

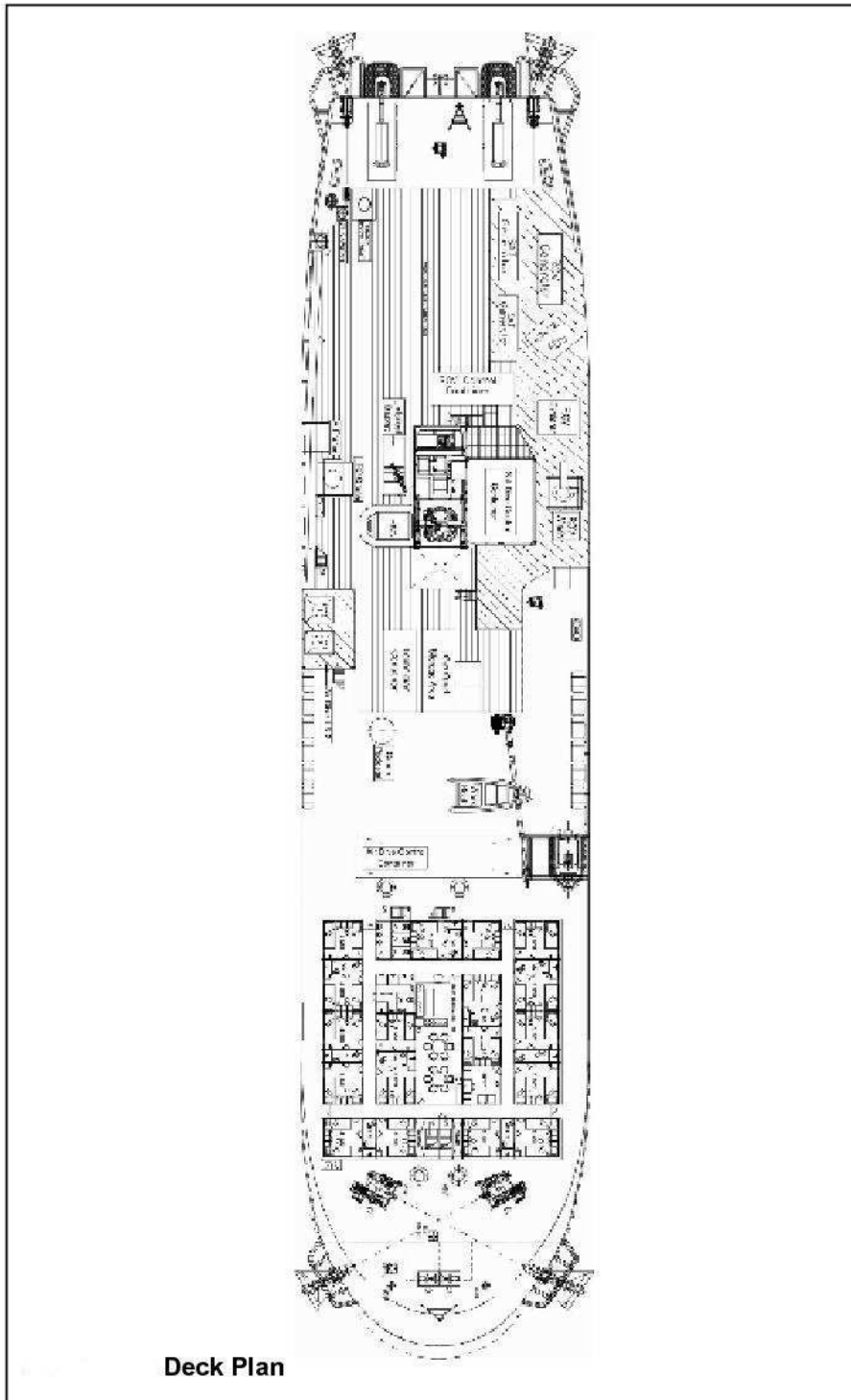
DP II DIVE SUPPORT VESSEL

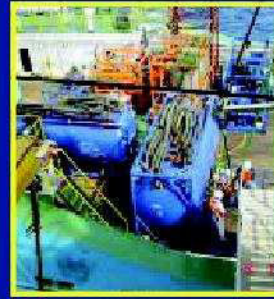
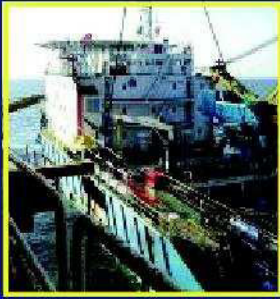


