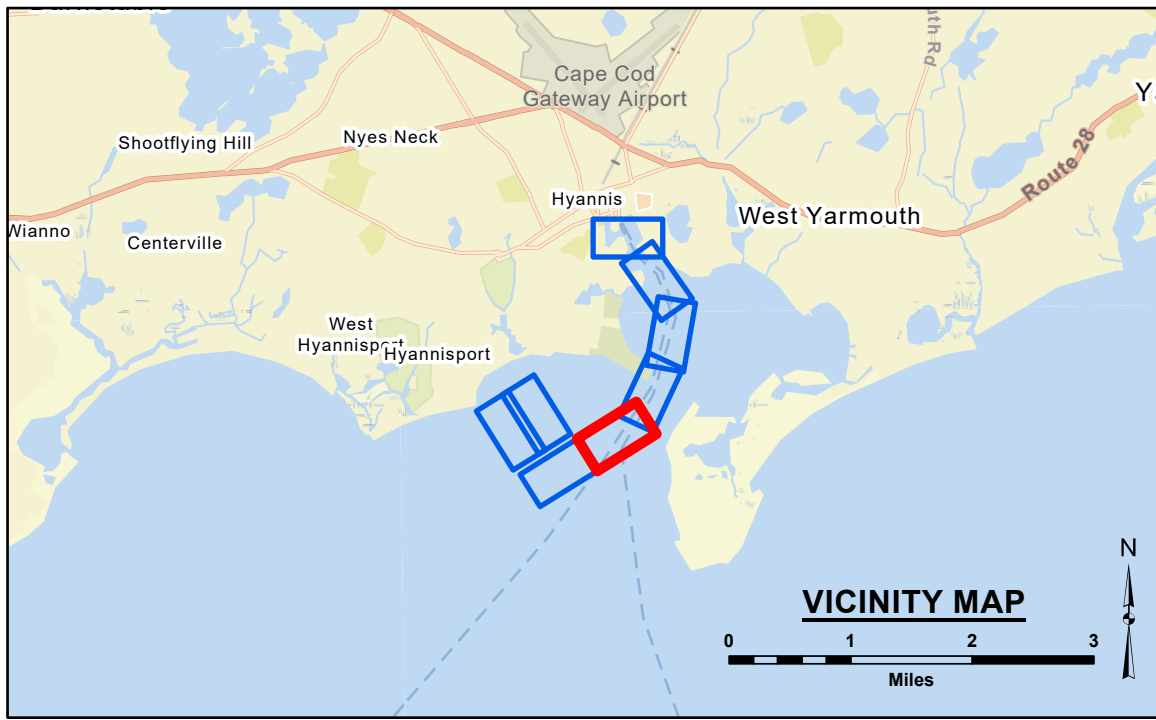
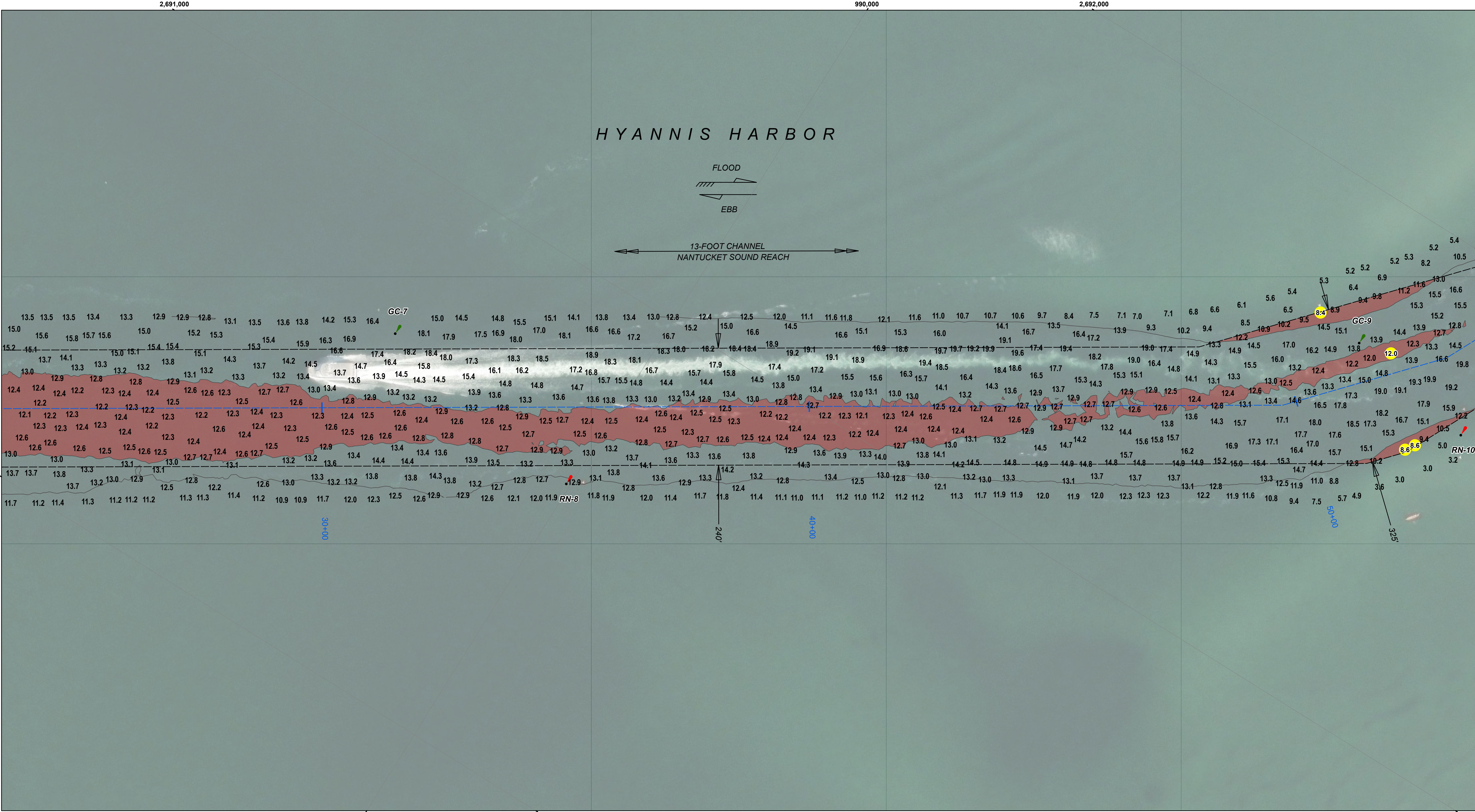




