CORPS OF ENGINEERS

U.S. ARMY

43°46'10" N

83°45'10" W

43°46'20" N

83°45'0" W

43°46'30" N

83°44'50" W

43°46'0" N

83°45'0" W

83°44'40" W

PROJECT DEPTH = 27.0'

83°44'50" W

43°46'10" N

83°44'40" W

Microsoft, Vantor

US Army Corps of Engineers
District: CELRE

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U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

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

Saginaw, MI
Saginaw River
SH_01_SAG_20260624_CS
24 June 2026

Sheet Reference Number
9 of 62

Revision Number:
5.26.04.06-5.26.04.06

SHEET INDEX

N

0 4 8 12
Miles

VICINITY MAP

MINNESOTA
MICHIGAN
WISCONSIN
MICHIGAN
ILLINOIS
INDIANA
OHIO

100 Miles

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

Feet
0 100 200 300 400

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SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)
SOFTWARE: HYPACK

AERIAL PHOTOGRAPHY DATA SOURCE: ESRI / MICROSOFT
ALL COORDINATES ARE IN U.S. SURVEY FEET.

CORPS OF ENGINEERS

U.S. ARMY

43°45'50" N

83°45'30" W

83°45'20" W

43°46'0" N

83°45'10" W

83°45'40" N

83°45'30" W

83°45'20" W

43°45'40" N

83°45'10" W

43°45'50" N

83°45'0" W

PROJECT DEPTH = 27.0'

Microsoft, Vantor

US Army Corps of Engineers District: CELRE

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U.S. ARMY CORPPS OF ENGINEERS
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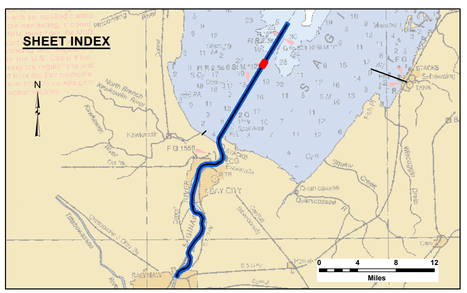
Surveyed By:	Submitted	____
____		
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Saginaw, MI
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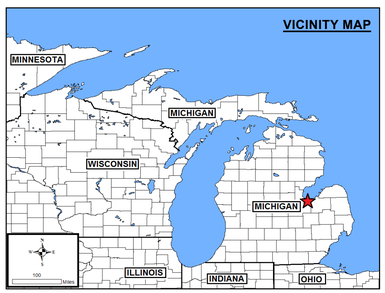
Sheet Reference Number 10 of 62

Revision Number:
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SHEET INDEX



VICINITY MAP



LEGEND

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

SOUNDING LEGEND

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AERIAL PHOTOGRAPHY DATA SOURCE: ESRI / MICROSOFT
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CORPS OF ENGINEERS

U.S. ARMY

43°45'20" N

83°45'50" W

83°45'40" W

83°45'30" W

83°45'30" N

83°45'40" N

83°45'50" W

83°45'40" W

83°45'30" W

83°45'20" W

43°45'30" N

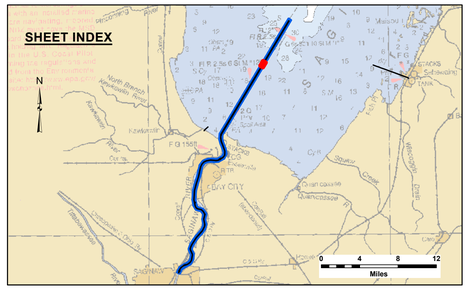
43°45'40" N

458+00 459+00 460+00 461+00 462+00 463+00 464+00 465+00 466+00 467+00 468+00 469+00 470+00 471+00 472+00 473+00 474+00 475+00 476+00 477+00 478+00 479+00 480+00 481+00 482+00 483+00 484+00 485+00 486+00 487+00

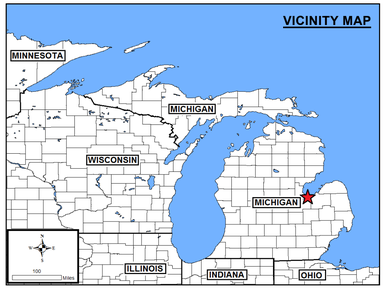
PROJECT DEPTH = 27.0'

Microsoft Vantor

SHEET INDEX



VICINITY MAP



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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N W E S

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0 100 200 300 400

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POSITIONING:APPLANIX POS-MV4 W/ VRS/RTX OR MARINESTAR GNSS.
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SOFTWARE: HYPACK

AERIAL PHOTOGRAPHY DATA SOURCE: ESRI / MICROSOFT
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DETROIT DISTRICT

Surveyed By: _____
Submitted: _____

Plotted By: _____
Recommended: Chief, Survey Section

Checked By: _____
Approved: Chief, Technical Services

Saginaw, MI
Saginaw River
SH_01_SAG_20260624_CS
24 June 2026

Sheet Reference Number
11 of 62

Revision Number:
5.26.04.06-5.26.04.06

43°45'0" N 83°46'10" W 43°45'10" N 83°46'0" W 43°45'20" N

83°46'10" W 43°44'50" N 83°46'0" W 43°45'50" W 43°45'40" W 43°45'20" N

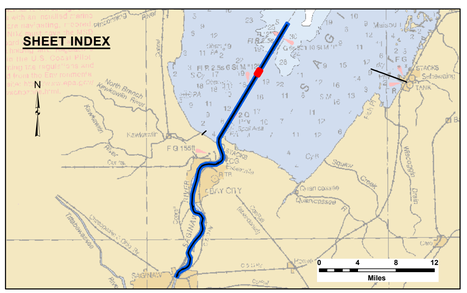
PROJECT DEPTH = 27.0'

