

Dr. 11A BK. 32

Prior Ave., 650' No. Co. Rd. "D" to 1275' No., Revised

OFFICE OF COUNTY ENGINEER

RAMSEY CO. MINN.

Between Lots 12 & 13 Lake Ojasson Hts, Rd. "A"
" " 33 & 34 " Survey " " Rd. "H"

Prior Ave., Glenview St. No. 11

Nixon's Prop., Gravel Pit

From..... To.....

Road Acc't. No.

Date Filed. 11-14-46

File.....

1

Profile Levels

Prior Ave

11-19-46

HAW

AM

M.B

Drawn up
11/46 WJB

Sta	+	$\bar{A}$	-	Elev
B.M	4.76	916.16		911.40
	7.06	921.16	2.06	914.10
	7.29	922.70	5.75	915.41
	10.46	927.67	5.49	917.21
B.M	2.66	927.67	2.66	925.01

0+00 ~~2~~ Co Rd D 23.0

+12 22.7

+50 24.1

+80 24.6

1+00 24.5

+50 23.7

2+00 22.2

+50 21.2

3+00 20.5

Lt

K

Rt

Spk in P.P. S.W. Cor Ditch #5 + Co Rd D

Spk in B.E. 0-32 + K Prior Ave

K

4.7

5.0

24.7

24.6

3.0

3.0

3.1

3.1

3.2

25.9
Elev Gr at H₀
1.8

4.0

22.4

22.8

5.3

5.5

4.9

20.8

6.5

6.9

7.2

20.17
Elev Gr at H₀
7.5

Sta	+	Δ	-	Elev
		927.67.		
3+50				20.1
4+00				19.9
T.P	6.41	926.44 ^s	7.63	920.64.
+40	R Glennpaul			19.5
5+00				18.7
+50				18.6?
+65				18.5
6+00				18.2
+53				18.3
+59				19.8
7				21.7
+44				21.3
+60				15.4

2

21.1

Elev Gr at H₀
6.6

7.6

21.9

20.4

5.8

7.8

7.3

19.5

7.0

7.0

7.00

Low Spot
East of Prior

21.0

19.7

5.5

7.8

6.8

9.9

16.6

20.0

Elev Gr at H₀
6.5

7.5

Ga H₀ 19.07
7.38

20.3

8.0

6.2

8.3

8.2

6.7

4.8

5.2

11.1

Sta	+	π	-	Elev
		926.44 ⁵		
8+00				16.1
+50				17.1
9				17.0
+50				16.8
10				16.2
+50				16.8
11				16.8
T.P	786	925.35 ³⁶	8.95	917.49 ⁵⁰
+50				16.2
12				15.6
+50				15.1
13				14.0
+50				12.3

Lt

(23.1)

3.4

~~L~~
Ditch

10.4

RT

(23.1)

3.4

(24.9)

1.6

9.4

9.5

(24.9)

1.6

(23.9)

2.6

9.7

10.3

(23.9)

2.6

(23.4)

3.1

9.7

9.7

(23.4)

3.1

(24.3)

1.1

9.2

9.8

(24.3)

1.1

10.3

(21.8)

3.6

11.4

(21.8)

3.6

13.1

Sta	+	Δ	-	Elev
-----	---	---	---	------

925.36

14				11.4
----	--	--	--	------

+30

08.1

WTB

B.M

3.79

921.57

921.57

Lt.

