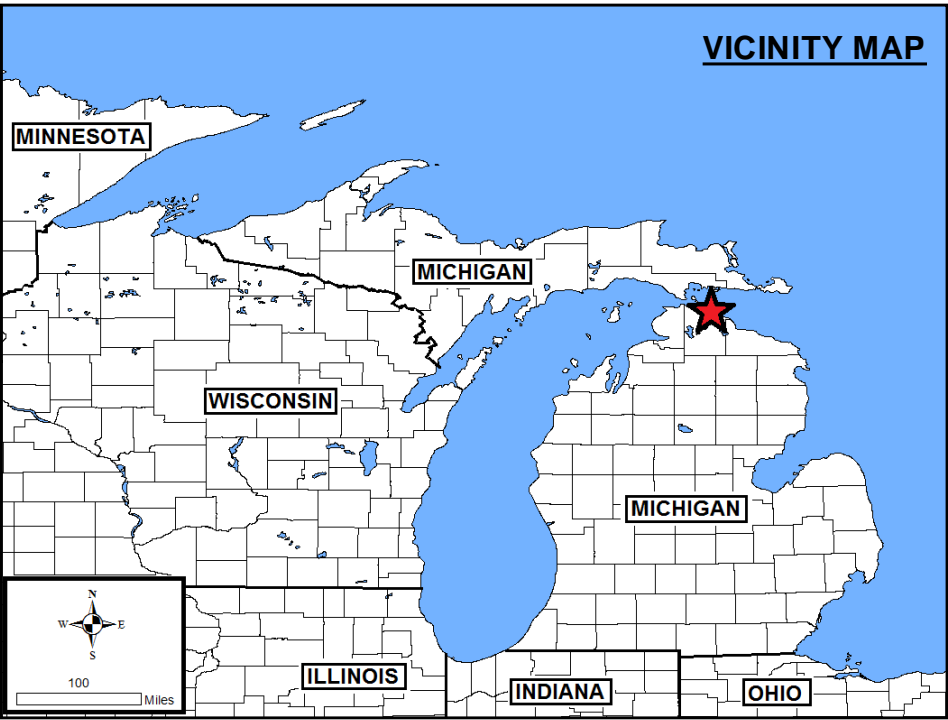
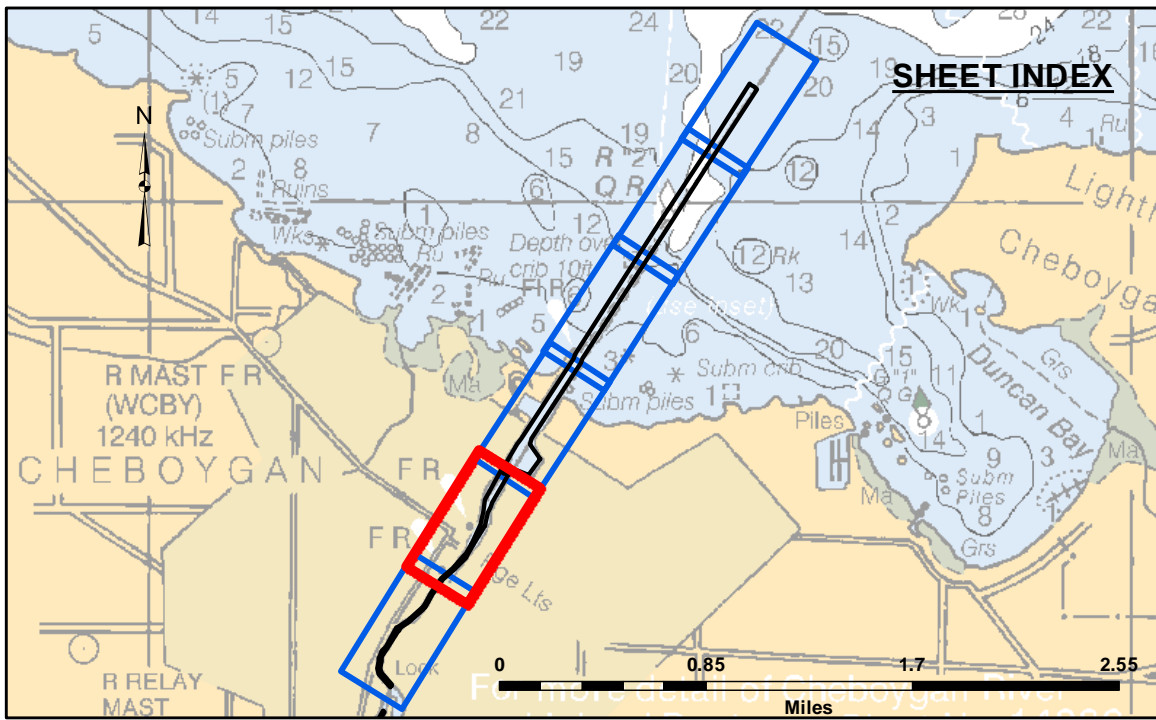
