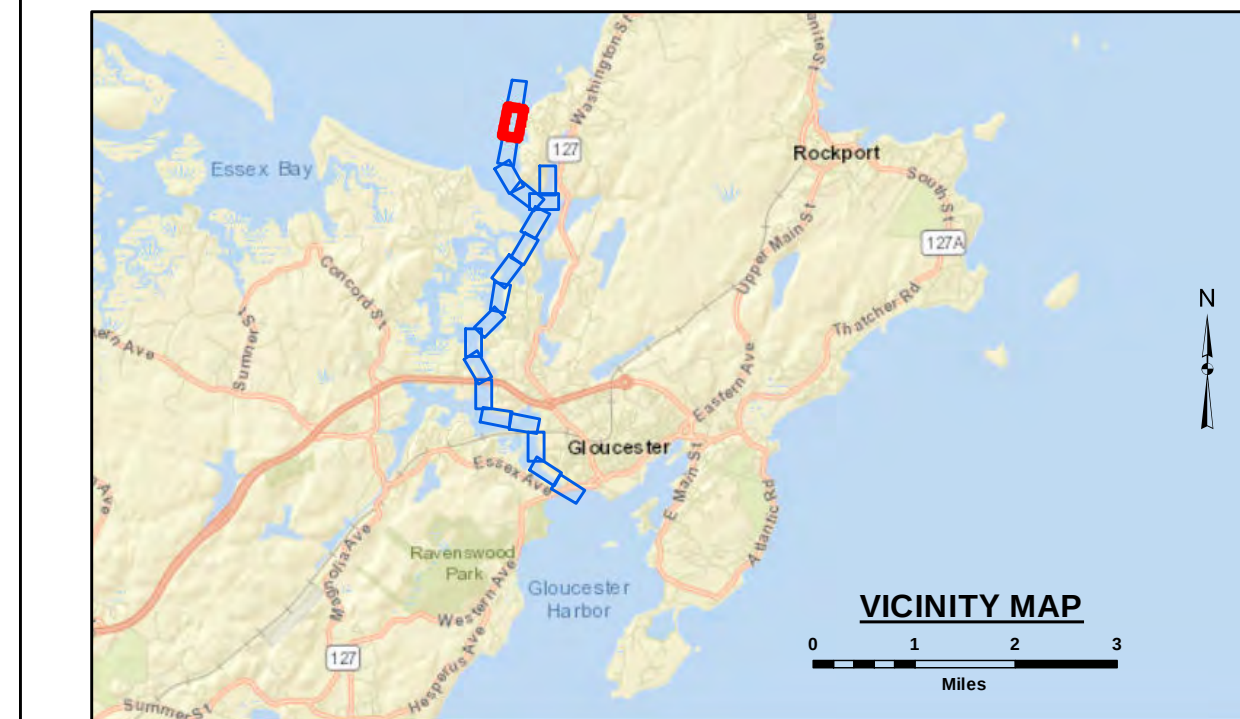
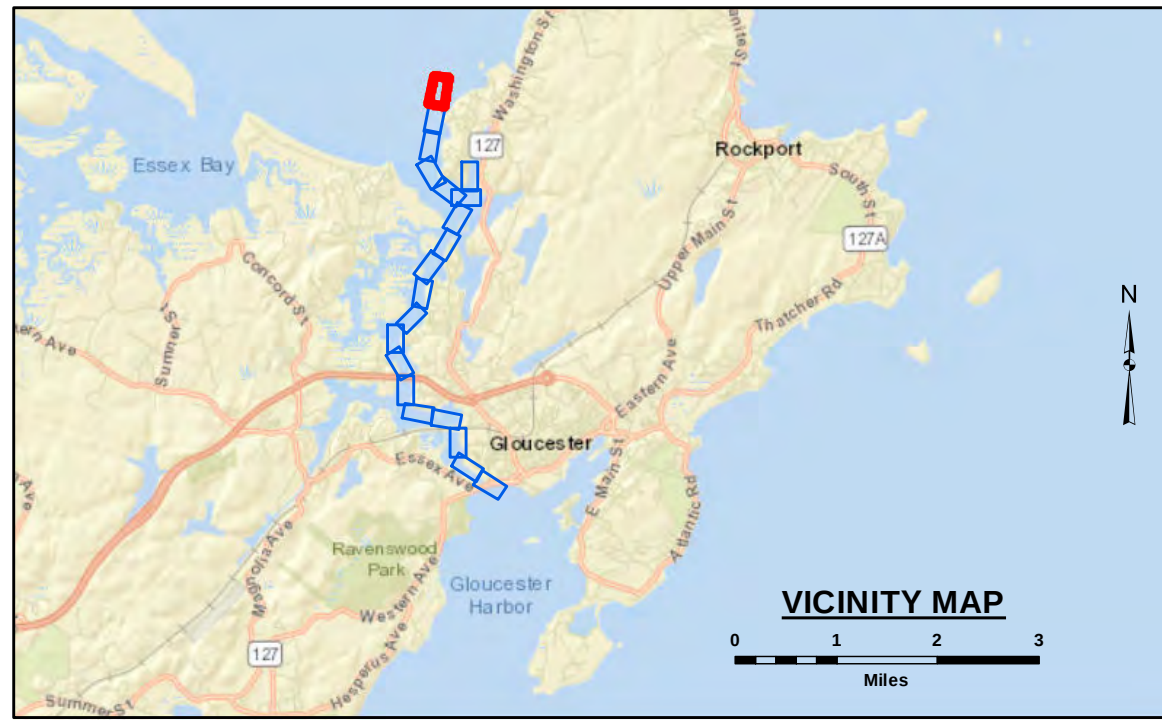
