

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'

1 inch = 100 feet

Feet

0 100 200 300 400 500 600

NOTES: 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 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 SOUTH ZONE #2113, NORTH AMERICAN DATUM (NAD) OF 1983.
VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985.

THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL LAUNCH 3053 EMPLOYING THE FOLLOWING COMPONENTS:
POSITIONING: APPLANIX POS-MV 4 MARINESTAR G2+ GNSS .
MOTION COMPENSATION: APPLANIX POS-MV 4
SONAR: ODOM CV-300
SOFTWARE: HYPACK 2018

WATER LEVELS USED WERE REFERENCED TO TBM RAMP LOCATED AT THE TOP CORNER OF STEEL SEAWALL AND TBM CDF LOCATED AT THE OLD U.S.A.C.E. CONFINED DISPOSAL FACILITY ALONG THE SEAWALL IDENTIFIED WITH ORANGE PAINT MARK: L.W.D. = 577.5'

TIDE VALUES ARE DERRIVED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) WATER LEVEL STATION: ESSEXVILLE, MI (#6075035)

IMAGERY SOURCED FROM: 2014 MICHIGAN NAIP IMAGERY

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

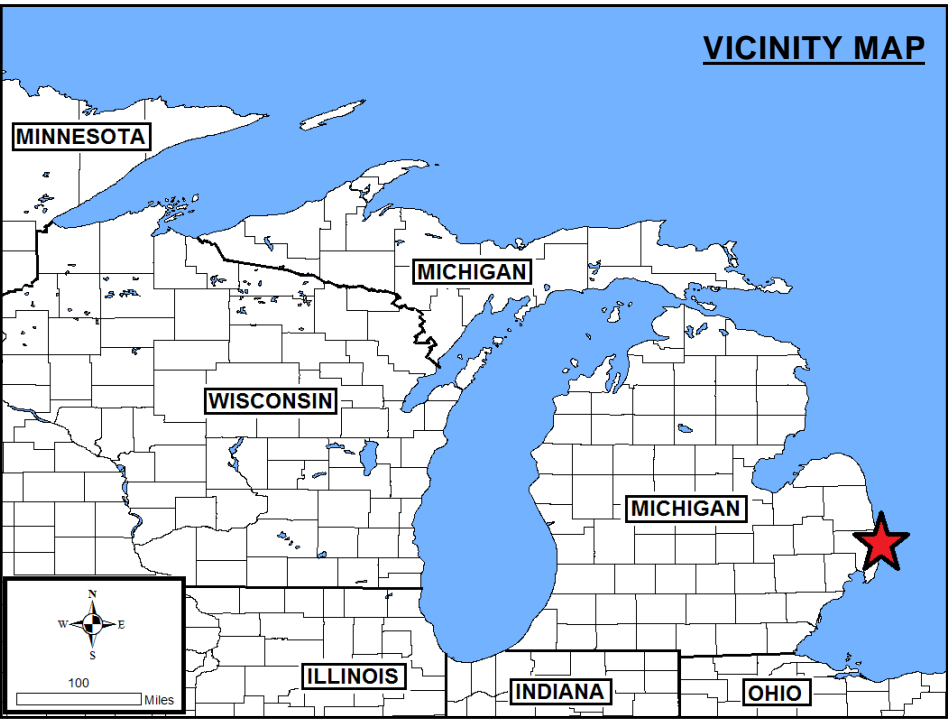
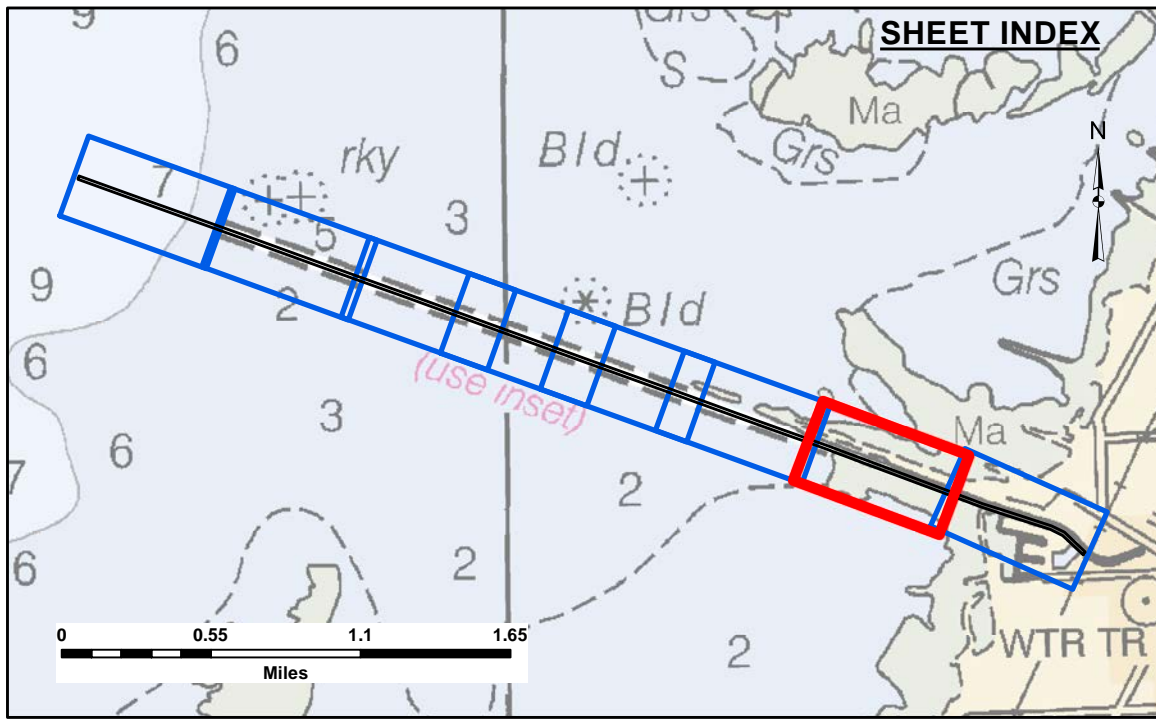
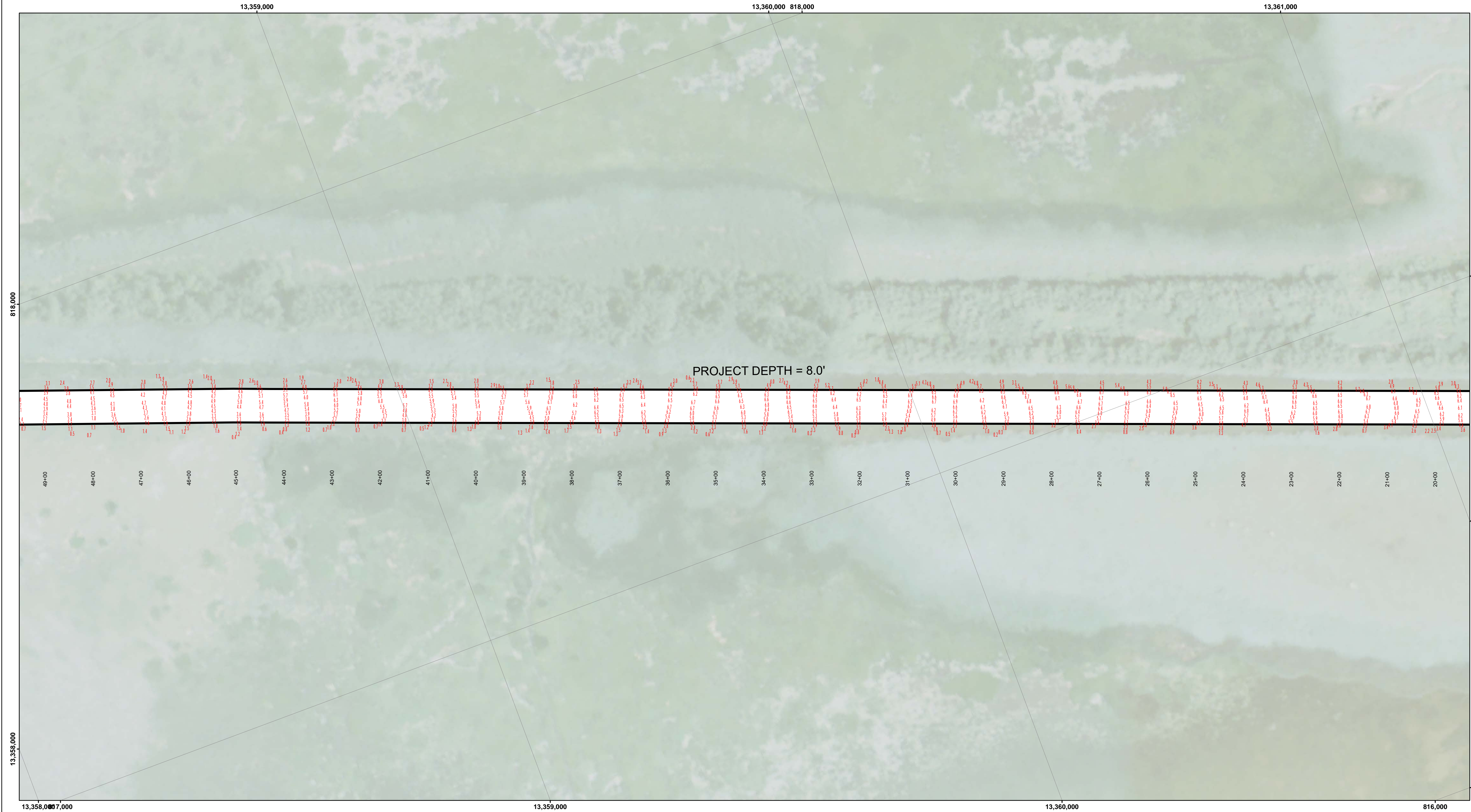
DISCLAIMER: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were provided. The recipient may not transfer these data to others without transferring the Disclaimer.