Z

Rt

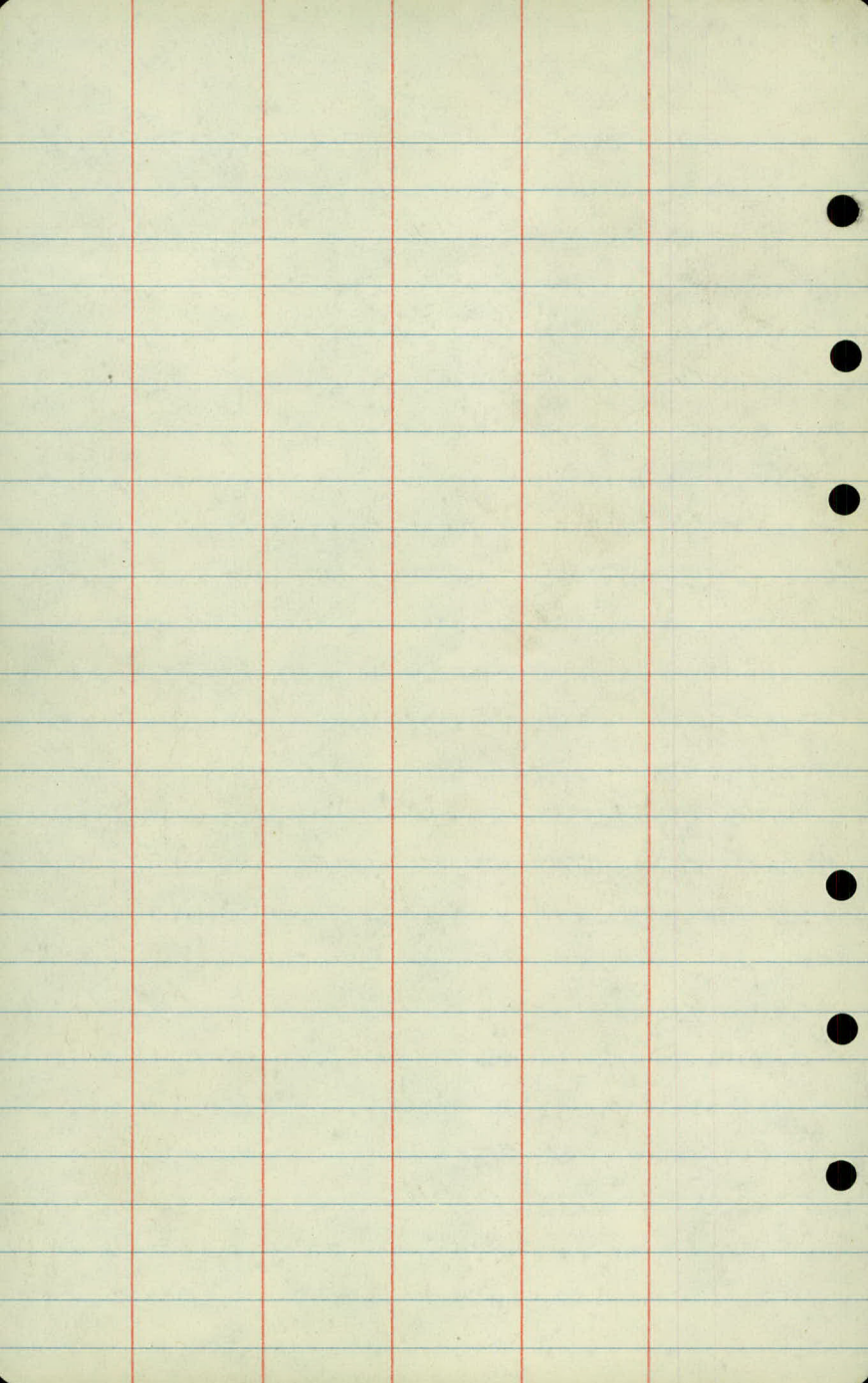
Ditch

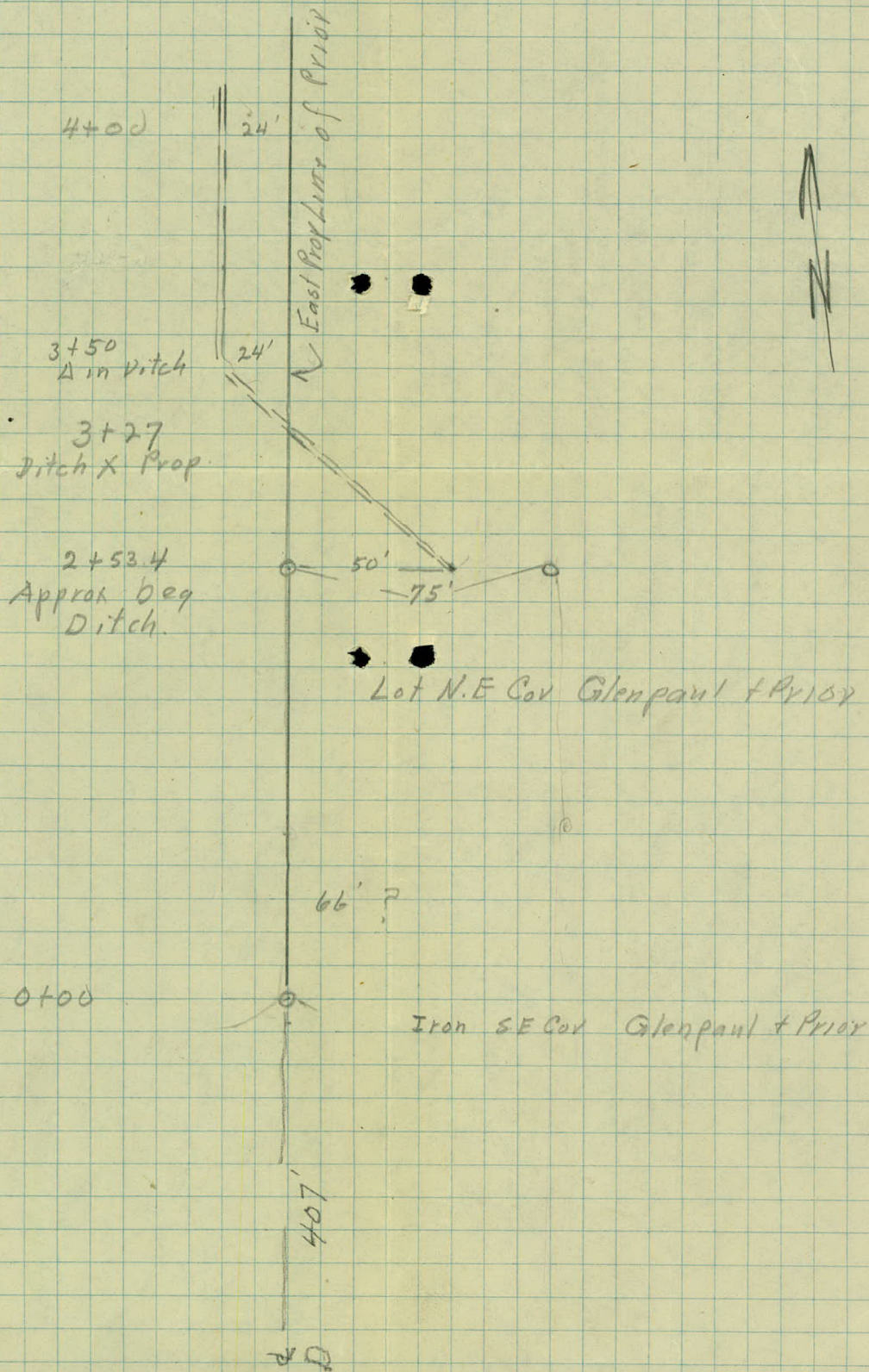
140

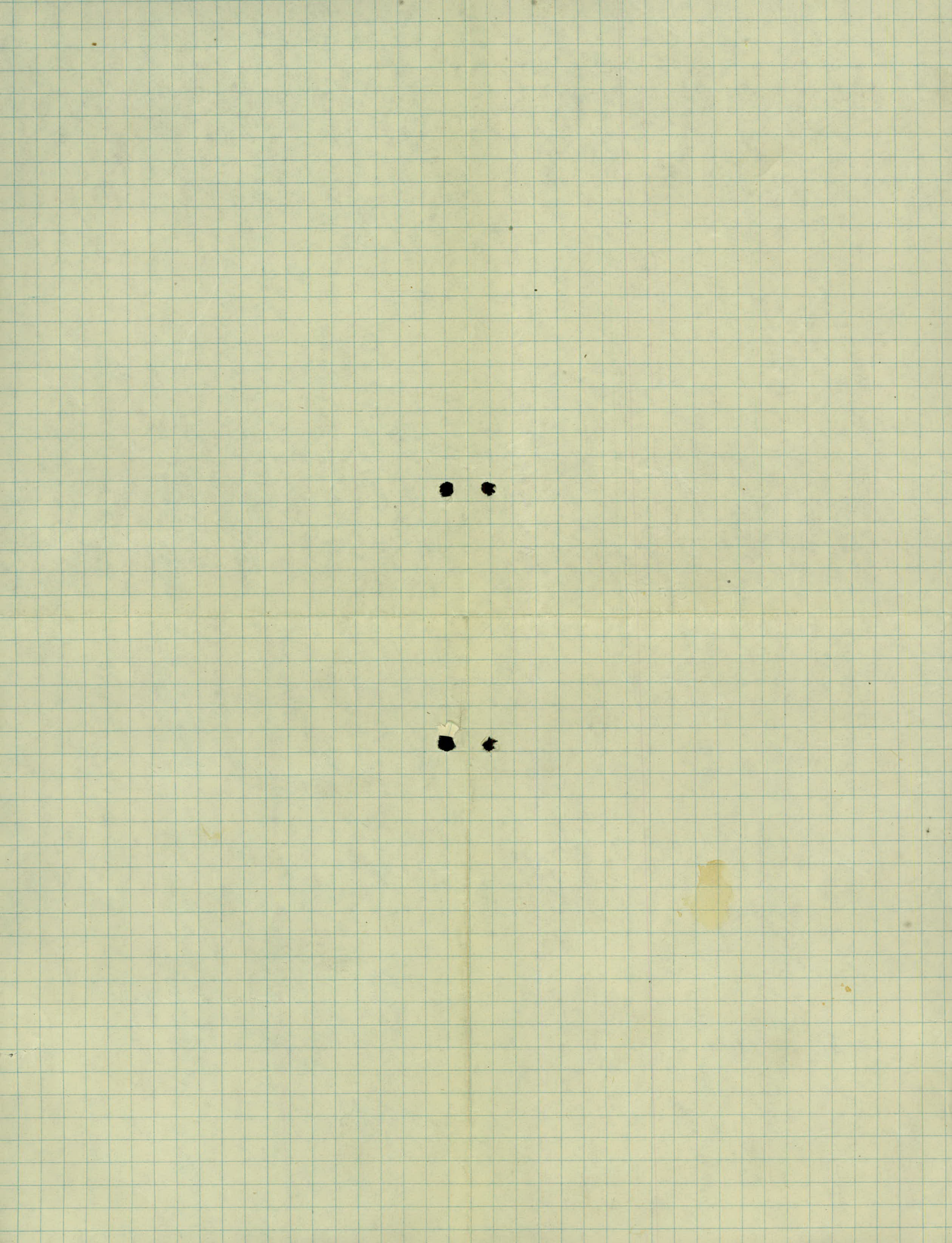
SWP.

