Bk. 24 Dr. 12

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

~~Plat~~ Survey
Drainage
Ditch From No Side
~~From~~ Mississippi To Lak Vadnais

Road Acc't. No.

Date Filed 6-11-41 File

PLAN SURVEY

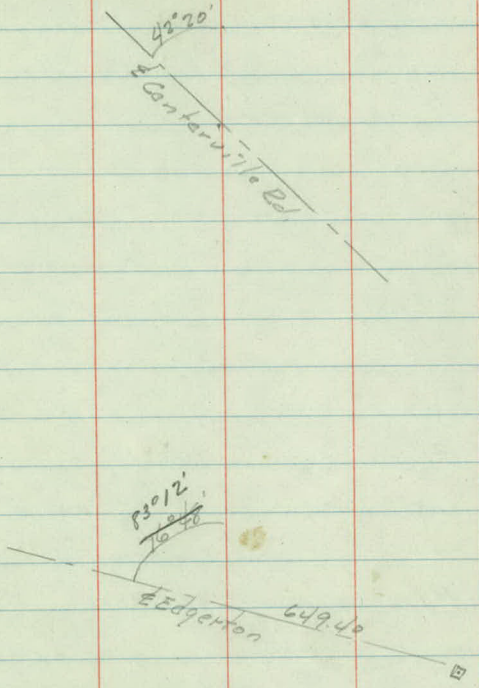
DITCH

LAKE VADNAIS to MISSISSIPPI ST.

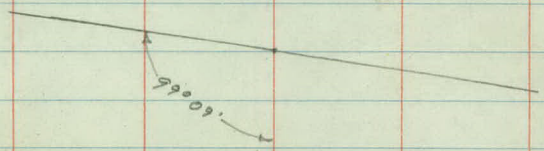
INDEX Page

Alignment

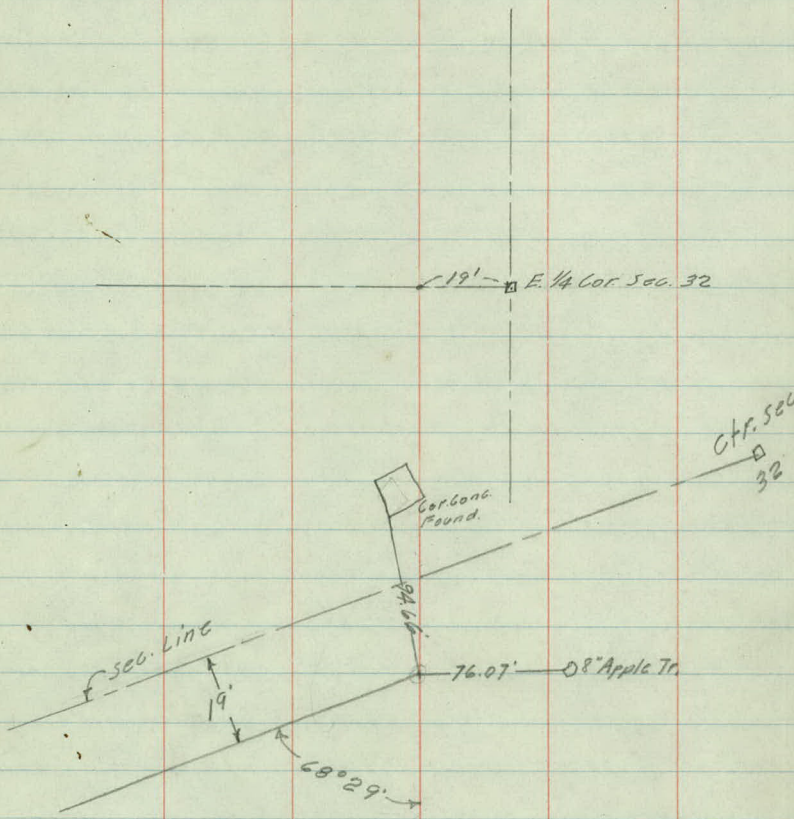
Sta	pt.	Angle Lt.	Angle Rt.	
5+68.51	P.I.	36°34' Lt.		
5+03.70	P.O.T.		℄ Centerville Rd.	
4+36.55	P.I.		46°12' Rt.	
2+59.08	P.I.	33°45' Lt.		
1+78.74	P.I.		9°40' Rt.	E End Culv.
1+46.66	P.O.T.	℄ Edgerton St =		K. Ankers Survey Edgerton from Centerville 94.48
1+13.26	P.I.	6°44' Lt.		W End Culv.
0+00	P.O.T.			


