

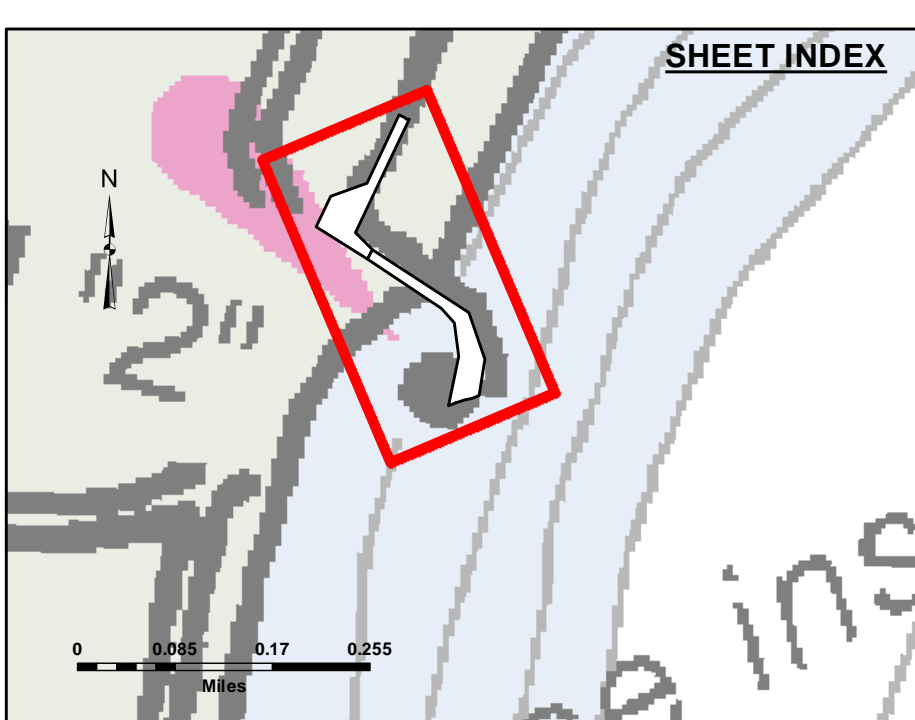


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U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT		
Submitted:	Surveyed By:	
Recommended:	Plotted By:	
Approved:	Chief, Survey Section	
	Chief, Technical Services	

Grand Traverse Bay Harbor, MI
Grand Traverse Bay Harbor
GR_01_TRV_20220525_CS
25 May 2022

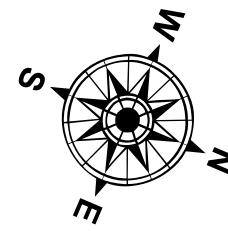
Sheet Reference Number
1 of 1



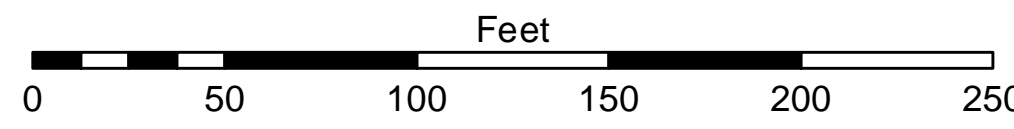
LEGEND
 — Contour Lines
 [Thick Black Line] Channel Limits

SOUNDING LEGEND

- [Red Box] LESS THAN PROJECT DEPTH
- [Light Blue Box] PROJECT DEPTH
- [Light Blue Box] PROJECT DEPTH +1'
- [Medium Blue Box] PROJECT DEPTH +2'
- [Dark Blue Box] PROJECT DEPTH +3'
- [Dark Blue Box] PROJECT DEPTH +4'
- [Darkest Blue Box] PROJECT DEPTH +5'



1 inch = 50 feet



NOTES:

- 1) THE INFORMATION DEPICTED ON THIS MAP 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 (IGLD85) LOW WATER DATUM ELEVATION 601.1 FEET ABOVE MEAN WATER LEVEL AT RIMOUSKI, QUEBEC. WATER LEVEL READINGS WERE OBTAINED WITH RTK GPS VALUES. DEPTHS ARE MEASURED USING A TELEDYNE ECHOTRAC E20 PORTABLE SURVEY SOUNDER.
- 3) HORIZONTAL POSITIONING IS DETERMINED USING THE REAL TIME KINEMATIC (RTK) GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS). CORRECTIONS ARE FROM A BASE STATION LOCATED AT USACE CONTROL POINT 1805. THE GPS RECEIVERS ARE MANUFACTURED BY TRIMBLE, MODELS SPS751 AND R10.
- 4) THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, NORTH ZONE (2111), NORTH AMERICAN DATUM 1983 (NAD 83), US SURVEY FOOT.
- 5) THE PROJECT DEPTHS FOR THIS AREA ARE 10.0' AND 12.0'.