17.3

Sp in P.P Rt 13+ 30







M.V

DRAINAGE SURVEY
between
LOT 12 & 13 LAKE OWASSO HEIGHTS

INDEX

Align. 1-2

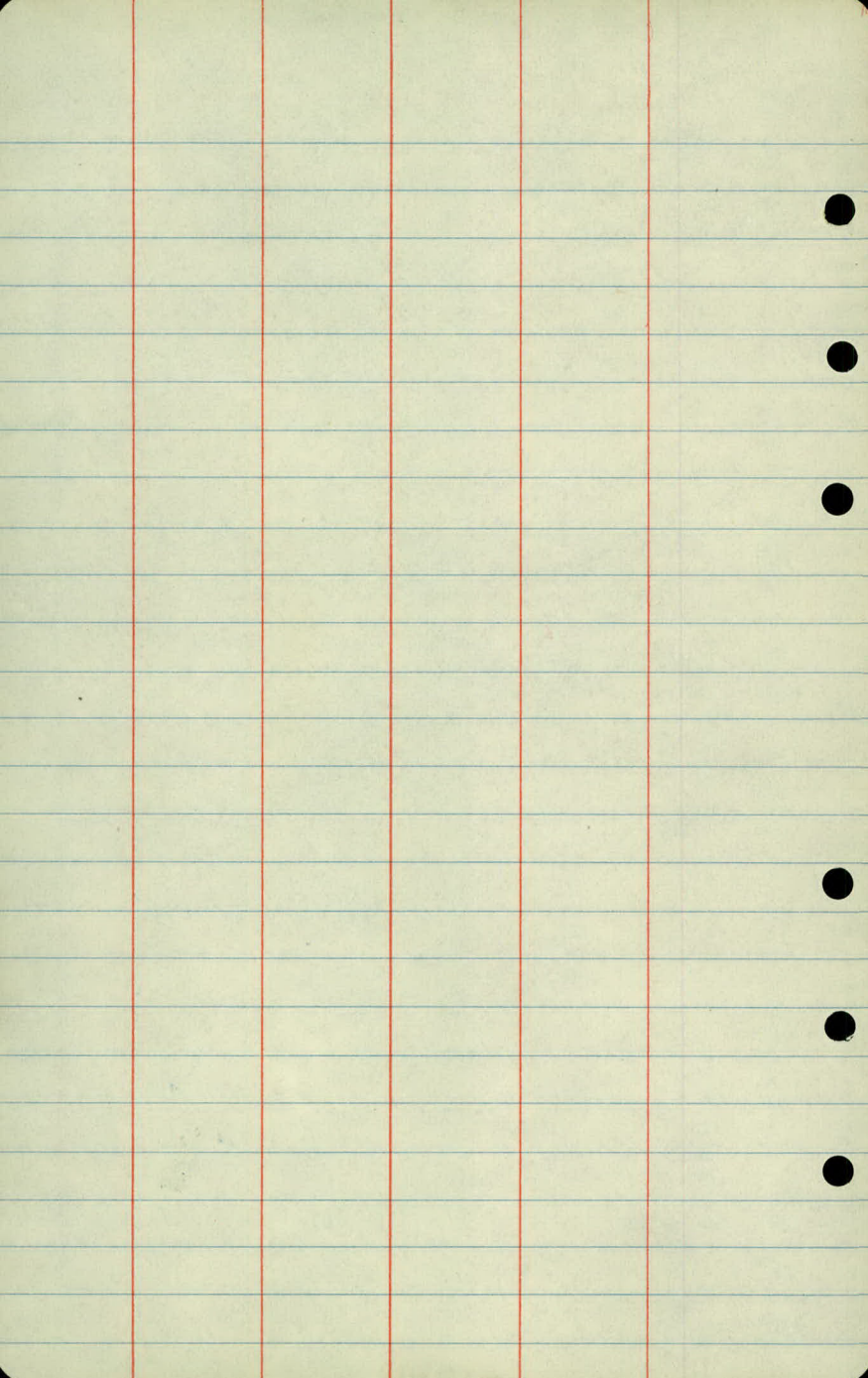
Topog. 3-4

X Sections 5-7

K. A.

10-11-46

Rec'd 10/14/46
Drawn up 10/46



Alignment

251

Sta	Point	ΔL	ΔR
-----	-------	------------	------------

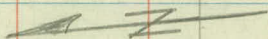
1	+59± P.O.T.		
---	-------------	--	--

0 +33	P.O.T.		
-------	--------	--	--

0 +00	= So. R/W. Line		
-------	-----------------	--	--

Base line 4' north
of prop line

Cor.
Ho. 27.22-



Lot 12

Lot 13

Lot Iron

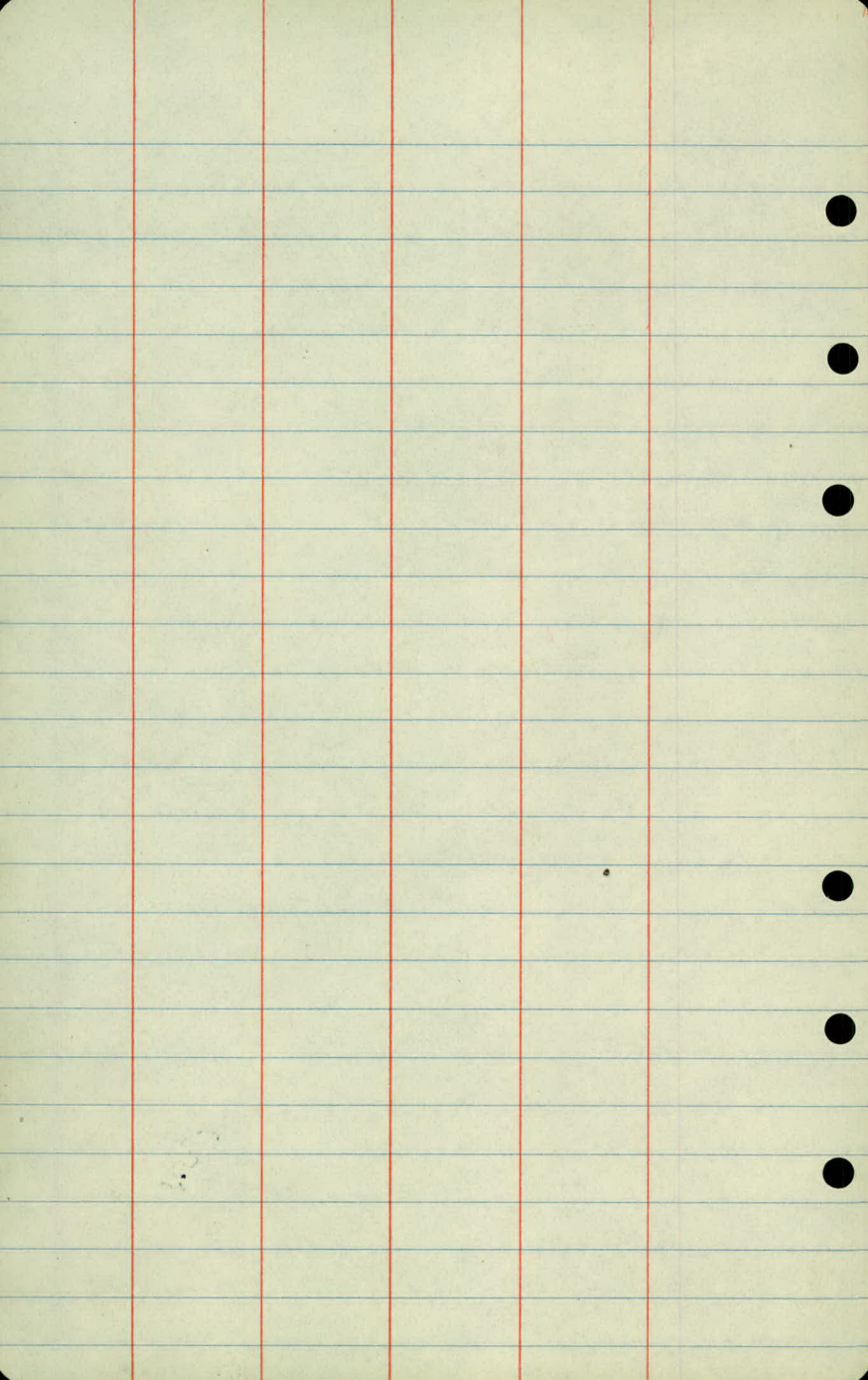
30° 0'

5.81

22.54

18° 0'

33'



Topography.

