

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

----- *PLAN* ----- Survey

----- *WALNUT STREET* -----

From *Co. Rd. A2* ----- To *Co. Rd. B.* -----

Road Acc't. No. *67* -----

Date Filed *2-32* ----- File *C* -----

Transit Notes

Walnut

St.

Rose Twp.

~~32-67~~

26+52⁶⁵

Ang. Lt Ang Rt.
End of Proj.

{ 10-29-31
Weber
Willse
Bell
Strenman }

11 + 16⁷¹ P.T. 10°43'5"

11 9°53'

+50 7°23'

+10.93 P.I. (2127)

10 4°53'

+50 2°23'

9+03³⁷ P.C.

{ Δ = 2127
D = 10°
T = 108.66
L = 214.5
R = 573.69 }

7 + 65³⁹ P.T.

10°45'

+50 9°59'

7 7°29'

6 + 59³⁰ P.I. (2130)

+50 4°59'

6 2°29'

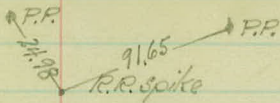
5+50³⁹ P.C.

{ Δ 2130 Rt.
D = 10°
T = 108.92
L = 215.0
R = 573.69 }

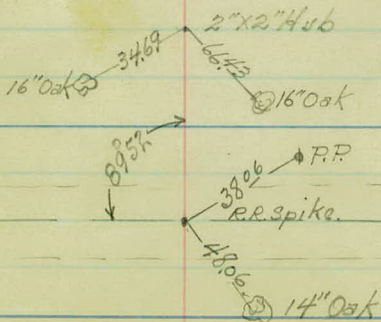
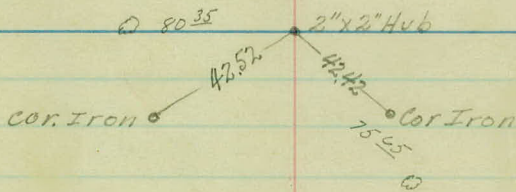
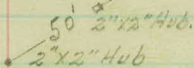
2+77⁸⁴ P.O.T.

