

D. N. HYLAN & ASSOCIATES, INC.

BOATBUILDERS

COQUINA STUDY PLANS

LOA - 16' 8"
BEAM - 61"
DRAFT, 8" board up, 36" board down
WEIGHT - with rig, 450 lb
HULL TYPE - round bottom lapstrake
CONSTRUCTION - glued lapstrake plywood or traditional cedar over oak
SUITABLE FOR - Somewhat protected waters
TRAILERABLE - Yes
SKILL REQUIRED - Skilled amateur
LOFTING REQUIRED - No

PLANS -

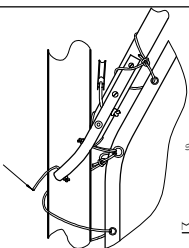
PLANS SHEETS - 11
PLANS DETAIL - Very detailed
PLANS COST - \$200.00 plus \$10.00 shipping in US
ALSO AVAILABLE: Photo CD (\$50.00 plus \$5.00 S & H) and Study Plans
(\$10.00 plus \$2.00 S & H)
OTHER REFERENCES - Herreshoff of Bristol, Bray & Pinheiro, pp. 50, 51,
126, 146.
"Getting to Know COQUINA" by Maynard Bray, WoodenBoat Magazine, No. 187,
p. 76.

Under license from the MIT's Hart Nautical Collections, Doug Hylan and Maynard Bray have collaborated to produce a highly detailed builder's package for both amateur and professional builders, as well as students of Herreshoff's work. Nathanael Herreshoff designed Coquina for his own use in the winter of 1889, and used her for many years, perhaps longer than any other of his personal yachts. Herreshoff wrote in some detail of Coquina in his later life: "I sailed quite often, both summer and winter." Surely such a boat, used so much and remembered so fondly by a man of Herreshoff's means and experience, must have applications for today's sailors.

PLANS - are fully detailed, and consist of 11 sheets including Herreshoff's original construction drawing.

Other sheets include sail plan, lines plan, original construction, glued lapstrake plywood construction, spars & rigging plan, building jig, and four sheets of full sized patterns and plank layouts.

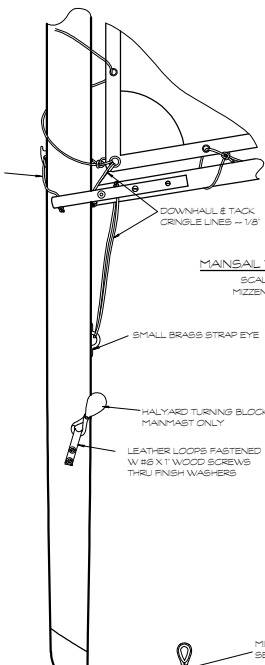
PARREL LINES SHOULD BE SLACK ENOUGH TO ALLOW SAIL TO GO UP
AND BLINDLED SAIL TO SING UP AGAINST HAST FOR STOWING



SAIL LACING, PARREL & THROAT
CRINGLE LINES -- 1/8"

MAINSAIL THROAT DETAIL

SCALE 3" = 1'
MIZZEN SIMILAR EXCEPT FOR
SINGLE PART THROAT HALYARD



DOWNHAUL & TACK
CRINGLE LINES -- 1/8"

