



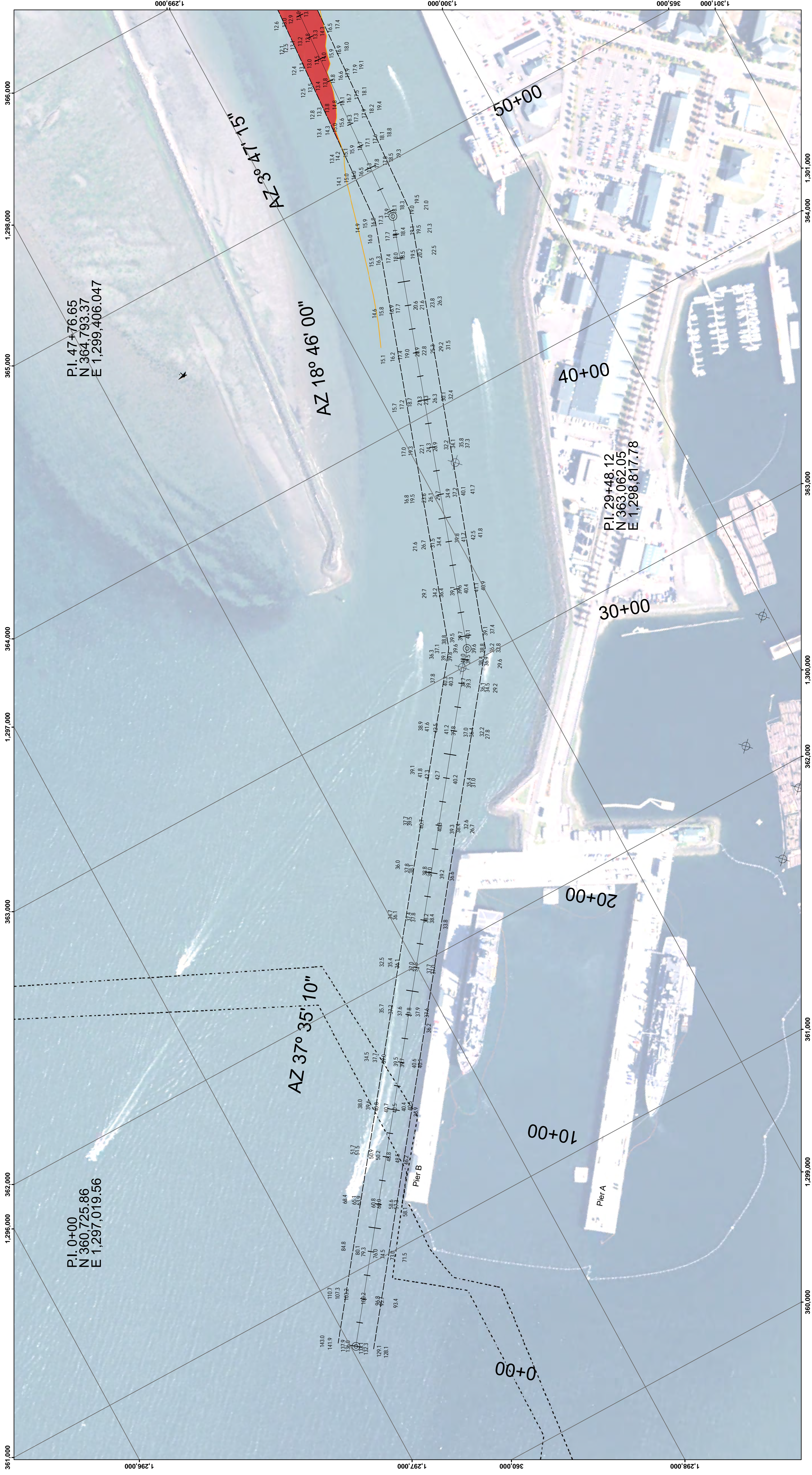
CAUTION: NOT INTENDED FOR NAVIGATIONAL OR RELATED PURPOSES. The information on this map results from hydro surveys performed on the dates indicated. Although the U.S. Army Corps of Engineers strives to maintain accurate and precise maps, the information on this map may not be accurate, may not be current, and/or may be incomplete or containing omissions. It may be in error. The U.S. Army Corps of Engineers and its suppliers makes no warranties, express or implied, as to the accuracy of conditions depicted except as described above, including no warranties as to the usability or suitability for any particular purpose.

Surveyed By:	NU & JA
Plotted By:	L.M.R.
Checked By:	
PREPARED: JOHN L. PELL PROJECT MANAGER, NAVIGATION SECTION	
SUBMITTED: JOHN A. HICKS CHIEF, NAVIGATION SECTION	

EVERETT HARBOR
SNOHOMISH CHANNEL
E-2-8-309

Sheet
Number
1 of 7

Revision Data
3/16/2019(86)



- NOTES:**
1. Sounding and elevations are in feet and refer to the plane of NOS Mean Lower Low Water (MLLW), Epoch 1983-2001. Tide correction Based on Geoid 2012A using Real Time Kinematic (RTK).
 2. Horizontal Datum: WGS-84. Projected coordinate system: Lambert Grid Projection, State Plane, Washington North Zone, 4601, Surveyed in North American Datum of 1983/2011, Plotted in North American Datum of 1983/81.
 3. Horizontal units are U.S. Survey Feet.
 4. The information depicted on this map represents the results of surveys made on the date indicated and can only be considered as indicating the general conditions existing at that time.
 5. Soundings taken above the datum plane are prefixed with a (+) sign.
 6. The location of navigation aids are provided by the U.S. Coast Guard or the Corps of Engineers.
 7. Base imagery prepared from natural color four band imagery provided by the National Agriculture Imagery Program (NAIP) taken by United States Department of Agriculture (2013).
 8. Every effort has been made to provide all pertinent details on the location of obstructions/utilities. The data furnished on the plans are believed to be substantially correct. However, the exact locations may vary from that shown.
 9. (Project Depth, Stations, Width): (15', Sta. 0+00 to Sta. 78+00, 150'); (20', Sta. 78+00 to 90+00, 150'); (Settling Basin Left (20', Sta. 78+00 to 90+00, 200'); (Settling Basin Right (15', Sta. 60+00 to 78+00, 200'); (20', Sta. 78+00 to 90+00, 200'); (6', Sta. 90+00 to Sta. 164+47, 150'); (6', Sta. 164+47 to Sta. 177+46, 175'); (6', Sta. 177+46 to Sta. 335+50, 50'); (6'-40', Sta. 335+50 to Sta. 337+00, 150'); (40', Sta. 337+00 to Sta. 354+46, 150'); (40'-8', Sta. 354+46 to Sta. 355+76, 150'); (6', Sta. 355+76 to Sta. 361+76, 150').

NOTES:
The channel alignment shown on this map is Alignment 2014
The following equipment was used for this survey:
Ross 835B Singlebeam 3.5 degree, 200 khz transducer.

