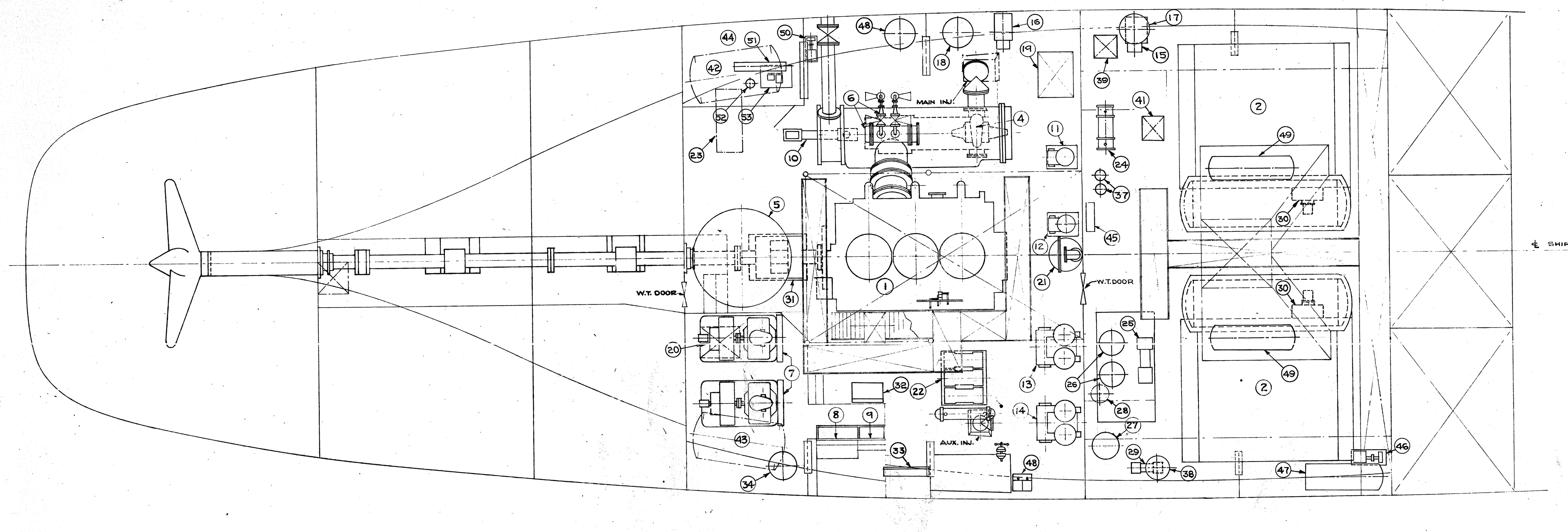
