

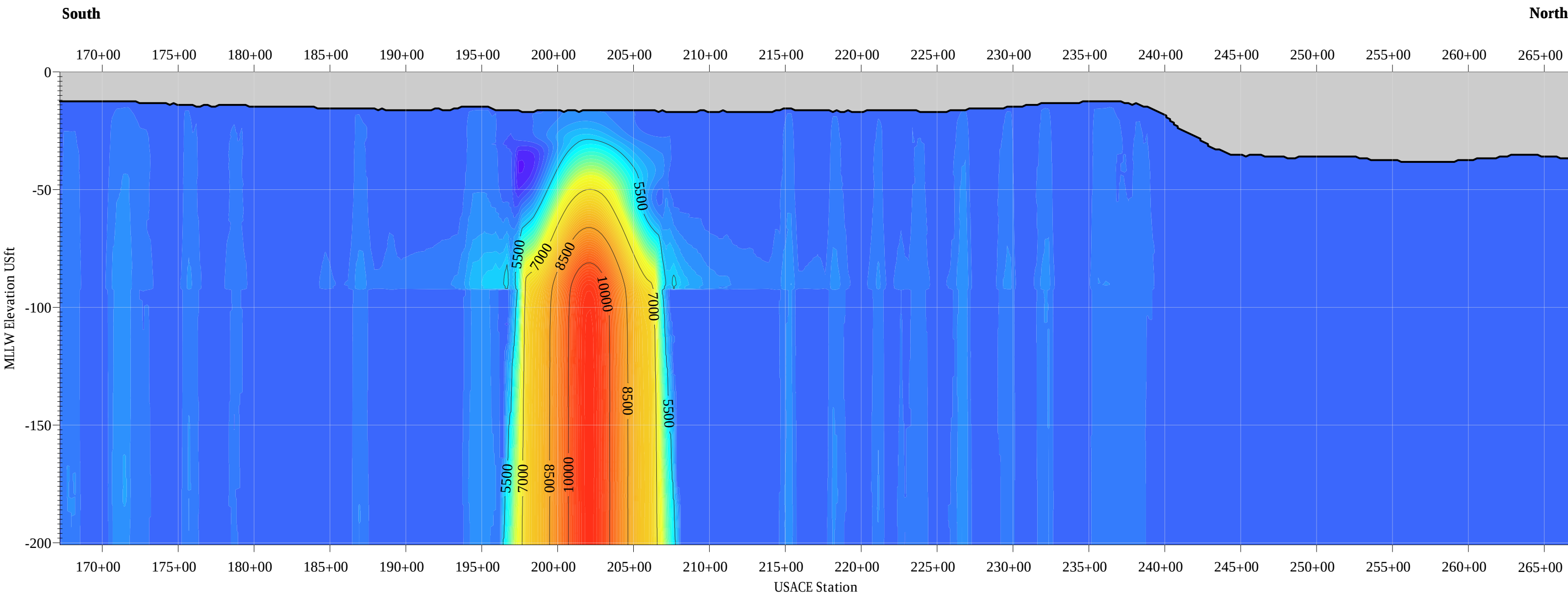
APPENDIX E: Refraction Velocity Profiles

Subsurface Exploration of New Haven Harbor - 2024

R3001_A P-wave Velocity Profile

East of CAD Cell Footprint

Refer to Sheet R-04 for Trackline Relation to Channel Centerline

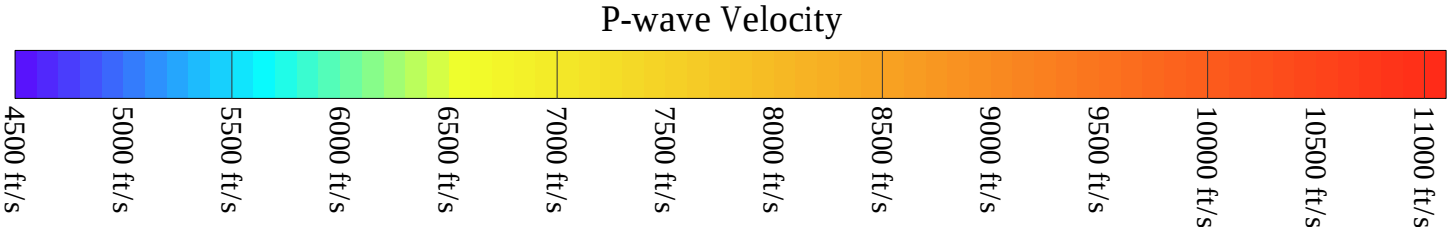


Horizontal scale (ft)

Vertical Exaggeration = 15.5x

- USACE Dec. 2023 Multibeam Survey
- P-wave Velocity Major Contour

- Notes:
- 1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULL. xyz" from USACE e-hydro website.
 - 2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.
 - 4. All background information shown is for reference only.
 - 5. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.

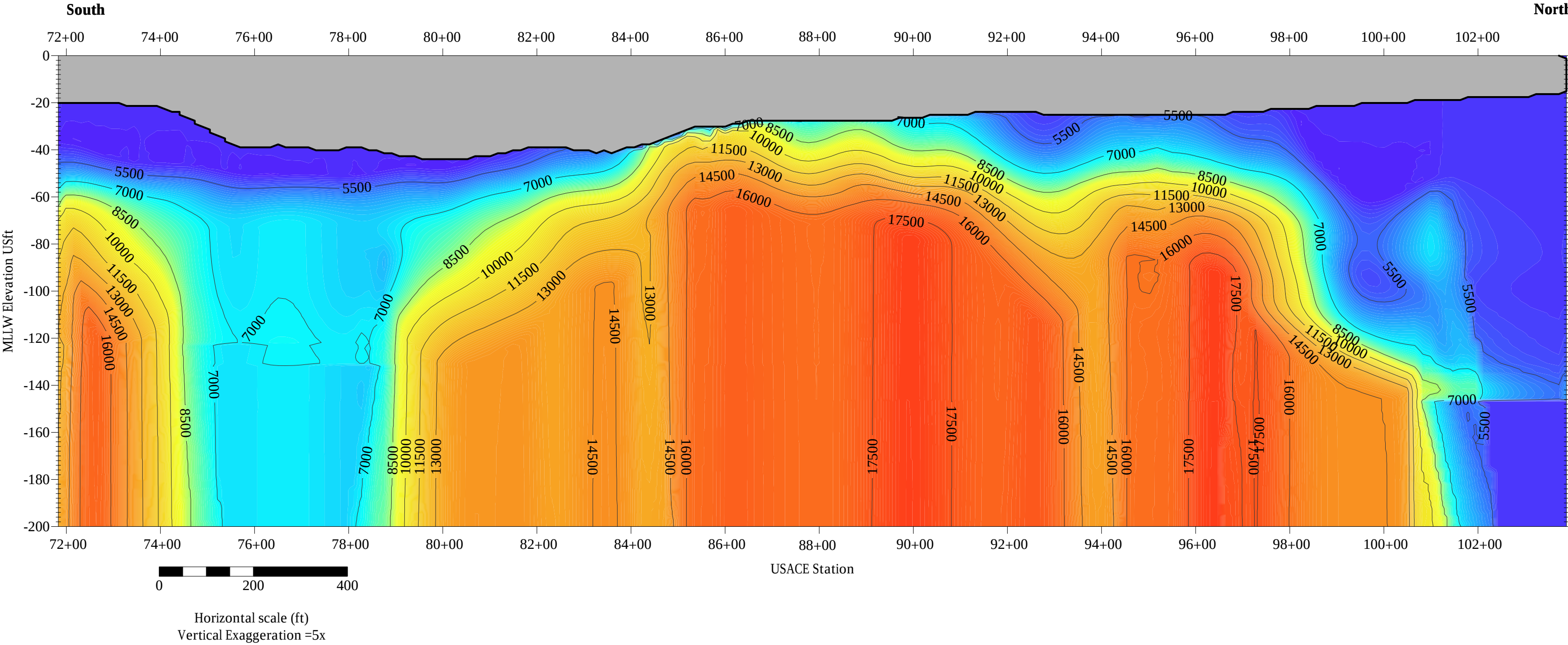


Subsurface Exploration of New Haven Harbor - 2024

R3001_A P-wave Velocity Profile

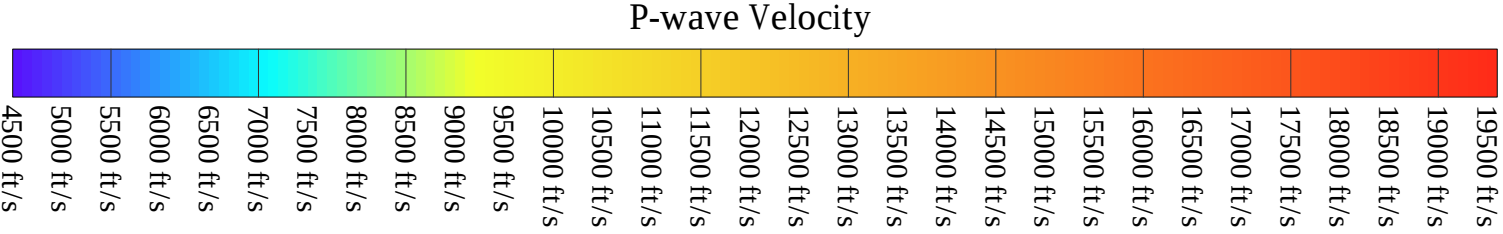
Within Rock Area Footprint

Refer to Sheet R-02 for Trackline Relation to Channel Centerline



USACE Dec. 2023 Multibeam Survey
P-wave Velocity Major Contour

- Notes:**
1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULL. xyz" from USACE e-hydro website.
 2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.
 4. All background information shown is for reference only.
 5. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.

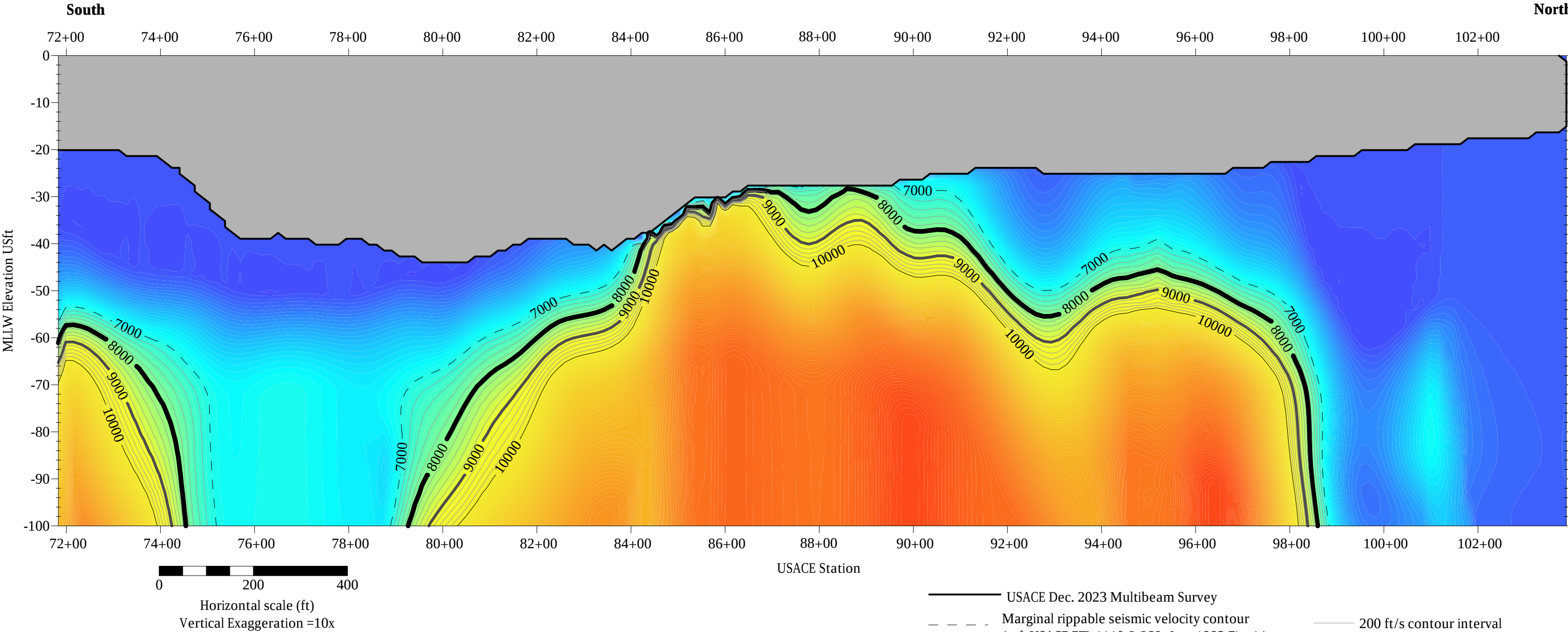


Subsurface Exploration of New Haven Harbor - 2024

R3001_A P-wave Velocity Profile

Within Rock Area Footprint

Refer to Sheet R-02 for Trackline Relation to Channel Centerline



Notes:

1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULL. xyz" from USACE e-hydro website.

