AFTER CANOPY
DESIGN FITTINGS TO SUIT INSTALLATION FOR POSSIBLE USE INDEPENDENT OF FORWARD CANOPY
FORWARD CANOPY
DESIGN FITTINGS TO SUIT INSTALLATION FOR POSSIBLE USE INDEPENDENT OF AFTER CANOPY.
THIS SECTION (PORT TO STBD), IS TO BE REMOVABLE WITHOUT AFFECTING USE OF EITHER FORWARD OR AFTER CANOPY.
DESIGN SHOWING BOW SOCKET INSTALLATION
CROWN SAME AS MAIN DECK
2'-2½" R
6"
Bow Diagram Pc. No. 44
Scale 1" = 1'-0"
2'4½" R
Bow Diagram Pc. 1
Scale 1" = 1'-0"
6" STRAIGHT
4'-5¾"
Bow Diagram Pc. 2
Scale 1" = 1'-0"
2'-2½"
1'-6¼" R
4' 8¼" R
Bow Diagram Pc. No. 45
Scale 1" = 1'-0"
STAPLE
¼" DIA.
WELD
7⅛"
4⅛"
2"1/16
5⅛"
2½"
⅞"
SLIDE ⑦
BOW
NOTE:
ANGLE SHOWN AT HEEL OF FORWARD BOWS ARE APPROXIMATE. THE BUILDER SHALL DETERMINE THE EXACT BEVEL TO SUIT COMPACT STOWAGE ON THE FORWARD DECK
Bow Diagram Pcs. 1 & 2 & 3 & 4 Showing Bows In Folded Position (Approximate)
Scale 12" = 1'-0"
ENGINE CASING
SIDE OF ENGINE CASING
SEAT
STRAP
DETAIL "C"
DETAIL "B"
TRACK
ACCESS CURTAIN
FIXED LIGHTS
ROLL-UP TYPE CURTAIN
SECTION "A-A"
DETAIL IN WAY OF SLIDING BOW
HINGE ASSEMBLY DETAIL
BOW END FITTING
MAIN DECK
BASE LINE

LIST OF MATERIAL
QUANTITY FOR ONE BOAT

PC.	NAME	QUAN.	SPEC.	MATERIAL	REMARKS
1	BOW	1	MIL-P-15692	STEEL GALV.	½" I.P.S. PIPE
2	BOW	1	MIL-P-15692	STEEL GALV.	½" I.P.S. "
3	BOW	1	MIL-P-15692	STEEL GALV.	½" I.P.S. "
4	BOW	1	MIL-P-15692	STEEL GALV.	½" I.P.S. "
5	BOW END FITTING	8	49B3	BRONZE	
6	SHOULDER BOLT	8	MIL-B-895	BRASS	5/16" DIA. WITH SHALLOW NUT
7	SLIDE	8	49 B 3	BRONZE	
8	AFT. HINGE	2	49 B 3	BRONZE	
9	HINGE PLATE	2	49B3	BRONZE	
10	SOCKET	8	49 B 3	BRONZE	
11	EYE PAD	3	49 B 3	BRONZE	DIE NO. 1159
12	SHOULDER BOLT	8	MIL-B-895	BRASS	
13	THIMBLES	12	FF-T-276	STAINLESS STEEL	MESCO 3231 NO. OR EQUAL
14	WASHERS	16	MIL-W-1165	BRASS	¼"
15					
16	TRACK	2	COMM.	BRONZE	1¼" × 12'-0" LG. MERRIMAN BROS. FIG 406A OR EQUAL
17	WOOD SCREWS	AS REQD.	42S1	BRASS	1" NO. 14 FLAT HEAD
18	TRACK STOPS	4	COMM.	BRONZE	MERRIMAN 406-S OR EQ.
19	EYE BOLT	2	COMM.	BRONZE	3/8" DIA. SHANK MERRIMAN NO. 482
20	TIE ROD	2	MIL-P-15692	STEEL GALV	½" I.P.S. PIPE
21	WIRE ROPE	6	22C4	STAINLESS STEEL	⅛" DIA. 7X19
22	GRAB LINE	2	MIL-R-16060	MANILA	½" DIA. LENGTH TO SUIT
23	BACK STAY	3	MIL-R-16060	MANILA	½" DIA. " " "
24	CURTAIN STRAP	30	JAN-W-530	COTTON WEB.	1½" WITH FASTENERS. LENGTH TO SUIT.
25	CANOPY COVERING	1	24C20	COTTON DUCK	NO. 10 SEE NOTE #8
26	CLEVIS	4	COMM	BRONZE	PERKO FIG. NO. 865
27	FASTENER	AS REQ'D.	COMM.	BRASS	#8895 UNITED CARR FASTENER EXCEPT CLOSED SOCKET
28	LASHING	2		MANILA	5/16" DIA. LENGTH TO SUIT
29	GROMMET ½" DIA. HOLE	34	42G1	BRASS	NO. 4, TYPE "B"
30	ROPE	2	21-R-7	MANILA	⅜" × 4'-0"
31	FASTENER	REQ'D	COMM.	BRASS	UNITED CARR 8896 EXCEPT CLOSED SOCKET
32					
33	SNAP FASTENER	REQ'D	COMM.	BRASS	UNITED CARR 8883 EXCEPT CLOSED SOCKET
34	LASHING HOOKS	16	COMM	BRONZE	MESCO 255 OR EQUAL
35	HINGE PIN	2	46B15	C.R.S. OR BRONZE	½" TOGGLE PIN
36	HINGE RIVET	4	43R4	BRASS	3/16" D. CK/CK
37					
38					
39	SLEEVE	REQD	JAN-W-530	COTTON WEBBING	TYPE II 5" WIDE (ABOUT)
40	FIXED LIGHT	12	COMM.	VINYLITE	BAKELITE CORP. VT 1932 CLEAR 01-40-PP OR EQUAL
41	STRAP	6	JAN-W-530	COTTON WEBBING	TYPE V 1½"
42	CLEAT	2	COMM	BRONZE	5" NO. 384 PERKINS
43	BOW	1	MIL-P-15692	STEEL GALV	½" I.P.S. PIPE
44	BOW	3	MIL-P-15692	STEEL GALV	½" I.P.S. "
45	BOW	1	MIL-P-15692	STEEL GALV	½" I.P.S. "
46	THIMBLES, MANILA	2	FF-T-276	STEEL	FOR ⅜" DIA. ROPE
47	FASTENER	REQ'D	COMM.		UNITED CARR #8882

