BK. 72 Dr. 16

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Plan ..... Survey

Lower Afton Rd.

Int. East Co. Line

From ..... To .....

Old U.S. #61 to S.T.H. #100

Road Acc't. No. 71

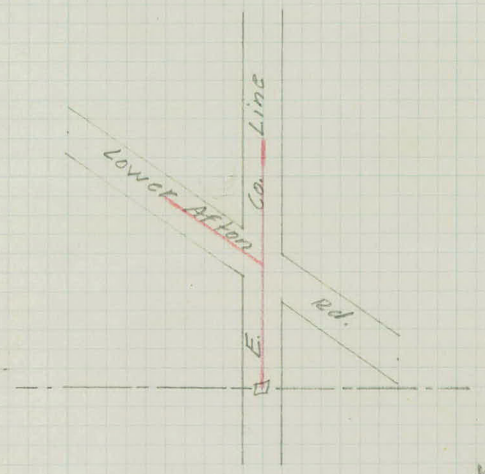
Date Filed 6-11-41 File .....

PLAN SURVEY

INTERSECTION

of

Lower Afton Rd. and E. Co. Line



Drawn up Hall 1/22/41

INDEX.

Align — 1-2

Topog. — 3-6

X Sections — 7-12

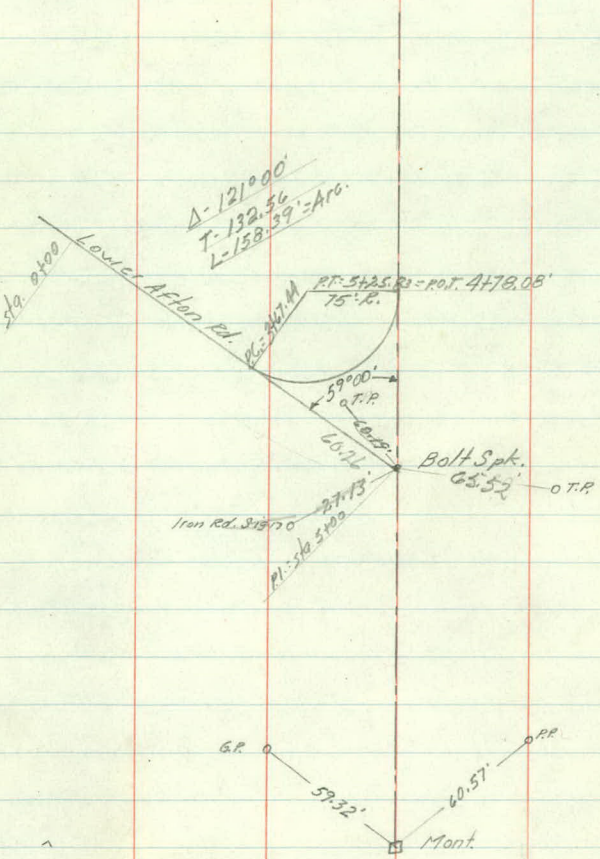
X Sections of Road — 13

Alignment

Sta	Point	Δ Lt	Δ Rt
3	+45.52	P.O.T. = Sta. 0+00 Lower Afton Rd.	
0	+00	= E. ¼ Cor. Sec. 12	

4-18-40
K.H.
L.C.
M.B.
C.N.

2



Topography
East County Line

11' 12'

6 11' 12'

+46-T.P.-26'

5 11' 12'

+16-End Rad.-11'
+28-T.P. Pole Brace-26'
4 T.P.-26' 11' 13'

+78-End Rad.-14'

+89-Trav. Rad.-30'
+41-Stop Sign-28'
+34-Rd. Sign-24'
+35-Rd.-20'
+14-Beg. Rad.-12'
+39-Gauge Tie to S. Switch
+35-Beg. Rad.-38'
+30-End 12" C.M.-49'
+13-End 12" C.M.-35' End Rad.-43'
3 12' 12'

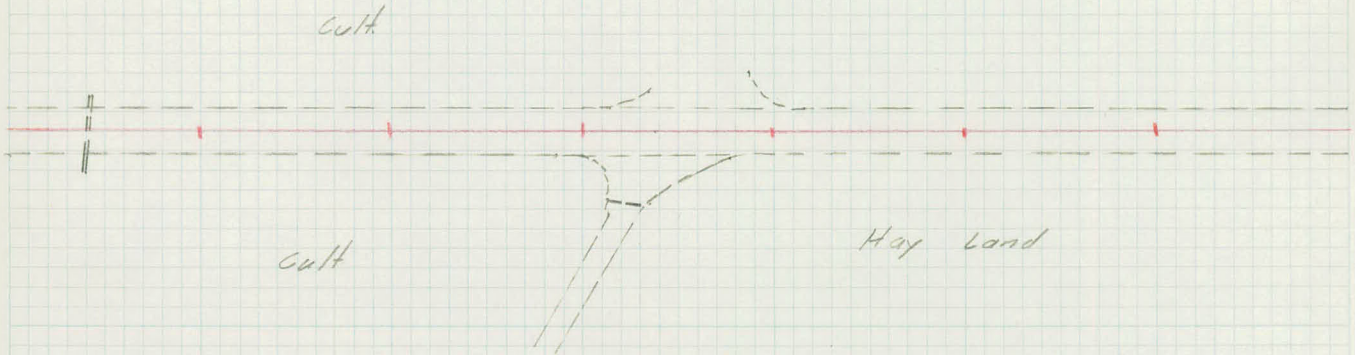
+86-Beg. Rad.-12'

2 11' 11'

1 11' 11'

+52-G.P.-17'
24"X39" C.M.
+42-End 24" C.M.-18'
+55-P.P.-28'
+49-End 24" C.M.-21'

0+00 12' 12'


Cult.
Cult
Hay Land

Topography
Lower Afton Rd.

5 13' 11' Chr. 15'X 24'6"M. 22'
+93-Range Tie to End.

