

TABLE OF OFFSETS FOR SIDE DOCKING BLOCKS

NO 1 DOCKING POSITION - CENTER OF NO 1 BLOCK POSITIONED 40030 MM (131'-4") FROM SRP		POINT "B"		POINT "A"		POINT "C"		LONGITUDINAL BEVEL IN 18" (406mm)		
SIDE OF VESSEL	FR NO	SRP	HB	HGT	HB	HGT	HB		HGT	
P/S	16	9	131/4/0	3/10/8	3/3/7	4/10/7	4/2/14	5/10/8	5/4/2	+0/1/5
P/S	23	8	34080	1381	759	1686	939	1991	1153	+1/3
P/S	29	7	28980	2080	868	2385	1020	2670	1216	+1/0
P/S	32	6	95/0/15	6/9/2	2/10/3	7/9/2	3/4/3	8/9/2	3/11/14	+0/0/6
P/S	36	5	25680	2080	800	2385	894	2670	1028	+2
P/S	39	4	21280	1275	722	1580	762	1885	804	-7
P/S	43	3	69/9/13	4/2/3	2/4/1	5/2/3	2/6/0	2/7/10	2/7/10	-0/0/4
P/S	46.5	2	17980	1301	822	1606	852	1911	882	-8
P/S	55	1	58/11/14	4/3/4	2/8/6	5/3/4	2/9/9	6/3/4	2/10/12	-0/0/5

LIST OF OPENINGS & APPENDAGES BELOW DWL

NO.	DESCRIPTION	SIZE	FORWARD OF SRP		C.L. OF ITEM ON CENTER-LINE
			MM	FT/IN/16TH	
1	DEPTH SOUNDER TRANSDUCER	222MM (8.75") DIA.	35181	115/5/1	ON CENTER-LINE
2	SPEED LOG ECHO SOUNDER	192MM (7.56") DIA.	38556	126/5/15	ON CENTER-LINE
3	MAIN SEA INLET	528MM (20.79") DIA.	28281	92/7/7	1816MM (71.50") P & S
4	AUXILIARY SEA INLET F.M.R.	1100MM (43.31") X 280MM (11.02")	28431	93/3/5	350MM (13.44") P & S
5	MAIN EXHAUST OUTLET F.M.R.	509MM (20.00") ELLIPSE.	27331	89/8/0	3365MM (93.11") P & S
6	MAIN SEA INLET	528MM (20.79") DIA.	20581	67/6/4	1182MM (46.54") P & S
7	MAIN EXHAUST OUTLET A.M.R.	508MM (20.00") ELLIPSE.	17581	57/8/3	3610MM (142.13") P & S
8	OUTBOARD SHAFT STERN TUBE	2800MM (102.36") ELLIPSE.	13531	44/4/11	2152MM (84.72") P & S
9	AUXILIARY SEA INLET A.M.R.	1100MM (43.31") X 400MM (15.75")	16331	53/6/15	700MM (27.56") P & S
10	INBOARD SHAFT STERN TUBE	1500MM (59.05") ELLIPSE.	10831	35/6/7	933MM (36.73") P & S
11	OUTBOARD SHAFT STRUT FWD	600MM (23.62") X 540MM (21.26")	12081	39/7/10	2185MM (86.02") P & S
12	OUTBOARD SHAFT STRUT (INTER)	545MM (21.46") X 484MM (19.06")	8831	28/11/11	2299MM (89.93") P & S
13	INBOARD SHAFT STRUT (INTER)	545MM (21.46") X 484MM (19.06")	8831	28/11/11	882MM (34.72") P & S
14	OUTBOARD SHAFT STRUT (MAIN)	1040MM (40.94") X 484MM (19.06")	5760	18/10/12	2329MM (91.69") P & S
15	INBOARD SHAFT STRUT (MAIN)	1040MM (40.94") X 484MM (19.06")	5760	18/10/12	803MM (31.65") P & S
16	CATHODIC PROTECTION UNIT FWD	3200MM (125.98") DIA.	43855	143/10/9	548MM (21.50") P & S
17	CATHODIC PROTECTION UNIT AFT	3200MM (125.98") DIA.	15505	50/10/7	2800MM (110.24") P & S
18	REFERENCE ELECTRODE FWD	203MM (8.00") DIA.	28431	93/3/5	1200MM (47.24") P & S
19	REFERENCE ELECTRODE AFT	203MM (8.00") DIA.	6330	20/8/3	1500MM (59.45") P & S
20	AUX MACHY SPACE SEA INLET	213MM (8.39") X 350MM (13.78")	34718	113/10/14	501MM (19.69") P & S
21	POWERSCAN SONAR	222MM (8.75") DIA.	32680	107/2/10	ON CENTER-LINE

