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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THE WILLIAM A. BAKER COLLECTION
Papers, 1925-1991

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.

S C O P E  A N D  C O N T E N T  N O T E

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
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)
arranged 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.
# SERIES DESCRIPTION

- SERIES I -
RESEARCH AND REFERENCE

## Research and Reference: Files

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<td>R1</td>
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<td>“A Ship of the Roman Period from Blackfriars in the City of London” [booklet]</td>
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<td>R3</td>
<td>“Recent and Early Information about Ancient and Medieval Ships” by Elliot Snow</td>
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<td>R4</td>
<td>15th century ship design</td>
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<td>R5</td>
<td>Nina and Santa Maria (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>R7</td>
<td>“Early Shipbuilding in Colonial New Spain, 1519-1565” by William Collins (1964) [manuscript thesis]</td>
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<td>Matthew Baker notebook, ca. 1585 (see also Research and Reference photograph book 2)</td>
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<td>“Instruccion Nautica of 1587” by de Palacio; translated by J. Bankston</td>
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<td>“Del Arcano Del Mare Del Duca di Nortumbria Libro Quarto” (see also microfilm box 4f)</td>
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<td>Sketches of vessels from the log of drawer Thomas Browne, 1661-1662</td>
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<td>“Atlas de Colbert” (ca. 1663)</td>
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<td>“Doctrine of Navall Architecture” by Anthony Deane (1670) (see also oversize box I)</td>
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<td>“W. a Winschootens Seeman...” (1681)</td>
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| 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 |
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| 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) |

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| R56 |        | Lloyd’s list (1820) |
| R57 |        | U.S. 10-gun brig <em>Perry</em> (1840’s) [plans] |
| R58 |        | “Sail Plans Traced from the Notebooks of Sailmakers J.W. Loane &amp; Sons of Baltimore for 1840-1870” |
| R59 |        | <em>The S.S. Great Britain</em> (1843) |
| R60 |        | “Lines of Vessels Taken from Builder’s Half Models, 1850-1923” |
| R61 |        | Clipper ship <em>Flying Cloud</em> (1851) [plans] |
| R62 |        | Ship descriptions from <em>The Boston Atlas</em> (1851-1856) (see also Research and Reference photograph book 3) |
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| R65 |        | “The Voyages of ‘Norwest John’ ca. 1860” [manuscript] |
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VIII | R128-R148 | Gateway to the Sea Exhibit, WAB Personal, Howard I. Chapelle |
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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 gravée par Baugean. Composee de soixante-douze planches et accompagnée 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)
- French gunships
- T. B. card collection (prints and negatives)

Book 2

- 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)
Book 3

- *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 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)
- Anthony Deane (1670)
- 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 14E): 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

Steam whale boat for U.S. Coast and Geodetic Survey (1892)
   1339-39792  Deck plan and profile (drawer SO-1)
   1339-39787  Shear, half breadth and body plans (drawer SO-1)
   1339-35791  Midship section (drawer SO-1)

28 ft. whaleboat gig U.S. Armored Coast Defense Vessel
   1339-39797  Lines, arrangement and sail plan (drawer SO-1)

30 ft. gig whaleboat (1891) for Oregon and Olympia
   1339-39794  Arrangement (drawer SO-1)

18 ft. dinghy (1899) and 28 ft. steam whaleboat (1889)
   1339-39793  U.S. Armored Coast Defense Vessel (drawer SO-1)

29 ft. whaleboat for Olympia
   1339-39784  Lines, arrangement and sail plan (drawer SO-1)

32 ft. launch for Oregon
   1337-39772  Arrangement and sail plan (drawer SO-1)

32 ft. launch for Olympia
   1337-39771  Lines, arrangement and sail plan (drawer SO-1)

32 ft. launch, Protected Cruiser No. 6
   1337-39768  Lines, arrangement and sail plan (drawer SO-1)

20 ft. dinghy, Protected Cruiser No. 6
   1335-39762  Lines, arrangement and sail plan (drawer SO-1)

29 ft. whaleboat for Oregon and Olympia
   1339-35790  Lines (roll file C3)

30 ft. gig whaleboat for Oregon and Olympia
   1339-39785  Lines (roll file C3)

32 ft. launch for Oregon
   1337-39769  Lines (roll file C3)

20 ft. dinghy for Oregon and Olympia
   1335-39761  Lines (drawer SO-1)

14 ft. dinghy for Chitose, Japanese cruiser (1897)
   1335-39758  Arrangement and construction (drawer SO-1)
   1335-39759  Lines (drawer SO-1)
   1335-39760  Sail plan (drawer SO-1)

Steam launch (U.S.A.T.) plan 1334-39750 (drawer SO-1)
30 ft. steam cutter, plan 1333-39750 (drawer SO-1)

28 ft. cutter (1891) for Oregon
1332-39713 Lines, arrangement and sail plan (drawer SO-1)

26 ft. cutter for Oregon, plan 1332-30709 (drawer SO-1)

26 ft. cutter for Oregon, plan 1332-39706 (drawer SO-1)

24 ft. cutter (1891) for Oregon
1332-39705 Lines, arrangement and sail plan (drawer SO-1)

28 ft. cutter (1894)
1332-39705 Arrangement and sail plan (drawer SO-1)

10" turret mount, 10 plates (drawer SO-1)

U.S.S. Milwaukee (1906), cruiser
7225 Accommodation ladders - schedule (drawer SO-1)
7226 Accommodation ladders - details (drawer SO-1)
7227 Accommodation ladders - general arrangement (drawer SO-1)

Cruiser No. 5 (1889)
1470-42198 Berth deck planking (roll file C4)

Wyoming (1903), monitor
1315-39283 Side armor bolts (drawer SO-1)
347-5045 Awning and rigging plan (drawer SO-1)

Charleston (1889), cruiser
1398-41056 Shell expansion (roll file C5)
1398-41059 Upper and main deck plating (roll file D2)

Oregon (1896), battleship
1451-41952 Section between floors 31 & 32 (drawer SO-1)
1322-39528 Sections - belt armor (drawer SO-1)

R. & W. Hawthorn, Leslie & Company (builders): Lena, Russian Volunteer Fleet auxiliary cruiser (1896)
378-6912 Midship section (drawer SO-1)
378-6913 Inboard profile (drawer SO-1)
378-6935 Outboard profile (drawer SO-1)
378-6936 Poop, bridge and focsle (drawer SO-1; see also roll file A6)
378-6937 Upper deck (see also roll file A6) (drawer SO-1)
378-6938 Lower, main and upper decks (drawer SO-1)
378-6939 Lines, sheer draught (see also roll file A6) (drawer SO-1)

