

49.90 m / 3120 BHP / Dive Support Vessel with Telescopic Crane



DISCOVERY



Atlantic Maritime Group FZE

www.atlanticnavigation.com

GENERAL PARTICULARS

Year of Build / Place	: 2010 / KSA
IMO Number	: 9561136
Call Sign	: T2WZ5
Flag / Port of Registry	: TUVALU / FUNAFUTI
Class	: ABS
Notation	: ⚠ A1, Ⓢ, ⚠ AMS, Additional Notation, CRC
GRT / NRT	: 1064 / 319
Vessel Manager	: Atlantic Maritime Group

DIMENSIONS

Length OA	: 49.90 m
Length BP	: 46.00 m
Breadth	: 12.20 m
Depth	: 4.50 m
Design Draft	: 2.50 m
Displacement @ Design Draft	: 948.00 T
Deadweight @ Design. Draft	: 317.50 T
Lightship	: 630.98 T

MACHINERY

Main Engine	: 2 x Wartsila 6L20 @ 1000 RPM, In Line engine Total: 3120 BHP; 2328 kW
Gear Box	: 2 x REINTJES WAF 843L; Vulkan Coupling – L4311
Main Generator	: 3 x Caterpillar Marine C9, 175 ekW, 440 V, 60 Hz
Emergency Generator	: 1 x Caterpillar Marine C4.4; 58 ekW, 440 V, 60 Hz
Propellers	: 2 x FPP; 75" Dia x 68" Pitch x 5 Blade x 105 % DAR
Rudders	: 2 x Spade Type (Free Hanging Type)
Steering	: 2 x Fully Follow Up Power Steering @ 35 deg Rudder Angle
Bow Thruster	: 1 x Omega Azimuth Channel Thruster; 283 kW @ 1800 RPM Driven by Diesel Engine CAT C12, 286 kW @ 1800 RPM
Stern Thruster	: 1 x Omega Fixed Pitch Tunnel Thruster; 200 kW @ 1800 RPM Driven by Diesel Engine CAT C12, 254 kW @ 1800 RPM
Sewage Treatment Plant	: 1 x WWT 3 Bio pure; Cap. 42 PAX – 2.6 m3 / hr @ 1.6 Bar
Oily Water Separator	: 1 x OWS; RWO SKIT S DEB; Capacity – 1 m3 / hr
Fuel Oil Purifier	: 1 x Alfa Laval, MAB 130

FIRE FIGHTING & SAFETY EQUIPMENT

Fixed CO2 System	: Engine Room, Diving Compartment & BT room
Rescue Boat & Davit	: 1 x 6 Pax (Open Type) & 14 kN Single Arm Davit
Life Rafts	: 4 x 25 Pax (Inflatable – Throw Type)
Life Buoys	: 8 Nos
Fire Hydrant	: DN40 x 15 Nos
Life Jackets	: 40 Nos

DIVE SUPPORT EQUIPMENT

2 x Diver Panel in Dive Control to outlook over the deck. Deck Video available to assist the dive Supervisor. Twin Lock DDC in Air-Conditioned Space – 2 HP Air Diving Compressors (1 Elec & 1 diesel), 2 x Electric LP Diving Compressors; 2 x HP Air Banks; Diver tool Air compressor & 2 x Welding machine (1 Elec & 1 diesel)

CAPACITIES & PERFORMANCE

Fresh Water Tank	: 244.00 m3
Fuel Oil Tank	: 126.40 m3
Ballast Water Tank	: 103.10 m3
Lube Oil Tank	: 12.10 m3
Sewage Holding Tank	: 3.40 m3
Dirty Oil Tank	: 5.60 m3
Bilge Holding Tank	: 5.60 m3
Fresh Water Cargo Pump	: 1 x 45 m3 / hr @ 30 m Head
Fuel Oil Cargo Pump	: 1 x 12 m3 / hr @ 20 m Head
Fire & GS Pump	: 2 x 50 m3 / hr @ 40 m Head
Emergency Fire Pump	: 1 x 25 m3 / hr @ 60 m Head
Deck Cargo Space	: 110 m2
Design Deck Load	: 5.0 T / m2
Deck Cargo Capacity	: 60 T
Speed	: 12.0 knots @ 100 % MCR 10.0 Knots @ 85 % CSR
Fuel Consumption	: 13.00 m3 / day @ 100 % MCR 10.00 m3 / day @ 85 % CSR

