

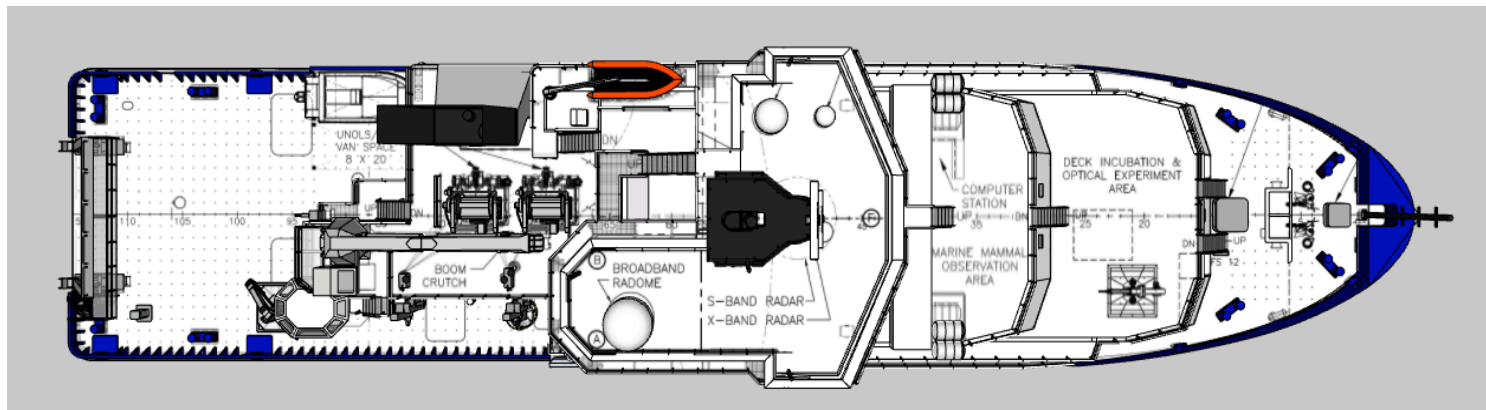
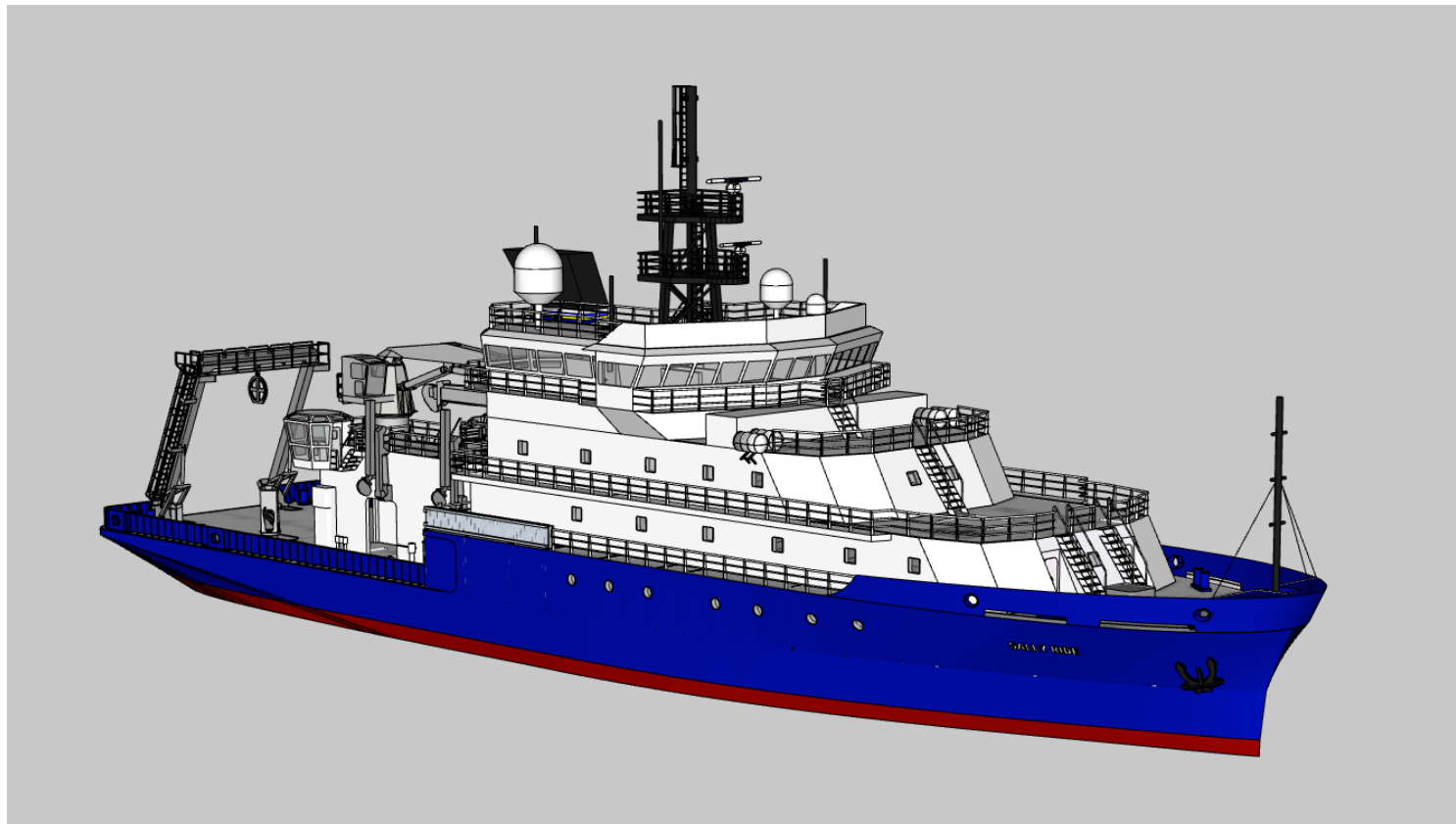
R/V SALLY RIDE DECK AND LAB SPACES

Shipboard Technical Support

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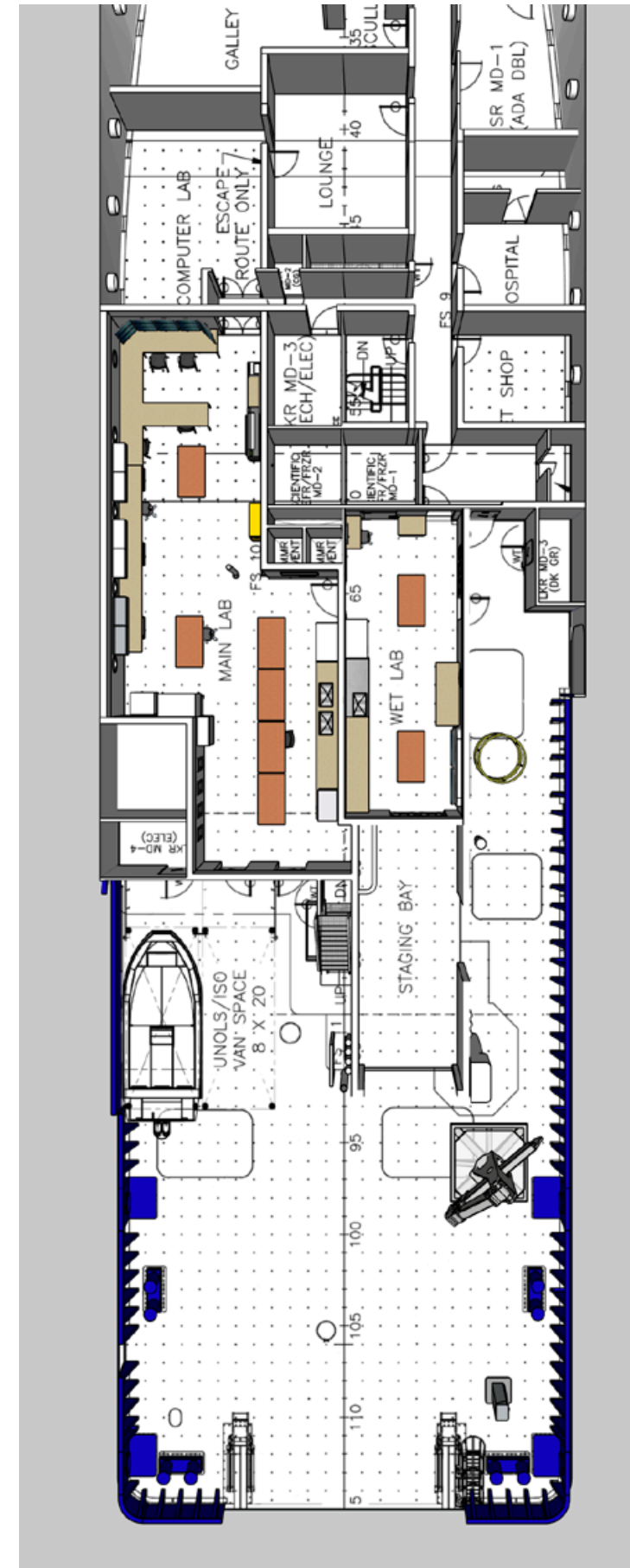


DOCUMENT SCOPE

R/V *Sally Ride* is an Ocean Class Auxiliary General Oceanographic Research (AGOR 28) vessel designed to perform multidisciplinary oceanographic research worldwide.

The deck and lab spaces aboard were built to be highly modular between cruises, capable of being configured to meet the needs of various science mission requirements.

This document is intended to provide ship users an overview and reference to the capabilities of science spaces on *Sally Ride*. From these specifications, layout of scientific instrumentation and deck equipment will be coordinated through the resident marine technician group (ResTechs) as a part of the cruise planning process.



OVERHEAD VIEW OF MAIN DECK

The main lab, wet lab, staging bay, and weather decks are configurable to the needs of the science party. However, the computer lab consists of the ship's network and instrumentation and is not customizable between cruises.

