

LEGEND

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

** Shoalest Sounding per Quarter per Reach
* Present at time of survey

GRAPHIC SCALE

1" = 100' 100 0 100 200 Feet

Notes:
Horizontal Datum: Rhode Island, RI-3800 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: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Max (VRS)
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4984
Survey No.: RI_18_PAW_20241231_CS_106
Reference NOAA Chart No.: ENC-US5RI1EA

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.

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

Water Level Information
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US Army Corps of Engineers
District: CENAE

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey

SURVEYED BY: NCD
CHECKED BY: WHW
ISSUE DATE: 1/22/2025

MAP DOCUMENT: RI_18_PAW_20241231_CS_106
SIZE: ANSI D

PAWCATUCK RIVER, LITTLE NARRAGANSETT BAY AND WATCH HILL COVE STONINGTON, CONNECTICUT AND WESTERLY, RHODE ISLAND CONDITION SURVEY

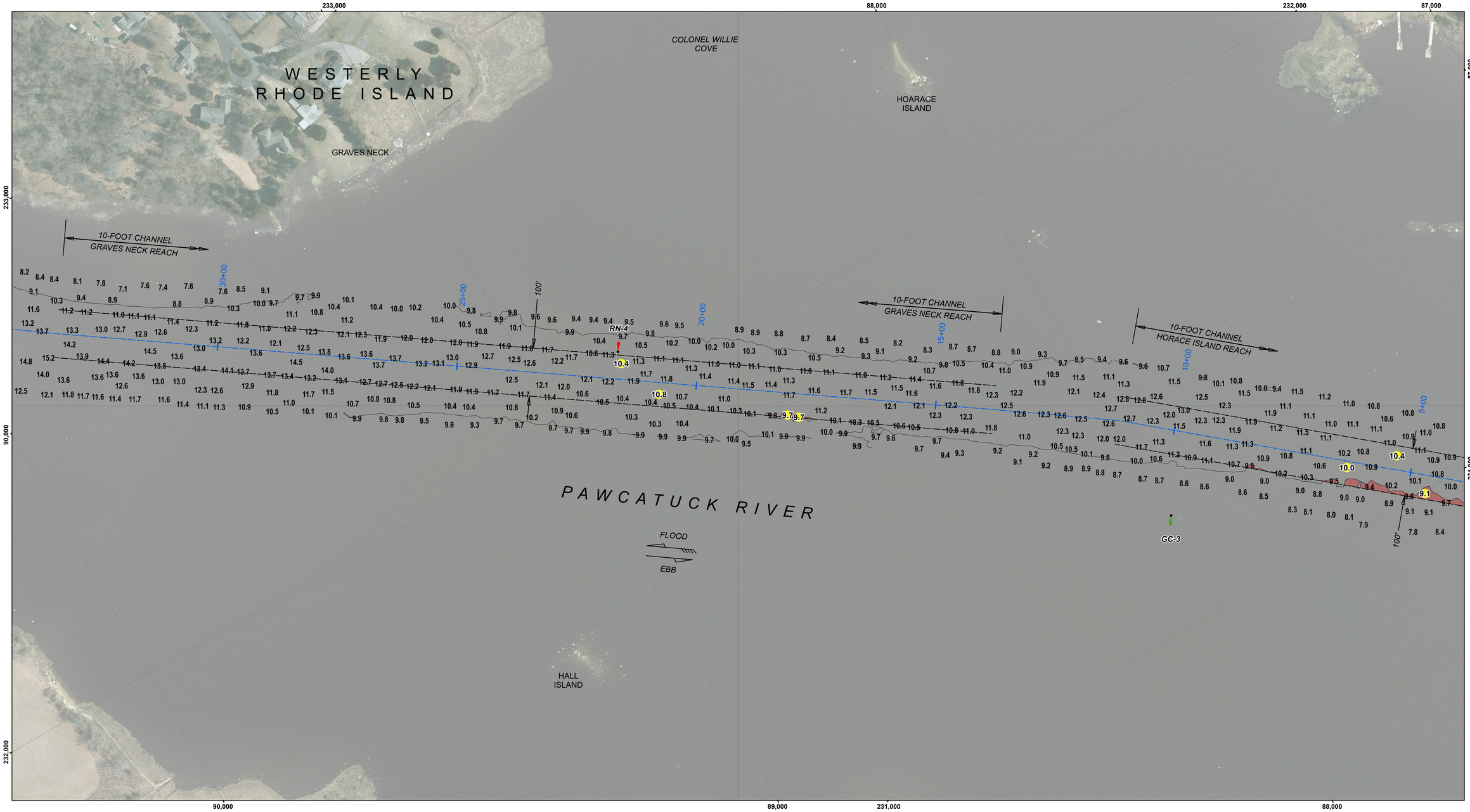
10 AND 7-FOOT CHANNELS

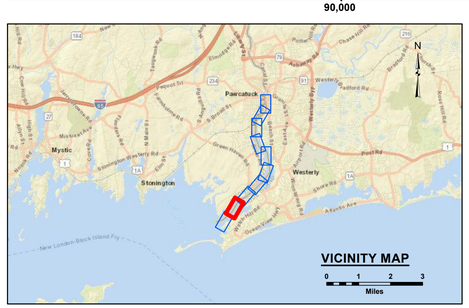
File Name: RI_18_PAW_20241231_CS_106

SHEET IDENTIFICATION
Pawcatuck River, Little Narragansett Bay & Watch Hill Cove, RI and CT

Sheet 1 of 10

Revison Number: 5.24.09.03-5.24.09.03





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- Green Navigation Buoy
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- Shoalest Sounding**

** Shoalest Sounding per Quarter per Reach
* Present at time of survey

GRAPHIC SCALE

100 0 100 200

1" = 100' Feet

Notes:
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Survey Method: RTK GPS Tides
GPS_System: Applanix POS MV (RTK)
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Sounding Sort Distance: 30'
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Reference NOAA Chart No.: ENC-US5RI1EA

