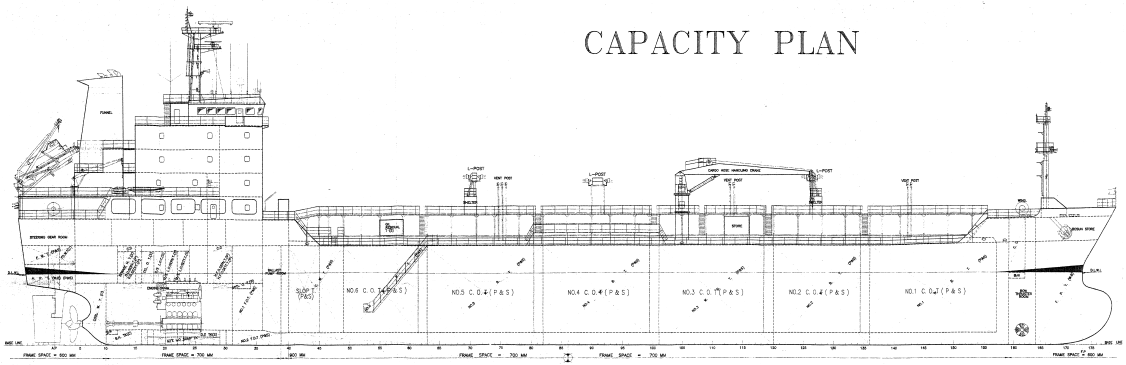
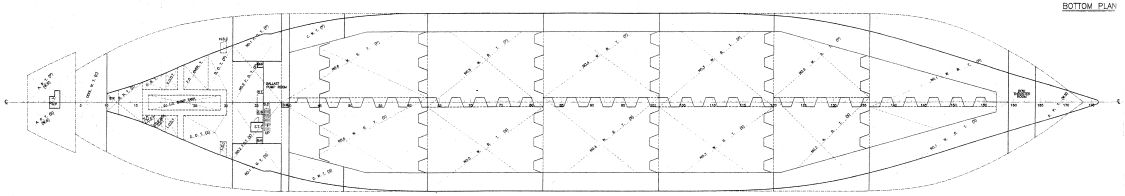
CAPACITY PLAN

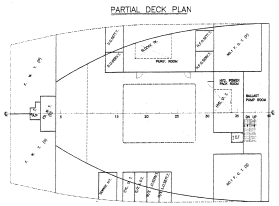
BIBLIOGRAPHY			
DATE	REV.	DESCRIPTION	REMARK
2006. 07.	⚠	1. Designed by Basic Design Team.	
2007. 06.		FINAL DRAWING FOR SH-1064	



BOTTOM PLAN



PARTIAL DECK PLAN



CARGO OIL TANKS					
COMPARTMENT	LOCATION (FRAME)	CAPACITY (M^3) 100%FULL	98%FULL	L. C. G. (M)	V. C. G. (M)
NO.1 C. O. T. (P)	136~157	946.219	927.295	41.104	7.346
NO.1 C. O. T. (S)	136~157	945.753	926.838	41.104	7.346
NO.2 C. O. T. (P)	120~136	977.820	958.264	28.637	6.881
NO.2 C. O. T. (S)	120~136	981.320	961.694	28.637	6.881
NO.3 C. O. T. (P)	101~120	1229.709	1205.115	16.510	6.721
NO.3 C. O. T. (S)	101~120	1229.709	1205.115	16.510	6.721
NO.4 C. O. T. (P)	82~101	1230.269	1205.664	3.210	6.721
NO.4 C. O. T. (S)	82~101	1230.269	1205.664	3.210	6.721
NO.5 C. O. T. (P)	63~ 82	1229.616	1205.024	-10.099	6.721
NO.5 C. O. T. (S)	63~ 82	1229.616	1205.024	-10.099	6.721
NO.6 C. O. T. (P)	45~ 63	1058.195	1037.031	-22.476	6.744
NO.6 C. O. T. (S)	45~ 63	1058.195	1037.031	-22.476	6.744
SUB. TOTAL		13346.690	13079.759		
CARGO OIL TANK TOTAL		13346.690	13079.759		
SLOP T. (P)	40~ 45	355.073	347.972	-30.264	6.925
SLOP T. (S)	40~ 45	354.609	347.517	-30.264	6.925
SUB. TOTAL		709.682	695.489		
GRAND TOTAL		14056.372	13775.248		

