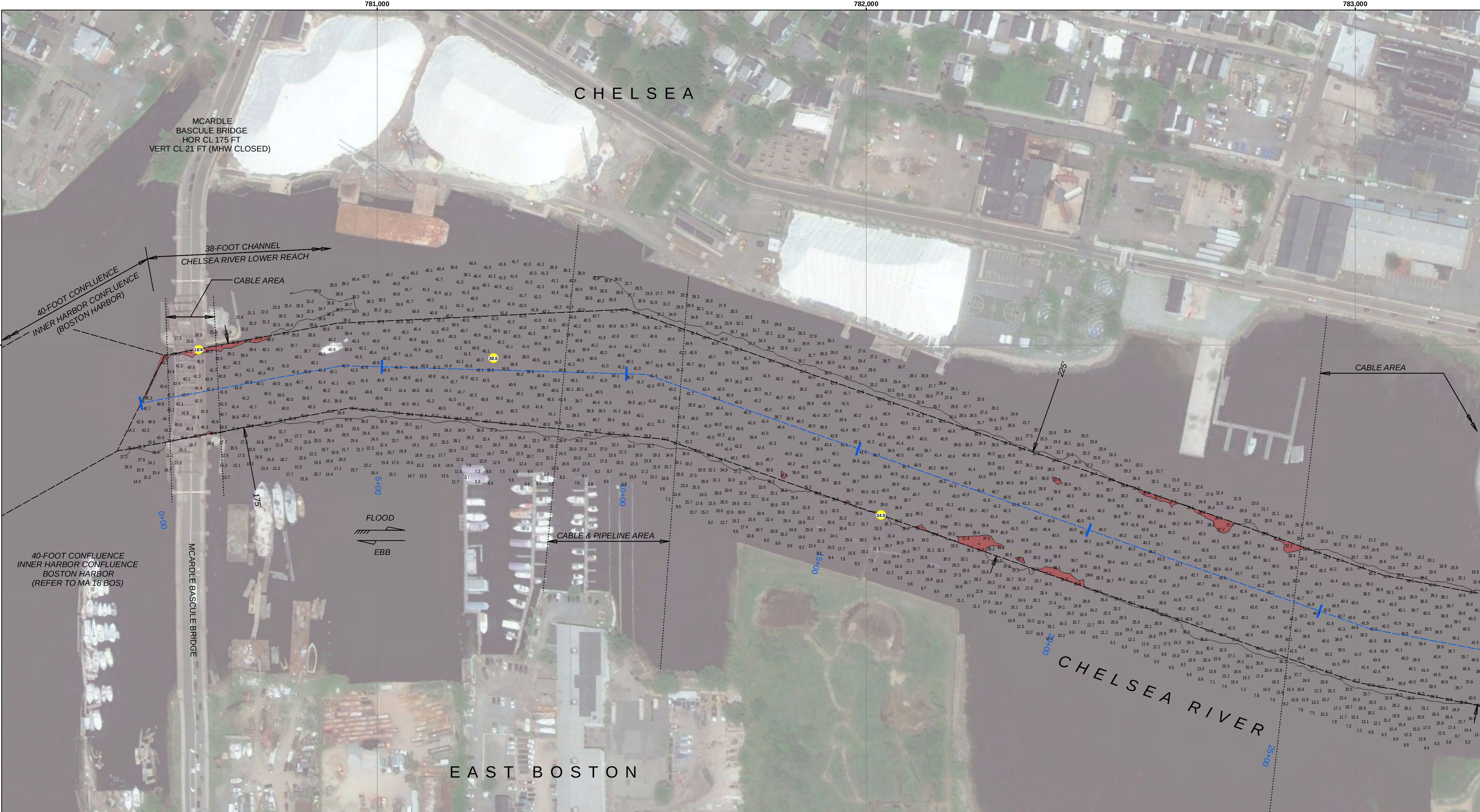




LEGEND

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

100

0

100

200

1" = 100' 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: KEEGAN
Sonar System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 400 kHz
Survey Method: RTK GPS TIDES
GPS System: Trimble SPS855 (RTK)
RTK Base Station: Castle (2014)
Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4564
Survey No.: MA_19_BOS_20210414_CS_017
Reference NOAA Chart No.: 13272

General Notes
The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during April 2021. 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. Orthomimagery 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
None

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.