GENERAL NOTES

1. IT IS THE INTENT OF THIS PLAN TO SHOW GENERAL REQUIREMENTS ONLY. THE FINISHED WORKING PLANS SHALL SHOW CONSTRUCTION DETAILS, TYPE OF STITCHING, AND SEAMS IN ACCORDANCE WITH LATEST SHOP PRACTICE TO PRODUCE CANOPIES AS NEAR RAIN PROOF AND FREE FROM TOP SAG AS PRACTICABLE. FITTINGS ARE TO BE PROVIDED FOR SECURING THE FORWARD SLIDING CANOPY IN SERVICE POSITION INDEPENDENT OF THE AFT CANOPY, TO PERMIT POSSIBLE USE OF THIS SECTION ONLY.

2. CANVAS COVERS ARE TO BE PROVIDED FOR EACH FORWARD AND AFTER TOP COVERING.

3. PROVIDE STRAPS FOR SECURING THE SLIDING CANOPY BOWS ON MAIN DECK FORWARD OF THE COCKPIT COAMING. THE PORTABLE BOWS FOR THE AFTER CANOPY ARE TO BE STOWED IN THE FORWARD COCKPIT UNDER THE MAIN DECK JUST AFT OF BULKHEAD 4. PROVIDE STOWAGE FITTINGS.

4. ALL FITTINGS SHALL BE DESIGNED TO PROVIDE FOR ABSENCE OF RATTLE OR OTHER NOISES. ALL HARDWARE OR METAL FITTINGS EXPOSED TO THE WEATHER SHALL BE BRASS, OR BRONZE, CHROMIUM PLATED.

6. THE REFERENCE TO COMMERCIAL CATALOGS IS INTENDED FOR DESCRIPTIVE PURPOSES ONLY AND IS NOT TO BE CONSTRUED AS RESTRICTIVE FOR DESIGN OR PROCUREMENT.

7. THE REFERENCED COMMERCIAL CATALOGS ARE ISSUED BY THE FOLLOWING FIRMS.
   - (a) UNITED CARR FASTENER CORP. 31 AMES ST. CAMBRIDGE, MASS.
   - (b) BAKELITE CORP., 247 PARK AVENUE, NEW YORK, N.Y.
   - (c) MERRIMAN BROS. 185 AMORY STREET, BOSTON 30, MASS.
   - (d) PERKINS MARINE LAMP AND HARDWARE CORP. 1943 PITKIN AVENUE, BROOKLYN, N.Y.
   - (e) MARINE EQUIPMENT AND SUPPLY CO. 116 WALNUT ST., PHILA., PENN.

