Guide to The William A. Baker Collection

His Designs and Research Files
1925–1991

The Francis Russell Hart Nautical Collections of MIT Museum

Kurt Hasselbalch
and
Kara Schneiderman

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First Donation
Size: 36 document boxes
583 plans
9 three-ring binders
3 photograph books
4 small boxes
3 oversized boxes
6 slide trays
1 3x5 card filing box

Processed: October 1991
By: Kara Schneiderman

Second Donation
Size: 2 Paige boxes (99 folders)
20 scrapbooks
1 box of memorabilia
1 portfolio
12 oversize photographs
2 slide trays

Processed: August 1992
By: Kara Schneiderman

Access
The collection is unrestricted.

Acquisition
The materials from the first donation were given to the Hart Nautical Collections by Mrs. Ruth S. Baker. The materials from the second donation were given to the Hart Nautical Collections by the estate of Mrs. Ruth S. Baker.

Copyright
Requests for permission to publish material or use plans from this collection should be discussed with the Curator of the Hart Nautical Collections.

Processing
Processing of this collection was made possible through a grant from Mrs. Ruth S. Baker.
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William Avery Baker was born in New Britain, Connecticut on October 21, 1911. He received a Bachelor’s Degree in Naval Architecture and Marine Engineering from MIT in 1934, and in August of that year, began his career at the Bethlehem Steel Company, Shipbuilding Division, as an electric welder. On May 2, 1936, William Baker married Ruth Stuart. He remained at Bethlehem Steel in a number of different positions, working at both the Quincy, Massachusetts and San Francisco, California yards, until his retirement in 1964.

From 1963 to 1981, William Baker held the position of Lecturer in MIT’s Department of Naval Architecture and Marine Engineering, which became the Department of Ocean Engineering after 1971, and during this same period, he served as Curator for the Francis Russell Hart Nautical Museum. He held memberships in many professional organizations, served on United States government committees, consulted for the National Geographic Society, Time-Life, and the National Trust for Historical Preservation. Baker received many awards throughout his career, including Norway’s St. Olav’s Medal in 1949 for his work on Gjøa. William Baker is the author of eleven books, as well as numerous articles, lectures and papers.

Baker’s design files begin in 1941 with a keel-double ender Block Island type design and end in 1981 with Elizabeth II. During the years in between, William Baker became one of the foremost authorities on the design and construction of colonial vessels. His designs include Mayflower II, a reconstruction of the ship which brought the Pilgrims to Massachusetts; Beaver II, a reconstruction of the Boston Tea Party Ship; reconstruction plans for Gjøa, the first vessel to make the Northwest Passage; Adventure, a colonial trading ketch replica; and over seventy-five other designs.

The William A. Baker Collection contains material dating from 1925 to 1991, encompassing Baker’s career as a naval architect and internationally known expert on colonial vessels. Included are his papers, vessel designs and plans, design notebooks, models and half models, books, photographs, slides, and original artwork. The importance of this collection lies not only in the files relating to Baker’s own designs, but also because, as a whole, it forms a naval architect’s “kit,” containing the extensive research required to create those designs. In Baker’s work, that research is primarily in the field of colonial vessel design and construction, an area in which there is little in the way of original records or vessel plans.

The collection is divided into three major sections: the Bethlehem Shipbuilding Corporation Files, those materials relating to Baker’s employment with the Bethlehem Steel Company, Shipbuilding Division (1934-1964); the Design Files, which relate to Baker’s career as a naval architect specializing in the design of colonial vessels (1941-1991); and the Research and Reference Files, which Baker used in creating designs and writing books. Also included in the collection are items from Baker’s childhood (1925-1930), ship plans and notebooks from Baker’s student years at MIT (1930-1934); design notebooks; and design and research/reference slides. An automated database for searching the design files is available on Paradox as “Baker.”

A second donation of material was made to the Hart Nautical Collections upon the death of Mrs. Ruth Baker in 1992. This portion of the collection includes manuscripts for design proposals, correspondence, news clippings, publicity files, a selection of travel scrapbooks, design scrapbooks, and memorabilia. An inventory of this second donation can be found in Appendix C and cross-references have been made to the materials throughout this finding aid.

The following abbreviations appear throughout this finding aid:

- WAB  William A. Baker
- RSB  Ruth S. Baker
- HNC  Hart Nautical Collections
- BSC  Bethlehem Steel Corporation
Series Listing

I Research and Reference
10 document boxes (162 folders)
three photograph books
one oversize box
272 plans
arranged by subject

This series comprises William Baker’s naval architect’s “kit” of materials used in the research of his designs and projects. There are four subseries: Research and Reference Files, containing reproductions of historical documents, brochures, articles, correspondence, photographs, marine art, maritime museum catalogs, newsletters, and other written materials; Research and Reference Photograph Books, three-ring binders which contain photographs of vessels and reproductions of documents; Research and Reference Oversize Material, such as plans and photographs; and Research and Reference Plans, including large collections from Union Iron Works and Risdon Iron Works. The plans are arranged according to Baker’s own inventory which, for the most part, is by vessel type.

II Bethlehem Shipbuilding Corporation
19 document boxes: 188 folders
one oversize box
11 plans
arranged by subject

This series contains files relate to Baker’s career at the Bethlehem Steel Company, Shipbuilding Division, where he worked from 1934 to 1964. There are three subseries: BSC Files, containing technical notes and documents, plans, correspondence, articles, brochures, and lists of vessels; BSC Oversized Material, including graphs, charts and photographs; and BSC Plans, primarily those drawn by Baker while at BSC (drawer Z-3).

III Vessel Designs
five document boxes: 78 folders (first donation)
one Paige box: 50 folders (second donation)
300 plans
one portfolio (second donation)
12 oversize photographs (second donation)
arraanged by design number

The Vessel Design Files include correspondence, photographs, brochures, articles, sketches and graphs, notes, plans, histories, and other documents relating to Baker’s designs. The Vessel Design plans themselves are located in flat file storage (drawer SO-3) and are also arranged according to design numbers assigned by Baker.
IV  Notebooks

six three-ring binders and 9 notebooks
arranged by subject

Numbered and arranged by William Baker, these binders contain historical research, articles and notes, and relate to both the Research and Reference Files and the Design Files. An index exists in the front of each binder, providing a complete guide to its contents. The notebooks, which are arranged chronologically, contain notes from classes taken at MIT, notes made while at Bethlehem Shipbuilding, and notes related to his own designs.

V  Slides

eight trays: approximately 7,200 total (2 boxes from second donation)
arranged by subject

This series contains slides on the following subjects: steam vessels, historic vessels, and tools; shows, and WAB lectures; WAB designs; lecture slides; research slides. Each tray contains a brief index.

VI  Publications and Lectures

two document boxes: 58 folders (first donation)
one Paige box: 49 folders (second donation)
arranged chronologically

These two boxes contain some of Baker’s most important writings, including a rough draft and final copy of his senior thesis from MIT. There are two subseries containing manuscripts, articles, papers and books: Writings and Publications by Baker dating from 1934-1981, and Conferences and Lectures dating from 1947-1980.

VII  Scrapbooks

20 scrapbooks (second donation)
arranged chronologically and generally by subject

This series includes news clippings (1939-1981), travel scrapbooks (1952-1978) containing photographs, news clippings, and realia primarily from trips to Europe, and design scrapbooks containing photographs and news clippings on a number of Baker’s best known designs.