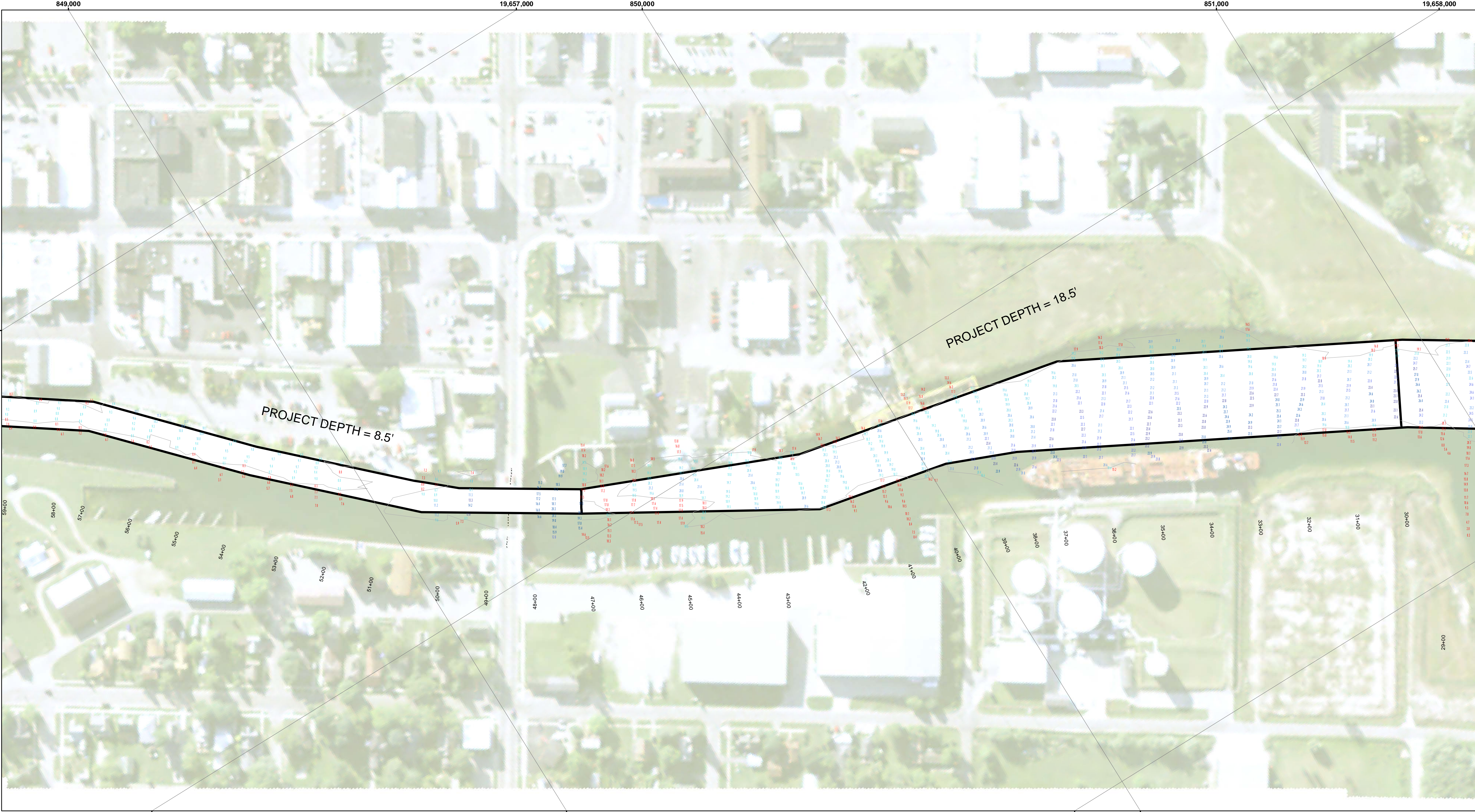


