

Guide to The William A. Baker Collection

His Designs and Research Files
1925-1991

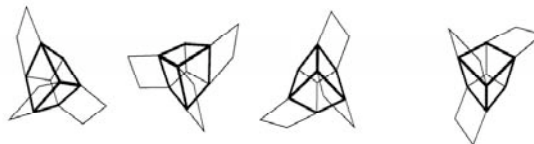
The Francis Russell Hart Nautical Collections of
MIT Museum



Kurt Hasselbalch
and
Kara Schneiderman

MIT MUSEUM

Building N52
365 Massachusetts Avenue
Cambridge, Massachusetts
02139-4307



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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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❖ BIOGRAPHICAL SKETCH ❖

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.

For further biographical information, see Erik A. R. Ronnberg, Jr.'s [William Avery Baker: A Tribute from His Friends](#) (printed by Stinehour Press and Meriden Gravure Company, 1992).

❖ **SCOPE AND CONTENT NOTE** ❖

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

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

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

The following abbreviations appear throughout this finding aid:

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

❖ SERIES LISTING ❖

I Research and Reference

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

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

II Bethlehem Shipbuilding Corporation

19 document boxes: 188 folders
one oversize box
11 plans
arranged by subject

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

III Vessel Designs

five document boxes: 78 folders (first donation)
one Paige box: 50 folders (second donation)
300 plans
one portfolio (second donation)
12 oversize photographs (second donation)
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

Box	Folder	Contents
I	R1-R14	Early to 17th Century Vessel Research
	R1	"The Poole Ship of 1325" [pamphlet]
	R2	"A Ship of the Roman Period from Blackfriars in the City of London" [booklet]
	R3	"Recent and Early Information about Ancient and Medieval Ships" by Elliot Snow
	R4	15th century ship design
	R5	<i>Nina</i> and <i>Santa Maria</i> (see also slide box 1)
	R6	"Survival of Pre-16th Century Mediterranean Lofting Techniques in Bahia, Brazil" (1985)
	R7	"Early Shipbuilding in Colonial New Spain, 1519-1565" by William Collins (1964) [manuscript thesis]
	R8	<i>La Grande Hermine</i> of 1534
	R9	<i>La Grande Hermine</i> of 1534
	R10	Matthew Baker notebook, ca. 1585 (see also Research and Reference photograph book 2)
	R11	"Instruccion Nautica of 1587" by de Palacio; translated by J. Bankston
	R12	Zuider Zee (Holland): excavations of late 16th to early 17th century vessels
	R13	16th and 17th century ship design
R14	16th and 17th century vessels: two papers by Richard Baker	
II	R15-R40	17th Century Vessel Research
	R15	"The Bends of a Ship" by Thomas Fagge
	R16	"Del Arcano Del Mare Del Duca di Nortumbria Libro Quarto" (see also microfilm box 4f)
	R17	Paper presented to King Charles II on "The Art of Shipbuilding"
	R18	English translations of two Swedish works on shipbuilding
	R19	17th century vessels
	R20	Maps of London showing 17th century vessels
	R21	Lists of ships
	R22	Elizabethan galleon (ca. 1600)
	R23	"Quiros in New Spain, 1606" [ship's inventories]
	R24	<i>The Half Moon</i> (ca. 1609)
	R25	"Harriot's Manuscript on Shipbuilding and Rigging (ca. 1610)" by Jon V. Pepper [1979: paper]
	R26	Vroon's <i>Royal Prince</i> of 1610
	R27	"Adriaen Block, 1611-1614: New York's First Shipbuilder" [pamphlet]
R28	"Livro de Tracas de Carpintaria, 1616" (see also Research and Reference photograph book 2)	

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Box	Folder	Contents
	R29	Documents (1616-1620) on the construction and delivery of the <i>Atocha</i> and three other galleons
	R30	Pinnacle Contracts (1625)
	R31	"A Treatise on Rigging" (1625)
	R32	<i>Wasa</i> of 1628 (see also slide tray 6)
	R33	Sketches of vessels from the log of drawer Thomas Browne, 1661-1662
	R34	"Atlas de Colbert" (ca. 1663)
	R35	"The Complete Modellist of Thomas Miller, 1667" by Vernon D. Tate
	R36	"Doctrine of Navall Architecture" by Anthony Deane (1670) (see also oversize box I)
	R37	Samuel Fortree of Navarachi [papers]
	R38	"W. a Winschootens Seeman..." (1681)
	R39	"W. a Winschootens Seeman..." (1681)
	R40	"Notes on a Naval Manuscript Compiled by Edward Battine, c. 1688"
III	R41-R53	18th Century Vessel Research
	R41	18th century ship design
	R42	Japanese scrolls showing Chinese vessels (see also slide tray 3)
	R43	"Early Iron Barges" by The Wilkinson Society (London) [booklet]
	R44	Lists of ships
	R45	"The Accomplish'd Ship-Wright and Mariner" John Hardingham (1709)
	R46	"Lexicon Technicum" by John Harris (1723, 1725) [extracts]
	R47	John Peck (1725-1790) [papers]
	R48	Brown's Ferry (South Carolina) vessel (ca. 1730)
	R49	<i>Le Chebec</i> (1750-1786)
	R50	The Journal of John Russell (1762-1765) [extracts]
	R51	<i>San Carlos</i> (1767)
	R52	<i>Columbia</i> (1787) and <i>Lady Washington</i>
	R53	Plates from <u>The Encyclopedia of Arts and Sciences</u> (1797)
IV	R54-R80	19th and 20th Century Vessel Research
	R54	"Donald McKay and the Ships he Built", 1925 [pamphlet]
	R55	Brig <i>Boston</i>
	R56	Lloyd's list (1820)
	R57	U.S. 10-gun brig <i>Perry</i> (1840's) [plans]
	R58	"Sail Plans Traced from the Notebooks of Sailmakers J.W. Loane & Sons of Baltimore for 1840-1870"
	R59	The <i>S.S. Great Britain</i> (1843)
	R60	"Lines of Vessels Taken from Builder's Half Models, 1850-1923"
	R61	Clipper ship <i>Flying Cloud</i> (1851) [plans]
	R62	Ship descriptions from <u>The Boston Atlas</u> (1851-1856) (see also Research and Reference photograph book 3)
	R63	Clipper ship <i>Great Republic</i> (1853)
	R64	Advertisements from a Boston magazine, including Harrison Loring and Simpson Dry Dock Company (1860) [originals]
	R65	"The Voyages of 'Norwest John' ca. 1860" [manuscript]
	R66	"The Ships that Foundered off Spithead" (1860)

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Box	Folder	Contents
	R67	Civil War gunboats <i>U.S.S. Monitor</i> and <i>U.S.S. Cairo</i>
	R68	Clipper ship <i>Cutty Sark</i> (1869) [brochure]
	R69	Notes by Albert Hanson on details of a three-masted schooner <i>Earl H. Potter</i> (1872)
	R70	Woods Holes spiritsail boat <i>T.C.</i> (1885) [plans]
	R71	"Documents Relatifs a la Marine Normandie", chapter one (1889)
	R72	Lists of ships, 19th and 20th century
	R73	Swedish vessels, 19th and 20th century
	R74	Articles on small boat design (1920's-1960's)
	R75	7-masted schooner <i>Thomas W. Larwson</i> (1902)
	R76	" <i>Helen B. Thomas</i> : knockabout fisherman" (1902) [article]
	R77	Steamship <i>Sabino</i> (1908) [brochure]
	R78	Herreshoff designs (1920, 1939)
	R79	Schooner <i>Pride of Baltimore</i> (1976) (see also slide tray 1)
	R80	Sea Education Association, Woods Hole, Massachusetts (1978)
V	R81-R102	Vessel Research: Type and Construction
	R81	"The Method of Building, Rigging, Apparelling and Finishing His Majesty's Ships of War..." by Samuel Pepys
	R82	Rigging notes and details (historical)
	R83	"Rigging--Structure--Outfit--Miscellaneous." from <u>The Seaman's Dictionary</u> by Henry Mainwaring
	R84	"A Fourth-Rate Ship" [plan]
	R85	Woodworking tools
	R86	"Block Machinery at Portsmouth" [plates]
	R87	Guns (15th-19th century)
	R88	Chesapeake Bay (Maryland) vessels
	R89	Brigantines and schooners
	R90	Sloops
	R91	"On the Stability of Sailing Vessels" by Beebe-Center, Jr. and Brooke [paper: SNAME, 1966]
	R92	"Random Notes on Sailing Vessels" by WAB (wind ships)
	R93	Vessel research by WAB for his books <u>Colonial Vessels</u> and <u>Sloops and Shallops</u>
	R94	St. John Wood boats (see also Designs 36 and 37)
	R95	Steamships
	R96	Steam vessels: booklets with drawings by Samuel Ward Stanton
	R97	Diesel engines
	R98	"Date and Notes on the Sailing Vessel Fleet of the Alaska Packers Association (San Francisco)"
	R99	Ferries (California)
	R100	Tugboats
	R101	"Development of Hull Form of Merchant Vessels" by G.S. Baker (1937)
	R102	State barges
VI	R103-R116	Historical Research: Museums and BSC Brochures
	R103	Rotterdam, Holland: paintings from Prins Hendrik Maritime Museum

