

BK 12 Dr 13.

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Water Main Survey

Village New Brighton

~~From~~ On ~~To~~ Long Lake Rd & Front St.

Road Acc't. No.

Date Filed.

File

BK 12 Dr 13

WATER MAIN SURVEY
Village of New Brighton
LONG LAKE RD. & FRONT ST

Completed - 9-9-'40

INDEX

Alignment - 1-3
Topog - 4-8
Profile - 9-13

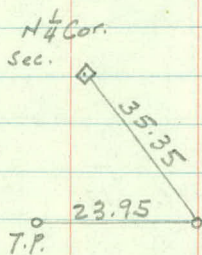
PARTY:
R. P.
A. M.
L. G.
C. F.

Plans Drawn up complete
Haw
9/16/40

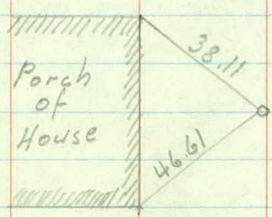
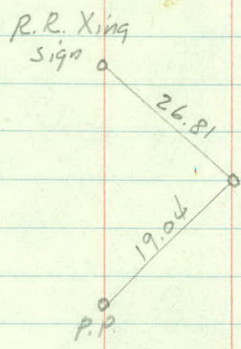
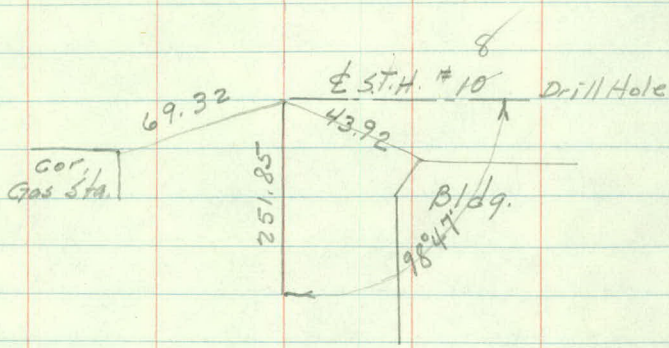
Sta.	Pt.	Lt.	Angle	Rt.	Data.
+66.80	P.T.		28°21'		
+50			25°25'		
+25			21°03'	Δ	56°43' R
20			16°40'	D	35°
19+94.50 ^{0.14}	P.I.		56°43'	T	89.75
+75			12°18'	L	162.05
+50			7°55'	R	166.275
+25			3°33'		
19+04.75	P.C.				