MAINSAIL TACK DETAIL

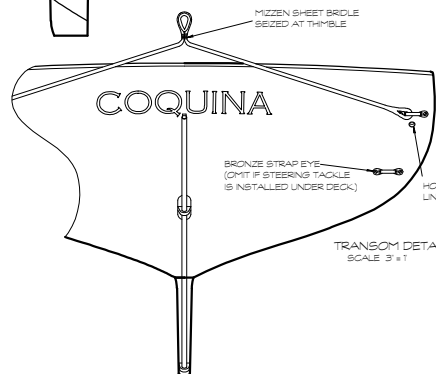
SCALE 3" = 1'
MIZZEN SIMILAR

SMALL BRASS STRAP EYE

HALYARD TURNING BLOCKS
MAINMAST ONLY

LEATHER LOOPS FASTENED
W 8S X 1" WOOD SCREWS
THRU FINISH WASHERS

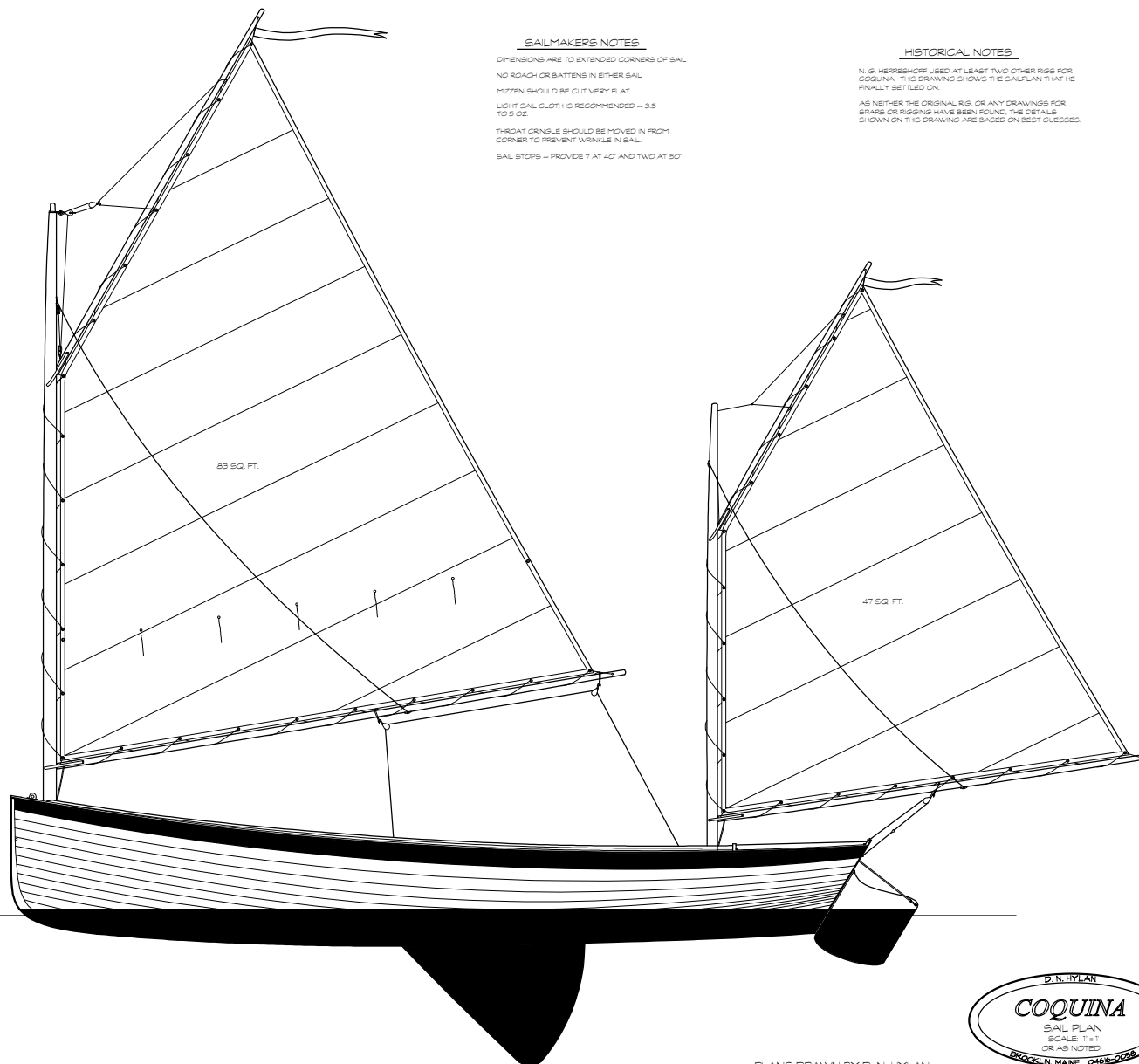
MIZZEN SHEET BOULE
SEIZED AT THIMBLE



BRONZE STRAP EYE
(OMIT IF STEERING TACKLE
IS INSTALLED UNDER DECK)

