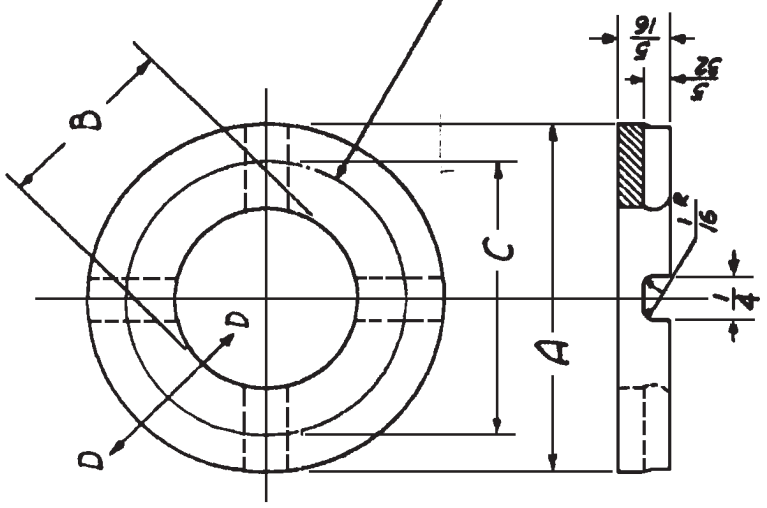


C.D. 1/2/35.

PART NUMBER	A	B	C	WEIGHT IN LBS.
213090-1	1 3/4	2 5/32	1 5/16	0.7
213090-2	1 29/32	1 5/16	1 15/32	0.7
213090-3	2 1/16	1 3/32	1 5/8	0.7
213090-4	2 1/4	1 9/32	1 13/16	0.7
213090-5	2 1/2	1 17/32	2 1/16	1.1
213090-6	2 7/8	1 29/32	2 3/16	1.1
213090-7	3 1/4	2 1/4	2 3/4	1.35



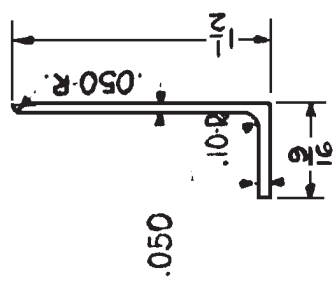
NOTE:-
LOCATE DRILL OR TAP HOLES
TO CLEAR DRAIN GROOVES



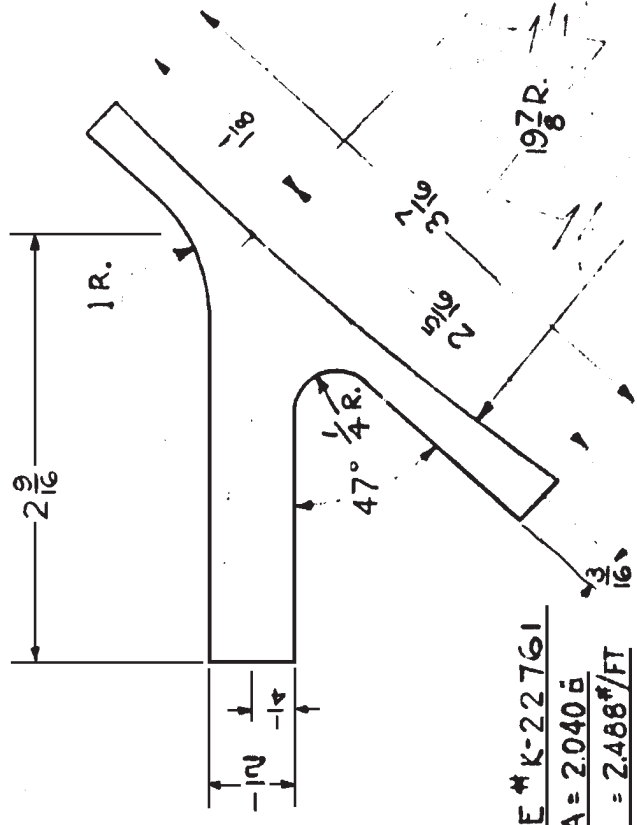
SECTION D-D

NO. REQ.	ASSEM.	-1 to -7	RING-TAPPING	NAME	CASTING (SEE TABLE)	AL. ALLOY	26A-1	SA-8	S.F.-9
					STOCK	MATERIAL SPEC.	HT. T.	F/SQ. IN.	FINISH EST. WT. ACT. WT.
DESIGNED FOR			DIMENSIONS ARE IN INCHES, LIMITS ± 1/64 DECIMALS ± .010 ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.						
HEAT TREAT WAS SR-63			FINISH WAS PF-1						
PART-10-7 INCL. W.P.			PART-10-7 INCL. W.P.						
2 10-9-36			10-9-36						
3-29-35			3-29-35						
ALTERNATIONS			ALTERNATIONS						
DRAWN TRACED			Adams 11-9-34						
CHECKED			WAYS 11-12-34						
SUPERVISOR			12-21-34						
STRUCTURE									
CHIEF DRAFT.			12/1/34						
PROJ. ENG.									
ASST. CHY. ENG.									
APPROVAL			12/27						
SUPERSEDED BY			SUPERSEDED						
SCALE			NONE						
SER. DRAWING NO.			34849						
NAVAL AIRCRAFT FACTORY			PHILADELPHIA						
213090			213090						

213145



ALCOA DIE # K-22760
 EST. AREA = .102 \square
 EST. WT. = .122 #/FI



ALCOA DIE # K-22761
 EST. AREA = 2.040 \square
 EST. WT. = 2.468 #/FI

NOTE: TOLERANCES FOR DIMENSIONS TO BE IN ACCORDANCE WITH SPEC. 46A9

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
		213145-2	EXTRUSION		ALUM. ALLOY 46A9	SR-53	57,000				
		213145-1	EXTRUSION		ALUM. ALLOY 46A9	SR-53	57,000				

DESIGNED FOR 13N-1X13N16 13N-3

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
		213145-2	EXTRUSION		ALUM. ALLOY 46A9	SR-53	57,000				
		213145-1	EXTRUSION		ALUM. ALLOY 46A9	SR-53	57,000				

RE DRAWN - 1 EXT. DIE # 22760 WAS 304K (MOD) ADDED - 2.1716" WAS 2.04" ANGLE EXT (MOD) 1.04" ALTERNATIONS

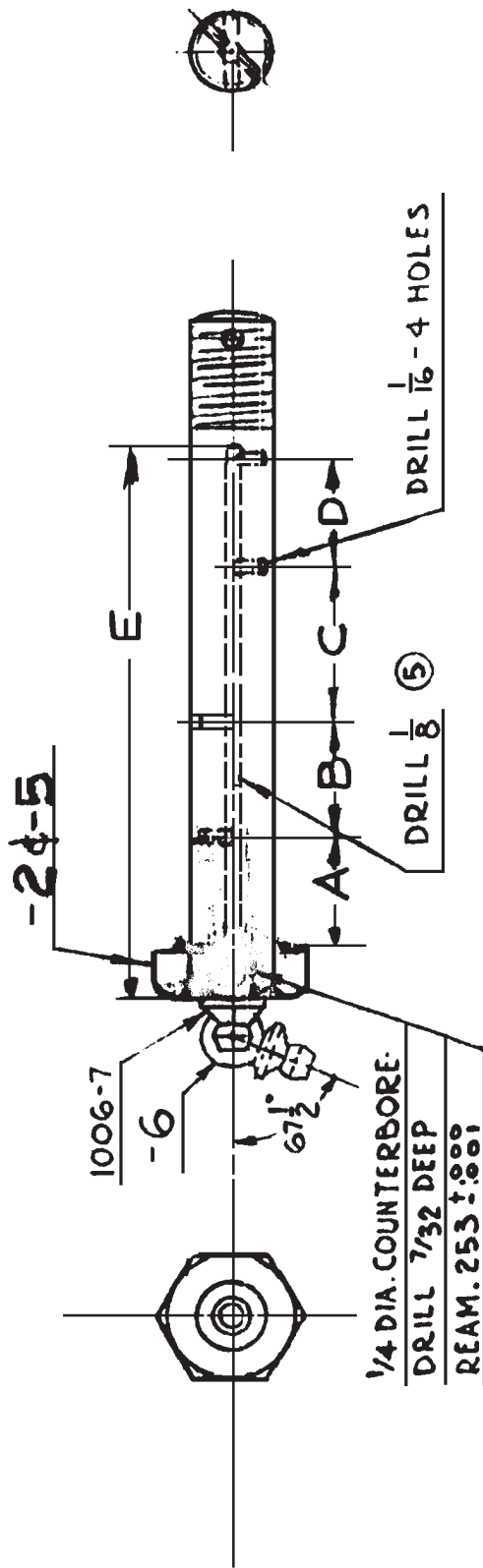
DESIGNED FOR	M.D. YOUNG	9-18-39
DRAWN TRACED	<i>Young</i>	9-18-39
CHECKED	<i>Caplan</i>	9/23/39
SUPERVISOR	<i>Beuller</i>	
STRUCTURE	<i>Phila</i>	7/26/39
CHIEF DRAFT.	<i>Hrisalona</i>	9/26/39
PROJ. ENG.	<i>Bonnelly</i>	6/5/40
ASST. CH'F. ENG.		
APPROVAL		

SECTIONS - EXTRUDED
 MAIN FLOAT

SUPERSEDED BY —
 SCALE —
 FULL SIZE
 SUPERSEDED 213145 ALIA
213145
 REF. DRAWING NO.
 NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

5/9/35

No	A	B	C	D	E
-1	1/16	1/16	1/16	3/32	1/16
-4	3/16	3/16	3/16	2/32	2/32



1/4 DIA. COUNTERBORE.
 DRILL 7/32 DEEP
 REAM. 253 ±.001

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	V.T. FINISH	EST. WT. ACT. WT.
1	213160-4	1006-7	FITTING (LUB.)	STD.				
1	213160-1	213160-6	FITTING - (LUB.)	ALEMITE #1406 67% OR EQUIV.				.05
1	213160-4	-5	BOLT	AN 8-34				.231
1	213160-4	-4	BOLT ASSY.	—				.281
1	213160-4	-3	FITTING (LUB.)	(ALEMITE) #1406 OR EQUIV.				.05
1	213160-1	-2	BOLT	AN 8-37				.252
2	213160-1	-1	BOLT ASSY.	—				.300

DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ±		DECIMALS ±.010. ANGLES ±1/2°. UNLESS OTHERWISE NOTED.	
NO. 3	NON-1	GAUGMAN	B-235		
1	10-4-40	Checked	11/26/35		
1	10-4-40	Supervisor	11/26/35		
1	10-4-40	Structure	11/26/35		
1	10-4-40	Chief Draft.	11/26/35		
1	10-4-40	Proj. Eng.	11/26/35		
1	10-4-40	Asst. Chf. Eng.	11/26/35		
1	10-4-40	Approval	11/26/35		
ALTERNATIONS					
1	10-4-40				
2	10-30-35				
3	12-3-35				
4	1-3-36				
5	1-25-37				
6	11-24-37				
7	10-4-40				
8	1006-7 REPLACES -8				
9	ASSEM. CHGD FROM 66635-1 TO 66681-1				
10	IN B/M FOR -1 & -4				
11	1-3-36				
12	1-3-36				
13	1-3-36				
14	1-3-36				
15	1-3-36				
16	1-3-36				
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97	1-3-36				
98	1-3-36				
99	1-3-36				
100	1-3-36				

BOLTS - ATTACHMENT - WHEEL
TYPE LDG. GEAR TO FUSE. TERMINAL

SUPERSEDED BY
 SCALE
 FULL SIZE -
 NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

213160

10/21/34

MODEL N3N- FLIGHT CHECK-OFF LIST		MODEL N3N- FLIGHT CHECK-OFF LIST		MODEL N3N- FLIGHT CHECK-OFF LIST		MODEL N3N- FLIGHT CHECK-OFF LIST	
TAKE-OFF	LANDING	TAKE-OFF	LANDING	TAKE-OFF	LANDING	TAKE-OFF	LANDING
1 Set Elev. Tab	1 Set Elev. Tab	1 Set Elev. Tab	1 Set Elev. Tab	1 Set Elev. Tab	1 Set Elev. Tab	1 Set Elev. Tab	1 Set Elev. Tab
2 Set Rich	2 Set Rich	2 Set Rich	2 Set Rich	2 Set Rich	2 Set Rich	2 Set Rich	2 Set Rich
3 Fuel	3 Fuel	3 Fuel	3 Fuel	3 Fuel	3 Fuel	3 Fuel	3 Fuel
4 Lock Tailwheel	4 Lock Tailwheel	4 Lock Tailwheel	4 Lock Tailwheel	4 Lock Tailwheel	4 Lock Tailwheel	4 Lock Tailwheel	4 Lock Tailwheel
1 Lock Tailwheel		1 Lock Tailwheel		1 Lock Tailwheel		1 Lock Tailwheel	
WHEN REAR COCKPIT IS NOT OCCUPIED - CARRY 125# ON REAR SEAT.		WHEN REAR COCKPIT IS NOT OCCUPIED - CARRY 125# ON REAR SEAT.		WHEN REAR COCKPIT IS NOT OCCUPIED - CARRY 125# ON REAR SEAT.		WHEN REAR COCKPIT IS NOT OCCUPIED - CARRY 125# ON REAR SEAT.	
CUTTING EDGE		CUTTING EDGE		CUTTING EDGE		CUTTING EDGE	

CHECK-OFF LIST - PART #66698-32 (N3N-1) 67614-10 (N3N-3)
67614-12 67614-10 CHECK OFF LIST

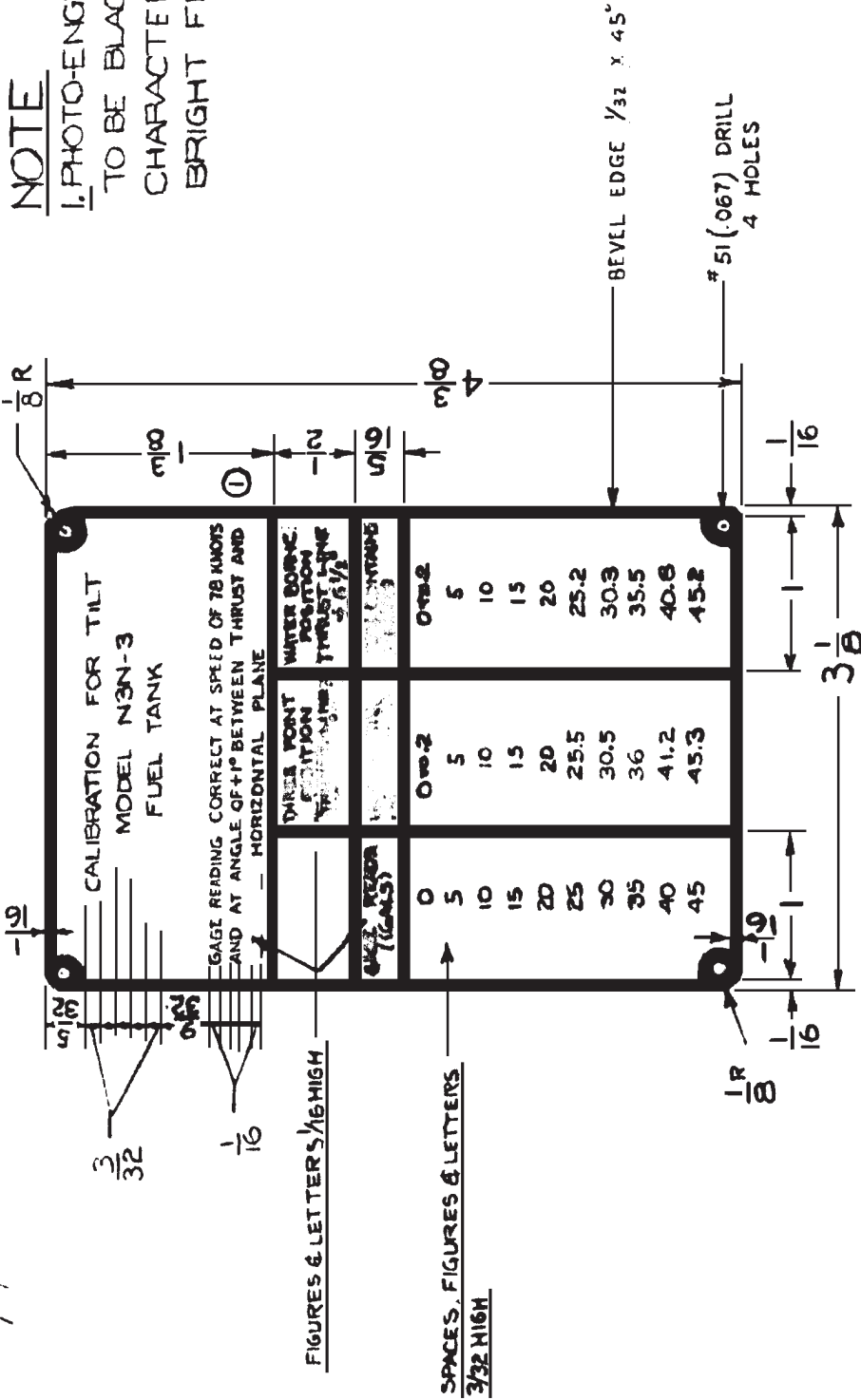
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
N3N-3	66698-1	66698-32	CHECK-OFF LIST								
DIMENSIONS ARE IN INCHES. LIMITS ±											
DESIGNED FOR											
ALTERNATIONS											
REVISIONS											
RETRACED											
REVISED											
RELEASED FOR											
N3N-3											
8-17-39											
2-11-39											
SUPERSEDED BY											
SCALES											
REF. DRAWING NO.											
SUPERSEDES 213796 10/30/34											
213796											
NAVAL AIRCRAFT FACTORY PHILADELPHIA											

MAKE BLACK & WHITE PRINTS.

214175

NOTE

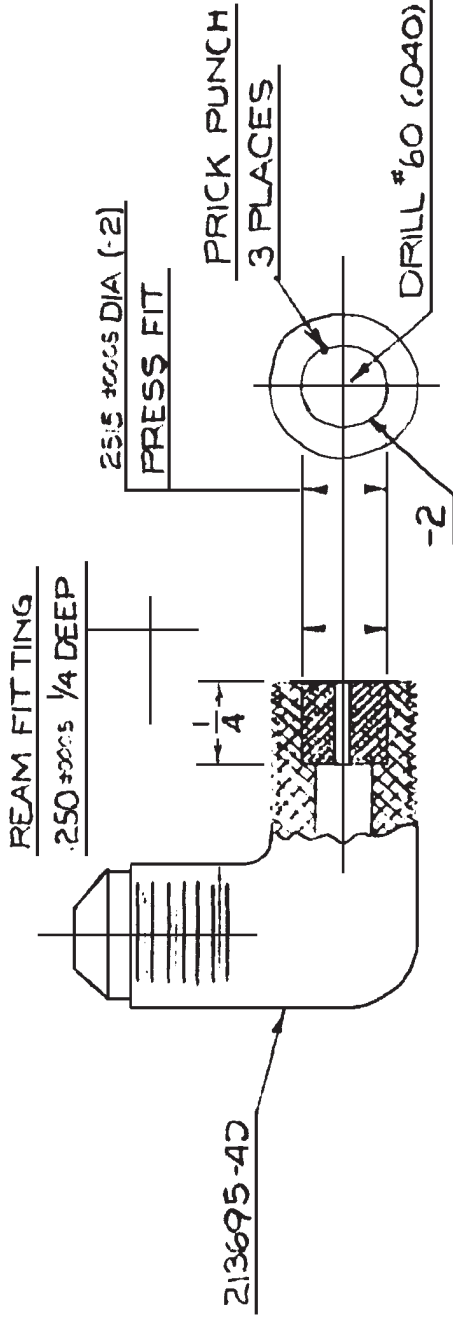
1. PHOTO-ENGRAVED, BACKGROUND TO BE BLACK ENAMELED, CHARACTERS RAISED WITH BRIGHT FINISH.



2	68122-1	214175 -1	PLATE	064 x 3 1/8 x 4 3/8	ALUMAL. 47A11 1/2 M	HT. T. 1/16	U.T.S. FINISH	SR19	.1
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S. FINISH	EST. WT. ACT. WT.
N3N-3		← DESIGNED FOR	DIMENSIONS ARE IN INCHES, LIMITS ± 1/64 DECIMALS ± .010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.						
		DRAWN	HOOVER	11-13-39	PLATE, CALIBRATION, FUEL TANK				
		CHECKED	ROSS	11-14-39	HYDROSTATIC TYPE GAGE				
		SUPERVISOR	ROSS	11-15-39	SUPERSEDED BY				
		STRUCTURE			SCALE				
		CHIEF DRAFT.	W. H. B.	11/16/39	FULL SIZE				
		PROJ. ENGR.	W. H. B.	11/16/39	REF. DRAWING NO.				
		ASST. CRT. ENGR.	W. H. B.	11/21/39	214175				
		APPROVAL	W. H. B.		NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA				

Sub: 11/24/39

214285

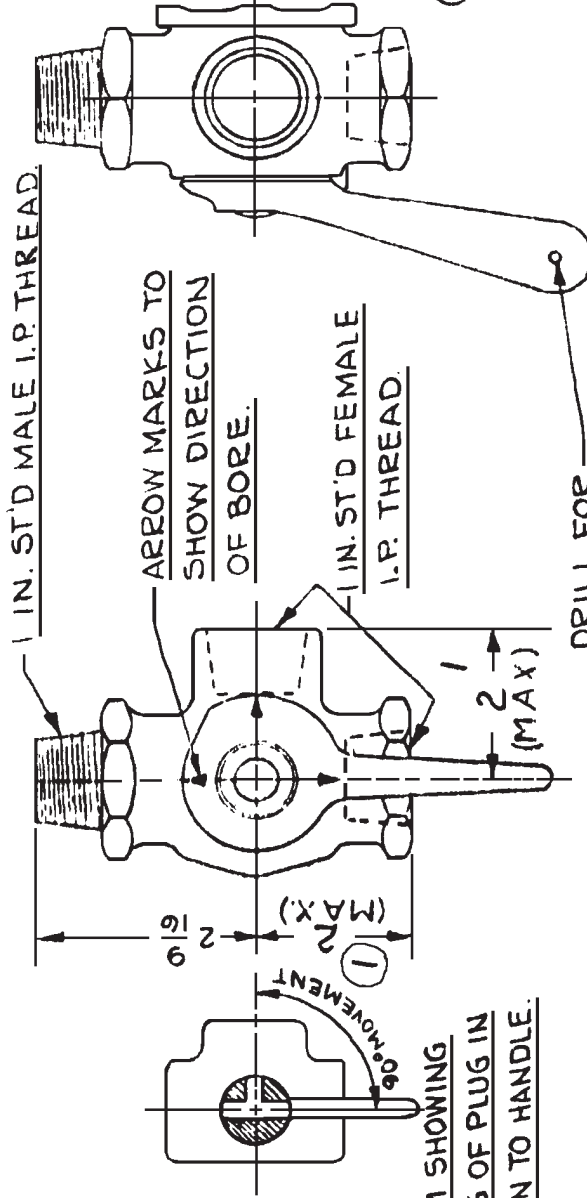


1	-1	213695-4D	ELBOW																			
1	214285-1	-2	PLUG	5/16 DIA x 1/4	AL ALLOY	46.7																
1	67125-30	214285-1	FITTING ASSY																	.02		
NO. REQ.		ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.										
N3N-3		←-DESIGNED FOR			DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMAL S ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.																	
		DRAWN			FITTING																	
		TRACED			FUEL & OIL PRESS. GAGE ASSEMBLY																	
		CHECKED			SUPERSEDED BY																	
		SUPERVISOR			SCALE																	
		STRUCTURE			TWICE SIZE																	
		CHIEF DRAFT.			REF. DRAWING NO.																	
		PROJ. ENG.			214285																	
		ASST. CH.F. ENG.			NAVAL AIRCRAFT FACTORY PHILADELPHIA																	
		APPROVAL			NAVY YARD																	
					8/5/34																	

214286

NOTES

- ① VALVE BODY TO BE FORGED AL. ALL.
- ② DIMENSIONS SHOWN ARE APPR.
- ③ VALVE TO BE FURNISHED WITH STOPS.
- ④ PIPE THREADS TO BE IN ACCORDANCE WITH SPEC. M-262.
- ⑤ ALL PASSAGES TO HAVE 3/4 IN. MIN. DIA. ③
- ⑥ SERVICE: 75 LBS. AIR, OXYGEN AND GAS; 100 LBS. GASOLINE (OR OIL) AND WATER. NORMAL ATMOSPHERIC TEMPERATURES ONLY
- ⑦ VALVE HANDLE TO BE CAST AL. ALLOY



DRILL FOR
LOCK WIRE

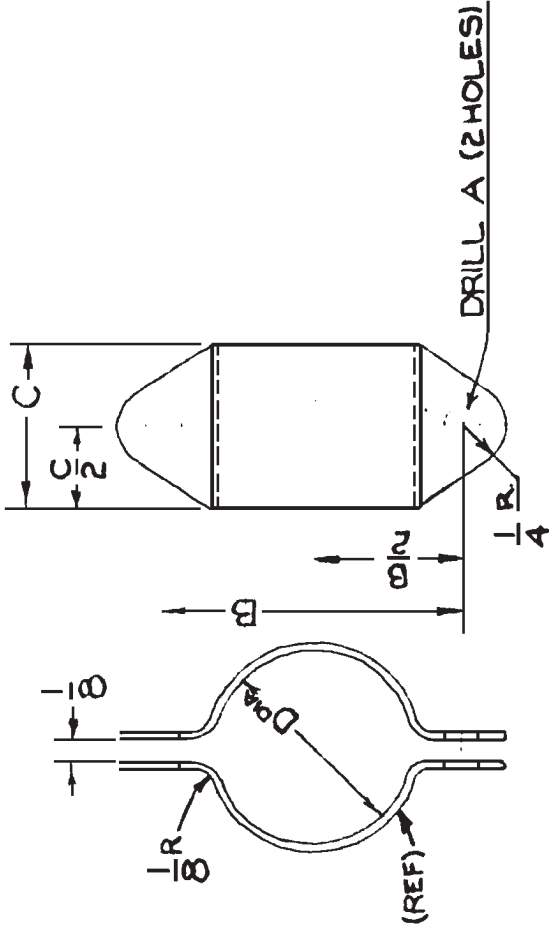
NO. REQ.	ASSEM.	NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	ASS'Y	ASS'Y	SEE NOTE #1	COMM.	SP-19	I.3
⑥	1	215253-2	—	214286-1	VALVE	ASS'Y	ASS'Y	ASS'Y	SEE NOTE #1	COMM.	SP-19	I.3
⑥	1	215253-1	—	67128-30214286-1	VALVE	ASS'Y	ASS'Y	ASS'Y	SEE NOTE #1	COMM.	SP-19	I.3
NO. REQ.	ASSEM.	NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	ASS'Y	ASS'Y	MATERIAL SPEC.	HT. T.	U.T.S.	FINISH
											#/SQ. IN.	EST. WT. ACT. WT.
<p>← DESIGNED FOR DIMENSIONS ARE IN INCHES, LIMITS ± DECIMALS ± .010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.</p>												
<p>VALVE</p>												
<p>3 WAY - 2 FEMALE I.P. THREADS - 1 MALE I.P. TH'D</p>												
<p>NO SCALE</p>												
<p>SUPERSEDED BY</p>												
<p>SCALE</p>												
<p>REF. DRAWING NO.</p>												
<p>214286</p>												
<p>SUPERSEDES</p>												
<p>NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA</p>												

APPROVAL	ASST. CH'F. ENG.	PROJ. ENG.	CHIEF DRAFT.	STRUCTURE	SUPERVISOR	CHECKED	DRAWN TRACED
Moore	W. H. 8-17-39	W. H. 8-17-39	W. H. 8-17-39	W. H. 8-17-39	W. H. 8-17-39	W. H. 8-17-39	W. H. 8-17-39

ALTERATIONS	NO.	DATE	BY	REASON
①	2-5-40	8-17-39	W. H.	WAS 1 IN.
②	6-3-40	8-17-39	W. H.	WAS 1 IN.
③	3-27-41	8-17-39	W. H.	WAS 1 IN.
④	4-24-42	8-17-39	W. H.	WAS 1 IN.
⑤	4-24-42	8-17-39	W. H.	WAS 1 IN.
⑥	9-2-42	8-17-39	W. H.	WAS 1 IN.

214288

A	B	C	D
-1	10(1935)	1 5/8	1
-2	10(1935)	1 3/4	1 1/8
-3	10(1935)	1 1/4	5/8
-4	10(1935)	1 1/8	1/2



QTY	REF	NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U. T. S.	FINISH	EST. WT.	ACT. WT.
1		1	67128-35	-4	CLAMP (HALF)	.049	STEEL	47514					
1		1	68122-24	-3									
1		1	68122-24	-2									
1		1	68122-24	-1									
2		2	67128-18	-2									
1		1	67128-18	-1									
1		1	68122-24	-2									
2		2	68122-24	-1									
2		2	68122-24	-2									
2		2	68122-24	-1									

← DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.

DRAWN TRACED	MOORE	8-17-39
CHECKED	ROSS	8-17-39
SUPERVISOR	PAVING	8-17-39
STRUCTURE		
CHIEF DRAFT		
PROJ. ENG.		
ASST. CH'F. ENG.		
APPROVAL		

ALTERNATIONS

1	10-18-39	MOORE
2	10-23-39	MOORE

1 NEED ON 68122-4249
2 ADD'D ASS'YS 68122-18
3 4-6-39

NAVY YARD PHILADELPHIA

214289

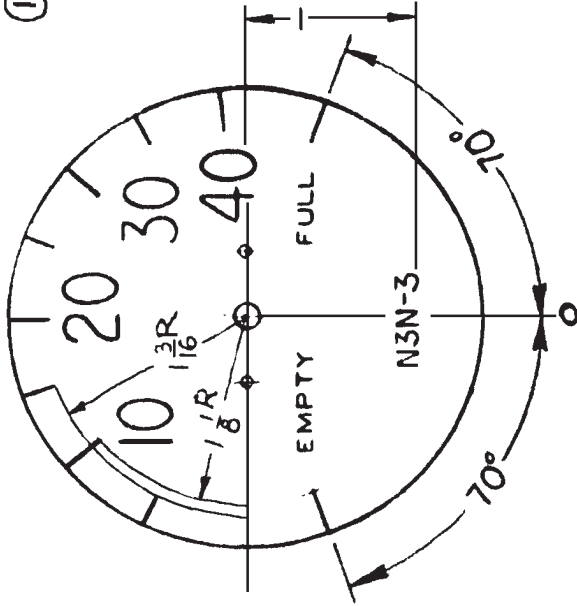
DIAL MARKING CONVERSION TABLE (FOR GASOLINE) (FOR REFERENCE ONLY)

CAPACITY (GALS.)	READING (DEGREES)	READ FOR GASOLINE (INCHES)	READ FOR WATER (INCHES)	READING FOR WATER (DEGREES)
EMPTY	70	0	0	0
5	116.5	5.39	3.88	46.5
10	140	8.10	5.83	70.0
15	160	10.42	7.50	90.0
20	179.5	12.68	9.13	109.5
25	201	15.15	10.91	131.0
30	221	17.47	12.58	151.0
35	242.5	19.97	14.38	172.5
40	264	22.46	16.17	194.0
45	290	25.46	18.33	220.0

①

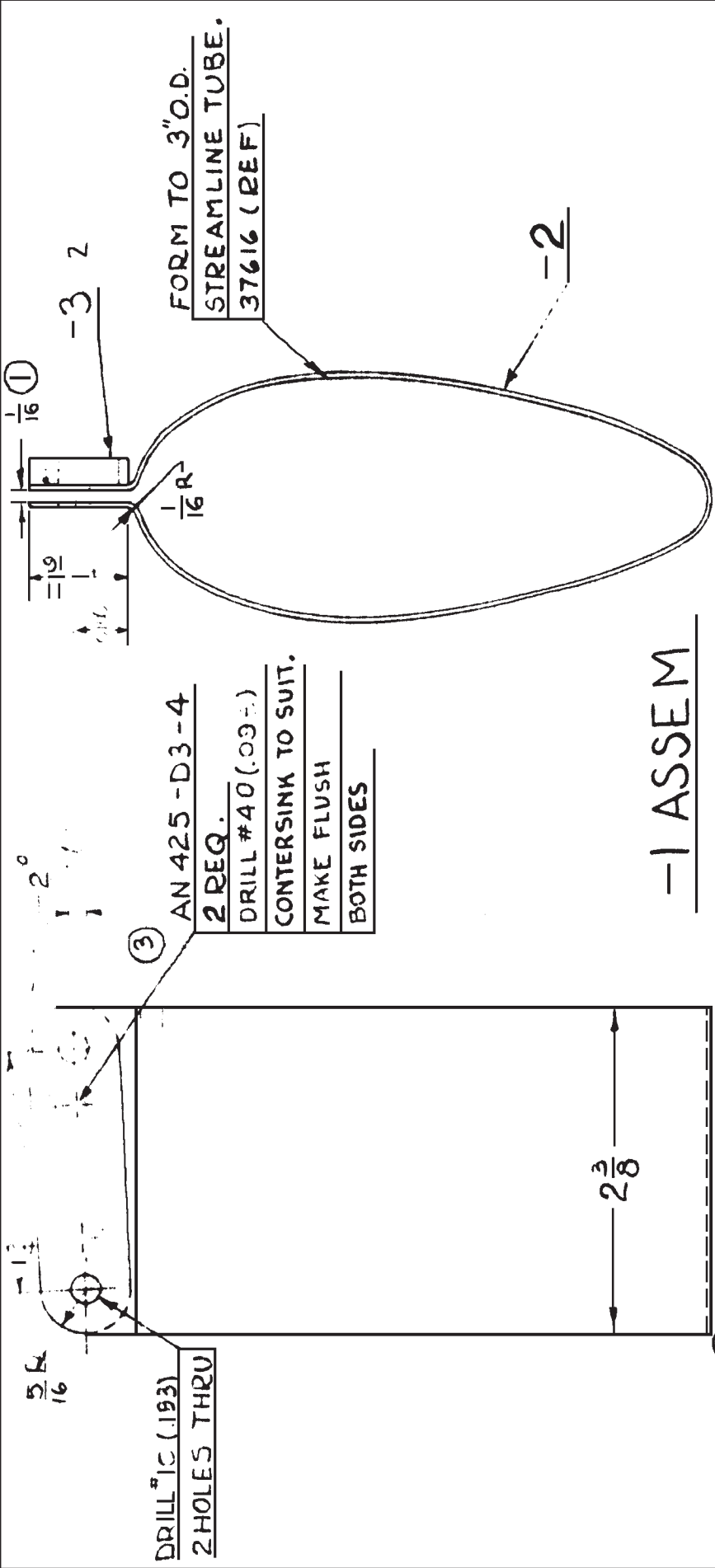
NOTES

1. THE BLANK IS FOR REFERENCE ONLY.
2. SET POINTERS TO 0.00.
3. THE POINTERS TO 0.00 TO BE USED FOR REFERENCE ONLY.
4. EMPTY TO 0.00 TO BE USED FOR REFERENCE ONLY.
5. THE POINTERS TO 0.00 TO BE USED FOR REFERENCE ONLY.
6. THE POINTERS TO 0.00 TO BE USED FOR REFERENCE ONLY.
7. LINES AT 5, 15, 25, 35, 45, & LETTERS ON EMPTY FULL & N3N-3 TO BE DULL WHITE OR NATURAL METAL FINISH.



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.																																																
N3N-3																																																											
DESIGNED FOR			DIMENSIONS ARE IN INCHES. LIMITS $\pm 1/64$ DECIMALS $\pm .010$. ANGLES $\pm 1/4^\circ$. UNLESS OTHERWISE NOTED.																																																								
ALTERNATIONS			<table border="1"> <tr> <td>REVISED NOTE</td> <td>45-G-050</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TO SCIT GAGE</td> <td>45-G-052</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>45-G-40</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>45-G-40</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>									REVISED NOTE	45-G-050											TO SCIT GAGE	45-G-052											45-G-40												45-G-40											
REVISED NOTE	45-G-050																																																										
TO SCIT GAGE	45-G-052																																																										
45-G-40																																																											
45-G-40																																																											
DRAWN			EXOVER'S 8-24-39																																																								
CHECKED			FRENCH 11-13-39																																																								
SUPERVISOR			N. J. J. 11-15-39																																																								
STRUCTURE																																																											
CHIEF DRAFT.			P. H. B. 11/15/39																																																								
PROV. ENG.			G. H. C. 11-15-39																																																								
ASST. CHIEF. ENG.			K. J. M. 11-21-39																																																								
APPROVAL																																																											
SUPERSEDED BY			SCALE																																																								
FULL SIZE			REF. DRAWING NO.																																																								
214289			SUPERSEDED BY																																																								
NAVAL AIRCRAFT FACTORY			PHILADELPHIA																																																								

214291



DRILL 1/16 (.1875)
2 HOLES THRU

AN 425-D3-4
2 REQ.
DRILL #40 (.0937)
CONTERSINK TO SUIT.
MAKE FLUSH
BOTH SIDES

FORM TO 3" O.D.
STREAMLINE TUBE.
37616 (REF)

-1 ASSEM

STANDARD
AL. ALLOY 47A-10 SR-53 62000 -
.188 x 5/8 x 2 3/8
SH. STEEL 47S-14-FH-5-10N90,000 -
Q35 x 2 3/8 x 10 7/8

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S. #/SQ. IN.	FINISH	EST. WT.	ACT. WT.
2	214291-1	AN425-D3-4	RIVET								
1	214291-1	214291-3	SPACER								
1	214291-1	214291-2	STRAP								
1	67612-1	214291-1	BRACKET ASSEM.								PF-154

DESIGNED FOR	ROSEN	B-2A39
ALTERNATIONS	Checked	8/24/39
1	Supervisor	8/24/39
2	Structure	8/24/39
3	Chief Draft.	8/24/39
4	Proj. Eng.	8/24/39
5	Asst. Cnf. Eng.	8/24/39
6	Approval	8/24/39

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S. #/SQ. IN.	FINISH	EST. WT.	ACT. WT.
1	67612-1	214291-1	BRACKET ASSEM.								

BRACKET

BANK & TURN INDICATOR - VENTURI

SUPERSEDED BY
SCALE
FULL SCALE
REF. DRAWING NO.
214291

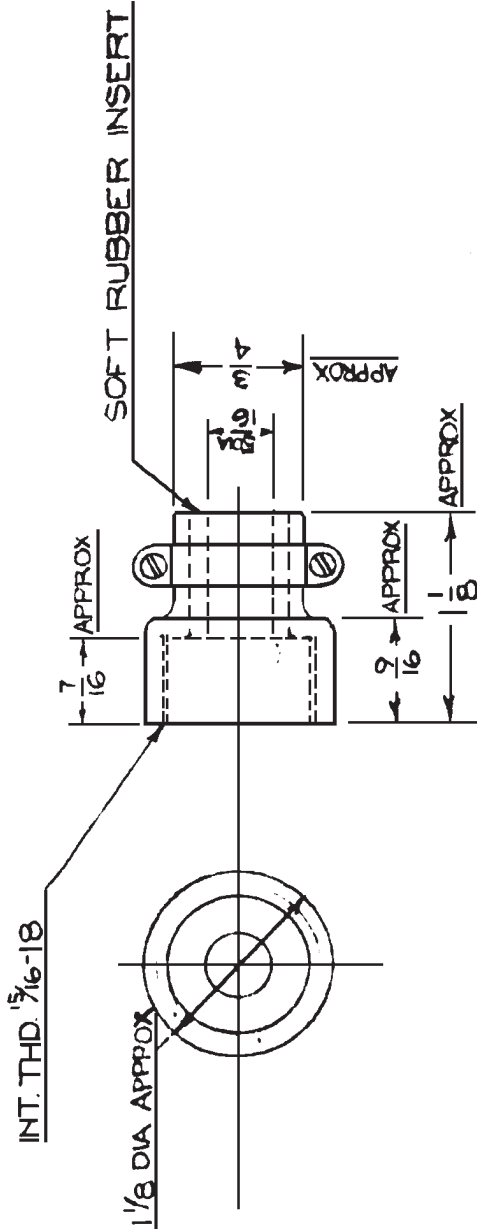
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

214319

Ed. 12/1/39

NOTES:

- 1 1. FINISH AL. ALLOY
- PARTS PF-1-40 BEFORE
- ASSEMBLY. PF-1-15
- AFTER ASSEMBLY

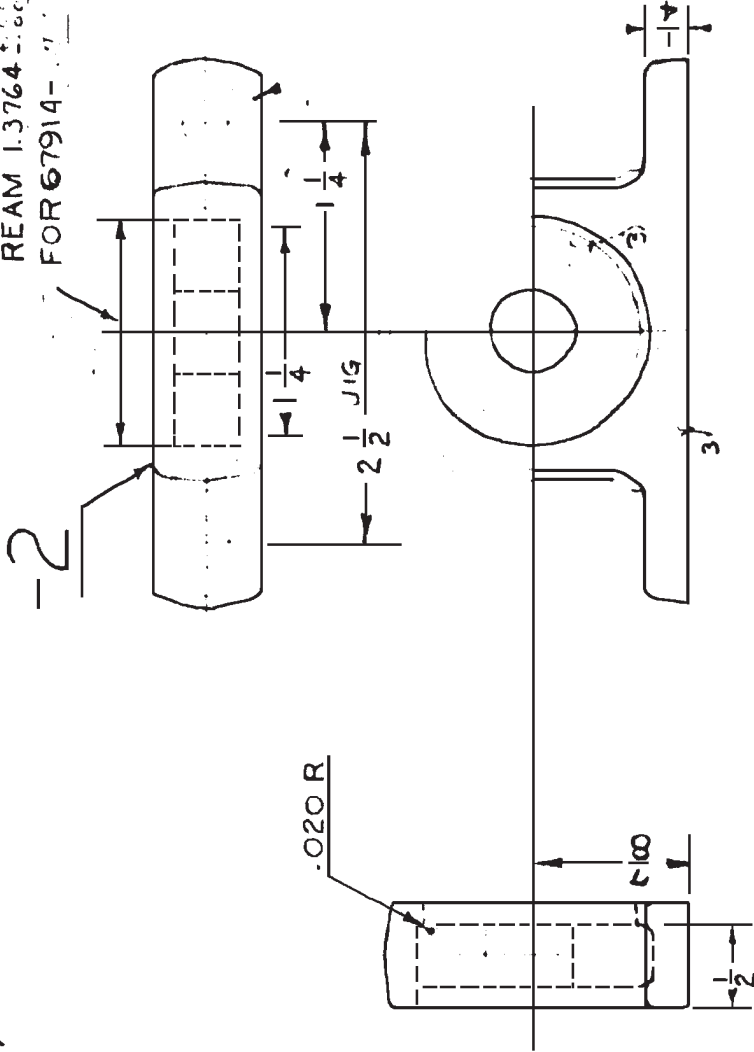
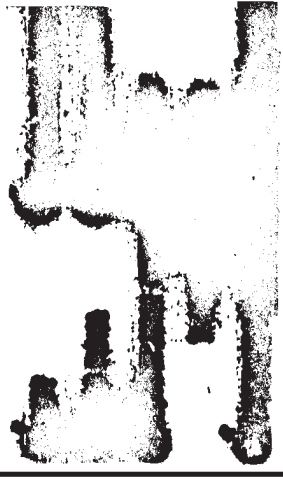


1	68122-1	214319-1	GLAND	COMM'L	AL. ALLOY	COMM'L	FINISH
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.
N3N-3							U. T. S. FINISH 1/50 IN.
DESIGNED FOR				DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.			
ALTERATIONS				GLAND			
SVD				WATER-TIGHT CLAMP			
HOOPER				SUPERSEDED BY			
12-20-39				SCALE			
ADD NOTE 1.				12" = 1'-0"			
MATERIAL WAS ZINC FINISH				REF. DRAWING NO.			
AM-827-P-91				214319			
				NAVY YARD			
				NAVAL AIRCRAFT FACTORY			
				PHILADELPHIA			
				SUPERSEDED BY			
				11-17-39			
				11-18-39			
				11-20-39			
				11/20/39			
				11-20-39			
				12/1/39			

214326

67-2 4/11/42

REAM 1.3764 ±.0008
FOR 67914 - 1/4" DIA. FIT



REAM .250 ±.0008
5/8 SPOT FACE 1/32 R
2 HOLES

214326-1 67914-167 BEARING

N-52108-1F

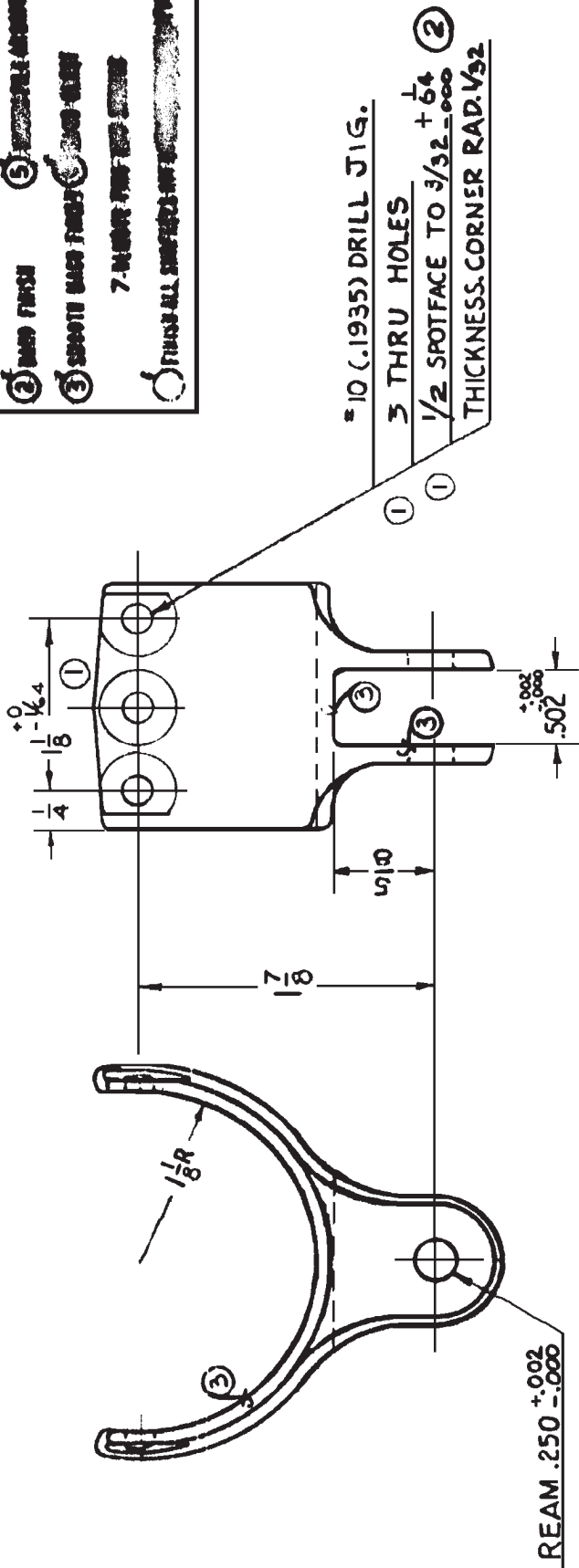
PE1-41

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U. T. S.	FINISH	EST. WT.	ACT. WT.
1	67647-7	214326-1	BEARING ASSEMBLY								
<p>← DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/4 DECIMALS ± .010. ANGLES ± 1/4°. UNLESS OTHERWISE NOTED.</p>											
N3N-3			ALTERATIONS	DRAWN	UNDER WOOD	10-27-39	BEARING — HOUSING				
			7-11-40	CHECKED	1878 Lambert	4-16-40	TORQUE TUBE — ASSEMBLY				
			VIEW CORRECTLY IN PLAN	SUPERVISOR	1878 Lambert	4-16-40	SUPERSEDED BY				
			NHOLE IN BEARING SHOWS	STRUCTURE			SCALE				
			CHIEF DRAFT.	PROJ. ENG.	Hambrook	9/18/42	FULL SIZE				
			ASST. CHY. ENG.	APPROVAL	Hambrook	9/19/42	NAVY YARD		214326 PHILADELPHIA		
					Barnaby	7-19-40	REF. DRAWING NO.				

214327

Ed. 4/15/40.

- ① PART
- ② BRASS FINISH
- ③ SMOOTH BRASS FINISH
- ④ BRASS BLANK FINISH
- ⑤ POLISHABLE ANODIZED
- 7-MINUTE PART TEST SPEC.
- FINISH ALL SURFACES WITH 1000 GRIT

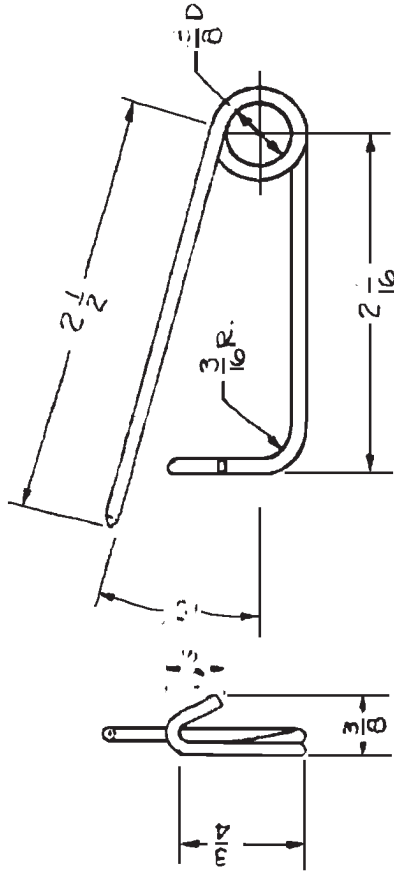


NOTE:
 CENTER HOLE FOR ATTACHING TO
 RUDDER TORQUE TUBE ADDED
 STARTING WITH AIRPLANE #4352

2	68128-2	214327-1	FITTING	N-15004-3F	STOCK	PF-41	
NO. REQ.	ASSEM.	PART NO.	NAME	MATERIAL	SPEC.	HT. T.	U.T.S. / SQ. IN.
N3N-3							FINISH EST. WT. ACT. WT.
DESIGNED FOR			DIMENSIONS ARE IN INCHES. LIMITS $\pm 1/16$ DECIMALS $\pm .010$ ANGLES $\pm 1/2^\circ$ UNLESS OTHERWISE NOTED.				
ALTERATIONS							
① 6-20-41			DRAWN TRACED D'APUZZO 3-25-40				
② 12-31-41			CHECKED [Signature] 3-29-40				
③ 1-15-40			SUPERVISOR [Signature] 4-4-40				
			STRUCTURE [Signature] 4-8-40				
			CHIEF DRAFT. [Signature] 4-11-40				
			PROJ. ENG. [Signature] 4-12-40				
			ASST. CH'F. ENG. [Signature] 4-15-40				
			APPROVAL				
			SCALE FULL SIZE				
			SUPERSEDED BY 2				
			RUDDER				
			HINGE				
			DETAIL				
			SUPERSEDES				
			REF. DRAWING NO. 214327				
			NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA				

214376

Rev. 4/16/40



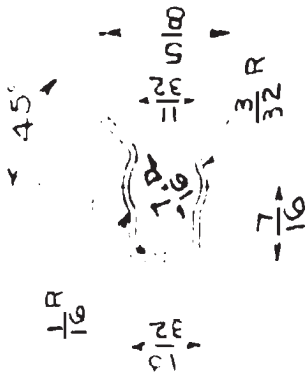
①	N3N-3	#5 PAR. 0.
	MODEL	BUR. AERO. CHGE. INC.

1	68122-11	214376-1	PIN - LOCK	.080 DIA x 9	22W11	—	AN-09 -P-421																																																																																								
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MUSIC WIRE	SPEC.	HT. T.	U. T. S. #/SQ. IN.	FINISH	EST. WT.	ACT. WT.																																																																																				
N3N-3																																																																																															
← DESIGNED FOR DIMENSIONS ARE IN INCHES, LIMITS ± 1/32 DECIMALS ± .010, ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.																																																																																															
<table border="1"> <tr> <td>DRAWN</td> <td>HANSBERRY</td> <td>4-16-40</td> </tr> <tr> <td>TRACED</td> <td></td> <td></td> </tr> <tr> <td>CHECKED</td> <td></td> <td></td> </tr> <tr> <td>SUPERVISED</td> <td>Daccio</td> <td>4-16-40</td> </tr> <tr> <td>STRUCTURE</td> <td></td> <td></td> </tr> <tr> <td>ARCH DRAFT.</td> <td>Leibold</td> <td>4/17/40</td> </tr> <tr> <td>PROJ. ENG.</td> <td>Christen</td> <td>4/17/40</td> </tr> <tr> <td>ASST. CH'F. ENG.</td> <td>Barnaby</td> <td>4-16-40</td> </tr> <tr> <td>APPROVAL</td> <td></td> <td></td> </tr> </table>												DRAWN	HANSBERRY	4-16-40	TRACED			CHECKED			SUPERVISED	Daccio	4-16-40	STRUCTURE			ARCH DRAFT.	Leibold	4/17/40	PROJ. ENG.	Christen	4/17/40	ASST. CH'F. ENG.	Barnaby	4-16-40	APPROVAL																																																											
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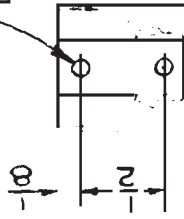
214407

NOTES:-

1 HEAT-TREAT PH5-4 TO
ROCKWELL C36-40.
AFTER PLATING RELIEVE
PER PH4.



DRILL ϕ .32 (.116)
2 HOLES



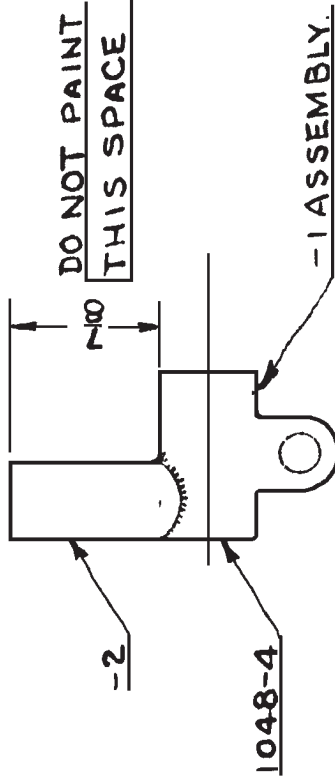
N3N-3	# 5 PAR. d
MODEL	BUR. AERO. CHGE. INC.

①

1	67727-1	214407-1	CLIP	.028 X 3/4 X 2 1/2	STEEL	47S15	SCALE	PF-08
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	NOTE 1	U.T.S. FINISH
N3N-3								EST. WT. ACT. WT
DESIGNED FOR				DIMENSIONS ARE IN INCHES. LIMITS \pm 1/64 DECIMALS \pm .010, ANGLES \pm 1/2°, UNLESS OTHERWISE NOTED.				
ALTERNATIONS				DRAWN TRACED <i>W. Brown</i> 6-6-40				
ADDED BUR CHGE. 5				CHECKED <i>Ross</i> 6-6-40				
BLOCK INC. CHGE. 5				SUPERVISOR <i>Davis</i> 6-6-40				
				STRUCTURE				
				CHIEF DRAFT. <i>M. L. G. G.</i> 6-6-40				
				PROJ. ENGR. <i>W. H. G.</i> 6-7-40				
				ASST. CHY. ENGR. <i>Barnes</i> 6-7-40				
				APPROVAL				
				SUPERSEDED BY				
				SCALE				
				FULL SIZE				
				REF. DRAWING NO.				
				214407				
				SUPERSEDED BY				
				MAGNETO CONTROL ROD				
				CLIP				
				NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA				

214408

214408-1



MODEL	N3N-3
# 5 PAIR d	
BUR. AERO. CHGE. INC.	

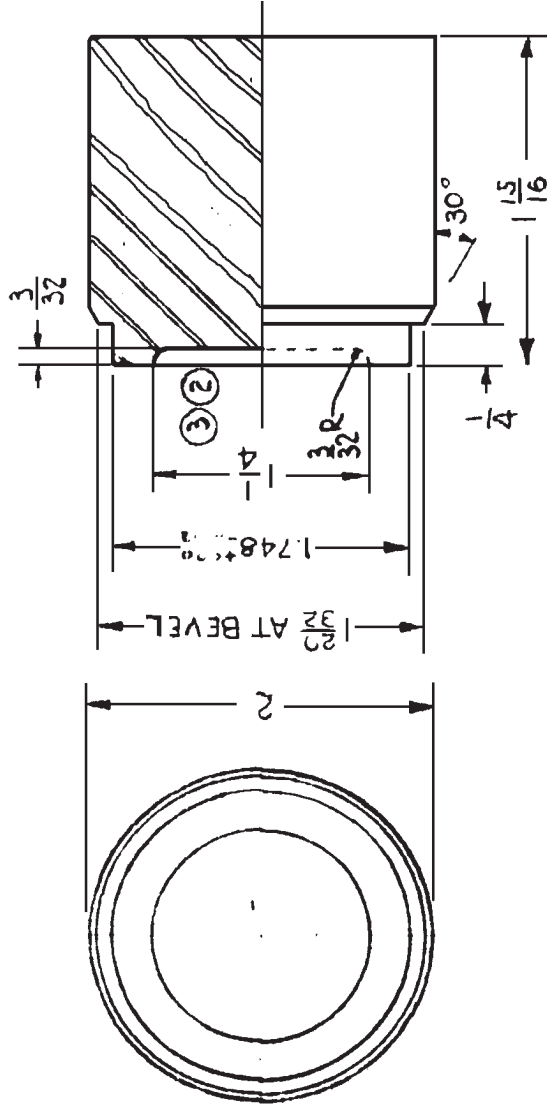
1 214408-1 1048-4 CLAMP STANDARD.
 1 214408-1 214408-2 TUBE 7/16 QD X D28 X 1 STEEL 44T18

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
1	67727-1	214408-1	CLAMP ASSEM						Pf1-106		
DIMENSIONS ARE IN INCHES. LIMITS $\pm 1/32$ DECIMALS $\pm .010$, ANGLES $\pm 1/2^\circ$, UNLESS OTHERWISE NOTED.											
← DESIGNED FOR			ALTERNATIONS								
ADD'D BCR. CHG. IN BLOCK INC. CHG. IN G.P.S.			① B-29-40								
APPROVAL			DRAWN TRACED: <i>W. B. ...</i> 6-6-40 CHECKED: <i>Ross</i> 6-6-40 SUPERVISOR: <i>[Signature]</i> 6-6-40 STRUCTURE: <i>[Signature]</i> CHIEF DRAFT: <i>[Signature]</i> 6-6-40 PROJ. ENG.: <i>[Signature]</i> 6-7-40 ASST. CHIEF ENG.: <i>[Signature]</i> 6-7-40								
REF. DRAWING NO.			FULL SIZE								
SUPERNUMERARY			SUPERNUMERARY								
SCALE			SCALE								
NAVY YARD			NAVY YARD								
PHILADELPHIA			PHILADELPHIA								

CLAMP
 MAGNETO CONTROL ROD
 214408

214417

- ① BUFF
- ② HAND FINISH
- ③ SMOOTH BLAST
- ④ ROUGH BLAST
- ⑤ BRASS FILE OR SCRAPE
- ⑥ SAND BLAST
- ⑦ REMOVE FINES AND SPRUELS
- ⑧ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.

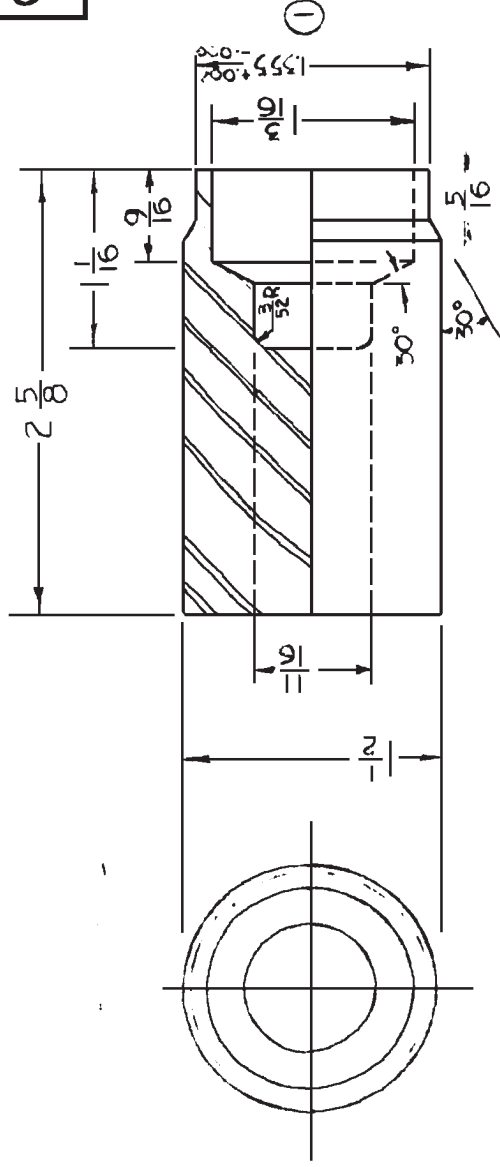


③ ALL OVER

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	45223 GR.A	HT. T.	U.T.S. #/SQ.IN.	FINISH	EST. WT.	ACT. WT.
1	310888-2	214417-1	TERMINAL-CYLINDER	2 DIA. ± .010	STEEL	45223 GR.A	-	-	-	-	-
<p>①</p> <p>DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.</p>											
<p>NSN-3</p> <p>REPLACED FOR RECESSED HOLE.</p> <p>10-16-40</p> <p>REMOVED 1/4 DIA. x 3/32 DEEP RECESS</p> <p>8-26-40</p> <p>STOCK IN D/M WAS 2 1/6 DIA. x 2</p> <p>8-20-40</p> <p>ALTERATIONS</p>			<p>BEIL</p> <p>8-8-40</p> <p>CHECKED <i>W. Sullivan</i> 8/9/40</p> <p>SUPERVISOR <i>W.ahn</i> 8-12-40</p> <p>STRUCTURE <i>W.ahn</i></p> <p>CHIEF DRAFT. <i>W.ahn</i> 8-13-40</p> <p>PROJ. ENG. <i>W.ahn</i> 8-13-40</p> <p>ASST. CH.F. ENG. <i>W.ahn</i> 8-13-40</p> <p>APPROVAL <i>W.ahn</i></p>								
<p>RECESSED HOLE</p> <p>REPLACED FOR</p> <p>1/4 x 3/32 R</p>					<p>TERMINAL</p> <p>TAIL WHEEL - SHOCK STRUT - CYLINDER</p> <p>SUPERSEDED BY</p> <p>SCALE</p> <p>FULL SIZE</p> <p>REF. DRAWING NO.</p> <p>214417</p> <p>PHILADELPHIA</p>						
<p>RECESSED HOLE</p> <p>REPLACED FOR</p> <p>1/4 x 3/32 R</p>					<p>NAVAL AIRCRAFT FACTORY</p>						

214418

- ① BUFF
 - ② HAND FINISH
 - ③ SMOOTH BLAST
 - ④ ROUGH MACH.
 - ⑤ BRASS FILE OR GRIND
 - ⑥ SAND BLAST
 - ⑦ REMOVE FINIS AND SPRUES.
- FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.



FINISH ③ ALLOWER

1	310890-2	214418-1	TERMINAL - PISTON	1 1/2 DIA. X 2 5/8	STEEL	46533 22 A	-	-	-	-																								
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT. ACT. WT																								
N3N-3																																		
←-DESIGNED FOR				DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.																														
REMOVED 1 25/64 DIM.				ALTERNATIONS																														
8-26-40				<table border="1"> <tr> <td>DRAWN TRACED</td> <td>LOMAS</td> <td>8-8-40</td> </tr> <tr> <td>CHECKED</td> <td><i>W. H. H. H. H.</i></td> <td>8-9-40</td> </tr> <tr> <td>SUPERVISOR</td> <td><i>W. H. H. H. H.</i></td> <td>8-12-40</td> </tr> <tr> <td>STRUCTURE</td> <td></td> <td></td> </tr> <tr> <td>CHIEF DRAFT.</td> <td><i>W. H. H. H. H.</i></td> <td>8-13-40</td> </tr> <tr> <td>PROJ. ENG.</td> <td><i>W. H. H. H. H.</i></td> <td>8-13-40</td> </tr> <tr> <td>ASST. CHT. ENG.</td> <td><i>W. H. H. H. H.</i></td> <td>8-13-40</td> </tr> <tr> <td>APPROVAL</td> <td></td> <td></td> </tr> </table>							DRAWN TRACED	LOMAS	8-8-40	CHECKED	<i>W. H. H. H. H.</i>	8-9-40	SUPERVISOR	<i>W. H. H. H. H.</i>	8-12-40	STRUCTURE			CHIEF DRAFT.	<i>W. H. H. H. H.</i>	8-13-40	PROJ. ENG.	<i>W. H. H. H. H.</i>	8-13-40	ASST. CHT. ENG.	<i>W. H. H. H. H.</i>	8-13-40	APPROVAL		
DRAWN TRACED	LOMAS	8-8-40																																
CHECKED	<i>W. H. H. H. H.</i>	8-9-40																																
SUPERVISOR	<i>W. H. H. H. H.</i>	8-12-40																																
STRUCTURE																																		
CHIEF DRAFT.	<i>W. H. H. H. H.</i>	8-13-40																																
PROJ. ENG.	<i>W. H. H. H. H.</i>	8-13-40																																
ASST. CHT. ENG.	<i>W. H. H. H. H.</i>	8-13-40																																
APPROVAL																																		
				SUPERSEDED BY			SUPERSEDES																											
				SCALE			FULL SIZE																											
				REF. DRAWING NO.			214418																											
				NAVAL AIRCRAFT FACTORY PHILADELPHIA																														

TERMINAL

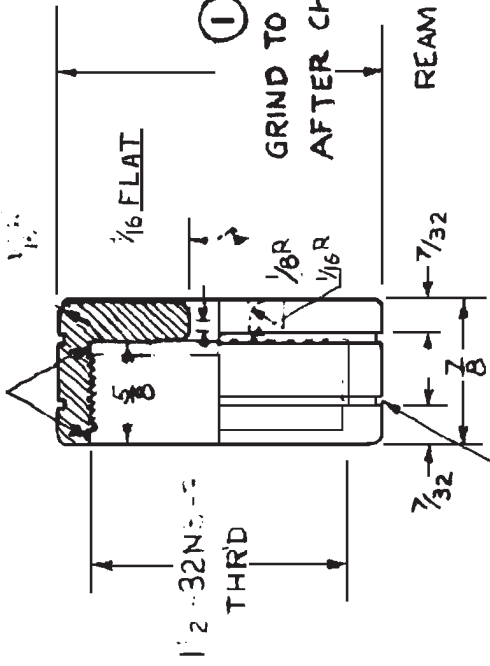
TAIL WHEEL - SHOCK STRUT - PISTON

Handwritten note: 214418-1

214419

- ① BUFF
- ② REMOVE FINISH
- ③ REMOVE FINISH AND SPRUEL
- ④ FINISH ALL SURFACES WITH STRENGTHENING

RELIEF $\frac{3}{32}$ WIDE
 $1.502 \pm .005$ DIA



① GRIND TO $1.872 \pm .002$ AFTER CHROME PLATING.

REAM $.375 \pm .001$

③ ALL OVER

CHROME PLATE OUTSIDE DIA. (SPEC. P44-2)

2 GROOVES
 $\frac{1}{16}$ WIDE $\frac{1}{32}$ DEEP

Handwritten: 2/14/40

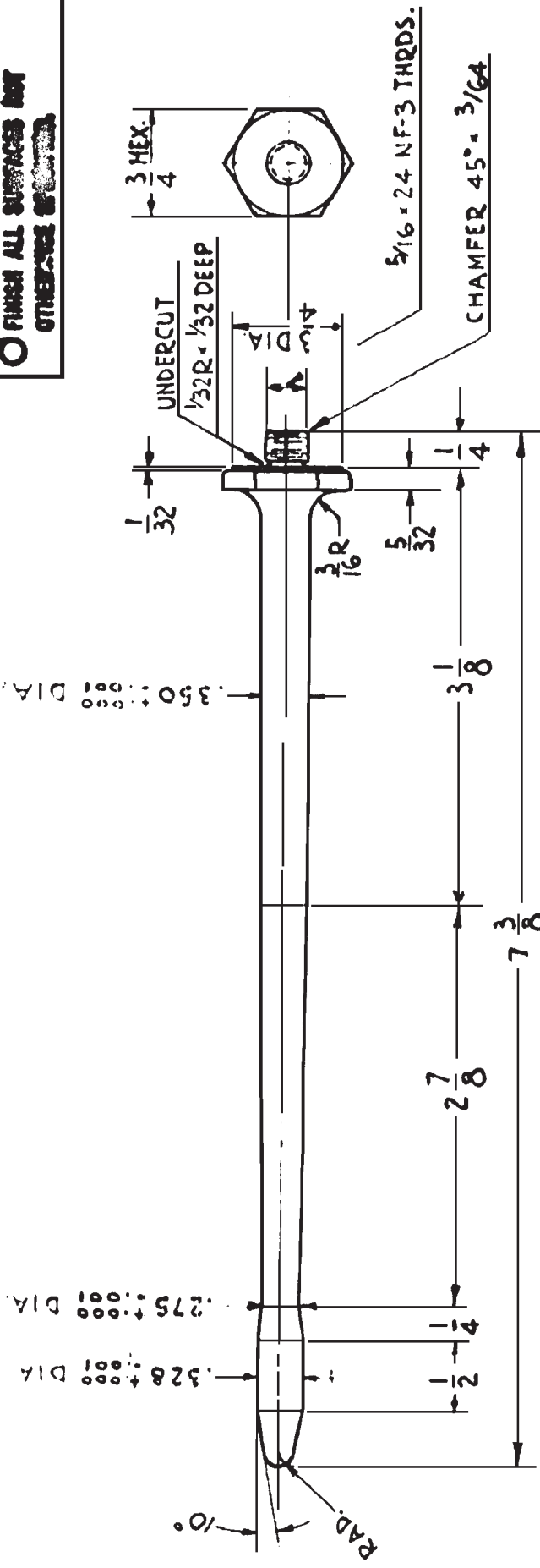
NO. REQ.	ASSEM.	46G42-3	214419-1	PISTON HEAD	1 1/2 DIA. x 1 1/16	STEEL	46S21	PH5-5	125000	NOTED
N3N-3		DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS $\pm \frac{1}{64}$ DECIMALS $\pm .010$. ANGLES $\pm \frac{1}{2}^\circ$. UNLESS OTHERWISE NOTED.						
		DRAWN		BEIL	B-7-40					
		CHECKED		<i>W. H. ...</i>	B-8-40					
		SUPERVISOR		<i>W. H. ...</i>	B-12-40					
		STRUCTURE								
		CHIEF DRAFT.		<i>W. H. ...</i>	B-13-40					
		PROJ. ENG.		<i>W. H. ...</i>	B-13-40					
		ASST. CH'F. ENG.		<i>W. H. ...</i>	B-13-40					
		APPROVAL		<i>W. H. ...</i>	B-13-40					
		ALTERNATIONS		REMOVED MACHINE P44-2 WAS P-14 B-26-40 B-26-40						
		SUPERSEDED BY		SUPERSEDES						
		SCALE		FULL SIZE						
		REF. DRAWING NO.		214419						
		NAVY YARD		NAVAL AIRCRAFT FACTORY PHILADELPHIA						

214420

NOTE:

- 1 FINISH ALL SURFACES EXCEPT THREADS.
- 2 POLISH ALL SURFACES EXCEPT THREADS.

- 1 BUFF
- 2 HAND FINISH
- 3 SAND BLAST
- 4 REMOVE FILMS AND SPRAYS
- 5 FINISH ALL SURFACES AND OTHERWISE SPECIFIED



NO. REQ.	ASSEM.	214420-1	PIN - METERING	3/4 HEX. x 7 1/2	STEEL	46S21	PH-5-5	125000	SEC. NOTE	
N3N-3		← DESIGNED FOR		STOCK	MATERIAL	SPEC.	HT. T.	U.T.S. #/SQ. IN.	FINISH	EST. WT. ACT. WT.
				DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.						
				DRAWN TRACED	LORENZ	8-7-40				
				CHECKED	<i>[Signature]</i>	8-9-40				
				SUPERVISOR	<i>[Signature]</i>	8-12-40				
				STRUCTURE						
				CHIEF DRAFT	<i>[Signature]</i>	8-13-40				
				PROJ. ENG.	<i>[Signature]</i>	8-13-40				
				ASST. CH'F. ENG.	<i>[Signature]</i>	8-13-40				
				APPROVAL						
				ALTERNATIONS						
				PIN - TAIL WHEEL						
				SHOCK STRUT METERING						
				SUPERSEDED BY			SUPERSEDES			
				SCALE			214420			
				FULL SIZE			REF. DRAWING NO.			
				NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA						

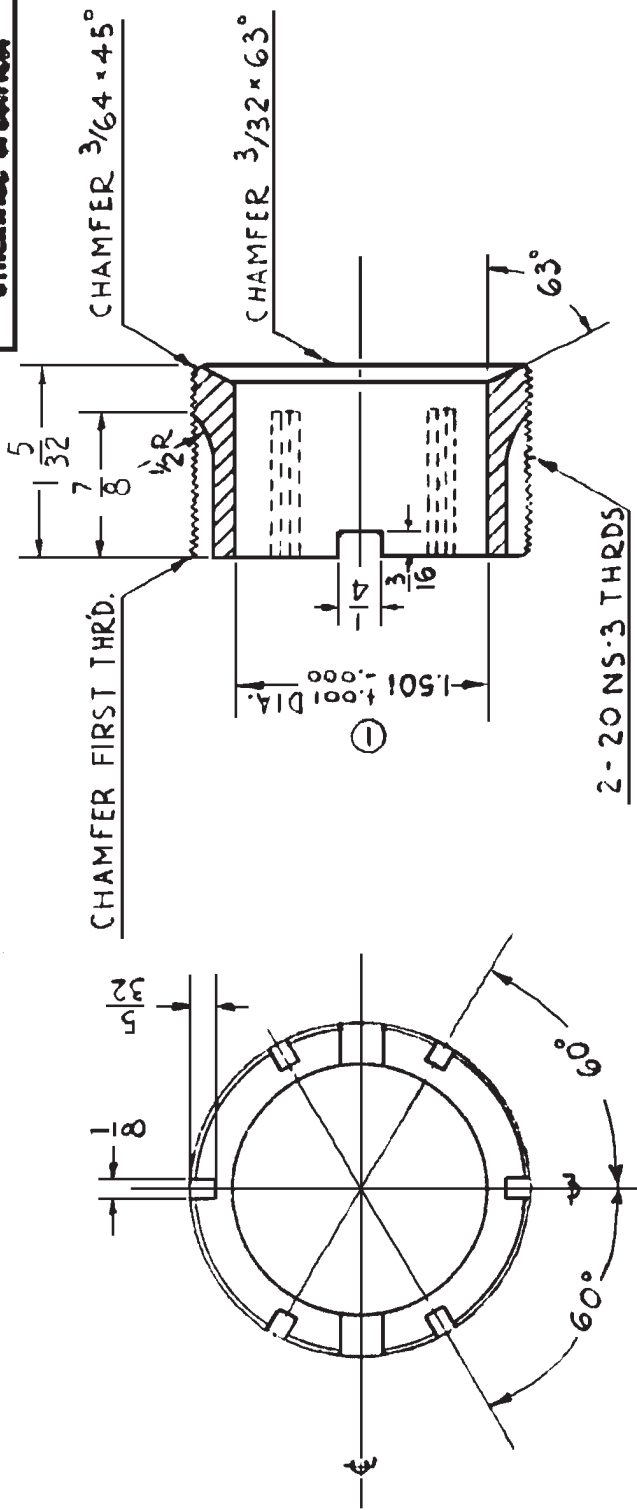
Sub. 8/14/40.

214422

NOTE:-

FINISH ALL SURFACES (3)

- ① BUFF
- ② HAND FINISH
- ③ SMOOTH WHEEL
- ④ BROUGH WHEEL
- ⑤ BRASS FILE ON GRIND
- ⑥ SAND BLAST
- ⑦ REMOVE FINS AND SPRINGS
- ⑧ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.

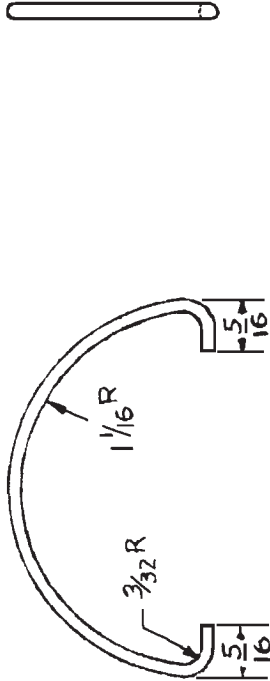


NO. REQ.	ASSEM.	46642-3	214422-1	NUT - PACKING	NAME	STOCK	2 1/16 DIA x 1 3/16	BRASS	46B26	—	62000	—
DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.												
DRAWN TRACED												
CHECKED <i>Phelan</i> 8-8-40												
SUPERVISOR <i>Phelan</i> 8-12-40												
STRUCTURE												
CHIEF DRAFT. <i>Phelan</i> 8-13-40												
PROJ. ENG. <i>Phelan</i> 8-13-40												
ASST. CN'F. ENG. <i>Barnall</i> 8-15-40												
APPROVAL												
DESIGNED FOR												
PART NO.												
←-DESIGNED FOR												
DIMENSIONS 1.501 ± .001												
WAS 1.499 ± .001												
8-26-40												
ALTERNATIONS												
①												
SUPERSEDED BY												
SCALE												
FULL SIZE												
REF. DRAWING NO.												
NUT - TAIL WHEEL												
SHOCK STRUT												
PACKING												
SUPERSEDES												
214422												
NAVAL AIRCRAFT FACTORY PHILADELPHIA												

Order 214/40.

214424

6-13-40



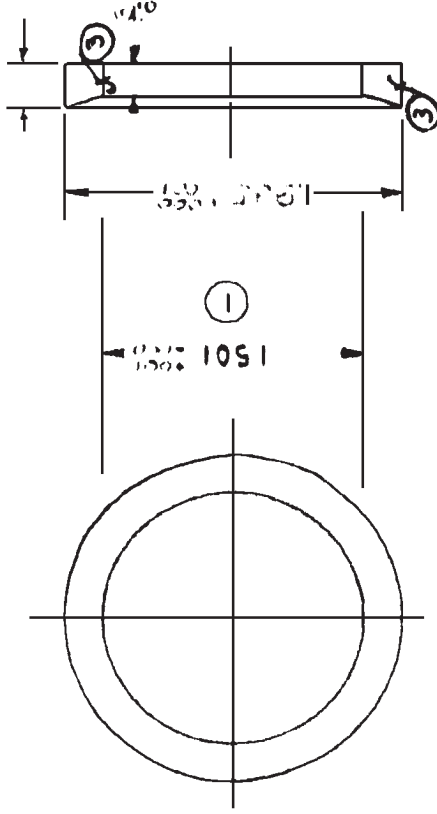
SPRING TO BE TREATED FOR EMBRITTLEMENT
RELIEF AFTER CADMIUM PLATE IN ACCORD-
ANCE WITH SPEC. PH-4.

1	46642-2	214424-1	LOCK WIRE	.080 DIA. X 4 1/4	STEEL	22W11	-	265000	AN-31
NO. REQ	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S. #/SQ. IN.	FINISH
DESIGNED FOR									
N3N-3									
DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.									
ALTERNATIONS									
DRAWN TRACED									
CHECKED <i>W. H. ...</i>									
SUPERVISOR <i>W. H. ...</i>									
STRUCTURE									
CHIEF DRAFT. <i>W. H. ...</i>									
PROJ. ENG. <i>W. H. ...</i>									
ASST. CH'F. ENG. <i>W. H. ...</i>									
APPROVAL									
WIRE - TAIL WHEEL					SHOCK STRUT - LOCK				
SUPERSEDED BY					SUPERSEDED				
SCALE					SCALE				
FULL SIZE					REF. DRAWING NO.				
214424					214424				
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA									

214425

L. G. G. G.

- ① BUFF
- ② HAND FINISH
- ③ SMOOTH MACL
- ④ ROUGH MACL
- ⑤ ROUGH FILE OR BRASS
- ⑥ SAND BLAST
- ⑦ REMOVE FINNS AND SPRUES.
- ⑧ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.



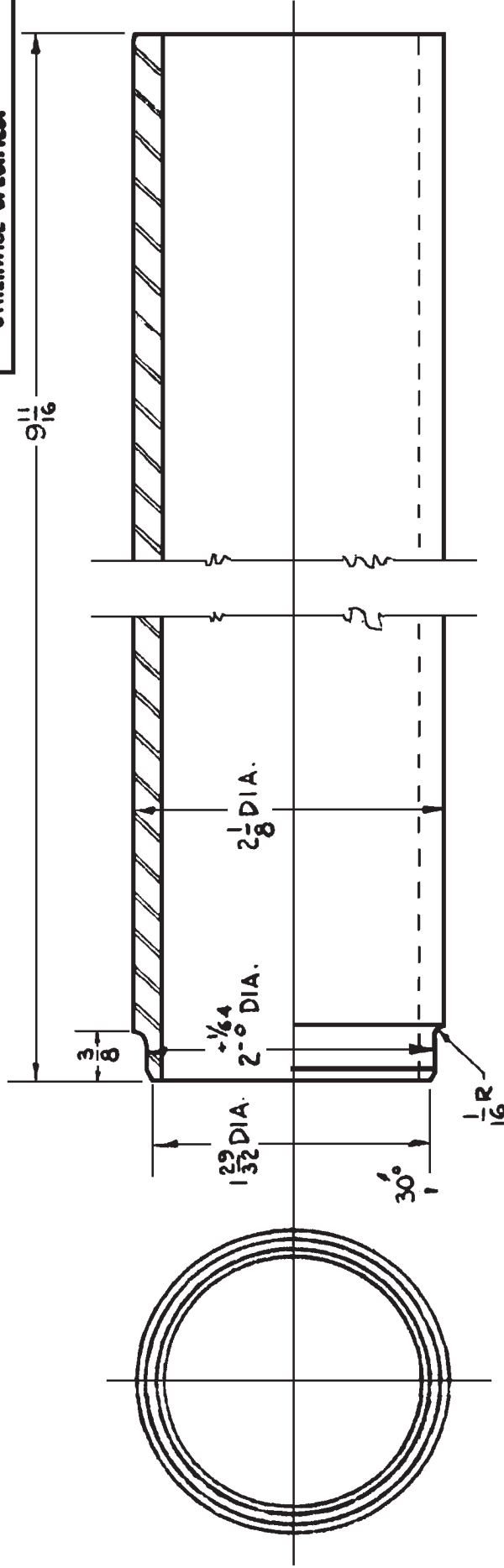
1	46642-3	214425-1	RING RETAINER	2 DIA. X 1/4	STEEL	5523 6 GRADE	PH 5-10	150,000	AN-89 P-431			
NO. REQ.		ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. 7.	U.T.S. 750 IN.	FINISH	EST. WT.	ACT. WT.
N3N-3		←DESIGNED FOR			DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.							
		ALTERNATIONS			SUPERSEDED BY							
		DIMENS. 1501 WAS 1.499 ± .001 8-13-40			RING-TAIL WHEEL SHOCK STRUT - RETAINER							
		DRAWN TRACED			SCALE							
		CHECKED <i>Stallman</i>			FULL SIZE							
		SUPERVISOR <i>Stallman</i>			REF. DRAWING NO.							
		STRUCTURE			214425							
		CHIEF DRAFT.			NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA							
		PROJ. ENG. <i>Wainwright</i>										
		ASST. CHIEF ENG. <i>Barnally</i>										
		APPROVAL										

214426

NOTE:

FINISH ALL OVER *f*

- ① BUFF
 - ② HAND FINISH
 - ③ SMOOTH MACH.
 - ④ ROUGH MACH.
 - ⑤ ROUGH FILE OR GRIND
 - ⑥ SAND BLAST
 - ⑦ REMOVE FINS AND SPRUES.
- ⊕ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.

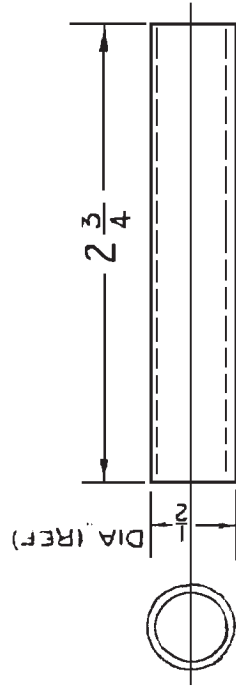
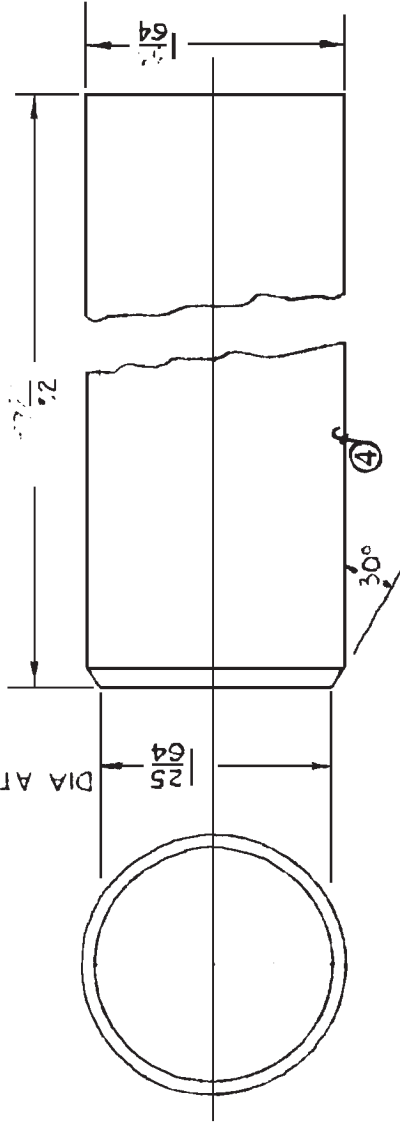


NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT	ACT. WT
1	310888-2	214426-1	CYLINDER, ROUGH	2 1/8 O.D. X .1875 X 9 1/4	STEEL	44T18					
<p>N3N-3 ← DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.</p>											
			DRAWN TRACED	DAPUZZO 8-8-40							
			CHECKED	<i>W. L. Lullington 8-9-40</i>							
			SUPERVISOR	<i>Strahan 8/12-40</i>							
			STRUCTURE								
			CHIEF DRAFT.	<i>W. L. Lullington 8-13-40</i>							
			PROJ. ENG.	<i>W. L. Lullington 8-13-40</i>							
			ASST. CH.F. ENG.	<i>Barnes 8-13-40</i>							
			APPROVAL								
ALTERNATIONS											
<p>TUBE - TAIL WHEEL SHOCK STRUT CYLINDER</p>											
<p>SUPERSEDED BY</p>											
<p>SCALE</p>											
<p>FULL SIZE</p>											
<p>REF. DRAWING NO. 214426</p>											
<p>SUPERSEDES</p>											
<p>NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA</p>											

W. L. Lullington

214427

- ① BUFF
- ② HAND FINISH
- ③ SMOOTH MACH.
- ④ ROUGH MACH.
- ⑤ EDGED FILE OR BRID
- ⑥ SAND BLAST
- ⑦ REMOVE FINIS AND SPRUES.
- ⑧ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.



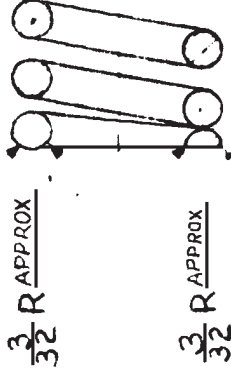
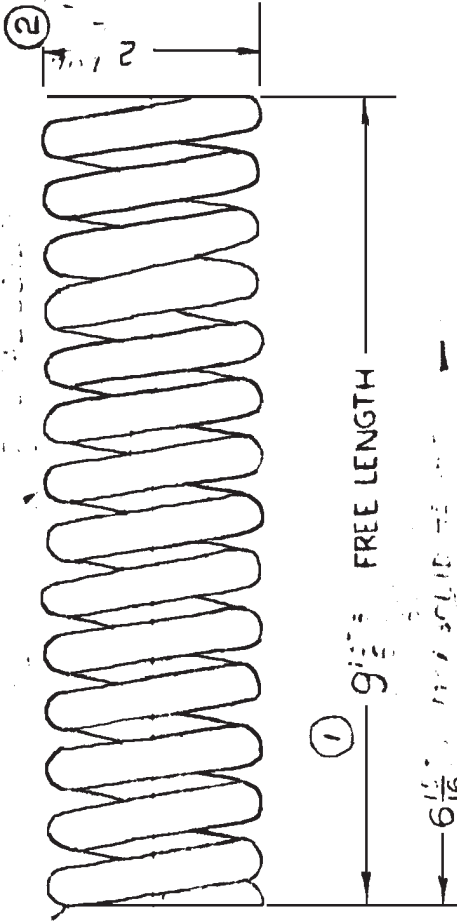
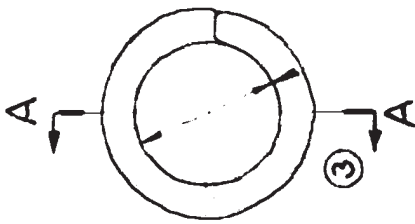
-2

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT																																								
1	310890-2	21442-2	TUBE-FILLER	1/2 X 1/2 X 2 3/4	STEEL	44T18	-	-	-	-	-																																								
1	310890-2	214427-1	TUBE-PISTON ROUGH	1 5/8 OD X 1.34 X 7 3/4	STEEL	44T18	-	-	-	-	-																																								
<p>← DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.</p>																																																			
<p>ALTERATIONS</p> <table border="1"> <tr> <td>8-20-40</td> <td>W.A.</td> <td>DESIGNED BY</td> <td>LOMAS</td> <td>8-7-40</td> </tr> <tr> <td>8-20-40</td> <td>W.A.</td> <td>CHECKED</td> <td><i>W.A. Lomas</i></td> <td>8/9/40</td> </tr> <tr> <td>8-20-40</td> <td>W.A.</td> <td>SUPERVISOR</td> <td><i>W.A. Lomas</i></td> <td>8-12-40</td> </tr> <tr> <td>8-20-40</td> <td>W.A.</td> <td>STRUCTURE</td> <td></td> <td></td> </tr> <tr> <td>8-20-40</td> <td>W.A.</td> <td>CHIEF DRAFT.</td> <td><i>W.A. Lomas</i></td> <td>8-13-40</td> </tr> <tr> <td>8-20-40</td> <td>W.A.</td> <td>PROJ. ENG.</td> <td><i>W.A. Lomas</i></td> <td>8-13-40</td> </tr> <tr> <td>8-20-40</td> <td>W.A.</td> <td>ASST. CH'F. ENG.</td> <td><i>W.A. Lomas</i></td> <td>8-13-40</td> </tr> <tr> <td>8-20-40</td> <td>W.A.</td> <td>APPROVAL</td> <td></td> <td></td> </tr> </table>												8-20-40	W.A.	DESIGNED BY	LOMAS	8-7-40	8-20-40	W.A.	CHECKED	<i>W.A. Lomas</i>	8/9/40	8-20-40	W.A.	SUPERVISOR	<i>W.A. Lomas</i>	8-12-40	8-20-40	W.A.	STRUCTURE			8-20-40	W.A.	CHIEF DRAFT.	<i>W.A. Lomas</i>	8-13-40	8-20-40	W.A.	PROJ. ENG.	<i>W.A. Lomas</i>	8-13-40	8-20-40	W.A.	ASST. CH'F. ENG.	<i>W.A. Lomas</i>	8-13-40	8-20-40	W.A.	APPROVAL		
8-20-40	W.A.	DESIGNED BY	LOMAS	8-7-40																																															
8-20-40	W.A.	CHECKED	<i>W.A. Lomas</i>	8/9/40																																															
8-20-40	W.A.	SUPERVISOR	<i>W.A. Lomas</i>	8-12-40																																															
8-20-40	W.A.	STRUCTURE																																																	
8-20-40	W.A.	CHIEF DRAFT.	<i>W.A. Lomas</i>	8-13-40																																															
8-20-40	W.A.	PROJ. ENG.	<i>W.A. Lomas</i>	8-13-40																																															
8-20-40	W.A.	ASST. CH'F. ENG.	<i>W.A. Lomas</i>	8-13-40																																															
8-20-40	W.A.	APPROVAL																																																	
<p>310890-2 TUBES</p>																																																			
<p>TAIL WHEEL SHOCK STRUT - PISTON</p>																																																			
<p>SUPERSEDED BY</p>																																																			
<p>SCALE</p>																																																			
<p>FULL SIZE</p>																																																			
<p>REF. DRAWING NO. 214427</p>																																																			
<p>SUPERSEDED BY</p>																																																			
<p>NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA</p>																																																			

214431

ENDS TO BE SQUARED AND
GROUND AT RIGHT ANGLES

① #
LOAD AT COMPRESSED LENGTH = 1700 LBS
RATE OF COMPRESSION = 592. #/IN
SPRING TO BE FREE FROM PERMANENT
SET
SPRING TO BE MANUFACTURED
IN ACCORDANCE WITH NAVY SPEC 4989



SECTION A-A

SHOWING ROUNDING OF END,
NOTE: BOTH ENDS TO BE ROUNDED.

