

Book 4, Dr. 13

X

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Plan Survey

NEW BRIGHTON PARK

From _____ To _____
Topog. Sewer Levels & X-sec. 1946

Road Acc't. No. CWA

Date Filed 1934 & 1938 File 13

BASE LINE

HILL

Between S.T.H. #63 & 6th Ave.
8th St & 7th St

Preliminary

New Brighton

2+70

0+00 £ 8th 57.

± S.T.H. #63

± 6th Ave

161.50' 161.50'

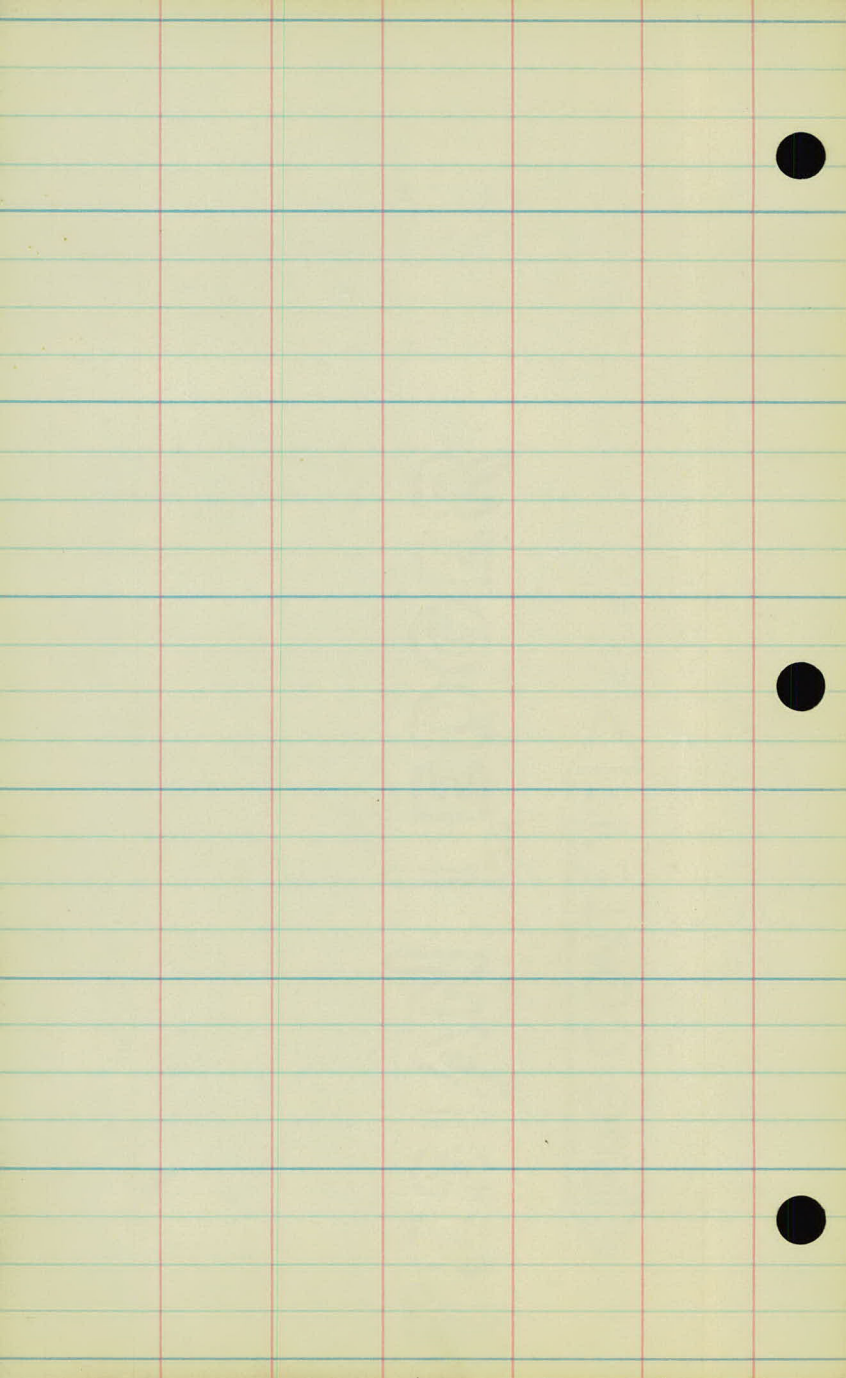
Base Line

N

± S.T.H. #63

± 6th Ave

161.18' 161.18'



CROSS-SECTIONS

HILL

Between S.T.H #63 & 6th Ave
8th St. & 7th St.

B.M. 3.56 899.98 ✓

896.4 ✓

0+00

893.9

0+23

94.9

T.P. 11.30 911.19 ✓ 0.09 899.89 ✓

0+36

96.6

T.P. 3.84 910.04 ✓ 4.99 906.20 ✓

0+46

904.0

0+50

4.2

0+92

5.4

0+96

5.5

1+50

6.2

2+03

6.6

2+10

5.4

2+50

5.7

March 14, 1932

H. J. Galbreath

East

C

West

Spk in. D.P. S.W. Cor. B²² E S.T.H. #63

S.W.	S.W.									Rd.
5.4	5.4	4.6	5.6	6.1	6.1	6.0	6.1	3.6	4.5	
142.0	138.0	122.0	100.0	50.0	0.0	50.0	100.0	147.0	161.0	

				Rd.
5.1	5.3	4.6	3.6	3.8
0.0	50.0	100.0	146.0	161.0

14.6	8.8	10.5	9.3	9.2	10.0
0.0	22.0	33.0	50.0	100.0	116.0

	Rd.
14.0	14.4
140.0	161.0

					Rd.
6.0	7.2	8.1	9.1	13.2	13.5
0.0	50.0	100.0	120.0	150.0	161.0

					Rd.
5.8	6.8	8.4	11.3	12.9	13.5
0.0	50.0	100.0	142.0	152.0	161.0

					Rd.
4.6	5.9	7.8	9.6	12.1	12.7
0.0	50.0	100.0	145.0	150.0	161.0

					Rd.
4.5	5.8	7.8	9.6	12.1	12.7
0.0	50.0	100.0	145.0	150.0	161.0

					Rd.
3.8	6.2	8.8	10.3	12.1	12.5
0.0	50.0	100.0	145.0	154.0	161.0

					Rd.
3.4	5.5	8.1	10.3	12.2	13.5
0.0	50.0	100.0	145.0	155.0	161.0

					Rd.
4.6	5.6	8.0	10.3	12.7	13.6
0.0	50.0	100.0	145.0	155.0	161.0

					Rd.
4.3	5.8	8.6	11.0	13.6	14.0
0.0	50.0	100.0	143.0	158.0	161.0

910.04

2+70

4.2 905.1

T.P.

3.43

909.63

3.84

906.20

0+23

894.9

0+36

96.6

0+46

904.0

0+50

4.2

0+92

5.4

0+96

5.5

1+50

6.2

T.P.

6.08

912.28

3.43

906.20

2+03

6.6

2+10

5.4

2+50

5.7

2+70

5.1

T.P.

2.01

901.72

12.57

899.71

B.M.

5.31

896.41

896.42

East

West

Rd.

<u>49</u>	<u>82</u>	<u>84</u>	<u>11.5</u>	<u>137</u>	<u>144</u>
00	50.0	100.0	141.0	154.0	161.0

S.W.	S.W.					
<u>14.5</u>	<u>14.5</u>	<u>12.8</u>	<u>12.1</u>	<u>13.6</u>		
142.0	138.0	116.0	100.0	50.0		

£
147

S.W.							
<u>14.4</u>	<u>14.1</u>	<u>10.3</u>	<u>10.4</u>	<u>7.8</u>	<u>8.4</u>	<u>12.6</u>	
138.0	136.0	131.0	69.0	63.0	53.0	49.0	13.0

S.W.	S.W.						
<u>14.1</u>	<u>14.1</u>	<u>14.0</u>	<u>10.3</u>	<u>9.8</u>	<u>4.2</u>	<u>4.3</u>	
142.0	138.0	137.0	131.0	70.0	65.0	50.0	5.6

S.W.	S.W.						
<u>13.9</u>	<u>13.9</u>	<u>13.8</u>	<u>10.0</u>	<u>9.6</u>	<u>6.7</u>	<u>5.5</u>	<u>4.1</u>
142.0	138.0	137.0	130.0	92.0	83.0	70.0	62.0

S.W.	S.W.						
<u>12.6</u>	<u>12.6</u>	<u>12.5</u>	<u>8.1</u>	<u>8.2</u>	<u>2.9</u>		
142.0	138.0	137.0	130.0	91.0	80.0		4.2

S.W.							
<u>12.4</u>	<u>12.4</u>	<u>11.3</u>	<u>1.9</u>	<u>2.6</u>	<u>3.0</u>		
142.0	138.0	136.0	124.0	100.0	50.0		4.1

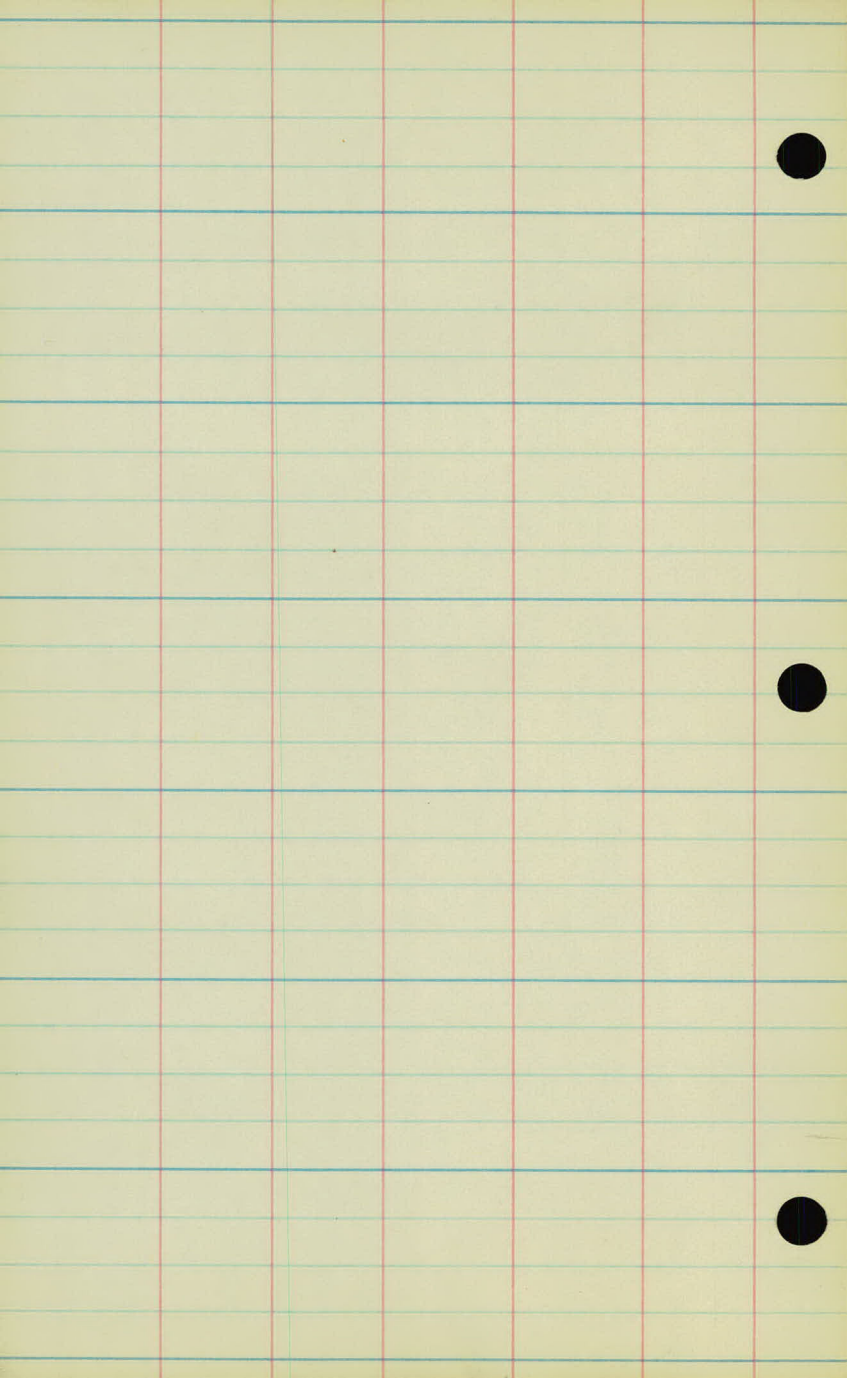
S.W.	S.W.						
<u>11.3</u>	<u>11.3</u>	<u>10.4</u>	<u>1.9</u>	<u>1.7</u>	<u>1.7</u>		
142.0	138.0	137.0	125.0	100.0	50.0		3.4

S.W.	S.W.						
<u>12.8</u>	<u>12.8</u>	<u>12.2</u>	<u>2.4</u>	<u>3.2</u>	<u>3.8</u>		
142.0	138.0	137.0	122.0	100.0	50.0		5.7

S.W.	S.W.						
<u>12.7</u>	<u>12.7</u>	<u>12.1</u>	<u>7.4</u>	<u>6.6</u>	<u>6.6</u>		
142.0	138.0	137.0	132.0	100.0	50.0		6.9

S.W.	S.W.						
<u>11.7</u>	<u>11.7</u>	<u>11.2</u>	<u>7.1</u>	<u>6.6</u>	<u>6.6</u>		
138.0	138.0	137.0	130.0	100.0	50.0		6.6

142	S.W.	S.W.					
	<u>11.2</u>	<u>11.2</u>	<u>10.8</u>	<u>6.9</u>	<u>6.5</u>	<u>6.5</u>	
	138.0	138.0	139.0	132.0	100.0	50.0	7.2



LEVELS

SIDEWALK

West of S.T.H. #63

Between 8th St & 7th St

B.M

4.25 900.67

896.42

S.W.
Rod

0+00 ± 8th St.