DISCLAIMER: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were provided. The recipient may not transfer these data to others without transferring the Disclaimer.

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

Sebewaing River, MI
Sebewaing River
SE_01_BWG_20230607_CS
07 June 2023

**Sheet
Reference
Number**
1 of 8



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'

1 inch = 100 feet

Feet

0 100 200 300 400 500 600

NOTES: 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 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 SOUTH ZONE #2113, NORTH AMERICAN DATUM (NAD) OF 1983.
VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985.

THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL LAUNCH 3053 EMPLOYING THE FOLLOWING COMPONENTS:
POSITIONING: APPLANIX POS-MV 4 MARINESTAR G2+ GNSS .
MOTION COMPENSATION: APPLANIX POS-MV 4
SONAR: ODOM CV-300
SOFTWARE: HYPACK 2018

WATER LEVELS USED WERE REFERENCED TO TBM RAMP LOCATED AT THE TOP CORNER OF STEEL SEAWALL AND TBM CDF LOCATED AT THE OLD U.S.A.C.E. CONFINED DISPOSAL FACILITY ALONG THE SEAWALL IDENTIFIED WITH ORANGE PAINT MARK: L.W.D. = 577.5

TIDE VALUES ARE DERRIVED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) WATER LEVEL STATION: ESSEXVILLE, MI (#6075035)

IMAGERY SOURCED FROM: 2014 MICHIGAN NAIP IMAGERY

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

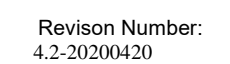
DISCLAIMER: The data represents the results of data collection/processing for a specific US Army Corps of Engineers activity and indicates the general existing conditions. The user is responsible for the results of the application of the data for other than its intended purpose. The user is responsible for the results of the application of the data for other than its intended purpose. The user is responsible for the results of the application of the data for other than its intended purpose.

