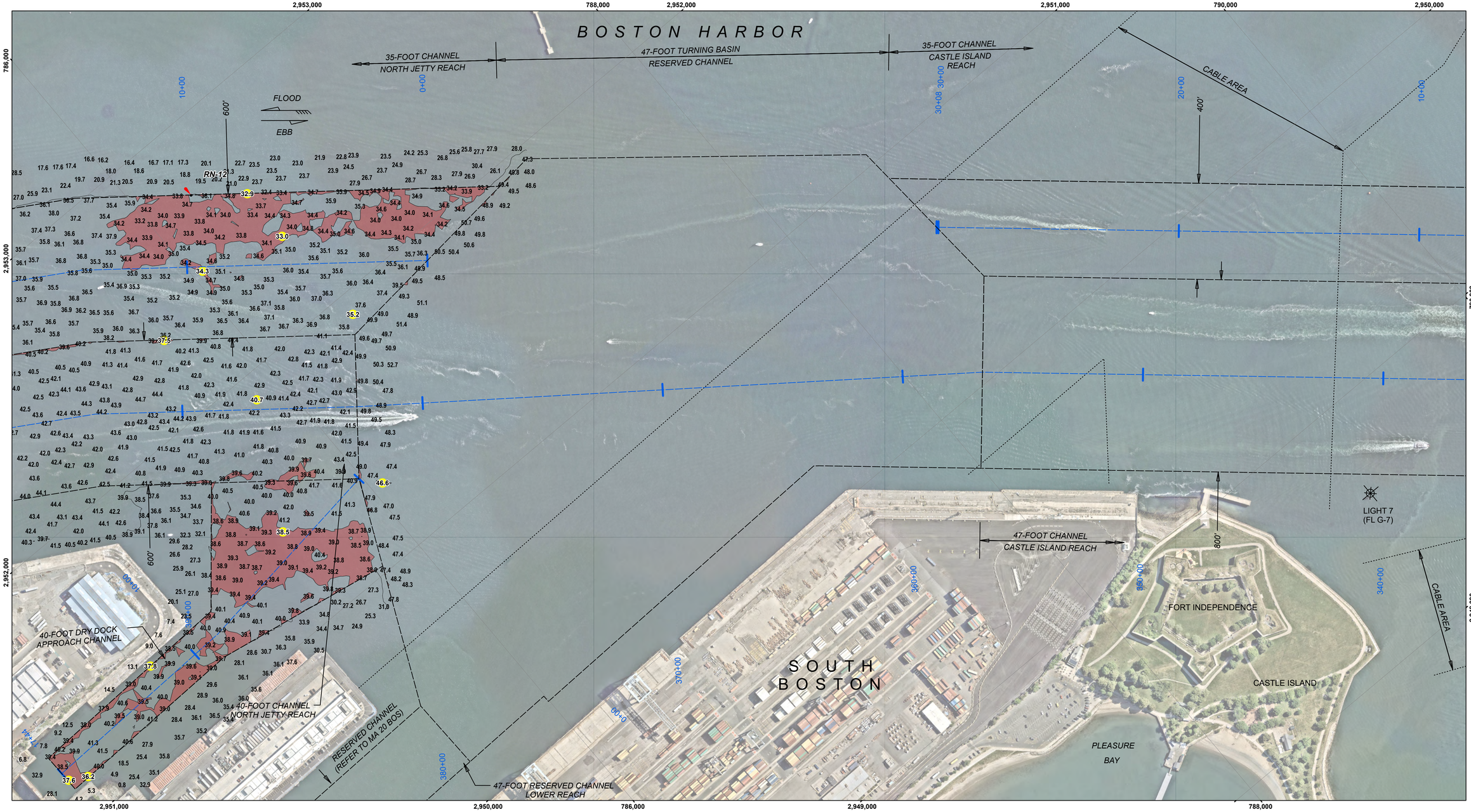
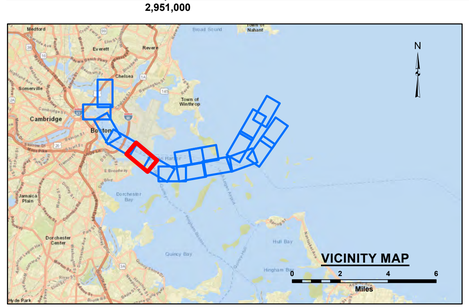




LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable or Pipeline Area
- Contour Line
- Marine Infrastructure*
- Obstruction Point
- Fixed Navigation Aids
- Red Navigation Buoy
- Green Navigation Buoy
- Yellow 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: INS Integrated Reson
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 50'
Field Books: R&H 4985
Survey No.: MA18_BOS_20250723_CS_044
Reference NOAA Chart No.: US5BOSCC, US5BOSCD, US5BOSDC

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Project Remarks
Federal Navigation Project not surveyed in its entirety.

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

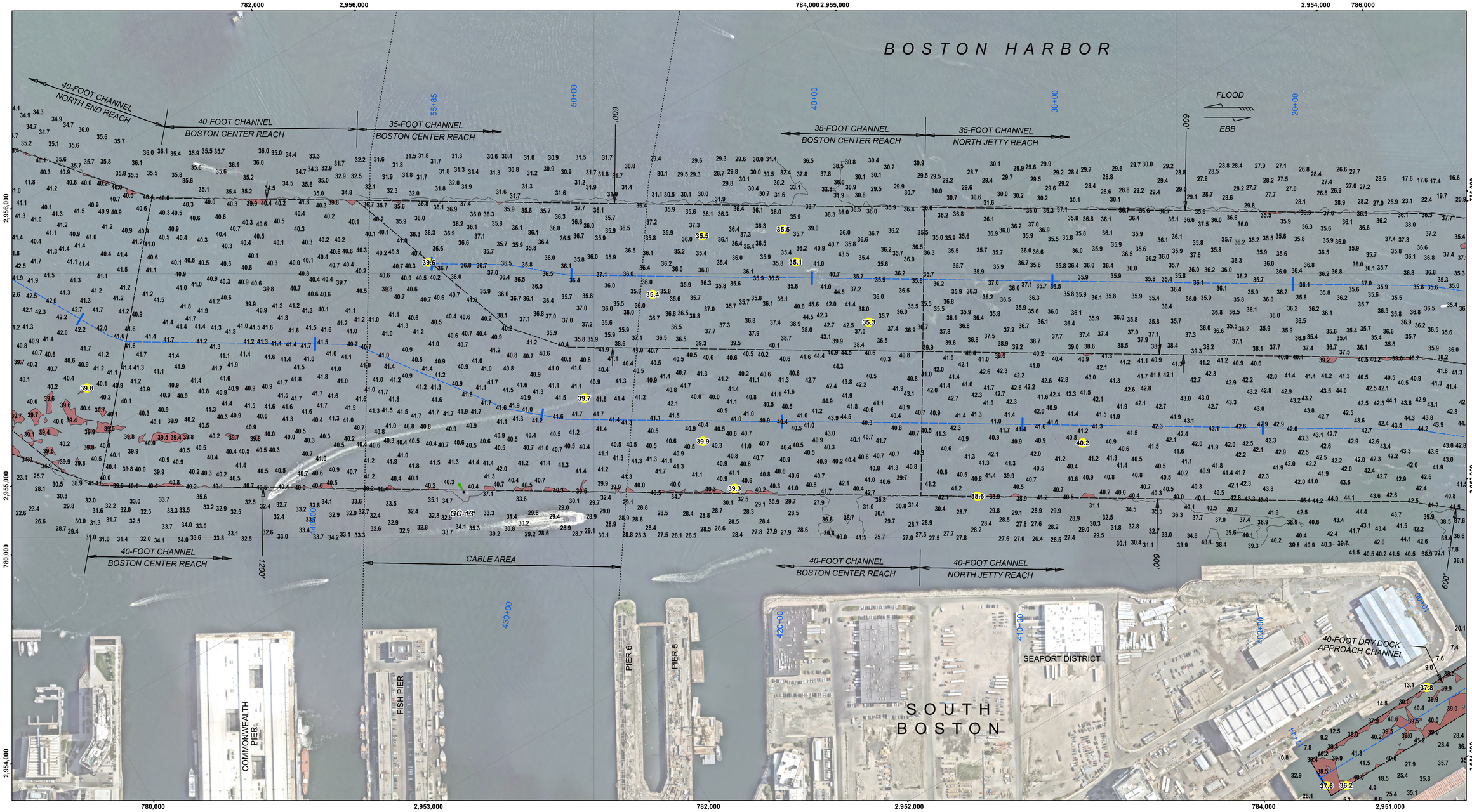
SURVEYED BY: MJD
CHECKED BY: ZSM
ISSUE DATE: 8/19/2025
SUBMITTED BY: Barrett Morse
APPROVED BY: NAE Survey
MAP DOCUMENT: MA_18_BOS_20250723_CS_044
SIZE: ANSI D

