Book #19, Dr. 11

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

PLAN Survey

WESTERN AVE.

From Co. Rd. "B" To Co. Rd. "C"

Road Acc't. No.

Date Filed 1935 File 11

Plan Survey

Western Ave - Co. Rd. B - Co. Rd. C

INDEX

Plan Complete
Aug 5 '35

Alignment.

26+44.80 P.O.T.

17+55.65 P.O.T.

13+55.55

13+25.35 P.O.T.

4+28.65 P.O.T.

0+00

Cor. F.P. W.H.C.
A.D.C.
D.S. Nov. 29, 35
J.B.
L.D.G.

44.36
Mon.
Down .4
56.76 12" Oak.

19+54.7 Drop Pipe
29.93'

Hub.

Ardent
Iron Mon. 25 Yrs. Old.
0.65
30.7'
36" C.M. Stp.
88.43'
Approx ℄ Minn. Ave Spike
66.45
12" Oak

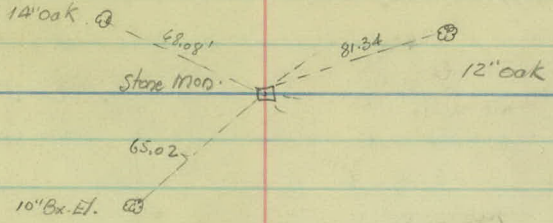
Hub.

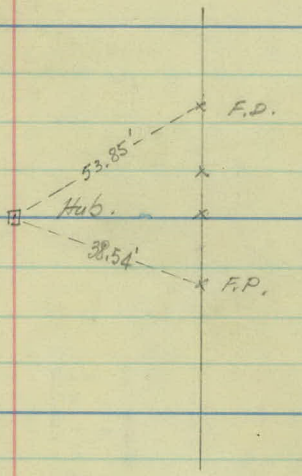
℄ Grosley Rd. Stone Mon.

52 +95.37 Mon.

44+67.45 P.O.T

37+44.45 P.O.T.


14" oak
68.08'
81.34'
12" oak
Stone Mon.
65.02'
10" Bx. El.


F.D.
53.85'
Hub.
38.54'
F.P.

Topography.

