



BRITTOIL DIAMOND

7,000 BHP | 90 t BP | DP2 AHTS | 50 t SUBSEA CRANE

Class Notation: ~~A~~1, Towing Vessel, Fire Fighting Vessel Class 2, Offshore Support Vessel, AH, ~~G~~, ~~AMS~~, ~~DPS~~-2

Main Particulars	
Particular	Detail
Flag	Tuvalu
IMO	9503079
Call Sign	T2HH5
Built	2013
Shipyard	PRM OFFSHORE HEAVY INDUSTRIES PTE LTD
Length Overall	81 m
Depth (Moulded)	7.5 m
Breadth (Moulded)	16.8 m
Max Summer Draft	6.25 m
Gross Tonnage	3,208 t
Net Tonnage	962 t
Deadweight	3,100 t

Main Engines & Generators	
Component	Specification
Main Engines	Yanmar 8EY26, 2 x 2,560 kW each
Generators	6 x Caterpillar 3412, 590 kW each
Emergency Generator	Caterpillar C4.4, 92 kW

Thrusters & Propulsion	
Component	Specification
Bow Thrusters	Kawasaki KT-88B3, 2 x 550 kW (2 x 9.0 t)
Azimuth Propulsion	Kawasaki KST-220 ZC/B Rexpeller, azimuth thruster in Kort nozzle

Deck & Anchor-Handling Equipment	
Equipment	Rating / Size
Tow / AH Winch	Rolls-Royce Brattvaag SL150W-2T, double-drum waterfall type
Stall Pull Capacity	160 t
Brake Holding Capacity	225 t
Tow Drum Capacity	1,200 m x $\varnothing$ 52 mm wire
Anchor Handling Capacity	1,200 m x $\varnothing$ 52 mm wire
Wire Storage Reels	3 x 1,800 m x $\varnothing$ 52 mm wire
Cargo Deck Reels	2 x 10 t each
Tugger Winches	2 x 5 t
Capstan	Triplex H-200, SWL 200 t
Shark Jaws	Triplex S-200, SWL 200 t
Stern Roller	5.0 m x $\varnothing$ 2.5 m, SWL 300 t
Anchor	2 x 2,500 kg HHP
Anchor Chain	2 x 17 shackles x $\varnothing$ 42.0 mm
Anchor Windlass	13.0 t @ 0-12 m min ⁻¹

Tow / Anchor-Handling Wires	
Wire	Rating / Size
Main Tow Wire	1,000 m x $\varnothing$ 52 mm
Spare Tow Wire	1,000 m x $\varnothing$ 52 mm
Anchor Handling Wire	1,000 m x $\varnothing$ 52 mm

Accommodation	
Item	Capacity
1-Berth Cabins	2
2-Berth Cabins	4
4-Berth Cabins	14
Total	66

Performance	
Mode	Speed
Max Speed	12 kn
Economical Speed	10 kn
<i>*subject to actual weather and operating conditions</i>	

Tank Capacities & Discharge Rates		
Tank	Capacity	Discharge Rate
Fuel Oil	1,074 t (90%)	—
Cargo Fuel Oil *	830.0 m ³	2 x 150 m ³ h ⁻¹ @ 80 m head
Fresh Water	370.0 m ³	2 x 100 m ³ h ⁻¹ @ 80 m head
Drill Water *	1,015 m ³	2 x 150 m ³ h ⁻¹ @ 80 m head
Base Oil *	376.0 m ³	2 x 150 m ³ h ⁻¹ @ 80 m head
Mud Tank *	605.0 m ³	2 x 100 m ³ h ⁻¹ @ 80 m head
Brine Tank *	605.0 m ³	2 x 150 m ³ h ⁻¹ @ 80 m head
Dry Bulk Tank	339.6 m ³ (6 tanks)	40 m ³ h ⁻¹
Oil Recovery *	1,515 m ³	—
<i>*subject to actual weather and operating conditions</i>		

Cargo Deck	
Parameter	Value
Clear Deck Area	650 m ²
Deck Dimensions	45.0 m x 14.0 m
Deck Cargo Capacity	1,200 t
Deck Strength	5.0 t m ²
Reefer Points	6 x 440 V; 2 x 220 V