HOLE TO LEAD STEERING
LINE THROUGH TRANSOM

TRANSOM DETAIL
SCALE 3" = 1'



SAILMAKERS NOTES

DIMENSIONS ARE TO EXTENDED CORNERS OF SAIL

NO ROACH OR BATTENS IN EITHER SAIL

MIZZEN SHOULD BE CUT VERY FLAT

LIGHT SAIL CLOTH IS RECOMMENDED -- 3.5
TO 5 OZ.

THROAT CRINGLE SHOULD BE MOVED IN FROM
CORNER TO PREVENT WRINKLE IN SAIL

SAIL STOPS -- PROVIDE 7 AT 40' AND TWO AT 50'

HISTORICAL NOTES

N. S. HERRESHOFF USED AT LEAST TWO OTHER RIGS FOR
COQUINA. THIS DRAWING SHOWS THE SAILPLAN THAT HE
FINALLY SETTLED ON.

AS NEITHER THE ORIGINAL RIG, OR ANY DRAWINGS FOR
SPARS OR RIGGING HAVE BEEN FOUND, THE DETAILS
SHOWN ON THIS DRAWING ARE BASED ON BEST GUESSES.

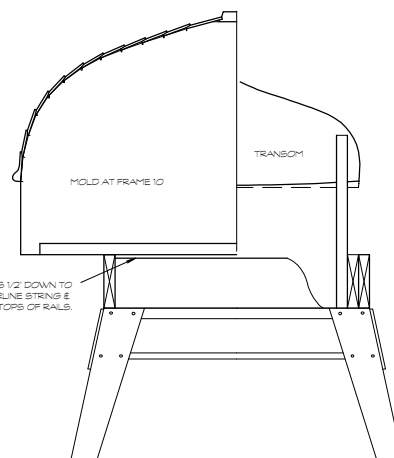
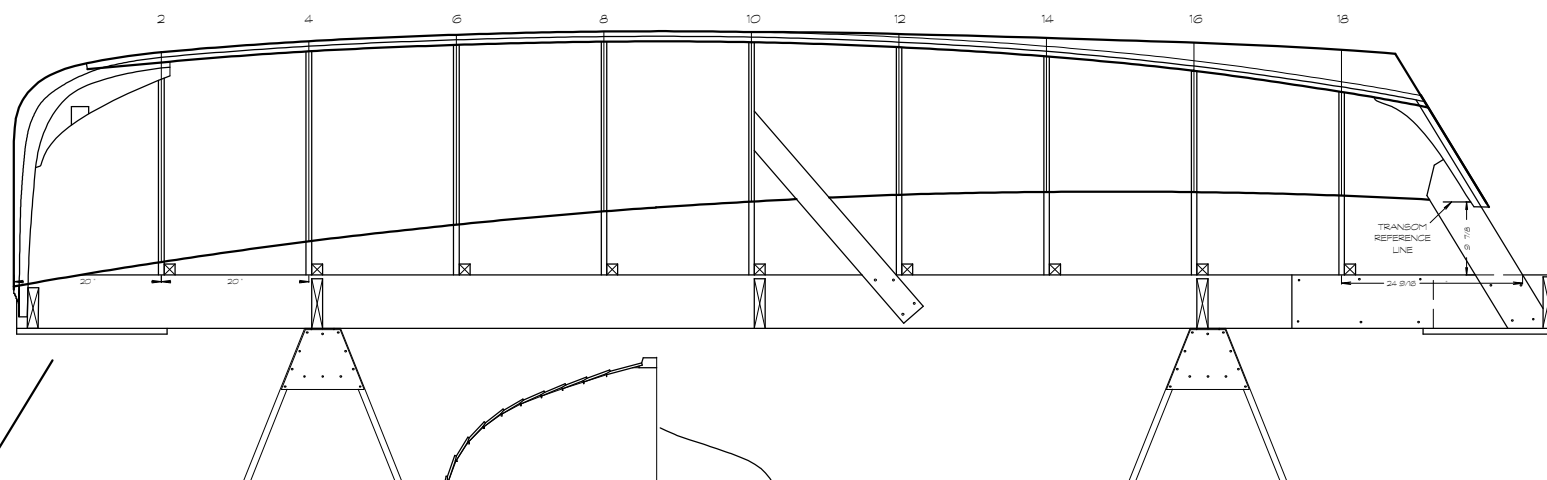