LEGEND

--- Federal Navigation Channel

--- Channel Center Line

--- Marine Infrastructure*

..... Cable or Pipeline Area

— Contour Line

⊗ Obstruction Point

⊗ Fixed Navigation Aids

! Red Navigation Buoy*

! Green Navigation Buoy*

! Yellow 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: SV Kennebec
Sonar System: Reson TS50 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS Tides
GPS System: INS Integrated Reson (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4986
Survey No.: MA_48_HYA_20260429_CS_022
Reference: USSMA1FO, USSMA1FP, USSMA1GO, USSMA1GP

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
Survey includes areas not displayed including Craigsville placement site, and two haul routes between placement and federal navigation project. Marine infrastructure surveyed with lidar in 2023, still present.

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 corrections for the project range from 2.21 to 2.25 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

DISCLAIMER
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U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT				
SUBMITTED BY: Zachary McAvoy	SURVEYED BY: MJO		ISSUE DATE: 5/6/2026	
	CHECKED BY: BTM			
APPROVED BY: NAE Survey		MAP DOCUMENT MA_48_HYA_20260429_CS_022		
SIZE A1SD				

HYANNIS HARBOR
HYANNIS (BARNSTABLE) AND
YARMOUTH, MASSACHUSETTS
CONDITION SURVEY

13-FOOT CHANNELS AND TURNING BASIN
12 AND 15.5-FOOT ANCHORAGES

File Name: MA_48_HYA_20260429_CS_022

SHEET IDENTIFICATION
Hyannis Harbor

Sheet 2 of 8

Revision Number: 5.26.04.06-5.26.04.06

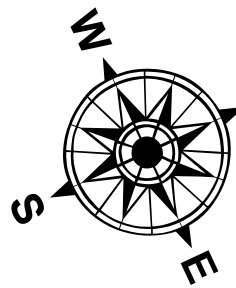
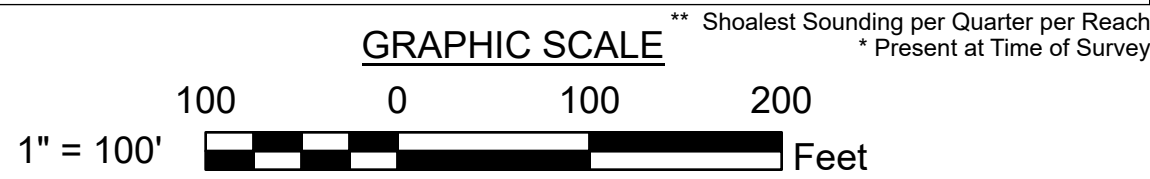
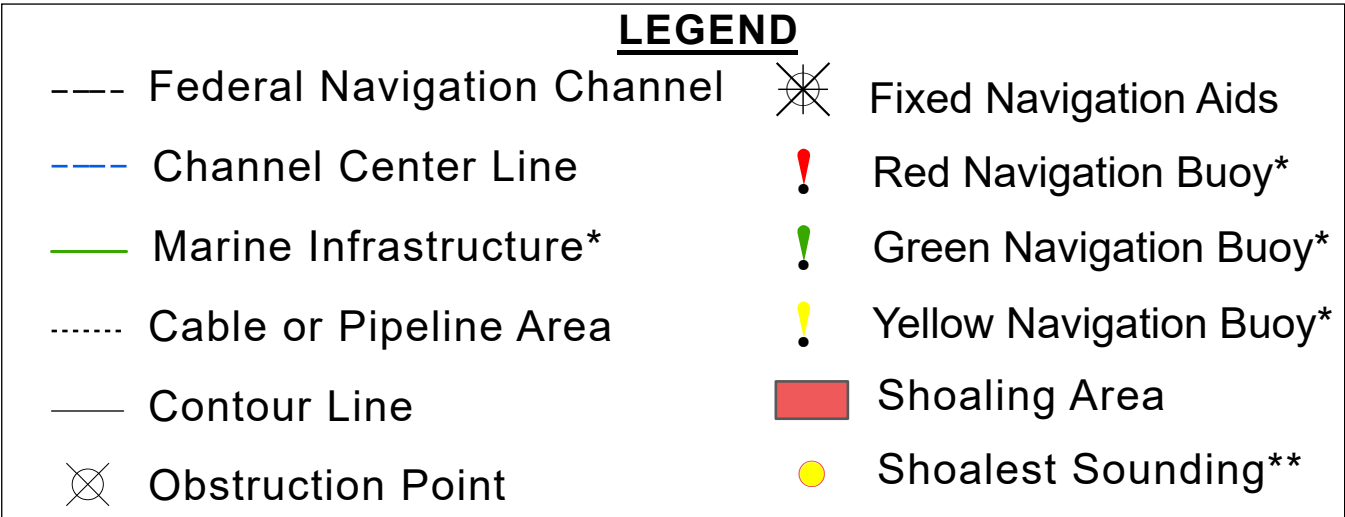


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U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT		SUBMITTED BY: Zachary McAvoy _____ APPROVED BY: NAE Survey _____	SURVEYED BY: MJO _____ CHECKED BY: BTM _____	ISSUE DATE: 5/8/2026
SIZE: ANSI D	MAP DOCUMENT: MA_4617NA_C0260441_CS_022			

**SHEET
IDENTIFICATION**
Hyannis Harbor

Sheet 3 of 8



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: SV Kennebec
Sonar System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS Tides
GPS System: INS Integrated Reson (RTK)
RTK Base Station: US S Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4986
Survey No.: MA_48_HYA_20060429_CS_022
Reference: USMA1FO, USMA1FP
NOAA Chart No.: USMA1GP, USMA1GO