Deck Cranes	
Crane	Rating / Reach
Telescopic Subsea Crane	Liebherr; 50 t main hoist @ 500 m WD; 15 t aux hoist (man-riding)
Fixed Crane	SWL 5 t @ 8 m

Dynamic Positioning (DP)	
Instrument	Model / Detail
DP Class	DP 2 (L3 NMS6000)
References	3 x Veripos LD5 DGPS; 1 x Cyscan; 1 x Radascan
VRU	2
Joystick	Independent joystick system (Kawasaki KICS)

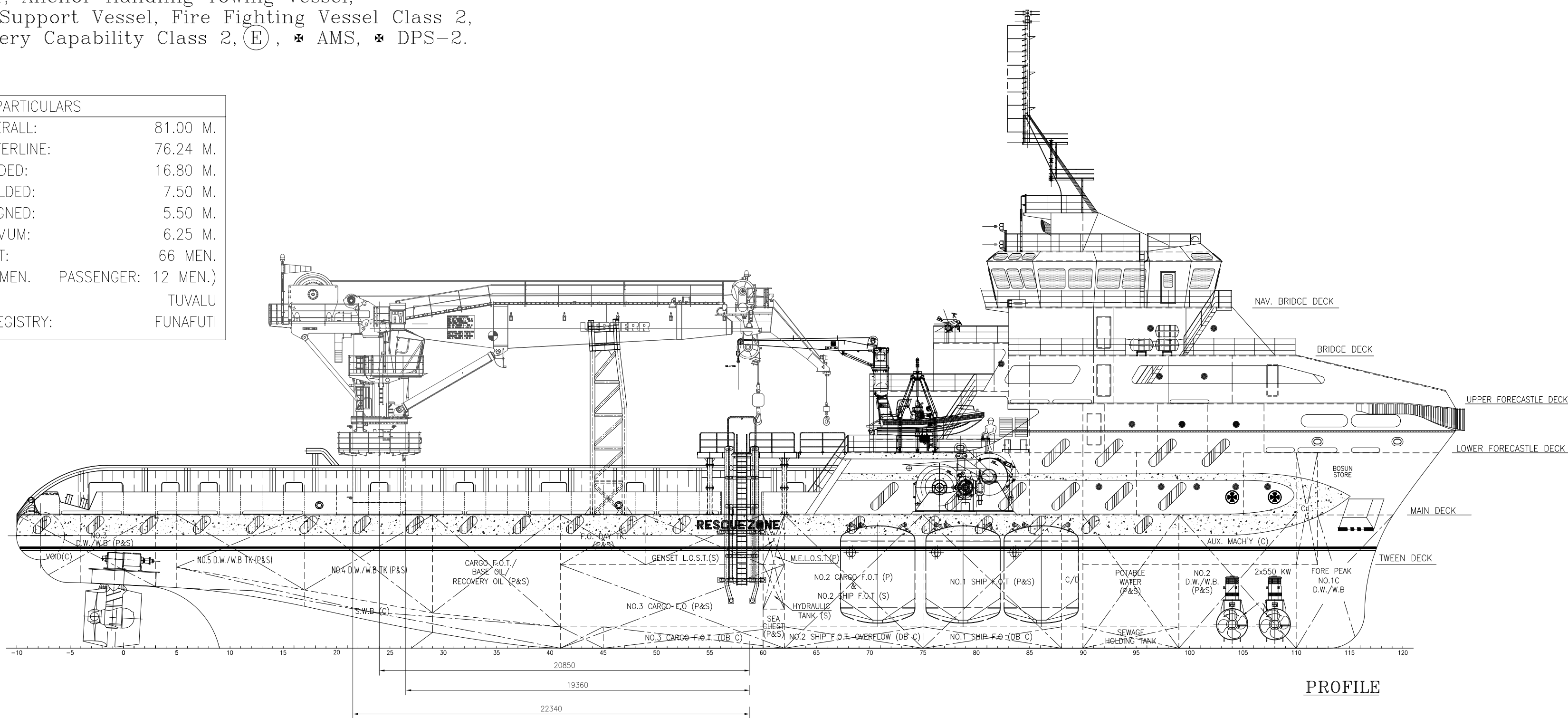
Utilities	
Item	Model / Detail
Fresh-water Maker	Tecnicomar Reverse Osmosis – STDC SY 3000