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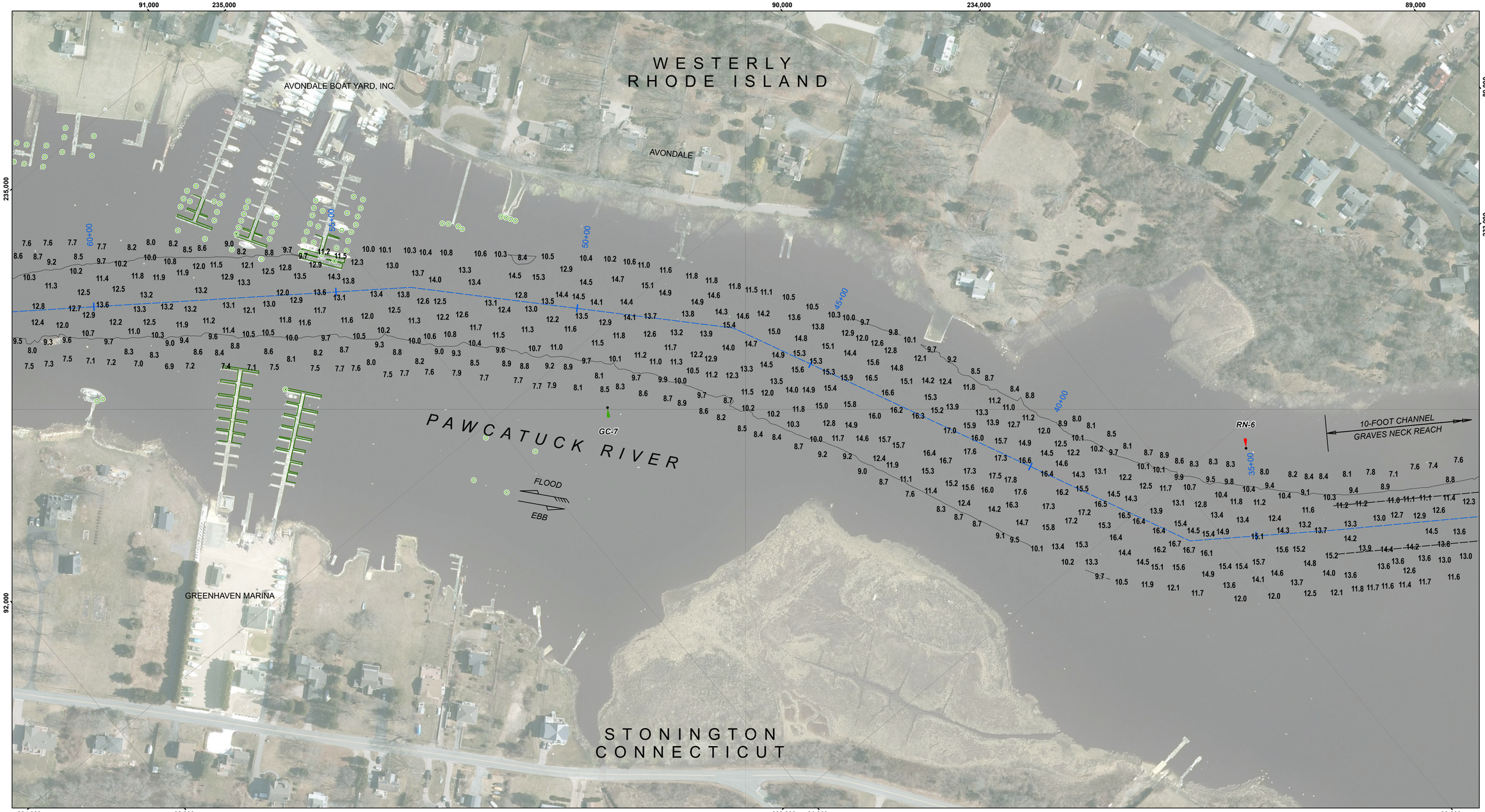
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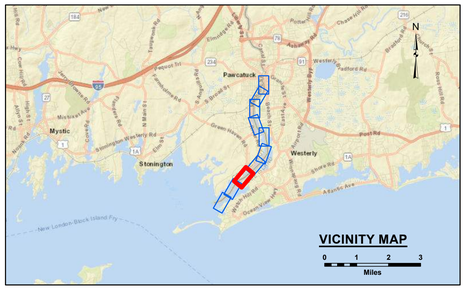
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SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
MAP DOCUMENT: RI_18_PAW_20241231_CS_106
SIZE: ANSI D

PAWCATUCK RIVER,
LITTLE NARAGANSETT BAY
AND WATCH HILL COVE
STONINGTON, CONNECTICUT AND
WESTERLY, RHODE ISLAND
CONDITION SURVEY
10 AND 7-FOOT CHANNELS
File Name: RI_18_PAW_20241231_CS_106

SHEET IDENTIFICATION
Pawcatuck River, Little Narragansett Bay & Watch Hill Cove, RI and CT
Sheet 2 of 10

