

26,149,000

26,150,000

26,151,000

641,000

641,000

PROJECT DEPTH = 27.0'

26,149,000

26,150,000

26,151,000

SHEET INDEX

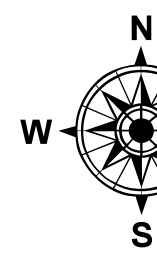
VICINITY MAP

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

0 100 200 300 400 500 600 Feet

## 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/SOAL REMOVAL OPERATIONS AND NOTICE TO NAVIGATION INSTRUMENTS.
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 FROM THE RIMOUSKI QUEBEC WATER LEVEL MEASURING SYSTEM (GPS) VALUES. DEPTHS ARE MEASURED USING AN R230NC 2024 MULTIBEAM SONAR.
3. HORIZONTAL POSITIONING IS DETERMINED USING RTK GPS CORRECTIONS FROM A BASE STATION. THE GPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POS/MV 4.0.
4. THE GRID COORDINATE SYSTEM IS MICHIGAN STATE PLANE, NORTH ZONE (2111), NORTH AMERICAN DATUM 1983 (NAD83), US SURVEY FOOT.
5. 2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS

Marquette, MI  
Marquette Harbor

MQ\_01\_MAR\_20221012\_CS

12 October 2022

Sheet  
Reference  
Number  
1 of 3Revision Number:  
4.2-300000120U.S. ARMY CORPS OF ENGINEERS  
DETROIT DISTRICTSubmitted:  
Recommended:  
Chief, Survey SectionApproved:  
Chief, Technical Services

Surveyed By:

Plotted By:

Checked By:

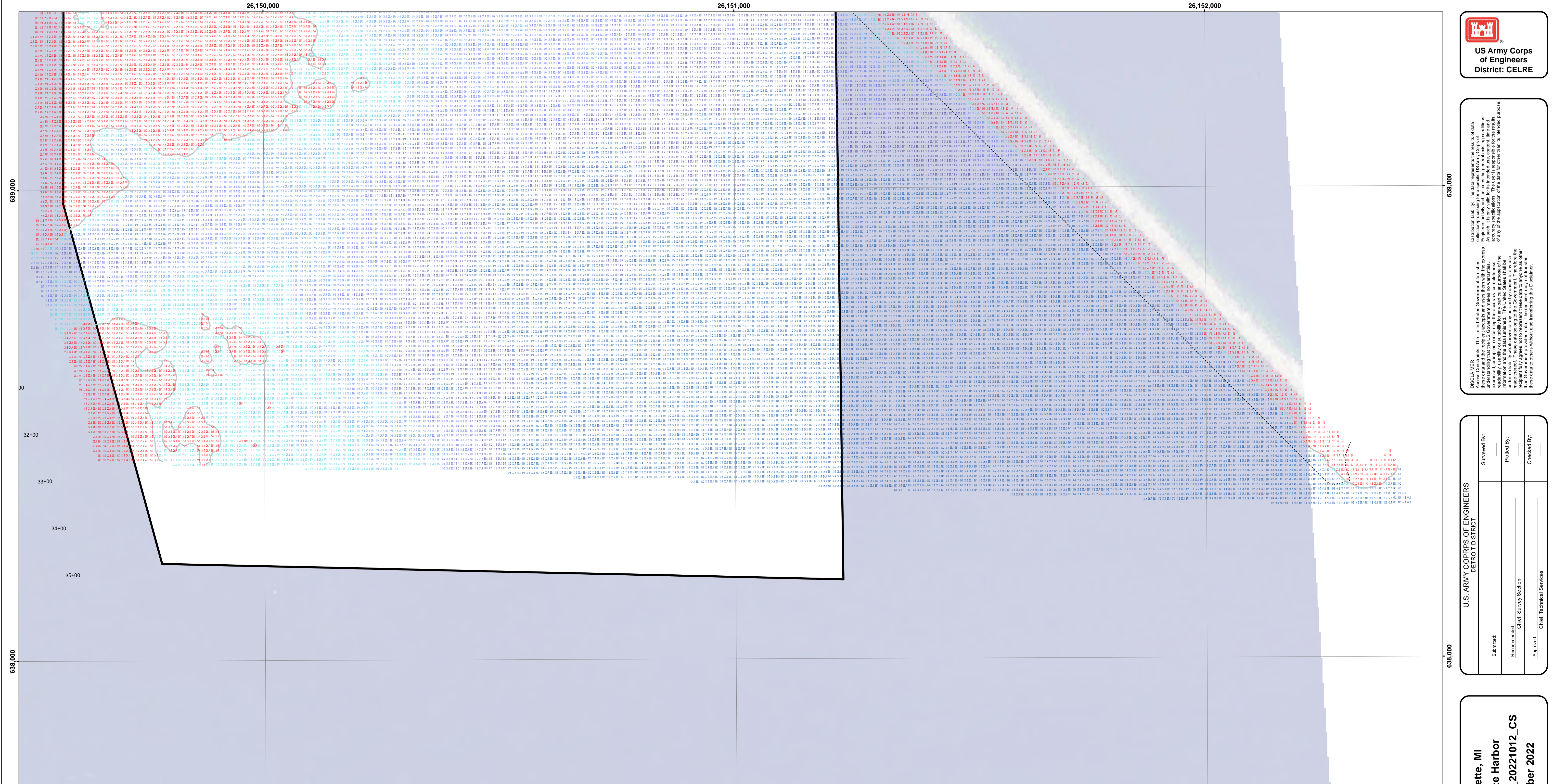
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US Army Corps of Engineers District: CELRE

DISCLAIMER: The Corps of Engineers is not responsible for the accuracy of the data. Engineers assume no liability for the use of the data for purposes other than those intended. The user is responsible for the results of any application of the data for other than its intended purpose.

Reviewed By: [Signature]  
Plotted By: [Signature]  
Checked By: [Signature]  
Submitted: [Signature]  
Recommended: [Signature]  
Approved: [Signature]

Marquette, MI  
Marquette Harbor  
MQ\_01\_MAR\_20221012\_CS  
12 October 2022  
Sheet Reference Number 3 of 3

Revision Number: 4.2 (3/20/2021)

- 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/SOAL REMOVAL OPERATIONS AND NOTICE TO NAVIGATION INSTRUMENTS.
  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, CANADA. WITH REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS) VALUES. DEPTHS ARE MEASURED USING AN R230C2A MULTIBEAM SONAR.
  3. HORIZONTAL POSITIONING IS DETERMINED USING RTK GPS CORRECTIONS FROM A BASE STATION. THE GPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POS/MV 4.0.
  4. THE GRID COORDINATE SYSTEM IS MICHIGAN STATE PLANE, NORTH ZONE (2111), NORTH AMERICAN DATUM 1983 (NAD83), US SURVEY FOOT.
  5. 2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS