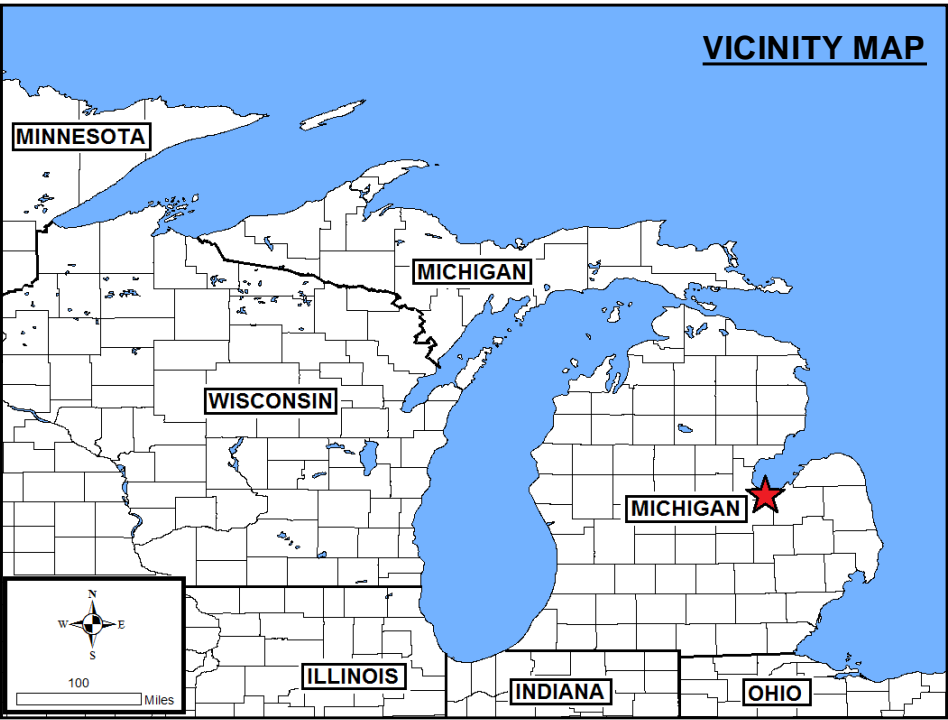
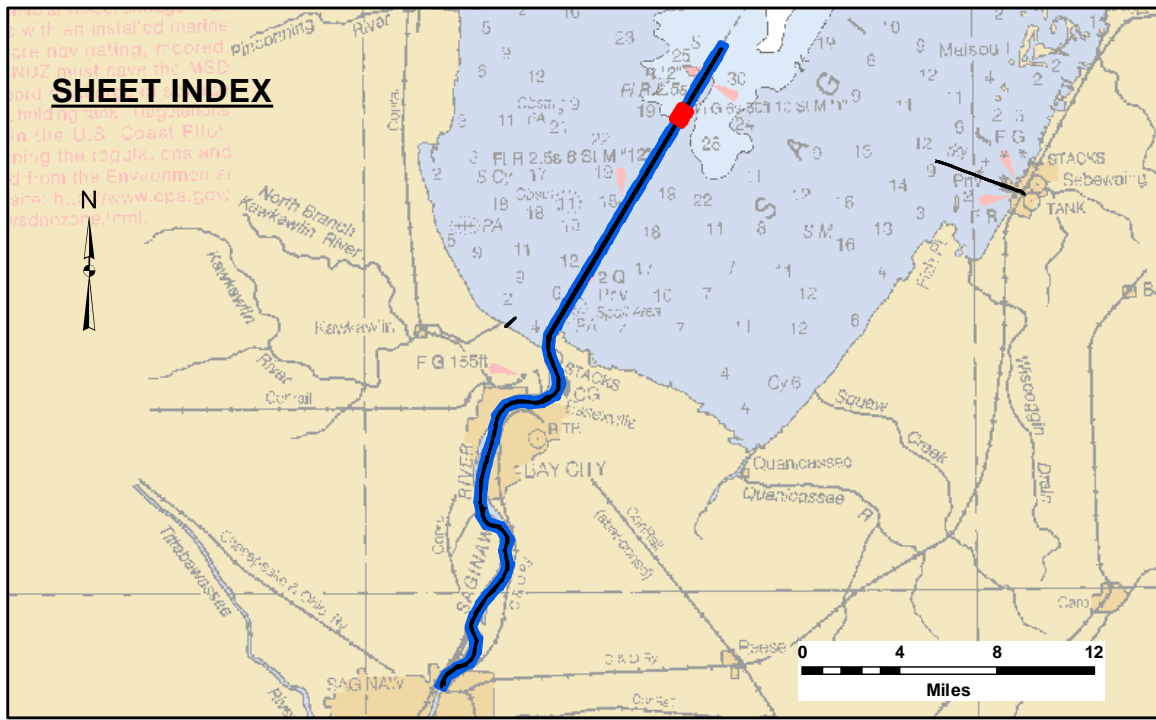


PROJECT DEPTH = 27.0'



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

NOTES: THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THE TIME.

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POSITIONING: APPLINX POS-MV4 W/ VRS/IRTK OR MARINESTAR GNSS. MOTION COMPENSATION: APPLINX POS-MV4. SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM). SOFTWARE: HYPACK

2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS. ALL COORDINATES ARE IN U.S. SURVEY FEET.



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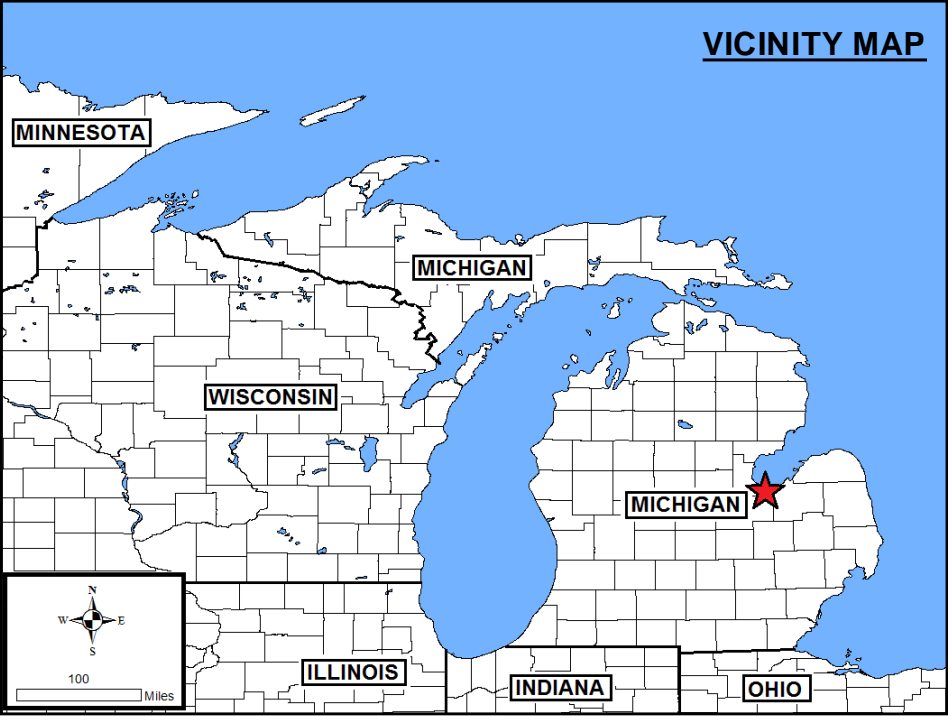
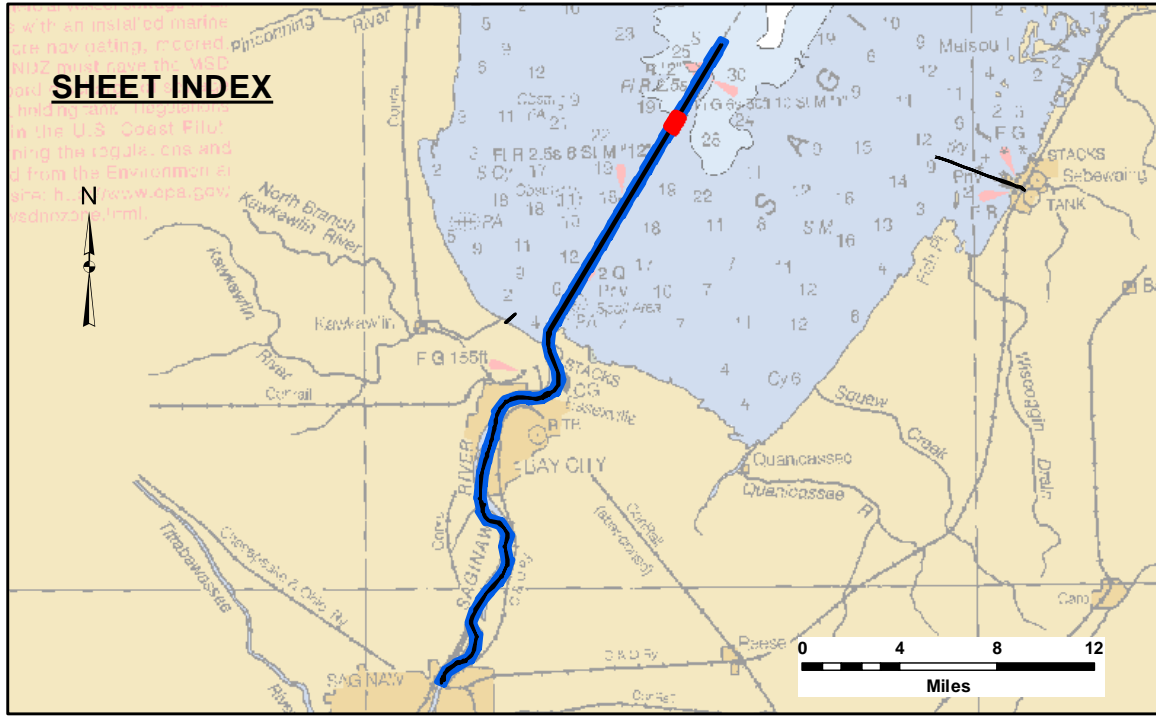
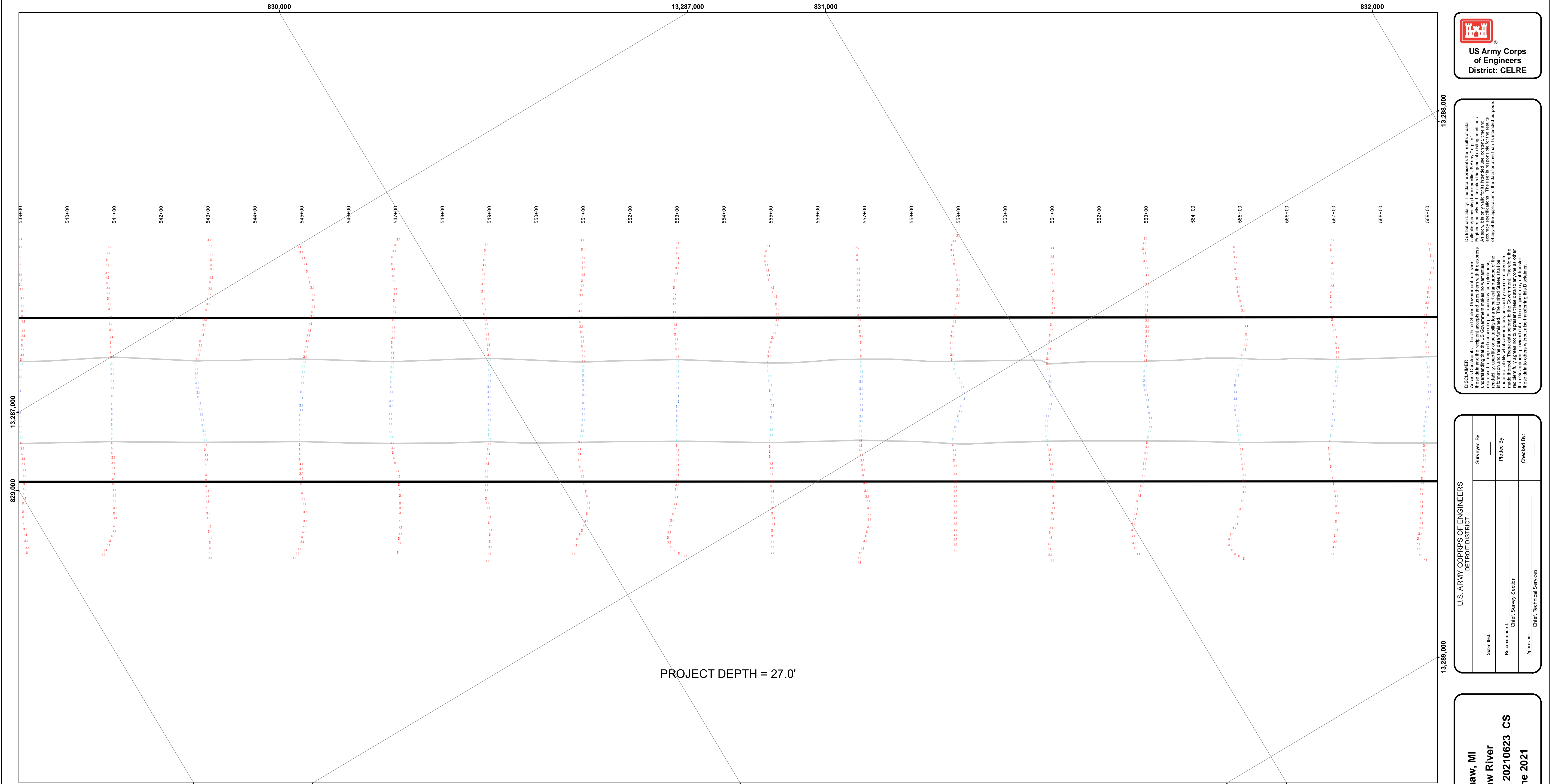
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Submitted:	Surveyed By:	
Recommended:	Plotted By:	
Approved:	Checked By:	
	Chief, Survey Section	
	Chief, Technical Services	

Saginaw, MI
Saginaw River
SH_01_SAG_20210623_CS
23 June 2021

Sheet Reference Number
7 of 62

Revision Number:
4.2-20210623



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

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POSITIONING APPLANIX POS-MV4 W/ VRS/RTK OR MARINESTAR GNSS.
MOTION COMPENSATION: APPLANIX POS-MV4
SONAR: R2SONIC 2024 (MULTIBEAM) OR ODON CV-300 (SINGLEBEAM)
SOFTWARE: HYPACK

2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS
ALL COORDINATES ARE IN U.S. SURVEY FEET.

