

Dr. 8 - Bk 116

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

LEVELS.....Survey

DITCH #8
From Co. Rd "I" To Co. Rd "J"

Road Acc't. No.

Date Filed.....

File.....

4-29-37

①

DITCH LEVELS

DITCH # 8

FROM CO. RD. "I" TO CO. RD. "J"

Book 116
Dr. 8

STA. + π - Rod ELEV.

"A" LINE

B.M. 3.56 897.08 893.82

8.64 88.44

3.15 93.93

2.56 94.52

9.43 87.65

10.30 86.78

0+57 84.8

1+00 84.8

3+00 84.4

T.P. 2.05 890.65 8.48 888.60

5+00 83.9

7+00 83.9

9+00 83.6

11+00 83.3

13+00 83.1

15+00 82.9

T.P. 5.27 889.65 6.27 884.38

17+00 82.8

4-29-57 π A.W.L. (2)
GODFREY
GOLDBERG

CONC. M.H. COVER 48+40 LT.

TOP ^{12"} IRON PIPE - IN N. DITCH

CREST WEIR - TURTLE LAKE

TOP ^{12"} PIPE - OUTLET INTO WEIR

INLET F.L. 15" C.M. UNDER CONDUIT

OUTLET " " " "

88.8 8.3 12.3

88.4 8.7 12.3

87.3 9.8 12.7

86.6 4.0 6.7

86.0 4.6 6.7

86.1 4.5 7.0

85.5 5.1 7.3

84.9 5.7 7.5

84.7 5.9 7.7

84.3 5.3 6.8

STA	+	H.I	-	Rod
		889.65		
19+00				83.0
21+00				82.9
23+00				82.9
23+78				82.9
24+23				82.6
25+00				82.6
T.P.	4.64	894.29	0.00	889.65
27+00				82.3
29+00				82.3
31+00				82.4
33+00				82.3
35+00				82.3
37+00				82.1
39+00				82.3
T.P.	2.27	889.79	6.77	887.52

85.1 4.5 6.6

84.7 4.9 6.7

85.4 4.2 6.7

85.2
Δ IN DITCH LT. 4.4 6.7

Δ RT. 85.1 4.5 7.0

84.8 4.8 7.0

LT. 26+00
TOP F.P.

26+75 = SEC. LINE

85.0 9.3 12.0

85.2 9.1 12.0

84.6 9.7 11.9

85.4 8.9 12.0

84.7 ✓ 9.6 12.0

84.2 10.1 12.2

83.6 10.7 12.0

F.P. 39+20

STA + H.I. — Rod

889.79

41+00 82.3

43+00 82.3

45+00 82.1

47+00 81.6

49+00 82.3

51+00 82.1

T.P. 5.89 891.80 3.88 885.91

53+00 82.6

55+00 82.7

57+00 82.2

59+00 82.5

61+00 81.6

+29 → 8.07 83.73

→ 8.63 83.17

61+60 $\frac{1}{2}$ CO. RD. "J"

83.5 6.3 7.5

83.1 6.7 7.5

83.6 / 6.2 7.7

84.5 5.3 8.2

85.0 4.8 7.5

85.4 4.4 7.7

87.6 7.2 9.2

85.3 / 6.5 9.4

85.2 6.6 9.6

85.5 6.3 9.3

86.0 5.8 10.2

TOP 24" C.M. SO. END - CO. RD. "J"

" " " NO. END - " " "

STA. + H.I. - ROD
 $\frac{1}{4}$ SEC. LINE - LINE "B"

58+60
~~0+00~~ 891.80 3.1 88.7

58+14
~~+46~~ 5.5 86.3

56+60
~~2+00~~ 6.4 85.4

55+35
~~3+25~~ 6.3 85.5

54+60
~~4+00~~ 4.5 87.3

52+60
~~6+00~~ 5.0 86.8

50+60
~~8+00~~ 5.2 86.6

48+60
~~10+00~~ 6.4 85.4

46+60
~~12+00~~ 6.1 85.7

T.P. 8.49 894.09 6.20 885.60
 45+60
~~13+00~~ 7.0 87.1

44+60
~~14+00~~ 6.5 87.6

43+60
~~15+00~~ 7.0 87.1

42+60
~~16+00~~ 7.5 86.6

(5)

E. CO. RD. "J" - MONT.

STA.	+	H.I.	-	ROD	
40+60 18+00		894.09		8.8	85.3
39+69 18+91				9.5	84.6
38+60 20+00				7.8	86.3
37+60 21+00				6.8	87.3
37+22 128				6.3	87.8
T.P. 36+60 22+00	8.37	899.97	2.49		891.60
				7.8	92.2
35+60 23+00				2.7	97.3
34+60 24+00				6.2	93.8
33+78 182				11.5	88.5
33+60 25+00				12.0	88.0
32+60 26+00				13.4	86.6
31+78 182				13.6	86.4
31+60 27+00				13.2	86.8