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Box	Folder	Contents
	R104	Rotterdam, Holland: paintings from Prins Hendrik Maritime Museum
	R105	Amsterdam: paintings
	R106	London: National Gallery
	R107	London: National Maritime Museum
	R108	England: paintings by Velde (see also Research and Reference photograph book 1)
	R109	Philadelphia: vessels in harbor
	R110	Early vessels on maps
	R111	Ship structures (17th-20th century)
	R112	Ship structures (17th-20th century)
	R113	England
	R114	Holland
	R115	France
	R116	Italy
	R116A	U.S. Navy booklets and photographs of ships (1898-1928)
	R116B	Bethlehem Shipbuilding Corporation booklets
	R116C	Fore River Brochure (1902)
	R116D	"A History of Union Iron Works" by WAB
VII	R117-R127	Historical Research: Preservation and Conservation, Underwater Archaeology
	R117	Maritime History of the Delaware River: research for 1976 SNAME paper (see also photograph book 2)
	R118	Maritime History of the Delaware River
	R119	Maritime History of the Delaware River
	R120	"The American Clyde" by David B. Tyler (used for Maritime History of the Delaware River)
	R121	"A Bibliographic Survey of Pacific Northwest Maritime History"
	R122	Articles on underwater archaeology and shipwrecks
	R123	Wooden ship preservation
	R124	"Conservation of Metal Objects from Underwater Sites: A Study in Methods"
	R125	Historical naval architecture
	R126	Historical plans
	R127	Articles
	R127A	Articles in German
VIII	R128-R148	Gateway to the Sea Exhibit, WAB Personal, Howard I. Chapelle
	R128	Gateway to the Sea exhibit, 1980: research, correspondence and xeroxes of the exhibit materials
	R129	Gateway to the Sea: history of Boston Harbor
	R130	Gateway to the Sea: exhibit photographs
	R131	Gateway to the Sea: index
	R132	Gateway to the Sea: text
	R133	Gateway to the Sea: introduction
	R134	Gateway to the Sea: 1700
	R135	Gateway to the Sea: 1800

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Box	Folder	Contents
	R136	Gateway to the Sea: boats/fish
	R137	Gateway to the Sea: 1900
	R138	Gateway to the Sea: present
	R139	Howard I. Chapelle: correspondence (1955-1962) (see also designs 14E, 25, 30)
	R140	Howard I. Chapelle: correspondence (1962-1975) (see also designs 14E, 32, 40, 42, 43, 56)
	R141	Howard I. Chapelle: obituaries, etc.
	R142	WAB: MIT class of 1934
	R143	WAB: resumes
	R144	WAB: design time records
	R145	WAB: correspondence (1947-1982)
	R146	WAB '34: A Memorial Exhibit
	R147	Paule Loring's Marine Sketchbook (1964)
	R148	2 calendars (1 with text by WAB)
IX	R149-R157	Museum Catalogs and Newsletters
	R149	Museum catalogs
	R150	Vancouver Maritime Museum
	R151	Museum of the Adirondacks (1984)
	R152	Museum of Fine Arts, Boston
	R153	National Maritime Museum, Haifa (Israel)
	R154	Erie Canal Museum, Syracuse (NY)
	R155	<u>Sealetter</u> of the National Maritime Museum (1964-1979)
	R156	San Francisco Maritime Museum--vessels
	R157	South Street Seaport, New York
X		Maritime Art: Museum and Gallery Catalogs

RESEARCH AND REFERENCE: PHOTOGRAPH BOOKS

Book 1

- Colonial Shipbuilding (Colonial Society, 1975)
- Rockport Stone Sloops:
 - Albert Baldwin*: lines, arrangement and sail plan
 - Mary A. White*: sail plan
- Punic ship remains and new vessel under construction (Marsala, Sicily, 1979)
- Sloops:
 - Duke's plan of New York
 - Dankers' sketches
- Freighter (negatives)
- Photograph of a boat in Paris on the Seine (1952)
- Sam Svensson (negatives)
- Ships a la Rochelle (Colbert)
- Ship (ca. 1640): Hollar
- Ship (ca. 1660): Puget
- Baugean: "Collection de toutes les especes de batimens de guerre et de batimens marchands qui naviguent sur l'ocean et dans la Mediterranee designee d'apres nature et gravee par Baugean. Composee de soixante-douze planches et accompagnee d'un texte explicatif de l'imprimerie de P. N. Rougeron, a Paris, 1814" (see also slide tray 6)
- Gueroult du Pas (ca. 1700) (see also slide tray 6)
- Van de Velde (see also slide tray 6)
- Shipwright books (negatives)
- 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)
- The History of Philadelphia, 1609-1884 by J. Thomas Sharf and Thompson Westcott. Philadelphia: L. H. Everts & Company, 1884, 3 vols. (used by WAB for SNAME, 1976)

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Book 3

- Boston Atlas vessel descriptions (1851, 1853)
- L. Morel-Fatio: drawings (1842)
- Building accounts:
 - Dispatch packet (1813)
 - Boat *George* (1815)
 - Freight accounts
- Boston Gazette: vessels (1772-Oct. 1775, Mar. 1779-Dec. 1782)
- 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

RESEARCH AND REFERENCE: OVERSIZE MATERIAL

Reference and Design Files (Oversize Box I)

- Postcard of a harbor (1906)
- Fore River booklet in Spanish (no date)
- “Private Signals: Merchants of Boston” [calendar] State Street Bank (1936-1937)
- Photograph of WAB taken at MIT (no date)
- *Wasa*: 4 b&w photographs and a preliminary print of the painting *Wasa* by H. G. Smith for the National Geographic Society
- Danish vessels: church frescoes from the middle ages
- Dutch Fluyt: from the Kendall Whaling Museum
- *S.S. H. M. Whitney* (1890)
- 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.
- *Adventure* (WAB design 43): 3 b&w photographs (1970)
- *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)

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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)

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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)

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- 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 1419-41454 (drawer SO-1)
- Oil boat (#1416) for Pacific Coast Oil
1416-41410 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 1419-41452 (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)
1464-42149 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)

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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)

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- 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)

