



THONG YONG GROUP

P.O. Box 48709, Al Quoz Industrial Area 4, Dubai, U.A.E.

Tel #: +971 4 3417556 / Fax #: +971 4 3415899

Email : enquiry@tym-group.com / marine.admin@tym-group.com

THONG YONG

OPALE

32M Twin Screw Tug

PRINCIPAL PARTICULARS

OPERATING AREAS	: Sea Areas 1 + 2
TYPE OF SHIP	: Ocean Going Twin Screw Tug
FLAG	: Singapore
OFFICIAL NUMBER	: 394876
CALL SIGN	: 9V7818
IMO NUMBER	: 9507245
CLASSIFICATION	: GL (Germanischer Lloyd)
YEAR BUILT	: 2009
PLACE BUILT	: Sibul, East Malaysia
LENGTH OVERALL	: 32.00 m
REGISTERED LENGTH	: 29.53 m
BREADTH	: 9.14 m
DEPTH	: 4.20 m
DESIGNED DRAFT	: 3.50 m
GRT / NRT	: 297 / 90



PROPULSION SYSTEM

MAIN ENGINES	: CUMMINS KTA50-M2 MARINE DIESEL 2 x 1,600 HP @ 1800 rpm (2 x 1193kW)
GEAR BOX	: 2 x REINTJES WAF 665L / Ratio 5.950:1
AUXILIARY ENGINE	: 2 x CUMMINS 6BT5.9D (M) each rated 91 kW @ 1500rpm
ALTERNATOR	: 2 x STAMFORD UC.M274E1 Output: 80kW
FUEL OIL PURIFIER	: OTC 2-02-137 WESTFALIA GERMANY
OILY WATER SEPARATOR	: CYF - 0.5Y x 01
PROPELLERS	: 2 x SOLID 4 BLADES MANGANESE BRONZE <i>Completed with MILD S KORT NOZZLE</i>

PERFORMANCE

MAXIMUM SPEED	: 11 knots
ECONOMICAL SPEED	: 9 knots
BOLLARD PULL	: 40 metric tons

CARGO CAPACITIES

FUEL OIL	: Approx. 243.00 m ³
FRESH WATER	: Approx. 34.20 m ³
BALLAST (F.W.)	: Approx. 58.80 m ³
LUBE OIL TANK	: Approx. 2.20 m ³
DIRTY OIL TANK	: Approx. 5.00 m ³
ACCOMMODATION	: 12 Persons

STERN TUBES & SHAFTING

- * Water Lubrication Stern Tubes with BTC Cutlass B
- * 2 x Length Stainless Steel (AISI 316) Tail Shaft

STEERING GEAR SYSTEMS

- *1 x 3.0 tons Electro-Hydraulic Steering Gear with Joystick (Joystick Steering + Emergency Helm)
- Double Steering Station (Bridge FWD and AFT)

TOWING

ANCHOR WINDLASS	: 22mm U2 / ME 2.1 THWL22C330 Anchor Windlass c/w Double Gypsy & Double Drum
BOW ANCHOR	: 2 x Stockless each 570kgs
CHAIN CABLE	: 302.5m total length, 22mm dia, Grade 2
TOWING HOOK	: 30T SWL Towing Hook Op
TOWING WINCH	: 30T Drum Pull and 100T Brake Single Drum Towing Winch c/w Auto Wire Device & Drum Capacity of 650m x 42mm dia wire.

