

# H.M.C.S. SACKVILLE (K-181)

---

## HULL FRAMING ASSESSEMENT



### **OCEAN TECHNICAL SERVICES, LLC.**

**Joseph Lombardi**

Marine Surveyor & Consultant

1400 El Camino Village Drive, #707

Houston, Texas 77058

1.978.958.1299 [www.oceantechserv.com](http://www.oceantechserv.com)

# Ocean Technical Services, LLC.



---

**JOSEPH W. LOMBARDI**

Marine Surveyor & Consultant  
1400 El Camino Village Drive, # 707  
Houston, Texas 77058

Telephone Cellular (508)-958-1299  
Fax (866)-381-2687, E-mail [joe@oceantechserv.com](mailto:joe@oceantechserv.com)  
[www.oceantechserv.com](http://www.oceantechserv.com)

---

26 December 2023

Mr. Bill Woodburn  
Canadian Naval Memorial Trust  
HMCS Sackville  
P.O. Box 99000  
Stn Forces  
Halifax NS B3K 5X5

Surv3006

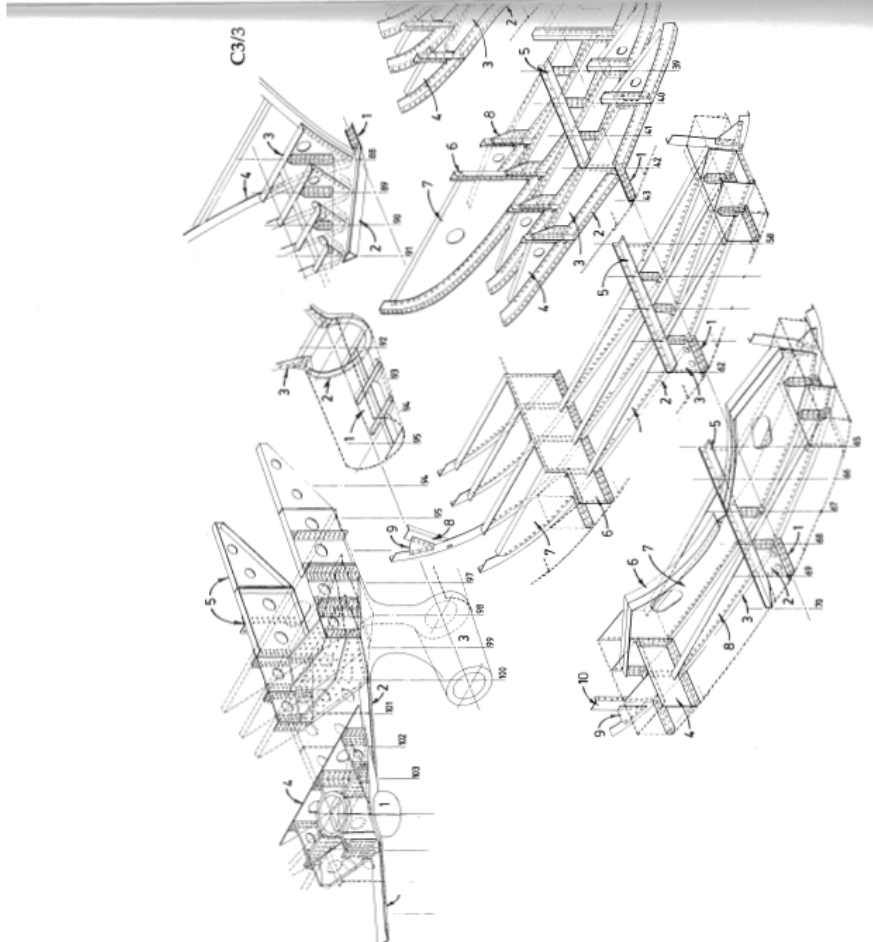
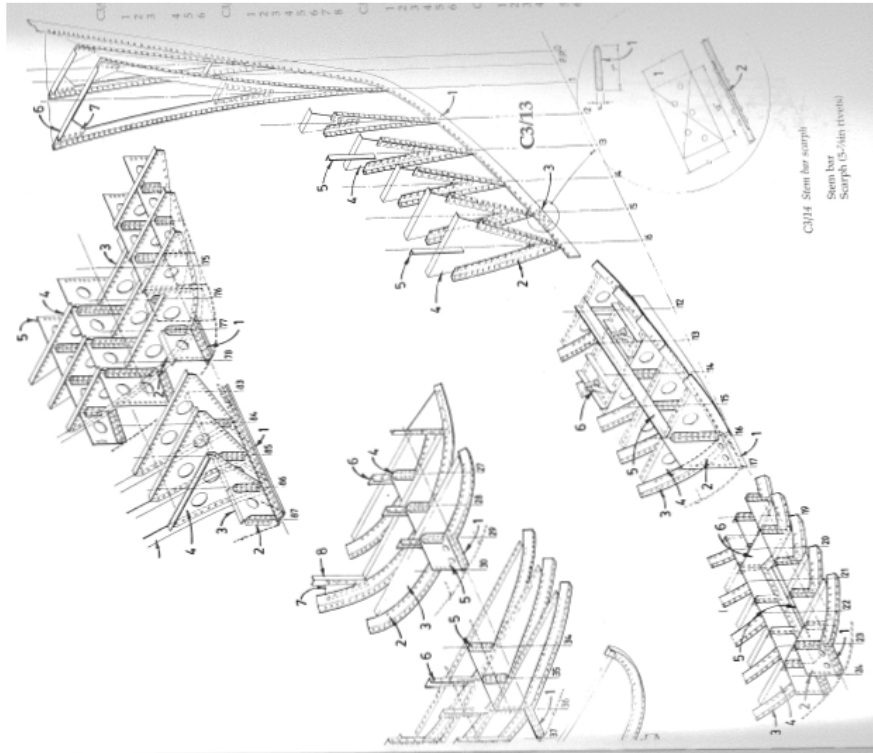
## RE: SACKVILLE INTERIOR FRAME INSPECTION & SHIPYARD SPECIFICATION

