

CATARACT BOAT *WEN*
Grand Canyon Boats
Grand Canyon National Park
Grand Canyon Village
Coconino County
Arizona

HAER AZ-74
HAER AZ-74

PHOTOGRAPHS

REDUCED COPIES OF MEASURED DRAWINGS

FIELD RECORDS

HISTORIC AMERICAN ENGINEERING RECORD
National Park Service
U.S. Department of the Interior
1849 C Street NW
Washington, DC 20240

HISTORIC AMERICAN ENGINEERING RECORD

INDEX TO PHOTOGRAPHS

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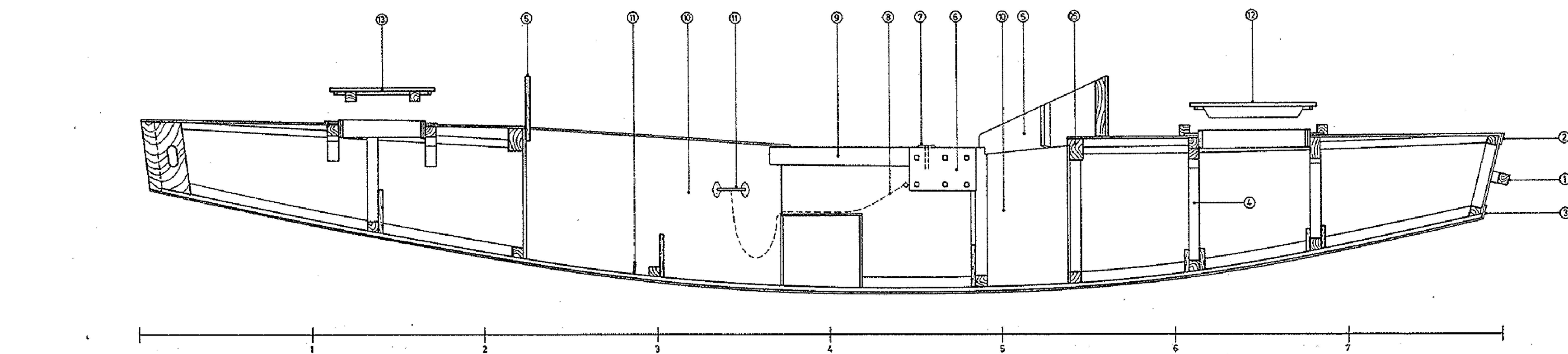
HAER AZ-74

Photos taken while located in park curatorial storage.