Saginaw, MI
Saginaw River
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8 of 62

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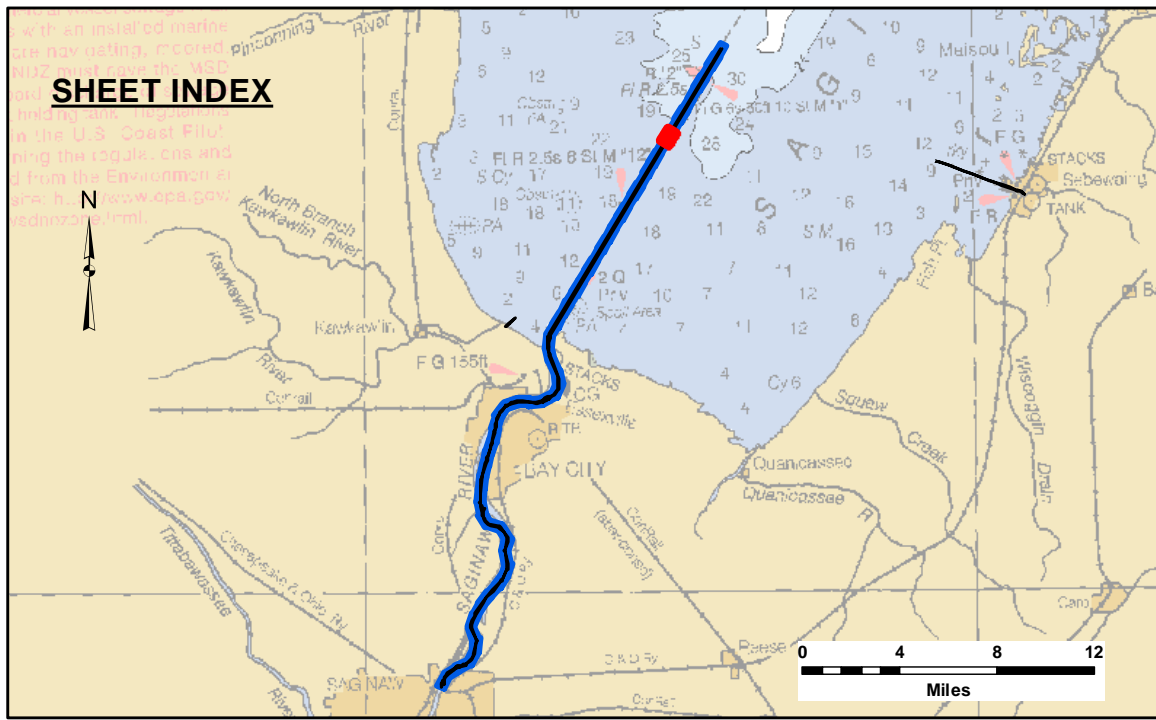
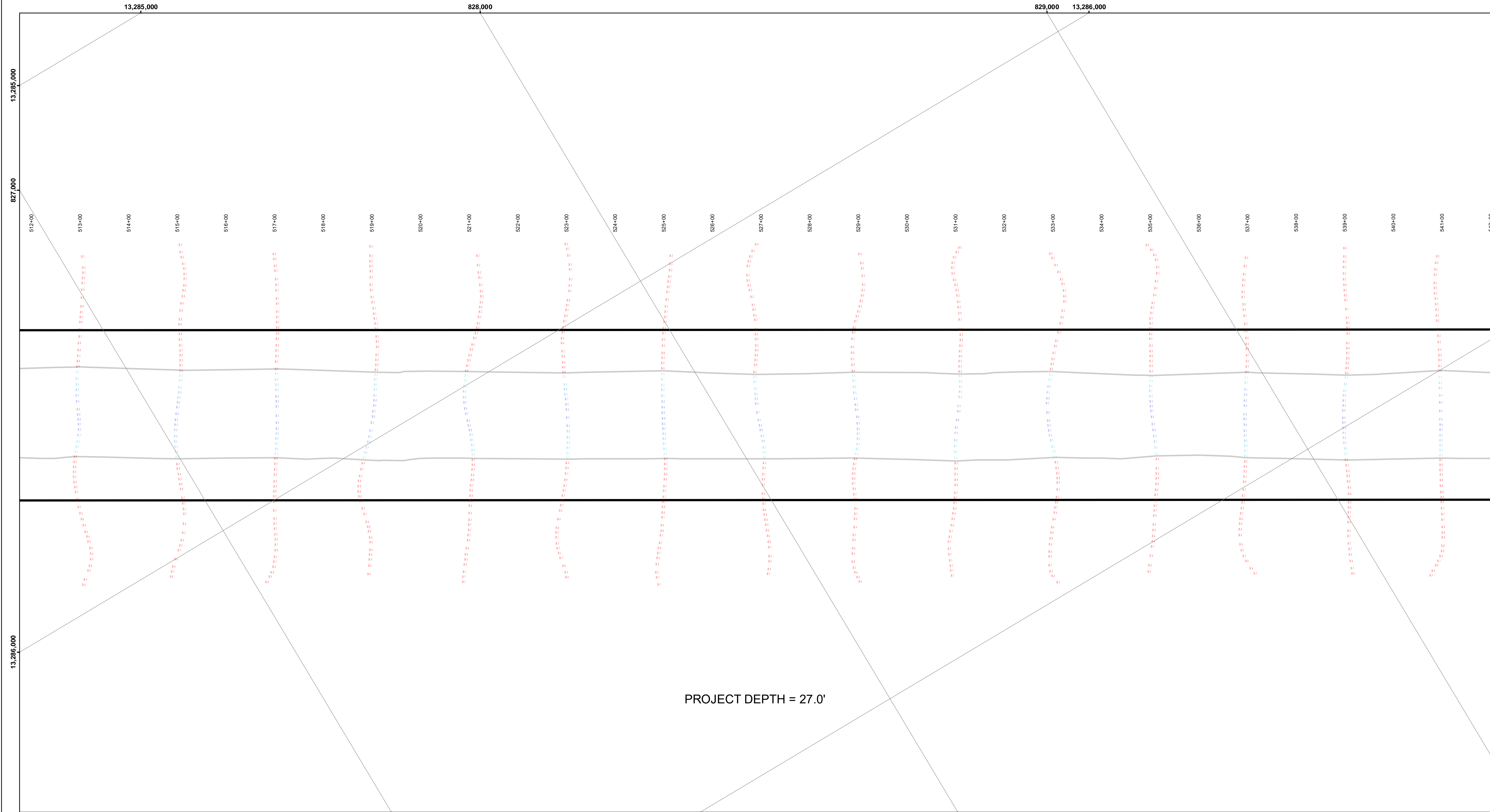
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U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

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

Saginaw, MI
Saginaw River
SH_01_SAG_20210623_CS
23 June 2021

Sheet Reference Number
8 of 62



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'
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0 100 200 300 400

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2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS ALL COORDINATES ARE IN U.S. SURVEY FEET.


US Army Corps of Engineers
District: CELRE

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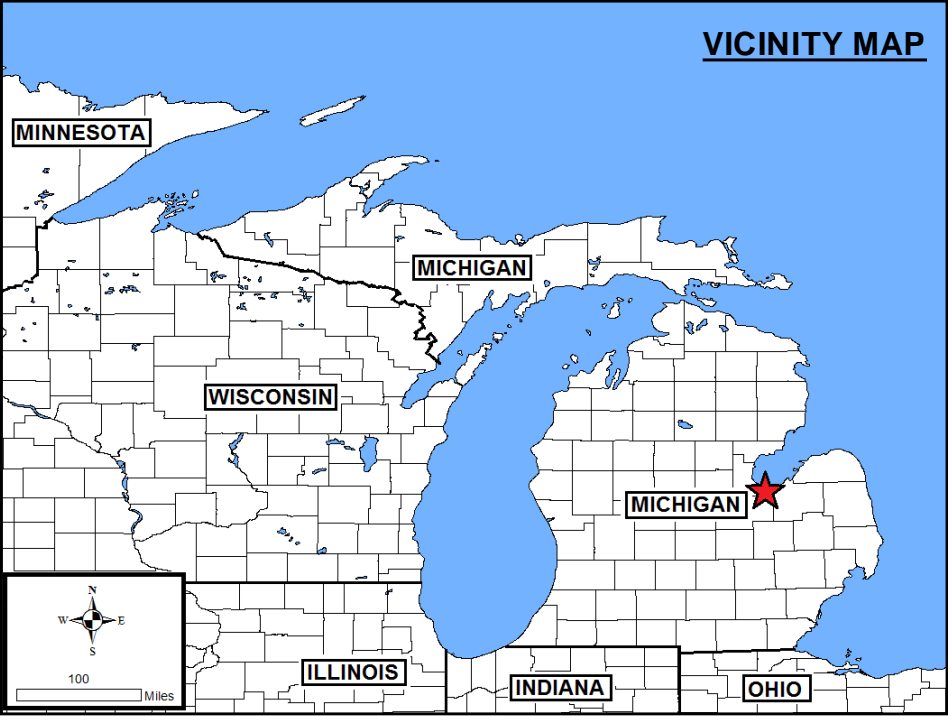
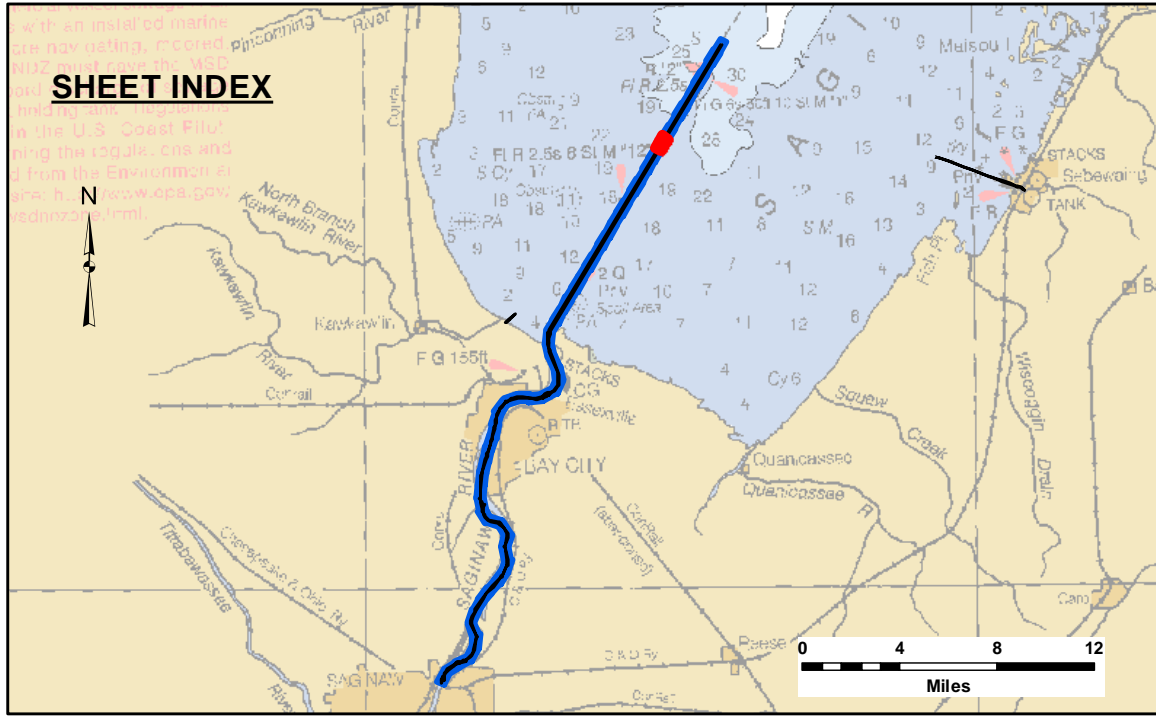
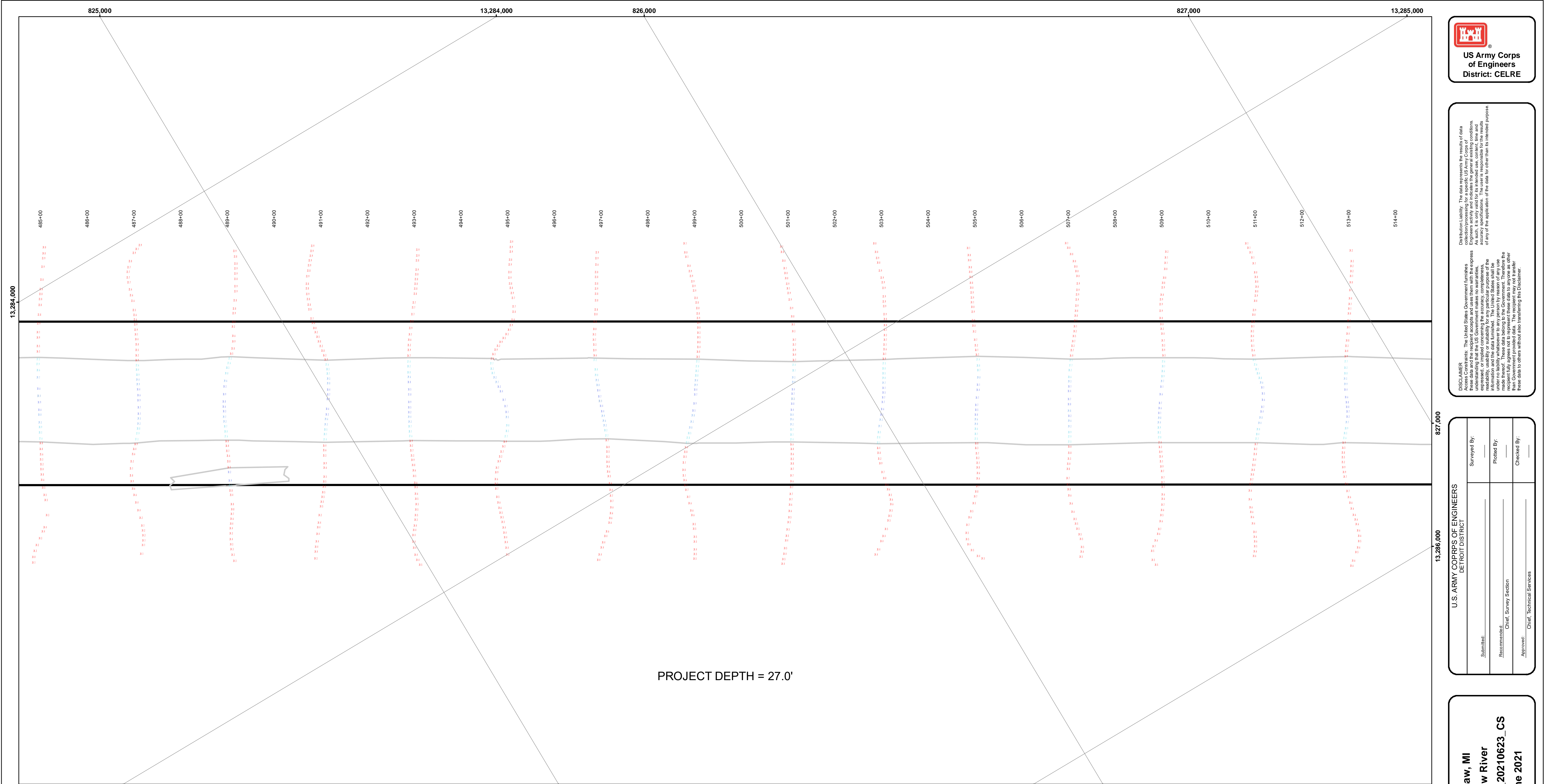
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U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

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

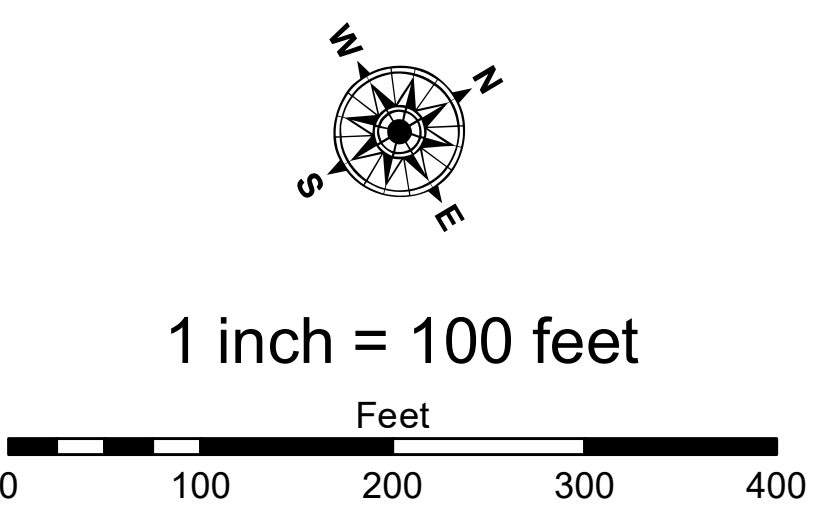
Saginaw, MI
Saginaw River
SH_01_SAG_20210623_CS
23 June 2021

Sheet Reference Number
9 of 62



- 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'
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POSITIONING: APPLANIX POS-MV4 W/ VRS/RTK OR MARINESTAR GNSS. MOTION COMPENSATION: APPLANIX POS-MV4 SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM) SOFTWARE: HYPACK

2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS ALL COORDINATES ARE IN U.S. SURVEY FEET.