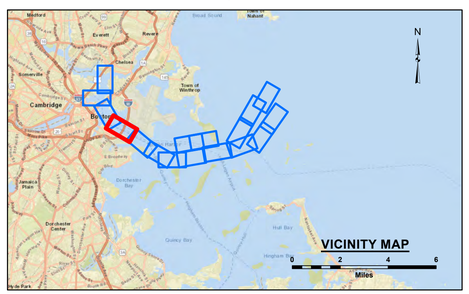
BOSTON HARBOR
BOSTON, MASSACHUSETTS
CONDITION SURVEY
30, 35, 40, 47 AND 51-FOOT CHANNELS
35 AND 47-FOOT ANCHORAGES
40 AND 51-FOOT CONFLUENCES
File Name: **MA_18_BOS_20250723_CS_044**

SHEET IDENTIFICATION
Boston Harbor

Sheet 13 of 17

Revision Number: 5.24.09.03-5.24.09.03





LEGEND

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

** Shoalest Sounding per Quarter per Reach

GRAPHIC SCALE

200 0 200 400

1" = 200' Feet

N E S W

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: INS Integrated Reson
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 50'
Field Books: R&H 4985
Survey No.: MA18_BOS_20250723_CS_044
Reference NOAA Chart No.: US5BOSCC, US5BOSCD, US5BOSDC

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Project Remarks

Federal Navigation Project not surveyed in its entirety.

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
APPROVED BY: NAE Survey
SURVEYED BY: MJD
CHECKED BY: ZSM
ISSUE DATE: 8/19/2025
SIZE: ANSI D
MAP DOCUMENT: MA_18_BOS_20250723_CS_044

