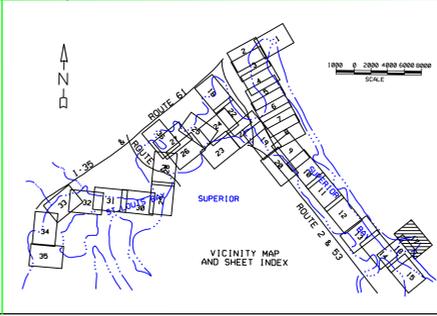
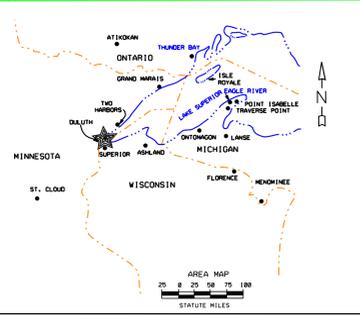
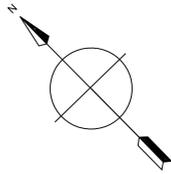


NOTE: BOX AREAS WILL BE DREDGED SPRING 2009 AND MAPS UPDATED AFTER DREDGING IS COMPLETED

NOTE: BOX AREAS WILL BE DREDGED SPRING 2009 AND MAPS UPDATED AFTER DREDGING IS COMPLETED



**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 601.1 ABOVE MEAN SEA LEVEL, T.O.L.D. 1985.
- 3) PROJECT DEPTHS FOR THIS AREA ARE 30.0'-32.0'
- 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 D.C. GOLTZ, PARTY CHIEF DURING 17 JUNE 2008, USING D.G.P.S. POSITIONING, INNERSPACE 448 SOUNDER, AND A HYPACK AUTOMATED HYDROGRAPHIC SURVEY SYSTEM.

**LEGEND**

- △ NO. HORIZONTAL CONTROL POINT
- NO. 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**

0 100 200 300 400 500

NO.	DATE	REVISION	BY

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

**DULUTH-SUPERIOR HARBOR**  
MINNESOTA-WISCONSIN

**CONDITION SURVEY - JUNE 2008**

DULUTH AREA OFFICE DULUTH, MN

DESIGNED BY: \*  
DRAWN BY: \*  
CHECKED BY: \*  
REVIEWED BY: \*  
SUBMITTED BY: \*  
APPROVAL RECOMMENDED: \*  
DATE: \*  
CHIEF, PROJ., OPNS., SEC. CHIEF, OPERATIONS & TECHNICAL SUPPORT BRANCH

COL. C.E. DISTRICT ENGINEER

SCALE AS SHOWN 1" = 100'  
CADD FILE NAME DS17C08.DGN  
DRAWING NUMBER