Survey Vessel, NWS 1-16-32
The following surveys were used to create this drawing set:
Condition, 8, 9, 10 Jan 2019, 2019ev006

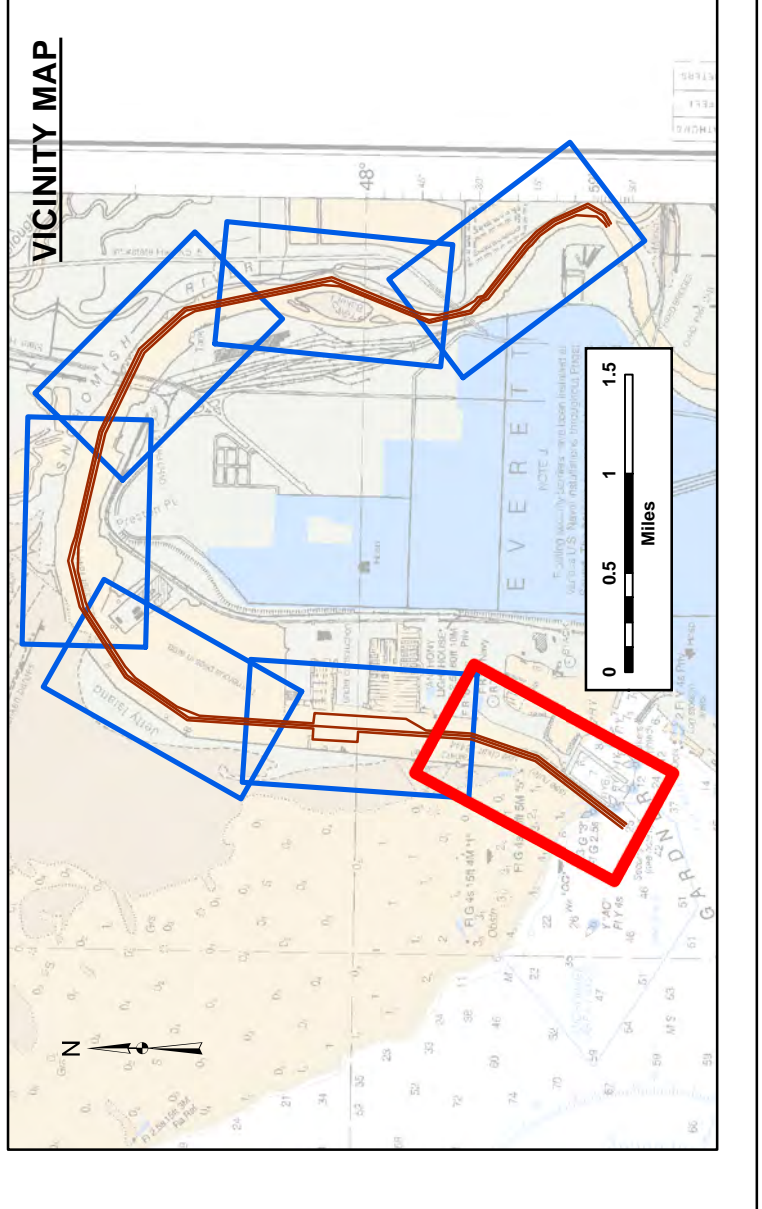
LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Project Depth Contour Line
- Shoaling Area Above Project Depth
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- Wracks-Submerged
- Shoalest Sounding**
- Red Navigation Buoy
- Green Navigation Buoy

Feet
0 200 400 600 800 1,000

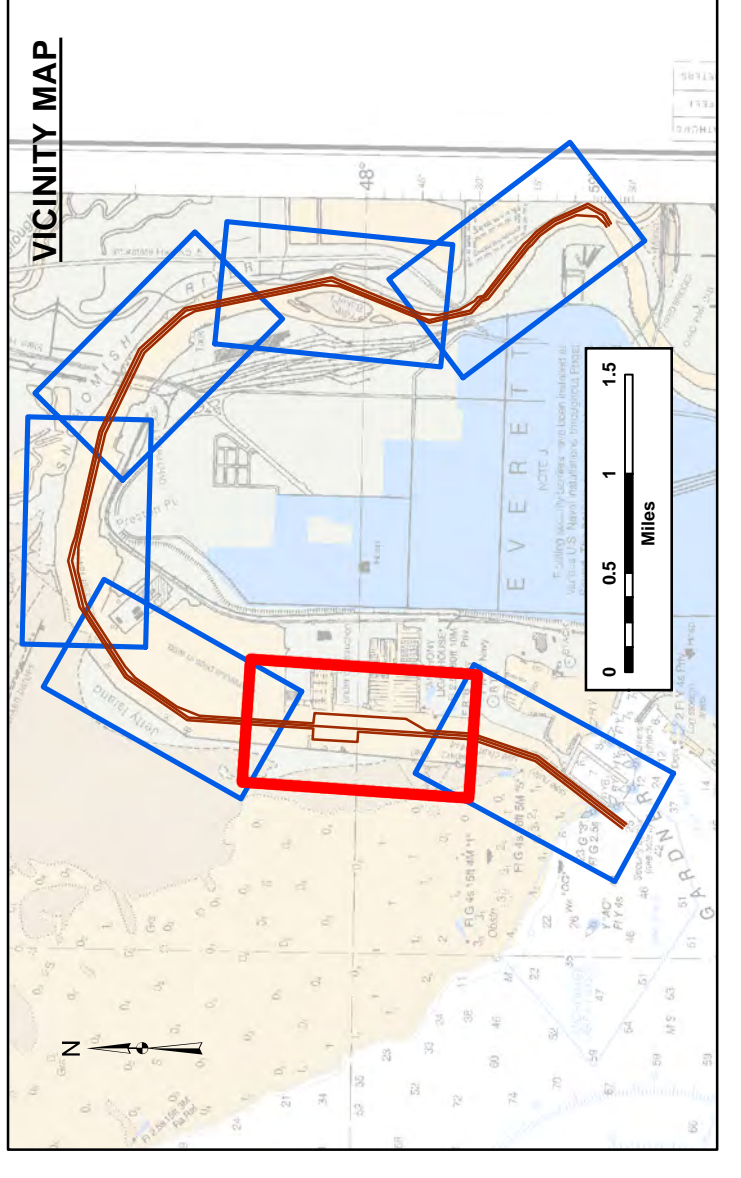
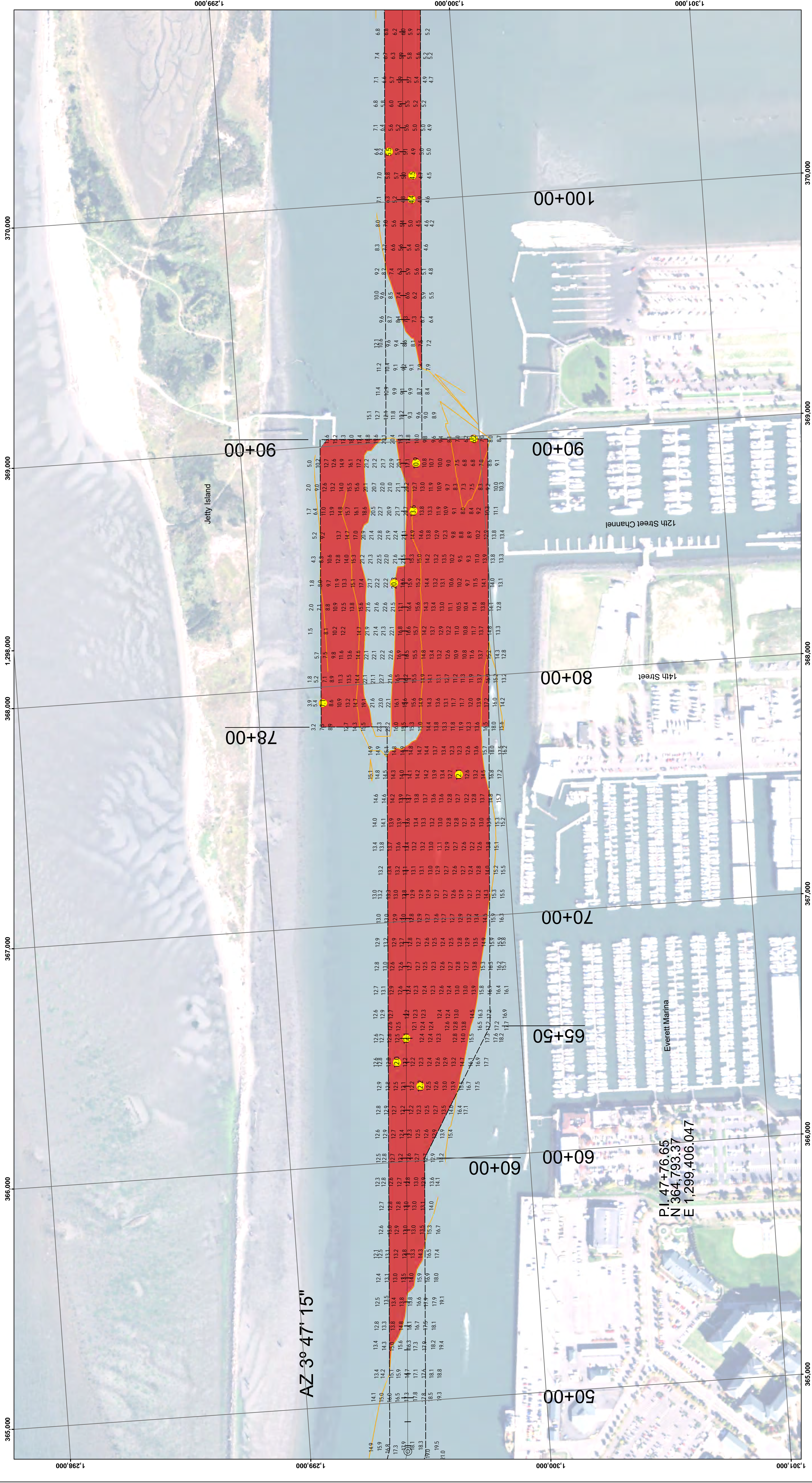
** Shoalest sounding per quarter, per each area. Areas are defined as a change in width and/or depth.