4 12' 11'
+85-T.P.-36'

3 13' 13'

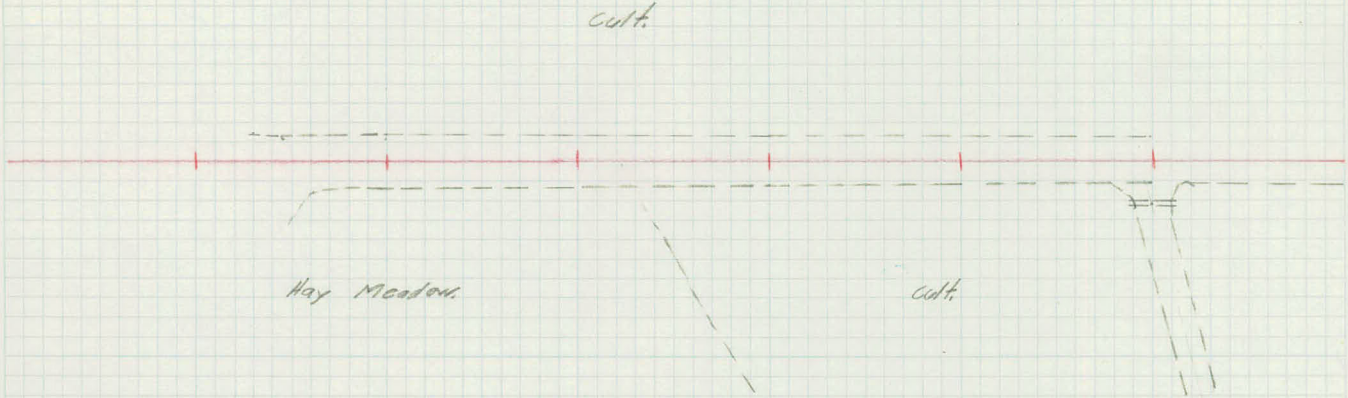
2 14' 13' +92-T.P.-33'

1 13' 13'

15'+62-

+95- 12'
+30- 13'
1

0+00


cult.
Hay Meadow
cult.

Xsections

E. Co. Line

Sta		+	=	−	Elev	
B.M.		8.62	1039.01			(1030.39)
0	+00				30.4	
	+50			8.7	30.3	
1				8.7	30.3	
	+50			8.4	30.6	
2					31.3	
	+50				32.6	
3					34.0	
	+13				34.5	
	+34				35.4	
	+95.5				35.8	
	+89				36.9	
T.P.		9.60	1046.73 ✓	1.88	1037.13 ✓	

Lt R Rt

110/50 104/30 102/21 86/13 81/9 77/— 77/11 79/18 86/20 84/26 86/50

98/50 91/30 92/20 73/17 66/10 64/— 64/11 67/17 75/20 72/27 79/50

79/50 74/33 73/20 62/17 54/10 50/— 51/10 52/19 60/23 60/43 53/50

71/50 67/33 69/21 54/17 48/10 45/— 45/11 45/27 34/50

59/50 56/38 57/27 47/21 38/9 36/— 36/10 35/29 38/46 48/50

50/50 53/45 53/37 41/32 33/9 32/— 32/10 39/32 44/34 45/43 28/47 L.O.

39/30 37/29 23/8 21/— 22/10 28/23 05/28 08/50

Sta	+	IT	−	Elev.	
		1046.73 ✓			
4				37.1	
	+17			37.5	
	+32			37.9	
5				39.9	
	+50			41.4	
6				42.7	
	+50			43.9	
7				44.9	
T.P.	1.25	1037.06	10.92	1035.81	
B.M.			6.65	1030.41 ✓	(1030.39)

Lt. ℄ Rt.

110/50 101/32 90/28 107/24 108/16 98/7 96 98/10 100/17 104/22 77/29 81/50

86/50 75/40 69/28 102/22 95/10 92 93/10 96/17 100/21 65/30 69/50

70/50 62/28 97/22 91/11 88 89/11 91/17 98/21 52/31 55/50

57/50 47/28 76/22 71/11 68 68/9 71/16 81/19 77/21 23/33 23/50

48/30 35/27 63/20 57/10 53 55/11 58/16 67/19 64/21 16/32 12/50

54/50 43/23 52/20 47/16 44/10 40 42/10 45/15 54/18 58/21 +05/32 +10/50

68/50 51/21 39/18 32/10 28 29/9 31/16 42/19 42/21 17/27 07/50

18

Top Mont. E. ¼ Cor. Sec. 12

XSections

Lower Afton Road.

Sta		+	↑	−	Elev	
B.M.		10.86	1041.25			1030.39 ✓
0	+00	5			35.8	
	+30	+7			36.0	
	+49	+5			35.8	
	+62	+3			35.6	
1		4+80			35.1	
	+50	+5			34.6	
2		3			33.9	
	+50	+5			33.6	
3		2			33.0	
	+50	+0		9.0	32.3	
4		1		9.6	31.7	

Rt

Lt.

Lt

Rt

Top Mont. E. ¼ Cor. Sec. 12

96/50	92/40	77/32	71/26	62/18	55						
92/50	77/27	77/17	65/14	59/8	53	50/20	45/33	40/50			
90/50	74/27	75/16	61/12	55	56/11	60/18	60/23	54/30	47/50		
87/50	72/24	76/16	62/14	57	59/9	62/14	52/28	21/44	14/50		
90/50	81/39	77/24	81/20	81/17	69/15	62	66/13	58/26	30/40	22/50	
91/50	84/37	80/25	87/20	87/18	76/16	69	74/17	62/27	26/47	27/50	
100/50	97/34	91/26	97/21	95/18	82/16	74	82/19	74/27	54/39	48/50	
117/50	113/35	106/25	106/19	86/15	77	84/16	94/18	95/23	84/37	75/50	
127/50	124/32	117/28	116/19	92/16	83	92/16	104/19	109/20	96/35	93/50	

Rt

Lt

Sta.	+	H	−	Elev.
		1041.25		
4	+50	+5V	10.5	30.8
	+88		13.20	28.05
5		0	11.5	29.8
B.M.			10.85	1030.40 (1030.39)

Flow Line East End 15'6.14.

Top Mont. E. 1/4 Cor. Sec. 12

Sta	+	H	−	Elev.	
B.M.-	13.23	1043.62			(1030.39)
3 +67.94				34.5	
4				34.9	
+25				35.4	
+50				38.9	
5 +75				37.2	
5 4+[illegible]				38.4	
+25.83 = 4+78.08 } Equa.				39.3	

1-29-41
K.H.
L.C.
M.B.
C.M.

Lt. R. Rt.

Top Mont E. 1/4 Cor Sec 12

50 / 50	52 / 47	85 / 27	92 / 20	96 / 14	93 / 11	91	98 / 12	102 / 16	109 / 19	102 / 25	113 / 50	
47 / 50	52 / 43	72 / 29	84 / 20	90 / 7	87 / 8	86						
42 / 50	44 / 40	56 / 26	72 / 14	78 / 7	82	87 / 13	81 / 30					
41 / 71	39 / 50	40 / 21	40 / 9	47	52 / 11	78 / 18	82 / 25	79 / 31	73 / 41	72 / 50		
37 / 50	32 / 33	28 / 16	64 / 7	64	62 / 21							
	34 / 50	23 / 26	60 / 17	52	51 / 4	38.5						
32 / 50	20 / 28	56 / 20	48 / 12	43	39.3							

~~C010~~

Topography

Lower Afton Rd.

McKnight Rd. to Century St.

