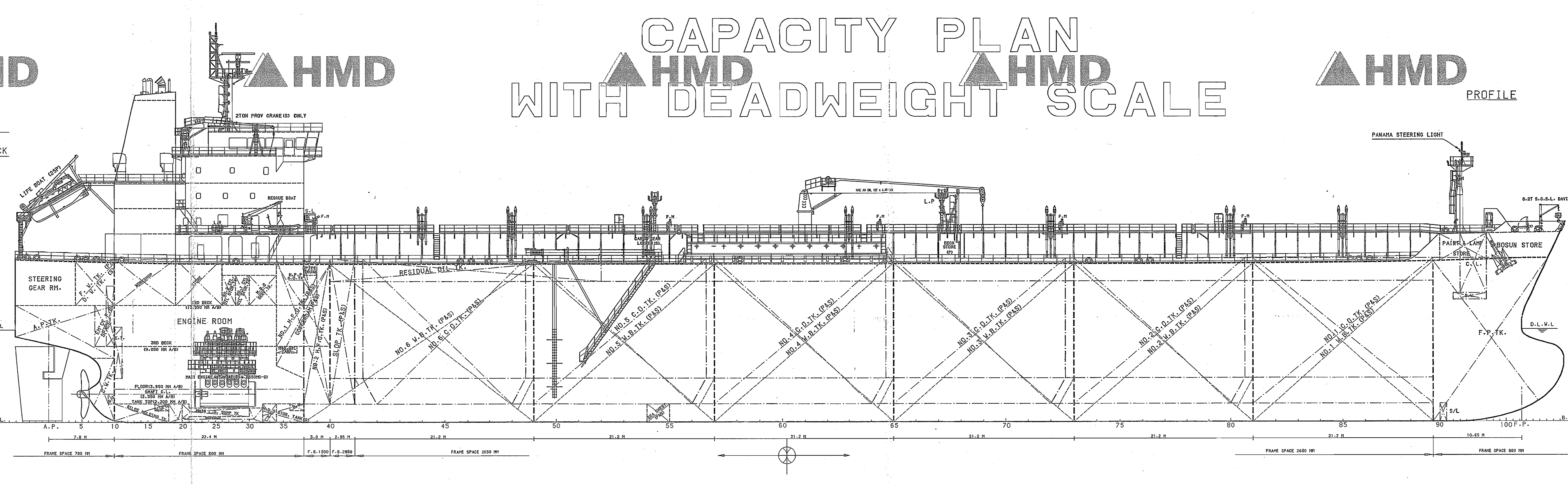
