7.3}{12}$ $\frac{8.1}{16}$ $\frac{8.1}{17}$ $\frac{7.0}{20}$ $\frac{7.4}{30}$ $\frac{7.4}{33}$

$\frac{3.8}{37}$ $\frac{3.9}{23}$ $\frac{7.4}{17}$ $\frac{7.4}{14}$ $\frac{6.7}{12}$ 6.4 $\frac{6.7}{13}$ $\frac{7.3}{15}$ $\frac{7.3}{18}$ $\frac{4.2}{23}$ $\frac{4.4}{33}$

$\frac{4.0}{34}$ $\frac{4.2}{23}$ $\frac{6.9}{18}$ $\frac{6.9}{14}$ $\frac{6.1}{12}$ 5.9 $\frac{6.2}{12}$ $\frac{6.7}{14}$ $\frac{6.7}{16}$ $\frac{5.8}{19}$ $\frac{5.0}{23}$ $\frac{3.1}{26}$ $\frac{3.5}{31}$
4.0
33

$\frac{3.6}{34}$ $\frac{3.8}{23}$ $\frac{6.7}{18}$ $\frac{6.7}{15}$ $\frac{5.9}{12}$ 5.6 $\frac{5.8}{12}$ $\frac{6.4}{14}$ $\frac{6.4}{16}$ $\frac{6.0}{18}$ $\frac{2.5}{24}$ $\frac{2.8}{33}$

$\frac{4.9}{36}$ $\frac{4.6}{21}$ $\frac{6.2}{18}$ $\frac{6.2}{15}$ $\frac{5.2}{11}$ 4.9 $\frac{5.2}{12}$ $\frac{6.3}{15}$ $\frac{6.3}{19}$ $\frac{4.0}{23}$ $\frac{4.1}{33}$

$\frac{5.5}{36}$ $\frac{4.8}{26}$ $\frac{4.6}{17}$ $\frac{4.4}{11}$ 4.2 $\frac{4.2}{16}$ $\frac{7.1}{20}$ $\frac{7.7}{23}$ $\frac{7.6}{33}$

Sta	+	π	-	Elev
		990.99		
4+50				87.0
5+00				87.4
B.M.	1.49	984.49	8.19	982.80
		0+00 to 5+00 West		
0+17				82.4
+29				82.2
+50				81.8
1+00				81.3
+50				80.7
2+00				79.8
+50				79.3
3'				79.1
+50				78.9

LT Z RT

$$\frac{6.6}{36} \frac{5.1}{20} \frac{4.4}{10} 4.0 \frac{4.2}{9} \frac{4.2}{14} \frac{8.4}{23} \frac{8.7}{31} \frac{8.5}{33}$$

$$\frac{6.1}{36} \frac{6.2}{29} \frac{4.6}{20} \frac{4.4}{17} \frac{4.1}{11} 3.6 \frac{3.7}{9} \frac{3.9}{13} \frac{7.1}{22} \frac{6.8}{33}$$

Top of Mont Ar & Cleveland

$$\frac{2.5}{33} \frac{2.3}{14} 2.1 \frac{2.3}{14} \frac{2.9}{40}$$

$$\frac{4.4}{46} \frac{3.1}{28} \frac{3.1}{20} \frac{2.5}{10} 2.3 \frac{2.5}{11} \frac{3.1}{24} \frac{3.4}{29} \frac{5.5}{48}$$

$$\frac{6.1}{33} \frac{3.7}{23} \frac{3.0}{10} 2.7 \frac{3.0}{13} \frac{3.1}{22} \frac{6.9}{31} \frac{7.1}{34}$$

$$\frac{9.2}{33} \frac{8.1}{26} \frac{4.5}{19} \frac{3.4}{8} 3.2 \frac{3.5}{11} \frac{4.5}{25} \frac{7.2}{33}$$

$$\frac{10.1}{33} \frac{9.2}{27} \frac{5.0}{18} \frac{4.1}{8} 3.8 \frac{4.1}{11} \frac{5.2}{18} \frac{5.4}{31} \frac{7.7}{36}$$

$$\frac{10.6}{33} \frac{10.4}{29} \frac{10.2}{26} \frac{5.8}{18} \frac{5.1}{8} 4.7 \frac{4.8}{10} \frac{5.6}{37}$$

$$\frac{10.3}{33} \frac{9.6}{22} \frac{6.2}{15} \frac{5.6}{9} 5.2 \frac{5.4}{10} \frac{5.6}{34}$$

$$\frac{9.5}{33} \frac{9.1}{23} \frac{6.3}{15} \frac{5.7}{9} 5.4 \frac{5.6}{9} \frac{5.2}{13} \frac{8.2}{38}$$

$$\frac{9.2}{33} \frac{8.7}{24} \frac{6.6}{17} \frac{5.9}{10} 5.6 \frac{5.8}{9} \frac{5.3}{12} \frac{5.1}{38}$$