STA. + H.I. - Rod

899.97

30+60
~~28+00~~ 10.5 89.5

30+27
~~+33~~ 8.4 91.6

29+87
~~+73~~ 11.0 89.0

29+60
~~29+00~~ 11.4 88.6

T.P. 1.92 890.54 11.35 888.62

28+60
~~30+00~~ 3.9 86.6

27+60
~~31+00~~ 3.7 86.8

26+60
~~32+00~~ 4.5 86.0

26+40
~~+20~~ E.O.V. FENCE LINE

25+60
~~33+00~~ 5.3 85.2

24+72 "B"
~~33+88~~ = 24+72 "A" LINE 5.0 85.5

T.B.M. 0.88 889.66

TOP F.P. LT. 26+00 "A" LINE

STA. + H.I. — ROD ELEV.
CO. RD. "J" TO BALDWIN LAKE
DITCH # 8

61+00 = 4 CO. RD. "J"

B.M. 11.43 894.60 883.17 ✓

62+00 82.9

63+00 82.1

64+00 82.6

65+00 81.7

66+00 81.8

67+00 82.2

68+00 81.1

T.P. 6.44 892.04 9.00 885.60

69+00 81.6

69+43 Δ LT.

70+00 81.2

71+00 81.6

72+00 81.5

5-4-37 (8)
T A.W.L.
C. G.
GOLDBERG

36" X 60' C.M. June 12, 1974

No. ~~END 24" C.M. UNDER Co. R.D. "J"~~

$$\begin{array}{r} 86.5 \\ 11.7 \\ \hline 8.1 \end{array}$$

$$\begin{array}{r} 85.9 \\ 12.5 \\ \hline 8.7 \end{array}$$

$$\begin{array}{r} 86.7 \\ 12.0 \\ \hline 7.9 \end{array}$$

$$\begin{array}{r} 86.2 \\ 12.9 \\ \hline 8.4 \end{array}$$

$$\begin{array}{r} 86.6 \\ 12.8 \\ \hline 8.0 \end{array}$$

$$\begin{array}{r} 86.9 \\ 12.4 \\ \hline 7.7 \end{array}$$

$$\begin{array}{r} 85.5 \\ 13.5 \\ \hline 9.1 \end{array}$$

$$\begin{array}{r} 86.0 \\ 10.4 \\ \hline 6.0 \end{array}$$

$$\begin{array}{r} 87.3 \\ 10.8 \\ \hline 4.7 \end{array}$$

$$\begin{array}{r} 86.1 \\ 10.4 \\ \hline 5.9 \end{array}$$

$$\begin{array}{r} 86.1 \\ 10.5 \\ \hline 5.9 \end{array}$$

STA.	+	H. I.	-	ROD	ELEV.
		892.04			

73+00

81.1

74+00

80.8

75+00

80.9

76+00

81.0

T.P. 9.12 894.46 ✓ 6.70

885.34 ✓

77+00

81.0

77+47 Δ LT.

80.8

78+00

80.9

79+00

80.8

T.P. 6.69 889.68 ✓ 11.47

882.99 ✓

80+00

80.6

81+00

80.0

82+00

79.9

83+00

79.5

83+80 = S.L.

9.40 880.28 ✓

B.M.

5.45 884.23

$$\begin{array}{r} 4 \\ 10.9 \\ \hline \end{array} \quad \begin{array}{r} 85.8 \\ 6.7 \\ \hline \end{array}$$

$$\begin{array}{r} 11.2 \\ \hline \end{array} \quad \begin{array}{r} 85.4 \\ 6.6 \\ \hline \end{array}$$

$$\begin{array}{r} 11.1 \\ \hline \end{array} \quad \begin{array}{r} 85.0 \\ 7.0 \\ \hline \end{array}$$

$$\begin{array}{r} 11.0 \\ \hline \end{array} \quad \begin{array}{r} 85.3 \\ 6.7 \\ \hline \end{array}$$

$$\begin{array}{r} 13.5 \\ \hline \end{array} \quad \begin{array}{r} 84.2 \\ 10.3 \\ \hline \end{array}$$

$$\begin{array}{r} 13.7 \\ \hline \end{array} \quad \begin{array}{r} 85.7 \\ 8.8 \\ \hline \end{array}$$

$$\begin{array}{r} 13.6 \\ \hline \end{array} \quad \begin{array}{r} 83.3 \\ 11.2 \\ \hline \end{array}$$

$$\begin{array}{r} 13.7 \\ \hline \end{array} \quad \begin{array}{r} 83.5 \\ 11.0 \\ \hline \end{array}$$

$$\begin{array}{r} 9.1 \\ \hline \end{array} \quad \begin{array}{r} 83.1 \\ 6.6 \\ \hline \end{array}$$

$$\begin{array}{r} 9.7 \\ \hline \end{array} \quad \begin{array}{r} 82.4 \\ 7.3 \\ \hline \end{array}$$

$$\begin{array}{r} 9.8 \\ \hline \end{array} \quad \begin{array}{r} 81.5 \\ 8.2 \\ \hline \end{array}$$

$$\begin{array}{r} 10.2 \\ \hline \end{array} \quad \begin{array}{r} 80.6 \\ 9.1 \\ \hline \end{array}$$

WATER SURFACE BALDWIN LAKE - MAY 4, 1937
 NAIL IN 4" POP. LT. 78+25

STA. + H.I. — ROD ELEV.