Santa Rosa (1898), for Pacific Coast S.S. Company
392-3754 Arrangement of decks and profile (oversize rolled)
Proposed stern wheel steamer (1903)
1483-42402 Arrangement of decks and profile (drawer SO-1)
1483-42403 Longitudinal and midship sections (drawer SO-1)
1483-42406 Profile and deck plan (drawer SO-1)

Proposed express steamer (1902)
396-10956 Arrangement of decks (drawer SO-1)
396-10957 Profile (oversize rolled)

Proposed steamer (1904)
396-10965 Profile and decks (oversize rolled)
396-10966 Midship section (oversize rolled)

Otto Gildermeister (1901) rigging details -- 22 plans
242-3887 Lower topsail yard crane and sling (oversize rolled)
242-3888 Royal sling and mast band (oversize rolled)
242-3896 Mizzen mast cap (oversize rolled)
242-3897 Details of rigging (oversize rolled)
242-3898 Main mast head (oversize rolled)
242-3899 Details of rigging (oversize rolled)
242-3900 Upper top gallant sling and mast band (oversize rolled)
242-3902 Fore and main topmast cap (oversize rolled)
242-3903 Upper topsail crane and sling and mast band (oversize rolled)
242-3882 Rigging bands (drawer SO-1)
242-3883 Royal yard-arm bands (drawer SO-1)
242-3884 Main yard (drawer SO-1)
242-3885 Fore yard (drawer SO-1)
242-3886 Mizzen top (drawer SO-1)
242-3889 Inner quarter band-lower topsail yard (drawer SO-1)
242-3890 Details of forgings-rigging for fore mast trestle, trees and mizzen top
(drawer SO-1)
242-3891 Inner quarter band/upper topsail yard (drawer SO-1)
242-3892 Outer quarter band/upper topsail yard (drawer SO-1)
242-3893 Fore and main tops and cross trees (drawer SO-1)
242-3894 Yard arm bands (drawer SO-1)
242-3895 Sheet band-spanker boom (drawer SO-1)
242-3901 Lower top gallant crane (drawer SO-1)

7 master schooner to carry oil in bulk
405-12103 Pumping arrangement (oversize rolled)
405-12094 Sheer—1/2 breadth and body plan (roll file C1)
405-12093 Rigging plan (drawer SO-1)
405-12095 Midship section (drawer SO-1)
405-12096 General arrangement (drawer SO-1)
405-12097 Section through machinery space (drawer SO-1)
405-12099 General arrangement of machinery space (drawer SO-1)
405-12102 Pumping arrangement (drawer SO-1)
Auxiliary schooner
405-56921 Lines plan (drawer SO-1)

S.S. Emerald (1886) boat no. 5, plan 1411-41326 (drawer SO-1)

Drumrock (1892) 4m. barque no. 108
362-6533 Midship sections (drawer SO-1)

Auxiliary schooner Flaurence Ward (1907)
373-15392 Lines plan (drawer SO-1)

S.S. Helene (1896) boat #47, plan 1419-4154+ (drawer SO-1)

Oil boat (#1416) for Pacific Coast Oil
1416-14110 Profile inboard, poop and forecastle deck, main deck (drawer SO-1)

Oparin (1901)
52-13106 General arrangement of 10” x 30” engines (drawer SO-1)

Stern wheel steamer (1906) S.S. Oparin, Zeja, Paistan, Siberia (drawer SO-1)

Color lithograph showing the Union Iron Works yard and late 19th century naval vessels ("White Fleet")

Columbia River (1891) (see also WAB design 14B)
451-5305 Details of boat gear, cat head, and rudder tiller (drawer SO-1)
451-5304 Spars (drawer SO-1)
451-5306 Spar work (drawer SO-1)

S.S. General McDowell (1886)
415-41386 Lines plan (drawer SO-1)

S.S. Izabal (1896) 200 ton waterboat, plan 1420-41460 (drawer SO-1)

S.S. Maui (1897), plan 1419-41552 (drawer SO-1)

#580 steam yacht El Primero (1893), plan 1410-41322 (drawer SO-1)

Proposed electric launch (1904)
1334-39733 Lines, profile and deck (drawer SO-1)

P.M.S.S. Peru (1903)
1464-41149 Proposed re-arrangement/profile and decks (drawer SO-1)

S.S. St. Paul
406-5443 Passenger accommodations (drawer SO-1)

Drummuir
242-3178 Rigging plan (drawer SO-1)
Guide to The William A. Baker Collection

*S.S. Silver Gate* (1887) ferry boat
- 393-816 Lines (drawer SO-1)
- 393-817 Profile (drawer SO-1)

Freight cattle ferry boat (1889)
- 402-12196 Plan (drawer SO-1)
- 402-12198 Lines/profile (roll file C6)

*Encinal* ferry boat
- 800 Decks (drawer SO-1)

*Piedmont* passenger ferry no. 5
- 805 Body plan -- frame no. 61 (drawer SO-1)
- no # Deck and sheer plan (roll file D1)

*Tiburon* ferry boat (1893)
- 799 Profile and decks (drawer SO-1)

Freight ferry boat (1888), plan 402-12197 (drawer SO-1)

Beam engine/50” cyl. 11’ stroke, plan 541-18238 (drawer SO-1)

Direct acting pumping engine for New Almaden Mining #1046 (with b&w photograph attached to plan) (1882), plan 984-31284 (drawer SO-1)

Arrangement for propelling small duck boats (1886), plan 251-3420 (drawer SO-1)

Docking plan for steamer *Contra Costa* (BSC, 1920)

Lines plan for 30” full size model yacht, plan 373-64369 (drawer SO-1)

*S.S. Columbia*, No. 193 (1887)
- 1371-40627 Profile with cross section of decks (drawer SO-1)

Mud barge (1913)
- 344-14911 Elevations and framing of center timber for shaft fittings (drawer SO-1)

Proposed coasting steamer (1908)
- 373-10815 Profile, deck and sections (drawer SO-1)

*S.S. Hegira* reproduction of profile and deck plan (drawer SO-1)

Proposed twin screw steamer (1899)
- 395-10941 Profile and decks (drawer SO-1)

Proposed express steamer (1900)
- 396-10950 Decks and profile (drawer SO-1)
Paddle steamer for Sen. R. Fregerio Beunaventura (1902)
402-12051 Decks and profile (drawer SO-1)

Wood steamer launch (1888)
1334-39746 Profile, deck, and sections (drawer SO-1)

Proposed lumber schooner (1910)
404-12092 Inboard profile, decks and sections (drawer SO-1)

U.S. twin screw steel cruiser *San Francisco* (1888)
Blueprint of sail/rigging plan (drawer SO-1)

