



BOS CHALLENGE

6,500 BHP | 85 t BP | DP2 AHTS

Class Notation: A1 Offshore Support Vessel (AH, FFV 1, OSR-C2, SPS, Supply-HNLS, TOW), AMS, ACCU, DPS-2, BP (87 MT), ENVIRO, GP, HDC (7t/m², Main Deck), RW, UWILD

Main Particulars	
Particular	Detail
Flag	Singapore
IMO	9749623
Call Sign	9V3668
Built	2016
Length Overall	65 m
Depth (Moulded)	6.8 m
Breadth (Moulded)	16.4 m
Design Draft	5.4 m
Max Summer Draft	5.8 m
Gross Tonnage	2,387 t
Net Tonnage	716 t
Deadweight	1,781 t

Main Engines	
Component	Specification
Main Engines	2 × MaK 8M25C, 2,400 kW each
Generators	3 × 450 kW (diesel-driven)

Thrusters & Propulsion	
Component	Specification
Bow Thrusters	2 × 10 t (550 kW) electric-driven
Stern Thruster	1 × 8 t (550 kW) electric-driven
Propellers	CPP

Deck & Anchor-Handling Equipment	
Component	Specification
Tow / AH Winch	MacGregor
Stall Pull Capacity	150 t
Brake Holding Capacity	250 t
Tow Drum Capacity	1,500 m × ø64 mm wire rope
Anchor Handling Capacity	1,500 m × ø64 mm wire rope
Spare Tow Wire Capacity	1,500 m × ø64 mm wire rope
Tugger Winches	2 × 10 t @ 15 m min ⁻¹
Capstans	2 × 5 t @ 15 m min ⁻¹
Shark Jaws	2 × Karmfork, 300 t SWL
Tow Pins	2 × 300 t SWL
Stern Roller	5.0 m × ø1.6 m; 300 t SWL
Anchors	2 × 1,610 kg
Anchor Chain	2 × 440 m × ø40 mm
Anchor Windlass	MacGregor

Accommodation	
Item	Capacity
Cabins	11 × single; 14 × double
Total Berths	39
Hospital	1 bed

Fire-Fighting & Rescue	
Item	Capacity / Rating
Firefighting System	FiFi-1
FiFi Pumps	2 × 1,200 m ³ h ⁻¹
FiFi Monitors	2 × 1,200 m ³ h ⁻¹
Spray Booms	2 × 6 m
Rescue Boat	1 × 6-person with 25 HP OBM

Performance		
Mode	Speed	MGO Consumption
Service	9.5 kn	12 m ³ d ⁻¹
Economy	7.5 kn	8.3 m ³ d ⁻¹
Towing	4.5 kn	17 m ³ d ⁻¹
DP Mode	—	5–7 m ³ d ⁻¹
General Field Duties	—	7 m ³ d ⁻¹

*subject to actual weather and operating conditions

Tank Capacities & Discharge Rates		
Tank / Medium	Capacity	Discharge Rate
Fuel Oil	557 m ³	100 m ³ h ⁻¹ @ 70 m head
Fresh Water	414 m ³	100 m ³ h ⁻¹ @ 70 m head
Drill Water *	1,200 m ³	100 m ³ h ⁻¹ @ 70 m head
Liquid Mud / Brine / ORO *	395 m ³	75 m ³ h ⁻¹ @ 70 m head
Dry Bulk Tank	186 m ³	40 m ³ h ⁻¹ @ 60 m head
Foam	12 m ³	—
Detergent	12 m ³	—

