Book 81 Dr. 16

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

PLAN Survey

COUNTY ROAD "F"

From Hamline To Victoria

Road Acc't. No. 29

Date Filed 1-30-43 File

586E

PLAN SURVEY

CO. RD. "F"

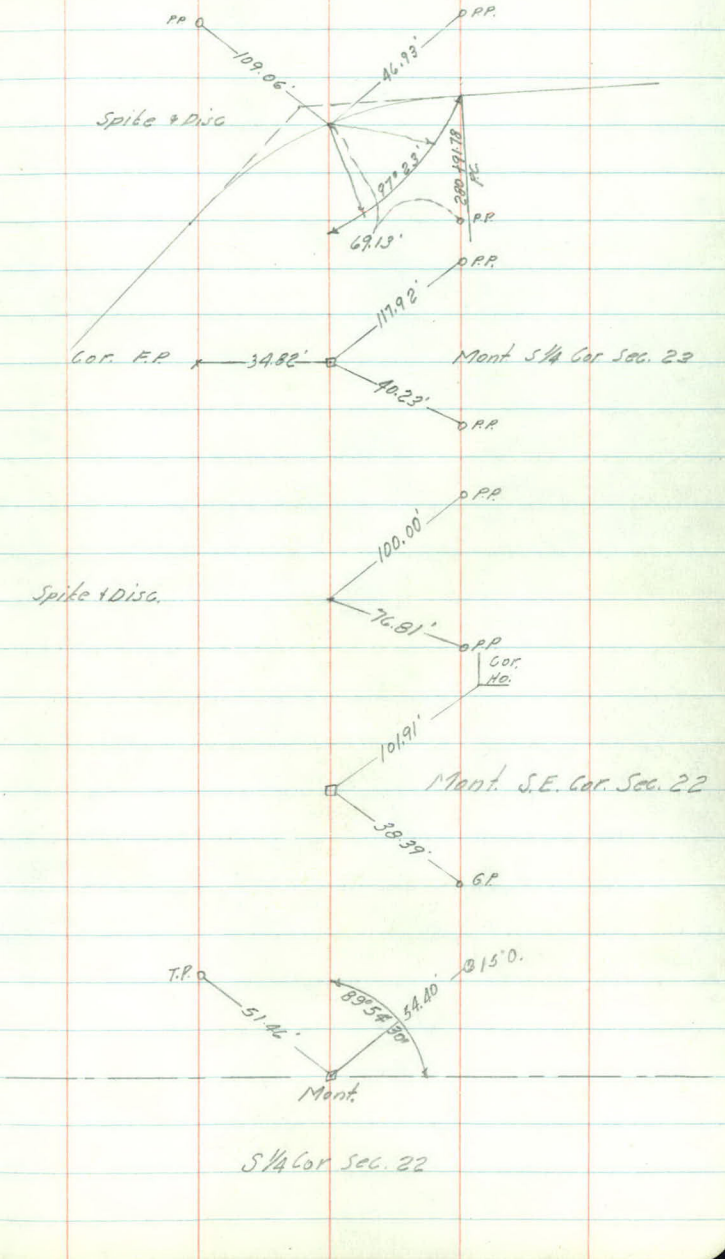
Hamline Ave to Victoria St.

INDEX

Alignment

Sta	Point	Δ Lt	Δ Rt
65 +93.33	P.O.T. = P.O.C. & Victoria st sta. 281+70.33		
52 +68.47	P.I.		0°00'30"
45 +61.57	P.O.T.		
26 +32.25	P.O.T. = ℄ Lexington Ave.		
0 +00 = ℄ Hamline Ave.			

12-4-41
K.A.
L.C.
M.B.
C.F.



Topography

+97-18"O-41'

+66-24"O-27'

+28-Stp-43'
+21-20"O-46'

5 11' 10' Stp-40'

+94-15"O-49'

+90-Stp-34'
+70-30"Coft-33'
+59-24"Coft-33'

+64-Stp-39'
+41-150-38'

+47-Ent- 15"X20'C.M / 22'
+39-30"O-42'
+28 Stp-33'

+28-12"O-36'
+27-15"O-38'

4 11' 10'

+98-15"Tw O-39'
+87-12"Conc wall-38' Old Approach
+74-12"Conc wall-34.5'
+34 Stp-35'

+50-End Brush

3 Brush-38' 10' 11'
+91-15"O-40'

+94-20"O-34' +Brush

+32-15"O-37'

+32-Stp-31'
+22-Stp-31' +35-Brush-41' +O
+15-12"O-38'
+07-Stp-30'

2 10' 10'

+75-Beg Brush-36'

+94-20"Ash-30' +12"O-36'
+95-Beg Brush-25-37'
+52-Stp-27'
+26-2"O-34'
+16-30"O-29'

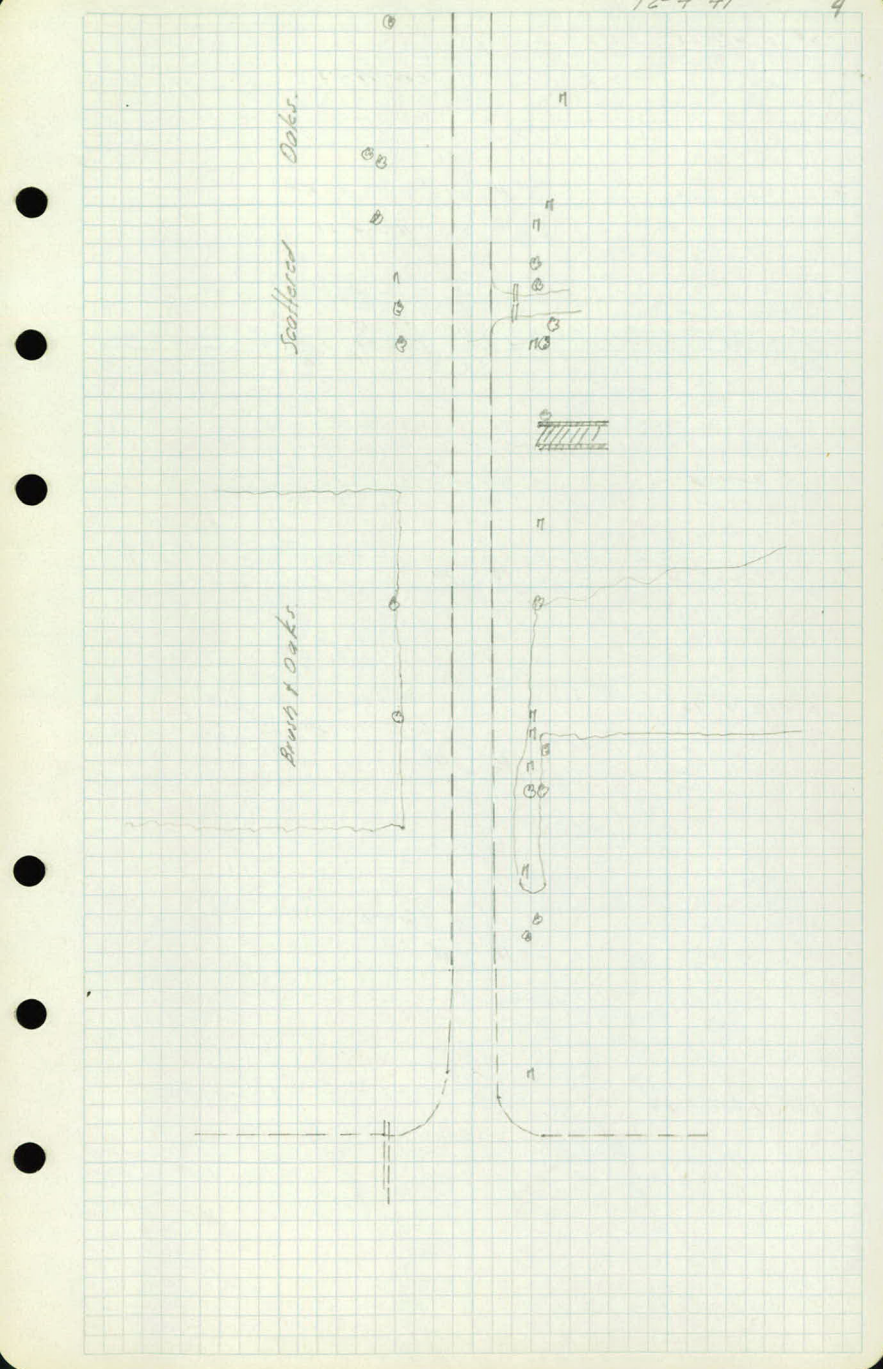
1 10' 11'

+47-Rox-14'
+33-Rod ---- 13'

+30-TP-43'
Under Hamline 40' Long
+20-End 15"C.M-44'
+13-Rod- 45' 36'

+45-Stp-30'
+34-10"O-29'

0+00


Scatterad Oaks.
Bunch Oaks.