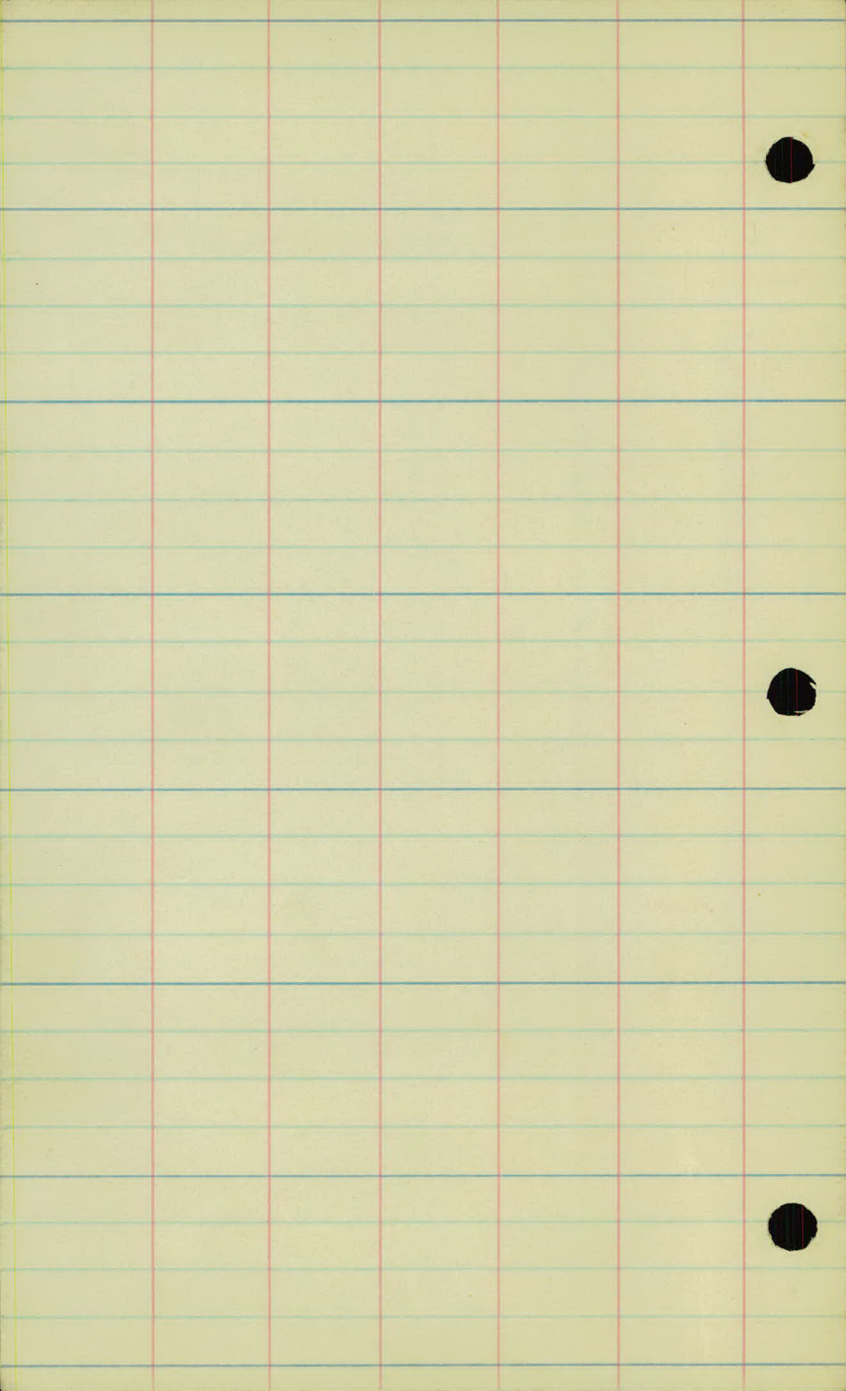
0+00 = £ (Broadway) Co. Rd. A2

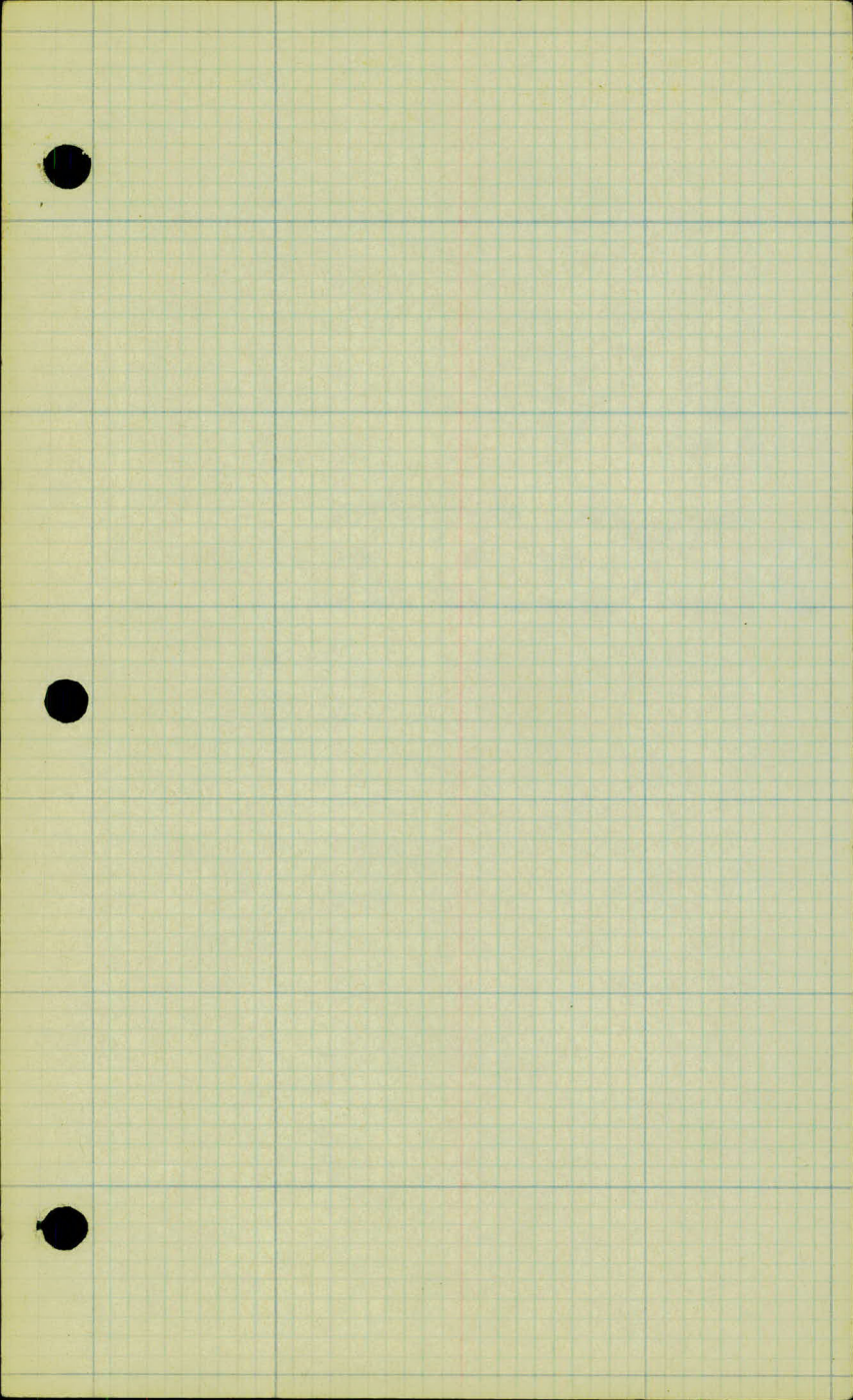
E. Co. Rd. "B"



Point of Roof
Ticket office.







5

4

3

2

1

0+00

+54 End Yard Beg. Cult. 9'

+12 Pr. Dr. 8'

+72 F End 33'

+91 F Cor 31'
+86-12' Bo. 32'

+64-15" Bo. 31'
+57 Beg Garden
+47-12' Bo. 33'

+19 End Garden
Garden.

+85 F Cor. 30'
+78 Pr. Dr.
+66-15" Oak 34'

+71-Tw 18" Oak 21'

+81-18" Bo. 9'

+79-Tw. 12' Bo. 21'

+40

33'
60'
10" 11" 12"

County Road
17' wide cut back

Yard. Cult. Yard

Scattered Oaks

+17-10' Bo. 33'
+03-15' Bo. 30'
+14-10' Bo. 33'

+48 Int Trail

+00 Pr. Dr.
+71-Tr. 18' Bo. 32'
+44 End yard.

Yard.

+59-15" Bo. 31'
+16 Pr. Dr.

+28 End Garden (27)

+40 Beg Garden

Scattered Oaks

Scattered Oaks

+24 Pr. Dr. 29'
+20 X Dr.
15" X 30" Pl.