431+00 432+00 433+00 434+00 435+00 436+00 437+00 438+00 439+00 440+00 441+00 442+00 443+00 444+00 445+00 446+00 447+00 448+00 449+00 450+00 451+00 452+00 453+00 454+00 455+00 456+00 457+00 458+00 459+00 460+00

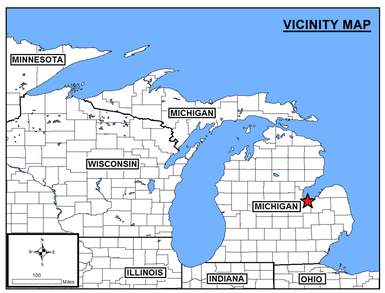
43°44'50" N 83°45'50" W 43°45'0" N 83°45'40" W 43°45'10" N

Microsoft, Vantor

SHEET INDEX



VICINITY MAP



LEGEND

- Cable Submarine
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SOUNDING LEGEND

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DETROIT DISTRICT

	Surveyed By:	Plotted By:	Checked By:
Submitted:			
Recommended:	Chief, Survey Section		
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Saginaw, MI
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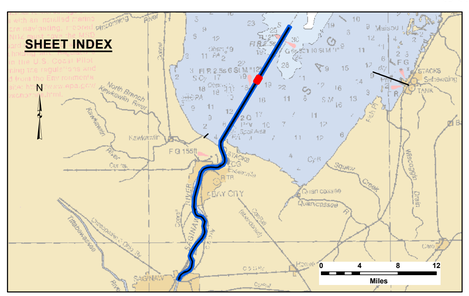
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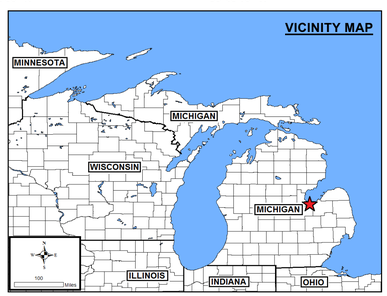
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SHEET INDEX



VICINITY MAP



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US Army Corps of Engineers District: CELRE

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U.S. ARMY CORPRPS OF ENGINEERS
DETROIT DISTRICT

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

Saginaw, MI
Saginaw River
SH_01_SAG_20260624_CS
24 June 2026

Sheet Reference Number
13 of 62

Revision Number:
5.26.04.06-5.26.04.06

CORPS OF ENGINEERS U.S. ARMY

83°46'50" W 43°44'20" N 83°46'40" W 43°44'30" N

43°44'10" N

83°46'50" W

376+00 377+00 378+00 379+00 380+00 381+00 382+00 383+00 384+00 385+00 386+00 387+00 388+00 389+00 390+00 391+00 392+00 393+00 394+00 395+00 396+00 397+00 398+00 399+00 400+00 401+00 402+00 403+00 404+00 405+00

83°46'30" W

83°46'40" W

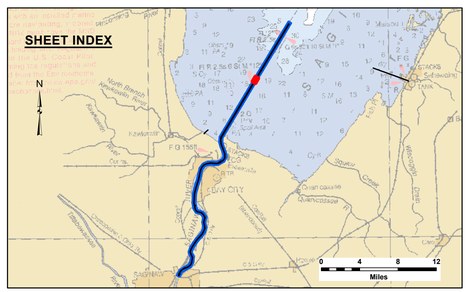
PROJECT DEPTH = 27.0'

83°46'20" W

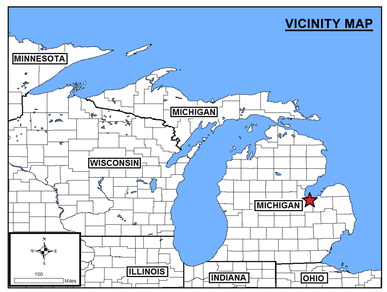
Microsoft, Vantor

83°46'30" W 43°44'10" N 43°44'20" N 83°46'20" W

SHEET INDEX



VICINITY MAP



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'
- PROJECT DEPTH +5'