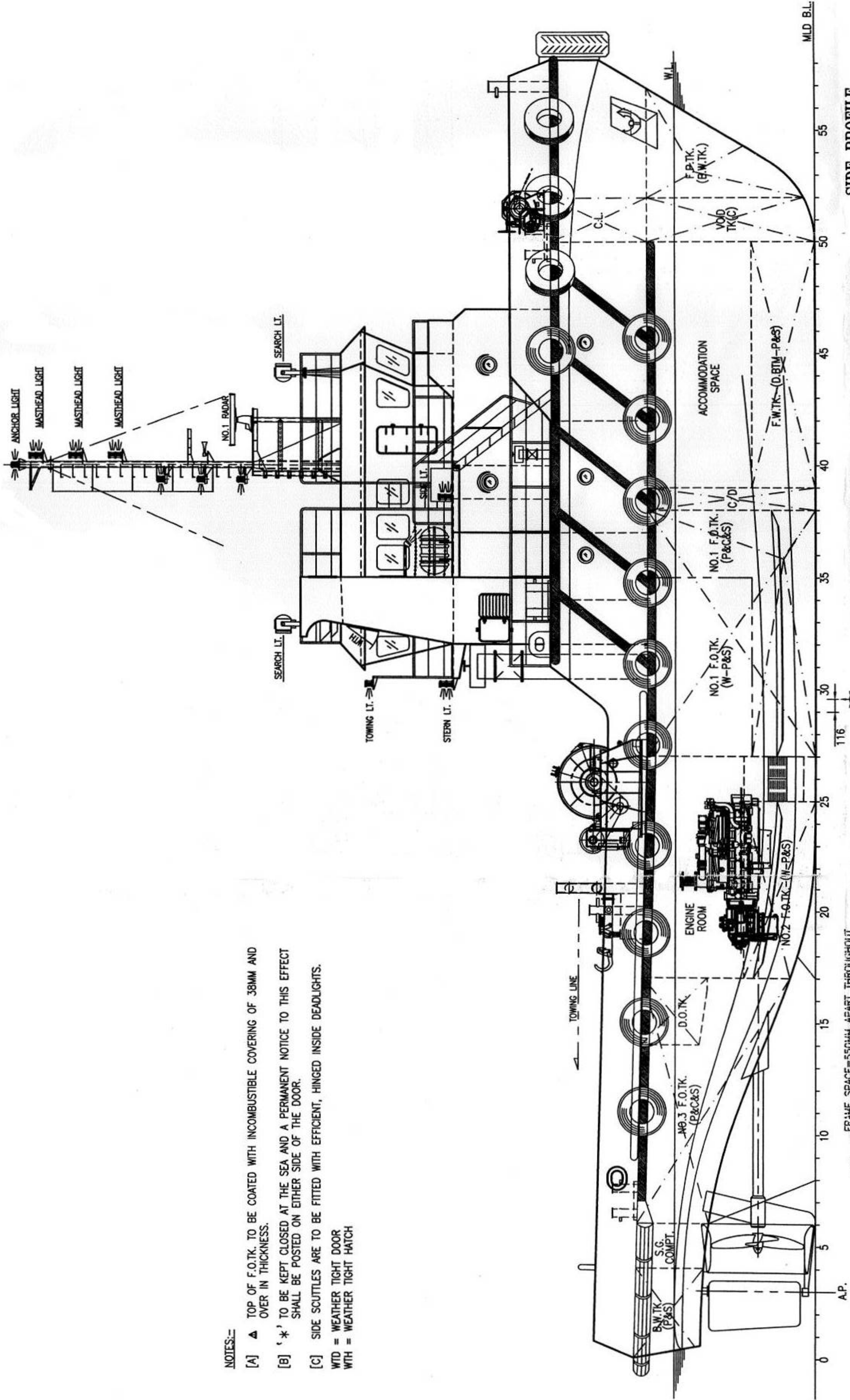
SOUND SIGNAL APPLIANCES & NAVIGATION EQUIPMENT

VHF RADIOTELEPHONE	: ICOM M-304
SSB TRANSCEIVER	: FURUNO FS-1503
24N MARINE RADAR	: FURUNO 1715
GPS NAVIGATOR	: FURUNO GP 32
ECHO SOUNDER	: FURUNO FCV 620
NAVTEX RECEIVER	: FURUNO NX 300
WEATHER FAX	: FURUNO FX 408
MAGNETIC COMPASS	: DAIKO KEIKI T-150B
EPIRB	: MC MURDO SMART FIND E5
PUBLIC ADDRESSERS	: TWO X ARROW (FORWARD & AFT)
INMARSAT C	: FURUNO FELCOM-15
AIS	: FURUNO MODEL FA-150