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

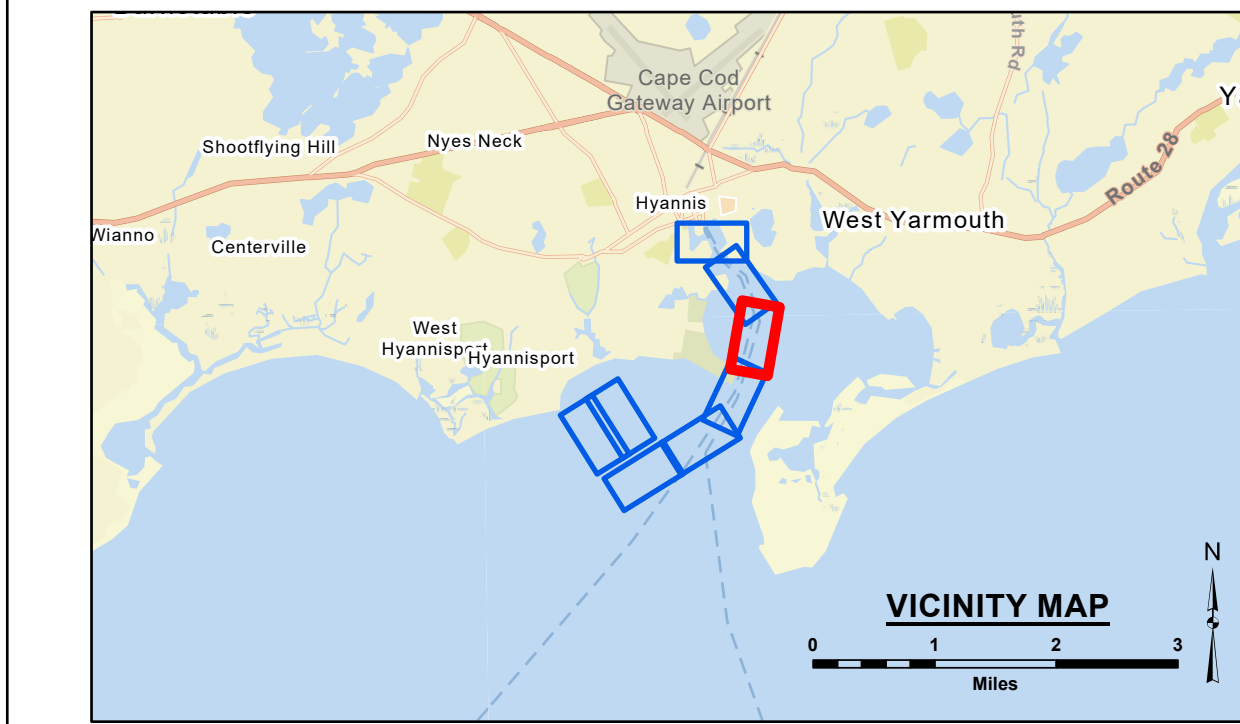
The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during April 2026. The positions of aids to navigation were located during survey operations, are provided for information only and should not be used for navigation. Orthoregistry is from a variety of sources and data may not be perfectly integrated. The map may contain errors and omissions and features. Temporal changes may have occurred since this dataset was collected and some parts may no longer be an accurate representation of the conditions. The information depicted on this map should NOT be used to determine volumes as volumes are determined from more sounding information than shown.

Project Remarks

Survey includes areas not displayed including Craigsville placement site, and two haul routes between placement and federal navigation project. Marine infrastructure surveyed with lidar in 2023, still present.

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 corrections for the project range from 2.21 to 2.25 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).

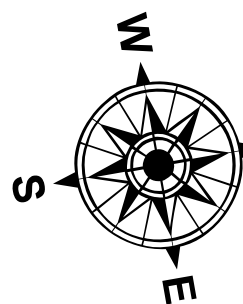


GRAPHIC SCALE

100 0 100 200

1" = 100'  Feet

** Shoalest Sounding per Quarter per Reach
* Present at Time of Survey



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.

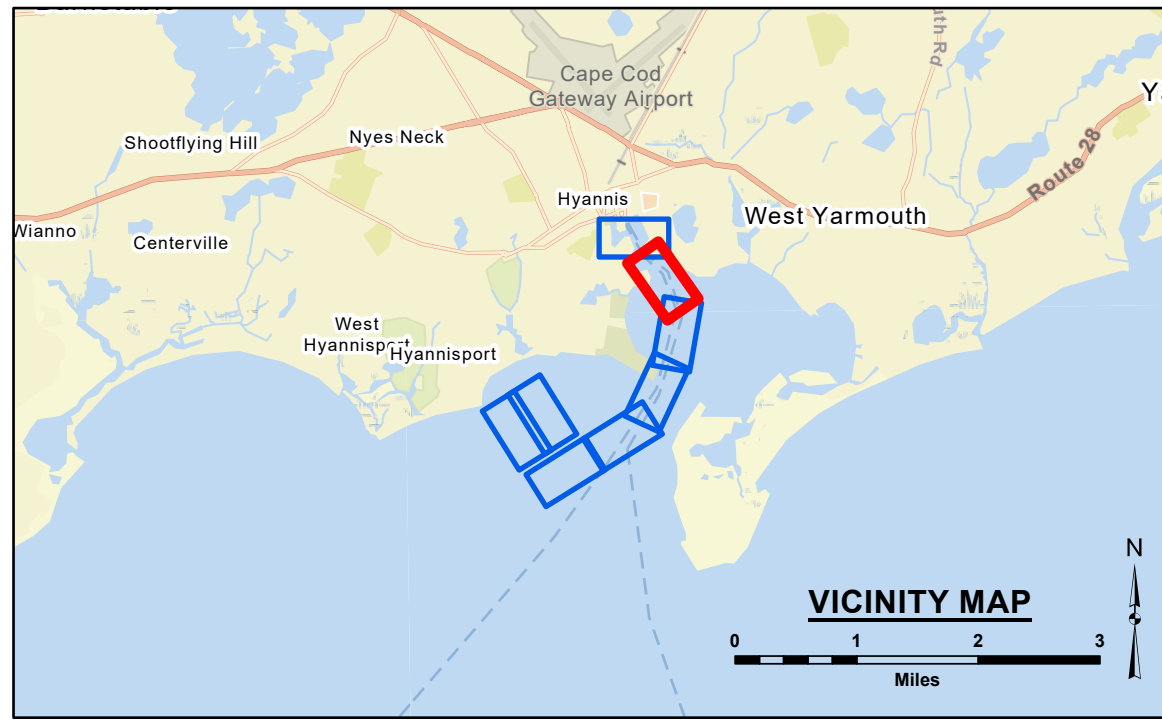
Project Remarks

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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 corrections for the project range from 2.21 to 2.25 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).

