

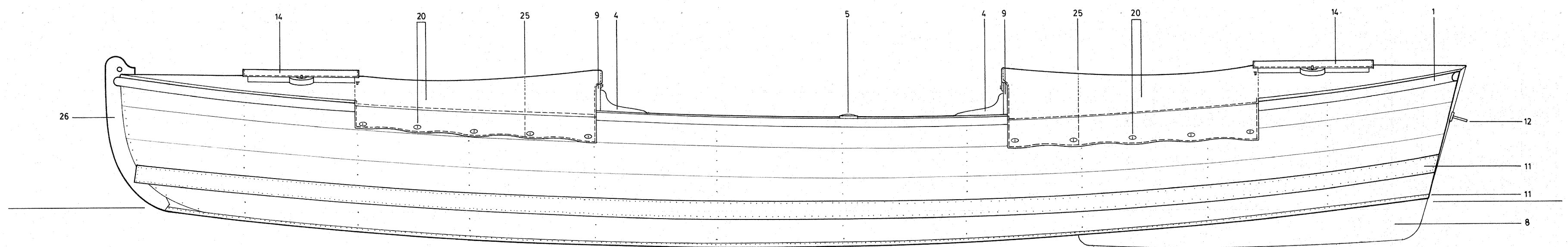
GALLOWAY TYPE BOAT CATARACT BOAT STONE BOAT
Grand Canyon Boats
Grand Canyon National Park
Grand Canyon
Coconino County
Arizona

HAER AZ-72
AZ-72

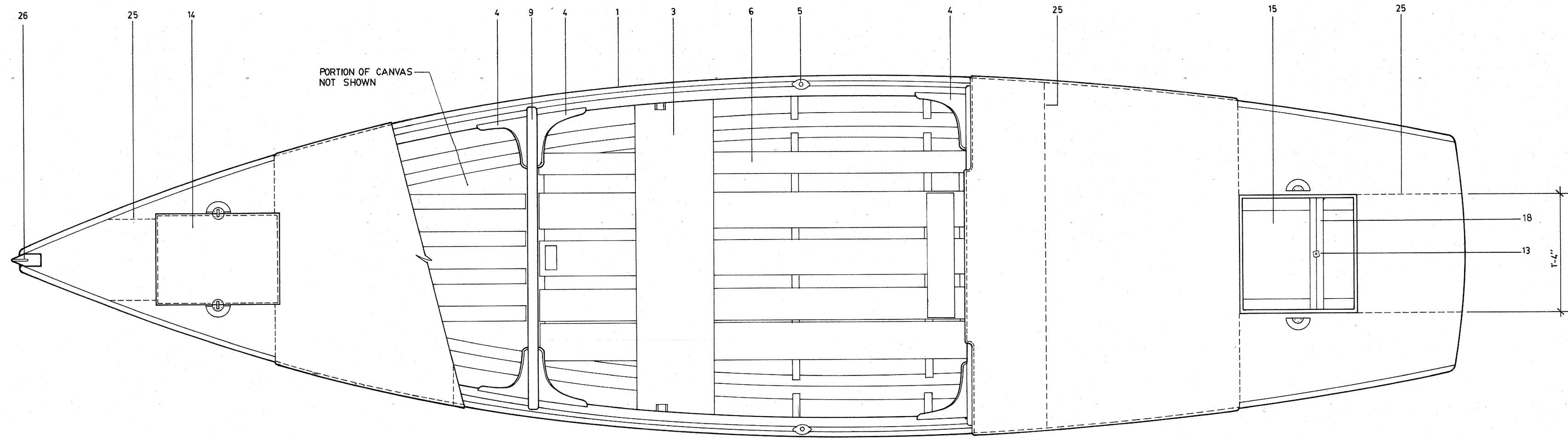
PHOTOGRAPHS

REDUCED COPIES OF MEASURED DRAWINGS

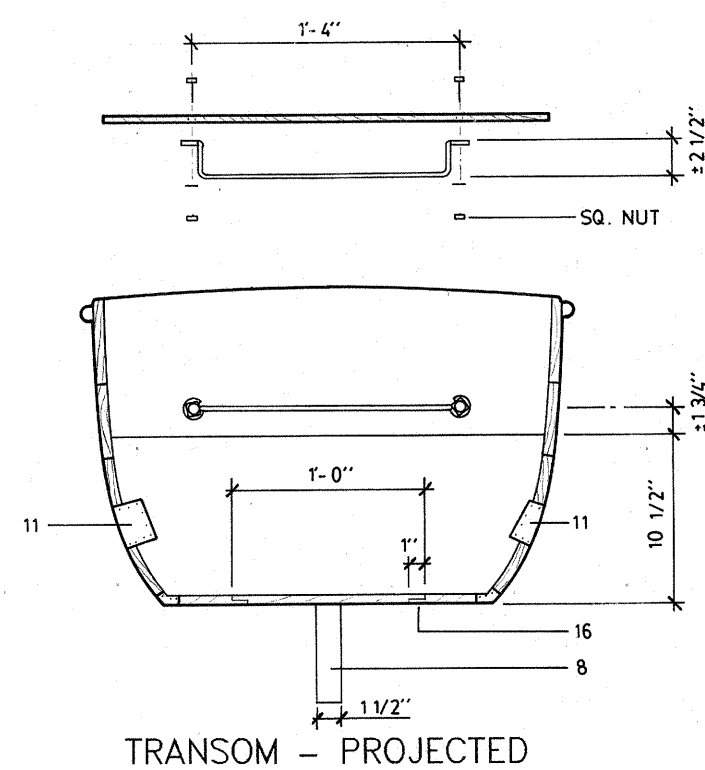
HISTORIC AMERICAN ENGINEERING RECORD
National Park Service
U.S. Department of the Interior
1849 C Street NW
Washington, DC 20240-0001