Sta + π - Elev

984.49

4400

78.7

+50

78.4

5400

77.9

BM

169 982.80

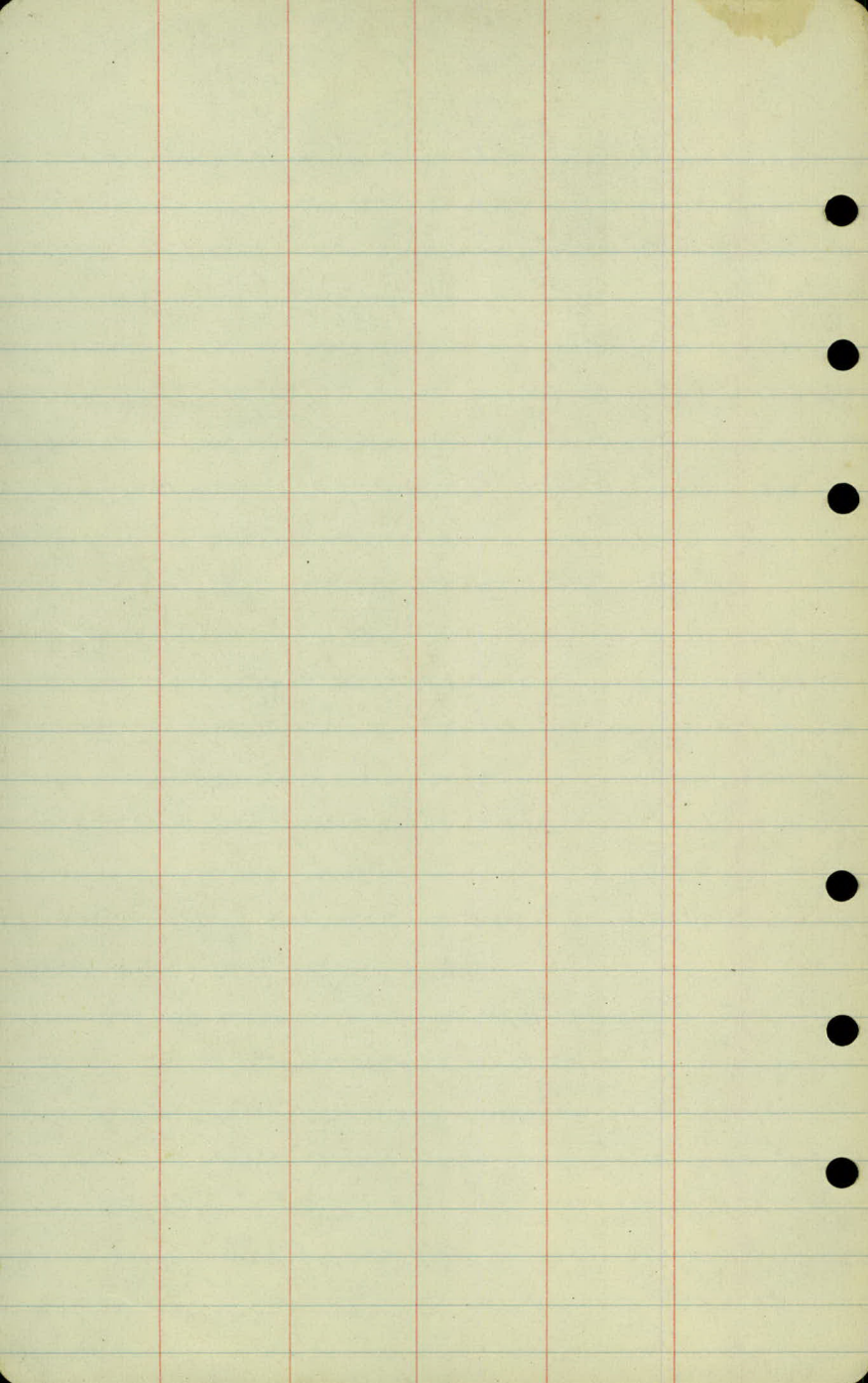
Lt £ R4

$\frac{8.5}{33}$ $\frac{7.4}{26}$ $\frac{7.0}{27}$ $\frac{6.1}{10}$ 5.8 $\frac{5.7}{11}$ $\frac{5.4}{13}$ $\frac{5.7}{22}$ $\frac{4.4}{35}$

