

GENERAL ARRANGEMENT AND CAPACITY PLAN M.V. COLUMBIA SCALE 1:200

LOADING

HOLD CAPACITY (γ) (t/m ³)		SALT WATER	
HOLD	ALL HOLDS LOADING	NO. 2 & 4	BALAST
NO. 1 CARGO HOLD	1.000	0.885	1.493
NO. 2 CARGO HOLD	1.000	0.885	1.493
NO. 3 CARGO HOLD	1.000	0.885	1.493
NO. 4 CARGO HOLD	1.000	0.885	1.493
NO. 5 CARGO HOLD	1.000	0.885	1.493
HOLD CAPACITY		BALAST	
NO. 1 CARGO HOLD	1.000	NO. 2 & 4	1.493
NO. 2 CARGO HOLD	1.000	NO. 3 CARGO HOLD	1.493
NO. 3 CARGO HOLD	1.000	NO. 4 CARGO HOLD	1.493
NO. 4 CARGO HOLD	1.000	NO. 5 CARGO HOLD	1.493
NO. 5 CARGO HOLD	1.000	TOTAL	
HOLD CAPACITY		BALAST	
NO. 1 CARGO HOLD	1.000	NO. 2 & 4	1.493
NO. 2 CARGO HOLD	1.000	NO. 3 CARGO HOLD	1.493
NO. 3 CARGO HOLD	1.000	NO. 4 CARGO HOLD	1.493
NO. 4 CARGO HOLD	1.000	NO. 5 CARGO HOLD	1.493
NO. 5 CARGO HOLD	1.000	TOTAL	
HOLD CAPACITY		BALAST	
NO. 1 CARGO HOLD	1.000	NO. 2 & 4	1.493
NO. 2 CARGO HOLD	1.000	NO. 3 CARGO HOLD	1.493
NO. 3 CARGO HOLD	1.000	NO. 4 CARGO HOLD	1.493
NO. 4 CARGO HOLD	1.000	NO. 5 CARGO HOLD	1.493
NO. 5 CARGO HOLD	1.000	TOTAL	