+68-Wafers Edge

+55-Fc Cor-4'

2
+10-8" Tw. Oak-3'

+10-10" Oak-9'

+59-S. E. Cor Ho-27'
+59-Std-5'

+90-1" Cedar-8' +92-Pine Shrub-10'
+83-1" Cedar-7'
+80-Pine Shrub-10'
+77-1" Cedar-7'
+75-Pine Shrub-9'
+70-Lillike-12' +87-Pine Shrub-10'
+68-2" Pine-8'
+69-Fc-45'
+66-End Wall-45-6'

+93-15" O-10'

+28-N.W. Cor Ho-28'
+23-18" Oak-5'

1
+93-14" Oak-6'

+81-Bsq. Rubble Wall-4'-5.5'
+75-14" O-2'

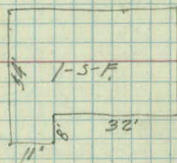
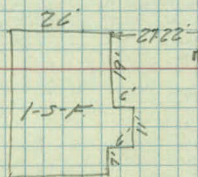
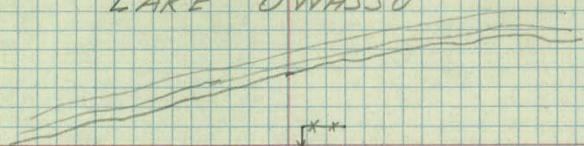
+60-N.W. Cor. Cor-6'
+59-Hedge-3'

+93-Hedge-4'
+26-Edge Black Top

+12-Edge Black Top
+02-30" Oak-7'

0

LAKE OWASSO

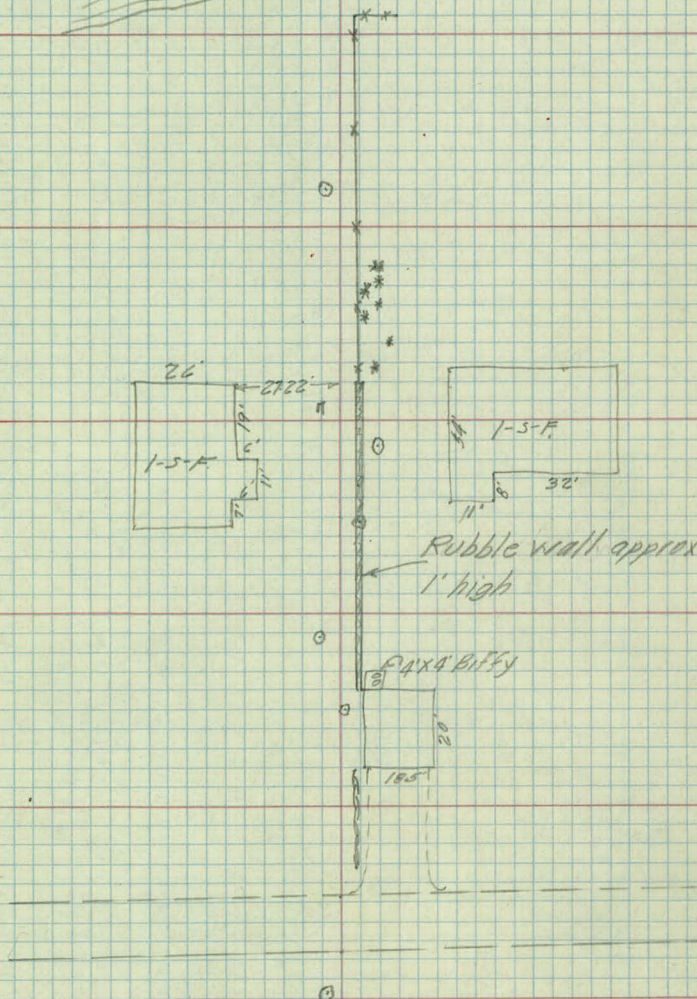


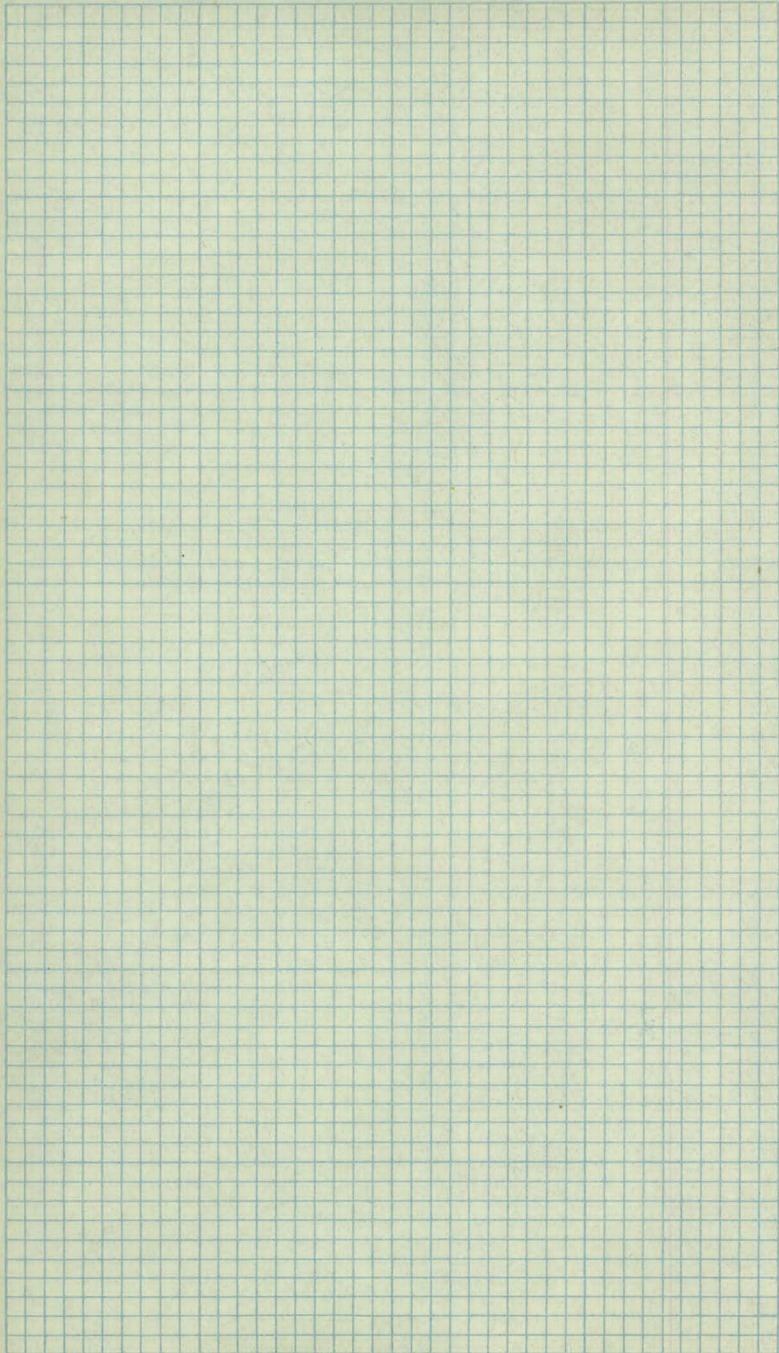
Rubble wall approx.
1' high

2'4"x4' Bitty

20'

18.5'