A2

11

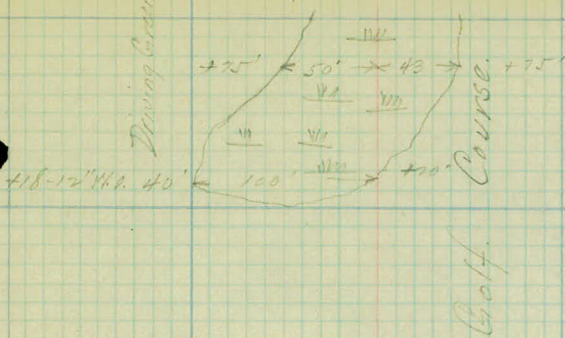
10

9

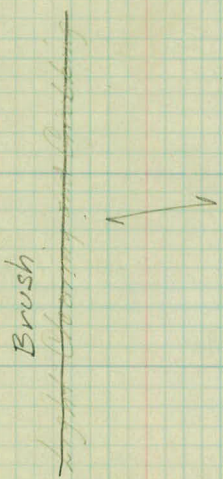
8

7

6



100 End Grubbing and Clearing RT and LT.



+60 Bep. Light Clearing and Grubbing
 +40 Int. of East Trail.

+35 End Southern
 +26-12' S.O. 31
 +20-10' B.O. 28

18

17

16

15

14

13

12

Golf Course

Golf Course.

Golf Course

Golf Course



+52-18" v. 10. 26'

6" tile.

+93-30" v. 10. 18'

+74-18" v. 10. 40'

+74-14" v. 10. 9'

+52-18" v. 10. 26'



+75 Edge Pot hole.

24

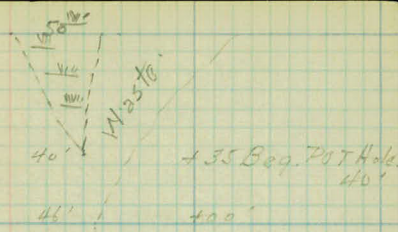
23

22

21

20

19



Waste land.

+45

+00

+72 Int.

Waste land.

Golf Course

18.

25.

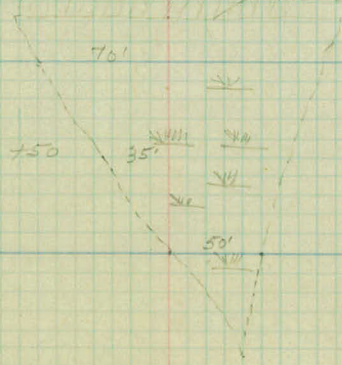
+41 Edge Golf Course

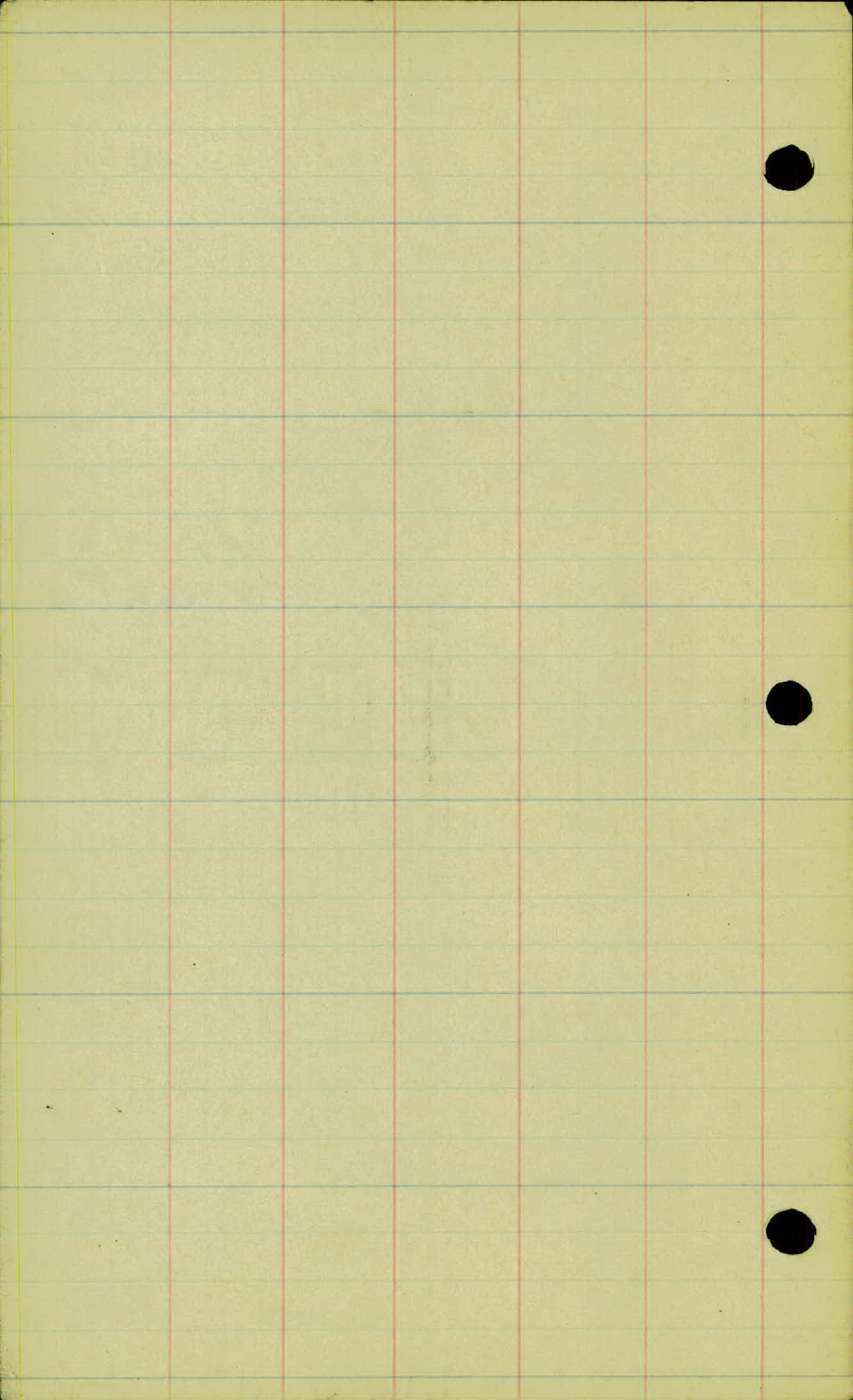
25.