WATER BALLAST TANKS S.G. = 1.025					
COMPARTMENT	LOCATION (FRAME)	CAPACITY (M^3) 100%FULL	WEIGHT (M)	L. C. G. (M)	V. C. G. (M)
F. P. T. (C)	164~F.E	326.196	334.351	56.652	6.457
NO.1 W. B. T. (P)	136~159	572.063	586.365	43.281	5.179
NO.1 W. B. T. (S)	136~159	550.171	563.925	43.322	5.357
NO.2 W. B. T. (P)	120~136	316.449	324.360	29.451	3.999
NO.2 W. B. T. (S)	120~136	333.129	341.457	29.443	3.834
NO.3 W. B. T. (P)	101~120	382.569	392.133	17.032	3.670
NO.3 W. B. T. (S)	101~120	362.761	371.830	17.031	3.832
NO.4 W. B. T. (P)	82~101	364.119	373.222	3.750	3.821
NO.4 W. B. T. (S)	82~101	383.927	393.525	3.750	3.660
NO.5 W. B. T. (P)	63~82	384.448	394.059	-9.548	3.673
NO.5 W. B. T. (S)	63~82	364.640	373.756	-9.548	3.834
NO.6 W. B. T. (P)	39~63	341.063	349.590	-22.989	3.191
NO.6 W. B. T. (S)	39~63	365.041	374.167	-23.072	3.026
A. P. T. (P)	A.E~4	60.136	61.639	-59.499	8.494
A. P. T. (S)	A.E~4	61.208	62.738	-59.494	8.489
T O T A L		5167.920	5297.117		

OTHERS TANKS					
COMPARTMENT	LOCATION (FRAME)	CAPACITY (M^3) 100%FULL	98%FULL	L. C. G. (M)	V. C. G. (M)
B. H. T. (C)	10 ~ 16	14.879	14.284	-50.910	1.009
D. B. T. (P)	16 ~ 20	3.372	3.237	-47.682	1.202
F. O. D. T. (P)	20 ~ 22	2.989	2.869	-45.762	1.131
F. O. OVER. T. (P)	23 ~ 27	10.303	9.891	-42.892	1.050
S/T L. O. T. (S)	16 ~ 18	1.293	1.241	-48.534	1.238
STUFF. BOX L.O.D.T.(S)	18 ~ 20	2.079	1.996	-47.152	1.180
L. O. D. T. (S)	20 ~ 22	2.989	2.869	-45.762	1.131
FD W. T. (C)	1 ~ 4	15.771	15.140	-58.000	10.598
C. W. T. (C)	4 ~ 10	40.872	39.237	-54.781	5.649
CYL. O. T. (S)	16 ~ 18	12.395	11.899	-48.587	9.310
SEWAGE H. T. (S)	12 ~ 15	14.767	14.176	-51.007	9.462
H. O. T. (P)	31 ~ 34	3.908	3.752	-37.750	6.850
SLUDGE T. (P)	18 ~ 24	6.691	6.423	-45.576	6.827
FOAM T. (S)	33 ~ 36	6.421	6.164	-36.350	12.850

FUEL OIL TANKS S.G. = 0.980						
COMPARTMENT	LOCATION (FRAME)	CAPACITY (M^3) 100%FULL	98%FULL	WEIGHT (M)	L. C. G. (M)	V. C. G. (M)
NO.1 F. O. T. (P)	31~ 39	266.339	261.012	255.792	-35.932	7.016
NO.1 F. O. T. (S)	31~ 39	266.339	261.012	255.792	-35.932	7.016
NO.2 F. O. T. (P)	31~ 39	54.897	53.799	52.723	-35.939	0.905
NO.2 F. O. T. (S)	31~ 39	53.414	52.346	51.299	-35.966	0.908
H.F.O. SERV. T.(P)	28~ 31	18.098	17.736	17.381	-39.850	9.050
H.F.O. SETT. T.(P)	28~ 31	18.060	17.699	17.345	-39.850	9.050
SUB. TOTAL		677.147	663.604	650.332		

LUB. OIL TANKS S.G. = 0.900						
COMPARTMENT	LOCATION (FRAME)	CAPACITY (M^3) 100%FULL	98%FULL	WEIGHT (M)	L. C. G. (M)	V. C. G. (M)
L. O. SUMP. T. (C)	17~ 29	13.323	13.057	11.751	-44.371	0.479
M/E L.O.SETT.T. (S)	22~ 24	15.547	15.236	13.712	-44.394	9.160
M/E L.O.SERV.T. (S)	20~ 22	14.686	14.392	12.953	-45.792	9.199
G/E L. O. T. (S)	18~ 20	13.636	13.365	12.029	-47.190	9.248
T O T A L		57.194	56.050	50.445		