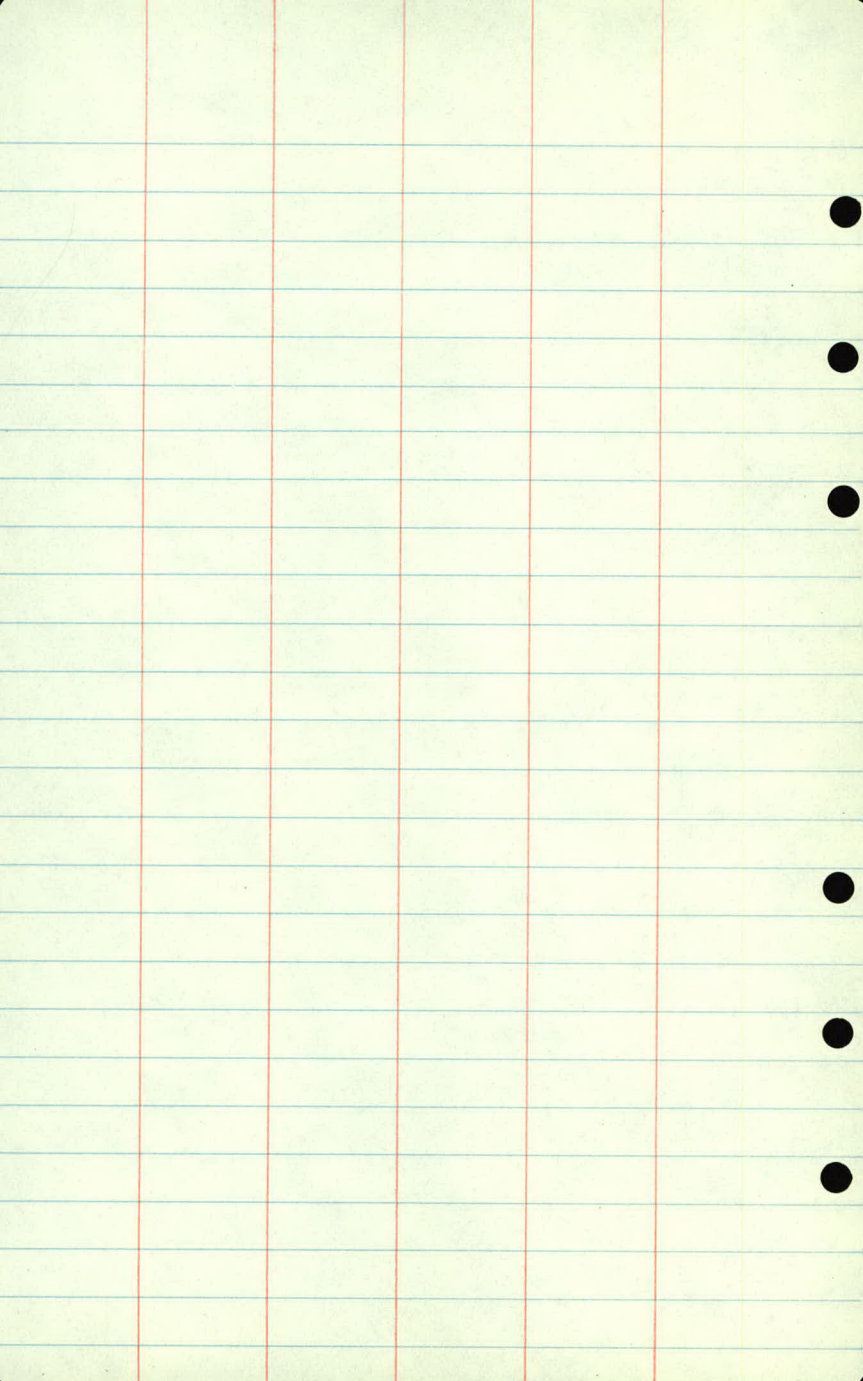
6+88.00 P.O.T.

0+00 = 0+00 Long Lake Rd. Notes.



Sta.	Pt.	Lt.	Angle Rt.	Data.
31+21.47	P.O.T.			
+95.75	P.T.		2°58'	
+50			2°30'	
29			2°00'	Δ 5°56' Rt.
+50			1°30'	D 2°
28+47.55	P.I.		5°56'	T 148.47
28			1°00'	L 296.67
+50			0°30'	R 2864.93
26+99.08	P.C.			
+96.95	P.T.		17°54'	
+50			14°23'	Δ 35°48' Rt.
26			10°38'	D 15°
25+82.01	P.I.		35°48'	T 123.73
+50			6°53'	L 238.67
25			3°08'	R 383.065
24+58.25	P.C.			





Topography
Water Main Survey
Long Lake Rd - Front St.

12

11

10

9

8

7
+ 88

6

Note: Red Line Denotes Approximate Location for
Proposed Main.

