CORPS OF ENGINEERS U.S. ARMY

ANCHORAGE 3A (2250' X 2200')

EASTING	NORTHING
1438856.30	574131.57
1440259.71	572437.33
1441372.11	573358.76
1441868.48	574021.38
1440588.58	575566.50

ANCHORAGE 3B (1800 X 1800')

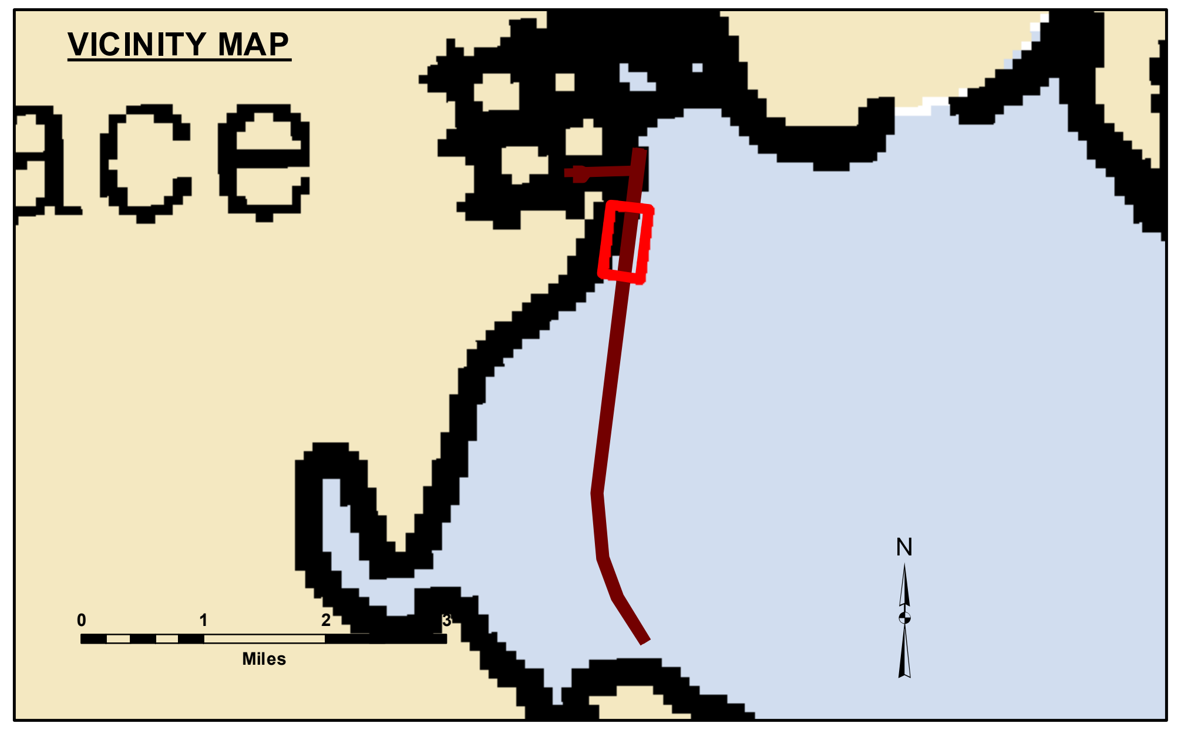
EASTING	NORTHING
1437708.05	575517.76
1438856.30	574131.57
1440280.54	575311.33
1439132.30	576697.53

TIDAL BENCH MARK

TIDAL BENCH MARK IS BENCH MARK 4070F. BENCH MARK IS A STANDARD SURVEY DISK STAMPED “4070F 2005”. FROM THE INTERSECTION OF MD. RTES. 22 AND 40 IN ABERDEEN, HARFORD CO., MD., TRAVEL NE ON LAST MENTIONED ROAD ABOUT 2.8 MILES, TURN RIGHT ONTO REVOLUTION ST. (MD. RTE. 7A). FOLLOW STREET 1.6 MILES TO STRAWBERRY LANE, TURN RIGHT. FOLLOW LANE INTO MILARD TYDINGS MEM. PARK. AFTER ENTERING PARK GO TO SEAWALL. MONUMENT "4070F" IS ALONG THE SEAWALL ABOUT 0.1 MILES WSW FROM THE HARBOR MASTERS OFFICE, UNDER LIGHT POLE "239782", W 60.0 FT. OF AN ELECTRICAL PANEL AND SW 16.0 FT. OF LIGHT POLE"464871".

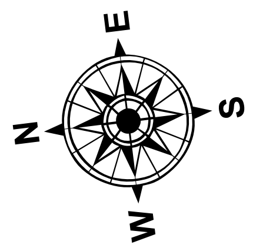
BENCH MARK ELEV. IS 6.06’ ABOVE MLLW FOR THE ’83-’01 TIDAL EPOCH. COMPUTED USING GEOID12B.

BENCH MARK	MLLW ELEV.
4070F	6.06'
4070E	5.76'
4070 TIDAL 4	5.94'



LEGEND

- - - - Federal Navigation Channel Toe
-·-·- Federal Navigation Center Line
······ Cable Submarine
- - - Cable Overhead
—— Contour Line
▥ Cable Area
▭ Placement Area
⬚ Anchorage Area
☒ Obstruction Point
✈ Wrecks-Submerged
🟥 Shoaling Area
● Shoalest Sounding**
⊥ Beacon, General
♦ Red Navigation Buoy
♦ Green Navigation Buoy



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7. PROJECT DEPTH: 7 FEET.
8. TIDE OBSERVED AT HAVRE DE GRACE MARINA.

US Army Corps
of Engineers
District: CENAB

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U.S. ARMY COPRPS OF ENGINEERS
BALTIMORE DISTRICT

Surveyed By: ____
Plotted By: ____
Checked By: ____

Submitted: ____
Recommended: ____ Chief, Survey Section
Approved: ____ Chief, Waterways Maintenance Section

HARTFORD COUNTY
Susquehanna River

MD_04_004_20190904_CS
04 September 2019

Sheet Reference Number
2 of 10

Revison Number:
3.14-20170731

ANCHORAGE 3A (2250' X 2200')

EASTING	NORTHING
1438856.30	574131.57
1440259.71	572437.33
1441372.11	573358.76
1441868.48	574021.38
1440588.58	575566.50

ANCHORAGE 3B (1800 X 1800')