BEARING ON BLOCKS	
SUPPORT	BEARING ON SHELL PL
	6'-0" SPACING
SIDE BLOCKS	6,912 SQ IN
NET BEARING AREA (2x9)(16x24)	48.0 SQ FT
KEEL BLOCKS	22,680 SQ IN
NET BEARING AREA (13)(142x38) (3)(142x24)	157.5 SQ FT
TOTAL BEARING	29,592 SQ IN 205.5 SQ FT
BEARING PER SQ IN BLOCKING	28.99 LB
BEARING PER SQ FT BLOCKING	1.86 L. TONS
FULL LOAD DISPLACEMENT = 363 L TONS = 857,920 LBS	

PRINCIPAL DIMENSIONS:

LENGTH OVERALL	54.360MM	178'-4 1/8"
BEAM BETWEEN PERPENDICULARS	48.000MM	157'-5 3/4"
DEPTH MOULDED	7.920MM	25'-0"
DEPTH MOULDED AT 100MM	4.100MM	13'-5 3/8"
DRAFT AMIDSHIPS	2.000MM	6'-8 3/4"
DRAFT OVER PROPELLERS	2.258MM	7'-4 3/4"
HALF WIDTH OF KEEL	75MM	3"

- NOTES:
- THE BLOCKING SHOWN ON THIS PLAN IS THAT REQUIRED FOR DOCKING UNDER ORDINARY UNDAUNAGED CONDITIONS.
 - IN DETERMINING THE HEIGHT OF KEEL BLOCKS, CARE IS TO BE TAKEN THAT PROPELLER AND OTHER APPENDAGES CLEAR THE BOTTOM OF DOCK. ALL REF. DIMENSIONS ARE FROM BASELINE.
 - THE PC 1 CLASS HAS A DESIGN DRAG. CALCULATIONS INDICATE THAT THESE SHIPS SHOULD BE DOCKED WITH A SLOPED KEEL LINE TO AVOID EXCESSIVE KNUCKLE STRESSES. ALL DOCKING BLOCK DIMENSIONS PROVIDED IN THIS DRAWING ASSUME A SLOPED KEEL LINE.
 - KEEL BLOCKS 1 & 2 (AFT OF FRAME 45) SHALL BE SET IN PLACE AFTER THE SHIP HAS LANDED ON THE REMAINING KEEL BLOCKS.
 - KEEL BLOCKS SHALL BE ARRANGED IN PIERS CONSISTING OF THREE 14" X 14" HARD WOOD TIMBERS MOUNTED WITH 2" SOFTWOOD CAP. (356mm x 356mm) (1829mm) (51mm) LONGITUDINAL SPACING 6'-0" CENTER TO CENTER, AFT OF FR 25. BLOCK SIZE = 42" X 24" (AT FR 15-20 & FR 27-45). (1067mm x 914mm)
 - SIDE BLOCKS SHOWN IN ALL THREE DOCKING POSITIONS. LOCATION DIMENSION GIVEN FOR POSITION 1 IS 610MM (24") FWD OF 1. POSITION 3 IS 610MM (24") AFT OF 1. BLOCK SIZE 16" (FORE & AFT) X 24" (ATHWARTSHIPS) (406mm) (610mm)
 - THE STERN REFERENCE POINT (SRP) IS THE AFT EDGE OF THE MAIN DECK.