N W E S

1 inch = 100 feet

Feet

0 100 200 300 400

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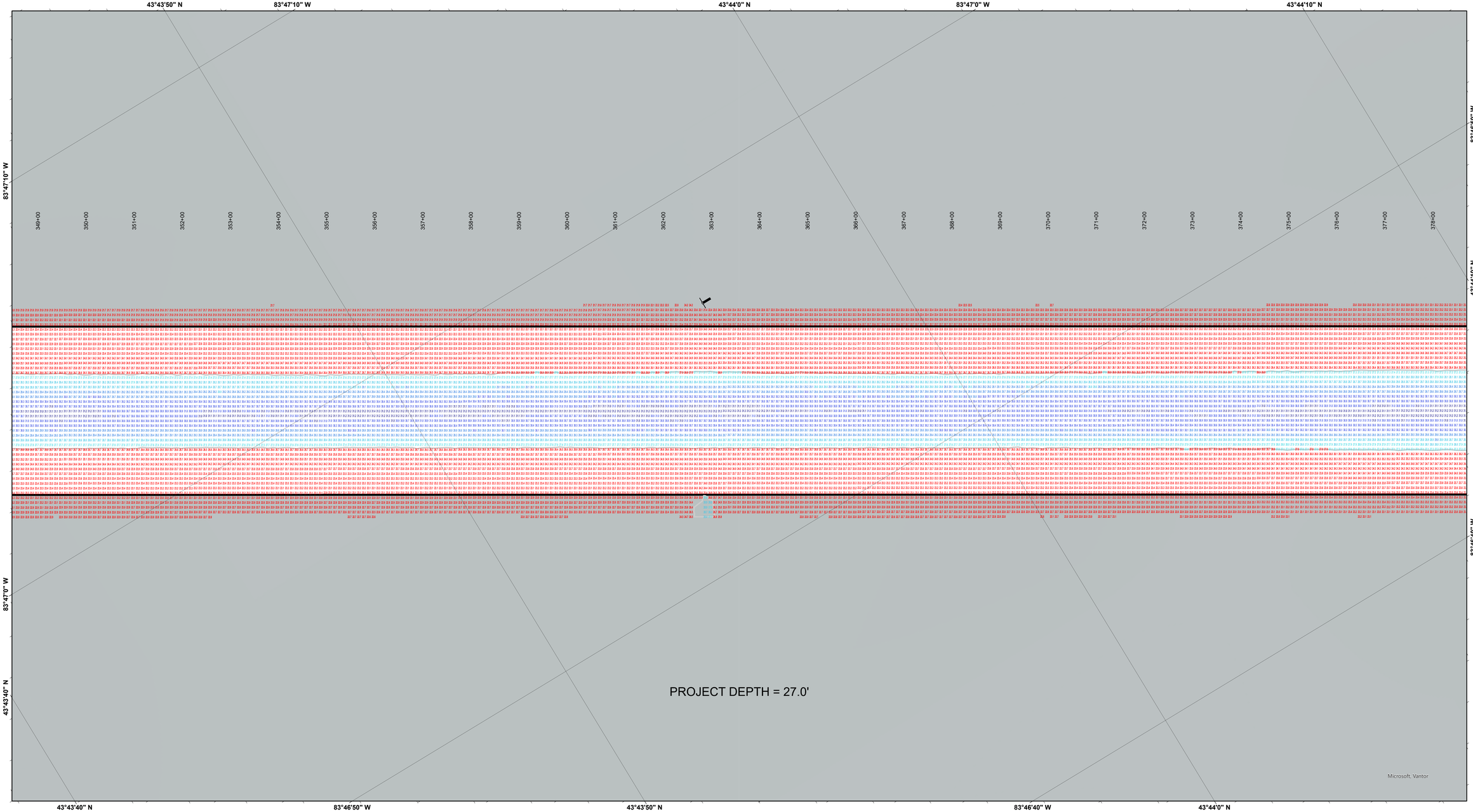
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DETROIT DISTRICT

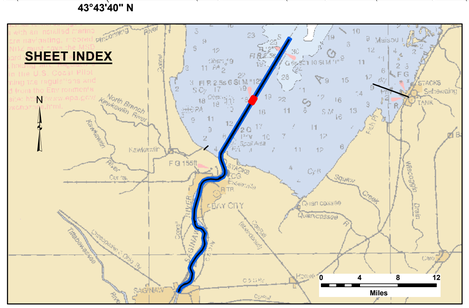
Surveyed By: _____	Plotted By: _____	Checked By: _____
Submitted:	Recommended: Chief, Survey Section	
	Approved: Chief, Technical Services	

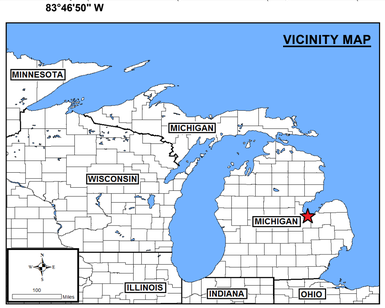
Saginaw, MI
Saginaw River
SH_01_SAG_20260624_CS
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Sheet Reference Number 14 of 62