12 Pages

Sta 61 — Lt — ℄ — 8' Ent Rt

5+00 — 5+00 — 27

12 10

+90 SE Cor Bar 105

+68 SW Bar 105 — +75 12' Ent 14

+68 Ent (Range Tie)

+12 SW Cor HO 75 — +56 SE Cor HO 75

60

4+00 — 14 9

+91 PP 28 — +91 PP 28

59

3+00 — 15 9

+51 PP 28

+86 NE Cor Ho 63

+42 3" Elm 36 — +47 7" BE 37 — +44 PP 22 — +46 HO (NW Cor) 63

+40 12" BE 42 — +37 24" X 37' CM

58

2+00 — 15 9

+99 2" Elm 31

+37 HO (SW Cor) 85

+52 NE Cor Ho 63 — +98 NW Cor Ho 63

+41 12' Ent 16

+19.5 4' White Fe 28 — +35 Fe Posts 63 — +44 Fe Posts 63, 73, 83, 93 & 103

+23

57

1+00 — +11 PP 28 — 16 8 — +03 12' Ent 8

+87 HO 63

+61 HO 63

+60 End Radius 9

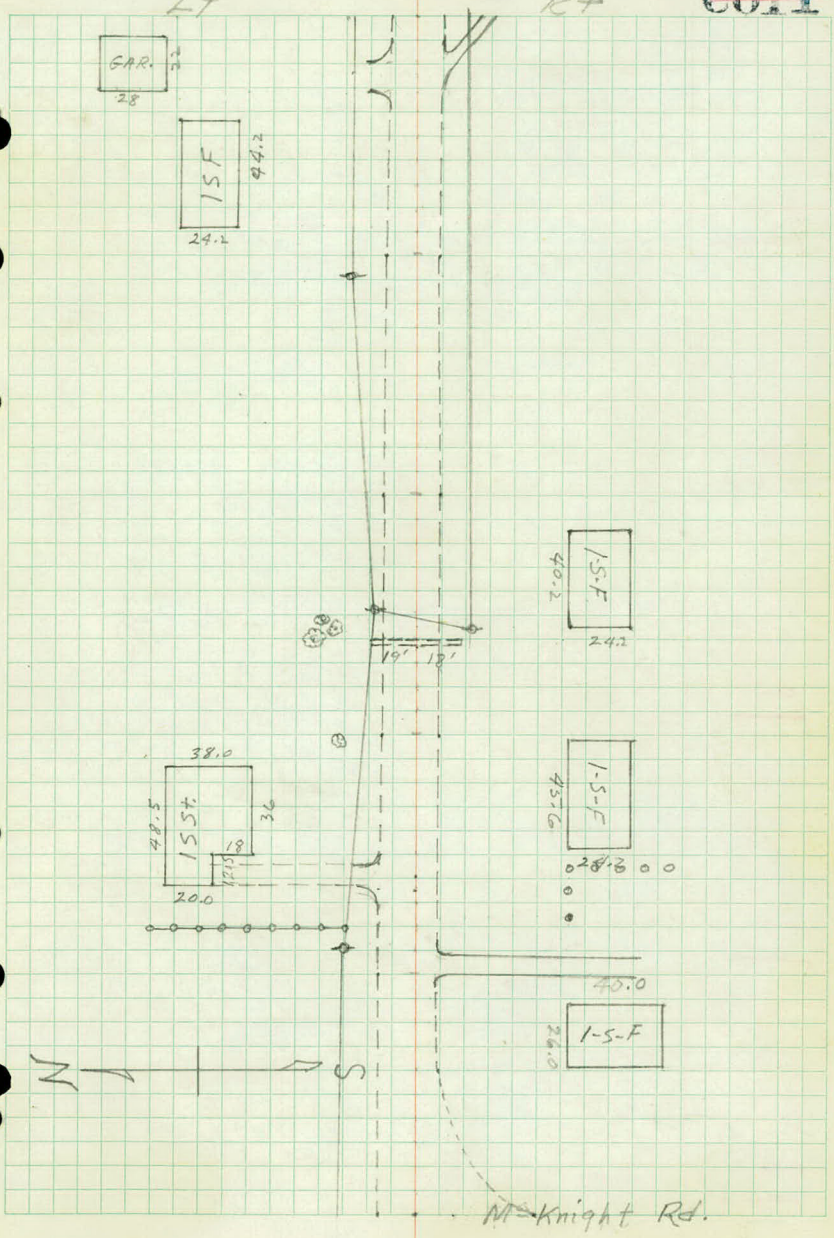
56

0+00 — 15 — +16 Radius 48

RG
JH

Sept 4, 1959
Cool, Clear

~~C01~~



Sta · Lt · ℄ · Rt

66

~~10+00~~ +00 Fe 42 · PP 27 · 12 11 +00 B.W. Fe 28

+91

+68 Stp. 38 · +86 Stp. 32

+58 Stp. 30

65

~~9+00~~ +00 BW Fe 39 · 12 9 +00 BW Fe 27

+08 Fe (BW) 26

B.W. Fence lying on ground loose, 27'