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RESEARCH AND REFERENCE: PLANS - RISDON IRON WORKS

(all filed in drawer O-5 except * filed with oversize rolled plans)

plan number	vessel name	vessel date	plan description
19288	<i>Leader</i>	1897	Stern wheel shaft/16-28 x 84 engine
19289	<i>Mary Garratt</i>	1889	Stern wheel shaft
19290			Cross variable cut-off
19291	<i>Future City</i>		Engines and steamer
19292	<i>City of Stockton</i>	1885	Stern wheel shaft
19293		1889	Stern wheel shaft-proposed
19295		1889	Stern wheel shaft
19296	<i>Enterprise</i>	1882	Stern wheel shaft
19297		1877	Stern wheel/11 x 36 engine
19298			Details
19299			Details
19300	<i>Resolute</i>	1884	Reversing engine/slide valve for 14-28 x 72 engine
19301			Standards for details
19302			Rods
19303			Reversing engine arrangement
19304			Watson's Metallic pocking
19305			Stern wheel
19306			Slide valves
19307			Details: rods
19308			Steam receiver
19309			Pillow blocks & conn. rods
19310			Valve stems & conn. rods
19311			Details: guides
19312			Outlines of centers
19313			Details: rock shafts & links
19314			Details of pistons
19315			H. P. cylinder
19316			L. P. cylinder
19317			General arrangement
19318	<i>Potrero</i>	1899	General arrangement of pipes for 17-30 x 72 engine*
19319			Paddle wheel
19320			Tee pieces on stem pipes
19321			Arrangement of pumps and details
19322			Cast steel centers
19323			Section at Fr. 13
19324			Eccentric & rod
19325			Connecting rods
19326			Guides, sole pl. & crossheads
19327			Valve gear & piston rod
19328			Pistons & cylinder heads
19329			American balance for L. P. cyl. valve
19330			H. P. & L. P. valves
19331			Main stop valve

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plan number	vessel name	vessel date	plan description
19332			Reversing eng. & gear
19333			Pillow block
19334			Crank shaft
19335			L.P. cylinder
19336			H. P. cylinder
19337			Arrangement of machinery*
746		1906	Profile, deck and cross section for proposed stern wheel bulk oil steamer
535	<i>Harold Dollar</i>	1903	Wooden screw steamer: profile and decks

❖ **SERIES DESCRIPTION** ❖
 - **SERIES II** -
BETHLEHEM SHIPBUILDING CORPORATION

BETHLEHEM SHIPBUILDING CORPORATION: FILES

Box	Folder	Contents
I	B1-B9	Capacity
	B1	Bulk grain and ore cargoes
	B2	Capacity and loading: <i>World Guidance</i>
	B3	Capacity calculations: Grace Line
	B4	General particulars and capacity, stability and trim booklet: Grace Line
	B5	Inclining reports
	B6	Loading and longitudinal strength
	B7	Loading diagrams: <i>S.S. Ancon</i>
	B8	Tonnage
	B9	Tonnage
II	B10-B18	Rigging/Welding
	B10	Rigging
	B11	Rigging: articles
	B12	Rigging: Hull No's 9509-9510
	B13	Rigging: plans, Hull No's 9509-9510
	B14	Rigging: plans
	B15	Stress analysis of rigging fittings
	B16	Welding
	B17	Welding
B18	Welding: articles and booklets	
III	B19-B29	Speed and Power/Propellers
	B19	Speed and power: appendage resistance
	B20	Speed and power: articles and reports
	B21	Speed and power: articles and reports
	B22	Speed and power: articles and reports
	B23	Speed and power: articles and reports
	B24	Speed and power: cp
	B25	Speed and power
	B26	Speed and power: W.S.A. General Order No. 10
	B27	Speed and propellers
	B28	Propellers: articles and notes
B29	Propellers: U.S. Navy	
IV	B30-B38	Structure I
	B30	Structure
	B31	Structure
	B32	Structure

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Box	Folder	Contents
	B33	Structure: articles
	B34	Strength and ventilation
	B35	Longitudinal strength
	B36	“Properties of Inverted Angles in Conjunction with Plates”
	B37	“Structure: Developed vs. Furnaced Plates” by WAB (1948)
	B38	“Optimized Design of Midship Structure” by Evan and Khoushy (1963)
V	B39-B54	Structure II
	B39	Bilge keels
	B40	Boilers
	B41	Bossing data
	B42	Instruments
	B43	Masts
	B44	Mooring fittings and standards
	B45	Shackle plans
	B46	Wood and outfit: twin screw 18-knot tanker
	B47	“Marine Engineering in Wood”
	B48	Rudder trials: <i>U.S.S. Street</i>
	B49	3” and 5” gun-rudder stress diagram
	B50	Change of stress calculations: <i>J.H. Tuttle/ R.C. Stoner</i>
	B51	Technical data/bulletins
	B52	“Data and Considerations Regarding a Ship Model Testing Basin” (1928)
	B53	General specifications booklets
	B54	Hull form data comparisons/propeller data
VI	B55-B61	Structure III
	B55	Steering
	B56	Shafting diagrams
	B57	Sectional area curves for standardized lines
	B58	Lines: curves of form
	B59	Floodable length curves: plans
	B60	Floodable length curves: plans
	B61	Subdivision
VII	B62-B66	Trim and Stability I
	B62	Trim and stability
	B63	Trim and stability
	B64	Trim and stability
	B65	Trim and stability: articles
	B66	Design notes by WAB
VIII	B67-B73	Trim and Stability II
	B67	Stability
	B68	Stability: ballast
	B69	“Results of Some Systematic Stability Calculations”

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Box	Folder	Contents
	B70	Damaged stability: Hull No's 1467, 1468, 1469 (Panama Railroad Steamship Company)
	B71	Stability/damage: Hull No's 4585, 4586, 4587 (Grace Lines)
	B72	Damaged stability: Hull No's 9509-9510
	B73	Trim and stability booklet for <i>S.S. American Crusader</i>
IX	B74-B83	Weights I
	B74	Weights
	B75	Weights
	B76	Weights
	B77	Weights: articles
	B78	Weight data
	B79	"Estimation of Machinery Weights" by S.C. Powell (SNAME, 1958/WAB discussion)
	B80	Weight summaries
	B81	Weight comparisons
	B82	Weight estimates
	B83	Hull steel and tank data
X	B84-B94	Weights II
	B84	Weights: Grace Lines
	B85	Weights: Grace Lines
	B86	Weights: Grace Lines
	B87	Hull No. 4584 (Grace Lines)
	B88	Weights and centers: Hull No. 1421
	B89	Weights and trim statement: Hull No. 1424, <i>Naushon</i>
	B90	Hull No. 1665, <i>Princess Sophie</i>
	B91	Dry bulk carriers: long l and transverse steel weights
	B92	Tankers: long l and transverse steel weights
	B93	Weights: T2 tankers
	B94	Tanker weights
XI	B95-B103	Weights III
	B95	Weights: U.S. Navy
	B96	Weights: U.S. Navy
	B97	Weights: U.S. Navy
	B98	C4-S-1a
	B99	C4-S-B2/c4-S-B5
	B100	Liberty Ship
	B101	Weights and moments: ocean escort (DE 1040 class)
	B102	Weights and moments: gas turbine destroyer (PR2136)
	B103	Weight curves for Quincy Yard hulls
XII	B104-B111	Weights IV
	B104	Finished machinery weights: <i>Everett</i>
	B105	Finished machinery weights: steam trawler <i>Spray</i>
	B106	Finished machinery weights: <i>South Shore</i>