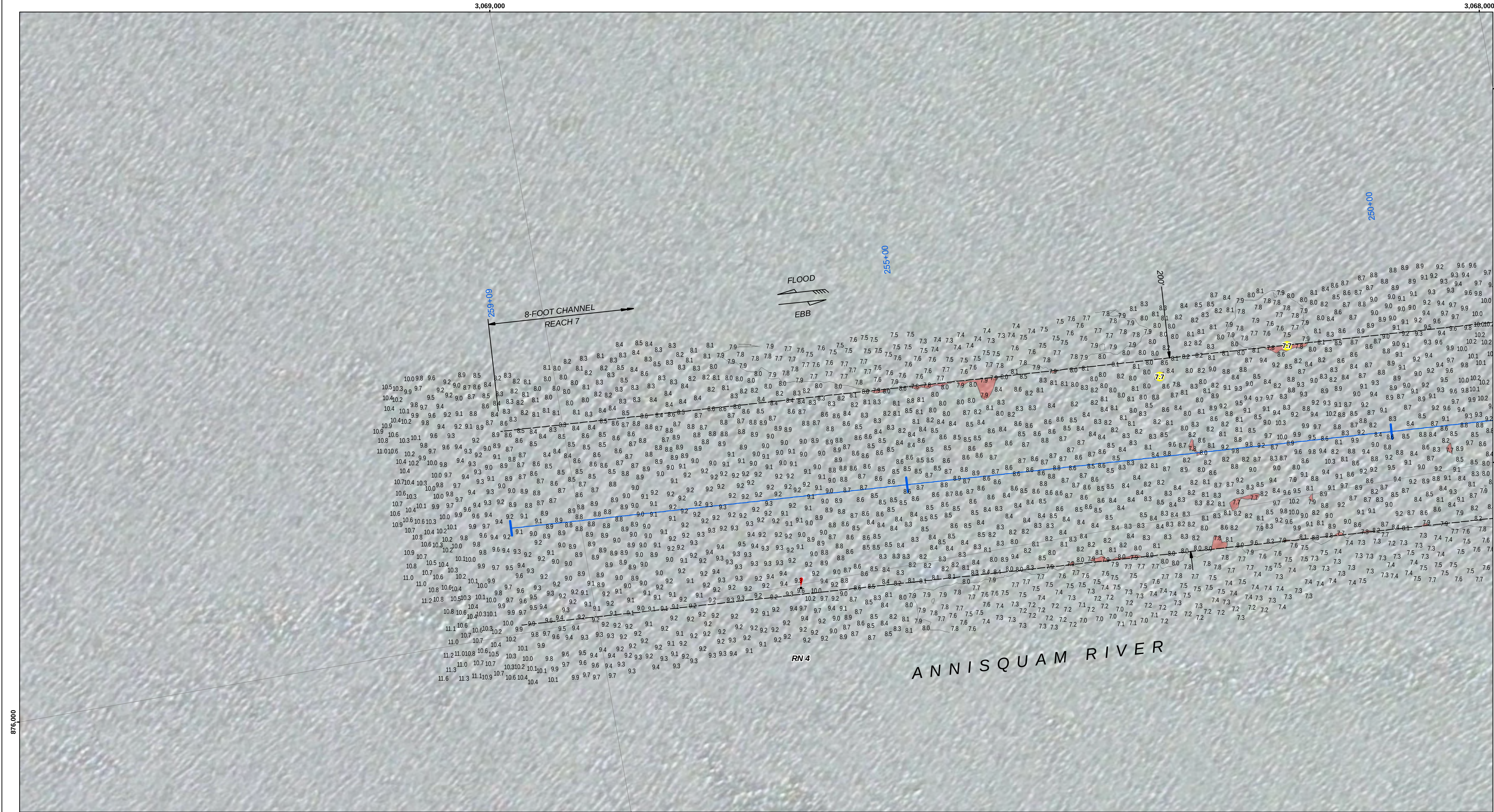