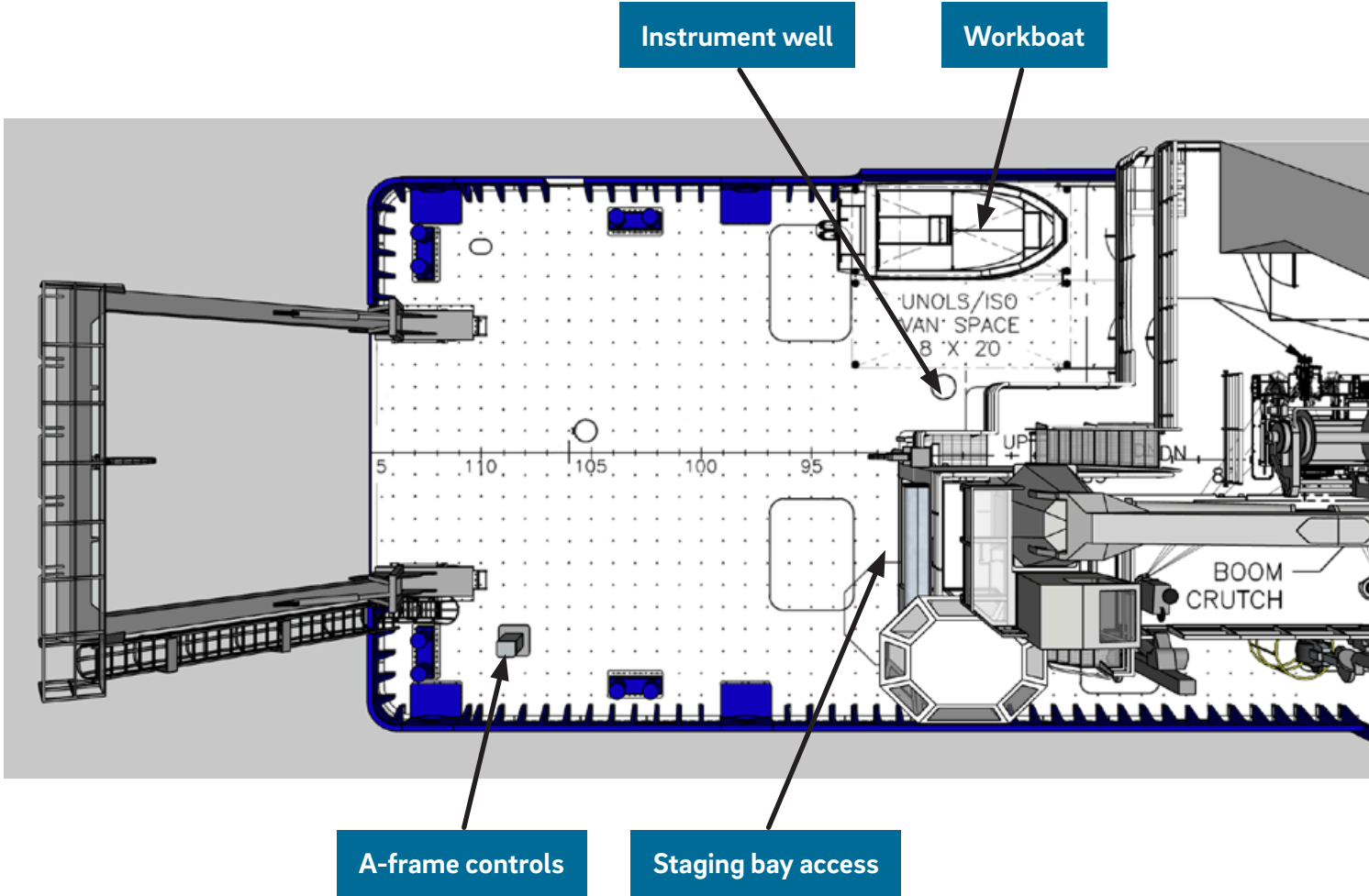
2' x 2' Deck Socket Pattern

- 1"-8 sockets on weather deck
- 1/2"-13 sockets on interior lab decks
- Standard across UNOLS vessels

1' x 6" Lab Bench Socket Pattern

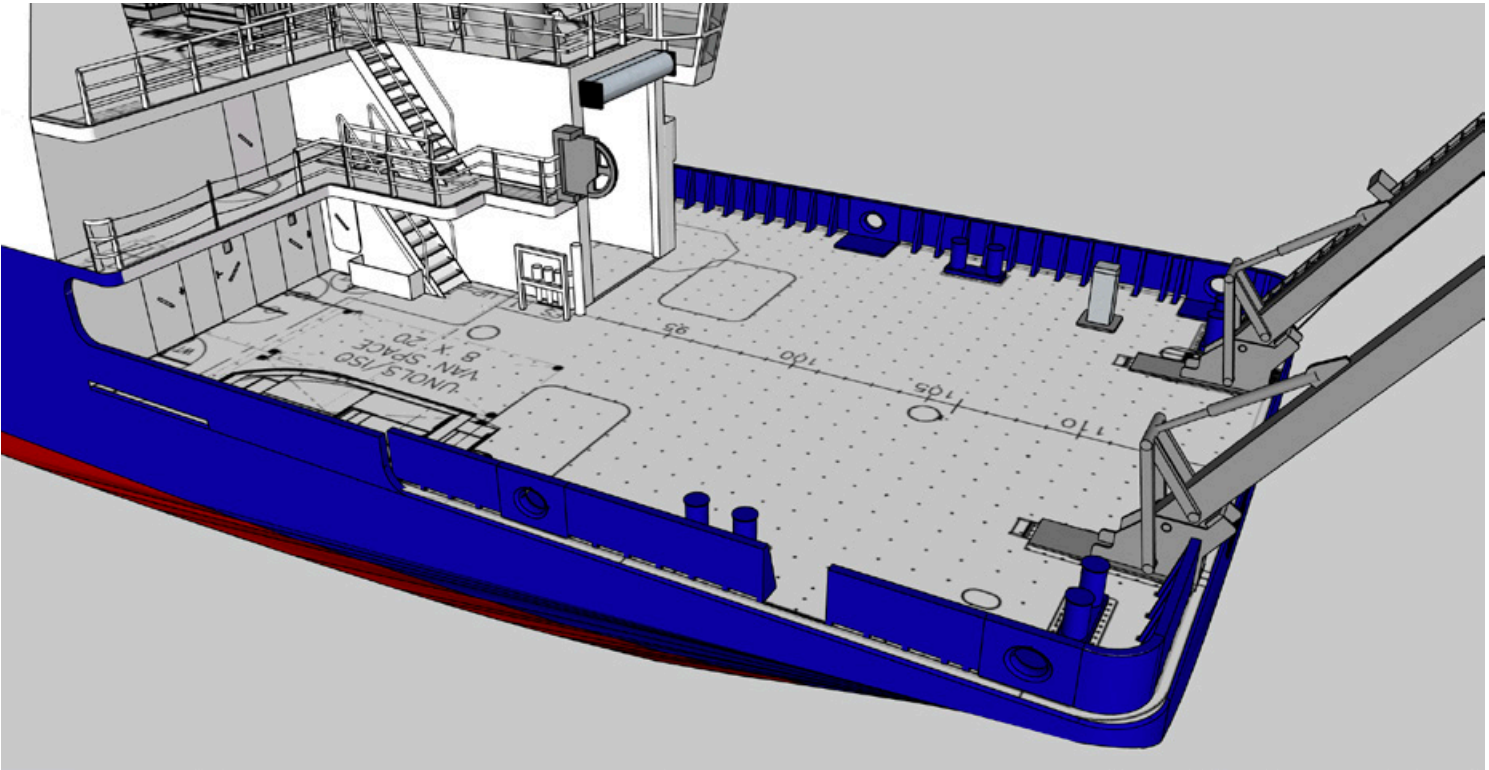
- 1/4"-20 sockets on perimeter lab benches
- No drilling permitted on perimeter bench tops
- Drilling permitted on nesting lab tables

FANTAIL OVERHEAD VIEW

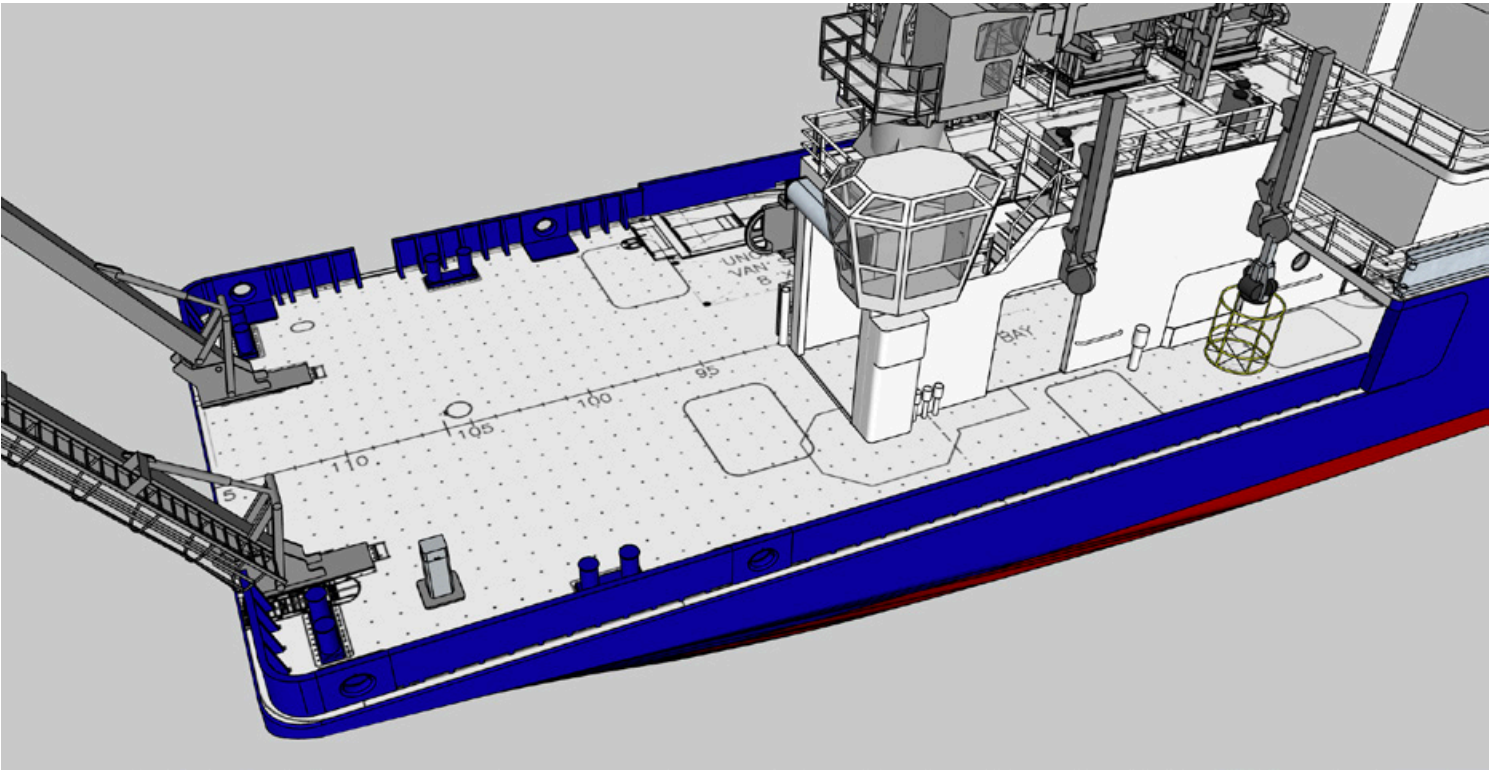


- Instrument well and pipe string, which allows for temporary installation of various sonars flush with hull
- Enclosed staging bay with roll top doors, high clearance, and 2-ton chain hoist on fore-aft trolley
- Aluminum work boat with twin outboard engines
- Capstan available (not shown)
- Various deck hardware available including cleats, lifting straps, lines, pig weights, padeyes, blocks and securing gear