8. MATERIAL FOR CANOPY TOP, AND SIDE CURTAINS SHALL BE NO. 10 UNBLEACHED CANVAS TREATED WITH DECK BLUE FIRE, WATER, AND WEATHER RESISTANT COMPOUND.

9. ~~ALL DIMENSIONS SHOWN ON PLAN ARE APPROXIMATE~~ THE EXACT DIMENSIONS ARE TO BE ESTABLISHED BY THE CONTRACTOR AND ARE TO BE SHOWN ON THE FINISHED WORKING PLANS.

10. ALL FITTINGS ARE TO HAVE EDGES ON CORNERS SLIGHTLY ROUNDED OFF.

11. CANVAS TABS FOR GRAB LINE ARE TO BE SEWN WITH NYLON THREAD.

REFERENCE PLANS

NO.	TITLE	BUSHIPS NO.
1	CONSTRUCTION PLAN & GENERAL ARRGT.	S8228(3)-40-653444

REVISIONS

REV.	DATE	DESCRIPTION	DESIGN SECTION

NAVY DEPARTMENT
WASHINGTON, D.C.

BUREAU OF SHIPS

EXAMINED	
OFFICIAL	SIGNATURE
HULL DESIGN OFFICER	A. Lindsey
HEAD NAV. ARCH.	M. J. Watson
SECTION HEAD	A. A. Fyfe
REVIEWED	Kent P.M.R.
TRACED	E. E. Harris
DRAWN	E. E. Harris

40' UTILITY BOAT

CANOPY ARRANGEMENT & DETAIL

APPROVED
DATE 5 JULY 1951
E. A. Wright
FOR CHIEF OF BUREAU

BOAT DRAWING

BUREAU OF SHIPS NO.			REV.
S8228(3)	40	H 653448	
SCALE: AS INDICATED	SHEET OF SHEETS		

GENERAL NOTES

1. ALL STRUCTURAL MATERIAL AND INSIDE OF PLANKING SHALL BE TREATED WITH AN APPROVED PRESERVATIVE. SEE SPECS.
2. THE FORWARD ENDS OF HOGGING GIRDERS, STRINGERS AND CLAMPS MAY BE TAPERED SLIGHTLY TO FACILITATE BENDING.
3. THE ENDS OF HOGGING GIRDERS, STRINGERS AND CLAMPS SHALL BE SECURED BY THE USE OF BOLTED ANGLE CLIPS, OR GUSSET PLATES, AS APPROPRIATE.
4. THE FRAMING OF THE OUTBOARD SEATS IN WAY OF LIFE PRESERVER STOWAGE SHALL INCLUDE GUTTER BARS UNDER THE EDGES OF THE PORTABLE SEAT TOPS. THE INBOARD ENDS OF THE GUTTER BARS SHOULD BE LAMBS' TONGUED TO PROVIDE DRAINAGE CLEAR OF LOCKER FRONTS.
5. INSTALL A FLUSH TYPE HATCH IN THE BRIDGE DECK OUTBOARD OF THE PORT SIDE OF THE ENGINE CASING.
6. WHERE TWO LAYERS OF PLYWOOD ARE USED, THE INNER LAYER MAY BE FASTENED WITH EITHER FETTER RING NAILS OR WOOD SCREWS. THE OUTER LAYER SHALL BE FASTENED WITH 2¼" #12 WOOD SCREWS.
7. ALL CORNERS OR EXPOSED EDGES OF HULL TRIM AND JOINER WORK SHALL BE CHAMFERED, OR ROUNDED OFF.
8. ALL HARDWARE AND FITTINGS SHALL BE BRONZE OR BRASS. UNITS EXPOSED TO THE WEATHER SHALL BE CHROMIUM PLATED.
9. INSTALL 70 CUBIC FEET OF AN APPROVED LIGHT-WEIGHT FLOATATION MATERIAL. LOCATE THE MATERIAL EQUALLY DISTRIBUTED PORT AND STARBOARD IN OUT OF THE WAY PLACES, CARE TO BE TAKEN TO MAINTAIN, OR PROVIDE FOR, FREE AIR PASSAGE TO ALL PARTS OF HULL STRUCTURE.
10. *THE BUILDING YARD SHALL SWAMP THE PROTOTYPE HULL WITH THE BUOYANCY MATERIAL GENERALLY DISTRIBUTED. AFTER OBSERVING THE TRIM AND HEIGHT OF FLOTATION THE YARD WILL DETERMINE THE FINAL LOCATION AND QUANTITY OF FLOTATION MATERIAL NECESSARY FOR ADEQUATE BUOYANCY AND APPROXIMATELY ZERO TRIM.*
    THE FLOTATION MATERIAL SHALL BE IN ACCORDANCE WITH PAR. 7(J) OF THE DETAIL SPECIFICATIONS DATED 5 JULY, 1951, AS FOLLOWS:.. "MAY BE EITHER HARD CELLULAR RUBBER NAVY DEPARTMENT SPECIFICATION 33-B-3, OR 'STYRO-FOAM' WEIGHING NOT MORE THAN 1.9 POUNDS PER CUBIC FOOT, OR HARD POLYVINL CHLORIDE SPONGE OF WEIGHT FROM 2½ TO 3 POUNDS PER CUBIC FOOT."