The information depicted on these charts represents the results of surveys made on the dates indicated, and can only be considered as indicating the conditions existing at that time.

Project Remarks
Federal navigation project not surveyed in its entirety. Dredge area coverage only.

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project is 5.21 feet. This correction is referenced from NOAA's V-Datum Model Version 4.0, ME/NH/MA region Version 2.3, in the vicinity of Annisquam River, Gloucester, MA. NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project.



LEGEND

Federal Navigation Channel

Channel Center Line

.....

Cable or Pipeline Area

—

Contour Line

⊗

Obstruction Point

⊗

Fixed Navigation Aids

●

Red Navigation Buoy

●

Green Navigation Buoy

■

Shoaling Area

●

Shoalest Sounding**

GRAPHIC SCALE

1" = 50'

50 0 50 100 Feet

** Shoalest Sounding per Quarter per Reach

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: KEEGAN
Sonar System: Reson T60 (Multibeam Sonar)
Sounding Frequency: 400 kHz
Survey Method: RTK GPS Tides
GPS System: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 10'
Field Books: R&H 4471
Survey No.: MA_08_GLO_20201022_AD_068
Reference NOAA Chart No.: 13279

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 October 2020. 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. Orthomagery 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

Federal navigation project not surveyed in its entirety. Dredge area coverage only.

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project is 5.21 feet. This correction is referenced from NOAA's V-Datum Model Version 4.0. ME/NH/MA region Version 2.3. in the vicinity of Annisquam River, Gloucester, MA. NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project.



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U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT		SUBMITTED BY: Zachary McVay		CHECKED BY: ZSM		ISSUE DATE: 10/27/2020	
ANNISQUAM RIVER GLOUCESTER, MASSACHUSETTS		APPROVED BY: NAE Survey		MAP DOCUMENT MA_08_GLO_20201022_AD_068		SIZE ANSI D	

**ANNISQUAM RIVER
GLOUCESTER, MASSACHUSETTS**

AFTER DREDGE SURVEY

8-FOOT CHANNEL AND ANCHORAGE

File Name: MA_08_GLO_20201022_AD_068

**SHEET
IDENTIFICATION**

Annisquam River

Sheet 20 of 20