

Book 86 Dr 16

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

PLAN

Survey

HAMLIN AVE

From Larpenleur To S.T.H. #51

Road Acc't. No. 9

Date Filed 1-30-43

File



Alignment

Hambic Ave

Sta.	Point	ΔL	ΔR
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52 +62.87		0°32'	
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29 +74.57	P.O.T.		
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26 +44.60	P.O.T.		
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13 +09.5 ^u			
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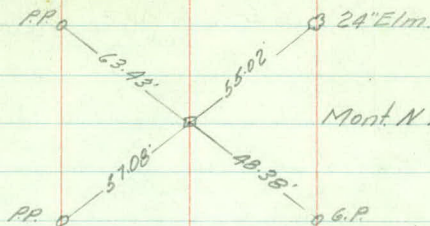
13 +22.27	P.O.T.	& Garden Ave.	
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0 +00	- & Larpenteur Ave.		
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Strong Wind + 60°

10-7-41
K.A.
L.C.
M.B.
C.F.

R Co. Rd B"



Mont. N 1/4 Cor Sec. 15

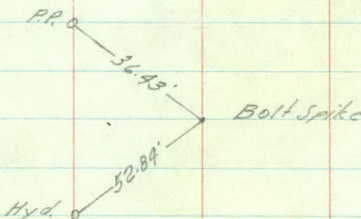
R Droper Ave.

Spike + DISC



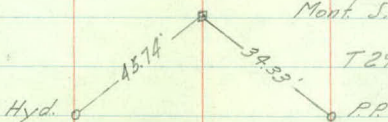
R Roselawn Ave.

Mont. Ctr. Sec. 15



Mont. S. 1/4 Cor Sec. 15

T29N R22W



Sta.	Point	ΔL_t	ΔR_t
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105 + 37.35	P.O.T.		
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104 + 30.15	P.O.T.	E. Spur Track.	
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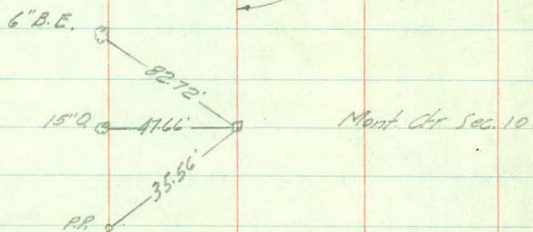
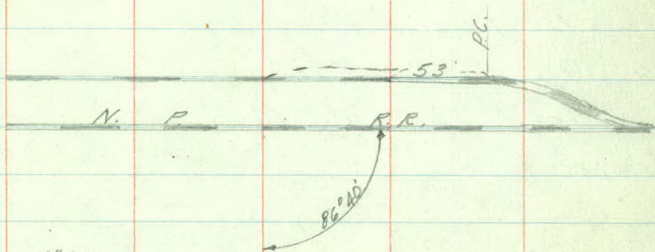
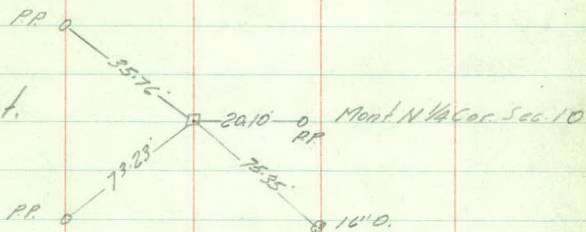
104 + 16.20	P.O.T.	E. Main Track	
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78 + 97.13	P.O.T.		
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66 + 92.22	P.O.T.		
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10-8-41

E. Co. Rd. "C" West.

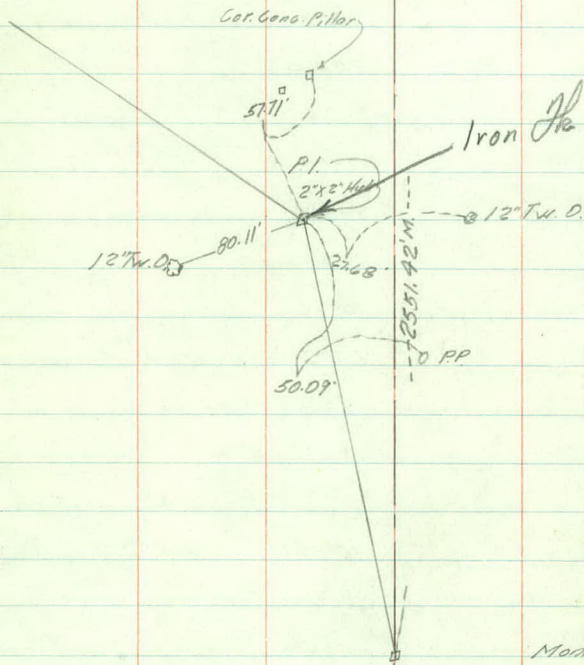


E.S.T.H. 36

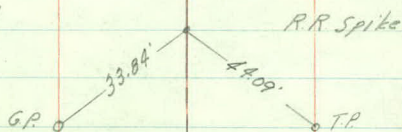
Sta	Point	ΔL	ΔR
+67.10		22°05'	
+50		21°13.7'	
154		18°43.7'	
+50		16°13.7'	$\Delta-44^{\circ}10'$
153		13°43.7'	$D-10^{\circ}-$
152 +58.19	P.I.		$T-232.76'$
+50		11°13.7'	$L-441.67'$
152		8°43.7'	$R-573.69'$
+50		6°13.7'	
151		3°43.7'	
+50		1°13.7'	
150 +25.43	P.C.	0°00'	
131 +56.20	P.I.		
112 +78.49	P.O.T.		

10-9-11

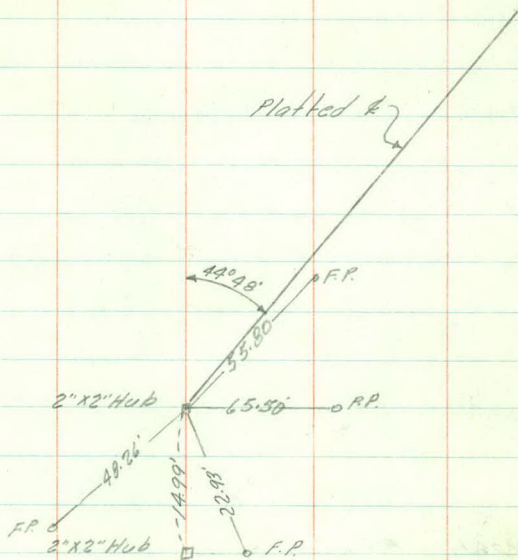
Mont. $\square$ M.C.



E. Co. Rd. 'C' East



Sta	Point	ΔL	ΔR
			25531
16228	P.T.		21°49.5'
+50			21°06.1'
167			19°58.5'
+50			18°51'
166			17°43.5'
+50			16°36'
165			15°28.5'
+50			14°21' $\Delta 43°39'$
164			13°13.5' $D-4°30'$
+50			12°06'
163	+22.22 P.H.		T-509.94'
163			10°58.5' $L-970.00'$
+50			9°51' $R+273.57'$
162			8°43.5'
+50			7°36'
161			6°28.5'
+50			5°21'
160			4°13.5'
+50			3°06'
159			1°58.5'
+50			0°51'
158	+12.28 P.C.		0°00'



Sta.	Point	$\Delta Lt.$	$\Delta Rt.$
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(7 + 75.53) = 1941 Plan Survey Sta.
 171 + 51.53 = P.I.

3° 01'

+06.1 P.T.

24° 36'

170

23° 56'

+75

21° 11'

+50

18° 26' Δ -49° 12'

+25

15° 41' D-22° -

+02.43 P.I.

T-119.97'

169 +02.43

12° 56' L-223.64'

+75

10° 11' R-262.04'

+50

7° 26'

+25

4° 41'

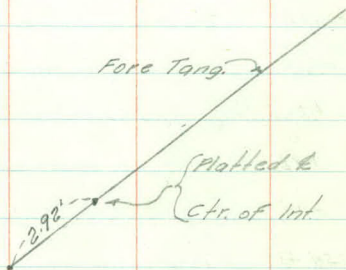
168

1° 56'

167 + 82.46 P.C.

0° 00'

Note: Align from sta. 171+51.53 to sta. 218+66.50
is copied from 4-2-41 Plan Survey so as to
make continuous stationing.



Sta	Point	ΔL	ΔR
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218	+66.55 P.I.		0°09'
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192	+32.30 P.O.T		
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1437.36	P.T.		
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+25			
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180	+35		
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+75			
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		Δ -51°01'	
--	--	------------------	--

+50			
-----	--	--	--

		D -22°-	
--	--	-----------	--

+30.40	P.I.		
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		T -129.98'	
--	--	--------------	--

+25			
-----	--	--	--

		L -231.89'	
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179	+25		
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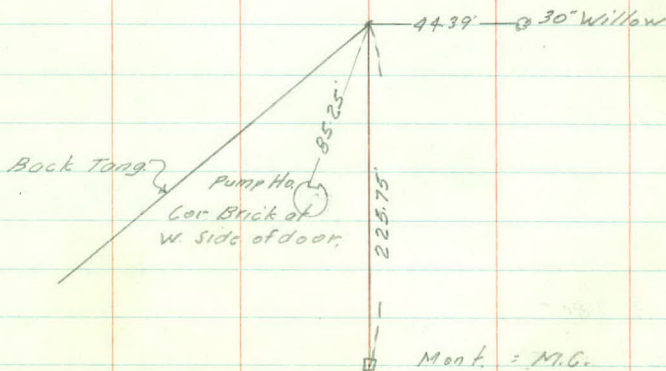
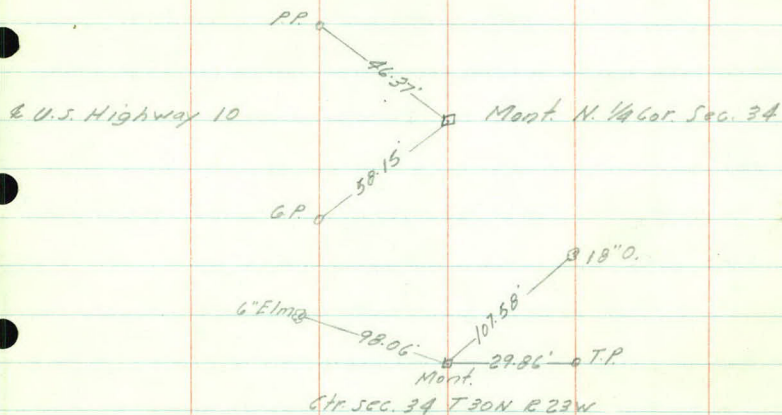
		R -262.04'	
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+75			
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+50			
-----	--	--	--

+25			
-----	--	--	--

178	+05.47 P.G.		
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Sta. Point ΔL_t ΔR_t

324 +11.57

315 +87.15' P.O.T.

297 +82.27 P.O.T.

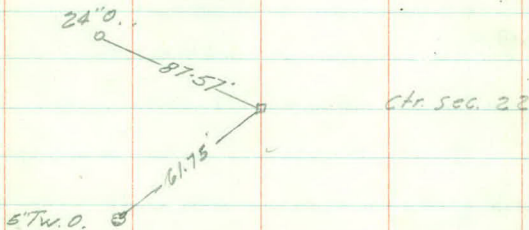
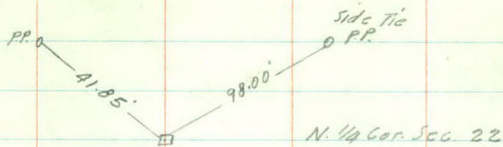
271 +41.18 P.I. $0^{\circ}03'$

245 +05.89 P.O.T.

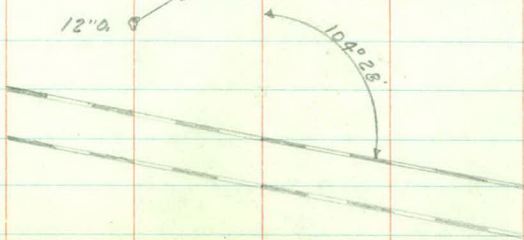
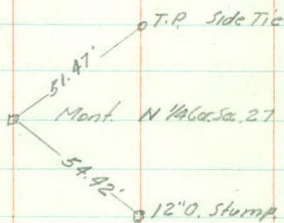
228 +96.83 P.O.T.
228 +31.25 P.O.T. } $\frac{1}{2}$ Track

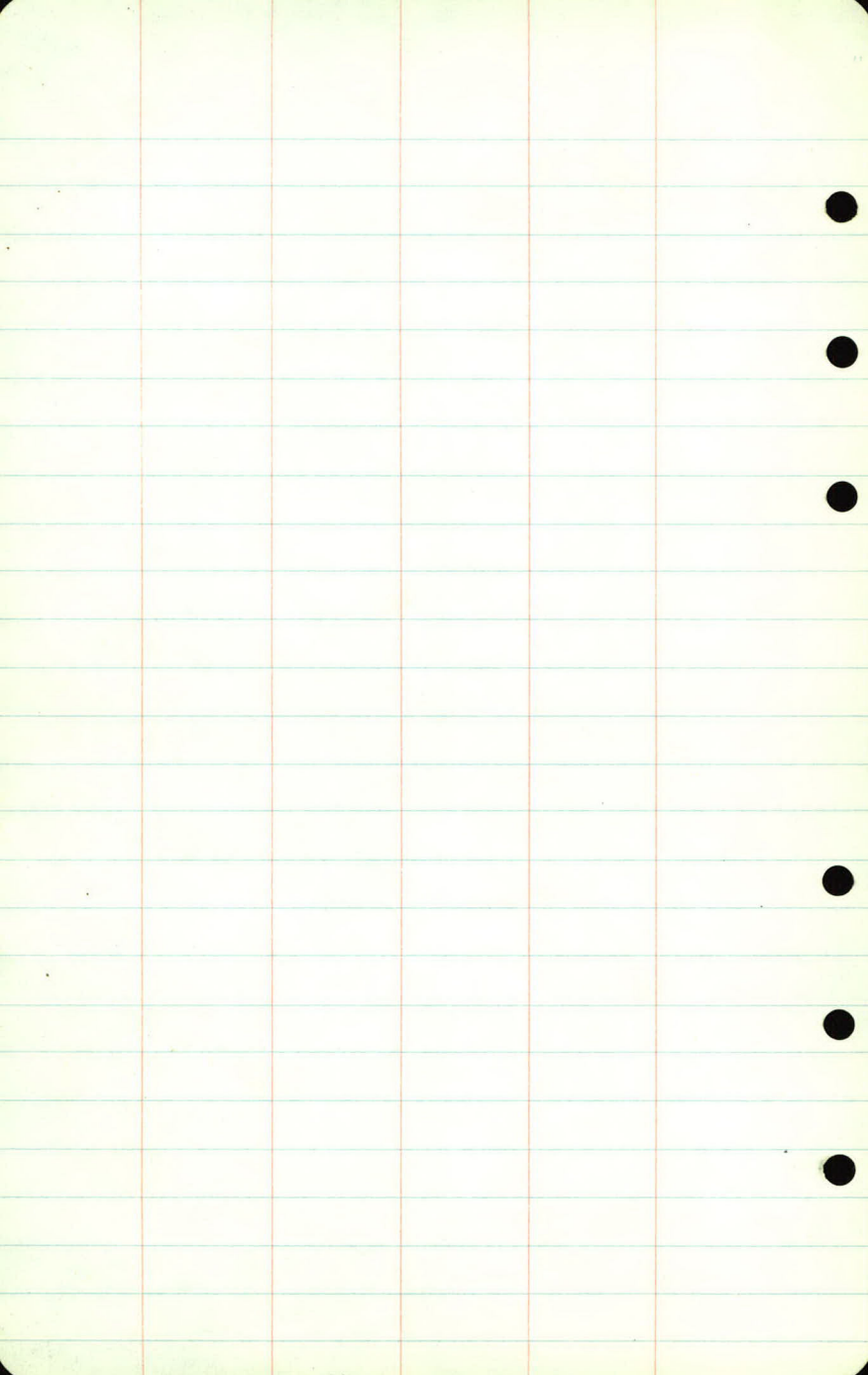
10-16-91

E.S.T.H. 96



E. Co. Rd. F.





Topography
Hamline Ave

+76-10" Pine - 30' +86-69 Pine - 50'
+70 Hedge - 91'
+63 - Ent.

+42-4' 4' Conc. Walk - 18.7'

+40-End Hedge

+ Cor. Hedge 7

+85-Masonry Wall - 43

5 15' 10'

+98-2 Ent.

2 1/4" Walk - 42.6'

+79-2 1/8" Walk - 20.2'

+57-PP-22 Hedge - 45'

+50-Ent.

+39-6" Elm - 31'

2 Masonry Wall - 42.4'

+16-4 Rubble Walk - 30'

+05-6" Elm - 32'

+31-10" Pop - 32'

~~+31-10" Pop - 32'~~

4 12' 9'

+92-Hedge - 40'

+86-Ent.

2 1/4" Conc. Walk - 42.8'

+67-4 Rubble Walk - 17.5'

+12-8" Elm - 46'

2 1/8" Rubble Walk - 16.1'

3 13' 9'

2 1/4" Conc. Walk - 42.3'

+86-8" Elm - 46'

+73-Hedge - 42'

+07-10" Cedar - 31'

+36-Ent.

2 13' 8'

+45-3" BE - 41'

+26-8" Cedar - 30'

+08-End 1 2" C.M. - 22'

+95-12" Elm - 37'

+71-Ent.

+56-Ent 1 2" C.M. Cyl. - 22'

+55-10" Cedar - 30'

+29-8" Two Cedar - 36'

+25-8" Cedar - 29'

+17-6" Cedar - 45'

+15-12" Cedar - 29'

8 Cedar - 36'

+90 Cedar 35' +95-8" Cedar - 28'

+80-8" Cedar - 45' +86 Light P. 33'

+75-Edge Ent.

+90-Frip Cedar - 45'

+40-18' 8'

+36-8 Drain 24" - 38'

+25-Ent. 24" C.M. - 63'

+
0+100

10-8-91

20' P.W.

+87-X Drain, 18 x 40 Conc. 21' 19' 190-FC-34' 194-GP-36'
 +52-G.P.-28' 181-Hd. 11' 9'
 +77-Gate Valve-21' Hyd-27'

12 116-Ent. 11' 8'

+52-Ent.

11 11' 8'

10 11' 8'

+81-4' Conc. Drive & Conc. Walk-42.7'

+81-2' Conc. Drive-42.7'

+18-FC-43' (Top-35')

+4-Conc. Steps Bottom-40' 15' 55-6-M

+56-N.Y.H.-18'

+56-Ent 15' C.M.-38'

+25-Edge Ent. } double

+25-Edge Ent. }

9 12' 10'

2'4' Conc. Steps (Top-52' Bottom-42')

+80-2' 18' Walk-17.6'

+52-PP-26'

+44-Ent.

+40-Cor. Mason. Wall-42'

+47-Ent FC-24'

8 +15-2' 4' Walk 11' 10'

FC-24'

+71-Bdg. Masonry Wall-42.4'

+71-Hedge-45'

+70-2' 2' 12' Pillar-44.6'

+57-2' 2' 12' Pillar-44.6'

+45-4.5' Conc. Walk-43.6'

+19-Ent.

7 Wood Cover) 12' 10'

+68-M.H.-18' 12' 10' 12' 10' 12' 10'

+120-Bdg FC-25'

Ent 12' C.M.-23'

+96-Hedge & 2' 12' Pillar 94'

+76-2' 4' Conc. Walk-17.9'

+46-5' Pile-47'

+34-5' Pile-47'

+34-Hedge-40'

+20-2' 4' Conc. Walk-17.7'

+68-6' Pile-50'

6 13' 9'

10-9-41

Unsuit

Unsuit

• 166-Ent-12"X20"CM-22'

19 104-PP-28'

12' 8" End Row Elm-40'

+82-
+62-
+42-
+22-
+85 Reg Row 4" Elm-40

18

13' 7'

+76-PP-27'

• 190-Ent-12"X20"CM-23'
+78-FC-31'
+75-8" Elm-40'
+69-End Trees-35'

17

13' 8'

+51-PP-27'

+86-Reg Row Elm-36'
• 170-Ent-12"X20"CM-26'
+67-Range 17c to ent.

16

13' 8'

15 110-PP-27'

13' 7' +89-FC-32'
chick yard
+90-FC-31'

14

13' 8'

+82-PP-28'

+60-Ent 11'

+68-Ent-8'

+47-PP-27'

• +40-Ent 15"CM-22'

+33-Ent 35'

38

+44-Ent 15"CM-24'

13

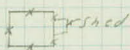
• Ent 15"CM-21.5'

+10-Ent-35'

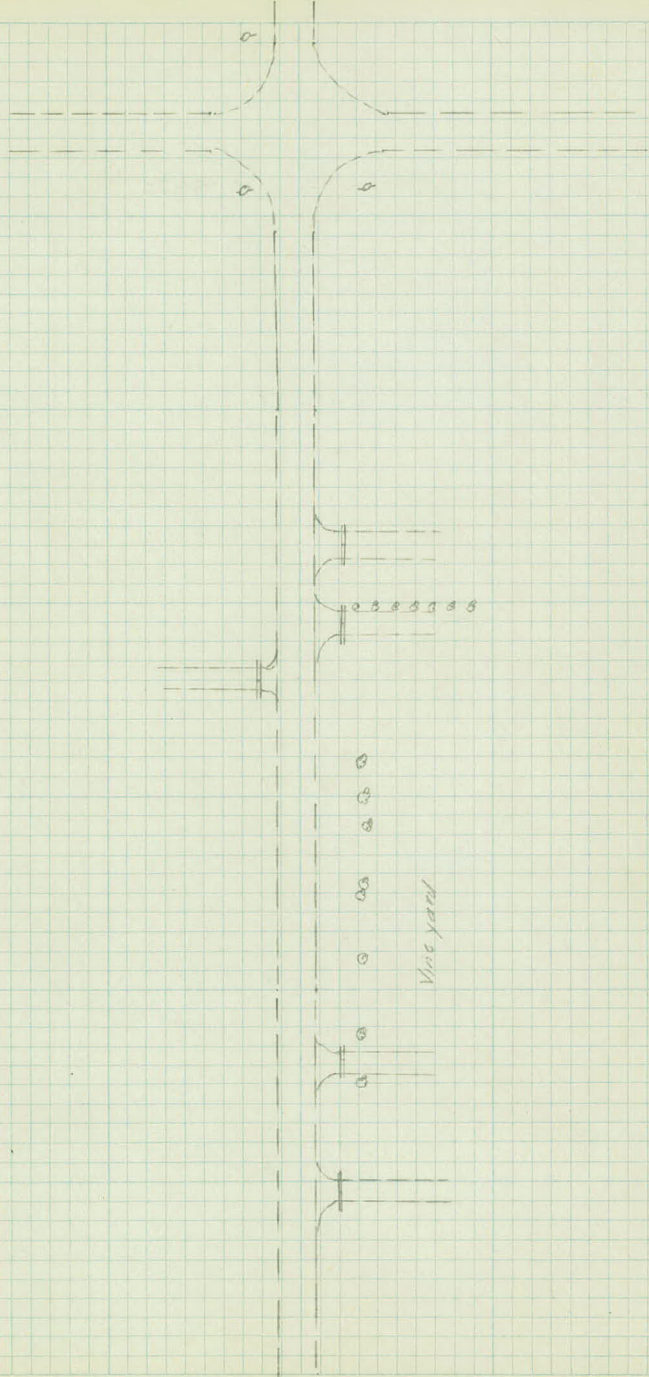
39'

Ent 15"CM-24'

+81.5' Pins - 27'
+80.3' Pins - 35'
+83.5' Pins - 33'



	+92-PP-28'	100-Row 13'	7'
		+54-Row 46'	46'
		+30-Row 46'	43'
26	+15-PP-29'		+110-PP-35'
		+92-Row 12'	8'
25	+15-PP-29'	11'	8'
		13'	+92-Row 8'
			+30-Ent-12"X20'C.M-22'
24	+95-PP-29'	11'	9'
			+98-Row 15"PP-30'
	+60-Ent-15"X20'C.M-21'		+87-Ent-12"X20'C.M-22'
23		12'	+18-24'B.E-32'
		9'	36"B.E-34'
	+57-PP-29'		+84-6"Tw.B.E-35'
			+56-10"B.E-33'
			+51-10"B.E-34'
22			+110-12"B.E-32' ✓
			+110-Cherry Tree-32' ✓
	+99-PP-28'		+101-Ent-12"X22'C.M-22' ✓
			+51-Cherry Tree-32' ✓
21		12'	8'
			+195-Ent-12"X20'C.M-20' ✓
	+25-PP-29'		
20		12'	8'



* 186-Ent 15" x 20" C.M. 165' ✓

179-# 18" Cor. Wood 16-29.2' ✓

33
179-PR-28

170-Ent

11'

* 121-Ent 15" C.M. 17' ✓

111-Ent 25' ✓

* 33+01.00 E Ryan Ave

191-Ent 20' ✓

* 180-Ent 15" C.M. 16' ✓

* 170-Cor. Hedge 34' ✓

171-4" Elm 38' ✓

32

11'

* 103-Ent Fc & Cor. Hedge 34' ✓

9'

120-PR-28

* 88-3" Elm 32' ✓

* 65-4" Elm 32' ✓

* 39-Cor. Wood Fc 34' ✓

31

11'

9'

30

12'

8'

176-PR-28

* 179 E Draper Ave
RD-22 Top ✓

29

12'

8'

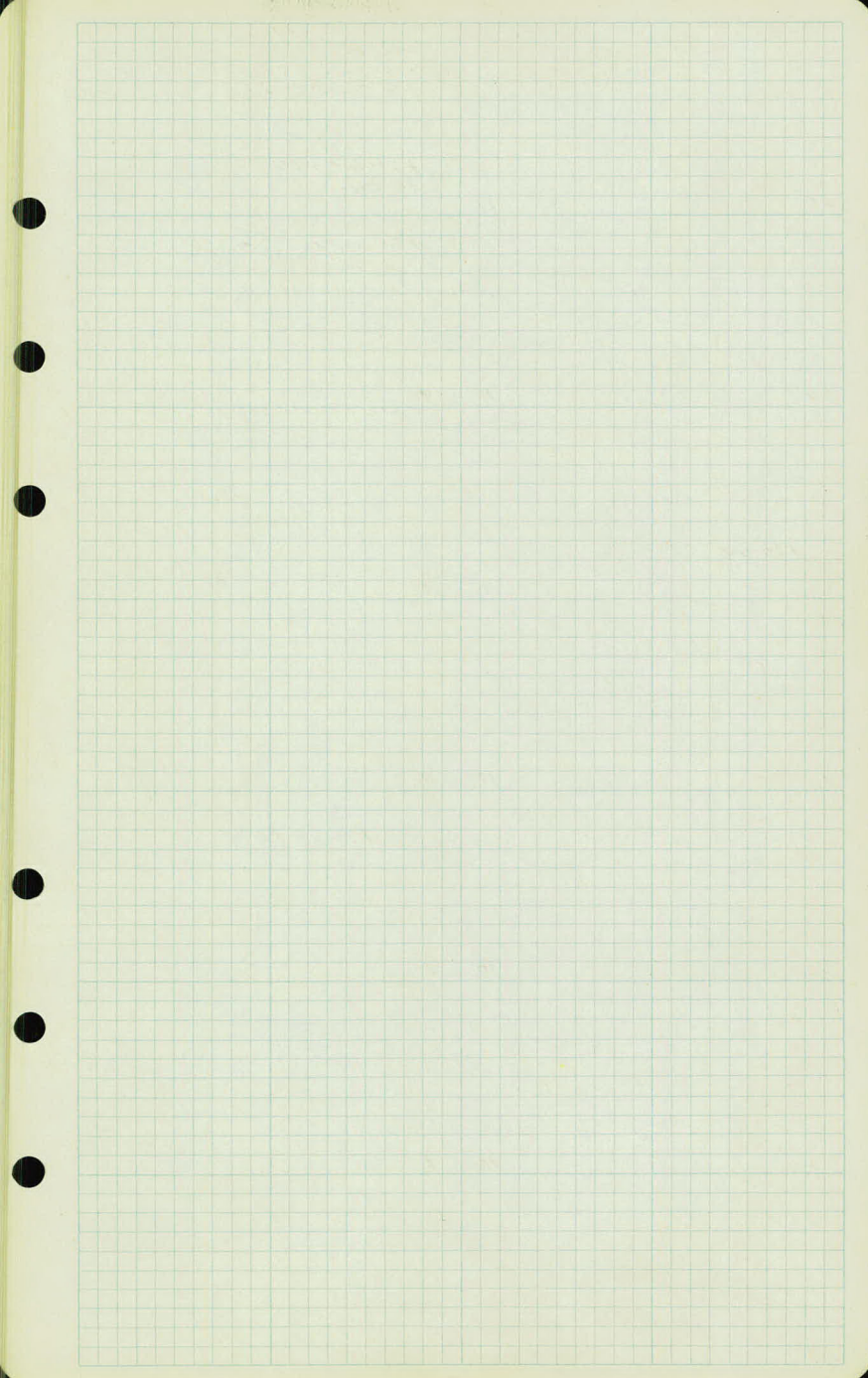
125-PR-28

28

13'

8'

27



191-PP-28

193-Shrub-37'
185-Ent.
175-24" E-37'
168-12" BE-37'
155-12" O-28'

143-30" BE-37'
129-18" O-24'
111-Ent.

