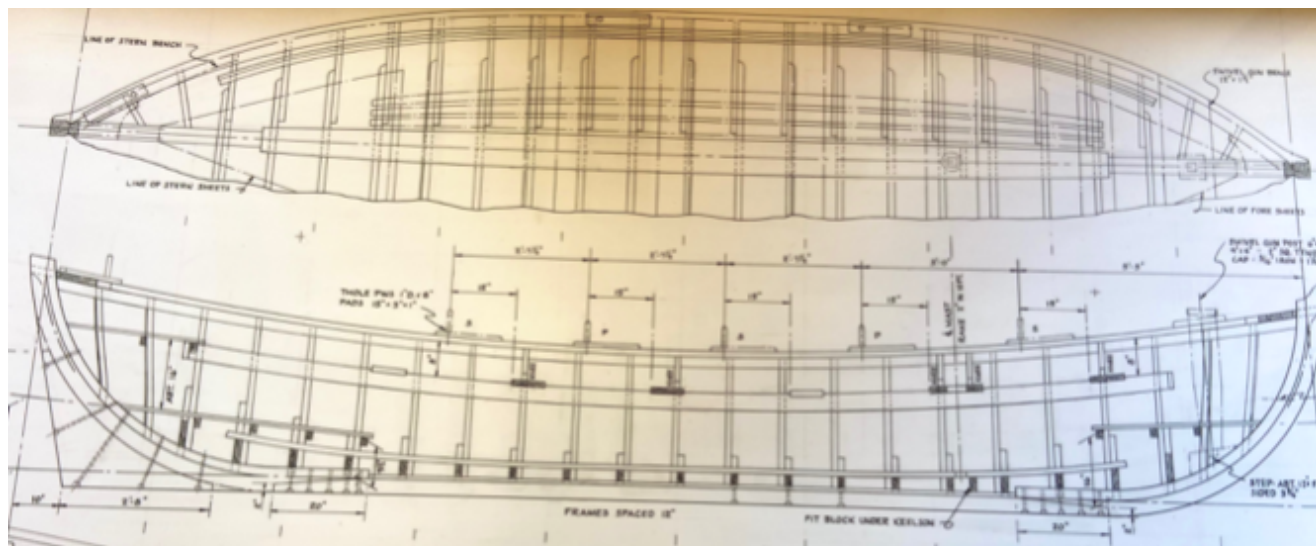


# BOAT SHOP NEWS



*THE BAYLES BOAT SHOP — PORT JEFFERSON, NY*



## All Hands on Deck

The whaleboat project has begun in earnest, and “All Hands on Deck” order has been issued. The Bayles Boat Shop will construct a full-size replica of a whaleboat used by our colonial patriots during the revolutionary war. Local patriots formed a spy network known as the Culper spy ring. They operated in nearby Setauket and Port Jefferson harbor and made full use of whaleboats to maintain war communications to the Connecticut shores. In some cases, the whaleboats actually did battle with enemy shipping. In the construction of our whaleboat, we will as much as possible try to adhere to the plans and utilize only materials that would have been available during the original construction period. The Bayles

Boat Shop's all-volunteer full crew has come together like never before to lend their labor and skills to this worthy project. The construction of this twenty six whaleboat will require several teams of workers each assigned to fabricate and assemble an intricate framework and planking, visible in the layout plan above. The completed whaleboat will also include paddles, oars, a mast, and sail. Teen students from Avalon Nature Preserve have already begun fabricating the oars and paddles. Kayla Kranker, Program Coordinator for Avalon, will supervise the students and assist in the building of the whaleboat. As this is a non-profit endeavor, the Whale Boat project will rely on funding and private donations.

# The Lofting



The actual whaleboat plans provided to us by the Massachusetts Institute of Technology (MIT) arrived in a scaled format of three quarter inch to the foot. In order to construct this whaleboat, full size plans are necessary. To construct these full-size plans, we were required to fabricate a full-size platform of attached plywood sheets sufficient in size to accommodate three full-size views of the whaleboat. In boat building, this floor plan is called a *lofting*. A grid system of horizontal waterlines and vertical station lines are established. A table of offsets provided with the plans provided exact locations on the grid that when connected will provide a full-size image of the whaleboat. When the lofting is completed, we can make full-size patterns from the various locations. The full-size patterns will then allow our boat shop crew to actually fabricate and assemble the many parts. As of this writing the lofting project has yet to be completed. We are still lofting the body plan and maybe altering some lines. This lofting process was a challenge and a learning process for all involved. The lofting crew spent many hours kneeling on the lofting and



performing detailed measuring and numerous corrections. We wore out several pencils and erasers in the process. In the end, we all learned something about lofting.







