0+00 ℄ A-Line.
Inp. 36"x43'C.M.
O.K. Leave

0+00 ℄ B-Line
Inp. 15"x38'C.M.
Remove
Pl. 16'x38' C.M.

Lake Josephine

AVE.

Lake Imp. Pipe Line

Ramsey Co. Pump No. 3

116°49'

"A-LINE"

P.O.T. 5+35.5 A-Line
P.O.T. 8+67 B-Line

Farms

CUTOFF

WATER HOLE

SWAMP

Arden

Farms

P.I. 15+50
Δ 47°53' Rt.

3' Ditch

P.I. 17+00.5
Δ 25°42' Rt.

P.O.T. 18+55.30

P.I. 6+31.82
Δ 19°24' L

P.I. 7+18.35
Δ 18°11' Lt.

P.I. 9+11
Δ 25°32' Lt.

9+93.24
Δ 15°28' Rt.

Ditch

BRUSH & TREES

Arden SWAMP

"B-LINE"

POT HOLE Ditch

Laura Brimhall

Ent. Inp. 10"x27" Vit. P.
Remove.
Pl. 18"x20' C.M.

HAMLINE

LOW GROUND

P.I. 0+19.35
Δ 26°18' Lt.

These low spots to be Filled to grade.

ANOKA

BRUSH & TREES

Lake Johanna
Water Surface Elev. 876.56
10/21/40
Normal Elev. 877.50

Natural Ground — Varies — 3' — 3' — Varies — Nat. Ground
1:1 — Varies — 1:1
Ditch Grade

TYPICAL SECTION

B.M. Lake Imp.
Lk. Josephine
Elev. 887.13

B.M. Spk. Arc. L. Pole
S.E. Sta. 0+00 "B" Line
Elev. 883.88

B.M. Spk. P.P.
8+50 Lt. "A" Line
Elev. 887.16

B.M. Spk. 12" Oak
30' Rt. Sta. 18+00
Elev. 879.82

Water Surface Elev. 879.25 - 10-21-40

-0.08

B-LINE

0-18 EL 877.90

Pl. 16+60 EL 877.20

-0.17

A-LINE

EL. 876.85

EL. 876.62

Water Surface Elev. 876.56 10-21-40

-0.17

-0.02

ESTIMATED QUANTITIES

Excavation	Cu. Yds.	994
Furnish 18" C.M.	Lin. Ft.	20
Remove Old Culv.	Lin. Ft.	65
Place Culvert	Lin. Ft.	58
Furnish 18" C.M.	Lin. Ft.	38

OFFICE OF
RAMSEY COUNTY SURVEYOR
HARRY S. BRONSON

DRAINAGE PLAN

HAMLINE AVE. (Near S.T.H. #51) TO LAKE JOHANNA

OCT. 1940 SCALE AS SHOWN

PLANNED BY A. D. Swanton ASSISTANT ENGINEER

PLANS APPROVED 11/4 1940 Harry S. Bronson COUNTY SURVEYOR

APPROVED 11/4 1940 CHAIRMAN COUNTY BOARD

PLATE I-PLAN-PROFILE

SHEET 1 OF 3 SHEETS.

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