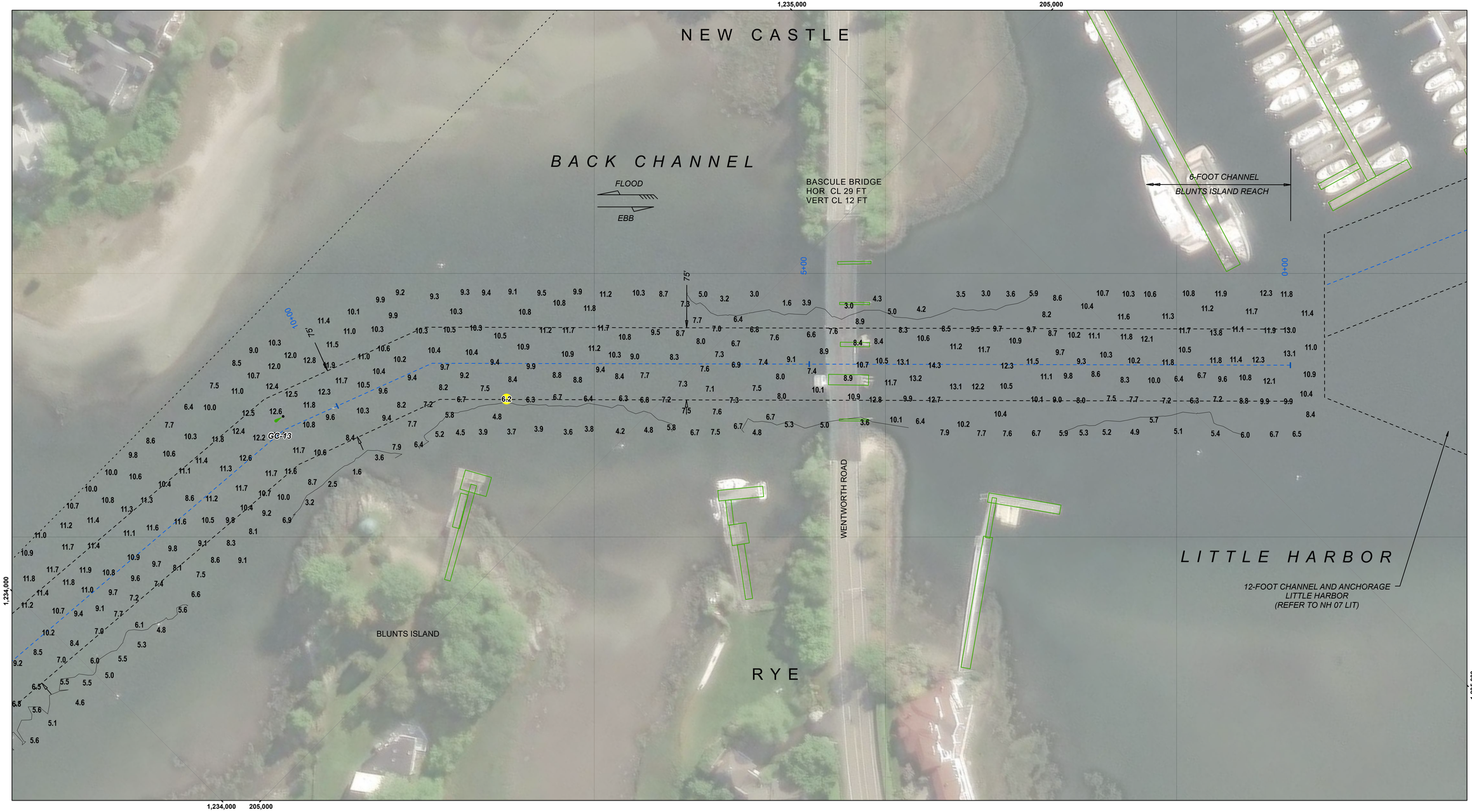
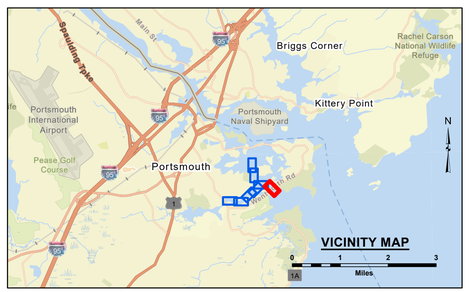




LEGEND

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

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

GRAPHIC SCALE

50 0 50 100

1" = 50' Feet

Notes:

Horizontal Datum: New Hampshire, NH-2800 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: 20'
Field Books: R&H 4986
Survey No.: NH_02_PIS_20260601_CS_028
Reference NOAA Chart No.: US5NH04M

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Project Remarks

Marine infrastructure encroaching in federal navigation project limits. Marine infrastructure surveyed with Lidar.

