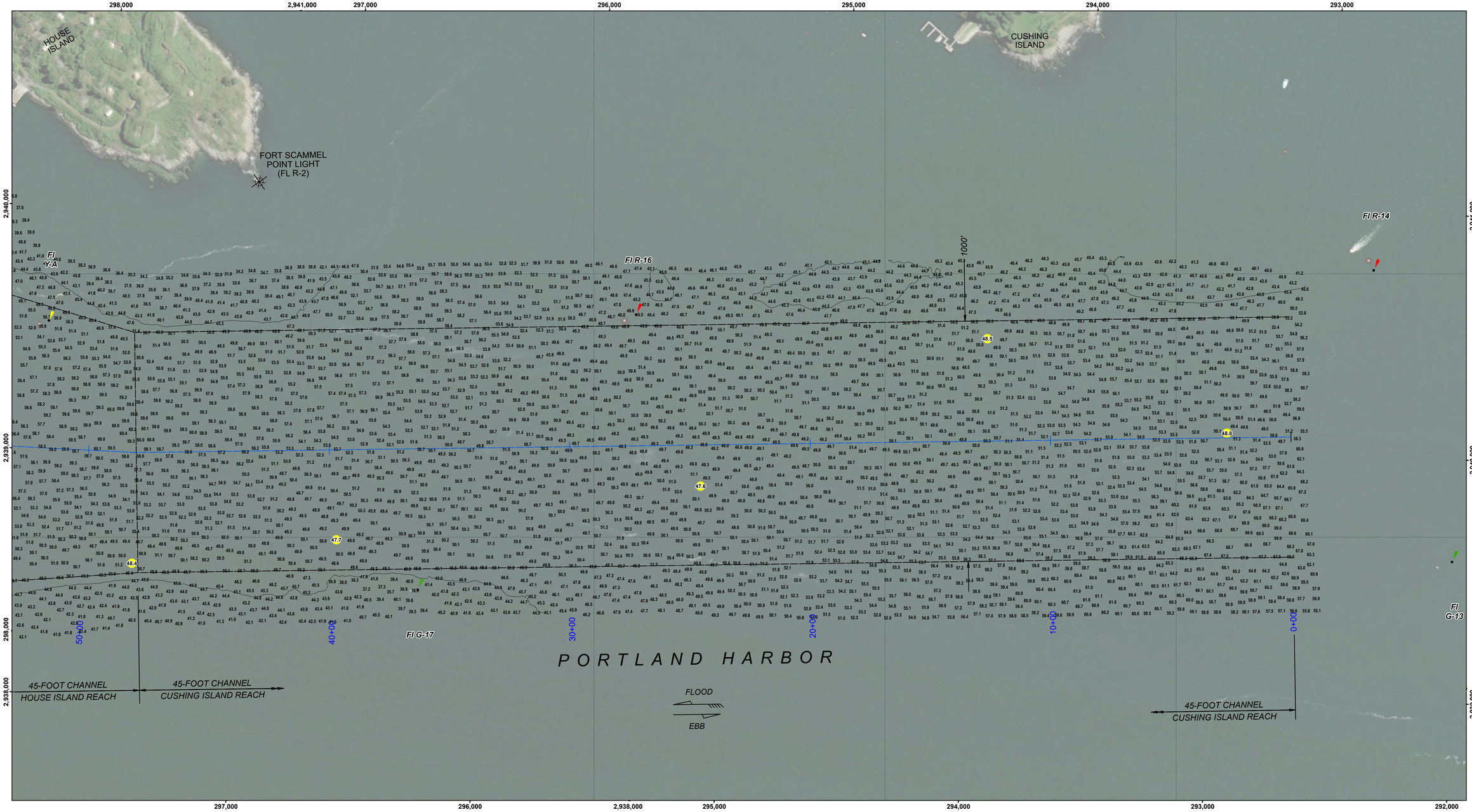
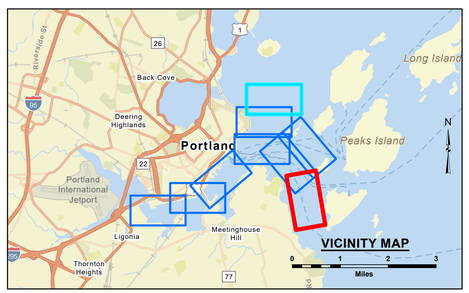




LEGEND

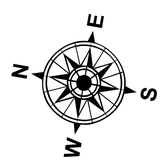
- Federal Navigation Channel
- Channel Center Line
- Cable/pipeline area
- Pipes (Gas/Sewer)
- Contour Line
- Fixed Navigation Aids
- Red Navigation Buoy
- Green Navigation Buoy
- Yellow Navigation Buoy
- Shoaling Area
- Shoalest Sounding**

** Shoalest Sounding per Quarter per Reach

GRAPHIC SCALE

200 0 200 400

1" = 200' Feet



Notes:

Horizontal Datum:Maine West, ME-1802 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: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 40'
Field Books: R&H 4981
Survey No.: ME_57_POW_20240314_XC_010
Reference NOAA Chart No.: US5PWMDC, US5PWMCC

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

Combined survey dataset. Sounding coverage for the North and South 30-Foot Anchorages collected in January of 2024.

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 corrections for this project were obtained using NOAAs V-Datum Program. The V-Datum corrections range 5.07 feet to 5.27 feet, and are referenced from V-Datum Model Version 4.1, ME/NH/MA region Version 2.3. NAVD88 is above MLLW. Therefore, the correction should be added to NAVD88 to convert to MLLW. Mean Range of Tide is 9.12 feet. No tide gauges were used on this project.