42°20'
Canterville Rd
83°12'
Edgerton
649.4'

Sta.	Pt.	Lt Angle	Rt
14+03.4	P.I.	6°31'	
13+38.5			15°42' Rt.
11+20.5	P.I.		12°26' Rt.
10+31.00	P.I.		14°54' Rt.
9+93.5	P.I.		74°48' Rt.
8+29.1	P.I.		13°08' Rt.
7+35.70	P.I.	10°47' Lt	
7+09.1	P.I.	29°56' Lt	
6+98.08	P.O.T. = ℄ R.R. Track.		
6+70.00	P.I.		58°07' Rt


99009.

Sta	Point	Δ Lt.	Δ Rt.
38 +22.30	P.I.	0°08'30"	
17 +34.55	P.I.		
15 +37.0	P.I.	9°09'	


19'
E. 1/4 Cor. Sec. 32
Ctr. Sec. 32
Cor. Conc. Found.
94.66'
Sec. Line
19'
76.07'
8" Apple Tr.
68°29'

Topography

Note: See X Sections to spot ditch.

+50-Δ in Fc-5'

5 +27-Δ in Fc.-00 +20-G.R. X-St +05-TP-27'
Fc.-45 G.R.-18' Fc-23'

+80-G.R. X-St

+64.04=℄ + End Barrel Mono. Conc. 4' Wide 6' Deep.

+36-Δ in Fc.-8'

4 Fc.-8'

3 Fc-3' G.R-23'

+76-Δ in Fc.-1'
+67-Δ in G.R-20'
+59-Δ in G.R-19'
+63-Δ in Fc.-5' +46-Δ in G.R-22'

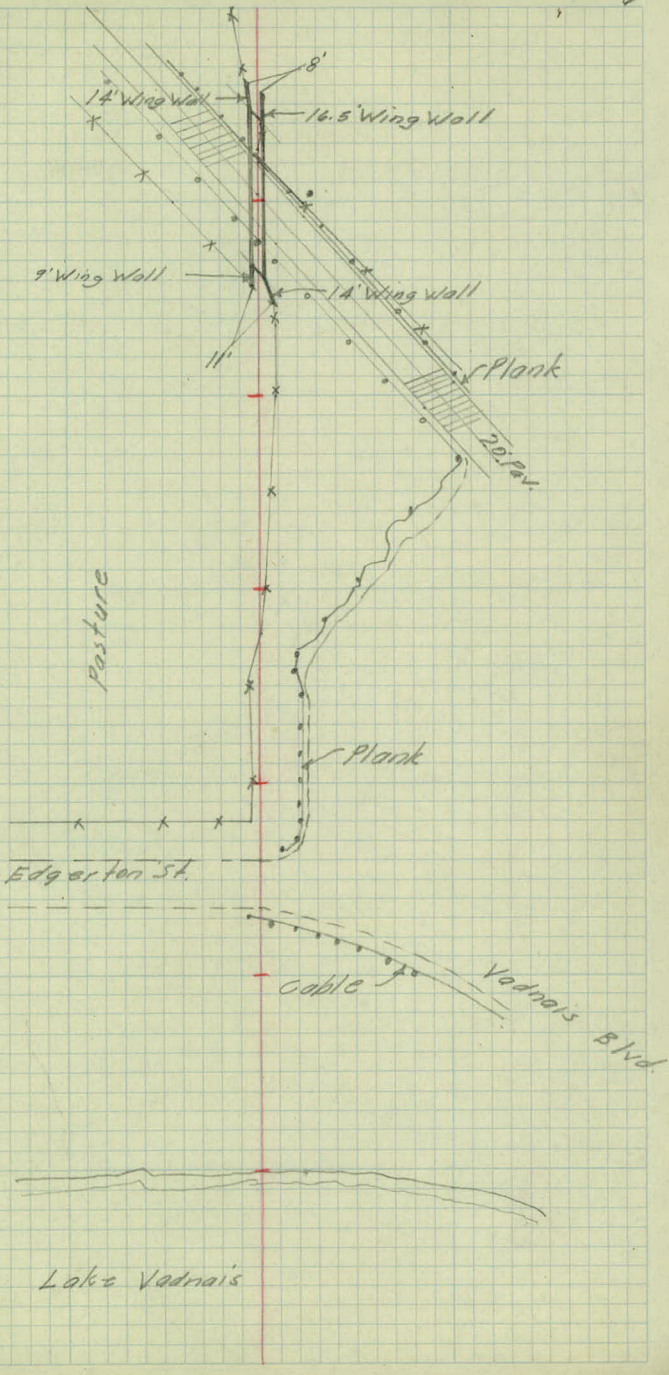
2 Fc.-4' G.R-21'

