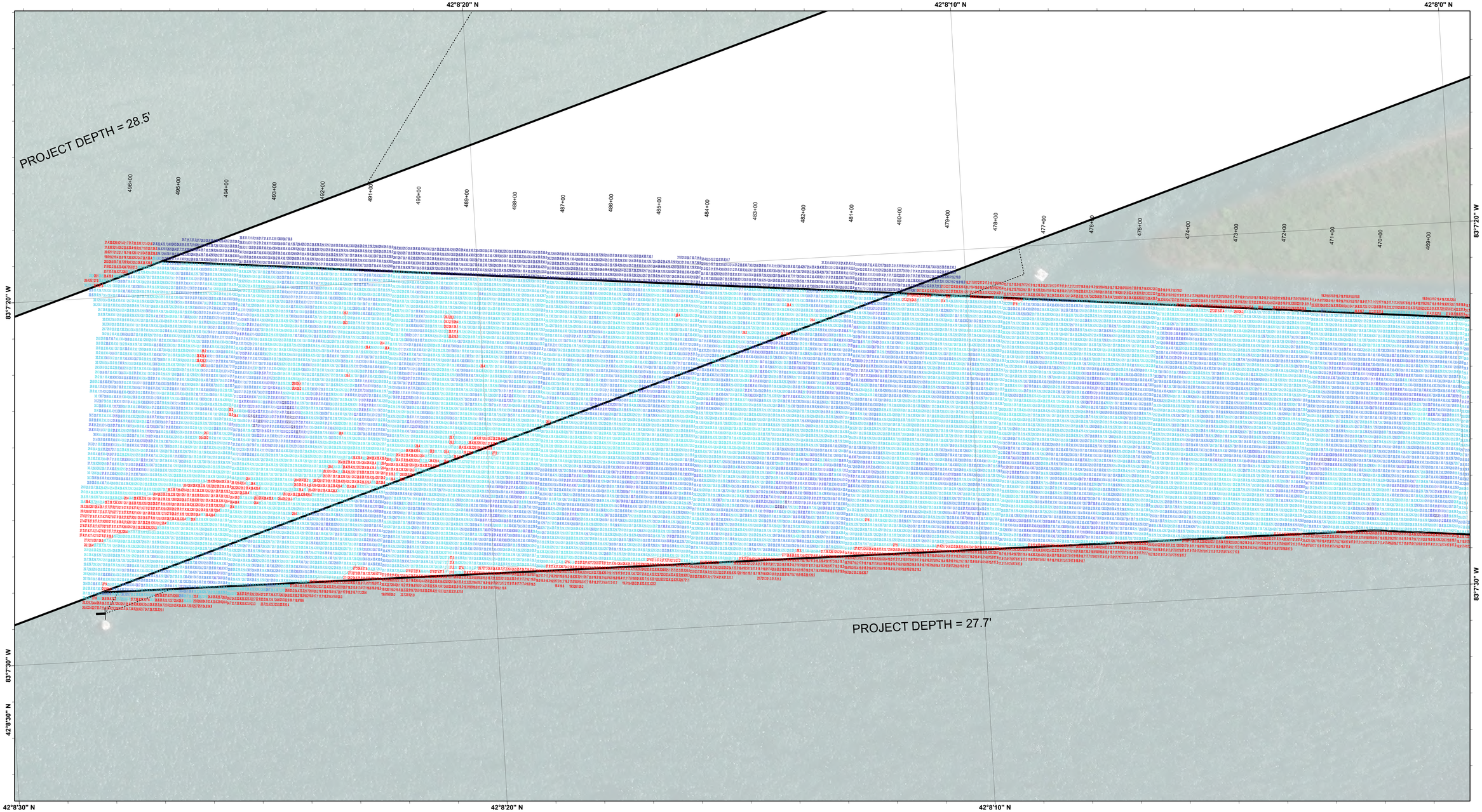
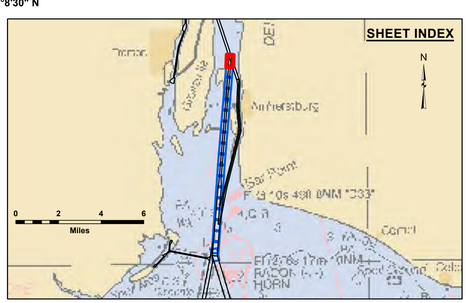
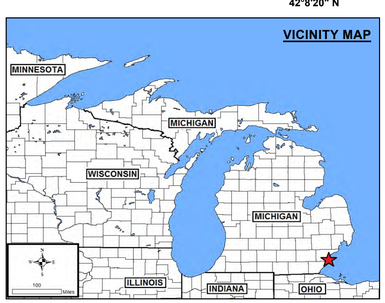