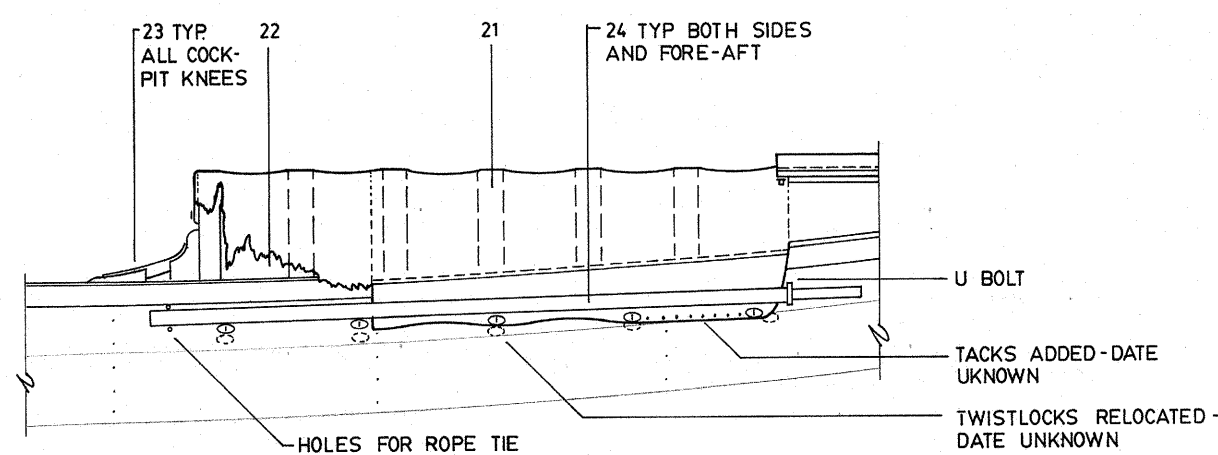
PROFILE - PARTIAL RECONSTRUCTION



DECK PLAN



TRANSOM - PROJECTED



PROFILE - PARTIAL (AS MEASURED)

NOTES

1. HISTORICAL DOCUMENTS WERE USED TO DEVELOP SOME RECONSTRUCTIONS AND NOTES. SUCH ITEMS ARE MARKED WITH AN " * ".
2. THE STONE BOATS WERE TO BE FITTED WITH THREE 8 FOOT WHITE ASH OARS.*
3. THE STONE BOATS WERE FINISHED INSIDE AND OUT WITH THREE COATS OF LEAD PAINT.*

KEY

- 1 RUBRAIL
- 2 RISER
- 3 THWART
- 4 KNEE - ALTERATION NOT SHOWN
- 5 OARLOCK GRIP
- 6 FLOOR BOARD
- 7 SHEER CLAMP
- 8 SKEG, REMOVABLE
- 9 COAMING/BULKHEAD
- 10 BOTTOM SKID/RUNNER
- 11 COPPER STRIP/SHEATHING
- 12 1/2" IRON, FOR CARRYING
- 13 BOLT FOR REMOVABLE SKEG
- 14 HATCH, WITH HATCH COVER
- 15 HATCH, HATCH COVER NOT SHOWN
- 16 BOTTOM PLANKING, LAPPED AND RIVETED
- 17 STERN KNEE, NOT ACCESSIBLE FOR MEASURE
- 18 "SISTER" FLOOR AT BOLTS FOR REMOVABLE SKEG
- 19 AREA INACCESSIBLE, PRESENCE OF KNEE UNKNOWN
- 20 CANVAS COMPARTMENT COVER, TWIST LOCK FASTENERS
- 21 BATTENS INSTALLED TO SUPPORT CANVAS - UNDATED ALTERATION FOR DISPLAY PURPOSES
- 22 AREA OF DETERIORATED CANVAS
- 23 UNDATED ALTERATION - PORTION OF KNEE REMOVED TO ALLOW INSERTION OF POLE TO SUPPORT CANVAS SPLASH GUARD. GALV. METAL STRAP INSTALLED TO COMPENSATE. CANVAS OF SPLASH GUARD WAS TACKED TO BOAT.
- 24 UNDATED ALTERATION - BATTEN TO SECURE CANVAS COMPARTMENT COVER
- 25 CANVAS SEAM
- 26 1/4" BRASS HALF ROUND