+79-Fc. Cor.-5' +80-Δ in G.R.-21'
+60-Fdse Rd. +66-Beg G.R-12'

+30-End G.R.-6'
+13-℄ Drive-25' +25-G.R.-17'

1

0+00 ℄ Drive -30'


8'
14' Wing Wall
16.5' Wing Wall
9' Wing Wall
14' Wing Wall
11'
Plank
20' Pav.
Pasture
Plank
Edgerton St.
Cable
Vadnais Blvd.
Lake Vadnais

12' Fc. - 3'

11 Fc. - 4'

+33 - Fc. Cor. - 13' E + W. Fc +34 - Fc. Cor. - 10'

10 Fc. - 26'

+27 - Δ in Fc. - 12'
+18 - Range Tie to Fc. -
9 Fc. - 11' Fc. - 55

+30 - Fc. - 14'

8

+76 - Δ in Fc - 25'

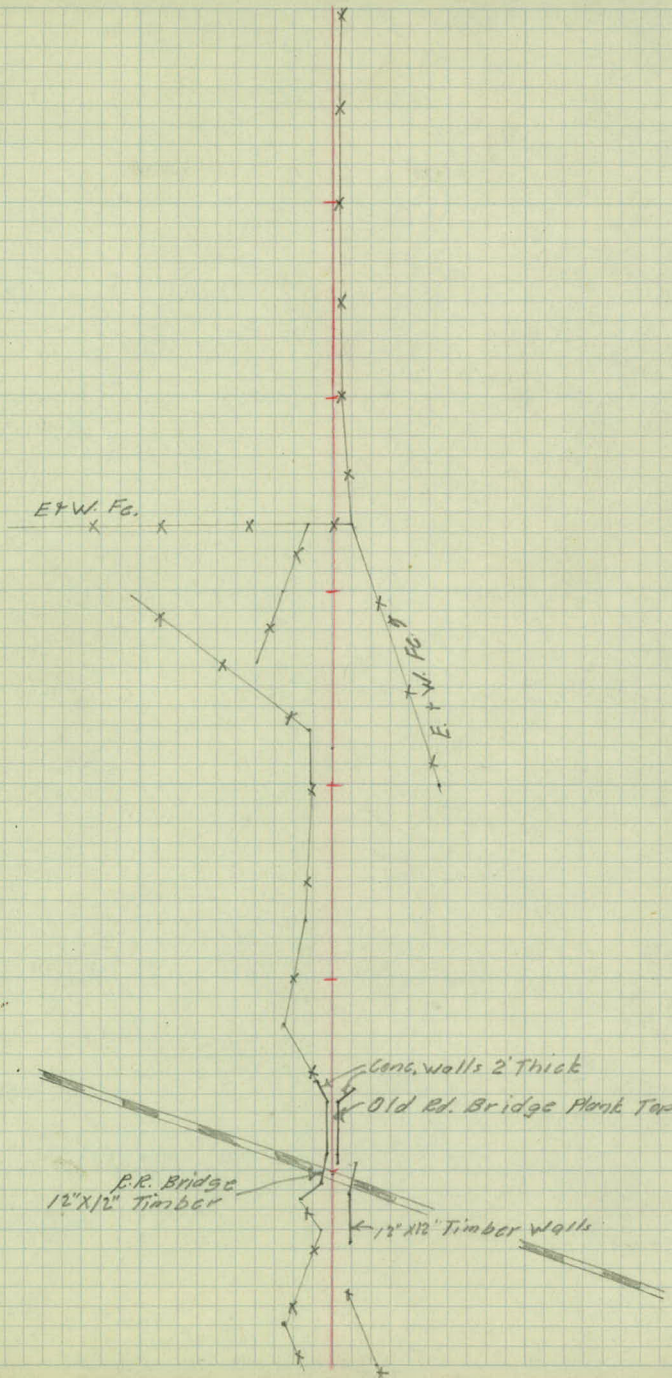
+46 - End Wing Wall - 9' Fc - 11' +42 - End Wing Wall. - 11.3'
+36.5 - End Barrel - 3.2' 3.3

