

40' Steel Brigantine

Design Number 129
1975

How do those long-distance cruisers keep their finances in order? Are they independently wealthy? Or do they work as they go to keep up some cash flow? Many keep cruising by doing the latter — they work during breaks in their cruising. One way to do this is to carry the tools of their trade aboard.

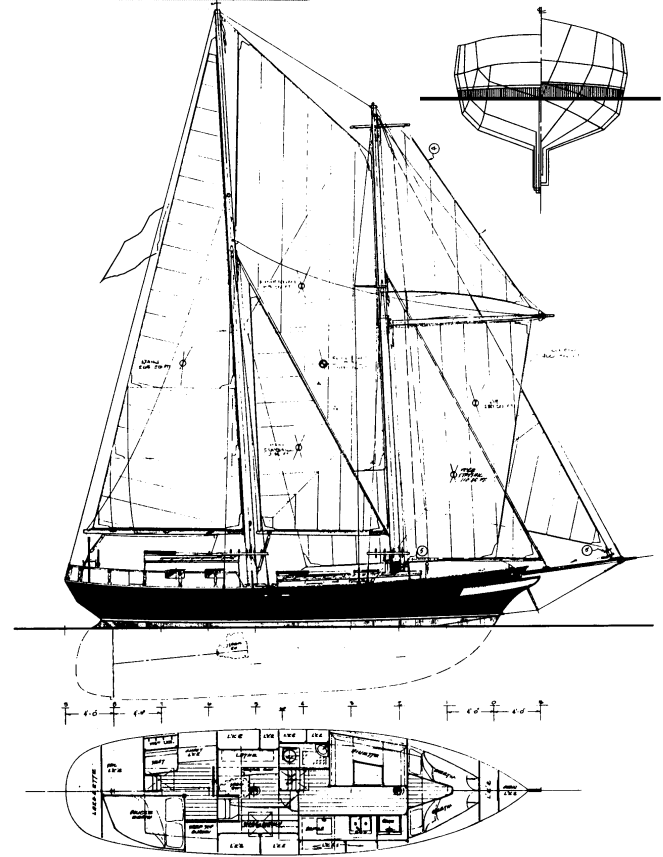
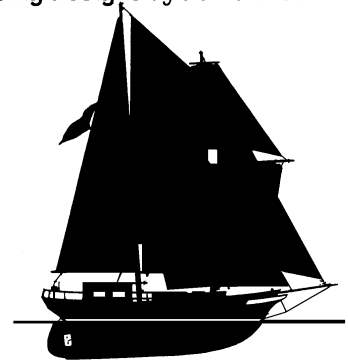
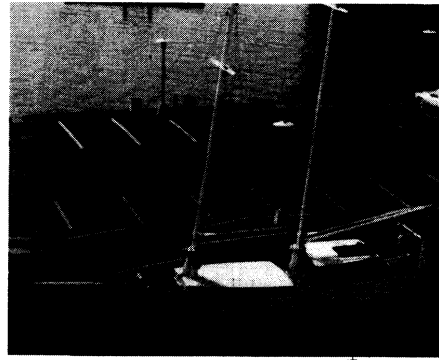
This 40' Brigantine was designed for a cruising couple where the husband was a machinist and wanted a small machine shop on board. The equipment weight, the parts and tools associated with it and the steel structure of the boat necessitated a heavy displacement design. The benefits are a wonderfully easy motion and steady feeling which those used to lightweight coastal cruisers will find amazing.

The aft deckhouse has the owners' double berth, a lounging seat and an inside steering station with chart table. Down a few steps and walking through the engine room/machine shop takes one to the forward cabin. There, amidships, is the head next to the companionway ladder, making access for the on deck watch easy. The galley and dinette are good sized with plenty of storage spaces.

The forward cabin has v-berths, which could be converted to a double berth with locker opposite. In the bow is another locker and chain locker.

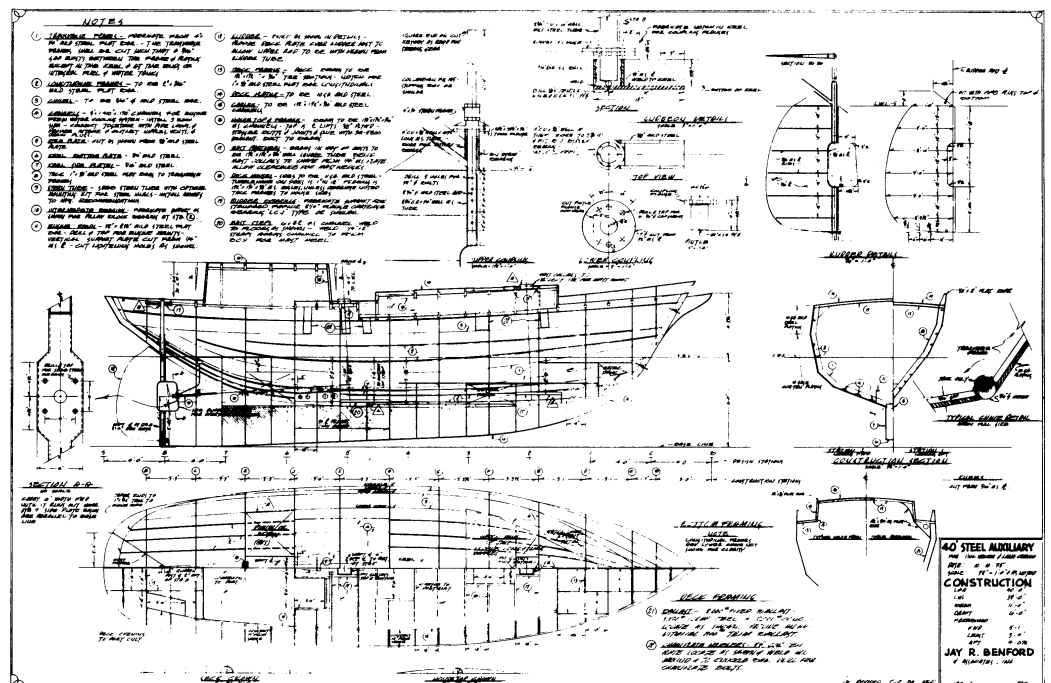
Her rig is staysail schooner, with a square yard on the foremast, making her a brigantine. She could be sailed without the square rig as a schooner, or the rig could be slightly modified like The Great Pyramid Rig on *Sunrise*, which has proven very effective and easily handled with a small crew.

Her hull form takes the knuckle from the fantail stern forward as a topside chine and the widest part of the boat amidships. This can be built with a section of pipe built in here to make a sturdy guard rail. A handsome ship which will make life aboard pleasant for her crew, she will make for an interesting lifestyle for years to come.



Particulars:

Length overall	40'-0"
Length designed waterline	32'-0"
Beam	11'-0"
Draft	6'-0"
Freeboard: Forward	5'-1"
Least	3'-4"
Aft	4'-0 1/2"
Displacement, cruising trim	37,120 lbs.
Displacement-length ratio	498
Ballast	12,000 lbs.
Ballast ratio	32%
Sail area	1,100 sq. ft.
Sail area-displacement ratio	15.86
Prismatic coefficient	.635
Pounds per inch immersion	1,366
Entrance half-angle	26°
Water tankage	250 Gals.
Fuel tankage	150 Gals.
Headroom	6'-3"



40' STEEL BRIGANTINE
CONSTRUCTION
JAY R. BENFORD
DESIGNER