

Dr. 11A - Bk. 20

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

PLAN Survey

SPRING LAKE PARK ROAD

From Spring Lake To Co. Rd. J

Road Acc't. No.

Date Filed 12-23-38

File

M.V. Twp

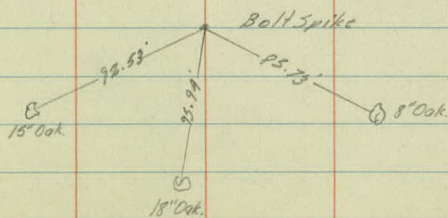
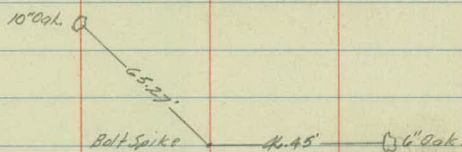
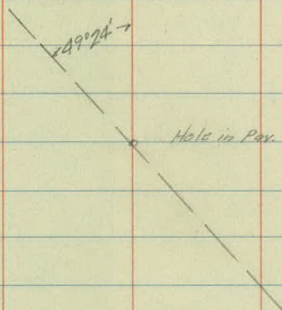
Alignment
Spring Lake Park Rd

Sta.	Point	Δ Lt	Δ Rt
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19	+51.70	P.O.T.	= ϕ S.T.H * 10
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7	42.95	P.O.T.	
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3	+00.45	P.O.T.	
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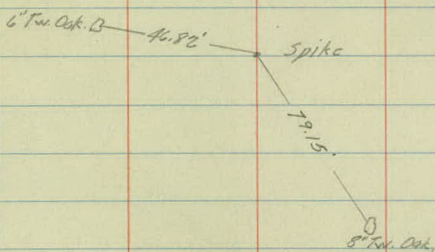
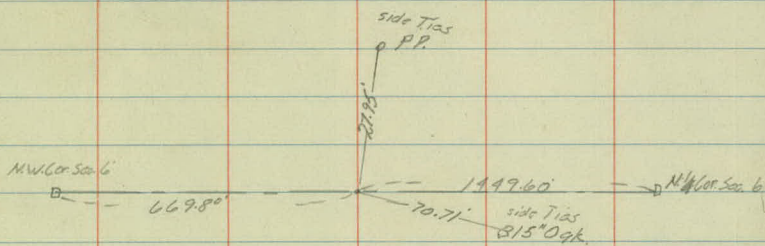


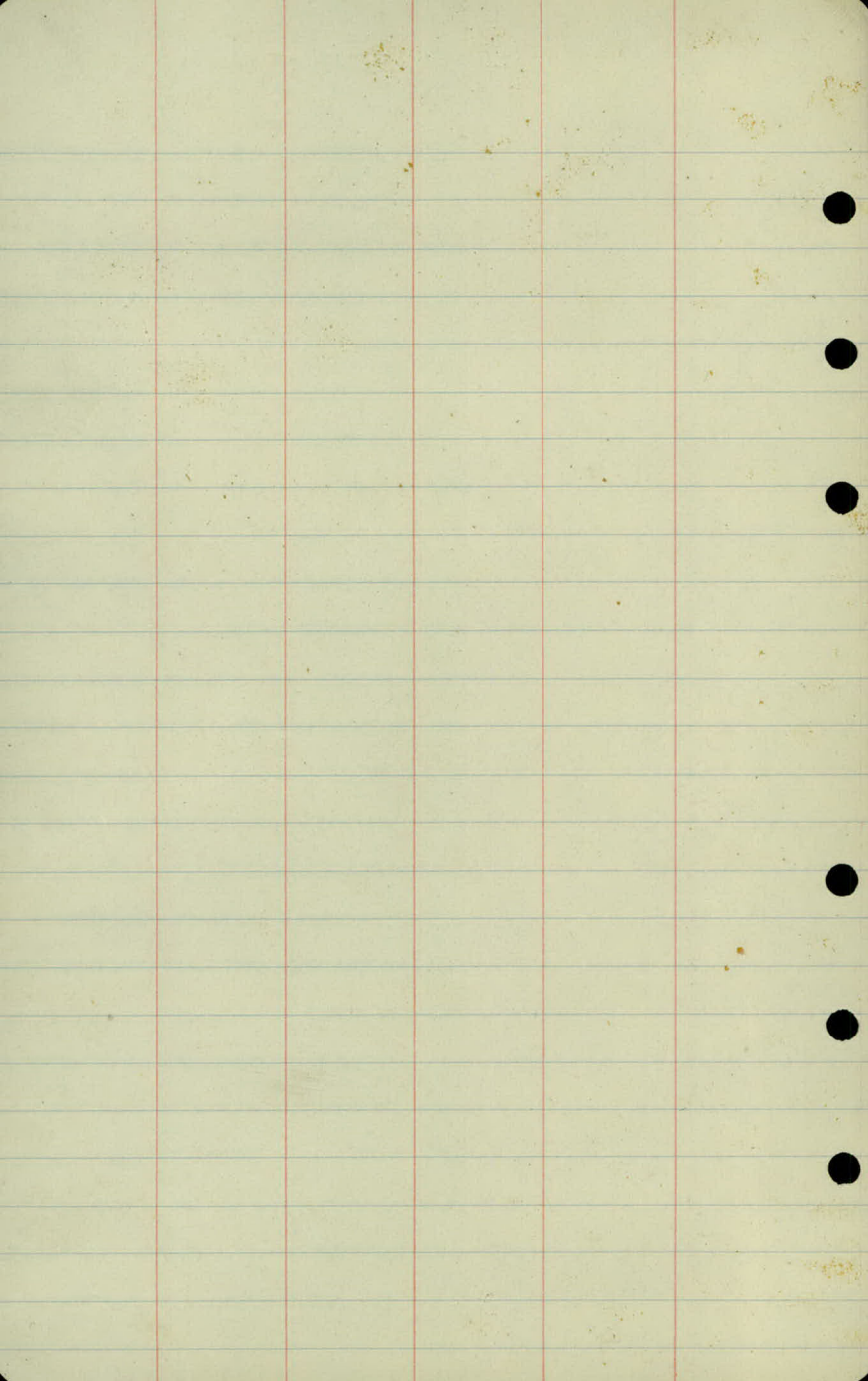
Sta.	Point	Alt.	Δ Pt.
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56	+21.30		
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		"K. Co. Rd. "J"	
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33	+00	P.O.T.	
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Topography

5

4

3

2

1

0.100

6/27/58
 R.A.
 L.G.
 R.P.

+50-85'

15'

12'

Oak Woods

Oak Woods

11'

8'

11'

9'

+50-Beg. Woods-16'

+96-Trees-13'

+108-Beg Woods-13'

+10-Tree Line-16-35

+88-Ent.

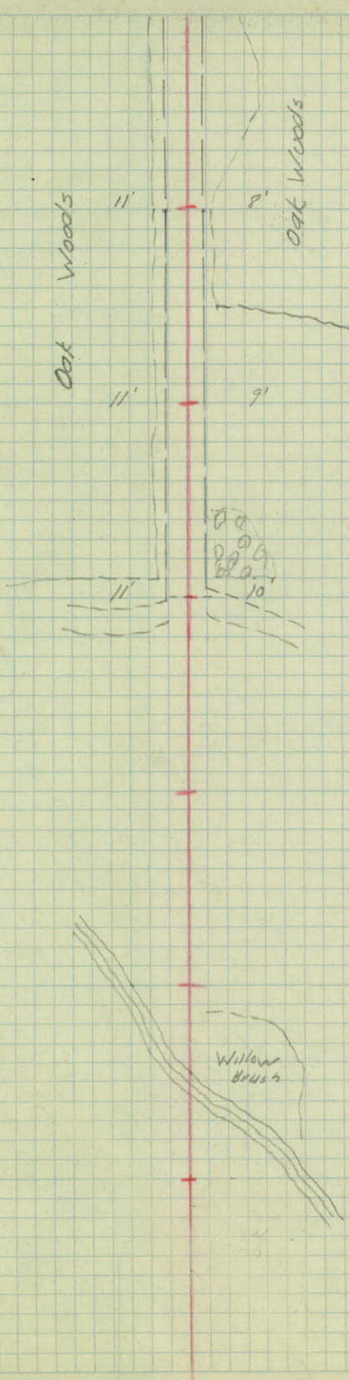
+95-Ent. Rt.

+39-18" Oak-29'

Lake-30'

+52-Edge Lake-00'

Willow
Brush



12

11

10

9

8

7

6

f36-PR-23'

18'

4'

12'

f42-PR-Cor. 28' Ho. - 170' x E Co. 2'

f05-End

f95-PR-23'-Fz. 28'

18'

5'

16'

f98-GR-18'

f91-End Woods.

23'

16'

5'

12'

22'

14'

7'

12'

f50-80'

f30-PR-Ld.

19'

12'

8'

12'



f40-PR-Cor. Ho. - 99'

17'

12'

9'

18'

20'

12'

8'

28'

Woods.

Woods.

Oak

Oak.

19

18

17

16

15

14

13

+92-RR-23'



+40-5 E. Con. Ho.-27'
+28-Ent.

Ent. Cult. 2.7'

+92-RR-23'

Cult.

+37-Reg. Cult.-26'

+74-RR-23'

+13-RR-22'

Ho. 3. Co. Coc-28'

+43-Ent.

SW. Con. Store-3.7'
+92-8 Oak-19'-2.5'

+79-6" Oak-13'
+65-4" Oak-13'

+35-6" Oak-13'

+56-10" Oak-23'

+07-6" Oak-18'

+39-8" Oak-10'

Oak Woods.

18'

8'

12'

26

25

24

23

22

21

20

17'

+175 Ent.

Woods

10'

10'

Ent.

16'

13'

10'

Out Woods

16' - 40'

13'

9'

13'

+153-Ent/Cult. 13'

11'

10'

Pol hole

11'

10'

Cult.

+15-Edge Swamp-40

12'

12'

+30-P.P.-23'

15'

11'

+21 Beg Cult. - 15'
+02-Ent

33

32

31

30

29

28

27

29'

17'

1'

+35-8" Oak-13'

28'

17'

0.0

8'

19'

12'

4'

H0-180'

14'

15'

10'

10'

18'

15'

5'

14'

29'

16'

4'

13'

26'

13'

8'

11'

+14-5" Trip Oak-14'

22'

Woods

Woods

Oak

Oak

40

39

38

37

36

35

34

24'

9'

9'

End Pt. 21' By Woods 18'

24'



+31-5 W. Cor. Ho. - 100'

+20-Reg. Fc. 18'

+07-Ent.