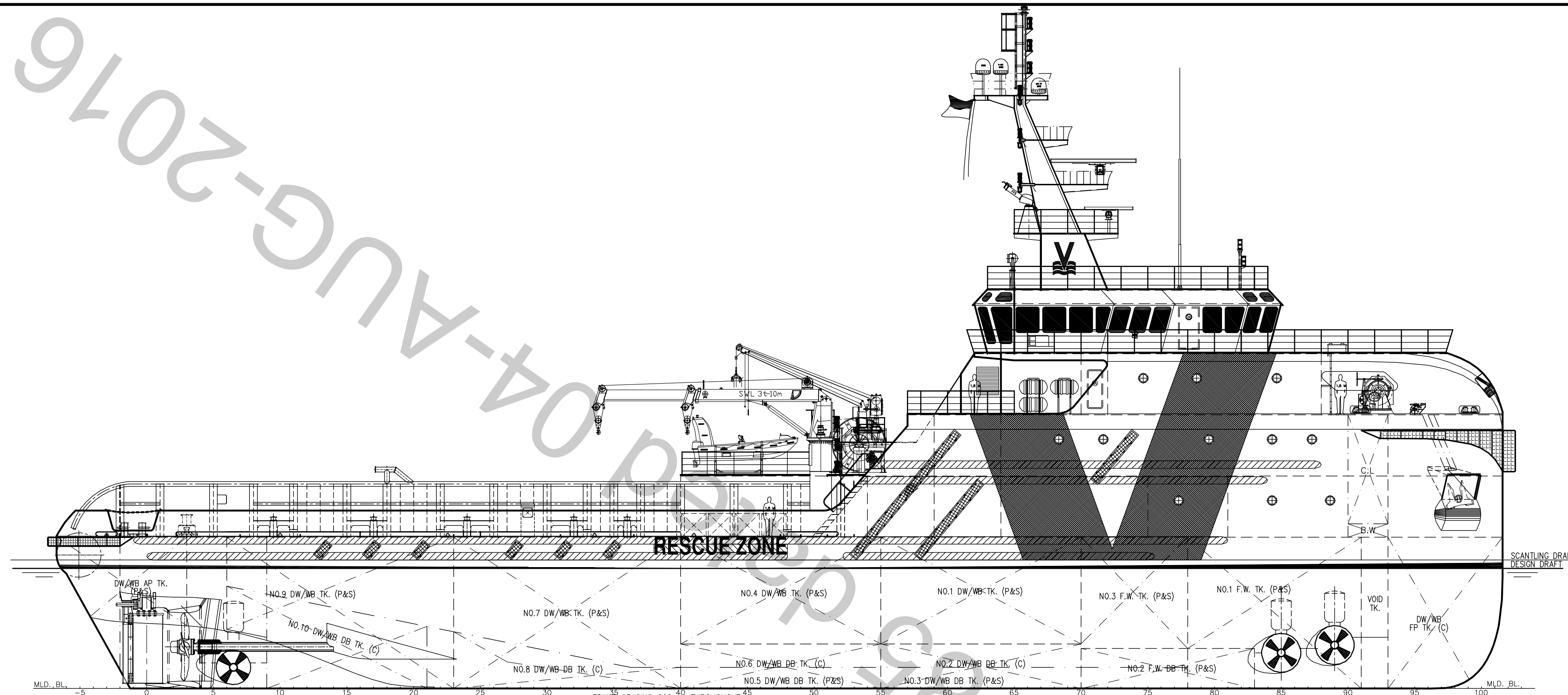
* indicates tanks with shared capacity

Cargo Deck	
Parameter	Value
Clear Deck Area	425 m ²
Deck Dimensions	31.5 m × 13.5 m
Deck Cargo Capacity	700 t
Deck Strength	7 t m ⁻²