Water Level Information
Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project is 5.51 feet. This correction was established in the vicinity of NOAA bench marks at Boston, Boston Harbor, Massachusetts (Station ID 8443970, 04/21/2003). NAVD88 is above MLLW, therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project

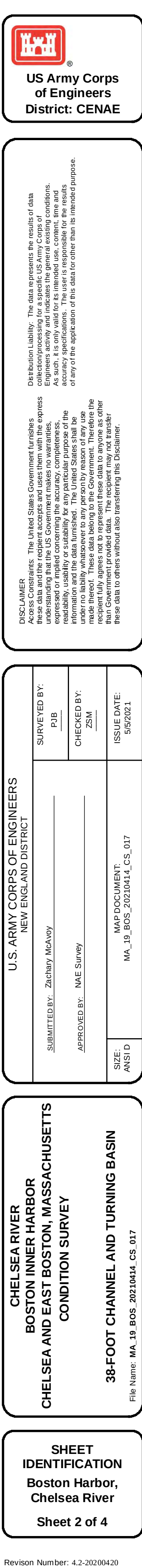


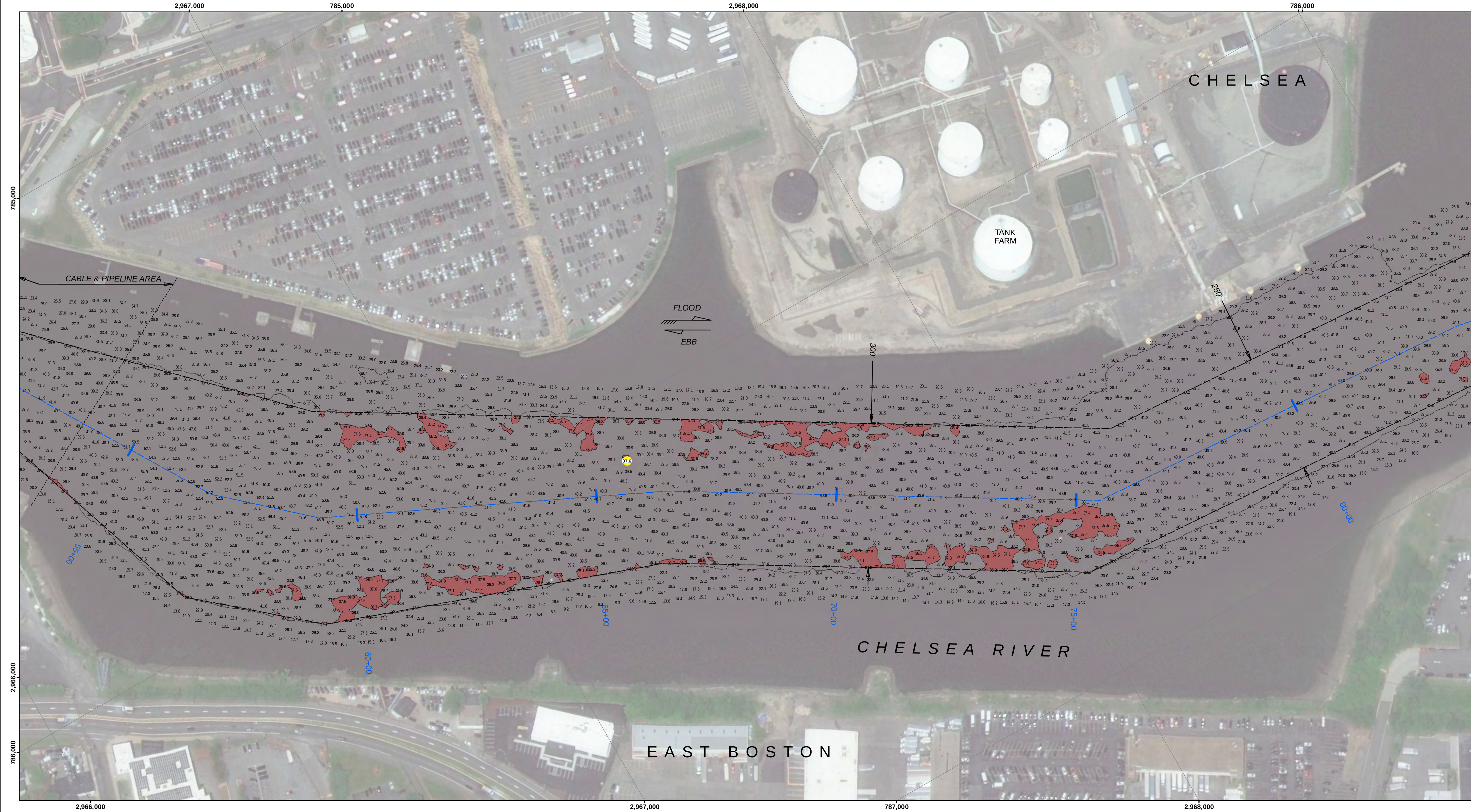
DISCLAIMER
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U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT	SURVEYED BY: PJB	CHECKED BY: ZSM	ISSUE DATE: 9/5/2021
	SUBMITTED BY: Zachary McNay	APPROVED BY: NAE Survey	MAP DOCUMENT: MA_19_BOS_20210414_CS_017
SIZE A1S1D			