DECK MACHINERY & EQUIPMENT

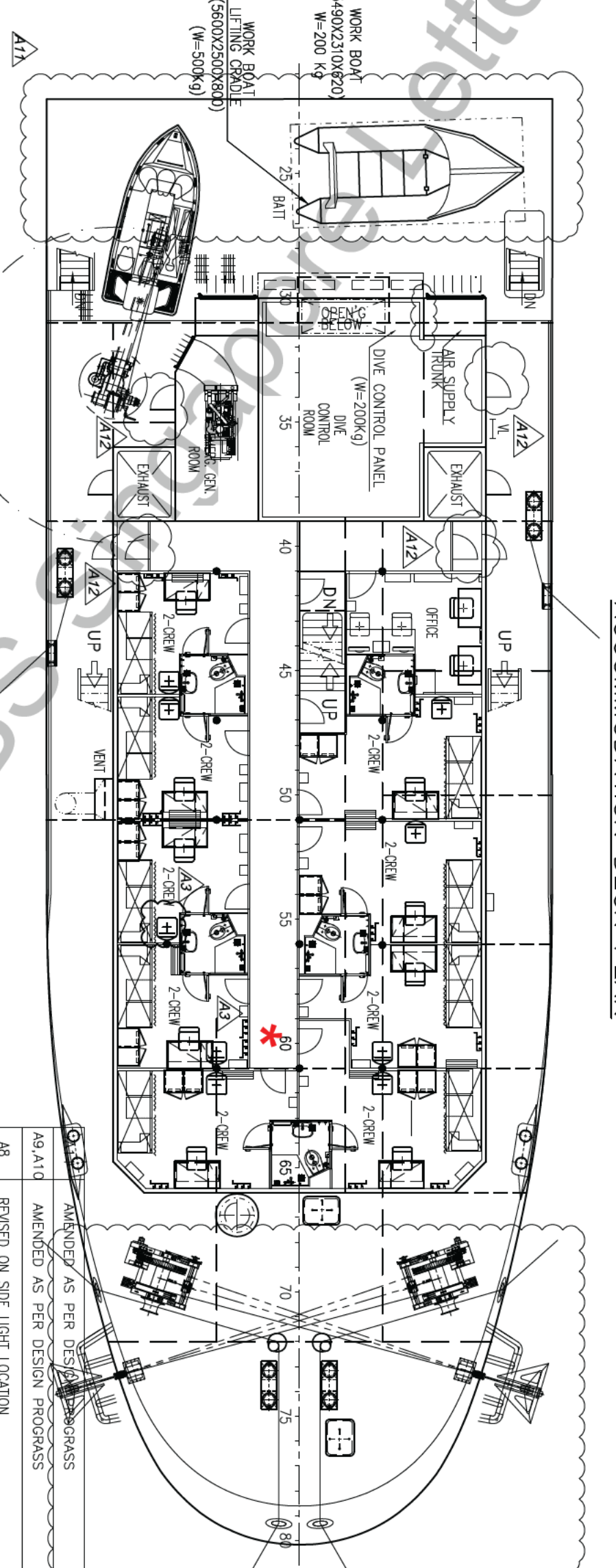
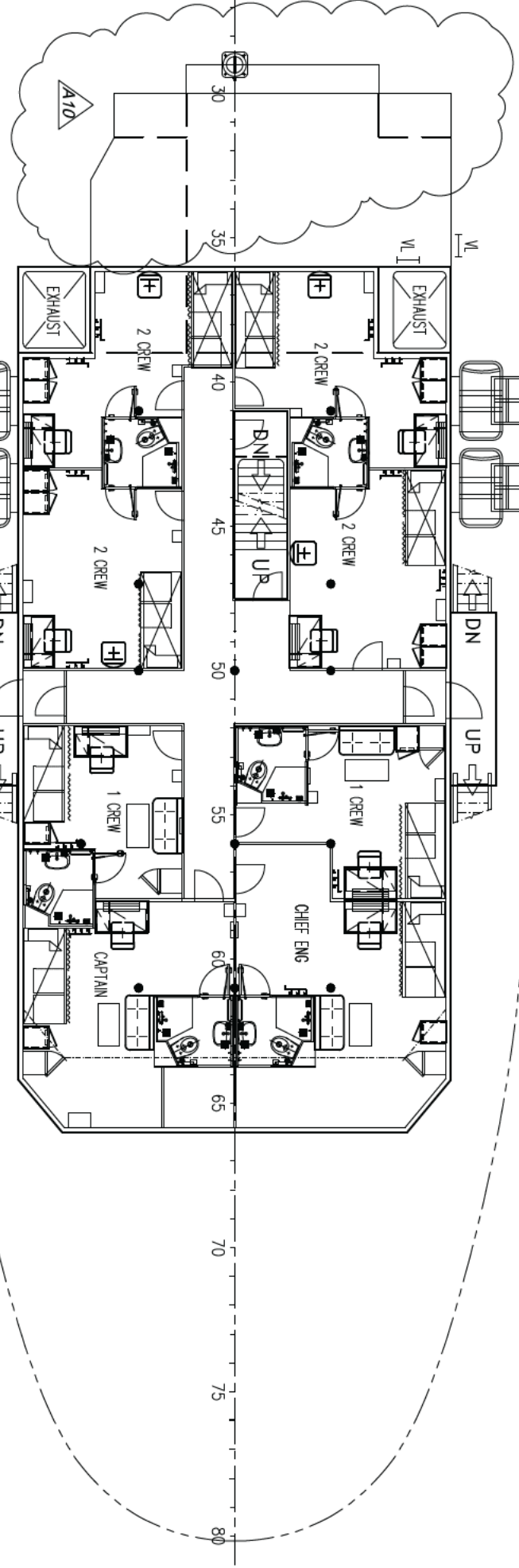