LEGEND

- 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 INDICATED HEREIN ARE GENERALIZED DEPTHS AND ARE NOT REPRESENTATIVE OF THE FULL DATASET. THE SOUNDINGS REPRESENT THE MINIMUM DEPTH FOUND WITHIN THE 10X10 FOOT AREA CENTERED ON THE TEXT, DERIVED FROM A 1X1 FOOT AVERAGE DATASET AT CELL CENTER. THIS MAP SHOULD NOT BE USED FOR CHANNEL CLEARANCE OR VOLUME COMPUTATIONS. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICE TO NAVIGATION INTERESTS.

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PROJECT DEPTHS FOR THE LIVINGSTONE CHANNEL = 27.7' & 29.0'

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

WYANDOTTE, MI (#9044030)
GIBRALTAR (#9044020)
FERMI POWER PLANT, MI (#9063090)
TEMPORARY GAGE BOARDS SET ALONG LIVINGSTON CHANNEL

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

AERIAL PHOTOGRAPHY DATA SOURCE: MAXAR, MICROSOFT

US Army Corps of Engineers District: CELRE

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DETROIT DISTRICT

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

Detroit River, MI
Livingston Channel
DR_01_LVC_20261008_CS
08 October 2026

Sheet Reference Number 1 of 19

Revision Number:
5.26.04.06-5.26.04.06

CORPS OF ENGINEERS

U.S. ARMY

42°8'0" N

42°7'50" N

42°7'40" N

83°7'20" W

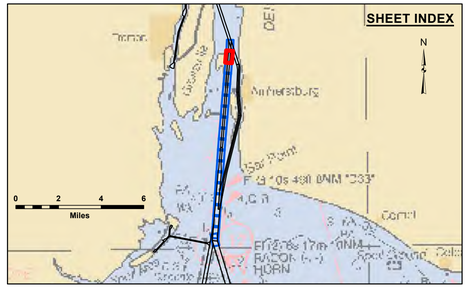
83°7'30" W

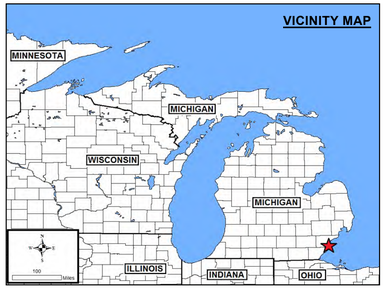
83°7'40" W

PROJECT DEPTH = 27.5'

PROJECT DEPTH = 27.7'

471+00 470+00 469+00 468+00 467+00 466+00 465+00 464+00 463+00 462+00 461+00 460+00 459+00 458+00 457+00 456+00 455+00 454+00 453+00 452+00 451+00 450+00 449+00 448+00 447+00 446+00 445+00 444+00 443+00 442+00 441+00





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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Feet

0 100 200 300 400 500 600

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SONAR: R2SONIC 2024 (MULTIBEAM TRANSDUCER)
SOFTWARE: HYPACK

AERIAL PHOTOGRAPHY DATA SOURCE: MAXAR, MICROSOFT

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		

Detroit River, MI
Livingston Channel
DR_01_LVC_20261008_CS
08 October 2026

Sheet Reference Number
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Revision Number:
5.26.04.06-5.26.04.06

CORPS OF ENGINEERS

U.S. ARMY

42°7'30" N

83°7'20" W

42°7'20" N

42°7'10" N

83°7'30" W

83°7'40" W

443+00 442+00 441+00 440+00 439+00 438+00 437+00 436+00 435+00 434+00 433+00 432+00 431+00 430+00 429+00 428+00 427+00 426+00 425+00 424+00 423+00 422+00 421+00 420+00 419+00 418+00 417+00 416+00 415+00 414+00

PROJECT DEPTH = 27.7'