5

4

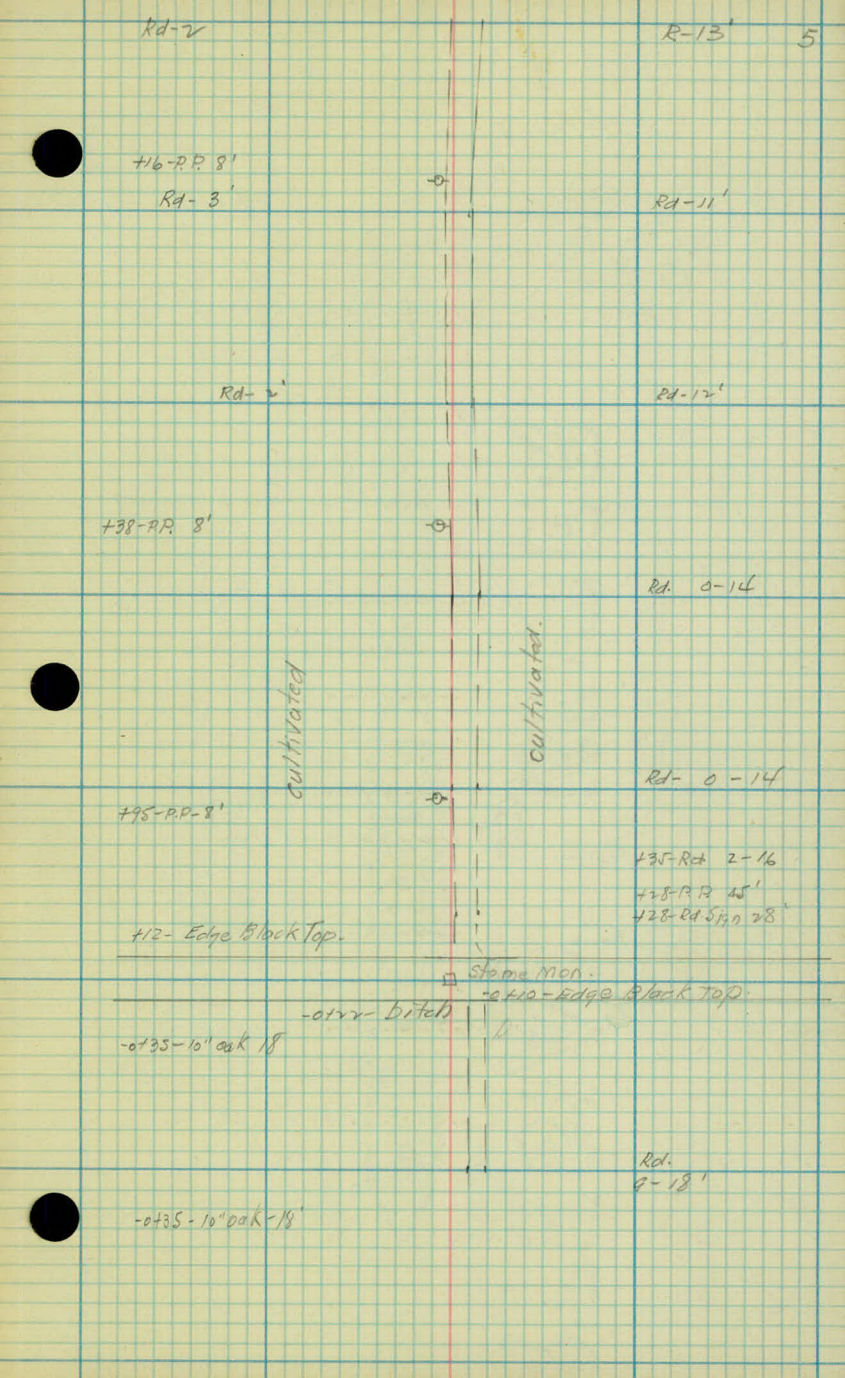
3

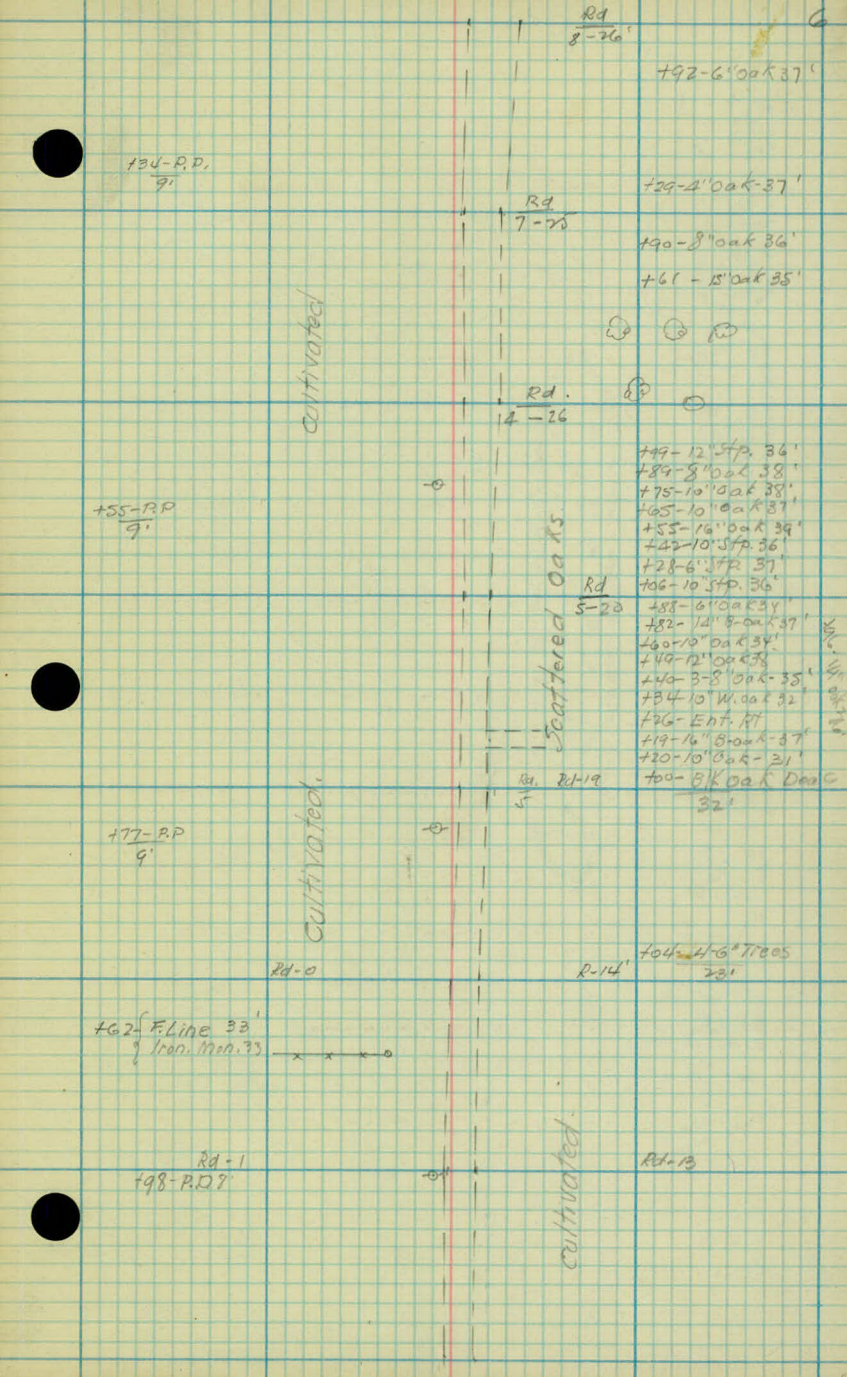
2

1

0+0 ℄ Co. Rd. "B" + T. H. #36

-1+0


Rd-2'
R-13'
+16-P.P. 8'
Rd- 3'
Rd-11'
Rd- 2'
Rd-12'
+38-P.P. 8'
Rd. 0-14
Cultivated
Cultivated
Rd- 0-14
+95-P.P-8'
+35-Rd 2-16
+28-P.P 45'
+28-Rd Sign 28'
+12- Edge Black Top.
Stone Mon.
-0+10- Edge Black Top.
-0+35- 10" oak 18
Rd.
2-18'
-0+35-10" oak-18'


Rd
8-76'
+92-6"Oak 37'
+34-P.P.
9'
+29-4"Oak-37'
Rd
7-75
+90-8"Oak 36'
+61-15"Oak 35'
Cultivated
Rd.
14-26
+49-12"Stp. 36'
+89-8"Oak 38'
+75-10"Oak 38'
+65-10"Oak 37'
+55-16"Oak 39'
+42-10"Stp. 36'
+28-6"Stp. 37'
+55-PP
9'
Rd
5-20
+106-10"Stp. 36'
+88-6"Oak 34'
+82-12"&6-Oak 37'
+60-10"Oak 34'
+49-12"Oak 38'
+40-3-8"Oak-35'
+34-10"W.oak 32'
+26-Ent. Rt
+19-16"&-Oak-37'
+20-10"Oak-31'
Scattered Oaks
Rd. Rd-19
+00-B.K Oak Dead
32'
+77-P.P
9'
Cultivated
+04-4-6"Trees
23'
Rd-0
R-14'
+62-F.Line 33'
Iron. Mon. 33
Rd-1
+98-P.O.9'
Cultivated
Rd-13

18

17

16

15

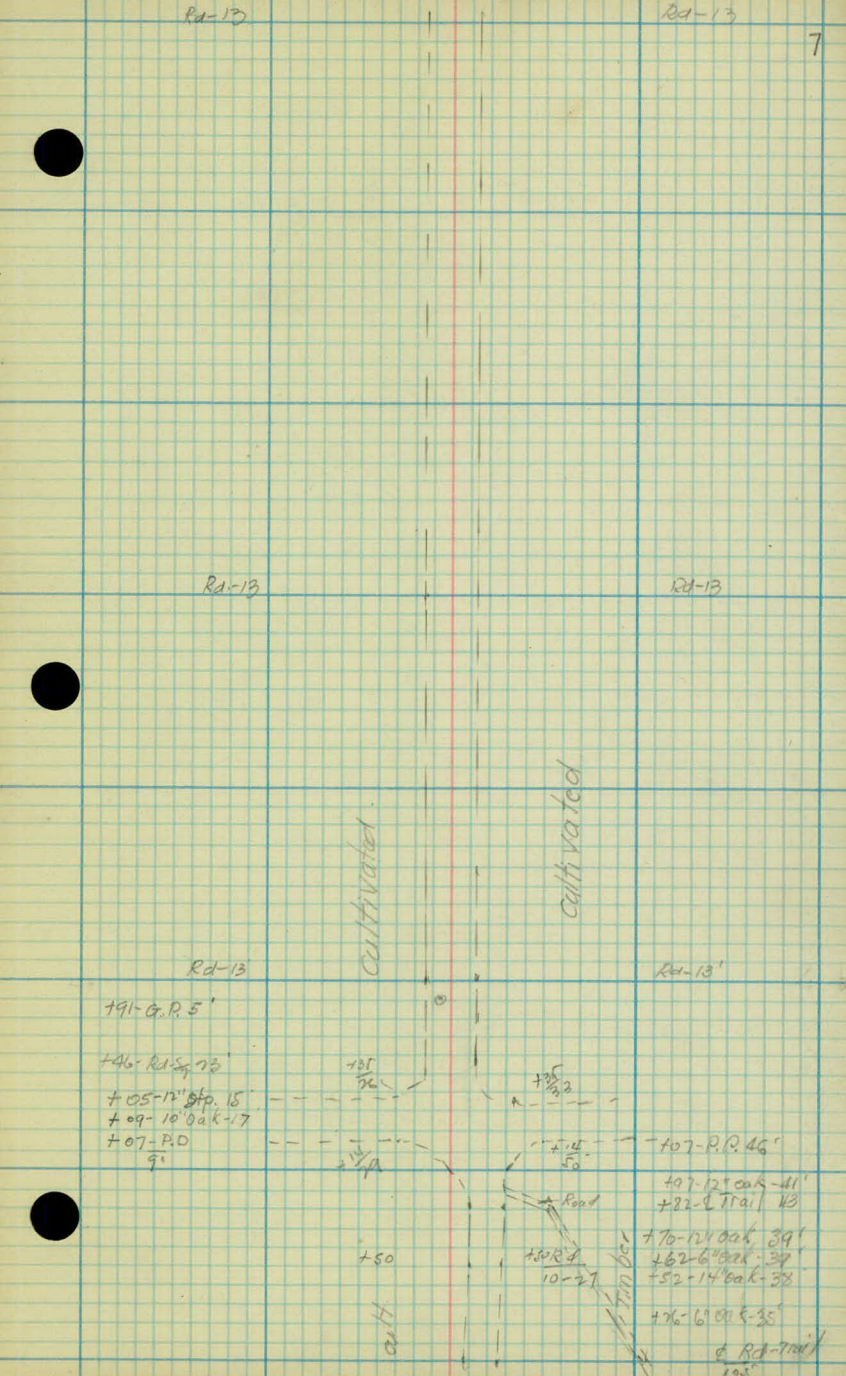
14

(+50 - Begin of New Grade)

+75 Minn. Ave. - Gravelled (Some Oil)

13

12


Rd-13
Rd-13
Rd-13
Rd-13
Rd-13
Rd-13
cultivated
cultivated
+91-G.P. 5'
+46-Rd-Sq 73'
+05-12" Stp. 15'
+09-10" Oak-17'
+07-P.O
9'
+35
32
+35
32
+1.4
50
+07-P.R. 46'
+07-12" Oak-41'
+82-C Trail 43
+70-12" Oak 39'
+62-6" Oak-37'
+52-14" Oak-38'
+76-6" Oak-35'
Road
+50
+50 R.A.
10-27
Ø Rd-7 Trail
105'