26'

25

County Road 10'
the slope.





X Sections and Check
Levels

Walnut St

Rose Twp.

Sta. 0+00 To 26+52?

+ H.I. -

B.M. 8.18 965.71 ✓ 957.53

T.P. 9.02 973.74 ✓ 0.99 964.72 ✓

T.P. 0.68 969.54 ✓ 4.88 968.86 ✓

T.P. 0.23 960.81 ✓ 8.96 960.58 ✓

T.P. 0.21 953.35 ✓ 7.67 953.14 ✓

T.P. 2.99 953.14 ✓ 3.20 950.15 ✓

B.M. 4.76 948.38 ✓

0+00 949.3

+13 48.9

+18 46.6

+50 47.1

1 49.8

T.P. 9.61 961.18 ✓ 1.57 951.57 ✓

+50 51.2

2 54.0

+30 56.7

+66 57.2

Left \neq Right

Spt in PP 15' 12+17

Spike in 18" Oak 66' So. of 0+00

$\frac{27}{50}$ $\frac{32}{25}$ 38 $\frac{42}{28}$ $\frac{46}{50}$

$\frac{32}{40}$ $\frac{36}{22}$ 42 $\frac{45}{18}$ $\frac{52}{40}$

$\frac{52}{40}$ $\frac{60}{17}$ 65 $\frac{65}{3}$ $\frac{47}{9}$ $\frac{47}{20}$ $\frac{53}{32}$ $\frac{72}{38}$ $\frac{76}{45}$

$\frac{36}{40}$ $\frac{52}{18}$ 60 $\frac{65}{6}$ $\frac{55}{11}$ $\frac{54}{16}$ $\frac{60}{27}$ $\frac{68}{40}$

$\frac{43}{40}$ $\frac{00}{29}$ $\frac{17}{18}$ 33 $\frac{50}{2}$ $\frac{45}{7}$ $\frac{43}{13}$ $\frac{46}{21}$ $\frac{55}{40}$

Top Stake 1+50

$\frac{70}{40}$ $\frac{90}{17}$ 100 $\frac{111}{1}$ $\frac{107}{7}$ $\frac{108}{12}$ $\frac{110}{20}$ $\frac{120}{40}$

$\frac{55}{40}$ $\frac{60}{17}$ 72 $\frac{72}{4}$ $\frac{78}{6}$ $\frac{80}{13}$ $\frac{88}{19}$ $\frac{80}{23}$ $\frac{84}{40}$

$\frac{30}{40}$ $\frac{26}{25}$ $\frac{36}{8}$ 45 $\frac{54}{8}$ $\frac{60}{9}$ $\frac{64}{16}$ $\frac{65}{20}$ $\frac{60}{23}$ $\frac{66}{40}$

$\frac{20}{40}$ $\frac{16}{35}$ $\frac{27}{13}$ 40 $\frac{49}{9}$ $\frac{56}{11}$ $\frac{60}{20}$ $\frac{58}{23}$ $\frac{75}{40}$

961.18 ✓

3 56.2

+50 57.8

4 57.6

+22 54.7

+70 51.0

5 49.1

T.P. 2.02 ✓ 952.57 ✓ 10.63 950.55

+35 ✓ 48.3

+71 50.5

6 48.4

+50 45.4

7 41.4

+50 40.6

T.P. 6.51 ✓ 945.84 ✓ 13.24 939.33

8 38.8

Lt . £ Rt.

$\frac{3.7}{40}$ $\frac{4.1}{29}$ $\frac{4.7}{15}$ 50 $\frac{5.4}{70}$ $\frac{6.0}{12}$ $\frac{6.4}{26}$ $\frac{7.8}{40}$

$\frac{5.2}{40}$ $\frac{5.3}{25}$ 6.4 $\frac{6.6}{7}$ $\frac{7.5}{12}$ $\frac{8.7}{40}$

$\frac{4.8}{40}$ $\frac{5.0}{24}$ $\frac{5.8}{4}$ 6.6 $\frac{6.3}{5}$ $\frac{7.2}{22}$ $\frac{8.0}{40}$

$\frac{6.2}{40}$ $\frac{6.0}{29}$ $\frac{6.0}{11}$ $\frac{6.8}{6}$ 6.5 $\frac{6.7}{11}$ $\frac{6.5}{14}$ $\frac{7.3}{33}$ $\frac{7.7}{40}$

$\frac{10.0}{40}$ $\frac{9.7}{18}$ $\frac{10.7}{17}$ $\frac{9.7}{5}$ 10.2 $\frac{10.2}{4}$ $\frac{9.4}{5}$ $\frac{9.4}{23}$ $\frac{9.7}{40}$

$\frac{7.7}{40}$ $\frac{7.7}{18}$ $\frac{7.0}{9}$ 12.1 $\frac{12.7}{2}$ $\frac{11.8}{3}$ $\frac{12.2}{13}$ $\frac{12.5}{40}$

$\frac{2.5}{40}$ $\frac{3.0}{19}$ $\frac{3.4}{18}$ $\frac{3.4}{4}$ 4.3 $\frac{4.0}{3}$ $\frac{5.0}{20}$ $\frac{5.6}{40}$