NOTES:

- 1) 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.
- 2) THE SOUNDINGS DEPICTED HEREIN ARE EXPRESSED IN U.S. SURVEY FEET AND TENTHS THEREOF AND ARE REFERENCED TO THE FOLLOWING DATUMS:
HORIZONTAL: MICHIGAN STATE PLANE COORDINATE SYSTEM
MICHIGAN CENTRAL ZONE #2112, NORTH AMERICAN DATUM (NAD) OF 1983.
VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985.
- 3) THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL LAUNCH 3053 EMPLOYING THE FOLLOWING COMPONENTS:
POSITIONING: APPLANIX POS-MV4/WARNESNET GPS CORRECTIONS.
MOTION COMPENSATION: APPLANIX POS-MV4.
SONAR: ODOM CV-300 (SINGLEBEAM TRANSDUCER)
SOFTWARE: HYPACK 2018
- 4) WATER LEVEL ELEVATIONS WERE OBTAINED FROM TBM STEEL CORNER WHICH WAS ESTABLISHED FROM NGS VERTICAL CONTROL POINT BM RANGE (PID K00021).
- 5) THE EDITED SINGLEBEAM DATA WAS SORTED INTO A 10 FT. DATA SET WITH THE RESULTING POINTS POSTED.

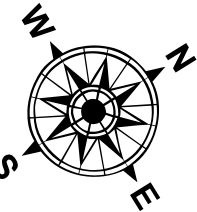


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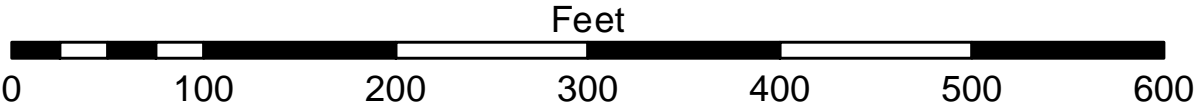
- Cable Submarine
- - - Cable Overhead
- ⊥ Beacon, General
- ▭ Channel Limits
- Contour Lines

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



- NOTES:**
- 1) 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.
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VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985.
 - 3) THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL LAUNCH 3053 EMPLOYING THE FOLLOWING COMPONENTS:
POSITIONING: APPLANIX POS-MV4 WIMARINESTAR GPS CORRECTIONS.
MOTION COMPENSATION: APPLANIX POS-MV4
SONAR: ODOM CV-300 (SINGLEBEAM TRANSDUCER)
SOFTWARE: HYPACK 2018
 - 4) WATER LEVEL ELEVATIONS WERE OBTAINED FROM TBM STEEL CORNER WHICH WAS ESTABLISHED FROM NGS VERTICAL CONTROL POINT BM RANGE (PID QK0021).
 - 5) THE EDITED SINGLEBEAM DATA WAS SORTED INTO A 10 FT. DATA SET WITH THE RESULTING POINTS POSTED.

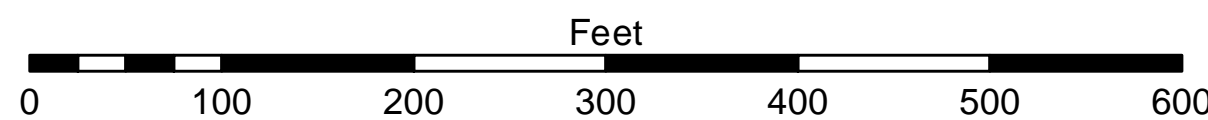
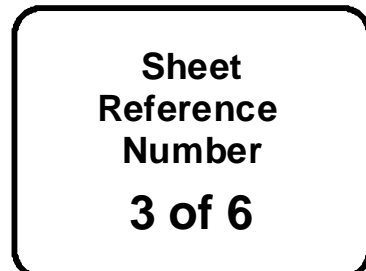
CHEBOYGAN HARBOR, MI
Cheboygan Harbor
CH_01_BOY_20210818_CS
18 August 2021