Fire-Fighting & Rescue	
Equipment	Capacity / Rating
Fifi Class	Fifi-2
Fifi Pumps	2 x 1,800 m ³ h ⁻¹ + 1 x 3,600 m ³ h ⁻¹
Fifi Monitors	4 x 1,800 m ³ h ⁻¹
Spray Booms	2 x 6.0 m
Dispersant Capacity	29.0 m ³
Foam Capacity	29.0 m ³
Rescue Boat	1 x 10-person rigid-hull waterjet FRC (218 HP)
Life Rafts	8 x 25-person
Life Buoys	12
Life Jackets	90
Fixed H2S Detection	Yes

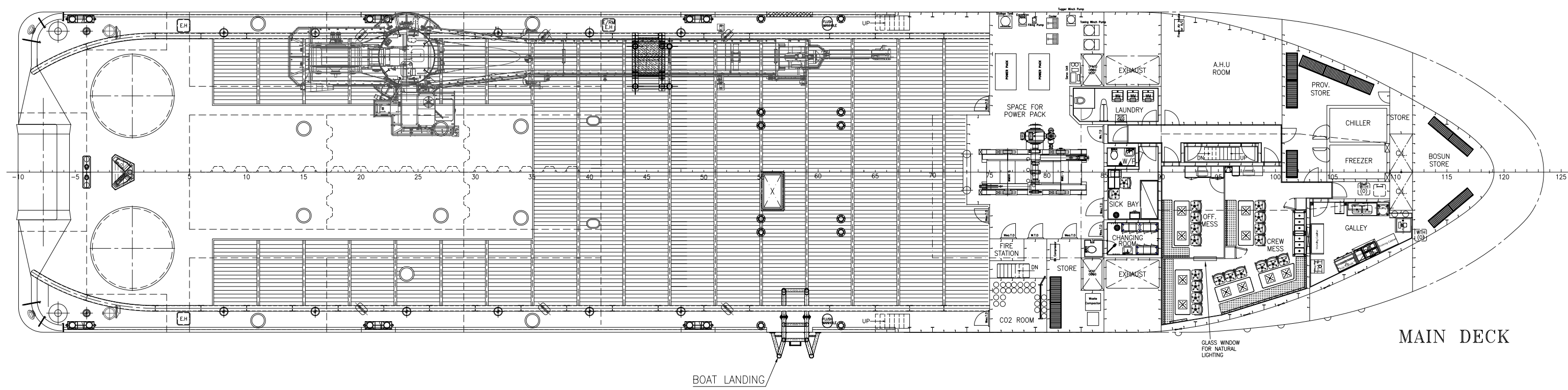
ABS: ✱ A1, Anchor Handling Towing Vessel,
Offshore Support Vessel, Fire Fighting Vessel Class 2,
Oil Recovery Capability Class 2, (E), ✱ AMS, ✱ DPS-2.