$\frac{3.3}{40}$ $\frac{2.1}{21}$ $\frac{2.0}{15}$ 2.3 $\frac{2.6}{7}$ $\frac{2.8}{22}$ $\frac{3.7}{37}$ $\frac{4.2}{40}$

$\frac{4.7}{40}$ $\frac{3.8}{32}$ $\frac{3.8}{20}$ $\frac{4.3}{11}$ 4.2 $\frac{4.2}{17}$ $\frac{4.7}{40}$

$\frac{6.4}{40}$ $\frac{6.6}{17}$ 7.2 $\frac{7.8}{22}$ $\frac{7.8}{40}$

$\frac{9.4}{40}$ $\frac{10.4}{19}$ 11.2 $\frac{11.4}{22}$ $\frac{11.4}{40}$

$\frac{12.4}{40}$ $\frac{11.8}{25}$ 12.0 $\frac{12.7}{22}$ $\frac{13.2}{40}$

Top Stake Sta. B+00

$\frac{10.0}{40}$ $\frac{8.2}{24}$ $\frac{7.4}{11}$ 7.0 $\frac{7.0}{16}$ $\frac{7.8}{17}$ $\frac{7.6}{24}$ $\frac{6.8}{25}$ $\frac{7.1}{40}$

+ H.I. ✓ - Elev.
945.84

+30 37.3

+78 40.3

9 39.6

+50 35.3

T.P. 0.30 934.00 ✓ 12.14 933.70 ✓

+73 ✓ 32.6

10 28.0

+50 24.7

+75 23.8

11 24.3

+18 ✗ 23.5

+24 ✓ 21.6

B.M. 5.55 931.07 ✓ 8.48 925.52 ✓

+42 19.6

12 19.1

Lt ± Rt

$\frac{10.7}{40}$ $\frac{100}{31}$ $\frac{87}{10}$ 8.5 $\frac{77}{3}$ $\frac{60}{24}$ $\frac{4.8}{40}$

$\frac{87}{40}$ $\frac{81}{22}$ $\frac{6.1}{4}$ 5.5 $\frac{4.2}{16}$ $\frac{2.6}{31}$ $\frac{2.4}{40}$

$\frac{9.2}{40}$ $\frac{8.0}{19}$ 6.2 $\frac{5.8}{6}$ $\frac{37}{27}$ $\frac{35}{35}$ $\frac{4.7}{40}$

$\frac{13.4}{40}$ $\frac{12.2}{29}$ $\frac{11.2}{14}$ 10.5 $\frac{10.2}{23}$ $\frac{10.2}{40}$

$\frac{3.7}{40}$ $\frac{3.4}{24}$ $\frac{2.6}{14}$ 1.4 $\frac{0.7}{8}$ $\frac{10}{24}$ $\frac{1.6}{40}$

$\frac{6.4}{40}$ $\frac{6.6}{19}$ 6.0 $\frac{5.5}{17}$ $\frac{6.0}{18}$ $\frac{5.5}{25}$ $\frac{5.5}{40}$

$\frac{8.0}{40}$ $\frac{8.5}{35}$ $\frac{9.5}{15}$ 9.3 $\frac{9.4}{5}$ $\frac{100}{6}$ $\frac{9.2}{30}$ $\frac{9.0}{40}$

$\frac{8.5}{40}$ $\frac{9.2}{35}$ $\frac{10.2}{10}$ 10.2 $\frac{10.0}{6}$ $\frac{9.0}{14}$ $\frac{8.7}{40}$

$\frac{10.0}{40}$ $\frac{11.7}{18}$ 9.7 $\frac{9.4}{20}$ $\frac{9.2}{40}$

$\frac{13.0}{40}$ $\frac{12.7}{18}$ $\frac{11.4}{4}$ 10.5 $\frac{10.0}{20}$ $\frac{10.0}{40}$

$\frac{14.0}{40}$ $\frac{13.6}{29}$ $\frac{13.0}{13}$ 12.4 $\frac{12.0}{3}$ $\frac{10.4}{8}$ $\frac{10.0}{40}$

spike in 20' CM. 10.5 Lt 11 + 50

$\frac{11.2}{40}$ $\frac{11.6}{25}$ 11.5 $\frac{9.5}{21}$ $\frac{7.8}{28}$ $\frac{7.5}{40}$

Low
 $\frac{11.0}{40}$ $\frac{12.0}{16}$ 12.0 $\frac{12.3}{27}$ $\frac{12.0}{40}$

931.07 ✓

12 + 14

19.1 ,

+ 27

21.5 ,

+ 70

27.1 ,

13

28.1 ,

+ 32

26.4 ,

+ 50

24.9 ,

+ 80

24.9 ,

14

25.3 ,

+ 50

25.6 ,

15 + 00

25.9 ,

15 + 21

26.3 ,

+ 44

28.5 ,

T.P

5.79 936.63 ✓

0.23 930.84 ✓

16

30.2 ,

Lt. ~~4~~ R4.