40

12' 10'

186-12" O-28'

✓ 199-2.4' wide Hedge-30'
192-Cor Elm-42'
121-20" Elm
134-Ent 1-12" X 20" Vlt-19'
117-PA-28'
102-24" Elm-

39

11' 10'

182-24" Elm-
160-8" Elm-
158-2" Ent-17'
154-Ent 12" Vlt-19'
135-10" Elm
124-Ent 12" C.M.-18'
109-200' Cove Elm-43'

38

10' 10'

181-Fo. Cor-31'
142-PP-28'

37 ~~16-30~~

11' 11'

182-Ent. ✓
171-4" Elm-38' ✓

36

9' 9'

✓ 198-PP-28'
✓ 198-X Drain 24" X 40" C.M. 20' 20'
169-Fo. Cor-20'

35

11' 9'

15" X 20" C.M.-17' ✓
155-4' 9" Conc. Drive-23.4'
135-G.P.-22'

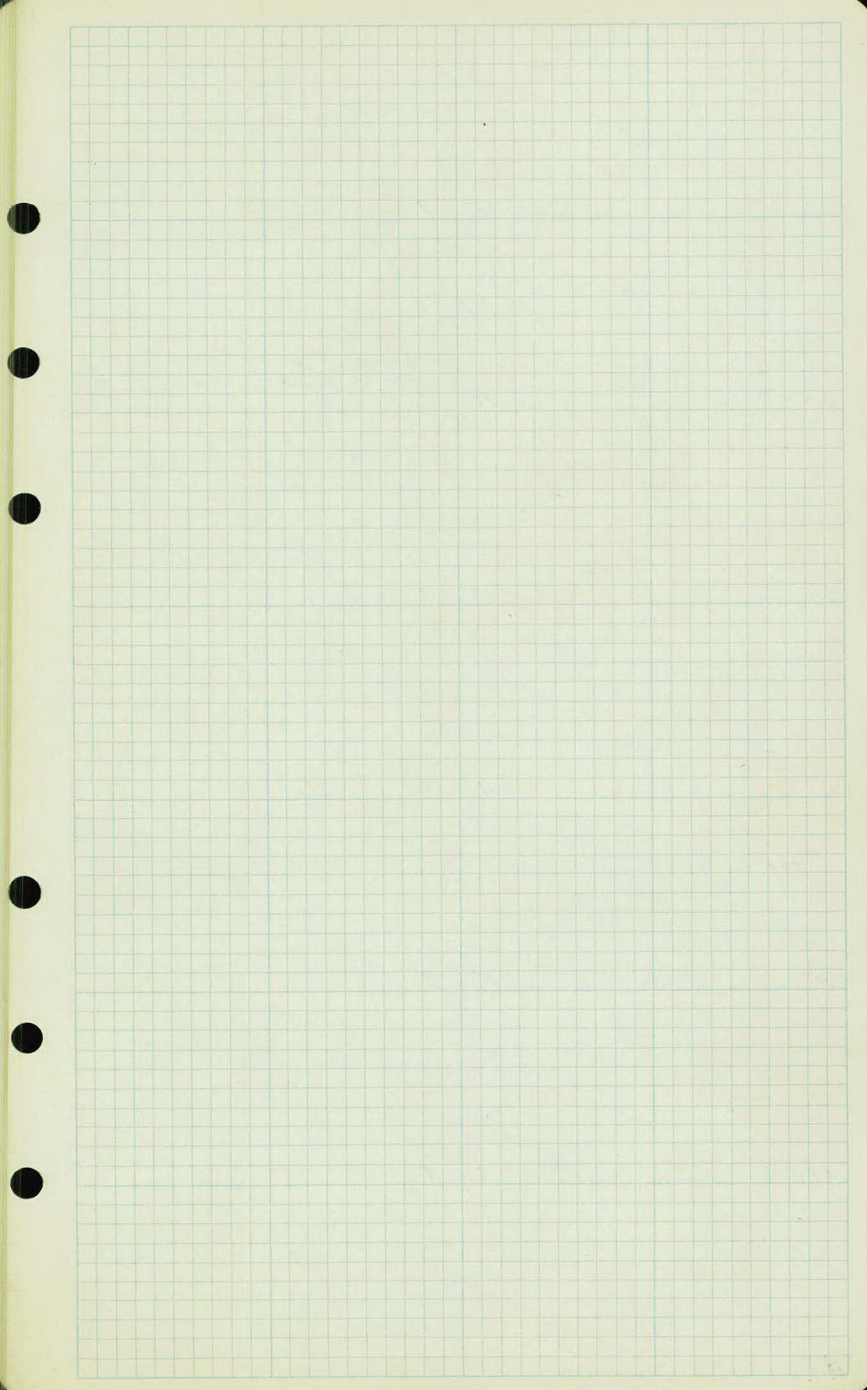
151-Ent-15" X 20" C.M.-28'
138-PP-28'

34

11' 10'



- 47
- 13' 8'
- f70-Fe Cor-34'
- f51-Ent. 15" X 20" C.M. - 15'
- 46
- 13' 9'
- f72-Ent. - 15" X 20" C.M. - 14'
- f62-End H.W.B.C. - 34'
- f38-Cor H.W.B.C. - 34'
- f30-Ent. 18" C.M. - 14'
- f16-L 16' Rd.
- f94-End 12" C.M. - 14.5'
- f93-PR-29'
- f60-Ent.
- 45
- 12' 9'
- 44
- 13' 9'
- H.S. PR-28'
- f68-L 9' Cms. Steps - 21'-28.5'
- H.W. - 3.5' X 0.65'
- f98-End Cove. Co. N. - 21'
- 43
- 14' 9'
- f09-Ent.
- f05-L 4' Conc Walk - 36'
- f96-Ent 12" Conc Gun - 21' +
H.W. = 3.5' X 0.65'
- f60-Ent. 18" X 10" Conc. 20.5'
3.5' X 0.65' H.W. on each end.
- f50-PR-28'
- 42
- 12' 9'
- f65-End 6" Tile - 38' 2.5' X 0.9' H.W.
- f56-X Driv. 15" X 3.5' C.M.
- 18' 11'
- 41
- 12' 9'



+69-PP-28'

54

14' 9'

+93-Row B.E-32'
+30-Edge Ent.

+19-PP-28'

53

14'

+25-Row-13'
+03-28" Elm-39' - 24" Elm-58'

+74-Row-46'

+77-Row-50'

+52-Row-42'

+52-Row-46'
+39-PP-42'

+12-PP-28'

+25-Row-12'

+20-Row-12'
+08-Ent-31'

52

12'

9'

+60-Ent-31'

+43-Ent-15'

51

11'

9'

+77-Ent.
+65-PP-28'

+60-Fc Cor-32' +
+39-Range Fix

50

11'

8'

+36-PP-28'

+96-Ent.
+36-Fc Cor-34'
+35-PP-31'

49

12'

9'

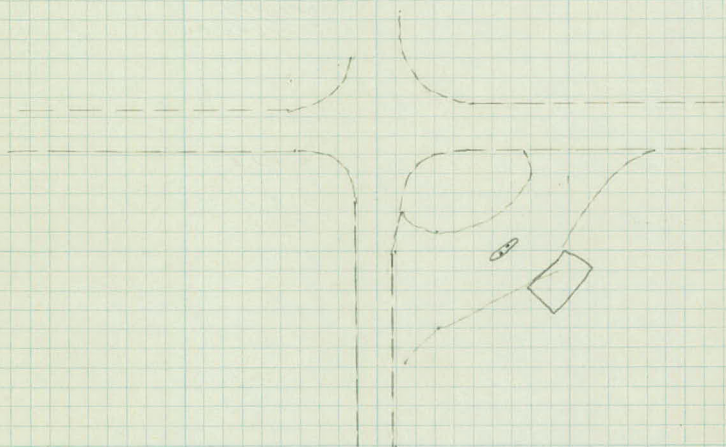
+03-Fc Cor-34'

+35-Ent-12' X 28' MT-19'

48

12'

9'



+95-PP-28'

+33-3"Pop-37'

+14-Ent-12"X 22'CM-20'

61

11' 9'

+27-2"Pop-40'

+62-Ent

+51-PP-28'

+42-10"Redwood-36'

60

11' 9'

+65-Ent-15'CM-18'

+59-Ent

+45-Ent

+25-Ent-15'CM-19'

+38-Hedge-51'

+20-Hedge-34'

+47-S.E. Cor. Ho-50'

+36-PP-28'

59

+11-Ent

11' 10'

+91-Hedge-34'

+79-Hedge-34'

+55-Redwood-34'

+20-3"Pop-35'

+13-2"Pop-35'

+80-3"Pop-35'

Sub b/c Surface

+72-Ent-12"X 20'CM-17'

58

11' 10'

+62-4"Pop-35'

+28-3"Pop-35'

+22-4"Pop-35'

+65-PP-28'

+70-3"Pop-35'

+71-2"Pop-35'

+52-3"Elim-41'

+25-3"Elim-41'

57

11' 11'

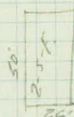
56

+07-PP-28'

13' 10'

55

13' 9'



5

+84-Fc. Cor-39'

+70-PP-27

68

12' 10'

+64-PP-27'

+55-Beg. Fc. 23'

+50-- 13' 12'

67

Rad. 55 50'

+64-Rad-55' 50'

+18-PP-27' +20-Rad-11' 13'

66

10' 12'

+80-Fc.-35'

+60-Ent. 15'x40' C.M.-23'

+97-Hedge-29'

65

11' 10'

+72 x 0 min - 12' x 36' C.M. 19' 17'

+47-PP-28'

+99-PP-27'

+100-Hedge-28'

+30-Ent-15'x20' C.M.-23'

+05-Road 112' to ditab

64

10' 10'

+99-Beg. 1' Bottom ditab - 30'

+32-PP-27'

+57-Ent.

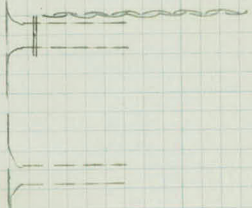
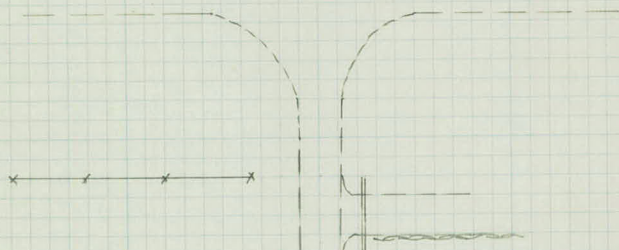
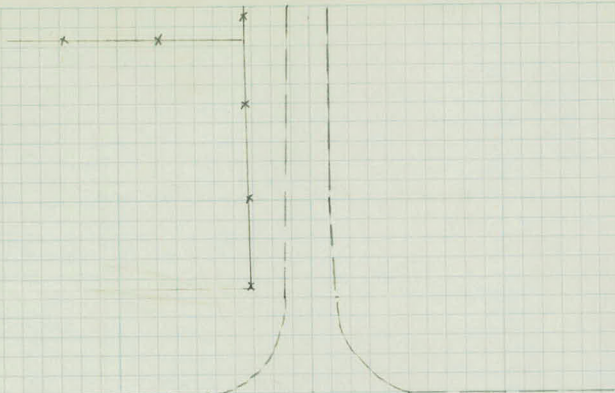
63

12' 9'

+98-Road 3" Tiles - 28'

62

12' 9'



Hand-drawn symbols or marks at the bottom right of the page, possibly representing a signature or a set of small circles.

+85 Cor. Woods 45'

75 Fc-33'

14' 8" +08 Ent. Woods-50'

+89-PP-28'

74 Fc-33'

13' 9" Woods-46'

+62-PP-28'

73 Fc-33'

11' 10" Woods-38'

+29-PP-27'

72 Fc-32'

11' 10" Woods-39'

71 Fc-32'

+98-PP-27'

12' 10"

+70-Cor Woods-29'

70 Fc-33'

12' 9"

+91-PP-27'

69

11' 10"

10-9-41

+ 92 ENT.
 + 72 8" P.O.P. 39'
 + 66 P.P. 28'
 + 37 6" P.O.P. 32'
 + 06 End Woods 29'

82

12'

10'

+ 87 ENT.
 + 47 S.W. Cor. House 67'
 + 29 6" E/M 44'
 + 15 ENT.
 + 03 8" E/M 44'

+ 57 ENT.

+ 37 P.P. 28'

+ 80 8" E/M 45'
 + 52 6" E/M 45'
 + 49 4" P.M.T. 38'
 + 40 6" Dinet. 48'

81 Woods 29'

12'

9'

+ 56 ENT.

+ 37 End F.C. 48'

+ 06 P.P. 28'

80 Woods 29'

13'

9'

+ 40 X draw 18" X 60 C.M. 30' 30'

+ 04 P.C. Cor. 50'

79

13'

9'

+ 97 Cor Woods
 + 97 F.C. Cor. 35'
 + 15 P.P. 28'

+ 92 5" B.E. 38'

+ 05 ENT

78

F.C. 33'

12'

8'

+ 47 P.P. 28'

77

F.C. 33'

13'

8'

+ 14 P.P. 28'

76

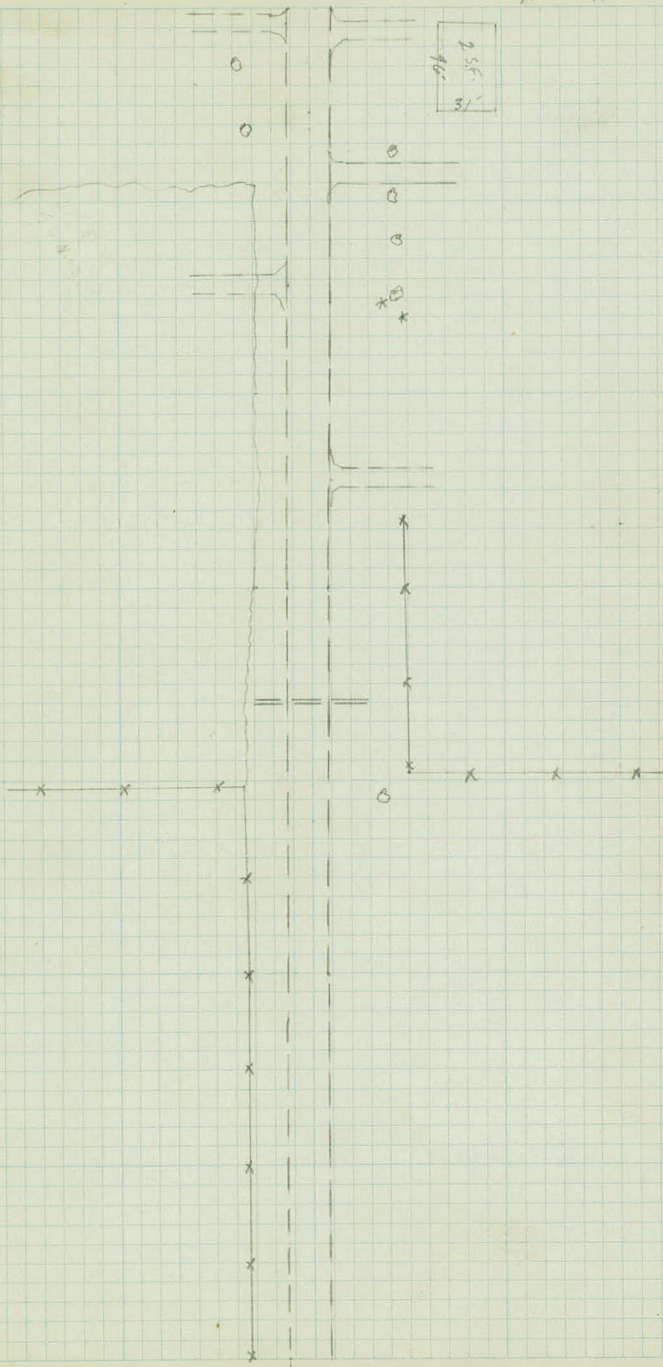
F.C. 33'

13'

8'

10-10-41

2 S.F.
46
31'



141-PP-28

89

10' 11'

+74 Ent.

88

+98-PP-28

11' 10'

+26-15' O.-27-36'

+13-18' O.-37'

+98 Ent.

+19-Shrub-36' +82-Shrub-38'

+66-12' O.-34'

+44-12' Ash-36'

+05 Shrub 30'

+02 Shrub 39'

87

11' 11'

+75-12" Elm 34'

+63 PP-28'

+52-8" Elm 34'

+36-6" Elm 33'

+16-6" Elm 33'

+98-Shrub 31'

+75-Shrub 39'

+83-Ent.

+74 Shrub 40'

+70 Shrub 32'

+65 Shrub 40'

+62 Shrub 32'

86

11' 10'

+96 Ent. 12" x 24' C.M.-20'

+66-10' Apple Tr 55'

+57 End Pg. 21'

+27 PP-28'

+97 Ent.

85

11' 11'

84

12' 11'

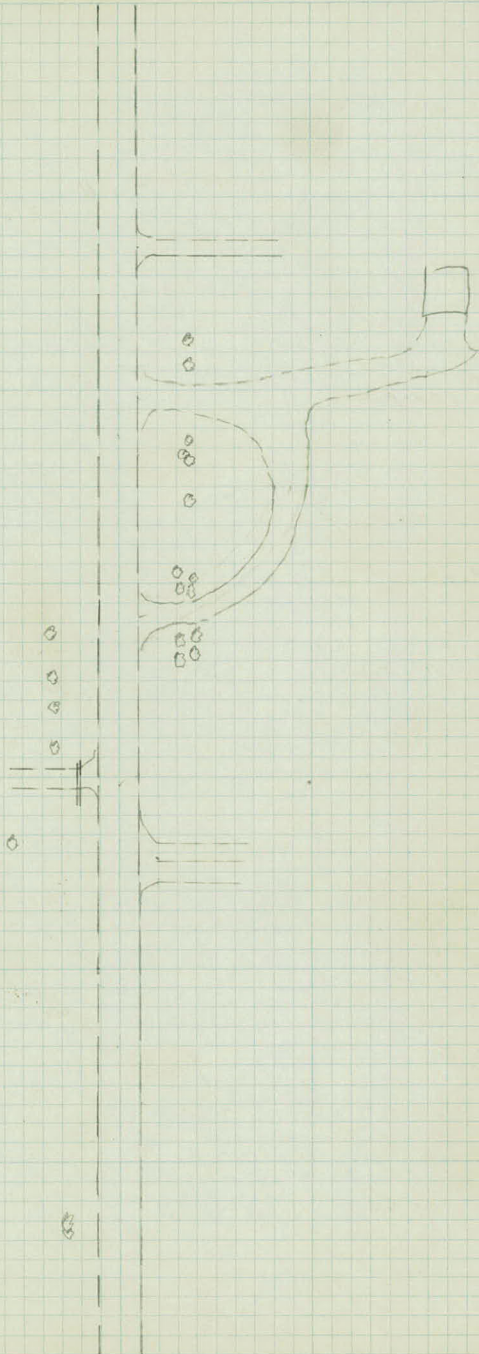
+98 PP-28'

+70-8" App 27'

+67-8" App 26'

83

12' 11'



+29-PP-28'

96

10' 11'

95

+91-PP-27'

11' 10'

+43-Ent

94

11' 11'

+51-PP-28'

93

10' 11'

+40 Power Line 15 ft

+10-PP-28'

92

Breather Pipe - 29'

10' 11'

+17-6P-28'

+93-Breather Pipe - 238

+
+93-Breather Pipe - 31
+54-Ent.
+40-Ent. Cult.