ES_01_EHS_20190108_CS_E_2_8_309



U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT	Surveyed By: NU & JA
PROJECT MANAGER, NAVIGATION SECTION	Plotted By: LAKR
CHIEF, NAVIGATION SECTION	Checked By:

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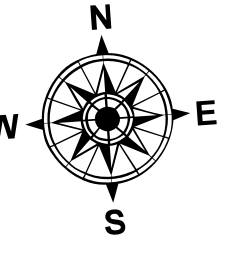
LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Project Depth Contour Line
- Shoaling Area Above Project Depth
- Shoalest Sounding**
- Red Navigation Buoy
- Green Navigation Buoy
- Obstruction Point
- Wracks-Submerged

Scale: 0 to 1,000 Feet

** Shoalest sounding per quarter, per each area. Areas are defined as a change in width and/or depth.

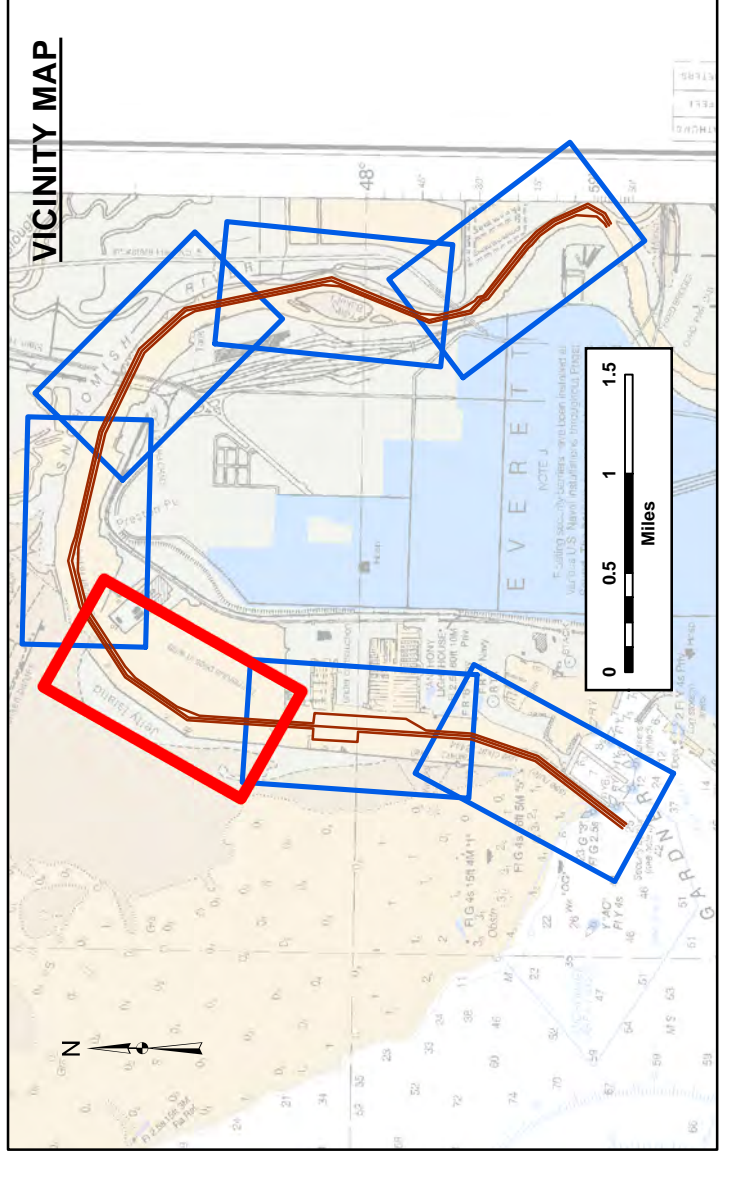
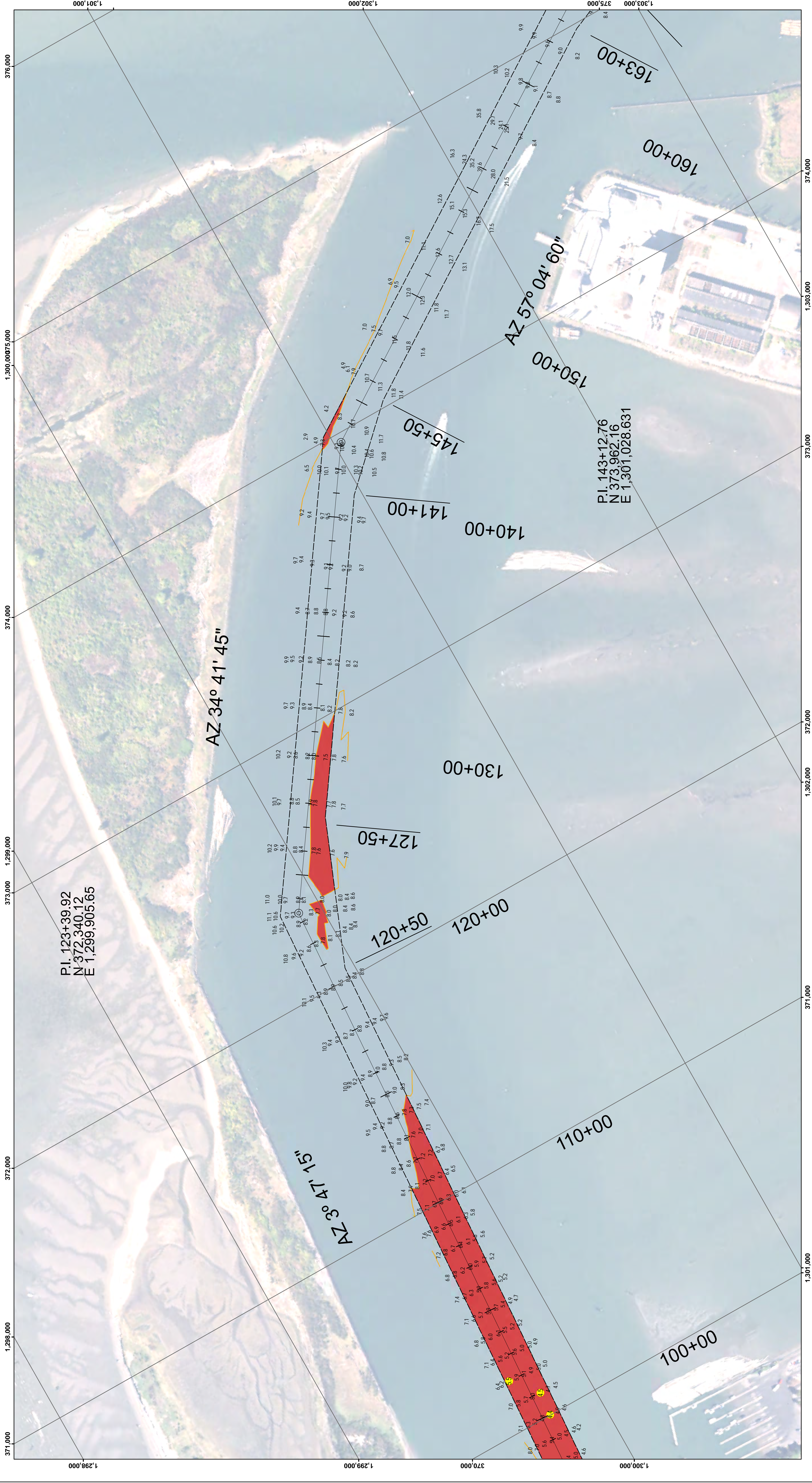
- NOTES:**
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 - Horizontal Datum: WGS-84. Projected coordinate system: Lambert Grid Projection, State Plane, Washington North Zone, 4601, Surveyed in North American Datum of 1983/2011, Plotted in North American Datum of 1983/81.
 - Horizontal units are U.S. Survey Feet.
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 - Base imagery prepared from natural color four band imagery provided by the National Agriculture Imagery Program (NAIP) taken by United States Department of Agriculture (2013).
 - Every effort has been made to provide all pertinent details on the location of obstructions/utilities. The data furnished on the plans are believed to be substantially correct. However, the exact locations may vary from that shown.
 - (Project Depth, Stations, Width): (15', Sta. 0+00 to Sta. 78+00, 150'); (20', Sta. 78+00 to 90+00, 150'); (Settling Basin Left (20', Sta. 78+00 to 90+00, 200'); (Settling Basin Right (15', Sta. 60+00 to 78+00, 200'); (20', Sta. 78+00 to 90+00, 200'); (6', Sta. 90+00 to Sta. 164+47, 150'); (6', Sta. 164+47 to Sta. 177+46, 175'); (6'-40', Sta. 177+46 to Sta. 335+50, 50'); (6'-40', Sta. 335+50 to Sta. 337+00, 150'); (40', Sta. 337+00 to Sta. 354+46, 150'); (40'-8', Sta. 354+46 to Sta. 355+78, 150'); (6', Sta. 355+78 to Sta. 361+78, 150').



ES_01_EHS_20190108_CS_E_2_8_309

U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT	Surveyed By: NJ & JA	Prepared: JOHN L. PELL PROJECT MANAGER, NAVIGATION SECTION	Checked By: L.M.R.	Submitted: JOHN A. HICKS CHIEF, NAVIGATION SECTION