VIII  Memorabilia

one box: 22 items (second donation)

This box contains items from Baker’s childhood, medals, insignia, certificates, and small models.
Guide to The William A. Baker Collection

♦ Series Description ♦
- Series I -
Research and Reference: Files

<table>
<thead>
<tr>
<th>Box</th>
<th>Folder</th>
<th>Contents</th>
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<tbody>
<tr>
<td>I</td>
<td>R1-R14</td>
<td><strong>Early to 17th Century Vessel Research</strong></td>
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<tr>
<td></td>
<td>R1</td>
<td>“The Poole Ship of 1325” [pamphlet]</td>
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<td></td>
<td>R2</td>
<td>“A Ship of the Roman Period from Blackfriars in the City of London” [booklet]</td>
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<td></td>
<td>R3</td>
<td>“Recent and Early Information about Ancient and Medieval Ships” by Elliot Snow</td>
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<tr>
<td></td>
<td>R4</td>
<td>15th century ship design</td>
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<td>R5</td>
<td><em>Nina</em> and <em>Santa Maria</em> (see also slide box 1)</td>
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<td>R6</td>
<td>“Survival of Pre-16th Century Mediterranean Lofting Techniques in Bahia, Brazil” (1985)</td>
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<td></td>
<td>R7</td>
<td>“Early Shipbuilding in Colonial New Spain, 1519-1565” by William Collins (1964) [manuscript thesis]</td>
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<td>R8</td>
<td><em>La Grande Hermine</em> of 1534</td>
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<td>R9</td>
<td><em>La Grande Hermine</em> of 1534</td>
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<td></td>
<td>R10</td>
<td>Matthew Baker notebook, ca. 1585 (see also Research and Reference photograph book 2)</td>
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<td>R11</td>
<td>“Instruccin Nautica of 1587” by de Palacio; translated by J. Bankston</td>
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<td></td>
<td>R12</td>
<td>Zuider Zee (Holland): excavations of late 16th to early 17th century vessels</td>
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<td></td>
<td>R13</td>
<td>16th and 17th century ship design</td>
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<td></td>
<td>R14</td>
<td>16th and 17th century vessels: two papers by Richard Baker</td>
</tr>
</tbody>
</table>

<p>| II  | R15-R40 | <strong>17th Century Vessel Research</strong> |
|     | R15    | “The Bends of a Ship” by Thomas Fagge |
|     | R16    | “Del Arcano Del Mare Del Duca di Nortumbria Libro Quarto” (see also microfilm box 4f) |
|     | R17    | Paper presented to King Charles II on “The Art of Shipbuilding” |
|     | R18    | English translations of two Swedish works on shipbuilding |
|     | R19    | 17th century vessels |
|     | R20    | Maps of London showing 17th century vessels |
|     | R21    | Lists of ships |
|     | R22    | Elizabethan galleon (ca. 1600) |
|     | R23    | “Quiros in New Spain, 1606” [ship’s inventories] |
|     | R24    | <em>The Half Moon</em> (ca. 1609) |
|     | R25    | “Harriot’s Manuscript on Shipbuilding and Rigging (ca. 1610)” by Jon V. Pepper [1979: paper] |
|     | R26    | Vroon’s <em>Royal Prince</em> of 1610 |
|     | R27    | “Adriaen Block, 1611-1614: New York’s First Shipbuilder” [pamphlet] |
|     | R28    | “Livro de Tracas de Carpintaria, 1616” (see also Research and Reference photograph book 2) |</p>
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<tr>
<th>Box</th>
<th>Folder</th>
<th>Contents</th>
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<tbody>
<tr>
<td>R29</td>
<td>Documents (1616-1620) on the construction and delivery of the <em>Atocha</em> and three other galleons</td>
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<tr>
<td>R30</td>
<td>Pinnace Contracts (1625)</td>
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<td>R31</td>
<td>“A Treatise on Rigging” (1625)</td>
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<tr>
<td>R32</td>
<td><em>Wasa</em> of 1628 (see also slide tray 6)</td>
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<td>R33</td>
<td>Sketches of vessels from the log of drawer Thomas Browne, 1661-1662</td>
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<td>R34</td>
<td>“Atlas de Colbert” (ca. 1663)</td>
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<td>R35</td>
<td>“The Complete Modellist of Thomas Miller, 1667” by Vernon D. Tate</td>
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<td>R36</td>
<td>“Doctrine of Navall Architecture” by Anthony Deane (1670) (see also oversize box I)</td>
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<tr>
<td>R37</td>
<td>Samuel Fortree of Navarachi [papers]</td>
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<td>R38</td>
<td>“W. a Winschootens Seeman...” (1681)</td>
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<tr>
<td>R39</td>
<td>“W. a Winschootens Seeman...” (1681)</td>
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<tr>
<td>R40</td>
<td>“Notes on a Naval Manuscript Compiled by Edward Battine, c. 1688”</td>
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**III R41-R53 18th Century Vessel Research**

| R41 | 18th century ship design |
| R42 | Japanese scrolls showing Chinese vessels (see also slide tray 3) |
| R43 | “Early Iron Barges” by The Wilkinson Society (London) [booklet] |
| R44 | Lists of ships |
| R45 | “The Accomplish’d Ship-Wright and Mariner” John Hardingham (1709) |
| R46 | “Lexicon Technicum” by John Harris (1723, 1725) [extracts] |
| R47 | John Peck (1725-1790) [papers] |
| R48 | Brown’s Ferry (South Carolina) vessel (ca. 1730) |
| R49 | *Le Chebec* (1750-1786) |
| R50 | The Journal of John Russell (1762-1765 ) [extracts] |
| R51 | *San Carlos* (1767) |
| R52 | *Columbia* (1787) and *Lady Washington* |
| R53 | Plates from *The Encyclopedia of Arts and Sciences* (1797) |

**IV R54-R80 19th and 20th Century Vessel Research**

| R54 | “Donald McKay and the Ships he Built’, 1925 [pamphlet] |
| R55 | Brig *Boston* |
| R56 | Lloyd’s list (1820) |
| R57 | U.S. 10-gun brig *Perry* (1840’s) [plans] |
| R58 | “Sail Plans Traced from the Notebooks of Sailmakers J.W. Loane & Sons of Baltimore for 1840-1870” |
| R59 | The *S.S. Great Britain* (1843) |
| R60 | “Lines of Vessels Taken from Builder’s Half Models, 1850-1923” |
| R61 | Clipper ship *Flying Cloud* (1851) [plans] |
| R62 | Ship descriptions from *The Boston Atlas* (1851-1856) (see also Research and Reference photograph book 3) |
| R63 | Clipper ship *Great Republic* (1853) |
| R64 | Advertisements from a Boston magazine, including Harrison Loring and Simpson Dry Dock Company (1860) [originals] |
| R65 | “The Voyages of ‘Norwest John’ ca. 1860” [manuscript] |
| R66 | “The Ships that Foundered off Spithead” (1860) |
Box    Folder    Contents

R67    Civil War gunboats *U.S.S. Monitor* and *U.S.S. Cairo*
R68    Clipper ship *Cutty Sark* (1869) [brochure]
R69    Notes by Albert Hanson on details of a three-masted schooner *Earl H. Potter* (1872)
R70    Woods Holes spiritsail boat *T.C.* (1885) [plans]
R71    “Documents Relatifs a la Marine Normandie”, chapter one (1889)
R72    Lists of ships, 19th and 20th century
R73    Swedish vessels, 19th and 20th century
R74    Articles on small boat design (1920’s-1960’s)
R75    7-masted schooner *Thomas W. Lawson* (1902)
R76    “*Helen B. Thomas* knockabout fisherman” (1902) [article]
R77    Steamship *Sabino* (1908) [brochure]
R78    Herreshoff designs (1920, 1939)
R79    Schooner *Pride of Baltimore* (1976) (see also slide tray 1)
R80    Sea Education Association, Woods Hole, Massachusetts (1978)

V     R81-R102    Vessel Research: Type and Construction
R81    “The Method of Building, Rigging, Apparelling and Finishing His Majesty's Ships of War...” by Samuel Pepys
R82    Rigging notes and details (historical)
R83    “Rigging—Structure—Outfit—Miscellaneous.” from *The Seaman’s Dictionary* by Henry Mainwaring
R84    “A Fourth-Rate Ship” [plan]
R85    Woodworking tools
R86    “Block Machinery at Portsmouth” [plates]
R87    Guns (15th-19th century)
R88    Chesapeake Bay (Maryland) vessels
R89    Brigantines and schooners
R90    Sloops
R91    “On the Stability of Sailing Vessels” by Beebe-Center, Jr. and Brooke [paper: SNAME, 1966]
R92    “Random Notes on Sailing Vessels” by WAB (wind ships)
R93    Vessel research by WAB for his books *Colonial Vessels* and *Sloops and Shallops*
R94    St. John Wood boats (see also Designs 36 and 37)
R95    Steamships
R96    Steam vessels: booklets with drawings by Samuel Ward Stanton
R97    Diesel engines
R98    “Date and Notes on the Sailing Vessel Fleet of the Alaska Packers Association (San Francisco)”
R99    Ferries (California)
R100   Tugboats
R101   “Development of Hull Form of Merchant Vessels” by G.S. Baker (1937)
R102   State barges