EASTING	NORTHING
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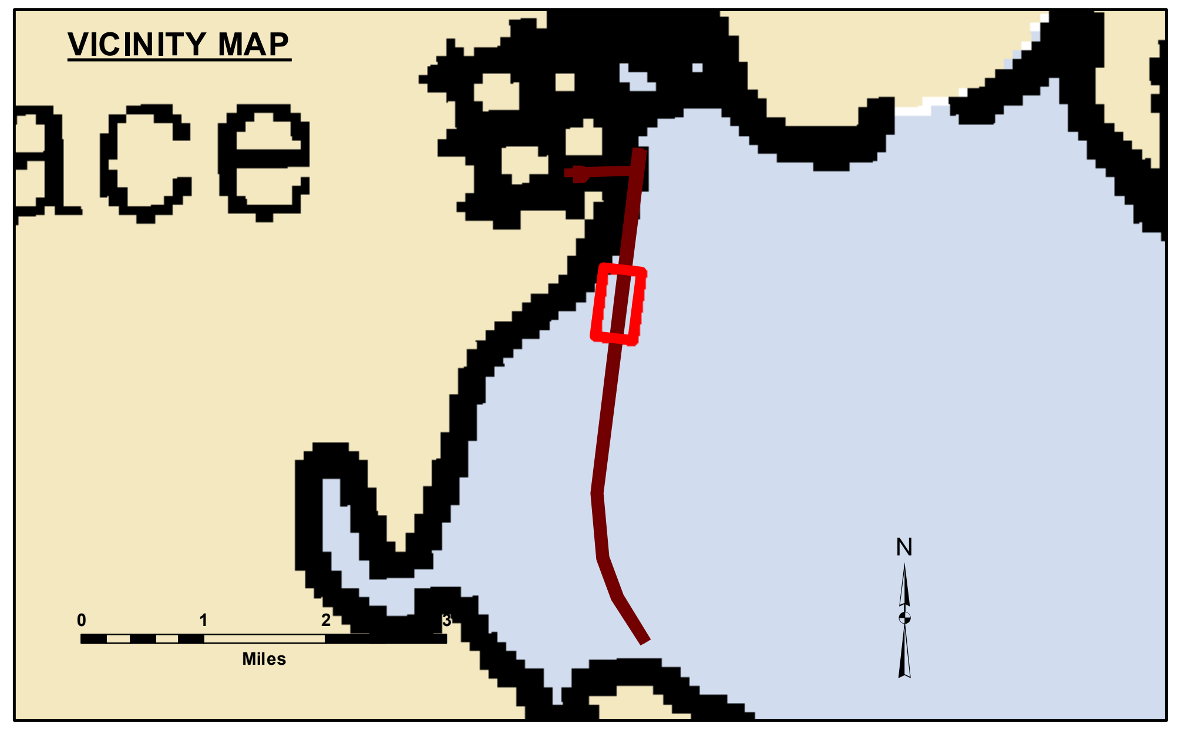
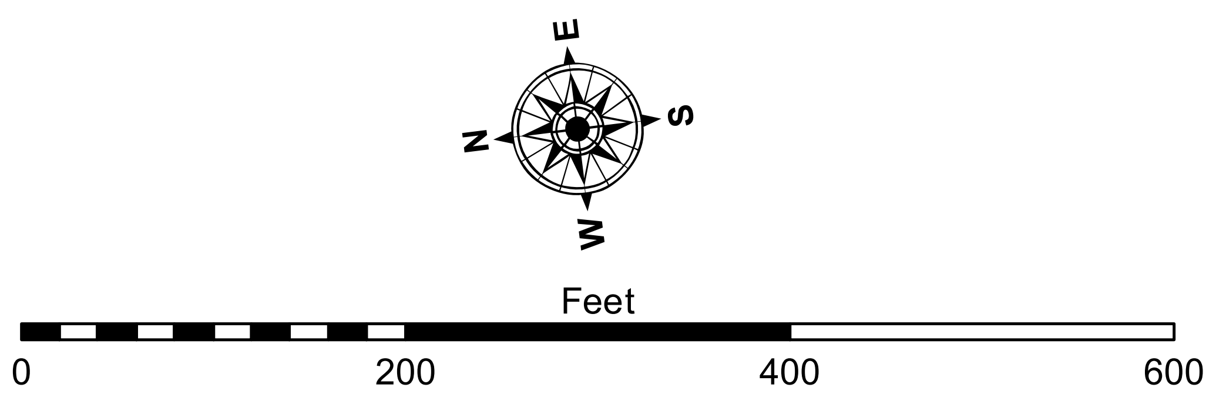
4070 TIDAL 4	5.94'

VICINITY MAP



LEGEND

---- Federal Navigation Channel Toe	▥ Cable Area	🟥 Shoaling Area
-·-·- Federal Navigation Center Line	☐ Placement Area	● Shoalest Sounding**
······ Cable Submarine	⬚ Anchorage Area	⊥ Beacon, General
- - - Cable Overhead	⊠ Obstruction Point	♦ Red Navigation Buoy
—— Contour Line	✈ Wrecks-Submerged	♦ Green Navigation Buoy



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US Army Corps of Engineers
District: CENAB

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U.S. ARMY COPRPS OF ENGINEERS
BALTIMORE DISTRICT

Submitted: ______
Recommended: ______ Chief, Survey Section
Approved: ______ Chief, Waterways Maintenance Section

Surveyed By: ____
Plotted By: ____
Checked By: ____

HARTFORD COUNTY
Susquehanna River

MD_04_004_20190904_CS
04 September 2019

Sheet Reference Number
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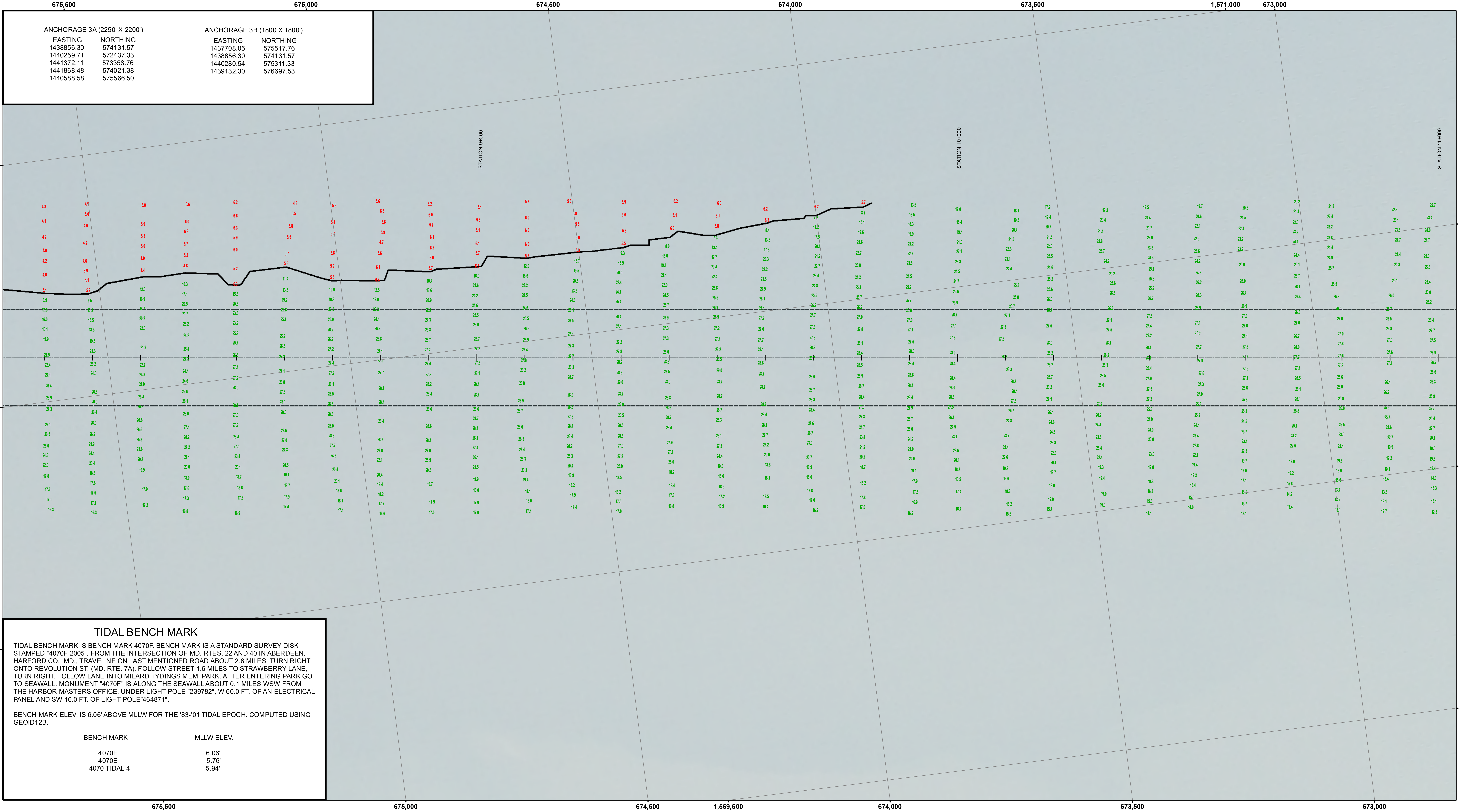
Revison Number:
3.14-20170731