Revison Number: 5.24.09.03-5.24.09.03





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Survey No.: RI_18_PAW_20241231_CS_106
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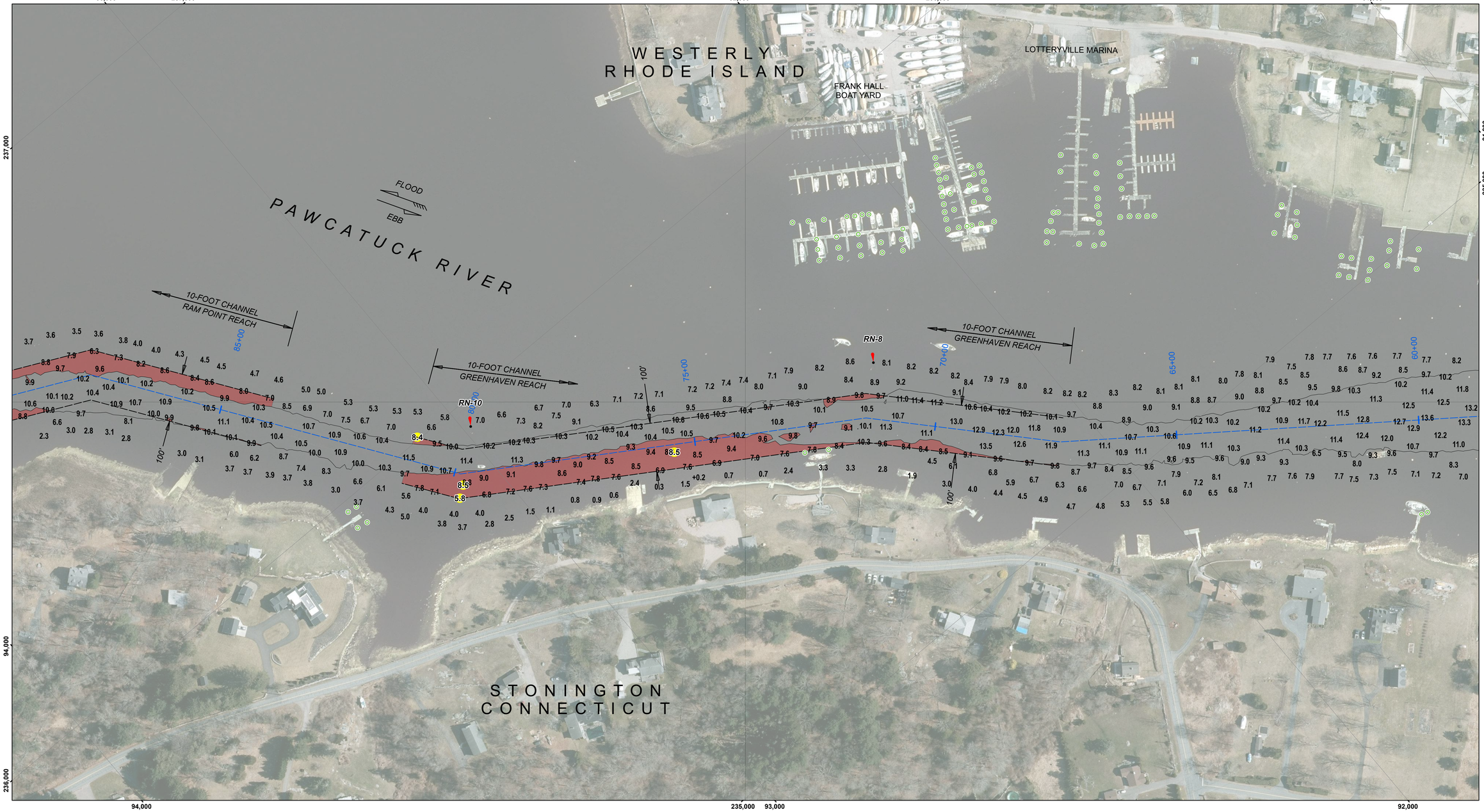
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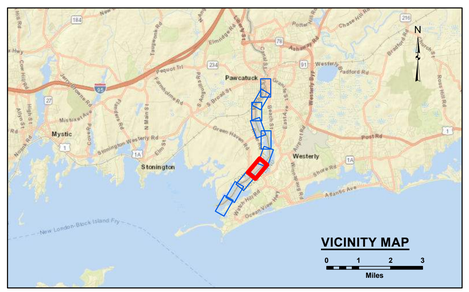
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ISSUE DATE: 1/22/2025
SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
MAP DOCUMENT: RI_18_PAW_20241231_CS_106
SIZE: ANSI D

PAWCATUCK RIVER,
LITTLE NARAGANSETT BAY
AND WATCH HILL COVE
STONINGTON, CONNECTICUT AND
WESTERLY, RHODE ISLAND
CONDITION SURVEY
10 AND 7-FOOT CHANNELS
File Name: RI_18_PAW_20241231_CS_106

SHEET IDENTIFICATION
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Sheet 3 of 10