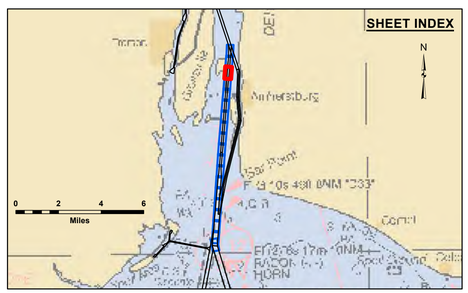
83°7'40" W

42°7'30" N

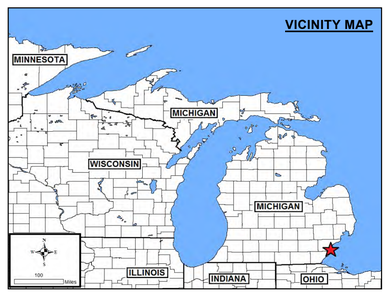
42°7'20" N

42°7'10" 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'

1 inch = 100 feet

Feet

0 100 200 300 400 500 600

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MOTION COMPENSATION: APPLANIX POS-MV4
SONAR: R2SONIC 2024 (MULTIBEAM TRANSDUCER)
SOFTWARE: HYPACK

AERIAL PHOTOGRAPHY DATA SOURCE: MAXAR, MICROSOFT

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

Detroit River, MI
Livingston Channel
DR_01_LVC_20261008_CS
08 October 2026

Sheet Reference Number
3 of 19

Revision Number:
5.26.04.06-5.26.04.06

CORPS OF ENGINEERS

U.S. ARMY

42°7'0" N

42°6'50" N

42°6'40" N

83°7'30" W

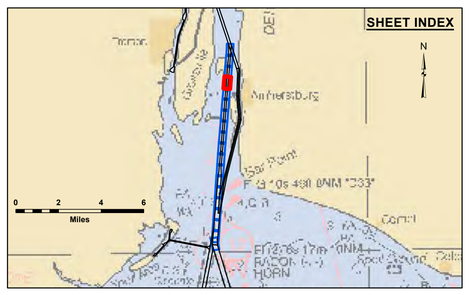
83°7'40" W

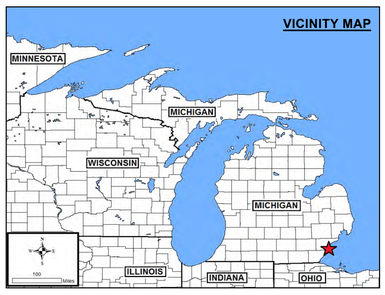
42°7'10" N

42°7'0" N

42°6'50" N

PROJECT DEPTH = 27.7'





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

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SONAR: R2SONIC 2024 (MULTIBEAM TRANSDUCER)
SOFTWARE: HYPACK

AERIAL PHOTOGRAPHY DATA SOURCE: MAXAR, MICROSOFT

US Army Corps of Engineers District: CELRE

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U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

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

Detroit River, MI
Livingston Channel
DR_01_LVC_20261008_CS
08 October 2026

Sheet Reference Number
4 of 19

Revision Number:
5.26.04.06-5.26.04.06

CORPS OF ENGINEERS

U.S. ARMY

42°6'40" N

42°6'30" N

42°6'20" N

83°7'30" W

83°7'40" W

83°7'50" W

389+00 388+00 387+00 386+00 385+00 384+00 383+00 382+00 381+00 380+00 379+00 378+00 377+00 376+00 375+00 374+00 373+00 372+00 371+00 370+00 369+00 368+00 367+00 366+00 365+00 364+00 363+00 362+00 361+00 360+00

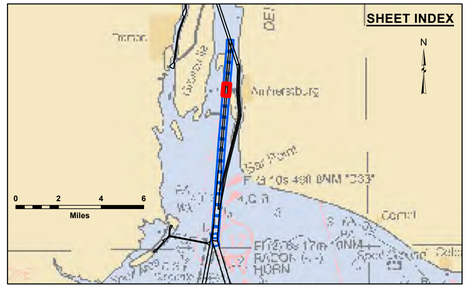
PROJECT DEPTH = 27.7'

42°6'40" N

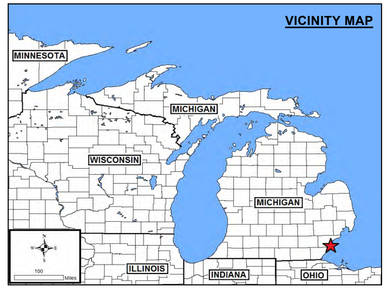
42°6'30" N

83°7'50" 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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E N S W

