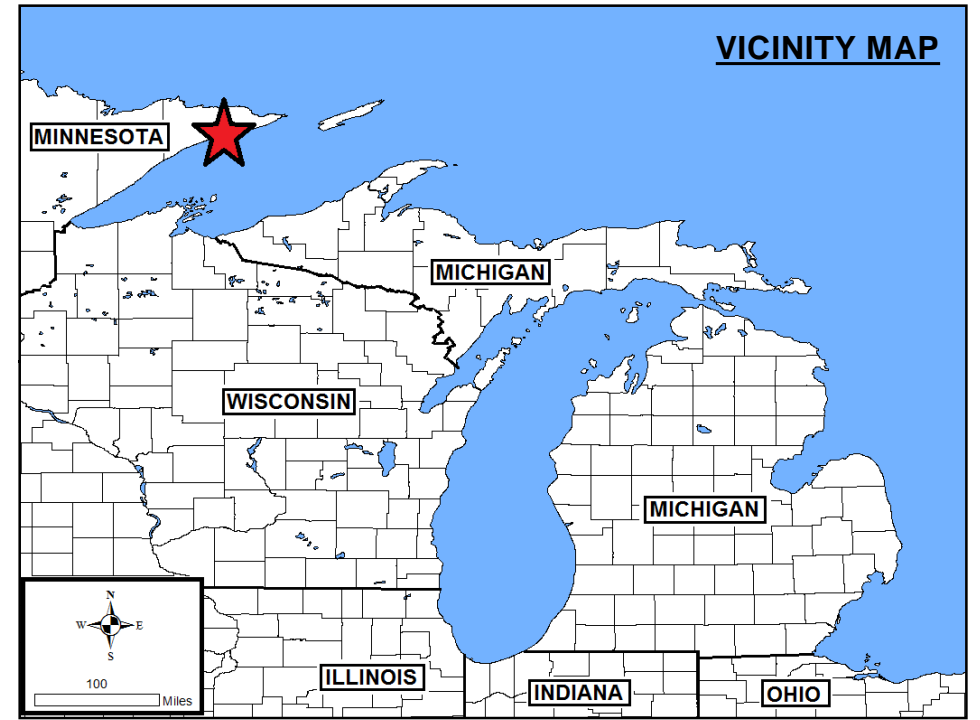
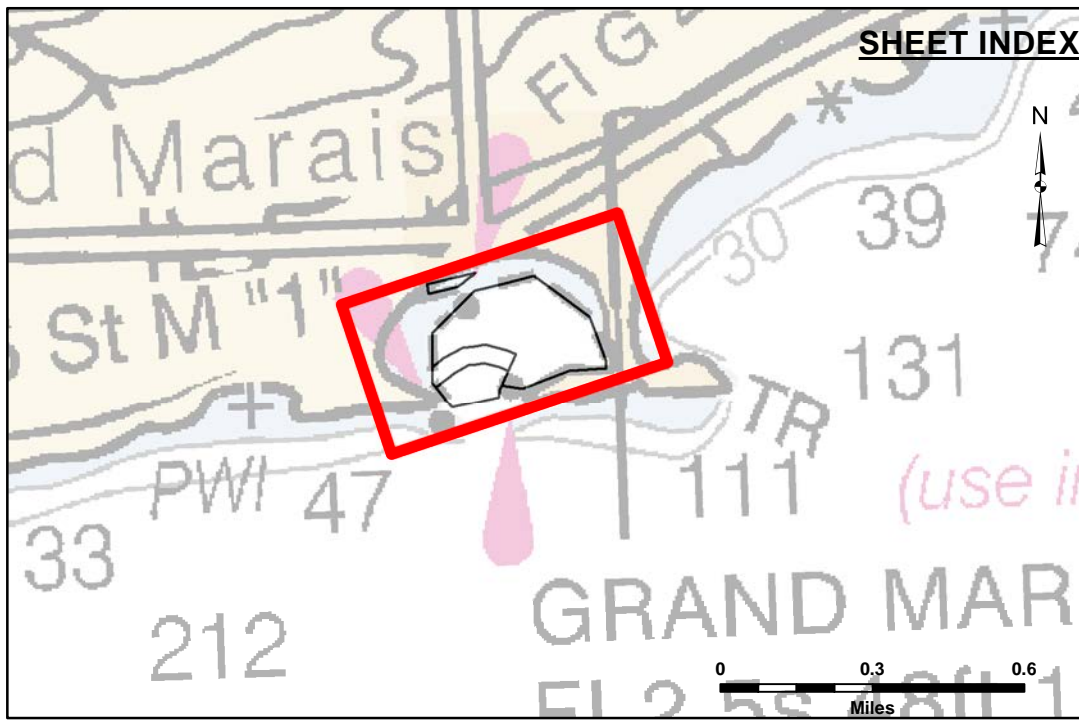