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GRAPHIC SCALE

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Notes:
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Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Keegan
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Sounding Frequency: 400 kHz
Survey Method: RTK GPS Tides
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Max (VRS)
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Sounding Sort Distance: 30'
Field Books: R&H 4984
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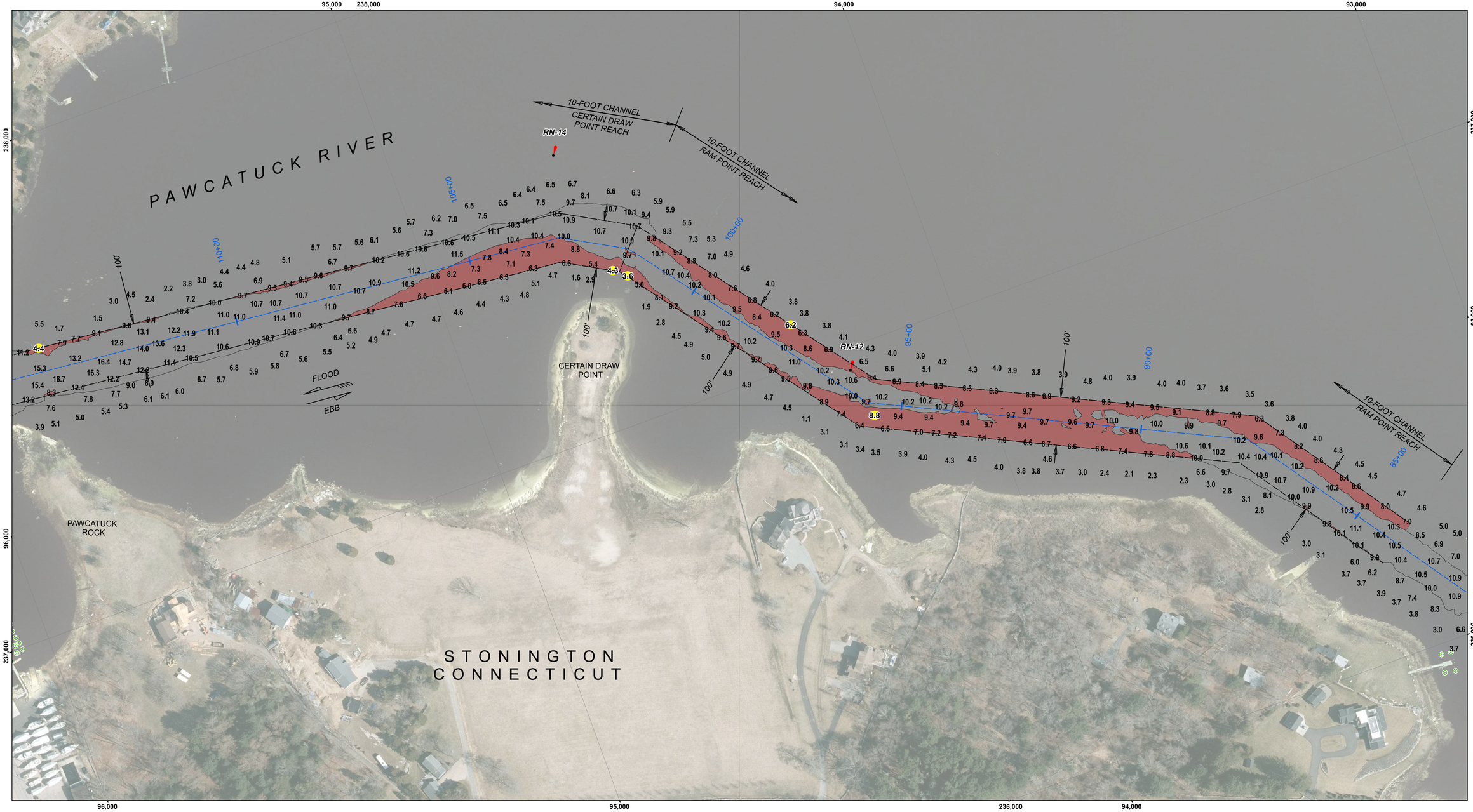
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NEW ENGLAND DISTRICT

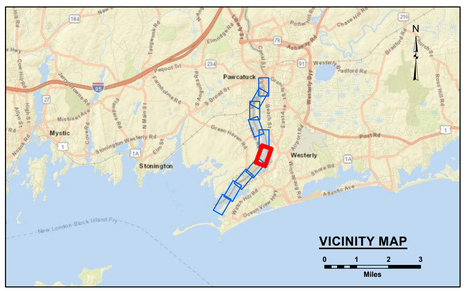
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PAWCATUCK RIVER,
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Sheet 4 of 10

Revison Number: 5.24.09.03-5.24.09.03





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N E S W

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US Army Corps of Engineers
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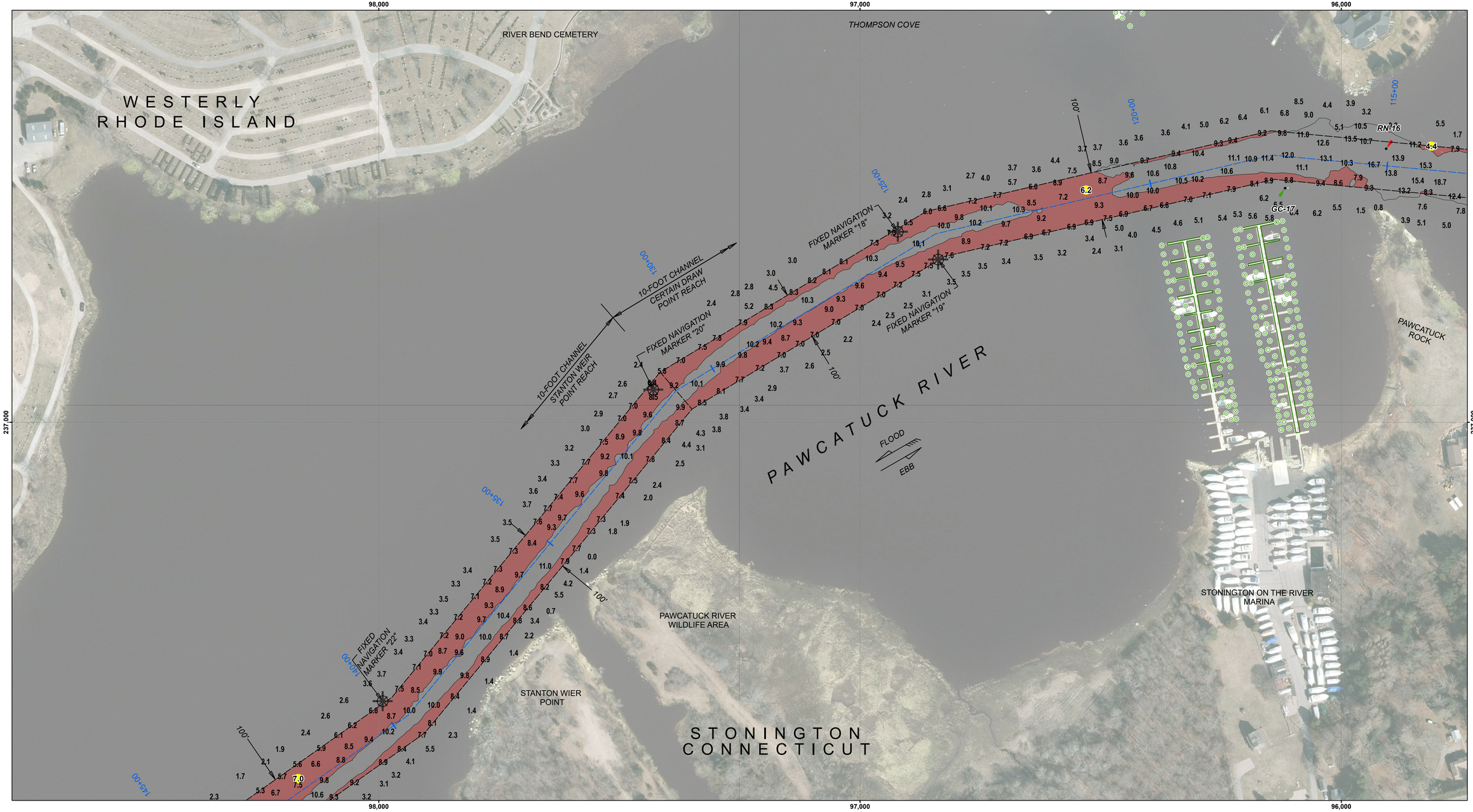
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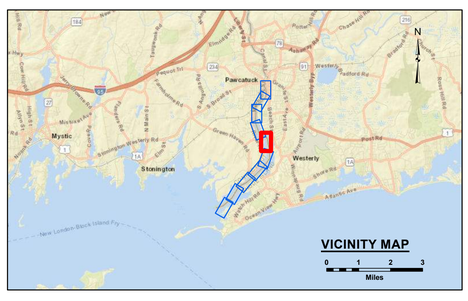
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10 AND 7-FOOT CHANNELS