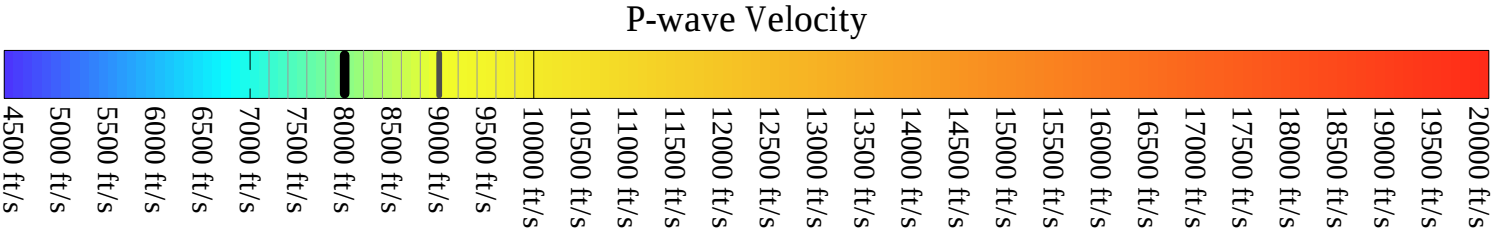
2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.

3. All background information shown is for reference only.

4. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.

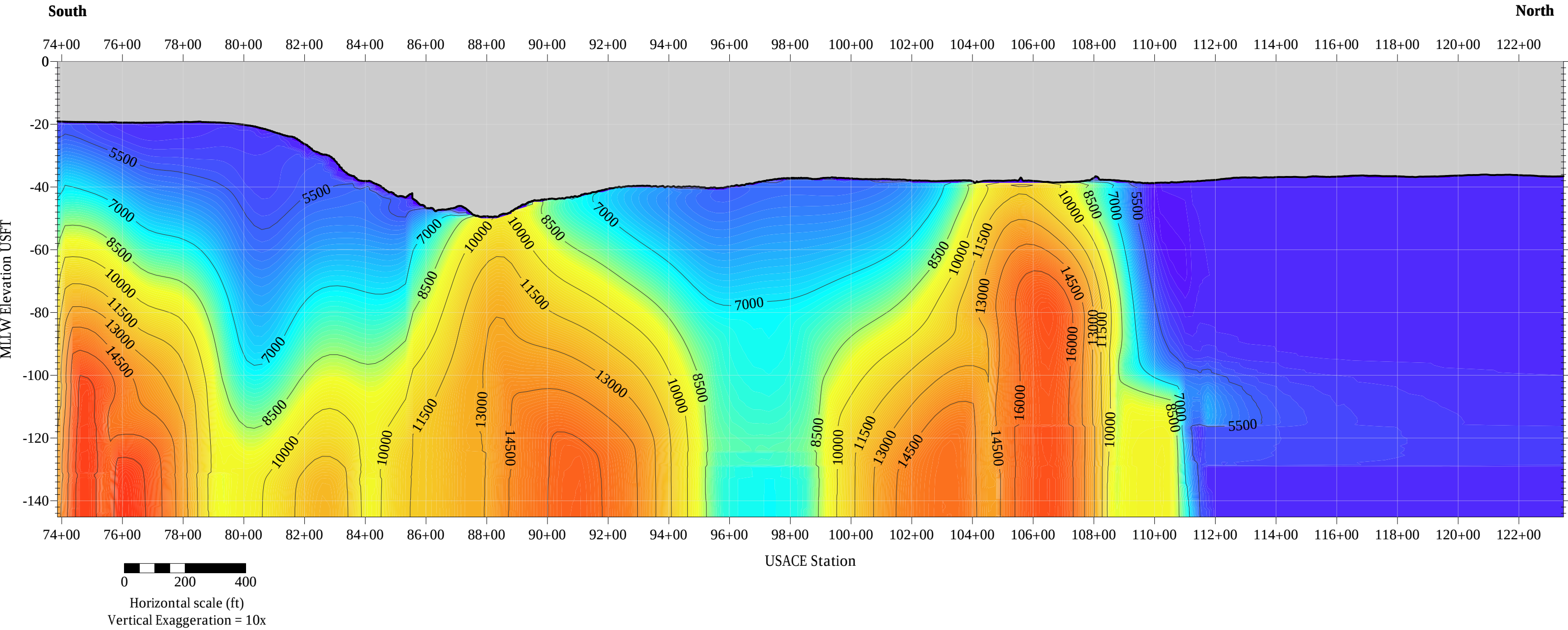
5. Seismic Velocity Rippability Contours interpreted from USACE ETL 1110-2-282 "Rock Mass Classification Data Requirements for Rippability" June 30th, 1983 Fig. 1-"D8L Ripper Performance Related to Estimated Seismic Wave Velocity. Multi or Single Shank No. 8 Ripper from Caterpillar Peformance Handbook, 1982."

However, this information presented does not equate to production or cost effective method for this particular project. Please refer to "Subsurface Exploration Survey, New Haven Harbor, Combined Geophysical and Geotechnical Report of Explorations" Section 7- "Rock Dredging Opinions" for a comprehensive discussion on means and methods of rock removal.



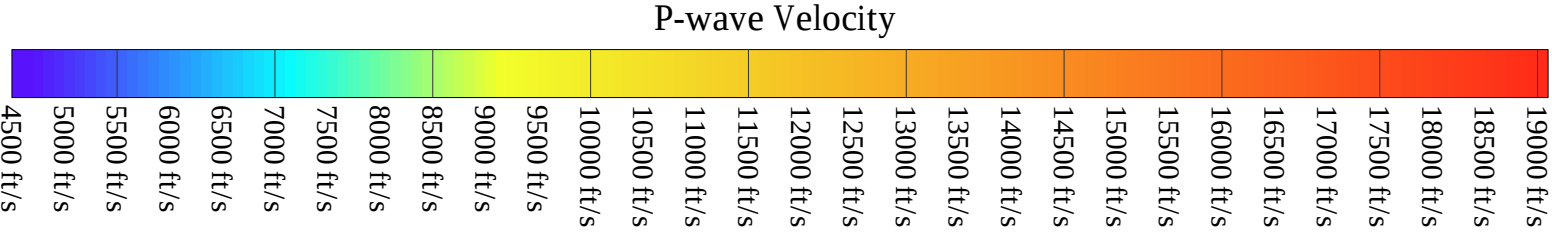
Subsurface Exploration of New Haven Harbor - 2024

R3003 P-wave Velocity Profile
Refer to Sheets R-02 and R-03 for Trackline Relation to Channel Centerline



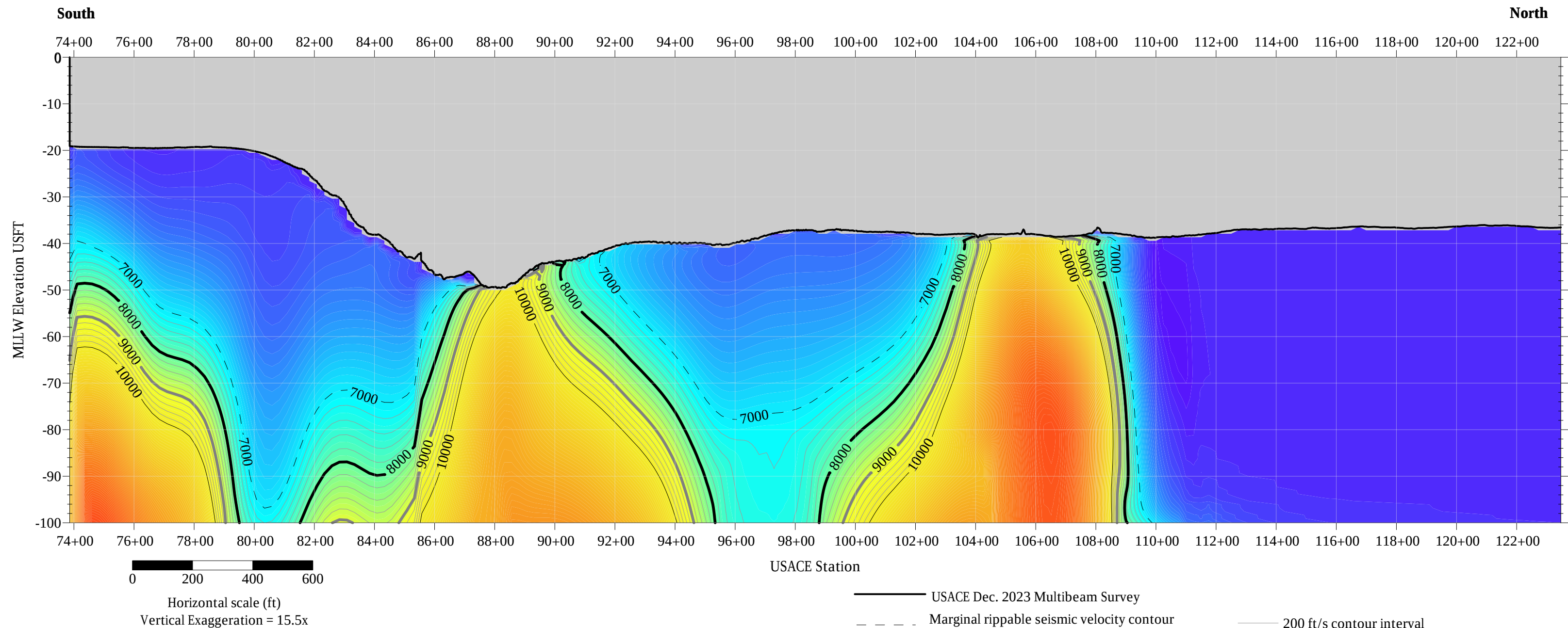
USACE Dec. 2023 Multibeam Survey
P-wave Velocity Major Contour

- Notes:**
- 1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULLL.xyz" from USACE e-hydro website.
 - 2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.
 - 4. All background information shown is for reference only.
 - 5. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.



Subsurface Exploration of New Haven Harbor - 2024

R3003 P-wave Velocity Profile with Rippability Contours Refer to Sheet R-02 and R-03 for Trackline Relation to Channel Centerline



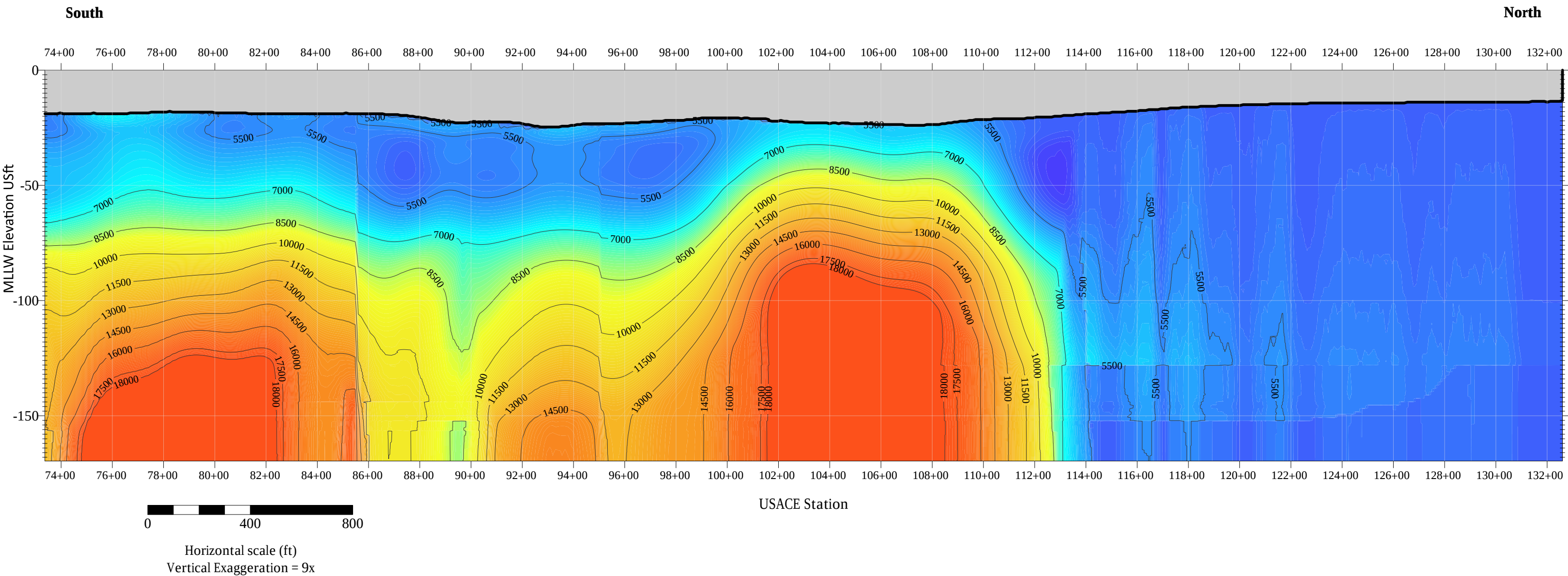
Notes:

1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULL. xyz" from USACE e-hydro website.
2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.
3. All background information shown is for reference only.
4. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.
5. Seismic Velocity Rippability Contours interpreted from USACE ETL 1110-2-282 "Rock Mass Classification Data Requirements for Rippability" June 30th, 1983 Fig. 1-"D8L Ripper Performance Related to Estimated Seismic Wave Velocity. Multi or Single Shank No. 8 Ripper from Caterpillar Peformance Handbook, 1982."

