

Bk 44 Dr 16.

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

_____ Plan _____ Survey

_____ Dale Str. _____

From Co Rd "B" To S.T.H #36

Road Acc't. No. 47

Date Filed _____

File _____

PLAN SURVEY

DALE STREET.

COUNTY ROAD "B" to S. T. H. # 36

Completed - 8/10/40

INDEX

Alignment - 1-2.

Topography - 3-5.

Cross Sections 6-9.

Party

R. Pease
A. Moeschter
L. Goldberg
C. Fewer.

Plan 5/15/40

2630.70 E Co. Rd. "B²"

1315.44 E Minnesota St.

11+47.90 E S.T.H. #36

N 7° 45' W.

0+00

E $\frac{1}{4}$ Cor. Sec. 11
Rose Twp.

ctr. M.H. Cover.

ctr. M.H. Cover.

58.03

46.71

49.6

46.68

ctr. M.H. Cover.

ctr. M.H. Cover.

P.P.

S.E. Cor.
Fill. Sta.

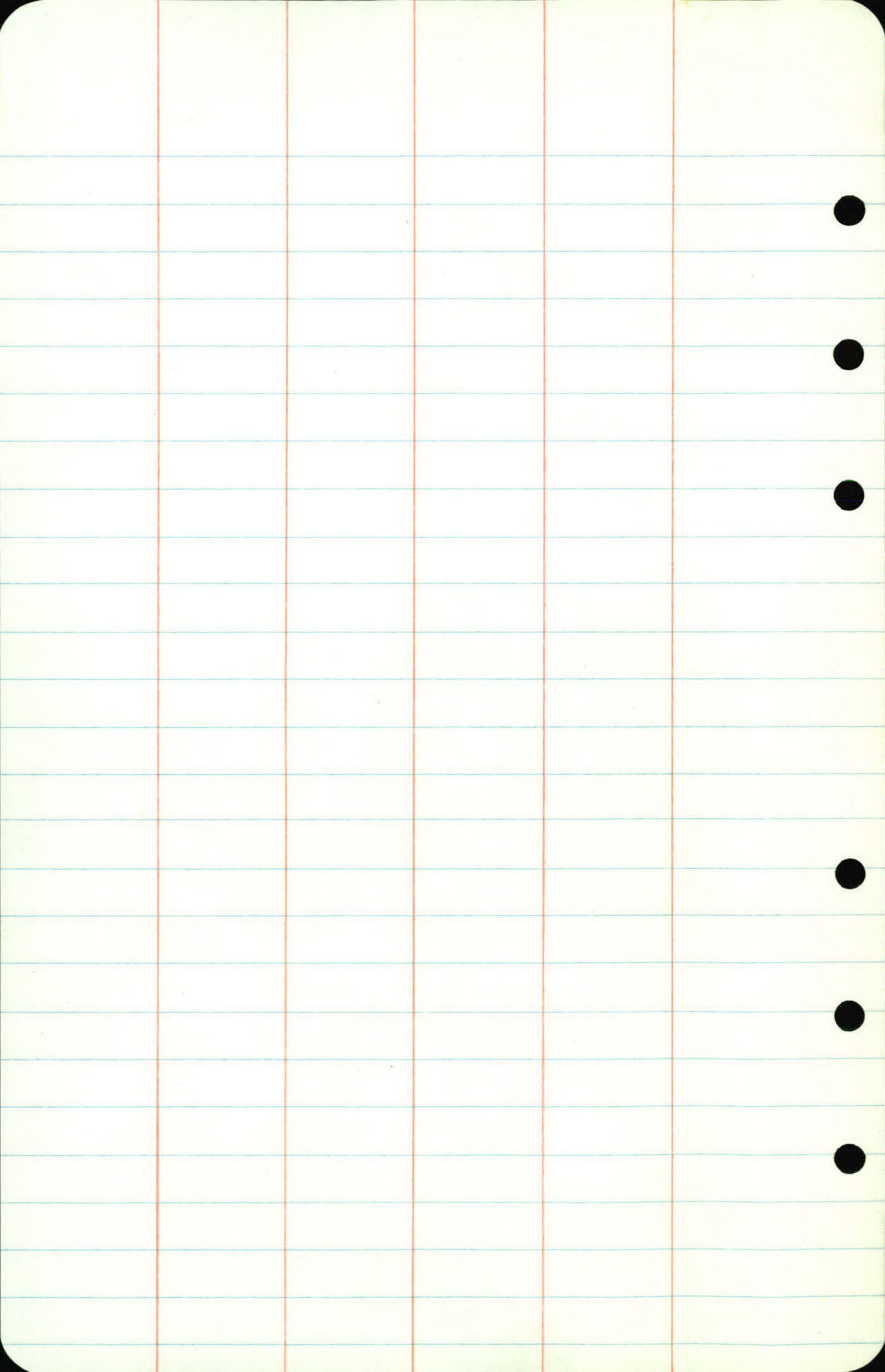
50.97

87.30

S.E. Cor. Sec. 11
Rose Twp.

41.50

P.P.



TOPOGRAPHY

DALE STREET

Co. Rd. "B" to S.T.H. #36

6

11

12

5

11

13

4

9

12

3

33.

10
199.24" x 60" C.M.

12

27"

2

10

12

1

10

13

0

+79 Field Ent.
187' x 18' C.M. 20
+62 P.P. 27

Fe. 29 4.