HULL FASTENING SCHEDULE

1. STEM TO KEEL. — ½" DIA. BOLTS STAGGERED
2. FLOORS TO KEEL. — ⅜" DIA. BOLTS TWO TO EACH FLOOR.
3. FRAMES TO FLOORS. — 5/16" DIA. BOLTS FOUR TO EACH SIDE OF KEEL AFT OF FRAME NUMBER 15. FORWARD OF FRAME #15 SPACE ABOUT 7" ¢ TO ¢.
4. CLAMP TO FRAME — ⅜" DIA. BOLT. ONE TO EACH FRAME, STAGGERED IN CLAMP.
5. BEAMS TO CLAMP — 5/16 DIA. BOLT. ONE TO EACH BEAM.
6. SHELF TO BEAM — 5/16 DIA. BOLT. ONE TO EACH BEAM.
7. FRAMES TO STRINGERS. — 5/16" DIA. BOLTS. ONE TO EACH FRAME. STAGGERED IN STRINGER.
8. QUARTER KNEES TO OTHER STRUCTURE. — ⅜" DIA. BOLTS, OR HEADED DRIFTS.
9. BREASTHOOK TO STEM — ½" DIA. BOLTS, OR HEADED DRIFTS.
10. BREASTHOOK TO SHELF — ⅜" DIA. BOLTS.
11. FILLER BLOCKS ⅜" BOLTS OR DRIFT SPIKES.
12. TRANSOM STIFFENERS TO FRAMING — 5/16" DIA. BOLTS.
13. HORN TIMBER TO KEEL — 7/16" DIA. BOLTS AT SIDES OF SHAFT ALLEY. ½" DIA. BOLTS ELSEWHERE.
14. PLYWOOD BRACKETS AND KNEES — 5/16" DIA. BOLTS TO FRAMES AND DECK BEAMS.
15. ENGINE STRINGERS TO FLOOR FRAMES. 7/16" DIA. BOLTS.
16. ENGINE BED TO ENGINE STRINGERS. ½" DIA. BOLTS.
17. WEB FRAMES — ⅜" DIA. BOLTS.
18. PLYWOOD SUB-DECKING — 6d. FETTER-RING NAILS, OR 1" NUMBER 8 SCREWS.
19. DECK MARGIN AT SHEER (COVERING BOARD) — 5/16" DIA. BOLTS AND NUMBER 12 FLAT HEAD WOOD SCREWS.
20. TEAK STRIP DECKING — 1¾" × #8 FLAT HEAD WOOD SCREWS.
21. PLANKING TO FRAMES, BOTTOM — 2" × .165" DIA. MONEL FETTER-RING NAILS. SIDES, 1¾" × .165" DIA. MONEL FETTER RING NAILS. SET HEADS IN ABOUT 3/32" AND PUTTY OVER AFTER PRIMING COAT OF PAINT HAS BEEN APPLIED TO HULL.
22. LEAD HOLES OF BETWEEN 50 TO 60 PER CENT OF ORIGINAL WIRE DIAMETER OF FASTENINGS SHALL BE DRILLED FOR ALL NAIL AND SCREW FASTENINGS.
23. ALL HULL STRUCTURAL FRAMING SHALL BE SECURED WITH GALVANIZED THRU BOLTS. THE NUT ENDS ARE TO BE INSIDE OF HULL. STEP BOLTS SHALL BE USED FOR GENERAL FASTENING OF PARTS. FIN-NECK CARRIAGE BOLTS MAY BE USED IN LIEU OF STEP BOLTS WHERE THEY ARE NOT READILY OBTAINABLE IN THE SIZES OR LENGTHS REQUIRED.

REFERENCES

No.	TITLE	BUSHIPS DRAWING NUMBER
1.	LINES & OFFSETS	S8228(3)-40-653443
2.	STEERING GEAR ARRANGEMENT & DETAILS	S8228(3)-40-653445
3.	MACHINERY ARRANGEMENT	S8228(3)-40-653446
4.	HOISTING GEAR	S8228(3)-40-653447
5.	CANOPY PLAN	S8228(3)-40-653448
6.	ELECTRICAL PLAN	S8228(3)-40-653449

NAVY DEPARTMENT
WASHINGTON, D. C.