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NEW ENGLAND DISTRICT

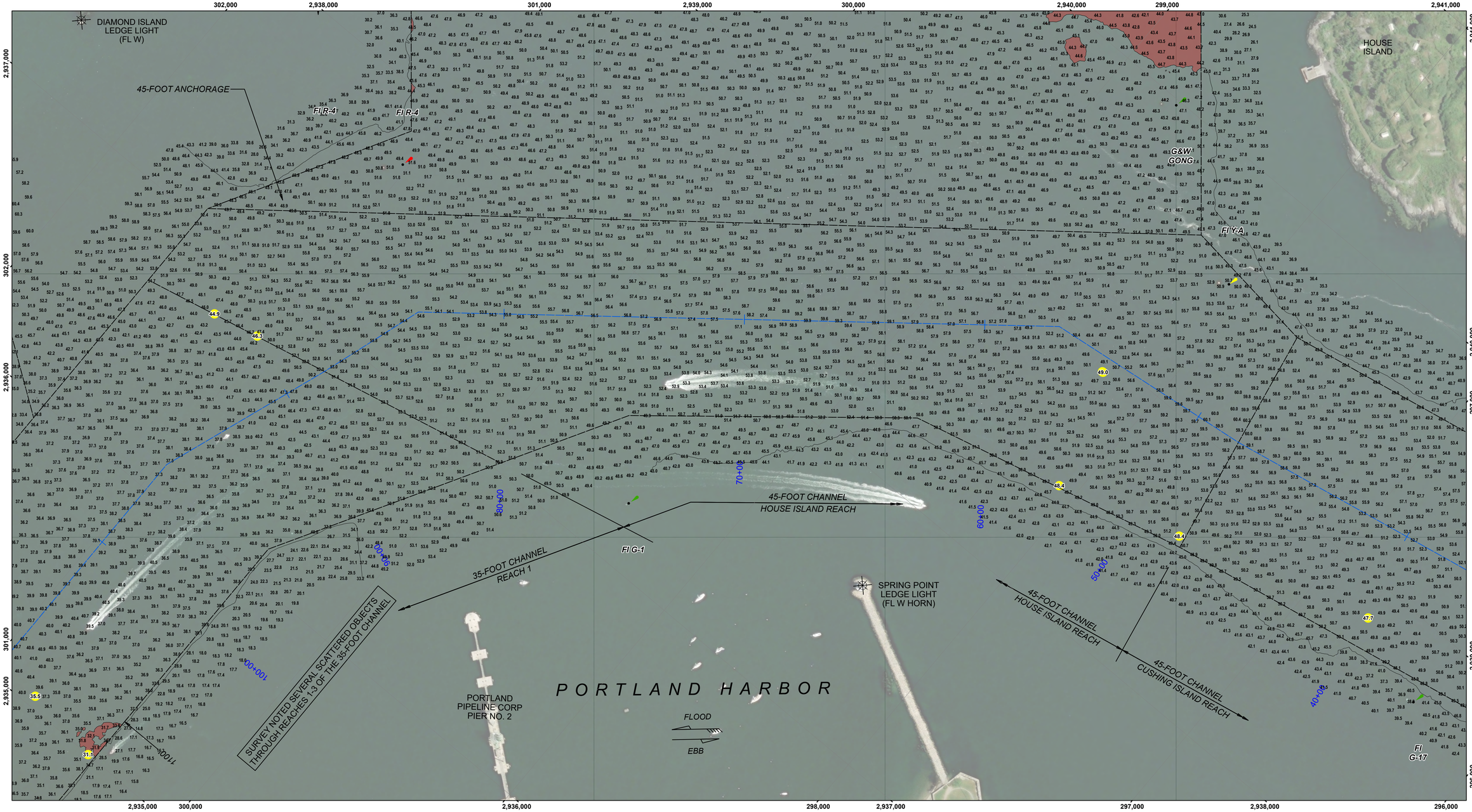
SUBMITTED BY: Barrett Morse
APPROVED BY: NAE Survey
SURVEYED BY: MJD
CHECKED BY: WHW
ISSUE DATE: 4/26/2024
SIZE: ANSI D
MAP DOCUMENT: ME_57_POR_20240314_XC_010

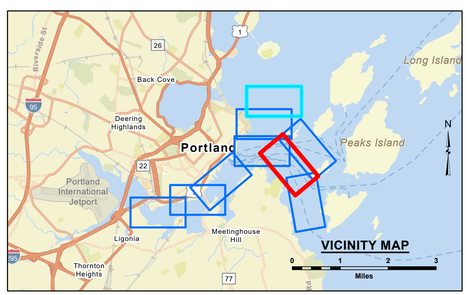
PORTLAND HARBOR
PORTLAND, MAINE
CONDITION SURVEY
35 & 45-Foot Channels
35-Foot Turning Basins
30 & 45-Foot Anchorages
File Name: ME_57_POR_20240314_XC_010

SHEET IDENTIFICATION
Portland Harbor

Sheet 1 of 9

Revison Number: 5.23.12.3-5.23.12.3





LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable/pipeline area
- Pipes (Gas/Sewer)
- Contour Line
- 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: Maine West, ME-1802 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: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 40'
Field Books: R&H 4981
Survey No.: ME_57_POW_20240314_XC_010
Reference NOAA Chart No.: US5PWMDC, US5PWMCC

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Project Remarks

Combined survey dataset. Sounding coverage for the North and South 30-Foot Anchorages collected in January of 2024.