$\frac{7.4}{35}$ $\frac{6.6}{22}$ $\frac{6.4}{11}$ 6.1 $\frac{6.2}{9}$ $\frac{5.9}{13}$ $\frac{6.7}{17}$ $\frac{6.5}{25}$ $\frac{1.4}{34}$

$\frac{6.5}{33}$ $\frac{7.9}{27}$ $\frac{7.9}{21}$ $\frac{7.2}{17}$ $\frac{6.8}{11}$ 6.6 $\frac{6.7}{8}$ $\frac{6.8}{14}$ $\frac{7.6}{17}$ $\frac{7.3}{24}$ $\frac{2.1}{34}$

Top of Mount Ar 6 Cleveland



Cross Sections
B + Cleveland
0+00 to 4+50

Sta	+	$\bar{A}$	-	Elev
B.M.	5.68	977.59		971.91
0+00			Δ Elev	73.3
+25				72.5
+35				72.2
+50				71.6
1+00				70.0
+50				69.0
2+00				68.8
+50				69.0
3+00				70.2
+50				71.9
4+00				73.9
+50				76.4
B.M.	5.68	977.59	5.68	971.91

LT K RT

Spr 117 10" Oak 30' RT Sta 49+68

$\frac{5.3}{58}$ 43 $\frac{4.5}{50}$

$\frac{6.8}{50}$ $\frac{4.2}{38}$ $\frac{5.2}{14}$ 5.1 $\frac{5.0}{24}$ $\frac{5.4}{39}$ $\frac{5.3}{50}$

$\frac{5.1}{50}$ $\frac{5.3}{37}$ $\frac{6.2}{28}$ $\frac{5.6}{13}$ 5.4 $\frac{5.8}{15}$ $\frac{6.0}{28}$ $\frac{5.4}{36}$ $\frac{3.4}{44}$ $\frac{9.0}{50}$

$\frac{5.3}{50}$ $\frac{5.4}{27}$ $\frac{6.0}{24}$ $\frac{6.3}{15}$ 6.0 $\frac{6.6}{19}$ $\frac{6.0}{30}$ $\frac{4.4}{36}$ $\frac{4.1}{50}$

$\frac{7.9}{50}$ $\frac{7.0}{26}$ $\frac{7.2}{24}$ $\frac{8.0}{12}$ 7.6 $\frac{8.0}{12}$ $\frac{8.8}{54}$ $\frac{9.6}{50}$

$\frac{14.4}{35}$ $\frac{14.0}{22}$ $\frac{9.0}{15}$ 8.6 $\frac{8.9}{13}$ $\frac{9.8}{16}$ $\frac{14.0}{24}$ $\frac{15.4}{36}$

$\frac{13.5}{36}$ $\frac{13.9}{25}$ $\frac{9.2}{13}$ 8.8 $\frac{9.2}{13}$ $\frac{14.7}{26}$ $\frac{15.8}{36}$

$\frac{12.5}{34}$ $\frac{13.1}{25}$ $\frac{8.8}{15}$ 8.6 $\frac{9.2}{15}$ $\frac{13.2}{23}$ $\frac{15.6}{38}$

$\frac{7.3}{35}$ $\frac{7.0}{28}$ $\frac{7.2}{24}$ $\frac{7.2}{14}$ 7.4 $\frac{8.0}{15}$ $\frac{11.0}{24}$ $\frac{13.2}{39}$

$\frac{5.0}{35}$ $\frac{5.1}{26}$ $\frac{5.8}{24}$ $\frac{6.0}{16}$ 5.7 $\frac{6.1}{16}$ $\frac{7.4}{19}$ $\frac{8.2}{39}$

$\frac{5.7}{36}$ $\frac{5.5}{21}$ $\frac{3.9}{16}$ 3.7 $\frac{4.2}{16}$ $\frac{4.1}{21}$ $\frac{5.8}{35}$