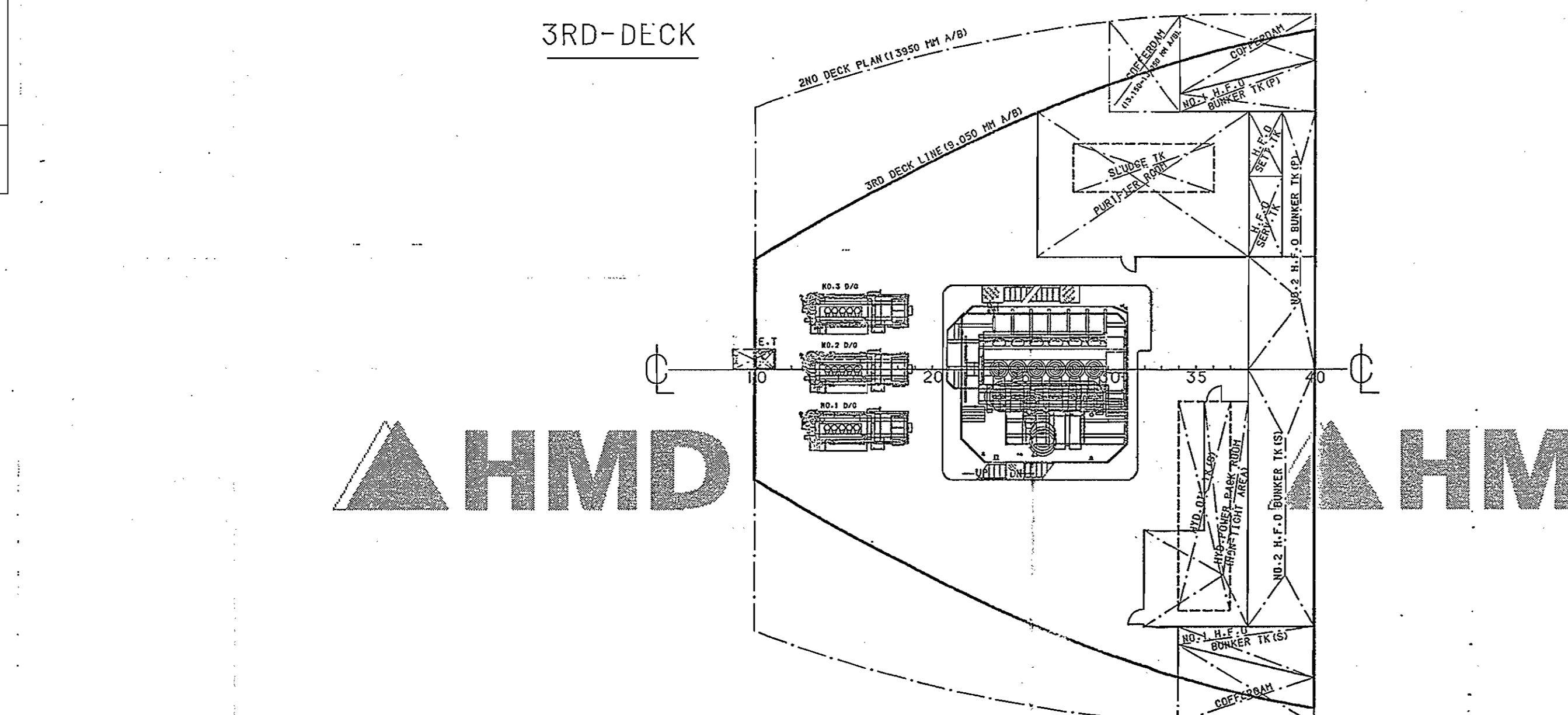
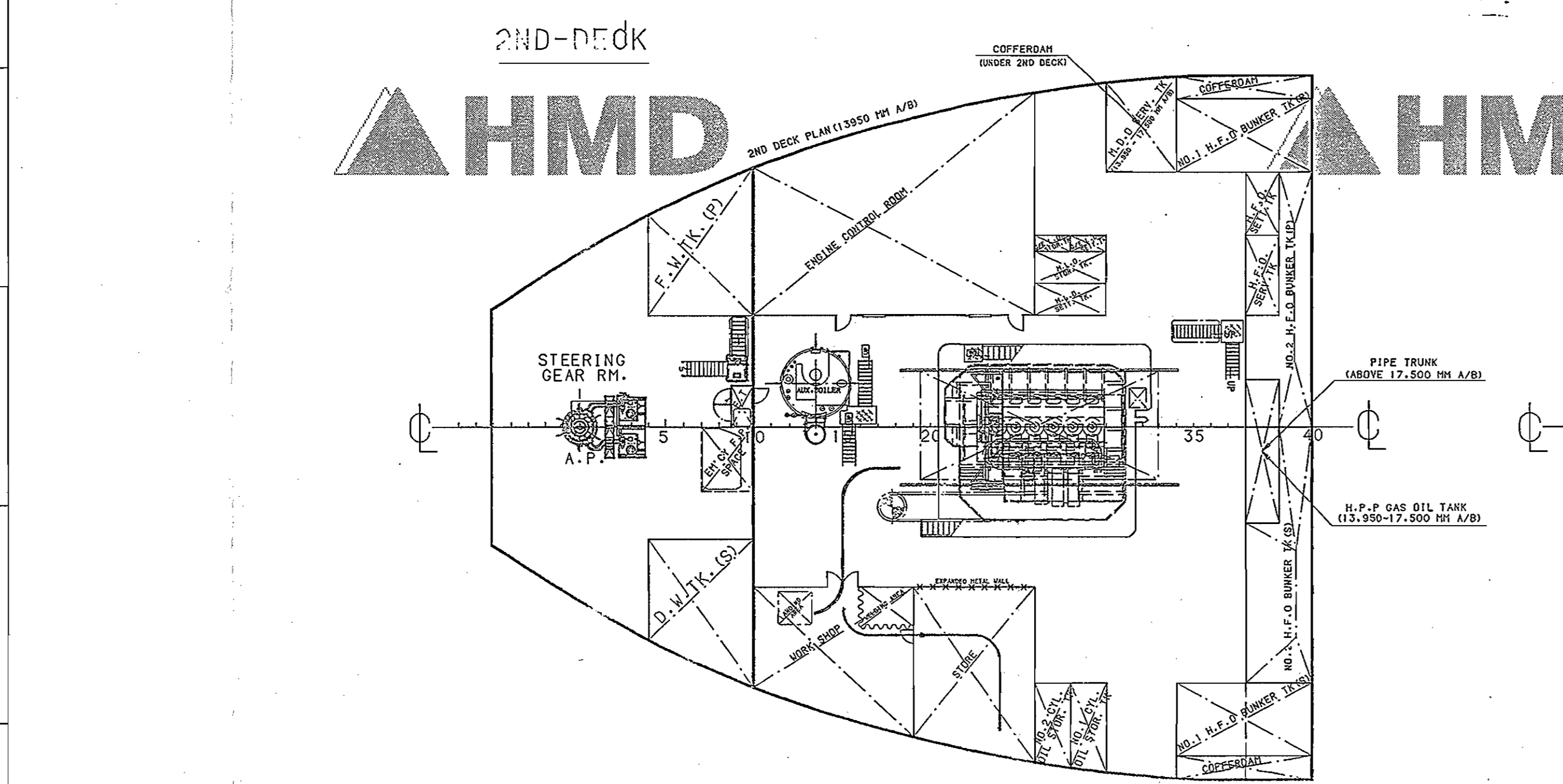