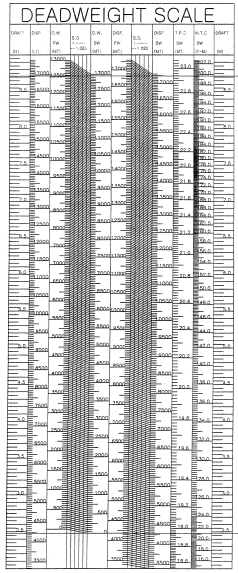
CLEANING WATER TANKS S.G. = 1.000						
COMPARTMENT	LOCATION (FRAME)	CAPACITY (M^3) 100%FULL	WEIGHT (M)	L. C. G. (M)	V. C. G. (M)	
CLEAN. W. T. (P)	40 ~ 49	103.365	103.365	-29.261	6.225	
CLEAN. W. T. (S)	40 ~ 49	103.365	103.365	-29.261	6.225	
T O T A L		206.730	206.730			

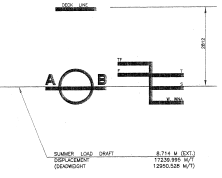
DIESEL OIL TANKS S.G. = 0.860						
COMPARTMENT	LOCATION (FRAME)	CAPACITY (M^3) 100%FULL	98%FULL	WEIGHT (M)	L. C. G. (M)	V. C. G. (M)
D. O. T. (P)	27~ 31	16.891	16.553	14.236	-40.024	0.882
D. O. T. (S)	23~ 31	26.452	25.923	22.294	-41.145	1.000
D.O. SERV. T. (P)	13~ 16	17.791	17.435	14.994	-50.350	9.050
D.O. SETT. T. (P)	13~ 16	13.654	13.381	11.508	-50.306	9.467
T O T A L		74.788	73.292	63.031		

FRESH WATER TANKS S.G. = 1.000					
COMPARTMENT	LOCATION (FRAME)	CAPACITY (M^3) 100%FULL	WEIGHT (M)	L. C. G. (M)	V. C. G. (M)
F. W. T. (P)	A.E ~ 4	83.240	83.240	-60.075	10.603
F. W. T. (S)	A.E ~ 4	84.131	84.131	-60.065	10.602
T O T A L		167.371	167.371		

REMARK
1. + : FORWARD FROM MIDSHIP
2. - : AFT. FROM MIDSHIP

DEADWEIGHT SCALE





PRINCIPAL PARTICULARS

LENGTH	O. A.	abt. 127.20 M
LENGTH	B. P.	119.00 M
BREADTH	(MLD)	20.40 M
DEPTH	(MLD)	11.50 M
DRAFT	(DESIGNED)	8.35 M
DRAFT	(SCANTLING)	8.70 M
DEADWEIGHT	(SCANTLING)	abt. 12,850 TON
GROSS TONNAGE		abt. 8452 TON
MAIN ENGINE		STX B&W 6S 35MC
		4440 KW x 173 RPM x 1 Set
SPEED	(SERVICE)	abt. 13.59 KL
	(AT 90% MCR WITH 15% S.M)	
COMPLEMENTS		24 P.
CLASS		ABS
	+A1 (E) OIL/CHEMICAL CARRIER, +MNS,+ACCU,VEC	
	IMO TYPE II & III, ESP	

DRAFT IN SEA WATER 2.473M
LIGHTSHIP WEIGHT 4289.457 M/T

FINAL DWG
NEW RANGER

IMO NO. 9328326
PROJECT NO. SH-1064

OWNER	MODON MARITIME MANAGEMENT S.A				
APP. BY	SUBJECT	DWT 12,800 TON CLASS OIL/CHEMICAL TANKER			
APP. BY J.H.CHUNG	CAPACITY PLAN & DEAD WEIGHT SCALE				
APP. BY					
CHK. BY					
DWG. BY K.J. KIM	SCALE 1/200	DATE 2006. 07.	CLASS ABS	DWG. NO. B-104-001	REV. ⚠
BUILDER	SAMHO SHIPBUILDING CO., LTD. 668-16, SONHAM-DONG, GEOJE-SHI, GYEONGSANGNAM-DO, KOREA TEL (055) 681-9114, FAX. (055) 681-3847				
DESIGNER	SD SHIP DESIGN CO., LTD. TEL. 82-51-462-4772, FAX. 82-51-462-4792, E-mail address : samho@korea.com				