Water Level Information

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US Army Corps of Engineers
District: CENAE

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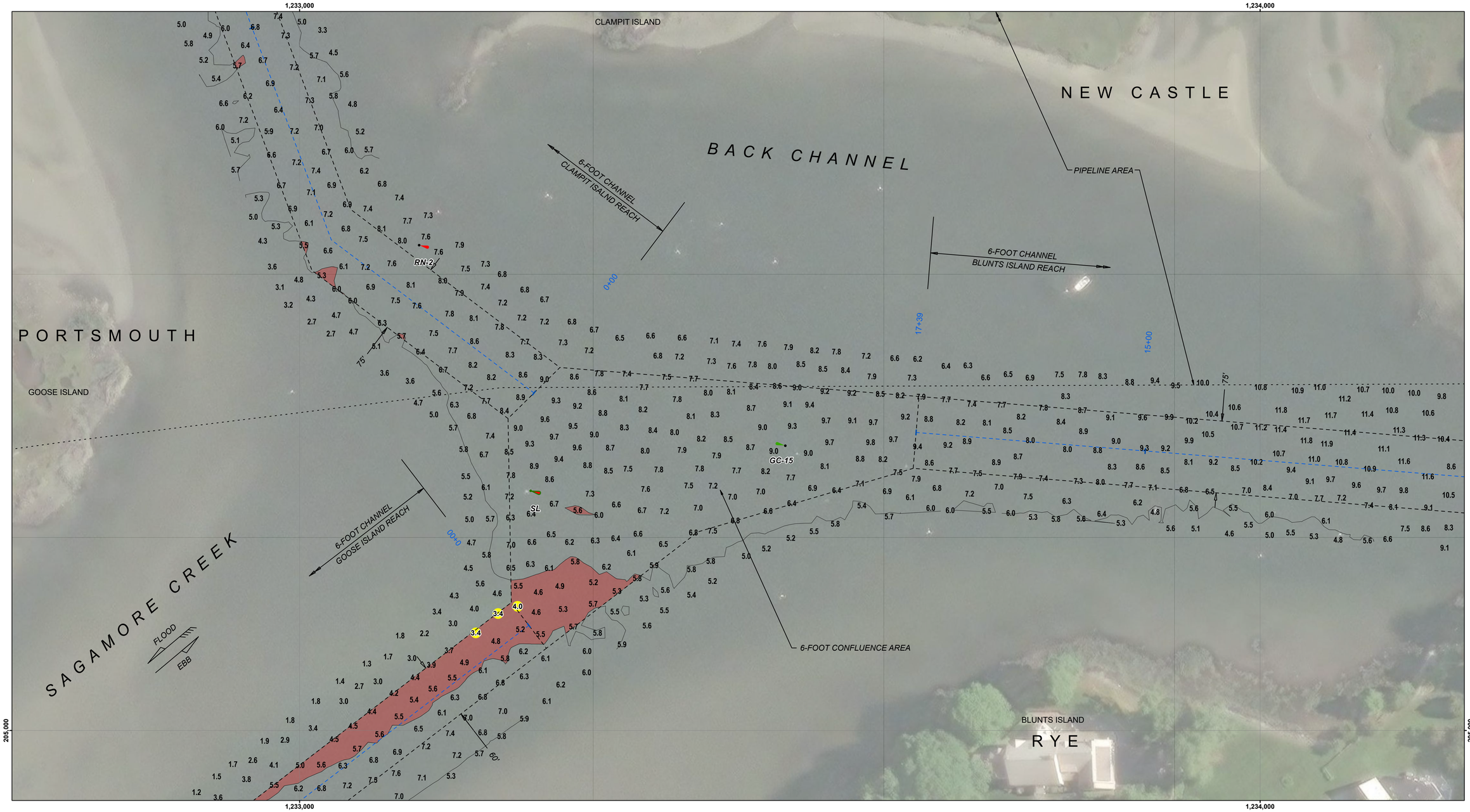
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