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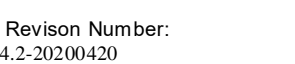
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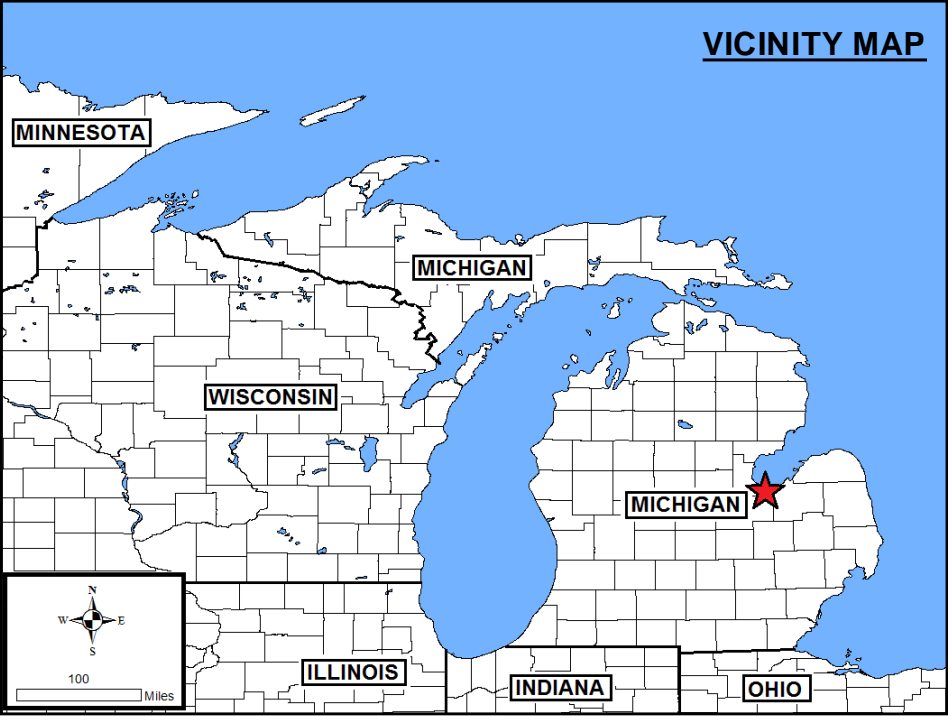
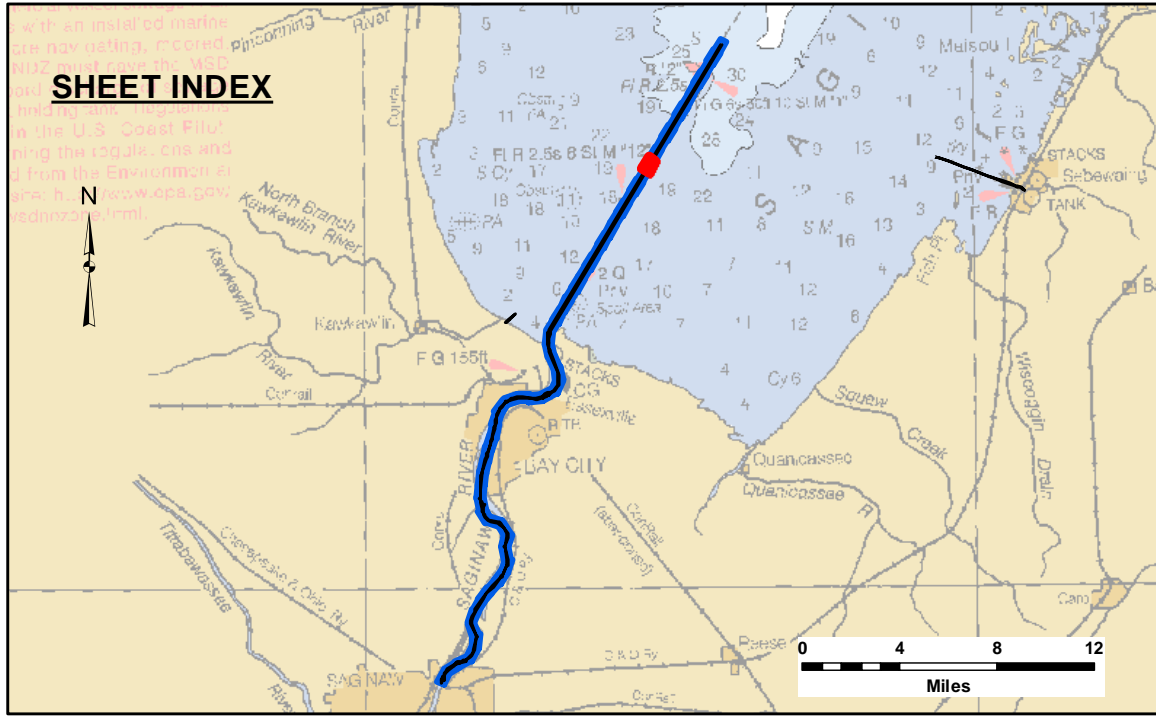
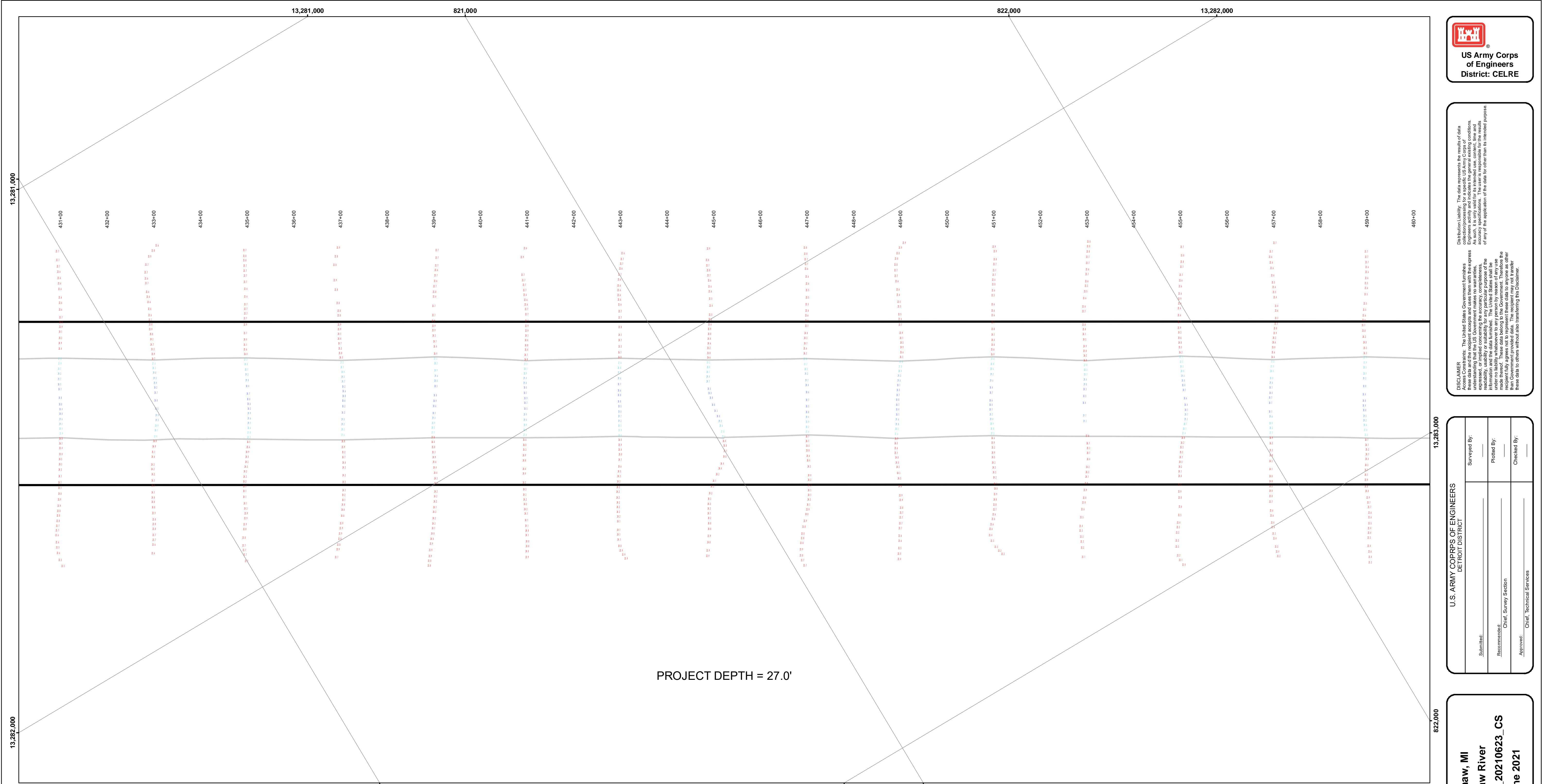
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Saginaw, MI
Saginaw River
SH_01_SAG_20210623_CS
23 June 2021

Sheet
Reference
Number
10 of 62

Revision Number:
4.2-202106/030





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'
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Feet

0 100 200 300 400

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POSITIONING: APPLANIX POS-MV4 OR VRS/RTK OR MARINESTAR GNSS.
MOTION COMPENSATION: APPLANIX POS-MV4
SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)
SOFTWARE: HYPACK

2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS
ALL COORDINATES ARE IN U.S. SURVEY FEET.

Saginaw, MI
Saginaw River
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23 June 2021

Sheet Reference Number
12 of 62

Revision Number:
4.2 2021061020

US Army Corps of Engineers
District: CELRE

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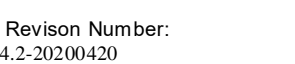
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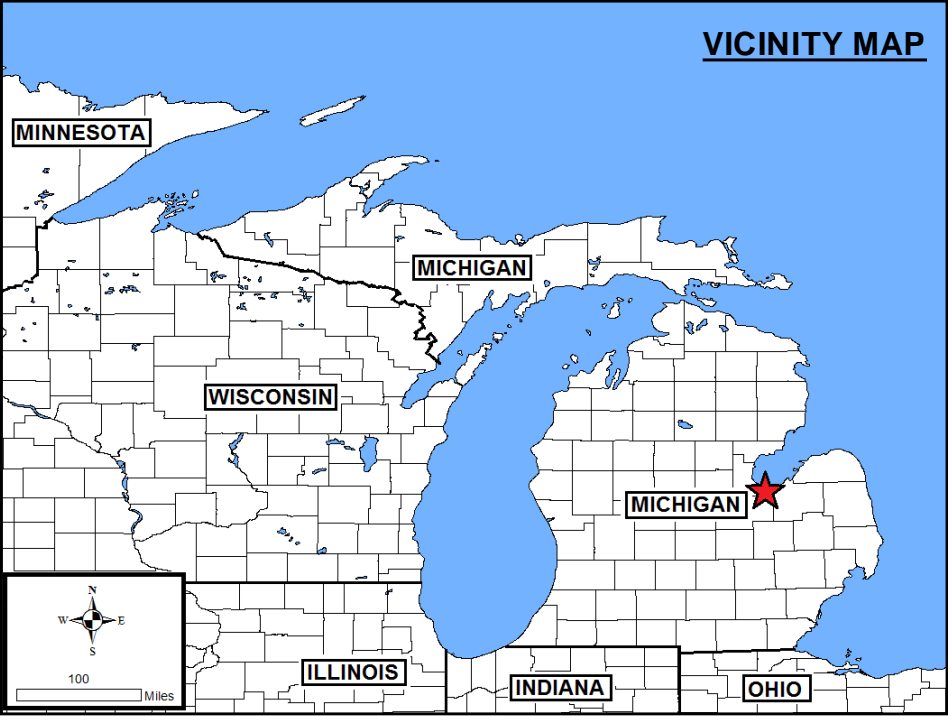
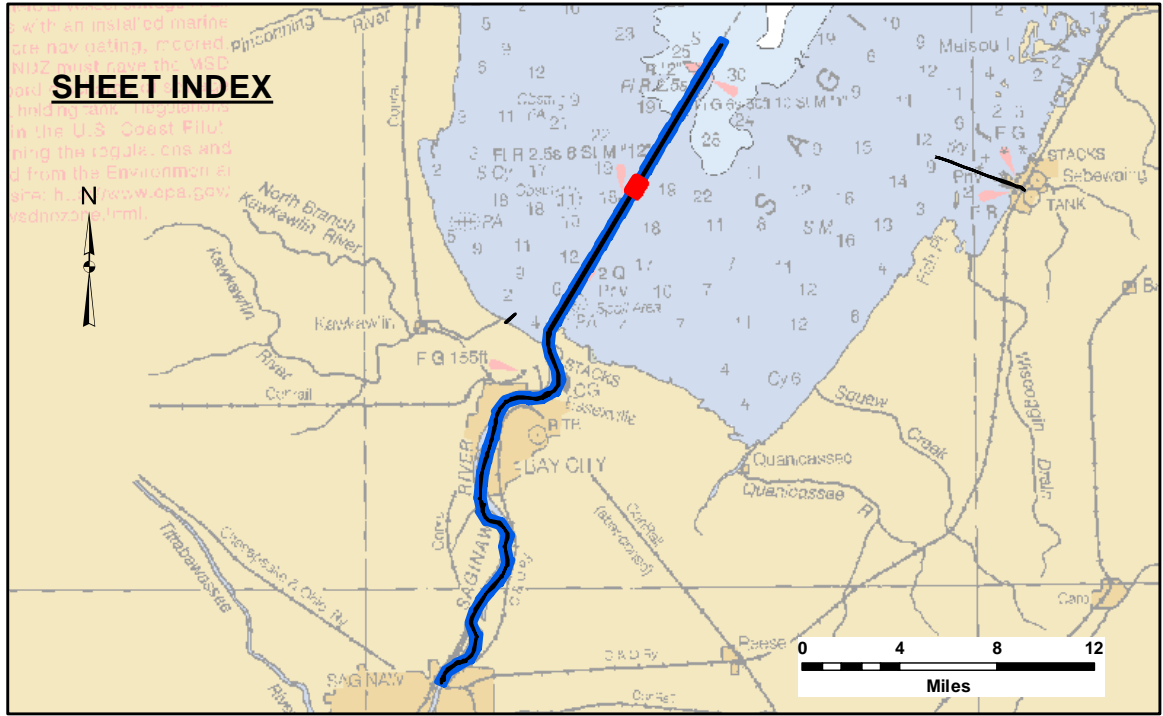
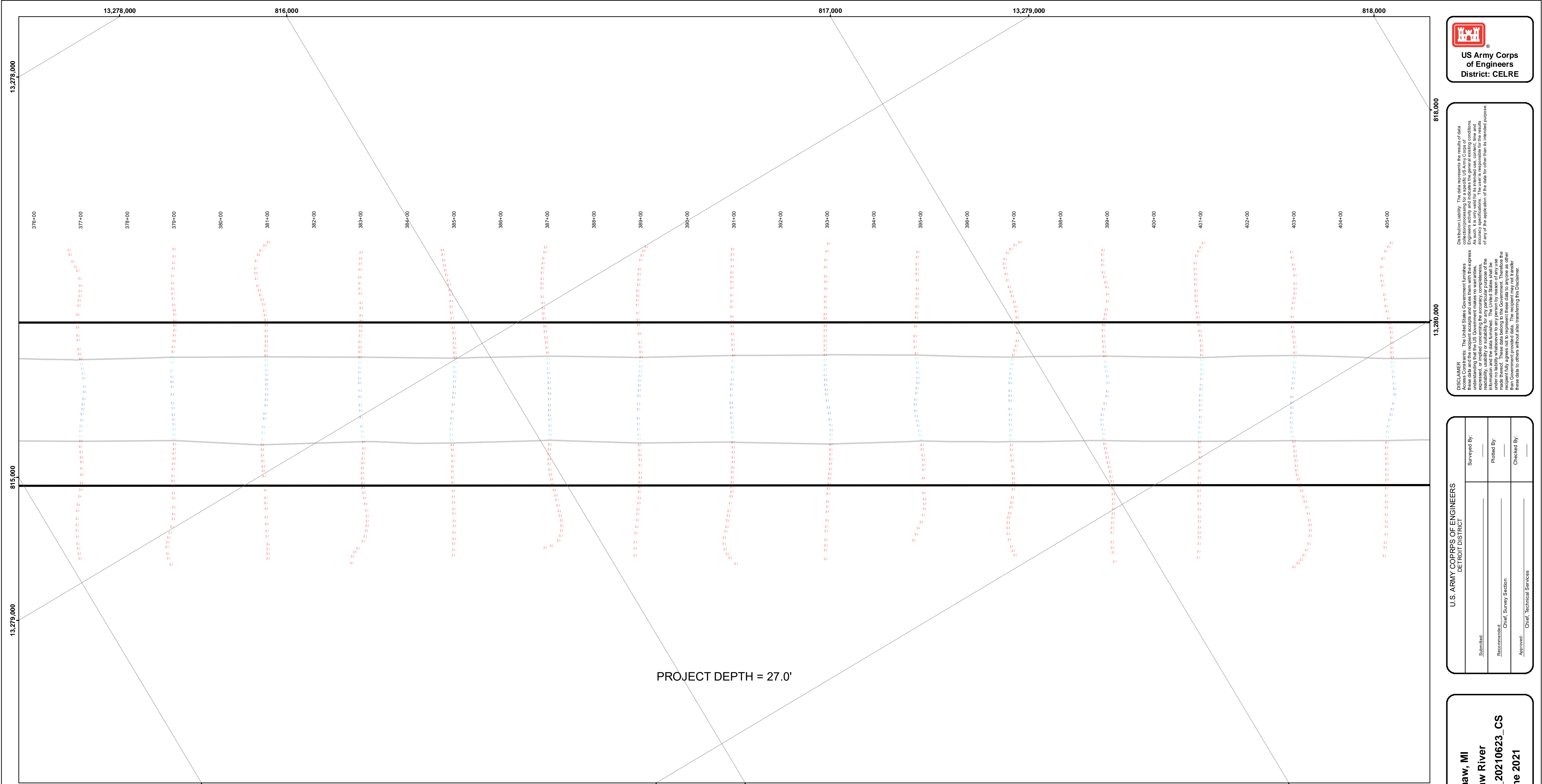
U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

