

Dr. 6-BK.124 24

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

PLAN.....Survey

North County Line Road.....

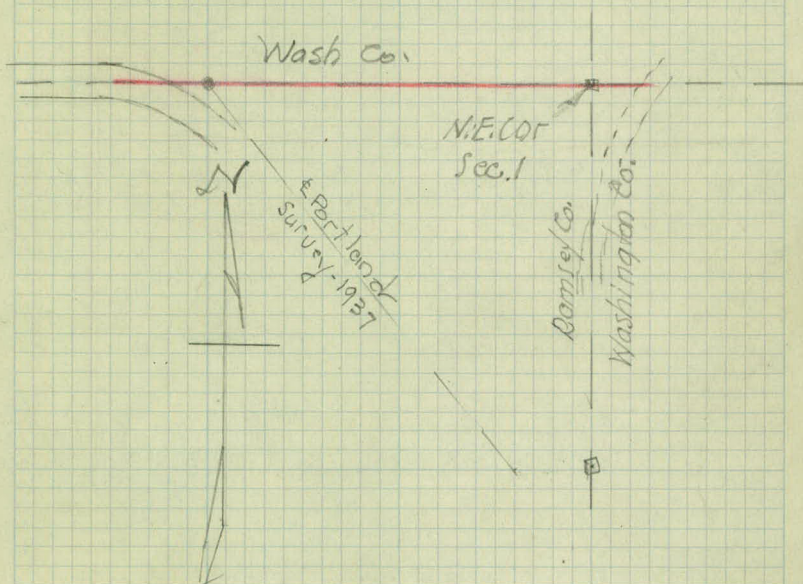
From Portland Ave. To E. Co. Line.....

Road Acc't. No.

Date Filed. 1937.....

File.....

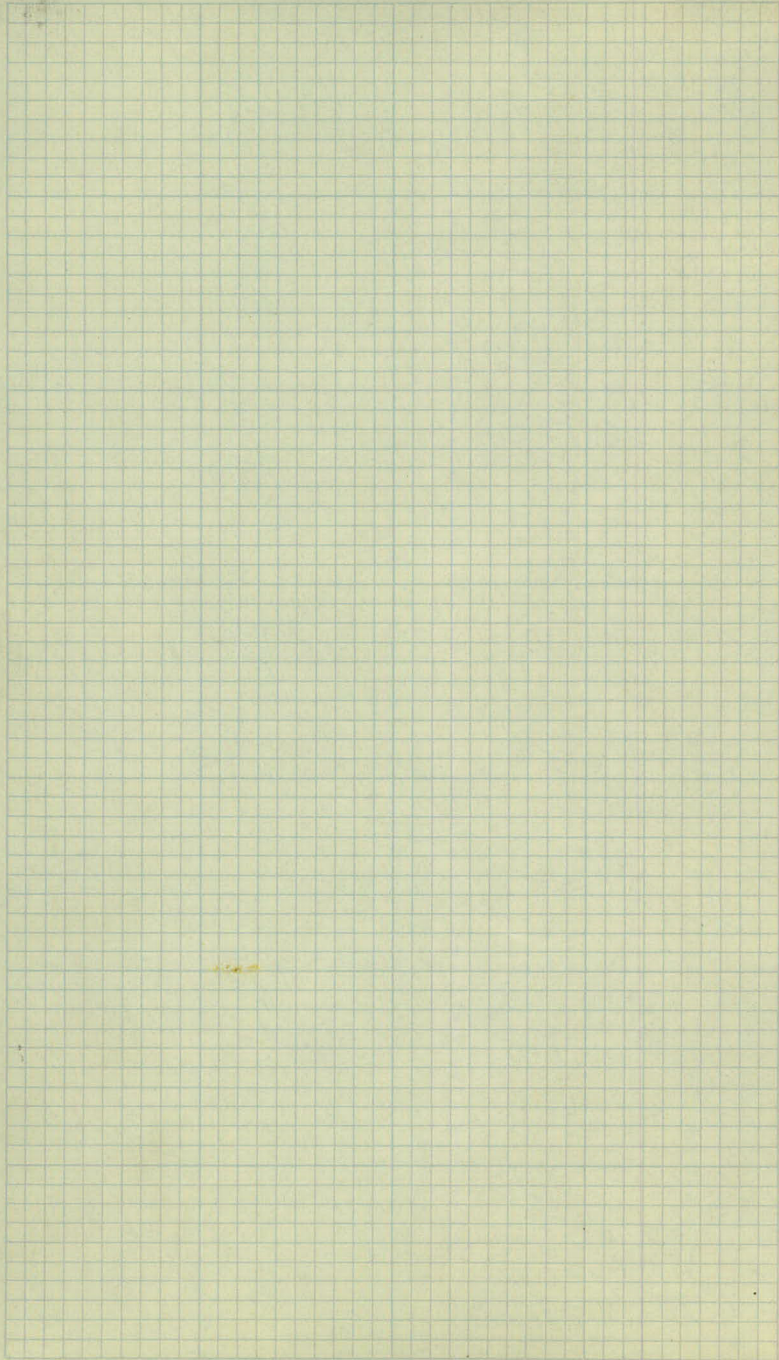
Plan Survey North County Line Road Portland Ave to E. Co. Line