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EASTING	NORTHING
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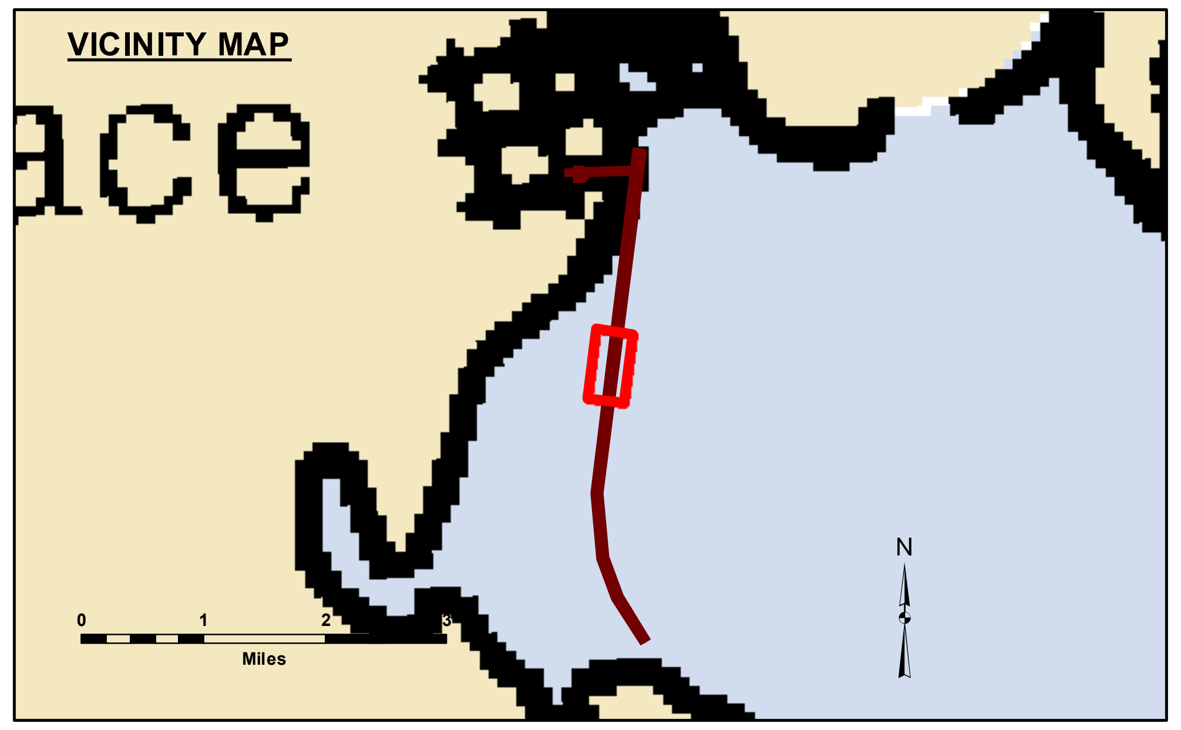
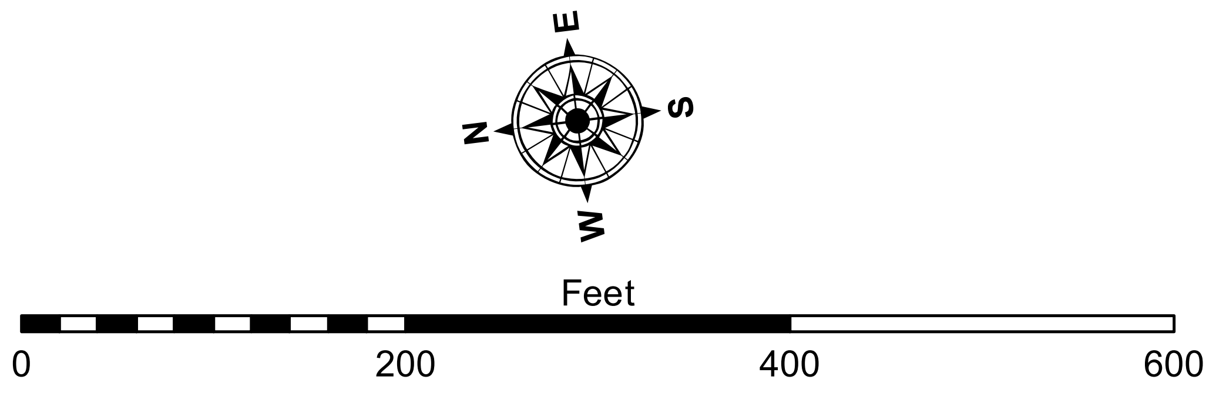
VICINITY MAP



LEGEND

- ╍╍ Federal Navigation Channel Toe
- ─·─ Federal Navigation Center Line
- ┈┈ Cable Submarine
- - - - Cable Overhead
- ── Contour Line
- ▥ Cable Area
- ☐ Placement Area
- ⬚ Anchorage Area
- ☒ Obstruction Point
- ✕ Wrecks-Submerged
- 🟥 Shoaling Area
- ● Shoalest Sounding**
- ⊥ Beacon, General
- ◆ Red Navigation Buoy
- ◆ Green Navigation Buoy



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US Army Corps
of Engineers
District: CENAB

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U.S. ARMY COPRPS OF ENGINEERS
BALTIMORE DISTRICT

Submitted: ______	Surveyed By: ___
Recommended: ______ Chief, Survey Section	Plotted By: ___
Approved: ______ Chief, Waterways Maintenance Section	Checked By: ___