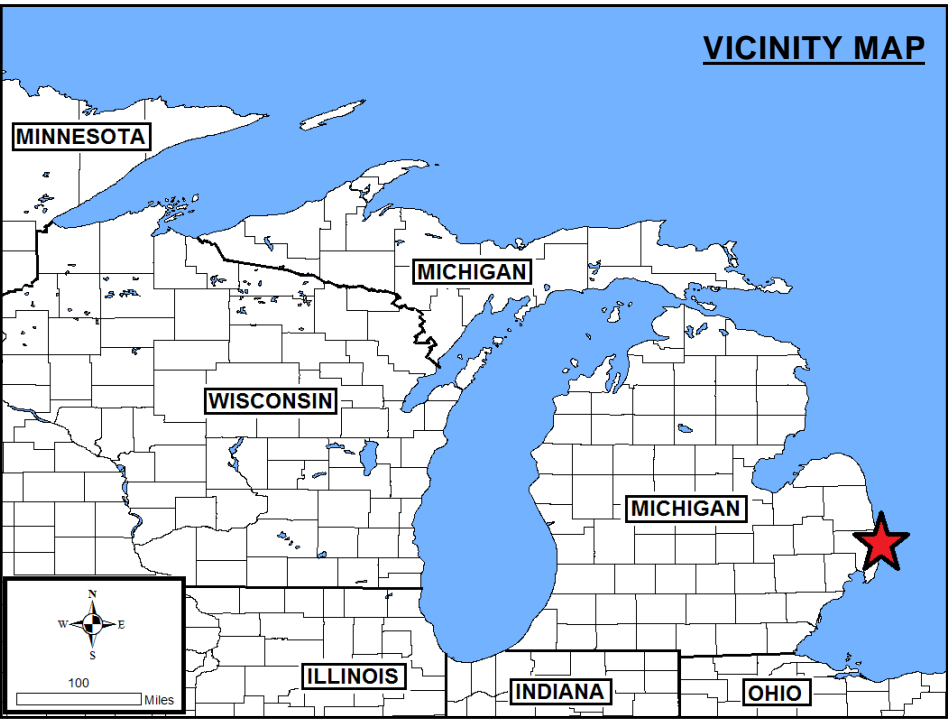
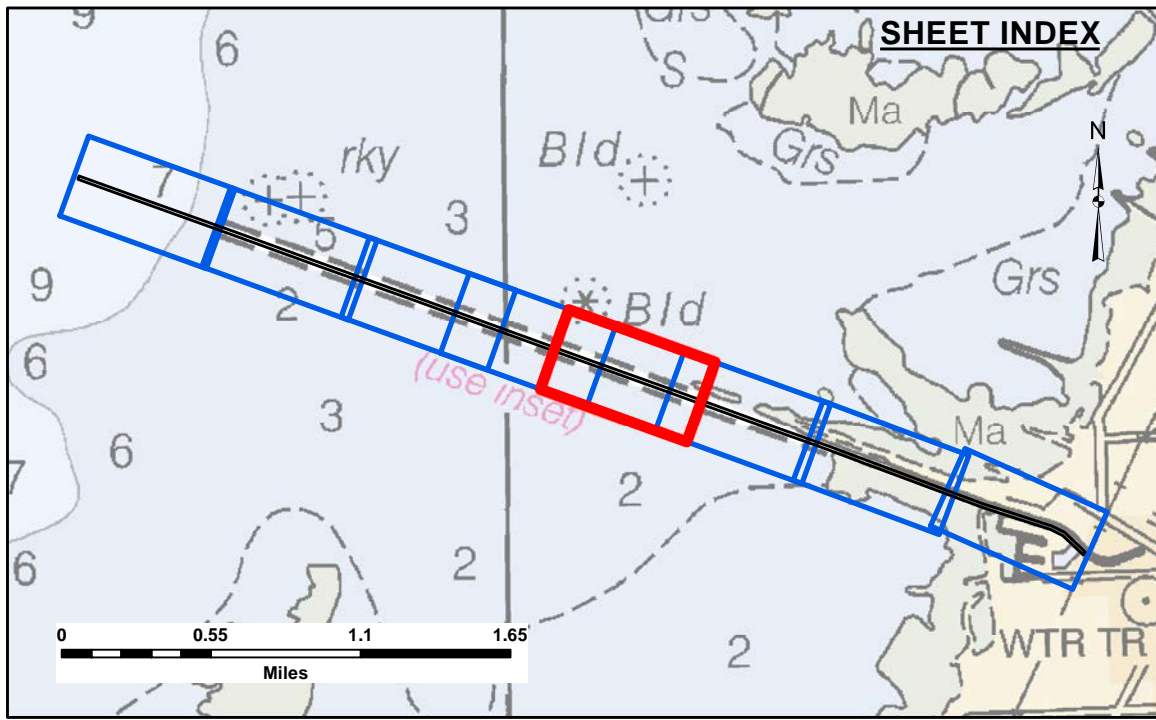
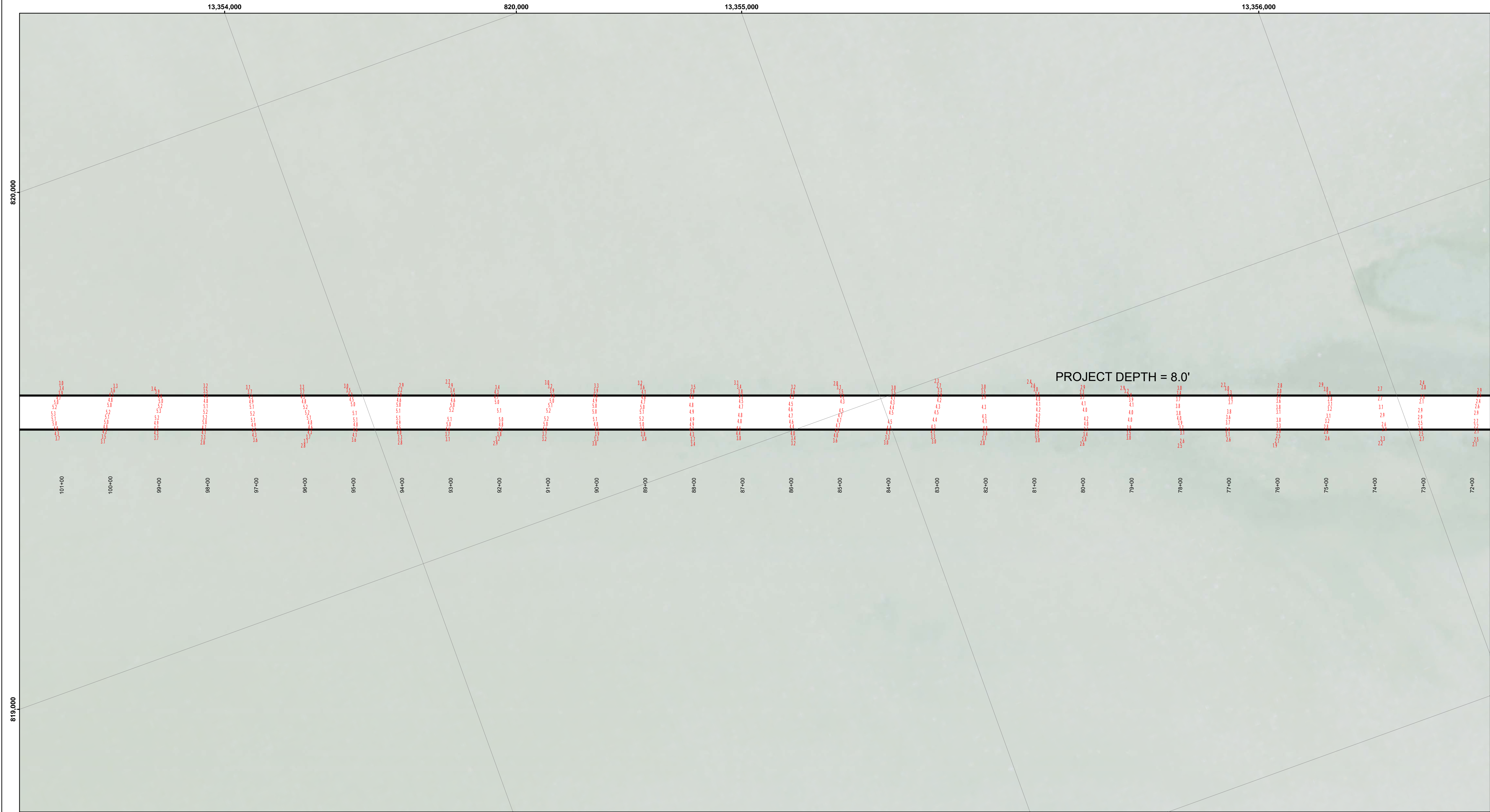
Access/Consent: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were provided. The recipient may not transfer these data to others without transferring the Disclaimer.