64

~~8+00~~ 11 10 +00 PP 23

+76 B.W. Fe Cor 27 (Rge tie at +80) +92 14" Stump 24

Ent (8') 12 (Rge tie at +69

+60 B.W. Fe Cor 25 (Rge tie at +66 +39 14" BE 44 · +43 24" OAK 35

+26 PP 28 11 · +11 12" BE 33 · +25 15" OAK 33

63

7+00 +01 14" Oak 32 · 12 10

+75 9" Elm 41 · +75 End lilacs 41

PP

+73 27.5

+38 24" BE 44 · +38 Begin lilacs 44

62

6+00 12 11 +05 16" Elm 41

+77 24" Elm 41

15" tree

+59 59

PP

+33 23 · +37 18" Elm 39

61

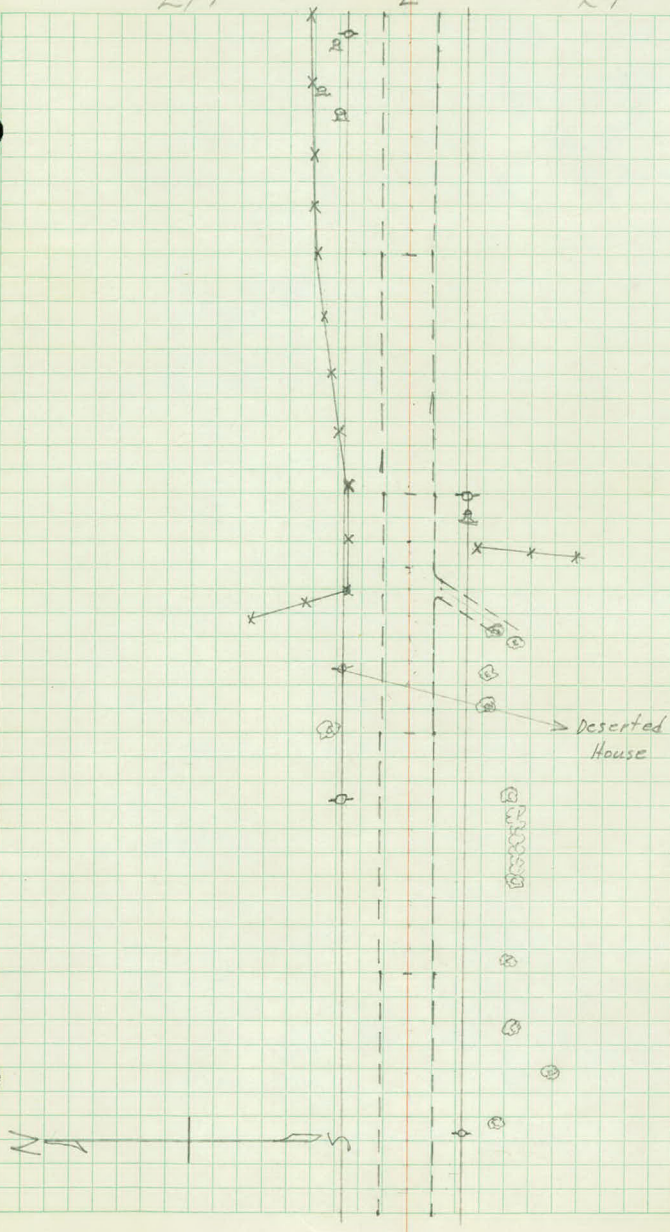
5+00 12 10

RG
JH

Sept 4, 1959

Lt. ℄ Rt

C012

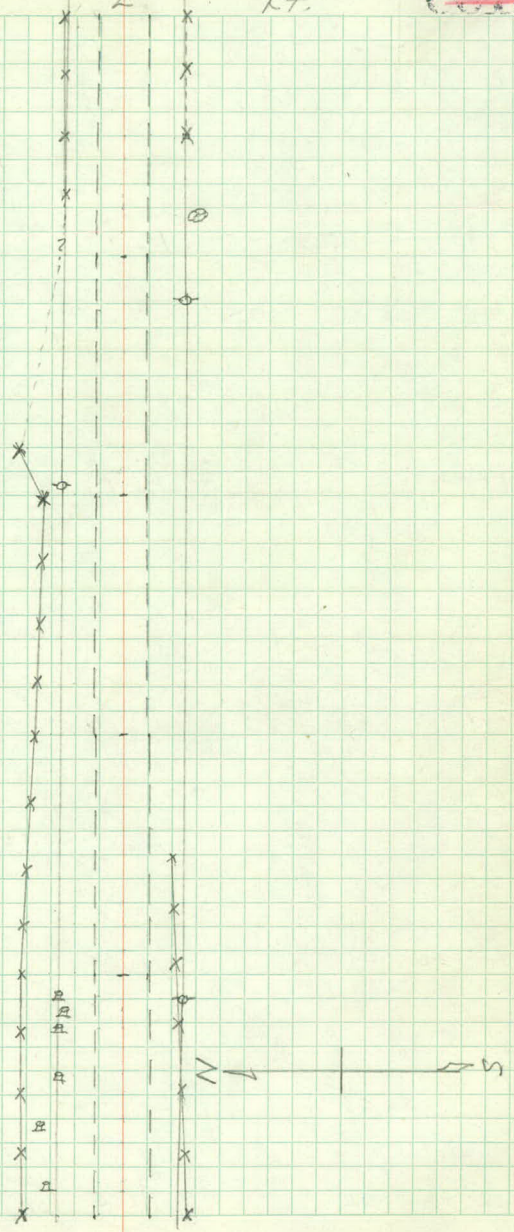


Sta.	Lt.	℄	Rt.
~~15+00~~ 71	+00 BW Fe 26	11 10	+00 Fe (BW) 25
			+50 Iron Fe Posts 24
	13 W Fe +26 24		
			+18 30" OAK 29
~~14+00~~ 70		12 9	
			+81 PP 25
	+18 Fe Cor 43.5		
	+06 PP 27		
~~13+00~~ 69	+00 Fe 34	12 9	
~~12+00~~ 68	+00 Fe 37	12 10	
			+49 Fe Cor. (end) 20
~~11+00~~ 67	+00 Fe 42	12 10	
	+86 Stp 25	+93 Stp 28	+90 PP 24
	+59 Stp 27	+79 Stp 28	
	+38 Stp 35		
	+14 Stp 32		
~~10+00~~ 66	+00 Fe 42	12 11	+00 BW Fe 28

RG
JH

Sept 4th, 1959

Lt. ℄ Rt.



Lt. ℄ Rt.

