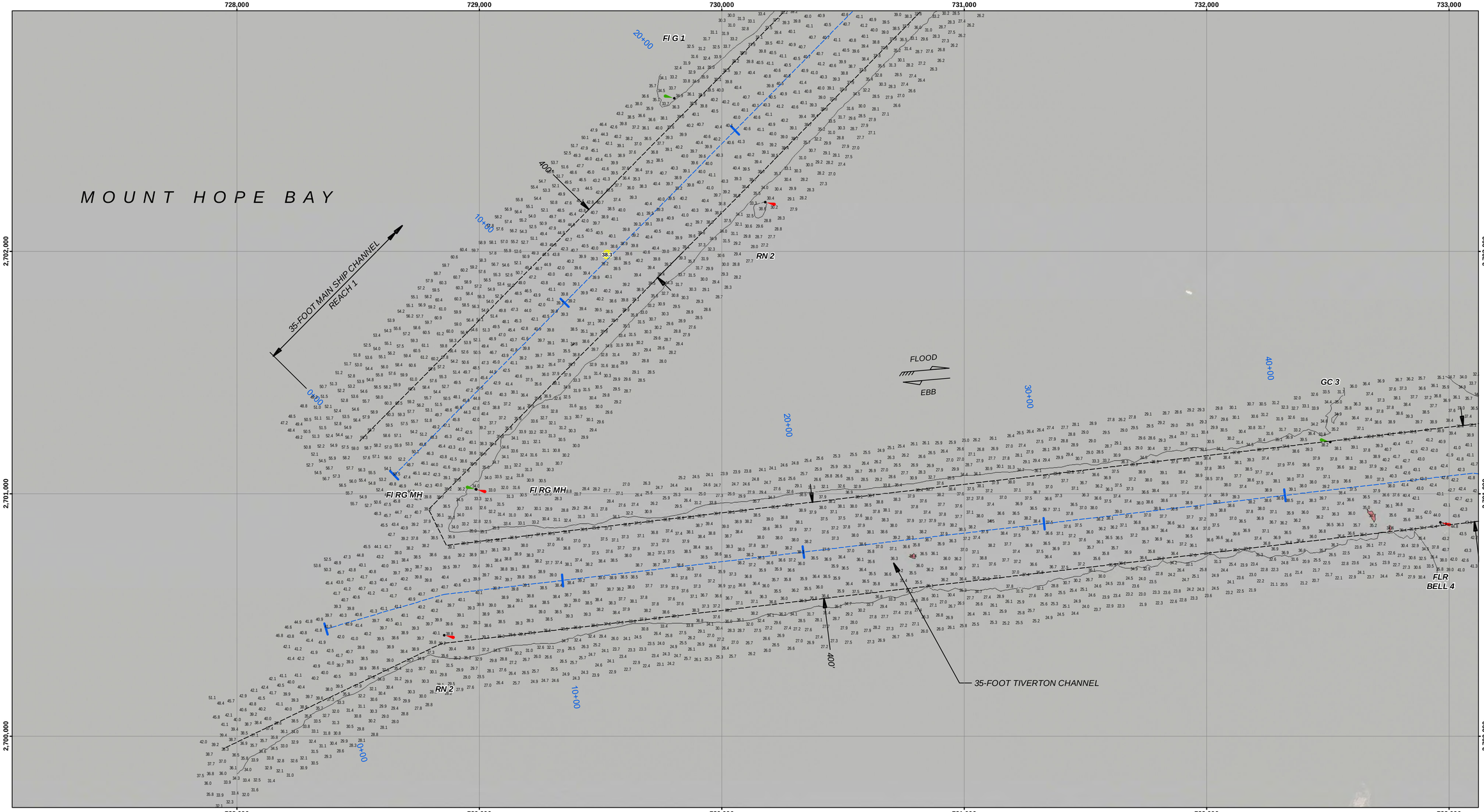

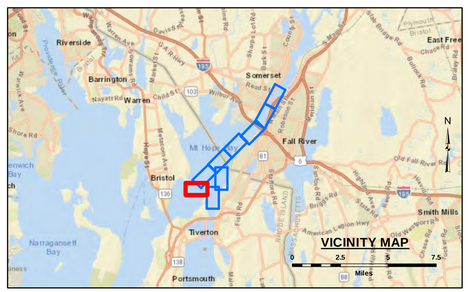

LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable Submarine
- 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

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: KEEGAN
Sonar System: Reson 7125 (Multibeam Sonar)
Sounding Frequency: 400 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 4566
Survey No.: FLR_CS_2019_012
Reference NOAA Chart No.: 13229

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

None

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 corrections for this project range from 2.33 feet to 2.61 feet. These corrections are referenced from NOAA's V-Datum Model Version 3.9, ME/NH/MA region Version 1.3, in the vicinity of Fall River Harbor, Massachusetts. 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

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: P1B
CHECKED BY: WHW
ISSUE DATE: 3/28/2019

SUBMITTED BY: William Walker
APPROVED BY: NAE Survey

MAP DOCUMENT: MA_62_FLR.mxd

SIZE: ANSI D

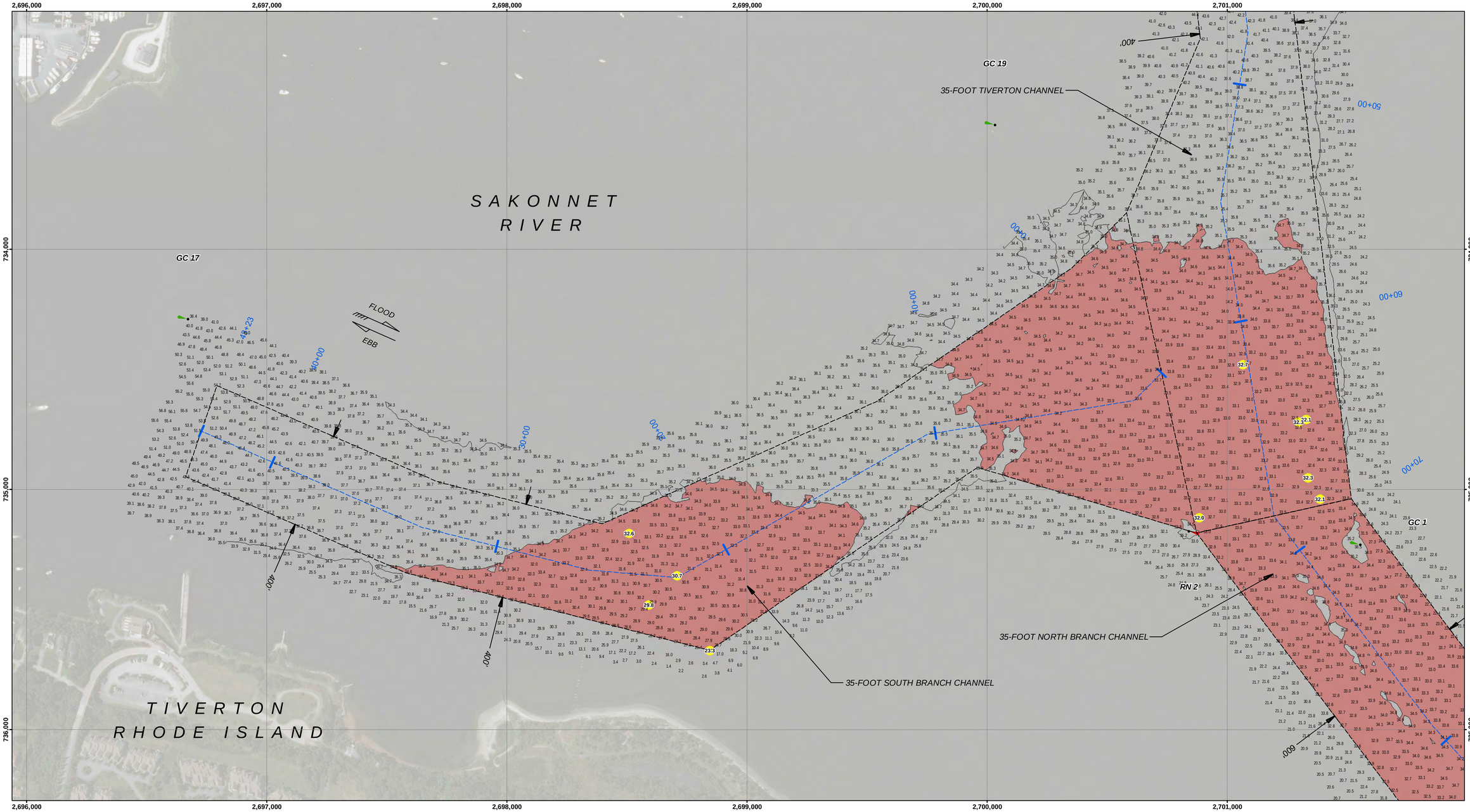
FALL RIVER HARBOR
RHODE ISLAND AND MASSACHUSETTS
CONDITION SURVEY
35-FOOT CHANNELS AND TURNING BASIN
30-FOOT CHANNELS AND
25-FOOT ANCHORAGE