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

Sebewaing River, MI
Sebewaing River
SE_01_BWG_20230607_CS
07 June 2023

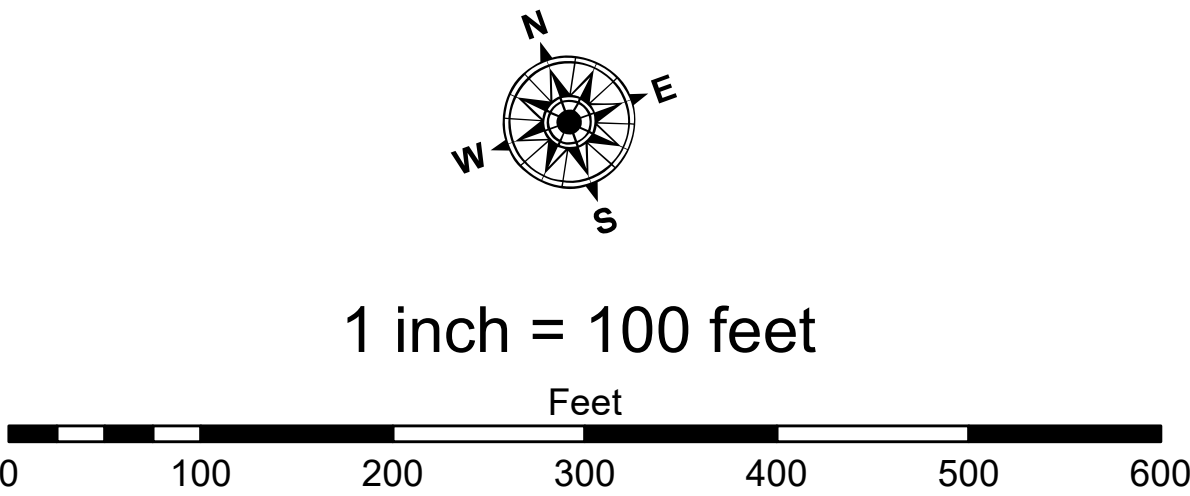
**Sheet
Reference
Number**
2 of 8





- 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: 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 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 SOUTH ZONE #2113, NORTH AMERICAN DATUM (NAD) OF 1983.
VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985.

THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL LAUNCH 3053 EMPLOYING THE FOLLOWING COMPONENTS:
POSITIONING: APPLANIX POS-MV 4 MARINESTAR G2+ GNSS .
MOTION COMPENSATION: APPLANIX POS-MV 4
SONAR: ODOM CV-300
SOFTWARE: HYPACK 2018

WATER LEVELS USED WERE REFERENCED TO TBM RAMP LOCATED AT THE TOP CORNER OF STEEL SEAWALL AND TBM CDF LOCATED AT THE OLD U.S.A.C.E. CONFINED DISPOSAL FACILITY ALONG THE SEAWALL IDENTIFIED WITH ORANGE PAINT MARK: L.W.D. = 577.5

TIDE VALUES ARE DERRIVED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) WATER LEVEL STATION: ESSEXVILLE, MI (#6075035)

IMAGERY SOURCED FROM: 2014 MICHIGAN NAIP IMAGERY



DISCLAIMER: The data represents the results of data collection and processing 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 purpose other than the intended purpose. The user is responsible for the results of any of the application of the data for other than its intended purpose. The user is responsible for the results of any of the application of the data for other than its intended purpose.

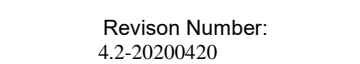
ACCESS: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than the intended purpose. The data are not to be used for any purpose other than the intended purpose. The data are not to be used for any purpose other than the intended purpose.