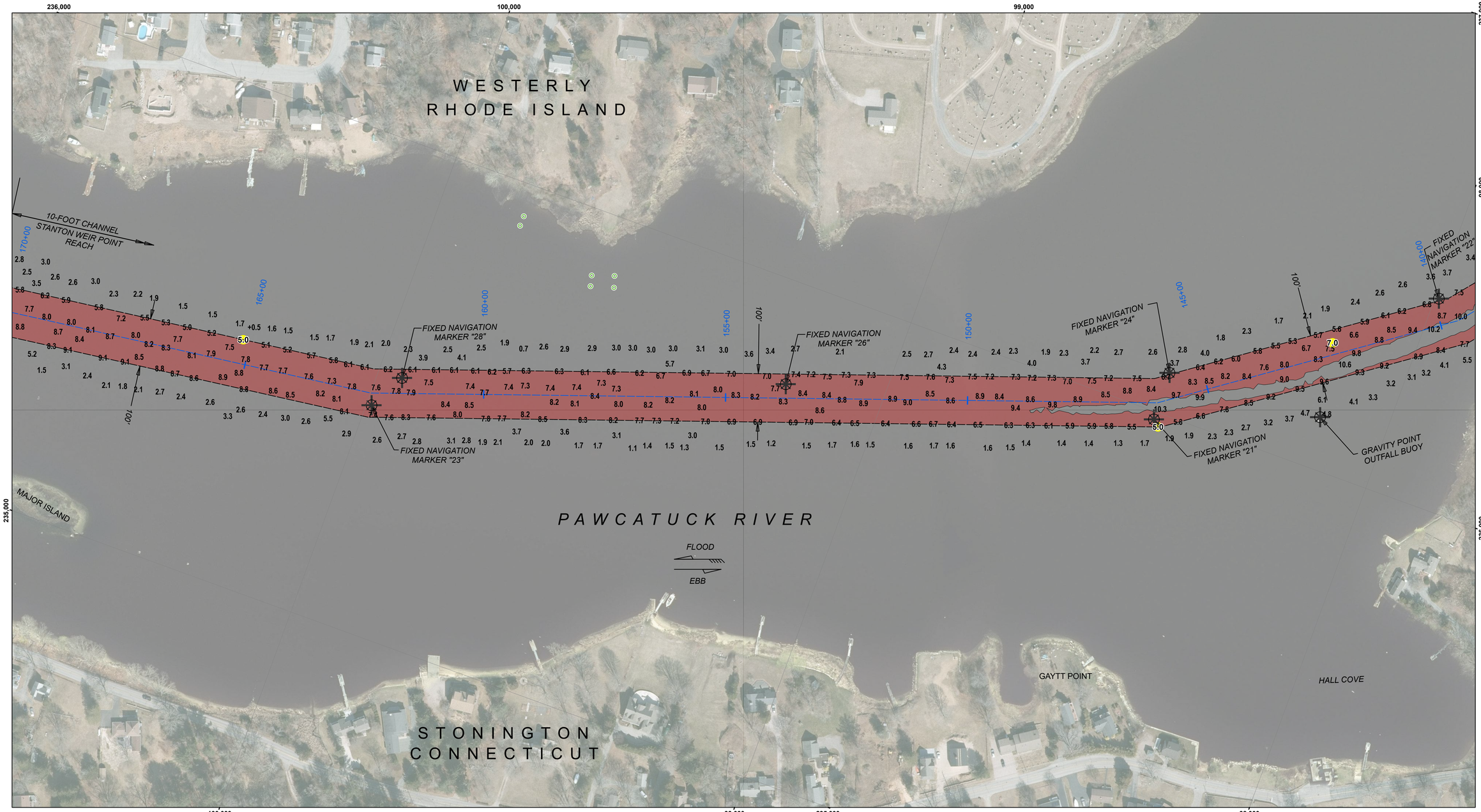
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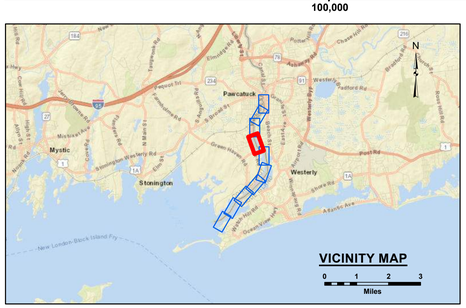
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Pawcatuck River, Little Narragansett Bay & Watch Hill Cove, RI and CT