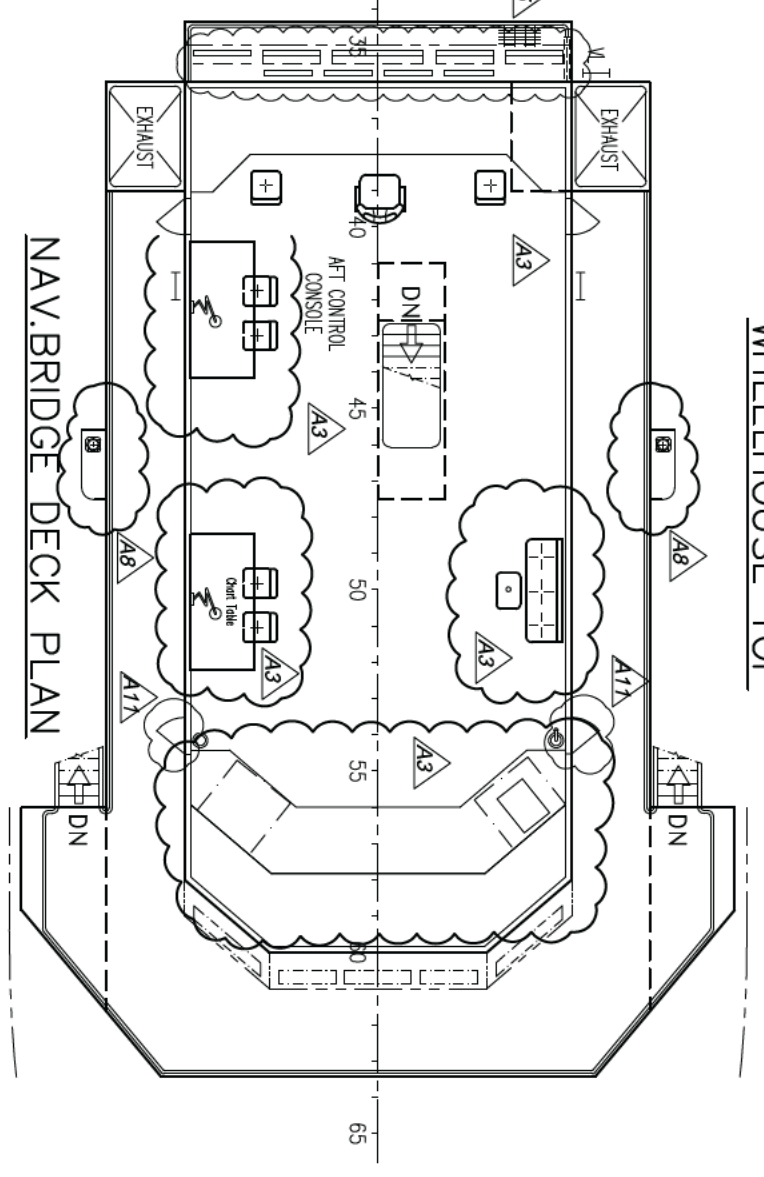
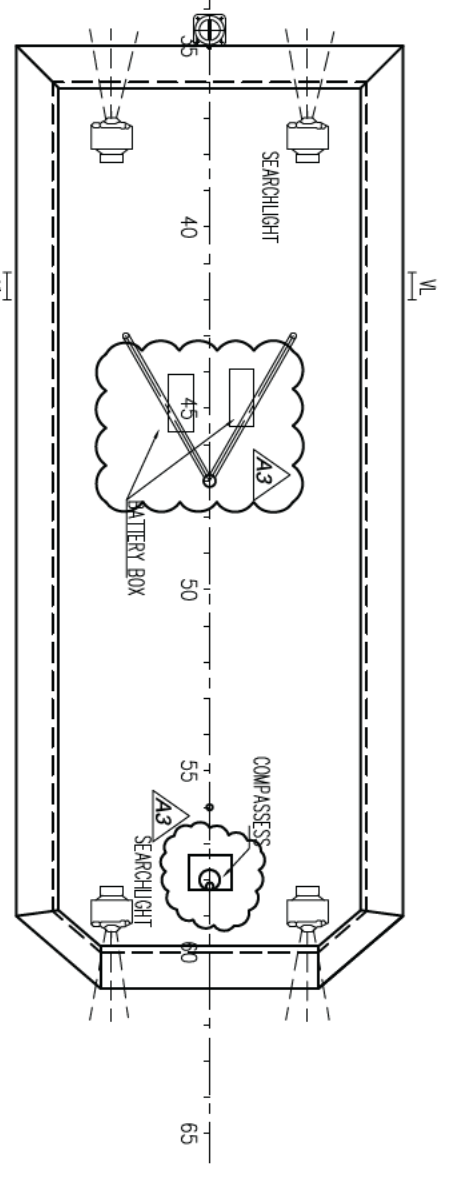
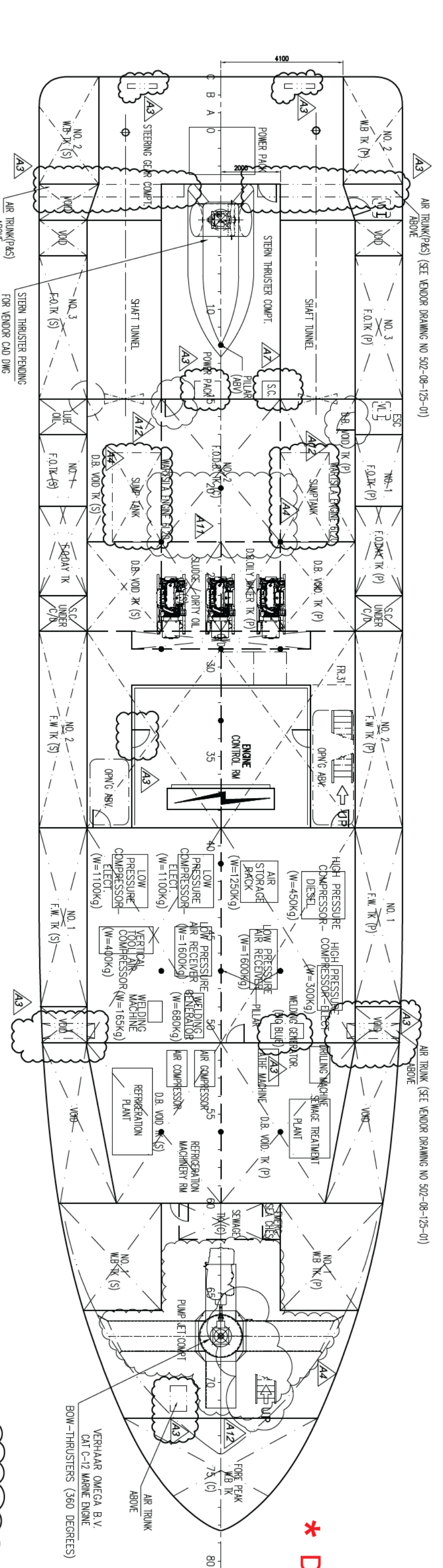