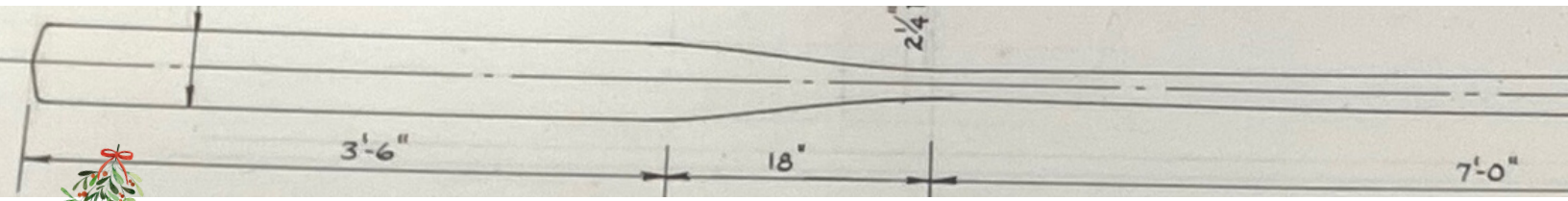
WHALEBOAT

# AVALON STUDENTS

AVALON STUDENTS AT WORK





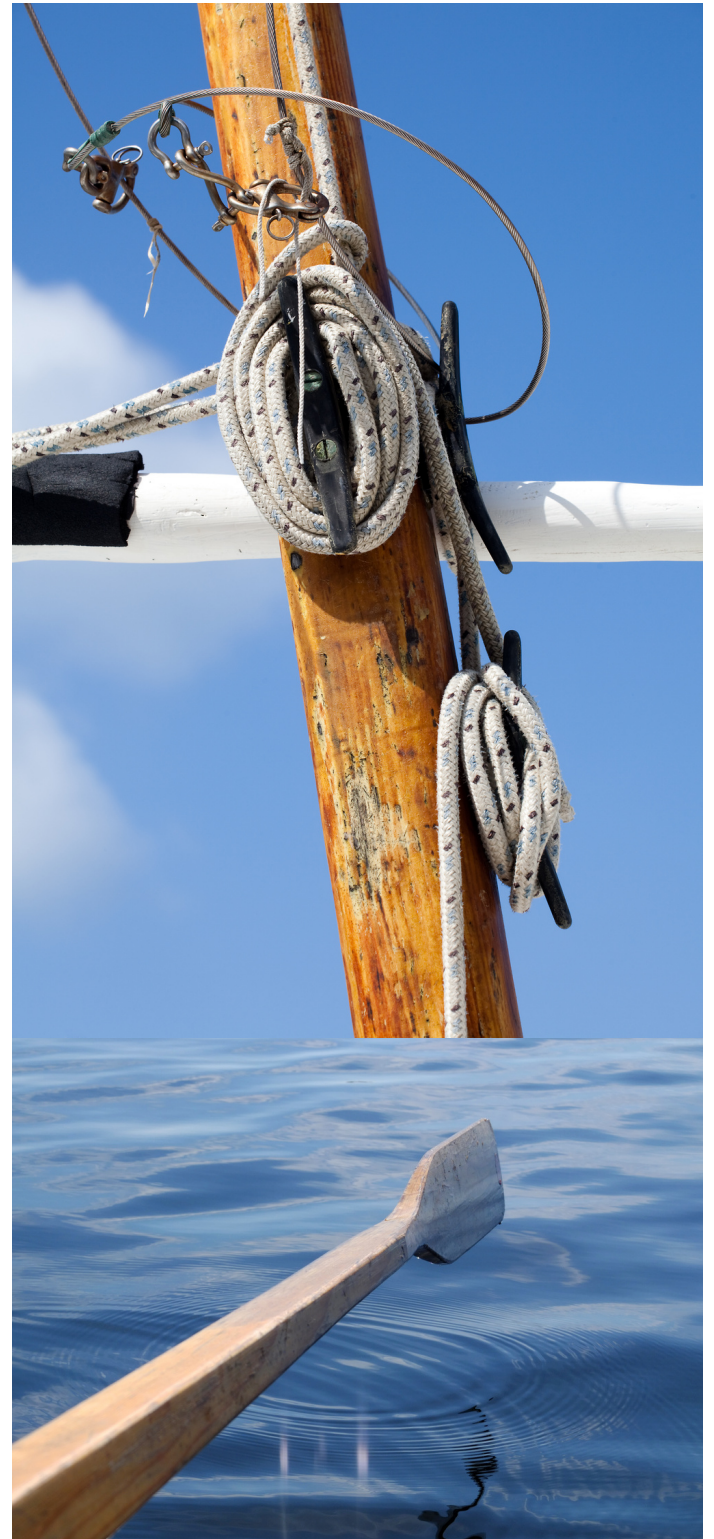


## OARS & SPARS

Avalon volunteer students have already begun the process of constructing the six oars for the whaleboat project. The oars when completed will be a hefty sixteen feet in overall length. The shop has selected Ash as the timber of choice for the oar construction. The Avalon students will only use hand tools to construct the oars to specification, as did the local colonial boatbuilders. Handsaws, spokeshaves and drawknives will be utilized by the students under the direction boat shop instructors. The hand tools utilized by the students are sharp and require a skill level to achieve the desired oar shape. The students have been practicing recently on sample pieces of Ash, and now appear ready to begin carving and shaping the full size oars.

## THE AVALON STUDENTS

ARI MOSHKOVICH  
ZACHARY FONDACARO  
FIONA REICHERS  
MELISSA WONG  
AND WILL BOONIN









# BOAT SHOP SAFETY

Remember to Utilize

**DUST MASK  
EAR PLUGS  
GOGGLES  
GLOVES  
+ PROTECTIVE CLOTHING**