Index

alignment.	1-2
Topography	3-6
Cross sections	7-11
Soundings.	12-13
Recom.	11

W. H. Carlson
Sept 10, 1937



N. Co. Line Rd.

$\frac{1}{4}$ E. of E. Co. Line to E. Co. Line.

angle

Station	Point	Lt	Rt.
---------	-------	----	-----

64+22.74	E. Trail Rd.		
----------	--------------	--	--

64+03	- E. Rd. S.		
-------	-------------	--	--

61+81.91	Moro.		
----------	-------	--	--

54+27.37			
----------	--	--	--

48+72.35	1/4-1/2 Cor. as Estab.		
----------	------------------------	--	--

46+16.75	P.O.T. = P.T. Portland		
----------	------------------------	--	--

Iron Mon.

Wash Co.



F.P. x

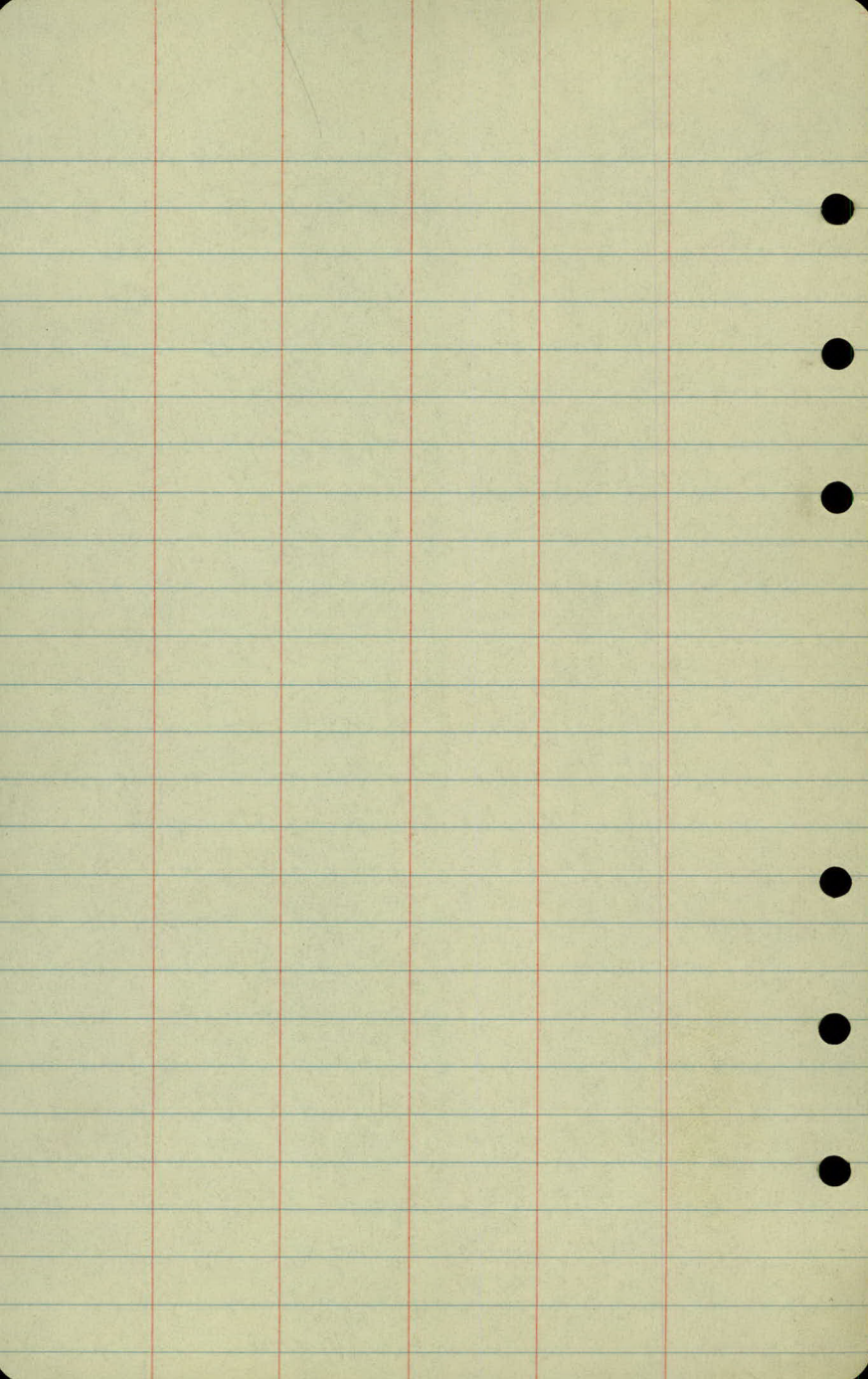
1.90

30' Bak

42.46

Boat Spike

$$\begin{array}{r} 48 + 12.35 \\ 12 + 10.88 \\ \hline 61 + 23.23 \\ 52.46 \end{array}$$



Topography.
N. Co. Line Rd.