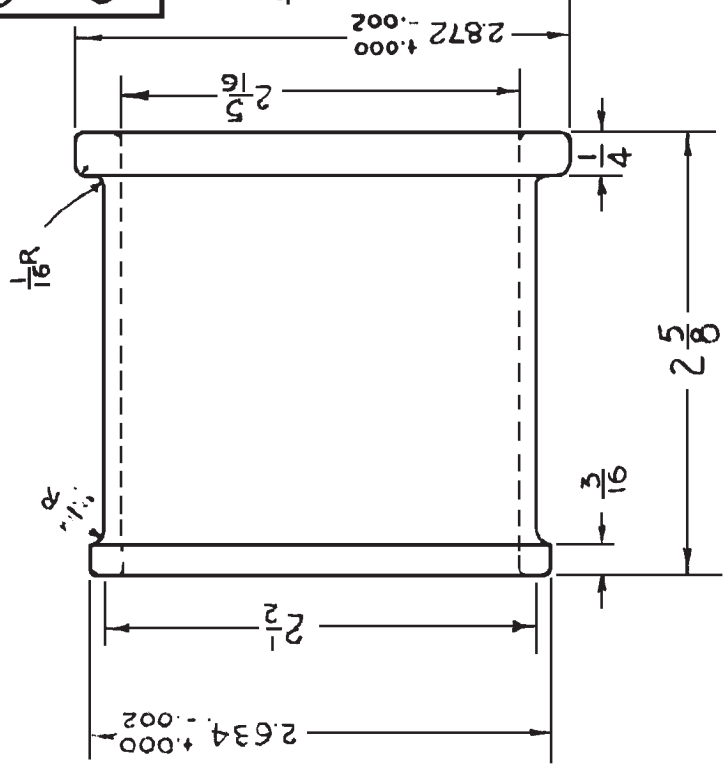
3-18-42

1	68374	214431-1	SPRING	No 6 (461) D.A. WIRE	STEEL				NONE	4.87	
NO. REQ.		ASSEM.	PART NO.	DESIGNED FOR	DIMENSIONS ARE IN INCHES. LIMITS ± 1/16 DECIMALS ± .010 ANGLES ± 1/8° UNLESS OTHERWISE NOTED.	DRAWN TRACED	LOMAS	8-13-40	MATERIAL		
N5N-5				←	WAS 9 7/8 DIA WAS 2 3/4 IN LENGTH	CHECKED	<i>W. J. ...</i>	8-29-40	SPEC.		
ADDED SECTION					SPEC WAS 4957	SUPERVISOR	L. L. ...	9-30-40	HT. T.		
A-A					IN NOTE 2	STRUCTURE			U.T.S. / SQ. IN.		
GINTIS					ALTERNATIONS	CHIEF DRAFT	<i>W. J. ...</i>	9-30-40	FINISH EST. WT. ACT. WT.		
					① 1-27-41	PROJ. ENG.	<i>H. ...</i>	9-3-40	NONE		
					② 3-18-41	ASST. CHIEF ENG.	<i>W. J. ...</i>	9-3-40	4.87		
					③ 3-18-42	APPROVAL	<i>W. J. ...</i>		4.87		
SUPERSEDED BY		SCALE			SUPERSEDED BY			214431			
LANDING GEAR - SHOCK STRUT		HALF SIZE			SUPERSEDED BY			214431			
NAVAL AIRCRAFT FACTORY PHILADELPHIA		REF. DRAWING NO.			NAVAL AIRCRAFT FACTORY PHILADELPHIA			214431			

214432

- ① BUFF
- ② HAND FINISH
- ③ SMOOTH BLAST
- ④ ROUGH MACH.
- ⑤ BROWN FILE OR GRIND
- ⑥ SAND BLAST
- ⑦ REMOVE FIIS AND SPRUES.
- ⑧ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.

BREAK SHARP EDGES - 1/64 R



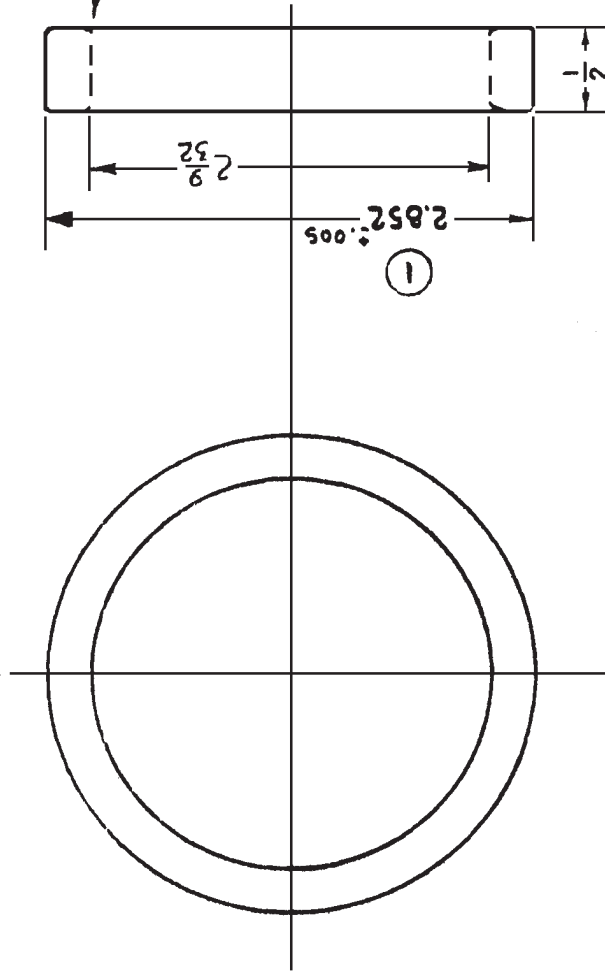
①	1	68374-3	214432-1	FOLLOWER	2 7/8 DIA X 2 5/8	AL ALLOY 46A9	SR-53	62,000	SR-19
NO. REQ.		ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S. FINISH
N3N-3								1/SQ. IN.	EST. WT. ACT. WT
← DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.									
		← ASSEMBLES INTO		ALTERNATIONS		FOLLOWER			
		68374-3 WAS 68374-3A		10-9-40		LANDING GEAR - SHOCK STRUT			
		G.I.T.		K.L.		SUPERSEDED BY			
						SCALE			
						FULL SIZE			
						REF. DRAWING NO.			
						214432			
						NAVAL AIRCRAFT FACTORY PHILADELPHIA			

2/16/40

214433

Order 9/6/40

- ① BUFF
- ② HAND FINISH
- ③ SMOOTH WAGL
- ④ ROUGH MACH.
- ⑤ DOWN FILE OR BEILD
- ⑥ SAND BLAST
- ⑦ REMOVE FINIS AND SPRUED.
- ⑧ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.



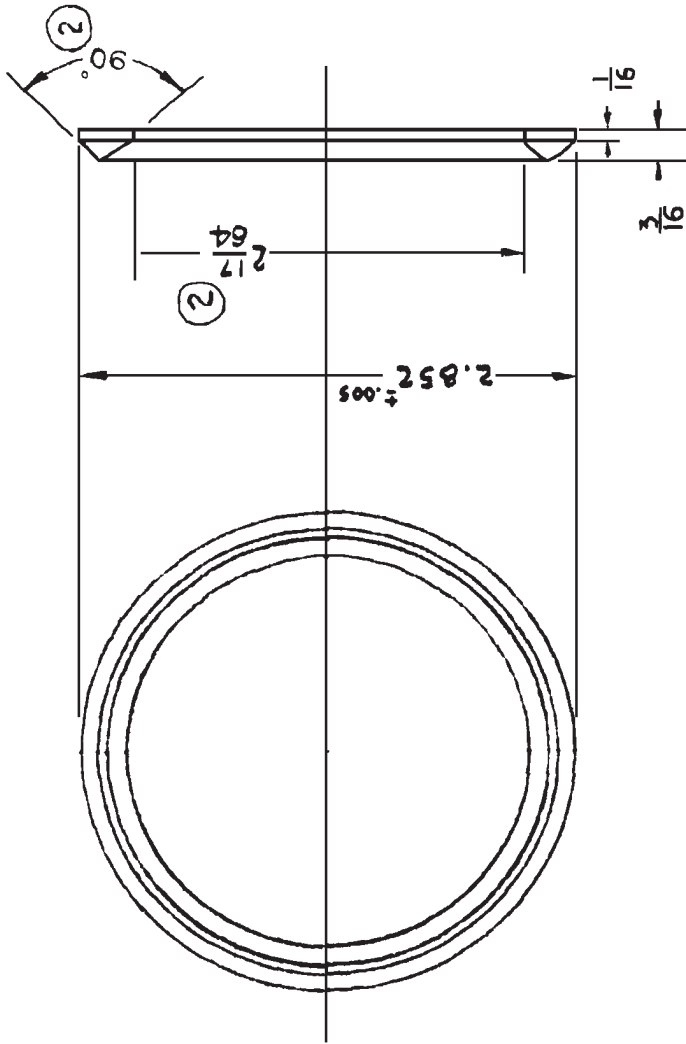
①	1	68374-5	214433-1	SPACER	2 7/8 DIA x 1/2	AL. ALLOY	46A9	SR53	62,000	SR-19	1.2
NO. REQ.		ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S. #/SQ. IN.	FINISH	EST. WT. ACT. WT.
N3N-3											
← DESIGNED FOR											
2.8527.005 WAS 22 -1 WAS ASSEM'D INTO 68374-5 10-10-40 ALTERATIONS											
DRAWN		BEIL		8-13-40		DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2° UNLESS OTHERWISE NOTED.					
TRACED		L. L. P. A. L.		8-30-40		SPACER					
CHECKED		L. L. P. A. L.		8-30-40		LANDING GEAR - SHOCK STRUT - PACKING					
SUPERVISOR		L. L. P. A. L.		8-30-40		SUPERSEDED BY					
STRUCTURE		L. L. P. A. L.		8-30-40		SCALE					
CHIEF DRAFT.		L. L. P. A. L.		8-30-40		FULL SIZE					
PROJ. ENG.		L. L. P. A. L.		8-30-40		REF. DRAWING NO.					
ASST. CH'F. ENG.		L. L. P. A. L.		8-30-40		214433					
APPROVAL		L. L. P. A. L.		8-30-40		NAVAL AIRCRAFT FACTORY PHILADELPHIA					

214434

Rev. 7/6/40

- ① BUFF
- ② HAND FINISH
- ③ SMOOTH MACH.
- ④ ROUGH MACH.
- ⑤ REMOVE FINIS AND SPURRS.
- ⑥ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.
- ⑦ BRASS FILE OR BRID
- ⑧ SAND BLAST

BREAK SHARP EDGES - 1/64 R

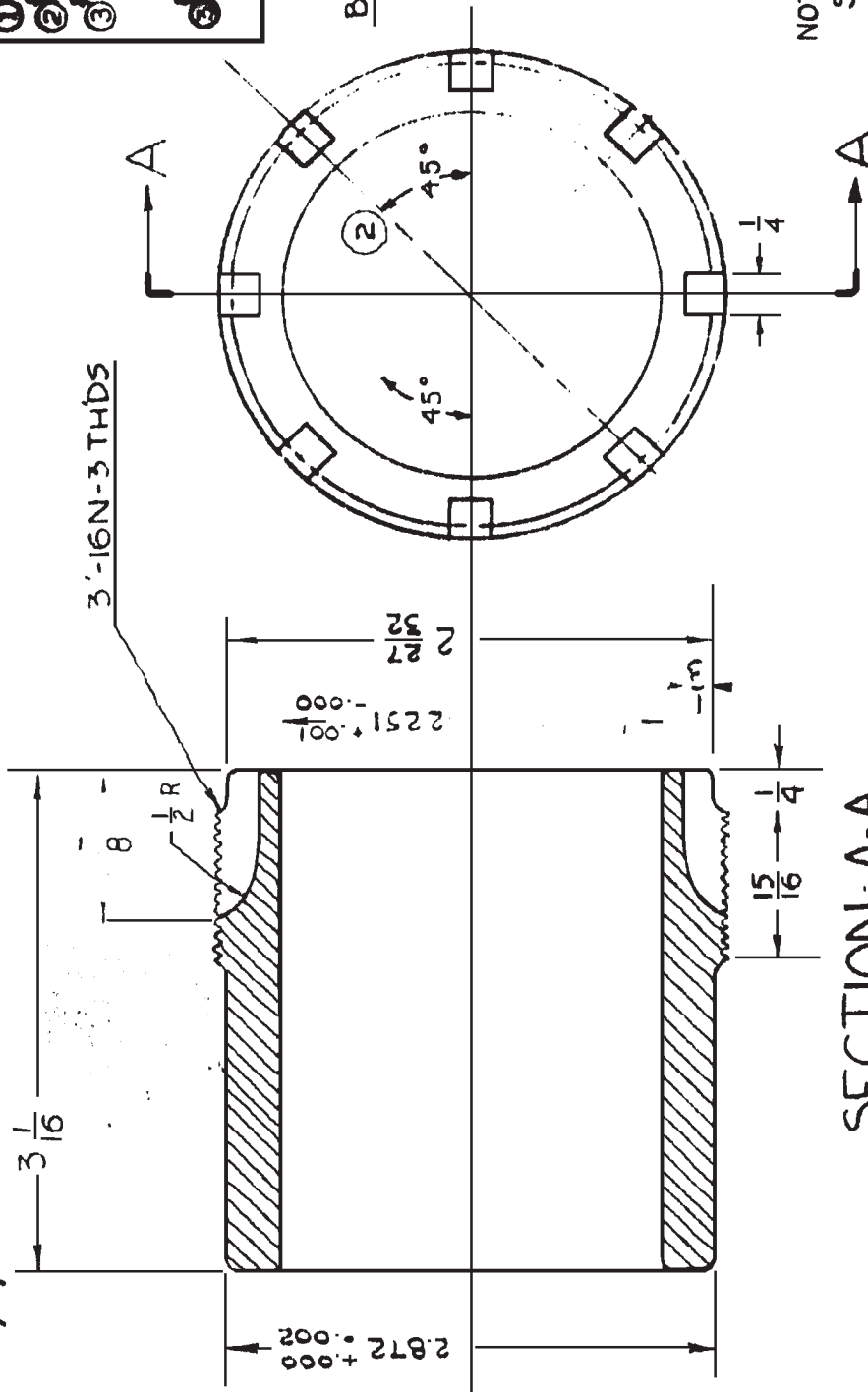


①	1	68374 - 6	214434-1	ADAPTOR	2 7/8 OD x 3/16	AL ALLOY 46A9	SR53	62,000	SR-19
		ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S. FINISH
									EST. WT. ACT. WT.
N3N-3		DESIGNED FOR			DIMENSIONS ARE IN INCHES. LIMITS: 1/64 DECIMALS ± .010, ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.				
2 9/16 3/4 REMOVED		① 10-10-40 <i>WAS ASSEMBLED INTO 68374</i>		ADAPTOR LANDING GEAR					
2 1/4 WAS 2 3/4		② 12-12-40 <i>WAS ASSEMBLED INTO 68374</i>		SHOCK STRUT PACKING - TOP					
90° ADDED R.S.C.		ALTERNATIONS		SUPERSEDED BY					
		DRAWN TRACED		SCALE					
		CHECKED		FULL SIZE					
		SUPERVISOR		REF. DRAWING NO.					
		STRUCTURE		214434					
		CHIEF DRAFT.		NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA					
		PROJ. ENG.							
		ASST. CHIEF ENG.							
		APPROVAL							

214435

- ① BUFF
- ② HAND FINISH
- ③ ~~SAND BLAST~~ SAND BLAST
- ④ ROUGH MACH.
- ⑤ ~~FILE~~ FILE OR GRIND
- ⑥ REMOVE FINIS AND SPRUES, OTHERWISE
- ⑦ FINISH ALL SURFACES NOT OTHERWISE

BREAK SHARP EDGES - $\frac{1}{64}R$



NOTE:-

SPEC. QQ-B721 CLASS B FORGING-SOFT

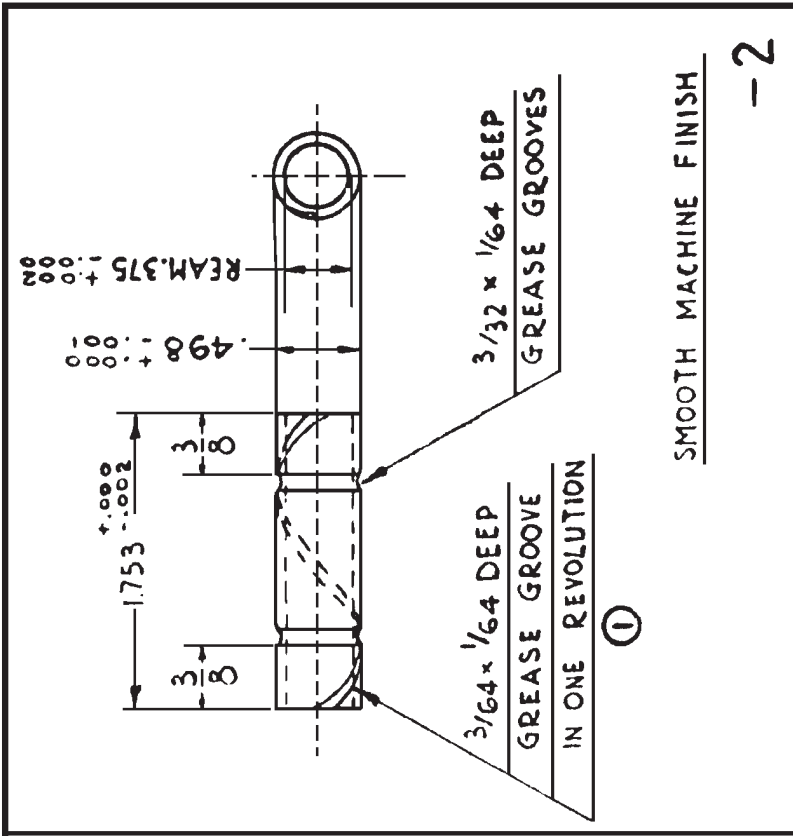
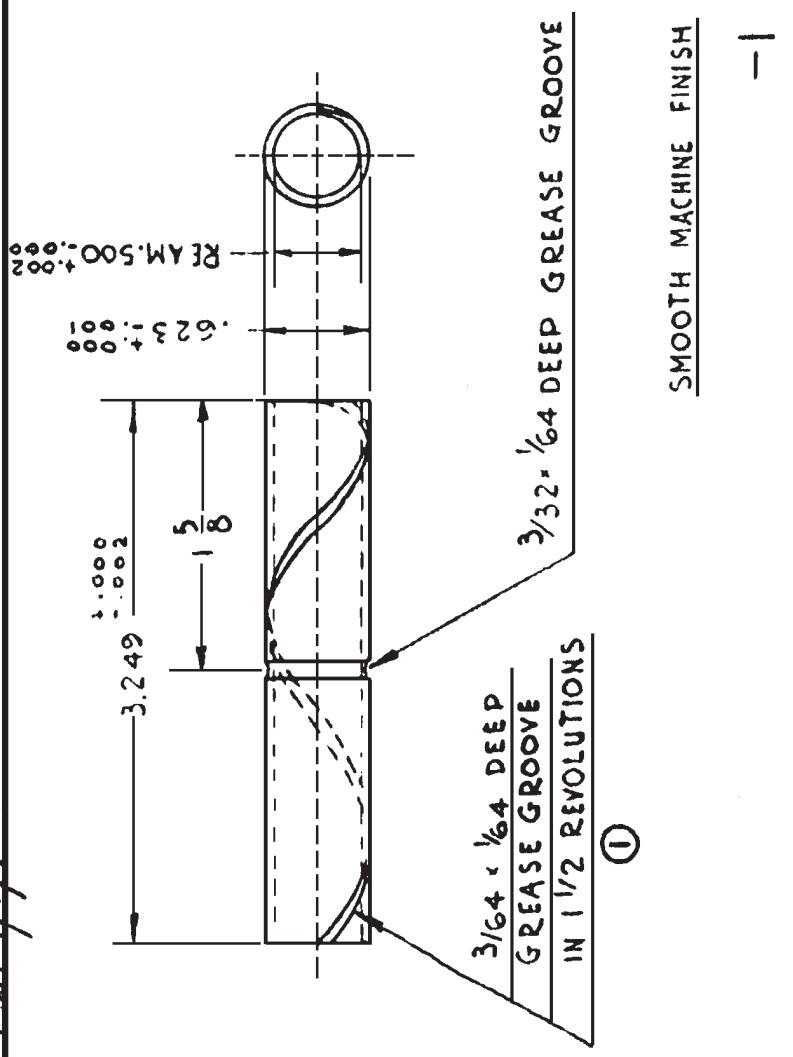
SECTION A-A

①	1	68374-3	214435-11	NUT	NAME	3 DIA X 3 1/16	BRONZE	SEE NOTE	—	85,000	—	.574
NO. REQ.		ASSEM.	PART NO.	DESIGNED FOR	DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010, ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S. / SQ. IN.	FINISH	EST. WT. ACT. WT.
N3N-3				←		LOMAS 8-8-40						
				③	10-30-41	8-30-40						
				②	1-22-41	8-30-40						
				①	10-9-40	8-30-40						
				ALTERNATIONS								
				- ASSEMBLES INTO 68374-5 WAS 68374-3 CHANGED FROM 4-Ø NUMBER OF SLOTS 10-30-41 8 1-22-41 4 10-9-40 4 SIGNED: <i>[Signature]</i>								
				FORGING SOFT 85,000 #/SQ. IN. WAS 46822 GR. II 25,000 #/SQ. IN. U.T.S. SPEC. QQ-B721 CLASS B SUPPLEMENTED BY: NUT SCALE: FULL SIZE REF. DRAWING NO.: 214435 SUPERVISOR: L.J. Baha CHIEF DRAFT: <i>[Signature]</i> PROJ. ENG: <i>[Signature]</i> ASST. CHIEF ENG: <i>[Signature]</i> APPROVAL: <i>[Signature]</i>								
				LANDING GEAR - SHOCK STRUT - BEARING NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA								

Order 9/6/40

214436

Rev. 9/6/40.



* NOTE: - BU. CHG #35 SHOULD BE INCORPORATED.

1	68374-2	214436-2	BUSHING	1/2 DIA. x 1 3/16	BRONZE 46B9	—	25000	—	.10
2	68374-1	214436-1	BUSHING	5/8 DIA. x 3/4	BRONZE 46B9	—	25000	—	.04
NO. REQ. ASSEM.		PART NO.		NAME		STOCK		HT. T. U.T.S. FINISH EST. WT. ACT. WT	
N3N-3		← DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.					

DRAWN TRACED		LORENZ	8-27-40
CHECKED		<i>B. Lambert</i>	8-29-40
SUPERVISOR		<i>L. L. ...</i>	8-30-40
STRUCTURE			
CHIEF DRAFT.		<i>W. ...</i>	8-30-40
PROJ. ENG.		<i>H. ...</i>	9-3-40
ASST. CNF. ENG.		<i>B. ...</i>	9-5-40
APPROVAL			
ALTERNATIONS			
1	12-4-40		

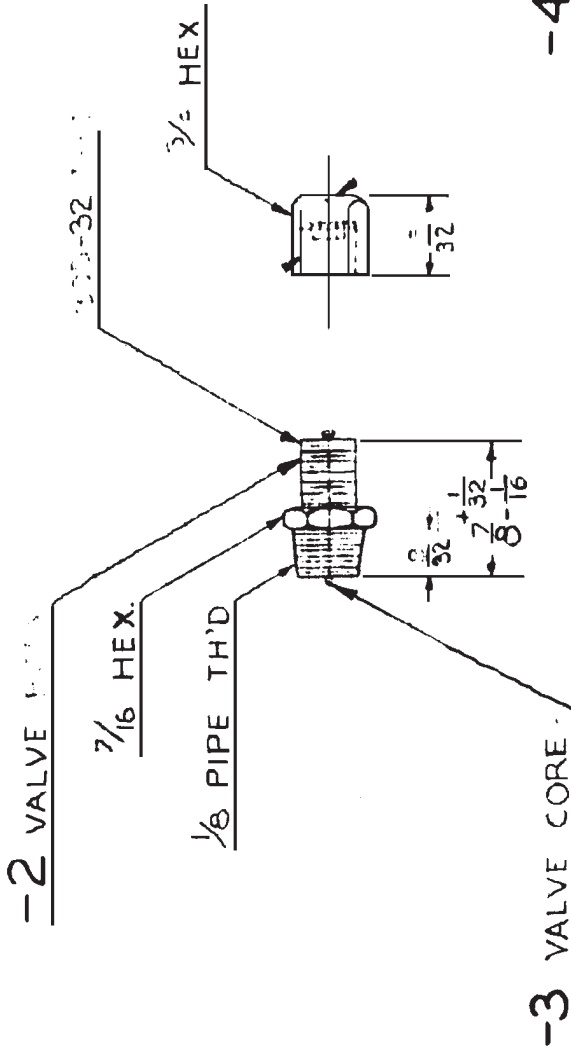
BUSHING · LANDING GEAR
SHOCK STRUT · TORQUE ARM

SUPERSEDED BY
SCALE FULL SIZE
REF. DRAWING NO. 214436
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

214437

NOTES:-

VALVE AND PARTS BEING
 MOUNTING AND SHALL
 WITHSTAND AIR PRESSURE
 OF 250 LBS.



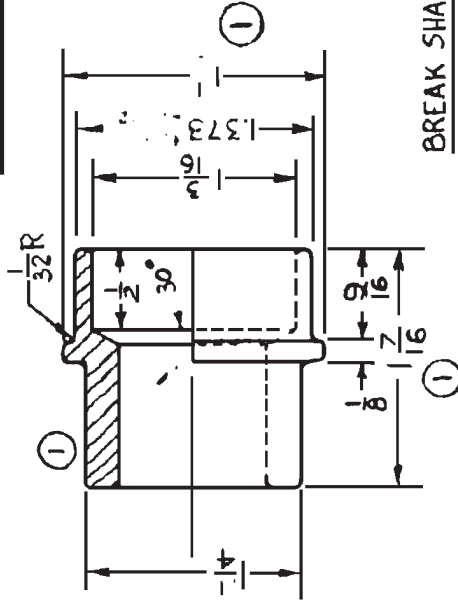
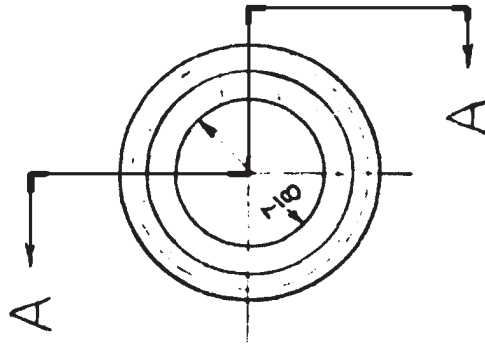
-4 VALVE CAP

-3 VALVE CORE

②	1	214437-1	214437-4	CAP	COMM'L	SIMILAR AND EQUIV. SCHRADER 1357					
②	1	214437-1	214437-3	CORE	COMM'L	SIMILAR AND EQUIV. DILL #100-DBB					
②	1	214437-1	214437-2	BODY	COMM'L	SIMILAR AND EQUIV. DILL-SK-1602					
	1	68374-1	214437-1	VALVE ASSEM.	COMM'L						
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T. #	FINISH	EST. WT.	ACT. WT.
N3N-3 ← DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± 1/4 ANGLES ± 1/4° UNLESS OTHERWISE NOTED.											
		REMOVED NOTE SCHRADER 9167 FROM -38 DILL 666 FROM 1-4 (RESERVED)		DIMENSION CHANGED COMM'L. EQUIV. ADDED 9-3-41 R.R.		ALTERNATIONS 1-28-41 R.R. 1-28-41 R.R.		DRAWN TRAGED CHECKED SUPERVISOR STRUCTURE CHIEF DRAFT. PROJ. ENGR. ASST. CRT. ENR. APPROVAL		JOBSON B-28-40 B. Campbell B-29-40 G.L. Philbin 8-30-40 White 8-20-40 H. Wilson 9-3-40 Lamaly 9-5-40	
VALVE, AIR LAND'G GEAR-SHOCK STRUT-ASSEM.						SUPERSEDED BY					
SCALE FULL SIZE						REF. DRAWING NO.					
NAVY YARD						SUPERSEDED BY					
214437						214437					
PHILADELPHIA						PHILADELPHIA					

214438

- ① BUFF
- ② MAND FINISH
- ③ SMOOTH WALL
- ④ ROUGH MACH.
- ⑤ BRASS FILE ON OTHER
- ⑥ SAND BLAST
- ⑦ REMOVE FINS AND SPRUES
- ⑧ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.



BREAK SHARP EDGES 1/64 R

SECTION A-A

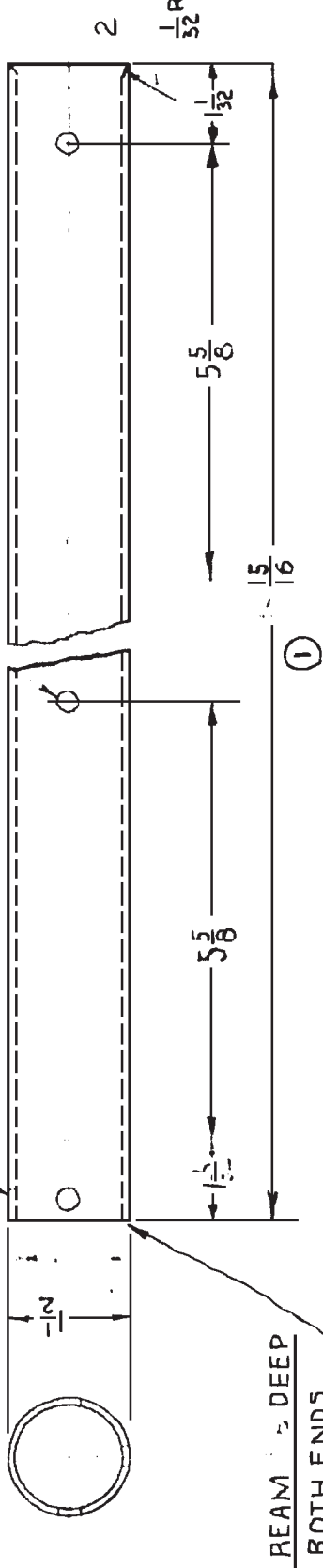
①	310909-2	214438-1	TERMINAL	1 1/2 DIA. X 1 1/2	STEEL	46.523 GR.A	—	—	.25
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S. #/SQ.IN.	FINISH EST. WT.
N3N-3				8-9-40					
← DESIGNED FOR				DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.					
TERMINAL (UPPER)				LANDING GEAR - SHOCK STRUT-PLUNGER					
SUPERSEDED BY				SUPERSEDES					
SCALE				FULL SIZE					
REF. DRAWING NO.				214438					
NAVY YARD				NAVAL AIRCRAFT FACTORY PHILADELPHIA					
APPROVAL				APPROVAL					
ASS'T. CH'F. ENG.				Barnolly 9-5-42					
PROJ. ENG.				Yrishtagay 9-3-40					
CHIEF DRAFT.				Philba 8-30-40					
STRUCTURE				8-30-40					
SUPERVISOR				L. L. Thehm 8-30-40					
CHECKED				B. B. B. 8-29-40					
DRAWN TRACED				BEIL 8-9-40					
ALTERATIONS									
①				10-9-40					
CHANGED PART DIA				REMOVED & CHANGED					
CHANGED THREADS									
LENGTH & PART DIA									

3/16/46

214439

- ① BUFF
- ② HAND FINISH
- ③ ROUNDS
- ④ REMOVE FINNS AND SPRUES.
- ⑤ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.
- ⑥ ROUGH DRAG.
- ⑦ EDGES FILE OR BRIM
- ⑧ SAND BLAST

4 - 1/8" HOLES THIS END ONLY



REAM 1/8" DEEP
BOTH ENDS

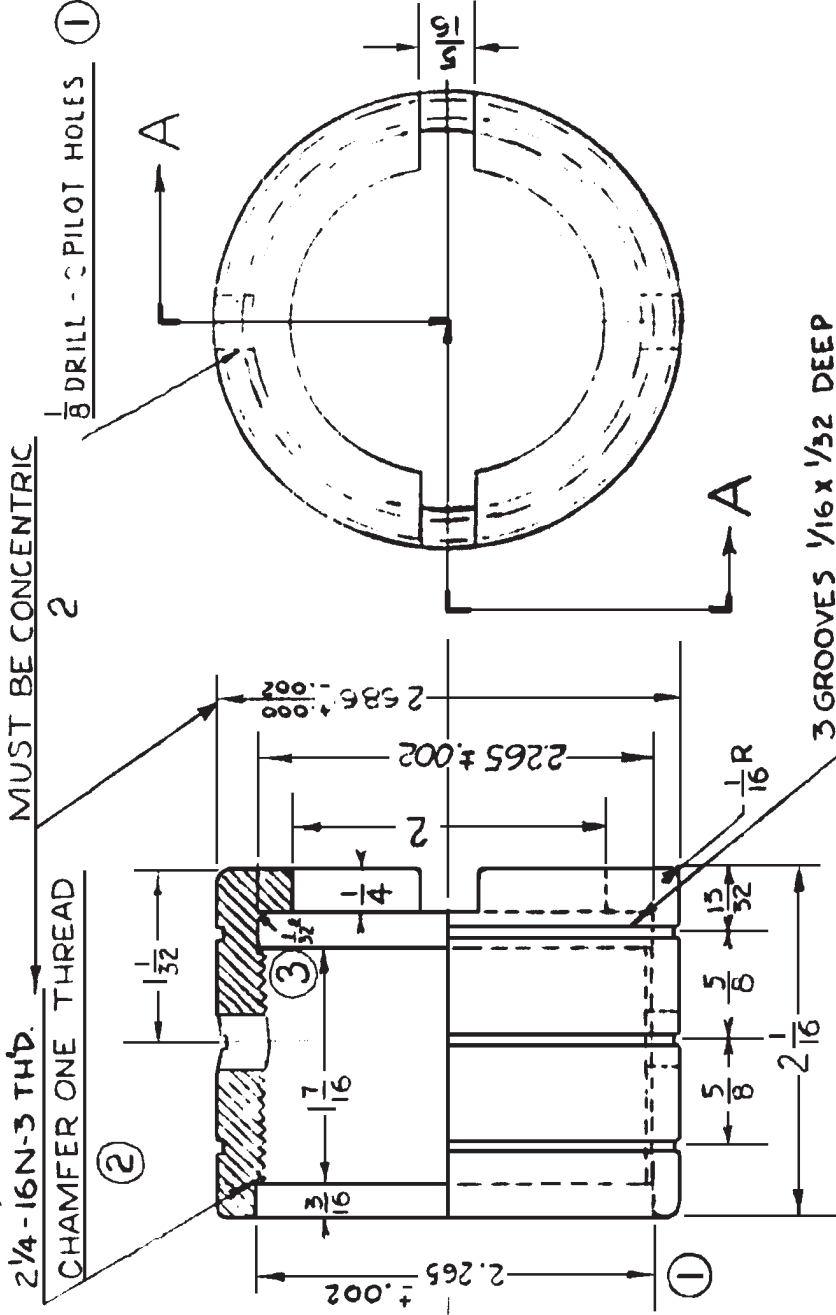
1	310909-2	ASSEM.	214439-1	TUBE	NAME	1/2 ODX.065X19	STEEL	44T18	—	—	—	1.58	
NO. REQ.		PART NO.		DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010, ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.		STOCK		MATERIAL SPEC.		HT. T.		U.T.S. FINISH EST. WT. ACT. WT.	
<p>ALTERNATIONS</p> <p>① 10-8-40 B/M CHANGED TUBE LENGTH WAS 1.695" (1.6" WAS I.C.)</p> <p>② 2-5-41 TUBE LENGTH WAS 1.6" (1.5" WAS I.C.)</p> <p>③ 4 WELDING HOLES WAS EACH END WAS 1/8" DIA. WAS 1/8" DIA.</p>													
N3N-3				DRAWN TRACED				CHECKED				LOMAS 8-13-40	
				SUPERVISOR				STRUCTURE				8-29-40	
				CHIEF DRAFT.				CHIEF DRAFT.				5-30-40	
				PROJ. ENG.				PROJ. ENG.				9-3-40	
				ASST. CHY. ENG.				ASST. CHY. ENG.				9-5-40	
				APPROVAL				APPROVAL					
TUBE						LANDING GEAR - SHOCK STRUT - PLUNGER							
SUPERSEDED BY						SUPERSEDED							
SCALE						HALF SIZE							
REF. DRAWING NO.						214439							
NAVY YARD						PHILADELPHIA							

214440

- ① BUFF
- ② HARD FINISH
- ③ SMOOTH MACH.
- ④ ROUGH MACH.
- ⑤ BRASS FILE OR GRIND
- ⑥ SAND BLAST
- ⑦ REMOVE FINS AND SPRUES.
- ⑧ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.

BREAK SHARP EDGES - 1/64"

NOTE:-
SPEC. QQ-B721 CLASS B
FORGING-SOFT



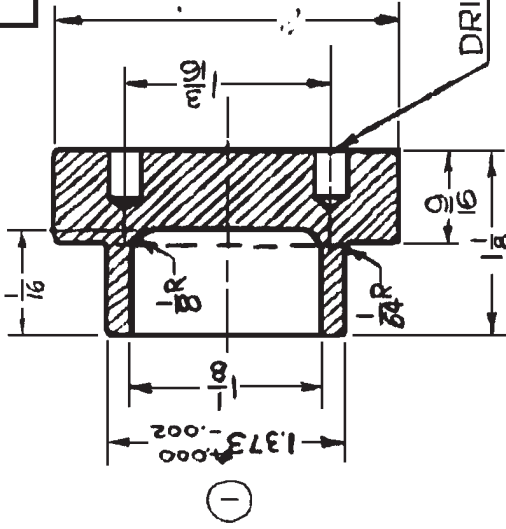
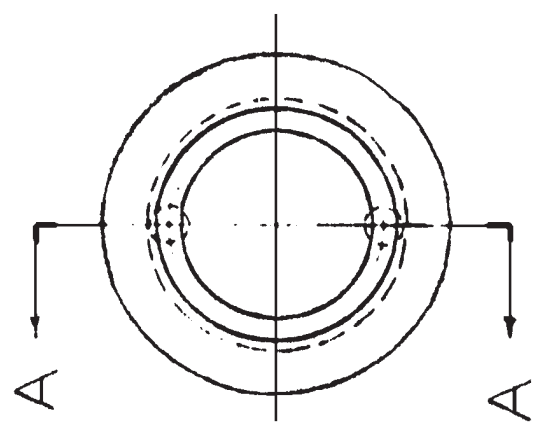
SECTION A-A

①	NO. REQ.	1	ASSEM.	68374-3	PART NO.	214440-1	NAME	HEAD	STOCK	2 3/4 DIA X 2 1/16	Bronze	MATERIAL	85000	HT. T.	1/16 IN.	FINISH	1-96	EST. WT. ACT. WT																
<p>DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2° UNLESS OTHERWISE NOTED.</p> <table border="1"> <tr> <td>①</td> <td>10-11-40</td> <td>ALTERNATIONS</td> <td>DESIGNED FOR</td> </tr> <tr> <td>②</td> <td>2-6-41</td> <td>CHAMFER ONE THREAD & MUST BE CON-CENTRIC; ADDED. KAD</td> <td>LOMAS</td> </tr> <tr> <td>③</td> <td>2-15-41</td> <td>UNDERCUT TO ROOT OF THREAD FOR CLEAR DIM. WAS 2 7/8 VAC.</td> <td>8-12-40</td> </tr> <tr> <td>④</td> <td>10-30-41</td> <td>2 1/4 DIA X 2 1/16 WAS 2 1/4 DIA X 2 1/16 WAS 2 1/4 DIA X 2 1/16</td> <td>8-30-40</td> </tr> </table>																			①	10-11-40	ALTERNATIONS	DESIGNED FOR	②	2-6-41	CHAMFER ONE THREAD & MUST BE CON-CENTRIC; ADDED. KAD	LOMAS	③	2-15-41	UNDERCUT TO ROOT OF THREAD FOR CLEAR DIM. WAS 2 7/8 VAC.	8-12-40	④	10-30-41	2 1/4 DIA X 2 1/16 WAS 2 1/4 DIA X 2 1/16 WAS 2 1/4 DIA X 2 1/16	8-30-40
①	10-11-40	ALTERNATIONS	DESIGNED FOR																															
②	2-6-41	CHAMFER ONE THREAD & MUST BE CON-CENTRIC; ADDED. KAD	LOMAS																															
③	2-15-41	UNDERCUT TO ROOT OF THREAD FOR CLEAR DIM. WAS 2 7/8 VAC.	8-12-40																															
④	10-30-41	2 1/4 DIA X 2 1/16 WAS 2 1/4 DIA X 2 1/16 WAS 2 1/4 DIA X 2 1/16	8-30-40																															
<p>① 1/8 DRILL - 2 PILOT HOLES ①</p> <p>MUST BE CONCENTRIC 2</p> <p>2 1/4 - 16N-3 THD. CHAMFER ONE THREAD ②</p> <p>3 GROOVES 1/16 x 1/32 DEEP</p>																																		
<p>① BUFF</p> <p>② HARD FINISH</p> <p>③ SMOOTH MACH.</p> <p>④ ROUGH MACH.</p> <p>⑤ BRASS FILE OR GRIND</p> <p>⑥ SAND BLAST</p> <p>⑦ REMOVE FINS AND SPRUES.</p> <p>⑧ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.</p>																																		
<p>BREAK SHARP EDGES - 1/64"</p>																																		
<p>NOTE:- SPEC. QQ-B721 CLASS B FORGING-SOFT</p>																																		
<p>SECTION A-A</p>																																		
<p>HEAD</p> <p>LANDING GEAR - SHOCK STRUT - PISTON</p> <p>SUPERSEDED BY</p> <p>SCALE</p> <p>FULL SIZE</p> <p>REF. DRAWING NO.</p> <p>214440</p> <p>NAVAL AIRCRAFT FACTORY PHILADELPHIA</p>																																		

Ind. 7/6/40

214441

- ① BUFF
- ② HAND FINISH
- ③ SMOOTH BLAST
- ④ ROUGH BLAST
- ⑤ BRASS FILE ON GROOVE
- ⑥ SAND BLAST
- ⑦ REMOVE FINS AND SPRUES
- ⑧ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED



SECTION A-A

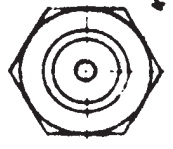
①	310909-2	214441-1	TERMINAL	2. DIA \times 1/8	STEEL	6523	—	—	.55
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH
DESIGNED FOR				DIMENSIONS ARE IN INCHES. LIMITS \pm 1/64 DECIMALS \pm .010, ANGLES \pm 1/4°, UNLESS OTHERWISE NOTED.					
GROOVE & METERING PIN				BEIL 8-13-40					
HOLE REMOVED, STOCK				CHECKED <i>W.P. Smith</i> 8-29-40					
SIZE WAS 1/4 x 1/4				SUPERVISOR <i>L.P. Smith</i> 8-30-40					
PART DIA. CHANGED				STRUCTURE					
10-9-40				CHIEF DRAFT <i>Trinity</i> 8-30-40					
2-5-41				PROJ. ENG. <i>Trinity</i> 9-3-40					
ALTERNATIONS				ASST. CHIEF ENG. <i>Barnaby</i> 9-5-40					
APPROVAL				APPROVAL					
SUPERSEDED BY				TERMINAL (LOWER)					
SCALE				LANDING GEAR-SHOCK STRUT-FLUNGER					
FULL SIZE				SUPERSEDED					
REF. DRAWING NO.				214441					
NAVY YARD				NAVAL AIRCRAFT FACTORY PHILADELPHIA					

214442

NOTE :
POLISH ALL SURFACES EXCEPT
THREAD AND HEX

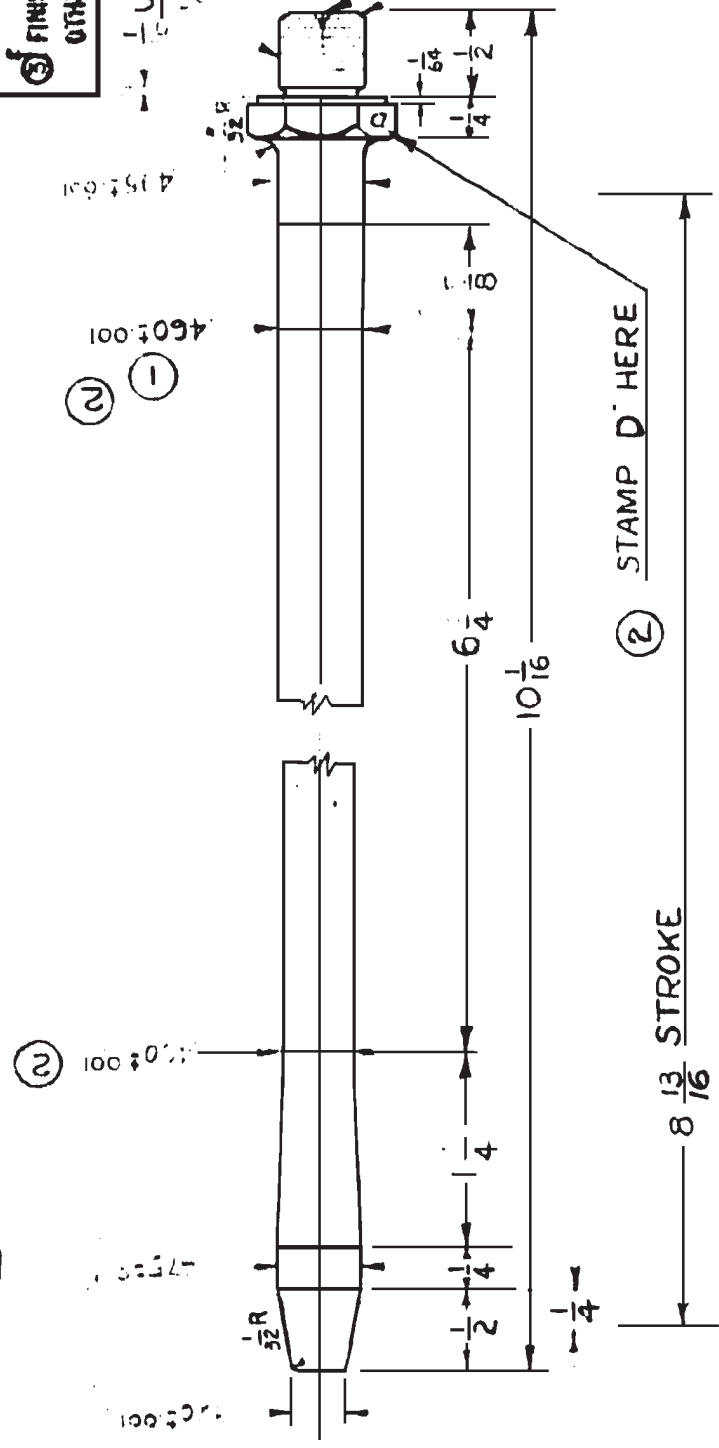
- ① BUFF
- ② HAND FINISH
- ③ SMOOTH MACH.
- ④ REMOVE FINIS AND SPRUES
- ⑤ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.

① UNDERCUT TO ROOT OF THDS
1/2-20 UNF-3 THDS



SMALL CENTER MARKS
PERMISSIBLE

CHAMFER 45° ± 3/64



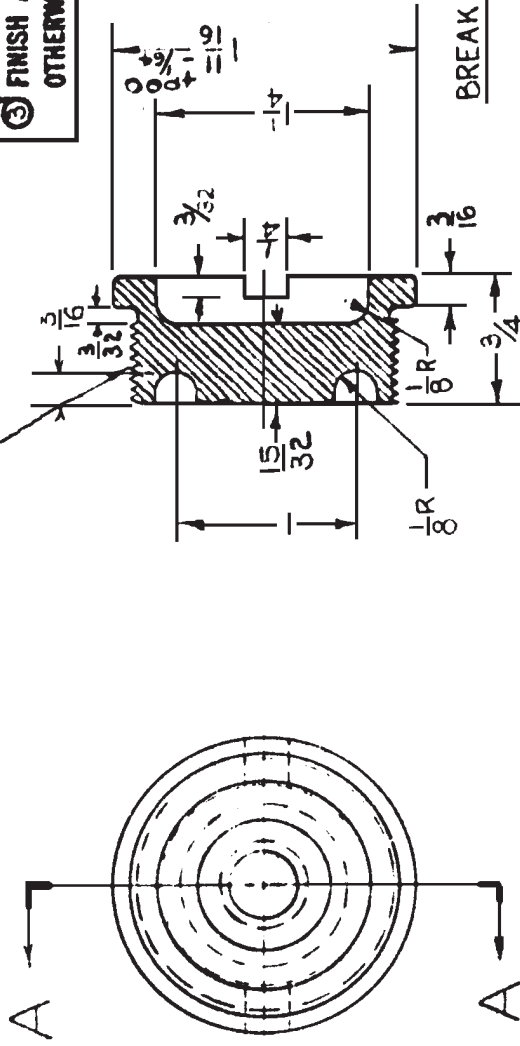
NO. REQ.	68374-5	214442-1	PIN	NAME	3/4 HEX x 10 1/16	STEEL	46521 PH-5	125,000	NOTE 1
ASSEM.				STOCK		MATERIAL	SPEC.	HT. T.	U.T.S. FINISH
									EST. WT. ACT. WT.
<p>N3N-3 ← DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.</p>									
<p>ALTERATIONS</p>									
<p>① 10-10-40 <i>Brk</i> THIS WAS 10.435 ± .005 1/2 UNDERCUT TO ROOT OF THDS WAS .475 ± .005 462 ± .001 WAS .475 ± .005</p>									
<p>② 2-7-41 <i>Brk</i> DIM. ADDED STAMP "D" & STROKE K.A.C. 460 ± .001 WAS .462 ± .001 400 ± .001 WAS .403 ± .001</p>									
DRAWN TRACED		BEIL		8-14-40					
CHECKED		<i>Blair</i>		<i>8-19-40</i>					
SUPERVISOR		<i>L. J. Blach</i>		9-5-40					
STRUCTURE									
CHIEF DRAFT.		<i>W. J. Blach</i>		9-6-40					
PROJ. ENG.		<i>W. J. Blach</i>		9-6-40					
ASST. CHIEF ENG.		<i>W. J. Blach</i>		9-6-40					
APPROVAL		<i>W. J. Blach</i>		9-6-40					
PIN						LANDING GEAR - SHOCK STRUT-METERING			
SUPERSEDED BY						SUPERSEDES			
SCALE						FULL SIZE			
REF. DRAWING NO.						214442			
NAVY YARD						NAVAL AIRCRAFT FACTORY PHILADELPHIA			

10/19/40

214443

- ① BUFF
- ② HAND FINISH
- ③ SCOTCH BLAST
- ④ ROUGH MACH.
- ⑤ BRASS FILE OR BRIM
- ⑥ SAND BLAST
- ⑦ REMOVE FINS AND SPRUES.
- ⑧ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.

$\frac{1}{16}$ -16N-3 THD.



SECTION A-A

1	310593-2	214443-1	PLUG	NAME	1 3/4 DIA X 3/4	STEEL	40 CR A 52 B	PH5-10	125,000	40
NO. REQ.	ASSEM.	PART NO.	DESIGNED FOR	DRAWN TRACED	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH EST. WT. ACT. WT
N3N-3			←	BEIL	8-12-40	DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.				
			ALTERATIONS	CHECKED	8-29-40	PLUG				
			① 10-10-40	SUPERVISOR	8-30-40	LANDING GEAR-SHOCK STRUT-PISTON				
			② 2-6-41	STRUCTURE		SUPERSEDED BY				
			1 1/16 WAS 12/32	CHIEF DRAFT.	5-30-40	SCALE				
			3/16 WAS 11/64	PROJ. ENG.	3-8-40	FULL SIZE				
			ASSEM. WAS 683743VAC & FINISH REMOVED.	ASST. CHY. ENG.	9-5-40	NAVY YARD				
			SPTFACE, INSIDE THREAD.	APPROVAL		NAVAL AIRCRAFT FACTORY PHILADELPHIA				
						REF. DRAWING NO.				
						214443				

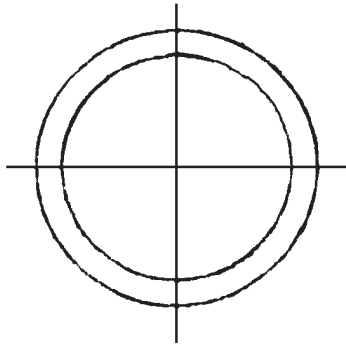
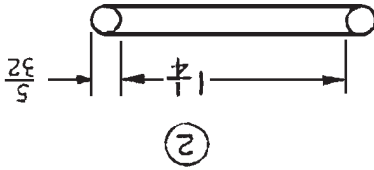
9/6/40

214444

Ed. 1/1/40.

NOTE

MATERIAL SHALL BE IMPERVIOUS TO
 MINERAL OILS OR A FLUID MIXTURE
 OF BUTYL OR DIACETONE ALCOHOL
 AND CASTOR OIL. THE INSIDE SHALL
 BE CAPABLE OF STRETCHING OVER
 1 3/4 DIA. WITHOUT PERMANENT SET.
 MATERIAL HARDNESS .85 DUROMETER.



①	1	310909-1	214444-1	SEAL	MOLDED	SEE NOTE				.03
	NO. REQ.	ASEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S. #/SQ.IN.	FINISH EST. WT. ACT. WT
	N3N-3		←DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS: ±.010. ANGLES ±1/2°, UNLESS OTHERWISE NOTED.					
				DRAWN TRACED	LOMAS	8-27-40	SEAL			
				CHECKED	T.B. Lomlin	8-29-40				
				SUPERVISOR	W.L. Fisher	9-5-40	LANDING GEAR - SHOCK STRUT PACKING			
				STRUCTURE			SUPERSEDED BY			
				CHIEF DRAFT.	J. ...	9/6/40	SCALE			
				PROJ. ENG.	W. ...	9/6/40	FULL SIZE			
				ASST. CHIEF ENG.	Barnaby	9-6-40	REF. DRAWING NO.			
				APPROVAL			214444			
							NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA			

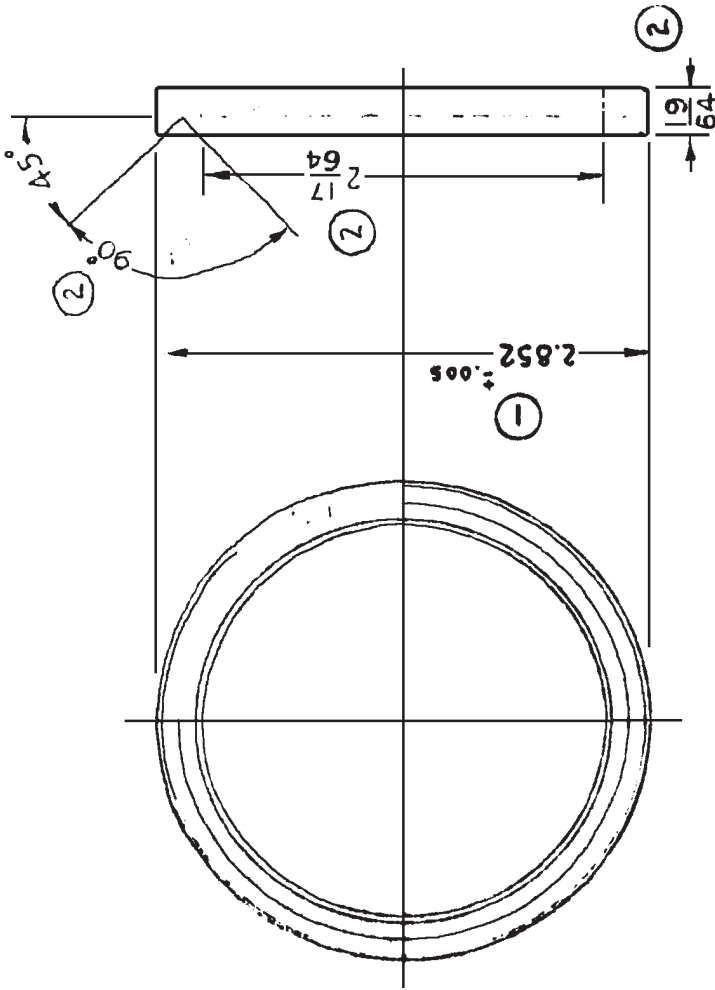
ALTERNATIONS

① 10-9-40
 310909-1 WAS ASSEMBLED INTO
 1-23-41
 WAS 1 1/4" INSIDE DIMENSION

214445

- ① BUFF
- ② HAND FINISH
- ③ SMOOTH BLAST
- ④ ROUGH MACH.
- ⑤ DONOT FILE OR GRIND
- ⑥ SAND BLAST
- ⑦ REMOVE FINS AND SPRUES
- ⑧ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.

BREAK SHARP EDGES - 1/64 R

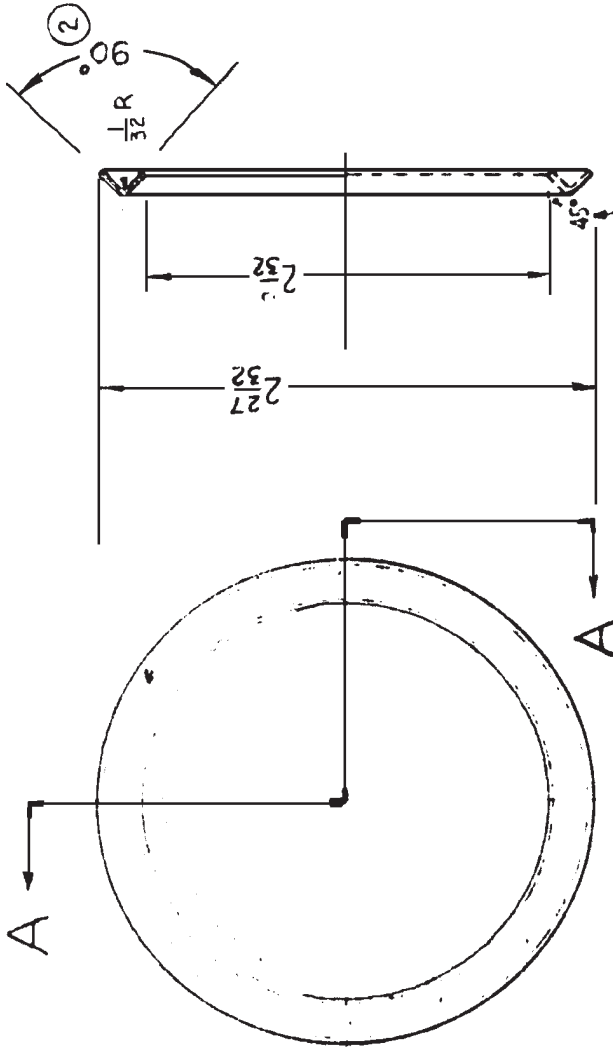


② ①	NO. REQ.	1	68374	ASSEM.	214445-1	ADAPTOR	NAME	STOCK	2 7/8 OD x 1 9/64	MATERIAL	AL ALLOY 46A9	SPEC.	SR53	62,000	HT. T.	U.T.S. #/SQ. IN.	FINISH	SR-19	EST. WT. ACT. WT.
DESIGNED FOR										DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.									
ALTERNATIONS										LOMAS 8-27-40 Checked 8-29-40 SUPERVISOR LGL STRUCTURE CHIEF DRAFT. 8-30-40 PROJ. ENG. 7-3-40 ASST. CHIEF. ENG. 9-5-40 APPROVAL									
① 10-10-40										DIMENSION 90° ADDED, 2/6 & 1/8 REMOVED, 1/64 WAS 3/32									
② 12-12-40										2.852 ± .005 WAS 2.732 1.17 WAS ASSEMBLED W/TO 68374-1									
③ 8-27-40										ADAPTOR LANDING GEAR SHOCK STRUT PACKING - BOTTOM									
SUPERSEDED BY										SUPERSEDES									
SCALE										214445									
FULL SIZE										REF. DRAWING NO.									
NAVAL AIRCRAFT FACTORY										PHILADELPHIA									

9/6/40

214446

- ① BUFF
- ② HAND FINISH
- ③ SMOOTH BLAST
- ④ ROUGH MACH.
- ⑤ BRASS FILE OR BRID
- ⑥ SAND BLAST
- ⑦ REMOVE FINNS AND SPRUES.
- ⑧ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.



SECTION A-A

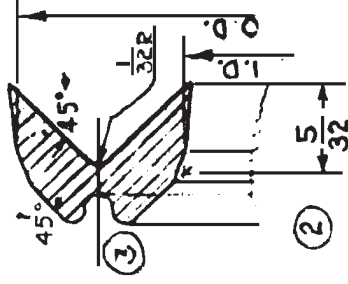
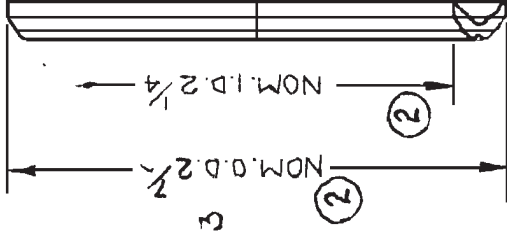
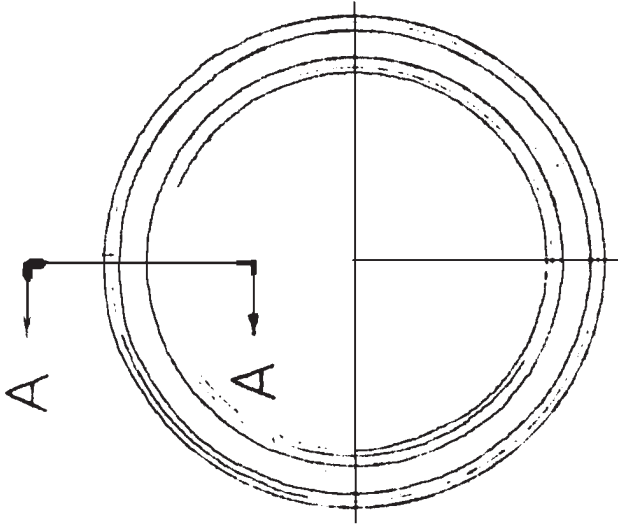
①	2	68374-3	214446-1	SEPARATOR	.032 x 3 1/16 DIA	AL ALLOY	47A-10 COND T	SR-53	62,000	SR-19	.009
NO. REQ.		ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT. ACT. WT
N3N-3									1/SQ. IN.		
DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.									
ALTERNATIONS		① 10-10-40 <i>Revised</i> ② 12-12-40 <i>Revised</i> DIM. Y ₈ REMOVED 90° ADDED 1 WAS ASSEMBLED INTO 68374-13 R.S.									
DRAWN TRACED		LOMAS	8-27-40								
CHECKED		<i>W. J. Lambert</i>	8-29-40								
SUPERVISOR		<i>L. J. ...</i>	8-30-40								
STRUCTURE											
CHIEF DRAFT.		<i>Dehling</i>	9-20-40								
PROJ. ENG.		<i>Harris</i>	9-3-40								
ASST. CH'Y. ENG.		<i>Barnaby</i>	9-5-40								
APPROVAL											
SEPARATOR				LANDING GEAR - SHOCK STRUT PACKING							
SUPERSEDED BY				SUPERSEDES							
SCALE				FULL SIZE							
REF. DRAWING NO.				214446							
NAVY YARD				NAVAL AIRCRAFT FACTORY PHILADELPHIA							

Encl. 9/6/40.

214451

NOTE:

MATERIAL SHALL BE IMPERVIOUS TO
MINERAL OILS OR A FLUID MIXTURE
OF BUTYL OR DIACETONE ALCOHOL
AND CASTOR OIL AND SIMILAR OR
EQUIV. TO LINEAR " 7536-4-32 M'F'D
BY LINEAR PACKING AND RUBBER CO.,
PHILA., PA.

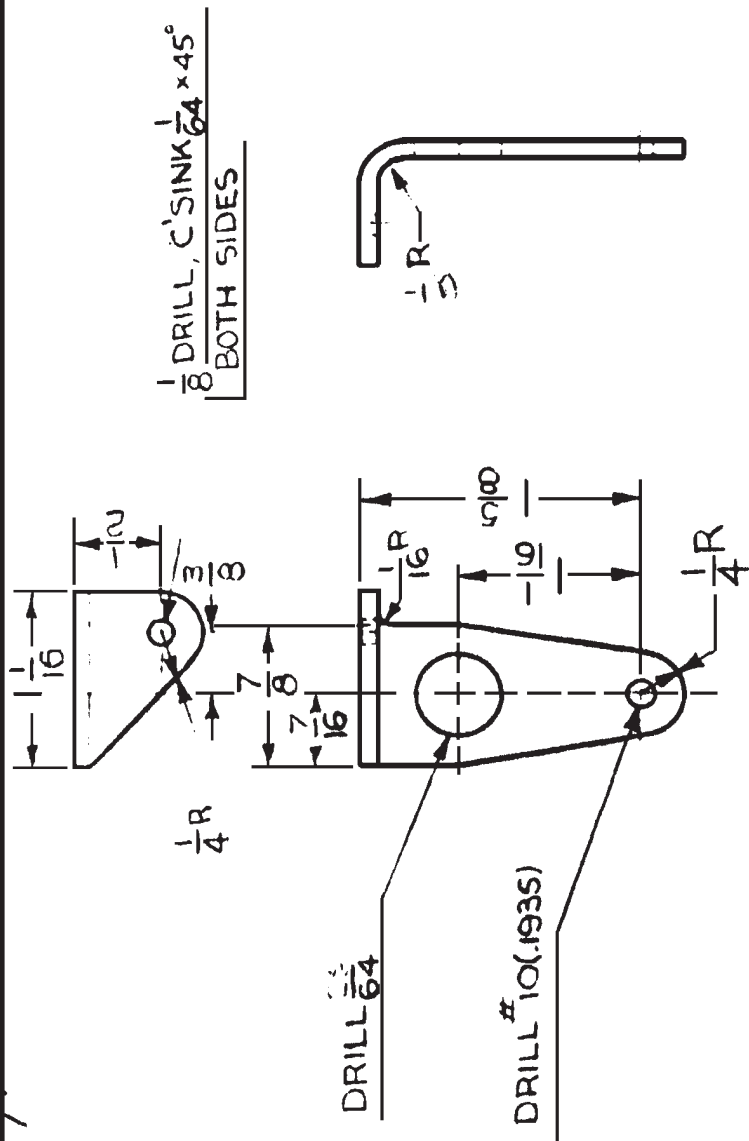


SECTION AA

①	3	6837	214451-1	RING	MOLDED	SEE NOTE															
	NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.									
	N3N-3			DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.																	
	← DESIGNED FOR →																				
	① 10-9-40 ② 12-12-40 ③ 2-11-41																				
ALTERNATIONS																					
2875 1.00 WAS 2 7/8 2.248 +.000 WAS 2 1/4 5/32 ADDED RBC 12-12-40 1-ASSEMBLES INTO 68374:56 WAS 68374:4 10. 6.0.0. ADDED TO SECT. 10-9-40 2-11-41																					
DRAWN TRACED LOMAS 8-27-40 CHECKED P. Lombard 8-29-40 SUPERVISOR L. L. P. L. 9-5-40 STRUCTURE CHIEF DRAFT. K. A. 9/6/40 PROJ. ENG. H. H. 9/7/40 ASST. CHY. ENG. B. B. 9-7-40 APPROVAL																					
SUPERSEDED BY SCALE FULL SIZE REF. DRAWING NO. NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA																					

214453

NOTE: JIG DRILL ALL HOLES.



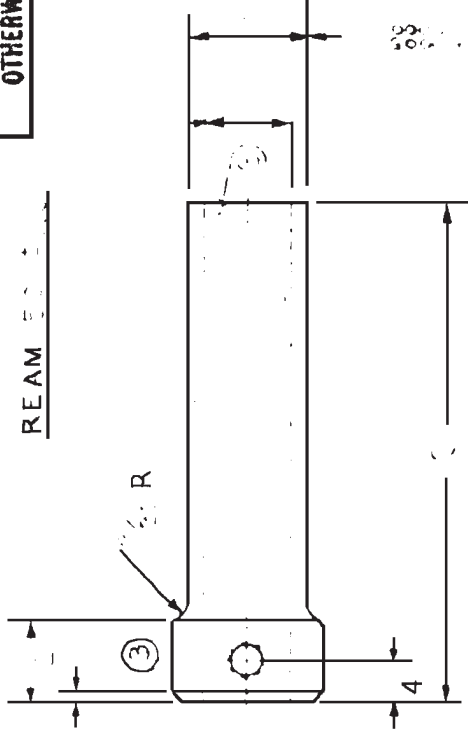
-1LH.
-2RH.

1 47514-1 214453-2 ANGLE - R.H .083x1/4x3 STEEL 47514 PH510125,000

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
1	47514-1	214453-1	ANGLE - L.H	.083x1/4x3	STEEL	47514	PH5-10125,000				
<p>N3N-3 ←DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/4 DECIMALS ± .010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.</p>											
<p>ALTERATIONS</p>											
DRAWN				V. MECCA 10-7-40							
CHECKED				D. G. [Signature] 10-7-40							
SUPERVISOR				[Signature] 10-10-40							
STRUCTURE				M. S. ROTA 10-11-40							
CHIEF DRAFT.				[Signature] 10-14-40							
PROJ. ENG.				[Signature] 10-14-40							
ASST. CH'F. ENG.				[Signature] 10-14-40							
APPROVAL											
										SUPERSEDED BY	
										SCALE	
										FULL SIZE	
										REF. DRAWING NO.	
										214453	
										SUPERSEDED	
<p>NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA</p>											

214455

- ① BUFF
- ② HAND FINISH
- ③ REMOVE BLAG
- ④ ROUGH MACH.
- ⑤ REMOVE FILE OR GRIND
- ⑥ SAND BLAST
- ⑦ REMOVE FILMS AND SPRUES
- ⑧ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.



BREAK SHARP CORNERS

DRILL TO SIZE
BEFORE ASSEMBLY
TAP #10-32 NF-2 TH'D

NO. REQ.	47516-1	214455-1	REAR WHEEL LOCK	7/8 DIA. 1/3	STEEL	1/8" GR.A	—	—	—	.3
ASSEM.					MATERIAL	SPEC.	HT. T.	U.T.S. #/SQ. IN.	FINISH	EST. WT. ACT. WT.
←DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2° UNLESS OTHERWISE NOTED.										
ALTERNATIONS										
DRAWN		JOBSON		10-4-40						
TRACED										
CHECKED		DeLambert		10-4-40						
SUPERVISOR		Chalmers		10-10-40						
STRUCTURE		M.S. ROTH		10-11-40						
CHIEF DRAFT.		M. H. B.		10-14-40						
PROJ. ENG.		H. H. B.		10-14-40						
ASST. CH'F. ENG.		B. B. B.		10-14-40						
APPROVAL										
HOUSING						TAIL WHEEL LOCK — DETAIL				
SUPERSEDED BY						SUPERSEDES				
SCALE						FULL SIZE				
REF. DRAWING NO.						214455				
NAVY YARD						NAVAL AIRCRAFT FACTORY PHILADELPHIA				

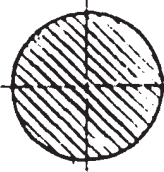
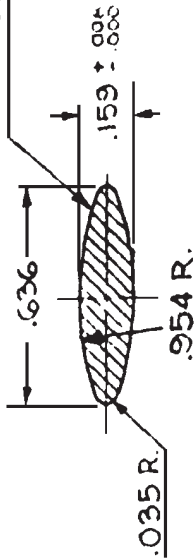
214463

Rev. 10/30/40

NOTES:-

- 1. TIE ROD IS TO BE MADE OF CORROSION RESISTING STEEL AND MANUFACTURED IN ACCORDANCE WITH SPEC. 49 T 9, FINISH: POLISH & PASSIVATE.
- 2. TIE ROD TO BE FURNISHED WITH TERMINALS AN G65-115 L & AN G65-115 R AND NUTS AN 315-7 L & AN 315-7 R.

AREA = .0781 ± .0008

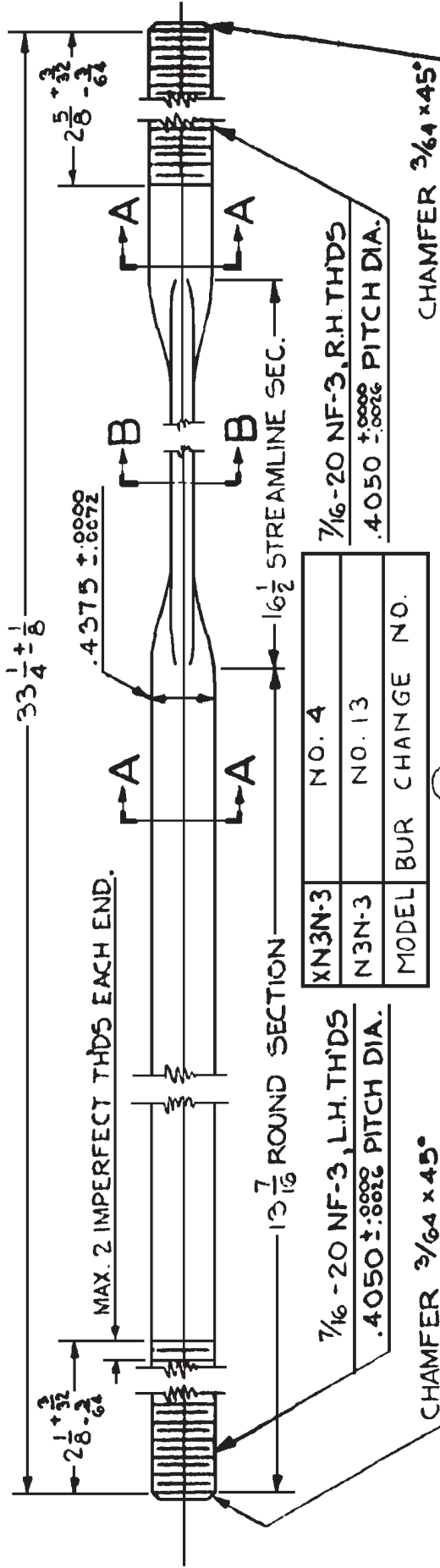


SEC. B-B

DOUBLE SIZE

SEC. A-A

DOUBLE SIZE



XN3N-3	NO. 4
N3N-3	NO. 13
MODEL	BUR CHANGE NO.

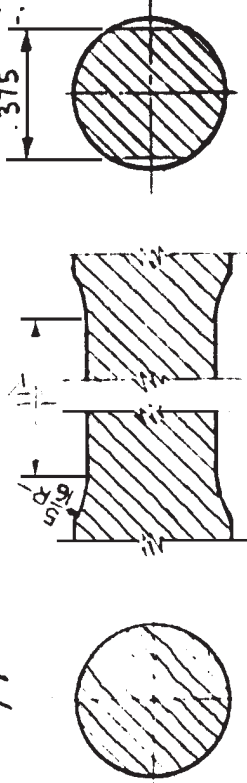
2	214463-1	TIE ROD	SEE NOTE #1								
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
N3N-3											
←DESIGNED FOR				DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.							
ALTERNATIONS											
①				JOBSON 10-22-40 CHECKED 8/3/40 SUPERVISOR 10/23/40 STRUCTURE 10/23/40 CHIEF DRAFT 10/24/40 PROJ. ENG. 10/24/40 INST. CITY ENG. 10/24/40 APPROVAL							
ADD'D P.C.P. BLOK P.C.P. NOS. 13 AND 4											
3-29-41 10-29-40											
				SCALE FULL SIZE & AS NOTED REF. DRAWING NO.							
				SUPERSEDED BY TIE ROD - 7/16 DIA. 20 THDS - (13,700) LANDING GEAR - STREAMLINE							
				214463 NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA							

214469

C. 2. 11/4/40.

NOTES:-

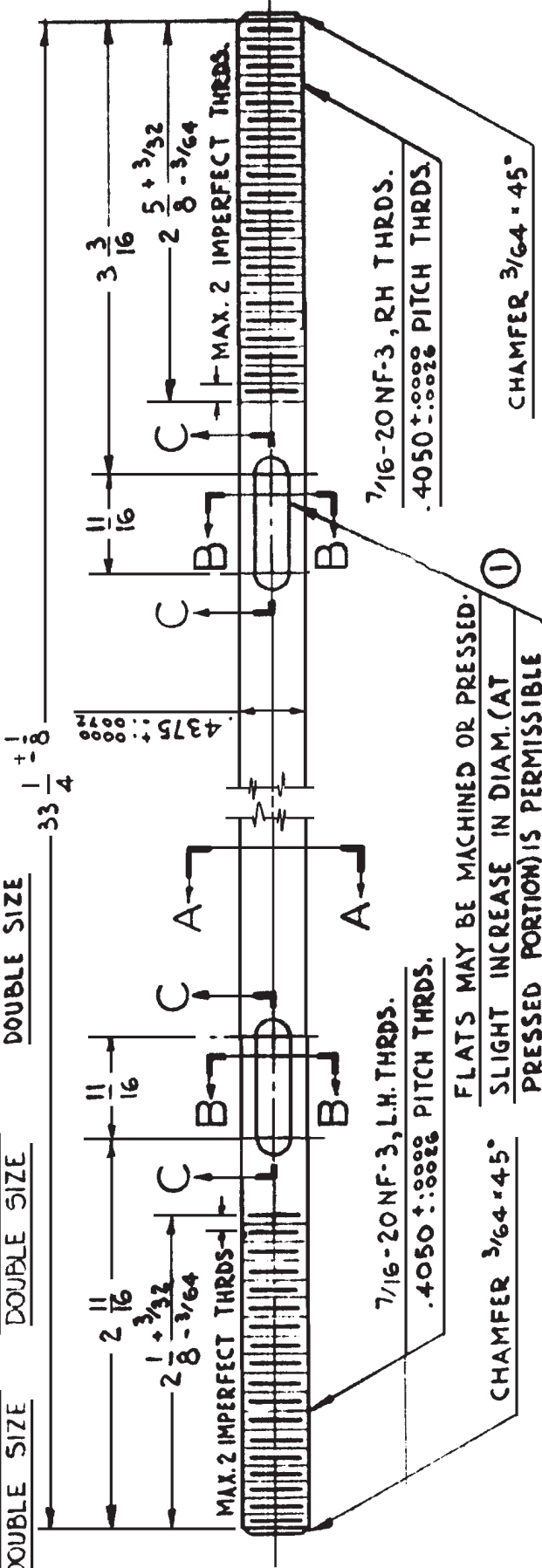
1. TIE ROD IS TO BE MADE IN ACCORDANCE WITH U.S. ARMY SPEC. 29-61, TYPE 1, #1050 STEEL EXCEPT THAT DETAIL OF WIRE SHALL BE AS SHOWN ON THIS DWG. MINIMUM ULTIMATE STRENGTH SHALL BE 137,000 LBS.
2. TIE ROD TO BE FURNISHED WITH TERMINALS AN665-115L, AN665-115R & NUTS AN315-7L, AN315-7R.



SEC. A-A
DOUBLE SIZE

SEC. C-C
DOUBLE SIZE

SEC. B-B
DOUBLE SIZE



FLATS MAY BE MACHINED OR PRESSED.
SLIGHT INCREASE IN DIAM. (AT
PRESSED PORTION) IS PERMISSIBLE

CHAMFER $\frac{3}{64} \times 45^\circ$

$\frac{7}{16}$ -20NF-3, L.H. THRS.
.4050 \pm .0002 PITCH THRS.

$\frac{7}{16}$ -20NF-3, RH THRS.
.4050 \pm .0002 PITCH THRS.

CHAMFER $\frac{3}{64} \times 45^\circ$

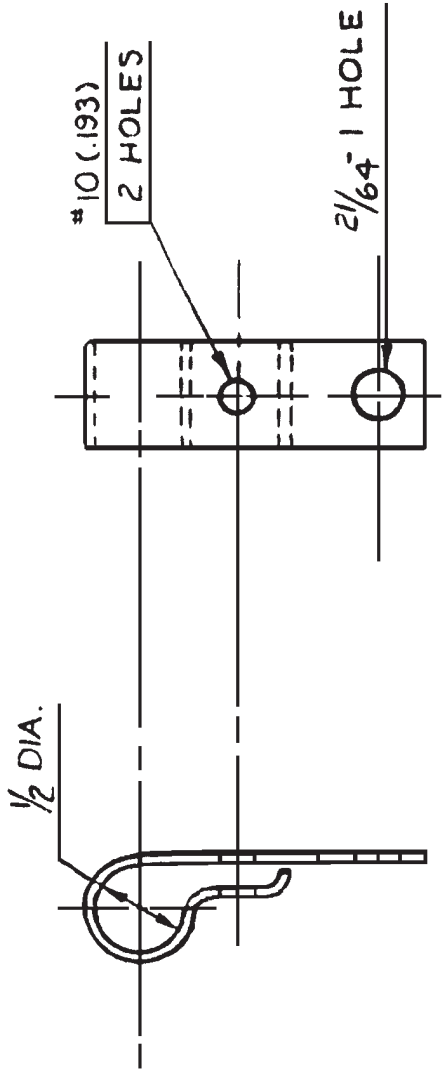
NO. REQ.	2	ASSEM.	TIE ROD	STOCK	SEE NOTE #1 & #2	MATERIAL SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS $\pm \frac{1}{64}$ DECIMALS $\pm .010$, ANGLES $\pm \frac{1}{2}^\circ$, UNLESS OTHERWISE NOTED.									
PART NO.		TIE ROD — LANDING GEAR									
ASSEMBLY		$\frac{7}{16}$ DIA - 20 THRS (13700#) — ROUND									
SUPERVISOR		SUPERSEDED BY									
STRUCTURE		SCALE									
CHIEF DRAFT.		FULL SIZE & AS NOTED									
PROJ. ENG.		REF. DRAWING NO.									
ASST. CH'F. ENG.		214469									
APPROVAL		NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA									

214488

42 : 28/21

NOTE:

- ① ⊥ MAKE FROM BLANK A-310755 -48A-516



NO. REQ.	ASSEM.	PART NO.	CLAMP	AS REQ'D	ALUM. AL. 3048 SANDY	62000	HT. T.	U.T.S. #/SQ. IN.	FINISH	EST. WT./ACT. WT.
ANY MODEL			DESIGNED FOR	STOCK	MATERIAL SPEC.	62000	HT. T.	U.T.S. #/SQ. IN.	FINISH	EST. WT./ACT. WT.
ALTERNATIONS			DRAWN TRACED	PARTISAN	1-9-41	DIMENSIONS ARE IN INCHES, LIMITS ± 1/64 DECIMALS ± .010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.				
CHANGED NOTE TO			CHECKED	<i>[Signature]</i>	1-28-41	CLAMP-TUBE LOOP TYPE				
48A-516			SUPERVISOR	STRUCTURE		SUPERSEDED BY				
5-3-48			CHIEF DRAFT.	PROJ. ENG.		SCALE				
5-3-48			ASST. CNF. ENG.	APPROVAL		FULL				
①			NAVAL AIRCRAFT FACTORY		PHILADELPHIA					
214488			NAVAL AIRCRAFT FACTORY		PHILADELPHIA					

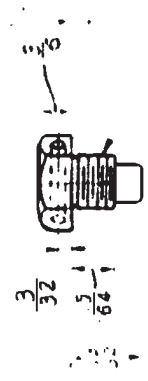
1.2.9/17/41

214709

$\frac{1}{16}$ TO DRILL



$\frac{1}{2}$ HEX.



$\frac{1}{32}$ UNDERCUT TO
ROOT OF THREAD

.234 ± .008 DIA.

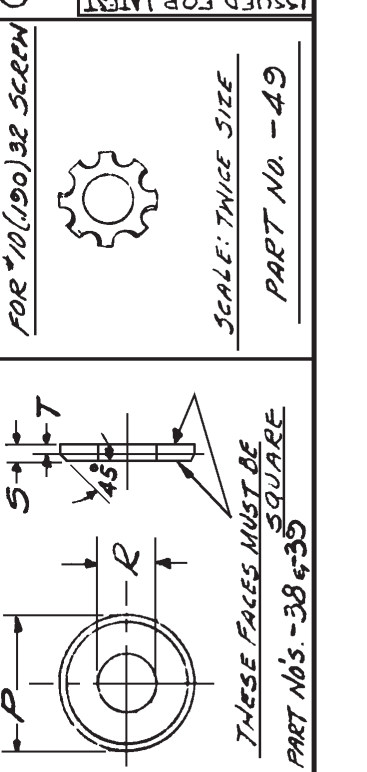
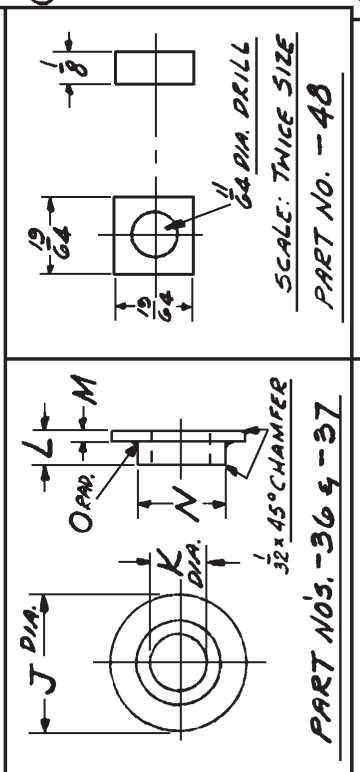
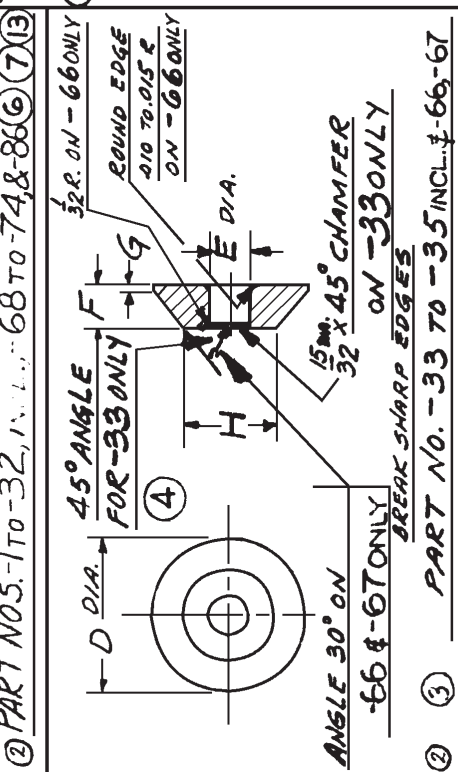
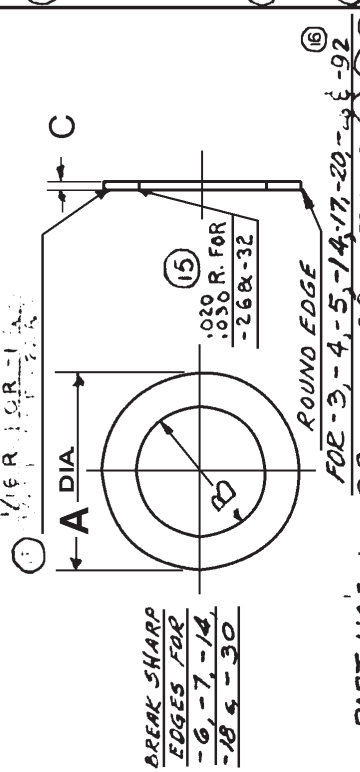
THREAD $\frac{5}{16}$ - 24NF-3

1	58374-1 58374-2	214709-1	BOLT	$\frac{1}{2}$ HEX. x $\frac{3}{4}$	STEEL	46523 PH5-10	125.000	AN-99 P-421
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH
N3N-3			DIMENSIONS ARE IN INCHES. LIMITS ± .010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.					
DESIGNED FOR			J. H. HAYDEN 9-19-41					
DRAWN			TRACED					
CHECKED			L. G. Lichtenhan 9/17/41					
SUPERVISOR			R. A. ... 9/16/41					
STRUCTURE			...					
CHIEF DRAFT			... 9/16/41					
PROJ. ENG.			... 9/15/41					
ASST. CHIEF ENG.			... 9-15-41					
APPROVAL			...					
ALTERNATIONS			...					
SUPERSEDED BY			SUPERSEDED					
SCALE			FULL SIZE					
REF. DRAWING NO.			214709					
NAVY YARD			NAVAL AIRCRAFT FACTORY PHILADELPHIA					

98E01E

NOTE:

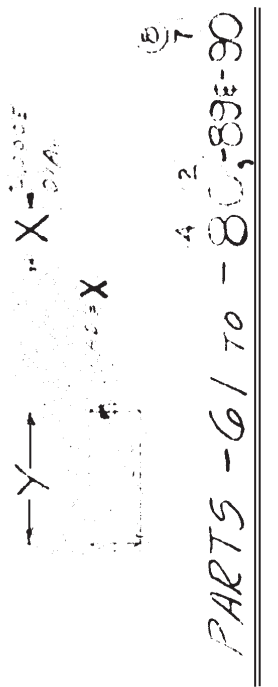
FOR MATERIAL, HEAT TREAT AND FINISH
SEE SHEET 7 OF 9
SEE SHEET 8 OF 9



QTY	DESCRIPTION	MATERIAL	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
1	WASHER	STEEL					
...

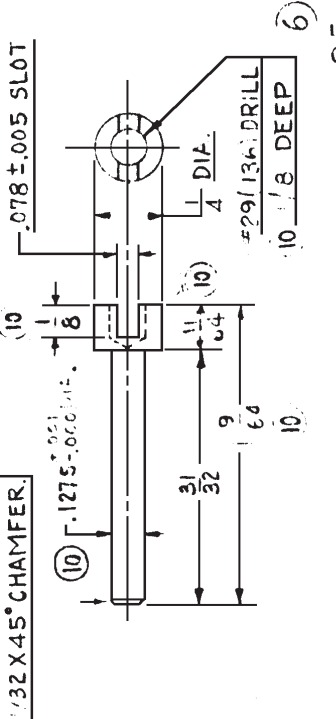
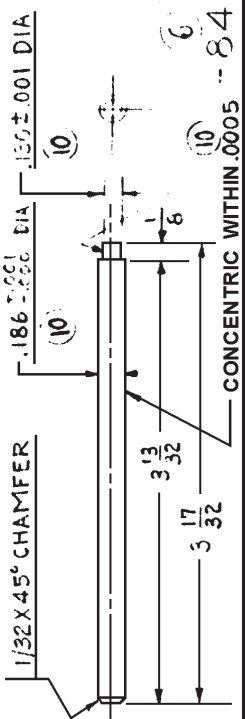
QTY	DESCRIPTION	MATERIAL	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
...

310532



PARTS - 61 TO - 80, 83E-90

NO. REQ.	ASSEM.	PART NO.	NAME	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
		310532-94	PINS	STEEL	46540				
		-93		STEEL	46540				
		-92		STEEL	46540				
		-91		BRASS	4686				
		-90		DRILL ROD	46540				
		-89		DRILL ROD	46540				
		-88		DRILL ROD	46540				
		-87		MICHEL	4653				
		-86		STEEL	46540				
		-85		STEEL	46540				
		-84		STEEL	46540				
		-83		STEEL	46540				
		-82		STEEL	46540				
		-81		STEEL	46540				
		-80		STEEL	46540				
		-79		STEEL	46540				
		-78		BRASS	4686				
		-77		STEEL	46540				
		-76		STEEL	46540				
		-75		STEEL	46540				
		-74		STEEL	46540				
		-73		STEEL	46540				
		-72		BRASS	4686				
		-71		STEEL	46540				
		-70		STEEL	46540				
		-69		STEEL	46540				
		-68		STEEL	46540				
		-67		BRASS	4686				
		-66		STEEL	46540				
		-65		STEEL	46540				
		-64		STEEL	46540				
		-63		STEEL	46540				
		-62		BRASS	4686				
		310532-61	PINS - DOWEL	STEEL	46540, CL. C-6				



NO. REQ.	ASSEM.	PART NO.	NAME	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
		310532-61	PINS - DOWEL	STEEL	46540, CL. C-6				
		-93		STEEL	46540				
		-92		STEEL	46540				
		-91		BRASS	4686				
		-90		DRILL ROD	46540				
		-89		DRILL ROD	46540				
		-88		DRILL ROD	46540				
		-87		MICHEL	4653				
		-86		STEEL	46540				
		-85		STEEL	46540				
		-84		STEEL	46540				
		-83		STEEL	46540				
		-82		STEEL	46540				
		-81		STEEL	46540				
		-80		STEEL	46540				
		-79		STEEL	46540				
		-78		BRASS	4686				
		-77		STEEL	46540				
		-76		STEEL	46540				
		-75		STEEL	46540				
		-74		STEEL	46540				
		-73		STEEL	46540				
		-72		BRASS	4686				
		-71		STEEL	46540				
		-70		STEEL	46540				
		-69		STEEL	46540				
		-68		STEEL	46540				
		-67		BRASS	4686				
		-66		STEEL	46540				
		-65		STEEL	46540				
		-64		STEEL	46540				
		-63		STEEL	46540				
		-62		BRASS	4686				
		310532-61	PINS - DOWEL	STEEL	46540, CL. C-6				

PINS (TABULATED)

310532

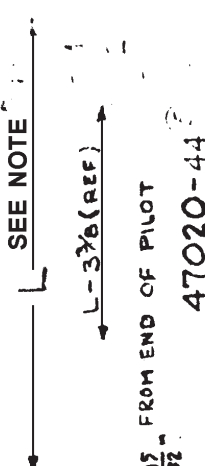
NAVAL AIRCRAFT FACTORY PHILADELPHIA

SHEET 8 OF 9

NOTES:

1.- DASH NUMBER OF HANDLE ASSEMBLY IS LENGTH "L" EXPRESSED IN 1/4 INCH THUS -310557-25 IS A HANDLE WITH A 3/4 CRANK PILOT.

2.- CRANK PILOT IS FURNISHED 11 INCHES LONG. CRANK MUST BE CUT TO REQUIRED LENGTH.