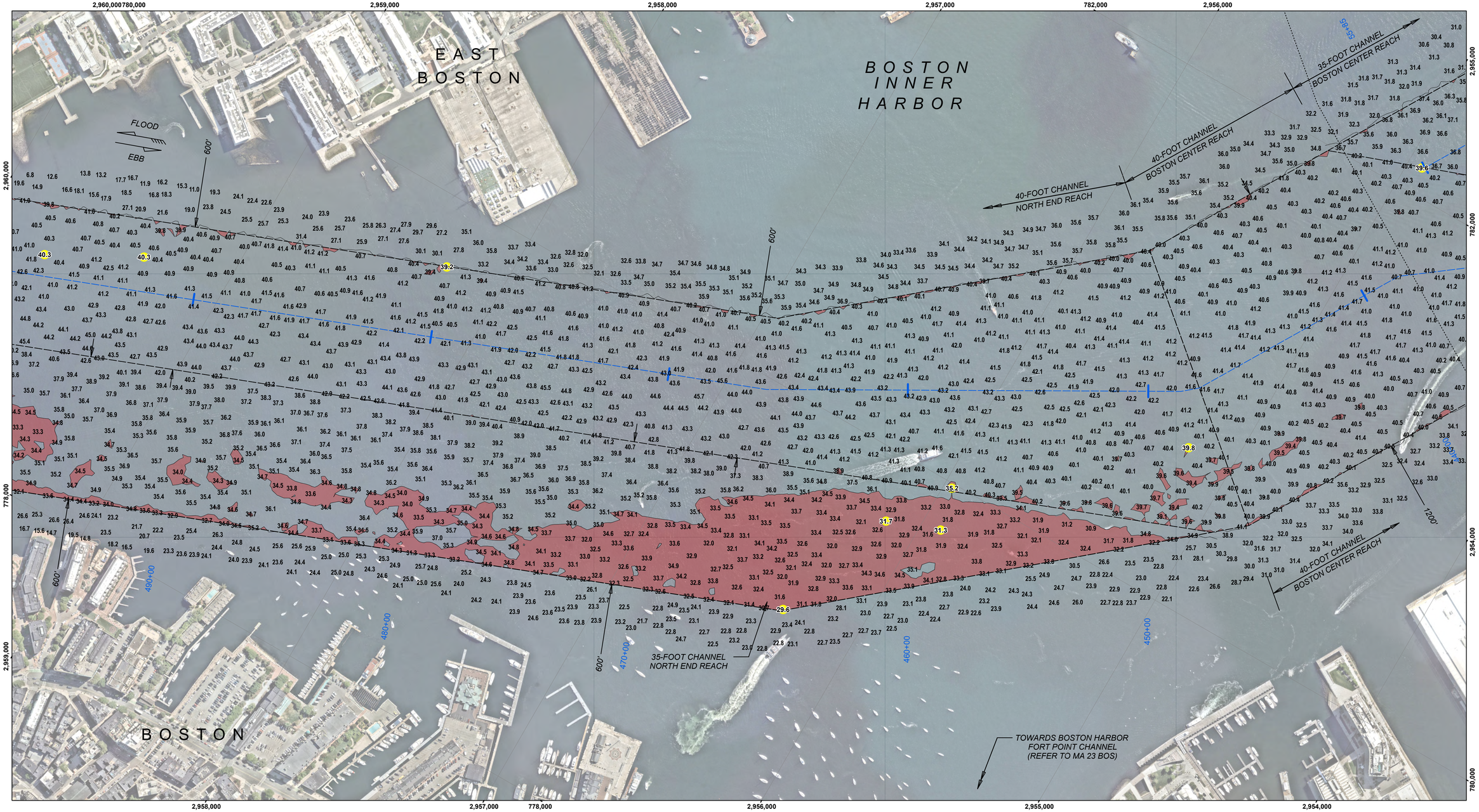
BOSTON HARBOR
BOSTON, MASSACHUSETTS
CONDITION SURVEY
30, 35, 40, 47 AND 51-FOOT CHANNELS
35 AND 47-FOOT ANCHORAGES
40 AND 51-FOOT CONFLUENCES

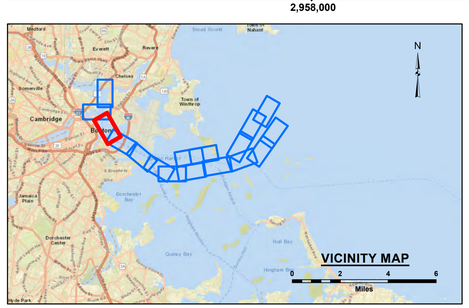
File Name: MA_18_BOS_20250723_CS_044

SHEET IDENTIFICATION
Boston Harbor

Sheet 14 of 17

Revision Number: 5.24.09.03-5.24.09.03





LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable or Pipeline Area
- Contour Line
- Marine Infrastructure*
- Obstruction Point
- Fixed Navigation Aids
- Red Navigation Buoy
- Green Navigation Buoy
- Yellow 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: INS Integrated Reson
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 50'
Field Books: R&H 4985
Survey No.: MA18_BOS_20250723_CS_044
Reference NOAA Chart No.: US5BOSCC, US5BOSCD, US5BOSDC

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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