PRINCIPLE PARTICULARS

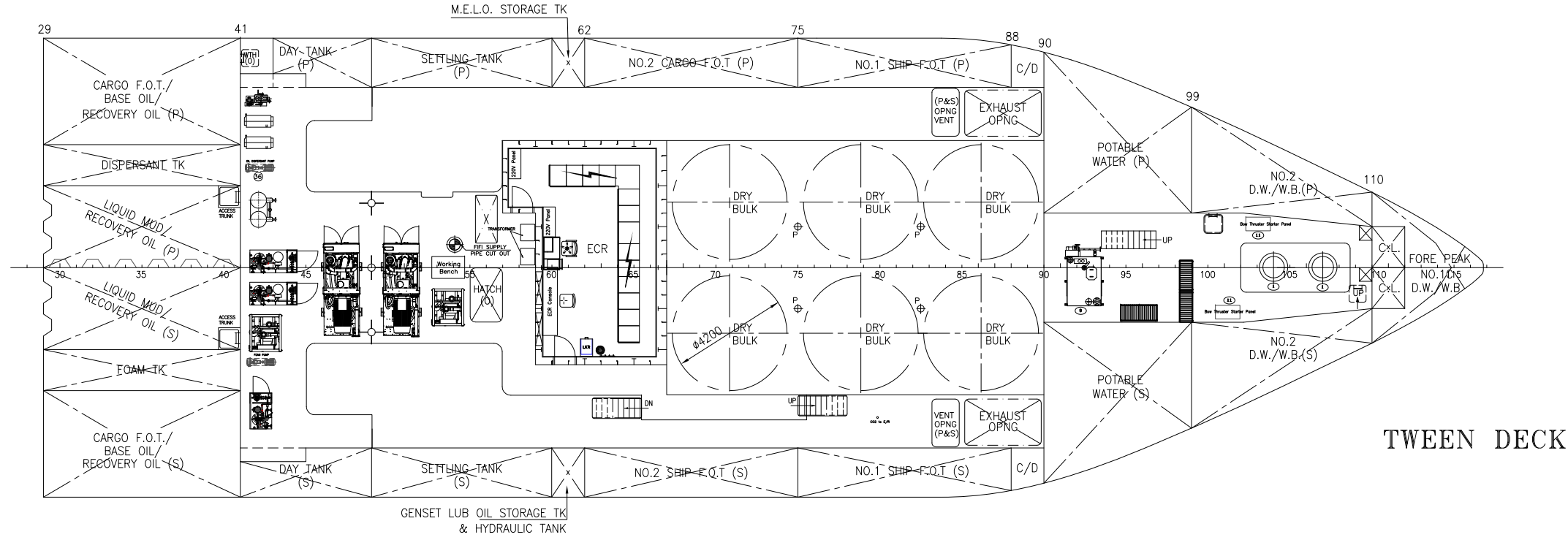
LENGTH OVERALL:	81.00 M.
LENGTH WATERLINE:	76.24 M.
BEAM MOULDED:	16.80 M.
DEPTH MOULDED:	7.50 M.
DRAFT DESIGNED:	5.50 M.
DRAFT MAXIMUM:	6.25 M.
COMPLEMENT:	66 MEN.
(CREW: 54 MEN. PASSENGER: 12 MEN.)	
FLAG STATE:	TUVALU
PORT OF REGISTRY:	FUNAFUTI