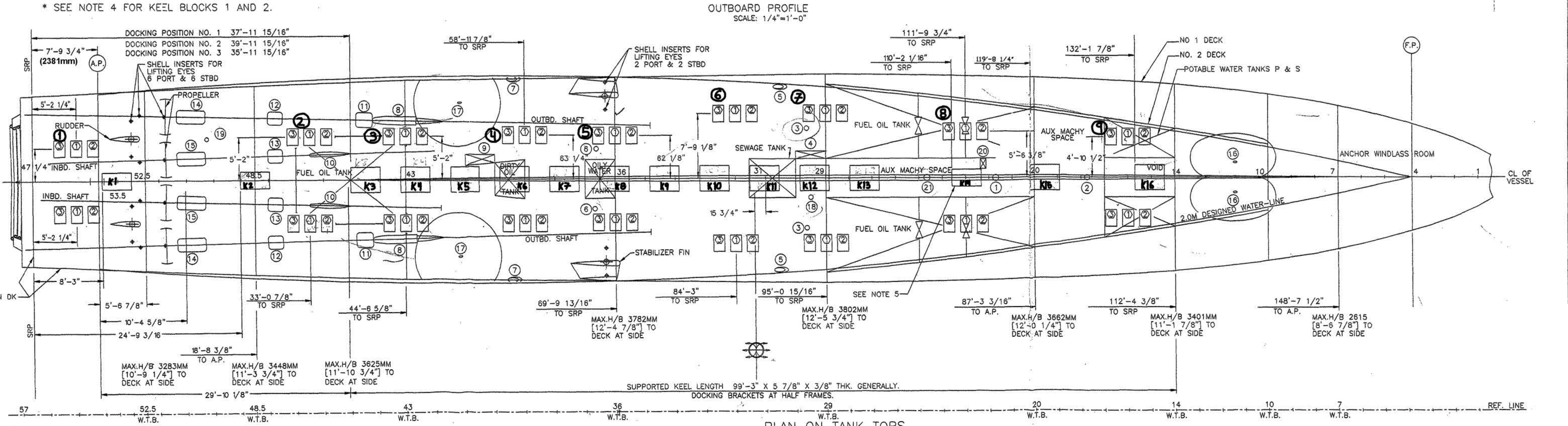
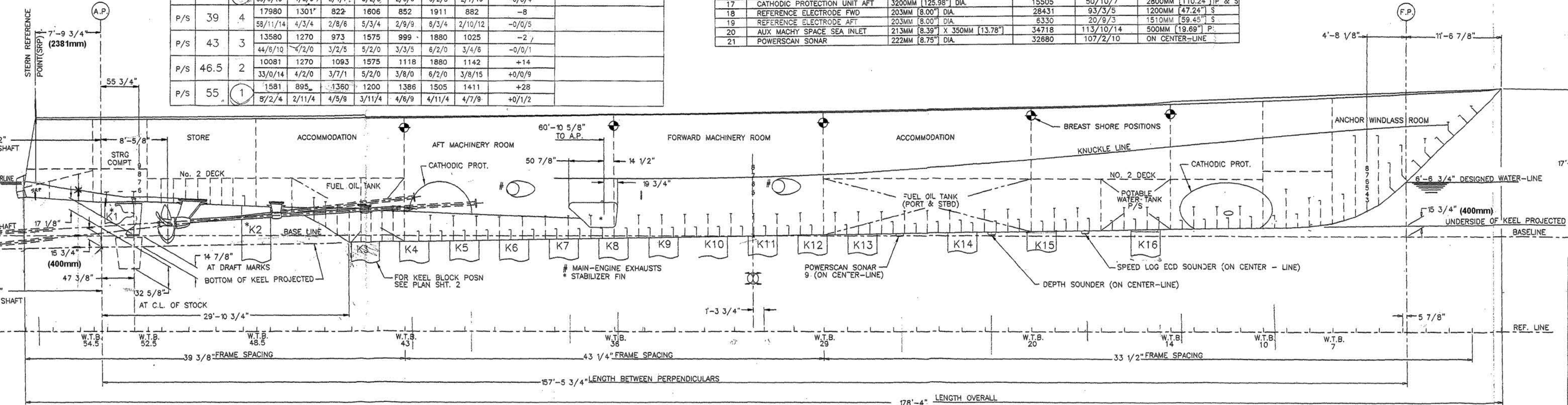