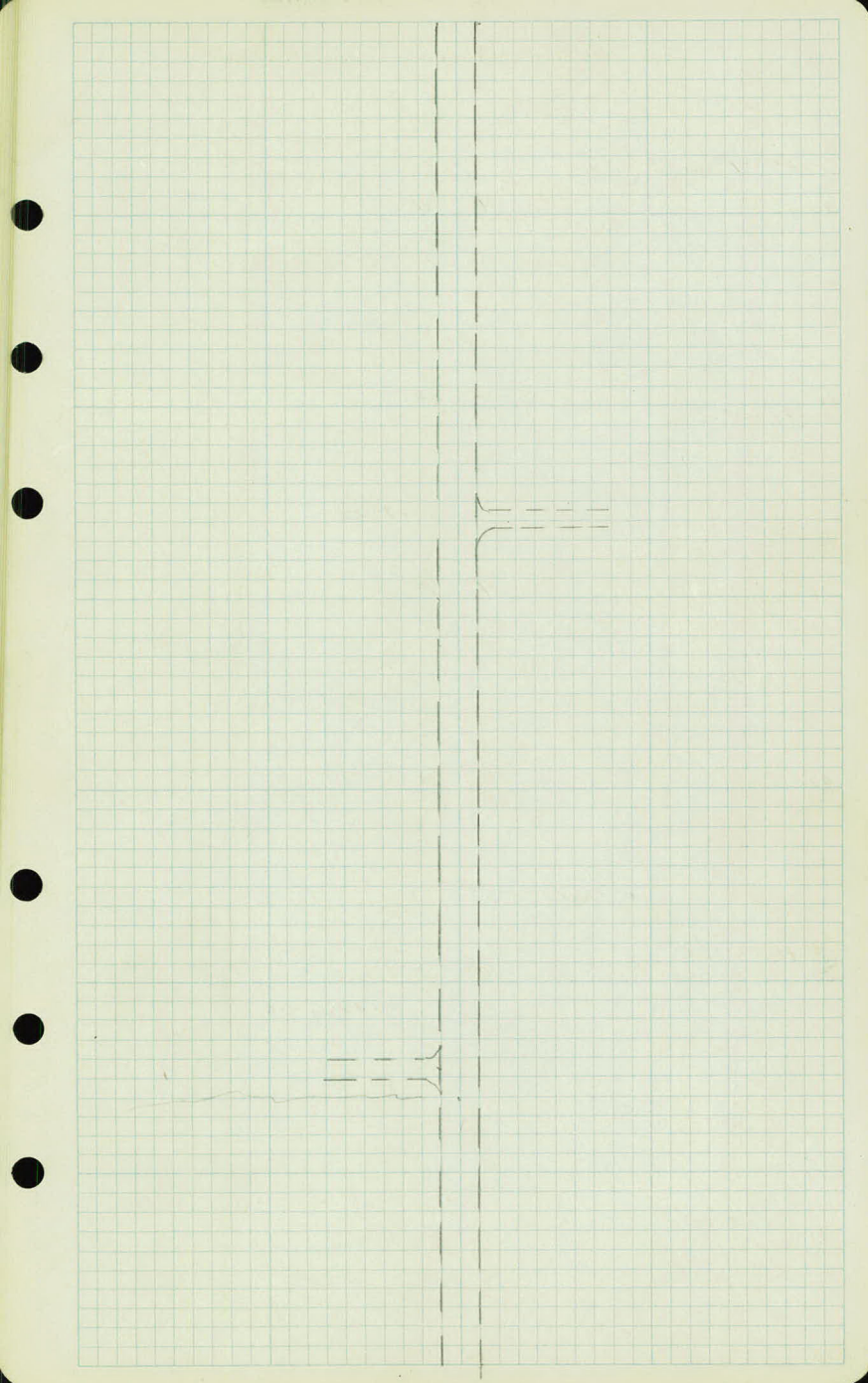
91

10' 10'

+70-PP-28'

90

10' 10'



+69-PP-25'
 +65-24"O-18'
 +62-20"O-35'
 +53-18"O-36'
 +40-Edge-Ent
 +15-Edge-Ent
 +55-Range Tie ?
 +10-Hedge-21'-40'

166-FC Cor-25'

103 7' 15' FE-25
 +87-8"O-29' +98-24"O-29' 12' 22' +92-XDRAIN 10"X34"CM
 +78-15"O-19' +83-PP-25'
 Boiler COIL Under Steps + Tank Steps 15.3
 +58-E 8' Conc. Walk-11.8'
 +49-15"O-24'
 +24"O-19'

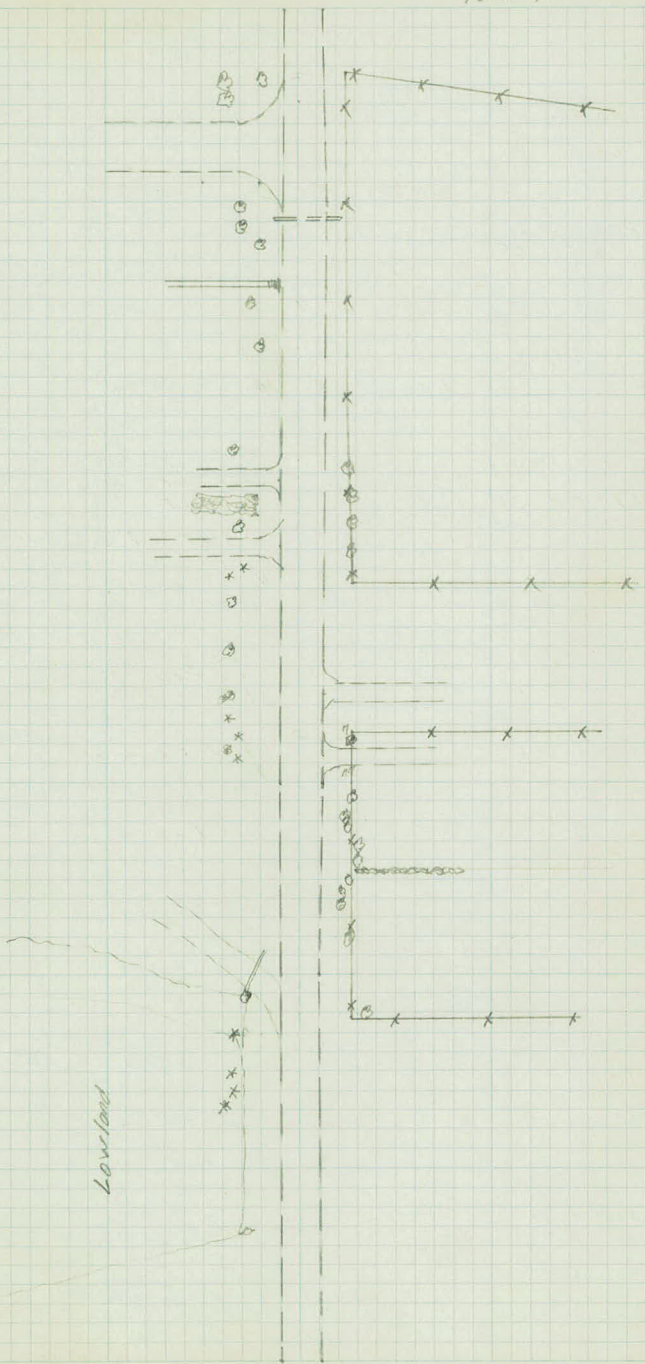
102 8' 14' FE-25
 +56-Ent +72-24"O-31'
 +45-PP-26'
 +49 } Cor Lill 1065-21'
 +39 }
 +32-Pine-30'
 +23-Ent
 +14-Pine-30'-33'
 +10-Pine-28'
 +04-Pine-35'
 101 9' 13'
 +61-24"BE-27'
 +48-12"BE-28'
 +34-15"BE-28'
 +20-12"BE-29'
 +01-Cor Low 18"BE-29' +FE Cor

100
 +99-3" Ash-33'
 +69-4" Tree-39'
 +44-2" Ash-34'
 +33-Pine-36'
 +26-Pine-30'
 +16-6" Mt Ash-36'
 +12-Pine-31'
 +10-PP-27'
 10' 12'
 +46-Ent
 +28-Stamp-24'
 +26-FC Cor Wood-28'
 +21-12" Willow-29'
 +14-Ent
 +06-2 Stamp-25'
 +98-Ent 15" X206-M-13'
 +98-24"O-29'
 +70-Pine-33'
 +58-Pine-33'
 +49-Pine-36'
 +48-Pine-33'
 +31-Pine-38'
 +11-Ent 15" M-18.5'
 +15" X206-M
 99 10' 10'
 +94-Ent 15" O-M-29'
 +93-PP-28' +Low land
 +77-4" Plum-36'
 +77-Cor Wood FC-27'

98 9' 11'
 +70-Range Tie ?
 +66-PP-28' +Low land

97 10' 11'

10-10-41



Lowland

184-6 Elm-39'

+91-T.P-21"

425-6 Elm-40

196-6 "Elm 91"

734. Strong-40

8' 14' $+ 03-10^{\circ} E / m-41'$

472-70" Elm - 42

435-T.P.-22'

 $+90-7' \quad 15'$

464-P.P.-24'

149-Ed-39

+29-Rod-56'

430-T.R.-21"

14 14'

174-Tp-43

468-PH-24

482-Rod-7'

470-18'00-32

F67-FC-36

Plank Xing

12' 31'

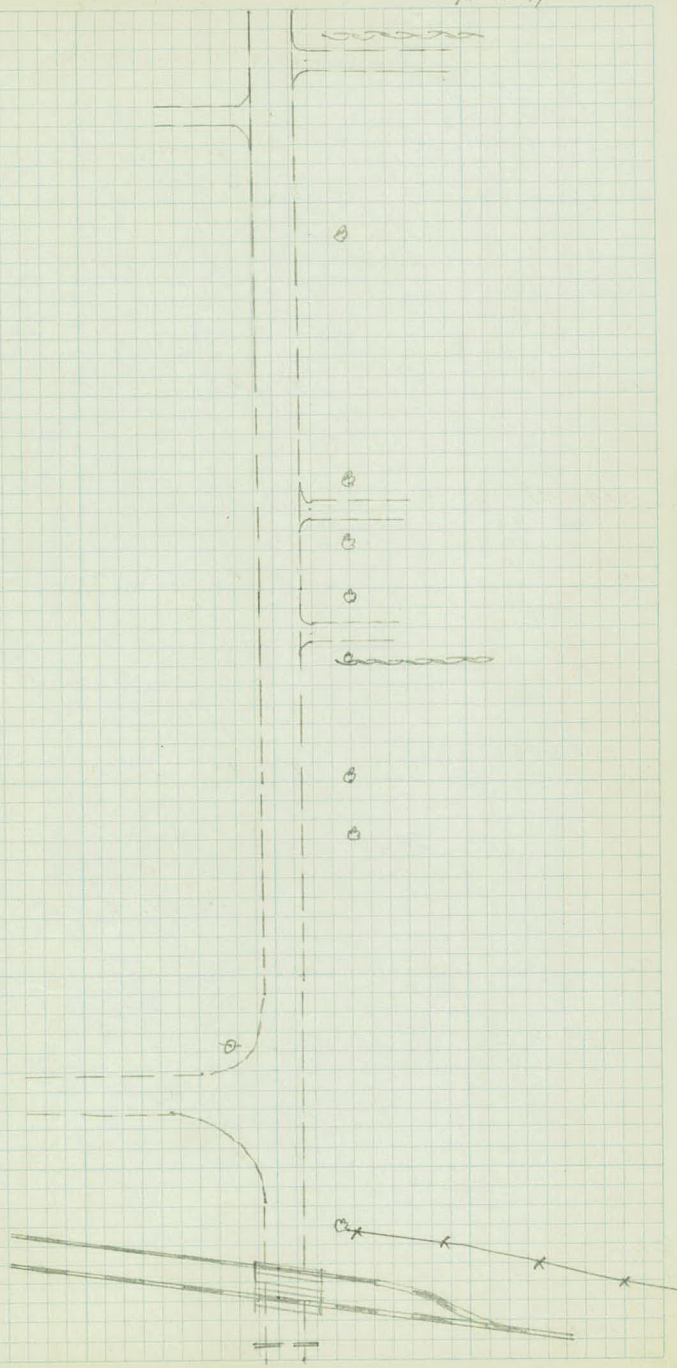
12' 20'

7	13
---	----

• 407-ND 1007-18' x 3' 2" 104

104

10-11-21



+90-End FC-30'

+50-PP-1 FC-28'

+40-Rong TIC

+27-FC Cor-20' 2

+12-Rong TIC

+10-FC-23' x

117

11'

11'

FC-18'

+28-Ent.

+90-Din difab-27'

116

11'

11'

FC-19'

+11-PP-27'

+99-End Row 15" BE-30'

+87-

+67-

+48-Row Row 15" BE-30'

+30-Ent.-12" X 20" M-22'

115

11'

11'

FC-18'

+65-PP-27'

114

11'

12'

FC-18'

+05-Ent.

+95-15" a-31'

+50-FC-19'

+32-10" TW BE-21'

+06-GP-20'

+04-FC Cor-24'

113

10'

+90-Ron-53'

+68-Cor-53'

+64-TP-26'

+45-8" Pinc-33'

+43-8" Pinc-41'

+30-8" Pinc-35' +40-TP-23'

+25-Ron-15'

+25-15" E/m-41'

+35-20" a-24'

+25-PP-26'

+50-PP-26' 15" O-24'

+50-GP-20'

112

10'

13'

+15-20" a-28'

+95-15" E/m-40'

+53-Ent.

+38-15" E/m-38'

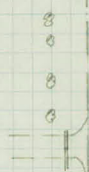
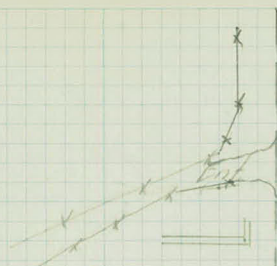
+34-TP-21'

111

10'

12'

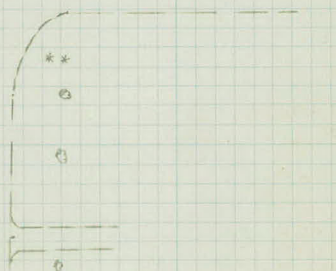
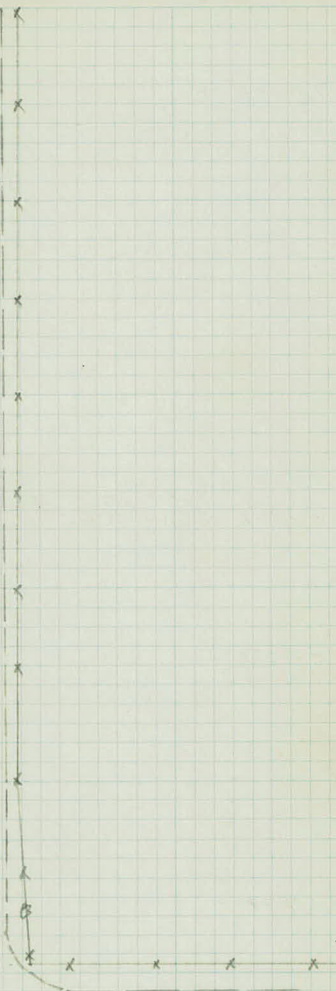
+04-PP-25'



0

0

0



f80-Swamp - 60

f56-PP-29'

124

13' 7' Fc-15'

f14-PP-29'

123

13' 8' Fc-16'

Ditch Lt)

Total = 45'

X34-X Drain - 18" X 42.56 enc.

24' 21'

2.5' Vit. on E. End X Drain

122

12' 8' Fc-18'

f68-PP-27'

121

12' 8'

f50-Lowland - 18'

f31-PP-27'

120

12' 9' Fc-18'

119

12' 9' Fc-19'

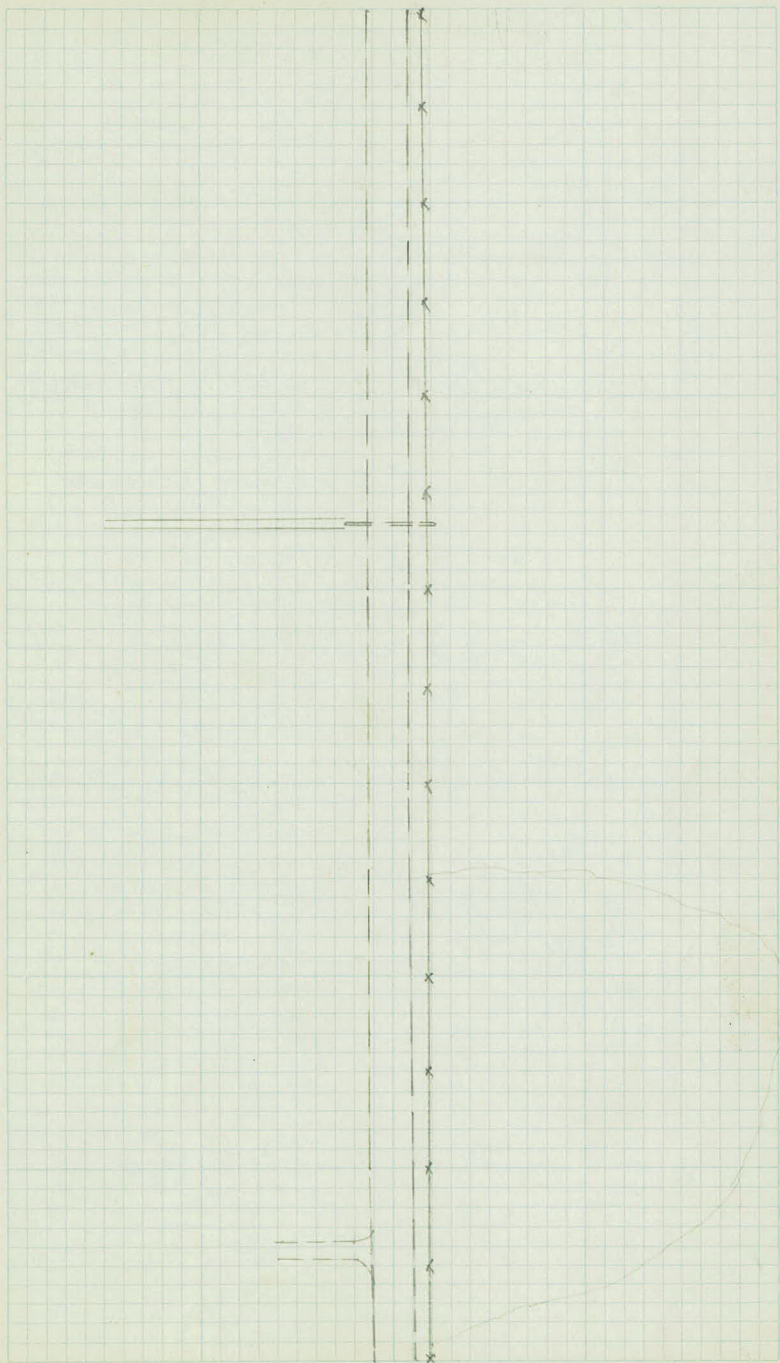
f86-PP-27'

f56-Ent

118

10' 11'

for target tie)
109-Lowland - 20'
Fc-19'



+79-FC Cor - 37'

+58-FC - 34'

+55-PP - 30'

+74-16' Elm - 31'

+58-Row - 10' PE - 30'

+56-FC Cor - 17'

131 14' 8' FC - 17'

+62-Ent.

+23-PP - 30'

130 14' 8' FC - 16'

+65-Drive - 50'

+35-R. Ent. of Bl. Top

129 13' 8'

+85-PP - 30'

+87-FC Cor - 17.5'

+33-Range Tie to d. Feb. Prim. Cuts

• +19-X Drain 18" x 55' Corc. 30.5' 24.5'

128 13' 8' FC - 16'

+41-PP - 30'

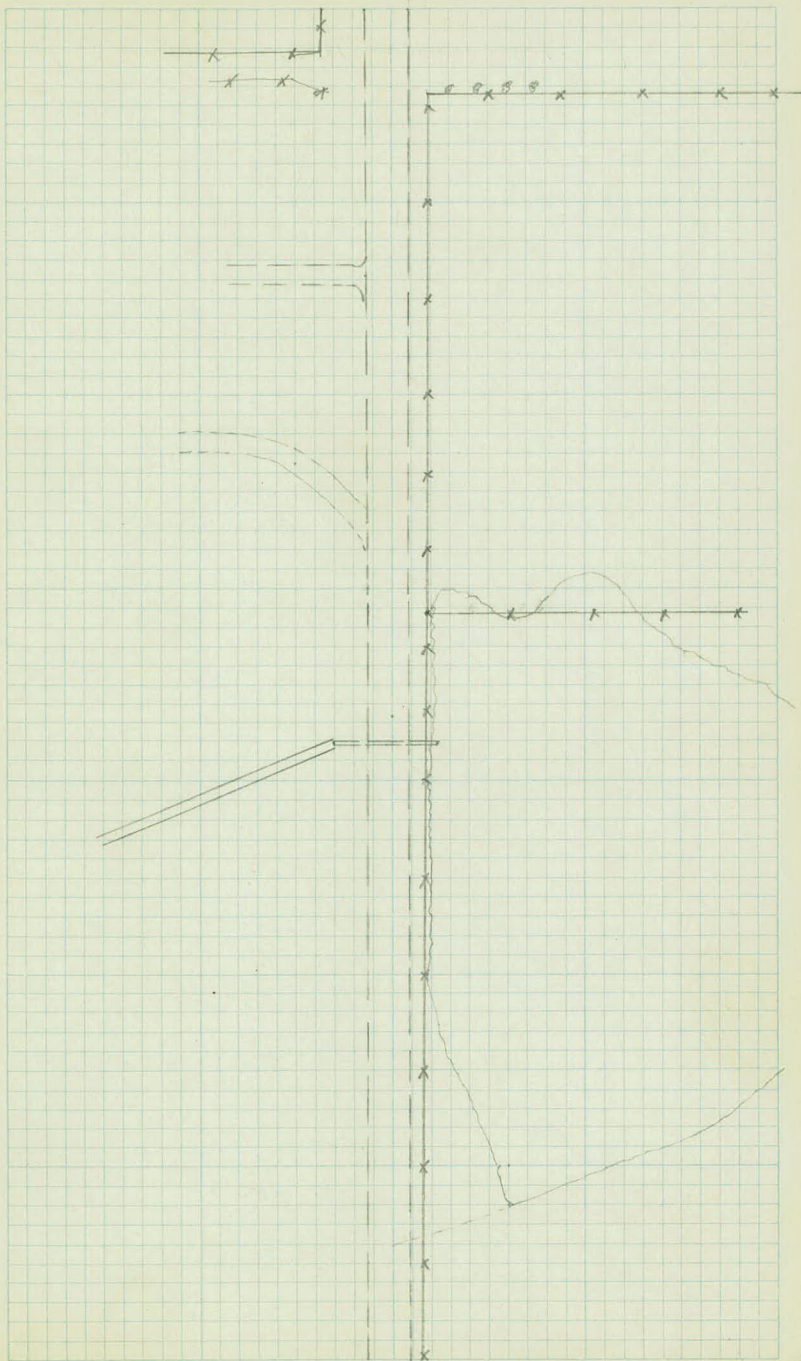
127 13' 8' FC & Swamp - 16'

126 13' 8' FC - 16' Swamp - 55'

+98-PP - 29'

+80-Swamp - 60'

125 12' 8' FC - 15' Swamp - 55'



+77-12"E/m-31'

+70-6"E/m-36'

+96-5ump-36'

+37-8"E/m-32'

+33-5"E/m-33'

+03-PP-29

138 FC-33

11' 12'

+95-12"E/m-32'

+55-12"E/m-33'

+54-18"E/m-35'

+12-15"E/m-33'

137 FC-34'

12' 12'

+17-15"Rep-32'

+76-PP-29

+71-15"E/m-34'

+32-12"E/m-33'

+30-6"E/m-34'

136 FC-34'

12' 11'

+95-10"E/m-33'

+54-5"E/m-31'

+41-PP-30'

+17-5"E/m-33'

135 FC-35'

13' 11'

+83-2-6"E/m-31'

+55-PP-31'

+43-Ent-15' x 20' x 17'-26'

+06-PP-30'

134 +02-Ent E/m-29'

FC-36'

10.5/m 13' 11'

+92-Box-5"E/m-32'

+65-6"Trip E/m-30'

+01-2A-8-33'

133 FC-37'

+92-PP-29

14' 10'

+22-12"E/m-31'

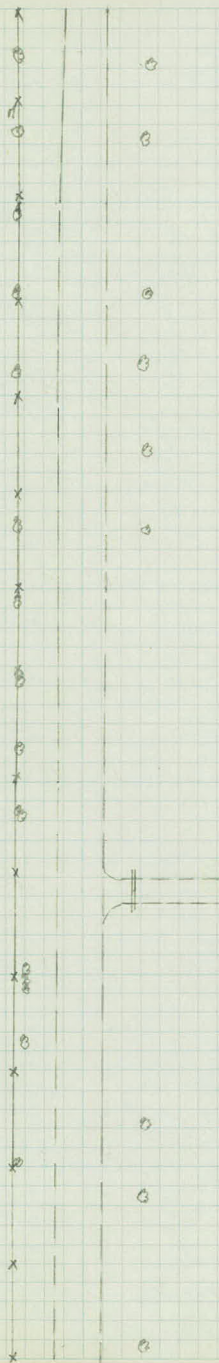
+84-15"E/m-31'

132

15'

9'

+06-12"E/m-31'



+76-Δ 1m Fc-40'
+66-15" Elm-35'

+28-12" Elm-34'
+19-PP-23'
145 10" Elm-35' Fc-40' 10' 14'

+34-24" Ash-34'

+69-12" Elm-35'

+67-24" Ash-40'

+38-12" Elm-35'
+25-6c Cor-41

+36-12" Ash-40'

144 Fc-41' 10' 14'

+60-Lowland-32'

+46-PP-29 Fc Cor 36'-54'

1

+21-15" Elm-40'

143 Fc-35' 9' 13'

+89-12" Elm-40'

+52-15" Elm-40'

142 Fc-35' 8' 14'

+16-8" Elm-39'

+94-PP-29'

+95-G.P.-35'

+80-8" Elm-38'

+70-8c5 Lowland-33'

+50-10" Elm-33'

+40-12" Elm-38'

141 Fc-34' 8' 13'

+99-12" Elm-32'

+62-8" Elm-38'

+68-12" Elm-32'

+60-PP-29'

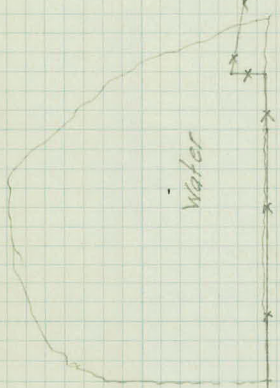
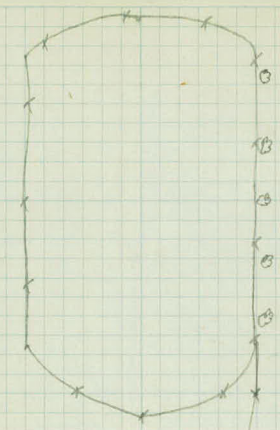
+27-12" Elm-32'

140 +01-Ent-12" X 26' G.M.-26' 8' 12'

+89-10" Elm-31'

+29-PP-29'

