Book # 91 - Dr. # 8

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Drainage Survey

COUNTY ROAD "F"

From _____ To _____

Road Acc't. No. 17

Date Filed 1-6-36 File 8

Drainage Survey

County Road "F" @ New Brighton.

Index

W. N. Carlson
Nov. 1, 1935

5to

4to

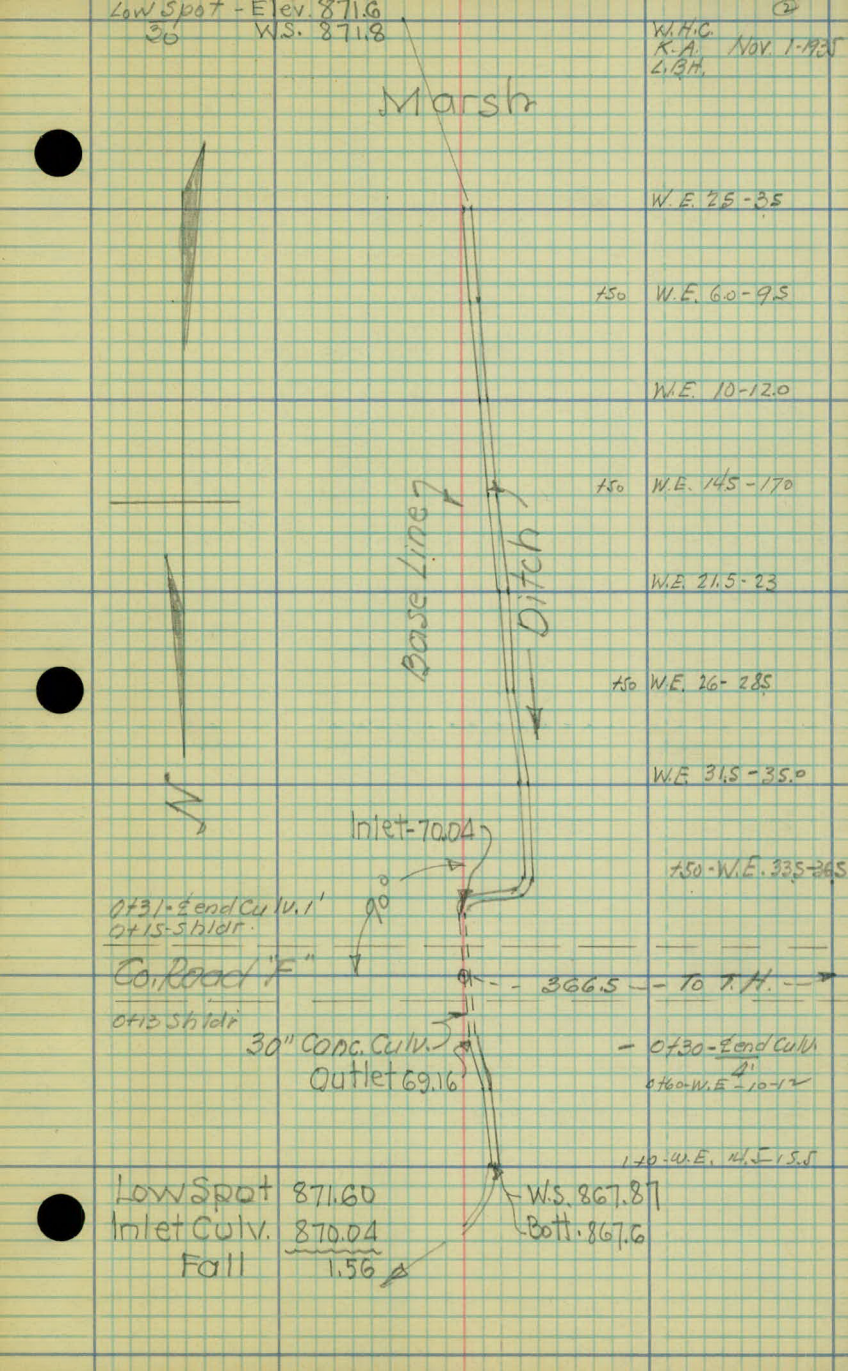
3to

2to

1to

0to

-1to


Low Spot - Elev. 871.6
30
W.S. 871.8
W.H.C.
K.A. Nov. 1-1935
L.B.H.
Marsh
W.E. 2.5 - 3.5
150
W.E. 6.0 - 9.5
W.E. 10 - 12.0
150
W.E. 14.5 - 17.0
Base Line
Ditch
W.E. 21.5 - 23
150
W.E. 26 - 28.5
W.E. 31.5 - 35.0
N
Inlet - 70.04
150 - W.E. 33.5 - 36.5
0+31 - End Culv. 1'
0+15 - Shldr.
90°
Co. Road "F"
366.5
To T. H.
0+13 Shldr
30" Conc. Culv.
Outlet 69.16
0+30 - End Culv.
0+60 - W.E. - 10-12'
1+40 - W.E. 14.5 - 15.5
Low Spot 871.60
Inlet Culv. 870.04
Fall 1.56
W.S. 867.87
Bott. 867.6