T.P.	10.21	893.38	883.17
T.B.M.		4.92	888.46

5-4-37

(10)

~~B.M. N. END 24" CULV. UNDER "J"~~
TOP MONT - N $\frac{1}{4}$ COR. SEC. 2 - T-30-R-33

Replaced 24" C.M. -
installed 36" X 60' C.M. Pipe
June 12, 1974

STA. + H.I. - ROD ELEV.

NORTH ALONG LINE PROLONGATION

B.M. 5.20 893.66 888.46
 58+60 = E. Co. RD. U
 59+60 7.5 86.2

60+22 E DITCH

60+60 6.7 87.0

61+60 7.5 86.2

62+60 8.0 85.7

63+60 7.0 86.7

64+60 7.6 86.1

65+60 7.8 85.9

66+60 7.3 86.4

67+60 6.4 87.3

68+60 7.6 86.1

69+60 7.7 86.0

70+60 7.9 85.8

T.P.
 71+60 4.59 891.01 7.24 886.42

5-4-37

(11)

OF $\frac{1}{4}$ SEC. LINE - SEC. 2 - T-30-R. 23

TOP MONT. N $\frac{1}{4}$ SEC. 2 - T-30-R-23

90° Δ TO LT. THENCE WEST TO DITCH
71+72.4 TO E. & W. FENCE LINE

STA. + H.I. - ROD ELEV.
891.01

72+60 2.3 88.7
T.P. 7.54 98.15 0.40 90.61 ✓

73+60 3.0 95.2

74+60 5.0 93.2

75+60 8.1 90.1

76+60 3.9 94.3

77+60 6.7 91.5

78+60 13.00 85.2

T.P. 6.30 91.51 12.94 85.21 ✓

78+93

B.M. 7.59 883.92

5-4-37

(12)

E DITCH #8 (STA. 77+00)

STA. + H.I. - ROD ELEV.

RICE CREEK

B.M. 4.05

885.29

W.S. RICE CR. + "J"

9.85

W.S. RICE CR.

9.60 879.74

(13)
MAY 4, 1937

POLE 25' LT. STA. 185+25

AT EAST CULVERT

300' EAST OF B.M. 150' N. OF E.R.D.
STA. 188+50

STA. + H.I. - ROD ELEV.

Pt.	AZIMUTH	DIST	ELEV.
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DISTANCE TO POINTS FROM N¹/₄ COR-
SEC. 2-T-30-R-13

# 1	N 40°-41' W	1133	900.00
# 2	N 45°-50' W	1082	900.00
# 3	N 58°-18' W	1148	900.00
# 4	N 73°-30' W	780	900.00
# 5	N 68°-00' W	423	900.00

LOCATION RICE CREEK

7 889.10

LOCATION AZI. STADIA ROD ELEV. 885.29
B.M. 3.80

① #1

W.S. 35°-30' 3.97 9.80 879.30

BANK 7.3

W.S. 3°-30' 1.78 9.8 879.30

BANK 7.6

W.S. 336°-20' 3.60 9.8 ✓

BANK 7.2

W.S. 301°-30' 3.20 9.8 ✓

BANK 6.7

W.S. 301°-30' 4.30 9.8 ✓

BANK 7.5

POLE W.S. 295°-40' 6.72 9.6 879.50

BANK 6.7

① #2 294°-43' 6.70 6.07 883.03

AT ① #2 H.I. 887.53 H.I. 4.50

① #1 114°-43' 6.70 883.03

W.S. 8.04

W.S. 289°-30' 2.60 7.90

BANK 4.50

W.S. 6.97 6.46

① #3 289°-05' 6.79 5.48 882.05

$0^{\circ}00' = \text{NORTH}$

$270^{\circ}00' = \text{EAST}$

5-10-37

T A.W.L.