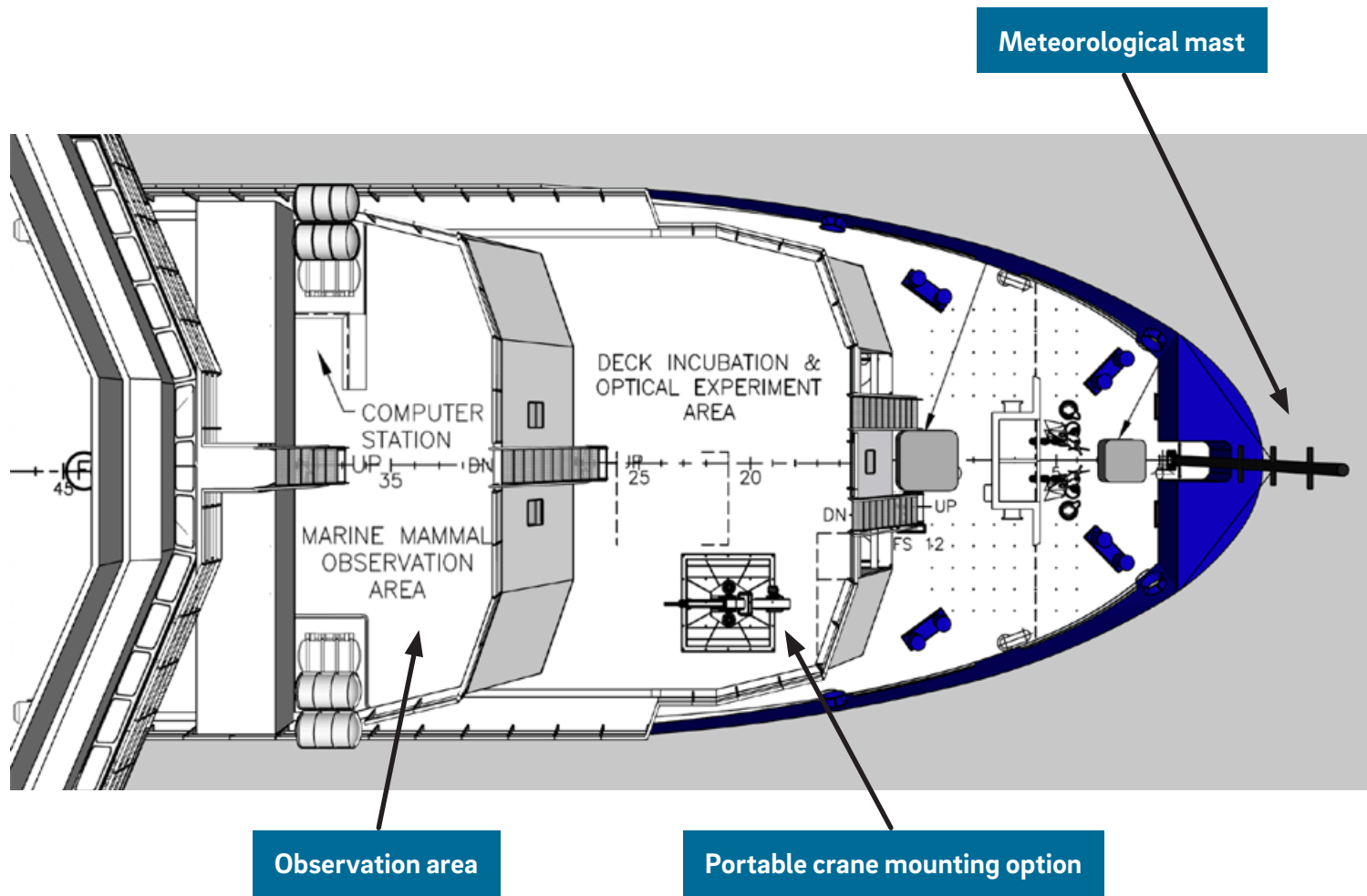
FANTAIL PORT PERSPECTIVE VIEW



FANTAIL STARBOARD PERSPECTIVE VIEW

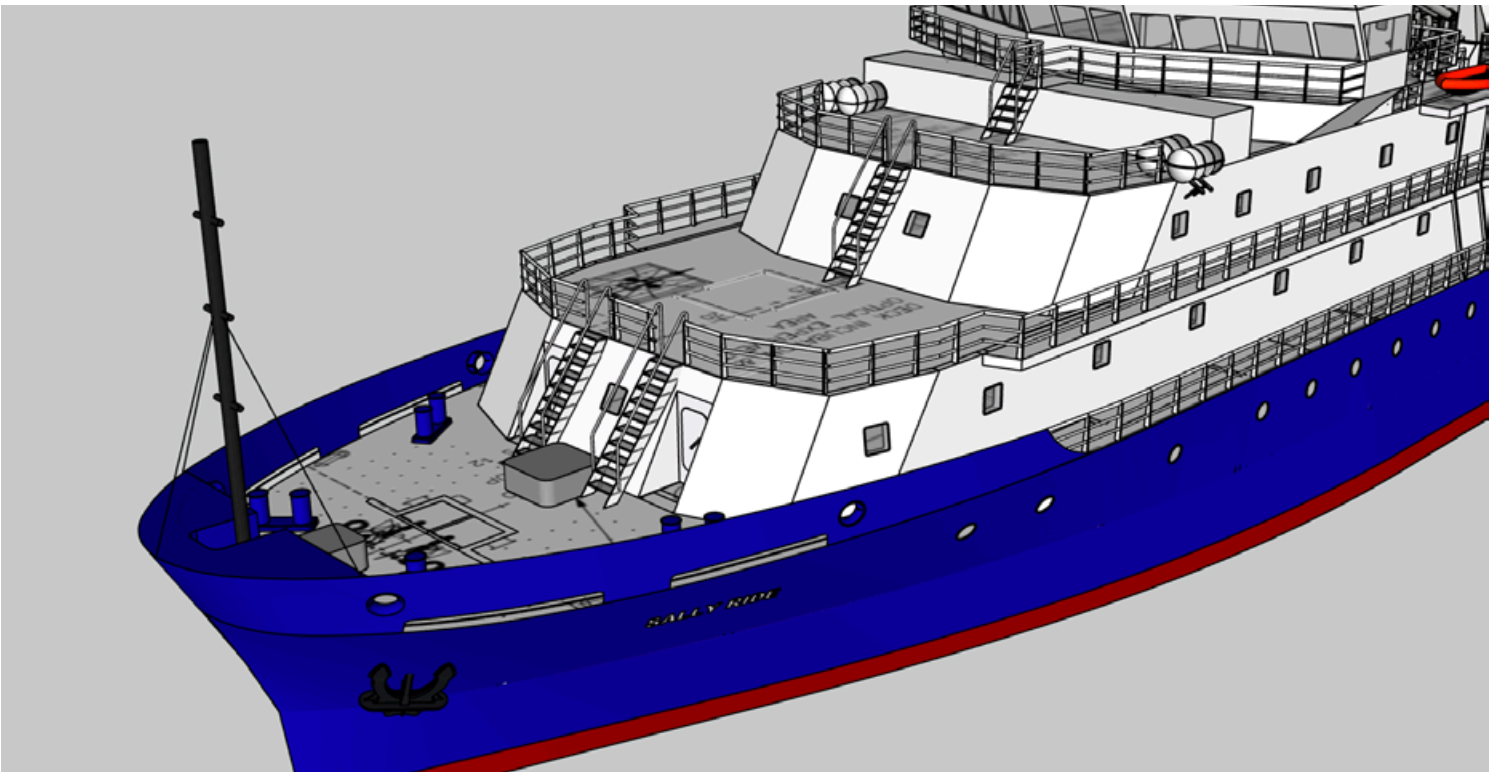


FORE DECK OVERHEAD VIEW

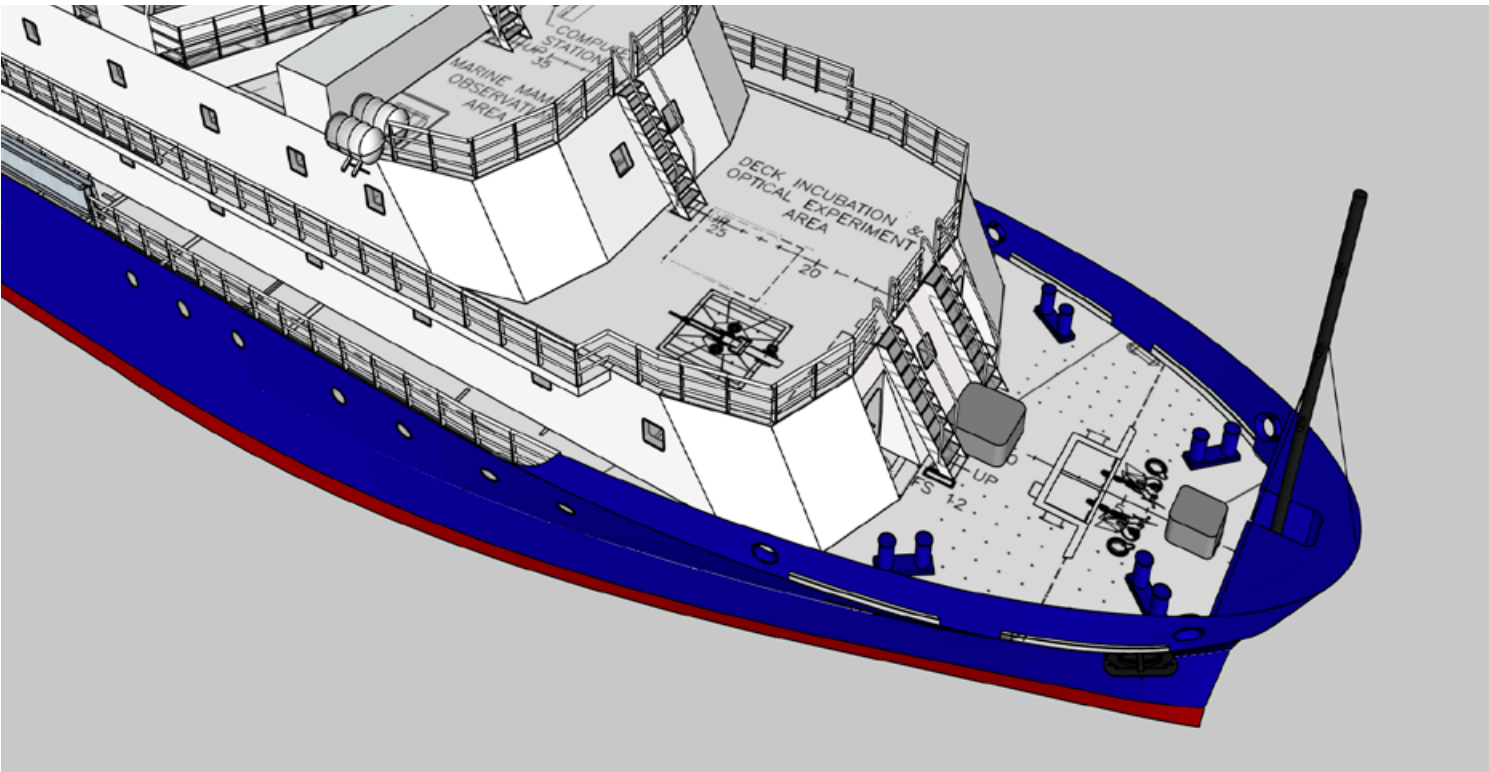


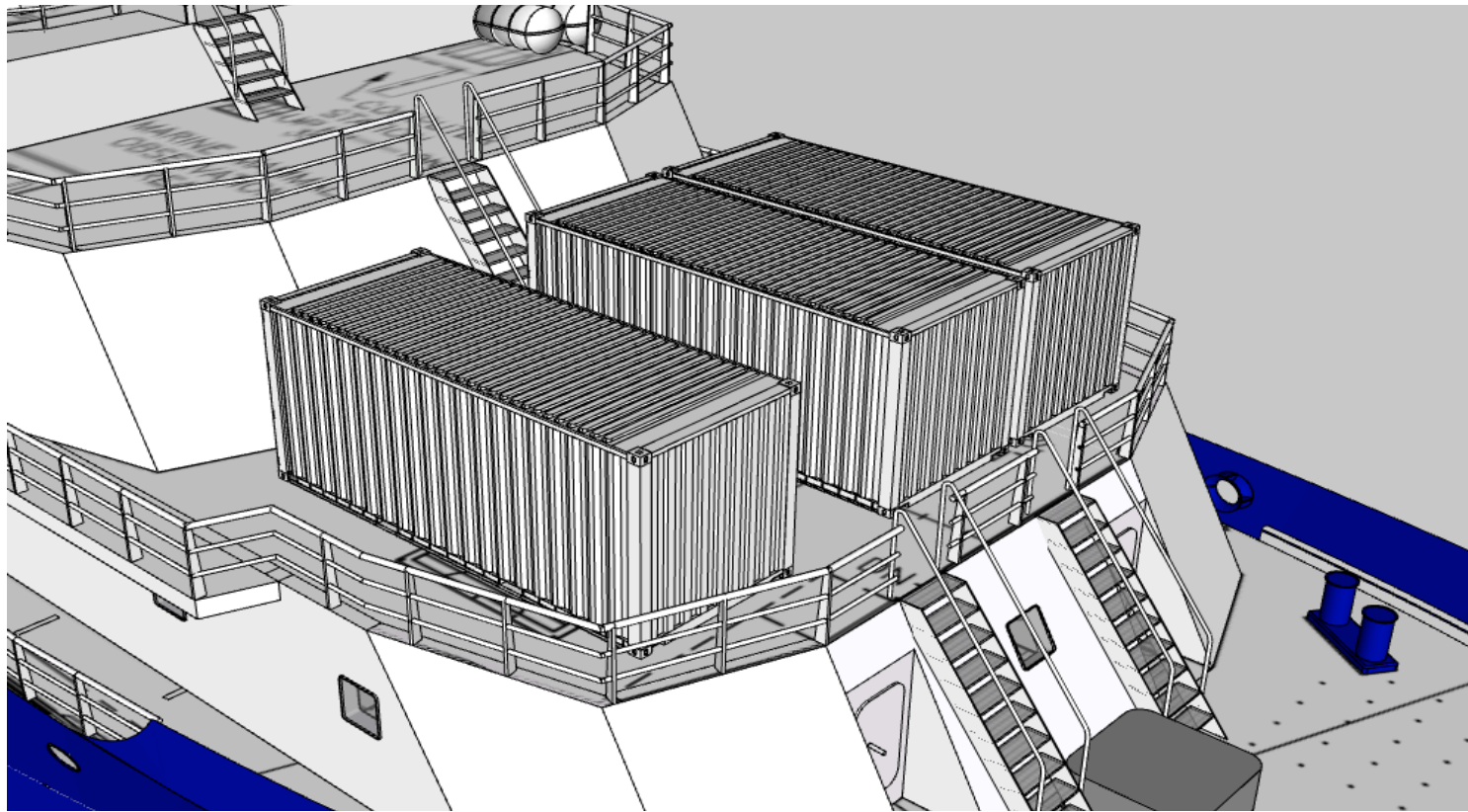
- Meteorological mast
- Optical experiment deck
- Marine mammal observation deck

FORE DECK PORT PERSPECTIVE VIEW



FORE DECK STARBOARD PERSPECTIVE VIEW





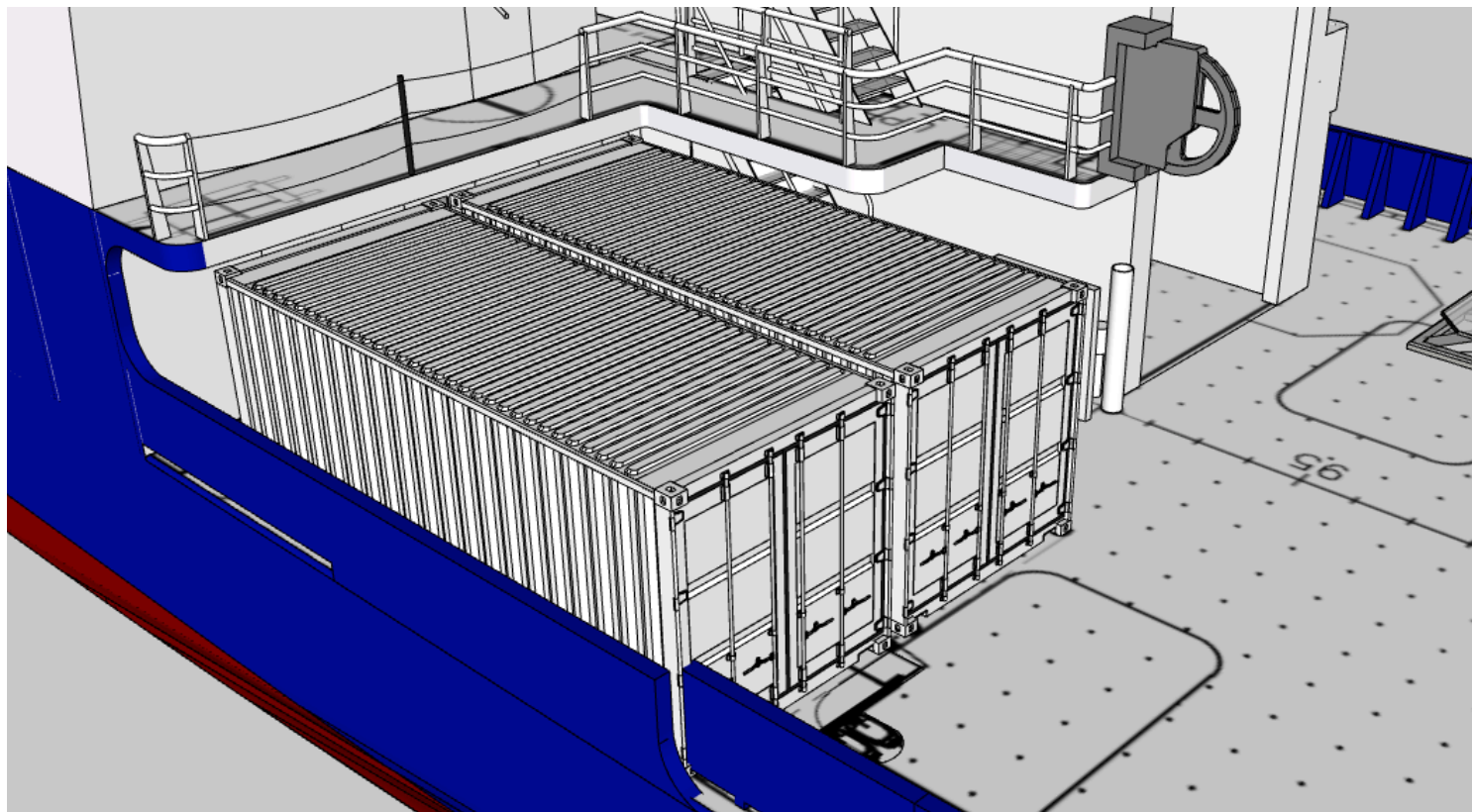
CONTAINER PLACEMENTS

The ship can accommodate 20' standard shipping containers. Custom van sizes would need adapter plates to be secured to the deck.