21

Toe 19 Toe 23

6

Toe 19 Toe 23

+49 P.P. 27.4

Toe 19 Toe 23

Toe 19 Toe 23

+82 P.P. 28.3

+10 Rad Curb 40
Rad Curb 30

+27 P.P. 27.7

Curb 30

+34 Rad Curb 30
+24 Rad Curb 40

+06 Rad Curb 40
+76 Rad Curb 30

+88 Hyd. 37.1
+88 Curb 30

21

19

18

17

16

15

14

13

+75 Toe 19 Toe 23

+51 P.P. 22

+50 Toe 20 Toe 24

+25 Toe 20 Toe 24

Toe 19 Toe 23

Toe 19 Toe 23

+89 P.P. 27.2

Toe 19 Toe 23

+36 P.P. 27.5

Toe 19 - Toe 23

Toe 19 Toe 23

+79 P.P. 27.5

Toe 19 Toe 23

+28 P.P. 27.5

Toe 19 Toe 23

26

25

24

23

22

21

20

+86 Toe 19-21 33

+50 Toe 24 26 30

Toe 26 29 33

+50 Toe - 27 29 33

Toe 24 26 31

+50 Toe 21 23 27

21 Toe 17 ²¹ Toe 25

+50 Toe 17 Toe 25

Toe Fill 19

+50 Toe Fill 24

Toe Fill 19

+50 Toe 16 Toe 29

+33 P.P. 25.2

+25 Toe 18 Toe 26

Toe 19 Toe 23

32

31

30

29

28

+91- ϕ R.R. Track

27

+21 Hyd 23.8

+90 P.P. 27.7

+7

+28 P.P. 27.2

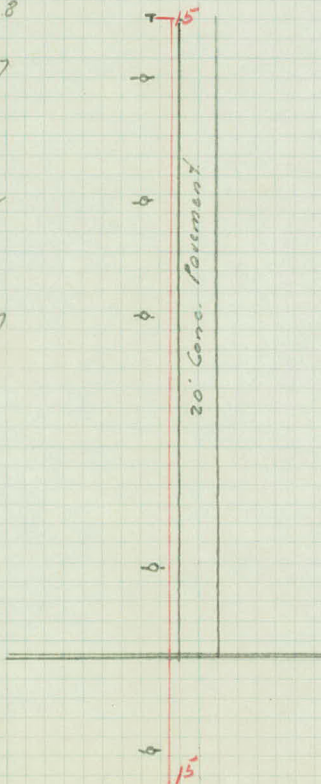
+69 P.P. 26.7

+39 P.P. 21.0

+50 Toe Fill 36

+43 P.P. 21.2

+26 Toe Fill 33





Profile Levels
Water Main Survey

Long Lake Rd. Front St.

Note - Profile taken at
Red Penciled Dist. from $\frac{1}{2}$
See Topog.

Sta.	+	π	-	Elev.
B.M.	4.74	9 11 .22		906.48
6+88			$\frac{6.4}{21}$	04.8
7			6.2	05.0
+50			6.7	04.5 05.5
8			6.7	04.5 05.5
+50			6.1	05.1
9			5.8	05.4
+50			5.2	06.0
10			5.0	06.2
+50			4.5	06.7
11			3.9	07.3
+50			4.4	06.8
12			$\frac{4.5}{21}$	06.7
T.P.	1.41	909.61.	3.02	908.20.

Tap Water Table - Schoolhouse

Sto.	*	π	-	E/cv.
		909.61		
12 + 50			$\frac{3.4}{21}$	06.2.
13			4.3	05.3.
+ 50			5.5	04.1.
14			6.5	03.1.
+ 50			8.0	01.6.
15			9.5	00.1.
+ 50			10.6	99.0.
16			12.4	97.2.
+ 50			13.7	95.9.
T.P.	1.70	899.52	11.79	897.82.
17			5.2	94.3.
+ 50			6.9	92.6.
18			$\frac{8.4}{21}$	91.1.

Sta.	+	π	-	Elev.
		899.52		
18+50			$\frac{9.6}{21}$	89.9
19			10.9	88.6.
+50			11.8	87.7.
20			12.4	87.1.
B.M.	4.80	891.96	12.38	887.14 (887.16)
+50			6.0	86.0.
21			3.4	88.6.
+50			4.6	87.4.
22			5.9	86.1.
+50			8.8	83.2.
23			8.4	83.6.
+50			7.9	84.1.
24			$\frac{8.0}{21}$	84.0.