+85 End Pt. 18' 16" Oak - 22'

+66-Reg. Fc. 18' Trunk 21'

25'

Woods

10'

2'

18'

11'

3'

18'

+50 Woods - 15'

Oak

Tree Line 7

15'

3'

Reg. Woods - 15'

+61-8" Oak - 9'

+80 - End Woods

15'

3'

Oak

25'

15'

1'

+18-6" Oak - 9'

+77-Ent.

+55-Ent.

+49-16" Oak - 8'

24'

15'

1'

+09-6" Oak - 6'

47

46

45

44

43

42

41

+57-Beg Woods-14'
+92-Ent.

+60-Beg Woods-24'
+50-Ent.

+67-PP-21'

+70-Beg Cult-30'

+23-Beg Cult-10'

+80-End Woods-20'

End Woods-18'

+40-PP-23'

14'

He. 150' 19'

+40-PP-23'
19'

16' Ent.

+82-PP-22'

+82-G.P.-13'

15'

12'

30'

54

53

52

51

50

49

48

+92-Ent

+77-End Woods-21'

25'

13'

7'

12'

Dark Woods

Woods

17'

13'

8'

12'

Dark

8'

11'

+14-Beg. Woods-15'

+71-Beg Woods-12'

+36-Ent.
+36-PP-22'

8'

12'

+36-Ent.
+25-End Cult-29'

Meadow

Cult

9'

11'

+71-PP-22'

+57-Beg Cult-26'

8'

12'

End Woods 24'

+72-End Woods-10'

Woods

Woods

15-18
30'

+97-SW Loc Ha-152'

+17-PP-22'
13'

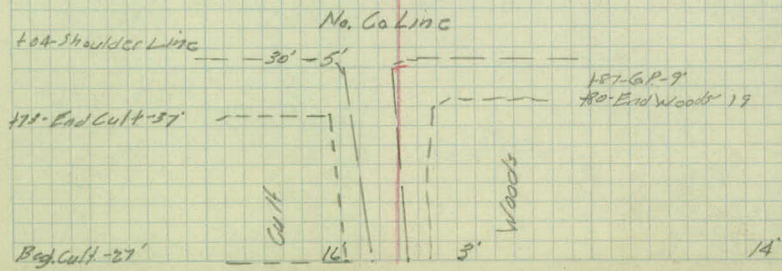
7'

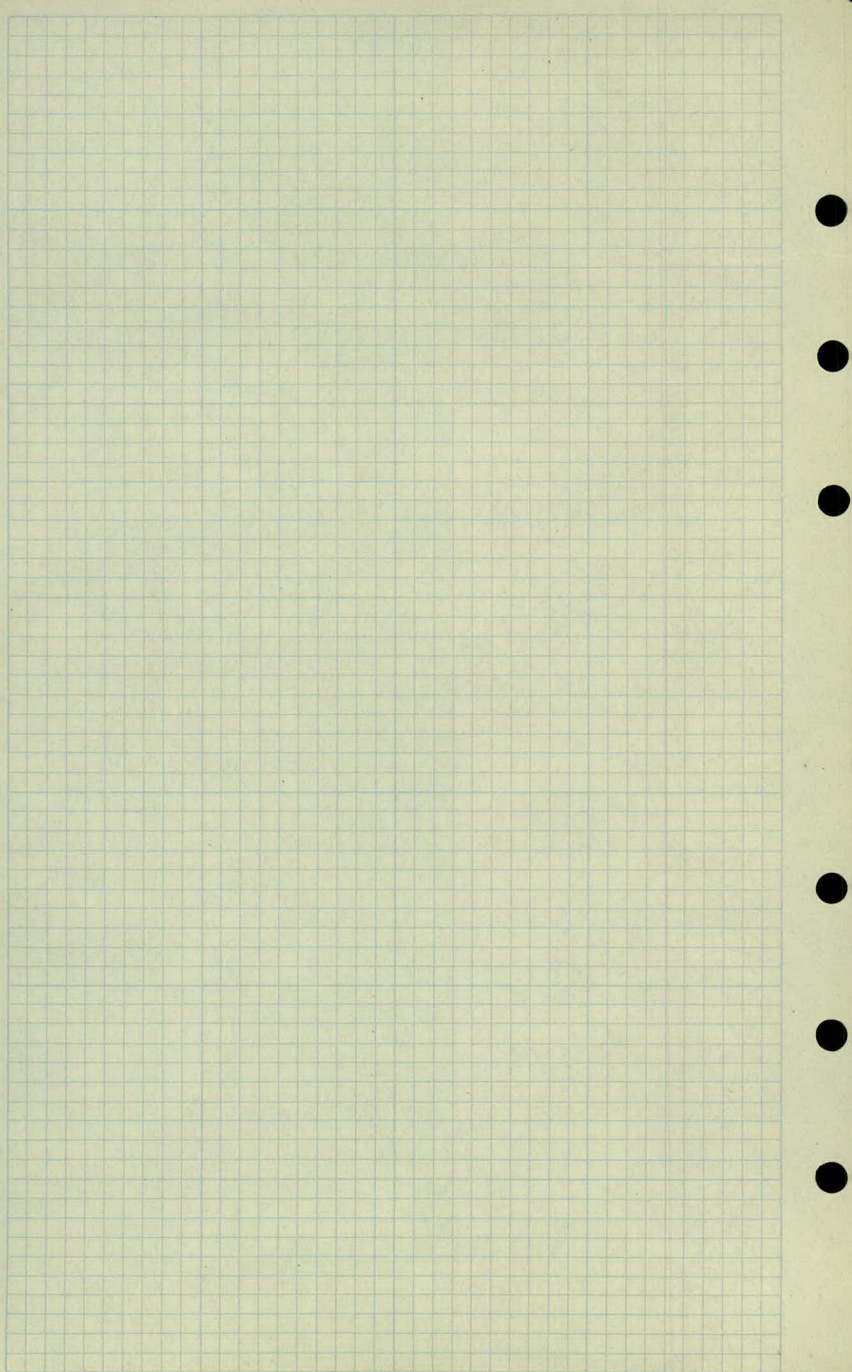
14'

20'

56

55





x sections

Sta.	+	A	-	Elev.
	1.41	910.00		908.39
			11.55	898.45.
1+00				98.6
+50				900.8
2				03.3
+40				08.7
B.M.	6.37	914.76 ✓		908.39
3				09.5
+50				09.9
4				10.1
+50				10.9
5				12.1
I.R.	9.69	921.63 ✓	2.77	911.99
+50				13.1

6/27/38
K.A.
L.C.
R.R.

Lt.

L

Rt.

Spk. in 15' Oak 24' Lt 2+34

Elk Water

$$\frac{115}{50}$$

$$\frac{114}{50}$$

$$\frac{95}{50}$$

$$\frac{106}{50}$$

$$\frac{101}{24}$$

$$\frac{92}{23}$$

$$\frac{85}{23}$$

$$\frac{72}{50}$$

$$\frac{80}{50}$$

$$\frac{74}{25}$$

$$\frac{67}{21}$$

$$\frac{51}{21}$$

$$\frac{32}{21}$$

$$\frac{32}{50}$$

$$\frac{98}{50}$$

$$\frac{23}{35}$$

$$\frac{22}{22}$$

$$\frac{13}{30}$$

$$\frac{15}{30}$$

$$\frac{18}{50}$$

Spk. in 15' Oak 24' Lt 2+34

$$\frac{55}{50}$$

$$\frac{56}{13}$$

$$\frac{53}{12}$$

$$\frac{58}{12}$$

$$\frac{55}{13}$$

$$\frac{57}{50}$$

$$\frac{61}{50}$$

$$\frac{56}{35}$$

$$\frac{50}{12}$$

$$\frac{54}{11}$$

$$\frac{49}{8}$$

$$\frac{53}{8}$$

$$\frac{97}{9}$$

$$\frac{47}{26}$$

$$\frac{26}{50}$$

$$\frac{60}{50}$$

$$\frac{57}{32}$$

$$\frac{51}{13}$$

$$\frac{54}{12}$$

$$\frac{47}{9}$$

$$\frac{50}{9}$$

$$\frac{46}{10}$$

$$\frac{43}{31}$$

$$\frac{40}{50}$$

$$\frac{50}{50}$$

$$\frac{48}{38}$$

$$\frac{42}{12}$$

$$\frac{45}{11}$$

$$\frac{39}{8}$$

$$\frac{43}{8}$$

$$\frac{38}{9}$$

$$\frac{35}{30}$$

$$\frac{34}{50}$$

$$\frac{36}{50}$$

$$\frac{35}{34}$$

$$\frac{30}{11}$$

$$\frac{25}{10}$$

$$\frac{27}{8}$$

$$\frac{26}{8}$$

$$\frac{27}{9}$$

$$\frac{23}{50}$$

$$\frac{93}{50}$$

$$\frac{88}{12}$$

$$\frac{92}{11}$$

$$\frac{85}{9}$$

$$\frac{92}{9}$$

$$\frac{87}{10}$$

$$\frac{89}{39}$$

$$\frac{90}{50}$$

Sta.	+	A	-	Elev
		921.63		
4				914.1
	+50			15.2
7				16.4
	+50			16.8
8				16.6 x
	+50			16.0
9				16.3
	+50			16.9
10				17.5 ✓
T.P.	5.84	923.05 ✓	4.12	917.51
	+50			18.1
11				18.2

Lt.

L.