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

Saginaw, MI
Saginaw River
SH_01_SAG_20210623_CS
23 June 2021

Sheet Reference Number
12 of 62





LEGEND

- Cable Submarine
- - Cable Overhead
- Placement Area
- Beacon, General
- Contour Lines
- Channel_Limits

SOUNDING LEGEND

- LESS THAN PROJECT DEPTH
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2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS ALL COORDINATES ARE IN U.S. SURVEY FEET.

US Army Corps of Engineers
District: CELRE

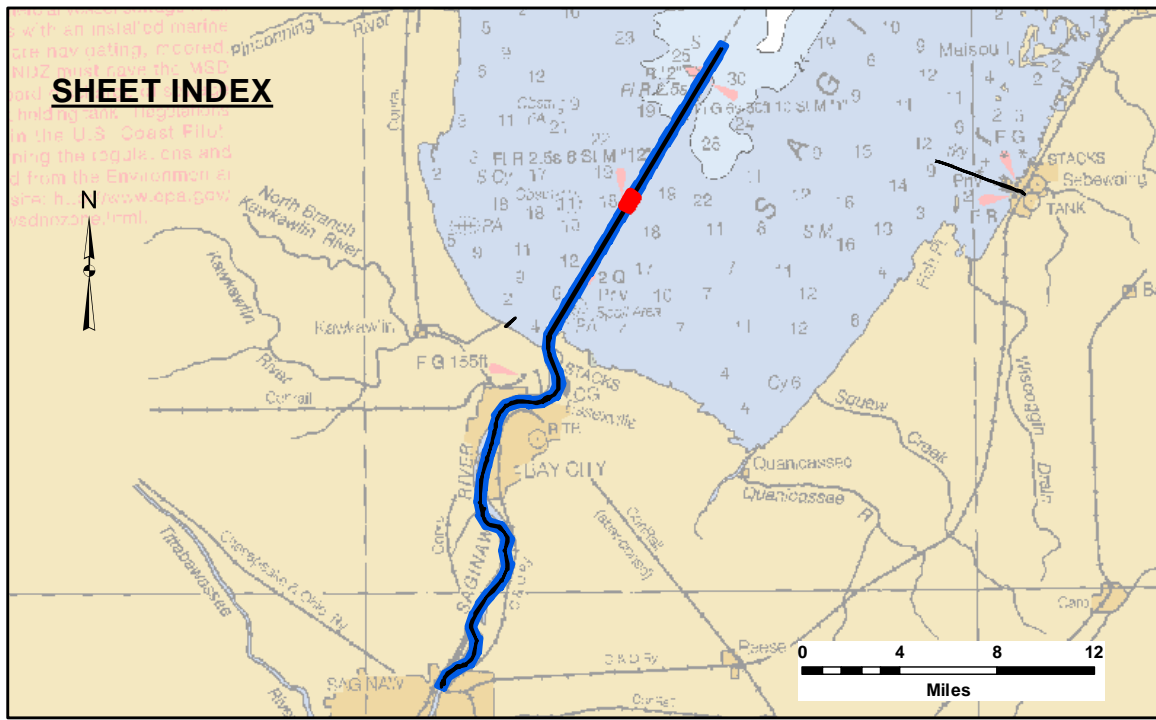
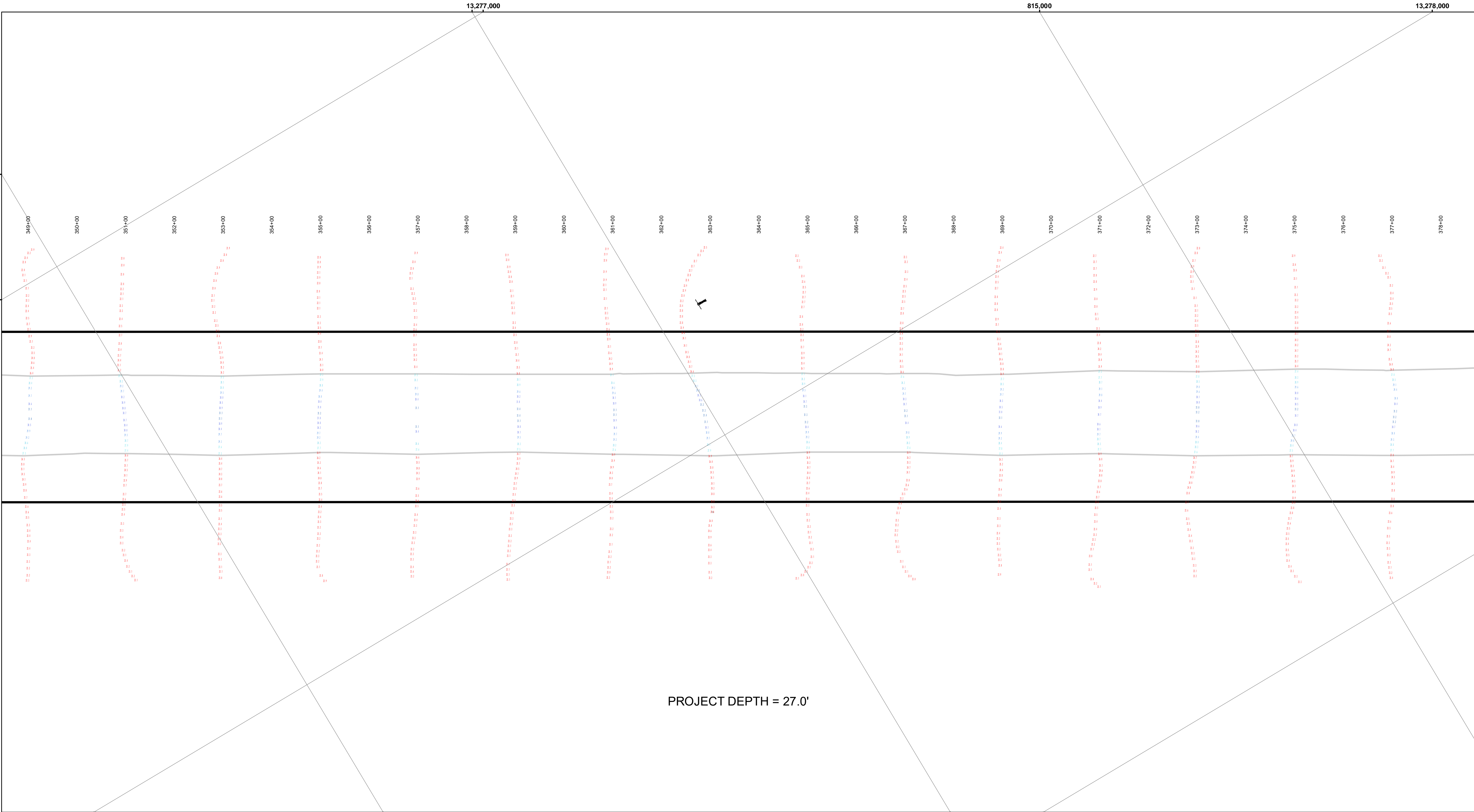
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Recommended: _____	Plotted By: _____
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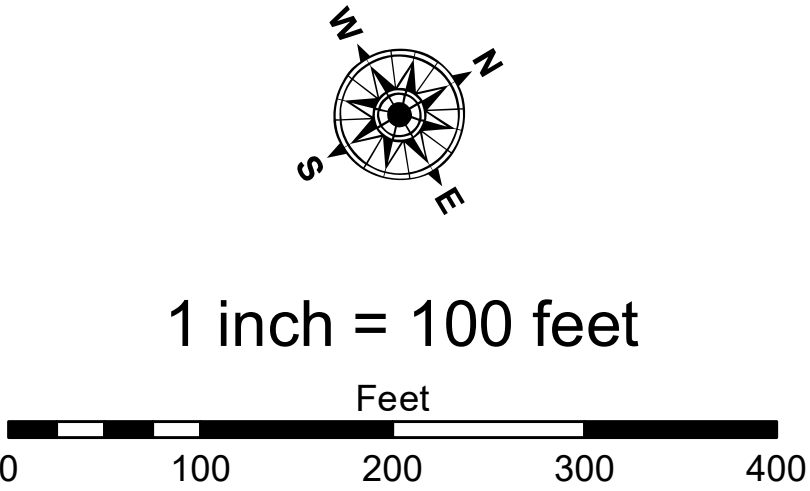
Saginaw, MI
Saginaw River
SH_01_SAG_20210623_CS
23 June 2021

Sheet Reference Number
14 of 62



- LEGEND**
- Cable Submarine
 - - Cable Overhead
 - Placement Area
 - └ Beacon, General
 - Contour Lines
 - ▭ Channel_Limits

- SOUNDING LEGEND**
- LESS THAN PROJECT DEPTH
 - PROJECT DEPTH
 - PROJECT DEPTH +1'
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 - PROJECT DEPTH +3'
 - PROJECT DEPTH +4'
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2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS ALL COORDINATES ARE IN U.S. SURVEY FEET.



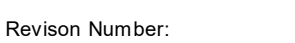
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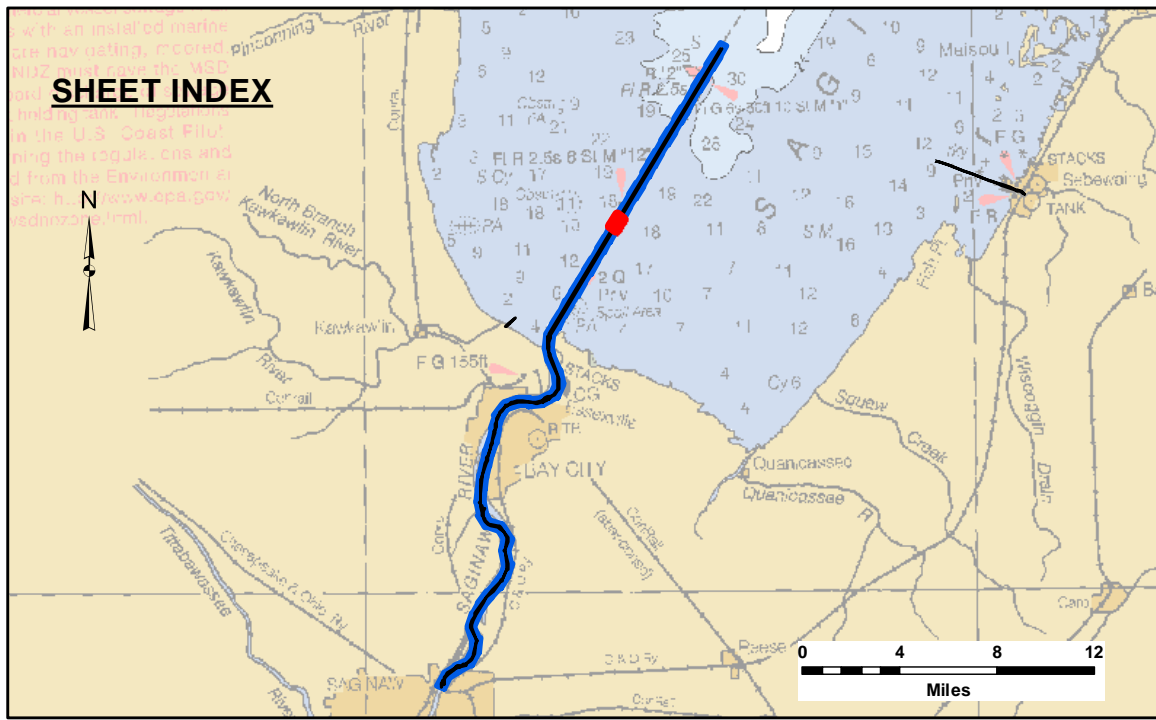
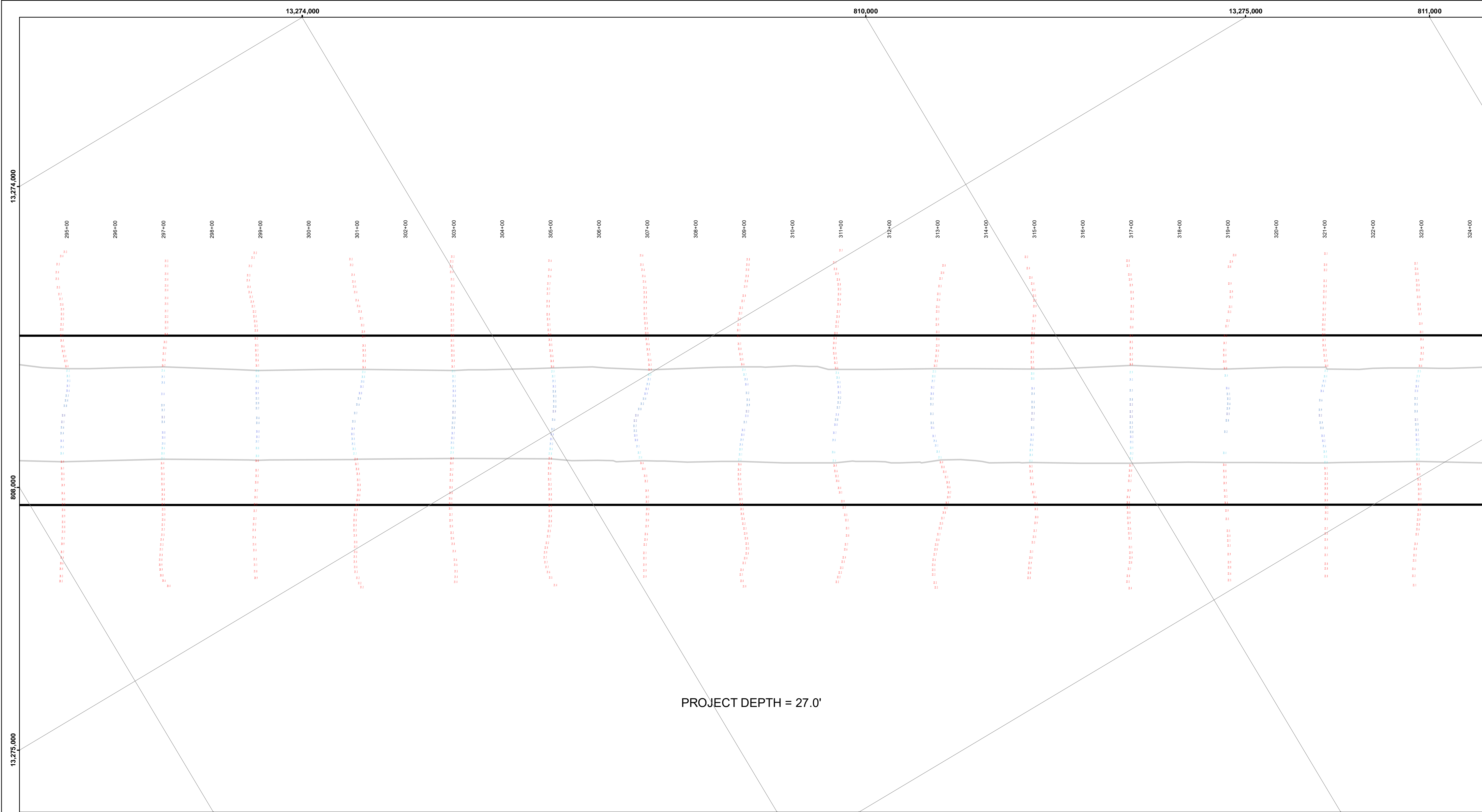
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Submitted:	Surveyed By:	
Recommended:	Plotted By:	
Chief, Survey Section		
Approved:	Checked By:	
Chief, Technical Services		