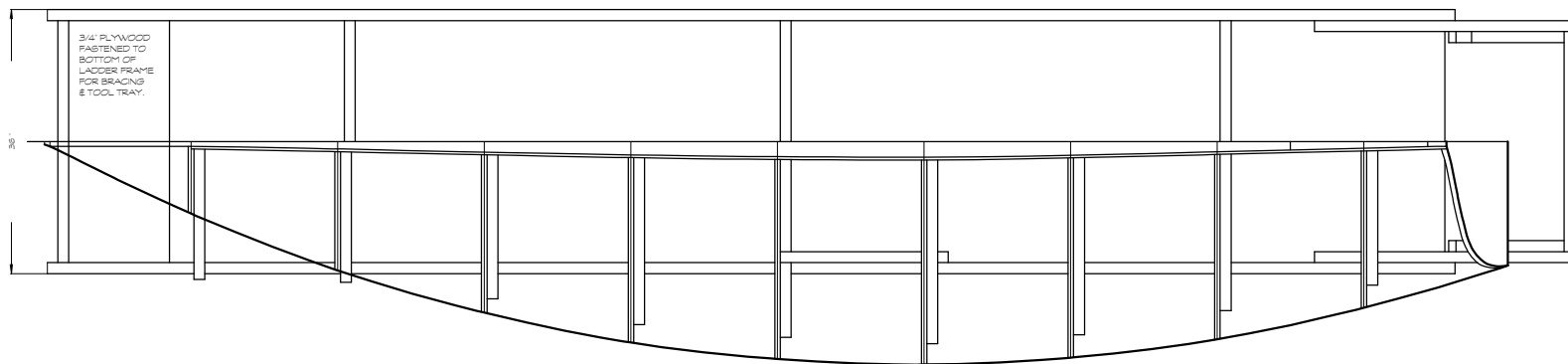


PLANS DRAWN BY D. N. HAYAN
RESEARCH BY MAYNARD BRAY

4/23/2005

SHEET 2 OF 11

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LEAVE TOPS OF LADDER RUNGS 1/2" DOWN TO
ALLOW ROOM FOR CENTERLINE STRING &
PLANING TOPS OF RAILS.

NOTES ON LADDER FRAME & SETUP

BUILD LADDER FRAME FROM DRY 2 X 8 X 18 STOCK.
ASSEMBLE FRAME SQUARE BY MEASURING DIAGONALS,
AND ATTACH PLYWOOD END BRACES TO HOLD SQUARE.

POST FRAME OFF FLOOR TO CONVENIENT WORKING HEIGHT.
THEN SHIM AND PLANE TOP OF RAILS TO BE STRAIGHT AND
LEVEL ACROSS. FASTEN SECURELY TO PREVENT MOVEMENT
DURING SETUP AND CONSTRUCTION.

ATTACH A CENTERLINE STRING TO LADDER FRAME, AND
MARK STATIONS ON TOP OF RAILS, MAKING SURE THEY
ARE SQUARE TO STRING.