94.6 6.1

0+50

95.7 5.0

1+00

97.3 3.4

1+50

98.4 2.3

2+00

99.5 1.2

T.P.

9.25 908.70

1.22

899.45

2+50

900.6 8.1

3+00

1.7 7.0

3+50

2.6 6.1

4+00

3.8 4.9

4+50

4.8 3.9

5+00

5.5 3.2

5+50

6.3 2.4

6+00

7.1 1.6

6+35 End. S.W. at 7th St.

7.7 1.0

T.P.

3.65 901.20

11.15

897.55

4.75

896.45

896.42

BASE LINE

SWAMP

Bounded by

S.T.H. #63, 3rd Arc.

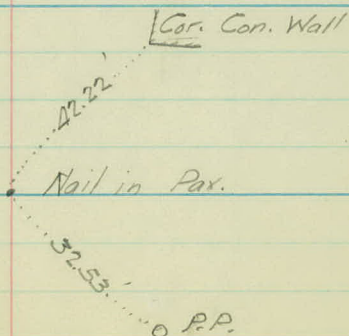
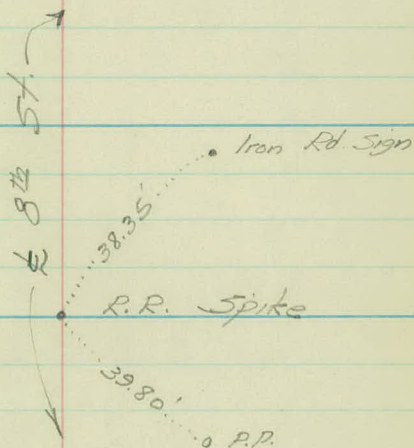
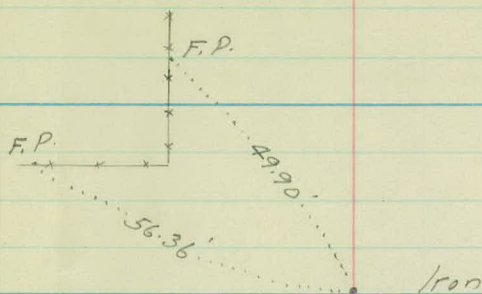
8th St. & 450' No. of 8th St.

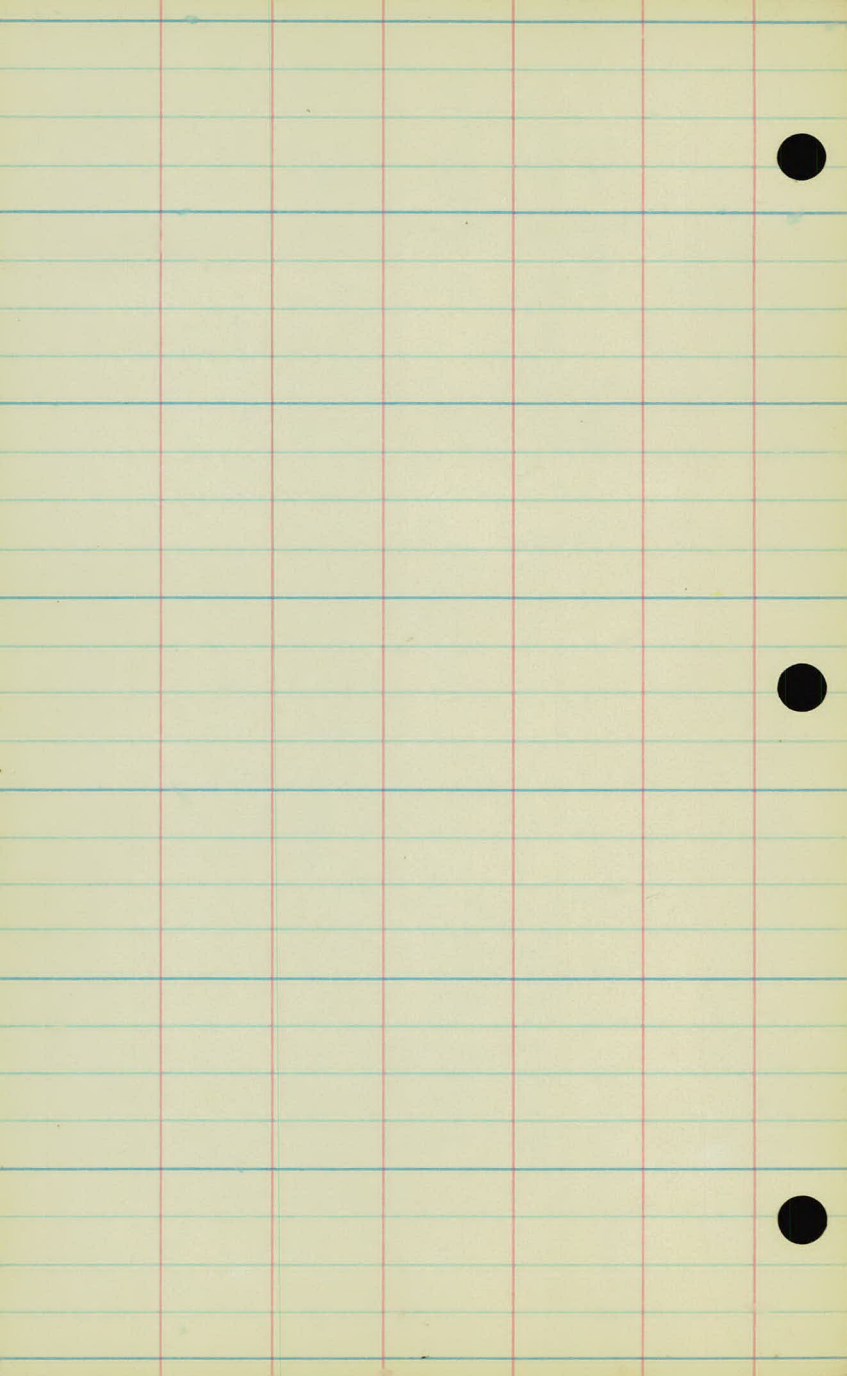
6+52.18 £ 3rd Ave

3+26.18 £ 4th Ave

0+00 £ S. T. H. #63

A H.J. Goldberg





CROSS- SECTIONS

SWAMP

Bounded by

S.T.H #63, 3rd Ave.

8th St. & 450' No. of 8th St.

	+	H.I.	-	Elev.
B.M.	5.17	891.29 ✓		886.12 ✓
T.P.	6.22	897.09 ✓	0.42	890.87 ✓
0+00	£	Pavement S.T.H. #63		

0+32	Shoulder			
T.P.	2.74	893.61 ✓	6.22	890.87 ✓

0+50

1+00

T.P.	0.02	890.89 ✓	2.74	890.87 ✓
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1+50

1+95 W. Side of Pond

2+00

2+50

T.P.	3.61	886.39 ✓	8.11	882.78 ✓
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3+00 E. Side of Pond

3+50

4+00

4+50

T.P.	3.94	885.93 ✓	4.40	881.99 ✓
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5+00

Clear > Warm March 12, 1934

A. H. J. Goldberg

Spt. in 30' Oak S.E. Cor. 4th Ave. & 8th

83.2	83.2	83.7	85.0	88.8	88.5	90.2	91.9	93.5	94.9	
13.9	13.9	13.4	12.1	10.8	8.6	6.9	5.2	3.6	2.2	
450.0	400.0	350.0	300.0	250.0	200.0	150.0	100.0	50.0	0.0	
81.5	81.8	82.8	83.6	85.6	88.0	89.8	91.3	93.2	94.7	
15.6	15.3	14.3	13.5	11.5	9.1	7.3	5.8	3.9	2.4	
450.0	400.0	350.0	300.0	250.0	200.0	150.0	100.0	50.0	0.0	
13.8	79.8									
96.5	43.9	75.9	76.2	75.3	76.4	78.7	81.1	84.6	89.9	92.2
17.1	17.7	17.4	18.3	17.2	14.7	12.5	9.0	3.7	3.4	0.9
400.0	350.0	300.0	250.0	200.0	150.0	100.0	50.0	42.0	30.0	20.0
76.5	75.4	75.4	74.8	74.8	78.6	80.2	81.4	86.4	90.5	92.8
17.1	18.2	18.2	18.8	18.8	15.0	13.4	12.2	7.2	3.1	9.1
450.0	400.0	350.0	300.0	250.0	200.0	150.0	100.0	50.0	29.0	20.0
76.2	74.7	74.2	74.2	74.7	75.3	78.0	79.9	82.6	87.0	87.9
14.7	16.0	16.7	16.7	16.0	15.6	12.9	11.0	8.3	3.9	3.0
450.0	400.0	350.0	300.0	250.0	200.0	150.0	100.0	50.0	29.0	17.0
No. Edge Pond										
75.3	74.3	74.2	74.1	74.1	75.0	77.8	78.8	80.1	82.2	85.0
15.6	16.6	16.7	16.8	16.8	15.9	13.1	12.1	10.8	8.7	5.9
450.0	400.0	350.0	300.0	250.0	200.0	150.0	100.0	50.0	32.0	19.0
No. Edge Pond										
74.8	74.2	74.3	74.4	74.2	74.5	75.2	78.4	79.3	81.3	84.8
16.1	16.7	16.3	16.5	16.7	16.4	15.7	12.5	11.6	9.6	6.1
450.0	400.0	390.0	270.0	250.0	200.0	150.0	100.0	50.0	21.0	13.0
No. Edge Pond										
74.1	74.1	74.0	74.1	74.5	75.6	78.3	84.0	81.4	82.8	82.1
12.3	12.3	12.4	12.3	11.9	10.8	8.1	6.4	5.0	3.6	3.3
450.0	400.0	260.0	250.0	200.0	150.0	100.0	50.0	18.0	13.0	0.0
No. Edge Pond										
75.5	74.2	74.6	74.0	74.4	74.3	73.5	75.7	77.9	79.5	81.0
10.9	12.2	11.8	12.4	12.0	12.1	12.9	10.7	8.5	6.9	5.4
450.0	400.0	350.0	340.0	280.0	250.0	200.0	150.0	100.0	50.0	18.0
77.3	74.9	74.2	74.2	74.2	74.5	75.8	77.8	79.3	80.2	81.9
9.1	11.5	12.2	12.3	12.2	11.9	10.6	8.6	7.1	6.2	4.5
450.0	400.0	350.0	300.0	250.0	200.0	150.0	100.0	50.0	16.0	13.0
78.0	77.2	74.8	74.5	74.3	74.7	76.3	78.8	79.2	79.4	81.2
8.4	9.2	11.6	11.9	12.1	11.7	10.1	7.6	7.2	7.0	5.2
450.0	400.0	350.0	300.0	250.0	200.0	150.0	100.0	50.0	19.0	12.0
82.3	78.4	77.7	75.6	74.5	74.9	76.2	77.5	79.5	79.3	81.0
3.6	7.5	8.2	10.3	11.4	11.0	7.7	8.4	6.4	6.6	4.9
450.0	400.0	350.0	300.0	250.0	200.0	150.0	100.0	50.0	18.0	12.0