Rt.

$$\frac{74}{50}$$

$$\frac{77}{15}$$

$$\frac{75}{8}$$

$$\frac{63}{9}$$

$$\frac{75}{24}$$

$$\frac{83}{50}$$

$$\frac{55}{50}$$

$$\frac{57}{33}$$

$$\frac{66}{19}$$

$$\frac{66}{12}$$

$$\frac{64}{9}$$

$$\frac{71}{10}$$

$$\frac{66}{33}$$

$$\frac{72}{50}$$

$$\frac{73}{50}$$

$$\frac{39}{50}$$

$$\frac{43}{33}$$

$$\frac{49}{19}$$

$$\frac{53}{12}$$

$$\frac{50}{8}$$

$$\frac{60}{9}$$

$$\frac{55}{31}$$

$$\frac{61}{50}$$

$$\frac{63}{50}$$

$$\frac{35}{50}$$

$$\frac{42}{32}$$

$$\frac{46}{12}$$

$$\frac{51}{11}$$

$$\frac{46}{2}$$

$$\frac{48}{9}$$

$$\frac{54}{10}$$

$$\frac{50}{33}$$

$$\frac{56}{50}$$

$$\frac{58}{50}$$

$$\frac{47}{50}$$

$$\frac{47}{31}$$

$$\frac{48}{14}$$

$$\frac{51}{13}$$

$$\frac{48}{3}$$

$$\frac{50}{8}$$

$$\frac{54}{9}$$

$$\frac{51}{32}$$

$$\frac{54}{50}$$

$$\frac{55}{50}$$

$$\frac{51}{50}$$

$$\frac{54}{36}$$

$$\frac{54}{14}$$

$$\frac{60}{13}$$

$$\frac{54}{7}$$

$$\frac{56}{8}$$

$$\frac{57}{9}$$

$$\frac{54}{32}$$

$$\frac{54}{50}$$

$$\frac{55}{50}$$

$$\frac{45}{50}$$

$$\frac{55}{37}$$

$$\frac{58}{14}$$

$$\frac{60}{13}$$

$$\frac{49}{4}$$

$$\frac{53}{7}$$

$$\frac{56}{8}$$

$$\frac{51}{27}$$

$$\frac{47}{50}$$

$$\frac{44}{50}$$

$$\frac{50}{50}$$

$$\frac{49}{16}$$

$$\frac{54}{15}$$

$$\frac{44}{7}$$

$$\frac{47}{6}$$

$$\frac{51}{7}$$

$$\frac{44}{36}$$

$$\frac{49}{50}$$

$$\frac{39}{50}$$

$$\frac{39}{50}$$

$$\frac{44}{50}$$

$$\frac{45}{35}$$

$$\frac{43}{16}$$

$$\frac{48}{15}$$

$$\frac{48}{8}$$

$$\frac{41}{5}$$

$$\frac{42}{6}$$

$$\frac{38}{30}$$

$$\frac{35}{50}$$

$$\frac{45}{50}$$

$$\frac{49}{50}$$

$$\frac{51}{33}$$

$$\frac{49}{17}$$

$$\frac{54}{16}$$

$$\frac{46}{5}$$

$$\frac{50}{5}$$

$$\frac{52}{6}$$

$$\frac{47}{25}$$

$$\frac{51}{50}$$

$$\frac{51}{50}$$

$$\frac{45}{50}$$

$$\frac{46}{26}$$

$$\frac{49}{17}$$

$$\frac{46}{6}$$

$$\frac{49}{9}$$

$$\frac{51}{5}$$

$$\frac{46}{27}$$

$$\frac{49}{50}$$

$$\frac{52}{50}$$

$$\frac{52}{50}$$

Sta	+	+	-	Elev.
		92305		
11	+50			917.7
12				17.6
	+50			17.9
13				18.0
	+50			17.9
14				17.6
	+50			16.4
15				15.6
T.P.	497	919.07 ✓	8.95	914.10 ✓
	+50			14.8
16				14.1
	+50			13.1

14.

2.

12.

$$\frac{50}{58} \frac{50}{40} \frac{51}{19} \quad \frac{55}{18} \frac{49}{8} \frac{54}{4} \frac{55}{5} \frac{51}{5} \quad \frac{49}{32} \frac{57}{50}$$

$$\frac{56}{50} \frac{55}{31} \frac{54}{18} \quad \frac{58}{17} \frac{52}{6} \frac{55}{4} \frac{57}{5} \frac{53}{5} \quad \frac{59}{32} \frac{63}{50}$$

$$L.O. \quad \frac{50}{59} \frac{50}{17} \quad \frac{54}{16} \frac{48}{7} \frac{52}{4} \frac{54}{5} \frac{51}{6} \quad \frac{55}{29} \frac{57}{50}$$

$$L.O. \quad \frac{48}{31} \frac{48}{17} \quad \frac{52}{16} \frac{48}{6} \frac{51}{4} \frac{53}{6} \frac{50}{7} \quad \frac{51}{33} \frac{53}{50}$$

$$L.O. \quad \frac{51}{31} \frac{51}{16} \quad \frac{54}{15} \frac{49}{6} \frac{52}{5} \frac{56}{5} \frac{50}{6} \quad \frac{51}{29} \frac{52}{50}$$

$$\frac{51}{50} \frac{49}{38} \frac{51}{17} \quad \frac{54}{16} \frac{51}{6} \frac{55}{4} \frac{58}{5} \frac{53}{5} \quad \frac{56}{23} \frac{59}{50}$$

$$\frac{58}{50} \frac{61}{17} \frac{61}{7} \frac{67}{4} \frac{69}{5} \frac{65}{5} \quad \frac{69}{27} \frac{77}{50}$$

$$\frac{72}{50} \frac{71}{37} \frac{72}{17} \quad \frac{77}{16} \frac{73}{7} \frac{75}{4} \frac{80}{5} \frac{75}{6} \quad \frac{83}{38} \frac{84}{50}$$

$$\frac{40}{50} \frac{40}{39} \frac{40}{17} \quad \frac{44}{16} \frac{57}{7} \frac{43}{5} \frac{45}{5} \frac{40}{6} \quad \frac{40}{20} \frac{40}{50}$$

$$\frac{54}{50} \frac{50}{19} \quad \frac{53}{18} \frac{46}{8} \frac{50}{5} \frac{51}{5} \frac{45}{4} \quad \frac{45}{50}$$

$$\frac{63}{50} \quad \frac{59}{20} \frac{57}{9} \frac{60}{2} \frac{60}{9} \frac{55}{9} \quad \frac{59}{28} \frac{54}{50}$$

Sta	+	X	-	Elev.
		✓		91207.
17				912.9 .
	+50			13.0 .
18				13.3 .
	+67			14.2 .
B.M.			2.73	916.34 . 916.35
	+88			12.5 .
19				11.8 .
	+16			11.3 .
	+34	No Soot		12.0 .
T.P.	0.66	91672 . ✓	7.01	91206 . ✓
	+69	No Soot		11.88 .
	+77			11.6 .
	+91			09.9 .

Lt

R

Rt

$\frac{58}{50}$	$\frac{59}{28}$	$\frac{60}{19}$	$\frac{61}{7}$	$\frac{62}{4}$	$\frac{64}{5}$	$\frac{59}{5}$	$\frac{60}{28}$	$\frac{60}{50}$
-----------------	-----------------	-----------------	----------------	----------------	----------------	----------------	-----------------	-----------------

$\frac{57}{50}$	$\frac{56}{20}$	$\frac{60}{19}$	$\frac{58}{10}$	$\frac{61}{4}$	$\frac{64}{5}$	$\frac{60}{5}$	$\frac{63}{25}$	$\frac{61}{50}$
-----------------	-----------------	-----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------

$\frac{45}{50}$	$\frac{52}{21}$	$\frac{54}{26}$	$\frac{53}{8}$	$\frac{51}{5}$	$\frac{61}{5}$	$\frac{57}{6}$	$\frac{53}{35}$
-----------------	-----------------	-----------------	----------------	----------------	----------------	----------------	-----------------

$\frac{40}{50}$	$\frac{40}{40}$	$\frac{45}{14}$	$\frac{50}{16}$	$\frac{47}{6}$	$\frac{47}{6}$	$\frac{50}{6}$	$\frac{45}{7}$	$\frac{46}{24}$	$\frac{85}{50}$
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Spk in 4" Tue Oct 66 L.A. 18+70

$\frac{45}{50}$	$\frac{46}{35}$	$\frac{46}{17}$	$\frac{43}{14}$	$\frac{65}{7}$	$\frac{66}{7}$	$\frac{69}{11}$	$\frac{96}{27}$	$\frac{88}{38}$	$\frac{71}{48}$	$\frac{71}{50}$
-----------------	-----------------	-----------------	-----------------	----------------	----------------	-----------------	-----------------	-----------------	-----------------	-----------------

$\frac{50}{50}$	$\frac{56}{39}$	$\frac{50}{28}$	$\frac{50}{18}$	$\frac{72}{13}$	$\frac{73}{13}$	$\frac{76}{17}$	$\frac{85}{25}$	$\frac{73}{34}$	$\frac{695}{99}$
-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	------------------

Rev

$\frac{66}{50}$	$\frac{74}{39}$	$\frac{81}{16}$	$\frac{78}{16}$	$\frac{702}{22}$
-----------------	-----------------	-----------------	-----------------	------------------

$\frac{75}{50}$	$\frac{83}{42}$	$\frac{80}{22}$	$\frac{710}{22}$
-----------------	-----------------	-----------------	------------------

Top & Rev.

$\frac{484}{15}$	$\frac{05}{15}$	$\frac{29}{35}$	$\frac{35}{50}$
------------------	-----------------	-----------------	-----------------

$\frac{890}{12}$	$\frac{11}{15}$	$\frac{28}{40}$	$\frac{35}{50}$	$\frac{23}{50}$
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$\frac{0.96}{33}$	$\frac{12}{19}$	$\frac{28}{11}$	$\frac{32}{22}$	$\frac{35}{22}$	$\frac{23}{33}$	$\frac{20}{50}$
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Sta. + π - Elev.

912.22 .

20 +21

909.1 .

+50

08.4 .

21

07.5 .

+50

07.0 .

22

07.3 .

+50

07.7 .

23

08.1 .

+50

08.4 .

24

08.8 .

+50

09.2 .

25

09.9 ✓

T.P.

6.41

916.26 ✓

287

909.85

6/28/38

K.B.

L.C.

R.D.

Lt

E

Rt.