+87-8"Tw.O-39'

+82-20"S-37'
+69-Stp-33'

12 Ent.

10' 11'

+04-15"O-33'

+91-Stp-37'

+59-High Line xs R

+31-Tele Line xs-R +27-H"P- 38'
+21-H" Pole - 32.5

+17-8"O-32' +10-High Line xs & +11-TP-26'

11 Swamp.-29' 10' 10'

+93-NDrain 18"xs 5'Conc. walls 27' 28'

+55-Swamp-27'
+38-10"O-39'
+31-12"Tw O-32'

+06-Ent. 15"x20'C.M / 22'

+02-Stp-25

10 10' 10'

+90-15"O-43'

+80-Stp-27'

+38-10"O-46'
+08-6"Pon-39'
+04-12"O-44'

+20-Dia Ditch-30'

9 10' 9'

+87-12"O-48'

+33-18"O-50'

+21-24"Willows-33'

8 11' 9'

+71-24"O-49'

+57-30"CotH-34'

+36-42"CotH-34'

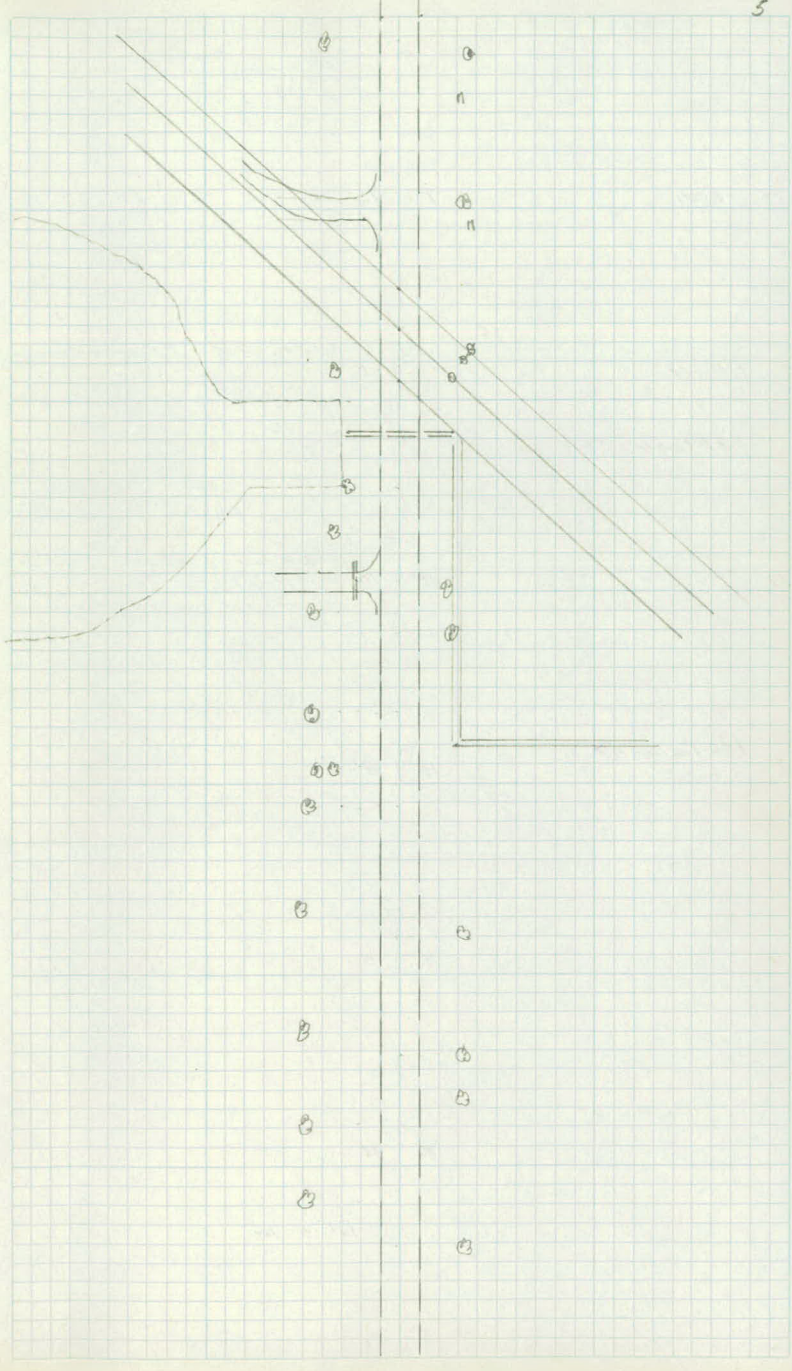
+23-24"O-49'

7 10' 10'

+03-24"O-48'

+11-18"Elm-34'

6 11' 10'



#20-Reg. Swamp - 31'

19 Brush - 30' 9' 12' Brush - 29'-44'

#52-12"D-34'

#23-Reg. Brush - 30'-43'

#01-Stp-30'

18 10' 11'

#50-8"D-36'
#81-Range Tie
#65-Swamp - 22' ℄

30' wide
#17-℄ Road. ℄

17 Swamp. - 30' 10' 10'

#50-Swamp - 28'

#46-Range Tie
16 Swamp. - 40' ℄ 10' 11'

#50-Bad Brush - 27'

#15-Stp - 35'
15 Brush - 35' 10' 11'

#65-Stp - 34'

14 Brush - 30' 10' 11'

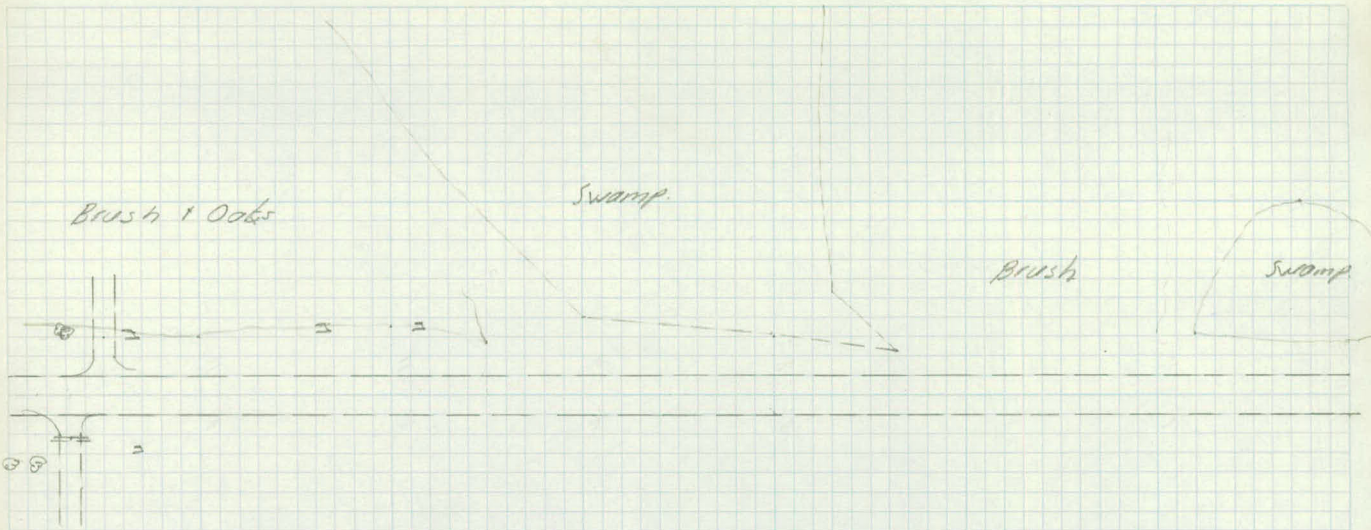
#66-6"D-30'
#50-Ent

#67-Stp - 28'

#30-6"D-31'
#29-6"D-31'

#32-Ent-15'x20' C.M - 21'
#15-24"D-35'
#03-15"D-35'

13 9' 11'


Brush + Oaks
Swamp
Brush
Swamp

+65-Rod. 11' 12'

+52-X Drain 15"X41'C.M. 20' 21' +60-F.P. 27'

+92-Rod. 35' 36'

+18-Rod. 39' 44'

26 +95-Rod. 12' 12' +105-C.P.-27'

25 10' 11'

24 9' 11'

+19-12"D.-33'
+16-18"D.-26'
+106-End 6"V.I.T.-42'
23 Old End 10' 12'
+99-End 6"V.I.T.-33'
+88-18"D.-33' Add'l Bit. Hom. Adv.-29'
+98-15"D.-34'
+67-End-15"X20'C.M.-26'
+49-15"D.-36'

22 10' 11'
+98-15"D.-32'
+67-12"D.-37'

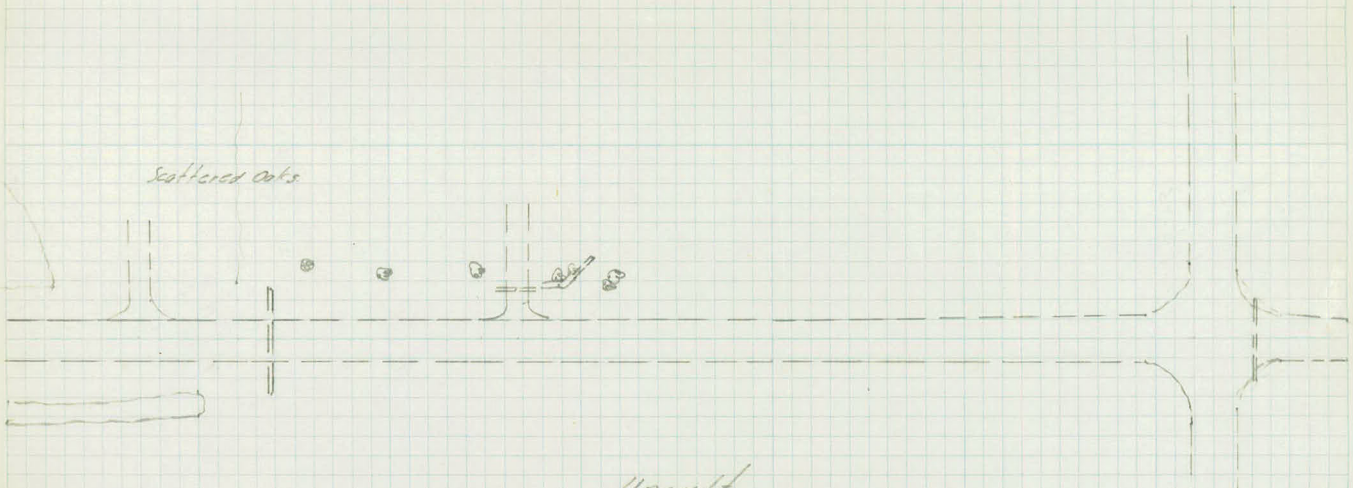
+52-X Drain-18"X53' Long 25' 28'
+20-Beg. Brush-29'

21 9' 11' End Brush-27'-40'

+70-End.