HARTFORD COUNTY
Susquehanna River
MD_04_004_20190904_CS
04 September 2019

Sheet
Reference
Number
4 of 10

Revison Number:
3.14-20170731

ANCHORAGE 3A (2250' X 2200')		ANCHORAGE 3B (1800 X 1800')	
EASTING	NORTHING	EASTING	NORTHING
1438856.30	574131.57	1437708.05	575517.76
1440259.71	572437.33	1438856.30	574131.57
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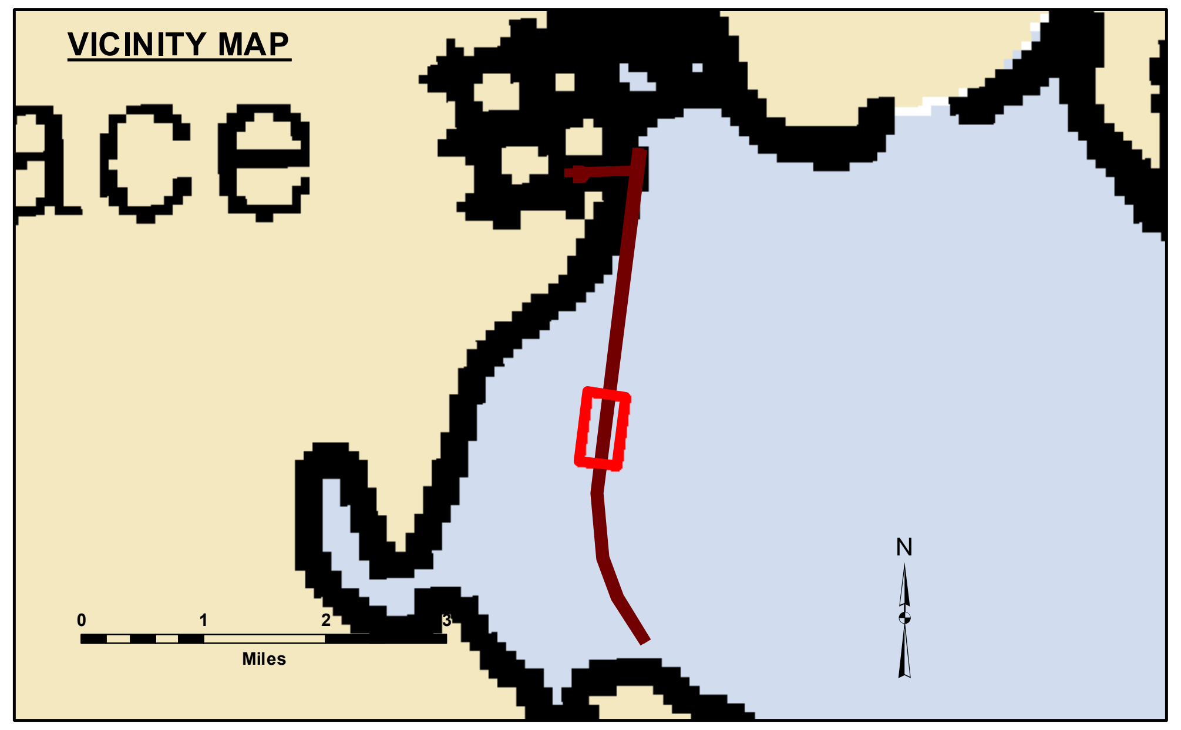
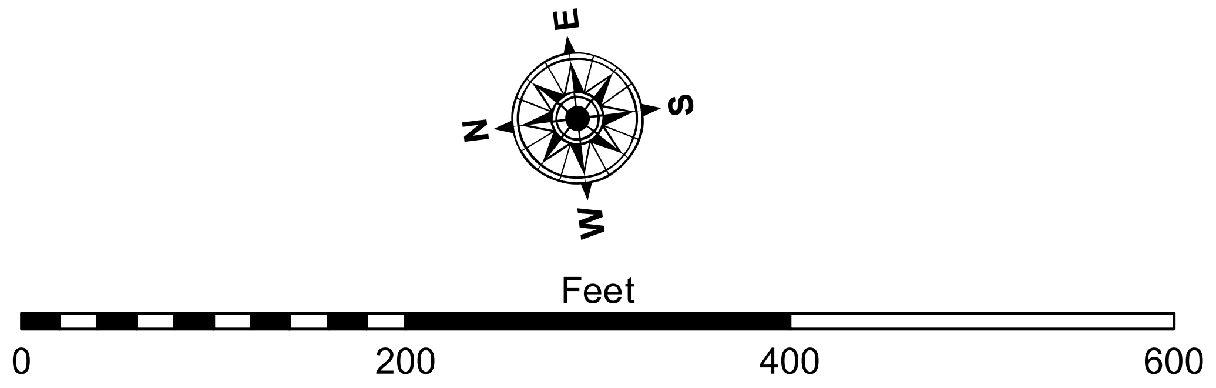
VICINITY MAP



LEGEND

---- Federal Navigation Channel Toe	▥ Cable Area	🟥 Shoaling Area
-·-·- Federal Navigation Center Line	☐ Placement Area	● Shoalest Sounding**
······ Cable Submarine	⬚ Anchorage Area	⊥ Beacon, General
- - - Cable Overhead	⊠ Obstruction Point	♦ Red Navigation Buoy
—— Contour Line	✶ Wrecks-Submerged	♦ Green Navigation Buoy



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**US Army Corps
of Engineers
District: CENAB**

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U.S. ARMY COPRPS OF ENGINEERS
BALTIMORE DISTRICT

Submitted: ______

Recommended: ______
Chief, Survey Section

Approved: ______
Chief, Waterways Maintenance Section

Surveyed By: ______

Plotted By: ______

Checked By: ______

**HARTFORD COUNTY
Susquehanna River**

MD_04_004_20190904_CS

04 September 2019

**Sheet
Reference
Number**

5 of 10

Revison Number:
3.14-20170731

ANCHORAGE 3A (2250' X 2200')

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EASTING	NORTHING
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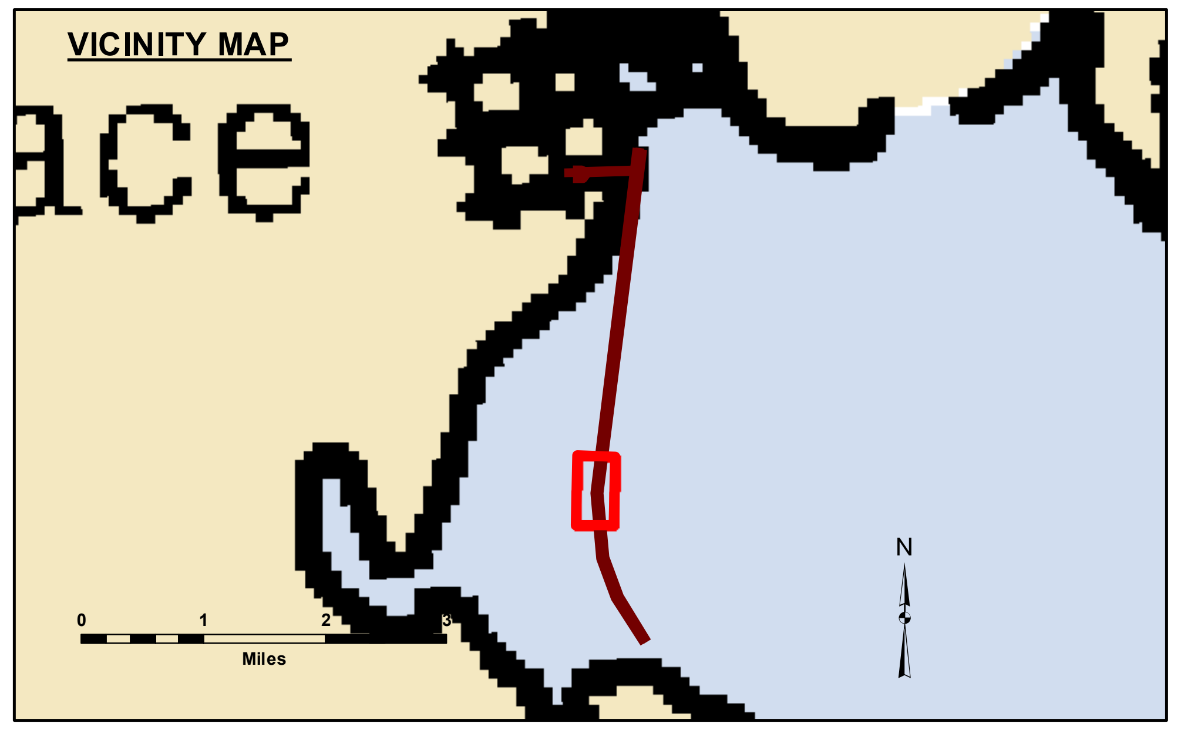