1 inch = 100 feet

Feet

0 100 200 300 400 500 600

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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

Detroit River, MI
Livingston Channel
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5 of 19

Revision Number:
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42°6'10" N 83°7'30" W 42°6'0" N 42°5'50" N

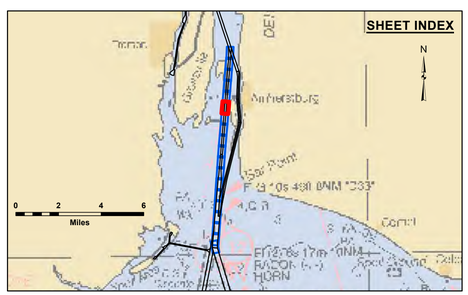
83°7'40" W 83°7'50" W

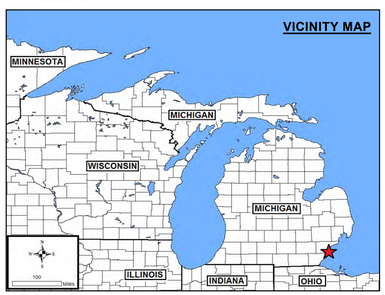
362+00 361+00 360+00 359+00 358+00 357+00 356+00 355+00 354+00 353+00 352+00 351+00 350+00 349+00 348+00 347+00 346+00 345+00 344+00 343+00 342+00 341+00 340+00 339+00 338+00 337+00 336+00 335+00 334+00 333+00

PROJECT DEPTH = 27.7'

42°6'10" N 42°6'0" N 42°5'50" N

83°7'50" W





LEGEND

- Cable Submarine
- Cable Overhead
- Placement Area
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- Channel Limits

SOUNDING LEGEND

- LESS THAN PROJECT DEPTH
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N E S W

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TEMPORARY GAGE BOARDS SET ALONG LIVINGSTON CHANNEL

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

AERIAL PHOTOGRAPHY DATA SOURCE: MAXAR, MICROSOFT

US Army Corps of Engineers
District: CELRE

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U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

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Plotted By: _____
Checked By: _____

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

Detroit River, MI
Livingston Channel
DR_01_LVC_20261008_CS
08 October 2026

Sheet Reference Number
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Revision Number:
5.26.04.06-5.26.04.06

CORPS OF ENGINEERS U.S. ARMY

42°5'40" N 42°5'30" N 42°5'20" N

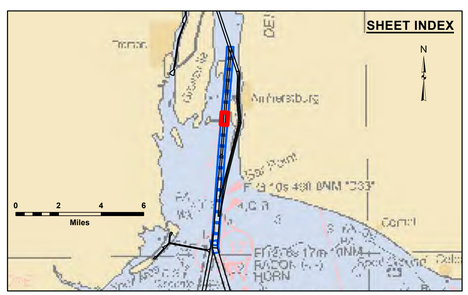
83°7'40" W 83°7'50" W 42°5'50" N

335+00 334+00 333+00 332+00 331+00 330+00 329+00 328+00 327+00 326+00 325+00 324+00 323+00 322+00 321+00 320+00 319+00 318+00 317+00 316+00 315+00 314+00 313+00 312+00 311+00 310+00 309+00 308+00 307+00 306+00 305+00

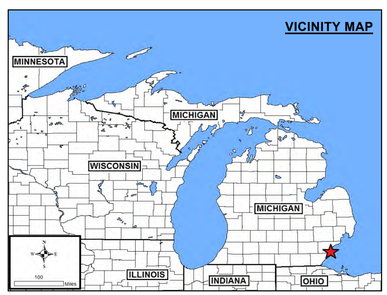
PROJECT DEPTH = 27.7'

42°5'50" N 42°5'40" N 42°5'30" 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'

E S W N

1 inch = 100 feet

Feet

0 100 200 300 400 500 600

NOTES: THE SOUNDINGS INDICATED HEREIN ARE GENERALIZED DEPTHS AND ARE NOT REPRESENTATIVE OF THE FULL DATASET. THE SOUNDINGS REPRESENT THE MINIMUM DEPTH FOUND WITHIN THE 10X10 FOOT AREA CENTERED ON THE TEXT, DERIVED FROM A 1X1 FOOT AVERAGE DATASET AT CELL CENTER. THIS MAP SHOULD NOT BE USED FOR CHANNEL CLEARANCE OR VOLUME COMPUTATIONS. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICE TO NAVIGATION INTERESTS.