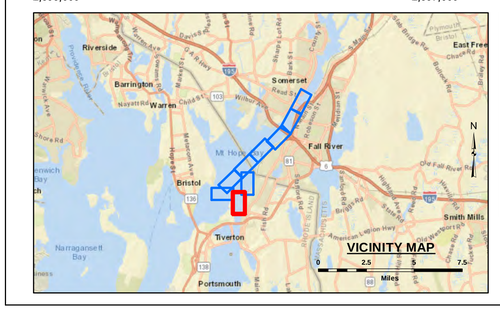
File Name: MA_62_FLR_20190125_CS_2019_012

SHEET IDENTIFICATION
Fall River Harbor

Sheet 1 of 9

Revison Number: 3.162-20180601





LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable Submarine
- 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

1" = 200'

200 0 200 400 Feet

W S N E

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 7125 (Multibeam Sonar)
Sounding Frequency: 400 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 4566
Survey No.: FLR_CS_2019_012
Reference NOAA Chart No.: 13229

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

None

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 corrections for this project range from 2.33 feet to 2.61 feet. These corrections are referenced from NOAA's V-Datum Model Version 3.9, ME/NH/MA region Version 1.3, in the vicinity of Fall River Harbor, Massachusetts. 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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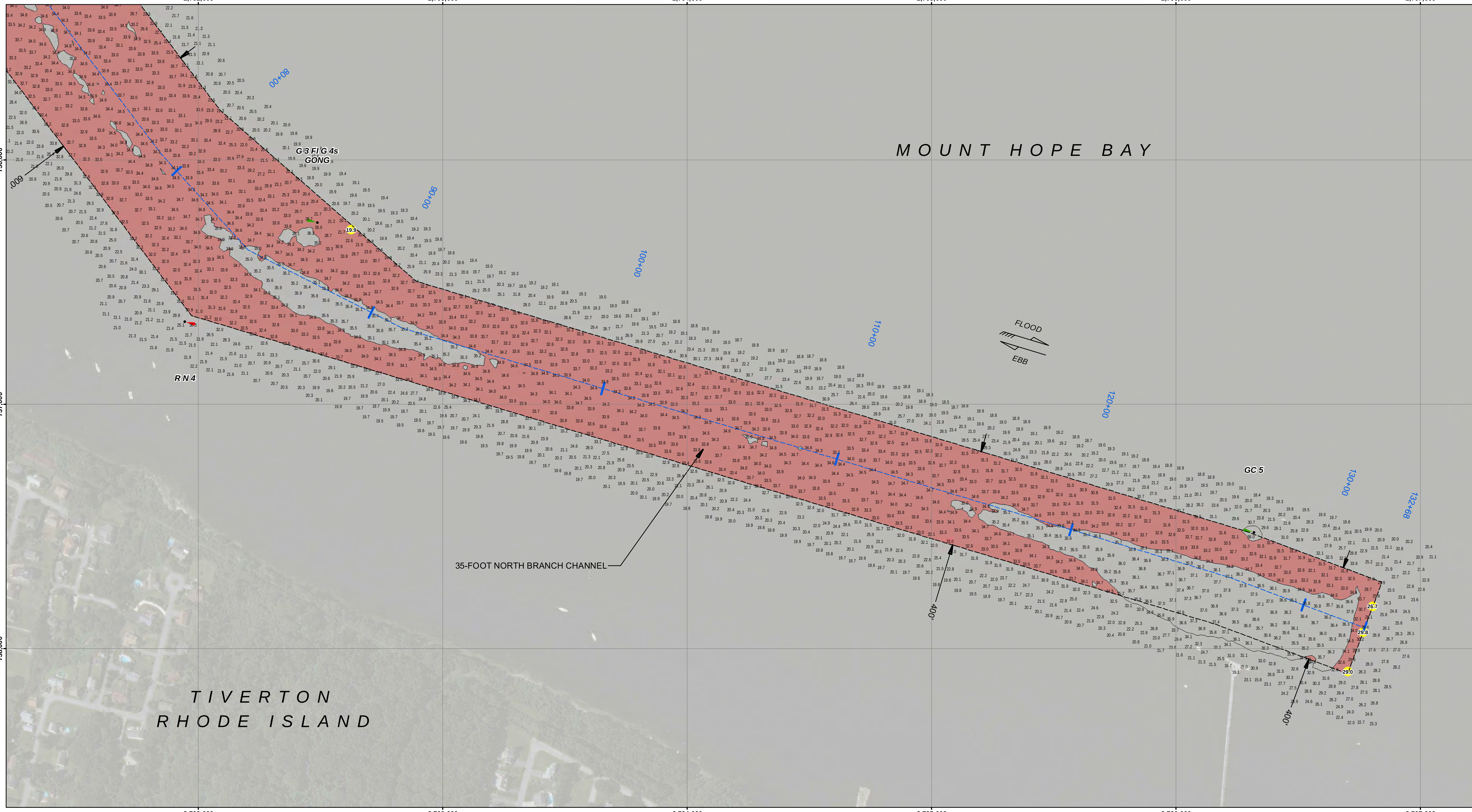
SURVEYED BY: P1B
CHECKED BY: WHW
ISSUE DATE: 3/28/2019
SUBMITTED BY: William Walker
APPROVED BY: NAE Survey
MAP DOCUMENT: MA_62_FLR.mxd
SIZE: ANSI D