50

49

48

16-28

180

1-24

47

10-18

46

45

F-2'

4

F-2'

+50-Tim-20'

Timber Line 17

F-2.5'

+50-Timber L. 12

+72.5-Rcon. 2'

+05-24' oak 22'

+98-18' oak 37'

+72+5

+24-Rcon. 1'

+24 End. F 75

Cultivated.

Scattered oaks.



57

56

55

54

53

52

51

Marsh-0' 5

+50-Marsh-40'

F-2'

+80-Marsh-0

+62-5" Pop-10'

F-2'

+99-6" W/11-4'

+85-6" Pop. 8'

+78-5" Pop. 4'

Marsh

F-0'

Timber Line 14'

+80-Timber 10'

+60-F-0'

+34-F. Cor. 1'

scatt
oaks

+50-Timber 20'

F-0'

Timber 18'

24" oak

F-1'

+30-Timber 20'

30" oak

+40-

Cult.

Pasture

F-1'

Scattered
oaks

Timber 19'

65

64

63

62

61

60

59

58

+50-F.Line 48'

+40-F.Cor. 91

+18-A Fen 37

CRd. +24'
 d Rd. +03'
 0015
 PASTURE

+72-F.Cor. 0'

+93-F.Cor. 0'

Pasture

+98-6" Oak-12'

+82-F.Cor. 0'

+86-24" Oak 27'

+78-8" Oak 21'

+18-6" Tr Oak 27'

+12-4" Oak-12'

+96-12" Tr. 19'

+93-12" Oak-13'

F-0'

F-1'

24" Small Oaks
 #55
 Pasture

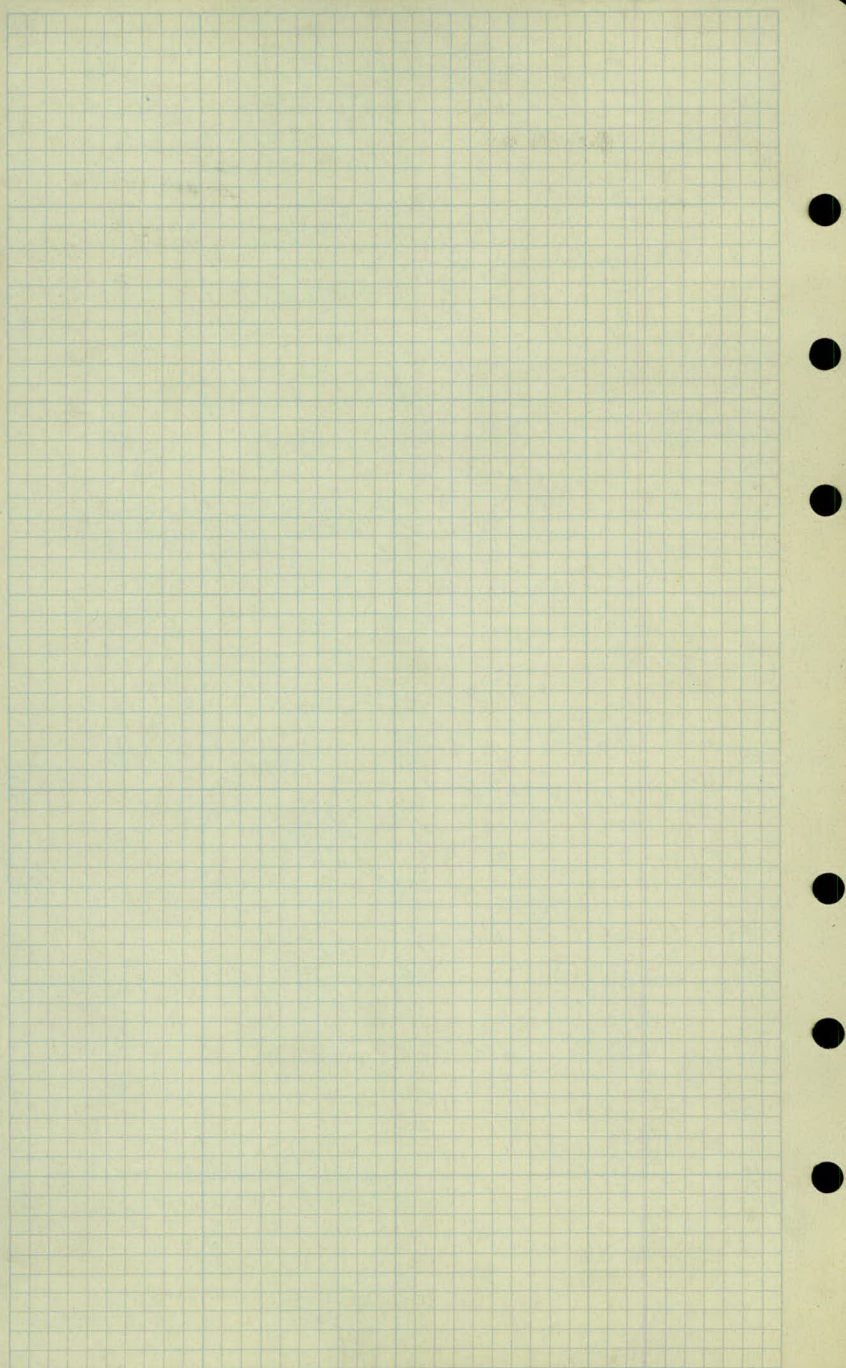
20-76'