GOTTFRIED

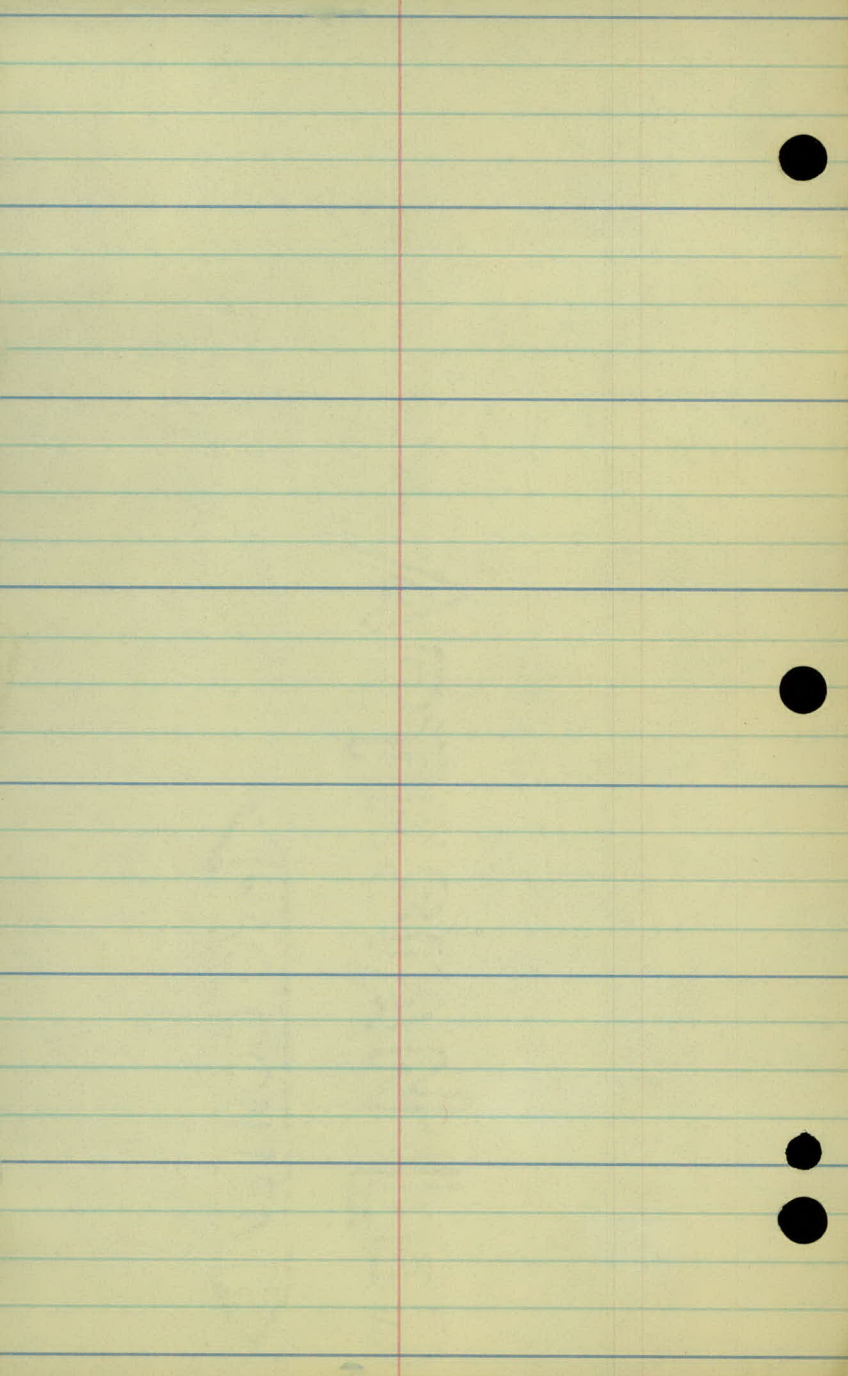
GOLDBERG

(17)

185+25 Lt. Co. Rd. "J"

MONT.

E CREEK - 15' N.



H.I. 886.08

H.I. 4.03

LOCATION	AZI.	STADA	ROD	ELEV.
ATO #3				882.05

O #2 109°-05' 6.79

O #4 327°-04' 6.92 2.51 883.57

W.S. 6.48

W.S. 338°-30' 4.18 6.48 879.60

BANK 5.1

H.I. 887.77

H.I. 4.30

ATO #4				883.57
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O #3 147°-04' 6.92

O #5 332°-06' 8.44 1.37 886.40

W.S. 218°-15' 0.72 8.0 879.8

BANK 5.8

W.S. 313°-10' 4.62 7.9 879.9

BANK 5.6

H.I. 890.50

H.I. 4.10

ATO 5				886.40
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O 4 152°-06' 8.44

O 6 278°-30' 12.29 7.60 882.90

W.S. 284°-00' 1.40 10.60 879.9

H.I. 887.44

H.I. 4.54

ATO 6				882.90
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O 5 98°-30' 12.29