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LEGEND

- Cable Submarine
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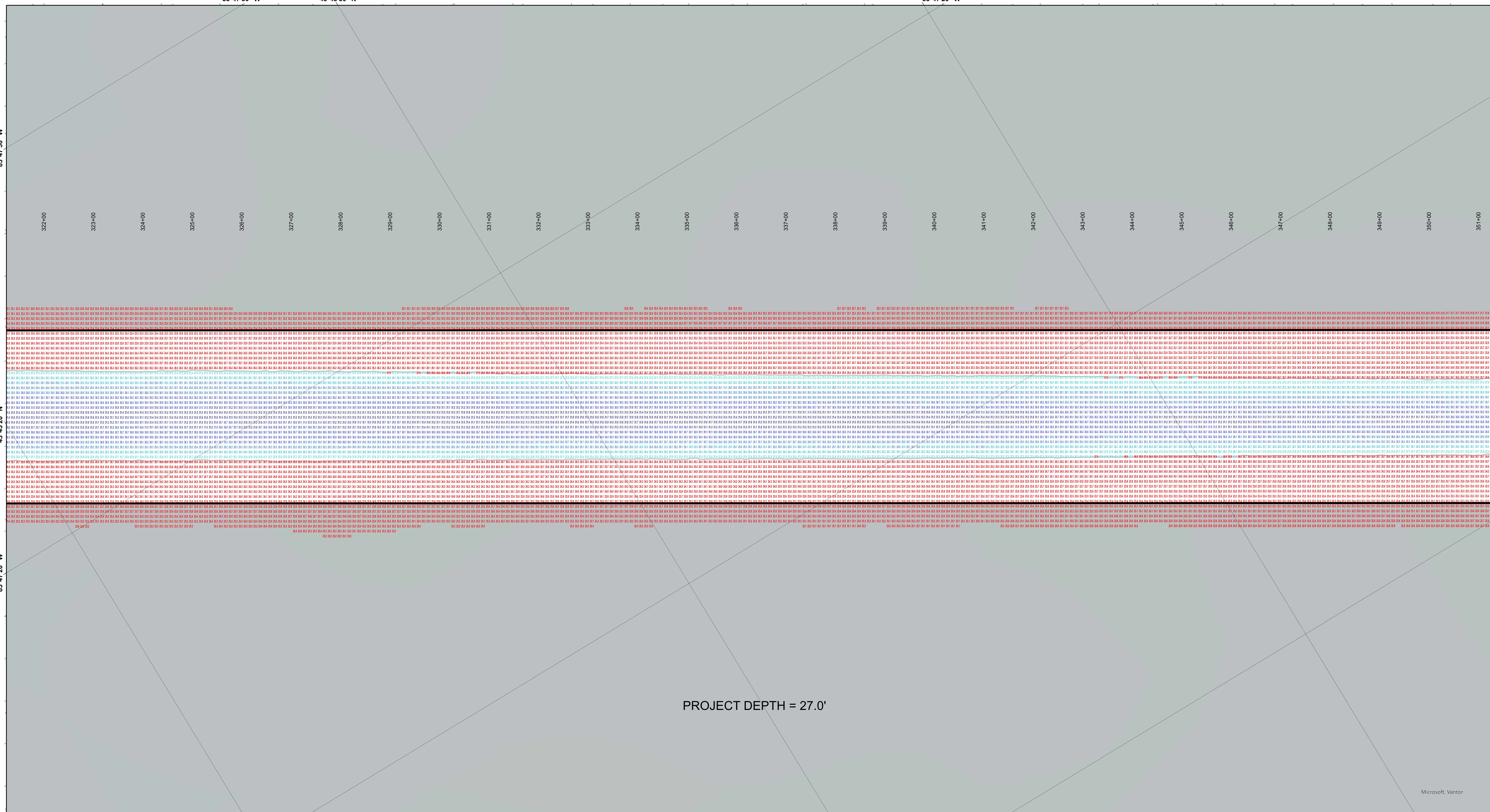
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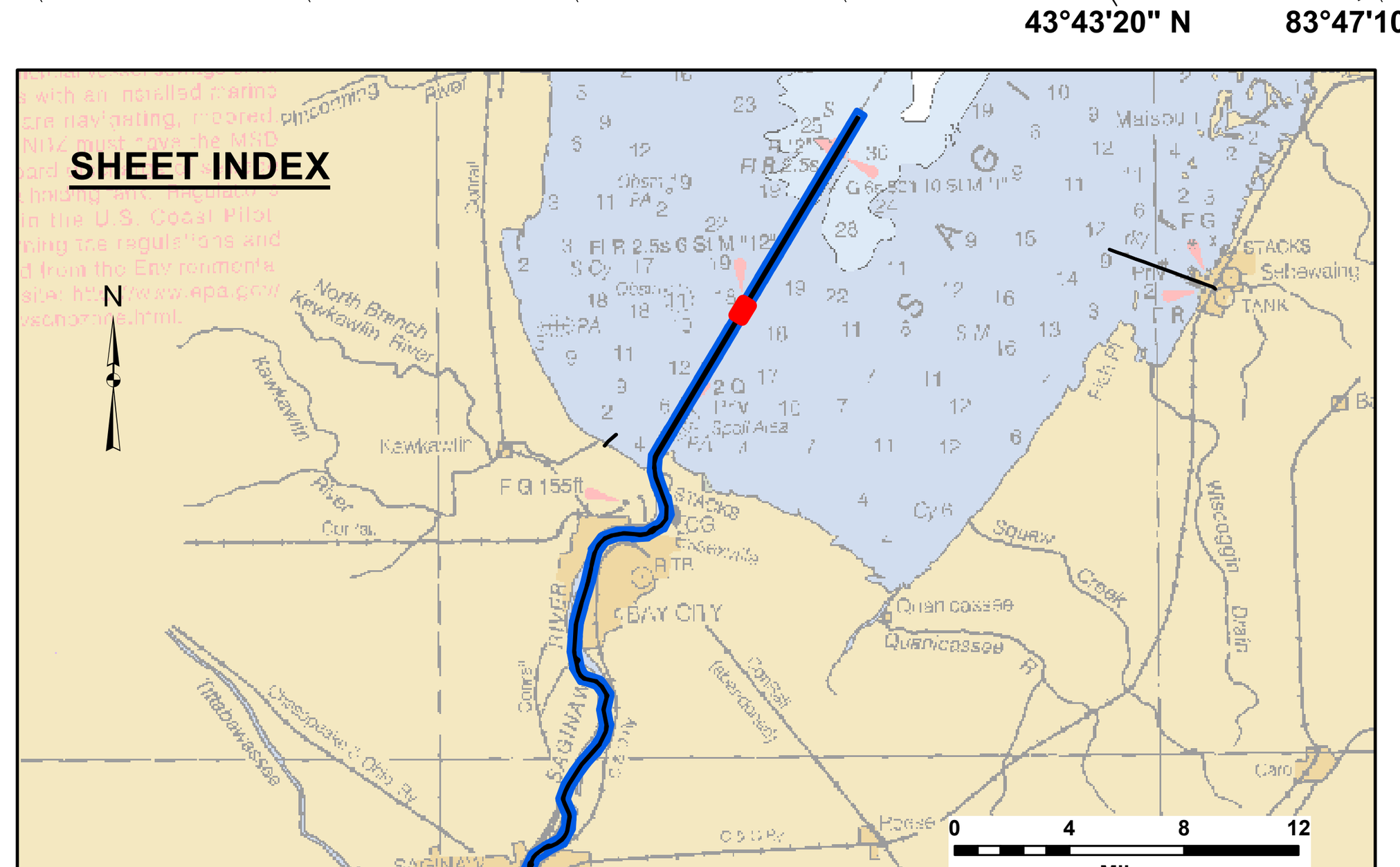
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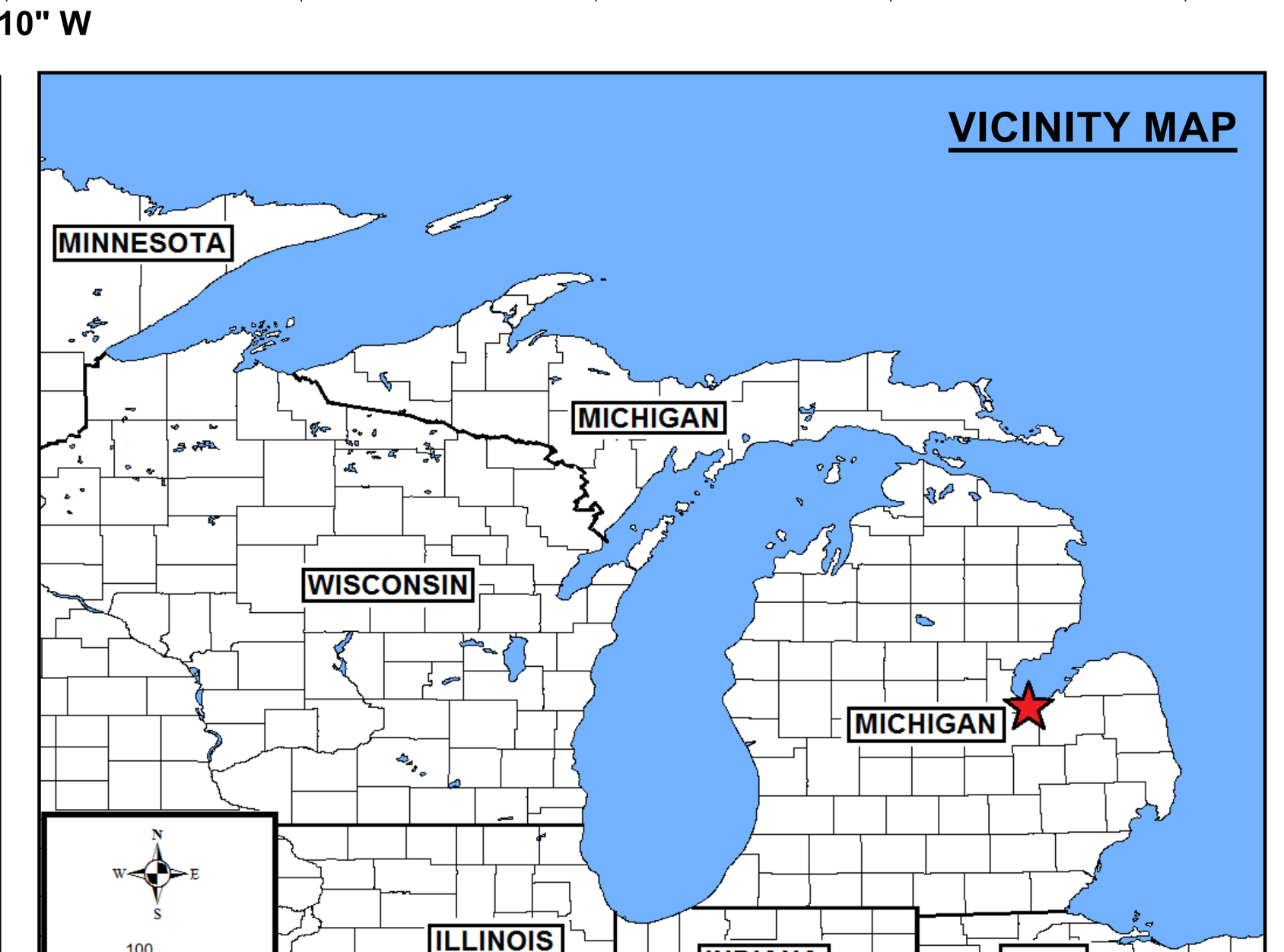
Saginaw, MI
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Plotted By: ___
Checked By: ___