VI    R103-R116    Historical Research: Museums and BSC Brochures
R103    Rotterdam, Holland: paintings from Prins Hendrik Maritime Museum
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<td>Rotterdam, Holland: paintings from Prins Hendrik Maritime Museum</td>
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<td>R105</td>
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<td>Amsterdam: paintings</td>
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<td>R106</td>
<td></td>
<td>London: National Gallery</td>
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<td>R107</td>
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<td>London: National Maritime Museum</td>
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<td>R108</td>
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<td>England: paintings by Velde (see also Research and Reference photograph book 1)</td>
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<td>R109</td>
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<td>Philadelphia: vessels in harbor</td>
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<td>R110</td>
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<td>Early vessels on maps</td>
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<td>R111</td>
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<td>Ship structures (17th-20th century)</td>
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<td>R112</td>
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<td>Ship structures (17th-20th century)</td>
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<td>England</td>
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<td>Italy</td>
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<td>R116A</td>
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<td>U.S. Navy booklets and photographs of ships (1898-1928)</td>
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<td>R116B</td>
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<td>Bethlehem Shipbuilding Corporation booklets</td>
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<td>R116C</td>
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<td>Fore River Brochure (1902)</td>
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<td>R116D</td>
<td></td>
<td>“A History of Union Iron Works” by WAB</td>
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### VII R117-R127 Historical Research: Preservation and Conservation, Underwater Archaeology

| R117 | | Maritime History of the Delaware River: research for 1976 SNAME paper (see also photograph book 2) |
| R118 | | Maritime History of the Delaware River |
| R119 | | Maritime History of the Delaware River |
| R120 | | “The American Clyde” by David B. Tyler (used for Maritime History of the Delaware River) |
| R121 | | “A Bibliographic Survey of Pacific Northwest Maritime History” |
| R122 | | Articles on underwater archaeology and shipwrecks |
| R123 | | Wooden ship preservation |
| R124 | | “Conservation of Metal Objects from Underwater Sites: A Study in Methods” |
| R125 | | Historical naval architecture |
| R126 | | Historical plans |
| R127 | | Articles |
| R127A | | Articles in German |

### VIII R128-R148 Gateway to the Sea Exhibit, WAB Personal, Howard I. Chapelle

| R128 | | Gateway to the Sea exhibit, 1980: research, correspondence and xeroxes of the exhibit materials |
| R129 | | Gateway to the Sea: history of Boston Harbor |
| R130 | | Gateway to the Sea: exhibit photographs |
| R131 | | Gateway to the Sea: index |
| R132 | | Gateway to the Sea: text |
| R133 | | Gateway to the Sea: introduction |
| R134 | | Gateway to the Sea: 1700 |
| R135 | | Gateway to the Sea: 1800 |
### Box Folder Contents

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<td>Gateway to the Sea: boats/fish</td>
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<td>R137</td>
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<td>Gateway to the Sea: 1900</td>
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<td>R138</td>
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<td>Gateway to the Sea: present</td>
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<td>(see also designs 14E, 25, 30)</td>
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<td>R140</td>
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<td>Howard I. Chapelle: correspondence (1962-1975)</td>
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<td>(see also designs 14E, 32, 40, 42, 43, 56)</td>
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<tr>
<td>R141</td>
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<td>Howard I. Chapelle: obituaries, etc.</td>
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<td>R142</td>
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<td>WAB: MIT class of 1934</td>
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<td>R143</td>
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<td>WAB: resumes</td>
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<td>R144</td>
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<td>WAB: design time records</td>
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<td>R145</td>
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<td>WAB: correspondence (1947-1982)</td>
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<td>R146</td>
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<td>WAB '34: A Memorial Exhibit</td>
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<td>R147</td>
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<td>Paule Loring’s Marine Sketchbook (1964)</td>
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<td>R148</td>
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<td>2 calendars (1 with text by WAB)</td>
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<td>IX</td>
<td>R149-R157</td>
<td>Museum Catalogs and Newsletters</td>
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<td>R149</td>
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<td>Museum catalogs</td>
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<td>R150</td>
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<td>Vancouver Maritime Museum</td>
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<td>R152</td>
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<td>Museum of Fine Arts, Boston</td>
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<td>National Maritime Museum, Haifa (Israel)</td>
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<td>Erie Canal Museum, Syracuse (NY)</td>
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<td>Sealetter of the National Maritime Museum (1964–1979)</td>
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<td>San Francisco Maritime Museum—vessels</td>
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<td>R157</td>
<td></td>
<td>South Street Seaport, New York</td>
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### X Maritime Art: Museum and Gallery Catalogs
Research and Reference: Photograph Books

Book 1

- Colonial Shipbuilding (Colonial Society, 1975)
- Rockport Stone Sloops:
  - Albert Baldwin: lines, arrangement and sail plan
  - Mary A. White: sail plan
- Punic ship remains and new vessel under construction (Marsala, Sicily, 1979)
- Sloops:
  - Duke's plan of New York
  - Dankers' sketches
- Freighter (negatives)
- Photograph of a boat in Paris on the Seine (1952)
- Sam Svensson (negatives)
- Ships a la Rochelle (Colbert)
- Ship (ca. 1640): Hollar
- Ship (ca. 1660): Puget
- Baugean: “Collection de toutes les especes de batimens de guerre et de batimens marchands qui naviguent sur l’ocean et dans la Mediterranee designee d’apres nature et gravee par Baugean. Composee de soixante-douze planches et accompagnee d’un texte explicatif de l’imprimerie de P. N. Rougeron, a Paris, 1814” (see also slide tray 6)
- Gueroult du Pas (ca. 1700) (see also slide tray 6)
- Van de Velde (see also slide tray 6)
- Shipwright books (negatives)
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- Livro de Tracas de Carpintaria (1616) (see also file R28)
- 17th century vessels: bark—Pieter Der Zeelander
- Matthew Baker notebook (ca. 1585) (see also file R10)
- “Venetian Naval Architecture about 1550” by Frederic Chapin Lane
- “Italian Naval Architecture about 1445” by R. C. Anderson
- “A Contemporary 15th Century Ship Model” by Henry B. Culver
- “The Model of a Spanish Caravel of the Beginning of the 15th Century” by J. W. Nouhuys
- “The Roman Galleys in the Lake of Nemi” by G. C. Speziale
- National Trust for Historic Preservation grant photographs (1978-1980)
- SNAME New England Sailing Yacht Symposium (1976)
- SNAME Delaware River Shipbuilding History (1976) (see also files R117-R119)
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- Boston Atlas vessel descriptions (1851, 1853)
- L. Morel-Fatio: drawings (1842)
- Building accounts:
  - Dispatch packet (1813)
  - Boat George (1815)
  - Freight accounts
- Naval Documents of the American Revolution
- Action and Reaction Equal in a Fluid by Sutherland (1725)
- “Comparative Naval Architecture, 1670-1720” by R. C. Anderson
Reference and Reference: Oversize Material

Reference and Design Files (Oversize Box I)

- Postcard of a harbor (1906)
- Fore River booklet in Spanish (no date)
- “Private Signals: Merchants of Boston” [calendar] State Street Bank (1936-1937)
- Photograph of WAB taken at MIT (no date)
- *Wasa*: 4 b&w photographs and a preliminary print of the painting *Wasa* by H. G. Smith for the National Geographic Society
- Danish vessels: church frescoes from the middle ages
- Dutch Fluyt: from the Kendall Whaling Museum
- *S.S. H. M. Whitney* (1890)
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- New Zealand scows [photocopies], 12 sheets
- *U.S.S. Constitution*: photograph in Charlestown Navy Yard, no date; and plans (1926) for restoration work.
- *Niagara* (WAB design 72): 3 plans (research)
- *Brilliant* (WAB design 51): reproduction of letter (1776)
- *Los Tres Reyes* (WAB design 74): reproduction of Baker plan 74-Sk-3
- *Mayflower II* (WAB design 54E): reproduction of the offsets for loft; plan of the *Mayflower* drawn by George B. Douglas (1920); cross section sketch showing the pilgrims in the *Mayflower* and her original below deck arrangement by John S. Seamans; sketch of the *Mayflower II* nearing completion at Brixham, England
- Illustrations for WAB books
Research and Reference: Plans - Union Iron Works