Disclaimer: The data represented by the symbols of data collection on this chart were collected for a specific US Army Corps of Engineers activity and are not intended for any other purpose. The user is responsible for the accuracy of the data for other than its intended purpose.

Access Constraints: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were provided. The recipient may not transfer these data to others without also transferring this disclaimer.

U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT		
Submitted:	Surveyed By:	
Recommended:	Plotted By:	
Approved:	Chief, Survey Section	Chief, Technical Services

GRAND MARAIS HARBOR, MN
Grand Marais Harbor
GD_01_MAS_20230921_CS
21 September 2023

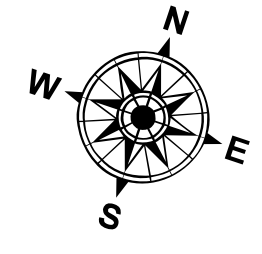


LEGEND

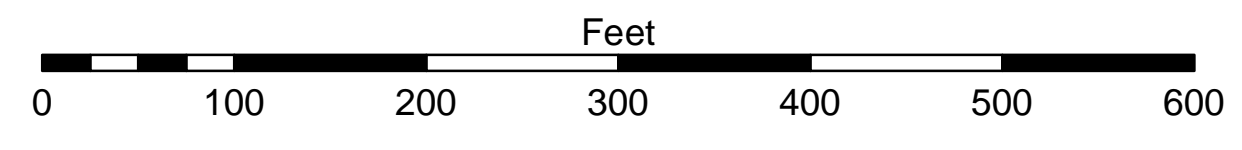
- Cable Submarine
- - - Cable Overhead
- Placement Area
- Contour Lines
- ▭ Channel Limits

SOUNDING LEGEND

- LESS THAN PROJECT DEPTH
- PROJECT DEPTH
- PROJECT DEPTH +1'
- PROJECT DEPTH +2'
- PROJECT DEPTH +3'
- PROJECT DEPTH +4'
- PROJECT DEPTH +5'



1 inch = 100 feet



- NOTES:**
- 1) THE INFORMATION DEPICTED ON THIS CHART REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THAT TIME.
 - 2) SOUNDING DEPTHS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85) LOW WATER DATUM ELEVATION 601.1 FEET ABOVE MEAN WATER LEVEL AT RIMOUSKI QUEBEC. WATER LEVEL READINGS WERE OBTAINED WITH RTK GPS VALUES THAT HAVE BEEN VERIFIED TO MATCH AN AUTOMATED NOAA GAGE LOCATED AT GRAND MARAIS, MINNESOTA (0909090). DEPTHS ARE MEASURED USING A ROSS LABORATORIES MODEL 825C PORTABLE SURVEY SOUNDER.
 - 3) HORIZONTAL POSITIONING IS DETERMINED USING REAL TIME KINEMATIC (RTK) GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) CORRECTIONS FROM A BASE STATION LOCATED AT USACE CONTROL POINT 614, A CHISELED 'X' ON THE EAST END OF A STEEL SHEET PILE WALL ALONG THE NORTH SIDE OF THE BOAT RAMP. THE GPS RECEIVER IS MANUFACTURED BY TRIMBLE, MODEL SP751 AND R10.
 - 4) THE GRID COORDINATE SYSTEM IS MINNESOTA STATE PLANE, NORTH ZONE (2201), NORTH AMERICAN DATUM 1983 (NAD83), US SURVEY FOOT.
 - 5) PROJECT DEPTHS FOR THIS AREA ARE 6', 16', 18' & 20'.

Sheet Reference Number
1 of 1