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PROJECT DEPTHS FOR THE LIVINGSTONE CHANNEL = 27.7' & 29.0'

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

WYANDOTTE, MI (#9044030)
GIBRALTAR (#9044020)
FERMI POWER PLANT, MI (#9063090)
TEMPORARY GAGE BOARDS SET ALONG LIVINGSTON CHANNEL

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

AERIAL PHOTOGRAPHY DATA SOURCE: MAXAR, MICROSOFT

US Army Corps of Engineers District: CELRE

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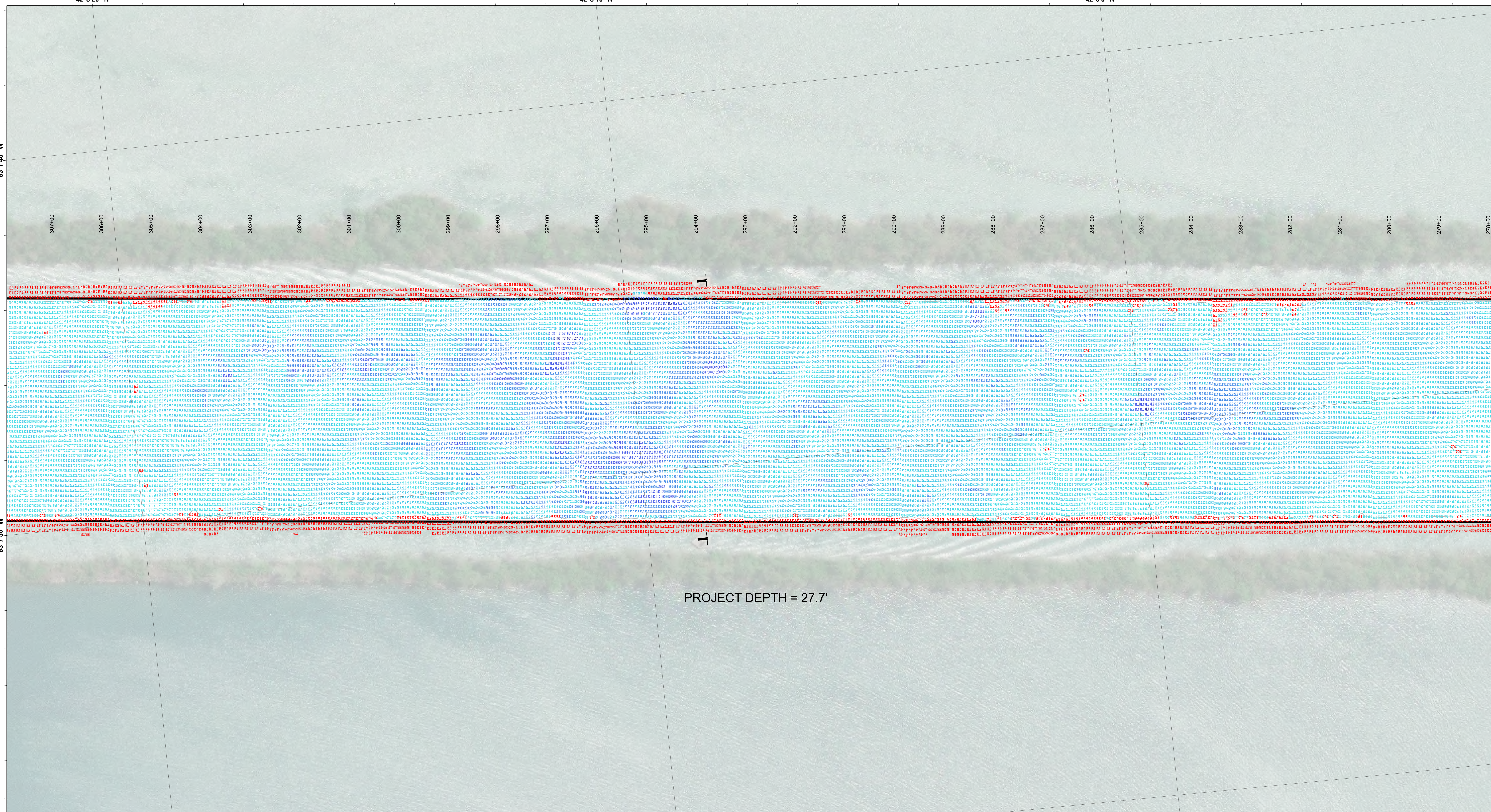
U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