Fe. 29

+32 P.P. 27

Uncultivated

Fe. 29

+04 P.P. 28

2' Bottom Ditch
(End Cult.)

Cultivated

Fe. 29

+72 P.P. 27

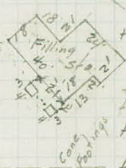
Hay Meadow

Fe. 31

+77 Beg. Tie Cult.
+57 Beg. Fe. 33
+46 Beg. Cult. 40

+41 End Rod 9
+43 P.P. 27
+37 End G.L. 13
+34 G.P. 18

Dummy
Posts



+81 Cor. Gros. Sta. 40
+47 Cor. Gros. Sta. 72
+41 End. Rod. 13
+30 Sign Post 32
+14 Beg. Rod. 36

+14 Beg. Rod. 41

COUNTY ROAD "B"

-16 End Rod 46

-16 End Rod 39

-44 Beg. Rod 12

-44 Beg. Rod. 11

13

12

11

10

9

8

7

6

12

13

12

12

12'

12'

12'

11'

11'

12'

+00 C.B. 27
 +00 End Rod 13
 +75 End Curb 32
 +73 12" C.M. 38
 +70 Beg. Curb 43
 +62 Beg. Rod 55

+34 End Rod 59
 +23 End Curb 41
 +08 C.B. 38
 +03 Beg. Curb 25
 +94 End 24" Conc. 29
 +87 3" Stone Gutter 27
 +87 Beg. Rod 12
 +62 12" Check 24
 +58 P.P. 27
 +31 End Yds.
 +27 7" 2" Check 21
 +26 Bush 38
 +17 Spruce 41
 +00 Bush 35
 +95 Spruce 40

+79 Ent.
 18" x 20" C.M. 22
 154 P.P. 27

+09 15" Maple 33
 +05 Ent.
 18" x 20" C.M. 22
 +96 24" Maple 35
 +74 18" Maple 35
 +48 24" Maple 35
 +38 Ent.
 15" x 20" C.M. 22
 +28 20" Maple 34
 +22 P.P. 28
 +06 2" 24" Maple 33-49
 +94 X Hedge 33

+90 P.P. 27

12" Conc

S.T.H

Uncultivated

Yards

Yards

Uncultivated

24" Conc

#36

Stone Gutter
 Conc. Board

+00 End Rod 18
 +78 End Curb 31
 +75 C.B. 37
 +70 Beg. Curb 42
 +62 Beg. Rod 56
 +35 End Rod 68
 +32 End Curb 54
 +23 C.B. 36
 +21 Beg. Curb 31

+96 24" Conc 37
 +87 Beg. Rod 13

+49 Beg. Mass. Gutter 26

+56 End Fe 31

Fe 31

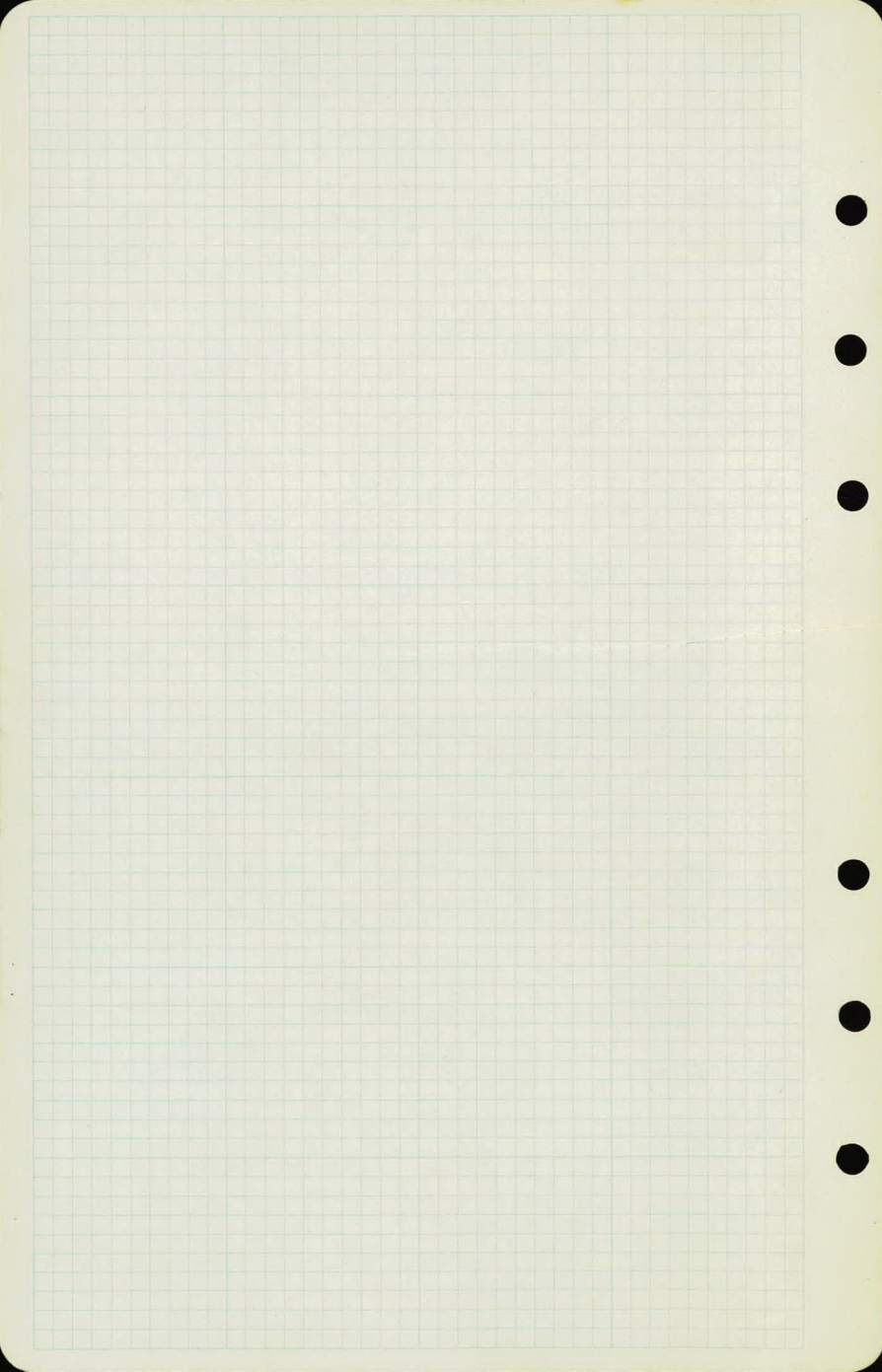
+59 X Fe 31
 +53 End Curb 44
 +50 Field Ent.
 2" 12" x 8.8" C.M. 18-19
 12" x 10" C.M. 40

