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CAPACITIES

BALLAST TANKS	GAL	TONS(SW)	FUEL OIL TANKS	GAL	TONS(OIL)	LUBRICATING OIL TANKS	GAL	TONS(OIL)
NO. 1 MAIN BALLAST	12717	48.57	NO. 1 NORMAL FUEL OIL	11400	35.40	NO. 1 ENGINE STOWAGE 95% CAP	855	2.94
NO. 2A & 2B	15500	59.20	NO. 2 NORMAL FUEL OIL	13050	40.53	NO. 2 ENGINE STOWAGE 95% CAP	469	1.61
NO. 2C & 2D	16861	64.38	NO. 6 NORMAL FUEL OIL	14900	46.27	NO. 3 ENGINE STOWAGE 95% CAP	1473	5.06
NO. 6A & 6B	17527	66.96	NO. 7 NORMAL FUEL OIL	10669	33.13			
NO. 6C & 6D	18567	70.92	FUEL OIL COLLECTING	2980	9.25			
			FUEL OIL EXPANSION	2980	9.25			
SAFETY	6336	24.19	NO. 1 CLEAN FUEL OIL - 95% CAP	950	2.95	TOTAL	2797	9.61
NO. 3 FUEL BALLAST (3A & 3B)	19614	74.92				NO. 1 MAIN ENGINE SUMP 75% NET CAP	444	1.53
NO. 4 FUEL BALLAST (4A & 4B)	24499	93.58						
NO. 5 FUEL BALLAST (5A & 5B)	19823	75.72				NO. 3 MAIN ENGINE SUMP 75% NET CAP	444	1.53
TOTAL	151444	578.44				NO. 4 MAIN ENGINE SUMP 75% NET CAP	444	1.53
						TOTAL	1332	4.59
						MAIN MOTOR SUMPS 182 75% NET CAP	168	.58
						COMBINED TOTAL	4297	14.73
VARIABLE BALLAST TANKS	GAL	TONS(SW)						
NO. 1 AUXILIARY	8184	31.26	FUEL BALLAST					
NO. 2 AUXILIARY	8184	31.26	NO. 3A & 3B	19246	59.77			
FORWARD TRIM	6433	24.57	NO. 4A & 4B	24032	74.63			
FORWARD WRT	1309	5.00	NO. 5A & 5B	19410	60.28			
AFTER TRIM	5034	19.24						
AFTER WRT	1384	5.28	TOTAL	62688	194.68			
NEGATIVE	3172	12.10	COMBINED TOTAL	119168	370.07			
TOTAL	33700	116.61	FRESH WATER TANKS	GAL	TONS(FW)			
			NO. 1 & 2	1980	7.35			
			NO. 3 & 4	1980	7.35			
BOW BUOYANCY	3837	14.65	TOTAL	3960	14.70			
SANITARY TANKS		(S.W.)	BATTERY FRESH WATER					
NO. 1 SANITARY (FWD)	320	1.22	FWD	597.8	2.22			
NO. 2 SANITARY (AMIDSHIPS)	1100	4.20	AFT	597.8	2.22			
NO. 3 SANITARY (AFT)	442	1.69						
TOTAL	1862	7.11	TOTAL	1195.6	4.44			

- NOTES
1. MBT CAPACITIES ARE GROSS TANK MINUS RESIDUAL WATER. GROSS TANK IS TANK PLUS VENT PIPING. VOLUME OCCUPIED BY LEAD BALLAST HAS NOT BEEN ACCOUNTED FOR IN THESE CALCULATIONS.
2. FUEL OIL TANK CAPACITIES: "GALLONS" IS GROSS TANK. "TONS OIL" IS USEABLE CAPACITY WHICH IS TANK CAPACITY MINUS WATER SEAL.

PRINCIPAL DIMENSIONS

LENGTH OVERALL (ACT)	306'-3 1/2"
LENGTH BETWEEN PERPENDICULARS (DES)	307'-0"
FWD. END OF BOW AFT OF F.P.	8 1/2"
LENGTH OF STRAIGHT KEEL	154'-7 1/4"
BREADTH, MOLDED	27'-1 3/4"
BREADTH, EXTREME	27'-3 1/4"
RATIO - LENGTH TO BEAM	11.23
DRAFT - SURFACE CONDITION TO UNDERSIDE OF KEEL PLATES (MEAN) DWL	15'-3"
SHAFTS - DIVERGE AT ANGLE WITH C OF SHIP	1° 39'
SHAFTS - C AT MAIN MOTOR (14" AFT OF FR. 104) FROM C OF SHIP	4'-3 1/2"
SHAFTS - C FROM BASELINE AT FR. 128	6'-9"
SHAFTS RAKE OUTBOARD & AFT. PER INCH FROM C	0.02874"
SHAFTS RAKE FROM BASELINE & FWD. PER INCH	0.02613"
SHAFTS - C AT MAIN MOTOR (14" AFT OF FR. 104) ABOVE BASELINE	8'-0"
PROPELLER CENTER FWD OF A.P.	18'-6"
RUDDER AXIS FWD OF A.P.	10'-6"
NUMBER OF FRAMES	137