**SHEET
IDENTIFICATION**
Hyannis Harbor

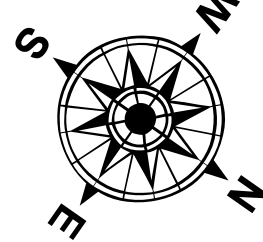


GRAPHIC SCALE

100 0 100 200

1" = 100'  Feet

** Shoalest Sounding per Quarter per Reach
* Present at Time of Survey



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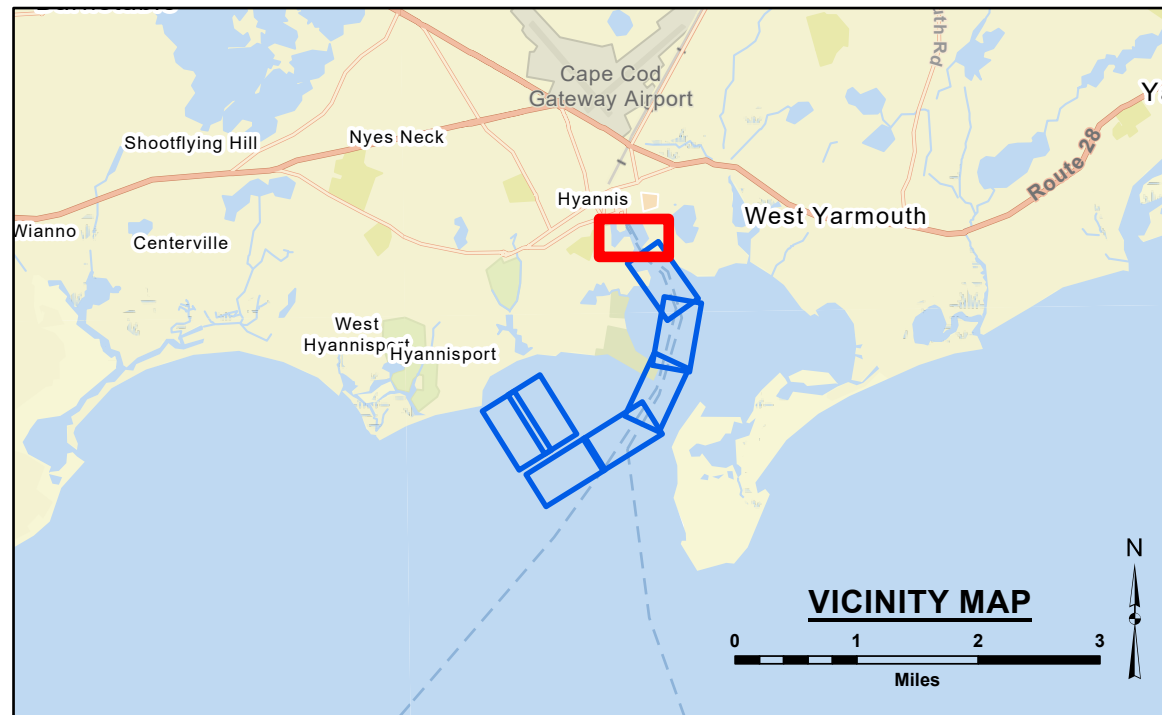