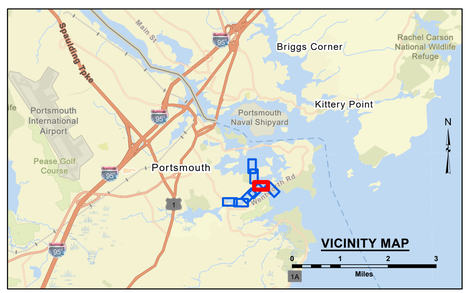
SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
SURVEYED BY: MJD
CHECKED BY: RD
ISSUE DATE: 6/23/2026
SIZE: ANSI D
MAP DOCUMENT: NH_02_PIS_20260601_CS_028

PORTSMOUTH HARBOR
BACK CHANNEL & SAGAMORE CREEK
PORTSMOUTH, RYE & NEW CASTLE,
NEW HAMPSHIRE
CONDITION SURVEY
6-FOOT CHANNELS
6-FOOT ANCHORAGE
File Name: NH_02_PIS_20260601_CS_028

SHEET IDENTIFICATION
Portsmouth Harbor, Back Channel and Sagamore Creek
Sheet 1 of 8

Revision Number: 5.26.04.06-5.26.04.06





LEGEND

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

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

GRAPHIC SCALE

1" = 50' 50 0 50 100 Feet

N W E S

Notes:
Horizontal Datum: New Hampshire, NH-2800 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: 20'
Field Books: R&H 4986
Survey No.: NH_02_PIS_20260601_CS_028
Reference NOAA Chart No.: US5NH04M

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Project Remarks
Marine infrastructure encroaching in federal navigation project limits. Marine infrastructure surveyed with Lidar.

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US Army Corps of Engineers
District: CENAE

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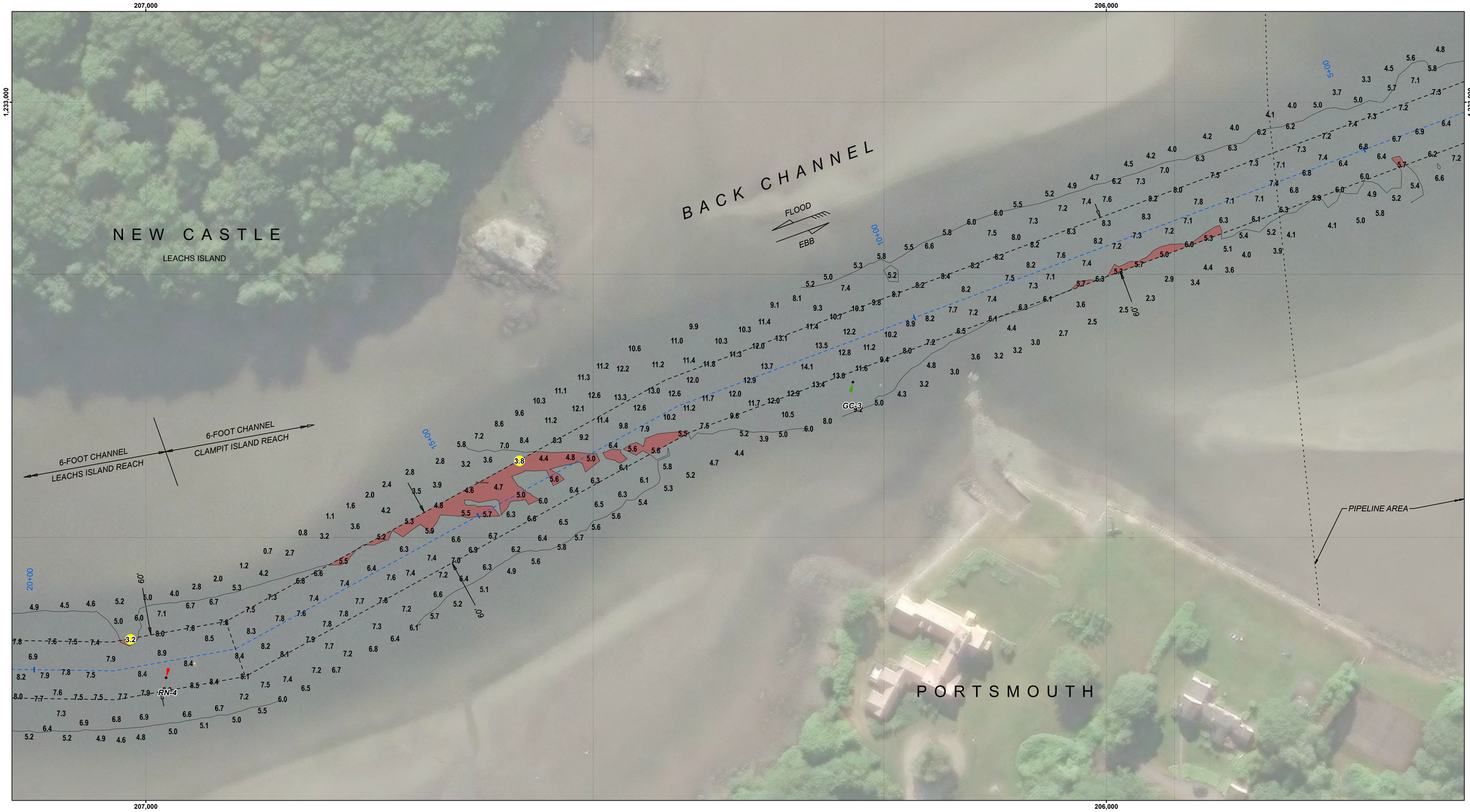
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NEW ENGLAND DISTRICT