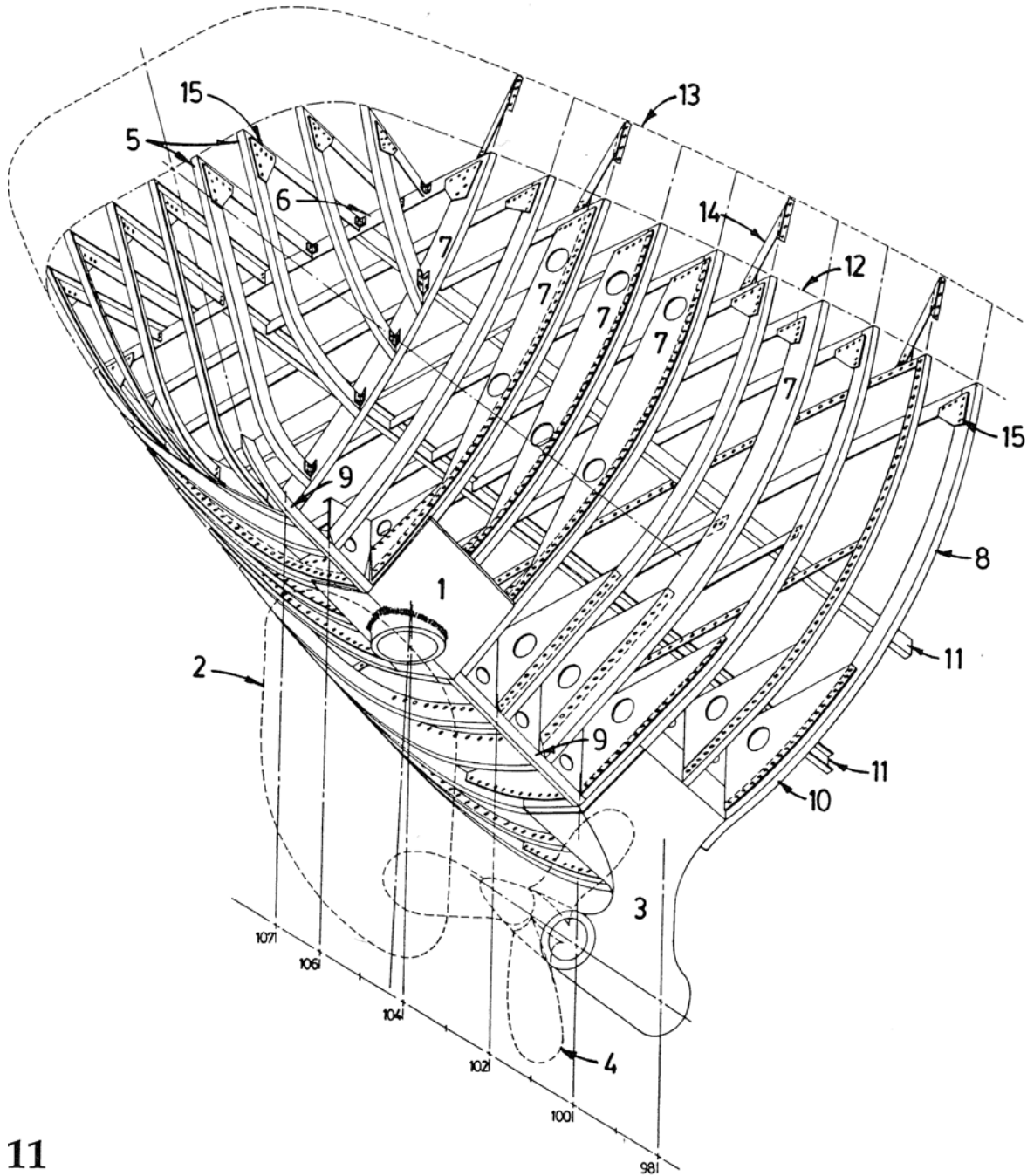
The SACKVILLE was inspected (afloat) at the Canadian Navy Shipyard, Halifax, Nova Scotia; she presents an exceptional cosmetic appearance and appears to float on her designed lines. SACKVILLE is plated in the traditional manner of three (3) riveted steel strakes commencing from the keel up as A, B, and C to the waterline area. Her frames were the principal interest in this inspection. SACKVILLE had been hauled at the Navy Yard for the purposes of installing doubler plate to give her a modicum of time before the wholesale replating of her hull commences in the next year or so.