$$\frac{100}{40} \quad \frac{112}{17} \quad 120 \quad \frac{120}{16} \quad \frac{120}{37} \quad \frac{105}{40}$$

$$\frac{80}{40} \quad \frac{96}{20} \quad 96 \quad \frac{96}{26} \quad \frac{96}{40}$$

$$\frac{48}{40} \quad \frac{45}{22} \quad 40 \quad \frac{40}{16} \quad \frac{63}{36} \quad \frac{74}{47}$$

$$\frac{44}{40} \quad \frac{37}{26} \quad 30 \quad \frac{26}{14} \quad \frac{35}{40}$$

$$\frac{58}{40} \quad \frac{55}{18} \quad \frac{50}{9} \quad 4.7 \quad \frac{44}{11} \quad \frac{38}{23} \quad \frac{38}{40}$$

$$\frac{58}{40} \quad \frac{60}{14} \quad 6.2 \quad \frac{63}{14} \quad \frac{50}{40}$$

$$\frac{58}{40} \quad \frac{58}{10} \quad 6.2 \quad \frac{67}{4} \quad \frac{70}{33} \quad \frac{67}{40}$$

$$\frac{5.7}{40} \quad \frac{5.8}{22} \quad 5.8 \quad \frac{5.8}{26} \quad \frac{5.8}{40}$$

$$\frac{50}{40} \quad \frac{57}{20} \quad 5.5 \quad \frac{55}{25} \quad \frac{5.2}{40}$$

$$\frac{4.3}{40} \quad \frac{45}{30} \quad 5.2 \quad \frac{52}{28} \quad \frac{4.6}{40}$$

$$\frac{3.3}{40} \quad \frac{37}{25} \quad 4.8 \quad \frac{46}{21} \quad \frac{37}{40}$$

$$\frac{1.7}{40} \quad \frac{20}{20} \quad 2.6 \quad \frac{28}{22} \quad \frac{30}{40}$$

Top slake 16 to 0

$$\frac{43}{40} \quad \frac{54}{17} \quad 6.4 \quad \frac{67}{11} \quad \frac{64}{23} \quad \frac{64}{40}$$

936.63 ✓

+50

32.4

17

33.4

+50

32.6

18

31.8

+50

31.1

19

X

31.3

+50

32.8 ✓

T.P.

7.06

943.22 ✓

0.47

936.16 ✓

20

35.6

+50

36.3

21

34.7

+50

33.7

+64

33.4

+79

30.4

Lt £ R4

$\frac{2.0}{40}$ $\frac{3.0}{19}$ 4.2 $\frac{4.6}{18}$ $\frac{5.6}{28}$ $\frac{6.0}{40}$

$\frac{1.3}{40}$ $\frac{2.0}{23}$ 3.2 $\frac{3.7}{8}$ $\frac{3.8}{20}$ $\frac{5.0}{40}$

$\frac{2.8}{40}$ $\frac{3.8}{19}$ 4.0 $\frac{4.3}{10}$ $\frac{4.0}{25}$ $\frac{4.8}{40}$

$\frac{3.8}{40}$ $\frac{4.6}{18}$ 4.8 $\frac{5.3}{20}$ $\frac{6.4}{40}$

$\frac{4.8}{40}$ $\frac{5.3}{22}$ 5.5 $\frac{5.8}{19}$ $\frac{6.3}{40}$

$\frac{4.2}{40}$ $\frac{4.8}{27}$ 5.3 $\frac{5.3}{20}$ $\frac{4.0}{40}$

$\frac{2.8}{40}$ $\frac{3.4}{33}$ $\frac{4.0}{12}$ 3.8 $\frac{3.7}{11}$ $\frac{2.7}{26}$ $\frac{3.4}{40}$

Top State Sta. 20+00

$\frac{5.1}{40}$ $\frac{6.3}{14}$ 7.6 $\frac{8.8}{12}$ $\frac{9.7}{27}$ $\frac{12.0}{40}$

$\frac{1.3}{40}$ $\frac{2.7}{24}$ 6.9 $\frac{8.6}{12}$ $\frac{9.4}{24}$ $\frac{12.3}{28}$ $\frac{13.4}{40}$

$\frac{3.8}{40}$ $\frac{7.5}{13}$ 8.5 $\frac{9.4}{18}$ $\frac{12.0}{21}$ $\frac{13.4}{32}$ $\frac{13.8}{40}$

$\frac{5.5}{40}$ $\frac{8.0}{23}$ 9.5 $\frac{9.7}{5}$ $\frac{12.7}{10}$ $\frac{13.7}{22}$ $\frac{13.8}{40}$

$\frac{6.0}{40}$ $\frac{8.4}{23}$ 9.8 $\frac{12.5}{5}$ $\frac{13.7}{26}$ $\frac{14.0}{40}$

$\frac{7.3}{40}$ $\frac{8.5}{29}$ $\frac{10.0}{5}$ 12.8 $\frac{13.5}{14}$ $\frac{13.8}{40}$

	+	H.I.	-	Elev
22		943.22 ✓		30.2
+50				30.0
+83	✓			30.9
+92				33.6
23				33.9
+50				36.2
T.F.	567	943.89 ✓	5.00	938.22 ✓
24				37.7
+50				36.7
25				36.6
+50				34.6
+70				33.8
26				33.4
+26		Toe Slope.		33.9

Lt ♀ Rt

$\frac{8.0}{40}$ $\frac{8.8}{18}$ $\frac{9.5}{15}$ $\frac{10.0}{70}$ $\frac{12.4}{6}$ 13.0 $\frac{13.4}{8}$ $\frac{13.7}{23}$ $\frac{13.8}{40}$

$\frac{8.2}{40}$ $\frac{8.7}{21}$ $\frac{9.2}{19}$ $\frac{10.0}{14}$ $\frac{12.5}{9}$ 13.2 $\frac{13.8}{21}$ $\frac{13.8}{40}$

$\frac{6.2}{40}$ $\frac{7.6}{29}$ $\frac{8.0}{15}$ $\frac{9.1}{12}$ $\frac{9.6}{5}$ 12.3 $\frac{13.3}{20}$ $\frac{13.5}{40}$