Saginaw, MI
Saginaw River
SH_01_SAG_20210623_CS
23 June 2021

Sheet Reference Number
15 of 62





LEGEND

- Cable Submarine
- - - Cable Overhead
- Placement Area
- Beacon, General
- Contour Lines
- Channel_Limits

SOUNDING LEGEND

- LESS THAN PROJECT DEPTH
- PROJECT DEPTH
- PROJECT DEPTH +1'
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Feet

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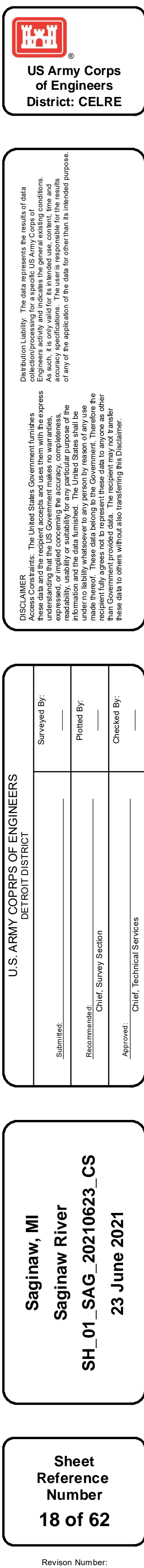
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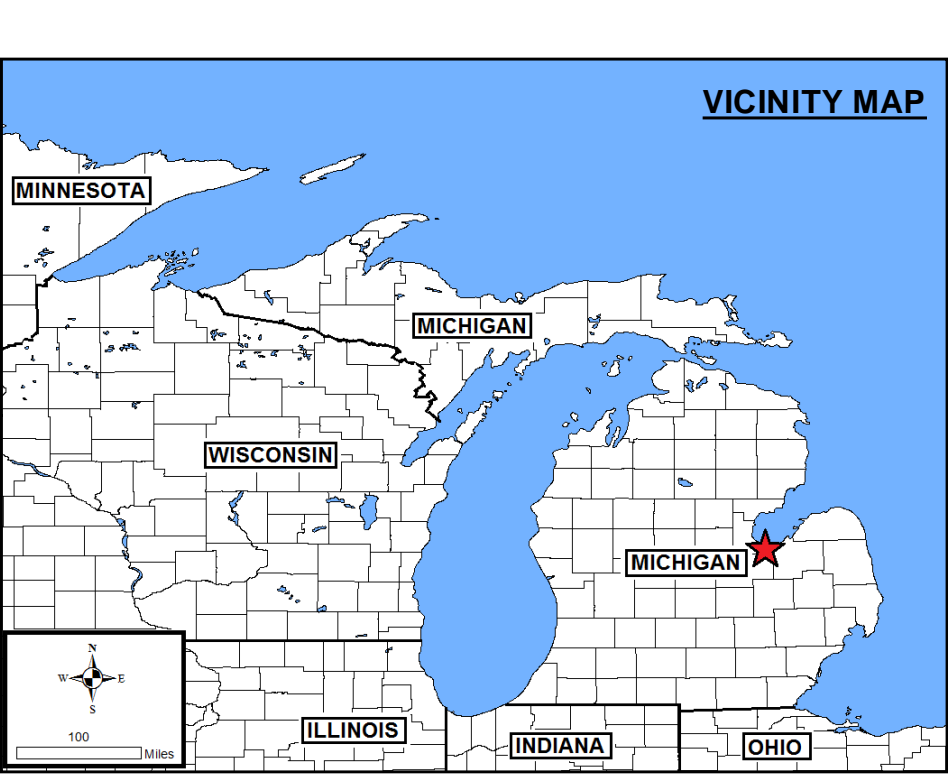
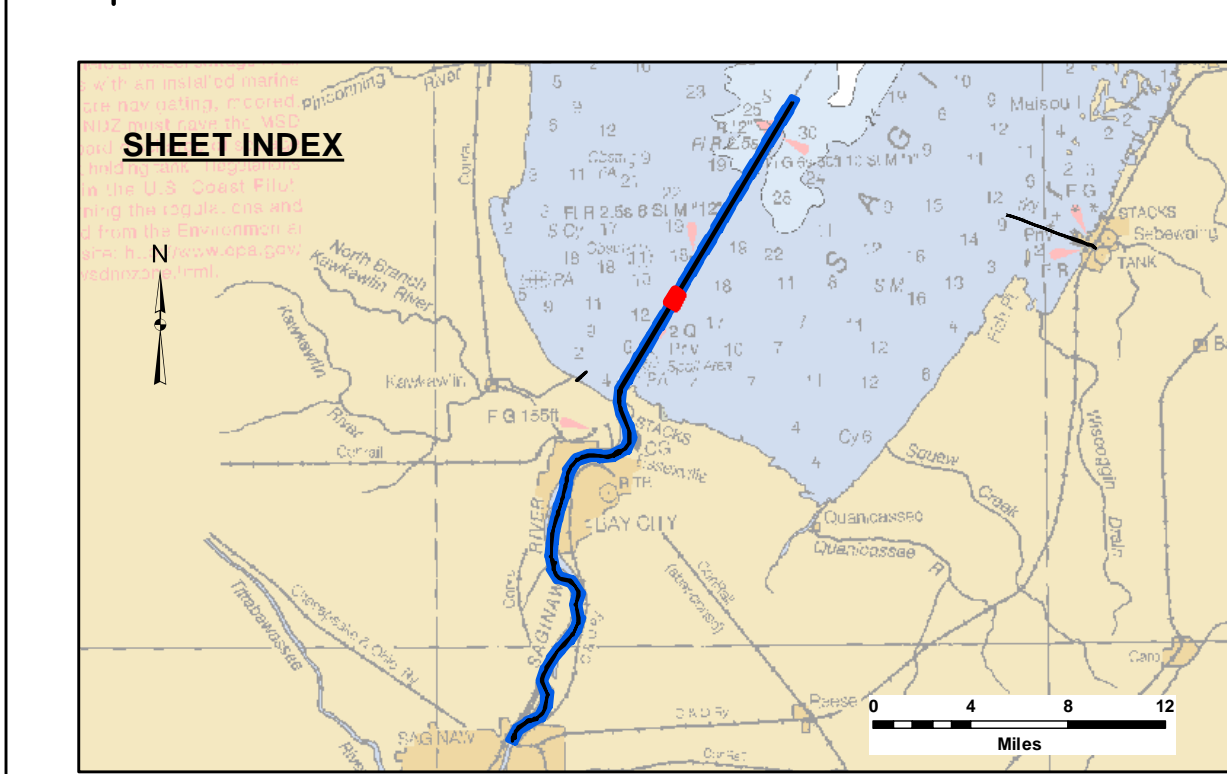
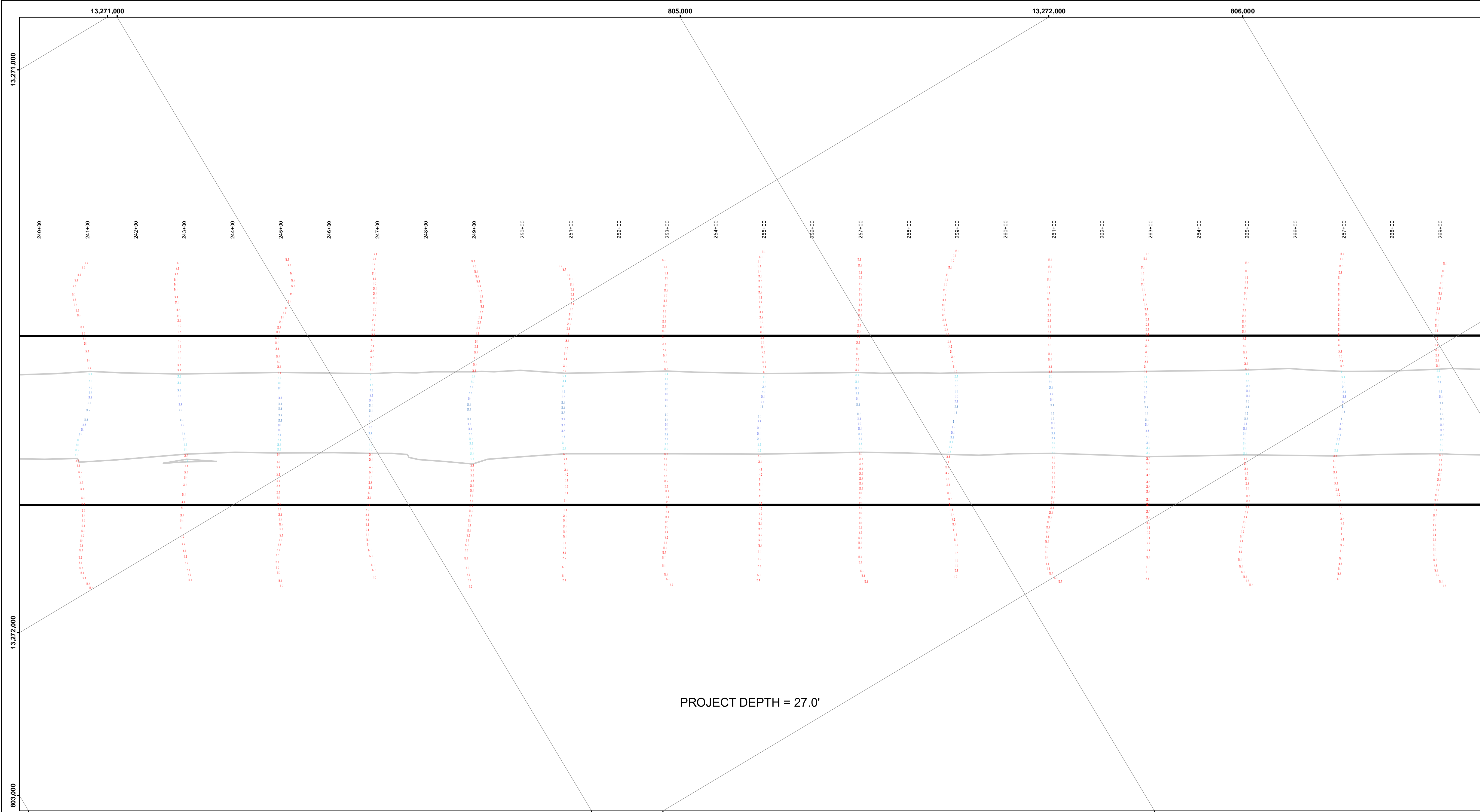
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U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT		
Submitted:	Surveyed By:	
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Approved:	Checked By:	

Saginaw, MI
Saginaw River
SH_01_SAG_20210623_CS
23 June 2021

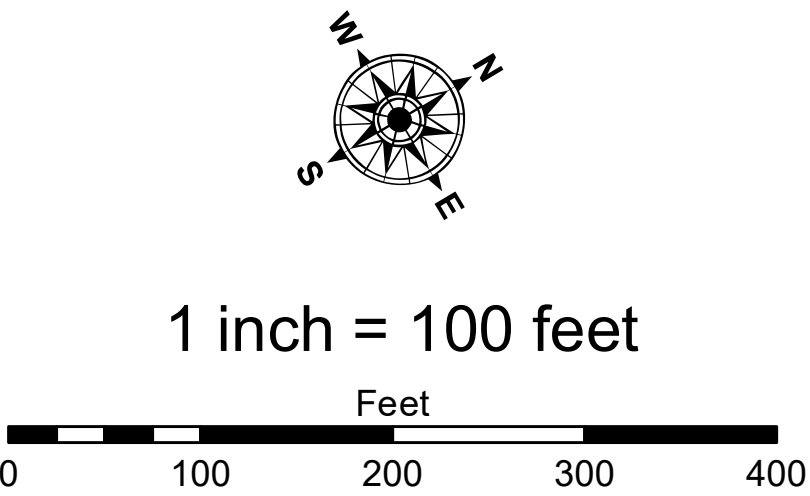
Sheet Reference Number
17 of 62





- LEGEND**
- Cable Submarine
 - - Cable Overhead
 - Placement Area
 - Beacon, General
 - Contour Lines
 - Channel_Limits