- DP II Construction Support
- 10 Man Saturation Diving System
- Central Moonpool
- 4 Point Mooring Capacity
- Heavy Lift Capability
- Built 2002 / Singapore



VESSEL SPECIFICATIONS





Vessel Specifications

DIMENSIONS

Length Overall:	89.0m
Breadth Moulded:	20.0m
Depth Moulded:	4.0m
Summer Draft:	2.8m
GRT/NRT:	3135/1105

MACHINERY

Main Propulsion:	2 x 1000 BHP Azimuth Thrusters Total 22T continuous thrust
Bow Thrusters:	2 x 500 / 1 x 1000 BHP CPP Diesel driven Brunvoll Tunnel Thrusters Total 16.5T continuous thrust
Generators:	4 x 335 kW, Scania DI 14 415/220v 50Hz
Emergency:	1 x 150 kW GM6-17T 415v 50Hz
Water Maker:	2 x 20 tonnes / day reverse osmosis
Sewage Treatment:	Red Fox RF0150
Oily Water Separation:	Taito Kikat UST-10

DYNAMIC POSITIONING

Control System:	Kondbesg Simrad SDP21
Positioning:	1 x Taut wire 1 x HiPap 1 x Fan Beam 1 x DGPS

4 POINT MOORING SYSTEM

Moorings Winches:	4 x 35 tonne electro-hydraulic single drum mooring winch with 1000 m x 38 mm dia. wire. Remote tension / cable length meters and CCTV monitors
Anchors:	4 x 5000 kg delta flipper high hold anchors with pennant wires / buoys

CAPACITIES

Fuel Oil:	1280 m ³
Fresh Water:	920 m ³
Potable Water:	840 m ³
Clear Deck Area:	Approx. 250 m ²

ELECTRONICS

Radar (2):	Furuno FR2125 + FR7112 (semi ARPA)
Magnetic Compass:	C Plath Type 2060
Gyro Compass:	C Plath Navigat x Mk1 Type no. 4914
Echo Sounder:	ELAC-LAZ 5000
GPS:	LEICA AP-MK12
Autopilot:	C Plath Navipilot ADII

REGISTRATION

Built:	2002 / Singapore
Port of Registry:	Kingstown
Class:	DNV DYNPOS AUTR Propulsion assisted Barge

COMMUNICATIONS

G.M.D.S.S. A3:	Sailor
SSB:	Sailor HC 4500
VHF:	Sailor RT 4822
Inmarsat:	Mini M
SART:	Jotron Tron
EPIRB:	Jotron Tron
Handheld VHF's:	Intrinsically safe Motorola GP 328
VSAT	Full Telephone Internet & Email / 24 hour coverage

DECK MACHINERY / CRANES

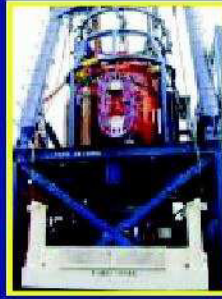
Main Crane:	Sumitomo SC2500 with auto heeling tanks (2 x 210 m ³) 45.75m boom / 71.00 Tons @ 12.00m 2T @ 12 m
Aux. Crane:	2 x 5T Hydraulic
Deck Tuggers:	2 x 3T Electro-hydraulic
Capstains:	1 x 1000 m x 38mm 35T with Danforth anchor
Stern mooring:	Electro-hydraulic 2 x 10 shots x 42 mm chain 2 x 1300kg stockless anchors
Anchor Windlass:	