U.S. twin screw steel cruiser *Olympia* (1892)
Blueprint of sail/rigging plan (drawer SO-1)

U.S. battleship *Oregon* (1893)
Blueprint of sail/rigging plan (drawer SO-1)

U.S. Coast Defense Vessel *Monterey* (1891)
Blueprint of sail/rigging plan (drawer SO-1)

*S.S. Spokane* (1901)
no number Rigging details (drawer SO-1)
1438-42372 General arrangements (oversize rolled)

Barque *Annie Johnston* (1910)
113-10708 Profile and deck plan (roll file B1)
113-10709 Lines, displacement and other curves taken from ship (roll file B1)

Harlan and Hollingsworth, A. Cary Smith, designer: 2m. schooner yacht *Tampa* (1887) #233
31 plans (drawer O-5)

Office of the Light House Board: plates of U.S. Light Vessels and Light-House Tenders (1891-1906); 54 plans (drawer O-5)

4 blueprints of sail/rigging plans for “white fleet” vessels *San Francisco* (1888), *Olympia* (1892), *Oregon* (1893), *Monterey* (1891)
**Research and Reference: Plans - Risdon Iron Works**
(all filed in drawer O-5 except * filed with oversize rolled plans)

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<td>B180</td>
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<td><em>Lake Tahoe</em>, 1896</td>
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<td>Gas screw ferry <em>Ramon</em>, 1914</td>
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<td>Schooner <em>Tampa</em>, 1887</td>
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<td>Fletcher engine plans: correspondence</td>
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<td>B188</td>
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<td>Surface Vessel Recognition Manual, 1943</td>
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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
BETHELHEM 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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| I   | I, IV, VI, VII, VIII, IX | Related material: scrapbook 12  
Lines drawings for designs I, IV, VI; lines drawings and notes for design VII; lines drawings and sail plan for design VIII; lines for design IX; profiles; notes and sail plans; pamphlet on small cruising yachts; Cap Cat Boat Association Class D rules and regulations for 1911. Design dates 1941-1945. |
| X   |        | Tunnel Stern Scow (1946) |
| XI  |        | Bay & River Freighter (1946) |
| XII |        | Plywood Kayak (1946) |
| 13  |        | 24’ Yacht Ketch (1947)  
Notes; graphs; lines and sail plan sketches. |
| 14  |        | Twin Screw Steel Power Boat (1948)  
Correspondence; “Specifications for a Twin Screw Steel Cruiser” (1949); notes and graphs; weights-steel summary; weights-outfit summary. |
| 14B |        | U.S. Light Vessel No, 50, Columbia River of 1891 (1948)  
Related material: scrapbook 12  
Two articles (1949 WAB, 1976) |
| 14C-1 |        | Sloop Gjoa of 1872 (1948)  
Related material: drawer O-2, second donation files, scrapbooks 3, 12, 16, 19  
Correspondence; newspaper clippings (1972-1973); press release for project (1947); ship’s history by WAB; photographs and specifications of the model by W.H. Honey; notes; articles on Amundsen and Gjoa voyage. |
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<td>Correspondence; specifications for the restoration and preservation of hull and rigging (1948, 1972); notes.</td>
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<td>Photographs: model and reconstruction (1940’s).</td>
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<td>14C-4</td>
<td>Historical photographs (1900-1920); photograph of <em>Gjøa</em> painting with news clipping on crew (frame made from part of cabin table of original <em>Gjøa</em>).</td>
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<td>14D</td>
<td>Stern Wheel Steamer <em>Petroleum No. 3</em> of 1913 (1949); Photographs of construction and launch (1913); memo (1913) and manuscript of article (1924); “Specifications of Stern Wheel Tank Steamer for Marine Department, Standard Oil Company, Hull 109, <em>Petroleum No. 3</em>”.</td>
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<td>14E-1</td>
<td>Merchant Ship <em>Mayflower II</em> of 1620 (1952-1957); Related material: files R139-R140, design notebook A, drawer O-2, oversize box I, second donation files, scrapbooks 5, 12, 14-20; Articles by WAB; specifications for <em>Mayflower</em> replica (1955); plan list; copies of plans and sketches (anchor and details); notes; graphs and lines drawings; correspondence regarding design ownership (1987).</td>
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<td>14E-2</td>
<td>Photographs: model and ship (construction through completion, and under sail).</td>
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<td>15</td>
<td>17’ Catboat (1955); Related material: scrapbook 12; Lines drawings, profile sketch, notes.</td>
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<td>16</td>
<td>Shallop for <em>Mayflower II</em> of 1620 (1955); Related material: design notebook A, second donation files, scrapbook 12; Copies of plans; photographs of the vessel.</td>
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<td>17</td>
<td>Longboat for <em>Mayflower II</em> (1955); Related material: design notebook A, second donation files, scrapbook 12.</td>
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<td>18</td>
<td>Pinnace <em>Virginia</em> of 1607 (1957); Related material: drawer O-2, second donation files, scrapbook 12; Original stamp in Design List entry, small notebook 9; Photographs of model; news clippings; notes; lines drawings and sail plan; press release; articles.</td>
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| 20  | 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  
“Appendix A--Rigging Specifications”; plan for anchor; study of characteristics of Ralamb’s *Gay*; article on art and yacht design. | |
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| 28  |        | Chebacco Boat ca. 1770 (1961)  
      |        | “Notes from the History of the Town of Rockport, 1888”; copies of plans from Sloops and Shallops; notes. |
| 29  |        | 24’ Shallop Answer (revised) of 1600’s (1961)  
      |        | Related material: design 24, design notebook A, scrapbook 12  
      |        | Copies of plans; specifications; notes; lines and profile drawings. |
| 30  |        | Copenhagen Ship (1961)  
      |        | Related material: file R139  
      |        | Correspondence; photocopy of ship plan; articles and notes; lines drawings, graphs, sketches and notes. |
| 31-1|        | Merchant Vessel Welcome of 1682 (1962)  
      |        | Related material: design notebook A, drawer O-2, second donation files, scrapbook 12  
      |        | Research: brochures; articles; correspondence; notes and sketches. |
| 31-2|        | Design: “Final Report on Project” (1971); preliminary specifications (1963); notes, sketches and graphs; copies of plans. |
| 31-3|        | Correspondence (1962-1986). |
| 32  |        | Newburyport Hawksnest Model of 1690 (1963)  
      |        | Related material: file R140, drawer O-2, scrapbook 12  
      |        | Photographs of model; correspondence; notes by Howard I. Chapelle; tracings from model; notes and sketches. |
| 33  |        | Friendship Sloop  
      |        | Notes. |
| 34  |        | Two-Masted Boat East Hue & Cry of the late 1800’s  
      |        | Related material: design notebook A, slide tray 3, second donation files, scrapbook 12  
      |        | Notes and graphs; cardboard cut-out. |
| 35  |        | Packet Sloop Mayflower of 1823 (1964)  
      |        | Related material: slide tray 3, second donation files, scrapbook 12  
      |        | 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. |
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36-37 | Saint John Wood Boats (1965)
38 | Sloop ca. 1838 (1965)
39 | Delaware River Shallop of 1818 (1965)
40 | Topsail Schooner Gaspee II 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).
III 40A | Pinnace Deliverance 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); “Deliverance: Work in Progress and a Projection of Work for 1980”.
41 | American Revolutionary War Schooner Hannah of ca. 1776 (1968)
 | Related material: drawer O-2
 | Photographs of half model; correspondence; notes, sketches, lines; news clippings; reproduction of Colony Ledger of 1775 from the Marblehead Historical Society; articles; proposal for Margareta, a vessel similar to Hannah (1974).
42 | Ship Carolina 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 Carolina; copies of the 1926 model plans; prospectus for a model of the ship Carolina of 1670; copies from the South Carolina Historical Society of The Shaftsbury Papers; the Carolina fleet; copies of early maps of Charleston Harbor; “lists of ships found in connection with Carolina, 1670-1700”; brochure on Carolina and Adventure.
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<td>Photographs: at sail and showing damage to vessel; copies of plans and cards; brochure on <em>Adventure</em> and <em>Carolina</em>; brochure and advertisement for Charles Town Landing; articles.</td>
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<td>43-3</td>
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<td>Photographs: including photograph of the <em>Adventure</em> stopped near a surfaced submarine.</td>
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<td>Schooner <em>Pilot</em> (1971)&lt;br&gt;Related material: slide tray 3, drawer O-2, scrapbooks 10, 13&lt;br&gt;Photograph showing new rig; correspondence; notes; Herreshoff and Kerwin report.</td>
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<td>Gondola (1972)&lt;br&gt;Related material: second donation files&lt;br&gt;“A Study of Gondola’s for the Society for the Preservation of Historic Landmarks in York County [Maine], Inc.” (1972); notes on scow sloops.</td>
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<td>Dutch Model Whaleship of the 1600’s (1972)&lt;br&gt;Correspondence; notes on rigging and masts.</td>
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<td>47</td>
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<td>Shallop in Halves of 1602 (Gosnold’s Shallop, for Concord)&lt;br&gt;Related material: design 48, design notebook A&lt;br&gt;Correspondence; sketches; notes; reproduction of drawing of “Concord’s shallop. After Wall.”</td>
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<td>Bark <em>Concord</em> of 1602&lt;br&gt;Related material: design 47, design notebook A, slide tray 3, second donation files, scrapbook 13&lt;br&gt;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.</td>
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<td>Brig <em>Beaver II</em> of 1773 (1972)&lt;br&gt;Related material: design notebook A, slide tray 3, second donation files, scrapbooks 10, 13&lt;br&gt;Photographs showing rig; vessel history; correspondence; interior drawing, figurehead and details; notes; words to “Revolutionary Tea” song.</td>
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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  
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)  
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  
<pre><code> |        | 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). |
</code></pre>
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<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>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>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>75</td>
<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

