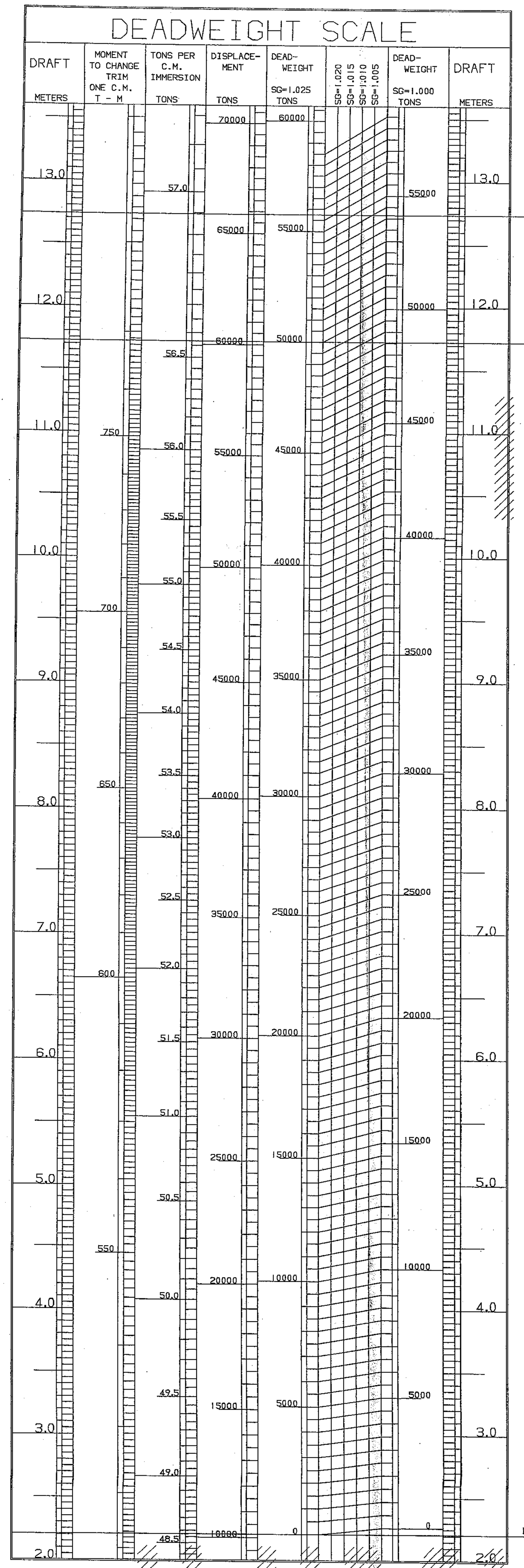
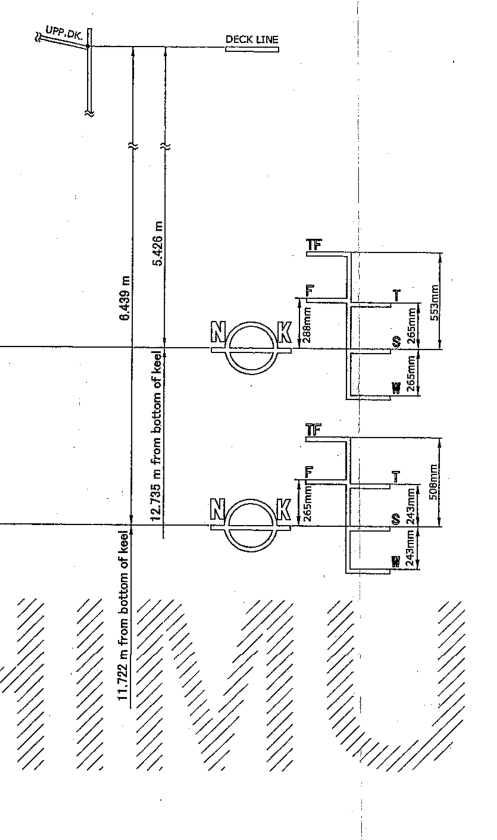
CAPACITY PLAN & DEADWEIGHT SCALE





