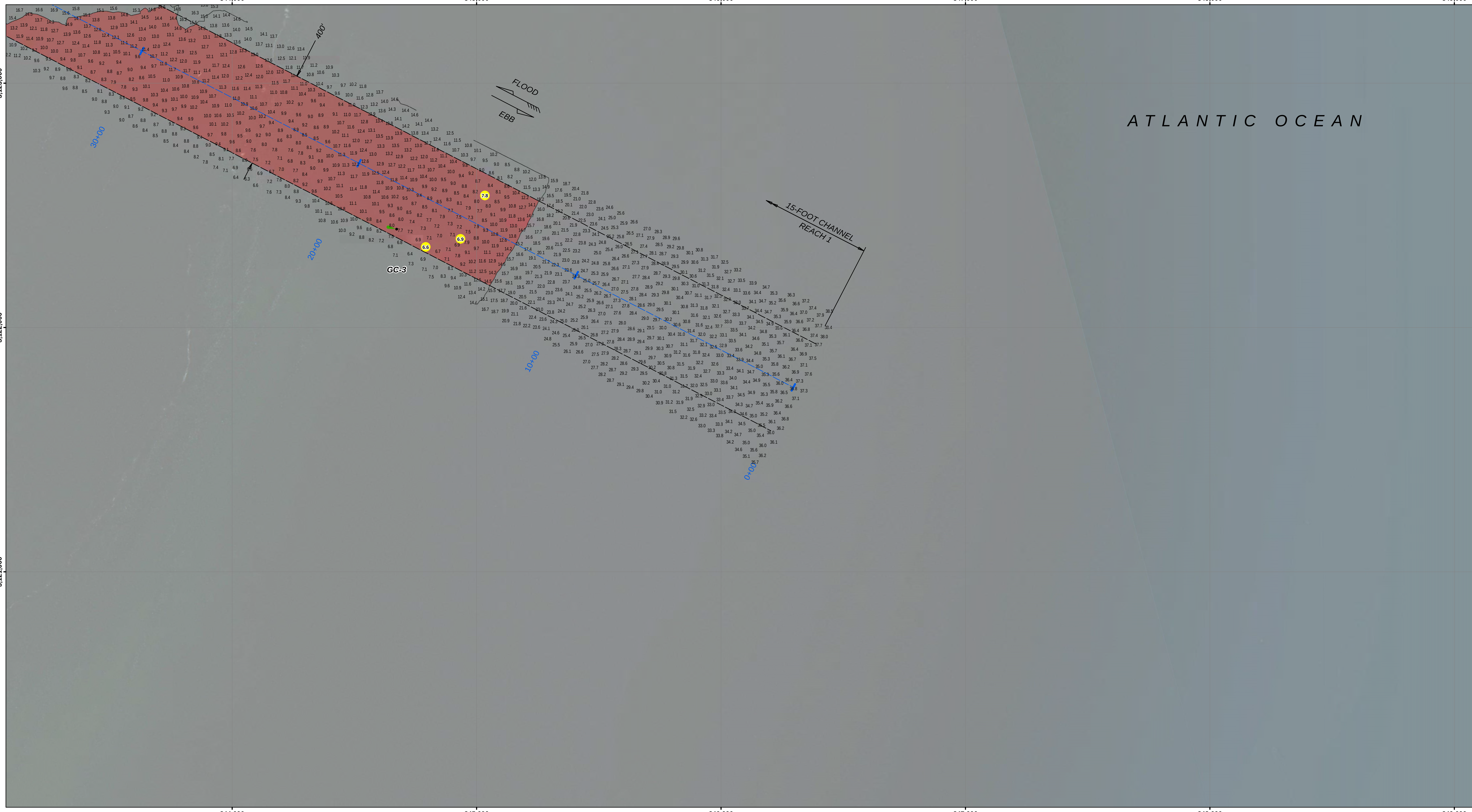
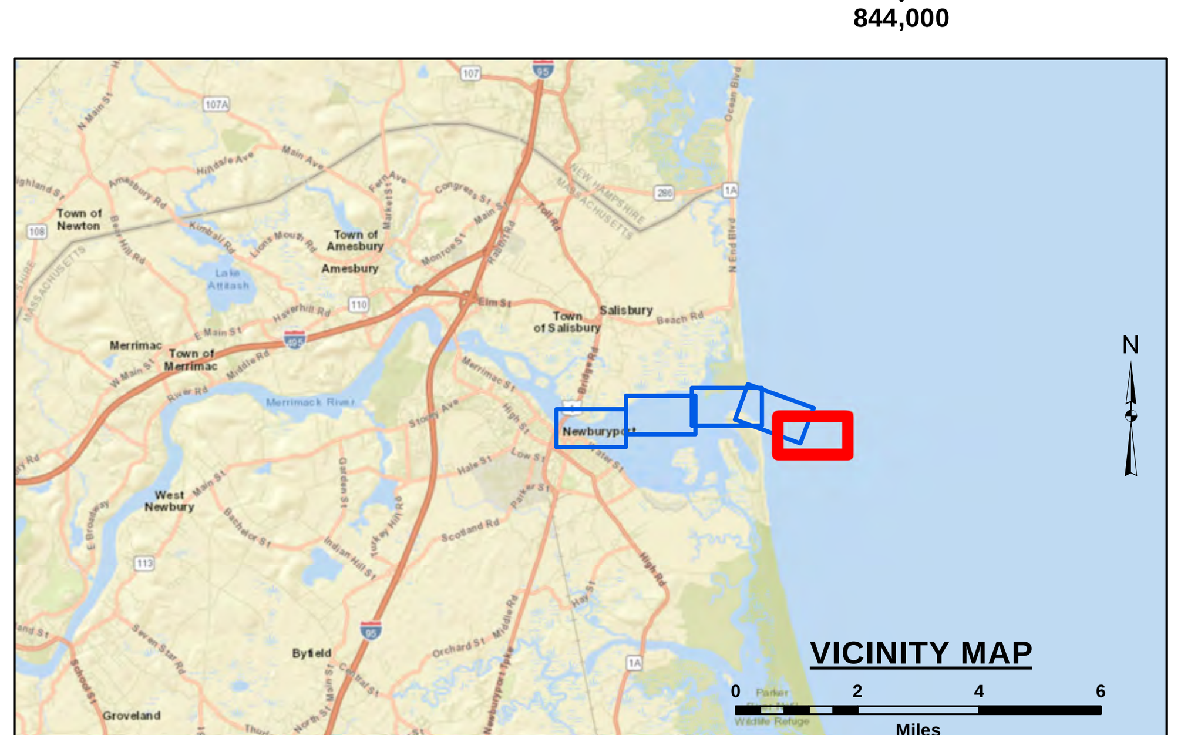
CORPS OF ENGINEERS | U.S. ARMY