Water Level Information

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NEW ENGLAND DISTRICT

SUBMITTED BY: Barrett Morse
APPROVED BY: NAE Survey
SURVEYED BY: MJD
CHECKED BY: WHW
ISSUE DATE: 4/26/2024
SIZE: ANSI D
MAP DOCUMENT: ME_57_POR_20240314_XC_010

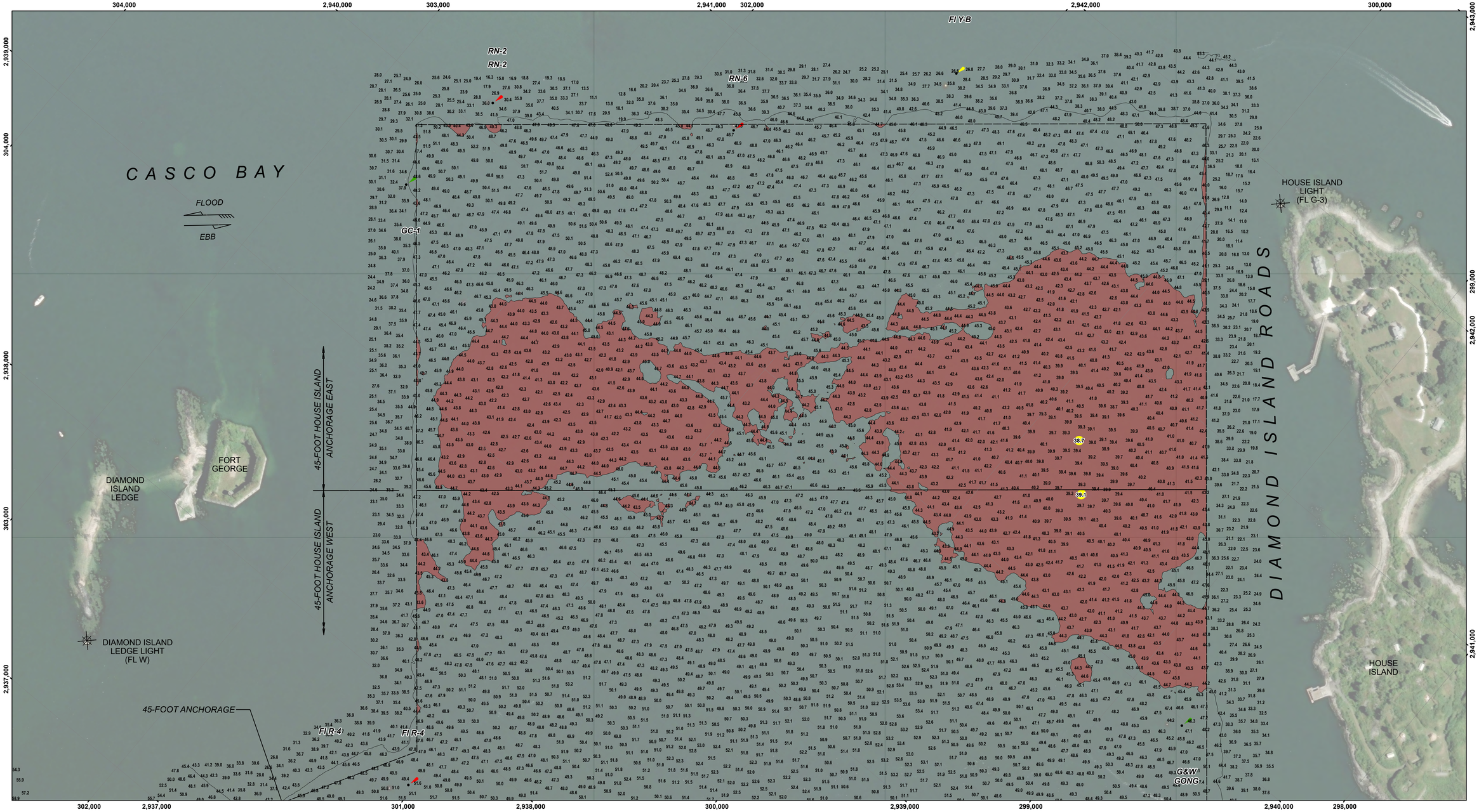
PORTLAND HARBOR
PORTLAND, MAINE
CONDITION SURVEY
35 & 45-Foot Channels
35-Foot Turning Basins
30 & 45-Foot Anchorages

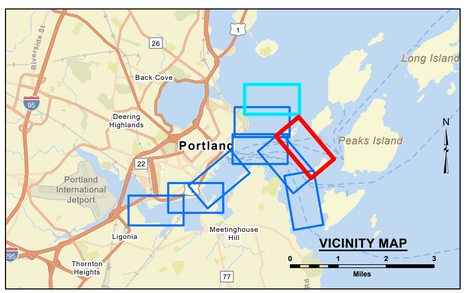
File Name: **ME_57_POR_20240314_XC_010**

SHEET IDENTIFICATION
Portland Harbor

Sheet 2 of 9

Revison Number: 5.23.12.3-5.23.12.3





LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable/pipeline area
- Pipes (Gas/Sewer)
- Contour Line
- 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: Maine West, ME-1802 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: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 40'
Field Books: R&H 4981
Survey No.: ME_57_POW_20240314_XC_010
Reference NOAA Chart No.: US5PWMDC, US5PWMCC

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Project Remarks

Combined survey dataset. Sounding coverage for the North and South 30-Foot Anchorages collected in January of 2024.