D/W=55,747 T

WATER ZONE		SUMMER	TROPICAL	TROPICAL FRESH	FRESH	WINTER
TOTAL DEPTH	(M)			18.161		
FREEBOARD	(M)	5.426	5.161	4.873	5.138	5.691
DRAFT (EXT.)	(M)	12.735	13.000	13.288	13.023	12.470
DISPLACEMENT	(T)	65,878	67,388 *	67,348 **	65,872	64,370
LIGHT WEIGHT	(T)			10,131		
DEADWEIGHT	(T)	55,747	57,257	57,217	55,741	54,239
DEADWEIGHT	(LT)	54,867	56,353	56,313	54,861	53,382

TROPICAL FRESH 69,032 × 1.000/1.025 = 67,348 (T) *

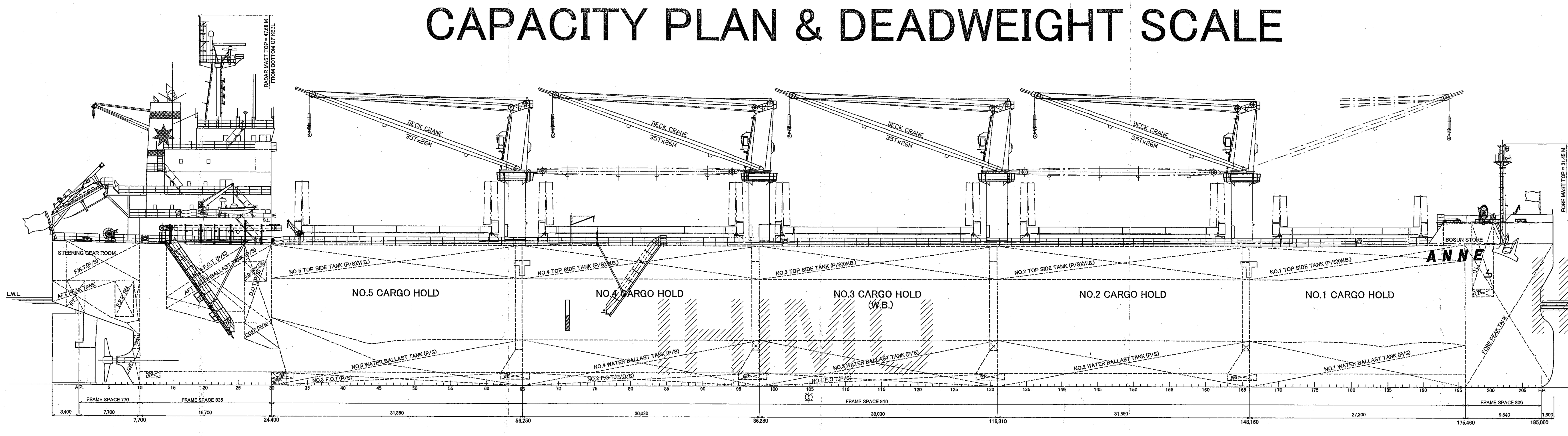
FRESH 67,519 × 1.000/1.025 = 65,872 (T) **