Deck Crane	
Crane	Rating / Reach
Fixed Crane	3 t SWL @ 10 m

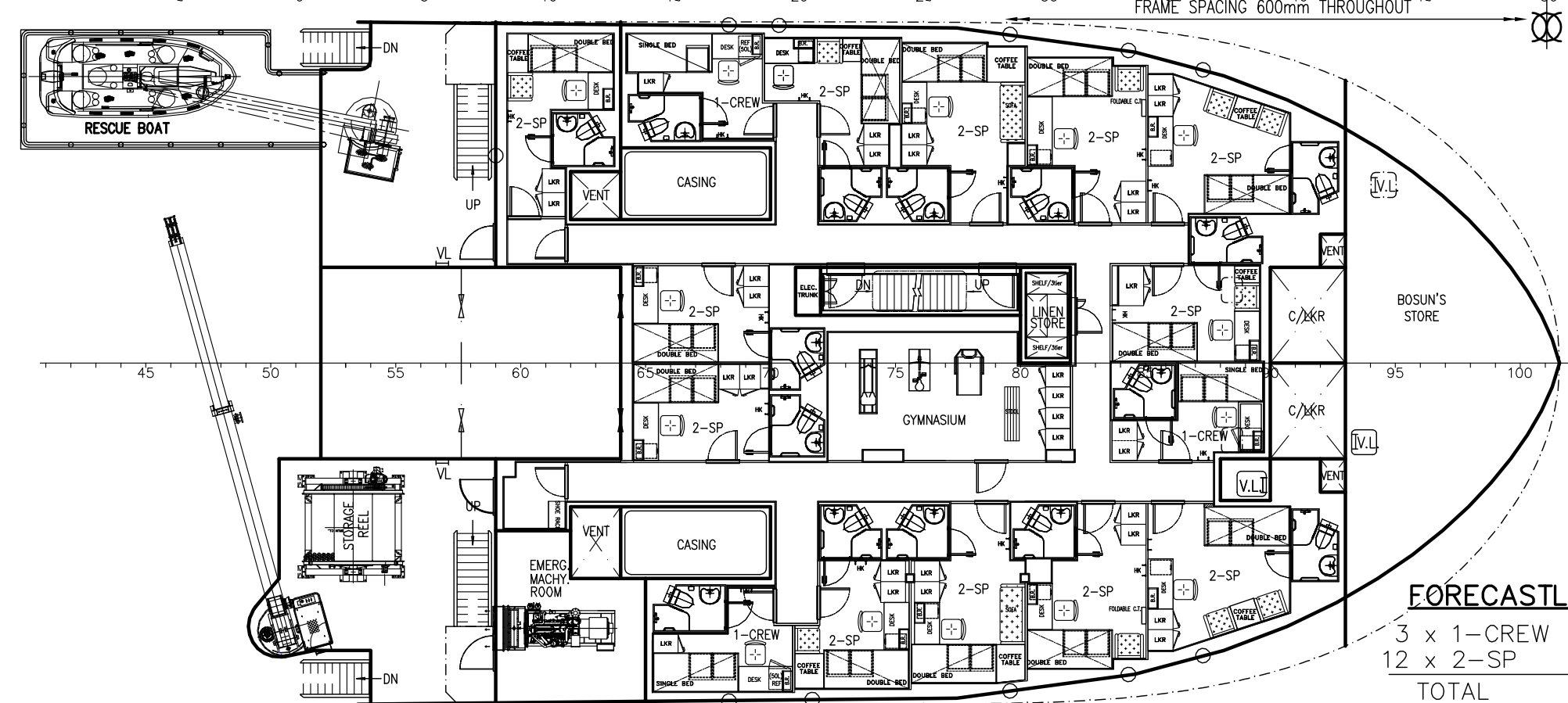
Dynamic Positioning (DP) System & Navigation Equipment	
Instrument	Model / Detail
DP Class	Class 2 – Kongsberg
References	2 × DGPS; 1 × Laser (Cyscan MK4)
Joystick	Kongsberg C-Joy
Radar No. 1	X-band radar
Radar No. 2	S-band radar
GPS / Plotter	GPS plotter
Echo Sounder	Navigational echo sounder
ECDIS	Yes
Autopilot	Autopilot system
Gyro Compass	3 × gyro compass
Magnetic Compass	1 × magnetic compass

Communications Equipment	
Instrument	Detail
HF Radio	Furuno RC-1800T
VHF Radio	Furuno FM-8800S
Portable VHF	3 × McMurdo R2 GMDSS
Satellite EPIRB	McMurdo SMARTFIND E5
NAVTEX Receiver	Furuno NX-700A (GMDSS)
SART	2 × McMurdo S4 Rescue SART
AIS	Furuno FA-150
Other Systems	Remote Fuel Monitoring (Krohne flow meters + eGenKit)