INDEX TO BLACK AND WHITE PHOTOGRAPHS

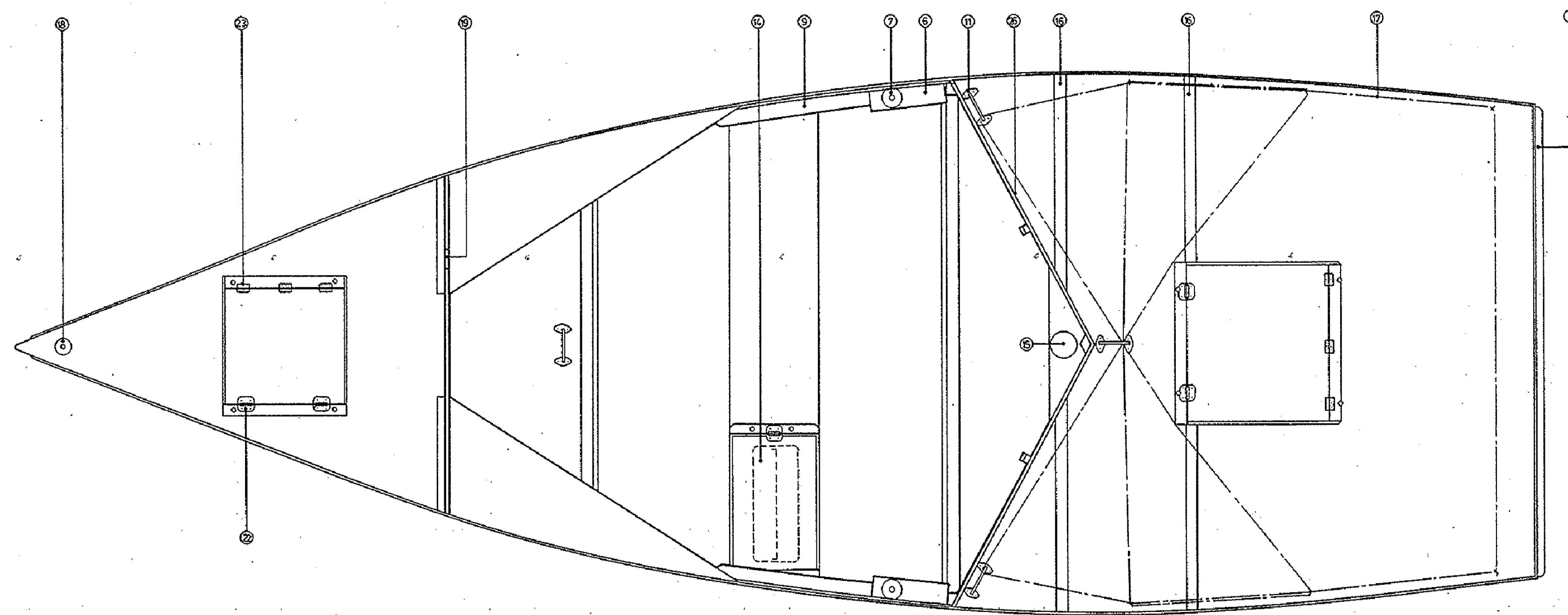
Jet Lowe, photographer, 2008

AZ-74-1	3/4 view of port side from bow to stern.
AZ-74-2	3/4 view of starboard side from stern to bow.
AZ-74-3	Detail of cockpit.

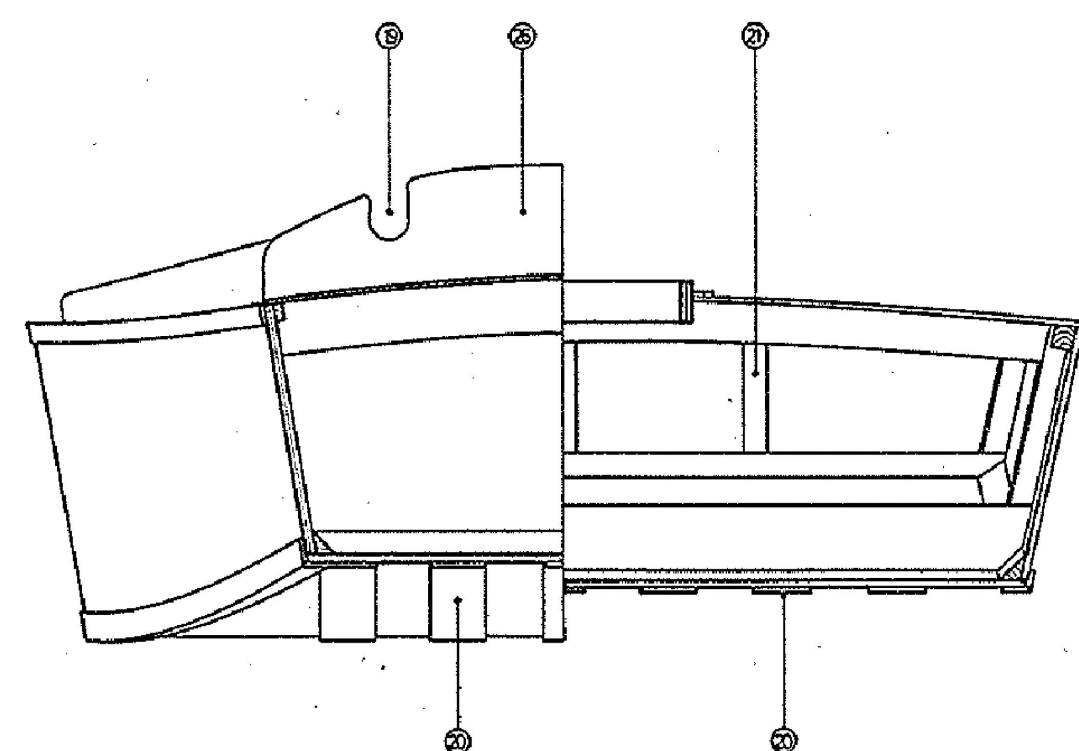


SCANTLINGS
 PLANKING, SIDES - 5/8" PLYWOOD
 PLANKING, BOTTOM - 1/4" PLYWOOD
 DECK - 1/4" PLYWOOD
 FRAMES - 1 1/2" X 1 1/2" OAK
 "SISTER" FRAMES - 1/2" X 6" OAK(?)
 CHINE - FROM 1 1/2" X 1 1/2" OAK
 TRANSOM - 5/8" PLYWOOD
 STEM - OAK
 DECK BEAMS - 1 1/2" X 1 1/2" OAK(?)