+25-End Swamp-27'

20 Swamp-24' 10' 11' Brush-31'-42'


Scattered oaks
Unoutl.

+48-Fc. Cor-34'
+24-PP-28'

33 Fc-32' 9' 11' Fc-35'

32 Fc-26' 9' 11' Fc-35'

+59-PP-28'

31 Fc-34' 9' 11' Fc-35'

+04-End 12" W.F-33'

30 9' 11'
+92-PP-28'
+85-End 6" W.F Tk-92'

+37-Bas. Fc-33'
+10-Bridal Path

29 9' 11' Fc-34'

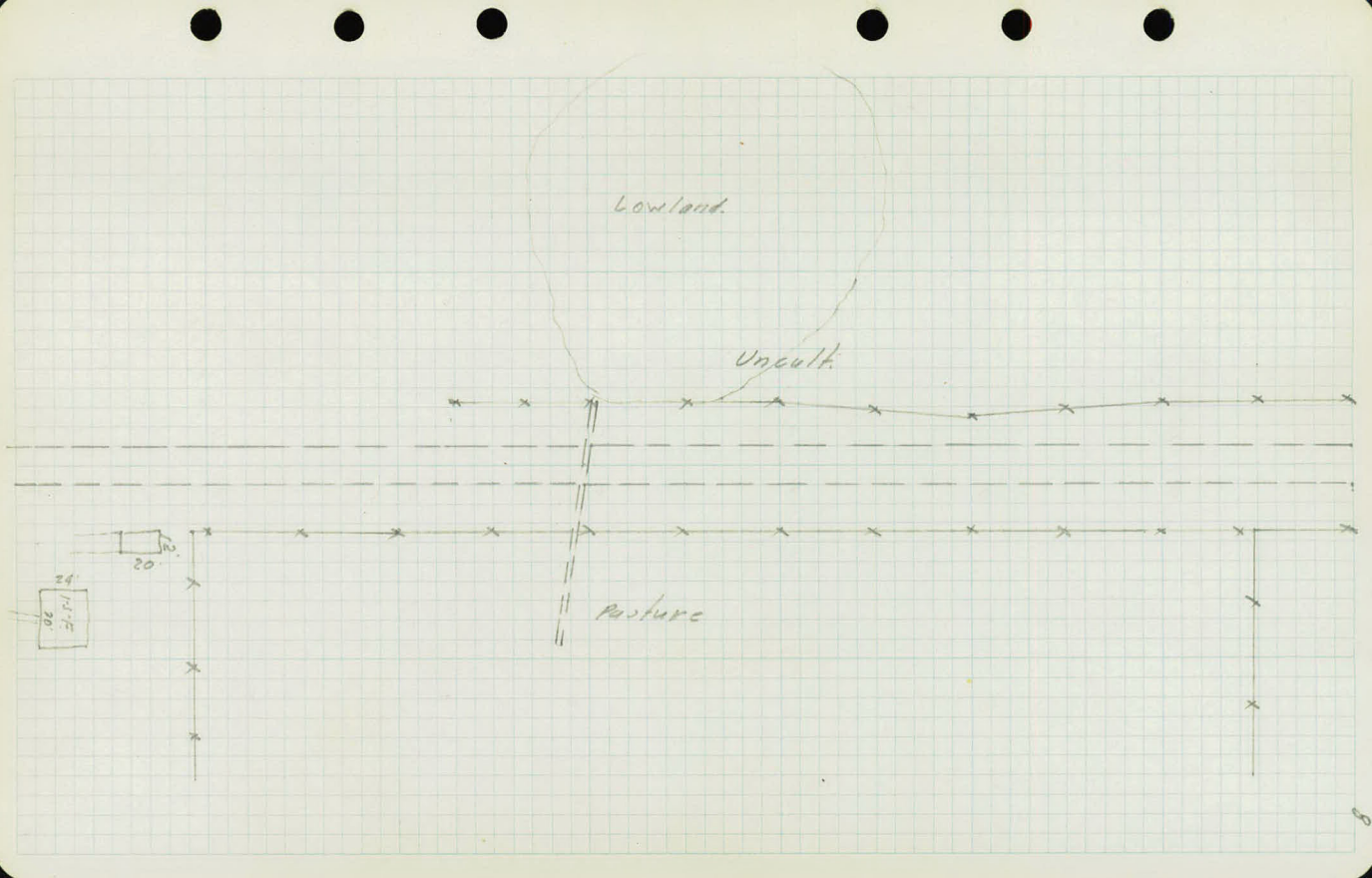
+24-PP-28'

28 9' 11'
+91-Fc. Cor-33'

+55-Cor Cor-33.5'

+12-N.W. Cor MO-65'

27 9' 12' +05-End


Lowland.
Uncult.
Pasture
20'
24'
20'

End 12" VIT - 35

+89 [illegible] 12"X67'VIT 35 32 +82-End 12" VIT - 32'

+30-Beg C.R. 13' Fc - 22'
+13-1
+105-End

+13-Beg C.R. 13'

40 9' 10'

+93-PP-28.5
+88-Fc Cor-35

+90-End → - 31'
+82-Beg small Trees-31'
+64-End
+51-Fc Cor-27'

39 10' 10' Fc-35'

+86-End C.R-13.3'

+70-End C.R-12.8'

+24-PP-28'

38 Fc-29' C.R.12.8' 9' 10' C.R-12.7' Fc. 34'

+90-Dirt Path-33 →
+17-Range Top →
+92-End 18'C.M.-33.3' 18"A 55'C.M.

+26-End 18'C.M.-32'
+103-Beg Path-35

37 Fc-30' C.R.-12.8' 10' 10' C.R/12.9' Fc-34'

Elec 12

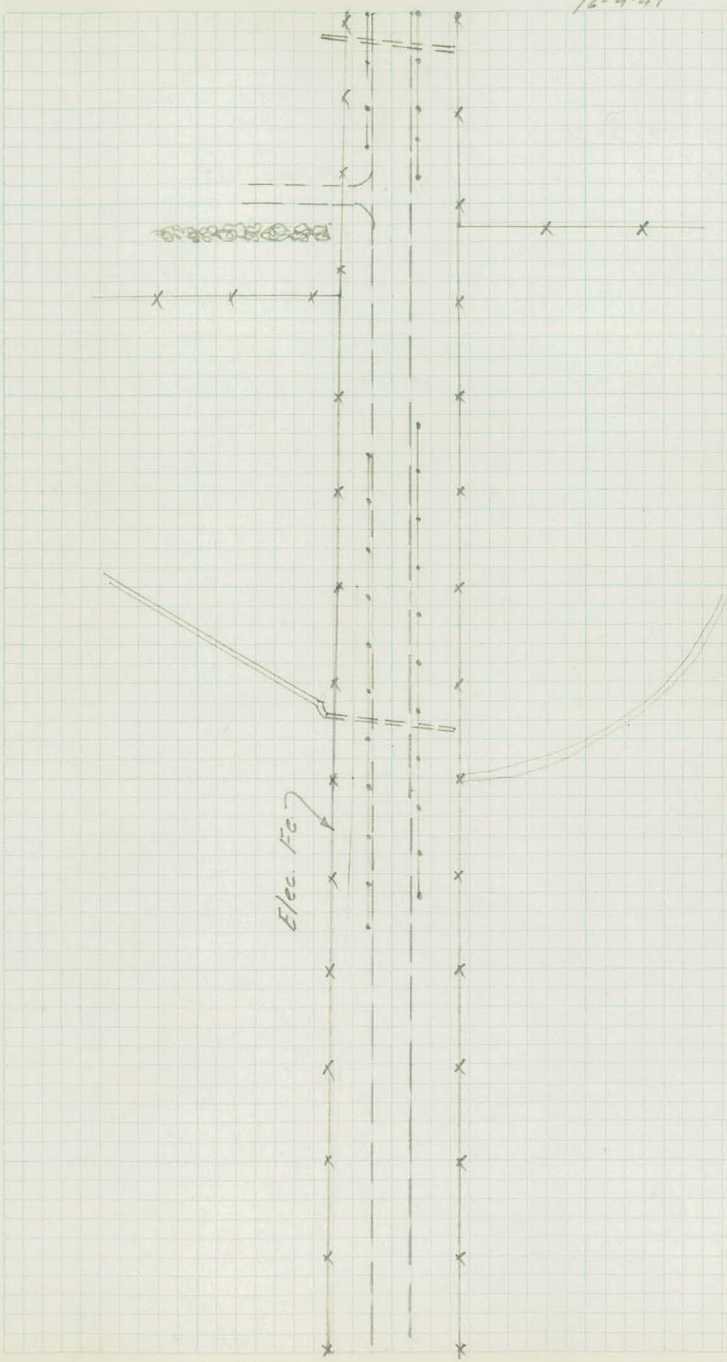
+58-PP-28'

+22-Beg. C.R-13.3' +38-Beg C.R. 13.3'

36 Fc-31' 9' 10' Fc-34'

35 Fc-32' 9' 11' Fc-34'
+91-PP-28'

34 Fc-33' 9' 11' Fc-34'


Elec. Fe.