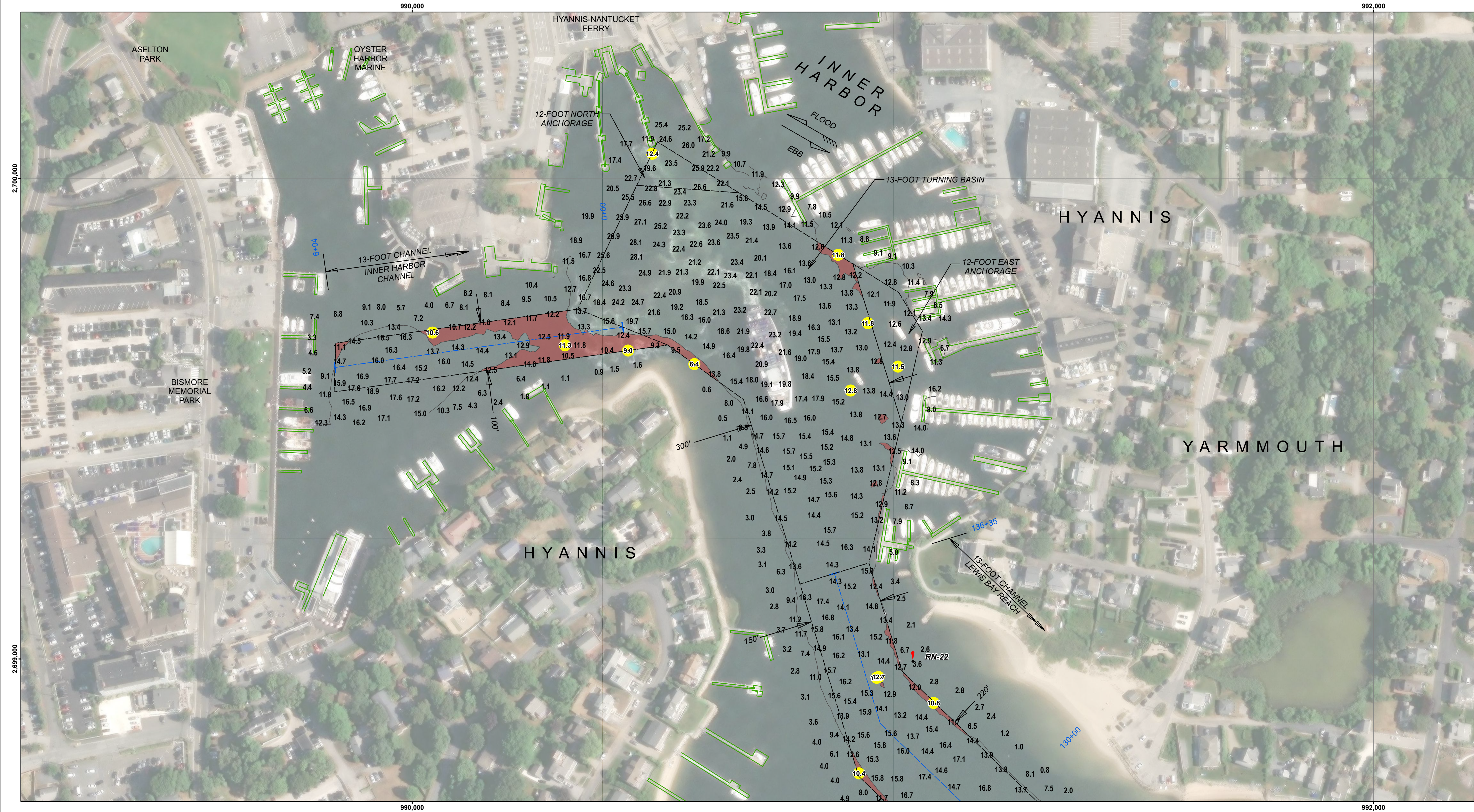
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT	
SUBMITTED BY: Zachary McAvoy	SURVEYED BY: MJO
APPROVED BY: NAE Survey	CHECKED BY: BTM
SIZE: ANSI D	MAP DOCUMENT: MA_48_WTA_CAG2004E1_CS_022 5/8/2026

