519,000 518,000

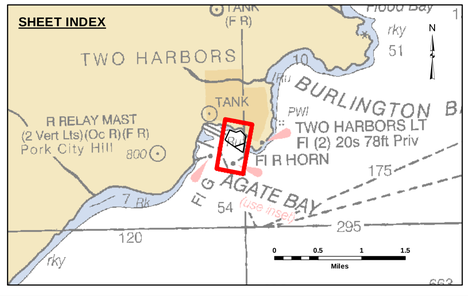
520,000 2,982,000 2,981,000

PROJECT DEPTH 30.0'

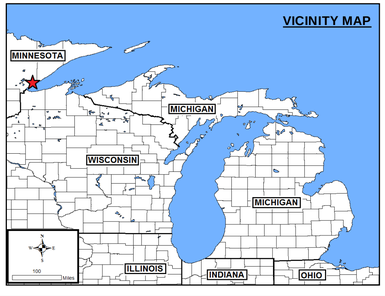
PROJECT DEPTH 28.0'

520,000 2,981,000 519,000 518,000

SHEET INDEX



VICINITY MAP



LEGEND

- Cable Submarine
- Cable Overhead
- Placement Area
- Beacon, General
- 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. DEPTHS ARE MEASURED USING AN R2SONIC 2024 MULTIBEAM SONAR.

3) HORIZONTAL POSITIONING IS DETERMINED USING REAL TIME KINEMATIC (RTK) GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) CORRECTIONS FROM A BASE STATION LOCATED AT US ARMY CORPS OF ENGINEERS (USACE) CONTROL POINT 300 "AGATE BAY ARGO" LOCATED APPROXIMATELY 250 FEET SOUTHEAST OF THE LIGHTHOUSE, TWO HARBORS, MN. THE GPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POS/MV VER. 4.0..

4) THE GRID COORDINATE SYSTEM IS MINNESOTA STATE PLANE, NORTH ZONE (4801), NORTH AMERICAN DATUM 1983 (NAD83), US SURVEY FOOT.

5) THE PROJECT DEPTHS FOR THIS AREA ARE 28.0' AND 30.0'.

US Army Corps of Engineers
District: CELRE

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DETROIT DISTRICT

Submitted:		Surveyed By:	
Recommended:	Chief, Survey Section	Plotted By:	
Approved:	Chief, Technical Services	Checked By:	

Two Harbors, MN
Two Harbors
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1 of 1

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