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Box	Folder	Contents
	B107	Finished machinery weights: <i>S.S. Providence</i>
	B108	Detail sheets of weight estimates: 50,000 ton bulk ore carrier
	B109	Passenger and cargo weights
	B110	Weight per foot: passenger and cargo vessels
	B111	Light ship weight: vessels
XIII	B112-B120	Vessel Types I
	B112	Carfloats, barges, dredges, towboats, dry docks
	B113	Day passenger steamer
	B114	Dry docks
	B115	Chemical carriers
	B116	Chemical carriers
	B117	Special liquid cargoes
	B118	Drilling rigs
	B119	Drilling rigs
	B120	Drilling rigs: articles
XIV	B121-B144	Vessel Types II
	B121	Ferry boats
	B122	Great Lakes and River passenger steamers
	B123	Light ships
	B124	"Data and Prints on River, Lake, Bay and Sound Steamers"
	B125	Ore carriers
	B126	Vessel information sheets: cargo and passenger ships and tankers
	B127	Passenger and cargo ships
	B128	Tankers, passenger and cargo ships, tugs, dredges, barges
	B129	Tankers
	B130	Trawlers: General Seafoods Corporation
	B131	Trawlers: General Seafoods Corporation, plans
	B132	Twin screw passenger and freight steamship
	B133	Yachts, sailing barques, motor patrol boats, Coast Guard cutters, rotor ships, lightships, lighthouse tenders, fire boats
XV	B134-B143	Vessel Lists By Yard
	B134	Bethlehem Steel brochures
	B135	Ship's particulars: Harlan Plant
	B136	Lists of ships built: Beaumont (Texas) Yard, 1926-1963
	B137	Lists of ships built: Staten Island Yard (including Brooklyn 27th Street Yard), 1915-1958
	B138	Lists of ships built: San Francisco Yard, 1884-1962; Bethlehem-Alameda Yard, 1901-1946; San Pedro Yard, 1918-1946
	B139	Lists of ships built: San Francisco Yard, 1884-1962; Bethlehem-Alameda Yard, 1901-1946; San Pedro Yard, 1918-1946
	B140	List of ships built: Bethlehem-Sparrow's Point (Maryland) Yard, 1892-1963
	B141	Design data of old Fore River ships, 1904-1912

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Box	Folder	Contents
	B142	List of ships: Mystic Steamship Company
	B143	Hull and plan numbers: Quincy and Sparrow's Point Yards
XVI	B144-B154	Plans: Hull Numbers 1422-1691
	B144	H-1422 <i>Berwindglen</i>
	B145	H-1424 <i>Naushon</i>
	B146	H-1425 <i>Seaboard No. 1</i>
	B147	H-1426 <i>No-Nox</i>
	B148	H-1432 <i>Borinquen</i>
	B149	H-1440 <i>S.S. Mariposa</i>
		H-1441 <i>S.S. Monterey</i>
		H-1447 <i>Lurline</i>
	B150	H-1464, 1465, 1464
	B151	H-1467 <i>Panama</i>
		H-1468 <i>Ancon</i>
		H-1469 <i>Cristobal</i>
	B152	H-1474, 1475, 1476, 1477
	B153	H-1688 <i>S.S. American Contender</i>
	B154	H-1690, 1691
XVII	B155-B164	Plans: Hull Numbers 4306-9503
	B155	H-4306, 4307, 4308, 4309
	B156	H-4327 <i>S.S. Connecticut</i>
	B157	H-4329
	B158	H-4332, 4333, 4353
	B159	H-4337, 4338, 4339
	B160	H-4341, 4342, 4343, 4350, 4351, 4352
	B161	H-4378-4390 <i>U.S.S. Cacaphon</i>
		H-4397
	B162	H-4376 <i>S.S. Mobil Oil</i>
		H-4377 <i>S.S. Mobilight</i>
	B163	H-8015-8019, 5360-5364, 4344-4348
	B164	H-9503 <i>Admiral R.E. Coontz</i>
XVIII	B165-B172	Plans By Vessel Name or Type
	B165	<i>Gadsen</i>
	B166	<i>USCGC Magnolia</i>
	B167	<i>Sainte Helene</i>
	B168	<i>Sainte Helene</i>
	B169	<i>Sea Hawk</i>
	B170	<i>M.S. Skauvann</i>
	B171	Design No. C-2
	B172	CL95-98
XIX	B173-B188	Historical Plans Including Union Iron Works
	B173	Proposed stern wheel tanker, 1909 (Union Iron Works)
	B174	<i>S.S. Arago</i> , 1885

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Box	Folder	Contents
	B175	Twin screw steamer ferry <i>City of Sacramento</i> , 1903
	B176	<i>S.S. Doris</i> , 1908
	B177	Lumber steamers <i>Edna Christenson/Lucinda Hanify</i> , 1917
	B178	<i>Frank G. White</i>
	B179	Stern wheel steam ferry <i>Lagunitas</i> , 1903
	B180	<i>Lake Tahoe</i> , 1896
	B181	Tug <i>Peter W. Bradley</i> , 1877
	B182	Gas screw ferry <i>Ramon</i> , 1914
	B183	Steamer <i>Raymond</i> , 1906
	B184	7-masted schooner <i>Thomas W. Lawson</i>
	B185	<i>Wallace</i>
	B186	Schooner <i>Yampa</i> , 1887
	B187	Fletcher engine plans: correspondence
	B188	Surface Vessel Recognition Manual, 1943

BETHLEHEM SHIPBUILDING CORPORATION: OVERSIZE MATERIAL

Bethlehem Shipbuilding Corporation Files (Oversize Box II)

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

**BETHLEHEM SHIPBUILDING CORPORATION: PLANS - WILLIAM A. BAKER,
ARCHITECT**

Socony Vacuum (H-4333, 4332) single screw tanker

- Blueprint of scantling plan (1932) (roll file A2)

BSC sketches (drawer Z-3)

- Shackle (1947)
- 100 ton shackle (1947)
- Proposed 365 ft. ore carrier, P-1308 (1943)
- Proposed Great Lakes ore carrier (1950)
- P2-SE2-R1 (1942) preliminary outboard profile, H-9501-10
- 18 knot dry cargo ship, American Export Lines (no date)
- Twin screw ore 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.

There are duplicate blue-line reproductions and blueprints of the following plans (oversize rolled): X-1, XII-1, 14, 14B, 14E (except plan H-2), 25-1A, 25-2A, 25-4, 27, 31, 34, 35-1, 40, 43 (except 43R-1), 47, 48, 49, 49-1, 53, 57-H3/F2/R1/R3/R4 and poster, 69, Sk 69-1, Sk 69-2, 71-1, 75

Box	Folder	Contents
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, <i>Columbia River</i> of 1891 (1948) Related material: scrapbook 12 Two articles (1949 WAB, 1976)
	14C-1	Sloop <i>Gjøa</i> 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 <i>Gjøa</i> voyage.

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Box	Folder	Contents
	14C-2	Correspondence; specifications for the restoration and preservation of hull and rigging (1948, 1972); notes.
	14C-3	Photographs: model and reconstruction (1940's).
	14C-4	Historical photographs (1900-1920); photograph of <i>Gjøa</i> painting with news clipping on crew (frame made from part of cabin table of original <i>Gjøa</i>).
	14D	Stern Wheel Steamer <i>Petroleum No. 3</i> 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, <i>Petroleum No. 3</i> ".
	14E-1	Merchant Ship <i>Mayflower II</i> 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 <i>Mayflower</i> replica (1955); plan list; copies of plans and sketches (anchor and details); notes; graphs and lines drawings; correspondence regarding design ownership (1987).
	14E-2	Photographs: model and ship (construction through completion, and under sail).
	15	17' Catboat (1955) Related material: scrapbook 12 Lines drawings, profile sketch, notes.
	16	Shallop for <i>Mayflower II</i> of 1620 (1955) Related material: design notebook A, second donation files, scrapbook 12 Copies of plans; photographs of the vessel.
	17	Longboat for <i>Mayflower II</i> (1955) Related material: design notebook A, second donation files, scrapbook 12
	18	Pinnace <i>Virginia</i> 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.

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Box	Folder	Contents
	20	Cruising Sloop (1957) Related material: scrapbook 12 Profile sketch (pencil); lines and notes.
II	21	Gundalow (Gondola, Gunboat) <i>Philadelphia</i> 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 <i>Answer</i> of 1600's (1958) Related material: design 29, scrapbook 12 Notes on camber.
	25	Shallop <i>Aviza</i> 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 <i>Gay</i> ; article on art and yacht design.

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Box	Folder	Contents
28		Chebacco Boat ca. 1770 (1961) “Notes from the History of the Town of Rockport, 1888”; copies of plans from <u>Sloops and Shallops</u> ; notes.
29		24' Shallop <i>Answer</i> (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 <i>Welcome</i> 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 <i>East Hue & Cry</i> 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 <i>Mayflower</i> 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; <u>North River Notes</u> by WAB; notes.