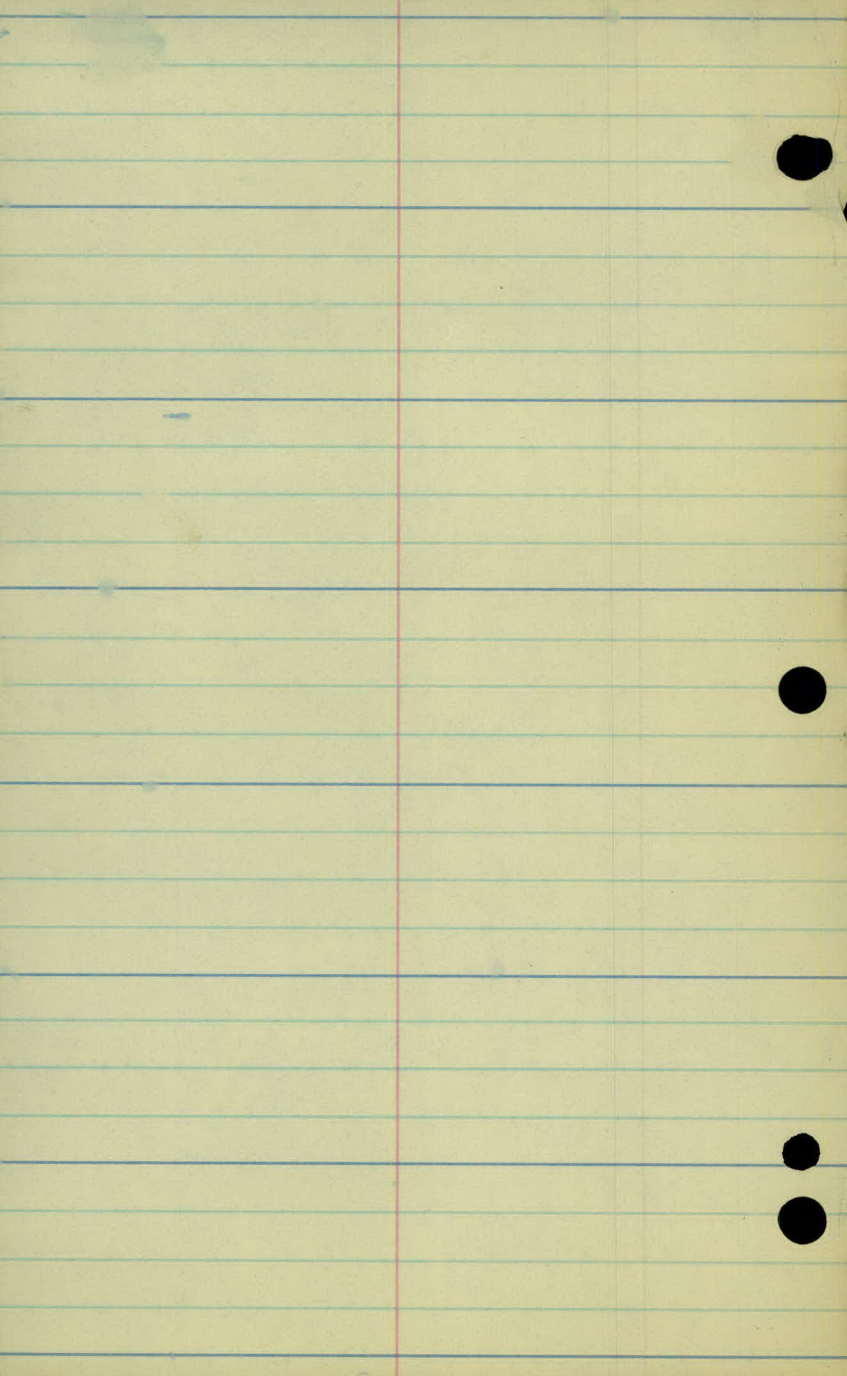
O 7 342°-29' 8.38

W.S. 210°-00' 1.22 7.44 880.00

5-10-37

(19)

E LINE CR. 30' S.