SCANTLINGS

- PLANKING, SIDES - 5/8" WHITE PINE
 PLANKING, BOTTOM - 11/16" PINE, FULL LENGTH
 DECK - WHITE PINE
 FRAMES - 7/8" X 3/4" ELM* AT ±18" OC
 FLOORS - 7/8" X 3/4" OAK
 CHINE - FROM 2" X 1 1/2" OAK
 TRANSOM - 1" WHITE PINE, OAK REINFORCED*
 STEM - 2 1/2" OAK
 DECK BEAMS - 1 1/4" X 3/4" OAK
 RUBRAIL - 1 1/4" X 3/4" OAK
 CLAMP - 1 3/8" X 1 1/4"
 RISER - 2 1/4" X 1/2"
 THWART - 3/4" WHITE PINE
 BULKHEADS - ± 1/4" WHITE PINE
 FLOOR BOARDS - 5/8"

FASTENINGS

- PLANKING, SIDES - COPPER NAILS/RIVETS
 PLANKING, BOTTOM - COPPER NAILS/RIVETS
 BRASS SCREWS*
 GALVANIZED IRON BOLTS*

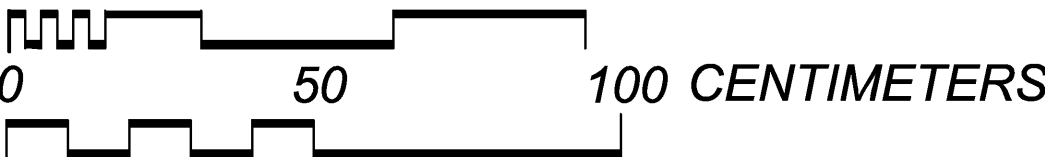
THE STONE BOAT GALLOWAY TYPE CATARACT BOAT