Fe 27

Fe 29

Uncultivated

Cultivated



CROSS SECTIONS

DALE ST.

COUNTY ROAD "B" 1/2 S.T.H. #36

Sta.	+	π	-	Elev.
B.M.	4.00	935.81.		931.81.
0+00	± Co. Rd.	"B"	4.0	31.8 -
+19			4.2	31.6 -
+32			4.3	31.5 -
+50			4.4	31.4 -
1			4.3	31.5 -
+50			4.3	31.5 -
2			4.2	31.6 -
+50			4.0	31.8 -
+99	Sec thru 24" x 60' C.M.	3.7		32.1 -
3			3.7	32.1 -
+50			3.1	32.7 -
4			2.2	33.6 -
T.P.	10.61	944.16.	2.26	933.55.

Lt.

E

Rt.

Top. Mon. Date and Co. Rd. "B"

$\frac{6.1}{50}$

40

$\frac{3.0}{50}$

$\frac{6.7}{50} \frac{5.8}{30} \frac{4.3}{8} \frac{4.2}{42} \frac{3.6}{15} \frac{3.6}{50}$

$\frac{8.5}{50} \frac{6.8}{45} \frac{5.8}{26} \frac{5.1}{14} \frac{4.4}{43} \frac{4.2}{14} \frac{3.6}{26} \frac{3.6}{50}$

$\frac{10.4}{50} \frac{8.6}{30} \frac{5.9}{17} \frac{4.8}{11} \frac{4.4}{4.4} \frac{4.5}{17} \frac{3.7}{50}$

$\frac{10.7}{50} \frac{10.1}{35} \frac{8.7}{27} \frac{5.9}{20} \frac{4.5}{12} \frac{4.3}{4.3} \frac{3.5}{22} \frac{3.5}{50}$

$\frac{10.7}{50} \frac{8.6}{28} \frac{5.8}{20} \frac{4.7}{11} \frac{4.7}{4.3} \frac{5.3}{19} \frac{4.0}{20-23} \frac{3.8}{24} \frac{3.4}{40} \frac{3.4}{50}$

$\frac{10.5}{50} \frac{9.5}{34} \frac{8.3}{26} \frac{5.2}{17} \frac{4.4}{11} \frac{4.2}{4.2} \frac{5.3}{14} \frac{5.9}{21} \frac{5.3}{23-26} \frac{4.4}{28} \frac{3.6}{31} \frac{3.6}{50}$

$\frac{10.7}{50} \frac{10.2}{43} \frac{9.2}{30} \frac{5.7}{17} \frac{4.7}{11} \frac{4.1}{4.0} \frac{4.5}{13} \frac{5.8}{20} \frac{5.2}{23-28} \frac{4.7}{32} \frac{4.7}{50}$

Profile Ditch - FL 2482

AL 2758

$\frac{12.2}{200} \frac{11.8}{150} \frac{10.8}{100} \frac{10.0}{50} \frac{10.99}{33} \frac{9.8}{34} \frac{8.5}{29} \frac{5.1}{17} \frac{4.2}{12} \frac{3.9}{3.7} \frac{4.4}{12} \frac{8.23}{27} \frac{8.2}{27} \frac{8.7}{30} \frac{7.0}{32} \frac{5.7}{37} \frac{5.1}{50}$

$\frac{9.7}{50} \frac{9.5}{33} \frac{6.8}{24} \frac{4.9}{17} \frac{4.2}{10} \frac{3.7}{3.7} \frac{4.6}{13} \frac{7.8}{19} \frac{5.8}{23-26} \frac{5.1}{27} \frac{6.7}{29-30} \frac{4.9}{31-34} \frac{4.9}{50}$