- SOUNDING LEGEND**
- LESS THAN PROJECT DEPTH
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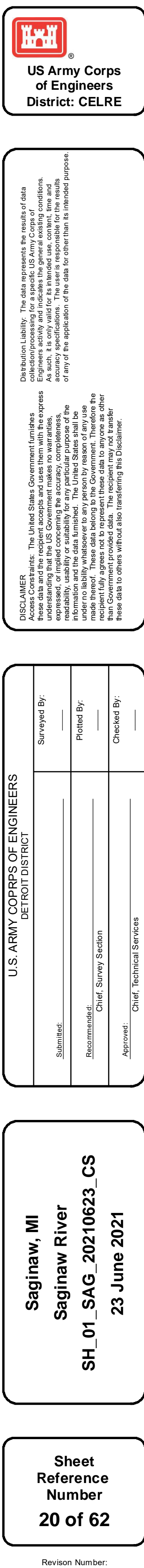
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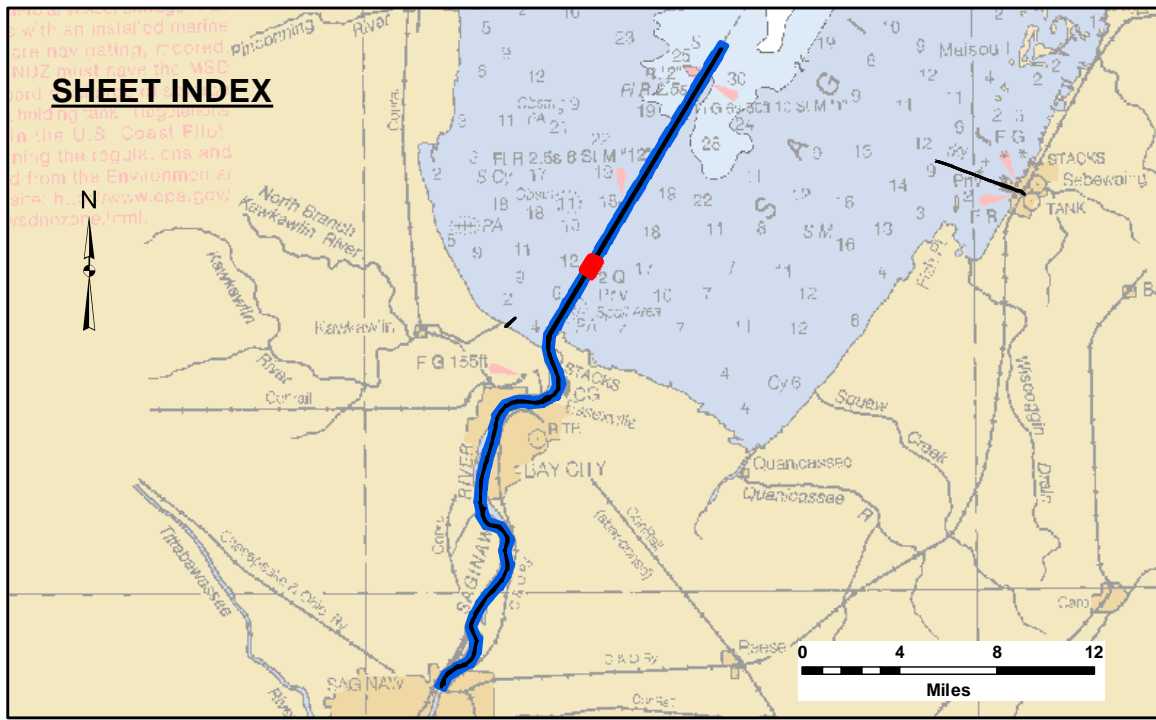
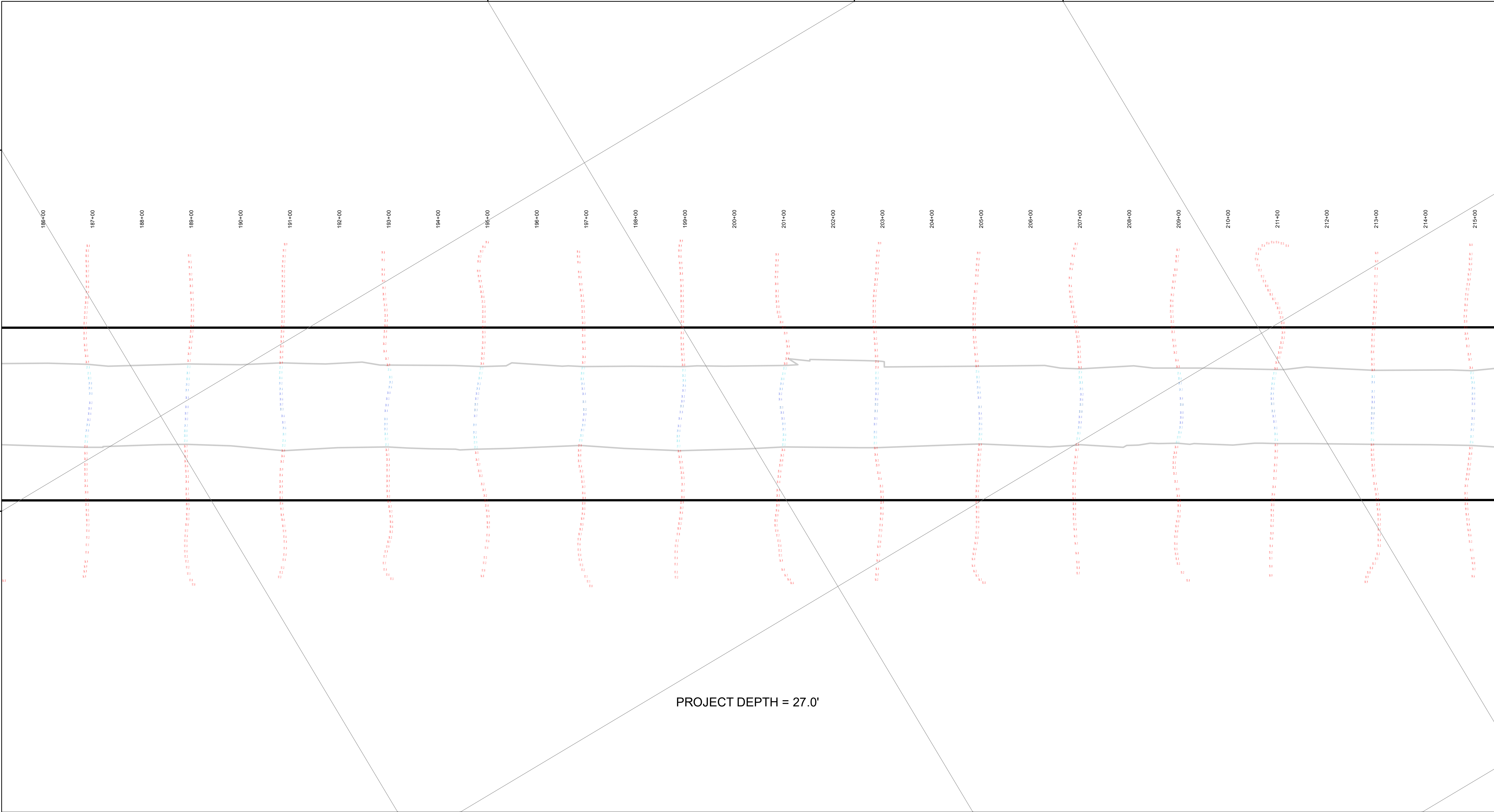
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Submitted:	Surveyed By:	
Recommended:	Plotted By:	
Approved:	Checked By:	

Saginaw, MI
Saginaw River
SH_01_SAG_20210623_CS
23 June 2021

Sheet
Reference
Number
19 of 62

Revision Number:
4.2-202106/4/20





LEGEND

- Cable Submarine
- - - Cable Overhead
- Placement Area
- Beacon, General
- Contour Lines
- Channel_Limits

SOUNDING LEGEND

- LESS THAN PROJECT DEPTH
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SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)
SOFTWARE: HYPACK

2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS
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US Army Corps of Engineers
District: CELRE

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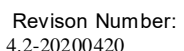
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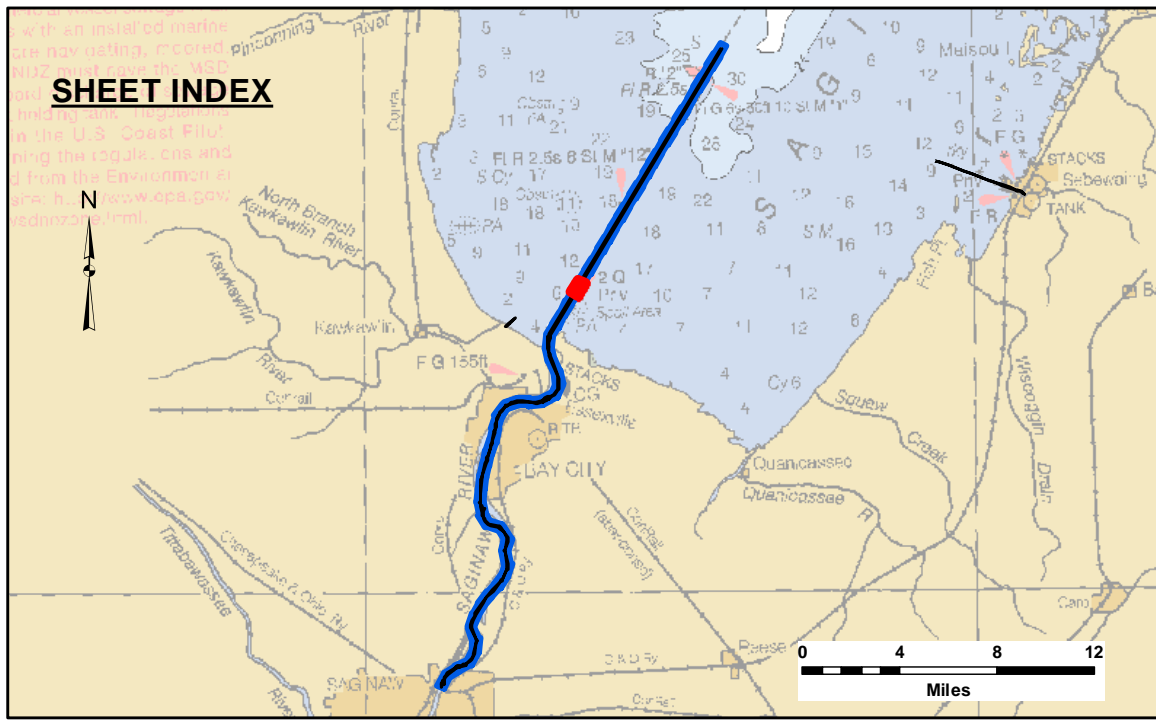
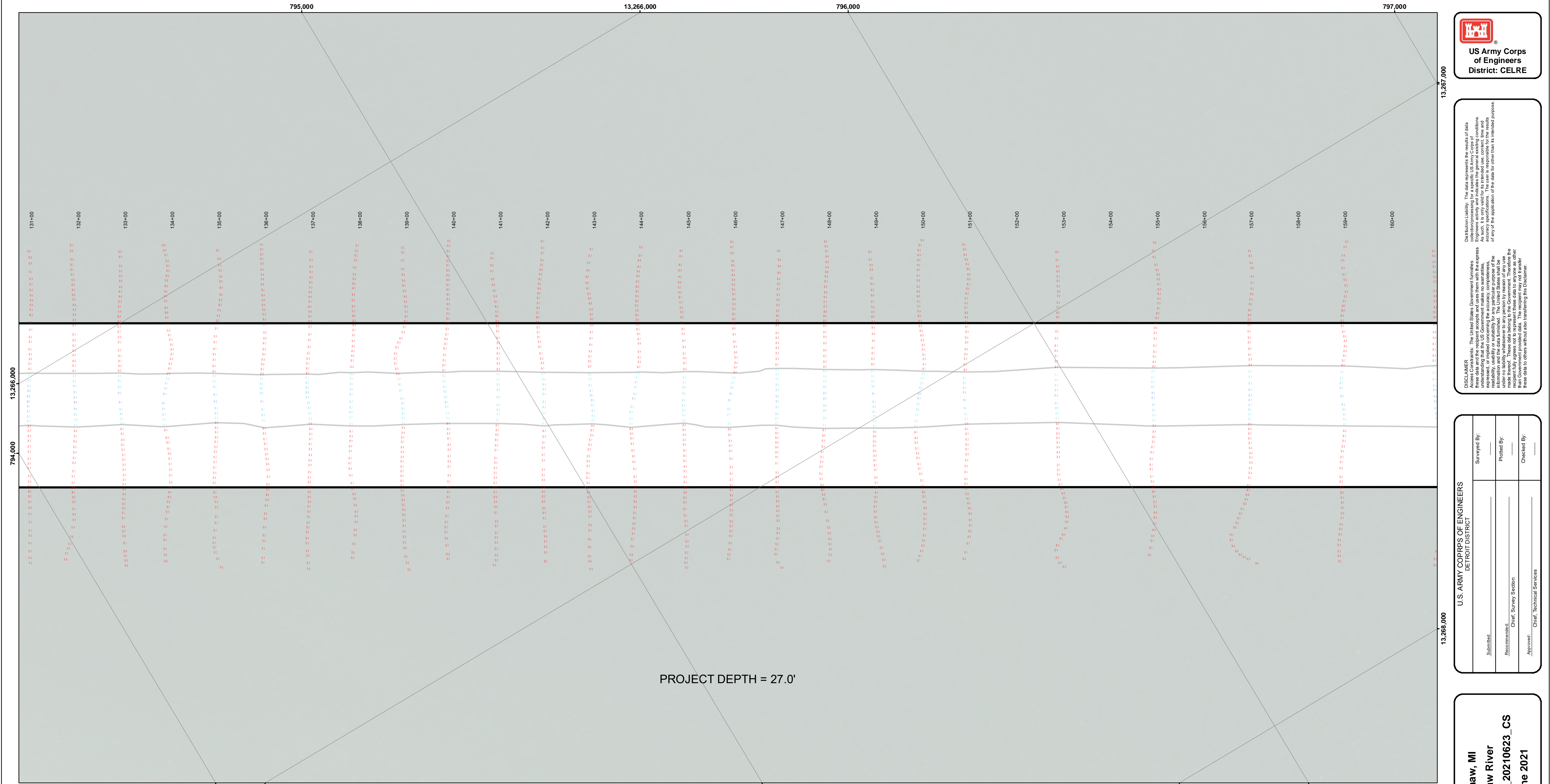
U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