However, this information presented does not equate to production or cost effective method for this particular project. Please refer to "Subsurface Exploration Survey, New Haven Harbor, Combined Geophysical and Geotechnical Report of Explorations" Section 7- "Rock Dredging Opinions" for a comprehensive discussion on means and methods of rock removal.

Subsurface Exploration of New Haven Harbor - 2024

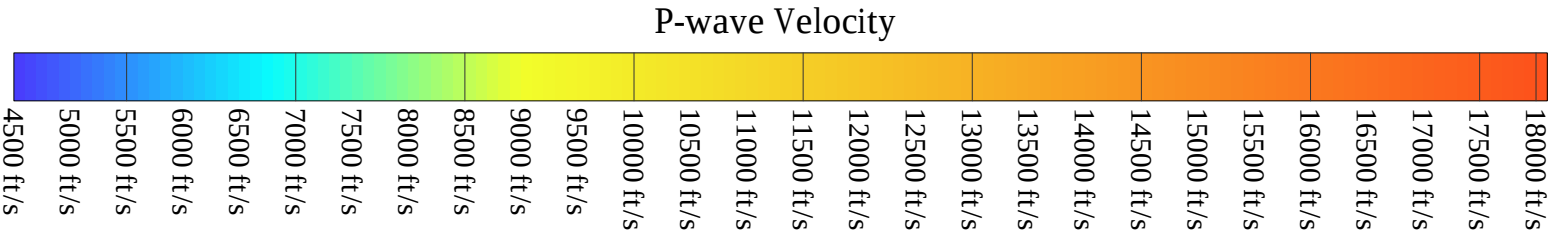
R3005 P-wave Velocity Profile
Refer to Sheets R-02 and R-03 for Trackline Relation to Channel Centerline



USACE Dec. 2023 Multibeam Survey
P-wave Velocity Major Contour

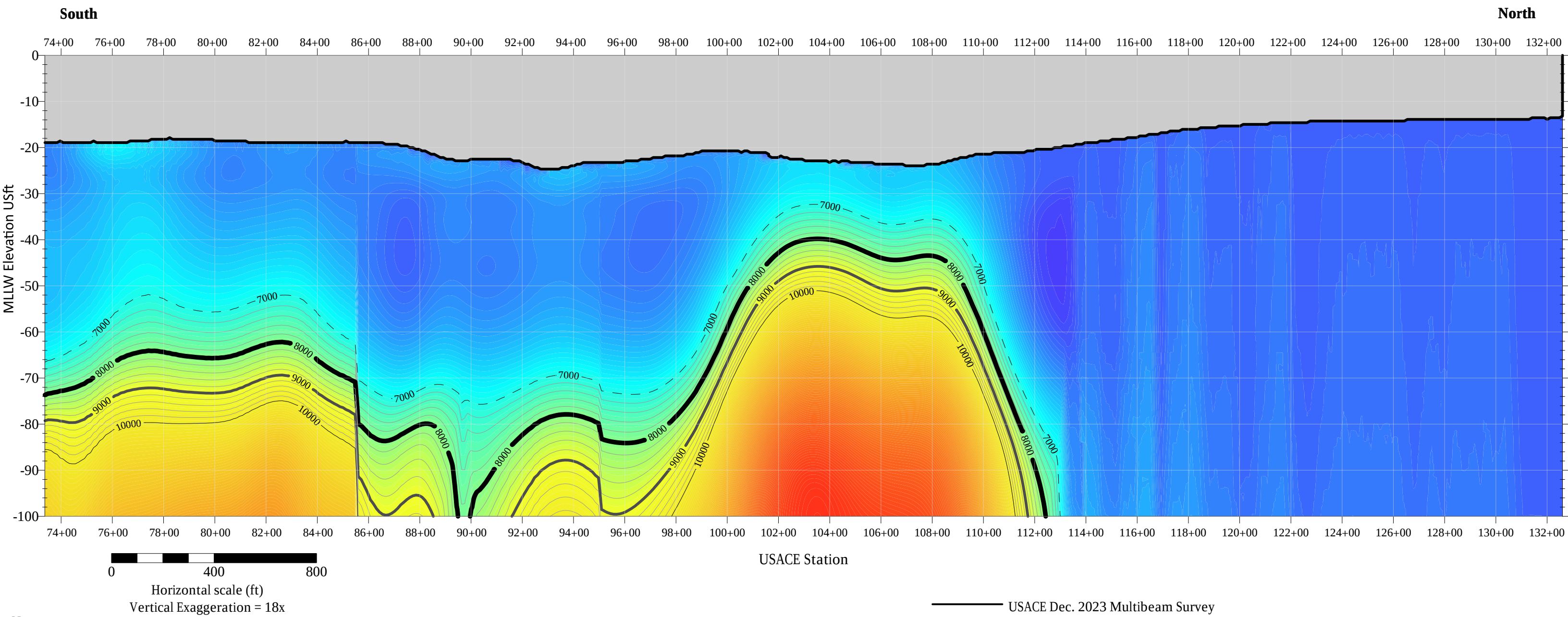
Notes:

1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULL.xyz" from USACE e-hydro website.
2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.
4. All background information shown is for reference only.
5. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.



Subsurface Exploration of New Haven Harbor - 2024

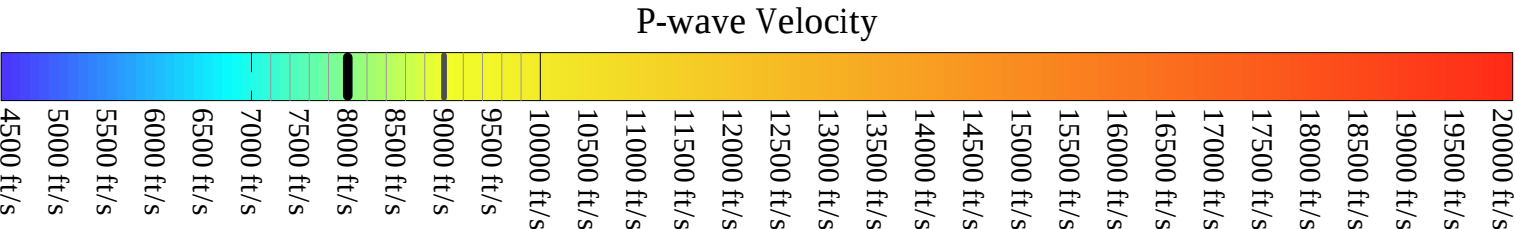
R3005 P-wave Velocity Profile with Rippability Contours
Refer to Sheet R-02 and R-03 for Trackline Relation to Channel Centerline



Notes:

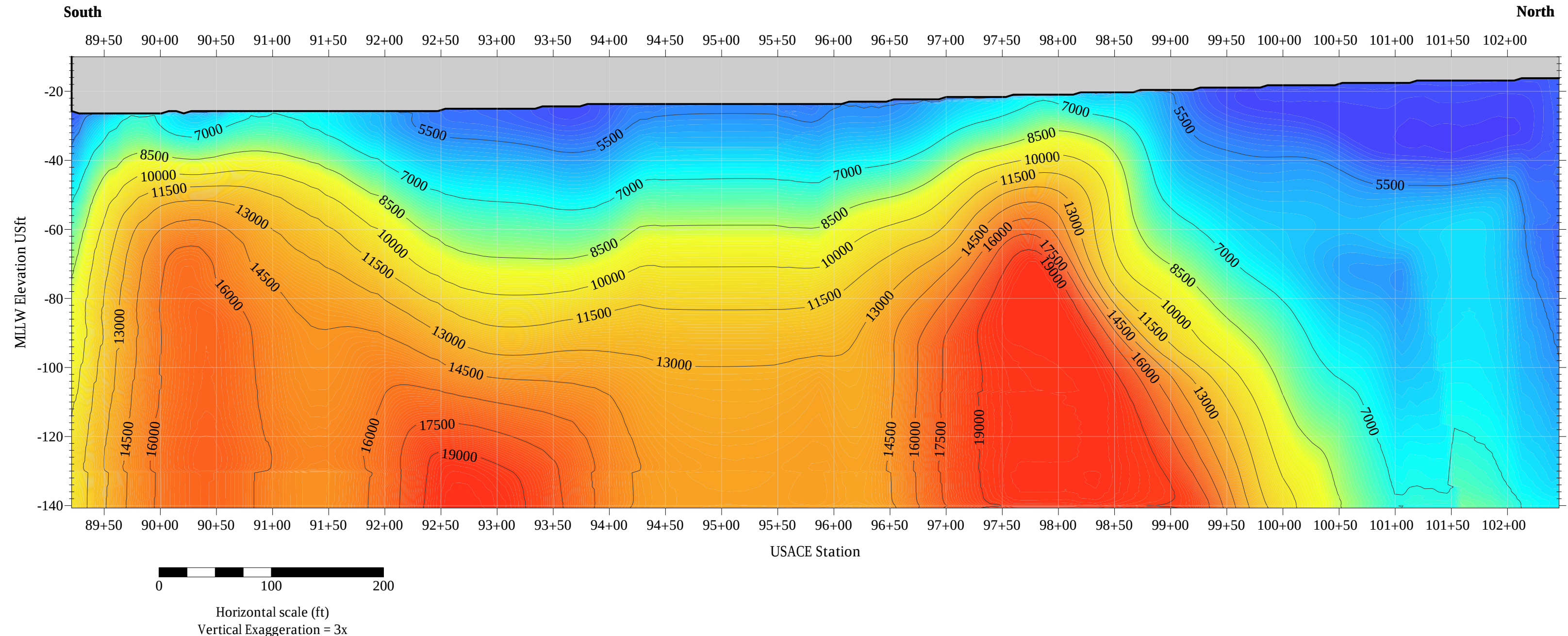
- 1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULL.xyz" from USACE e-hydro website.
 - 2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.
 - 3. All background information shown is for reference only.
 - 4. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.
 - 5. Seismic Velocity Rippability Contours interpreted from USACE ETL 1110-2-282 "Rock Mass Classification Data Requirements for Rippability" June 30th, 1983 Fig. 1-"D8L Ripper Performance Related to Estimated Seismic Wave Velocity. Multi or Single Shank No. 8 Ripper from Caterpillar Performance Handbook, 1982."
- However, this information presented does not equate to production or cost effective method for this particular project. Please refer to "Subsurface Exploration Survey, New Haven Harbor, Combined Geophysical and Geotechnical Report of Explorations" Section 13- "Rock Dredging Opinions" for a comprehensive discussion on means and methods of rock removal.