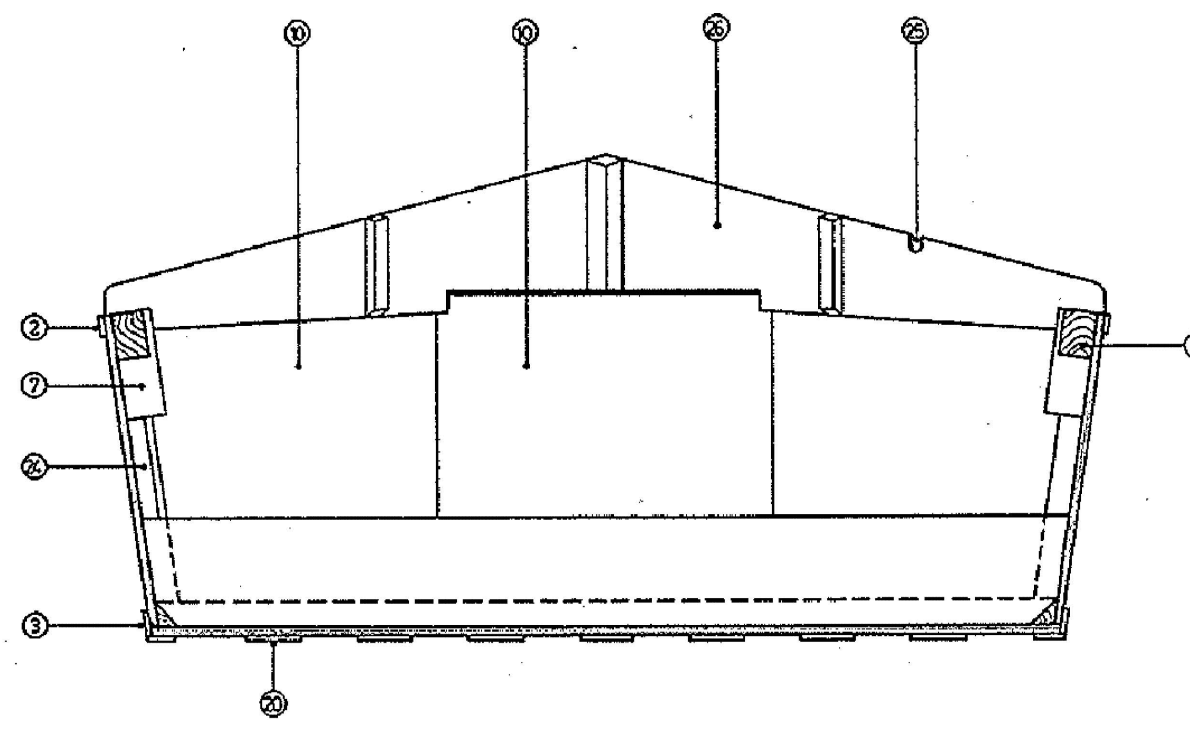
FASTENINGS
 COMBINATION OF GALV. AND BRASS SCREWS
 MISC. NAILS AT VARIOUS LOCATIONS
 OAR LOCK MOUNTING BLOCK - 3/8" BOLTS



KEY
 ① HAND HOLD/BUMPER - 1 1/2" X 1 1/2" OAK
 ② RUBRAIL - 1/4" X 1 1/2" OAK
 ③ CHINE STRIP - 1/4" X 1 3/4" OAK
 ④ POST - 1 1/2" X 1 1/2" OAK
 ⑤ COAMING 1/2" x
 ⑥ OAR LOCK MOUNTING BLOCK - 2 1/2" X 6 1/4" X 9 1/2" OAK
 ⑦ OAR LOCK PAD
 ⑧ OAR TETHER - CHAIN
 ⑨ SHEER CLAMP - 1 3/4" X 2 1/4" OAK
 ⑩ BULKHEAD - PLYWOOD
 ⑪ METAL "SCREEN DOOR HANDLE" - 3 7/8"
 ⑫ AFT HATCH - WATER TIGHT
 ⑬ FORWARD HATCH - WATER TIGHT
 ⑭ MAP LOCKER - WATER TIGHT
 ⑮ WATCH MOUNT
 ⑯ BATTEN - 1/4" X 1 3/8"
 ⑰ 1/2" ROPE HANDHOLD, SECURED WITH EYEBOLTS
 ⑱ FLAG MOUNT (LATER ADDITION)
 ⑲ SPAR OAR SLOT - WITH DOOR SPRING KEEPER
 ⑳ SKIDS - 1/4" X 3 1/2" OAK, LAYOUT VARIES
 ㉑ TRANSOM FRAME - 1 1/2" X 1 1/2"
 ㉒ LATCH - "REFRIGERATOR" HANDLE
 ㉓ HINGE
 ㉔ SLOT FOR SPARE OAR BLADE - WITH 5/8" X 1/4" BATTEN
 ㉕ UNDOCUMENTED/UNKNOWN
 ㉖ COAMING/SLASH GUARD - 5/8" PLYWOOD