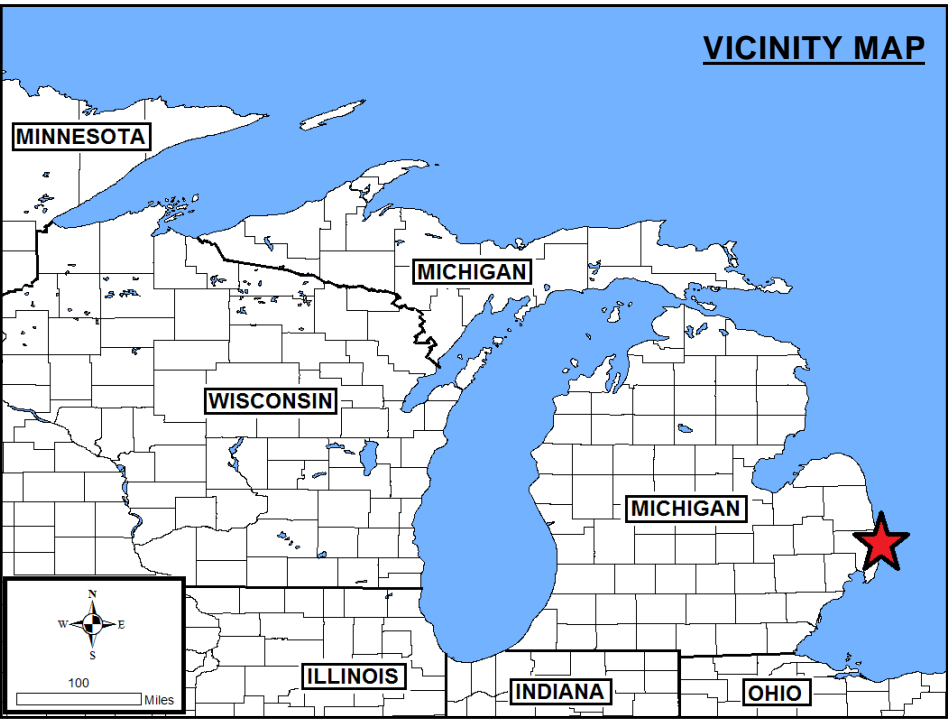
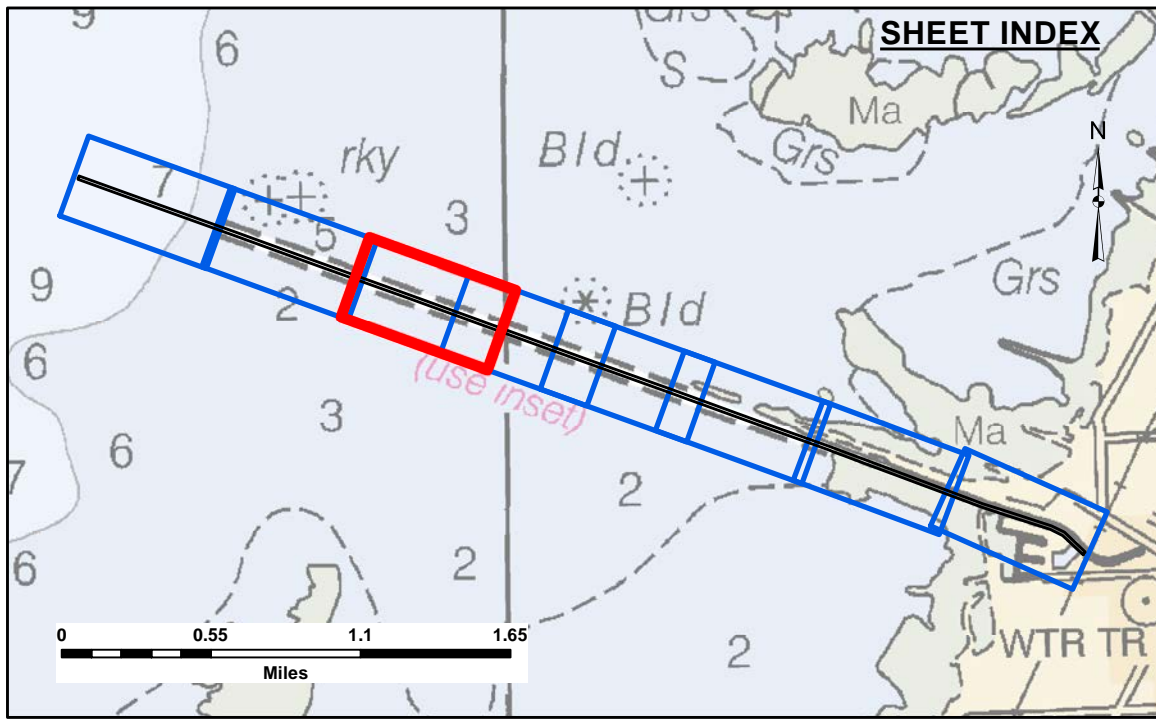
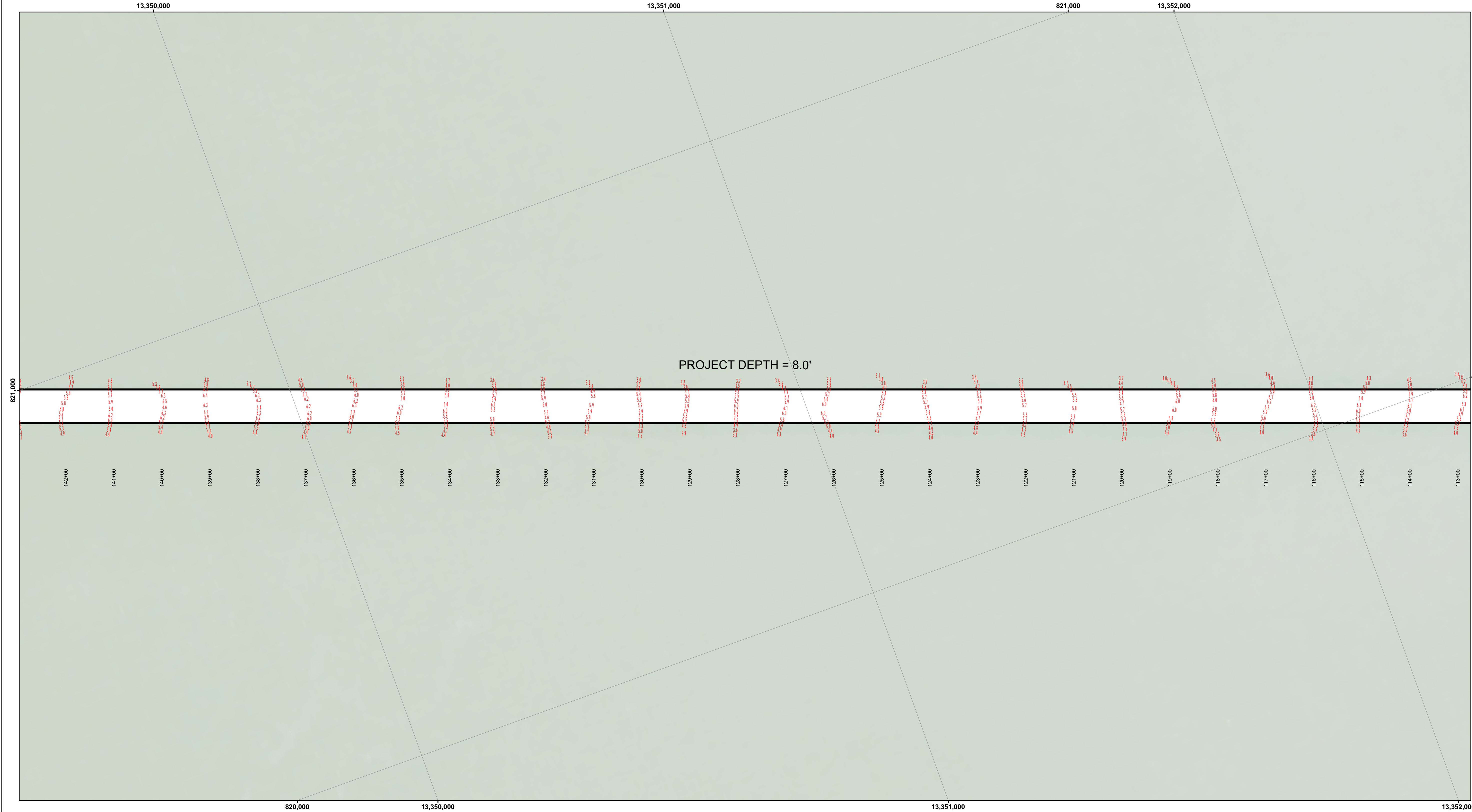
U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT		
Submitted:	Surveyed By:	
Recommended:	Plotted By:	
Approved:	Chief, Survey Section	
	Chief, Technical Services	

Sebewaing River, MI
Sebewaing River
SE_01_BWG_20230607_CS
07 June 2023

Sheet
Reference
Number
4 of 8

Revision Number:
4.2-310(MN-20)





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'

1 inch = 100 feet

Feet

0 100 200 300 400 500 600

NOTES: 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 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 SOUTH ZONE #2113, NORTH AMERICAN DATUM (NAD) OF 1983.
VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985.

THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL LAUNCH 3053 EMPLOYING THE FOLLOWING COMPONENTS:
POSITIONING: APPLANIX POS-MV 4 MARINESTAR G2+ GNSS .
MOTION COMPENSATION: APPLANIX POS-MV 4
SONAR: ODOM CV-300
SOFTWARE: HYPACK 2018

WATER LEVELS USED WERE REFERENCED TO TBM RAMP LOCATED AT THE TOP CORNER OF STEEL SEAWALL AND TBM CDF LOCATED AT THE OLD U.S.A.C.E. CONFINED DISPOSAL FACILITY ALONG THE SEAWALL IDENTIFIED WITH ORANGE PAINT MARK: L.W.D. = 577.5

TIDE VALUES ARE DERRIVED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) WATER LEVEL STATION: ESSEXVILLE, MI (#6075035)