88593

$$5+50$$

$$6+00$$

$$6+35.5$$

$$6+40.5$$

$$6+52$$

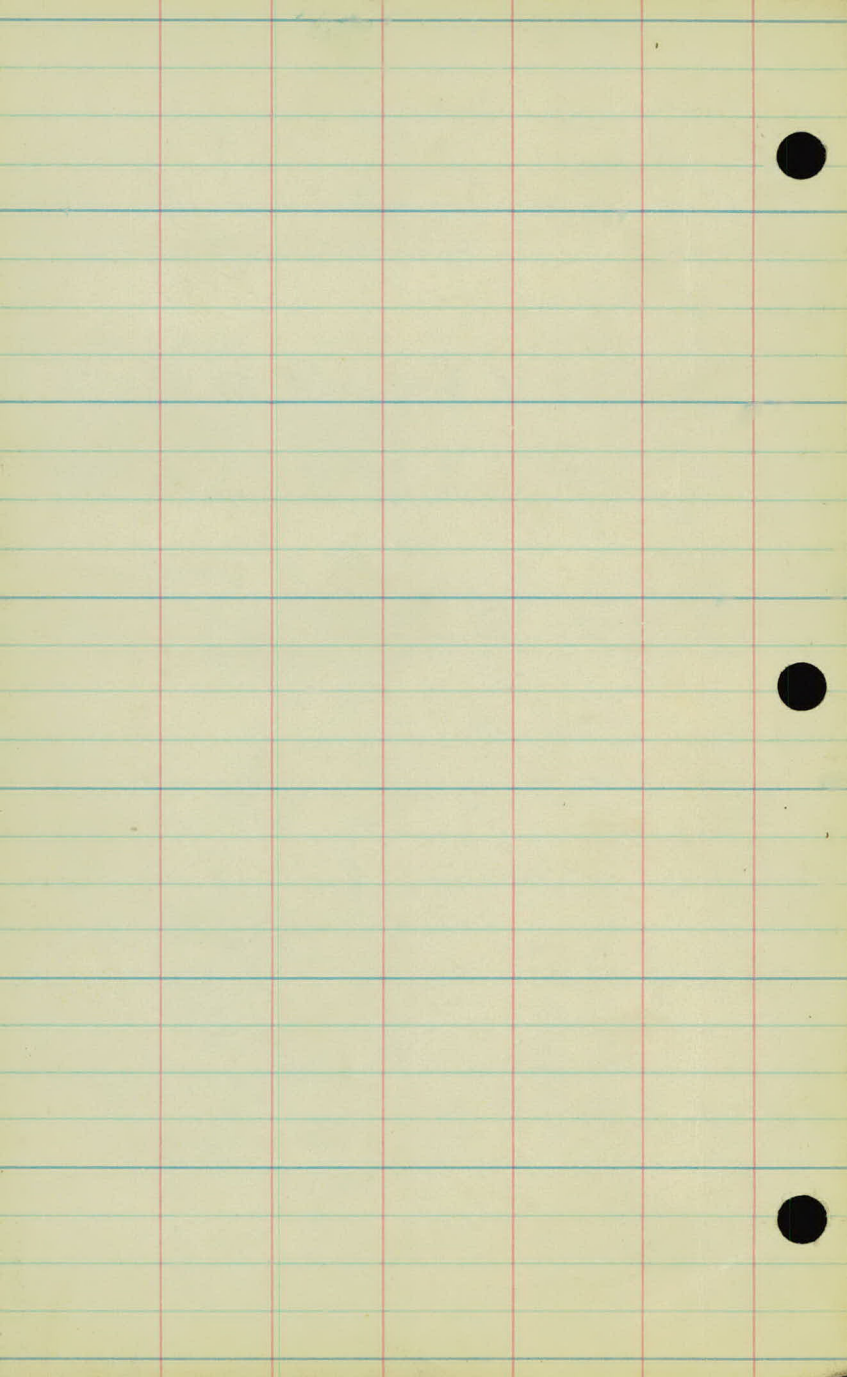
85.5	79.5	78.7	77.0	75.6	75.4	76.0	77.2	77.6	79.5	80.9	81.0
0.4	6.4	7.2	8.9	10.3	10.5	9.9	8.7	7.3	6.4	5.0	4.9
450.0	400.0	350.0	300.0	250.0	200.0	150.0	100.0	50.0	17.0	13.0	0.0

84.6	81.2	78.8	76.8	75.7	75.8	75.8	77.5	78.6	78.7	80.8	81.0
7.3	4.7	7.1	9.1	10.2	10.1	10.1	8.4	7.3	7.2	5.1	4.9
426.0	400.0	350.0	300.0	250.0	200.0	150.0	100.0	50.0	17.0	13.0	0.0

81.8	81.0	78.7	77.2	76.2	75.5	76.1	77.4	78.5	79.0	79.8	81.0
4.1	4.9	7.2	8.7	9.7	10.4	9.8	8.5	7.4	6.9	6.1	4.7
426.0	400.0	350.0	300.0	250.0	200.0	150.0	100.0	50.0	15.0	13.0	0.0

82.7	82.2	81.1	79.5	78.4	78.3	78.5	79.2	79.7	80.3	80.2	81.0
3.2	3.7	4.8	6.4	7.5	7.6	7.4	6.7	6.2	5.6	5.7	4.9
426.0	400.0	350.0	300.0	250.0	200.0	150.0	100.0	50.0	15.0	13.0	0.0

82.9	82.4	81.4	79.7	78.6	78.3	78.8	79.5	80.4	80.7	80.8	80.8
3.0	3.5	4.5	6.2	7.3	7.6	7.1	6.4	5.5	5.2	5.1	5.1
426.0	400.0	350.0	300.0	250.0	200.0	150.0	100.0	50.0	15.0	13.0	0.0



5'y.

LEVELS & SOUNDING
OF
Park at New Brighton

INDEX

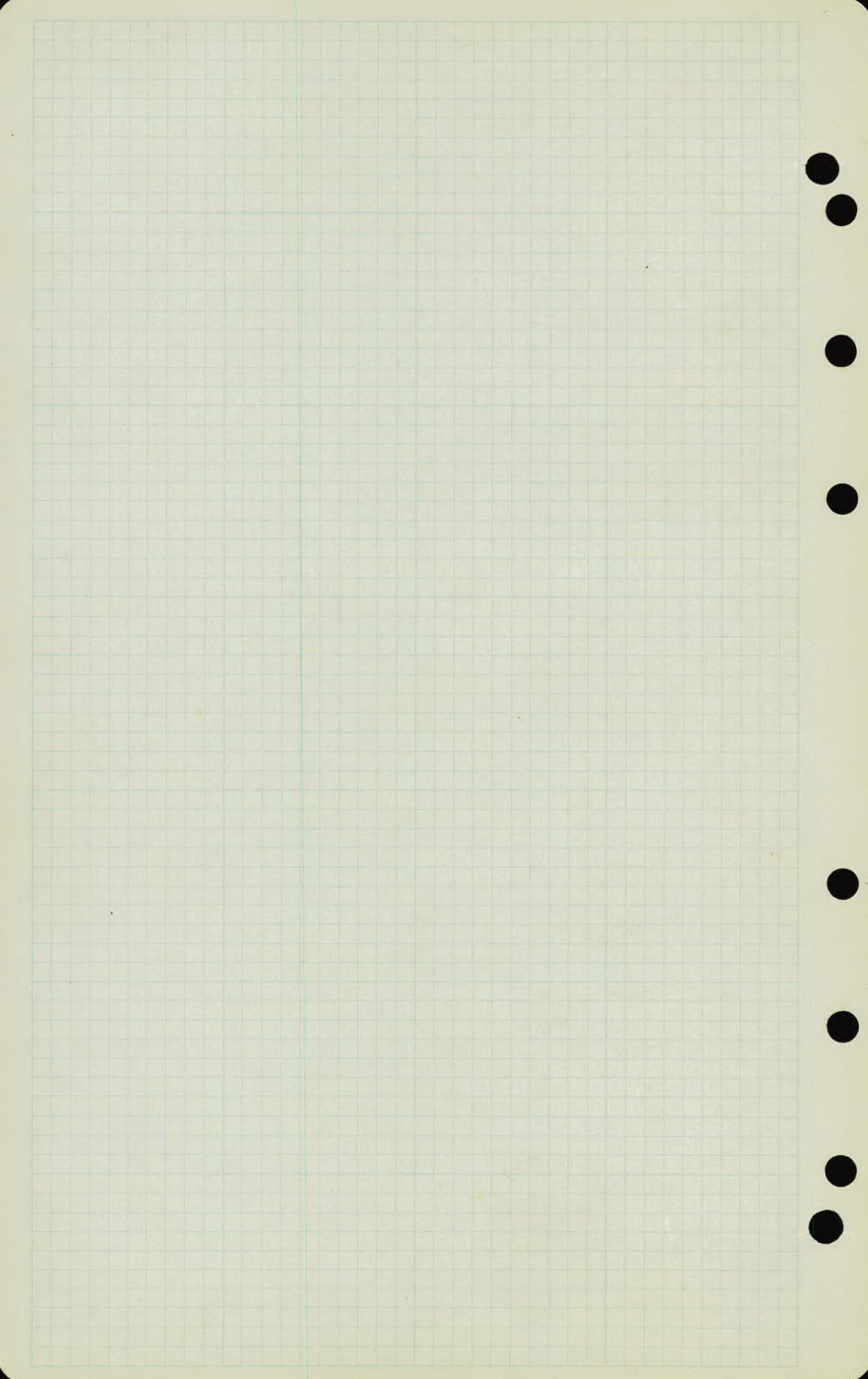
Align. - 1
X Sections
P.Line - 2-3
B.Line - 4-5
C.Line - 6-7
Checkbook - 8-10
Sounding 3 - 11-12

+2.5 Top Back Slope to Ditch = 350' Rt
+33 " " " " " = 300' Rt
+27 Top Back Slope to Ditch = 250' Rt

+30

0+00 = & Pth St

1



Xsections

"A" Line

Sta.	+	T	-	Elev.
B.M.	1.08	897.50 (997.50)		(896.42)

0	+00			94.9
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	+50			93.5
--	-----	--	--	------

1				91.9
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	+50			90.2
--	-----	--	--	------

2				88.5
---	--	--	--	------

	+50			86.7
--	-----	--	--	------

3				85.0
---	--	--	--	------

I.P.	4.27	988.55 (928.55)	13.32	984.18 (919.18)
------	------	--------------------	-------	--------------------

	+50			83.5
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4				82.9
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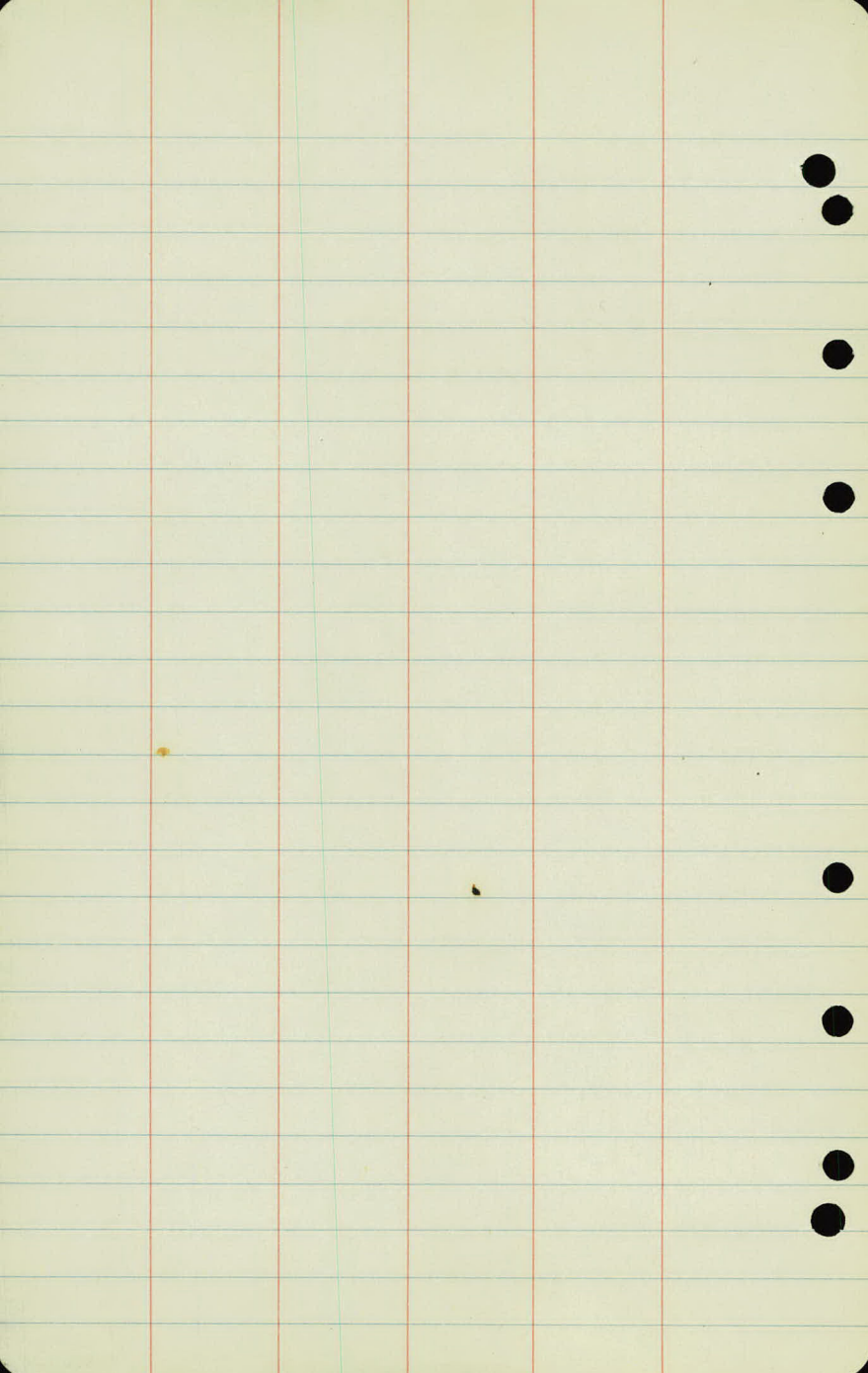
T.R.			5.68	882.87 (932.87)
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	+50			
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Spk. in P.P.S. W. Cor. 5th Ave. & 8th St.