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- B173 Proposed stern wheel tanker, 1909 (Union Iron Works)
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Bethlehem Shipbuilding Corporation: Oversize Material

Bethlehem Shipbuilding Corporation Files (Oversize Box II)

- Graphs and profiles of tanker designs by WAB
- “Stats” of one tanker, probably drawn by WAB
- Appendage resistance calculations and graphs for destroyers by WAB
- P2 transport: trial performance graphs
- Passenger steamships
- Olympic Games (H-4463): tanker, Sparrows Point (MD) Yard, color photograph
- World Liberty: tanker, b&w photograph
- President Cleveland (H-9509): passenger ship, Alameda (CA) Yard
Bethlehem Shipbuilding Corporation: Plans - William A. Baker, Architect

Socony Vacuum (H-4333, 4332) single screw tanker
- Blueprint of scantling plan (1932) (roll file A2)

BSC sketches (drawer Z-3)
- Shackle (1947)
- 100 ton shackle (1947)
- Proposed 365 ft. ore carrier, P-1308 (1943)
- Proposed Great Lakes ore carrier (1950)
- P2-SE2-R1 (1942) preliminary outboard profile, H-9501-10
- 18 knot dry cargo ship, American Export Lines (no date)
- Twin screw or carrier (no date)
- Single screw ore and oil carrier (no date)
- Proposed passenger and cargo vessel for the Inter Island Steam Navigation Company, Honolulu: outboard profile
- Proposed passenger and auto vessel for the Inter Island Steam Navigation Company: outboard profile, 2021-72231
SERIES DESCRIPTION

- SERIES III -
VESSEL DESIGNS

VESSEL DESIGNS: FILES

There is no information in the design files for the following design numbers:
II, III, V X XI, XII, 17, 36, 37, 38, 42A, 54, 64, 65, 67.