BUILT BY POULIOT BOAT CO., c.1908

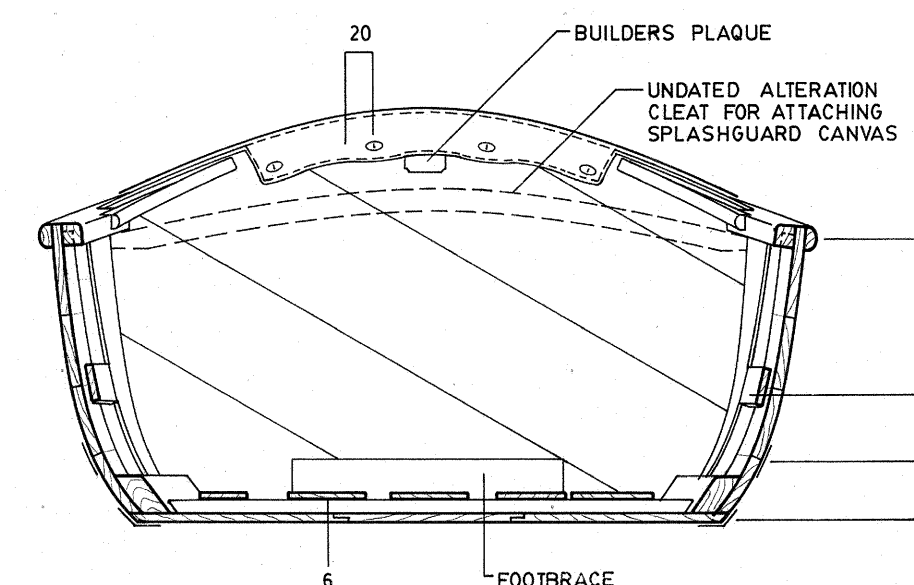
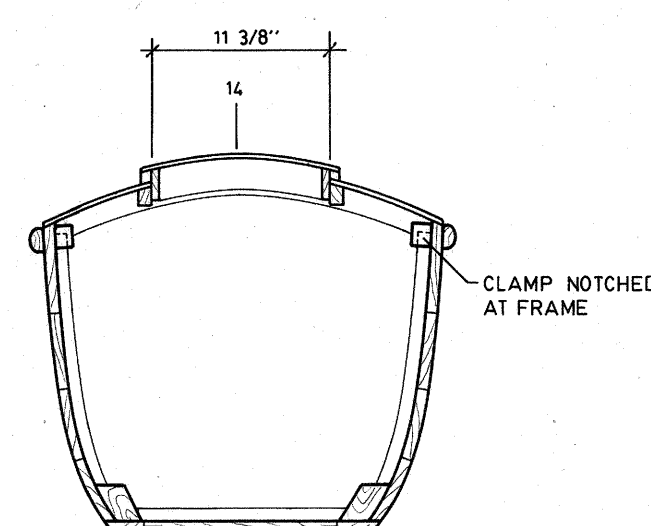
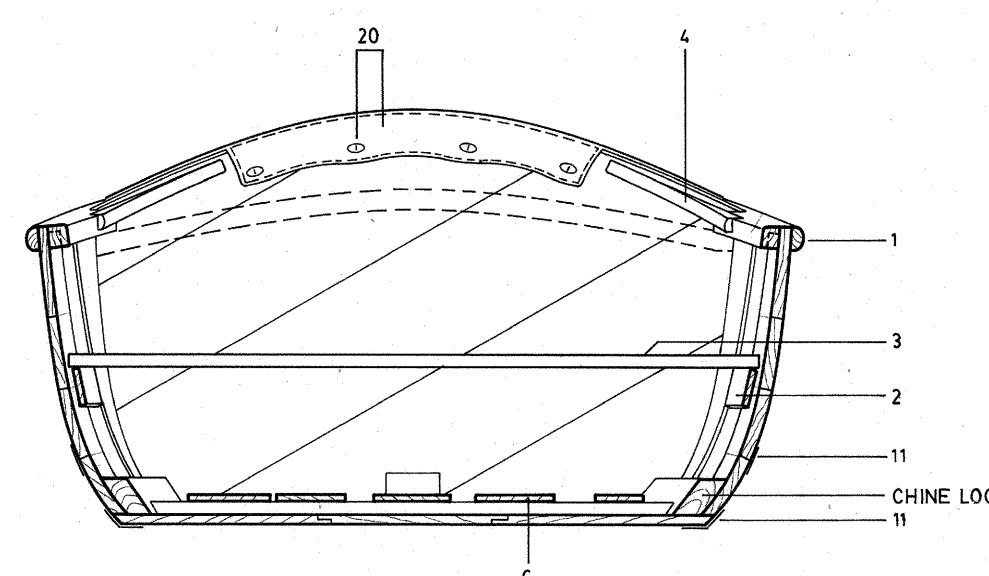