47020-5
REAM .250 ±.001 THRU - 2 HOLES FOR 47020-4

47020-2

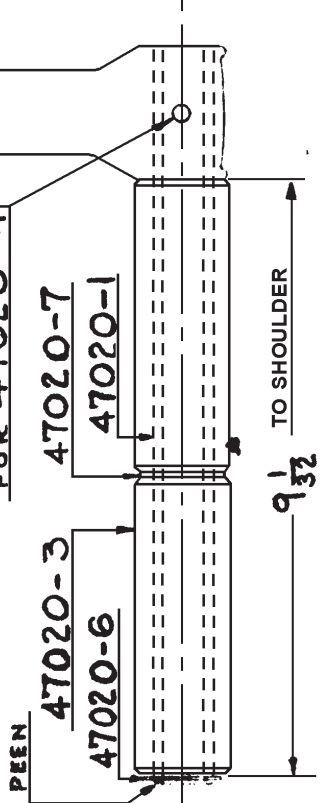
REAM .250 ±.001 THRU FOR 47020-4

47020-7

47020-1

47020-3

47020-6



CRANK HANDLE ASSEMBLY
FOR PART NO. SEE NOTE-1.

SEE NOTE FOR APPROVED METHODS OF ASSY.

ENGINEERING SECTION
310557-36
N3M-3 WITH 2 HOLES
N3M-3 WITH 2 HOLES
N3M-3 WITH 2 HOLES
W 1
④ ⑤ ①
② ③

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T. (1/50 IN.)	FINISH	EST. WT. ACT. WT.
1			WASHER					-
1			WASHER					-
1			CRANKING PIN					-
3			CRANK PIN					-
2			GRIP					.2
1			CRANK					.7
1			CRANK TUBE					.9
1	310557-47020-44		CRANK PILOT (SEE NOTE 2)					.7
-		310557-47020-44	CRANK HANDLE AS					2.7

ALTERNATIONS

①	ADD - 40 ON XMSZ-1	ADD - 24, 34, 44 N3M-3	ADD 24, 34, 44 N3M-3	ADD 24, 34, 44 N3M-3	ADD 24, 34, 44 N3M-3
②	DELETE 3/4 A DRILL NOTE	HOVER SVD	HOVER SVD	HOVER SVD	HOVER SVD
③	DELETE 3/4 A DRILL NOTE	HOVER SVD	HOVER SVD	HOVER SVD	HOVER SVD
④	FRANKLIN SVD	FRANKLIN SVD	FRANKLIN SVD	FRANKLIN SVD	FRANKLIN SVD
⑤	6.28.42 SVD	47020-44 WHT	47020-44 WHT	47020-44 WHT	47020-44 WHT

HANDLE - INERTIA STARTER

SCALE
HALF SIZE
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

310557

11/1/50

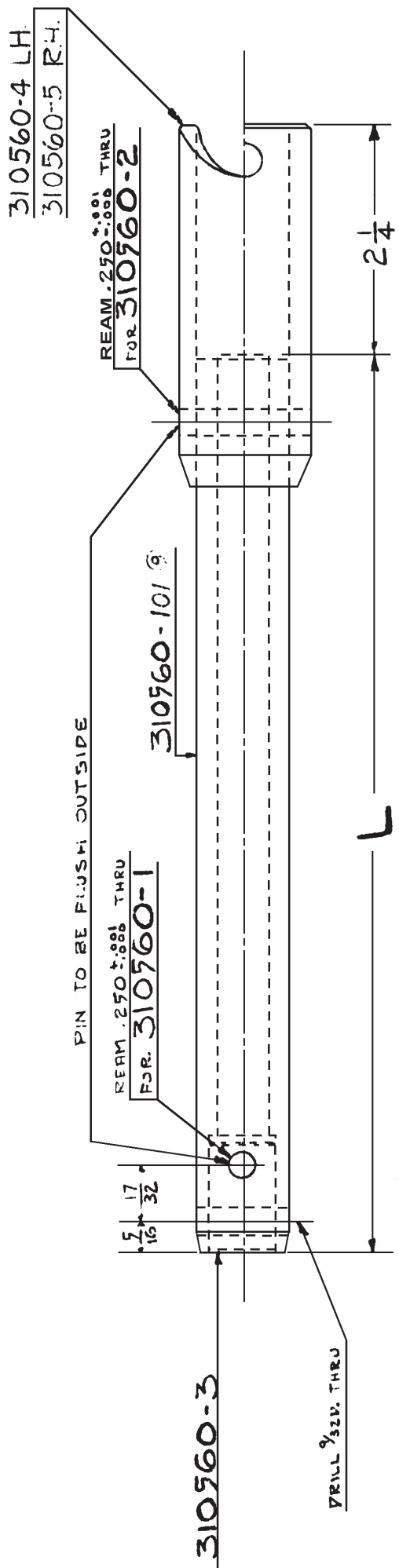
NOTES:

1. DASH NUMBER OF EXTENSION ASSEMBLY IS LENGTH OF SHAFT "L" EXPRESSED IN 1/4 INCH AND L.H. OR R.H. IS ROTATION REQUIRED. THUS, 310559-25 L.H. IS AN EXTENSION ASSEMBLY WITH 25 1/4" SHAFT, OVERALL LENGTH OF 8 1/2" AND L.H. SLEEVE REQUIRED.
2. EXTENSION ASSEMBLY 310560-101 IS FURNISHED IN 25 1/2" LENGTH AND MUST BE CUT TO LENGTH OF 7 1/2" ONLY.
3. ON EXTENSION ASSEMBLY 310560-101 THE PIN IS TO BE FLUSH OUTSIDE

ENGINEERING INFORMATION

PART NO. USED ON MODEL
 310559-51 L.H. (NSM)
 ① 310559-75 R.H. SBN-1 (SEENOTE)
 5 4 1 1 3 -47 LH NSN 3
 ⑧ ⑦ -52 LH XNSM-1

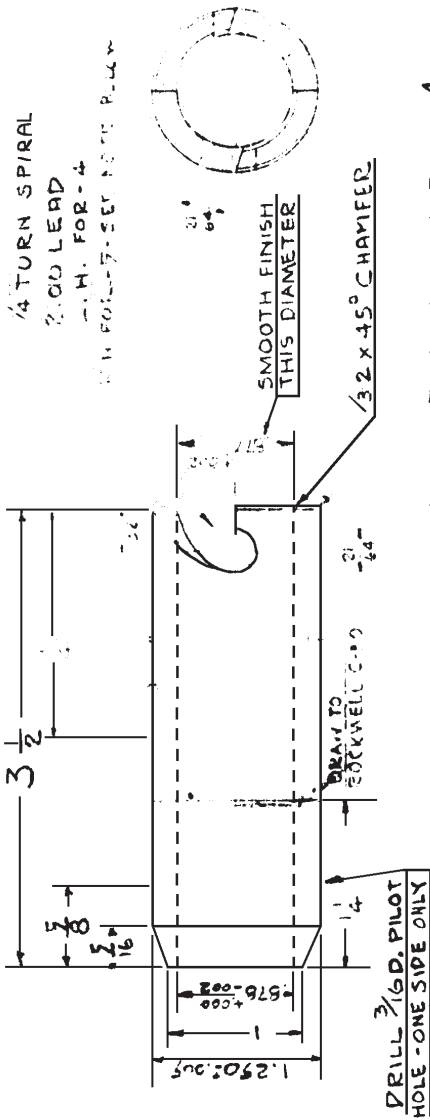
SEE DRAWING 40-40 FOR APPROVED METHODS OF ASSY.



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
1		-5	SLEEVE R.H.								.6
1		-4	SLEEVE L.H.								.6
1		-3	PLUG								.1
1		-2	PIN								-
1		-1	PIN								-
1	310559	310560-101	SHAFT (SEE NOTE 2)								1.0
1	PER ASSEM.	310559	EXTENSION ASSEMBLY (SEE NOTE 1)						PP-1		1.7

ALTERATIONS		DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010 ANGLES ± 1/4° UNLESS OTHERWISE NOTED.	
①	ADD -47 LH & MODEL XNSN-2	11-5-57	
②	ADD -47 LH & MODEL XNSN-2	12-6-57	
③	ADD -47 LH & MODEL XNSN-2	12-11-57	
④	ADD -47 LH & MODEL XNSN-2	13-1-57	
⑤	ADD -47 LH & MODEL XNSN-2	13-1-57	
⑥	ADD -47 LH & MODEL XNSN-2	13-1-57	
⑦	ADD -47 LH & MODEL XNSN-2	13-1-57	
⑧	ADD -47 LH & MODEL XNSN-2	13-1-57	
⑨	ADD -47 LH & MODEL XNSN-2	13-1-57	

EXTENSION-INERTIA STARTER CRANK ASSEMBLY	
SCALE	FULL SIZE
SUPERSEDED BY	310559
REF. DRAWING NO.	
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA	



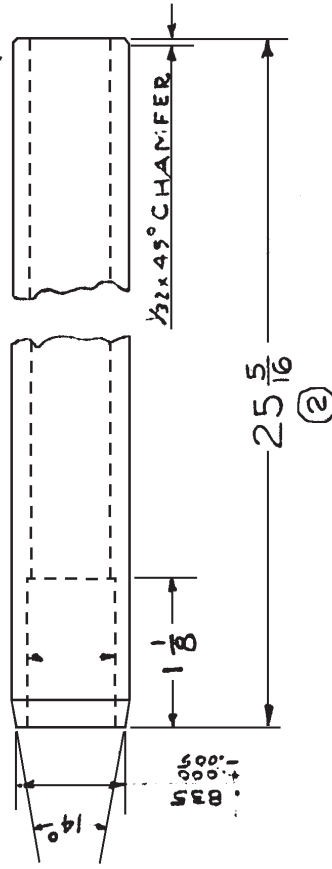
SPIRAL SLOT AS SHOWN FOR - 4
TO OPPOSITE HAND FOR - 5

- 4 & - 5

NOTE: - 4 IS SIMILAR TO ECLIPSE B-11791
- 5 IS SIMILAR TO ECLIPSE B-11574

REAM .640 ± .001

NOTE: LENGTH 7 INCHES (PART # 310560-28) USED ON
ASSEM. 47256-2 (N3N-3)



- 101

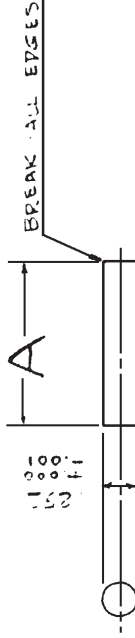
- NOTES:**
1. BREAK ALL SHARP EDGES.
 2. DASH NUMBER OF SHAFT IS LENGTH "L" EXPRESSED IN 1/8 INCH, THUS: - 310560-25 IS A SHAFT 6 1/4" LONG.
 3. FOR ASSEMBLY OF PARTS & NUMBER REQUIRED PER ASSEMBLY SEE DR. 310559.
 4. GRIND WHERE SHOWN "G".

1/4 TURN SPIRAL
2.00 LEAD
- H. FOR - 4
- H. FOR - 5 - SEE NOTE BELOW

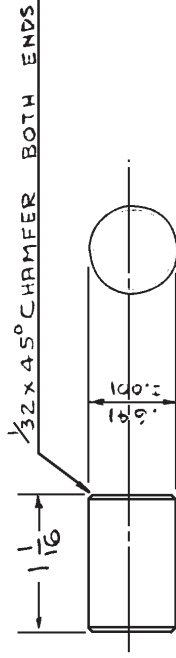


3/32 x 45° CHAMFER

NOTE: A IS SIMILAR TO
- 1 1.250 ± .005 ECLIPSE - 11595
- 2 1.250 ± .005 ECLIPSE - 11521



- 1 & - 2



NOTE: THIS PART SIMILAR
TO ECLIPSE A-12883

- 101

NOTE 3	NOTE 3	310560-1	PIN	NAME	STOCK	HT. T. #159.15	FINISH EST. WT. ACT. WT.

1-101	SHAFT	1.0 D. X 3/16 X 2	44T18	ROCKWELL
- 7	SLEEVE RH	1 1/4 D. X 3 5/8		3-38-42
- 4	SLEEVE LH	1 1/4 D. X 3 5/8		3-40-47
- 3	PLUG	1 1/4 D. X 1 1/8	STEEL	3-40-45
- 2	PIN	5/16 D. X 1 1/8	STEEL	3-42-46
		5/16 D. X 1	STEEL	3-43-48

ALTERATIONS

NO. REQ.	ASSEM.	PART NO.	NO. REQ.	ASSEM.	PART NO.
2		1-101	1		1-101
1		- 7	1		- 7
1		- 4	1		- 4
1		- 3	1		- 3
1		- 2	1		- 2
1		310560-1	1		310560-1

ADDED NOTE TO - 101 FOR N3N-3 AIRPLANE
APPLICABLE 5-28-46
ON SHAFT: N3N-3 AND REMOVED NOTE 5-28-46
YANPOLSKY 6-29-42
WAS 45513 4552568A

DIMENSIONS ARE IN INCHES. LIMITS ± DECIMALS ± .010. ANGLES ± 1/4° UNLESS OTHERWISE NOTED.

DRAWN	TRACED	CHECKED	SUPERVISOR	MATERIAL	CHIEF DRAFT.	PROJ. ENG.	ASST. CHIEF. ENG.	APPROVAL

SCALE	FULL SIZE	REF. DRAWING NO.

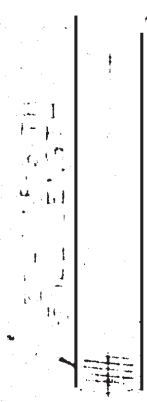
EXTENSION - INERTIA STARTER CRANK DETAILS

SUPERSEDED BY

310560

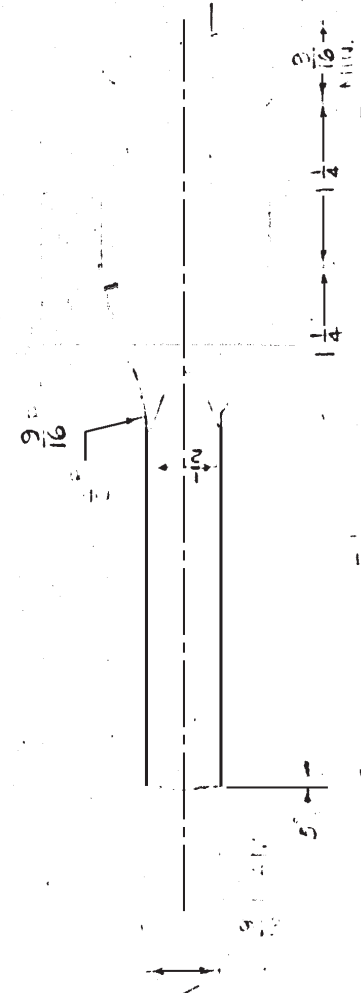
NAVAL AIRCRAFT FACTORY PHILADELPHIA

310740



REAM 9/16 DIA.
FOR PRESS FIT
ON BEARING

310740 ASSEMBLY



310740 - 1F FORGING

- NOTES:-
1. THREADS TO BE IN ACCORDANCE WITH SPEC. M 352.
 2. BREAK SHARP CORNERS $\frac{1}{16}$.
 3. DIRECTION OF GRAIN TO FOLLOW CONTOUR OF LUG.

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT	ACT. WT	
1	310740	AN200K4	BEARING	STANDARD							.04	.04
1	310740	AN200K4	BEARING	STANDARD							.04	.04
1	310740-1	310740-1F	FITTING	FORGING	STEEL	SAE 5160						
1	310740	310740-1	FITTING	310740-1F			FH5-16	15,000	2.421	.4		
1	67523-9	310740	FITTING ASSY							.5		

DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS $\pm \frac{1}{64}$ DECIMALS $\pm .010$, ANGLES $\pm \frac{1}{2}^\circ$, UNLESS OTHERWISE NOTED.	
DRAWN	GIORDANO	7-14-39	
CHECKED	Lichtenstein	7-24-39	
SUPERVISOR	Kaplan	8-3-39	
STRUCTURE	Reichert	8-2-39	
CHIEF DRAFT.	Johnson	8-11-39	
PROJ. ENG.	Johnson	8-11-39	
ASST. CH'F. ENG.			
APPROVAL			

ALTERATIONS	

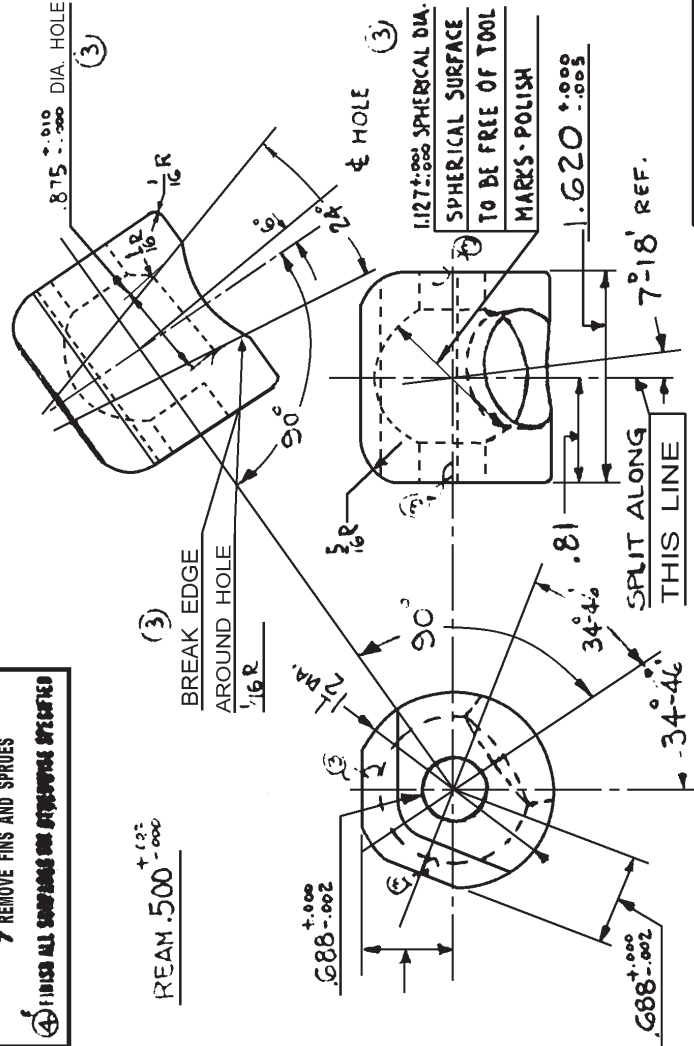
TERMINAL	
AILERON CONTROL - DETAIL	
SUPERSEDED BY	
SCALE	
FULL SIZE	
REF. DRAWING NO.	310740
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA	

310741

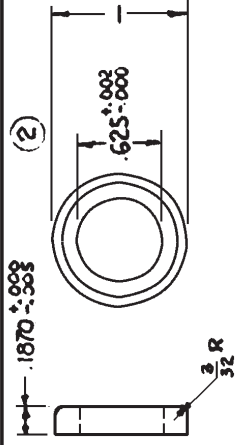
TO BE KEPT
IN PAIRS

-2
-1

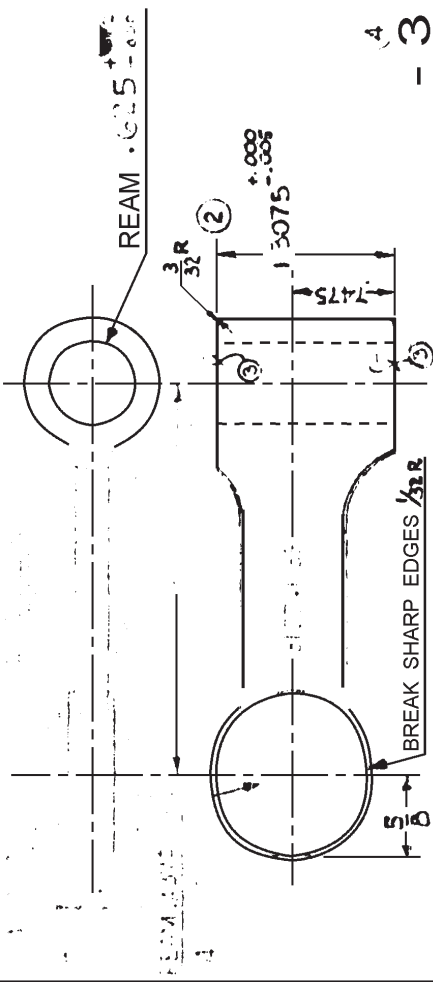
- ① BUFF
- ② ROUGH MACH. FINISH
- ③ HAND FINISH
- ④ SMOOTH MACH. FINISH SAND BLAST
- ⑤ REMOVE FINES AND SPRUES
- ⑥ FINISH ALL SURFACES AND STRENGTHEN SPECIFIED



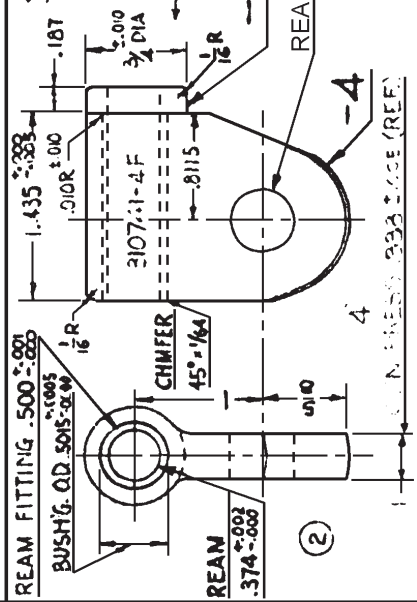
SPLIT BALL SOCKET



-6



KEY:	FIG. 4
NAME:	NO. 13
MODEL:	BUREAU AIR CHANGE



4 - 7 ASSEMBLY

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	WT. ACT.
2	67706-2	3	LINK ASSEMBLY		STEEL	PHS-10	125,000	FFI-86	3.5
2	67706-2	1	SPACER		STEEL	PHS-10	125,000	FFI-86	.03
1	310741-7	2	BUSHING		STEEL	PHS-10	125,000	AN-94	.05
1	310741-7	3	LINK-TIEROD		STEEL	PHS-10	125,000	AN-94	.3
2	67706-1	1	LINK-TIEROD		STEEL	PHS-10	125,000	FFI-86	.4
2	67706-1	2	SOCKET-BALL		STEEL	PHS-10	125,000	AN-94	.2
2	67706-1	1	SOCKET-BALL		STEEL	PHS-10	125,000	AN-94	.2

DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS $\pm \frac{1}{4}$ DECIMALS $\pm .010$, ANGLES $\pm \frac{1}{2}^\circ$, UNLESS OTHERWISE NOTED.

ALTERNATIONS

NO.	DATE	DESCRIPTION	BY	CHKD.
①	1-11-40	ON-3 DIM. REMOVED & 4 TO CUT FORG. HOLE	W. B. B.	W. B. B.
②	2-13-40	ON-3 WIDTH WAS 1.435 TO MAKE 7-GADDED	W. B. B.	W. B. B.
③	10-11-40	ON-3 REDESIGNED - 5 ADD	W. B. B.	W. B. B.
④	11-12-40	1.127 WAS 1.122	W. B. B.	W. B. B.
⑤	3-27-41	ADDED BUR. CHG. #13, KN3-N-3 CHG. #4	W. B. B.	W. B. B.

APPROVAL

CHIEF DRAFTSMAN: W. B. B.

STRUCTURE: Kaplan

CHIEF DRAFT: Muller

PROJ. ENG.: [Signature]

EST. CHG. ENG.: [Signature]

APPROVAL: [Signature]

SCALE: Full Size

SUPERSEDED BY: 310741

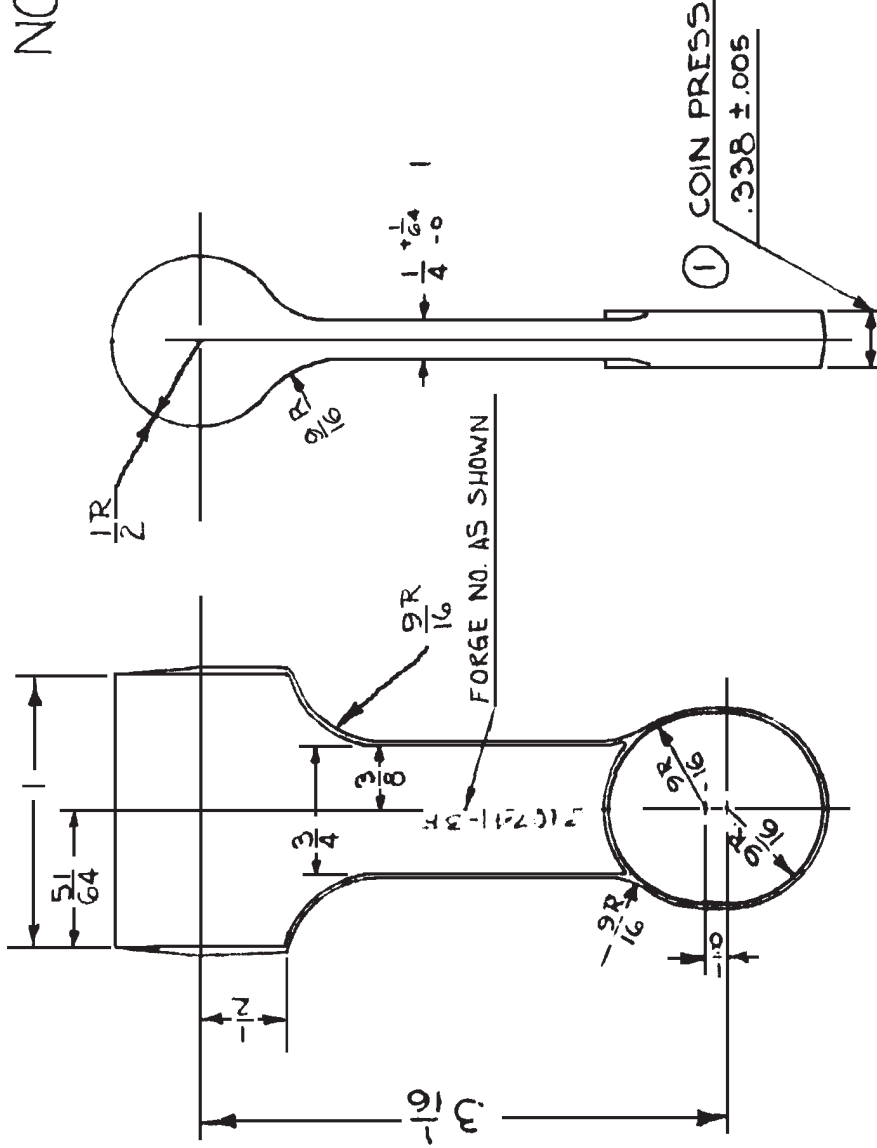
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

310741-3F

9/20/59

NOTES:

- 1 DRAFT ANGLES TO BE 7° UNLESS OTHERWISE NOTED
- 2 TOLERANCES ON FORGING TO BE ±1/64, 1°, UNLESS OTHERWISE NOTED.
- 3 BREAK ALL SHARP CORNER WITH 1/16 RADIUS
- 4 GRAIN OF MATERIAL TO FOLLOW CONTOUR OF LUG



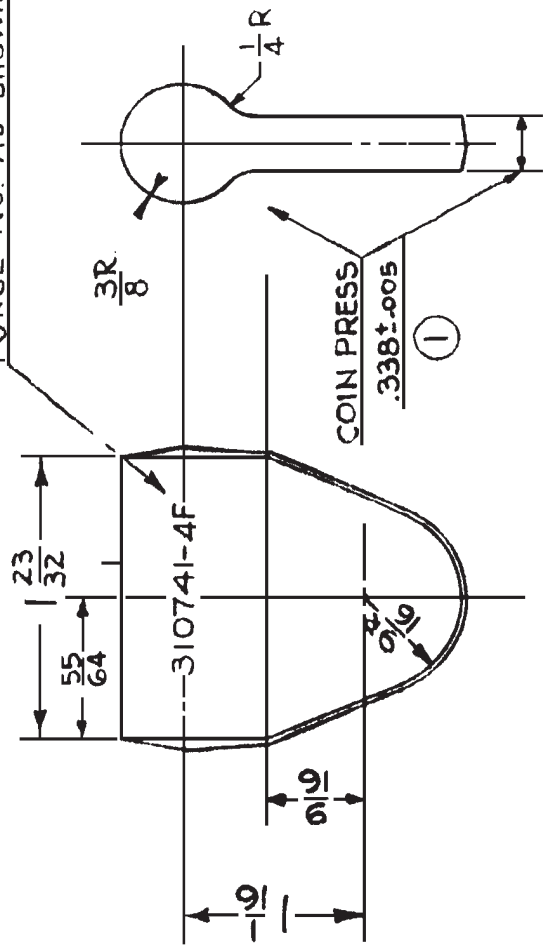
1	310741-3	310741-3F	FITTING	FORGING	STEEL	A6-523 G.F.A	PH-5-10	125000		
				STOCK	MATERIAL	SPEC.	MT. T.	FINISH	EST. WT.	ACT. WT.
DIMENSIONS ARE IN INCHES. LIMITS ± DECIMALS ± .010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.										
DESIGNED FOR: FITTING - LOWER LANDING GEAR (LAND TYPE)-FORGING										
SUPERSEDED BY: _____ APPROVED BY: _____ SCALE: FULL SCALE REF. DRAWING NO. 310741-3F										
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA										

①	NO. REQ.	ASSEM.	PART NO.	NAME	DATE
ALTERNATIONS ① - 15-40 ② - 15-40					
DESIGNED FOR: FITTING - LOWER LANDING GEAR (LAND TYPE)-FORGING					
SUPERSEDED BY: _____ APPROVED BY: _____ SCALE: FULL SCALE REF. DRAWING NO. 310741-3F					
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA					

NOTES:

1. DRAFT ANGLES TO BE 7° UNLESS OTHERWISE NOTED
2. TOLERANCES ON FORGING TO BE $\pm 1/64$, 1° UNLESS OTHERWISE NOTED.
3. BREAK ALL SHARP CORNERS WITH $1/16$ RADIUS
4. GRAIN OF MATERIAL TO FOLLOW CONTOUR OF LUG

FORGE NO. AS SHOWN



1	68121-12												
1	68120-13	310741-4F FITTING	FORGING	STEEL	46525 PH5-10125								
1	310741-4												
NO. REQ. ASSEM. N3N-3		PART NO.		NAME		STOCK		MATERIAL SPEC.		HT. T.		U.T.S. FINISH EST. WT. ACT. WT.	
				DIMENSIONS ARE IN INCHES. LIMITS ±				DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.					

DESIGNED FOR: []

TITLE: **FITTING - UPPER**

DATE: 9/20/37

ASSEMBLES PAVED

ASSEMBLY REMOVED 1/25/39

TITLE OF DRWG. CHGD.

WAS 259 & 045

COIN PRESS .338 X .008

ALTERNATIONS

1 - 13 - 40

DATE: 9/15/37

9/15/37

9/15/37

9/15/37

9/15/37

9/15/37

SUPPLIED BY: []

SCALE: FULL SCALE

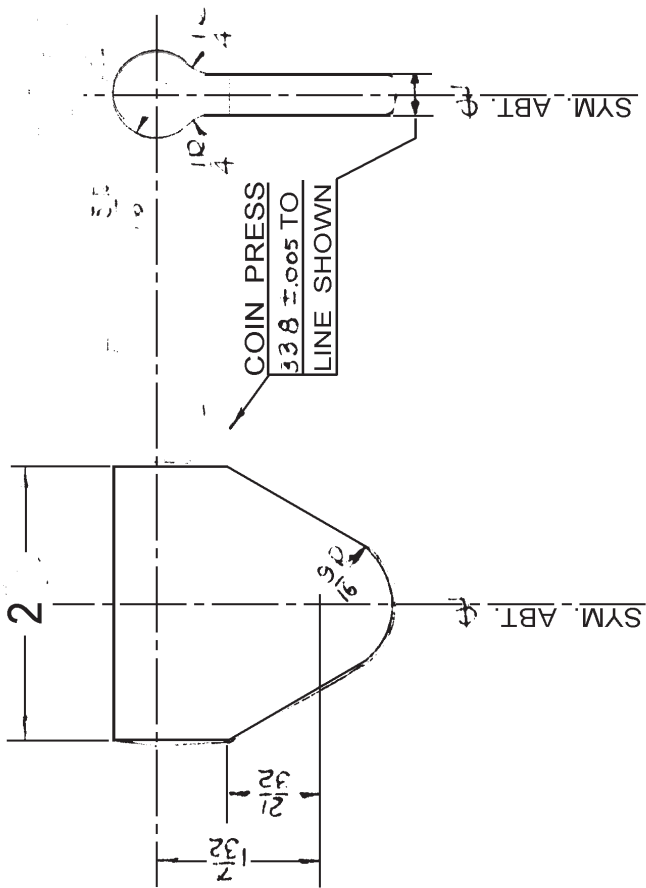
REF. DRAWING NO.: **310741-4F**

SUPPLEMENTED BY: []

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

21072

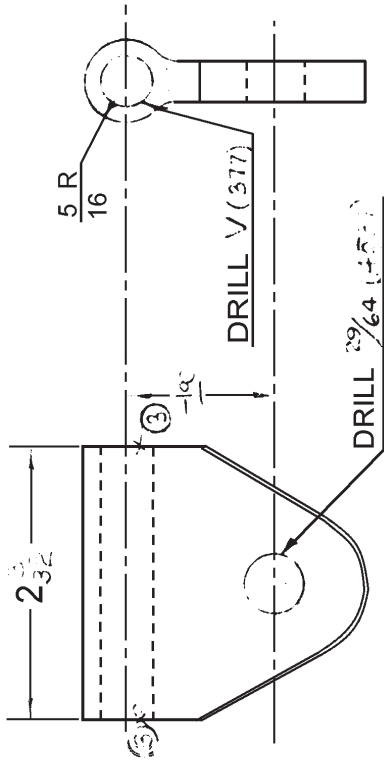
- ① BUFF
- ② HAND FINISH
- ③ SMOOTH MACH. FINISH
- ④ ROUGH MACH. FINISH
- ⑤ ROUGH FILE OR GRIND
- ⑥ SAND BLAST
- ⑦ REMOVE FINIS AND SPRUES
- ⑧ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED



-1F

4. GRAIN OF MATERIAL TO FOLLOW 5. TOOL OF LUG

NOTES:

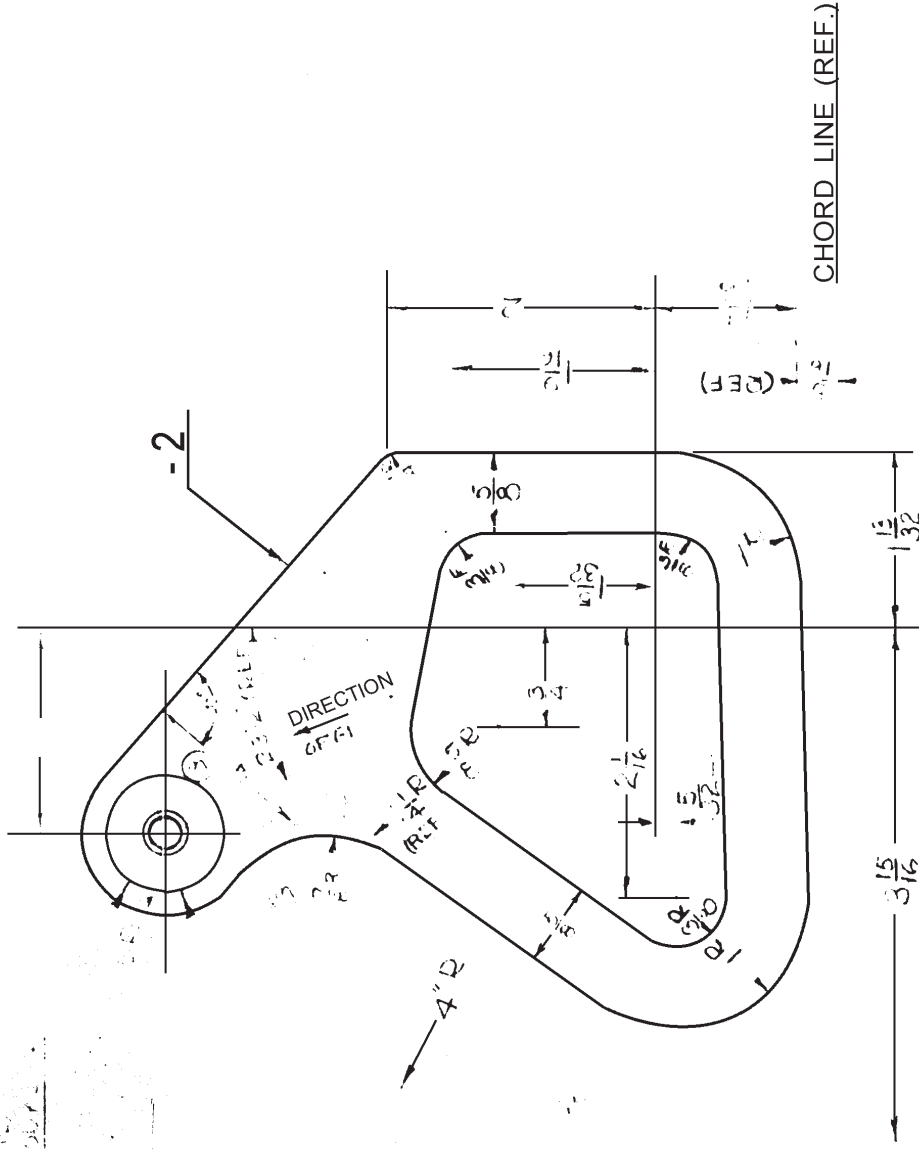


-1

1	310745-1	310745-1F	FORGING	STEEL	46S23	PH-S10	125,000																												
2	68120-1	310745-1	LUG	FORGING -IF																															
NO. REQ.		ASSEM.	PART NO.	NAME	DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2° UNLESS OTHERWISE NOTED.																														
N3N-3		←DESIGNED FOR			<table border="1"> <tr> <td>DRAWN</td> <td>ROSEN</td> <td>8-21-37</td> </tr> <tr> <td>CHECKED</td> <td>Shah</td> <td>8-21-37</td> </tr> <tr> <td>SUPERVISOR</td> <td>Kaplan</td> <td>8-21-37</td> </tr> <tr> <td>STRUCTURE</td> <td>Fletcher</td> <td>8-22-37</td> </tr> <tr> <td>CHIEF DRAFT</td> <td>W. L. S.</td> <td>8-22-37</td> </tr> <tr> <td>PROG. ENG.</td> <td>Throckmorton</td> <td>8-22-37</td> </tr> <tr> <td>ASST. CHIEF ENG.</td> <td></td> <td></td> </tr> <tr> <td>APPROVAL</td> <td>W. L. S.</td> <td>8-22-37</td> </tr> </table>							DRAWN	ROSEN	8-21-37	CHECKED	Shah	8-21-37	SUPERVISOR	Kaplan	8-21-37	STRUCTURE	Fletcher	8-22-37	CHIEF DRAFT	W. L. S.	8-22-37	PROG. ENG.	Throckmorton	8-22-37	ASST. CHIEF ENG.			APPROVAL	W. L. S.	8-22-37
DRAWN	ROSEN	8-21-37																																	
CHECKED	Shah	8-21-37																																	
SUPERVISOR	Kaplan	8-21-37																																	
STRUCTURE	Fletcher	8-22-37																																	
CHIEF DRAFT	W. L. S.	8-22-37																																	
PROG. ENG.	Throckmorton	8-22-37																																	
ASST. CHIEF ENG.																																			
APPROVAL	W. L. S.	8-22-37																																	
				MATERIAL SPEC.		HT. T.	U. T. S.	FINISH	EST. WT.	ACT. WT.																									
				STEEL				AV. GR. P-2-Z1		.3																									
				SUPERSEDED BY		SCALE		REF. DRAWING NO.																											
				LUG - WING BEAM		FULL SCALE		310745																											
				UPPER PORT - ROLL WIRE		SUPERSEDED BY		NAVAL AIRCRAFT FACTORY PHILADELPHIA																											

310746

REAM TO FIT FOR
PRESS FIT
ANZOOKS
BEARING .9014 TOLERANCE
STAKE FOUR PLACES
EACH SIDE.



-1 ASSEMBLY

②
①
W

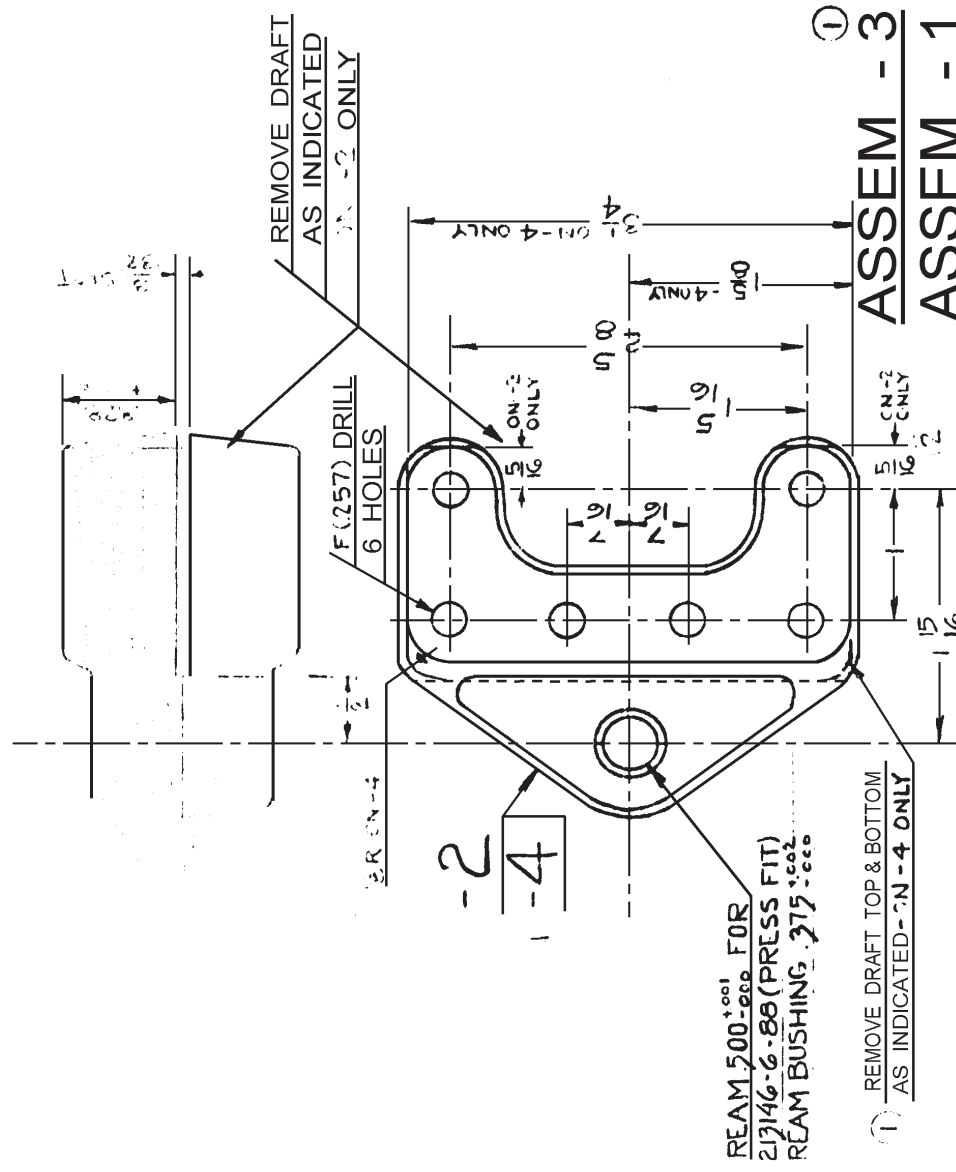
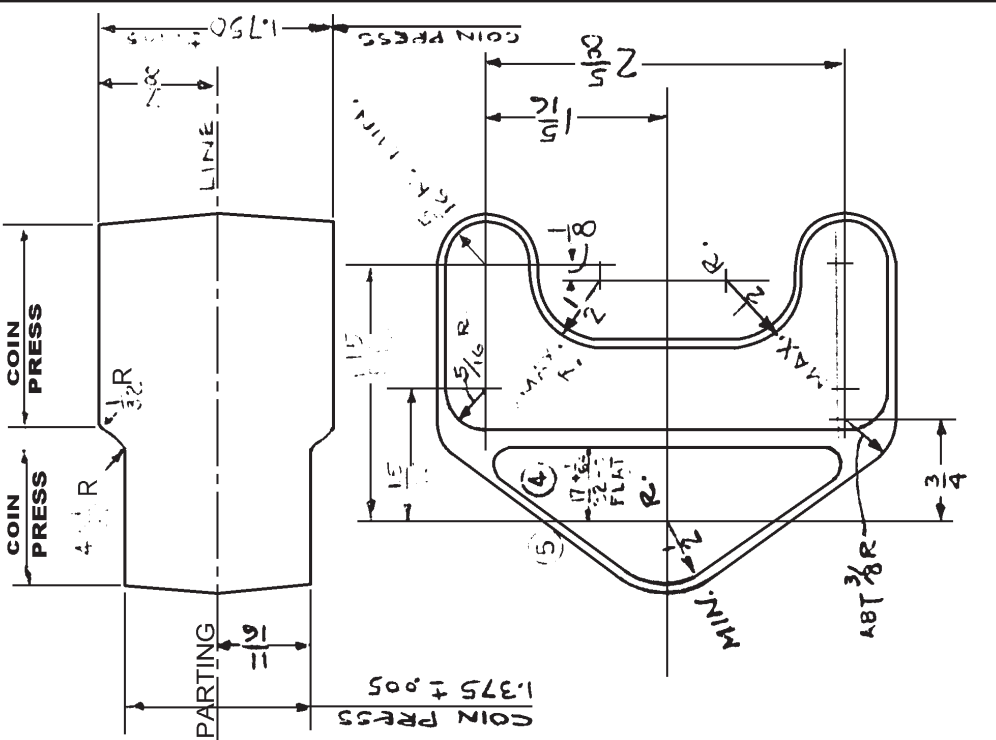
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
1	310746-1	ANZOOKS-4	BEARING	STD						
1	310746-1	310746-2	HORN	7/16 x 4 7/8 x 5/2				62.000	PF-140	.3
1	68132-7	68132-8	ANZOOKS-8 ASSEM							.3

DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ± 1/16 * DECIMALS ± .010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.	
DRAWN	ROSEN	8-16-39	
CHECKED	Cam Shell	8-16-39	
SUPERVISOR	Patella	8-17-39	
STRUCTURE	Jensen	8-17-39	
CHIEF DRAFT.	Walters	8-17-39	
PROJ. ENG.	Thompson	8-17-39	
ASST. CHIEF. ENG.	Walters	8-17-39	
APPROVAL	Walters	8-17-39	

ALTERNATIONS	
①	CHANGED PART NO IN D.M.
②	11-9-39
③	1-22-40 L&L

N3N-3	
①	1/4 90° ADDED
②	KD-4
③	FATTIN

SUPERSEDED BY	
SCALE	FULL SIZE
REF. DRAWING NO.	310746
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA	



REAM 500±0.001 FOR
213146-6-88 (PRESS FIT)
REAM BUSHING .275±0.002

(1) REMOVE DRAFT TOP & BOTTOM
AS INDICATED - 2N - 4 ONLY

FORGING NOTES

1. ALL DRAFT ANGLES 7°
2. TOLERANCE $+\frac{3}{64} - \frac{1}{64}$
3. DIRECTION OF GRAIN TO FOLLOW CONTOUR OF LUGS
4. ROUND ALL CORNERS $\frac{1}{16}$

FORGING - 2F

-2F - TOLERANCE	ADDED FOR 72 DIM.
(5) 5-13-41	L9L
-2-4 132	ADDED

QTY	PART NO.	NAME	STOCK	SPEC.	HT. T.	FINISH	EST. WT.
1	310750-3	213146-6-88 BUSHING	STD.				
1	310750-3	310750-4 FITTING		310750-2F			
1	310750-3	310750-4 FITTING		(FRONT)			
1	310750-2	2F FITTING					
1	310750-1	2 FITTING					
1	310750-1	2 FITTING					
1	310750-1	1 FITTING					
1	310750-1	1 FITTING					

DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS: $\pm \frac{1}{4}$ DECIMALS $\pm .010$, ANGLES $\pm \frac{1}{4}$, UNLESS OTHERWISE NOTED.

DRAWN	TRACED	MCJINNEY	9-11-39
CHECKED	JOE BROWN	9-11-39	
SUPERVISOR	KEPPEL	9-11-39	
STRUCTURE	JENKINS	9-11-39	
CHIEF DRAFT	ALTON	9-11-39	
PROJ. ENG.	HUNTER	9-11-39	
INT. CHECKED			
APPROVAL			

310750

SUPERSEDES

SCALE

FULL SIZE

REF. DRAWING NO.

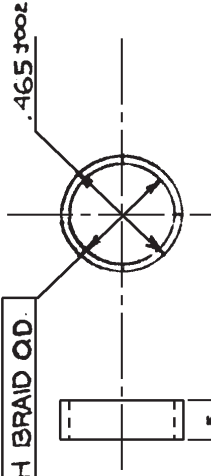
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

PAGE #

NOTES:

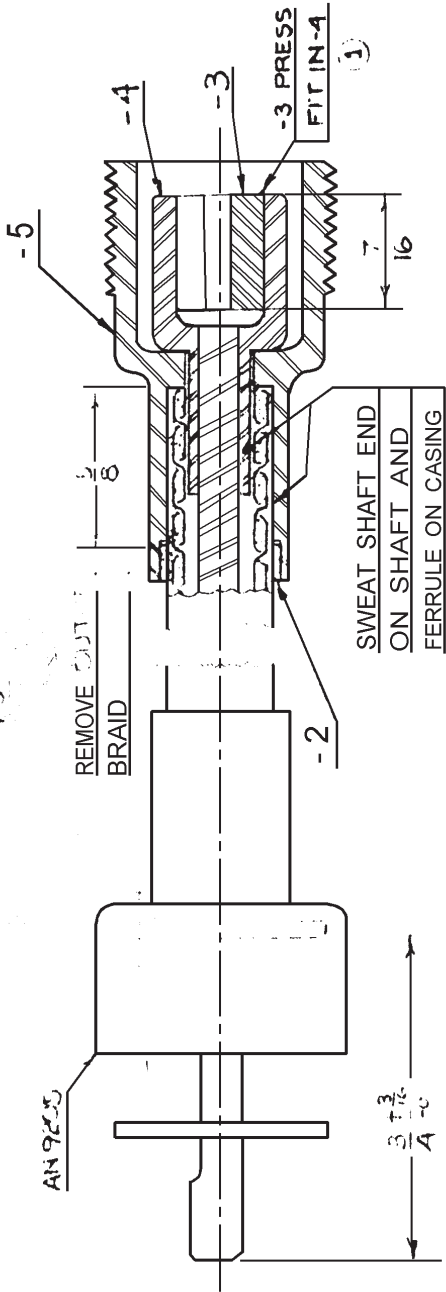
1. BREAK ALL SHARP EDGES.
2. SHAFT TO BE PER AN 9205 EXCEPT WHERE NOTED.
3. COMPLETED ASSY TO SATISFY SPEC. SQ-79 EXCEPT AS NOTED.

TO BE SNUG FIT WITH BRAID OD.

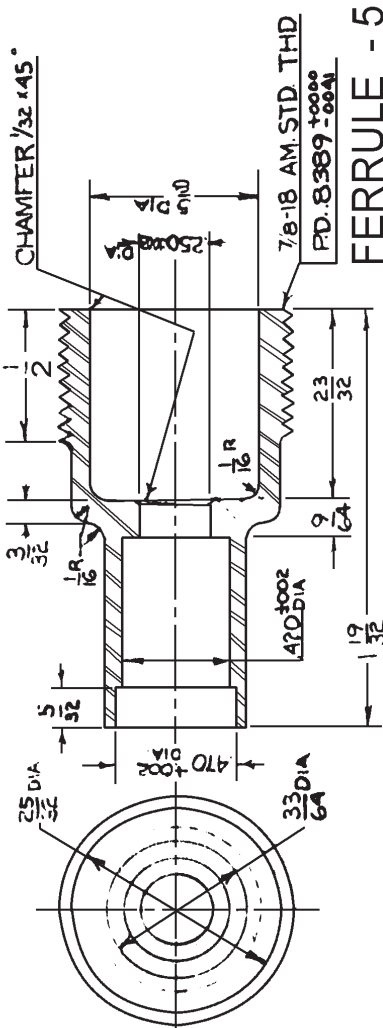


③

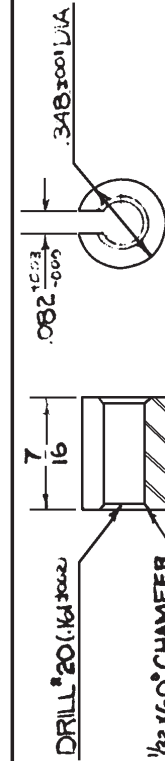
RING - 2



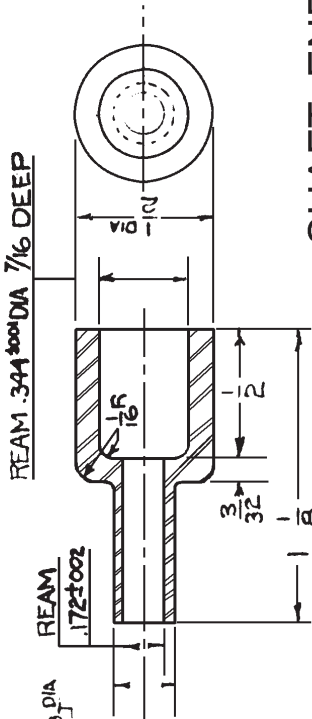
SHAFT ASSY - 1



FERRULE - 5



FITTING - 3



SHAFT END - 4

NO. REQ.		ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	MT. T.	FINISH	EST. WT.	ACT. WT.
1	1	AN9205	SHAFT	SHAFT		BRASS COMM'L					
1	1	-1	-5	FERRULE	1 DIA x 1 3/4	BRASS COMM'L					
1	1	-1	-4	SHAFT END	5/8 DIA x 1 1/4	BRASS COMM'L					
1	1	-1	-3	FITTING	3/8 DIA x 1/2	COMM. RES. STEEL	COMM'L NON-MAGNETIC				
1	1	310751-1	-2	RING	1/2 DIA x 3/2	BRASS COMM'L					
1	1	67612-1	30751-1	SHAFT-ASSY							.6

DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ±.00 DECIMALS ±.010. ANGLES ±.4°. UNLESS OTHERWISE NOTED.

ALTERNATIONS

NO.	DATE	BY	DESCRIPTION
1	9-27-39	HOOPER	HOOPER
2	9-27-39	HOOPER	HOOPER
3	9-27-39	HOOPER	HOOPER
4	9-27-39	HOOPER	HOOPER

SHAFT TACHOMETER DRIVE

SUPERSEDED BY

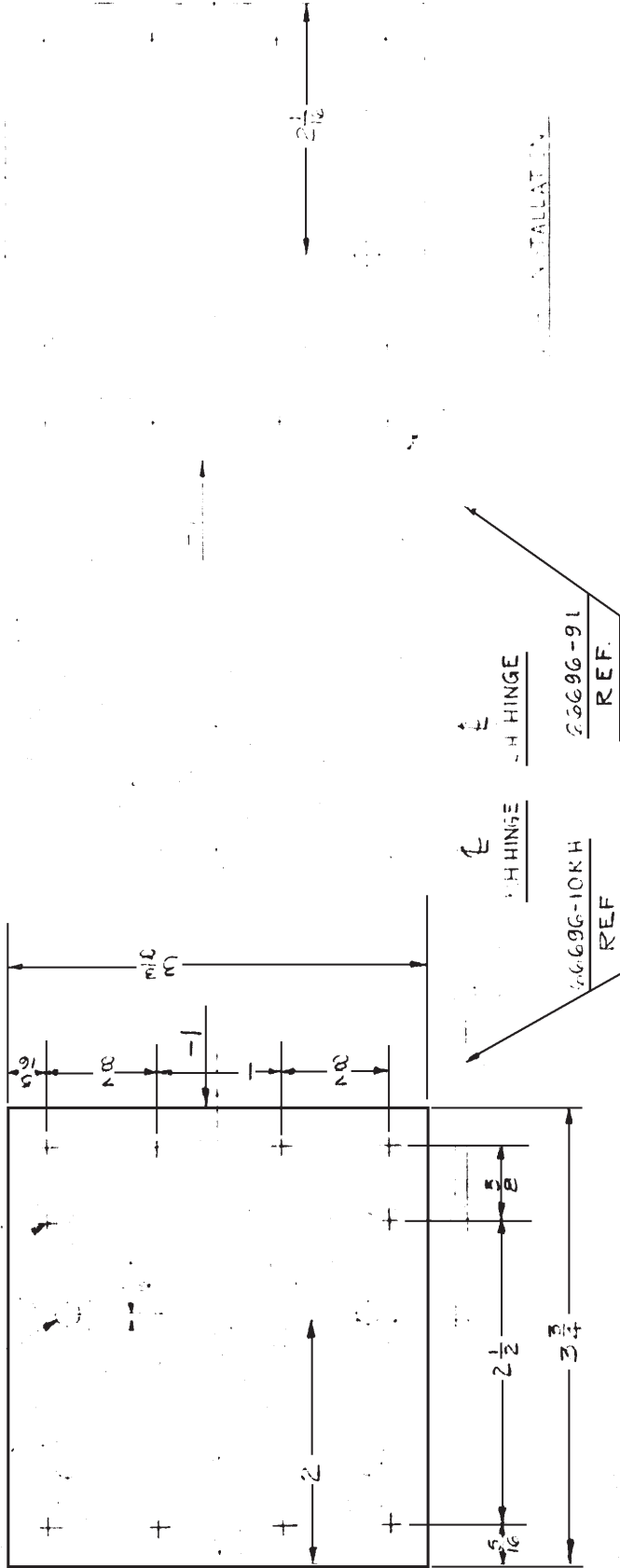
SCALE 310751

TWICE SIZE REF. DRAWING NO.

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

ANALYZED

SEE FIGURE
HOLES WITH
27666-B



R.H. INSTALLATION

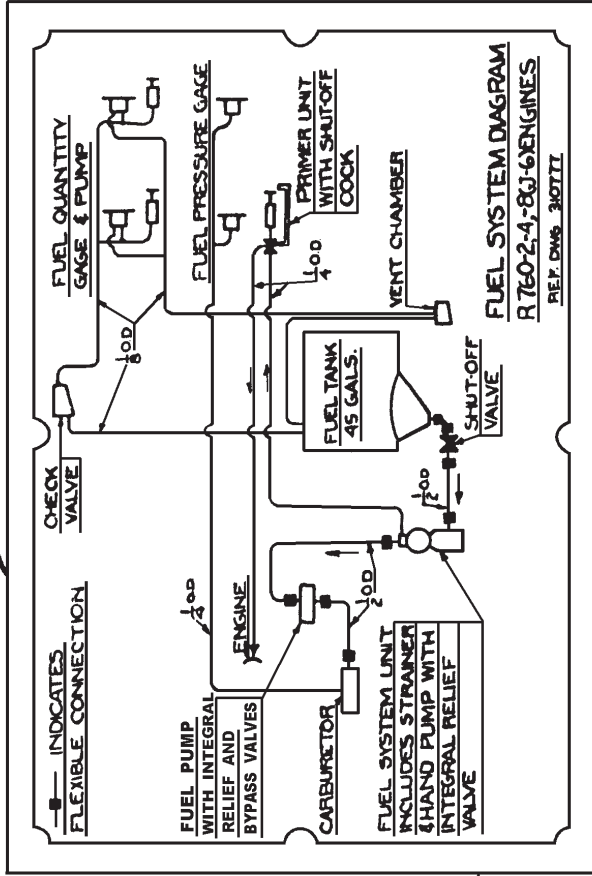
- 2. THESE PLATES TO BE INSTALLED ON FORWARD FACE OF BEAMS.
- NOTE: 1. THESE REINFORCING PLATES REQUIRED ON BEAMS COVERED BY FIGURE 11-22-30

1	27666-91	310773-1	PLATE	NAME	STOCK	ALUMINUM 47410	SR03	62000	PF-140		
NO. REQ.		ASSEM.	PART NO.	DIMENSIONS ARE IN INCHES. LIMITS ± 1/4 DECIMALS ± 0.10 ANGLES ± 1/4° UNLESS OTHERWISE NOTED.			MATERIAL	SPEC.	HT. T.	FINISH	EST. WT. ACT. WT.
N3N-3				← DESIGNED FOR			27666-10KH				
				ALTERATIONS			27666-91				
				DRAWN TRACED	11-24-39						
				CHECKED							
				SUPERVISOR							
				STRUCTURE							
				CHIEF DRAFT.							
				PROJ. ENG.							
				ASST. CHIEF. ENG.							
				APPROVAL							
				SUPERSEDED BY			REAR - LOWER WING BEAMS			310773	
				SCALE			FULL SIZE			REAR - REINFORCING	
				NAVY YARD			NAVAL AIRCRAFT FACTORY			PHILADELPHIA	

310777

67-1727

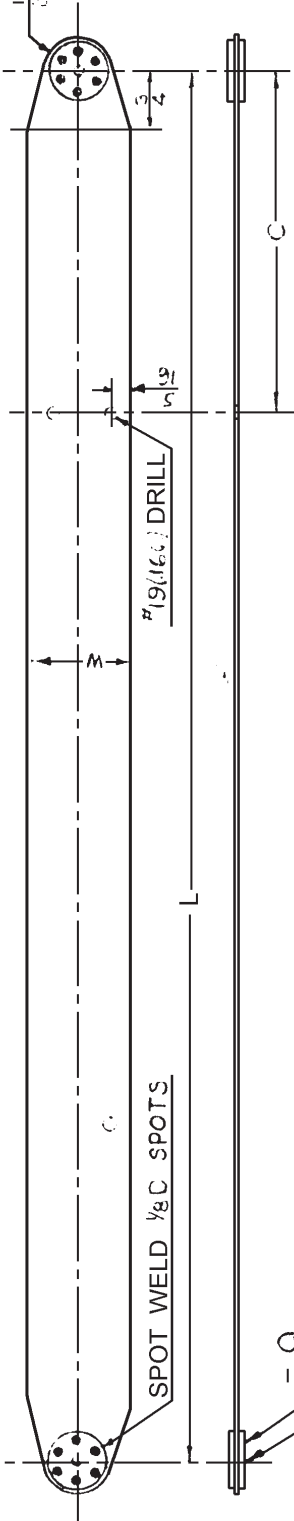
CUTTING EDGE



①

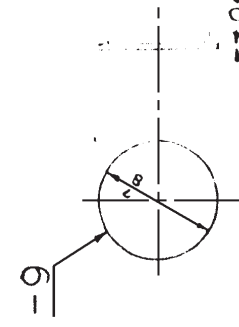
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U. T. #	FINISH	EST. WT.	ACT. WT.
1	68122-311	310777-1	FUEL SYSTEM DIAG. WHITE PRINT								
DIMENSIONS ARE IN INCHES. LIMITS ± DECIMALS ±.010. ANGLES ±½°. UNLESS OTHERWISE NOTED.											
DESIGNED FOR			MOORE	12-5-39							
DRAWN			ROSS	12-5-39							
CHECKED			ROSS	12-5-39							
SUPERVISED			ROSS	12-5-39							
STRUCTURE											
CHIEF DRAFT				12-6-39							
PROJ. ENG.				12-6-39							
DET. CHG. ENG.				12-7-39							
APPROVAL											
ALTERNATIONS											
REMOVED 1054											
N3N-3											
SUPERSEDED BY											
SCALE			NONE								
REF. DRAWING NO.			310777								
NAVY YARD			NAVAL AIRCRAFT FACTORY		PHILADELPHIA						

310784



NOTES:

ASSEM.	STRAP	L	W	C	WASHER
310784 - 1	310784 - 5	22 1/8	1 1/2	2 7/8	310784 - 9
310784 - 2	310784 - 6	26 5/16	1 1/2	4 1/2	310784 - 9
310784 - 3	310784 - 7	28 5/8	1 1/2	6 1/8	310784 - 9
310784 - 4	310784 - 8	29	1 1/2	5 3/4	310784 - 9



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T. U.T.S. FINISH	EST. WT. ACT. WT.
4	310784-9	310784-9	WASHER	.049 x 7/8 O.D.	47S19 K. S. STEEL G.R. 1-55		—
		-4	STRAP	.035 x 1/2 x 30	47S19 K. S. STEEL G.R. 1-55		.5
		-3	STRAP	.035 x 1/2 x 29 5/8	47S19 K. S. STEEL G.R. 1-55		.5
		-2	STRAP	.035 x 1/2 x 27 5/8	47S19 K. S. STEEL G.R. 1-55		.5
		-1	STRAP	.035 x 1/2 x 23 1/8	47S19 K. S. STEEL G.R. 1-55		.4
		6620-4	STRAP ASSEM. (UPPER REAR)		NOTE-180,000		.5
		6620-4	STRAP ASSEM. (LOWER REAR)		NOTE-180,000		.5
		6620-4	STRAP ASSEM. (UPPER FRONT)		NOTE-180,000		.5
		6620-4	STRAP ASSEM. (LOWER FRONT)		NOTE-180,000		.4

DESIGNED FOR		ALTERNATIONS	
1	12-4-40	1	12-4-40
2	12-4-40	2	12-4-40
3	12-4-40	3	12-4-40
4	12-4-40	4	12-4-40
5	12-4-40	5	12-4-40
6	12-4-40	6	12-4-40
7	12-4-40	7	12-4-40
8	12-4-40	8	12-4-40
9	12-4-40	9	12-4-40
10	12-4-40	10	12-4-40
11	12-4-40	11	12-4-40
12	12-4-40	12	12-4-40
13	12-4-40	13	12-4-40
14	12-4-40	14	12-4-40
15	12-4-40	15	12-4-40
16	12-4-40	16	12-4-40
17	12-4-40	17	12-4-40
18	12-4-40	18	12-4-40
19	12-4-40	19	12-4-40
20	12-4-40	20	12-4-40

FULL SIZE

STRAP
SUPPORT

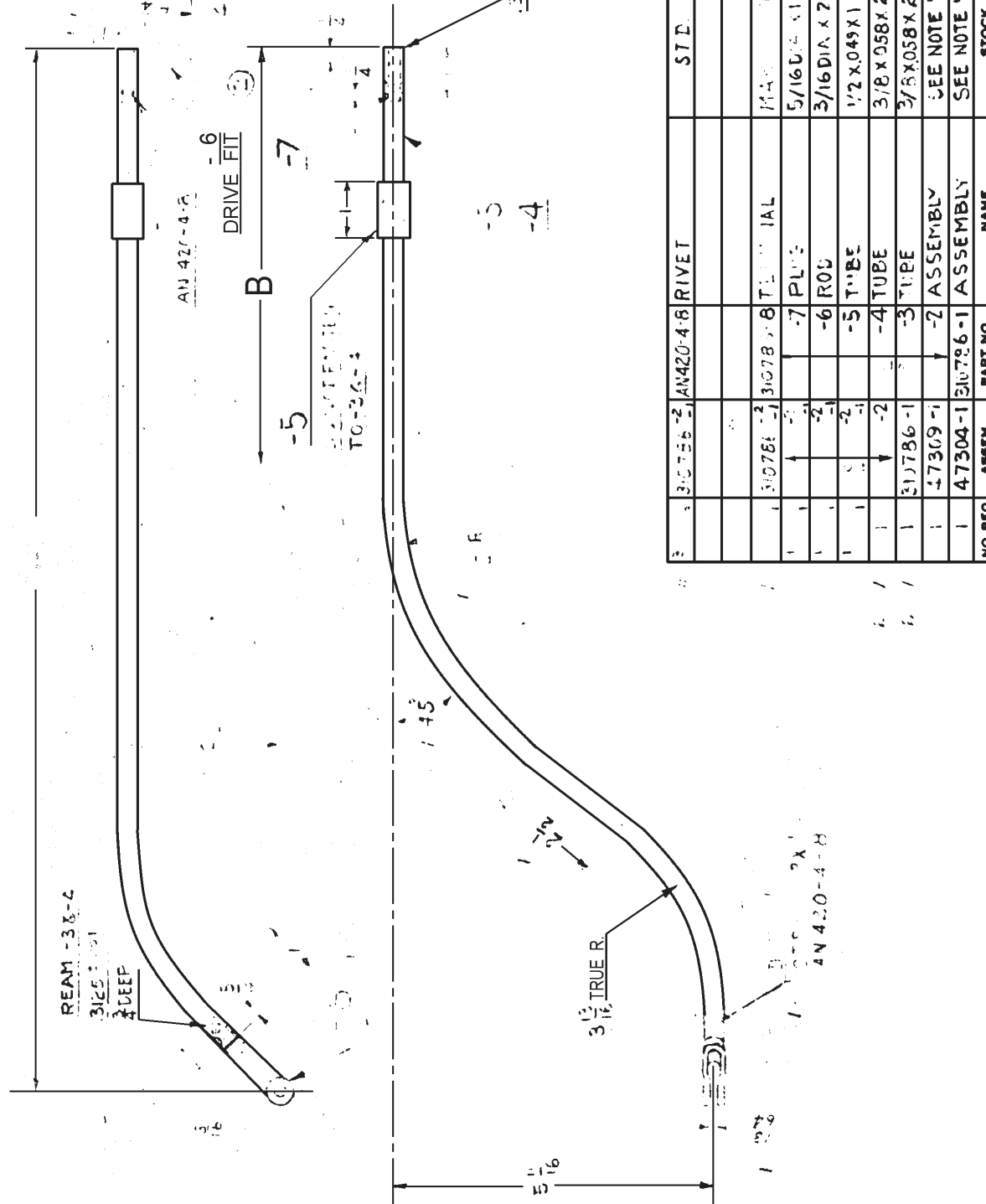
FUEL TANK
ASSEMBLY

SUPERSEDED BY
SCALE
HALF SIZE
REF. DRAWING NO.

310784
NAVAL AIRCRAFT FACTORY PHILADELPHIA

NOTES:-

- 1. REAM TUBE WITH SCINTILLA MAGNETO ONLY.
- 2. USE WITH SCINTILLA MAGNETO ONLY.
- 3. REAM TUBE WITH SCINTILLA MAGNETO ONLY.
- 4. REAM TUBE WITH SCINTILLA MAGNETO ONLY.
- 5. REAM TUBE WITH SCINTILLA MAGNETO ONLY.
- 6. REAM TUBE WITH SCINTILLA MAGNETO ONLY.
- 7. REAM TUBE WITH SCINTILLA MAGNETO ONLY.
- 8. REAM TUBE WITH SCINTILLA MAGNETO ONLY.
- 9. REAM TUBE WITH SCINTILLA MAGNETO ONLY.
- 10. REAM TUBE WITH SCINTILLA MAGNETO ONLY.



ASSEM. A	B
310786-1	20% 7/2
310786-2	22 9/8

MODEL BUR. AERO CHGE IN CORP?

PLATE	ASSEM.	A	B
N3N-3	310786-1	20%	7/2
N3N-1	310786-2	22	9/8

REAM TUBE 1
1 DEEP

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	MT. T.	FINISH	EST. WT.	ACT. WT.
1	47304-1	310786-1	ASSEMBLY	SEE NOTE #2	STEEL	44T:8 PH45-1 INCOJOG	FF-1-63			
1					STEEL	44T:8 PH45-1 INCOJOG	FF-1-63			
1					STEEL	44T:8 PH45-1 INCOJOG	FF-1-63			
1					STEEL	44T:8 PH45-1 INCOJOG	FF-1-63			
1					STEEL	44T:8 PH45-1 INCOJOG	FF-1-63			
1					STEEL	44T:8 PH45-1 INCOJOG	FF-1-63			
1					STEEL	44T:8 PH45-1 INCOJOG	FF-1-63			
1					STEEL	44T:8 PH45-1 INCOJOG	FF-1-63			
1					STEEL	44T:8 PH45-1 INCOJOG	FF-1-63			
1					STEEL	44T:8 PH45-1 INCOJOG	FF-1-63			

310786-2	AN420-4-8	RIVET	STD.
310786-2	310786-1	AL	MAX IM AN 31-3
7		PLUG	5/16 DIA X 1/2
6		ROD	3/16 DIA X 2 1/2
5		TUBE	1/2 X 0.049 X 1
4		TUBE	3/8 X 0.58 X 27
3		TUBE	3/8 X 0.58 X 25 1/2
2		ASSEMBLY	SEE NOTE #2
1	47304-1	310786-1	ASSEMBLY

DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ±.010. ANGLES ±1/2°. UNLESS OTHERWISE NOTED.				
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK
1	N3N-3	N3N-1	ASSEMBLY	12-2039
1				12-2639
1				12-2739
1				12-2839
1				12-2939
1				12-3039
1				12-3139
1				12-3239
1				12-3339
1				12-3439
1				12-3539
1				12-3639
1				12-3739
1				12-3839
1				12-3939
1				12-4039

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK
1	N3N-3	N3N-1	ASSEMBLY	12-2039
1				12-2639
1				12-2739
1				12-2839
1				12-2939
1				12-3039
1				12-3139
1				12-3239
1				12-3339
1				12-3439
1				12-3539
1				12-3639
1				12-3739
1				12-3839
1				12-3939
1				12-4039

CONTROL - STARTER ASSEMBLY

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK
1	N3N-3	N3N-1	ASSEMBLY	12-2039
1				12-2639
1				12-2739
1				12-2839
1				12-2939
1				12-3039
1				12-3139
1				12-3239
1				12-3339
1				12-3439
1				12-3539
1				12-3639
1				12-3739
1				12-3839
1				12-3939
1				12-4039

NAVAL AIRCRAFT FACTORY PHILADELPHIA

VOLVIC

NOTES:-

1. BE MADE IN ACCORDANCE WITH SPEC. 4309 USING COTTON THREAD 'ES WITH 6 STITCHES PER INCH.
 2. TO BE USED ON PLANE #1908 AND SUBSEQUENT PLANES.

SEM

ASSEM.	FELT	L	W	CANVAS
310794-1	310794-5	23 7/8	1 1/2	310794-9
310794-2	310794-6	28 3/16	1 1/2	310794-10
310794-3	310794-7	29 5/8	1 1/2	310794-11
310794-4	310794-8	30	1 1/2	310794-12

NO. REQ	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	IST. WT.	ACT. WT.
1	310794-1	310794-1	THREAD	4 YDS.	NOTE-1						
1	310794-2	310794-12	CANVAS	4 1/4	1 1/2 COTTON DUCK	CCC-D-771 TYPE III					.1
1	310794-3	310794-11	CANVAS	4 1/4	1 1/2 COTTON DUCK	CCC-D-771 TYPE III					.2
1	310794-4	310794-10	CANVAS	4 1/4	1 1/2 COTTON DUCK	CCC-D-771 TYPE III					.2
1	310794-5	310794-9	CANVAS	4 1/4	1 1/2 COTTON DUCK	CCC-D-771 TYPE III					.2
1	310794-6	310794-8	FELT PAD	1/4 x 1 1/2 x 3 1/2	FELT	F-12 S.R.A				NOTE-1	.1
1	310794-7	310794-7	FELT PAD	1/4 x 1 1/2 x 3 1/2	FELT	F-12 S.R.A				NOTE-1	.1
1	310794-8	310794-6	FELT PAD	1/4 x 1 1/2 x 3 1/2	FELT	F-12 S.R.A				NOTE-1	.1
1	310794-9	310794-5	FELT PAD	1/4 x 1 1/2 x 3 1/2	FELT	F-12 S.R.A				NOTE-1	.1
1	66620-4	310794-1	ASSEM.							NOTE-1	.2
1	66620-4	310794-2	ASSEM.							NOTE-1	.3
1	66620-4	310794-3	ASSEM.							NOTE-1	.3
1	66620-4	310794-4	ASSEM.							NOTE-1	.3

W
W
W
W

ALTERNATIONS

NO. REQ	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	IST. WT.	ACT. WT.
1	310794-1	310794-1	THREAD	4 YDS.	NOTE-1						
1	310794-2	310794-12	CANVAS	4 1/4	1 1/2 COTTON DUCK	CCC-D-771 TYPE III					.1
1	310794-3	310794-11	CANVAS	4 1/4	1 1/2 COTTON DUCK	CCC-D-771 TYPE III					.2
1	310794-4	310794-10	CANVAS	4 1/4	1 1/2 COTTON DUCK	CCC-D-771 TYPE III					.2
1	310794-5	310794-9	CANVAS	4 1/4	1 1/2 COTTON DUCK	CCC-D-771 TYPE III					.2
1	310794-6	310794-8	FELT PAD	1/4 x 1 1/2 x 3 1/2	FELT	F-12 S.R.A				NOTE-1	.1
1	310794-7	310794-7	FELT PAD	1/4 x 1 1/2 x 3 1/2	FELT	F-12 S.R.A				NOTE-1	.1
1	310794-8	310794-6	FELT PAD	1/4 x 1 1/2 x 3 1/2	FELT	F-12 S.R.A				NOTE-1	.1
1	310794-9	310794-5	FELT PAD	1/4 x 1 1/2 x 3 1/2	FELT	F-12 S.R.A				NOTE-1	.1
1	66620-4	310794-1	ASSEM.							NOTE-1	.2
1	66620-4	310794-2	ASSEM.							NOTE-1	.3
1	66620-4	310794-3	ASSEM.							NOTE-1	.3
1	66620-4	310794-4	ASSEM.							NOTE-1	.3

DIMENSIONS ARE IN INCHES. LIMITS ± 1/16 DECIMALS ± 1/16 ANGLES ± 1/2° UNLESS OTHERWISE NOTED.

FUEL TANK ASSEMBLY

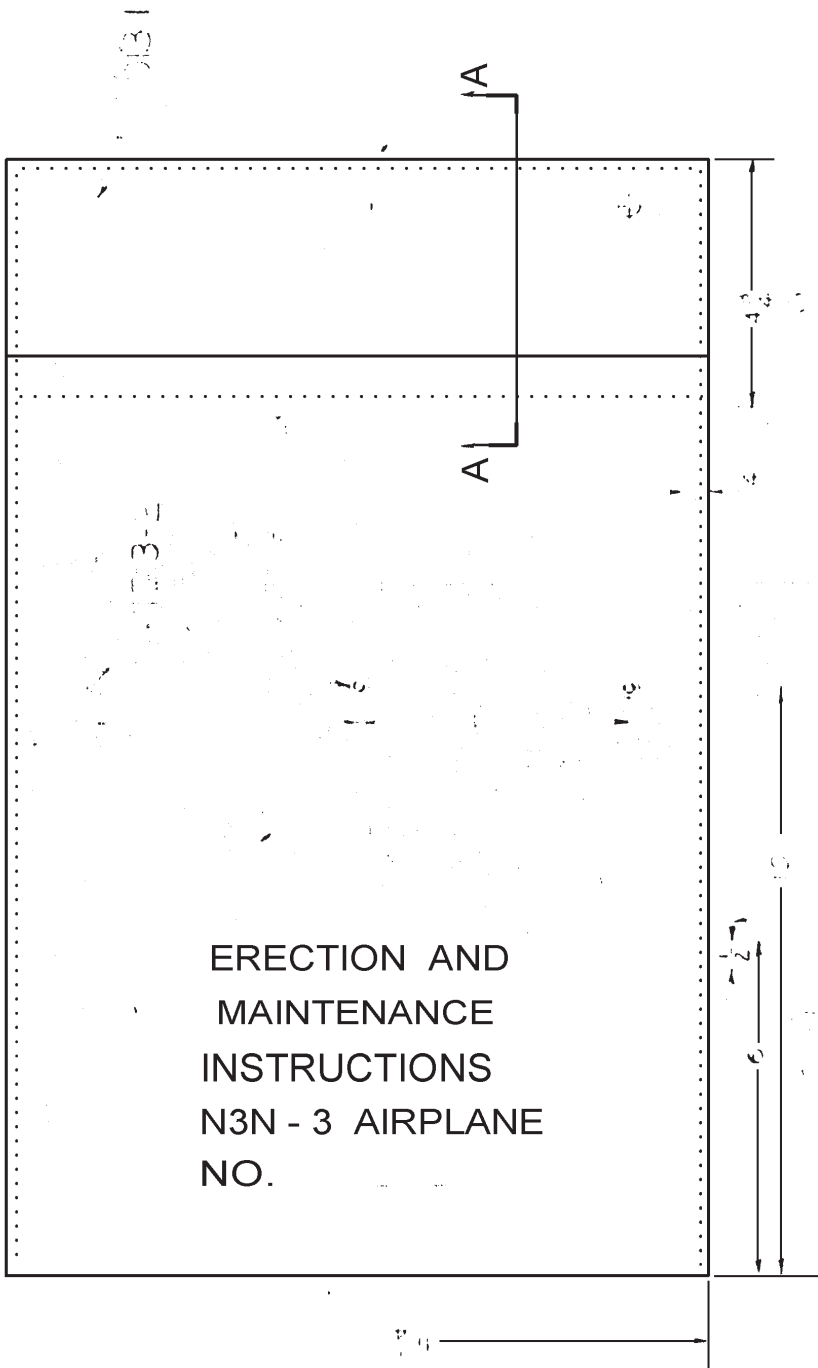
STRAP

SCALE FULL SIZE

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

310794

310799



ERECTION AND
MAINTENANCE
INSTRUCTIONS
N3N - 3 AIRPLANE
NO.



SECTION A - A

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT	ACT. WT
2	310799-1	1013-2	STUD SOCKET ASSEM STD								
2	310799-1	1013-1	BUTT ON SOCKET ASSEM STD								
1	310799-1	310799-2	CONTAINER	12 3/4 x 36	FABRIC	M-28					
1	56721-1	310799-1	CONTAINER ASSEMBLY								

DRAWN		CHECKED		SUPERVISOR		STRUCTURE		CHIEF DRAFT.		PROJ. ENG.		ASST. CHIEF. ENG.		APPROVAL	
A. MATZ		D. S. COMBET		D. S. COMBET		D. S. COMBET		D. S. COMBET		D. S. COMBET		D. S. COMBET		D. S. COMBET	
1-23-40		1-24-40		1-25-40		1-25-40		1-25-40		1-25-40		1-25-40		1-25-40	

DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ± 0.010. ANGLES ± 1/4°. UNLESS OTHERWISE NOTED.	
N3N-3		CONTAINER - ERECTION AND MAINTENANCE INSTRUCTIONS - ASSEM.	
SUPERSEDED BY		SCALE 1/2" = 1'-0"	
REF. DRAWING NO.		310799	
SUPERSEDED BY		NAVAL AIRCRAFT FACTORY PHILADELPHIA	

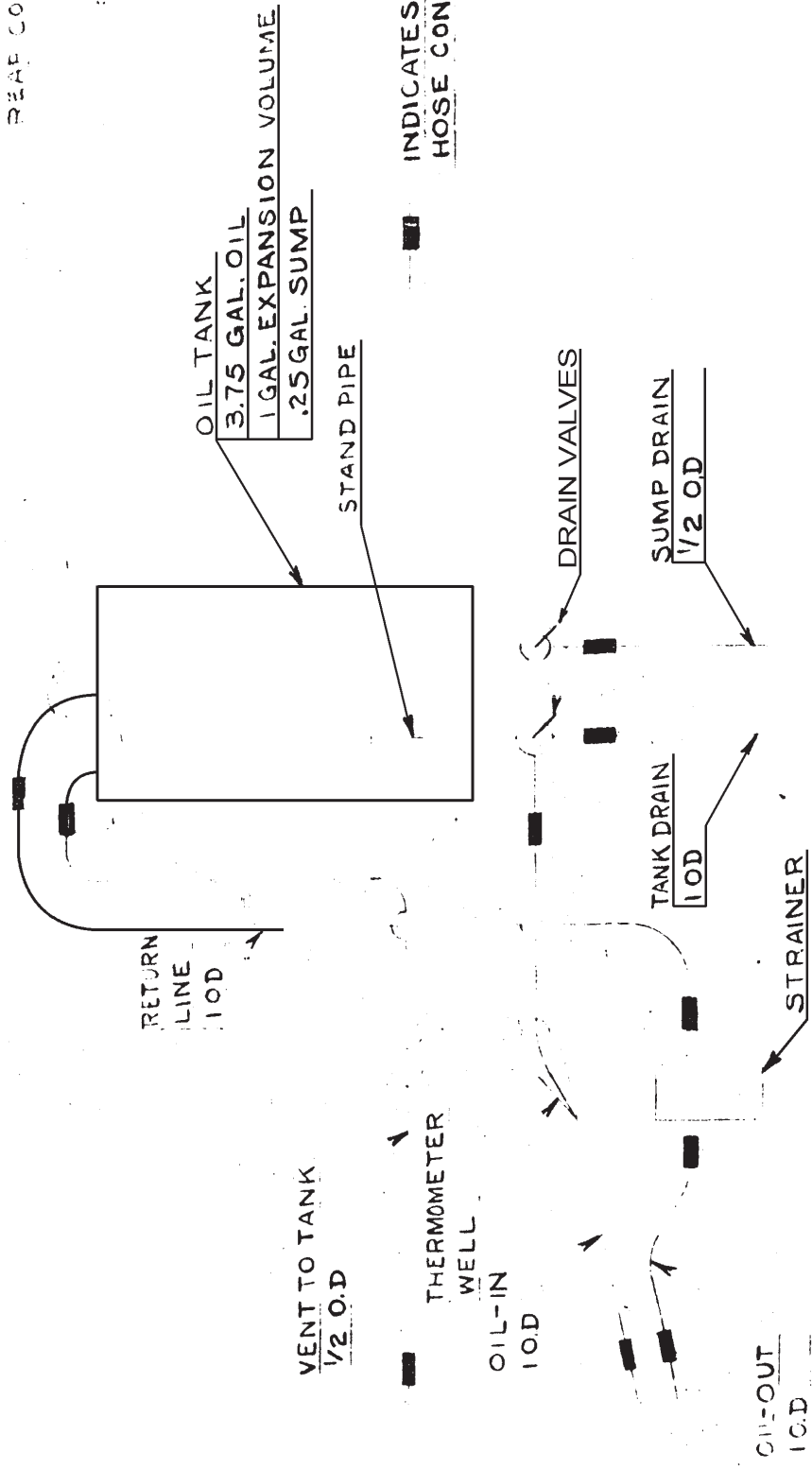
310822

OIL PRESSURE 1/4 O.D.

310519 (REF)

CLEAN THERMOMETER LINES

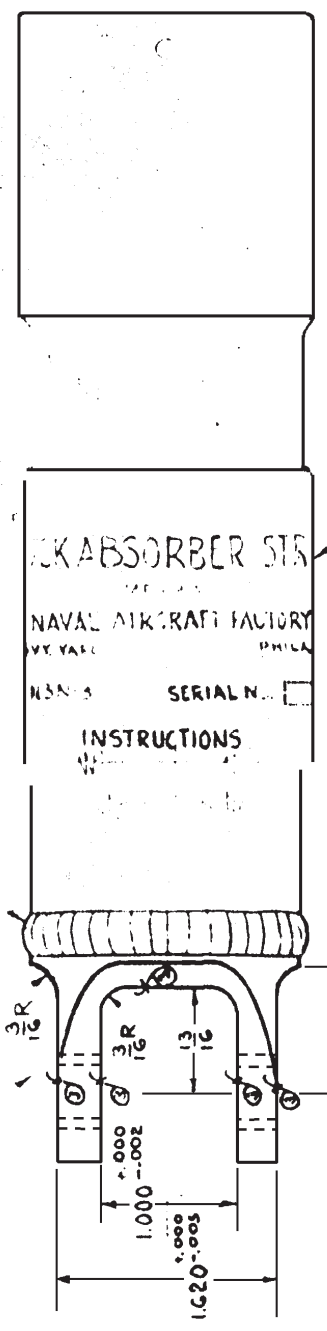
REAR COCKPIT



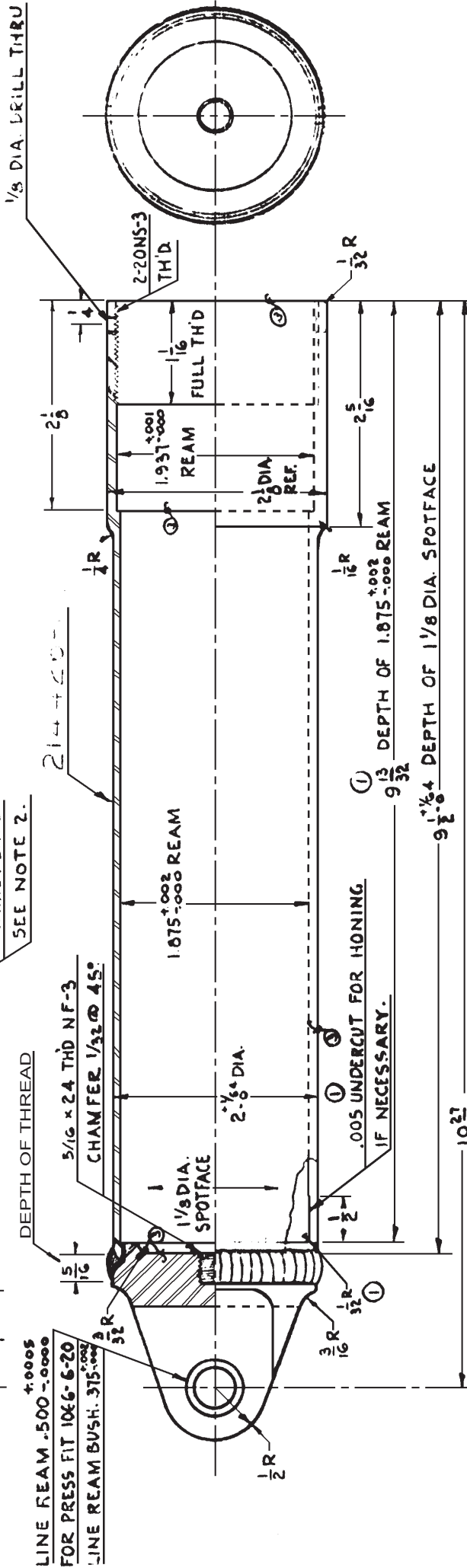
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	SPEC.	HT. T.	U.T.	FINISH	EST. WT.
1	310822								
DIMENSIONS ARE IN INCHES. LIMITS ± DECIMALS ± .010. ANGLES ± 1/4°. UNLESS OTHERWISE NOTED.									
DRAWN		3-20-40							
CHECKED		ROSS							
SUPERVISED		3-21-40							
STRUCTURE									
CHIEF DRAFT.		3-22-40							
PROJ. ENG.		3-22-40							
ASST. CHIEF ENG.									
APPROVAL		3/22/41							
ALTERNATIONS									
OIL SYSTEM DIAGRAM R-760-28-8 ENGINE									
SUPERSEDED BY									
NONE									
REF. DRAWING NO. 310822									
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA									

- ① BUFF
- ② HAND FINISH OF BRISTLE FILE OF BRIST
- ③ SMOOTH MACH. SAND BLAST
- ④ REMOVE FIMS AND SPRUES.
- ⑤ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.

-2 WELD ASSEM.
-1 CYL. SUB-ASSEM.



NAMEPLATE
SEE NOTE 2.



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT	ACT. WT
1	310888-1	E310806-1	NAMEPLATE	STANDARD							
2	310888-1	1066-C-20	BUSHING	STANDARD							
1	310888-2	214417-1	TERMINAL								
1	310888-2	214426-1	TUBE								
1	310888-1	310888-2	WELD ASSEMBLY								
1	46642-4	310888-1	CYLINDER SUB-ASSEMBLY								

① PH5-10 150,000 PSI NOTE 1

AS STD

NOTES:

- 1. FINISH EXTERIOR SURFACES PF-1-68.
- 2. SOLDER NAMEPLATE IN PLACE BEFORE PAINTING CYLINDER.

DESIGNED FOR
DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ±.010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.

ALTERATIONS
 0-26-40
 REAM WELDING
 8-15-40
 APPROVAL
 DAPUZIO 8-8-40
 CHECKED 8-9-40
 SUPERVISOR
 STRUCTURE
 CHIEF DRAFT.
 PROJ. ENG.
 ASST. CHY. ENG.
 APPROVAL

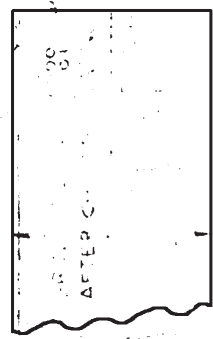
←-DESIGNED FOR
DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ±.010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT	ACT. WT
----------	--------	----------	------	-------	----------	-------	--------	--------	--------	---------	---------

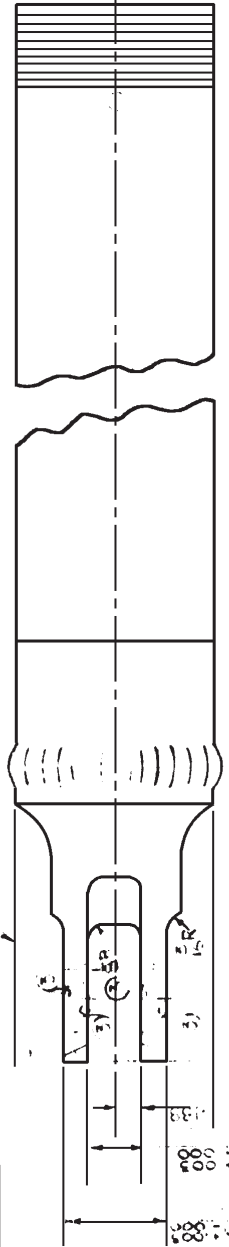
CYLINDER - TAIL WHEEL	
SHOCK STRUT - SUB ASSEM.	
SUPERSEDED BY	SCALE
310888	FULL SIZE
REF. DRAWING NO.	NARY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

WUOVIC

- ① BUFF
- ② HAND FINISH
- ③ SMOOTH MACH.
- ④ REMOVE FINES AND SPRUES.
- ⑤ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.
- ⑥ ROUGH MACH.
- ⑦ HORN FILE OR 6"INO
- ⑧ SAND BLAST
- ⑨ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.