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Box	Folder	Contents
	36-37	Saint John Wood Boats (1965)
	38	Sloop ca. 1838 (1965)
	39	Delaware River Shallop of 1818 (1965) Notes.
	40	Topsail Schooner <i>Gaspee II</i> 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 <i>Deliverance</i> 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); " <i>Deliverance</i> : Work in Progress and a Projection of Work for 1980".
	41	American Revolutionary War Schooner <i>Hannah</i> of ca. 1776 (1968) Related material: drawer O-2 Photographs of half model; correspondence; notes, sketches, lines; news clippings; reproduction of <u>Colony Ledger</u> of 1775 from the Marblehead Historical Society; articles; proposal for <i>Margaretta</i> , a vessel similar to <i>Hannah</i> (1974)..
	42	Ship <i>Carolina</i> 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 <i>Carolina</i> ; copies of the 1926 model plans; prospectus for a model of the ship <i>Carolina</i> of 1670; copies from the South Carolina Historical Society of The Shaftsbury Papers; the <i>Carolina</i> fleet; copies of early maps of Charleston Harbor; "lists of ships found in connection with <i>Carolina</i> , 1670-1700"; brochure on <i>Carolina</i> and <i>Adventure</i> .

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Box	Folder	Contents
	43-1	Colonial Trading Ketch <i>Adventure</i> of 1670 (1969) Related material: file R140, design notebook A, slide tray 3, oversize box I, second donation files, scrapbooks 8, 13, 16 Design: notes, graphs, lines; report from Herreshoff and Kerwin, Inc.; sketches, details and flags.
	43-2	Photographs: at sail and showing damage to vessel; copies of plans and cards; brochure on <i>Adventure</i> and <i>Carolina</i> ; brochure and advertisement for Charles Town Landing; articles.
	43-3	Photographs: including photograph of the <i>Adventure</i> stopped near a surfaced submarine.
	44	Schooner <i>Pilot</i> (1971) Related material: slide tray 3, drawer O-2, scrapbooks 10, 13 Photograph showing new rig; correspondence; notes; Herreshoff and Kerwin report.
	45	Gondola (1972) Related material: second donation files "A Study of Gondola's for the Society for the Preservation of Historic Landmarks in York County [Maine], Inc." (1972); notes on scow sloops.
	46	Dutch Model Whaleship of the 1600's (1972) Correspondence; notes on rigging and masts.
	47	Shallop in Halves of 1602 (Gosnold's Shallop, for <i>Concord</i>) Related material: design 48, design notebook A Correspondence; sketches; notes; reproduction of drawing of " <i>Concord's</i> shallop. After Wall."
	48	Bark <i>Concord</i> of 1602 Related material: design 47, design notebook A, slide tray 3, second donation files, scrapbook 13 Copies of plans; correspondence; notes on rigging and sails; sketches of masts; notes on decks, heights and scantlings; pencil profiles and copies of vessel sketches.
IV	49	Brig <i>Beaver II</i> of 1773 (1972) Related material: design notebook A, slide tray 3, second donation files, scrapbooks 10, 13 Photographs showing rig; vessel history; correspondence; interior drawing, figurehead and details; notes; words to "Revolutionary Tea" song.

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Box	Folder	Contents
50		Frigate <i>Essex</i> of 1799 (1972) Related material: design notebook A, drawer O-2, second donation files, scrapbook 13 Notes; copies of historical plans for <i>Chesapeake</i> ; "Dimensions" data from Essex Papers, Peabody Museum (1977); copies of Josiah Fox papers, Peabody Museum.
51		Tobacco Ship <i>Brilliant</i> 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 <i>Middlesex</i> and <i>Henry Scudder</i> of 1776 (1974). This file relates to the <i>Middlesex</i> , which was the original vessel built. The <i>Henry Scudder</i> was later built by a different organization from the same plans. See "The Whaleboat <i>Middlesex</i> Technical Notes" by WAB in <u>Nautical Research Journal</u> : 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 <i>Brilliant</i> (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 <i>San Esteban</i> of 1554 (1975) Related material: slide tray 3 Correspondence.
56		North Sea Boat <i>Batchelor</i> of 1635 (1976) Related material: file R140, slide tray 3, second donation files, scrapbook 13 Copies of plans; notes.

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Box	Folder	Contents
	57-1	Pinnacle [Maryland] <i>Dove</i> of 1634 (1976) Related material: design notebook A, slide tray 3, second donation files, scrapbooks 11, 13, 20 Brochure on vessel; "A Note on the Rig of the DOVE"; sketches and drawings; notes; specifications; copies of historical maps; articles; notes on <i>Ark</i> and <i>Dove</i> models; report on hydrostatic and righting arm calculations from Herreshoff & Kerwin (1977).
	57-2	Photographs.
	58	Whaling Bark <i>William Baylies</i> of 1886 (1976)
	59	Steam Whaling Bark <i>North Star</i> 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 <i>Parrot</i> 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 <i>Rose Dorothea</i> 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 <u>Rudder</u> and <u>Yachting</u> ; 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	<i>Sparrow-Hawk</i> (1978) Related material: scrapbook 13

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Box	Folder	Contents
66		Western Rivers Keelboat (1978) Related material: second donation files Sketches and notes; reproduction of a page from <u>Boats and Boatbuilding</u> showing a sketch of a keelboat.
67		Weymouth Back River Gundalow (1978) Related material: second donation files
68		<i>Pleiades</i> 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 <i>Ernestina</i> /ex <i>Effie M. Morrissey</i> 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 <i>Niantic</i> of 1835 Related material: drawer O-2, second donation files, scrapbook 13 Notes; sketches; correspondence; newspaper clippings; histories of the vessel; minutes of “ <i>Niantic</i> meeting” (1978); memo: “Recommendations for Preservation of the Material Remains of the <i>Niantic</i> 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 <i>Niagara</i> Related material: drawer O-2, oversized box I, second donation files, scrapbook 13 Original plans property of the Commonwealth of Pennsylvania Sketches and plans; correspondence, including a list of restoration work at flagship <i>Niagara</i> ; preliminary report: restoration of the flagship <i>Niagara</i> - Erie, Pennsylvania (1962); specifications; preliminary study and survey; maintenance and condition report (1980).

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Box	Folder	Contents
	72-2	Notes; grant application; copies of the Chappelle plans from 1939.
	72-3	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.
	73	44-Gun Frigate <i>U.S.S. Constitution</i> of 1797 (1980) Related material: design notebook A, drawer O-2, oversized box I, scrapbook 13 Photograph of the <i>Constitution</i> at sail ca. 1880; brochure on the vessel; securities prospectus--souvenir history of the <i>Constitution</i> ; specifications for structural exhibits; sketches and notes; copies of historical documents (1794); material from the <i>U.S.S. Constitution</i> Museum.
	74	Spanish Galleon <i>Los Tres Reyes Magos</i> 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.
	75	<i>Elizabeth II</i> 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.