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LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Project Depth Contour Line
- Shoaling Area Above Project Depth
- Shoaling Area
- Placement Area
- Anchorage Area
- Obstruction Point
- Wracks-Submerged
- Shoalest Sounding**
- Red Navigation Buoy
- Green Navigation Buoy

Feet
0 200 400 600 800 1,000

** Shoalest sounding per quarter, per each area. Areas are defined as a change in width and/or depth.

ES_01_EHS_20190108_CS_E_2_8_309

NOTES:
The channel alignment shown on this map is Alignment 2014. The following equipment was used for this survey:
Ross 835B Singlebeam 3.5 degree, 200 khz transducer.
Survey Vessel, NWS 1-16-32
The following surveys were used to create this drawing set:
Condition, 8, 9, 10 Jan 2019, 2019ev006

NOTES:
1. Sounding and elevations are in feet and refer to the plane of NOS Mean Lower Low Water (MLLW), Epoch 1983-2001. Tide correction Based on Geoid 2012A using Real Time Kinematic (RTK).
2. Horizontal Datum: WGS-84. Projected coordinate system: Lambert Grid Projection, State Plane, Washington North Zone, 4601, Surveyed in North American Datum of 1983/2011, Plotted in North American Datum of 1983/81.
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4. The information depicted on this map represents the results of surveys made on the date indicated and can only be considered as indicating the general conditions existing at that time.
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6. The location of navigation aids are provided by the U.S. Coast Guard or the Corps of Engineers.
7. Base imagery prepared from natural color four band imagery provided by the National Agriculture Imagery Program (NAIP) taken by United States Department of Agriculture (2013).
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9. (Project Depth, Stations, Width): (15', Sta. 0+00 to Sta. 78+00, 150'); (20', Sta. 78+00 to 90+00, 150'); (Settling Basin Left (20', Sta. 78+00 to 90+00, 200'); (20', Sta. 60+00 to 78+00, 200'); (20', Sta. 78+00 to 90+00, 200'); (6', Sta. 90+00 to Sta. 164+47, 150'); (6', Sta. 164+47 to Sta. 177+46, 175'); (6', Sta. 177+46 to Sta. 335+50, 50'); (6'-40', Sta. 335+50 to Sta. 337+00, 150'); (40', Sta. 337+00 to Sta. 354+46, 150'); (40'-8', Sta. 354+46 to Sta. 355+78, 150'); (6', Sta. 355+78 to Sta. 361+78, 150').

