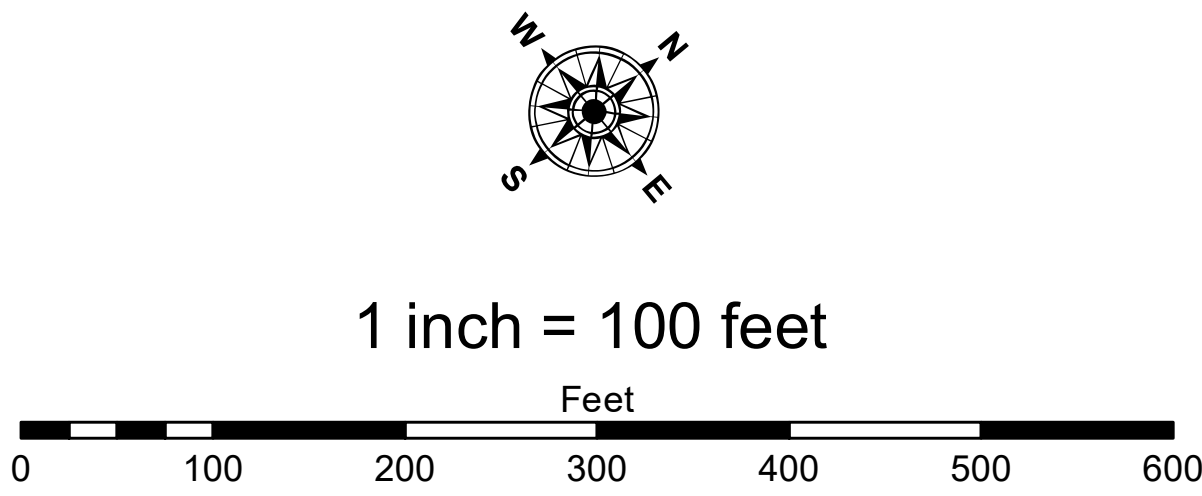


- LEGEND**
- ..... Cable Submarine
  - - Cable Overhead
  - Placement Area
  - Beacon, General
  - Contour Lines
  - Channel Limits

- SOUNDING LEGEND**
- LESS THAN PROJECT DEPTH
  - PROJECT DEPTH
  - PROJECT DEPTH +1'
  - PROJECT DEPTH +2'
  - PROJECT DEPTH +3'
  - PROJECT DEPTH +4'
  - PROJECT DEPTH +5'



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FOR MULTIBEAM SURVEYS:  
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HORIZONTAL GRID DATUM BASED ON MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, SOUTH ZONE (2113), NORTH AMERICAN DATUM 1983, U.S. SURVEY FOOT.

ALL SOUNDINGS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD85). PROJECT DEPTH FOR THE SOUTHEAST BEND CHANNEL = 27.1'

TIDE VALUES ARE DERIVED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) WATER LEVEL STATIONS:

ALGONAC, MI (#9014070)  
ST. CLAIR SHORES, MI (#9034092)  
TEMPORARY GAGE BOARDS SET ALONG SOUTHEAST BEND CHANNEL

POSITIONING: APPLANIX POS-MV4 W/ VR6/RTK OR MARINESTAR GNSS  
MOTION COMPENSATION: APPLANIX POS-MV4  
SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)  
SOFTWARE: HYPACK