139 Fc-34' 8' 13'

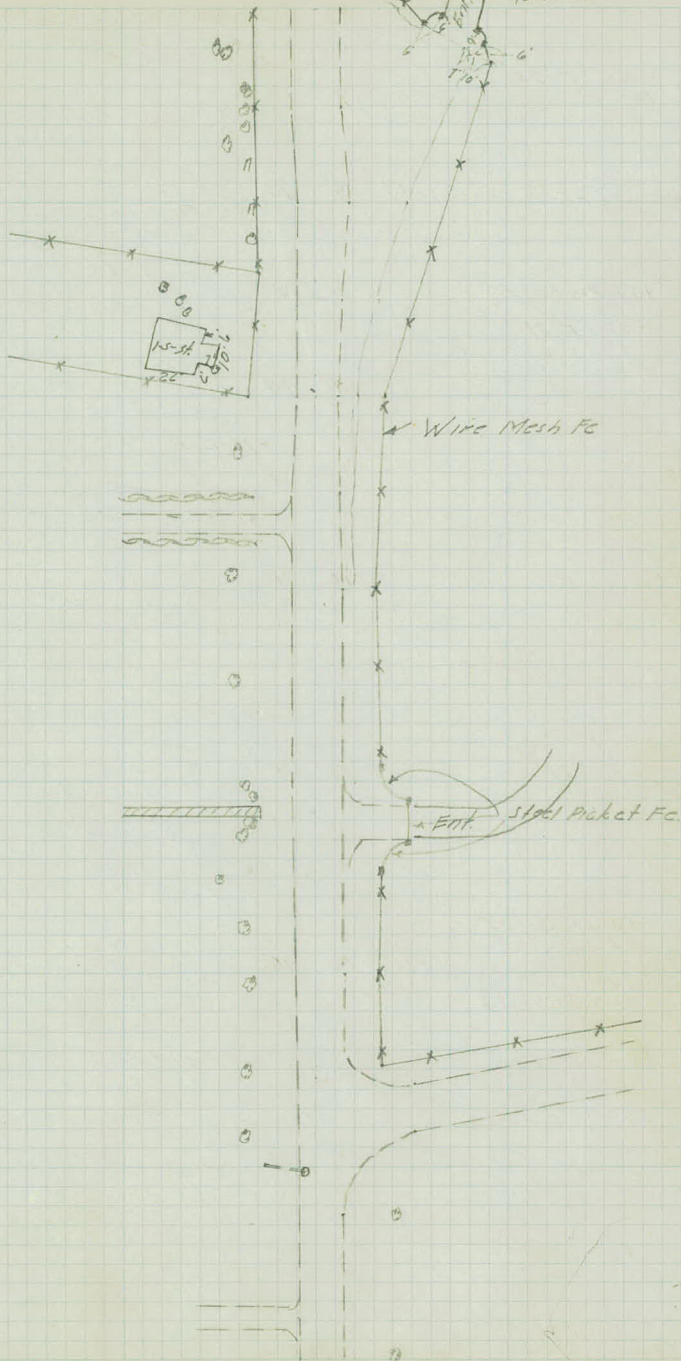


Water



		11'	13'	Driveway - 43'
+81-12'0"-50'				+93-Ctr. 2'X2' Conc. Pillar - 38'
+73-15'0"-46'				+73-Fc Cor. - 91'
+57-2'12" Oaks - 35'				
+50-Fc - 32'	11'	15'		
+39-24'0"-35'				
+34-12'0"-44'				
+20-2 Stumps - 33'				
+11-5 Fc Cor. Ho. - 63'				
152 +03-Range Tie	9'	17'	Driv. - 49'	
+96-Stamp - 34'			+99-PP - 53'	
+82-12'0"-31'				
+64-Fc Cor. - 29'	9'	14'	Driveway - 33' I	
+60-Range Tie				
+38-PP - 26'				
151	9'	12'	Edge Driveway - 23' Fc - 37'	
+99-Fc Cor. - 35'				
+95-Range Tie			+82-5" Cedar - 33'	
+71-6" Ash - 40'			+77-Gate	
			+71-6" Cedar - 32'	
+46-Hedge - 32'	12'	13'		
+33-Ext				
+23-Hedge - 30'				
+07-24'0"-42'				
150	12'	15'	Fc - 32'	
+52-10" Birch - 40'				
+42-PP - 29'				
149	12'	14'	+06-Conc. Pillar - 33'	
+92-Shrub - 33'				
+85-6" Conc. Walk - 28'				
+79-Shrub - 32'			+90-Ctr. Conc. Pillar - 46'	
+74-8" Pine - 36'			18"X18" Pillars	
+53-12" Birch - 49'			+69-Ctr. Conc. Pillar - 46'	
			+54-Ctr. Conc. Pillar - 33.3'	
+24-12" Elm - 35'				
148	11'	14'	Fc - 33'	
+85-20" Elm - 33'				
+50-18" Elm - 35'				
+40-PP - 27'			+51-Fc Cor. - 34'	
+17-15" Elm - 35'			+46-Range Tie to Fc.	
+01-End 6" T. 16 - 25'			+42-Rod - 51'	
147	9'	26'	+19-Rod - 51'	
+91-PP - 28'				
+98-M. H. - 6'			+75-Rod - 14'	
			+70-8" Elm - 41'	
+22-Ext.				
146	9'	13'	+03-8" Elm - 41'	

10-11-41



+170-Ent. 15X30 CM - 28'
 +172-Range Tie to Hedge
 +68-Hedge-37'

+62-T.P.-33'
 +45-Ent. Fe-53' 9' 14' Fe-36'

+118-End Fe-34'
 159 Fe-52. & Trail-44' 9' 14'

+85-Fe Cor-36'
 +84 & 5' Wide Hedge-43' Pos. Fe.
 +174-Ent. -12" X 22" Vit -32'
 +65-End Fe-35'

+155-Hes Fe-35'
 +39-Fe Cor-54'
 +46-T.P.-31'
 +47-Range Tie 3'
 +16-Fe Cor-34'
 158 T.P.-53'

Mouth-6' Outlet-3'
 +10-Cor Spillway-19.5-30.5'
 +07-PP-30'
 +02-Pos. Fe-31'
 9' 14'

+193-Ent. 12" X 30 CM - 34'

+131-Fe Cor-34' ~
 +75-Range Tie

157 Fe-39' 10' 11'

+139-PP-31'

156 Fe-41' 12' 11' Fe-34'

+110-15" O.-45'
 +09-12" O.-42'
 155 Fe-39' Str-42' 12' 10' Fe-33'
 +97-Strump-37'
 189-15" O.-44' 190-PP-29'

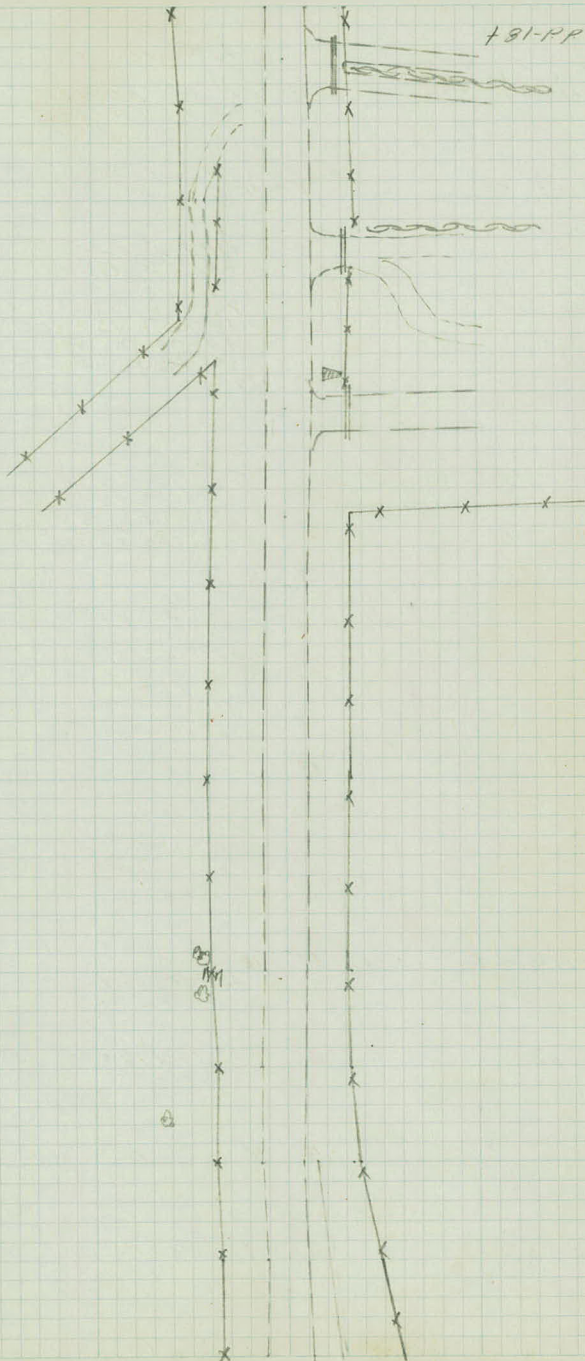
Fe-37' 14' 9' Fe-33'

+21-15" O.-62'
 154 Fe-37' 14' 8' Driveway 15' Fe-31'

+50-Fe-35' 11' 12'

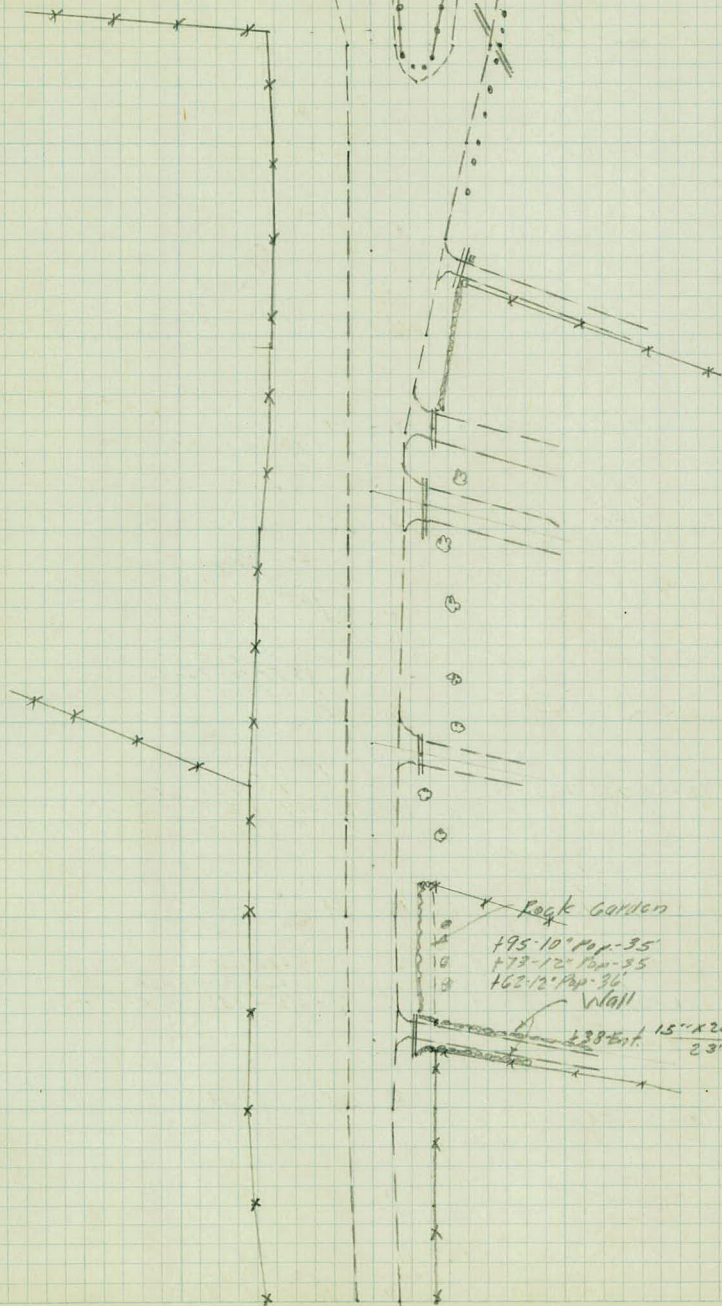
+50-Fe-49 10' Ave-37'
 196-PP-47'

+81-PP-34'



+68-Fc Cor-53' +52-Range Tie	+78-19'	+67-End G.R-70' +50-G.R-67' Pl Top-62' +37-End 24' C.M-74' Pl Top Rod-14'-57' +44-Bog Cable G.R-18'-31' +34-G.R-23' 138-PP-23' +31-Rod-22'
166 Fc-50' +99-G.P-50'	12'	50' G.R-56'
Fc-50'	11'	+74-Bog G.P-50' +60-PP-47' +40-Clr 2'x2' Stone Pillar-52' +34-Ent-15'x20' C.M- +44-Range Tie to Fc +38-Clr 2'x2' Stone Pillar & Fc-49'
165 +99-Fc Cor-52' +9-Range Tie	11'	29'
Fc-52'	11'	+60-Bog Rubble Back Slope-34'-36' +52-Ent-15'x20' C.M-32' +37-PP-32' +26-18" Elm-47' +20-Range Tie 2 +12-Ent-15'x24' C.M-28'
+20-TP-44'	12'	16'
164 Fc-57'	12'	+94-18' Elm-39'
Fc-60'	12'	+63-12' Elm-41'
163	13'	+23-10" Elm-43'
+85-TP-43' +68-Fc Cor-64' Fc-64' +41-Range Tie	13'	13'
162 Fc-64	14'	11'
Fc-64'	12'	12'
+36-PP-29'	13'	10'
161 Fc-65' +98-TP-42'	13'	10'
Fc-62'	11'	11'
160 Fc-50'	9'	13'
		Fc-34'

10-13-91



Rock Garden

195-10' Pop-35'

173-12' Pop-35'

162-12' Pop-36'

Wall

238' Ext. 15" x 20' C.N.
23'

FC-29' 151.53 8' 14' +45-120. + dia FC-34'

119-PP-20'
172 FC-30' 7' 16' T.P-30' FC-35'

+60-Range Tie 2
20'-175'-FC-Cor-40' PP-44'
+60'-End 12" C.M.-30'
7' 24' +51'-End 12" 140' C.M.

+42'-End Cable G.R.-15'
+01'-FC-Cor-31'-48'
170 P.P.-52' G.R. 8' 45' 34'+21'-End 12" C.M.-44'
+85'-TP-50'-Cor-Cor-59'
+09'-Range Tie to Cor

+84'-Beg. Cable G.R.-16'-G.R.-78'
G.R.-92'-50'-22' +63'-85'-56'-15'
156'-33' 17' +75'
8'-31'-+63'-G.R.-12'
6'-39'-62' G.R.-9'-31'
+54'-End Cable G.R.-29'

+25'-G.R.-59' 42' 55' +25'-1'
+08'-G.R.-3' 108-7'
169 G.R.-45'-6' 43'-11' 54'-75' G.R.-50'
G.R.-10'-45' +94'-42'-10' 7'

+63'-Beg. G.R.-62' +75'-50'-4'
48' Long 2
+34'-End Cable G.R.-31' -57' 2'-62'-83' G.R.-6'-58'
+38'-G.R.-36'
+25'-End 24" Conc. Culv.-40'
+25'-G.R.-19' Road-16'

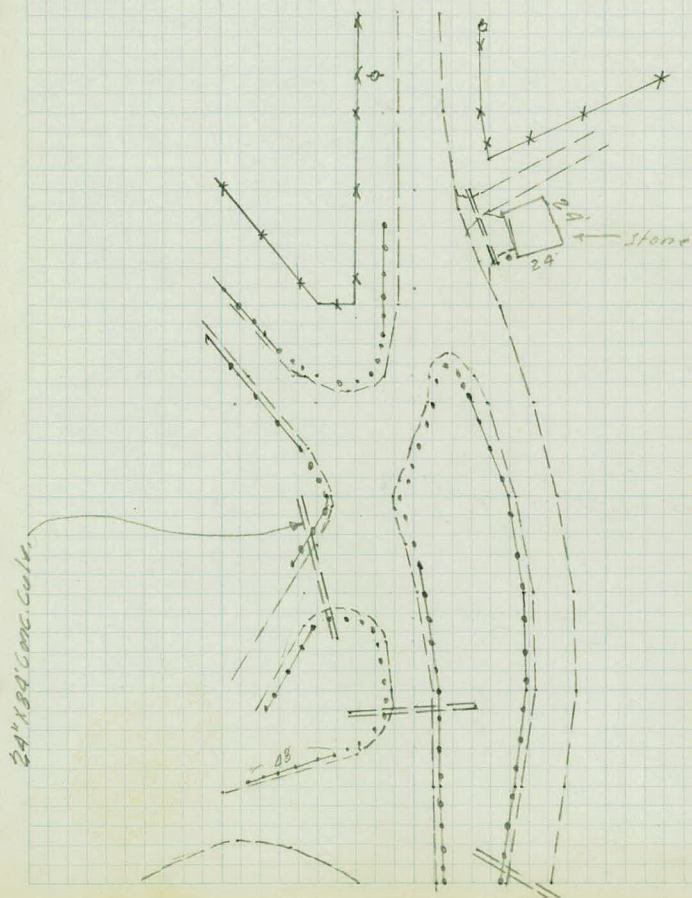
168 12' 10'-63'-84' G.R.-14'-59'
+89'-End 24" Conc. Culv.-34' +92'-End 24" Conc. Culv.-32'
+87'-G.R.-16' 190-11'
24" X 67' Conc. Culv.
+67'-30'

+65'-End Cable G.R.-42' 10'-51'-78' G.R.-14'-53'
Beg G.R. Posts 447-100

+22'-71'
+19'-64' +14'-64'-43'
167 29' Road 11' 48'-71' G.R.-15'-44'

10-14-41

Sta. 171+51.53 to
Note: See 4-2-41 Plan Survey for Topog.
Use red figures as they are computed
for this stationing.



223 11' 10'
+93-PP-24'

222 11' 10'

+67-PP-24'

221 11' 11'

+56-Ent-15"X20"CM-22'

+42-PP-25'

+17-30"Pop-29'

+02-End Drain Tile-30'

220 11' 13'
+98-24"Pop-32'

+56-5 E Cor Ho-68' 12' 10'

+06-PP-26'

219 18' 13'
+94-X Drain-15"X34"CM 30' 24'

218

$$\begin{array}{r} 44' \\ 1536 \\ \hline 22' \end{array}$$

13' 11'

171-Ent

153-Fc Cor-33'
130-PP-21'

230 FC-37' 10' 10'

146-Fc Cor-42'

229 10' 9'

196-Beg Fc-42'
189-PP-21'

175-Fc Cor-38'

157-Beg Fc-36'

Monk Xing-16' 16'

228 10' 9'

109-PP-21'
190-Fc Cor-33'

186-TP-16'

227 11' 10'

179-PP-22'
162-Beg Fc-32'

129-Ent-15' X 20' C.M. - 26' } 30'
110' 12' C.M. on N End

226 11' 10'

144-Apple - 40' P.R.-23'
129 - 40'
113-4' Apple Tr.-40'

225 11' 12'

187-5' Anc-39'
176-S.E. Cor Ho-64'

168-Ent-15' X 20' C.M.-23'
154-4' Pine-39'

118-PP-23'
103-Ent-12' X 20' C.M.-21'

224 11' 11'

1-J-R
32'

237

236

235

234

233

232 103- FC. Cox- 32'

195- Kargo Pk.
113- RR-20

146- 8" BE- 37'
153- 10" BE- 39'
140- 6" BE- 40'
128- 6" BE- 40'
112- 6" BE- 40'

231 10" BE- 39' FC- 32'

11' 11'

196- FC Cox- 29'
Double End- 15' X 40' CM. - 21'

1

Bench Levels.

Sta	+	π	-	Elev
B.M.	7.52	952.86		945.34
T.P.	1.07	947.92	6.01	946.85
T.P.	5.95	947.60	6.27	941.65
B.M.			1.80	945.80
T.P.	5.77	948.41	4.96	942.64
T.P.	8.54	953.75	3.20	945.21
T.P.	7.09	957.68	3.16	950.59
B.M.			5.32	952.36
T.P.	5.72	963.16	0.24	957.44
T.P.	1.69	958.32	6.53	956.63
T.P.	5.81	956.57	7.56	950.76
B.M.	5.44	960.12	1.89	954.68
T.P.	5.09	962.42	2.79	957.33
B.M.	3.61	958.54	7.49	954.93
T.P.	1.84	953.56	6.82	951.72
T.P.	3.92	944.20	13.28	940.28
B.M.	2.85	943.55	3.50	940.70
T.P.	2.15	939.02	6.68	936.89
B.M.	10.51	937.25	12.29	926.79
T.P.	0.88	934.57	3.56	933.69
T.P.	2.15	924.00	12.72	921.85
T.P.	5.31	923.84	5.45	918.55
T.P.	7.19	929.52	1.53	922.33
B.M.	7.41	930.75	3.18	926.33 (926.38)

Top Mont. Lepenteur + Hamline Ave

Top Hyd. S.W. Cor. Garden + Hamline Ave

Top Mont. & Roselawn + Hamline Ave.

Top N. W. Cor Lower Cong Steps - No. Steps. School

Top Mont. at Co. Rd. "B" + Hamline Ave

SpK. in P.R. 22' Lt. Sta. 68+70

(9405)

Top Mont

(9357)

Top Mont. Co. Rd. "C" + Hamline Ave

(9357)

Sta	+	930.74 K	-	Elev.	
T.P.	2.81	926.37	7.19	923.56	
T.P.	0.98	916.80	10.55	915.82	
T.P.	7.50	918.98	5.32	911.48	
T.P.	4.65	917.39	6.24	912.74	
B.M.	7.45	922.24	2.60	914.79	914.88
T.P.	3.88	920.27	5.85	916.39	
T.P.	3.94	916.23	7.98	912.29	
	3.25	915.30	4.18	912.05	
B.M.			2.17	912.83	912.96
T.P.	7.43	913.04	9.67	905.63	
	0.10	906.90	6.26	906.80	
B.M.			6.80	900.09	900.21

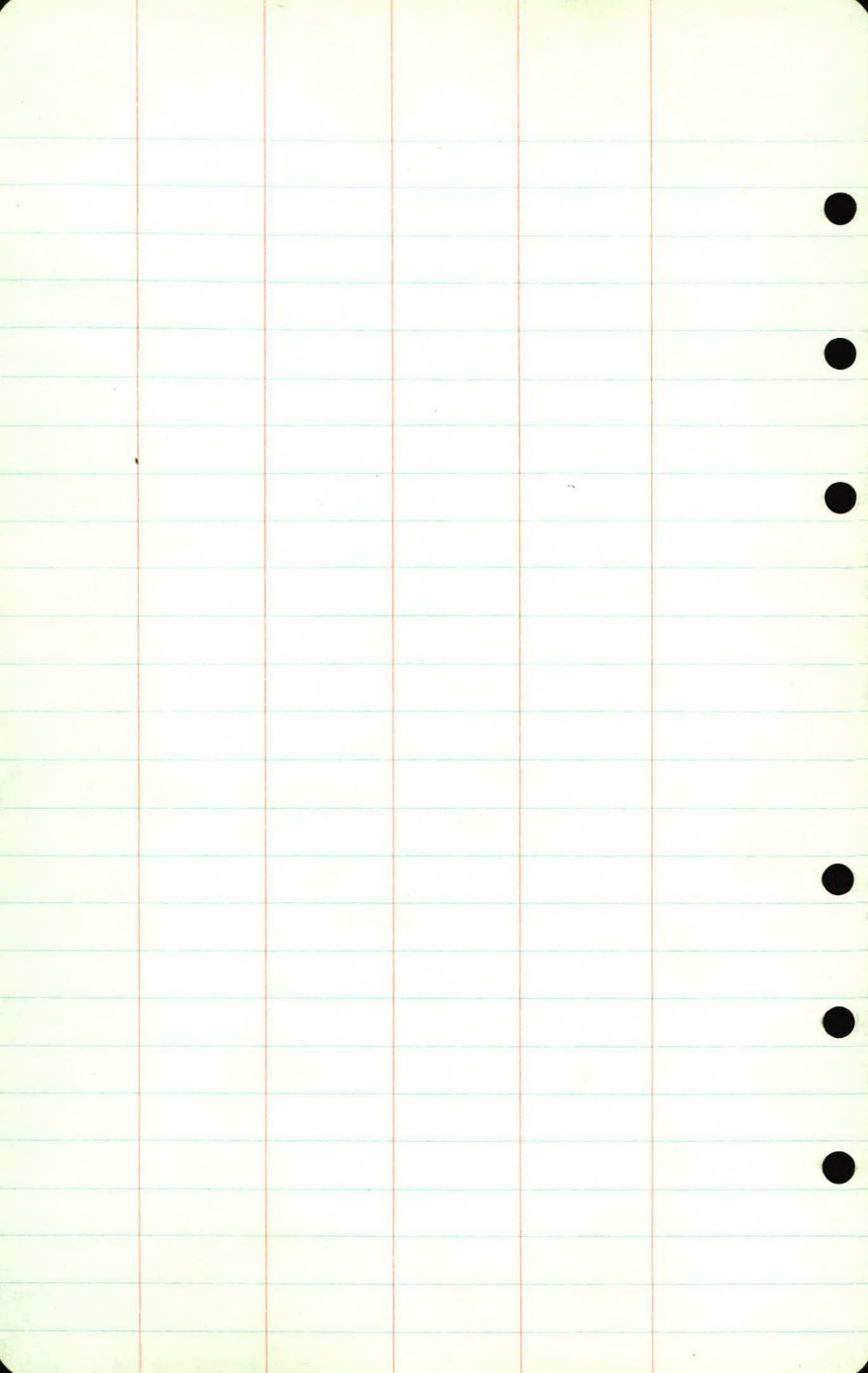
Top Mont.

Spk. in PP 47' Rt. St. 153 + 46

717.94

Spk. in PP

100.00



X Sections

Sta	t	T	-	Elev.
B.M.	5.22	950.56		(945.34)

0	+00		5.22	
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	+10			
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	+36			
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	+50			
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	+80			
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1				
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	+50			
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2				
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TP	571	953.46	2.81	947.75
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10-13-41

Lt

\$

Rt

Top Mont. Carpentier + Hamline Ave's

516 529 540 627 736
50 25 25 50

FL. G.W.