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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  
      Client: Plimoth Plantation, Inc., Plymouth, Massachusetts and Project Mayflower, Ltd.,  
              London, England  
      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)  
         H-1  Lines  
         S-1  Midship section  
         S-2  Structural profile  
         S-3  Lower deck structure  
         S-4  Upper deck structure  
         SKR-1  Outline of spars and rigging  
      Final plans and specifications  
         H-1  Lines  
         H-2  Offsets for loft  
         S-1  Midship section  
         S-2  Structural profile  
         S-3  Lower deck structure  
         S-4  Upper deck structure  
         S-5  Focsl, half and poop decks  
         S-6  Typical sections  
         S-7  Transom  
         S-8  Beakhead  
         S-9-A  Bulkheads (sheet 1)  
         S-9-B  Bulkheads (sheet 2)  
         S-10  Outboard profile  
         S-SKI  Arrangement of framing  
         A-2  Interior finish  
         R-1-A  Rigging profile (pertaining to spars)  
         R-1-B  Rigging profile (pertaining to sails)  
         R-2  Masts and flagstaffs  
         R-3  Yards  
         R-4  Tops and crosstrees  
         R-5-A  Rigging fittings (sheet 1)  
         R-5-B  Rigging fittings (sheet 2)  
         R-6  Rigging sections  
         F-1-A  Miscellaneous fittings (sheet 1)  
         F-1-B  Miscellaneous fittings (sheet 2)
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, Woodbridge, 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
  Design plans (1963)
    31-1-D Lines
    31-2-D Midship section
    31-3-D Inboard profile
    31-4-D Decks
    31-5-D Rigging and sails
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<td>Newburyport Model of 1690 (1963)</td>
<td>32-1 Refaired lines</td>
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<td>33</td>
<td>Friendship Sloop (1964)</td>
<td>Client: W. Partridge</td>
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<td>Two-Masted Boat (1964) - plans in drawer SO-3</td>
<td>Client: Winslow Myers</td>
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<td>Original plans owned by Maine Maritime Museum</td>
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<td>34-1 Lines</td>
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<td>34-2 Construction plan</td>
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<td>34-3 Sail plan</td>
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<td>35</td>
<td>Mayflower of 1823 (1964) - plans in drawer SO-3</td>
<td>North River (Massachusetts) Packet Sloop based on builder's model in Hart Nautical Museum</td>
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<td>Lines from model</td>
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<td>Arrangement</td>
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<td>Sail plan</td>
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<td>36</td>
<td>Saint John Wood Boat (1965) - plans in drawer SO-3</td>
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<td>36-1 Lines from model</td>
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<td>37</td>
<td>Saint John Wood Boat (1965) - plans in drawer SO-3</td>
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<td>37-1 Lines from model</td>
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<td>38</td>
<td>Sloop of ca. 1838 (1965) L. M'Kay, Plate 5 - plans in drawer SO-3</td>
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<td>38-1 Lines</td>
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<td>39</td>
<td>Delaware River Shallop of 1818 (1965) - plans in drawer SO-3</td>
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<td>39-1 Lines</td>
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<td>40</td>
<td>Reproduction of Gaspée (1967) - plans in drawer SO-3</td>
<td>Model for MIT built by Erik Ronnberg, Jr.</td>
</tr>
<tr>
<td></td>
<td>40-1-D Lines</td>
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<td></td>
<td>40-2-D Construction plan</td>
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<td>40-3-D Midship section</td>
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<td>40-4-D Sail plan</td>
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<td>Specifications</td>
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<td>40A</td>
<td>Deliverance of 1610 (1967) - plans in drawer SO-3</td>
<td>Client: Bermuda Junior League</td>
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<td>Dry-land waterline reproduction, hull plans by Cyril Smith, Bermuda</td>
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<td>Rigging plan</td>
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<td>41</td>
<td>Reproduction of Hannah (1968) - plans in drawer SO-3</td>
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<td>41-1 Lines</td>
<td></td>
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</tbody>
</table>
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.)
- **S-6** Structural sections (P&McA.)
- **S-7** Bulkheads (P&McA.)
- **S-8** Beakhead (P&McA.)
- **S-9** Transom and galleries (P&McA.)
- **SK** Transom decorations (WAB)
- **R-1** Rigging profile (WAB)
- **R-1** Masts (P&McA.)
- **R-2** Tops and cross trees (P&McA.)
- **R-3** Yards, parrels and flagstaffs (P&McA.)
- **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
- **43-R-3** Sails
- **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.
46 Dutch Model (1972) - plans in drawer SO-3
Client: Kendall Whaling Museum
  46-1 Rigging profile
  46-2 Deck fittings