MOLDS AND FRAMES ARE CENTERED ON THE FRAME
STATIONS AND THE SAME HOLES USED FOR TEMPORARY
PLANK FASTENINGS WILL BE USED FOR FRAMES, WHERE
APPLICABLE.

CUT SLOT FOR CENTERBOARD AFTER HULL IS PLANKED,
BUT BEFORE IT IS TURNED OVER.

FRAMES, FLOORS AND CENTERBOARD TRUNK ARE INSTALLED
AFTER THE BOAT IS PLANKED AND TURNED UPRIGHT. FIT
AS MANY FLOORS AND FRAMES AS POSSIBLE BEFORE
REMOVING MOLDS.

USE THESE LINES TO MAKE A TEMPLATE FOR LOCATING POSITION
AND ANGLE OF TRANSOM.
PRICK THROUGH DRAWING WITH SHARP AWL ONTO PLYWOOD
PATTERN. CUT OUT AND TRIM END TO FRAME STATION 18.

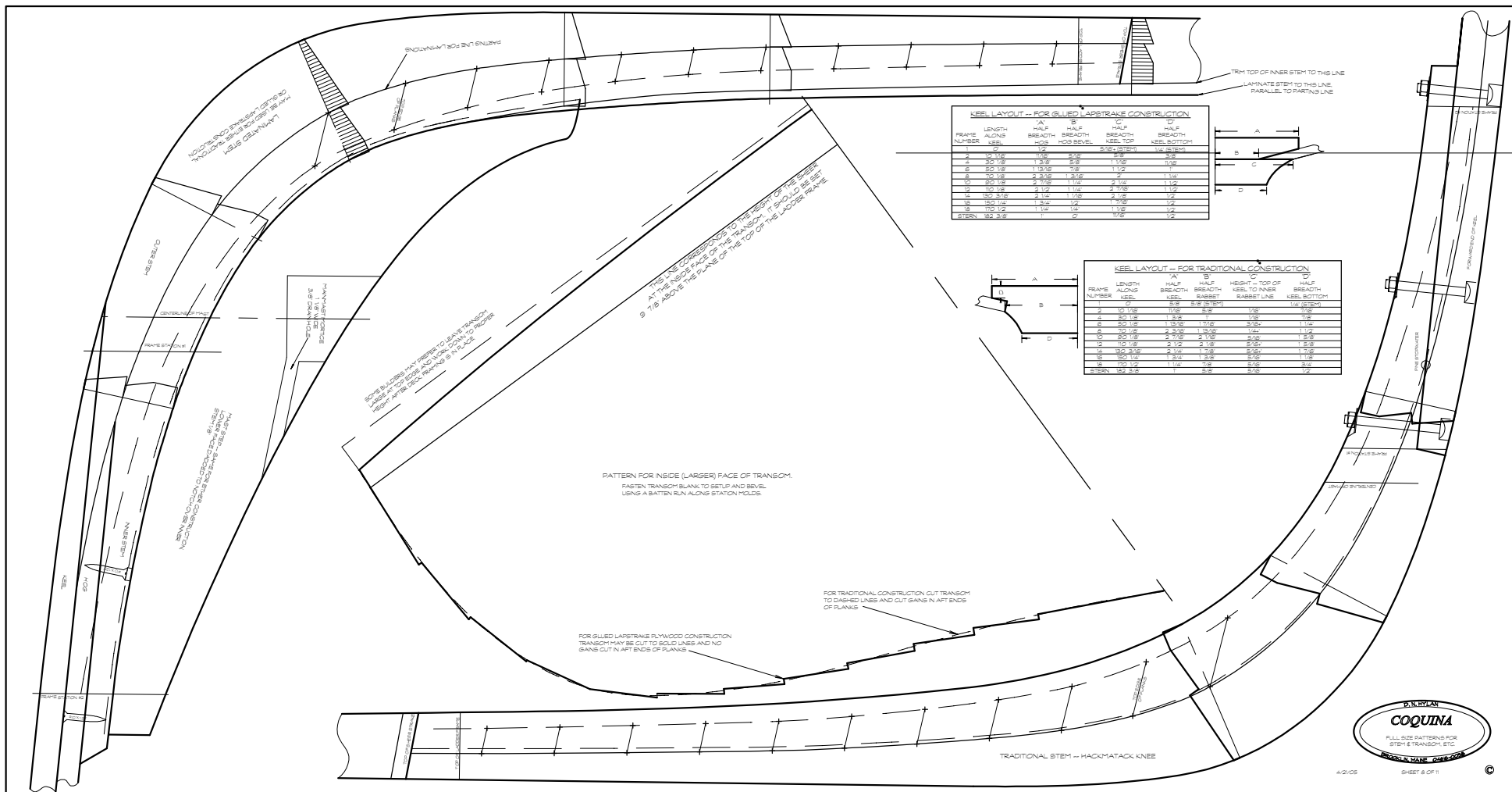
SET THIS EDGE ON TOP OF LADDER FRAME WITH FORWARD END ON FRAME STATION 18.