LEGEND

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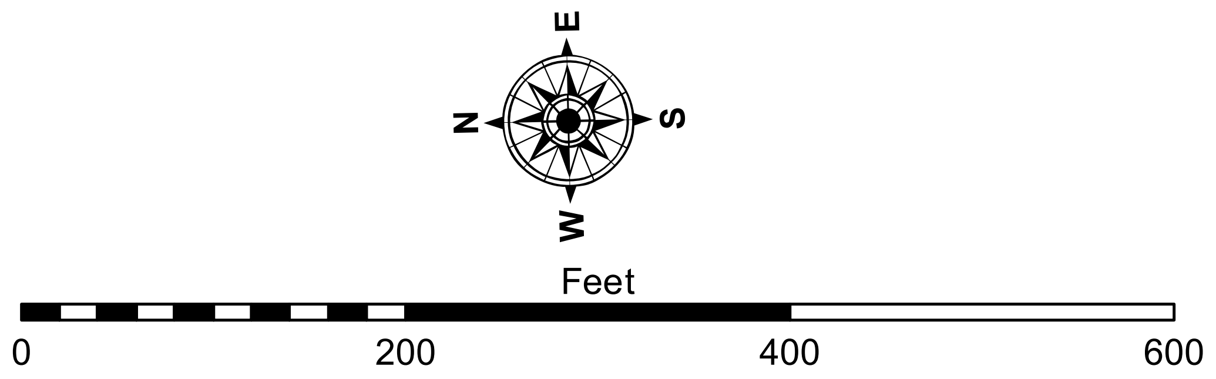

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Surveyed By:
Plotted By:
Checked By:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Submitted:
Recommended: Chief, Survey Section
Approved: Chief, Waterways Maintenance Section

HARTFORD COUNTY
Susquehanna River
MD_04_004_20190904_CS
04 September 2019

Sheet Reference Number
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Revison Number:
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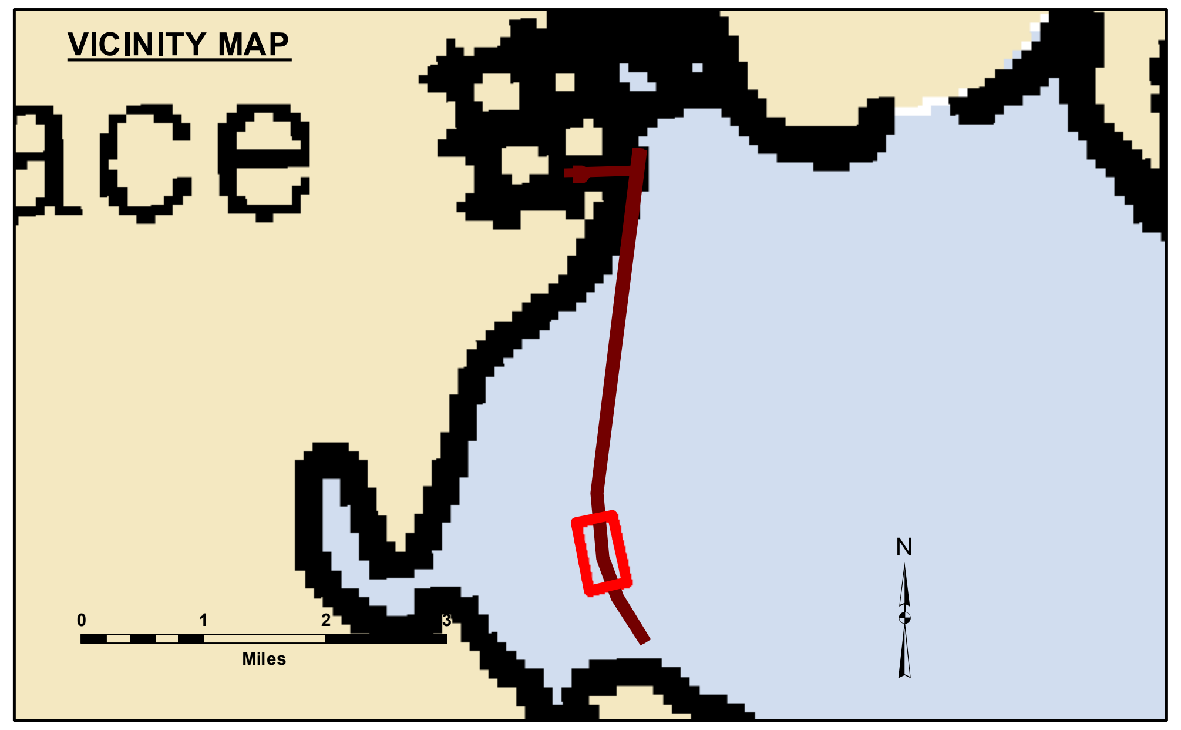

LEGEND

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······ Cable Submarine	⬚ Anchorage Area	⊥ Beacon, General
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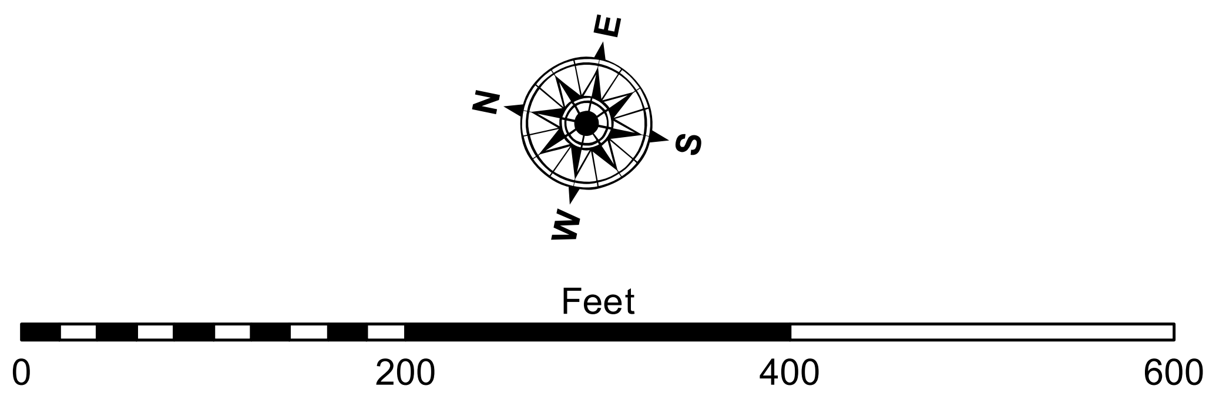

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6. THE BOTTOM WAS DEFINED BY AN ODOM ECHOSOUNDER AND A 200KHZ TRANSDUCER.
7. PROJECT DEPTH: 7 FEET.
8. TIDE OBSERVED AT HAVRE DE GRACE MARINA.