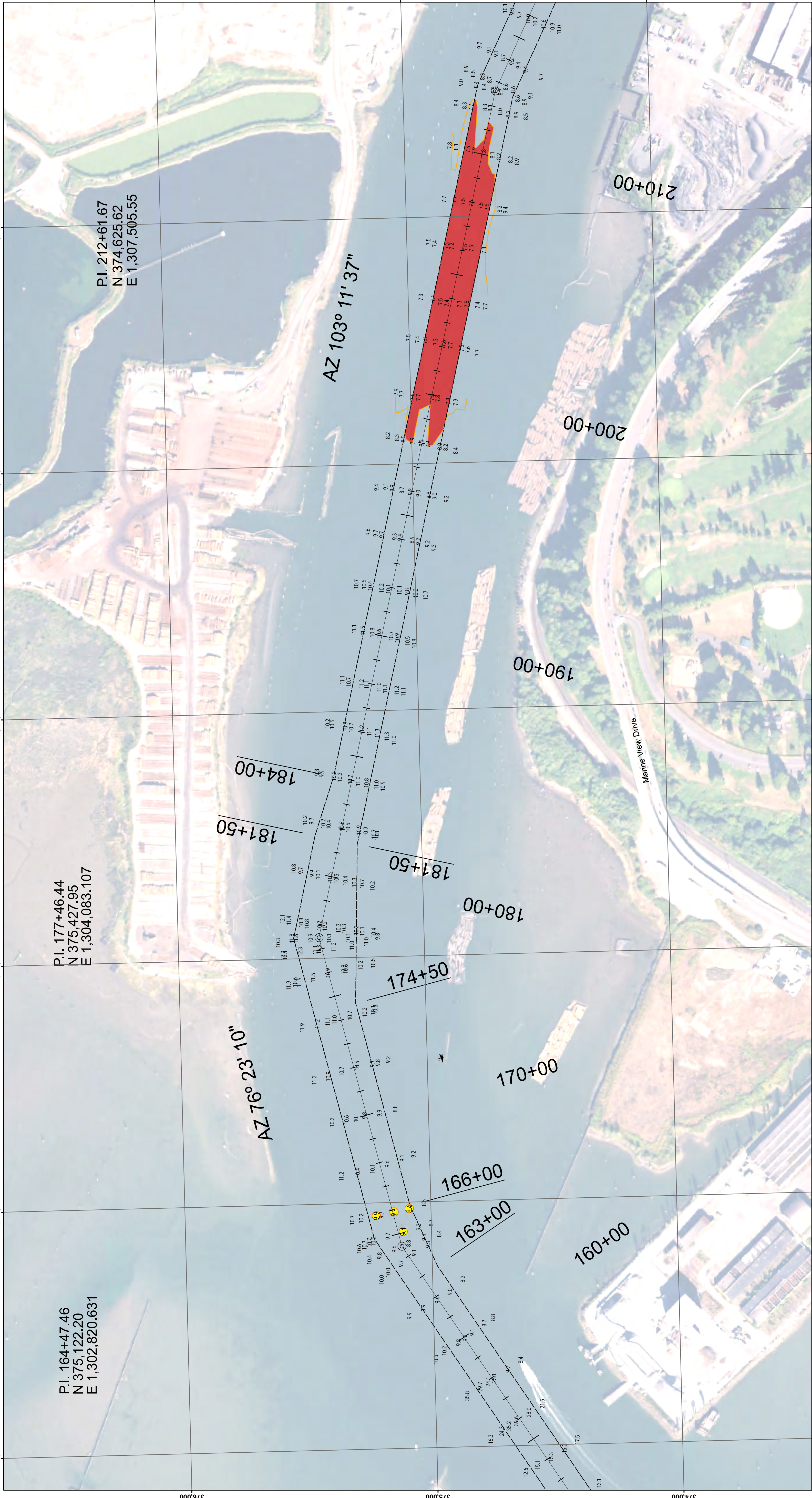
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N 375,122.20
E 1,302,820.631

P.I. 177+46.44
N 375,427.95
E 1,304,083.107

P.I. 212+61.67
N 374,625.62
E 1,307,505.55

AZ 76° 23' 10"

AZ 103° 11' 37"



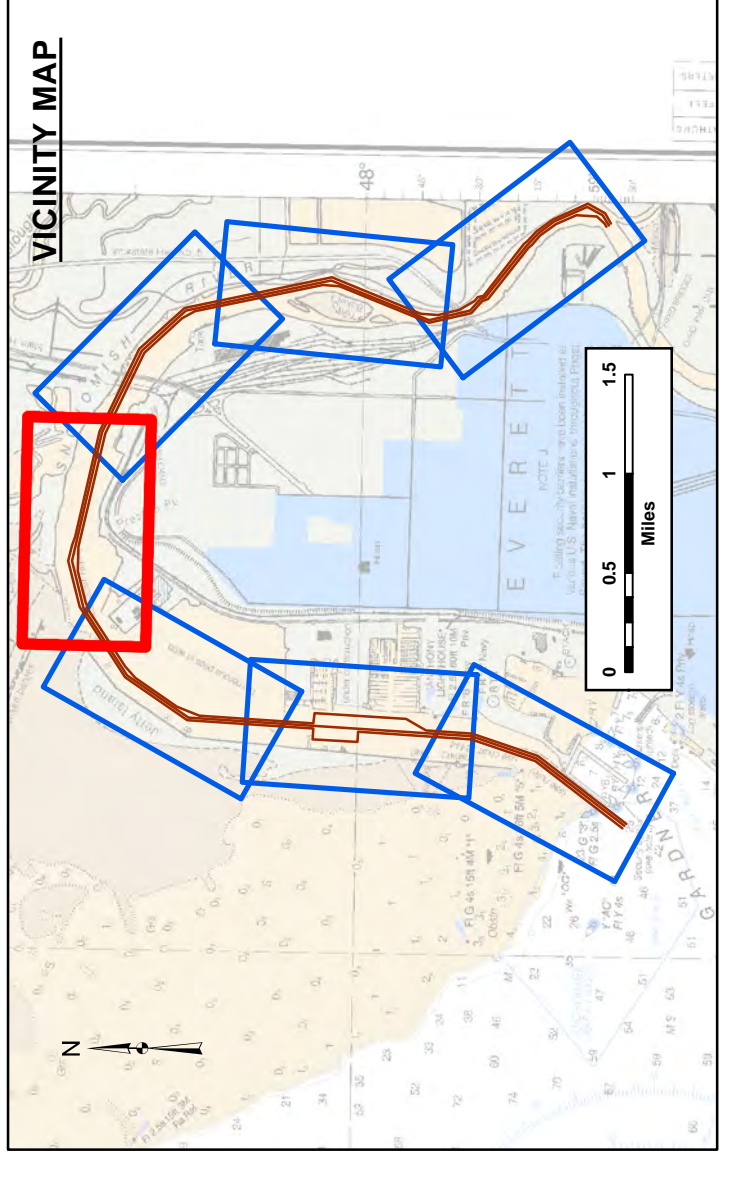
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U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT
Surveyed By: NU & JA
Plotted By: LMR
Checked By:
PREPARED: JOHN L. PELL PROJECT MANAGER, NAVIGATION SECTION
SUBMITTED: JOHN A. HICKS CHIEF, NAVIGATION SECTION