$\frac{10.9}{50} \frac{11.2}{45} \frac{7.7}{38} \frac{9.0}{36-33} \frac{8.5}{27} \frac{4.5}{17} \frac{3.7}{12} \frac{3.3}{9} \frac{3.4}{14} \frac{4.3}{19} \frac{5.3}{21-26} \frac{4.1}{27-28} \frac{5.3}{31} \frac{4.5}{50}$

$\frac{9.8}{50} \frac{10.2}{45} \frac{9.3}{41} \frac{6.6}{36} \frac{8.4}{33-30} \frac{6.0}{23} \frac{3.0}{14} \frac{2.5}{9} \frac{2.6}{2.2} \frac{3.4}{13} \frac{3.3}{19} \frac{4.2}{27} \frac{4.0}{33} \frac{4.0}{50}$

Sta.	+	π	-	Elev.
		944.16.		
4/150			9.6	34.6
5			8.3	35.9
+50			7.0	37.2
6			5.5	38.7
+50			3.8	40.4
7			2.1	42.1
T.P.	9.88	952.18.	1.86	942.30
+50			8.1	44.1
+94			6.1	46.1
8 + 03			5.7	46.5
+50			3.3	48.9
T.P.	8.67	960.00.	0.85	951.33.
+89			9.0	51.0
9 + 17			7.7	52.3
B.M.			4.76	955.24.

L. & R.

17.0 17.3 12.5 16.1 13.0 10.4 9.9 9.9 10.5 11.0 10.8 12.1 11.5
 50 46 35.34 30-27-25 14 9 9.6 12 24 27 30 34 50

14.6 15.1 13.5 11.6 13.0 14.7 11.6 9.4 9.0 9.7 9.6 8.8 9.4 11.1 10.1
 50 44 42-38 33 28 26-24 22/3 8.3 16 19 25 27 29 32 50

13.1 11.2 10.0 12.7 9.3 7.3 7.4 26 8.2 7.7 7.9 9.7 8.5
 50 33 30-28 24-22 19 11 7.0 12 15 18-25 27 30 32 50

10.5 10.3 8.5 6.8 9.0 6.6 5.7 6.1 7.1 6.2 7.5 8.2 8.3 7.6
 50 38 30 27-25 21-19 18 11 5.5 17 18 21 23 32 34 38 50

8.9 8.0 5.1 6.3 7.3 4.5 4.1 4.2 4.0 5.2 4.1 4.0 4.9 6.7 6.0
 50 36 26-25 22 21-18 17 9 3.8 11 16 17-20 22 24 28 36 50

6.8 6.0 3.3 4.6 5.9 2.6 2.3 2.2 3.3 2.2 2.0 5.1 4.1
 50 36 29-28 22 21-19 18 12 2.1 15 18-20 21 29 37 50

42.59 F.L. Ent. Culv. + 50 42.92
 Spike PP 6.90 6.1 50 H. 9.59 H. 9.52 H. F.L. 9.26
 12.5 12.3 11.4 9.5 9.4 7.9 8.8 8.4 8.6 8.4 9.3 8.4 8.8 11.4 11.0 10.0
 50 40 34 31 26 24 21 17 11 8.1 10 17 17-19 20 31 40 46 50

10.0 9.5 7.5 7.6 9.2 6.8 6.4 6.4 6.7 7.3 6.1 6.6 5.6
 50 41 33 26 24-22 19 11 6.1 11 15 17-20 23 35 50

8.2 6.9 9.2 6.5 6.0 5.9 6.2 7.0 6.0 6.2 5.3
 50 27 24-22 19 11 5.7 8 15 17-20 23 34 50
 15" Ent. Culv. L.F. + 35

S.F.L. 7.18-45.00 6 H.F.L. 6.25-45.93

5.5 4.5 6.2 3.9 3.5 3.4 3.7 5.7 3.0 1.7 10.0
 50 26 24 21 17 11 3.3 10 15 19-22 23 37 50

10.5 10.3 11.0 13.1 9.7 9.4 9.5 9.7 12.7 8.5 6.6 4.6
 50 28 25 24-20 17 11 9.0 11 15 18-21 24 22 50
 18" Ent. Culv. 9+05

5.06 11.20 48.8 N.F.L. 10.08-49.92

8.8 8.5 9.9 9.0 8.0 7.9 8.0 8.2 10.7 3.7 1.7 0.5
 50 26 23-21 20 16 11 7.7 11 15 17-23 30 37 50

R.R. Spike P.P. 27-LT 9+54

Sta.	+	π	-	Elev.
		760.00.		
9+50			6.0	54.0
10			3.2	56.8
T.P.	11.51	969.51.	2.00	958.00.
9+50				54.0
10				56.8
+30			10.8	58.7
+50			10.0	59.5
+87			7.8	61.7
11			7.0	62.5
+20			6.0	63.5
+31			5.6	63.9
+48			5.2	64.3
T.P.	0.95	957.94.	12.52	956.99.
	0.78	946.63	12.29	945.65.
	2.03	936.77.	11.89	934.74.
B.M.			4.92	931.85. (931.81)

52 60 88 6.4 6.2 62 6.3 9.0 4.6
 50 29 25-21 15 11 60 10 15 17-24 26
 18" Ent. C.W.V. 179