Scientific laboratory vans, such as those in the UNOLS Van Pools, fit on the same footprint as standard 20' shipping containers. When placed on the port main deck or fantail, vans can be supplied with power, fresh water, salt water, drainage, intercom communications, Internet, and data feeds.

Space For Three Containers On Fore Deck

- Four possible locations with maximum space for three containers

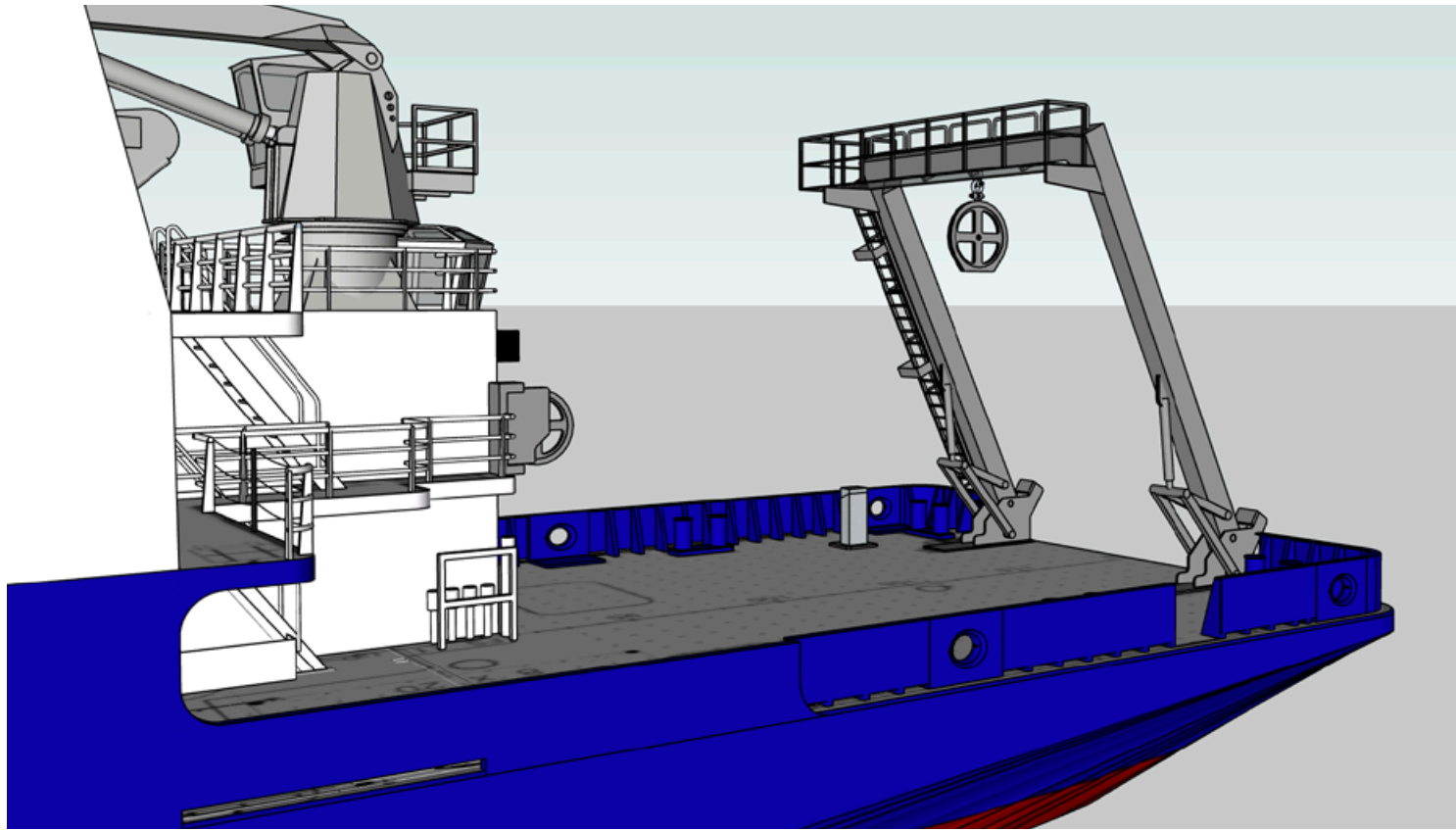


Space For Two Containers On Port Main Deck

- Main lab access forward of vans
- Ship's work boat can be stacked on top of a van

Space For Two Containers On Fantail (not shown to left)