BUREAU OF SHIPS

EXAMINED	
OFFICIAL	SIGNATURE
DESIGN OFFICER	
HEAD NAV. ARCH	M. J. Watson
CODE 452	BOATS AND SMALL CRAFT
SECTION HEAD	
REVIEWED	
TRACED	Wm. Dodge
DRAWN	

40 FOOT UTILITY BOAT
CONSTRUCTION PLAN AND GENERAL ARRANGEMENT

APPROVED E. A. Wright
FOR CHIEF OF BUREAU
DATE: 5 JULY 1951

BOAT DRAWING

BUREAU OF SHIPS NUMBER				REV.
S8228(3)	40	H	653444	

SCALE: 1" & 3" = 1 FT.
SHEET 1 OF 1 SH

PLAN VIEW
ELEVATION
WEB STRAP IN USE WITH ALL SECTIONS OF CANOPY
WEB STRAP IN USE WITH FORWARD SECTION OF CANOPY
WEB STRAP IN USE WITH AFT SECTION OF CANOPY
STBD LOCATION SHOWN PORT SIDE SIMILIAR
ENGINE HATCH
BHD 18
CANOPY BOW
CAP
COAMING
DRILL THRU & CSK. 4 HOLES FOR #14 WOOD SCREW
DRAINHOLE
TAKE ANGLE OF BASE FROM DECK CAMBER
FINISH SMOOTH ALL OVER
DRILL THRU & CSK. 4 HOLES FOR #12 WOOD SCREW
CAST TO SUIT DECK CAMBER. TEMPLATE FROM BOAT
SMOOTH FINISH OVER ALL
PEEN
WELD
BOW PC. 6, 10, 11, & 15
LOCATE TO AGREE WITH PLAN VIEW
DRILL THRU AT ASSEMBLY, 2 HOLES FOR 1/4" D. PIN
SPHERICAL
PRESS FIT INTO PIECE
TEMPLATE FROM BOAT
ACCESS FLAP
HINGE PIECE SEE DETL 8A
SEE NOTE #6

DETAIL 9C
USE OF WEB STRAP BETWEEN FOR'D AND AFT CANOPY SECT'S.
SCALE 1"=1'-0"
NOTE: CANOPY NOT SHOWN

DETAIL 8D
SOCKET
SCALE 6"=1'-0"

SOCKET ASSEMBLY
SCALE 6"=1'-0"

DETAIL 8E
SCALE 12"=1'-0"

DETAIL 9B
SCALE 12"=1'-0"

DETAIL 9A
SCALE 12"=1'-0"

DETAIL 8C
AFT BOW HINGE ASSEMBLY
SCALE 6"=1'-0"
NOTE: FOR'D BOW HINGE ASSEMBLY SIMILIAR

DETAIL 8B
HINGE PAD
SCALE 6"=1'-0"

DETAIL 8A
HINGE PIECE
SCALE 6"=1'-0"

TYPICAL DETAIL 7A

CANOPY BOWS
SCALE 1"=1'-0"

PLAN VIEW OF CANOPY
SCALE 1"=1'-0"

STBD ELEV OF CANOPY
SCALE 1"=1'-0"