① LINE REAM .575 \pm .006
 FOR PRESS FIT
 BUSHING 1.000 \pm .010
 LINE REAM BUSHING
 .575 \pm .006



-2 WELD ASS'Y
-1 SUB ASS'Y

NOTE :-

- 1 FINISH CADMIUM PLATED PORTION ONLY - PF-1-86
- 2 CHROME PLATE TO BE IN ACCORDANCE WITH SPEC. P-44-2

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
1	NSN-3	310890-1	PISTON-SUB-ASSEM							
1		46642-3	PISTON-SUB-ASSEM							
1		310890-2	WELD ASSEMBLY							
1		310890-1	PISTON-SUB-ASSEM							
1		310890-2	TUBE PISTON ROUGH							
1		310890-2	TUBE FILLER							
1		310890-1	TERMINAL ROUGH							
1		310890-1	PISTON-SUB-ASSEM							
1		310890-1	PISTON-SUB-ASSEM							
1		310890-1	PISTON-SUB-ASSEM							

PISTON

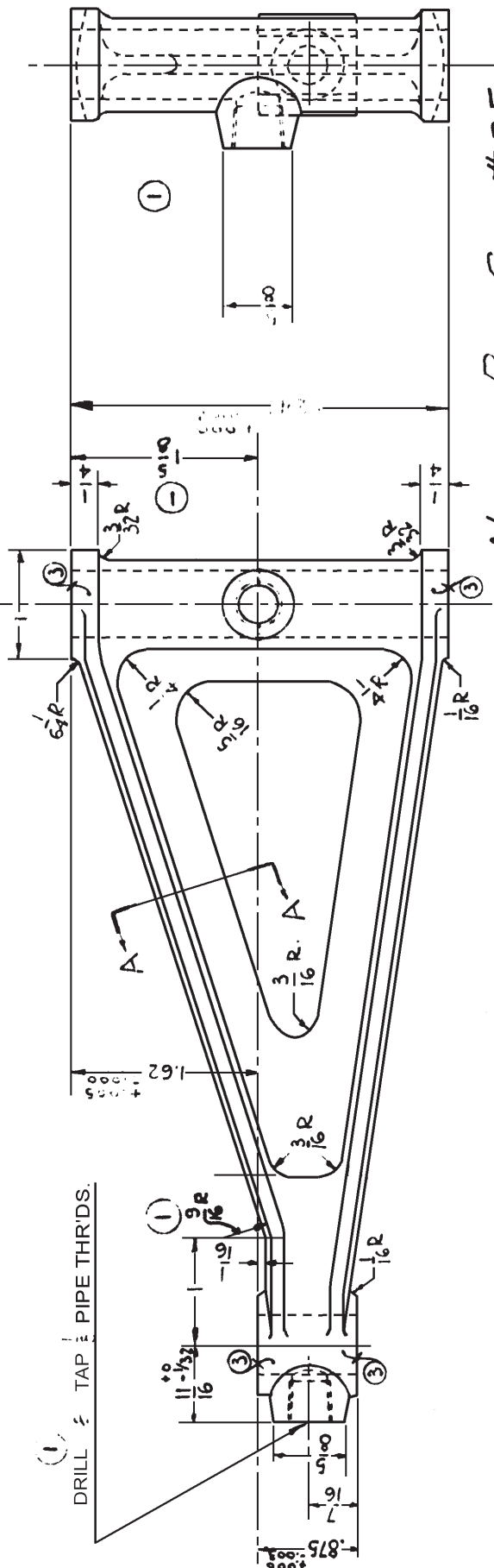
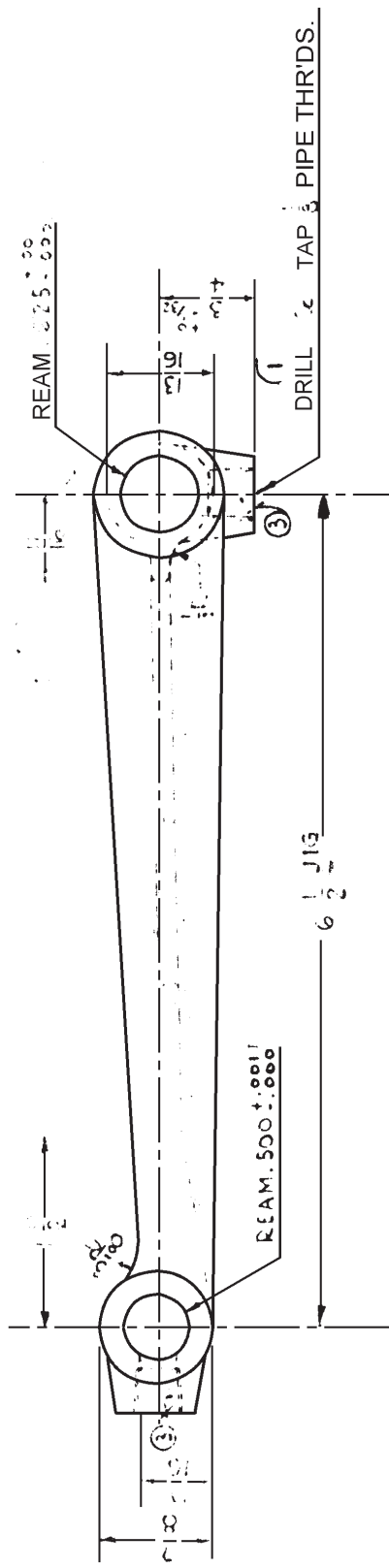
TAIL WHEEL - SHOCK STRUT - SUB ASSEM.

SCALE: FULL SIZE
 SUPERSEDED BY: 310890
 REF. DRAWING NO.:
 NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

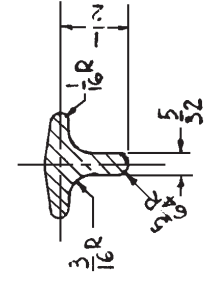
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
1	NSN-3	310890-1	PISTON-SUB-ASSEM							
1		46642-3	PISTON-SUB-ASSEM							
1		310890-2	WELD ASSEMBLY							
1		310890-1	PISTON-SUB-ASSEM							
1		310890-2	TUBE PISTON ROUGH							
1		310890-2	TUBE FILLER							
1		310890-1	TERMINAL ROUGH							
1		310890-1	PISTON-SUB-ASSEM							
1		310890-1	PISTON-SUB-ASSEM							

102012

- ① BUFF
- ② HAND FINISH
- ③ SMOOTH MACH.
- ④ ROUGH MACH.
- ⑤ MOUNT FILE OR GRIND
- ⑥ SAND BLAST
- ⑦ REMOVE FINES AND SPRUES
- ⑧ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED



NOTE: BU. CHG #35
SHOULD BE INCORPORATED.



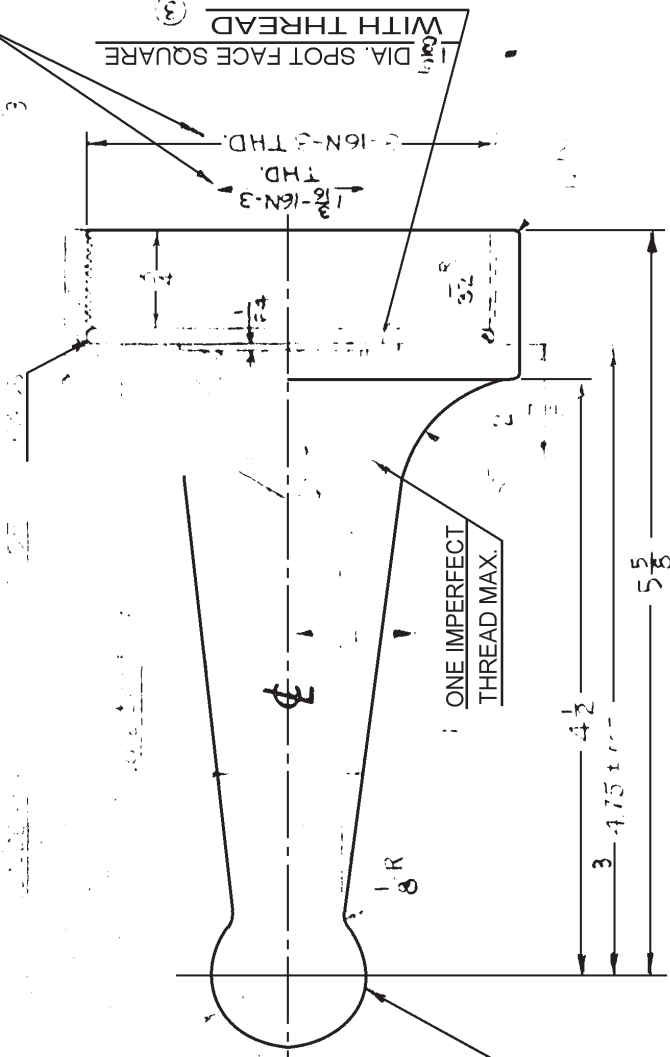
SECT. A-A

2	68374	310891-1	ARM	FORGING	STEEL	46523	PHS-10	125000	FF-183	1.2	1.2
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
DESIGNED FOR				DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± 0.10, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.							
N3N-3				ALTERNATIONS							
REMOVED 1.62 DIAMEN				101040							
ADDED 1 5/8. ADDED				LORENZ							
9/16 R				8-27-40							
D. DATE				8-28-40							
CHECKED				Lorenz							
SUPERVISOR				L. L. ...							
STRUCTURE				830-40							
CHIEF DRAFT.				B-30-40							
PROJ. ENG.				H. ...							
ASST. CH.F. ENG.				C. ...							
APPROVAL				3-90							
SCALE				310891							
SUPERSEDED BY				NAVAL AIRCRAFT FACTORY PHILADELPHIA							
FULL SIZE				LANDING GEAR - SHOCK STRUT - TORQUE							

310892

- ① BUFF
- ② HAND FINISH
- ③ SMOOTH MACH.
- ④ ROUGH MACH.
- ⑤ ROUGH FILE OR GRIND
- ⑥ SAND BLAST
- ⑦ REMOVE FINES AND SPRUES.
- ⑧ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED.

BOTH THREADS TO BE CON-CENTRIC WITH $\frac{1}{4}$ WITHIN .005

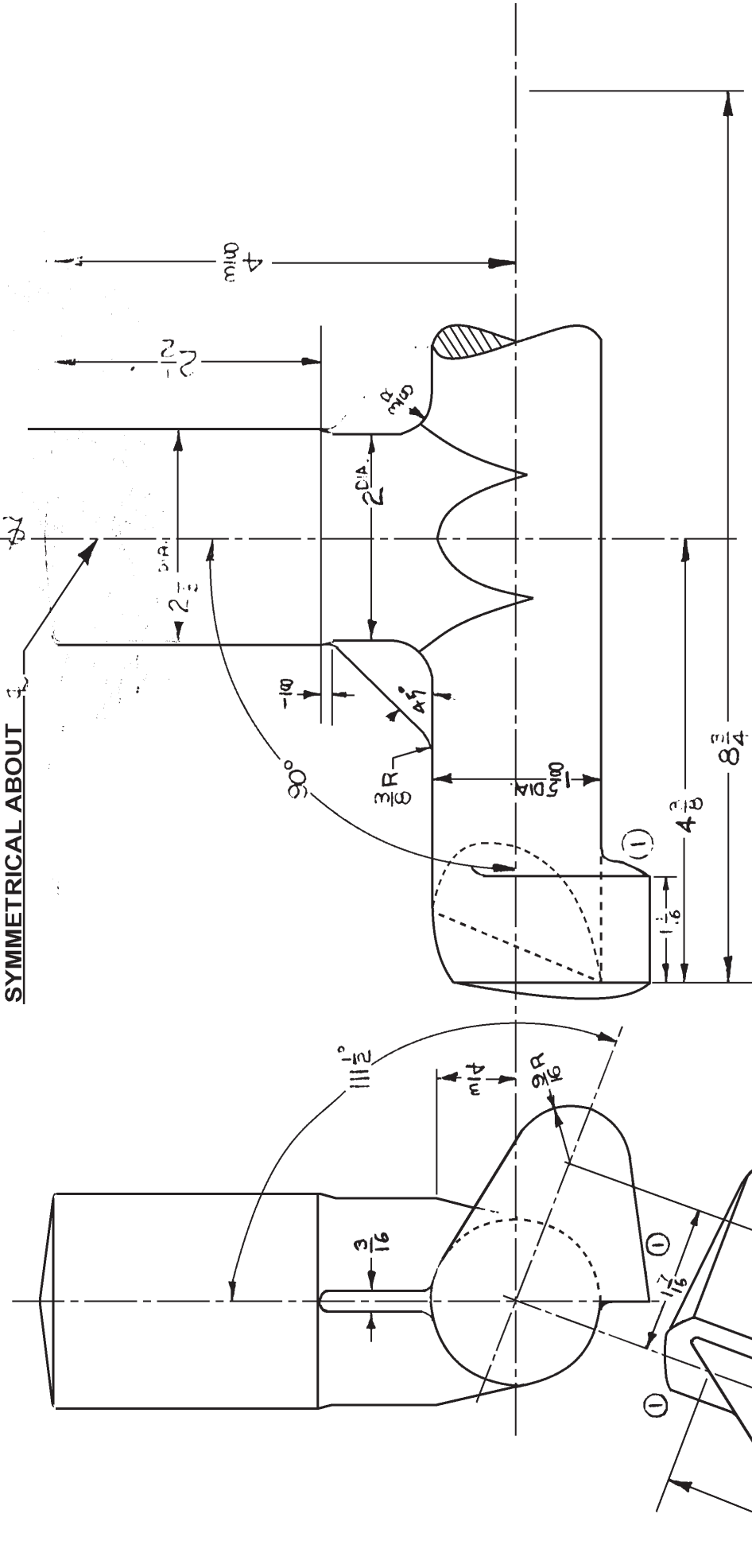


SPHERE TO BE FREE OF TOOL MARKS - POLISH

1	168374-1	ASSEM.	310892-1	TERMINAL	FORGING	STEEL	2533 (G.A.S.R.)	PH 5-10	150.000	HT. T.	1/16	FINISH	EST. WT.	ACT. WT.
<p>NO. REQ. ASSEM. PART NO. NAME STOCK</p> <p>DESIGNED FOR: BEIL 8-8-40</p> <p>DRAWN: TRACED</p> <p>CHECKED: [Signature] 8-29-40</p> <p>SUPERVISOR: [Signature] 8-29-40</p> <p>STRUCTURE: [Signature] 12-8-40</p> <p>CHIEF DRAFT: [Signature] 5-26-40</p> <p>PROJ. ENG.: [Signature] 9-2-40</p> <p>ASST. CRT. ENG.: [Signature] 9-5-40</p> <p>APPROVAL: [Signature]</p>														
<p>ALTERNATIONS</p> <p>① 10-6-40 10-6-40 DRILL: 3/8 SPOTFACE REMOVED BIZ T.OUS WAS .025 ± .010</p> <p>② 11-25-40 3/8 WAS 3/4 7/8 WAS 3/4</p> <p>③ 2-6-41 TRICITY ADDED. YAC & THREAD CONCEN-</p>														
<p>DIM. 4.75 ± .005 SPOTFACE</p>														
<p>SCALE: FULL SIZE</p> <p>REF. DRAWING NO.: 310892</p> <p>SUPPERSEDED BY: [Blank]</p> <p>TERMINAL</p> <p>LANDING GEAR - SHOCK STRUT - UPPER</p> <p>NAVAL AIRCRAFT FACTORY PHILADELPHIA</p>														

10012

SYMMETRICAL ABOUT

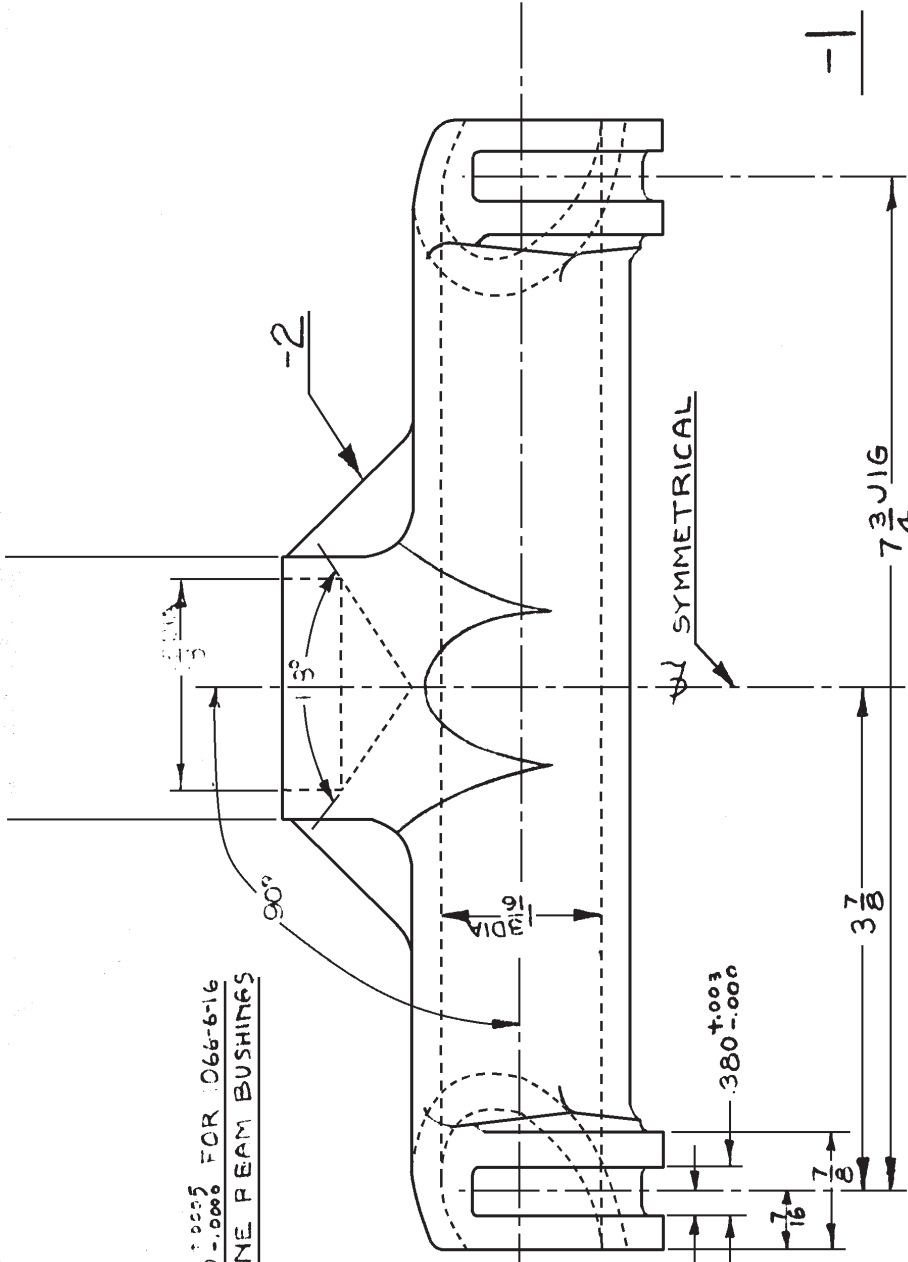


-1-

NO. REQ.	ASSEM.	PART NO.	NAME	FORGING	STOCK	ALLOY	SPEC.	SR.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
1	310902-2310901-1	TEE	TEE	CLAFIN	9-18-40	66A7	SR-53	55,000					
DIMENSIONS ARE IN INCHES. LIMITS ± DECIMALS ± 0.00 ANGLES ± 1°. UNLESS OTHERWISE NOTED.													
ALTERATIONS													
CHANGED SHAPE OF LUGS AND CLAFIN													
TO 4 3/16													
DRAFT ANGLES 7°													
TOLERANCES +3/64 -1/6 ± 1°													
BREAK SHARP CORNERS													
WITH 1/16 RADIUS													
GRAIN OF MATERIAL TO FOLLOW CONTOUR OF LUG													
ALL FILLET RADII 3/16													
SUPERSEDED BY													
SCALE													
FULL SIZE													
REF. DRAWING NO.													
NAVAL AIRCRAFT FACTORY PHILADELPHIA													
310901													
FORGING													

DRAFT ANGLES 7°
 TOLERANCES +3/64 -1/6 ± 1°
 BREAK SHARP CORNERS
 WITH 1/16 RADIUS
 GRAIN OF MATERIAL TO
 FOLLOW CONTOUR OF LUG
 ALL FILLET RADII 3/16

310902



BREAK CORNERS AS SHOWN $\frac{1}{16} \times 45^\circ$

4	310902-1066-6-16	BUSHING	STD						
1	310902-130802-2	TEE, MACHINED	310901-1						9R12
1	47514-1	310902-1	TEE ASSEM.						
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT. ACT. WT.

- ① BUFF
- ② ROUGH MACH
- ③ HARD FINISH
- ④ SAND BLAST
- ⑤ REMOVE FIBR AND SPRUES
- ⑥ FINISH ALL SURFACES NOT OTHERWISE SPECIFIED

N3N-3		DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± $\frac{1}{64}$ DECIMALS ± $\frac{1}{10}$ ANGLES ± $\frac{1}{4}$, UNLESS OTHERWISE NOTED.	
DRAWN	CLAFLIN	91040	
CHECKED	CLAFLIN	10-4-40	
SUPERVISOR	M.S. ROTM	10-14-40	
STRUCTURE	M.S. ROTM	10-14-40	
CHIEF DRAFT.	M.S. ROTM	10-14-40	
PROJ. ENG.	M.S. ROTM	10-14-40	
ASST. DFT. ENG.	M.S. ROTM	10-14-40	
APPROVAL			

DRAG LINK

TEE - TAIL WHEEL - ASSEMBLY

SCALE FULL SIZE

REF. DRAWING NO. **310902**

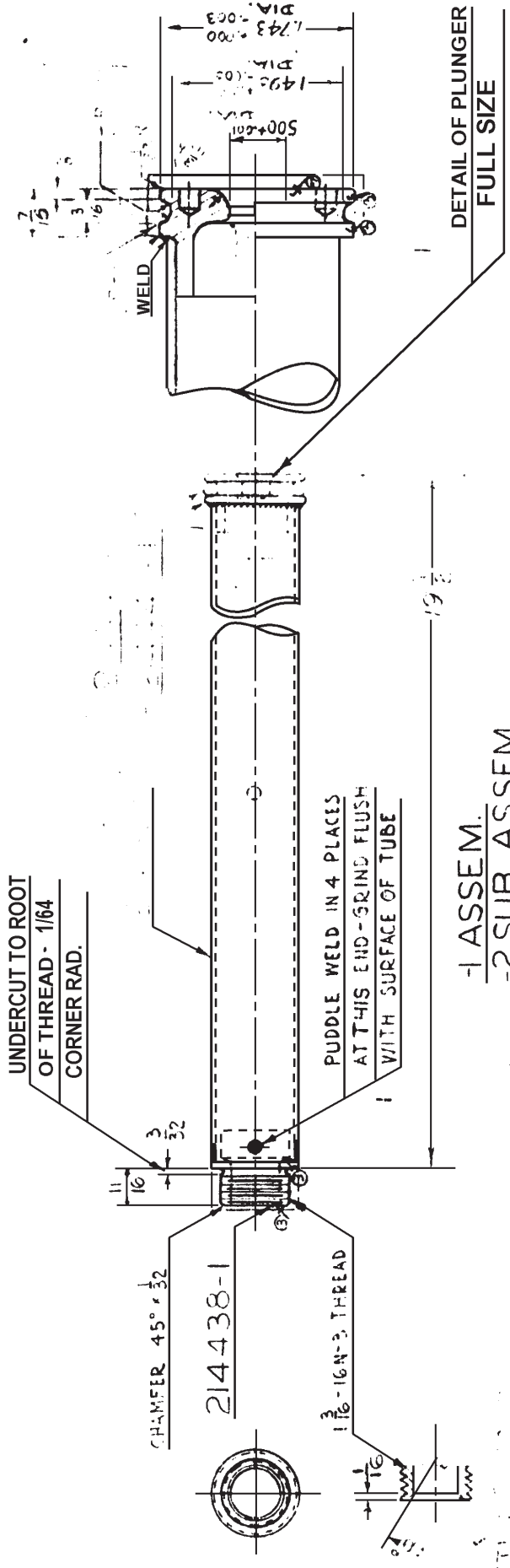
SUPERSEDED BY

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

60613

NOTES

1. ALL MACHINING TO BE CONCENTRIC WITH CENTERLINE OF HOLE.
 2. ALL MACHINING TO BE DONE AFTER HEAT TREATING.



-1 ASSEM.
 -2 SUB ASSEM.

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	U.T.	FINISH	EST. WT.	ACT. WT.
1	310909-1	214444-1	TERMINAL							.03
1	6	-2 214444-1	TERMINAL							.55
1	8	-2 214439-1	TUBE							1.58
1	0	-2 214438-1	TERMINAL							.25
1	310909-1	310909-2	PLUNGER SUB ASSEM.							2.38
1	66374-1	310909-1	PLUNGER ASSEM.							2.41

DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010 ANGLES ± 1/2° UNLESS OTHERWISE NOTED.

ALTERNATIONS

1	2-5-41	LORENZ	10-9-40
2	5-1-41	HAGEN	10-9-40

APPROVALS

DRAWN	LORENZ	10-9-40
CHECKED	HAGEN	10-9-40
SUPERVISOR	<i>[Signature]</i>	10-9-40
STRUCTURE		
CHIEF DRAFT	<i>[Signature]</i>	10-11-40
PROD. ENG.	<i>[Signature]</i>	10-11-40
ASST. CHY. ENG.	<i>[Signature]</i>	10-11-40
APPROVAL	<i>[Signature]</i>	10-11-40

310909

PLUNGER
 LAND GEAR SHOCK STRUT-ASSEM

SCALE: HALF SIZE

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

- 1 BUFF
- 2 HAND FINISH
- 3 REMOVE FINISH
- 4 REMOVE FINISH AND SPRUES
- 5 FINISH ALL SURFACES X01
- 6 BROUGH BACK
- 7 REMOVE FINISH FROM FILE ON WING
- 8 REMOVE FINISH FROM BLAST
- 9 FINISH ALL SURFACES X01 OTHERWISE SPECIFIED

38849

(10)

ALCOA DIE #K8665

SPEC. = 73" DIA. x .875" THK

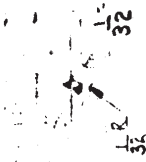
FULL SIZE



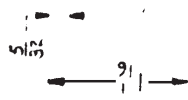
ALCOA DIE #K22563

SPEC. = 20" DIA. x .875" THK

FULL SIZE



-7



ALCOA DIE #K22563

SPEC. = 25" DIA. x .875" THK
FULL SIZE

NOTE: DRAWING FOR ALL DIMENSIONS TO BE IN ACCORDANCE WITH SPEC. 4689, TABLE VI

REPLACES DRAWING NO. 38849, PART AS NOTED HEREIN

-5

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	DESIGN UTG.	FINISH EST. WT. ACT. WT.
		-6	I-FLANGE		ALUMINUM 4689	SR-59	57	
		-7	T-SECTION					
		-6	T-FLANGE					
		-5	I-SECTION					
		-4	T-FLANGE					
		-3	ANGLE					
		-2	BULB ANGLE					
		-1	I-SECTION		ALUMINUM 4689	SR-59	57	

DIMENSIONS ARE IN INCHES. LIMITS ± DECIMALS ± .010. ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.

DESIGNED FOR			ALTERNATIONS		
DRAFTSMAN	KROLL	10-2-44	①	10-2-44	10-2-44
CHECKED	RBUFK	10-2-44			
SUPERVISOR	W. G. B. B.	10/2/44			
STRUCTURE	H. G. B. B.	10/2/44			
CHIEF DRAFT.	H. G. B. B.	10/2/44			
PROJ. ENG.	H. G. B. B.	10/2/44			
CONSERVATION	H. G. B. B.	10/2/44			
APPROVAL	H. G. B. B.	10/2/44			

SECTIONS EXTRUDED
WINGS - FLOATS & TAIL SURFACES

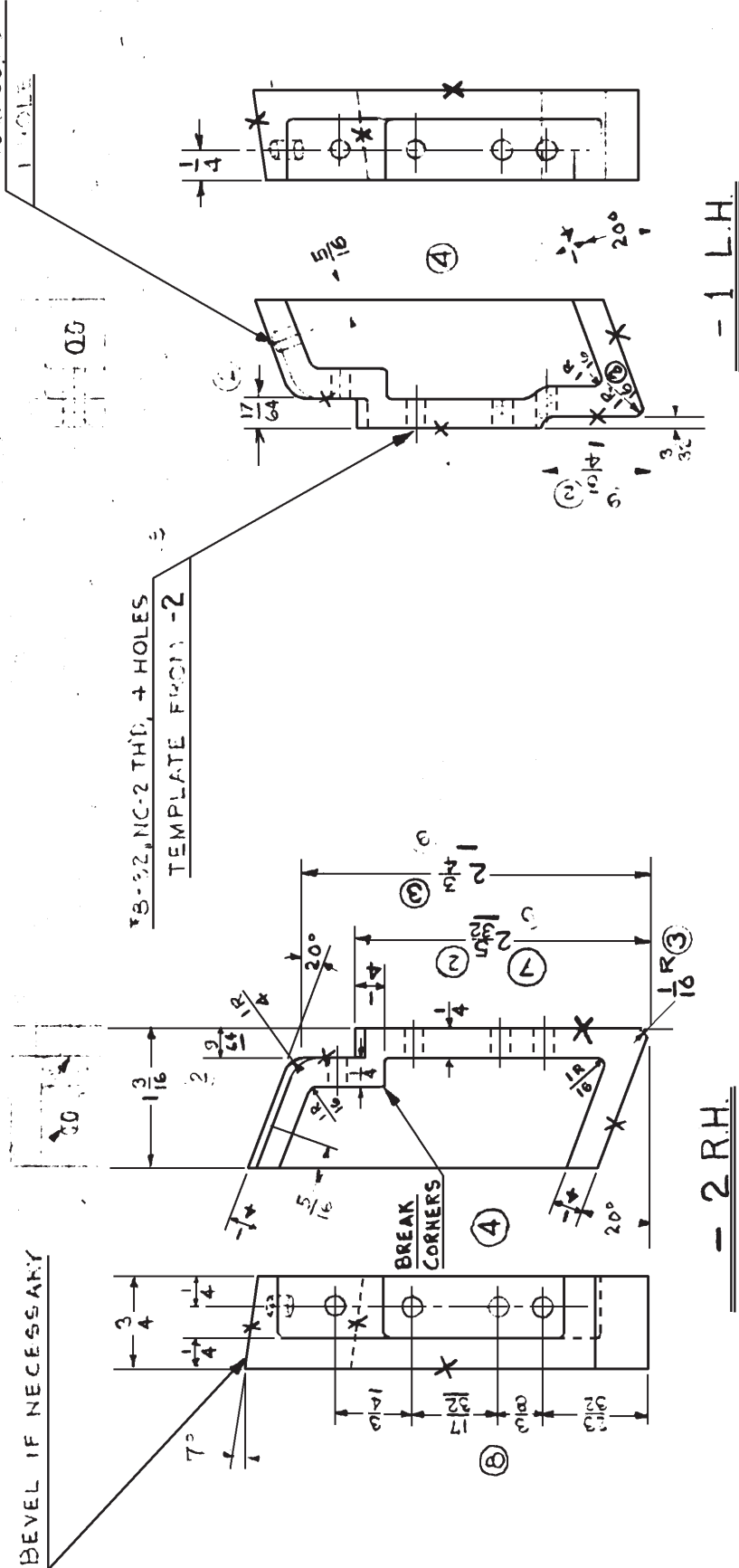
NOTED

38849

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

FINISH DRILL HOLES

BEVEL IF NECESSARY



NOTE: ALL FILLETS 1/16 R. UNLESS OTHERWISE NOTED

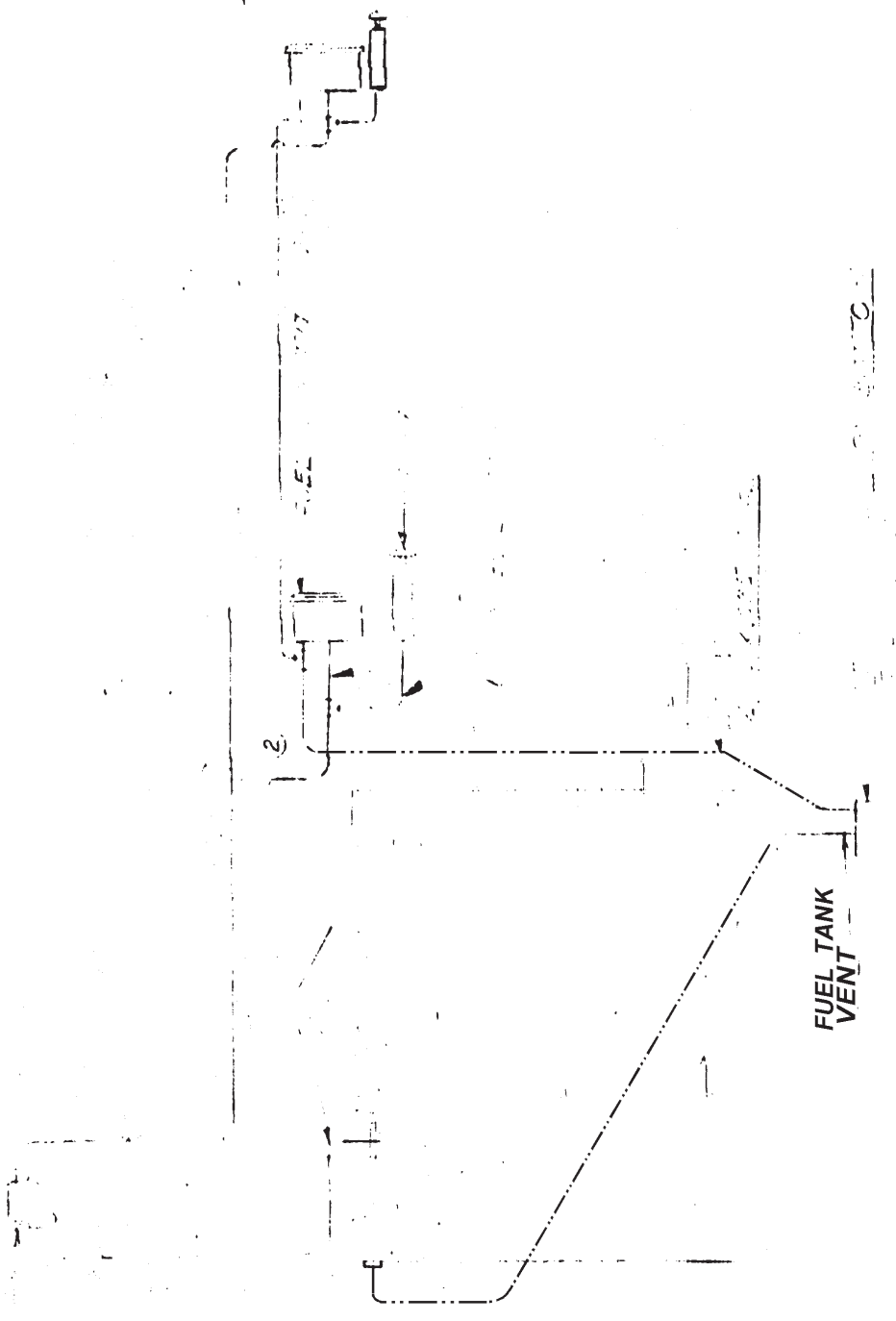
SURFACES MARKED X SHALL BE SMOOTH TO INSURE WATER TIGHT JOINTS, WHEN ASSEMBLED WITH FABRIC STOP WATERS.

DIMENSIONS NOT SHOWN SAME AS - 2

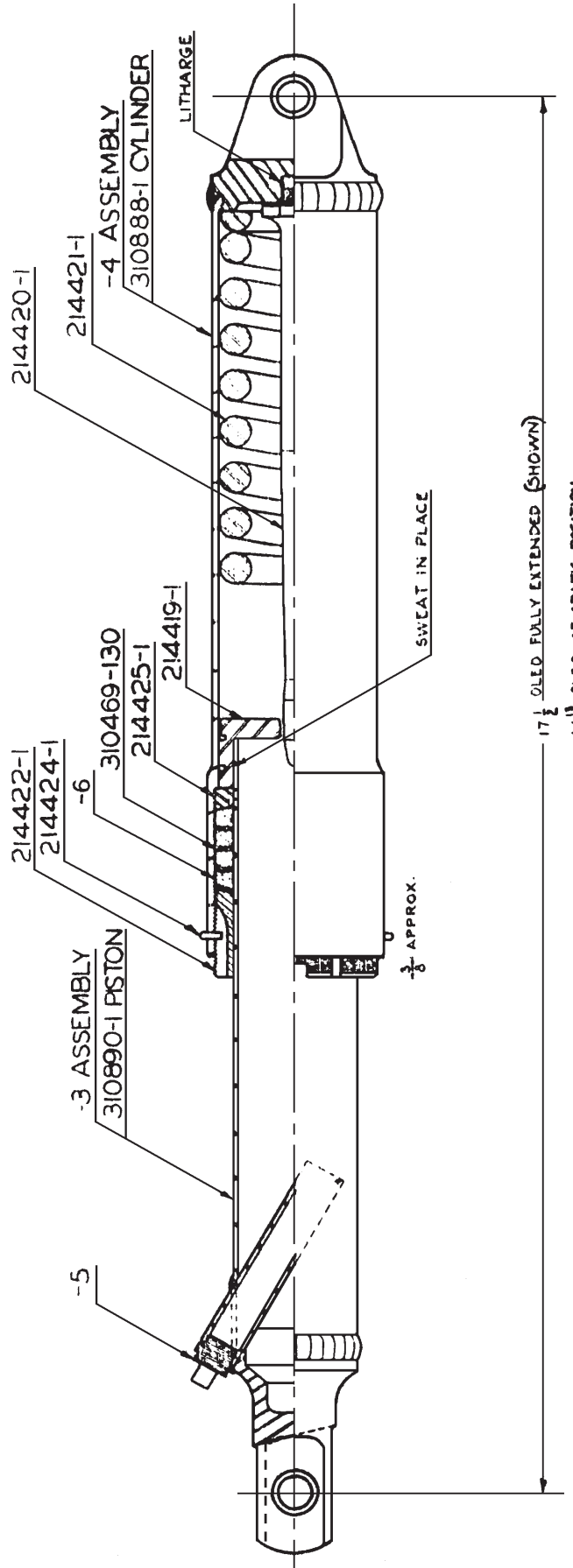
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	AL. ALLOY	CASTING	HT. T.	FINISH	EST. WT.	ACT. WT.
1	66650-1	-2	FITTING RH	CASTING	SA-8	29,000	29,000	1/5		
1	66650-1	-1	FITTING LH	CASTING	SA-8	29,000	29,000	1/5		

DRAWN		CHECKED		SUPERVISOR		STRUCTURE		CHIEF DRAFT.		PROJ. ENG.		ASST. CRT. ENG.		APPROVAL	
DEITS	4-15-35														
SUPERSEDED BY		SCALES		FULL SIZE		REF. DRAWING NO.		SUPERSEDER		3885 2		NAVAL AIRCRAFT FACTORY		PHILADELPHIA	

ALTERATIONS	
①	9-18-35
②	2-2-34
③	9-22-36
④	12-27-37
⑤	8-25-38
⑥	8-17-39
⑦	10-23-39
⑧	3-6-41
⑨	2-10-41



3 N3N-3	NO. REQ. N3N-1 B	ASSEM. XN3N-1	PART NO. DESIGNED FOR	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U. T.	FINISH	EST. WT.	ACT. WT.
ALTERATIONS (1) 8-1-35 Model N3N-1 Added (2) 12-3-36 SVD VALVE REVISED. G.W.B. (3) 12-23-39 SVD HOOPER CHECK VALVE RELOCATED												
DRAWN TRACED <i>W.H. HARRIS</i> 5-7-35 CHECKED <i>W.H. HARRIS</i> SUPERVISOR <i>J. HARRIS</i> 5/14/35 STRUCTURE <i>W.H. HARRIS</i> CHIEF DRAFT <i>W.H. HARRIS</i> PROJ. ENG. <i>W.H. HARRIS</i> 5-15 ASST. CRT. ENG. <i>W.H. HARRIS</i> 5/16 APPROVAL <i>W.H. HARRIS</i> 5/14/35												
SUPPERSEDED BY SCALE 70' 5/16" 5 REF. DRAWING NO. NAVAL AIRCRAFT FACTORY PHILADELPHIA 38858 GAGE - HYDROSTATIC FUEL - DIAGRAM. J5 & J6 ENG.												



17 1/2 OILED FULLY EXTENDED (SHOWN)
 14 11/16 OILED AT STATIC POSITION
 14 OILED FULLY COMPRESSED

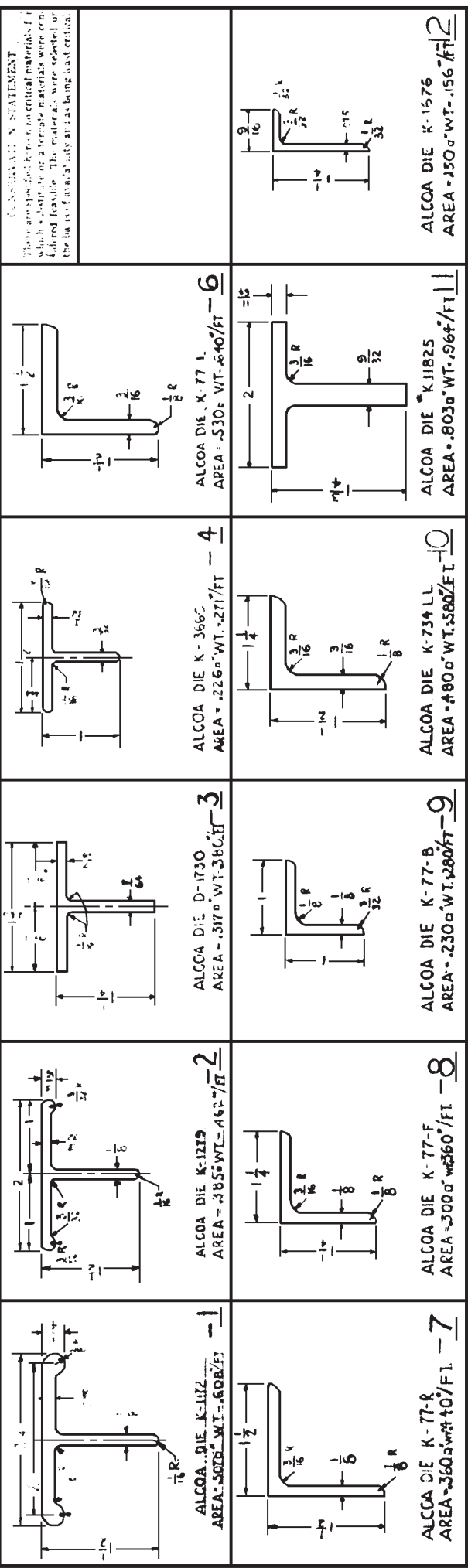
NOTE

PACKING SHALL BE 1/4 SQ BRAIDED ASBESTOS WITH COPPER WIRE INSERTION TREATED WITH HEAT RESISTING LUBRICANT & GRAPHITED.

NO. REQ.	ASSEMBLY	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
2	46642-2	—	OIL-MINERAL							
1	4	1-3	3045-50 GASKET							
1		1-3	214425-1 RETAINER RING							
1		1-3	214424-1 LOCK WIRE							
1		1-3	214427-1 PACKING LOCK MAT							
1		1-2	214421-1 SPRING							
1		1-4	214420-1 METERING PIN							
1		1-3	214419-1 PISTON HEAD							
1		1-4	30888-1 CYLINDER							
1		1-3	30890-1 PISTON							
4		1-3	46642-6 PACKING							
1		1-2	1/4 SQ 1/8 PIPE, SQUARE HEAD							
1		1-2	1/4 CYLINDER ASSEMBLY							
1	46642-2	1-3	PISTON ASSEMBLY							
1	67709-1	1-3	SHOCK STRUT ASSEMBLY							
W									5.7	

DESIGNED FOR	DIMENSIONS ARE IN INCHES, LIMITS ARE DECIMALS UNLESS OTHERWISE NOTED.										
SCALE	AS SHOWN	APPROVED	[Signature]								
CHECKED		SUPERVISOR		[Signature]							
STRUCTURE		CHIEF DRAFT		[Signature]							
PROJ. ENG.		APP. ENG.		[Signature]							
MAT. CONT. ENG.		APPROVAL		[Signature]							
ALTERATIONS	5-20-60										
5-20-60											
5-20-60											
5-20-60											
5-20-60											
5-20-60											
5-20-60											
5-20-60											
5-20-60											
5-20-60											
5-20-60											

SHOCK — TAIL WHEEL ASSEMBLY
 SUPPERSEDES BY
46642-2
 REF. DRAWING NO.
 FULL SIZE
 NAVAL AIRCRAFT FACTORY PHILADELPHIA



GENERAL STATEMENT:
These are specifications for non-critical materials. If which a substitute or alternate materials were considered, the materials were selected on the basis of availability and as being least critical.

NOTE:- TOLERANCES FOR ALL DIMENSIONS TO BE IN ACCORDANCE WITH SPEC 46A9 (FOR 1-10-17 INCLUSIVE) OR 46A9 (-18) TABLE VII - HEAT TREATED SHADES EXTRUDED EXCEPT AS NOTED HEREON.

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	FINISH	EST. WT. ACT. WT.
NSN-12	XN3N-1	46647-1	ANGLE		AL ALLOY 46A9			
		46647-1R	ANGLE		AL ALLOY 46A9			
		-17	T SECTION					50,000
		-16	T SECTION					87,000
		-15	T SECTION					
		-14	T SECTION					
		-13	EDGE					
		-12	ANGLE					
		-11	T SECTION					
		-8	ANGLE					
		-7	ANGLE					
		-6	ANGLE					
		-5	ANGLE					
		-4	T SECTION					
		-3	T SECTION					
		-2	T SECTION					
		46647-1	T-SECTION		AL ALLOY 46A9			87,000

SECTION 1
ALCOA DIE K-1112
AREA = .508 WT-.608/FT. -1

SECTION 2
ALCOA DIE K-1119
AREA = .385 WT-.462/FT. -2

SECTION 3
ALCOA DIE D-1730
AREA = .317 WT-.366/FT. -3

SECTION 4
ALCOA DIE K-366C
AREA = .226 WT-.271/FT. -4

SECTION 5
ALCOA DIE K-77-B
AREA = .230 WT-.280/FT. -5

SECTION 6
ALCOA DIE K-77-1
AREA = .530 WT-.640/FT. -6

SECTION 7
ALCOA DIE K-77-R
AREA = .360 WT-.40/FT. -7

SECTION 8
ALCOA DIE K-77-F
AREA = .300 WT-.360/FT. -8

SECTION 9
ALCOA DIE K-77-B
AREA = .230 WT-.280/FT. -9

SECTION 10
ALCOA DIE K-734 LL
AREA = .480 WT-.580/FT. -10

SECTION 11
ALCOA DIE K-14052
AREA = .077 WT-.082/FT. -11

SECTION 12
ALCOA DIE K-728
AREA = .576 WT-.576/FT. -12

SECTION 13
ALCOA DIE K-6086
AREA = .164 WT-.196/FT. -13

SECTION 14
ALCOA DIE K-727
AREA = .762 WT-.922/FT. -14

SECTION 15
ALCOA DIE K-5102
AREA = .1319 WT-.1576/FT. -15

SECTION 16
ALCOA DIE K-14052
AREA = .077 WT-.082/FT. -16

SECTION 17
ALCOA DIE K-728
AREA = .576 WT-.576/FT. -17

SECTION 18
ALCOA DIE K-14052
AREA = .077 WT-.082/FT. -18

SECTION 19
ALCOA DIE K-11825
AREA = .803 WT-.964/FT. -19

SECTION 20
ALCOA DIE K-1576
AREA = .156 WT-.156/FT. -20

SECTIONS - EXTRUDED
FUSELAGE

DRAWN BY: [Signature]
CHECKED BY: [Signature]
SUPERVISOR: [Signature]
STRUCTURE: [Signature]
CHIEF DRAFT: [Signature]
PROJ. ENG.: [Signature]
EST. CHG. BAK: [Signature]

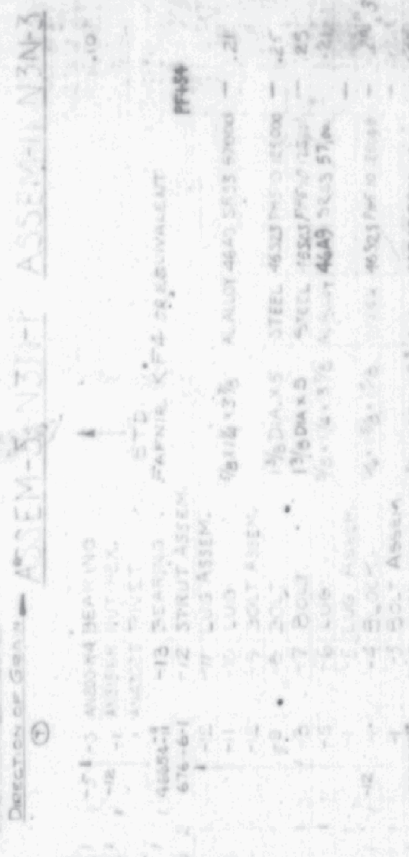
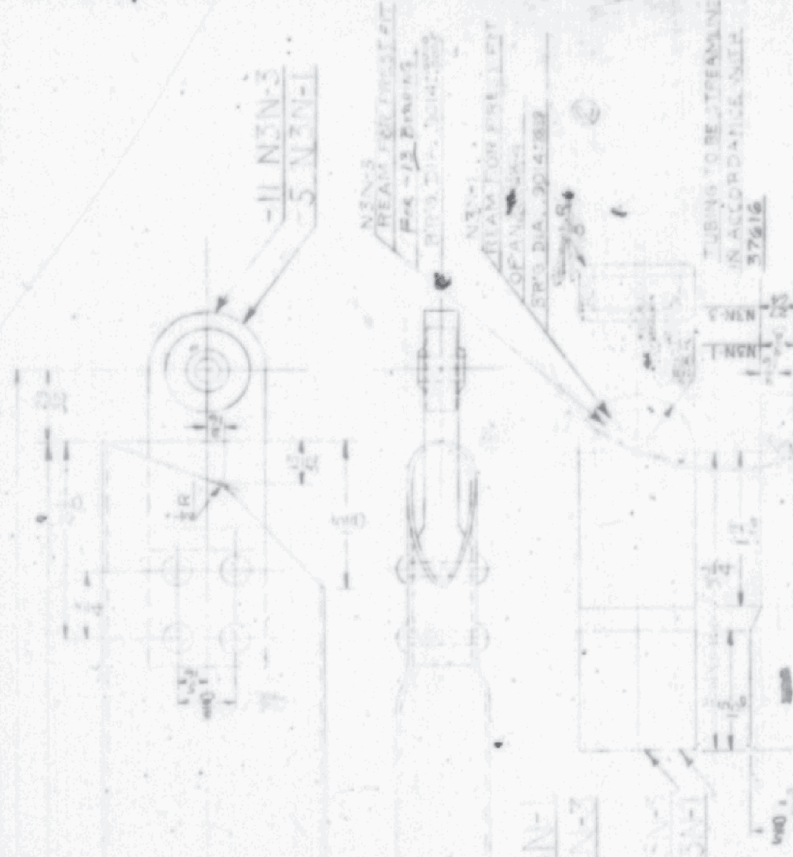
APPROVAL:

SCALE: FULL SIZE

SUPERSEDED BY: 46647

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

14-115



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	QTY. REQ.	QTY. ON HAND
1	ASSEM N3N-3	1-40004-1	BEARING		STEEL	1	
1	ASSEM N3N-3	1-13	BEARING		STEEL	1	
1	ASSEM N3N-3	1-12	BEARING		STEEL	1	
1	ASSEM N3N-3	1-11	BEARING		STEEL	1	
1	ASSEM N3N-3	1-10	BEARING		STEEL	1	
1	ASSEM N3N-3	1-9	BEARING		STEEL	1	
1	ASSEM N3N-3	1-8	BEARING		STEEL	1	
1	ASSEM N3N-3	1-7	BEARING		STEEL	1	
1	ASSEM N3N-3	1-6	BEARING		STEEL	1	
1	ASSEM N3N-3	1-5	BEARING		STEEL	1	
1	ASSEM N3N-3	1-4	BEARING		STEEL	1	
1	ASSEM N3N-3	1-3	BEARING		STEEL	1	
1	ASSEM N3N-3	1-2	BEARING		STEEL	1	
1	ASSEM N3N-3	1-1	BEARING		STEEL	1	

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	QTY. REQ.	QTY. ON HAND
1	ASSEM N3N-1	1-40004-1	BEARING		STEEL	1	
1	ASSEM N3N-1	1-13	BEARING		STEEL	1	
1	ASSEM N3N-1	1-12	BEARING		STEEL	1	
1	ASSEM N3N-1	1-11	BEARING		STEEL	1	
1	ASSEM N3N-1	1-10	BEARING		STEEL	1	
1	ASSEM N3N-1	1-9	BEARING		STEEL	1	
1	ASSEM N3N-1	1-8	BEARING		STEEL	1	
1	ASSEM N3N-1	1-7	BEARING		STEEL	1	
1	ASSEM N3N-1	1-6	BEARING		STEEL	1	
1	ASSEM N3N-1	1-5	BEARING		STEEL	1	
1	ASSEM N3N-1	1-4	BEARING		STEEL	1	
1	ASSEM N3N-1	1-3	BEARING		STEEL	1	
1	ASSEM N3N-1	1-2	BEARING		STEEL	1	
1	ASSEM N3N-1	1-1	BEARING		STEEL	1	

ASSEM-3 N3N-1
ASSEM-3 N3N-2
ASSEM-3 N3N-3
ASSEM-3 N3N-4

DETAIL-4

46654

NAVAL AIRCRAFT FACTORY

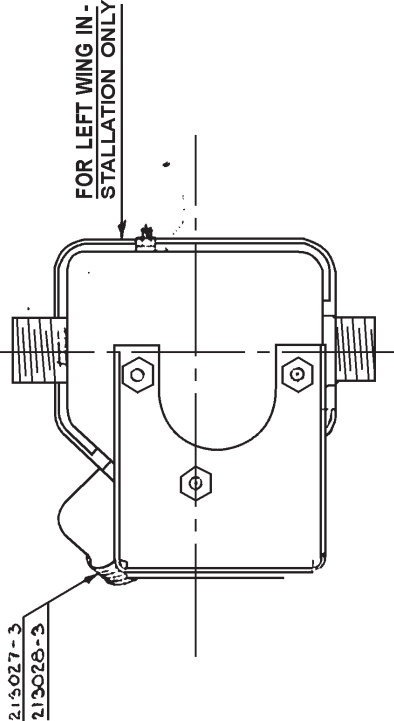
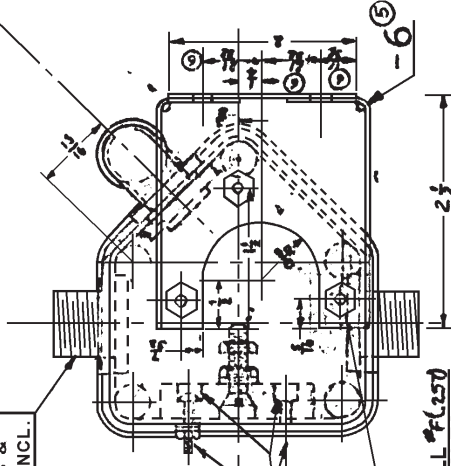
411 506A-1-3 (2 REQ'D.)
 411 506A-4 (2 REQ'D.)
 2 1/32 HOLE.

FOR RECORD ONLY
 213019-2 (2 REQ'D.)
 213028-3 (2 REQ'D.)
 2 3/32 HOLE
USED ON ALL N3N-1
AIRPLANES AND
N3N-3 AIRPLANES
 *1759 TO *1808 &
 *1908 TO *2007 INCL.

AN 520-D6-6
AN 345-D6
AN 940-D6
AN 935-6
PLACE HEADS ON
INSIDE

FILL WITH SEALING COMPOUND

**DRILL 7/8" DIA.
 2 HOLES**
AN 520-D6-6
AN 345-D6
AN 940-D6
AN 935-6
PLACE HEADS ON INSIDE



-1 ASSEMBLY (USED ON XN3N-1 ONLY)

FOR RECORD ONLY
 1149-6 (14)
 AN 3066-6
 2 1/32 HOLE
 213898-3 (10)
 213028-3
 2 3/32 HOLE
USED ON ALL N3N-1
AIRPLANES AND
N3N-3 AIRPLANES
 *1759 TO *1908 &
 *1908 TO *2007 INCL.

AN 510-B10-14
AN 935-402 REQ.
AN 345-D10
AN 960-B10

DRILL #28 (1409)
THRU. COUNTERBORE
9/16" DIA. 1/16" DEEP.
DRILL #10 (1935) THRU. COUNTERBORE
1 3/8" DIA. 1/16" DEEP & CSK
FILL WITH SEALING WAS.

-5 SUB ASSEM.

39922-10 JUNCTION BOX

-2 ASSEMBLY

- 2. DO NOT FINISH INSIDE OF JUNCTION BOX OR INSIDE OF BOX COVER.
- ALL PARTS TO MAKE GOOD METAL TO METAL CONTACT.

NOTE

12-18-40	10-8-40	8-40	7-3-40	7-3-40
12-18-40	10-8-40	8-40	7-3-40	7-3-40
12-18-40	10-8-40	8-40	7-3-40	7-3-40
12-18-40	10-8-40	8-40	7-3-40	7-3-40
12-18-40	10-8-40	8-40	7-3-40	7-3-40

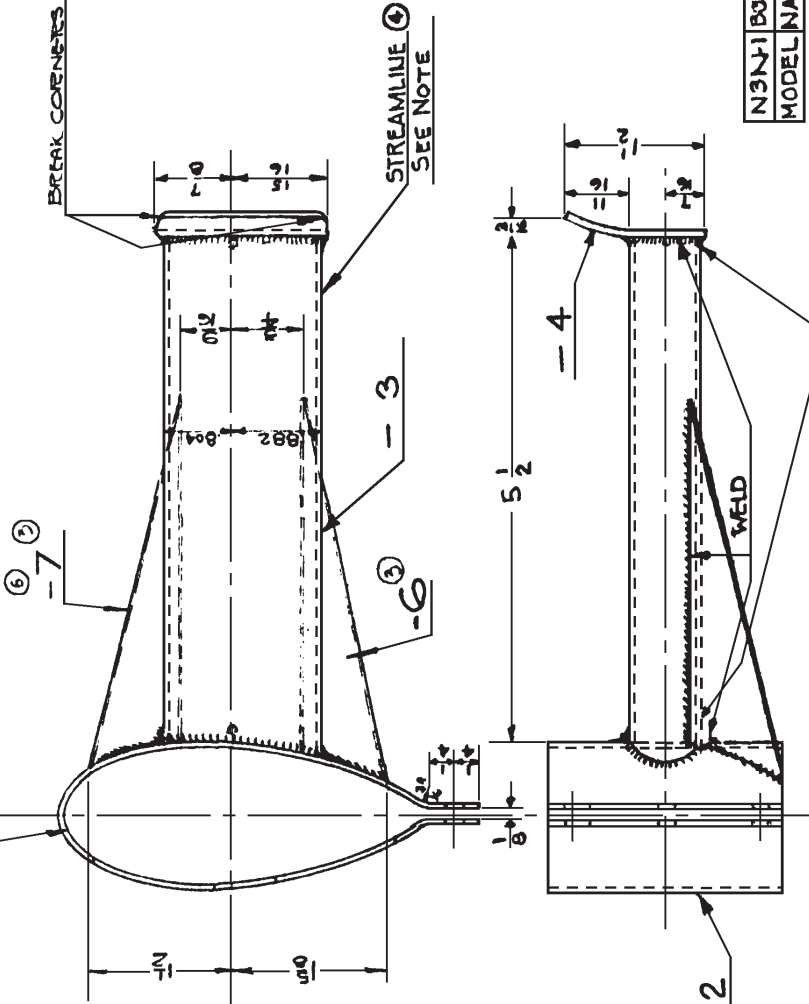
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	FINISH	EST. IN CONTACT WITH
1	-2	AN 3066-6	NUT, LOCK	ST'D				
1	-2	1149-6	COUPLING - 90°					(USED ON N3N - 3 AIRPLANES SUB-SEQUENT TO *2007)
2	-2	AN 3064-4	CONNECTOR					
2	-2	AN 3066-6	NUT, LOCK					
5	-2	AN 345-D10	LOCK WASHER					
5	-2	AN 345-D10	WASHER					
5	-2	AN 345-D10	NUT					
3	-2	AN 510-B10-14	1/2 M. SCREW					
2	-2	AN 510-B10-14	1/2 M. SCREW					
1	-5	AN 345-D10	WASHER					
2	-5	AN 345-D10	NUT					
2	-5	AN 345-D10	WASHER					
1	-5	AN 345-D10	SCREW					
1	-2	AN 345-D10	BOX	ST'D				
6	-2	AN 345-D10						(USED ON ALL N3N-1 AIRPLANES AND N3N-3 AIRPLANES *1759 TO *1908 & *1908 TO *2007 INCL)
1	-2	AN 345-D10						
1	-2	AN 345-D10						
1	-5	AN 345-D10						
1	-1	AN 345-D10						

SCALE
 FULL SIZE

46658 ?

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

SHAPE TO FIT 2 3/4" OD. STREAMLINED TUBE WITH 1/32" CLEARANCE ALL AROUND FOR FABRIC INSULATION.



Holes on this side only locate approx. as shown.

BREAK CORNERS

DRILL 1/16" (1936) 3 HOLES

N3N1 BJR. CHG. 6-ITEMS
MODEL NAVY CHG. INCORP.

DRILL OIL DRAIN HOLES
SEE NOTE #2

-1 STEP ASSY - R.H. SHOWN
-5 STEP ASSY - L.H. OPPOSITE

2- FINISH OUTSIDE OF -1 & -5 WITH PFI-14 & PFI-86, FINISH INSIDE IN ACCORDANCE WITH FC-8.
NOTE: 1-5 SEE DWG. 37616 FOR DEVELOPMENT OF STREAMLINED SECTIONS

NO.	REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
1	1	-5	-7	GUSSET	0.49	STEEL	1/4	1/4			
1	1	-5	-6	GUSSET	0.49	STEEL	1/4	1/4			
1	1	-5	-5	STEP ASSY (L.H.)							
1	1	-5	-4	PLATE	0.49	STEEL	1/4	1/4			
1	1	-5	-3	TUBE	1.40	STEEL	1/4	1/4			
1	1	-5	-2	CLAMP	0.49	STEEL	1/4	1/4			
2	2	-5	-1	STEP ASSY (R.H.)							
1	1	-5			0.87	STEEL	1/4	1/4			

DESIGNED FOR	DRAWN	CHECKED	DELETED	DATE
ALTERNATIONS				
SUPERSEDED BY				
SCALE				
REF. DRAWING NO.				
46664				
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA				

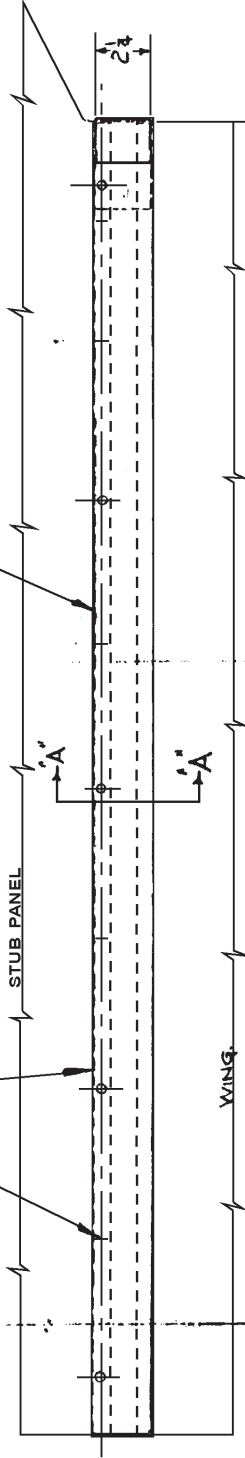
NO.	REV.	DATE	DESCRIPTION
1	1	10/24/46	ISSUED FOR PRODUCTION
2	1	11/21/46	REVISION
3	1	12/21/46	REVISION

STEP-FRONT STRUT - MAIN FLOAT ASSY & DETAILS

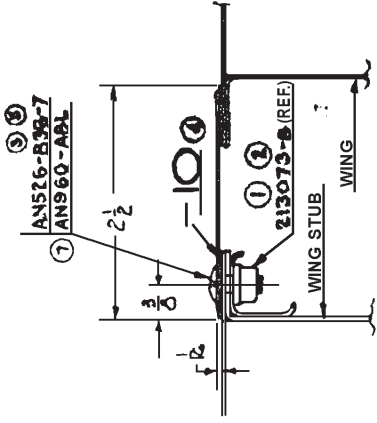
④ -8 ASSEM. L.H.
 -9 ASSEM. R.H.

④ RIVET - 213943 D2
 LOCATE BETWEEN SCREWS.

-3 STRIP L.H. SHOWN
 -4 STRIP R.H. OPPOSITE



-5 STRIP - END L.H. SHOWN
 -6 STRIP - END R.H. OPPOSITE

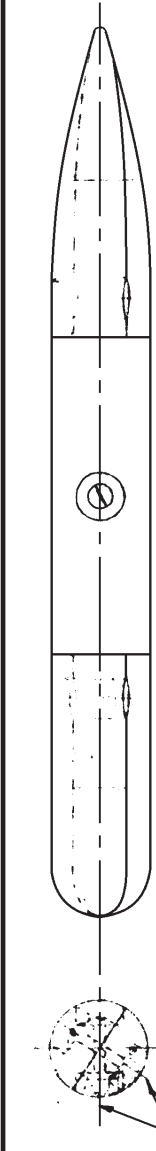


NO.	REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	FINISH	EST. WT. ACT. WT.
⑦	1		AN526-B38-7	WASHER					
⑧	1		AN960-ABL	SCREW					
⑨	1		213073-B	ELASTIC					
⑩	1		213073-B	ELASTIC					
⑪	1		213073-B	ELASTIC					
⑫	1		213073-B	ELASTIC					
⑬	1		213073-B	ELASTIC					
⑭	1		213073-B	ELASTIC					
⑮	1		213073-B	ELASTIC					
⑯	1		213073-B	ELASTIC					
⑰	1		213073-B	ELASTIC					
⑱	1		213073-B	ELASTIC					
⑲	1		213073-B	ELASTIC					
⑳	1		213073-B	ELASTIC					
㉑	1		213073-B	ELASTIC					
㉒	1		213073-B	ELASTIC					
㉓	1		213073-B	ELASTIC					
㉔	1		213073-B	ELASTIC					
㉕	1		213073-B	ELASTIC					
㉖	1		213073-B	ELASTIC					
㉗	1		213073-B	ELASTIC					
㉘	1		213073-B	ELASTIC					
㉙	1		213073-B	ELASTIC					
㉚	1		213073-B	ELASTIC					
㉛	1		213073-B	ELASTIC					
㉜	1		213073-B	ELASTIC					
㉝	1		213073-B	ELASTIC					
㉞	1		213073-B	ELASTIC					
㉟	1		213073-B	ELASTIC					
㊱	1		213073-B	ELASTIC					
㊲	1		213073-B	ELASTIC					
㊳	1		213073-B	ELASTIC					
㊴	1		213073-B	ELASTIC					
㊵	1		213073-B	ELASTIC					
㊶	1		213073-B	ELASTIC					
㊷	1		213073-B	ELASTIC					
㊸	1		213073-B	ELASTIC					
㊹	1		213073-B	ELASTIC					
㊺	1		213073-B	ELASTIC					
㊻	1		213073-B	ELASTIC					
㊼	1		213073-B	ELASTIC					
㊽	1		213073-B	ELASTIC					
㊾	1		213073-B	ELASTIC					
㊿	1		213073-B	ELASTIC					

-1 INSTALLATION L.H. SHOWN
 -2 INSTALLATION R.H. OPPOSITE

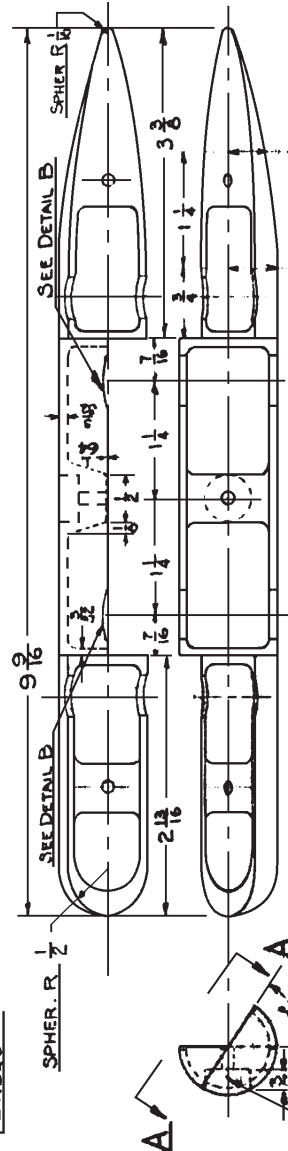
④ NOTE -
 TAPE TO BE THOROUGHLY SATURATED
 WITH CASTOR OIL THEN REMOVE AS MUCH
 EXCESS OIL AS POSSIBLE.

DRAWN		DESIGNED FOR		STOCK		MATERIAL SPEC.		HT. T.		FINISH		EST. WT. ACT. WT.	
CHECKED		N3N-3											
SUPERVISOR		DIMENSIONS ARE IN INCHES. LIMITS:											
STRUCTURE		DECIMALS ± 0.10 ANGLES ± 1° UNLESS OTHERWISE NOTED.											
CHIEF DRAFT.		ALTERNATIONS											
PROJ. ENG.		COVERING STRIP											
ASST. SFT. ENG.		LOWER WING STUB											
APPROVAL		SUPERSEDES											
		SCALE											
		SEE DRAWING NO.											
		46672											
		NAVAL AIRCRAFT FACTORY											
		PHILADELPHIA											



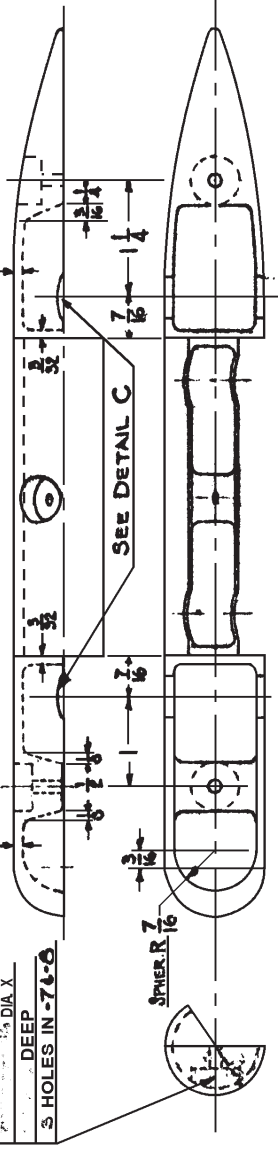
AN 520-6-12
AN 345-6
AN 960-6
AN 933-6
3 REQD

-1 ASSEM. LH SHOWN
-2 ASSEM. RH OPPOSITE



-7 LH. SHOWN
-8 RH. OPPOSITE

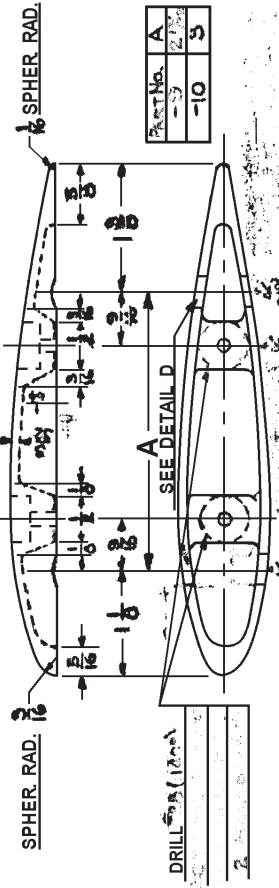
DRILL #28 (140s)
3/8 DIA X
DEEP
3 HOLES IN -7 & -8



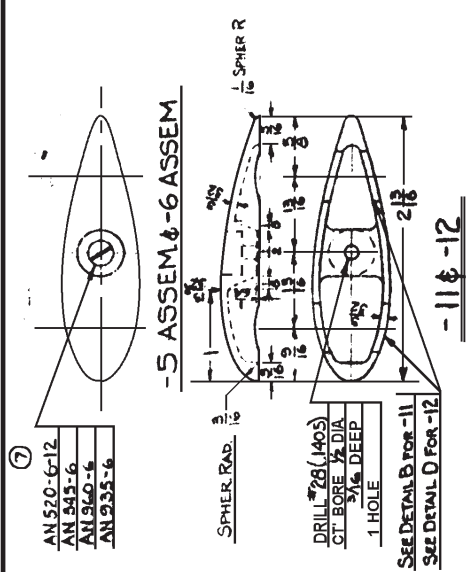
VIEW A-A



-3 ASSEM. & -4 ASSEM.



DRILL #28 (140s)
3/8 DIA X
DEEP
3 HOLES IN -7 & -8



-5 ASSEM. & -6 ASSEM.

SEE DETAIL B FOR -11
SEE DETAIL D FOR -12

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	FINISH	WT. WT. WT.
2	-6	-12	LOCK WASHER					
2	-5	-11	WASHER					
2	-4	-10	NUT					
2	-3	-9	MACH. SCREW					
2	-2	-8	MACH. SCREW					
2	-1	-7	SPACER HALF-LH					
2	-2	-6	SPACER HALF-LH					
2	-3	-5	SPACER HALF-LH					
2	-4	-4	SPACER HALF-LH					
2	-5	-3	SPACER HALF-LH					
2	-6	-2	SPACER HALF-LH					
2	-7	-1	SPACER HALF-LH					

NOTES:
1. ALL FILLETS TO BE 3/8 UNLESS OTHERWISE NOTED.
2. THESE SPACERS ARE USED ON SEA-PLANES ONLY. REFER TO 560711, 47025, & 68141.

AN 520-6-12
AN 345-6
AN 960-6
AN 933-6

SPHER. RAD. 1/16
DRILL #28 (140s)
3/8 DIA X
DEEP
3 HOLES IN -7 & -8

SPHER. RAD. 1/16
DRILL #28 (140s)
3/8 DIA X
DEEP
3 HOLES IN -7 & -8

Part No.	A
	-10
	5

AN 520-6-12
AN 345-6
AN 960-6
AN 933-6

SPACER - INTERPLANE WIRES
ASSEMBLY & DETAILS
SUPERCEDES 46696 OF 4-6-38
SCALE FULL SIZE
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ±
CHECKED
SUPERVISOR
STRUCTURE
CHIEF DRAW.
PROJ. ENG.
ASST. CHIEF ENG.
APPROVAL

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

REEL ENDS

PHOTOGRAPHED

BY
MICROFILE DIVISION
RECORDS DEPT

N A D S
JOHNSVILLE PA

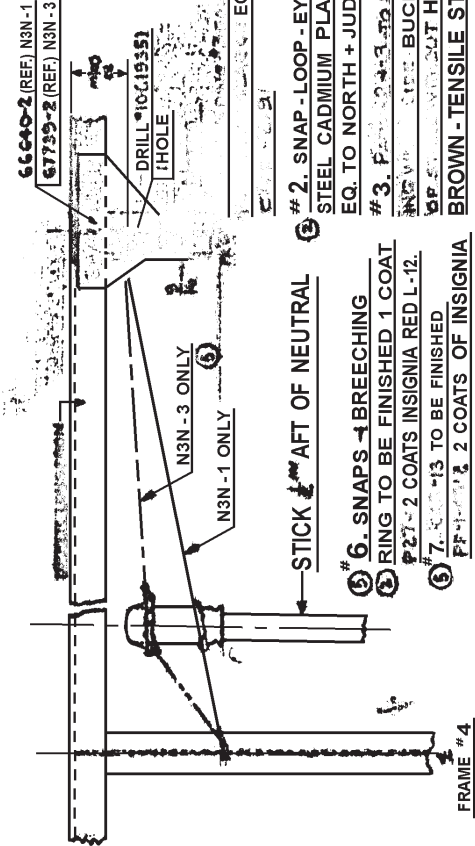
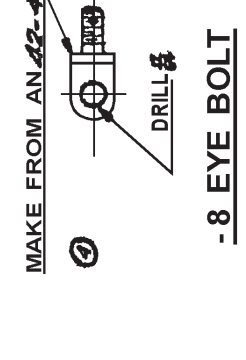
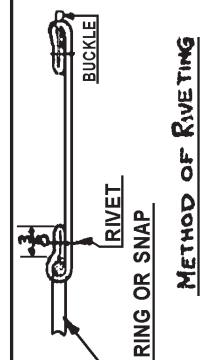
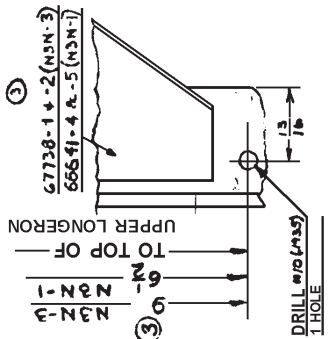
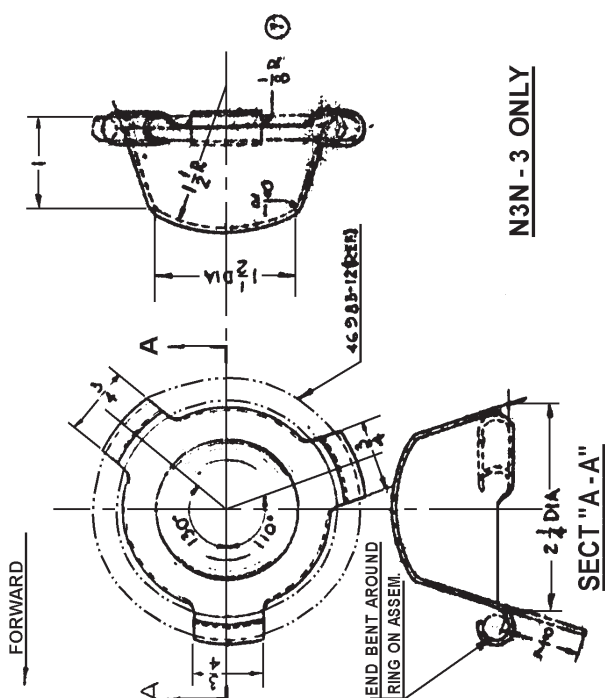
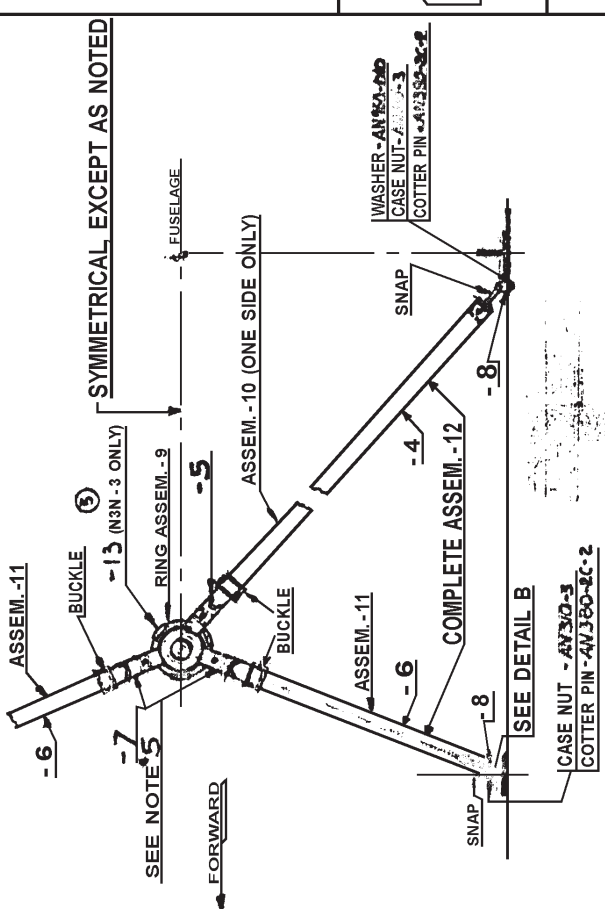
DEC 1947

REEL A

NAVAL AIRCRAFT FACTORY
NAVAL AIR MATERIAL CENTER
U S NAVAL BASE STATION
PHILADELPHIA PENNA
MODEL N3N
TRAINER AIRCRAFT DRAWINGS
AS OF

DECEMBER 1947

22 17 4/19/57



NO.	QTY.	PART NO.	DESCRIPTION	ALLOY	FINISH
1	12	13	CAP (N3N-3)	60-54-5 1/2	COMPLETE
2	1	12	STRAP ASSEM		
3	1	AN330-3	NUT		
4	1	AN330-3	COTTER		
5	1	WASHER			STD.
6	1	13	RIVET (SPLIT)		SEE NOTE #6
7	1	10-11	SNAP		SEE NOTE #7
8	1	11	STRAP ASSEM - FRONT		
9	1	10	STRAP ASSEM - REAR		
10	1	9	BREECHING RING (SEE NOTE #17)		
11	1	8	RING ASSEM.		
12	1	7	EYEBOLT		AN330-3
13	1	6	STRAP 5/8 CUT FROM - 3		SEE NOTE #6
14	1	5	STRAP 5/8 CUT FROM - 2		SEE NOTE #6
15	1	4	STRAP 1 CUT FROM - 2		SEE NOTE #3
16	1	3	STRAP 1 CUT FROM - 2		SEE NOTE #3
17	1	2	STRAP		
18	1	1	BUCKLE		
19	1	1	RING OR SNAP		
20	1	1	DRILL #8		
21	1	1	- 8 EYE BOLT		

- # 1. CAP (N3N-3) EQ. TO NORTH + JUDD
- # 2. SNAP - LOOP - EYE - STD. WT. 8 EYE STEEL CADMIUM PLATED. SIMILAR OR EQ. TO NORTH + JUDD 1/40 IN CAT #9
- # 3. RING - LOOP - EYE - STD. WT. 8 EYE STEEL CADMIUM PLATED. SIMILAR OR EQ. TO NORTH + JUDD 1/40 IN CAT #9
- # 4. RIVET TO BE SIMILAR TO THEO. C. ULMER CO. CAT B (PAGE 38) PART NO. 14 L X (BRASS) 3/8 LONG. SPLIT FULL LENGTH.
- # 5. PARTS 5-17 ARE 5/8 LONG (CUT FROM BUCKLE END OF - 2)
- # 6. SNAPS - 1 BREECHING RING TO BE FINISHED 1 COAT
- # 7. SNAPS - 13 TO BE FINISHED
- # 8. SPLIT STEEL RIVET. STYLE 200 PLATED (PENN. RIVET CO.) 9/64 SHANK, 5/16 DIA OF HEAD OR EQUIVALENT.

**INSTALL - 1
FRONT COCKPIT ONLY**

DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS: DECIMALS ± 0.10, ANGLES ± 1/2° UNLESS OTHERWISE NOTED.

APPROVAL

PROJ. ENGR.

CHIEF ASMT.

STRUCTURE

SUPERVISOR

CHECKED

DRAWN

SCALE

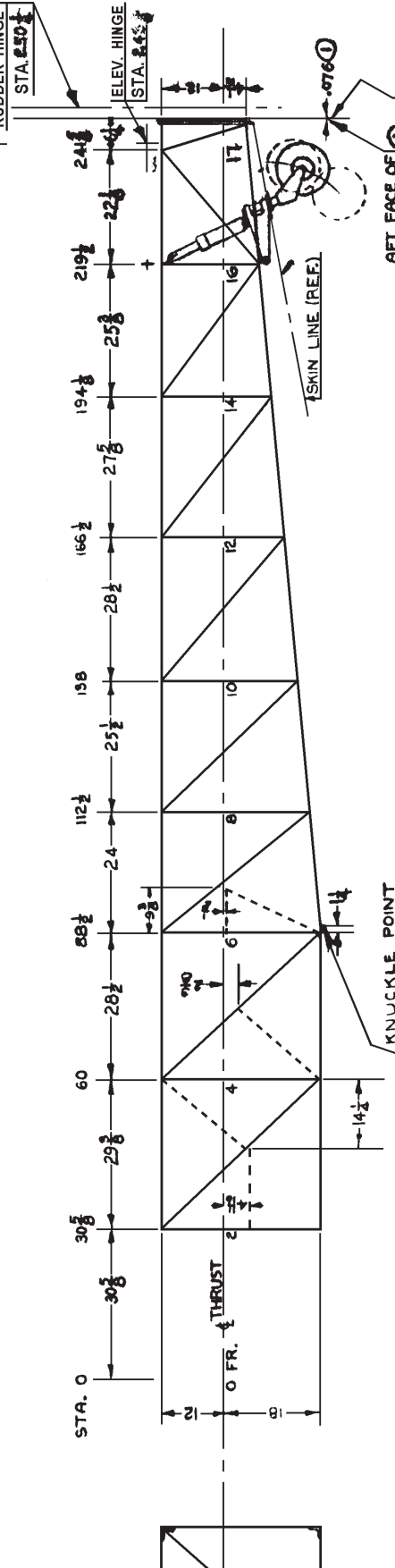
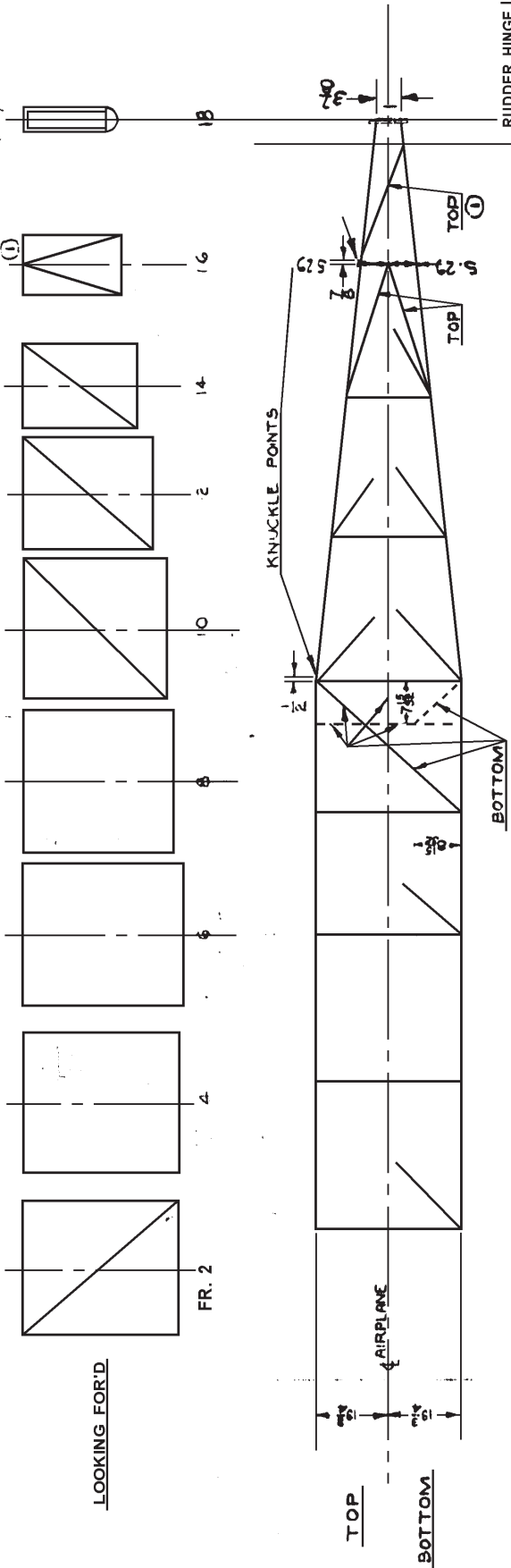
SUPPLEMENTED BY

REF. DRAWING NO.

46985 ?

NAVAL AIRCRAFT FACTORY PHILADELPHIA

LOOKING FORD

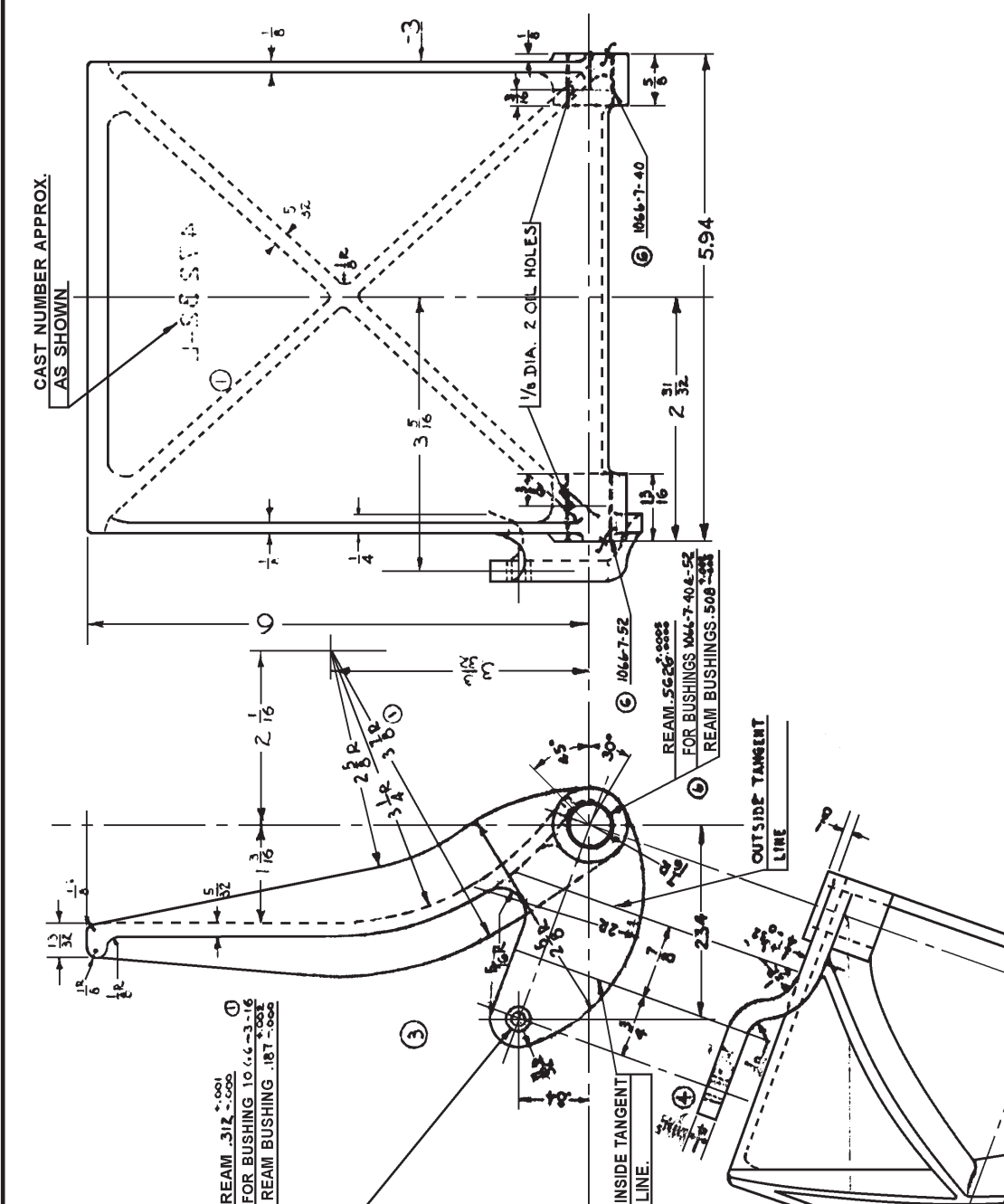
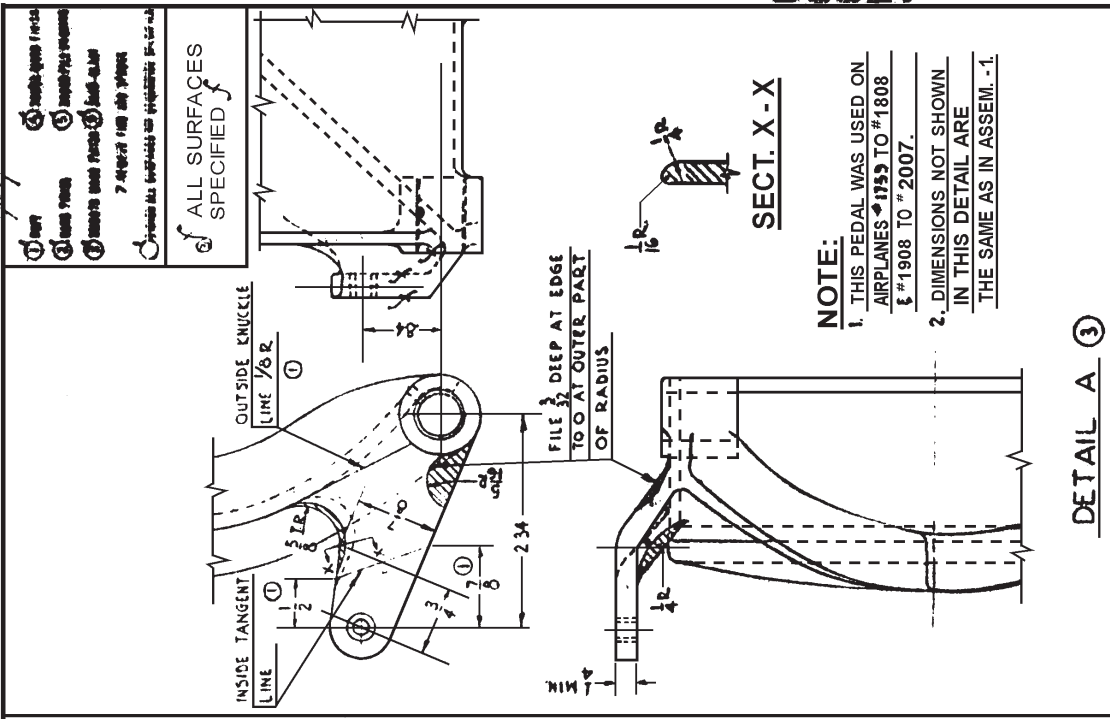


REFERENCE DRAWINGS:
 68091 STRUCTURAL DIAGRAM-WING GROUP
 68092 STRUCTURAL DIAGRAM-TAIL GROUP
 STRUCTURAL DIAGRAM-
 LANDING GEAR-WHEEL TYPE
 LANDING GEAR-FLOAT TYPE

NOTES: THE DIMENSIONS $4\frac{1}{2}$ AND $3\frac{1}{2}$ FIXING THE LONGERONS AT TAIL ARE IMAGINARY FIGURES BASED ON THE CONTINUATION OF THE LONGERONS TO STA. 18
 ALL EXTRUDED ANGLES INDICATED BY HEEL STABILIZER SPAR FITTINGS CENTERED ON FRAMES 16 & 17
 ALL DIMENSIONS GIVEN ON THIS DRAWING ARE FOR STRUCTURAL ANALYSIS ONLY.