Water Level Information

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

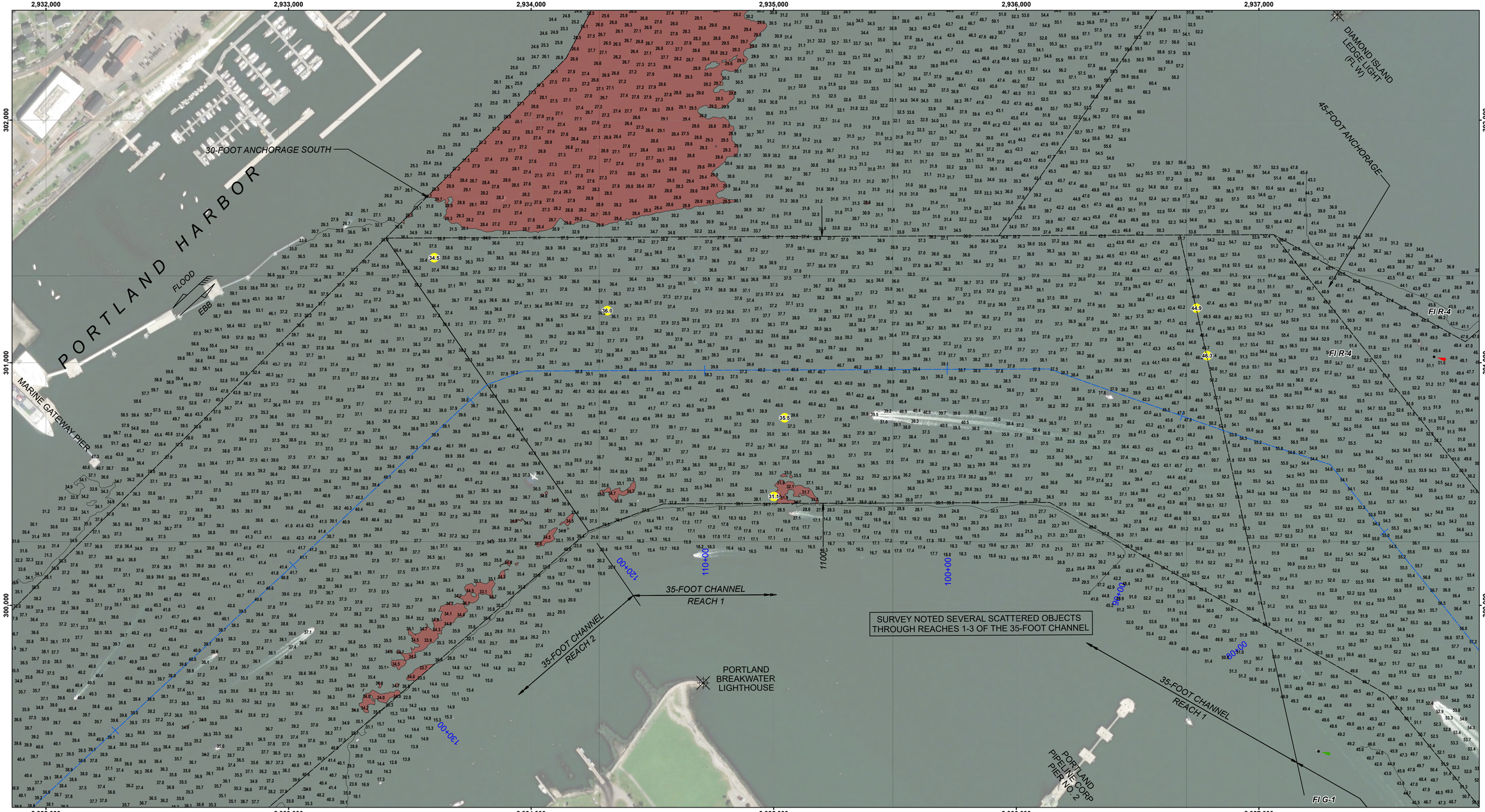
SUBMITTED BY: Barrett Morse
APPROVED BY: NAE Survey
SURVEYED BY: MJD
CHECKED BY: WHW
ISSUE DATE: 4/26/2024
SIZE: ANSI D
MAP DOCUMENT: ME_57_POR_20240314_XC_010

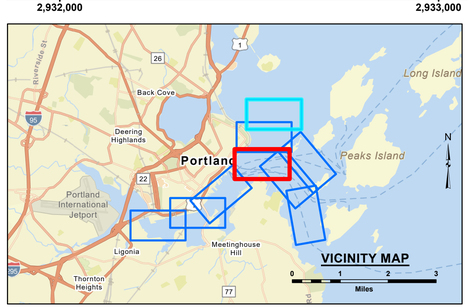
PORTLAND HARBOR
PORTLAND, MAINE
CONDITION SURVEY
35 & 45-Foot Channels
35-Foot Turning Basins
30 & 45-Foot Anchorages
File Name: ME_57_POR_20240314_XC_010

SHEET IDENTIFICATION
Portland Harbor

Sheet 3 of 9

Revison Number: 5.23.12.3-5.23.12.3





LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable/pipeline area
- Pipes (Gas/Sewer)
- Contour Line
- 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: Maine West, ME-1802 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: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 40'
Field Books: R&H 4981
Survey No.: ME_57_POW_20240314_XC_010
Reference NOAA Chart No.: US5PWMDC, US5PWMCC

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Project Remarks

Combined survey dataset. Sounding coverage for the North and South 30-Foot Anchorages collected in January of 2024.