Sheet 6 of 10

Revison Number: 5.24.09.03-5.24.09.03





LEGEND

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

** Shoalest Sounding per Quarter per Reach
* Present at time of survey

GRAPHIC SCALE

1" = 100' 100 0 100 200 Feet

Notes:
Horizontal Datum: Rhode Island, RI-3800 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: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Max (VRS)
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4984
Survey No.: RI_18_PAW_20241231_CS_106
Reference NOAA Chart No.: ENC-US5RI1EA

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Project Remarks
Marine infrastructure within federal navigation project limits 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 Connecticut/ Rhode Island Version 4.4. The corrections in the project area range from 1.79 feet to 1.84 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).

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: NCD
CHECKED BY: WHW
ISSUE DATE: 1/22/2025
SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: RI_18_PAW_20241231_CS_106

PAWCATUCK RIVER, LITTLE NARAGANSETT BAY AND WATCH HILL COVE STONINGTON, CONNECTICUT AND WESTERLY, RHODE ISLAND CONDITION SURVEY

10 AND 7-FOOT CHANNELS

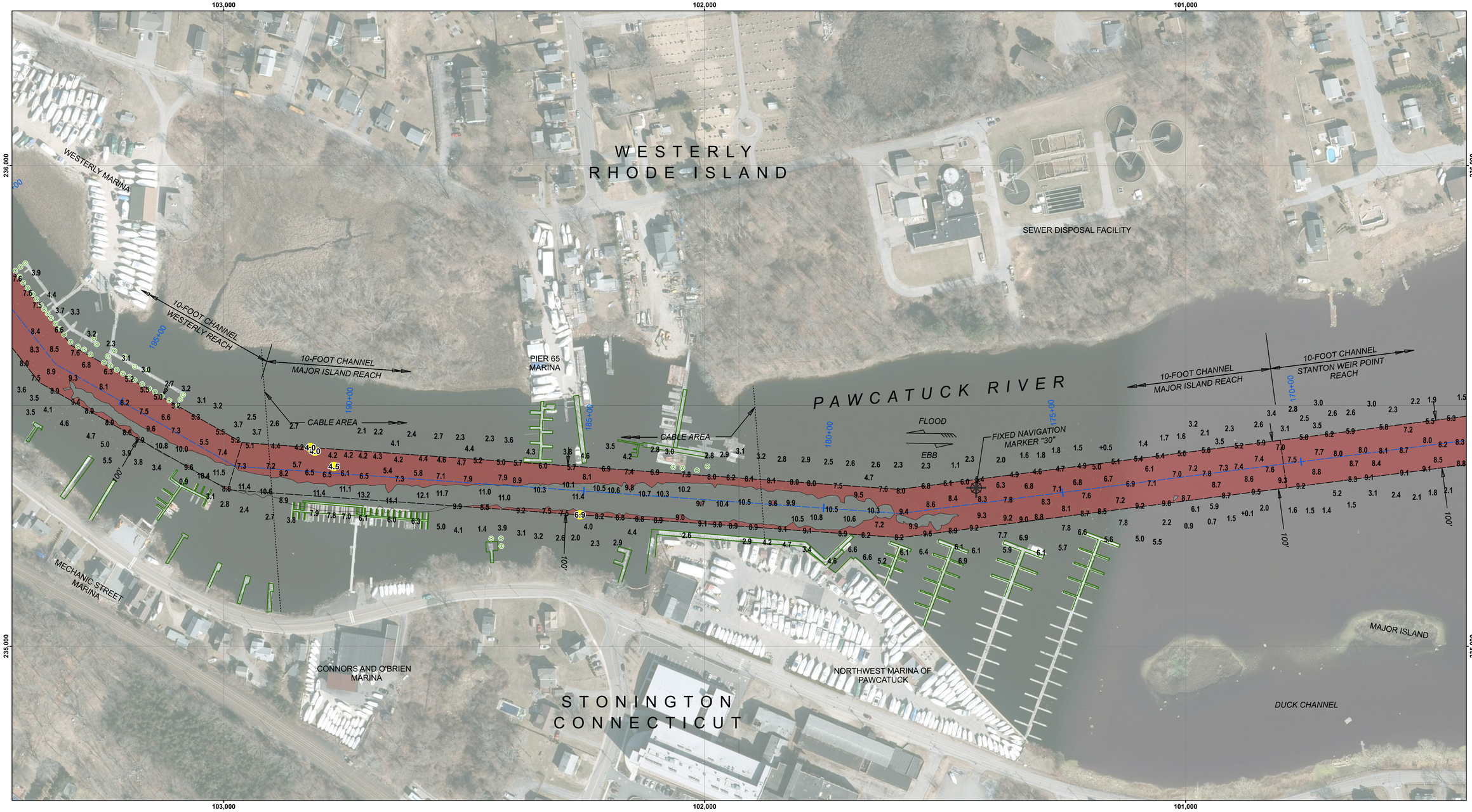
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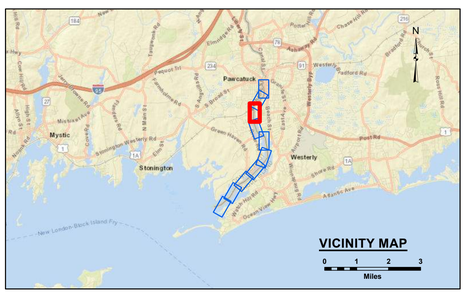
SHEET IDENTIFICATION