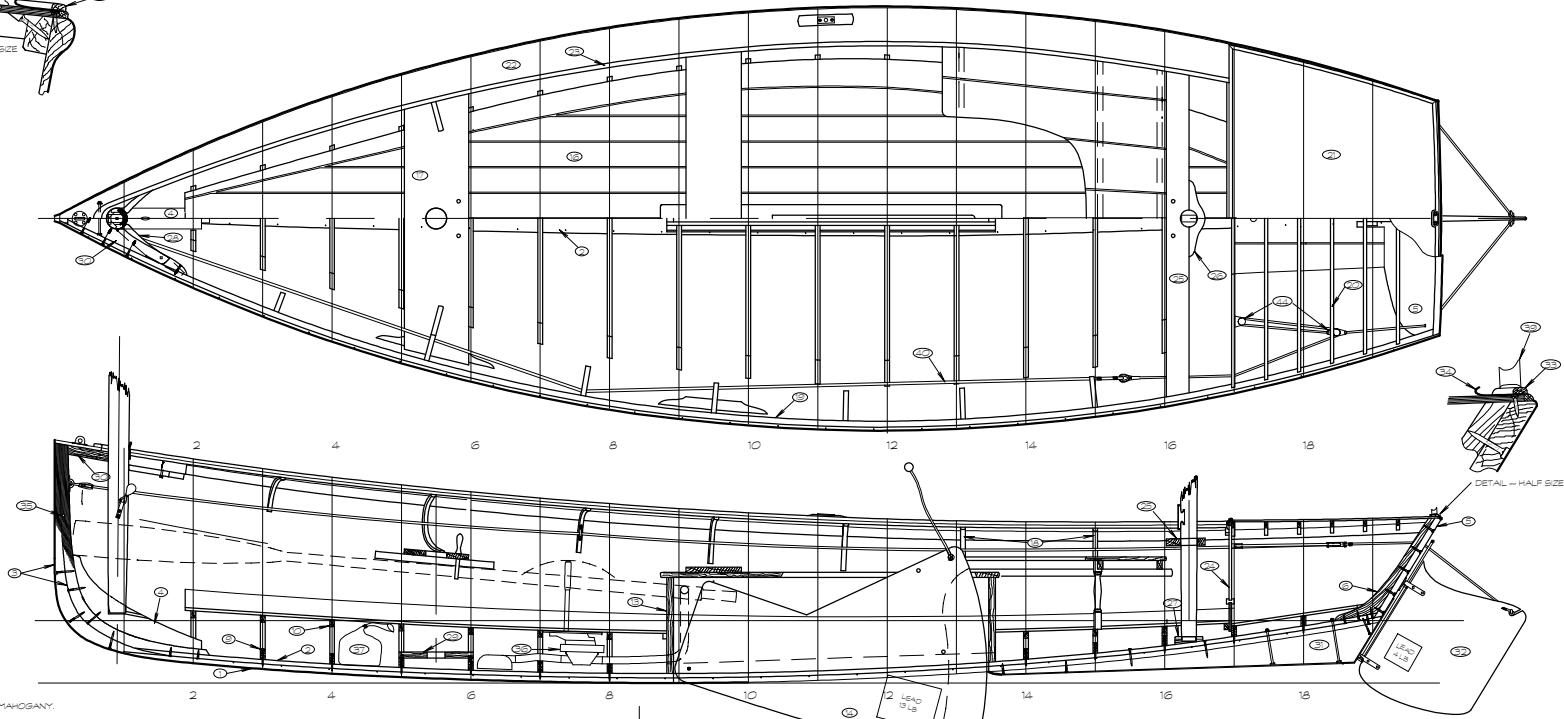
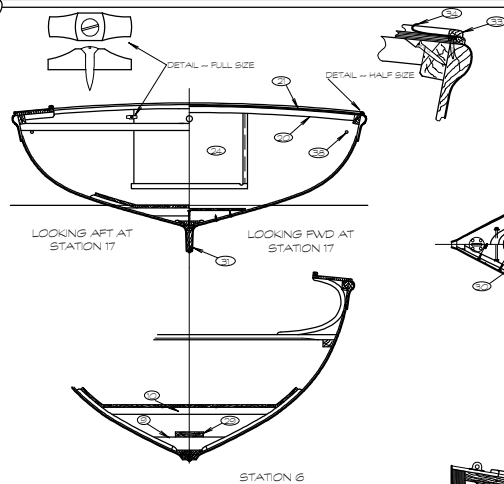
FRAME
STATION
18