Marsh
50'

F-2'

Marsh
40'+60-Marsh
0'

F-2.5



Cross Sections.

Sta.	+	π	-	Elev.
B.N.D.	4.97	944.50		939.53
46+50				938.0
47				38.2
+50				38.3
48				38.6
+50				38.7
49				39.1
+50				39.7
50				41.6
+50				40.3
51				40.3
T.P.	3.32	944.18	3.64	940.86

4.

E

Rt.

$$\begin{array}{r} 7.4 \\ 33 \end{array} \quad \begin{array}{r} 7.7 \\ 17 \end{array} \quad \begin{array}{r} 6.7 \\ 14 \end{array} \quad \begin{array}{r} 6.5 \\ 1 \end{array} \quad \begin{array}{r} 7.1 \\ 14 \end{array} \quad \begin{array}{r} 8.3 \\ 17 \end{array} \quad \begin{array}{r} 9.1 \\ 24 \end{array} \quad \begin{array}{r} 9.0 \\ 33 \end{array}$$

$$\begin{array}{r} 7.0 \\ 33 \end{array} \quad \begin{array}{r} 7.0 \\ 19 \end{array} \quad \begin{array}{r} 8.4 \\ 17 \end{array} \quad \begin{array}{r} 6.4 \\ 11 \end{array} \quad \begin{array}{r} 6.3 \\ 1 \end{array} \quad \begin{array}{r} 6.8 \\ 19 \end{array} \quad \begin{array}{r} 7.6 \\ 22 \end{array} \quad \begin{array}{r} 8.1 \\ 33 \end{array}$$

$$\begin{array}{r} 5.7 \\ 33 \end{array} \quad \begin{array}{r} 6.4 \\ 10 \end{array} \quad \begin{array}{r} 7.4 \\ 6 \end{array} \quad \begin{array}{r} 6.2 \\ 2 \end{array} \quad \begin{array}{r} 6.2 \\ 1 \end{array} \quad \begin{array}{r} 6.1 \\ 13 \end{array} \quad \begin{array}{r} 6.6 \\ 23 \end{array} \quad \begin{array}{r} 7.0 \\ 33 \end{array}$$

$$\begin{array}{r} 6.0 \\ 33 \end{array} \quad \begin{array}{r} 6.1 \\ 18 \end{array} \quad \begin{array}{r} 5.9 \\ 1 \end{array} \quad \begin{array}{r} 8.0 \\ 5 \end{array} \quad \begin{array}{r} 8.0 \\ 8 \end{array} \quad \begin{array}{r} 5.2 \\ 13 \end{array} \quad \begin{array}{r} 5.6 \\ 17 \end{array} = 5.6 \text{ bh.} \quad \begin{array}{r} 6.3 \\ 33 \end{array}$$

$$\begin{array}{r} 5.2 \\ 33 \end{array} \quad \begin{array}{r} 5.8 \\ 20 \end{array} \quad \begin{array}{r} 5.5 \\ 8 \end{array} \quad \begin{array}{r} 5.8 \\ 1 \end{array} \quad \begin{array}{r} 7.0 \\ 5 \end{array} \quad \begin{array}{r} 7.0 \\ 8 \end{array} \quad \begin{array}{r} 5.2 \\ 11 \end{array} \quad \begin{array}{r} 5.2 \\ 36 \end{array} \quad \begin{array}{r} 6.1 \\ 55 \end{array} = 5.6 \text{ bh.}$$

$$\begin{array}{r} 5.5 \\ 33 \end{array} \quad \begin{array}{r} 6.0 \\ 20 \end{array} \quad \begin{array}{r} 5.2 \\ 9 \end{array} \quad \begin{array}{r} 5.4 \\ 1 \end{array} \quad \begin{array}{r} 5.8 \\ 20 \end{array} \quad \begin{array}{r} 6.0 \\ 33 \end{array}$$