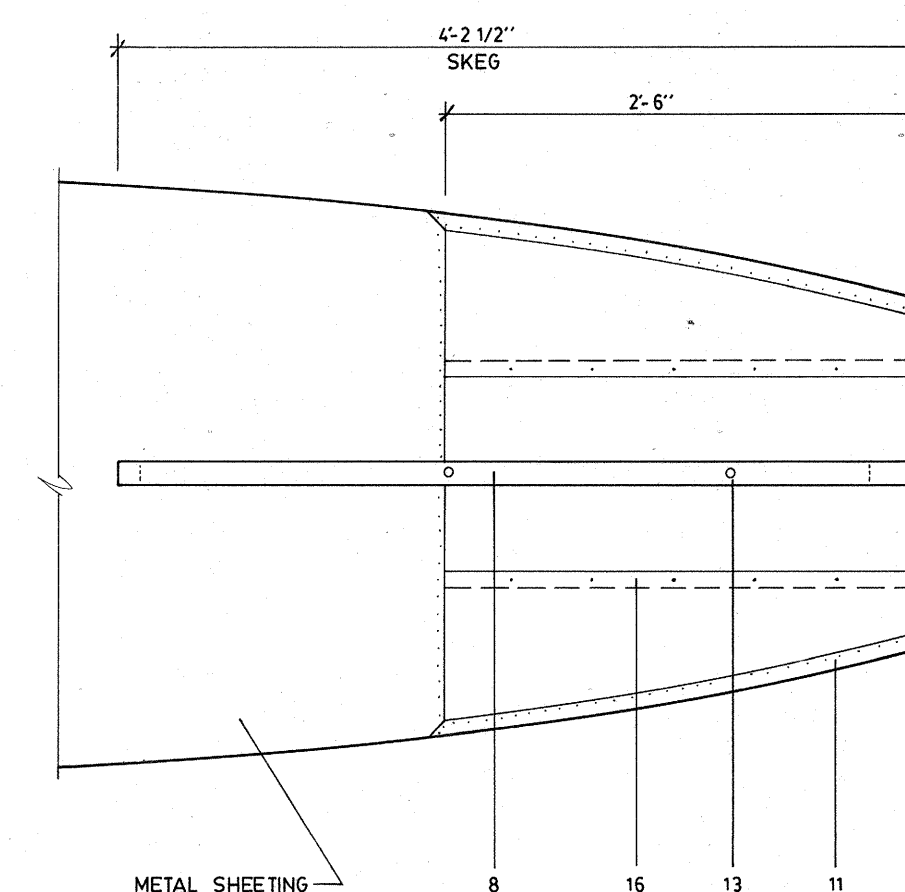
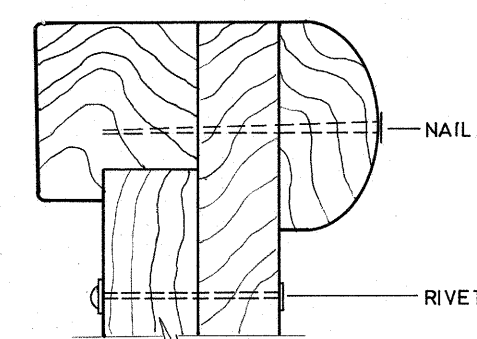
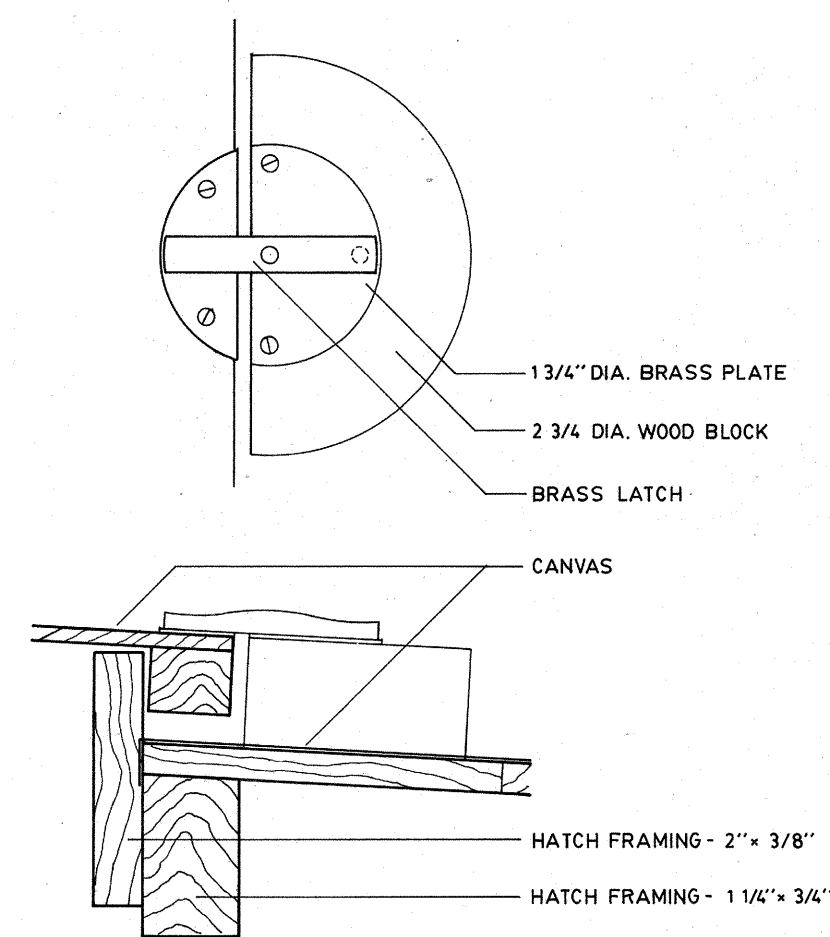
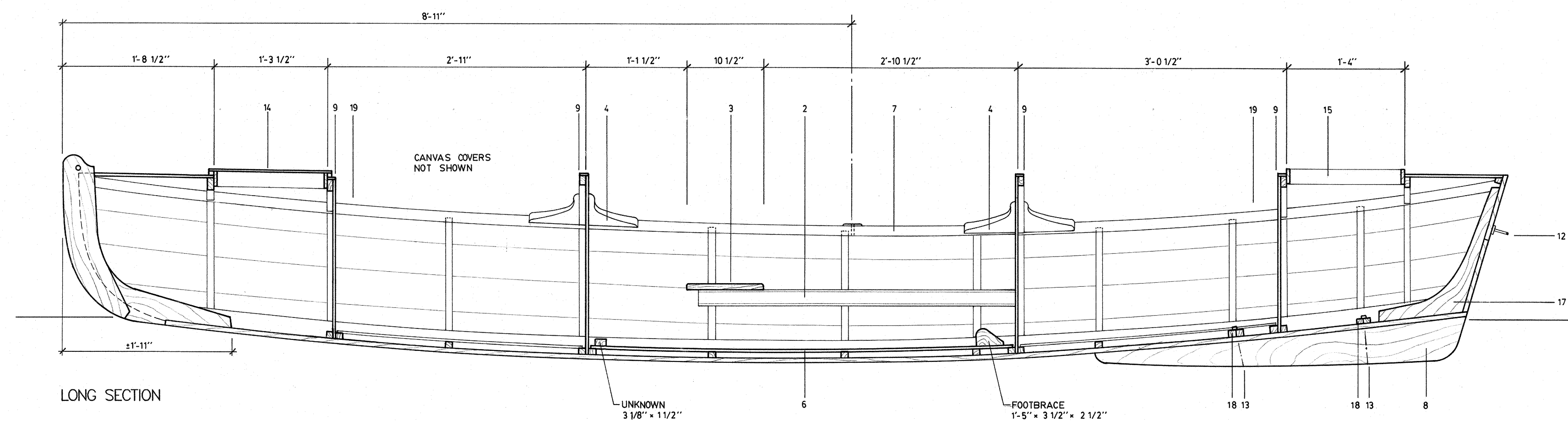
DETROIT, MI