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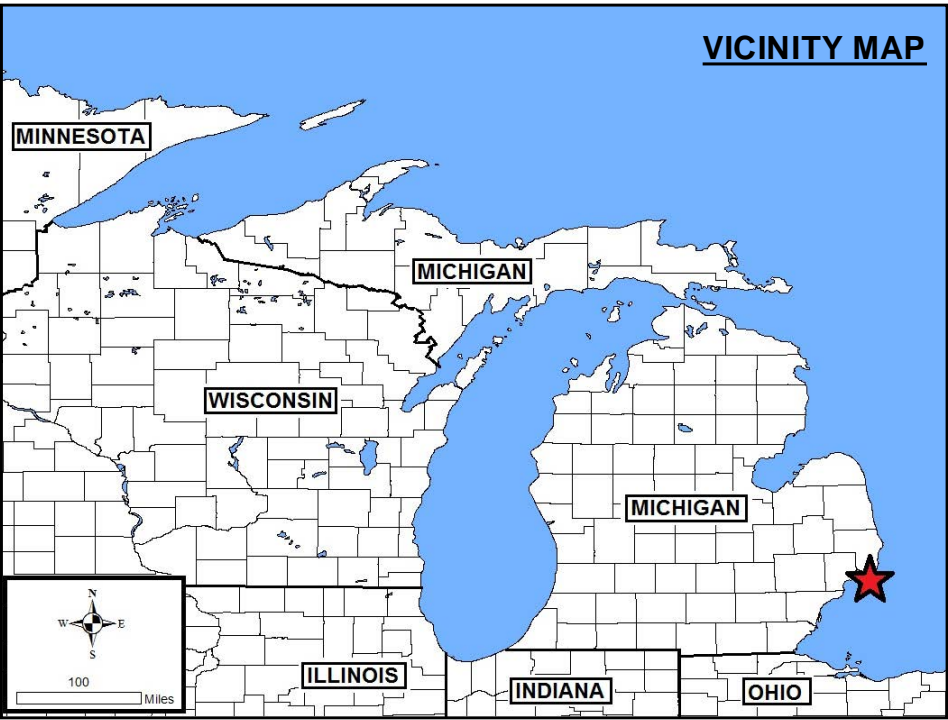
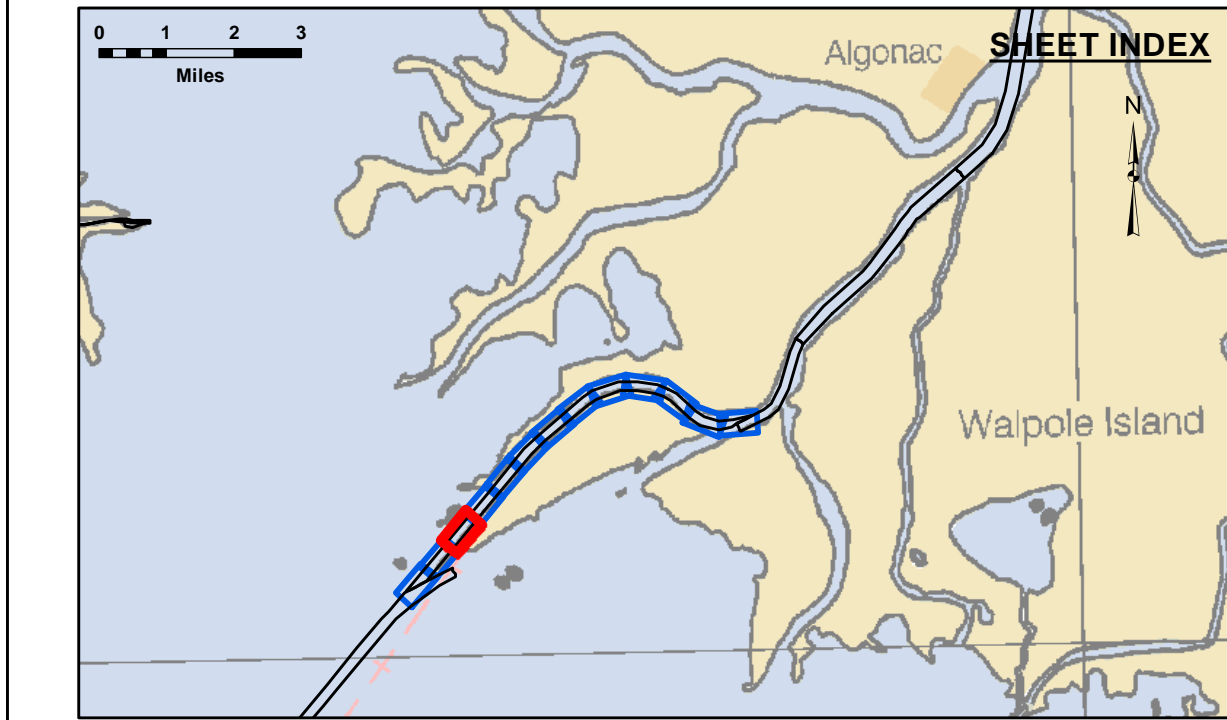
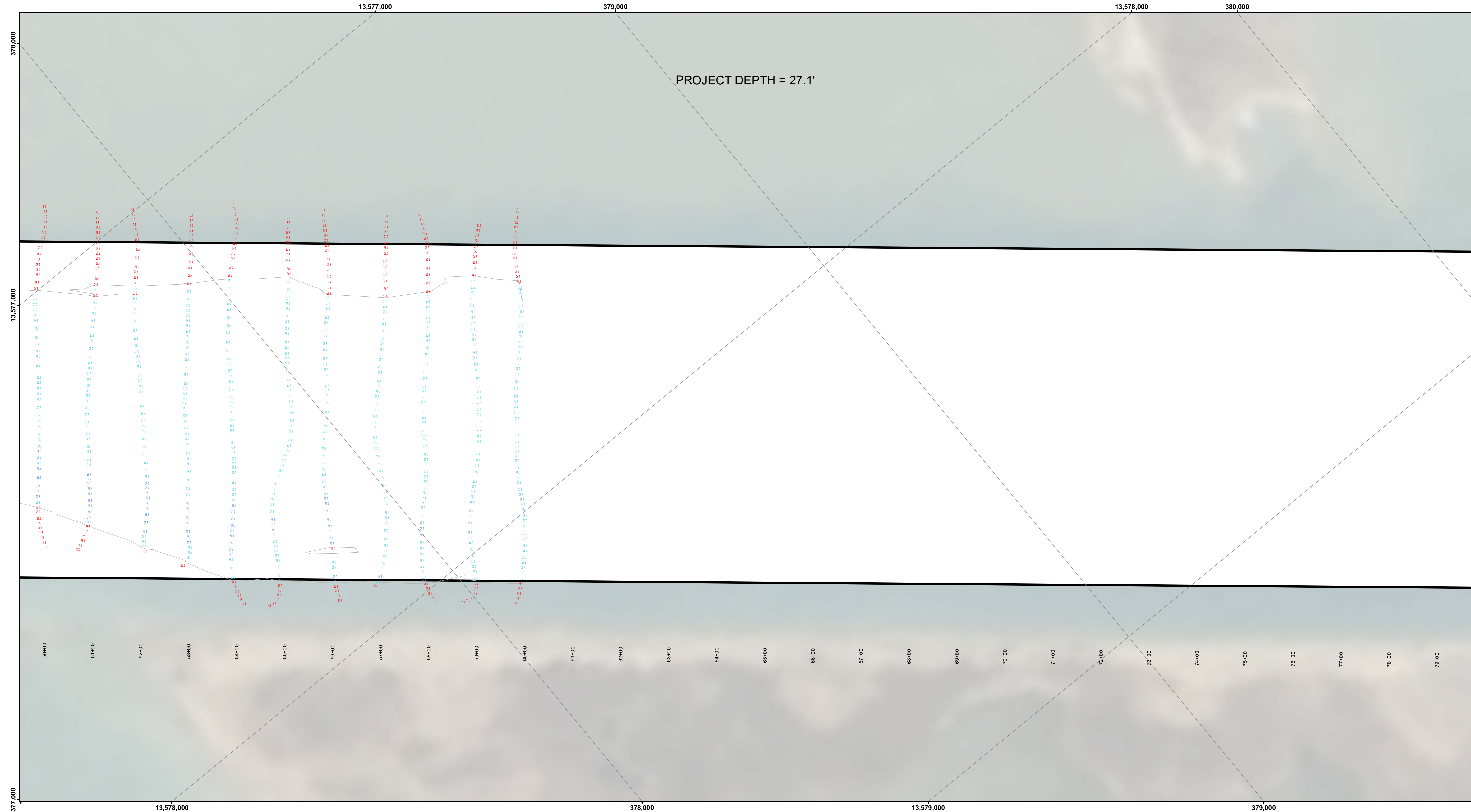
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Submitted:	Surveyed By:
	Plotted By:
	Checked By:
Recommended:	
Approved:	

St. Clair River, MI  
Old Southeast Bend  
SE\_01\_BND\_20201125\_CS  
25 November 2020

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**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

W N E S

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MOTION COMPENSATION: APPLANIX POS-MV4  
SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)  
SOFTWARE: HYPACK

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

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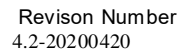
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Submitted: _____	Surveyed By: _____
Recommended: _____	Plotted By: _____
Approved: _____	Checked By: _____