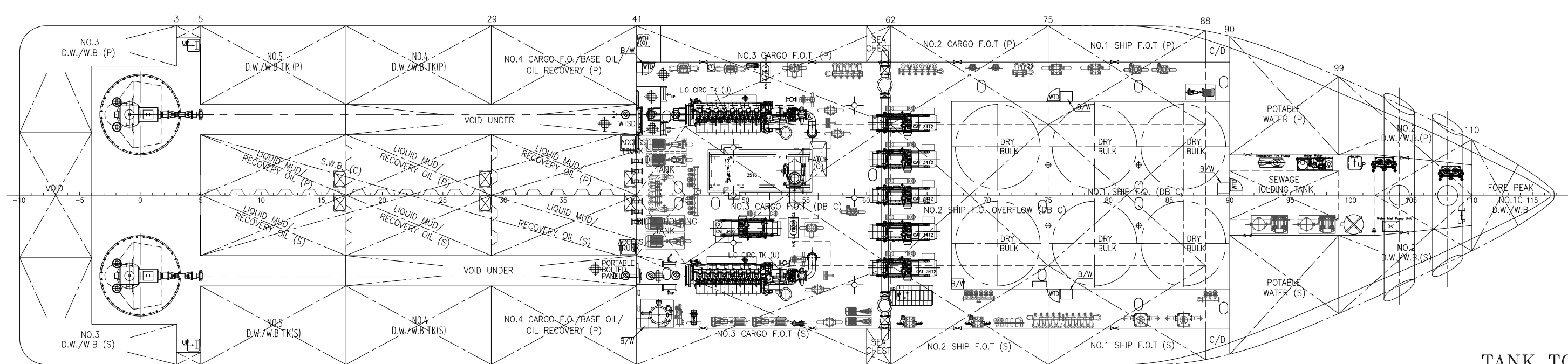
PROFILE



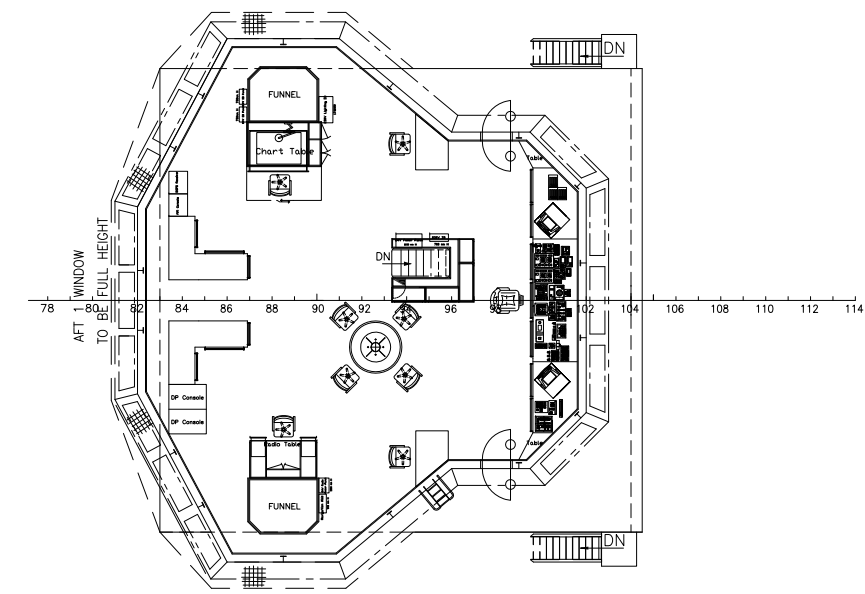
MAIN DECK



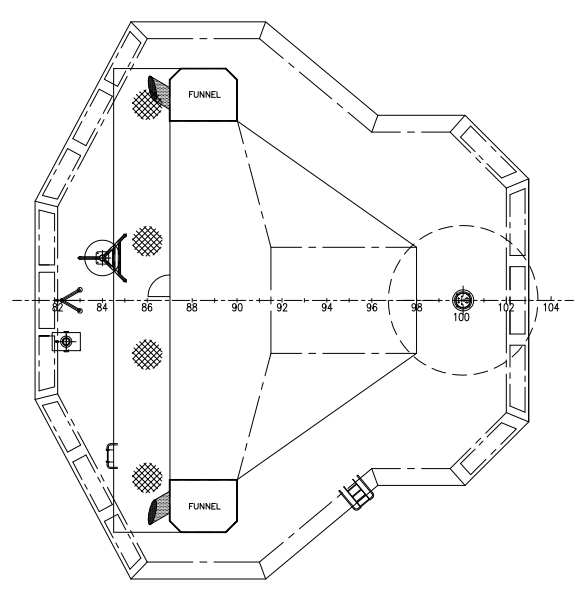
TWEEN DECK



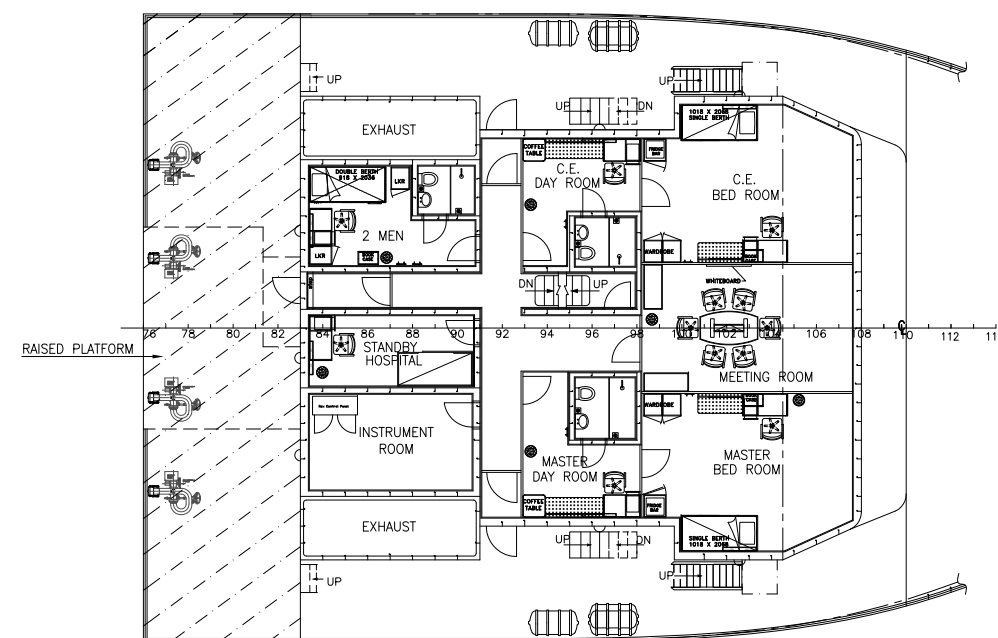
TANK TOP



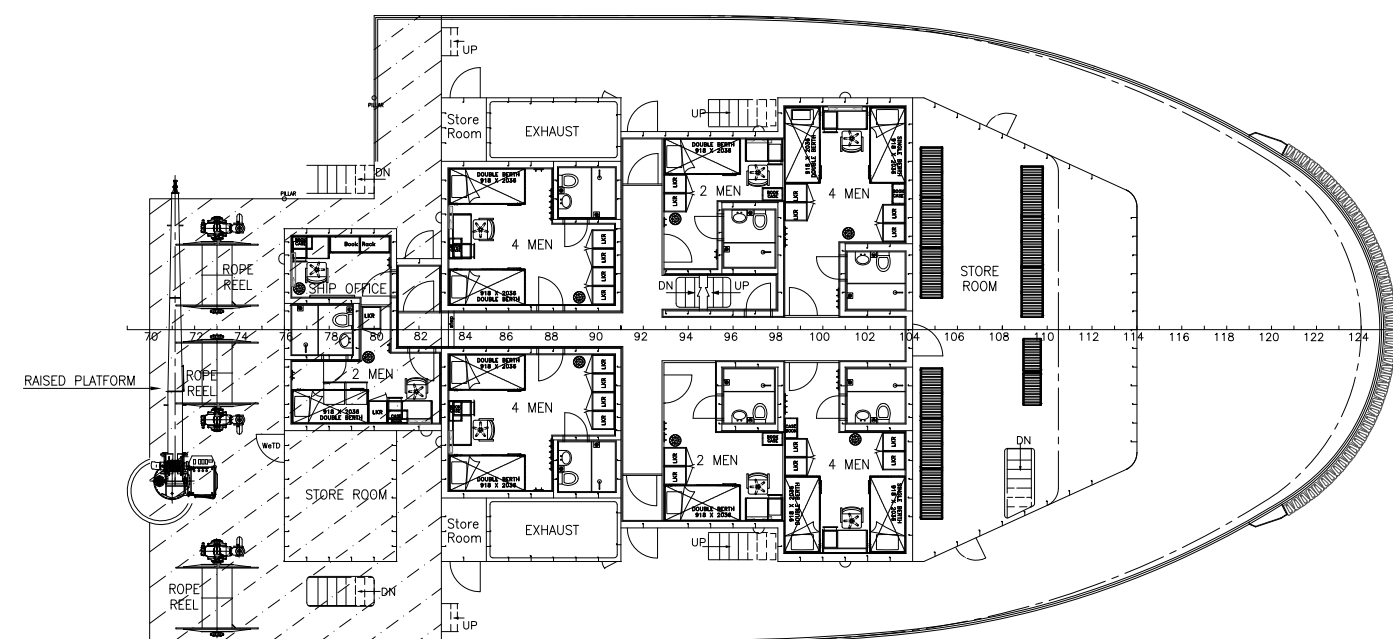
NAV. BRIDGE DECK



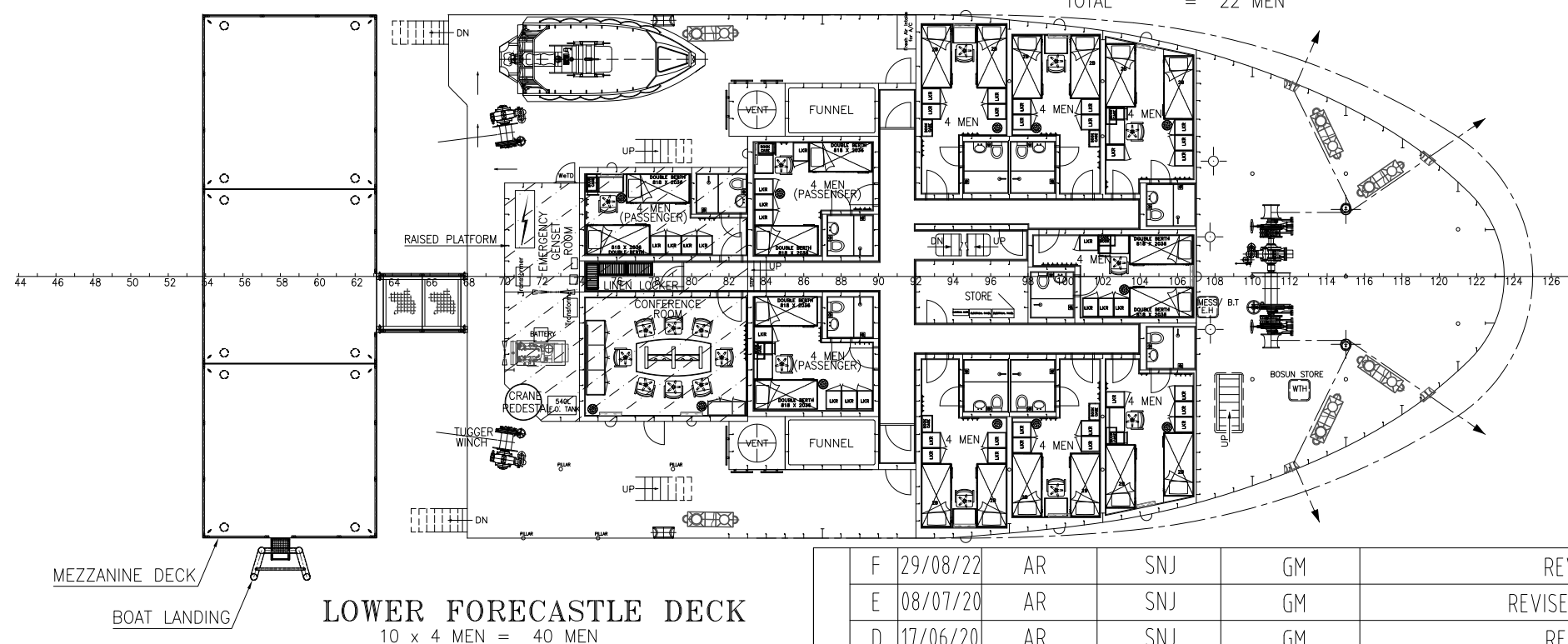
WHEELHOUSE TOP



BRIDGE DECK
1 x 2 MEN = 2 MEN
2 x 1 MEN = 2 MEN
TOTAL = 4 MEN



UPPER FORECASTLE DECK
4 x 4 MEN = 16 MEN
3 x 2 MEN = 6 MEN
TOTAL = 22 MEN



LOWER FORECASTLE DECK
10 x 4 MEN = 40 MEN

F	29/08/22	AR	SNJ	GM	REVISED TO CHANGE VESSEL NAME