Profile Levels

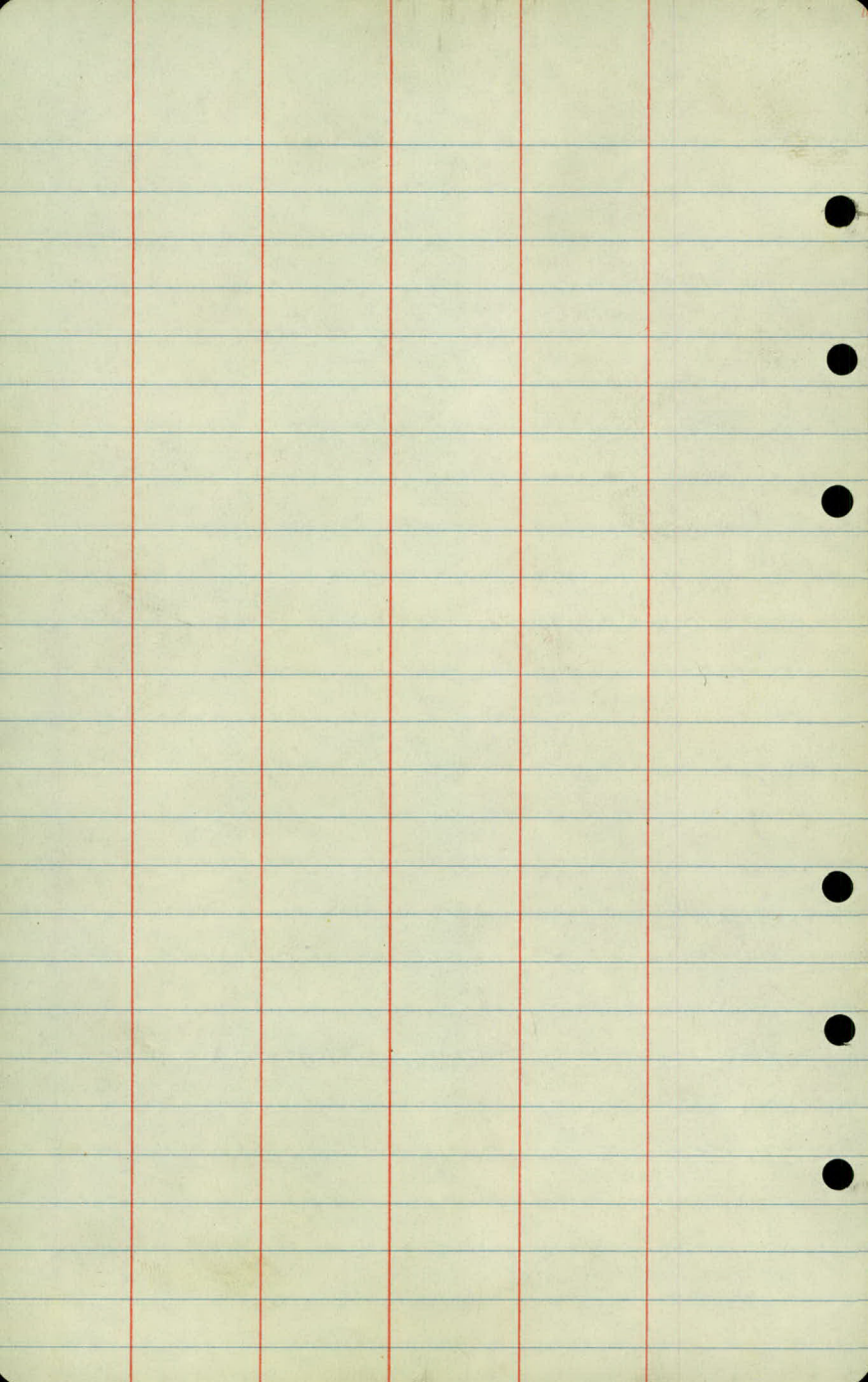
Note: Profile along prop line is
approx. the same as on base line

Sta	+	-	Elev
T.P.	2629	913.19	886.90
BM,		2.72	910.47
0 +00		+3.7	16.9
+05		+2.9	16.1
+07		+0.2	13.4
+19		+0.1	13.3
+29		0.4	12.8
+43		2.4	10.8
+50		3.6	09.6
+84		4.4	08.8
1		4.7	08.5
+39		5.3	07.9
+50		5.8	07.4
+75		8.5	04.7

Top S.E. Cor. Door Sill SE. Cor. Garage

Sta.	+	π	-	Elev
		91219		
1	+92		11.2	02.0
2			13.0	00.2
	+18		16.6	96.6
	+38		18.8	94.4
	+51		19.4	93.8
	+68 = Waters Edge.		26.29	86.90

$$\begin{array}{r} 11.45 \\ 14.84 \\ \hline 26.29 \end{array}$$



M.V

Topography

SURVEY BETWEEN LOTS 33-34

LAKE OWASSO HEIGHTS

Drawn up Nov. 1946

6 Pages

10-31-46

K.A.

H.M.

M.B.

+48-Water's Edge

+45 Plank Foot Bridge

+42

+42-Was built - 2'

+32-16" Oak - 5'

+31 Boat Ho - R 4'

+29-18" Oak - 2'

+23 Rubble Wall - 1'

+21-End of Steps - 8'

+05 Rubble Wall - 4'

+02-3rd Wide 2' Plank Steps - 8'

2 +00 Egg Wash out 00

+04-1' Plank Tr - 5'

+99-4' Edge - 4'

+92-18" Oak - 5' +93-End of Fg - 00 Fire Place - 3'

+83-End of Max. Steps - 9'

+68-Beg. " " " - 20'

+78-24" Oak - 6'

+74-Δ in 1 1/2" Water Pipe - 4'

+69-5' x 5'

+52-Beg. Flower Bed 5' x 1 1/2'

+46-Beg. Fg - 00

+46-18" Oak - 5'

+35-4' Plank - 6' +40-4" Trac - 00

+35-Cor Ho - 19'

+32-End of Wall - 11'

+32-5' x 2' - 2'

+32-4' Trac - 00

+31-5' x 2' - 4'

+14-End of 6" Dr. Tile - 5'

+17-6'

+12-6' x 2' - 6'

+13-Cor Ho - 19'

+10-3" Trac - 4'

+10-End of Fg.

+89-30" Oak - 7'

+40-Fg. Cor. - 00

+39-End 12" C.M. - 3'

+47-Rubble Wall to rt.

+34-Edge of Bl. Top

+18-Edge of Bl. Top

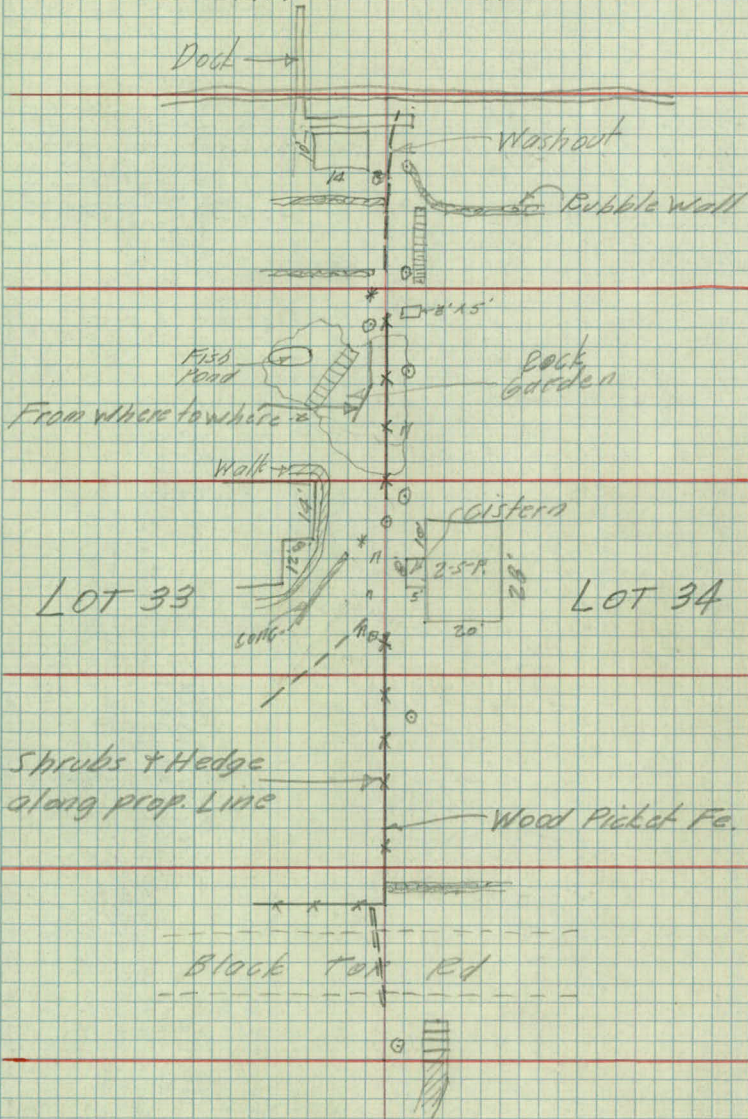
+10-End 5' Steps - 12'