It became apparent that the repairs to her framing was also done at this time and that has served the ship well. The spaces were then blasted, primed and painted.

It is an uncommon event to state that the interior framing was in great repair after 80+ years , but with the exception of the engine room, the original framing is intact. Copies of the vessel's framing plans are inserted within the pages of this report with a space-by-space accounting as to the material condition of frames.







11

4

VESSEL DATA

LOA: 205' 03"  
BREADTH MOULDED: 33' 00"  
MEAN DRAFT: 11' 03"  
BEARING LENGTH OF KEEL: 132' 00"  
DOCKING DISPLACEMENT: 925 LT<sup>1</sup>

---

SPACE/TANK/FRAMES INSPECTION , FORWARD TO AFT

FOREPEAK TANK FRAMES 0 – 8

Not observed due to full ballasting

CABLE LOCKER, FR. 8-19

Frames in excellent material condition. no standing water and well painted.

---

<sup>1</sup> SACKVILLE SYNCROLIFT CRADLE BLOCKING ARRANGEMENT. FMCS/NAONAV J ARSENAULT



GIFT SHOP GIFTSHOP STOREROOM, FR. 8 - 24

Frames in excellent material condition. no standing water and well painted.

#1 STOREROOM, FR. 19 - 24

Frames in excellent material condition, mild rust/scale, no standing water and well painted.



#1 & #2 FRESH WATER TANKS, FR. 26 -31

Not observed due to being pressed full of water.

#2 STOREROOM, FR. 31 – 43

Frames in excellent material condition. no standing water and well painted.

#3 & #4 BALLAST TANKS, FR. 38 – 44

Not Observed.

#5 & #6 BALLAST TANKS, FR. 43 – 52

Frames in excellent material condition. minimal standing water with rust/scale, well painted.





Cofferdam, FR. 54 ½ - 57

Frames in excellent material condition. no standing water and well painted.



BOILER ROOM, FR. 57 - 70

Frames in excellent material condition. no standing water and well painted. Boiler foundation looks excellent.



## #7 & #8 BALLAST TANKS

Not observed.

## ENGINE ROOM, FR. 70 – 85

Damage/corroded frames to port and starboard repaired as needed. New sister frames inserted between originals. Space is well painted. Main engine foundation intact and in good material condition.



**New sister frames inserted between originals to port and starboard.**



**Another view showing original and sister frames.**

#3 STOREROOM, FR. 87 – 96

Frames in excellent material condition. no standing water and well painted.

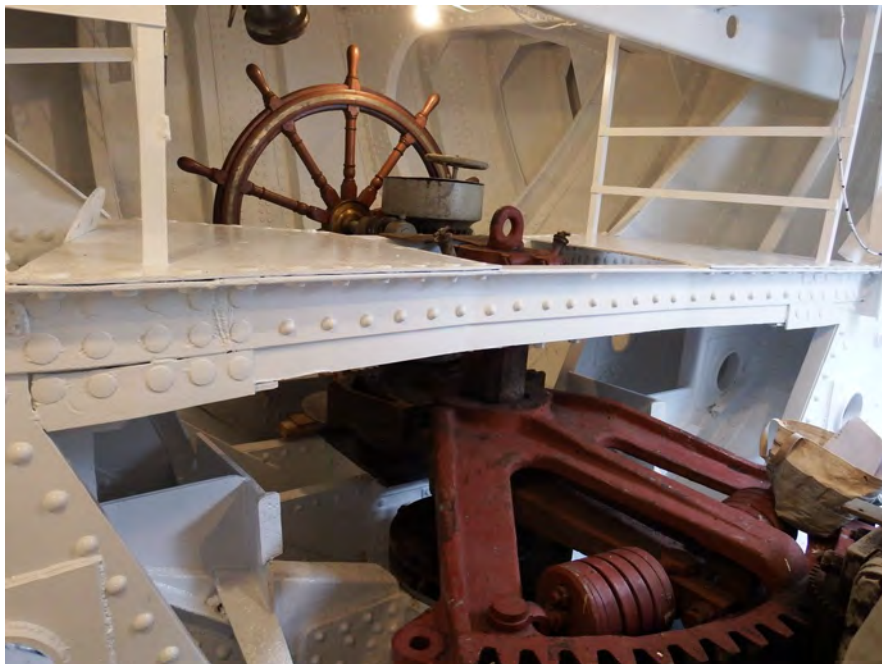


AFTER PEAK TANK, FR. 96 – 106

Not observed, filled with ballast water.

STEERING GEAR COMPARTMENT, FR. 99 – 107

In great material condition. Framing intact with good foundations for the steering engine. Well painted.



SUMMARY OF OBSERVATIONS

Surveyor found ship in excellent material condition. Spaces were clean and well preserved and are ready for the peeling back of the doubler plating and original plate for the application of the new skin. The Surveyor received full cooperation and assistance from the crew with a dash of humor. This assignment was a delight!

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Joseph Lombardi".

---

Joseph Lombardi  
Marine Surveyor