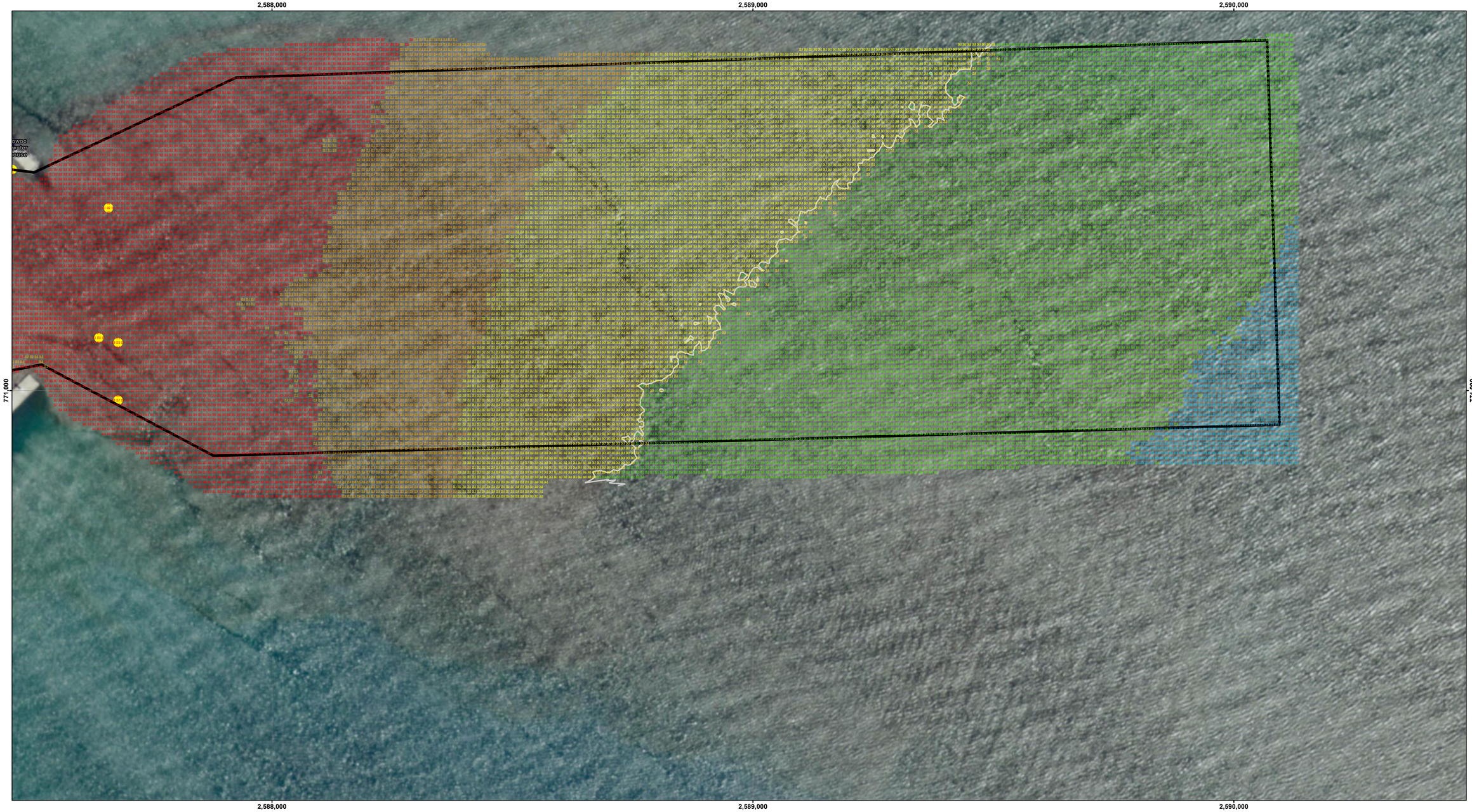
2,588,000 2,589,000 2,590,000

771,000



2,588,000 2,589,000 2,590,000

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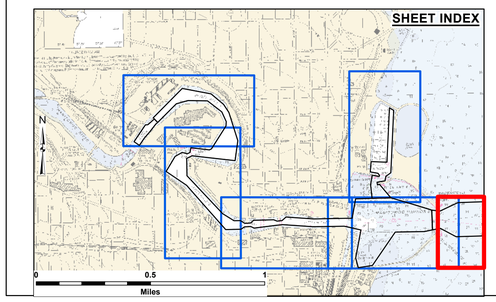