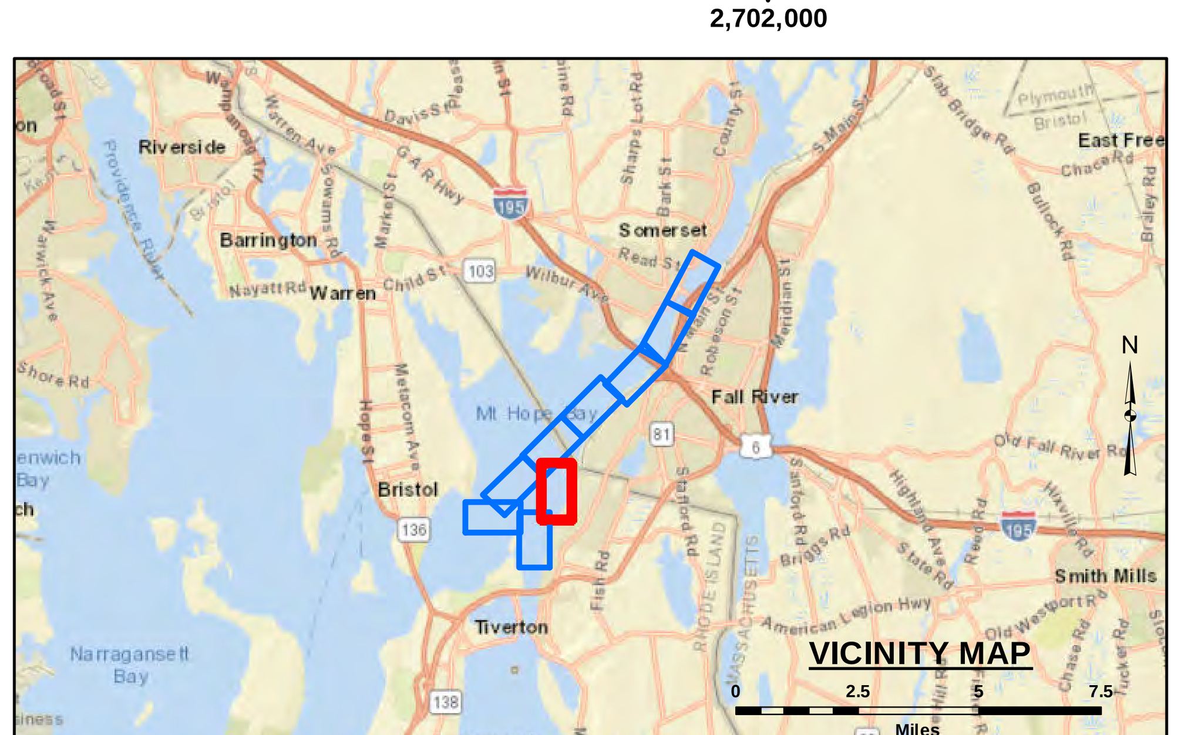
FALL RIVER HARBOR
RHODE ISLAND AND MASSACHUSETTS
CONDITION SURVEY
35-FOOT CHANNELS AND TURNING BASIN
30-FOOT CHANNELS AND
25-FOOT ANCHORAGE
File Name: MA_62_FLR_20190125_CS_2019_012

SHEET IDENTIFICATION
Fall River Harbor

Sheet 2 of 9

Revison Number: 3.162-20180601





LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable Submarine
- 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

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: KEEGAN
Sonar System: Reson 7125 (Multibeam Sonar)
Sounding Frequency: 400 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 4566
Survey No.: FLR_CS_2019_012
Reference NOAA Chart No.: 13229

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

None

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 corrections for this project range from 2.33 feet to 2.61 feet. These corrections are referenced from NOAA's V-Datum Model Version 3.9, ME/NH/MA region Version 1.3, in the vicinity of Fall River Harbor, Massachusetts. 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

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

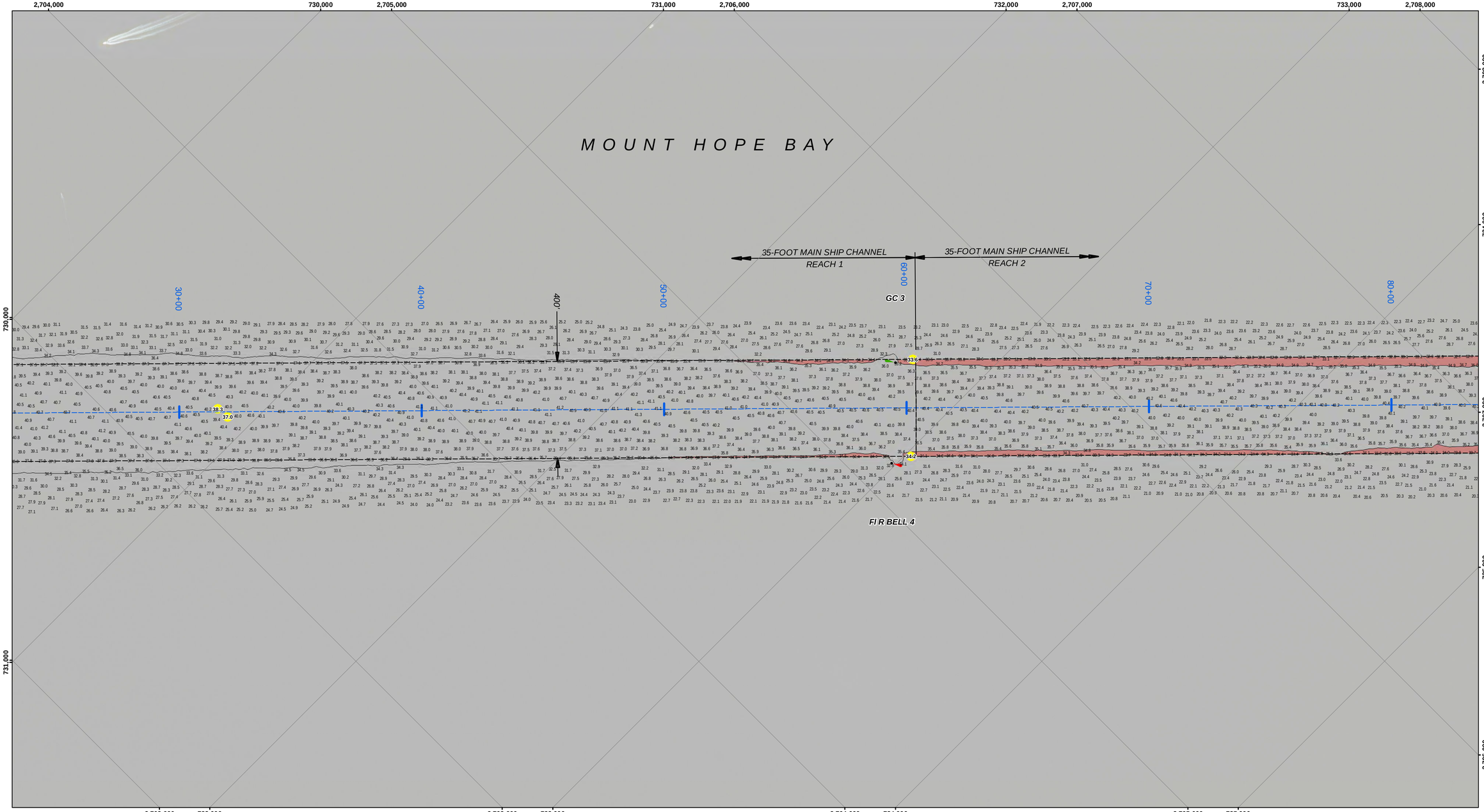
SUBMITTED BY: William Walker
APPROVED BY: NAE Survey
SURVEYED BY: PJB
CHECKED BY: WHW
ISSUE DATE: 3/28/2019
SIZE: ANSI D
MAP DOCUMENT: MA_62_FLR.mxd