Water Level Information

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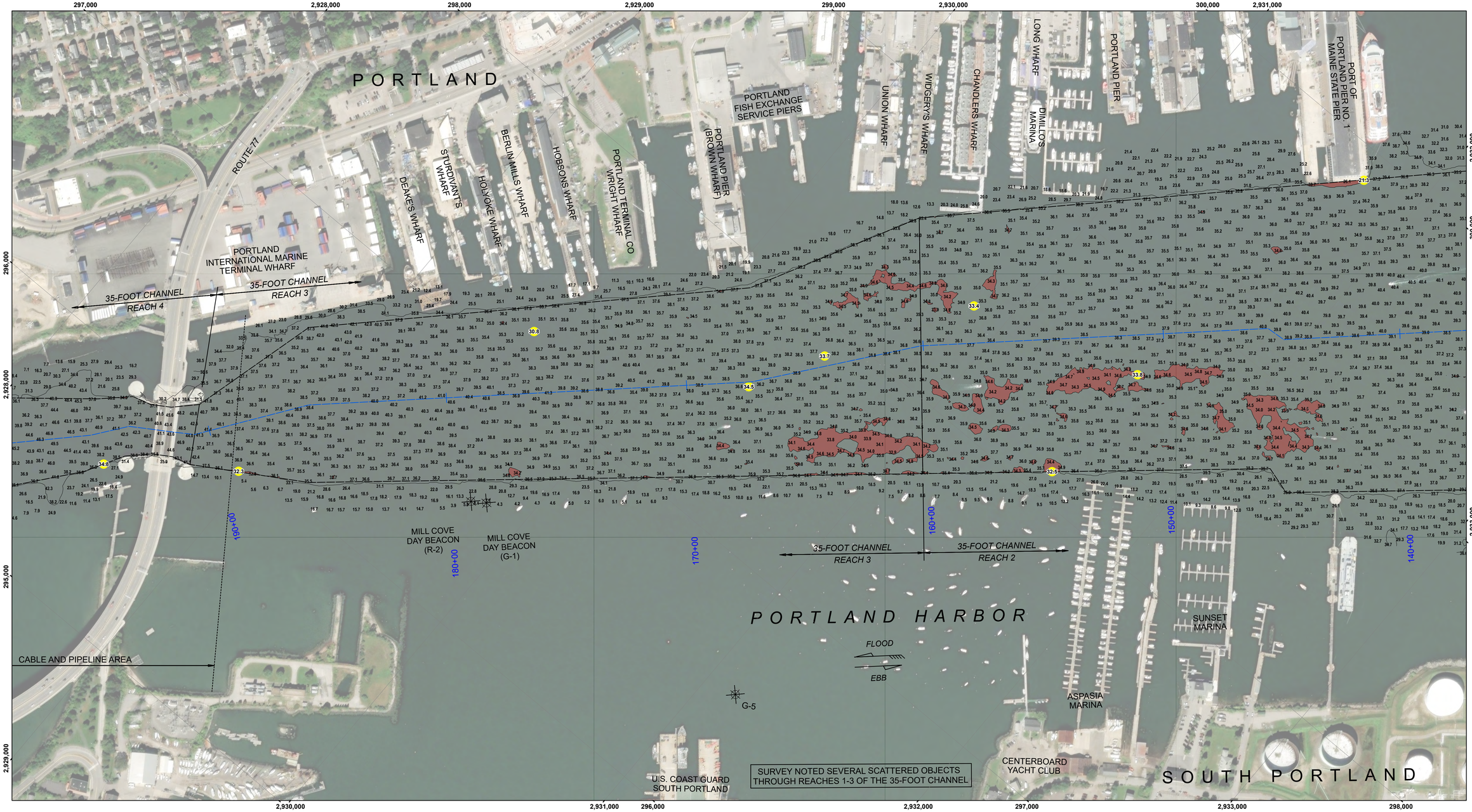
SURVEYED BY: MJD
CHECKED BY: WHW
SUBMITTED BY: Barrett Morse
APPROVED BY: NAE Survey
ISSUE DATE: 4/26/2024
SIZE: ANSI D
MAP DOCUMENT: ME_57_POR_20240314_XC_010

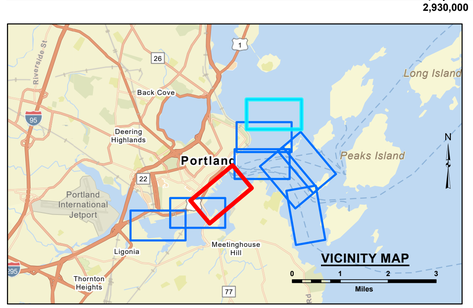
PORTLAND HARBOR
PORTLAND, MAINE
CONDITION SURVEY
35 & 45-Foot Channels
35-Foot Turning Basins
30 & 45-Foot Anchorages
File Name: **ME_57_POR_20240314_XC_010**

SHEET IDENTIFICATION
Portland Harbor

Sheet 4 of 9

Revison Number: 5.23.12.3-5.23.12.3





LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable/pipeline area
- Pipes (Gas/Sewer)
- Contour Line
- 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: Maine West, ME-1802 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: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 40'
Field Books: R&H 4981
Survey No.: ME_57_POW_20240314_XC_010
Reference NOAA Chart No.: US5PWMDC, US5PWMCC

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Project Remarks

Combined survey dataset. Sounding coverage for the North and South 30-Foot Anchorages collected in January of 2024.