25

24

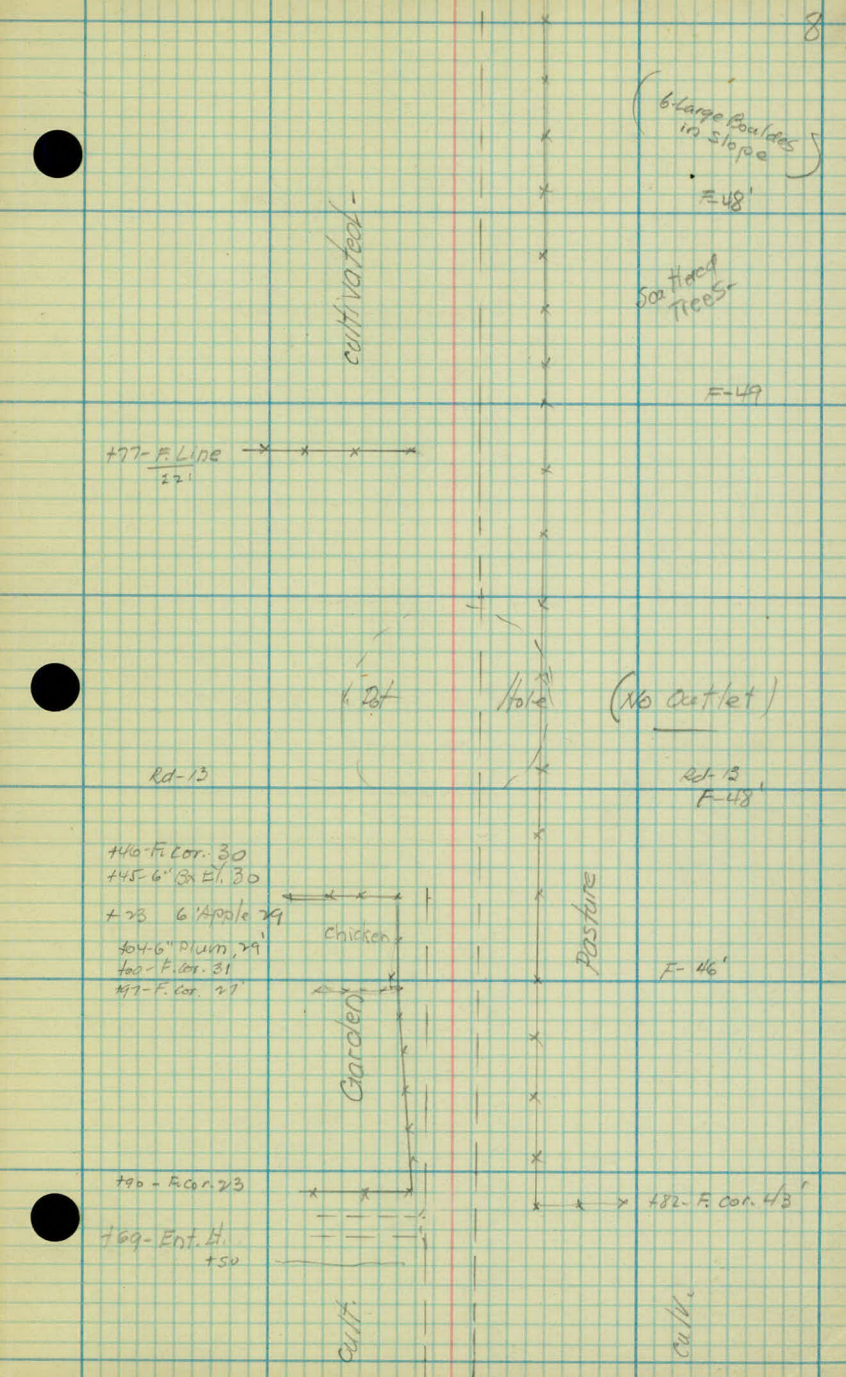
23

22

21

20

19


6 Large Boulders in slope
F-48'
50 Hard Trees
F-49
cultivated
+77 - F. Line
22'
+ 28'
Hole
(No outlet)
Rd-13
Rd-13
F-48'
+46 - F. Cor. 30
+45 - 6" Bk. El. 30
+28 6' Apple x9
+64 - 6" Plum, 29'
+60 - F. Cor. 31
+47 - F. Cor. 27'
Chicken
Garden
Pasture
F- 46'
+90 - F. Cor. 43
+69 - Ent. H.
+50
+82 - F. Cor. 43'
Cult.
Cult.

32

31

30

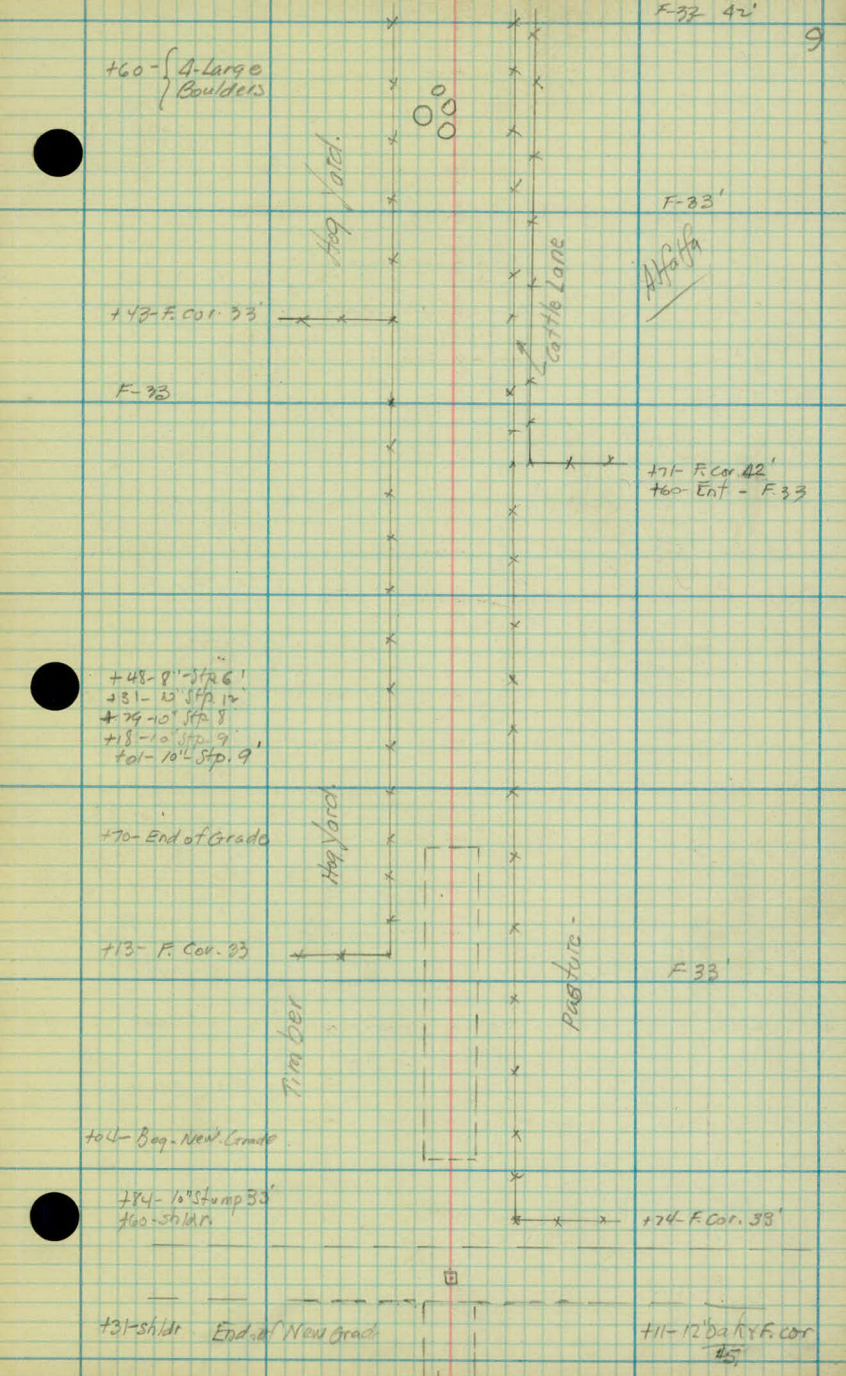
29

28

27

+44.80 ℄ B-2 Mon.