$\frac{15}{50}$	$\frac{38}{28}$	$\frac{36}{14}$	$\frac{41}{18}$	$\frac{36}{12}$	$\frac{37}{12}$	$\frac{32}{18}$	$\frac{32}{23}$	$\frac{28}{50}$
-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------

$\frac{49}{50}$	$\frac{48}{37}$	$\frac{46}{18}$	$\frac{50}{12}$	$\frac{43}{12}$	$\frac{44}{12}$	$\frac{38}{18}$	$\frac{36}{38}$	$\frac{32}{50}$
-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------

$\frac{60}{50}$	$\frac{60}{31}$	$\frac{57}{12}$	$\frac{61}{11}$	$\frac{52}{11}$	$\frac{54}{11}$	$\frac{48}{12}$	$\frac{46}{27}$	$\frac{38}{50}$
-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------

$\frac{75}{100}$	$\frac{69}{50}$	$\frac{63}{32}$	$\frac{61}{12}$	$\frac{57}{11}$	$\frac{59}{11}$	$\frac{53}{11}$	$\frac{47}{24}$	$\frac{40}{50}$
------------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------

$\frac{82}{150}$	$\frac{79}{100}$	$\frac{64}{50}$	$\frac{61}{29}$	$\frac{59}{12}$	$\frac{63}{11}$	$\frac{54}{11}$	$\frac{56}{9}$	$\frac{50}{10}$	$\frac{44}{24}$	$\frac{37}{50}$
------------------	------------------	-----------------	-----------------	-----------------	-----------------	-----------------	----------------	-----------------	-----------------	-----------------

$\frac{61}{50}$	$\frac{56}{30}$	$\frac{56}{13}$	$\frac{50}{10}$	$\frac{52}{10}$	$\frac{46}{11}$	$\frac{42}{23}$	$\frac{35}{50}$
-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------

$\frac{62}{50}$	$\frac{57}{29}$	$\frac{51}{12}$	$\frac{55}{11}$	$\frac{46}{10}$	$\frac{47}{10}$	$\frac{41}{11}$	$\frac{38}{33}$	$\frac{24}{50}$
-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------

$\frac{60}{50}$	$\frac{54}{34}$	$\frac{48}{12}$	$\frac{52}{11}$	$\frac{43}{10}$	$\frac{44}{10}$	$\frac{39}{11}$	$\frac{29}{22}$	$\frac{20}{50}$
-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------

$\frac{48}{50}$	$\frac{46}{26}$	$\frac{44}{18}$	$\frac{48}{12}$	$\frac{39}{12}$	$\frac{40}{9}$	$\frac{36}{10}$	$\frac{26}{28}$	$\frac{15}{50}$
-----------------	-----------------	-----------------	-----------------	-----------------	----------------	-----------------	-----------------	-----------------

$\frac{43}{50}$	$\frac{42}{40}$	$\frac{38}{18}$	$\frac{42}{12}$	$\frac{35}{12}$	$\frac{36}{9}$	$\frac{31}{10}$	$\frac{24}{33}$	$\frac{20}{50}$
-----------------	-----------------	-----------------	-----------------	-----------------	----------------	-----------------	-----------------	-----------------

$\frac{40}{50}$	$\frac{36}{28}$	$\frac{32}{14}$	$\frac{38}{18}$	$\frac{28}{12}$	$\frac{23}{9}$	$\frac{26}{10}$	$\frac{23}{34}$	$\frac{20}{50}$
-----------------	-----------------	-----------------	-----------------	-----------------	----------------	-----------------	-----------------	-----------------

Sta + A - Elev.

916.26

25 +50

910.4

26

10.9

+50

11.5

27

12.0

+50

11.6

28

11.2

+50

11.3

29

11.3

+50

11.6

30

12.1 ✓

T.P.

8.21

920.90

8.57

912.67

+50

Lt

L

Rt

 $\frac{64}{50}$ $\frac{61}{13}$ $\frac{65}{12}$ $\frac{59}{10}$ $\frac{62}{9}$ $\frac{58}{10}$ $\frac{59}{24}$ $\frac{56}{50}$
 $\frac{54}{50}$ $\frac{53}{35}$ $\frac{55}{11}$ $\frac{59}{10}$ $\frac{54}{10}$ $\frac{58}{11}$ $\frac{55}{40}$ $\frac{54}{50}$
 $\frac{50}{50}$ $\frac{47}{31}$ $\frac{47}{11}$ $\frac{52}{10}$ $\frac{48}{10}$ $\frac{50}{11}$ $\frac{47}{31}$ $\frac{48}{50}$
 $\frac{47}{58}$ $\frac{47}{28}$ $\frac{43}{8}$ $\frac{46}{7}$ $\frac{43}{10}$ $\frac{48}{11}$ $\frac{44}{38}$ $\frac{46}{50}$
 $\frac{49}{50}$ $\frac{45}{31}$ $\frac{46}{8}$ $\frac{50}{7}$ $\frac{47}{11}$ $\frac{51}{12}$ $\frac{47}{33}$ $\frac{51}{50}$
 $\frac{48}{50}$ $\frac{48}{6}$ $\frac{51}{15}$ $\frac{49}{28}$ $\frac{51}{50}$
 $\frac{45}{50}$ $\frac{45}{23}$ $\frac{45}{5}$ $\frac{49}{9}$ $\frac{50}{5}$ $\frac{47}{16}$ $\frac{51}{35}$ $\frac{53}{50}$
 $\frac{47}{50}$ $\frac{47}{7}$ $\frac{50}{7}$ $\frac{50}{14}$ $\frac{53}{15}$ $\frac{50}{38}$ $\frac{59}{50}$
 $\frac{47}{50}$ $\frac{47}{30}$ $\frac{46}{8}$ $\frac{50}{7}$ $\frac{47}{5}$ $\frac{47}{19}$ $\frac{49}{27}$ $\frac{59}{50}$
 $\frac{45}{50}$ $\frac{44}{35}$ $\frac{43}{11}$ $\frac{42}{20}$ $\frac{45}{11}$ $\frac{40}{12}$ $\frac{45}{21}$ $\frac{46}{50}$
 $\frac{86}{50}$ $\frac{86}{30}$ $\frac{83}{12}$ $\frac{89}{11}$ $\frac{86}{7}$ $\frac{88}{8}$ $\frac{89}{25}$ $\frac{87}{50}$

Sta	+	π	-	Elev
		920.90		
31				912.0
	+50			12.3
32				13.2
	+50			14.0
33				14.9
	+50			15.5
34				15.2
	+50			14.0
35				13.7
T.P.	5.79	919.49	7.20	913.70
	+50			13.9
36				14.4

Lt.

E

Rt.

$\frac{81}{50}$	$\frac{82}{37}$	$\frac{89}{19}$	$\frac{88}{12}$	$\frac{84}{4}$	$\frac{85}{9}$	$\frac{88}{9}$	$\frac{86}{5}$	$\frac{89}{31}$	$\frac{95}{50}$
-----------------	-----------------	-----------------	-----------------	----------------	----------------	----------------	----------------	-----------------	-----------------

$\frac{76}{50}$	$\frac{77}{35}$	$\frac{79}{16}$	$\frac{84}{15}$	$\frac{81}{7}$	$\frac{86}{1}$	$\frac{85}{2}$	$\frac{82}{2}$	$\frac{89}{20}$	$\frac{90}{50}$
-----------------	-----------------	-----------------	-----------------	----------------	----------------	----------------	----------------	-----------------	-----------------

$\frac{70}{50}$	$\frac{71}{35}$	$\frac{72}{19}$	$\frac{75}{18}$	$\frac{73}{9}$	$\frac{76}{1}$	$\frac{73}{1}$	$\frac{75}{24}$	$\frac{78}{50}$
-----------------	-----------------	-----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------

$\frac{63}{50}$	$\frac{64}{38}$	$\frac{64}{17}$	$\frac{67}{16}$	$\frac{68}{7}$	$\frac{69}{2}$	$\frac{69}{3}$	$\frac{67}{37}$	$\frac{68}{50}$
-----------------	-----------------	-----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------

$\frac{54}{50}$	$\frac{53}{31}$	$\frac{54}{18}$	$\frac{59}{17}$	$\frac{54}{7}$	$\frac{60}{2}$	$\frac{68}{3}$	$\frac{59}{25}$	$\frac{61}{50}$
-----------------	-----------------	-----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------

$\frac{45}{50}$	$\frac{45}{35}$	$\frac{47}{18}$	$\frac{50}{17}$	$\frac{48}{8}$	$\frac{54}{1}$	$\frac{54}{2}$	$\frac{51}{26}$	$\frac{56}{50}$
-----------------	-----------------	-----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------

$\frac{46}{50}$	$\frac{50}{34}$	$\frac{51}{18}$	$\frac{56}{17}$	$\frac{51}{8}$	$\frac{57}{1}$	$\frac{57}{2}$	$\frac{53}{26}$	$\frac{57}{50}$
-----------------	-----------------	-----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------

$\frac{64}{50}$	$\frac{67}{23}$	$\frac{69}{17}$	$\frac{65}{7}$	$\frac{69}{2}$	$\frac{69}{3}$	$\frac{64}{30}$	$\frac{60}{30}$	$\frac{59}{50}$
-----------------	-----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------	-----------------

$\frac{77}{100}$	$\frac{76}{78}$	$\frac{75}{50}$	$\frac{78}{17}$	$\frac{70}{7}$	$\frac{72}{2}$	$\frac{72}{3}$	$\frac{68}{27}$	$\frac{60}{50}$
------------------	-----------------	-----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------

$\frac{61}{50}$	$\frac{57}{16}$	$\frac{61}{15}$	$\frac{54}{2}$	$\frac{56}{3}$	$\frac{55}{4}$	$\frac{51}{89}$	$\frac{50}{50}$
-----------------	-----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------

$\frac{51}{50}$	$\frac{50}{35}$	$\frac{49}{16}$	$\frac{53}{15}$	$\frac{48}{6}$	$\frac{51}{3}$	$\frac{52}{4}$	$\frac{49}{30}$	$\frac{53}{50}$
-----------------	-----------------	-----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------

Sta.	+	Δ	-	Elev.
		919.49		
36	+50			915.2
37				14.2
	+50			12.2
38				11.7
	+50			13.0
39				15.1
T.P.	4.25	919.37 ✓	4.37	915.12 ✓
	+50			16.3
40				15.4
	+50			14.9
41				14.8
	+50			14.3

Lt.

2

Rt.

$$\frac{37}{50} \frac{36}{35} \frac{37}{15} \frac{43}{14} \frac{38}{6} \frac{43}{3} \frac{46}{3} \frac{42}{4} \frac{49}{26} \frac{53}{50}$$

$$\frac{39}{50} \frac{41}{35} \frac{44}{15} \frac{50}{15} \frac{46}{6} \frac{53}{3} \frac{59}{4} \frac{51}{9} \frac{56}{29} \frac{63}{50}$$

$$\frac{54}{50} \frac{59}{32} \frac{66}{12} \frac{70}{11} \frac{69}{4} \frac{73}{6} \frac{74}{6} \frac{80}{25} \frac{87}{50}$$

$$\frac{66}{50} \frac{68}{35} \frac{74}{12} \frac{77}{11} \frac{74}{3} \frac{78}{7} \frac{80}{50} \frac{88}{15}$$

$$\frac{53}{50} \frac{55}{32} \frac{68}{15} \frac{63}{12} \frac{61}{4} \frac{65}{2} \frac{66}{3} \frac{68}{23} \frac{71}{50}$$

$$\frac{57}{50} \frac{40}{24} \frac{42}{12} \frac{45}{11} \frac{44}{3} \frac{46}{7} \frac{48}{28} \frac{51}{50}$$

$$\frac{23}{50} \frac{24}{31} \frac{30}{11} \frac{35}{10} \frac{31}{8} \frac{38}{20} \frac{37}{20} \frac{36}{50}$$

$$\frac{22}{50} \frac{28}{26} \frac{35}{10} \frac{39}{9} \frac{38}{9} \frac{43}{9} \frac{41}{10} \frac{43}{20} \frac{46}{50}$$

$$\frac{39}{50} \frac{35}{25} \frac{41}{8} \frac{43}{7} \frac{45}{11} \frac{49}{11} \frac{53}{28} \frac{62}{50}$$

$$\frac{31}{50} \frac{36}{26} \frac{43}{7} \frac{46}{3} \frac{45}{5} \frac{52}{11} \frac{48}{12} \frac{56}{34} \frac{61}{50}$$

$$\frac{39}{50} \frac{44}{24} \frac{47}{7} \frac{52}{6} \frac{51}{3} \frac{48}{3} \frac{55}{12} \frac{60}{23} \frac{66}{50}$$

Sta.	+	X	-	Elev.
		919.37 ✓		
42				913.8
	+50			12.7
B.M.	4.60	918.51 ✓	5.46	913.91
				913.92
43				12.1
	+50			12.1
44				13.1
	+50			13.7
45				13.8
	+50			13.2
46				11.5
	+70			09.0
47				09.4

Lt.