FIRE FIGHTING / LIFE SAVING APPLIANCES

LIFERAFT	: 2 x KHA - 15 for 15 Pax
LIFE BOUY	: SDF5556 (96) x 8 pieces
LIFE JACKET	: XY5564-1 x 16 pieces
FIREMAN'S OUTFIT	: DFX-I x 1 set with accessories
BREATHING APP.	: RHZK-6/30-II x 1 set
FIRE EXTINGUISHER	: 5 x 9kg ABC Dry Powder 1 x 45litre Trolley Foam 1 x 2kg CO ₂ 4 x 9kg Foam
PORTABLE FIRE PUMP	: CF170F / 4.5HP, 3600rpm

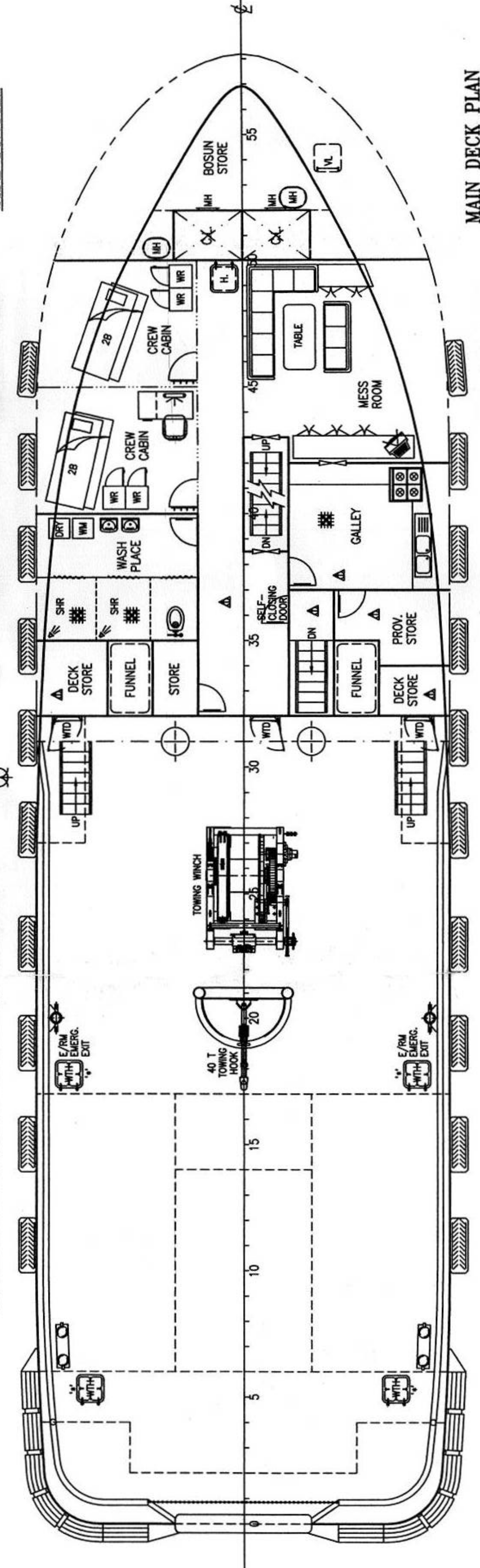
Particulars given are entirely without warranty as to correctness and interested parties must satisfy themselves by inspection of ship's certificate or by other means of vessel specifications.