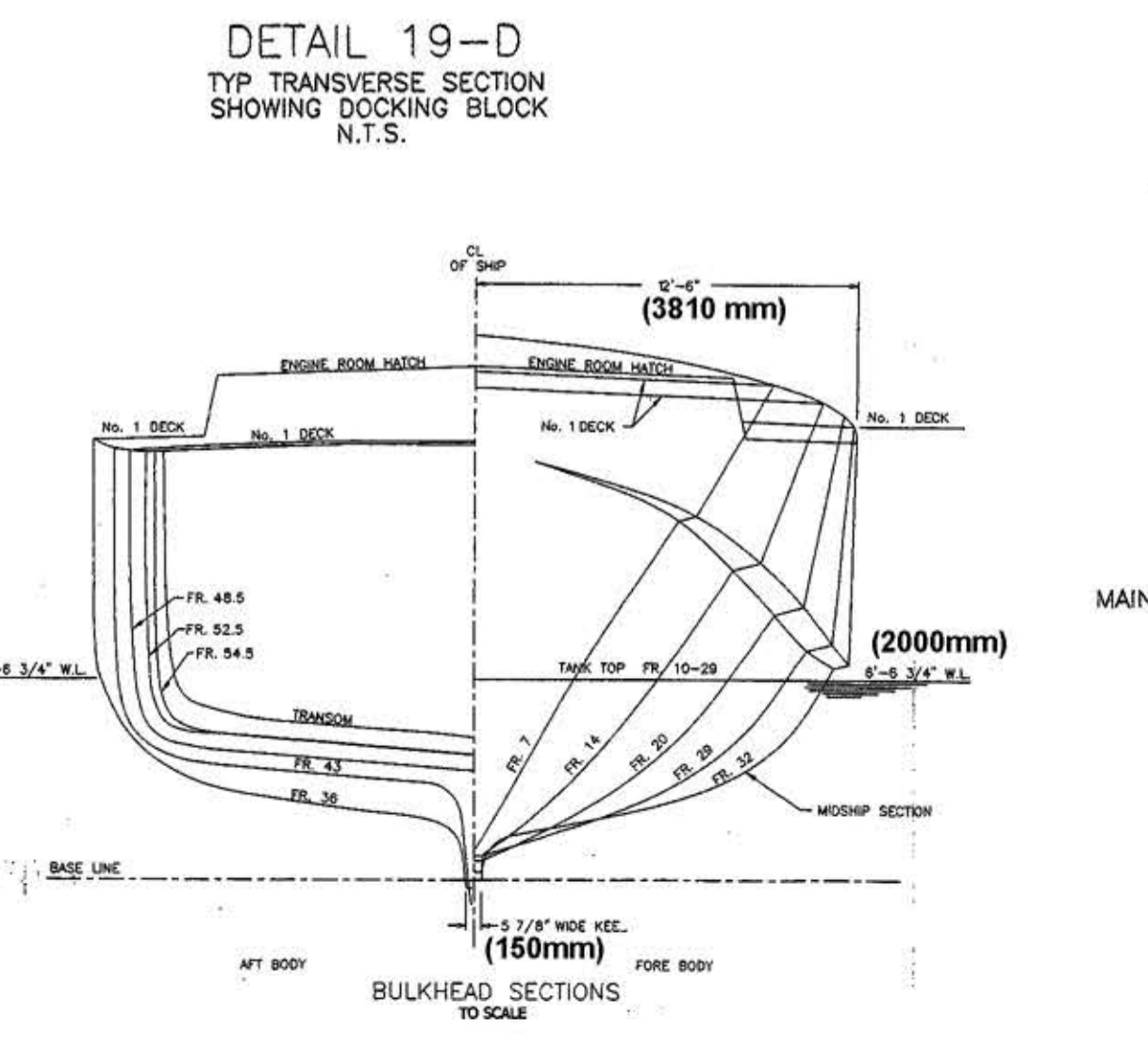