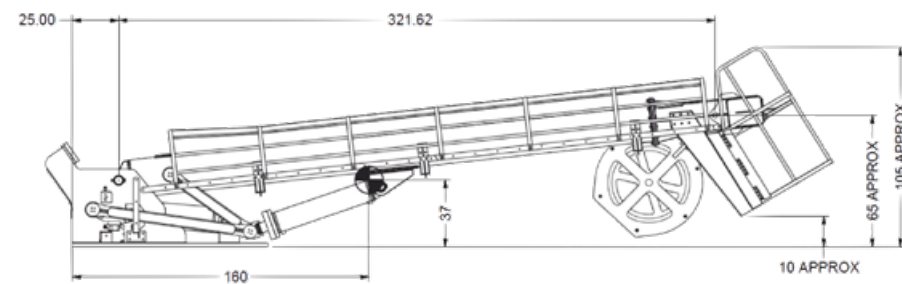
- Two sets of twist-lock securing plates that can be bolted to various locations on the main deck



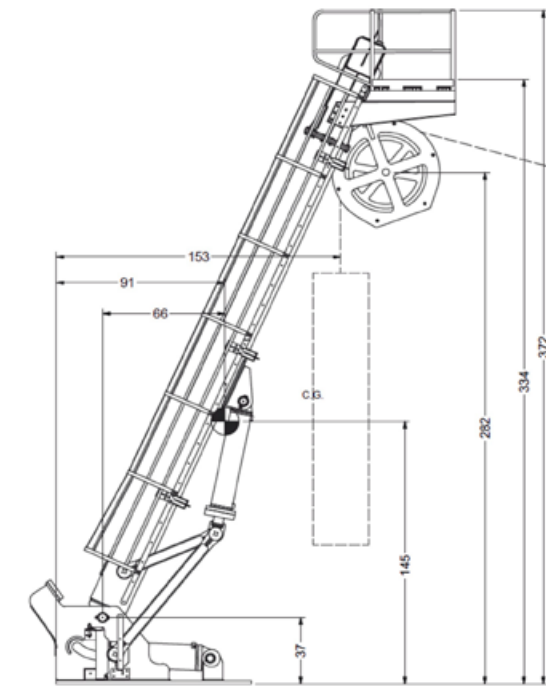
A-FRAME

- Safe static working load of 30,000 lbs
- Three padeyes for hanging blocks or chain (port, starboard, centerline)
- Hydraulic topping hoist
- 9/16" trawl wire or 0.680 electromechanical wire led from traction winch on 1st platform
 - 0.681 fibermechanical wire available
- Frame can be lowered to deck for maintenance mode, making block hanging easy