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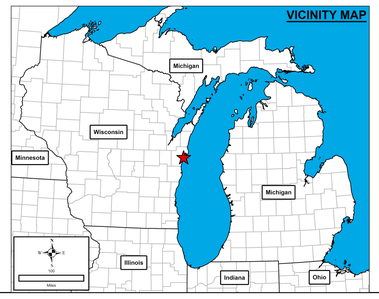

LEGEND

- Federal Navigation Channel
- Cable Submarine
- Cable Overhead
- Placement Area
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

- 4+ Feet Above Authorized Channel Depth
- 2-4 Feet Above Authorized Channel Depth
- 0-2 Feet Above Authorized Channel Depth
- 0-2 Feet Below Authorized Channel Depth
- 2-4 Feet Below Authorized Channel Depth
- 4+ Feet Below Authorized Channel Depth

UNLESS OTHERWISE NOTED PROJECT DEPTH IS:
25.0' APPROACH CHANNEL
23.0' OUTER HARBOR
23.0 LOWER RIVER CHANNEL
22.0' UPPER RIVER CHANNEL
21.0' SOUTH OUTER HARBOR
18.0' UPPER EXTENSION CHANNEL
12.0' ENTRANCE CHANNEL SBH
10.0' ACCESS CHANNEL SBH
DEPTH BELOW LOW WATER DATUM (LWD)

N
W E
S

0 50 100 200 300
Feet

NOTES: THE SURVEY SHOWN WAS CONDUCTED BY THE CHICAGO DISTRICT LAKE MICHIGAN PROJECT OFFICE, APPLETON SUB OFFICE SURVEY PARTY USING A R2SONIC 2026 MULTIBEAM ECHOSOUNDER, AN I2NS TYPE I WITH RTK CORRECTIONS FOR MOTION COMPENSATION AND POSITIONING, HYPACK 2022, AND SURVEY VESSEL LAUNCH 3059.