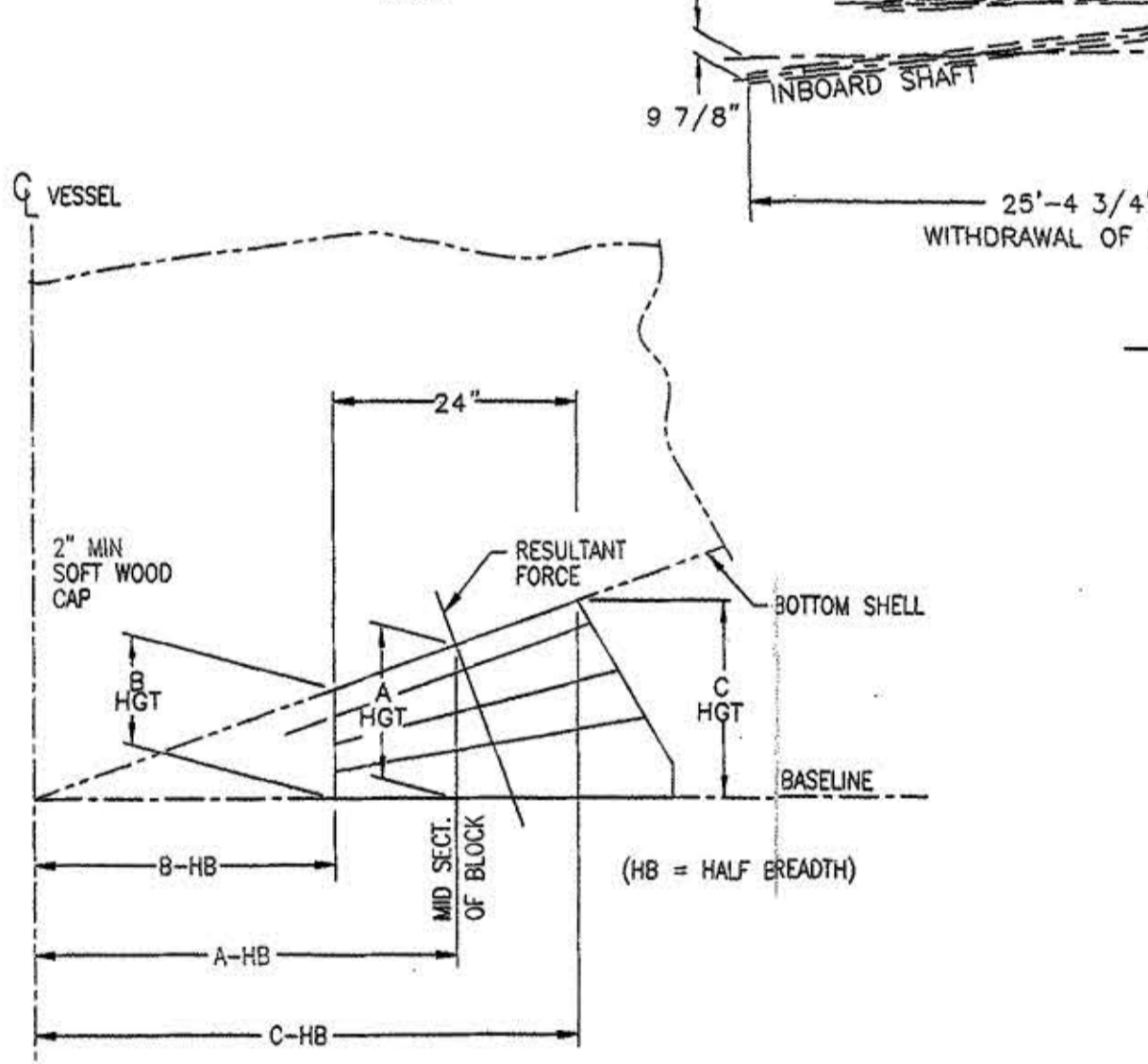
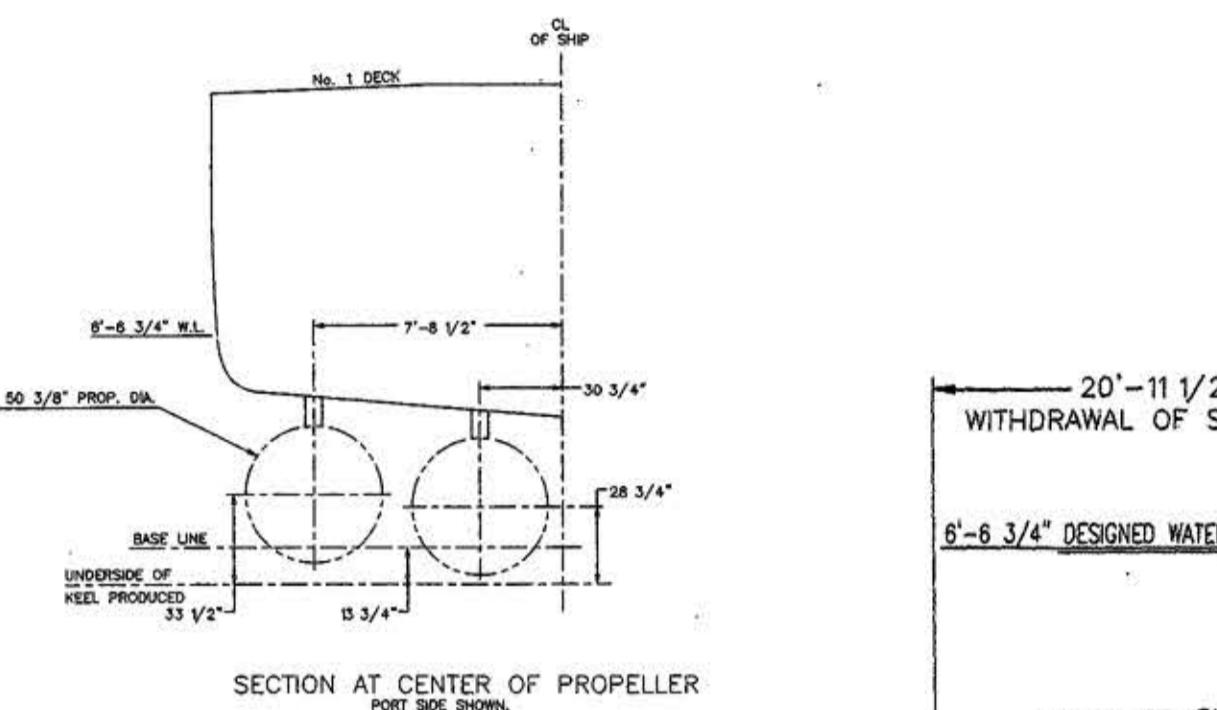