- USACE Dec. 2023 Multibeam Survey
- Marginal rippable seismic velocity contour (ref. USACE ETL 1110-2-282, Jun. 1983, Fig. 1.)
- Non-rippable seismic velocity contour for Granite (ref. USACE ETL 1110-2-282, Jun. 1983, Fig. 1.)
- Non-rippable seismic velocity contour for Schist (ref. USACE ETL 1110-2-282, Jun. 1983, Fig. 1)
- 200 ft/s contour interval



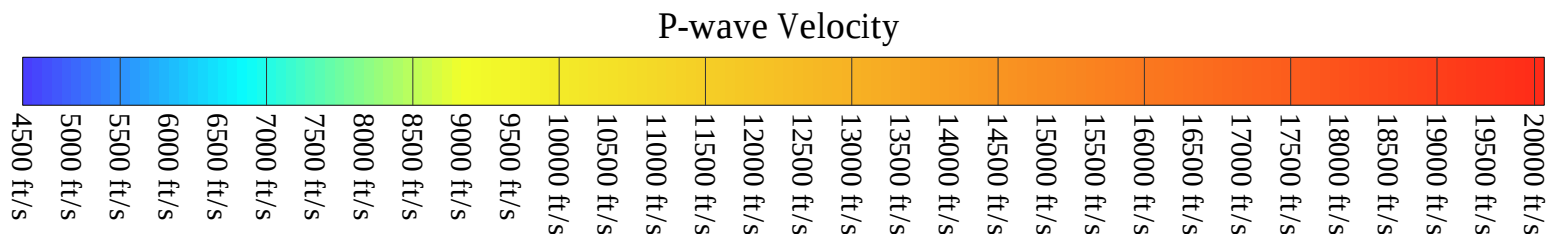
Subsurface Exploration of New Haven Harbor - 2024

R4006 P-Wave Velocity Profile Refer to Sheets R-02 and R-03 for Trackline Relation to Channel Centerline



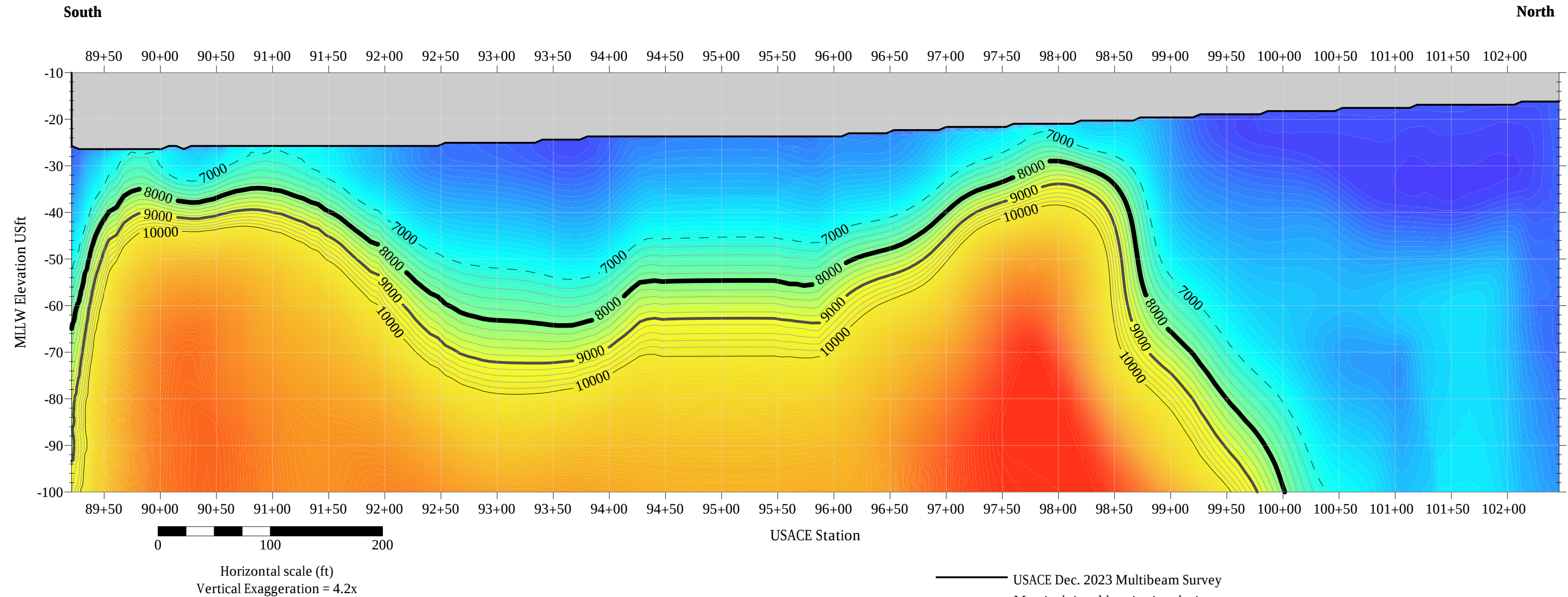
— USACE Dec. 2023 Multibeam Survey
— P-wave Velocity Major Contour

- Notes:**
- 1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULLL.xyz" from USACE e-hydro website.
 - 2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.
 - 4. All background information shown is for reference only.
 - 5. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.



Subsurface Exploration of New Haven Harbor - 2024

R4006 P-Wave Velocity Profile with Rippability Contours Refer to Sheets R-02 and R-03 for Trackline Relation to Channel Centerline



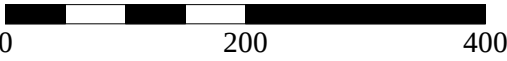
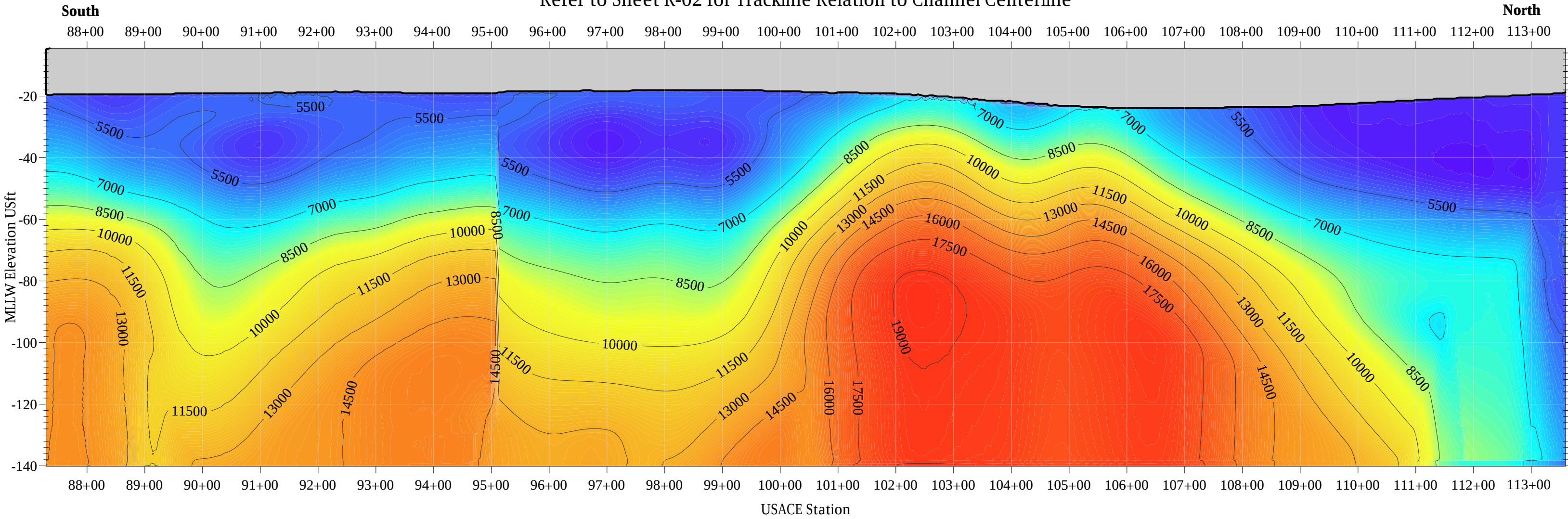
Notes:

1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULL. xyz" from USACE e-hydro website.
2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.
3. All background information shown is for reference only.
4. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.
5. Seismic Velocity Rippability Contours interpreted from USACE ETL 1110-2-282 "Rock Mass Classification Data Requirements for Rippability" June 30th, 1983 Fig. 1-"D8L Ripper Performance Related to Estimated Seismic Wave Velocity. Multi or Single Shank No. 8 Ripper from Caterpillar Peformance Handbook, 1982." However, this information presented does not equate to production or cost effective method for this particular project. Please refer to "Subsurface Exploration Survey, New Haven Harbor, Combined Geophysical and Geotechnical Report of Explorations" Section 7- "Rock Dredging Opinions" for a comprehensive discussion on means and methods of rock removal.

Subsurface Exploration of New Haven Harbor - 2024

R4007 P-wave Velocity Profile

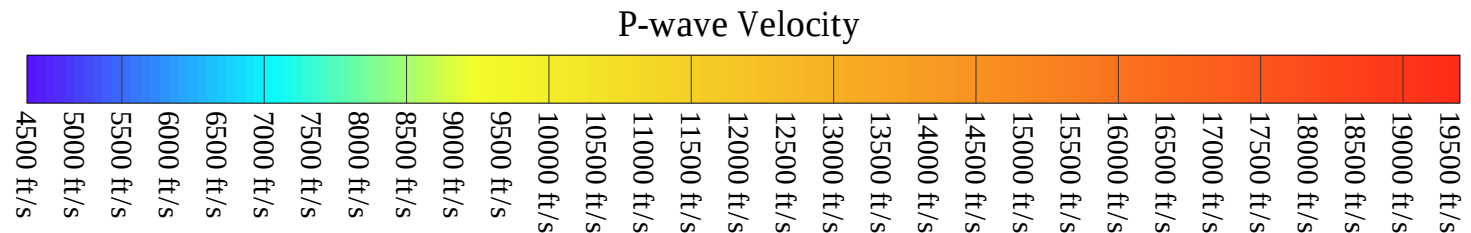
Refer to Sheet R-02 for Trackline Relation to Channel Centerline



Horizontal scale (ft)
Vertical Exaggeration = 5.3x

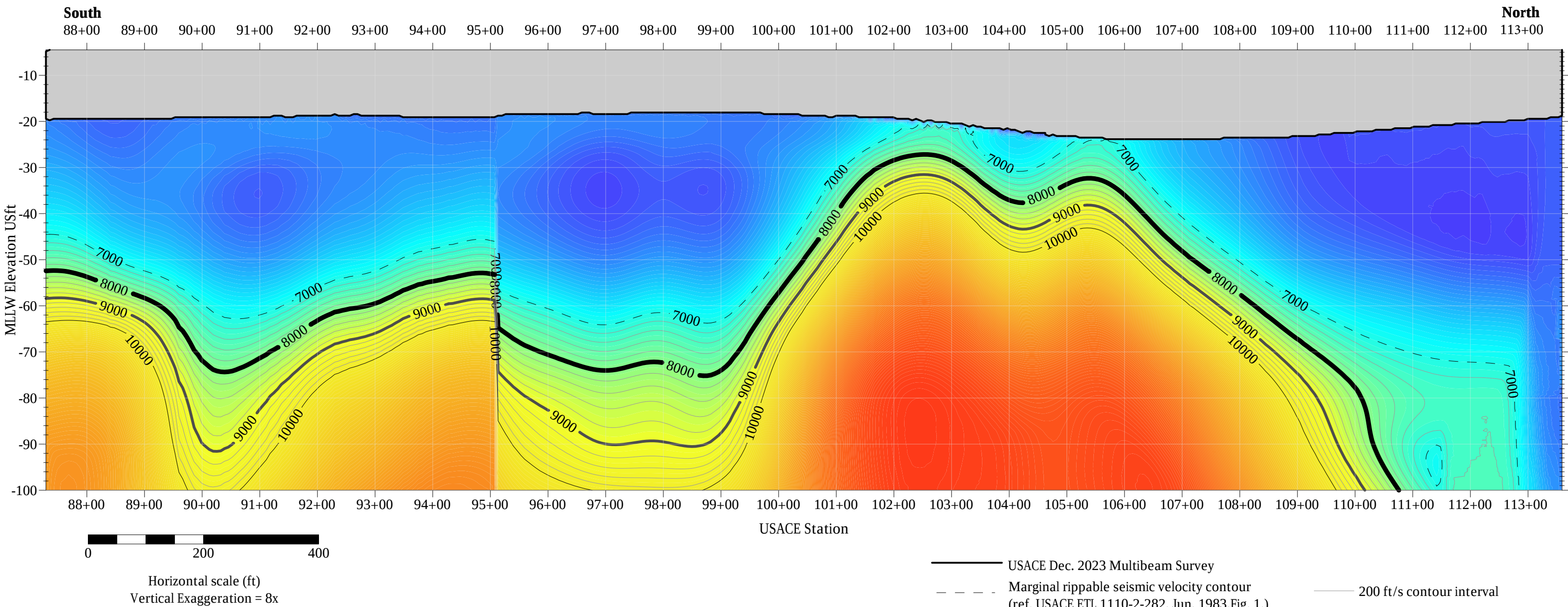
- USACE Dec. 2023 Multibeam Survey
- P-wave Velocity Major Contour

- Notes:**
- Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULL.xyz" from USACE e-hydro website.
 - Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.
 - All background information shown is for reference only.
 - These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.



Subsurface Exploration of New Haven Harbor - 2024

R4007 P-wave Velocity Profile with Rippability Contours
Refer to Sheet R-02 for Trackline Relation to Channel Centerline



Notes:

1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULLL. xyz" from USACE e-hydro website.