+09.1 - Δ in Conc. Wall - 3.3'
+4.5 Bes. Conc. Wall - 35
+03 - End Timber Wall. - 12'
+09.1 - Bes. Conc. Wall - 3'
7'
+92 - Δ in Wall - 6'
+85 - End Wing Wall. - 17' +88 - Δ in Wall - 9'

+70 - Δ in Fc - 5' +42 - End Wing Wall - 9

+38 - End Fc - 8'
+21 - Δ in Fc + T.P. - 25'

6 Fc - 2.2'


E & W. Fc.
E & W. Fc.
Conc. Walls 2' Thick
Old Rd. Bridge Plank Top
R.R. Bridge
12"X12" Timber
12"X12" Timber Walls

+96-End-15"X21'C.M-1'

19'

+97-End-18"X20'C.M.-1'

+54-S.W. Cor Ho.-55'

18

17

+89-End Fc-9'

16

+98-Beg. Fc-5'

off Fore Targ.
+37-PP-47'

+18-Power Line X's 6

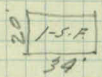
15

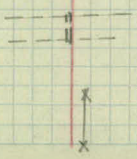
14

+69-End 24" C.M.-2'
+53-End 24" C.M-1.5'

+28-End Fc.-7'
Fc-5'

13


20'
I-S.A
30'



26

25

24

23

+60 - Ent. $\frac{12'' \times 16'' \text{GM}}{00}$

22

21

20

+09 - S.W. Cor HO - 54'


2.5
2.5+5
7.5

43 +07 Ent. - 15"X20 C.M. / 00

42 Ent. 12"X21'6.M / 00

+56 - S.W Cor Ho. - 59'
+41 - Ent. - 12"X22'6M / 1'

41
+95 - S.W Cor. Ho. - 97'

+19 - End 12"C.M. - 0.0
40 +02 - S.W Cor Ho - 83'
+78 - N.W. Cor. Ho. - 93'

+71 - End 12"C.M. - 00

+35 - S.W. Cor. Ho - 94' ⌐
+37 N.W. Cor. Ho. - 91' ⌐

39

+78 - S.W. Cor. Ho. - 147' ⌐

+33 - Ent. - 12"X37'C.M. / 00

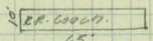
38


24'
1-S-F.
26'


31'
1-S-F.
34'


22'
1-S-F.
26'


1-S-F.
20
16'


10'
CR. CONCR.
45'


26'
1-S-F.
22'


1-S-F.
21'
28'


32'
1-S-F.
16'

+27-S.W.Cor.Ho.-56'

+35-N.W.Cor.Ho.-89'


2'
1-5F
24


1-5F
24'
30'

Levels.

Sta.	+	=	−	Elev.	
B.M.	7.51	896.60			(889.09)
Elev. Lake Vadnais			1491	81.69	
0 +00			14.8	881.8	
+50			13.8	82.8	
1			15.3	81.3	
+13.26			15.4	81.2	
+13.26			15.58	81.02	
+14			12.4	84.2	
+23			7.2	89.4	
+28			5.0	91.6	
+96.6			5.5	91.1	
+75			11.2	85.4	

Lt. & Rt.

Top N. End Conc. ctr. Pier of Bridge Edgerton St. & C.B. Bridge

~~Note: These levels are 0.43 higher than the Mississippi St. levels.~~

Ground

Flow Line 30" Conc. Culv.

Sta	+	π	−	Elev
		896.60		
1	+78.74		15.4	81.2
	+78.74		15.8	80.8
2			13.2	83.4
	+50		13.3	83.3
	+59.08		12.4	84.2
3			10.7	85.9
	+50		10.2	86.4
4			10.9	85.7
	+36.55		10.0	86.6
	+54.5		9.8	86.8
	+64		9.9	86.7

Flow Line 30" Conc. C4N.