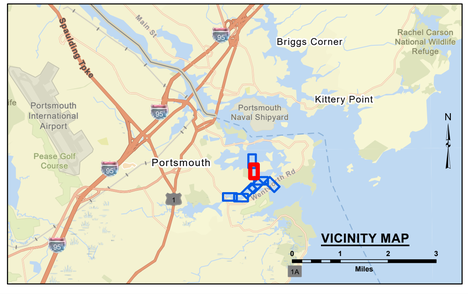
SURVEYED BY: MJD
CHECKED BY: RD
ISSUE DATE: 6/23/2026
SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: NH_02_PIS_20260601_CS_028

PORTSMOUTH HARBOR
BACK CHANNEL & SAGAMORE CREEK
PORTSMOUTH, RYE & NEW CASTLE,
NEW HAMPSHIRE
CONDITION SURVEY
6-FOOT CHANNELS
6-FOOT ANCHORAGE
File Name: NH_02_PIS_20260601_CS_028

SHEET IDENTIFICATION
Portsmouth Harbor, Back Channel and Sagamore Creek
Sheet 2 of 8

Revision Number: 5.26.04.06-5.26.04.06





LEGEND

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

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

GRAPHIC SCALE

1" = 50' 50 0 50 100 Feet

Notes:

Horizontal Datum: New Hampshire, NH-2800 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: 20'
Field Books: R&H 4986
Survey No.: NH_02_PIS_20260601_CS_028
Reference NOAA Chart No.: US5NH04M

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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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NEW ENGLAND DISTRICT

SURVEYED BY: MJD
CHECKED BY: RD
ISSUE DATE: 6/23/2026

SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey

MAP DOCUMENT: NH_02_PIS_20260601_CS_028
SIZE: ANSI D

PORTSMOUTH HARBOR
BACK CHANNEL & SAGAMORE CREEK
PORTSMOUTH, RYE & NEW CASTLE,
NEW HAMPSHIRE
CONDITION SURVEY
6-FOOT CHANNELS
6-FOOT ANCHORAGE

File Name: NH_02_PIS_20260601_CS_023

SHEET IDENTIFICATION
Portsmouth Harbor, Back Channel and Sagamore Creek
Sheet 3 of 8

Revision Number: 5.26.04.06-5.26.04.06

208,000 207,000

NEW CASTLE

LEACHS ISLAND

6-FOOT CHANNEL
LEACHS ISLAND REACH

6-FOOT CHANNEL
CLAMPIT ISLAND REACH

27+60 25+00 20+00

60' 60'

3.2

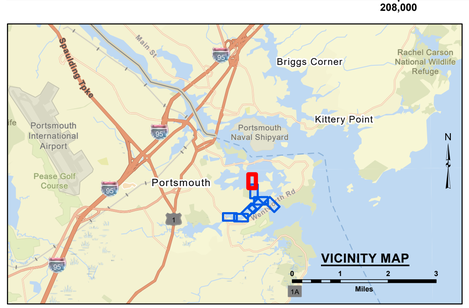
RN-4

BACK CHANNEL

FLOOD

EBB

208,000 207,000



LEGEND

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

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

GRAPHIC SCALE

50 0 50 100

1" = 50' Feet

N E S W

Notes:

Horizontal Datum: New Hampshire, NH-2800 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: 20'
Field Books: R&H 4986
Survey No.: NH_02_PIS_20260601_CS_028
Reference NOAA Chart No.: US5NH04M

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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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NEW ENGLAND DISTRICT

