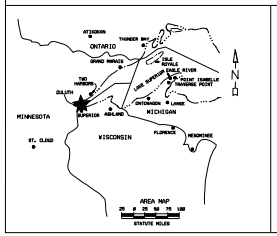

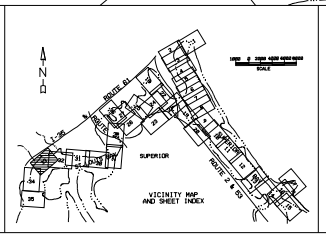

NOTES

1) THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THAT TIME.

2) ALL SOUNDINGS ARE IN FEET AND ARE REFERENCED TO LOW WATER DATUM ELEVATION 600.0 ABOVE MEAN SEA LEVEL, I.G.L.D. 1955.

3) PROJECT DEPTHS FOR THIS AREA ARE 28'

4) THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE MINNESOTA STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION. NORTH ZONE (2201), NORTH AMERICAN DATUM 1983 (NAD 83), US FOOT.

5) THE LOCATION OF NAVIGATION BUOYS REPRESENTS THE GENERAL LOCATION ON THE DATE OF THE SURVEY AND CANNOT BE CONSIDERED FOR NAVIGATION.

6) THE SURVEY SHOWN WAS CONDUCTED BY R. LUNDGREN, PARTY CHIEF DURING 27 OCT., 1999, USING D.P.G.S. POSITIONING, AN INNERSPACE 448 SOUNDER, AND A HYPACK AUTOMATED HYDROGRAPHIC SURVEY SYSTEM.

LEGEND

- HORIZONTAL CONTROL POINT
- DREDGING LIMIT TURNING POINT
- NO. CHANNEL LINE TURNING POINT
- NO. HARBOR LINE TURNING POINT
- HARBOR LINE
- CHANNEL LINE
- DREDGING LIMIT
- SHORELINE
- PROJECT DEPTH CONTOUR

SCALE IN FEET

NO.	DATE	REVISION	BY

U.S. ARMY ENGINEER DISTRICT, DETROIT
CORPS OF ENGINEERS
DETROIT, MICHIGAN

DULUTH-SUPERIOR HARBOR
MINNESOTA-WISCONSIN

CONDITION SURVEY - OCTOBER 1999

DULUTH AREA OFFICE — DULUTH, MN

DESIGNED BY:
DRAWN BY:
CHECKED BY:
REVIEWED BY:
SUBMITTED BY:
APPROVAL RECOMMENDED:
CHIEF, PROJ. OPNS. SEC.
CHIEF, OPERATIONS & MANAGEMENT BR
DATE
APPROVED:
CHIEF, CONST.-OPNS. DIVISION
(IN AS REQUIRED BY ENGINEERING CIRCULAR 1110-1-76)

SCALE AS SHOWN 1" = 100'
CADD FILE NAME C99033.DGN
DRAWING NUMBER
SHEET 1 OF 1

THIS PLAN ACCOMPANIES CONTRACT NO.
MODIFICATION NO.

INVITATION NO. DACW

DS7570/33-01