

BESSIE

32M Twin Screw Tug

PRINCIPAL PARTICULARS

OPERATING AREAS	: Sea Areas 1 + 2 + 3
TYPE OF SHIP	: Ocean Going Twin Screw Tug
FLAG	: Singapore
OFFICIAL NUMBER	: 394414
CALL SIGN	: 9V7538
IMO NUMBER	: 9522996
CLASSIFICATION	: ABS (American Bureau of Shipping)
YEAR BUILT	: 2009
PLACE BUILT	: Wuhu Dajiang Shipbuilding, China
LENGTH OVERALL	: 32.00 m
REGISTERED LENGTH	: 30.14 m
BREADTH	: 9.20 m
DEPTH	: 4.60 m
DRAFT MAX. DESIGN	: 3.80 m
GRT / NRT	: 296 / 88



PROPULSION SYSTEM

MAIN ENGINES	: CATERPILLAR - CAT3512B 2 x 1,600 HP @ 1,600 rpm (2 x 1193kW)
GEAR BOX	: 2 x REINTJES WAF 665 / Ratio 5.571:1
GENERATOR	: 2 x CUMMINS 6CT8.3-D (M)
ALTERNATOR	: UCM274E STAMFORD 99kW/123.75kVA
FUEL OIL PURIFIER	: KYDR203CD-23 / 2.2kW 380V/50Hz
OILY WATER SEPARATOR	: USH-05 / 0.5m ³ /h
PROPELLERS	: 2 x SOLID 4 BLADES MANGANESE BRONZE Completed with MILD S KORT NOZZLE

PERFORMANCE

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

CARGO CAPACITIES

FUEL OIL	: Approx. 250.00 m ³
FRESH WATER	: Approx. 40.00 m ³
DIRTY TANK	: Approx. 3.80 m ³
ACCOMMODATION	: 12 Persons

STERN TUBES & SHAFTING

* Oil Lubrication Stern Tubes
* 2 x Length Stainless Steel (AISI 316) Tail Shaft

STEERING GEAR SYSTEMS

*Two (2) JAMSTRAM Type Twin S2-15-1-35
Torque 1.5TM per rudder / Rudder Angle: 35 / 35 degree
Steering Mode: Power, Elec., Twin Independent 3.0hp