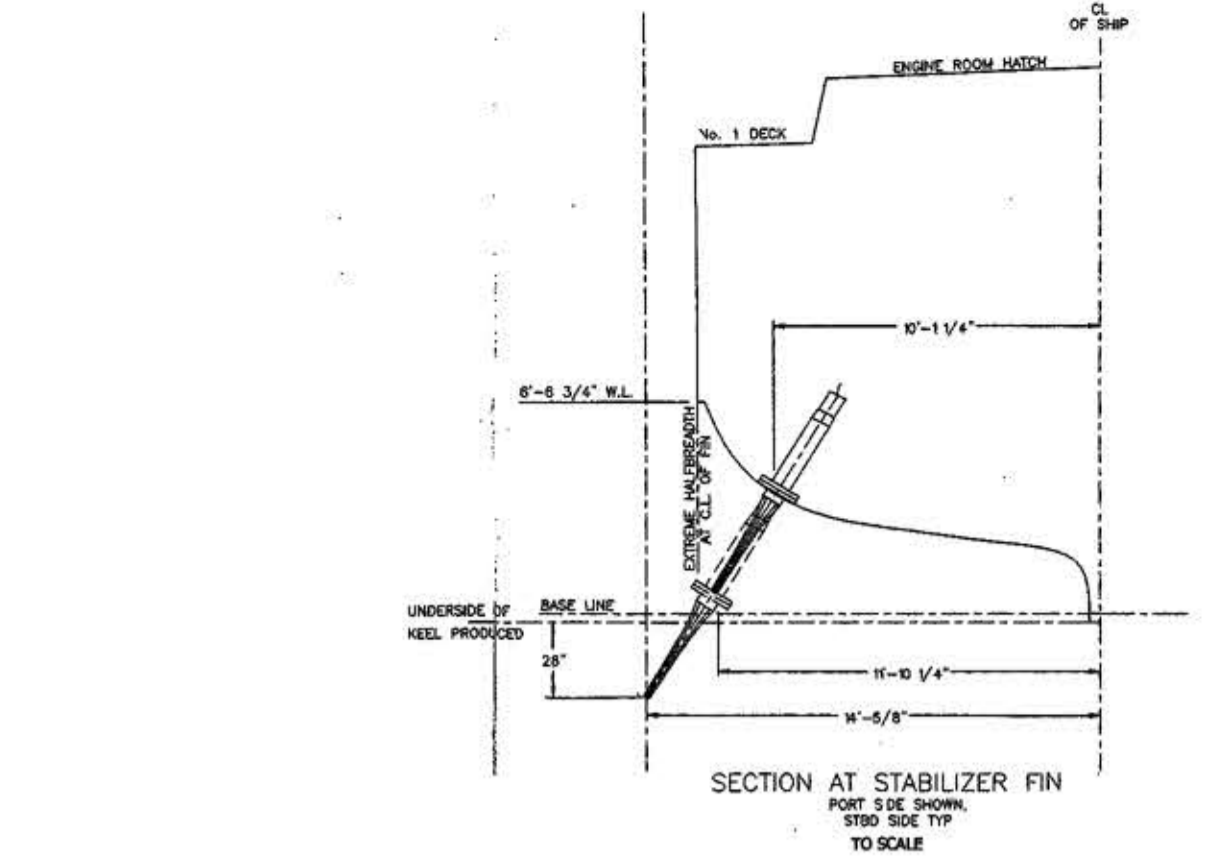