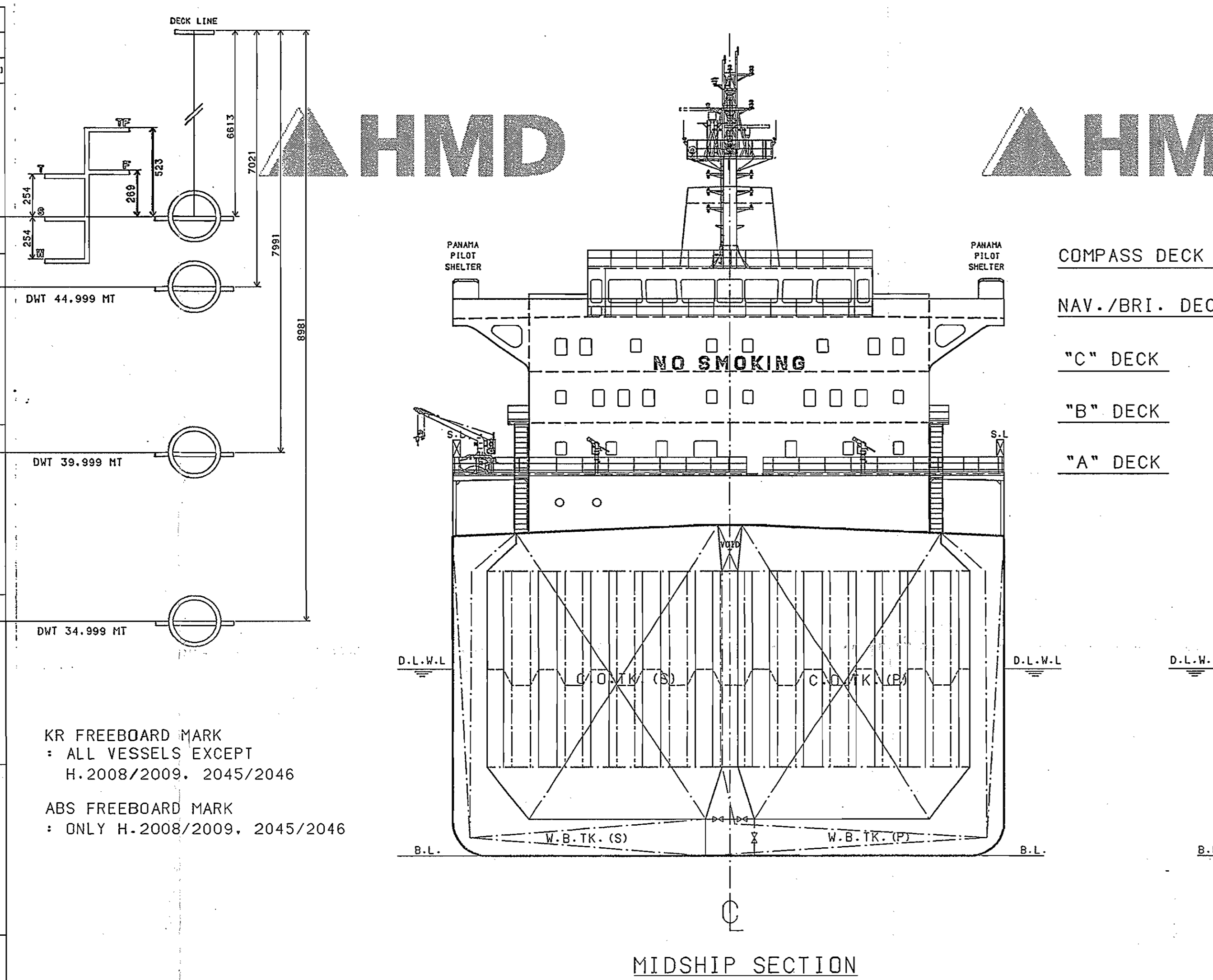