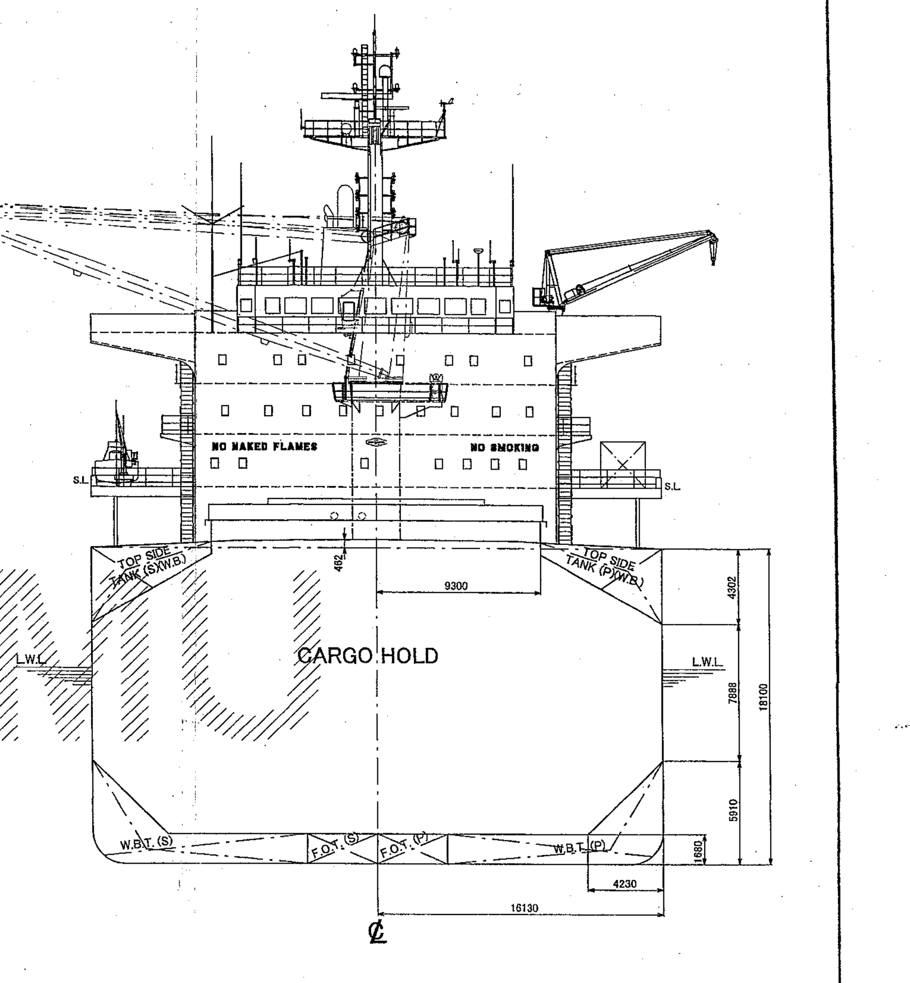
D/W=49,995 T

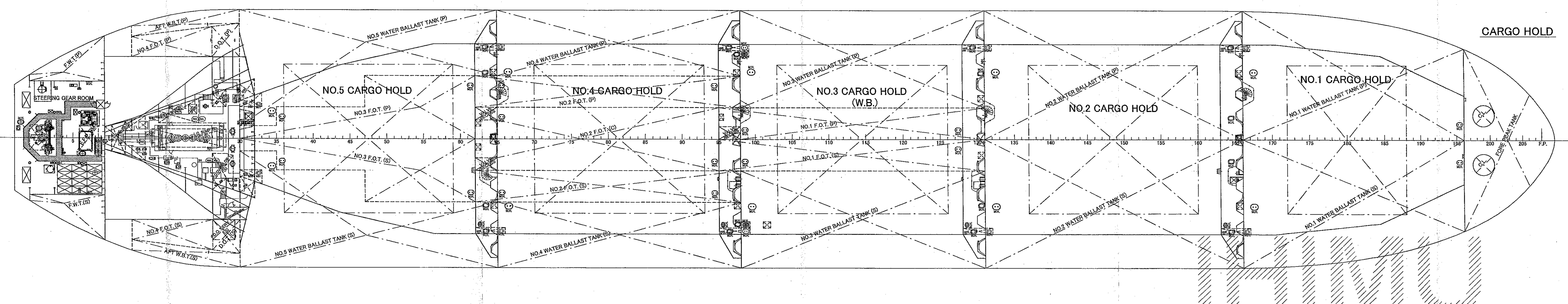
WATER ZONE		SUMMER	TROPICAL	TROPICAL FRESH	FRESH	WINTER
TOTAL DEPTH	(M)			18.161		
FREEBOARD	(M)	6.439	6.196	5.931	6.174	6.682
DRAFT (EXT.)	(M)	11.722	11.965	12.230	11.987	11.479
DISPLACEMENT	(T)	60,126	61,503 *	61,469 **	60,124	58,753
LIGHT WEIGHT	(T)			10,131		
DEADWEIGHT	(T)	49,995	51,372	51,338	49,993	48,622
DEADWEIGHT	(LT)	49,205	50,561	50,527	49,203	47,854

TROPICAL FRESH 63,006 × 1.000/1.025 = 61,469 (T) *

FRESH 61,627 × 1.000/1.025 = 60,124 (T) **







LUB. OIL TANK

S.G.=0.920

TANK NAME	AFT FR.No.	AFT +DIFF. (M)	FORE FR.No.	FORE +DIFF. (M)	CAPACITY (M^3)	WEIGHT 95% FULL (T)	L.C.G. (M)	V.C.G. (M)	T.C.G. (M)	MAX. IT (M^4)
L.O. SUMP. T. (C)	17		28		16.26	14.21	74.37	1.03	0.00	9
SUB TOTAL					16.26	14.21	-	-	-	9
L.O. SETT. T. (S)	18		20		13.55	11.84	77.29	15.38	8.75	1
L.O. STOR. T. (S)	16		18		13.55	11.84	78.96	15.38	8.75	1
SUB TOTAL					27.10	23.69	-	-	-	2
NO.1 CYL.O. STOR.T. (S)	14		16		13.68	11.96	80.63	15.37	8.74	1
NO.2 CYL.O. STOR.T. (S)	12		14		13.68	11.96	82.29	15.37	8.74	1
SUB TOTAL					27.36	23.91	-	-	-	2
TOTAL					70.72	61.81	-	-	-	13