+62-End Fe-13'

+39-Beg C.R-13'

47 +15-End-15"X20 C.M-21' Fe-

+81-C.P +Fe-27'

11' +13-Range Tie to Fe. Cor. 9'

+141-Beg C.R-132'

+99-Fe Cor-34'
+74-End-15"X30 C.M-21'

+59-PP-29'
+52.6'Maple-35'

46 Fe-27' 11' 9'

45 Fe. 27' 10' 9'
+90-P.P-29'

44 Fe-25 10' 9'

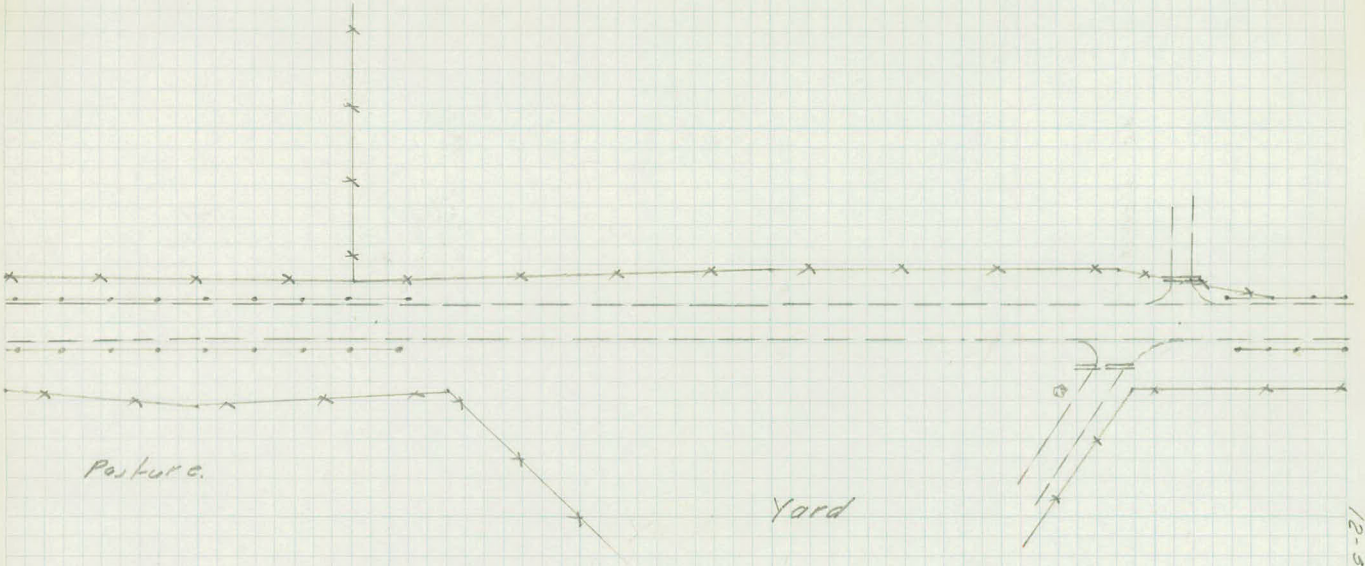
+131-Fe Cor-34'
+125-PP-29'
43 +11-End C.R-131' Fe- C.R- 9' 9' C.R Fe-
+107-End C.R-131'
+81-Fe Cor-22' +94-Range Tie to Fe. Cor.

+60-PP-29'

42 Fe-27 C.R/28' 9' 9' C.R/29' Fe-42'

+60-P.P-29

41 Fe-23' 10' 10' Fe-34'



12-5-41
10

54

10' 9'

+84-PP-29'

53

10 11'

+69-Fc. Cor-35'

+40-P.P-29'

52 Fc-35'

10 10'

51 Fc-29'

10 9'

+97-P.P-28'

+67-End C.R.-13'

+45-Beg. Fc-13'

+37-End 15"x20"-M-21'
+17-Fc. Cor-34'
+13-End C.R.-13.2'

50

10' 9'

+54-P.P-29'

+05-End 18" C.M. Culv.-36.5'

+01-End 18" C.M.-33.5'

49 C.R.-13'

10' 9' C.R.-13.2' Fc-35'

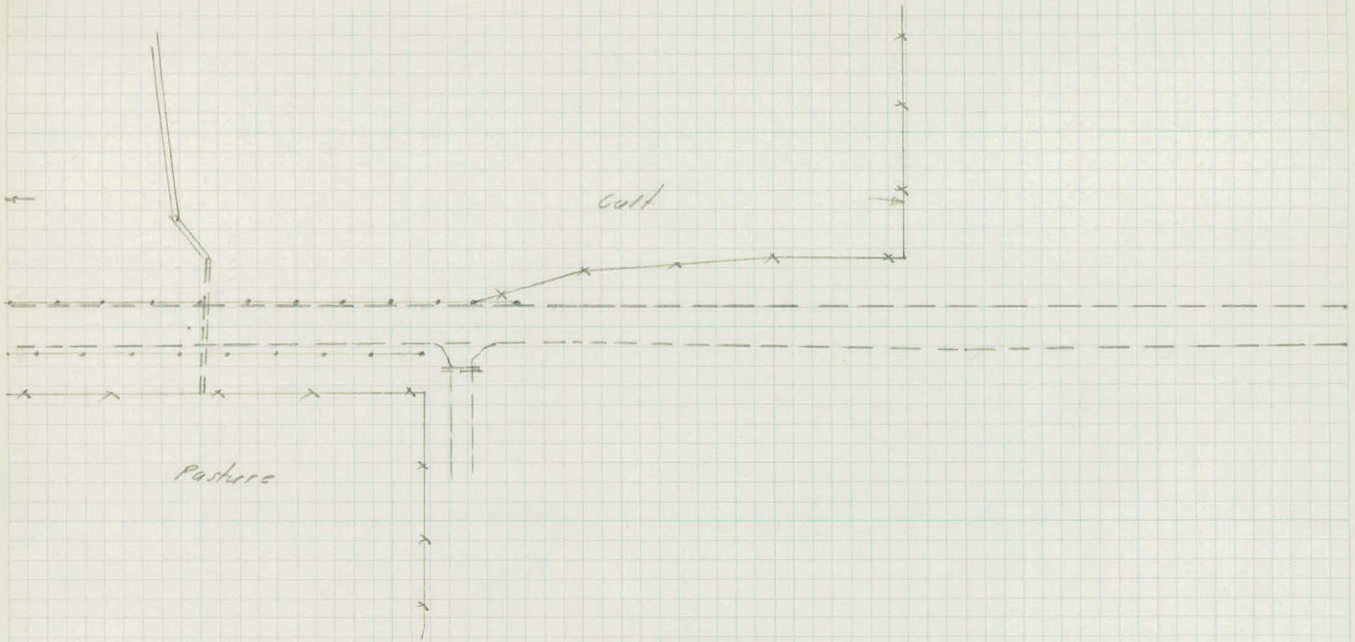
+94-Range Fc

+89-Dia Ditch-55'

48

+07-PP-29'

10' 10' Fc-34'


Cut
Pasture

61 9' 10' RP-28'

60 9' 11'

+57-RP-28'

59 9' 11'

58 9' 10' +15-RP-28'

+31-XD main 10"X56' CM. 33' 23'

57 9' 10'

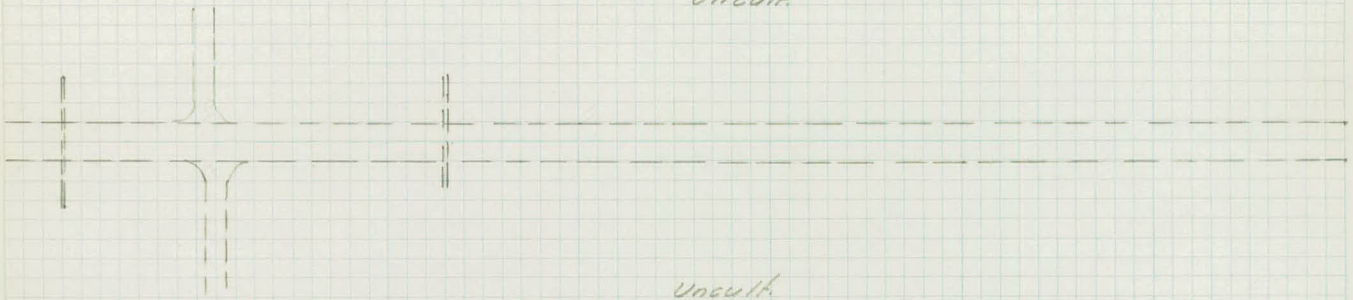
+70-RP-28'

56 +06-Ent. 10' 10' +10-Ent

+31-XD main-13"X66'C.M. 34' 32'

+27-RP-28'

55 10' 9'


Uncult.
Uncult.