$$\begin{array}{r} 4.9 \\ 33 \end{array} \quad \begin{array}{r} 4.4 \\ 8 \end{array} \quad \begin{array}{r} 4.8 \\ 1 \end{array} \quad \begin{array}{r} 5.2 \\ 15 \end{array} \quad \begin{array}{r} 6.0 \\ 33 \end{array}$$

$$\begin{array}{r} 3.5 \\ 33 \end{array} \quad \begin{array}{r} 3.7 \\ 10 \end{array} \quad \begin{array}{r} 3.9 \\ 1 \end{array} \quad \begin{array}{r} 4.2 \\ 8 \end{array} \quad \begin{array}{r} 5.3 \\ 16 \end{array} \quad \begin{array}{r} 6.1 \\ 33 \end{array}$$

$$\begin{array}{r} 3.7 \\ 33 \end{array} \quad \begin{array}{r} 4.3 \\ 10 \end{array} \quad \begin{array}{r} 4.2 \\ 1 \end{array} \quad \begin{array}{r} 4.3 \\ 10 \end{array} \quad \begin{array}{r} 4.9 \\ 23 \end{array} \quad \begin{array}{r} 5.4 \\ 33 \end{array}$$

$$\begin{array}{r} 4.1 \\ 33 \end{array} \quad \begin{array}{r} 4.3 \\ 10 \end{array} \quad \begin{array}{r} 4.2 \\ 1 \end{array} \quad \begin{array}{r} 4.8 \\ 10 \end{array} \quad \begin{array}{r} 5.4 \\ 15 \end{array} \quad \begin{array}{r} 5.6 \\ 33 \end{array}$$

7.8
8.1
8.4
8.7
9.1
9.4
9.7
10.0
10.3
10.6
10.9
11.2
11.5
11.8
12.1
12.4
12.7
13.0
13.3
13.6
13.9
14.2
14.5
14.8
15.1
15.4
15.7
16.0
16.3
16.6
16.9
17.2
17.5
17.8
18.1
18.4
18.7
19.0
19.3
19.6
19.9
20.2
20.5
20.8
21.1
21.4
21.7
22.0
22.3
22.6
22.9
23.2
23.5
23.8
24.1
24.4
24.7
25.0
25.3
25.6
25.9
26.2
26.5
26.8
27.1
27.4
27.7
28.0
28.3
28.6
28.9
29.2
29.5
29.8
30.1
30.4
30.7
31.0
31.3
31.6
31.9
32.2
32.5
32.8
33.1
33.4
33.7
34.0
34.3
34.6
34.9
35.2
35.5
35.8
36.1
36.4
36.7
37.0
37.3
37.6
37.9
38.2
38.5
38.8
39.1
39.4
39.7
40.0
40.3
40.6
40.9
41.2
41.5
41.8
42.1
42.4
42.7
43.0
43.3
43.6
43.9
44.2
44.5
44.8
45.1
45.4
45.7
46.0
46.3
46.6
46.9
47.2
47.5
47.8
48.1
48.4
48.7
49.0
49.3
49.6
49.9
50.2
50.5
50.8
51.1
51.4
51.7
52.0
52.3
52.6
52.9
53.2
53.5
53.8
54.1
54.4
54.7
55.0
55.3
55.6
55.9
56.2
56.5
56.8
57.1
57.4
57.7
58.0
58.3
58.6
58.9
59.2
59.5
59.8
60.1
60.4
60.7
61.0
61.3
61.6
61.9
62.2
62.5
62.8
63.1
63.4
63.7
64.0
64.3
64.6
64.9
65.2
65.5
65.8
66.1
66.4
66.7
67.0
67.3
67.6
67.9
68.2
68.5
68.8
69.1
69.4
69.7
70.0
70.3
70.6
70.9
71.2
71.5
71.8
72.1
72.4
72.7
73.0
73.3
73.6
73.9
74.2
74.5
74.8
75.1
75.4
75.7
76.0
76.3
76.6
76.9
77.2
77.5
77.8
78.1
78.4
78.7
79.0
79.3
79.6
79.9
80.2
80.5
80.8
81.1
81.4
81.7
82.0
82.3
82.6
82.9
83.2
83.5
83.8
84.1
84.4
84.7
85.0
85.3
85.6
85.9
86.2
86.5
86.8
87.1
87.4
87.7
88.0
88.3
88.6
88.9
89.2
89.5
89.8
90.1
90.4
90.7
91.0
91.3
91.6
91.9
92.2
92.5
92.8
93.1
93.4
93.7
94.0
94.3
94.6
94.9
95.2
95.5
95.8
96.1
96.4
96.7
97.0
97.3
97.6
97.9
98.2
98.5
98.8
99.1
99.4
99.7
100.0

Sta.	T	A	-	Elev.
		944.18		
51+50				40.7
52				40.9
+50				38.6
53				36.6
+50				36.3
54				37.4
+32				37.1
+60				33.9
T.P.	0.30	932.37	12.11	932.07
55				26.2
+15				22.7
+50				21.7
56				21.5

4.