R	Rt.
94.94	
<u>256</u>	
93.5	
<u>40</u>	
41.7	93.33
136	
91.9	
<u>362</u>	
586	93.51
138	
90.2	
<u>734</u>	
759	93.80
137	
88.45	
<u>706</u>	
739	91.80
139	
86.70	
<u>1080</u>	
111	91.80
14	
84.99	
<u>1251</u>	
84.6	91.80
1299	
142	
83.5	
<u>509</u>	
532	91.80
146	
82.9	
<u>568</u>	
598	91.80
148	

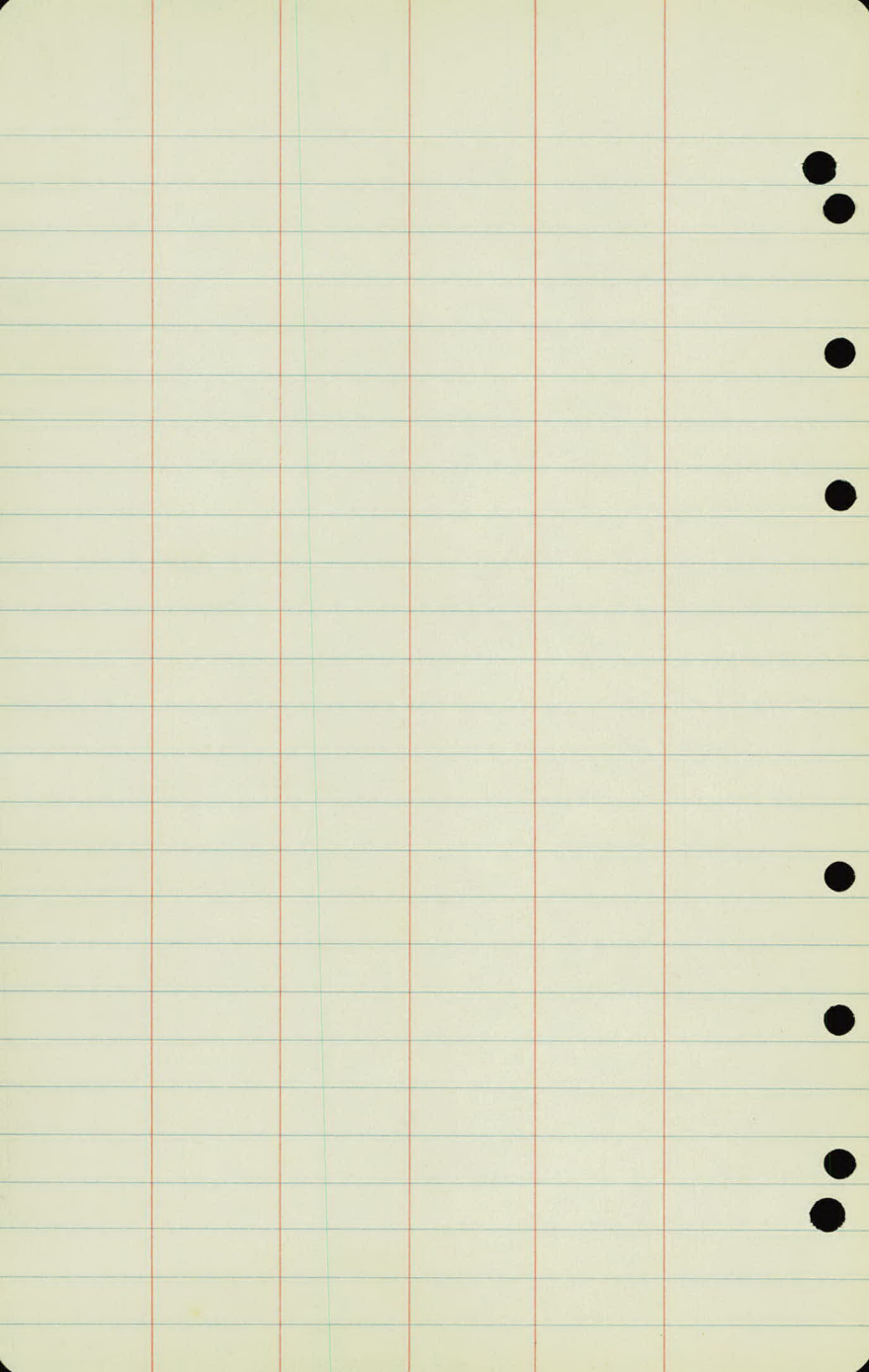
P. 5/9 4:00



X sections

"B" Line

Sta.	+	Σ	-	Elev.
B.M.	1.52	897.94		896.42
0	+61			93.4
1	+00			91.6
I.P.	2.03	889.21	1076	887.18
2				87.2
3				83.5
	+40			82.7
	+50			82.4
4				81.8
5				80.8
	+30			80.7
I.P.			217	800.02



X Sections

"C" Line

Sta	+	π	-	Elev.
T.P.	534	885.36		880.02

0	+33			80.2
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1	+00			79.4
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2				77.8
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+04	- L. 24" Conc. Culv.			
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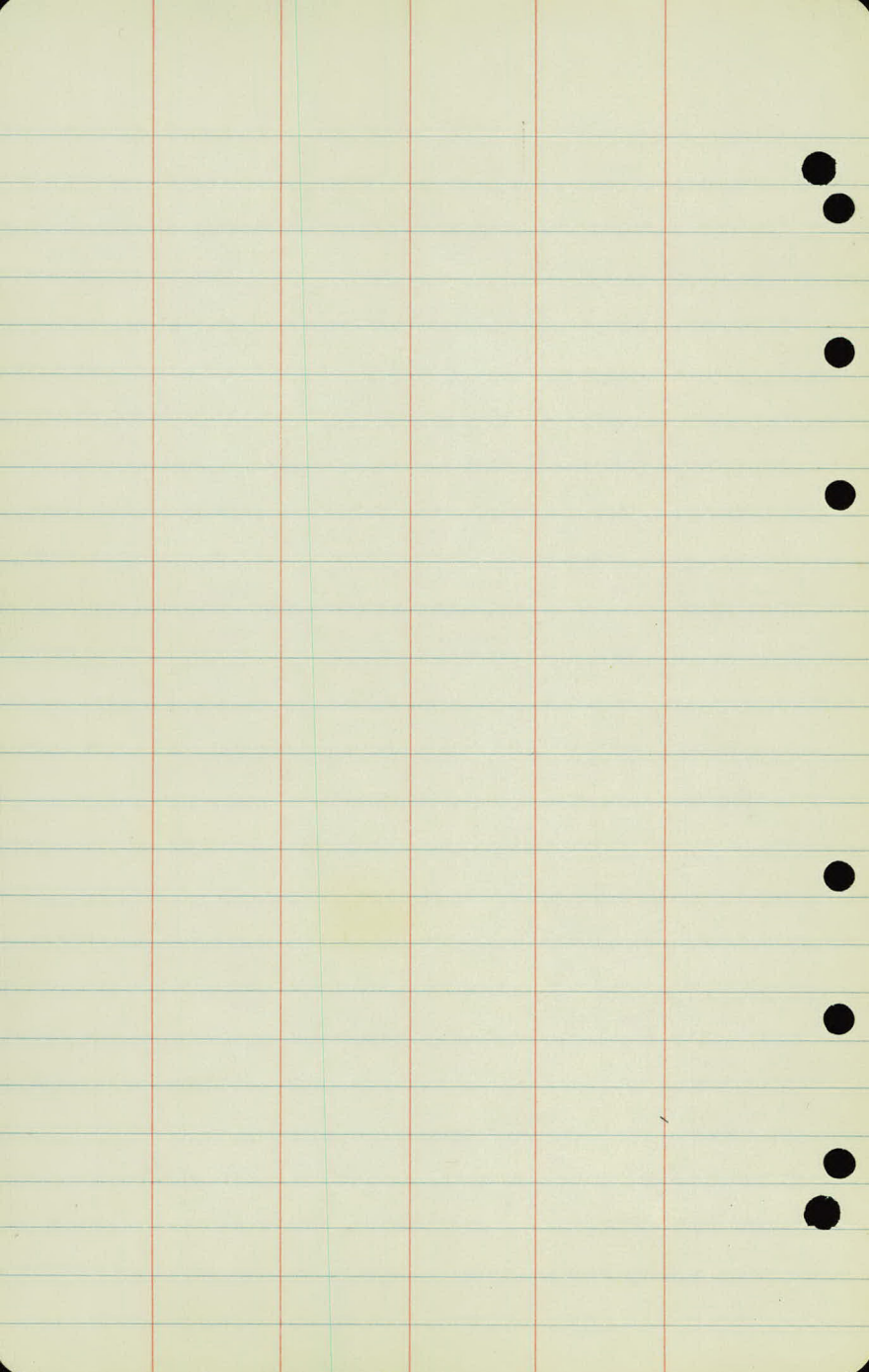
+06	= L. 2' Bottom Ditch Lt.			
-----	--------------------------	--	--	--

+09				77.8
-----	--	--	--	------

3				79.5
---	--	--	--	------

+67				81.7
-----	--	--	--	------

4				82.6
B.M.		2.57		82.47



LEVELS
of
Checkerboard Area.

Sta	+	π	-	Elev.
B.M.	0.41	896.83		896.42
T.P.	2.84	886.08	13.59	883.29

1

+50

2

+50

3

+20 = Bottom of knoll.

+32

+35

+37

+50

4

T.P.	4.81	889.24	6.65	879.43
------	------	--------	------	--------

2

Et.

81.2	80.3	79.8	79.1	78.9	78.9	78.7	78.6	
$\frac{99}{59}$	$\frac{5.8}{100}$	$\frac{6.3}{150}$	$\frac{7.0}{200}$	$\frac{7.2}{250}$	$\frac{7.2}{300}$	$\frac{7.4}{350}$	$\frac{7.5}{400}$	
80.7		78.7	79.2	78.5	78.5	78.4	78.4	78.4
$\frac{5.4}{56}$		$\frac{7.4}{100}$	$\frac{6.9}{150}$	$\frac{7.6}{200}$	$\frac{7.6}{250}$	$\frac{7.7}{300}$	$\frac{7.7}{350}$	$\frac{7.7}{400}$
79.3	78.5	78.2	78.4	78.3	78.2	78.3	78.3	
$\frac{6.8}{55}$	$\frac{7.6}{100}$	$\frac{7.2}{150}$	$\frac{7.7}{200}$	$\frac{7.8}{250}$	$\frac{7.9}{300}$	$\frac{7.8}{350}$	$\frac{7.8}{400}$	
78.0		78.0	78.1	77.9	77.6	77.6	77.5	77.8
$\frac{8.1}{52}$		$\frac{8.1}{100}$	$\frac{8.0}{150}$	$\frac{8.2}{200}$	$\frac{8.5}{250}$	$\frac{8.5}{300}$	$\frac{8.6}{350}$	$\frac{8.3}{400}$

77.6	77.8	77.8	77.8	77.4	77.5	77.9	77.8
$\frac{8.5}{50}$	$\frac{8.3}{100}$	$\frac{8.3}{150}$	$\frac{8.3}{200}$	$\frac{8.7}{250}$	$\frac{8.6}{300}$	$\frac{8.2}{350}$	$\frac{8.3}{400}$

77.9	78.4	78.5	78.3
$\frac{8.2}{250}$	$\frac{7.7}{300}$	$\frac{7.6}{350}$	$\frac{7.8}{384}$

80.6
5.5
372
81.0
5.1
300
81.0
5.1
230

Top knoll

77.4	77.5	77.4	77.7	77.9	Knoll	80.4	80.5	80.6	80.0	79.6	Knoll	76.6	76.8
$\frac{8.7}{50}$	$\frac{8.6}{100}$	$\frac{8.7}{150}$	$\frac{8.4}{200}$	$\frac{8.3}{225}$	$\frac{5.7}{231}$	$\frac{5.6}{250}$	$\frac{5.5}{300}$	$\frac{5.5}{350}$	$\frac{6.1}{350}$	$\frac{4.5}{374}$	$\frac{9.5}{385}$	$\frac{9.3}{400}$	

76.8	76.3	76.1	77.0	77.6	Knoll	79.6	79.5	79.2	78.6	78.1	Knoll	76.7	76.7
$\frac{9.3}{50}$	$\frac{9.8}{100}$	$\frac{10.0}{150}$	$\frac{9.1}{200}$	$\frac{8.5}{225}$	$\frac{6.5}{238}$	$\frac{6.6}{250}$	$\frac{6.7}{300}$	$\frac{7.5}{350}$	$\frac{8.0}{380}$	$\frac{8.0}{380}$	$\frac{9.4}{385}$	$\frac{9.4}{400}$	

549 + X - E/cy.

88424

0 +50

1

+50

2

+50

3

+50

4

B.M.

1.76

✓
882.48

(882.47)

L

Rt.