TABLE OF OFFSETS FOR KEEL BLOCKS

KEEL BLOCK NO.	FRAME NEAREST TO AFT END OF BLOCK	DISTANCE FROM AFT END OF BLOCK TO SRP	HT ABOVE SHIP'S BASELINE @ AFT END OF BLOCK	LONGITUDINAL BEVEL IN 42" (1067mm)
				DEGREES
K18	18	40281	232	0.96
K15	20	132/1/14	0/9/2	0/0/11
		36481	159	0.96
K14	24	119/9/4	0/6/10	0/0/11
		33581	120	0.96
K13	28	110/2/1	0/4/12	0/0/11
		29889	58	0.96
K12	30	97/11/15	0/2/5	0/0/11
		91/11/15	0/1/2	0/0/11
K11	32	28211	-3	0.96
		85/11/15	-0/0/2	0/0/11
K10	33	24383	-33	0.96
		79/11/15	-0/1/5	0/0/11
K9	35	22554	-64	0.96
		73/11/15	-0/2/8	0/0/11
K8	37	20725	-94	0.96
		67/11/15	-0/3/11	0/0/11
K7	38	18898	-125	0.96
		61/11/15	-0/4/15	0/0/11
K6	40	17067	-155	0.96
		55/11/15	-0/6/2	0/0/11
K5	41	15239	-186	0.96
		48/11/15	-0/7/5	0/0/11
K4	43	13410	-216	0.96
		43/11/15	-0/8/8	0/0/11
K3	45	11581	-247	0.96
		37/11/15	-0/9/12	0/0/11
K2	49	7548	+1105	-2.41
		24/9/3	+3/7/8	-0/1/12
K1	54	2514	+1232	+0.86
		8/3/0	+4/0/8	+0/0/10



DEPARTMENT OF THE NAVY
NAVAL SEA SYSTEMS COMMAND
WASHINGTON, D.C. 20382-5101

PC 1 CLASS

DOCKING PLAN WITH HULL EXTENSION

DATE FROM NO	DATE NO	REV
11/53711	085-7292420	A
SCALE	SHEET	2