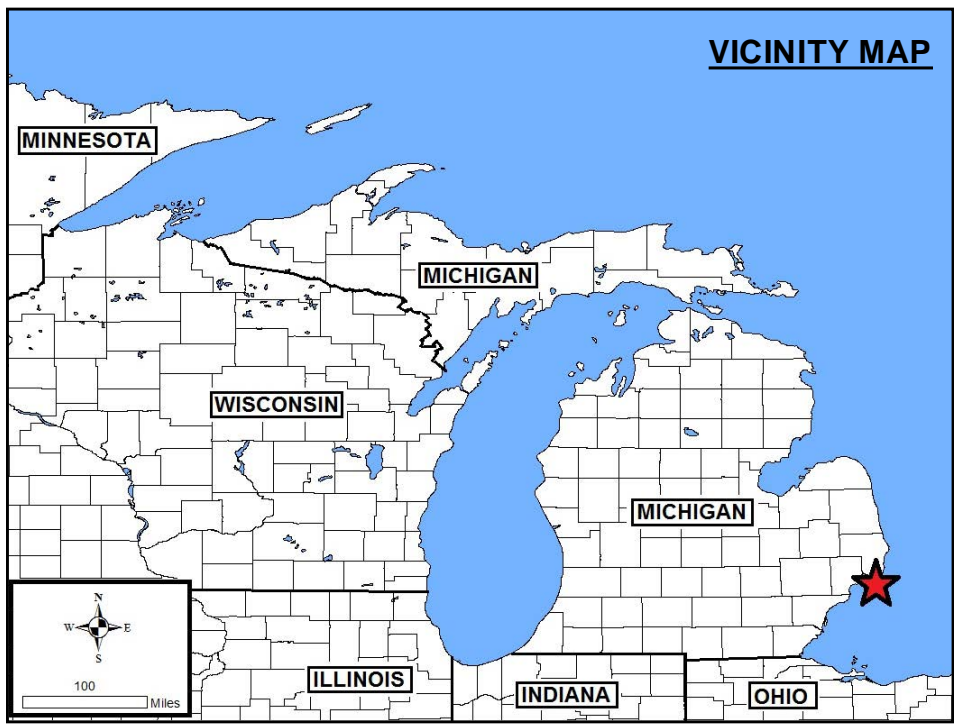
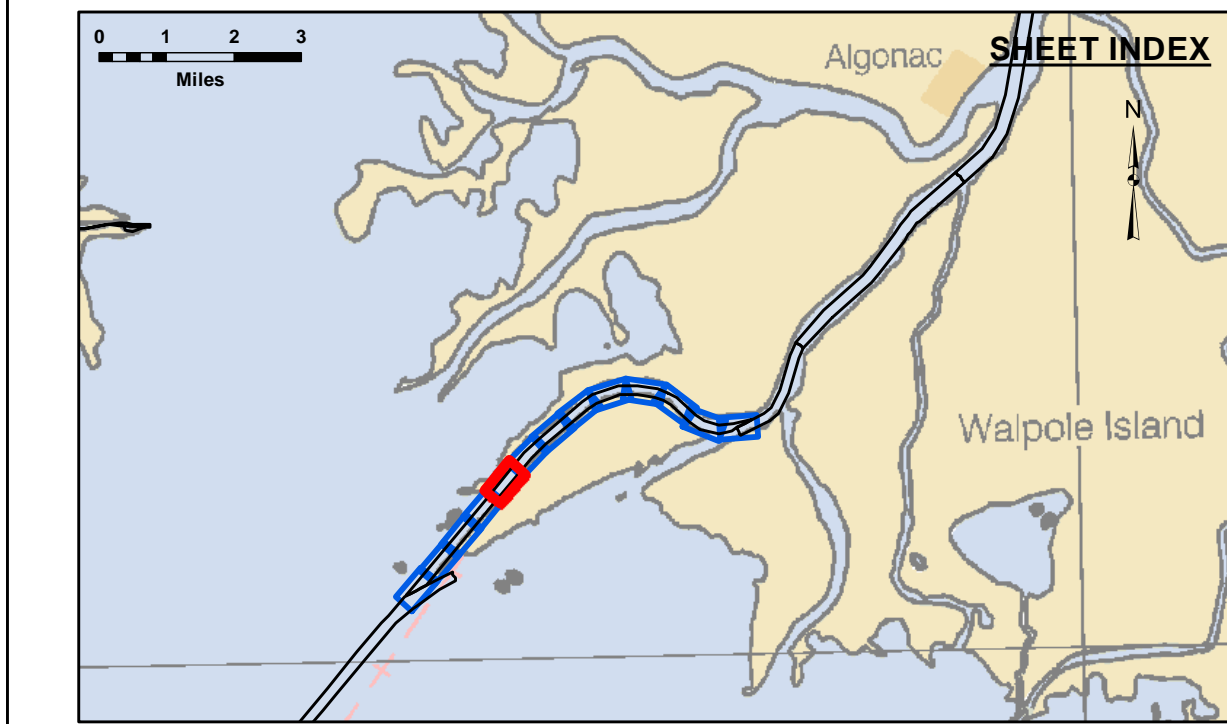
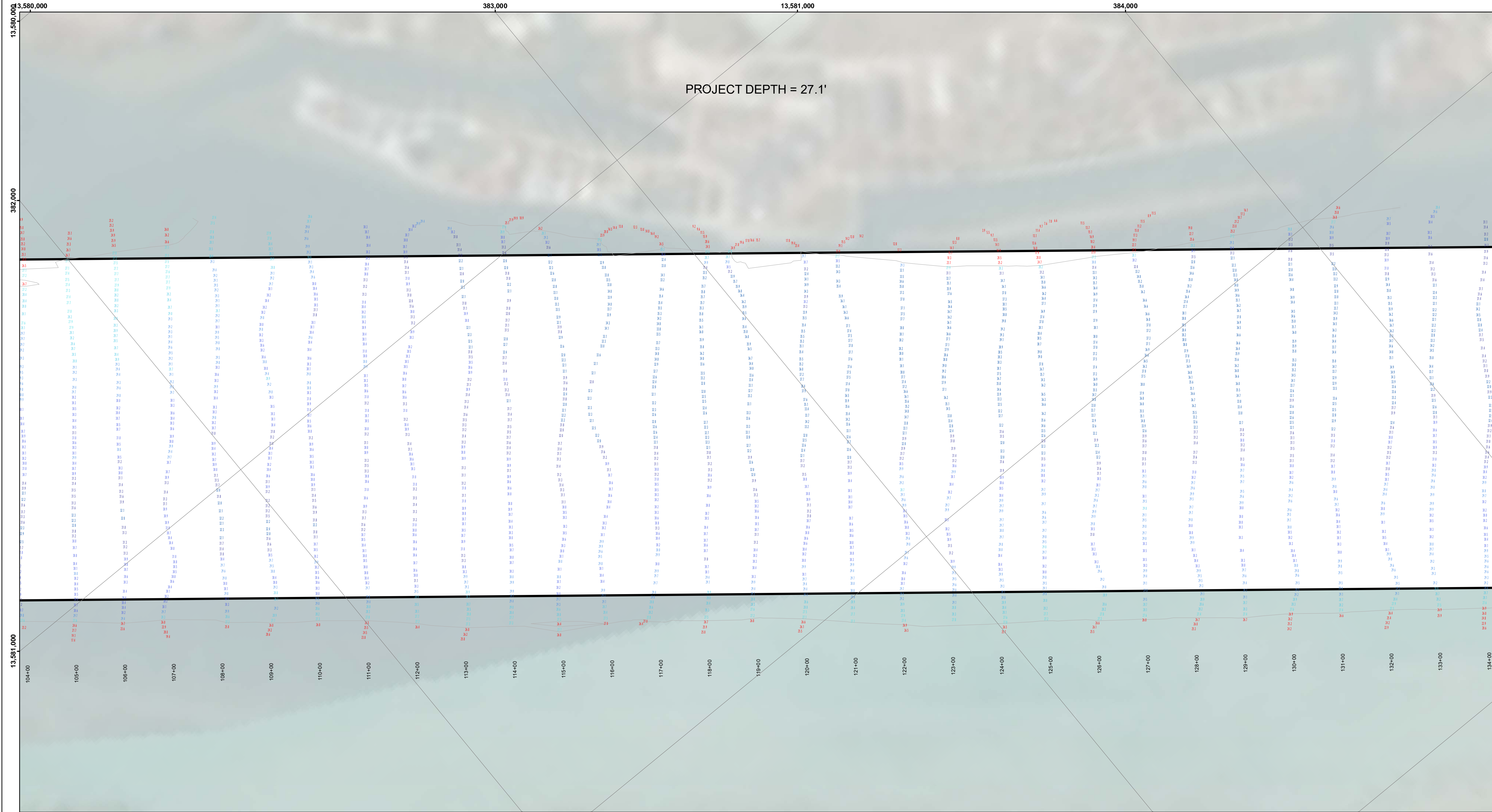
**St. Clair River, MI**  
**Old Southeast Bend**  
**SE\_01\_BND\_20201125\_CS**  
**25 November 2020**