FRESH WATER TANK

S.G.=1.000

TANK NAME	AFT FR.No.	AFT +DIFF. (M)	FORE FR.No.	FORE +DIFF. (M)	CAPACITY (M^3)	WEIGHT 100% FULL (T)	L.C.G. (M)	V.C.G. (M)	T.C.G. (M)	MAX. IT (M^4)
F.W.T. (P)	-2		10		155.79	155.79	88.32	15.93	-9.08	57
F.W.T. (S)	-2		10		155.79	155.79	88.32	15.93	9.08	57
TOTAL					311.58	311.58	-		-	114

OTHER TANK

S.G.=1.000

TANK NAME	AFT FR.No.	AFT +DIFF. (M)	FORE FR.No.	FORE +DIFF. (M)	CAPACITY (M^3)	WEIGHT 100% FULL (T)	L.C.G. (M)	V.C.G. (M)	T.C.G. (M)	MAX. IT (M^4)
BILGE T. (C)	10		16		20.44	20.44	81.66	0.87	0.06	24
SLUDGE T. (S)	23	0.565	28	0.470	3.57	3.57	70.81	7.59	7.00	2
SEP. B.O.T. (P)	18		24		13.43	13.43	75.23	0.98	-2.86	6
S/T COOL. WATER T. (C)	7	0.380	10		10.68	10.68	85.53	2.44	0.00	2

FUEL OIL TANK

S.G.=0.950

TANK NAME	AFT FR.No.	AFT +DIFF. (M)	FORE FR.No.	FORE +DIFF. (M)	CAPACITY (M^3)	WEIGHT 95% FULL (T)	L.C.G. (M)	V.C.G. (M)	T.C.G. (M)	MAX. IT (M^4)
NO.1 F.O.T. (P)	95		131		205.56	185.52	-7.98	0.84	-2.01	161
NO.1 F.O.T. (S)	95		131		211.94	191.28	-7.35	0.84	1.98	168
NO.2 F.O.T. (P/S)	62		98		2× 213.05	2× 192.28	22.60	0.84	±5.93	2× 168
NO.2 F.O.T. (C)	62		98	0.600	375.86	339.21	23.40	0.84	-0.01	1147
NO.3 F.O.T. (P)	30		62	0.700	260.85	235.42	50.05	0.84	-3.27	786
NO.3 F.O.T. (S)	30		62	0.700	260.85	235.42	50.05	0.84	3.26	787
NO.4 F.O.T. (P/S)	14		26		2× 233.72	2× 210.93	75.81	14.36	±11.70	2× 25
SUB TOTAL					2208.60	1993.26	-	-	-	3435
H.F.O. SERV. T. (S)	22		23	0.765	17.77	16.04	73.98	12.29	8.72	1
H.F.O. SETT. T. (S)	23	0.765	26		17.91	16.16	72.31	12.04	8.71	1
SUB TOTAL					35.68	32.20	-	-	-	2
F.O.OVERFLOW T. (S)	26		29		13.35	12.05	70.15	0.92	3.64	14
SUB TOTAL					13.35	12.05	-	-	-	14
TOTAL					2257.63	2037.51	-	-	-	3451

DIESEL OIL TANK

S.G.=0.900

TANK NAME	AFT FR.No.	AFT +DIFF. (M)	FORE FR.No.	FORE +DIFF. (M)	CAPACITY (M^3)	WEIGHT 95% FULL (T)	L.C.G. (M)	V.C.G. (M)	T.C.G. (M)	MAX. IT (M^4)
D.O.T. (P)	26		30		117.47	100.44	69.74	13.78	-12.06	18
D.O.T. (S)	26		30		100.20	85.67	69.68	13.63	12.17	18
SUB TOTAL					217.67	186.11	-	-	-	36
D.O.SERV. T. (S)	26		29	0.185	17.00	14.54	70.10	14.62	11.43	4
SUB TOTAL					17.00	14.54	-	-	-	4
TOTAL					234.67	200.64	-	-	-	40