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

Saginaw, MI
Saginaw River
SH_01_SAG_20210623_CS
23 June 2021

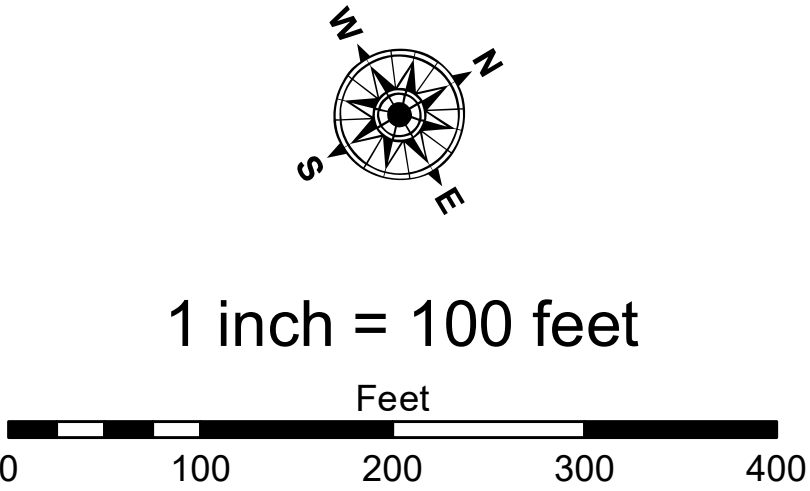
Sheet Reference Number
21 of 62





- LEGEND**
- Cable Submarine
 - - - Cable Overhead
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- SOUNDING LEGEND**
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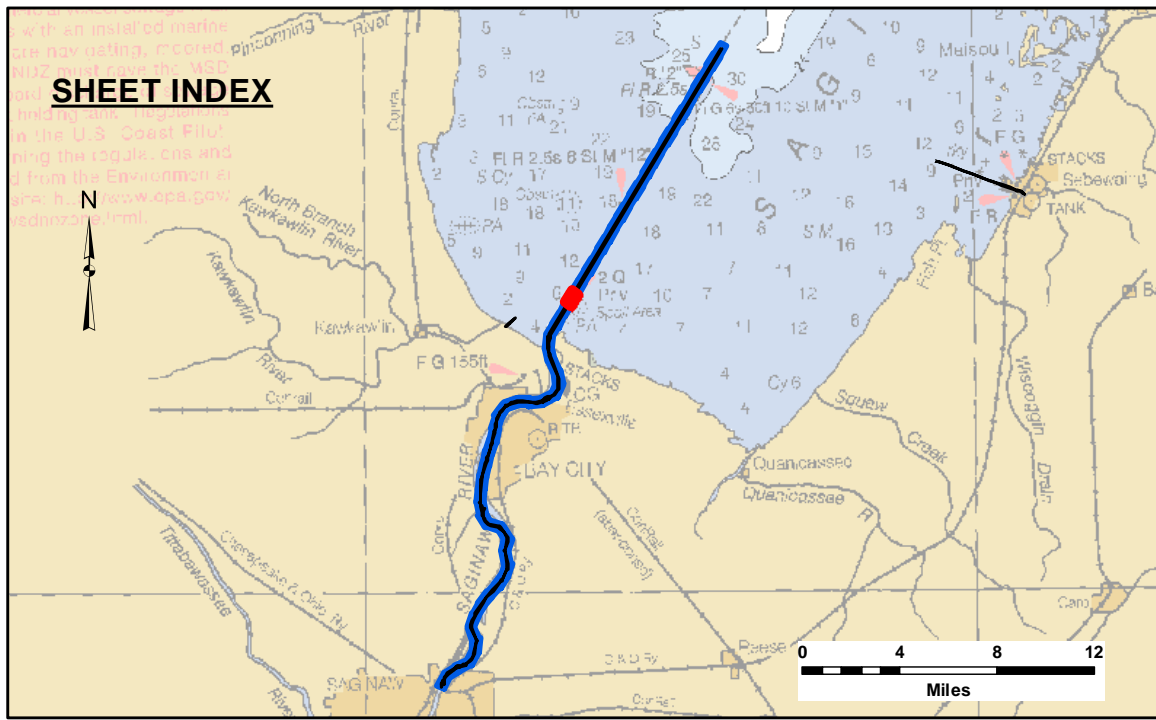
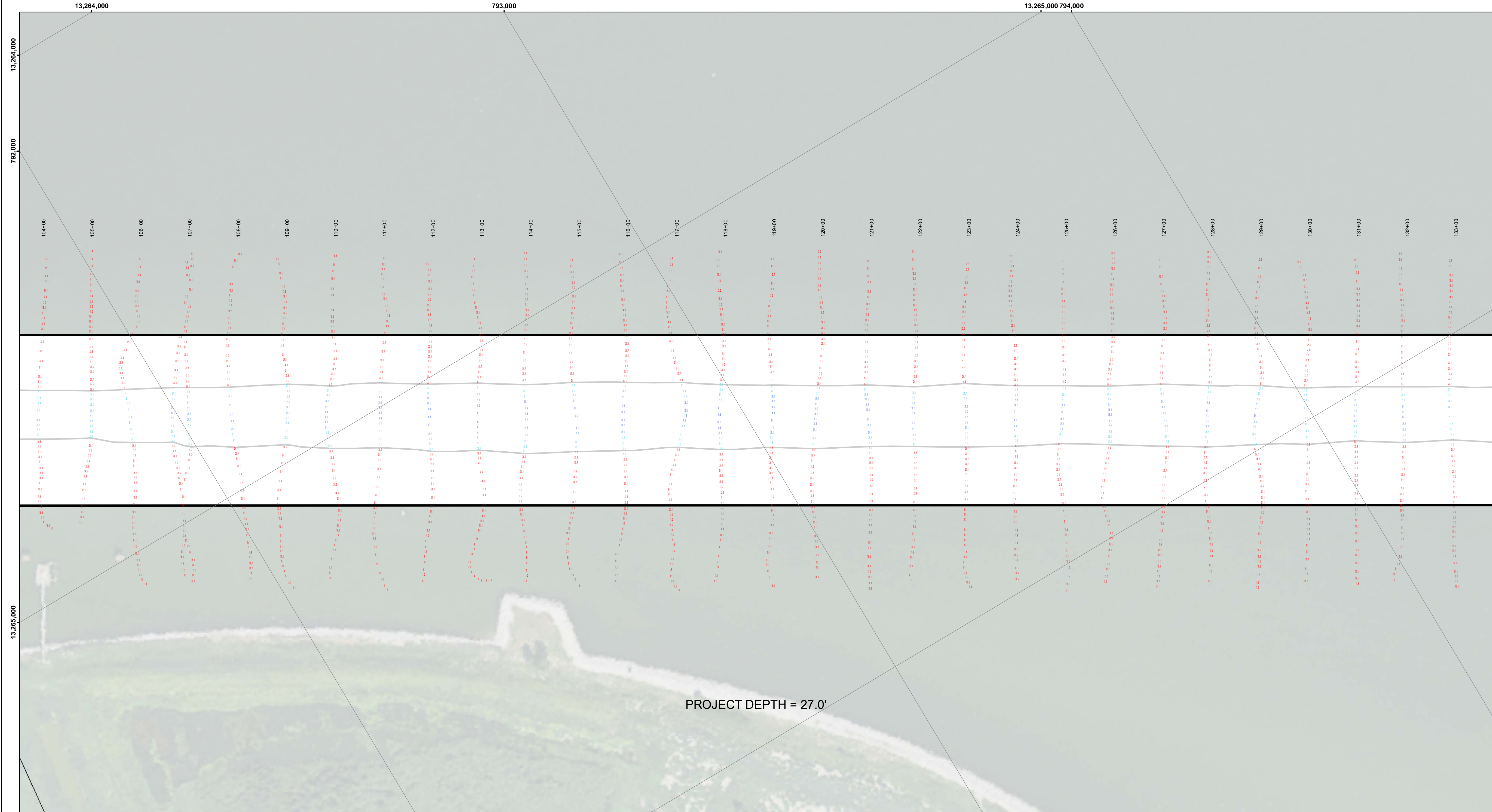
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	Submitted:
	Recommended: Chief, Survey Section
	Checked By:

Saginaw, MI
Saginaw River
SH_01_SAG_20210623_CS
23 June 2021

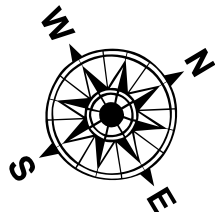
Sheet
Reference
Number
23 of 62

Revision Number:
4.2 20210613

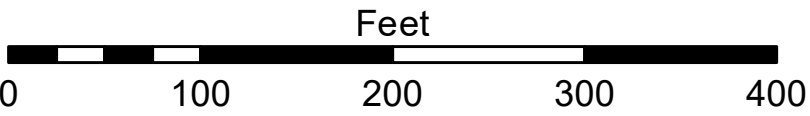


- LEGEND**
- Cable Submarine
 - - - Cable Overhead
 - Placement Area
 - └ Beacon, General
 - Contour Lines
 - ▭ Channel_Limits

- 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



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POSITIONING: APPLANIX POS-MV4 W/ VRS/RTK OR MARINESTAR GNSS.
MOTION COMPENSATION: APPLANIX POS-MV4
SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)
SOFTWARE: HYPACK

2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS
ALL COORDINATES ARE IN U.S. SURVEY FEET.



**US Army Corps
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District: CELRE

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DETROIT DISTRICT

Submitted:

Reviewed By:

Plotted By:

Checked By:

Saginaw, MI

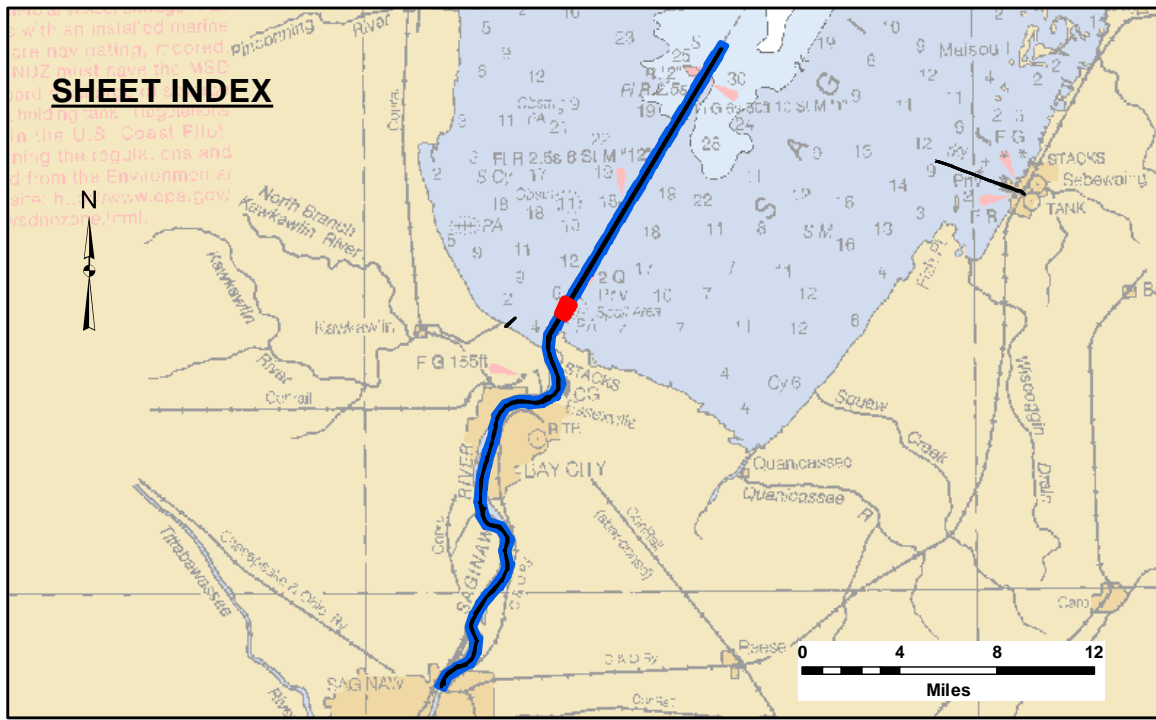
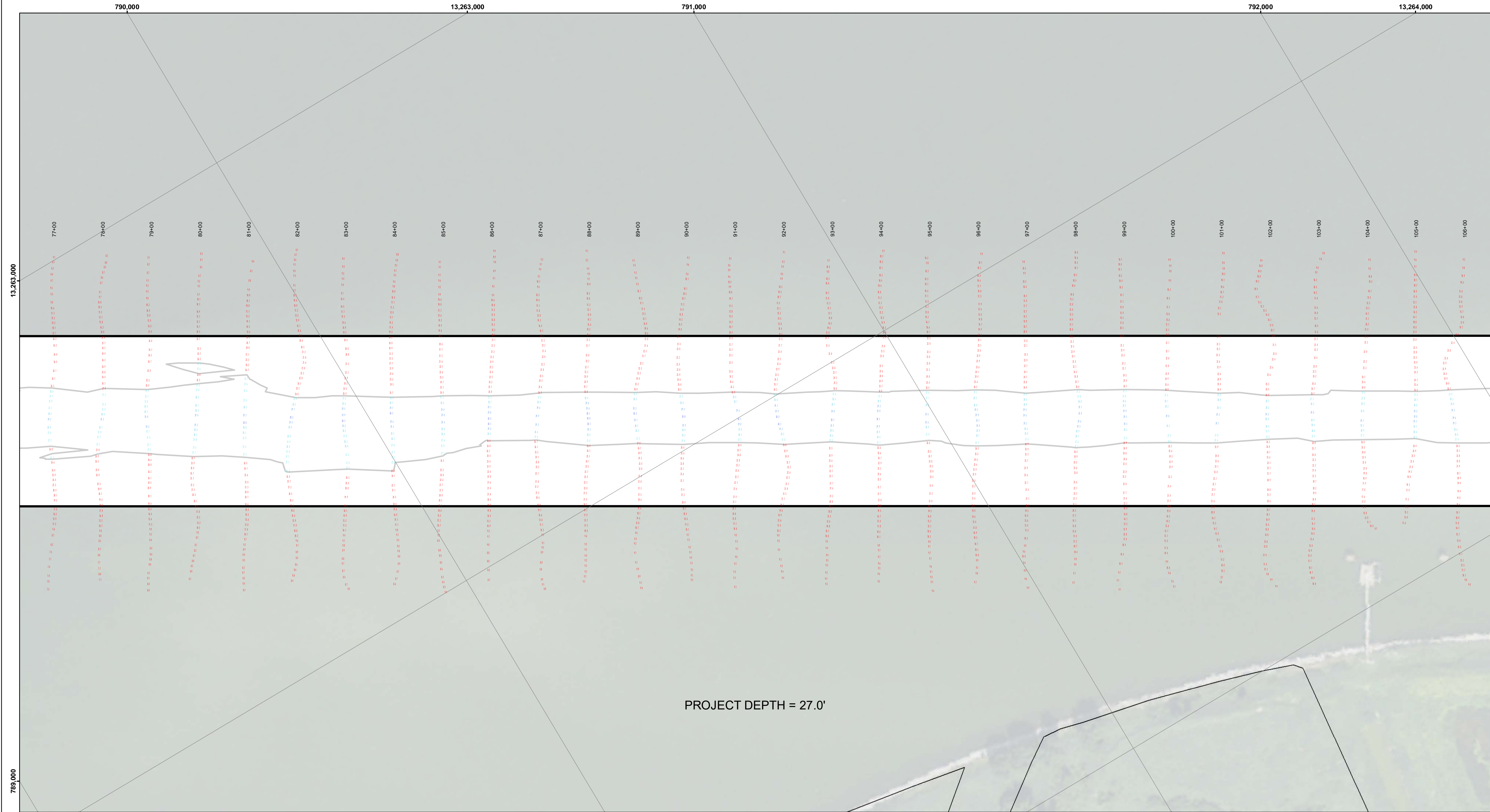
Saginaw River

SH_01_SAG_20210623_CS

23 June 2021

**Sheet
Reference
Number**
24 of 62

Revision Number:
4.2-2021061420



LEGEND

- Cable Submarine
- - - Cable Overhead
- Placement Area
- ⊥ Beacon, General
- Contour Lines
- ▭ Channel_Limits

SOUNDING LEGEND

- LESS THAN PROJECT DEPTH
- PROJECT DEPTH
- PROJECT DEPTH +1'
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- PROJECT DEPTH +4'
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Feet

0 100 200 300 400

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POSITIONING: APPLANIX POS-MV4 W/ VRS/IRTK OR MARINESTAR GNSS. MOTION COMPENSATION: APPLANIX POS-MV4 SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM) SOFTWARE: HYPACK

2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS ALL COORDINATES ARE IN U.S. SURVEY FEET.