S. F.L. 6.97 - 53.03 H.F.L. 3.87 - 54.13

0.0 0.9 3.8 5.3 3.5 3.4 3.7 3.5 7.7 1.7
 50 32 26 22-20 15 11 3.2 11 17 22-25 28

(155) 8.6 8.1
 38 50

(12.7) 5.6 4.9
 39 50

6.8 8.5 12.8 11.4 11.1 11.3 11.4 13.8 11.4 7.7 6.9
 50 31 23-18 15 11 10.8 12 18 22-26 28 38 50

spill
 5.9 6.5 7.6 12.0 12.5 10.5 10.3 10.5 11.1 11.8 13.32 11.5 11.3 8.0 7.4
 50 42 36 27 19 16 11 10.0 12 20 23 24-27 27 30 39 50

spill
 5.4 5.8 8.1 11.1 11.36 8.3 8.4 8.5 7.4 8.5 9.6 11.56 9.5 8.0 8.0
 50 44 40 33 28-28 19 14 7.8 7.4 18 23 32 33-36 36 43 50

F.L. 24" Conc. 10.62 - 58.89

5.1 6.0 7.5 7.3 7.8 6.5 8.2 8.2 8.0
 50 25 22 12 7.0 17 21 32 38 50

59.11

F.L. 24" Conc. 10.40 (M.H.)

4.7 5.3 6.4 6.0 6.2 6.6 6.2 5.2 5.2
 50 39 38 13 60 18 33 34 72 50

58.67
 F.L. 24" Conc. 10.84

58.94

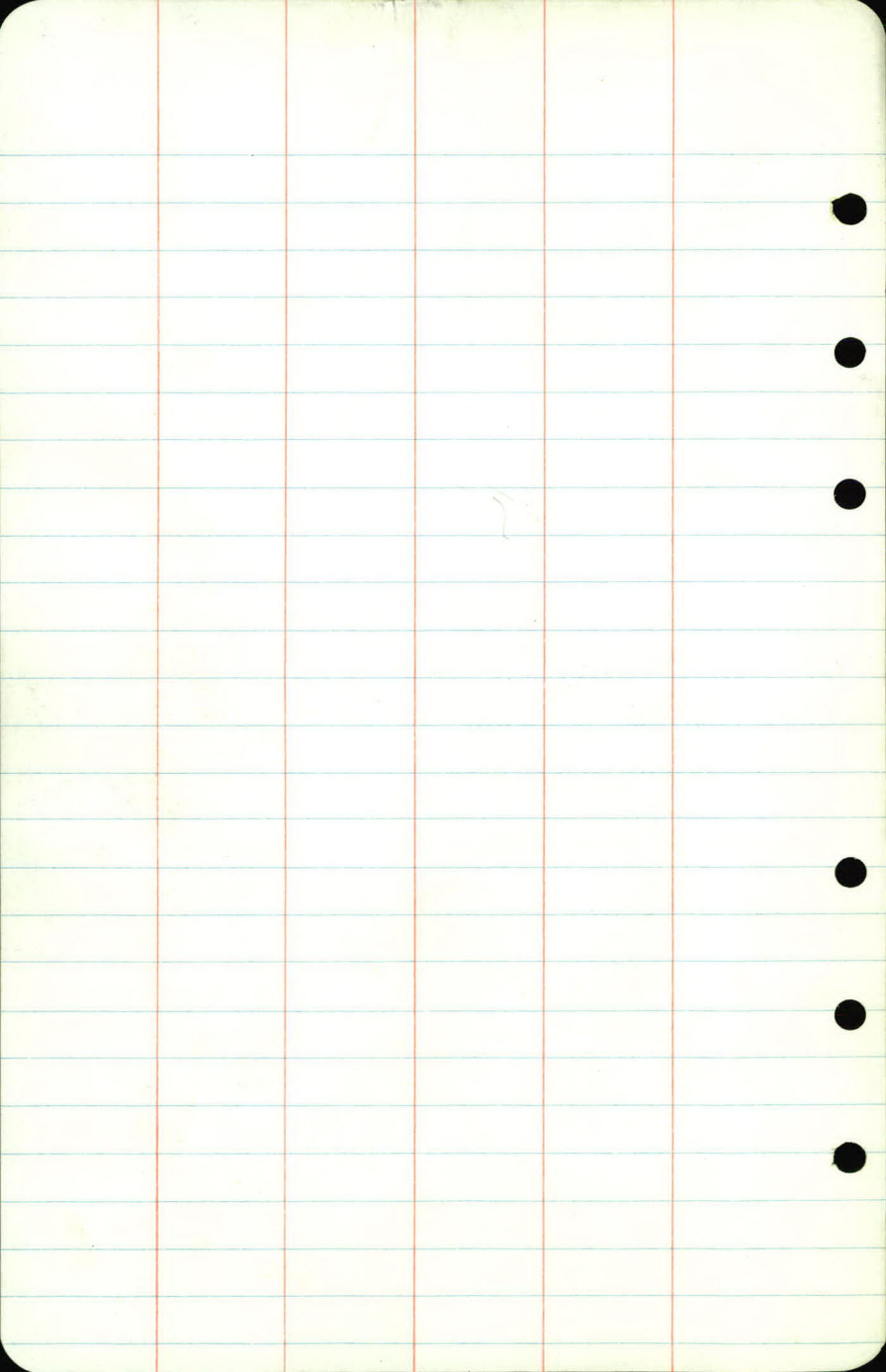
F.L. 24" Conc. 10.57 (M.H.)