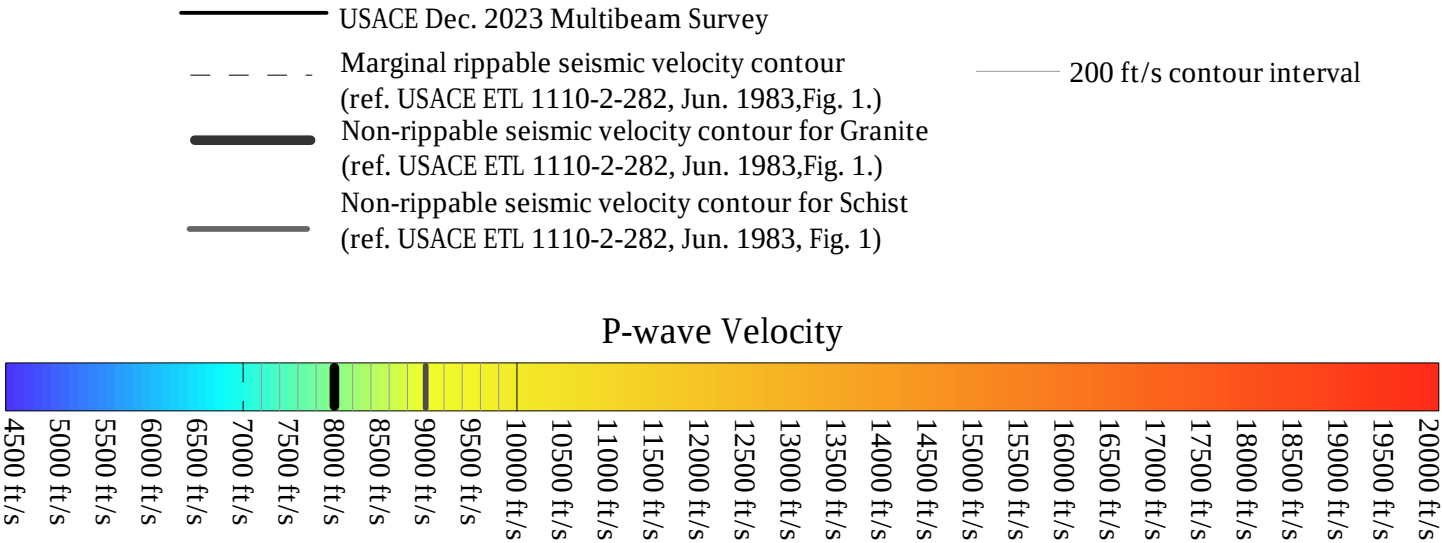
2. Seismic velocity shown is from GBA/S THE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.

3. All background information shown is for reference only.

4. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.

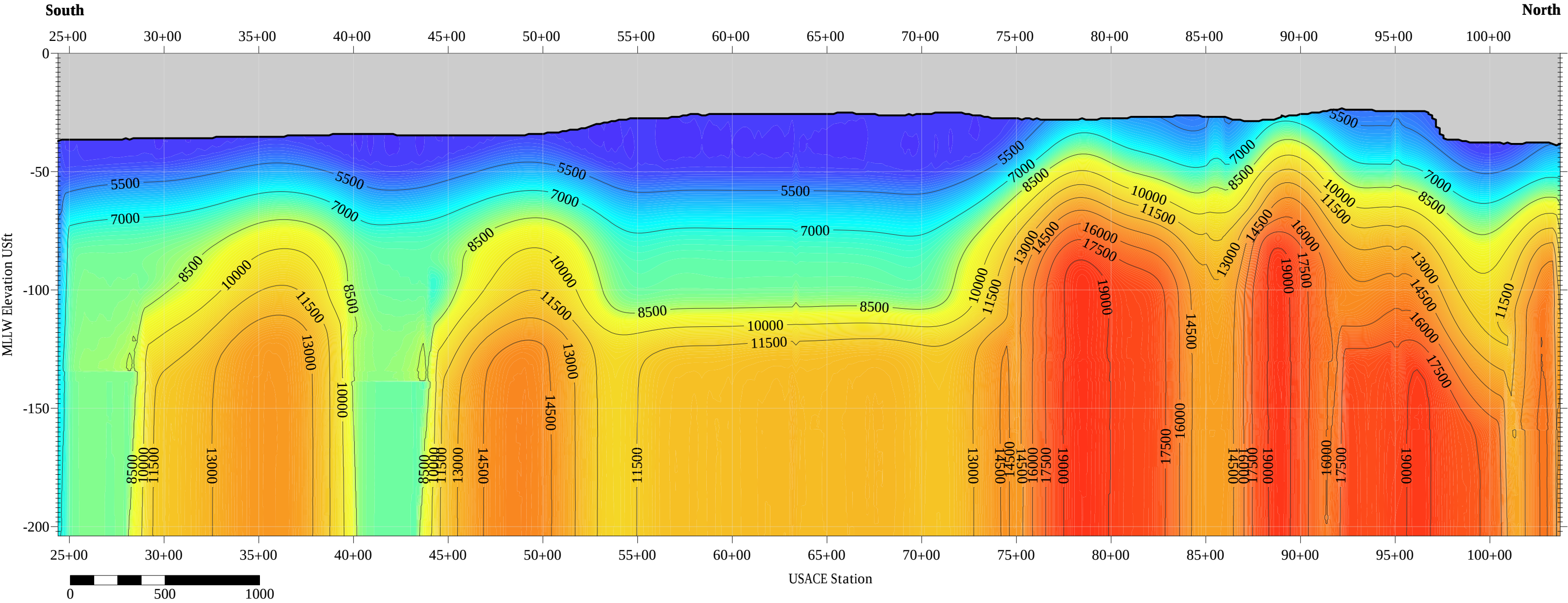
5. Seismic Velocity Rippability Contours interpreted from USACE ETL 1110-2-282 "Rock Mass Classification Data Requirements for Rippability" June 30th, 1983 Fig. 1-"D8L Ripper Performance Related to Estimated Seismic Wave Velocity. Multi or Single Shank No. 8 Ripper from Caterpillar Peformance Handbook, 1982."

However, this information presented does not equate to production or cost effective method for this particular project. Please refer to "Subsurface Exploration Survey, New Haven Harbor, Combined Geophysical and Geotechnical Report of Explorations" Section 7- "Rock Dredging Opinions" for a comprehensive discussion on means and methods of rock removal.



Subsurface Exploration of New Haven Harbor - 2024

R5001_A P-wave Velocity Profile Refer to Sheets R-01 and R-02 for Trackline Relation to Channel Centerline



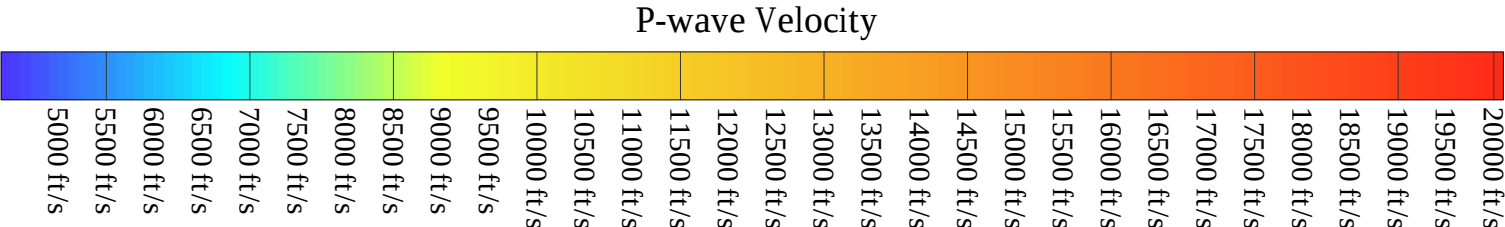
0 500 1000

Horizontal scale (ft)

Vertical Exaggeration = 12.5x

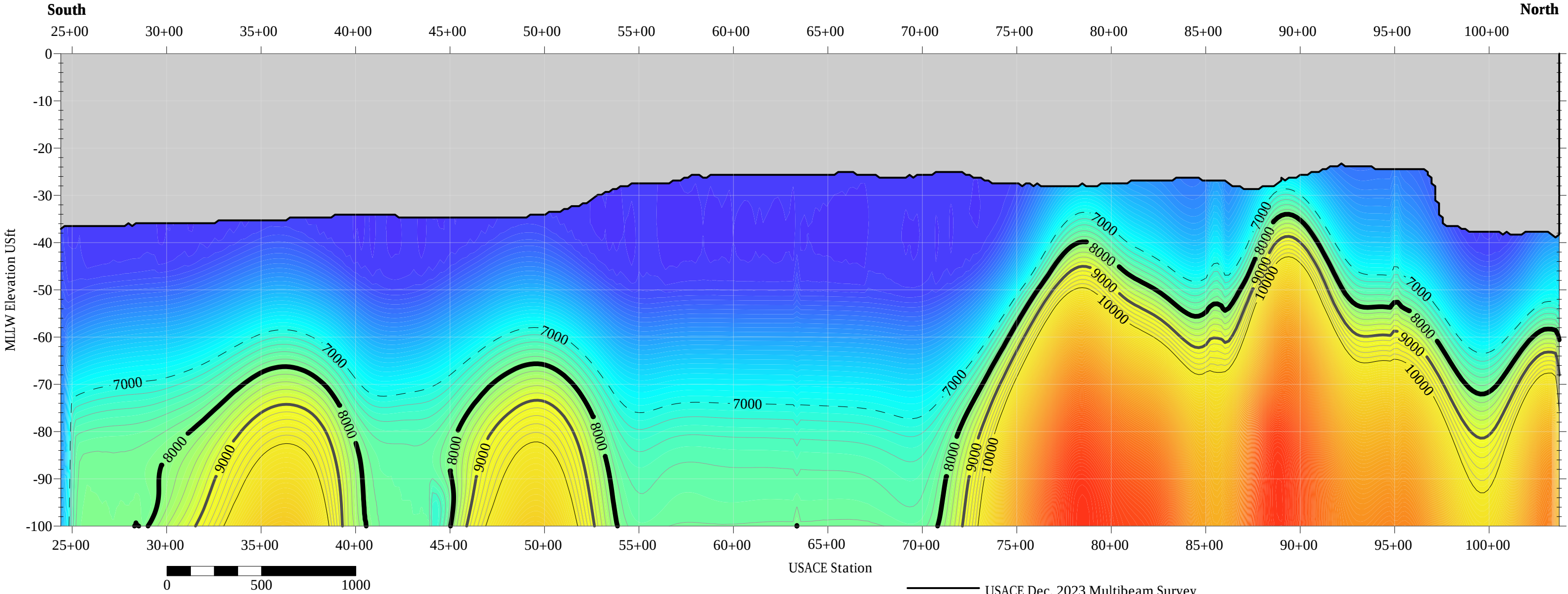
— USACE Dec. 2023 Multibeam Survey
— P-wave Velocity Major Contour

- Notes:**
1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULL.xyz" from USACE e-hydro website.
 2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.
 4. All background information shown is for reference only.
 5. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.



Subsurface Exploration of New Haven Harbor - 2024

R5001_A P-wave Velocity Profile with Rippability Contours Refer to Sheets R-01 and R-02 for Trackline Relation to Channel Centerline



Notes:

1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULL. xyz" from USACE e-hydro website.

2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.

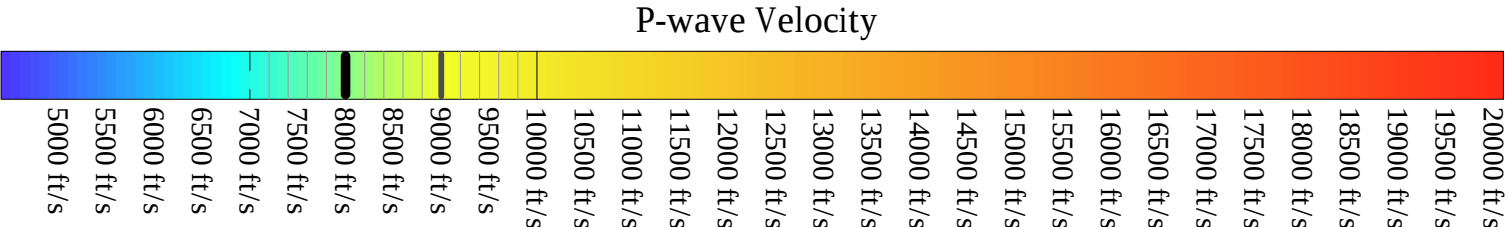
3. All background information shown is for reference only.

4. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.

5. Seismic Velocity Rippability Contours interpreted from USACE ETL 1110-2-282 "Rock Mass Classification Data Requirements for Rippability" June 30th, 1983 Fig. 1-"D8L Ripper Performance Related to Estimated Seismic Wave Velocity. Multi or Single Shank No. 8 Ripper from Caterpillar Performance Handbook, 1982."