IMAGERY SOURCED FROM: 2014 MICHIGAN NAIP IMAGERY

US Army Corps of Engineers
District: CELRE

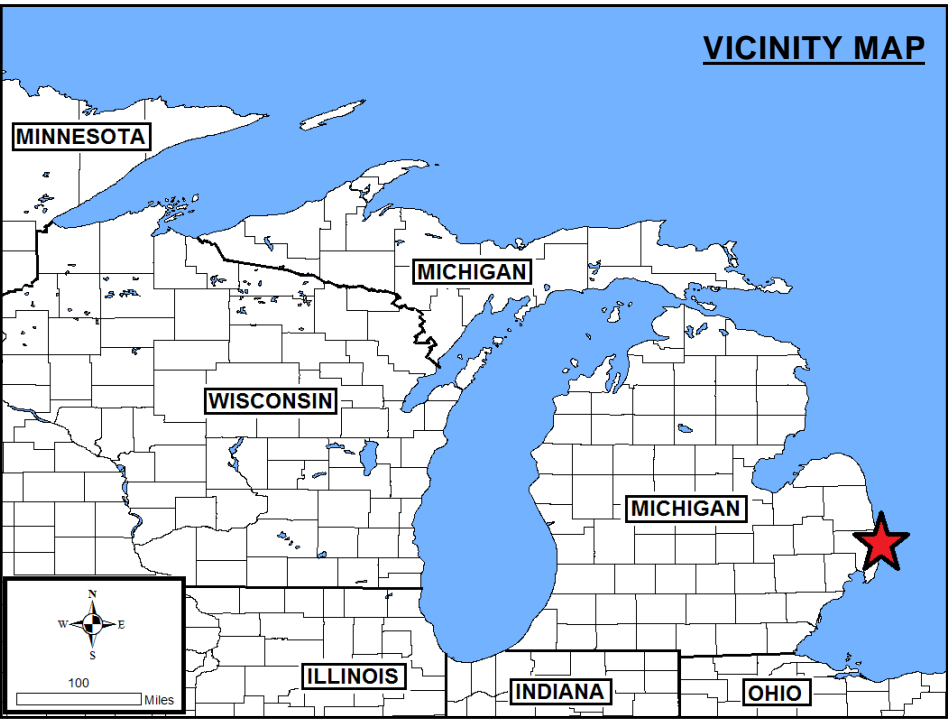
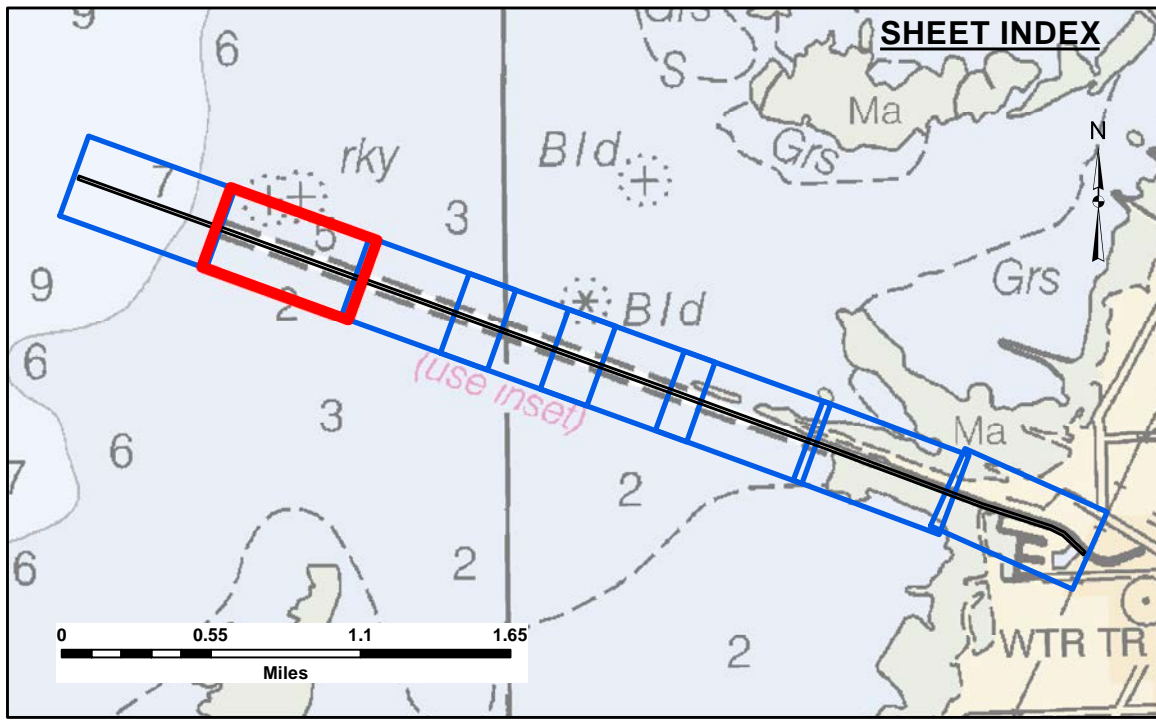
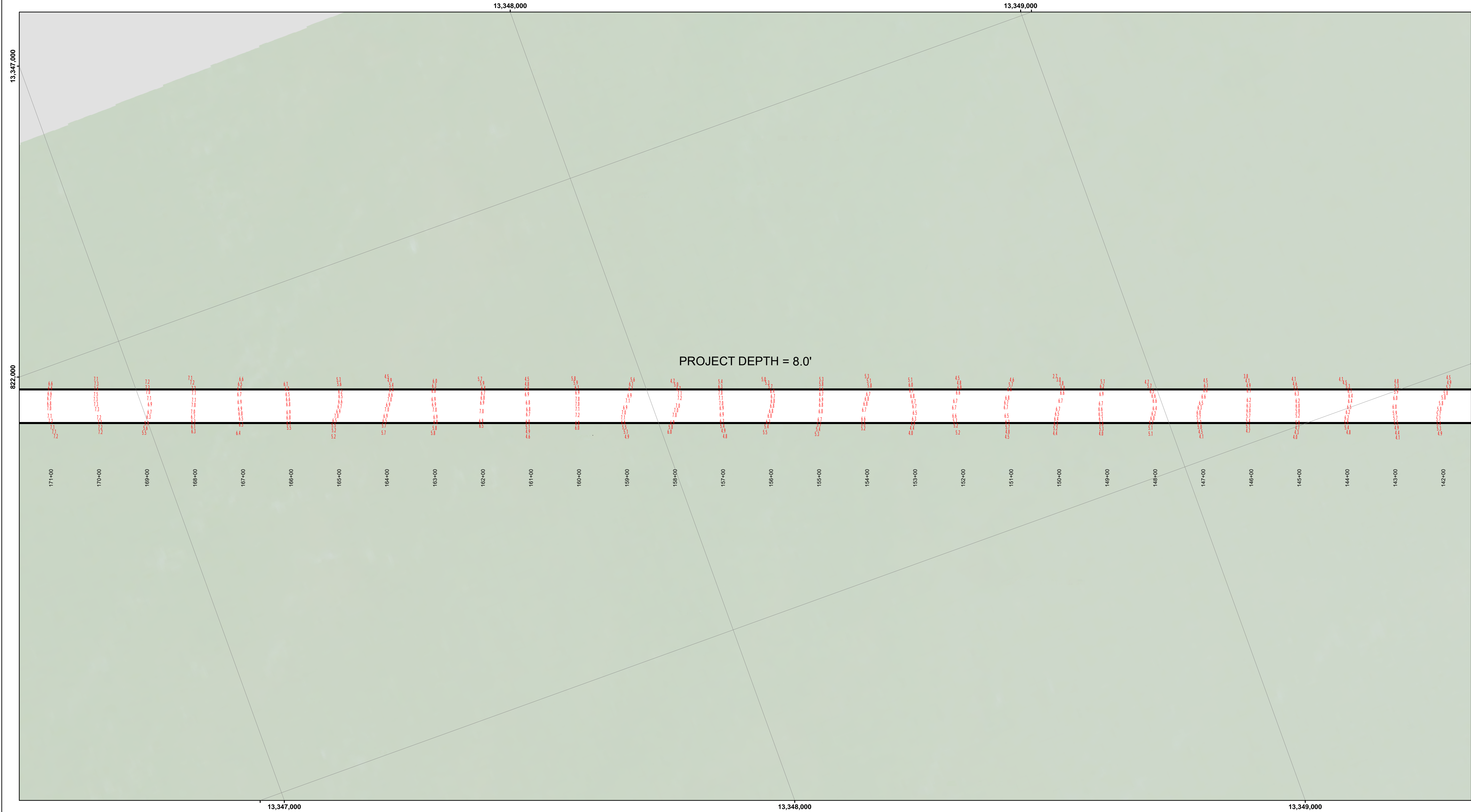
DISCLAIMER: The data represents the results of data collection and processing for a specific US Army Corps of Engineers activity and indicates the general existing conditions. The data is not intended to be used for any purpose other than the intended purpose. The user is responsible for the results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