C6

+80-Road-30'

+75-Road-28'
+60-Road-10'

+50-Road-10'
+31-PP-28'

C5 10' 11'

+61-End 12"C-M-29.5'

+65-End 12"C-M-25'

C4 10' 10'

+88-PP-28'

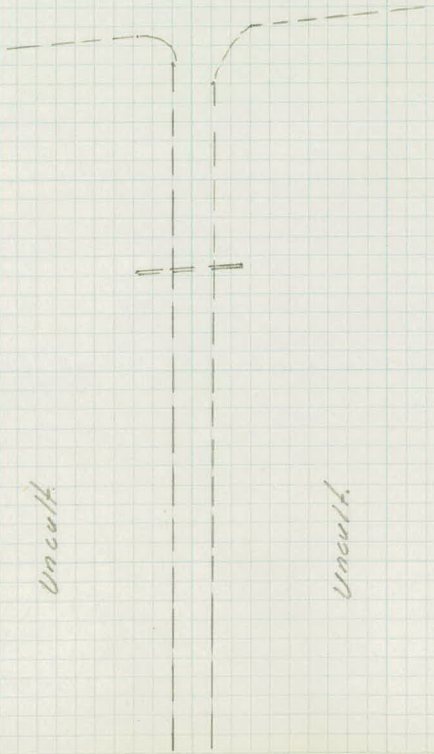
+33-End-

C3 9' 10'

+43-PP-28'

C2 9' # 10'

12-3-41 13



Bench Levels

Sta.	+	π	−	Elev.	
B.M.	4.05	972.36			968.31
T.P.	0.17	962.28	10.25	962.11	
T.P.	10.79	970.82	2.25	960.03	
B.M.			6.17	964.65	965.90
T.P.	10.29	980.11	1.00	969.82	
T.P.	1.12	977.04	4.19	975.92	
B.M.	13.48	988.50	2.02	975.02	
T.P.	0.47	988.91	0.06	988.44	
T.P.	10.22	988.51	10.62	978.29	
B.M.			5.53	982.98	983.50
T.P.	2.25	979.97	10.79	977.72	
T.P.	6.80	985.87	0.90	979.07	
B.M.			5.76	980.11	
B.M.			5.29	980.58	981.13 980.36

586E

Description

RR Spike in 18" O. 36 Rt. sta 18+05

Top Mont. Lexington Ave + Co. Rd "F"

68.31
65.82
65.30
.52

Spk in PP 28 Rt sta 39+89

6891
52
75.29

905.30
52
954.78

1/4 = -.13
1/2 = -.23

Top Mont sta 52+68.47

3/4 = -.22
1 = -.32

83.84
52
.32

Top Spk. Victoria + Co Rd "F"

Spk in PP S. W Cor. Victoria + Co. Rd "F"

980.95
52
928.43
11
.32

586E

X sections

These elevations are 0.52' lower than elevations west of Hamline Ave.

Sta.	+	↑	−	Elev.	
B.M.	5.36	988.35			(982.99)
0	+00			983.00	
	+16			983.3	
	+20			983.3	
	+23			983.3	
				83.3	
	+38				
	+63			83.3	
/				83.4	
	+15			83.5	

586E

Lt. R. Rt.

Top Mast Hamline Axis + Co. Rd "F" (U.S.G.S. Datum)

✓

4.8 5.4 5.9 6.3
50 50 100

✓

5.1 5.1 5.1 5.5 5.8 6.0
50 25 13 29 50

✓

6.1 5.2 5.2 5.1 5.9 7.3 8.5
50 40 21 21 28 50

✓

6.1 6.3 5.3 5.2 5.1 6.9 6.9 8.5
50 37 34 21 17 21 50

✓

2.0 6.0 6.5 5.3 5.1 5.7 6.2 6.3 6.8 4.2 6.5 8.7
50 36 30 26 13 16 19 23 27 32 50

✓

+2.7 +1.6 5.5 6.5 5.5 5.1 5.9 6.3 6.8 3.6 5.4 7.1
50 34 25 19 16 16 19 23 30 33 50

✓

+2.2 +1.1 5.8 6.6 5.5 5.0 5.6 6.7 6.6 3.2 4.1 5.7
50 33 25 19 16 15 19 24 30 33 50

✓

+1.5 +1.7 6.0 6.7 5.4 4.9 5.5 6.9 6.4 3.6 4.1 5.5 6.1
50 33 24 19 16 15 19 23 27 32 36 50

Sta.	+	H	−	Elev.
		989.35		
1	+55			983.5
	+90			83.4
2				83.4
	+28			83.3
	+60			83.4
3				82.4
	+37			81.8
	+80			80.9

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Lt ℄ Rt.

0.0 1.7 6.1 6.8 5.2 4.9 5.5 7.2 7.8 8.2 8.1 8.2
50 33 24 18 15 16 21 24 34 37 50

1.7 2.8 6.5 6.9 5.4 5.0 5.5 7.5 8.2 8.5
50 31 24 19 16 15 21 31 50

2.7 3.9 6.6 6.6 5.5 5.0 5.5 7.1 7.6 8.3
50 30 24 19 16 15 21 28 50

4.2 4.8 6.8 7.2 5.4 5.1 5.7 7.0 7.4 7.6
50 29 24 19 15 15 19 33 50

2.7 3.1 7.2 7.2 5.9 5.5 5.9 7.4 7.4 5.5 5.2
50 32 24 19 15 15 19 23 27 50

2.0 2.3 7.3 7.7 6.6 6.0 6.5 7.7 7.5 2.8 2.5
50 33 25 19 17 15 19 24 33 50

1.6 1.9 7.5 8.2 7.2 6.6 7.0 8.4 7.8 2.6 3.0
50 33 24 19 16 17 20 25 34 50

2.0 1.4 8.6 8.8 7.8 7.5 7.6 8.9 7.6 3.6 4.8
50 34 23 19 16 17 20 25 33 50

Sta	+	I	-	Elev.
		988.35		
4				980.9
T.P.	3.56	984.03	7.88	980.47
+50				979.2
5				77.9
+42				76.7
+72				75.7
6				74.6
+50				972.7
T.P.	0.23	971.36	12.90	971.13
7				971.1

586E

Lt. ℄ Rt.

2.9 2.3 2.3 9.5 9.5 8.3 7.9 8.2 9.5 9.4 4.7 5.4 5.9
50 43 34 23 18 16 16 20 24 33 35 50

1.4 2.1 6.3 6.5 5.3 4.8 4.8 6.3 6.2 2.7 2.8
50 33 24 19 16 15 19 24 31 50

4.0 4.6 7.9 7.9 6.8 6.1 6.4 7.5 7.4 4.1 3.1 2.1
50 30 24 19 16 16 20 24 30 45 50

5.7 5.3 9.1 8.8 7.7 7.3 7.5 9.0 8.9 4.5 3.7 1.9
50 32 24 18 15 15 19 24 33 41 50

9.4 9.1 10.0 8.8 10.1 10.1 8.6 8.3 8.5 9.9 9.9 4.2 3.8 1.1
50 38 35 26 23 20 15 15 19 24 33 39 50

11.2 11.3 12.2 12.0 11.0 11.0 9.7 9.4 9.6 11.0 11.3 6.3 4.4
50 40 36 31 26 19 15 15 19 23 33 50

12.6 12.7 14.2 13.8 11.7 11.3 11.7 13.5 12.7 12.2
50 46 41 22 16 16 20 38 50

10.5 6.2 2.5 2.9 2.3 2.3 0.6 0.3 0.9 1.3 4.4 4.3 4.1 3.7
50 43 39 27 25 19 15 13 16 27 33 34 50

Sta.	+	℄	−	Elev.
		971.36		
7	+50			969.2
8				67.7
	+50			66.6
9				65.9
	+17			65.7
	+21	& Ditch Bk.		65.6
	+29			65.5
	+60			965.3

Lt. C. Rt.

1.0 1.1 9.5 3.9 2.4 2.2 2.8 7.6 8.1 7.8
50 48 38 19 15 14 28 41 50

1.5 1.8 5.1 5.9 5.2 3.9 3.7 4.9 9.8 11.2
50 46 38 30 19 16 15 31 50

3.2 3.6 4.9 5.2 6.6 6.9 5.2 4.8 5.6 11.7 12.9
50 44 41 36 31 19 15 14 32 50

5.1 5.9 8.9 8.3 7.4 7.6 6.1 5.5 6.2 9.6 10.3 12.1 11.5 11.7
50 43 37 29 25 19 15 15 25 31 36 42 50

5.2 5.9 8.5 7.7 7.7 6.1 5.7 6.4 9.7 9.8 12.6 12.9 11.7 11.7
50 42 37 24 19 15 14 26 31 35 39 45 50

Ditto 417 Lt. 5.8 6.4 8.9 13.0 13.6 14.1 15.0 14.0
14 24 32 50 100 150 200

5.3 5.8 8.4 7.9 7.9 6.2 5.9 6.5 8.3 13.0 12.8 10.5 10.1
50 43 37 24 21 15 14 22 30 31 36 50

5.5 6.2 8.6 8.0 8.0 6.5 6.1 6.5 9.3 13.0 13.0 10.2 9.5
50 42 36 23 20 16 14 24 29 31 35 50

Sta	+	π	−	Elev	
		971.36			
10				965.1	
+50				64.9	
+83	XDrain			64.8	
11				64.9	
+50				965.1	
T.P.	6.87	972.17	6.01	965.35	(965.30)
12				965.7	
+35				66.0	
+66				66.4	

566E

Lt. ℄ Rt.

7.0 7.0 8.0 8.2 6.6 6.3 7.0 9.9 12.8 12.8 10.9 10.5
50 39 34 20 15 15 25 28 30 34 50

11.1 10.8 7.1 6.5 7.0 11.5 12.0
50 27 16 14 28 50

Culv. Culv.

11.9 11.38 7.2 6.6 7.1 11.94 12.3
50 27 15 14 28 50

10.9 10.6 7.2 6.5 7.0 12.0 12.5
50 25 15 15 28 50

10.2 10.7 10.1 6.9 6.3 6.7 11.1 11.4 11.4
50 34 25 15 15 28 39 50

10.0 9.7 7.0 6.5 7.1 9.5 9.6 7.8 7.3
50 25 15 15 29 27 30 50

9.4 8.7 6.6 6.2 6.7 8.6 8.4 5.9 9.8 9.0 9.0
50 23 15 17 23 24 32 37 39 50

9.1 9.1 6.4 5.8 6.4 7.6 7.6 3.7 3.4 2.8 2.8
50 24 14 16 21 24 31 37 39 50

Sta.	+	=	−	Elev.	
		972.17			
13				966.8	✓
B.M.	4.47	972.93	3.81	968.36	(968.31)
+50				967.3	✓
14				67.4	
+33				67.7	
+58				67.6	
15				67.2	
+30				67.0	
+70				66.4	

586E

Lt. & Rt.