ACCOMMODATION

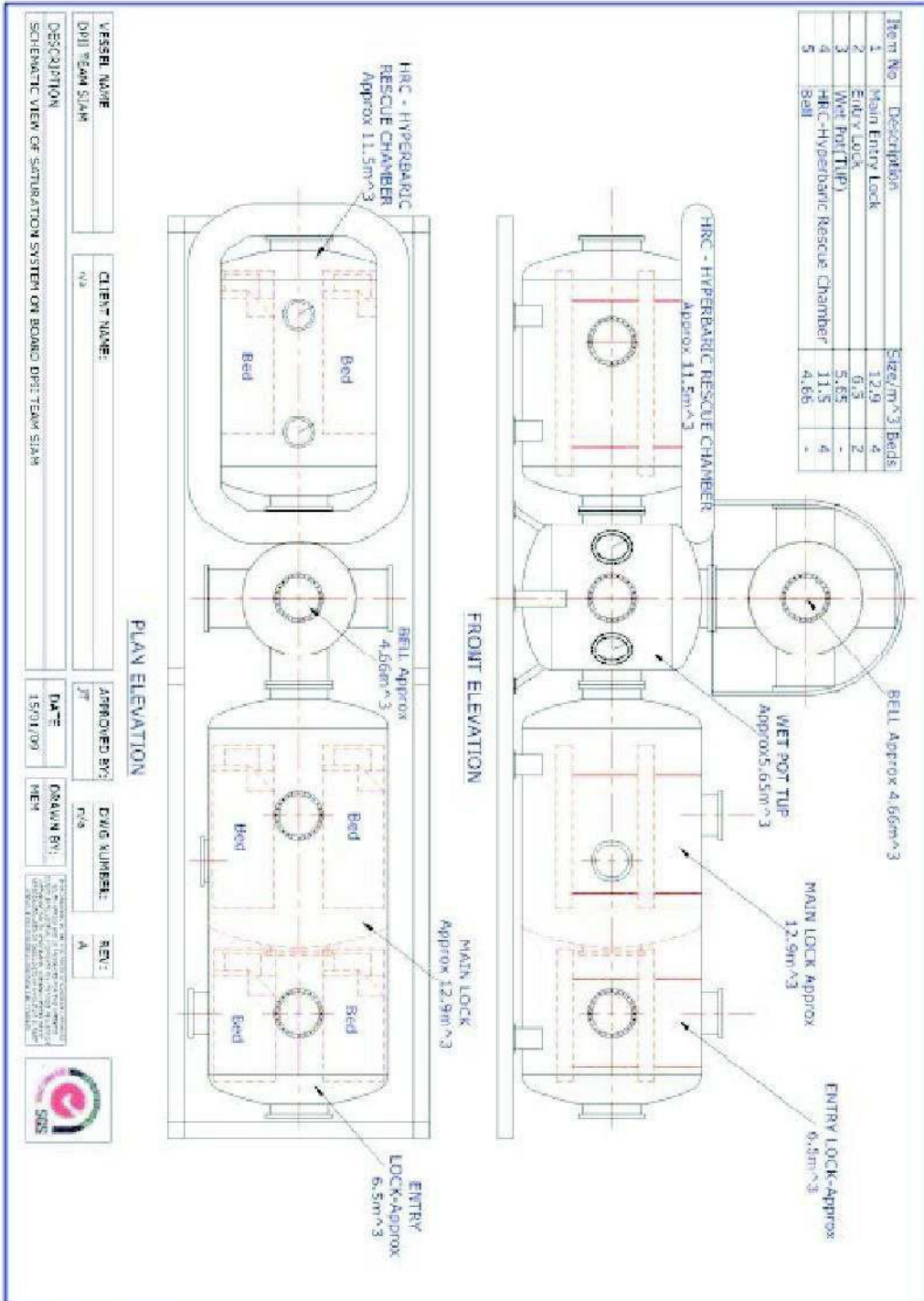
Total 135 berths - 46 crew, 89 pass.	
Cabins / Berths:	7 cabins @ 1 berth (All en-suite) 13 cabins @ 2 berths 22 cabins @ 4 berths 2 Cabins @ 7 Berths
Hospital:	1 x 2 berth
Conference Room:	For 12 persons
Offices:	5
Recreation:	3 x lounges, smoking room, helicopter reception area, A/C gymnasium

MISCELLANEOUS

Heli-pad:	Sikorsky S-76 rated 18m dia.
Fi-Fi 1:	2 x 1200 m ³ /hr remote joystick
Workshops:	2 x 30 m ²
Moonpool:	3 m x 4m with flush hatch
Liferafts:	12 x 25 man (300 persons)
Saturation System:	10 man



SATURATION SYSTEM SPECIFICATIONS





Saturation System Specifications

The Saturation System is a 300 metre rated, fully IMCA compliant saturation diving system with accommodation for up to 10 people in 3 compartments, and 12 man hyperbaric rescue chamber (HRC). The system utilizes a three man bell and maintains a good degree of portability, allowing deployment from a range of vessels and barges. The system was extensively rebuilt in 2004, with many new major components including reclaim and handling systems, dive and sat control systems and support equipment.