LIST OF MATERIAL - QUANTITIES FOR ONE BOAT

PC NO	NAME	QUAN.	SPEC	MATERIAL	REMARKS
1	CANOPY	1	24-C-20	#10 COTTON DUCK	FABRICATE IN 2 PIECES SEE GEN. NOTE #3
2					
3	WEB	AS REQD	JAN-W-530	COTTON WEB	TYPE II ; 5/8"
4	STRAP	AS REQD	↓	↓	TYPE II ; 1"
5	TIE	18	↓	↓	TYPE II ; 1" LENG. TO SUIT
6-15	BOW	10	MIL-T-[illegible]	ALUM, COND. T	1" I.P.S. x LENGTH TO SUIT
16	PAD	4	46-A-1	CAST ALUM.	CL.4, HT. 1
17	HINGE PIECE	4	46-A-1	CAST ALUM	CL.4, HT. 1
18	SOCKET	16	46-A-1	CAST ALUM	CL.4, HT. 1
19	HOOK	16	COMM'L	STAINLESS STEEL #304	1/4" DIA x LENGTH TO SUIT
20	STAPLE	17	QQ-A-351	ALUM. COND. A	1/4" DIA. x LENGTH TO SUIT
21	STAPLE	4	QQ-A-351	ALUM. COND. A	.156 DIA x LENGTH TO SUIT
22	PAD, CAST	16	COMM'L.	BRASS	3/8" x 1 3/8" x 2 5/8" SEE NOTE 1
23	PIN	8	46-A-0	ALUM, COND. T	1/4" DIA x 1 1/2" LONG.
24	EYE PAD	5	46-B-4	BRONZE	MERRIMAN FIG 417 SIZE 3
25	BUCKLE, 1"	6	JAN-B-[illegible]	BRASS	TYPE 1, CLASS 1, SYM. B
26	FIXED LIGHT	10	COMM'L	VINYLITE	BAKELITE CORP VT-1932 CLEAR, 01-40-PP, OR EQUAL
27	LANYARD	AS REQD	MIL-R-16950	MANILA	3/8" DIA. LENGTH TO SUIT
28	GRAB LINE	AS REQD	"	MANILA	1/2" DIA. LENGTH TO SUIT
29	SLIDE FASTENER	AS REQD	V-F-106	ALUM. ANODIZED	TYPE II, STYLE 1, CLASS B SIZE MH LENGTH TO SUIT
30					
31	FASTENER	AS REQD	COMM'L	BRASS CHR PLT.	LIFT THE DOT 3089C & A
32	↓	↓	↓	" , CHR PLT.	↓ 3087 & 3088A
33				" , CHR. PLT.	3085D & 3089B
34	RING	8	QQ-A-351	ALUM, COND. A	.156" DIA x 3/4" I.D.
35	CHAIN	4	42-C-19	BRASS	TYPE B, CL 1 ABT 6" LONG
36	TOGGLE PIN, COMPLETE	4	COMM'L.	GALV.-BRASS TOGGLE	1/4" DIA. x 1 3/4" LONG
37	MACH. SCREW, FL. HD.	32	COMM'L	STAINLESS STEEL #304	1/4" 20 NC2 x 2 1/4" LONG
38	MACH SCREW, FL. HD	16			3/8" - 16 NC 2 x 2 1/4" LONG
39	HEX. NUT	32			1/4" 20 NC2 FOR PC NO 37
40	HEX. NUT	16			3/8" 16 NC2 FOR PC NO 38
41	WASHER	32			FOR 1/4" DIA.
42	WASHER	16			FOR 3/8" DIA.
43	WOOD SCREW, FL. HD	64			NO 14 x 1 1/4" LONG
44	WOOD SCREW, FL. HD.	64	COMM'L	BRONZE	NO 12 x 1 1/4" LONG
45	WOOD SCREW, FL. HD.	12	COMM'L	BRONZE	NO 18 x 2" LONG.

REVISIONS

REV.	ZONE	REVISIONS	DATE	APP'D
1		CHANGED SLIDE FASTNER FROM BRASS TO ALUM	4/7/53	[illegible]

GENERAL NOTES

1. STOW CANOPY BOWS, NOS 6-15, ON TRANSOM SEAT. TWELVE (12) PADEYE FITTINGS OF BRASS (PCS 22 AND 44) ARE PROVIDED FOR SECURING BOWS. LOCATE FITTINGS TO SUIT STOWAGE.
2. IN GENERAL ALL STICHING SHALL FOLLOW STANDARD SHOP PRACTICE. WHERE SELVAGE OF CANVAS IS USED SEAMS MAY BE TYPE LSa-2, OTHERWISE LSc-2. EDGE STITCHING SHALL BE TYPE EFb-2, ALL IN ACCORDANCE WITH FED. SPEC. DDD-S-751
3. MATERIAL FOR CANOPY AND ALL FLAPS SHALL BE NO. 10, UNBLEACHED CANVAS TREATED WITH WHITE FIRE CHIEF X-DRI, WATER AND WEATHER RESISTANT TREATMENT AS MANUFACTURED BY WM. E. HOOPER & SONS CO., PHILA. 7, PA., OR EQUAL.
4. WORK IS TO BE TEMPLATED FROM BOAT WHERE NECESSARY.
5. BOWS 7 TO 14 INCL TO BE INSTALLED NORMAL TO SHEER.
6. IN CASE "MERRIMAN" FIG. 416 IS USED (PC. 24), DOUBLE FASTENINGS (PC 45) TO 20