E	08/07/20	AR	SNJ	GM	REVISED TO UPDATE VESSEL PARTICULARS
D	17/06/20	AR	SNJ	GM	REVISED TO UPDATE TANK NAMES
C	05/05/20	AR	SNJ	GM	REVISED AS PER CLIENT COMMENT
B	19/02/20	AR	SNJ	GM	REVISED TO ADD BOAT LANDING
A	31/01/20	-	SNJ	GM	INITIAL ISSUE
NO.	DATE	REVISED BY	CHECKED BY	APPROVED BY	DESCRIPTION



Alliance Marine Solutions

ALLIANCE MARINE SOLUTIONS PTE LTD.
81A Clemenceau Avenue, #05-18, UE Square,
Singapore 239918
Phone: +65 6832 8001; Fax: +65 6832 8018
Email: tech@alliancemarinesolutions.com
Website: www.alliancemarinesolutions.com

DOCUMENT NAME:										GENERAL ARRANGEMENT			
CLIENT:						VESSEL:							
 Britoil Offshore Services Pte Ltd						BRITOL DIAMOND							
PREPARED	CHECKED	APPROVED	JOB NO:	DOCU. NO:	DATE	SIZE	SCALE	SHEET NO:	REV:				
AR	SNJ	GM	SDJ121636	SDJ121636/G1	31/01/2020	A1	1:200	1 OF 1	F				

CONFIDENTIALITY NOTE:

This document/drawing/design concept and information are property of Alliance Marine Solutions and are not to be reproduced/modified in any form without our written consent and the recipient shall not disclose the same to any third party except for the intended purpose