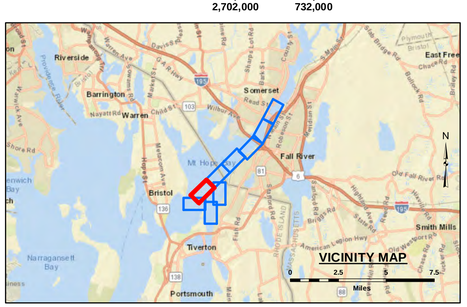
FALL RIVER HARBOR
RHODE ISLAND AND MASSACHUSETTS
CONDITION SURVEY
35-FOOT CHANNELS AND TURNING BASIN 30-FOOT CHANNELS AND 25-FOOT ANCHORAGE

File Name: MA_62_FLR_20190125_CS_2019_012

SHEET IDENTIFICATION
Fall River Harbor

Revison Number: 3.162-20180601





LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable Submarine
- 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

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: KEEGAN
Sonar System: Reson 7125 (Multibeam Sonar)
Sounding Frequency: 400 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 4566
Survey No.: FLR_CS_2019_012
Reference NOAA Chart No.: 13229

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

None

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 corrections for this project range from 2.33 feet to 2.61 feet. These corrections are referenced from NOAA's V-Datum Model Version 3.9, ME/NH/MA region Version 1.3, in the vicinity of Fall River Harbor, Massachusetts. 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

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: P1B
CHECKED BY: WHW
ISSUE DATE: 3/28/2019

SUBMITTED BY: William Walker
APPROVED BY: NAE Survey

SIZE: ANSI D

MAP DOCUMENT: MA_62_FLR.mxd

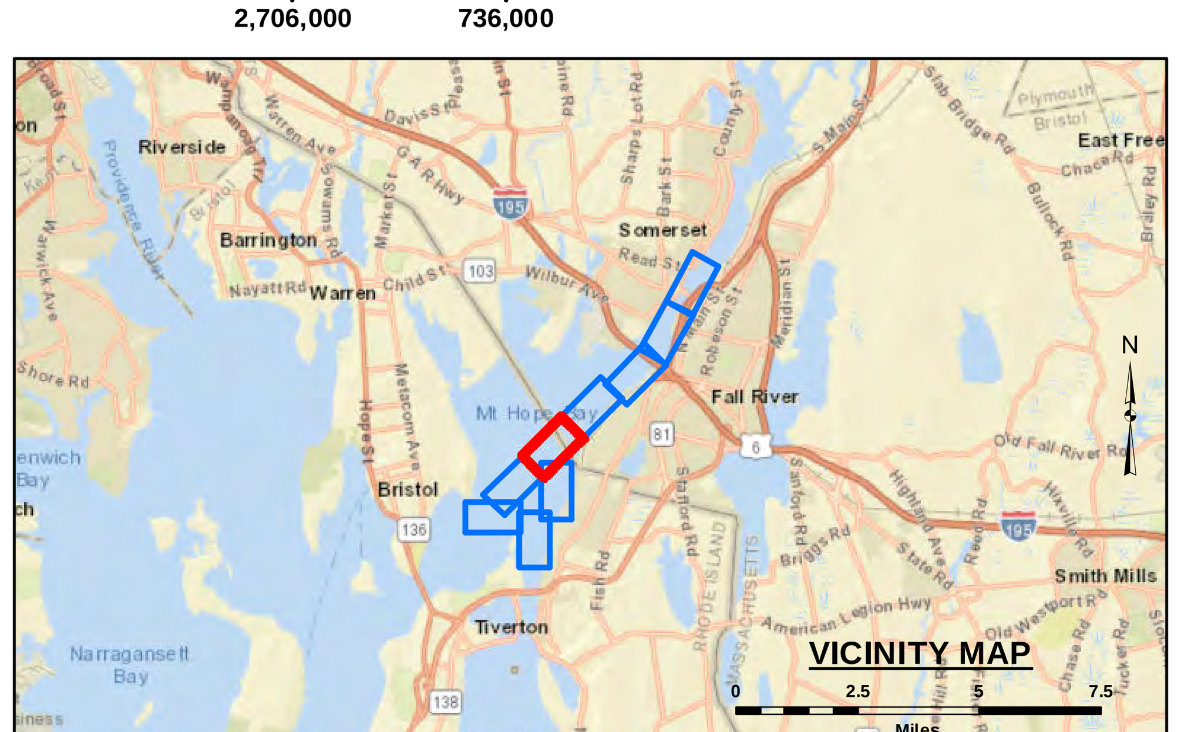
FALL RIVER HARBOR
RHODE ISLAND AND MASSACHUSETTS
CONDITION SURVEY
35-FOOT CHANNELS AND TURNING BASIN
30-FOOT CHANNELS AND
25-FOOT ANCHORAGE

File Name: MA_62_FLR_20190125_CS_2019_012

SHEET IDENTIFICATION
Fall River Harbor

Sheet 4 of 9

Revison Number: 3.162-20180601



LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable Submarine
- 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

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: KEEGAN
Sonar System: Reson 7125 (Multibeam Sonar)
Sounding Frequency: 400 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 4566
Survey No.: FLR_CS_2019_012
Reference NOAA Chart No.: 13229

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General Notes

The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during January 2019. 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. Orthoimagery 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

Project Remarks

None

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 corrections for this project range from 2.33 feet to 2.61 feet. These corrections are referenced from NOAA's V-Datum Model Version 3.9, ME/NH/MA region Version 1.3, in the vicinity of Fall River Harbor, Massachusetts. 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

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: PJB
CHECKED BY: WHW
ISSUE DATE: 3/28/2019
SUBMITTED BY: William Walker
APPROVED BY: NAE Survey
MAP DOCUMENT: MA_62_FLR.mxd
SIZE: ANSI D