US Army Corps
of Engineers
District: CENAB

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U.S. ARMY COPRPS OF ENGINEERS
BALTIMORE DISTRICT

Submitted: ____________

Recommended: ____________
Chief, Survey Section

Approved: ____________
Chief, Waterways Maintenance Section

Surveyed By: ____

Plotted By: ____

Checked By: ____

HARTFORD COUNTY
Susquehanna River
MD_04_004_20190904_CS
04 September 2019

Sheet
Reference
Number
7 of 10

Revison Number:
3.14-20170731

ANCHORAGE 3A (2250' X 2200')

EASTING	NORTHING
1438856.30	574131.57
1440259.71	572437.33
1441372.11	573358.76
1441868.48	574021.38
1440588.58	575566.50

ANCHORAGE 3B (1800 X 1800')

EASTING	NORTHING
1437708.05	575517.76
1438856.30	574131.57
1440280.54	575311.33
1439132.30	576697.53

TIDAL BENCH MARK

TIDAL BENCH MARK IS BENCH MARK 4070F. BENCH MARK IS A STANDARD SURVEY DISK STAMPED “4070F 2005”. FROM THE INTERSECTION OF MD. RTES. 22 AND 40 IN ABERDEEN, HARFORD CO., MD., TRAVEL NE ON LAST MENTIONED ROAD ABOUT 2.8 MILES, TURN RIGHT ONTO REVOLUTION ST. (MD. RTE. 7A). FOLLOW STREET 1.6 MILES TO STRAWBERRY LANE, TURN RIGHT. FOLLOW LANE INTO MILARD TYDINGS MEM. PARK. AFTER ENTERING PARK GO TO SEAWALL. MONUMENT "4070F" IS ALONG THE SEAWALL ABOUT 0.1 MILES WSW FROM THE HARBOR MASTERS OFFICE, UNDER LIGHT POLE "239782", W 60.0 FT. OF AN ELECTRICAL PANEL AND SW 16.0 FT. OF LIGHT POLE"464871".

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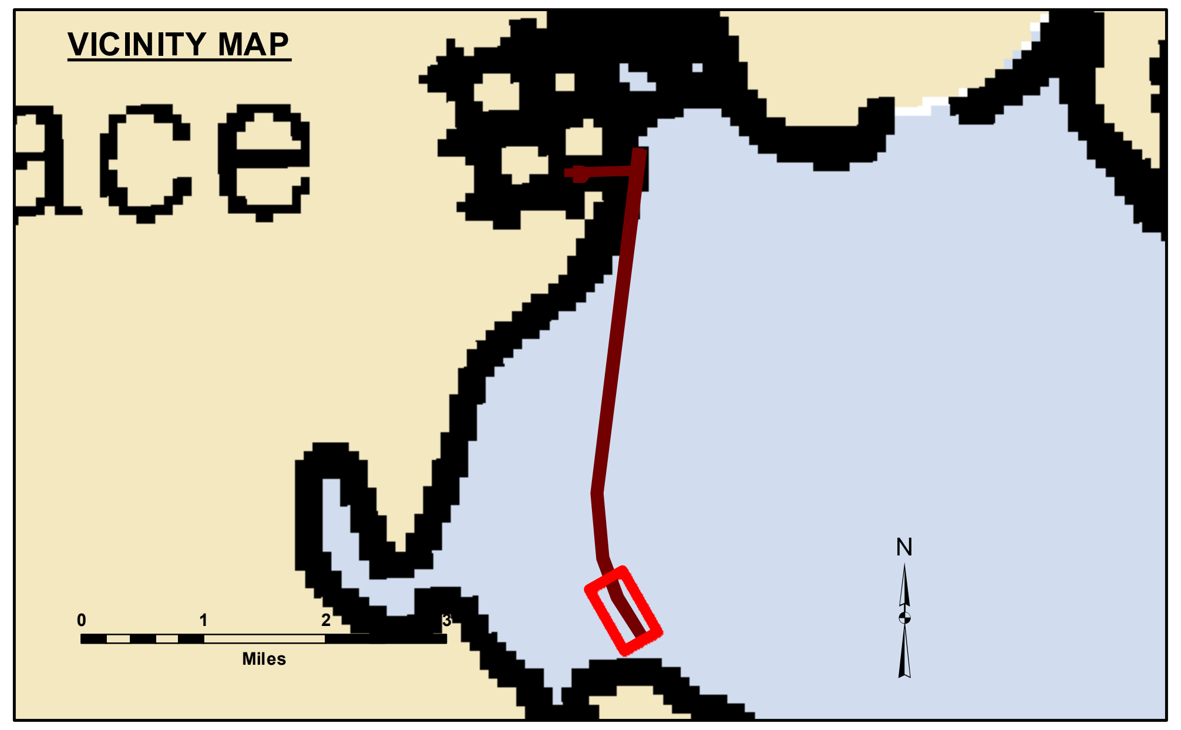
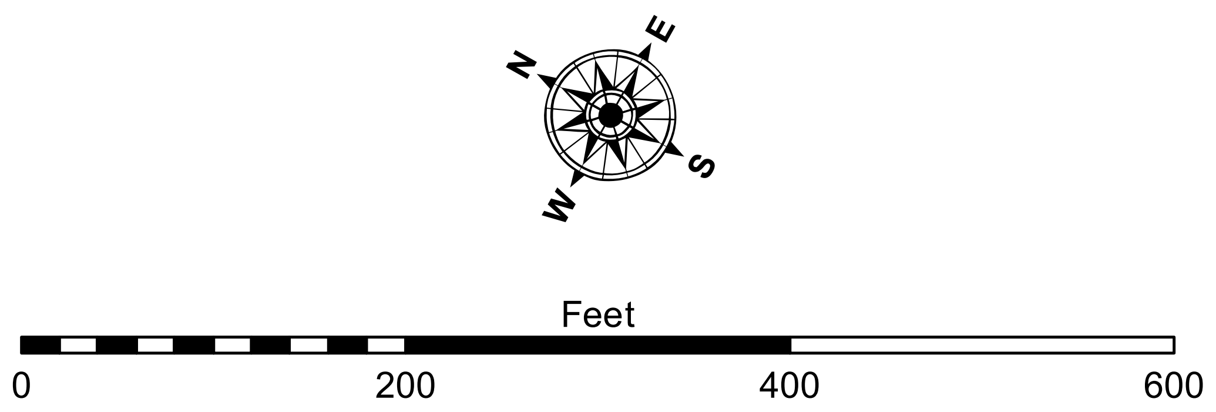
BENCH MARK	MLLW ELEV.
4070F	6.06'
4070E	5.76'
4070 TIDAL 4	5.94'



