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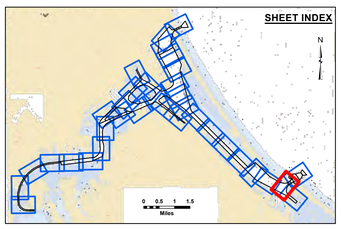
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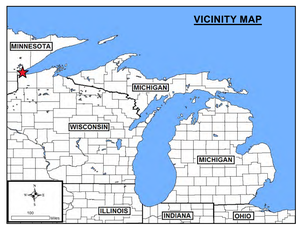
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46°0'0" N 92°59'50" W 46°0'0" N 93°0'0" W

SHEET INDEX



VICINITY MAP



LEGEND

- Cable Submarine
- Cable Overhead
- 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

Feet
0 100 200 300 400 500 600

NOTES:

1. THE CHARTED SOUNDINGS REPRESENT THE MINIMUM DEPTH MEASURED AT THE TIME OF THE SURVEY WITHIN THE 10' X 10' AREA CENTERED ON THE TEXT, DERIVED FROM A 1' X 1' AVERAGE DATASET AT CELL CENTER. THIS CHART SHOULD NOT BE USED FOR CHANNEL CLEARANCE OR VOLUME COMPUTATIONS. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICE TO NAVIGATION INTERESTS.

2. ALL 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 REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS) VALUES THAT HAVE BEEN VERIFIED TO MATCH AUTOMATED NOAA GAGE 9099064 LOCATED AT DULUTH, MINNESOTA. DEPTHS ARE MEASURED USING AN R2SONIC 2024 MULTIBEAM SONAR.

3. HORIZONTAL POSITIONING IS DETERMINED USING RTK GPS CORRECTIONS FROM A BASE STATION LOCATED AT US ARMY CORPS OF ENGINEERS (USACE) CONTROL POINT 100 "CHIMNEY" LOCATED ON THE WAREHOUSE CHIMNEY AT THE USACE VESSEL YARD, 901 MINNESOTA AVENUE, DULUTH, MN. THE GPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POS/MV VER. 4.0.

4. THE GRID SHOWN REFERENCES LATITUDE/LONGITUDE DISPLAYED AS DEGREES, MINUTES, SECONDS IN 10-SECOND INCRIMENTS. THE SURVEY DATA REPRESENTED HEREIN IS PROJECTED TO THE MINNESOTA STATE PLANE, NORTH ZONE (2201), NORTH AMERICAN DATUM 1983 (NAD83), US SURVEY FOOT.

5) AERIAL PHOTOGRAPHY DATA SOURCE: VANTOR, MICROSOFT

US Army Corps of Engineers
District: CELRE

REVISION HISTORY

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