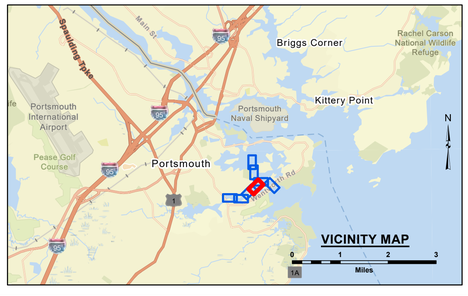
SURVEYED BY: MJD
CHECKED BY: RD
ISSUE DATE: 6/23/2026
SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: NH_02_PIS_20260601_CS_028

PORTSMOUTH HARBOR
BACK CHANNEL & SAGAMORE CREEK
PORTSMOUTH, RYE & NEW CASTLE, NEW HAMPSHIRE
CONDITION SURVEY
6-FOOT CHANNELS
6-FOOT ANCHORAGE
File Name: NH_02_PIS_20260601_CS_028

SHEET IDENTIFICATION
Portsmouth Harbor, Back Channel and Sagamore Creek
Sheet 4 of 8

Revision Number: 5.26.04.06-5.26.04.06





LEGEND

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

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

GRAPHIC SCALE

1" = 50'

50 0 50 100 Feet

Notes:

Horizontal Datum: New Hampshire, NH-2800 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
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Sounding Sort Distance: 20'
Field Books: R&H 4986
Survey No.: NH_02_PIS_20260601_CS_028
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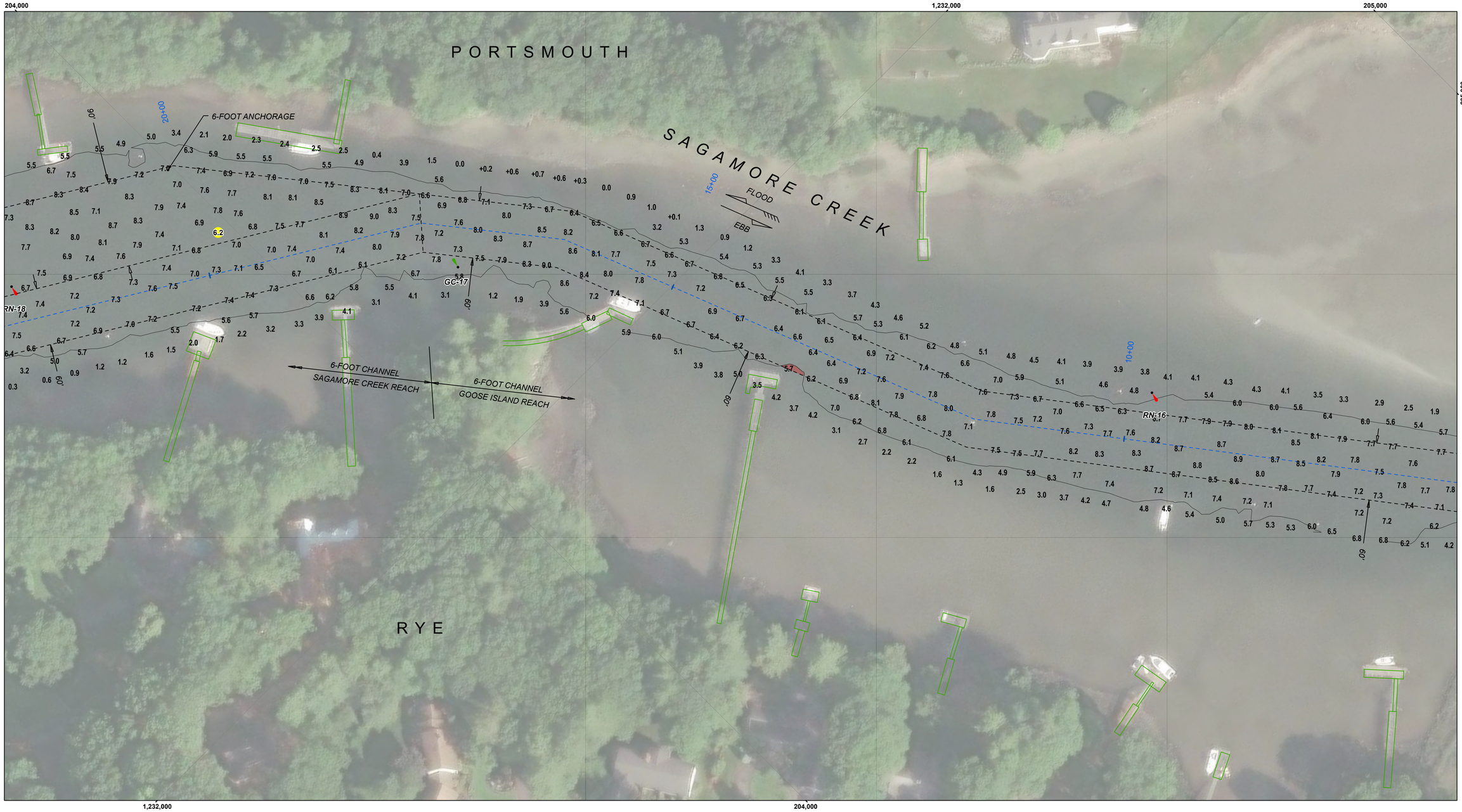
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