NAME OF BOAT UNKNOWN
 DRAWN AND DELINEATED BY TODD BLOCH

SCALE: 1"=1'-0" 0 1 2 3 FEET



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



THE STONE BOAT
GALLOWAY TYPE CATARACT BOAT

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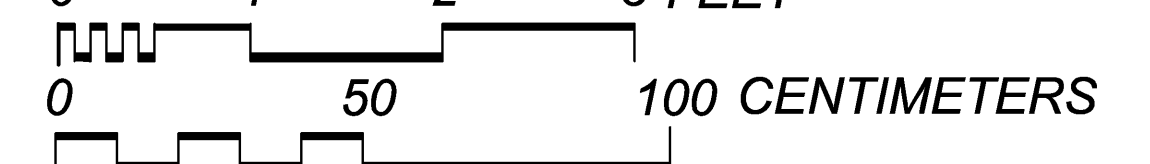
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DELINEATED BY: TODD BLOCH, 2004 REFORMATTED BY TODD CROTEAU, 2005

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

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GALLON
GRAND CANYON

YANON
COCONINO
GRAND CANYON NATIONAL PARK
"THE STONE BOAT" - 1908
GALLOWAY TYPE CATARACT BOAT

TRACT BOAT "THE GRAND CANYON NATIONAL PARK COCONINO

T BOAT
ANYON NATIONAL
COCONINO

ARIZONA	SHEET
2 OF 3	

SHEET
2 OF 3

**HISTORIC AMERICAN
ENGINEERING RECORD**
AZ-72

**HISTORIC AMERICAN
ENGINEERING RECORD**
AZ-72

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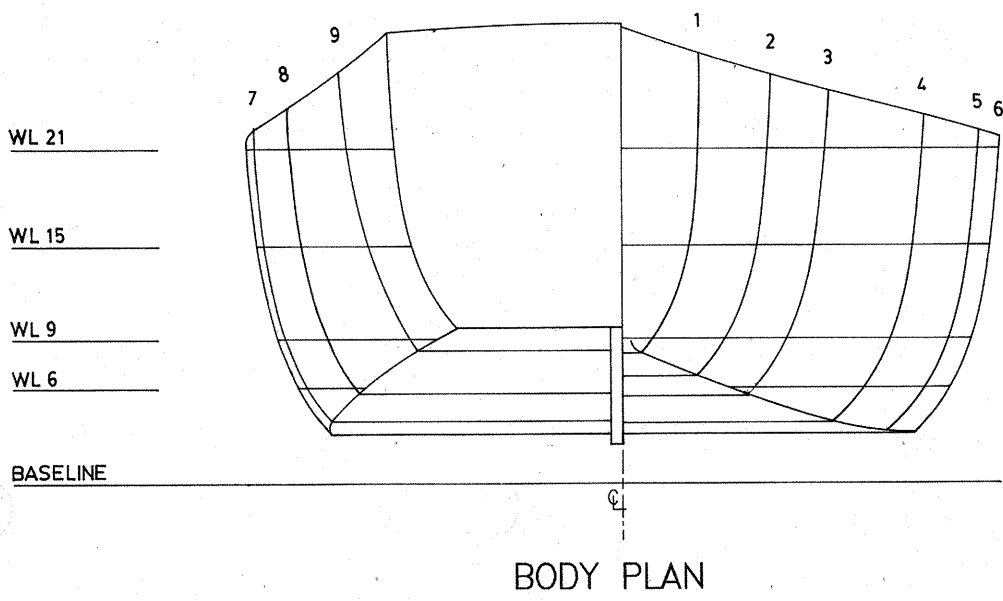
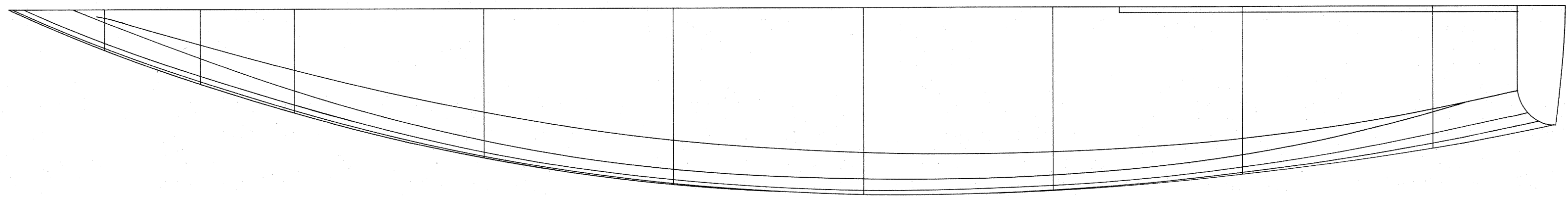
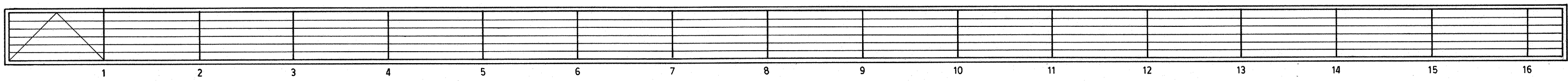
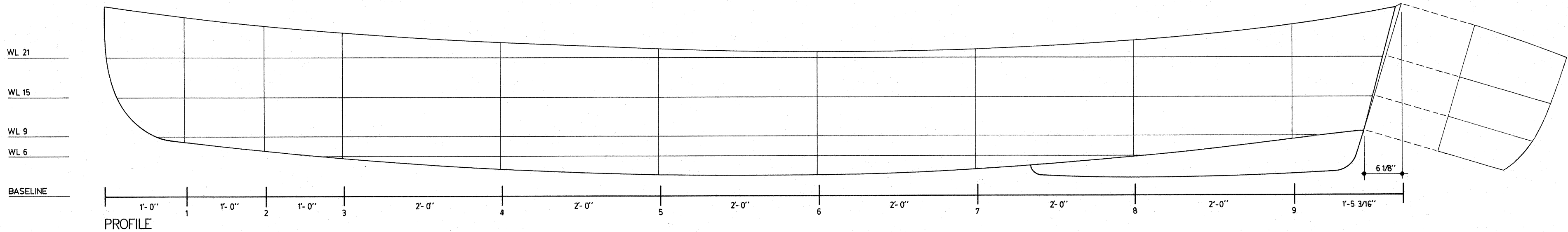
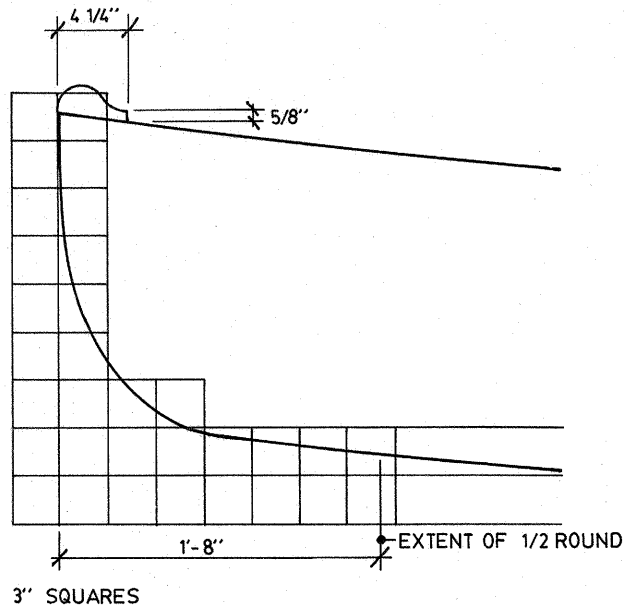