LEGEND

Federal Navigation Channel Toe	▥ Cable Area	🟥 Shoaling Area
Federal Navigation Center Line	☐ Placement Area	● Shoalest Sounding**
Cable Submarine	⬚ Anchorage Area	⊥ Beacon, General
Cable Overhead	⊠ Obstruction Point	♦ Red Navigation Buoy
Contour Line	Wrecks-Submerged	♦ Green Navigation Buoy



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US Army Corps
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District: CENAB

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U.S. ARMY COPRPS OF ENGINEERS
BALTIMORE DISTRICT

Submitted:	Surveyed By:
Recommended: Chief, Survey Section	Plotted By:
Approved: Chief, Waterways Maintenance Section	Checked By:

HARTFORD COUNTY
Susquehanna River

MD_04_004_20190904_CS

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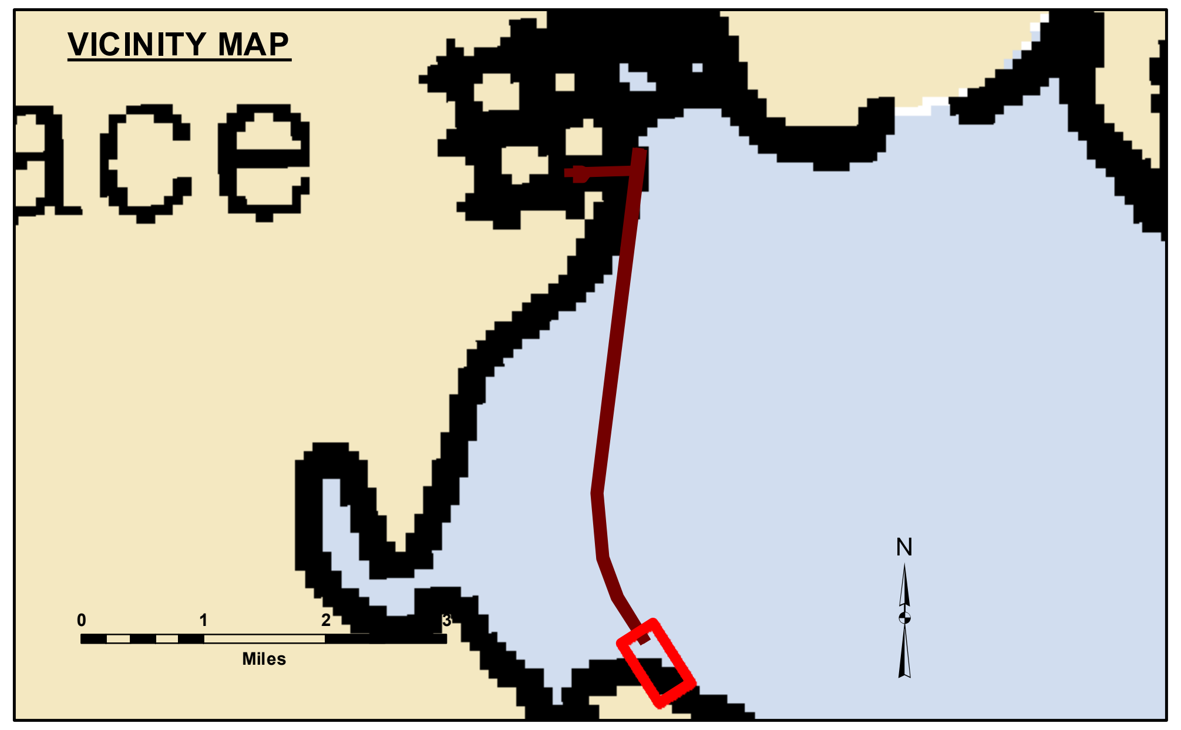
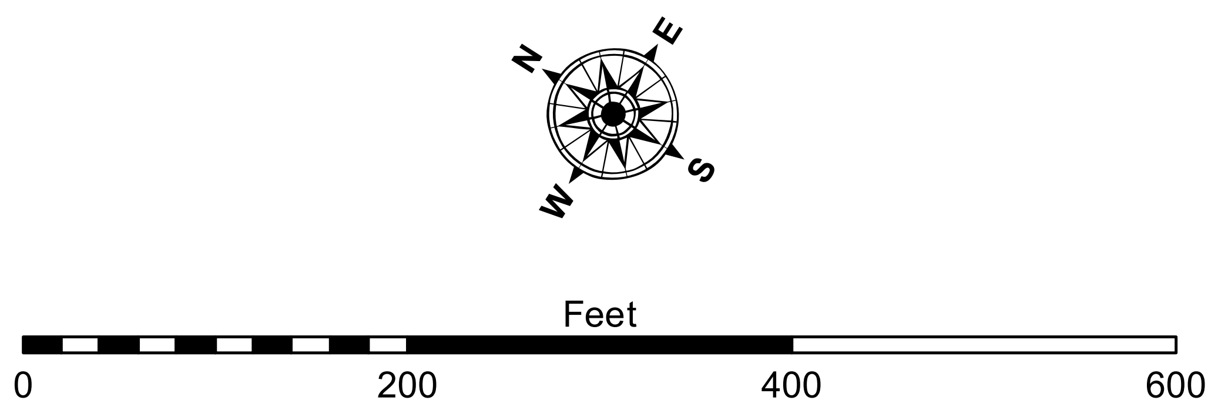


LEGEND

- ---- Federal Navigation Channel Toe
- -·-·- Federal Navigation Center Line
- ······ Cable Submarine
- - - - Cable Overhead
- —— Contour Line
- ▥ Cable Area
- ☐ Placement Area
- ⬚ Anchorage Area
- ⊠ Obstruction Point
- ✈ Wrecks-Submerged
- 🟥 Shoaling Area
- ● Shoalest Sounding**
- ⊥ Beacon, General
- ♦ Red Navigation Buoy
- ♦ Green Navigation Buoy



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BALTIMORE DISTRICT

Submitted: ______	Surveyed By: ____
Recommended: ______ Chief, Survey Section	Plotted By: ____
Approved: ______ Chief, Waterways Maintenance Section	Checked By: ____