System Configuration:

DIVING BELL: 4.68 m³ diving bell bottom or side mounting with single castellated door, fitted 3 x 55 m excursion umbilicals and all necessary life support equipment.

MAIN CHAMBER: 19.5 m³ twin lock (4+2 man), internal dimensions 5.5 m x 2, 134 m diameter, 2x medical lock, toilet, shower.

HYPERBARIC RESCUE CHAMBER: 11.5 m³ 4 man living chamber doubling as hyperbaric rescue chamber for 12 people with all necessary flotation, onboard gas support equipment, medical lock and external supply interfaces.

TRANSFER LOCK (TUP): 5.6 4 mating flanges (3 side, 1 top), for connection to other system elements. Fitted with shower and toilet facilities.

LAUNCH AND RECOVERY SYSTEM: 'A' frame type launch system, comprising 10,000 kg rated and hydraulically controlled 'A' frame with bell, clump weight and umbilical guides. Hydraulic power pack with double pumps, supplying 'A' frame and winches. Main winch is 10,000kg swl man riding winch with main and back-up hydraulic motors, back-up / clump weight winch is 6,000 kg swl with main and back-up hydraulic motors.

CONTROL ROOM: 5.1 x 6.1 m double shipping container, fully air conditioned and insulated and fitted with separate diving and saturation control areas, in addition to office space. Shack is designed with clear views over bell launch and recovery areas and CCTV coverage of all key work and system areas and is fully equipped with all gas monitoring, and other life support equipment.

MACHINERY ROOMS: 5.1 x 6.1 m double shipping container, containing: electrical switchboards and controls, 4x Environmental Control Units (ECU's), 2 x divers hot water machines, system hot and cold water systems, gas reclaim compressor and support equipment, workbench, storage and sundry plant items.

GAS STORAGE: System storage comprises rack and manifolded gas supplies as follows: 12 x 8 metre tubes @ 1400 litre capacity / 200 bar, 6 x 5 metre tubes @ 1000 litre capacity / 200 bar, 32 x 5 metre tubes @ 500 litre capacity / 200 bar. Total free gas storage – 7,760m³

ADDITIONAL ITEMS: 200 m main bell umbilical with storage cage and hydraulically powered recovery sheave, 1500 kg clump weight with tool storage, full supporting equipment pack including main and back-up generators and comprehensive spares package.



ROV SPECIFICATIONS

The Explorer 03 is a fully versatile deep water (1,000 metre) advanced class survey R.O.V. which is available as a 'freeboat' system. The Vehicle dimensions are 3.4m x 1.7m x 1.95m and weighs 2800kg in air, incorporating six hydraulically powered thrusters. Each thruster delivers typically 250kg thrust with infinitely variable control via a single Joystick. The thrusters are configured 4 x vectored and 2 x vertical and are effective in currents of up to 3,0kts, dependant on depth and turbidity conditions. The vehicle also has a pay load capability of 150kg dependant on configuration. Vehicle power requirements are 3 phase at 60 Hertz / 440 VAC / 350 KVA.

- **Length 3.4m x Width 1.7m x Height 1.8m — Weight 2.8 tons**
- **100 Hp. Hyd. Power Pack c/w 6 x Thrusters—Vectored**
- **1000m Depth Rated**
- **1 x 5 & 7 Function Manipulators**
- **1 x SIT B/W Video Camera Pan & Tilt Mounted**
- **1 x Colour Video Camera Pan & Tilt Mounted**
- **1 x Underwater Lighting System 1500 Watt Variable Intensity**
- **1 x High Resolution Sector Scanning Sonar System**
- **1 x H.P. / L.P. Tooling Ports**
- **1 x Advanced Class Survey Junction Box — Fibre Optic Interface**
- **1 x Fluxgate Directional Gyro Compass**
- **1 x Depth Heading Pitch & Roll Facility**