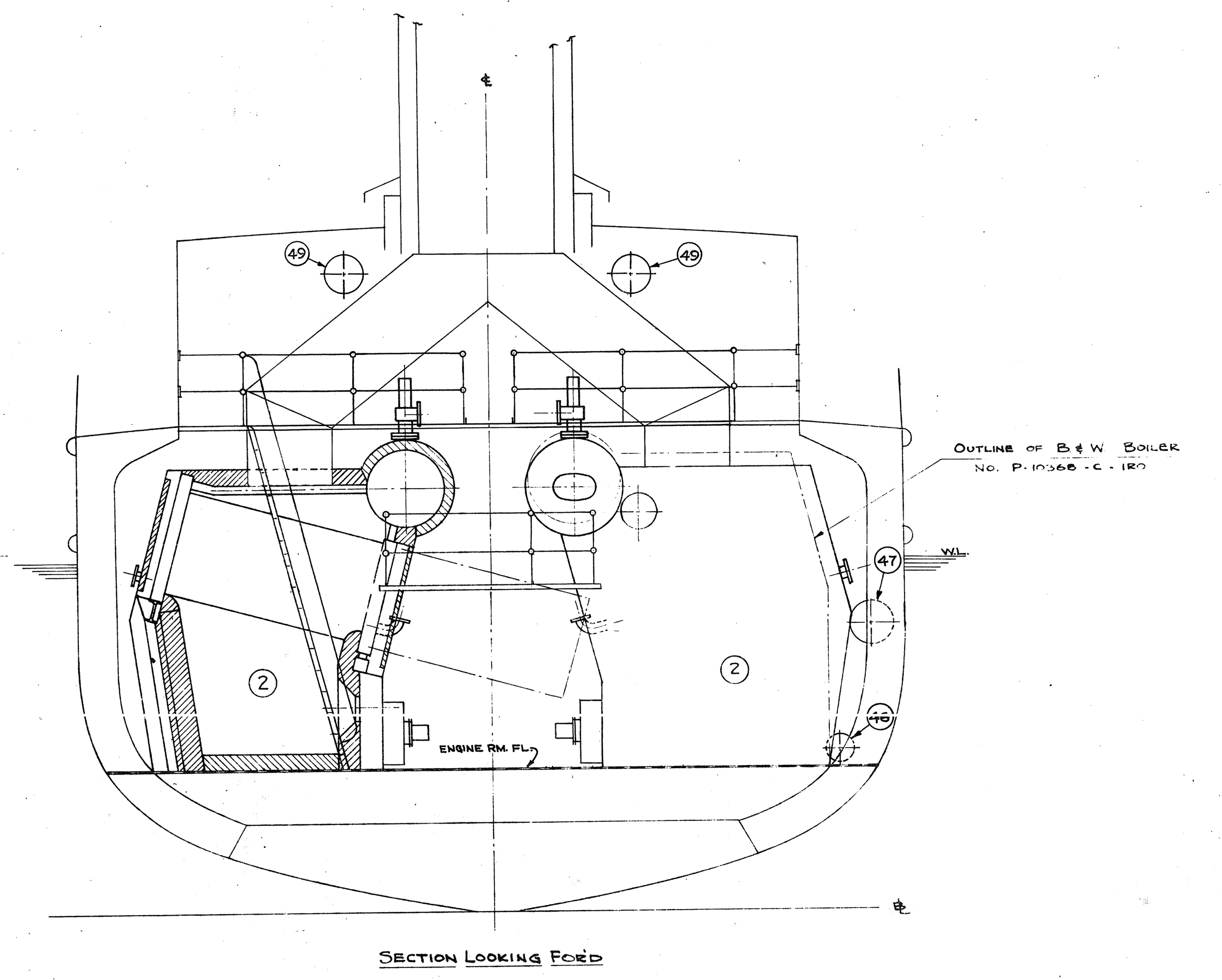
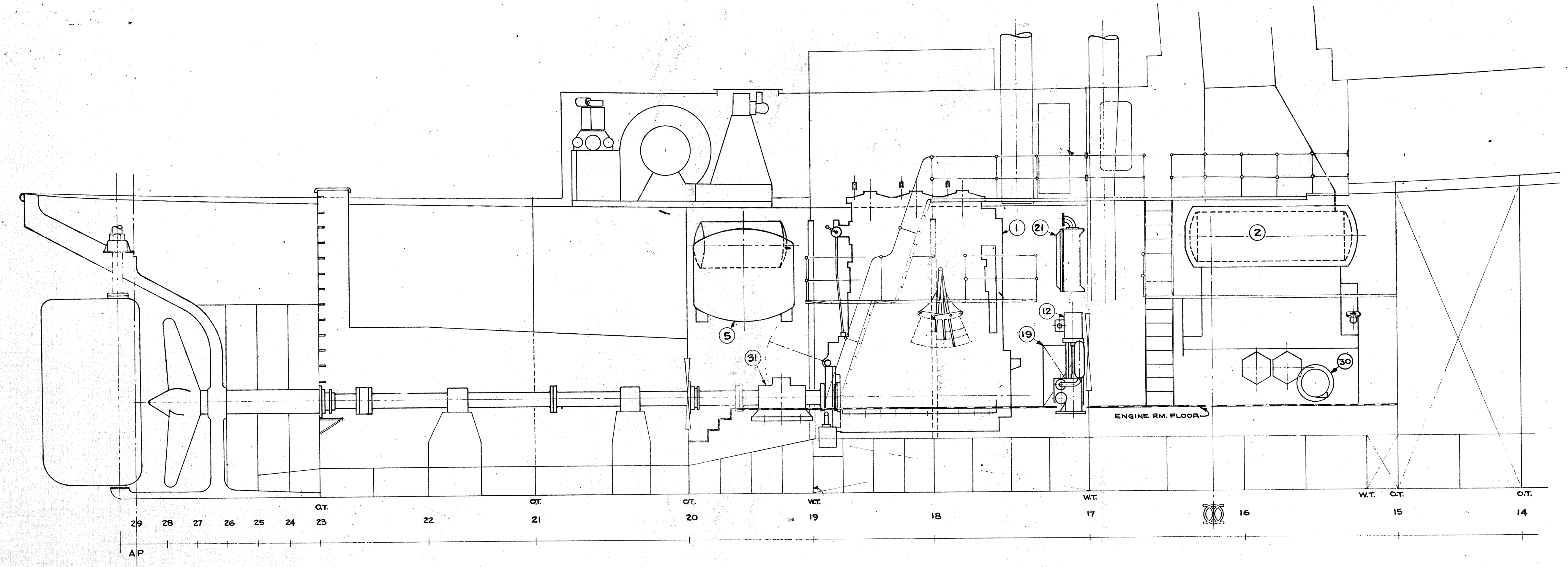