**CHelsea RIVER
BOSTON INNER HARBOR
CHelsea AND EAST BOSTON, MASSACHUSETTS
CONDITION SURVEY**

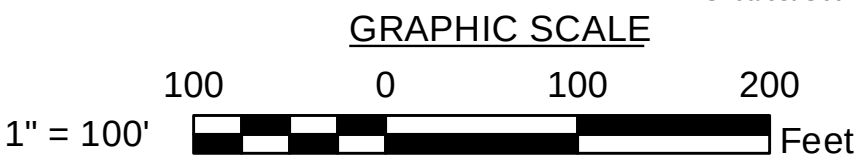
**SHEET
IDENTIFICATION**
Boston Harbor,
Chelsea River
Sheet 1 of 4



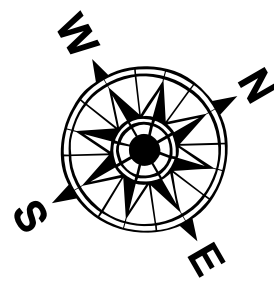


- LEGEND**

 - 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



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 T50 (Multibeam Sonar)
Sounding Frequency: 400 kHz
Survey Method: RTK GPS TIDES
GPS System: Trimble SPS 855 (RTK)
RTK Base Station: Castle (2014)
Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4564
Survey No.: MA_19_BOS_20210414_CS_017
Reference NOAA Chart No.: 13272

General Notes
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Project Remarks
None