Pawcatuck River, Little Narragansett Bay & Watch Hill Cove, RI and CT

Sheet 7 of 10

Revison Number: 5.24.09.03-5.24.09.03





LEGEND

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

** Shoalest Sounding per Quarter per Reach
* Present at time of survey

GRAPHIC SCALE

100 0 100 200

1" = 100' Feet

N E S W

Notes:
Horizontal Datum: Rhode Island, RI-3800 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: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Max (VRS)
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4984
Survey No.: RI_18_PAW_20241231_CS_106
Reference NOAA Chart No.: ENC-US5RI1EA

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

Water Level Information
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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: NCD
CHECKED BY: WHW
ISSUE DATE: 1/22/2025
SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: RI_18_PAW_20241231_CS_106

PAWCATUCK RIVER, LITTLE NARAGANSETT BAY AND WATCH HILL COVE STONINGTON, CONNECTICUT AND WESTERLY, RHODE ISLAND CONDITION SURVEY

10 AND 7-FOOT CHANNELS

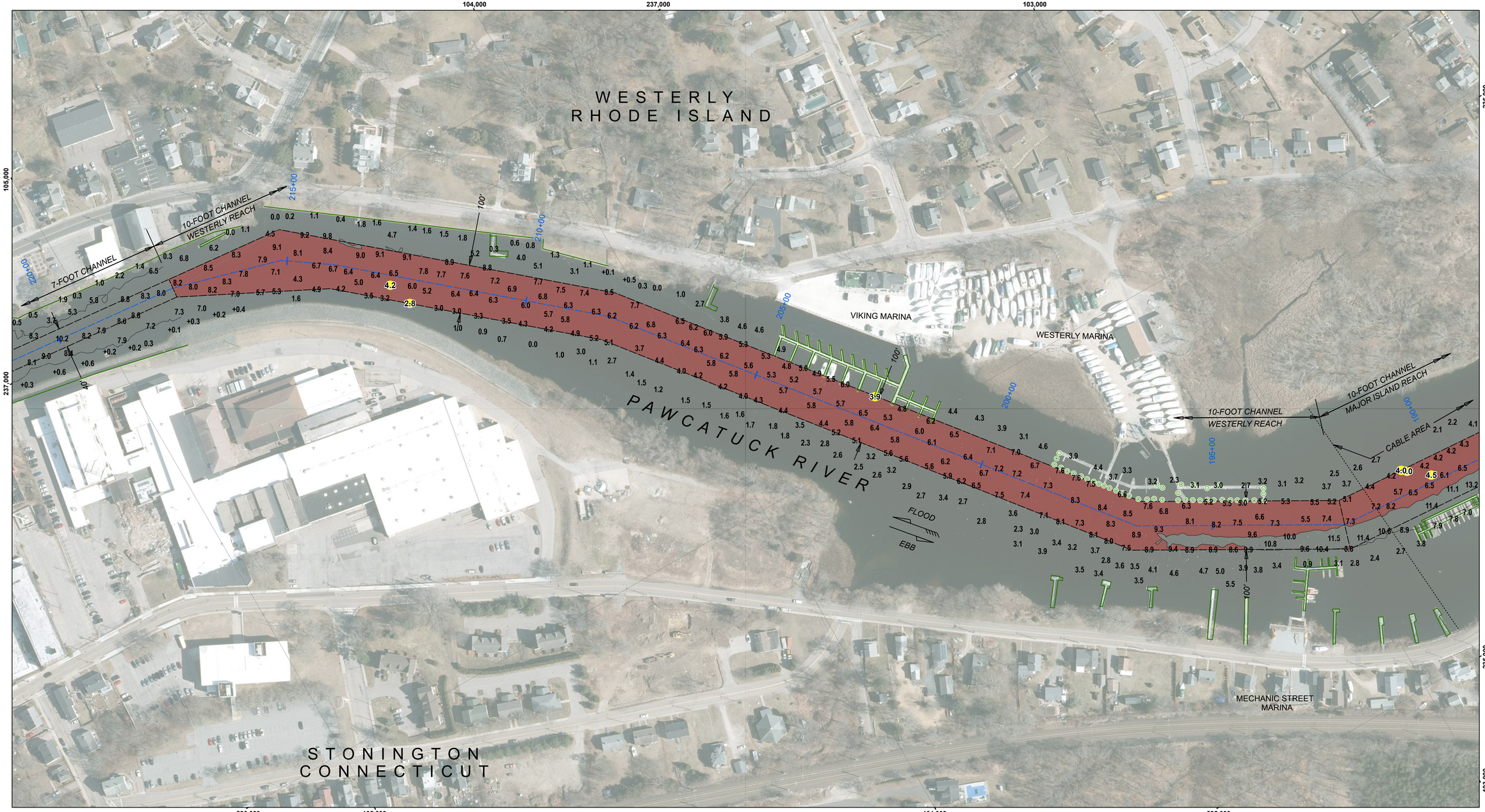
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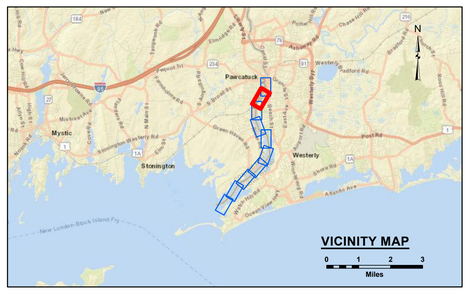
SHEET IDENTIFICATION