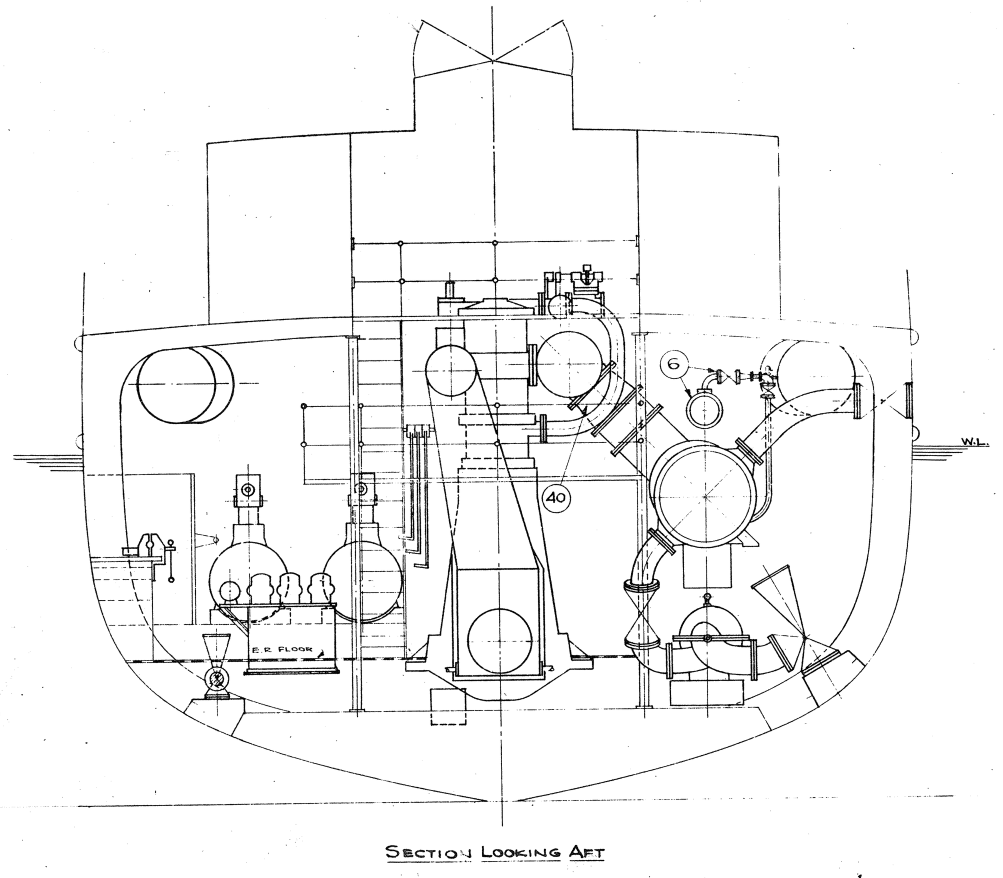