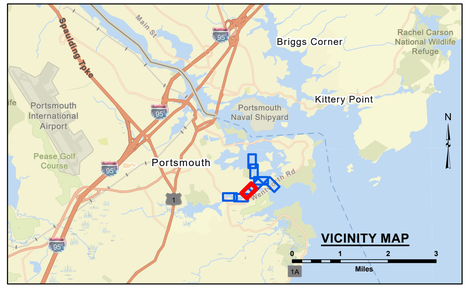
SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
SURVEYED BY: MJD
CHECKED BY: RD
ISSUE DATE: 6/23/2026
SIZE: ANSI D
MAP DOCUMENT: NH_02_PIS_20260601_CS_028

PORTSMOUTH HARBOR
BACK CHANNEL & SAGAMORE CREEK
PORTSMOUTH, RYE & NEW CASTLE,
NEW HAMPSHIRE
CONDITION SURVEY
6-FOOT CHANNELS
6-FOOT ANCHORAGE
File Name: NH_02_PIS_20260601_CS_028

SHEET IDENTIFICATION
Portsmouth Harbor, Back Channel and Sagamore Creek
Sheet 5 of 8

Revision Number: 5.26.04.06-5.26.04.06





LEGEND

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

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

GRAPHIC SCALE

1" = 50' 50 0 50 100 Feet

Notes:

Horizontal Datum: New Hampshire, NH-2800 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
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RTK Base Station: MTS Smartnet Max
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Sounding Sort Distance: 20'
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Survey No.: NH_02_PIS_20260601_CS_028
Reference NOAA Chart No.: US5NH04M

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US Army Corps of Engineers
District: CENAE

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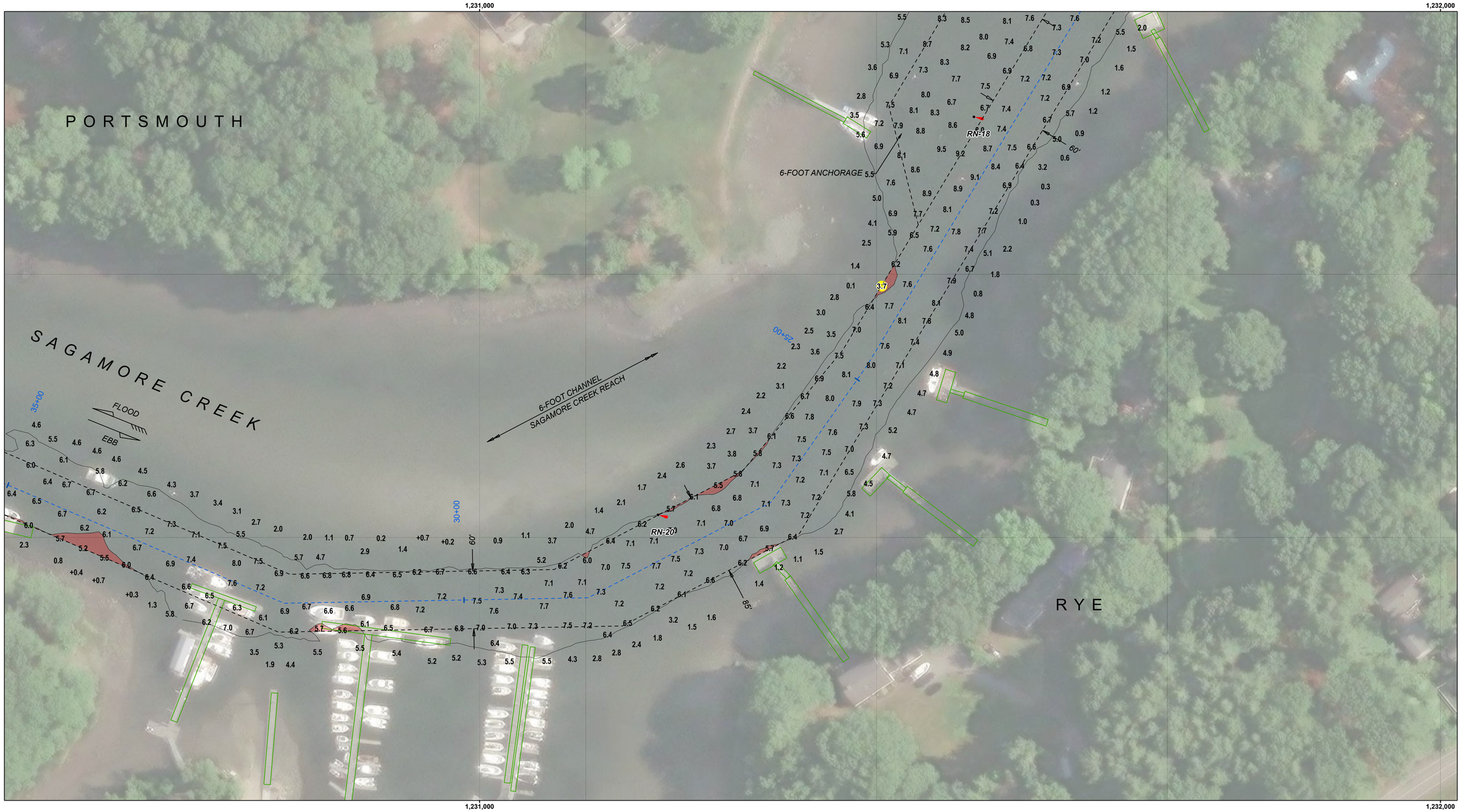
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

