



**US Army Corps  
of Engineers®**

DETROIT DISTRICT

ATTN: CELRE-DE  
477 MICHIGAN AVENUE  
DETROIT MI 48226-2575  
[HTTP://WWW.LRE.USACE.ARMY.MIL/](http://www.lre.usace.army.mil/)

**NOTICE TO NAVIGATION INTERESTS**

**DATE:** 04/11/2023

**POC:** Elizabeth  
Wilkinson  
(616)240-7989

**NOTICE NUMBER:** 202494

**LOCAL NUMBER:** L23-09  
**WATERWAY:** HOLLAND HARBOR

**EFFECTIVE:** 04/11/2023 13:00 thru Until  
Further Notice

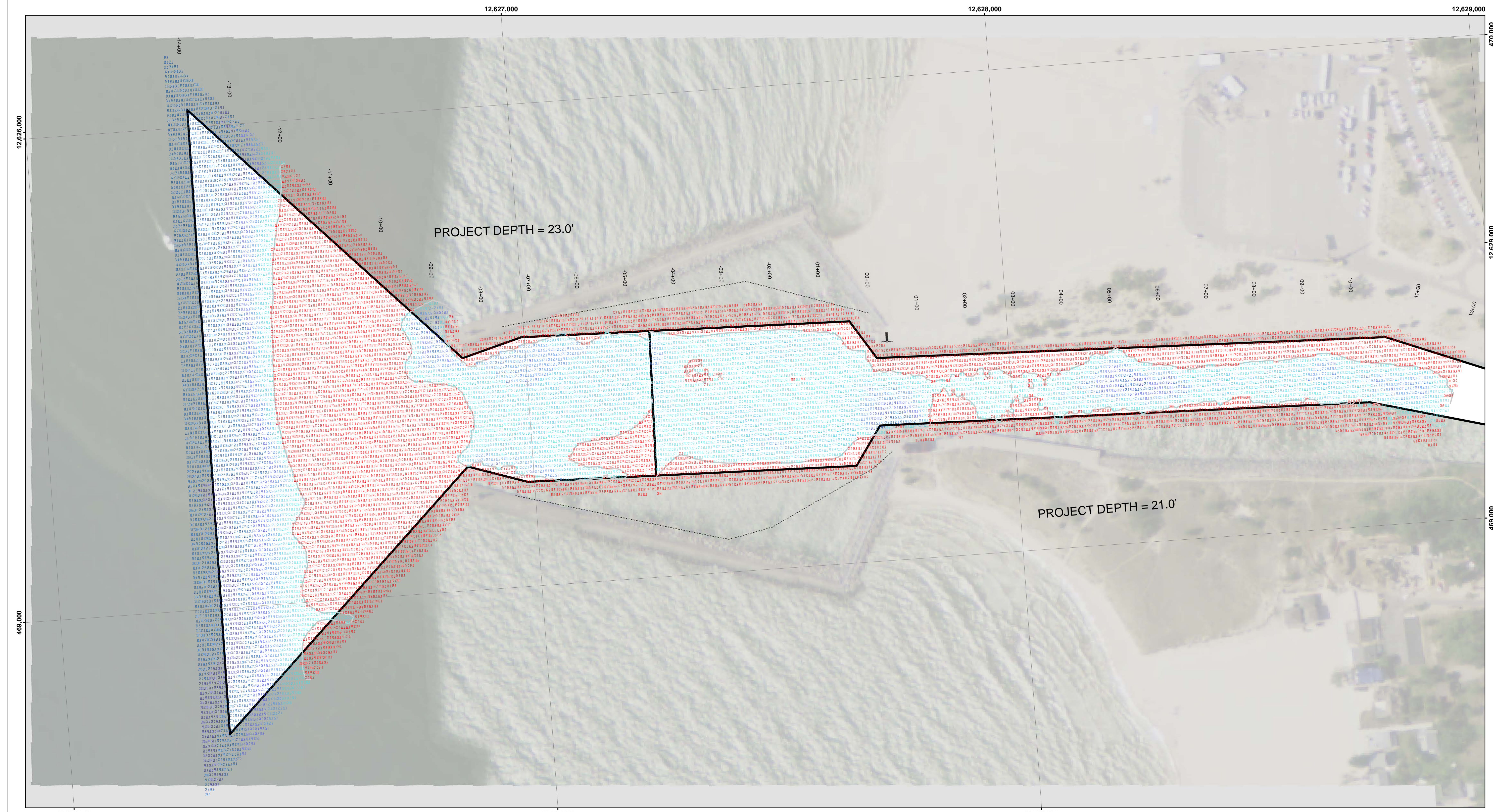
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**REPORTED SHOALING – HOLLAND HARBOR, MI**

1. Recent project condition surveys at Holland Harbor, MI, indicate shoaling in the navigation channel.
2. Shoaling is present at the entrance of the channel throughout project stationing -12+00 to -8+50 with depths ranging from 0 to 9.9 feet above project depth. Project depth for the outer navigation channel is authorized to 23.0' below International Great Lakes Datum (IGLD85), Low Water Datum (LWD). Additional shoaling is present throughout project stationing 01+00 to 12+00 with depths ranging from 0 to 3.9 feet above project depth within the channel limits. Project depth for this reach of navigational channel is authorized to 21.0' below International Great Lakes Datum (IGLD85), Low Water Datum (LWD).
3. The most recent project condition survey is attached to this notice.
4. Questions regarding this notice may be directed to the Grand Haven Resident Engineer, Elizabeth Wilkinson at (616)240-7989. Our internet address is: <https://www.lre.usace.army.mil.Missions/Operations/>