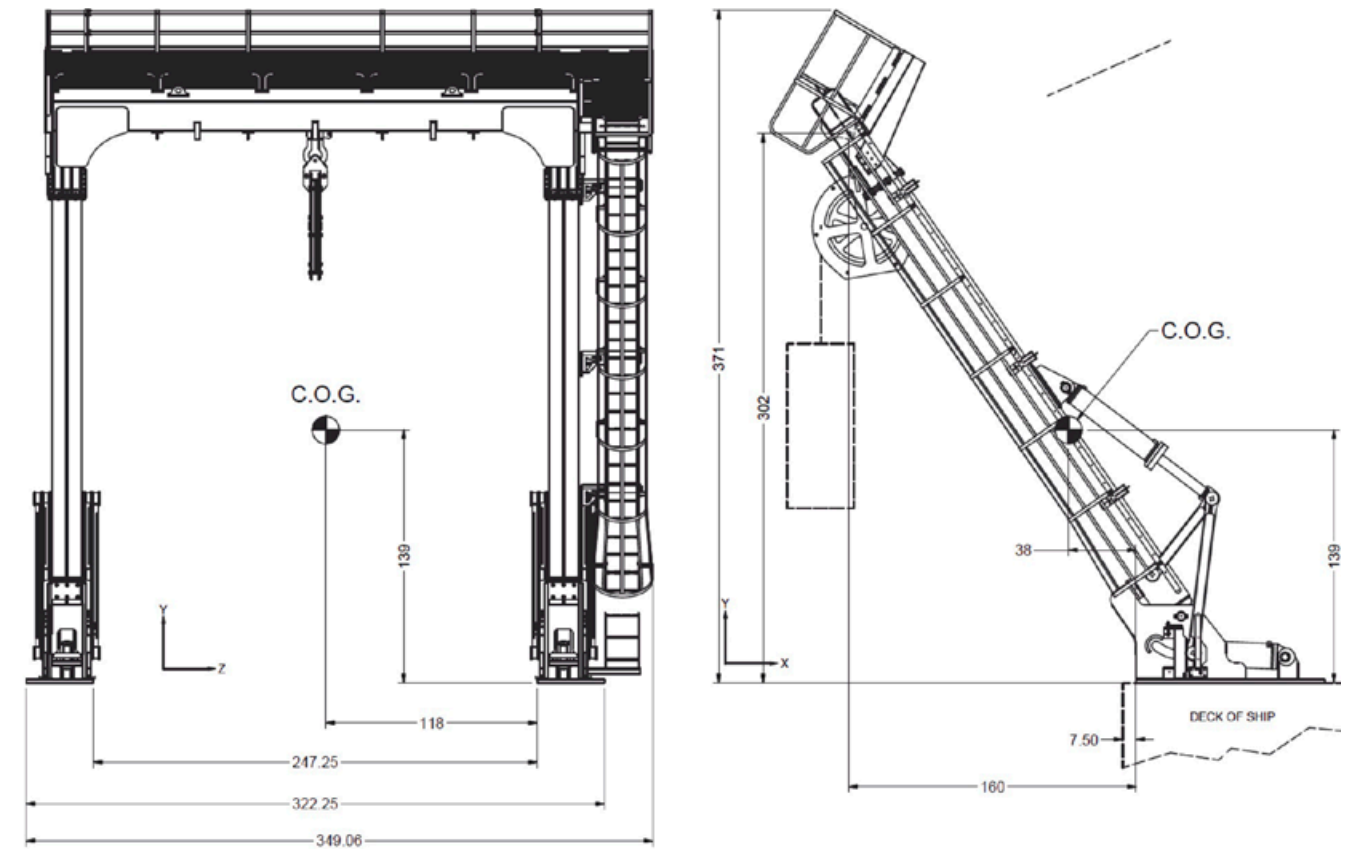
Maintenance Mode

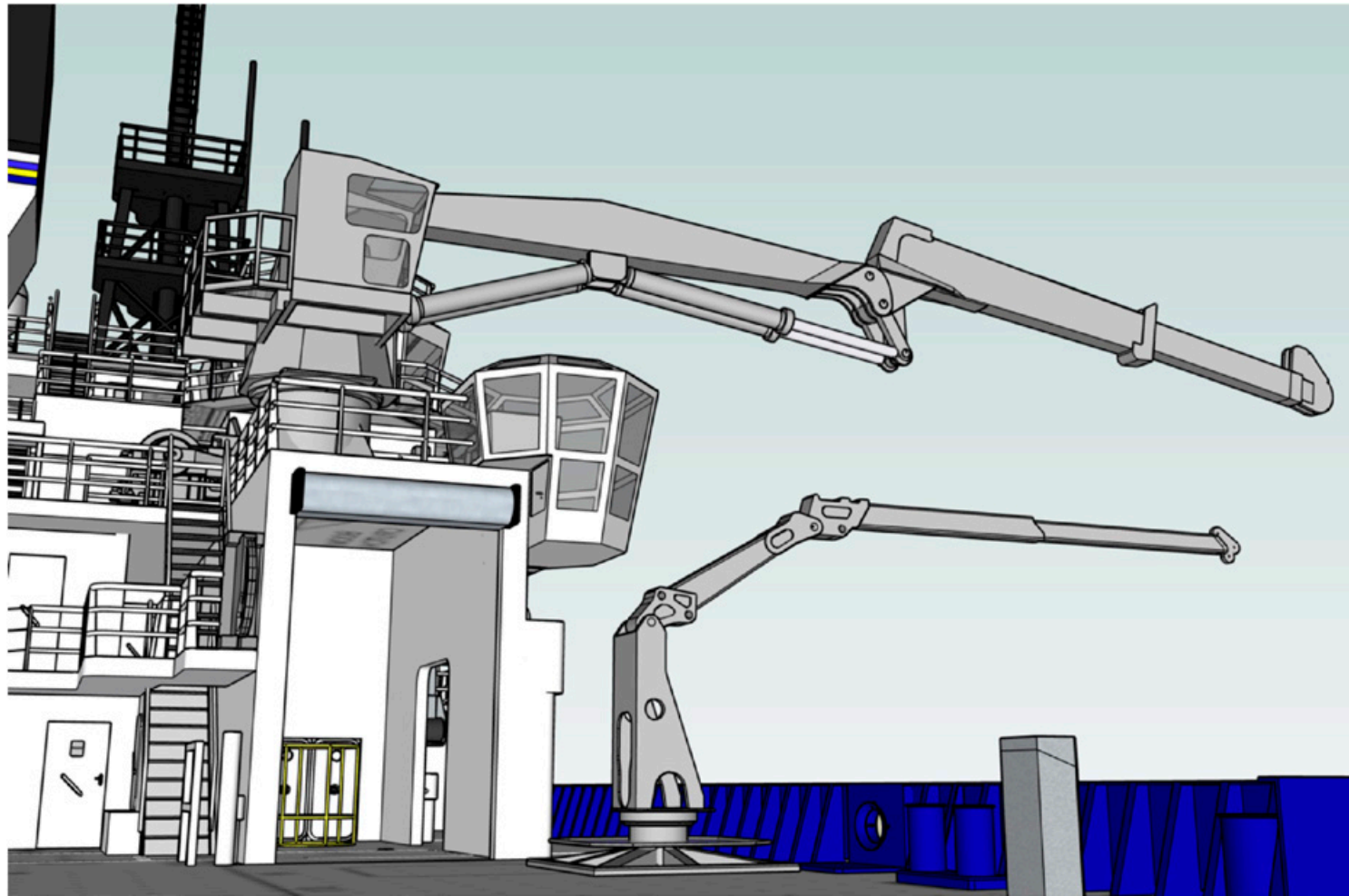


Inboard Position



Outboard Position





CRANES

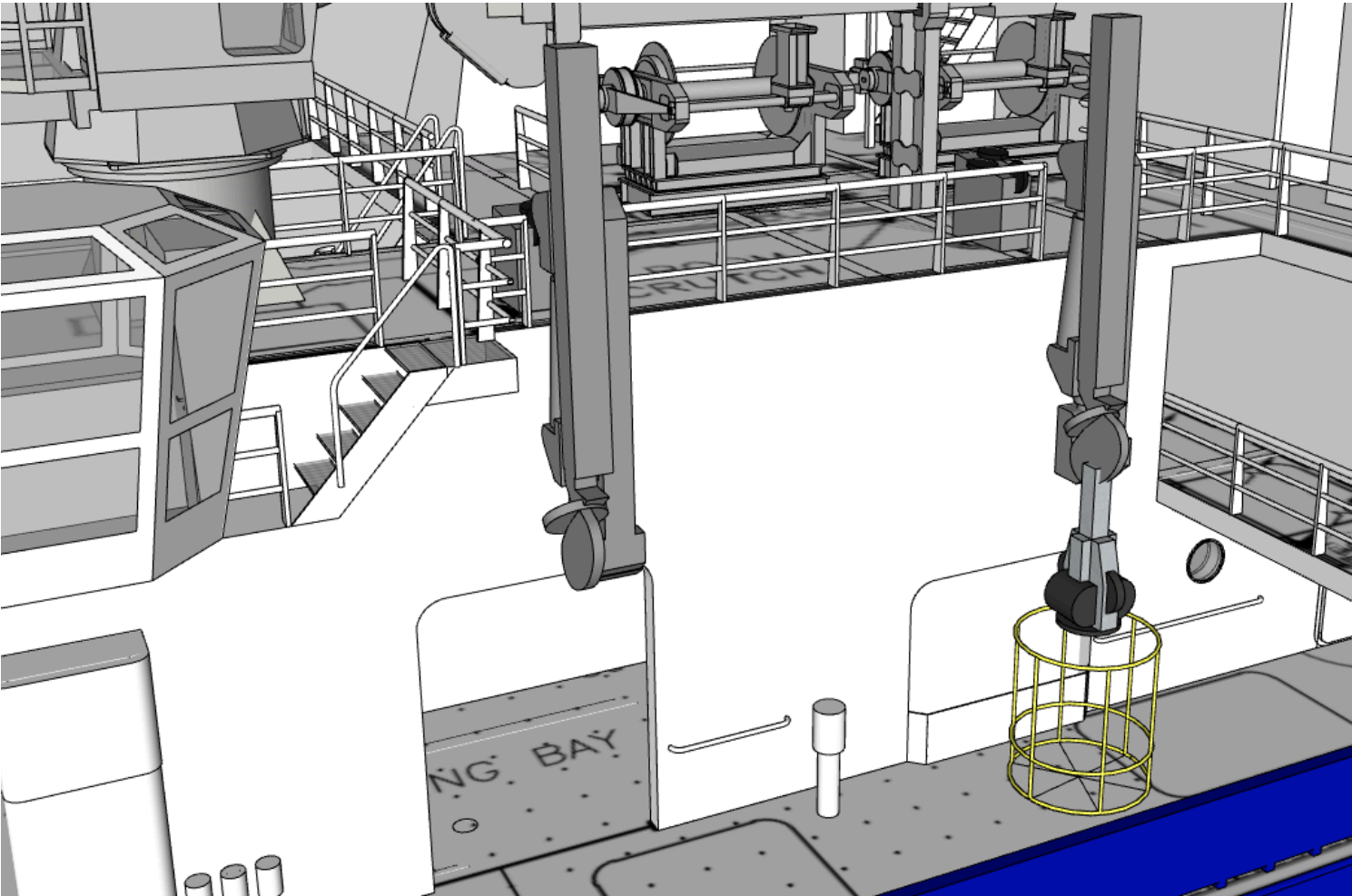
Two knuckle boom cranes aboard

Main Crane TK70-70

- 20,000 lb safe working load in port
- 70 ft reach

Portable Crane TK4-30

- 2,000 lb safe working load in port and at sea
- 30 ft reach
- Can be mounted on fantail or forward 01 deck



STARBOARD SIDE HANDLERS

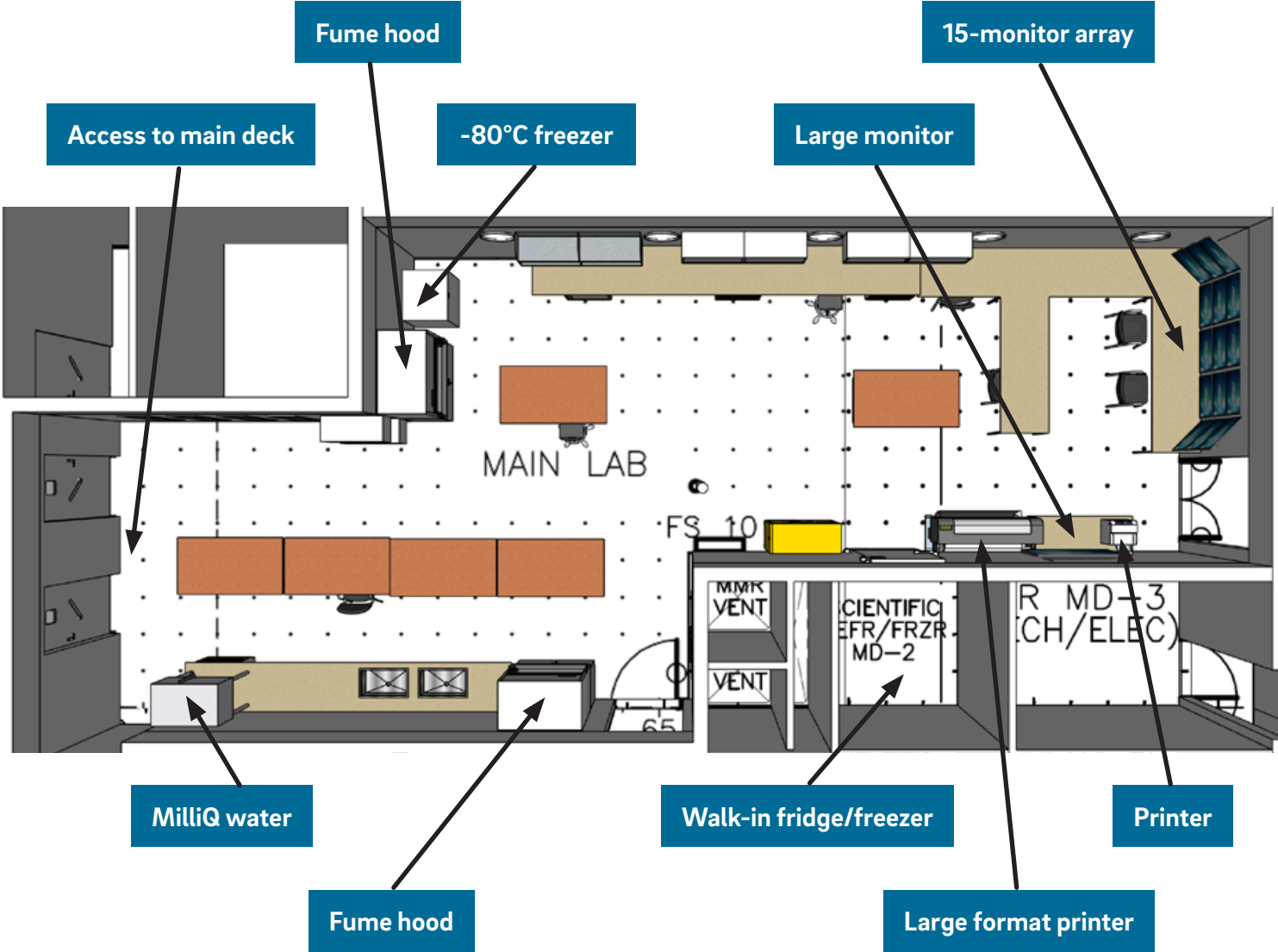
Aft Handler

- Approximately 10 ft clearance over bulwarks
- 3/8" trawl wire

Forward CTD Handler

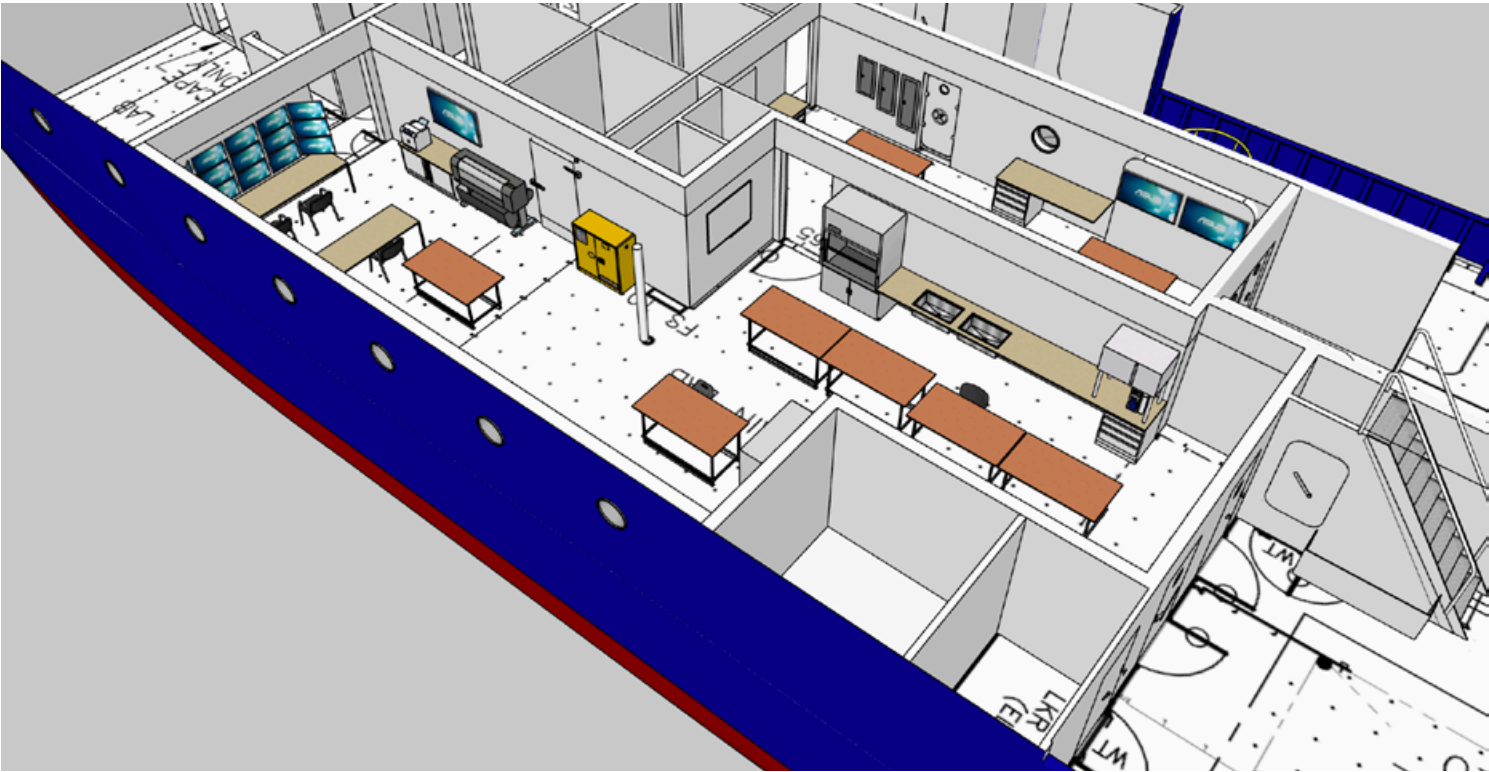
- Automated CTD launch and recovery system
- 0.322 electromechanical wire

