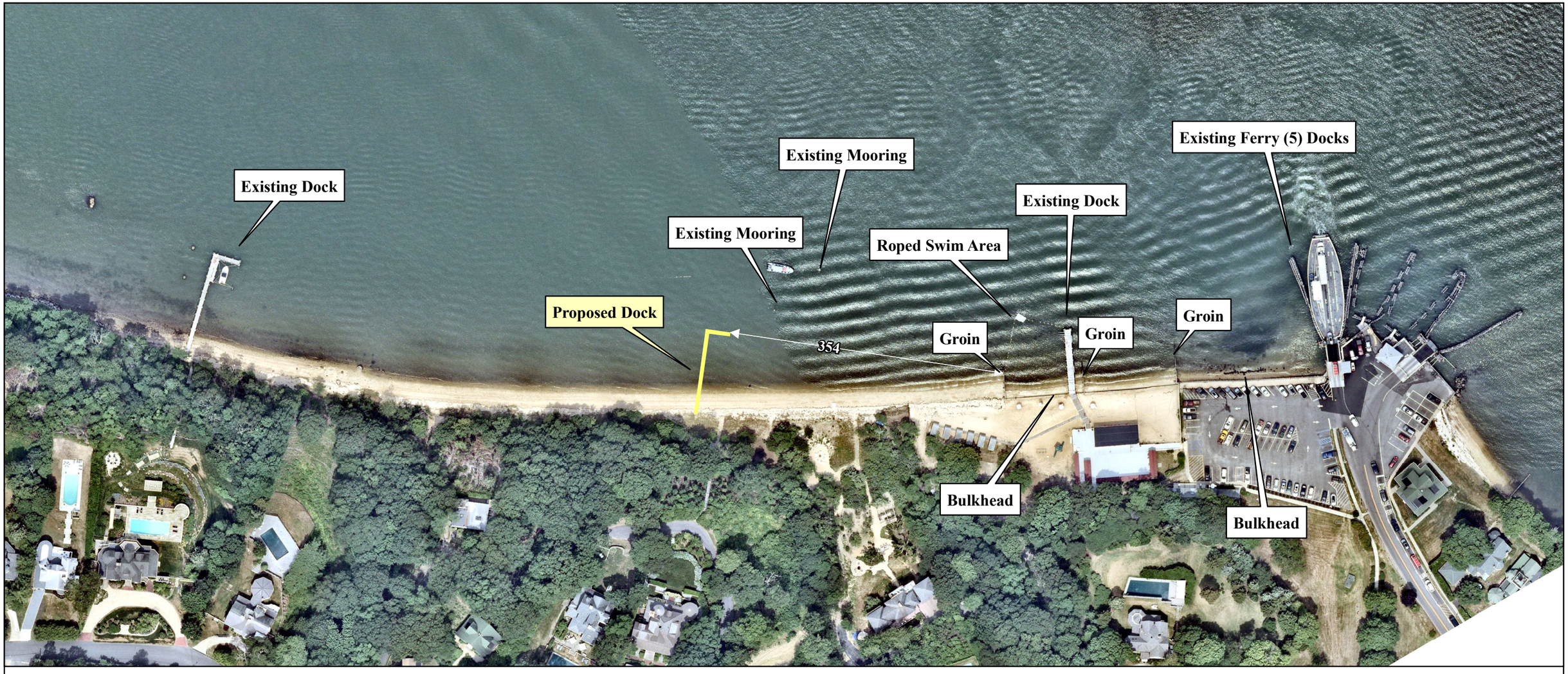

ANALYSIS OF PROPOSED DOCK

1. Based on 6/30/2025 Nearmap aerial, the proposed dock is in line with existing structures on this stretch of shoreline developed with multiple docks, groins, bulkheads, and moorings.
2. Proposed dock will not incresae vessel traffic to the area.
3. Proposed dock will not create a hazard to navigation as it is between existing docks north and south and is landward/in line with these docks.
4. Proposed dock is 354 feet from the roped swim area at the beach club and will not impact the safety of club swimmers.
5. Proposed dock provides a 4-5 foot wide path landward of the ramp for public access along the foreshore.
6. Proposed dock meets all requirements of Chapter 53 of the Town Code regarding property line setbacks, length, width, and depth at float. See DA-6B-2 for discussion regarding splashboards.

NOTES
1. Proposed Dock digitized from 1/9/2024 Site Plan prepared by Costello Marine Contracting Corp. Site Plan georeferenced to 2023 orthoimage from NYS GIS Clearinghouse.
2. Basemap is 6/30/2025 Nearmap aerial.

N

1 in = 125 ft

0 50 100 ft

Land Use Ecological Services, Inc.

Prepared By: Land Use Ecological Services, Inc.
570 Expressway Drive South
Suite 204
Medford, NY 11763

Project: PROPOSED DOCK ANALYSIS
For: Chad Rustan Pik 2012 Rev. Trust
At: 6 Bluff Avenue, Shelter Island Heights
SCTM # 700 - 5 - 4 - 1

Date: 7/21/2025 | Revised: | Sheet: DA-6B-1

ANALYSIS OF PROPOSED SPLASHBOARDS

1. Fetch from W, NW, and N is over 1 mile (5,280 ft) and from SW is 0.93 mile. Predominant wind direction is W and SW. Splashboards are needed to reduce wave action on the east/north side of the dock (i.e. slip area) for safe docking.
2, Proposed dock splashboard (wavebreak) has been designed utilizing Best Management Practices accepted by NYSDEC and USACE. Splashboard does not extend the length of the dock or connect to the beach, is elevated 2' above grade, and has 2-3 inch gaps between boards. These BMPs provide wave protection to docking vessels while providing for uninteruppted sediment transport. Splashboards designed utilizing these BMPs do not cause erosion and may actually provide some erosion protection downdrift of the splashboard.

NOTES
1. Proposed Dock digitized from 1/9/2024 Site Plan prepared by Costello Marine Contracting Corp. Site Plan georeferenced to 2023 orthoimage from NYS GIS Clearinghouse.
2. Basemap is ESRI Basemap World Imagery.

N

1 in = 1,300 ft

0 650 1,300 ft

Land Use Ecological Services, Inc.

Prepared By: Land Use Ecological Services, Inc.
570 Expressway Drive South
Suite 204
Medford, NY 11763

Project: PROPOSED DOCK ANALYSIS
For: Chad Rustan Pik 2012 Rev. Trust
At: 6 Bluff Avenue, Shelter Island Heights
SCTM # 700 - 5 - 4 - 1

Date: 7/21/2025 | Revised: | Sheet: DA-6B-2