79.2	79.1	79.1	79.1	79.3
$\frac{50}{400}$	$\frac{51}{450}$	$\frac{51}{500}$	$\frac{51}{550}$	$\frac{49}{600}$
		78.1	78.2	78.2
		$\frac{41}{450}$	$\frac{60}{500}$	$\frac{60}{550}$
				$\frac{58}{600}$

77.8	77.7	77.7	77.5
$\frac{64}{450}$	$\frac{65}{500}$	$\frac{65}{550}$	$\frac{67}{600}$

77.8	77.5	77.5	77.0
$\frac{64}{450}$	$\frac{67}{500}$	$\frac{67}{550}$	$\frac{72}{600}$

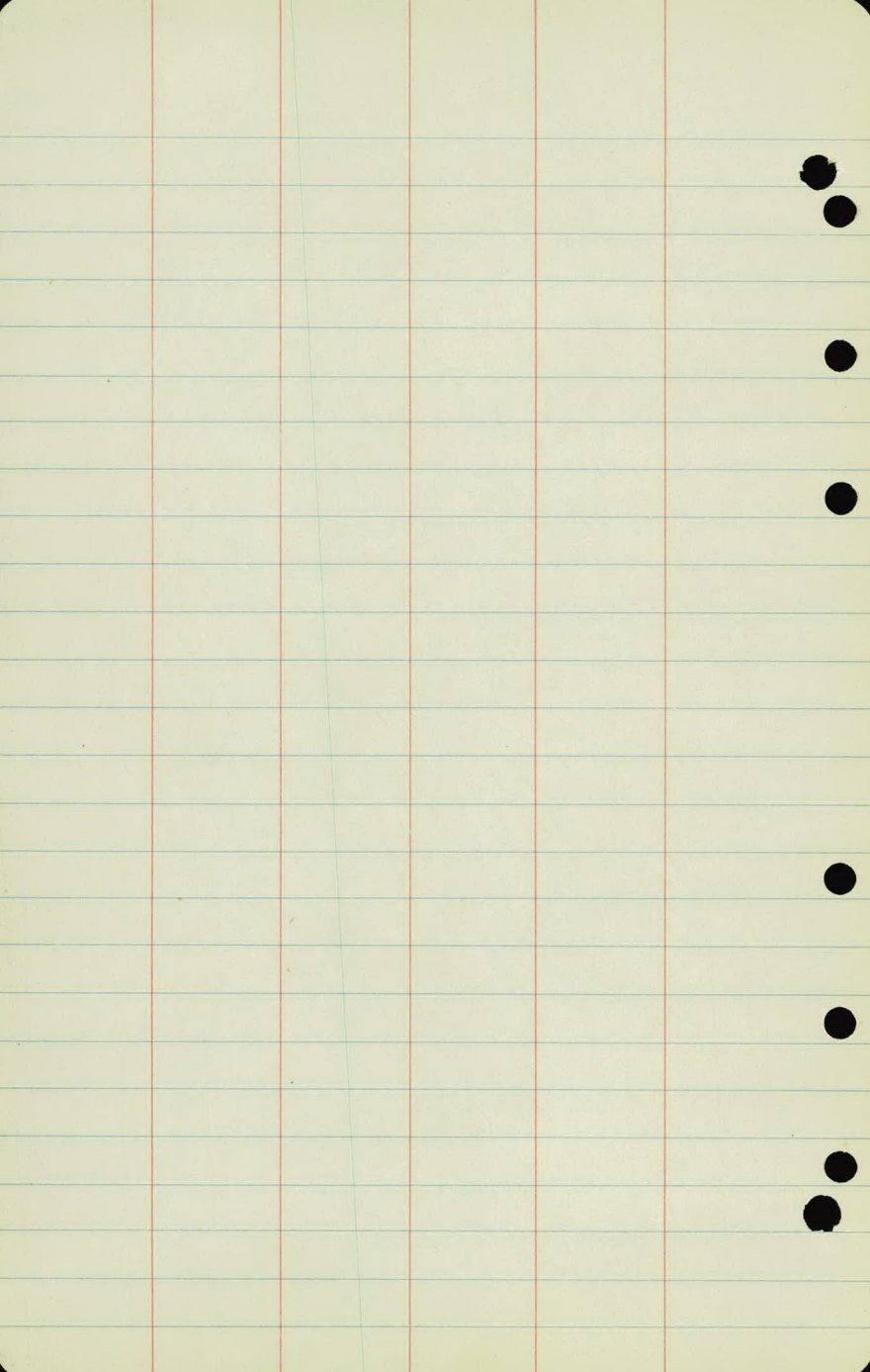
77.5	77.2	76.8	76.6
$\frac{67}{450}$	$\frac{70}{500}$	$\frac{74}{550}$	$\frac{76}{600}$

77.5	77.8	76.6	76.8
$\frac{67}{450}$	$\frac{69}{500}$	$\frac{76}{550}$	$\frac{74}{600}$

77.3	77.5	77.4	77.6
$\frac{69}{450}$	$\frac{67}{500}$	$\frac{68}{550}$	$\frac{66}{600}$

77.4
$\frac{68}{450}$

to sta 4+00 "E" Line



Soundings

Sta	Depth	Blows	Sta	Depth	Blows
3+00			3+50		
250' Rt.	0-46	Push	385' Rt.	0-355	Push
	46-48	28		355-375	30

3+20			4+00		
250' Rt.	0-52	Push	225' Rt.	0-44	Push
	52-54	32		44-46	38

3+20			4+00		
300' Rt.	0-48	Push	250' Rt.	0-50	Push
	48-52	43		50-52	53

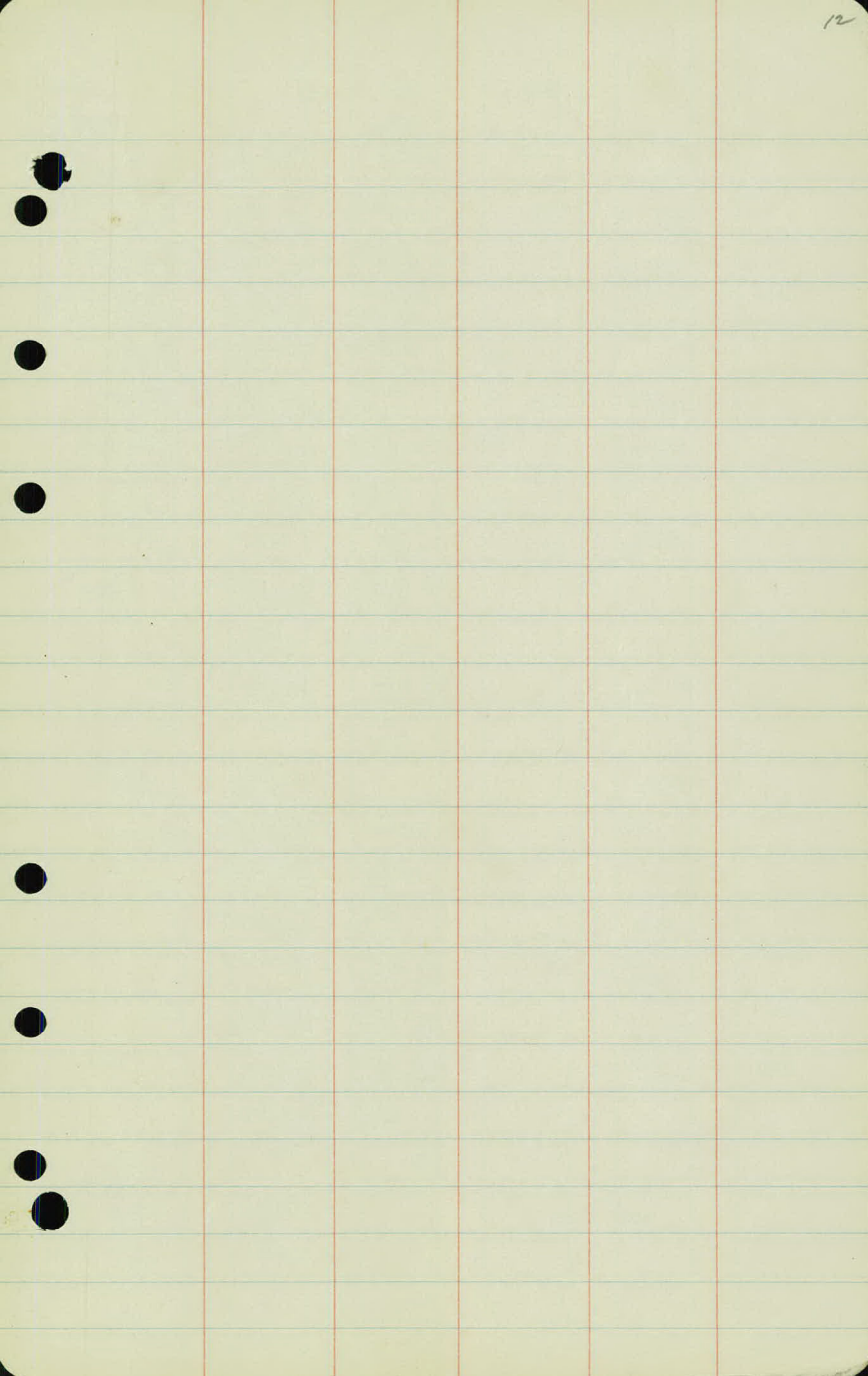
3+20			4+00		
350' Rt.	0-51	Push	300' Rt.	0-50	Push
	51-54	67		50-52	32

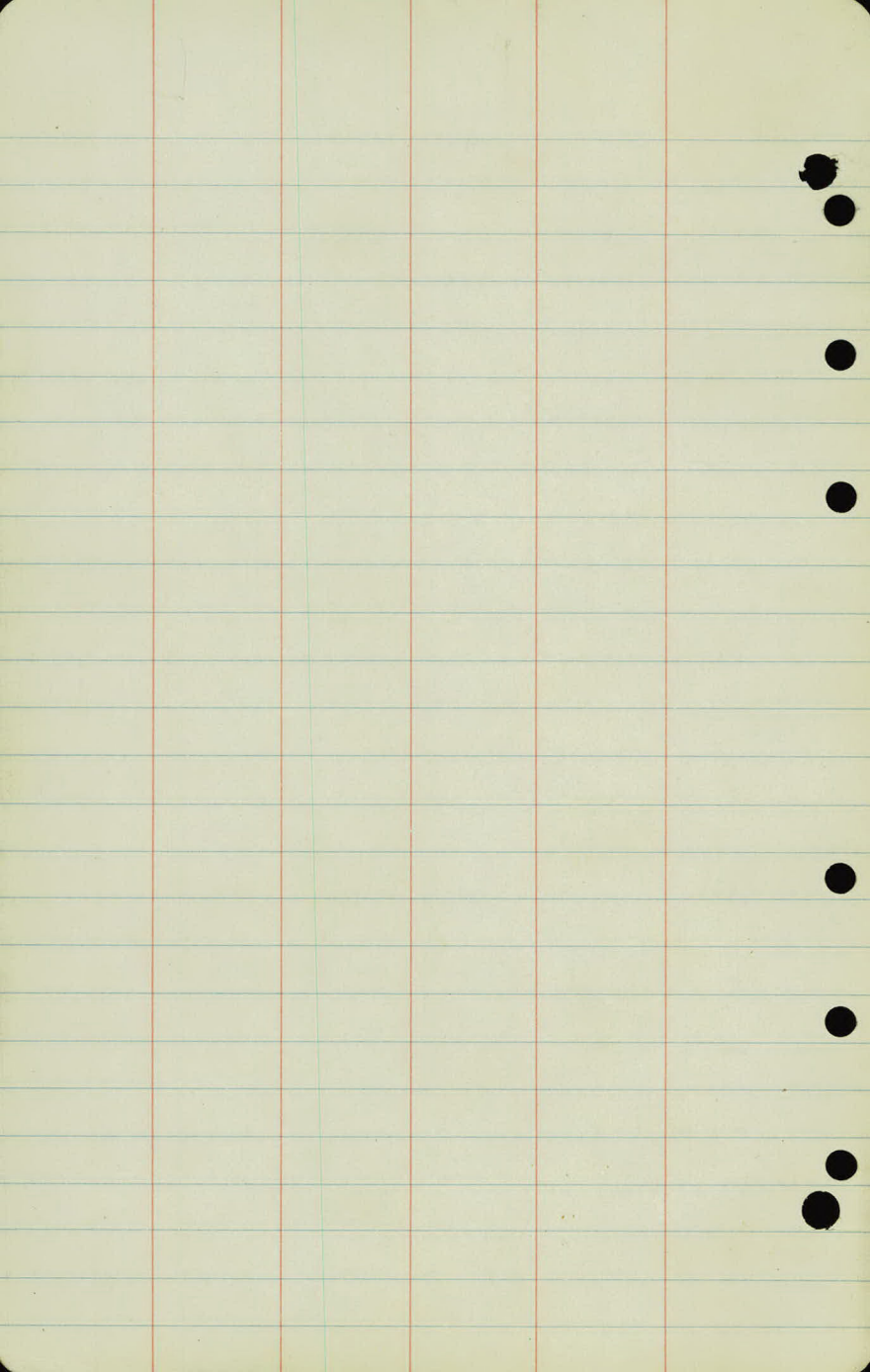
3+20			4+00		
384' Rt.	0-45	Push	350' Rt.	0-40	Push
	45-47	34		40-42	27

3+50			4+00		
200' Rt.	0-45	Push	385' Rt.	0-29.5	Push
	45-50	90		29.5-31.5	22
	50-53	70			

3+50					
250' Rt.	0-58	Push			
	58-64	80			
	64-65	30			

3+50					
350' Rt.	0-50.5	Push			
	50.5-52.5	28			





Levels
Park Area
New Brighton
6-8-39

Sta	t	π	-	Elev.
B.M.	0.98	897.40 ✓		896.42
T.P.	0.19	884.45 ✓	13.14	884.26

1 +00

+50

2

+50

3

+20

+20

+22

+35

X.A.
L.C.
L.B.H.
A.B.

6-8-39

\$

Rt.