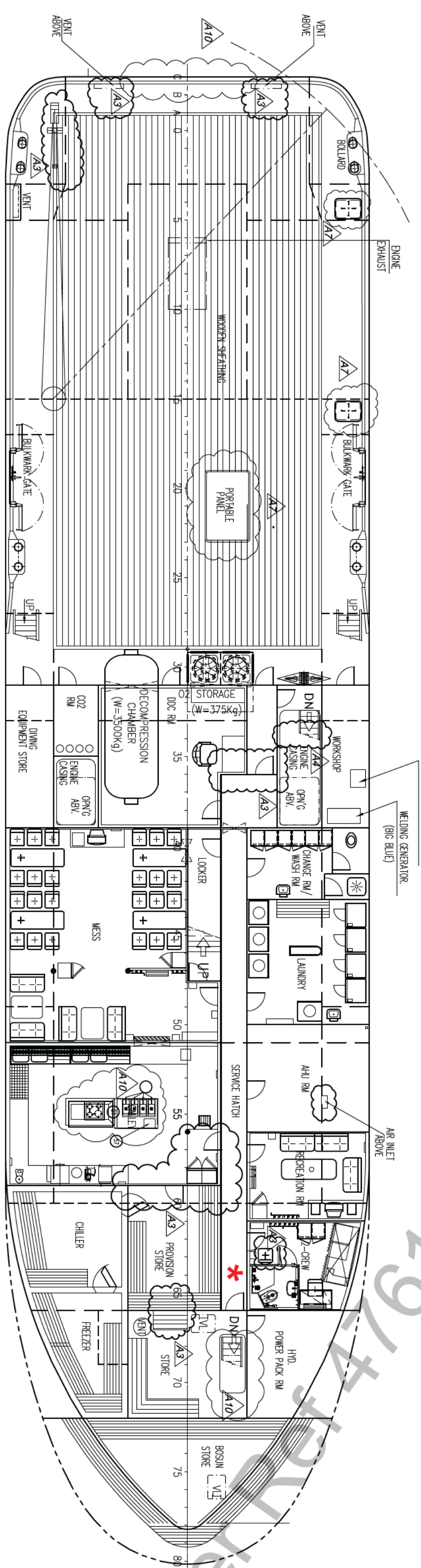
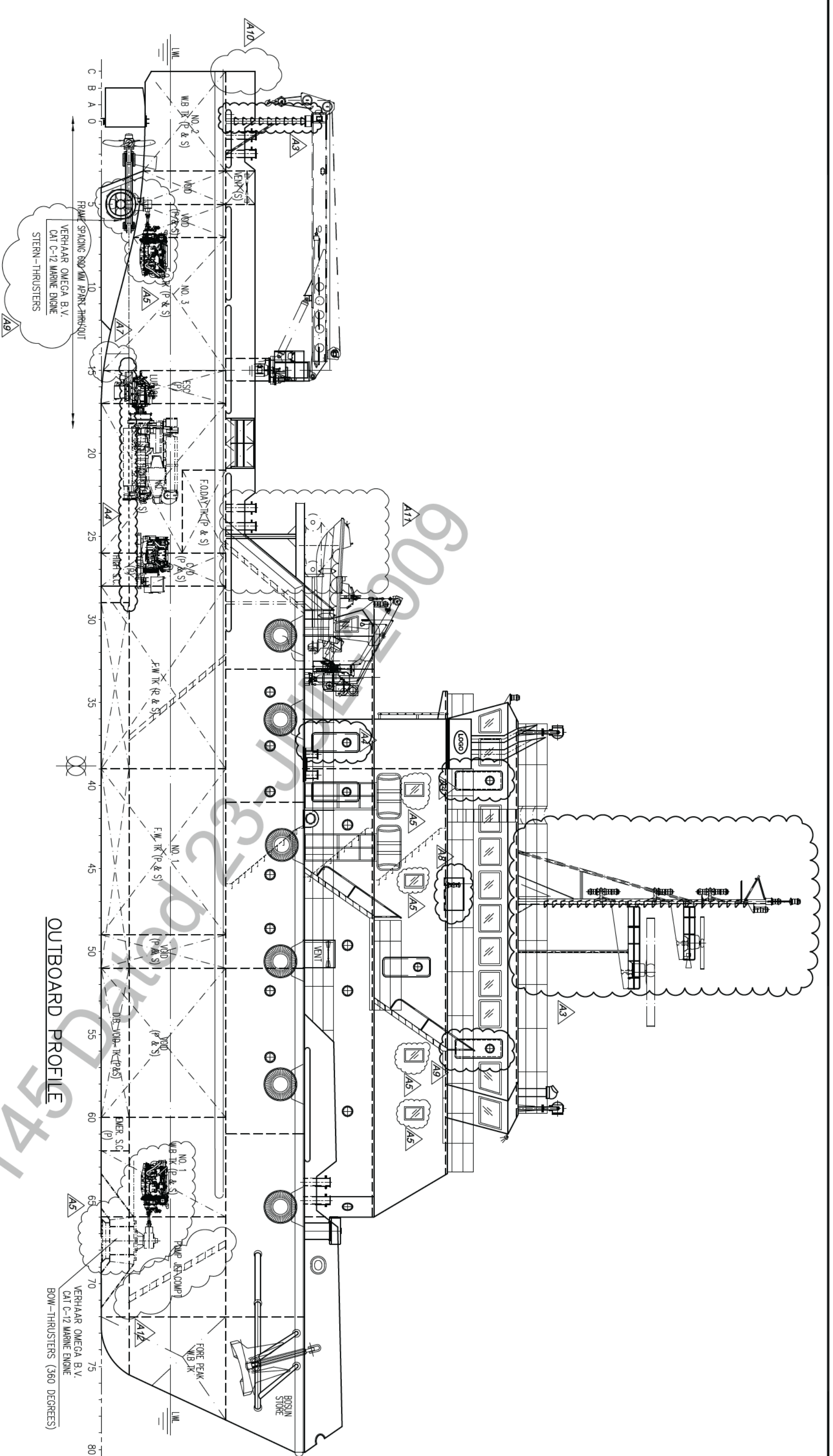
Deck crane	: 1 x NOR Crane; Hydraulic telescopic Crane SWL: 10 T @ 8 m
Anchor Winch / 3 Point Mooring	: 3 x NOR Winch; Electrohydraulic Winches. 10T Pull @ 15 m / min: 32 mm x 600 m Wire
Anchor	: 3 x 1360 KG Danforth Anchors