Submitted: ___
Recommended: ___ Chief, Survey Section
Approved: ___ Chief, Technical Services

Saginaw, MI
Saginaw River
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CORPS OF ENGINEERS

U.S. ARMY

83°47'50" W

43°43'10" N

83°47'40" W

43°43'20" N

83°47'30" W

43°43'20" N

83°47'40" W

PROJECT DEPTH = 27.0'

Microsoft Vantor

83°47'30" W

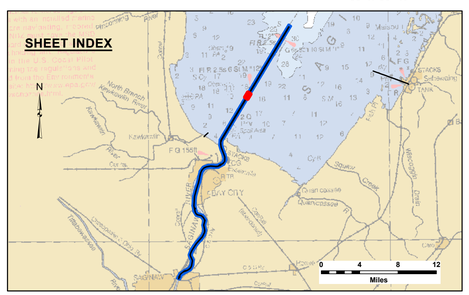
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83°47'20" W

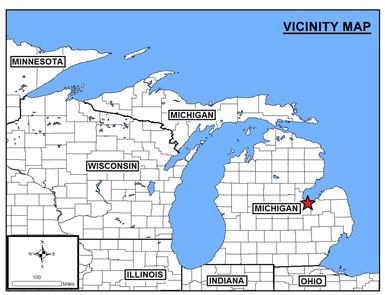
43°43'10" N

295+00 296+00 297+00 298+00 299+00 300+00 301+00 302+00 303+00 304+00 305+00 306+00 307+00 308+00 309+00 310+00 311+00 312+00 313+00 314+00 315+00 316+00 317+00 318+00 319+00 320+00 321+00 322+00 323+00 324+00

SHEET INDEX



VICINITY MAP



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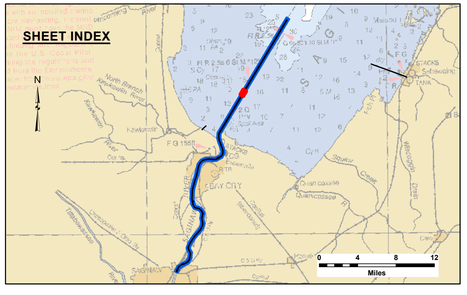
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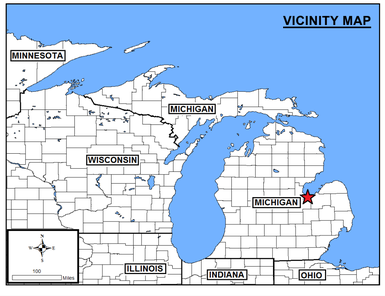
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Microsoft, Vantor

