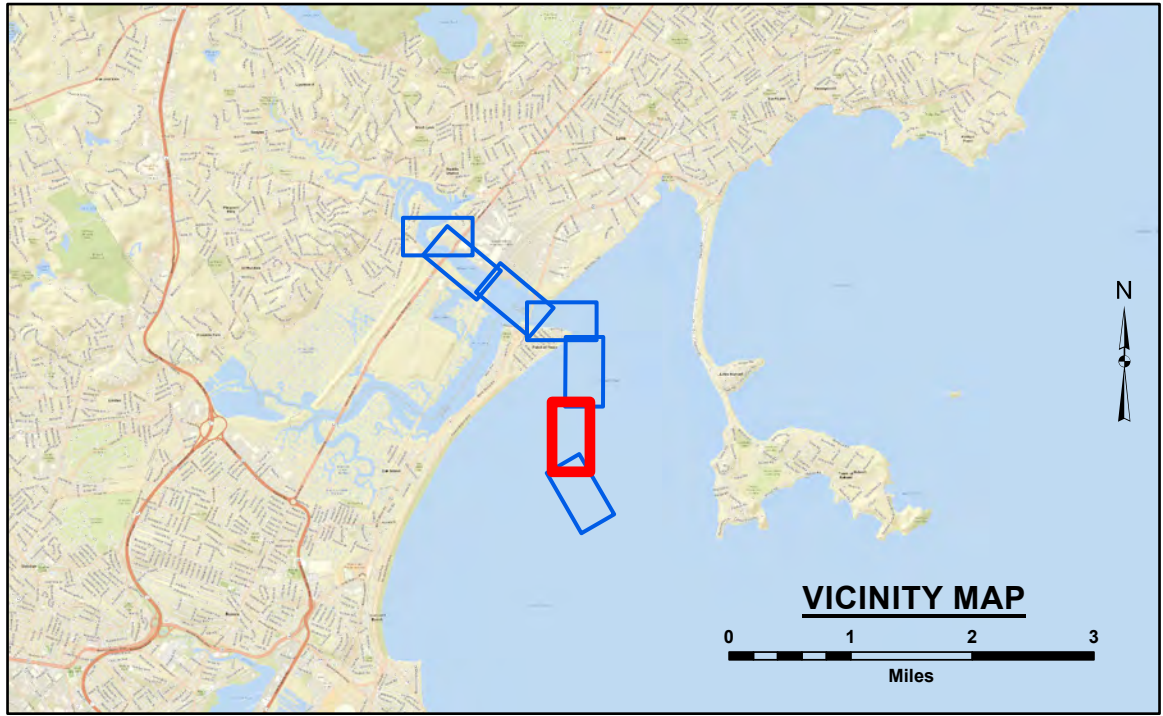
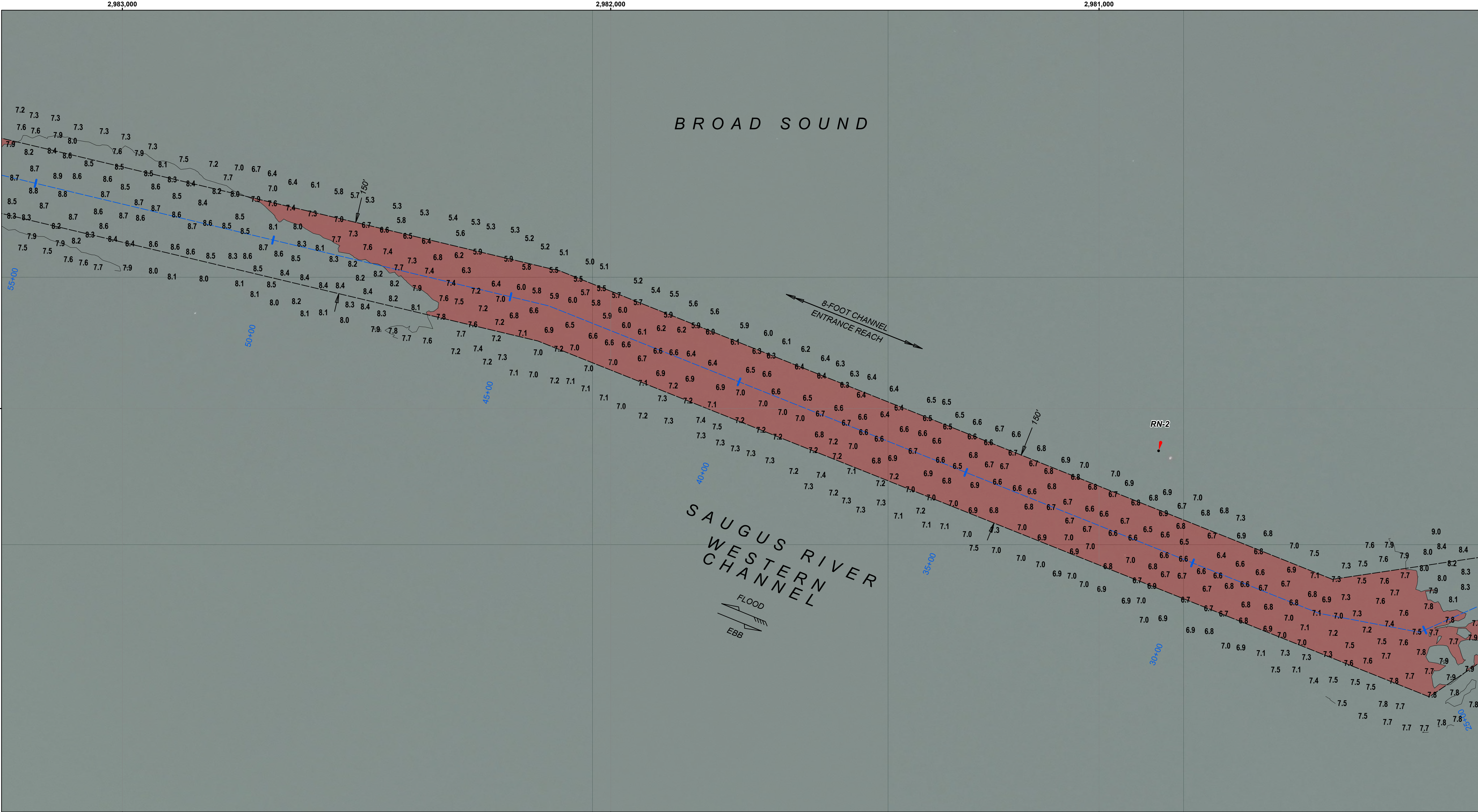