TOWING

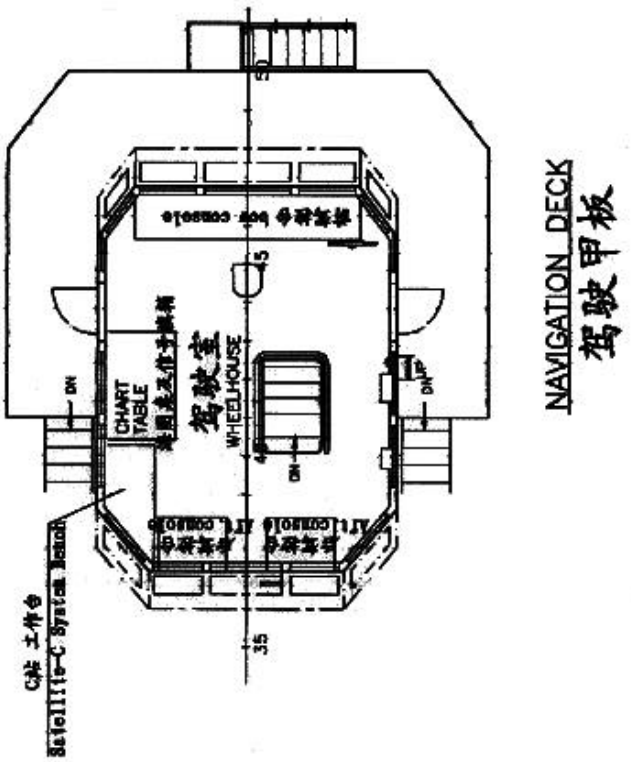
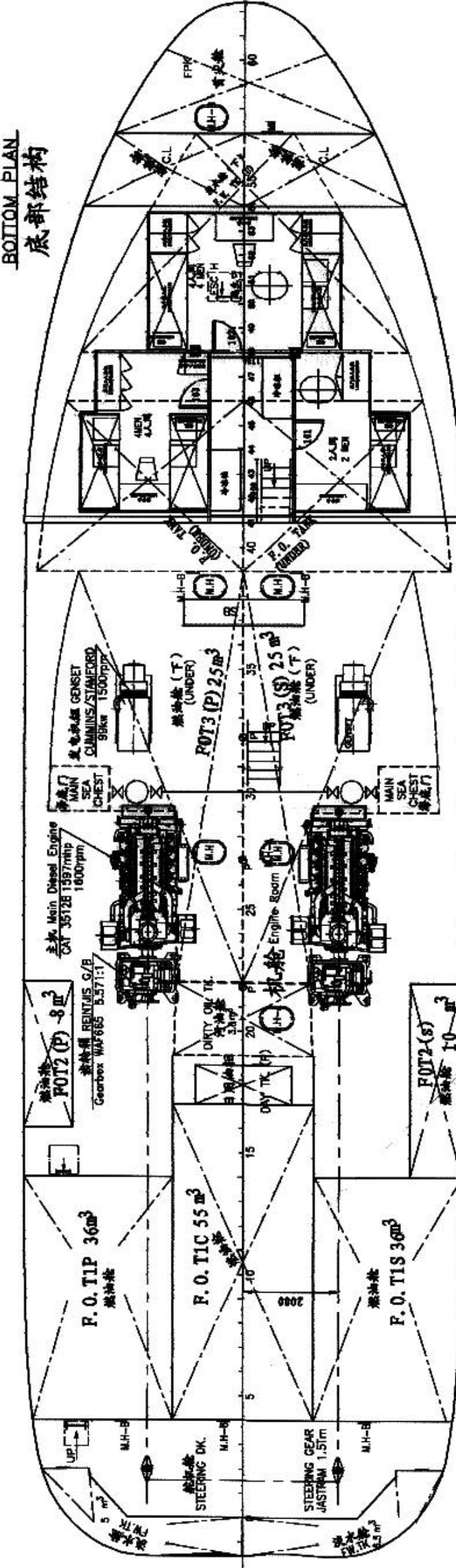
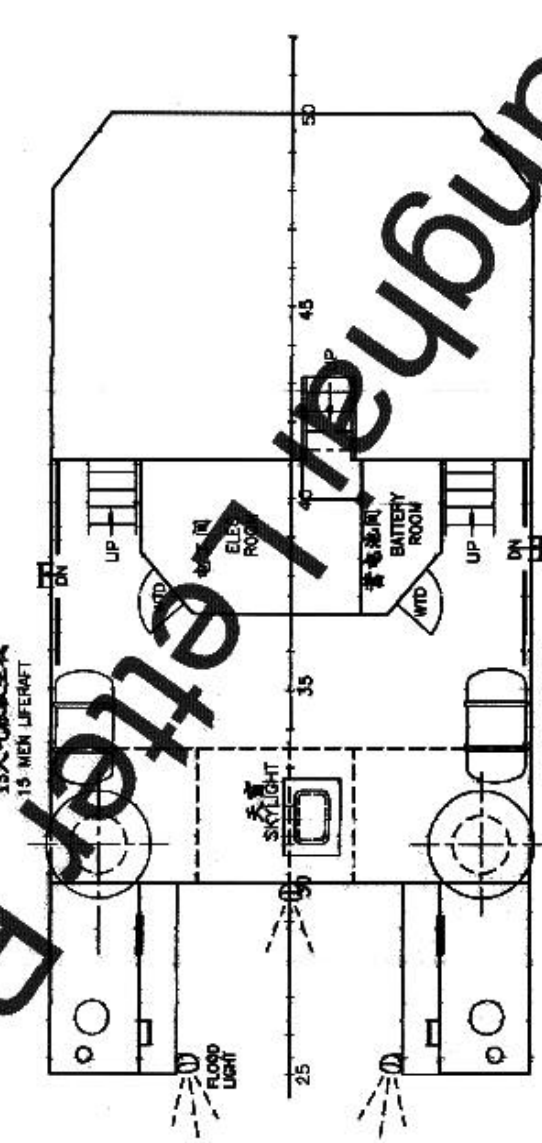
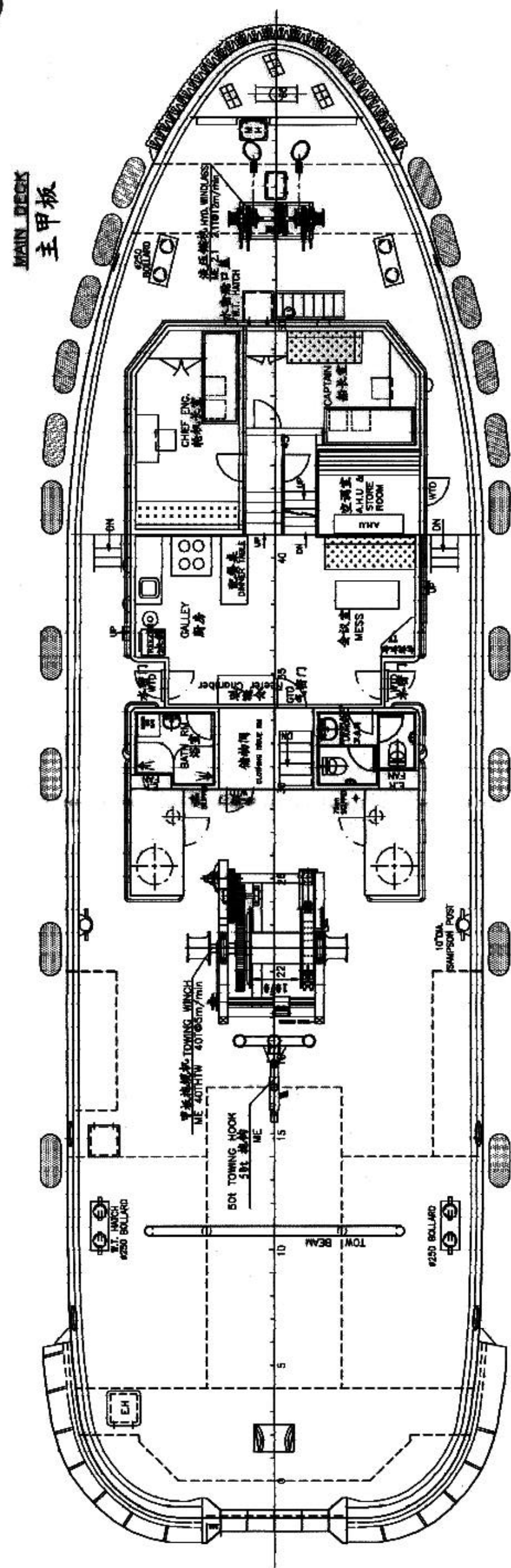