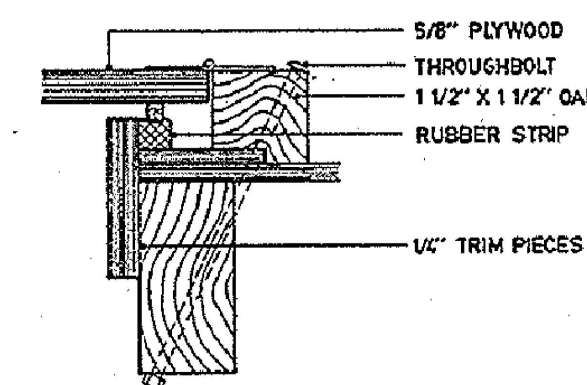


LOOKING AFT - ST. 2

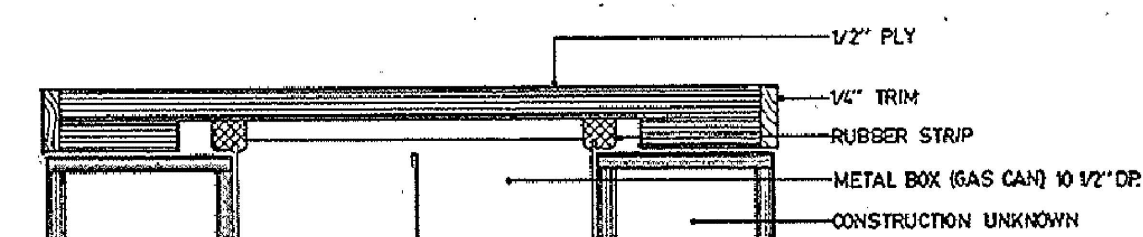


LOOKING AFT - ST. 6

LOOKING AFT - ST. 5

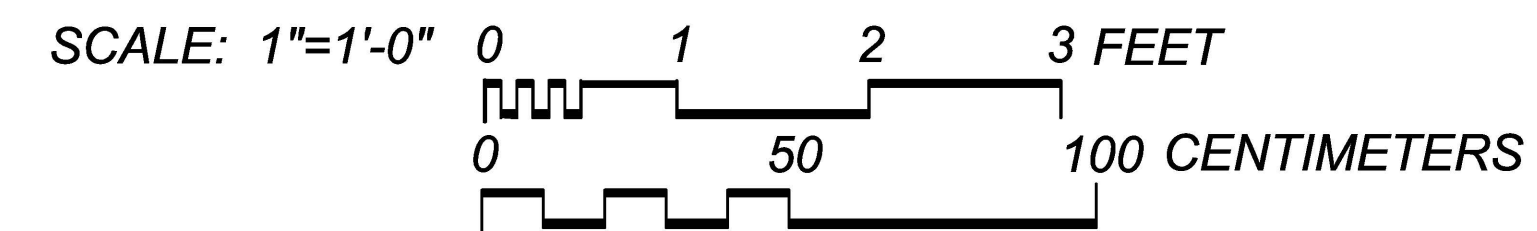


TYPICAL HINGE

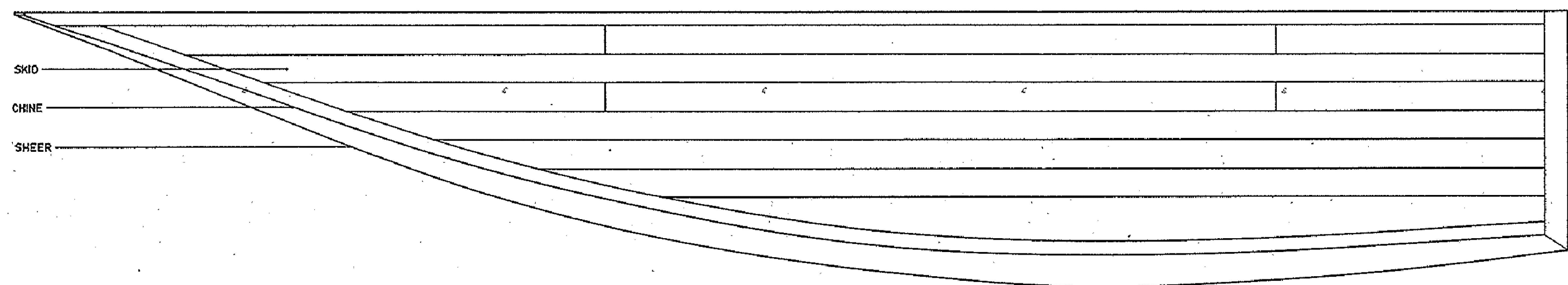
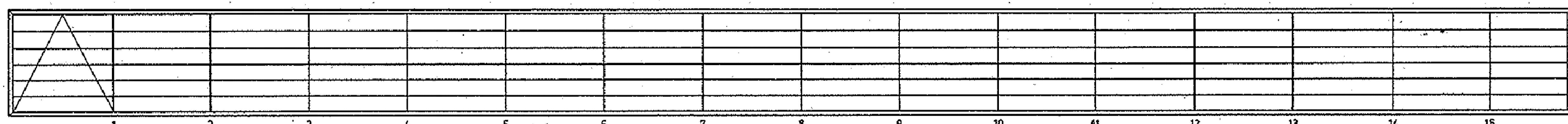