50

34

LOCATION AZI STANA COD ELEV

H.I. 4.62

AT 07

06 $162^{\circ}49'$ 8.38

08 $345^{\circ}20'$ 13.72

W.S. $103^{\circ}50'$ 4.60

W.S. $121^{\circ}00'$ 7.00

W.S. $21^{\circ}50'$ 2.85

TO POINT #1 $8^{\circ}15'$

H.I. 4.65

AT 08

07 $165^{\circ}20'$ 13.72

09 $357^{\circ}25'$ 9.81

TO PT. #1 $112^{\circ}00'$

H.I. 890.00

H.I. 5.00

AT 09

885.00

08 $177^{\circ}25'$ 9.81

010 $305^{\circ}43'$ 14.20

W.S. $92^{\circ}00'$ 2.33 9.70

880.30

" $17^{\circ}15'$ 3.75 9.70

OPP. SHORE $60^{\circ}00'$ 12.00

INLET $280^{\circ}50'$ 4.40

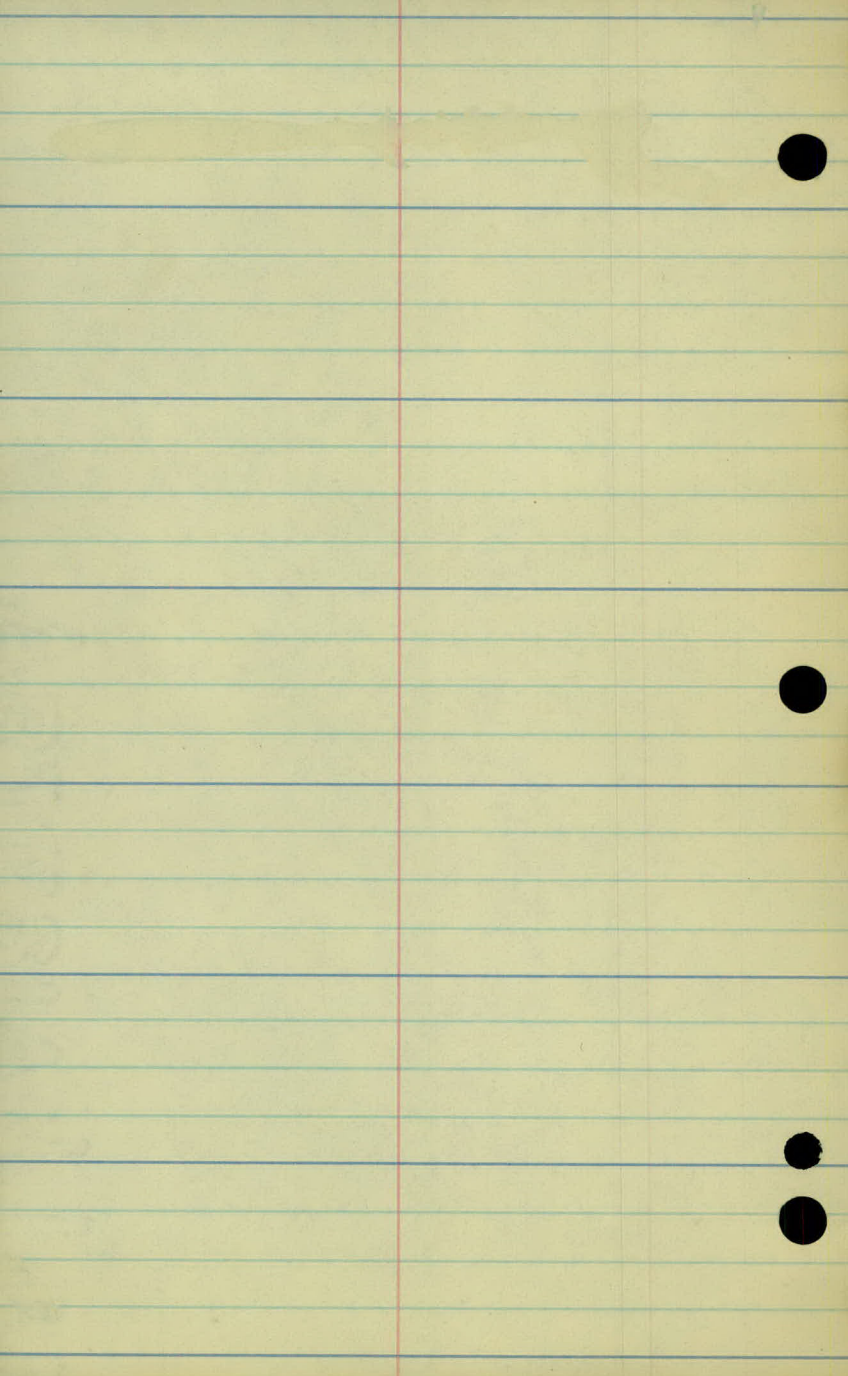
S.L. BALDWIN $242^{\circ}15'$ 4.30

MONT.
F.C. $292^{\circ}40'$ 0.54

5-11-37
HEAVY RAIN

(21)