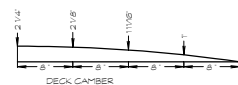
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SHEET 7 OF 11

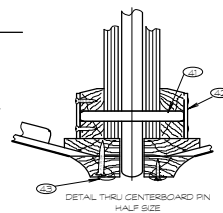




- ① KEEL -- MAHOGANY OR DOUGLAS FIR, S/OED 3/4".
- ② HOG -- MAHOGANY OR D. FIR, S. 5/8".
- ③ STEMS -- LAMINATED MAHOGANY OR D. FIR, S. 1 1/4".
- ④ MAIN MAST STEP -- MAHOGANY OR D. FIR, S. 3".
- ⑤ TRANSOM -- MAHOGANY, S. 7/8".
- ⑥ STERN KNEE -- MAHOGANY OR LOCUST, S. 1 1/4".
- ⑦ PLANKING -- MAHOGANY MARINE PLYWOOD, 1/4". SHEERSTRAKES, MOLDED MAHOGANY.
- ⑧ FRAMES -- MAHOGANY OR LOCUST, LAMINATED OR STEAM BENT, S. 1 1/8", M. 1/2".
- ⑨ FLOORS -- MAHOGANY OR D. FIR, S. 1 1/8", FITTED ON TOP OF FRAMES.
- ⑩ SOLE BEAMS -- D. FIR OR LOCUST, S. 1 1/8", M. 1, POSTED NEAR MIDDLE WHERE NECESSARY.
- ⑪ CENTERBOARD TRUNK SIDES -- 1/2" MARINE PLYWOOD.
- ⑫ CENTERBOARD BEDLOGS -- MAHOGANY OR D. FIR, S. 7/8", M. 1 3/4" IN MIDDLE.
- ⑬ CENTERBOARD HEAD LEDGES -- MAHOGANY OR D. FIR, 1" SQ.
- ⑭ CENTERBOARD -- 3/4" MARINE PLYWOOD, FWD EDGE ROUNDED, AFT EDGE TAPERED TO 3/8".
- ⑮ CENTERBOARD SLOT -- 7/8" THROUGH KEEL & HOG, 1" IN TRUNK & CAP.
- ⑯ SOLE & MARGIN BOARDS -- 7/8" CEDAR OR FIR, SPACED ABOUT 1/8".
- ⑰ THAWARTS -- 3/4" MAHOGANY, 9' 1/4" WIDE, SLP THAWART 7' WIDE.
- ⑱ KNEES -- LAMINATED LOCUST OR ASH, S. 1 1/8", M. 5/8".
- ⑲ INWALES -- D. FIR OR SPRUCE, S. 7/8", M. 1 3/8" TAPERED AT BOTH ENDS.
- ⑳ DECK BEAMS -- D. FIR OR SPRUCE, S. 1/2", M. 7/8".
- ㉑ AFT DECK -- 1/4" MARINE PLYWOOD, WITH MAHOGANY EDGING.
- ㉒ SIDE DECKS -- BUTTERNUT, CEDAR OR MAHOGANY, S. 7/8".
- ㉓ COAMINGS -- MAHOGANY OR LOCUST, 1/2" X 5/8".
- ㉔ BULKHEAD & DOOR -- 1/2" MARINE PLYWOOD.
- ㉕ MIZZEN MAST THAWART -- D. FIR OR SPRUCE, 1 X 3 1/2".
- ㉖ MIZZEN MAST PARTNER -- LOCUST OR OAK, S. 1".
- ㉗ MIZZEN MAST STEP -- MAHOGANY OR FIR W. PLYWOOD GLUED TO TOP.
- ㉘ MAIN MAST PARTNER TUGGLES -- 3/4" LOCUST OR OAK, SPRINGS LOADED.
- ㉙ AUX. MAIN MAST STEP -- LOCUST OR OAK, 1 X 4".