7.2 760 48 48 5.3 52 6.0 57 4.4
50 38 36 26 19 15 37 50

57 49 5.3 5.3 5.1 5.8 5.1 4.1
50 34 23 14 13 34 50

54 53 41 50 52 48 49 5.3 5.1 4.2 39
50 45 39 24 14 7 9 19 29 50

5.1 5.0 48 4.6 5.2 5.0 4.6 45 5.1 5.0 6.2 5.8 4.2 5.8
50 45 42 25 21 14 9 9 18 21 25 28 50

48 48 37 4.1 45 4.3 37 36 4.0 4.1 5.3 5.3 4.0 3.5
50 46 41 23 22 14 5 8 17 21 23 28 50

4.2 4.2 31 31 36 34 3.0 3.5 3.6 4.5 4.5 3.5 3.0
50 46 41 22 17 13 8 18 21 23 26 50

Sta	+	Δ	-	Elev
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		952.46		
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2	+50			
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3				
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	+50			
--	-----	--	--	--

	+67			
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4				
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	+50			
--	-----	--	--	--

	+73			
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5				
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Lt

L

Rt

53 51 59 58 52 52 58 6.0 58 69 69 50 50
50 25 17 13 6 8 14 17 21 24 29 50

SW
4.04 4.1 4.5 5.8 5.2 4.8 4.7 5.1 5.0 6.2 6.2 3.7 4.4
50 43 25 18 13 6 9 18 21 24 30 50

3.7 3.8 4.4 5.1 4.7 4.6 5.0 4.9 6.2 6.2 3.3 4.1
50 42 24 18 11 9 17 21 24 30 50

373

End Conc. Walk. 43'

3.9 3.8 4.4 4.7 5.3 50 4.9 5.4 5.5 6.3 6.3 3.8 4.0
50 43 39 22 18 11 9 18 20 24 30 50

End Conc. Drive

3.74 4.1 4.7 5.1 5.6 5.5 5.4 6.0 5.9 6.8 6.8 3.9 4.4 4.6
5.2 4.4 3.9 2.2 1.7 1.1 9 18 20 24 32 39 50

1

Top Conc. Step 4.45
43'

5.1 5.4 5.9 6.3 6.8 7.0 6.7 6.6 7.1 7.3 7.5 7.8 5.1 5.9
50 43 38 22 17 12 11 8 9 20 22 31 50

Sta	+	π	-	Elev.
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		953.46		
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5	+42			
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	+50			
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	+75			
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6				
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	+18			
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	+20			
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	+36			
--	-----	--	--	--

	+74			
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Lt

L

Pt

607

655

754

Top 42'

Bottom Step

End Good Walk 187

58 59 67 79 78 79 84 83 89 96 91 85
 50 46 40 16 12 9 12 20 22 23 50

64 67 76 82 86 85 83 88 86 92 103 100 117 110 100 104
 50 44 38 25 18 12 9 12 19 22 26 29 36 41 50

63 67 79 86 90 90 87 92 94 119 123 119 124
 50 45 39 24 18 12 9 29 34 39 41 50

63 67 81 90 92 90 94 100 98 133 135
 50 45 38 18 12 8 21 31 39 50

671 776 890
 43 42' Top Walk
 Top Step Bottom 18'

82 87 94 95 93 98 102 195 138 145
 50 40 22 12 9 20 31 41 50

81 91 98 99 98 103 109 140 152 144 156
 50 37 19 11 9 22 29 35 41 50

Sta	+	X	-	Elev
		1 953.46		
6	+76			
IP	3.43	947.01	9.83	943.58

7				43.4
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	+45			
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	+50			42.9
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8				42.7
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	+40			42.5
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	+40			
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	+70			42.3
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LH

L

RH

$\swarrow$ 5.14 $\searrow$
 8.43 9.41
 43 18

18 20 25 31 37 3.7 36 41 49 78 94
 50 45 42 32 23 12 9 23 29 50

Long Walk. 2.11
 43

17 21 31 3.7 41 41 46.51 53 50 66 79
 50 45 40 26 10 9 20 24 27 34 50

0.2 0.6 3.2 41 44 43 4.8 5.2 53 76 85
 50 42 42 19 10 10 23 32 40 50

0.1 0.4 3.3 4.4 45.5 15.7 7.2 9.7
 50 42 42 10 9 27 29 50

2.0 33 ditto
 50 42

L.O. 0.0 3.5 4.3 4.7 4.7 47.5 2 5.7 10.4 11.2
 52 42 18 16 10 8 24 38 50

Sta	+	-	Elev
		947.01	
8	+80		
9			42.1
	+50		41.7
	+56 for X Drain		41.6
	+83		41.5
10			41.5
	+50		41.8
11			42.6
T.P.	4.89	947.66	424 942.77

Lt.

L

Lt

Top step 0.01 Bottom 3.71
52 43

4.5 00 88 49 50 49 53 61 11.7 13.8
60 52 42 19 11 9 28 40 50

1.24 1.19 41 4.8 57 53 53 57 65 85 16.8
65 55 39 21 19 11 8 19 34 50

Bottom 3.91 46 FL. Col. TQM.H. 800 575 5.4 5.4 5.8 6.6 7.8 16.7 23.2
Gonc. Step 40 22 18 11 7 18 33 38 70

Gonc. (Drive)
1.86 3.50 3.8 5.1 5.5 5.5 5.8 6.2 17.6
50 43 40 22 11 7 18 50

0.8 3.2 4.8 5.6 5.9 5.5 5.6 5.4 5.6 11.1 17.5
50 42 24 18 10 6 8 17 31 50

2.0 3.3 4.8 5.0 5.2 5.5 5.3 5.6 12.3 15.3
50 43 20 11 6 9 18 37 50

1.0 3.1 3.7 4.7 4.4 4.4 4.8 4.7 4.9 9.7 12.3
50 39 21 19 10 7 10 19 35 50

Sta	+	x	-	Elev
		✓ 947.66		
11	+50			42.9
12				42.9
	+50			42.8
	+87			42.7
B.M.			1.85	945.81
13				42.7
	+09			42.8
+22.20 E Gordon Ave.				42.9
+35				42.9

Lt

A

Lt

1.4 27 35 42 47 48 50 49 51 110 140
50 39 29 16 10 7 10 18 34 50

26 42 42 49 48 52 51 51 117 145 118 11.8
50 30 18 10 7 10 19 38 43 48 50

1.1 15 42 47 50 49 53 52 54 88 98 82 81 7.3
50 43 28 20 11 7 10 19 26 28 32 41 50

FL. GULV

FL. GULV

1.3 24 45 6.3 6.83 50 50 50 53 52 7.43 7.2 57 48
50 37 29 24 21 18 13 8 15 19 27 36 50

Top Hyd SW Cor. Garden & Hamline Ave's.

5.7 6.4 5.1
50 23 18

50 5.4 6.7 6.8 6.1 5.8
19 23 29 39 50

4.9 5.1 4.9 5.3 4.8
50 25 25 50

1.8 2.5 3.3 4.6 4.8 4.6 4.3 4.1 6.0
200 150 100 50 50 100 150 200

4.7 5.1 4.8 5.0 4.6
50 25 25 50

Sta	+	X	-	Elev
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		947.66		
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13	+41			
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	+46			
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14				
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	+50			
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15				
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			43.0	
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	+50			
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T.P.	5.79	950.10 949.10	3.35	944.31 943.31
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16				
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	+50			
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Lt

4

Rt

56 6.1 51
50 23 18

48 53 6.2 60 57
22 25 34 50

44 48 43 51 48
50 27 22 18

54 6.0 58 46
18 22 33 50

47 50 55 57 43 47 46 48 47 55 5.0 28 35 33
50 27 25 22 17 13 7 19 21 24 30 44 50

49 49 56 57 43 41 40 42 47 40 54 48 30 25 23
50 27 24 22 18 13 7 12 15 21 25 29 32 50

47 43 54 55 38 38 37 39 39 50 49 22 1.7
50 27 24 22 17 13 7 18 21 24 31 50

40 47 50 53 53 38 37 35 37 38 35 48 44 23 1.7
50 35 25 23 21 17 12 7 15 18 21 26 31 50

7.7 7.9 7.8 7.6 60 60 58 60 63 61 7.2 7.2 56 5.1
50 34 27 22 17 13 7 15 19 22 25 27 50

8.2 7.8 7.7 58 58 57 58 58 6.4 6.8 63 58 51
50 34 22 18 12 6 18 21 24 26 31 50

Sta	+	Σ	-	Elev
		950.10		
		949.10		

17

+50

18

+50

19

+50

20

I.P

4.99

954.67
953.67

0.42

949.68
~~948.68~~

+50

L.A.

E

R.L.

7.0 7.3 7.8 7.5 6.0 5.7 5.6 5.8 5.9 6.8 6.8 6.3 5.8
 50 34 28 21 19 13 7 19 21 23 26 50

7.7 7.3 7.3 7.3 5.8 5.6 5.4 5.6 5.7 5.4 6.4 6.5 6.0 5.7
 50 32 25 21 18 13 8 15 19 20 24 26 50

7.3 6.7 6.6 7.0 7.0 5.5 5.3 5.1 5.1 5.4 5.4 6.0 6.0 5.6 5.5
 50 34 25 24 21 18 12 4 7 20 21 24 25 50

6.9 6.4 6.7 6.7 5.3 5.0 4.7 5.0 5.1 6.2 6.2 5.8 5.2 5.0
 50 26 23 22 18 12 7 18 20 23 25 38 50

6.5 6.2 6.2 4.7 4.6 4.2 4.2 4.5 4.9 5.9 5.8 4.8 3.9
 50 30 21 17 12 5 7 18 21 24 27 50

5.8 5.7 5.7 4.0 3.9 3.5 3.7 3.4 4.6 4.6 3.0 2.3 1.8
 50 28 22 17 12 7 18 21 24 28 37 50

4.5 4.4 4.8 5.1 3.4 3.0 2.8 2.7 3.0 2.8 4.2 4.0 1.9 0.7 0.5
 50 30 25 21 19 12 5 8 18 21 25 30 34 50

Top Lot 1 ran pt 20 +

8.6 8.3 9.7 9.7 7.3 7.0 6.6 6.7 6.8 8.9 8.8 5.5 4.8 4.5
 50 26 24 22 18 12 7 18 22 29 29 41 50

Sta	+	T	-	Elev
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		954.67		
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20	+ 81			
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	+ 90			
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21				
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	+ 50			
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22				
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	+ 50			
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T.P.	5.16	956.63	3.20	961.47
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23				
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	+ 23			
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Lt.

#

Rt

7.1	7.8	8.1	8.1	6.7	6.5	6.2	6.4	6.7	7.8	7.6	4.8	4.1	3.7
50	26	24	22	18	12		8	18	21	24	30	38	50

7.3	7.3	8.2	8.2	6.5	6.3	6.0	6.3	6.4	7.8	7.8	5.9	4.9
50	26	24	21	17	12		8	21	22	24	28	50

7.0	6.9	8.1	8.1	6.5	6.2	5.9	6.1	6.3	7.4	7.4	5.3	4.5
50	27	24	22	18	11		8	18	22	24	29	50

5.6	5.3	6.8	6.8	5.3	5.1	4.9	5.2	5.5	6.4	6.4	4.9	4.2
50	27	25	21	19	11		8	18	20	23	26	50

4.6	4.4	6.4	6.4	4.5	4.4	4.2	4.5	5.1	6.0	4.7	2.9	3.5
50	28	25	21	18	11		8	19	22	26	30	50

4.4	4.1	6.1	6.1	4.2	4.0	3.4	3.9	4.2	5.5	5.5	1.8	1.2	2.2
50	28	24	21	18	12		8	19	21	24	28	39	50

5.5	5.2	7.5	7.5	5.7	5.6	5.2	5.5	5.4	6.7	6.0	2.1	2.2	2.6
50	29	25	21	18	12		9	17	21	25	31	39	50

5.3	5.1	6.8	6.8	5.2	5.3	5.0	5.3	5.5	6.5	6.0	3.9	3.3	3.2
50	28	24	21	17	11		9	18	21	24	28	43	50

Sta.	+	T	-	Elev
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		956.63		
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23	+72			
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24				
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	+50			
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25				
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	+50			
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26				
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	+20			
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	+27			
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Lt

E

Rt

5.3 5.7 6.3 6.3 5.3 5.2 4.9 5.2 5.2 6.3 6.3 5.3 5.2 4.3
 50 21 23 21 18 12 8 17 21 24 27 30 50

6.0 5.9 6.4 6.4 5.7 5.2 4.9 5.2 5.4 6.3 6.3 5.5 5.2
 50 24 22 20 19 11 8 18 21 24 26 50

6.4 6.4 6.5 5.4 5.2 4.9 5.2 5.2 6.4 6.2 6.2
 50 38 23 19 11 7 14 22 38 50

6.8 6.8 6.8 5.4 5.1 4.8 5.2 5.4 6.1 5.8
 50 39 23 16 11 7 18 39 50

6.8 6.8 6.8 5.3 5.0 4.6 4.8 4.8 5.4 5.3 5.1
 50 39 22 18 12 7 17 20 35 50

6.8 6.8 6.4 4.9 4.7 4.1 4.6 4.7 5.3 5.7 5.5
 50 38 23 19 13 12 20 22 38 50

6.8 6.4 5.1 4.3 3.8 4.3 4.2 5.4 5.5
 50 43 37 17 15 36 41 50

5.3 5.1 4.0 3.6 3.9 4.1 3.6
 50 36 15 20 33 50

Sta + π - Elev

958.63

B.M.

3.26 953.37

26 +44.60 $\pm$ Roselawn Ave

+ 57

+ 66

27

T.P. 10.49 964.50 2.62 954.01

+ 58

28

+ 50

29

Lt.

±

Rt.

TOP MONT. E Roselawn + Hamline Ave

4.7	4.9	5.1	4.8	4.0	3.3	3.2	2.8	2.5	2.1
200	150	100	50	25		50	100	150	200

5.0	4.9	4.3	3.4	3.1	3.3	3.7	3.6
50	43	28	13		16	33	50

5.9	5.8	4.6	4.6	3.4	3.0	3.2	3.8	3.8	4.7	4.8
50	45	38	27	12		11	22	38	43	50

5.1	5.2	4.9	3.1	3.1	2.6	3.0	3.2	4.3	4.3	3.5	3.9	4.0
50	35	21	17	13		7	18	20	22	24	30	50

11.9	11.4	11.6	11.5	9.7	9.6	9.3	9.2	9.5	9.7	10.9	11.0	10.2	9.7	9.0	9.3
50	29	24	22	17	13	7		7	12	15	16	18	21	24	50

9.4	8.8	9.3	9.2	7.9	8.0	7.5	7.3	7.5	7.8	8.4	8.4	7.3	6.2	6.1
50	27	24	22	18	13	8		7	12	16	18	20	25	50

5.9	5.2	7.7	7.7	6.5	6.2	6.1	6.4	6.6	7.1	7.0	5.6	4.5	3.0
50	30	24	21	19	10		6	11	13	15	18	26	50

3.0	2.1	5.2	6.7	6.8	5.8	5.8	5.4	5.3	5.5	5.5	6.0	6.0	5.6	5.0	5.0
50	33	30	24	21	18	12	6		7	12	15	17	19	28	50

S/g + T - Elev

96450

29 +45

+55

+63

+74

£

AVG

+85

+95

30

+20

Lt.

¢

Rt.

1.6	1.4	6.1	6.3	5.2	5.3	4.9	4.8	5.1	5.2	5.7	5.8	5.0	5.0	5.2
50	33	26	21	18	12	6		7	14	16	19	22	36	50

4.8	5.1	5.4	6.5
8	18		50

4.8	5.0	5.4	5.8
	8	28	

1.6	1.8	4.4	5.9	5.1	5.1	4.8		5.4	6.3
50	33	29	20	15	12			50	100

4.9	5.2	5.2	5.8
	6	21	50

4.9	5.2	5.5	6.5	7.0
	10	17	22	50

1.8	1.8	6.0	6.0	5.2	5.2	4.9	5.4	5.6	6.4	6.0	6.4
50	32	23	21	18	12		7	16	19	32	50

2.0	4.2	5.5	5.2	5.2	5.0	5.5	5.4	4.8	0.8	2.0
50	40	27	18	12		8	18	24	30	50

Sta.	+	T	-	Elev
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		964.50		
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30	+ 65			
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31				
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	+ 37			
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	+ 39			
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	+ 70			
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32				
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	+ 50			
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T.P.	1.86	960.49	5.87	958.63
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Lt.

£

Rt.

2.0	2.0	5.3	5.9	5.4	5.6	5.2	5.5	5.5	4.6	1.4	2.3
50	44	24	20	18	12		9	17	26	29	50

1.9	3.8	5.4	6.1	6.1	5.6	5.7	5.4	5.7	6.0	5.7	5.3	1.3	1.5
50	36	23	22	20	18	11		9	13	18	25	32	50

2.5	5.2	5.9	6.3	6.3	5.7	5.8	5.5	5.8	6.2	6.0	4.5	3.8	1.4	2.5
50	34	24	22	20	18	11		9	14	19	24	30	34	50

5.5	5.9	6.1	6.0	4.4	4.3	4.1
8	14	18	25	30	50	

3.7	4.4	5.9	5.9	6.1	5.7	5.9	6.2	6.8	6.8	5.2	4.9	4.8
50	42	29	15	11		9	13	15	17	23	28	50

3.8	4.5	6.6	6.8	6.4	6.4	5.9	6.2	6.3	7.4	7.4	6.2	5.4	5.4
50	34	28	21	18	10		9	13	16	18	21	24	50

5.6	4.7	5.4	7.3	7.1	7.0	6.5	6.5	7.0	7.0	7.6	7.6	6.2	5.7	6.0
50	35	30	27	18	12	6		10	12	14	16	20	34	

spk in P.P. Lt. 50 32+

Sta	+	π	-	Elev
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		969.49		
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33				
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+21				
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+70				
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+79				
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34				
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+42				
-----	--	--	--	--

+55				
-----	--	--	--	--

+64				
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Lt.

¢

Rt.

2.9	1.6	4.1	4.2	3.2	3.3	2.8	2.5	2.2	2.2
50	31	24	21	18	11		25	50	100

3.4	2.5	4.3	4.5	3.5	3.6	3.1	3.5	4.6	4.6	3.8	3.8	3.5
50	29	25	20	18	10		12	16	18	19	36	50

4.7	4.1	5.2	5.4	4.6	4.3	4.0	4.5	4.6	6.6	6.2	5.2	4.1	3.1
50	27	24	21	17	11		10	12	16	18	19	26	50

End conc. walk 4.34
24

6.2	5.0	6.1	6.1	5.0	4.8	4.4	4.9	6.2	6.2	4.8	3.6
50	27	23	20	17	10		11	15	17	22	50

6.8	6.1	7.3	7.3	5.8	5.2	5.0	5.6	7.1	7.1	5.3	4.1
50	26	23	21	18	11		11	16	18	23	50

¢ 9' Conc. drive 5.24
23

6.5	6.3	5.4	5.5	6.1	6.2	7.0	7.0	6.0	5.0
50	30	11		9	14	15	17	22	50

Sta	+	π	-	Elev.
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96049

34 + 71

35

+29

+34

+67

+98 For X Drain

36

+50

Lt

±

Rt

9.3	9.2	6.9	5.9	5.7	6.2	6.5	7.9	7.4	6.9	5.2
50	28	17	11		9	12	16	19	24	50

9.9	9.5	7.1	7.0	6.5	6.8	6.9	8.3	9.0	8.8	7.6	7.7
50	26	16	11		9	14	18	24	28	31	50

10.5	10.5	8.0	7.7	7.3	7.6	7.6	10.5	10.5	7.8	8.2
50	27	17	10		9	19	26	28	33	50

10.6	10.7	8.2	7.8	7.4	7.7	7.9	11.0	11.1
50	27	17	9		9	18	29	50

11.2	11.3	9.1	8.3	8.0	8.3	8.6	12.4	13.0
50	27	17	10		9	18	33	50

F.I. 11.48
21

12.56 F.I.
19

11.3	11.3	9.1	8.6	8.4	8.8	9.1	13.1	13.5
50	26	17	16		9	19	35	50

10.8	11.0	9.5	8.9	8.6	9.0	9.2	11.7	12.1
50	26	17	10		10	19	29	50

Sta	+	T	-	Elev.
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960.49

37

T.P.	5.07	956.84	8.72	951.77
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+50

+83

+89

38

+50

39

+50

Lt.

£

Pt.

10.5	10.4	9.1	8.7	8.6	9.1	9.2	11.5	11.5	10.5	10.0
50	26	16	10		10	17	24	27	31	50

6.9	7.1	7.1	5.3	5.2	5.1	5.2	5.4	7.9	7.5	7.4
50	28	17	13	10		10	14	26	33	50

5.7	6.4	6.8	5.6	5.3	5.1	5.6	5.8	7.2	6.7	6.6
50	29	17	14	10		11	17	24	31	50

4.4	5.0	6.9	6.9	5.5	5.4	5.1	5.5	5.7	7.3	6.6	6.4
50	23	20	17	13	11		10	17	23	31	50

4.0	4.8	7.1	7.1	5.6	5.4	5.1	5.5	5.5	6.9	6.3	6.4
50	24	20	17	13	11		10	13	21	31	50

4.3	5.4	7.0	7.0	5.5	5.4	5.1	5.5	5.9	6.7	7.3	8.2
50	23	20	18	16	11		10	16	19	38	50

4.9	5.8	7.4	7.4	5.9	5.5	5.1	5.6	5.9	7.3	8.0
50	23	20	17	15	10		10	15	25	50

5.1	5.9	7.1	7.1	5.6	5.4	4.9	5.4	5.5	6.4	6.0	5.9	5.5
50	22	20	18	15	10		10	13	18	20	35	50

40

+20

425

+ 75

A1

+50

+56 For X Drain

+65 F.L. Drain Tile R/L

B.M.

3.72

958.40

1.15

95569

95568
(954.68)

LT.					♀					RT.				
50.5	6.3	6.3	6.9	7.0	5.6	5.3	4.7	4.9	5.2	4.7	4.3			
	50	40	35	18	14	11		9	19	27	50			

50.2	49.8				52.3			
6.6	7.0	7.0	5.3	5.1	4.5	4.8	4.9	4.2
50	38	18	14	11		9	24	50

	50.1				52.3			
6.7	6.7	6.8	5.3	5.0	4.5	4.9	5.0	4.0
50	42	18	14	11		9	18	23

50.0	49.4				52.4			
6.8	7.4	6.9	5.2	5.0	4.4	4.7	4.8	5.6
50	36	19	14	11		9	13	16

50.2	49.3				52.3			
6.6	7.5	7.1	5.3	5.0	4.5	4.7	4.6	5.5
50	35	22	15	13		9	17	20

50.1	49.8				52.4			
6.1	7.0	6.7	5.0	4.7	4.4	4.6	4.9	6.6
50	35	20	15	13		9	15	22

F.I. 7.34
17

7.0 F.I.
17

5.85 F.I.

Sta	+	π	-	Elev
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		959.40		
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42

+50

+96

43 +05

+17

+24

+48

+75

Lt.

Z

Rt.

50.2 50.2
 49.6 49.3 49.2 50.8 51.2 51.6 51.4 51.0 49.9
 82 82 88 7.1 92 7.6 7.2 68 70 7.4 86 86 7.1 6.5 5.8
 50 41 37 23 19 14 12 9 17 21 23 25 33 50

51.2 51.0 51.6
 7.2 7.4 8.0 8.1 7.3 7.0 6.6 6.9 7.2 8.1 8.1 6.9 6.1
 50 33 26 19 15 13 9 18 20 22 25 50

53.6 51.6 52.0
 4.8 6.8 6.8 6.5 6.4 6.6 6.8 7.9 8.4 8 7.9 6.6 6.6 6.2
 50 30 24 13 8 16 19 20 22 24 35 50

(SW)
 6.46 6.30
 37 50

52.3 52.4
 5.1 6.0 6.5 6.3 6.1 6.2 5.9
 50 27 20 13 25 50

54.4 54.0 52.4
 4.0 4.4 6.4 6.1 6.0 6.0 5.8
 50 24 18 13 25 50

55.0 54.4 52.7
 3.4 4.0 6.4 6.0 5.7 6.1 6.3 7.7 8.2 7.7 6.6 6.2
 50 24 17 13 8 16 20 21 22 24 50

55.1 54.6 53.0
 3.3 3.8 6.0 5.6 5.9 5.7 5.8 6.7 8.0 8.0 7.2 6.4
 50 24 18 12 7 11 18 20 22 24 50

Sta	+	π	-	Elev
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		958.40		
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44

+32

+65

45

+40

+70

TP	6.35	962.24	2.49	955.91
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46

+16

Lt.

E

Rt.