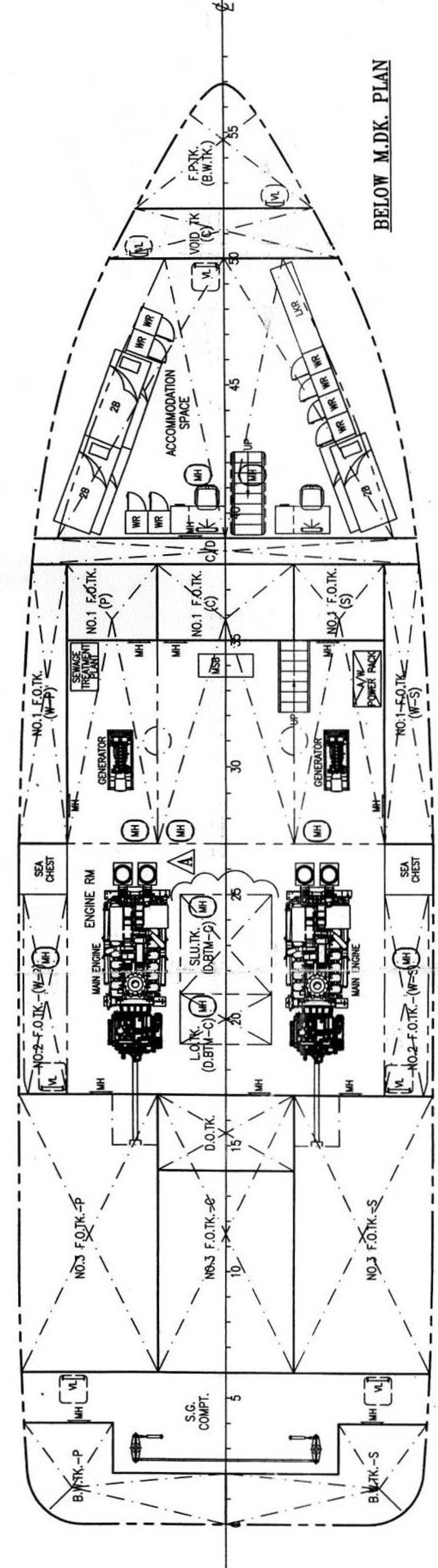
NOTES:-
[A] ▲ TOP OF F.O.T.K. TO BE COATED WITH INCOMBUSTIBLE COVERING OF 38MM AND OVER IN THICKNESS.
[B] ' * ' TO BE KEPT CLOSED AT THE SEA AND A PERMANENT NOTICE TO THIS EFFECT SHALL BE POSTED ON EITHER SIDE OF THE DOOR.
[C] SIDE SCUTTLERS ARE TO BE FITTED WITH EFFICIENT, HINGED INSIDE DEADLIGHTS.
WTD = WEATHER TIGHT DOOR
WTH = WEATHER TIGHT HATCH

PRINCIPAL PARTICULARS :-
L.O.A. 32.000M (104.99FT)
L.B.P. 29.234M (95.91FT)
BREADTH MLD 9.144M (30.00FT)
DEPTH MLD 4.200M (13.78FT)
DESIGNED DRAFT 3.500M (11.48FT)
(SUBJECT TO FREEBOARD ASSIGNMENT)
SPEED ABT 11 KNOTS
COMPLEMENT 12 MEN
MAIN ENGINE CUMMINS KTA50-M2
1600HP@1800RPM x 2 UNITS
GEAR BOX REINTJES WAF-665L, RATIO 5.950:1
GENERATOR 80KW x 2 UNITS
UNRESTRICTED SINGAPORE
PORT OF REGISTRY
F.O. CAPACITY 212 TONNES (approx.)
F.W. CAPACITY 34 TONNES (approx.)
B.W. CAPACITY 24 TONNES (approx.)