5.7 5.8 5.9 6.0
 50 25 25 50

5.2
 50

5.2

5.3
 50



Date 5/

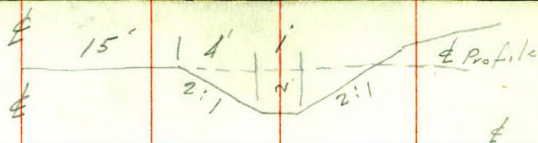
Co. Rd. "B" to S.T.H. #36

BLUE TOPS

Staked 5-21-41

3 Pages

R. Pease
A. Moeschter
L. Goldberg
C. Fawcett



B.M.	5.04	936.85		931.81	
3				27.6	4.8
+50				29.6	4.1
4				31.6	3.3
+50					2.3
5					1.0
T.D	10.35	946.19	1.01	935.84	
+50					7.0
6					7.5
+50					5.9
7					4.1
+50					1.7
T.P	11.06	957.09	0.16	946.03	
8					10.7
+50					8.2

Grade
Rod

Top Mon Dale + B

9.3

9.3
19.0

7.3

7.3
19.0

5.3

5.3
19.0

4.3

4.3
19.0

3.0

3.0
19.0

11.0

11.0
19.0

9.5

9.5
19.0

7.9

7.9
19.0

6.1

6.1
19.0

3.7

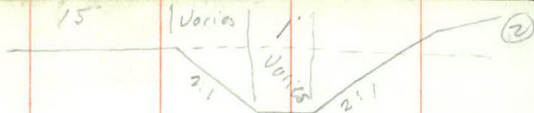
3.7
19.0

12.7

12.7
19.0

10.2

10.2
19.0



£

957.09

8 + 89

6.2

9 + 17

4.8

+50

52.0

3.1

10

54.1

0.4

T.P. 8.35 965.08 0.36 956.73

+30

55.5

6.4

+50

56.2

5.5

B.M. 6.20

6.20

958.88

+87

T.P. 0.64 953.00 12.72 952.36

T.P. 0.09 940.37 12.72 940.28

B.M.