267+00 268+00 269+00 270+00 271+00 272+00 273+00 274+00 275+00 276+00 277+00 278+00 279+00 280+00 281+00 282+00 283+00 284+00 285+00 286+00 287+00 288+00 289+00 290+00 291+00 292+00 293+00 294+00 295+00 296+00 297+00





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TIDE VALUES ARE DERRIVED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) WATER LEVEL STATIONS: ESSEXVILLE, MI (9075035) ALONG WITH THE FOLLOWING GAGES: G.BOARD ON PILING NEAR CS 820+00, TBM ZILL RAMP, TBM CHEB, TBM CASS RAMP, TBM RAILROAD [ESTABLISHED FROM COE VERTICAL CP BM 36], TBM SAIL AT THE FOOT OF THE 5TH STREET, G.BOARD
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MOTION COMPENSATION: APPLANIX POS-MV4
SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)
SOFTWARE: HYPACK

AERIAL PHOTOGRAPHY DATA SOURCE: ESRI / MICROSOFT
ALL COORDINATES ARE IN U.S. SURVEY FEET.

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Submitted		
Recommended	Chief, Survey Section	
Approved	Chief, Technical Services	

Saginaw, MI
Saginaw River
SH_01_SAG_20260624_CS
24 June 2026

Sheet Reference Number
18 of 62

Revision Number:
5.26.04.06-5.26.04.06

CORPS OF ENGINEERS

U.S. ARMY

83°48'30" W

43°42'20" N

83°48'20" W

43°42'30" N

83°48'10" W

PROJECT DEPTH = 27.0'

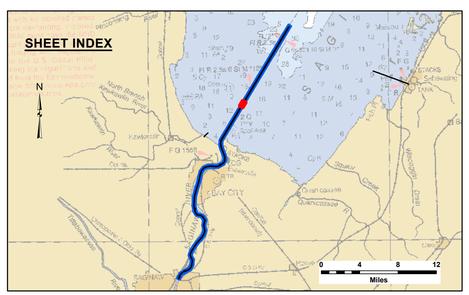
Microsoft, Vantor

83°48'10" W 43°42'10" N

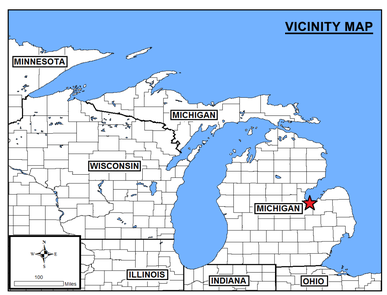
43°42'20" N 83°48'0" W

43°42'30" N

SHEET INDEX



VICINITY MAP



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'

N W E S

1 inch = 100 feet

Feet
0 100 200 300 400

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US Army Corps of Engineers
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DETROIT DISTRICT

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Submitted:			
Recommended:	Chief, Survey Section		
Approved:	Chief, Technical Services		

Saginaw, MI
Saginaw River
SH_01_SAG_20260624_CS
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83°48'50" W 43°42'0" N 83°48'40" W 43°42'10" N 83°48'30" W

43°41'50" N

213+00 214+00 215+00 216+00 217+00 218+00 219+00 220+00 221+00 222+00 223+00 224+00 225+00 226+00 227+00 228+00 229+00 230+00 231+00 232+00 233+00 234+00 235+00 236+00 237+00 238+00 239+00 240+00 241+00 242+00

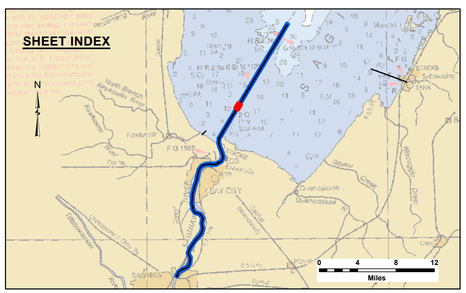
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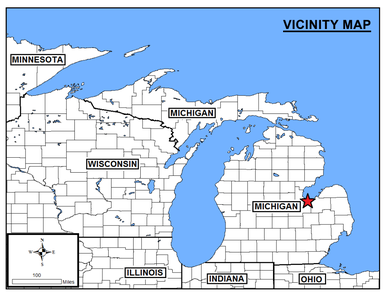
83°48'20" W

PROJECT DEPTH = 27.0'

Microsoft, Vantor

83°48'30" W 43°41'50" N 83°48'20" W 43°42'0" N 83°48'10" W





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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1 inch = 100 feet

Feet
0 100 200 300 400

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DETROIT DISTRICT

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Plotted By: _____
Checked By: _____

Submitted: _____ Chief, Technical Services

Recommended: _____ Chief, Survey Section

Approved: _____ Chief, Technical Services

Saginaw, MI
Saginaw River
SH_01_SAG_20260624_CS
24 June 2026

Sheet Reference Number
20 of 62

Revision Number:
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CORPS OF ENGINEERS

U.S. ARMY

43°41'30" N

43°41'40" N

83°49'0" W

43°41'50" N

83°48'50" W

83°48'40" W

83°48'30" W

PROJECT DEPTH = 27.0'

Microsoft, Vantor

83°48'50" W

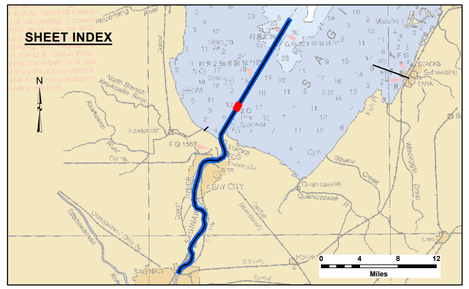
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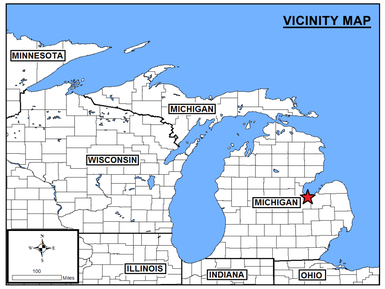
43°41'40" N