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
  Lines
  Profile and sections (yards)
  Decks
  Sail plan (masts)
  Rigging specifications

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
  49-SK2 Beam end bracket
  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
  Lines (preliminary)
  Decks (preliminary)
  Lines (final)
  Decks (final)
  Rigging
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
51-5  Accommodations
Specifications

52  Whale Boat of 1776 (1974) - plans in drawer SO-3
*Middlesex* - Darien Historical Society (Connecticut)
*Henry Scudder* - American Revolution Bicentennial Commission (Huntington, Long Island)
52-1  Lines
52-2  Construction plan
52-3  Sail plan and miscellaneous details

53  Long Boat of 1775 (1975) for *Brilliant* - plans in drawer SO-3
Client: Smithsonian Institution
Lines
Construction plan
Sail plan and miscellaneous details

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
56-H-2  Construction plan (incomplete)
56-SK-1  Profile (1977); preliminary profile A-B-C-D-E (1976)

57  *Dove* (1976) - plans in drawer SO-3
Client: St. Mary’s City Commission, St. Mary’s City, Maryland
57-H-1  Lines and offsets
57-H-2  Construction plan
57-H-3  Docking plan (1979)
57-F-1  Miscellaneous fittings
57-F-2  Furniture
57-R-1  Sail plan (negative in roll file B5)
57-R-2  Masts and spars
57-R-3  Sails
57-R-5  Sail plan (alternate with fore topsail)
57-R-4  Belaying plan
Specifications, Miscellaneous sketches
William Baylies (1976)
Client: Old Dartmouth Historical Society
Lines from model

North Star (1976)
Client: Old Dartmouth Historical Society
Lines from model

Parrot boat (jolly wat) for the Dove (1976) - plans in drawer SO-3
Client: St. Mary’s City Commission
- Lines
- Construction plan
- Sail plan and miscellaneous details

Rose Dorothea of 1905 (1977) - plans in drawer SO-3
Client: Provincetown Association, Inc.
- Lines and offsets (above water only)

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

Ship Draught on Plank - plans in drawer SO-3
- H-1 Roll file A1, negative in roll file B3

Sparrow-Hawk (1978)
Client: Pilgrim Society, Plymouth, Massachusetts
- Sail plan

Massachusetts, U.S. Rev. Mar - plans in drawer SO-3

Keelboat (1978) - plans in drawer SO-3
Client: Company of Keelboatmen
- 66-SK-1 Study - lines and construction plan
- 66-SK-2 Study - outboard profile
- 66-SK-3 Study - lines and construction plan
- 66-SK-4 Study - outboard profile
- 66-H-1 Lines and offsets
- 66-H-2 Construction plan
- Side view/lines Roll file A3

Weymouth Back River Gundalow (1978)
Report only

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
   SK69-2  Proposed sail plan
   69-R-1  Sail plan
   69-R-2  Masts and spars
   69-R-3  Mast heads
   69-R-4  Fife rails, boom and now sprit fittings (roll file A5)
   69-R-5  Gaff fittings
   69-R-6  Sails
Bow detail (1980)

70  *Niantic* - plans in drawer SO-3
Client: National Trust for Historic Preservation

71  24 foot Pinnace ca. 1700-1750 (1979) - plans in drawer SO-3
Client: Universal Studios
   71-1  Sail plan

72  *Niagara* (1979) - duplicate plans in drawer SO-3
Client: Commonwealth of Pennsylvania Historical and Museum Commission
Original plans owned by the Commonwealth of Pennsylvania
   72-1  Main deck
   72-2  Masts, bowsprit and jibboom
   72-3  Tops, crosstrees and caps - yards, boom and gaff
   72-4  Standing rigging
   72-5  Running rigging
   72-6  Rigging profile (negative in roll file B4)
   Belaying sketch
   Block details

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
   73-H-2  Botton framing
   73-R-1  Rigging exhibit - mast and yard
   73-R-2  Rigging exhibit - rigging

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
   74-SK-3  Outline profile and sections
   74-SK-4  Lines
   74-SK-5  Lines
   74-SK-6  Lines
   74-SK-7  Sail plan
Guide to The William A. Baker Collection

74  74-H-1 Lines
    74-H-2 Offsets
    74-S-1 Sections
    74-S-2 Structural profile
    74-S-3 Main deck
    74-S-4 Upper deck
    74-S-5 Focslе, half and poop decks

75  *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
    75-3-D Sail plan
    75-SK-1 Profile - single deck
    Specifications
**Vessel Designs: Plans not on List**

*Belfry for Hart bell (1964)*
- 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)*
Lines traced from model by W. P. Gannett, Scituate
Boat built by Chester F. Spear, Scituate, 1939
- 2 drawings - drawer O-5

Maps drawn for *Bath History*
- 2 duplicates - drawer O-5

Duplicates of design 42A
Plates drawn for *Bath History*
- 10 plans - drawer O-5

MIT student plans and sketches, 1932-1934 - drawer Z-3
Related material: senior thesis
- 3 pages encapsulated hand-written notes (no date)
- 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)
- Shelter deck plating (1933)
- Scotch boiler (1933)
- I.P. piston engine M-8 (1933)
- Connecting rod-upper end (1933)
- Cargo gear (no date)
- Senior year project: 21 knot coastwise steamship (1934)
- Piping diagram (1934)
- 3 blade propeller (1934)
• Suction and discharge piping (1934)
• Steam and exhaust piping (1934)
• 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)
• Privateer *Swift of Salem* of 1783 (no date)
• U.S. brig *Boxer* of 1831 (1939), negative