EVERETT HARBOR
SNOHOMISH CHANNEL
E-2-8-309

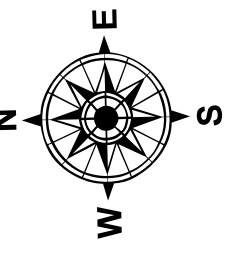
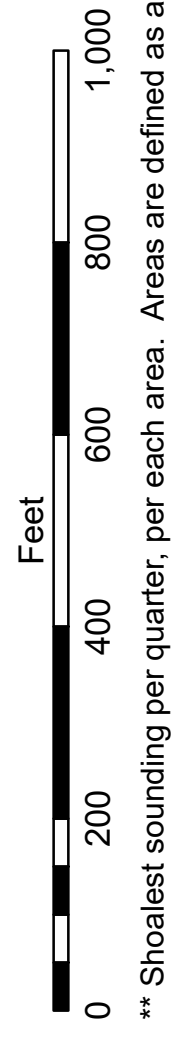
Sheet
Number
4 of 7

Revision Data
3/16/2019(RM)



LEGEND

--- Federal Navigation Channel	■ Shoaling Area Above Project Depth
— Federal Navigation Center Line	● Shoalest Sounding**
... Cable Submarine	◆ Red Navigation Buoy
- - - Cable Overhead	◇ Green Navigation Buoy
- - - Project Depth Contour Line	⊗ Obstruction Point
	✈ Wrecks-Submerged



- NOTES:**
- The channel alignment shown on this map is Alignment 2014. The following equipment was used for this survey:
Ross 835B Singlebeam 3.5 degree, 200 khz transducer.
Survey Vessel, NWS 1-16-32
Condition: 8, 9, 10 Jan 2019, 2019ev006
 - The following surveys were used to create this drawing set:
The data furnished on the plans are believed to be substantially correct. However, the exact locations may vary from that shown.
 - Horizontal units are U.S. Survey Feet.
 - The location of navigation aids are provided by the U.S. Coast Guard or the Corps of Engineers.
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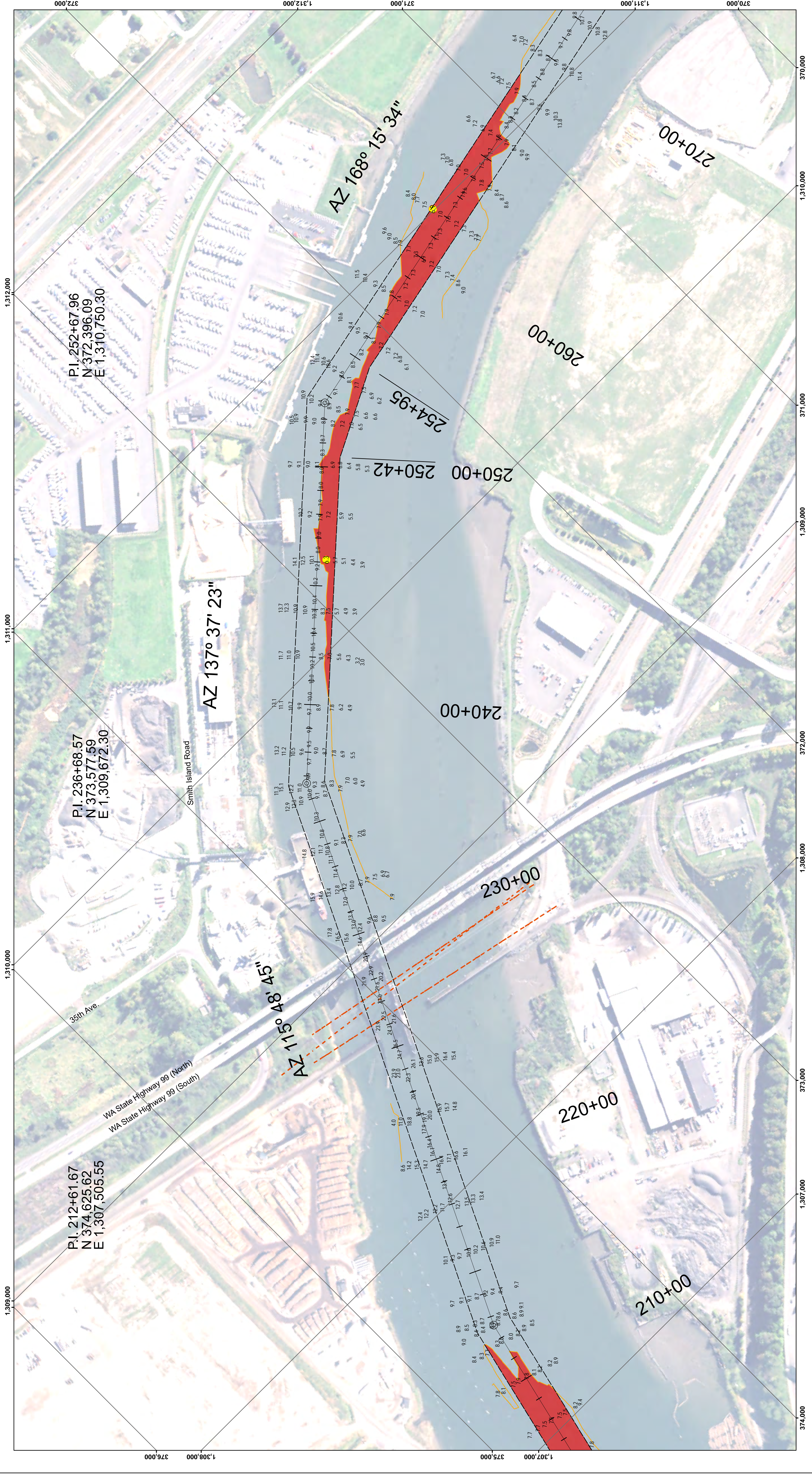
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Surveyed By:	NU & JA
Plotted By:	L.M.R.
Checked By:	
U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT	
PREPARED: JOHN L. PELL PROJECT MANAGER, NAVIGATION SECTION	
SUBMITTED: JOHN A. HICKS CHIEF, NAVIGATION SECTION	

E-2-8-309
SNOHOMISH CHANNEL
EVERETT HARBOR

Sheet
Number
5 of 7

Revision Data
3/16/2019(860)



- NOTES:**
- Sounding and elevations are in feet and refer to the plane of NOS Mean Lower Low Water (MLLW), Epoch 1983-2001. Tide correction Based on Geoid 2012A using Real Time Kinematic (RTK).
 - Horizontal Datum: WGS-84. Projected coordinate system: Lambert Grid Projection, State Plane, Washington North Zone, 4601, Surveyed in North American Datum of 1983/2011, Plotted in North American Datum of 1983/81.
 - Horizontal units are U.S. Survey Feet.
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- NOTES:**
- The channel alignment shown on this map is Alignment 2014
The following equipment was used for this survey:
Ross 835B Singlebeam 3.5 degree, 200 khz transducer.
- Survey Vessel, NWS 1-16-32
The following surveys were used to create this drawing set:
Condition, 8, 9, 10 Jan 2019, 2019ev006