LEGEND

--- Federal Navigation Channel

..... Cable or Pipe Areas

- - - Channel Center Line

— Contour Line

— Marine Infrastructure*

⊗ Obstruction Point

✱ Fixed Navigation Aids

! Red Navigation Buoy

! Green Navigation Buoy

■ Shoaling Area

● Shoalest Sounding**

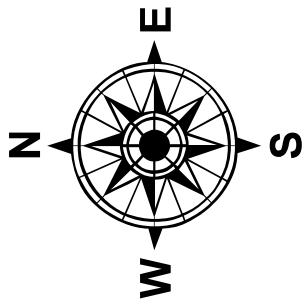
GRAPHIC SCALE

1" = 100'

100 0 100 200 Feet

** Shoalest Sounding per Quarter per Reach

** Present at time of Survey



Notes:
Horizontal Datum: Mass Mainland, MA-2001 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: POPHAM BEACH
Sonar System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS Tides
GPS System: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: MA_13_SAU_20250410_CS_013
Reference NOAA Chart No.: USSMATRF, USSBOSDD, USSBOSDE
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General Notes
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Project Remarks
Marine Infrastructure surveyed with LIDAR. Topographic survey data included with sounding coverage.

Water Level Information
Tides were recorded using RTK GPS. NAVD88 to MLLW corrections were logged utilizing NOAA's V-Datum regional model Maine/New Hampshire/Massachusetts Version 2.3. The NAVD88 to MLLW correction for the project ranges from 5.29 to 5.30 Feet. MLLW is below NAVD88; therefore, the correction should be added to NAVD88 to convert to MLLW (e.g. -10 NAV88 = -8 MLLW when using a 2-foot correction).

US Army Corps of Engineers
District: CENAE

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Accuracy: The data is not to be used for any purpose other than that for which it was provided. The recipient may not transfer these data to others without also transferring the Disclaimer.

U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT		SURVEYED BY: MJO	CHECKED BY: ZSM	ISSUE DATE: 5/9/2025
SUBMITTED BY: Barrett Morse		MA DOCUMENT MA_13_SAU_20250410_CS_013		
APPROVED BY: NAE Survey		SIZE A1 STD		