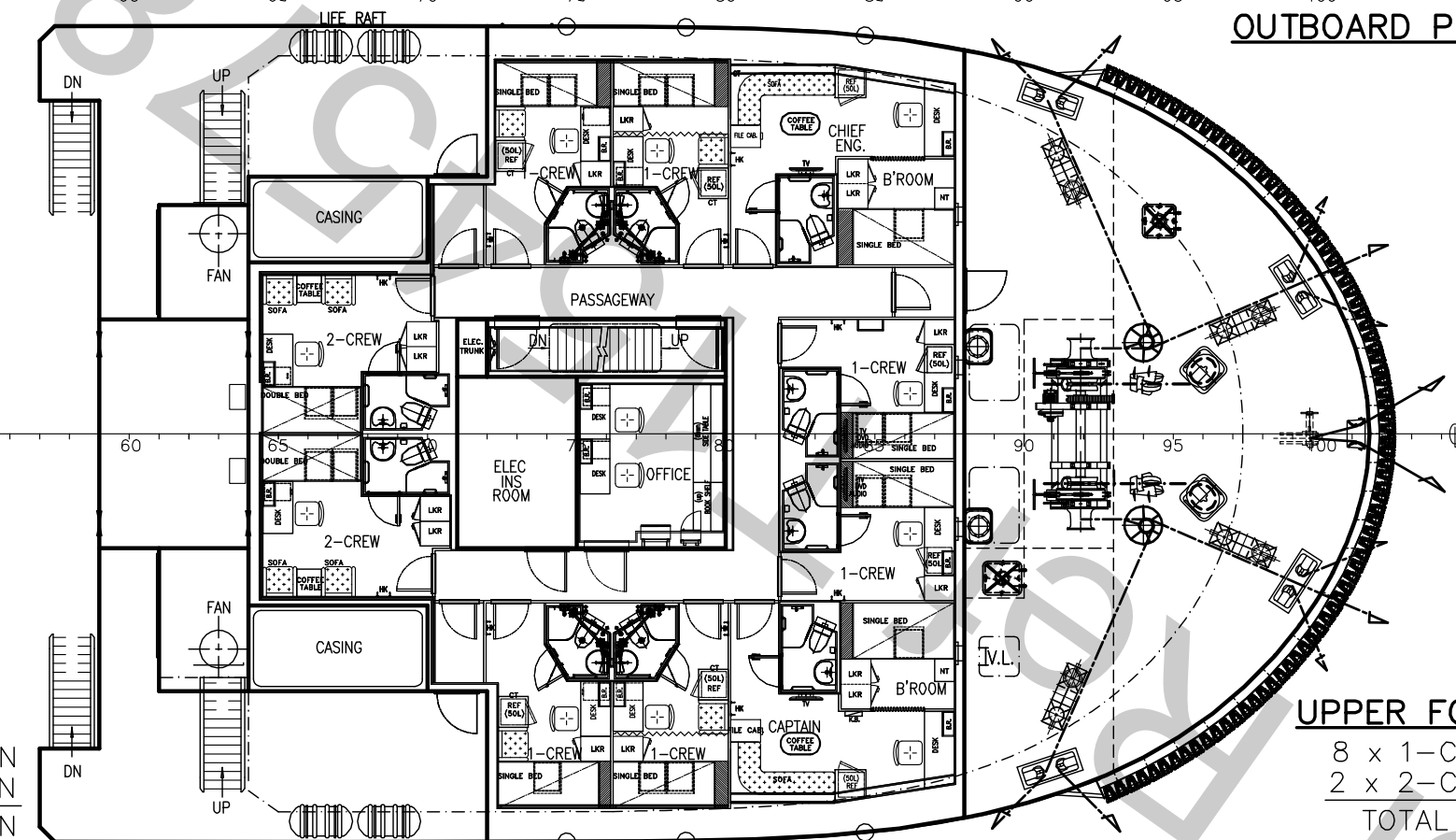


PRINCIPAL DIMENSIONS		
LENGTH (O.A.)	65.00	M
LENGTH (W.L.)	64.80	M
LENGTH (B.P.)	60.95	M
BEAM (MLD.)	16.40	M
DEPTH (MLD.)	6.80	M
DESIGN DRAFT	5.40	M
SCANTLING DRAFT	5.78	M
FUEL OIL	570	M ³
FRESH WATER	420	M ³
DRILL WATER / W.B.	1200	M ³
MUD/BRINE/ORO	395	M ³
DRY BULK TANKS (4x1650 FT ³)	187	M ³
CLEAR DECK AREA	425	M ²
DECK CARGO (DECK LOADING = 7T/M ²)	700	TONS