$\frac{5.5}{36}$ $\frac{4.9}{29}$ $\frac{1.6}{17}$ 1.2 $\frac{1.7}{16}$ $\frac{3.2}{22}$ $\frac{4.1}{37}$

Sta	+	π	-	Elev
		977.59		
0+19				73.3
+33				73.3
+50				73.6
1+00				75.1
TP	13.71	988.76	2.54	977.05
+50				76.8
2+00				77.9
+50				78.3
3+00				78.0
+50				77.6
4				76.8
+50				76.0
5				75.0
	2.54	977.59	13.71	977.05
			5.68	971.91

0+00 to 5+00 West

LT

X

RT

$\frac{4.9}{43} \frac{4.9}{28} \frac{4.4}{15} 4.3 \quad \frac{4.8}{14} \frac{5.2}{33} \frac{5.8}{43} \frac{6.1}{50}$

$\frac{6.7}{44} \frac{6.8}{27} \frac{4.7}{18} 4.3 \quad \frac{4.6}{13} \frac{5.2}{24} \frac{7.7}{36} \frac{9.2}{50}$

$\frac{7.8}{43} \frac{7.7}{30} \frac{8.2}{25} \frac{4.7}{17} 4.0 \quad \frac{4.6}{17} \frac{9.7}{28} \frac{11.0}{34}$

$\frac{7.5}{35} \frac{6.9}{25} \frac{3.4}{17} 2.5 \quad \frac{3.2}{16} \frac{7.7}{26} \frac{11.1}{33}$

$\frac{8.1}{40} \frac{8.7}{21} \frac{12.5}{16} 12.0 \quad \frac{12.3}{12} \frac{12.2}{19} \frac{15.0}{33}$

$\frac{2.6}{39} \frac{4.0}{25} \frac{11.0}{17} \frac{11.2}{12} 10.9 \quad \frac{11.0}{15} \frac{4.3}{25} \frac{5.2}{33}$

$\frac{0.0}{37} \frac{1.6}{27} \frac{10.9}{19} \frac{10.8}{12} 10.5 \quad \frac{10.8}{14} \frac{4.5}{23} \frac{6.0}{34}$

$\frac{7.5}{35} \frac{9.5}{18} \frac{11.1}{15} 11.8 \quad \frac{11.1}{15} \frac{10.4}{17} \frac{12.2}{24} \frac{13.5}{33}$

$\frac{6.0}{33} \frac{6.9}{21} \frac{11.5}{16} 11.2 \quad \frac{11.5}{14} \frac{9.6}{18} \frac{11.4}{33}$

$\frac{4.4}{38} \frac{4.4}{24} \frac{12.2}{15} 12.0 \quad \frac{12.2}{16} \frac{9.1}{17} \frac{12.0}{34}$

$\frac{4.1}{38} \frac{4.1}{27} \frac{13.0}{16} 12.8 \quad \frac{13.1}{16} \frac{10.9}{19} \frac{14.6}{33}$

$\frac{7.5}{38} \frac{9.0}{21} \frac{14.4}{16} 13.8 \quad \frac{14.0}{16} \frac{13.0}{22} \frac{14.6}{33}$