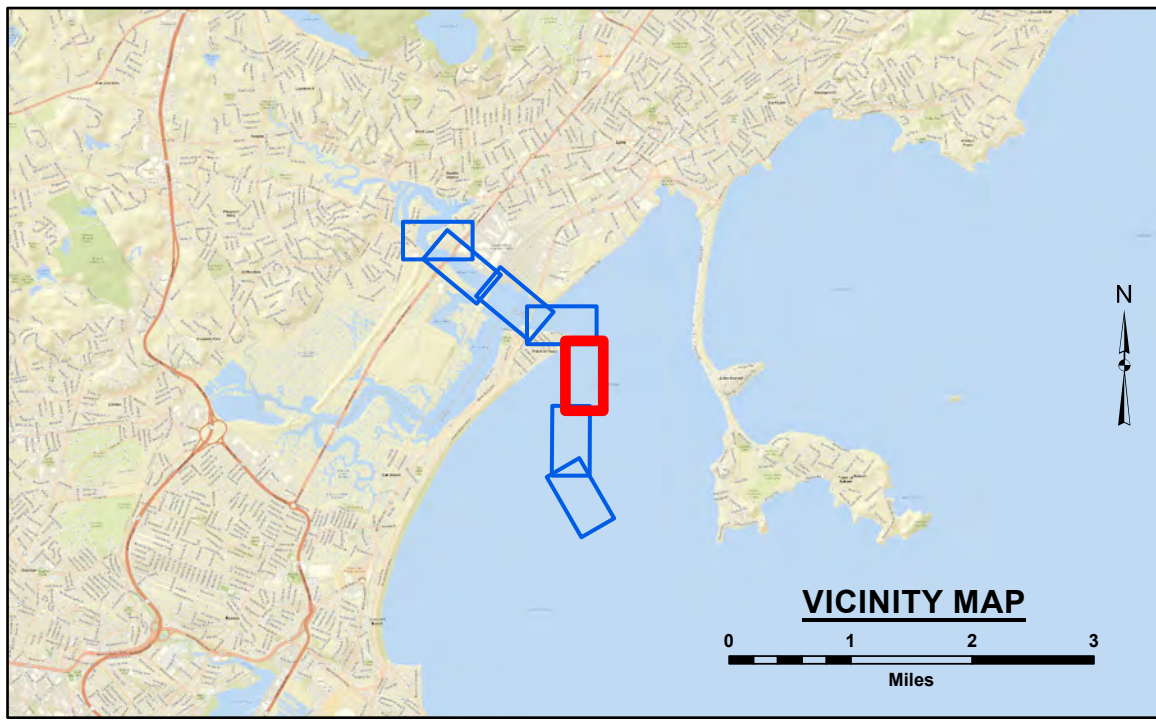
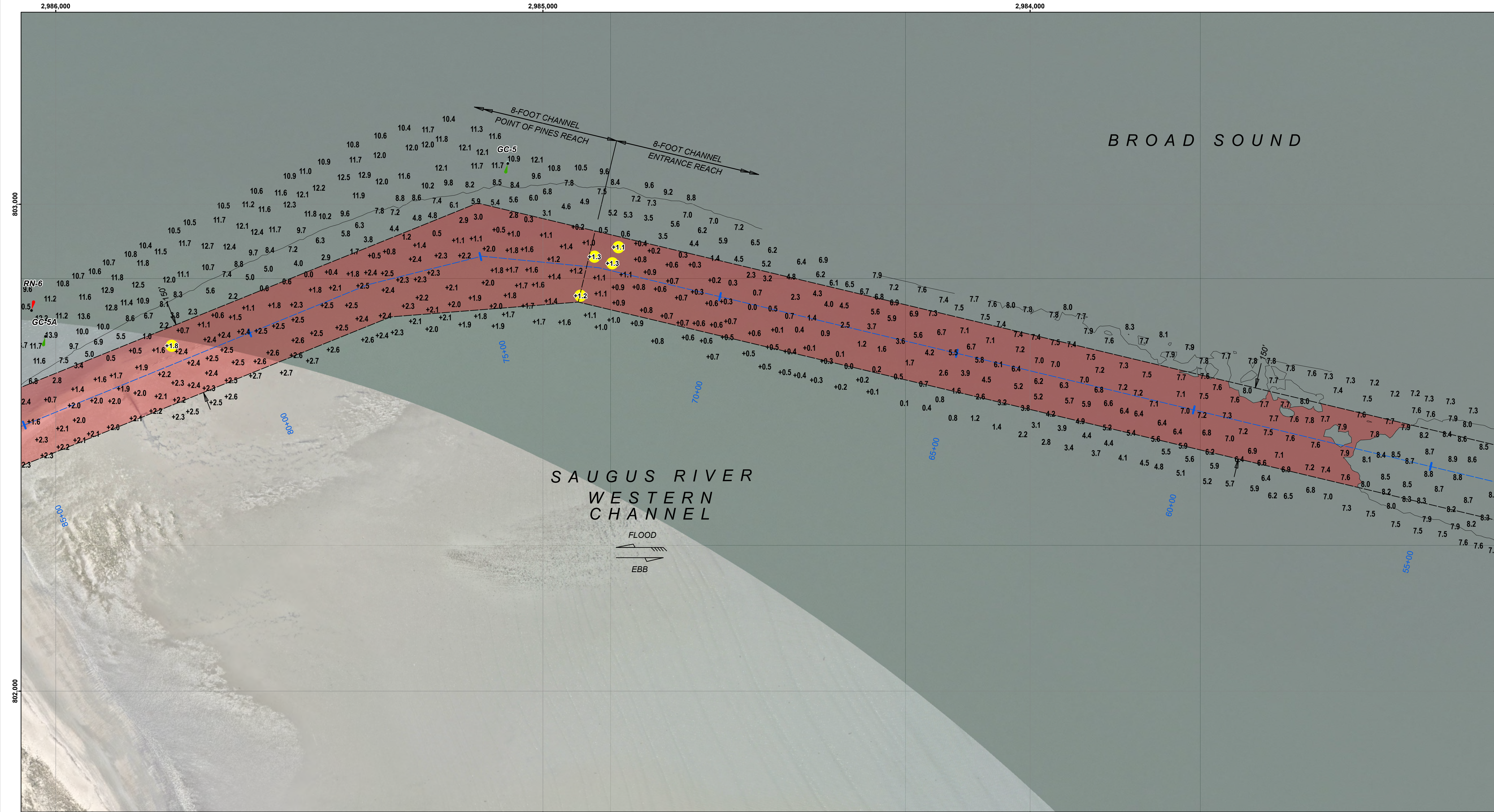
**SAUGUS RIVER
SAUGUS, LYNN AND REVERE,
MASSACHUSETTS
CONDITION SURVEY**