REFERENCES

NO.	TITLE	BUREAU OF SHIPS PLAN NO.
1	CONSTRUCTION PLAN & SECTIONS	58228(3) 40 1390569

1390569

PLAN NO.
362-0200-4

JOHN TRUMPY & SONS, INC.
ANNAPOLIS, MD.
2-2-53

40' UTILITY BOAT
CANOPY ARRANGEMENT
& DETAILS

EXAMINED
J. Trumpy
DRAWN W.R.S.
APPROVED Charles J. Co

58228(3) 40 1390569 1

PC. NO.	NAME	QUAN.	SPEC.	MATERIAL	REMARKS
1	LEAD LINING 4#	2	47-L-1	SHEET LEAD	1/16 THK. x 26" x 28"
2	STIFFENER	2	47-A-12	ALUM.	2" x 2" x 1/8" x 102 3/4"
3	STIFFENER	2			" x " x " x 88 3/4"
4	BRACE	4			1 1/2 x 1 1/2" x 1/8" x 25 1/2"
5	BRACE	4			" x " x " x 17 7/16"
6	CAP	8	46-A-1		CAST ALUM.
7	FLOOR FLANGE	8	46-A-12		DET. 5B
8	FLANGE	8	47-A-11		.156 x 1 11/32" D x 4" OD
9	BENCH LEG	8	MIL-T-855	ALUM. COND. T	1" P.S. x 23 3/4" LG.
10	SEAT ANGLE SIDE PLATE	20	47-A-12	ALUM.	1/8" x 1 7/8" FL. BAR
11	CHAIN	9'-0"	42-C-19	BRASS	CUT TO SUIT
12	RING	16	MIL-B-895	BRASS	1/8" WIRE DIA. x 3/4" I.D.
13	PAD	8	47-A-12	ALUM.	.093" x 1" x 1 1/2"
14	STAPLE	8	QQ-A-351	ALUM.	3/16" DIA. WIRE
15	WOOD SCREW FL. HD.	16	MIL-S-971	GALV. STEEL	#10 x 3/4" LG.
16	TOGGLE PIN	8	MIL-B-857	GALV. IRON	3/8" DIA. x 2" LG.
17	BOLT HEX HD.	8	" " "	GALV. STEEL	1/2" 13NC2 x 2 1/2" LG.
18	NUT HEX	8	" " "	GALV. STEEL	1/2" 13NC2 FOR PC. 17
19	WASHER	16	47-A-12	ALUM.	FOR 1/2" DIA x .091 FOR PC 17
20	WASHER	8	MIL-W-1165	NICKEL COPPER	FOR 1/2" DIA (PC17)
21	WOOD SCREW FL. HD.	68	MIL-S-97	GALV. STEEL	#12 x 1 1/2" LG.
22	MACH. SCREW FL. HD.	32	MIL-S-933		#12-24NC2 x 1 1/4" LG.
23	NUT HEX	72	MIL-B-857		#12-24NC2 FOR PC. 22 & 27
24	WASHER	64	MIL-W-1165		FOR #12 SCREW PC. 22
25	FIXED PIN	8	46-A-10	ALUM. COND. T	3/8" DIA. x 1 9/16" LG.
26	CARRIAGE BOLT & NUT	32	MIL-B-857	GALV. STEEL	5/16" DIA x 5 1/2" LG.
27	MACH. SCREW FL. HD.	40	MIL-S-933	GALV. STEEL	#12NC2 x 7/8" LG.
28 ⚠	HATCH BINDING	17	COMM'L.	BRASS	.078" x 5/8"
29	FLUSH RING	3		BRASS	1 1/8" x 1 1/2 BACK PLATE
30	FLUSH HATCH LIFTS	4	COMM'L	BRASS POL.	COL. BRZ. #119581-22
31	PLATE	6	COMM'L	BRASS	.156 x 1 1/2" x 2"
32	INSULATION	AS REQ'D	COMM'L	CELOTEX 3/4" THK.	SEE GEN'L NOTE 1
33	CEMENT	AS REQ'D	52-C-23	—	TYPE A
34	BUTTON ON PLATE	6	COMM'L	EMERY FIN. BRZ.	GETTY CO. # 3800
35	WOOD SCREW FL. HD.	6	MIL-S-971	GALV. STEEL	#14 x 1 1/2" LG.
36	" " " "	18	" " "	GALV. STEEL	#14 x 2" LG.
37	SOCKET	4	47-A-11	ALUM. 1/2 HARD	.250" x 3"
38	BRACKET	4	47-A-11	ALUM. 1/2 HARD	.250" x 2" x 5"
39	DEXOLIUM WITH 1/8" FOAM RUBBER BACK		COMM'L	—	DEXOLIUM CORP. MD-3-A4 NORWALK, CONN.
40	WOOD SCREW FL. HD.	68	MIL-B-857	COPPER SILICON	#6 x 5/8" LG.
41	" " " "	21	MIL-S-971	GALV. STEEL	#8 x 7/8" LG.
42	" " " "	24	" " "		#14 x 1 1/2" LG.
43	LAG SCREW	8	FF-B-561		3/8" x 3 1/2" LG.
44	LAG SCREW	8	FF-B-561		3/8" x 4" LG.
45	WOOD SCREW FL. HD.	18	MIL-S-971		#14 x 1 1/4" LG.
46	" " RD. HD.	8	" " "		#6 x 1/2" LG.
47	LABEL PLATE	1	MIL-B-895	BRASS	.05" x 3 1/8" x LENTH TO SUIT
48	HOLDER	1	47-A-12	ALUM.	.064" x 13 1/2" x 7 1/2"
49	WASHER	16	MIL-W-1165	GALV. STEEL	FOR 3/8" DIA. PC. 43 & 44
50	BOAT PLUG	3	COMM'L	BRZ. CAST	WILCOX CRITT. FIG. 872 WITH CHAIN
51					
52 ⚠	CARRIAGE BOLT AND NUT	10	MIL-B-857	GALV. STEEL	5/16" DIA. x 6" LG.
53					
54					
55					