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Mapping: Geospatial Section, Chicago District
Reviewed by: Kevin Kwasny, Lake Michigan Project Office
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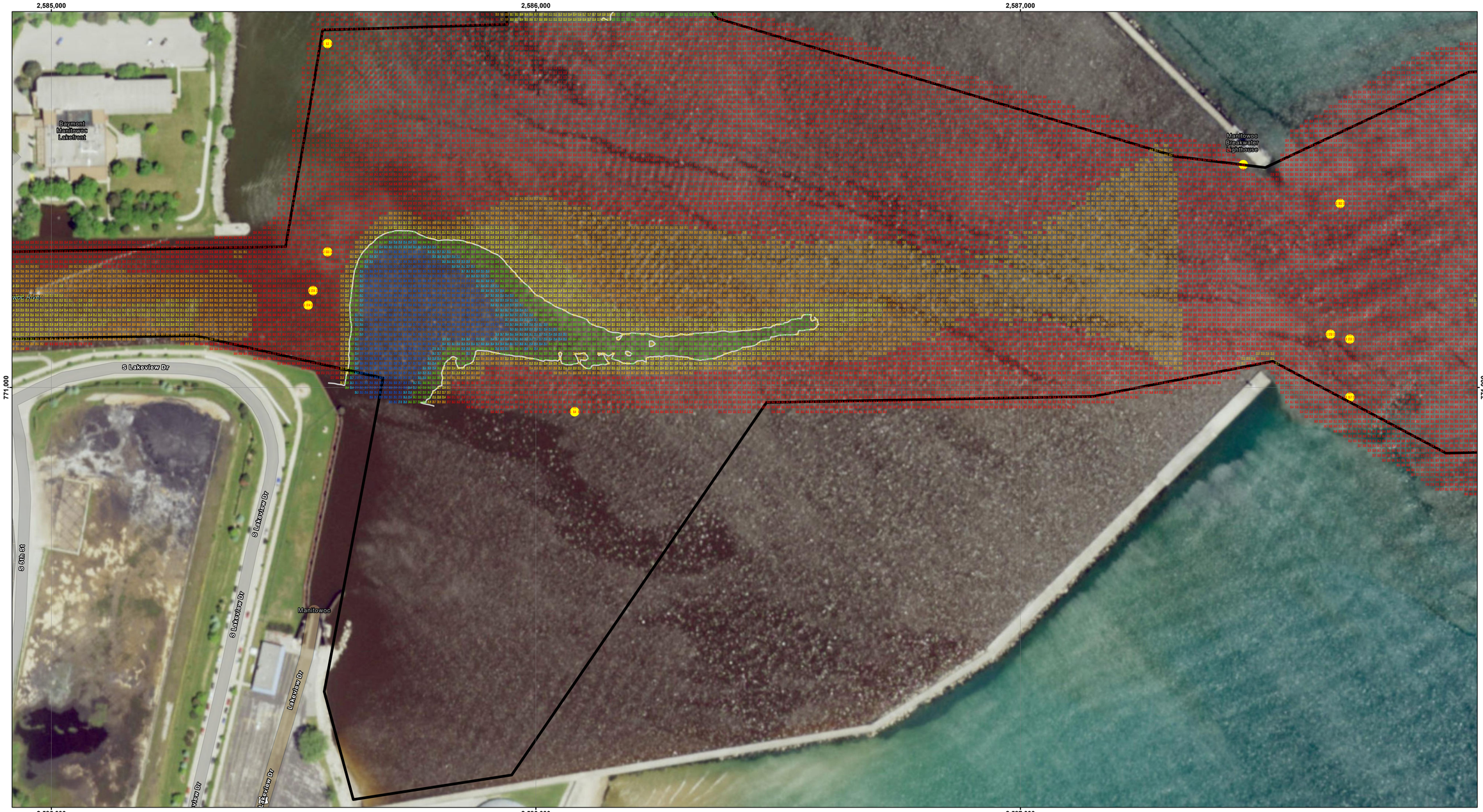
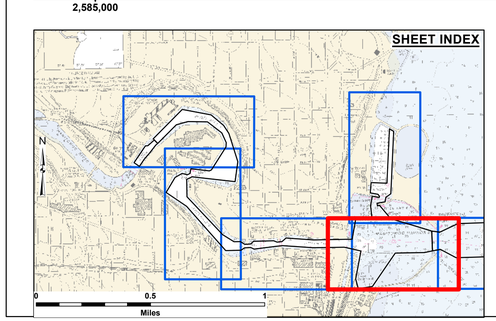
U.S. ARMY ENGINEER CORPS OF ENGINEERS CHICAGO, ILLINOIS

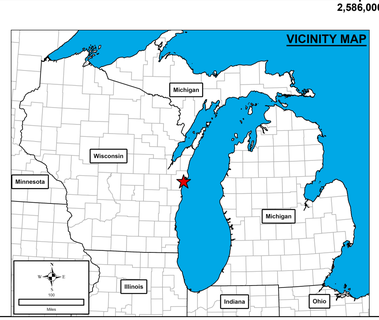
MANITOWOC HARBOR
MN_01_TOW_20260407_CS_10
07 April 2026

Sheet Reference Number
1 of 6

Revision Number:
5.25.11.05-5.25.11.05







LEGEND

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- Cable Submarine
- Cable Overhead
- Placement Area
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- Shoaling Area
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12.0' ENTRANCE CHANNEL SBH
10.0' ACCESS CHANNEL SBH
DEPTH BELOW LOW WATER DATUM (LWD)

N
W E
S
0 50 100 200 300
Feet

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Mapping:	Geospatial Section, Chicago District
Reviewed by:	Kevin Kwasny, Lake Michigan Project Office
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U.S. ARMY ENGINEER CORPS OF ENGINEERS CHICAGO, ILLINOIS