MAIN LAB OVERHEAD VIEW

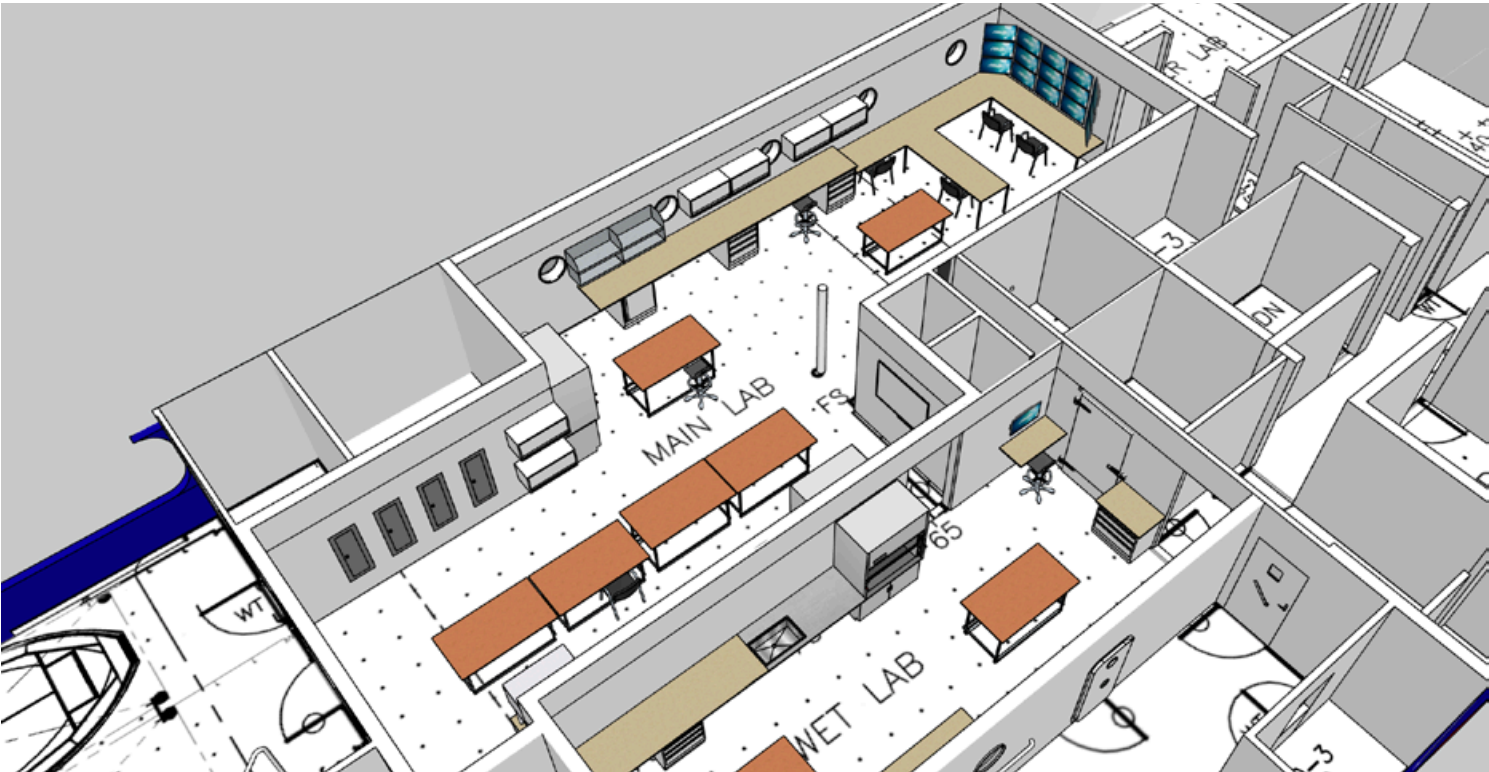


- 5 sets of nesting tables (configurable for 5-10 tables)
 - 2 fume hoods with chemical storage cabinets
 - 2 sinks (with uncontaminated seawater hookup)
 - Walk-in scientific refrigerator or freezer (down to -17°C)
- -80°C freezer (360 L capacity)
 - MilliQ purified water
 - 15-monitor display array
 - Large presentation monitor
 - Laser printer
 - Large format printer