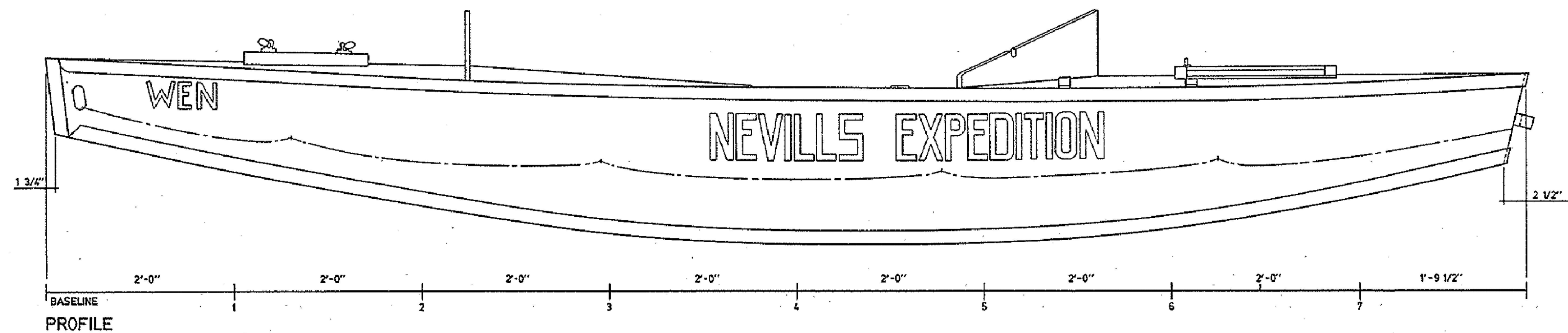


MAP LOCKER

"WEN"
CATARACT BOAT
 BUILT BY NEVILLS AND HARRIS, 1938
 DELINEATED BY TODD BLOCH



Note: These drawings were scanned from original pencil drawings donated by Todd Bloch and rescaled to the HAER format.