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| 20  |        | Cruising Sloop (1957)  
      |        | Related material: scrapbook 12  
      |        | Profile sketch (pencil); lines and notes. |
| II  | 21     | Gundalow (Gondola, Gunboat) *Philadelphia* of 1776 (1958)  
      |        | Related material: slide tray 3, second donation files, scrapbook 12  
      |        | Correspondence; several articles, booklets and pamphlets; “Specifications for Reproduction of 1776 Gundola” (1958); notes on rigging and offsets; photocopies of 1939 and 1945 plans. |
| 22  |        | 15’ 6” Catboat (1957-1958)  
      |        | Notes and lines graphs. |
| 23  |        | Cruising Yawl (1958)  
      |        | Related material: half model  
      |        | Proposal for reducing costs (1960); building specifications for a shallow-draft cruising yawl (1959); notes on offsets and camber; notes on masts and rigging; lines graphs; notes on lines and tanks; preliminary specifications; notes on weights; notes on Herreshoff scantlings. |
| 24  |        | Shallop *Answer* of 1600's (1958)  
      |        | Related material: design 29, scrapbook 12  
      |        | Notes on camber. |
| 25  |        | Shallop *Aviza* of 1725 (1958)  
      |        | Related material: file R139, slide tray 3, half model, scrapbooks 9, 12, 16  
      |        | Copies of sail plan; notes concerning materials and fastenings (1959); yard parral and profile (pencil sketches); offsets on frames-half breadths; notes; photographs of vessel through construction and at sail; article by WAB. |
| 26  |        | Colonial Sloop (1959)  
      |        | Related material: scrapbook 12  
      |        | Profile graph and plan estimate. |
| 27  |        | Colonial Bark ca. 1640 (1960)  
      |        | Related material: design notebook A, second donation files, scrapbook 12  
<pre><code>  |        | “Appendix A--Rigging Specifications”; plan for anchor; study of characteristics of Ralamb’s *Gay*; article on art and yacht design. |
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<td>Chebacco Boat ca. 1770 (1961)</td>
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<td>“Notes from the History of the Town of Rockport, 1888”; copies of plans from Sloops and Shallops; notes.</td>
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<td>24’ Shallop Answer (revised) of 1600’s (1961)</td>
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<td>Related material: design 24, design notebook A, scrapbook 12</td>
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<td>Copies of plans; specifications; notes; lines and profile drawings.</td>
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<td>Copenhagen Ship (1961)</td>
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<td>Related material: file R139</td>
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<td>Correspondence; photocopy of ship plan; articles and notes; lines drawings, graphs, sketches and notes.</td>
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<td>Merchant Vessel Welcome of 1682 (1962)</td>
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<td>Research: brochures; articles; correspondence; notes and sketches.</td>
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<td>Design: “Final Report on Project” (1971); preliminary specifications (1963); notes, sketches and graphs; copies of plans.</td>
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<td>Newburyport Hawksnest Model of 1690 (1963)</td>
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<td>Related material: file R140, drawer O-2, scrapbook 12</td>
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<td>Photographs of model; correspondence; notes by Howard I. Chapelle; tracings from model; notes and sketches.</td>
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<td>Friendship Sloop</td>
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<td>Two-Masted Boat East Hue &amp; Cry of the late 1800’s</td>
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<td>Related material: design notebook A, slide tray 3, second donation files, scrapbook 12</td>
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<td>Notes and graphs; cardboard cut-out.</td>
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<td>Packet Sloop Mayflower of 1823 (1964)</td>
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<td>Card; newspaper clippings; photographs; correspondence; brochure on the North River; 4 maps drawn by WAB of the North River area; North River Notes by WAB; notes.</td>
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<td>Sloop ca. 1838 (1965)</td>
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<td>Topsail Schooner <em>Gaspee II</em> of ca. 1765 (1967) Related material: file R140, slide tray 3, second donation files, scrapbook 13 Negatives of plans; photographs of model; copies of plans; details sketches; notes, lines and articles; preliminary specifications (1968).</td>
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<td>III 40A</td>
<td>Pinnace <em>Deliverance</em> of 1610 (1967) Related material: drawer O-2, slide tray 3, second donation files, scrapbook 13 Color photographs showing damage to vessel; card by WAB; correspondence, rigging specifications; notes, lines and graphs; survey report on port side planking and port side structural members carried out at the behest of the Bermuda Junior Service League, St. George’s, Bermuda (1979); “<em>Deliverance</em>: Work in Progress and a Projection of Work for 1980”.</td>
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<td>American Revolutionary War Schooner <em>Hannah</em> of ca. 1776 (1968) Related material: drawer O-2 Photographs of half model; correspondence; notes, sketches, lines; news clippings; reproduction of <em>Colony Ledger</em> of 1775 from the Marblehead Historical Society; articles; proposal for <em>Margaretta</em>, a vessel similar to <em>Hannah</em> (1974).</td>
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<td>Ship <em>Carolina</em> of 1670 (1968) Related material: file R140, design notebook A, slide tray 3, drawer O-2, second donation files, scrapbooks 8, 13, 16 Photographs of model; copies of plans; detail sketches; notes; a history of the <em>Carolina</em>; copies of the 1926 model plans; prospectus for a model of the ship <em>Carolina</em> of 1670; copies from the South Carolina Historical Society of The Shaftsbury Papers; the <em>Carolina</em> fleet; copies of early maps of Charleston Harbor; “lists of ships found in connection with <em>Carolina</em>, 1670-1700”; brochure on <em>Carolina</em> and <em>Adventure</em>.</td>
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| 43-1 |        | Colonial Trading Ketch *Adventure* of 1670 (1969)  
Related material: file R140, design notebook A, slide tray 3, oversize box I, second donation files, scrapbooks 8, 13, 16  
Design: notes, graphs, lines; report from Herreshoff and Kerwin, Inc.; sketches, details and flags. |
| 43-2 |        | Photographs: at sail and showing damage to vessel; copies of plans and cards; brochure on *Adventure* and *Carolina*; brochure and advertisement for Charles Town Landing; articles. |
| 43-3 |        | Photographs: including photograph of the *Adventure* stopped near a surfaced submarine. |
| 44   |        | Schooner *Pilot* (1971)  
Related material: slide tray 3, drawer O-2, scrapbooks 10, 13  
Photograph showing new rig; correspondence; notes; Herreshoff and Kerwin report. |
| 45   |        | Gondola (1972)  
Related material: second donation files  
“A Study of Gondola’s for the Society for the Preservation of Historic Landmarks in York County [Maine, Inc.]” (1972); notes on scow sloops. |
| 46   |        | Dutch Model Whaleship of the 1600’s (1972)  
Correspondence; notes on rigging and masts. |
| 47   |        | Shallop in Halves of 1602 (Gosnold’s Shallop, for *Concord*)  
Related material: design 48, design notebook A  
Correspondence; sketches; notes; reproduction of drawing of “*Concord’s* shallop. After Wall.” |
| 48   |        | Bark *Concord* of 1602  
Related material: design 47, design notebook A, slide tray 3, second donation files, scrapbook 13  
Copies of plans; correspondence; notes on rigging and sails; sketches of masts; notes on decks, heights and scantlings; pencil profiles and copies of vessel sketches. |
| IV 49 |        | Brig *Beaver II* of 1773 (1972)  
Related material: design notebook A, slide tray 3, second donation files, scrapbooks 10, 13  
Photographs showing rig; vessel history; correspondence; interior drawing, figurehead and details; notes; words to “Revolutionary Tea” song. |
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| 50  |        | Frigate *Essex* of 1799 (1972)  
Related material: design notebook A, drawer O-2, second donation files, scrapbook 13  
Notes; copies of historical plans for *Chesapeake*; “Dimensions” data from Essex Papers, Peabody Museum (1977); copies of Josiah Fox papers, Peabody Museum. |
| 51  |        | Tobacco Ship *Brilliant* of 1775 (1974—hull only)  
Related material: design notebook A, drawer O-2, oversize box I, slide tray 3, second donation files, scrapbook 13  
Photographs of model; copies of plans and sketches; correspondence; notes on offsets. |
| 52  |        | Whaleboats *Middlesex* and *Henry Scudder* of 1776 (1974). This file relates to the *Middlesex*, which was the original vessel built. The *Henry Scudder* was later built by a different organization from the same plans. See “The Whaleboat *Middlesex* Technical Notes” by WAB in Nautical Research Journal: vol. 29, no. 3, September 1983  
Related material: slide tray 3, second donation files, scrapbooks 9, 13  
Photographs of vessel under construction and at sail; copies of the plans; notes; “Sources of Information on whaleboat Design or ‘Type’” and other historical notes; reproduction of a notice to General Washington regarding whaleboats; articles. |
| 53  |        | Longboat for *Brilliant* (51) of 1775 (1975)  
Related material: design notebook A, slide tray 3, scrapbook 13  
Original plans at Smithsonian Institution  
Reproduction of plans; correspondence; notes and sketches; copies of plans for a steel longboat. |
| 55  |        | Spanish Ship *San Esteban* of 1554 (1975)  
Related material: slide tray 3  
Correspondence. |
| 56  |        | North Sea Boat *Batchelor* of 1635 (1976)  
Related material: file R140, slide tray 3, second donation files, scrapbook 13  
Copies of plans; notes. |
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| 57-1 |        | Pinnace [Maryland] *Dove* of 1634 (1976)  
      |        | Related material: design notebook A, slide tray 3, second donation files, scrapbooks 11, 13, 20  
      |        | Brochure on vessel; “A Note on the Rig of the DOVE”; sketches and drawings; notes; specifications; copies of historical maps; articles; notes on *Ark* and *Dove* models; report on hydrostatic and righting arm calculations from Herreshoff & Kerwin (1977). |
| 57-2 |        | Photographs. |
| 58  |        | Whaling Bark *William Baylies* of 1886 (1976) |
| 59  |        | Steam Whaling Bark *North Star* of 1881 (1976)  
      |        | Original plans at the New Bedford Whaling Museum  
      |        | Notes; “The Class of Steam whalers”; vessel notes on converted steam whalers; “The Development and Design of Arctic Whaling and Sealing Vessels” by Howard I. Chapelle; historical research. |
| 60  |        | Jolly-Wat *Parrot* of 1634 (1976)  
      |        | Related material: design 57, design notebook A, slide tray 3, second donation files, scrapbooks 11, 13  
      |        | Construction photographs; copies of plans; notes; sketch for leeboard. |
| V   | 61     | Fishing Schooner *Rose Dorothea* of 1905 (1977)  
      |        | Photograph; correspondence; brochure from Providence Heritage Museum; notes. |
| 62  |        | Cruise Schooner (1977)  
      |        | Related material: scrapbook 13  
      |        | Design proposal; notes and pencil sketches; plans from *Rudder* and *Yachting*; articles and newspaper clippings on cruise schooners. |
| 63  |        | Scribed Board (6’x2’) from The James Maxwell House, Warren, RI, for Massasoit Historical Association  
      |        | Ship draught on plank from the 1700’s (1977)  
      |        | Related material: scrapbook 13  
      |        | Photographs of plank; correspondence. |
| 64  |        | *Sparrow-Hawk* (1978)  
<pre><code>  |        | Related material: scrapbook 13 |
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| 66  |        | Western Rivers Keelboat (1978)  
Related material: second donation files  
Sketches and notes; reproduction of a page from *Boats and Boatbuilding* showing a sketch of a keelboat. |
| 67  |        | Weymouth Back River Gundalow (1978)  
Related material: second donation files |
| 68  |        | *Pleiades* Hawksnest Half Model of 1828  
Related material: drawer O-2  
Photographs of model and painting of the original; notes; 2 pages of tracings from the model.  
plan: side view/lines (not labeled) - roll file A3 |
| 69  |        | Schooner *Ernestina*/ex *Effie M. Morrissey* of 1894 (1978)  
Related material: drawer O-2, design notebook A, scrapbook 13  
Notes concerning her berthing, maintenance, and use; detail sketches; reproduction of sail plan; notes; brochures, articles and reports on the vessel. |
| 70  |        | Whaling Ship *Niantic* of 1835  
Related material: drawer O-2, second donation files, scrapbook 13  
Notes; sketches; correspondence; newspaper clippings; histories of the vessel; minutes of “*Niantic* meeting” (1978); memo: “Recommendations for Preservation of the Material Remains of the *Niantic* from the U.S. Government Museum Services (1978); photographs of the model of a merchant ship from 1830. |
| 71  |        | 24’ Pinnace ca. 1700-1750  
Related material: scrapbook 13  
Correspondence. |
| 72-1 |        | U.S. Brig *Niagara*  
Related material: drawer O-2, oversized box I, second donation files, scrapbook 13  
Original plans property of the Commonwealth of Pennsylvania  
Sketches and plans; correspondence, including a list of restoration work at flagship *Niagara*; preliminary report: restoration of the flagship *Niagara* - Erie, Pennsylvania (1962); specifications; preliminary study and survey; maintenance and condition report (1980). |
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<td>Notes; grant application; copies of the Chapelle plans from 1939.</td>
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<td>72-3</td>
<td>Photographs; brochures; “Perry's Victory Centennial Banquet” (1914) [booklet]; “Perry's Victory Centennial Souvenir” (1913); “The Building of Perry’s Fleet on Lake Erie, 1812-1813” by Max Rosenberg: Pennsylvania Historical and Museum Commission, 1974.</td>
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<td>73</td>
<td>44-Gun Frigate <em>U.S.S. Constitution</em> of 1797 (1980) Related material: design notebook A, drawer O-2, oversized box I, scrapbook 13 Photograph of the <em>Constitution</em> at sail ca. 1880; brochure on the vessel; securities prospectus—souvenir history of the <em>Constitution</em>; specifications for structural exhibits; sketches and notes; copies of historical documents (1794); material from the <em>U.S.S. Constitution</em> Museum.</td>
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<td>74</td>
<td>Spanish Galleon <em>Los Tres Reyes Magos</em> of ca. 1566 (1980) Related material: oversized box I, scrapbook 13 Original plans at St. Augustine (Florida) Restoration Foundation, Inc. Copies of plans; historical research; project description (ca. 1964); specifications; ship details.</td>
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<td><em>Elizabeth II</em> of 1584 (1980) Related material: design notebook A, drawer O-2, second donation files, scrapbooks 10, 13 News clippings; copies of plans; design and historical notes; newsletter on the vessel.</td>
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Vessel Designs: Plan List