Water Level Information

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District: CENAE

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NEW ENGLAND DISTRICT

SURVEYED BY: MJD
CHECKED BY: WHW
SUBMITTED BY: Barrett Morse
APPROVED BY: NAE Survey
ISSUE DATE: 4/26/2024
SIZE: ANSI D
MAP DOCUMENT: ME_57_POR_20240314_XC_010

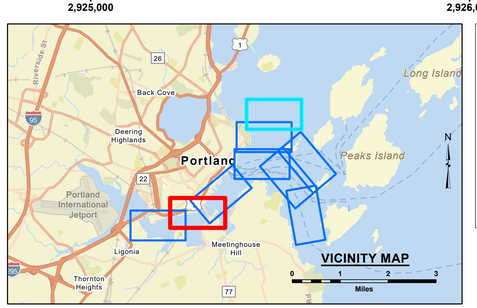
PORTLAND HARBOR
PORTLAND, MAINE
CONDITION SURVEY
35 & 45-Foot Channels
35-Foot Turning Basins
30 & 45-Foot Anchorages
File Name: **ME_57_POR_20240314_XC_010**

SHEET IDENTIFICATION
Portland Harbor

Sheet 5 of 9

Revison Number: 5.23.12.3-5.23.12.3





LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable/pipeline area
- Pipes (Gas/Sewer)
- Contour Line
- Fixed Navigation Aids
- Red Navigation Buoy
- Green Navigation Buoy
- Yellow Navigation Buoy
- Shoaling Area
- Shoalest Sounding**

** Shoalest Sounding per Quarter per Reach

GRAPHIC SCALE

1" = 200'

200 0 200 400 Feet

N W E S

Notes:

Horizontal Datum: Maine West, ME-1802 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: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 40'
Field Books: R&H 4981
Survey No.: ME_57_POW_20240314_XC_010
Reference NOAA Chart No.: US5PWMDC, US5PWMCC

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Project Remarks

Combined survey dataset. Sounding coverage for the North and South 30-Foot Anchorages collected in January of 2024.

Water Level Information

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US Army Corps of Engineers
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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

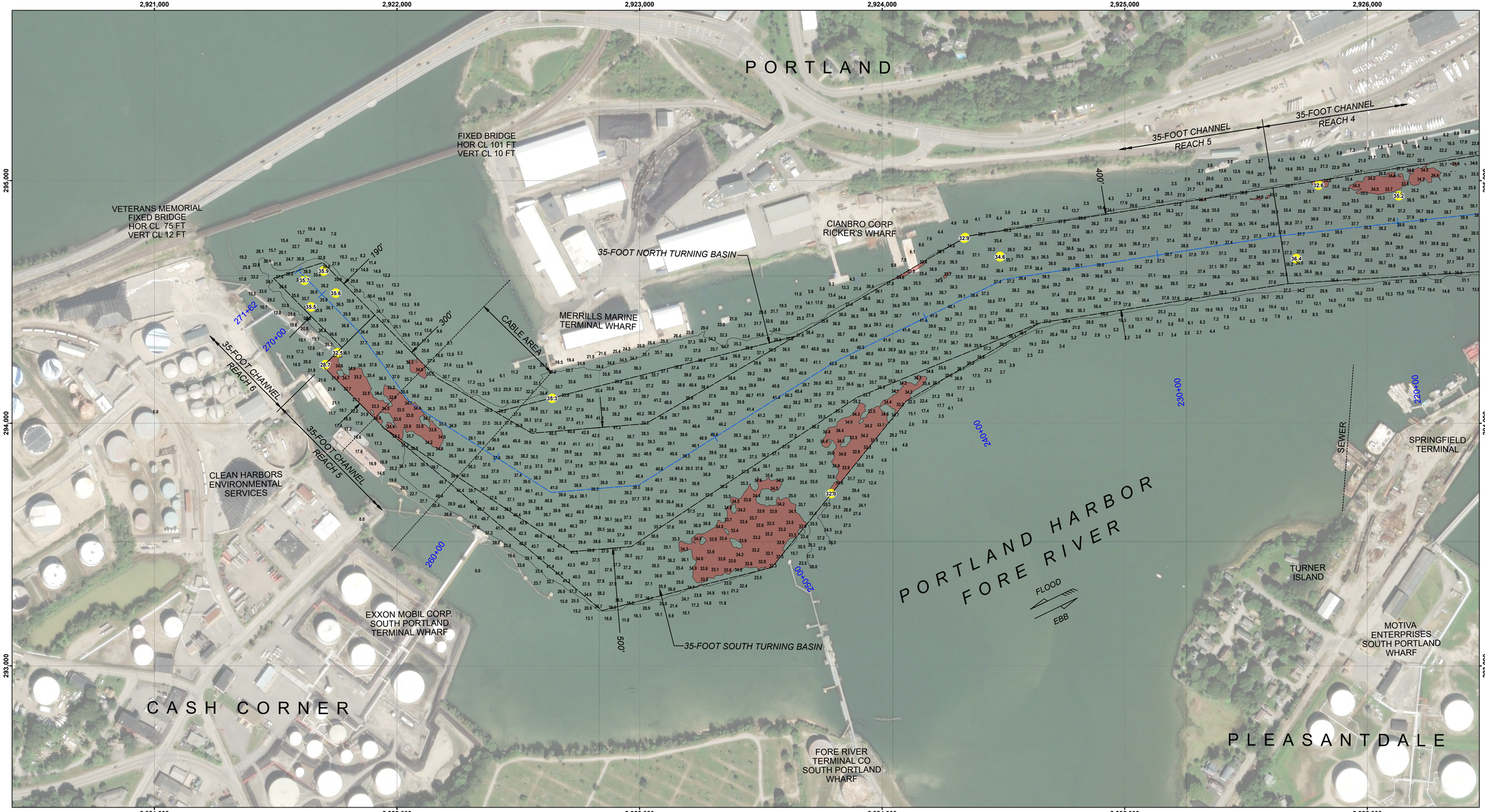
SUBMITTED BY: Barrett Morse
APPROVED BY: NAE Survey
SURVEYED BY: MJD
CHECKED BY: WHW
ISSUE DATE: 4/26/2024
SIZE: ANSI D
MAP DOCUMENT: ME_57_POR_20240314_XC_010