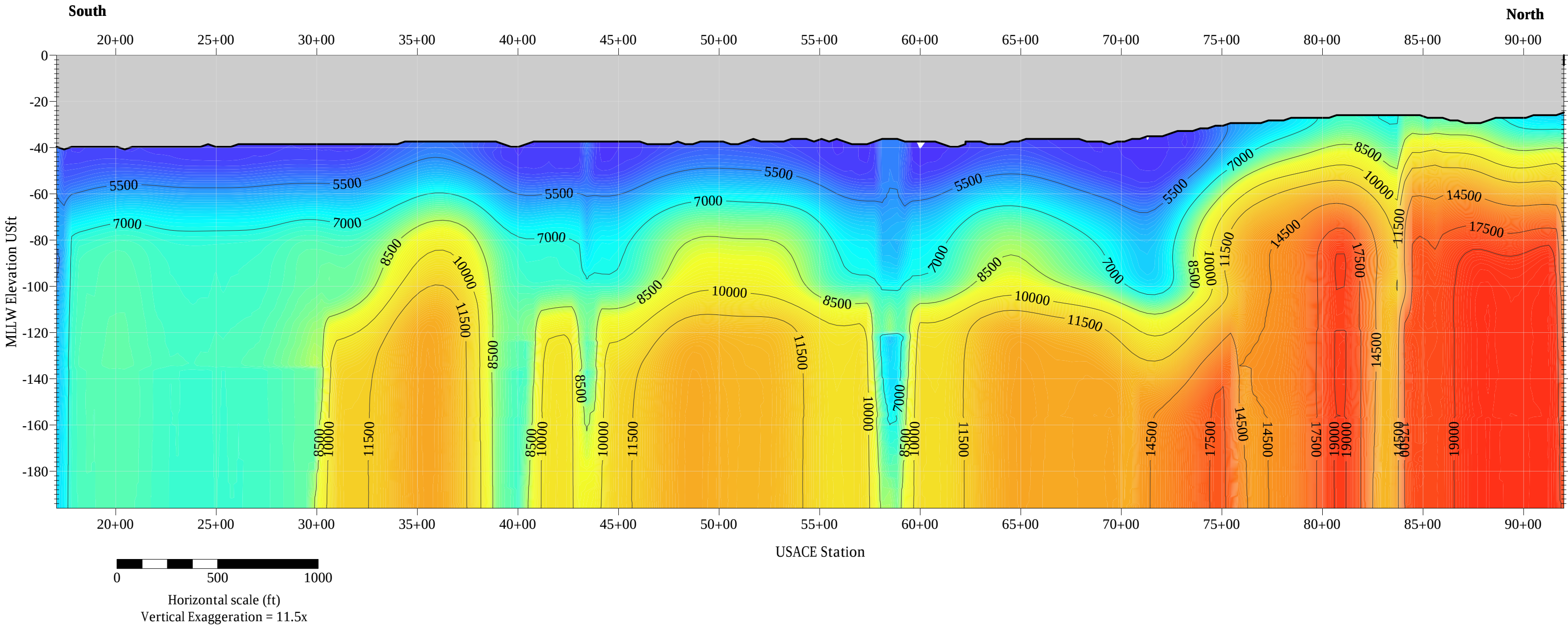
However, this information presented does not equate to production or cost effective method for this particular project. Please refer to "Subsurface Exploration Survey, New Haven Harbor, Combined Geophysical and Geotechnical Report of Explorations" Section 7- "Rock Dredging Opinions" for a comprehensive discussion on means and methods of rock removal.

- USACE Dec. 2023 Multibeam Survey
- Marginal rippable seismic velocity contour (ref. USACE ETL 1110-2-282, Jun. 1983, Fig. 1.)
- Non-rippable seismic velocity contour for Granite (ref. USACE ETL 1110-2-282, Jun. 1983, Fig. 1.)
- Non-rippable seismic velocity contour for Schist (ref. USACE ETL 1110-2-282, Jun. 1983, Fig. 1)
- 200 ft/s contour interval



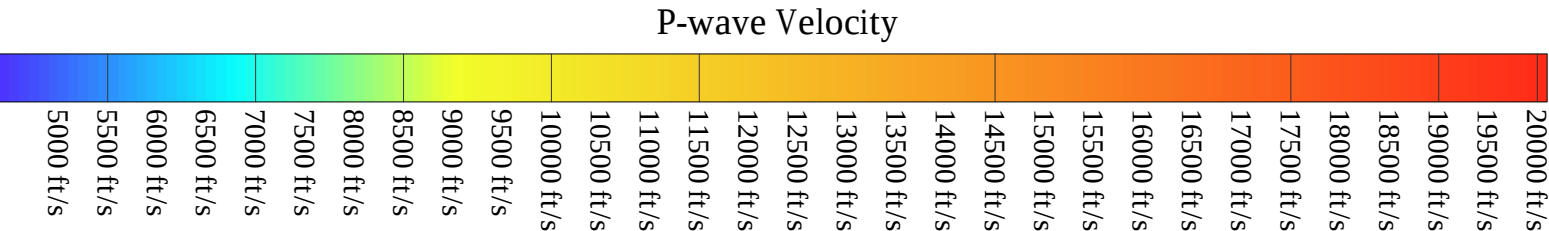
Subsurface Exploration of New Haven Harbor - 2024

R5003 P-wave Velocity Profile Refer to Sheets R-01 and R-02 for Trackline Relation to Channel Centerline



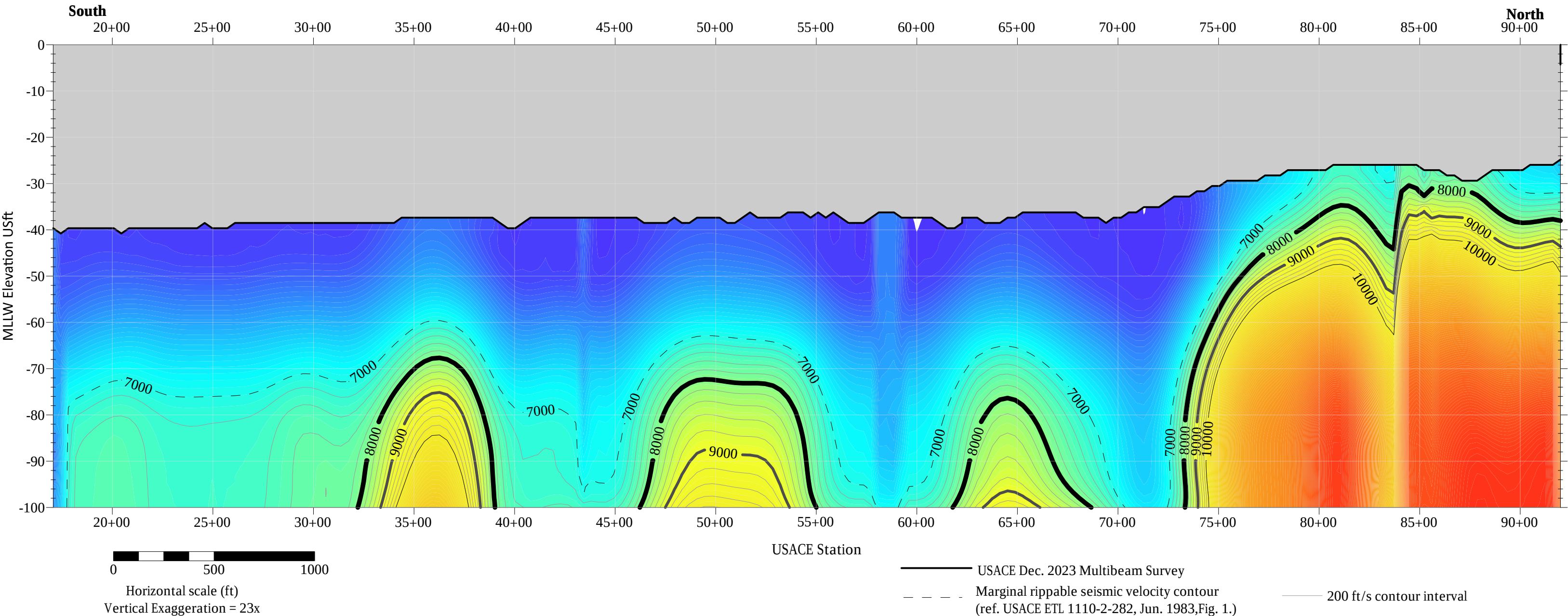
USACE Dec. 2023 Multibeam Survey
P-wave Velocity Major Contour

- Notes:**
1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULL.xyz" from USACE e-hydro website.
 2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.
 4. All background information shown is for reference only.
 5. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.



Subsurface Exploration of New Haven Harbor - 2024

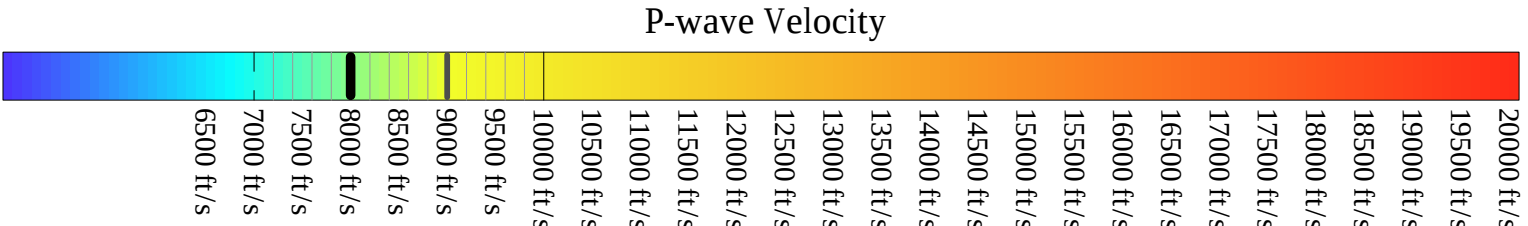
R5003 P-wave Velocity Profile with Rippability Contours Refer to Sheets R-01 and R-02 for Trackline Relation to Channel Centerline



Notes:

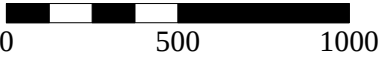
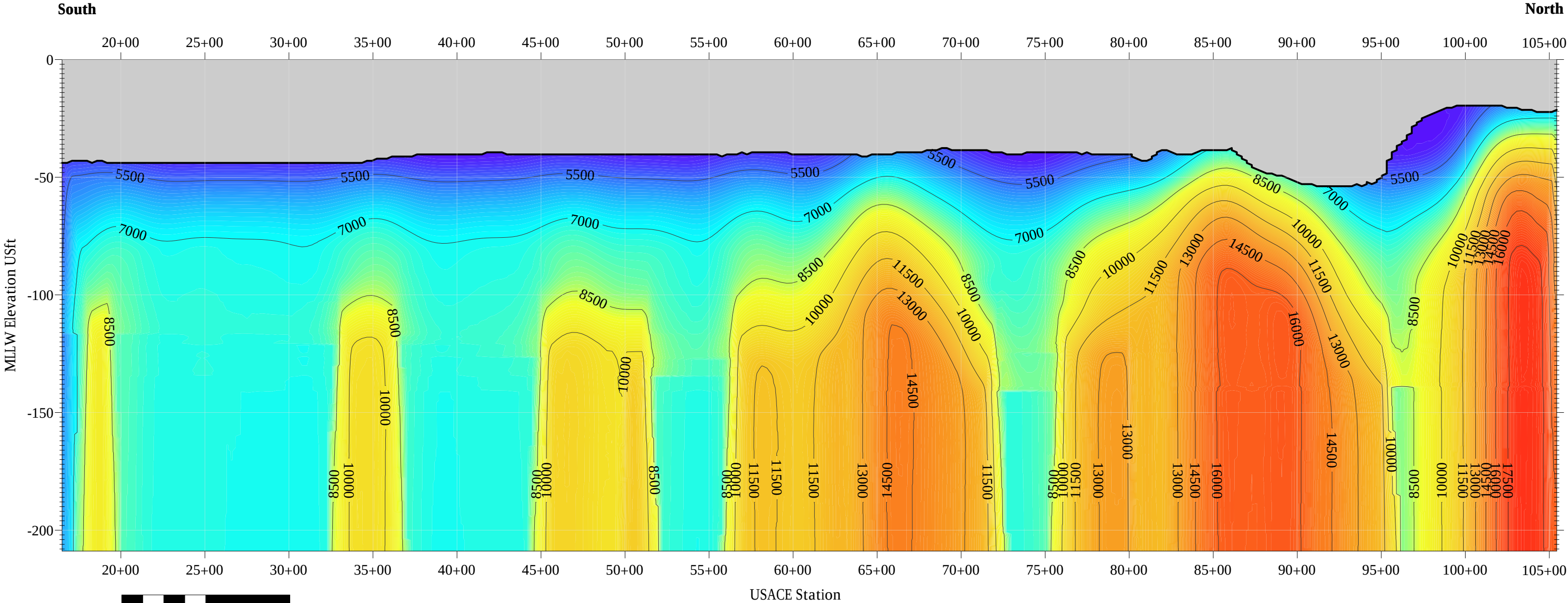
1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULL. xyz" from USACE e-hydro website.
2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.
3. All background information shown is for reference only.
4. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.
5. Seismic Velocity Rippability Contours interpreted from USACE ETL 1110-2-282 "Rock Mass Classification Data Requirements for Rippability" June 30th, 1983 Fig. 1-"D8L Ripper Performance Related to Estimated Seismic Wave Velocity. Multi or Single Shank No. 8 Ripper from Caterpillar Peformance Handbook, 1982."