Pawcatuck River, Little Narragansett Bay & Watch Hill Cove, RI and CT

Sheet 8 of 10

Revison Number: 5.24.09.03-5.24.09.03





LEGEND

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- Shoalest Sounding**

** Shoalest Sounding per Quarter per Reach
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GRAPHIC SCALE

1" = 100' 100 0 100 200 Feet

Notes:
Horizontal Datum: Rhode Island, RI-3800 NAD 83
Distance Units: U.S. Survey Feet
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Depth Units: U.S. Survey Feet
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NEW ENGLAND DISTRICT

SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
SURVEYED BY: NCD
CHECKED BY: WHW
ISSUE DATE: 1/22/2025
SIZE: ANSI D
MAP DOCUMENT: RI_18_PAW_20241231_CS_106

PAWCATUCK RIVER, LITTLE NARAGANSETT BAY AND WATCH HILL COVE STONINGTON, CONNECTICUT AND WESTERLY, RHODE ISLAND CONDITION SURVEY

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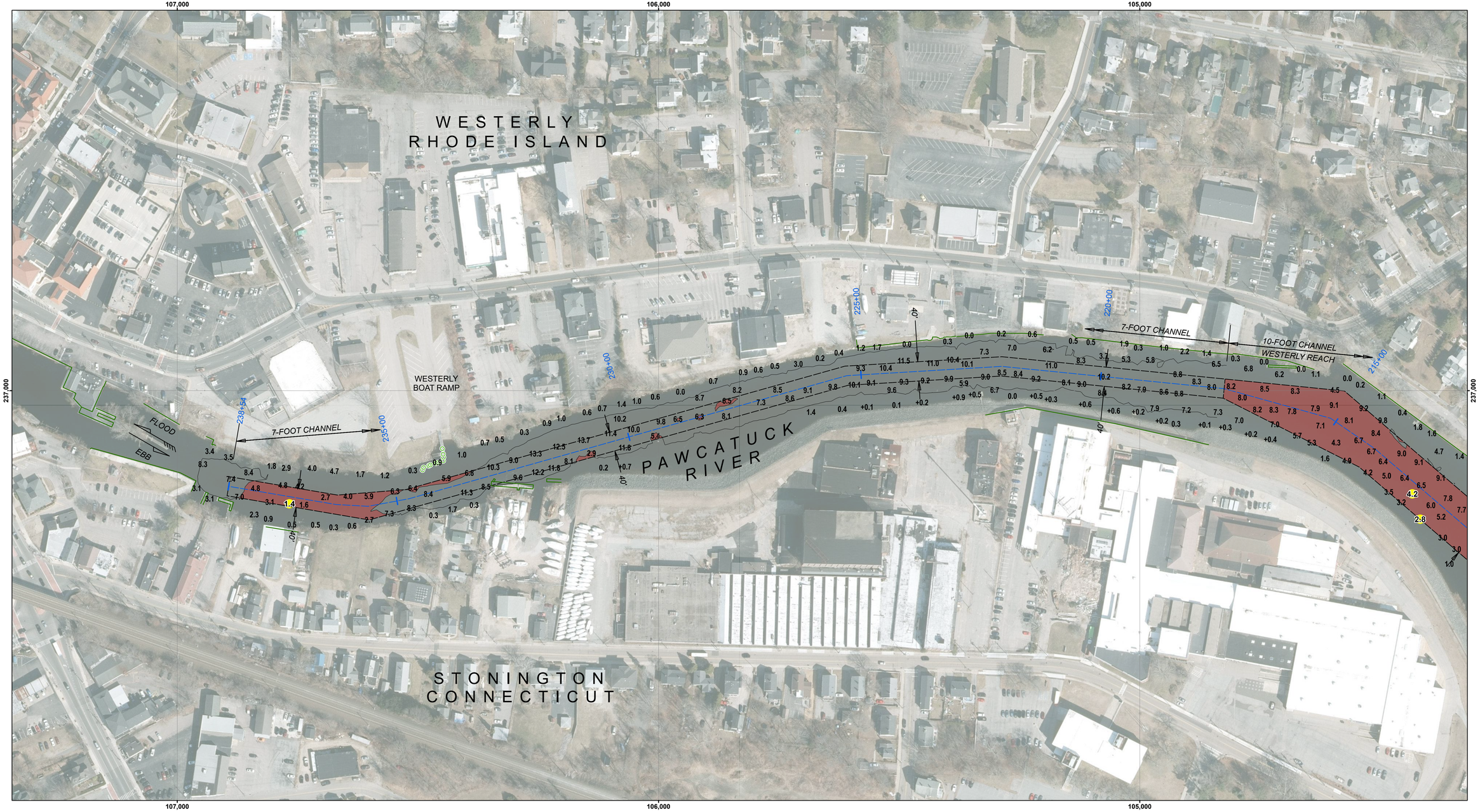
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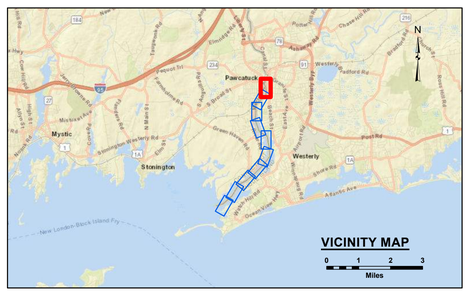
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Sheet 9 of 10

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NEW ENGLAND DISTRICT

SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
SURVEYED BY: NCD
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ISSUE DATE: 1/22/2025
SIZE: ANSI D
MAP DOCUMENT: RI_18_PAW_20241231_CS_106

PAWCATUCK RIVER,
LITTLE NARAGANSETT BAY
AND WATCH HILL COVE
STONINGTON, CONNECTICUT AND
WESTERLY, RHODE ISLAND
CONDITION SURVEY

10 AND 7-FOOT CHANNELS

File Name: RI_18_PAW_20241231_CS_106

SHEET IDENTIFICATION
Pawcatuck River, Little Narragansett Bay & Watch Hill Cove, RI and CT

Sheet 10 of 10

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