20+00

+80 End Small Tree clumps 22

12 11

+17 PP 28

+18 TP 27

19+00

13 11 +06 End Culv (15"x30' CM) 24

· 12' B.T. Ent

+92 22

· Begin Culv 15"x30' CM +76 25

· 14" Elm +81 54

· Begin small tree clumps

+00 27

18+00

12 9

+75 Fe Cor 35

+80 PP 26

+70 Fe Cor BW 31

· 24" oak +06 29

· 29" oak +55 31

17+00 +00 BW Fe 35

11 10 +00 BW Fe 30

· PP

+40 26

· TP

+25 27

· BE (Multiple 6") +18 51

· 3" Elm +25 45

· Twin 4" BE +07 36

16+00 +00 BW Fe 30

11 10 · 10" Elm +98 51

+00 BW Fe 28

· Stp

+68 30

15+00 +00 BW Fe 26

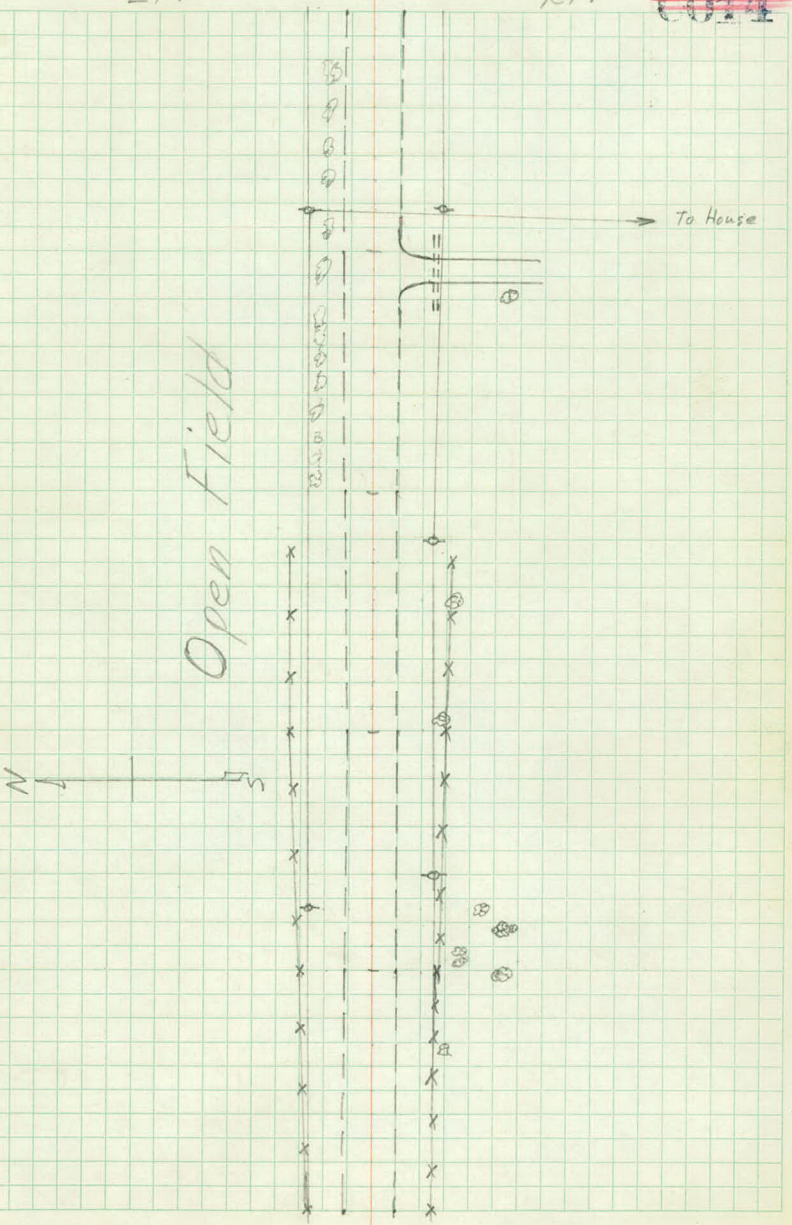
11 10 +00 BW Fe 25

RG
JH

Sept 4, 1959

Lt. ℄ Rt.

~~C014~~



Lt. ℄ Rt.

~~25+00~~ 12 11

InP 12" x 24" CM
+99 21

+34 PP 28

24+00 12 11

+02 PP 28

23+00 12 11

+21 PP 27

22+00 12 11

+75 PP 27

21+00 12 11

+46 PP 27

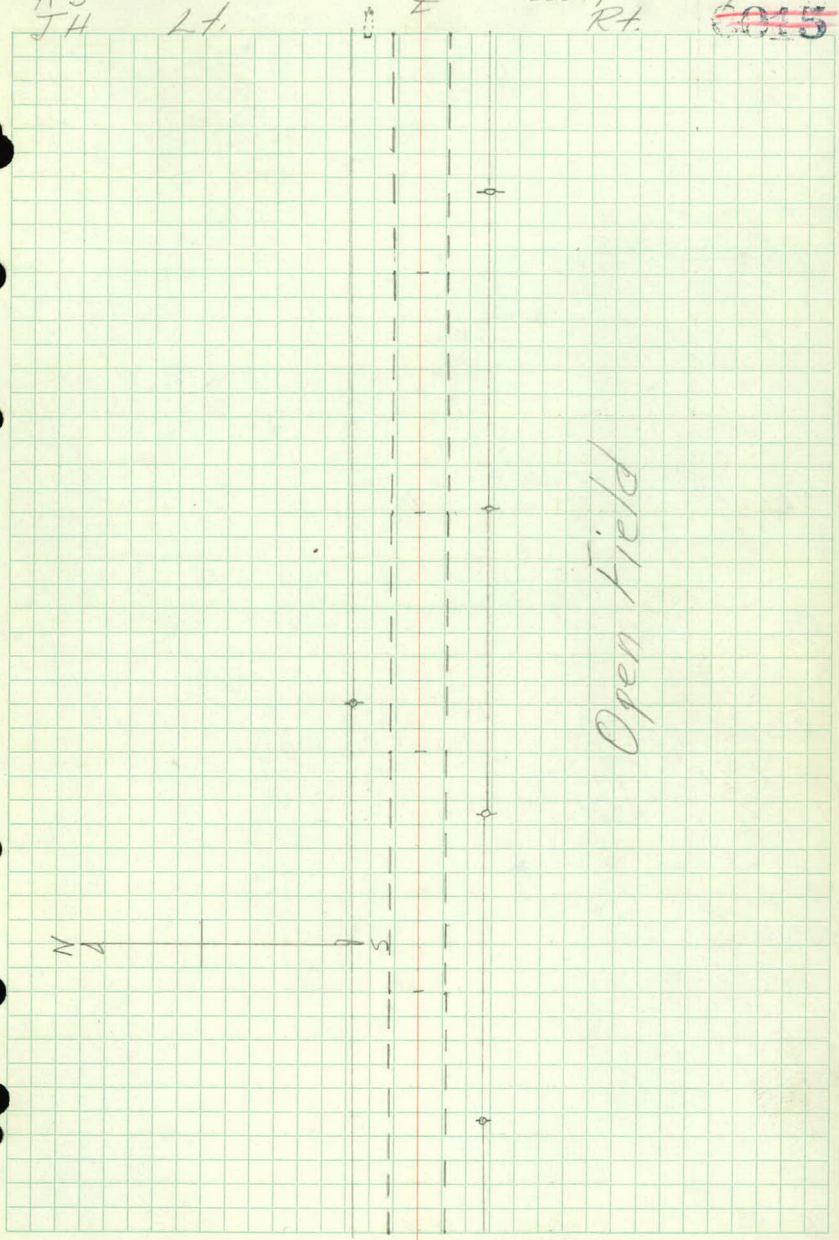
20+00 12 11

RG
KJ
JH

Sept 14, 1939
Cool, Breezy

Lt. ℄ Rt.