//signed//

CYNTHIA A. JAREMA  
Chief, Operations & Maintenance Branch  
USACE-Detroit



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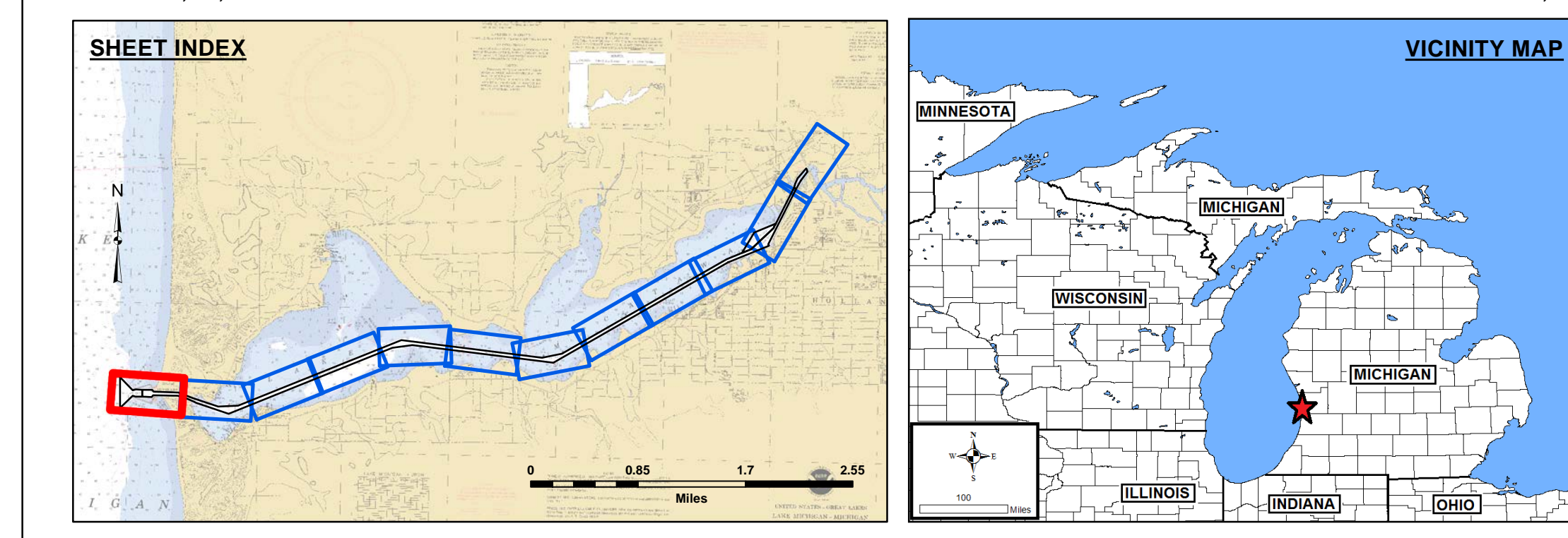
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Submitted:	Surveyed By:
Recommended:	Plotted By:
Approved:	Checked By:

U.S. ARMY CORPS OF ENGINEERS  
DETROIT DISTRICT

Holland Harbor, MI  
Holland Harbor  
HO\_01\_LND\_20230404\_BD  
04 April 2023

Chief, Survey Station  
Chief, Technical Services

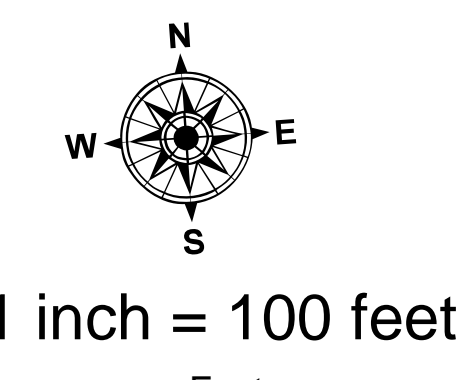


**LEGEND**

- ..... 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'



**NOTES:**

1. THE SOUNDINGS INDICATED HEREON ARE GENERALIZED DEPTHS AND ARE NOT REPRESENTATIVE OF THE FULL DATASET. THE SOUNDINGS REPRESENT THE MINIMUM DEPTH FOUND WITHIN THE 10 FOOT BY 10 FOOT AREA CENTERED ON THE TEXT, DERIVED FROM A 1 FOOT BY 1 FOOT AVERAGE DATASET AT CELL CENTER. THIS MAP SHOULD NOT BE USED FOR CHANNEL CLEARANCE OR VOLUME COMPUTATIONS. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.
2. GRIDS SHOWN ARE BASED ON THE NATIONAL GEODETIC SURVEY PROJECTION TABLES, STATE OF MICHIGAN, SOUTH ZONE (2113), LAMBERT PROJECTION, 1983 NORTH AMERICAN DATUM, US SURVEY FOOT.
3. ALL SOUNDINGS ARE REFERENCED TO I.G.L.D. FOR LAKE MICHIGAN, ELEVATION 577.5 FT. ABOVE MEAN SEA LEVEL AT RIMOUSKI, QUEBEC.
4. VERTICAL WATER LEVEL READINGS WERE TAKEN FROM THE NOAA GAGE HOUSE LOCATED ON THE NORTH SIDE OF THE CHANNEL NEAR CROSS SECTION 1+00E IN HOLLAND HARBOR, MI.
5. PROJECT DEPTH = 23.0-21.0 FEET
6. POSITIONING: APPLANIX POS MVV CORRECTIONS: MARINESTAR GNSS G2+ SONAR: RZSONIC 2024 MULTIBEAM ECHOSOUNDER SOFTWARE: HYPACK 2021 VESSEL: LAUNCH 3058

2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS  
\*\* SHALTEST SOUNDING PER QUARTER PER REACH.

Sheet Reference Number  
1 of 12