HYANNIS HARBOR
HYANNIS (BARNSTABLE) AND
YARMOUTH, MASSACHUSETTS
CONDITION SURVEY

13-FOOT CHANNELS AND TURNING BASIN
12 AND 15.5-FOOT ANCHORAGES

File Name: MA_46_HYA_20260429_CS_022

**SHEET
IDENTIFICATION
Hyannis Harbor**



LEGEND

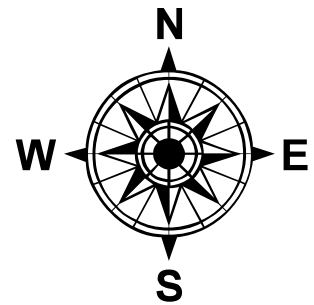
--- Federal Navigation Channel	✕ Fixed Navigation Aids
--- Channel Center Line	! Red Navigation Buoy*
--- Marine Infrastructure*	! Green Navigation Buoy*
..... Cable or Pipeline Area	! Yellow Navigation Buoy*
— Contour Line	■ Shoaling Area
✕ Obstruction Point	● Shoalest Sounding**

*** Shoalest Sounding per Quarter per Reach
* Present at Time of Survey

GRAPHIC SCALE

1" = 100'

0 100 200 Feet



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: SV Kennebec
Sonar System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS Tides