**8 AND 6-FOOT CHANNELS
6-FOOT ANCHORAGES**

File Name: MA_13_SAU_20250410_CS_013

**SHEET
IDENTIFICATION**
Saugus River

Sheet 2 of 7



LEGEND

--- Federal Navigation Channel

..... Cable or Pipe Areas

- - - Channel Center Line

— Contour Line

— Marine Infrastructure*

⊗ Obstruction Point

⊗ Fixed Navigation Aids

! Red Navigation Buoy

! Green Navigation Buoy

Shoaling Area

● Shoalest Sounding**

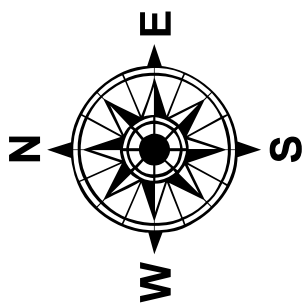
GRAPHIC SCALE

1" = 100'

0 100 200 Feet

** Shoalest Sounding per Quarter per Reach

** Present at time of Survey



Notes:

Horizontal Datum: Mass Mainland, MA-2001 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: POPHAM BEACH
Sonar System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS Tides
GPS System: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: MA_13_SAU_20250410_CS_013
Reference NOAA Chart No.: USSMATRF, USSBOSDD, USSBOSDE

The information depicted on these charts represents the results of surveys made on the dates indicated, and can only be considered as indicating the conditions existing at that time.

General Notes

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Project Remarks

Marine Infrastructure surveyed with LIDAR. Topographic survey data included with sounding coverage.

Water Level Information

Tides were recorded using RTK GPS. NAVD88 to MLLW corrections were logged utilizing NOAA's V-Datum regional model Maine/New Hampshire/Massachusetts Version 2.3. The NAVD88 to MLLW correction for the project ranges from 5.29 to 5.30 Feet. MLLW is below NAVD88; therefore, the correction should be added to NAVD88 to convert to MLLW (e.g.-10 NAV88 = -8 MLLW when using a 2-foot correction).



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U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT			
SUBMITTED BY:	BARRETT MOORE	CHECKED BY:	ZSM
APPROVED BY:	NAE SURVEY	ISSUE DATE:	5/9/2025
SIZE:	MA_13_SAU_20250410_CS_013	MAP DOCUMENT:	MA_13_SAU_20250410_CS_013