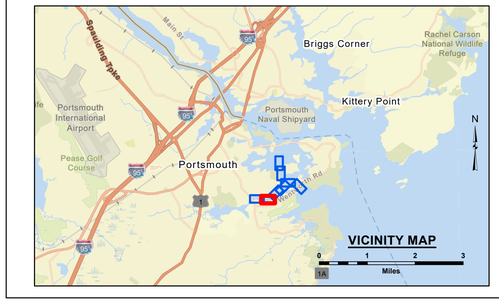
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SIZE: ANSI D
MAP DOCUMENT: NH_02_PIS_20260601_CS_028

PORTSMOUTH HARBOR
BACK CHANNEL & SAGAMORE CREEK
PORTSMOUTH, RYE & NEW CASTLE, NEW HAMPSHIRE
CONDITION SURVEY
6-FOOT CHANNELS
6-FOOT ANCHORAGE
File Name: NH_02_PIS_20260601_CS_028

SHEET IDENTIFICATION
Portsmouth Harbor, Back Channel and Sagamore Creek
Sheet 6 of 8

Revision Number: 5.26.04.06-5.26.04.06





LEGEND

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

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

GRAPHIC SCALE

1" = 50'

50 0 50 100 Feet

N W E S

Notes:

Horizontal Datum: New Hampshire, NH-2800 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: 20'
Field Books: R&H 4986
Survey No.: NH_02_PIS_20260601_CS_028
Reference NOAA Chart No.: US5NH04M

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

Marine infrastructure encroaching in federal navigation project limits. Marine infrastructure surveyed with Lidar.

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 corrections in the project area range from 4.72 feet to 5.01 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