Section Looking Fo'd





Section Looking Aft

MACHINERY LIST

MARK	NO. REQ.	NAME	CHARACTERISTICS
1	1	SKINNER UNIFLOW MAIN ENGINE	3 CYL. 24½" x 24" - 1200 I.H.P. - 120 R.P.M.
2	2	BOILERS - SECT. HEADER TYPE	180 P.S.I. W.P. - 100° S.H.
3	1	MAIN CONDENSER - 2 PASS	2500□' COOLING SURFACE APPROX.
4	1	MAIN CIRCULATING PUMP	CENTRIFUGAL - 5000 G.P.M. TURB. DRIVE
5	1	SEABOARD CONDENSATE FILTER	37,500 # WATER PER HOUR - MAX.
6	1	DUPLEX AIR EJECTOR	AFTER CONDENSER
7	2	MAIN GENERATOR - RECIP. ENGINE	15 K.W. - 120 V D.C. EACH
8	1	SWITCHBOARD	
9	1	DE GAUSSING CONTROL PANEL	
10	1	CONDENSATE PUMP	HORIZ. SIMP. 7½" x 7" x 10" - 126 G.P.M.
11	1	AUX. FEED & EMERG. COND. PUMP	VERT. SIMP. 10" x 7" x 12" - 78 G.P.M.
12	1	MAIN FEED PUMP	" " " "
13	1	GENERAL SERVICE PUMP	VERT. DUPLEX - 12" x 8½" x 10" - 300 G.P.M.
14	1	FIRE, BILGE & BALLAST PUMP	VERT. DUPLEX - 12" x 8½" x 12" - 450 G.P.M.
15	1	S.W. SERVICE PUMP - ELECTRIC	HORIZ. DUPLEX 2½" x 2" - 30 G.P.M.
16	1	F.W. SERVICE PUMP - ELECTRIC	" " " "
17	1	S.W. PRESSURE TANK	120 GALLON
18	1	F.W. PRESSURE TANK	120 GALLON
19	1	FEED WATER TANK	200 GALLON
20	1	DRAIN TANK	75 GALLON
21	1	FEED WATER HEATER	
22	1	L.O. SET - 3 PUMPS & COOLER	HORIZ. DUPLEX - 4½" x 2¾" x 4"
23	1	STEERING ENGINE	SPERRY NO. 2
24	1	F.O. TRANSFER PUMP	HORIZ. DUPLEX 5" x 4" x 4" - 30 G.P.M.
25	2	F.O. SERVICE PUMP	HORIZ. SIMPLEX - 3½" x 2¼" x 4" - 8 G.P.M.
26	2	F.O. HEATER	
27	1	EVAPORATOR	10 TON CAP. PER 24 HR - HIGH PRESS.
28	1	DISTILLER	" " " " " "
29	1	DISTILLER F.W. PUMP	HORIZ. DUPLEX - 3½" x 2¼" x 3" - 15 G.P.M.
30	2	TURBO FORCED DRAFT BLOWERS	
31	1	KINGSBURY THRUST BEARING	
32	1	LOG DESK	
33	1	GAUGE BOARD	
34	1	CYLINDER OIL SERVICE TANK	
35	1	MOTOR OIL SERVICE TANK	
36	2	WORK BENCH & VISE	
37	1	CO_2 FIRE EXTINGUISHER	
38	1	DISTILLATE TEST TANK	
39	1	DRAIN INSPECTION TANK	
40	1	EXHAUST EXPANSION JOINT	
41	1	SAND BOX	10 CUBIC FEET
42	1	DIESEL OIL TANK	250 GAL. CAPACITY
43	1	LUBE OIL STORAGE TANK	250 " "
44	1	ENGINEERS STORES	
45	1	BOILER FEED INJECTOR	
46	1	POTABLE WATER PUMP	
47	1	POTABLE WATER PRESSURE TANK	
48	1	KEROSENE TANK	
49	2	HOT WATER TANK	P/S
50	1	ICE MACH. CIR. PUMP	
51	1	FREON CONDENSER	
52	1	FREON RECEIVER	
53	1	FREON COMPRESSOR	