SURVEYED BY: MJD
CHECKED BY: ZSM
ISSUE DATE: 8/19/2025

SUBMITTED BY: Barrett Morse
APPROVED BY: NAE Survey

MAP DOCUMENT: MA_18_BOS_20250723_CS_044

SIZE: ANSI D

BOSTON HARBOR
BOSTON, MASSACHUSETTS
CONDITION SURVEY

30, 35, 40, 47 AND 51-FOOT CHANNELS
35 AND 47-FOOT ANCHORAGES
40 AND 51-FOOT CONFLUENCES

File Name: MA_18_BOS_20250723_CS_044

SHEET IDENTIFICATION
Boston Harbor

Sheet 15 of 17

Revision Number: 5.24.09.03-5.24.09.03

776,000 778,000 780,000

2,962,000 2,961,000 2,960,000 2,959,000

CHARLESTOWN

EAST BOSTON

BOSTON

CHARLES RIVER

CHARLESTOWN NAVY YARD

USS CONSTITUTION

CONSTITUTION WHARF

CHARLESTOWN BRIDGE

FIXED BRIDGE
HOR CL 50 FT
VERT CL 23 FT

COAST GUARD BASE

35-FOOT CHANNEL
CHARLES RIVER

35-FOOT CHANNEL
CHARLESTOWN REACH

40-FOOT CHANNEL
CHARLESTOWN REACH

35-FOOT CHANNEL
NORTH END REACH

40-FOOT CHANNEL
NORTH END REACH

35-FOOT CHANNEL
CHARLESTOWN REACH

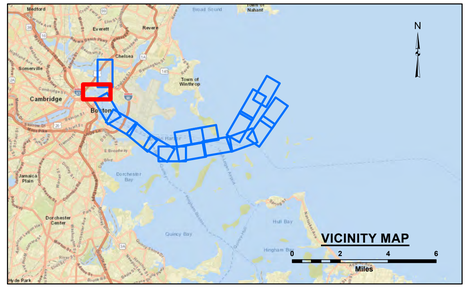
LIGHT 14
(FL R 14)

FLOOD

EBB

600'

520+00 510+00 500+00 20+00 10+00 0+00



LEGEND

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

** Shoalest Sounding per Quarter per Reach

GRAPHIC SCALE

200 0 200 400

1" = 200' Feet

N W E S

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: FOPHAM BEACH
Sonar System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS Tides
GPS_System: INS Integrated Reson
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance:50'
Field Books: R&H 4985
Survey No.: MA18_BOS_20250723_CS_044
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Project Remarks

Federal Navigation Project not surveyed in its entirety.

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

SURVEYED BY: MJD
CHECKED BY: ZSM
SUBMITTED BY: Barrett Morse
APPROVED BY: NAE Survey
ISSUE DATE: 8/19/2025
SIZE: ANSI D
MAP DOCUMENT: MA_18_BOS_20250723_CS_044