I  Keel-Double Ender-Block Island Type model (1941) - see design file
II  Drawings destroyed
III  Drawings destroyed
IV  Pinky Type Hull (1942) - see design file
V  Tancook Whaler Type - drawings destroyed
VI  Tancook Whaler Type (1943) - see design file
VII  Tancook Whaler Type model (1943) - see design file
IX  Model (1945) - see design file
X  Tunnel Stern Scow-Plywood, 2 drawings (1946) - plans in drawer SO-3
   X-1 Roll file A4
XI  Bay and River Freighter (1946) - plans in drawer SO-3
XII Plywood Kayak (Oribin) (1946) - plans in drawer SO-3
13  Ketch (1947) - plans in drawer SO-3
   1 Lines
   2 Construction plan
   3
   4 Sail plan
14  Twin Screw Cruiser-Steel (1948) - plans in drawer SO-3
   1 Lines
   2 Construction plan
   3 Arrangement plan
   4 Outboard profile
14-B Columbia River Lightship (1948) - plans in drawer SO-3
   Lines
   Outboard profile
   Inboard profile
   Deck plans
14-C Reconstruction plans for Roald Amundsen’s Gjøa - plans in drawer SO-3
   Original plans deposited at Peabody Museum of Salem (1950s)
   Prints at Smithsonian Institution and Oslo Marine Museum, Norway
   1 Present condition of hull
   2 Midship section
   3 Inboard profile and deck plan
14-C

4 Main house, hatches and skylight
5 Outboard profile
6 Arrangement of rigging
7 Forward windlass
8 13 horse power "dan" type petroleum engine
9 Midship winch, fire rail and pump gear specifications

14-D  *Petroleum No. 3 (1949)* - plans in drawer SO-3

1 Lines
2 Outboard profile

14-E  Reproduction of *Mayflower* (1951-1958) - duplicate plans in drawer SO-3


Original plans owned by Plimoth Plantation, except sail plan which is used with three plans redrawn from building plans for which copyright is held by WAB

Preliminary plans and specifications (April 1952)

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Final plans and specifications

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Guide to The William A. Baker Collection

15 Catboat (1955) - plans in drawer SO-3
   1 Lines (November 2, 1957)

16 Shallop (1955-1957) - duplicate plans in drawer SO-3
   Client: Plimoth Plantation, Inc., Plymouth, Massachusetts
   Original plans owned by Plimoth Plantation
   16-1 Lines (September 14, 1955)
   16-2 Construction plan (September 26, 1955)
   16-3 Sail plan and miscellaneous fittings (January 15, 1956)
   Rigging notes

17 Longboat (1955) - duplicate plans in drawer SO-3
   Client: Plimoth Plantation, Inc.
   Original plans owned by Plimoth Plantation
   17-1 Lines
   17-2 Construction plan

18 Pinnace Virginia (1957) - plans in drawer SO-3
   Sketches and notes for G.F. Cary, Bath Iron Works
   Special stamp based on this design issued by post office, August 15, 1957

19 Cruising Yawl (1957) - plans destroyed by WAB (see design 23)
   Client: Leighton F. Johnson, Jr.
   19-H-1P Lines
   19-A-1P Arrangement
   19-R-1P Sail plan

20 Cruising Yawl (1957) - no plans

21 Gondola/Gunboat Philadelphia (1958) - plans in drawer SO-3
   Client: Fort Ticonderoga Association, Ticonderoga, New York
   Model built by Erik Ronnberg, Jr.
   21-1 Lines
   21-2 Construction plan
   21-3 Typical hull sections and rigging details

22 Catboat (1957-1958) - plans in drawer SO-3
   22-1 Lines

23 Yawl (1958) - plans in drawer SO-3
   Client: Leighton F. Johnson, Jr.
   23-H-1P Lines (23-1 final)
   23-A-1P Arrangement (23-2 final)
   23-R-1P Sail plan (23-5 final)
   23-3 Scantling plan
   23-4 Typical sections
   23-6 Miscellaneous structural details
   23-7 Spars and rigging details
24 21 foot Shallop *Answer* (1958) - plans in drawer SO-3
See design 29
- 24-1 Lines
- 24-2 Construction plan
- 24-3 Sail plan and miscellaneous fittings

25 Shallop of 1725 (1958) - duplicate plans in drawer SO-3
Client: Captain Richard Blackburn Black, USNR, Rippon Lodge, Woodbrige, Virginia
- 25-1A Lines (25-1 final)
- 25-2A Construction plan (25-2 final)
- 25-3A Portable house (25-3 final)
- SK. A Sail plan (25-4 final)
- 25-5 Square sail

26 Colonial Sloop (1959) - no plans?
Client: Alden Johnson

27 Colonial Bark of ca. 1640 (1960) - plans in drawer SO-3
- Lines
- Arrangement and construction
- Sail plan

28 Chebacco Boat (1961) - plans in drawer SO-3
- Lines

29 24 foot Shallop *Answer* (revised) (1961) - plans in drawer SO-3
Client: Richard Nason
- 29-1 Lines and offsets (1962)
- 29-2 Construction plan (1962)
- 29-3 Sail plan and miscellaneous fittings (1962)
- Specifications (1962)

30 Copenhagen Ship (1961) - plans in drawer SO-3

31 William Penn's *Welcome* (1962) - plans in drawer SO-3
Client: Philadelphia Department of Commerce, Port Division, for painting by H. Garrett Smith; *Pennsylvania* at William Penn Museum, Harrisburg, Pennsylvania (1963)
Preliminary studies (1962)
- SK-31A Lines
- SK-31B Sail plan
- SK-31C Midship section
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- 31-1-D Lines
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- 31-4-D Decks
- 31-5-D Rigging and sails
32 Newburyport Model of 1690 (1963)
   32-1 Refaired lines

33 Friendship Sloop (1964)
   Client: W. Partridge

34 Two-Masted Boat (1964) - plans in drawer SO-3
   Client: Winslow Myers
   Original plans owned by Maine Maritime Museum
   34-1 Lines
   34-2 Construction plan
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35 Mayflower of 1823 (1964) - plans in drawer SO-3
   North River (Massachusetts) Packet Sloop based on builder's model in Hart Nautical
   Museum
   Lines from model
   Arrangement
   Sail plan

36 Saint John Wood Boat (1965) - plans in drawer SO-3
   36-1 Lines from model

37 Saint John Wood Boat (1965) - plans in drawer SO-3
   37-1 Lines from model

38 Sloop of ca. 1838 (1965) L. M'Kay, Plate 5 - plans in drawer SO-3
   38-1 Lines

39 Delaware River Shallop of 1818 (1965) - plans in drawer SO-3
   39-1 Lines

40 Reproduction of Gaspée (1967) - plans in drawer SO-3
   Model for MIT built by Erik Ronnberg, Jr.
   40-1-D Lines
   40-2-D Construction plan
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40A Deliverance of 1610 (1967) - plans in drawer SO-3
   Client: Bermuda Junior League
   Dry-land waterline reproduction, hull plans by Cyril Smith, Bermuda
   Rigging plan

41 Reproduction of Hannah (1968) - plans in drawer SO-3
   41-1 Lines
Reproduction of Carolina (1968) - plans in drawer SO-3
Client: South Carolina Tricentennial Commission
Model built by Erik A. R. Ronnberg, Jr.

- 42-H-1 Lines (WAB)
- S-1 Midship section (WAB)
- S-2 Structural profile (P&McA.)
- S-3 Lower deck plan (P&McA.)
- S-4 Upper deck plan (P&McA.)
- S-5 Quarter deck/forecastle deck (P&McA.)
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- R-2 Tops and cross trees (P&McA.)
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- R-4 Miscellaneous rigging fittings (P&McA.)
- R-5 Weather deck plan/location of rigging fittings (belaying) (P&McA.)
- R-6 Athwart sections at fore, main, and mizzen-masts (P&McA.)
- F-1 Windlass and capstan (P&McA.)

