



Committee on Administration, Buildings & Grounds
Virginia Institute of Marine Science
February 7, 2014



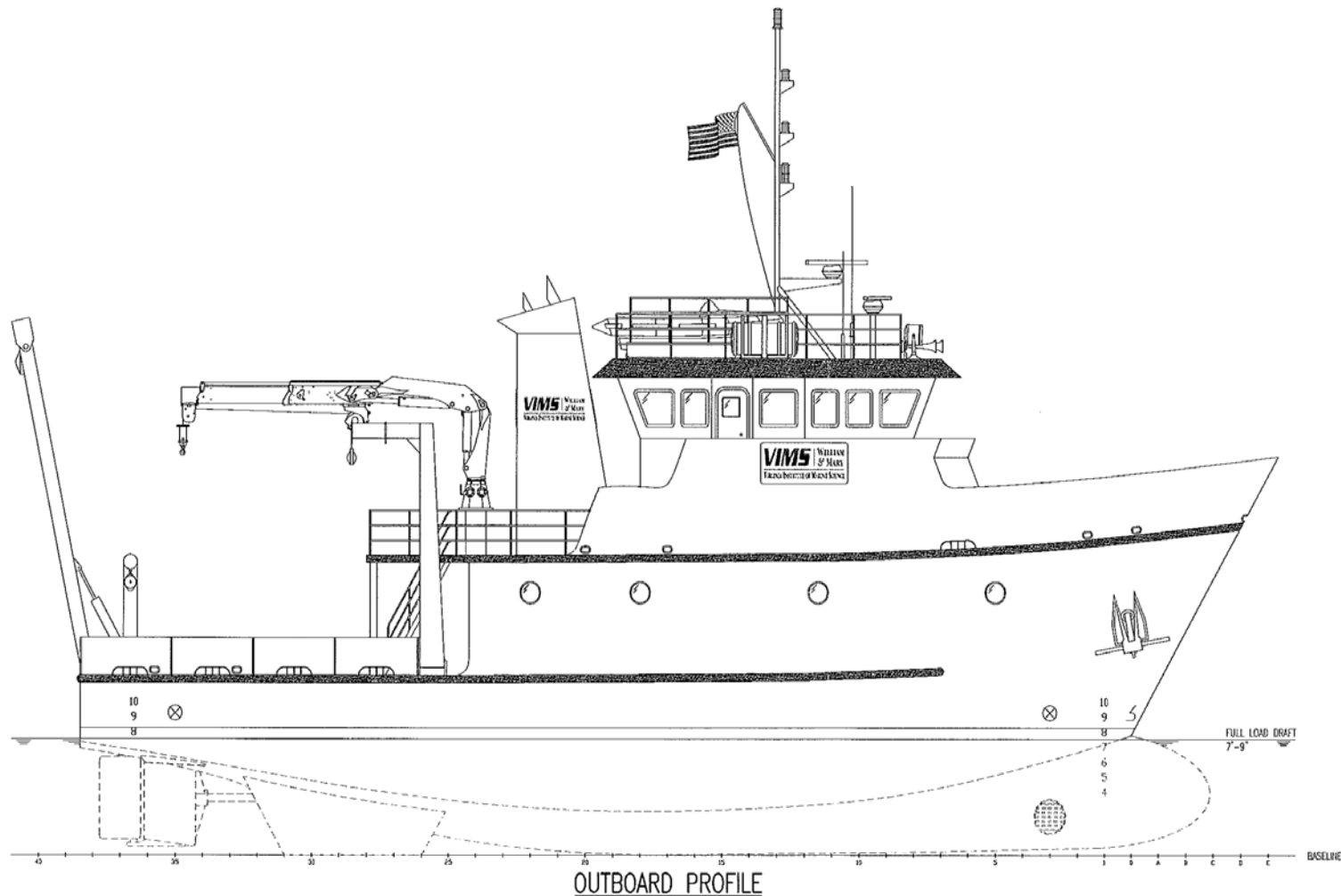
Construction Update

New Research Vessel

- 5 Conceptual Designs
 - 3 – approx 85 FT
 - 2 – approx 75 FT
- All have Dynamic Positioning
- Investigating Diesel Electric Engines
- Berthing ranges from 11 – 14
- Next meeting to discuss concepts and select design: Feb 13-14