HARTFORD COUNTY
Susquehanna River

MD_04_004_20190904_CS
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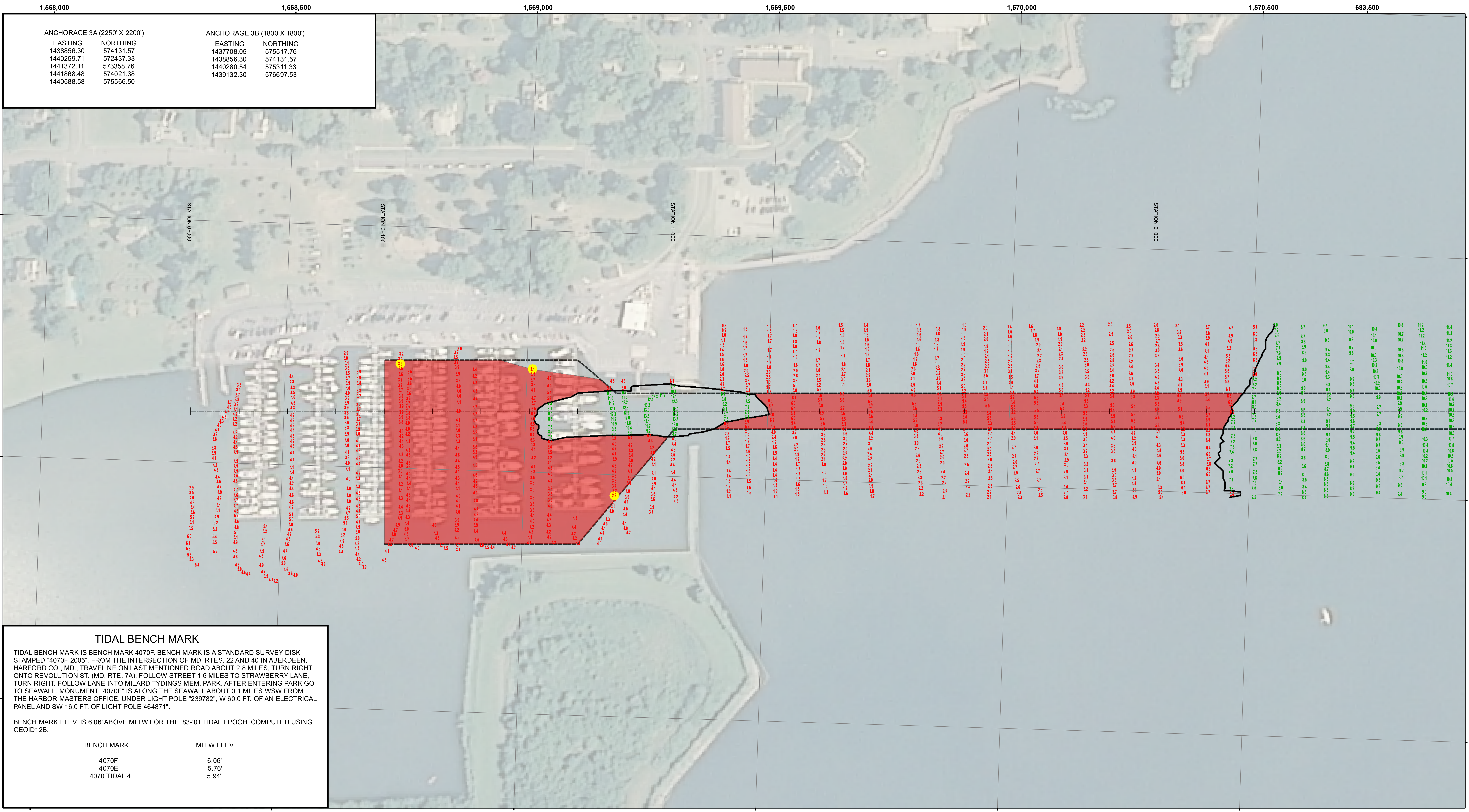

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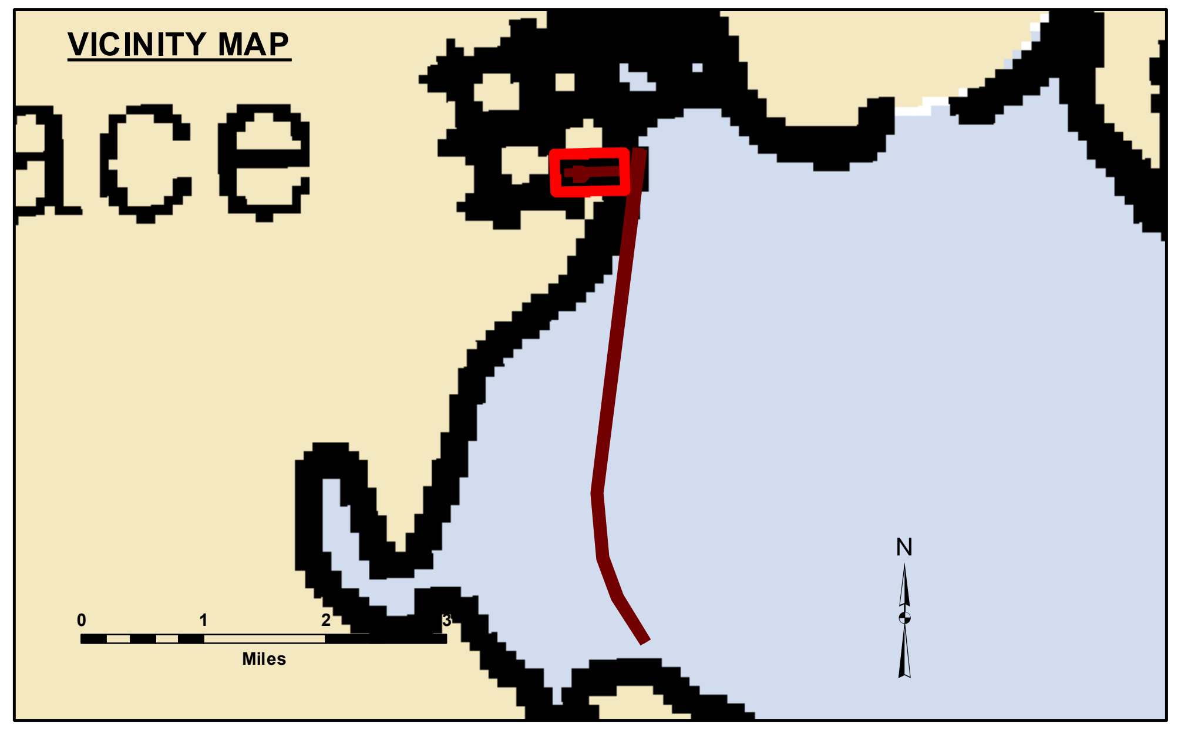

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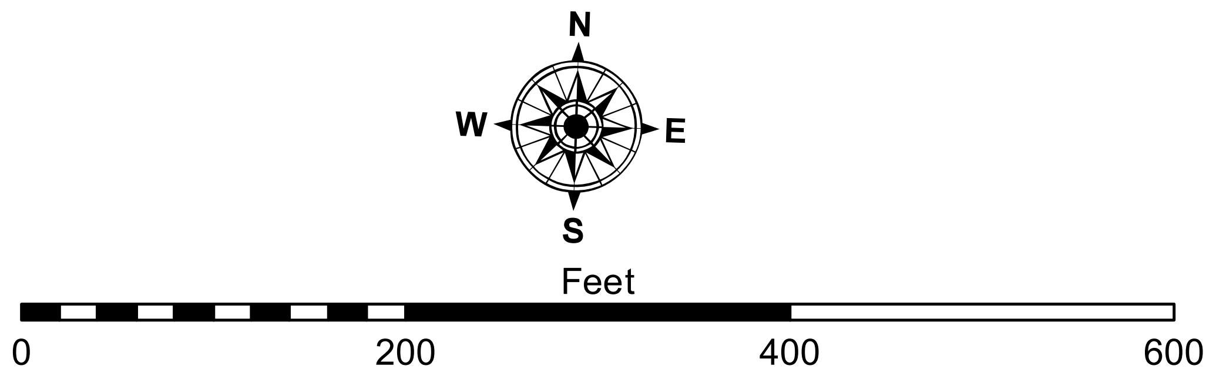

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BALTIMORE DISTRICT

Submitted:	Surveyed By:
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HARTFORD COUNTY
Susquehanna River

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