$\frac{6.6}{40}$ $\frac{7.2}{24}$ $\frac{8.0}{10}$ $\frac{9.2}{7}$ 9.6 $\frac{12.2}{4}$ $\frac{13.0}{17}$ $\frac{13.4}{40}$

$\frac{3.6}{40}$ $\frac{7.0}{27}$ $\frac{8.6}{2}$ 9.3 $\frac{9.8}{5}$ $\frac{11.7}{9}$ $\frac{12.6}{17}$ $\frac{13.1}{40}$

$\frac{0.3}{40}$ $\frac{2.2}{25}$ $\frac{5.4}{7}$ $\frac{6.4}{4}$ 7.0 $\frac{8.2}{12}$ $\frac{8.7}{30}$ $\frac{10.0}{40}$

Top stake sta. 24+00

$\frac{2.2}{40}$ $\frac{3.7}{29}$ $\frac{4.7}{16}$ 6.2 $\frac{7.5}{25}$ $\frac{8.1}{27}$ $\frac{8.1}{40}$
(31)

$\frac{3.6}{40}$ $\frac{4.8}{35}$ $\frac{6.2}{23}$ 7.2 $\frac{7.7}{18}$ $\frac{7.7}{26}$ $\frac{7.9}{30}$ $\frac{7.6}{40}$

$\frac{5.6}{40}$ $\frac{6.0}{18}$ $\frac{7.0}{13}$ 7.3 $\frac{8.8}{13}$ $\frac{8.8}{40}$

$\frac{7.0}{40}$ $\frac{6.8}{32}$ $\frac{8.0}{29}$ $\frac{8.5}{23}$ 9.3 $\frac{9.7}{33}$ $\frac{9.7}{40}$

$\frac{9.3}{40}$ $\frac{10.0}{30}$ 10.1 $\frac{10.1}{25}$ $\frac{10.0}{40}$

$\frac{10.2}{40}$ $\frac{10.5}{25}$ 10.5 $\frac{10.5}{23}$ $\frac{9.8}{40}$

$\frac{10.0}{40}$ $\frac{10.1}{24}$ 10.0 $\frac{10.0}{14}$ $\frac{9.6}{40}$

943.89

+38

42.0

+52

42.4

BM

5.06

938.83

Lt.

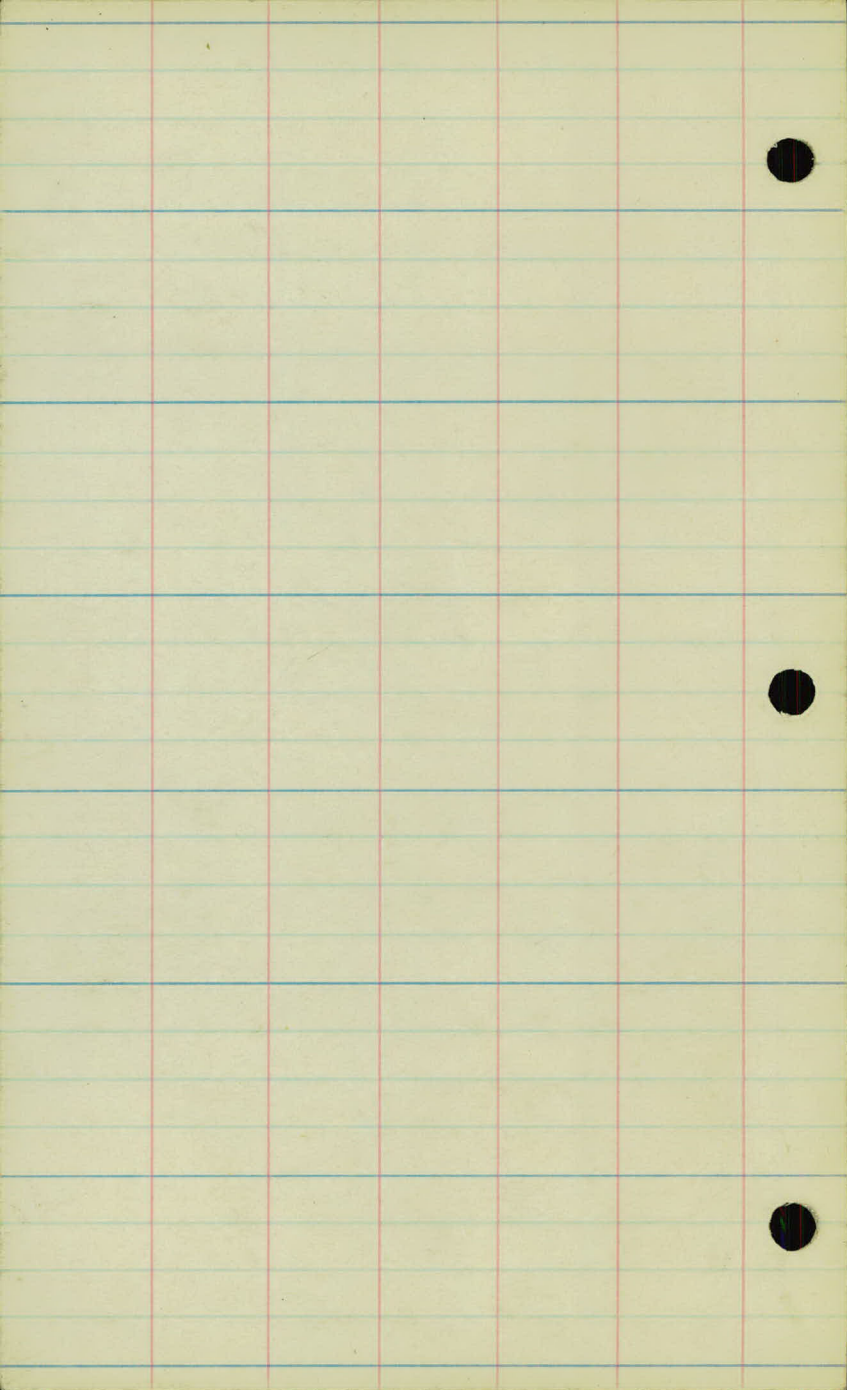
L

Rt

$\frac{2.1}{50}$ $\frac{2.1}{28}$ 1.9 $\frac{1.4}{30}$ $\frac{0.7}{50}$

$\frac{1.8}{50}$ $\frac{1.7}{27}$ 1.5 $\frac{1.0}{27}$ $\frac{0.4}{50}$

spike in T.P. 73' Rt 26+27



Plants in hand.