Z

Rt

$\frac{51}{50}$	$\frac{54}{24}$	$\frac{55}{9}$	$\frac{60}{8}$	$\frac{56}{9}$	$\frac{62}{9}$	$\frac{58}{10}$	$\frac{67}{31}$	$\frac{79}{50}$
-----------------	-----------------	----------------	----------------	----------------	----------------	-----------------	-----------------	-----------------

$\frac{55}{50}$	$\frac{59}{30}$	$\frac{64}{9}$	$\frac{67}{8}$	$\frac{67}{8}$	$\frac{72}{8}$	$\frac{78}{31}$	$\frac{80}{50}$	$\frac{93}{100}$	→
-----------------	-----------------	----------------	----------------	----------------	----------------	-----------------	-----------------	------------------	---

Spk in P.R 22 Lt 42+02

$\frac{41}{50}$	$\frac{53}{26}$	$\frac{63}{10}$	$\frac{64}{9}$	$\frac{67}{9}$	$\frac{70}{23}$	$\frac{75}{50}$	→
-----------------	-----------------	-----------------	----------------	----------------	-----------------	-----------------	---

$\frac{49}{50}$	$\frac{52}{32}$	$\frac{58}{18}$	$\frac{62}{11}$	$\frac{60}{9}$	$\frac{64}{6}$	$\frac{65}{35}$	$\frac{72}{50}$	$\frac{79}{50}$
-----------------	-----------------	-----------------	-----------------	----------------	----------------	-----------------	-----------------	-----------------

$\frac{51}{50}$	$\frac{50}{38}$	$\frac{52}{12}$	$\frac{56}{11}$	$\frac{52}{9}$	$\frac{54}{9}$	$\frac{56}{4}$	$\frac{53}{7}$	$\frac{58}{25}$	$\frac{61}{50}$
-----------------	-----------------	-----------------	-----------------	----------------	----------------	----------------	----------------	-----------------	-----------------

$\frac{59}{50}$	$\frac{49}{33}$	$\frac{49}{12}$	$\frac{48}{9}$	$\frac{50}{9}$	$\frac{51}{27}$	$\frac{51}{50}$
-----------------	-----------------	-----------------	----------------	----------------	-----------------	-----------------

$\frac{51}{50}$	$\frac{50}{30}$	$\frac{48}{9}$	$\frac{53}{8}$	$\frac{47}{9}$	$\frac{52}{9}$	$\frac{47}{10}$	$\frac{48}{27}$	$\frac{49}{50}$
-----------------	-----------------	----------------	----------------	----------------	----------------	-----------------	-----------------	-----------------

$\frac{56}{50}$	$\frac{53}{27}$	$\frac{53}{8}$	$\frac{58}{7}$	$\frac{53}{7}$	$\frac{58}{10}$	$\frac{54}{11}$	$\frac{52}{27}$	$\frac{56}{50}$
-----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------	-----------------	-----------------

$\frac{71}{50}$	$\frac{72}{29}$	$\frac{73}{10}$	$\frac{76}{9}$	$\frac{70}{9}$	$\frac{68}{9}$	$\frac{70}{11}$	$\frac{69}{30}$	$\frac{67}{50}$
-----------------	-----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------	-----------------

$\frac{95}{50}$	$\frac{96}{32}$	$\frac{96}{8}$	$\frac{100}{7}$	$\frac{95}{7}$	$\frac{101}{12}$	$\frac{100}{29}$	$\frac{99}{50}$
-----------------	-----------------	----------------	-----------------	----------------	------------------	------------------	-----------------

$\frac{92}{50}$	$\frac{91}{36}$	$\frac{93}{9}$	$\frac{96}{8}$	$\frac{91}{7}$	$\frac{91}{9}$	$\frac{96}{9}$	$\frac{103}{15}$	$\frac{96}{20}$	$\frac{93}{50}$
-----------------	-----------------	----------------	----------------	----------------	----------------	----------------	------------------	-----------------	-----------------

Sta.	+	A	-	Elev.
		918.51		
47	+50			911.4 ✓
T.P.	4.43	915.98 ✓	6.98	911.53
48				12.0
	+50			12.0
49				10.6
	+50			09.8
50				10.0
	+50			09.9
51				10.3
	+50			11.0
52				11.5
	+50			12.0

Lt.

2.

Rt.

$\frac{75}{50}$	$\frac{74}{27}$	$\frac{74}{12}$	$\frac{77}{10}$	$\frac{71}{-}$	$\frac{75}{11}$	$\frac{76}{35}$	$\frac{76}{50}$
-----------------	-----------------	-----------------	-----------------	----------------	-----------------	-----------------	-----------------

Ten Stamp

$\frac{38}{50}$	$\frac{38}{27}$	$\frac{39}{10}$	$\frac{42}{9}$	$\frac{40}{-}$	$\frac{38}{4}$	$\frac{46}{17}$	$\frac{38}{18}$	$\frac{38}{50}$
-----------------	-----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------	-----------------

$\frac{46}{50}$	$\frac{45}{28}$	$\frac{42}{8}$	$\frac{46}{7}$	$\frac{40}{-}$	$\frac{40}{4}$	$\frac{47}{16}$	$\frac{39}{17}$	$\frac{37}{50}$
-----------------	-----------------	----------------	----------------	----------------	----------------	-----------------	-----------------	-----------------

$\frac{58}{150}$	$\frac{68}{100}$	$\frac{62}{50}$	$\frac{59}{31}$	$\frac{57}{9}$	$\frac{61}{8}$	$\frac{54}{-}$	$\frac{53}{8}$	$\frac{57}{16}$	$\frac{51}{17}$	$\frac{44}{50}$
------------------	------------------	-----------------	-----------------	----------------	----------------	----------------	----------------	-----------------	-----------------	-----------------

$\frac{66}{50}$	$\frac{65}{28}$	$\frac{65}{9}$	$\frac{69}{8}$	$\frac{62}{-}$	$\frac{67}{13}$	$\frac{63}{14}$	$\frac{58}{50}$
-----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------	-----------------

$\frac{64}{50}$	$\frac{63}{33}$	$\frac{63}{9}$	$\frac{69}{8}$	$\frac{60}{-}$	$\frac{66}{11}$	$\frac{61}{12}$	$\frac{57}{25}$	$\frac{55}{50}$
-----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------	-----------------	-----------------

$\frac{63}{50}$	$\frac{64}{27}$	$\frac{64}{9}$	$\frac{67}{8}$	$\frac{61}{-}$	$\frac{67}{12}$	$\frac{62}{13}$	$\frac{60}{26}$	$\frac{62}{50}$
-----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------	-----------------	-----------------

$\frac{60}{50}$	$\frac{60}{27}$	$\frac{59}{8}$	$\frac{63}{7}$	$\frac{57}{-}$	$\frac{64}{12}$	$\frac{59}{13}$	$\frac{58}{25}$	$\frac{61}{50}$
-----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------	-----------------	-----------------

$\frac{54}{50}$	$\frac{56}{29}$	$\frac{52}{9}$	$\frac{57}{8}$	$\frac{50}{-}$	$\frac{49}{4}$	$\frac{35}{12}$	$\frac{52}{13}$	$\frac{50}{35}$	$\frac{50}{50}$
-----------------	-----------------	----------------	----------------	----------------	----------------	-----------------	-----------------	-----------------	-----------------

$\frac{49}{50}$	$\frac{43}{31}$	$\frac{43}{9}$	$\frac{42}{8}$	$\frac{45}{-}$	$\frac{51}{11}$	$\frac{46}{12}$	$\frac{51}{34}$	$\frac{52}{50}$
-----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------	-----------------	-----------------

$\frac{42}{50}$	$\frac{41}{32}$	$\frac{41}{11}$	$\frac{40}{-}$	$\frac{46}{9}$	$\frac{41}{10}$	$\frac{42}{29}$	$\frac{42}{50}$
-----------------	-----------------	-----------------	----------------	----------------	-----------------	-----------------	-----------------

Sta	+	F	-	Elev
		915.98		
53				911.9
	+50			11.9
T.P.	6.49	919.07	3.40	912.58
54				12.4
	+50			13.3
55				13.4
	+87			13.6
	+92			10.7
	+97			12.8
56	+104			12.7
	+21.30			13.3
B.M.		5.90		913.17
				913.15

Lt

4

Rt

$$\frac{48}{50} \quad \frac{44}{34} \quad \frac{42}{17} \quad \frac{41}{9} \quad \frac{43}{9} \quad \frac{38}{9} \quad \frac{35}{30} \quad \frac{35}{50}$$

$$\frac{51}{50} \quad \frac{50}{34} \quad \frac{45}{14} \quad \frac{41}{6} \quad \frac{44}{7} \quad \frac{41}{7} \quad \frac{35}{24} \quad \frac{33}{50}$$

$$\frac{68}{50} \quad \frac{60}{32} \quad \frac{62}{15} \quad \frac{66}{14} \quad \frac{62}{5} \quad \frac{65}{6} \quad \frac{68}{7} \quad \frac{64}{7} \quad \frac{62}{15} \quad \frac{63}{50}$$

$$\frac{47}{50} \quad \frac{49}{34} \quad \frac{52}{14} \quad \frac{56}{13} \quad \frac{54}{4} \quad \frac{58}{5} \quad \frac{60}{6} \quad \frac{56}{6} \quad \frac{60}{27} \quad \frac{67}{50}$$

$$\frac{45}{50} \quad \frac{50}{20} \quad \frac{54}{18} \quad \frac{50}{5} \quad \frac{55}{5} \quad \frac{53}{4} \quad \frac{59}{26} \quad \frac{60}{50}$$

$$\frac{51}{50} \quad \frac{54}{32} \quad \frac{56}{5} \quad \frac{54}{20} \quad \frac{58}{50}$$