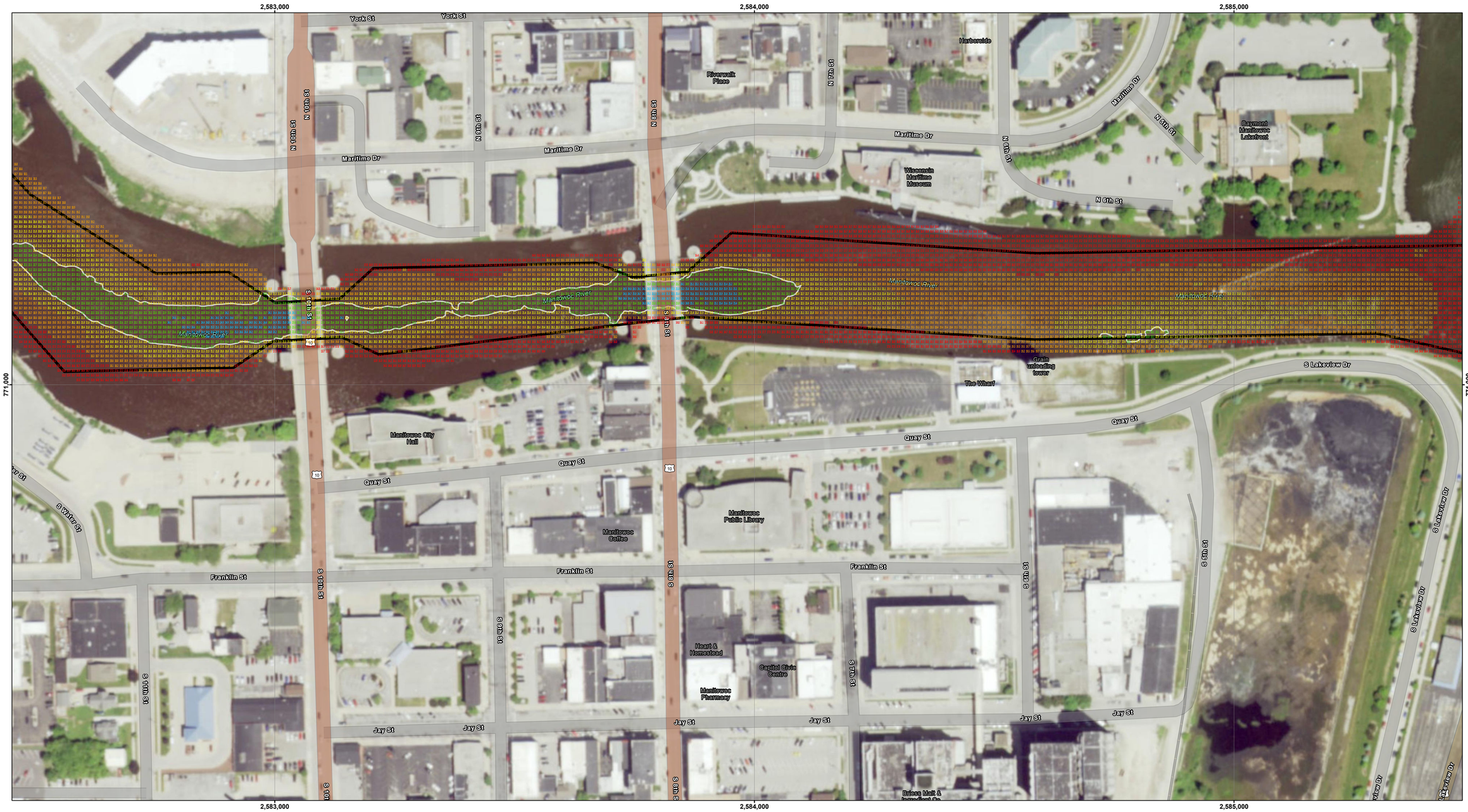
MANITOWOC HARBOR

MN_01_TOW_20260407_CS_10

07 April 2026

Sheet Reference Number
2 of 6

Revision Number:
5.25.11.05-5.25.11.05



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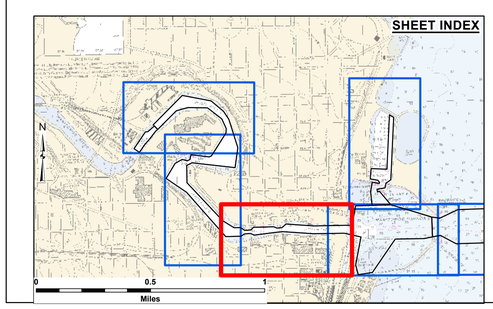

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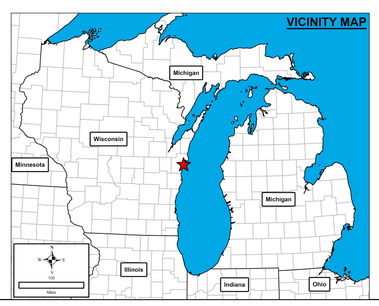