5⁶ 5⁴3.9 4.6 6.2 5.5
50 23 18 125³5.3 5.4 5.6 7.0 7.7 7.7 7.2 6.4
8 12 19 20 22 23 505⁴ 5²5.0 5.2 5.5 6.2 5.3 5.1 5.3 5.4 7.4 7.5 7.7
50 41 24 18 12 8 13 21 39 505³5² 5⁰5.2 5.4 5.7 6.4 5.0 4.8 5.0 5.1 6.0 6.1 7.0 7.0 6.7 6.5 6.5
50 41 22 19 11 9 12 16 19 21 23 24 37 505⁴5⁷ 5³4.7 5.1 5.2 5.9 4.6
50 35 23 19 115⁴4.3 4.6 4.8 5.8 5.9 6.4 6.4 5.8 5.0 5.3
8 12 17 20 21 22 24 37 505⁴3.7 3.8 5.3 4.3 4.0 3.5 3.8 3.9 4.5 4.4 5.1 5.1 4.3 4.1 5.1
38 22 19 15 11 8 12 14 19 21 23 24 41 505⁹5³3.1 3.2 2.7 4.6 3.5 3.3
35 28 23 19 16 115⁵2.9 3.3 3.3 4.3 4.3 3.1 4.0 4.9
8 19 21 22 24 42 505⁷6.5 6.0 6.6 7.8 6.8 6.7 6.4 6.6 7.2 8.1 8.6
50 25 23 19 14 12 8 24 43 505⁵5⁶ 5⁶6.6 6.6 6.0 7.8 7.8 6.8 6.7 6.2 6.4 7.6 9.3 9.6
50 36 24 20 18 15 12 8 50 100 1505⁰

Sta + π - Elev

962.24

46 +50

47

+50

48

+50

49

+37

+42

Lt

♀

Rt

54.7

55.1

56.2

7.5 7.1 7.5 8.1 7.0 6.7 6.0 6.4 6.4 7.4 7.2 6.8 6.4 6.5
 50 38 22 19 15 12 7 11 13 16 17 37 50

54.8

55.0

56.4

7.8 7.2 7.6 6.5 6.3 5.8 5.9 6.0 7.8 6.8 6.6 6.4
 50 35 19 15 12 8 10 14 17 33 50

54.5

54.9

56.6

7.8 7.3 7.0 7.5 6.4 6.1 5.6 5.7 5.7 7.2 6.9 6.7 6.2
 50 24 22 19 16 11 6 10 15 18 28 50

54.2

54.9

56.7

8.0 7.3 6.7 7.2 7.2 5.8 5.6 5.5 5.6 5.9 7.0 7.0 5.8 5.9 5.3 L.O.
 50 37 23 21 19 15 11 7 11 14 16 19 25 33

57.1

57.1

57.2

5.1 5.1 5.4 6.6 6.6 5.5 5.3 5.0 5.4 5.4 6.1 5.5 5.9 5.5
 50 40 22 20 18 16 12 7 11 14 17 33

57.4

57.4

57.6

4.6 4.8 5.1 4.9 4.6 5.0 5.2 5.5 4.7 4.5 3.7 4.8
 50 29 17 11 7 11 14 17 33 43 50

57.4

57.4

4.8 4.8 5.2 4.8 4.3 4.7 4.9 4.1 5.2 5.8
 50 30 17 11 8 15 31 42 50

56.4

60.0

3.8 2.2 2.2 5.3 4.8 4.6 4.3 4.7 4.9 5.3 6.2
 50 32 24 18 15 11 8 21 37 50

56 + * - Elev

962.24

49 +64

50

+22

+23

+28

51 +09

T.P. 2.18 959.34 5.08 957.16

+16

+44

L₁

E

R₁

41 34 2.2 2.4 53 45 4.2 46 50 34 5.3 7.2
 50 35 31 23 18 11 8 15 17 31 50

47 36 30 44 60 46 4.5 41 46 49 60 7.2 9.4 100
 50 33 30 22 18 13 11 7 11 14 16 33 50

51 45 6.5 7.0 51 46 4.2 4.8 7.9 8.8 9.1
 50 31 26 19 15 10 11 16 29 50

53 50 6.3 6.8 55 50 46 51 5.4 5.8 5.8 3.2 2.6
 50 30 25 18 15 11 7 11 14 21 25 50

6.2 5.7 6.6 6.6 5.8 5.2 4.9 5.5 6.2 1.7 10.4 11.7
 50 31 27 20 16 11 8 19 26 28 50

8.0 7.4 8.1 7.6 5.4 5.2 5.7 6.3 5.4 1.3 11.4 12.4
 50 31 28 18 12 8 17 22 28 29 50

5.9 5.4 5.9 5.3 5.1 3.4 2.7 2.4 2.9 3.4 2.7 2.0 15.5 1.0
 50 32 28 29 17 14 10 8 18 23 41 47

8.5 7.4 4.3 6.1 3.9 3.5 2.9 3.3 3.5 2.5 2.2
 50 27 22 18 14 11 8 18 29 50

Sta + I - Elev

959.24

51 +69

52

+37

+62.87 R Co. Rd B"

+87

53 +08

B.M. 2.89 957.82 443 954.91 (954.93)

+55

54

4.43

Lt.

£

Rt.

93 85 88 83 6.6 43 40 34 40 36 34
50 33 31 25 18 14 10 9 27 50

85 80 86 81 45 42 39 44 46 45
50 34 30 21 15 11 8 27 50

51 50 47 52 44 43 48 55 57 61
50 32 22 19 8 10 19 33 50

71 62 55 52 48 44 49 54 59 60 63
200 150 100 50 25 25 50 100 150 200

57 56 49 47 48 60 62
50 21 11 8 34 50

33 33 53 51 49 58 53 54
50 27 18 13 19 34 50

Top Mont Co. Ed. "B" & Home Line Ave.

2.9 20 24 40 35 30 33 30 29
50 34 29 18 13 9 26 50

43 36 32 45 39 32 35 37 41 39 2.9 1.9 1.4
50 36 30 20 14 9 15 17 22 24 28 50

Sta + π - Elev

957.02

54 +50

55

+50

56

+50

57

+50

58

Lt.

£

Pt.

53 47 49 41 36 40 42 46 26 22 1.7
50 35 27 13 9 15 17 23 32 50

6.3 5.5 54 47 41 43 45 51 46 37 2.6
50 34 18 13 9 12 14 23 25 50

71 65 62 52 46 48 50 56 43 3.3
50 36 18 13 9 12 17 24 50

7.4 6.6 6.4 55 49 51 56 46 42 3.9
50 32 20 13 10 16 23 37 50

81 72 68 58 53 55 60 42 31 2.4
50 32 17 12 9 17 21 33 50

8.4 7.6 7.2 6.4 5.8 6.0 6.3 4.5 3.5 2.2
50 33 16 11 10 17 21 31 50

91 8.4 8.2 7.2 6.6 6.6 6.7 7.2 5.5 5.1 4.3
50 33 20 11 10 13 17 22 38 50

10.5 9.9 9.0 7.7 7.2 7.3 7.5 7.8 5.9 5.5 3.7
50 37 14 11 9 13 18 22 30 50

Sta	+	π	-	Elev
		957.82		

58 +50

59

T.P.	2.69	952.14	837	949.45
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+50

60

+25

+64

61

+50

Lt

Z

Rt

11.4 99 85 82 78 7.9 81 87 6.9 55 47
50 24 14 10 9 14 17 22 30 50

11.1 107 99 86 84 85 86 9.2 7.7 45 57
50 40 22 10 9 16 17 22 35 50

3.4 37 41 3.6 3.3 3.3 32 18 1.5
50 18 15 9 10 21 38 50

4.8 43 3.9 4.4 4.1 3.8 4.0 4.1 4.5 3.6 3.0 2.1
50 35 18 16 10 9 14 19 24 29 50

5.4 4.6 4.3 4.9 4.7 4.3 4.5 4.7 5.7 4.4 2.9 2.5
50 34 19 16 11 9 15 19 21 36 50

6.6 5.7 5.4 5.8 5.5 5.3 5.4 5.4 6.1 5.0 4.2 3.1
50 35 20 15 11 9 15 18 21 31 50

8.0 7.0 6.9 6.6 6.3 6.4 6.3 6.8 6.8 6.2 5.0 3.9
50 29 15 11 8 15 18 20 22 30 50

10.7 10.0 8.3 8.0 8.0 8.1 8.7 7.3 6.4 5.3
50 23 11 8 13 20 25 32 50

Sta	+	π	-	Elev
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		952.14		
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62

+50

FP

63

TP	335	943.77	1172	940.42
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+50

64

+50

+70 XDrain only

65

L†

E

L†

126 118 115 98 95 96 96 100 87 75 72
 50 31 23 11 8 16 18 24 37 50

146 137 132 129 114 111 107 108 108 95 87
 50 29 25 19 14 11 9 18 31 50

160 146 148 125 121 116 115 117 111 100
 50 25 18 14 11 9 18 29 50

82 80 74 44 42 38 38 24 45 37
 50 36 18 13 9 9 16 32 50

92 88 81 48 46 41 42 45 45 44 56 52
 50 28 20 13 10 9 15 21 25 28 50

97 95 91 50 49 45 47 48 48 73 69 60 51
 50 39 23 14 9 10 14 20 23 27 31 50

FL. GUN

(FL. GUN

97 91 87 52 50 45 49 53 79 75 63 52
 50 33 19 14 9 10 15 17 23 27 50

95 91 79 55 52 46 50 51 70 73 63 52
 50 26 19 14 10 11 14 20 27 29 50

Sta. + π - E/cv

943.77

65 109 = End 4" Tile Rk.

+50

66

+42

B.M. 2.94 943.64 306 940.71 (940.70)

+64

+ = ESTH. 36

67

+30

Lt

E

Rt

7.2 3
29

89 88 56 53 48 51 54 70 73 43 50
50 25 17 10 11 15 21 27 32 50

79 79 69 52 51 47 51 65 63 62 48
50 30 21 13 10 12 17 32 33 50

65 61 41 42 51 45 49 38 48 46
50 39 27 24 21 19 24 32 50

Spt. in P.P. 27 Lt sta. 68 + 70

49 46 43 44 44
50 25 25 50

5.2 5.0 4.8 4.5 4.1 4.0 3.7 3.5 3.1
200 150 100 50 50 100 150 200

4.8 4.5 4.2 4.3 4.5
50 25 25 50

56 63 62 55 38 38 47 44 47 34 38 36
50 47 38 27 22 20 17 16 19 33 50

Sta.

+

x

-

E/6x

943.64

67 +50

+65

68

+50

+82

69

+36

+67

11-4-41
K.H.
L.G.
M.B.
C.F.

Lt.

£

pt.

51 45 58 57 49 44 48 52 44
50 35 27 19 14 11 22 50

60 46 42 60 61 51 50 45 49 56 56 46 43
50 35 27 23 20 17 11 14 19 24 38 50

65 53 49 62 60 52 50 46 49 51 60 60 52 46 46
50 35 25 28 19 17 12 10 13 17 23 27 40 50

59 49 45 64 64 52 49 45 47 49 63 61 49 45 46
50 37 26 23 21 17 11 9 13 19 23 27 42 50

42 46 63 63 53 50 46 48 49 64 63 ⁴⁷ 39 39
50 26 23 21 16 11 9 12 19 22 28 36 50

48 53 62 62 54 52 48 49 53 64 65 45 36
50 26 23 20 16 11 8 14 17 21 28 50

61 63 62 62 58 54 51 53 54 59 56 64 52 45
50 42 33 21 18 11 8 12 15 18 22 26 50

50 62 64 62 56 53 54 56 68 68 64 58
50 38 33 22 11 8 14 16 18 23 50

Sta	+	π	-	Elev.
		943.64		

70

+50

71

+34

+56

72

I.P.	7.30	945.35	559	938.05
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+50

73

L.f.

E

R.f.

30	40	47	61	56	54	55	56	74	78	72
50	42	31	25	11		8	14	20	29	50

11	25	29	48	50	57	56	55	55	57	82	86	85
50	37	32	28	24	20	11		8	14	22	37	50

12.0	0.6	41	57	51	50	53	62	80	91
50	31	27	17	11		8	17	25	50

12.8	11.9	4.6	52	50	49	53	56	80	9.9	10.8
50	32	25	17	12		10	16	23	37	50

12.3	11.3	47	54	52	51	55	59	90	105	11.4
50	33	25	16	12		9	17	23	36	50

12.2	11.6	0.2	49	49	60	57	56	61	6.8	10.9	12.6	12.8
50	32	27	22	18	11		9	16	24	36	50	

0.4	26	6.9	70	81	7.8	77	81	87	131	141	152
50	32	27	22	17	11		9	15	24	33	50

1.8	31	15	7.7	86	81	7.9	8.3	8.9	121	133	141
50	33	27	23	18	12		9	16	24	33	50

Sta	+	π	-	Elev
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		945.35		
--	--	--------	--	--

73	+33			
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	+63			
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74				
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	+33			
--	-----	--	--	--

	+71			
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75				
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	+41			
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	+64			
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Lt

4

Pt.

30 15 41 77 79 86 83 81 85 90 106 114 139
50 50 32 28 23 20 12 9 17 24 29 50

4.3 5.6 83 87 91 86 85 88 96 118 128 134
50 32 28 23 19 13 8 18 26 37 50

5.7 7.4 91 92 100 93 91 95 101 125 133 142
50 50 31 29 24 20 12 9 19 26 32 50

7.0 8.9 9.6 101 103 98 95 99 105 131 140 146
50 31 29 23 19 13 8 16 25 34 50

9.9 11.0 11.0 108 103 101 98 100 104 121 129 125
50 36 33 20 16 13 8 14 19 31 50

11.8 12.0 11.7 11.0 11.4 10.5 101 9.9 10.1 10.5 11.5 11.5 11.0
50 45 33 24 20 18 14 8 13 23 38 50

10.6 9.3 8.8 11.0 10.9 10.5 10.4 10.5 10.8 10.2 9.0 9.8
50 35 31 26 18 12 8 17 23 28 50

9.5 8.6 7.8 10.7 11.3 11.0 10.8 10.9 11.3 10.7 9.7 9.6 8.2 9.0
50 34 32 27 21 12 8 18 20 24 28 31 50

Sta	+	π	-	Elev
		945.35		

76

+50

77

+32

T.P.	124	933.12	1347	931.88
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+62

78

+25

+64

LT

2

RT

94 88 86 11.5 119 122 117 114 115 119 107 105 80 83
50 34 33 28 23 21 13 8 17 20 25 31 50

105 91 134 134 127 124 126 129 122 119 93 63 68
50 32 25 21 13 9 15 17 21 28 34 50

128 113 148 146 138 135 136 139 139 128 56 61
50 33 25 20 13 7 14 17 21 38 50

168 153 147 142 154 148 144 146 148 154 140 78 79
50 36 30 26 21 12 8 13 17 22 35 50

79 56 48 45 49 38 33 31 33 25 41 34 106 110
50 35 32 29 25 19 12 8 13 16 22 34 50

93 78 69 69 52 47 45 42 45 46 50 38 45
50 36 32 28 20 15 12 8 12 22 31 50

97 91 86 82 63 55 52 50 53 55 60 78 82
50 34 31 27 20 15 12 8 13 18 30 50

117 111 110 76 67 62 59 62 65 112 120 118
50 34 30 22 18 12 8 14 23 37 50

Sta + π - E/GK

933.12

79

+40 For X.Drain

B.M. 6.12 932.86 6.32 926.80 926.74

+50

80

+15

+57

81

+50

T.P. 12.91 943.94 - 1.83 931.03

Lt

C

Rt

26.1

13.5 13.6 8.8 7.4 6.9 6.4 6.5 7.0 8.4 13.9 15.0 15.6
 50 33 25 18 12 8 12 18 27 38 50

FL. C. 1/4
 18" 4' Ext.

FL. C. 1/4

13.5 13.5 14.5 8.8 7.9 7.2 6.6 6.8 7.5 8.9 12.6 14.0 14.8 16.0
 50 38 30 23 18 12 8 13 18 24 30 35 50

Top Mont. & Sta. 79+

13.3 12.9 8.7 7.6 7.0 6.4 6.6 7.1 8.5 13.6 15.1 16.0
 50 31 24 18 12 8 13 19 29 38 50

10.9 12.3 12.1 8.3 7.5 6.7 6.2 6.4 6.9 8.1 15.1 15.8
 50 35 30 22 17 12 8 13 18 31 50

9.2 10.3 11.0 8.3 7.0 6.6 6.2 6.3 6.9 8.1 13.6 13.9
 50 42 29 23 16 12 8 13 19 29 50

4.9 5.4 6.1 6.7 6.2 5.9 5.5 5.6 5.9 6.8 8.7 10.2 10.9
 50 35 22 20 15 11 9 13 20 26 40 50

1.1 1.9 2.7 5.3 5.0 4.7 4.8 5.0 5.7 5.2 5.2
 50 37 22 18 11 9 14 19 26 50

1.5 1.4 1.3 3.4 3.5 3.2 3.4 3.7 2.5 1.4 1.6
 50 40 21 18 11 9 16 23 37 50

Sta	+	X	-	Elev
		948.94		

82

+25

+65

83

+10

+30

+60

84

Lt.

L

Rt.

14.0 12.9 12.5 13.0 13.5 13.2 12.9 13.1 13.4 11.8 11.4 11.6
50 31 23 21 14 11 9 17 24 36 50

14.9 14.2 14.3 13.1 12.7 13.2 12.7 12.4 12.8 13.1 12.8 11.7 11.6
50 45 32 27 19 17 11 10 14 20 31 50

14.9 14.0 12.6 12.3 12.6 12.1 11.7 11.9 12.4 12.0 11.4
50 35 30 21 17 11 9 17 33 50

10.7 10.7 11.1 11.8 12.0 11.5 11.1 11.3 11.5 12.0 12.5 11.6
50 37 28 24 17 12 9 12 14 23 50

9.5 9.7 10.1 11.1 11.7 11.3 11.0 11.2 11.3 11.8 12.9 14.2 14.6
50 37 30 26 18 12 9 12 15 24 34 50

7.1 7.0 9.9 10.4 11.2 10.7 10.6 10.9 11.5 13.4 14.8 15.6
50 33 26 21 18 12 9 19 25 38 50

5.1 4.6 9.7 10.1 10.9 10.6 10.5 10.1 10.5 10.6 11.1 10.7 11.5 13.6
50 32 25 21 18 15 12 10 13 20 22 34 50

4.8 5.2 9.3 9.8 10.4 10.1 9.8 9.5 9.9 10.2 9.2 9.5 10.9
50 32 24 21 17 14 11 11 20 23 32 50

Sta.	+	π	-	Elev.
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		943.94		
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84	+20			
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	+55			
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85	+80			
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85				
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	+50			
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86				
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	+50			
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	+78			
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TP	214	932.30	13.78	930.16
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Lt

C

Rt

44 53 91 78 103 98 96 93 98 102 92 91 106
50 31 25 20 17 15 11 10 20 23 28 50

2.3 3.2 8.8 9.4 10.1 9.6 9.9 9.2 9.5 9.9 9.1 11.7
50 31 25 20 18 15 11 10 17 27 50

1.9 2.5 8.6 9.0 9.9 9.6 9.5 9.2 9.5 9.8 9.3 9.2 12.2
50 33 25 21 19 14 11 10 17 23 27 50

1.8 3.1 8.7 9.2 10.0 9.8 9.6 9.3 9.6 9.9 9.6 10.1 12.7
50 32 26 20 18 14 10 10 16 23 32 50

48 68 95 9.7 10.3 10.2 10.0 9.9 10.2 10.7 13.0 15.6
50 29 24 22 19 14 10 9 18 28 50

78 8.4 10.9 10.9 10.8 10.7 11.1 11.4 12.2 14.2
50 26 21 15 9 10 18 34 50

8.1 8.8 12.7 12.3 12.1 12.4 12.1 11.3 11.7
50 26 18 9 10 14 32 50

8.8 9.3 13.5 13.3 13.1 13.3 13.0 11.6 11.2
50 28 19 10 8 18 34 50

Sta	+	π	-	Elev
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		932.30		
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87				
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	+50			
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88				
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	+50			
--	-----	--	--	--

89				
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	+50			
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90				
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FP				
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	+50			
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TP				
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	3.69			
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		923.27		
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			12.72	
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				919.58
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Lt.

4

Et.

07 1.1 1.6 2.5 2.3 2.1 4 2.4 2.5 2.2 0.8 4.03
 50 35 23 18 9 9 15 21 30 50

4.3 4.1 4.2 4.2 3.7 3.7 3.8 3.4 1.6 0.8
 50 29 18 11 9 16 20 33 50

5.6 6.0 5.5 5.8 5.6 5.1 5.3 5.1 4.4 4.1
 50 33 30 25 10 9 19 35 50

7.4 7.8 7.2 7.0 6.6 6.8 6.9 6.9 6.2
 50 31 27 10 9 13 26 50 = Bananas by Fewer

9.0 9.5 9.1 8.4 8.7 8.4 8.1 8.3 8.8 9.8 9.5 9.1
 80 38 30 23 17 10 10 23 27 37 50

10.4 11.3 11.4 10.2 9.8 9.5 9.6 9.8 10.4 11.9 11.6 11.4
 50 42 33 19 10 10 13 18 28 37 50

11.8 12.5 12.1 11.4 10.9 10.6 10.7 10.9 12.7 13.0 13.0
 50 44 23 17 10 10 13 23 33 50

13.3 13.8 13.1 12.4 12.0 11.8 11.9 12.0 13.5 13.7 13.6
 50 47 23 15 10 9 12 19 28 50

Sta	+	π	-	Elev
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		923.27		
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91				
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	+50			
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B.M.				
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		2.66	920.61	
--	--	------	--------	--

92				
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	+50			
--	-----	--	--	--

93				
----	--	--	--	--

	+50			
--	-----	--	--	--

94				
----	--	--	--	--

	+50			
--	-----	--	--	--

Lt

L

Rt

55 58 48 48 42 49 37 39 42 54 57 55
50 40 34 20 15 9 10 15 22 36 50

66 72 67 50 ⁴⁸ 48 43 45 48 59 62 63
50 29 18 14 10 10 14 19 32 50

Top Breather Pipe 29 Rt 50 91 95

82 79 65 55 50 47 48 50 66 71 72
50 40 20 14 10 10 13 20 26 50

77 71 67 57 53 49 51 53 67 67 61 57 58
50 35 20 15 10 10 13 20 22 23 37 50

76 74 74 58 54 48 51 52 56 64 60 61
50 39 24 15 10 11 13 16 21 32 50

70 69 62 55 51 46 49 51 53 66 63 65
50 37 27 15 11 11 14 16 21 32 50

67 63 51 49 44 48 50 58 57 58
50 33 19 10 11 16 22 33 50

63 59 55 49 44 47 50 62 66 65
50 35 22 16 11 16 22 34 50

S/L	+	π	-	Elev
		923.27		

95

+50

96

+50

T.P.	8.07	926.80	4.54	918.73
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97

+50

98

+30

L^f

k

R^f

7.0 6.9 5.6 5.1 4.6 4.8 4.9 5.2 5.8 5.5
50 36 18 11 11 16 22 27 50

7.1 7.2 6.6 5.7 5.2 4.7 5.0 5.1 4.8 5.6 5.5
50 38 22 16 10 10 15 22 27 50

6.7 6.7 6.2 5.5 5.1 4.7 5.1 5.3 6.7 7.3
50 36 21 16 10 11 14 24 50

5.8 6.4 5.9 5.3 5.1 4.7 5.0 5.3 7.1 7.4 7.4
50 29 19 14 5 11 16 21 35 50

9.1 9.3 9.7 9.3 8.7 8.4 8.1 8.4 8.7 10.2 10.5 10.3
50 31 27 18 14 10 11 16 21 36 50

10.7 10.6 11.1 8.9 8.5 8.0 8.4 8.6 8.9 12.4 12.9
50 29 23 14 9 11 14 16 26 50

12.3 12.1 11.7 8.8 8.2 7.9 8.2 8.6 10.0 12.7 12.6
50 36 24 15 9 10 14 29 27 50

12.6 12.0 11.6 8.3 8.0 7.6 8.0 8.3 11.9 12.2 11.6
50 39 25 13 8 11 14 24 38 50

Sta	+	π	-	Elev.
		926.80		

98 +58

+90

99

+50

+56

100

+12

+30

Lt

E

Rt

12.4 11.9 9.0 8.0 7.7 7.2 7.4 7.6 10.2 10.2 10.3
 50 28 19 13 9 10 14 23 37 50

12.0 11.0 8.2 7.8 7.2 6.7 6.9 7.2 9.0 8.7 9.2
 50 33 24 16 10 10 15 21 39 50

9.4 8.2 8.0 7.4 7.1 6.5 6.7 7.0 8.3 8.6 8.6
 50 40 29 16 10 11 14 19 28 50

6.2 6.0 6.3 6.8 6.8 6.0 5.7 5.4 5.6 6.0 6.3 6.9 6.9
 50 33 22 20 18 13 9 11 16 26 38 50

5.7 5.4 6.0 6.6 6.6 5.9 5.5 5.2 5.4 5.6 6.0 6.0 5.2 4.9
 50 32 22 19 17 15 9 10 14 18 26 28 50

4.0 4.1 4.0 4.2 3.7 3.9 4.1 3.7 4.2
 50 29 13 10 11 21 24 50

2.3 1.7 2.0 3.9 4.0 3.9 3.3 3.5 3.8 3.6 3.9
 50 29 21 17 13 9 11 19 24 50

0.9 0.9 1.2 3.6 3.4 2.8 3.0 3.1 1.7 1.8 2.4
 50 37 22 16 9 11 16 23 35 50

Sta.	+	π	-	Elev.
		926.80		

100 +60

101

+40

I.P.	3.75	929.50	1.05	925.75
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+56

+68

102

+50

103

Lt

E

Rt

03 04 11 27 27 22 24 23 13 09 09
50 31 22 16 9 11 18 22 37 50

40.1 0.0 0.5 22 22 18 21 2.2 08 06 1.0
50 32 21 15 9 12 18 27 39 50

41.0 40.5 0.2 19 19 1.5 2.0 2.2 1.2 1.3 3.2
50 35 22 13 8 13 19 23 27 50

Top S.E. Cor. Upper Step.