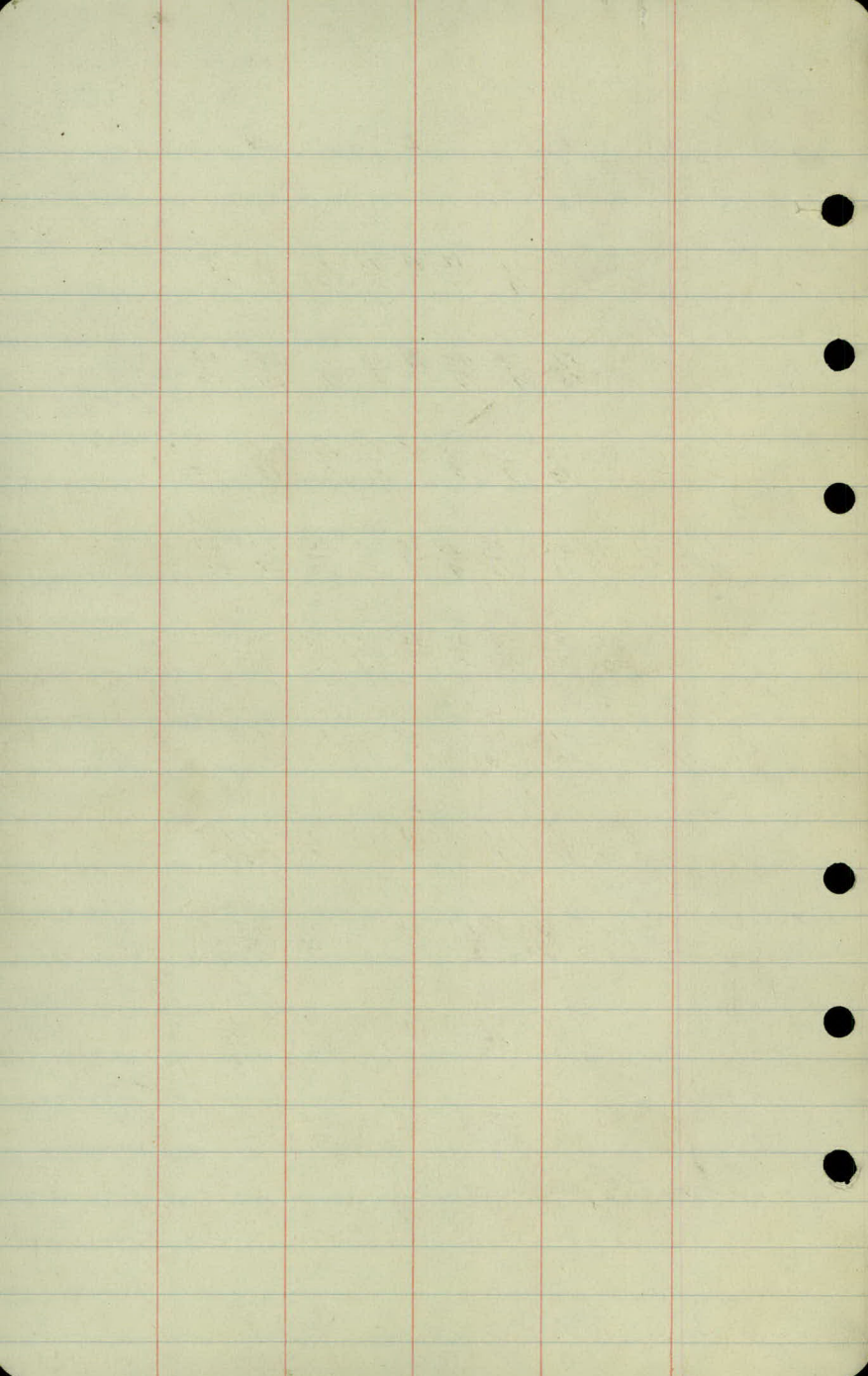
$$\frac{87}{50} \quad \frac{82}{35} \quad \frac{61}{31} \quad \frac{61}{7} \quad \frac{84}{5} \quad \frac{92}{26} \quad \frac{94}{50}$$

$$\frac{86}{50} \quad \frac{80}{38} \quad \frac{61}{32} \quad \frac{63}{5} \quad \frac{81}{6} \quad \frac{91}{28} \quad \frac{92}{50}$$

$$\frac{59}{50} \quad \frac{60}{22} \quad \frac{64}{5} \quad \frac{67}{29} \quad \frac{70}{50}$$

$$\frac{55}{50} \quad \frac{58}{5} \quad \frac{63}{50}$$

Sph. in P.P. N.E. Cor "U"



Spring Lake Park Road

Slope Stokes.

12 Pages

Sta	+	π	-	Grade
B.M.	6.17	714.56		908.39

1

+50

2

+50

09.0

3

+50

09.8

10.6

4

+50

11.4

12.2

I.R.

6.47

718.37

2.66

711.90

5

+50

13.0

13.8

14.6

6

9-7-38

K.R.

L.B.H.

M.J.G.

2

Gr. Rod.

Lt.

L

Rt.

Spk. in 18" Oak 24' Lt sta 2+34

$$5.6 \quad 294 / \frac{58}{16.17} \quad \frac{56}{00} \quad \frac{58}{16.17} / 296$$

$$4.8 \quad 242 / \frac{52}{10.16} \quad \frac{52}{-04} \quad \frac{54}{10.16} / 298$$

$$4.0 \quad 226 / \frac{52}{12.08} \quad \frac{47}{-07} \quad \frac{45}{12.08} / 240$$

$$3.2 \quad 210 / \frac{52}{12.00} \quad \frac{45}{-13} \quad \frac{42}{12.10} / 230$$

$$2.4 \quad 210 / \frac{49}{12.00} \quad \frac{37}{-13} \quad \frac{34}{12.10} / 230$$

$$2.4 \quad 220 / \frac{69}{12.05} \quad \frac{64}{-10} \quad \frac{61}{12.13} / 236$$

$$4.6 \quad 282 / \frac{55}{12.11} \quad \frac{52}{-06} \quad \frac{55}{12.11} / 232$$

$$3.8 \quad 240 / \frac{43}{12.15} \quad \frac{43}{-05} \quad \frac{49}{12.07} / 228$$

Sta.	+	X	-	Grade
------	---	---	---	-------

918.57

6	+50			15.4
---	-----	--	--	------

7				16.1
---	--	--	--	------

T.P.	9.61	928.00	1.78	916.39
------	------	--------	------	--------

	+50			16.7
--	-----	--	--	------

8				17.0
---	--	--	--	------

	+50			17.2
--	-----	--	--	------

9				17.3
---	--	--	--	------

	+50			17.4
--	-----	--	--	------

10				17.5
----	--	--	--	------

T.P.	3.06	922.57	1.49	919.51
------	------	--------	------	--------

	+50			17.6
--	-----	--	--	------

11				17.7
----	--	--	--	------

	+50			17.8
--	-----	--	--	------

Gr. Rod.

LH

R

RH

3.0

$$25.0 / \frac{2.5}{+0.5}$$

$$\frac{3.2}{-0.2}$$

$$\frac{3.8}{4.12/23.4}$$

2.3

$$25.0 / \frac{1.2}{+1.1}$$

$$\frac{2.0}{+0.3}$$

$$\frac{2.5}{4.18/24.6}$$

4.3

$$25.0 / \frac{3.6}{+0.7}$$

$$\frac{4.8}{0.0}$$

$$\frac{4.7}{4.16/24.2}$$

4.0

$$24.6 / \frac{4.2}{4.18}$$

$$\frac{4.5}{-0.5}$$

$$\frac{4.4}{4.16/24.2}$$

3.8

$$23.0 / \frac{4.8}{4.10}$$

$$\frac{4.2}{-1.1}$$

$$\frac{4.7}{4.11/23.2}$$

3.7

$$22.6 / \frac{4.9}{4.08}$$

$$\frac{4.7}{-1.0}$$

$$\frac{4.2}{4.15/24.0}$$

3.6

$$23.6 / \frac{4.3}{4.13}$$

$$\frac{4.0}{-0.4}$$

$$\frac{3.9}{4.02/25.0}$$

3.5

$$24.9 / \frac{3.8}{4.17}$$

$$\frac{3.5}{0.0}$$

$$\frac{3.0}{4.03/25.0}$$

5.0

$$25.0 / \frac{4.5}{+0.5}$$

$$\frac{4.5}{+0.5}$$

$$\frac{4.2}{4.08/25.0}$$

4.9

$$25.0 / \frac{4.1}{+0.8}$$

$$\frac{4.4}{+0.5}$$

$$\frac{4.0}{4.09/25.0}$$

4.8

$$25.0 / \frac{4.6}{+0.2}$$

$$\frac{4.8}{0.0}$$

$$\frac{4.7}{4.01/25.0}$$

Sta	+	Σ	-	Grade
		922.57		
12				17.9
	+50			17.9
13				17.8
	+50			17.5
14				17.1
T.P.	2.13	917.65	5.05	917.52
	+50			16.6
15				16.1
	+50			15.6
16				15.1
	+50			14.6
17				14.1
T.P.	4.94	915.66	5.93	913.72

Gr. Rod.

Lt

K

Bt.

$$4.7 \quad 20.4 / \frac{50}{21.7} \quad \frac{51}{-0.4} \quad \frac{53}{21.4/23.8}$$

$$4.7 \quad 25.0 / \frac{45}{10.2} \quad \frac{46}{10.1} \quad \frac{48}{25.91/29.8}$$

$$4.8 \quad 25.0 / \frac{49}{10.9} \quad \frac{46}{10.2} \quad \frac{47}{10.1/25.0}$$

$$5.1 \quad 25.0 / \frac{45}{10.6} \quad \frac{47}{10.4} \quad \frac{46}{10.5/25.0}$$

$$5.5 \quad 25.0 / \frac{46}{10.9} \quad \frac{50}{10.5} \quad \frac{51}{10.9/25.0}$$

$$5.1 \quad 25.0 / \frac{25}{10.6} \quad \frac{32}{-0.1} \quad \frac{35}{22.16/29.2}$$

$$5.6 \quad 29.8 / \frac{37}{21.9} \quad \frac{41}{-0.5} \quad \frac{46}{21.0/23.0}$$

$$4.2 \quad 29.4 / \frac{45}{21.7} \quad \frac{49}{-0.7} \quad \frac{47}{21.5/24.0}$$

$$4.6 \quad 23.2 / \frac{35}{21.1} \quad \frac{35}{-0.9} \quad \frac{51}{21.15/24.0}$$

$$5.1 \quad 22.9 / \frac{64}{20.7} \quad \frac{65}{-1.4} \quad \frac{60}{21.1/23.2}$$

$$5.6 \quad 23.2 / \frac{65}{21.1} \quad \frac{65}{-1.2} \quad \frac{65}{21.1/23.2}$$

Sta	+	Σ	-	Grade	
		918.66			
17	+50			12.6	
18				13.1	
	+67			12.4	
B.M.					916.35
	+88			12.2	
19				12.1	
B.M.	2.29	918.64	2.29	916.37	916.35
I.P.	3.20	912.73	7.11	909.53	
20	+21			11.3	
	+50			11.0	
21				10.5	
	+50			10.1	
22				09.9	
	+50			09.8	

Gr. Rod.