8.48

931.89

931.81

Grade
Rod

8.2

$\frac{8.2}{19}$

5.1

$\frac{6.8}{19}$

$\frac{5.1}{19}$

3.0

$\frac{3.0}{20}$

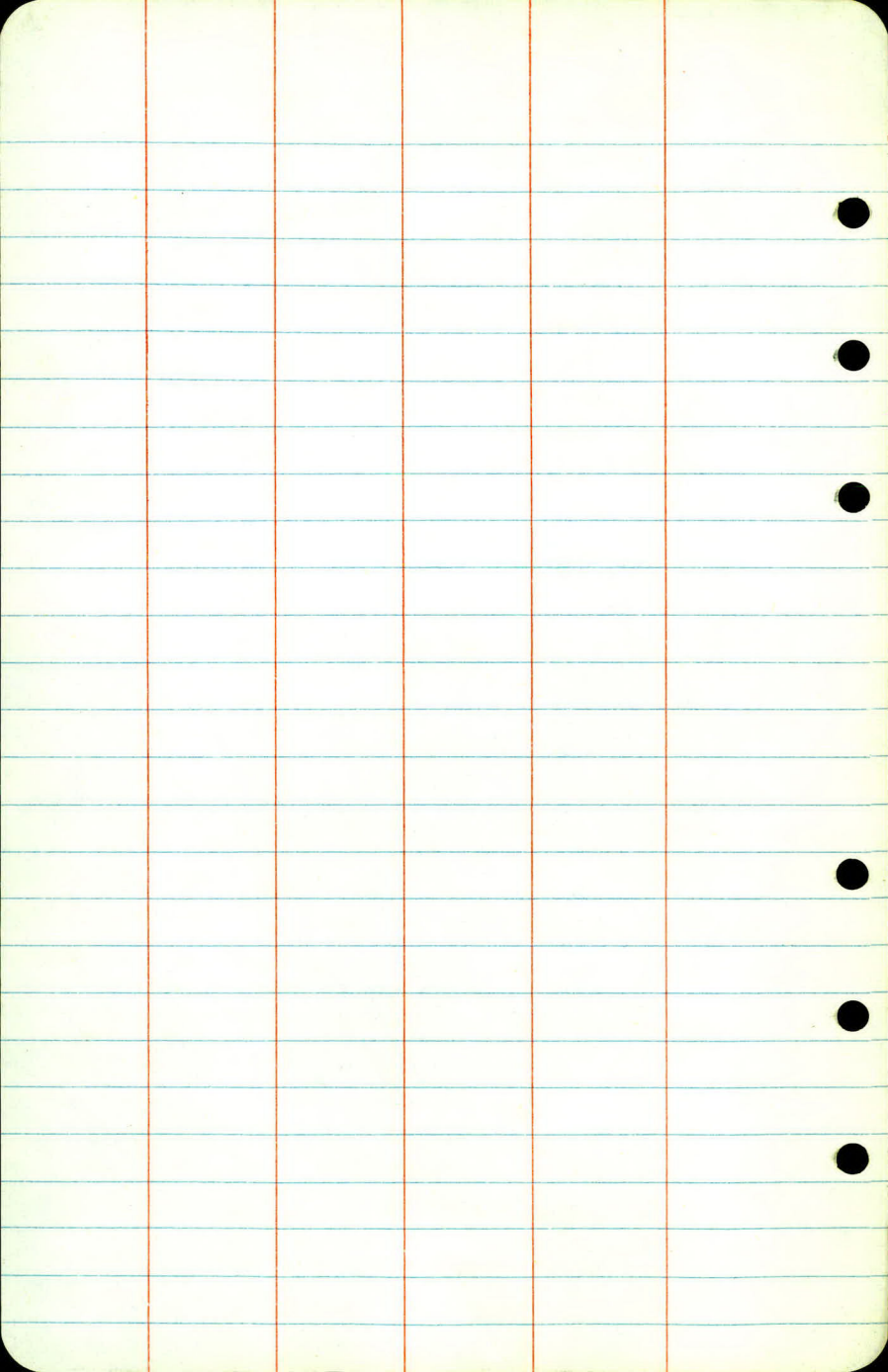
9.6

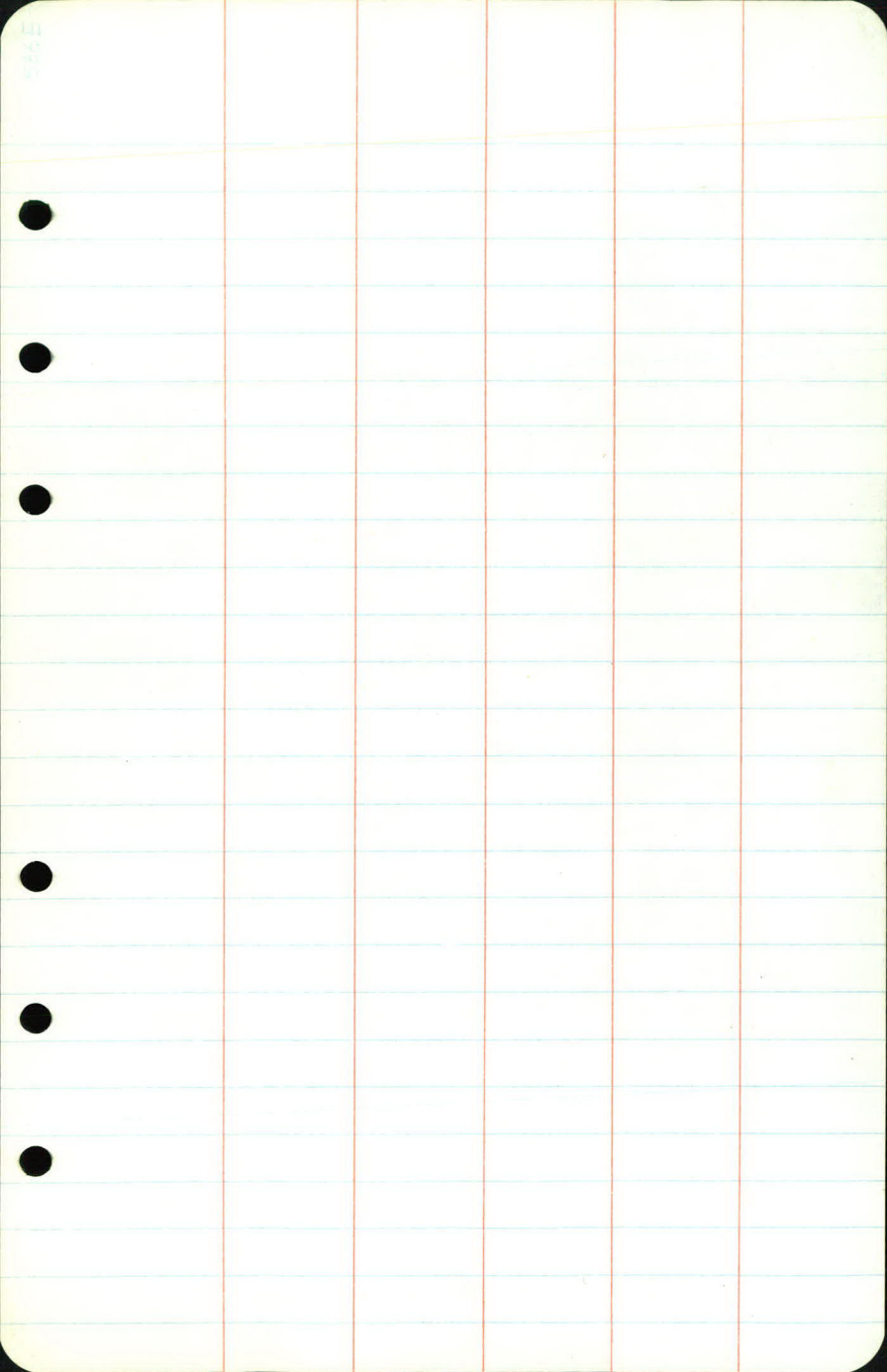
$\frac{9.6}{21.4}$

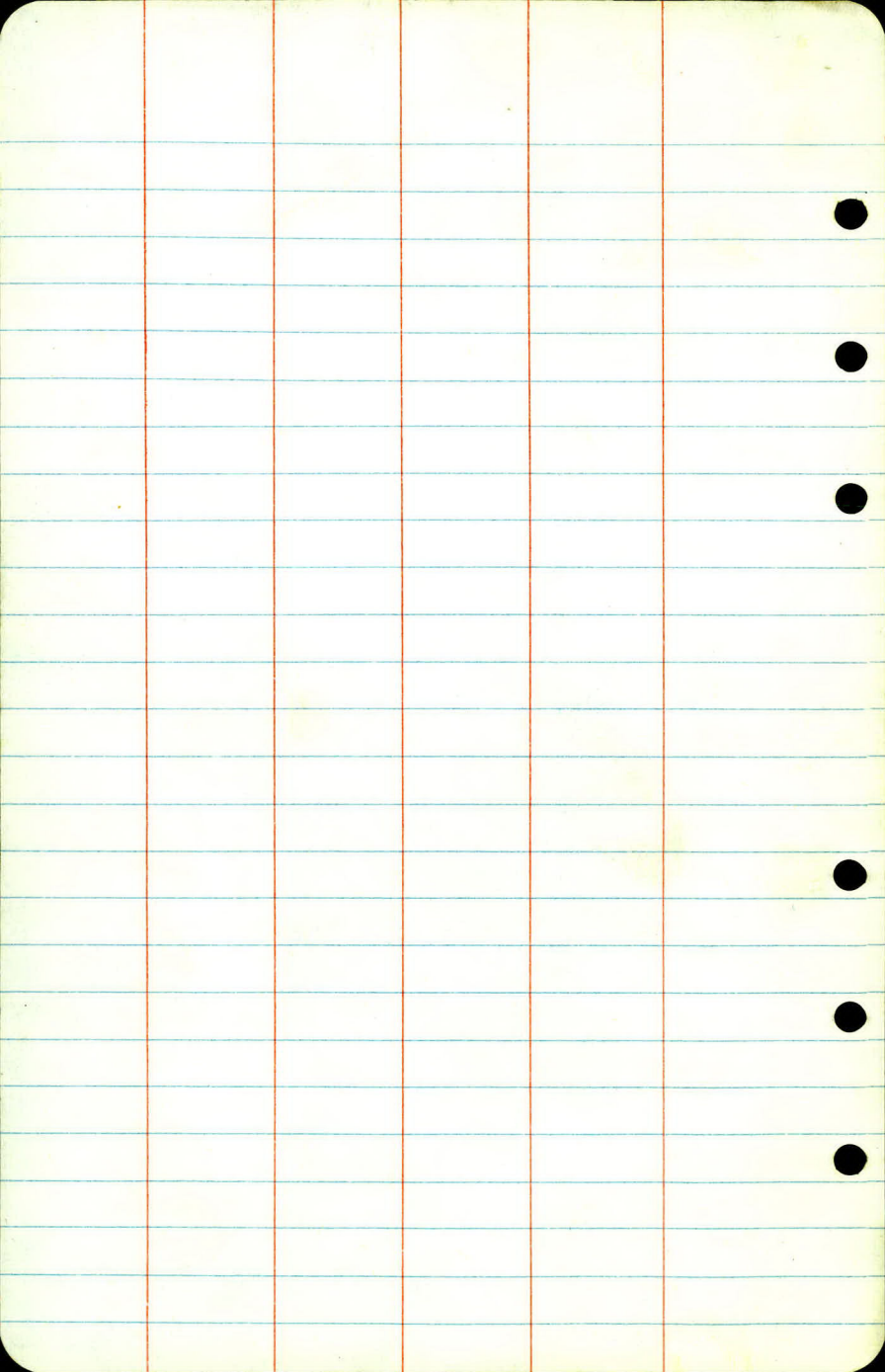
8.9

F.L. 24" Conc. S.W. Cor. Pole - 36

Top Mon "B" and Pole







1
Dale St.

N.E. Cor Dale St & Minn. St.

Slope Staking

1/7/55

Sta + π - Elev DGR

0+00 E Minnesota St

+33

15.8

11.4

4.4

+50

15.0

9.8

5.2

1

12.9

3.4

9.5

2.3

+50

10.9

2.5

8.4

2.5

2

9.4

2.2

FK
AM.
L.C.
MMc

Dec. 30, 1954
Cool Overcast 13° 2

5 to 4.5
on 22 2:1 3:1

15.64

14.3 (11.3)
C45
25 (11.3)
C45
29.5

13.5 (9.9)
C51
36.2 (9.8)
C52
41.6

11.4 (5.1)
C78
41.6 (5.4)
C75
48.5

9.4 (2.6)
C83
42.6 (2.5)
C84
51.2

7.9 (2.2)
C72
40.4 (2.3)
71
47.3

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

2+50					
------	--	--	--	--	--

2+50					80
------	--	--	--	--	----

2+50					28
------	--	--	--	--	----

2+50					52
------	--	--	--	--	----

3					
---	--	--	--	--	--

3					70
---	--	--	--	--	----

3					28
---	--	--	--	--	----

3					22
---	--	--	--	--	----

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

+50					61
-----	--	--	--	--	----

+50					25
-----	--	--	--	--	----

4					
---	--	--	--	--	--

4					53
---	--	--	--	--	----

4					20
---	--	--	--	--	----

4					1
---	--	--	--	--	---

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

£

stopes ³

2.1

3.1

6.5

(2.3
C57
374)

(2.8
C52
41.6)

5.5

(3.0
C40
34)

(3.0
C4.0
38.0)

4.6

(3.7
C24
30.8)

(3.6
C25
33.5)

3.8

(3.6
C17
29.1)

(3.6
C1.7
31.1)

3.4