**Sheet Reference Number**  
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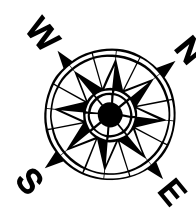




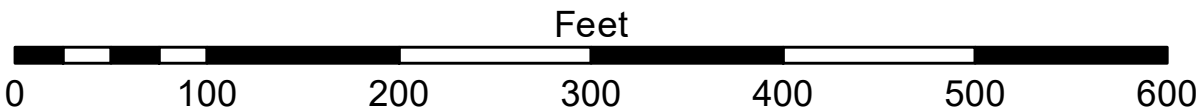


- LEGEND**
- ..... Cable Submarine
  - - Cable Overhead
  - Placement Area
  - Beacon, General
  - Contour Lines
  - Channel Limits

- SOUNDING LEGEND**
- LESS THAN PROJECT DEPTH
  - PROJECT DEPTH
  - PROJECT DEPTH +1'
  - PROJECT DEPTH +2'
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  - PROJECT DEPTH +4'
  - PROJECT DEPTH +5'



1 inch = 100 feet



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ALGONAC, MI (#9014070)  
ST. CLAIR SHORES, MI (#9034052)  
TEMPORARY GAGE BOARDS SET ALONG SOUTHEAST BEND CHANNEL

POSITIONING: APPLANIX POS-MV4 W/ VR6/RTK OR MARINESTAR GNSS  
MOTION COMPENSATION: APPLANIX POS-MV4  
SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)  
SOFTWARE: HYPACK



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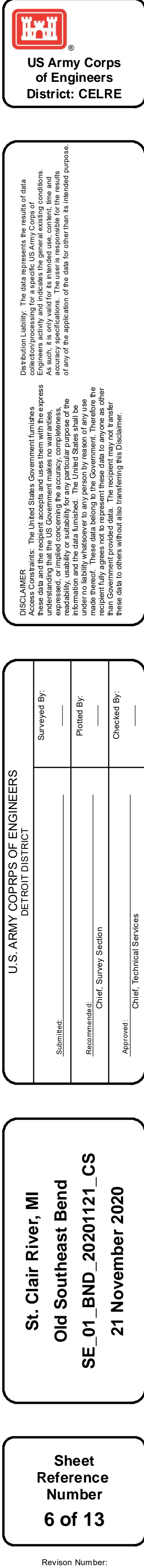
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Submitted:	Surveyed By:	Checked By:		
			Filled By:	
				Chief, Survey Section