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

Detroit River, MI
Livingston Channel
DR_01_LVC_20261008_CS
08 October 2026

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DETROIT DISTRICT

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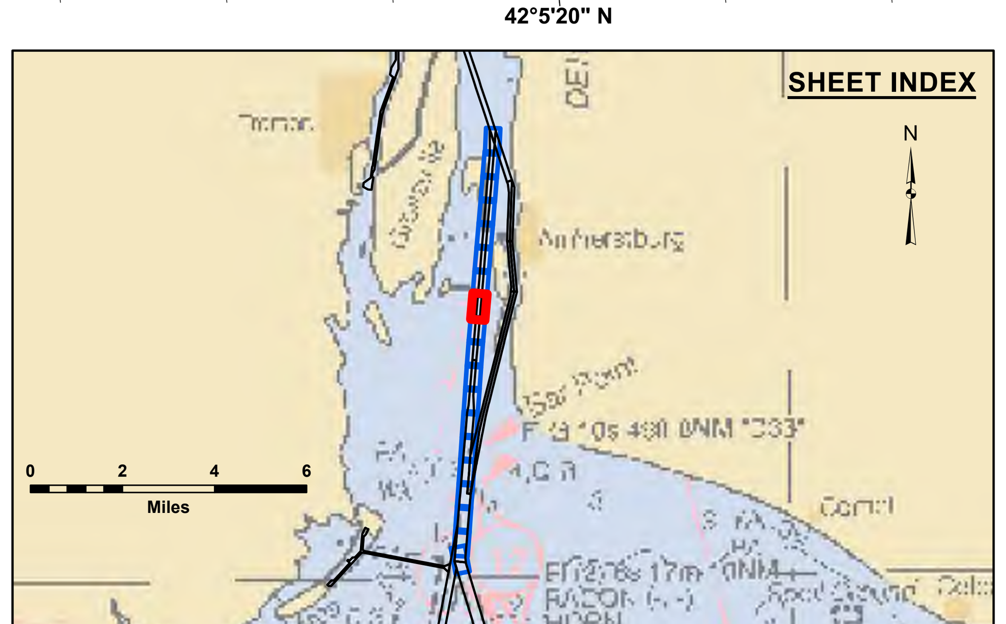
Submitted:

Recommended:
Chief, Survey Section

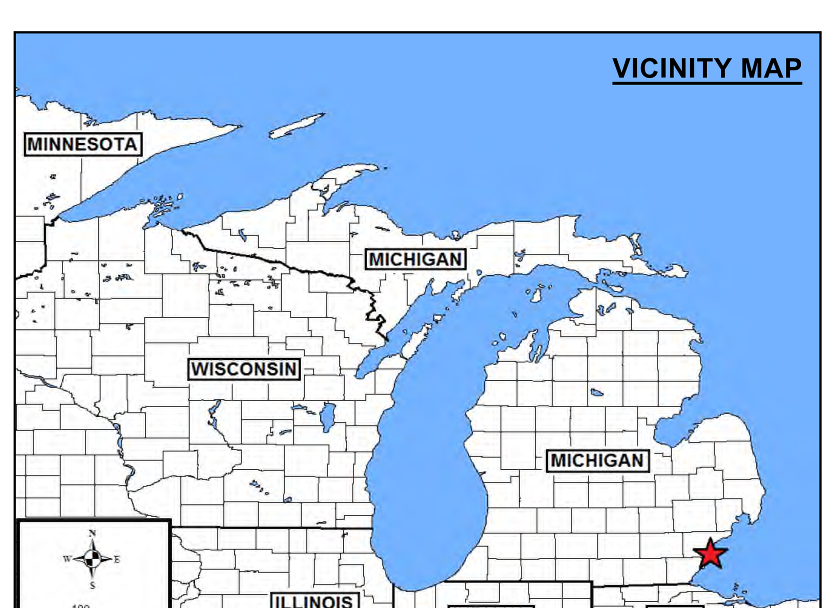
Approved:
Chief, Technical Services

Detroit River, MI
Livingston Channel
DR_01_LVC_20261008_CS
08 October 2026

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'

