



**Distribution Liability.** The data represents the results of data collection/processing for a specific US Army Corps of Engineers project and is not intended for general use. As such, it is only valid for its intended use, content, time and accuracy specifications. The user is responsible for the results of any of the application of the data for other than its intended purpose.

**DISCLAIMER** Access Constraints: The United States Government furnishes this information as is without making any warranties, expressed or implied concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be under no liability whatsoever to any person by reason of any use made hereof. These data belong to the Government. Therefore, neither the Government nor the Government provided data, the recipient may not transfer these data to others without also transferring this Disclaimer.

Surveyed By: \_\_\_\_\_  
 Plotted By: \_\_\_\_\_  
 Checked By: \_\_\_\_\_

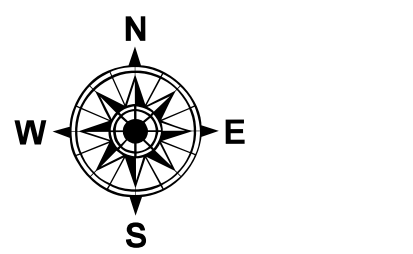
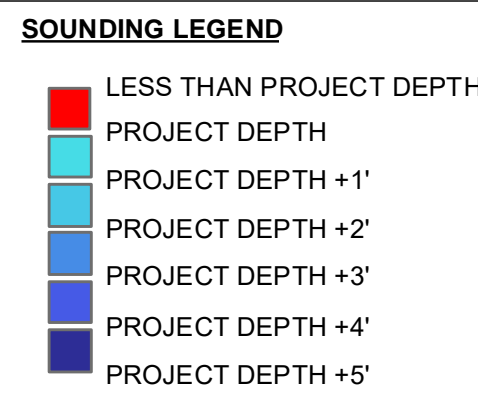
[illegible]

Submitted:	
Recommended:	
Approved:	

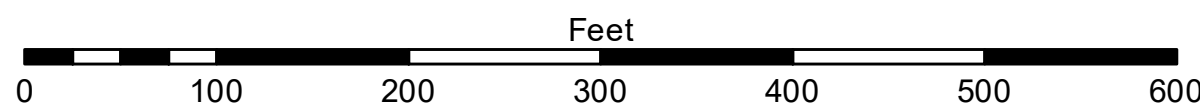
Marquette, MI  
Marquette Harbor  
MAR\_20230822\_CS  
22 August 2023