New Research Vessel – 85' Style



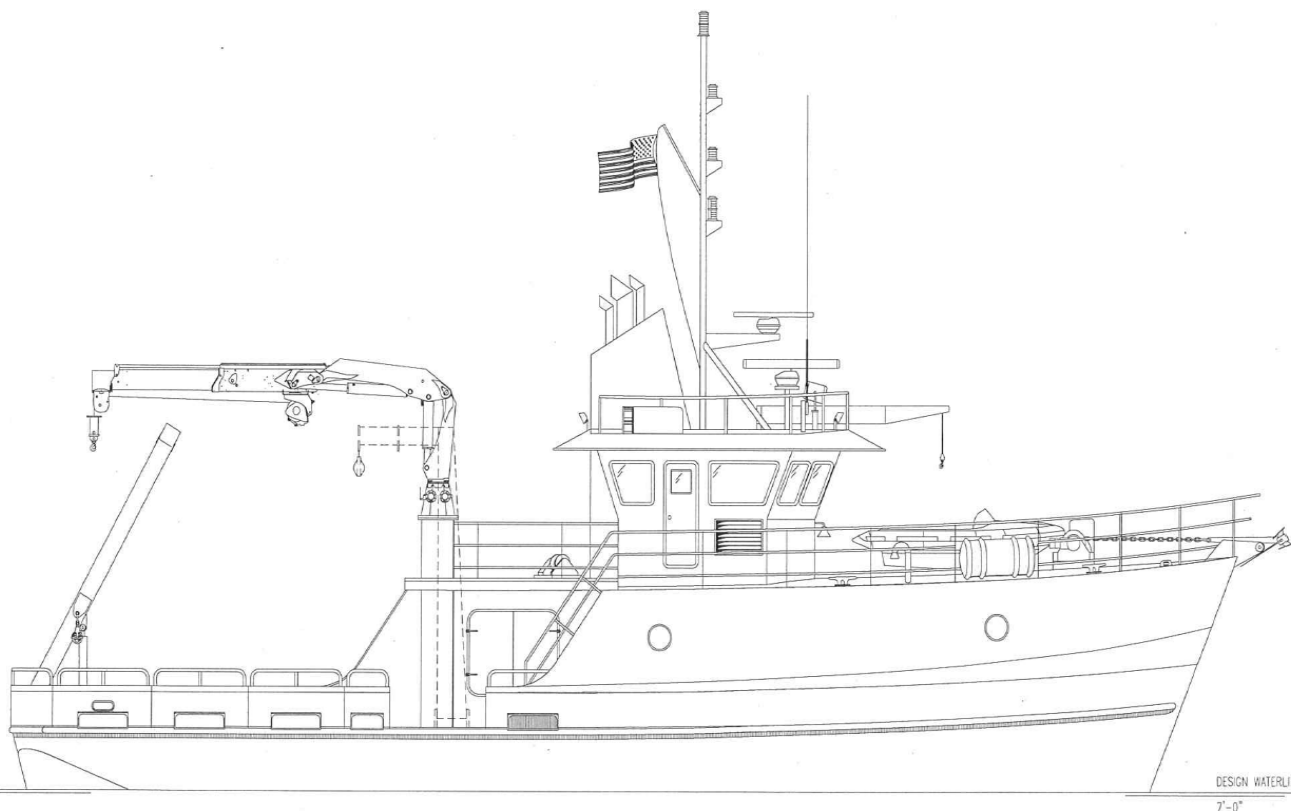
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VA
CONCEPT 1
85' X 26' X 12'

JIMS
NAVAL ARCHITECTS
SALVAGE ENGINEERS

34 Water St.
Mystic, CT 06355
voice 860.536.0009
fax 860.536.9117
jims@jimsloam.com

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New Research Vessel – 75' Style



OUTBOARD PROFILE

GENERAL NOTES

VESSEL CONFIGURED FOR CONVENTIONAL SINGLE DIESEL, SINGLE SCREW FIXED PITCH PROPELLER.

MAIN ENGINE: ONE (1) CAT C32, A RATING, 634 bKW, 1800-2100 RPM.