Adventure (1969) - plans in drawer SO-3
Client: South Carolina Tricentennial Commission
Reproduction of late 17th century trading ketch

- 43-H-1 Lines and offsets
- 43-H-2 Typical sections
- 43-H-3 Construction plan
- 43-H-4 Transom
- 43-F-1 Miscellaneous fittings
- 43-F-2 Berths
- 43-R-1 Rigging plan
- 43-R-2 Masts and yards
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- 43-R-4 Belaying plan

Pilot [Burgess & Paine design] (1971) - plans in drawer SO-3
Client: W. Gordon Van Nes (new rig)

- 44-R-1 Sail plan
- 44-R-2 Spar plan

Gundalow/Gondola (1972)
Client: Society for the Preservation of Historic Landmarks, York County, Inc.
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46 Dutch Model (1972) - plans in drawer SO-3
Client: Kendall Whaling Museum
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47 Shallop in Halves (1972) - plans in drawer SO-3
Client: Old Dartmouth Historical Society
Original plans at New Bedford Whaling Museum
   lines, construction, sail and details (1 sheet)

48 Reproduction of Concord (1972) - duplicate plans in drawer SO-3
Client: Old Dartmouth Historical Society
Original plans at New Bedford Whaling Museum
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   Profile and sections (yards)
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   Sail plan (masts)
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49 Beaver (1972) - plans in drawer SO-3
Client: Boston Tea Party Ship Inc.
Converted Baltic Galeal
   49-1 Rigging profile and sections (negative in roll file B3)
   49-2 Masts, tops, caps and crosstrees
   49-3 Yards, boom and gaff
   49-SK1 Belaying sketch
   49-4 New transom (void)
   49-5 General arrangement
   49-6 New transom
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   49-SK3 Cupboard berths
   49-7 Arrangement, details: master’s, mate’s and great cabins (1980)
   Rigging specifications including sails

50 Essex (1972) - duplicate plans in drawer SO-3
Client: Peabody Museum of Salem
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   Decks (final)
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51 *Brilliant* (1974) 1775 Tobacco Ship - duplicate plans in drawer SO-3
Client: Smithsonian Institution
Original plans owned by the Smithsonian Institution

- 51-1 Lines
- 51-2 Inboard profile and sections
- 51-3 Decks
- 51-4 Arrangement of framing
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Specifications

52 Whale Boat of 1776 (1974) - plans in drawer SO-3
*Middlesex* - Darien Historical Society (Connecticut)
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- 52-1 Lines
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53 Long Boat of 1775 (1975) for *Brilliant* - plans in drawer SO-3
Client: Smithsonian Institution

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54 Yawl Boat for *Brilliant*

55 *San Esteban* (1975)
Client: Texas Antiquities Committee

Report on a 1554 wreck and salvaged pieces

56 *Batchelor* of ca. 1635 (1976) - plans in drawer SO-3
Client: Batchelor Society, Ltd.

- 56-H-1 Lines and offsets
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- 56-SK-1 Profile (1977); preliminary profile A-B-C-D-E (1976)

57 *Dove* (1976) - plans in drawer SO-3
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- 57-H-1 Lines and offsets
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- 57-F-1 Miscellaneous fittings
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- 57-R-1 Sail plan (negative in roll file B5)
- 57-R-2 Masts and spars
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Specifications, Miscellaneous sketches
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58  *William Baylies* (1976)
Client: Old Dartmouth Historical Society
Lines from model

59  *North Star* (1976)
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60  *Parrot* boat (jolly wat) for the *Dove* (1976) - plans in drawer SO-3
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60-2 Construction plan
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61  *Rose Dorothea* of 1905 (1977) - plans in drawer SO-3
Client: Provincetown Association, Inc.
61-H-1 Lines and offsets (above water only)

62  Cruise Schooner (1977)
Client: Paul H. Dunn
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Preliminary sail plan

63  Ship Draught on Plank - plans in drawer SO-3
H-1 Roll file A1, negative in roll file B3
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64  *Sparrow-Hawk* (1978)
Client: Pilgrim Society, Plymouth, Massachusetts
64-1 Sail plan


66  Keelboat (1978) - plans in drawer SO-3
Client: Company of Keelboatmen
66-SK-1 Study - lines and construction plan
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67  Weymouth Back River Gundalow (1978)
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68  *Pleiades* of 1828 (1978), Hawksnest half model
Study plan (incomplete, unsigned, undated)
69  *Ernestina/Effie M. Morrissey* (1978) - plans in drawer SO-3  
Client: National Trust for Historic Preservation  
SK69-1  Sail plan comparison  
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Bow detail (1980)

70  *Niantic* - plans in drawer SO-3  
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71  24 foot Pinnace ca. 1700-1750 (1979) - plans in drawer SO-3  
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71-1  Sail plan

72  *Niagara* (1979) - duplicate plans in drawer SO-3  
Client: Commonwealth of Pennsylvania Historical and Museum Commission  
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72-1  Main deck  
72-2  Masts, bowsprit and jibboom  
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72-4  Standing rigging  
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72-6  Rigging profile (negative in roll file B4)  
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73  *U.S.S. Constitution* (1980) - plans in drawer SO-3  
Client: U.S.S. Constitution Museum Foundation  
73-SK-1  Proposed structural exhibits  
73-H-1  Gun deck  
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74  *Los Tres Reyes Magos* (1979) - duplicate plans in drawer SO-3  
Client: St. Augustine Restoration Foundation, Inc.  
Original material sent to St. Augustine Restoration Foundation, Inc.  
74-SK-1  Outline profile and sections  
74-SK-2  Outline profile and sections  
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74-SK-6  Lines  
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74  74-H-1  Lines
    74-H-2  Offsets
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    74-S-2  Structural profile
    74-S-3  Main deck
    74-S-4  Upper deck
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Elizabeth of ca. 1584 (1979) - duplicate plans in drawer SO-3
Client: American Quadricentennial Corporation, Chapel Hill, North Carolina
Plans completed by Stanley Potter
Preliminary plans
  75-1-D  Lines
  75-2-D  Arrangement and construction plan
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  75-SK-1  Profile - single deck
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• pencil plan - roll file B6

Gracie S., San Francisco pilot boat - 3 plans
• lines and profiles - roll file C2

Figures from The New Mayflower and its model kit - drawer O-5

Illustrations from books - drawer 0-5

15’ - 6” waterlength boat, no date
• pencil sketch - drawer O-5

Port Royal of 1670 (1973)
• pencil sail plan - drawer O-5

Flying Cloud (1951)
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Boat built by Chester F. Spear, Scituate, 1939
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MIT student plans and sketches, 1932-1934 - drawer Z-3
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• 40 ft. LWL sloop: lines. MIT course XIII (1932)
• 40 ft. LWL sloop: accommodation plan (1932)
• 40 ft. LWL sloop: construction plan, class “N” (1932)
• Sail plan: class “N” sloop (1932)
• Lines (January 19, 1933)
• Inboard profile (1933)
• Midship section showing solid floor construction and superstructure (1933)
• Fore peak bulkhead and bow framing (1933)
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• I.P. piston engine M-8 (1933)
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• Cargo gear (no date)
• Senior year project: 21 knot coastwise steamship (1934)
• Piping diagram (1934)
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• Suction and discharge piping (1934)
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• Unidentified sketch: lines (no date)
• “Marine engine valve design” (no date)
• Zeuner valve diagram (1934)

3 matted pen and ink sketches of vessels - drawer Z-3
• 3 masted ship (1937)
• Brig *Reaper of Salem* of 1823 (1937)
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<td>Poster (1968): continental armed schooner, 1775 with sail plan, lines and history.</td>
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<td>Reproduction of original Humphrey plans (12th century): profile and midship section.</td>
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<td>Reproductions of 3 plans redrawn by Greg Platzer.</td>
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Niantic
Plans as she was found May, 1978, at Sansome and Clay Streets, San Francisco, cross-sections of the Niantic, looking forward

Niagara
7 contract drawings by Meyers, Krider, Werle & Ellenberger, Erie, Pennsylvania (1963); 4 Chapelle plans (1939)

U.S.S. Constitution
Print of Boston Harbor from Constitution Wharf by Robert Salmon from the U.S. Naval Academy Museum; Print of “Old Ironsides” by Charles Robert Patterson (1925)

Elizabeth II
Reproductions of 19 Stanley Potter plans (ca. 1982)
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Merchant vessels (1627)  
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Designs: 14E, 16, 17, 27, 29, 31, 34, 42, 43, 47, 48, 49, 50, 51, 53, 57, 60, 73, 75 |
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**Notebooks: Small Books**

**Book 1** Lecture and recitations notes from physics classes at MIT (1930-1932)

**Book 2** MIT Course XIII notes (1931-1934)

**Book 3** MIT and BSC Notes
Areas, volumes, moments, integration rules; geometry of ships; capacities, tonnage and load lines; transverse stability; longitudinal stability; subdivision of ships; strength of ships; launching and dry docking; rolling and pilching; turning of ships; speed and power; propellers; design and estimating

