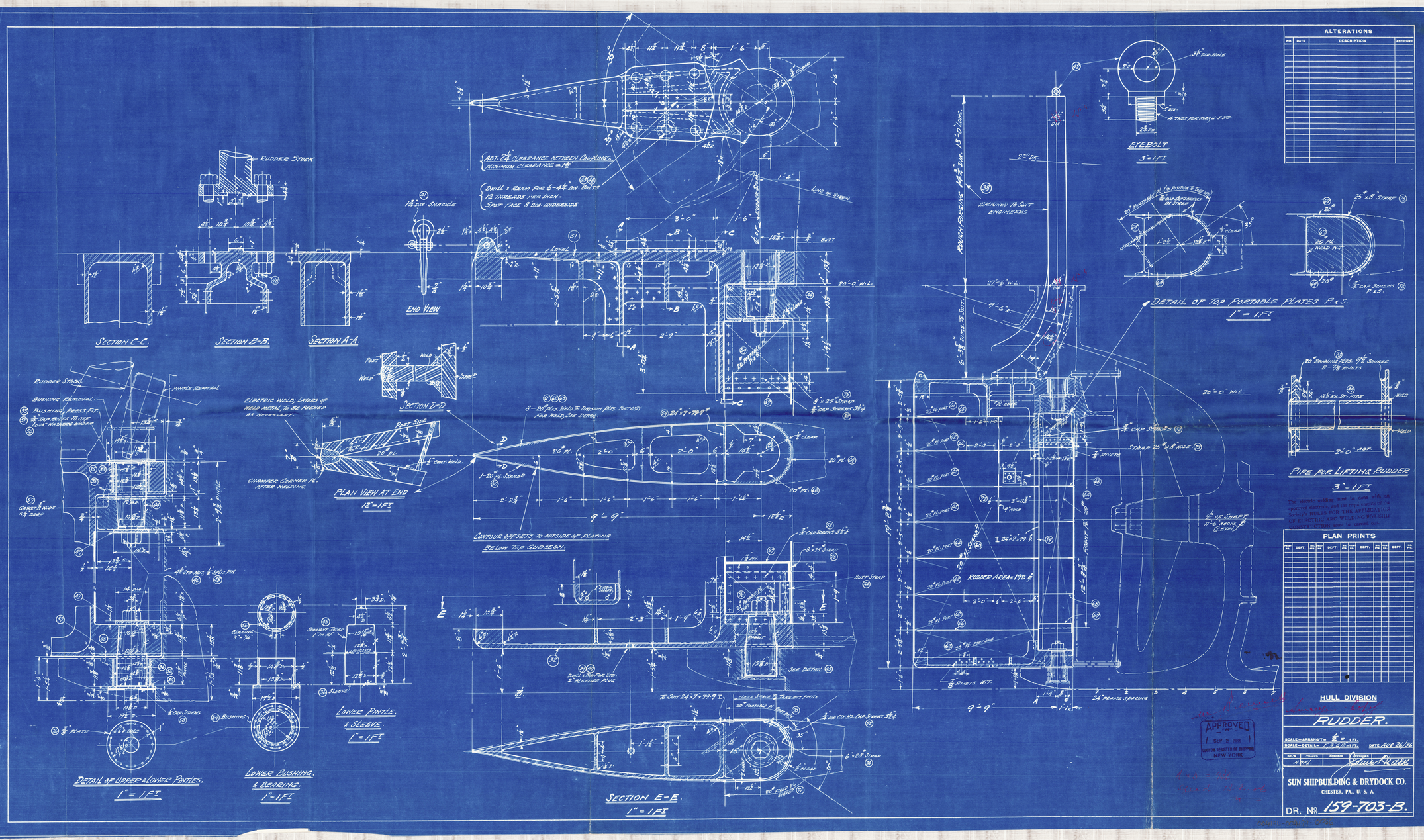

ALTERATIONS

NO.	DATE	DESCRIPTION	APPROVED

BILL OF MATERIAL

PC. NO.	NAME	NO. PC'S	MATERIAL	DETAIL DRAWING NO.	PATTERN OR DR. NO.	REMARKS
31	RUDDER UPPER CASTING	1	CAST STEEL		159-703-31	ANNEALED TO MEET A.B.S. &
32	RUDDER LOWER CASTING	1	CAST STEEL		159-703-32	LLOYDS SPECIFICATIONS.
33	FLANGED BUSHING TOP	1	COMP. G		159-703-33	18" LONG OVERALL
34	FLANGED BUSHING BOTTOM	1	COMP. G		159-703-34	17" " "
35	PINTLE SLEEVE TOP	1	COMP. G		159-703-35	14" " "
36	PINTLE SLEEVE BOT.	1	COMP. G		159-703-36	12" " "
37						
38	RUDDER STOCK	1	WROT. ST.		TO A.B.S. AND	LLOYDS REQUIREMENTS.
39	KEY FOR PLUG	1	WROT. ST.	S-704-07 FAB.		
40	BLEEDER PLUG	1	WROUGHT IRON	S-704-07 FAB.		
41	1 1/4" DIA. AVENUE SHACKLE	1	STEEL		2" DIA. SCREW PIN, T	DRAWN OR BILS. 8-61 FIG. 5-210
42	2 1/4" DIA. EYEBOLT	1	STEEL			AS DRAWN
43	1/2" DIA. NON-NR. BOLT & NUT	16	STEEL			1 1/4" LONG U.N.F.
44	PINTLE TOP	1	STEEL			AS DRAWN 2'-9 1/2" LONG
45	PINTLE BOT.	1	STEEL			AS DRAWN 2'-7 1/2" LONG
46	PINTLE NUT, 4 1/4" DIA. NO.	2	STEEL			
47	PINTLE WASHER	2	STEEL			14" O.D. × 1 1/4" THICK.
48	SPLIT PIN	8	STEEL			1/2" DIA. 5" LONG U.N.F.
49	3/4" DIA. STRONG PIN	1	STEEL			ABOUT 2'-2" LONG OVERALL
50	1/2" DIA. RIVETS, SPECIAL	36	SOFT STEEL		STAMPED	1" THICK 2-3/4" DIA. BOLT
51	1/2" DIA. TAP BOLTS, HEX. NO.	36	TOUGH BRONZE			2 1/2" LONG U.N.F.
52	1/2" DIA. CAP SCREW, CSK. NO.	84	BRASS			1 1/2" LONG OVERALL
53	1/2" DIA. CAP SCREW, CSK. NO.	4	BRASS			1" LONG OVERALL
54						
55	BEARING TOP	4	LIGNUM VITAE			3" WIDE × 1 1/8" LONG
56	BEARING BOTTOM	4	LIGNUM VITAE			3" WIDE × 1 1/8" LONG
57	GASKET	2	CANVAS			1/8" THICK × 3/4" WIDE 3 1/4" LONG
58						