34 40 41 45 42 47 49 42 53 64
50 31 14 7 15 19 23 35 50

1.2 1.4 2.3 4.3 46 43 48 50 46 40 6.7
50 34 18 14 8 14 19 24 27 50

1.0 1.7 2.4 4.7 49 44 50 52 4.9 6.0 7.8
50 29 19 14 8 14 20 24 33 50

1.2 2.4 3.1 5.5 5.1 5.2 4.9 5.3 5.4 7.6 9.4 10.8
50 30 18 15 12 8 14 20 28 43 50

1.9 3.3 4.5 6.0 5.7 5.4 5.2 5.1 5.7 5.5 9.9 11.0 11.8
50 30 20 14 11 4 6 14 18 30 38 50

Sta.	+	π	-	Elev.
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929.50

103 +50

+82

+95

104

+07

+13.7 Top Rail

6.21

+18.7 Top Rail

6.25

+27.7 Top Rail

6.10

Lt.

Q

Rt.

1.8 2.8 4.1 5.4 5.6 5.3 5.7 5.3 5.7 10.0 11.0 12.1
50 36 22 18 5 13 16 20 28 37 50

1.9 3.1 4.4 5.9 5.8 5.7 6.0 5.8 6.4 9.6 10.4
50 33 19 13 6 13 18 25 38 50

1.7 3.0 5.4 6.2 6.0 6.0 6.3 6.2 8.9 7.0
50 30 18 13 6 13 29 38 50

2.5 3.5 5.2 6.0 6.0 6.0 6.1 6.3 6.3 5.6 5.6 8.7 6.8 8.1
50 28 16 13 6 7 13 19 23 32 38 43 50

FL. CULV

FL. CULV

6.8 7.6 8.3 6.0 6.1 6.1 6.3 6.4 8.9 8.7 7.7 8.2
50 29 12 11 6 13 18 21 26 42 50

Sta	+	π	-	Elev.
		929.50		
104	+32.6		6.12	
	+27			
	+61			
	+77			
105				26.0
	+17			26.4
				26.4
		E. Co. Rd. "G." Lt.		
B.M.			3.11	926.39
				(926.39)
	+63			26.2

Lt.

C

Rt.

6.6 6.7 6.4 6.0 6.1 6.2 6.8 7.7
50 31 13 7 13 25 50

4.8 4.1 3.9 4.4 5.1 5.1 4.9 5.3 5.6 5.1 6.4
50 41 27 17 11 8 13 23 28 50

2.8 2.8 3.7 4.3 4.5 4.2 4.6 5.0 4.9 5.5
50 36 18 14 8 14 21 27 30

2.7 2.8 3.2 3.8 3.8 3.7 3.5 4.0 4.3 4.2 5.0
50 39 21 17 14 7 13 20 30 50

2.7 3.0 3.6 3.5 3.2 3.1 3.7 3.9 3.5 4.8
50 41 32 27 11 13 20 25 50

2.0 2.4 2.7 2.9 3.1 3.4 3.7 4.0
150 100 50 25 13 24 50

Top Mount Hamline Ave. & Co. Rd. 6"

4.0 3.9 3.9 3.4 3.3 3.6 4.0 4.4 3.8 4.5
50 28 19 8 13 25 29 35 50

Sta.	+	π	-	Elev.
		929.50		
106				25.9
	+50			25.7
107				26.0
	+50			26.2
I.P.	2.80	928.64	3.66	925.84
108				25.8
	+50			25.1
109				24.5
	+50			24.3

Lt

Q

Rt

61 58 52 44 49 36 39 42 49 44 49
50 32 17 13 7 14 23 28 30 50

73 71 60 45 41 38 41 45 52 58
50 28 18 13 7 14 23 33 50

64 52 42 41 40 35 39 37 42 50
50 28 24 16 8 13 23 36 50

50 38 30 33 38 37 33 37 39 33 40 45
50 29 24 20 15 8 13 18 22 27 50

38 35 30 28 35 31 28 32 34 34
50 31 29 22 15 8 14 35 50

44 38 40 49 41 39 35 39 42 47 45 47
50 28 24 19 16 8 13 19 26 43 50

49 44 49 49 46 44 41 45 49 55 59 63 63
50 29 25 17 15 8 14 17 20 40 42 50

47 44 46 45 43 47 51 63 66 74 76
50 29 15 8 13 18 29 38 43 50

Sta.	+	π	-	Elev
		928.64		

110				24.1
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+50

111

+50

112

+50

+78.92 & Co. Rd. E"

113

Lt

R

Rt

4.1 3.7 4.2 4.9 4.9 4.5 5.1 6.3 6.5 7.3
50 28 22 16 8 13 24 40 50

4.0 4.3 4.9 4.8 4.5 4.6 5.2 5.7 6.7 7.3 7.7
50 35 19 9 5 12 17 24 40 50

4.0 4.2 3.9 5.1 5.0 4.5 4.6 5.1 5.9 5.9 6.1
50 33 26 16 9 5 12 21 30 50

4.4 4.5 3.9 4.3 5.4 5.3 4.9 5.4 5.9 5.9
50 37 32 23 17 9 12 28 50

5.0 5.5 5.1 6.3 6.1 5.8 5.9 6.3 6.7 6.3 6.1
50 40 32 18 9 5 12 19 38 50

5.5 5.2 7.0 7.0 6.6 6.3 6.5 7.0 7.1 7.1
50 35 26 17 9 11 21 31 50

5.8 5.4 7.6 7.1 6.9 6.5 6.8 6.9 7.0 7.0
50 35 26 14 11 25 50 100 150

6.2 5.9 7.8 8.2 7.3 7.1 6.8 7.1 7.6 7.7
50 35 28 21 13 8 14 25 50

Sta.	+	π	-	Elev.
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		928.64		
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113	+50			
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114				
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T.P.	0.12	921.15	7.61	921.03
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	+50			
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115				
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	+50			
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	+68			
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116				
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	+25			
--	-----	--	--	--

Lt

E

Rt

7.4 7.1 7.8 9.1 9.0 8.1 7.8 7.4 7.8 8.0 8.8 9.3 9.7
50 36 27 24 18 15 10 10 14 20 37 50

8.3 7.5 8.0 9.5 9.4 8.3 8.0 7.6 8.1 8.3 8.5 8.4
50 34 27 23 19 16 10 11 17 29 50

2.0 1.7 1.3 2.4 1.7 1.2 1.0 0.6 1.1 1.1 1.4 0.7 0.9
50 40 25 20 18 15 11 12 15 20 34 50

2.2 1.9 2.5 2.4 2.0 1.8 1.4 1.8 1.3 2.2 1.5 1.5
50 26 22 19 15 11 11 15 20 32 50

2.2 2.4 3.0 2.8 2.5 3.1 3.2 3.4 2.9 3.3
50 26 23 11 12 17 20 38 50

2.5 3.0 3.6 3.9 3.7 3.2 3.0 3.6 4.0 3.5 3.6
50 25 23 20 17 10 12 20 34 50

4.7 4.9 5.1 5.3 4.7 4.3 4.0 4.6 5.0 4.5 4.9
50 44 26 23 16 10 11 20 26 50

5.2
7.2 7.2 7.7 7.2 6.0 5.4 5.0 4.8 5.2 5.3 5.8 5.2 4.8
50 30 27 22 21 17 10 10 17 20 27 50

Sta	+	π	-	Elev
		921.15		

16 +50

+68

+82

17

+40

18 +70

P.M.	3.08	916.05	8.18	912.97
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18

+50

Lt

L

Rt

8.3 8.6 9.2 9.3 6.7 6.0 5.6 5.3 5.8 5.9 6.3 5.4 5.2
 50 30 28 24 20 16 10 10 17 20 34 50

8.9 8.6 9.5 9.4 6.8 6.1 5.7 6.1 6.2 6.7 5.7 5.6
 50 30 28 23 18 10 10 17 22 37 50

9.8 9.9 9.2 7.0 6.5 6.1 6.5 6.8 7.2 6.2 6.1
 50 30 24 18 11 11 17 20 33 50

9.5 9.2 9.9 9.9 8.1 7.5 6.9 6.6 7.1 7.2 7.6 7.0 6.4 6.6
 50 30 27 23 20 18 10 10 17 20 26 37 50
 18

8.9 9.5 9.7 9.8 8.3 7.9 7.7 8.1 8.1 8.6 7.7 7.6
 50 36 30 21 15 10 8 18 21 30 50
 10

8.2 9.2 9.9 10.4 10.3 9.1 8.6 8.4 8.7 8.9 9.3 9.0 8.8
 50 34 26 24 20 17 10 10 18 20 25 50

R.R. Spk. in P.R. Lt stg 117+

3.3 3.7 6.0 5.9 4.6 4.0 3.8 4.2 4.4 5.7 5.5 5.1
 50 33 29 24 19 11 10 14 20 29 50

3.9 5.0 6.2 6.0 4.9 4.7 4.5 4.8 5.0 7.0 7.9 7.3
 50 33 30 23 20 10 9 14 20 33 50

Sta.	+	π	-	Elev.
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		916.05		
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119				
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	+48			
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	+50			
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120				
-----	--	--	--	--

	+50			
--	-----	--	--	--

121				
-----	--	--	--	--

	+50			
--	-----	--	--	--

122				
-----	--	--	--	--

Lt.

2

Rt.

60 58 63 66 52 49 45 49 49 70 77 81
50 30 27 23 20 11 8 14 19 34 50

56 54 62 61 50 49 45 48 51 68 72 76 74 82 2
50 30 27 23 20 11 9 14 18 23 30 42 50

Duplicate 148 51 68 72 83 83 76 74 82
14 18 23 25 29 30 42 50

64 58 62 60 51 47 44 48 49 57 66 85 85 68 76
50 29 28 23 21 11 9 12 17 21 25 30 33 50

70 67 63 49 47 44 47 49 56 86 84 61 65 71
50 27 24 21 12 8 12 17 24 29 34 40 50

65 64 60 51 49 45 48 52 57 63 87 87 61 56 66
50 33 24 21 11 7 12 16 17 23 28 34 39 50

66 69 65 53 49 45 48 50 53 61 86 87 52 49 53
50 34 23 10 11 8 11 17 18 22 27 34 42 50

76 74 69 52 49 45 47 51 88 87 52 50 58
50 33 22 16 11 8 17 22 27 33 41 50

Sta	+	π	-	Elev.
		916.05		

122 +22

+34 X Drain

+50

123

T.P.	5.85	918.61	3.29	912.76
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+50

124

+30

+65

L.F.

R

R.F.

7.8 7.4 6.7 5.2 4.7 4.3 4.6 5.2 9.0 8.9 5.0 5.2
50 35 23 19 12 7 17 22 26 34 50

FL. CULV

FL. CULV

9.3 9.2 9.6 8.5 8 4.7 4.3 4.5 5.0 9.4 8.8 5.4 5.7
50 24 24 19 12 7 17 22 27 33 50

6.3 5.9 4.9 4.4 4.1 4.4 4.4 5.0 5.4 5.4
50 38 19 12 8 12 17 32 50

4.6 4.6 3.9 4.2 3.7 3.5 3.7 4.0 4.3 4.3 4.3
50 36 29 24 11 7 15 21 34 50

6.6 5.6 6.2 5.8 5.8 5.4 5.7 5.7 5.9 5.2 5.1 5.3
50 31 24 21 12 8 11 14 19 34 50

5.7 4.9 5.4 5.3 4.9 5.1 5.3 4.8 3.5 3.1 3.3
50 32 25 13 7 11 16 19 31 50

5.5 4.7 5.3 5.1 4.7 4.9 4.8 3.6 3.7 2.8 2.3 2.3
50 31 25 12 8 12 15 17 19 33 50

5.2 4.2 5.2 5.0 4.5 4.7 4.7 3.7 3.6 3.0 2.6 2.5
50 32 24 12 7 9 15 17 19 32 50

Sta.	+	π	-	Elev.
------	---	-------	---	-------

		918.61		
--	--	--------	--	--

125				
-----	--	--	--	--

	+32			
--	-----	--	--	--

	+64			
--	-----	--	--	--

126				
-----	--	--	--	--

	+50			
--	-----	--	--	--

127				
-----	--	--	--	--

	+46			
--	-----	--	--	--

	+50			
--	-----	--	--	--

Lt.

E

Rt.

40 37 49 48 46 48 45 39 34 37
50 33 25 12 8 10 12 16 29 50

30 32 50 49 46 47 48 40 48 52 55
50 35 23 12 7 10 16 25 38 50

38 36 44 52 50 48 49 49 43 43 47 55 62 66
50 36 28 20 12 8 10 13 16 18 26 37 50

43 41 49 32 54 51 51 52 50 51 58 68 80
50 34 27 21 13 7 9 11 15 17 25 50

63 53 57 58 57 54 55 56 60 68 77 83
Bingo = 50 31 26 19 11 7 12 15 16 30 50
by FOWER.

66 59 63 61 58 60 62 77 85 92
50 29 24 12 7 12 16 26 50

Duplicate + 50

61 64 67 86 87 88 92
7 11 17 19 31 50

83 83 71 74 73 69 66 61 64 67 89 102 100 88 92
50 42 31 28 24 21 12 7 11 19 22 29 31 50

Sta	+	π	-	Elev
-----	---	-------	---	------

		918.61		
--	--	--------	--	--

128

+13

+19

+23

+60

T.P.	7.39	919.66	6.34	912.27
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129

+50

130

Lt

R

Rt

10.1 9.0 7.9 7.3 7.0 6.6 7.0 7.1 8.9 9.1 10.6 10.5 9.2 9.4
50 28 24 19 21 7 14 18 21 24 29 32 50

9.7 9.7 10.8 10.7 10.0 7.6 6.9 6.7 7.0 7.2 8.5 9.1 10.4 10.7 9.3 9.1 9.7
50 46 38 34 29 23 11 7 12 17 20 24 29 32 40 50

FL. Culv

FL. Culv

9.4 9.4 10.8 11.3 7.6 7.0 6.7 7.1 7.3 8.6 8.7 10.8 10.5
50 40 33 30 24 12 7 12 17 21 25 50

9.5 9.0 7.6 7.0 6.7 7.0 7.2 8.8 9.5 9.9
50 28 25 12 7 11 17 31 50

9.2 9.3 8.4 8.7 8.5 7.4 7.0 6.6 6.9 7.2 8.2 8.9 9.3 9.3
50 40 32 30 25 23 13 7 10 15 17 32 50

7.9 8.4 9.2 8.7 7.9 7.7 7.4 7.7 7.6 8.3 9.4 9.5 9.8
50 44 39 24 21 12 7 11 15 18 31 50

6.5 6.8 6.9 6.9 6.5 6.8 6.7 7.2 7.7 7.8 8.0
50 36 17 13 8 12 15 17 31 50

5.2 5.5 5.9 6.1 5.8 6.1 6.1 6.4 6.8 6.7
50 33 23 13 7 16 17 32 50

Sta.	+	π	-	Elev.
		919.66		
130	+50			
131				
	+35			
	+54			
B.M.			4.79	914.87 (914.88)
	+68			
132				
	+50			
T.P.	5.34	921.78	3.22	916.44
133				

Lt.

Q

Rt.

46 51 58 59 57 59 5.7 6.2 6.5 6.9 7.2
50 32 26 12 8 12 14 19 32 50

48 54 58 54 55 56 6.2 6.9 7.3 7.9
50 25 13 7 12 17 18 28 50

48 53 55 51 52 54 64 7.3 7.1 6.9
50 28 14 8 14 18 20 37 50

46 4.9 54 52 48 50 56 6.2 6.4
50 29 20 13 7 17 26 50

Top Mont Q 131 + 56.20

57 6.6 6.2 52 49 46 48 51 6.4 4.6
50 36 26 18 14 7 18 24 50

54 57 57 45 42 41 43 46 6.3 6.3 5.1 4.7
50 36 25 20 13 8 20 26 28 32 50

1.6 1.5 5.1 4.1 3.9 3.5 3.7 4.0 5.4 5.4 2.7 2.6
50 32 27 20 14 8 21 26 28 32 50

2.0 2.0 2.0 6.5 6.0 5.5 5.3 5.6 5.8 7.3 7.3 4.0 3.9
50 40 33 26 21 13 9 20 25 27 32 50

Sta.	+	X	-	Elev.
		921.78		

133 +50

+60

134

+50

135

I.P.	4.06	921.23	4.61	917.17
------	------	--------	------	--------

+50

136

+50

Lt.

K

Rt.

1.9 1.9 6.6 5.6 5.3 5.0 5.3 5.4 6.8 6.8 3.1 2.7
50 34 28 21 13 9 20 24 26 31 50

2.4 1.9 6.6 5.7 5.3 5.0 5.2 5.1 3.9 2.9
50 34 28 21 13 9 17 32 50

2.1 2.2 6.2 5.6 5.3 4.9 5.2 5.4 5.4 4.3 2.9 2.4
50 33 27 21 12 10 20 23 31 41 50

2.4 2.8 5.9 5.4 5.0 4.8 5.0 5.1 5.8 5.8 4.9 3.1 2.2
50 33 28 21 12 10 22 25 27 29 33 50

1.8 1.7 5.8 4.9 4.7 4.4 4.6 4.9 6.0 5.0 2.8 2.4
50 35 25 20 13 10 20 25 29 33 50

N. End Cule Rt 134 ft

0.5 0.6 5.3 5.3 4.2 3.9 3.6 3.9 4.1 5.4 5.4 4.5 2.7 3.4
50 34 28 25 21 12 11 20 26 29 31 35 50

2.1 2.7 2.7 5.5 5.5 4.5 4.2 3.9 4.1 4.3 5.6 5.0 6.0
50 43 33 27 25 21 11 11 21 27 36 50

4.2 4.5 4.8 5.9 5.9 5.0 4.6 4.2 4.3 4.6 7.4 7.5 6.8 6.4 7.1
50 43 30 28 26 23 12 11 21 28 32 34 38 50

Sta.	+	X	-	Elev.
		921.23		

137

+40

+70

138

+50

+90

139

+22

Lt.

2

Rt.

5.0 5.3 5.7 6.6 4.6 5.1 4.7 4.4 4.5 5.0 8.3 8.3 7.2 7.2 8.8 9.1
 50 40 27 28 25 20 11 11 23 29 31 34 39 44 50

5.5 5.9 6.5 7.0 5.3 4.9 4.7 4.8 5.1 8.9 10.3 10.9
 50 43 35 26 21 10 12 22 31 39 50

6.2 6.8 7.9 8.2 7.9 5.3 5.1 4.8 5.0 5.3 6.4 9.9 10.3
 50 44 34 32 28 21 11 13 21 25 32 50

6.5 7.6 7.5 5.3 5.2 4.9 5.0 5.5 7.8 8.7
 50 36 28 21 10 12 23 28 50

7.7 7.7 7.8 5.7 5.4 5.2 5.4 5.7 7.8 7.8 5.0 9.8 5.7
 50 39 27 21 9 12 23 27 29 37 41 50

9.3 8.7 7.6 5.9 5.6 5.4 5.5 5.8 6.9 6.9 2.9 3.2
 50 36 26 21 8 13 21 26 28 37 50

9.3 8.9 8.1 7.2 6.1 5.7 5.6 5.5 5.8 6.9 6.4 2.4 2.7
 50 43 34 24 19 8 13 22 27 36 46 50

8.1 6.8 6.2 7.5 6.1 5.9 5.6 5.7 6.0 7.0 6.2 1.4 1.6
 50 35 29 25 19 8 12 20 28 35 44 50

Sta.	+	π	-	Elev
		921.23		

139 +56

140

+30

+65

T.P.	2.13	9/6.18	7.18	914.05
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141

+50

142

+50

Lt.

Q

Rt.

6.8 6.4 5.7 7.4 7.5 6.3 6.0 5.8 6.1 6.7 7.2 0.8 1.6
50 41 32 28 24 20 11 12 23 27 39 50

6.6 6.1 6.4 7.6 7.4 6.7 6.4 6.2 6.3 6.8 7.3 6.2 1.9 2.7
50 43 33 28 25 21 8 12 22 25 30 37 50

9.2 9.3 7.8 6.9 4.5 6.4 6.6 6.9 7.9 6.8 3.0 3.5
50 37 26 20 11 12 20 26 30 37 50

8.9 8.6 8.2 7.3 7.1 6.9 7.1 7.5 8.7 4.7 5.3
50 36 25 19 8 12 21 26 36 50

5.4 5.5 4.8 3.6 2.4 2.4 2.1 2.4 2.9 3.9 3.5 2.1 2.3
50 40 30 24 19 7 13 22 26 32 35 50

7.4 6.8 6.1 5.4 3.3 2.9 2.6 2.9 3.1 4.5 4.7 3.2 3.9
50 40 31 26 21 8 12 23 26 31 36 50

8.2 7.8 7.3 3.6 3.6 3.5 3.3 3.6 3.7 5.2 5.2 4.0 4.9
50 36 29 21 15 8 12 23 29 33 37 50

10.1 8.9 7.4 5.0 4.3 4.2 3.9 4.0 4.5 5.2 6.0 6.0
50 33 26 20 16 9 13 20 28 31 50

Sta.	+	π	-	Elev.
		916.18		

143

+50

144

+50

145

+50

146

T.P.

5.10

911.08

LH

R

RH

98 92 83 55 46 45 42 44 47 54 68 68
50 35 31 21 16 8 12 18 24 30 50

83 87 88 82 52 49 46 48 51 58 68 73
50 42 31 25 17 8 14 20 25 29 50

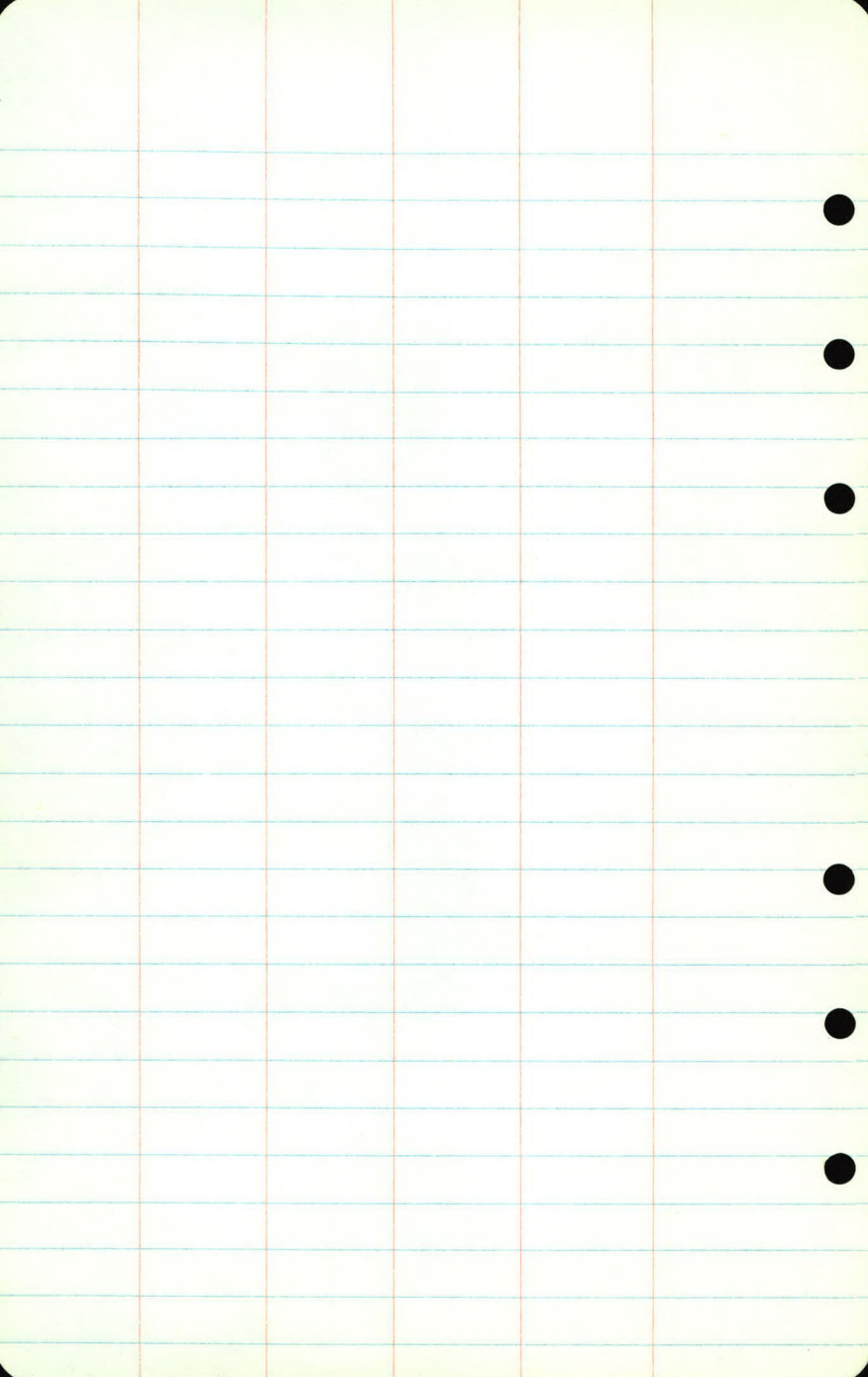
74 71 76 78 74 57 50 49 47 49 51 60 61 56 58
50 34 31 28 25 22 17 8 13 19 25 34 38 50

69 63 64 69 69 56 51 48 46 48 50 65 65 34 31 40
50 41 29 26 24 21 18 7 12 20 26 29 36 44 50

61 64 64 69 69 53 50 47 49 52 67 67 26 23 31
50 38 28 26 24 18 7 12 20 26 28 35 45 50

64 65 66 75 75 55 52 50 52 55 69 69 60 44 34 36
50 37 28 26 24 19 7 13 21 25 28 33 36 41 50

64 63 72 72 53 52 51 55 57 72 72 39 33 36
50 29 26 24 19 6 13 20 26 29 36 44 50





Sta	+	π	-	Elev
B.M.	477	934.37		929.60

218+80.0			477	
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				+85
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				+90
--	--	--	--	-----

				+96
--	--	--	--	-----

219				
-----	--	--	--	--

				+05
--	--	--	--	-----

				+50
--	--	--	--	-----

220				
-----	--	--	--	--

LA

2

Pl.