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VESSEL DESIGNS: PLAN LIST

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

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- 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 Focsle, 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 crossrees
 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)

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- 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 Pinnacle *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

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- 24 21 foot Shallop *Answer* (1958) - plans in drawer SO-3
See design 29
 24-1 Lines
 24-2 Construction plan
 24-3 Sail plan and miscellaneous fittings
- 25 Shallop of 1725 (1958) - duplicate plans in drawer SO-3
Client: Captain Richard Blackburn Black, USNR, Rippon Lodge, Woodbrige, Virginia
 25-1A Lines (25-1 final)
 25-2A Construction plan (25-2 final)
 25-3A Portable house (25-3 final)
 SK. A Sail plan (25-4 final)
 25-5 Square sail
- 26 Colonial Sloop (1959) - no plans?
Client: Alden Johnson
- 27 Colonial Bark of ca. 1640 (1960) - plans in drawer SO-3
 Lines
 Arrangement and construction
 Sail plan
- 28 Chebacco Boat (1961) - plans in drawer SO-3
 Lines
- 29 24 foot Shallop *Answer* (revised) (1961) - plans in drawer SO-3
Client: Richard Nason
 29-1 Lines and offsets (1962)
 29-2 Construction plan (1962)
 29-3 Sail plan and miscellaneous fittings (1962)
 Specifications (1962)
- 30 Copenhagen Ship (1961) - plans in drawer SO-3
- 31 William Penn's *Welcome* (1962) - plans in drawer SO-3
Client: Philadelphia Department of Commerce, Port Division, for painting by H. Garrett Smith; *Pennsylvania* at William Penn Museum, Harrisburg, Pennsylvania (1963)
Preliminary studies (1962)
 SK-31A Lines
 SK-31B Sail plan
 SK-31C Midship section
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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- 32 Newburyport Model of 1690 (1963)
32-1 Refaired lines
- 33 Friendship Sloop (1964)
Client: W. Partridge
- 34 Two-Masted Boat (1964) - plans in drawer SO-3
Client: Winslow Myers
Original plans owned by Maine Maritime Museum
34-1 Lines
34-2 Construction plan
34-3 Sail plan
- 35 *Mayflower* of 1823 (1964) - plans in drawer SO-3
North River (Massachusetts) Packet Sloop based on builder's model in Hart Nautical
Museum
Lines from model
Arrangement
Sail plan
- 36 Saint John Wood Boat (1965) - plans in drawer SO-3
36-1 Lines from model
- 37 Saint John Wood Boat (1965) - plans in drawer SO-3
37-1 Lines from model
- 38 Sloop of ca. 1838 (1965) L. M'Kay, Plate 5 - plans in drawer SO-3
38-1 Lines
- 39 Delaware River Shallop of 1818 (1965) - plans in drawer SO-3
39-1 Lines
- 40 Reproduction of *Gaspée* (1967) - plans in drawer SO-3
Model for MIT built by Erik Ronnberg, Jr.
40-1-D Lines
40-2-D Construction plan
40-3-D Midship section
40-4-D Sail plan
Specifications
- 40A *Deliverance* of 1610 (1967) - plans in drawer SO-3
Client: Bermuda Junior League
Dry-land waterline reproduction, hull plans by Cyril Smith, Bermuda
Rigging plan
- 41 Reproduction of *Hannah* (1968) - plans in drawer SO-3
41-1 Lines

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- 42 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.) |
- 43 *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 |
- 44 *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 |
- 45 Gundalow/Gondola (1972)
Client: Society for the Preservation of Historic Landmarks, York County, Inc.

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- 46 Dutch Model (1972) - plans in drawer SO-3
Client: Kendall Whaling Museum
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

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- 51 *Brilliant* (1974) 1775 Tobacco Ship - duplicate plans in drawer SO-3
Client: Smithsonian Institution
Original plans owned by the Smithsonian Institution
51-1 Lines
51-2 Inboard profile and sections
51-3 Decks
51-4 Arrangement of framing
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

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- 58 *William Baylies* (1976)
Client: Old Dartmouth Historical Society
Lines from model
- 59 *North Star* (1976)
Client: Old Dartmouth Historical Society
Lines from model
- 60 *Parrot boat (jolly wat) for the Dove* (1976) - plans in drawer SO-3
Client: St. Mary's City Commission
60-1 Lines
60-2 Construction plan
60-3 Sail plan and miscellaneous details
- 61 *Rose Dorothea* of 1905 (1977) - plans in drawer SO-3
Client: Provincetown Association, Inc.
61-H-1 Lines and offsets (above water only)
- 62 *Cruise Schooner* (1977)
Client: Paul H. Dunn
Preliminary lines
Preliminary sail plan
- 63 *Ship Draught on Plank* - plans in drawer SO-3
H-1 Roll file A1, negative in roll file B3
H-1, H-2 Negatives in roll file B2
- 64 *Sparrow-Hawk* (1978)
Client: Pilgrim Society, Plymouth, Massachusetts
64-1 Sail plan
- 65 *Massachusetts, U.S. Rev. Mar* - plans in drawer SO-3
- 66 *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
- 67 *Weymouth Back River Gundalow* (1978)
Report only
- 68 *Pleiades* of 1828 (1978), Hawksnest half model
Study plan (incomplete, unsigned, undated)

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- 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 Pinnacle 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

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- 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 Focsle, 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 O-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)

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- 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 & Nicholsons, 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

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- 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 Chappelle 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)

❖ **SERIES DESCRIPTION** ❖

- SERIES IV -
NOTEBOOKS

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

Guide to The William A. Baker Collection

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 Encyclopedia (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)

❖ SERIES DESCRIPTION ❖

- SERIES V -
SLIDES

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 <i>Mayflower II</i> 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 - <i>Mayflower II</i> - Greece - Yugoslavia
Box 9	Notes on historic vessels slides

❖ SERIES DESCRIPTION ❖

- SERIES VI -
PUBLICATIONS AND LECTURES

PUBLICATIONS AND LECTURES: WRITINGS AND PUBLICATIONS

- “*Adventure*: A Seventeenth Century Ketch.” The American Neptune April 1970.
- “American Colonial Shipbuilding.” The LOG of Mystic Seaport July 1976.
- “Another *Mayflower*?” The American Neptune July 1965.
- “The Arrangement and Construction of Early Seventeenth Century Ships.” The American Neptune April 1957.
- “Boston’s Maritime Heritage.” Boston: published in conjunction with the exhibition Gateway to the Sea, 1980.
- The Carolina & Adventure. Charleston: Charles Towne Landing, 1970.
- “The Development of Catamaran Hulls.” MIT S.B. thesis and rough draft, 1934.
- Drafts of articles published in Mariner’s Mirror:
- “Aspects of the History of Wooden Shipbuilding by J. S. Morrison.” August 1971.
- “The Joinery of Medieval Hulls.” July 1959.
- “More on the Framing of Models.” February 1954.
- “Sliding Keels.” November 1970.
- “Early Seventeenth Century Ship Design.” The American Neptune October 1954.
- “Garret Archaeology.” The American Neptune July 1978.
- “History of Ships and Shipbuilding: Bibliography.” Cambridge: privately distributed, 1981.
- A History of the First 75 Years. Report 69-3. Cambridge: MIT Department of Naval Architecture and Marine Engineering, 1969.
- Maine Shipbuilding: A Bibliographic Guide. Portland: Maine Historical Society, 1974.
- “The *Mayflower* Problem.” The American Neptune January 1954.
- Notes on a proposed America’s Cup book (1973-1974).
- “Notes on a Shallop.” The American Neptune April 1958.
- “Pity the Welder.” Marine Engineering March 1939.
- Seventeenth Century Boats and Vessels on Buzzard’s Bay. 1972. Old Dartmouth Historical Sketch Number 83. New Bedford: Old Dartmouth Historical Society, 1982.
- “Shipbuilding in Colonial America by Joseph A. Goldenberg.” Technology and Culture 17 (1976)
- “Vessel Types of Colonial Massachusetts.” Seafaring in Colonial Massachusetts. Boston: University Press of Virginia for The Colonial Society of Massachusetts, 1980.

PUBLICATIONS AND LECTURES: CONFERENCES AND LECTURES

- “125 Years of Yacht Design.” New London, Connecticut: SNAME Sailing Yacht Symposium, January 1976.
- “Commercial Shipbuilding and Shipping in the Delaware Valley.” Philadelphia: SNAME Spring Meeting, June 1976.
- “Considerations in Building Reproductions.” Baltimore: National Trust for Historic Preservation, First National Maritime Preservation Conference, June 1977.
- “Development of Wooden Ship Construction.” SNAME (New England Section), March 1955.
- “A History of Marine Standards.” Feasibility of Shipbuilding Standards Seminar. Castine, Maine: U.S. Department of Commerce, Maritime Administration, in cooperation with Bath Iron Works Corporation, June 1976.
- 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”
- “On the Development of Ships’ Forms.” SNAME (Northern California Section), October 1947.
- “The Preservation of Chesapeake Bay Watercraft.” Annapolis: SNAME Chesapeake Bay Sailing Yacht Symposium, January 1977.
- “Sailing Reproductions of Historic Ships.” Tampa: First Florida Maritime Heritage Conference, March 1980.
- “Ships, Weapons, and Protection, 1400-1900.” Greenwich, England: National Maritime Museum, History of Nautical Science and Hydrography 3rd Reunion, September 1979.
- “Schooner Design and Construction.” Symposium of the American Schooner: Conference Proceedings. Bath: Bath Marine Museum, May 1973.
- Symposium on Sailing Yacht Research: Conference Proceedings. Cambridge: MIT, November 1966.