BSC plans drawn by WAB: see BSC plan list for specifics - drawer Z-3
Vessel Designs: Plans - Research and Reference Related

14C  
*Gjøa*
  6 plans from Works Progress Administration, Smithsonian Institution, United States National Museum, Historic American Merchant Marine Survey no. 16-9; 9 plans by Honey for *Gjøa* model

14E  
*Mayflower II*
  1 color print of *Mayflower*, painted for Plimouth Plantation by Marshall W. Joyce, ca. 1967; photographs of model, construction, and vessel; 3 plans of *Mayflower* model designed by R. C. Anderson, drawn by C. A. Pritchard

18  
*Virginia*
  2 plans of the model by Carl M. Langbehn (1957); 2 copies of lines of 30-ton pinnace developed from sketch by WAB (1957) by C. M. Langbehn

31  
*Welcome*
  2 plans from Camper & Nicholson’s, Ltd., Southampton (1964)

32  
Newburyport Model
  3 sheets of lines by Andrew Davidhazy (1961); 3 pencil sketches (Davidhazy?)

40A  
*Deliverance*
  6 plans of the reconstruction design by Cyril K. Smith (1966)

41  
*Hannah*
  Poster (1968): continental armed schooner, 1775 with sail plan, lines and history

42  
*Carolina*
  Reproduction of original 18th century (?) plan

44  
*Pilot*
  Reproductions of 2 original Burgess, Swasey and Paine plans, design no. 258 (1924)

50  
*Essex*
  Reproduction of original Humphrey plans (12th century): profile and midship section

51  
*Brilliant*
  3 plans for Edson rig (1974); 3 pages of a draft of his majesty’s sloop *Druid*, ex *Brilliant* (1776)

68  
*Pleiades*
  Bowdoinham hawks-nest model by Reed Walker, Richmond, Maine

69  
*Ernestina, ex Effie M. Morrissey*
  Reproductions of 3 plans redrawn by Greg Platzer
Guide to The William A. Baker Collection

70  
Niantic
Plans as she was found May, 1978, at Sansome and Clay Streets, San Francisco, cross-sections of the Niantic, looking forward

72  
Niagara
7 contract drawings by Meyers, Krider, Werle & Ellenberger, Erie, Pennsylvania (1963); 4 Chapelle plans (1939)

73  
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)

75  
Elizabeth II
Reproductions of 19 Stanley Potter plans (ca. 1982)
Guide to The William A. Baker Collection

-series description-

- series iv -

notebooks: binders
An index exists in the front of each binder, providing a complete guide to its contents.

Book A  Design data for reconstructions by WAB
  Proportions of small vessels
  Merchant vessels (1627)
  17th Century rigging proportions and frame siding
  Designs: 14E, 16, 17, 27, 29, 31, 34, 42, 43, 47, 48, 49, 50, 51, 53, 57, 60, 73, 75

Book B  Excerpts from publications
  Marine: shallops to shipbuilding

Book C  Shipbuilding contracts
  Design data
  Construction details
  Tonnage

Books D  Type descriptions
  Dictionary definitions
  Marine information

Book M  Old type descriptions and details
  Design discussions
  Plans of older vessels
  Plans of modern vessels
  Notes

Book R  Inventories
  Masting and rigging
  Fittings
  Painting and decoration
  Accommodations
  Food and supplies
**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 pitching; 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; *Wasa*; 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)
Guide to The William A. Baker Collection

❖ SERIES DESCRIPTION ❖

- SERIES V -
S L I D E S

An index exists in the front of each box, providing a general guide to its contents.

Box 1 Historic vessels - steamships - downeasters - tools
Box 2 Early vessels - Japanese scrolls - navigational aids - steamships
Box 3 Baker Designs, excluding Mayflower II and its shallop
Box 4 Lectures and historical shows
Box 5 Lectures
Box 6 Research: vessels
Box 7 Travel: Puerto Rico - Bahamas, Bermuda, shallops
Box 8 Travel: England - Mayflower II - Greece - Yugoslavia
Box 9 Notes on historic vessels slides
**Series Description**

**- Series VI -
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
### SERIES DESCRIPTION

#### SERIES VII - SCRAPBOOKS

**SCRAPBOOKS**

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<tr>
<td>1</td>
<td>News clippings (1939-1981), including publicity on Bath history, Baker designs, and the Hart Nautical Museum</td>
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<tr>
<td>2</td>
<td>Travel: news clippings, photographs (1972-1973)</td>
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<tr>
<td>3</td>
<td>Travel: news clippings, photographs, including Gjøa photographs (1974-1975)</td>
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<tr>
<td>4</td>
<td>Travel: news clippings, photographs (1976)</td>
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<tr>
<td>5</td>
<td>Travel: Europe (volume I, 1952-1958), including Mayflower II</td>
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<td>Travel: Europe (volume II, 1952)</td>
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<td>7</td>
<td>Travel: Europe (1958, 1972)</td>
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<td>8</td>
<td>Designs: Carolina (42) and Adventure (43) in South Carolina (1970)</td>
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<tr>
<td>9</td>
<td>Designs: Aviza shallop (25) and Middlesex/Henry Scudder (52)</td>
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<td>10</td>
<td>Designs: Pilot (44), Beaver (49), and Elizabeth II (75)</td>
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<tr>
<td>11</td>
<td>Designs: Dove (57) and Parrot (60)</td>
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<td>13</td>
<td>Baker design book A3, including plans, photographs and clippings for designs 40, 40A, 42, 43, 44, 48, 49, 50, 51, 52, 53, 56, 57, 60, 62, 63, 64, 69, 70, 71, 72, 73, 74, 75</td>
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<tr>
<td>14</td>
<td>Designs: scrapbook of WAB's work on the Mayflower II presented to RSB by Plimoth Plantation (June 5, 1982)</td>
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<tr>
<td>15</td>
<td>Designs: Mayflower II special events (1957-1990)</td>
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<tr>
<td>16</td>
<td>Designs: Mayflower II, Carolina, Adventure, Gjøa</td>
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<tr>
<td>18</td>
<td>Designs: Mayflower II in England (1957-1959)</td>
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<td>19</td>
<td>Designs: Mayflower II, Gjøa (1949-1957)</td>
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<tr>
<td>20</td>
<td>Designs: Mayflower II, Dove (1957)</td>
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</table>
- Series VIII -

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)
Appendix A

- Library Collection -

Library Collection: Books


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].