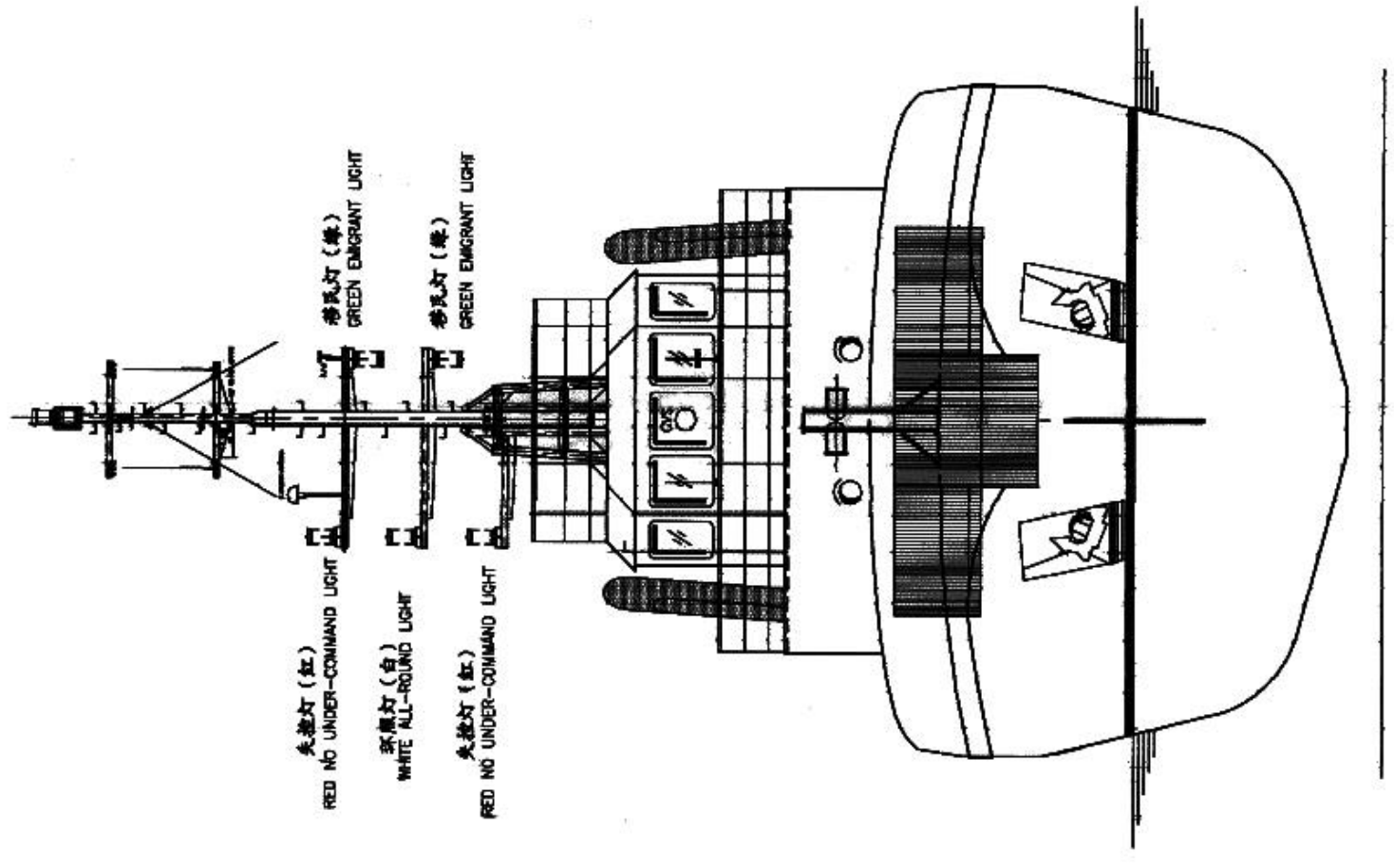
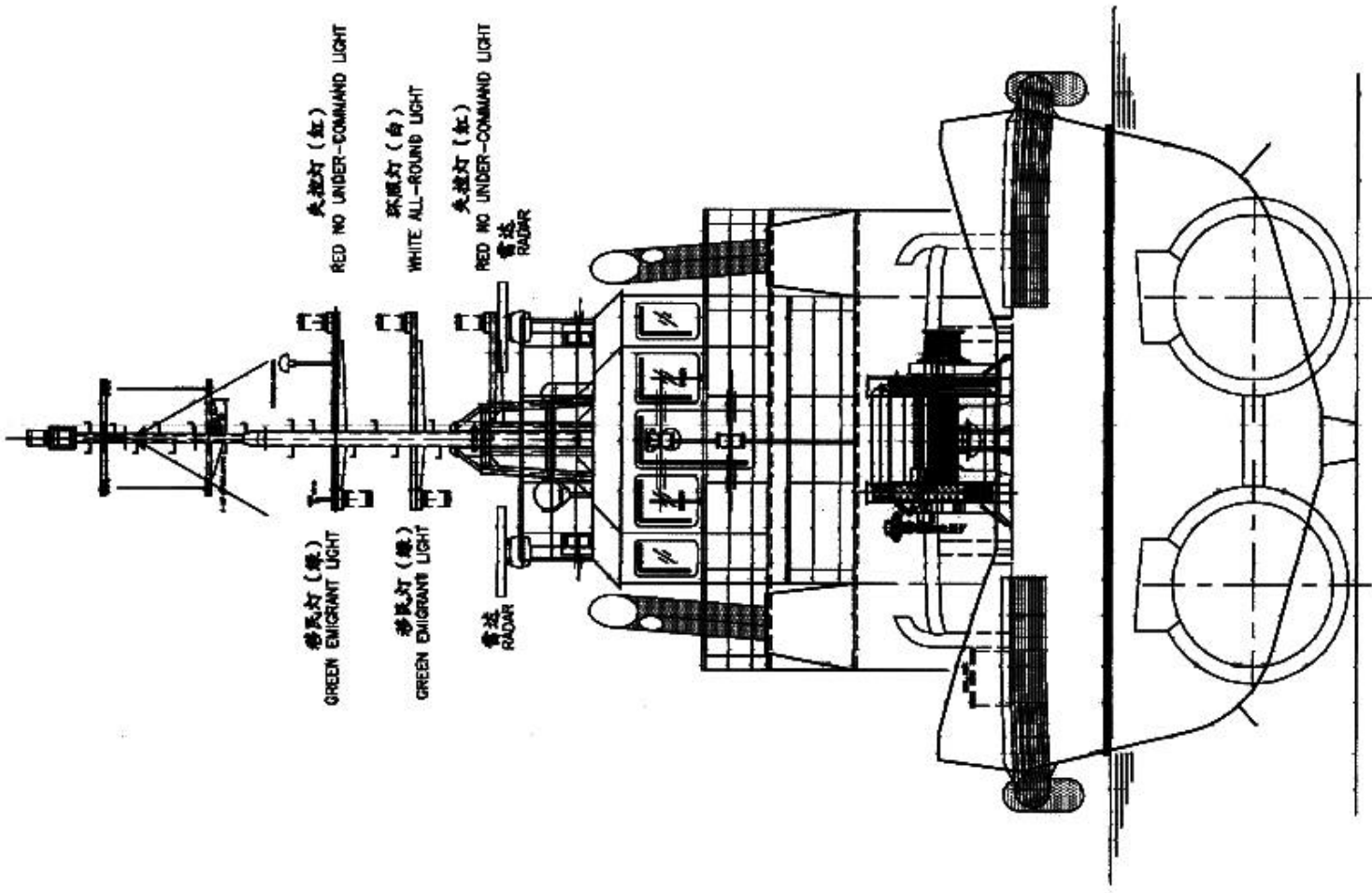
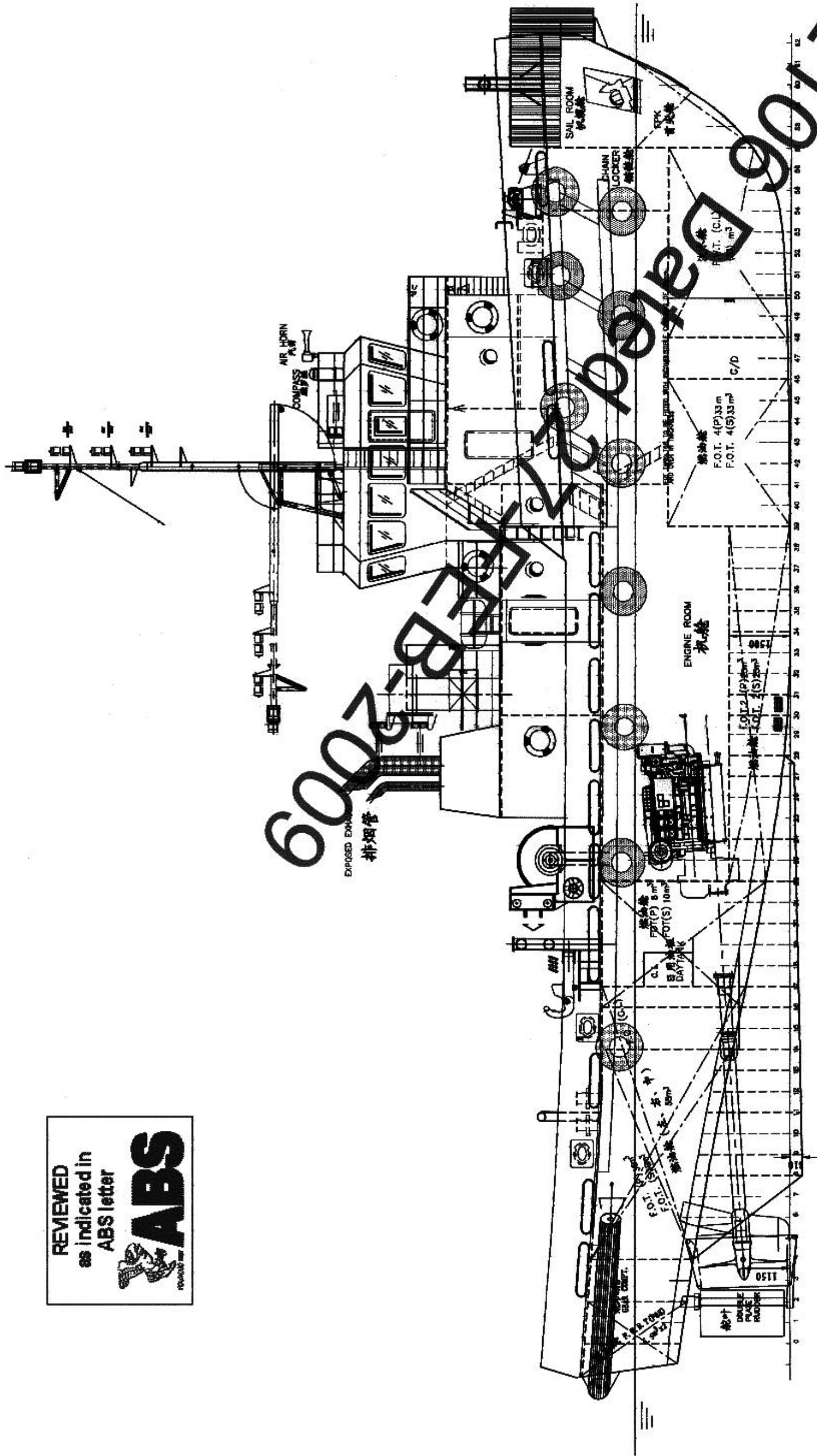
ANCHOR WINDLASS	: 1 x ME2.1THWL 3-T ELEC. HYD c/w Two warping drums. Windlass winding speed min. 12m/min
BOW ANCHOR	: 2 x Stockless each 480kgs
CHAIN CABLE	: 302.5m total length, 22mm dia, Grade 2
TOWING HOOK	: 50T SWL; remote quick release control
TOWING WINCH	: 1 x ME40THTW Electro Hydraulic Double warping ends + remote control / Static Brake Hold: 100MT 700mx44mm Galvd. Steel Wire Rope / 1x60kW (2x30kW) Eletr-Hyd. P.Pack