NO. REC.	ASSEM.	NAME	STOCK	MATERIAL SPEC.	HT. T. / FINISH	EST. WT. / ACT. WT.
N3N-3						
DESIGNED FOR: DIMENSIONS ARE IN INCHES, LIMITS ±						
DRAWN: [Signature]						
CHECKED: [Signature]						
SUPERVISOR: [Signature]						
STRUCTURE: [Signature]						
OTHER DRAFT: [Signature]						
PART. CRT. ENG. [Signature]						
PART. CRT. ENG. [Signature]						
SUPERSEDES BY						
SCALE: 1" = 10'						
STRUCTURAL DIAGRAM						
BODY GROUP						
REF. DRAWING NO. 47220						
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA						

LEGEND:
 PRIMARY STRUCTURE: _____
 SECONDARY STRUCTURE: - - - - -



47232

NOTE:
 1. THIS PEDAL WAS USED ON AIRPLANES #1953 TO #1808 & #1908 TO #2007.
 2. DIMENSIONS NOT SHOWN IN THIS DETAIL ARE THE SAME AS IN ASSEM. -1.

DETAIL A

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT. ACT. WT.
1		1066-7-52	BUSHING						
1		1066-7-40	BUSHING						
1		1066-7-40	BUSHING						
1		47232-1	PEDAL	R.H. CASTING	AL-ALLOY	SA 8	29000		
1		47232-2	PED. ASSEM. R.H.	L.H. CASTING	AL-ALLOY	SA 8	29000		
1		47232-1	PEDAL						
1		47232-2	PED. ASSEM. L.H.						

DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/16 DECIMALS ± .010, ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.

FUNCTION	APPROVAL
DRAWN	
CHECKED	
SUPERVISOR	
STRUCTURE	
CHIEF DRAFT.	
PROF. ENG.	
ACT. SFT. ENG.	
APPROVAL	

ALTERNATIONS

NO.	DATE	DESCRIPTION
1	5-7-40	
2	10-28-40	
3	11-5-41	
4	1066-7-52 ADDED	
5	1066-7-52 ADDED	
6	1066-7-52 ADDED	
7	1066-7-52 ADDED	
8	1066-7-52 ADDED	
9	1066-7-52 ADDED	
10	1066-7-52 ADDED	
11	1066-7-52 ADDED	
12	1066-7-52 ADDED	
13	1066-7-52 ADDED	
14	1066-7-52 ADDED	
15	1066-7-52 ADDED	
16	1066-7-52 ADDED	
17	1066-7-52 ADDED	
18	1066-7-52 ADDED	
19	1066-7-52 ADDED	
20	1066-7-52 ADDED	

5 PARA. Q
 MODEL B.R. AERO. CHG. INC.

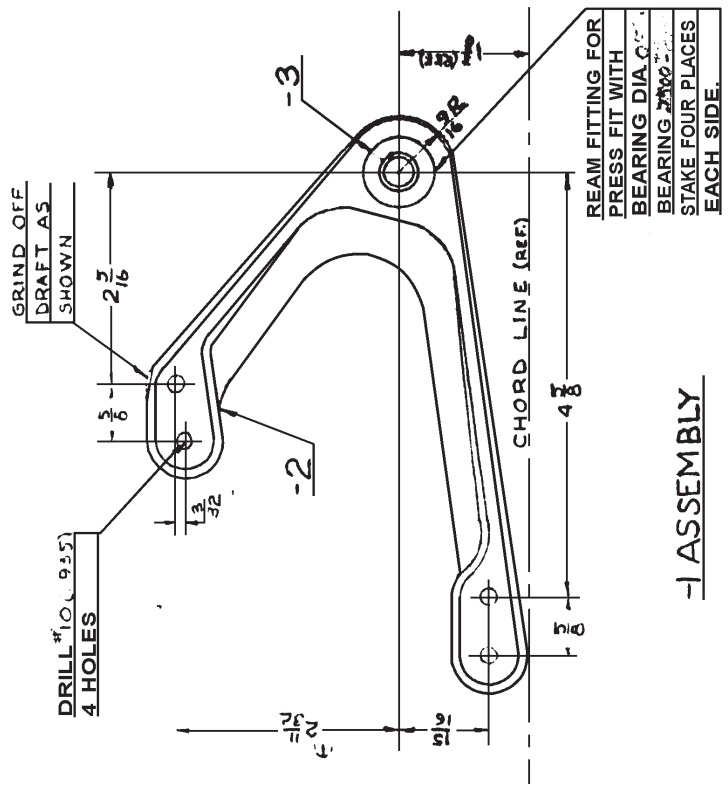
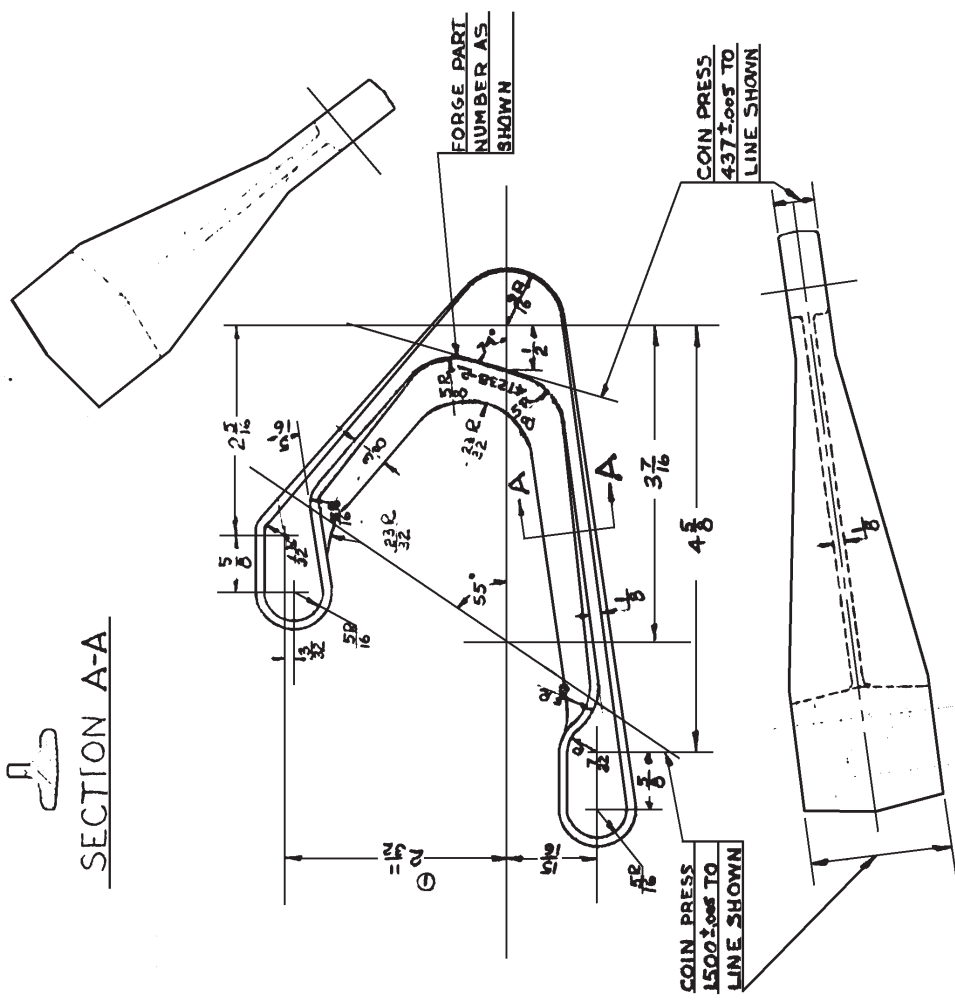
1 PEDAL ASSEM. L.H. SHOWN
 2 PEDAL ASSEM. R.H. OPPOSITE

SCALE: FULL SIZE

47232

NAVAL AIRCRAFT FACTORY PHILADELPHIA

SECTION A-A



-1 ASSEMBLY

NO.	REV.	ASSEMBLY	PART NO.	DESIGNED FOR	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	ST. T.	HT. T.
1	1	47238-1	47238-3	BEARING	ROSEN	18-633	AFANIR KFA-A OR EQUIVALENT					
1	1	47238-2	47238-2	FORGING	FULLER	18-437	ALUM. 2024 SR-3353000					
1	1	47238-2	47238-2	FITTING	ROSEN	18-633	MAKE FROM -2F					
2	1	47238-1	47238-1	ASSEMBLY	FULLER	18-437						

DESIGNED FOR		DIMENSIONS ARE IN INCHES, LIMITS ± 1/4 DECIMALS, UNLESS OTHERWISE NOTED.	
NO.	REV.	ASSEMBLY	PART NO.
N3N	-3	47238	47238-1

ALTERNATIONS		SUPERSEDED BY	
CHECKED	DATE	NO.	REV.
FULLER	10-11-63		
ROSEN	10-11-63		
STRUCTURE	10-11-63		
CHIEF DRAFT	10-11-63		
PROD. ENG.	10-11-63		
MECH. ENGR.	10-11-63		
APPROVAL			

SCALE		SUPERSEDED BY	
NO.	REV.	NO.	REV.
47238	1		

FULL SCALE		SUPERSEDED BY	
NO.	REV.	NO.	REV.
47238	1		

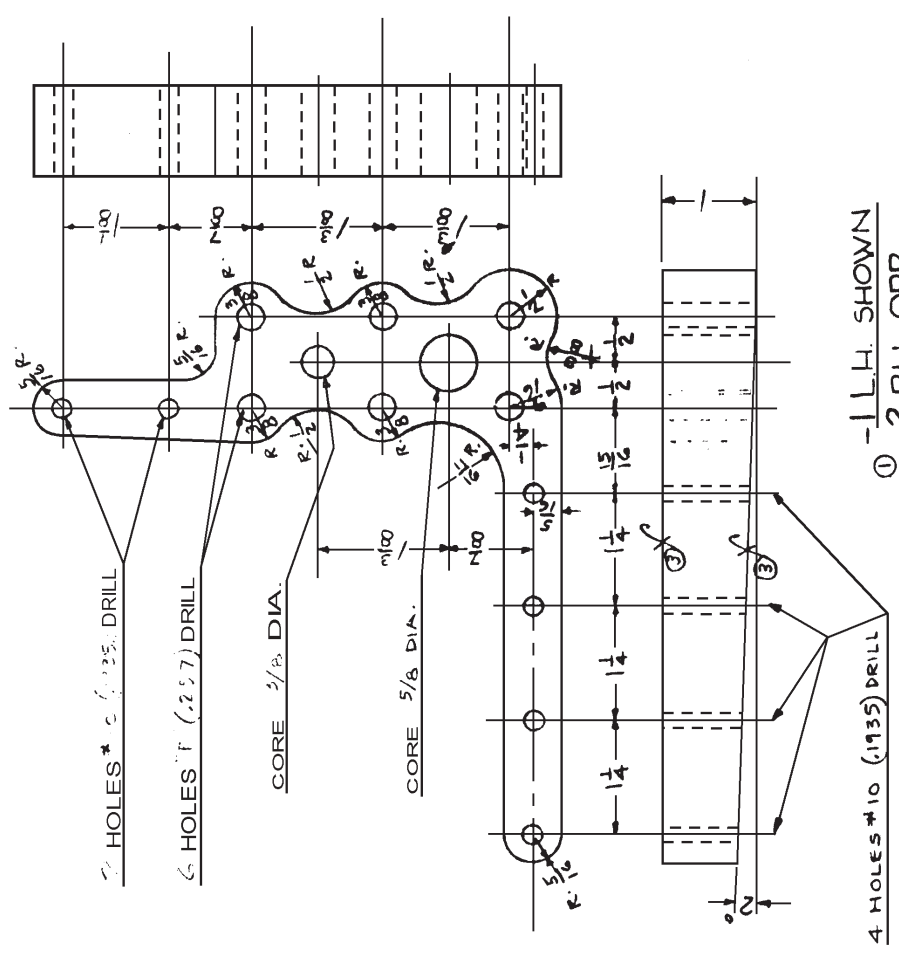
FITTING HINGE		SUPERSEDED BY	
NO.	REV.	NO.	REV.
47238	1		

AILERON HINGE		SUPERSEDED BY	
NO.	REV.	NO.	REV.
47238	1		

NAVAL AIRCRAFT FACTORY PHILADELPHIA	
47238	1

NOTES
 4. BREAK ALL SHARP CORNERS WITH 1/16 RADIUS.
 3. TOLERANCES ON FORGING ONLY TO BE +.004, -.002, ±.1°.
 2. FILLET RADI TO BE 3/16 UNLESS OTHERWISE NOTED.
 1. DRAFT ANGLES TO BE 7° UNLESS OTHERWISE NOTED

47247

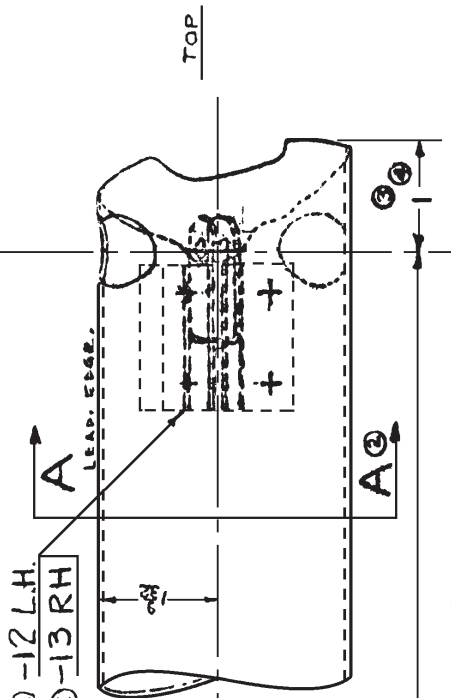


1 LLH. SHOWN
2 RH. OPP.

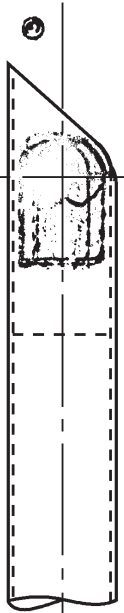
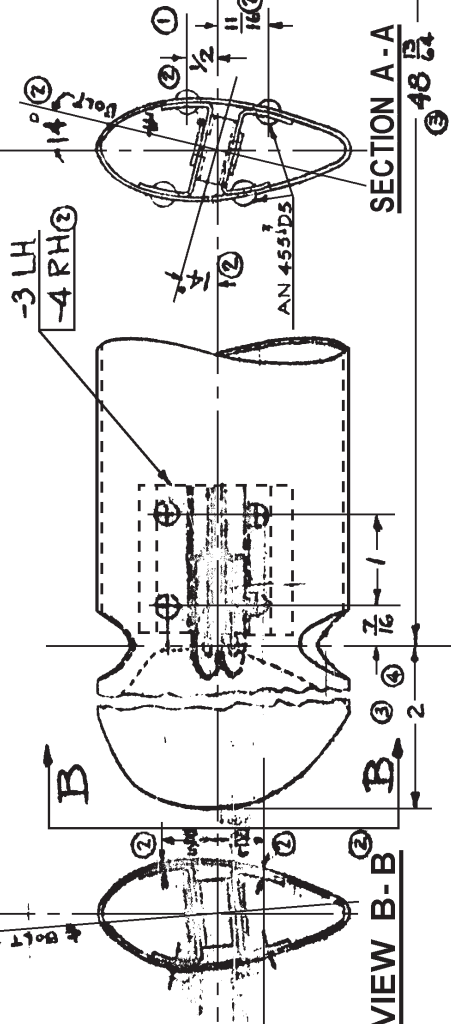
FINISH PF-1-40



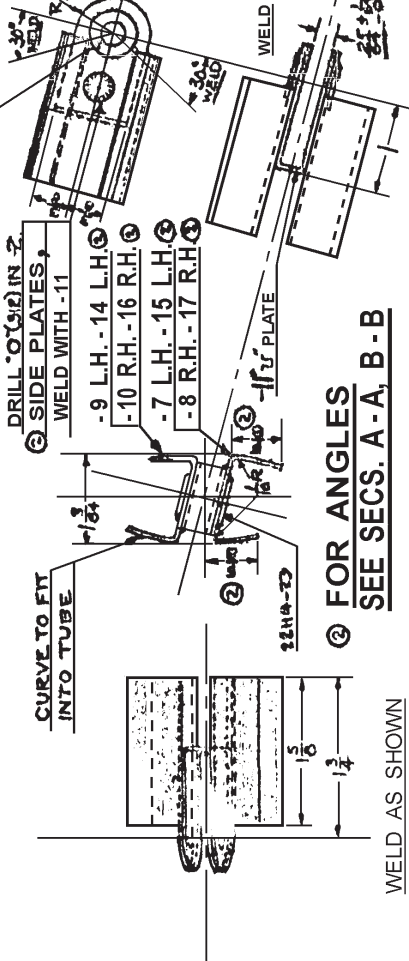
NO. REQ.		ASSEMBL.	PART NO.	NAME	STOCK	NOTE	NOTE
1	67732-	147247-2	FITTING, RH		-2C		.90
1	67732-	147247-1	FITTING, LH		-1C		.10
1	-2	47247-2	FITTING, RH	CASTING ALUMINUM			
1	-1	47247-1	FITTING, LH	CASTING ALUMINUM			
							FINISH (EST. WT. NET. WT.)
							37.040
DIMENSIONS ARE IN INCHES, LIMITS ±							
DECIMALS ±.010, ANGLES ±.2°, UNLESS OTHERWISE NOTED.							
DESIGNED FOR: FITTING-FUSELAGE-STUB CONNECTION, CASTING, DETAIL							
SUPERSEDED BY: 47247							
SCALE: NAVY YARD PHILADELPHIA							
REF. DRAWING NO. 47247							
SUPERSEDES: 47247							
APPROVAL:							
CHIEF DRMT. HARRIS							
STRUCTURE DEWITT							
SUPERVISOR BELL							
CHECKED BY BROWN							
TRAISED BY BROWN							
ALTERNATIONS:							
1 92839 107							
P.M. REVISED							
PART - 2C ADDED							
92839 107							



SECTION A-A
 48 1/2
 -1 STRUT ASSEM. L.H. SHOWN
 -2 STRUT ASSEM. R.H. OPPOSITE



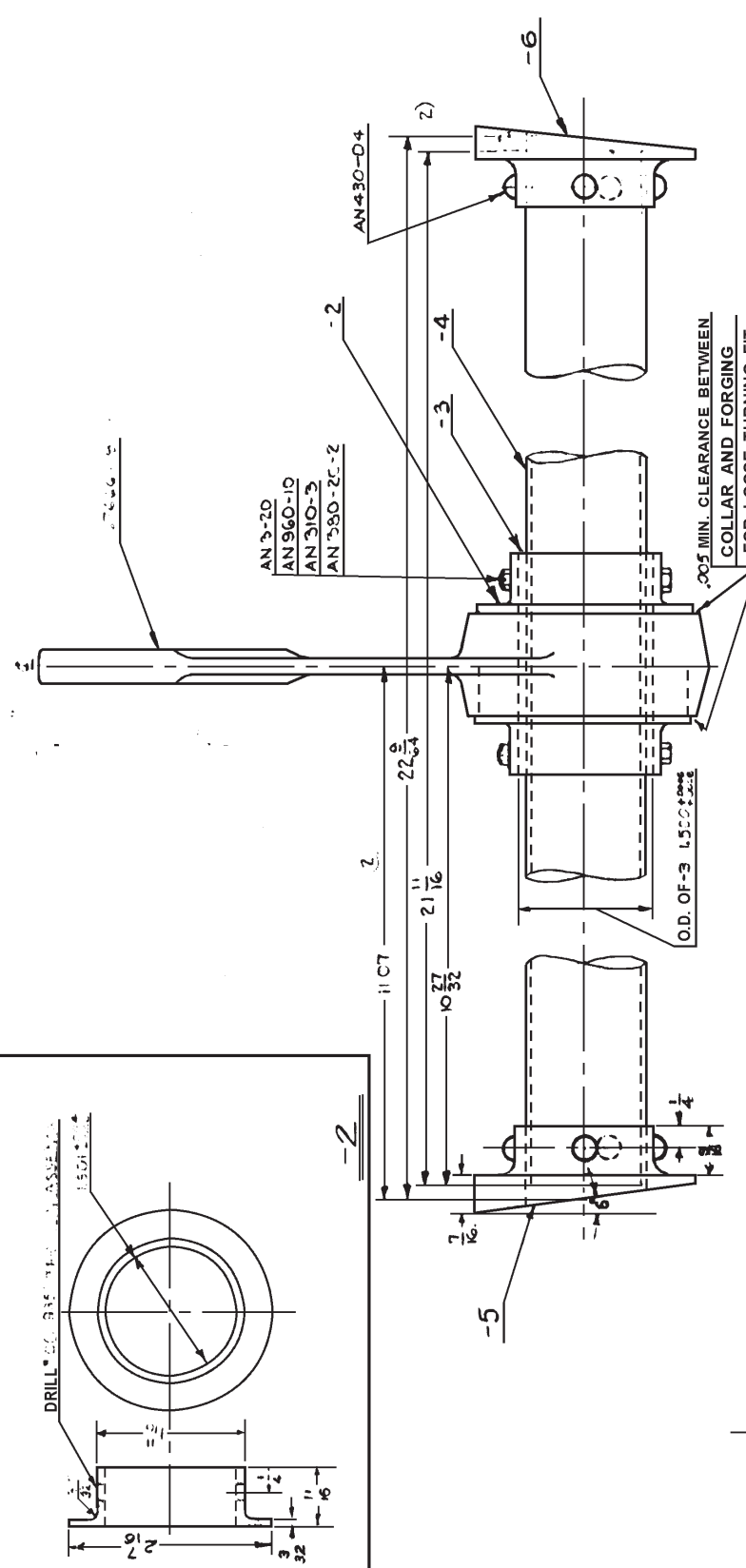
-5 TUBE L.H. SHOWN
 -6 TUBE R.H. OPPOSITE
 REAM .250 ±.005



② -12 LH, -13 RH, FITTING ASSEM. UPPER
 ③ -3 LH, -4 RH, FITTING ASSEM. LOWER
 ④ TYPICAL . L.H. SHOWN.

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	FINISH	EST. MT. FAC. INT.
DIMENSIONS ARE IN INCHES. LIMITS ±								
DECIMALS - .010, ANGLES - 1/4°, UNLESS OTHERWISE NOTED.								
DESIGNED FOR				STAB				
N3N-3				STRUT - STABILIZER				
ALTERNATIONS				ASSEMBLY & DETAILS				
SUPERSEDING								
SUPERSEDED BY								
47253								
REF. DRAWING NO. 47253								
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA								

①	②	③	④	⑤				
1	47253-13	47253-17	RH	AN 4551DS				
1	-13	-16	RH	035x2 1/2 x 2 1/2				
1	-12	-15	LH	035x2 1/2 x 2 1/2				
1	-14		PLATE	LH				
1	-12		PLATE	LH				
1	-1		FITTING ASSY.	RH - UPPER				
1	-15		FITTING ASSY.	LH - UPPER				
1	-15		PLATE	UPPER				
1	-10		RH	035x2 1/2 x 2 1/2				
1	-9		LH	035x2 1/2 x 2 1/2				
1	-4		PLATE	RH				
1	-3		PLATE	LH				
1	-2		TUBE	LH				
1	-2		FITTING ASSY.	RH - LOWER				
1	-3		FITTING ASSY.	LH - LOWER				
MATERIAL SPEC. HT. T. FINISH EST. MT. FAC. INT.								
DECIMALS - .010, ANGLES - 1/4°, UNLESS OTHERWISE NOTED.								



-1- BELL CRANK ASSEM.

NO.	REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
2	47258-1	AN3802C-2	COTTER	ST70						
2	AN310-3	NUT								
2	AN360-10	WASHER								
2	AN3-20	BOLT								
8	47258-1	AN430-D4	RIVET	STD						
1	47258-1	57666-19	BELL CRANK							
1	-1	47258-6	FITTING RH	2 1/2 DIA X 1	ALLOY 46A9					
1	-1	47258-7	FITTING LH	2 1/2 DIA X 1	ALLOY 46A9					
1	-1	47258-8	SHAFT	1 1/2 DIA X 2 1/2	ALLOY 46A9					
1	-1	47258-9	TUBE	1 1/2 DIA X 0.050 X 1/8	STEEL 44716 PH510A					
2	47258-1	47258-1	COLLAR	2 1/2 DIA X 1/8	ALLOY 46A9					
1	67646-1	47258-1	BELL CRANK ASSY							

- 5 FITTING R.H. SHOWN
- 6 FITTING R.H. OPPOSITE

DESIGNED FOR: **NAVY**

CHECKED: **U.S. CO.**

SUPERVISOR: **F. CRAMER**

STRUCTURE: **HARRIS**

PROJ. ENG. **HARRIS**

APPROVAL: **HARRIS**

SCALE: **1/2" = 1"**

FULL SIZE

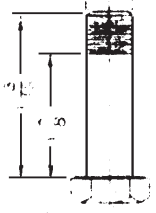
REF. DRAWING NO. **47258**

SUPERSEDES

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

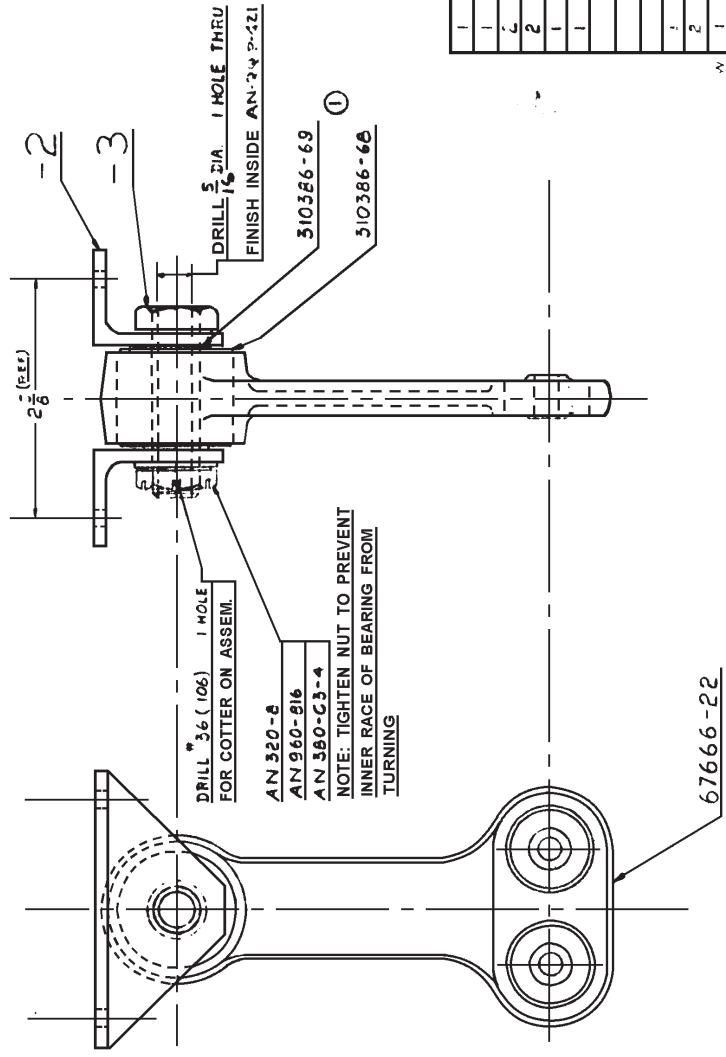
MAKE FROM AN6-21A
COTTER HOLE DRILLED ON ASSEMBLY

2-3



DRILL TO .0035 ± HOLES
AT ASSEM.

- 2



ASSEM.-1

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT.	NET WT.
1	47259-1	AN380-C3-4	COTTER	STANDARD						
1		AN960-816	WASHER	STANDARD						
2		310386-69	WASHER							
2		310386-68	WASHER							
1		AN320-6	NUT	STANDARD						
1	47259-1	67666-22	IDLER							.4
1	47259-1	47259-3	BOLT		MAKE FROM AN6-21A (SEE DETAIL)			ROTED		.1
2	47259-1	47259-2	ANGLE		MAKE FROM 46 547-713			PR-771		.2
1	67646-1	47259-1	ASSEM.-IDLER							.3

DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ±		7/32 DECIMALS, .010 ANGLES, .005, UNLESS OTHERWISE NOTED.	
DESIGNED BY	W. H. S. JONES	CHECKED	P. D. CAUFMAN	DATE	9-6-39
APPROVED	K. P. WILSON	SUPERVISOR	K. P. WILSON	SCALE	1" = 1"
STRUCTURE	W. H. S. JONES	CHIEF DRAFT	W. H. S. JONES	FULL SIZE	
PROJ. ENG.	W. H. S. JONES	APPROVAL			
NET. CRT. ENG.					

ALTERNATIONS	
(1)	11-9-39
(2)	12-4-40

DETAIL OF 47259-3 ADDED	
NO.	DATE
1	11-9-39
2	12-4-40

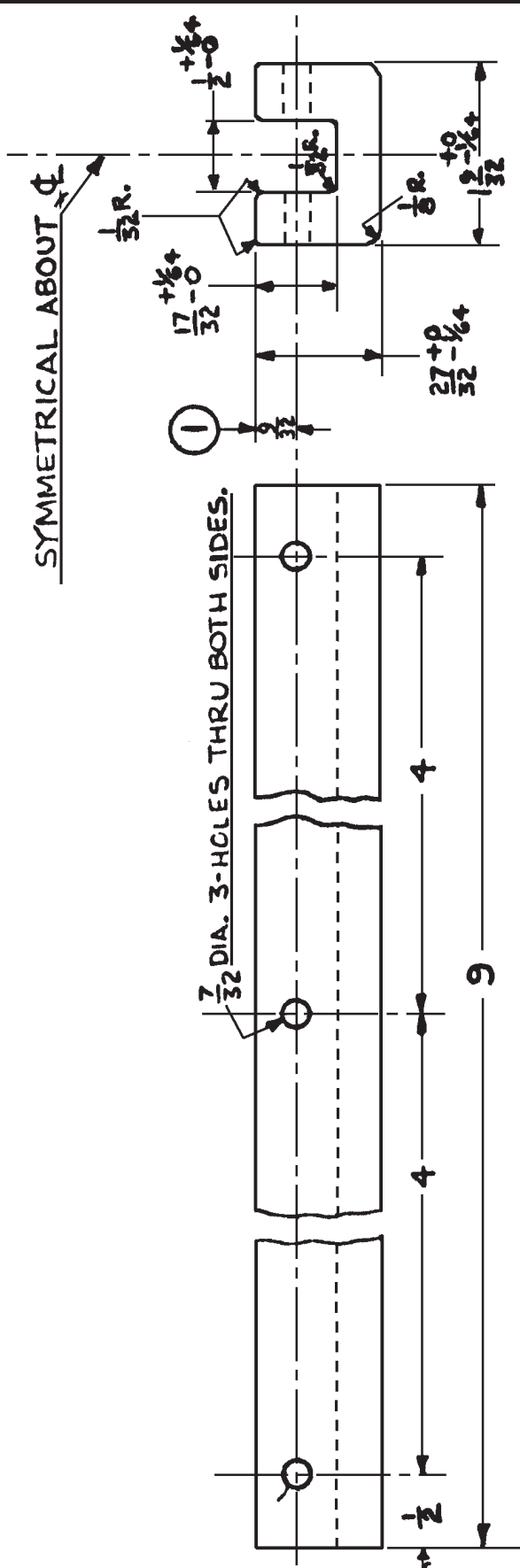
SUPERSEDES	
FRAME # 10	

REF. DRAWING NO.	
47259	

MAYY YARD	
NAVAL AIRCRAFT FACTORY	PHILADELPHIA

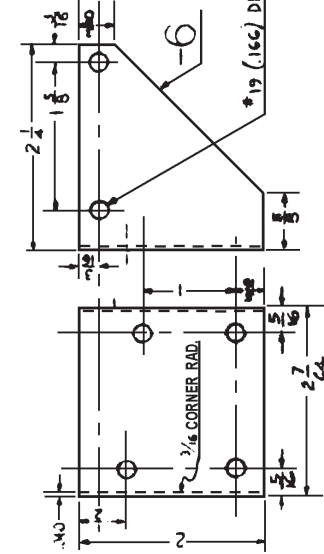
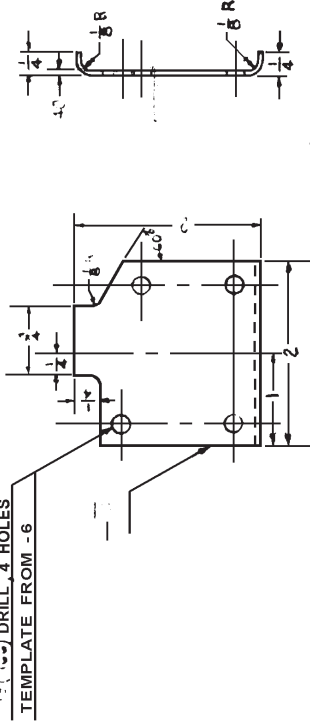
47265-8

L.D. 10/27/39

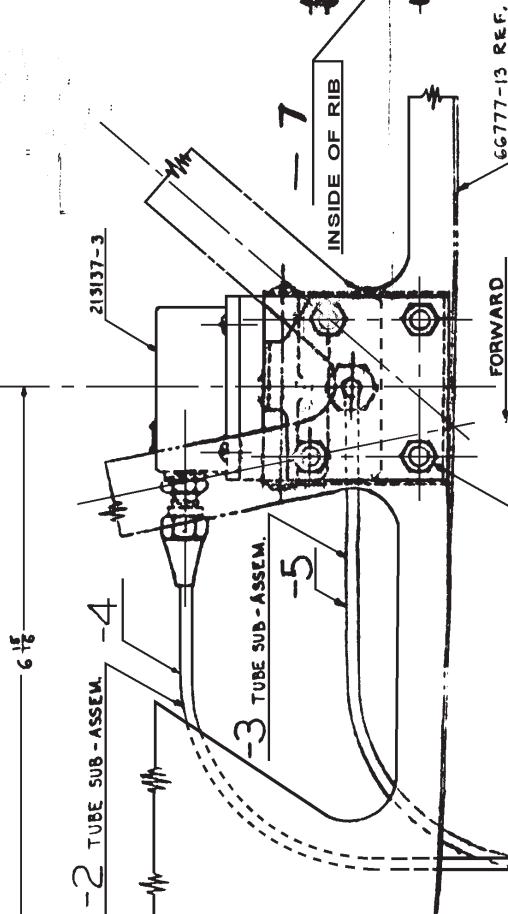


②	1	47265-1	47265-B	SHOCK PAD	27 x 11 x 9	RUBBER	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
	N3 N-3		DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ±		DECIMALS ±.010. ANGLES ± 1/2° UNLESS OTHERWISE NOTED.						
ALTERNATIONS ① 11-15-39 DIMENSION WAS 1/2" + 0 ② 12-4-39 WAS R.A. SPEC. B3R4													
DRAWN TRACED CHECKED SUPERVISOR STRUCTURE CHIEF DRAFT. PROJ. ENG. ASST. CH'F. ENG. APPROVAL													
FAD - WING TIP FLOAT RUBBER SHOCK													
SUPERSEDED BY _____ SCALE _____ FULL SIZE REF. DRAWING NO. 47265-8 NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA													

#19 (.166) DRILL, 4 HOLES
TEMPLATE FROM - 6



C FRONT BEAM



213690-2D.
ATTACH TO 213691-2D
ON STRUT 57363-21.

66777-13 REF.

INSIDE OF RIB

AN 515-D8-8, AFTER INSTALLATION
BURR THREADS ON ENDS OF SCREWS.

INBOARD

AN 515-D8-8

-2 TUBE SUB-ASSEM.

-3 TUBE SUB-ASSEM.

-4

-5

-6

-1 CHECK VALVE INSTALLATION

- NOTE 1: DO NOT REPAIR CHECK VALVE.
- NOTE 2: SALVAGE 2 SLEEVES 213690-2D FROM 213137-9.

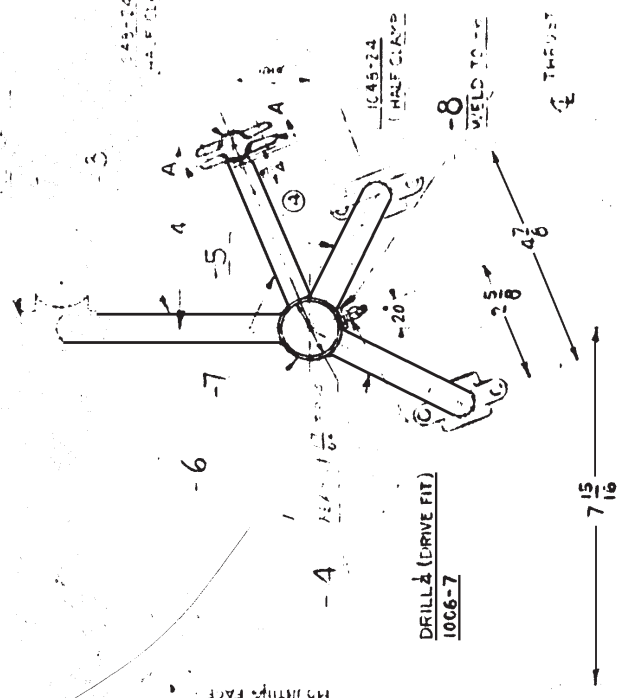
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
4	47292-1	AN5408	NUT	STD.					
8	47292-1	AN515-8	SCREW	STD.					
1	47292-2	213690-2D	SLEEVE	STD.					
1	47292-3	213137-3	CHECK VALVE	STD.					
1	47292-4	213137-3	PLATE	STD.					
1	47292-5	213137-3	BRACKET	STD.					
1	47292-6	213137-3	TUBE	STD.					
1	47292-7	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-8	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-9	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-10	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-11	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-12	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-13	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-14	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-15	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-16	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-17	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-18	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-19	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-20	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-21	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-22	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-23	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-24	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-25	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-26	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-27	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-28	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-29	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-30	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-31	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-32	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-33	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-34	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-35	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-36	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-37	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-38	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-39	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-40	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-41	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-42	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-43	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-44	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-45	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-46	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-47	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-48	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-49	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-50	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-51	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-52	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-53	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-54	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-55	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-56	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-57	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-58	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-59	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-60	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-61	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-62	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-63	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-64	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-65	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-66	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-67	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-68	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-69	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-70	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-71	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-72	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-73	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-74	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-75	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-76	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-77	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-78	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-79	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-80	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-81	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-82	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-83	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-84	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-85	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-86	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-87	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-88	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-89	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-90	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-91	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-92	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-93	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-94	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-95	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-96	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-97	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-98	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-99	213137-3	TUBE SUB-ASSEM.	STD.					
1	47292-100	213137-3	TUBE SUB-ASSEM.	STD.					

DIMENSIONS ARE IN INCHES, LIMITS ±.010 ANGLES ± 1/2° UNLESS OTHERWISE NOTED.

VALVE - CHECK - HYDROSTATIC INSTALLATION & DETAIL	
SCALE	FULL SIZE
SUPERSEDED BY	
REF. DRAWING NO.	47292
NAVY YARD	NAVAL AIRCRAFT FACTORY PHILADELPHIA

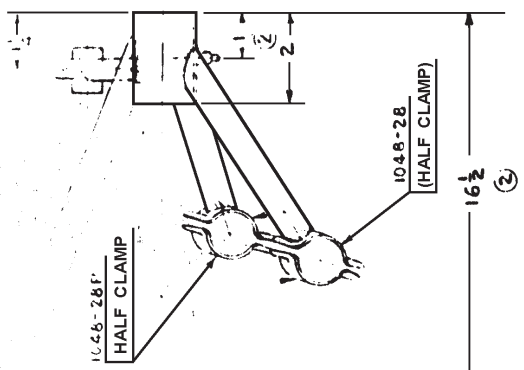
TUBE
SEALING
RIVETS

SECTION A - A
SCALE FULL SIZE



NOTE:
1. ASSY. 47296-1 SUPE. SPEC. 68122-48-23
WHEN STARTER CRANK IS INSTALLED ON
LEFT SIDE AS AUTHORIZED BY BU. LEITR
AER-E-EP VN 3N / F24 V. 313/PH OF H-T-33

③ N3N-3
MODEL BUB AERO CRANK INCOM



NO. REQ.	ASSEMBLY	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT. ACT. WT.
8	47296-1	M1300-2	COTTER PIN	STD					
8	47296-1	M1300-4	NUT						
8	47296-1	A14-6	BOLT						
1	47296-1	1048-28P	CLAMP (HALF)						
1	47296-1	1048-28P	CLAMP (HALF)						
2	47296-1	1048-28	CLAMP (HALF)						
2	47296-1	1048-28	CLAMP (HALF)						
1	47296-1	1048-28P	CLAMP (HALF)						
1	47296-1	1006-7	LUBRICATOR	STD					
1	47296-2	47296-8	BOSS		STEEL	48578			
1	47296-2	47296-7	TUBE		STEEL	48716			
1	47296-2	47296-6	TUBE		STEEL	48716			
1	47296-2	47296-5	TUBE		STEEL	48716			
1	47296-2	47296-4	TUBE		STEEL	48716			
1	47296-2	47296-3	TUBE		STEEL	48716			
1	47296-1	47296-1	STARTER BRKT ASSY						

DESIGNED FOR		DIMENSIONS ARE IN INCHES		LIMITS		FINISH	
NO.	REVISION	DATE	BY	TOLERANCE	ANGLE	SPRUE	DRY WEIGHT
1	INITIAL	12-19-33	ROSS	±.0005	±.01	±.0005	
2	REVISION	1-20-34	ROSS	±.0005	±.01	±.0005	
3	REVISION	7-23-37	ROSS	±.0005	±.01	±.0005	

APPROVED: [Signature] DATE: [Date]

ADDED: [Signature] DATE: [Date]

STARTER CRANK
INSTALL CHECK TO
L.H. BUB AERO

5-10-40
TUBING
DUAL
WAS
1048-28
1048-28P
1066-7

ALTERNATIONS

1) DAY 12-19-33
2) DAY 12-19-33

APPROVAL

PROF. ENG. [Signature]
MKT. CRT. ENG. [Signature]

STRUCTURE [Signature]
SUPERVISOR [Signature]

CHECKED [Signature]
SUPERVISOR [Signature]

NAPER 12-19-33
ROSS 12-19-33
ROSS 12-19-33

STOCK

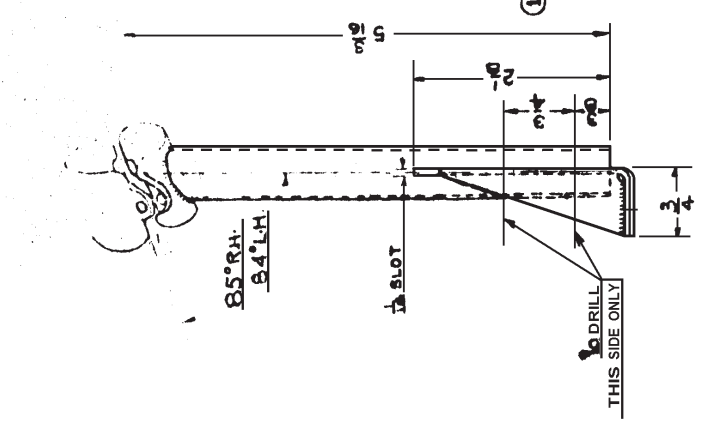
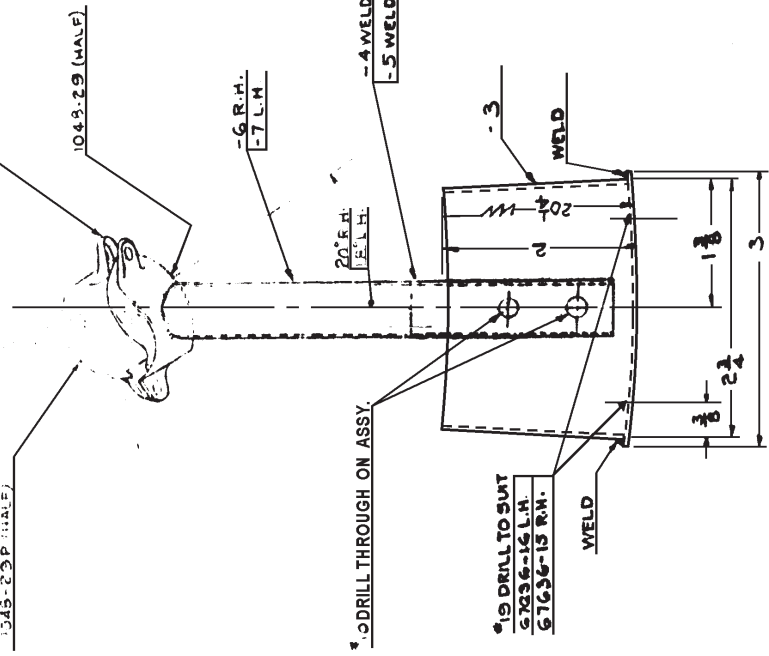
47296-1 47296-2 47296-3 47296-4 47296-5 47296-6 47296-7 47296-8 47296-9 47296-10 47296-11 47296-12 47296-13 47296-14 47296-15 47296-16 47296-17 47296-18 47296-19 47296-20 47296-21 47296-22 47296-23 47296-24 47296-25 47296-26 47296-27 47296-28 47296-29 47296-30 47296-31 47296-32 47296-33 47296-34 47296-35 47296-36 47296-37 47296-38 47296-39 47296-40 47296-41 47296-42 47296-43 47296-44 47296-45 47296-46 47296-47 47296-48 47296-49 47296-50

BRACKET-STARTER
ASSEMBLY

47296

NAVAL AIRCRAFT FACTORY PHILADELPHIA

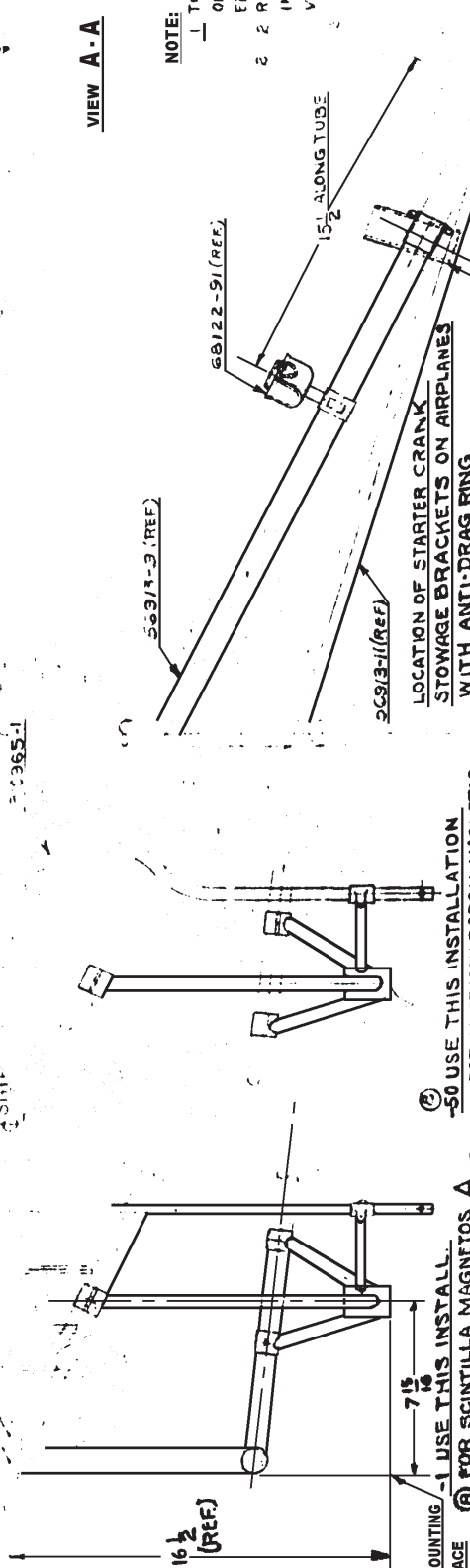
1049-29 (HALF)
AN 4-6



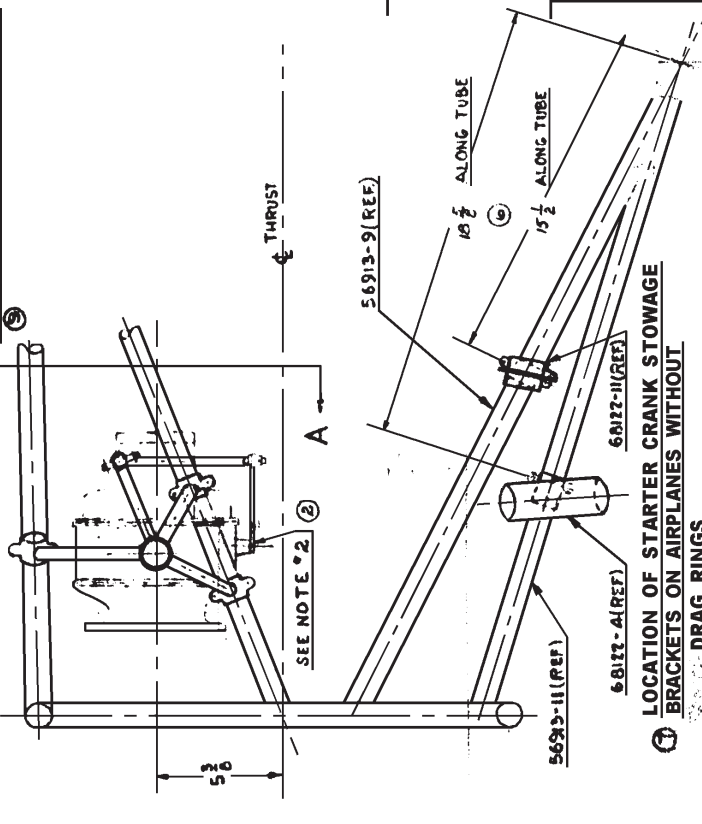
-1 R.H.SUPPORT
-2 L.H.SUPPORT
R.H. SHOWN

QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION
2	-1	-2	AN 4-6	BOLT	STANDARD				
2	-2	-2	AN 30-4	NUT	STANDARD				
2	-1	-2	AN 30-4	COTTER	STANDARD				
1	-1	-2	1048-197	CLAMP (HALF)	STANDARD				
1	-4	-5	1048-19	CLAMP (HALF)	STANDARD				
1	-5	-7	TUBE L.H.	5000-028-1	STEEL	47514			
1	-4	-6	TUBE R.H.	5000-028-1	STEEL	47514			
1	-1	-5	TUBE WELD ASSY L.H.						
1	-1	-4	TUBE WELD ASSY R.H.						
1	-1	-3	PLATE	3 X 5	STEEL	47514			
1	-1	-2	L.H. SUPPORT	ASSEM.					
1	-1	-1	R.H. SUPPORT	ASSEM.					
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
3	3	47298-1	SUPPORT		STEEL	17-50	17-50		
DIMENSIONS ARE IN INCHES. LIMITS: ±.004 DECIMALS ±.010 ANGLES ±.5°, UNLESS OTHERWISE NOTED.									
DESIGNED FOR: WEBSTER 12-4-34									
CHECKED: Ross 12-5-34									
STRUCTURE: 12-5-34									
CHIEF DRAFT: 12-5-34									
PROJ. ENG. 12-5-34									
MET. OFF. ENG. 12-5-34									
APPROVAL									
SUPERSEDED BY									
SCALE									
FULL SIZE									
REF. DRAWING NO.									
47298									
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA									

214504
 AN23-12
 AN310-3
 AN360-20-2
 214504
 AN23-12
 AN310-3
 AN360-20-2
 214504
 AN23-12
 AN310-3
 AN360-20-2



① USE THIS INSTALL. FOR SCINTILLA MAGNETOS. A
 ② USE THIS INSTALLATION FOR AMERICAN BOSCH MAGNETOS.



① LOCATION OF STARTER CRANK STORAGE BRACKETS ON AIRPLANES WITHOUT DRAG RINGS.

VIEW A-A

NOTE:
 1 THIS DWG COVERS STARTER CRANK INSTALLATION ON LEFT SIDE AS AUTHORIZED BY BU LETR AER-E- EF 74304/24 VNSNS/PT-1 OF 11-17-39.
 2 REMOVE STARTER OPERATING LEVER FOR INSTALLATION OF BOLT AS SHOWN IN VIEW A-A

⑤ N3N-3
 MODEL (BUP. AERD. CHS. INC)

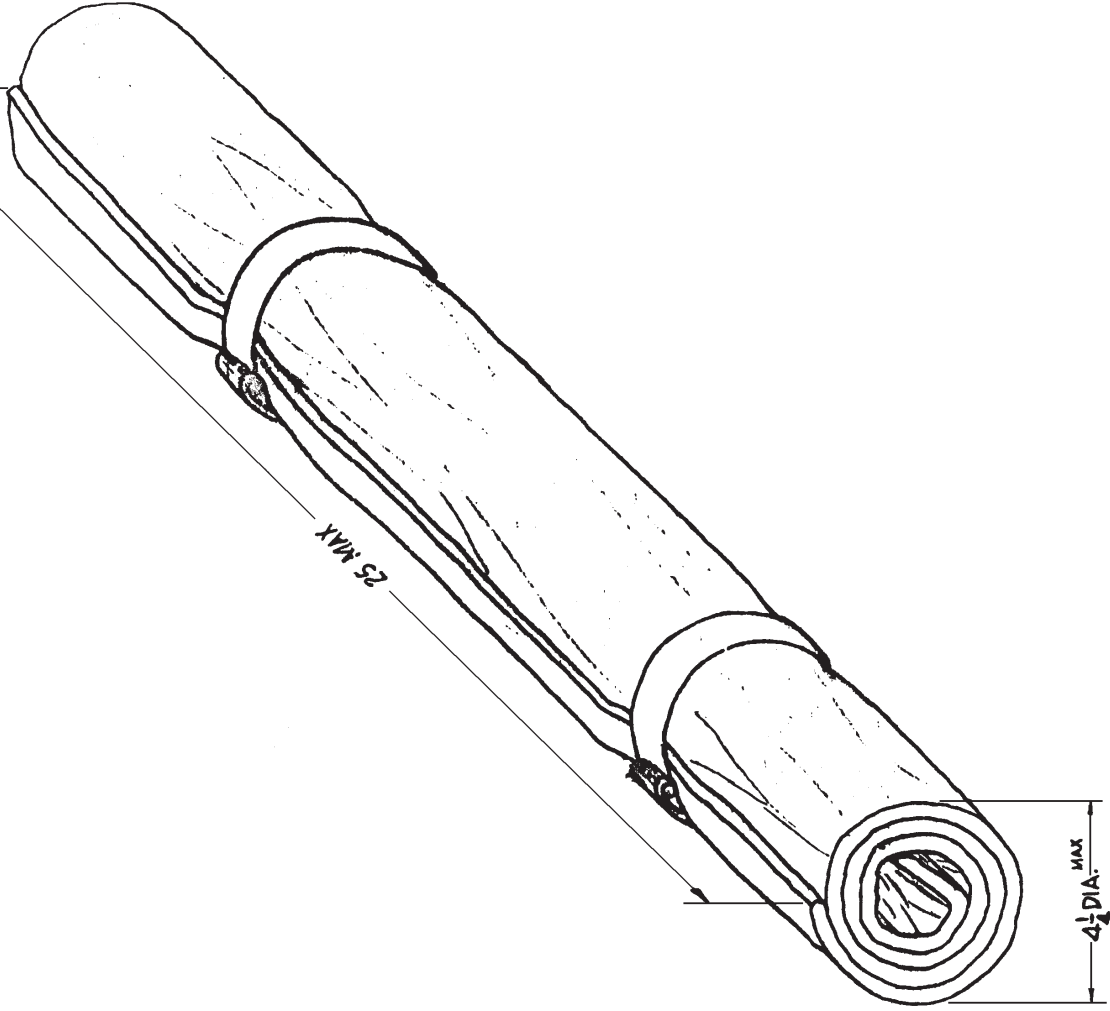
NO.	REQ.	ASSEM.	PART NO.	NAME	STOCK
2	47304-50	AN3-5	BOLT	STD.	
3	47304-50	31096-5	STARTER CONTROL ASSEM.		
4	47304-50	214504	PLATE		
5	68122-1	47304-50	STARTER SYSTEM INSTALL.	(USE WITH BOSCH MAGNETOS ONLY)	
6	68122-2	47304-50	COTTER	STD	
7	68122-3	47304-50	NUT	STD	
8	68122-4	47304-50	BOLT - CLEVIS	STD	
9	68122-5	47304-50	STARTER CONTROL ASSY.		
10	68122-6	47304-50	STARTER BRKT. ASSY.		
11	68122-7	47304-50	STARTER SYSTEM INSTALLATION - LEFT SIDE (USE WITH SCINTILLA MAGNETO ONLY)		

DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/16 DECIMALS ± 0.01 ANGLES ± 1/2 UNLESS OTHERWISE NOTED.
 MATERIAL SPEC. HT. T. 11/30/42 FINISH EST. WT. ACT. WT.
 DRAWN NAPIER
 CHECKED ROSS
 SUPERVISOR
 STRUCTURE
 CHIEF DRFTY.
 PROD. ENG.
 ART. DIR. ENG.
 APPROVAL

STARTER SYSTEM LEFT SIDE INSTALLATION
 SUPERSEDED BY
 SCALE
 SIZE
 NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA
47304

NOTE:

TOOLS PARTS OF THIS KIT TO BE OBTAINED FROM ENGINE TOOL ROOM. ALL TOOLS FURNISHED WITH ENGINE.

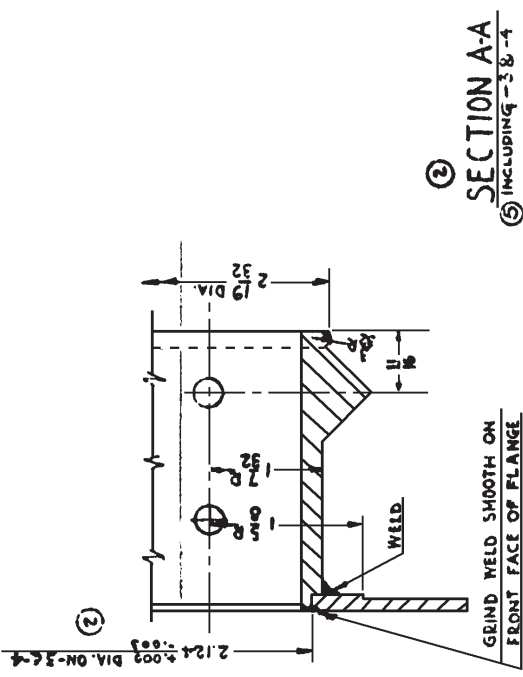
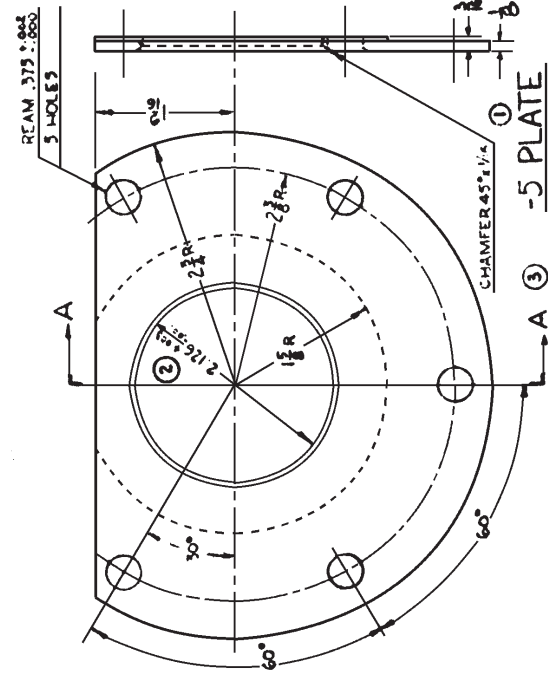


NO. REQ.	ASSEMBLY	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT. NET WT.
1	47432	39475	WRENCH-VALVE CLR						
1		38001	WRENCH-STILLSON						
1		1110-14	WRENCH-SPARK PLUG	6					
1		39485	WRENCH-PUSH ROD ADJ	6					
1		310670-1	WRENCH-CRK. STD NUT	6					
1		310672-1	WRENCH-OPR. VALVE	6					
1		310692-25		6					
1		310692-17		6					
1		310692-4		6					
1		310692-2	WRENCH-OPEN ENDS	6					
1		310671-1	WRENCH-LUG-EXH.	6					
1		35596-1	WRENCH-OIL STD NUT	6					
2		39433	WRENCH-BOX ENDS	6					
1		310693-13		6					
1		310693-33		6					
1		310693-1	WRENCH-BOX ENDS	6					
1		39147-1	WRENCH-BAR-PROP NUT	6					
1		38003-2	WRENCH-ADJ. 0"	6					
1		38003-13	WRENCH-ADJ. 4"						
1		213808-1	STRIP-ALIGN MAG. PIS	6					
1		310664-1	SCREW DRIVER-VLVE CL.						
1		213807-1	SCREW DRIVER-OFFSET						
1		213165-1	SCREW DRIVER-4 1/8"						
1		38008-1	SCREW DRIVER-1 1/4"						
1		39113-1	SCREW DRIVER-CASELET	6					
1		310691-1	PLIERS-PISTON PIN	6					
1		1100-40	PLIERS-WATER PUMP						
1		39107	PLIERS-THIN NOSE						
1		39457	PLIERS-DIAG. CUTTING						
1		38010-1	PIN-DRIFT - 3/16"						
1		213491	MIRROR-MAG. CHECK'G						
1		38028-2	HANDLE FOR WRENCHES	6					
1		1107-5	HAMMER-BALL PEEN						
1		39430-1	GAUGE-TRIELER						
1		38094-1	FILE-ROUND						
1		38085	FILE-THREE SQUARE						
1		38099	FILE-MILL ROUND B'						
1		38084	FILE-HALF ROUND B'						
1		39445-2	WRENCH-OIL-STD NUT	6					
1		38009	CHISEL-COLD-7/16						
1		47432	TOOL KIT						
1		56721	TOOL BAG						

DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ±		STOCK		MATERIAL		SPEC.		HT. T.		FINISH		EST. WT. NET WT.	
N3N-3		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005	
CHECKED		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005	
SUPERVISOR		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005	
STRUCTURE		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005	
CHIEF DRAFT.		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005	
PROJ. ENG.		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005	
MPT. DFT. ING.		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005	
APPROVAL		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005	
ALTERATIONS		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005	
SUPERSEDED BY		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005	
AIRPLANE & ENGINE		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005	
TOOL KIT		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005	
SUPERSEDED BY		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005	
47432		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005	
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005		0.0005	

47432

- ① DRILL
- ② REAM
- ③ REAM
- ④ REAM
- ⑤ REAM
- ⑥ REAM
- ⑦ REAM
- ⑧ REAM
- ⑨ REAM
- ⑩ REAM
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NO. REQ.	ASSEMBLY	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	SET. WT.	ACT. WT.
④	47501	1066-②	BUSHING	STANDARD	STEEL	A7746				
①	47501	47501-⑤	⑤	3/16 x 1/4 x 5/2	STEEL	A7746				
①	47501	47501-②	②	FORGING	STEEL	A7746				
①	47501	47501-①	①	FORGING	STEEL	A7746				
①	68374-③	47501-①	①	FORGING	STEEL	A7746				
①	68374-④	47501-①	①	FORGING	STEEL	A7746				

NO. REQ.	ASSEMBLY	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	SET. WT.	ACT. WT.
④	47501	1066-②	BUSHING	STANDARD	STEEL	A7746				
①	47501	47501-⑤	⑤	3/16 x 1/4 x 5/2	STEEL	A7746				
①	47501	47501-②	②	FORGING	STEEL	A7746				
①	47501	47501-①	①	FORGING	STEEL	A7746				
①	68374-③	47501-①	①	FORGING	STEEL	A7746				
①	68374-④	47501-①	①	FORGING	STEEL	A7746				

DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ±.001 DECIMALS ±.010 ANGLES ±.1° UNLESS OTHERWISE NOTED.

ADDED IN REVISION 2

REVISION 2

REVISION 1

REVISION 0

REVISION -1

REVISION -2

REVISION -3

REVISION -4

REVISION -5

REVISION -6

REVISION -7

REVISION -8

REVISION -9

REVISION -10

REVISION -11

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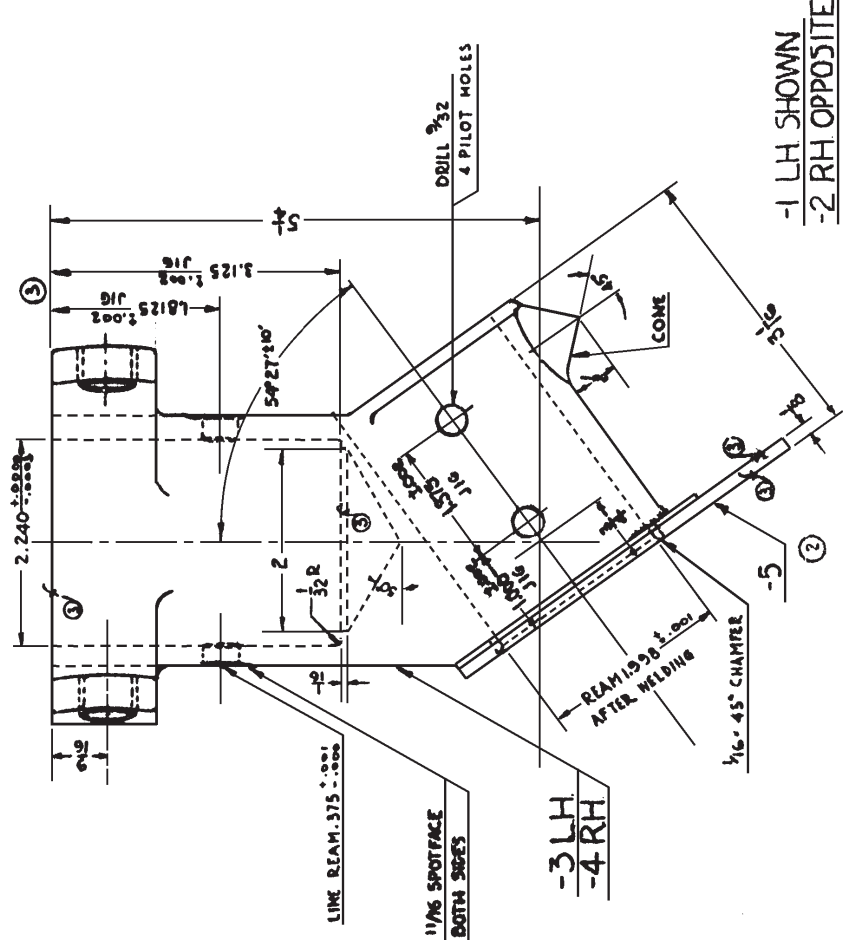
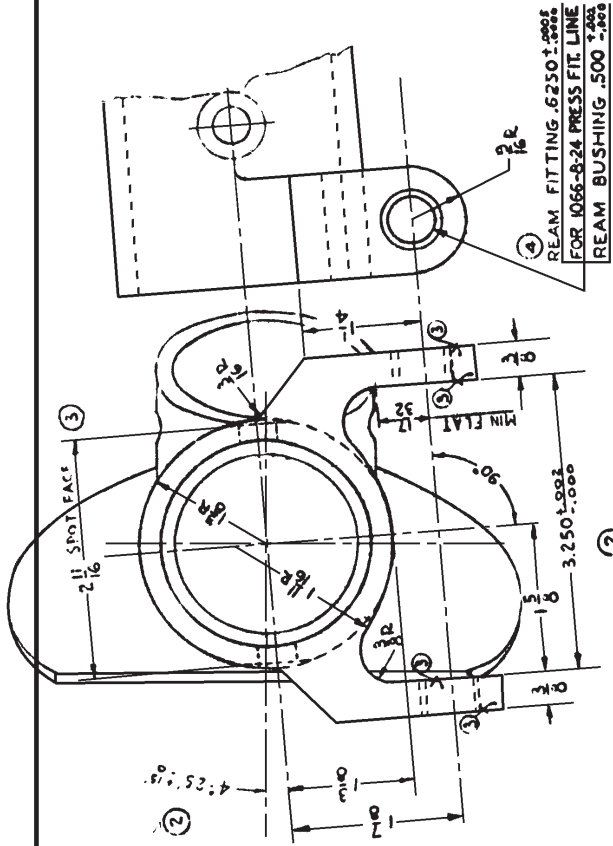
REVISION -99

REVISION -100

FITTING LANDING GEAR
SHOCK STRUT - A/B

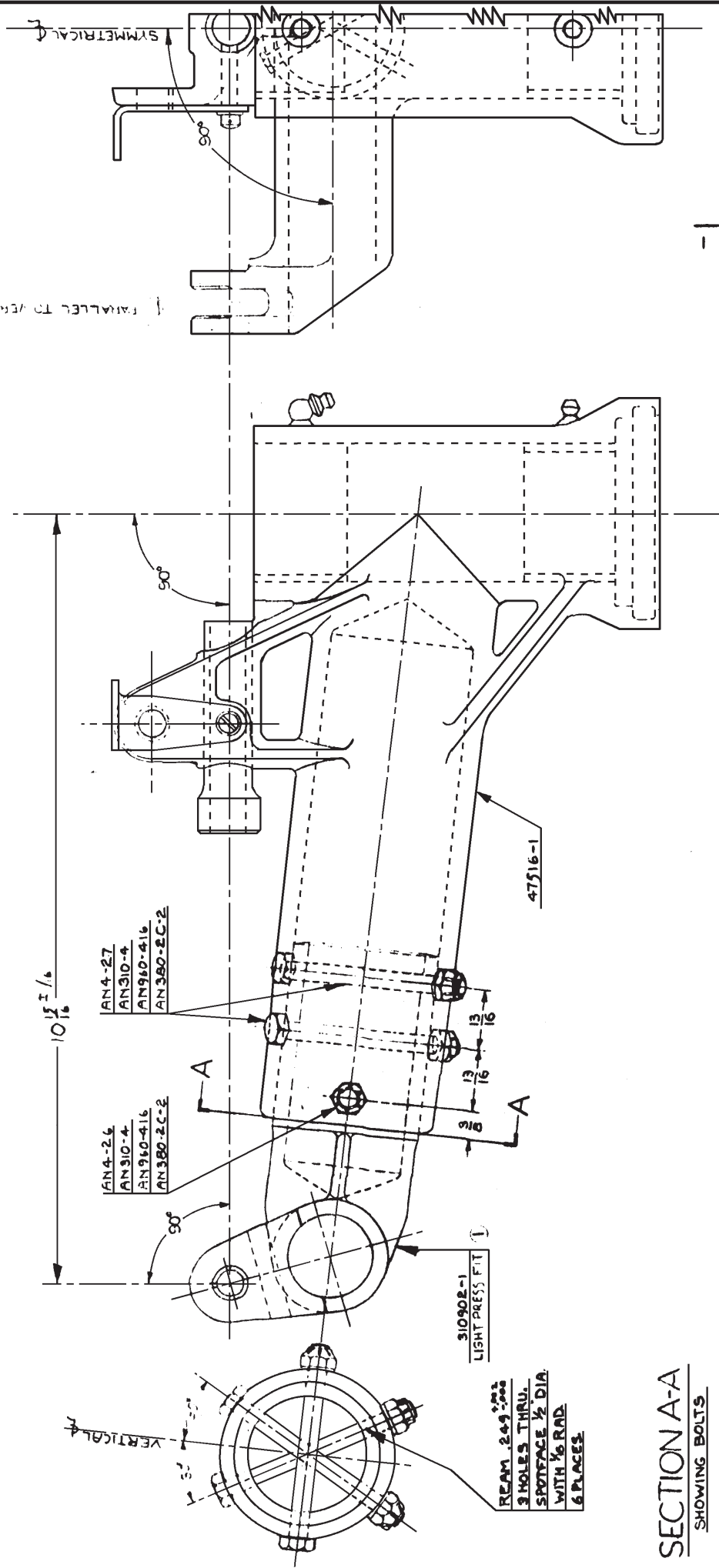
47501

NAVAL AIRCRAFT FACTORY PHILADELPHIA



-1 LH SHOWN
-2 RH OPPOSITE

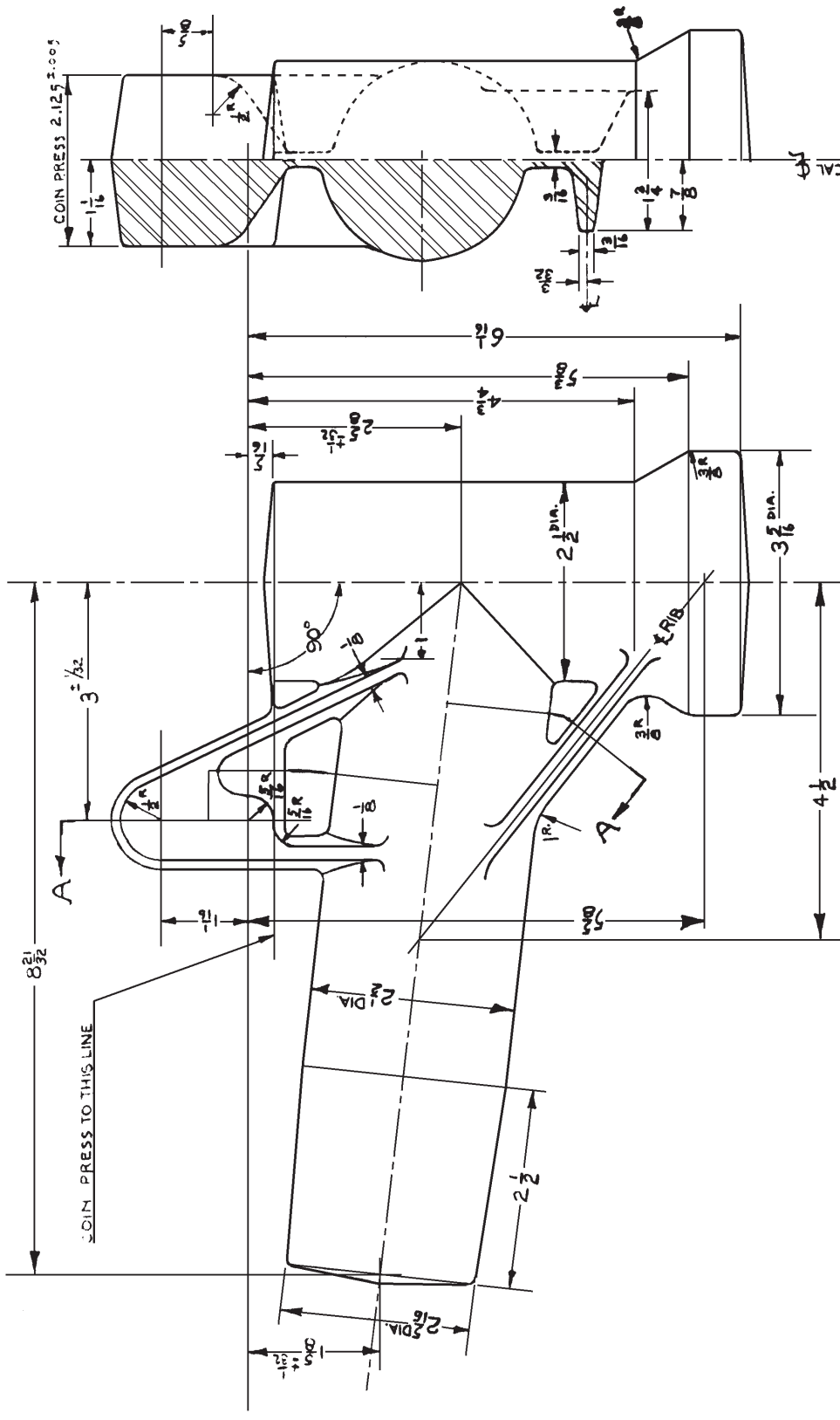
-3 LH
-4 RH



SECTION A-A
SHOWING BOLTS

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
1	47514-1	AN4-26	BOLT	STANDARD						
2	1	AN4-27	BOLT							
3	1	AN310-4	NUT							
3	1	AN910-416	WASHER							
3	1	AN380-2C-2	COTTER	STANDARD						
1	1	310902-1	TEE ASSEM							
1	47514-1	47716-1	HUB ASSEM							
1	67709-2	47514-1	DRAG LINK ASSEM.							
NSN'S --DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS: ± 0.005 DECIMALS ± 0.10 ANGLES $\pm 1/2^\circ$ UNLESS OTHERWISE NOTED.										
ALTERNATIONS DRAWN: [Signature] 10-11-47 CHECKED: [Signature] 10-11-47 SUPERVISOR: [Signature] 10-11-47 STRUCTURE: [Signature] 10-11-47 CHIEF DRAFT: [Signature] 10-11-47 PROJ. ENG. [Signature] 10-11-47 MET. CTRY. ENG. [Signature] 10-11-47 APPROVAL: [Signature] 10-11-47										
LINK - TAIL WHEEL - FORGED DRAG SCALE: FULL SIZE SUPERSEDED BY: 47514 NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA										

47514



SECT. A-A
HALF VIEW

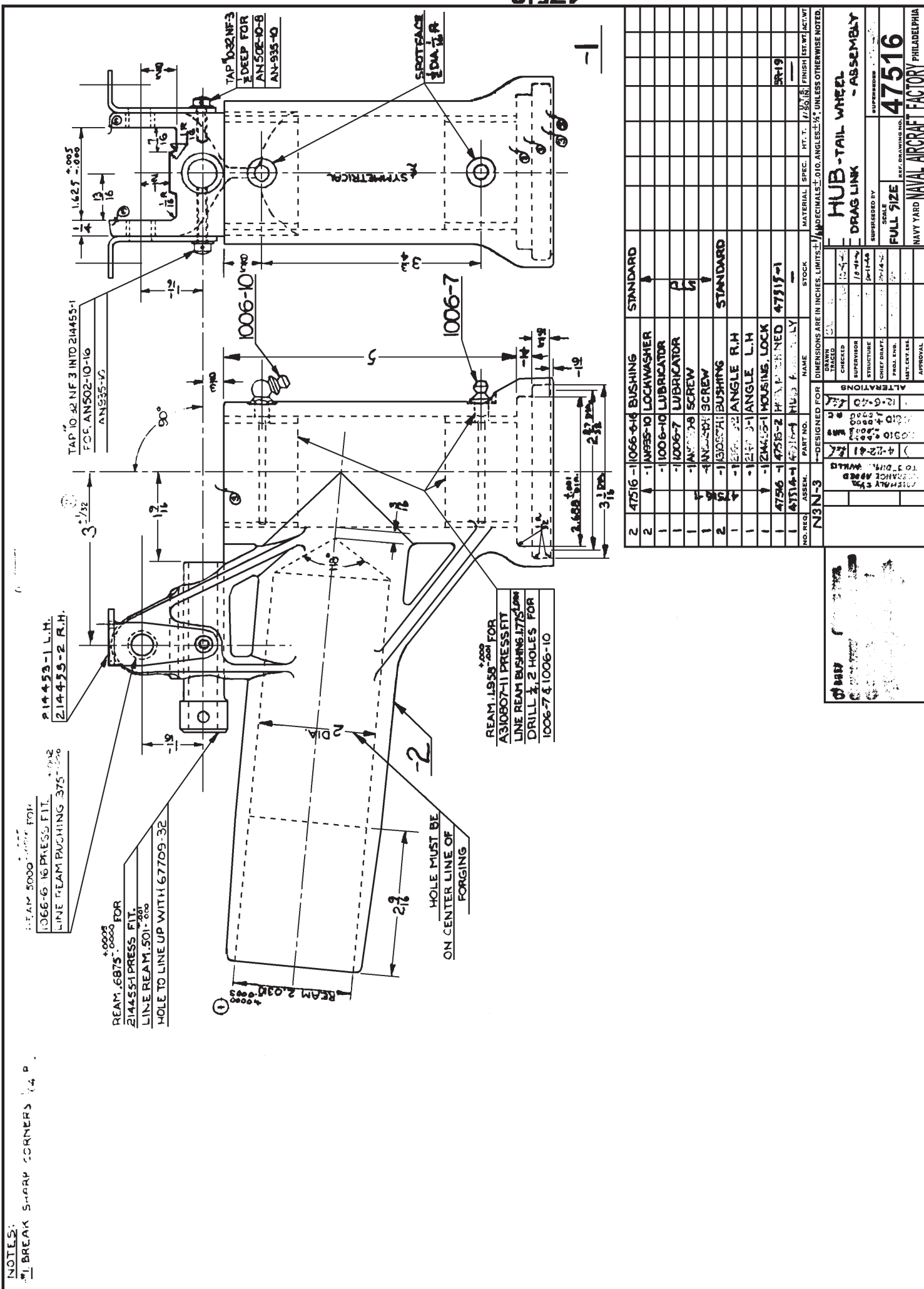
SYMMETRICAL

NO. REC.	ASSEMB.	47516-2	47515-1	HUB	NAME	FORGING	STOCK	AL. ALLOW.	58-73	58-73	25.000	FINISH	EST. WT.	ACT. WT.
DIMENSIONS ARE IN INCHES, LIMITS ±														
DESIGNED FOR														
TACID														
CHECKED														
SUPERVISOR														
STRUCTURE														
CHIEF DRAFT														
PROJ. ENR.														
MFG. ENR.														
APPROVAL														

DRAFT ANGLES 7°.
TOLERANCES +.001, -.001.
BREAK SHARP CORNERS
WITH 1/16" RADIUS.
GRAIN OF MATERIAL TO
FOLLOW CONTOUR OF LUG.
ALL FILLET RADIUS 3/16"

HUB - TAIL WHEEL
- DRAG LINK
- FORGING
SCALE
FULL SIZE
REF. DRAWING NO.
NAVAL AIRCRAFT FACTORY PHILADELPHIA

47515



REAM .6875 ±.0008 FOR
214455-1 PRESS. FIT.
LINE REAM .501 ±.001
HOLE TO LINE UP WITH 67709-32

REAM .1955 ±.001 FOR
A31087-1 PRESS. FIT
LINE REAM BUSHINGS 1775-09M
DRILL 1/2 HOLES FOR
1006-7 & 1006-10

REAM 5000 FOR
1006-6.16 PRESS. FIT.
LINE REAM PAUSHING 375-156

214453-1 L.H.
214453-2 R.H.

TAP 10-32 NF 3 INTO 214453-1
FOR AN502-10-16
AN935-10

TAP 1/8-32 NF 3
DEEP FOR
AN508-10-8
AN-935-10

SPOT FACE
1/2 DIA. 1/16 D

NO. REQ.		ASSEM.	PART NO.	NAME	STOCK	
2	47516	-	1006-4-16	BUSHING	STANDARD	
2			AN935-10	LOCKWASHER		
1			1006-10	LUBRICATOR		
1			1006-7	LUBRICATOR		
1			AN508-10-8	SCREW		
1			AN502-10-16	SCREW		
2			1006-7	BUSHING	STANDARD	
1			1006-7	ANGLE R.H.		
1			214455-1	HOUSING, LOCK		
1	47516	-	47516-2	HUB PINNED	47516-1	
1	47516-1	-	47516-4	HUB PINNED		
MATERIAL		SPEC.	HT. T.	FINISH	INST. BY	ACT. BY
			U. S. N.	11/50		

DESIGNED FOR DIMENSIONS ARE IN INCHES, LIMITS IN DECIMALS, ANGLES IN DEGREES, UNLESS OTHERWISE NOTED.

N3N-3

DESIGNED AND DRAWN BY
CHECKED BY
SUPERVISOR
STRUCTURE
CHIEF DRAFT
PROJ. ENGR.
INST. BY
APPROVAL

ATTRACTIONS
7/20/54
3/20/54
1/10/54
5/28/54
3/24/54
1/10/54
1/10/54

FOR BENCH APPROVAL
FOR FLYING APPROVAL
FOR FIELD APPROVAL

SCALE: 1/2" = 1"

SUPPLEMENTED BY: 2-14-54

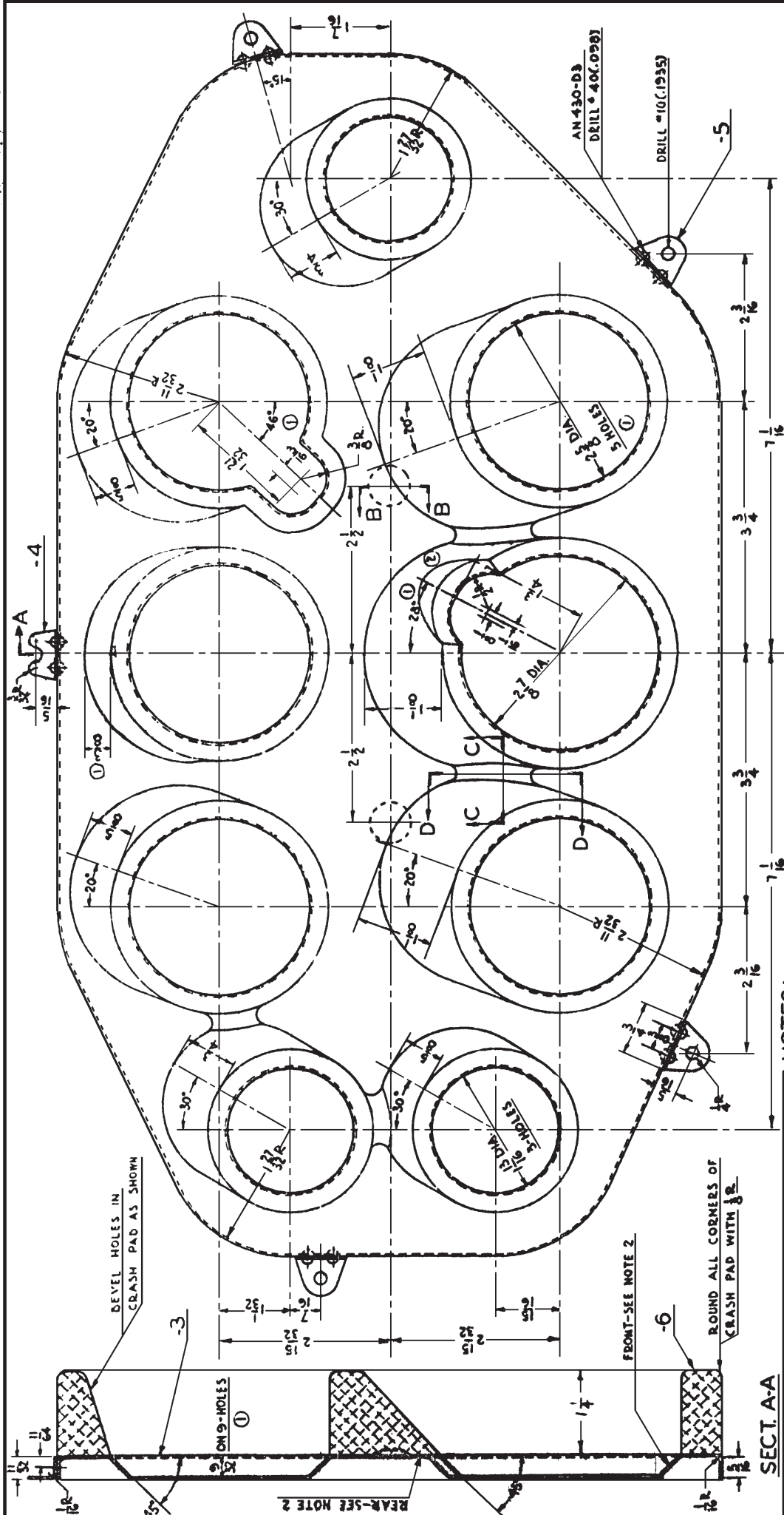
HUB-TAIL WHEEL - ASSEMBLY

DRAG LINK

47516

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

NOTES:
1. BREAK SHARP CORNERS 1/4 P.



-1 ASSEM.

NO.	QTY.	DESCRIPTION	STANDARD	PURCHASE	REMARKS (SEE NOTE 1)
1	1	CRASH PAD		AL ALLOY #1010 SR-S3 65000	
2	1	CLIP - TOP		(WALF FROM -5)	
3	1	REFLECTOR PANEL - DET.		AL ALLOY #1010 SR-S3 65000	
4	1	REFLECTOR PANEL SUB-ASSEM.			

-2 SUB-ASSEM.

NO.	QTY.	DESCRIPTION	STANDARD	PURCHASE	REMARKS (SEE NOTE 1)
1	1	CRASH PAD		AL ALLOY #1010 SR-S3 65000	
2	1	CLIP - TOP		(WALF FROM -5)	
3	1	REFLECTOR PANEL - DET.		AL ALLOY #1010 SR-S3 65000	
4	1	REFLECTOR PANEL SUB-ASSEM.			

DESIGNED FOR

NO.	REC'D	ASSEM.	PART NO.	NAME	STOCK	LIMITS	FINISH	ST. WT.	ACT. WT.
1				LORENZ					
2				LORENZ					
3				LORENZ					
4				LORENZ					

CRASH PAD & REFLECTOR PANEL INSTRUMENT BOARD ASSEMBLY

47548

NAVAL AIRCRAFT FACTORY PHILADELPHIA

NOTES:-

- CRASH PAD - 6 TO BE MANUFACTURED FROM BLACK MOULDED SPONGE RUBBER, SIMILAR OR EQUIVALENT TO GOODRICH RUBBER CO. GRADE #203301. MANUFACTURER SHALL ATTACH CRASH PAD TO REFLECTOR PANEL.
- FINISH - 1 FRONT FACE EXCEPT RUBBER & AREA COVERED BY RUBBER PF-1-45 & 2 COATS OF BLACK VARNISH ENAMEL SPEC. E-6 TYPE I. REAR FACE - PF-1-45 & 2 COATS OF WHITE ENAMEL (EGG SHELL GLOSS).

DEVELOPMENTAL DRAWING

SECTION A-A
TYPICAL SECTION WHERE THICKNESS OF CRASH PAD IS LESS THAN 1/4"

SECTION B-B
SEE NOTE IN SECT. C-C

SECTION C-C
SEE NOTE IN SECT. D-D

SECTION D-D
SEE NOTE IN SECT. C-C

NOTES

- IT IS PERMISSIBLE TO HAVE A 7° (MAX.) DRAFT ANGLE ON ALL PERPENDICULAR SIDES OF HOLE.



NOTICE:
 WITH THE EXCEPTED AREAS, THE
 MULTIPLE USE ZONING DISTRICT
 REGULATIONS SHALL APPLY TO ALL
 PORTIONS OF THE SITE. THE
 ZONING DISTRICT REGULATIONS
 SHALL APPLY TO ALL PORTIONS OF THE SITE.



0392

6 SW-
LTSF
E-ALY

FLANGES AS SHOWN

FLANGE-14

SECTION B-B

AN4 TO MATCH BY
THREADING ENTIRE LENGTH



-15

AN315-2R
AN300-21G
AN925-21G



BASE PLATE SUB ASSY-2

SECTION C-C

COVER-13

NOTE - COVER TO BE
STITCHED ON BACK OF
BUMPER. MAY BE MADE
IN TWO PIECES IF NECESSARY
CUT HOLES IN COVER IN
MAY OF BOLTS. USE DOUBLE
THICKNESS ON SHARP CORNERS.

-4
LOCATE TO SUIT.