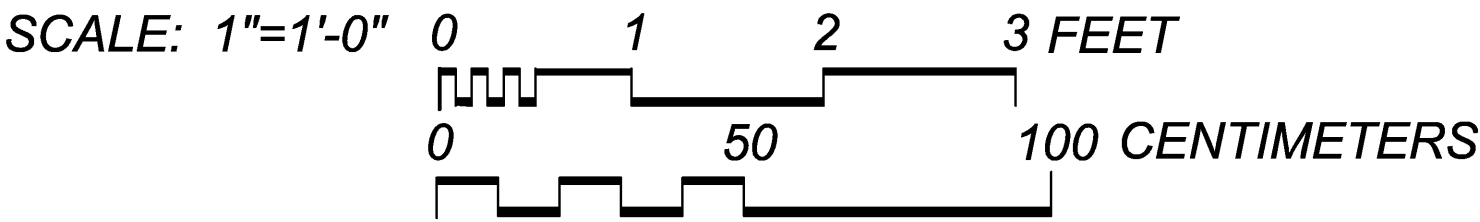
TABLE OF OFFSETS												
Stations	Bow	1	2	3	4	5	6	7	8	9	Transom	
Height Above Base	Sheet	2-4-5	2-3-0	2-1-6	2-0-5	1-11-1	1-10-2	1-9-6	1-10-1	1-11-3	2-1-6	2-4-2
Halfbreadths from Centerline	Chine	-	0-8-1	0-6-6	0-5-5	0-5-7	0-3-2	0-3-2	0-3-7+	0-5-6	0-5-8	0-8-8+
	Sheet	-	0-4-7	0-3-3	1-0-7	1-0-7	1-10-2	1-11-5	1-11-1	1-9-1	1-5-6	1-2-6
	WL 21	-	0-4-5	0-8-0	1-0-5	1-0-8	1-10-1	1-11-4	1-11-0	1-8-7	1-5-2	1-2-3
	WL 15	-	0-4-1	0-8-3	0-11-7	1-0-1	1-0-4	1-10-7	1-10-4	1-8-1	1-4-0	1-1-2
	WL 9	-	0-1-6	0-6-3	0-10-2	1-4-5	1-0-2	1-0-5	1-0-2	1-0-5	1-1-3	-
Chine	WL 6	-	-	-	0-8-1	1-3-0+	1-0-7	1-0-3	1-7-7	1-4-0+	-	-
	Chine	-	0-1-1	0-4-4	0-7-5	1-1-0	1-4-3	1-0-2	1-0-2	1-4-5	1-0-7	0-10-3

Offsets are in Feet-Inches-Eighths to outside of plank
Stations are spaced from F.P. as noted
F.P. is face of stem at Sheer
A.P. is face of transom at Sheer at Center Line
Top of stem is 2'-7-0 above base
L.O.A. is 16'-5-2

- NOTES
1. THE STONE BOAT WAS MEASURED IN HER CRADLE.
 2. THERE WAS NO INDICATION OF WATERLINE ON THE BOAT. THE SHOWN WATERLINE WAS ESTABLISHED BASED ON HISTORICAL PHOTOS.
 3. DUE TO THE CONDITION OF THE CANVAS COMPARTMENT COVERS, THE MEASUREMENT TEAM WAS NOT ABLE TO ACCESS THESE COMPARTMENTS.