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.
Montgomerie, James. Lloyd’s Register of Shipping Report: "Experiments on the Compression of Samples of Deck Plating and the Application of the Results in Relation to the Thickness of Such Plating in Certain Conditions of Loading." Kobe: Japan Society of Naval Architects, April 8, 1934.
## Appendix B

- **Plan Inventories -**

<table>
<thead>
<tr>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
</table>
| **A1**    | WAB design 63: Scribed board (6’ x 2’) from the James Maxwell House, Warren, Rhode Island  
Client: Massasoit Historical Association  
63-H-1 Lines of an 18th century vessel (1977) - negatives in roll file B3 |
| **A2**    | Single screw tanker *Socony Vacuum* (H-4333, 4332)  
BSC plan drawn by WAB  
Blueprint of scantling plan (1938) |
| **A3**    | WAB design 68: *Pleiades* Hawksnest half model study  
Side view/lines |
| **A4**    | WAB design X: tunnel stern scow  
X-1 Plan (1946) |
| **A5**    | WAB design 69: schooner *Ernestina*, ex *Effie M. Morrissey*  
69-R-4 Fife rails, boom and bowsprit fittings (1978) |
| **A6**    | Russian auxiliary cruiser *Lena* (1896)  
Built by R. & W. Hawthorn Leslie & Company, Ltd.  
378-6936 Poop, bridge and forcastle plan  
378-6937 Upper deck plan  
378-6939 Sheer draught lines |
| **B1**    | Barque *Annie Johnston* (Union Iron Works, 1910)  
113-10708 Profile and deck plan  
113-10709 Lines, displacement and other curves (taken from ship) |
| **B2**    | WAB design 63: Scribed board (6’ x 2’) from the James Maxwell House, Warren, Rhode Island  
Client: Massasoit Historical Association  
63-H-1/63-H-2 Lines (negatives) |
| **B3**    | WAB design 49: *Beaver II*  
49-1 Rig (negative) |
| **B4**    | WAB design 72: *Niagara*  
Rigging profile negative |
<table>
<thead>
<tr>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
</table>
| B5       | WAB design 57: *Dove*  
Sail plan negative |
| B6       | Belfry for *Hart* bell (1964) |
| C1       | 7m. schooner to carry oil in bulk for Union Oil Company  
*405-12094* Sheer-1/2 breadth and body plan |
| C2       | San Francisco pilot boat *Gracie S.*  
Lines and profiles (3 plans) |
| C3       | *U.S.S. Olympia* and *U.S.S. Oregon*  
*1339-39785* 30‘ gig whaleboat  
*1339-35790* 29‘ whale boats  
*1337-39769* 32‘ sailing launch |
| C4       | *Cruiser No. 5* (Union Iron Works, 1889)  
*1470-42190* Berth deck planking |
| C5       | 3730-ton twin screw steel cruiser *U.S.S. Charleston* (Union Iron Works, 1887)  
*1398-41056* Shell expansion |
| C6       | Freight (cattle) ferry boat: Oakland to Baden for the Southern Pacific Company  
(Union Iron Works, 1888)  
*402-12198* Lines/profile |
| D1       | *Piedmont* passenger ferry no. 5 (Union Iron Works, no date)  
Deck and sheer plan |
| D2       | 3730-ton twin screw steel cruiser *U.S.S. Charleston* (Union Iron Works, 1887)  
*1398-41059* Upper and main deck plating plan |
Plan Inventories: Rolled Plans (Shelf Storage)

7m. schooner (Union Iron Works, no date)
   405-12103 Pumping arrangement

Express steamer for Pacific Coast Steamship Company (Union Iron Works, 1902)
   396-10957 Decks

Proposed steamer for P.M.S.S. Company (Union Iron Works, 1904)
   396-10965 Profile and decks

Proposed steamer (Union Iron Works, 1904)
   396-10966 Midsections

S.S. Santa Rosa (Union Iron Works, no date)
   392-3754 General arrangements

Stern wheel steamer Potrero (Risdon Iron Works, 1899)
   19337 Arrangement of machinery

S.S. Spokane (Union Iron Works, 1902)
   1438-42372 General arrangements

Otto Gildermeister (Union Iron Works, 1901)
   242 3887 Lower topsail yard crane and sling
   242 3888 Royal sling and mast band
   242 3896 Mizzen mast cap
   242 3897 Details of rigging
   242 3900 Upper topgallant sling and mast band
   242 3902 Fore and main topmast cup
   242 3903 Upper topsail crane-sling and mast band
**Appendix C**

- Inventory of Second Donation -

**Vessel Designs: Files**

Files may include correspondence, news clippings, photographs, and other publicity-related materials.

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<thead>
<tr>
<th>Design Number</th>
<th>Description</th>
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<td>Correspondence: St. Olav's Medal (1949)</td>
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<tr>
<td>14E</td>
<td>Correspondence: R.C. Anderson (1947-1958)</td>
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<tr>
<td></td>
<td>Correspondence: Sir Alan Moore (1957-1959)</td>
</tr>
<tr>
<td></td>
<td>Correspondence: W. Salisbury (1961-1966)</td>
</tr>
<tr>
<td></td>
<td>Specifications, lines and plans (1952-1956)</td>
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<tr>
<td></td>
<td>Plimoth Plantation trustees reports (1957, 1990-1991)</td>
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<td></td>
<td>Plimoth Plantation (1952-1963)</td>
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<td></td>
<td>Maintenance and exhibits (1961-1991)</td>
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<tr>
<td></td>
<td>Upham (builder) and launching (1956-1958)</td>
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<tr>
<td></td>
<td>Project contract, BSC publicity (1950-1957)</td>
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<td></td>
<td>BSC publicity (1955-1957)</td>
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<tr>
<td></td>
<td><em>Mayflower II</em> publicity</td>
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<tr>
<td></td>
<td>Publicity</td>
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<tr>
<td></td>
<td>Models</td>
</tr>
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<td></td>
<td>Photographs</td>
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<td>Copies of plans (2 folders)</td>
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<td>16, 17</td>
<td>Building of shallop</td>
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<td>18</td>
<td>Publicity-related materials</td>
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<tr>
<td>21</td>
<td>Publicity-related materials</td>
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<tr>
<td>27</td>
<td>Drawings and correspondence regarding models (1963-1978)</td>
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<td></td>
<td>Plan packet</td>
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<td>31</td>
<td>Publicity-related materials</td>
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<td>40A</td>
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<td>Gundalows</td>
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<td>Publicity-related materials (1972-1982)</td>
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<td>Design Number</td>
<td>Description</td>
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<tr>
<td>---------------</td>
<td>-------------</td>
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<tr>
<td>57</td>
<td><em>Dove</em>, St. Mary's City Commission</td>
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<tr>
<td>60</td>
<td>Jolly wat; Kalmar Nyckel Foundation, 1986</td>
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<tr>
<td>66</td>
<td>Keelboat</td>
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<tr>
<td>67</td>
<td>Publicity-related materials</td>
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<tr>
<td>70</td>
<td>Publicity-related materials</td>
</tr>
<tr>
<td>72</td>
<td>Publicity-related materials</td>
</tr>
<tr>
<td>75</td>
<td>Building, publicity, under sail (1978-1986)</td>
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</table>