Ground.

Note: Drainage seems to spread out to the N.W. and W. to Edgerton St. then thru X Drain. & levels are not always at the low point. From sta 4+25 West.

From sta 4+25

at End of wing walls.

at End of Barrel. } Flow Line

Sta	+	π	−	Elev.
		896.60		
4 +64			2.2	94.4
T.P.	12.86	905.53	3.93	892.67
+80			4.6	00.9
5 +03.7			4.0	01.5
+25			3.2	02.3
+42			7.6	97.9
+42			17.7	87.8
+68			17.5	88.0
6			16.5	89.0
+40			14.9	90.6
+70			13.0	92.5
7 +09.1			11.7	93.8
T.P.	9.03	913.49	1.07	904.46

Top H.W.

= & Centerville Rd.

Top H.W.

End Barrel Flow Line

Top Timber

Sta	+	H	−	Elev.	
		913.49			
7	+35.7		17.9	95.6	
	+68		17.1	96.4	
8			15.4	98.1	
	+29.1		15.8	97.7	
	+63		15.4	98.1	
9			13.2	00.3	
	+47		11.7	01.8	
	+93.5		9.5	04.0	
10				04.6	03.9
	+31			04.1	
	+64			04.7	

Lt. 2 Rt.

Flow Line End Barrel

98 48 W 9 5 1 0 W 5 7 11 W 5W 10W

$\frac{42}{100}$ $\frac{48}{50}$ $\frac{51}{24}$ $\frac{48}{11}$ $\frac{69}{7}$ $\frac{82}{3}$ $\frac{96}{2}$ $\frac{89}{}$ $\frac{88}{3}$ $\frac{72}{5}$ $\frac{65}{9}$ $\frac{55}{20}$ $\frac{53}{50}$ $\frac{49}{100}$ $\frac{47}{150}$ $\frac{37}{200}$

Reverse sides

$\frac{47}{100}$ $\frac{48}{55}$ $\frac{54}{24}$ $\frac{65}{11}$ $\frac{74}{8}$ $\frac{82}{2}$ $\frac{94}{1}$ $\frac{94}{}$ $\frac{94}{1}$ $\frac{82}{1}$ $\frac{67}{7}$ $\frac{50}{9}$ $\frac{51}{14}$ $\frac{50}{46}$ $\frac{38}{100}$

Reverse sides

$\frac{34}{100}$ $\frac{43}{50}$ $\frac{46}{21}$ $\frac{46}{8}$ $\frac{48}{6}$ $\frac{58}{3}$ $\frac{58}{}$ $\frac{70}{4}$ $\frac{59}{5}$ $\frac{51}{8}$ $\frac{50}{19}$ $\frac{45}{63}$ $\frac{42}{100}$

Sta	+	π	−	Elev	
		913.49			
11				04.6	04.3
+50				06.9	04.7
12				06.6	05.1
+50				06.4	05.8
13				05.9	
T.P.	8.04	915.55	5.98	907.51	
+53.0				06.4	
+69					
14				06.4	
+50				06.9	
15				07.1	
+50				07.2	

Lt. Ctr. Rt.

Ctr. 3

0

35/100 37/85 41/55 44/30 50/7 92/2 89 50/5 54/18 44/60 41/100

38/100 41/32 46/8 88/5 88/2 46 37/5 44/15 41/58 39/100

35/100 37/60 38/32 42/9 84/4 84/2 49 39/2 45/14 41/58 38/58

35/100 40/62 39/31 44/8 77/4 77/2 71 37/5 45/19 40/63 36/100

38/100 37/49 40/23 36/8 76/3 76 32/8 40/22 38/66 36/100

Top N. End Gelv.
(10.04 / 1.5 Fl. 24"C.M.)
05.51

63/100 63/75 59/32 62/4 92/3 92 74/1 57/5 57/24 58/60 57/100

(Fl. 24"C.M. 10.0/2') 05.55

60/100 61/57 62/18 51/8 92/25 92 92/15 78/2 58/7 60/22 53/54 51/50

63/100 58/45 66/17 57/4 87/2 87 87/2 77/2 52/6 55/15 47/55 49/100

60/100 60/51 64/21 59/3 85/1 85 85/2 54/6 56/21 54/61 49/100

60/90 58/51 61/22 55/5 84/15 84 84/15 57/5 54/18 53/50 47/100

Sta.	+	ℸ	−	Elev.
		915.55		
16				07.1
+50				07.3
17				07.5
+30				07.6
+34.55			8.1	07.5
B.M.			6.43	909.12
18				07.3
19				07.5
20				07.3
21				07.3
T.P.	5.16	915.58	5.12	910.43
22				08.5
23				08.5

Lt. ℄ Rt.