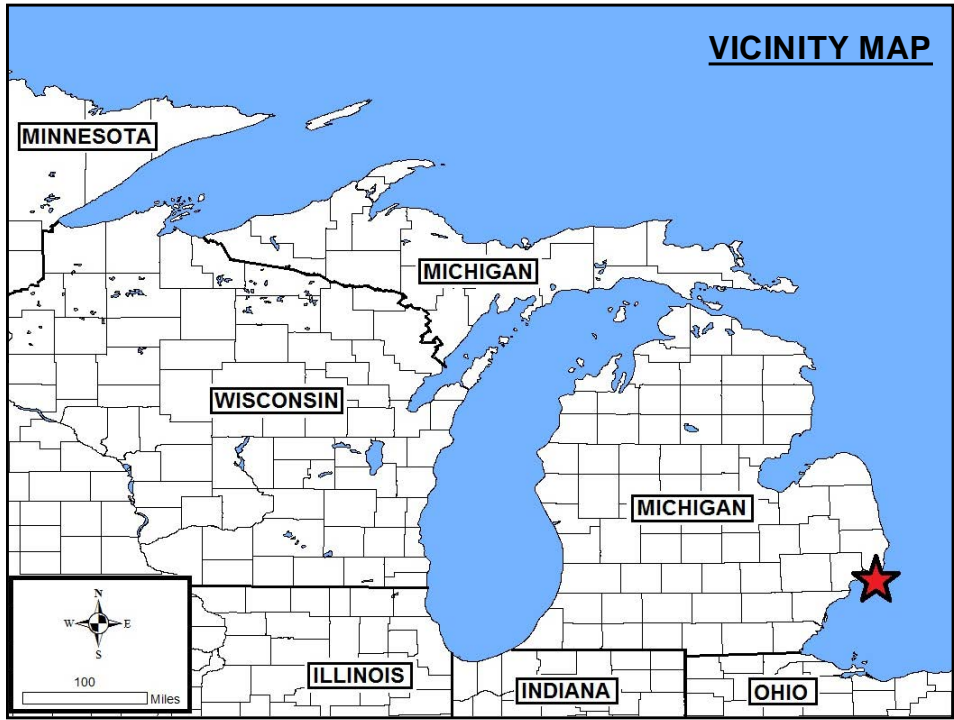
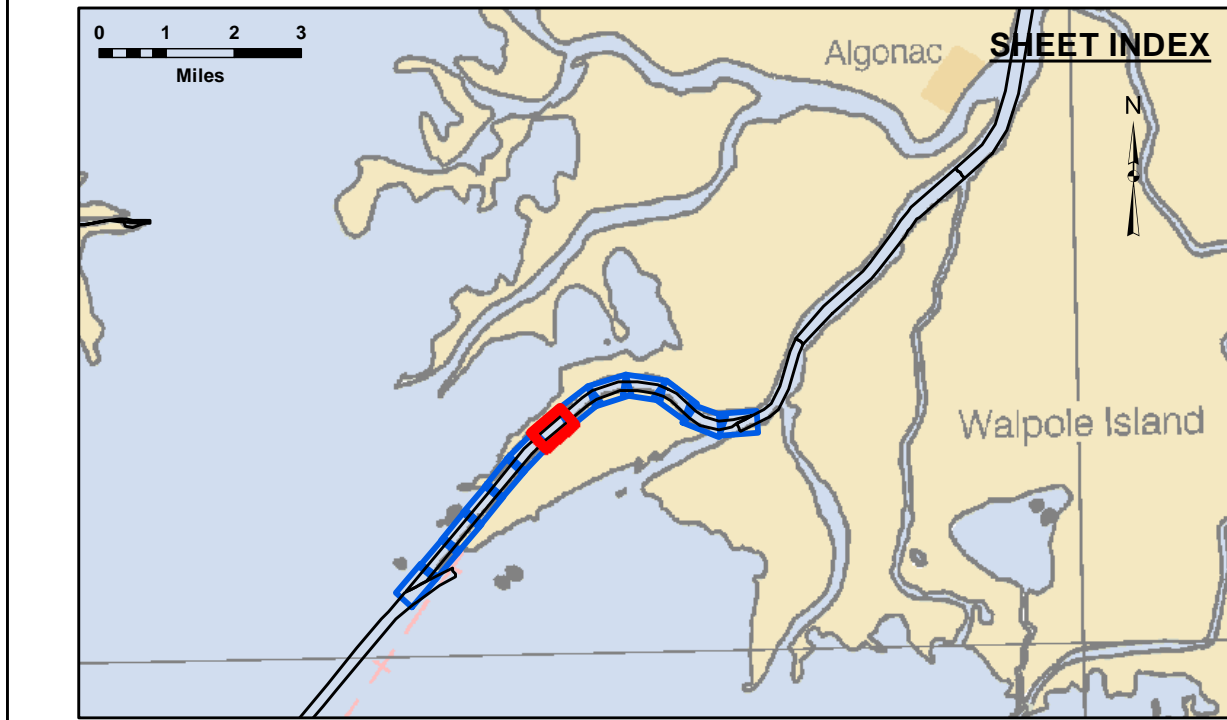
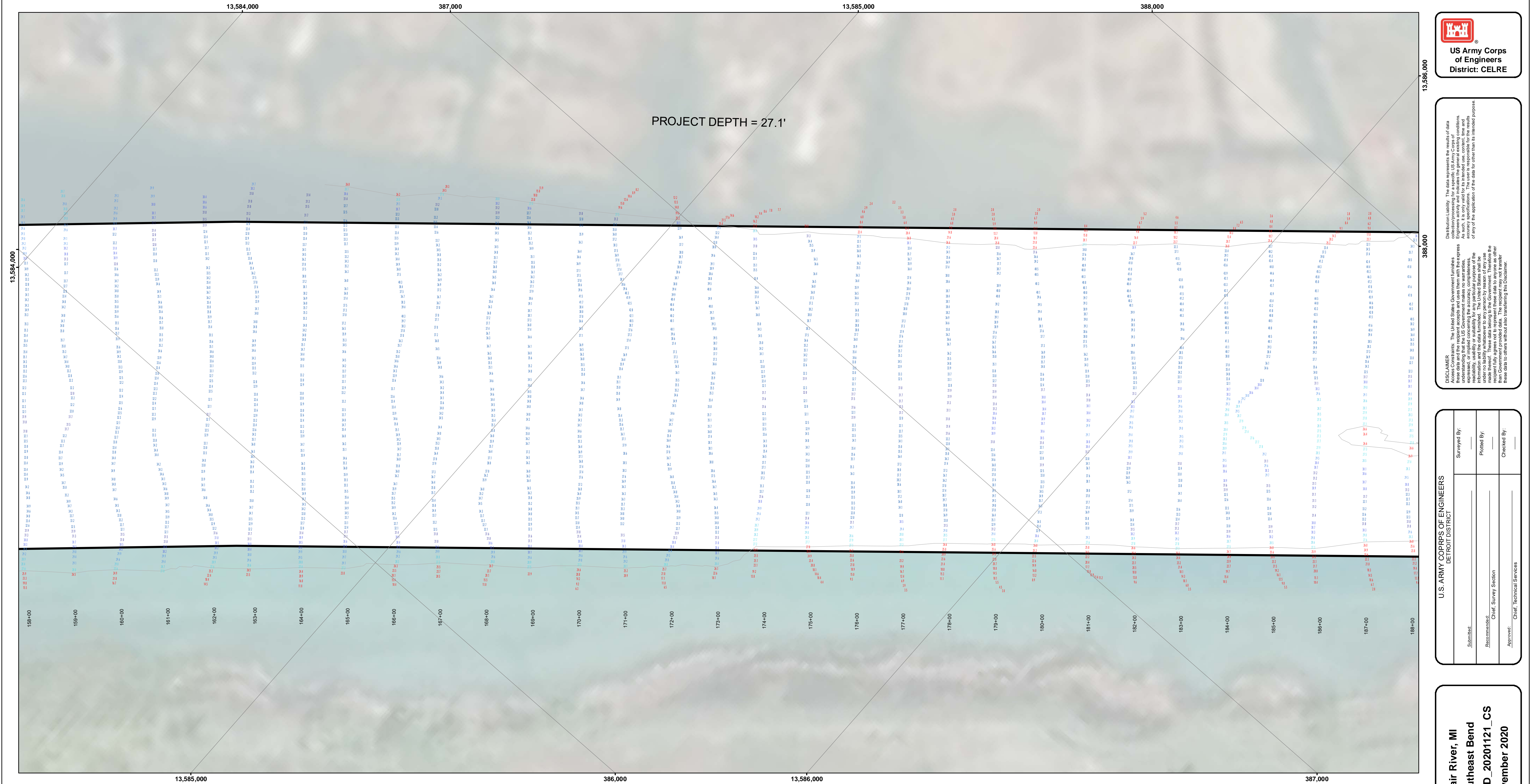
St. Clair River, MI  
Old Southeast Bend  
SE\_01\_BND\_20201121\_CS  
21 November 2020

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Number  
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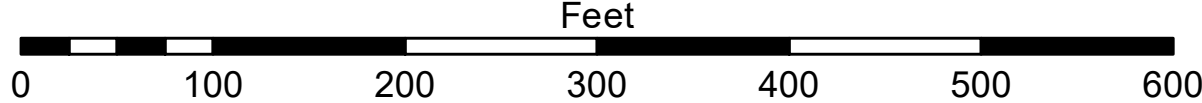


- LEGEND**
- ..... Cable Submarine
  - - Cable Overhead
  - Placement Area
  - Beacon, General
  - Contour Lines
  - Channel Limits

- SOUNDING LEGEND**
- LESS THAN PROJECT DEPTH
  - PROJECT DEPTH
  - PROJECT DEPTH +1'
  - PROJECT DEPTH +2'
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ST. CLAIR SHORES, MI (#9034052)  
TEMPORARY GAGE BOARDS SET ALONG SOUTHEAST BEND CHANNEL