ONTOP HILL ON SO. SHORE CREEK

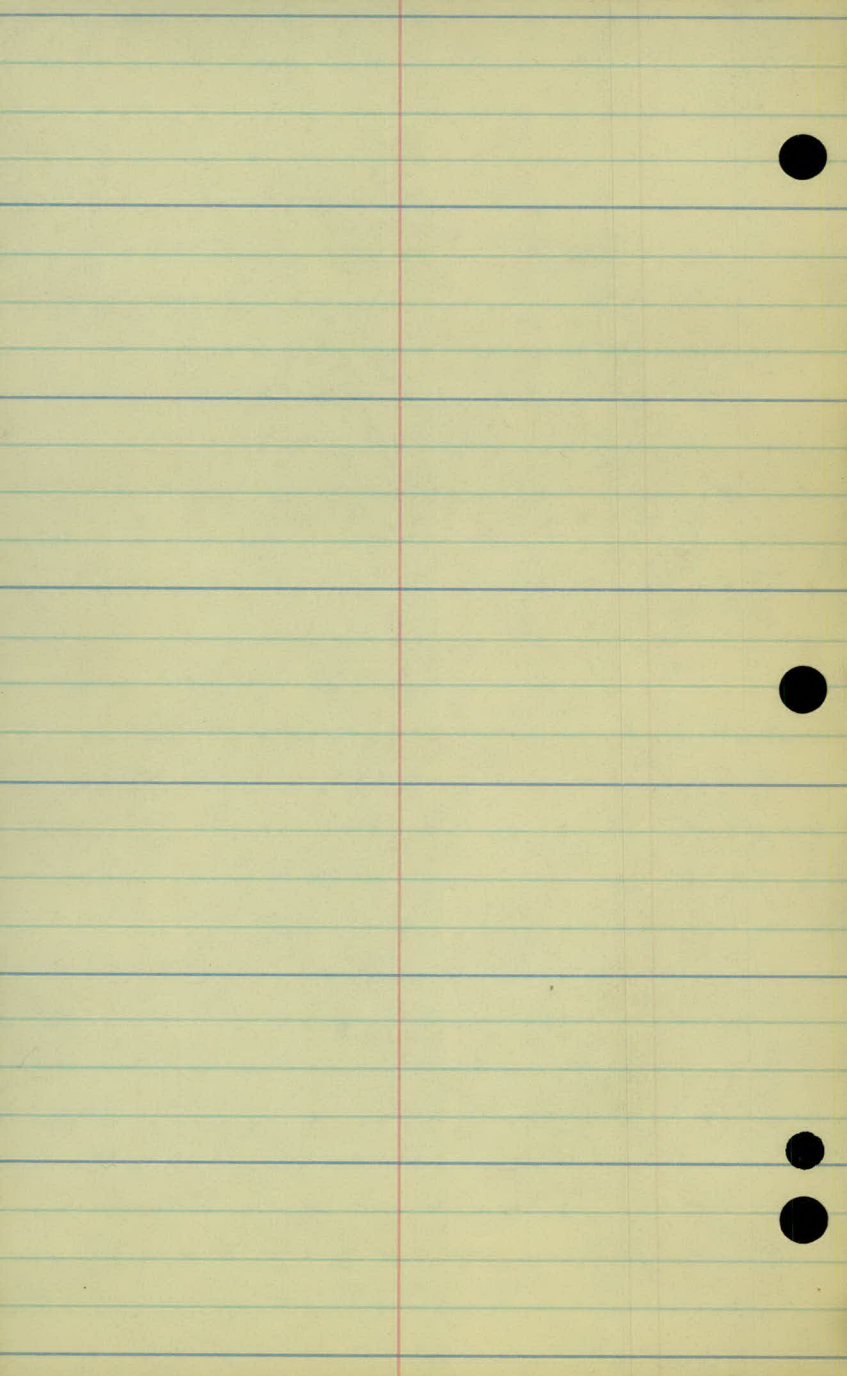


LOCATION	AZI.	STADIA	ROP	ELEV.
AT 010				
09	25°-43'	14.20		
011	221°-37'	10.17		
S.L. LAKE	305°-30'	1.80		880.40

AT 011				
010	41°-37'	10.17		
012	245°-05'	7.04		
S.L. LAKE	340°-00'	1.25		880.40
H.I.				890.77

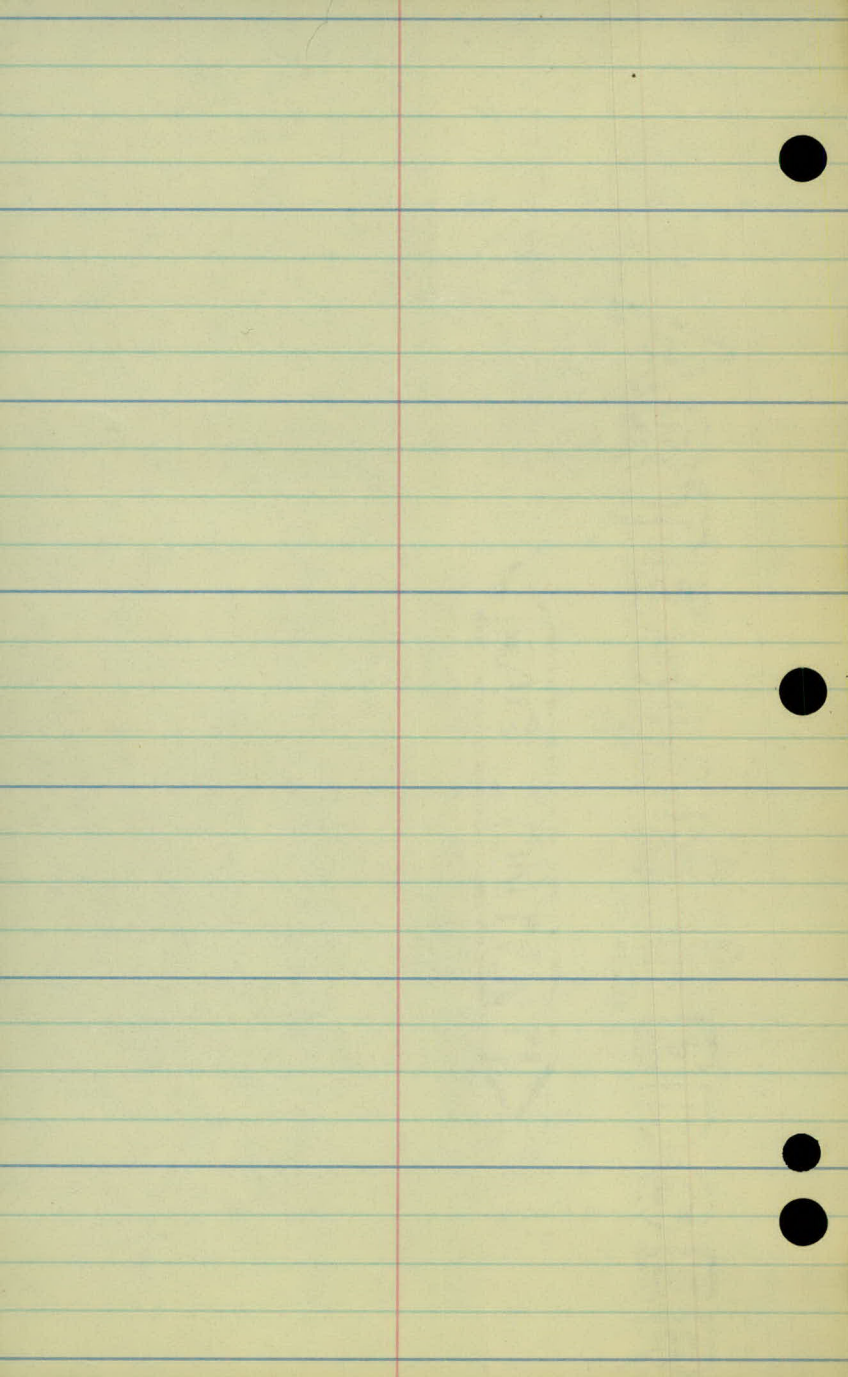
AT 012				
011	65°-05'	7.04		886.10
013	220°-29'	11.66		
50' X 40'				
N.W. PUMPHO.	269°-45'	0.66		
10' WIDE				
OLD DITCH	270°-00'	0.30		
H.I.				910.01
H.I.				4.80

AT 013				
012	40°-29'	11.66		
014	210°-44'	6.71	8.10	901.91
BEG. DITCH	34°-00'	1.45	14.5	895.51



LOCATION	AZI.	STADIA	ROD	ELEV.
	H.I.	906.91	H.I.	5.00
At 014				901.91
013	30°-49'	6.71		
015	208°-34'	7.95	6.30	900.61
Δ DITCH	300°-00'	0.16	9.50	897.40
	H.I.	905.37	H.I.	4.76
At 015				900.61
014	28°-34'			