Access: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than the intended purpose. The data are not to be used for any purpose other than the intended purpose. The data are not to be used for any purpose other than the intended purpose.

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

Sebewaing River, MI
Sebewaing River
SE_01_BWG_20230607_CS
07 June 2023

Sheet Reference Number
6 of 8



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'

1 inch = 100 feet

Feet

0 100 200 300 400 500 600

NOTES: 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 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 SOUTH ZONE #2113, NORTH AMERICAN DATUM (NAD) OF 1983.
VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985.

THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL LAUNCH 3053 EMPLOYING THE FOLLOWING COMPONENTS:
POSITIONING: APPLANIX POS-MV 4 MARINESTAR G2+ GNSS .
MOTION COMPENSATION: APPLANIX POS-MV 4
SONAR: ODOM CV-300
SOFTWARE: HYPACK 2018

WATER LEVELS USED WERE REFERENCED TO TBM RAMP LOCATED AT THE TOP CORNER OF STEEL SEAWALL AND TBM CDF LOCATED AT THE OLD U.S.A.C.E. CONFINED DISPOSAL FACILITY ALONG THE SEAWALL IDENTIFIED WITH ORANGE PAINT MARK: L.W.D. = 577.5

TIDE VALUES ARE DERRIVED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) WATER LEVEL STATION: ESSEXVILLE, MI (#6075035)