Spt. 112 P.P.S.W. Cor. 5th 18th

81.20	80.2	79.7	79.1	78.9	78.9	78.7	78.7	78.3	78.5
<u>3.3</u>	<u>4.3</u>	<u>4.8</u>	<u>5.4</u>	<u>5.4</u>	<u>5.6</u>	<u>5.8</u>	<u>5.8</u>	<u>6.2</u>	<u>6.2</u>
59	100	150	200	250	300	350	400	450	500

80.5	79.9	79.2	78.5	78.4	78.4	78.3	78.1	77.7	77.6	77.6	77.5
<u>4.0</u>	<u>5.6</u>	<u>5.3</u>	<u>6.0</u>	<u>6.1</u>	<u>6.1</u>	<u>6.2</u>	<u>6.4</u>	<u>6.8</u>	<u>6.9</u>	<u>6.9</u>	<u>7.0</u>
56	100	150	200	250	300	350	400	450	500	550	600

79.6	78.5	78.2	78.1	78.2	78.0	78.2	78.0	77.4	77.1	77.2	76.9
<u>4.9</u>	<u>6.0</u>	<u>6.3</u>	<u>6.4</u>	<u>6.3</u>	<u>6.5</u>	<u>6.3</u>	<u>6.5</u>	<u>7.1</u>	<u>7.4</u>	<u>7.3</u>	<u>7.6</u>
55	100	150	200	250	300	350	400	450	500	550	600

77.8	77.7	77.8	77.6	77.20	76.7	76.8	77.5	77.1	76.3	76.6	76.4
<u>6.7</u>	<u>6.8</u>	<u>6.7</u>	<u>6.9</u>	<u>7.3</u>	<u>7.8</u>	<u>7.7</u>	<u>7.0</u>	<u>7.4</u>	<u>8.2</u>	<u>7.9</u>	<u>8.1</u>
52	100	150	200	250	300	350	400	450	500	550	600

77.5	77.3	77.5	76.5	76.5	77.2	77.2	76.4	77.0	76.3	76.9
<u>7.0</u>	<u>7.2</u>	<u>7.0</u>	<u>8.0</u>	<u>8.0</u>	<u>7.3</u>	<u>7.3</u>	<u>8.1</u>	<u>7.5</u>	<u>8.2</u>	<u>7.6</u>
50	100	150	250	300	350	400	450	500	550	600

77.7	78.6	78.2	78.0
<u>6.8</u>	<u>5.9</u>	<u>6.3</u>	<u>6.5</u>
250	300	350	384

79.8
<u>4.7</u>
372

80.4
<u>4.1</u>
300

Sta.	+	π	-	Elev.
		884.45		

3	+37			
---	-----	--	--	--

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

4	+00			
---	-----	--	--	--

2	+75	Special Section		
---	-----	-----------------	--	--

T.P.	13.73	897.68	0.50	893.95
------	-------	--------	------	--------

B.M.			1.27	896.41
------	--	--	------	--------

(896.42)

L

Rt

80.4

41
250

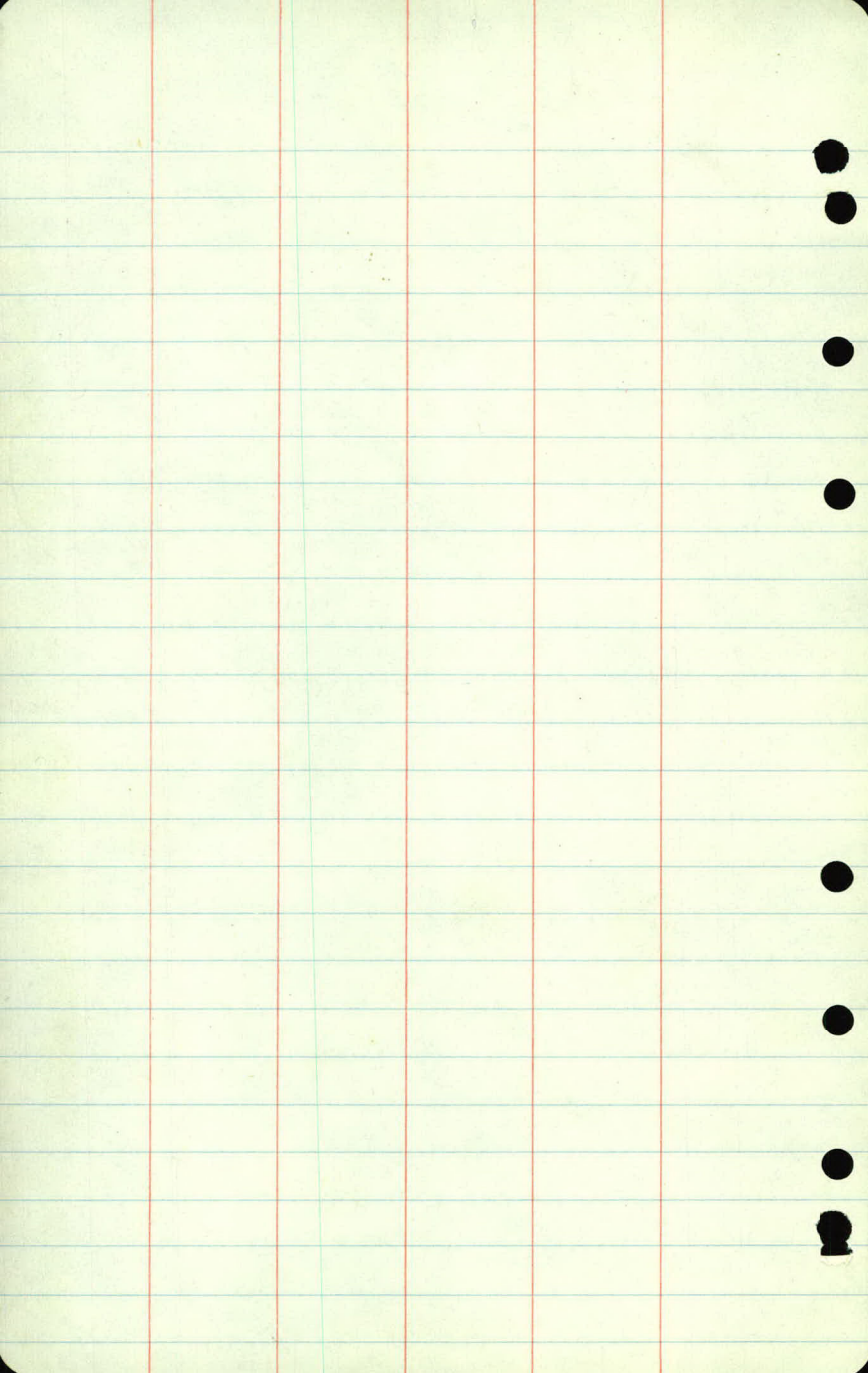
77.1	77.2	76.9	77.2	77.6	79.9	80.0	79.9	79.2	78.9	76.7	76.5
<u>74</u>	<u>73</u>	<u>76</u>	<u>73</u>	<u>69</u>	<u>46</u>	<u>45</u>	<u>46</u>	<u>53</u>	<u>56</u>	<u>78</u>	<u>80</u>
50	100	150	200	225	237	250	300	350	374	385	400

77.7	77.4	77.4	76.7
<u>68</u>	<u>71</u>	<u>71</u>	<u>78</u>
600	550	500	450

76.6	76.2	75.6	76.5	77.1	78.9	78.7	78.4	77.8	76.9	75.7	76.0	77.5
<u>79</u>	<u>83</u>	<u>89</u>	<u>80</u>	<u>74</u>	<u>56</u>	<u>58</u>	<u>61</u>	<u>67</u>	<u>76</u>	<u>88</u>	<u>88</u>	<u>70</u>
50	100	150	200	225	238	250	300	350	380	385	400	450

76.9	75.9	75.8	77.2
<u>76</u>	<u>86</u>	<u>87</u>	<u>73</u>
250	300	350	400

Spk. in P.P.S.W. Cor. 5th St. + 8th Ave.



NEW BRITTON Park Area.

Blue Tops

5/11/40

B.M.	0.64	897.06		896.42
	0.08	884.16	12.98	884.08

1
+50

2
+50

3
+50

4
T.P. 3.29 882.58 4.87 879.29

+50

A-A

+50

2

+50

B.-B

Spike P.P. S.W. Cor. 5th and 8th3.94
80.204.20
79.964.46✓
79.724.68✓
79.484.91
79.254.81
79.355.12
79.045.23✓
78.935.46✓
78.705.64
78.52✓

78.53

5.66
78.565.69
78.475.71✓
78.455.73✓
78.435.76
78.40✓6.01
78.156.09
78.076.17
77.996.24✓
77.926.30✓
77.866.36✓
77.806.42
77.746.53
77.636.64
77.526.74✓
77.426.85✓
77.316.96✓
77.206.81
77.356.96
77.207.11
77.057.26✓
76.907.41✓
76.757.56
76.60✓

7.24

7.77
76.397.59
76.577.78✓
76.387.97✓
76.198.16✓
76.00

882.58

1

+50

2

+50

5

+50

4/

B-B

+50

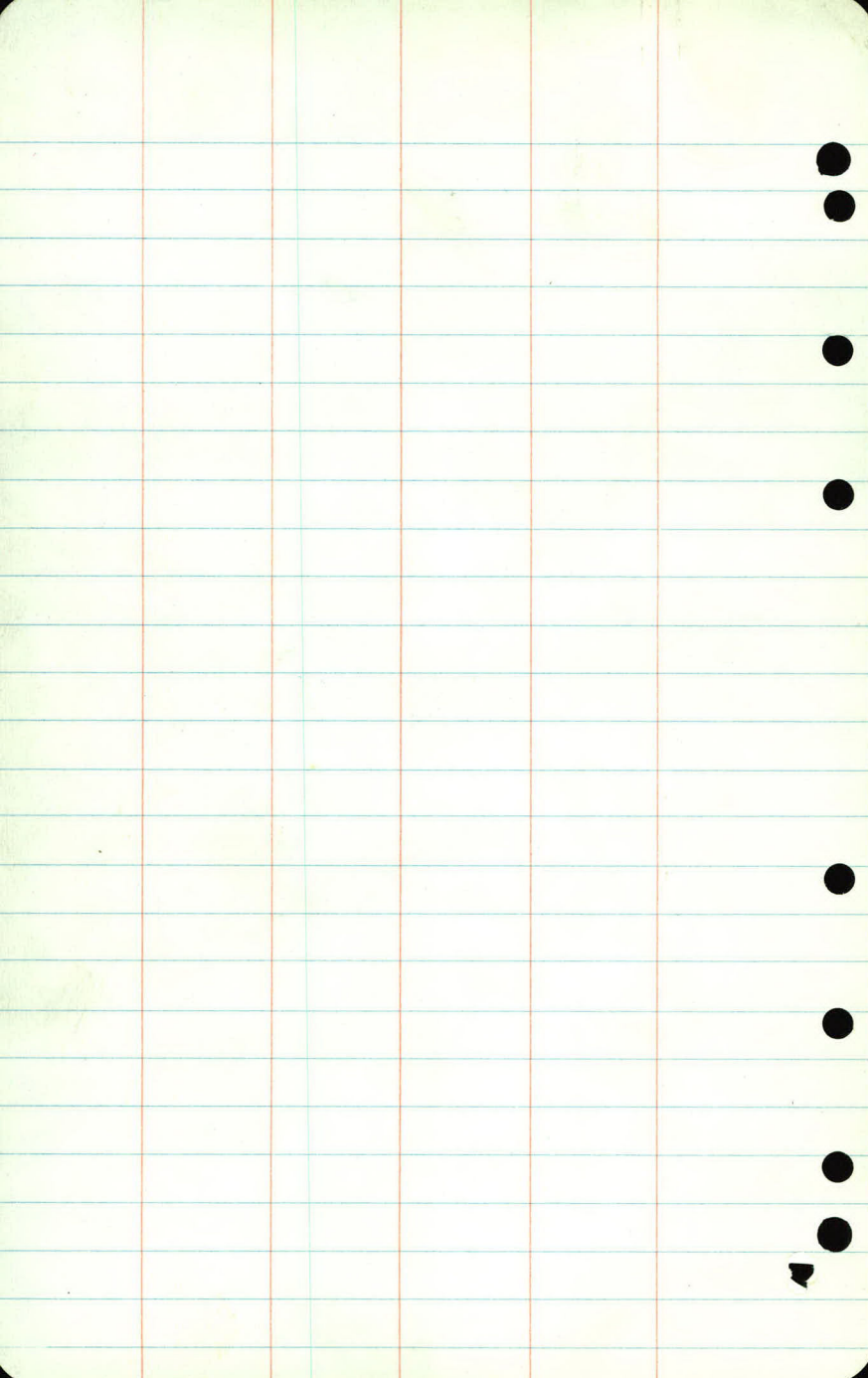
4

+50

C-C

+50

79.25	3.57✓ 79.01	3.81✓ 78.77	4.04✓ 78.54	4.28✓ 78.30	4.42✓
78.52	4.27✓ 78.31	4.47✓ 78.11	4.68✓ 77.90	4.88✓ 77.70	5.08 488
78.40	4.51✓ 78.07	4.83✓ 77.95	5.15✓ 77.43	5.48✓ 77.10	5.81 5.40✓
77.80	4.98✓ 77.60	5.17✓ 77.41	5.35✓ 77.23	5.53✓ 77.05	5.71 553✓
77.20	5.43✓ 77.15	5.48✓ 77.10	5.53✓ 77.05	5.58✓ 77.00	563 558 ✓
76.60	5.93✓ 76.65	5.82✓ 76.76	5.72✓ 76.86	5.63✓ 76.95	5.54 563
76.00	6.25✓ 76.23	6.13✓ 76.45	5.91✓ 76.67	5.68 76.9	



5/23/46

5th Ave.
Topography.