2

12.

$$\begin{array}{r} 35 \\ 33 \end{array} \quad \begin{array}{r} 38 \\ 10 \end{array} \quad \begin{array}{r} 32 \\ 7 \end{array} \quad \begin{array}{r} 35 \\ 1 \end{array} \quad \begin{array}{r} 35 \\ 10 \end{array} \quad \begin{array}{r} 43 \\ 15 \end{array} \quad \begin{array}{r} 43 \\ 35 \end{array}$$

$$\begin{array}{r} 36 \\ 33 \end{array} \quad \begin{array}{r} 35 \\ 9 \end{array} \quad \begin{array}{r} 28 \\ 6 \end{array} \quad \begin{array}{r} 33 \\ 1 \end{array} \quad \begin{array}{r} 30 \\ 08 \end{array} \quad \begin{array}{r} 38 \\ 12 \end{array} \quad \begin{array}{r} 34 \\ 33 \end{array}$$

$$\begin{array}{r} 48 \\ 33 \end{array} \quad \begin{array}{r} 53 \\ 14 \end{array} \quad \begin{array}{r} 51 \\ 7 \end{array} \quad \begin{array}{r} 50 \\ 3 \end{array} \quad \begin{array}{r} 56 \\ 1 \end{array} \quad \begin{array}{r} 60 \\ 10 \end{array} \quad \begin{array}{r} 70 \\ 14 \end{array} \quad \begin{array}{r} 74 \\ 33 \end{array}$$

$$\begin{array}{r} 67 \\ 33 \end{array} \quad \begin{array}{r} 75 \\ 10 \end{array} \quad \begin{array}{r} 68 \\ 5 \end{array} \quad \begin{array}{r} 76 \\ 1 \end{array} \quad \begin{array}{r} 80 \\ 18 \end{array} \quad \begin{array}{r} 74 \\ 33 \end{array}$$

$$\begin{array}{r} 77 \\ 33 \end{array} \quad \begin{array}{r} 81 \\ 10 \end{array} \quad \begin{array}{r} 73 \\ 3 \end{array} \quad \begin{array}{r} 79 \\ 1 \end{array} \quad \begin{array}{r} 76 \\ 20 \end{array} \quad \begin{array}{r} 65 \\ 33 \end{array}$$

$$\begin{array}{r} 86 \\ 33 \end{array} \quad \begin{array}{r} 78 \\ 11 \end{array} \quad \begin{array}{r} 68 \\ 5 \end{array} \quad \begin{array}{r} 68 \\ 1 \end{array} \quad \begin{array}{r} 53 \\ 13 \end{array} \quad \begin{array}{r} 47 \\ 33 \end{array}$$

$$\begin{array}{r} 89 \\ 33 \end{array} \quad \begin{array}{r} 77 \\ 12 \end{array} \quad \begin{array}{r} 70 \\ 5 \end{array} \quad \begin{array}{r} 71 \\ 1 \end{array} \quad \begin{array}{r} 63 \\ 13 \end{array} \quad \begin{array}{r} 75 \\ 33 \end{array}$$

$$\begin{array}{r} 128 \\ 33 \end{array} \quad \begin{array}{r} 114 \\ 12 \end{array} \quad \begin{array}{r} 101 \\ 2 \end{array} \quad \begin{array}{r} 103 \\ 1 \end{array} \quad \begin{array}{r} 92 \\ 9 \end{array} \quad \begin{array}{r} 107 \\ 33 \end{array}$$

$$\begin{array}{r} 75 \\ 33 \end{array} \quad \begin{array}{r} 71 \\ 20 \end{array} \quad \begin{array}{r} 58 \\ 4 \end{array} \quad \begin{array}{r} 62 \\ 1 \end{array} \quad \begin{array}{r} 58 \\ 21 \end{array} \quad \begin{array}{r} 55 \\ 33 \end{array}$$

$$\begin{array}{r} 97 \\ 33 \end{array} \quad \begin{array}{r} 97 \\ 1 \end{array} \quad \begin{array}{r} 87 \\ 33 \end{array}$$

$$\begin{array}{r} 107 \\ 33 \end{array} \quad \begin{array}{r} 107 \\ 1 \end{array} \quad \begin{array}{r} 105 \\ 33 \end{array}$$

$$\begin{array}{r} 107 \\ 33 \end{array}$$

$$\begin{array}{r} 109 \\ 1 \end{array}$$

$$\begin{array}{r} 107 \\ 33 \end{array}$$

Pl. 24" Culv. Equal.