016	210°-12'	8.02	3.18	902.19
Δ DITCH	290°-00'	0.09	8.00	897.40
	H.I.	907.19	H.I.	5.00
At 016		STA. 256+00		902.19
015	30°-12'	8.02		
B.M. MONT	269°-58'	2.71	2.18	905.01
F.L. 24" C.M.	53°-35'	0.42	10.15	897.04

B.M. HODGSON & CO. R.D. "J" 258+70.70
DITCH



LEVELS FROM HUB # 14 TO BALDWIN LAKE

STA.	+	H.I.	-	ROD	ELEV.
HUB. #14	8.10	910.01			901.91
T.P.	0.30	896.99	13.32		896.69
T.P.	3.71	889.81	10.89		886.10
W.S. LAKE				9.40	880.41

CHECK-ELEV. BALDWIN LAKE

BELOW BRIDGE ON HODGSON & LICE CR.

BELOW FLOOR - 9.22 = W.S. 880.30

" CURB 10.09

CHECK ELEV. ELWELL RD. & S.T.H. #8

B.M.	5.49	914.97			909.48
U.S.G.S.				4.24	910.73
PAVE.				4.94	910.03

(27)

5-12-37

A AWL

C.G.

GOLDEN

HUB #12

MAY 12, 1937 BALDWIN LAKE

FLOOR = 889.50

(910.92) U.S.G.S. ELEV.

1 1/4 MILES No. OF Co. Rd. "J" ON ELWELL RD.