MAIN PROPULSION ENGINE	2 X 2400	KW
SPEED (TRIALS)	13.5	KNOTS
BOLLARD PULL	82	TONS
COMPLEMENT - CREW	15	MEN
- SPECIAL PERSONNEL	24	MEN

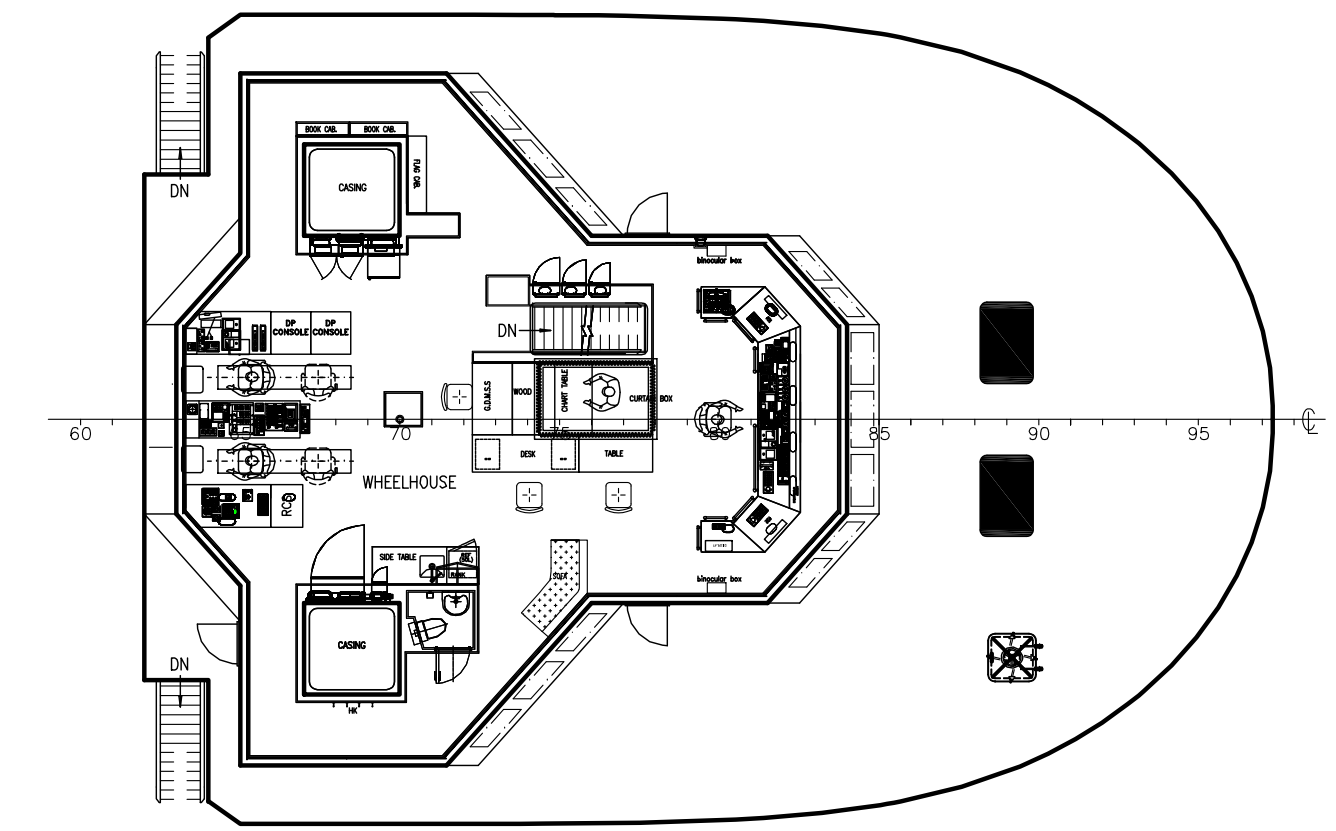
CLASS & NOTATION : ABS * A1 Ⓢ OFFSHORE SUPPORT VESSEL
(SUPPLY-HNLS, TOW, AH, FFV 1, OSR-C2),
* AMS, * DPS-2, * ACCU, ENVIRO, GP, SPS,
HDC (7T/M2, MAIN DECK), RW, UWILD, BP(82T),
UNRESTRICTED SERVICE