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HISTORIC AMERICAN ENGINEERING RECORD

INDEX TO PHOTOGRAPHS

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Photos were taken while boats were located in park curatorial storage.

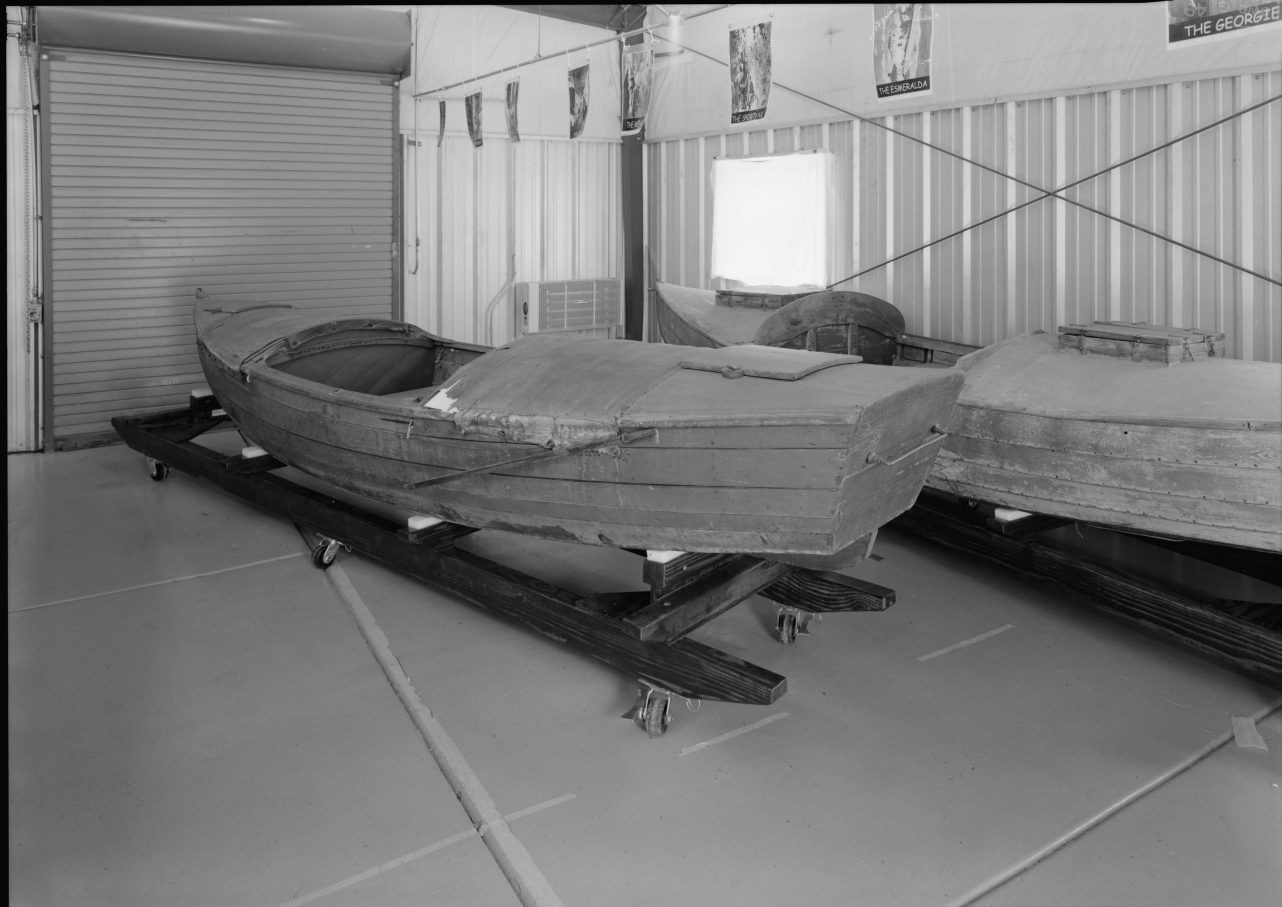
INDEX TO BLACK AND WHITE PHOTOGRAPHS

Jet Lowe, photographer, 2008

AZ-72-1	3/4 view of starboard side from bow to stern.
AZ-72-2	3/4 view of port side from stern to bow.
AZ-72-3	Detail of cockpit.



MS. A. 1. 12. 1



37 8 1911
THE GEORGE

THE EMERALDA

THE JOSTON

216. 42. 71. - 2



HAGR AZ-72.3