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SHEET INDEX



VICINITY MAP



LEGEND

- Cable Submarine
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SOUNDING LEGEND

- LESS THAN PROJECT DEPTH
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Checked By: _____

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Recommended: _____ Chief, Survey Section

Approved: _____ Chief, Technical Services

Saginaw, MI
Saginaw River
SH_01_SAG_20260624_CS
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CORPS OF ENGINEERS U.S. ARMY

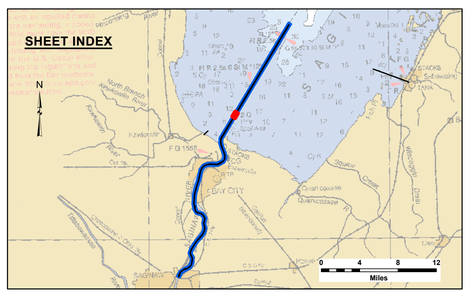
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158+00 159+00 160+00 161+00 162+00 163+00 164+00 165+00 166+00 167+00 168+00 169+00 170+00 171+00 172+00 173+00 174+00 175+00 176+00 177+00 178+00 179+00 180+00 181+00 182+00 183+00 184+00 185+00 186+00 187+00 188+00

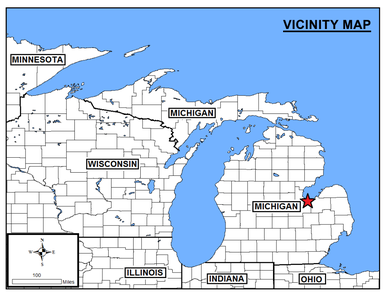
PROJECT DEPTH = 27.0'

Microsoft, Vantor

SHEET INDEX



VICINITY MAP



LEGEND

- Cable Submarine
- Cable Overhead
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SOUNDING LEGEND

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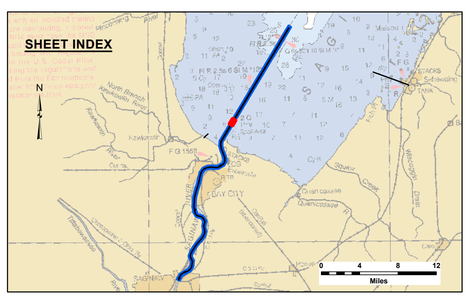
Sheet Reference Number
22 of 62

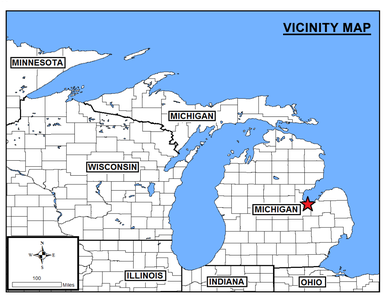
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Microsoft Vantor





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- Channel_Limits

SOUNDING LEGEND

- LESS THAN PROJECT DEPTH
- PROJECT DEPTH
- PROJECT DEPTH +1'
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- PROJECT DEPTH +4'
- PROJECT DEPTH +5'

1 inch = 100 feet

Feet
0 100 200 300 400

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SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)
SOFTWARE: HYPACK

AERIAL PHOTOGRAPHY DATA SOURCE: ESRI / MICROSOFT
ALL COORDINATES ARE IN U.S. SURVEY FEET.

US Army Corps of Engineers
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DETROIT DISTRICT

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

Saginaw, MI
Saginaw River
SH_01_SAG_20260624_CS
24 June 2026

Sheet Reference Number
23 of 62

Revision Number:
5.26.04.06-5.26.04.06

CORPS OF ENGINEERS

U.S. ARMY

83°50'0" W 43°40'30" N 43°40'40" N 83°49'50" W

43°40'20" N

83°50'0" W

104+00 105+00 106+00 107+00 108+00 109+00 110+00 111+00 112+00 113+00 114+00 115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+00 123+00 124+00 125+00 126+00 127+00 128+00 129+00 130+00 131+00 132+00 133+00

83°49'50" W

43°40'40" N

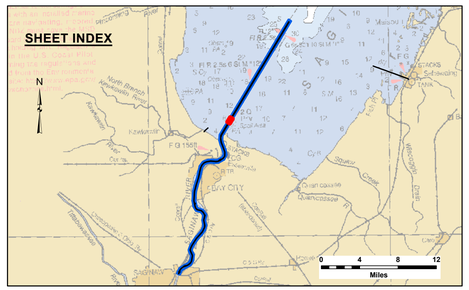
83°49'30" W

PROJECT DEPTH = 27.0'

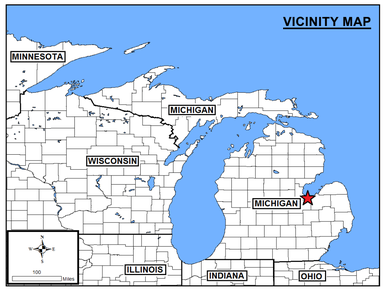
Microsoft, Vantor

43°40'20" N 83°49'40" W 43°40'30" N 83°49'30" W

SHEET INDEX



VICINITY MAP



LEGEND

- Cable Submarine
- Cable Overhead
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U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