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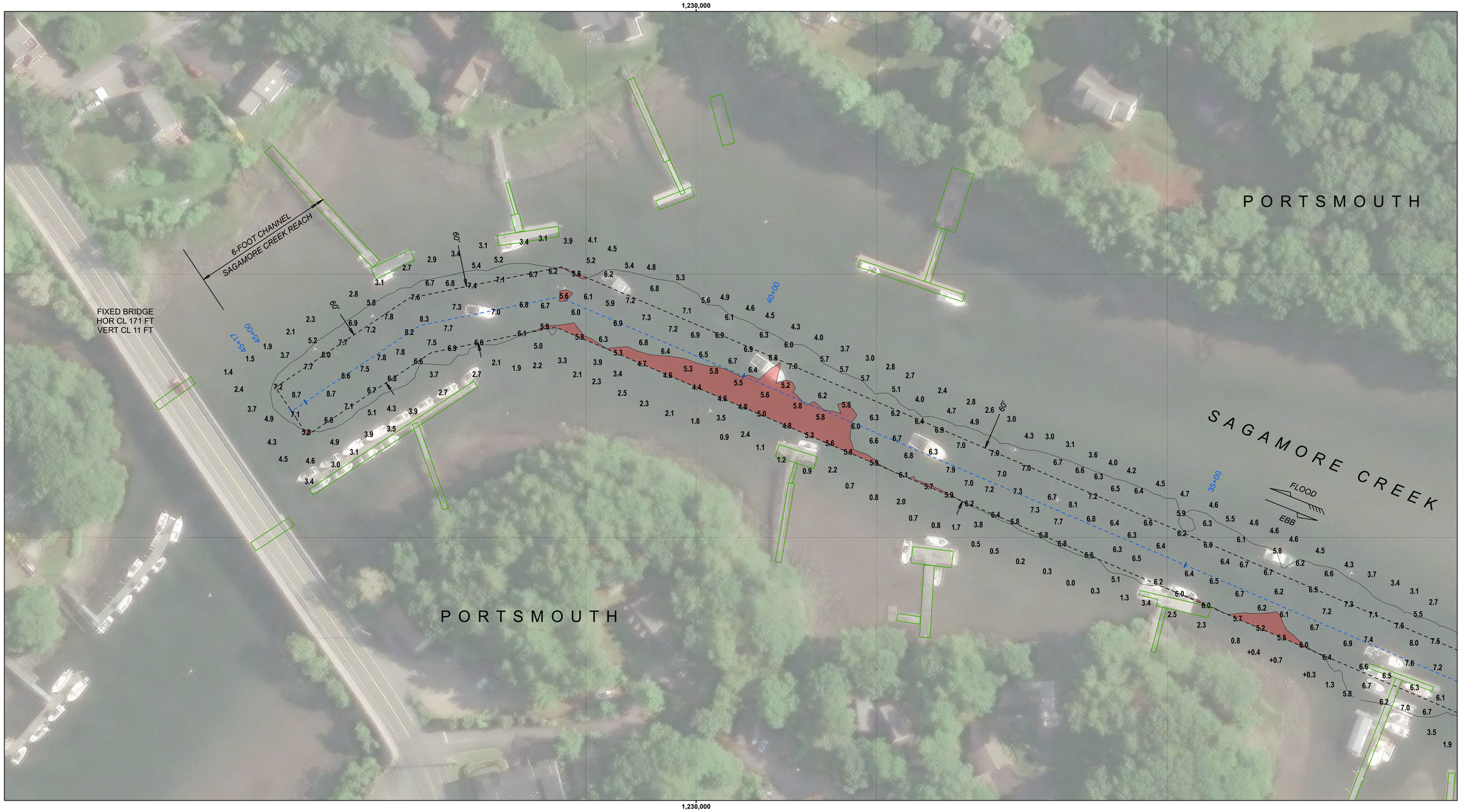
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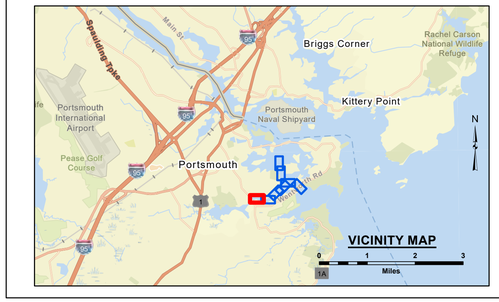
SURVEYED BY: MJD
CHECKED BY: RD
ISSUE DATE: 6/23/2026
SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
MAP DOCUMENT: NH_02_PIS_20260601_CS_028
SIZE: ANSI D

PORTSMOUTH HARBOR
BACK CHANNEL & SAGAMORE CREEK
PORTSMOUTH, RYE & NEW CASTLE, NEW HAMPSHIRE
CONDITION SURVEY
6-FOOT CHANNELS
6-FOOT ANCHORAGE
File Name: NH_02_PIS_20260601_CS_028

SHEET IDENTIFICATION
Portsmouth Harbor, Back Channel and Sagamore Creek
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Survey Method: RTK GPS Tides
GPS_System: INS Integrated Reson (RTK)
RTK Base Station: MTS Smartnet Max
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Sounding Sort Distance: 20'
Field Books: R&H 4986
Survey No.: NH_02_PIS_20260601_CS_028
Reference NOAA Chart No.: US5NH04M

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

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BACK CHANNEL & SAGAMORE CREEK
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