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)
"The Downeasters: Design & Construction." (1974 symposium)
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 M.S. I: "The Mayflower Problem." (1954-1955)
Mayflower II M.S. II: "Early 17th Century Ship Design." (1955).
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)
New England and the Sea (1970-1973)
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 (1966, 1978-1990)
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

Book	Description
1	News clippings (1939-1981), including publicity on Bath history, Baker designs, and the Hart Nautical Museum
2	Travel: news clippings, photographs (1972-1973)
3	Travel: news clippings, photographs, including <i>Gjøa</i> photographs (1974-1975)
4	Travel: news clippings, photographs (1976)
5	Travel: Europe (volume I, 1952-1958), including <i>Mayflower II</i>
6	Travel: Europe (volume II, 1952)
7	Travel: Europe (1958, 1972)
8	Designs: <i>Carolina</i> (42) and <i>Adventure</i> (43) in South Carolina (1970)
9	Designs: <i>Aviza</i> shallop (25) and <i>Middlesex/Henry Scudder</i> (52)
10	Designs: <i>Pilot</i> (44), <i>Beaver</i> (49), and <i>Elizabeth II</i> (75)
11	Designs: <i>Dove</i> (57) and <i>Parrot</i> (60)
12	Designs: Baker design book A2, including plans, photographs and clippings for designs I, IV, VI, VII, VIII, IX, 14B, 14C, 14E, 15, 16, 17, 18, 20, 21, 24/29, 25, 26, 27, 29, 31, 32, 34, 35
13	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
14	Designs: scrapbook of WAB's work on the <i>Mayflower II</i> presented to RSB by Plimoth Plantation (June 5, 1982)
15	Designs: <i>Mayflower II</i> special events (1957-1990)
16	Designs: <i>Mayflower II</i> , <i>Carolina</i> , <i>Adventure</i> , <i>Gjøa</i>
17	Designs: <i>Mayflower II</i> , <i>Aviza</i> shallop, <u>Sloops & Shallops</u> (1958-1981)
18	Designs: <i>Mayflower II</i> in England (1957-1959)
19	Designs: <i>Mayflower II</i> , <i>Gjøa</i> (1949-1957)
20	Designs: <i>Mayflower II</i> , <i>Dove</i> (1957)

❖ SERIES DESCRIPTION ❖

- SERIES VIII -
MEMORABILIA

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

- Akerlund, Harald. Fartygsfynden I Den Fornä Hamnen I Kalmar (with an English summary). Uppsala: Almqvist & Wiksells Boktryckeri AB, 1951.
- Akerlund, Harald. Nydamskeppen en Studie I Tidig Skandinavisk Skeppbyggnadskonst (with an English summary). Göteborg: Elanders Boktryckeri Aktieföretag, 1963.
- American Bureau of Shipping. Rules for Building and Classing Steel Vessels. New York: American Bureau of Shipping, 1981.
- American Bureau of Shipping. Rules for Building and Classing Steel Vessels. New York: American Bureau of Shipping, 1962.
- Attwood and Copper. A Textbook of Laying Off or the Geometry of Shipbuilding. 1918.
- Attwood, Edward L. and Herbert S. Pengelly. Theoretical Naval Architecture. London, New York: Longmans, Green and Company, 1931.
- Attwood, Edward L., Herbert S. Pengelly and Alfred J. Sims. Theoretical Naval Architecture. London, New York: Longmans, Green and Company, 1956.
- Baker, G. S. Ship Design, Resistance and Screw Propulsion: Volume I - The Design of Shipforms and Their Resistance. Liverpool, England: The Journal of Commerce and Shipping Telegraph, 1949.
- Baker, William A. Colonial Vessels: Some Seventeenth-Century Sailing Craft. Barre, Massachusetts: Barre Publishing, 1962.
- Baker, William A. Sloops and Shallops. Barre, Massachusetts: Barre, 1966.
- Baker, William A. The Mayflower and Other Colonial Vessels. Annapolis: Naval Institute Press, 1983.
- Baker, William A. The New Mayflower: Her Design and Construction. Barre, Massachusetts: Barre, 1958.
- Bethlehem Steel Company. Bethlehem Manual of Steel Construction: Structural Shapes. Bethlehem, PA: Bethlehem Steel Company, 1934.
- Blackman, D. J., ed. Marine Archaeology: Proceedings of the 23rd Symposium of the Colston Research Society held in the University of Bristol, April 4-8, 1971 (volume 23 of The Colston Papers). Hamden, Connecticut: Archon Books, 1973.
- Bowen. A Century of Atlantic Travel. 1830-1930, 1930.
- Brewington. Chesapeake Bay: A Pictorial Maritime History, 1956, with insert pamphlet by Brewington on Chesapeake Bay Sailing Craft, 1966.
- Brouwer. Historic Ships International Register. 1985, with update insert dated June 1986.
- Comrie, L. J., ed. Barlow's Tables of Squares, Cubes, Square Roots, Cube Roots and Reciprocals. 4th edition. London: E. & F. N. Spon; New York: Chemical Publishing, 1942.
- Cutler. Queens of the Western Ocean. 1961.
- Dana, R. W., ed. Transactions of the Institution of Naval Architects. Volumes XXIX and L. London: Institute of Naval Architects, 1888, 1908.
- Danske bedtyper opmalt og beskrevet af Christian Nielsen (with a summary in English "Danish Coastal Boat Types") Host & Sons Forlag, [1974].
- Davis. Ship Model Builder's Assistant. 1955.
- de Palacio, Diego Garcia. Instrucción Náutica para Navegar. 1587. Volume VIII, book IV. Madrid: 1944.

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- de Palacio, Diego Garcia. Nautical Instruction, 1587. Translation J. Bankston. Bisbee, Arizona: Terrenate Associates, 1986.
- Dobbins, W. W. History of the Battle of Lake Erie and Reminiscences of the Flagships *Lawrence* and *Niagara*. 2nd edition. Erie, Pennsylvania: Ashby Printing, 1913.
- Eshback, Ovid E., ed. Handbook of Engineering Fundamentals. Wiley Engineering Handbook Series. New York: John Wiley, 1936.
- Fassett, F. G., ed. The Shipbuilding Business in the United States of America. 2 volumes. New York: SNAME, 1948.
- Gilfillan. Inventing the Ship. 1935.
- Goell, ed. A Sea Grammar. 1970.
- Grieve, Hilda E. P. Examples of English Handwriting, 1150-1750. Essex Record Office Publications No. 21. Essex, England: Essex Education Committee, 1954.
- Gruss, Robert. Petit Dictionnaire de Marine. 3rd edition. Paris: Challamel, 1963.
- Guthorn. The Sea Bright Skiff and other Jersey Shore Boats. 1971.
- Hardingham, John. The Accomplish'd Ship-Wright and Mariner. London: printed for Richard Mount and Company on Tower-Hill, 1709.
- Holdcamper, Forrest R., compiler. List of American-Flag Merchant Vessels that Received Certificates of Enrollment or Registry at the Port of New York, 1789-1867: volume 1 and 2. Washington, D.C.: The National Archives, 1968.
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- Johnstone. The Sea-Craft of Prehistory. 1980.
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- Lever, Darcy. The Young Sea Officer's Sheet Anchor or a Key to the Leading of Rigging and to Practical Seamanship. 2nd edition. New York: Edward W. Sweetman, 1955.
- Longridge. The Anatomy of Nelson's Ships. 1955.
- Maw, W. H. and J. Dredge, eds. Engineering: An Illustrated Weekly Journal, volume XXI, January to June, 1876. London: Office for Advertisements and Publications, 1876.
- Merchant Vessels of the United States. 1944, 1948.
- Murray, Athole J. Strength of Ships. London; New York: Longmans, Green, 1916.
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- Rooij, G. Ships and Marine Engines Volume IIIA: Practical Shipbuilding. N. V. De Technische Uitgeverij: H. Stam-Haarlem-Holland, 1953.
- Saunders, Harold E. Hydrodynamica in Ship Design: volume 1 and 2. New York: SNAME, 1957.
- Schaufflen. Die Letzten Grossen Segelschiffe, 1969.
- Schokker, J. C., E. M. Arkenbout Neuerburg, and E. J. Vossnack. Ships and Marine Engines Volume VI: The Design of Merchant Ships. N. V. De Technische Vitgeverij: H. Stamm-Haarlem-Holland, 1953.
- Seaton, E. A. A Manual of Marine Engineering: comprising the designing, construction, and working of marine machinery. 3rd edition. London: Charles Griffin, 1884.