1 inch = 100 feet

Feet
0 100 200 300 400 500 600

NOTES: THE SOUNDINGS INDICATED HEREIN ARE GENERALIZED DEPTHS AND ARE NOT REPRESENTATIVE OF THE FULL DATASET. THE SOUNDINGS REPRESENT THE MINIMUM DEPTH FOUND WITHIN THE 10X10 FOOT AREA CENTERED ON THE TEXT, DERIVED FROM A 1X1 FOOT AVERAGE DATASET AT CELL CENTER. THIS MAP SHOULD NOT BE USED FOR CHANNEL CLEARANCE OR VOLUME COMPUTATIONS. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICE TO NAVIGATION INTERESTS.

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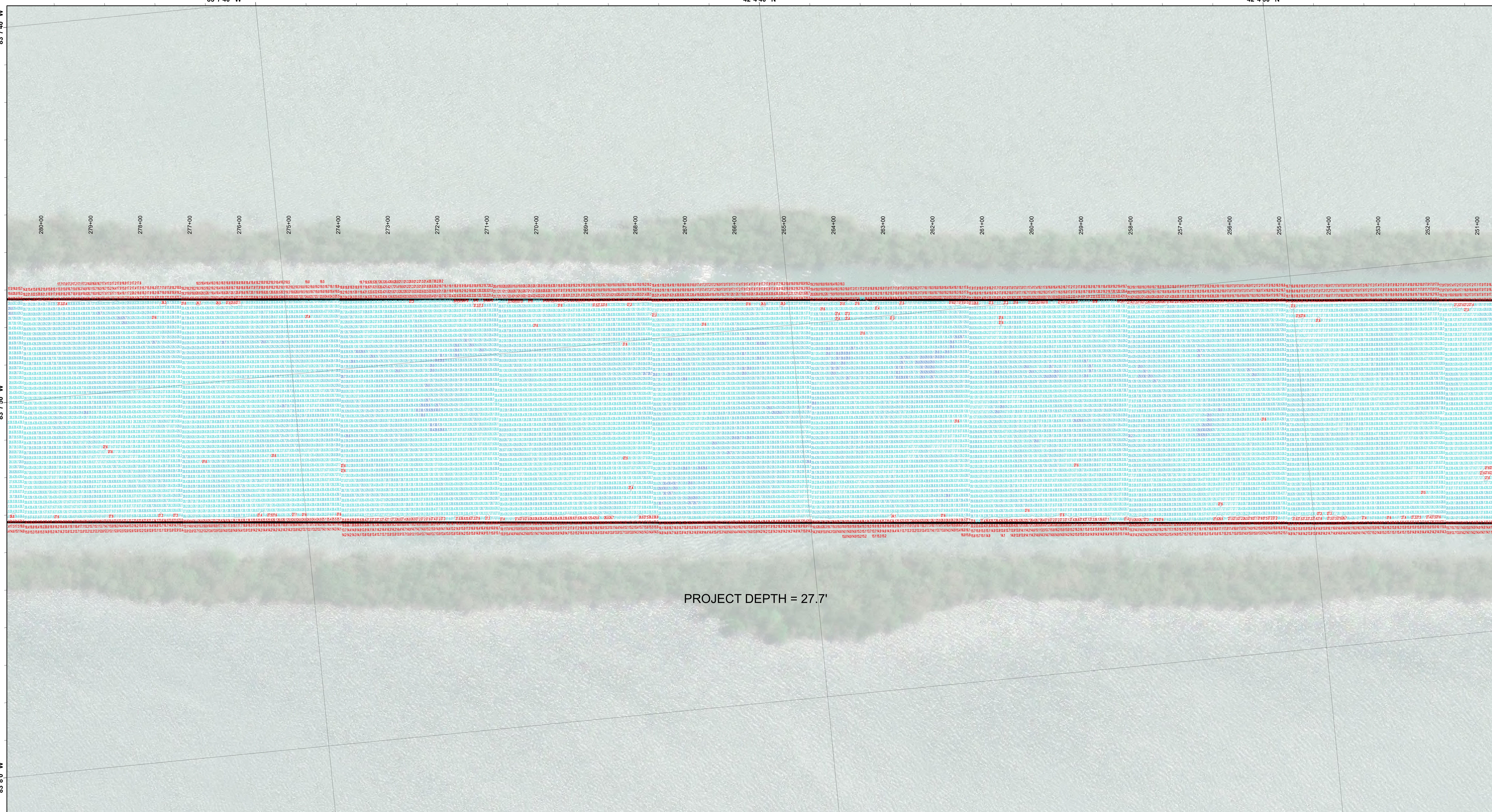
POSITIONING: APPLANIX POS-MV4 W/ VRS/RTK OR MARINESTAR GNSS.
MOTION COMPENSATION: APPLANIX POS-MV4
SONAR: R2SONIC 2024 (MULTIBEAM TRANSDUCER)
SOFTWARE: HYPACK