Water Level Information
Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project is 5.51 feet. This correction was established in the vicinity of NOAA bench marks at Boston, Boston Harbor, Massachusetts (Station ID 8443970, 04/21/2003). 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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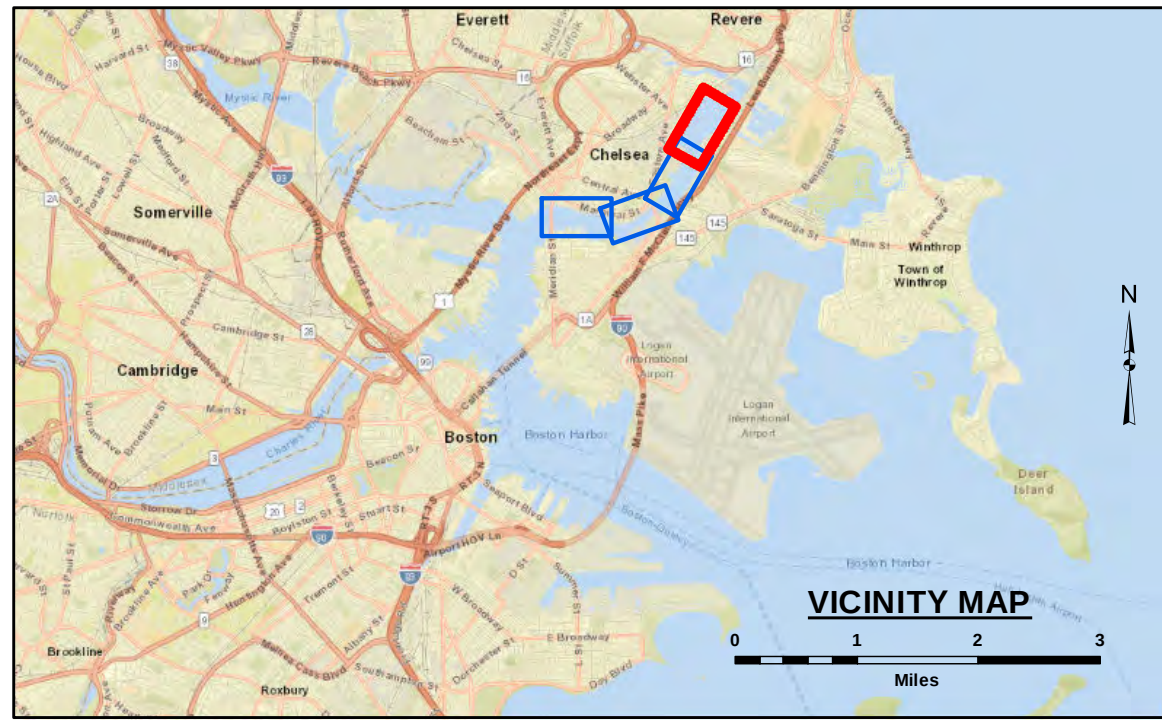
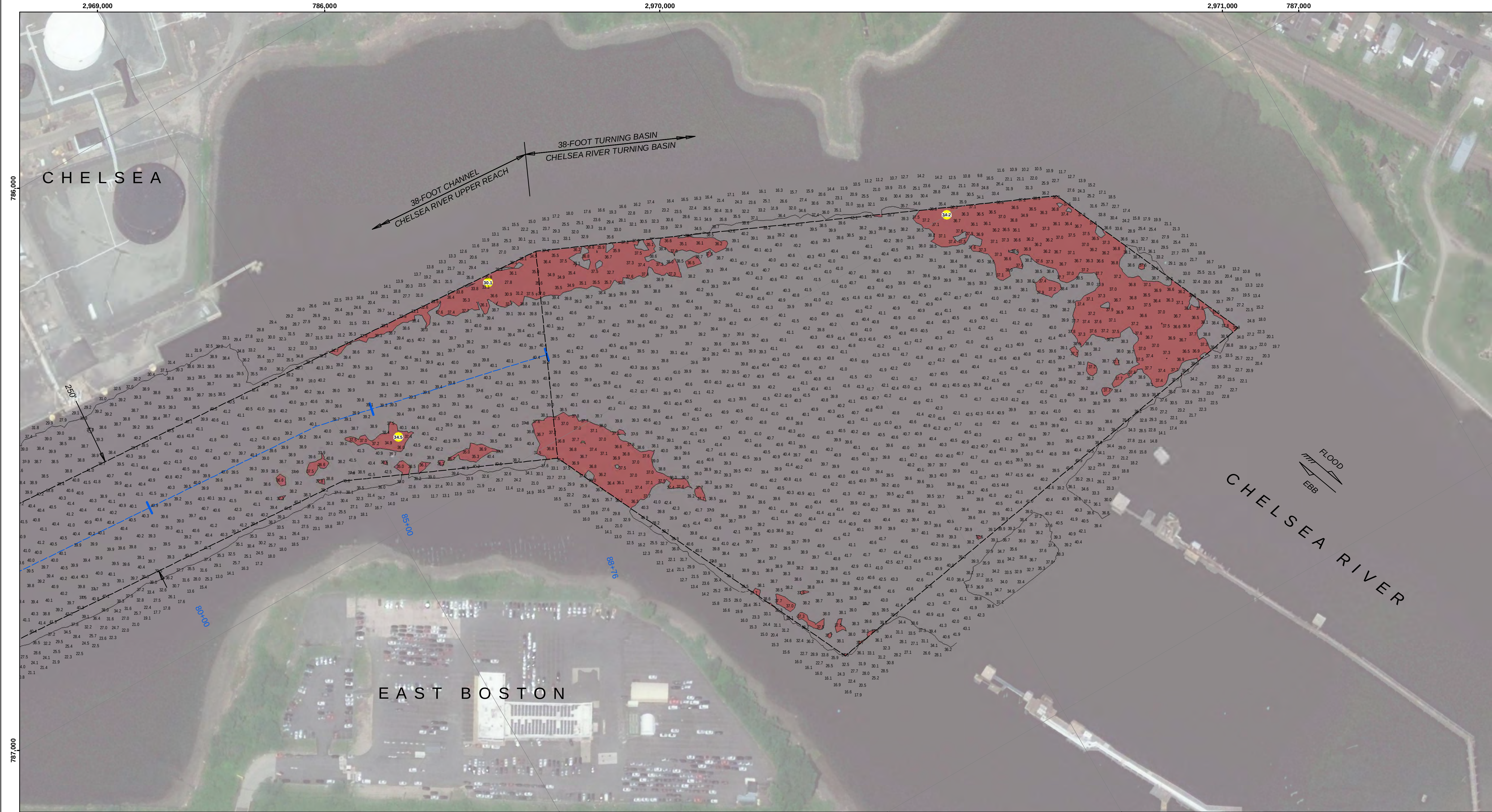
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT	SURVEYED BY: PJB	CHECKED BY: ZSM	ISSUE DATE: 05/2021
	SUBMITTED BY: Zachary McNay	APPROVED BY: NAE Survey	MAP DOCUMENT: MA_19_BOS_20210414_CS_017
SIZE A1S1D			