Sheet
Reference
Number
2 of 6

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

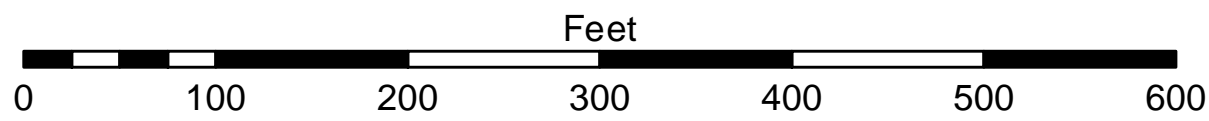
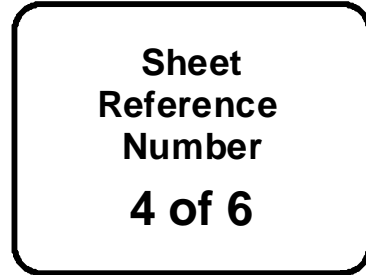
DISCLAIMER: The data represents the results of data collection and is not intended for use in any other manner than that for which it was collected. The user is responsible for the results of any application of the data for other than its intended purpose. The data is not intended for use in any other manner than that for which it was collected. The user is responsible for the results of any application of the data for other than its intended purpose.





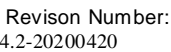
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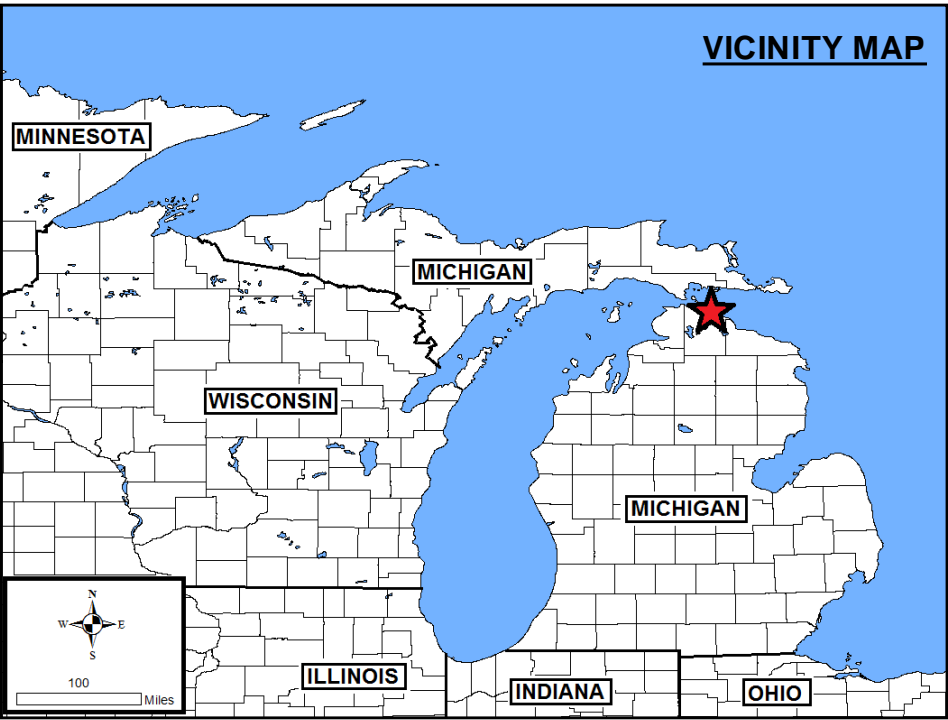
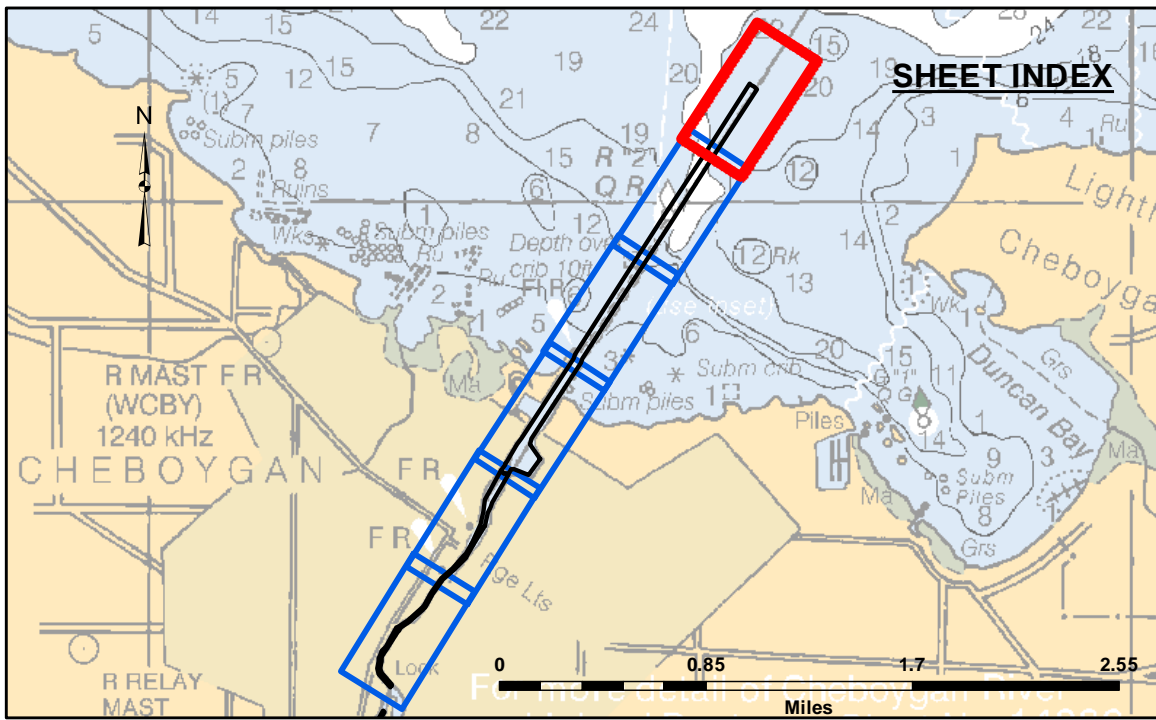