FALL RIVER HARBOR RHODE ISLAND AND MASSACHUSETTS CONDITION SURVEY

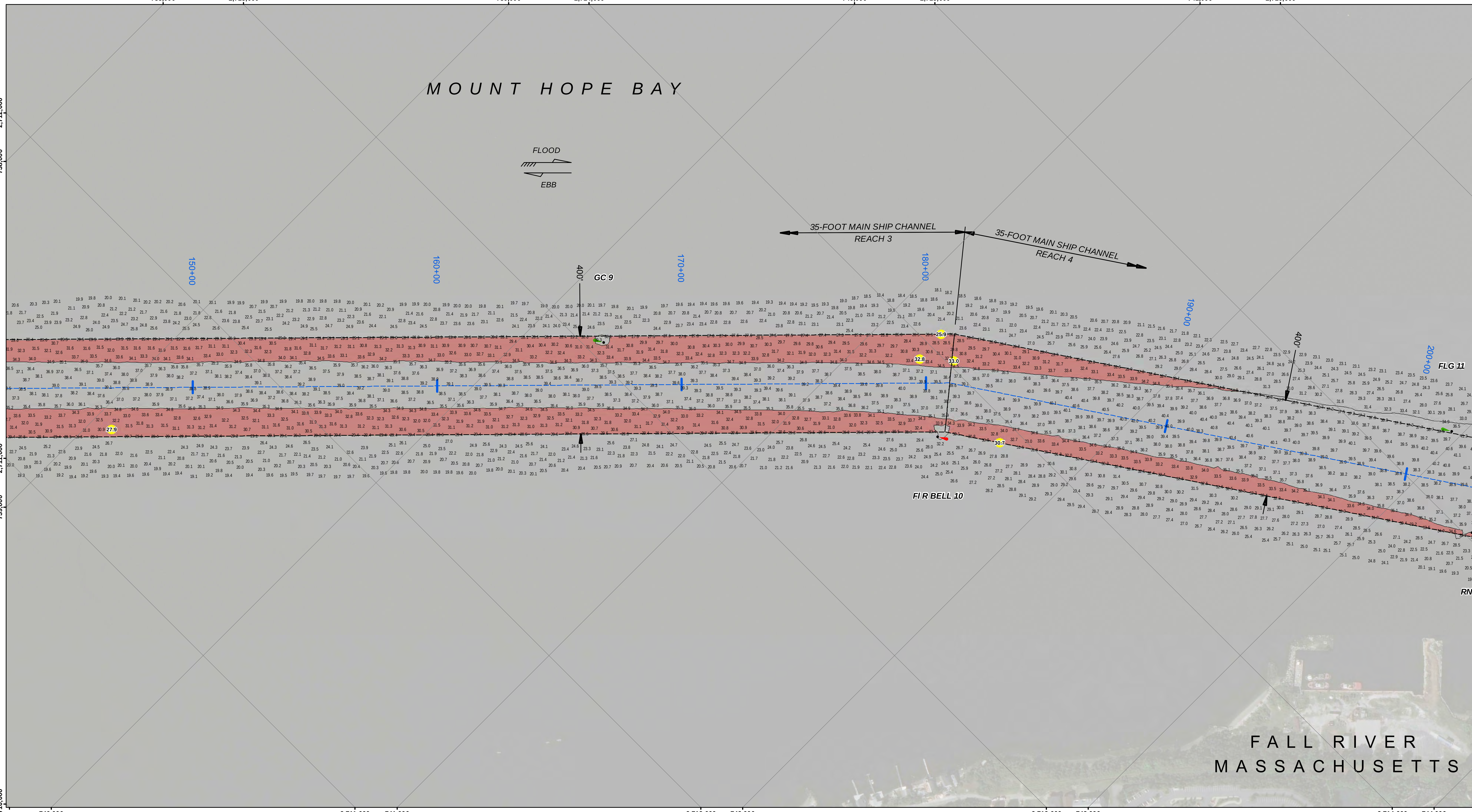
35-FOOT CHANNELS AND TURNING BASIN 30-FOOT CHANNELS AND 25-FOOT ANCHORAGE

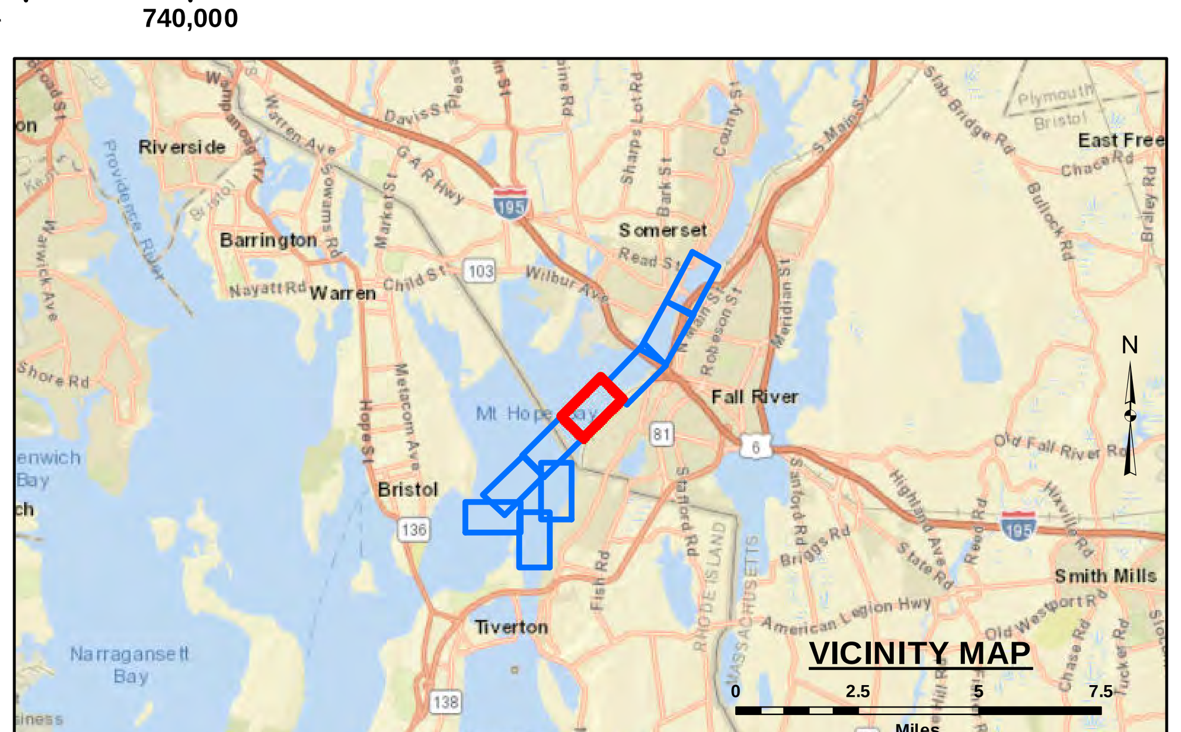
File Name: MA_62_FLR_20190125_CS_2019_012

SHEET IDENTIFICATION
Fall River Harbor

Sheet 5 of 9

Revison Number: 3.162-20180601





LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable Submarine
- 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

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: KEEGAN
Sonar System: Reson 7125 (Multibeam Sonar)
Sounding Frequency: 400 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 4566
Survey No.: FLR_CS_2019_012
Reference NOAA Chart No.: 13229