Top Mont. Hamline Ave + U.S. #10

42 45 45 46 49 56 59
50 30 14 12 27 50

6.0 6.0 4.6 4.4 4.6 5.1 5.3 7.2 7.9 8.2
50 34 27 12 16 22 26 33 50

5.8	6.8	6.2	4.4	4.5	4.6	5.1	5.3	7.6	8.9
50	31	26	22	13	14	20	24	50	

4.1 4.5 6.2 6.3 4.6 4.5 4.6 5.1 5.5 6.7 6.8
50 34 28 23 18 11 14 23 35 50

1.6 4.3 4.4 6.1 6.2 4.6 4.5 4.6 5.1 5.2 6.6 6.9
50 36 27 24 20 16 9 12 17 28 50

1.1 1.5 4.3 4.9 4.4 6.4 5.1 4.5 5.1 7.8 8.6 8.6
50 36 29 26 24 18 16 15 22 36 50

1.1 1.9 4.5 5.3 6.6 6.5 5.2 4.6 5.2 7.8 8.6 8.6
50 33 29 25 23 19 16 15 21 35 50

Sta.	+	π	-	Elev.
		934.37		

220 +50

221

+20

+60

222

+18

+56

223

T.P.	4.34	933.63	5.08	929.29
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Lt.

R.

Rt.

15 2.4 42 6.0 6.3 6.9 6.7 4.9 4.4 5.2 9.2 9.9 10.1
50 41 29 27 25 23 19 15 14 23 36 50

2.5 3.3 6.5 7.3 7.0 5.6 5.0 4.4 5.1 11.9 13.1
50 37 31 23 19 16 12 13 28 50

2.8 3.6 7.1 8.0 7.4 8.4 4.4 5.3 12.6 13.5
50 39 33 25 20 15 13 30 50

3.5 5.2 7.8 8.3 7.6 5.5 4.5 5.4 10.1 10.5
50 38 33 28 20 15 15 25 50

3.8 4.5 6.6 7.1 7.9 7.2 5.5 4.7 4.5 8.4 8.4 7.6
50 37 34 28 25 19 15 14 21 36 50

3.0 4.8 5.7 6.8 7.3 7.1 5.4 4.7 5.6 8.1 8.5 7.9
50 38 31 28 23 19 50 14 22 35 50

0.0 1.0 7.2 6.9 5.6 4.9 5.7 9.0 10.2 10.7
50 32 23 18 15 15 24 36 50

2.9 2.9 7.4 7.2 5.7 5.1 6.0 10.0 10.9 11.3
50 30 22 18 15 15 24 36 50

Sta.	+	π	-	Elev.
		933.63		

223 +30

+70

224

+50

225

+30

+70

226

L.H.

E

R.H.

3.1 2.0 3.8 6.5 6.4 5.1 4.9 5.2 9.4 10.7
 50 37 28 23 19 16 15 25 50

3.3 3.2 6.5 6.5 5.0 4.3 5.1 8.0 9.3 10.5
 50 29 23 19 15 16 22 36 50

3.9 2.9 6.6 6.5 5.0 4.3 5.0 6.7 7.1 9.5
 50 30 24 20 15 15 19 27 50

3.4 3.9 6.8 7.0 6.8 5.1 4.5 4.9 6.5 6.6 5.6 5.7 6.9
 50 32 27 23 19 15 15 19 23 26 39 50

1.8 3.2 4.5 7.2 7.3 5.1 4.4 5.1 6.6 7.0 6.2 6.4 7.8
 50 35 32 26 21 16 15 19 23 25 37 50

2.9 3.9 5.1 7.8 8.0 6.8 5.2 4.4 5.1 7.5 8.6 9.2
 50 35 32 29 24 21 16 16 22 31 50

5.5 5.9 6.6 8.0 7.8 6.8 5.1 4.5 5.4 8.6 9.2 10.3
 50 35 32 30 24 19 15 16 23 33 50

7.0 7.3 8.2 7.7 5.2 4.7 5.3 9.8 10.5 10.7
 50 36 28 21 15 16 24 28 50

Sta.	+	T	-	Elev.
		983.63		

226 +50

227

+50

+92

228 +03

+25

+288 Top Rail

4.91

+33.8 Top Rail

4.94

Lt

E

Rt

7.3 7.6 9.4 9.4 5.4 4.9 5.5 10.3 10.9
50 40 33 25 15 16 26 50

9.3 10.8 10.8 10.5 5.5 4.9 5.7 10.8 11.9
50 40 33 27 16 15 26 50

+97°12'N 57°W

$\frac{11.93}{FL. = 28'}$

$\frac{12.13}{FL. = 29'}$

10.5 11.2 11.3 10.8 5.4 4.8 5.7 11.8 12.3
50 47 35 27 16 15 29 50

10.5 10.9 10.5 5.7 4.7 5.2 11.2 12.0
50 32 26 16 15 28 50

7.8 8.0 7.5 5.4 4.7 4.9 8.5 7.5
50 30 20 15 14 23 50

6.8 6.5 5.7 4.9 4.7 5.2 5.4 5.3 5.1
50 35 18 10 9 18 38 50

S/α	+	π	-	Elev
		933.63		

22.8 +44.2	Top Rail	4.96		
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+49.3	Top Rail	4.97		
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F.P.		5.42	928.21	
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+50

Lt

£

Rt

Sta.	+ -	π	-	Elev
------	--------	-------	---	------

7

7

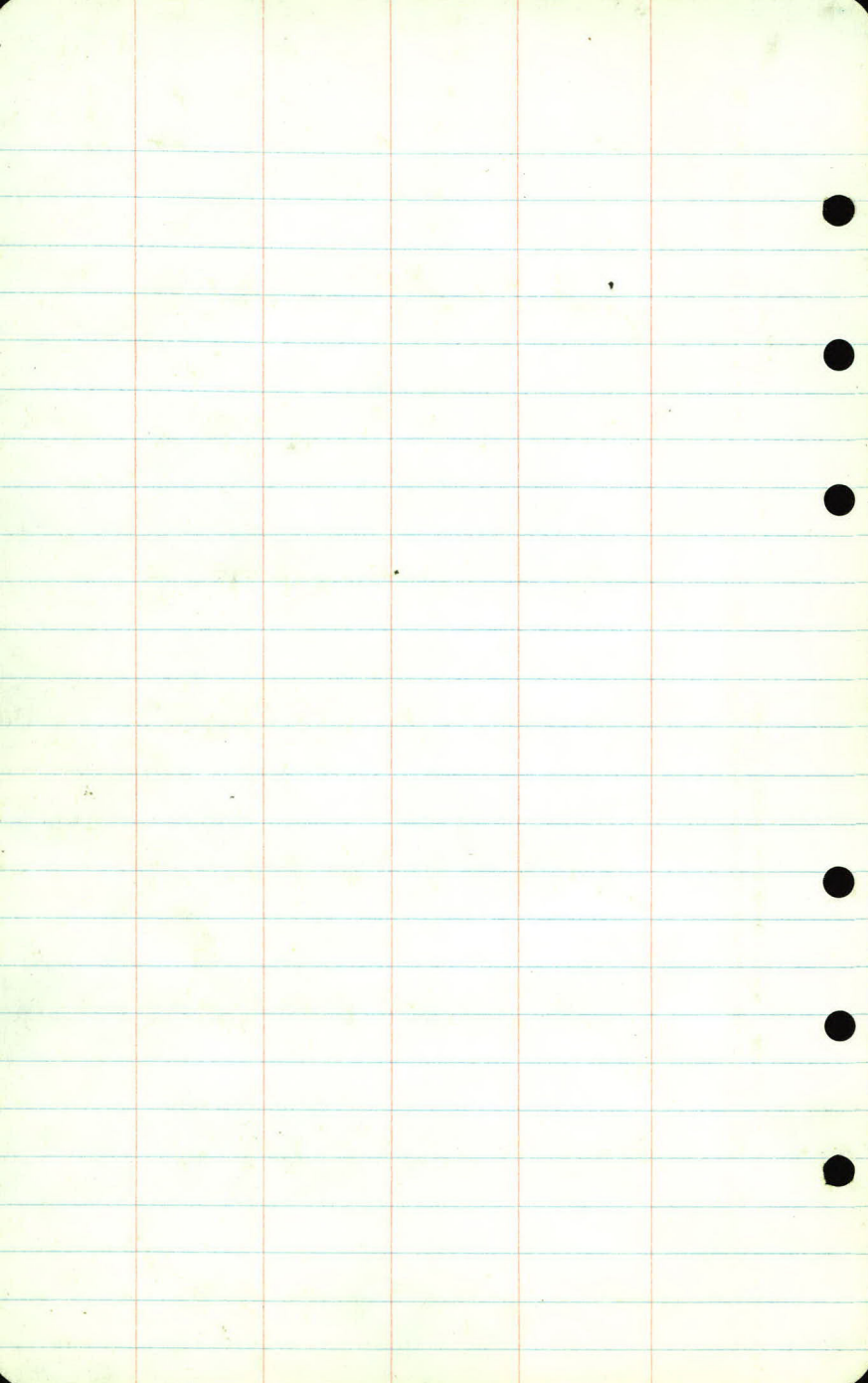
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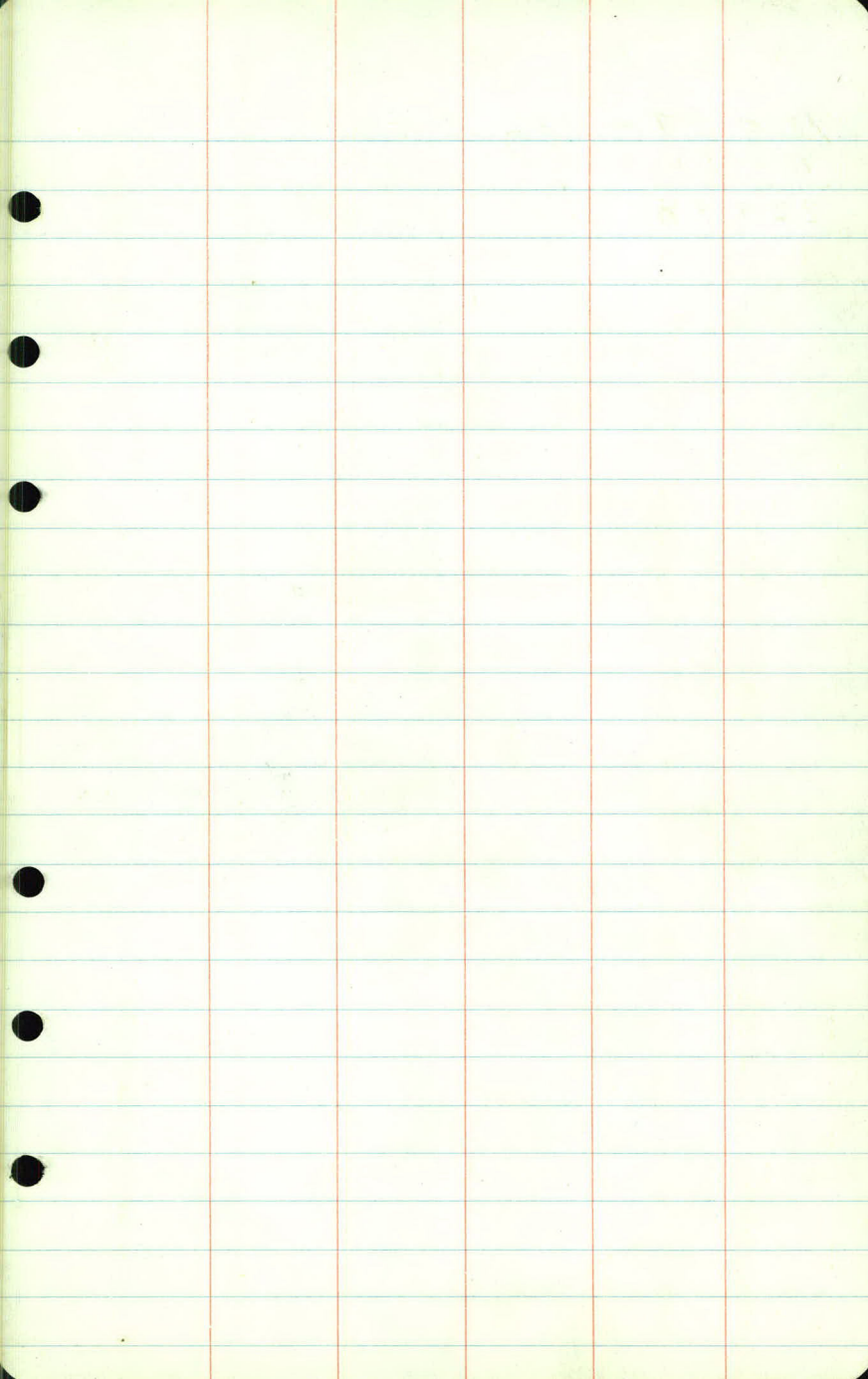
Elev

Lt

2

Rt





$$\begin{array}{r} 1210.27 - 986.32 = \\ \underline{986.32} \\ 223.95 \end{array}$$

VERS-

87009
95028

$$\begin{array}{r}
 987.5 \\
 \times 2.9988 \\
 \hline
 3 \quad 79000 \\
 2 \quad 79000 \\
 88875 \\
 88875 \\
 \hline
 986.31500
 \end{array}$$

$$\begin{array}{r}
 1.0000 \\
 0.4972 \\
 \hline
 .95028
 \end{array}$$

$$\begin{array}{r}
 127357 \\
 9503 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 382071 \\
 6367850 \\
 \hline
 1146213
 \end{array}$$

$$1210.273571$$

$$\begin{array}{r}
 1273.57 \\
 262.04 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 1011.53 \overline{) 223.9600000} \\
 \underline{202306}
 \end{array}$$

$$1011.53$$

$$\begin{array}{r}
 216540 \\
 202306 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 142340 \\
 101153 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 411870 \\
 404612 \\
 \hline
 \end{array}$$

$$72580$$

$$32.28$$

$$135$$

$$16140$$

$$9684$$

$$3228$$

$$43.5780$$

$$2106$$

$$21495$$

$$2$$

$$43390$$

1272.04

866.73

415.31

Continuous Continuous 1273.57

9988

12

1 1018856

1018856

1146213

1146213

1272.041 716

10 11.53

.757

808071

505765

808071

866.72821

457.84

262.04

1183136

1915680

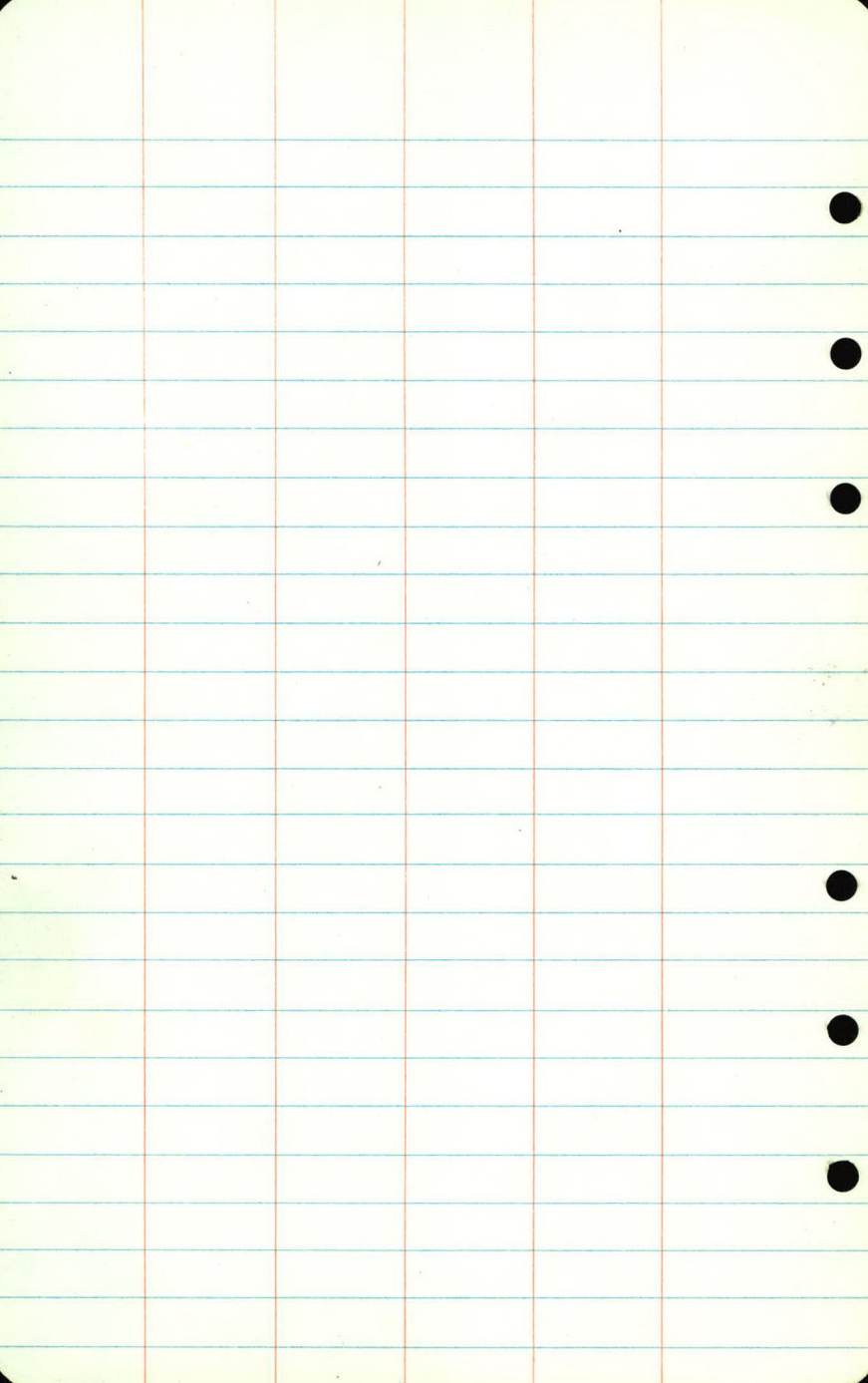
274704

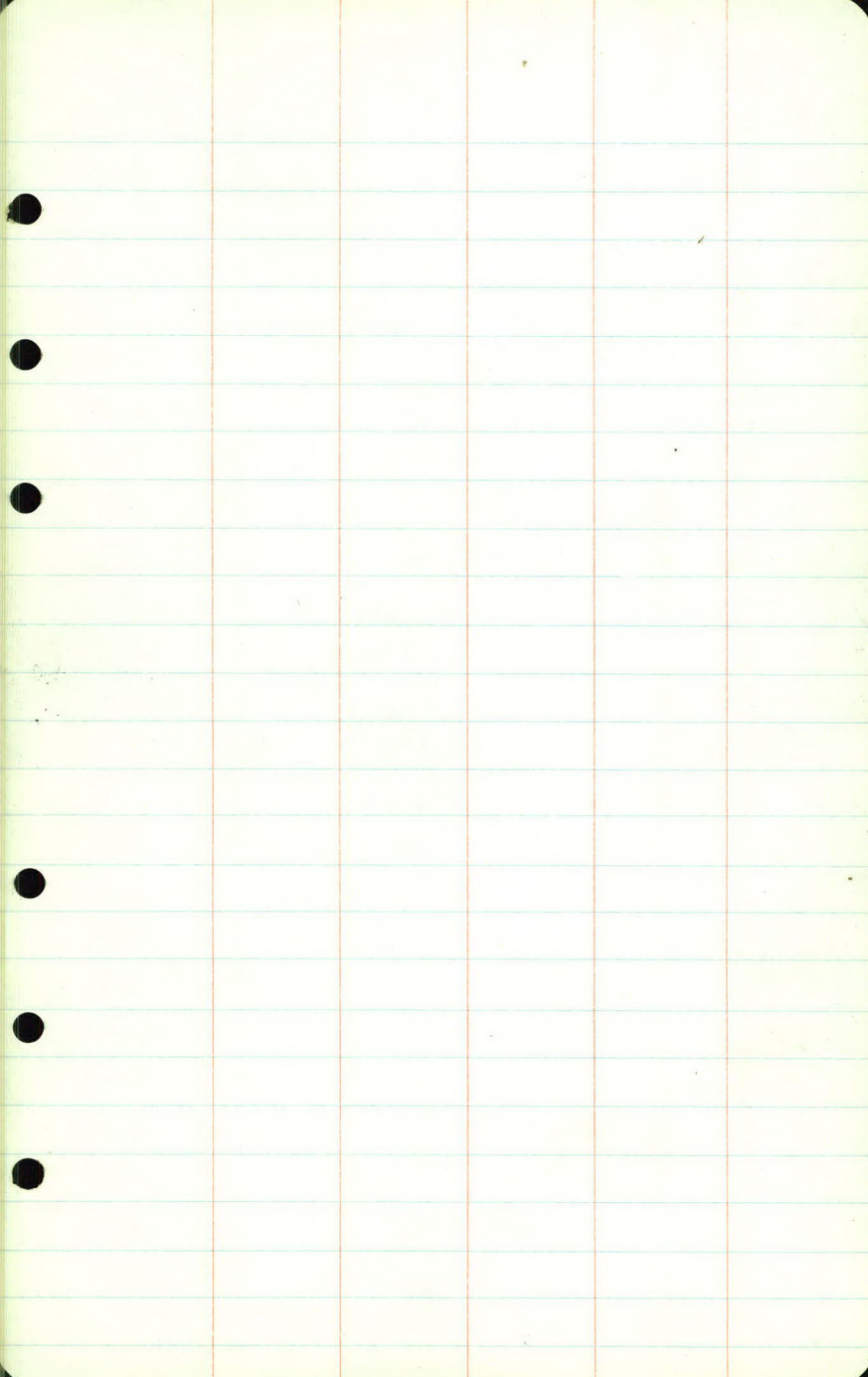
91568

119.9723936

16782.46

169102.43





Sta Point ΔL ΔR

218+66.50 P.I.

260. Rd E.

717553
171+51.53 = P.I.

Sta	Point	ΔL	ΔR
170	P.T.	24°36'	24°04.5'
+75		23°56'	21°14.2'
+50		21°11'	19°14.2'
+25		18°26'	16°44.2'
169		15°41'	14°14.2'
+75		12°56'	11°44.2'
+50		10°11'	9°14.2'
+25		7°25.8'	6°44.2'
168		4°40.8'	4°14.2'
167+82.46	P.C.	1°55.8'	1°44.2'
		0°00'	0°00'

167+82.28 P.T.

$$\begin{array}{r} 158 + 12.28 \\ 5 \text{ } 09 \text{ } 94 \\ \hline 163 + 22.22 \end{array}$$

$$\begin{array}{r} 17.54 \\ 6.6 \\ \hline 10524 \\ 16524 \end{array}$$

$$\begin{array}{r} 115.754 \\ 6.0 \\ \hline 55. \end{array}$$

$$\begin{array}{r} 11 \\ 6.0 \\ \hline 6.60 \end{array}$$

$$\begin{array}{r} 1055.8 \\ 2045 \\ \hline \end{array}$$

$$\begin{array}{r} 40408 \\ 2045 \\ \hline \end{array}$$

$$\begin{array}{r} 70258 \\ 2045 \\ \hline \end{array}$$

$$\begin{array}{r} 100108 \\ 245 \\ \hline \end{array}$$

$$\begin{array}{r} 12056 \\ 2045 \\ \hline \end{array}$$

$$\begin{array}{r} 1541 \\ 2045 \\ \hline \end{array}$$

$$\begin{array}{r} 18026 \\ 2095 \\ \hline \end{array}$$

$$\begin{array}{r} 21011 \\ 2045 \\ \hline \end{array}$$

$$\begin{array}{r} 2356 \\ 40. \\ \hline \end{array}$$

$$\begin{array}{r} 24046 \\ 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 970.00 \\ 45 \overline{) 4365} \\ 405 \\ \hline 315 \\ 315 \\ \hline \end{array}$$

$$4 \overline{) 11} 2^{\circ} 45'$$

$$\begin{array}{r} 6.6 \\ 6.1 \\ \hline 6.6 \\ 346 \\ \hline 46.26 \end{array}$$

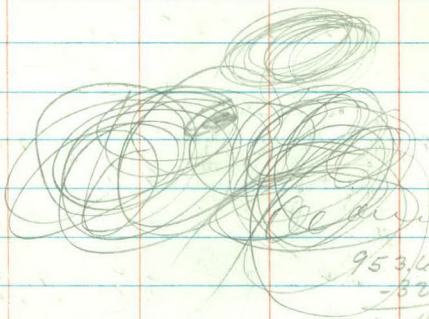
$$\begin{array}{r} 170 + 06.1 \\ 167 + 82.46 \\ \hline 223.64 \end{array}$$

$$\begin{array}{r} 54 + 90.50 \\ 7 + 75.53 \\ \hline 47 + 14.97 \end{array}$$

$$\begin{array}{r} 171 + 51.53 \\ 47 + 14.97 \\ \hline 218 + 66.50 \end{array}$$

$$\begin{array}{r} 24.93 \\ 509.94 \\ \hline 14.97 \end{array}$$

$$\begin{array}{r} 158 + 12.28 \\ 970.00 \\ \hline 167 + 82.28 \end{array}$$



948.69

4.99

953.68

943.31

5.79

953.67

- 3.20

950.47

+ 5.16

955.63

- 3.26

952.37

949.10

0.42

948.68

4.99

6.7

953.67

- 2.62

951.05

+ 10.49

961.54

- 5.87

955.67