ACCOMMODATIONS

COMPARTMENT	OFFICERS	C. P. O.	CREW
FORWARD TORPEDO ROOM			13
OFFICERS' QUARTERS	10	5	
CREW'S QUARTERS			36
AFTER TORPEDO ROOM			15
TOTAL	10	5	64
TOTAL ACCOMMODATIONS	79		

HEIGHTS FROM THE 15'-3" (MEAN) DWL

TOP OF AN/DRA-11 HELICLYL RAISED	57'-7 1/2"
TOP OF NO. 1 PERISCOPE RAISED	47'-4 3/8"
O. C. OF NO. 1 PERISCOPE RAISED	47'-2 5/16"
TOP OF NO. 2 PERISCOPE RAISED	51'-4 1/4"
O. C. OF NO. 2 PERISCOPE RAISED	51'-2 7/16"
TOP OF ECM/DF MAST RAISED	48'-7 1/2"
TOP OF SNORKEL MAST RAISED	46'-0 1/2"
TOP OF SNORKEL EXHAUST RAISED	38'-6 1/2"
UHF & IFF ANTENNA RAISED	47'-9 1/2"
TOP OF MIDFED WHIP ANT RAISED	56'-6"
TOP OF SS RADAR ANT. RAISED	43'-5 3/4"

FRAME SPACING

0 TO FR 35	24"
FR 35 TO FR 62	30"
FR 62 TO FR 69	24"
FR 69 TO FR 103	30"
FR 103 TO FR 104	24"
FR 104 TO FR 106	30"
FR 106 TO FR 137	24"
NUMBER OF FRAMES	137

COMPARTMENT FLOODABLE
EFFECT TABULATION

WATER TIGHT COMPARTMENT	FLOODABLE VOLUME		CENTER OF GRAVITY OF WATER	
	GALLONS	TONS	ABOVE BOT OF KEEL	FWD. OF FR. 89
FORWARD TORPEDO ROOM	33365	127.40	13.00	99.50
OFFICERS QTRS. & FWD. BATTERY SPACE	31600	120.70	13.52	65.25
CONTROL, RADIO, RADAR RMS, & EQUIPT. SPACE	30044	114.70	12.14	38.04
CREWS QUARTERS, MESS & GALLEY, STORE ROOM & AFTER BATTERY SPACE	47609	181.80	13.14	1.99
FORWARD ENGINE ROOM	27994	106.90	12.44	33.48
AFTER ENGINE ROOM	31682	121.00	12.26	60.04
MANEUVERING & MOTOR ROOMS	23296	89.00	12.25	85.91
AFTER TORPEDO ROOM & STOWAGE	37463	143.17	12.80	112.00
CONNING TOWER	5012	19.10	24.38	37.29

NAVIGATION LIGHT HEIGHTS FROM
15'-3" (MEAN) DWL

C OF FORD ANCHOR LT.	16'-11"
C OF MASTHEAD LT.	28'-8"
C OF SIDE LIGHT	21'-9"
C OF STERN LIGHT	8'-4"
C OF AFT ANCHOR LT.	8'-9"
HEIGHT FORD ANCHOR LT. ABV. AFT A.L.T.	8'-1"
C OF EMERGENCY STERN LT.	12'-2 1/2"

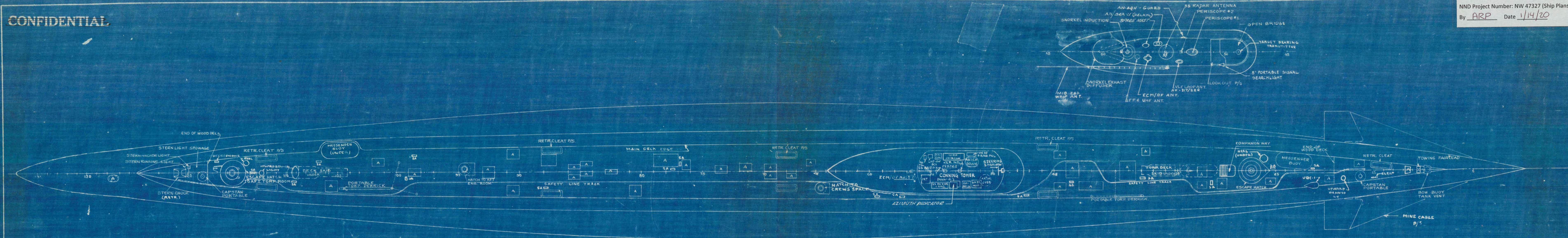
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SUBMARINE SS391