REV	ZONE	DESCRIPTION	DATE	APP'D
1	6D 8A 8C 11D 9-A	OAK NOSING ADDED TO BRIDGE DECK AND SEATS EXPOSED PLYWOOD EDGES. DRIP GROOVES ADDED ON BRIDGE DECK AND SEATS OVERHANG. HATCH BINDING CHANGED FROM 0.078" x 1/2" TO 0.078" x 5/8". PIECE NO. 40 CHANGED FROM NO. 8 x 3/4" LG. TO NO. 6 x 5/8" LG. PC. NO. 42 IN BILL OF MAT. CHANGED FROM 1 1/4" LG. TO 1 1/2" LG. VENTILATION LOUVERS ADDED TO ENGINE CASING. 3 1/2" x 4" RIDGE BAR CHANGED TO 3 1/4" x 5 3/8". ENGINE CASING RIDGE BAR CHANGED FROM 3 1/2" x 4" TO PROVIDE GUTTERWAY FOR DRAINAGE TO SIDE OF CASING. DETAIL 9.C ALSO REVISED TO PROVIDE GUTTERWAY AT COVER JOINT. ENGINE CASING TOP PLYWOOD CHANGED FROM 5/8" TO 1/2", AND TOP COVER FRAMING CHANGED FROM 1 1/4" x 1 1/4" AND 1" x 2" TO AS SHOWN. PIECE NO. 34 ON BILL OF MAT. CHANGED FROM SASHLOCK (GETTY CO. #5000) TO BUTTON-ON PLATE. PIECE NUMBERS 51 AND 52 ADDED TO SCHEDULE OF MATERIAL. DIMENSIONS OF PIECE NO. 37 CHANGED TO PROVIDE CLEARANCE FOR PIECE NO. 30. CASING STUD WIDTH CHANGED TO SUIT. BRIDGE DECK PLYWOOD CHANGED FROM 5/8" TO 1/2".	7/30/54	

GENERAL NOTES

1. INSULATION TO BE SECURED TO ENTIRE UNDERSIDE OF BRIDGE DECK AND PORTABLE COVERS BETWEEN BHDS 18 AND 26, TO INSIDE OF PORTABLE SIDE PANELS, TO THE ENGINE SIDE OF BHDS 18 AND 26, FROM DECK TO BRIDGE LEVEL, AND TO TOP OF SEAT BETWEEN FRS 26 AND 26.
2. INSTALL ONE DRAIN PLUG IMMEDIATELY AFT OF BHD 26, PORT SIDE, AND TWO DRAIN PLUGS AT FR 12, P/S.
3. THE DEXOLIUM, PIECE NO. 39, IS FOR COVERING THE BRIDGE DECK ONLY. IT IS TO BE LAID IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

REFERENCES

NO.	TITLE	BUREAU OF SHIPS PLAN NO.
1	CONSTRUCTION PLAN & SECTIONS	S8228(3)40/1390564
2		
3	MACHINERY ARRANGEMENT	S8228(3)40/1390566
4		
5		
6		

PLAN NO.
362-0200-2

JOHN TRUMPY & SONS, INC.
ANNAPOLIS, MD.
2-2-53

40' UTILITY BOAT
SEATS, BRIDGE DECK DETAIL

EXAMINED

OFFICIAL	SIGNATURE
NAVAL ARCHITECT	John Trumpy
REVIEWED	
TRACED	
DRAWN	J.B.

APPROVED Charles M. Cox
TITLE
DATE 7/24/52
FOR SUPERVISOR OF SHIPBLDG

BUREAU OF SHIPS NO.
S8228(3) 40 1390572 1
SCALE AS INDICATED
SHEET OF