26


F-37 42'
+60 - { 4-Large Boulders
F-33'
Hay Field
Alfalfa
+43-F. Cor. 33'
Cattle Lane
F-33
+71- F. Cor 42'
+60- Ent - F 33
+48-8"-Stp 6'
+31-12" Stp 12'
+79-10" Stp 8'
+18-10" Stp. 9'
+01-10"- Stp. 9'
+70- End of Grade
Hay Field
+13- F. Cor. 33
F 33'
Timber
Pasture
+04- Beg. New Grade
+84-16" Stump 33'
+60-Shldr.
+74- F. Cor. 38'
+31-Shldr. End of New Grade
+11-12" Oak F. Cor

Mon. has been hit
& moved -
(re-establish after grading)

39

38

37

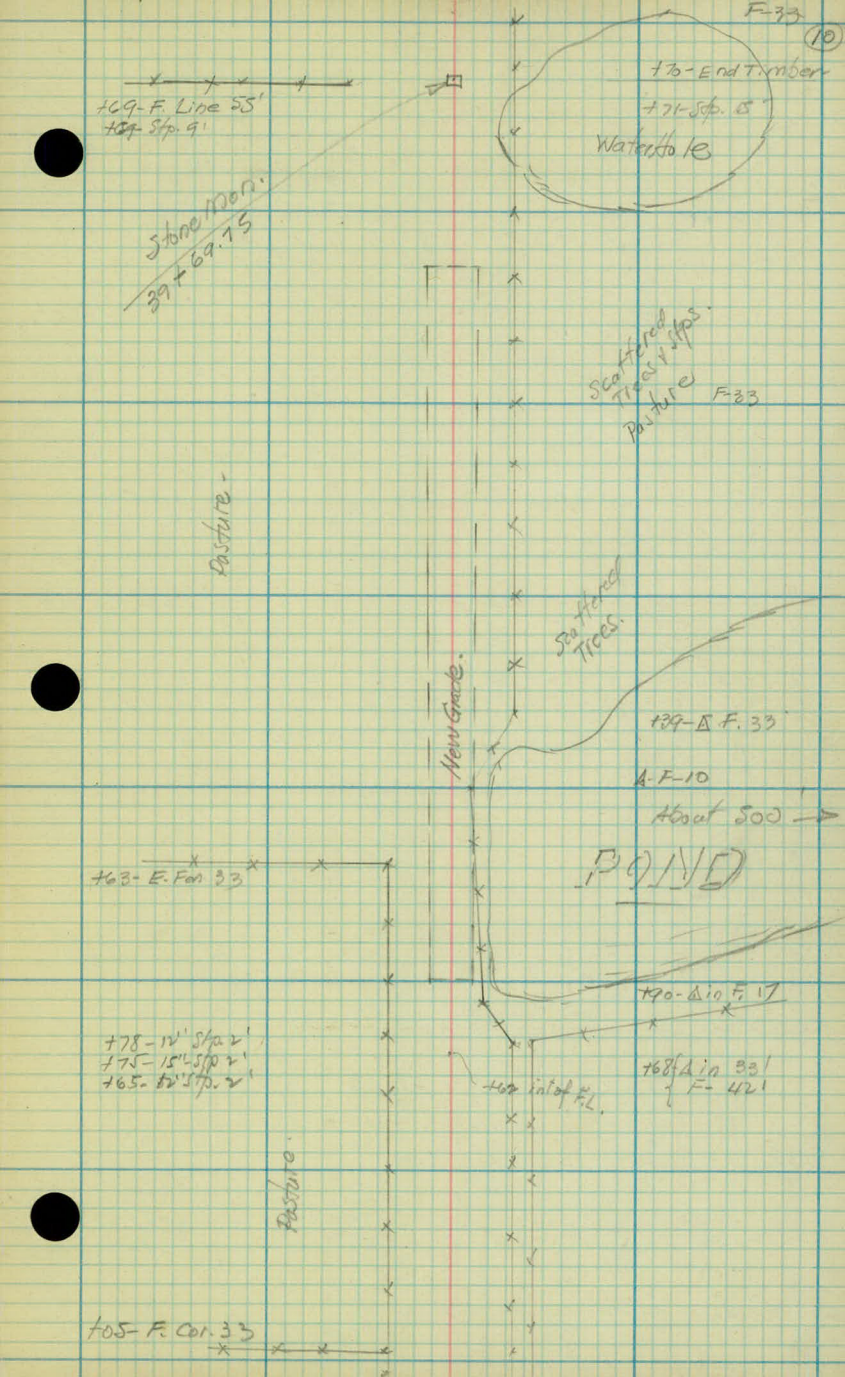
36

35

34

33

Begin New Grade
Part


F-33
10
773-End Timber
771-Stp. 6'
Waterhole
769-F. Line 55'
Stp. 9'
Stonewall
39+69.75
Scattered Trees & Stps.
Pasture
F-33
Pasture.
Scattered Trees.
New Grade.
739-Δ F. 33
A-F-10
About 500
POND
763-E. Fen 33
778-12' Stp. 2'
775-15' Stp. 2'
765-12' Stp. 2'
790-Δ in F. 17
768-Δ in 33'
F- 42'
768 into F.L.
Pasture.
705-F. Cor. 33

F-33

2 large Boulders

+53-12' Sfp. 7'

F-33'

Pasture

Pasture

53

+75.37 - mon = ℄ Co. Road "C"