FLANGE ALL AROUND

BASE PLATE-3



-6 ASSY

SEW BEADING TO SUIT

BEAD COVER-12

BEAD SUB-ASSY-10

BEAD-11

SECTION A-A

-8 ASSY

DRILL HOLES

NOTES

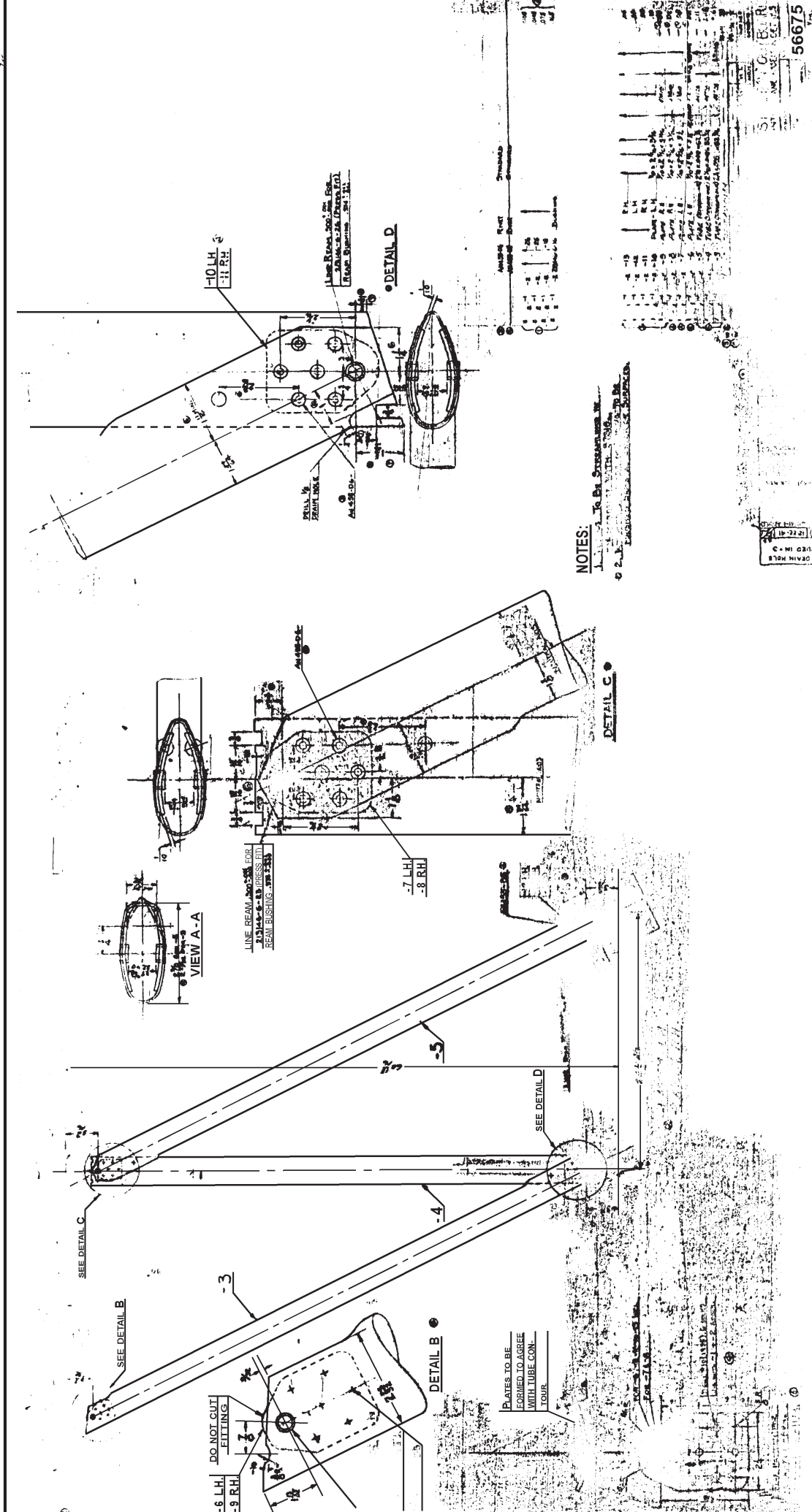
1. SET ALL METAL PARTS IN WET ALUM PASTE. PAINT WITH PLANNERS TO BE SPACED WITH LINED OIL.
2. BEAD SUB-ASSY TO BE TAKEN FROM TEMPLATE.
3. CONTOUR OF BUMPER TO BE TAKEN FROM TEMPLATE.

NON-FLUOROCARBON ITEM
MODEL NAVY ENG BUCORP

2	8	-1	WASHER	STD	AN4-10	CORP 215
8	-1	WASHER	STD	AN4-10	CORP 215	CORP 215
8	-1	NUT	STD	AN4-10	CORP 215	CORP 215
1	-4	BOLT	STD	AN4-10	CORP 215	CORP 215
1	-1	FILLER	STD	AN4-10	CORP 215	CORP 215
1	-12	COVER	STD	AN4-10	CORP 215	CORP 215
1	-10	BEAD	STD	AN4-10	CORP 215	CORP 215
1	-10	BEAD SUB-ASSY	STD	AN4-10	CORP 215	CORP 215
2	-8	PLATE	STD	AN4-10	CORP 215	CORP 215
2	-2	PLATE ASSY	STD	AN4-10	CORP 215	CORP 215
4	-2	PLATE ASSY	STD	AN4-10	CORP 215	CORP 215
4	-2	CHANNEL	STD	AN4-10	CORP 215	CORP 215
2	-2	CHANNEL	STD	AN4-10	CORP 215	CORP 215
2	-2	BASE PLATE	STD	AN4-10	CORP 215	CORP 215
2	-2	BASE PLATE	STD	AN4-10	CORP 215	CORP 215

BUMPER - NOSE FLOAT (DETAILS)

156654



NOTES:
 1. TO BE STRENGTHENED BY...
 2. TO BE STRENGTHENED BY...

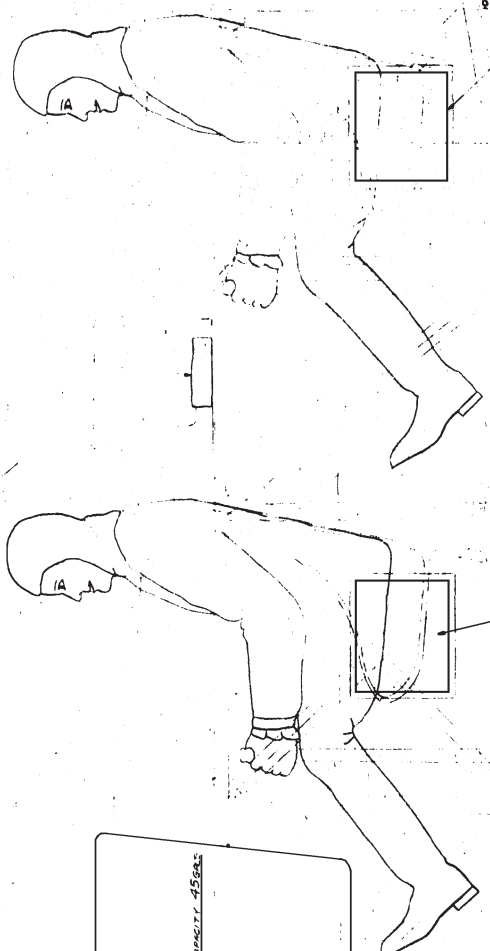
ITEM NO.	DESCRIPTION	QTY	UNIT
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56675

CRAN HOLD
 1972-4-19

OIL TANK
 OIL TANK
 SERVICE CAPACITY: 50 GALLONS

COMPASSION COMPASSION
 1. EMPLOYMENT



Gas Tank Capacity: 45 Gallons

NAVIGATION CHARTS
 PILOTS HANDBOOK

TOOL KIT
 TOOL KIT
 (PARTS LIST IN INSTRUCTIONS)

NAVIGATION CHARTS
 PILOTS HANDBOOK

- 1. 10000 Maintenance & Repair Manual (M/R)
- 2. 10000 Maintenance & Erection Manual (M/E)
- 3. 10000 Flight Manual (FM)
- 4. 10000 Pilot's Handbook
- 5. 10000 Engine Log Kit (ELK)
- 6. 10000 Maintenance & Erection Manual (M/E)
- 7. 10000 Flight Manual (FM)
- 8. 10000 Pilot's Handbook
- 9. 10000 Engine Log Kit (ELK)
- 10. 10000 Maintenance & Erection Manual (M/E)
- 11. 10000 Flight Manual (FM)
- 12. 10000 Pilot's Handbook
- 13. 10000 Engine Log Kit (ELK)
- 14. 10000 Maintenance & Erection Manual (M/E)
- 15. 10000 Flight Manual (FM)
- 16. 10000 Pilot's Handbook
- 17. 10000 Engine Log Kit (ELK)
- 18. 10000 Maintenance & Erection Manual (M/E)
- 19. 10000 Flight Manual (FM)
- 20. 10000 Pilot's Handbook
- 21. 10000 Engine Log Kit (ELK)
- 22. 10000 Maintenance & Erection Manual (M/E)
- 23. 10000 Flight Manual (FM)
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- 26. 10000 Maintenance & Erection Manual (M/E)
- 27. 10000 Flight Manual (FM)
- 28. 10000 Pilot's Handbook
- 29. 10000 Engine Log Kit (ELK)
- 30. 10000 Maintenance & Erection Manual (M/E)
- 31. 10000 Flight Manual (FM)
- 32. 10000 Pilot's Handbook
- 33. 10000 Engine Log Kit (ELK)
- 34. 10000 Maintenance & Erection Manual (M/E)
- 35. 10000 Flight Manual (FM)
- 36. 10000 Pilot's Handbook
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- 38. 10000 Maintenance & Erection Manual (M/E)
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- 91. 10000 Flight Manual (FM)
- 92. 10000 Pilot's Handbook
- 93. 10000 Engine Log Kit (ELK)
- 94. 10000 Maintenance & Erection Manual (M/E)
- 95. 10000 Flight Manual (FM)
- 96. 10000 Pilot's Handbook
- 97. 10000 Engine Log Kit (ELK)
- 98. 10000 Maintenance & Erection Manual (M/E)
- 99. 10000 Flight Manual (FM)
- 100. 10000 Pilot's Handbook

USEFUL LOAD (INSTALLATION)
 56721



MAP CASE

AN 346 240
AN 346 240

1-15-65

STRENGTHENED FULL
PLATE CASE

4 THRU 10

FOOD

FOOD

STRENGTHENED FULL
PLATE CASE

AN 346 240
AN 346 240

MAP CASE
SCALE 1:100

STRENGTHENED FULL
PLATE CASE

REAR

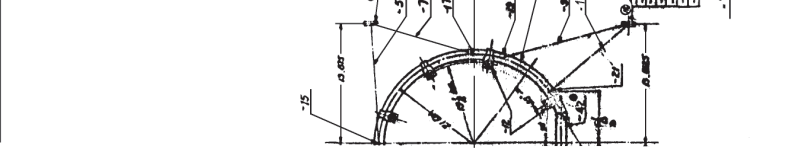
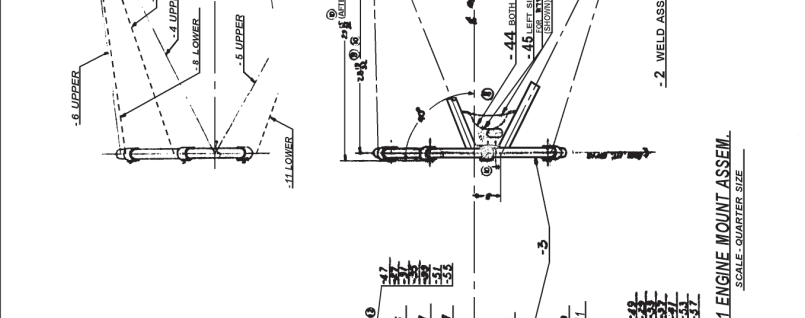
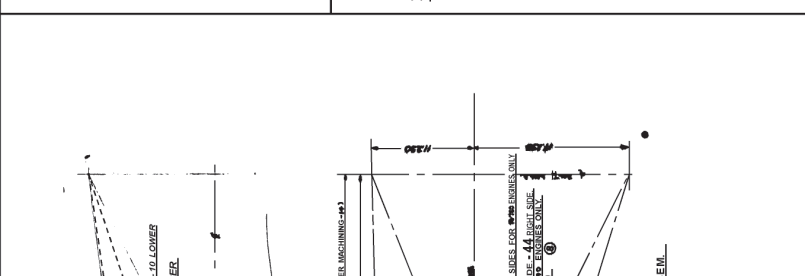
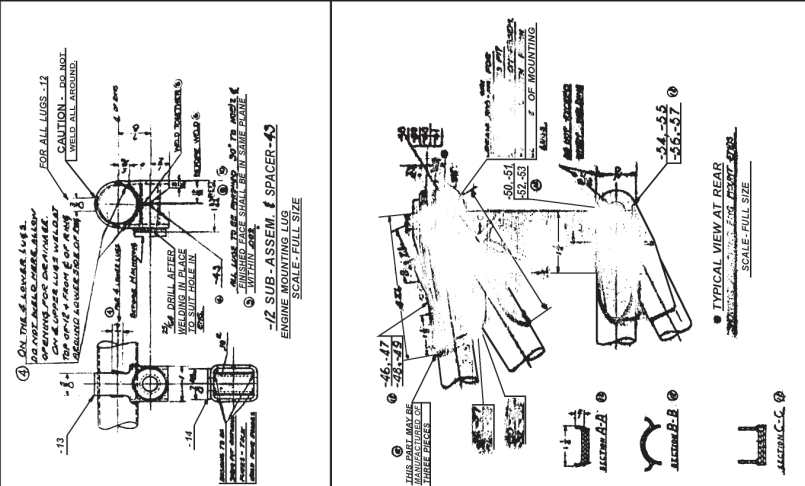
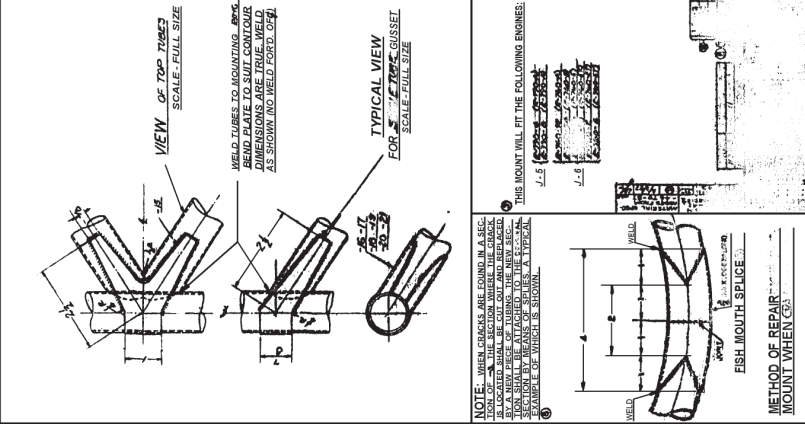
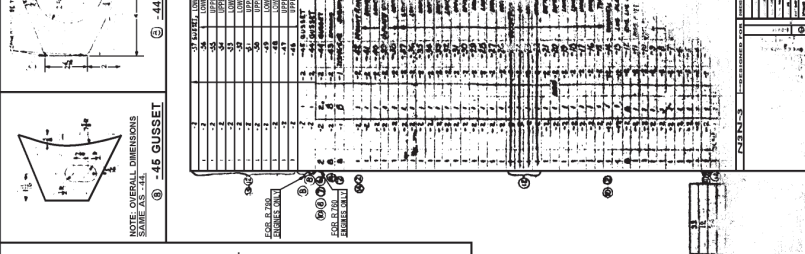
AN 346 240
AN 346 240

NOTES:
1. FACE OF PLATE TO BE PAINTED
BLACK. STRENGTHENED MAP CASE
IN 1/2 INCH ALUM. PAINT.

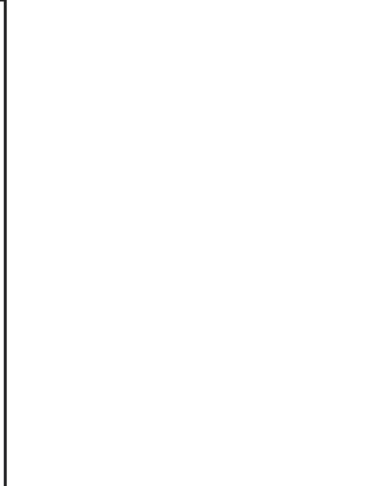
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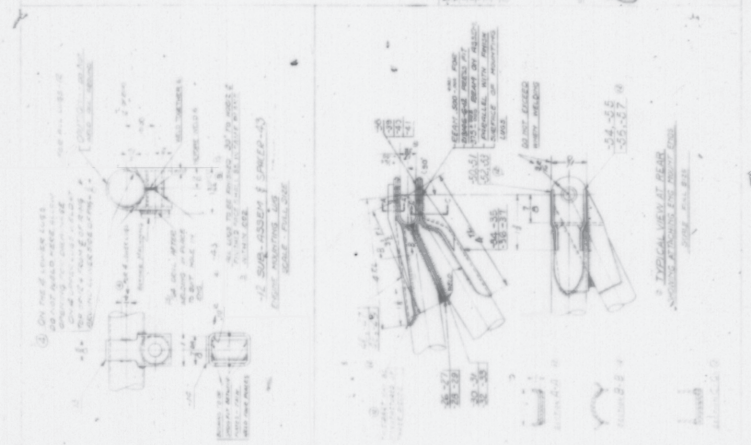
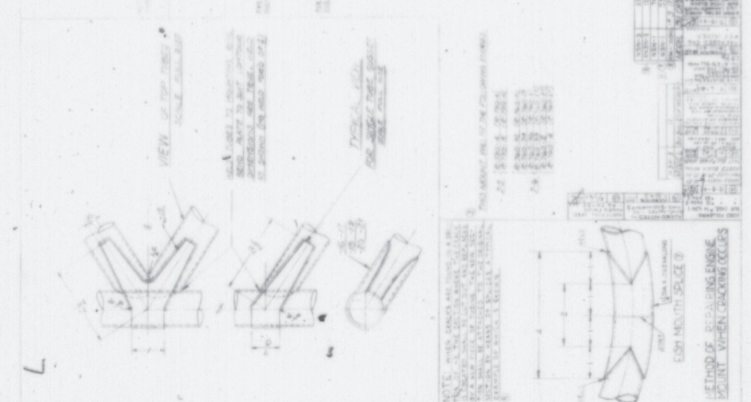
NO.	DESCRIPTION	DATE
1	ASSEMBLED	
2	WELD ASSEMBLY	
3	SPACER & SUB ASSEMBLY	
4	LOWER LUGS	
5	LEFT SIDE LOWER LUGS	
6	RIGHT SIDE LOWER LUGS	
7	LOWER	
8	LOWER LUGS	
9	SPACER & SUB ASSEMBLY	
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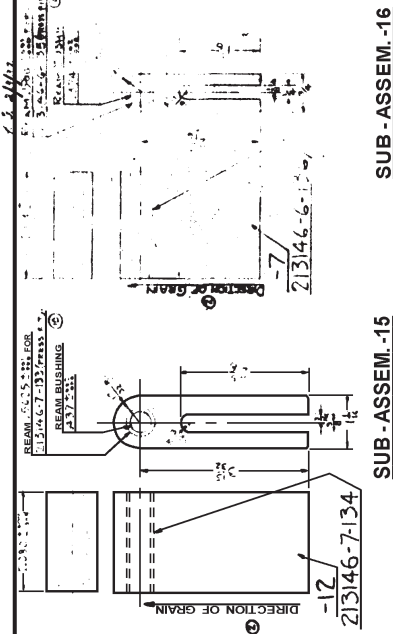


ENGINE MOUNT ASSEMBLY	
NO.	DESCRIPTION
1	ASSEMBLED
2	WELD ASSEMBLY
3	SPACER & SUB ASSEMBLY
4	LOWER LUGS
5	LEFT SIDE LOWER LUGS
6	RIGHT SIDE LOWER LUGS
7	LOWER
8	LOWER LUGS
9	SPACER & SUB ASSEMBLY
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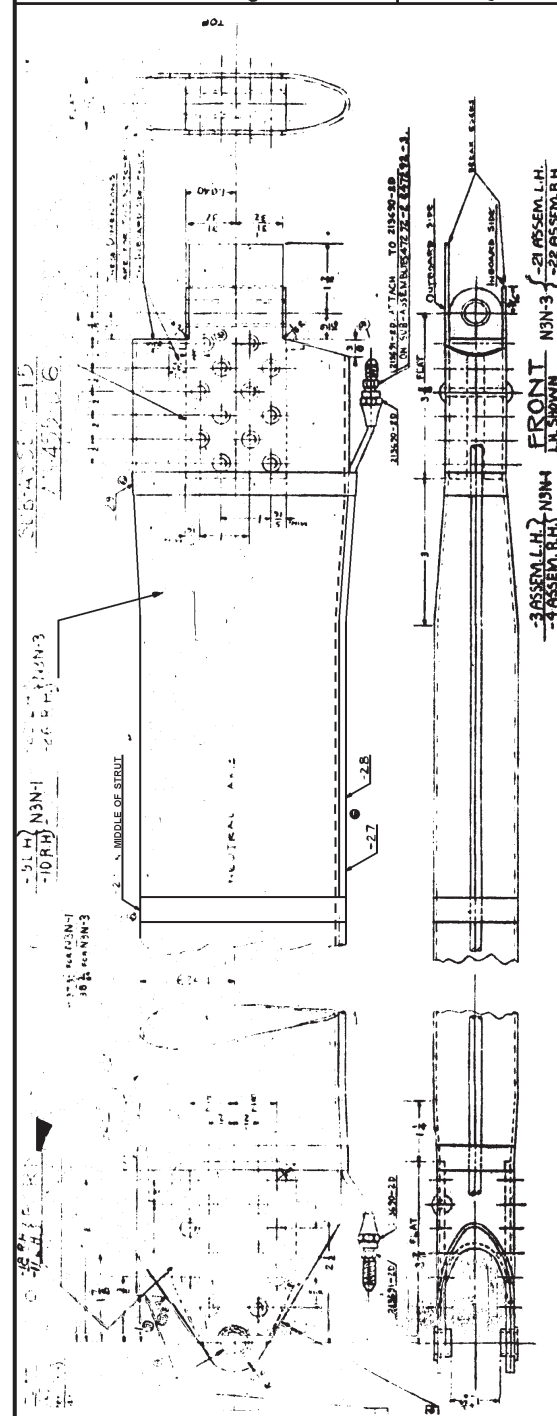
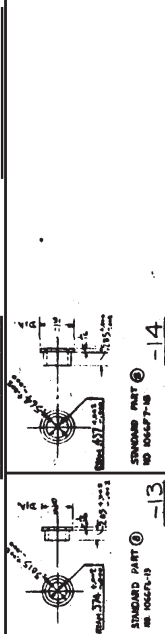


NO.	DESCRIPTION	QTY	UNIT	REMARKS
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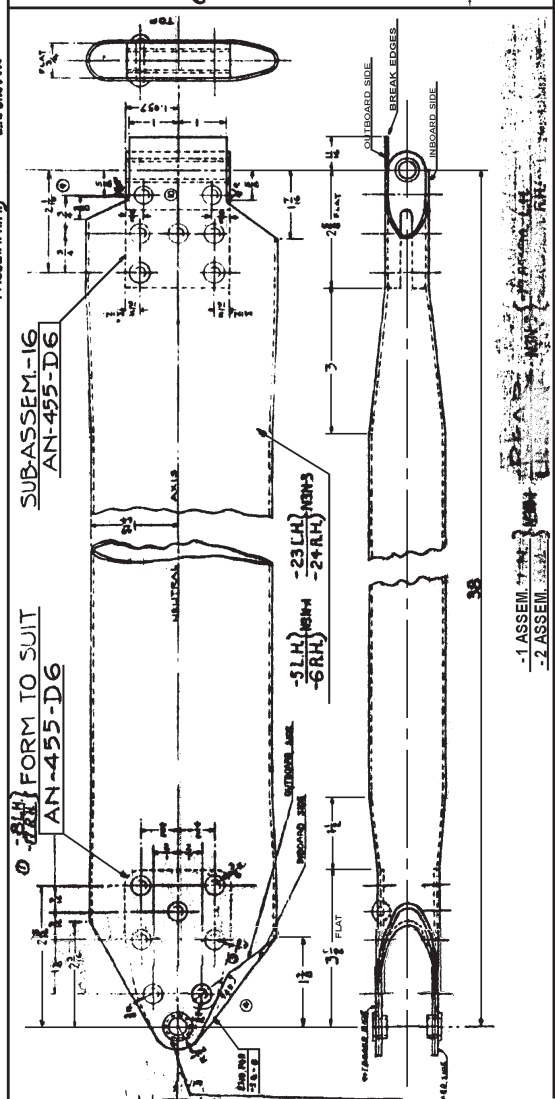


SUB-ASSEM.-15



SUB-ASSEM.-16

NOTES:
 TUBING TO BE STREAM-LINED IN ACCORDANCE WITH DRWG. 37616.
 INTERIOR SURFACES TO BE FINISHED SAME AS EXTERIOR.
 * PARTS -7, -12, -13, AND -14 ARE THE SAME AS EQUIVALENT PART NUMBERS ON DRWG. 44672.
 * BLANKING DIE FOR -11 IS THE SAME AS THAT FOR 44672-11.

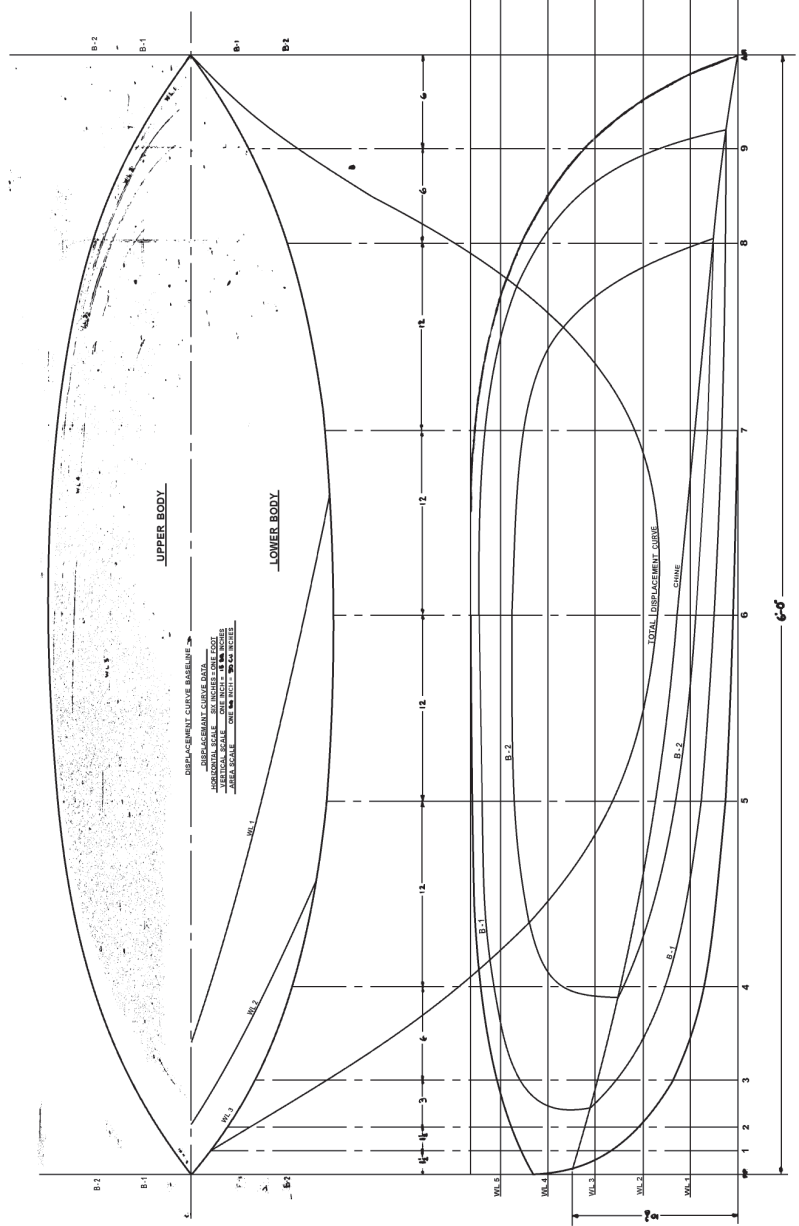


SUB-ASSEM.-16

NO.	DESCRIPTION	QTY.	UNIT	REMARKS
1	STEEL TUBING	1	FT.	
2	STEEL TUBING	1	FT.	
3	STEEL TUBING	1	FT.	
4	STEEL TUBING	1	FT.	
5	STEEL TUBING	1	FT.	
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1-ASSEM. FROM
 2-ASSEM. FROM

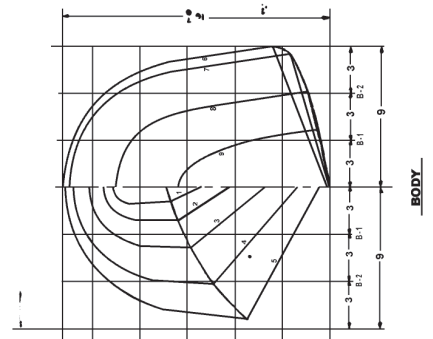
1-ASSEM. FROM
 2-ASSEM. FROM



ROUNDED OFFSETS

HEIGHT	B-1	B-2	CHINE	WL. 1	WL. 2	WL. 3	WL. 4	WL. 5
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HEIGHTS GIVEN IN FEET, INCHES AND FRACTIONS.
 ROUNDED OFFSETS ARE TO INSIDE OF SKIN.



TOTAL DISPLACEMENT = 388'

66598

NO.	DATE	BY	CHKD.	APP'D.	REVISION
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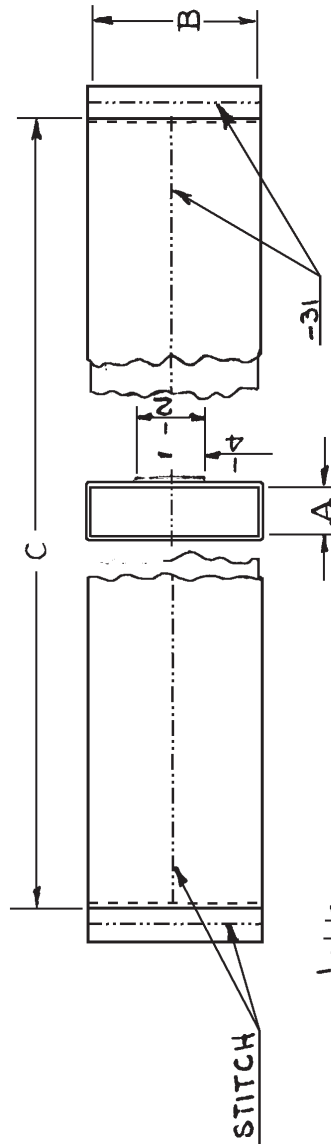
LINES - FLOAT

U V W X Y Z

NOTES:-

1 SEAMS SHALL BE MACHINE SEWED AND ASSEMBLIES SHALL BE IMPREGNATED WITH CASTOR OIL IN ACCORDANCE WITH SPEC. 49C9

DWG. NO	A	B	C
66604-6	3/8	13/16	2
66604-16	3/8	1 1/4	9 1/4
66604-22	3/8	1 1/4	11



-7 ON -6 ONLY.
-17 ON -16 ONLY.
-23 ON -22 ONLY

-8 ON -6 ONLY
-18 ON -16 ONLY
-24 ON -22 ONLY

AS REQ	66604-22	66604-16	66604-6	66604-31	THREAD.	VT-276	NOT FINISH	TYPE	4.0000		
1	-22	-22	-22	-24	FELT PAD	FELT	GRA.	TYPE-12	12		
1	-22	-22	-22	-23	COVERING CANVAS.	CCC-D-771	TYPE-3	12-0Z	NAVY GRAY		
1	-10	-10	-10	-22	PAD UP RR. ASSY.						
1	-16	-16	-16	-18	FELT PAD	FELT	GRA.				
1	-16	-16	-16	-17	COVERING CANVAS	CCC-D-771	TYPE-3	12-0Z	NAVY GRAY		
2	-16	-16	-16	-16	PAD FRONT ASSEMBLY.						
1	-6	-6	-6	-8	FELT PAD.	FELT	GRA.				
1	-6	-6	-6	-7	COVERING CANVAS.	CCC-D-771	TYPE-3	12-0Z	NAVY GRAY		
1	66604-4	66604-4	66604-6	66604-6	PAD ASSEMBLY.						
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.

DESIGNED FOR

DRAWN	6-17-43
CHECKED	W REA
SUPERVISOR	Denin
STRUCTURE	
CHIEF DRAFT.	2/1-44
PROJ. ENG.	7-9-46
ASST. ENGR. ENG.	Barnes
APPROVAL	

ALTERNATIONS

PAD

OIL TANK ASSEMBLY

SUPERSEDED BY

SCALE

REF. DRAWING NO. **66604-6**

NAVY YARD **NAVAL AIRCRAFT FACTORY** PHILADELPHIA

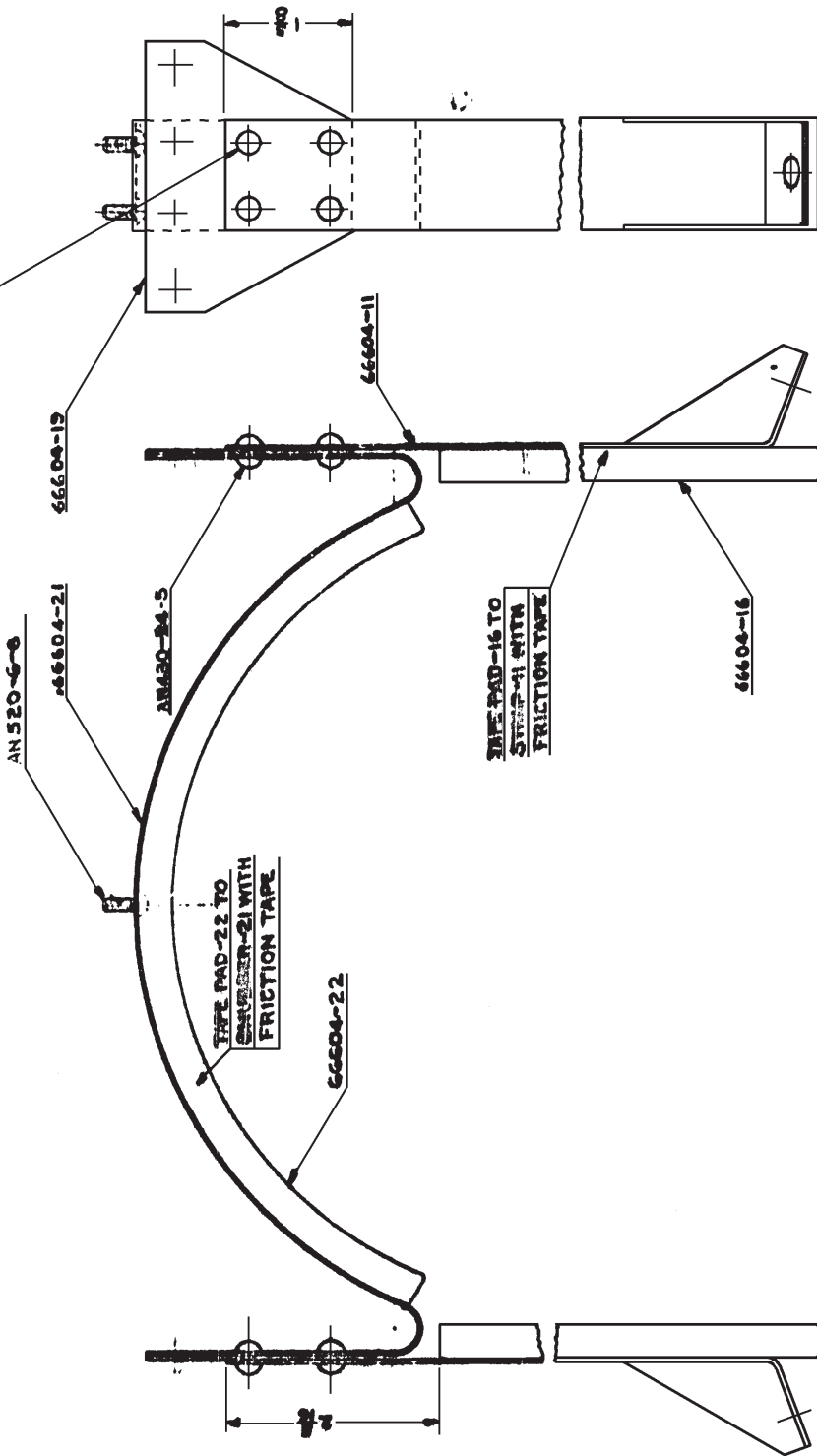
DIMENSIONS ARE IN INCHES. LIMITS ± .010. ANGLES ± 1/4°. UNLESS OTHERWISE NOTED.

66604-10

NOTES:

1 FINISH IN ACCORDANCE WITH SPEC. PF-2 AND PF 1-35 BEFORE ASSEMBLING -16 6-22

DRILL (31.25)
Ø HOLES.
TEMPLATE FROM -11



NO.	REV.	DESCRIPTION	DATE	BY	APP'D.	STANDARD.	MATERIAL SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
1		DESIGNED FOR DIMENSIONS ARE IN INCHES, LIMITS ± DECIMALS ± .010, ANGLES ± ° UNLESS OTHERWISE NOTED.				STRAP-11 OR STRAP-11 (5) ON DWG (66604-6)					
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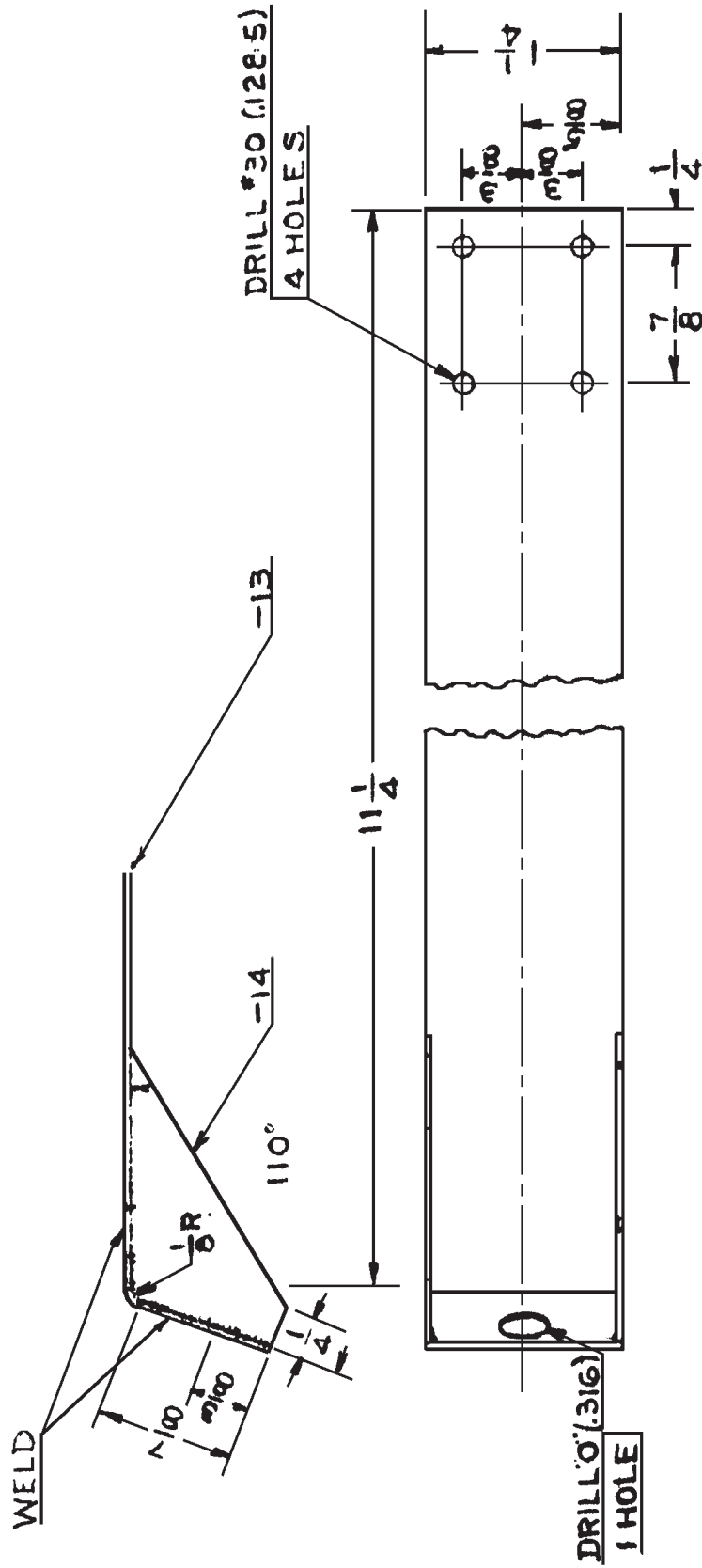
DESIGNED FOR		DIMENSIONS ARE IN INCHES, LIMITS ± DECIMALS ± .010, ANGLES ± ° UNLESS OTHERWISE NOTED.	
CHECKED	TRACED		
SUPERVISOR			
STRUCTURE			
CHIEF DRAFT			
PROJ. ENG.			
MAT. CONT. ENG.			
APPROVAL			

ALTERNATIONS	
NO.	DESCRIPTION

CHECKED	TRACED		
SUPERVISOR			
STRUCTURE			
CHIEF DRAFT			
PROJ. ENG.			
MAT. CONT. ENG.			
APPROVAL			

STAP	
OIL TANK-UPPER ASSEMBLY.	
SUPERSEDED BY	
SCALE	
REF. DRAWING NO.	66604-10
NAVY YARD	NAVAL AIRCRAFT FACTORY PHILADELPHIA

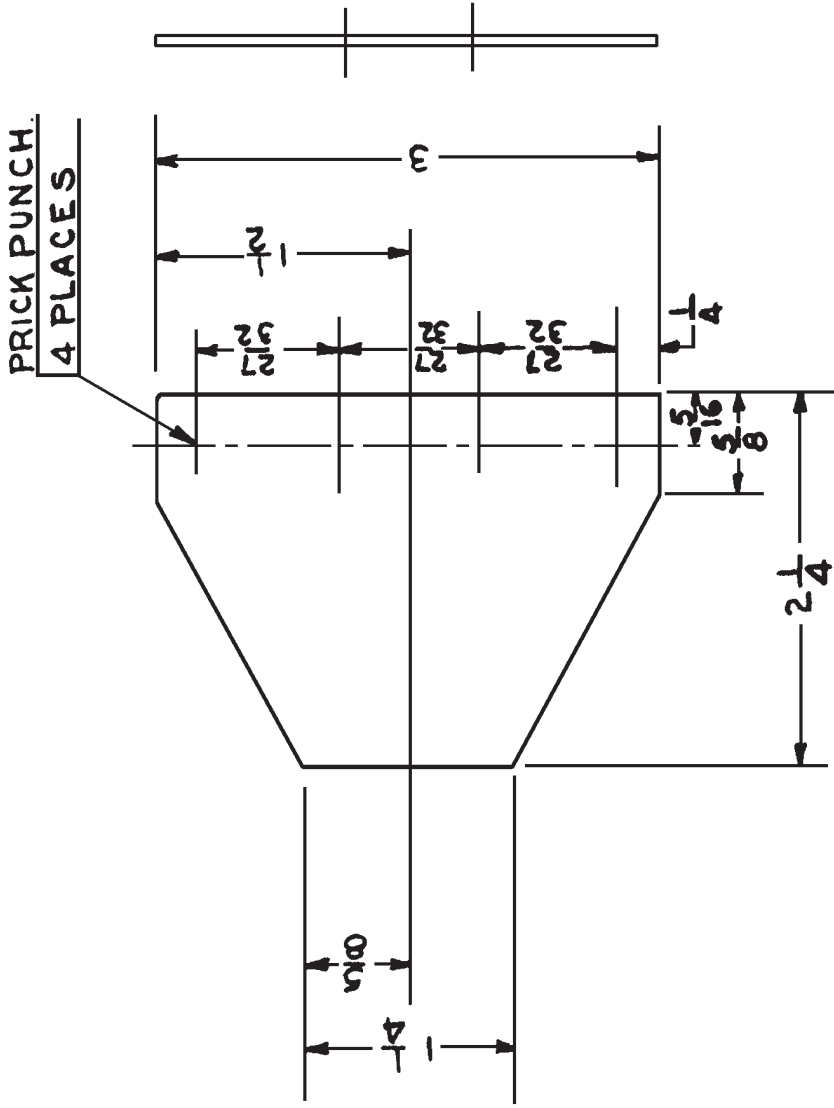
66604-11



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
2	66604-11	66604-14	GUSSET	.035 X 1 1/8 X 2	STEEL	475A					
1	66604-11	66604-13	BAND	.035 X 1 1/4 X 12 7/8	STEEL	475A					
2	66604-11	66604-11	BAND ASSEMBLY						Pf1-42		
<p>NO. REQ. ASSEM. PART NO. NAME STOCK MATERIAL SPEC. HT. T. U.T.S. FINISH EST. WT. ACT. WT.</p> <p>N3N-3 ← DESIGNED FOR</p> <p>DIMENSIONS ARE IN INCHES. LIMITS ± 1/32 DECIMALS ± .010, ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.</p>											
<p>BAND</p> <p>OIL TANK ASSEMBLY.</p> <p>SUPERSEDED BY</p> <p>SCALE FULL SIZE</p> <p>REF. DRAWING NO. 66604-11</p> <p>NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA</p>											

66604-19

Rev. 7/10/40

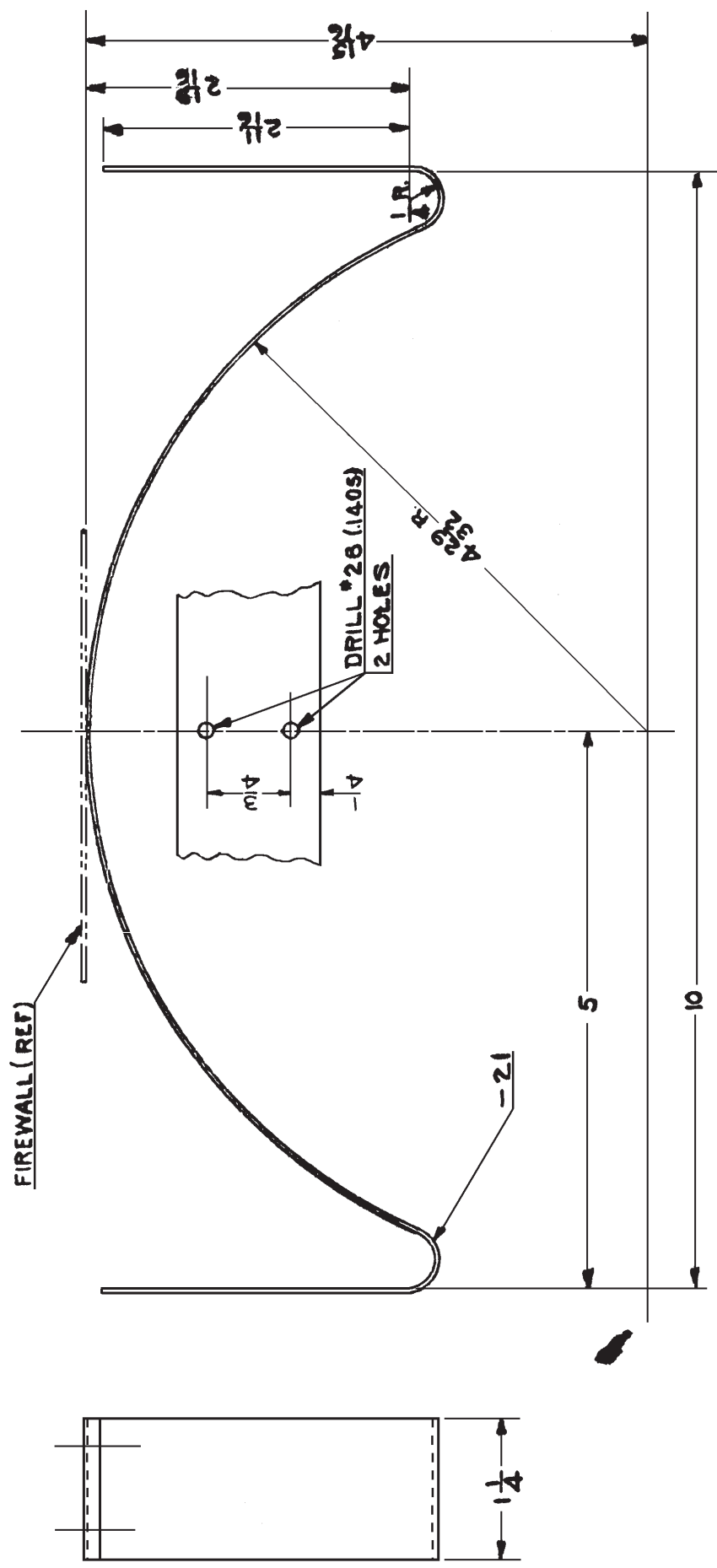


2	66604-10	66604-19	PLATE	035 X 2 1/4 X 3	STEEL	47314	FF-142		
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH
N3N-3				DIMENSIONS ARE IN INCHES. LIMITS $\pm 1/32$ DECIMALS $\pm .010$, ANGLES $\pm 1/2^\circ$, UNLESS OTHERWISE NOTED.					
ALTERNATIONS				DRAWN TRACED					
				CHECKED					
				SUPERVISOR					
				STRUCTURE					
				CHIEF DRAFT.					
				PROJ. ENG.					
				ASST. CN'P. ENG.					
				APPROVAL					
				SUPERSEDED BY					
				SCALE					
				FULL SIZE					
				REF. DRAWING NO.					
				66604-19					
				NAVAL AIRCRAFT FACTORY PHILADELPHIA					

PLATE
OIL TANK STRAP.

10-VU999

Rev 2/10/40



1	66604-10	66604-21	3	022111-X 19	STOCK	66604-21A4	HT. T. 1/50 IN.	FINISH	EST. WT. ACT. WT.
NO. REQ.	ASSEM.	PART NO.	NAME	DIMENSIONS ARE IN INCHES, LIMITS ±		MATERIAL SPEC.	DECIMALS ±.010, ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.		
N3N-3				←DESIGNED FOR					
				ALTERNATIONS					
				DRAWN TRACED					
				CHECKED					
				SUPERVISOR					
				STRUCTURE					
				CHIEF DRAFT.					
				PROJ. ENG.					
				ASST. CHIEF ENG.					
				APPROVAL					
						SUPERSEDED BY			
						REF. DRAWING NO.		66604-21	
						NAVAL AIRCRAFT FACTORY PHILADELPHIA			

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OIL TANK UPPER

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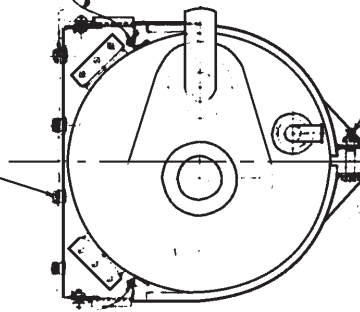
66637-100

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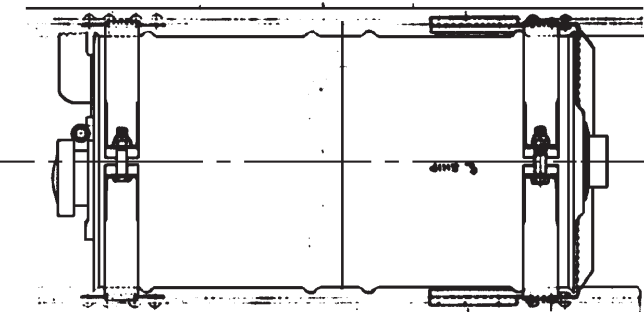
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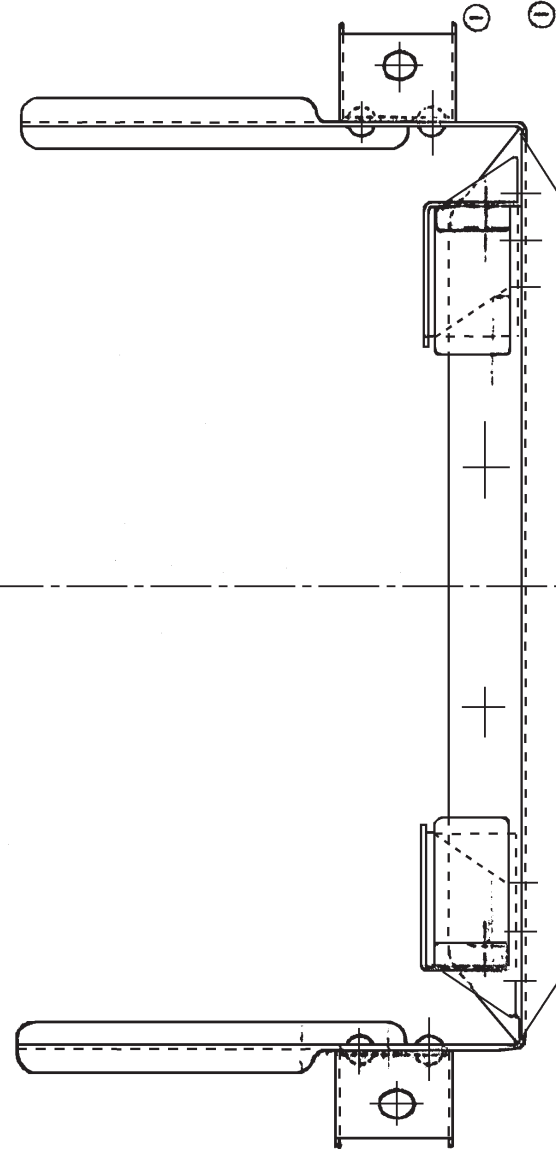
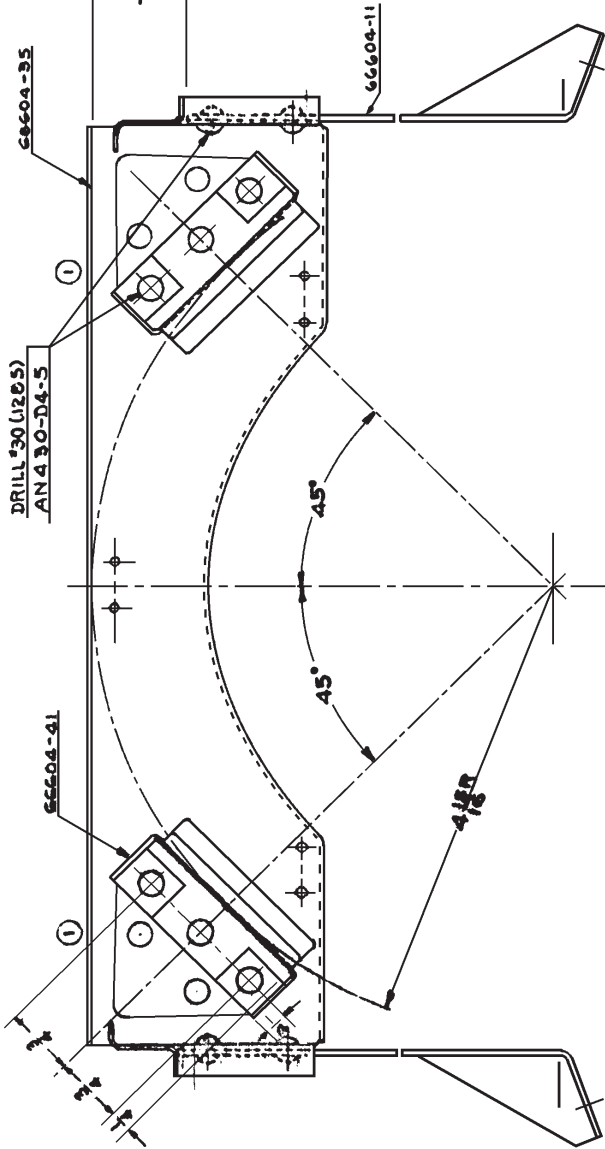
NOTES: -

1. BONDING TO BE IN ACCORDANCE WITH SPEC. 88-10

NO. REC.		ASSEMBLY		PART NO.		NAME		STOCK		INTERNAL SPEC.		FINISH		MATERIAL		REMARKS	
NO.		NO.		NO.		NO.		NO.		NO.		NO.		NO.		NO.	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
STANDARD																	
REVISIONS ARE IN THESE LIMITS: RECALCULATE ANGLES, UNLESS OTHERWISE NOTED																	
-OIL																	
66604-33																	
NAVAL AIRCRAFT FACTORY																	

NOTES:

1 FINISH IN ACCORDANCE WITH SPEC. PF2 AND PF1-85 EXCEPT -4 WHICH HAS BEEN FINISHED.



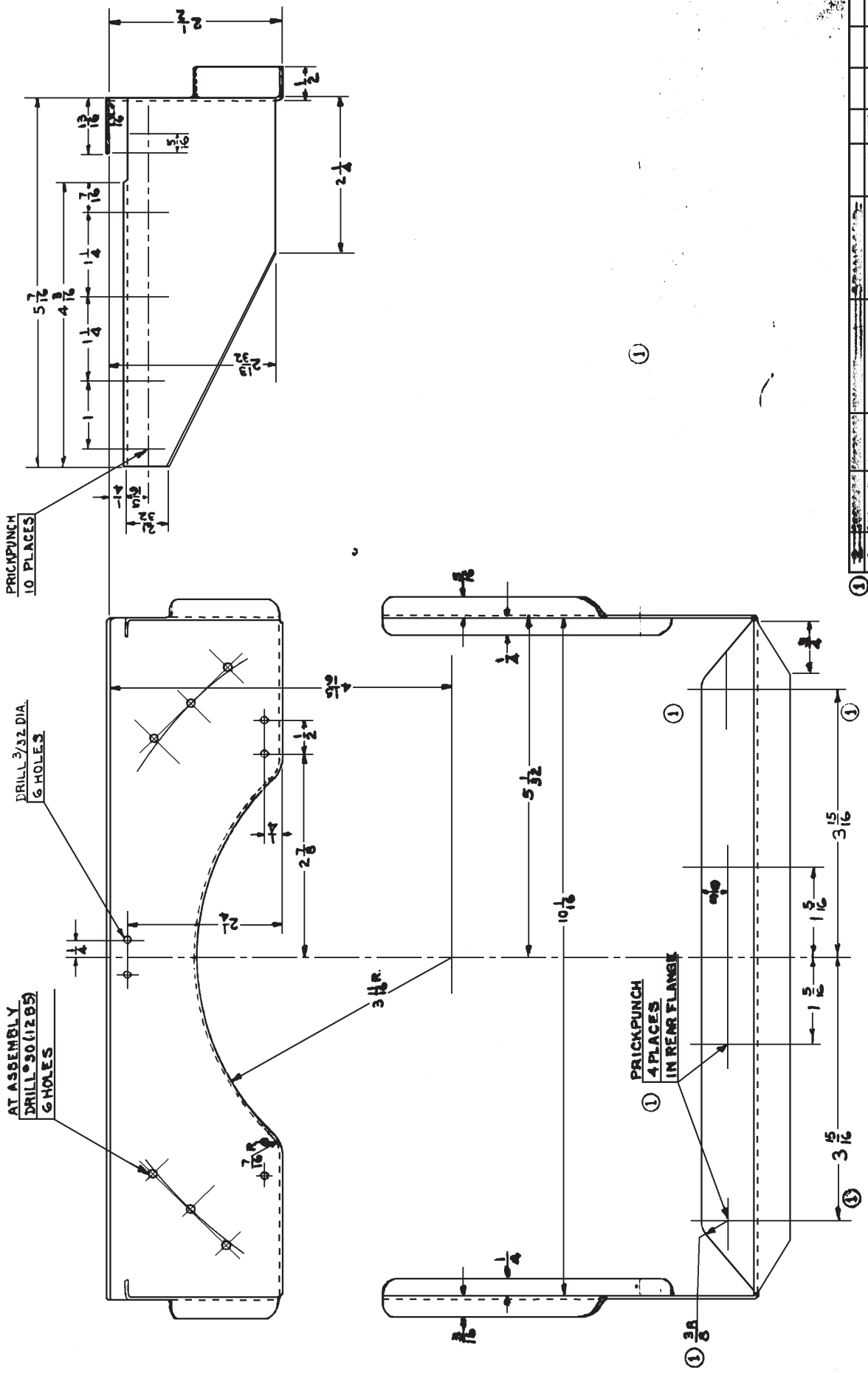
-34 ASSEMBLY

N3N-3	15
MODEL	BUREAU AERO CHANGE

NO. REC'D	ASSEMBLY	PART NO.	NAME	STOCK	MATERIAL	SPEC.	MT. T.	U. V. S.	FINISH	EST. WT. ACT. WT.	DECIMALS ±		DIMENSIONS	LIMITS ±	UNLESS OTHERWISE NOTED.
											1/100	1/1000			
15	66604-34	1	STANDARD												
1															
2															
1															

DESIGNED FOR				CHECKED				SUPERVISOR				CHIEF DRAFT				FINAL ENG.				MTCY ENL				APPROVAL			
N3N-3				TANK																							

SUPERSEDED BY		SUPERSEDED BY	
OIL TANK-LOWER ASSEMBLY.		OIL TANK-LOWER ASSEMBLY.	
66604-34		66604-34	
NAVAL AIRCRAFT FACTORY PHILADELPHIA		NAVAL AIRCRAFT FACTORY PHILADELPHIA	



NO. REC.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	FINISH	HT. T.	FINISH (EST. WT)	ACT. WT
1		N3N-3	DESIGNED FOR		ALUM. AL. 6061		1/50		
DIMENSIONS ARE IN INCHES, LIMITS ± .02 DECIMALS ± .010 ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.									
ALTERATIONS									
DRAWN		SUPERSEDED BY							
CHECKED		SCALE							
SUPERVISOR		FULL SIZE							
STRUCTURE		NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA							
LINE DRAFT		SUPERSEDED BY							
PROJ. ENG.		SCALE							
APP. ENG.		FULL SIZE							
APPROVAL		NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA							

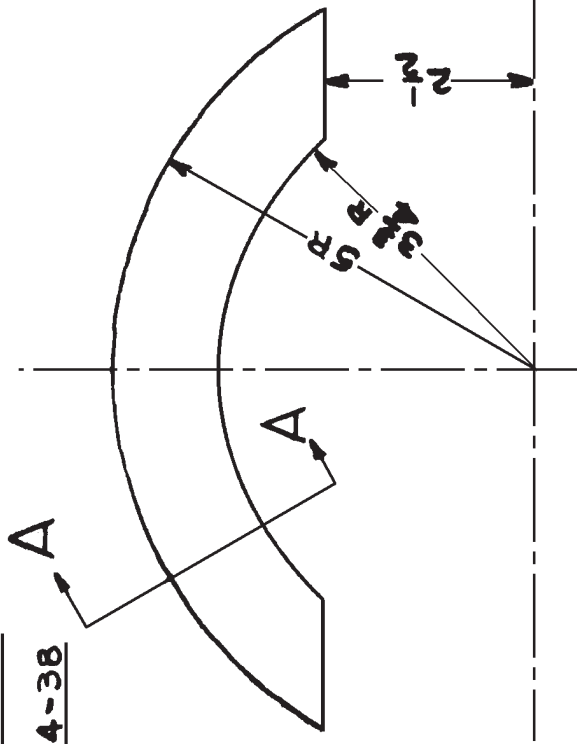
66604-36

Rev. 7/10/40

NOTES:

THIS PAD SHALL BE IMPREGNATED WITH CASTOR OIL IN ACCORDANCE WITH SPEC. 49CB.

66604-31
66604-37
66604-38



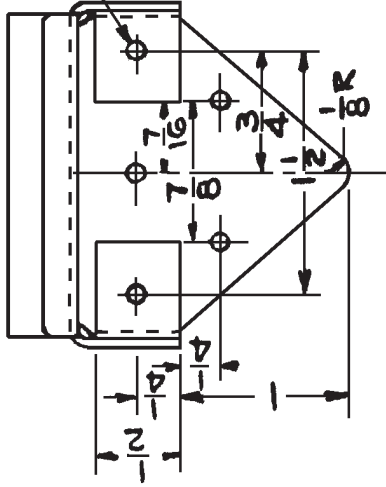
SECTION A-A

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.																																																																																																																				
2	66604-36	66604-37	COVERING CANVAS	6 X 9 1/2	CCC-DT71	TYPE 3	120Z		NAVY GRAY.																																																																																																																						
1	66604-36	66604-37	FELT	1/4 X 2 1/2 X 0 3/4	FELT	(F1243A)																																																																																																																									
1	66604-36	66604-38	TANK D.			VT276																																																																																																																									
1	66604-36	66604-38	TANK ASSEM																																																																																																																												
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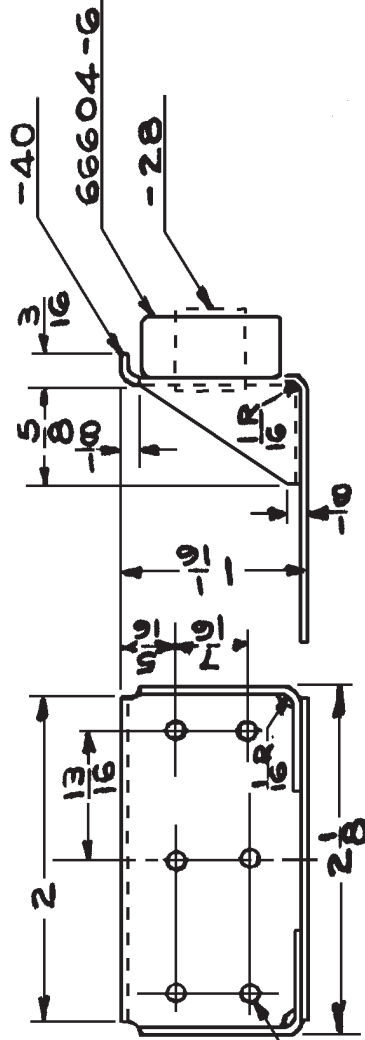
66604-41

U.S. 6/18/41

AT ASSEMBLY DRILL
 $\frac{3}{32}$ (.1285) 5 HOLES



N3N-3	15
MODEL	BUREAU AERO CHANGE



DRILL #42(.093)
 6 HOLES

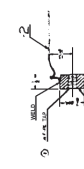
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	UTS.	FINISH	EST. WT.	ACT. WT.																																
1	66604-41	66604-28	LACING																																								
1	-41	-6	PAD - SUB. ASSEMBLY																																								
2	66604-24	66604-40	ANGLE		040 X 2 7/8 X 3 1/2	ALUMAL	47A4		PF-191																																		
N3N-3		←	DESIGNED FOR	DIMENSIONS ARE IN INCHES. LIMITS $\pm \frac{1}{32}$ DECIMALS $\pm .010$ ANGLES $\pm \frac{1}{2}^\circ$, UNLESS OTHERWISE NOTED.																																							
ALTERNATIONS			<table border="1"> <tr> <td>DRAWN</td> <td>TRACED</td> <td>DATE</td> <td>BY</td> </tr> <tr> <td>CHECKED</td> <td></td> <td>6-14-41</td> <td></td> </tr> <tr> <td>SUPERVISOR</td> <td></td> <td>6-14-41</td> <td></td> </tr> <tr> <td>STRUCTURE</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHIEF DRAFT.</td> <td></td> <td>6-12-41</td> <td></td> </tr> <tr> <td>PROJ. ENG.</td> <td></td> <td>6-18-41</td> <td></td> </tr> <tr> <td>ASST. ENGRS.</td> <td></td> <td>6-20-41</td> <td></td> </tr> <tr> <td>APPROVAL</td> <td></td> <td></td> <td></td> </tr> </table>									DRAWN	TRACED	DATE	BY	CHECKED		6-14-41		SUPERVISOR		6-14-41		STRUCTURE				CHIEF DRAFT.		6-12-41		PROJ. ENG.		6-18-41		ASST. ENGRS.		6-20-41		APPROVAL			
DRAWN	TRACED	DATE	BY																																								
CHECKED		6-14-41																																									
SUPERVISOR		6-14-41																																									
STRUCTURE																																											
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ASST. ENGRS.		6-20-41																																									
APPROVAL																																											
ADDED BUR.			<table border="1"> <tr> <td>NO.</td> <td>DESCRIPTION</td> <td>DATE</td> <td>BY</td> </tr> <tr> <td>1</td> <td>ADDED BUR.</td> <td>6-12-41</td> <td></td> </tr> </table>									NO.	DESCRIPTION	DATE	BY	1	ADDED BUR.	6-12-41																									
NO.	DESCRIPTION	DATE	BY																																								
1	ADDED BUR.	6-12-41																																									
AERO. CHANGE			<table border="1"> <tr> <td>NO.</td> <td>DESCRIPTION</td> <td>DATE</td> <td>BY</td> </tr> <tr> <td>1</td> <td>AERO. CHANGE</td> <td>6-12-41</td> <td></td> </tr> </table>									NO.	DESCRIPTION	DATE	BY	1	AERO. CHANGE	6-12-41																									
NO.	DESCRIPTION	DATE	BY																																								
1	AERO. CHANGE	6-12-41																																									
SNUBBER OIL TANK - LOWER ASSEMBLY.			SUPERSEDED BY SCALE FULL SIZE REF. DRAWING NO.																																								
SUPERSEDED BY SCALE FULL SIZE			SUPERSEDED 66604-4 66604-41																																								
NAVY YARD			NAVAL AIRCRAFT FACTORY PHILADELPHIA																																								

NOTES:

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
2. ALL DIMENSIONS ARE TO BE TAKEN TO THE CENTER UNLESS OTHERWISE SPECIFIED.
3. ALL DIMENSIONS ARE TO BE TAKEN TO THE CENTER UNLESS OTHERWISE SPECIFIED.
4. ALL DIMENSIONS ARE TO BE TAKEN TO THE CENTER UNLESS OTHERWISE SPECIFIED.
5. ALL DIMENSIONS ARE TO BE TAKEN TO THE CENTER UNLESS OTHERWISE SPECIFIED.
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8. ALL DIMENSIONS ARE TO BE TAKEN TO THE CENTER UNLESS OTHERWISE SPECIFIED.
9. ALL DIMENSIONS ARE TO BE TAKEN TO THE CENTER UNLESS OTHERWISE SPECIFIED.
10. ALL DIMENSIONS ARE TO BE TAKEN TO THE CENTER UNLESS OTHERWISE SPECIFIED.

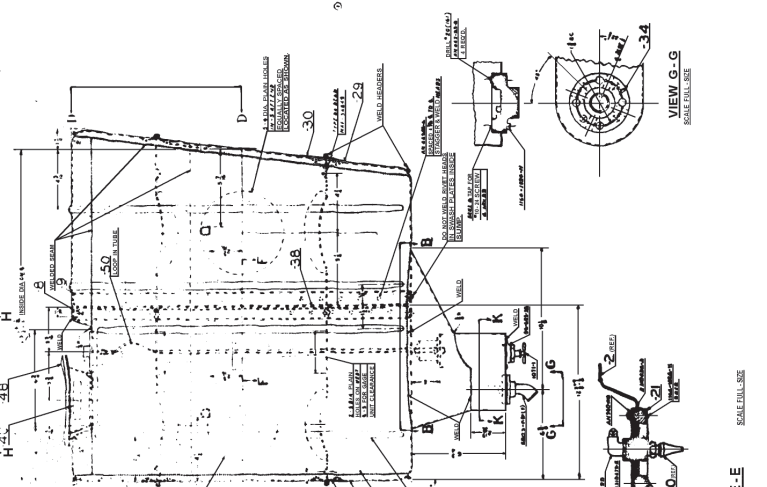
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VIEW D-D
SCALE 1/4" = 1"



SECTION A-A
SCALE 1/4" = 1"

NO.	REVISIONS	DATE	BY	CHKD.	APP'D.
1					
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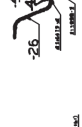
VIEW G-G
SCALE 1/4" = 1"



SECTION E-E
SCALE 1/4" = 1"



VIEW K-K
SCALE 1/4" = 1"



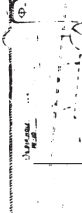
VIEW H-H
SCALE 1/4" = 1"



SECTION C-C
SCALE 1/4" = 1"



SECTION F-F
SCALE 1/4" = 1"



VIEW B-B
SCALE 1/4" = 1"
WITH HYDRAULIC GAUGE NOT OMITTED



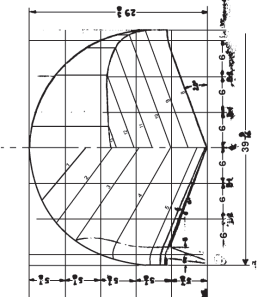
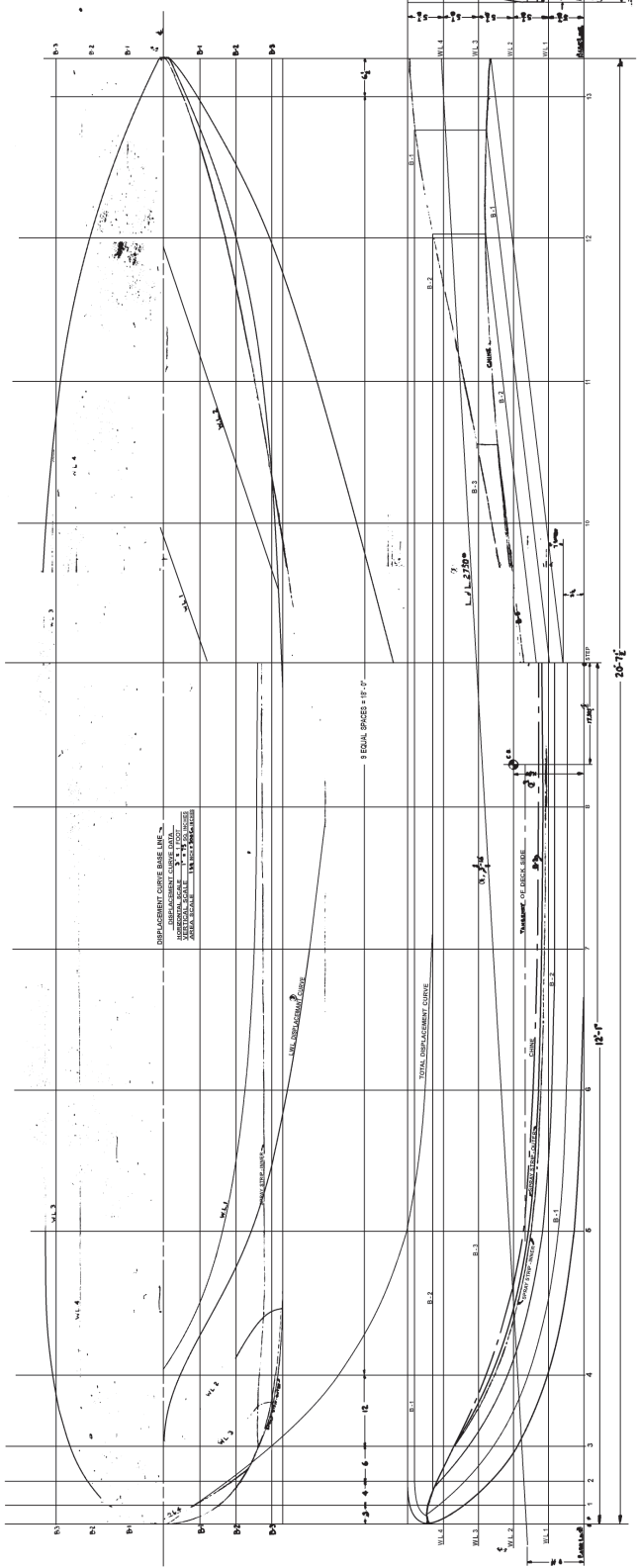
MOUNDED OFFSETS

HEIGHT	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
0.5	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
1.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
1.5	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
2.0	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
2.5	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
3.0	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
3.5	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
4.0	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
4.5	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
5.0	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
5.5	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
6.0	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
6.5	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
7.0	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
7.5	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
8.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
8.5	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
9.0	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
9.5	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
10.0	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60

OFFSETS GIVEN IN FEET, INCHES & FRACTIONS.
 NUMERICAL VALUES FOR THE VALUE OF M/A .

TOTAL SUBSIDED DISPLACEMENTS 84.4"
 N.W.L. Displacement = 23.0"
 RAILROAD INSTRUMENT = 30.4" \times 0

NO.	DESCRIPTION	DATE	BY	CHECKED	APPROVED
1	DESIGNED
2
3
4
5



18'-0"

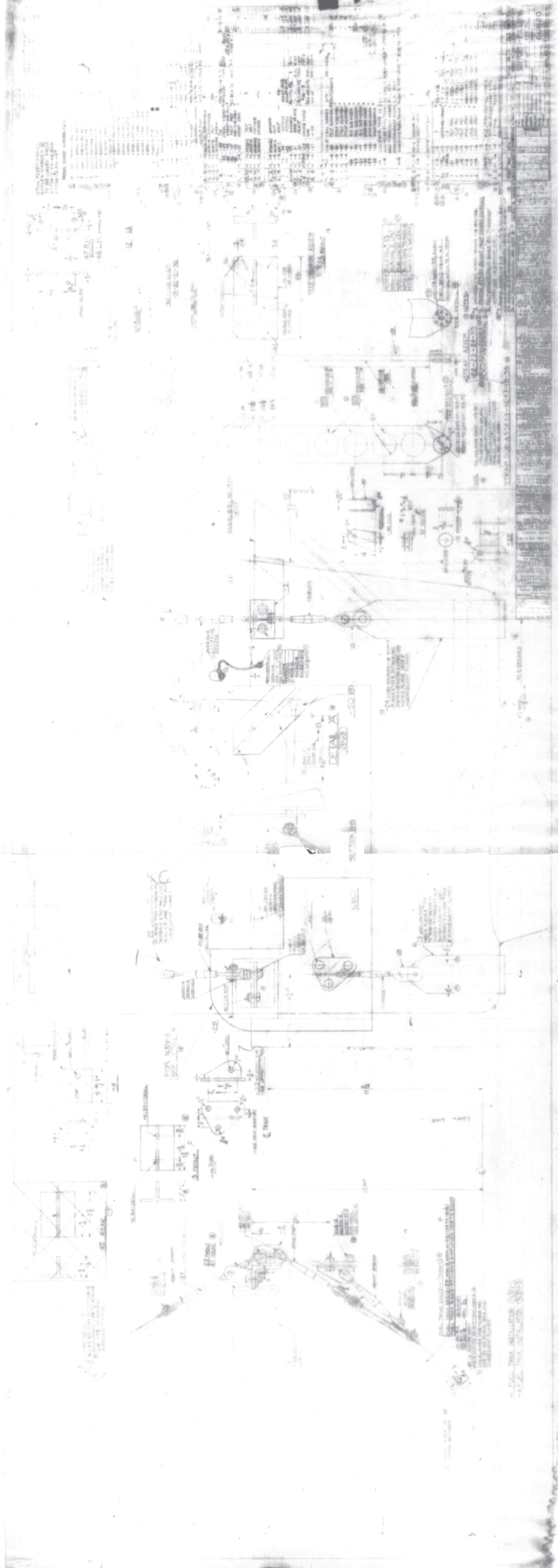
30'-0"

18'-0"

18'-0"

18'-0"

18'-0"

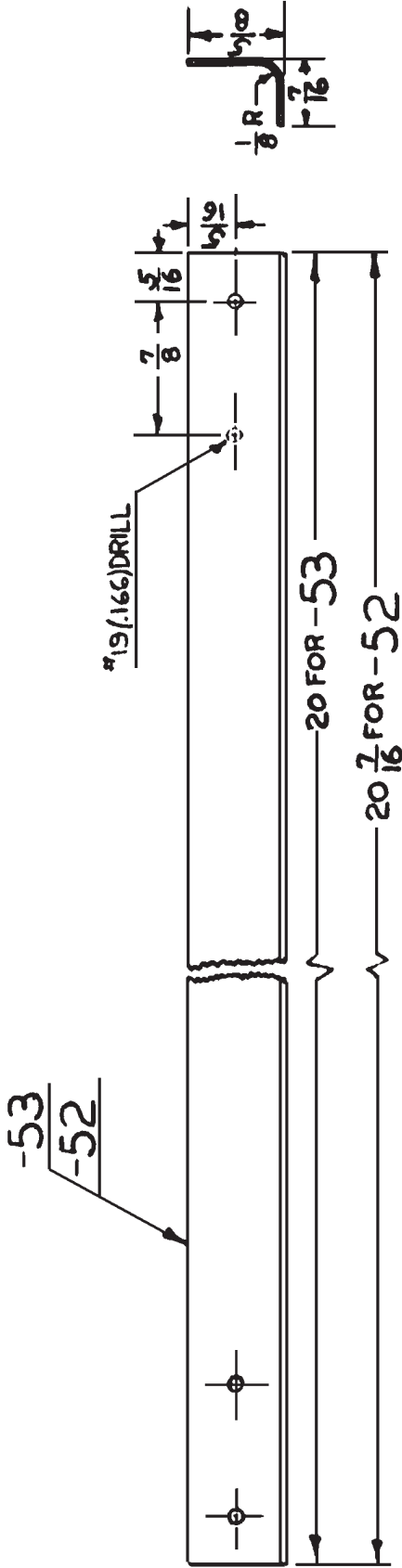


66620-53

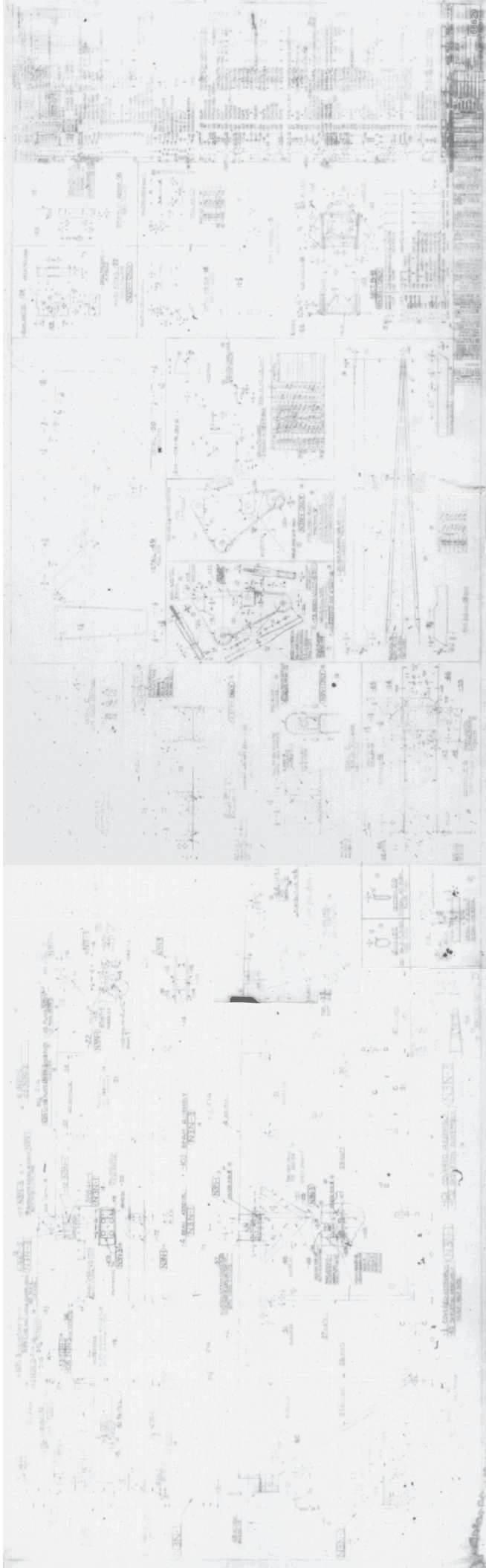
12/26/40

NOTES:-

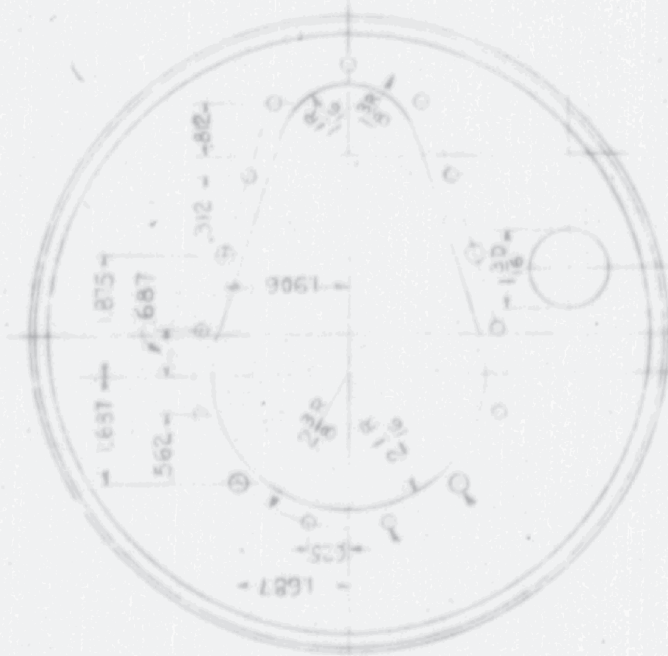
- I. TO BE USED ON PLANE 1908 AND SUBSEQUENT PLANES.



2	66620-4	66620-53	TIE	.032 x 1/8 x 20	ALUM ALLOY	47A10	SR 53	62000	PF-167	.07
2	66620-4	66620-52	TIE	.032 x 1/8 x 20 7/16	ALUM ALLOY	47A10	SR 53	62000	PF-K	.07
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT. ACT. WT.
N3N-3								#/SQ. IN.		
←-DESIGNED FOR				DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.						
ALTERATIONS				DRAWN TRACED CHECKED SUPERVISOR STRUCTURE CHIEF DRAFT. PROJ. ENG. ASST. CH'F. ENG. APPROVAL						
1-52 STOCK WAS 1-52 STOCK WAS 1-52 STOCK WAS				1-12-40 1-12-40 1-23-40 1-23-40 1-24-40 1-25-40 1-26-40						
TIE -- FUEL TANK				SUPPORT						
SUPERSEDED BY				SCALE						
SUPERSEDED BY				FULL SIZE						
NAVAL AIRCRAFT FACTORY PHILADELPHIA				REF. DRAWING NO. 66620-53						

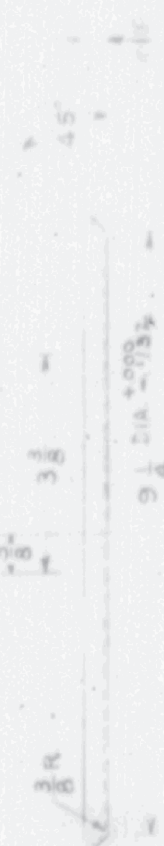


66633-2



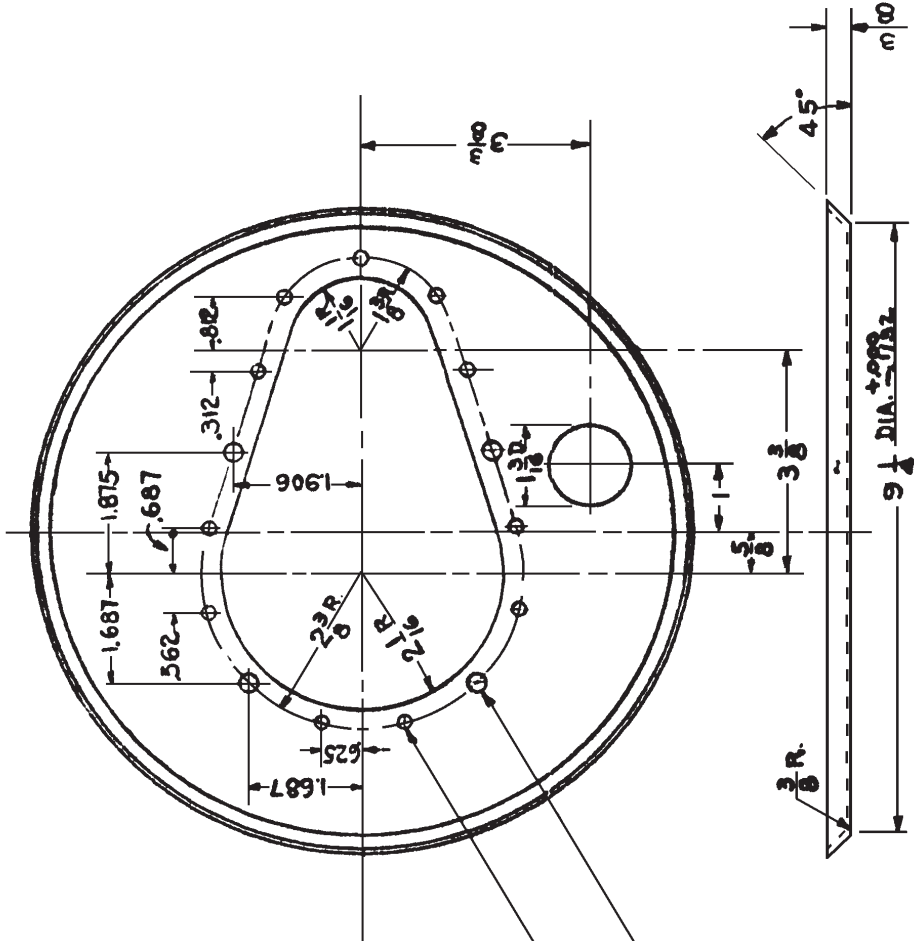
PUNCH 1.93 DIA
11 HOLES

PUNCH .45 DIA
4 HOLES



N3N-3 NO. 32
MODEL BU. AER. CHG. INCORP.

1	66633-2	66633-2	HEADER TOP	ALUM. AL.	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	
NO. REQ. ASSEM.		PART NO.		NAME		STOCK		MATERIAL		SPEC.		HT. T.		FINISH		EST. WT.		ACT. WT.	
N3N-3		66633-2		HEADER TOP		2.00		ALUM. AL.		2.00		2.00		2.00		2.00		2.00	
DIMENSIONS ARE IN INCHES. LIMITS $\pm .002$ DECIMALS $\pm .010$ ANGLES $\pm .5^\circ$ UNLESS OTHERWISE NOTED.																			
DESIGNED FOR																			
DRAWN					CHECKED					SUPERVISOR					STRUCTURE				
TRACED					BY					DATE					APPROVAL				
KAMMANN					J. R. P. 10/2/42					J. R. P. 10/2/42					J. R. P. 10/2/42				
7-24-42					7-24-42					7-24-42					7-24-42				
ADD'D BU. CHG.					BLOCK					7-24-42					7-24-42				
SUPERSEDED BY																			
SCALE										HALF SIZE									
REF. DRAWING NO.										66633-2									
HEADER										OIL TANK TOP									
NAVAL AIRCRAFT FACTORY PHILADELPHIA																			



PUNCH .183 DIA.
11 HOLES

PUNCH .25 DIA.
4 HOLES.

N3N-3 NO. 32.
MODEL BU. AER. CHG. INCOR.