SEASONAL FREEBOARD	DRAFT (M)	DISPLACEMENT (TON)	DEADWEIGHT (TON)	
S	7021	11,808	54151	44999

SEASONAL FREEBOARD	DRAFT (M)	DISPLACEMENT (TON)	DEADWEIGHT (TON)	
S	7991	10,838	49151	39999

SEASONAL FREEBOARD	DRAFT (M)	DISPLACEMENT (TON)	DEADWEIGHT (TON)	
S	8981	9,848	44151	34999

INTERNATIONAL TONNAGE	GROSS TONNAGE	NET TONNAGE
	29266	12026



CARGO TANKS					
COMPARTMENTS	LOCATION (FRAME)	VOLUME 100% (M3)	WEIGHT (MT)	CENTER OF GRAVITY	
				V.C.G. FROM B.L. (M)	L.C.G. FROM MIDSHIP (M)
NO.1 C.O.T.K. (S)	81.0-89.0	3450.9	3381.9	11.106	84.25
NO.1 C.O.T.K. (P)	81.0-89.0	3450.9	3381.9	11.106	84.25
NO.2 C.O.T.K. (S)	73.0-81.0	4862.6	4569.4	10.831	43.90
NO.2 C.O.T.K. (P)	73.0-81.0	4862.6	4569.4	10.831	43.90
NO.3 C.O.T.K. (S)	65.0-73.0	4753.9	4658.8	10.821	22.81
NO.3 C.O.T.K. (P)	65.0-73.0	4753.9	4658.8	10.821	22.81
NO.4 C.O.T.K. (S)	57.0-65.0	4753.9	4658.8	10.821	1.61
NO.4 C.O.T.K. (P)	57.0-65.0	4753.9	4658.8	10.821	1.61
NO.5 C.O.T.K. (S)	49.0-57.0	4743.3	4650.4	10.874	19.52
NO.5 C.O.T.K. (P)	49.0-57.0	4743.3	4650.4	10.874	19.52
NO.6 C.O.T.K. (S)	41.0-49.0	4116.4	4034.1	11.563	85.90
NO.6 C.O.T.K. (P)	41.0-49.0	4116.4	4034.1	11.563	85.90
SLOP. TK. (S)	40.0-41.0	899.4	587.4	11.909	-52.13
SLOP. TK. (P)	40.0-41.0	899.4	587.4	11.909	-52.13
TOTAL		54164.9	53081.6	10.971	9.37

RESIDUAL OIL TANK					
COMPARTMENTS	LOCATION (FRAME)	VOLUME 100% (M3)	WEIGHT (MT)	CENTER OF GRAVITY	
				V.C.G. FROM B.L. (M)	L.C.G. FROM MIDSHIP (M)
RESIDUAL OIL TK.	40.0-52.0	105.0	102.9	18.188	-37.75
TOTAL		105.0	102.9	18.188	-37.75