DEADWEIGHT SCALE

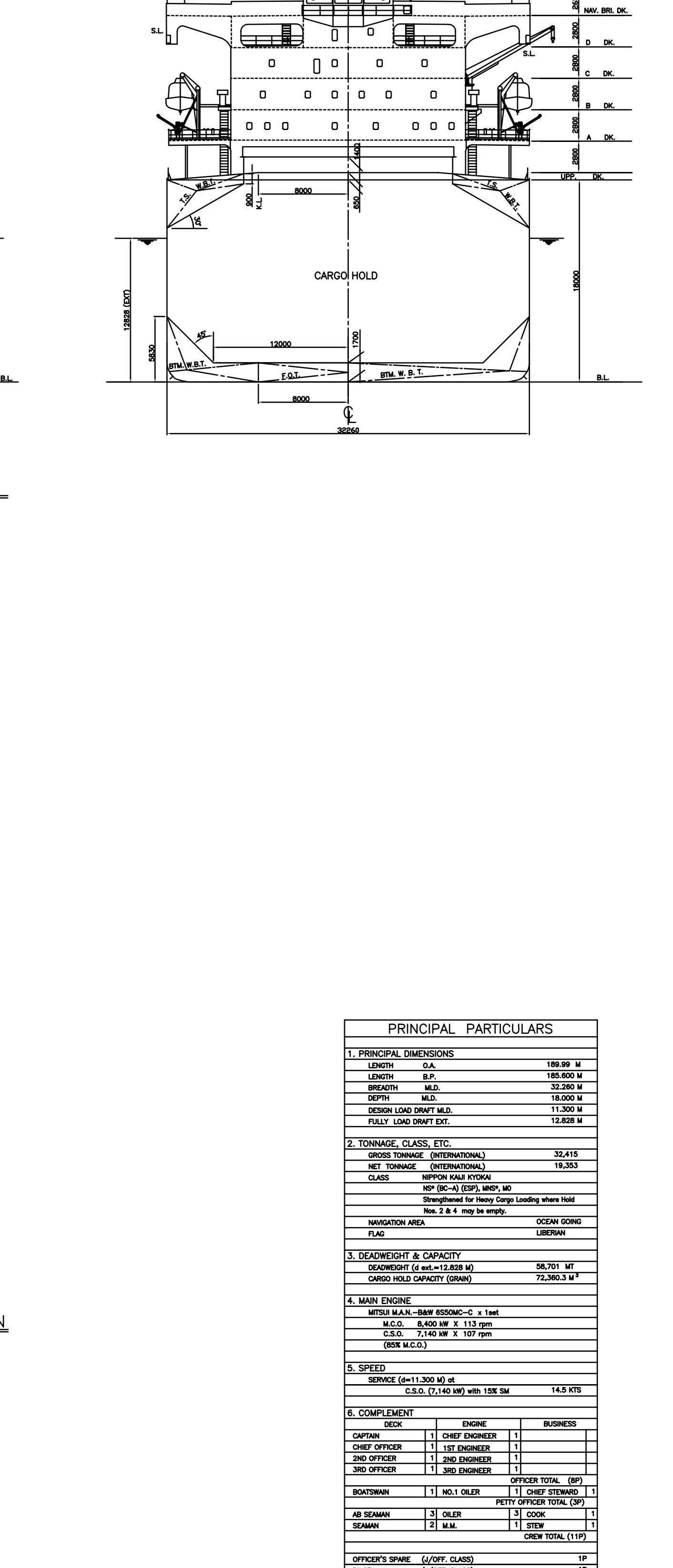
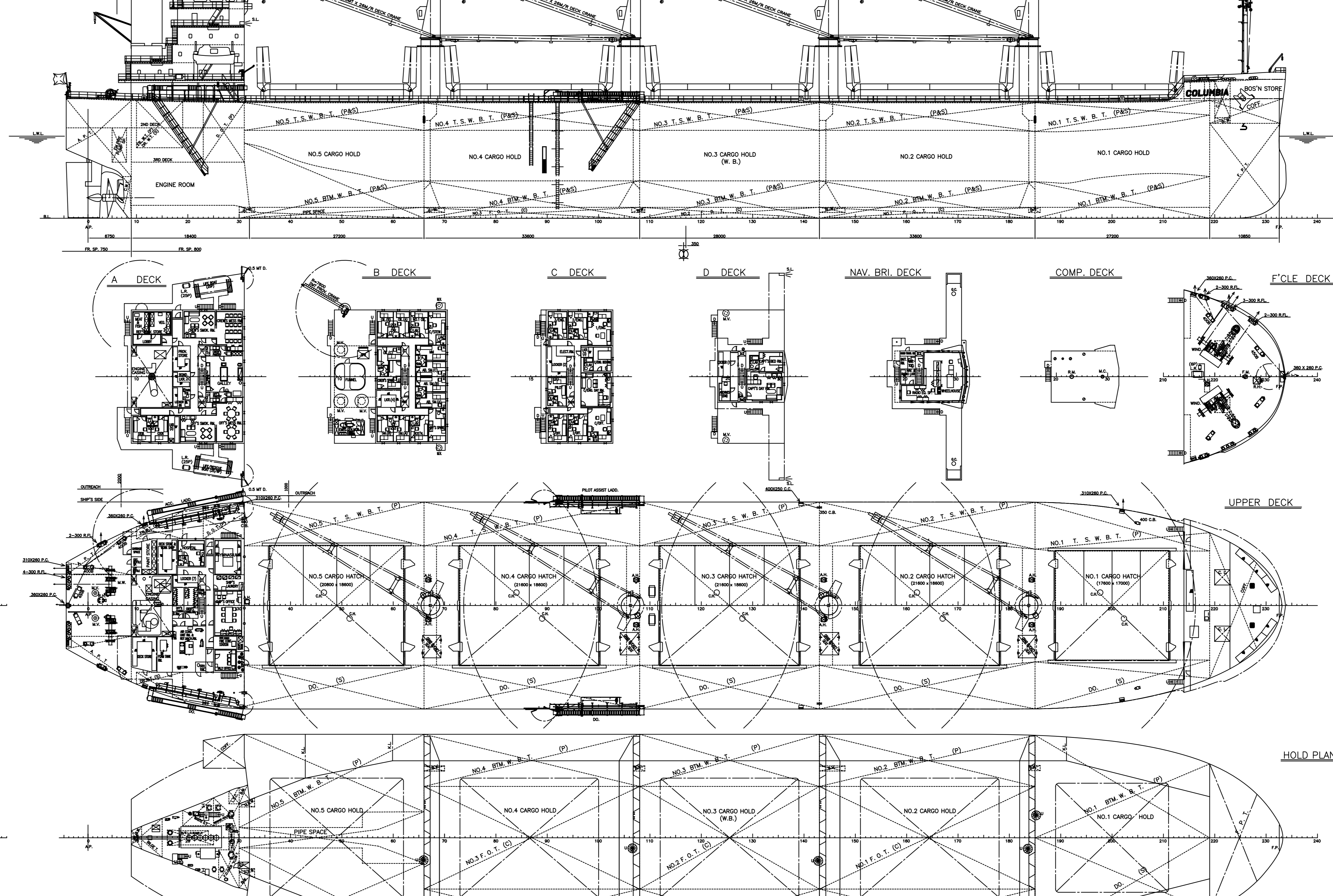
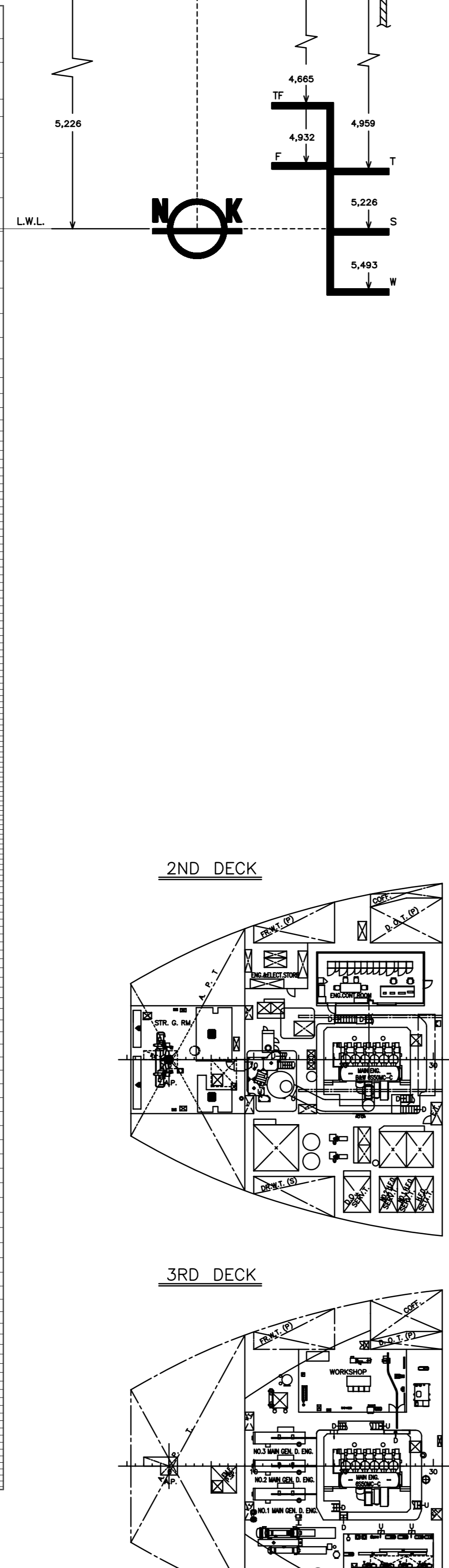
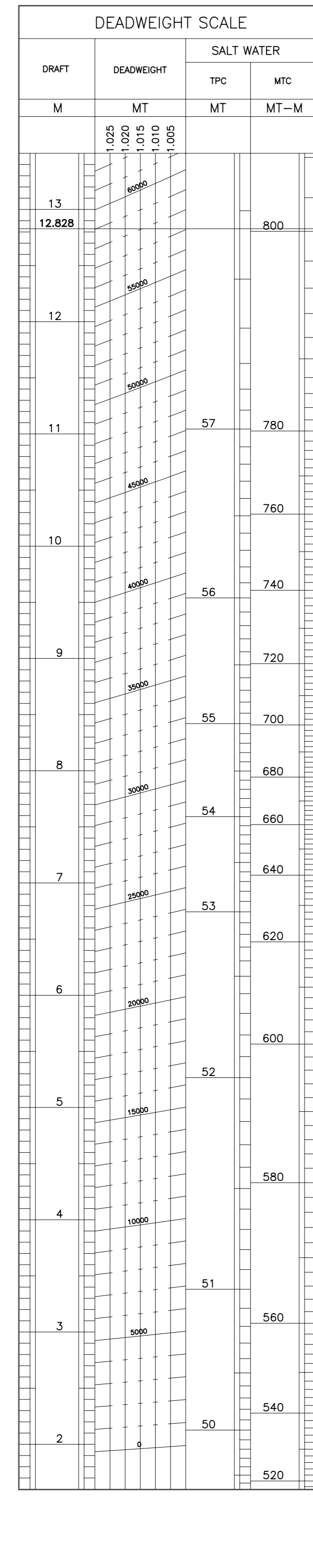
DRAFT	DEADWEIGHT		SALT WATER	
	M	MT	MT	MT-M
13	12828		800	
12				
11			57	780
10				760
9				740
8				720
7				700
6				680
5				660
4				640
3				620
2				600
1				580
0				560
				540
				520