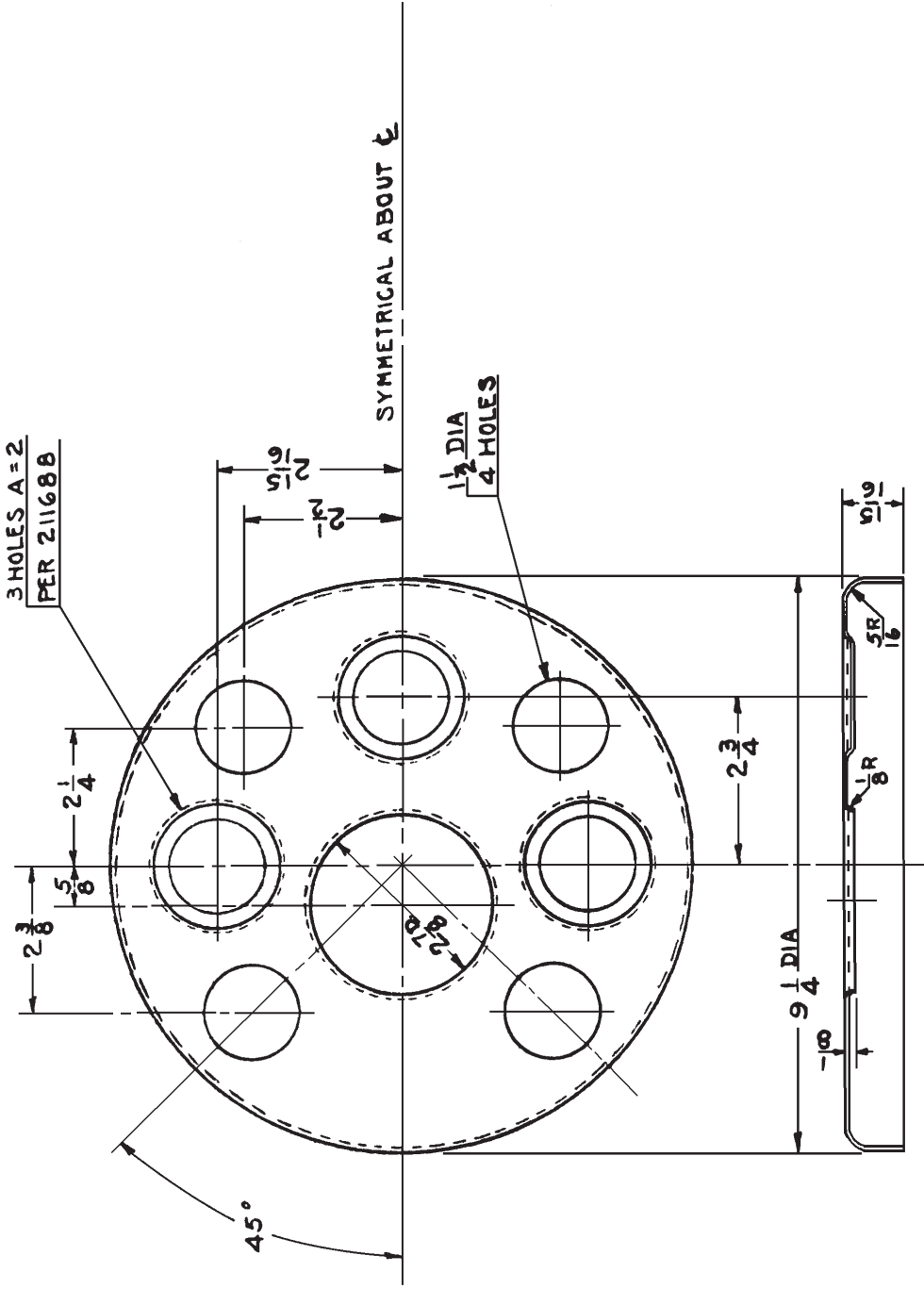
②

NO. REQ. ASSEM.	DESIGNED FOR	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T. #/SQ. IN.	U.T.S.	FINISH	EST. WT.	ACT. WT.	
1	66633-3		HEADING TOP	.064 x 10 DIA.	ALUM. AL.	TYPICAL						
			DIMENSIONS ARE IN INCHES. LIMITS ± 1/16 DECIMALS ± .010. ANGLES ± 1/2° UNLESS OTHERWISE NOTED.									
N3N-3												
			ALTERNATIONS									
			①	CARRACING								
			②	7-24-42								
				06-10 DIA. WAS 2								
				TYPE 1-1 WAS 2								
				6-2-42								
				7-1-49								
				7-2-49								
				8-3-49								
			ADDED BU. CHG. BLOCK.									
			DRAWN									
			CHECKED									
			SUPERVISOR									
			STRUCTURE									
			CHIEF DRAFT									
			PROJ. ENG.									
			TEST. CRY. ENG.									
			APPROVAL									
			SUPERSEDED BY									
			HEADING TOP									
			OIL TANK									
			SUPERSEDED BY									
			66633-3									
			REF. DRAWING NO.									
			NAVY YARD									
			NAVAL AIRCRAFT FACTORY									
			PHILADELPHIA									

①

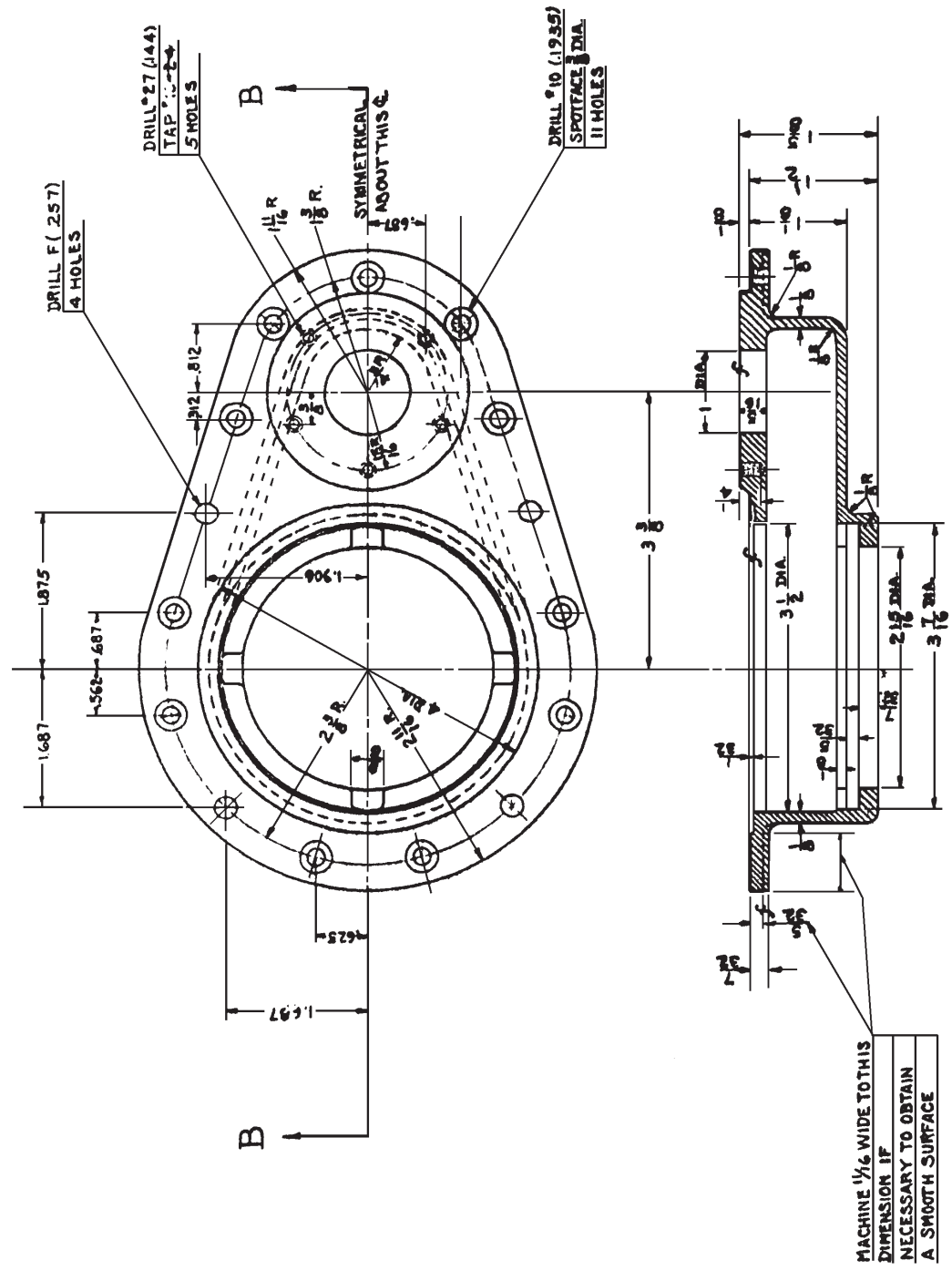
66633-4

Grady 7/11/40



1	66633-4	BAFFLE	ALUM AL	2 1/2 X 10 1/4 DIA.	STOCK	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
NO. REQ.	ASSEM.	PART NO.	MATERIAL	SPEC.	DIMENSIONS ARE IN INCHES. LIMITS ± 1/32 DECIMALS ± .010. ANGLES ± 1/2° UNLESS OTHERWISE NOTED.					
N3N-3										
DRAWN		W. L. A.		J. H. B.						
TRACED										
CHECKED										
SUPERVISOR		D. J. C.		6-26-40						
STRUCTURE										
CHIEF DRAFT.		D. J. C.		7-1-40						
PROJ. ENG.		L. J. C.		7-2-40						
ASST. CHIEF ENG.		H. K. P.		7-2-40						
APPROVAL										
ALTERNATIONS										
SUPERSEDED BY										
SCALE										
HALF SIZE										
REF. DRAWING NO.										
66633-4										
SUPERSEDED BY										
NAVAL AIRCRAFT FACTORY PHILADELPHIA										

BAFFLE
OIL TANK.



SECTION B-B

NO. REC. ASSEM.		NAME		STOCK		MATERIAL SPEC.		HT. T.		FINISH (EST. WT.)	
N3N-3		66633-6		PULLER CASTING		66633-6		66633-6		66633-6	
DIMENSIONS ARE IN INCHES. LIMITS: .03 DECIMALS, .010 ANGLES, .010 UNLESS NOTED, UNLESS OTHERWISE NOTED.											
DESIGNED FOR											
CHECKED BY											
SUPERVISOR											
STRUCTURE											
CHIEF DRAFTSMAN											
PROJ. ENG.											
INST. CRY. ENG.											
APPROVAL											
SUPERSEDED BY											
CASTING											
OIL TANK FILLER											
REF. DRAWING NO.											
66633-6											
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA											

10' ALL SURFACES SPECIFIED



66633-7

667
679
-562-887-



DRILL #25 (1495)
TAP 10-24
11 HOLES

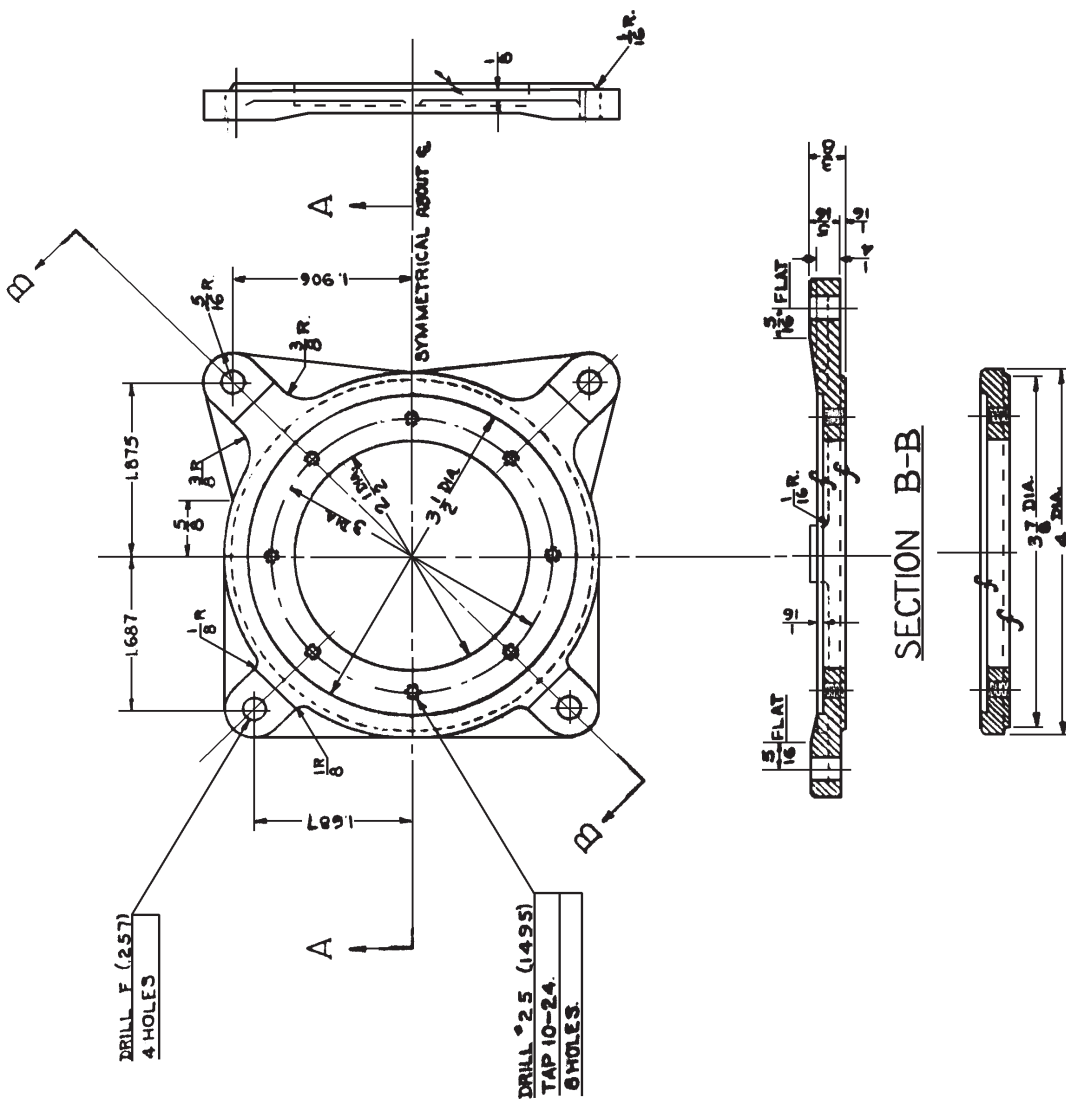
DRILL #7 (201)
TAP 1/4-20
4 HOLES

FINISH ALL SURFACES SPECIFIED

1 BUFF
2 SAND FINISH
3 SMOOTH MACH FINISH
4 SMOOTH MACH FINISH
5 SMOOTH MACH FINISH
6 SMOOTH MACH FINISH
7 REMOVE FINIS AND SPICES
8 FINISH ALL SURFACES BY OTHERWISE SPECIFIED

NO. REQ.	ASSEM.	PART NO.	NAME	CASTING	STOCK	MATERIAL	ALUM AL 66633-7	SA-6	FINISH	WT	ACT WT
1	66633-3966633-7		RING - INNER								
DIMENSIONS ARE IN INCHES. LIMITS ± .010, ANGLES ± .5°, UNLESS OTHERWISE NOTED.											
DRAWN: J. J. COOPER											
CHECKED: M. T. C.											
APPROVED: J. J. COOPER											
SUPERSEDED BY: NONE											
FULL SIZE: 66633-7											
NAVAL AIRCRAFT FACTORY PHILADELPHIA											

1-4-10



NO. REC.	1	66633-39	66633-10	CASTING COVER.	CASTING	STOCK	ALLOY	SA-8	FINISH	EST. WT.	ACT. WT.
ASSEM.	N3N-3						MATERIAL SPEC.				
DIMENSIONS ARE IN INCHES. LIMITS ± .001 DECIMALS ± .010 ANGLES ± .1° UNLESS OTHERWISE NOTED.											
DESIGNED FOR											
DRAWN											
CHECKED											
SUPERVISOR											
STRUCTURE											
CHIEF DRAFT											
PROJ. ENG.											
MKT. CONT. BUL.											
APPROVAL											
ALTERNATIONS											
SUPERSEDED BY											
SCALE											
FULL SIZE											
NAVY YARD PHILADELPHIA											

FINISH OF ALL SURFACES SPECIFIED.

CASTING
OIL TANK COVER

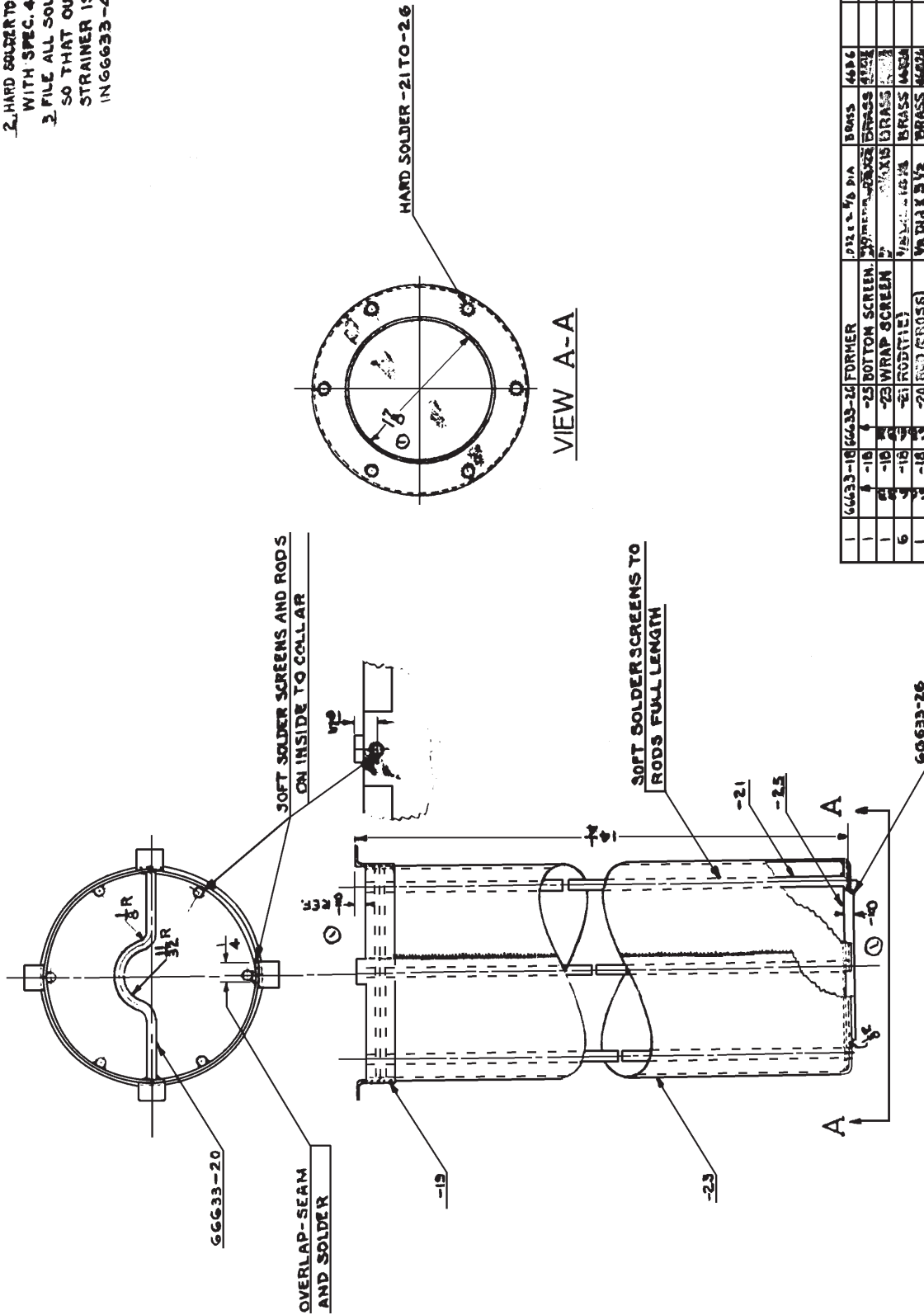
66633-10

NAVY YARD PHILADELPHIA

5-4. 7/1/42

NOTES:

1. SOFT SOLDER TO BE IN ACCORDANCE WITH SPEC. 46314, GR. C
2. HARD SOLDER TO BE IN ACCORDANCE WITH SPEC. 47813, GR. B.
3. FILE ALL SOLDER SMOOTH SO THAT OUTSIDE DIA. OF STRAINER IS A LOOSE FIT IN 66633-4.



VIEW A-A

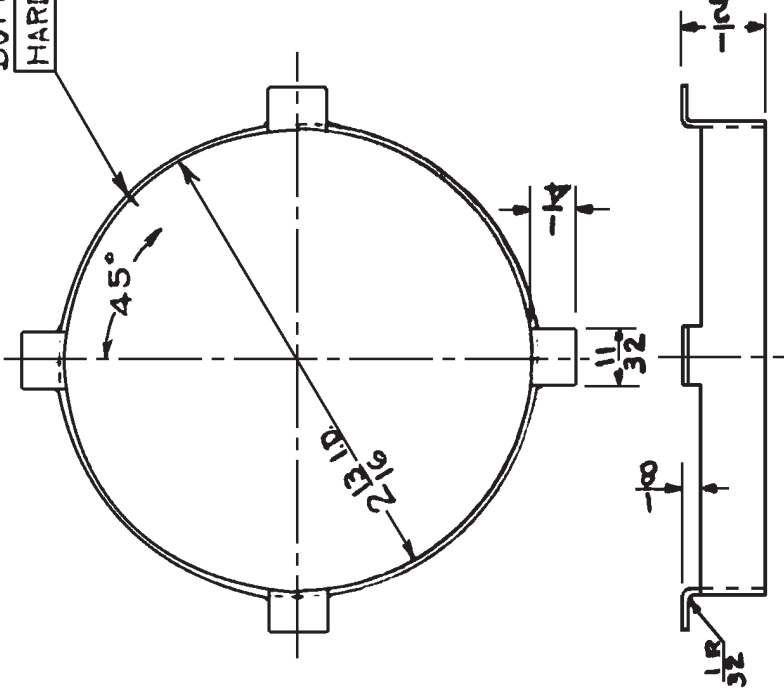
NO. REC.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
1	66633-18	66633-24	FORMER	1/2" x 1/8" DIA	BRASS	4816			
1	18	25	BOTTOM SCREEN	1/2" DIA	BRASS	4816			
1	18	23	WRAP SCREEN	1/2" DIA	BRASS	4816			
6	18	21	ROD (TIE)	1/2" DIA	BRASS	4816			
1	18	20	ROD (ROSS)	1/2" DIA	BRASS	4816			
1	18	19	COLLAR	1/2" DIA	BRASS	4816			
1	66633-33	66633-18	STRAINER ASSY						
DIMENSIONS ARE IN INCHES, LIMITS: ±.01 DECIMALS ±.010 ANGLES ±.5° UNLESS OTHERWISE NOTED.									
N3N-3 -- DESIGNED FOR:									
DRAWN: [Signature] CHECKED: [Signature] SUPERVISOR: [Signature] STRUCTURE: [Signature]									
APPROVAL: [Signature]									
ALTERNATIONS: 2-19-47 (2)									
STRAINER OIL TANK ASSEMBLY									
FULL SIZE									
SUPERSEDED BY: 66633-18									
NAVY YARD PHILADELPHIA									

66633-18

66633-19

66633-19

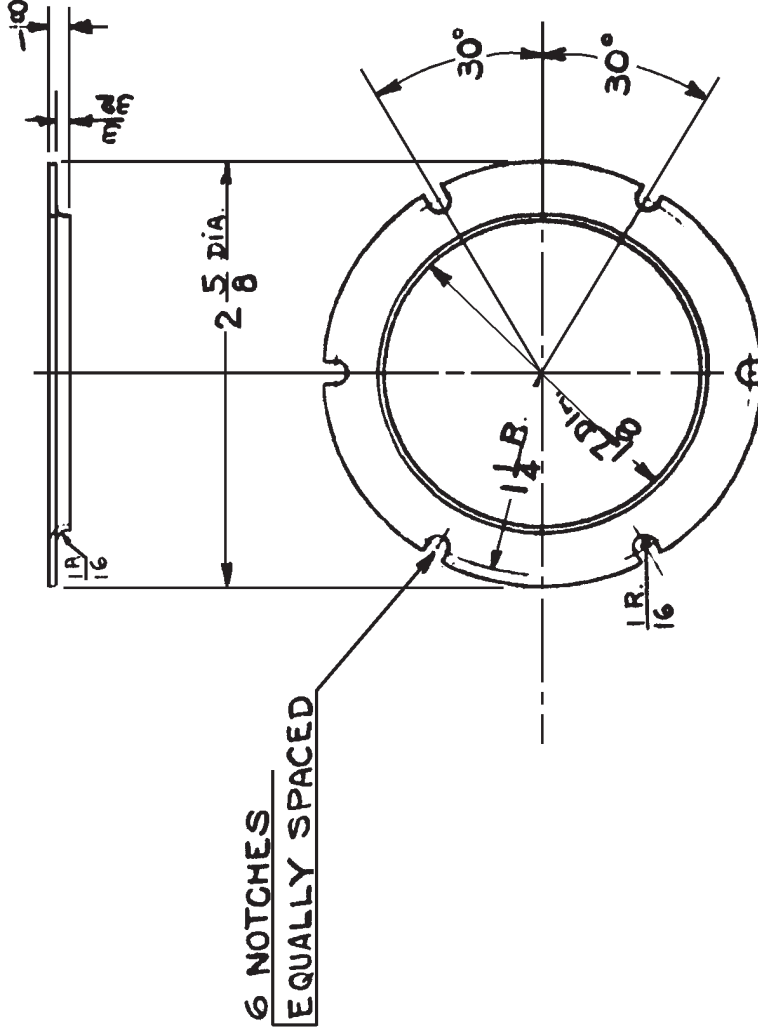
BUTT JOINT
HARD SOLDER



1	66633-19	66633-19	COLLAR.	3/4 X .040 X 9	BRASS	4086						
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	UT.S.	FINISH	EST. WT.	ACT. WT.	
NON-3								1/50 IN.				
DESIGNED FOR				DIMENSIONS ARE IN INCHES. LIMITS $\pm 1/32$ DECIMALS $\pm .010$. ANGLES $\pm 1/4^\circ$ UNLESS OTHERWISE NOTED.								
ALTERATIONS				DRAWN TRACED <i>AUBURN</i> 5-27-40 CHECKED <i>W. DEB</i> 6-26-40 SUPERVISOR <i>Boeing</i> 6-27-40 STRUCTURE CHIEF DRAFT. <i>Hub</i> 7-1-40 PROJ. ENG. <i>Hub</i> 7-2-40 ASST. CHIEF. ENG. <i>HX Binmill</i> 7-2-40 APPROVAL								
				SUPERSEDED BY								
				SCALE								
				FULL SIZE								
				REF. DRAWING NO. 66633-19								
				SUPERSEDED BY								
				NAVAL AIRCRAFT FACTORY PHILADELPHIA								

66633-26

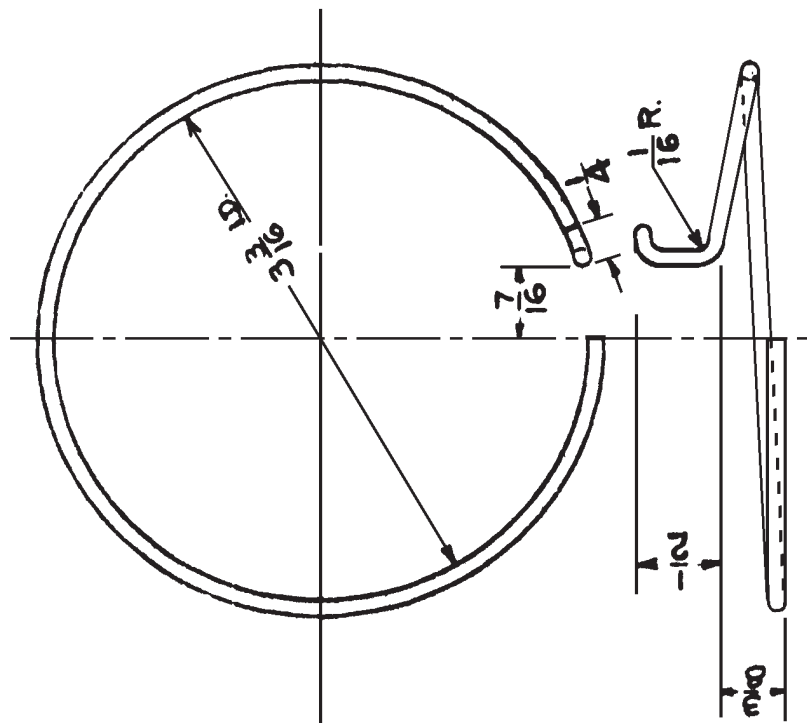
Rev. 7/11/40



1	66633-18	66633-26	FORMER	.032 X 2 5/8 DIA.	BRASS	4686							
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.		
DIMENSIONS ARE IN INCHES. LIMITS \pm .002 DECIMALS \pm .010. ANGLES \pm 1/2°. UNLESS OTHERWISE NOTED.													
DRAWN TRACED CHECKED SUPERVISOR STRUCTURE CHIEF DRAFT. PROJ. ENG. ASST. CH'F. ENG. APPROVAL			FORMER OIL TANK STRAINER SUPERSEDED BY SCALE FULL SIZE REF. DRAWING NO. 66633-26 NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA										
ALTERNATIONS 1-1-40 W. R. E. 6-16-40 7-1-40 7-2-40 7-2-40			APPROVAL 7-1-40 7-2-40 7-2-40										

66633-27

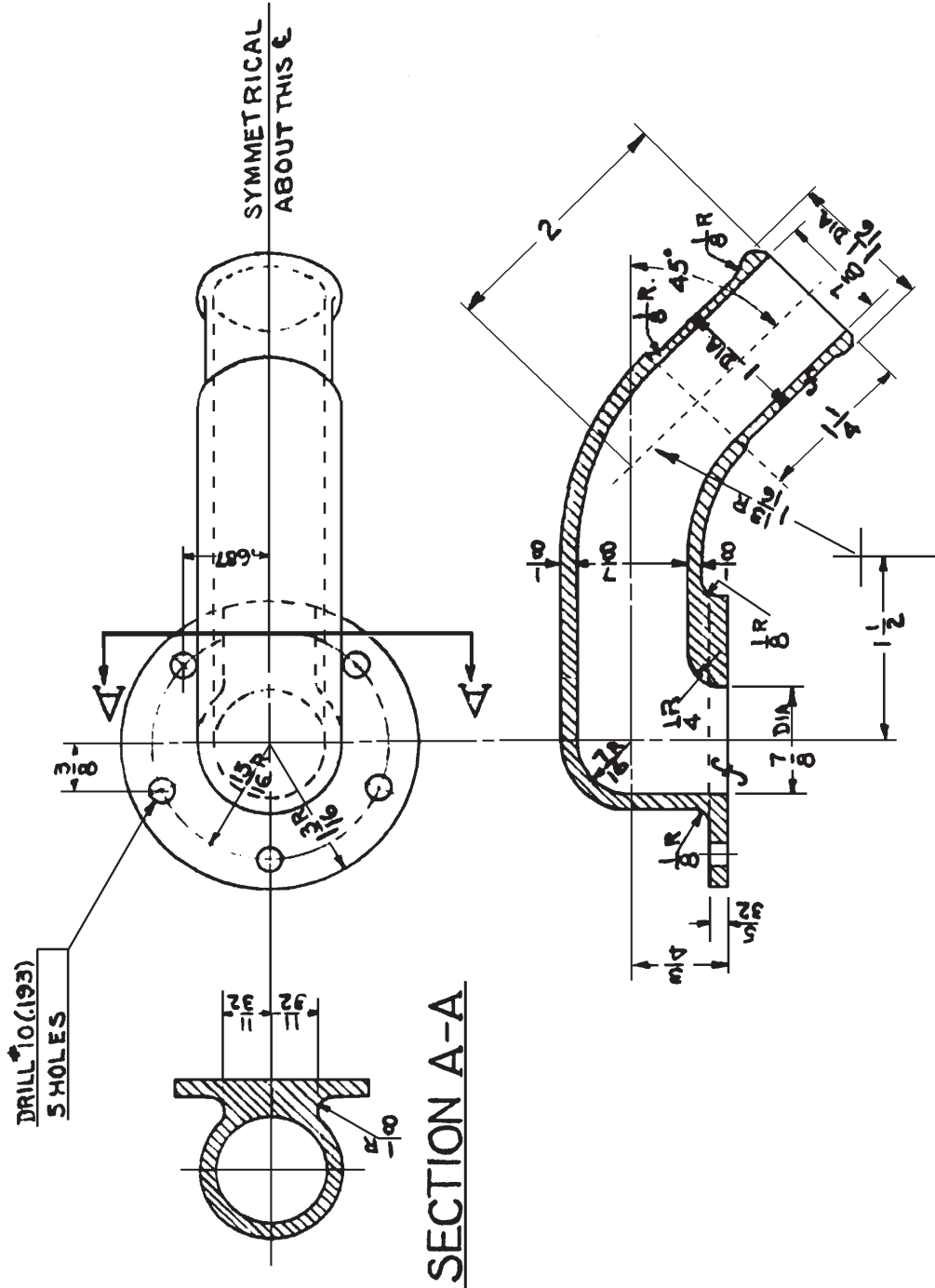
6.2 2/4/40



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	PHOSPHOR.	22W5	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
1	66633-39	66633-27	SPRING	001DIA.X 11	MATERIAL	SPEC.		$\frac{1}{32}$ IN.			
DIMENSIONS ARE IN INCHES. LIMITS $\pm 1/32$ DECIMALS $\pm .010$. ANGLES $\pm 1/2^\circ$, UNLESS OTHERWISE NOTED.											
DRAWN			W. B. B.	6-26-40	<p style="text-align: center;">SPRING OIL TANK FILLER</p> <p>SUPERSEDED BY</p> <p>SCALE</p> <p>66633-27</p> <p>REF. DRAWING NO.</p> <p>NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA</p>						
TRACED			W. B. B.	6-26-40							
CHECKED			W. B. B.	6-26-40							
SUPERVISOR			W. B. B.	6-26-40							
STRUCTURE			W. B. B.	6-26-40							
CHIEF DRAFT.			W. B. B.	7-1-40	SUPERSEDED BY						
PROJ. ENG.			W. B. B.	7-2-40	SCALE						
ASST. CH'F. ENG.			W. B. B.	7-3-40	FULL SIZE						
APPROVAL			W. B. B.	7-3-40	REF. DRAWING NO.						

66633-36

And. 7/1/40



SECTION A-A

FINISH OF ALL SURFACES
SPECIFIED.

Wm. Beck
Wm. Beck
Wm. Beck
Wm. Beck

1	66633-36	66633-36	RETURN-OIL	CASTING	ALUMAL. STAIN. SA 0				
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH
N3N-3					DECIMALS ± .010.	ANGLES ± 1/2°			UNLESS OTHERWISE NOTED.
DIMENSIONS ARE IN INCHES. LIMITS ± 1/32									
DRAWN TRACED <i>W. Beck</i>									
CHECKED <i>W. Beck</i>									
SUPERVISOR <i>Beck</i>									
STRUCTURE <i>6-27-40</i>									
CHIEF DRAFT. <i>W. Beck</i>									
PROJ. ENG. <i>W. Beck</i>									
ASST. CHF. ENG. <i>W. Beck</i>									
APPROVAL									
ALTERNATIONS									
SUPERSEDED BY									
SCALE									
FULL SIZE									
REF. DRAWING NO. 66633-36									
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA									

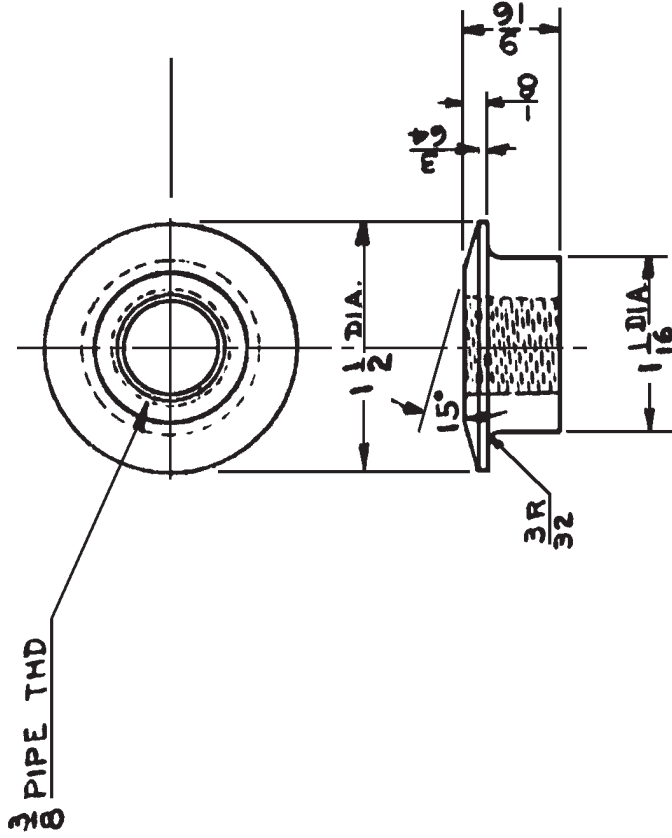
RETURN
OIL TANK-OIL

66633-36

66633-37

NOTES:-

- 1. ALL PIPE THREADS AS PER SPEC. M-262



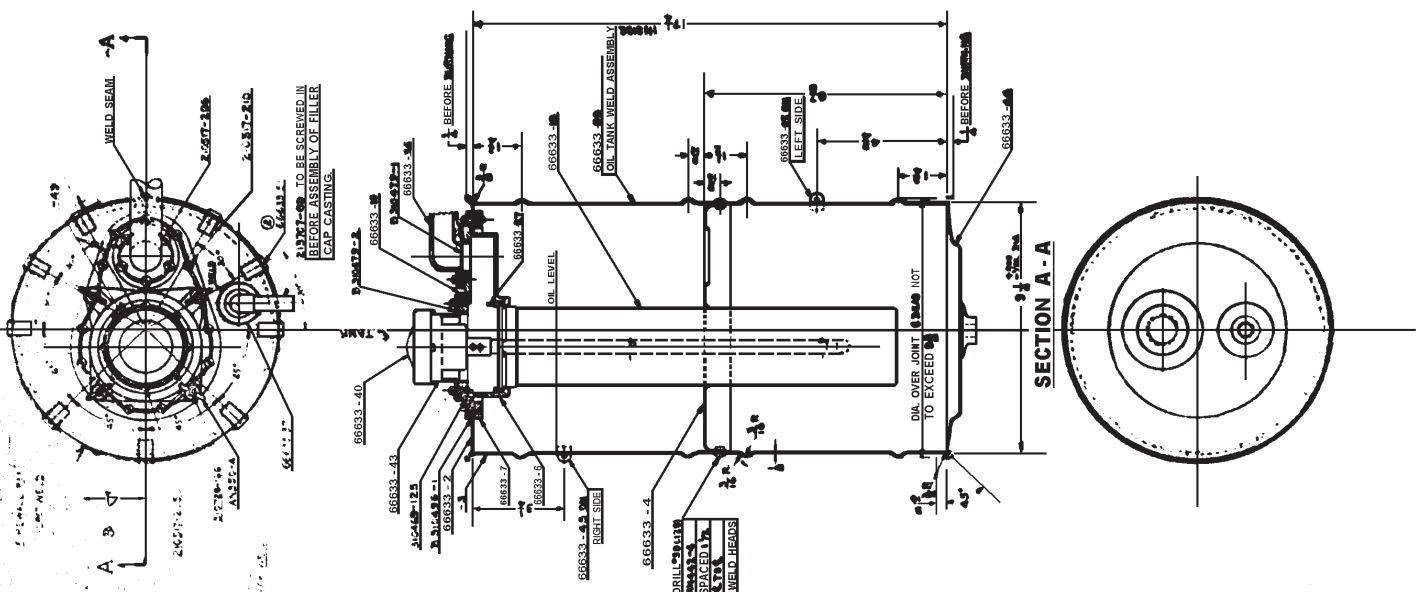
1	66633-39	66633-37	BOSS VENT	7/16 X 1/2 DIA.	ALUM. 46A6	SR-19				
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	U.T.S. #/SQ. IN.	FINISH	EST. WT.	ACT. WT.
N3N-3			DIMENSIONS ARE IN INCHES. LIMITS ± 1/32 DECIMALS ± 0.10 ANGLES ± 1/2° UNLESS OTHERWISE NOTED.				BOSS			
			DRAWN TRACED	W. REF	6-26-40	OIL TANK VENT				
			CHECKED	Supervisor	6-27-40	SUPERSEDED BY				
			SUPERVISOR	Structure		SCALE				
			CHIEF DRAFT.	7-1-40	FULL SIZE					
			PROJ. ENG.	7-8-40	REF. DRAWING NO.					
			ASST. CHIEF. ENG.	H.K. Banfill	7-2-40	66633-37				
			APPROVAL		NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA					

7/10/40

2. 3. 7. 10

NOTES:

1. TANK TO BE ANODIZED AFTER WELDING FOR SPEC. 300-9.
2. COAT ALL THREADS PER SPEC. PF-1-20.
3. INTERIOR OF TANK TO BE CLEANED PER SPEC. 300-10.
4. 1.5 GAL. SUPP. SPACE.
5. TEST TO 80 P.S.I. PRESSURE.
6. EXTERIOR OF TANK TO BE GIVEN A LIGHT COATING OF RUST PREVENTATIVE COMPOUND PER SPEC. 300-11-20.
7. ALL PATTERN SURFACES TO BE PER SPEC. 300-2.



②
 3131-3 NO. 31
 MODEL BU. AIR. COM. INCORP.

③

QTY	DESCRIPTION	UNIT	REMARKS
1	66633-40	FLY	
1	66633-43	FLY	
1	66633-125	FLY	
1	66633-1	FLY	
1	66633-2	FLY	
1	66633-7	FLY	
1	66633-6	FLY	
1	66633-8	FLY	
1	66633-9	FLY	
1	66633-4	FLY	
1	66633-10	FLY	
1	66633-11	FLY	
1	66633-12	FLY	
1	66633-13	FLY	
1	66633-14	FLY	
1	66633-15	FLY	
1	66633-16	FLY	
1	66633-17	FLY	
1	66633-18	FLY	
1	66633-19	FLY	
1	66633-20	FLY	
1	66633-21	FLY	
1	66633-22	FLY	
1	66633-23	FLY	
1	66633-24	FLY	
1	66633-25	FLY	
1	66633-26	FLY	
1	66633-27	FLY	
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1	66633-35	FLY	
1	66633-36	FLY	
1	66633-37	FLY	
1	66633-38	FLY	
1	66633-39	FLY	
1	66633-41	FLY	
1	66633-42	FLY	
1	66633-44	FLY	

④

REV.	DATE	BY	CHKD.	DESCRIPTION
1				

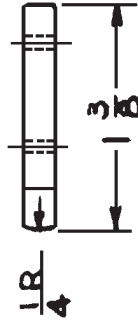
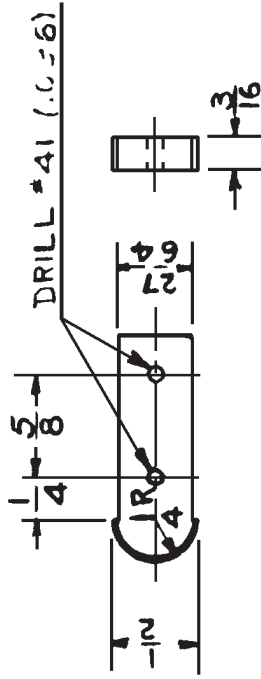
MATERIAL SPEC. INT. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

TANK - OIL ASSEMBLY
 66633-39
 MANUFACTURED BY AIRCRAFT FACTORY PHILADELPHIA

66633-39

66633-41

Order 7/10/40



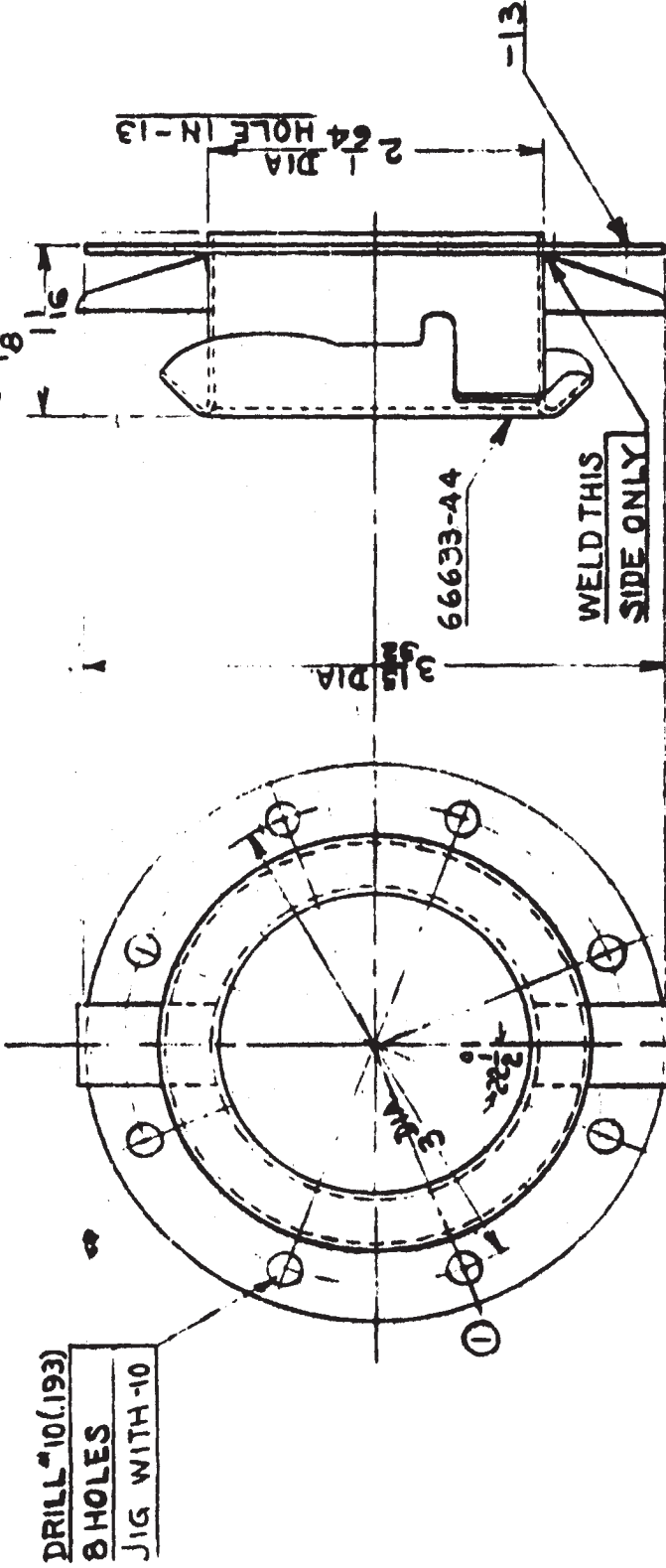
-1	66633-40	66633-41	BLOCK-TIP	3/16 X 1/2 X 1 1/2	PHENOLIC	TP 5	(TYPE	FBM)					
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.		
DIMENSIONS ARE IN INCHES, LIMITS $\pm 1/32$ DECIMALS $\pm .010$, ANGLES $\pm 1/2^\circ$, UNLESS OTHERWISE NOTED.													
N3N-3													
--DESIGNED FOR													
ALTERNATIONS													
DRAWN TRACED <i>AUBrey</i> 6-5-40 CHECKED <i>W. DEB</i> 6-26-40 SUPERVISOR <i>D. Smith</i> 6-27-40 STRUCTURE CHIEF DRAFT. <i>White</i> 7-1-40 PROJ. ENG. <i>Shah</i> 7-2-40 ASST. CHIEF. ENG. <i>H.P. Smith</i> 7-2-40 APPROVAL													
BLOCK-TIP SOUNDING ROD													
SUPERSEDED BY													
SCALE FULL SIZE													
REF. DRAWING NO. 66633-41													
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA													

66633-43

Rev 7/11/43

NOTES:

1. 1025-4 IS A PART OF ASSEMBLY 1025-5

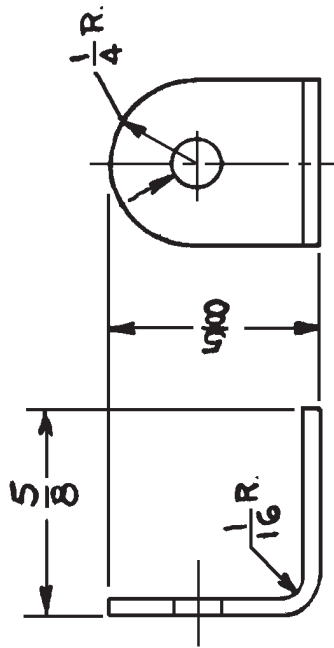


1	66633-43	66633-44	NECK ASSEMBLY (MAKE FROM 1025-4)	STEEL	47S14														
1	66633-43		PLATE	049X3 1/2 X 3 1/2															
1	66633-43		NECK-FILLER																
NO. REQ.	APPROVAL	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.	DESIGNED FOR DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.								
											<p>DESIGNED FOR DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.</p> <p>NO. 10 HOLES SPACED 3/4" ON CENTER.</p> <p>NO. 2 HOLES SPACED 1 1/2" ON CENTER.</p> <p>NO. 2 HOLES SPACED 1 1/2" ON CENTER.</p> <p>NO. 2 HOLES SPACED 1 1/2" ON CENTER.</p>								
											<p>ALTERNATIONS</p> <p>NO. 10 HOLES SPACED 3/4" ON CENTER.</p> <p>NO. 2 HOLES SPACED 1 1/2" ON CENTER.</p> <p>NO. 2 HOLES SPACED 1 1/2" ON CENTER.</p> <p>NO. 2 HOLES SPACED 1 1/2" ON CENTER.</p>								
											<p>APPROVAL</p> <p>7-1-40</p> <p>7-2-40</p> <p>7-2-40</p>								
											<p>NECK-FILLER ASSEMBLY</p> <p>66633-43</p> <p>NAVY YARD</p>								

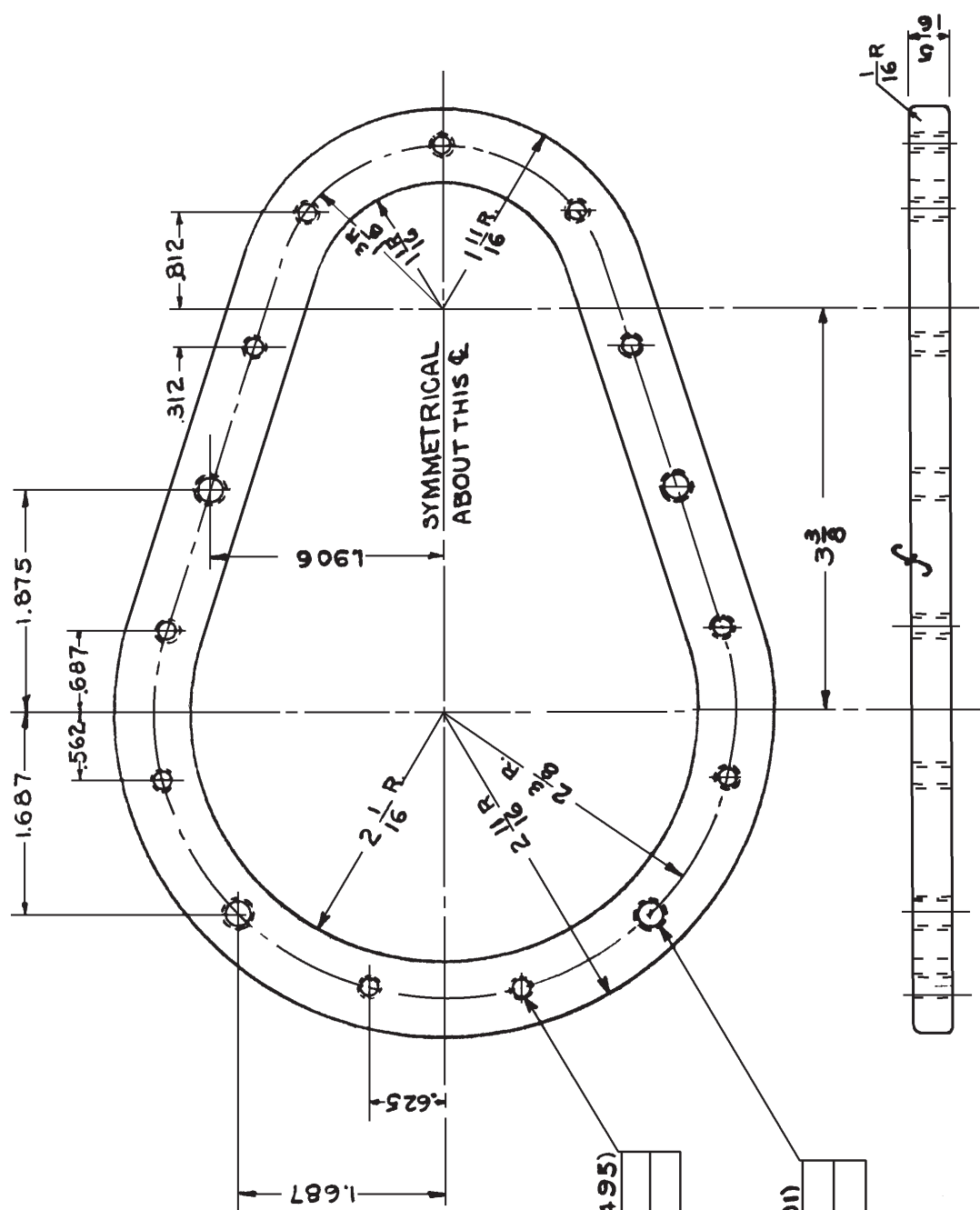
66633-45

Handwritten notes or initials at the top left of the page.

DRILL # 28 (141)



2	66633-50	66633-45	TAB - BONDING	.040 X 1/4 X 1/2	ALUM. AL 6144 1/2 H	U.T.F. F/SQ. IN.	FINISH	EST. WT. ACT. WT
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.		
← DESIGNED FOR			DIMENSIONS ARE IN INCHES. LIMITS ± 1/32 DECIMALS ± .010. ANGLES ± 1/4°. UNLESS OTHERWISE NOTED.					
N3N-3			DRAWN TRACED <i>AK Brown</i> 6-3-40 CHECKED <i>U. BEA</i> 6-26-40 SUPERVISOR <i>Davis</i> 6-27-40 STRUCTURE CHIEF DRAFT. <i>White</i> 7-1-40 PROJ. ENG. <i>Baker</i> 7-3-40 ASST. CH'F. ENG. <i>AK Penick</i> 7-2-40 APPROVAL					
			SUPERSEDED BY SCALE DOUBLE SIZE REF. DRAWING NO.					
			TAB BONDING SUPERSEDES 66633-45					
			NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA					



DRILL #25 (.1495)
TAP 10-24
11 HOLES.

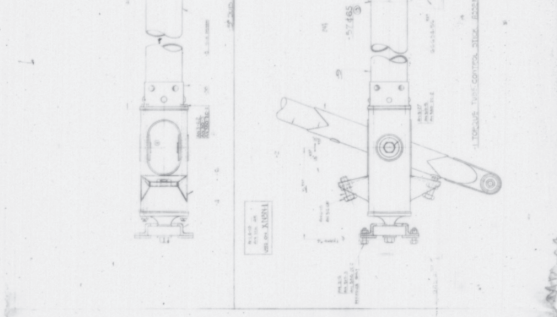
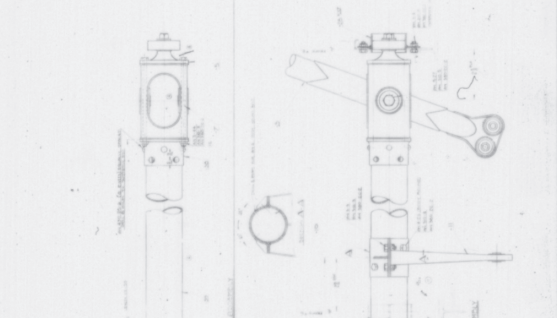
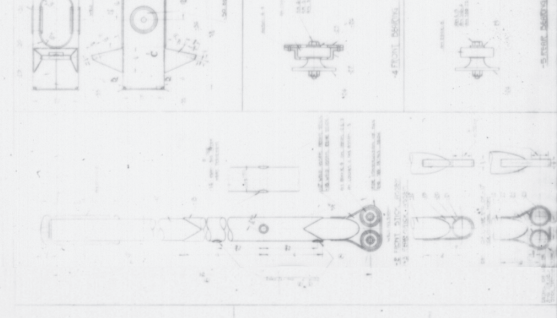
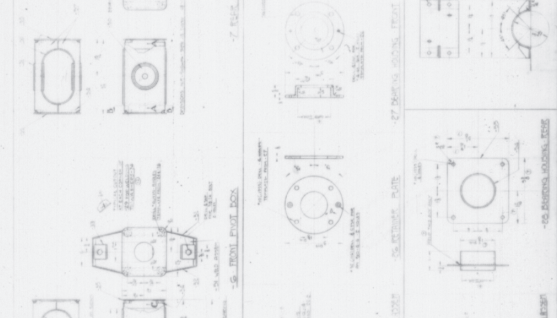
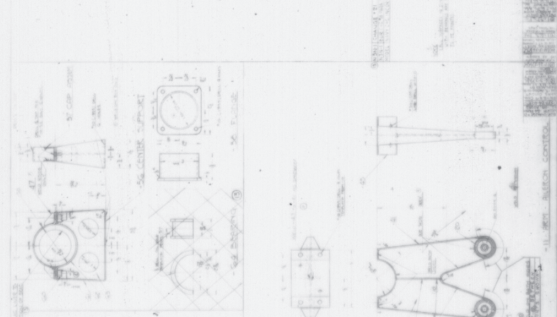
DRILL #7 (.201)
TAP 1/4-20
4 HOLES

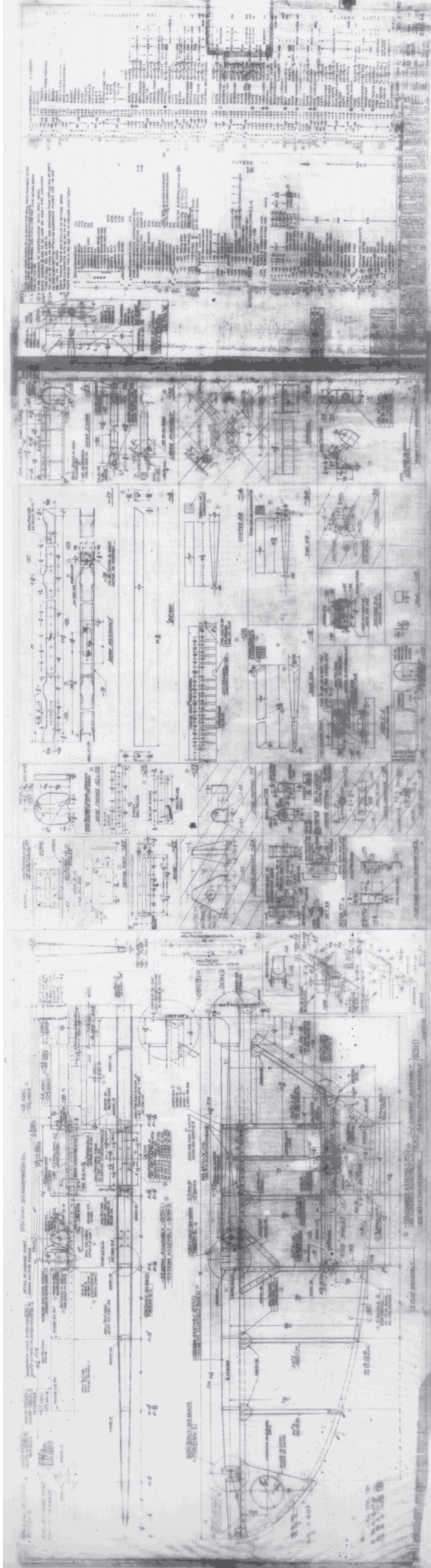
NO. REQ.		ASSEM.		PART NO.		RING - INNER.		CASTING		STOCK		ALUM. AL.		SA-B		FINISH EST. WT. ACT. WT.	
1		66633-38		66633-7		RING - INNER.		CASTING		STOCK		ALUM. AL.		SA-B		FINISH EST. WT. ACT. WT.	
DIMENSIONS ARE IN INCHES. LIMITS \pm 1/32 DECIMALS \pm . 010. ANGLES \pm 1/4°. UNLESS OTHERWISE NOTED.																	
DESIGNED FOR																	
DRAWN TRACED																	
CHECKED																	
SUPERVISOR																	
STRUCTURE																	
CHIEF DRAFT.																	
PROJ. ENG.																	
INST. CRT. ENG.																	
APPROVAL																	
ALTERNATIONS																	
SUPERSEDED BY																	
SCALE																	
FULL SIZE																	
REF. DRAWING NO.																	
RING OIL TANK-INNER.																	
66633-																	
NAVAL AIRCRAFT FACTORY PHILADELPHIA																	

FINISH $\text{\textcircled{a}}$ ALL SURFACES SPECIFIED $\text{\textcircled{f}}$

- $\text{\textcircled{a}}$ CLEAR
- $\text{\textcircled{b}}$ POLISH
- $\text{\textcircled{c}}$ BRASS BRUSH
- $\text{\textcircled{d}}$ BRASS BRUSH AND BLAST
- $\text{\textcircled{e}}$ BRASS BRUSH AND BLAST
- $\text{\textcircled{f}}$ FINISH ALL SURFACES UNLESS OTHERWISE SPECIFIED

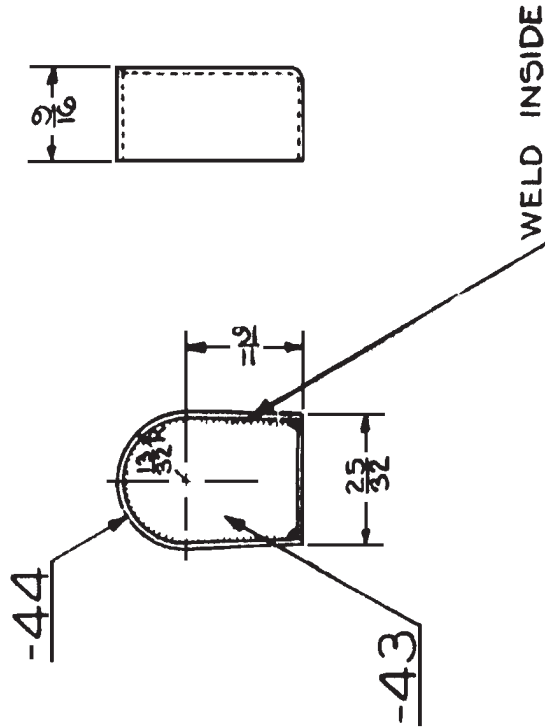
NO.	DESCRIPTION	QTY	UNIT	REMARKS
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66644-7

2.2. 5/10/40.

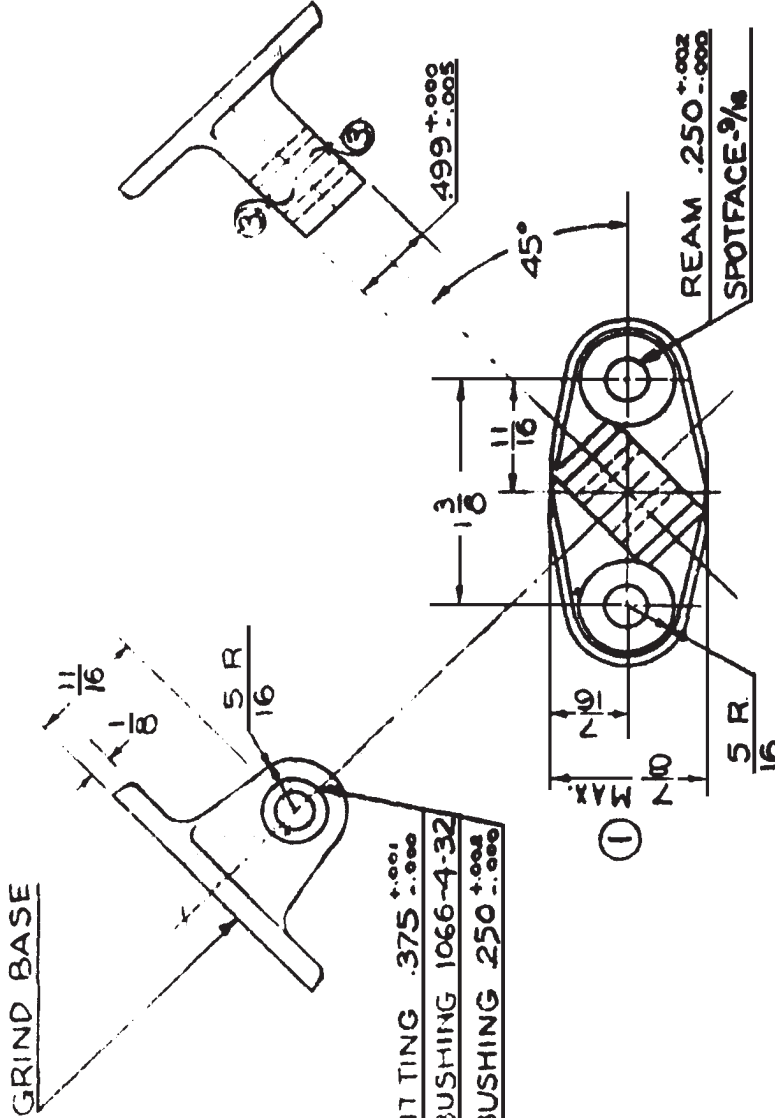


1	66644-7	66644-44	PLATE	032 x 9/16 x 2 3/4	ALUM. 47A-11	---	---	---	
1	66644-7	66644-43	PLATE	032 x 3/4 x 1 1/16	ALUM. 47A-11	---	---	---	
3	66644-2	66644-7	NOSE FORMER	---	---	SR-53	34,000	PHI#1.008	
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	MT. T.	EST. WT. ACT. WT.	
N3N-5				DESIGNED FOR DIMENSIONS ARE IN INCHES, LIMITS ± 1/4 DECIMALS ± .010 ANGLES ± 1/2 UNLESS OTHERWISE NOTED.					
ALTERNATIONS				DRAWN	JOBSON	11-27-39	FORMER		
				CHECKED	BY	5-1-40	ELEVATOR TAB		
				SUPERVISOR	BY	5-3-46	NOSE		
				STRUCTURE	BY	5-3-46	WELD ASSEMBLY		
				CHIEF DRAFT	BY	5-3-46	SUPERSEDED BY 66644-7-11-39		
				PROJ. ENG.	BY	5-3-46	SCALE		
				ASST. CFT. ENG.	BY	5-6-90	FULL SIZE		
				APPROVAL	BY	5-6-90	REF. DRAWING NO.		
				NAVAL AIRCRAFT FACTORY				66644-7	
				Navy Yard				PHILADELPHIA	

66644-13

Code 1010/39.

- ① FINISH
- ②
- ③
- ④



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
1	66644-3	1066-4-32	BUSSING	STD.					
1	66644-13	66644-51	FITTING	66644-51F		PHS-10-N	95000		
1	66644-2	66644-13	FITTING ASSEMBLY				PT-1-22	.1	

DESIGNED FOR DIMENSIONS ARE IN INCHES. LETTERS \pm $\frac{1}{64}$ DECIMALS \pm .010, ANGLES \pm $\frac{1}{2}^\circ$, UNLESS OTHERWISE NOTED.

ALTERATIONS

EXCESSIVE DRAFT

REMOVED

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
1	66644-13	66644-51	FITTING	66644-51F		PHS-10-N	95000		
1	66644-2	66644-13	FITTING ASSEMBLY				PT-1-22	.1	

FITTING - ELEVATOR TAB

CONTROL - ASSEMBLY

SUPPLEMENTED BY

SCALE

FULL SIZE

REF. DRAWING

66644-13

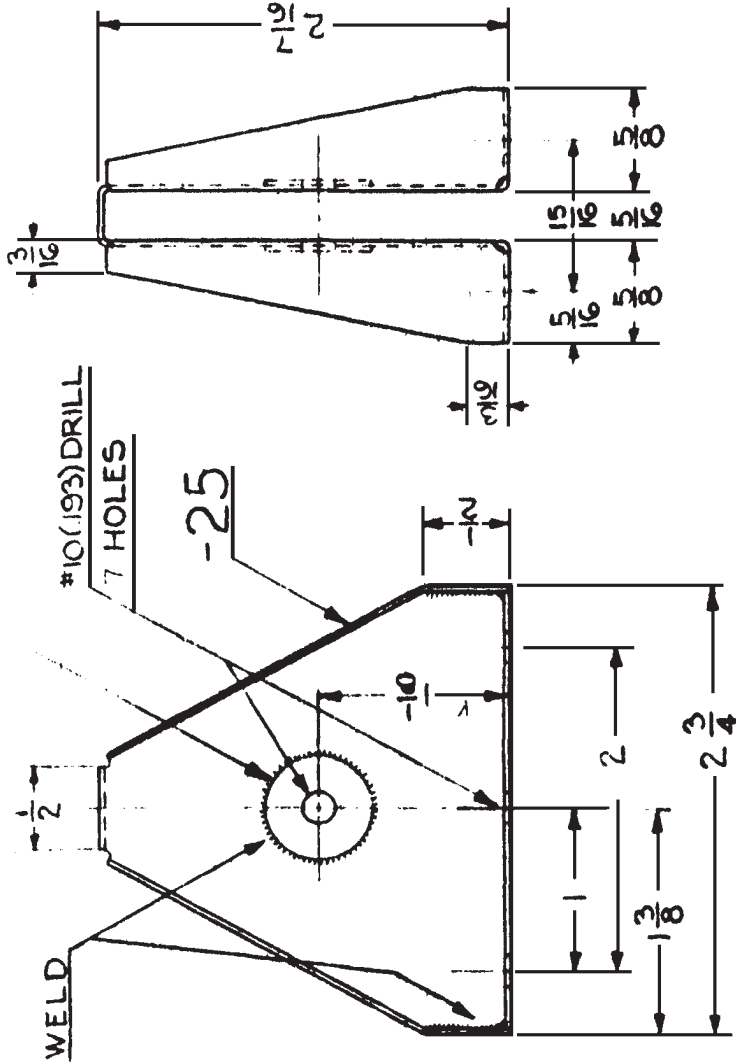
NAVY YARD NAVAL AIRCRAFT FABRI... RESEARCH

66644-24

NOTE

JIG DRILL ALL HOLES

22114-49



2	66644-24	22114-49	WASHER	STD.	STEEL	475-14					
1	66644-24	66644-25	PLATE	.035 x 4 3/8 x 6 1/2							
1	66644-24	66644-24	WELD ASSEM.								
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	MT. T.	FINISH	EST. WT.	ACT. WT.	
<p>N3N-3 -- DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010 ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.</p>											
			DESIGNED BY	JOBSON	1-8-40						
			CHECKED	W.D. BARNETT	5-1-40						
			SUPERVISOR	S.L. BARNETT	5-3-40						
			STRUCTURE	BARNETT	5-3-40						
			CHIEF DRAFT	BARNETT	5-3-40						
			PROJ. ENG.	BARNETT	5-3-40						
			TEST. CITY. ENG.	BARNETT	5-6-40						
			APPROVAL								
<p>ALTERNATIONS</p>											
<p>BRACKET -- ELEVATOR TAB PULLEY -- DETAIL</p>											
<p>SCALE: FULL SIZE</p>											
<p>66644-24</p>											
<p>NAVAL AIRCRAFT FACTORY PHILADELPHIA</p>											

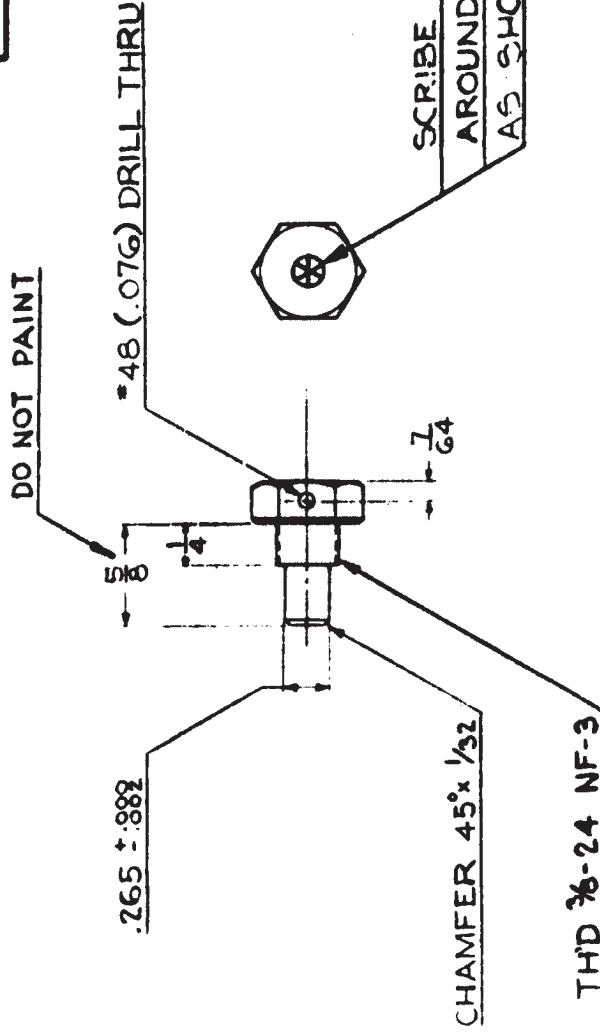
6.2.5/10/40

66644-31

66644-31

NOTE:-

① USED ON AIRPLANES # 1759 TO # 1808 & 1908 TO # 2007.

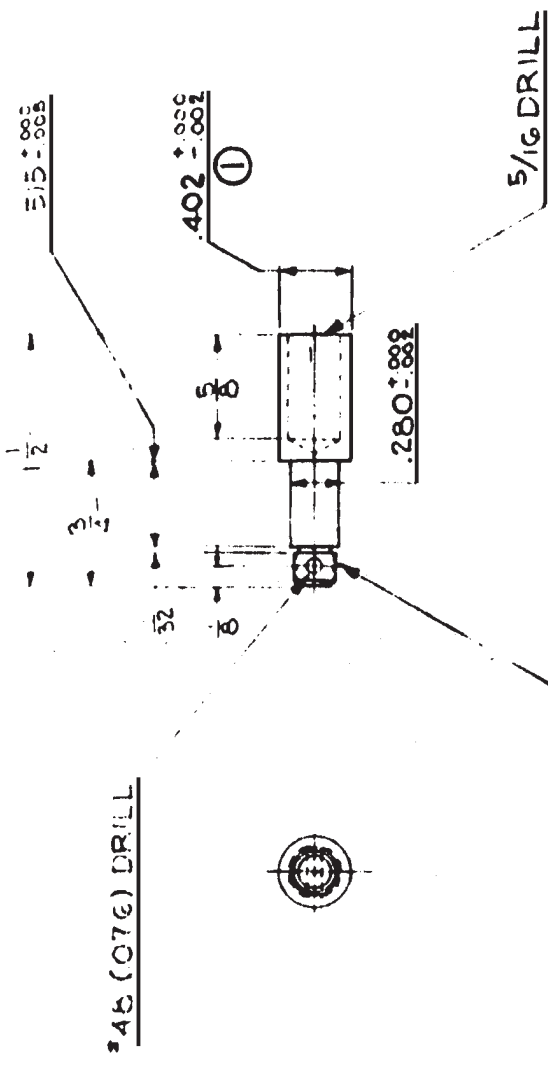


NO. REQ.	AGREM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. W/ACT. WT.															
1	66644-101	66644-31	HINGE BOLT	ANG-10	—	—	—	—	PFI-94															
<p>DESIGNED FOR DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.</p> <p>NOTED TO BE USED IN PLACE OF 1908 TO 2007.</p> <p>ALTERNATIONS</p> <table border="1"> <tr><th>REV.</th><th>DESCRIPTION</th></tr> <tr><td>1</td><td>10-4-40</td></tr> <tr><td>2</td><td>11-6-39</td></tr> <tr><td>3</td><td>12-9-40</td></tr> <tr><td>4</td><td>1-3-41</td></tr> <tr><td>5</td><td>5-6-50</td></tr> </table>										REV.	DESCRIPTION	1	10-4-40	2	11-6-39	3	12-9-40	4	1-3-41	5	5-6-50			
REV.	DESCRIPTION																							
1	10-4-40																							
2	11-6-39																							
3	12-9-40																							
4	1-3-41																							
5	5-6-50																							
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DESIGNED BY	SCALE	FULL SIZE																						
CHECKED	BY	BY																						
SUPERVISOR	DATE	DATE																						
STRUCTURE	APPROVAL	APPROVAL																						
COMP. BRANCH	NAVY STANDARD DRAWING																							
<p>BOLT — HINGE ELEVATOR TAB — DETAIL</p>																								

Ind. Sp. 1/40.

66644-36

- ① MEET
- ② REAM FINISH
- ③ SQUARE END FINISH
- ④ FINISH ALL SURFACES UNLESS OTHERWISE SPECIFIED

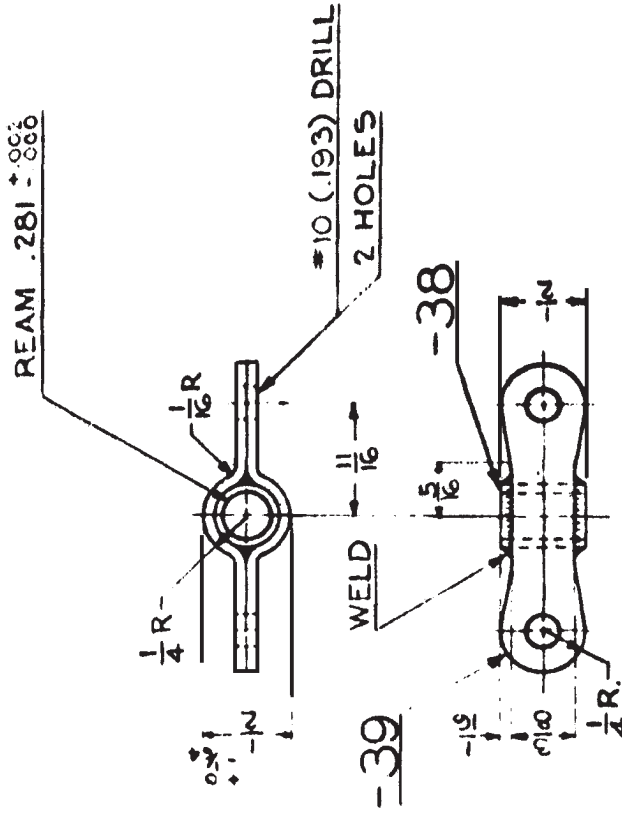


CHAMFER $45^\circ \times \frac{1}{32}$
 , THREAD $\frac{1}{4}-28$ NF-3

1	66644-36	66644-36	FITTING	$\frac{1}{2}$ DIA. x $1\frac{1}{2}$	STEEL	16-5-33 S.A.	—	—	—
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	MT. T.	FINISH	EST. WT. ACT. WT.
DESIGNED FOR			DIMENSIONS ARE IN INCHES. LIMITS $\pm \frac{1}{64}$ DECIMALS $\pm .010$ ANGLES $\pm \frac{1}{4}^\circ$ UNLESS OTHERWISE NOTED.						
ALTERATIONS			DRAWN	JOE SON	11-16-39	END — ELEVATOR TAB			
			CHECKED	W. J. Lamb	5-1-40	LEVER CONTROL — DETAIL			
			SUPERVISOR	L. C. Rap	5-3-40	SUPERSEDED BY 66644-36-ALTZ			
			STRUCTURE	Revised	5-3-40	SCALE			
			CHIEF DRAFT	2/2/40	5-2-40	FULL SIZE			
			PROJ. ENG.	W. J. Lamb	5-3-40	NAVY YARD			
			ASST. CHIEF DRAFTER	Bennally	5-6-40	NAVAL AIRCRAFT FACTORY			
			APPROVAL			PHILADELPHIA			

66644-37

66644-37

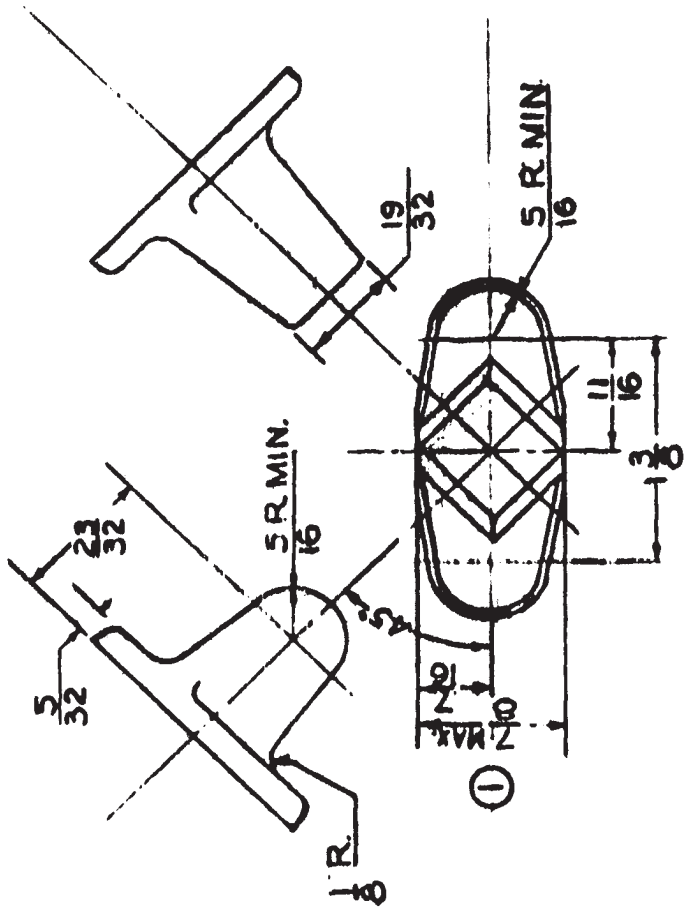


2	66644-37	66644-39	PLATE	.065 x 1/2 x 2 1/8	STEEL 47-S-14	---	---	---
1	66644-37	66644-38	TUBE	3/8 OD x .058 x 1/2	STEEL 44-T-18	---	---	---
1	66644-32	66644-37	CABLE CONNECTOR	---	---	PH5-DN	95,000	PF1-94 .05
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	MT. T.	U.S. FINISH EST. WT. ACT. WT.
N3N-3			DESIGNED FOR DIMENSIONS ARE IN INCHES, LIMITS ± 1/64 DECIMALS ± .010, ANGLES ± 1/8°, UNLESS OTHERWISE NOTED.					
			DRAWN	JOBSON	11-8-39	CONNECTOR - ELEVATOR TAB		
			CHECKED	167	5-1-40	CABLE CONTROL - WELD ASSEMBLY		
			SUPERVISOR	L. J. K. R.	5-3-40	SUPERSEDED BY 66644-37		
			STRUCTURE	Leucowitz	5/3/40	SCALE		
			CHIEF DRAFT	W. L. D.	5-3-90	FULL SIZE		
			PROJ. ENG.	H. W. B.	5-3-40	NAVY YARD NAVAL AIRCRAFT FACTORY INCLUDE		
			ASST. CRT. ENR.	Barnaby	5-6-40	66644-37		
			APPROVAL					

W

66644-51F

L.2. 10/10/39.



FORGING NOTES-

1. ALL DRAFT ANGLES 7°
2. BREAK ALL SHARP EDGES $\frac{1}{16}$
3. GRAIN TO RUN IN DIRECTION OF LUG.
4. TOLERANCE $\pm \frac{1}{64}, \pm 1^\circ$.

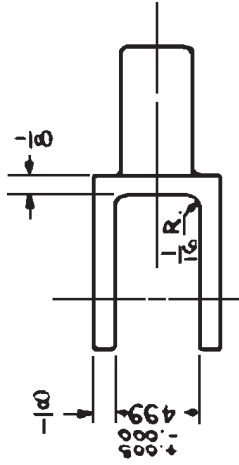
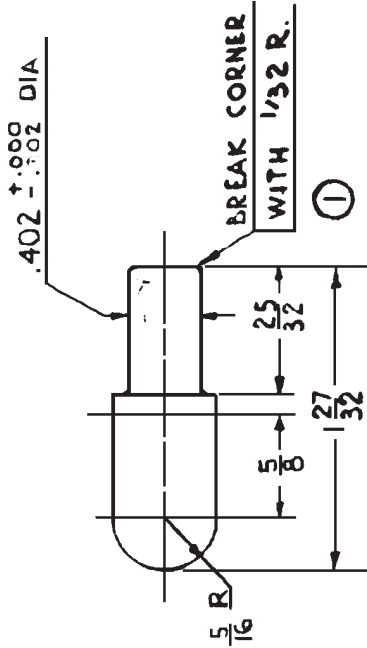
1	66644-51	66644-51F	FORGING	NAME ✓	STOCK	STEEL 46323																											
NO. REQ.	ASSEM.	PART NO.				MATERIAL	SPEC.	HT. T.	FINISH																								
N3N3						46323																											
DESIGNED FOR DIRECTIONS ARE IN INCHES, UNLESS OTHERWISE NOTED.																																	
<table border="1"> <tr> <td>DRAWN TOGGLE</td> <td>SIMPSON</td> <td>10-4-37</td> </tr> <tr> <td>CHECKED</td> <td>C. H. H. H.</td> <td>10-2-37</td> </tr> <tr> <td>SUPERVISOR</td> <td></td> <td>10-1-37</td> </tr> <tr> <td>STRUCTURE</td> <td></td> <td>11-7-39</td> </tr> <tr> <td>CHIEF DRAFT</td> <td></td> <td>10/10/39</td> </tr> <tr> <td>PROJ. ENG.</td> <td></td> <td>10/10/39</td> </tr> <tr> <td>ASST. CRT. ENG.</td> <td></td> <td>10/10/39</td> </tr> <tr> <td>APPROVAL</td> <td></td> <td>10/10/39</td> </tr> </table>										DRAWN TOGGLE	SIMPSON	10-4-37	CHECKED	C. H. H. H.	10-2-37	SUPERVISOR		10-1-37	STRUCTURE		11-7-39	CHIEF DRAFT		10/10/39	PROJ. ENG.		10/10/39	ASST. CRT. ENG.		10/10/39	APPROVAL		10/10/39
DRAWN TOGGLE	SIMPSON	10-4-37																															
CHECKED	C. H. H. H.	10-2-37																															
SUPERVISOR		10-1-37																															
STRUCTURE		11-7-39																															
CHIEF DRAFT		10/10/39																															
PROJ. ENG.		10/10/39																															
ASST. CRT. ENG.		10/10/39																															
APPROVAL		10/10/39																															
<table border="1"> <tr> <td>EXCESSIVE DRAFT REMOVED</td> <td>ALTERNATIONS</td> </tr> <tr> <td></td> <td>① 5-6-40</td> </tr> </table>										EXCESSIVE DRAFT REMOVED	ALTERNATIONS		① 5-6-40																				
EXCESSIVE DRAFT REMOVED	ALTERNATIONS																																
	① 5-6-40																																
<table border="1"> <tr> <td>SUPERSEDED BY</td> <td>SCALE</td> <td>FULL SIZE</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>										SUPERSEDED BY	SCALE	FULL SIZE																					
SUPERSEDED BY	SCALE	FULL SIZE																															
<table border="1"> <tr> <td>NAVY YARD</td> <td>NAVAL ENGINEERING</td> </tr> <tr> <td></td> <td></td> </tr> </table>										NAVY YARD	NAVAL ENGINEERING																						
NAVY YARD	NAVAL ENGINEERING																																

FITTING - ELEVATOR TAB
CONTROL - FORGING

66644-64

Rev. 5/10/40

- ① **NOTE**
- ② **FINISH**
- ③ **STOCK**
- ④ **STOCK**
- ⑤ **STOCK**
- ⑥ **STOCK**

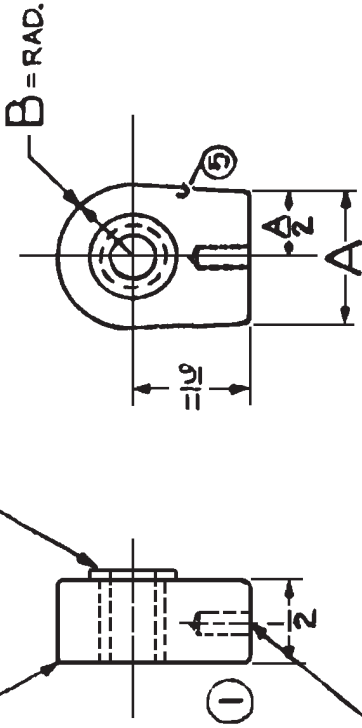


1	66644-63	66644-64	FORK	5/8 x 3/4 x 2 1/16	STEEL	46-5-23 G.R.A.	—	—	—	—
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT. ACT. WT.
N2N-3			DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.							
DESIGNED FOR			JOBSON 11-14-39							
DRAWN			Checked							
TRACED			Supervisor							
CHECKED			Structure							
SUPERVISOR			Chief Draft.							
STRUCTURE			Proj. Eng.							
CHIEF DRAFT.			Asst. Chf. Eng.							
PROJ. ENG.			Approval							
ASST. CHF. ENG.			ALTERATIONS							
APPROVAL			10-28-40							
			TYPED AND SIGNED							
			202 WAS 11-14-39							
			SUPERSEDED BY 66644-64							
			SCALE FULL SIZE							
			66644-64							
			NAVAL AIRCRAFT FACTORY PHILADELPHIA							

66644-134
-136

BREAK ALL SHARP
CORNERS WITH $\frac{1}{64}R$.

REAM $.3750 \pm .0004$ FOR
A310807-9 PRESS FIT



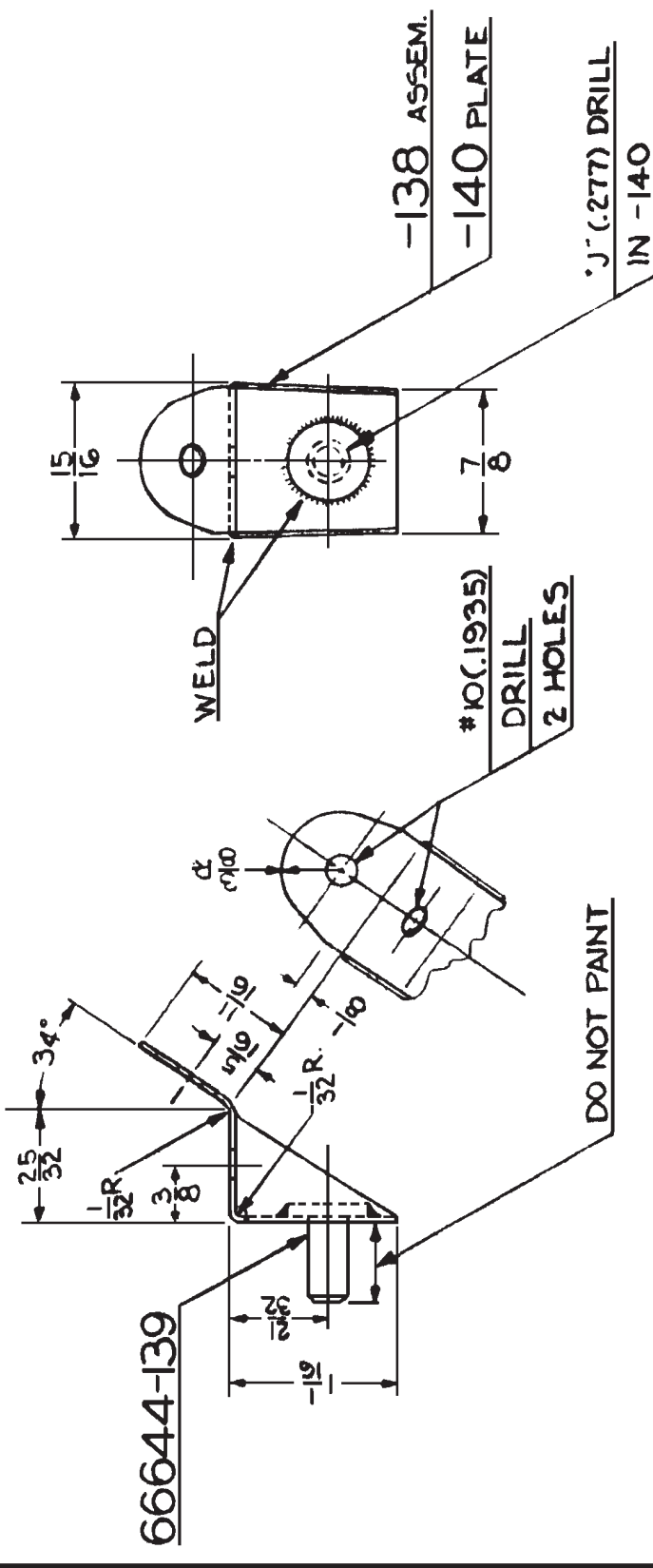
ASSEM. NO.	PART NO.	A	B
-134	-135	$1\frac{3}{16}$	$7/16$
-136	-137	$2\frac{3}{32}$	$3/8$

31 (.120) DIA. $5/16$ DEEP

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S. #/SQ.IN.	FINISH	EST. WT.	ACT. WT.
1	66644-134	A310807-9	BUSHING	—	—	—	—	—	—	—	—
1	66644-136	66644-137	BEARING	CASTING	AL. ALLOY	46A1	SA-8	29000	—	—	—
1	66644-2	66644-136	BEARING-OUT BOARD	ASSEMBLY	—	—	—	—	PFI-44	—	—
1	66644-134	66644-135	BEARING	CASTING	AL. ALLOY	46A1	SA-8	29000	—	—	—
1	66644-2	66644-134	BEARING-IN BOARD	ASSEMBLY	—	—	—	—	PFI-44	—	—
<p>← DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS $\pm \frac{1}{16}$ DECIMALS $\pm .010$, ANGLES $\pm \frac{1}{2}^\circ$, UNLESS OTHERWISE NOTED.</p>											
N3N-3		DRAWN		JOSSON	10-3-40	BEARING		—		ELEVATOR TAB	
		CHECKED		1	10-4-40	HINGE		—		ASSEMBLY	
		SUPERVISOR			10-9-40	SUPERSEDED BY				SUPERSEDES	
		STRUCTURE				SCALE				66644-134	
		CHIEF DRAFT.				FULL SIZE				REF. DRWG NO.	
		PROJ. ENG.				NAVY YARD				NAVAL AIRCRAFT FACTORY	
		ASST. CH'F. ENG.				PHILADELPHIA					
		APPROVAL									

66644-138

6.2. 10/17/40.



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
1	66644-138	66644-140	PLATE	.035 x 2 1/2 x 2 9/16	STEEL	47514	—	—	—	—	—
1	66644-138	66644-139	PIN	—	—	—	—	—	—	—	—
1	66644-101	66644-138	HINGE - INBD-ASSEM	—	—	—	PH5-10N	90000	PF19A	—	—

N3N-3 ← DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.

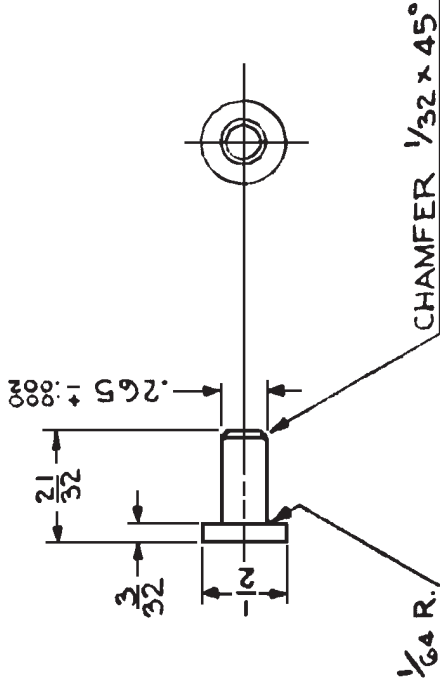
DRAWN		JOHNSON	10-3-40
TRACED		—	—
CHECKED		<i>R. Lambert</i>	10-4-40
SUPERVISOR		<i>L. D. Keel</i>	10-9-40
STRUCTURE		—	—
AIR BRVT.		<i>Amberg</i>	10-11-40
PROJ. ENG.		<i>Amberg</i>	10-10-40
LEST. CRT. ENG.		<i>Amberg</i>	10-10-40
APPROVAL		—	—

HINGE — ELEVATOR TAB
INBOARD — ASSEMBLY

SUPERSEDED BY
SCALE
FULL SIZE
REF. DWG. NO. **66644-138**
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

66644-139

- ① GRIND FINISH (SEE SPEC.)
- ② REMOVE FINISH FROM SURFACE
- ③ FINISH ALL SURFACES
- ④ REMOVE FINISH FROM SURFACE
- ⑤ FINISH ALL SURFACES



NO. REQ.	ASSEM.	66644-139	66644-139	PIN, HINGE	NAME	STOCK	1/2 DIA. x 1/16	STEEL	46523 GRA	HT. T.	1/16 SQ. IN.	FINISH	EST. WT.	ACT. WT.
N3N-3		DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS $\pm \frac{1}{64}$ DECIMALS $\pm .010$ ANGLES $\pm \frac{1}{2}^\circ$ UNLESS OTHERWISE NOTED.										
		DRAWN TRACED		JOBSON 10-3-40										
		CHECKED		B. J. Lambert 10-4-40										
		SUPERVISOR		E. J. White 10-9-40										
		STRUCTURE												
		CHIEF DRAFT.		Agard 10-11-40										
		PROJ. ENG.		H. J. ... 10-15-40										
		ASST. CH'F. ENG.		L. ... 10-10-40										
		APPROVAL												
		ALTERNATIONS												
		SUPERSEDED BY		ELEVATOR TAB — HINGE										
		SCALE		66644-139										
		FULL SIZE		REF. DRAWING NO.										
		NAVAL AIRCRAFT FACTORY		PHILADELPHIA										

Order 10/11/40.