However, this information presented does not equate to production or cost effective method for this particular project. Please refer to "Subsurface Exploration Survey, New Haven Harbor, Combined Geophysical and Geotechnical Report of Explorations" Section 7- "Rock Dredging Opinions" for a comprehensive discussion on means and methods of rock removal.



Subsurface Exploration of New Haven Harbor - 2024

R5004 P-wave Velocity Profile
Refer to Sheets R-01 and R-02 for Trackline Relation to Channel Centerline

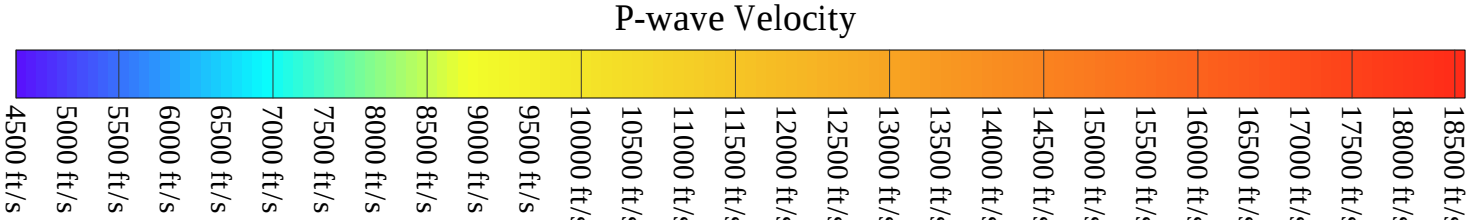


Horizontal scale (ft)

Vertical Exaggeration = 14x

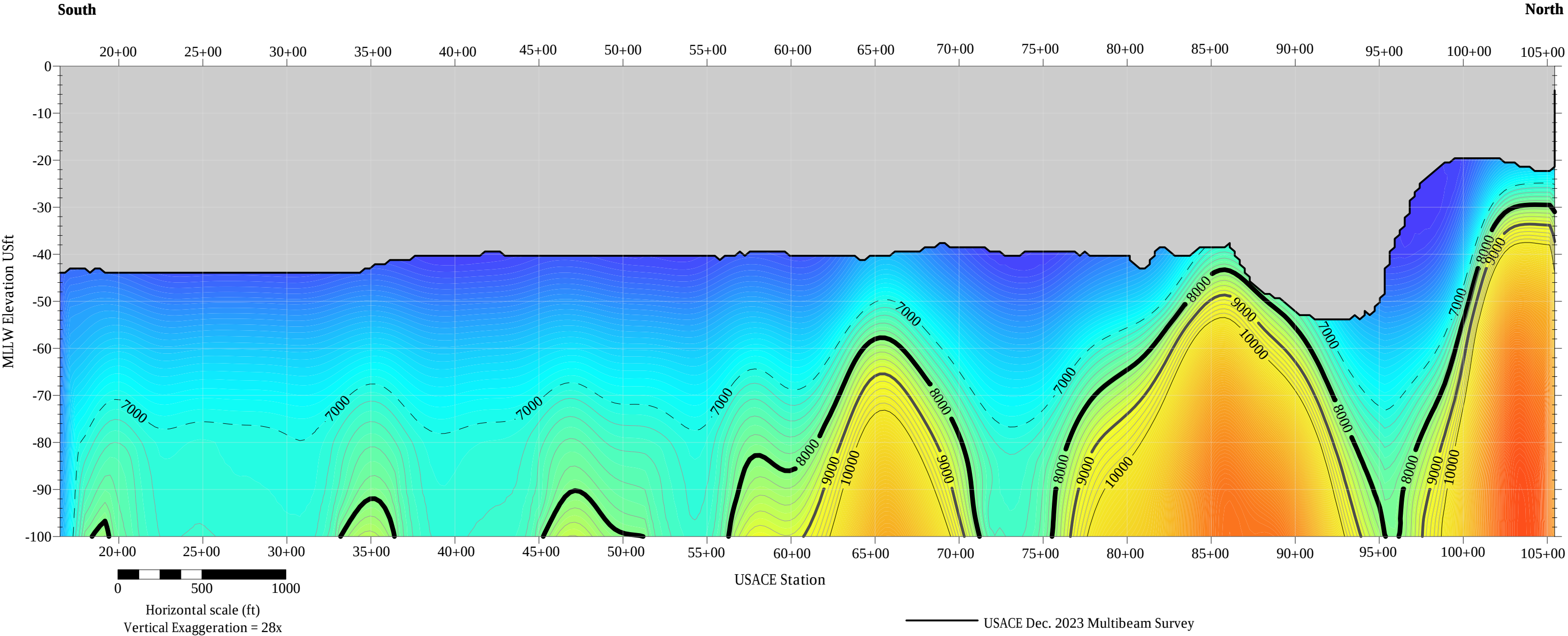
- USACE Dec. 2023 Multibeam Survey
- P-wave Velocity Major Contour

- Notes:**
- 1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULL. xyz" from USACE e-hydro website.
 - 2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.
 - 4. All background information shown is for reference only.
 - 5. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.



Subsurface Exploration of New Haven Harbor - 2024

R5004 P-wave Velocity Profile with Rippability Contours
Refer to Sheets R-01 and R-02 for Trackline Relation to Channel Centerline



Notes:

1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULL. xyz" from USACE e-hydro website.

2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.

3. All background information shown is for reference only.

4. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.

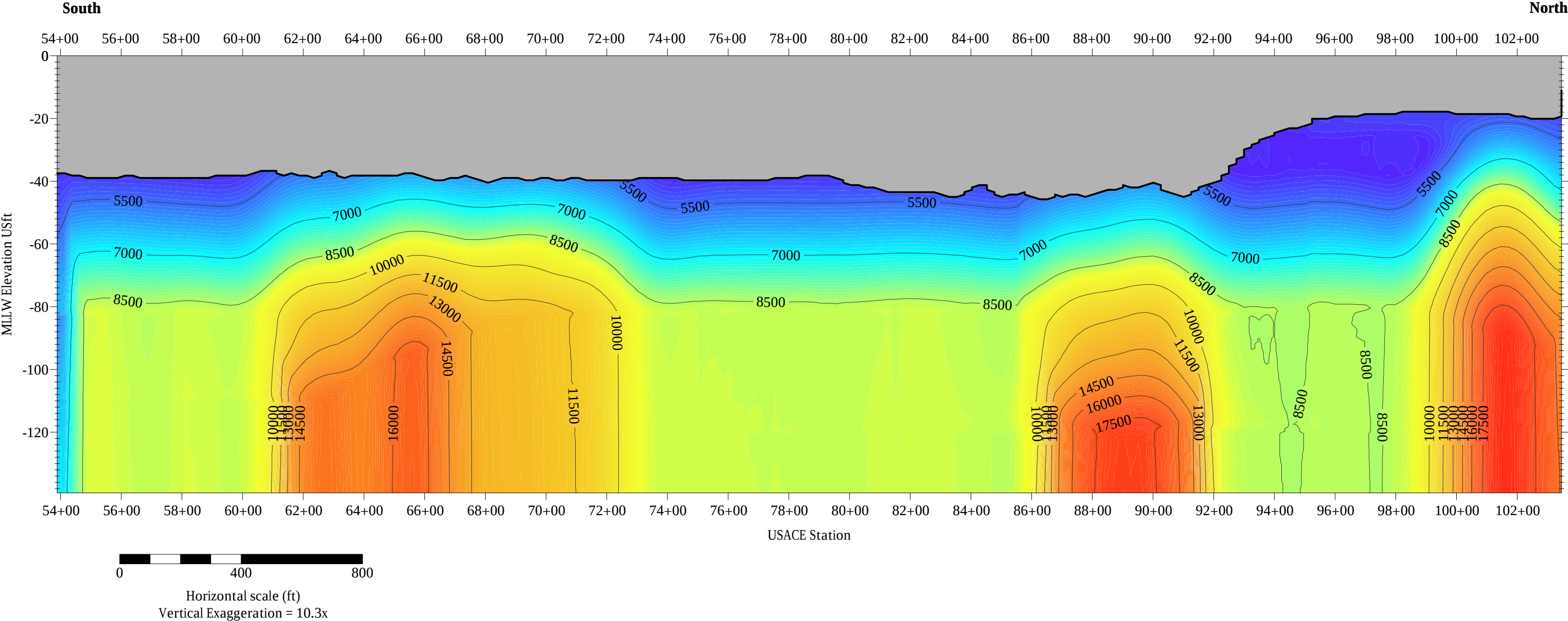
5. Seismic Velocity Rippability Contours interpreted from USACE ETL 1110-2-282 "Rock Mass Classification Data Requirements for Rippability" June 30th, 1983 Fig. 1-"D8L Ripper Performance Related to Estimated Seismic Wave Velocity. Multi or Single Shank No. 8 Ripper from Caterpillar Performance Handbook, 1982."

However, this information presented does not equate to production or cost effective method for this particular project. Please refer to "Subsurface Exploration Survey, New Haven Harbor, Combined Geophysical and Geotechnical Report of Explorations" Section 7- "Rock Dredging Opinions" for a comprehensive discussion on means and methods of rock removal.

Subsurface Exploration of New Haven Harbor - 2024

R5005 P-wave Velocity Profile

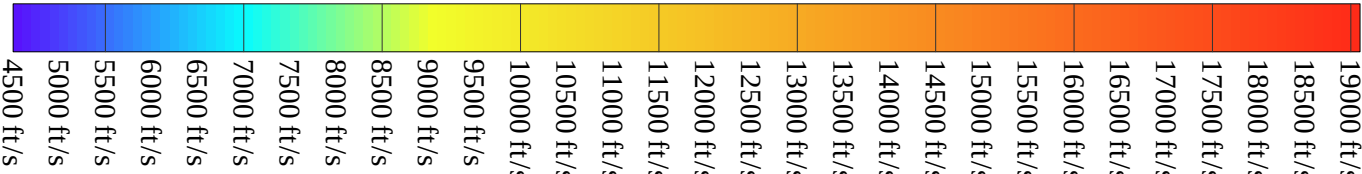
Refer to Sheets R-01 and R-02 for Trackline Relation to Channel Centerline



USACE Dec. 2023 Multibeam Survey

P-wave Velocity Major Contour

P-wave Velocity

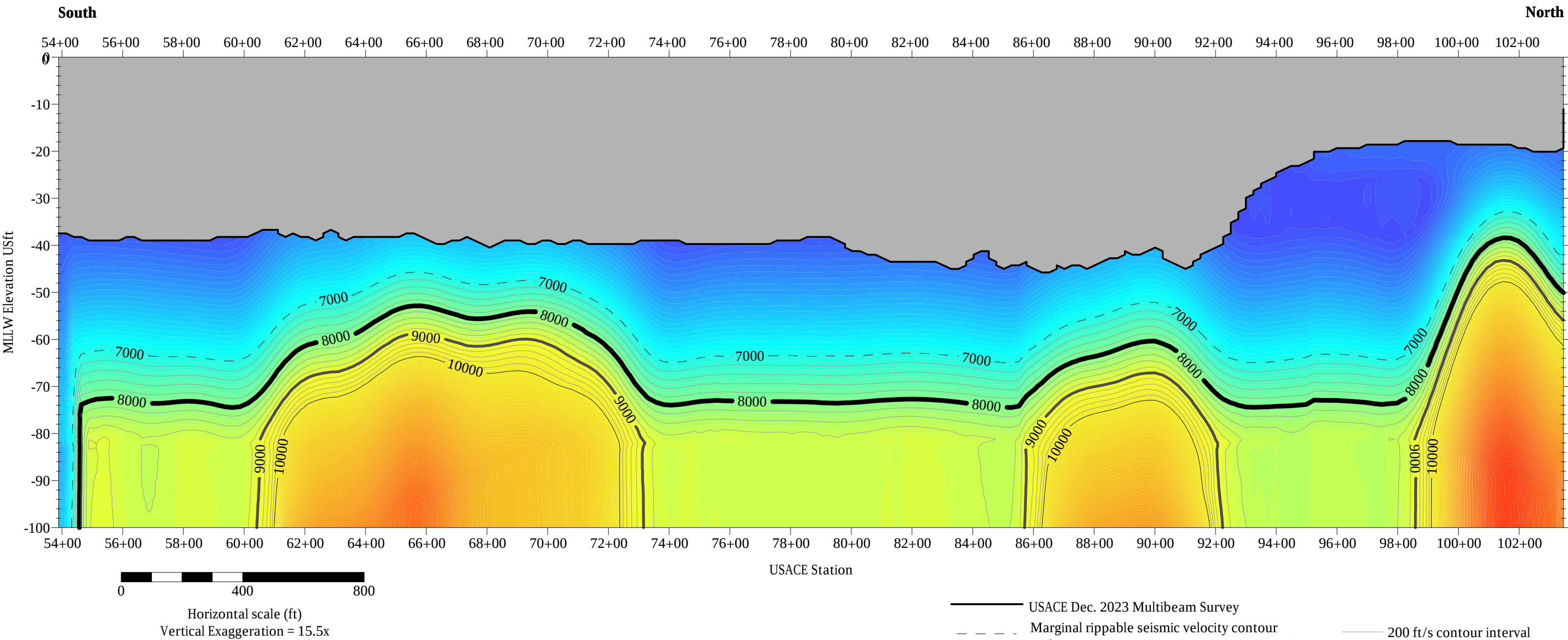


Notes:

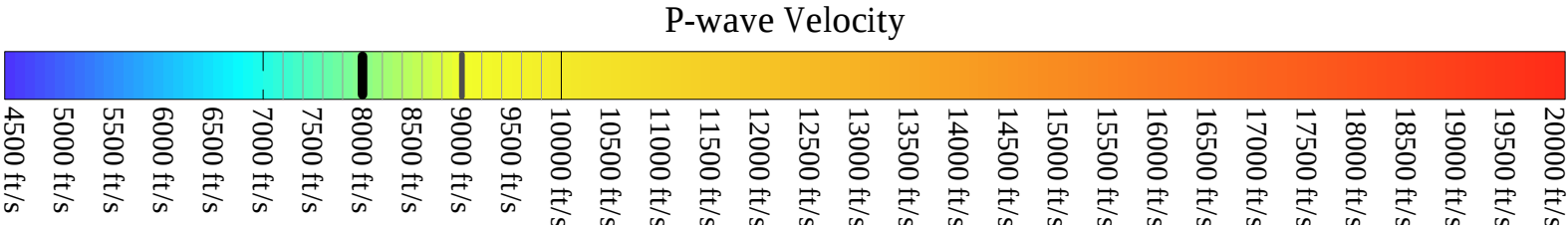
1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULLL. xyz" from USACE e-hydro website.
2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.
4. All background information shown is for reference only.
5. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.

Subsurface Exploration of New Haven Harbor - 2024

R5005 P-wave Velocity Profile with Rippability Contours
Refer to Sheets R-01 and R-02 for Trackline Relation to Channel Centerline



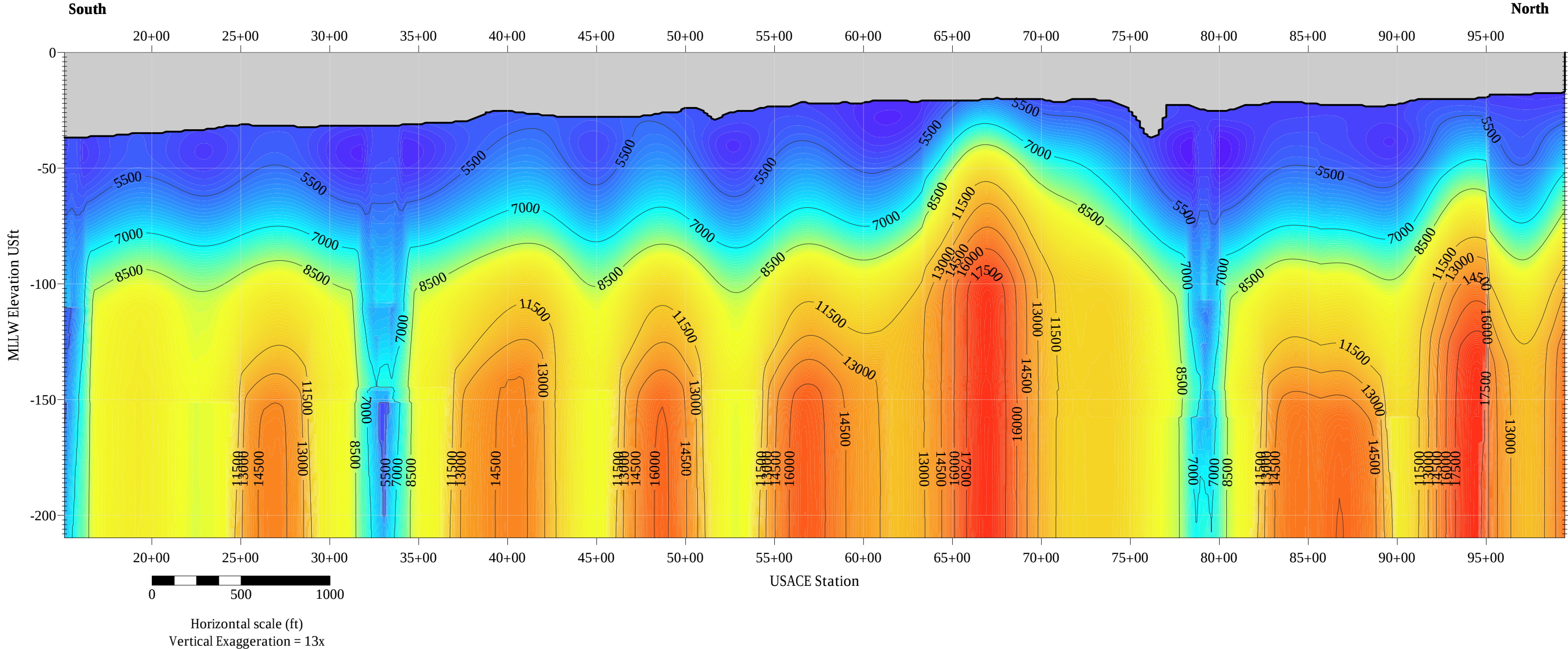
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1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULLL.xyz" from USACE e-hydro website.
2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.
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5. Seismic Velocity Rippability Contours interpreted from USACE ETL 1110-2-282 "Rock Mass Classification Data Requirements for Rippability" June 30th, 1983 Fig. 1-"D8L Ripper Performance Related to Estimated Seismic Wave Velocity. Multi or Single Shank No. 8 Ripper from Caterpillar Performance Handbook, 1982."
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Subsurface Exploration of New Haven Harbor - 2024

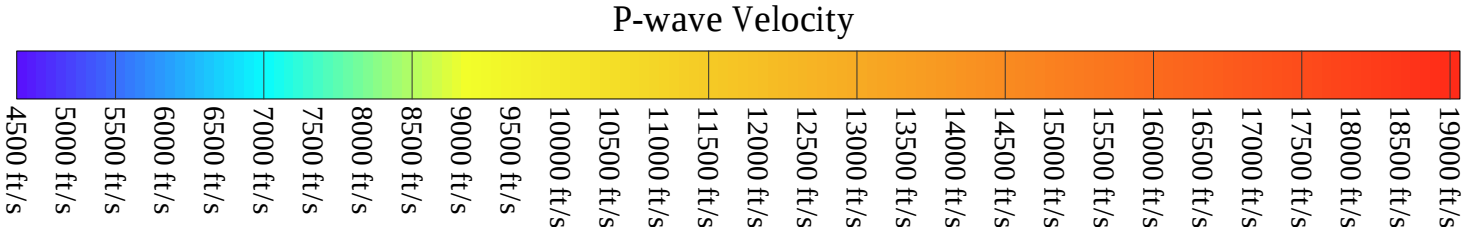
R5007 P-wave Velocity Profile

Refer to Sheets R-01 and R-02 for Trackline Relation to Channel Centerline



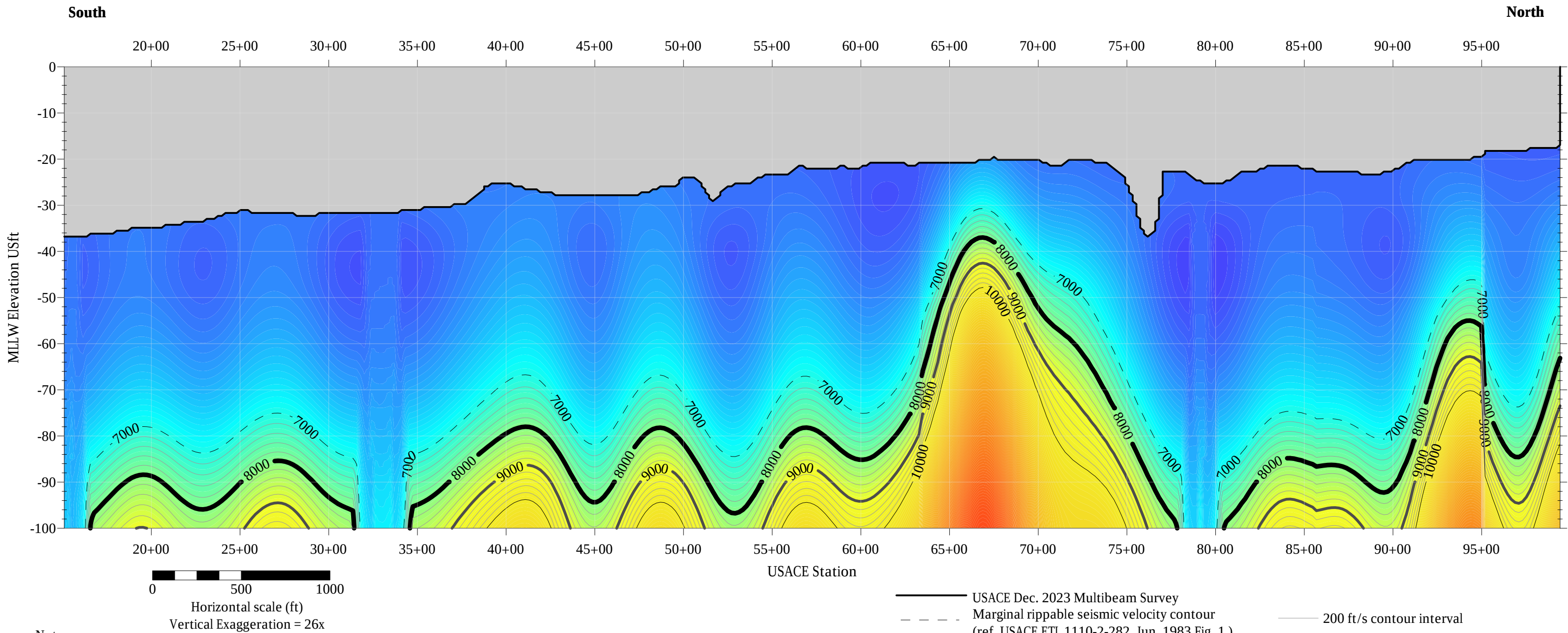
— USACE Dec. 2023 Multibeam Survey
— P-wave Velocity Major Contour

- Notes:**
1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULL.xyz" from USACE e-hydro website.
 2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.
 4. All background information shown is for reference only.
 5. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.



Subsurface Exploration of New Haven Harbor - 2024

R5007 P-wave Velocity Profile with Rippability Contours
Refer to Sheets R-01 and R-02 for Trackline Relation to Channel Centerline



Notes:

1. Bathymetry data shown is Dec. 2023 USACE Multibeam survey. "CT_19_NHH_20231206_CS_073_FULL.xyz" from USACE e-hydro website.

2. Seismic velocity shown is from GBA/STHE May 2024 geophysical survey where data was collected using a Multichannel Marine Seismic Refraction (MCSR) system consisting of a 72-channel hydrophone streamer with variable group spacing and a single Serecel Mini G-SOURCE airgun.

3. All background information shown is for reference only.

4. These figures should not be intended to quantify onsite material volumes, they are only to present p-wave velocity results.

5. Seismic Velocity Rippability Contours interpreted from USACE ETL 1110-2-282 "Rock Mass Classification Data Requirements for Rippability" June 30th, 1983 Fig. 1-"D8L Ripper Performance Related to Estimated Seismic Wave Velocity. Multi or Single Shank No. 8 Ripper from Caterpillar Performance Handbook, 1982."

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