11/11/31

D.R.V.K.

Fair - Cool

Carley

Craze.

0+20 - Reize.

0+40 - Pl. 18" P₃ X 18 Haul. 4.00 Inv. 46.00

0+00 - 3+00 Cl. 7 tr. Gr. 3 tr.

2+78 Lt. No. culv req.

3+46 Rt. " " "

4+00 Lt Pl. 15" X 20' C.M.

5+12 Lt Pl. 15" X 20' C.M.

6+50 Lt. Rep 15" X 30' C.M.

6+50 Rt Pl. 15" X 20' C.M.

6+65 - 10+00 - Cl. & Gr. 66' wide ^{0.51} etc.

8+20 - Lt. No. culv req

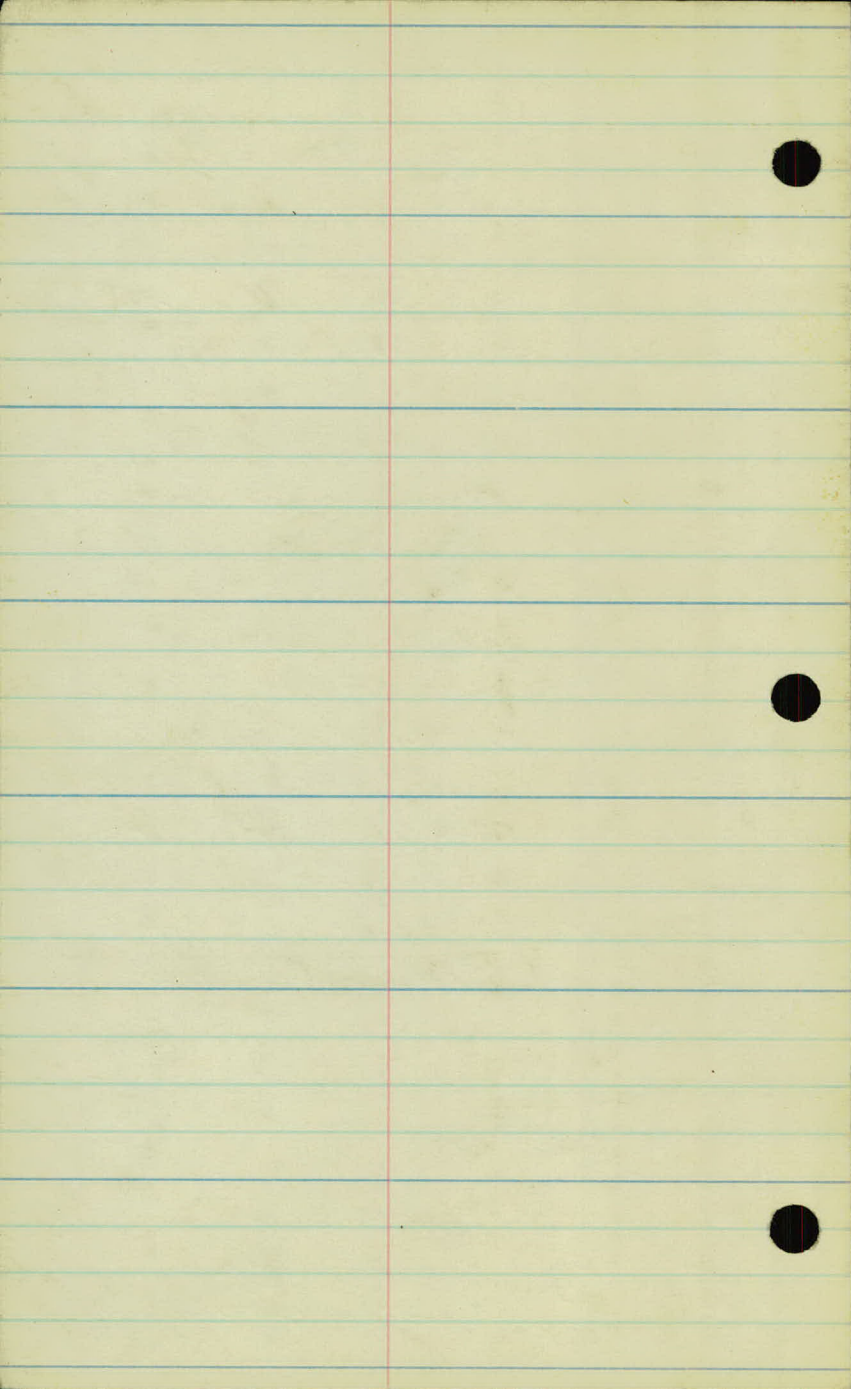
8+00 Rt - Pl. 15" X 20' C.M.

10+00 - 10+50 - Cl. 2 tr.

12+00 & No. culv. req.

12+00 - 13+00 Cl. & Gr. 3 tr.

26+00 - Pl. 24" P₃ X 66' Haul. 15.95 Inv. 33.00



2527