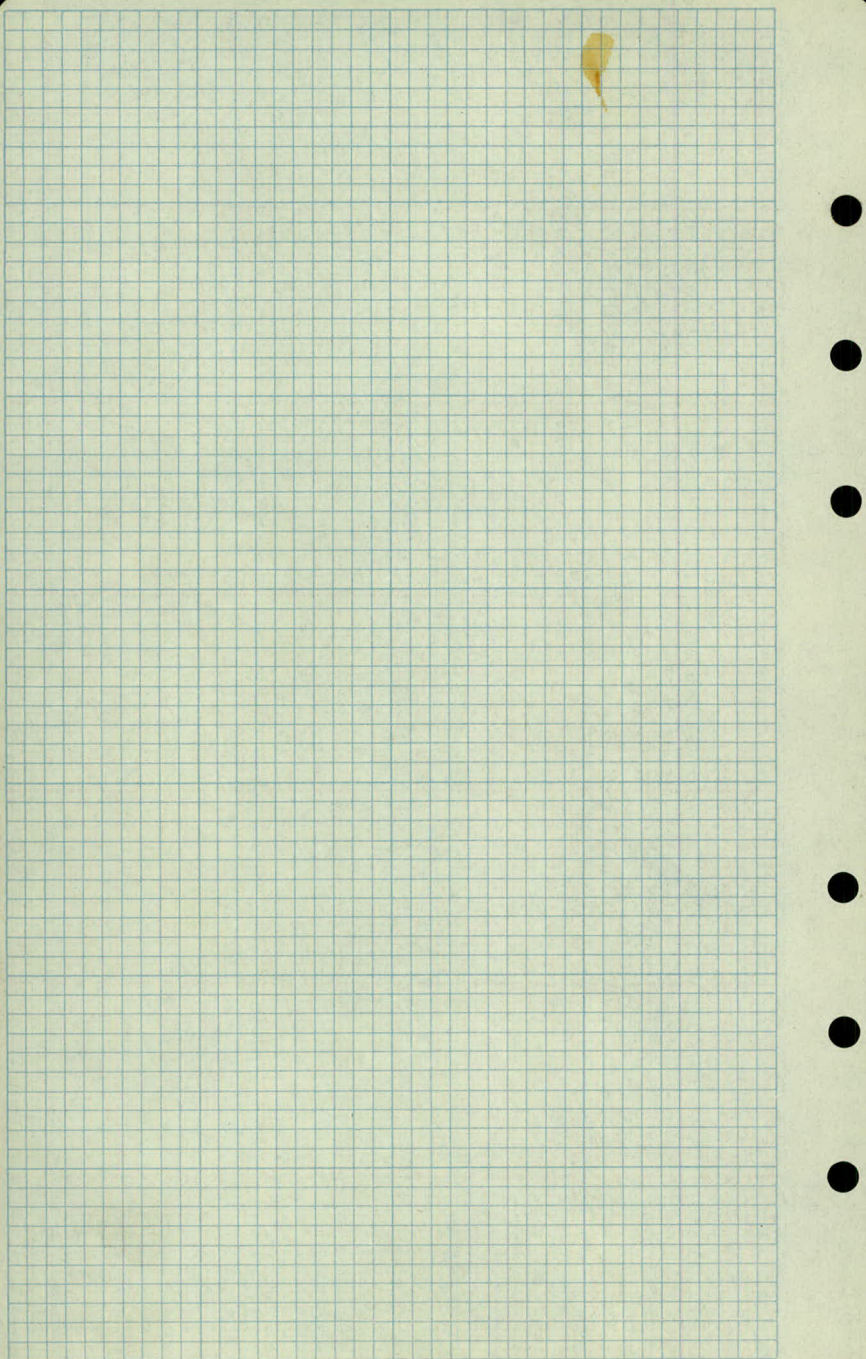
+03-15" Maple - 3'

+14-12" C.M. - 00

0

LAKE DWASSO





To Profile Levels

Sta.	+	-	Elev.
B.M.	12.85	923.32	910.47.
I.P.	13.97	936.19	0.50 922.82 .
I.P.	5.67	941.76	0.10 936.09 .
B.M.	3.42	937.70	7.48 934.28 .

0 +00 2.6 35.1

+11 4.8 32.9

+13 5.1 32.6

+14 F.L. 12 C.M. 5.7 32.0

+18 4.5 33.2

+26 4.6 33.1

+33 4.9 32.8

+35 5.1 32.6

+39

+40 5.6 32.1

L

E

E

Top of Car Door sill on Survey between Lots 12-13
Lake Owassee Heights

Spt. 10 P.P. #40 50 Ft. 0+42 X (934.28)

2

931.3
FL 12' CH 6.4
3

930.6
7.1
3

Washout

Sta	+	Σ	-	Elev
		937.70		
0 +50			7.1	30.6
+60			7.9	29.8
+84			10.2	27.5
1			12.6	25.1
T.P.	-0.02	924.33	13.35	924.35
+13			+2	
+14			1.2	23.1
+31			3.6	20.7
+35				
+45			5.8	18.5
+70			11.0	13.3
+84			13.8	10.5
T.P.	0.69	911.40	13.62	910.71
2				07.4

L

E

R

washest

87

4'

90

4

10.7

3

13.1

3

Top Sillcock

6" Dr Tile

922.33

2.0

5

2.2

3

48

923.43

0.9

S.W. Cor No 10'

922.73

1.6

Top of Cistern

919.93

4.4

19'-at Ho.

7.2

2

Top Bank

916.23

8.1

10'

12.8

2

14.0

5

15.0

1'

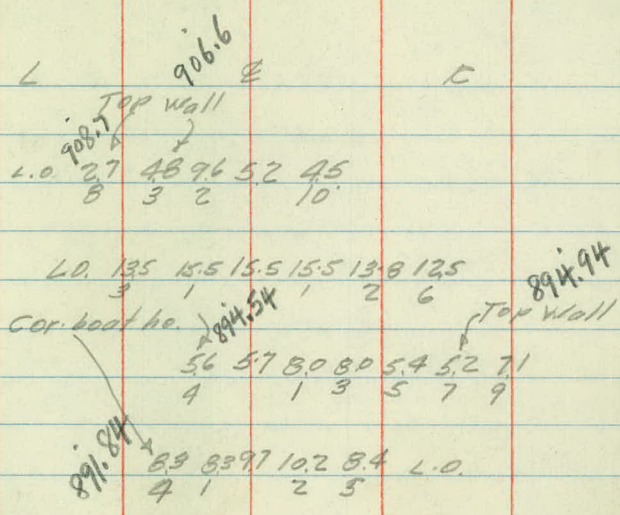
L.O. 2.5 6.1 4.0 3.5 4.0.

8

2

3

Sta.	+	π	-	Elev.
		911.40		
2 +05				06.2
+20				95.90
T.P.	2.23	900.14	13.49	897.91
+31				94.4
+41				90.4
+44 = El. foot bridge			B.B	891.34
+48 Waters edge			12.25	887.89
B.M.			12.25	887.89



Lake Elev. 10-31-46

Being an independent
survey use this elev. of water
as shown. 887.89
correct elev is 886.75
11/1/46
per ABE

886.75

M.V.T.

Profile Levels

Prior Ave

From Glendon North

Glenpaul St.

4-18-46

Cross section sheet
in pencil

4/18/46

Drawn up
L.C.

HAW

AM

C.F.

