



**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 681.1 ABOVE MEAN SEA LEVEL, I.G.L.D. 1985.
- 3) PROJECT DEPTHS FOR THIS AREA ARE 23' & 27'

**--- NOTES ---**

SC - Baseline Stationing for South Channel Baseline  
 NC - Baseline Stationing for North Channel Baseline  
 CC - Baseline Stationing for Cross Channel Baseline

Baseline Intersection - 90-00 South Channel & 0-00 Cross Channel Baseline  
 Baseline Intersection - 83-45 North Channel & 0-00 Cross Channel Baseline  
 Baseline

**NOTES**

- 4) THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE MINNESOTA STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, NORTH ZONE (2281), 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 15-16 JUNE 2004 USING D.G.P.S. POSITIONING, AN INERSPACE 448 SOUNDER, AND A HYPACK AUTOMATED HYDROGRAPHIC SURVEY SYSTEM.

**LEGEND**

- HORIZONTAL CONTROL POINT
- DREDGING LIMIT TURNING POINT
- CHANNEL LINE TURNING POINT
- 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<br>CORPS OF ENGINEERS<br>DETROIT, MICHIGAN |                               |                |    |
| <b>DULUTH-SUPERIOR HARBOR</b><br>MINNESOTA-WISCONSIN                             |                               |                |    |
| CONDITION SURVEY - JUNE 2004   |                               |                |    |
| DESIGNED BY:*  | DULUTH AREA OFFICE DULUTH, MN |                |    |
| DRAWN BY:*   |                               |                |    |
| CHECKED BY:*   |                               |                |    |
| REVIEWED BY:*  |                               |                |    |
| SUBMITTED BY:*   | APPROVAL RECOMMENDED:*        |                |    |
| CHIEF, PROJ. OPNS. SEC.  | CHIEF, DTS BRANCH             | DATE           |    |
| APPROVED:*   |                               |                |    |
| CHIEF, CONS. OPNS. DIV.  | SCALE AS SHOWN 1" = 100'      |                |    |
| CADD FILE NAME ds25c04.dcn   |                               | DRAWING NUMBER |    |
| (* AS REQUIRED BY ENGINEERING CIRCULAR 1110-1-78)                                |                               | SHEET 1 OF 1   |    |

THIS PLAN ACCOMPANIES CONTRACT NO. MODIFICATION NO.

INVITATION NO. DACW DS7570/25-60