GPS System: INS Integrated Reson (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4986
Survey No.: MA_48_HYA_20260429_CS_022
Reference: USSMA1FO, USSMA1FP, NOAA Chart No. USSMA1GO, USSMA1GP

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Water Level Information
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U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT			
SUBMITTED BY: Zachary McAvoy		SURVEYED BY: MJO	
APPROVED BY: NAE Survey		CHECKED BY: BTM	
SIZE: ANSI D	MAP DOCUMENT: MA_48_HYA_20260429_CS_022		ISSUE DATE: 5/6/2026

**HYANNIS HARBOR
(BARNSTABLE) AND
YARMMOUTH, MASSACHUSETTS
CONDITION SURVEY**

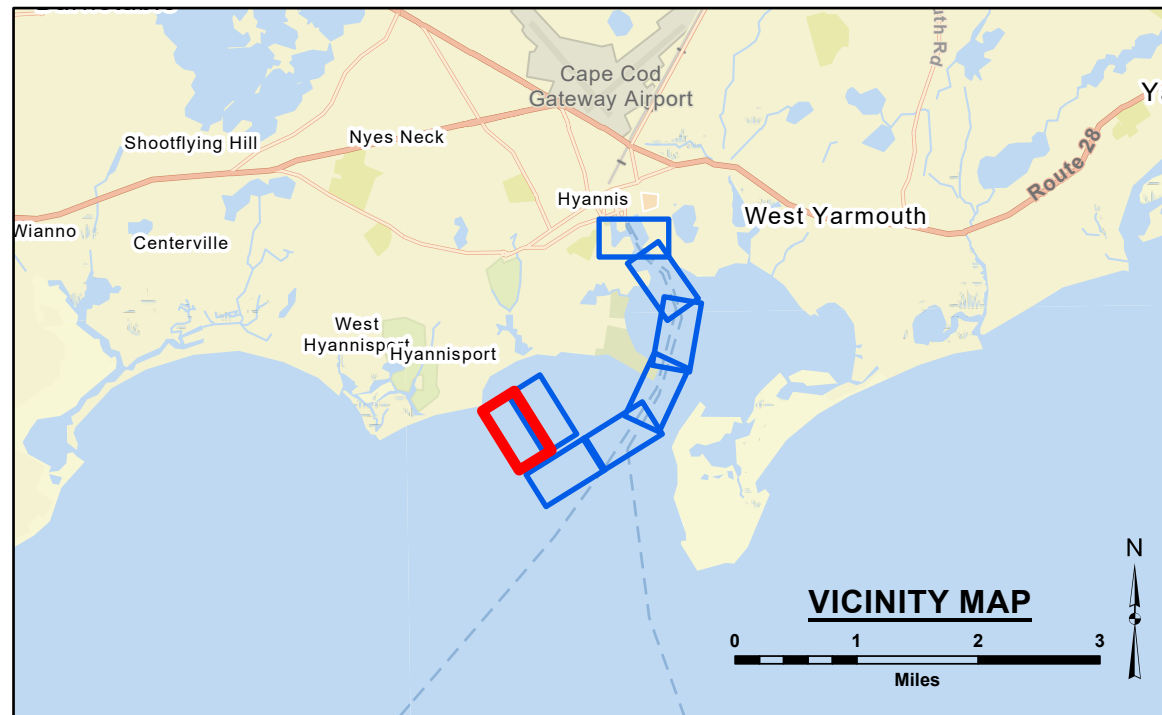
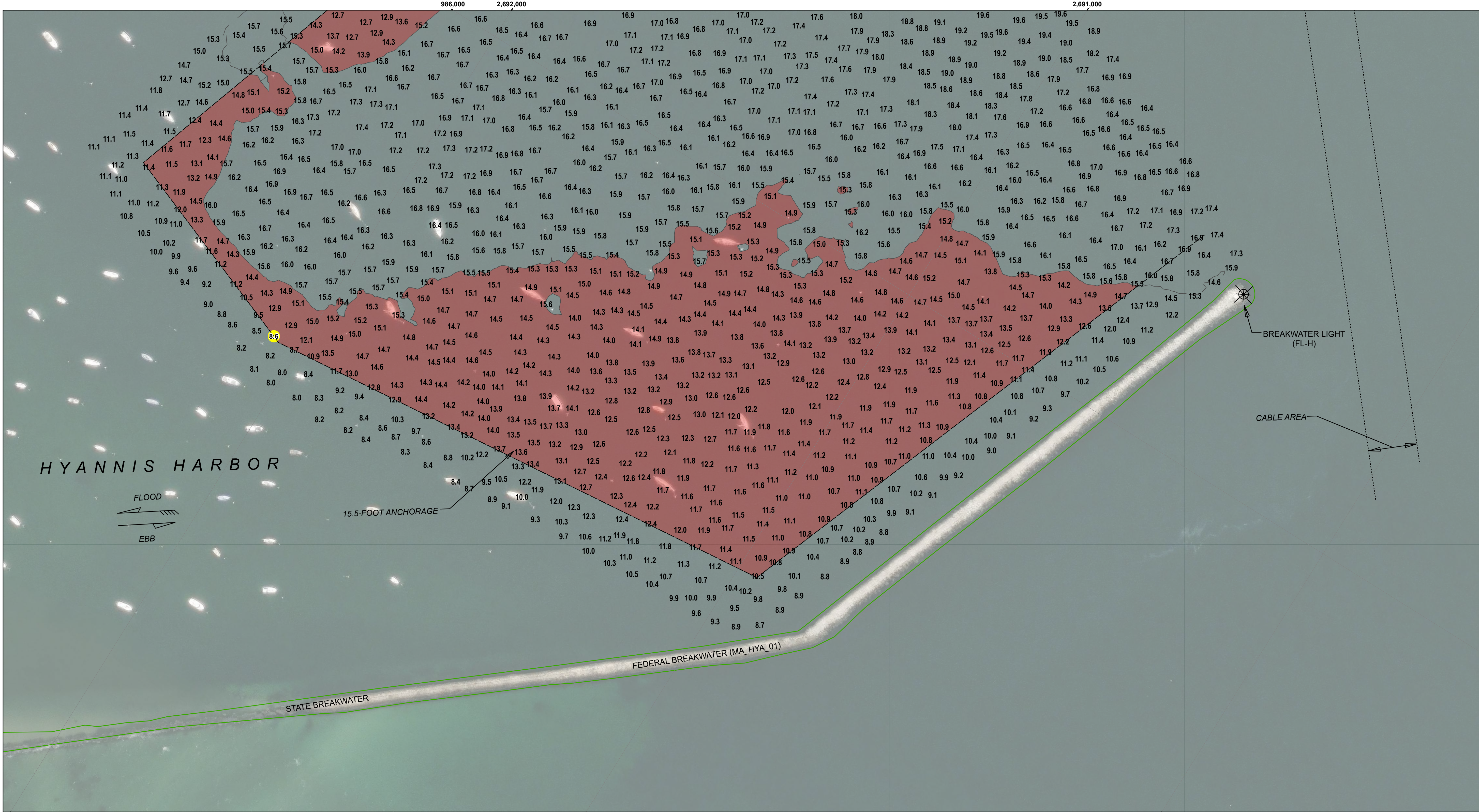
**13-FOOT CHANNELS AND TURNING BASIN
12 AND 15.5-FOOT ANCHORAGES**