7.2 8.6 8.8 6.0 5.4 6.0 7.0 7.9 4.6 3.8 4.0 ✓
50 31 23 16 16 19 25 30 43 50

R.R. Spike in 18"O. 35' Rt Sta 13+05

7.8 8.2 7.4 5.7 5.5 5.9 7.0 7.0 6.8 5.6 5.7 ✓
50 38 21 15 15 19 23 24 39 50

6.1 4.7 6.5 6.8 5.4 5.2 5.7 6.8 6.8 2.9 2.7 ✓
50 28 24 19 16 16 18 24 31 50

3.1 1.9 6.0 6.7 5.2 5.1 5.5 6.5 6.4 1.1 1.8 ✓
50 32 25 19 15 15 18 23 33 50

2.6 1.4 0.7 5.9 6.6 5.3 5.2 5.4 6.5 6.5 1.0 1.8 ✓
50 44 33 25 19 15 15 18 23 33 50

2.7 2.1 6.4 7.0 5.8 5.6 6.0 6.8 6.8 2.0 2.8 ✓
50 33 25 19 16 16 18 24 33 50

4.8 4.0 7.0 7.9 6.0 5.8 6.3 7.5 7.0 3.1 3.7 ✓
50 29 24 20 16 15 19 24 32 50

10.4 9.3 8.3 6.6 6.4 6.6 7.7 7.8 5.6 4.6 ✓
50 30 22 16 16 18 23 28 50

Sta	+	℄	−	Elev.
		972.83		
16				966.0
+29				65.6
+61				65.1
+97				64.4
17				64.4
+36				63.5
+40				63.5
T.P.	2.92	965.73	10.02	962.81
+69				962.7

Lt. | ℄ | Rt.

37 37 133 124 104 88 72 68 70 82 83 48 47 37 37 ✓
50 50 40 28 22 16 15 19 24 31 45 46 50

131 132 7.6 7.2 7.4 8.7 8.0 2.6 2.6 ✓
50 32 16 15 19 39 45 50

134 133 8.0 7.7 7.9 9.2 8.6 31 31
50 33 16 15 19 38 45 50

Ditto sto 17 8.4 8.4 10.1 9.5 9.2 49 50
15 21 30 38 42 50

132 132 116 91 8.4 8.7 7.7 7.5
50 33 25 17 15 29 50

L.O. 13.2 9.8 9.3 9.4 8.9 8.9
23 15 15 31 50

Ditto +36 9.3 9.4 10.8 10.7 8.7 8.3 8.3
15 20 26 36 41 50

32 40 46 47 34 3.0 31 43 42 5.0 39
50 43 25 20 16 15 19 25 38 50

Sta.	+	HI	−	Elev.
		96573		
18				962.2
	+36			61.6
	+65			61.0
19				60.3
	+50			59.3
20				58.4
	+28			57.9
	+57			57.4

586E

Lt. R Rt.

0.9 3.1 4.9 5.1 3.7 3.5 3.7 5.0 5.1 5.1
50 28 24 20 16 16 20 29 50

3.9 4.5 4.6 5.6 5.5 4.3 4.1 4.3 5.5 5.7 4.9 5.0 4.0 4.0
50 41 28 24 19 16 16 19 29 31 40 45 50

4.2 5.1 4.3 6.0 6.0 4.9 4.7 4.8 6.0 6.2 5.1 4.8 4.1
50 27 28 24 20 16 15 19 27 33 38 50

9.1 8.7 5.8 5.4 5.6 7.0 7.0 4.8 4.7
50 25 16 17 19 26 41 50

12.3 12.4 7.1 6.4 6.7 8.0 8.6 7.6 7.9
50 32 16 15 19 31 43 50

12.3 12.3 7.8 7.3 7.6 8.7 8.7 6.4 5.1 4.5
50 29 16 16 19 27 30 40 50

11.0 11.4 12.3 11.2 10.9 8.2 7.8 8.1 9.1 9.3 5.0 3.6 3.2
50 37 35 33 25 16 15 19 23 29 39 50

10.6 11.5 12.5 11.6 11.5 8.7 8.3 8.5 9.5 9.9 8.0 6.1 5.0 4.7
50 33 32 30 26 16 14 18 23 26 35 45 50

Sta	+	=	-	Elev.
		965.73		
21				956.8
T.P.	10.79	964.43	12.09	953.64
	+39 XDrain			956.5
	+67			56.6
22				56.9
	+26			57.4
	+54			57.9
	+81			58.4
23				958.8
T.P.	8.18	968.43	4.18	960.25

586E

Lt. C. Rt.

11.2 11.9 12.2 9.3 8.9 9.2 11.6 11.6 10.3 10.0
50 41 24 16 15 25 32 43 50

Culv. Culv.

11.1 11.70 8.3 7.9 8.2 12.2 12.26 12.7 11.6
50 25 15 15 28 283 41 50

9.6 10.0 10.6 10.5 8.1 7.8 9.2 12.8 13.8 14.0
50 27 26 23 16 17 29 36 50

5.0 6.2 10.2 10.2 7.9 7.5 8.0 10.6 11.5 10.7 11.2
50 32 26 21 16 16 24 37 39 50

3.1 3.5 10.2 10.1 7.5 7.0 7.6 9.1 10.2 8.2 8.4
50 37 26 22 16 17 21 35 38 50

5.3 5.1 9.4 9.5 7.0 6.5 7.1 8.4 8.7 5.4 5.4
50 35 29 21 15 15 19 33 40 50

6.8 6.4 9.1 9.1 7.8 6.5 6.0 6.6 8.0 8.2 5.8 5.8
50 27 23 21 19 15 16 20 24 27 50

7.0 6.9 6.4 6.1 5.6 6.2 7.6 7.7 6.9 6.9
50 32 17 15 15 19 23 25 50

R. to 24

Sta	+	I	−	Elev.	
		968.43			
23	+50			959.4	
24				960.2	
	+50			61.1	
25				62.3	
	+42			63.0	
	+63			963.3	
B.M.		6.77	971.42	8.75 964.68	(964.65)
26				964.0	
B.M.					
	+16			64.9	

586E

Lt Rt Pt

11.9 11.6 11.3 9.5 9.0 9.8 12.0 12.3
50 37 21 16 15 23 50

11.6 11.0 10.6 8.7 8.2 8.8 12.3 12.7
50 33 22 16 16 26 50

8.9 9.1 10.0 9.9 7.6 7.3 8.0 11.4 12.8
50 32 26 22 16 15 27 50

6.0 6.0 9.0 8.8 6.6 6.1 7.1 8.3 9.3 10.2
50 40 26 23 16 16 20 34 50

5.8 5.4 7.1 7.9 5.8 5.4 5.9 7.1 7.2 5.1 6.9
50 38 24 22 15 15 19 22 27 50

5.6 6.3 7.2 7.1 5.7 5.1 5.7 6.8 6.9 4.9 5.8 6.5
50 38 26 20 15 15 19 22 27 43 50

Top Mont. Lex. & Co. Rd. "F"

6.6 6.6 8.2 9.0 8.9 7.8 7.4 7.7 8.3 9.1 9.9 10.5
50 40 26 24 20 17 13 19 23 37 50

5.9 6.8 6.8 7.0 8.2 8.6
50 31 20 36 50

Sta	+	℄	−	Elev
		971.42		
26	+32.25			969.6
	+46			64.9
	+52			65.0
	+59			65.1
27				65.6
	+21			66.0
	+55			66.5
	+75			966.8

Cold & Windy

586E

Lt & Rt

5.2	6.8	8.2
50		50

5.7	6.5	6.5	8.0	8.6
50	25		28	50

Culv. Culv.

7.5	8.6	6.7	6.3	6.4	7.0	8.0	10.1	10.2	
50	20	16	7		11	19	21	50	

4.0	5.4	7.8	8.0	6.6	6.3	7.4	8.6	8.6	8.0	9.4
50	29	23	20	15		16	20	23	24	50

5.3	5.9	7.2	7.3	6.1	5.8	6.3	7.9	8.5	8.9
50	27	23	19	15		15	20	35	50

4.9	4.7	7.0	7.0	5.6	5.4	5.9	7.1	7.1	9.8	9.9
50	28	23	19	15		15	20	29	45	50

9607

4.2	4.0	4.6	6.3	6.2	5.2	4.9	5.4	9.1	10.4	11.8		10.7
50	38	27	23	19	16		15	27	34	50		Ex. Gar. Floor

3.5	3.6	4.5	6.0	6.0	4.7	4.6	5.3	9.8	12.0	
50	48	27	23	19	15		17	29	50	

Sta	+	HI	-	Elev
		971.42		
28				967.1
+50				67.9
+87				68.5
29				68.6
T.P.	7.20	975.87	2.75	968.67
+50				969.5
+85 Flow Line Tile Rt.				
30				70.2
+04 Flow Line Tile Lt.				