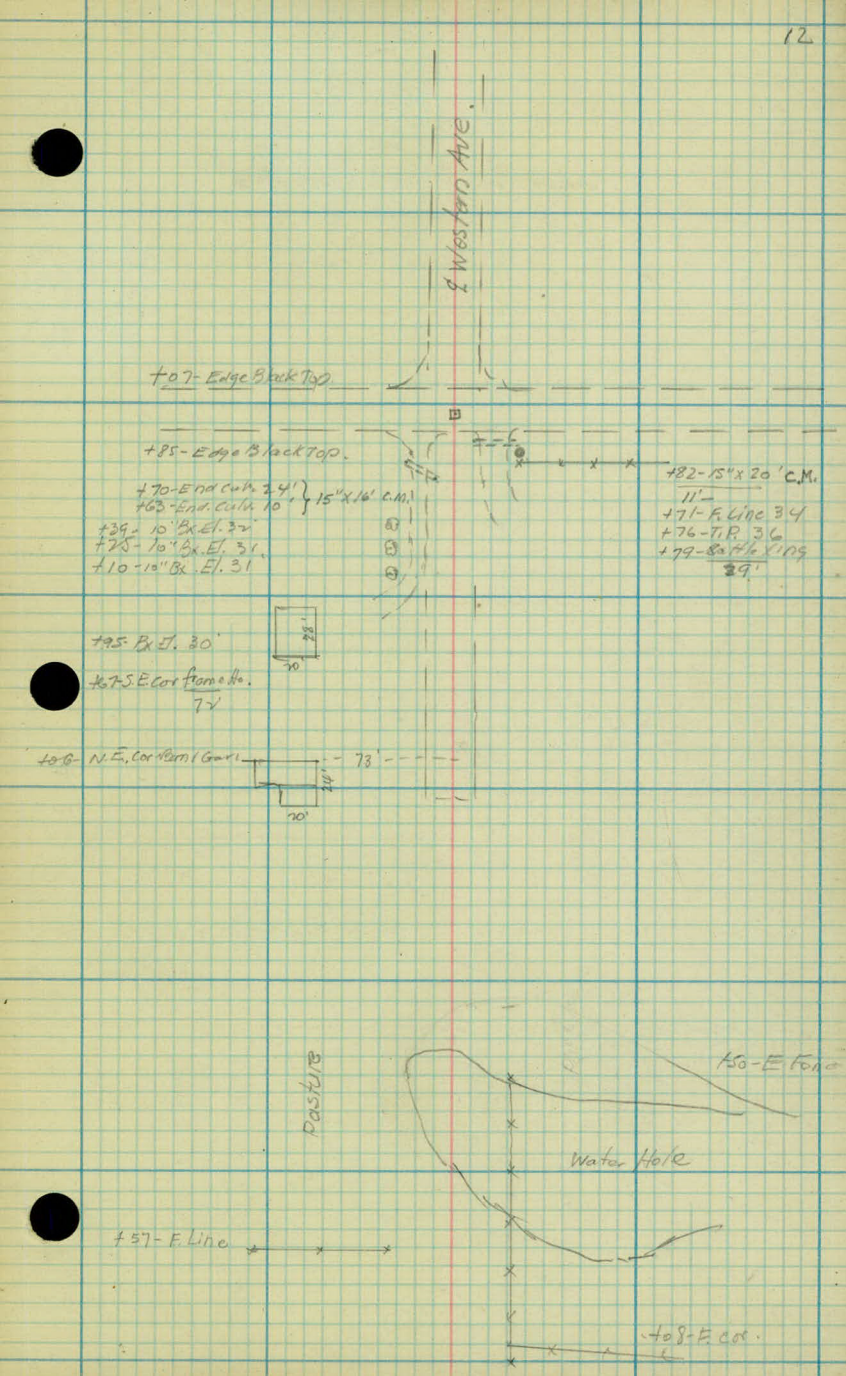
52

51

50

49

48


2 Western Ave.
+07- Edge Black Top.
+85- Edge Black Top.
+70- End Culv. 24'
+63- End. Culv. 10'
15" X 16' C.M.
+39- 10" Bx. El. 32'
+25- 10" Bx. El. 31'
+10- 10" Bx. El. 31'
+82- 15" x 20' C.M.
11'
+71- F. Line 34'
+76- T.P. 36'
+79- Bottom Kings
29'
+95- Bx. El. 30'
28'
30'
+67- S. E. Cor. Frame No. 7
+68- N. E. Cor. Barn & Garage
73'
24'
30'
Pasture
+50- E. Fence
Water Hole
+57- F. Line
+08- E. Cor.

Levels & Cross Sections

Drainage Recommendations.

Sta.	+	H	−	Elev.
B.M.	4.38	993.31		988.93
T.P.	6.45	999.16	0.60	992.71
T.P.	1.03	989.68	10.51	988.65
B.M.	8.40	989.68	8.40	981.28
T.P.	0.54	976.70	13.52	976.16
T.P.	2.61	965.90	13.41	963.29
T.P.	0.49	957.46	8.93	956.97
B.M.	7.40	951.80	13.06	944.40
0+0 Mon. & Co. Rd. "B"			9.02	942.78
0+17				43.30
0+24				43.4
0+45				44.8
1+0				47.6
T.P.	11.15	962.41	0.54	951.26
1+50				48.6
2+0				50.5'
2+50				53.0

Lt. ℄ Rt. W.H.C. A.D.C. D.S. J.B. L.D.G. May 1936

Spike in 8" Oak 52' Rt. Sta. 23+34

Spike in Top 30" Cott. Stp. 75' Lt. Sta. 13+35

Top Stake Sta. 3

R.R. Spike in R.P. #320 - 44' Rt. Sta. 0+28

15.0 / 200	11.5 / 100	10.3 / 50	9.00 / 0	9.5 / 50	10.2 / 100		12.5 / 200	
10.4 / 50	9.8 / 75		8.5	8.4 / 11	8.9 / 27	8.5 / 34	9.1 / 50	
10.7 / 50		9.2 / 10	8.4	8.0 / 11	8.5 / 24		9.7 / 50	
3.6 / 50	0.7 / 12	4.9 / 6	7.0	6.7 / 11	7.3 / 17	6.2 / 22	4.8 / 33	4.1 / 50
2.0 / 33	1.1 / 14	4.0 / 5	4.2	℄ 4.2 / 8	4.6 / 16	2.2 / 33		
12.3 / 33		12.6 / 14	13.8	℄ 13.6 / 9	12.7 / 17	12.4 / 33		
9.8 / 33	10.5 / 11	11.5 / 7	11.9	℄	12.0 / 16	11.3 / 25	10.1 / 33	
7.1 / 33	8.0 / 13	9.1 / 8	9.4	℄ 9.6 / 14			7.7 / 33	

Sand Soil

Sta	+	H	−	Elev.
		962.41		
3+0				56.3
T.P.	9.15	970.58	0.98	961.43
+50				60.1
4+0				63.1
+50				63.8
5+0	(? T.H. Location)			63.7
+50				62.7
6+0				60.8
+50				58.8
7+0				56.9
T.P.	6.02	963.55	13.05	957.53
+50				55.5
7+80	P. Culvert Drains Rt.			54.6
8+0				55.3

LH | RH

4.0 4.7 | 6.1 | 6.1 2.7
3 3 11 | 1 | 14 3 3

E

7.8 9.0 10.0 10.6 | 10.5 | 10.1 10.5 4.7
3 3 13 6 2 | 1 | 6 13 3 3

6.9 7.5 8.0 7.5 | 7.5 | 7.4 6.1 2.4
3 3 8 5 3 | 1 | 12 17 38

10.6 8.9 6.9 | 6.8 | 6.4 5.9 5.5
3 3 16 5 | 1 | 13 19 3 3

9.5 6.7 | 6.9 | 6.7 6.0 6.2
3 3 6 | 1 | 14 16 3 3

8.8 6.6 6.5 7.9 | 7.9 | 8.0 6.5 6.4
3 3 14 8 2 | 1 | 14 18 3 3

6.7 6.0 6.7 9.3 | 9.8 | 9.7 8.1 6.6
3 3 21 11 5 | 1 | 15 20 3 3

8.8 9.3 | 11.8 | 11.8 11.1 11.4
3 3 11 | 1 | 15 23 3 3

13.6 14.0 | 13.7 | 13.6 17.1 17.2
0 8 | 1 | 19 24 3 3

7.6 8.6 8.8 | 8.0 | 7.7 11.2 11.3
3 3 17 2 | 1 | 18 26 3 3

8.2 9.3 8.9 | 8.9 | 8.0 7.8 11.9 11.9
3 3 18 3 | 1 | 3 19 28 3 3

9.1 9.7 8.9 | 8.2 | 7.7 7.6 10.1 10.5
3 3 14 4 | 1 | 2 19 29 3 3

+26 - ENT. RT. ACTIV.

Sta.	+	H	−	Elev.
		963.55		
8+50				57.6
9+0				60.8
T.P.	11.83	974.92	0.46	963.09
+50				63.3
10+0				66.7
+50				71.1
T.P.	11.39	985.42	0.89	974.03
11+0				75.2
+40				78.0
12+0				77.7
+35	No Culv. Reqd			75.9
+70				79.3
13				83.8
B.M.			4.12	981.30

Lt. ℄ Rt.

6.1 / 33	5.5 / 6		5.9	5.6 / 4	5.6 / 24	6.9 / 28	5.3 / 33
1.4 / 38		1.9 / 5	2.7	2.7 / 6	2.4 / 22	2.0 / 27	3.0 / 30	2.0 / 32
12.3 / 33	11.6 / 11	12.0 / 7	11.6	11.0 / 3	10.8 / 29		11.0 / 33
8.7 / 33	8.1 / 17	7.7 / 4	8.2	7.8 / 3	7.3 / 15	7.3 / 31	6.3 / 33
4.0 / 33	3.3 / 15	3.2 / 4	3.8	4.3 / 6	3.5 / 16	3.5 / 31	1.9 / 34
	9.9 / 33	9.3 / 12	10.2	11.6 / 6	Rd. 10.8 / 18	11.0 / 31	9.6 / 33
	7.1 / 33	6.5 / 10	7.4	8.9 / 6	8.5 / 18	8.8 / 30	7.5 / 33	6.5 / 34
						℄	
	9.1 / 33	8.7 / 16	7.7	7.4 / 5	6.6 / 8	6.0 / 29	6.1 / 30	7.1 / 33
	11.0 / 33	10.6 / 19	9.5	8.9 / 4	5.4 / 9	4.7 / 18	5.0 / 29	7.1 / 33	8.0 / 40
	8.6 / 33	7.4 / 15	6.1	5.2 / 4	3.4 / 8	2.9 / 19	3.0 / 28	3.0 / 33
					℄		
	4.6 / 33	2.4 / 8	1.6		0.8 / 17		5.9 / 38

Spike Top 30" Co H. 75' Lt. Sta. 13+35

Sta.	+	π	−	Elev.
B.M.	12.81	994.11		981.30
13+15				85.0
13+25	℄ Minn.			85.7
+35				85.5
+42				86.1
+50				86.6
+65				86.6
14				87.7
+50				89.4
15				91.0
T.P.	10.74	1002.61	2.24	991.87
+35				91.8
+70				92.6
16				93.4
+40				95.0

Sandy Grave

Lt. ℄ Rt.