D. 24" Culv. Equal.

$$\begin{array}{r} 41.2 \\ 10.8 \\ 32 \end{array}$$

Sta.	+	x	-	Elev.
		932.37		
56+50				21.7
57				23.0
+4/5				24.7
58				22.6
+50				22.6
59				25.0
T.P.	5.39	936.39	1.37	931.00
+55				29.9
1				
60+0				31.8
+50				30.3
61+0				30.5
+50				28.7
61+81.91				28.3
B.M.			8.11	928.28

LT. L RT

$$\frac{10.3}{33}$$

$$\frac{10.1}{33}$$

$$\frac{10.4}{33}$$

$$\frac{9.3}{33}$$

$$\frac{9.7}{10}$$

$$\frac{9.4}{10}$$

$$\frac{9.0}{10}$$

$$\frac{9.7}{33}$$

$$\frac{7.6}{33}$$

$$\frac{7.7}{9}$$

$$\frac{7.7}{9}$$

$$\frac{8.1}{19}$$

$$\frac{9.9}{29}$$

$$\frac{9.9}{33}$$

$$\frac{9.7}{33}$$

$$\frac{9.8}{10}$$

$$\frac{9.8}{10}$$

$$\frac{10.3}{33}$$

$$\frac{7.4}{33}$$

$$\frac{8.6}{8}$$

$$\frac{9.8}{9}$$

$$\frac{10.0}{9}$$

$$\frac{10.3}{33}$$

$$\frac{3.5}{33}$$

$$\frac{5.5}{6}$$

$$\frac{7.4}{10}$$

$$\frac{10.0}{18}$$

$$\frac{10.2}{33}$$

LSLko

$$\frac{3.0}{50}$$

$$\frac{3.6}{33}$$

$$\frac{4.8}{5}$$

$$\frac{6.5}{10}$$

$$\frac{8.1}{9}$$

$$\frac{12.7}{34}$$

$$\frac{12.2}{140}$$

$$\frac{2.4}{50}$$

$$\frac{4.0}{17}$$

$$\frac{3.8}{5}$$

$$\frac{4.6}{10}$$

$$\frac{7.0}{17}$$

$$\frac{11.2}{36}$$

$$\frac{14.1}{50}$$

$$\frac{3.2}{50}$$

$$\frac{5.0}{16}$$

$$\frac{4.8}{5}$$

$$\frac{5.1}{10}$$

$$\frac{7.3}{15}$$

$$\frac{13.7}{50}$$

$$\frac{5.1}{50}$$

$$\frac{6.1}{13}$$

$$\frac{5.8}{4}$$

$$\frac{5.9}{10}$$

$$\frac{8.0}{20}$$

$$\frac{12.6}{50}$$

$$\frac{14.0}{58}$$

$$\frac{8.5}{50}$$

$$\frac{8.3}{19}$$

$$\frac{7.6}{3}$$

$$\frac{7.7}{10}$$

$$\frac{8.7}{27}$$

$$\frac{11.4}{50}$$

$$\frac{14.0}{70}$$

$$\frac{9.2}{50}$$

$$\frac{9.2}{21}$$

$$\frac{8.5}{4}$$

$$\frac{8.1}{10}$$

$$\frac{8.7}{27}$$

$$\frac{11.4}{50}$$

pop Iron Mon.

Edge Mark.

Sta. + - Elev.

936.39

N. Co. Line extd into Wash Co.

6240

+50

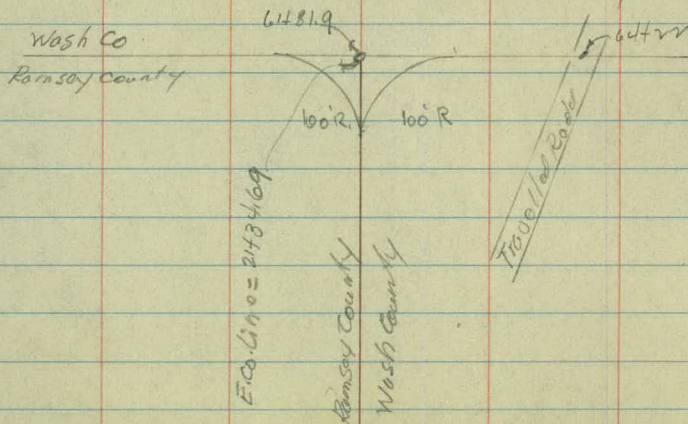
6340

+70

6440

+22 1/2 Rd.

End grading @ Sta. 6422 in
Wash County.