50K in 10" Oak 30RT 49+68

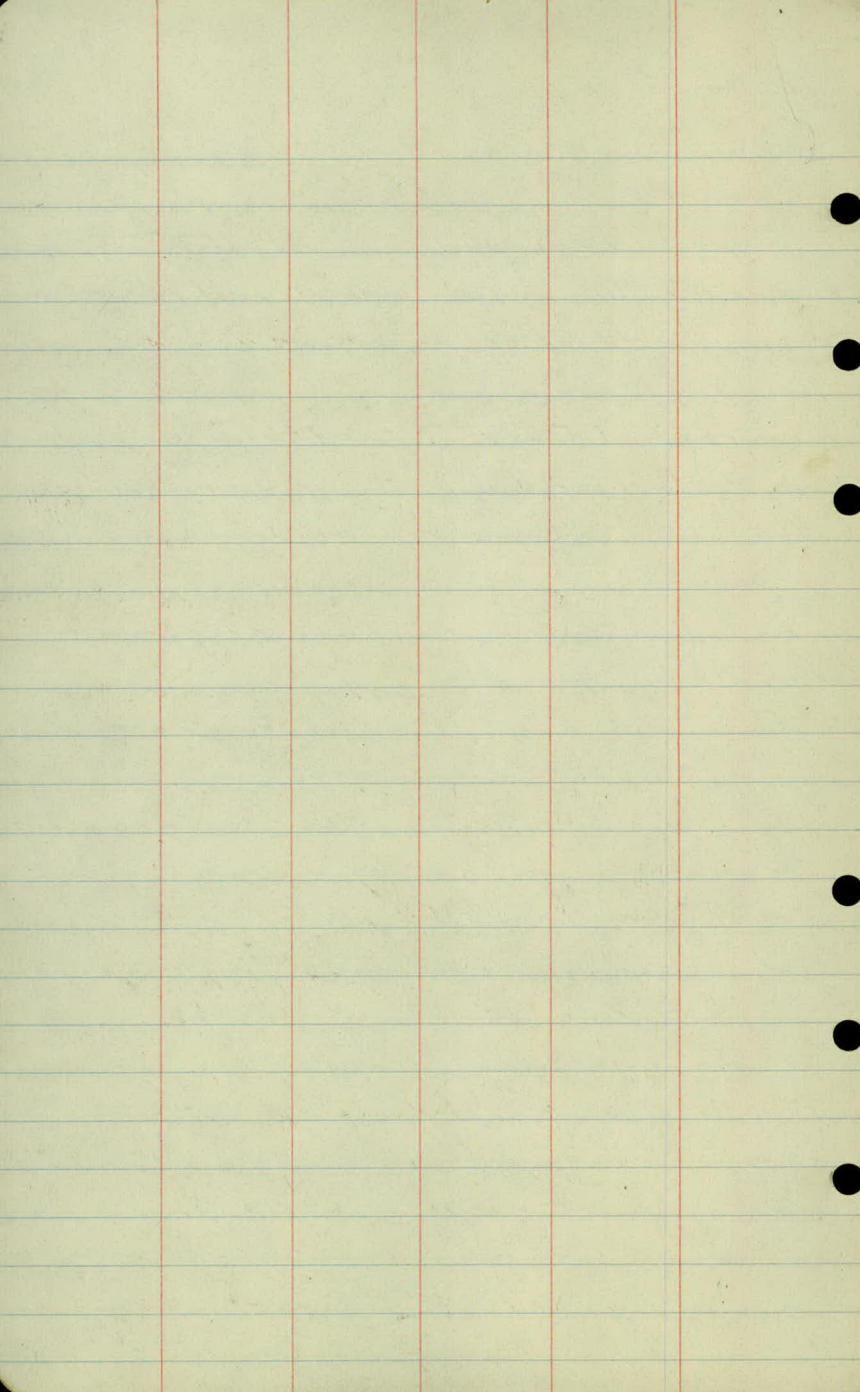
+ T - Elev

B.M 9.91 962.75 952.84

B.M 5.80 956.95 957.19

Spk in 15" Oak 120' Rt Sta 59+00
Min. State Highway Dept New
#36 West of Cleveland -

Spk in P.P 30 Lt Sta 67+35
Ramsey Co Data



Sta 7+95 Lt. - No Culv reqd.

✓ 8+56 ✓ ✓ ✓ ✓

✓ 9+70 ✓ ✓ ✓ ✓

24+64 ♀ ~~Extend~~ O.K. Leave

26+82 ♀ ~~Extend~~ ✓ ✓

29+12 Rt - Rem - Pl 15x20

32+35 Rt - Rem - No Culv reqd

34+15 Lt - Rem No ✓ ✓

34+43 Rt. ✓ - Repl 15x20 from

32+35 Rt.

34+94 Rt. Rem - Repl. 15x20
from 34+15 Lt.

35+98 Rt - Rem Pl 15x20

36+30 Rt ✓ ✓ 15x20

37+65 Rt ^{Inp 12x20 CM.} ✓ 15x20

38+28 ^{Inp 12x18 CM.} ✓ 15x20

41+00 ✓ ✓ & Replace

45+50 ♀ No Culv Reqd.