Plan Index

Manuscripts -- design proposals
PERSONAL CORRESPONDENCE
BSC and SNAME (1941-1959)
Historical Ships and Preservation, National Trust for Historic Preservation (1976)
NASOH bibliography sheet (1981)
National Trust for Historic Preservation press releases (1976)
Correspondence and drafts: Ronnberg Tribute (1982-1983)
Correspondence: Sam Svensson (1954-1966)
Satan's Peril (1981)
WAB biographical (1930-1985)
Correspondence: military (1929-1942)
Personal material: WAB and RSB (1925-1982)
Photographs of WAB (1948-1980)

PUBLICATIONS AND LECTURES
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
# Guide to The William A. Baker Collection

## Scrapbooks

<table>
<thead>
<tr>
<th><strong>Book</strong></th>
<th><strong>Description</strong></th>
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<tbody>
<tr>
<td>1</td>
<td>News clippings (1939-1981), including publicity on Bath history, Baker designs, and the Hart Nautical Museum</td>
</tr>
<tr>
<td>2</td>
<td>Travel: news clippings, photographs (1972-1973)</td>
</tr>
<tr>
<td>3</td>
<td>Travel: news clippings, photographs, including <em>Gjøa</em> photographs (1974–1975)</td>
</tr>
<tr>
<td>4</td>
<td>Travel: news clippings, photographs (1976)</td>
</tr>
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<td>5</td>
<td>Travel: Europe (volume I, 1952-1958), including <em>Mayflower II</em></td>
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<td>Travel: Europe (volume II, 1952)</td>
</tr>
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<td>7</td>
<td>Travel: Europe (1958, 1972)</td>
</tr>
<tr>
<td>8</td>
<td>Designs: <em>Carolina</em> (42) and <em>Adventure</em> (43) in South Carolina (1970)</td>
</tr>
<tr>
<td>9</td>
<td>Designs: <em>Aviza</em> shallop (25) and <em>Middlesex/Henry Scudder</em> (52)</td>
</tr>
<tr>
<td>10</td>
<td>Designs: <em>Pilot</em> (44), <em>Beaver</em> (49), and <em>Elizabeth II</em> (75)</td>
</tr>
<tr>
<td>11</td>
<td>Designs: <em>Dove</em> (57) and <em>Parrot</em> (60)</td>
</tr>
<tr>
<td>13</td>
<td>Baker design book A3, including plans, photographs and clippings for designs 40, 40A, 42, 43, 44, 48, 49, 50, 51, 52, 53, 56, 57, 60, 62, 63, 64, 69, 70, 71, 72, 73, 74, 75</td>
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<tr>
<td>14</td>
<td>Designs: scrapbook of WAB’s work on the <em>Mayflower II</em> presented to RSB by Plimoth Plantation (June 5, 1982)</td>
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<td>15</td>
<td>Designs: <em>Mayflower II</em> special events (1957–1990)</td>
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<tr>
<td>16</td>
<td>Designs: <em>Mayflower II</em>, <em>Carolina</em>, <em>Adventure</em>, <em>Gjøa</em></td>
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<tr>
<td>20</td>
<td>Designs: <em>Mayflower II</em>, <em>Dove</em> (1957)</td>
</tr>
</tbody>
</table>
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
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• 2 pamphlets from WAB's high school graduation exercises (1927, 1930)
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• Sketch of Camp Keemosahbee (no date)
• MIT medallion
• 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)
- WAB's MIT diploma (1934)
- Photograph of SNAME Annual Banquet in Boston (1954)
- SNAME Certificates (1933, 1946)
- Note from Paule Loring (1967), with issue of *The Rhode Islander* (August 6, 1967)
- Drawing of Charles W. Morgan, signed by CAMM members (1981)
- Personal scrapbook (1925-1935)

PHOTOGRAPHS AND CERTIFICATES
- *Aviza* shallop (no date)
- Sloop *Flying Cloud* (1951)
- Ruth Stuart, Salem Willows Harbor (1935)
- *Mayflower II* at sail (no date)
- *Mynikin* (1954)
- *Adventure* in Charleston, South Carolina (1970)
- WAB and Alan Villiers on *Mayflower II* (April 1957)
- WAB and RSB at Plimoth Plantation (no date)
- *Mayflower II* and shallop at night (June 1957)
- Clipping from *The Patriot Ledger* (November 6, 1969)
- Certificate to WAB for designing *Middlesex* (1975)
- SNAME Honorary Membership certificate (1980)

SLIDES

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<tr>
<td>7</td>
<td>Travel: Puerto Rico - Bahamas - Bermuda - shallops</td>
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<tr>
<td>8</td>
<td>Travel: England and <em>Mayflower II</em> - Greece - Yugoslavia</td>
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</tbody>
</table>
Guide to The William A. Baker Collection

Library Collection: Books


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

Guide to The William A. Baker Collection


*Report of the South Carolina Tricentennial Commission.*


Van Boylen, J. De hoogaars geschiedenis en bouw.. Met bouwbeschrijving van een model van de Tholense hoogaars TH 64. De Boer Maritirm, 1978.


79


*Yachts by Herreshoff.* Bristol, Rhode Islane: Herreshoff Manufacturing Corporation, no date.
# Appendix D

## Baker Design Index

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<th>Design Number</th>
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<tr>
<td>Batchelor (North Sea boat, 1635)</td>
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<td>42A</td>
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<tr>
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<td>Block Island type, keel double ender</td>
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<td>Chebacco, ca. 1770</td>
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<td>For Dove (57)</td>
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</tr>
<tr>
<td>For Mayflower II</td>
<td>17</td>
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<td>North Sea (Batchelor, 1635)</td>
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<td>Beaver II (1773)</td>
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<td>Brick kiln Briggs model (packet sloop Mayflower, 1823)</td>
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<td>Catamaran (MIT senior thesis)</td>
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<td>Catboats</td>
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<td>17</td>
<td>15</td>
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<tr>
<td>Chebacco boat (ca. 1770)</td>
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