LEGEND

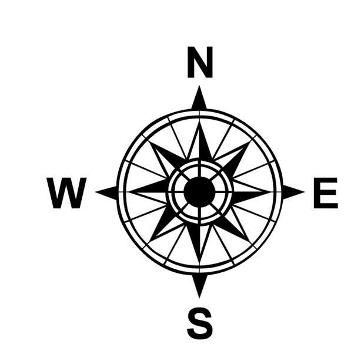
- Federal Navigation Channel
- Cable or Pipe Areas
- Channel Center Line
- Contour Line
- Obstruction Point
- Fixed Navigation Aids
- Red Navigation Buoy
- Green Navigation Buoy
- Shoaling Area
- Shoalest Sounding**

** Shoalest Sounding per Quarter per Reach

GRAPHIC SCALE

200 0 200 400

1" = 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: 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: RAMP 2009
Software Used: Hypack
Sounding Sort Distance: 40'
Field Books: R&H 4549
Survey No.: MA_01_NEB_20220304_CS_026
Reference NOAA Chart No.: 13274

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 February and March 2022. The sounding information depicted on this map represents the results of surveys made on the dates indicated and can only be considered as indicating the conditions existing at that time. The positions of aids to navigation were located during survey operations, are provided for information only and should not be used for navigation. Orthoimagery is from a variety of sources and dates and is intended to portray general characteristics of the shoreline and other 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

Marine infrastructure and adjacent beach surveyed with Lidar. Topographic Lidar data included with sounding data. Specifications Survey

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 corrections for this project range from 4.45 to 5.28 feet. These corrections are referenced from NOAA's V-Datum Model V-Datum Model Version 4.1, ME/NH/MA Region Version 2.3, in the vicinity of Newburyport Harbor, Newburyport, Massachusetts. NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project.