PRINTS ISSUED

TO	DATE									
FILE	3	1 VD	1							
A. B. S.										
U.S.C.G. INSP.										
SUSHIPS										
D. M. O.										
ARMY			1 VD	2						
SHIPYARD										
SUB-CONTRACTOR							1			
MAR[illegible]			1			2		1	4	[illegible]
ST[illegible] BAT				1	1					

REFERENCE DRAWING
403-S1-1, GENERAL PLAN

CONTRACT NUMBER	ARMY DESIGNATION	BUILDER
6644	LT 823 THRU LT 828 INCL.	MARIETTA MFG. CO. FOR GOV'T. PURCH. COMM. OF THE SOVIET UNION IN THE U.S.A.
W-33-092 tc-2765	LT-814 THRU LT-818 INCL.	
W-33-092 tc-1007	LT-784 THRU LT-793 INCL.	
W-2789 tc-1318	LT-633 THRU LT-640 LT-649 THRU LT-653	
W-2789 tc-252	LT-217 THRU LT-231 INCL.	MARIETTA MANUFACTURING CO. POINT PLEASANT W. VA.

NOTE:
LT-823 THRU LT-828 NOT COMPLETED FOR U.S. ARMY DUE TO CANCELLATION OF CONTRACT. 8-15-45

	MARK	ALTERATION	BY	DATE	APP'D
553	A	REVISED IN ACCORDANCE WITH DETAILS OF CONSTRUCTION	K.P.	10-12-43	
ALT. NO.	3	REVISED BY WAR DEPT. --- 8-5-'42	E.C.F.	8-27-42	F.
	2	REDRAWN - SUPERCEDES DWG. DATED 2-23-'42	R.L.D.	5-6-42	F.

APPROVED BY A.B.S. APR. 8, 1942
APPROVED BY U.S.C.G. APR. 22, 1942
APPROVED BY WAR DEPT., Q.M.C. MAY 1, 1942

MARIETTA MANUFACTURING COMPANY
POINT PLEASANT, WEST VIRGINIA

See S40-53

APPROVED BY: Hubert Wenzel
SUPERVISING NAVAL ARCHITECT
DATE 7/28/42

APPROVED BY: Duval C. Watkins Acg.
CHIEF, MARINE DESIGN
O.C.T., S.O.S.

MARINE DESIGN AND REPAIR BRANCH
TRANSPORTATION DIVISION
SERVICES OF SUPPLY - WAR DEPT.

149-FOOT OCEAN-GOING STEAM TUG

M. D. & R. DESIGN 254

MACHINERY ARRANGEMENT

PRINCIPAL DIMENSIONS

LENGTH OVERALL	149'-0"
LENGTH BETWEEN PERPENDICULARS	140'-0"
BEAM MOULDED	33'-0"
DEPTH MOULDED AT MIDSHIPS	18'-9"

DESIGN #254

Drawn - R.L.D.
Traced - WOO
Checked - E.C.F.
Approved - G.

W. C. NICKUM AND SONS
NAVAL ARCHITECTS
MARINE ENGINEERS
71 COLUMBIA ST.
SEATTLE, WASH.

Date - 5-6-'42
Scale - 1/4" = 1'-0"
DR. NO. 403-S40-7
ALT. 3

M. D. & R. DWG. NO. 254-6