**CHELSEA RIVER
BOSTON INNER HARBOR
CHELSEA AND EAST BOSTON, MASSACHUSETTS
CONDITION SURVEY**

38-FOOT CHANNEL AND TURNING BASIN

File Name: MA_19_BOS_20210414_CS_017

**SHEET
IDENTIFICATION**
**Boston Harbor,
Chelsea River**
Sheet 3 of 4



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

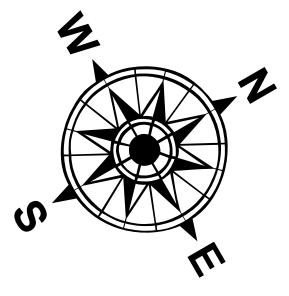
● Shoalest Sounding**

GRAPHIC SCALE

1" = 100'

0 100 200 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 T50 (Multibeam Sonar)
Sounding Frequency: 400 kHz
Survey Method: RTK GPS TIDES
GPS System: Trimble SPS 855 (RTK)
RTK Base Station: Castle (2014)
Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4564
Survey No.: MA_19_BOS_20210414_CS_017
Reference NOAA Chart No.: 13272

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General Notes
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Project Remarks
None

Water Level Information
Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project is 5.51 feet. This correction was established in the vicinity of NOAA bench marks at Boston, Boston Harbor, Massachusetts (Station ID 8443970, 04/21/2003). 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: PJB	CHECKED BY: ZSM	ISSUE DATE: 05/2021
	SUBMITTED BY: Zachary McNay	APPROVED BY: NAE Survey	MAP DOCUMENT: MA_19_BOS_20210414_CS_017
CHelsea RIVER BOSTON INNER HARBOR CHelsea AND EAST BOSTON, MASSACHUSETTS CONDITION SURVEY		SIZE: A1S1D	File Name: MA_19_BOS_20210414_CS_017

SHEET IDENTIFICATION

Boston Harbor, Chelsea River

Sheet 4 of 4