TANK CAPACITY TABLE (HULL PART)

COMPARTMENT	LOCATION (FR. NO.)	CAPACITY (m ³)	WEIGHT (mt)	CENTER OF GRAVITY (m)	MAX. HEIGHT (m)
WATER BALLAST TANK	219 - F.E.	2,208.6	2,284	86.33	8.04
NO. 1 B.M.W.B.T.	P 185 - 219	895.9	918	67.81	1.72
NO. 1 T.S. & B.M.W.B.T.	S 185 - 219	1,294.4	1,327	67.16	6.38
NO. 2 B.M.W.B.T.	P 143 - 185	711.7	729	37.97	1.75
NO. 2 T.S. & B.M.W.B.T.	S 143 - 185	1,301.9	1,334	38.03	8.54
NO. 3 B.M.W.B.T.	P 108 - 143	598.2	611	7.16	1.76
NO. 3 T.S. & B.M.W.B.T.	S 108 - 143	1,083.3	1,110	7.16	8.49
NO. 4 B.M.W.B.T.	P 66 - 108	710.4	728	23.56	1.76
NO. 4 T.S. & B.M.W.B.T.	S 66 - 108	1,294.9	1,327	23.60	8.51
NO. 5 B.M.W.B.T.	P 30 - 66	758.6	778	54.62	2.24
NO. 5 T.S. & B.M.W.B.T.	S 30 - 66	1,245.6	1,277	54.50	7.90
AFT PEAK TK.	A.E. - 9	1,157.8	1,187	90.14	13.46
SUB. TOTAL		15,808.4	16,201		
NO. 3 CARGO HOLD (W.B.)	108 - 143	14,872.4	15,093	-7.14	10.30
WATER BALLAST TOTAL		30,443.6	31,204		
FRESH WATER TANK					
FRESH WATER TK.	P 10 - 19	160.0	160	81.17	14.83
DRAIN WATER TK.	S 10 - 19	160.0	160	81.17	14.83
FRESH WATER TOTAL		320.0	320		