Sheet  
Reference  
Number  
1 of 3

Revision Number:  
4.2-20200420



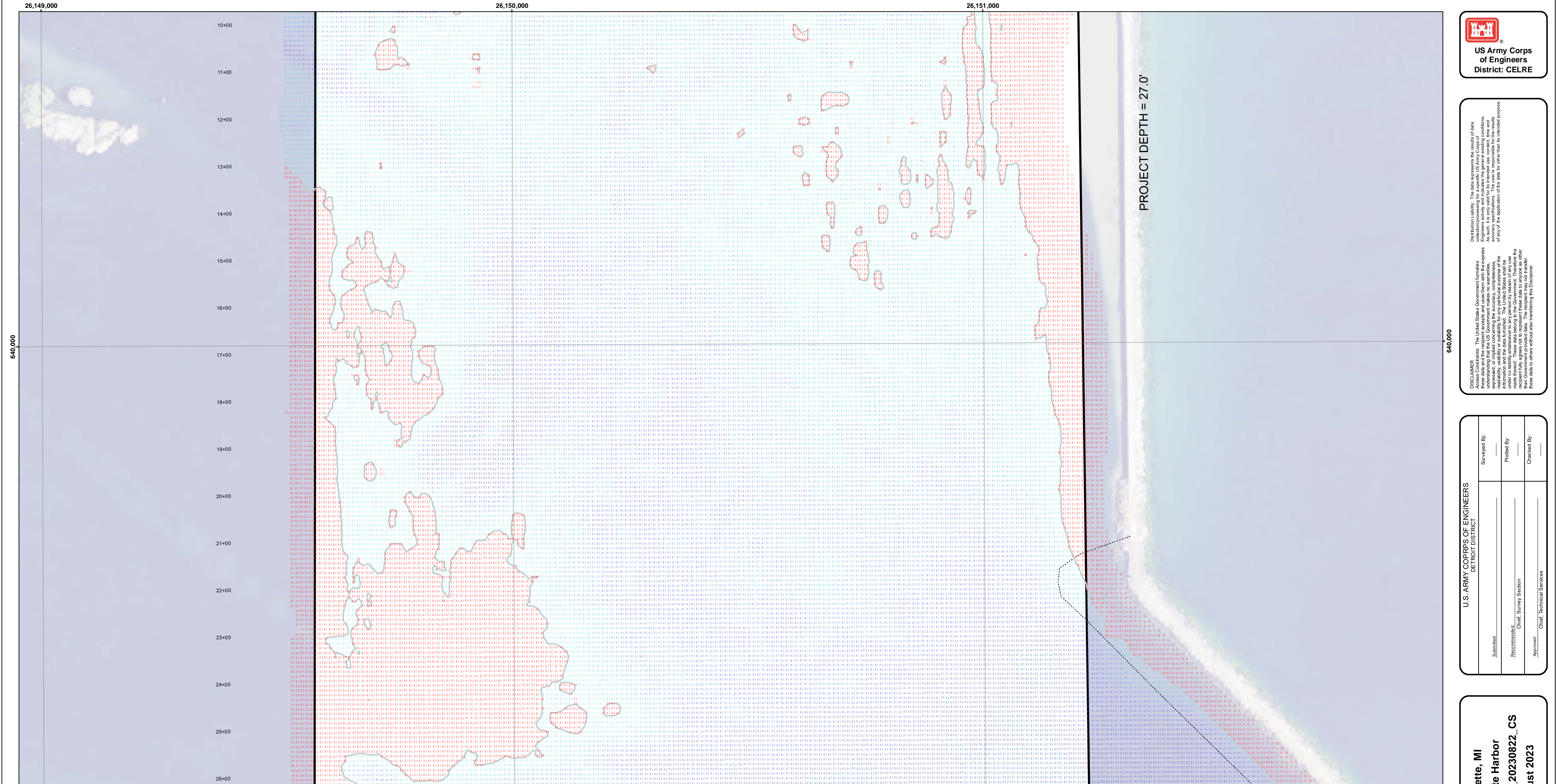
1 inch = 100 feet



**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 DATUM 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 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) GROUND POSITIONING SYSTEM (GPS) VALUES. DEPTHS ARE MEASURED USING AN RSONIC 2024 MULTIBEAM SONAR.
3. HORIZONTAL POSITIONING IS DETERMINED USING RTK GPS CORRECTIONS FROM A BASE STATION. THE GPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POSNAV V 4.0.
4. THE GRID COORDINATE SYSTEM IS MICHIGAN STATE PLANE, NORTH ZONE (2011), NORTH AMERICAN DATUM 1983 (NAD83), US SURVEY FOOT.
5. 2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS





**SHEET INDEX**

**VICINITY MAP**

**LEGEND**

- Cable Submarine
- Cable Headed
- 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 +6'

**Scale**

0 0.25 0.5 0.75 Miles

0 100 200 300 400 500 600 Feet

1 inch = 100 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/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 WITH REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING 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 POSMV-4R.
4. THE GRID COORDINATE SYSTEM IS MICHIGAN STATE PLANE, NORTH ZONE (211), NORTH AMERICAN DATUM 1983 (NAD83), US SURVEY FOOT.
5. 2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS

Marquette, MI

Marquette Harbor

MQ\_01\_MAR\_20230822\_CS

22 August 2023

Sheet Reference Number

2 of 3

Revision Number:

4.2-2006420

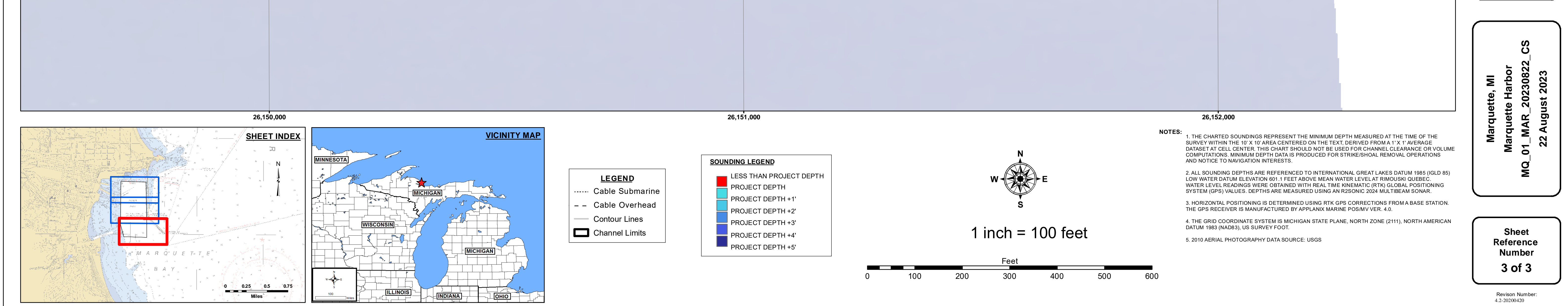
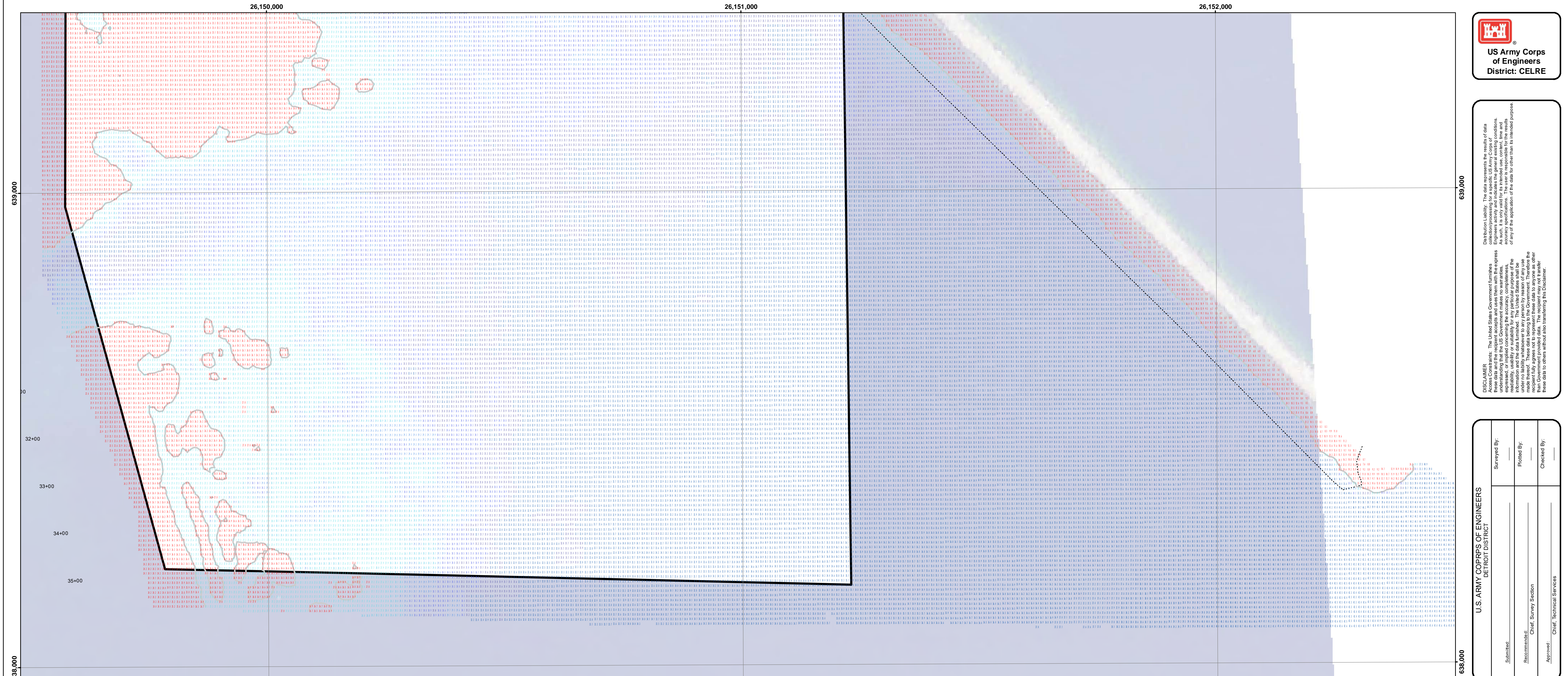
This data is classified "Unclassified" for public release. The data is the property of the U.S. Army Corps of Engineers and is loaned to the user. The user is responsible for the results of any application of the data for other than its intended purpose.


DISCLAIMER: The United States Government (USG) makes no warranty, express or implied, regarding the accuracy, completeness, or reliability of the data. The data is provided "as is" and the user assumes all liability for any use of the data. These data are not to be used for any purpose other than that for which they were provided. The USG is not responsible for any errors or omissions in this data.

Surveyed By: \_\_\_\_\_  
Plotted By: \_\_\_\_\_  
Sanitized: \_\_\_\_\_  
Recommended: \_\_\_\_\_  
Approved: \_\_\_\_\_  
Chief, Technical Services

U.S. ARMY CORPS OF ENGINEERS  
DETROIT DISTRICT







**US Army Corps of Engineers**  
District: CELRE

By publishing this chart, the Corps of Engineers certifies that the data collected and used in the chart are reliable and accurate. The Corps of Engineers is not responsible for the use of the data for purposes other than those intended.

By publishing this chart, the Corps of Engineers certifies that the data collected and used in the chart are reliable and accurate. The Corps of Engineers is not responsible for the use of the data for purposes other than those intended.

By publishing this chart, the Corps of Engineers certifies that the data collected and used in the chart are reliable and accurate. The Corps of Engineers is not responsible for the use of the data for purposes other than those intended.

By publishing this chart, the Corps of Engineers certifies that the data collected and used in the chart are reliable and accurate. The Corps of Engineers is not responsible for the use of the data for purposes other than those intended.

By publishing this chart, the Corps of Engineers certifies that the data collected and used in the chart are reliable and accurate. The Corps of Engineers is not responsible for the use of the data for purposes other than those intended.

By publishing this chart, the Corps of Engineers certifies that the data collected and used in the chart are reliable and accurate. The Corps of Engineers is not responsible for the use of the data for purposes other than those intended.

By publishing this chart, the Corps of Engineers certifies that the data collected and used in the chart are reliable and accurate. The Corps of Engineers is not responsible for the use of the data for purposes other than those intended.

By publishing this chart, the Corps of Engineers certifies that the data collected and used in the chart are reliable and accurate. The Corps of Engineers is not responsible for the use of the data for purposes other than those intended.

Marquette, MI

Marquette Harbor

MQ\_01\_MAR\_20230822\_CS

22 August 2023

Sheet Reference Number

3 of 3

Revision Number: 4.2-2006420