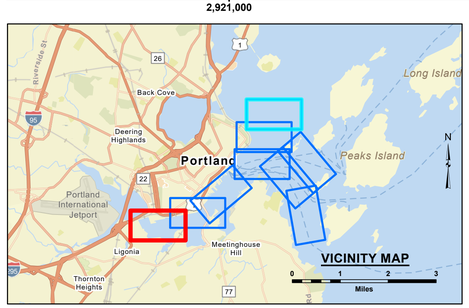
PORTLAND HARBOR
PORTLAND, MAINE
CONDITION SURVEY
35 & 45-Foot Channels
35-Foot Turning Basins
30 & 45-Foot Anchorages
File Name: **ME_57_POR_20240314_XC_010**

SHEET IDENTIFICATION
Portland Harbor

Sheet 6 of 9

Revison Number: 5.23.12.3-5.23.12.3





LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable/pipeline area
- Pipes (Gas/Sewer)
- Contour Line
- 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: Maine West, ME-1802 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: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 40'
Field Books: R&H 4981
Survey No.: ME_57_POW_20240314_XC_010
Reference NOAA Chart No.: US5PWMDC, US5PWMCC

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

Combined survey dataset. Sounding coverage for the North and South 30-Foot Anchorages collected in January of 2024.

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 corrections for this project were obtained using NOAAs V-Datum Program. The V-Datum corrections range 5.07 feet to 5.27 feet, and are referenced from V-Datum Model Version 4.1, ME/NH/MA region Version 2.3. NAVD88 is above MLLW. Therefore, the correction should be added to NAVD88 to convert to MLLW. Mean Range of Tide is 9.12 feet. No tide gauges were used on this project.

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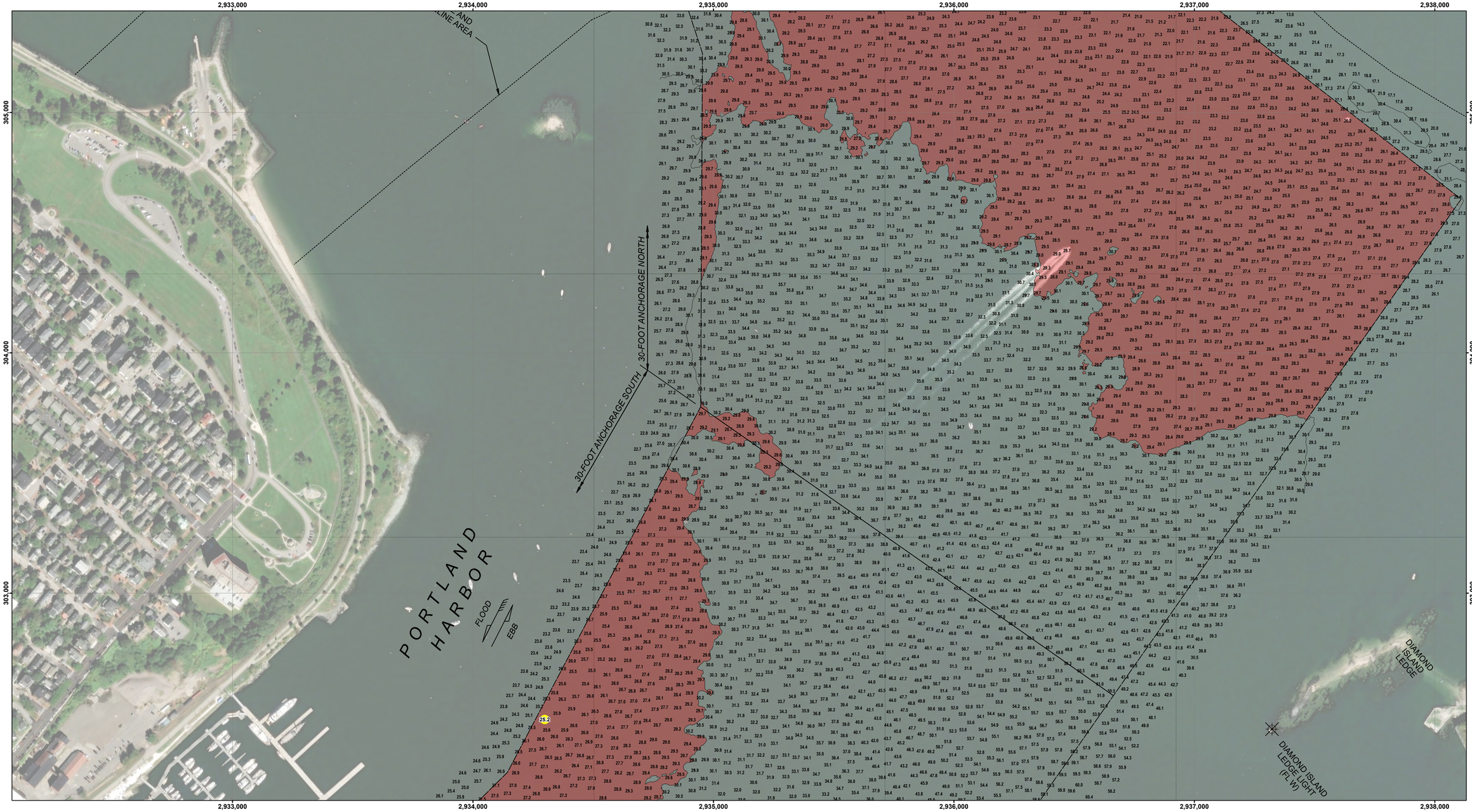
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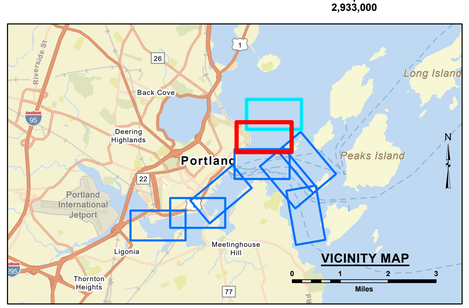
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SHEET IDENTIFICATION
Portland Harbor