**SAUGUS RIVER
SAUGUS, LYNN AND REVERE,
MASSACHUSETTS
CONDITION SURVEY**

**8 AND 6-FOOT CHANNELS
6-FOOT ANCHORAGES**

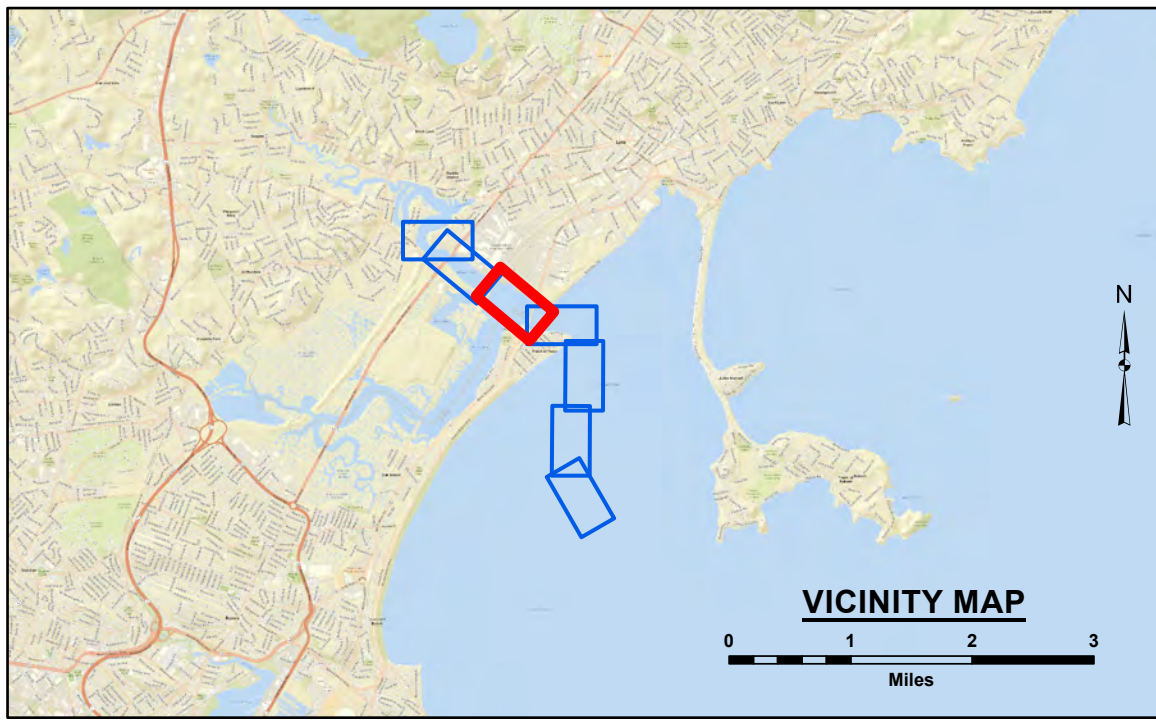
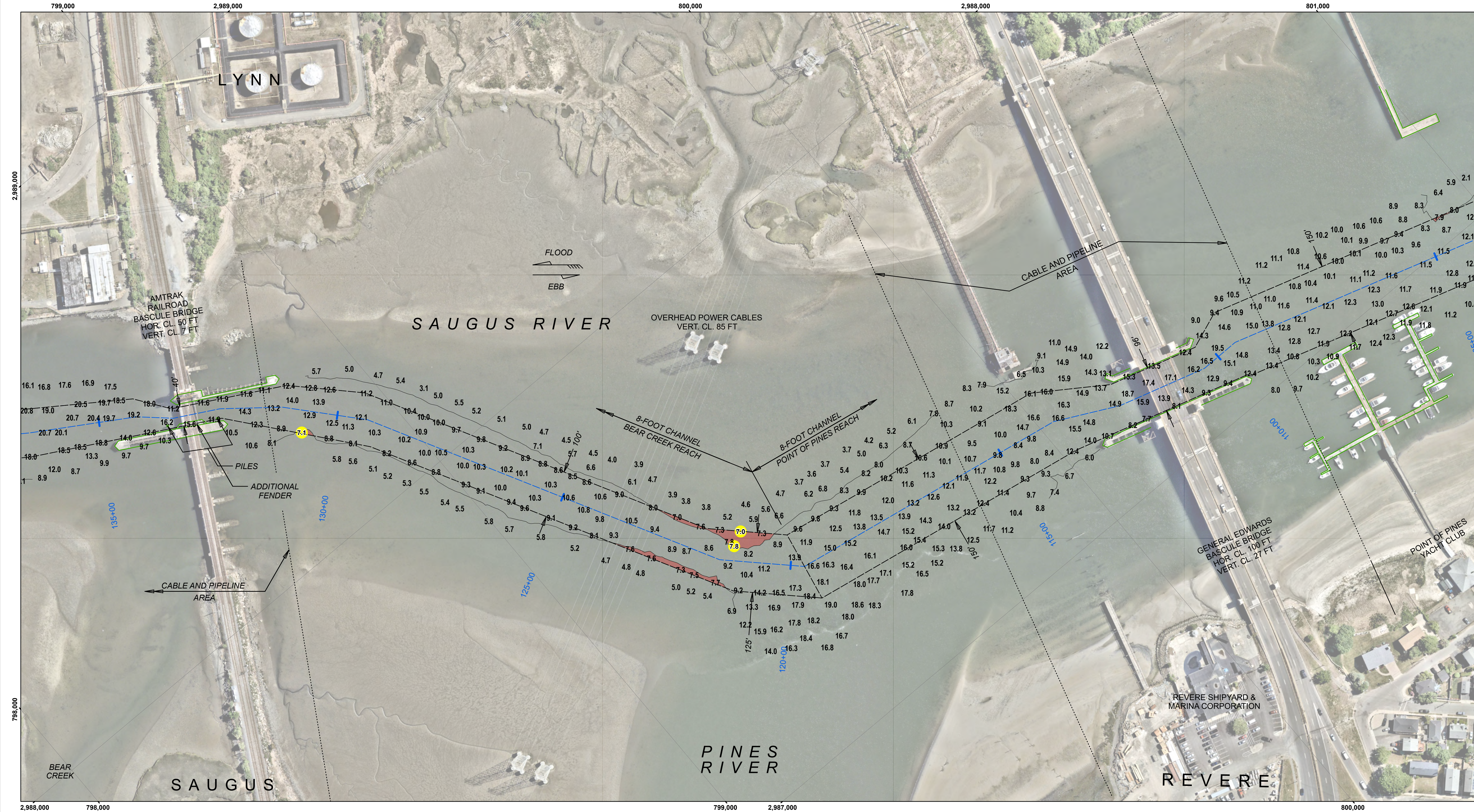
File Name: MA_13_SAU_20250410_CS_013