IMAGERY SOURCED FROM: 2014 MICHIGAN NAIP IMAGERY

US Army Corps of Engineers
District: CELRE

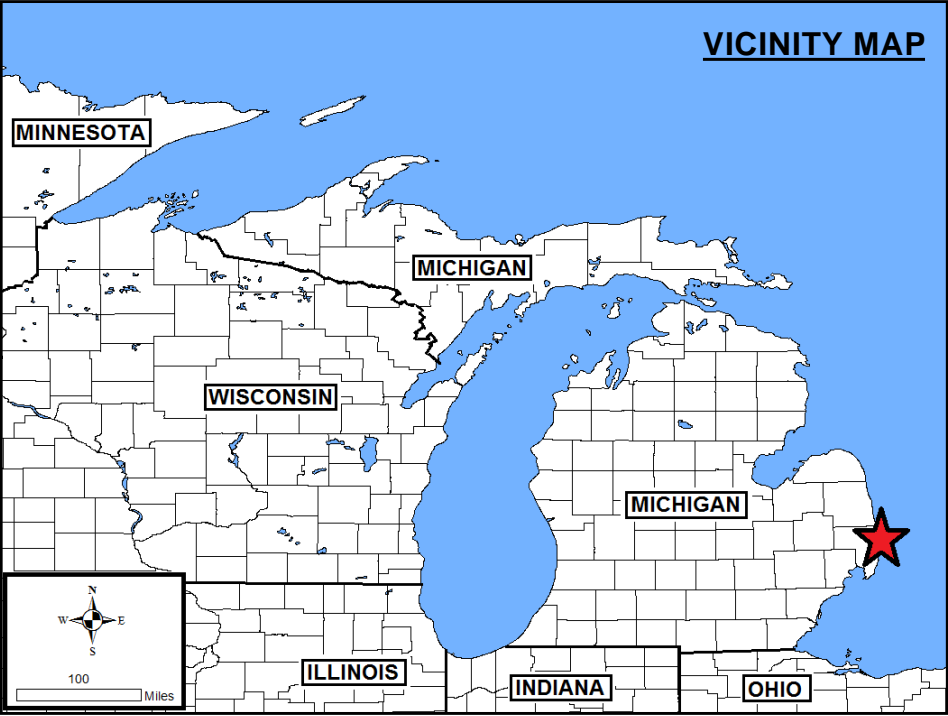
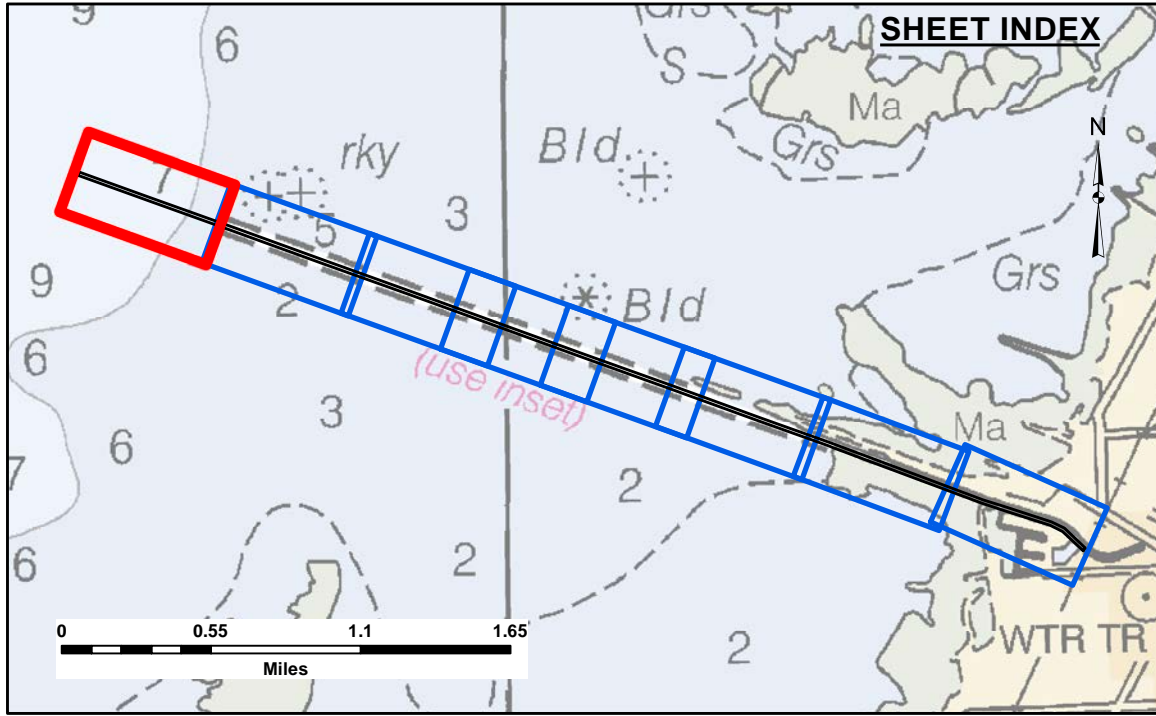
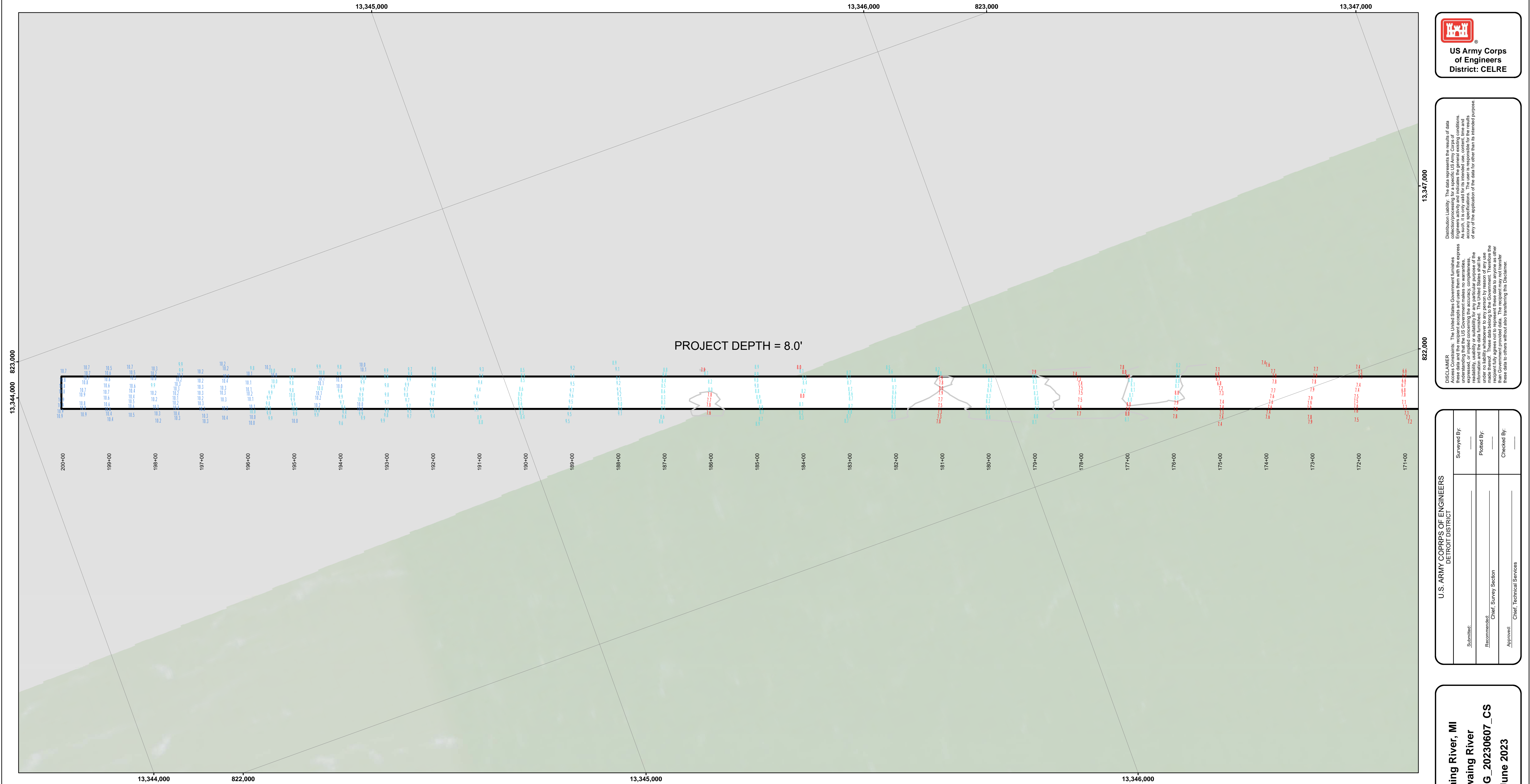
DISCLAIMER: The data represents the results of data collection and processing for a specific US Army Corps of Engineers activity and indicates the general existing conditions. The data is not intended to be used for any purpose other than the intended purpose. The user is responsible for the results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

Access: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than the intended purpose. The data are not to be used for any purpose other than the intended purpose. The data are not to be used for any purpose other than the intended purpose.

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

Sebewaing River, MI
Sebewaing River
SE_01_BWG_20230607_CS
07 June 2023

Sheet Reference Number
7 of 8



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'

1 inch = 100 feet

Feet

0 100 200 300 400 500 600

NOTES: 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 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 SOUTH ZONE #2113, NORTH AMERICAN DATUM (NAD) OF 1983.
VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985.

THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL LAUNCH 3053 EMPLOYING THE FOLLOWING COMPONENTS:
POSITIONING: APPLANIX POS-MV 4 MARINESTAR G2+ GNSS .
MOTION COMPENSATION: APPLANIX POS-MV 4
SONAR: ODOM CV-300
SOFTWARE: HYPACK 2018

WATER LEVELS USED WERE REFERENCED TO TBM RAMP LOCATED AT THE TOP CORNER OF STEEL SEAWALL AND TBM CDF LOCATED AT THE OLD U.S.A.C.E. CONFINED DISPOSAL FACILITY ALONG THE SEAWALL IDENTIFIED WITH ORANGE PAINT MARK: L.W.D. = 577.5

TIDE VALUES ARE DERRIVED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) WATER LEVEL STATION: ESSEXVILLE, MI (#6075035)

IMAGERY SOURCED FROM: 2014 MICHIGAN NAIP IMAGERY

U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

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

Chief, Survey Section
Chief, Technical Services

Sebewaing River, MI
Sebewaing River
SE_01_BWG_20230607_CS
07 June 2023

Sheet
Reference
Number
8 of 8

US Army Corps of Engineers
District: CELRE

DISCLAIMER: The data represents the results of data collection and processing 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 purpose other than the intended purpose. The user is responsible for the results of any of the application of the data for other than its intended purpose.

DISCLAIMER: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not intended to be used for any purpose other than the intended purpose. The user is responsible for the results of any of the application of the data for other than its intended purpose. The data are not intended to be used for any purpose other than the intended purpose. The user is responsible for the results of any of the application of the data for other than its intended purpose.