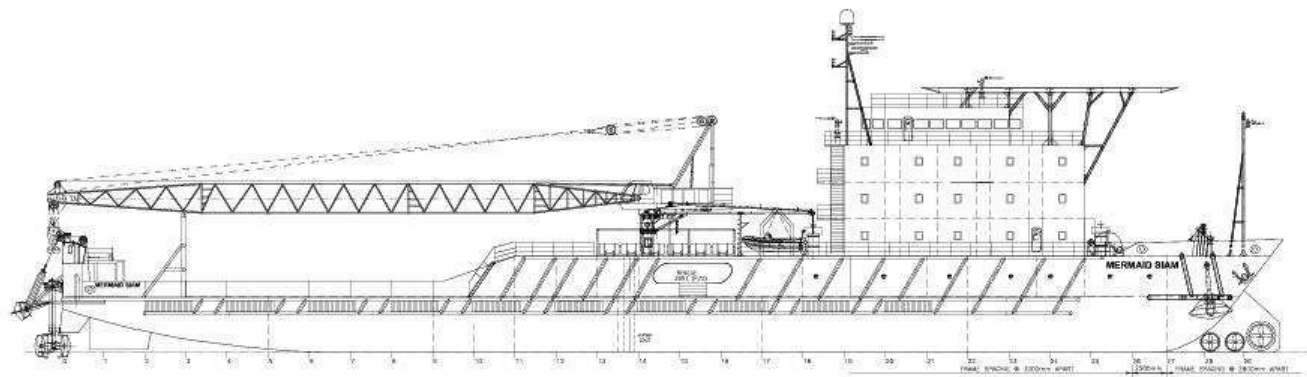
Vehicle Control is achieved using a 96 Channel Multiplex System and incorporates Auto/Manual Depth Control, Auto/Manual Heading Control, Pitch and Roll status and Hydraulic temperature/pressure status, all of which can be displayed on the pilot monitor.

CONTROL CABIN: The Control Cabin houses all system control and power supply. The upright rack mountable system features a desk for pilot, co-pilot with an option for tool or survey console. The fully integrated video suite is a standard fitment and provides video switching, 8 x colour monitors and 6 x S.VHS V.C.R.s.

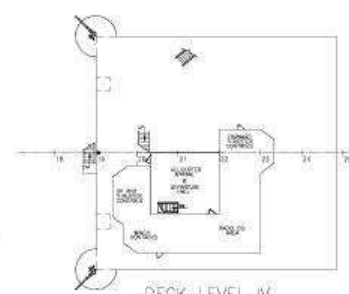
WINCH: The Winch is electro-hydraulically powered with integral power pack, complete with an umbilical capacity of 1000m. It has a pull capacity of 5300kg and a proportional control payout/recovery rate of 40m/min max. The system is fitted with both static and dynamic brakes to prevent over running the load or free-fall.

LAUNCH /RECOVERY CRANE: Effer 40 T/M marine crane, with vehicle docking mechanism and recovery winch, crane capacity is matched to fully configured vehicle launching operations at a radius of up to 7.9 metres.