Sta	+	Δ	-	Elev
BM	3.61	920.55		916.94
	5.53	923.22	2.86	917.69
	4.05	<u>926.76</u> 928.76	0.51	922.71
BM	2.37	924.13	5.00	921.76

0400	Δ Glendon / Prior	19.4
+50		18.6
1400		18.5
+30		
+50		18.3
2		17.9
+15		18.3
+21		19.7

2

Top Mon Co Rd "D" + Cleve

Top N.W. Cor Btm Step Side Ent Ho S.E. Cor Prior + Glendon

19.93

4.2 Elev Low Spot 135' South Int Glen Lon + Prior

16.53

7.6 Elev Low Spot 60' No. Side Glendon 135' East of Prior

4.7

5.5

19.9

5.6

4.2 Elev Gr at Ho

19.0

5.1 Top Gra Slab

5.8

6.2

5.8

4.4

Sta	+	Δ	-	Elev
		924.13		
2+32				20.7
+50				20.8
3				20.9
+50				22.5
TP	5.70	928.67	1.16	922.97
4				23.9
+50				24.3
5				24.0
+50				24.2
6				23.7
+50				23.4
7				23.1
+50				23.4

~~4~~

3.4

3.3

3.2

1.6

15.7
pitch
13.0

48

44

47

45

50

53

56

53

Sta	+	π	-	Elev
		928.67		

8				24.4
---	--	--	--	------

+50				22.5
-----	--	--	--	------

9				16.2
---	--	--	--	------

T.P.	2.07	918.67	12.07	916.60
------	------	--------	-------	--------

+25				12.1
-----	--	--	--	------

+50				10.9
-----	--	--	--	------

+60		Edge Pathole		09.8
-----	--	--------------	--	------

T.P.	10.74	929.26	0.15	918.52
------	-------	--------	------	--------

	4.96	930.83	3.39	925.87
--	------	--------	------	--------

			7.00	923.83
--	--	--	------	--------

~~4~~

4.3

6.2

12.5

6.6

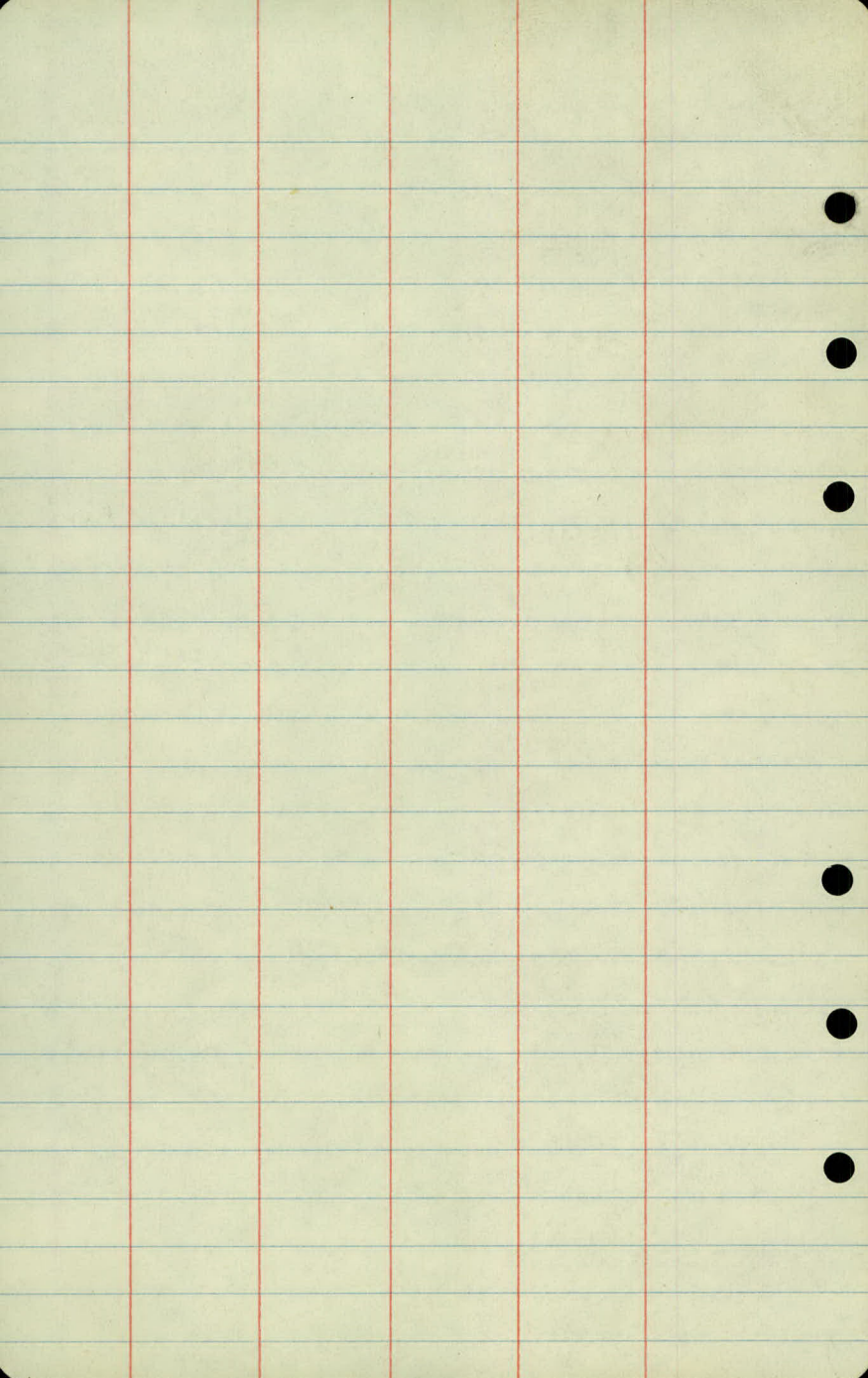
7.8

890 WS

07.2

Elev Waterhole

11.5



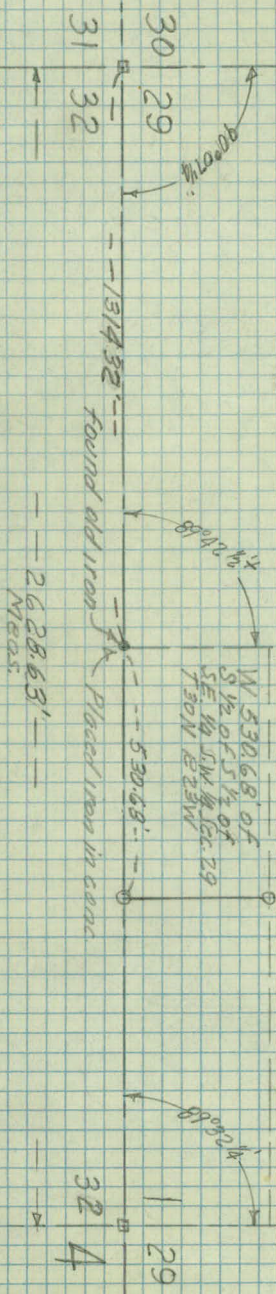
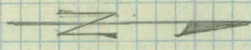
Nixen's
&
County

GRAVEL PIT SURVEY

Part of S $\frac{1}{2}$ of S $\frac{1}{2}$ of SE $\frac{1}{4}$
of S.W. $\frac{1}{4}$ Sec. 29-30-23

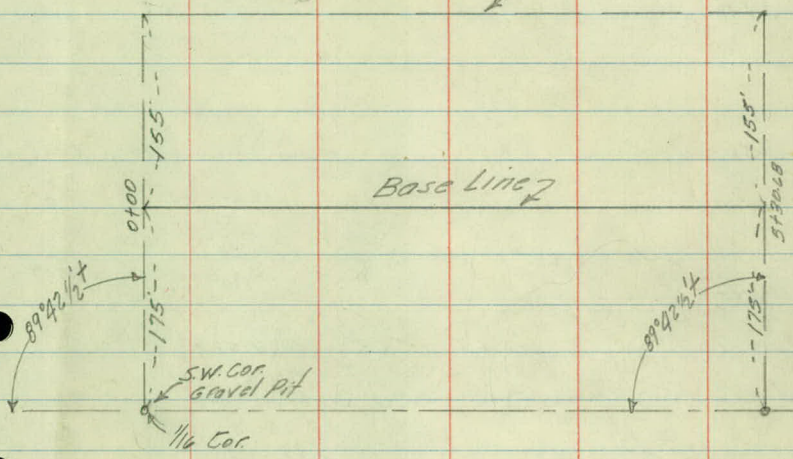
Worked up 7/20/40

INDEX.	Page
X Sections	- 2-7
Ranch Levels	- 8-9



Gravel Pit X Sections

Approx. to road



X Sections 200' rt.
" 155' ft.