Spike Top 30" co H Stp. 75' Lt. Sta. 13+35

	10.8 / 50	9.8 / 73	9.1	7.9 / 78	7.6 / 50	Sh/dr
12.7 / 100	10.4 / 50	9.3 / 75	8.4 / 0	7.3 / 27	6.7 / 50	℄ Minn. Av.
	11.1 / 50	9.6 / 73	8.6	7.8 / 73	7.3 / 47 7.0 / 50	Sh/dr.

(R. Culv. Drain Lt.)

	11.8 / 50	9.6 / 25	8.8 / 15	8.0	7.8 / 25	7.4 / 40 7.0 / 50
	7.0 / 50	7.5 / 24	8.5 / 17	7.5	8.1 / 14	8.8 / 22 5.6 / 30 5.6 / 50
9.2 / 33	8.7 / 28	7.2 / 20	8.3 / 19	8.3 / 17	7.4 / 15	7.5	7.9 / 15	8.0 / 18	8.7 / 21	3.5 / 29	+2.0 / 34
		9.5 / 33	8.6 / 28	7.3 / 25	6.5 / 20	6.4	6.6 / 14	7.9 / 18	7.7 / 22	+0.5 / 31	+0.6 / 33
10.3 / 33	10.0 / 29	6.8 / 21	6.8 / 18	5.2 / 14	4.7	4.4 / 19	4.5 / 24	1.8 / 28	1.7 / 33	
	6.0 / 30	4.4 / 23	5.4 / 21	5.2 / 16	3.3 / 12	3.1	3.0 / 15	3.3 / 24	0.5 / 28	0.3 / 33	
13.5 / 33	13.0 / 28	10.7 / 23	12.9 / 20	12.8 / 17	11.0 / 13	10.8	10.7 / 13	11.6 / 22	7.3 / 29	6.9 / 33	
12.6 / 33	12.6 / 30	11.4 / 25	11.2 / 22	12.0 / 21	11.9 / 18	10.3 / 13	10.0	10.1 / 14	11.0 / 24	10.0 / 28	9.6 / 33
	14.6 / 33	14.4 / 23	9.4 / 12	9.2		9.2	9.2 / 13	10.9 / 19	11.4 / 33		
		14.4 / 33	14.2 / 25	8.2 / 13	7.6	7.7 / 33	11.4 / 22	11.5 / 33		

(Lt. 9+07 - 9+15 Low Spot)

Culv. or Ditch Ctr. Back

Low Spot

Sta.	+	H	−	Elev.
		1002.61		
17				96.7
+50				97.6
18				98.0
+50				98.6
19				97.5
+40				96.6
+75				94.7
20				93.5
T.P.	1.17	994.20	9.58	993.03
+50				92.1
21				90.5
+50				89.2
22				88.2

Lt.			&	Rt.			
10.1/33	9.1/22	6.2/14	5.9	6.1/13	7.5/17	8.2/25	7.4/38
4.7/33		5.0/12	5.0	4.7/23	3.8/24	3.6/33	
1.8/33	1.8/28	4.5/22	4.6	4.8/24	2.2/25	2.3/33	
3.0/33	2.5/24	4.2/28	4.0	3.9/22	1.0/25	1.4/33	
6.4/33	5.2/24		5.1	5.2/13	4.7/15	4.7/26	4.0/29 4.2/33
8.0/33		6.6/15	6.0	6.0/18		7.4/33	
(1906 - Ent. Lt. R. Calv.)							
7.1/33		7.9/17	7.9	8.0/12	8.7/15	9.6/33	
9.8/33	10.6/15	9.1/11	9.1	9.1/13	9.9/15	11.4/33	
1.05/33	2.2/12	2.0/10	2.1	2.5/12	4.0/16	5.9/33	
0.2/33	1.0/27	1.0/24	3.7	4.0/16	4.8/20	5.4/33	
3.8/33	4.2/27	5.1/26	5.0	5.6/14	6.2/18	6.9/33	
8.3/33	8.6/18	6.2/13	6.0	6.2/12	9.8/19	10.1/33	

Sta.	+	∧	−	Elev.	
		994.20			
B.M.	5.27	994.20	5.27	988.93	88.79
22+70	{ Pot Hole U.+R.T. No Outlet }			87.9	
23+0				88.4	
+50				90.1	
24+0				91.7	
T.P.	9.09	1000.80	-2.49	991.71	
+50				93.2	
25+0				94.3	
+50				95.7	
26				95.8	
B.M.	5.56	1001.65	4.71	996.09 = (996.12)	
+22				95.8	
+30				92.6	
+44.8	℄ Co. B²			91.4	
+60				96.0	
+65				94.7	

LH. ℄ RH.

Spike in 8" oak Sta. 23+34 - 52' RH.

12.6 / 33	12.5 / 22	6.3 / 10	6.3	6.6 / 12	13.7 / 22	13.4 / 33
12.2 / 33	12.3 / 23	5.9 / 11	5.8	6.0 / 10	12.5 / 24	12.6 / 33
9.0 / 33	8.4 / 19	4.1 / 12	4.1	4.1 / 13	6.3 / 19	5.7 / 21	5.1 / 33
4.0 / 33	3.4 / 15	2.7 / 12	2.5	2.5 / 13	4.4 / 17	4.4 / 20	+0.5 / 28	+0.8 / 33

Top Large Rock

9.4 / 33	8.1 / 10	7.6	7.6 / 13	9.6 / 17	9.6 / 20	2.6 / 30	2.3 / 33
8.8 / 33	6.7 / 10	6.5	6.2	+0.7 / 30	+1.0 / 33		
7.8 / 33	7.9 / 19	5.4 / 12	5.1	5.0 / 21	+3.4 / 30	+3.8 / 33	
93.2					100.6		
7.6 / 33	7.9 / 19	5.4 / 13	5.0	4.2 / 23	1.3 / 28	0.7 / 33	
top Stone 93.6 Mon.					95.1		
8.1 / 50	7.4 / 18	5.9 / 12	5.8	5.3 / 22	6.7 / 27	6.6 / 33	6.2 / 50
95.1						96.4	
6.6 / 50		6.1 / 22	5.6		5.2 / 25		5.3 / 50 Shldr.
95.8						96.6	
Drops Fast. 6.4 / 76	5.9 / 50	5.6 / 25	5.2		5.1 / 25	5.1 / 50	5.4 / 100 Drops Fast
95.1		Vo Culv Road				96.1	
6.6 / 50		6.3 / 25	5.6		5.3 / 25		5.6 / 50
93.4						94.8	
8.3 / 50		7.6 / 25	6.9		6.6 / 19		6.9 / 50

Sta.	+	ℸ	−	Elev.
		1001.65		
26+80				98.9
+92				99.5
27				99.6
+20				93.9
+50				92.0
+70				90.7
T.P.	0.51	988.55	13.61	988.04
28				87.0
+60				80.8
T.P.	0.14	976.47	12.22	976.33
29				74.4
+35				70.9
+65				70.6
30				71.3

Sandy soil!