Surveyed By: _____

Plotted By: _____

Checked By: _____

Submitted: _____

Recommended: _____
Chief, Survey Section

Approved: _____
Chief, Technical Services

Saginaw, MI
Saginaw River
SH_01_SAG_20260624_CS
24 June 2026

Sheet Reference Number
24 of 62

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CORPS OF ENGINEERS

U.S. ARMY

43°40'0" N

83°50'20" W

43°40'10" N

83°50'10" W

43°40'20" N

83°50'0" W

43°40'20" N

83°49'50" W

43°39'50" N

83°50'0" W

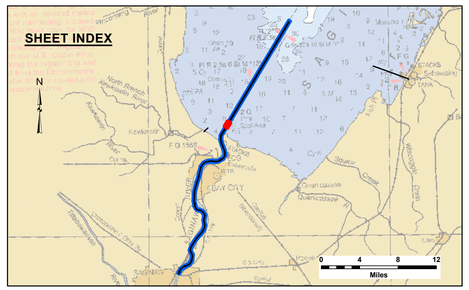
43°40'0" N

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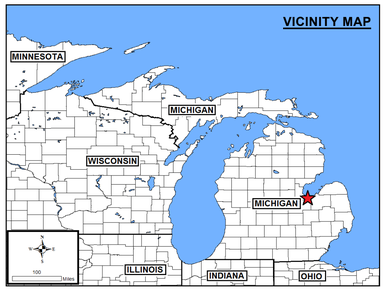
PROJECT DEPTH = 27.0'

Microsoft, Vantor

SHEET INDEX



VICINITY MAP



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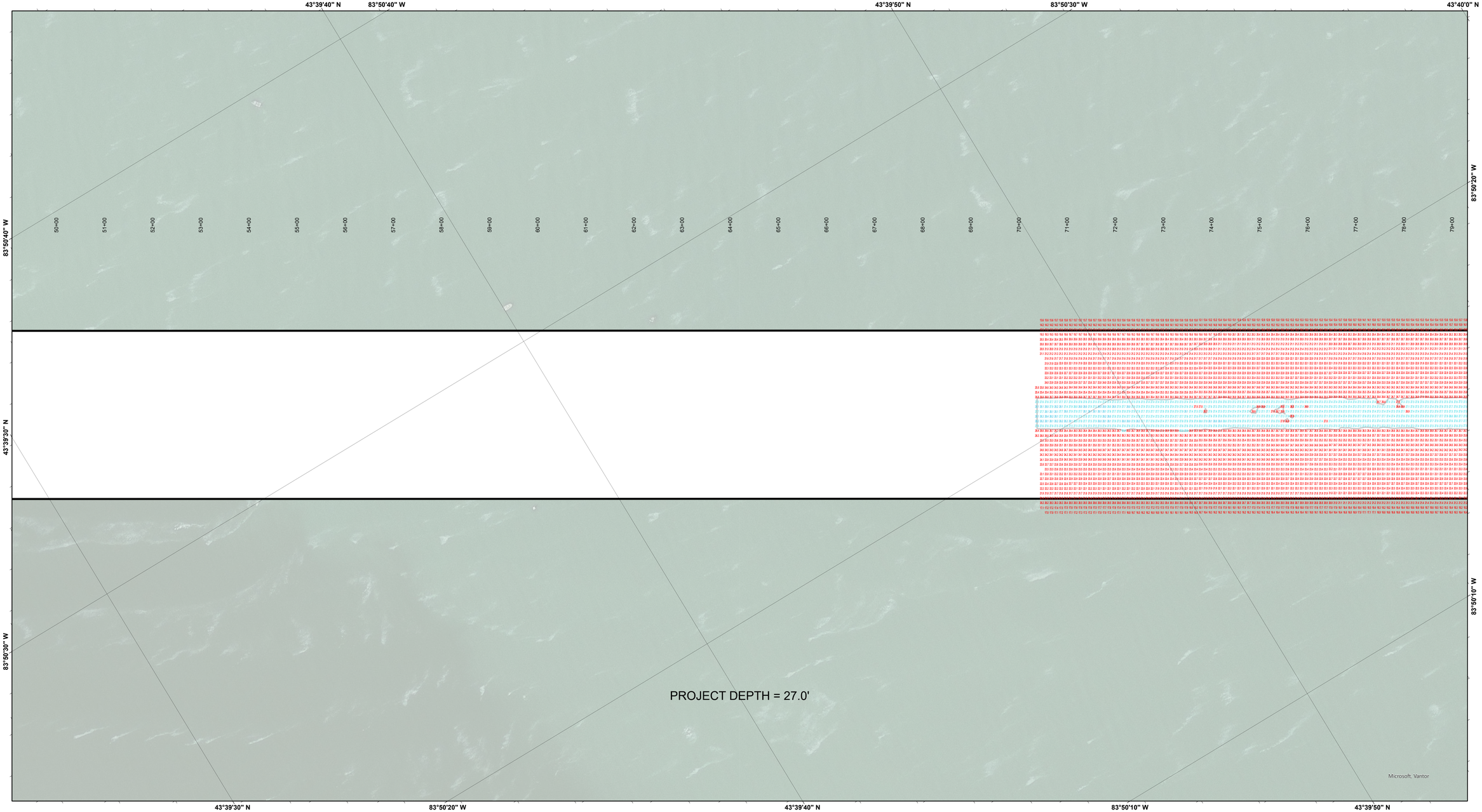
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DETROIT DISTRICT

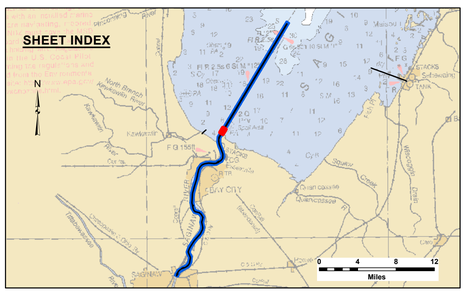
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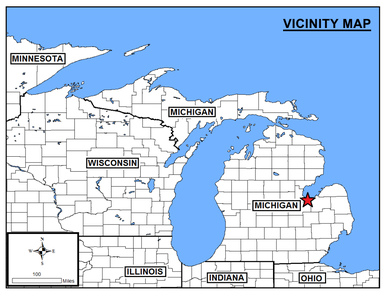
Saginaw, MI
Saginaw River
SH_01_SAG_20260624_CS
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Sheet Reference Number
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LEGEND

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