HALF BREADTHS PLAN

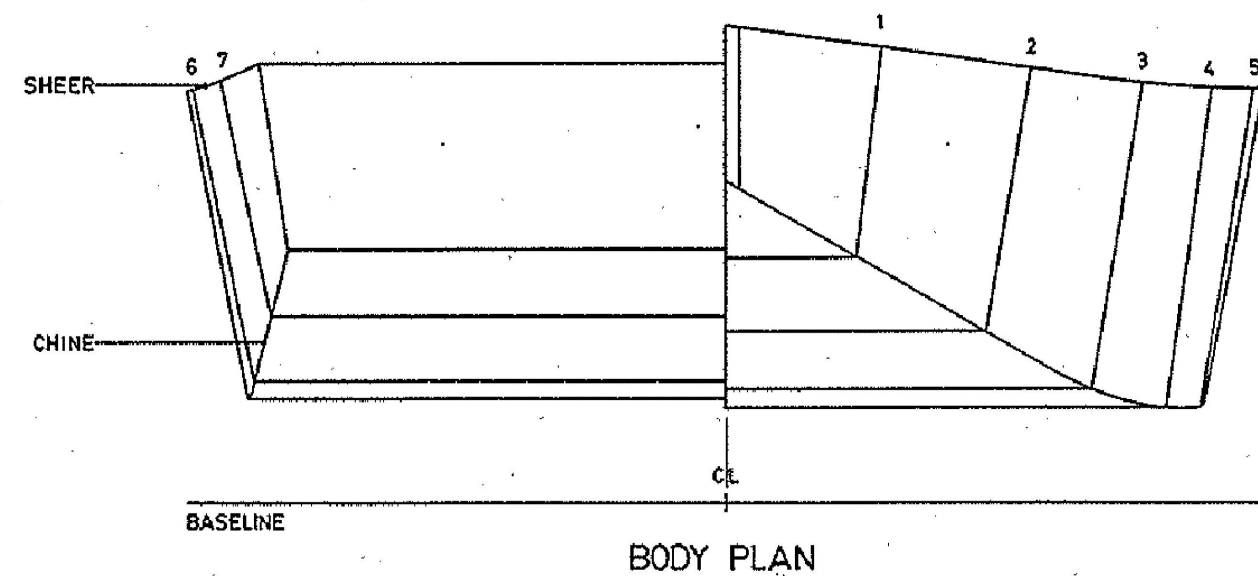


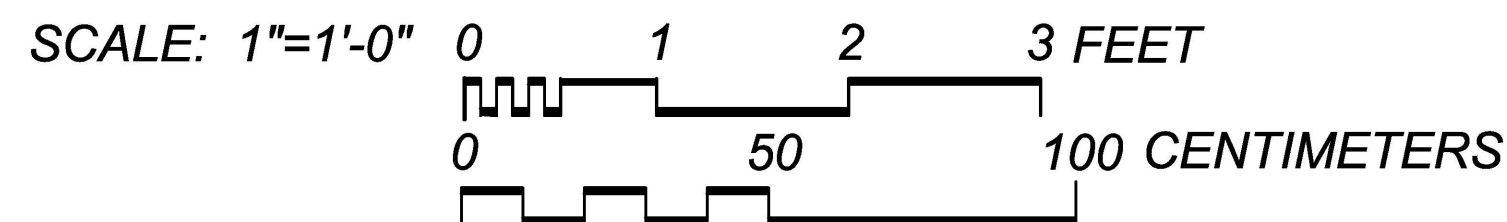
TABLE OF OFFSETS
in Feet - Inches - Eighths to outside of plank

Height	Station	Bow	1	2	3	4	5	6	7	Transom
Plank	2'-0"	2'-4"	2'-4"	2'-4"	2'-2"	2'-2"	2'-2"	2'-2"	2'-2"	2'-2"
Below Deck	1'-7"	1'-5"	0'-10"	0'-7"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"
Waterline	0'-7"	0'-5"	1'-1"	2'-1"	2'-4"	2'-4"	2'-4"	2'-4"	2'-4"	2'-4"
Transom	0'-7"	0'-5"	1'-5"	1'-10"	2'-2"	2'-2"	2'-2"	2'-2"	2'-2"	2'-2"

Note: Bow offsets are at rabbet

Stations are spaced 9'-0" from F.P.
F.P. is face of stern at shear
A.P. is face of transom at shear
Top of stem is 2'-6" above Base, Head is 1'-3" above Base
Transom is straight in Half breadth view
L.O.A. is 15'-9"

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CATARACT BOAT
BUILT BY NEVILLS AND HARRIS, 1938
DELINEATED BY TODD BLOCH



Note: These drawings were scanned from original pencil drawings donated by Todd Bloch and rescaled to the HAER format.

DELINEATED BY: TODD BLOCH, 2004. REFORMATTED BY TODD CROTEAU, 2005

HAER MARITIME
RECORDING PROGRAM
NATIONAL PARK SERVICE
UNITED STATES DEPARTMENT OF THE INTERIOR

GRAND CANYON

CATARACT BOAT "WEN"
GRAND CANYON NATIONAL PARK
COCONINO

SHEET
ARIZONA 2 OF 2

HISTORIC AMERICAN
ENGINEERING RECORD

INDEX NUMBER
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IF REPRODUCED, PLEASE CREDIT THE HISTORIC AMERICAN ENGINEERING RECORD, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF DRAWING