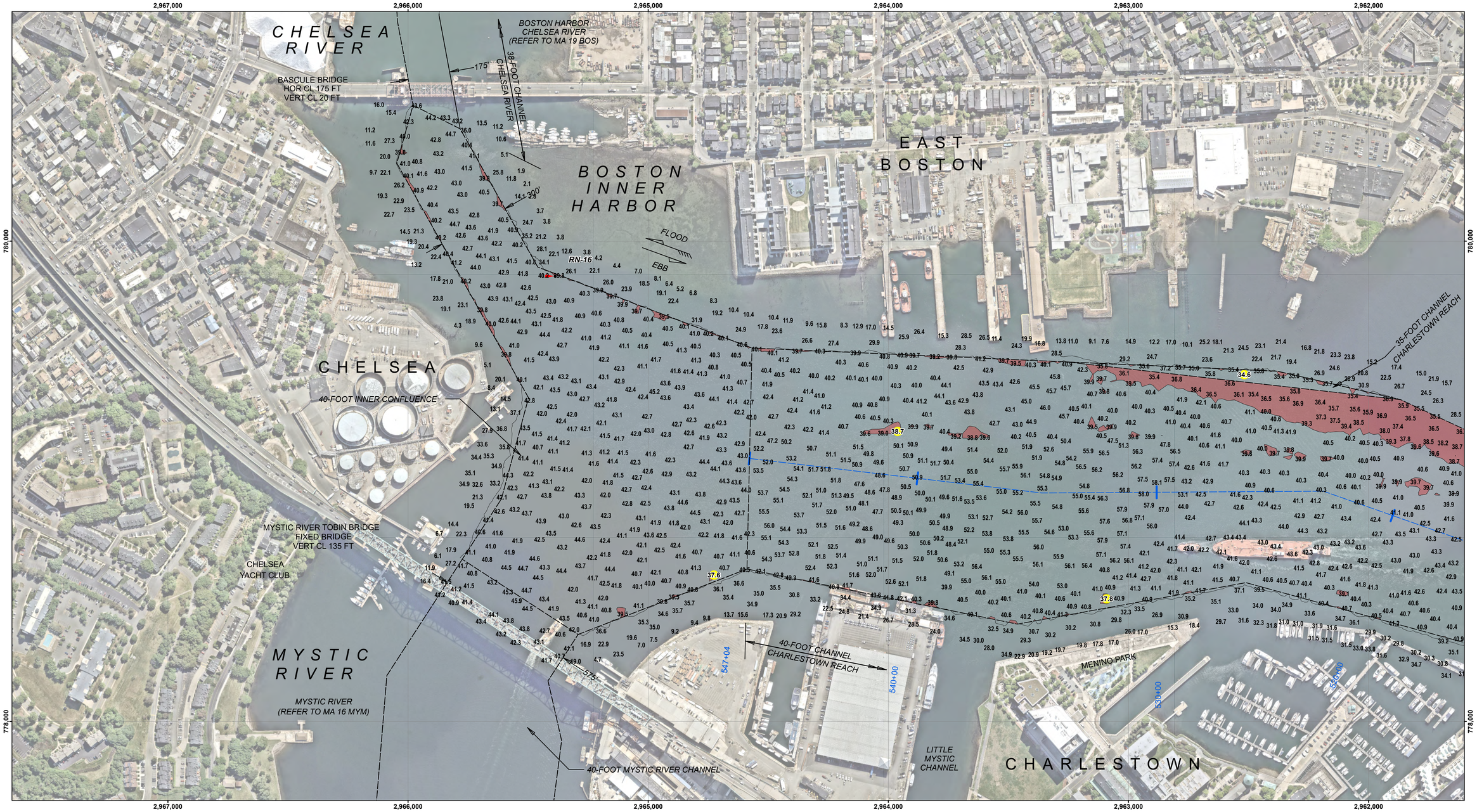
BOSTON HARBOR
BOSTON, MASSACHUSETTS
CONDITION SURVEY
30, 35, 40, 47 AND 51-FOOT CHANNELS
35 AND 47-FOOT ANCHORAGES
40 AND 51-FOOT CONFLUENCES

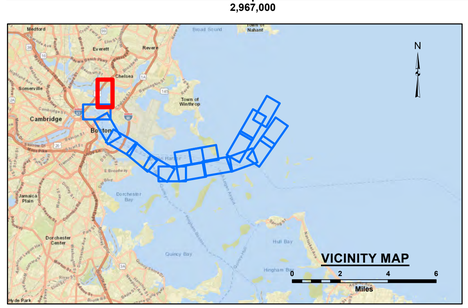
File Name: MA_18_BOS_20250723_CS_044

SHEET IDENTIFICATION
Boston Harbor

Sheet 16 of 17

Revision Number: 5.24.09.03-5.24.09.03





LEGEND

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

** Shoalest Sounding per Quarter per Reach

GRAPHIC SCALE

200 0 200 400

1" = 200' Feet

N E S W

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: POPHAM BEACH
Sonar System: Reson T50 (Multibeam Sonar)
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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: MJD
CHECKED BY: ZSM
ISSUE DATE: 8/19/2025
SUBMITTED BY: Barrett Morse
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: MA_18_BOS_20250723_CS_044

BOSTON HARBOR
BOSTON, MASSACHUSETTS
CONDITION SURVEY
30, 35, 40, 47 AND 51-FOOT CHANNELS
35 AND 47-FOOT ANCHORAGES
40 AND 51-FOOT CONFLUENCES
File Name: **MA_18_BOS_20250723_CS_044**

SHEET IDENTIFICATION
Boston Harbor

Sheet 17 of 17

Revision Number: 5.24.09.03-5.24.09.03