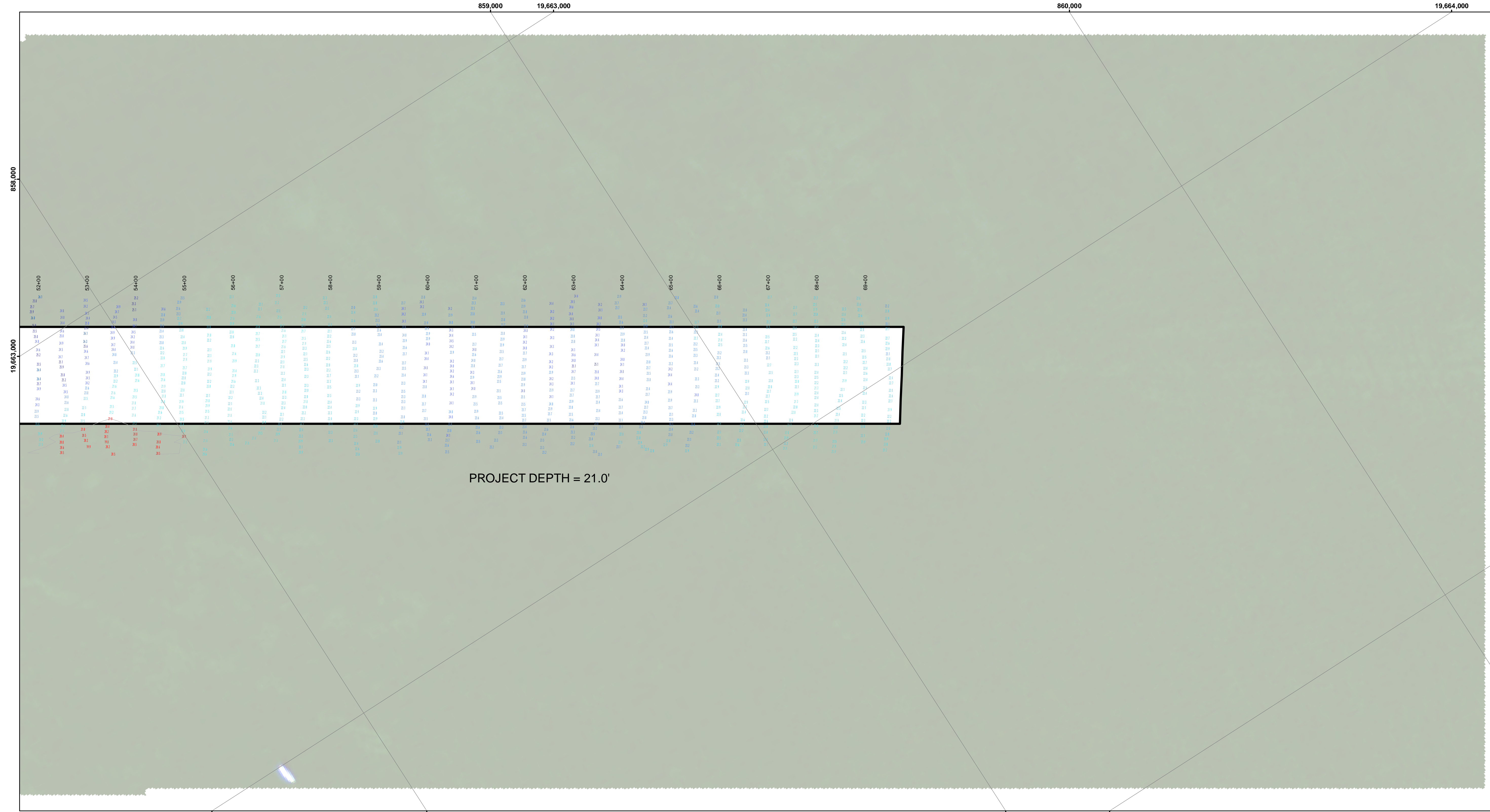
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NAD 83
MONTREAL - MICHIGAN GREAT LAKES COORDINATE SYSTEM
MICHIGAN CENTRAL ZONE #2112, NORTH AMERICAN DATUM (NAD) OF 1983.
VERTICAL - INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985.
- 3) THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL LAUNCH 3053 EMPLOYING THE FOLLOWING COMPONENTS:
POSITIONING: APPLANIX POS-MV4 W/MARINESTAR GPS CORRECTIONS.
MOTION COMPENSATION: APPLANIX POS-MV4
SONAR: ODOM CV-5000 STEELBEAM TRANSDUCER
- SOFTWARE: HYPACK 2018
- 4) WATER LEVEL ELEVATIONS WERE OBTAINED FROM TBM STEEL CORNER WHICH WAS ESTABLISHED FROM NGS VERTICAL CONTROL POINT BM RANGE (PID QK0021).
- 5) THE EDITED SINGLEBEAM DATA WAS SORTED INTO A 10 FT. DATA SET WITH THE RESULTING POINTS POSTED _____.