US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: MJO
CHECKED BY: ZSM
ISSUE DATE: 3/24/2022

SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey

MAP DOCUMENT: MA_01_NEB_20220304_CS_026

SIZE: ANSI D

NEWBURYPORT HARBOR
NEWBURYPORT AND SALISBURY
MASSACHUSETTS
CONDITION SURVEY

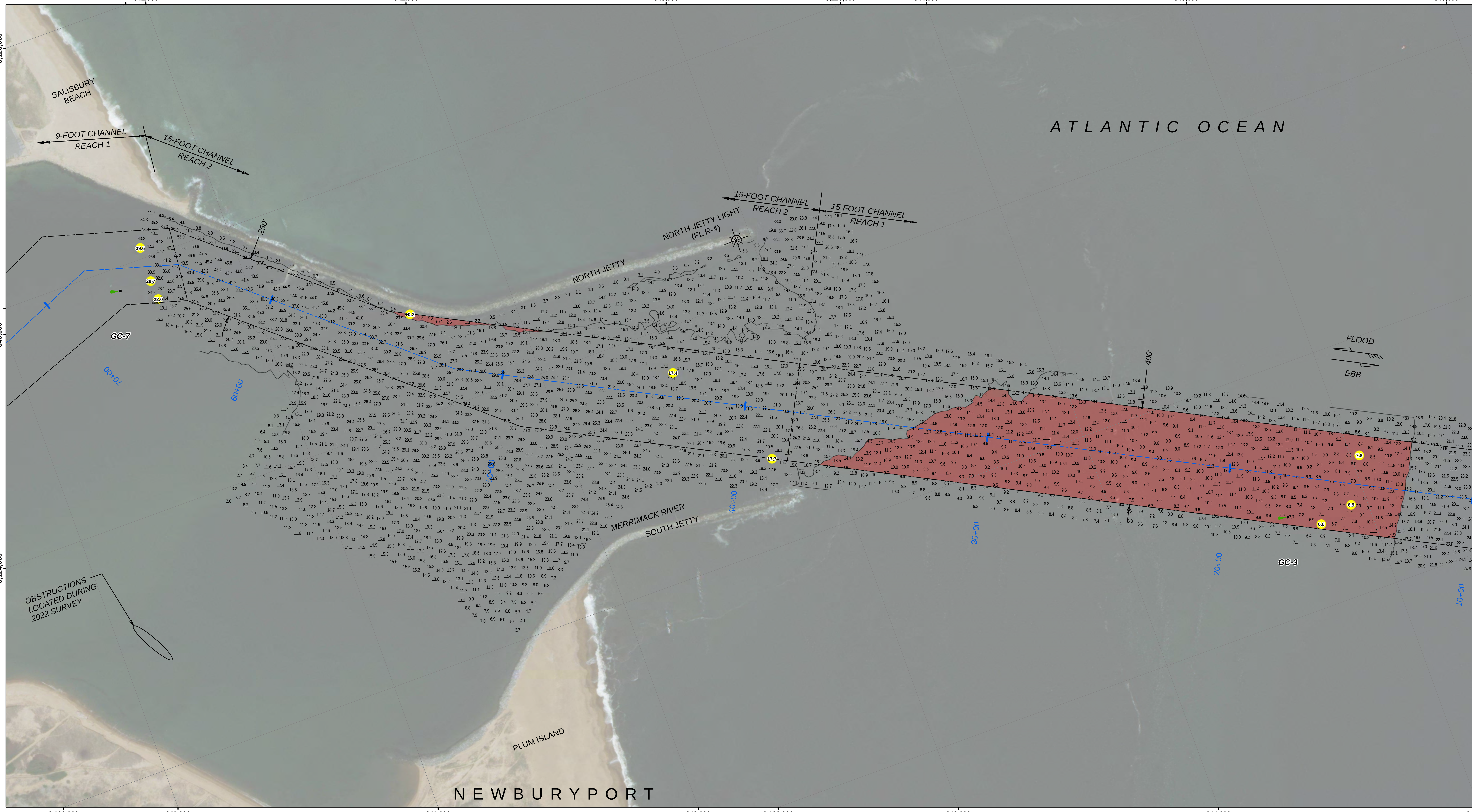
15 AND 9-FOOT CHANNELS

File Name: MA_01_NEB_20220304_CS_026

SHEET IDENTIFICATION
Newburyport Harbor

Sheet 1 of 5

Revison Number: 4.2-20200420



US Army Corps of Engineers