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

None

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 corrections for this project range from 2.33 feet to 2.61 feet. These corrections are referenced from NOAA's V-Datum Model Version 3.9, ME/NH/MA region Version 1.3, in the vicinity of Fall River Harbor, Massachusetts. 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

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

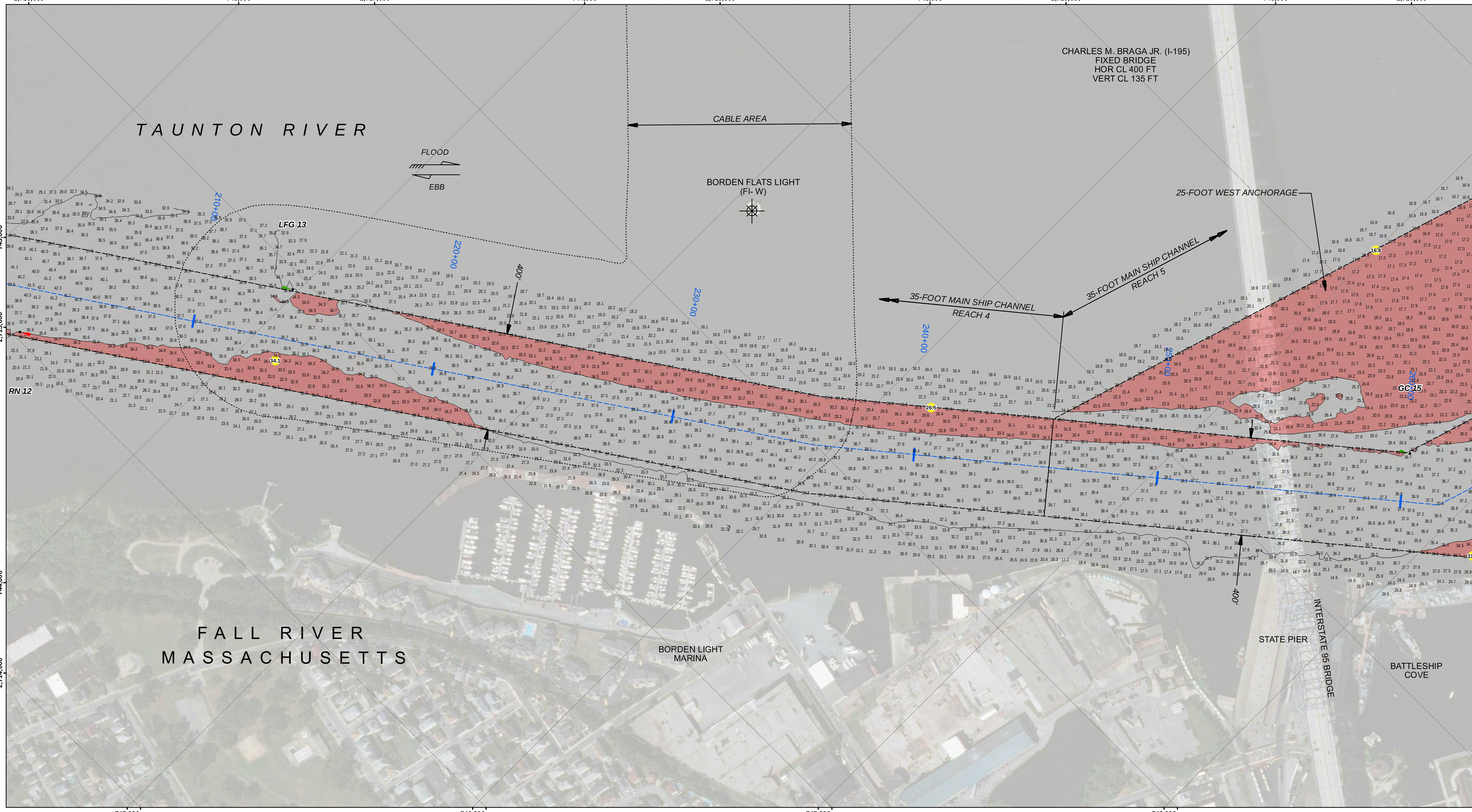
SURVEYED BY: PJB
CHECKED BY: WHW
ISSUE DATE: 3/28/2019
SUBMITTED BY: William Walker
APPROVED BY: NAE Survey
MAP DOCUMENT: MA_62_FLR.mxd
SIZE: ANSI D

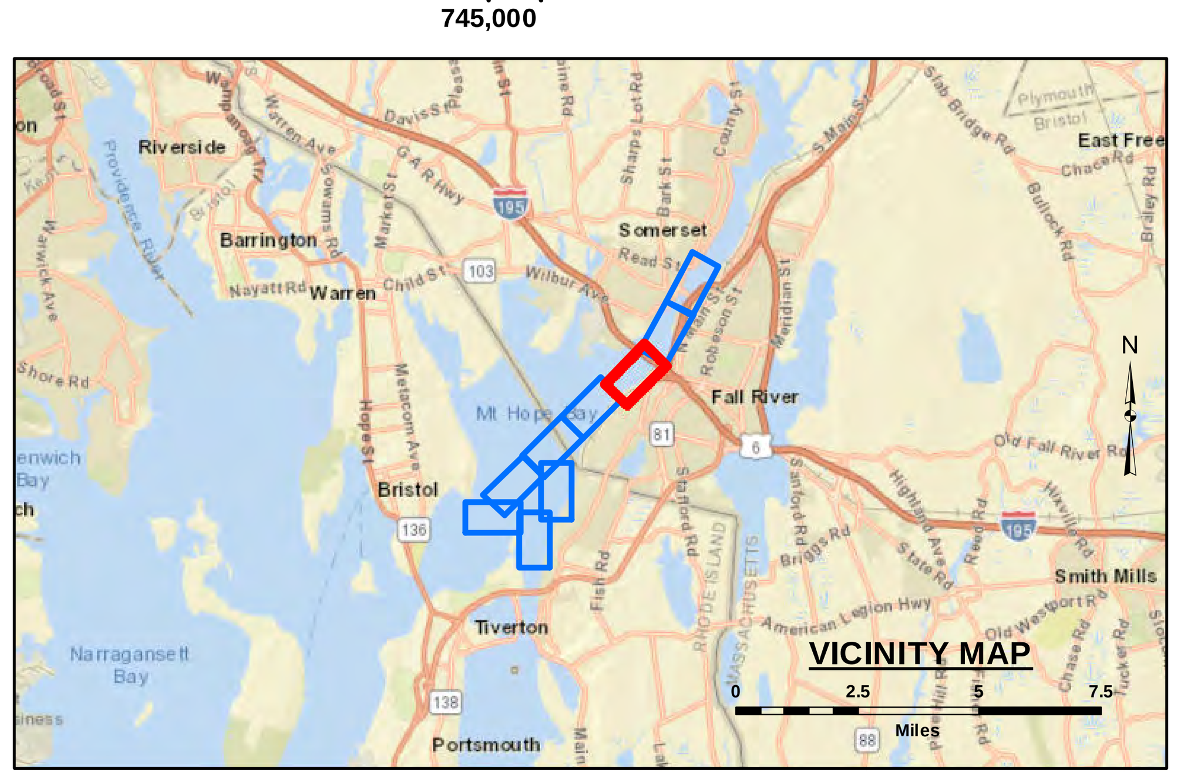
FALL RIVER HARBOR
RHODE ISLAND AND MASSACHUSETTS
CONDITION SURVEY
35-FOOT CHANNELS AND TURNING BASIN 30-FOOT CHANNELS AND 25-FOOT ANCHORAGE