47+36 Rt ✓ ✓ ✓

55+28 ♀ check on Xsec O.K. if lg. _{enough}

60+60 ♀ ✓ ✓ ✓

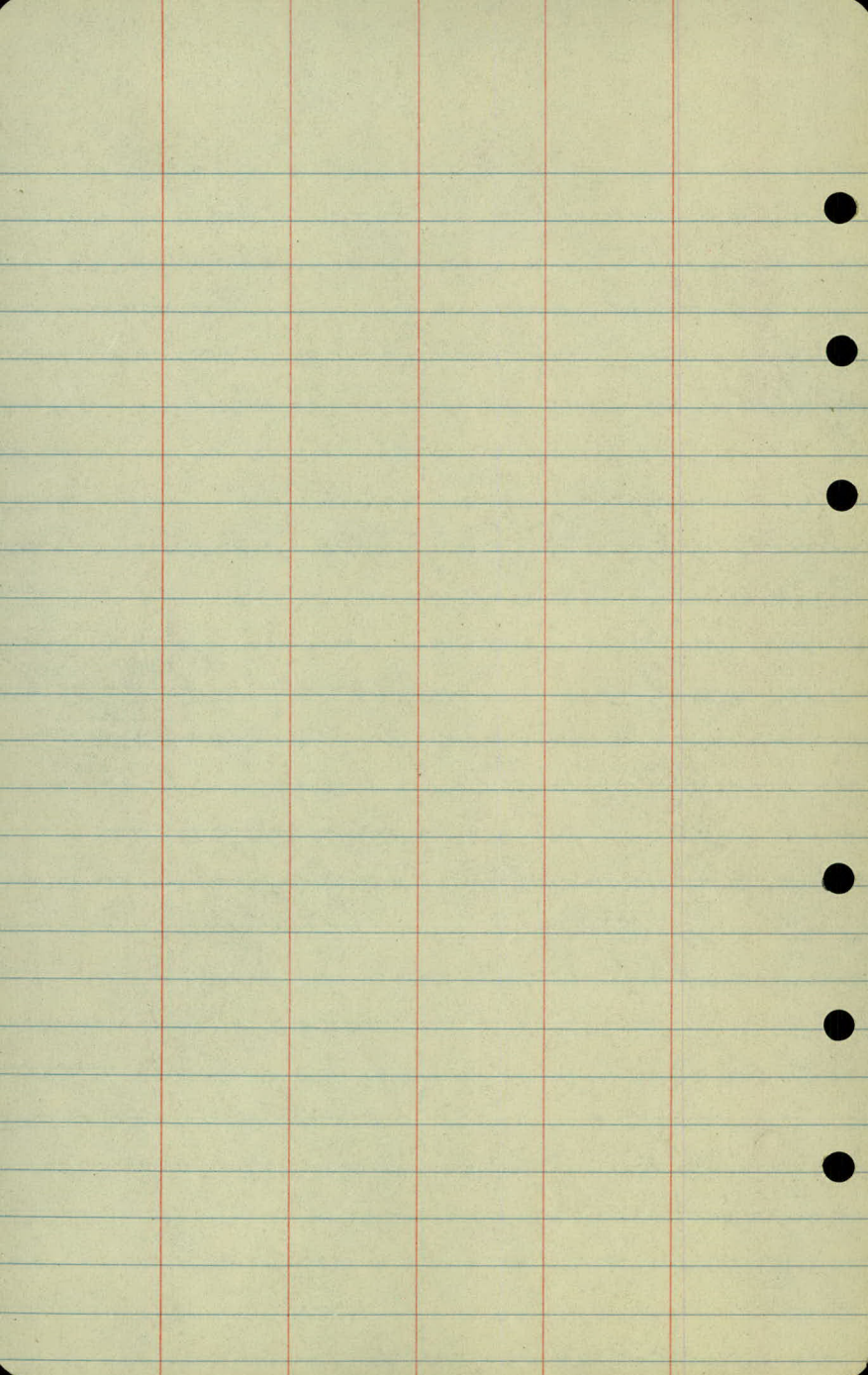
64+08 Rt Rem + Repl

65+72 Lt ✓ ✓ ✓

71+14 Lt Rem no. c'ly reqd.

75+69 Rt. Rem + Repl

77+63 ♀ - Extend



Grubbing

6-5tps Co. Rd. A $\approx$ East

3 - Co. Rd "B." -

Clearing -

1-12" Tree A $\approx$ N.E. Cor

Co. Rd "B" - East

24" C.M. 30' So. 30' No - 196.5'