AERIAL PHOTOGRAPHY DATA SOURCE: MAXAR, MICROSOFT

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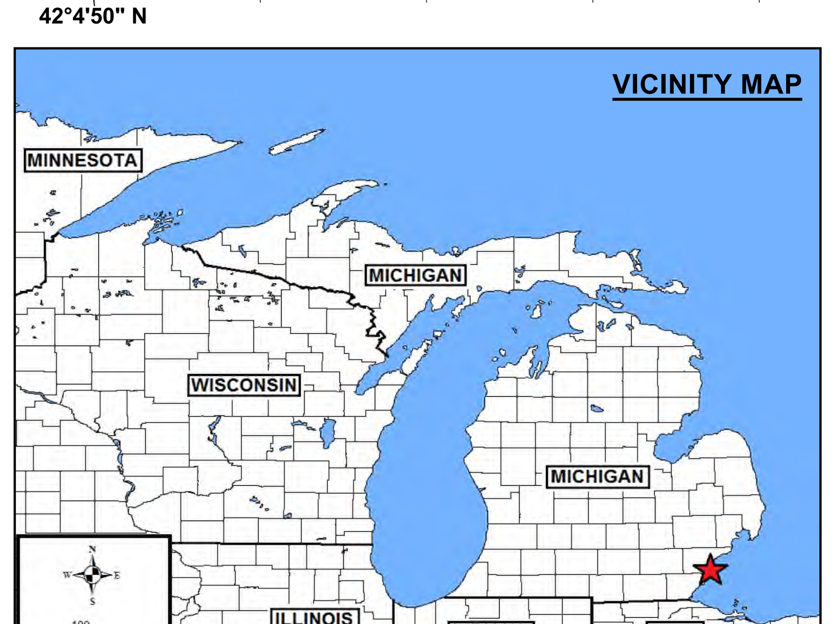
Revision Number:
5.26.04.06-5.26.04.06

83°7'40" W   42°4'40" N   42°4'30" N



83°7'40" W   83°7'50" W   83°8'0" W   42°4'50" N   42°4'40" N   42°4'30" N





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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1 inch = 100 feet

Feet: 0 100 200 300 400 500 600

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Plotted By: ____
Checked By: ____

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

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CORPS OF ENGINEERS

U.S. ARMY

42°4'20" N

42°4'10" N

42°4'0" N

83°7'50" W

83°8'0" W

253+00 252+00 251+00 250+00 249+00 248+00 247+00 246+00 245+00 244+00 243+00 242+00 241+00 240+00 239+00 238+00 237+00 236+00 235+00 234+00 233+00 232+00 231+00 230+00 229+00 228+00 227+00 226+00 225+00 224+00

PROJECT DEPTH = 27.7'

PROJECT DEPTH = 29.0'

42°4'20" N

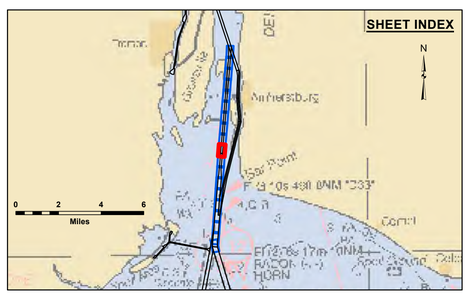
42°4'10" N

42°4'0" N

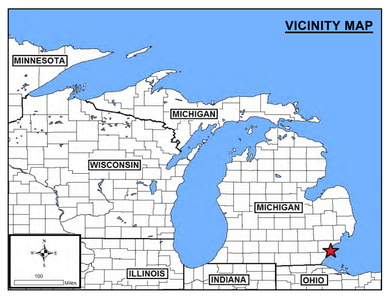
83°7'50" W

83°8'0" W

SHEET INDEX



VICINITY MAP



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N E S W

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