BALLAST TANKS					
COMPARTMENTS	LOCATION (FRAME)	VOLUME 100% (M3)	WEIGHT (MT)	CENTER OF GRAVITY	
				V.C.G. FROM B.L. (M)	L.C.G. FROM MIDSHIP (M)
F.P. TK.	89.0-93.0	2428.2	2483.7	10.877	81.17
NO.1 W.B.T.K. (S)	81.0-89.0	1541.8	1500.4	8.382	65.80
NO.1 W.B.T.K. (P)	81.0-89.0	1541.8	1500.4	8.382	65.80
NO.2 W.B.T.K. (S)	73.0-81.0	1541.0	1479.6	6.428	44.98
NO.2 W.B.T.K. (P)	73.0-81.0	1541.0	1479.6	6.428	44.98
NO.3 W.B.T.K. (S)	65.0-73.0	1521.6	1459.6	6.130	23.75
NO.3 W.B.T.K. (P)	65.0-73.0	1521.6	1459.6	6.130	23.75
NO.4 W.B.T.K. (S)	57.0-65.0	1521.6	1459.6	6.130	2.55
NO.4 W.B.T.K. (P)	57.0-65.0	1521.6	1459.6	6.130	2.55
NO.5 W.B.T.K. (S)	49.0-57.0	1503.8	1441.4	6.205	18.60
NO.5 W.B.T.K. (P)	49.0-57.0	1503.8	1441.4	6.205	18.60
NO.6 W.B.T.K. (S)	38.0-49.0	1959.7	2008.7	6.588	-42.14
NO.6 W.B.T.K. (P)	38.0-49.0	1959.7	2008.7	6.588	-42.14
A.P. TK.	46.0-10.0	710.2	727.9	11.526	84.10
TOTAL		23882.6	24489.9	6.938	14.81

FRESH WATER TANKS					
COMPARTMENTS	LOCATION (FRAME)	VOLUME 100% (M3)	WEIGHT (MT)	CENTER OF GRAVITY	
				V.C.G. FROM B.L. (M)	L.C.G. FROM MIDSHIP (M)
D.W. TK. (S)	4.0-10.0	138.6	138.6	18.556	-81.40
F.W. TK. (P)	4.0-10.0	137.0	137.0	18.529	-81.41
S/T C.W. TK.	6.2-10.0	17.2	17.2	3.440	-80.11
TOTAL		292.8	292.8	15.773	-81.33

FUEL OIL TANKS					
COMPARTMENTS	LOCATION (FRAME)	VOLUME 100% (M3)	WEIGHT (MT)	CENTER OF GRAVITY	
				V.C.G. FROM B.L. (M)	L.C.G. FROM MIDSHIP (M)
NO.1 H.F.O. TK. (S)	34.0-40.0	176.3	171.5	14.422	-56.83
NO.1 H.F.O. TK. (P)	34.0-40.0	176.3	171.5	14.422	-56.83
NO.2 H.F.O. TK. (S)	38.0-40.0	531.5	515.6	10.636	-55.24
NO.2 H.F.O. TK. (P)	38.0-40.0	531.5	515.6	10.636	-55.24
NO.3 H.F.O. TK. (S)	38.0-40.0	438.0	431.4	10.122	-59.10
NO.3 H.F.O. TK. (P)	38.0-40.0	438.0	431.4	10.122	-59.10
NO.4 H.F.O. TK. (S)	38.0-39.0	36.3	35.2	13.275	-56.05
NO.4 H.F.O. TK. (P)	38.0-39.0	36.3	35.2	13.275	-56.05
NO.5 H.F.O. TK. (S)	38.0-39.0	36.3	35.2	13.275	-56.05
NO.5 H.F.O. TK. (P)	38.0-39.0	36.3	35.2	13.275	-56.05
NO.6 H.F.O. TK. (S)	38.0-39.0	36.3	35.2	13.275	-56.05
NO.6 H.F.O. TK. (P)	38.0-39.0	36.3	35.2	13.275	-56.05
TOTAL		1418.1	1375.8	11.568	-55.64

M.D.O. TANKS					
COMPARTMENTS	LOCATION (FRAME)	VOLUME 100% (M3)	WEIGHT (MT)	CENTER OF GRAVITY	
				V.C.G. FROM B.L. (M)	L.C.G. FROM MIDSHIP (M)
H.F.O. OVERFLOW TK. (P)	34.0-38.0	18.6	18.0	1.274	-58.38
TOTAL		18.6	18.0	1.274	-58.38