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VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985.
- 3) THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL LAUNCH 3053 EMPLOYING THE FOLLOWING COMPONENTS:
POSITIONING: APPLINK POS-MV4 WIMARINESTAR GPS CORRECTIONS,
MOTION COMPENSATION: APPLINK POS-MV4
SONAR: ODOM CV-300 (SINGLEBEAM TRANSDUCER)
SOFTWARE: HYPACK 2018
- 4) WATER LEVEL ELEVATIONS WERE OBTAINED FROM TBM STEEL CORNER WHICH WAS ESTABLISHED FROM NGS VERTICAL CONTROL POINT BM RANGE (PID QK0021).
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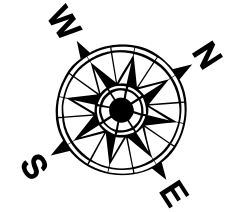


LEGEND

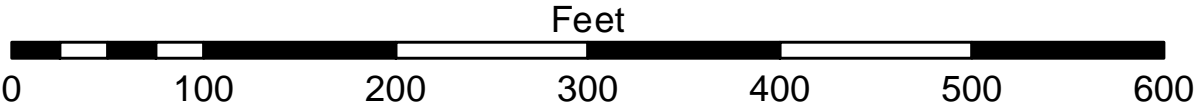
- Cable Submarine
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SOUNDING LEGEND

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3) THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL LAUNCH 3053 EMPLOYING THE FOLLOWING COMPONENTS: POSITIONING: APPLANIX POS-MV4 WIMARINESTAR GPS CORRECTIONS. MOTION COMPENSATION: APPLANIX POS-MV4. SONAR: ODOM CV-300 (SINGLEBEAM TRANSDUCER) SOFTWARE: HYPACK 2018

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CHEBOYGAN HARBOR, MI
Cheboygan Harbor
CH_01_BOY_20210818_CS
18 August 2021

Sheet Reference Number
6 of 6

U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT	
Submitted: _____	Surveyed By: _____
Recommended: _____	Plotted By: _____
Approved: _____	Checked By: _____

DISCLAIMER: The data represents the results of data collection operations for a specific US Army Corps of Engineers activity and indicates the general existing conditions. The data is not intended to be used for any other purpose, accuracy, or specifications. The user is responsible for the results of any of the application of the data for other than its intended purpose.

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