586E

4 2 84

31 39 56 56 44 43 47 80 101 110
50 29 23 20 16 15 26 39 50

28 24 51 53 37 35 41 61 69 59 67 89
50 29 24 20 15 17 22 23 29 34 50

50 43 37 48 43 33 29 33 57 58 52 78
50 36 29 23 20 15 16 23 26 29 50

63 48 46 32 28 30 57 61 56 80
50 28 20 15 15 23 26 27 50

136 130 69 64 69 124 140
50 34 16 15 32 50

18.4
92

142 141 63 57 65 123 136
50 34 16 16 32 50

14.45
33

Sta	+	H	−	Elev
		975.87		
30	+50			
31				
	+50			
T.P.	7.07	981.21	1.73	974.14
32				
	+35			
	+75			
33				
	+32			

Lt C Rt

13.9 12.8 6.0 5.3 4.8 5.3 7.8 8.6 9.2
50 32 17 11 15 23 33 50

13.4 12.0 5.1 4.2 3.9 4.4 5.9 6.0 5.3 5.4 5.9
50 32 16 12 16 21 24 25 33 50

10.5 9.2 8.1 3.5 2.9 3.4 4.6 4.1 10.5 10.1
50 44 30 16 16 19 24 33 50

12.4 8.4 9.0 9.0 7.9 7.1 7.8 9.1 8.7 1.9 2.7
50 25 23 20 16 15 19 24 33 50

7.7 5.8 5.8 8.0 8.2 7.1 6.5 7.3 8.5 8.4 5.5 5.8 6.1
50 37 28 24 19 16 15 18 23 29 33 50

4.4 4.9 7.7 7.8 6.3 5.9 6.6 8.2 8.1 7.1 9.8
50 30 24 19 15 15 19 24 33 50

3.5 3.7 7.2 7.6 5.9 5.6 6.3 7.5 7.6 7.2 8.5 9.5
50 32 24 19 14 16 19 24 25 34 50

2.1 1.9 6.1 6.8 5.4 5.3 6.0 7.0 6.9 4.8 5.5 7.1
50 33 26 19 15 16 19 23 29 33 50

Sta	+	H	-	Elev.
		981.21		
33				
	+70			
34				
	+39			
	+61			
35				
T.P.	2.26	979.62	5.85	975.36
	+25			
	+55			
36				

586E

Lt. R. Bt

2.5 1.8 6.0 6.3 5.3 5.2 5.5 6.5 6.2 0.0 1.8
50 33 24 19 16 16 20 23 33 50

1.8 1.7 5.7 6.1 5.3 5.2 5.4 6.6 6.0 1.0 3.0
50 34 24 19 15 16 19 29 33 50

1.1 1.9 6.0 6.5 5.4 5.2 5.7 6.6 6.3 3.5 5.1
50 33 25 19 16 16 21 23 32 50

2.3 3.2 6.3 6.6 5.6 5.4 5.7 6.8 6.6 2.2 3.0
50 32 25 19 16 17 21 23 32 50

3.8 4.3 6.9 7.3 6.1 5.9 6.2 7.1 7.1 5.3 6.0
50 30 25 20 17 14 19 23 29 50

Lt 9 35 Loo R

0.0 0.4 3.6 4.0 2.6 2.7 2.9 4.0 4.2 3.5 3.9 4.3
50 32 25 19 16 15 19 24 26 37 50

0.0 0.4 4.0 4.5 3.2 3.1 3.7 4.6 4.7 3.3 3.8 4.2
50 32 25 19 16 16 18 23 27 [illegible] 50

2.9 4.0 5.0 5.4 5.5 4.2 3.9 4.5 5.5 5.5 3.5 3.3 3.0
50 36 25 24 20 16 15 18 23 28 36 50

Sta.	+	X	−	Elev.
		97.7.62		
36	+30			
	+75			
37				
	+02	Profile of ditch Et		
	+26			
	+32			
	+32	Profile of ditch Lt		
38	+50			

586E

179
15
13 4

12-9-41

31

Lt. Rt.

6.3 7.8 8.3 4.8
50 37 23 15

4.5 4.7 5.2 6.4 6.3 5.6 3.7
13 16 21 23 33 50

8.7 9.7 10.1 9.0 6.0 5.3 5.2 5.5 6.4 11.4 12.0 11.4
50 42 31 25 17 13 12 16 29 36 50

9.4 10.1 10.4 9.3 6.0 5.6
50 44 31 25 16 12

5.4 5.8 6.6 12.5 13.0 13.3
13 17 32 36 50

13.7 13.9 14.6 14.8
39 50 100 150

Calv

10.1 10.6 9.5 6.2 5.8 5.7 6.1 7.0 12.9 13.0 13.1 13.4
50 32 27 17 12 13 17 32 40 50 32

Calv

10.0 10.4 12.4 12.5 10.8 8.5 6.2 5.9 5.8 6.0 6.8 12.1 12.8 13.0
50 39 36 33.3 32 24 16 12 13 17 31 36 50

Calv

10.3 10.2 10.7 10.8 10.7 11.3 12.5
300 250 200 150 100 50 33.3

10.6 10.6 9.6 6.6 6.1 5.9 6.1 6.7 12.0 12.4 12.4
50 32 27 17 12 12 16 32 37 50

Sta.	+	H	−	Elev.	
		977.62			
38					
	+35				
	+70				
39					
	+30				
	+65				
	+85				
40					
B.M.	7.41	982.43	2.60	975.02	(975.02)

586E

Lt. & Rt.

85 90 96 94 67 62 61 64 71 115 119 115 118
50 35 27 24 15 12 13 16 30 41 45 50

51 62 84 83 76 63 61 65 74 112 121 124
50 36 25 22 19 12 12 16 28 40 50

30 29 40 77 76 62 60 59 63 67 100 105 116
50 45 39 24 19 16 13 13 16 26 33 50

24 26 35 62 74 72 57 56 60 73 88 95 101
50 43 35 26 24 19 15 13 18 34 44 50

24 31 55 66 66 51 51 56 68 70 61 69 76 83
50 37 29 24 19 15 14 18 23 26 34 45 50

55 53 63 59 44 44 49 63 66 48 51 55 60
15 33 29 23 16 14 17 23 26 33 46 50

69 67 62 56 42 41 43 61 60 38 39 42
50 35 25 19 16 13 17 23 27 37 50

86 81 66 54 38 39 41 59 59 55 52 46
50 43 26 17 14 14 19 24 25 34 50

Spk in PP 28 El Sta 391 89

Sta	+	℄	−	Elev
		982.43		
40	+50			
	+89	X Drain Profile Lt		
	+82	Profile X Drain El.		
41				
	+50			
42				
	+50			
43				
T.P.		13.76	998.93	0.26	982.17

586E

Lt C Rt

143 138 116 81 75 76 78 83 136 143 142 133
50 34 25 16 13 13 14 27 42 39 50

Culm

152 133 135 149 149 134 114 66 67 65
35 50 38 37 35 34 24 14 10

Culm

67 73 78 152 154 154 165
13 15 31 36 50 32

136 135 127 113 65 62 61 66 72 153 157 157
50 38 32 24 16 13 13 15 32 38 50

122 121 108 53 46 46 51 57 135 148 153
50 33 29 15 13 13 14 30 39 50

102 102 87 35 30 29 31 36 119 132 136
50 33 29 16 13 13 16 30 38 50

74 73 67 17 13 12 15 20 107 115 120
50 32 29 16 12 12 14 31 37 50

63 66 75
31 38 50

Sta	+	T	-	Elev.
		995.93		
43				
	+30			
	+70			
44				
	+35			
	+60			
45				
	+16			

Lt. ℄ Rt.

12.6 14.7 14.9 14.4 13.2 12.9 12.9 13.1 13.7
50 28 25 21 16 14 12 17

6.9 8.7 12.6 12.8 12.0 11.9 11.9 13.2 13.2 11.9 13.6 14.6 15.7
50 32 25 19 15 15 18 23 25 33 39 50

13.0 10.5 10.7 11.5 10.5 10.5 10.7 11.9 14.8 6.8 8.6
75 42 25 18 15 15 18 24 33 50

9.6 10.4 9.5 9.6 9.9 11.2 11.4 10.8 8.2 4.5 8.5
26 17 15 16 20 22 25 37 50 75

8.7 9.6 9.1 9.0 9.2 10.3 9.8 0.7 1.7 4.4
27 16 15 15 19 26 42 50 75

8.4 9.3 8.6 8.7 8.9 10.1 9.5
27 16 19 16 19 26

8.7 9.3 8.5 8.5 8.6 9.5 9.1
26 17 15 15 18 25

9.0 9.3 8.4 8.5 8.5 9.5 9.0
26 16 14 16 19 25

Sta	+	=	−	Elev.
		995.93		
45	+44			
	+65			
F.P. #1			8.63	987.30
T.P.	10.15	1006.08	0.00	995.93
44				
	+35			
	+60			
45				
	+16			
	+44			

Lt. ℄ Ft.

9.3 9.6 8.6 8.6 8.7 9.8 9.4
26 17 14 16 19 25

9.6 10.0 8.8 8.7 8.8 9.8 9.5
26 18 15 15 18 25

2.8 5.1
75 47

0.6 1.9
75 51

1.6 3.0
75 49

9.0 9.4 11.3
43 53 75

6.3 7.2
75 43

6.0 7.4 8.2
46 62 75

7.9 8.5
75 42

5.8 6.8 8.2
46 61 75

9.4 9.5
75 41

10.8 10.9 9.8 9.1 9.9
39 42 44 58 75

Sta	+	π	−	Elev.	
		1006.08			
45	+65				
46					
T.P.	1.33	997.26	10.15	995.93	
T.P. #1	9.98	997.28	9.98	987.28	987.30
46					
	+50				
47					
T.P.	0.15	883.94	13.49	883.79	
	+30				
	+60				
48					

12-9-41

Lt. R. Rt.

9.6 9.9 8.9 9.2 11.2
7.5 4.0 4.1 5.6 7.5

10.0 10.5 11.2 11.9 13.2 15.3
7.5 5.0 3.9 3.8 5.3 7.5

11.3 11.9 10.6 10.6 10.7 11.8 11.1
2.6 1.9 1.6 1.6 1.9 2.5

6.4 7.9 12.6 13.2 12.2 11.9 12.0 13.2 13.1 10.1 11.1 12.1
5.0 3.9 2.5 1.9 1.6 1.5 1.8 2.4 3.0 4.3 5.0

11.9 13.7 15.1 15.1 14.0 13.5 13.6 15.2 15.1 13.4 13.4 13.9
5.0 2.7 2.4 1.9 1.6 1.5 1.9 2.4 2.7 3.3 5.0

2.9 9.5 4.4 3.3 2.0 1.6 1.2 1.6 2.8 2.6 2.1 2.4 3.5
5.0 3.1 2.5 2.0 1.7 1.4 1.4 1.9 2.5 2.9 4.0 5.0

7.6 9.2 8.6 2.6 2.3 2.8 5.4 5.8 7.6
5.0 3.9 2.9 1.5 1.4 2.2 3.4 5.0

11.6 11.4 13.3 12.1 3.8 3.6 3.8 4.8 13.2 13.9
5.0 4.3 3.7 3.2 1.4 1.1 1.5 3.3 5.0

Sta	+	H	−	Elev.
		893.94		
48	+50			
49				
	+01	Profile Ditch Rt.		
	+05			
	+50			
50				
	+27			
	+48			
T.P		7.14	889.31	2.77	891.17

Lt. R. Pt.