**SHEET
IDENTIFICATION**

Saugus River

Sheet 3 of 7





LEGEND

--- Federal Navigation Channel

..... Cable or Pipe Areas

--- Channel Center Line

— Contour Line

— Marine Infrastructure*

⊗ Obstruction Point

⊗ Fixed Navigation Aids

! Red Navigation Buoy

! Green Navigation Buoy

■ Shoaling Area

● Shoalest Sounding**

1" = 100'

GRAPHIC SCALE

0 100 200 Feet

** Shoalest Sounding per Quarter per Reach

** Present at time of Survey

Notes:

Horizontal Datum: Mass Mainland, MA-2001 NAD 83

Distance Units: U.S. Survey Feet

Vertical Datum: MLLW

Depth Units: U.S. Survey Feet

Vessel Name: POPHAM BEACH

Sonar System: Reson T50 (Multibeam Sonar)

Sounding Frequency: 300 kHz

Survey Method: RTK GPS Tides

GPS System: Trimble SPS 855 (RTK)

RTK Base Station: MTS Smartnet Max

Software Used: Hypack

Sounding Sort Distance: 30'

Field Books: R&H 4985

Survey No.: MA_13_SAU_20250410_CS_013

Reference NOAA Chart No.: USSMATRF, USSBOSDD, USSBOSDE

The information depicted on these charts represents the results of surveys made on the dates indicated, and can only be considered as indicating the conditions existing at that time.

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Project Remarks

Marine Infrastructure surveyed with LIDAR. Topographic survey data included with sounding coverage.

Water Level Information

Tides were recorded using RTK GPS. NAVD88 to MLLW corrections were logged utilizing NOAA's V-Datum regional model Maine/New Hampshire/Massachusetts Version 2.3. The NAVD88 to MLLW correction for the project ranges from 5.29 to 5.30 Feet. MLLW is below NAVD88; therefore, the correction should be added to NAVD88 to convert to MLLW (e.g. -10 NAV88 = -8 MLLW when using a 2-foot correction).

US Army Corps of Engineers

District: CENAE

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U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT			
SUBMITTED BY:	BARRETT MORSE	CHECKED BY:	ZSM
APPROVED BY:	NAE SURVEY	ISSUE DATE:	5/9/2025
SIZE:	AS D	MAP DOCUMENT:	MA_13_SAU_20250410_CS_013

SAUGUS RIVER

SAUGUS, LYNN AND REVERE,

MASSACHUSETTS

CONDITION SURVEY

8 AND 6-FOOT CHANNELS

6-FOOT ANCHORAGES

File Name: MA_13_SAU_20250410_CS_013

SHEET

IDENTIFICATION

Saugus River

Sheet 5 of 7



LEGEND

--- Federal Navigation Channel

..... Cable or Pipe Areas

--- Channel Center Line

— Contour Line

— Marine Infrastructure*

⊗ Obstruction Point

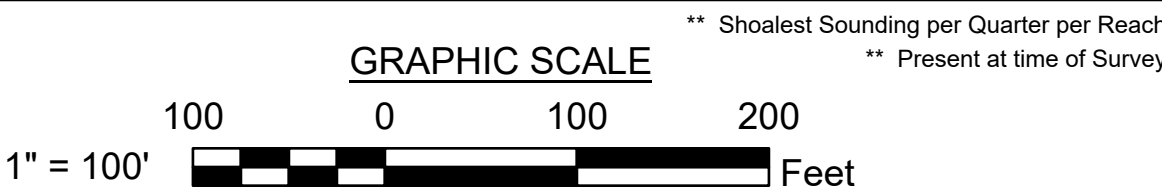
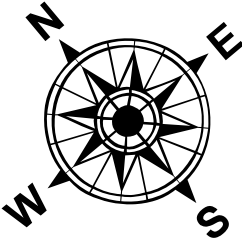
⊗ Fixed Navigation Aids