WATER BALLAST TANK

S.G.=1.025

TANK NAME	AFT FR.No.	AFT +DIFF. (M)	FORE FR.No.	FORE +DIFF. (M)	CAPACITY (M^3)	WEIGHT 100% FULL (T)	L.C.G. (M)	V.C.G. (M)	T.C.G. (M)	MAX. IT (M^4)
F.P.T.	196		F.E.		2000.63	2050.65	-86.90	9.78	0.00	4275
NO.1 T.S.T. (P/S)	166		196		2× 308.21	2× 315.92	-66.64	17.05	±12.67	2× 525
NO.2 T.S.T. (P/S)	131		166		2× 537.02	2× 550.45	-39.73	16.76	±13.54	2× 845
NO.3 T.S.T. (P/S)	98		131		2× 506.47	2× 519.13	-8.79	16.76	±13.54	2× 797
NO.4 T.S.T. (P/S)	65		98		2× 506.47	2× 519.13	21.24	16.76	±13.54	2× 797
NO.5 T.S.T. (P/S)	30		65		2× 537.15	2× 550.58	52.18	16.76	±13.54	2× 846
NO.1 W.B.T. (P/S)	165	0.06	196		2× 713.07	2× 730.90	-67.84	1.34	±7.82	2× 6023
NO.2 W.B.T. (P)	130	0.06	166		1095.25	1122.63	-39.66	1.42	-9.58	11077
NO.2 W.B.T. (S)	130	0.06	166		1095.25	1122.63	-39.66	1.42	9.58	11096
NO.3 W.B.T. (P)	97	0.06	131		840.44	861.45	-8.77	1.55	-11.36	4511
NO.3 W.B.T. (S)	97	0.06	131		839.25	860.23	-8.78	1.55	11.36	4511
NO.4 W.B.T. (P/S)	64	0.06	98		2× 641.13	2× 657.16	21.23	1.77	±12.99	2× 1379
NO.5 W.B.T. (P)	30		65		548.86	562.58	52.26	2.36	-10.63	1852
NO.5 W.B.T. (S)	30		65		551.22	565.00	52.32	2.36	10.59	1925
AFT W.B.T. (P/S)	14		30		2× 271.38	2× 278.16	74.53	13.12	±13.80	2× 61
A.P.T.	A.E.		10		666.89	683.56	89.05	11.45	0.00	7959
SUB TOTAL					15679.59	16071.58	-	-	-	69752
NO.3 C.H. (W.B.)	96	0.82	131		14812.17	15182.47	-8.29	10.19	0.00	84017
SUB TOTAL					14812.17	15182.47	-	-	-	84017
TOTAL					30491.76	31254.05	-	-	-	153769

CARGO HOLD (BALE CAPACITY)

HOLD NAME	AFT FR.No.	AFT +DIFF. (M)	FORE FR.No.	FORE +DIFF. (M)	COMPART.	CAPACITY (M^3)	CAPACITY (FT^3)	L.C.G. (M)	V.C.G. (M)	T.C.G. (M)
NO.1 CARGO HOLD	172		188		HATCH C.	306.19	10813	-68.40	19.02	0.00
	165	0.06	196		HOLD	10736.03	379139	-68.19	10.01	0.00
					SUM	11042.22	389952	-68.20	10.23	0.00
NO.2 CARGO HOLD	137		160		HATCH C.	440.15	15544	-39.74	19.02	0.00
	129	0.82	166		HOLD	14210.73	501847	-39.26	9.89	0.00
					SUM	14650.88	517391	-39.27	10.15	0.00
NO.3 CARGO HOLD	103		126		HATCH C.	440.15	15544	-8.80	19.02	0.00
	96	0.82	131		HOLD	13335.26	470930	-8.27	9.90	0.00
					SUM	13775.41	486474	-8.29	10.17	0.00
NO.4 CARGO HOLD	70		93		HATCH C.	440.15	15544	21.24	19.02	0.00
	64	0.06	98		HOLD	13372.20	472235	21.75	9.90	0.00
					SUM	13812.35	487779	21.73	10.17	0.00
NO.5 CARGO HOLD	36		59		HATCH C.	440.15	15544	52.18	19.02	0.00
	30		65		HOLD	13341.26	471142	51.95	10.21	0.00
					SUM	13781.41	486686	51.96	10.47	0.00
TOTAL						67062.27	2368282	-	-	-

Note: Above bale capacity is calculated based on 600×600×600mm bale cargo.