Lt.

R.

Rt.

$$5.1 \quad 25.0 / \begin{array}{r} 51 \\ +00 \end{array} \quad \begin{array}{r} 57 \\ -06 \end{array} \quad \begin{array}{r} 58 \\ 15.13 / 23.6 \end{array}$$

$$5.6 \quad 27.0 / \begin{array}{r} 46 \\ +1.0 \end{array} \quad \begin{array}{r} 54 \\ +0.2 \end{array} \quad \begin{array}{r} 53 \\ 10.3 / 25.0 \end{array}$$

$$6.3 \quad 29.8 / \begin{array}{r} 39 \\ +2.4 \end{array} \quad \begin{array}{r} 48 \\ +1.8 \end{array} \quad \begin{array}{r} 42 \\ 12.1 / 25.0 \end{array}$$

Spt in 6" Tr. Oak 60' Lt. 18+70

$$6.6 \quad 29.6 / \begin{array}{r} 48 \\ +2.3 \end{array} \quad \begin{array}{r} 66 \\ 0.0 \end{array}$$

$$1.4 \quad 17.4 / \begin{array}{r} 36 \\ -2.2 \end{array} \quad \begin{array}{r} 34 \\ -0.2 \end{array} \quad \begin{array}{r} 32 \\ 10.2 / 21.4 \end{array}$$

$$1.7 \quad 18.8 / \begin{array}{r} 46 \\ -2.9 \end{array} \quad \begin{array}{r} 42 \\ -2.5 \end{array} \quad \begin{array}{r} 36 \\ 10.1 / 21.2 \end{array}$$

$$2.2 \quad 20.2 / \begin{array}{r} 58 \\ -3.6 \end{array} \quad \begin{array}{r} 52 \\ -3.0 \end{array} \quad \begin{array}{r} 47 \\ 15 / 18.0 \end{array}$$

$$12.6 \quad 18.8 / \begin{array}{r} 60 \\ -3.2 \end{array} \quad \begin{array}{r} 58 \\ -3.2 \end{array} \quad \begin{array}{r} 51 \\ 15 / 18.0 \end{array}$$

$$2.8 \quad 19.2 / \begin{array}{r} 59 \\ -3.1 \end{array} \quad \begin{array}{r} 55 \\ -2.7 \end{array} \quad \begin{array}{r} 48 \\ 10.0 / 21.0 \end{array}$$

$$2.9 \quad 18.2 / \begin{array}{r} 55 \\ -2.6 \end{array} \quad \begin{array}{r} 50 \\ -2.1 \end{array} \quad \begin{array}{r} 45 \\ 10.9 / 21.8 \end{array}$$

Sta	+	π	-	Grade
		912.73		

23				89.9
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+50				10.1
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24				10.3
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T.P.	4.26	915.75	1.94	911.99
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+50				10.5
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25				10.7
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+50				10.9
-----	--	--	--	------

26				11.1
----	--	--	--	------

+50				11.3
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27				11.5
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+50				11.7
-----	--	--	--	------

T.P.	4.28	915.77	4.26	911.49
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28				11.9
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Gr. Rod.

Lt

L

Rt.

$$2.8 \quad 15.2 / \begin{array}{r} 54 \\ -26 \end{array} \quad \begin{array}{r} 97 \\ -17 \end{array} \quad \begin{array}{r} 35 \\ 4.10 / 23.0 \end{array}$$

$$2.6 \quad 17.8 / \begin{array}{r} 50 \\ -24 \end{array} \quad \begin{array}{r} 93 \\ -17 \end{array} \quad \begin{array}{r} 34 \\ 12.12 / 21.2 \end{array}$$

$$2.4 \quad 17.2 / \begin{array}{r} 45 \\ -21 \end{array} \quad \begin{array}{r} 39 \\ -15 \end{array} \quad \begin{array}{r} 26 \\ 10.16 / 24.2 \end{array}$$

Nail in Tr. R. 24+30

$$5.2 \quad 21.8 / \begin{array}{r} 49 \\ 12.04 \end{array} \quad \begin{array}{r} 45 \\ -12 \end{array} \quad \begin{array}{r} 36 \\ 12.17 / 24.4 \end{array}$$

$$5.1 \quad 22.4 / \begin{array}{r} 64 \\ 12.07 \end{array} \quad \begin{array}{r} 59 \\ -08 \end{array} \quad \begin{array}{r} 53 \\ 12.15 / 24.6 \end{array}$$

$$4.9 \quad 22.6 / \begin{array}{r} 56 \\ 12.13 \end{array} \quad \begin{array}{r} 54 \\ -05 \end{array} \quad \begin{array}{r} 52 \\ 12.17 / 24.4 \end{array}$$

$$4.7 \quad 25.0 / \begin{array}{r} 47 \\ 10.0 \end{array} \quad \begin{array}{r} 48 \\ -01 \end{array} \quad \begin{array}{r} 49 \\ 12.18 / 24.6 \end{array}$$

$$4.5 \quad 25.0 / \begin{array}{r} 41 \\ 10.9 \end{array} \quad \begin{array}{r} 43 \\ 10.2 \end{array} \quad \begin{array}{r} 42 \\ 10.3 / 25.0 \end{array}$$

$$4.3 \quad 25.0 / \begin{array}{r} 38 \\ 10.5 \end{array} \quad \begin{array}{r} 38 \\ 10.5 \end{array} \quad \begin{array}{r} 37 \\ 10.6 / 25.0 \end{array}$$

$$4.1 \quad 25.0 / \begin{array}{r} 41 \\ 10.0 \end{array} \quad \begin{array}{r} 42 \\ -01 \end{array} \quad \begin{array}{r} 43 \\ 12.18 / 24.6 \end{array}$$

$$3.9 \quad 24.0 / \begin{array}{r} 44 \\ 12.15 \end{array} \quad \begin{array}{r} 45 \\ -06 \end{array} \quad \begin{array}{r} 46 \\ 12.13 / 23.6 \end{array}$$

Sta	+	Δ	-	Grade
		915.77		
28	+50			12.1
29				12.3
	+50			12.5
30				12.7
T.P.	5.51	918.25	5.09	912.74
	+50			12.9
31				13.1
	+50			13.3
32				13.5
	+50			13.7
33				13.9
T.P.	3.96	918.82	2.59	914.86
	+50			14.1

Cor. Mod.

Lt

K

Rt.

$$3.7 \quad 244 / \frac{4.0}{R.1.7} \quad \frac{44}{-0.7} \quad \frac{45}{R.12} / 23.9$$

$$3.6 \quad 240 / \frac{4.0}{R.1.5} \quad \frac{45}{-1.0} \quad \frac{47}{R.09} / 22.6$$

$$3.3 \quad 230 / \frac{4.3}{R.1.0} \quad \frac{45}{-1.0} \quad \frac{45}{R.08} / 22.6$$

$$3.1 \quad 238 / \frac{3.7}{R.1.9} \quad \frac{37}{-0.6} \quad \frac{38}{R.13} / 23.6$$

$$5.4 \quad 246 / \frac{5.6}{R.1.8} \quad \frac{6.0}{-0.6} \quad \frac{6.2}{R.1.2} / 23.9$$

$$5.2 \quad 242 / \frac{5.5}{R.1.6} \quad \frac{6.2}{-1.0} \quad \frac{6.3}{R.07} / 22.8$$

$$5.0 \quad 246 / \frac{5.2}{R.1.8} \quad \frac{5.9}{-0.9} \quad \frac{6.3}{R.07} / 22.9$$

$$4.8 \quad 250 / \frac{4.4}{+0.4} \quad \frac{4.9}{-0.1} \quad \frac{4.8}{+0.0} / 25.0$$

$$4.6 \quad 270 / \frac{3.6}{+1.0} \quad \frac{4.2}{+0.4} \quad \frac{4.1}{+0.5} / 25.0$$

$$4.4 \quad 284 / \frac{2.7}{+1.7} \quad \frac{3.2}{+1.2} \quad \frac{3.2}{+1.2} / 27.9$$

$$4.7 \quad 296 / \frac{2.4}{+2.3} \quad \frac{3.3}{+1.4} \quad \frac{3.3}{+1.4} / 27.8$$

Eos.

Eos.

Sta	+	X	-	Grade
		715.82		

34				14.3
----	--	--	--	------

	+50			14.3
--	-----	--	--	------

35				14.7
----	--	--	--	------

	+50			14.8
--	-----	--	--	------

36				14.9
----	--	--	--	------

	+50			15.0
--	-----	--	--	------

37				15.0
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I.P.	2.59	916.84	4.57	714.25
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	+50			15.0
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38				15.0
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	+50			14.9
--	-----	--	--	------

39				14.8
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I.P.	3.83	919.86	0.81	916.03
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Cor. Rod.