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NEWBURYPORT AND SALISBURY MASSACHUSETTS
CONDITION SURVEY

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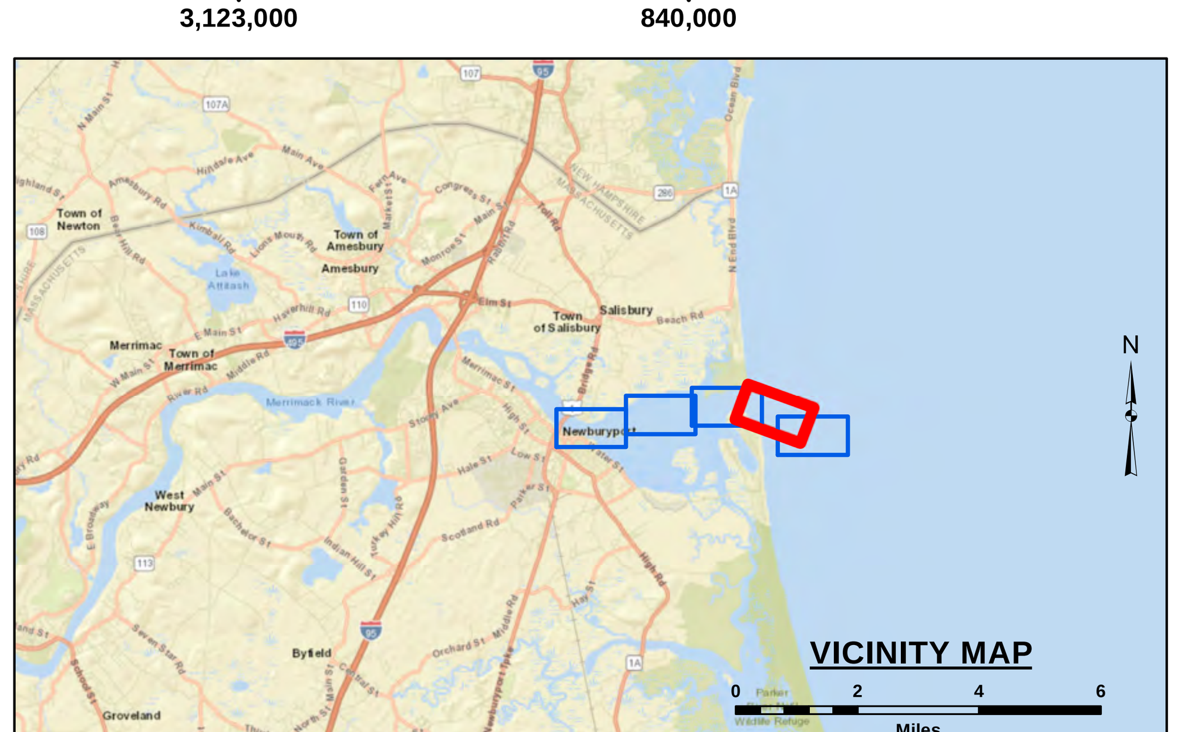
File Name: MA_01_NEB_20220304_CS_026

SHEET IDENTIFICATION
Newburyport Harbor

Sheet 2 of 5



LEGEND

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- Shoalest Sounding**

** Shoalest Sounding per Quarter per Reach

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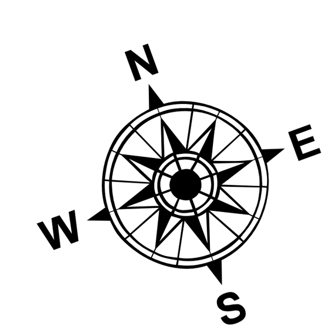

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