Level 3

B.M.	1.56	886.67 ✓		885.11 ✓
T.P. 3+66.5 @ F	0.65	880.86 ✓	6.46	880.21 ✓
6+0				
5+0				872.16
4+0				92.5
3+50				
3+0				
2+50				
2+0				
1+50				
1+0				
0+50				
0+33	~~Sta Cntr. Lt.~~			
0+31-	Fl. Line Curb. Lt.		10.84	870.02
0+15	Shldr. F			
0+0 = 3+66.5	℄ Co. Rd. F			

East = Lt ℄ Rt. = West

Top Conc. Walk. 30'Rt. Sta. 0+83 ℄ Rd F"

8716 8718
9.3 W.S.
30 9.10
Both = 30

8.7

73.1	73.5	71.5	871.1	871.5	72.0	72.9
28	84	9.4 9.8	9.39		8.9	8.0
15		25 3	3.5		5	30
76.1	73.0	71.4	871.3	71.43	74.9	74.9
5.5	5.9	9.45	9.6	9.45	6.0	6.0
15		6.0	8	9.5	12	30
75.7	74.4	74.8	71.2	8710	71.24	76.9	76.3
5.2	4.5	6.1	9.62	9.9	9.62	4.6	4.6
8		7	10	11	12.0	17	30
77.4	77.4	76.5	71.0	870.8	70.98	76.3	76.9
3.5	3.5	4.4	9.90	10.1	9.70	4.3	4.0
10		10	14.5	15.5	17.0	20	40
	76.3	76.1	70.7	870.3	70.74	75.4	75.6
	4.6	4.8	10.16	10.6	10.14	5.5	5.3
		17	21.5	27.5	23.0	27	40
	76.1	76.4	70.6	870.0	70.56	76.3	75.4
	4.8	4.5	10.32	10.9	10.32	4.6	5.5
		22	26	27.5	28.5	33	40
	75.6	75.8	70.5	870.3	70.54	75.4	74.9
	5.3	5.1	10.36	10.6	10.36	5.5	6.0
		27	31.5	33	35.0	38	45
	74.1	74.1	74.5	70.5	870.48	73.7	74.1
	6.8	6.8	6.4	10.7	10.40	7.0	6.8
	45		30	33.5	34.5	40	45
73.7	73.4	70.4	70.0	70.4	70.7	73.7	73.7
7.2	7.5	10.44	10.9	10.44	13.7	7.1	7.2
15	5	1		31	31	33	40
	79.9		79.7		80.3		
	1.0		1.2		0.6		
	15				28		
	80.7		80.7		80.6		
	0.7		0.65		0.3		
	15				30		

Sta.	+	℄	—	Elev.
	1.38	881.61 ✓		880.23 ✓
0+0				
0+13	shldr			
0+30	℄ Culv. 4'		12.45	869.16
0+30				
0+60				
1+0				
1+30				

West = Lt. ℄ Rt. - East

80.0 79.7 79.6
1.6 1.9 2.0
25 15

30" Conc. Culv.

73.6 70.8 68.6 68.1 68.4 70.7 71.4 72.√
x W.S. W.S.
80 108 17.98 13.5 12.98 10.9 10.2 9.4
20 6 5 4 2 2 15

71.5 71.0 68.√
x W.P. 68.2
80 68.0 W.P. 69.√ 70.5 72.0
10.1 10.6 13.6 13.6 13.40 13.4 11.1 9.6
25 19 12 11 10 11 15

68.4 68.3 68.9 68.7 68.0 69.6 70.5 71.0
20 E. 20 E.
13.7 13.3 13.62 13.9 13.62 13.0 11.1 10.6
25 16 15.5 15 14.5 10 15

67.9
W.S.
13.74
67.4
14.0
Bott

Slope Stakes

Co. Rd. "F"

at

New Brighton

Sta.	+	H	−	Grade	
B.M.	3.71	887.41			883.70
0+00				83.7	
+50				83.1	
1				82.4	
+50				81.8	
2				81.1	
+50				80.5	
3				80.0	
B.M.	1.32	885.02			883.70
+50				78.7	
4				79.4	
+50				79.2	
5				79.0	

	Lt.	℄	Rt.
℄ Pavement			
4.3			
5.0	57.2 / 17.1 / -12.1	52 / +0.2	
5.6	53.2 / 15.7 / -10.1	58 / -0.2	
6.3	45.2 / 14.4 / -8.1	63 / 6.0	
6.9	42.0 / 11.9 / -4.5	6.9	
7.4	39.4 / 10.6 / -3.2	7.3	
℄ Pavement			
5.3	51.0 / 14.0 / -9.0	55 / -0.2	
5.6	51.0 / 14.6 / -9.0		
5.8	49.4 / 14.0 / -8.2		
6.0	43.6 / 11.3 / -5.3		