Lt

R

Rt.

$$4.5 \quad \begin{array}{l} \text{Eas.} \\ 28.2 / \frac{2.9}{+1.6} \end{array} \quad \begin{array}{l} \frac{36}{+0.9} \end{array} \quad \begin{array}{l} \frac{32}{+1.1} / 27.2 \end{array}$$

Eas.

$$4.3 \quad \begin{array}{l} \text{Y} \\ 24.2 / \frac{4.7}{+1.6} \end{array} \quad \begin{array}{l} \frac{48}{-0.5} \end{array} \quad \begin{array}{l} \frac{3.7}{+0.7} / 25.8 \end{array}$$

$$4.1 \quad \begin{array}{l} 22.4 / \frac{5.4}{+0.7} \end{array} \quad \begin{array}{l} \frac{51}{-1.0} \end{array} \quad \begin{array}{l} \frac{41}{+0.0} / 25.0 \end{array}$$

$$4.0 \quad \begin{array}{l} 22.8 / \frac{5.1}{+0.7} \end{array} \quad \begin{array}{l} \frac{49}{-0.9} \end{array} \quad \begin{array}{l} \frac{48}{+0.17} / 24.4 \end{array}$$

$$3.9 \quad \begin{array}{l} 24.2 / \frac{4.3}{+1.6} \end{array} \quad \begin{array}{l} \frac{44}{-0.5} \end{array} \quad \begin{array}{l} \frac{43}{+0.16} / 24.2 \end{array}$$

$$3.8 \quad \begin{array}{l} 25.0 / \frac{3.0}{+0.8} \end{array} \quad \begin{array}{l} \frac{36}{+0.2} \end{array} \quad \begin{array}{l} \frac{41}{+0.17} / 24.4 \end{array}$$

$$3.8 \quad \begin{array}{l} 25.0 / \frac{3.7}{+0.1} \end{array} \quad \begin{array}{l} \frac{45}{-0.7} \end{array} \quad \begin{array}{l} \frac{51}{+0.07} / 22.4 \end{array}$$

$$1.8 \quad \begin{array}{l} 22.0 / \frac{5.3}{+0.5} \end{array} \quad \begin{array}{l} \frac{46}{-2.6} \end{array} \quad \begin{array}{l} \frac{5.2}{-3.4} / 19.8 \end{array}$$

$$1.8 \quad \begin{array}{l} 18.2 / \frac{4.6}{-2.6} \end{array} \quad \begin{array}{l} \frac{51}{-3.3} \end{array} \quad \begin{array}{l} \frac{5.8}{-4.0} / 21.0 \end{array}$$

$$1.9 \quad \begin{array}{l} 22.6 / \frac{3.1}{+0.8} \end{array} \quad \begin{array}{l} \frac{59}{-2.0} \end{array} \quad \begin{array}{l} \frac{38}{+0.1} / 21.2 \end{array}$$

$$2.0 \quad \begin{array}{l} 26.4 / \frac{1.3}{+0.7} \end{array} \quad \begin{array}{l} \frac{18}{+0.2} \end{array} \quad \begin{array}{l} \frac{2.1}{+0.19} / 24.8 \end{array}$$

Eas.

Sta.	+	Σ	-	Grade
		919.86		
39	+50			14.7
40				14.6
	+50			14.5
41				14.4
T.P.	1.75	917.21	4.40	915.46
	+50			14.3
42				14.2
	+50			14.1
B.M.			3.29	913.92 913.92
43				14.0
	+50			13.9
44				13.8
	+50			13.6
I.P.	2.84	914.65	3.40	913.81

7-9-38
K.H.
L.B.H.
MAG.

9

Gr. Rod.

Lt.

Rt.

Rt.

5.2

$$29.4 / \frac{3.0}{+2.2}$$

$$\frac{36}{+1.6}$$

$$\frac{43}{10.9} / 25.0$$

5.3

$$29.2 / \frac{3.2}{+2.1}$$

$$\frac{43}{+1.0}$$

$$\frac{52}{7.91} / 25.0$$

5.4

$$28.0 / \frac{3.9}{+1.5}$$

$$\frac{51}{+0.3}$$

$$\frac{59}{8.15} / 24.0$$

5.5

$$22.8 / \frac{4.1}{+1.4}$$

$$\frac{51}{+0.4}$$

$$\frac{58}{47.7} / 24.4$$

Nail in 2" Oak Lt

2.7

$$26.4 / \frac{2.2}{+0.7}$$

$$\frac{29}{0.0}$$

$$\frac{3.5}{10.14} / 23.8$$

3.0

$$24.4 / \frac{3.3}{+0.7}$$

$$\frac{35}{-0.5}$$

$$\frac{4.2}{12.08} / 22.6$$

3.1

$$23.4 / \frac{3.9}{+0.12}$$

$$\frac{44}{-1.5}$$

$$\frac{5.1}{10.0} / 21.0$$

Spk. in P.P. 22' Lt. 42+82

3.2

$$23.8 / \frac{4.3}{+0.9}$$

$$\frac{52}{-2.0}$$

$$\frac{5.7}{6.5} / 18.0$$

3.3

$$24.0 / \frac{3.8}{+0.15}$$

$$\frac{5.1}{-1.8}$$

$$\frac{5.4}{15.00} / 21.0$$

3.4

$$24.2 / \frac{3.5}{+0.16}$$

$$\frac{4.1}{-0.7}$$

$$\frac{4.5}{15.09} / 22.8$$

3.6

$$24.6 / \frac{3.1}{+0.18}$$

$$\frac{3.4}{+0.2}$$

$$\frac{3.5}{15.15} / 24.6$$

Sta	+	π	-	Grade
		916.65		
45				13.5
	+50			13.2
46				13.00
	+70			12.6
47				12.4
	+60			12.1
48				11.9
	+50			11.6
I.P.	5.78	916.34	6.07	910.56
49				11.4
	+50			11.3
50				11.3

Gr. Rod

Lt.

Z

Rt.

$$3.2 \quad 250 / \frac{30}{10.2} \quad \frac{28}{10.9} \quad \frac{29}{10.9} / 250$$

$$3.5 \quad 242 / \frac{36}{10.9} \quad \frac{34}{10.1} \quad \frac{34}{10.1} / 250$$

$$3.7 \quad 214 / \frac{5.4}{10.3} \quad \frac{52}{-1.5} \quad \frac{50}{10.7} / 22.4$$

$$4.1 \quad 19.4 / \frac{7.3}{-3.2} \quad \frac{73}{-3.2} \quad \frac{74}{-1.5} / 19.6$$

$$4.3 \quad 19.0 / \frac{7.3}{-3.0} \quad \frac{73}{-3.0} \quad \frac{79}{-3.6} / 20.2$$

$$4.6 \quad 29.2 / \frac{5.0}{10.6} \quad \frac{51}{-0.5} \quad \frac{52}{10.4} / 23.8$$

$$4.8 \quad 250 / \frac{46}{10.2} \quad \frac{46}{10.2} \quad \frac{45}{10.3} / 25.0$$

$$5.1 \quad 250 / \frac{5.1}{10.0} \quad \frac{47}{10.4} \quad \frac{4.9}{10.7} / 250$$

$$4.9 \quad 226 / \frac{6.1}{10.8} \quad \frac{55}{-0.9} \quad \frac{53}{10.6} / 24.2$$

$$5.0 \quad 21.4 / \frac{2.8}{10.0} \quad \frac{66}{-1.6} \quad \frac{64}{10.6} / 22.2$$

$$5.0 \quad 21.4 / \frac{6.8}{10.2} \quad \frac{64}{-1.4} \quad \frac{6.1}{10.9} / 22.8$$

stg.	+	x	-	Grade
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916.34

50	+50			11.3
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51				11.5
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750				11.6
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52				118
----	--	--	--	-----

750				11.9
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53				12.1
----	--	--	--	------

750				12.2
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T.P.	6.20	918.83	3.71	912.63
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54				12.4
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+50				12.5
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55				12.7
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150				12.8
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487				129
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Gr. Rod

L_tL_tR_t

$$5.0 \quad \begin{array}{r} 21.6 \\ \times 0.7 \\ \hline 15.12 \end{array} \quad \begin{array}{r} 65 \\ -15 \\ \hline 50 \end{array} \quad \begin{array}{r} 69 \\ 1506 \\ \hline 22.2 \end{array} \quad X$$

$$4.8 \quad \begin{array}{r} 22.2 \\ \times 0.6 \\ \hline 13.32 \end{array} \quad \begin{array}{r} 61 \\ -13 \\ \hline 48 \end{array} \quad \begin{array}{r} 61 \\ 1507 \\ \hline 22.4 \end{array}$$

$$4.7 \quad \begin{array}{r} 23.6 \\ \times 0.3 \\ \hline 7.08 \end{array} \quad \begin{array}{r} 54 \\ -07 \\ \hline 47 \end{array} \quad \begin{array}{r} 54 \\ 1513 \\ \hline 23.6 \end{array}$$

$$4.5 \quad \begin{array}{r} 24.8 \\ \times 0.7 \\ \hline 17.36 \end{array} \quad \begin{array}{r} 49 \\ -04 \\ \hline 45 \end{array} \quad \begin{array}{r} 53 \\ 1512 \\ \hline 23.4 \end{array}$$

$$4.4 \quad \begin{array}{r} 25.0 \\ \times 0.1 \\ \hline 2.50 \end{array} \quad \begin{array}{r} 43 \\ 101 \\ \hline 43 \end{array} \quad \begin{array}{r} 45 \\ 1517 \\ \hline 24.8 \end{array}$$

$$4.2 \quad \begin{array}{r} 24.2 \\ \times 0.6 \\ \hline 14.52 \end{array} \quad \begin{array}{r} 44 \\ -02 \\ \hline 42 \end{array} \quad \begin{array}{r} 39 \\ 1523 \\ \hline 25.0 \end{array}$$

$$4.1 \quad \begin{array}{r} 23.2 \\ \times 0.1 \\ \hline 2.32 \end{array} \quad \begin{array}{r} 44 \\ -03 \\ \hline 41 \end{array} \quad \begin{array}{r} 38 \\ 153 \\ \hline 25.0 \end{array}$$

$$4.4 \quad \begin{array}{r} 25.0 \\ \times 0.7 \\ \hline 17.50 \end{array} \quad \begin{array}{r} 62 \\ 102 \\ \hline 62 \end{array} \quad \begin{array}{r} 59 \\ 1505 \\ \hline 25.0 \end{array}$$

$$4.2 \quad \begin{array}{r} 25.0 \\ \times 0.5 \\ \hline 12.50 \end{array} \quad \begin{array}{r} 55 \\ 108 \\ \hline 55 \end{array} \quad \begin{array}{r} 57 \\ 1506 \\ \hline 25.0 \end{array}$$

$$4.1 \quad \begin{array}{r} 25.0 \\ \times 0.5 \\ \hline 12.50 \end{array} \quad \begin{array}{r} 52 \\ 109 \\ \hline 52 \end{array} \quad \begin{array}{r} 55 \\ 1506 \\ \hline 25.0 \end{array}$$

$$4.0 \quad \begin{array}{r} 25.0 \\ \times 0.4 \\ \hline 10.00 \end{array} \quad \begin{array}{r} 53 \\ 107 \\ \hline 53 \end{array} \quad \begin{array}{r} 51 \\ 1507 \\ \hline 25.0 \end{array}$$

$$5.9 \quad \begin{array}{r} 25.0 \\ \times 0.5 \\ \hline 12.50 \end{array} \quad \begin{array}{r} 52 \\ 107 \\ \hline 52 \end{array} \quad \begin{array}{r} 51 \\ 1508 \\ \hline 25.0 \end{array}$$

Sta	+	π	-	Grade	
		711.93			
55	192			12.9	
	197			12.9	
B.M.			367	712.26	913.15

Cor. Red.

Lt.

K

Rt.

913.20 from Groveland St.
Spk. in P.R.N.E. Cor. Cor. Red " "

Sta.	+	π	-	Grade
B.M.	5.62	916.32		910.70
T.P.	576	916.55	5.53	910.77
			3.85	913.20