L

E

Rt

$$\frac{9.6}{33}$$

$$\frac{9.6}{17}$$

$$\frac{8.8}{3}$$

$$9.0$$

$$\frac{9.1}{33}$$

$$\frac{9.8}{33}$$

$$\frac{10.2}{15}$$

$$\frac{10.0}{5}$$

$$\frac{10.2}{-}$$

$$\frac{10.2}{10}$$

$$\frac{11.6}{33}$$

$$\frac{10.0}{33}$$

$$\frac{11.6}{17}$$

$$\frac{11.9}{8}$$

$$\frac{12.1}{-}$$

$$\frac{12.7}{15}$$

$$\frac{13.4}{33}$$

$$\frac{8.6}{33}$$

$$\frac{10.1}{9}$$

$$\frac{11.3}{4}$$

$$\frac{11.0}{-}$$

$$\frac{12.2}{12}$$

$$\frac{13.2}{33}$$

$$\frac{10.0}{33}$$

$$\frac{12.0}{22}$$

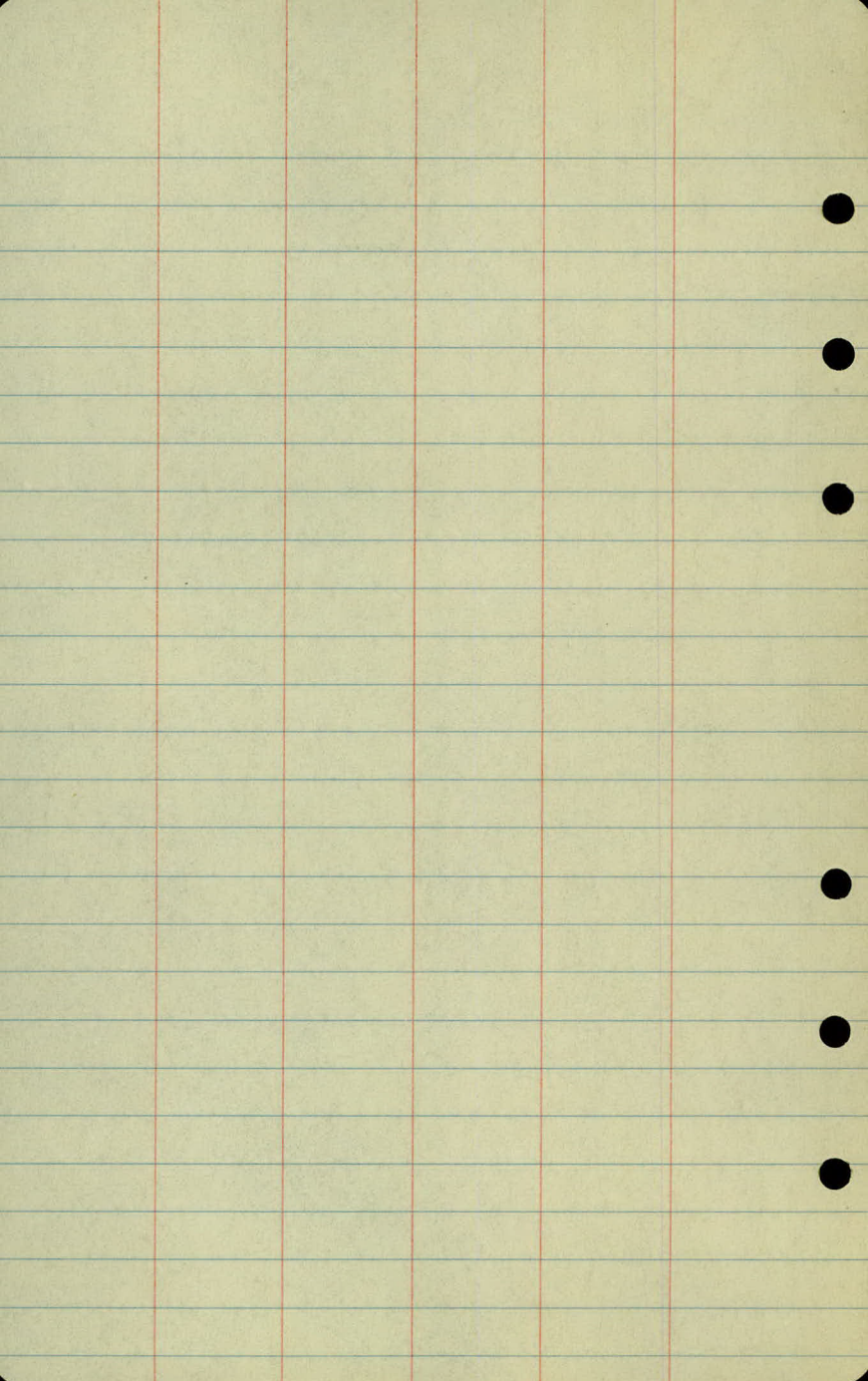
$$\frac{11.6}{-}$$

$$\frac{11.4}{21}$$

- Rd.

$$\frac{11.5}{50}$$

$$\frac{11.4}{-}$$



Soundings.

No. Co Line Rd.

Sta.

Depth of Peat.

5410

+30

58

+75

+45

57

+30

56

+30

55+15

Lt.

¢

Rt.

$$\begin{array}{r} 80 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 90 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 20 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 90 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 20 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ \hline 20 \end{array}$$

00 - Pent.

00 Pent.

$$\begin{array}{r} 90 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 10 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 40 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 50 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 60 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 60 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 50 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 60 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ \hline 20 \end{array}$$

00 Pent.