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MOTION COMPENSATION: APPLANIX POS-MV4  
SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)  
SOFTWARE: HYPACK

**St. Clair River, MI**  
**Old Southeast Bend**  
**SE\_01\_BND\_20201121\_CS**  
**21 November 2020**

**Sheet Reference Number**  
**7 of 13**

Revision Number:  
4.2-202006030



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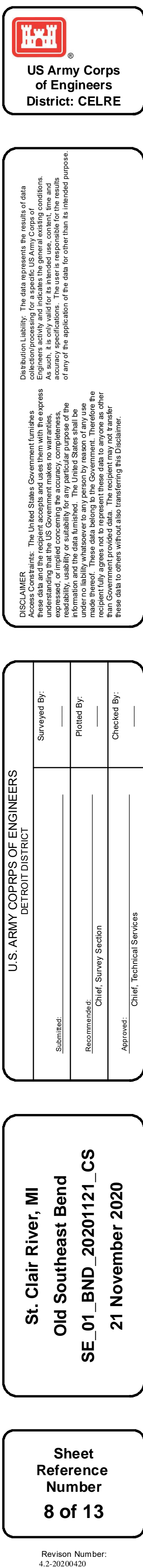
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Submitted:	Surveyed By:
	Plotted By:
	Checked By:
	Chief, Technical Services

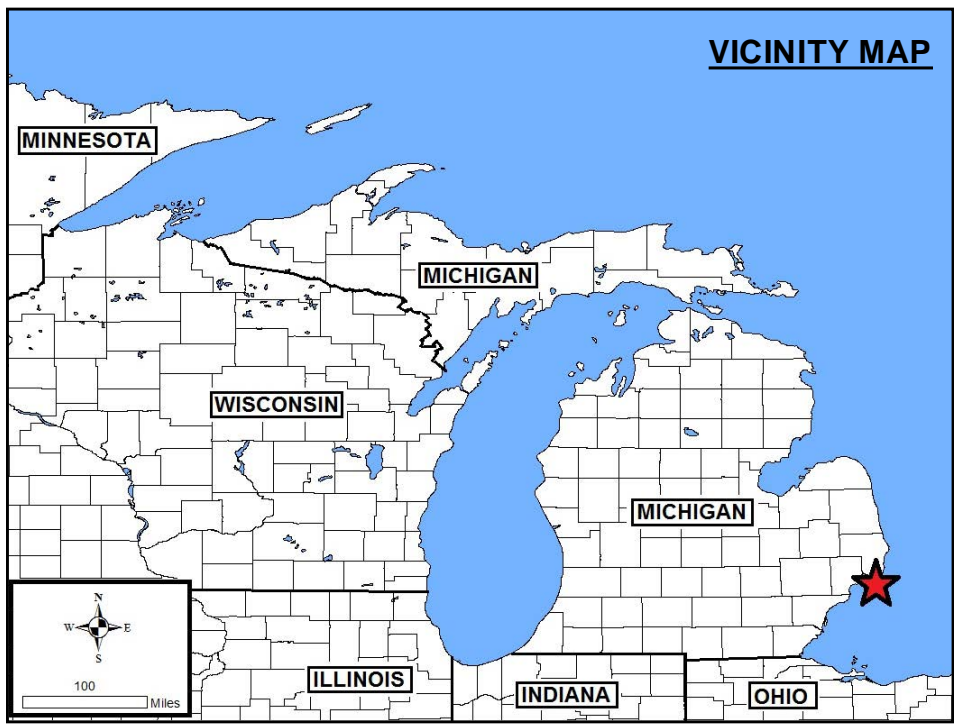
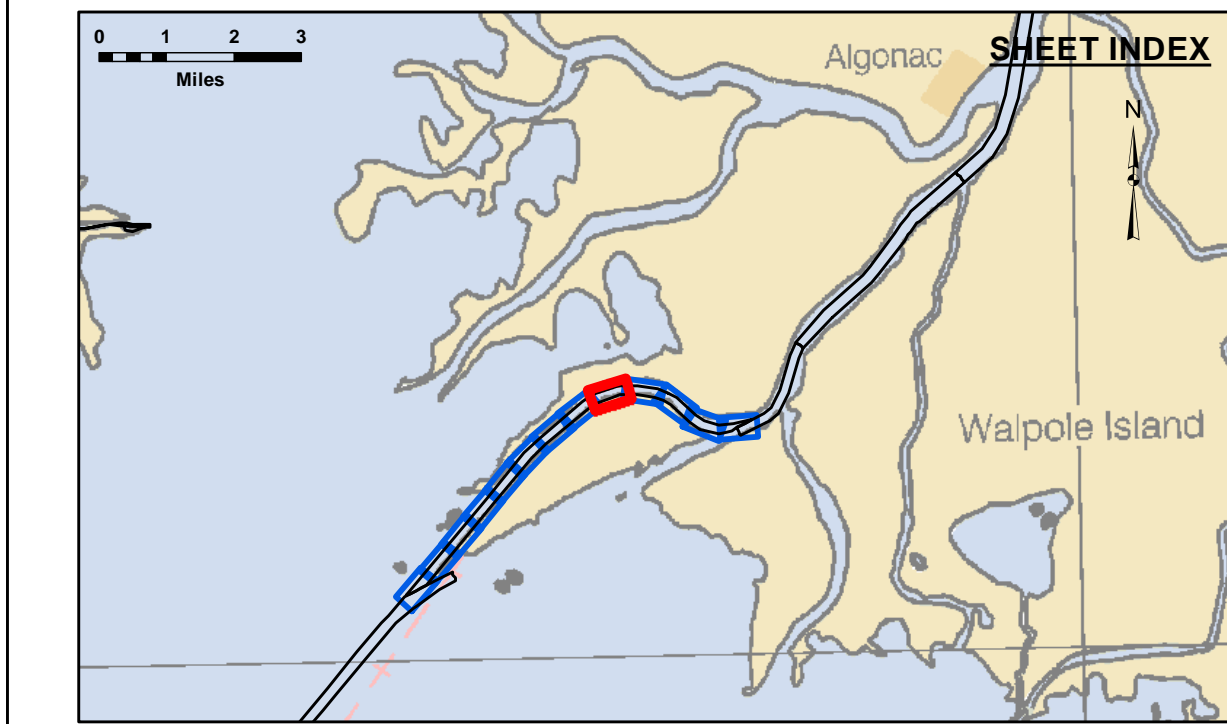
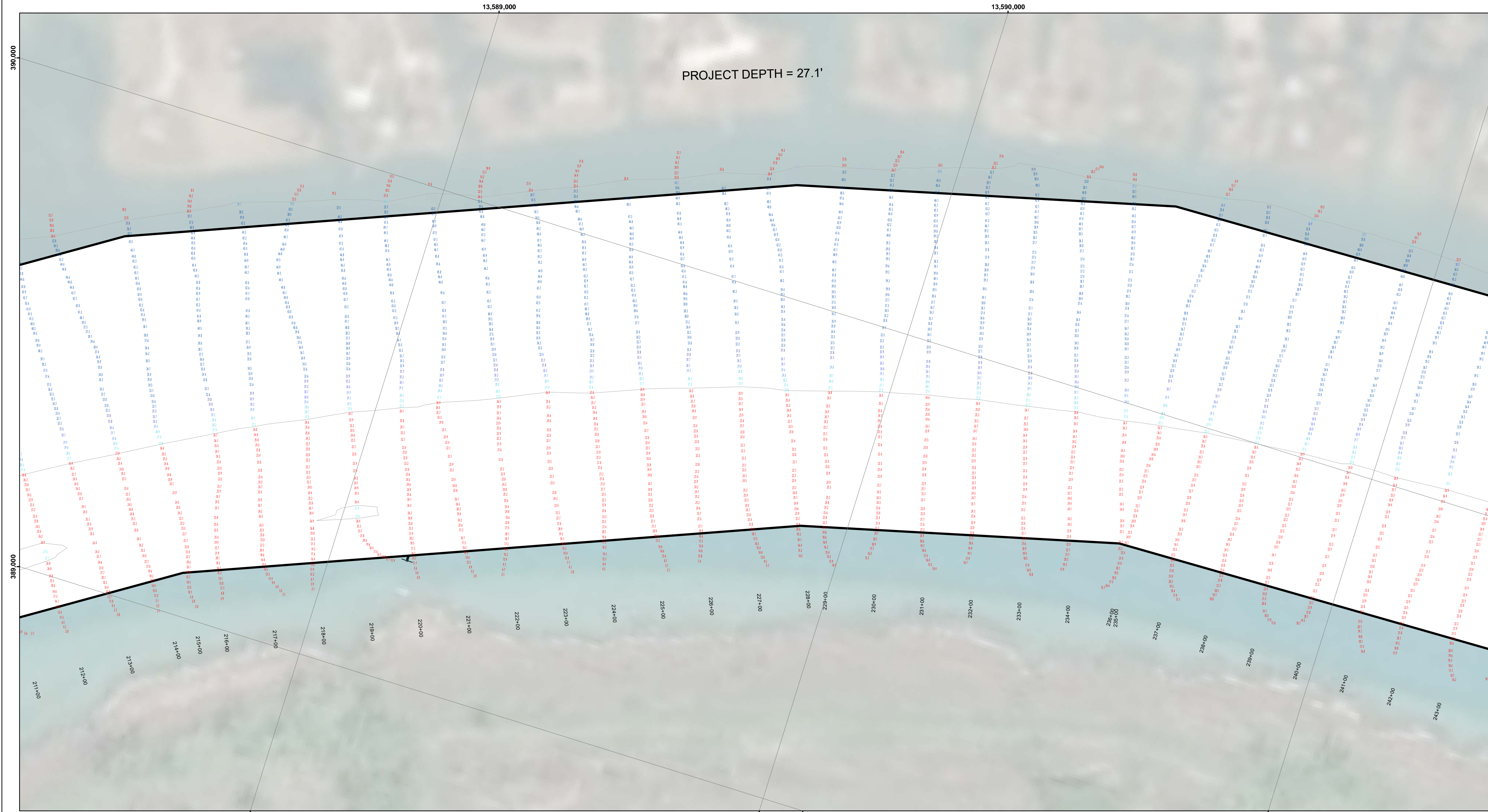
**St. Clair River, MI**  
**Old Southeast Bend**  
**SE\_01\_BND\_20201121\_CS**  
**21 November 2020**