File Name: MA_62_FLR_20190125_CS_2019_012

SHEET IDENTIFICATION
Fall River Harbor

Revison Number: 3.162-20180601





LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable Submarine
- 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

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: KEEGAN
Sonar System: Reson 7125 (Multibeam Sonar)
Sounding Frequency: 400 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 4566
Survey No.: FLR_CS_2019_012
Reference NOAA Chart No.: 13229

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

None

Water Level Information

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US Army Corps of Engineers
District: CENAE

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: PJB
CHECKED BY: WHW
ISSUE DATE: 3/28/2019
SUBMITTED BY: William Walker
APPROVED BY: NAE Survey
MAP DOCUMENT: MA_62_FLR.mxd
SIZE: ANSI D

FALL RIVER HARBOR
RHODE ISLAND AND MASSACHUSETTS
CONDITION SURVEY
35-FOOT CHANNELS AND TURNING BASIN 30-FOOT CHANNELS AND 25-FOOT ANCHORAGE

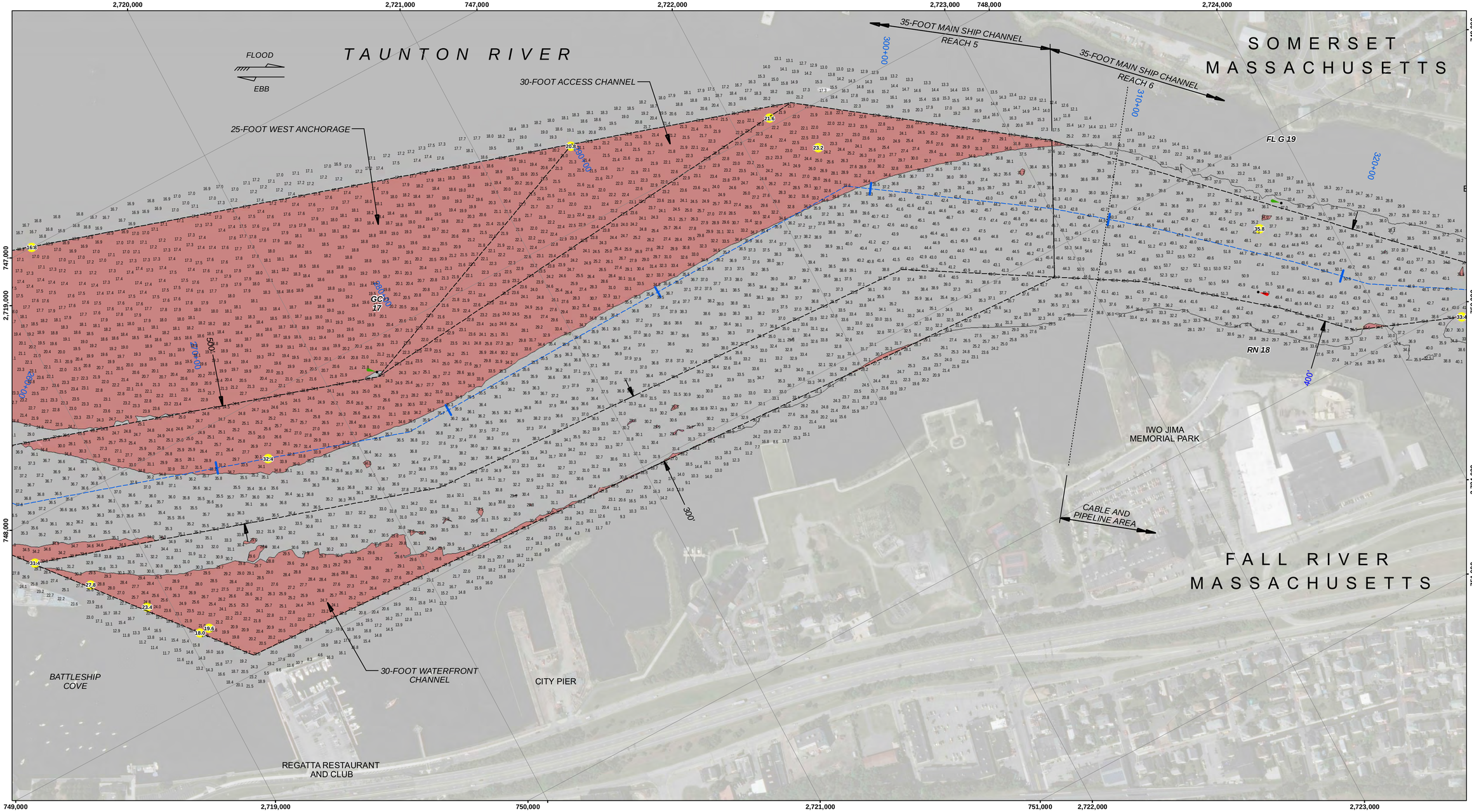
File Name: MA_62_FLR_20190125_CS_2019_012

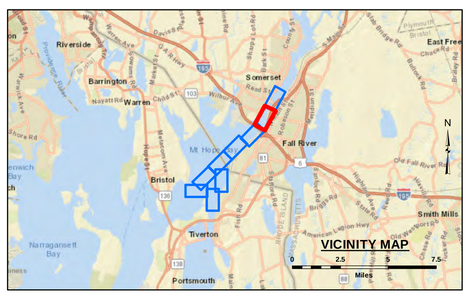
SHEET IDENTIFICATION
Fall River Harbor

Revision Number: 3.162-20180601

CORPS OF ENGINEERS

U.S. ARMY





LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable Submarine
- 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

1" = 200'

200 0 200 400 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: KEEGAN
Sonar System: Reson 7125 (Multibeam Sonar)
Sounding Frequency: 400 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 4566
Survey No.: FLR_CS_2019_012
Reference NOAA Chart No.: 13229

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

None

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 corrections for this project range from 2.33 feet to 2.61 feet. These corrections are referenced from NOAA's V-Datum Model Version 3.9, ME/NH/MA region Version 1.3, in the vicinity of Fall River Harbor, Massachusetts. 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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SURVEYED BY: PJB
CHECKED BY: WHW
ISSUE DATE: 3/28/2019

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SUBMITTED BY: William Walker
APPROVED BY: NAE Survey