! Red Navigation Buoy

! Green Navigation Buoy

■ Shoaling Area

● Shoalest Sounding**



Notes:
Horizontal Datum: Mass Mainland, MA-2001 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: POPHAM BEACH
Sonar System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS Tides
GPS System: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: MA_13_SAU_20250410_CS_013
Reference NOAA Chart No.: USSMATRF, US5BOSDD, USSBOSDE
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Project Remarks
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Water Level Information
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US Army Corps of Engineers
District: CENAE

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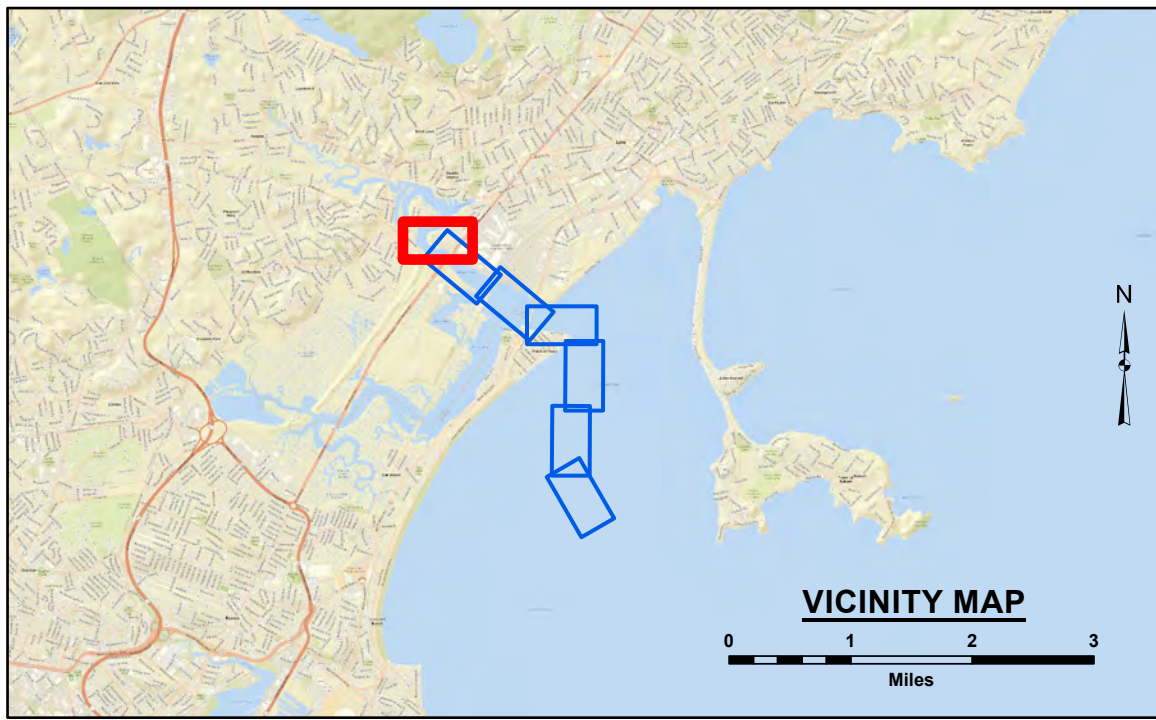
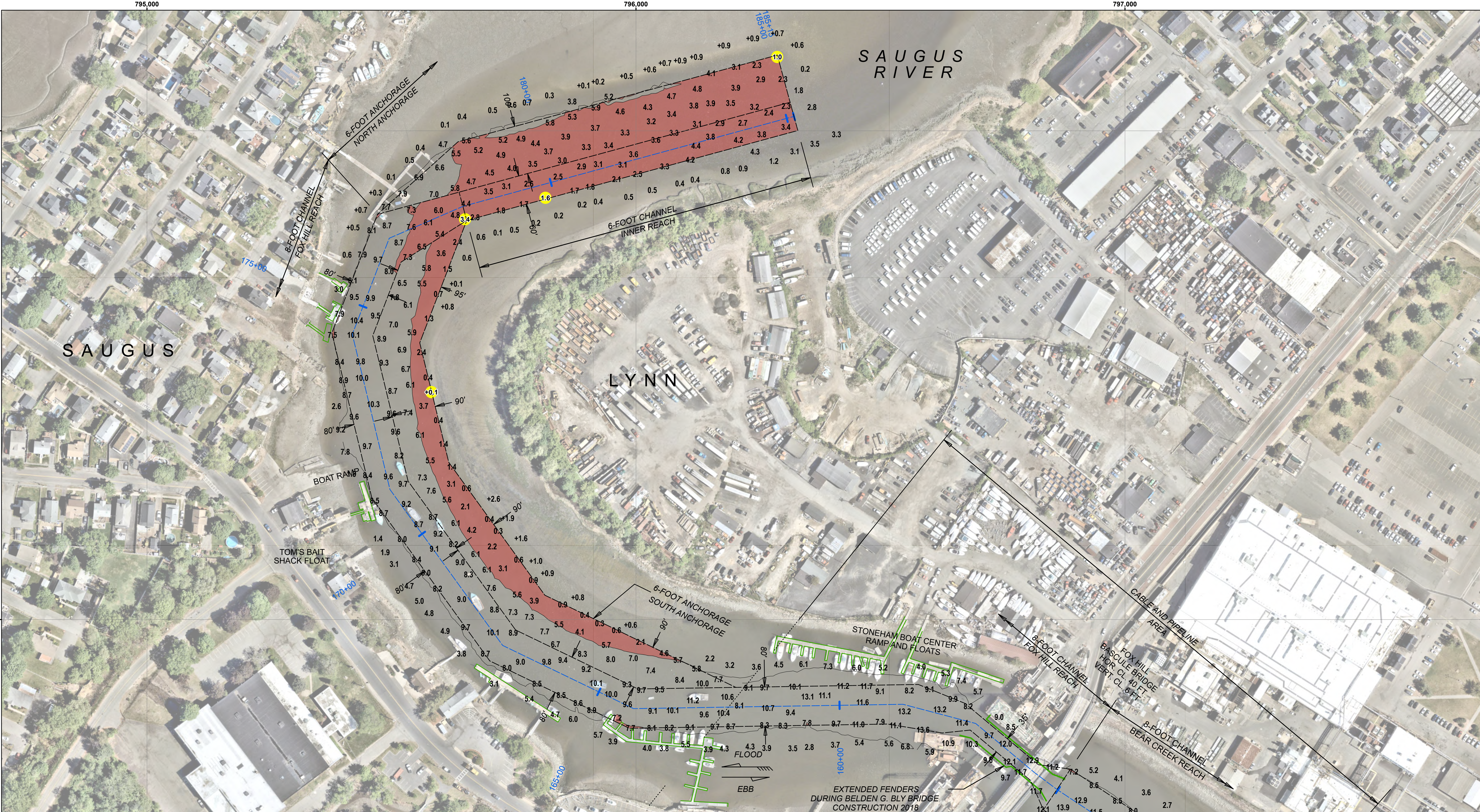
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT			
SUBMITTED BY: Barrett Morse		SURVEYED BY: MJO	
APPROVED BY: NAE Survey		CHECKED BY: ZSM	
SIZE: A11D	MAP DOCUMENT: MA_13_SAU_20250410_CS_013		ISSUE DATE: 5/9/2025