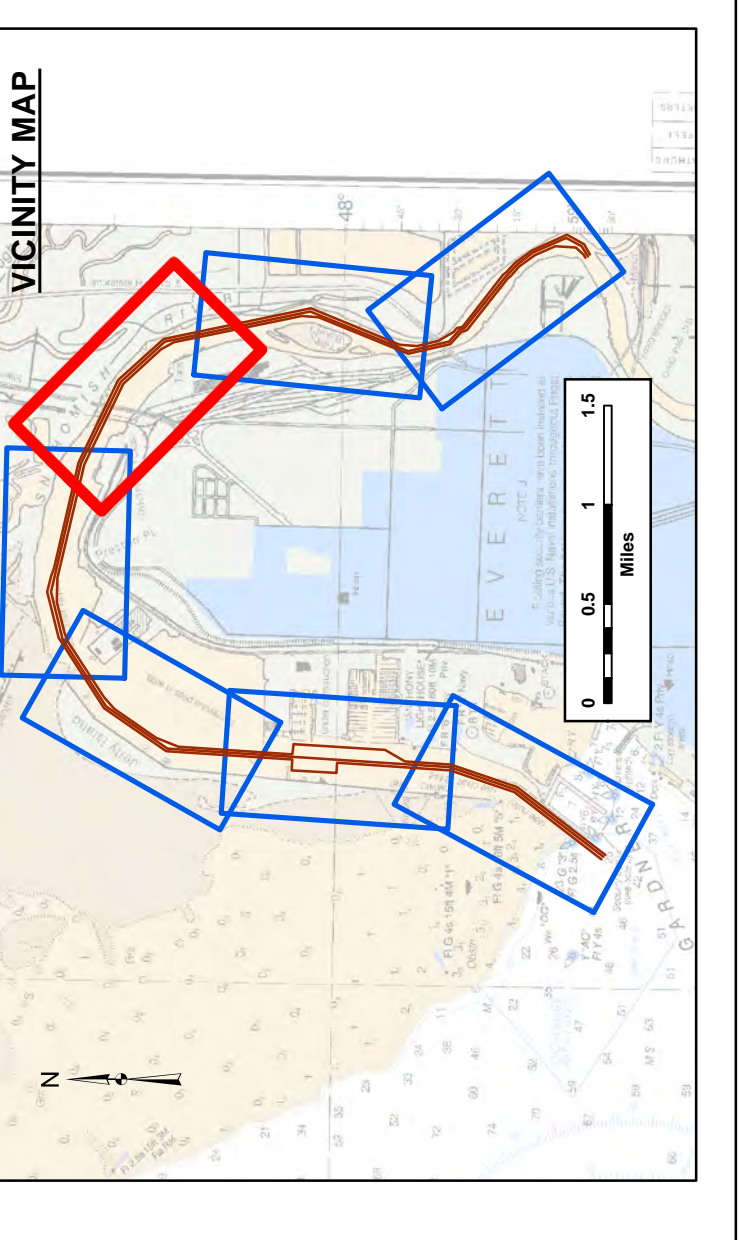
LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Project Depth Contour Line
- Shoaling Area Above Project Depth
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- Wracks-Submerged
- Shoalest Sounding**
- Red Navigation Buoy
- Green Navigation Buoy

Feet
0 200 400 600 800 1,000

** Shoalest sounding per quarter, per each area. Areas are defined as a change in width and/or depth.

ES_01_EHS_20190108_CS_E_2_8_309





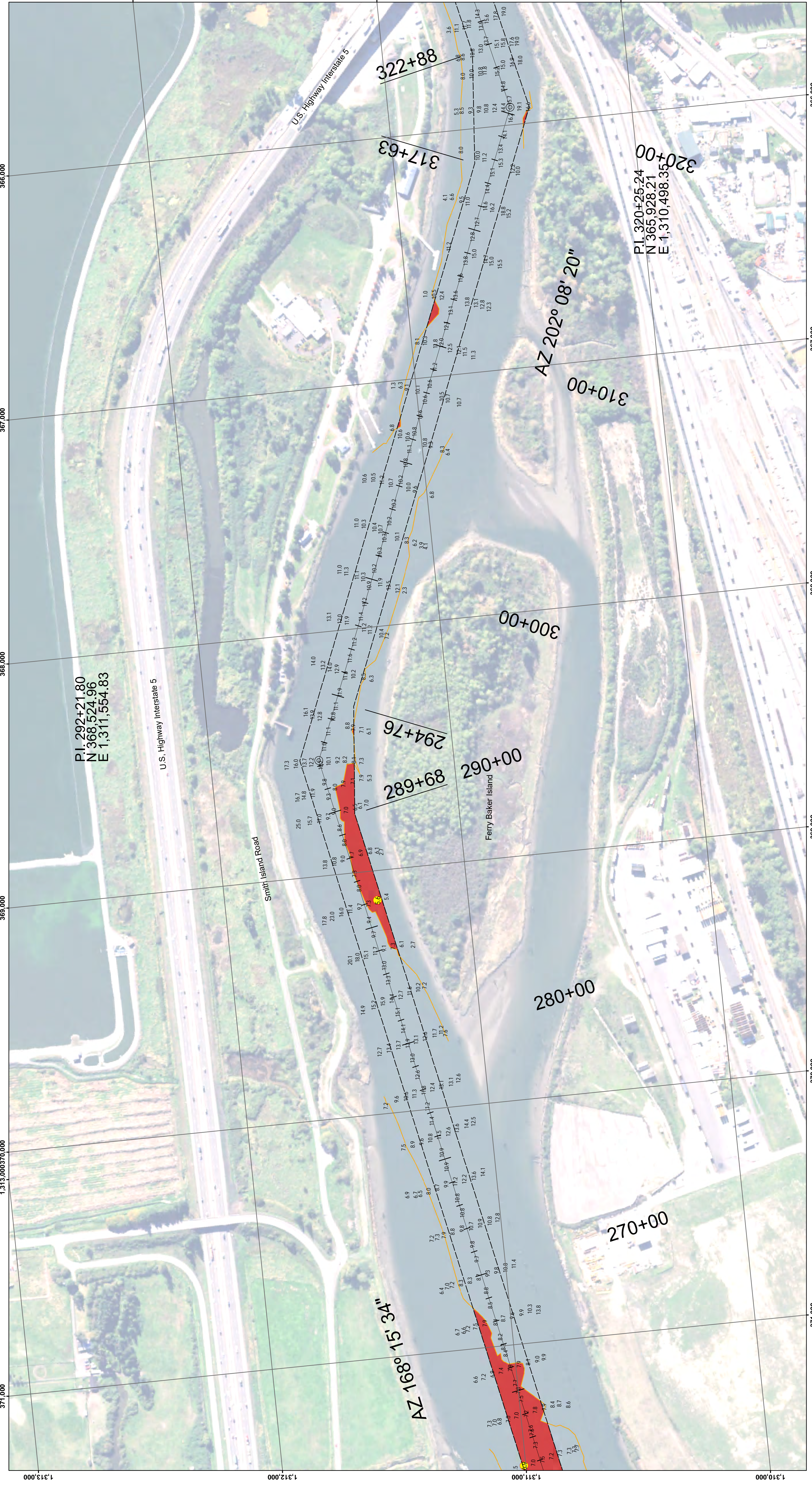
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Surveyed by: NU & JA	PROJECT MANAGER, NAVIGATION SECTION
Plotted by: L.M.R.	CHIEF, NAVIGATION SECTION
Checked by:	SUBMITTED: JOHN A. HICKS