File Name: MA_48_HYA_20260429_CS_022

**SHEET
IDENTIFICATION**

Hyannis Harbor

Sheet 6 of 8



LEGEND

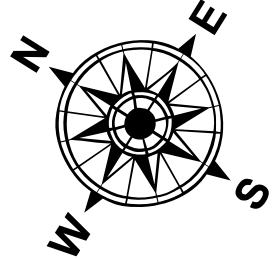
--- Federal Navigation Channel	✕ Fixed Navigation Aids
--- Channel Center Line	! Red Navigation Buoy*
--- Marine Infrastructure*	! Green Navigation Buoy*
..... Cable or Pipeline Area	! Yellow Navigation Buoy*
— Contour Line	■ Shoaling Area
✕ Obstruction Point	● Shoalest Sounding**

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
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Depth Units: U.S. Survey Feet
Vessel Name: SV Kennebec
Sonar System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS Tides
GPS System: INS Integrated Reson (RTK)
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Sounding Sort Distance: 30'
Field Books: R&H 4986
Survey No.: MA_48_HYA_20260429_CS_022
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US Army Corps
of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT		SURVEYED BY: MJO	
SUBMITTED BY: Zachary McAvoy		CHECKED BY: BTM	
APPROVED BY: NAE Survey		ISSUE DATE: 5/6/2026	
SIZE ANSI D	MAP DOCUMENT MA_48_HYA_20260429_CS_022		

HYANNIS HARBOR
HYANNIS (BARNSTABLE) AND
YARMOUTH, MASSACHUSETTS
CONDITION SURVEY
13-FOOT CHANNELS AND TURNING BASIN
12 AND 15.5-FOOT ANCHORAGES
File Name: MA_48_HYA_20260429_CS_022

SHEET
IDENTIFICATION
Hyannis Harbor
Sheet 7 of 8