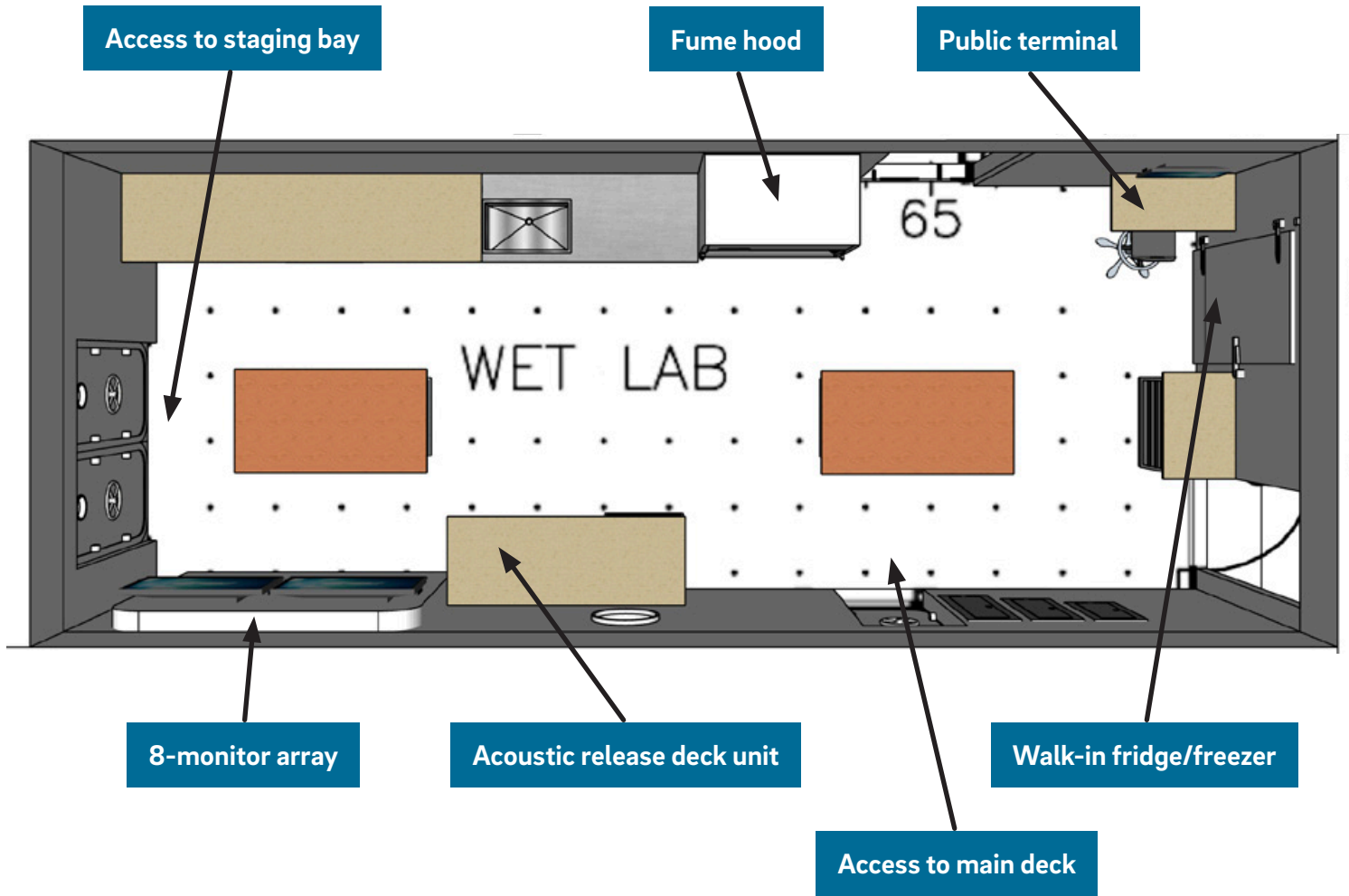
MAIN LAB PORT PERSPECTIVE VIEW



MAIN LAB STARBOARD PERSPECTIVE VIEW

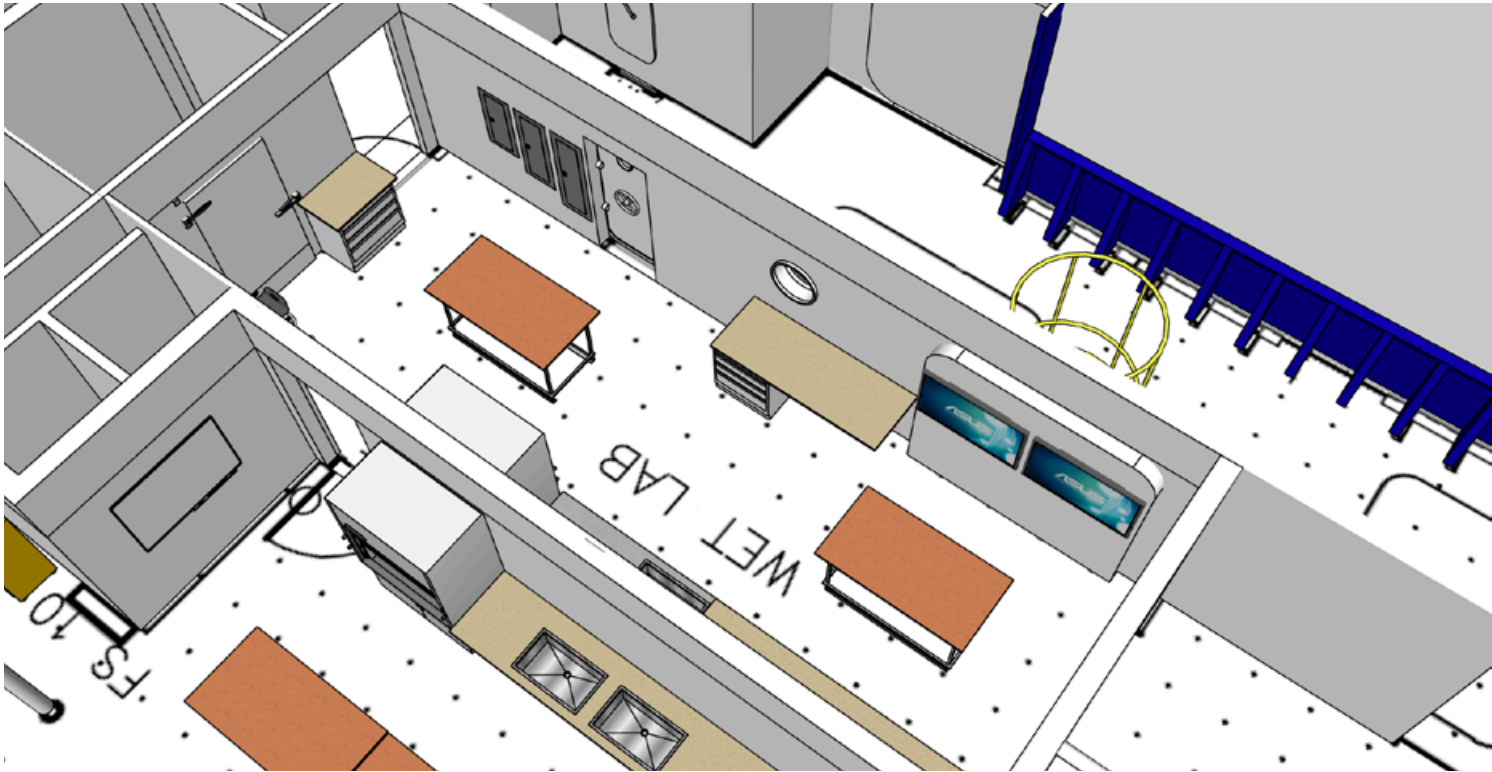


WET LAB OVERHEAD VIEW

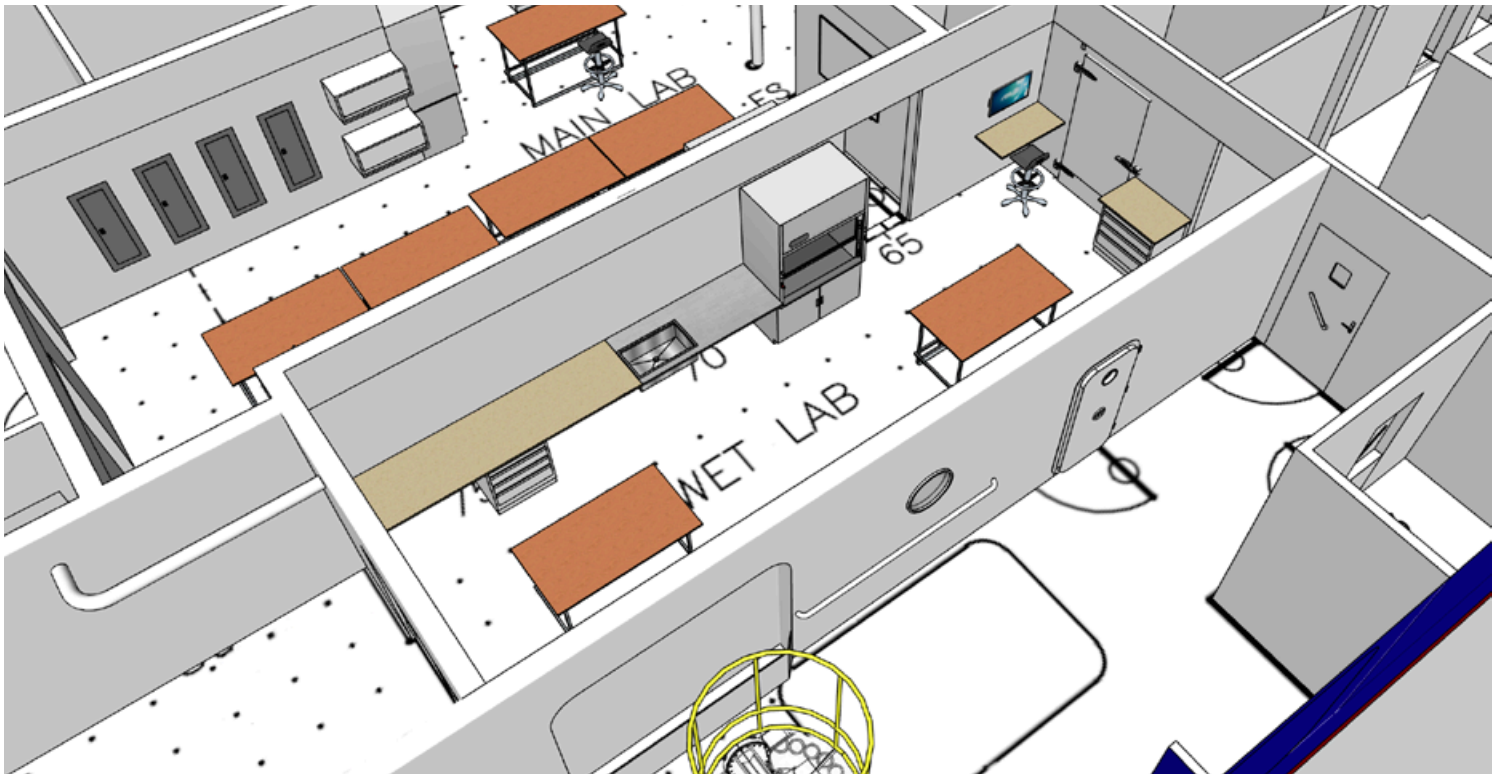


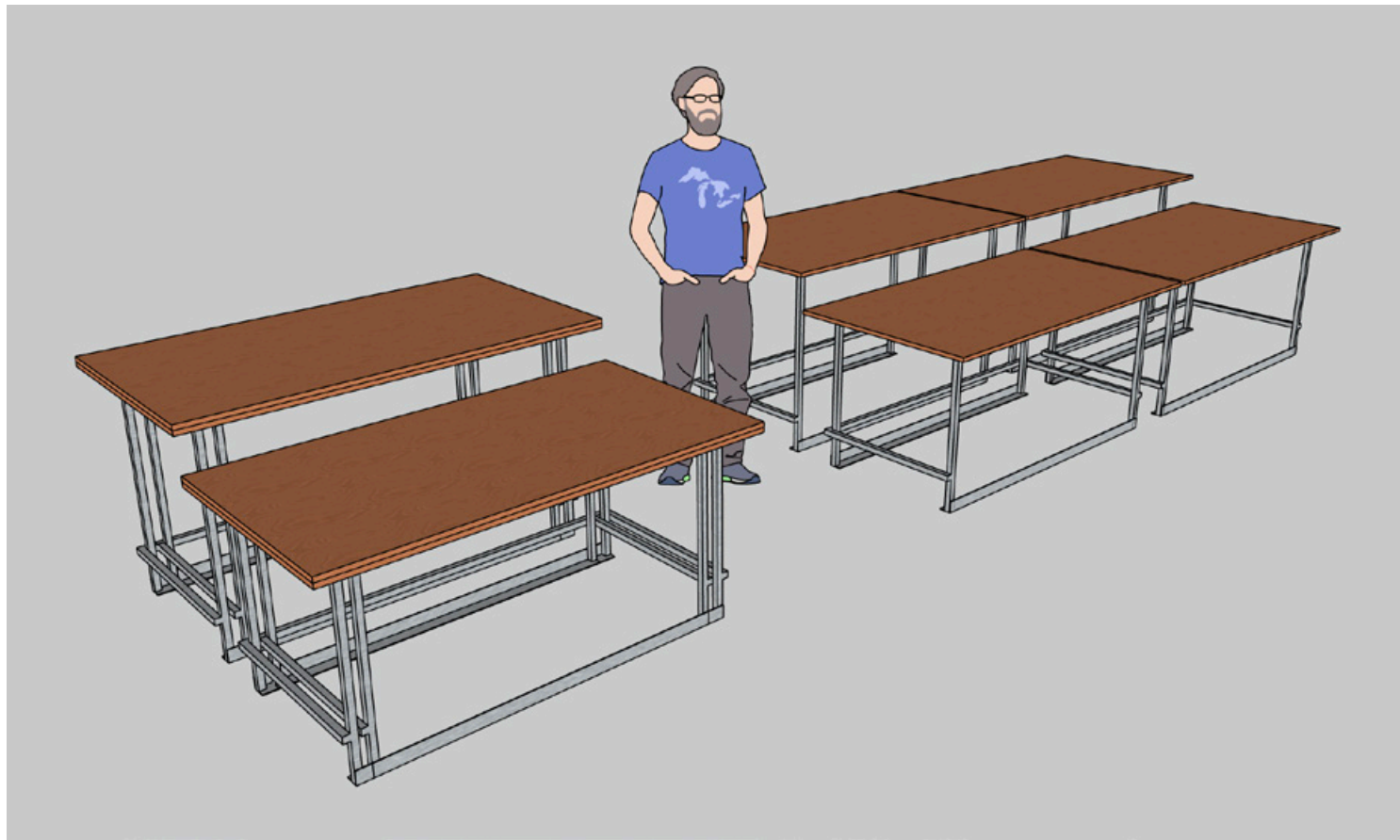
- 2 sets of nesting tables (configurable for 2-4 tables)
- 1 fume hood with chemical storage cabinet
- 1 sink (with uncontaminated seawater hookup)
- Walk-in scientific refrigerator or freezer (down to -17°C)
- 8-monitor display array
- Public computer terminal
- Universal acoustic release deck unit (12 kHz BNC connection also available)

WET LAB PORT PERSPECTIVE VIEW



WET LAB STARBOARD PERSPECTIVE VIEW

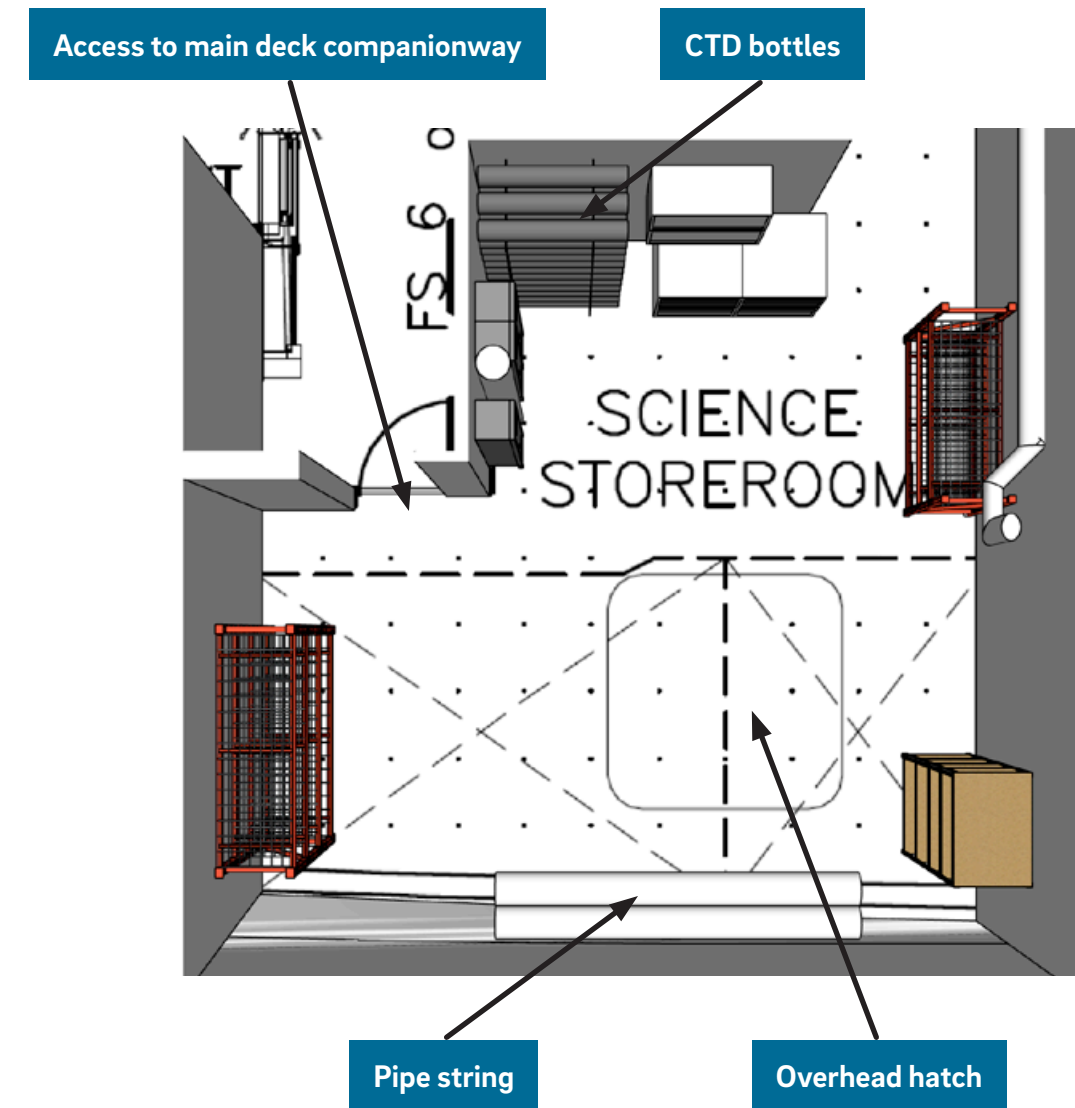




NESTING LAB BENCHES

- 2 lab tables can be nested to take up the space of just one bench
- 4 sets of high benches (36") are available (4-8 benches)
- 3 sets of low tables (29") are available (3-6 tables)
- Tabletops are 65"x 35"

SCIENCE HOLD OVERHEAD VIEW



- *Note* Storeroom has limited available space as instrumentation, CTD spares, deck hardware, scientific supplies etc. utilize this area. Contact the ResTech group for information regarding your specific storage needs.
- Located on 1st platform with overhead hatch to main deck
- Heavy duty shelving



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PRODUCED AND EDITED BY ANDREW NASLUND