EVERETT HARBOR
SNOHOMISH CHANNEL
E-2-8-309

Sheet Number
6 of 7

Revision Data
 3/16/2019(880)



LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Project Depth Contour Line
- Shoaling Area Above Project Depth
- Shoaling Area
- Placement Area
- Anchorage Area
- Obstruction Point
- Wracks-Submerged
- Shoalest Sounding**
- Red Navigation Buoy
- Green Navigation Buoy

NOTES:

- The channel alignment shown on this map is Alignment 2014. The following equipment was used for this survey:
 Reso 835B Singlebeam 3.5 degree, 200 khz transducer.
 Survey Vessel, NWS 1-16-32
- The following surveys were used to create this drawing set:
 Condition, 8, 9, 10 Jan 2019, 2019ev006

NOTES:

- Sounding and elevations are in feet and refer to the plane of NOS Mean Lower Low Water (MLLW), Epoch 1983-2001. Tide correction Based on Geoid 2012A using Real Time Kinematic (RTK).
- Horizontal Datum: WGS-84. Projected coordinate system: Lambert Grid Projection, State Plane, Washington North Zone, 4601, Surveyed in North American Datum of 1983/2011, Plotted in North American Datum of 1983/81.
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VICINITY MAP

Scale: 0 to 1,000 Feet

** Shoalest sounding per quarter, per each area. Areas are defined as a change in width and/or depth.

ES_01_EHS_20190108_CS_E_2_8_309



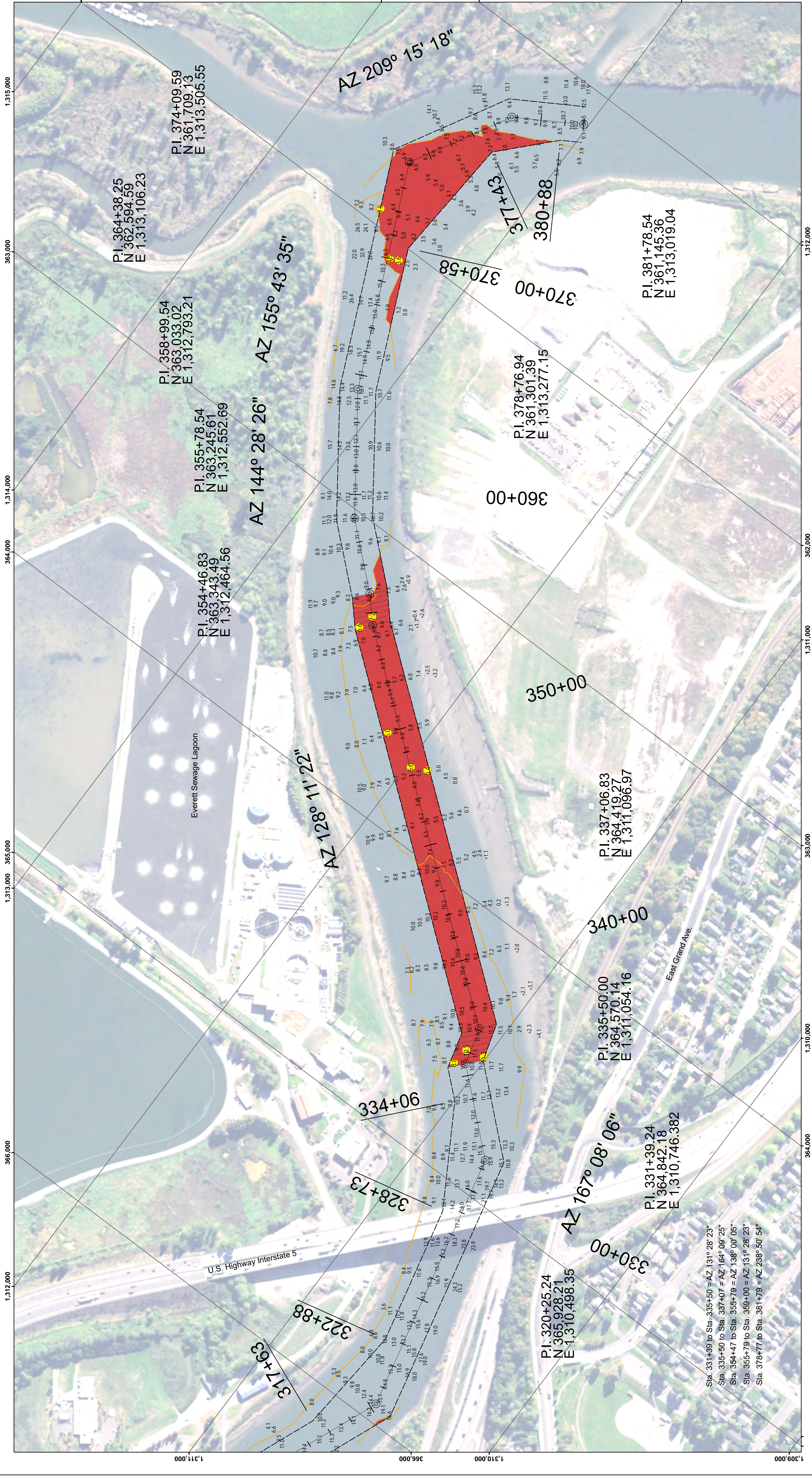
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Surveyed By:	NU & JA
Plotted By:	LAMR
Checked By:	
U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT	
PREPARED: JOHN L. PELL PROJECT MANAGER, NAVIGATION SECTION	
SUBMITTED: JOHN A. HICKS CHIEF, NAVIGATION SECTION	

EVERETT HARBOR
SNOHOMISH CHANNEL
E-2-8-309

Sheet
Number
7 of 7

Revision Data
3/16/2019(880)



NOTES:

- Sounding and elevations are in feet and refer to the plane of NOS Mean Lower Low Water (MLLW), Epoch 1983-2001. Tide correction Based on Geoid 2012A using Real Time Kinematic (RTK).
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NOTES:

The channel alignment shown on this map is Alignment 2014

The following equipment was used for this survey:

Reiss 835B Singlebeam 3.5 degree, 200 kHz transducer.

Survey Vessel, NWS 1-16-32

The following surveys were used to create this drawing set:

Condition, 8, 9, 10 Jan 2019, 2019ev006

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Project Depth Contour Line
- Shoaling Area Above Project Depth
- Shoalest Sounding**
- Red Navigation Buoy
- Green Navigation Buoy
- Obstruction Point
- Wracks-Submerged
- Placement Area
- Anchorage Area

Feet
0 200 400 600 800 1,000

** Shoalest sounding per quarter, per each area. Areas are defined as a change in width and/or depth.

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