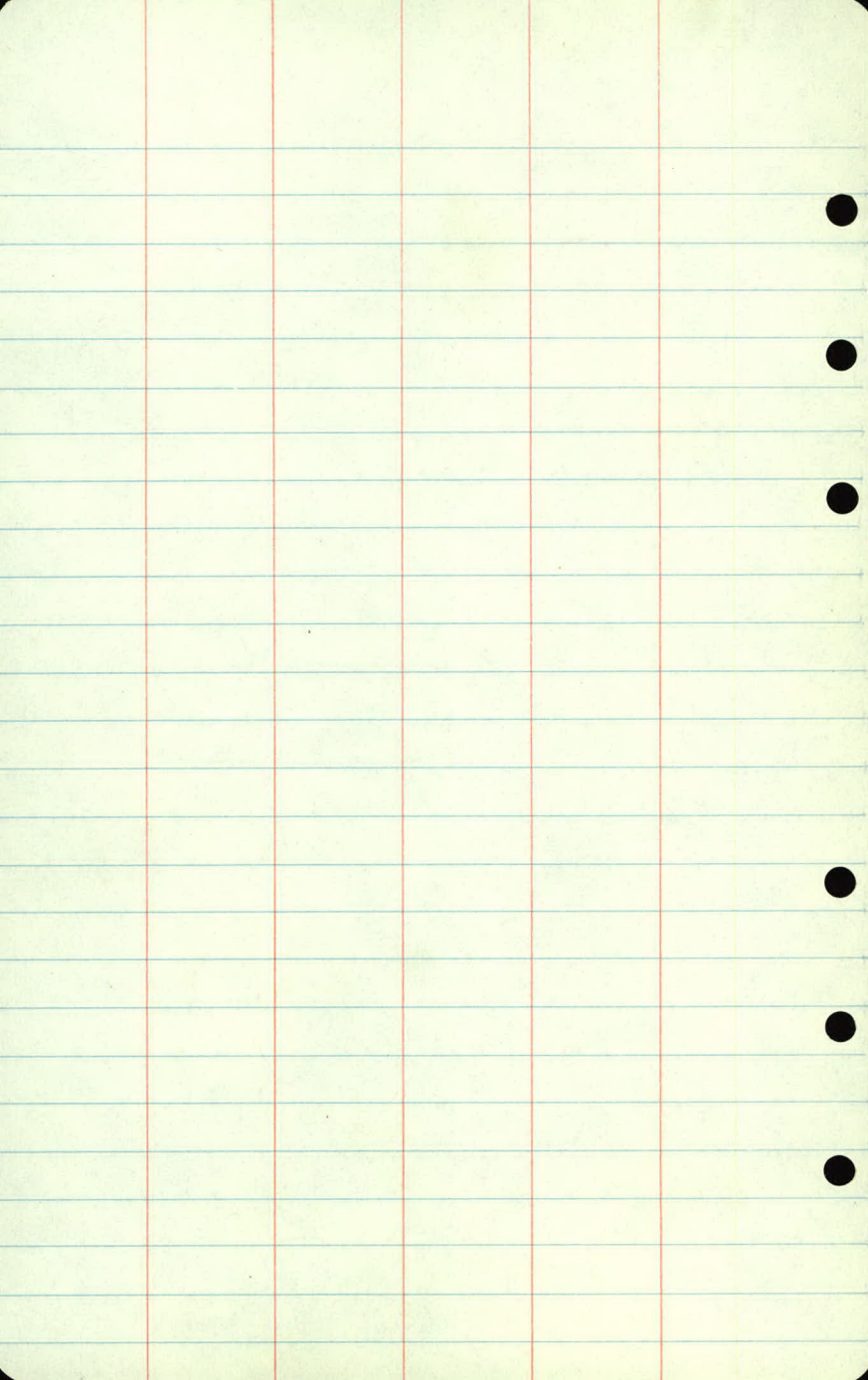
Top Mon.

Top Hill
99/25

Top Hill

Sta.	+	π	-	Elev.
		891.96		
24 + 50			$\frac{8.0}{23}$	84.0
25			$\frac{7.7}{26}$	84.3 83.3
+ 50			$\frac{8.1}{29}$	83.9 82.9
26 + 50			$\frac{8.9}{29}$	83.1 82.1
+ 50			$\frac{8.5}{26}$	83.5 82.5
26 + 86			$\frac{7.2}{27}$	84.8
27 + 26			$\frac{6.2}{25}$	85.8
+ 50			6.0	86.0
28			5.7	86.3
T.P.	4.66	890.66	5.96	886.00 889.00
+ 50			4.4	86.3 89.3
29			4.9	85.8 88.8
+ 50			5.0	85.7 88.7
30			5.3	85.4 88.4
+ 50			5.7	85.0 88.0
31			6.0	84.7 87.7
+ 21.47			$\frac{6.0}{15}$	87.7
B.M.			3.56	890.10
				887.10

Top Hyd. 23.8' Lt. Sta. 31 + 21.47



Additional Topog.

Water Main Survey

LONG LAKE RD. - FRONT ST.

18

+51 Cor. Ho. 67

+31 Cor. Ho. 67

17

13

+82 Cor. Ho. 46
+71 Cor. Ho. 46-53
+60 Cor. Ho. 53

12

+47 Cor. Ho. 52

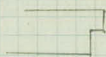
+25 Cor. Ho. 52

11

+14 Cor. Ho. -69

8
+90 Cor. Ho. -69

7



26
+ 92 Cor. Ho. 57

+ 50 Cor. Ho. 55

25 + 02 Cor. Ho. 55

+ 77 Cor. Ho. 55

24

22

21 + 07

+ 07 Cor. Ho. 89

+ 43 Cor. Ho. 120
+ 37 Cor. Ho. 125
+ 32 Cor. Ho. 118
+ 27 Cor. Ho. 130

+ 67 Cor. Ho. 87

10



unoccupied