~~015~~



Lt. Fe Rt

30+00 +00 Fe 13 — 4 18 — +00 Fe 29

29+00 +00 Fe 17 — 7 16 — +00 Fe 28 — +92 PP 29

+32 PP 15

28+00 +00 Fe 20 — 9 14 — +00 Fe 27

27+00 +00 Fe 24 — 11 13 — +00 Fe 26

+53 G.L. Pipe Line — +36 Fe cor 26 — +53 G.L. Pipe Line — +96 PP 29

INP 12" x 25' cm 21 — +05 (24 x 24) SW Cor Bar. 154 — Fe cor — +36

+03 14" Cott. 98 — +05 SE Cor Ho 116 — INP 15" x 20' cm 22 — +11

+14 Ent. (10') — +05 14" Elm 34 — 11 12

26+00 +99 — +80 14" Tree 34 — +90 14" Elm 98

SW Cor Ho (53 x 24) 116

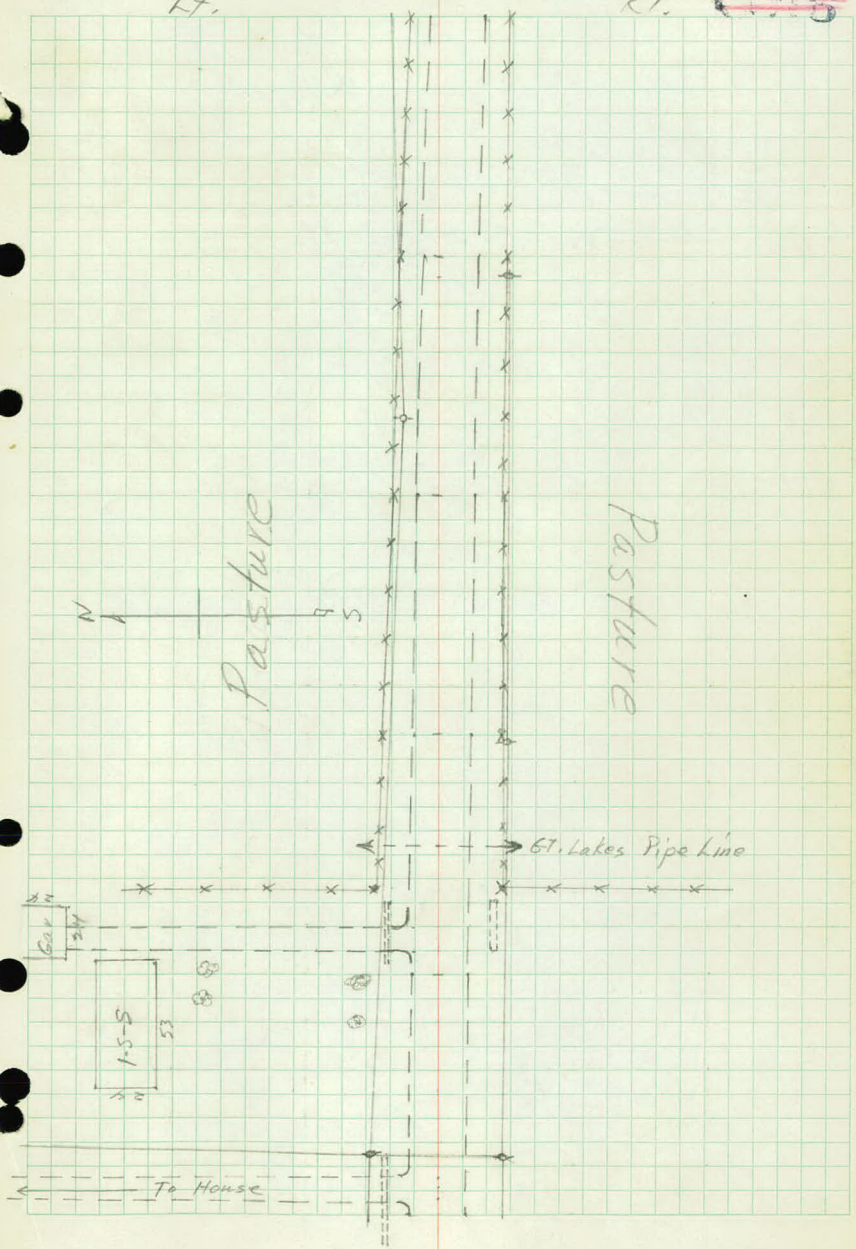
+52 PP 28 — +24 E. End 12" x 24' cm 21 — +23 — +12 10' Ent — +23 PP 29

25+00 — 12 11

RG
KJ
JH

Sept 14, 1959

Lt. ℄ Rt.



℄

35+00 Lt. +00 Fe 143 10 13 +00 Fe 36 Rt.

+50 +00 6 Trees 36-57

+50 Fe 132 (+50 10 13) +50 Fe 31 +50 16" oak 45

+43 PP 130 +8-12 3-16" oak 27-30

34+00 +00 Fe 121 10 12 +00 Fe 25 7 Trees 25-38 (33+50 to 34+00)

R.T. +36 No End So. End Vitrified!

+32 ℄ 15"x42" CM. (Inp) 21 +41 So. End Culv. 21 Rt. +36

+50 Fc 110 Twin 24" BE 94 +32 BE Group 6" 41 +48 Begin Fc at 24" BE 26

+28 Twin 10" BE 91 5" Plum 90 +20' +32 (+50 10 12) 14" BE 85 +28 +38 Retaining Rip Rap Wall 21-33

+26 (14' Ent) 12"x23' V.T. (Inp)