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❖ APPENDIX B ❖

- PLAN INVENTORIES -

PLAN INVENTORIES: ROLL FILE

Location	Description
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 <i>Socony Vacuum</i> (H-4333, 4332) BSC plan drawn by WAB Blueprint of scantling plan (1938)
A3	WAB design 68: <i>Pleiades</i> Hawksnest half model study Side view/lines
A4	WAB design X: tunnel stern scow X-1 Plan (1946)
A5	WAB design 69: schooner <i>Ernestina</i> , ex <i>Effie M. Morrissey</i> 69-R-4 Fife rails, boom and bowsprit fittings (1978)
A6	Russian auxiliary cruiser <i>Lena</i> (1896) Built by R. & W. Hawthorn Leslie & Company, Ltd. 378-6936 Poop, bridge and forecastle plan 378-6937 Upper deck plan 378-6939 Sheer draught lines
B1	Barque <i>Annie Johnston</i> (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: <i>Beaver II</i> 49-1 Rig (negative)
B4	WAB design 72: <i>Niagara</i> Rigging profile negative

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Location	Description
B5	WAB design 57: <i>Dove</i> Sail plan negative
B6	Belfry for <i>Hart</i> 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 <i>Gracie S.</i> Lines and profiles (3 plans)
C3	<i>U.S.S. Olympia</i> and <i>U.S.S. Oregon</i> 1339-39785 30' gig whaleboat 1339-35790 29' whale boats 1337-39769 32' sailing launch
C4	<i>Cruiser No. 5</i> (Union Iron Works, 1889) 1470-42190 Berth deck planking
C5	3730-ton twin screw steel cruiser <i>U.S.S. Charleston</i> (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	<i>Piedmont</i> passenger ferry no. 5 (Union Iron Works, no date) Deck and sheer plan
D2	3730-ton twin screw steel cruiser <i>U.S.S. Charleston</i> (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.

Design Number	Description
14C	Correspondence: St. Olav's Medal (1949)
14E	Correspondence: R.C. Anderson (1947-1958)
	Correspondence: Sir Alan Moore (1957-1959)
	Correspondence: W. Salisbury (1961-1966)
	Plan packet (1959, 1982, 1990)
	Specifications, lines and plans (1952-1956)
	Plimoth Plantation trustees reports (1957, 1990-1991)
	Plimoth Plantation (1952-1963)
	Plimoth Plantation (1982-1991)
	Maintenance and exhibits (1961-1991)
	Upham (builder) and launching (1956-1958)
	Project contract, BSC publicity (1950-1957)
	BSC publicity (1955-1957)
	<i>Mayflower II</i> publicity
	Publicity
	Models
	Photographs
	Copies of plans (2 folders)
16	Building of shallop
16,17	Shallop
18	Publicity-related materials
21	Publicity-related materials
27	Drawings and correspondence regarding models (1963-1978)
	Plan packet
31	Publicity-related materials
34	Publicity-related materials
35	Publicity-related materials
40	Publicity-related materials
40A	Publicity-related materials
42	Publicity-related materials
43	Publicity-related materials
45	Gundalows
48	Publicity-related materials (1972-1982)
49	Publicity-related materials
50	Publicity-related materials
51	Publicity-related materials
52	Publicity-related materials
56	Publicity-related materials

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Design Number	Description
57	<i>Dove</i> ; St. Mary's City Commission
60	Jolly wat; Kalmar Nyckel Foundation, 1986
66	Keelboat
67	Publicity-related materials
70	Publicity-related materials
72	Publicity-related materials
75	Building, publicity, under sail (1978-1986)
Plan Index	
Manuscripts -- design proposals	

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PERSONAL CORRESPONDENCE

BSC and SNAME (1941-1959)
Historical Ships and Preservation, National Trust for Historic Preservation (1976)
NASOH bibliography sheet (1981)
Correspondence: National Geographic (1961-1976, 1981)
New Bedford Whaling Museum memorial exhibit (1981-1982)
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)
"The Downeasters: Design & Construction." (1974 symposium)
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 M.S. I: "The Mayflower Problem." (1954-1955)
Mayflower II M.S. II: "Early 17th Century Ship Design." (1955).
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)
New England and the Sea (1970-1973)
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 (1966, 1978-1990)
Sloops & Shallops manuscripts.
"Development of Wooden Ship Construction." (SNAME, 1955)
"On the Development of Ship Forms." (SNAME, 1947)
New England section of SNAME (1942-1950)
Honorary membership in SNAME (1980)
SNAME Discussions (1938-1976)
Steam Whaling in the Western Arctic (1977)
Hart Nautical Collections: 6 files

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SCRAPBOOKS

Book	Description
1	News clippings (1939-1981), including publicity on Bath history, Baker designs, and the Hart Nautical Museum
2	Travel: news clippings, photographs (1972-1973)
3	Travel: news clippings, photographs, including <i>Gjøa</i> photographs (1974-1975)
4	Travel: news clippings, photographs (1976)
5	Travel: Europe (volume I, 1952-1958), including <i>Mayflower II</i>
6	Travel: Europe (volume II, 1952)
7	Travel: Europe (1958, 1972)
8	Designs: <i>Carolina</i> (42) and <i>Adventure</i> (43) in South Carolina (1970)
9	Designs: <i>Aviza</i> shallop (25) and <i>Middlesex/Henry Scudder</i> (52)
10	Designs: <i>Pilot</i> (44), <i>Beaver</i> (49), and <i>Elizabeth II</i> (75)
11	Designs: <i>Dove</i> (57) and <i>Parrot</i> (60)
12	Designs: Baker design book A2, including plans, photographs and clippings for designs I, IV, VI, VII, VIII, IX, 14B, 14C, 14E, 15, 16, 17, 18, 20, 21, 24/29, 25, 26, 27, 29, 31, 32, 34, 35
13	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
14	Designs: scrapbook of WAB's work on the <i>Mayflower II</i> presented to RSB by Plimoth Plantation (June 5, 1982)
15	Designs: <i>Mayflower II</i> special events (1957-1990)
16	Designs: <i>Mayflower II</i> , <i>Carolina</i> , <i>Adventure</i> , <i>Gjøa</i>
17	Designs: <i>Mayflower II</i> , <i>Aviza</i> shallop, <u>Sloops & Shallops</u> (1958-1981)
18	Designs: <i>Mayflower II</i> in England (1957-1959)
19	Designs: <i>Mayflower II</i> , <i>Gjøa</i> (1949-1957)
20	Designs: <i>Mayflower II</i> , <i>Dove</i> (1957)

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MEMORABILIA

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

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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.
- Certificate for honorary membership in the Boston Marine Society (1968)
- 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

Box Description

- | | |
|---|---|
| 7 | Travel: Puerto Rico - Bahamas - Bermuda - shallops |
| 8 | Travel: England and <i>Mayflower II</i> - Greece - Yugoslavia |

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❖ APPENDIX D ❖

- BAKER DESIGN INDEX -

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