**Book 4** BSC Workbook
Notes; figures; historical information and sketches on ship construction; naval architecture; ship design; marine engineering; and special welding notes

**Book 5** BSC Notebook
Naval architecture formulas and notes; steering; charge numbers; hull and project numbers; hull numbers with information including vessel name and client for Fore River, Sparrow’s Point, San Francisco, Staten Island, and San Pedro Yards; tankers sketches and figures from *Shipbuilding Cyclopedia* (1920)

**Book 6** BSC
Notes, sketches, lists of ships, some historical information on yard equipment; loss of weight in paints; naval architecture formulas; sketches of hull numbers 4306, 4337, 1474, 4332; old vessels from A.B.S. (1940); C-3 ships converted to airplane carriers; figures of tankers; sketches of engine rooms and boiler rooms; welding

**Book 7** BSC
Figures, notes with vessel numbers, and sketches on airports; areas of lightening holes; anchor gear; ballast material; boats and boat handling; weights; booms, kingposts and masts; deck covering; deck machinery; doors; electrical; hatch covers; deck outfits; hull fittings; insulation; joiner work; ladders; manholes

**Book 8** Baker Designs
Notes, sketches, graphs and figures on early shipbuilding and rigging; items from Paine’s Catalogs; Pilgrim ships; *Vasa*; nautical references; lists of vessels; disposition of old Fore River plans, after World War II; hours spent on plans for *Mayflower II, Welcome, Hannah, Dove,* and *Susan Constant* (not a WAB design)

**Book 9** Design List
Plan index by number; plans and vessel information; lists by type of vessel (large vessels, rigging, reconstruction, small craft, for models, for illustrations)
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❖ Series Description ❖

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Box 2 Early vessels - Japanese scrolls - navigational aids - steamships
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Box 4 Lectures and historical shows
Box 5 Lectures
Box 6 Research: vessels
Box 7 Travel: Puerto Rico - Bahamas, Bermuda, shallops
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PUBLICATIONS AND LECTURES

PUBLICATIONS AND LECTURES: WRITINGS AND PUBLICATIONS

Drafts of articles published in Mariner’s Mirror:
“Pity the Welder.” Marine Engineering March 1939.
“Shipbuilding in Colonial America by Joseph A. Goldenberg.” Technology and Culture 17 (1976)
Publications and Lectures: Conferences and Lectures


Lectures, 1960-1980

“American Vessels Prior to 1800”
“Chinese Craft: North to South”
“Gold in California”
“Maritime Preservation”
“The Market Boats: The Coastal Trade North of Cape Cod”
“Ships of the 17th Century”


“The Preservation of Chesapeake Bay Watercraft.” Annapolis: SNAME Chesapeake Bay Sailing Yacht Symposium, January 1977.


Publications and Lectures: Second Donation Material

Albion Festschrift (1974-1975)
Bath History: publicity, reviews, comments (1966-1980)
Bath History: correspondence (1966-1981)
Colonial Vessels reviews (1962-1965)
Engine Powered Vessels publicity (1965-1969)
Gateway to the Sea exhibit (1980)
Lectures (1957-1980)
Lecture papers (1950's, 1978-1979)
Lore of Ships/Lore of Sails (1963-1965, 1983)
Manuscripts: writings and lectures (1940's-1980)
Mayflower II publications (1955-1956)
Mayflower and Other Colonial Vessels manuscripts
Mayflower and Other Colonial Vessels illustrations
Mayflower and Other Colonial Vessels Conway Maritime Press (1982-1983)
The New Mayflower reviews and correspondence (1955-1975)
Old Dartmouth Historical Society Seminar on whaling (1972)
Schooner Symposium (1973)
Seafaring in Colonial Massachusetts (1975)
The Second Mayflower by Charlton (1957)
Sloops & Shallops manuscripts.
"Development of Wooden Ship Construction." (SNAME, 1955)
"On the Development of Ship Forms." (SNAME, 1947)
New England section of SNAME (1942-1950)
Honorary membership in SNAME (1980)
SNAME Discussions (1938-1976)
Steam Whaling in the Western Arctic (1977)
Hart Nautical Collections: 6 files

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**SCRAPBOOKS**

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<td>Travel: news clippings, photographs (1972-1973)</td>
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<td>Travel: Europe (volume I, 1952-1958), including <em>Mayflower II</em></td>
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MEMORABILIA

- Carved wooden knife
- Animal horn
- Bethlehem Steel pay stubs (1934–1935)
- Boy Scout certificates (1925)
- Insignia, 2 containers
- Registered Engineer, Boy Scouts, Bethlehem Steel, and Delta Upsilon cards
- St. Olav's Medal.
- 2 Eagle Scout badges
- Red, white and blue triangular signal flag
- Red and white ribbon
- Boy Scout merit badge sash
- Label: Baker, Wm. 22-11
- Masonic decree for Elisha A. Baker (1847)
- “Citizens Military Training Camp” (1932)
- 2 certificates from the Massachusetts Department of Education (1937, 1941)
- 2 pamphlets from WAB's high school graduation exercises (1927, 1930)
- Delta Upsilon invitations (1930)
- Sketch of Camp Keemosahbee (no date)
- MIT medallion
- Drafting instrument
- Wooden keel from a model
- Wooden model of dugout canoe for ketch *Adventure* (1970)
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✦ A P P E N D I X  A ✦

- L I B R A R Y  C O L L E C T I O N -

L I B R A R Y  C O L L E C T I O N :   B O O K S

Attwood and Copper.  A Textbook of Laying Off or the Geometry of Shipbuilding.  1918.
Brewington.  Chesapeake Bay: A Pictorial Maritime History, 1956, with insert pamphlet by Brewington on Chesapeake Bay Sailing Craft, 1966.
Danske bedtyper opmalt og beskrevet af Christian Nielsen (with a summary in English “Danish Coastal Boat Types”) Host & Sons Forlag, [1974].
Davis.  Ship Model Builder's Assistant.  1955.


Tyler.  *Steam Conquers the Atlantic.*  1939.


LIBRARY COLLECTION: PAPERS, PAMPHLETS AND JOURNALS

The Engineer. January 5, 1872.
The Engineer. Vol. XL, No. 1, January 1, 1903; Vol. XXXIX, No. 8, April 15, 1902.
The Engineer. Vol. XXXVIII, No. 529, June 15, 1901.
**APPENDIX B**

- **PLAN INVENTORIES -**

**PLAN INVENTORIES: ROLL FILE**

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113-10709 Lines, displacement and other curves (taken from ship) |
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The Second Mayflower by Charlton (1957)
Sloops & Shallops manuscripts.
"Development of Wooden Ship Construction." (SNAME, 1955)
"On the Development of Ship Forms." (SNAME, 1947)
New England section of SNAME (1942-1950)
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• 2 Eagle Scout badges
• Red, white and blue triangular signal flag
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• Label: Baker, Wm. 22-11
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• “Citizens Military Training Camp” (1932)
• 2 certificates from the Massachusetts Department of Education (1937, 1941)
• 2 pamphlets from WAB’s high school graduation exercises (1927, 1930)
• Delta Upsilon invitations (1930)
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• Drafting instrument
• Wooden keel from a model
• Wooden model of dugout canoe for ketch *Adventure* (1970)
PORTFOLIO

- Certificate for St. Olav's Medal (1949)
- 7 cards by WAB showing Barque Tryal of Boston from 1690
- Sloops & Shallops: 35 original drawings and sketches with lists by WAB
- Colonial Vessels: 50 original drawings redrawn or copied for Mayflower and Other Colonial Vessels by WAB.
- Certificates (1931-1990)
- Photograph of Adventure and Dove in Maryland (1980)
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- Clipping from The Patriot Ledger (November 6, 1969)
- Certificate to WAB for designing Middlesex (1975)
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7  Travel: Puerto Rico - Bahamas - Bermuda - shallops
8  Travel: England and Mayflower II - Greece - Yugoslavia
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**Library Collection: Books**


Hingham Yacht Club 50th Anniversary Year Book. 1895-1945.

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Report of the South Carolina Tricentennial Commission.


79
*Yachts by Herreshoff.* Bristol, Rhode Island: Herreshoff Manufacturing Corporation, no date.
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