**Sheet Reference Number**  
**7 of 13**



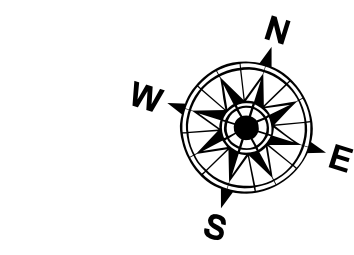




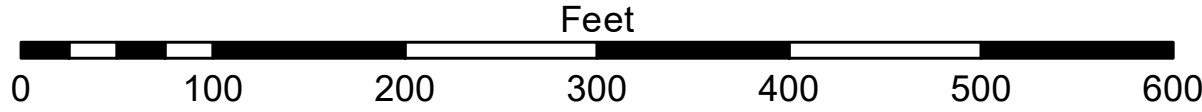


- LEGEND**
- ..... Cable Submarine
  - - Cable Overhead
  - Placement Area
  - Beacon, General
  - Contour Lines
  - Channel Limits

- SOUNDING LEGEND**
- LESS THAN PROJECT DEPTH
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ALGONAC, MI (#9014070)  
ST. CLAIR SHORES, MI (#9034052)  
TEMPORARY GAGE BOARDS SET ALONG SOUTHEAST BEND CHANNEL

POSITIONING: APPLANIX POS-MV4 W/ VR6/RTK OR MARINESTAR GNSS  
MOTION COMPENSATION: APPLANIX POS-MV4  
SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)  
SOFTWARE: HYPACK



US Army Corps  
of Engineers  
District: CELRE

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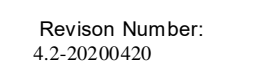
U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT		
Submitted:	Surveyed By:	
Recommended:	Plotted By:	
Approved:	Checked By:	

St. Clair River, MI  
Old Southeast Bend  
SE\_01\_BND\_20201121\_CS  
21 November 2020

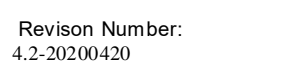
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Reference  
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Revision Number:  
4.2-202006030