FORECASTLE DECK
3 x 1-CREW = 3 MEN
12 x 2-SP = 24 MEN
TOTAL = 27 MEN



UPPER FORECASTLE DECK
8 x 1-CREW = 8 MEN
2 x 2-CREW = 4 MEN
TOTAL = 12 MEN

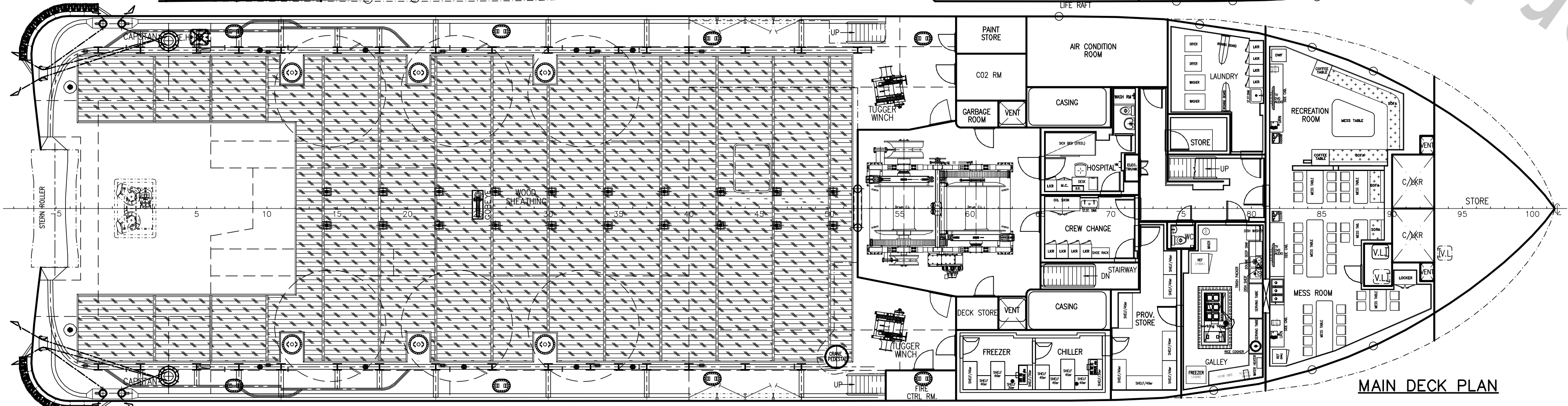


REVIEWED

Details of this review are as indicated in the ABS letter

ABS

AS AMENDED on pages

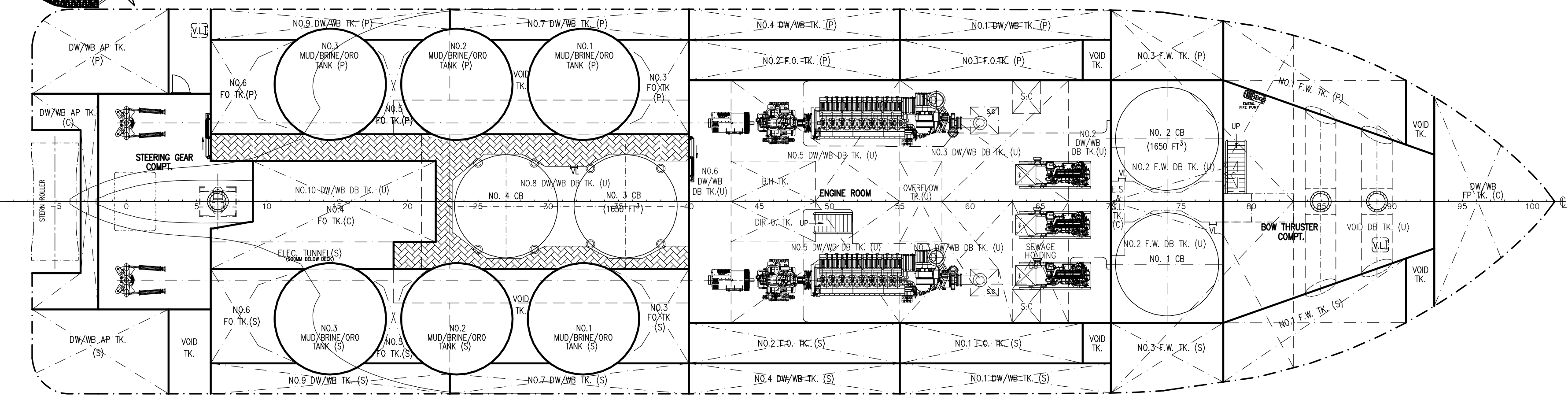


MAIN DECK PLAN

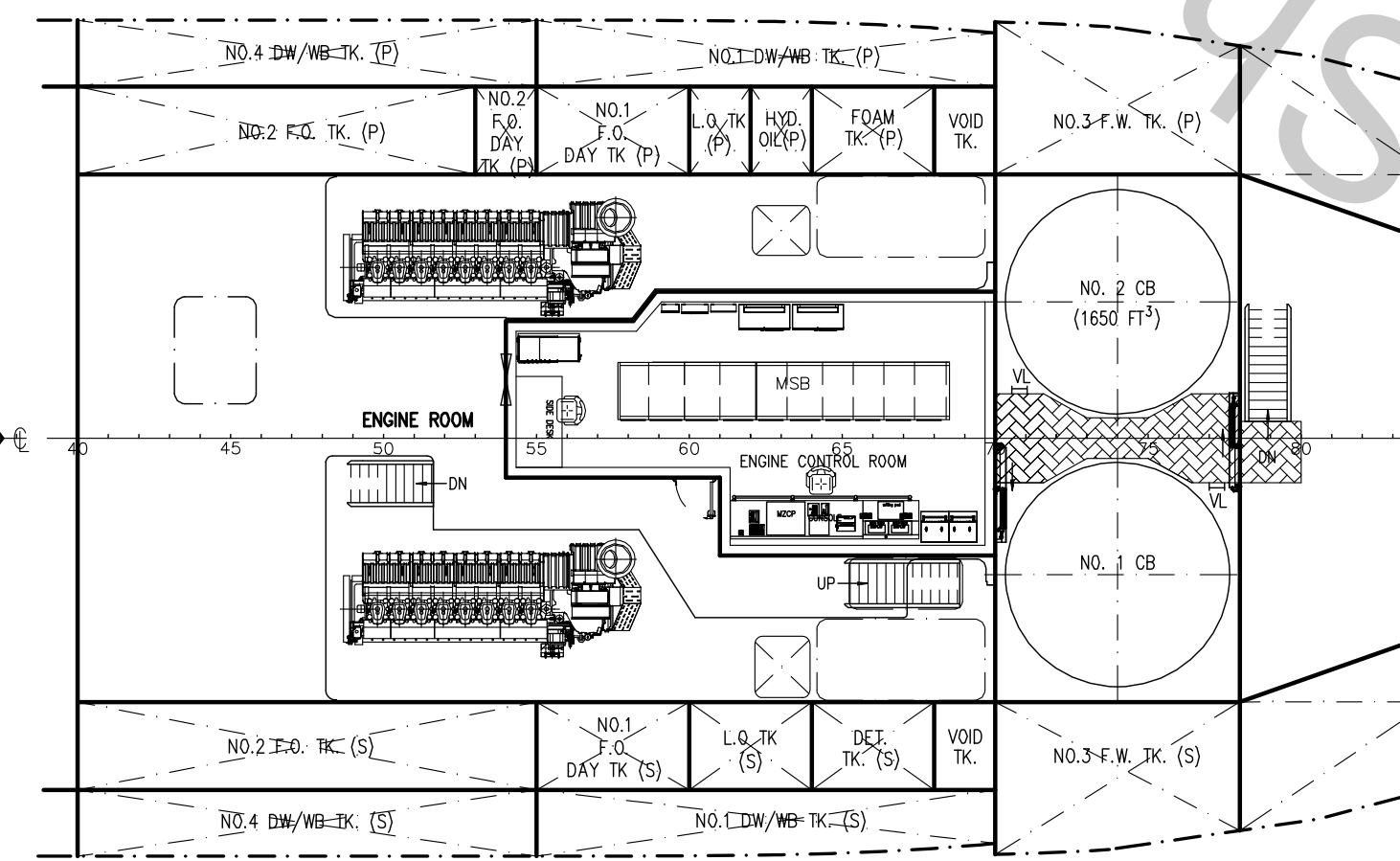
NOTE:-

- WHERE DOORS OPEN INTO CORRIDOR, APPROPRIATED ARRANGEMENT TO AVOID INJURY TO PERSONS IN THE CORRIDOR SHALL BE CONSIDERED.
- ALL THE DRILL WATER/WATER BALLAST TANKS, MUD/BRINE/R.O. TANKS & CEMENT BULK TANKS TO BE USED AS CARGO TANKS.
- NO.2 F.W. DB TANK(P&S), NO.3 F.W. TANK(P&S) MAY BE USED AS CARGO FRESH WATER TANKS.