TANK CAPACITY TABLE (MACHINERY PART)

COMPARTMENT	FR. NO.	CAPACITY (m ³)	WEIGHT (mt)	CENTER OF GRAVITY (m)	MAX. HEIGHT (m)
FUEL OIL TANK	C 143 - 185	894.1	858.1	37.89	0.85
NO. 2 FUEL OIL TANK	C 108 - 143	746.4	716.5	67.0	3.11
NO. 3 FUEL OIL TANK	C 66 - 108	893.5	857.8	80.2	23.85
F.O. SERV. TK.	S 28 - 30	25.4	24.4	23	70.05
NO. 1 F.O. SERV. TK.	S 28 - 29	26.6	25.5	24	71.05
NO. 2 F.O. SERV. TK.	S 24 - 28	26.6	25.5	24	73.25
FUEL OIL TOTAL		2,612.9	2,508.3	2,346	
DIESEL OIL TANK	P 23 - 31	188.8	181.2	163	71.52
DIESEL OIL SERV. TK.	S 20 - 23	17.5	16.8	15	76.05
DIESEL OIL TOTAL		206.3	198.0	178	
LUB. OIL TANK	C 16 - 25	14.6	14.0	13	77.55
MISCELLANEOUS TANK	P 26 - 30	30.2		70.67	1.10
F.O. OVERFLOW TK.	P 25 - 30	31.9		71.11	1.09
WASTE OIL TK.	P 19 - 25	21.9		75.32	1.18
BLAST. W. TK.	P 7 - 15	20.9		82.89	1.11
COOL. W. TK.	P 7 - 15	8.5		86.92	3.35



PRINCIPAL PARTICULARS

1. PRINCIPAL DIMENSIONS		
LENGTH	188.99 M	
BREADTH	32.380 M	
DEPTH	16.300 M	
DESIGN LOAD DRAFT MID.	11.300 M	
FULLY LOADED DRAFT EXT.	13.828 M	
2. TONNAGE, CLASS, ETC.		
GROSS TONNAGE (INTERNATIONAL)	32,418	
NET TONNAGE (INTERNATIONAL)	16,253	
CLASS	REGINA KALY INTONAL	
3. DEADWEIGHT & CAPACITY		
DEADWEIGHT (at 1.020 M draft)	58,701 MT	
CARGO HOLD CAPACITY (GROSS)	72,363.3 m ³	
4. MAIN ENGINE		
MITSUBISHI M.A.L. - MAR. ENGINE - C	11,400 kW	
M.C.O.	840 RPM x 113 mm	
C.L.C.	7.140 M x 1.07 mm	
(BORN M.C.O.)		
5. SPEED		
SERVICE (at 1.200 M draft)	14.5 KTS	
6. CREW COMPLEMENT		
DECK	ENGINE	BUSINESS
CAPTAIN	1 CHIEF ENGINEER	1
CHIEF OFFICER	1 2ND ENGINEER	1
2ND OFFICER	1 3RD ENGINEER	1
3RD OFFICER	1 4TH ENGINEER	1
OFFICER TOTAL (GP)		
BOATMAN	11 NO. 1 OILER	11 CHIEF STEWARD
AB SEAMAN	31 OILER	31 CHIEF OFFICER TOTAL (GP)
SEAMAN	51 MAN	11 STEW
CREW TOTAL (11P)		
OFFICER'S SHARE (U/OFF. CLASS)		
PILOT	(U/OFF. CLASS)	1P
CHIEF'S SHARE	(U/OFF. CLASS)	1P
GRAND TOTAL 22P		

DESIGN: 29th June, 2008
 LAUNCHED: 29th Dec., 2008
 DELIVERED: 31st Mar., 2009