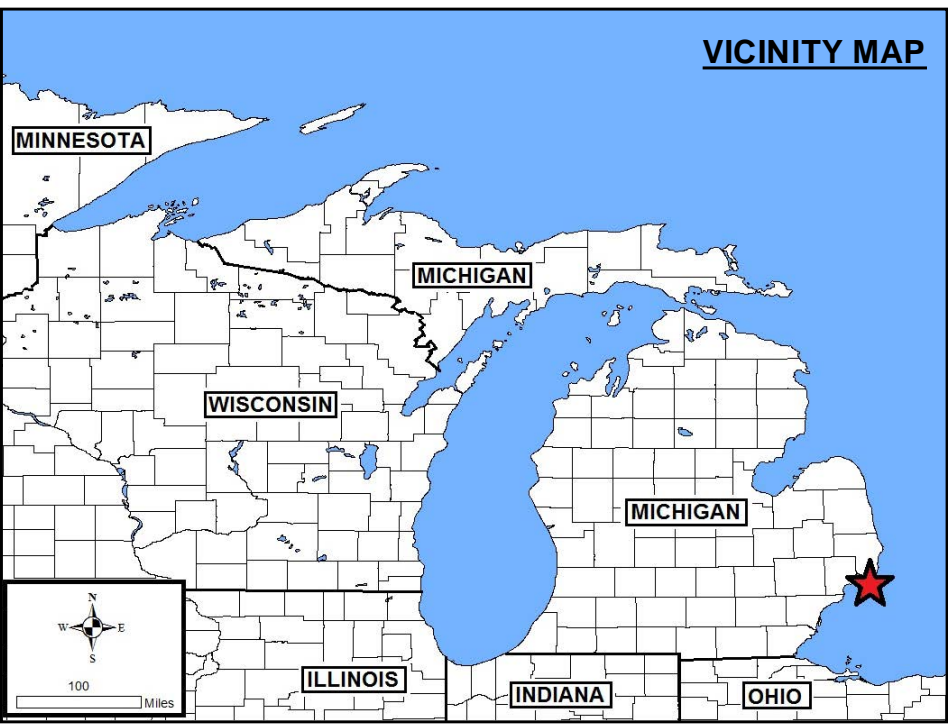
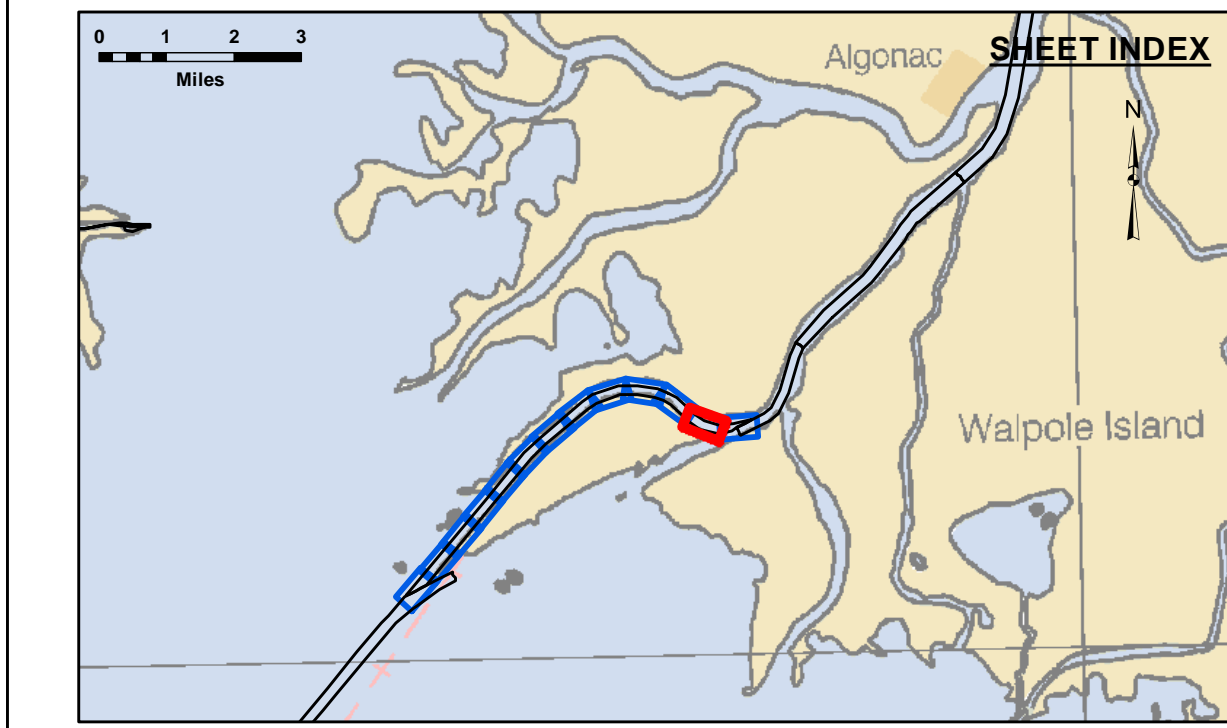






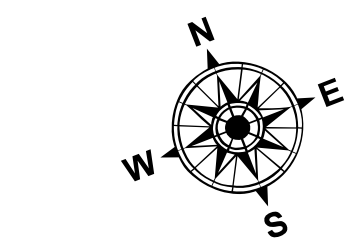




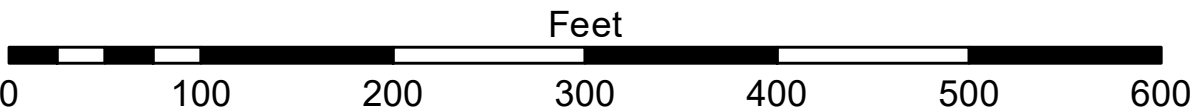


- LEGEND**
- ..... Cable Submarine
  - - Cable Overhead
  - Placement Area
  - Beacon, General
  - Contour Lines
  - Channel Limits

- SOUNDING LEGEND**
- LESS THAN PROJECT DEPTH
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  - PROJECT DEPTH +1'
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SOFTWARE: HYPACK



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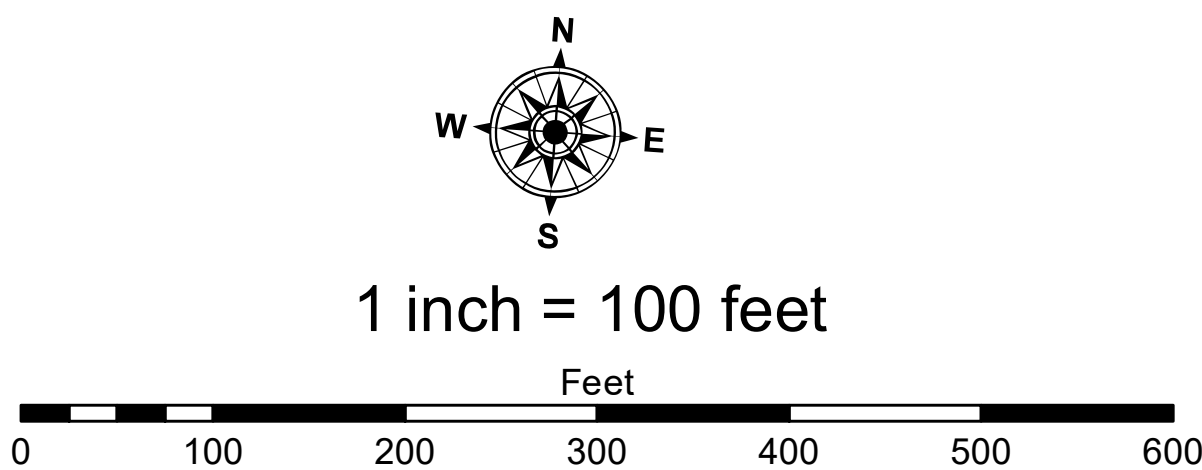
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U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT		
Submitted:	Surveyed By:	
Recommended:	Plotted By:	
Approved:	Checked By:	

St. Clair River, MI  
Old Southeast Bend  
SE\_01\_BND\_20201121\_CS  
21 November 2020

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District: CELRE**