LEGEND

- Federal Navigation Channel
- Cable Submarine
- Cable Overhead
- Placement Area
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding
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- Green Navigation Buoy

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21.0' SOUTH OUTER HARBOR
18.0' UPPER EXTENSION CHANNEL
12.0' ENTRANCE CHANNEL SBH
10.0' ACCESS CHANNEL SBH
DEPTH BELOW LOW WATER DATUM (LWD)

N W E S

0 50 100 200 300
Feet

NOTES: THE SURVEY SHOWN WAS CONDUCTED BY THE CHICAGO DISTRICT LAKE MICHIGAN PROJECT OFFICE, APPLETON SUB OFFICE SURVEY PARTY USING A R2SONIC 2026 MULTIBEAM ECHOSOUNDER, AN I2NS TYPE I WITH RTK CORRECTIONS FOR MOTION COMPENSATION AND POSITIONING, HYPACK 2022, AND SURVEY VESSEL LAUNCH 3059.

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Mapping:	Geospatial Section, Chicago District
Reviewed by:	Kevin Kwasny, Lake Michigan Project Office
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U.S. ARMY ENGINEER CORPS OF ENGINEERS CHICAGO, ILLINOIS

MANITOWOC HARBOR

MN_01_TOW_20260407_CS_10

07 April 2026

Sheet Reference Number
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Revision Number:
5.25.11.05-5.25.11.05



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U.S. ARMY ENGINEER
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

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Mapping: Geospatial Section, Chicago District
Reviewed by: Kevin Kwasny, Lake Michigan Project Office
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MANITOWOC HARBOR
MN_01_TOW_20260407_CS_10
07 April 2026

Sheet Reference Number
4 of 6

Revision Number:
5.25.11.05-5.25.11.05

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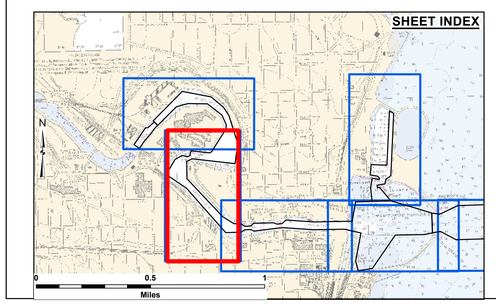

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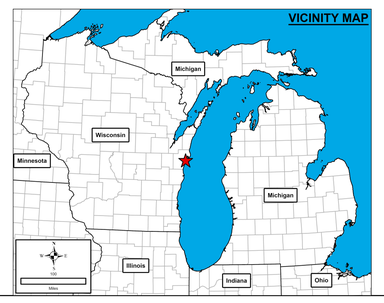

LEGEND

- Federal Navigation Channel
- Cable Submarine
- Cable Overhead
- Placement Area
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

- 4+ Feet Above Authorized Channel Depth
- 2-4 Feet Above Authorized Channel Depth
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UNLESS OTHERWISE NOTED PROJECT DEPTH IS:
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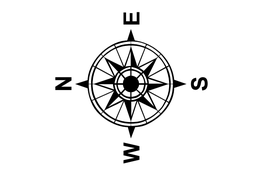
10.0' ACCESS CHANNEL SBH
DEPTH BELOW LOW WATER DATUM (LWD)



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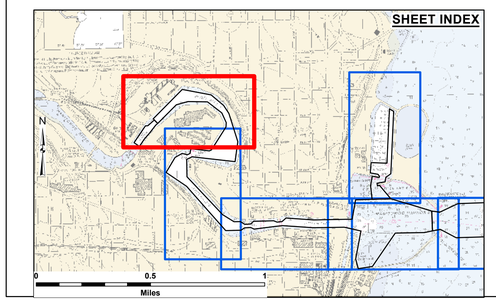

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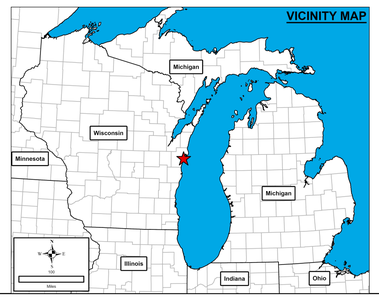