54/85 54/60 58/18 55/4 85/1 — 85/— 85/20 57/5 54/26 55/58 50/100

56/100 56/82 54/46 60/16 55/4 — 83/— 83/3 65/4 59/14 61/58 50/100

63/100 58/58 59/26 56/4 81/2 — 81/— 81/1 66/3 60/7 66/21 57/45 51/100

80/— 62/5 64/29 64/63 53/100

℄ Road.

Top S. End Conc. XD. mid S.W. sta. 17+34.55

83/— 5.3

81/—

83/— 5.1

83/—

71/— 5.2

71/—

Sta	+	HI	−	Elev.
		915.58		
24				08.4
25				08.5
26				08.2
27				08.5
T.P	4.93	915.92	4.59	910.99
28				08.3
29				08.4
30				08.7
31				08.9
32				09.2
33				08.1
T.P	5.64	916.74	4.82	911.10
34				08.1

Lt.	℄	Rt.
		R Road
	7.2	5.2
	7.1	
	7.4	4.8
	7.1	
	7.6	4.9
	7.5	
	7.2	9 10.5 5.0
	7.0	
	6.7	5.0
	7.8	
	11 8.6	5.4

Sta.	+	H	−	Elev	
		916.74			
				08.1	
35					
				0	
36				08.6	
37				08.5	
38				08.7	
B.M.			3.13	913.61	(912.75)

Lf	℄	Rt.
	8.6	
	8.1	5.3
	8.2	
	8.0	4.7

Top Elec. Conduit N.W. Cor. Ho. st. S.E. Cor. Arcade & Mississippi st.

Profile Levels

Proposed Ditch Relocation

Mississippi Str.

A Line = Location on Hiawatha & Orchard Stv

B Line = Lots 6 & 7 Block 2
" 6 & 7 Block 3

Sta	+	=	−	Elev
B.M	12.15	914.79		902.64
	5.77	917.07	3.49	911.30
10+31				
+42				
11				
+50				
12				
+50				
+94	Δ Pt.			
13				
+03				
+50				
14				

Top Drill hole E Miss + Edgerton

12.9

12.7

12.6

12.1

11.8

11.3

11.1

8.8

6.7

7.5

7.2

Sta	+	↗	-	Elev
		917.07		
14+52				
15				
+50				
16				
+50				
17				
+50				
18				
+50				
15				
+32				
+44		Rd Ditch		
		4.0 L		913.01

E

6.4

4.9

3.4

3.4

5.0

5.3

5.5

6.1

6.7

6.7

7.7

9.N

Spk in P.P on N.E Cor Lot 12

B Line

10' East of West Prop Line of
Lots 6 & 7 Block 2 &
6 & 7 " 3

Sta	+	X	−	Elev
T.P	4.05	917 O.L.		913.01
10+42				04.4
+52				08.9
11				08.9
+10	P.I			09.0
+50				09.5
12				09.6
+50				09.8
13				09.9
+50				10.1
14				09.8
+29	Pitch along Farm Rd.			09.5
+33				079

12.7

8.2

8.2

8.1

7.6

7.5

7.3

7.2

7.0

7.3

7.6

9.2

Sta	+	℄ 717.06	−	Elev
14+37				09.7
+50				09.7
15				09.6
+50				09.6
16				09.6
+50				09.2
17				09.2
+25		Prop Line		08.8
+36				08.4
+38				07.9
+45				09.8

158 = 9+15.40 ℄ Mississippi 10.30

3.48 714.77 5.77 911.29

2

7.4

7.4

7.5

7.5

7.5

7.9

7.9

8.3

8.7

9.2

7.3

6.8

Sta	+	HI	−	Elev
			12.13	902.64