MAP DOCUMENT: MA_62_FLR.mxd

SIZE: ANSI D

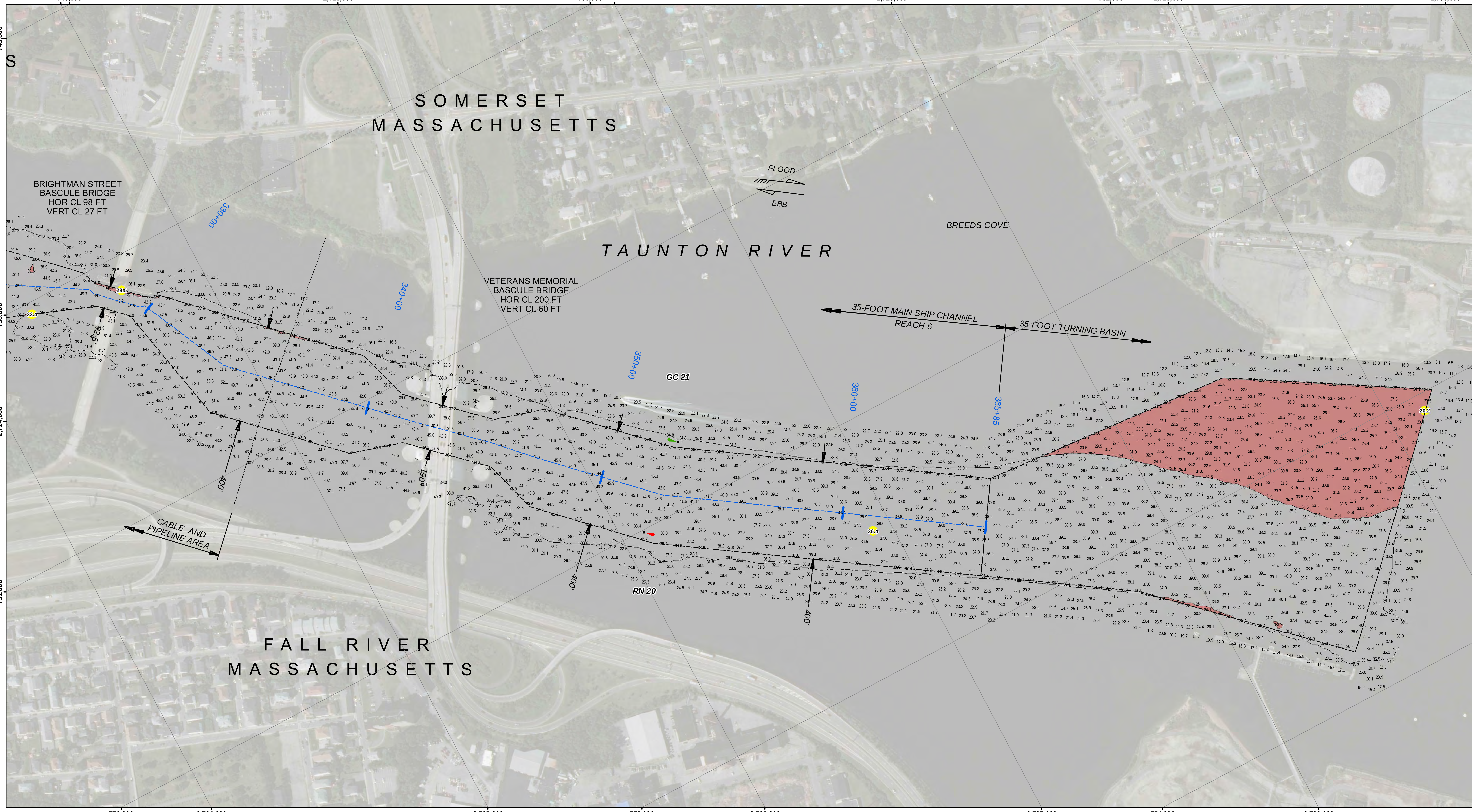
FALL RIVER HARBOR
RHODE ISLAND AND MASSACHUSETTS
CONDITION SURVEY
35-FOOT CHANNELS AND TURNING BASIN
30-FOOT CHANNELS AND
25-FOOT ANCHORAGE

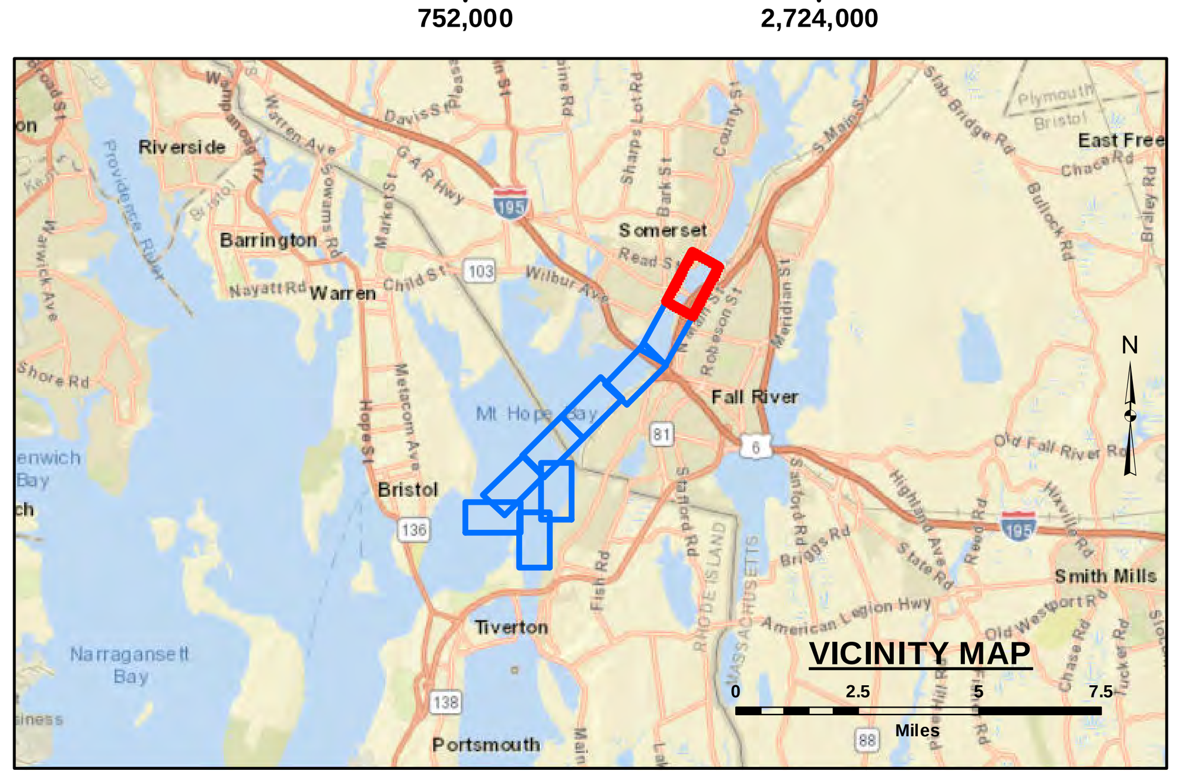
File Name: MA_62_FLR_20190125_CS_2019_012

SHEET IDENTIFICATION
Fall River Harbor

Sheet 8 of 9

Revison Number: 3.162-20180601





LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable Submarine
- 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

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: KEEGAN
Sonar System: Reson 7125 (Multibeam Sonar)
Sounding Frequency: 400 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 4566
Survey No.: FLR_CS_2019_012
Reference NOAA Chart No.: 13229

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FALL RIVER HARBOR
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CONDITION SURVEY
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