- NO.1 F.O. TANK(P&S), NO.2 F.O. TANK(P&S), NO.3 F.O. TANK(P&S), NO.5 F.O. TANK(P&S) & NO.6 F.O. TANK(P&S) MAY BE USED AS CARGO TANKS.

COMMENTS SEE ABS LETTER.



BELOW DECK PLAN



TWEEN DECK PLAN

13	DECK CARGO AMENDED AS 700T	YUMINGYE	05.07.16
12	ESCAPE HATCH ADDED FROM FWD MOORING AREA TO BRIDGE DECK	YUMINGYE	03.06.16
11	RESCUE BOAT PLATFORM AMENDED	YUMINGYE	11.05.16
10	RESCUE BOAT RELOCATED	YUMINGYE	28.04.16
9	FENDER, TOWING WINCH ROOM UPDATED AS STRUCTURAL DRAWING	YUMINGYE	18.12.15
8	WINDOW ADDED ON BRIDGE DECK	YUMINGYE	27.02.15
7	WHEELHOUSE ENLARGED, DECK STORE EXCHANGE WITH DECKSTORE NO.2 TO DAY TK(P) ADDED	YUMINGYE	04.12.14
6	TOWING WINCH COMPT. AMENDED, STORAGE REEL & CRANE RELOCATED, UPPER FORECASTLE FWD BULK AMENDED, EDR, SEA CHEST AMENDED	YUMINGYE	09.09.14
5	AMENDED AS PER OWNER'S COMMENT	YUMINGYE	22.05.14
4	LINES MODIFIED	ZLY	11.10.13
ITEM	DETAILS OF MODIFICATION	BY	DATE
CONSULTANT KHIAM CHUAN MARINE PTE LTD			
31, BUKIT BATOK CRESCENT, #01-53, THE SPLENDOR SINGAPORE 658070 Tel+65-67753383 Fax+65-67753788 Email: khamchuan@kcm.com.sg			
PROJECT 65m MULTI-PURPOSE OFFSHORE SUPPORT VESSEL			
TITLE FUJIAN SOUTHEAST SHIPBUILDING CO., LTD GENERAL ARRANGEMENT			
CLASSIFICATION		HULL NO. DN65M-V-2/3/4/5/6/7/8	
DRAWN	CHECKED	SCALE	DRAWING NUMBER REV.
hcKOH		1:150	KCM/Q700-G1 13
3-7-12			
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