Sta.	+	π	-	Elev
B.M.	10.95	928.61		(917.66)

0 +00 = & road.

17.8

+18

16.6

+28

23.5

+50

24.3

+75

25.1

T.P.	5.68	932.71	1.58	927.03
------	------	--------	------	--------

25.5

+25

25.4

+50

25.2

7-22-16
K.H.
A.M.
M.B.
C.F.

3

lt.

e

rt.

Top 1/6 Cor Iron S.W. Cor. Gravel Pit.

✓
149
117 111 108 108 106 105 103 99 110
155 100 50 50 100 147 169 175

✓
120 117 128 121 124 120 112 105 105 107 112 116 126
155 140 109 75 40 35 44 100 133 143 175 186

✓
121 120 136 95 78 60 51 65 89 88 96 87 95 103
155 144 125 100 51 28 41 52 71 100 128 157 175

✓
127 139 132 100 91 74 58 43 47 63 67 78 85 113
155 140 134 126 100 169 135 23 43 77 137 175 200

✓
134 136 143 87 77 68 48 35 25 27 45 59 69 66 100
155 142 136 126 100 77 40 31 63 100 138 168 175 200

✓
147 180 182 186 155 111 107 93 84 72 61 50 59 73 87 96 105 128
155 140 137 128 120 100 69 36 35 77 100 126 156 175 178 200

✓
184 187 106 103 89 80 73 67 49 44 69 79 89 107
155 136 121 100 69 38 35 69 100 149 175 78 200

✓
189 194 197 99 93 101 90 76 75 77 59 43 48 55 66 83
155 146 137 121 113 109 69 33 42 71 100 133 174 177 200

244

Sta	+	π	-	Elev
		932.71		

1	+75			24.9
---	-----	--	--	------

2				24.7
---	--	--	--	------

	+25			25.4
--	-----	--	--	------

	+50			27.0
--	-----	--	--	------

	+75			27.9
--	-----	--	--	------

3				26.8
---	--	--	--	------

T.P.	1.31	933.61	0.41	932.30
------	------	--------	------	--------

	+25			24.5
--	-----	--	--	------

	+50			20.9
--	-----	--	--	------

Lt.

E

Et.

19.5 199 205 191 88 92 94 85 78
155 149 138 131 119 100 65 31

79 68 48 40 43 35 44 6.3
35 68 100 141 168 174 177 200
ok.

✓

✓

12.6

30.7

n y.l

204 207 212 195 195 76 83 82 89 90
155 147 137 133 128 112 107 100 74 40

80 75 70 54 38 31 22 2.8 4.2
32 69 100 136 168 175 177 200

✓

✓

21.1 22.3 203 197 73 76 73 71 74 73
155 139 133 130 111 108 100 68 38

67 69 60 47 30 16 22 2.8
49 69 100 133 170 175 177 200
ok.

21.7 22.6 227 95 78 81 9.6 61 58
155 146 138 118 112 108 100 69 35

57 59 67 64 50 35 21 2.5
33 74 100 140 170 175 200

✓

✓

23.2 23.2 237 114 101 104 96 70 5.6 48
155 147 138 120 116 107 100 63 35

48 57 62 46 33 20 1.7
33 65 100 142 170 173 200

0.89

32.3

32.2

23.8 24.2 244 156 141 143 133 113 84
155 143 136 126 117 110 100 75 40

59 47 49 50 42 23 0.4 0.5
43 70 100 180 169 175 200

Top stake 173' rt sta. 31.05

✓

19.4 15.4 126 91
100 67 32

72 57 50 38 24 0.8 0.8
29 64 100 139 170 175 200

✓

12.7

12.7 101 7.8 60 47 33 20 0.7 0.2
34 51 80 100 133 169 175 200

Sta	+	π	-	Elev
		933.61		

3	+75			16.8
---	-----	--	--	------

4				(12.9)
---	--	--	--	--------

	+25			(09.1)
--	-----	--	--	--------

	+50			(05.6)
--	-----	--	--	--------

	+75			(02.7)
--	-----	--	--	--------

T.P.	-0.04	920.31	1326	920.35
------	-------	--------	------	--------

3	+25			(24.5)
---	-----	--	--	--------

	+50			(20.9)
--	-----	--	--	--------

	+75			(16.8)
--	-----	--	--	--------

Lt.

E

Rt.

✓

16.8 135 87 56 45 35 25 12 1.5
35 72 100 111 135 149 175 200

✓

+20.7

18.8 127 83 53 33 2.3 2.6
35 65 100 135 169 175 200

31.3 31.0

✓

+24.5

18.1 116 77 49 49 38 38
65 100 136 164 168 175 200

✓

+28.0

171 121 87 80 65 74
100 132 161 169 174 200

211

✓

+30.9

144 136 115 128
158 166 175 200

221

✓

121 128 134 76 68 75
155 144 137 125 120 113

-4.2

✓

130 134 148 121 114 110 85 3.8
155 146 138 132 116 100 75 35

+0.6

✓

141 115 74
84 60 30

+3.5

✓

Sta.	+	π	-	Elev.
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920.31

4

12.9

+25

09.1

+50

05.6

+75

02.7

5

99.4

+30.68 = End of Gravel Pit

96.6

T.P.

1.0

907.20

12.11

908.20

3 +75

16.8
9.2
6

4

12.9

LT.

E

PT.

113 74
30

✓

112 78
33

✓

✓

147

124 109 87
25 44 70

✓

17.6

95 50
100 130

✓

+20.9

149 112 68 63 41 57
100 132 161 167 175 200

✓

+23.7

140 123 120
168 175 200

Top Iron S.E. Con Grand Pt.

27 30 34 68 59 53 48
155 148 144 138 125 115 100

-76

✓

05.7

35 39 47 93 87 72 74 53 12
155 146 141 134 123 117 100 69 40

-37

✓

Sta + π - Elev.

907.20.

4 +25

(091)

+50

(05.6)

+75

02.7

5

99.4

+30.68

96.6

+50

94.6

B.M.

5.50

903.70.

(903.75).

Lt.

E

Et.

42 46 54 104 89 91 84 67 34 (+0.1)
 155 148 143 134 113 100 80 55 27

✓

49 55 61 119 107 110 103 80 49 (+3.6)
 155 147 144 133 125 100 72 42 14

✓

55 58 61 131 125 117 94 65
 155 147 144 132 100 61 29

37 42 27
 45 55 68

✓

0.2

60 63 67 149 138 137 119
 155 146 143 129 100 70 38

98 83 73 53
 35 61 85

✓

66 68 70 161 151 146 138 126 110 96 98 85 74 59
 155 149 143 128 100 75 38 34 57 73 100 119 145

✓

E
ditch

✓

66 73 166 173 186 192 160 153 149 149 146 128 114 114 106 92 80 70 62 51
 155 148 125 116 113 111 98 87 60 30 34 52 83 100 128 155 168 175 200
 Spk. in P.P. #60 N.E. Cor. Grove/Pl.

Sta.	+	π	-	Elev.
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7

7

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Elev

Bench Levels

Sta	+	-	Elev
B.M.	2.28 920.05		(917.77)
	0.71 910.73	10.09	909.96
	9.49 911.90	8.32	902.41
B.M.	8.16 911.90	8.16	903.74 (903.75)
	10.93 922.13	0.70	911.20
B.M.	4.47 922.13	4.47	917.66 (917.66)
	2.05 914.55	9.63	912.50
B.M.	5.88 909.64	10.79	903.76 (903.75)
	10.61 919.09	1.16	908.48
B.M.		1.31	917.78 (917.77)

45.64

55.63

20.10

31.74
20 10
917.77
11 64
906.13

SPK IN T.P. S.W. COR. LONG LAKE RD. + CO. RD. E

SPK IN P.P. 400' W U.S. #8 NO SIDE CORDE #60

TOP IRON $\frac{1}{16}$ COR S.W. COR GRAVEL PIT

SPK P.P. #60 400' W U.S. #8 NO. SIDE CO. RD E

SPK IN T.P. S.W. COR. LONG-LAKE RD + CORDE