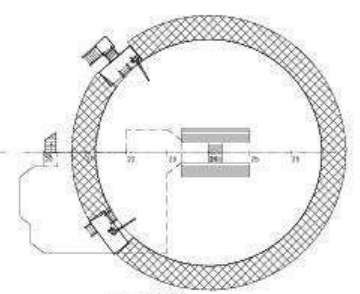




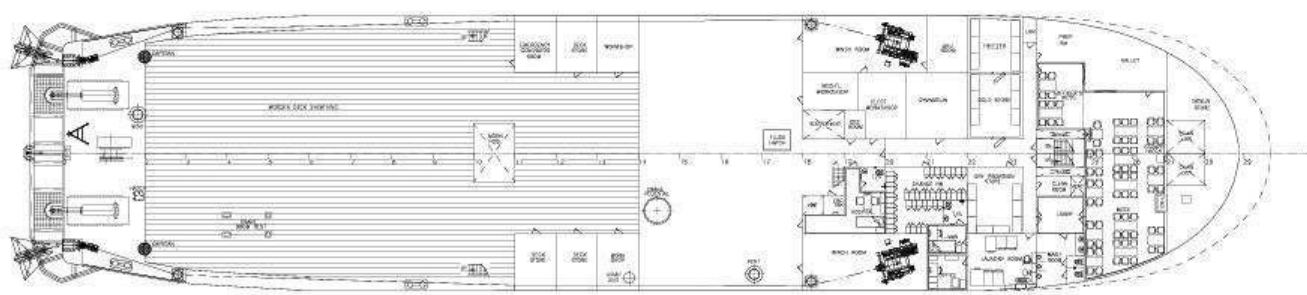
PROFILE



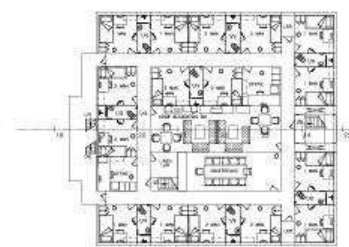
DECK LEVEL IV



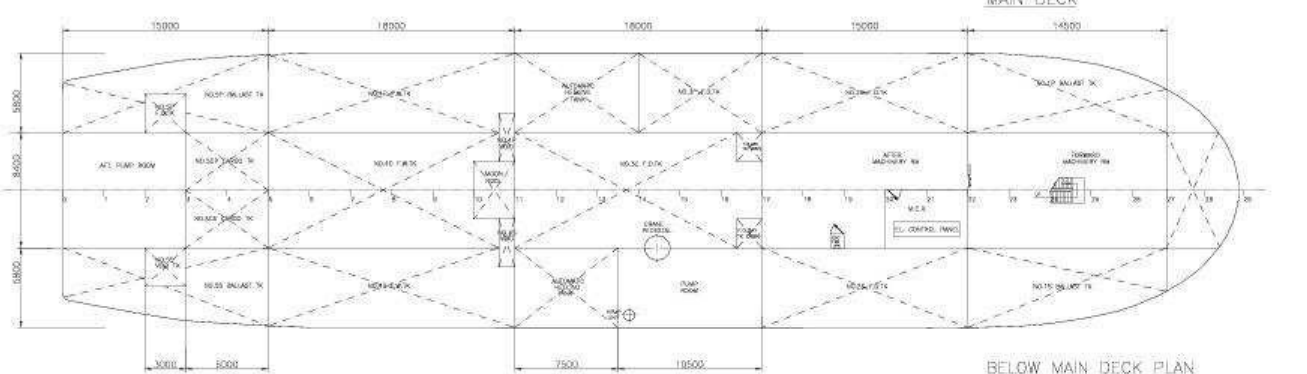
HELIDECK



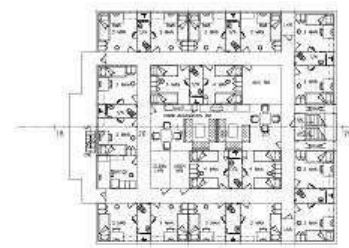
MAIN DECK



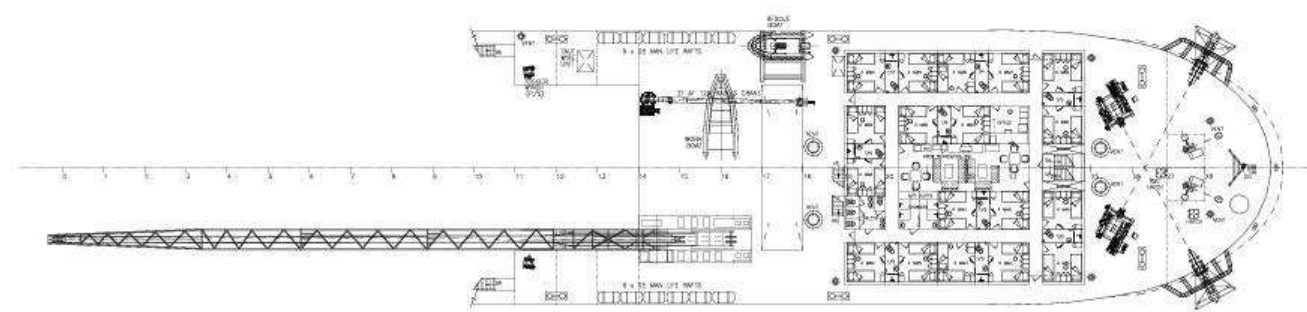
DECK LEVEL III



BELOW MAIN DECK PLAN



DECK LEVEL II



DECK LEVEL I









COMBINATION LOCK

SAFETY IN USE