160 165 54 50 5.5 68 16.6 17.4
50 34 15 12 16 34 50

172 167 59 58 63 174 178
50 34 13 14 33 50

Culv.

191 177 188 193 191
335 35 50 100 150

Culv.

186 180 178 181 183 184 189
300 250 200 150 100 60 36.5

162 160 60 57.1 162 17.4
50 34 15 14 32 50

136 131 52 50 54 134 148
50 ~~34~~ 15 14 32 50
33

118 110 45 45 50 60 60 56 63
50 30 14 15 21 25 26 50

80 57 46 36 36 37 48 44 00 08
50 27 20 15 15 19 24 31 50

Sta.	+	H	−	Elev.	
		998.31			
51					
	+21				
	+70				
52					
B.M.	10.54	993.52	5.31	988.00	982.98
	+45				
	+70				
53					
	+50				

586E

Lt. E. Rt.

9.8 7.3 8.5 8.4 7.4 7.1 7.4 8.4 8.1 1.5 2.6
50 26 23 19 16 16 19 24 34 50

58
6.9 6.8 7.8 7.9 6.8 4.6 6.8 8.0 7.7 1.4 2.3
50 29 24 20 17 16 19 24 33 50

1.7 2.0 6.4 6.9 5.8 5.6 5.9 7.0 6.9 3.5 4.5
50 33 25 19 16 15 19 24 32 50

10.7 10.0 5.9 6.5 5.4 5.2 5.5 6.7 6.2 2.8 3.8
50 34 24 20 16 16 19 24 32 50

Top Mont. R sta. 52+63.47

2.8 3.1 10.5 11.5 10.5 10.2 10.3 11.6 11.4 5.3 6.1
50 34 24 19 16 15 19 24 33 50

1.5 2.0 10.3 11.2 10.2 10.3 10.3 11.8 11.3 5.0 6.0
50 34 24 19 15 15 19 24 33 50

5.2 2.9 11.0 11.7 10.7 10.6 10.5 11.9 11.8 7.7 8.6
50 34 24 19 16 15 18 23 33 50

8.3 8.1 12.5 12.8 11.6 11.4 11.8 12.7 12.6 9.8 10.0
50 33 24 19 16 16 19 24 30 50

Sta.	+	HI	−	Elev.
		993.52		
54				
TP	0.05	980.88	12.69	980.83
+34				
+73				
55				
+31				
+66				
56				
+27				

Lt. ℄ Rt.

114 106 139 140 131 127 129 139 140 134 143 137
50 31 24 19 17 16 19 23 26 39 50

29 1.2 23 23 13 1.1 14 4.7 5.7
50 26 23 19 16 15 25 50

82 7.5 2.9 2.3 2.9 7.8 8.7
50 27 16 16 28 50

105 10.1 37 31 36 92 100
50 33 16 15 30 50

Culv. Culv.

12.5 10.9 11.0 47 4.0 4.5 8.4 10.2 9.7 11.85
34 50 33 17 14 23 32 50 32

101 104 96 54 48 54 89 78
50 37 27 16 14 26 50

101 88 56 5.4 6.0 7.2 6.6 6.2
50 24 15 15 20 32 50

11.0 107 103 60 57 60 75 69 6.3
50 42 27 14 14 20 30 50

Sta	+	π	-	Elev.
		980 89		
56	+70			
57				
	+25			
	+31			
	+65			
58				
	+32			
TP		9.55 985 .14	5.29	975 .59
	+71			

Lt. & Rt.

13.9 13.4 10.6 6.3 6.0 6.4 9.7 9.7 8.7
50 36 26 14 14 21 31 50

13.8 13.1 6.4 6.1 6.6 9.9 10.1 9.2
50 31 14 14 21 32 50

13.5 13.2 6.5 6.2 6.6 10.8 10.0 9.0
50 34 14 14 23 33 50

Culv. Culv.

13.4 13.35 6.5 6.2 6.6 11.75 11.4 10.1 9.0
50 33 13 14 23 30 33 50

12.9 12.2 6.6 6.3 6.7 11.1 11.4 10.3 9.3
50 29 14 14 25 30 32 50

12.0 11.5 6.6 6.2 6.6 10.8 11.0 10.1 9.1
50 29 14 15 25 29 32 50

11.0 10.9 9.9 6.3 6.1 6.5 9.1 10.3 10.4 8.7 8.4
50 31 25 14 15 23 27 30 34 50

13.6 13.4 12.8 10.5 10.2 10.0 10.5 12.4 14.3 13.9 11.7 12.2
50 31 22 16 13 16 22 27 31 36 50

Sta.	+	π	-	Elev.
		985.14		
59				
	+50			
	+93			
60	+10			
	+50			
	+79			
61				
	+50			
T.P.		4.61	985.28	4.47	980.67

Lt. ℄ Rt.

12.° 11.6 11.8 9.8 9.5 10.0 12.5 14.0 14.0 12.5 12.6
50 30 21 14 15 23 27 31 36 50

11.0 11.9 11.8 9.3 8.8 9.2 12.4 13.3 13.4 13.1
50 34 24 15 15 23 28 33 50

10.6 11.2 10.6 8.4 8.1 8.4 11.9 12.5 12.5
56 34 21 14 15 25 34 50

7.9 8.5 9.3 9.3 9.0 7.8 8.1 11.0 11.5 11.4
50 25 23 21 16 15 23 33 50

3.9 4.5 8.0 8.4 7.3 7.1 7.3 8.6 8.7 7.6 8.4
50 32 25 20 16 14 19 23 25 50

1.1 1.8 7.1 7.8 6.7 6.5 6.8 8.0 7.9 9.7 5.9
50 34 25 19 16 16 19 23 30 50

0.6 1.4 6.8 7.4 6.2 6.1 6.2 7.6 7.4 3.4 4.0
50 34 25 19 16 15 19 23 32 50

+2.1 +1.1 5.5 6.4 5.2 5.1 5.3 6.6 6.1 1.2 1.4
50 34 25 19 16 16 19 24 33 50

Sta.	+	H.I.	−	Elev.
		995.28		
62				
+50				
63				
+45				
+75				
64				
+50				

586E

Lt. ℄ Rt.

+1.4 +0.6 5.4 6.1 4.9 4.6 4.3 6.1 6.0 0.0 +0.3
50 34 25 19 16 15 19 24 34 50

1.2 1.2 5.5 6.0 4.8 4.3 4.7 6.0 5.5 1.5 1.6
50 34 24 19 16 16 19 24 33 50

3.3 3.6 5.9 5.9 4.8 4.3 4.6 6.1 6.0 3.5 3.5
50 29 24 20 16 16 19 23 30 50

5.6 5.0 5.4 6.1 6.1 4.9 4.5 4.8 6.0 6.2 5.5 5.4
50 31 25 23 19 16 16 19 23 26 50

8.0 7.7 5.1 4.6 4.9 7.0 6.8 6.6
50 23 17 15 21 29 50

8.5 8.4 4.9 4.6 5.1 7.6 7.3
50 26 16 16 23 50

9.5 9.2 5.4 4.3 5.4 8.4 7.9
50 28 16 16 25 50

Calc.
℄
9.05
29.5

Sta.	+	π	−	Elev.
		985.28		
69	+65			
	+85			
65				
	+25			
	+60			
	+64			
	+72			
	+77			

Lt ℄ Rt

Culv

9.2
25

8.9 9.1 5.4 4.9 5.5 8.3 7.8 6.9
5.0 2.6 1.5 1.6 2.5 3.7 5.0

7.4 7.8 8.1 5.9 4.9 5.5 7.3 7.1 6.4
5.0 3.7 2.9 1.5 1.6 2.4 3.6 5.0

5.3 5.8 7.2 7.1 5.6 4.9 5.3 6.7 6.7 6.1 5.6 4.7
5.0 2.6 2.9 2.1 1.7 1.5 1.9 2.3 2.5 3.6 5.0

4.6 5.1 7.0 6.9 5.6 5.0 5.5 6.8 6.6 6.8 6.3
5.0 2.8 2.4 2.0 1.6 1.4 1.9 2.2 2.9 5.0

7.1 7.1 6.9 5.7 5.0 5.3 6.7 6.8 6.7
5.0 2.8 1.9 1.6 1.7 2.1 3.4 5.0

6.9 6.6 5.5 5.0 5.4 6.4 6.9
5.0 2.9 1.9 2.4 3.0 5.0

5.4 5.3 5.1 5.1 5.0
5.0 2.1 2.8 5.0

Sta	+	℄	−	Elev.	
		985.28			
65	+93.33				
66			5.2		
	+18		5.6		
	+42		6.8		
	+50		7.2		
67			9.2		
	+50		11.4		
68			13.8		(980.58)
B.M.			4.71	980.57	

12-10-41

Lt.	R.	Ft.
47 50	5.2	4.8 50

Spk. in P.P. S.W. Cor. Victoria HGo. Bg. F"

Sta.	+	IT	−	Elev.