33+00 +00 Fe 96 10 12 +28 26

+50 Fe 79 +50 11 13 +84 NW Cor Gar 66 (24'E-W 22'N-S R.T. +64

32+00 +00 Fe 53 8 15 +17 Twin 16" Sp 35

+92 18" Elm 36

+50 Fe 32 +50 5 20 +56 Triple Elm 6"-9"-12" 36

+13 PP 25

31+00 +00 Fe 20 2 20

INP 15"x24' CM +61-85 29 +64 30" BE 41

+50 Fe 14 (3 20 +50) +50 Fe 32 +59 End of Fe 32

+87 24" BE 42 +74 10' Ent

+42 PP 32

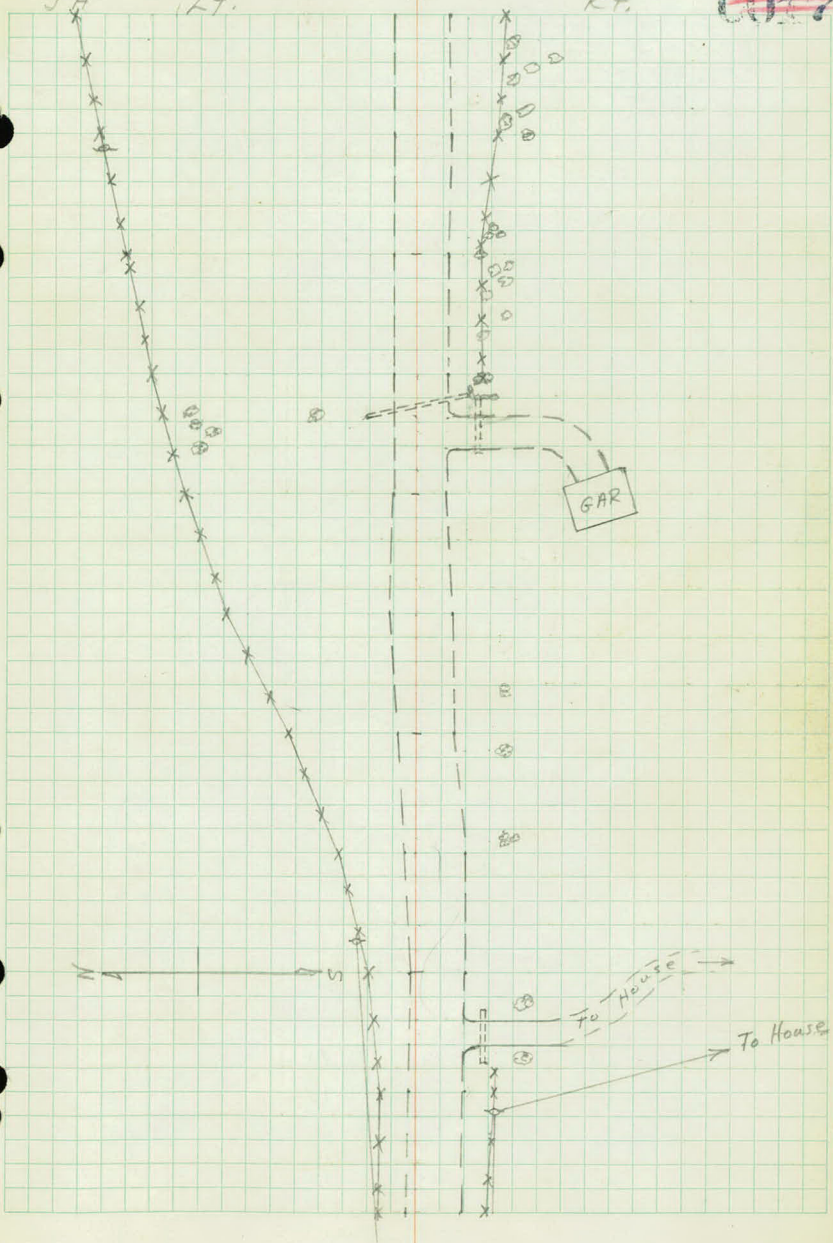
30+00 +00 Fe 13 4 18 +00 Fe 29

RG
KJ
JH

Sept 14, 1959

Lt. ℄ Rt.

~~CO-7~~



40+00

Lt. +00 Fe 31 — ℄ 7 13 — Rt. +77 Fe cor 24

+50 Fe 25 — (+50 9 15) — +50 Fe 27

39+00

+00 Fe 23 — 8 14 — +00 Fe 29

38+00

+00 Fe 24 — 10 12 — +00 Fe 28

+73 Fe cor 26-169

39+00

10 13 +00 Fe 27

+50 to +66 5 Trees 28-45

(+50 10 12) +50 Fe 28

+00 to +50 9 Trees 28-48

36+00

+00 Fe 161 — 10 12 +00 Fe 30 — 9 Trees 50

+50 to +00

(+50 10 12) +50 Fe 32

+00 to +50 9 Trees 32-54

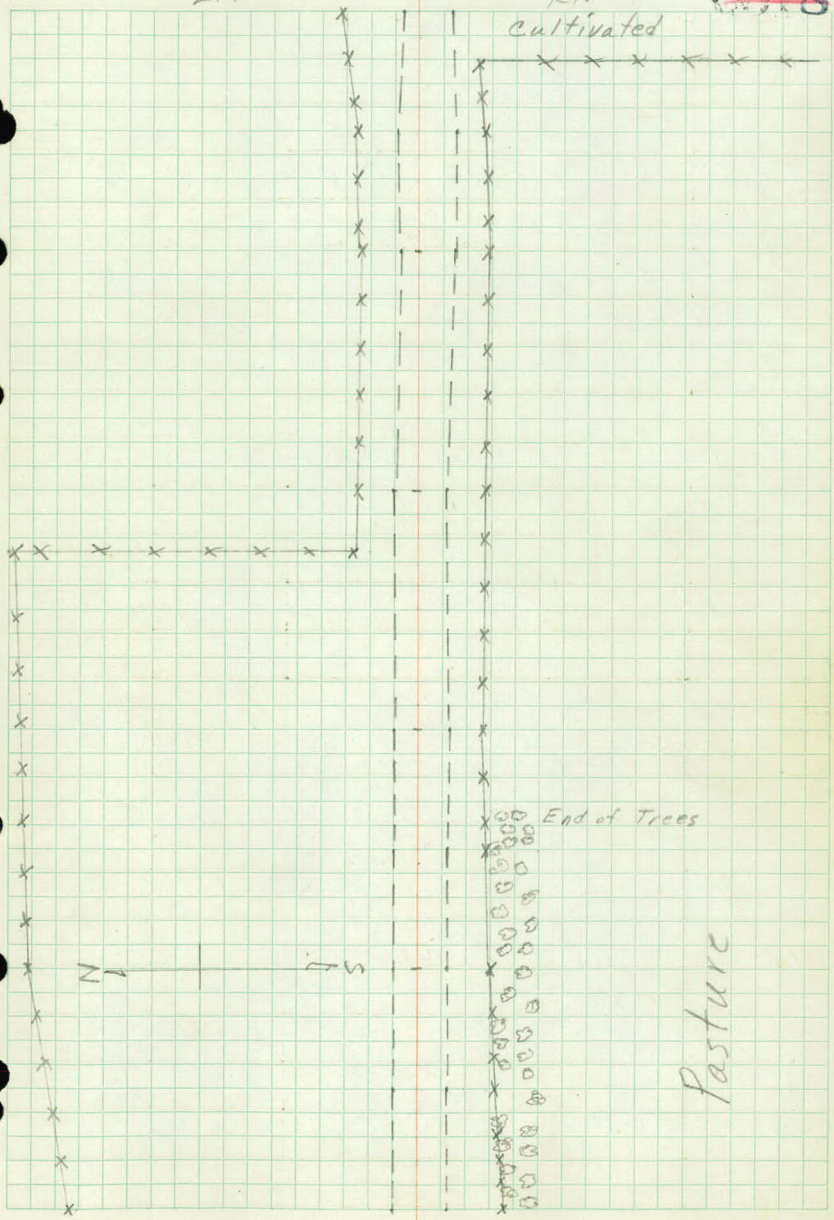
35+00

+00 Fe 143 — 10 13 +00 Fe 36

RG
KJ
IH

Sept 14, 1959
Warm

Lt. ℄ Rt.



	Lt.	℄	Rt.
45+00		13 9	
44+00		14 8	
		PP +61 34	
43+00		14 8	
42+00		13 9	
	+32 10' Ent	+39 PP 38	+63 PP 24
	+03 End of Fc 58	+03 26" OAK (+50 14 9)	
41+00		14 10	
		+80 10" Oak 41	
		+50 Fc 42	(+50 13 11)
40+00		too Fc 31	7 13

RG
KJ
JH

Sept. 14, 1959

Lt. ℄ Rt.

C049

50+00 +85 Fe' Line RT = 50+10 RT

+94 10' ENT

+68 Stp 29

+34 18"M 29 +42 18"M 29

+10 16" Maple 28 +26 18"M 29

49+00 +78 7" Cott 28 +85 24" Elm 54

+56 30" OAK 28

+27 14" BE 27

+17 PP 36

+25 12" Maple 23

48+00 +11 24" Maple 27

11 +00 18" Maple 23

Fe. Cor

+92 42

+98 10' Ent.