LH. RT. May 28, 1935

W. H.
A. O. C.
D. S.
J. B.
L. D. G.

100.9							98.2		
0.8		2.0	2.7		3.8		3.5		
33		16			12		33		
101.3							99.1		
0.4		1.4	2.1		2.5		2.6		
33		15			14		33		
101.5							99.7		
0.2	0.5	6.6	6.6	2.0			2.0		
33	26	21	5				33		
100.8							99.7		
0.9	1.0	7.8		7.7	7.7	2.0	2.0		
33	24	21			21	25	33		
97.1								96.2	
4.6	4.8	9.4		9.6	9.6	5.7	5.5		
33	24	21			21	25	33		
93.7								90.6	
8.0	8.8	11.0		10.9			11.1	11.1	
~~33~~	24	23					13	33	
87.8								81.3	
0.8	1.9	1.0		1.5	1.6	6.0	7.3		
33	14	12			12	19	33		
75.9								73.6	
12.7	13.4	8.1		7.7	8.6	14.0	15.0		
33	22	12			14	22	33		
73.6								72.5	
2.9		2.2		2.1	2.5		4.0		
33		16			15		33		
71.4								71.5	
5.1		5.5		5.6	5.3		5.0		
33		17			18		33		
73.0								69.8	
3.5		4.8		5.9	6.7		6.7		
33		5			17		33		
70.5								69.9	
6.0		5.6		5.2	6.0		6.6		
33		16			16		33		

(Special Ditch LH. Sch. 29-31
RH. 29-31
Approx
"
")

Sta.	+	H.I.	−	Elev.
		976.47		
30+50				69.1
31+0				65.9
T.P.	2.35	965.50	13.32	963.15
+50				62.7
32				60.2
+60				60.3
33				58.5
+50				55.9
34				54.3
T.P.	0.33	952.99	12.84	952.66
+40				52.8
+75				47.5
35				46.4
+50				45.7

Lt. | ℄ | Rt.

66.8
9.7 / 33 | 8.8 / 15 | 7.8 / 8 | 7.8 / 0 | 7.1 / 16 | 6.7 / 33 | 69.8

65.0
11.5 / 33 | 11.2 / 16 | 10.6 / 10 | 10.6 / — | 10.0 / 18 | 9.8 / 33 | 66.7

61.6
3.9 / 33 | 3.5 / 18 | 2.6 / 11 | 2.8 / — | 2.5 / 16 | 2.8 / 33 | 62.7

59.7
5.8 / 33 | 5.5 / 19 | 4.9 / 11 | 5.3 / — | 5.8 / 15 | 6.3 / 33 | 59.2

60.7
4.8 / 33 | 4.8 / 15 | 4.1 / 8 | 5.2 / — | 5.7 / 13 | 6.3 / 33 | 59.2

59.6
5.9 / 33 | 5.9 / 7 | 7.0 / — | 8.0 / 17 | 8.0 / 33 | 57.5

56.6
8.9 / 33 | 9.0 / 8 | 9.6 / — | 9.9 / 15 | 9.7 / 33 | 55.8

55.0
10.5 / 33 | 10.9 / 17 | 11.7 / — | 12.2 / 15 | 12.3 / 33 | 53.2

52.2
0.8 / 33 | 0.6 / 11 | 0.2 / — | 1.3 / 11 | 1.4 / 20 | 2.4 / 33 | 50.6

48.5
4.5 / 33 | 5.0 / 18 | 4.8 / 6 | 5.5 / — | 6.0 / 12 | 6.8 / 33 | 46.2

4.43
8.5-W. Surface

48.2
4.8 / 33 | 6.0 / 20 | 5.4 / 10 | 6.6 / 7 | 6.6 / — | 7.0 / 13 | 9.0 / 17 | 8.7 / 33

48.4
4.6 / 33 | 5.9 / 16 | 6.5 / 12 | 7.8 / — | 7.7 / 10 | 9.3 / 13 | 10.0 / 33 | 43.0

Sta.	+	↗	−	Elev	
		952.99			
36				45.0	
+50				45.6	
B.M.	4.75	953.01	4.75	948.24	948.26
37				47.√	
+20				46.9	
+33				46.6	
+47				53.√	
+48				53.0	
+55				46.8	
+75				46.6	
38				47.0	
+40				46.1	
+75				44.4	

Lt. & Rt.

43.9
9.1 / 33 — 9.2 / 17 — 7.8 / 13 — 8.0

42.0
8.3 / 9 — 9.1 / 12 — 11.0 / 33

(P.I. & Cul. Drain into Pond Rt.)

43.8
9.2 / 33 — 8.7 / 28 — 7.6 / 20 — 7.4

48.1
6.3 / 24 — 5.0 / 25 — 4.9 / 33

Spike 10's oak 50' Rt. Sta. 36+50

46.3
6.2 / 33 — 5.9 / 29 — 6.6 / 23 — 5.8

52.8
5.7 / 23 — 0.3 / 24 — 0.2 / 33

47.6
5.4 / 33 — 5.1 / 26 — 6.0 / 24 — 6.1

52.3
5.6 / 22 — +1.0 / 25 — +0.7 / 33

47.8
5.2 / 33 — 5.3 / 18 — 6.4

53.0
6.0 / 10 — +0.8 / 18 — 0.0 / 33

47.7
5.3 / 33 — 2.1 / 10 — +0.2

52.5
+0.7 / 12 — 0.5 / 33

47.8
5.2 / 33 — 3.2 / 18 — 0.0

52.2
0.2 / 13 — 0.8 / 33

47.6
5.4 / 33 — 2.5 / 10 — 6.2

51.5
6.4 / 16 — 1.1 / 18 — 1.5 / 33

46.9
6.1 / 33 — 5.3 / 25 — 6.9 / 24 — 6.4

50.7
7.1 / 21 — 2.4 / 23 — 4.3 / 33

46.5
6.5 / 33 — 6.1 / 26 — 6.7 / 24 — 6.0

49.8
5.9 / 23 — 3.4 / 24 — 3.2 / 33

45.3
7.7 / 33 — 7.0 / 12 — 6.9

47.4
6.4 / 23 — 6.0 / 24 — 5.6 / 33

41.8
11.2 / 33 — 10.9 / 17 — 9.0 / 13 — 8.6

43.2
8.3 / 12 — 9.6 / 15 — 9.8 / 33

Sta.	+	π	−	Elev.
		953.01		
39				43.6
Top mon ℄			12.23	940.78
+40				43.1
+70				40.8
40				40.7
+50				41.4
41				47.3
T.P.	8.27	959.97	1.31	951.70
+30				53.1
+60				54.8
42				54.2
+40				53.6
+75				54.7
43				54.7

Low spot
No outlet

40.1						38.9
12.9	13.0	9.4	9.4	9.5	13.0	14.1
33	20	12		11	18	33
41.2						35.8
11.8	12.9	10.1	9.9	10.6	15.2	17.2 — No outlet
33	17	11		11	21	33
41.5						37.6
11.5	11.5		12.2	12.5		15.4
33	15			11		33
40.7						40.4
12.3	12.7		12.3	12.3		12.6
33	13			17		33
43.0						38.1
10.0	11.0		11.6	13.4		14.9
33	17			12		33
49.9						45.6
3.1	4.5		5.7	6.4		7.5
33	19			15		33
52.3						54.0
7.7	7.9		6.9	6.1		6.0
33	12			17		33
52.0						58.8
8.0	7.0		5.2	3.0		1.2
33	11			16		33
51.8						57.3
8.2	7.4		5.8	4.0		2.7
33	11			15		33
53.4						53.1
6.6	6.6		6.4	7.1		6.9
33	15			15		33
55.0						53.2
5.0	5.1		5.3	4.8		6.8
33	12			14		33
54.9						53.7
5.1	5.6		5.3	5.0		6.3
33	14			17		33

Sta.	+	℄	−	Elev.	
		959.97			
43+50				53.2	
44				53.8	
+50				53.6	
+75				54.5	
45				53.8	
+35				50.0	
T.P.	1.02	949.57	11.42	948.55	
+70				45.5	
46				43.3	
+40				45.4	
+75				46.2	
47				43.3	
+15				40.1	

Sandy Soil
Rock on Surface

LT ℄ RT.