GENERAL DIMENSIONS

SCALE - PLATE NO. 2
BUSHIPS NO. SS391-SOI03-68301Declassified under Executive Order 13526
NND Project Number: NW 47327 (Ship Plans)
By ARP Date 1/14/20

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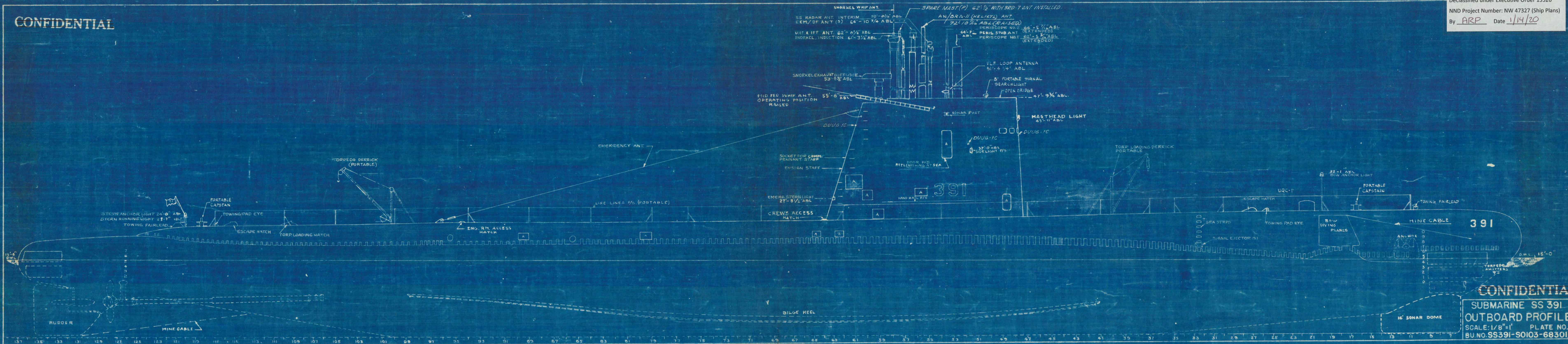


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SUBMARINE SS 391
MAIN DECK & BRIDGE DECK
SCALE: 1/8"=1' PLATE NO. 5
BU. NO. SS391-SOI03-68301

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By ARP Date 1/14/20

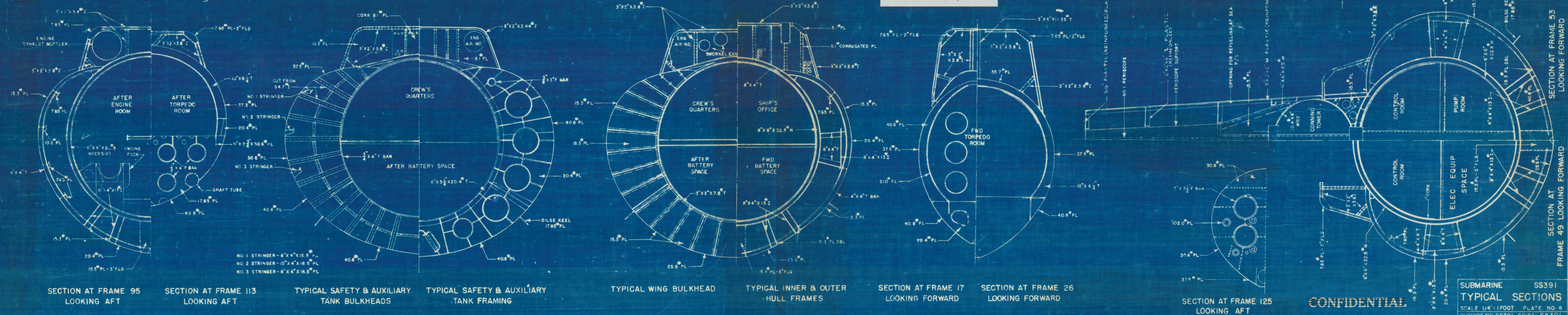


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SUBMARINE SS391
TYPICAL SECTIONS
SCALE 1/4"=1'00" PLATE NO. 8
BUSHIPS NO. SS391-S0103-68301