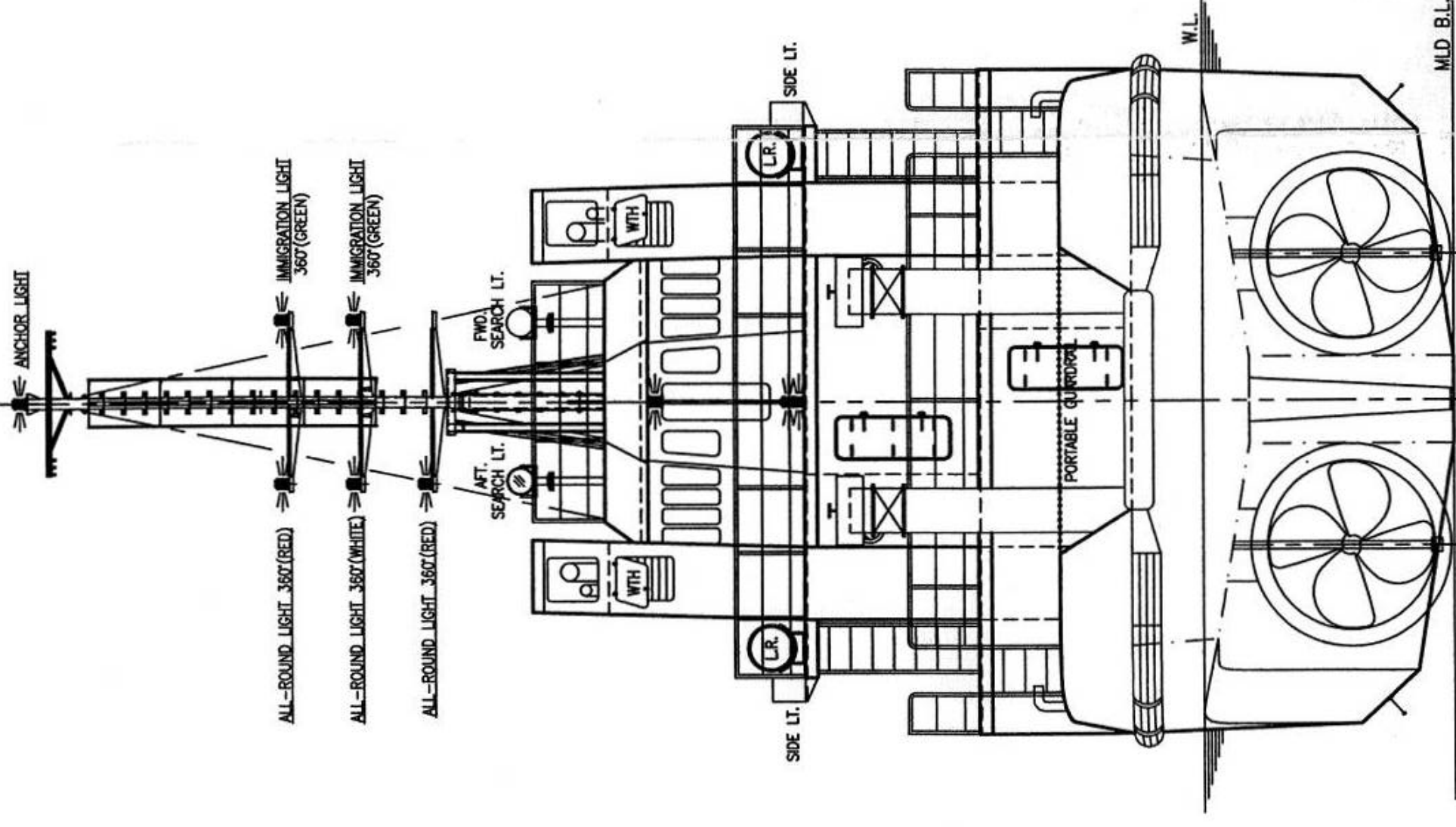
SIDE PROFILE



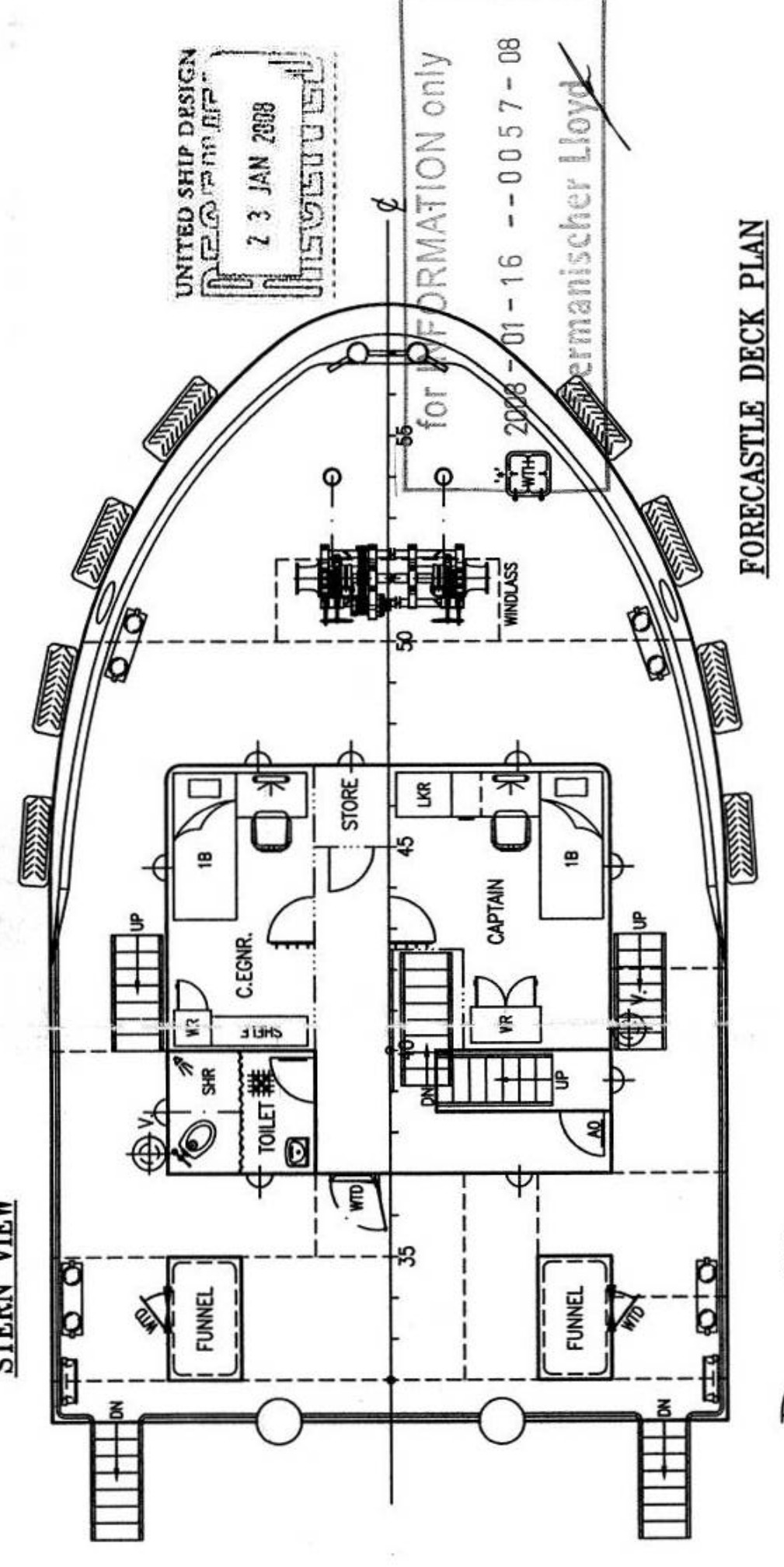
MAIN DECK PLAN



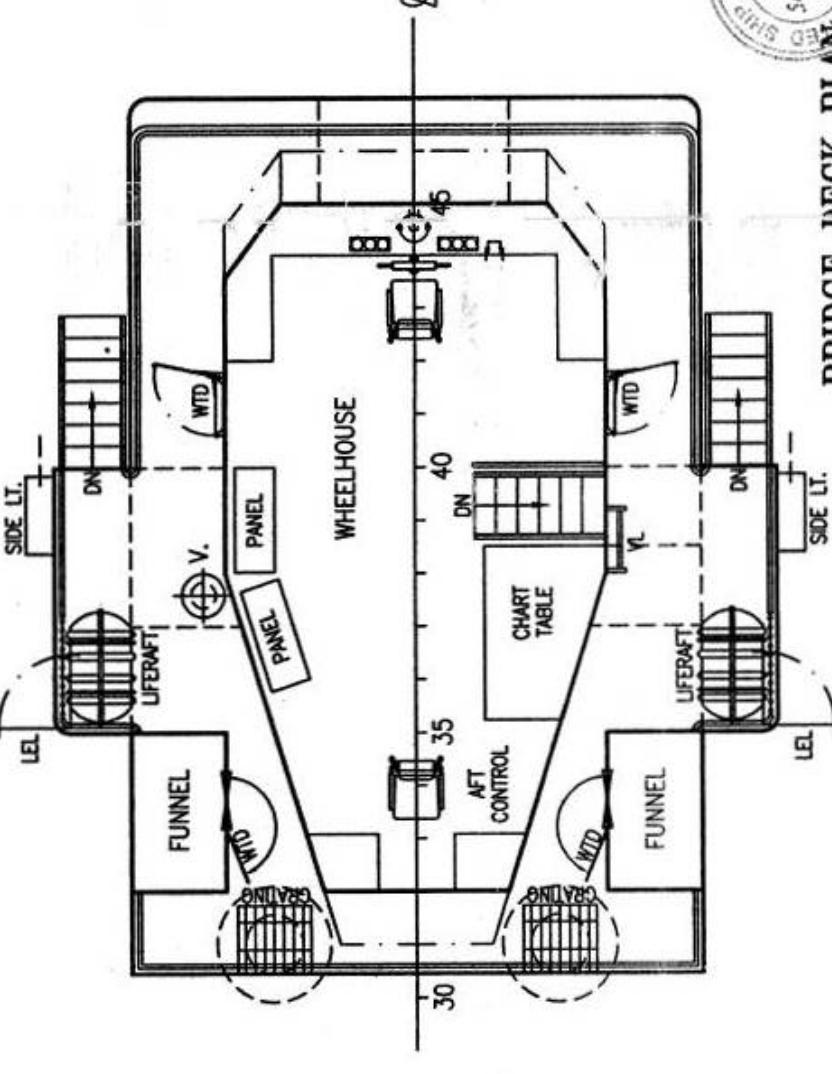
BELOW M.D.K. PLAN



STERN VIEW



FORECASTLE DECK PLAN



BRIDGE DECK PLAN

FOR APPROVAL

DATE	MODIFICATION	REV	BY
03.12.07	SLUDGE TK. BHD @FR.26 MOVE BACKWARD TO FR.25	A	WONG

UNITED SHIP DESIGN
(NAVAL ARCHITECTS)
NO.4, 1ST FLOOR, LORONG CENGAL 2,
96000 SIBU, SARAWAK, MALAYSIA.
TEL : +6084-325825, FAX : +6084-333825
EMAIL : usdesign@usdesign.com.my,
usdesign@dreamy.com

SHIP
32M TWIN SCREW TUG

GENERAL ARRANGEMENT

OWNER	SL. SHIPBUILDING CONTRACTOR	SIN. BHD.
BUILDER	GL	TO NO. 22, 23, 24 & 25
CLASS	CHECKED	APPROVED
WONG	T.K. WONG	1 : 75
14.07.07	14.07.07	US/350-G1(A)

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