PROPULSION GEAR BOX: TWIN DISC MGX-5321 DC

GENERATORS: TWO (2) CAT C4.4 99 bKW GENSETS

FWD THRUSTER ENGINE: ONE (1) CAT C7, B RATING, 205 bKW, 2400 RPM.

THRUSTERS: TWO (2) SCHOTTEL SPJ-22 PUMP JETS. ONE FWD, ONE AFT.

BERTHING: 12

ON THE LOWER DECK, THE STEERING GEAR IS LOCATED IN A DEDICATED ROOM. FARTHER FORWARD, AN AUXILIARY MACHINERY ROOM HOLDS THE AFT PUMP JET ALONG WITH ITS HYDRAULIC MOTOR AND STEERING PUMP. THE ACCOMMODATIONS ARE LOCATED AT MIDSHIPS. FORWARD OF THE ACCOMMODATIONS IS THE ENGINE ROOM, CONTAINING THE PROPULSION MACHINERY, ELECTRICAL EQUIPMENT, AND AUXILIARY EQUIPMENT. FORWARD OF THE MACHINERY ROOM IS THE BOW THRUSTER ROOM. THIS ROOM CONTAINS THE BOW THRUSTER AND ITS ENGINE, AS WELL AS THE AIR COMPRESSOR, HOT WATER TANK, AND OTHER AUXILIARY EQUIPMENT.

THE LOWER ACCOMMODATIONS PROVIDE BERTHING FOR 10 IN TWO 4 BUNK STATEROOMS AND ONE 2 BUNK STATEROOM. ALSO LOCATED WITHIN THE ACCOMMODATIONS IS A HEAD, SHOWER, AND STORES.

MAIN WORKING DECK WITH SUFFICIENT LENGTH TO PERMIT A 20 FOOT ISO CONTAINER TO BE LOADED ON DECK. A SMALL 01 DECK OVERHANG PROVIDES COVER FROM WEATHER.

THE MAIN DECK LAYOUT PROVIDES EASY ACCESS FROM THE WORKING DECK TO THE WET LAB. FORWARD TO STBD IS A HEAD, 2 BUNK STATEROOM, AND STAIRS DOWN TO THE ENGINE ROOM. TO PORT ARE STAIRS TO THE LOWER ACCOMMODATIONS AND PILOTHOUSE, A LOCKER, AND THE DRY LAB. THE WESS AND GALLEY ARE LOCATED FORWARD, ALONG WITH A PANTRY. ACCESS TO THE BOW THRUSTER ROOM IS GAINED THROUGH A FLUSH HATCH IN THE FLOOR OF THE GALLEY. FORWARD OF THE GALLEY IS A STORAGE SPACE ACCESSIBLE FROM THE FORECASTLE DECK.

THE PILOTHOUSE IS LOCATED ON THE 01 LEVEL. AFT OF THE PILOTHOUSE IS THE WINCH/CRANE DECK. FORWARD OF THE PILOTHOUSE IS THE FORE DECK WITH MOORING ARRANGEMENTS AND ANCHOR WINDLASS. THE RESCUE BOAT IS ALSO LOCATED ON THE FORE DECK. THE DAVIT FOR THE RESCUE BOAT IS LOCATED ON THE ROOF OF THE PILOTHOUSE.

PALFINGER PK23500M CRANE SHOWN.

PRINCIPAL DIMENSIONS

LENGTH OVERALL	76'-6"
LENGTH DWL	68'-6"
MOLDED BEAM	26'-0"
LIGHTSHIP DISPL	130 LT

VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VA

DRAFT CONCEPT 5
76'-6" X 26' X 10'-6"

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fax 860.536.9117
jms@jmsnet.com

Consolidated Scientific Building

- 5 A/E firms interviewed last week
- Contract negotiations will commence once a firm is selected
- Design will begin early March
- Summer 2016 target opening



Facilities Management Building

- Funding for a feasibility study
- Received proposals from A/E firms and committee is reviewing proposals to narrow to a short list for interviews
- Interviews to be held February 18-19



Questions?



Future Buildings



Facilities Management

**Consolidated
Scientific Research
Facility**