59	I BEAM STIFFENER	1	M.S.M.			24" × 7" × 79.7# 16'-6" LONG
60	STRAKE PLATE	1	"			14'-6" × 105" × 20#
61	PORT PLATE TOP	1	"			9'-2" × 87" × 20#
62	PORT PLATE MIDDLE	6	"			8'-9" × 69 1/2" × 20#
63	PORT PLATE BOT.	1	"			9'-2" × 38" × 20#
64	FRONT PLATE	1	"			12'-4" × 72" × 20#
65	DIVISION PLATE TOP	1	"			8'-6" × 24 1/2" × 20#
66	DIVISION PLATE MIDDLE	6	"			8'-6" × 70 1/2" × 20#
67	DIVISION PLATE BOT. NO.	2	"			2'-3" × 24" × 20#
68	FRONT DIVISION PL. MIDDLE	4	"			8'-0" × 24 1/2" × 20#
69	PORTABLE PL. TOP	2	"			2'-9" × 26" × 20#
70	PORTABLE PL. BOT.	1	"			2'-6" × 21" × 20#
71	FIXED PL. FRONT BOT.	1	"			4'-0" × 21" × 20#
72	STIFFENING PL.	3	"			2'-3 1/2" × 22" × 20#
73	CHAINING PL. AT PIPE	2	"			1'-9" × 21" × 20#
74	BUTT STRAP TOP	1	"			11'-2" × 6" × 25#
75	BUTT STRAP TOP & BOT.	2	"			6'-0" × 8" × 25#
76	PINTLE BEARING PL.	1	"			20" DIA. × 15"
77						
78						
79						
80						

GENERAL NOTES.

1 - RUDDER TO COMPLY WITH A.B.S. & LLOYDS TESTS & REQUIREMENTS.
2 - ALL NECESSARY TEMPLATES FOR MARKING PLATES, FURNISHED BY HULL DEPT.
3 - RIVET HOLES = TRUE TO BE DRILLED BY YARD.
4 - PERMISSABLE VARIATION IN STREAM-LINE CONTOURS = ± 1/8"
5 - INSIDE OF RUDDER TO BE COATED WITH APEXIOR.

PLAN PRINTS

NO.	DEPT.	NO.	NO.	DEPT.	NO.	NO.	DEPT.	NO.	NO.	DEPT.	NO.	NO.	DEPT.	NO.	NO.

MATERIAL

CONTRACT	CE & NWT	DATE	APPROVED
159	703-4A1		

B M PRINTS

NO.	DEPT.	NO.	NO.	DEPT.	NO.	NO.	DEPT.	NO.	NO.	DEPT.	NO.	NO.	DEPT.	NO.	NO.

CHARGE

ACTION

HULL DIVISION

RUDDER.

SCALE - ARRANGT = 1/4" = 1 FT.
SCALE - DETAIL = 1/2", 3/4", 1" = 1 FT.
DATE AUG. 26/36

REV'N	TRACED	CHECKED	APPROVED
APPL.			EDWARD H. GARN

SUN SHIPBUILDING & DRYDOCK CO.
CHESTER, PA., U. S. A.

DR. Nº 159-703-B.