CARGO HOLD (GRAIN CAPACITY) (FOR ENDS TRIMMED)

HOLD NAME	AFT FR.No.	AFT +DIFF. (M)	FORE FR.No.	FORE +DIFF. (M)	COMPART.	CAPACITY (M^3)	CAPACITY (FT^3)	L.C.G. (M)	V.C.G. (M)	T.C.G. (M)
NO.1 CARGO HOLD	172		188		HATCH C.	306.19	10813	-68.40	19.02	0.00
	165	0.06	196		HOLD	11754.24	415097	-68.19	10.01	0.00
					SUM	12060.43	425910	-68.20	10.23	0.00
NO.2 CARGO HOLD	137		160		HATCH C.	440.15	15544	-39.74	19.02	0.00
	129	0.82	166		HOLD	15266.57	539134	-39.26	9.89	0.00
					SUM	15706.72	554678	-39.27	10.15	0.00
NO.3 CARGO HOLD	103		126		HATCH C.	440.15	15544	-8.80	19.02	0.00
	96	0.82	131		HOLD	14337.07	506309	-8.27	9.90	0.00
					SUM	14777.22	521853	-8.29	10.17	0.00
NO.4 CARGO HOLD	70		93		HATCH C.	440.15	15544	21.24	19.02	0.00
	64	0.06	98		HOLD	14330.28	506069	21.75	9.90	0.00
					SUM	14770.43	521613	21.73	10.17	0.00
NO.5 CARGO HOLD	36		59		HATCH C.	440.15	15544	52.18	19.02	0.00
	30		65		HOLD	14307.51	505265	51.95	10.21	0.00
					SUM	14747.66	520809	51.96	10.47	0.00
TOTAL						72062.46	2544862	-	-	-

CARGO HOLD (GRAIN CAPACITY) (FOR ENDS UNTRIMMED)

HOLD NAME	AFT FR.No.	AFT +DIFF. (M)	FORE FR.No.	FORE +DIFF. (M)	CAPACITY (M^3)	CAPACITY (FT^3)	L.C.G. (M)	V.C.G. (M)	T.C.G. (M)
NO.1 CARGO HOLD	165	0.06	196		11558.23	408175	-68.20	10.23	0.00
NO.2 CARGO HOLD	129	0.82	166		15328.02	541304	-39.27	10.15	0.00
NO.3 CARGO HOLD	96	0.82	131		14532.52	513211	-8.29	10.17	0.00
NO.4 CARGO HOLD	64	0.06	98		14525.73	512971	21.73	10.17	0.00
NO.5 CARGO HOLD	30		65		14363.56	507244	51.96	10.47	0.00
TOTAL					70308.06	2482906	-	-	-

CAUTION

THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION OF IHI MARINE UNITED INC.(IHI MU). THE DOCUMENT ALWAYS REQUIRES PRIOR WRITTEN CONSENT OF IHI MU FOR (1) ITS REPRODUCTION BY ANY MEANS, (2) ITS DISCLOSURE TO A THIRD PARTY, OR (3) ITS USE FOR ANY PURPOSE OTHER THAN THOSE FOR WHICH IT IS SUPPLIED.

PRINCIPAL PARTICULARS

LENGTH (O.A.)	190.00 M
LENGTH (B.P.)	185.00 M
BREADTH (MLD)	32.26 M
DEPTH (MLD)	18.10 M
DRAFT (EXT.) ASSIGNED SUMMER	12.735 M
DEADWEIGHT AT ASSIGNED DRAFT	55,747 T
GROSS TONNAGE	31,540 T
MAIN ENGINE DU-WÄRTSILÄ	6RT-flex50 x 1 SET
OUTPUT	MCR 8,890 kW x 116.0 rpm
	NOR 7,110 kW x 107.7 rpm

H - 1 - 9

IMO Number : 9593294

FINISHED PLAN

NO.	DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED
0	OCT.21, 2011	PREPARED FOR FINISHED PLAN OF S.NO.3325		T.Ikebe		

SCALE 1/200

1ST ANGLE PROJECTION / 3RD ANGLE PROJECTION

ANNE

S.NO.3325

CAPACITY PLAN & D.W.SCALE

SHIP & OFFSHORE DESIGN DEPARTMENT (F GR.)

JOB NO. 201-3325 CLASS NK

DRAWING NO. K2001501 REV. 1/1

IHIMU