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Revison Number: 5.23.12.3-5.23.12.3





LEGEND

- Federal Navigation Channel
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** Shoalest Sounding per Quarter per Reach

GRAPHIC SCALE

200 0 200 400

1" = 200' Feet

N W E S

Notes:

Horizontal Datum:Maine West, ME-1802 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: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 40'
Field Books: R&H 4981
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US Army Corps of Engineers
District: CENAE

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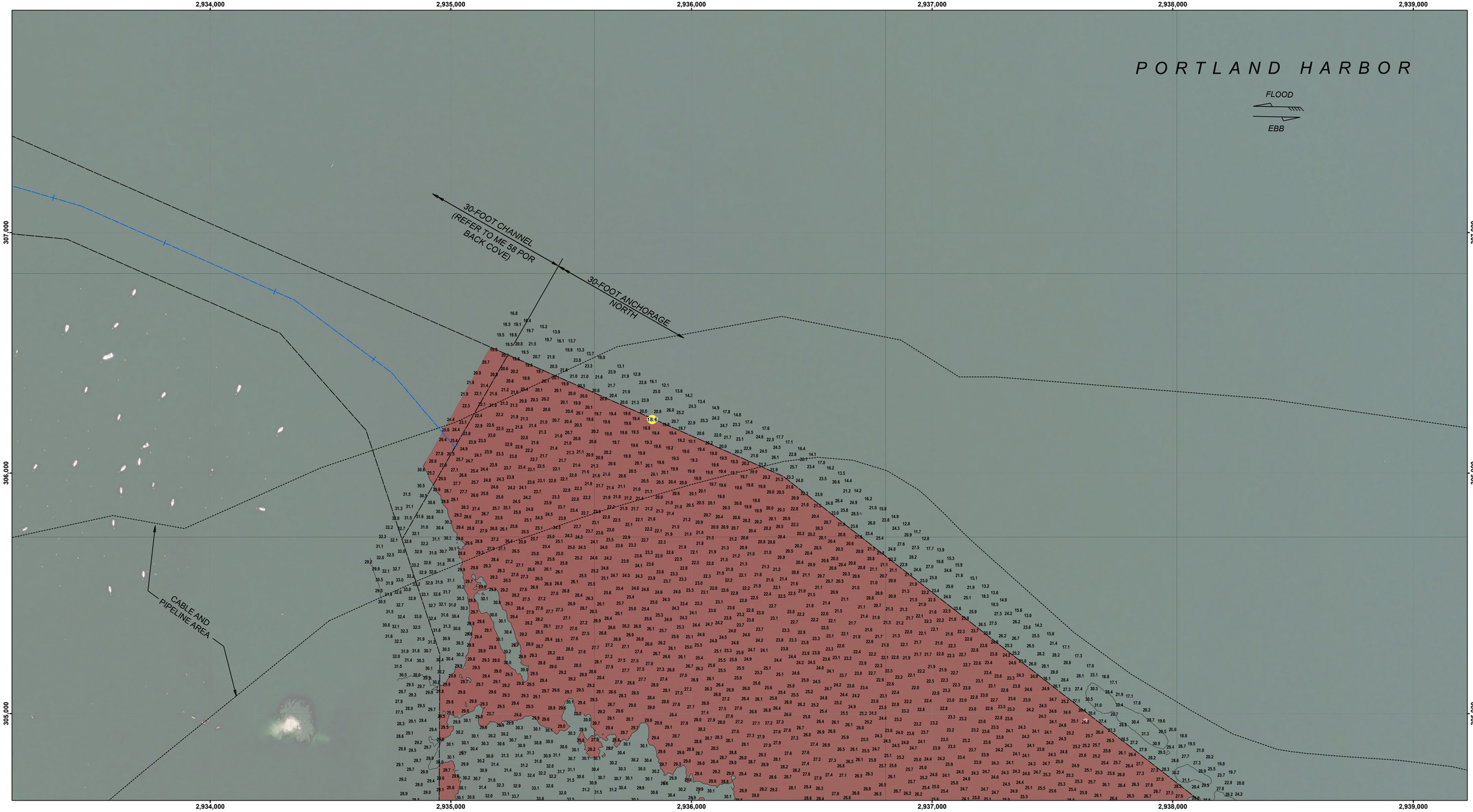
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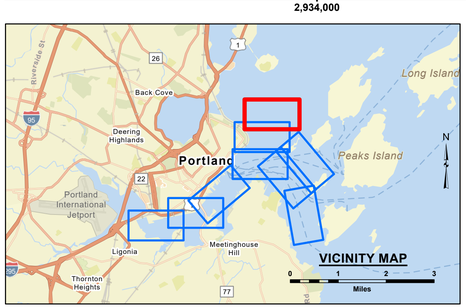
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US Army Corps of Engineers
District: CENAE

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