STATION 12
SCALE 3" = 1'



- ㉚ BREASTHOOK -- MAHOGANY, 1 1/2", CL BEAM SPLINED WITH 1/4" PLYWOOD, FLAT ACROSS BOTTOM, CROWNED ON TOP.
- ㉛ SKEG -- MAHOGANY OR D. FIR, S. 1", TAPERED TO 3/4" AT BOTTOM.
- ㉜ RUDDER -- 3/4" MARINE PLYWOOD TAPERED TO 3/8" AT TRAILING EDGE.
- ㉝ AFT DECK MOLDING -- MAHOGANY, 1/4" X 1/2".
- ㉞ AFT DECK SHEATHING -- LIGHT CANVAS SET IN EPOXY RESIN.
- ㉟ TOWING HOLE -- LINED WITH 1/2" CO COPPER TUBING.
- ㊱ BILGE PUMP -- WHALE COMPAC SQ. BP0350.
- ㊲ BALLAST BAGS -- HEAVY CANVAS FILLED WITH 25 LB. LEAD SHOT, TWO OR THREE RECOMMENDED.
- ㊳ HOLES FOR TILLER LINES -- LINED WITH 1/2" CO COPPER TUBING, FLANGED ON BOTH ENDS, SET INTO BULKHEAD AND TRANSOM.
- ㊴ FAIRLEAD FOR MIZZEN SHEET, BRONZE.
- ㊵ STEERING LINE -- 3/8" ROPE SEIZED TO ENDS OF STEERING TACKLES, LEFT SLIGHTLY LOOSE.
- ㊶ PIVOT PIN -- 3/8" BRONZE ROD.
- ㊷ KEEPER PLATES -- 1/8" BRONZE, 1 5/8" X 2".
- ㊸ CHAFING GEAR -- 5/8" BRASS HALF OVAL INSTALLED FROM STEM HEAD TO END OF SKEG, DOUBLE AT CENTERBOARD, AT STEM, FILE TO SAME WIDTH AS STEM FACE.
- ㊹ INTERNAL STEERING TACKLE -- MAY USE MODERN LIGHTWEIGHT BLOCKS.



2/9/04

SHEET 5 OF 11