NEW BRIGHTON PARK

4

+54-End 18' C.M. X Drain - 50' +62-24' Wide Wood Weir Box -
37'-45"

3

2

1

0

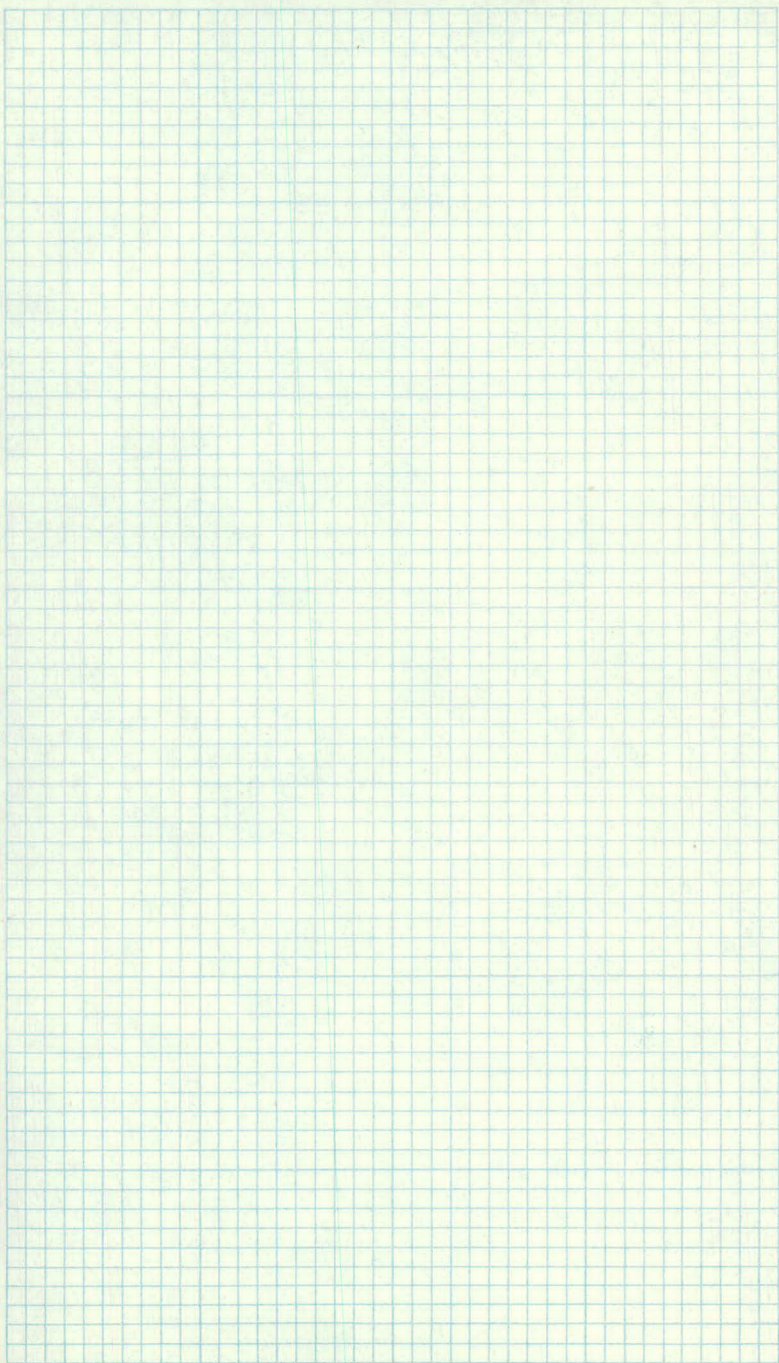
+29-Beg. W.O./E. 24'-30"
+28-Hyd.-46

5-23-46

F.L. 90' below

Sta. 3750

Ditch
Weir Box
Rocks



8th St.
Topography

#78-End 18" C.M. - 92'

6

#60-Drinking Fountains - 40'

5

4

#45-Water Pipes - 47'

#16-M.H. - 38'

3

#47-Hydr. - 35'

#58-S.D. - 29'

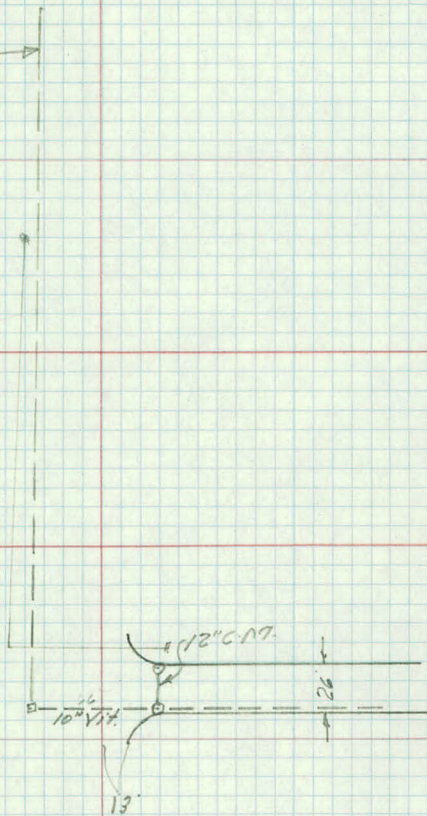
#26-Approx. E 4th Ave.

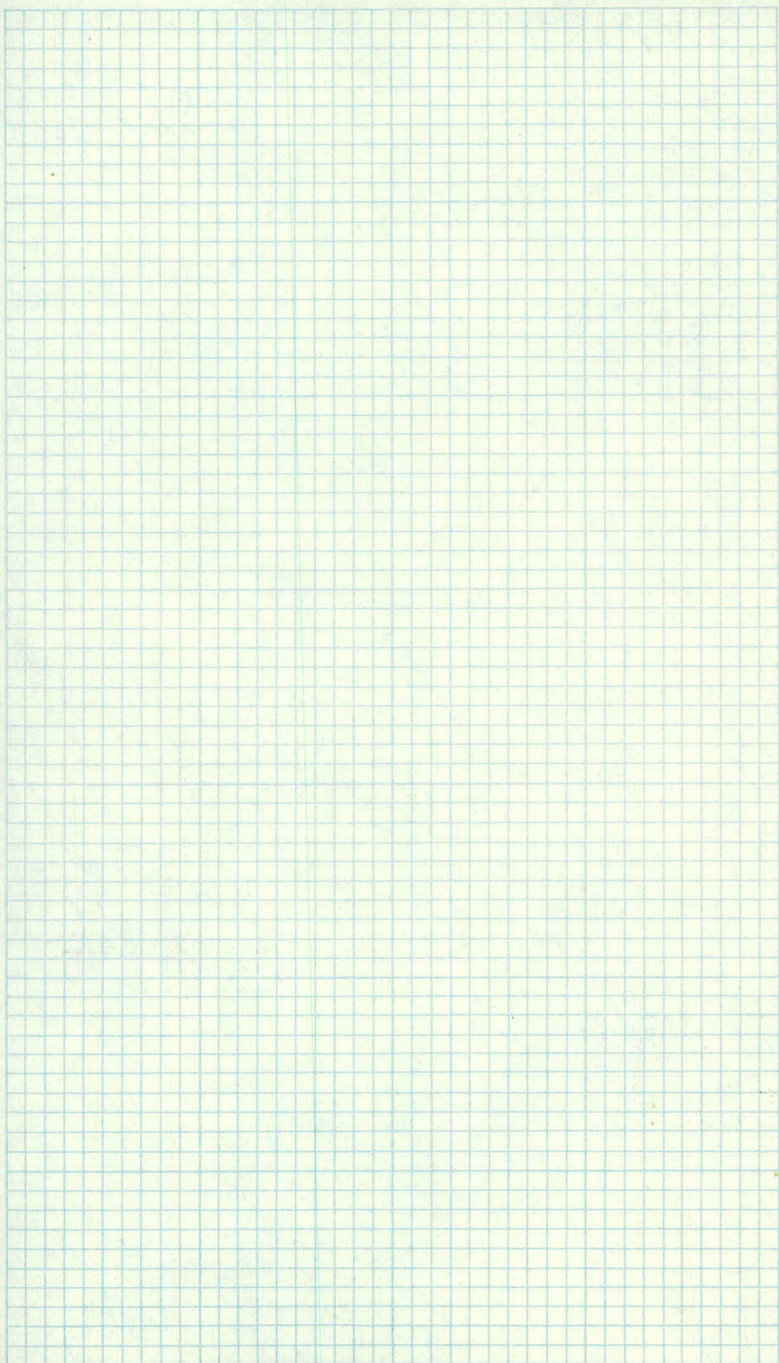
#16-S.D. - 29'

2

5-23-42

Approx 50'
18" C.M.





5/23/46

8th St.
Sewer Levels.

Sta.	+	π	-	Elev.
B.M.	4.12			

3 +16

6 +78

5-23-46

Lt.

E

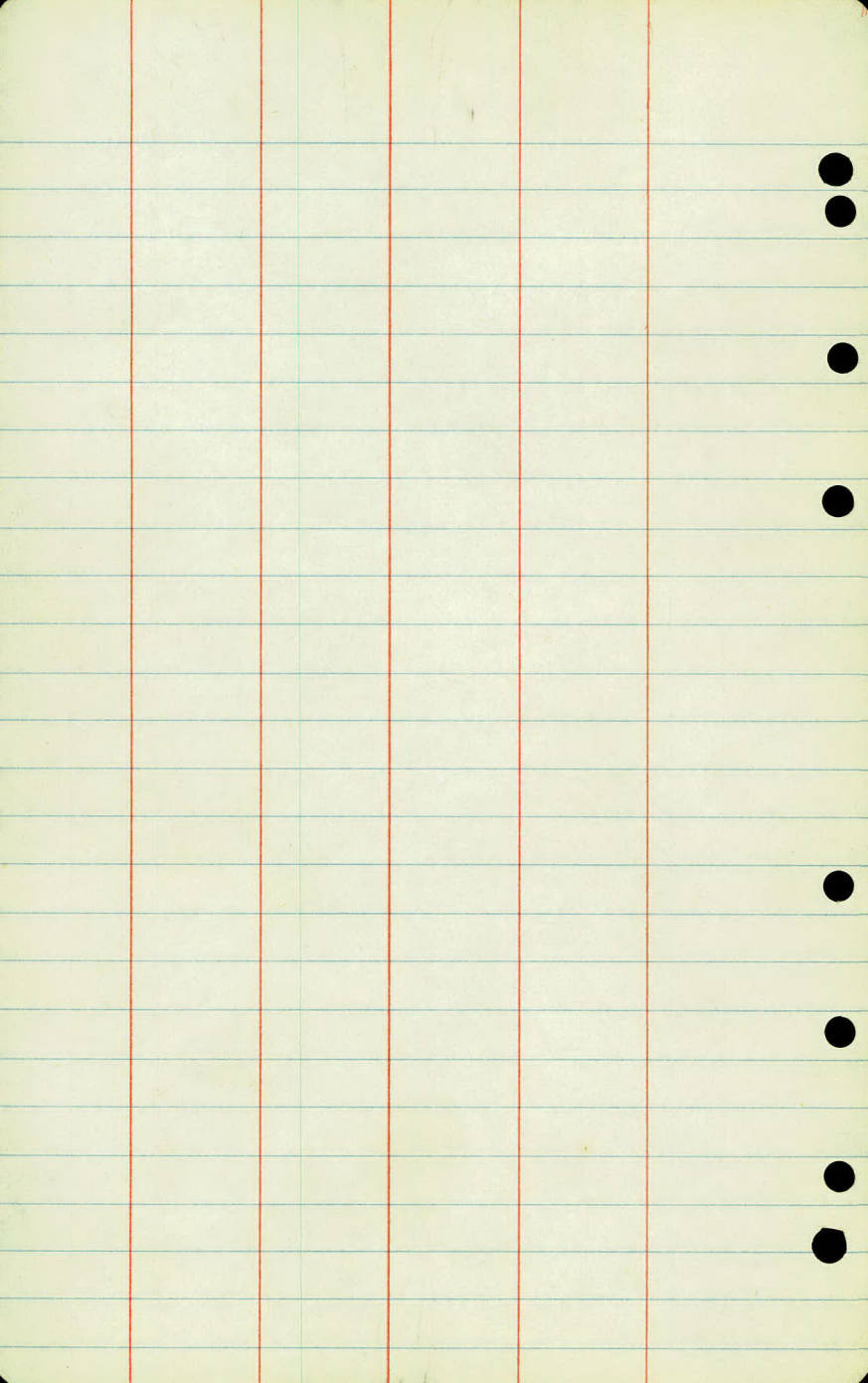
Rt.

Spt. in P.P.S.W. Cor. 8th St. + 5th Ave.

7.56 6.14
F.L.M.H. T.P.M.H.

5.60
Bottom S.D.

9.88
F.L. 18 CM.



5/17/46

1

NEW BRIGHTON PARK

X Sections

8th St. = Base Line

from

5th Ave. to 3rd Ave.

X sections are rt. angles to 8th St.

INDEX	Page
8 th St. & Park Area	1-5
3 rd Ave.	6-8
5 th Ave.	9-11

Sta	+	π	-	Elev
B.M.	0.09	896.51		896.42

0 +00 = $\frac{544}{816}$ AVE.
ST

+50

1

+50

2

+50

3

T.P.	0.99	884.53	12.91	883.54
------	------	--------	-------	--------

0 +70

5-11-46
K.A.
A.M.
M.B.
C.F.

Lt

Spk. in P.P.S.W. Cor 5th Ave. & 8th St

2

94.99

1.43

94.1 94.0 93.7 94.2 94.1

24 25 28 23 24
33 20 18 6

91.7 91.8 91.2 91.8 91.8

48 47 53 47 47
29 17 14 4

89.6 89.2 89.6

69 73 69
27 12

87.5 87.4 86.9 87.3
90 91 96 92
27 16 11

85.0 84.9 84.5 85.1
11.5 11.6 120 114
27 15 11

83.5 83.6 83.3 83.7
130 129 132 128
28 16 7

81.6 82.9
29 16
14 61

Top curb.

Sta.	+	π	-	Elev
		884.53		

1

+50

2

+50

+80

3

+07 Approx. E. Bottom ditch

+15 Approx. Top Back Slope

Ditch
4 Bottom

Lt

4

75.9	74.1	74.1	76.2	75.5	75.7	76.1	76.9	78.8	79.3	80.4	81.9
86	104	104	83	9.0	88	84	76	57	52	41	26
421	419	415	413	400	350	300	250	200	150	100	59

77.0	74.9	73.3	74.9	74.5	75.3	76.1	77.1	77.2	78.0	79.2	79.9	80.7	
75	96	112	96	100	92	84	74	73	45	53	46	38	
500	421	418	415	413	400	350	300	275	250	200	150	100	55

75.9	74.1	72.8	75.0	75.0	75.4	75.1	75.7	76.0	77.5	78.0	78.3	79.4	80.1	
86	104	117	95	95	91	94	88	85	70	65	62	51	44	
500	425	423	420	417	400	350	334	300	260	240	200	150	100	50

75.4	73.6	72.1	74.2	74.9	75.7	75.4	74.4	75.4	75.8	77.9	78.1	78.9	79.7	
91	109	124	103	96	88	91	101	91	87	66	64	56	48	
500	445	441	439	435	400	350	325	300	275	250	200	150	100	45

73.8	71.6	72.6	73.8	
107	129	119	107	
456	451	449	448	441

✓

Top BS.