LEGEND

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DEPTH BELOW LOW WATER DATUM (LWD)

N W E S

0 50 100 200 300
Feet

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Mapping: Geospatial Section, Chicago District
Reviewed by: Kevin Kwasny, Lake Michigan Project Office
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U.S. ARMY ENGINEER CORPS OF ENGINEERS CHICAGO, ILLINOIS

MANITOWOC HARBOR
MN_01_TOW_20260407_CS_10
07 April 2026

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Reviewed by: Kevin Kwasny, Lake Michigan Project Office
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U.S. ARMY ENGINEER CORPS OF ENGINEERS CHICAGO, ILLINOIS

MANITOWOC HARBOR

MN_01_TOW_20260407_CS_10

07 April 2026

Sheet Reference Number
6 of 6

Revision Number:
5.25.11.05-5.25.11.05

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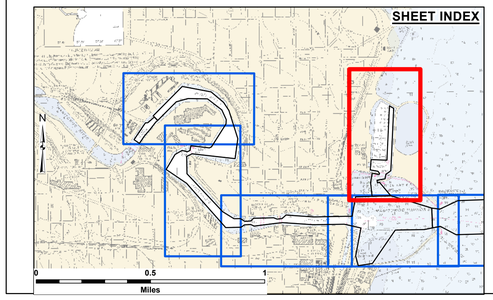
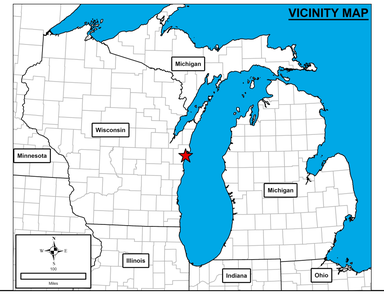


VICINITY MAP



LEGEND

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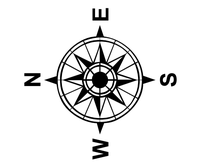
- 0-2 Feet Below Authorized Channel Depth
- 2-4 Feet Below Authorized Channel Depth
- 4+ Feet Below Authorized Channel Depth

UNLESS OTHERWISE NOTED PROJECT DEPTH IS:
25.0' APPROACH CHANNEL
23.0' OUTER HARBOR
23.0 LOWER RIVER CHANNEL
22.0' UPPER RIVER CHANNEL
21.0' SOUTH OUTER HARBOR
18.0' UPPER EXTENSION CHANNEL
12.0' ENTRANCE CHANNEL SBH
10.0' ACCESS CHANNEL SBH
DEPTH BELOW LOW WATER DATUM (LWD)



0 50 100 200 300
Feet

NOTES:

THE SURVEY SHOWN WAS CONDUCTED BY THE CHICAGO DISTRICT LAKE MICHIGAN PROJECT OFFICE, APPLETON SUB OFFICE SURVEY PARTY USING A R2SONIC 2026 MULTIBEAM ECHOSOUNDER, AN I2NS TYPE I WITH RTK CORRECTIONS FOR MOTION COMPENSATION AND POSITIONING, HYPACK 2022, AND SURVEY VESSEL LAUNCH 3059.

THE SOUNDINGS AND ASSOCIATED INFORMATION REPRESENTED HEREIN ARE THE RESULT OF SURVEYS MADE ON THE DATE AS INDICATED AND CAN ONLY BE CONSIDERED REPRESENTATIVE OF THE GENERAL CONDITIONS EXISTING AT THE TIME OF SURVEY.

THE COORDINATE GRID SYSTEM SHOWN IS REFERENCED TO THE WISCONSIN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJCTION, SOUTH ZONE 4803, NORTH AMERICAN DATUM 1983 (NAD83), US SURVEY FOOT.

ALL SOUNDINGS ARE IN FEET AND ARE REFERANCED TO LOW WATER DATUM ELEVATION 577.5 FEET ABOVE MEAN WATER LEVEL AT RIMOUSKI, QUEBEC (INTERNATIONAL GREAT LAKES DATUM 1985)

WATER LEVEL WAS DETERMINED USING RTK CORRECTIONS FROM WISCORS.

SURVEY CONTROL AND BENCH MARK DATA IS AVAILABLE FROM CHICAGO DISTRICT, GEOSPATIAL SECTION.