NAVIGATION & COMMUNICATION EQUIPMENT

Fixed VHF	: 2 x Simrad; AXIS 50 GMDSS
GMDSS (A1+A2+A3)	: Yes
Radar	: 2 x JRC JMA 5312
GPS	: 1 x Navigation GPS
Echo Sounder	: 1 x JRC JFE 680 with repeater
Navtex Receiver	: 1 x JRC NCR 333
Auto-Pilot	: 1 x SIMRAD – AP 50
Gyro Compass	: 1 x SIMRAD – GC 80
Magnetic Compass	: 1 x Magnetic Compass
Inmarsat-C	: 1 x Inmarsat C
SSB Transceiver	: 1 x SSB
SART	: 2 x Mc Murdo; S4 Rescue
EPIRB	: 1 x ARC; RLB-41
AIS	: 1 x JRC JHS - 182
Satcom	: 1 x Marlink

ACCOMMODATION

1 Man Cabin	: 5 Nos
2 Man Cabin	: 9 Nos
3 Man Cabin	: 1 Nos
4 Man Cabin	: 4 Nos
Total	: 42 Person



* Dead-end Corridor is not Permitted. Please Revise.

PRINCIPAL DIMENSIONS

LENGTH O.A. MLD. HULL	49.90 M
LENGTH B.P.	46.00 M
BEAM MLD.	12.20 M
DEPTH MLD.	4.50 M
DESIGN DRAFT	2.50 M
FUEL OIL	ABT. 120 M ³
FRESH WATER	ABT. 200 M ³
COMPLEMENT	32 MEN



A12	AMENDED AS PER DESIGN PROGRESS	ADL	19.06.09
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BELOW MAIN DECK PLAN

MAIN DECK PLAN

OUTBOARD PROFILE

ACCOMMODATION DECK PLAN

FORCASTLE DECK

REMARK

- ASSIGN DOOR ARRANGEMENT SEE IN DETAILS OF STERNE DRAWING
- ALL DECK TO ACCOMMODATION AND WORKING SPACES
- CONFORM WITH ABS CODES

CLASS : ABS * A1 * AMS

REV	OWNER/CLIENT	CLASS	YARD	APPROVED/REVIEWED	DATE	SCALE
					24.04.08	1:125
					11/05/09	P-1169
						DWG NO : P1169-101-00-A12
						CHECKED BY : G.S.C.

PROJECT	49.9M DIVING SUPPORT VESSEL
BUILDER	ZAMIL OPERATIONS & MAINTENANCE CO LTD
HULL NO.	127
PROJECT	SedTech Solutions International (S) Pte Ltd
TITLE	GENERAL ARRANGEMENT
DATE	24.04.08
SCALE	1:125
DRAWN BY	LM/SH
PROJECT NO.	P-1169
DWG NO.	P1169-101-00-A12
CHECKED BY	G.S.C.

REV	DESCRIPTION	DATE
AS PER DESIGN PROGRESS		01.06.09
AMENDED AS PER DESIGN PROGRESS		18.03.09
REMOVED ON SITE LIGHT LOCATION		10.03.09
AMENDED PER OWNER COMMENT		25.02.09
AMENDED PER OWNER COMMENT ON EMAIL DD 21-01-08		22.1.08
AMENDED PER OWNER COMMENT ON EMAIL DD 21-01-08		03.02.09
DELETE LINE AT MAIN DECK & ADD SWAMP TK P/S		18.1.09
AMENDED PER OWNER COMMENT ON EMAIL DD 29-12-08		13.1.09
MODIFICATION		DATE