SAUGUS RIVER
SAUGUS, LYNN AND REVERE,
MASSACHUSETTS
CONDITION SURVEY

8 AND 6-FOOT CHANNELS
6-FOOT ANCHORAGES

File Name: MA_13_SAU_20250410_CS_013

SHEET IDENTIFICATION
Saugus River



LEGEND

--- Federal Navigation Channel

..... Cable or Pipe Areas

--- Channel Center Line

— Contour Line

— Marine Infrastructure*

⊗ Obstruction Point

✱ Fixed Navigation Aids

! Red Navigation Buoy

! Green Navigation Buoy

■ Shoaling Area

● Shoalest Sounding**

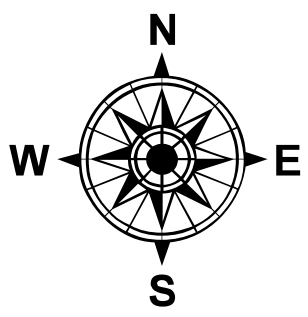
1" = 100'

GRAPHIC SCALE

0 100 200 Feet

** Shoalest Sounding per Quarter per Reach

** Present at time of Survey



Notes:
Horizontal Datum: Mass Mainland, MA-2001 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: POPHAM BEACH
Sonar System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS Tides
GPS System: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: MA_13_SAU_20250410_CS_013
Reference NOAA Chart No.: USSMATRF, US5BOSDD, US5BOSDE
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US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT	SUBMITTED BY: MJO	CHECKED BY: ZSM	ISSUE DATE: 5/9/2025
	APPROVED BY: NAE Survey	MAP DOCUMENT MA_13_SAU_20250410_CS_013	
	SIZE: A1 STD		

**SAUGUS RIVER
SAUGUS, LYNN AND REVERE,
MASSACHUSETTS
CONDITION SURVEY**

**8 AND 6-FOOT CHANNELS
6-FOOT ANCHORAGES**

File Name: MA_13_SAU_20250410_CS_013

**SHEET
IDENTIFICATION**
Saugus River

Sheet 7 of 7