US Army Corps of Engineers
District: CELRE

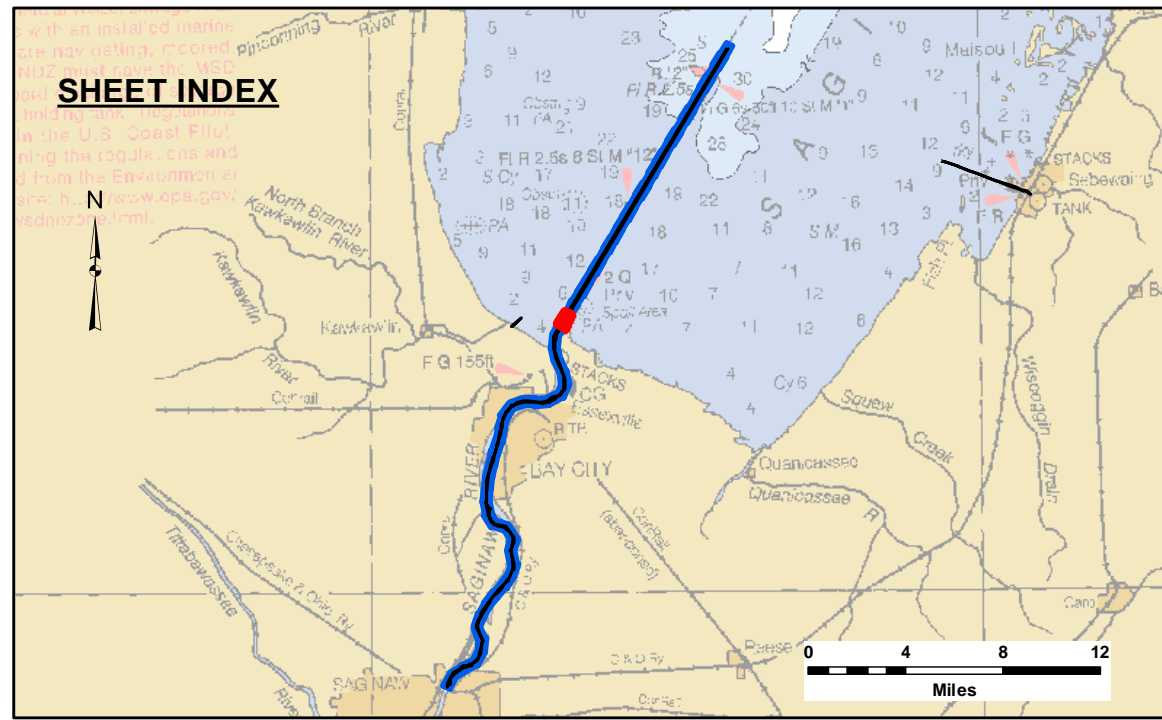
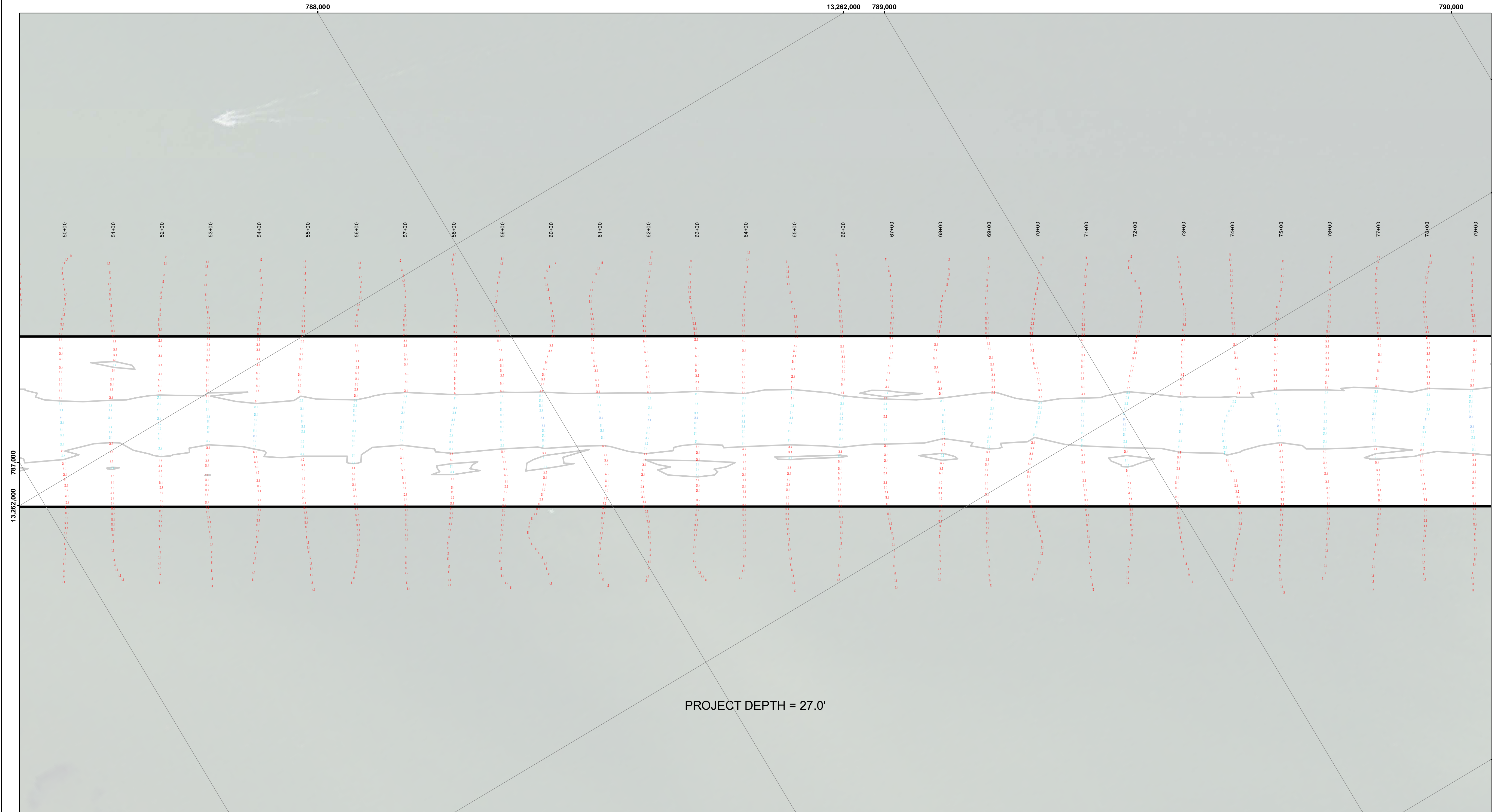
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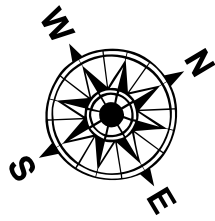
Saginaw, MI
Saginaw River
SH_01_SAG_20210623_CS
23 June 2021

Sheet Reference Number
25 of 62

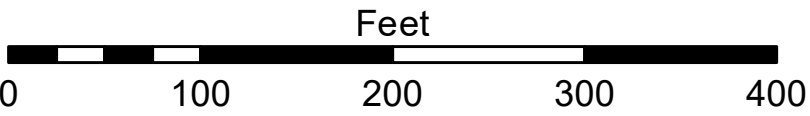


- LEGEND**
- Cable Submarine
 - - Cable Overhead
 - Placement Area
 - Beacon, General
 - Contour Lines
 - Channel_Limits

- SOUNDING LEGEND**
- LESS THAN PROJECT DEPTH
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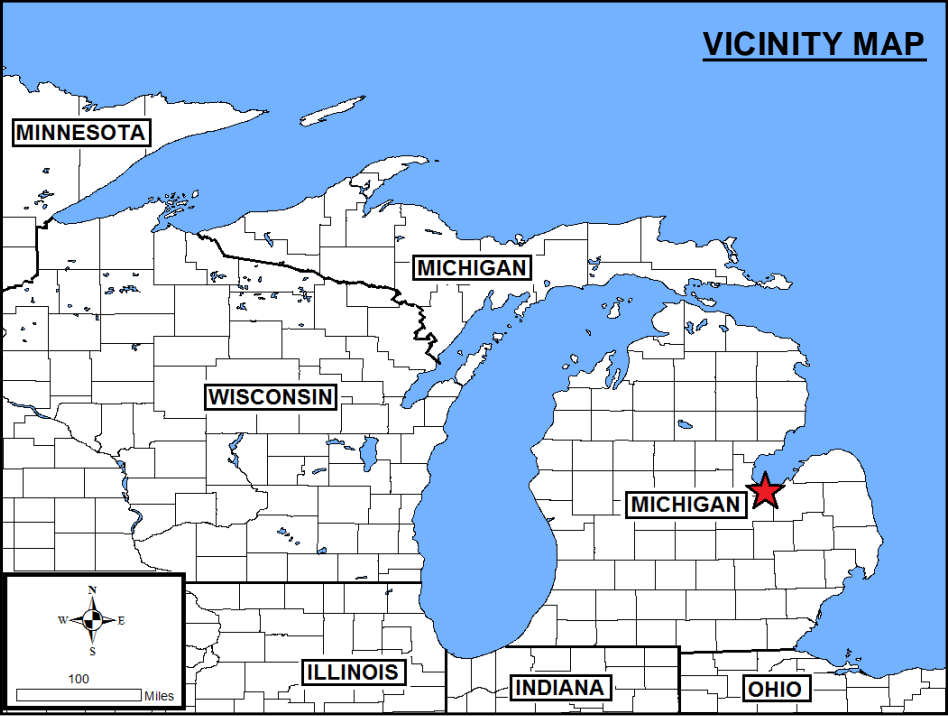
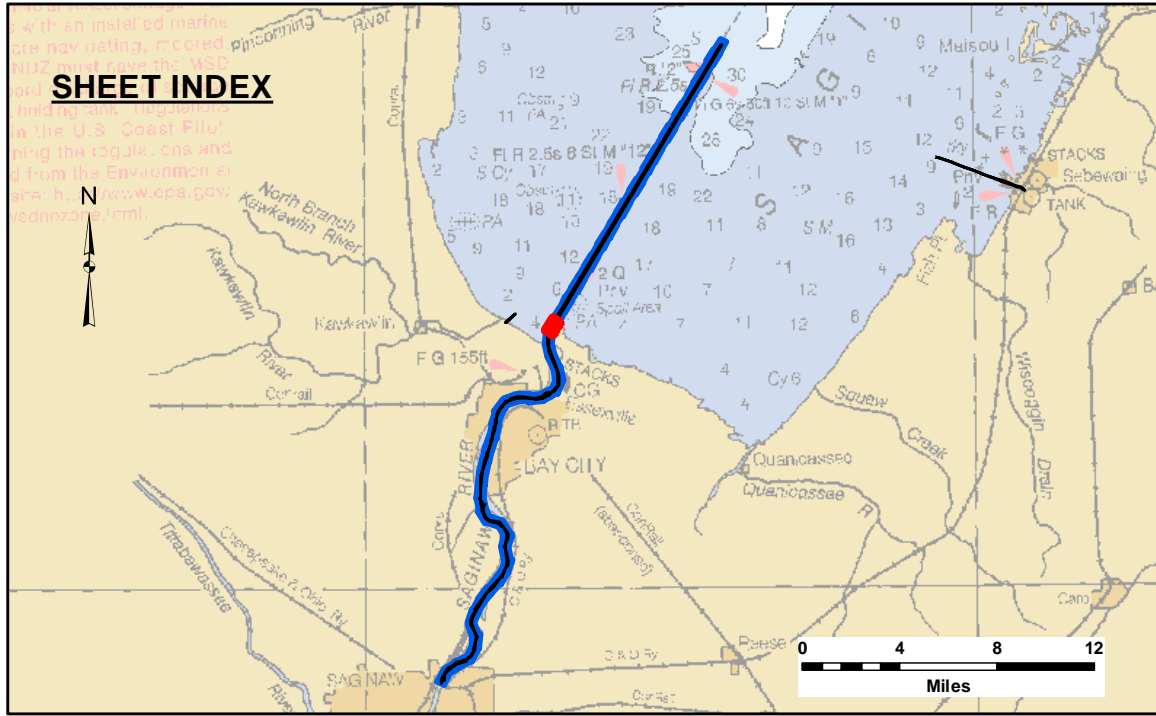
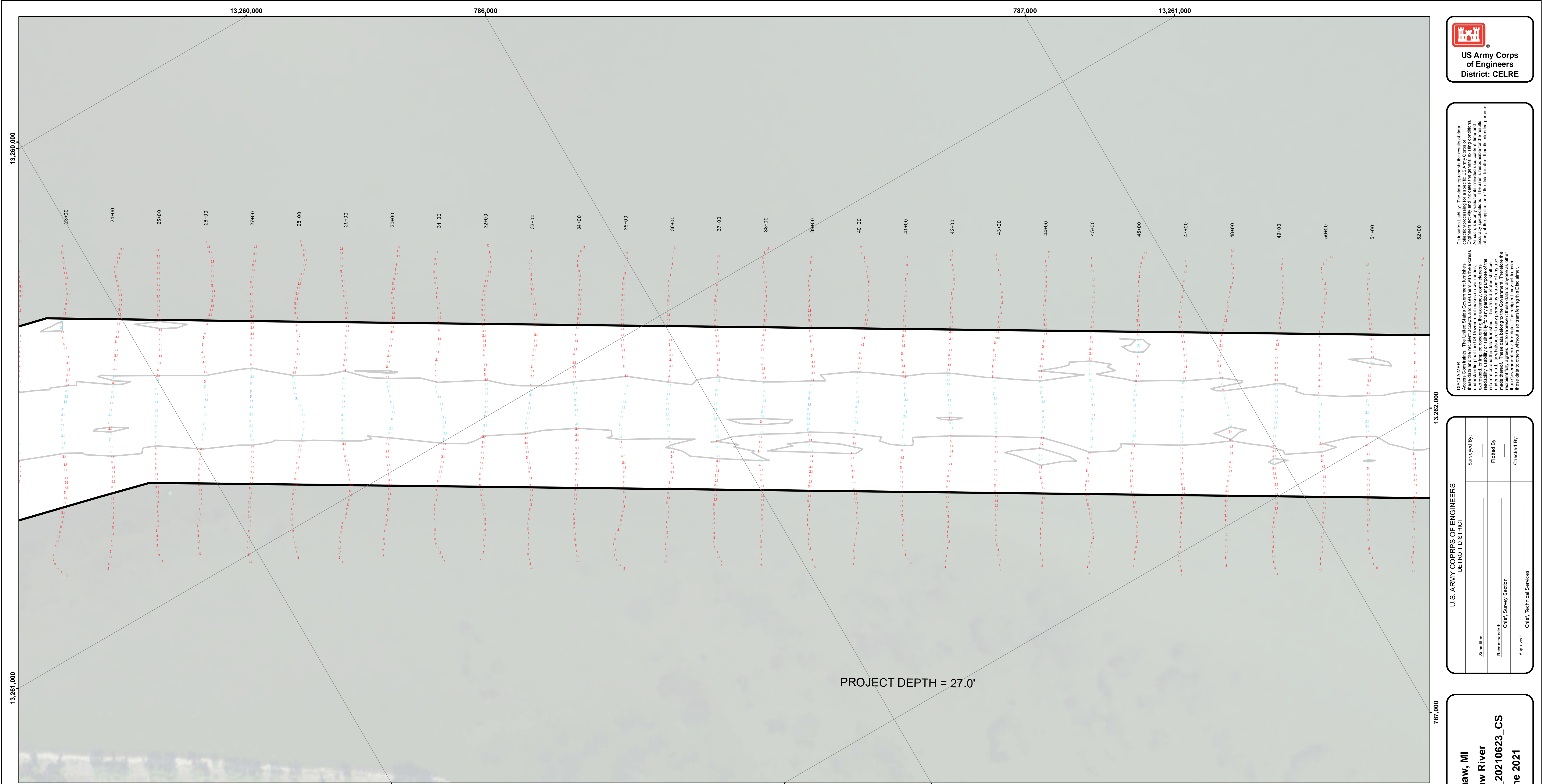
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U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT	Surveyed By:
	Plotted By:
	Checked By:

Saginaw, MI
Saginaw River
SH_01_SAG_20210623_CS
23 June 2021

Sheet Reference Number 26 of 62
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Revision Number:
4.2-20210623



LEGEND

- Cable Submarine
- - - Cable Overhead
- Placement Area
- Beacon, General
- Contour Lines
- Channel_Limits

SOUNDING LEGEND

- LESS THAN PROJECT DEPTH
- PROJECT DEPTH
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SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)

SOFTWARE: HYPACK

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Saginaw, MI

Saginaw River

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27 of 62

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US Army Corps of Engineers
District: CELRE

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U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

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

Saginaw, MI

Saginaw River

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Sheet Reference Number

27 of 62