L.O. TANKS					
COMPARTMENTS	LOCATION (FRAME)	VOLUME 100% (M3)	WEIGHT (MT)	CENTER OF GRAVITY	
				V.C.G. FROM B.L. (M)	L.C.G. FROM MIDSHIP (M)
H.L.O. SETTL. TK. (P)	26.0-30.0	16.3	14.3	15.728	-44.80
H.L.O. STOR. TK. (P)	26.0-30.0	16.3	14.3	15.728	-44.80
G/E L.O. SETTL. TK. (P)	26.0-30.0	4.1	3.6	15.728	-64.00
G/E L.O. STOR. TK. (P)	26.0-30.0	4.1	3.6	15.728	-64.00
H.F.O. SERV. TK. (P)	20.0-20.0	23.2	19.5	15.725	-63.80
NO.2 CYL. OIL STOR. TK. (S)	18.0-28.0	20.9	18.4	15.725	-65.59
NO.2 CYL. OIL STOR. TK. (P)	18.0-28.0	20.9	18.4	15.725	-65.59
NO.1 L.O. STOR. TK. (S)	20.0-30.0	19.3	17.0	1.229	-87.43
NO.1 L.O. STOR. TK. (P)	20.0-30.0	19.3	17.0	1.229	-87.43
TOTAL		103.0	90.8	13.070	-65.26

MISC. TANKS					
COMPARTMENTS	LOCATION (FRAME)	VOLUME 100% (M3)	WEIGHT (MT)	CENTER OF GRAVITY	
				V.C.G. FROM B.L. (M)	L.C.G. FROM MIDSHIP (M)
BILGE HOLDING TK.	10.0-18.0	41.0	36.2	1.199	-75.57
S/T L.O. STOR. TK. (S)	18.0-18.0	1.7	1.5	1.809	-73.58
OILY BILGE TK. (P)	18.0-26.0	17.0	15.0	1.369	-68.88
SLUDGE TK. (P)	28.0-28.0	11.0	9.7	8.651	-61.60
HYD. OIL TK. (S)	34.0-37.0	17.9	15.8	8.650	-59.80
TOTAL		88.6	78.1	3.670	-69.13

PLAN HISTORY					
DATE	REV.	MARK	DESCRIPTION	DRAWN	CHECKED/APPROVED
JUN-28-2003	01		ORIGINALLY PREPARED FOR APPROVAL		
APR-19-2007	01		REFLECTED THE TANK VOLUME AND DEADWEIGHT SCALE BASED ON PROVISIONAL TANK & STABILITY BOOKLET (NO. 44000011, REV.13)		
DEC-17-2007	FINAL		FINALLY PREPARED FOR FINISHED PLAN.		

PRINCIPAL PARTICULARS					
LENGTH	D.	A.	183.21 M		
LENGTH	B.	P.	174.00 M		
BREADTH	MLD.		32.20 M		
DEPTH	MLD.		18.80 M		
DRAFT	DESIGN	MLD.	11.00 M		
	SCANT.	MLD.	12.20 M		
	SCANT.	EXT.	12.216 M		

MAIN ENGINE : HYUNDAI-B&W 6S50HC-C  
 NCR : 9-480 KW X 127.0 RPM  
 NCR : 8-532 KW X 122.6 RPM  
 SERVICE SPEED AT DESIGN DRAFT : 15.2 KNOTS  
 (NCR WITH 15% SEA MARGIN)

CLASSIFICATION :  
 1) KR (EXCEPT H-2008/009, 2045/046)  
 KR-S1-011/Chemical Tanker(Double Hull) 'ESP' (IBC)  
 HWSI-LWA, COW, STOW, IGS, ENV(IAFS, IOPF, ISPP, IAPP, VEC-1, VEC-2)  
 2) ABS (H-2009/009, 2045/045) ONLY  
 441-011/Chemical Carriers  
 HWS, HACCU, VEC-1 with the exceptions of ESP.  
 IMO TypeS, COW, UMLD

FINISHED PLAN  
 0455 ATLANTIC FRONTIER  
 HONG KONG  
 25-6P

APPROVED: H. S. HANG  
 CHECKED: S. H. OH  
 DRAWN: J. B. JIM

SCALE: 1/200  
 SHEET NO: 14000002  
 TOTAL SHEETS: 3