SOUND SIGNAL APPLIANCES & NAVIGATION EQUIPMENT

VHF RADIOTELEPHONE	: ICOM IC-M504
SSB TRANSCEIVER	: ICOM M710 / ATU130
24N MARINE RADAR	: FURUNO 1832
GPS NAVIGATOR	: FURUNO GP 150
ECHO SOUNDER	: FUSO FEC 609
NAVTEX RECEIVER	: MC MURDO NAV-7
WEATHER FAX	: FURUNO FX 408
MAGNETIC COMPASS	: SAURA KEIKI MR-150A
EPIRB	: MC MURDO SMART FIND E5
PUBLIC ADD./TALK BACK	: HANSHIN HPA-7306
MINI C / GPS TRACKING	: KVH eTRAC
MARITIME MINI-M	: KVH TRACPHONE 252
INTERCOM SYSTEM	: 6 STATIONS GALAXY PHONE
WIND ANEMOMETER	: RM YOUNG 05103-58 / 06206H
AUTO PILOT	: FURUNO NAV PILOT 500
AIS	: FURUNO MODEL FA-150

FIRE FIGHTING / LIFE SAVING APPLIANCES

LIFERAFT	: 2 x HNF-A15(96) for 15 Pax
LIFE BOUY	: SDF5556 (96) x 8 pieces
LIFE JACKET	: XY5564-1 x 17 pieces
FIREMAN'S OUTFIT	: DFXF-93-A x 1 set with accessories
BREATHING APP.	: RHZK-6/30-II x 1 set
FIRE EXTINGUISHER	: 9 x 9kg ABC Dry Powder 1 x 45litre Trolley Foam
PORTABLE FIRE PUMP	: CF170F / 4.5HP, 3600rpm



PRINCIPAL PARTICULARS
主要参数

LENGTH O.A 总长	32m
LENGTH W.L 设计水线长	31.14m
BEAM MLD. 型宽	9.20m
DEPTH MLD. AMIDSHIP 型深	4.60m
DRAFT DESIGNED 吃水	3.80m
GROSS TONNAGE 总吨	NOT MORE 300GT
MAIN ENGINE 主机	CATERPILLAR 3512B
GENNERY SETS 发电机组	1597HP/1600rpm X2 99KW/1500rpmX2
GENNERY SETS 发电机组	CUMMINS/STAMFORD
SPEED 航速	12.0KN
BOLLARD PULL 拖力	40T
COMPLEMENT 定员	12 MEN
F.O 燃油	250m ³
F.W 淡水	40m ³

CLASS AS ABS:

ABS Maltese Cross and the ABS Circle B towing service for unrestricted service

DATE	MODIFICATION	REV	BY
SHIP:	32M Ocean Tug 3200HP		
TITLE:	总布置图		
OWNER:	Sea Win Marine Pte Ltd		
BUILDER:			
WORKING NO.	YTHW62-201001001A		
CLASS	ABS		
DESIGNER:	烟台海文船舶工程有限公司		
Yantai HAWEN MARINE ENGINEERING & TECHNOLOGY CO., LTD.			
Tel: 86-0535-3992350	Fax: 86-0535-3992353	E-mail: ythw@163.net	
DRAWN	CHECKED	EXAMINED	SCALE
唐云红	梁桃平		
INSPECTED	APPROVED		
李建章			
1: 100			
SHEET			1/1