47+00 +00 Fe 28

R.T. for fence

+03 25

46+00 +00 Fe 25

+92 Fe Cor 25 +88 PP 35

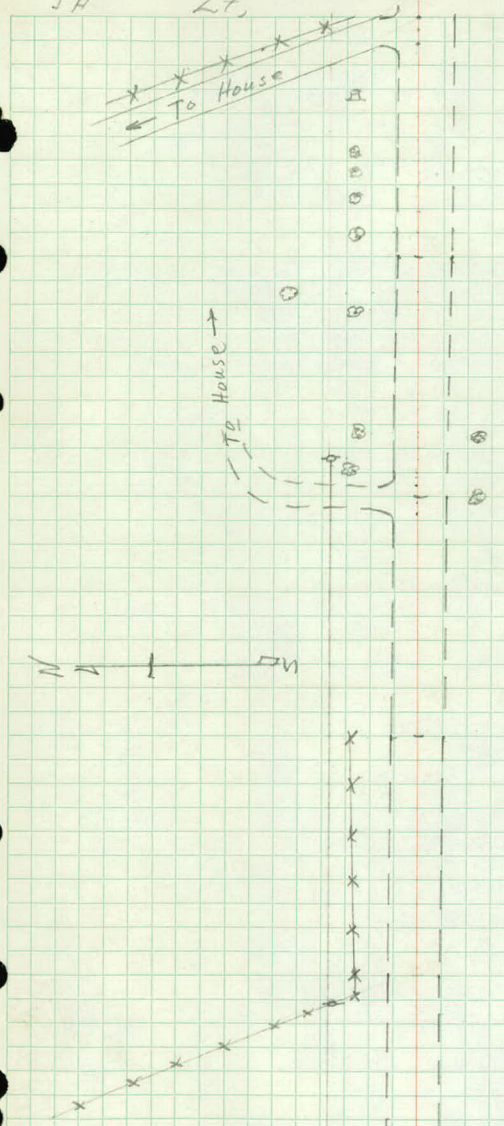
45+00

RG
KJ
JH

Sept. 14, 1959

Lt. ℄ Rt

C0S0



Lt. (+06 RT) ℄ Rt.

55+00 End Radius (R.T) (+85 B. Rad 33)

+77 On Hwy 105 53 — End Rad. on Hwy 105 R.T. +77

+45 PP 28 — End Radius +56 46 — End Radius +89 26

RT +52.5

B. Rad +20 10 — Fe Cor +37 38 — B. Rad +43 13

54+00 +00 Fe 30 10 14

53+00 +00 Fe 31 11 13

End Trees +25 115

52+00 +00 Fe 32 11 11

End Orchard ℄ +85 150

51+00 +00 Fe 32.5 10 11

Orchard +37 100 - +

Trees Grove +10 88-95

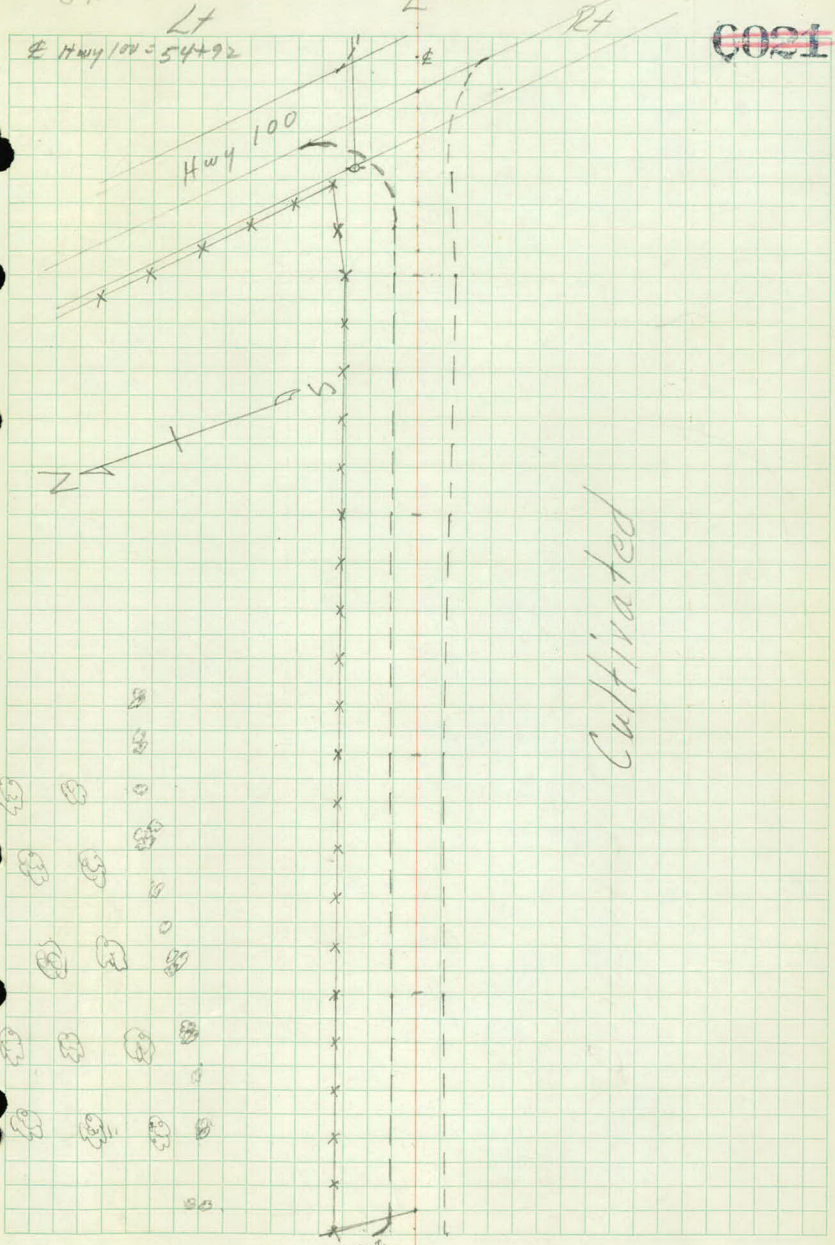
50+00 +02 Fe Cor 33 13

RT +10

RG
JH

Sept. 15, 1959
47°, Windy

6021



Lt. ℄ Rt.

56+00

11/12

+54 PP/19

+42 12"x24' am lap/14

+34 E. Rad/11

+39 E. Rad/12

55+00 +06 RT

+26 B. Rad/40 RT +06

+85 Beg Rad/33

RG
JH

Sept 15, 1959
47° Windy

Lt. ℄ Rt.

C023