54.0
6.0 6.8 6.8 7.7 8.4 8.3
33 12 3 14 33

51.7

53.4
6.6 7.0 6.2 6.9 7.0 7.8
33 6 4 16 33

52.2

53.6
6.4 6.5 6.4 8.6 9.6
33 9 9 33

50.4

53.4
6.6 6.1 5.5 7.2 7.5 10.0
33 18 9 14 33

50.0

52.5
7.5 7.1 6.9 6.2 7.7 7.9 10.5
33 18 6 7 15 33

49.5

48.7
11.3 11.1 10.0 11.0 12.3
33 11 14 33

47.7

Mail in Top Stp. 6' Rt. 45+50
6.4 43.2 5.6 4.7 4.1 4.4 3.2 0.8
33 17 3 3 13 33

48.8

Jta. 46 to P. Culv. & Drains LT.
8.9 40.7 8.1 6.9 6.3 6.8 5.6 3.9 2.3
33 16 3 2 7 20 33

47.3

41.1
8.5 6.6 5.6 4.2 3.8 2.5 1.7
33 17 6 4 15 33

47.9

42.2
7.4 4.8 3.9 3.4 2.9 2.1
33 6 4 7 3 3

47.5

40.3
9.3 8.5 7.6 6.3 6.4 6.0
33 18 6 17 33

43.6

38.4
11.0 11.0 9.7 9.5 9.6 8.9 9.1
33 24 10 24 25 33

40.5

Sta.	+	π	-	Elev.
		949.57		
47+50				37.6
+75				36.5
48				35.9
T.P.	1.27	937.52	13.32	936.25
+25				34.3
+63				31.0
T.P.	4.68	931.56	10.64	926.88
+75				24.8
49				24.8
+50				24.4
+80				25.0
50				24.4
+25				26.9
+65				25.4

Lt. | C. | Rt.

36.5
13.1 / 33 | 13.0 / 14 | 12.9 / 3 | 12.6 | 12.2 / 12 | 13.0 / 14 | 12.1 / 33 — 37.5

37.4
12.2 / 33 | 12.4 / 22 | 13.0 / 21 | 13.1 | 13.0 / 14 | 11.5 / 33 — 38.1

38.4
11.2 / 33 | 11.5 / 24 | 13.9 / 23 | 13.7 | 13.9 / 12 | 13.4 / 13 | 15.0 / 33 — 34.6

36.3
1.2 / 33 | 1.8 / .25 | 3.2 / 23 | 3.2 | 4.2 / 12 | 6.8 / 18 | 8.0 / 33 — 29.5

30.7
6.8 / 33 | 7.7 / 16 | 5.6 / 13 | 6.5 | 6.6 / 13 | 11.8 / 21 | 12.4 / 33 — 25.1

28.7
2.9 / 33 | 3.6 / 14 | 4.8 | 6.0 / 12 | 6.6 / 21 | 6.8 / 33 — 24.8

26.9
4.7 / 33 | 5.7 / 10 | 6.7 / 6 | 6.8 | 7.6 / 20 | 7.3 / 33 — 24.3

26.5
5.1 / 33 | 6.6 / 15 | 7.2 | 7.6 / 20 | 7.2 / 33 — 24.4

7.6 W. Surface

(R. E Cul. Sta. 49+50 - Dr. Rt.)

27.5
4.1 / 33 | 5.6 / 7 | 6.6 | 6.5 / 13 | 6.5 / 33 — 25.1

27.8
3.8 / 33 | 4.1 / 13 | 5.0 | 5.7 / 16 | 6.3 / 20 | 6.4 / 33 — 25.2

27.6
4.6 / 33 | 4.3 / 27 | 4.4 / 8 | 4.7 | 4.9 / 14 | 5.6 / 21 | 4.8 / 33 — 26.8

25.8
5.8 / 33 | 6.6 / 16 | 6.2 | 5.7 / 10 | 6.1 / 17 | 4.4 / 33 — 27.2

Sta.	+	H.I.	−	Elev.	
		931.56			
51				25.7	
+25				26.2	
+55				25.1	
+75				23.9	
52				23.4	
+45				21.3	
+65				21.8	
+78				22.8	
+84				23.2	
+95.4					
B.M.			7.87	923.69	
53 & Extended			7.9		23.7
+50			8.7		22.9
54			9.4		22.2
B.M.	3.95	927.64		923.69	
B.M.			8.18	919.46	919.50

H. ℄ Rt.

25.0 — 27.3

6.6 6.2 5.9 5.9 5.4 5.3 4.4 4.3
33 15 13 6 24 25 33

P-Ent @ Sta 51 Lt. R. culv.

24.5 — 28.7

7.1 7.0 6.3 5.4 5.4 4.9 3.2 2.9
33 23 14 12 23 26 33

25.1 — 30.6

6.5 8.0 7.0 6.5 6.0 5.6 2.1 1.0
33 15 12 10 23 25 33

26.7 — 29.3

4.9 6.3 6.6 7.7 8.1 7.1 7.0 4.6 2.3
33 28 19 10 18 25 26 53

28.4 — 26.8

3.2 4.2 6.7 7.0 8.1 8.2 9.1 8.6 9.4 8.6 4.8
33 27 24 9 5 4 12 14 20 33

26.8 — 24.5

4.8 6.6 8.0 8.8 10.1 10.3 9.4 8.7 7.1
33 26 24 11 8 10 24 33

28.1 — 23.4

8.5 9.1 9.1 9.8 9.8 9.9 8.9 8.8 8.2
33 30 10 6 4 6 20 33

Ditch = 20.6 — 23.4

11.0 9.5 8.9 8.8 8.6 8.2 - Ditch
40 28 13 10 33

20.6 (P. & Culv. Sta. 5+78) — 25.5

11.0 8.8 8.4 8.0 6.1 Sh Hr.
50. 17 12 50

21.6 — 25.8

10.0 5.8 44 5.5.
50 50 78

(Remove 15"x20'. and 15"x16')

Top stone Mon.

Spike in 14" oak 60' Lt. 53+15 = (0+20 West. N.)

Beach Levels.

	+	H	−	Elev.
B.M.	9.81	887.45		877.64
	12.70	899.55	0.60	886.85
	7.99	907.19	0.35	899.20
	12.04	918.83	0.40	906.79
	12.07	930.05	0.85	917.98
	12.93	942.48	0.50	929.55
	7.21	949.19	0.50	941.98
B.M.			4.75	944.44

Check Levels

B.M.	10.53	888.17		877.64
	12.80	900.59	0.38	887.79
	8.34	908.31	0.62	899.97
	13.33	921.12	0.52	907.79
	12.65	933.21	0.56	920.56
	13.78	946.53	0.46	932.75
B.M.	~~1.43~~		2.13 / 4.67	944.40
	13.06	957.46		944.40
	8.93	965.90	.49	956.97
	13.41	976.70	2.61	963.29
	13.52	989.68	0.54	976.16
B.M.	8.40	989.68	8.40	981.28
	10.51	999.16	1.03	988.65
	0.60	993.31	6.45	992.71
B.M.	8.62	997.55	4.38	988.93
	4.21	1000.38	1.38	996.17
B.M.	4.26	1000.38	4.26	996.12

Spike in 20" Oak 35' N. Elmer & Western

Spike in P.P. #320 N.E. cor. Co. Rd. "B" & Western.

Spike in 20" Oak 35' No. Elmer & Western.

Spike in P.P #320 N.E. cor. Co. Rd. "B" & Western.

Spike in Top 30" Cott. Stp. 75' Lt. Sta. 13+35

Spike in 8" Oak 52' Rt. Sta. 23+34

Top Stone Mon. Co. Rd. - B 2

(Check Levels Contd.)

	+	H	−	Elev.
		1000.38		
	0.80	988.11	13.07	987.31
	0.42	974.86	13.67	974.44
	0.32	961.91	13.27	961.59
	0.92	953.61	9.22	952.69
B.M.	5.35	953.61	5.35	948.26
	4.10	956.32	1.39	952.22
	0.25	944.20	12.37	943.95
	0.28	931.60	12.88	931.32
B.M.			7.87	923.73
B.M.			12.10	919.50

Spike in 10" Oak 50' Rt. Sta. 36+50

Top Stone Mon. Co. Rd "C" & Western.
Spike in 14" Oak 60' Lt. Sta. 53+15