1' Bottom

74.5	74.0	70.9	74.3	74.7	75.5	75.4	74.2	73.7	75.7	77.5	78.0	79.0	80.2	
100	105	136	102	98	90	91	103	108	88	70	65	55	43	
500	455	447	446	440	400	350	317	300	275	250	200	150	100	38

70.5

70.9

140 136
500 447

180 N
500 447

75.6	74.3	70.8	74.1	
89	102	137	104	
500	449	444	442	433

1' Bottom

Sta	+	π	-	Elev
		884.53		

3 +50

B.M.	0.26	884.61	2.18	882.35
------	------	--------	------	--------

4

+50

5

lt

lt

75.5 75.2 74.4 75.7 77.5 77.8 78.8 79.7 79.8 82.4 82.4
 9.0 9.3 10.1 8.8 7.0 6.7 5.7 4.8 4.7 2.1 2.1
 306 300 284 250 200 150 100 50 36 29 9

82.7
 1.8

✓

75.5 74.7 74.2 71.1 74.9 75.5
 9.0 9.8 10.3 13.4 9.6 9.0
 350 400 426 433 441 500

✓

Spt. in P.P.S.W. Cor. 3rd Ave. + 8th St.

75.3 75.2 75.5 76.2 77.2 77.7 78.8 79.4 79.5 81.7 81.5 81.8
 7.3 7.4 7.1 6.4 5.4 4.9 3.8 3.2 3.1 0.9 1.1 0.8
 400 350 300 250 200 150 100 50 36 26 10

✓

75.3 71.8 76.8 77.5
 7.3 10.8 5.8 5.1
 414 422 424 432 500

✓

76.2 75.2 75.8 76.4 77.4 78.4 79.3 79.2 81.2 81.2 81.4
 6.4 7.4 6.8 6.2 5.2 4.2 3.3 3.4 1.4 1.4 1.2
 350 300 250 200 150 100 50 35 26 7

✓

75.8 75.5 72.2 77.4 80.8
 6.8 7.1 10.4 5.2 1.8
 400 407 412 414 424 500

✓

74.1 75.8 76.2 76.1 75.4 76.2 77.1 78.4 79.3 79.5 80.9 81.0 81.2
 8.5 6.8 6.4 6.5 7.2 6.4 5.5 4.2 3.3 3.1 1.7 1.6 1.4
 400 395 350 300 250 200 150 100 50 33 26 11

✓

72.4 78.6 83.1 84.1
 10.2 4.0 4.5 4.5
 202-204 417 426 475
 4.2 4.4

Sta	+	π	-	Elev
		882.61		

5 +50

+75

6

3 +07 For Profile of ditch

Check levels

B.M.	0.52	896.94	896.42
T.P.		13.40	883.54
B.M.		14.58	882.36

Lt.

2

H.I. cont to 3rd Ave. xsections

76.5	77.4	78.4	79.3	79.3	80.7	80.7	80.9
61	5.2	4.2	3.3	33	19	19	17
200	150	100	50	31	26	10	

✓

76.1	76.6	76.2	76.2	72.9	84.8	87.2
65	6.0	6.4	6.4	9.7	12.2	14.6
250	300	350	384	390	420	450

✓

+70

 $\frac{+0.7}{412}$

83.3

79.9

73.2

76.0

2.7	9.4	66
400	89	387

✓

82.4	76.4	77.3	78.4	79.3	79.4	80.7	80.5	80.8
02	62	53	42	33	32	19	21	18
400	200	150	100	50	32	27	10	

✓

66.7	66.9	68.1	68.9	69.5	69.7	70.0
15.9	15.7	14.5	13.7	13.1	12.9	12.6
91	6	829	792	700	650	600

✓

FL.

 FL. 30" dinditch
 conc.
 culv under "F"
Spk. in P.P. S.W. cor. 8th St. & 5th Ave.

Top curb

Spk. in P.P. S.W. cor. 8th St. & 3rd Ave.

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



6
5/17/46

3rd Ave.

X Sections

8th St. - North

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

882.61

0 +00 = 8th St.

+27

+31

+50

1

+50

2

+04 24" Conc X Drain

17

4

H.I. from 8th st. X sections

80.8
18 ✓

80.4
22
22 ✓

79.8
2.9
26 ✓

79.3			
	80.1	80.0	80.0
33	25	26	26
27	23	14	

78.4			
	79.2	78.9	79.3
42	34	37	33
27	22	18	

77.3			
	78.0	77.8	78.3
53	46	48	43
27	23	12	

	76.6	77.0	77.4
	60	56	52
	38	15	

73.1		
	73.08	FL
95	9.53	
36	32	

73.88	
	FL
873	
26	

Sta + π - Elev.

882.61

2 +08



+50

3

+50

+64



+90

4 +35

T.P. 8.37 890.85 ~~0.13~~ 882.43

T.P. 8.69 898.34 1.20 889.55

B.M. 1.94 896.40

(896.42)

5-17-46

Rain

8

Lt.

d

d

76.4	74.1	76.9	✓
62	85	57	
42	37-35	23	
76.1	73.8	76.2	77.1
65	8.8	64	55 49
40	36-34	30	23
76.4	73.7	76.9	79.0
62	89	57	36 36 31
44	38-36	30	23 8

80.5	80.9	81.3	✓
2.1	1.7	1.3	
24	8		

76.6	73.4	✓
60	9.2	
45	41-39	

82.6	82.3	82.4	✓
0.0	0.3	0.2	
31	13		

86.3	83.3	82.6	83.9	84.0	83.1	83.3	✓
137	107	00	113	114	105	107	
14	74	56	46	22	17		

6 GOR floor at door

Spk in P.P. ~~5th~~ 8th

Sta

+

π

-

Elev

5/17/46⁹

5th Ave.

X Sections

8th St. - North

Sta.	+	π	-	Elev.
B.M.	0.21	896.63		(896.42)

0 +50

1 +70

1

+50

2

+50

I.P.	2.42	887.76	11.29	885.34
------	------	--------	-------	--------

3

+50

2-17-46
K.A.
A.M.
M.B.
C.F.

10

2

Bt.

Spt in P.P. S.W. Cor. 5th Ave + 8th St.

93.6	93.6	94.08	93.8
30	300	255	28
14.5	30	34	
Edge	S.W.		
Prov.			

✓

82.6
140
60

✓

91.97	91.9	92.36	92.3	81.7
466	470	427	43	14.9
	14.5	30	33	57

✓

90.27	90.17	90.54	90.3	80.8
636	646	609	63	15.8
	14.5	30	32	57

✓

88.5	88.32	88.85	79.7
810	831	778	16.9
	14.5	30	53

✓

86.74	86.57	87.05	86.9	77.8
989	1006	958	97	188
	14.5	30	32	54

✓

84.97	84.84	85.21	85.1	79.0	77.4
279	292	255	27	8.8	104
	14.5	30	32	47	52

✓

83.43	83.52	83.82	83.4
433	424	394	44
	14.5	30	30

✓

544

Sta	+	π	-	Elev
		887.76		

3 +60

+65

4 +10

+16 Spillway + 4' Bottom ditch

+30

5

T.P.	9.68	897.10	0.34	887.42
------	------	--------	------	--------

B.M.			0.66	896.44
------	--	--	------	--------

(896.42)

2

Pt.

76.9

76.9

10.9 109 = 829 ditch
52 63

77.2

74.4

74.4

76.7

106 134 134 111
50 53 57 60

82.61

82.41

82.65

82.5

77.0

74.2

77.2

76.5

515 535 511 53 108 136 106 113
145 30 32 49 52-54 58 67

82.62

82.34

79.04

74.9

74.7

82.46

82.38

514

542 972 129 131 530 538
145 33 42 63 24 30

Spillway at spillway

82.63

82.51

82.53

82.9

79.8

75.2

513 525 523 4.9 80 126 ✓
145 30 32 100 110

Fill sto.

442 54 6.4 9.1
30 73 103 114

83.34

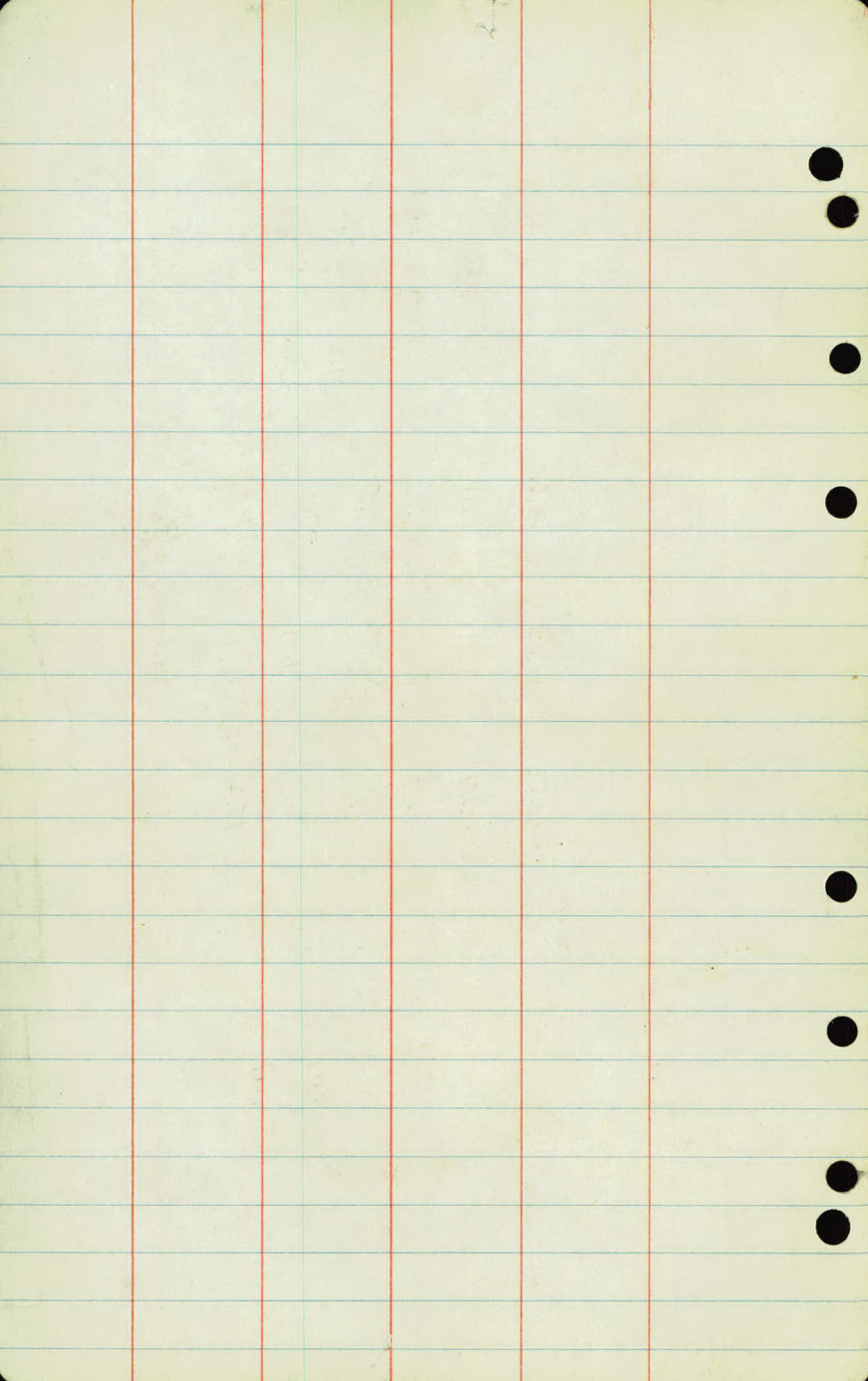
82.4

81.4

78.7

✓

Spk. in P.P.



5-23-46

12

— Additional Notes —
New Brighton Park

8th St.

Rt. 3+47 Hyd. 35'

3+45 Lt. Water Pipe 47'

5+60 Lt. Drinking Fountain 40'

Levels

Spk. S.W. 8th + 5th S.E. Cor. Park Area

4.12

896.42

4.12

H.I. El. 900.54

3+16 F.L. Rt. Btm. Surf. Drain 5.6 = El. 894.94

3+16 Lt. M.H. $\frac{6.14}{\text{TOP}}$ $\frac{7.56}{\text{F.L.}}$ = El. 892.98

6+78 Lt. End Sewer 9.88 = El. 890.66

900.54

6.14

894.40

5th Ave.

0+29 Rt. Beg. S.W. 24' & 30'

3+54 Lt. 18" C.M. X-drain 50'

3+63 Rt. & 4' Wide Wood Weir box 37' & 45'

3+50 - 9' below

8th St.

3+16 Lt. M.H. 38' ←

3+16 Rt. Surf Drain 29' 10" Vit. con.

3+38 Rt. " " 29' 12" C.M. ↓

6+78 End 18" C.M. 32' Lt. Manhole to
approx. 50' 18" C.M.