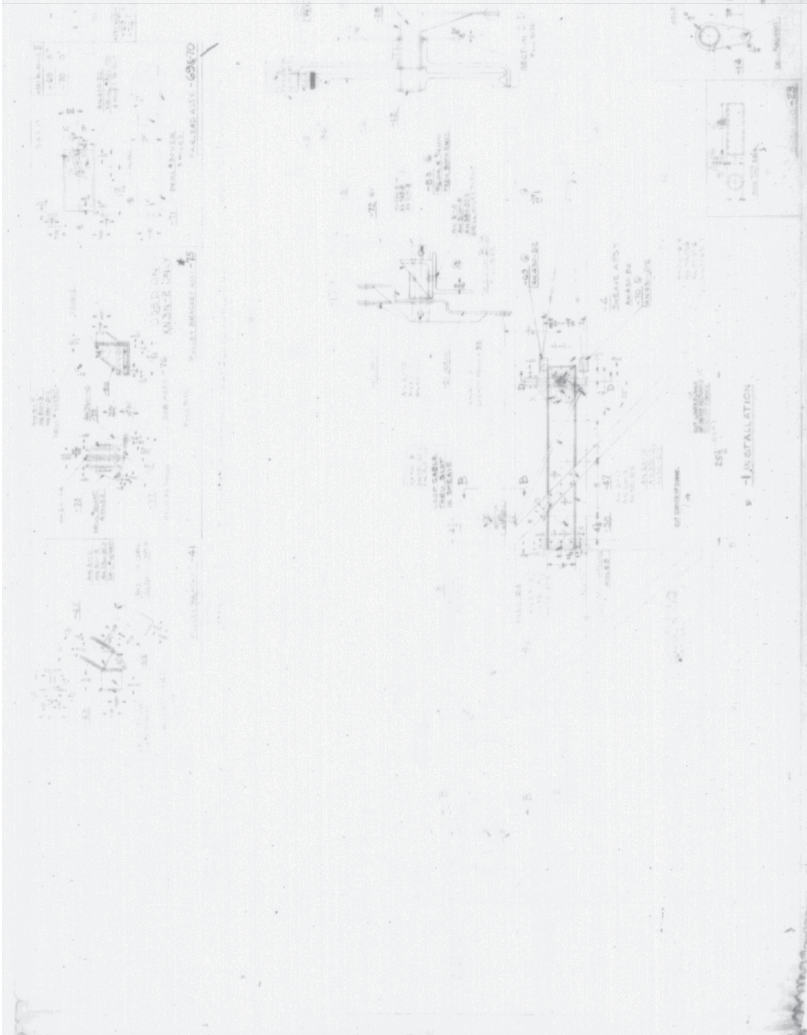
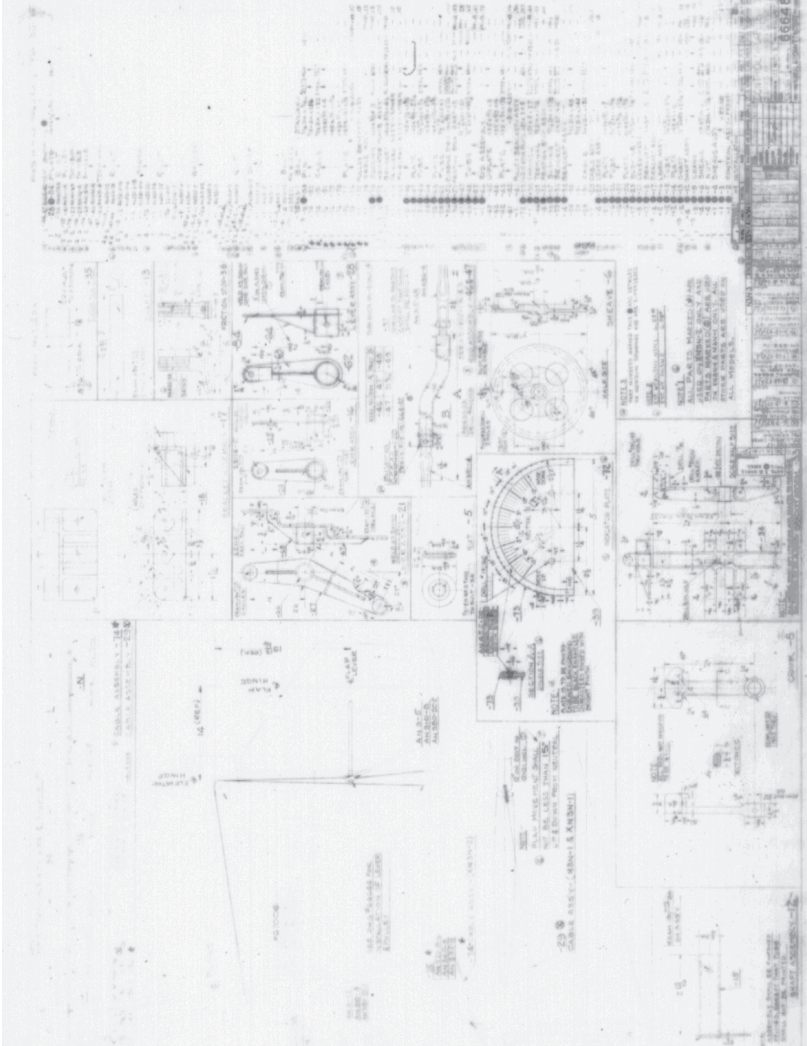


Table with multiple columns and rows of text, likely a parts list or specification table. The text is small and difficult to read.

6668

66648-33

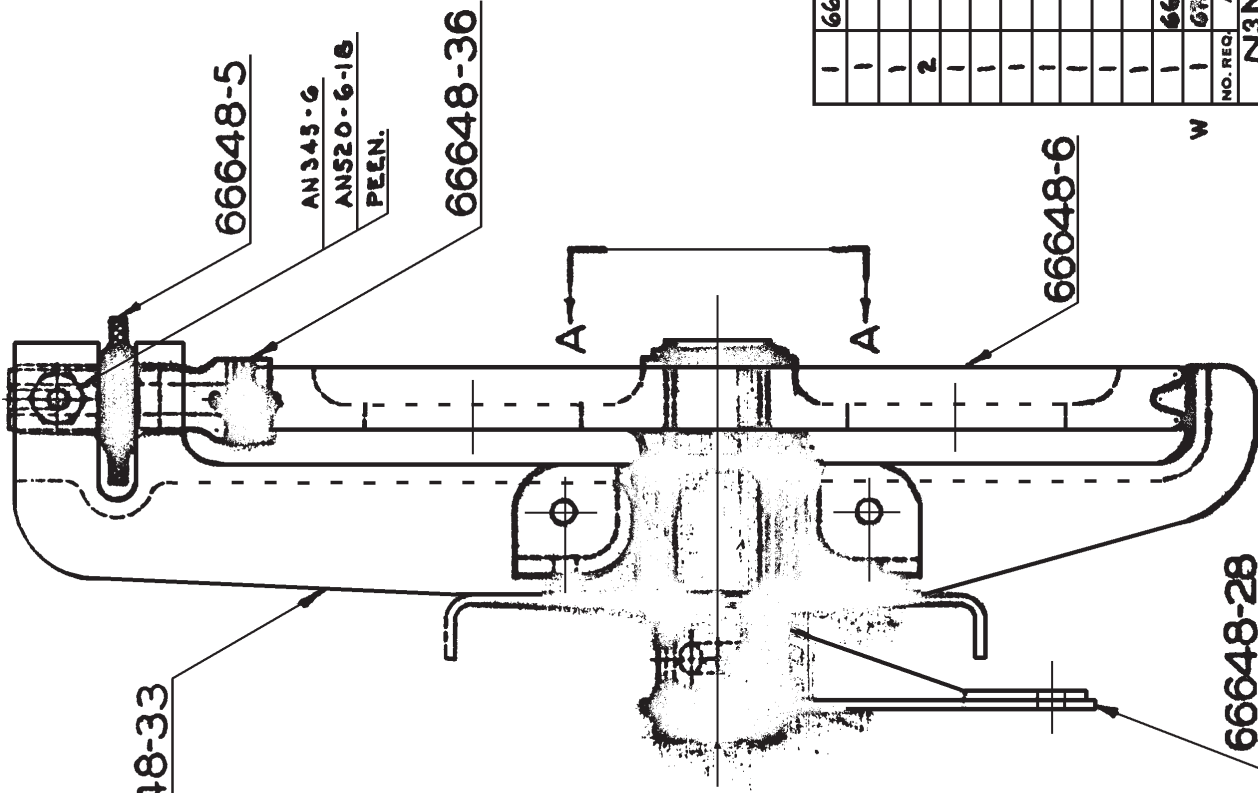
66648-5

AN 345-6
AN 520-6-16
PEEN.

66648-36

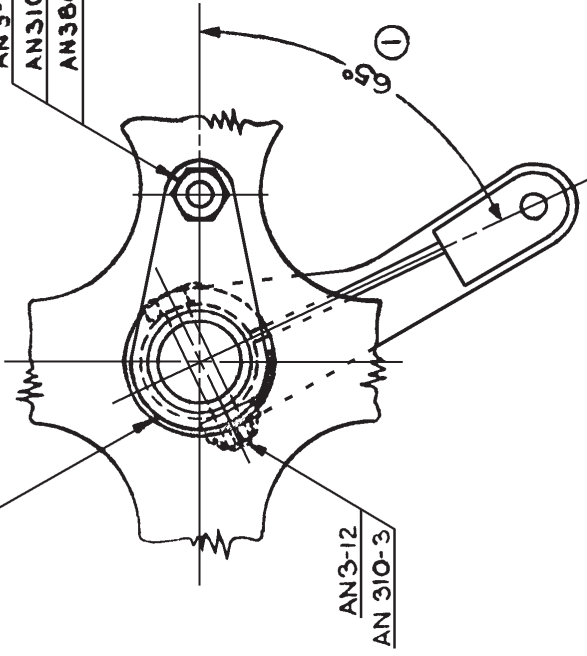
66648-6

66648-28



66648-12

AN 3-10
AN 310-3
AN 380-2C-2



VIEW A-A

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
1	66648-4	AN 520-6-16	SCREW	STANDARD						
1	4	AN 380-2C-2	COTTER	STANDARD						
1	4	AN 345-6	NUT	STANDARD						
2	4	AN 310-3	NUT	STANDARD						
1	4	AN 3-12	BOLT	STANDARD						
1	4	AN 310-3	BOLT	STANDARD						
1	4		SECTION STOP ASSEMBLY							
1	4		WELT ASSEMB.							
1	4		ASSEMBLY							
1	4		ASSEMBLY							
1	4		WELT ASSEMB.							
1	66648-4									
1	66648-1								1.8	

N3N-3 --DESIGNED FOR DIMENSIONS ARE IN INCHES, LIMITS ± .010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.

ALTERNATIONS
 ① 1-16-41 177
 ADDED.
 SHOW, 6° DIM.
 VIEW A-A: 66648-28

DRAWN TRACED
 CHECKED
 SUPERVISOR
 STRUCTURE
 CHIEF DRAFT.
 PROJ. ENG.
 INST. ENF. ENG.
 APPROVAL

SUPERSEDED BY

SCALE FULL SIZE

REF. DRAWING NO. 66648-4

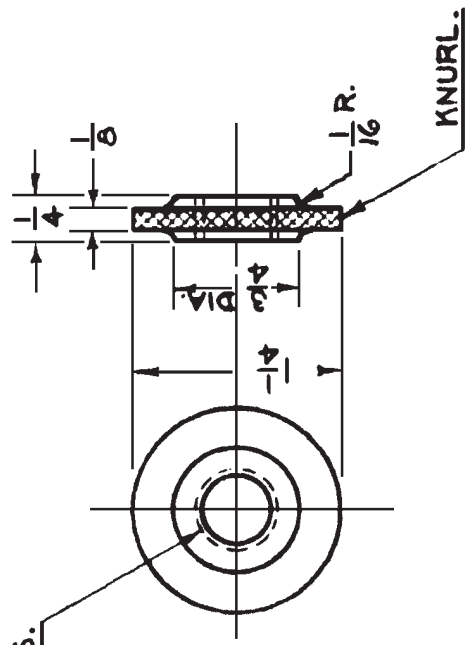
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

SHEAVE UNIT
 ELEVATOR TAB CONTROL ASSEMBLY

66648-5

Rev. 4/29/40.

1/2-20 N.F.3. THDS.



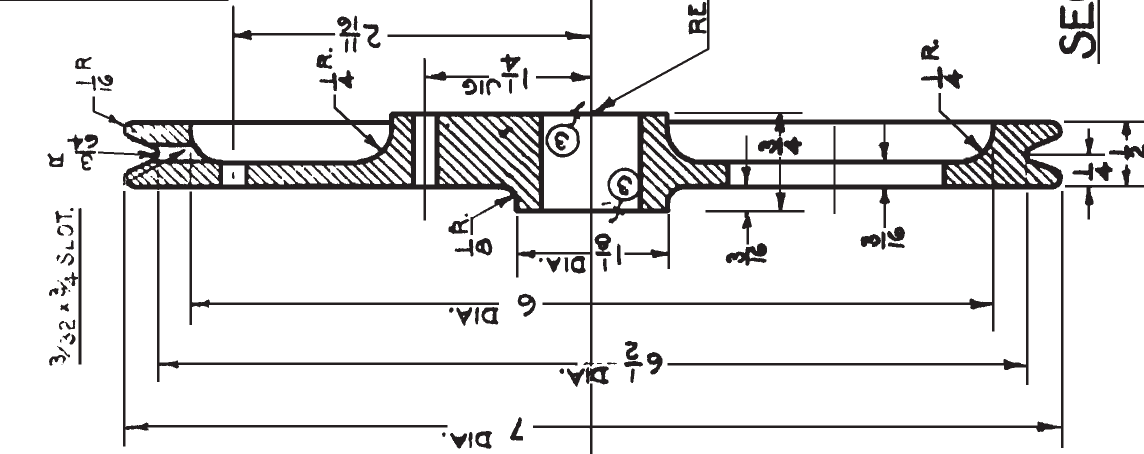
NO. REQ.	1	66648-4	66648-5	NUT	1 1/4 DIA. x 1/4	STEEL	9933	90000	5-21	.05	
ASSEM.				NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	
N3N-3		DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.							
		ALTERATIONS		DRAWN TRACED LIPPENHOLZ 11-10-39							
				CHECKED <i>Stanger</i> 1-25-40							
				SUPERVISOR <i>L.L. Wap</i> 4-25-40							
				STRUCTURE							
				CHIEF DRAFT. <i>Amberg 5/2/40</i>							
				PROJ. ENG. <i>Hornblower 5/2/40</i>							
				ASST. CNF. ENG. <i>Barnes 7/16-40</i>							
				APPROVAL							
				NUT				ELEVATOR TAB CONTROL - DETAIL			
				SUPERSEDED BY				SUPERSEDED 66648-5A2M			
				SCALE				FULL SIZE			
				REF. DRAWING NO.				66648-5			
				NAVY YARD				NAVAL AIRCRAFT FACTORY PHILADELPHIA			

W

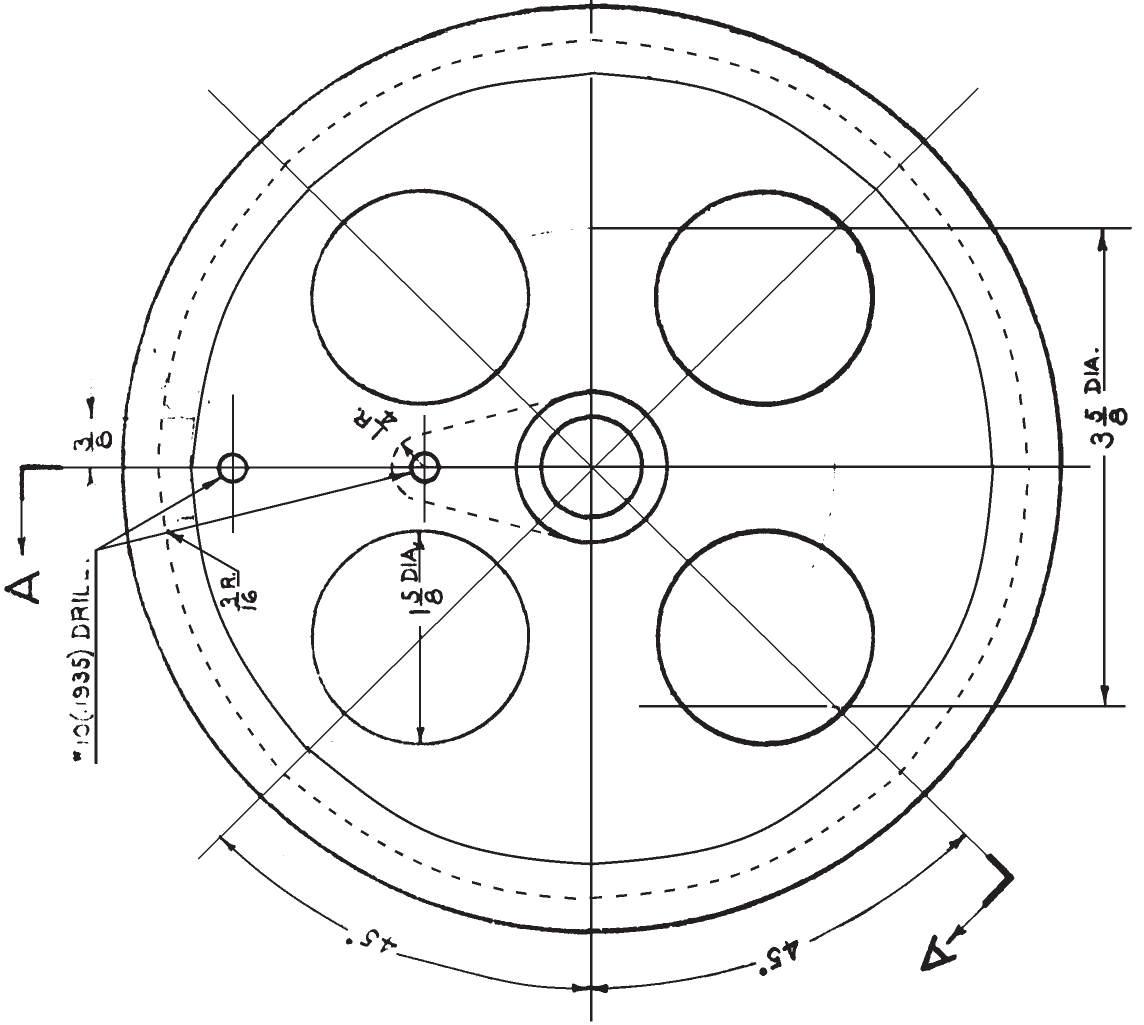
66648-6

Ord. 4/29/42.

- ① BUTT
 - ② BURN FINISH
 - ③ SMOOTH BURN FINISH
 - ④ SMOOTH BURN FINISH
 - ⑤ SMOOTH FILE FINISH
 - ⑥ SMOOTH FILE FINISH
 - ⑦ REMOVE FINES AND SPRINGS
- FINISH ALL SURFACES AND ATTACHED SPECIFICATIONS



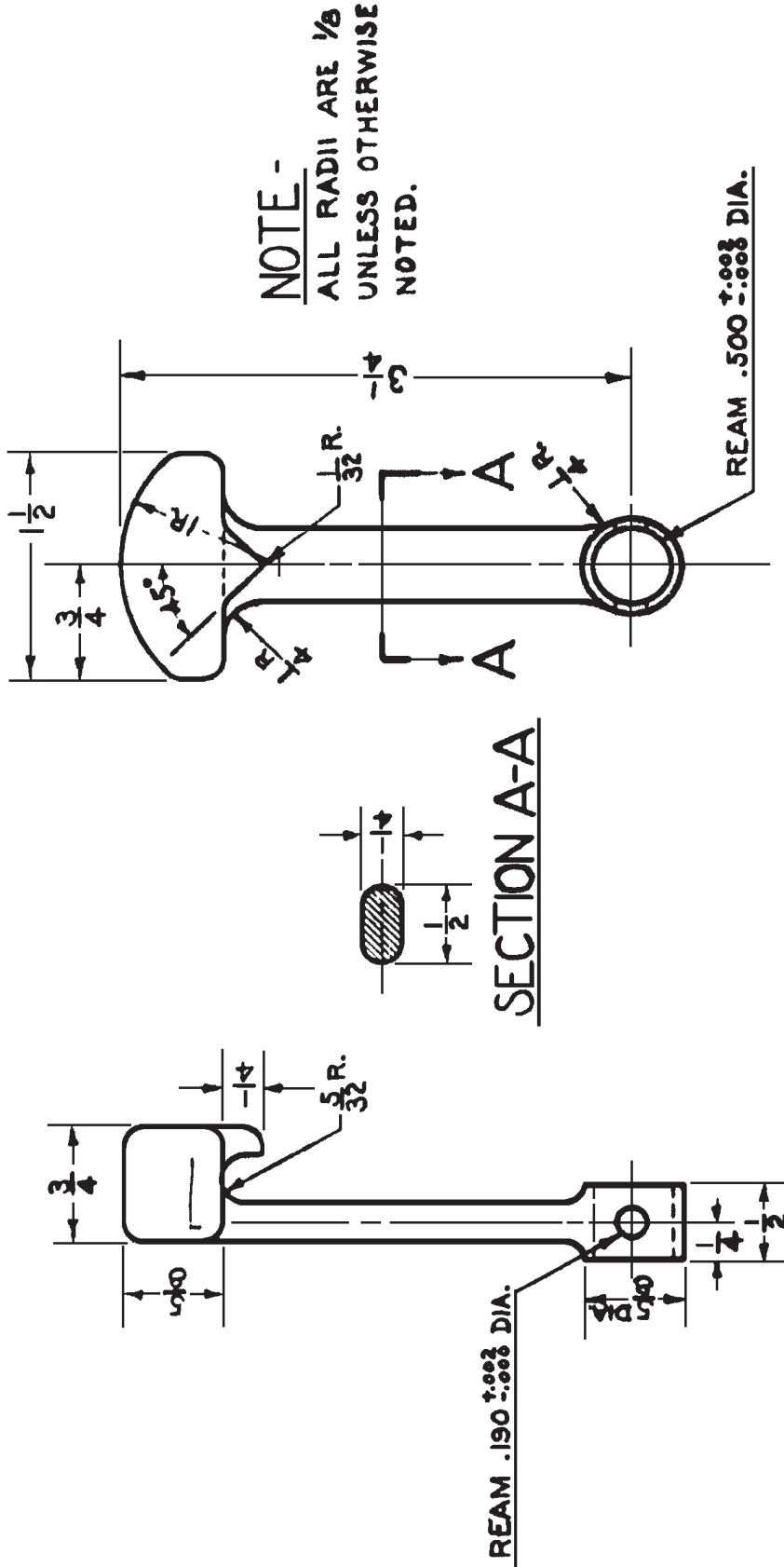
SECTION A-A



W	1	66648-4	66648-6	SHEAVE	CASTING	ALLOY	SA-8	29000	PT-14	.00
	NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	U.T.	FINISH	EST. WT. ACT. WT.
	N3N-3					4 DECIMALS ± .010, ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.				
				DESIGNED FOR						
				DRAWN TRACED						
				CHECKED						
				SUPERVISOR						
				STRUCTURE						
				CHIEF DRAFT.						
				PROJ. ENG.						
				ASST. CIV. ENG.						
				APPROVAL						
				ALTERATIONS						
				SUPERSEDED BY						
				SCALE						
				FULL SIZE						
				REF. DRAWING NO.						
				66648-6						
				SUPERSEDED BY						
				ELEVATOR TAB CONTROL - DETAIL						
				SHEAVE						
				NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA						

Ord. 4/29/40.

66648-8



REAM .190 ±.003 DIA.

REAM .500 ±.003 DIA.

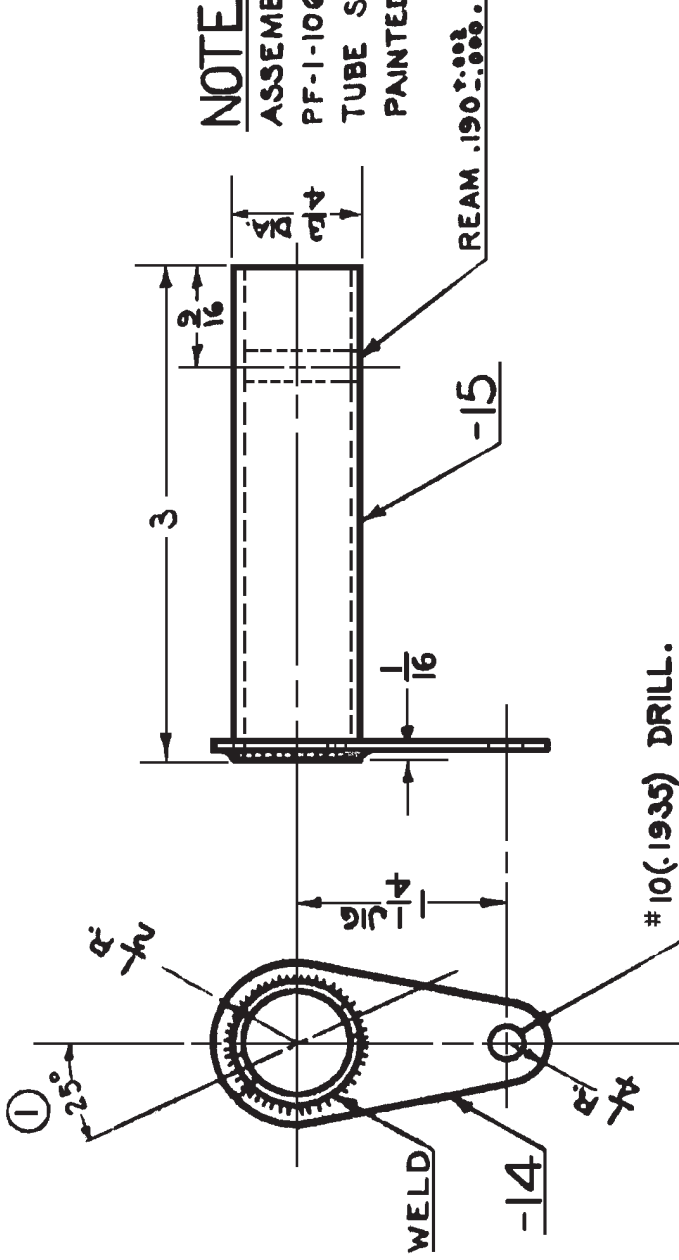
SECTION A-A

W	NO. REQ.	ASSEM.	66648-8	PART NO.	66648-8	CRANK	CASTING	ALUM. 2024	SA-8	29000	PF-100	.091
	DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2° UNLESS OTHERWISE NOTED.											
	DESIGNED FOR											
	LIPPENHOLZ 11-9-39											
	DRAWN TRACED											
	CHECKED											
	SUPERVISOR											
	STRUCTURE											
	CHIEF DRAFT.											
	PROJ. ENG.											
	ASST. CHIEF. ENG.											
	APPROVAL											
	ALTERNATIONS											
	SUPERSEDED BY											
	SCALE											
	FULL SIZE											
	REF. DRAWING NO.											
	66648-8											
	SUPERSEDED BY											
	66648-8											
	NAVAL AIRCRAFT FACTORY PHILADELPHIA											

CRANK
ELEVATOR TAB CONTROL - DETAIL

66648-12

Rev. 4/29/40.



NOTE -
 ASSEMBLY FINISHED
 PF-1-106, EXCEPT THAT
 TUBE SHALL NOT BE
 PAINTED.

#10 (1935) DRILL.

1	66648-12	66648-15	TUBE	3/4 O.D. x .058-3	STEEL	44T10			
1	66648-12	66648-14	PLATE	.049 x 1 x 2	STEEL	47514			
1	66648-4	66648-12	SHAFT ASSEM.					PH-S-10495000	SEE NOTE .14
NO. REQ.		ASSEM.	PART NO.	DIMENSIONS ARE IN INCHES. LIMITS $\pm 1/16$ DECIMALS $\pm .010$, ANGLES $\pm 1/4^\circ$, UNLESS OTHERWISE NOTED.		MATERIAL		HT. T.	FINISH
N3N-3				STOCK					

SHAFT ELEVATOR TAB CONTROL
 SHEAVE WELD ASSEMBLY

SUPERSEDED BY

SCALE FULL SIZE

REF. DRAWING NO. 66648-12

NAVAL AIRCRAFT FACTORY PHILADELPHIA

APPROVAL

ED, 25 WAD 50

1-16-41

ALTERATIONS

DRAWN TRACED

CHECKED

SUPERVISOR

STRUCTURE

CHIEF DRAFT

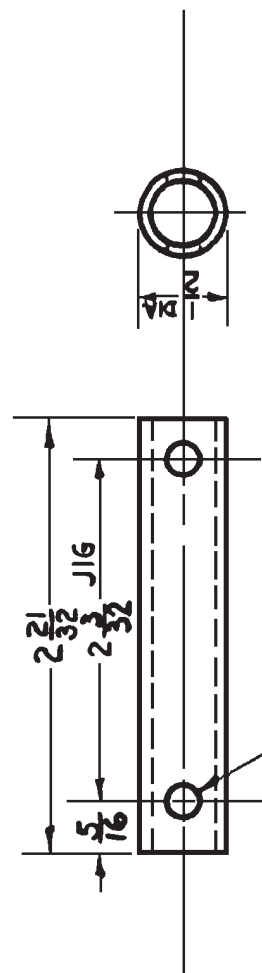
PROJ. ENG.

ASST. CH'F. ENG.

APPROVAL

66648-13

Order 6/27/40

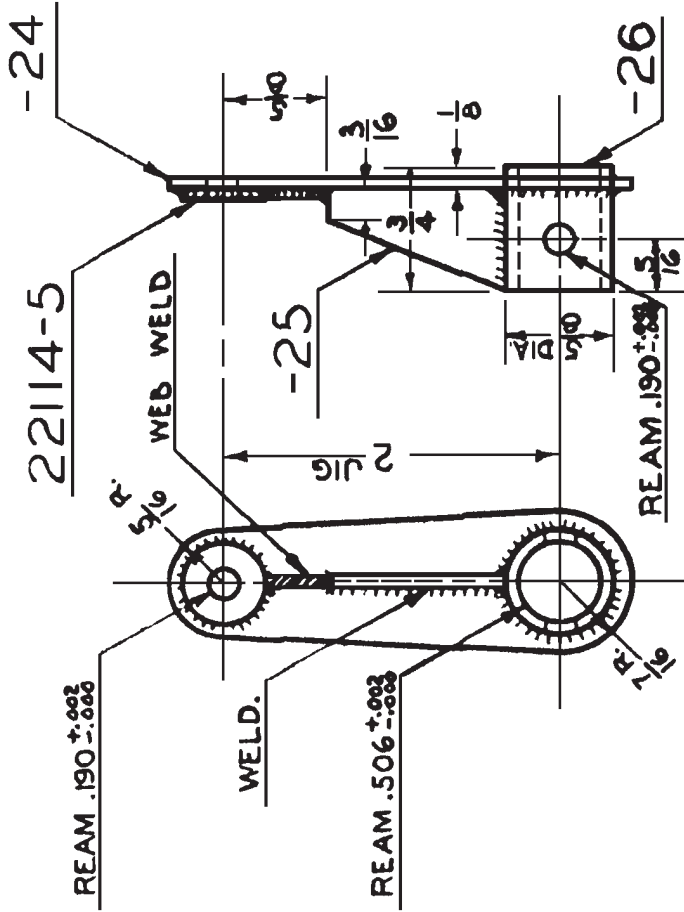


REAM .190⁺⁰⁰²_{-.000} - 2 HOLES.

1	66648-13	66648-13	SHAFT	1/20.D x .058 x 2 1/16	STEEL	44T18	---	95000	PP-1	.055	
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
N3N-3											
DIMENSIONS ARE IN INCHES, LIMITS ± 1/64 DECIMALS ± .010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.											
DRAWN TRACED			LIPPENHOLZ 11-10-38								
CHECKED			P. Humbert 6-14-40								
SUPERVISOR			Caplan 6-14-40								
STRUCTURE											
CHIEF DRAFT.			7-24-40								
PROJ. ENG.			Shack 6-26-40								
ASST. CH'F. ENG.			Barnaby 6-27-40								
APPROVAL											
ALTERNATIONS											
SHAFT											
ELEV. TAB CONTROL — DETAIL.											
SUPERSEDED BY											
SCALE											
FULL SIZE											
REF. DRAWING NO. 66648-13											
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA											

66648-16

Rev. 4/29/40



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T. U.T.S. / SQ. IN.	FINISH EST. WT. ACT. WT.
1	66648-16	22114-5	WASHER	STANDARD			
1	66648-16	66648-24	TUBE	5/8 O.D. x .065 x 3/4	STEEL	44T18	
1	66648-16	66648-25	PLATE	.049 x 5/8 x 1 1/16	STEEL	47314	
1	66648-16	66648-24	PLATE	.049 x 7/8 x 2 3/4	STEEL	47314	
1	66648-2	66648-16	LEVER ASSEMBLY				PH-540N 95000 PF-H06 .07

NO. REQ. ASSEM. PART NO. NAME STOCK MATERIAL SPEC. HT. T. U.T.S. / SQ. IN. FINISH EST. WT. ACT. WT.

N3N-3 ← DESIGNED FOR

DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.

DRAWN TRACED LIFE 11-11-40

CHECKED *DL*

SUPERVISOR *LL Kelly* 4-25-40

STRUCTURE *Standard*

CHIEF DRAFT. *Standard*

PROJ. ENG. *Standard*

ASST. CNF. ENG. *Standard*

APPROVAL *Standard* 4-26-40

ALTERNATIONS

LINK ELEVATOR TAB CONTROL
FRONT CRANK WELD ASSEM.

SUPERSEDED BY

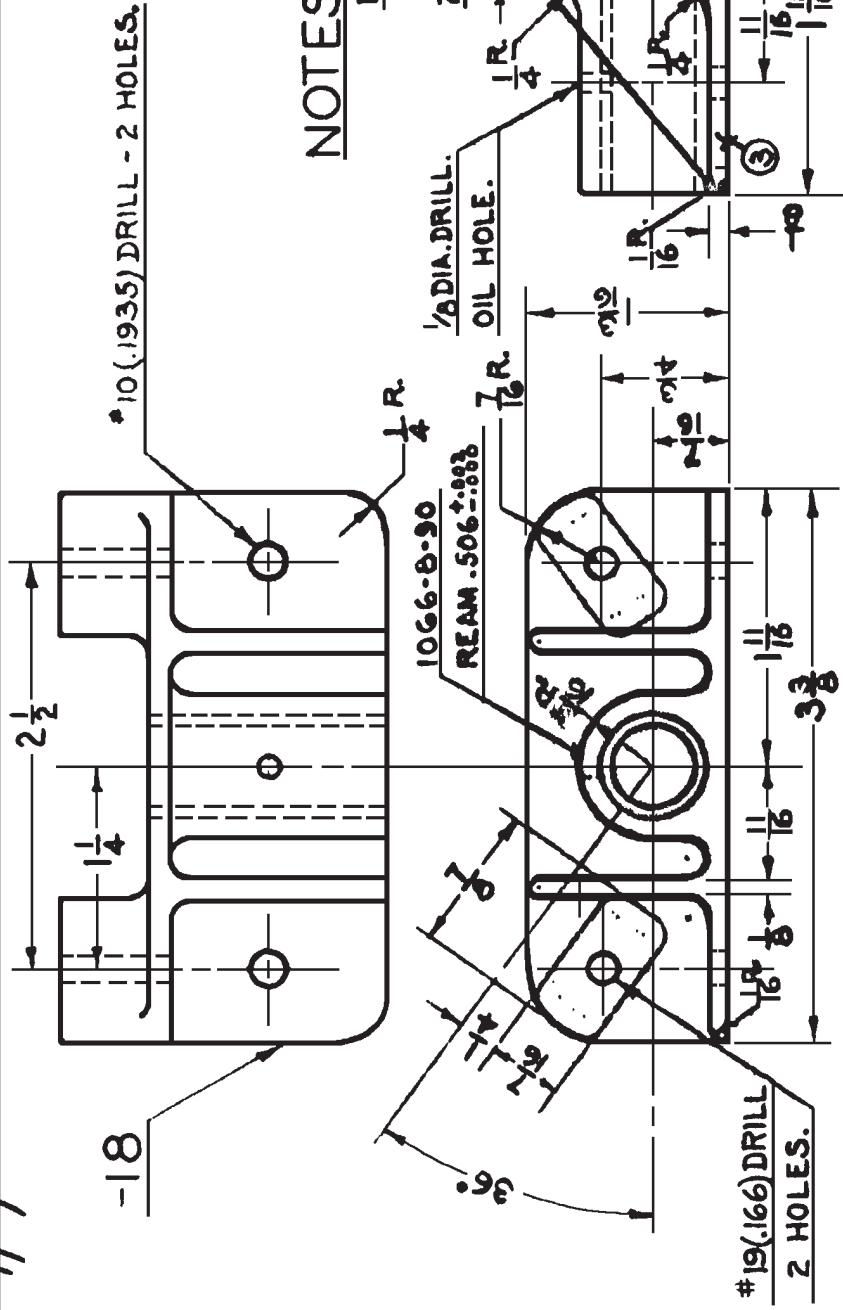
SCALE FULL SIZE

REF. DRAWING NO. **66648-16**

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

66648-17

Ord. 4/29/40



NOTES-

- 1. ALL RADII ARE $\frac{1}{8}$ UNLESS OTHERWISE NOTED.
- 2. JIG DRILL ALL HOLES.

1	66648-17	1066-B-30	BUSHING	STANDARD	EQUIVALENT OF 66648-23
1	66648-17	66648-18	BRACKET	CASTING	ALUM. ALLOY 2024 SA-0 29000 PF-100
1	66648-17	66648-17	BRACKET ASSEM.		
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.
					HT. T. 1/32 IN. FINISH EST. WT. ACT. WT
N3N-3					
DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS $\pm \frac{1}{64}$ DECIMALS $\pm .010$, ANGLES $\pm \frac{1}{2}^\circ$, UNLESS OTHERWISE NOTED.					

W

DRAWN TRACED			
CHECKED			
SUPERVISOR			
STRUCTURE			
CHIEF DRAFT.			
PROJ. ENG.			
ASST. CH'F. ENG.			
APPROVAL			

ALTERATIONS

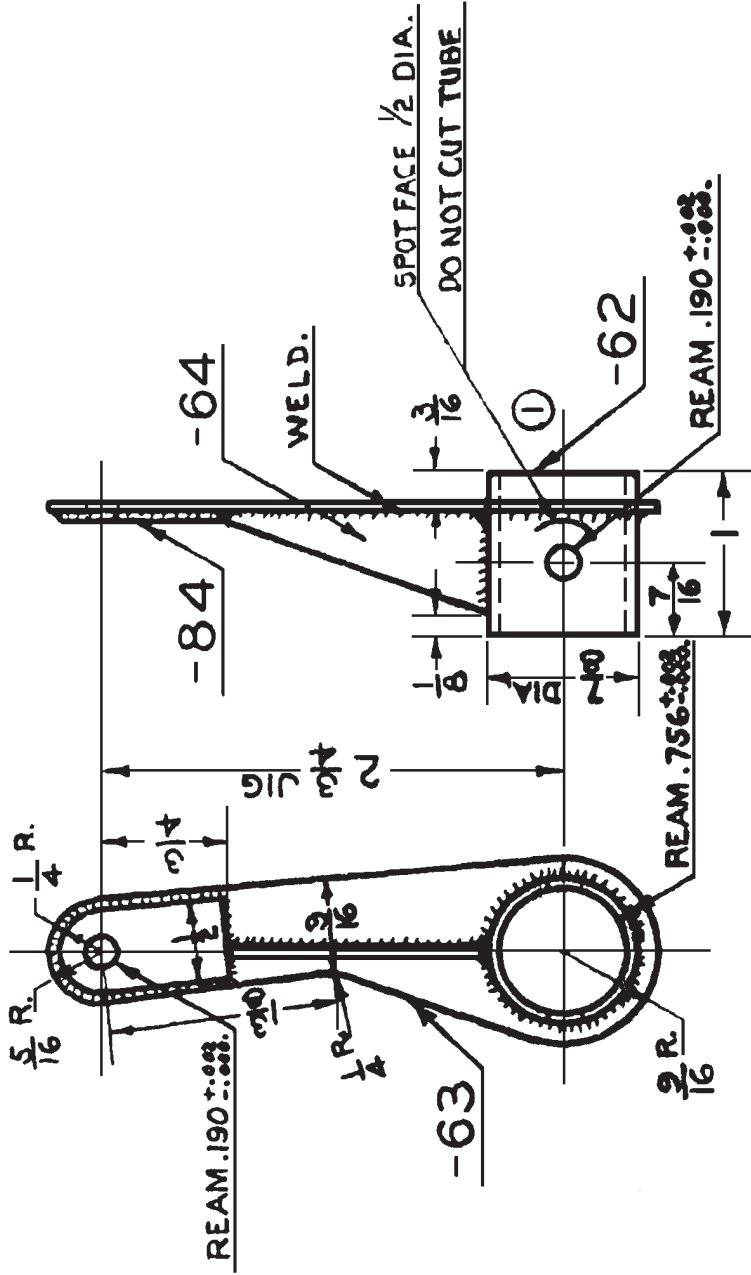
SUPERSEDED BY			
66648-17			
SCALE		REF. DRAWING NO.	
FULL SIZE		66648-17	
NAVY YARD		PHILADELPHIA	

BRACKET ELEV. TAB CONTROL CRANK ASSEMBLY

NAVAL AIRCRAFT FACTORY PHILADELPHIA

66648-28

Order 4/29/40



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
1	66648-2	66648-04	PLATE	.049 x 1/2 x 1	STEEL	47S14					
1	66648-3	66648-04	PLATE	.049 x 5/8 x 1 1/8	STEEL	47S14					
1	66648-4	66648-03	PLATE	.049 x 1 1/8 x 3 3/8	STEEL	47S14					
1	66648-5	66648-02	TUBE	7/8 O.D. x .065 = 1	STEEL	44718					
1	66648-6	66648-01	LEVER ASSEM.						PH-S-1000	95000	FF-100 .12
									U.T.S.	FINISH	EST. WT.
									#/SQ. IN.		ACT. WT.

N3N-3 ← DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.

DRAWN	LE	11-100
TRACED	LE	6-1-40
CHECKED	LE	6-1-40
SUPERVISOR	PKL	43540
STRUCTURE		
CHIEF DRAFT.	Almond	4/29/40
PROJ. ENG.		
ASST. CH'F. ENG.	Smiley	4/29/40
APPROVAL		

← CORRECTED TO SHOW SPOTFACE

← 2-10-41

← ALTERATIONS

LINK ELEVATOR TAB CONTROL
REAR CRANK WELD ASSEM.

SUPERSEDED BY **66648-28**

SCALE **FULL SIZE**

REF. DRAWING NO. **66648-28**

NAVY YARD **NAVAL AIRCRAFT FACTORY PHILADELPHIA**

W

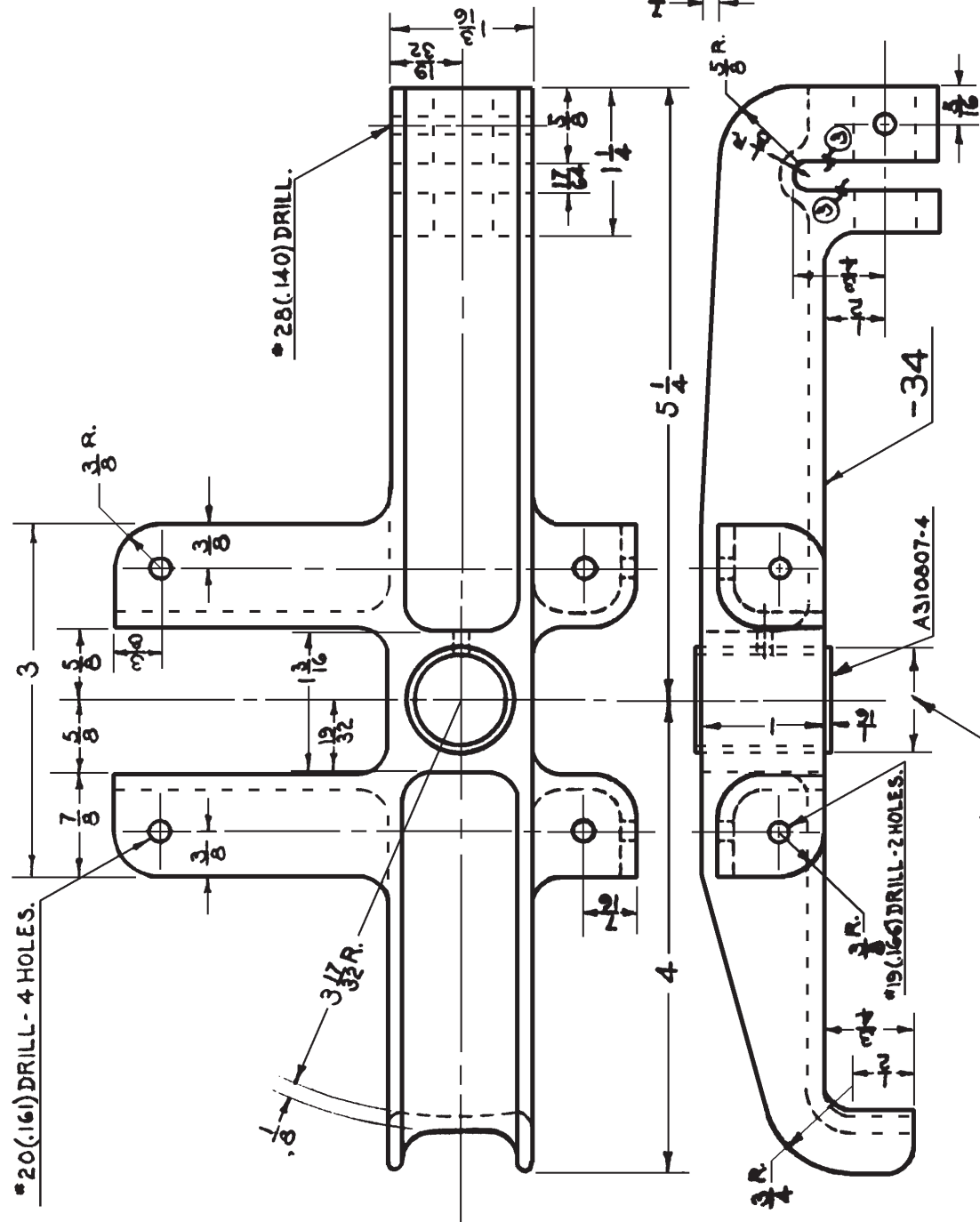
66648-33

Rev. 4/29/40.

- ① BUFF
- ② SAND PAPER
- ③ SMOOTH BACK FINISH
- ④ SMOOTH BACK FINISH
- ⑤ GRIND FILE ON EDGES
- ⑥ SAND BLAST
- ⑦ REMOVE FINIS AND STRESS
- ⑧ FINISH ALL SURFACES AND STRENGTH SPECIFIED

NOTES-

- 1. ALL FILLETS AND INSIDE RADII ARE $\frac{1}{4}$ UNLESS OTHERWISE NOTED.
- 2. ALL FLANGES ARE $\frac{1}{8}$ THICK.
- 3. JIG DRILL ALL HOLES.



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	#/SQ. IN.	FINISH	EST. WT.	ACT. WT.
1	66648-33	A310807-4	BUSHING	CASTING	EQUIVALENT TO 66648-35					
1	66648-33	66648-33	BRACKET	CASTING	ALUM. 6061 SA-0 29000 MP+MC					
1	66648-4	A310807-4	BRACKET ASSEM.							

DRAWN		CHECKED		SUPERVISOR		STRUCTURE		CHIEF DRAFT.		PROJ. ENG.		INST. CH. ENG.		APPROVAL	
				L. J. L.											

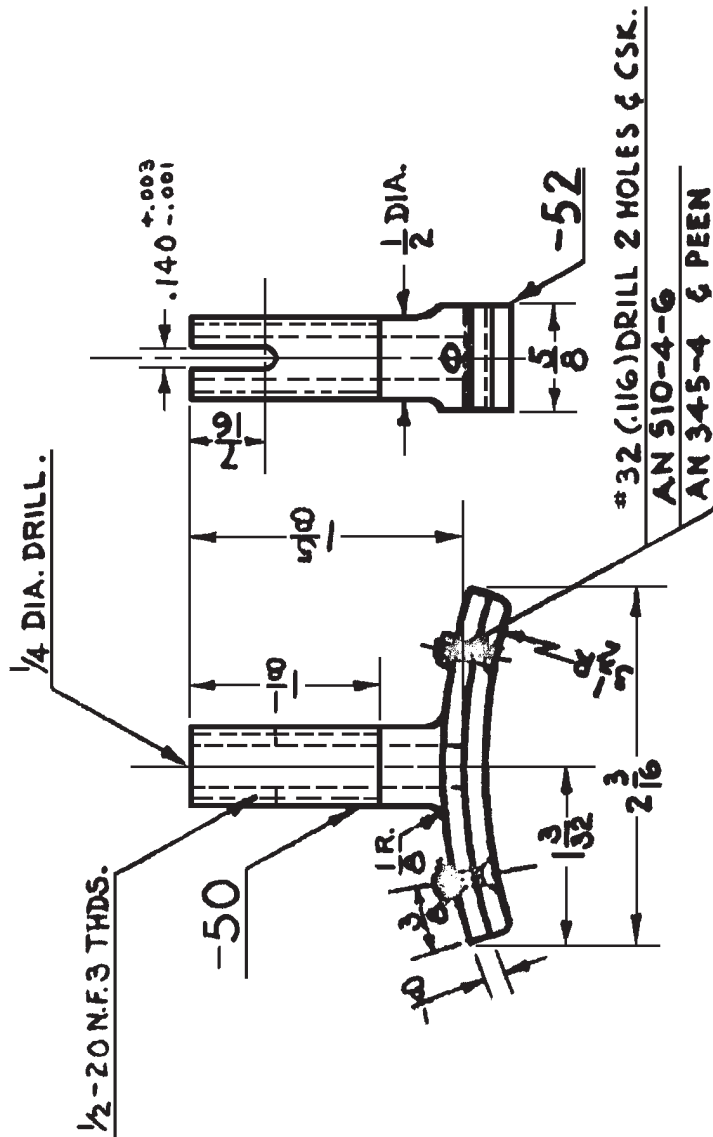
DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS $\pm .010$. ANGLES $\pm \frac{1}{4}$. UNLESS OTHERWISE NOTED.	
N3N-3			

SUPERSEDED BY		SUPERSEDER	
SCALE		66648-33	
FULL SIZE		REF. DRAWING	
NAVY YARD		NAVAL AIRCRAFT FACTORY PHILADELPHIA	

BRACKET ELEV. TAB CONTROL SHEAVE ASSEMBLY

66648-36

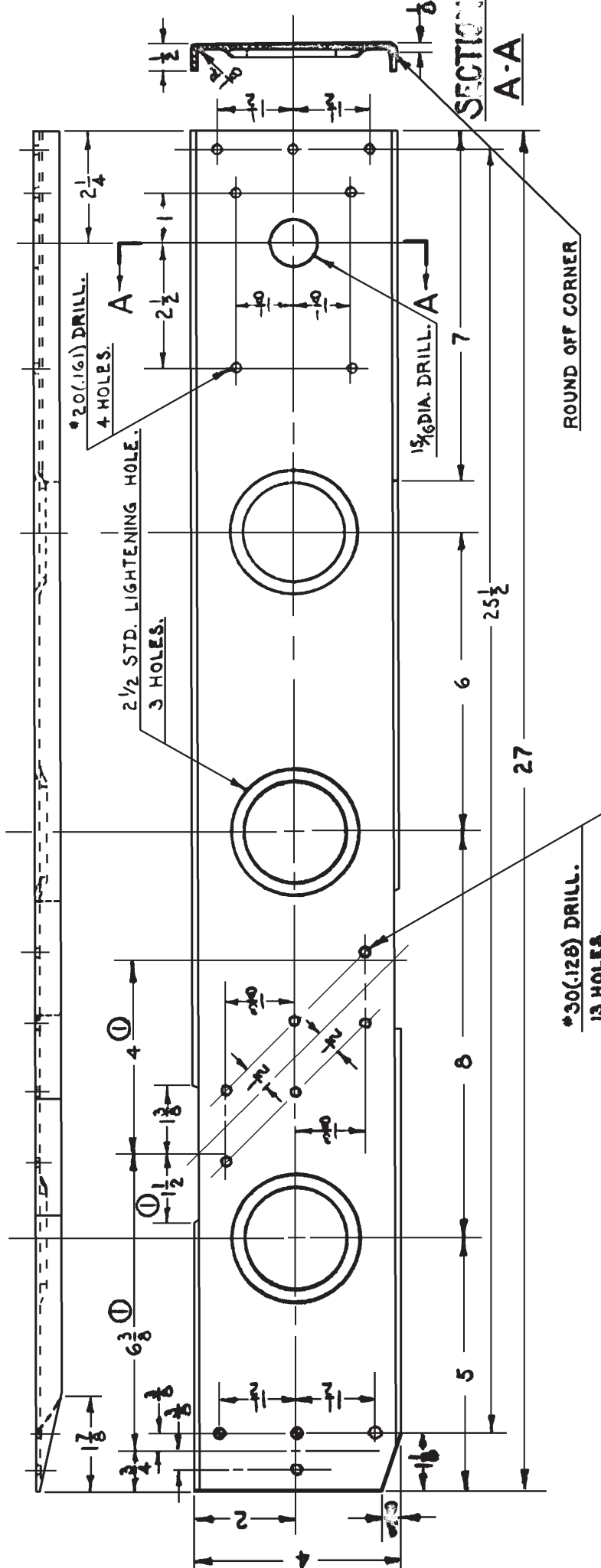
Ord. 4/29/40.



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
2	66648-36	ANS45-4	NUT								
2	66648-36	517-46	MACHINE SCREW	STANDARD							
1	66648-36	500	RUBBING STRIP	1/2" x 1/4" x 2 1/4"	MOLDED BRASS RIBBING (E83448)						
1	66648-36	220	FRICITION STOP	CASTING	APPLY 424 SA-6 29000 F74-103						
1	66648-4	66648-36	FRICITION STOP	ASSEMBLY						.04	
N3N-3			DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ± .010. ANGLES ± 1/8°. UNLESS OTHERWISE NOTED.						
			DRAWN TRACED		STOP SHEAVE ASSEMBLY						
			CHECKED		ELEVATOR TAB CONTROL ASSEMBLY						
			SUPERVISOR		SUPERSEDED BY						
			STRUCTURE		SCALE						
			CHIEF DRAFT.		FULL SIZE						
			PROJ. ENG.		REF. DRAWING NO.						
			ASST. CNF. ENG.		66648-36						
			APPROVAL		NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA						
			ALTERATIONS								
			① 9-17-40								
			MATERIAL								
			SPEC. W/5								
			L-10								

NOTE-

JIG DRILL ALL HOLES.



ROUND OFF CORNER

SECTION A-A

W	1	67524-1	66-000	CHANNEL	.0515 x 27	STOCK	APPROV	DATE	HT. T.	UTS.	FINISH	EST. WT.	ACT. WT.	
	NO. REQ.	ASSEM.	PART NO.	NAME	DIMENSIONS ARE IN INCHES. LIMITS ±			MATERIAL	SPEC.	HT. T.	UTS.	FINISH	EST. WT.	ACT. WT.
	N3N-3				DESIGNED FOR									
					DRAWN									
					TRACED									
					CHECKED									
					SUPERVISOR									
					STRUCTURE									
					CHIEF DRAFT.									
					PROJ. ENG.									
					LEST. ENF. ENG.									
					APPROVAL									
					ALTERNATIONS									
					① 12-2-40									
					6/8 WAS 6/8									
					1 1/2 WAS 1 3/8									
					2 WAS 3/16									

CHANNEL ELEV. TAB CONTROL
SUPPORT

DETAIL

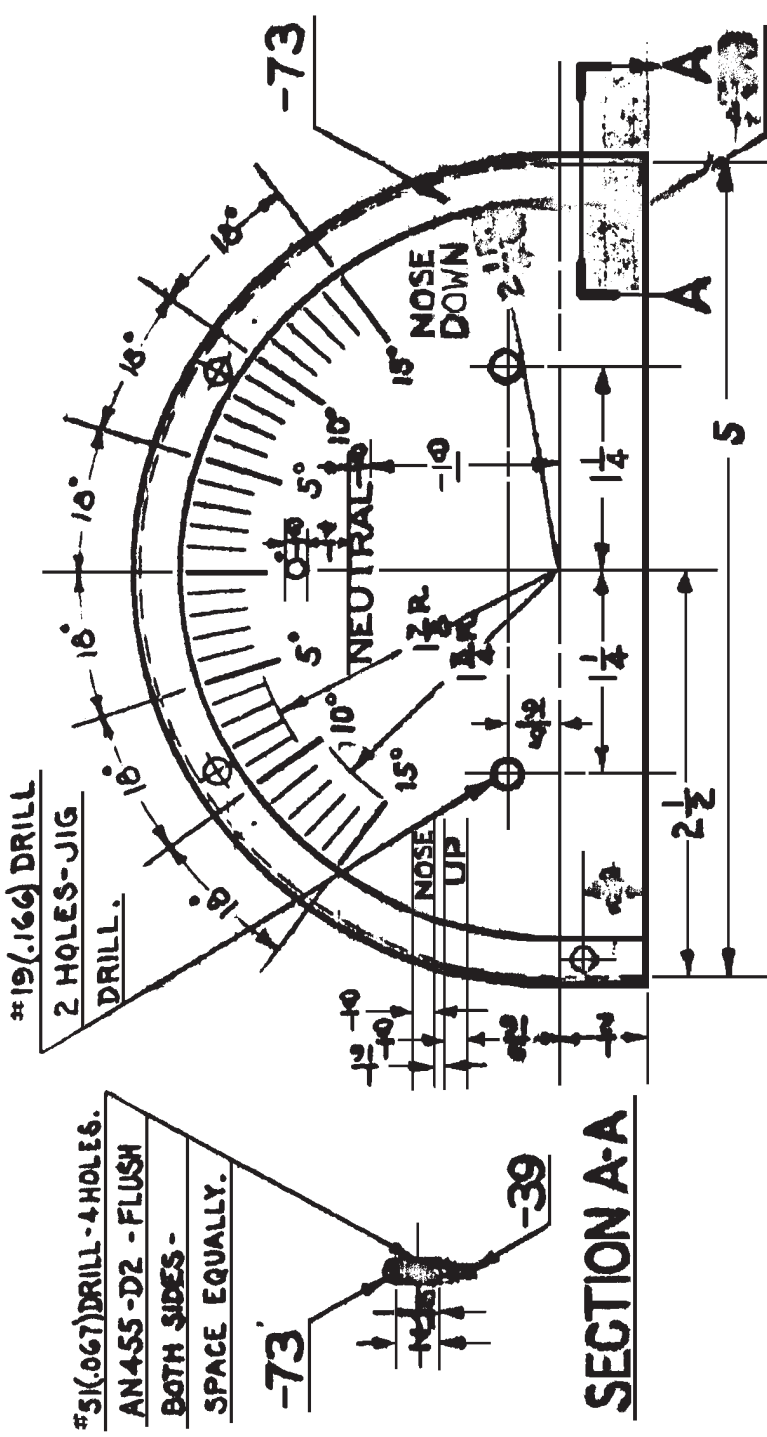
SUPERSEDED BY

SUPERSEDES

REF. DRAWING
66648-38

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

Rev. 4/29/50



#5(.067) DRILL - 4 HOLES.
AN 455 - D2 - FLUSH
BOTH SIDES -
SPACE EQUALLY.

#19(.166) DRILL
2 HOLES - JIG
DRILL.

NOTE -
PLATE PHOTO-
ENGRAVED BACKGROUND
BLACK FINISHED.
CHARACTERS RAISED
WITH LIGHT FINISH.

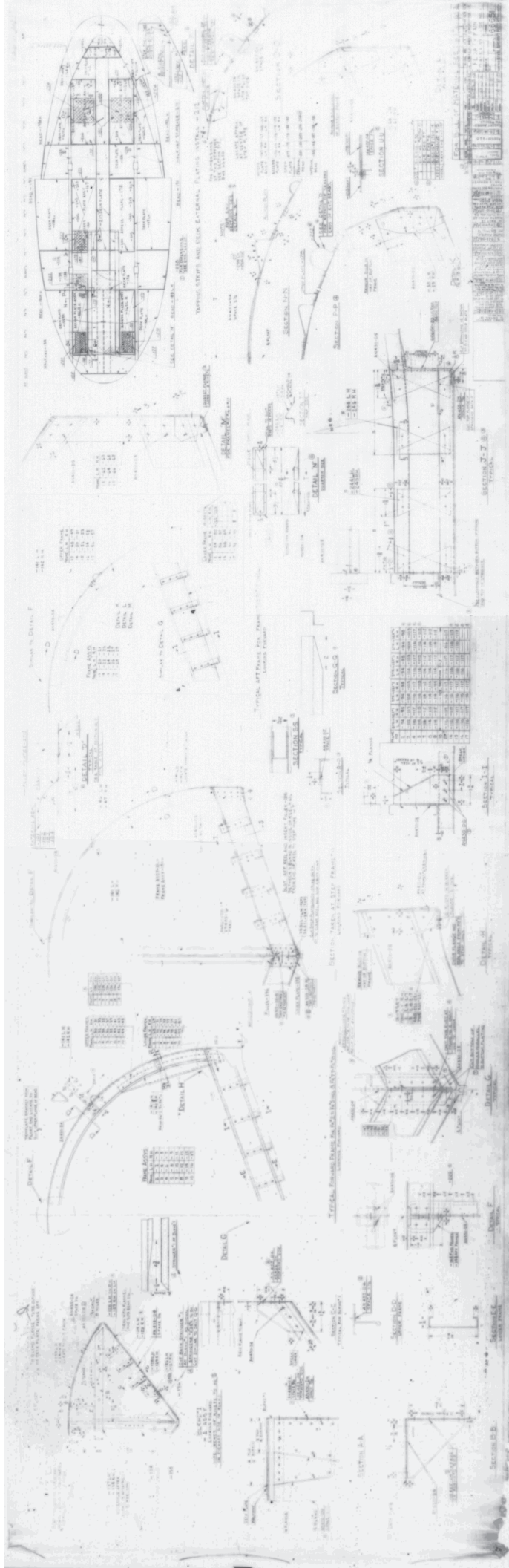
SECTION A-A

4	66648-72	PIVET								
1	66648-									
1	66648-	PLATE							89-63 6200	
1	66648									
	NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T. U.T.S. IN.	FINISH	EST. WT. ACT. WT.
N3N-3						DIMENSIONS ARE IN INCHES. LIMITS ± .010. ANGLES ± 1/2° UNLESS OTHERWISE NOTED.				

W

DRAWN TRACED				ELEVATOR			
CHECKED				SUPERSEDED BY			
SUPERVISOR				SCALE			
STRUCTURE				FULL SIZE			
CHIEF DRAFT.				REF. DRAWING NO.			
PROJ. ENG.				SUPERSEDES			
ASST. CH'F. ENG.				66648-72			
APPROVAL				NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA			







1. 10' 0" x 10' 0" (100 sq ft)
 2. 10' 0" x 10' 0" (100 sq ft)
 3. 10' 0" x 10' 0" (100 sq ft)
 4. 10' 0" x 10' 0" (100 sq ft)
 5. 10' 0" x 10' 0" (100 sq ft)
 6. 10' 0" x 10' 0" (100 sq ft)
 7. 10' 0" x 10' 0" (100 sq ft)
 8. 10' 0" x 10' 0" (100 sq ft)
 9. 10' 0" x 10' 0" (100 sq ft)
 10. 10' 0" x 10' 0" (100 sq ft)

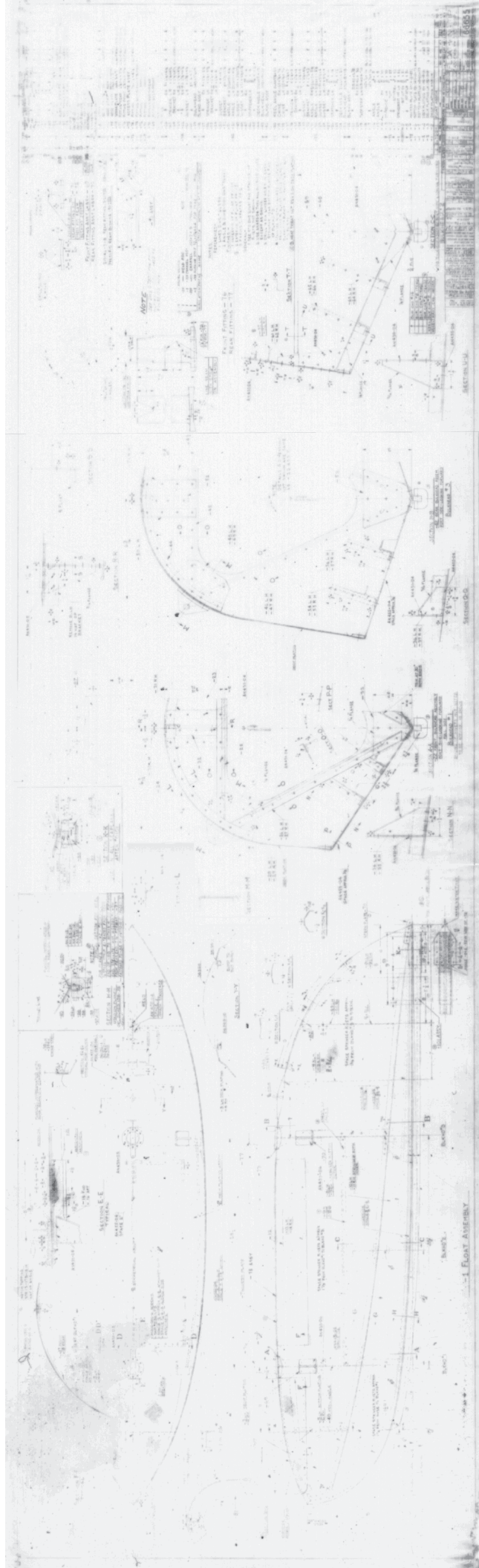
11. 10' 0" x 10' 0" (100 sq ft)
 12. 10' 0" x 10' 0" (100 sq ft)
 13. 10' 0" x 10' 0" (100 sq ft)
 14. 10' 0" x 10' 0" (100 sq ft)
 15. 10' 0" x 10' 0" (100 sq ft)
 16. 10' 0" x 10' 0" (100 sq ft)
 17. 10' 0" x 10' 0" (100 sq ft)
 18. 10' 0" x 10' 0" (100 sq ft)
 19. 10' 0" x 10' 0" (100 sq ft)
 20. 10' 0" x 10' 0" (100 sq ft)

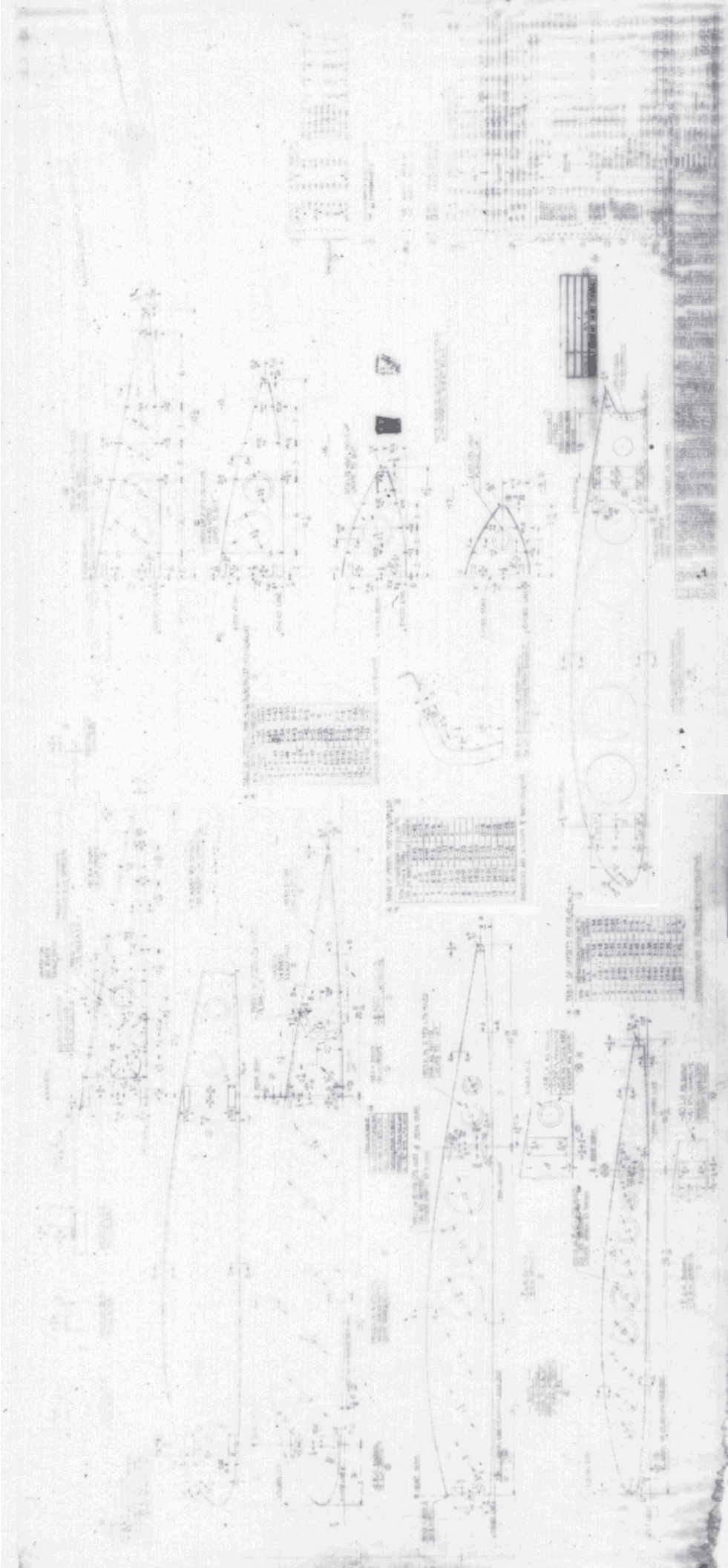
21. 10' 0" x 10' 0" (100 sq ft)
 22. 10' 0" x 10' 0" (100 sq ft)
 23. 10' 0" x 10' 0" (100 sq ft)
 24. 10' 0" x 10' 0" (100 sq ft)
 25. 10' 0" x 10' 0" (100 sq ft)
 26. 10' 0" x 10' 0" (100 sq ft)
 27. 10' 0" x 10' 0" (100 sq ft)
 28. 10' 0" x 10' 0" (100 sq ft)
 29. 10' 0" x 10' 0" (100 sq ft)
 30. 10' 0" x 10' 0" (100 sq ft)

31. 10' 0" x 10' 0" (100 sq ft)
 32. 10' 0" x 10' 0" (100 sq ft)
 33. 10' 0" x 10' 0" (100 sq ft)
 34. 10' 0" x 10' 0" (100 sq ft)
 35. 10' 0" x 10' 0" (100 sq ft)
 36. 10' 0" x 10' 0" (100 sq ft)
 37. 10' 0" x 10' 0" (100 sq ft)
 38. 10' 0" x 10' 0" (100 sq ft)
 39. 10' 0" x 10' 0" (100 sq ft)
 40. 10' 0" x 10' 0" (100 sq ft)

NO.	DESCRIPTION	QTY	UNIT
1
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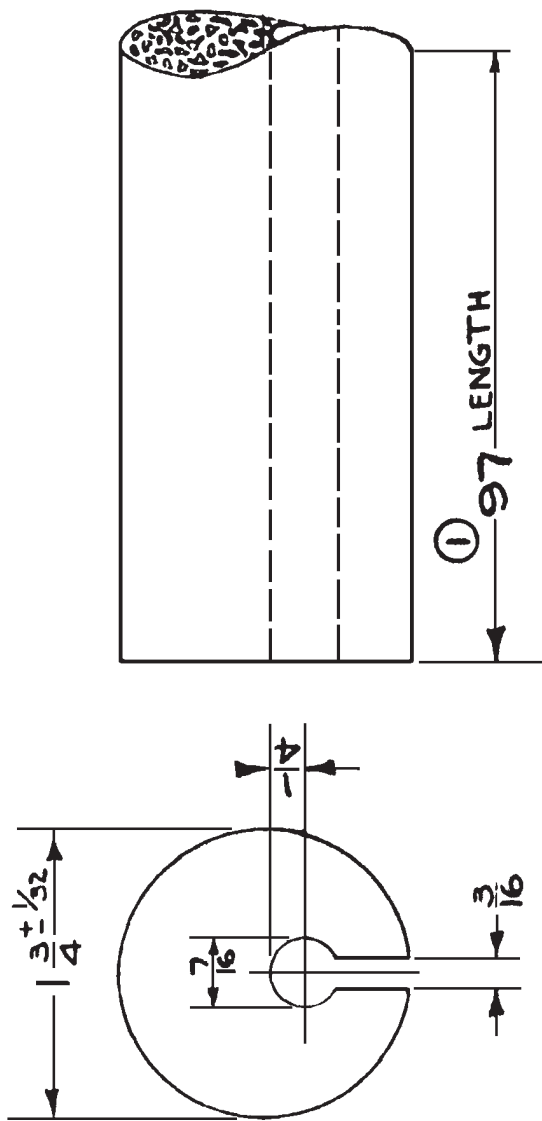
66652





66688-34

Ord. 10/5/39

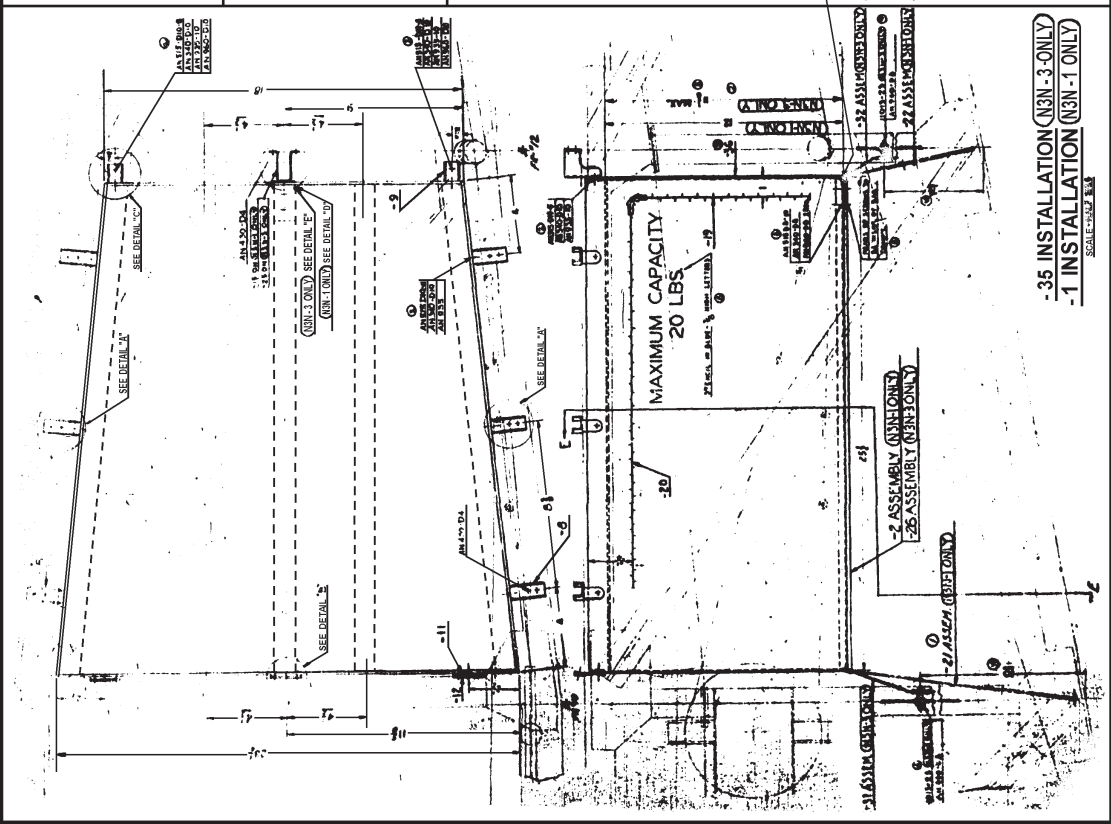


NO. REQ.	2	ASSEM.	66688-25	PART NO.	66688-34	PADDING	MATERIAL SPEC.	MOLDED RUBBER R-14	HT. T.	MAX. WT.	FINISH	2.3
N3N-3		← DESIGNED FOR		DIMENSIONS ARE IN INCHES, LIMITS ±		DECIMALS ±.010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.		STOCK		U.T.S. #/SQ. IN.		
		ALTERNATIONS		DRAWN TRACED		CHECKED		SUPERVISOR		PADDING-COCKPIT		
		LENGTH WAS 108		C-10-K		STRUCTURE		CHIEF DRAFT.		DETAIL		
		LABOR		PROJ. ENG.		ASST. CH'F. ENG.		APPROVAL		SUPERSEDED BY		
		①		NA		10-2-39		SCALE		66688-34		
				13/39				FULL SIZE		REF. DRAWING NO.		
				10/5/39				NAVY YARD		PHILADELPHIA		
								NAVAL AIRCRAFT FACTORY				

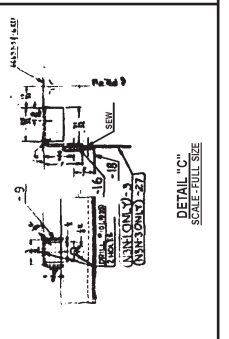
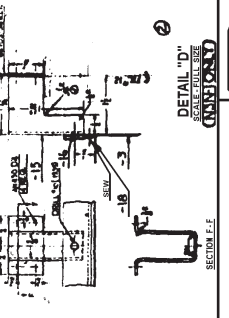
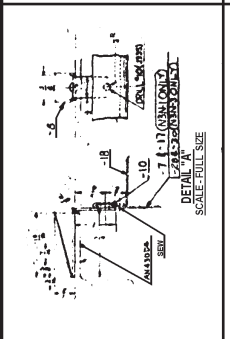
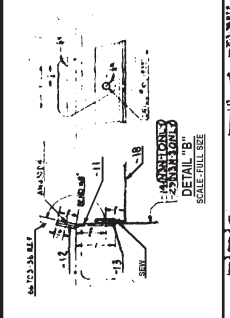
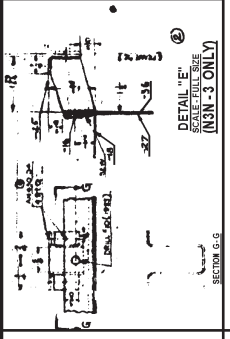
W



1-17-68

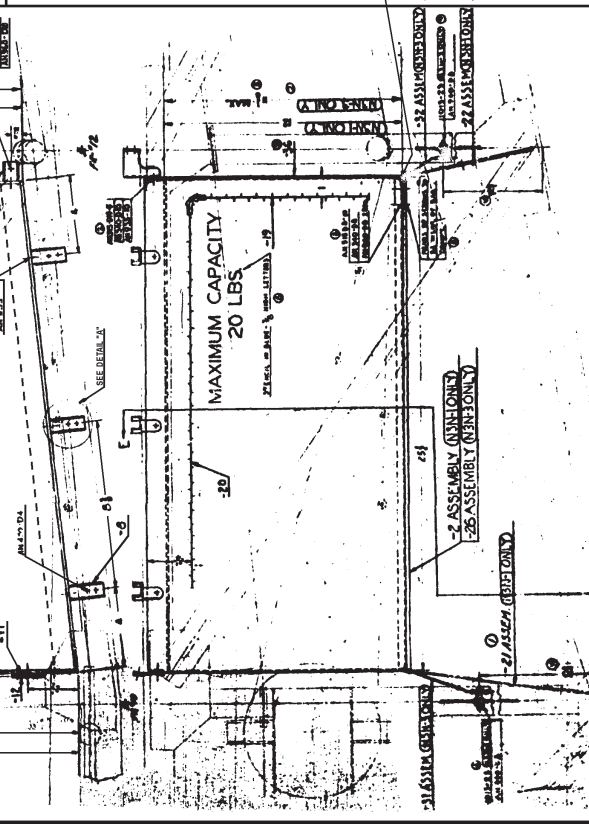
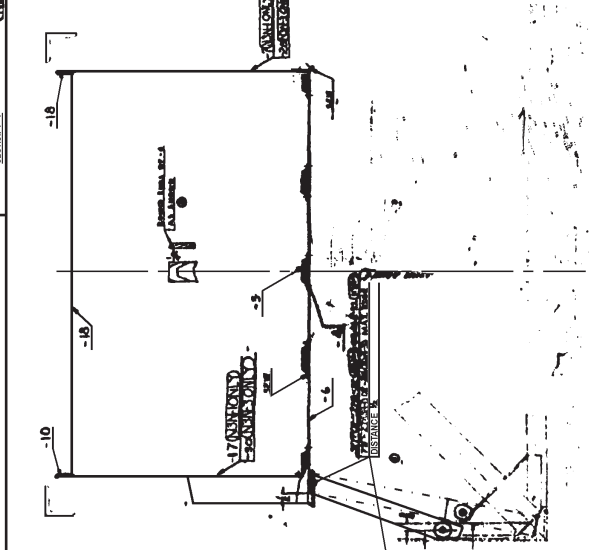
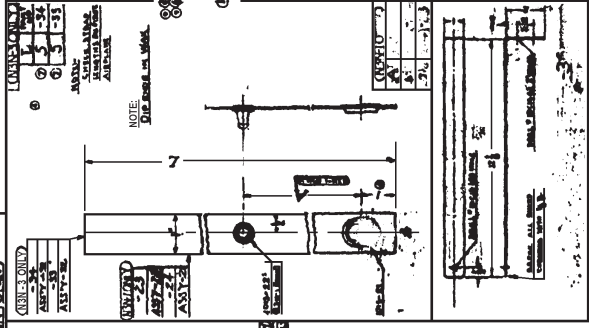


-35 INSTALLATION (N3N-3-ONLY)
-1 INSTALLATION (N3N-1-ONLY)
SCALE: 1/2" = 1'-0"



NOTE
DETAILS A, B & C ARE
FOR SHIPMENTS
EXCEPT WHERE SHOWN

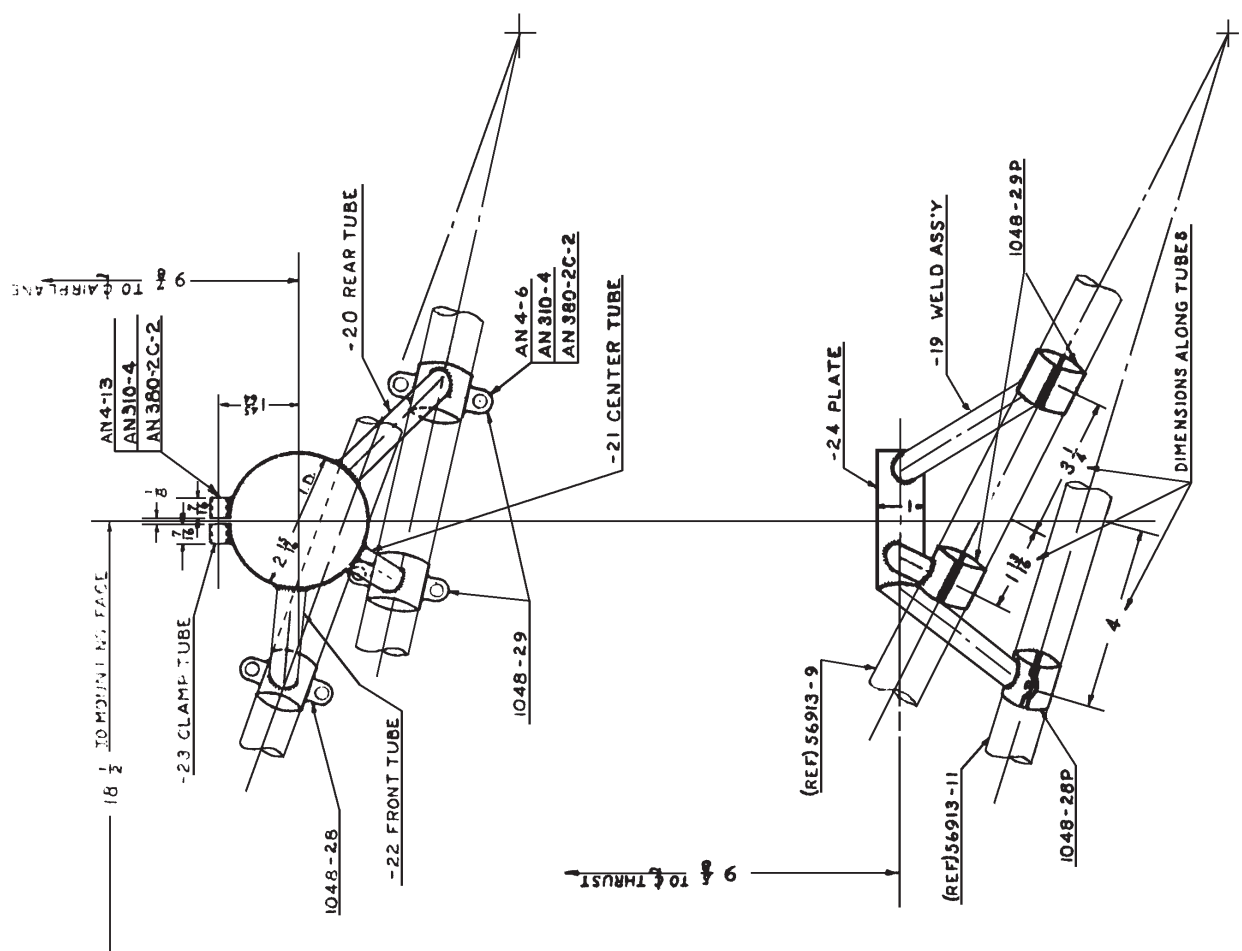
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17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100



-35 INSTALLATION (N3N-3-ONLY)
-1 INSTALLATION (N3N-1-ONLY)
SCALE: 1/2" = 1'-0"

BAGGAGE COMPARTMENT
PARTS LIST
167055

67128-18



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	FINISH (ST.WT.)
1	67128-18	AN4-13	BOLT	STANDARD	
7	67128-18	AN303-2	BOLT PIN		
7	18	AN310-4	NUT		
6	18	AN4-6	BOLT		
2	18	1048-29P	CLAMP-HALF		
2	18	1048-29	CLAMP-HALF		
1	18	1048-28P	CLAMP-HALF		
1	67128-18	1048-28	CLAMP-HALF	STANDARD	
1	67128-19	67128-24	PLATE	.049 ± 1.9 7/16	STEEL A7914
2	18	18	TUBE	1.04058 ± 1/16	STEEL A7914
1	18	18	TUBE	1.04058 ± 1/16	STEEL A7914
1	18	18	TUBE	1.04058 ± 1/16	STEEL A7914
1	18	18	TUBE	1.04058 ± 1/16	STEEL A7914
1	67128-20	67128-21	WELD ASSY.		NORMALIZE
1	67128-20	67128-22	WELD ASSY.		NORMALIZE
N3N-3 --DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ±.010. ANGLES ±1/2. UNLESS OTHERWISE NOTED.					
ALTERNATIONS					
CHECKED					
SUPERVISOR					
STRUCTURE					
CHIEF DRAFT.					
PROJ. ENG.					
MKT. EST. MGR.					
APPROVAL					
SUPERSEDED BY				SCALE	
OIL STRAINER - ASSEMBLY				HALF SIZE	
67128-18				NAVY YARD	
PHILADELPHIA				PHILADELPHIA	

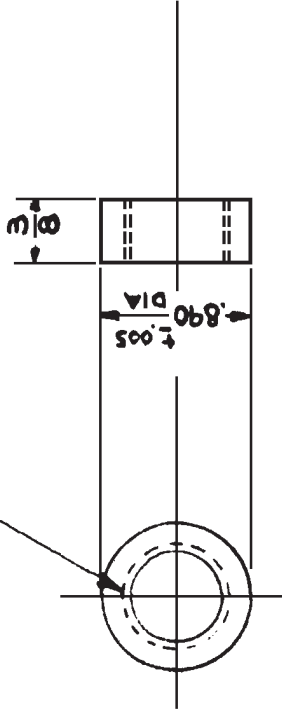
67128-25

67128-25

NOTES:-

1. THREADS TO BE IN ACCORDANCE WITH SPEC. AN-GGG-5-126

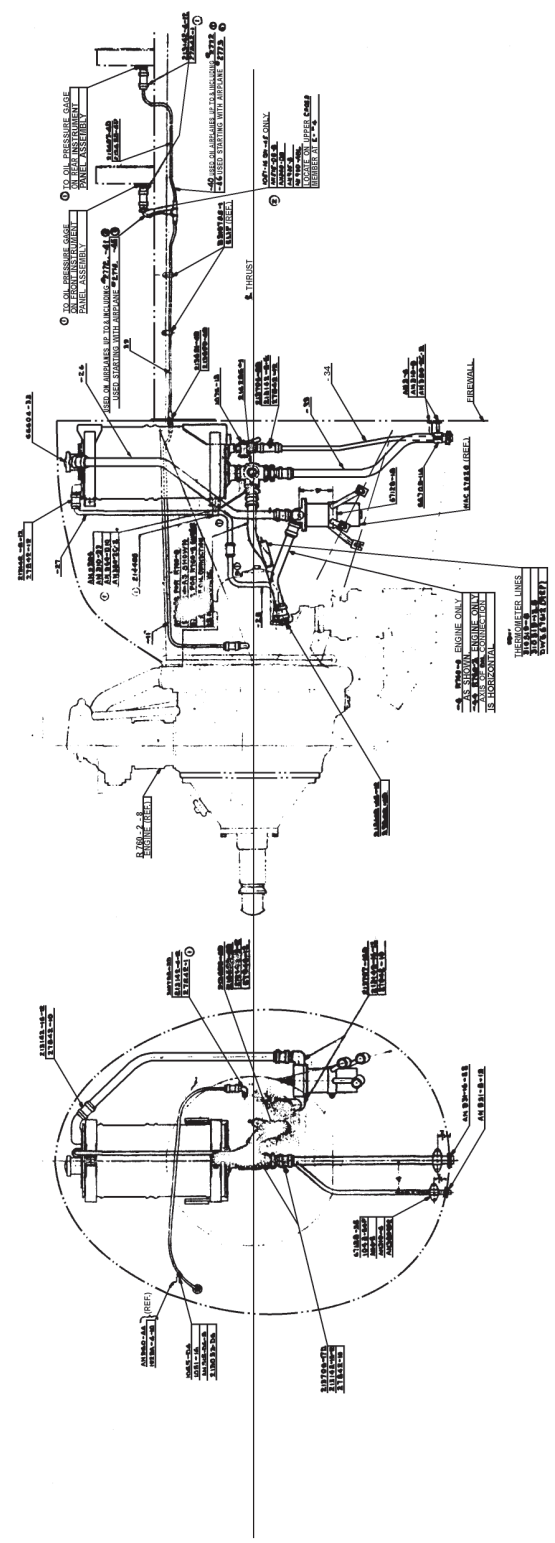
DRILL THRU $\frac{37}{64}$.
TAP $\frac{5}{8}$ -18 NFB



2	67128-32	67128-25	BUSHING	1 DIA X 3/8	AL. AL. 46ALU				
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	U. T. S.	FINISH	EST. WT. ACT. WT.
NON-3									
DIMENSIONS ARE IN INCHES. LIMITS $\pm \frac{1}{64}$ DECIMALS $\pm .010$. ANGLES $\pm \frac{1}{2}^\circ$, UNLESS OTHERWISE NOTED.									
DRAWN TRACED		W.R.E.A		6-20-40		BUSHING			
CHECKED		D. J. R.		6-24-40		THERMOMETER WELL			
SUPERVISOR		D. J. R.				SUPERSEDES			
STRUCTURE						SCALE			
CHIEF DRAFT.		D. J. R.		7-1-40		FULL SIZE			
PROJ. ENG.		H. R. A.		7-1-40		REF. DRAWING NO.			
ASST. CHIEF ENG.		H. R. A.		7-1-40		67128-25			
APPROVAL						NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA			

NOTES:

1. METAL OIL SYSTEM IN ACCORDANCE WITH SPECIFICATIONS.
2. OIL SYSTEM TO BE ACCORDANCE WITH SPECIFICATIONS.
3. OIL SYSTEM TO BE ACCORDANCE WITH SPECIFICATIONS.
4. OIL SYSTEM TO BE ACCORDANCE WITH SPECIFICATIONS.
5. OIL SYSTEM TO BE ACCORDANCE WITH SPECIFICATIONS.
6. OIL SYSTEM TO BE ACCORDANCE WITH SPECIFICATIONS.
7. OIL SYSTEM TO BE ACCORDANCE WITH SPECIFICATIONS.
8. OIL SYSTEM TO BE ACCORDANCE WITH SPECIFICATIONS.
9. OIL SYSTEM TO BE ACCORDANCE WITH SPECIFICATIONS.
10. OIL SYSTEM TO BE ACCORDANCE WITH SPECIFICATIONS.



ITEM NO.	DESCRIPTION	QTY	UNIT	REMARKS
1
2
3
4
5
6
7
8
9
10

OIL SYSTEM ASSEMBLY

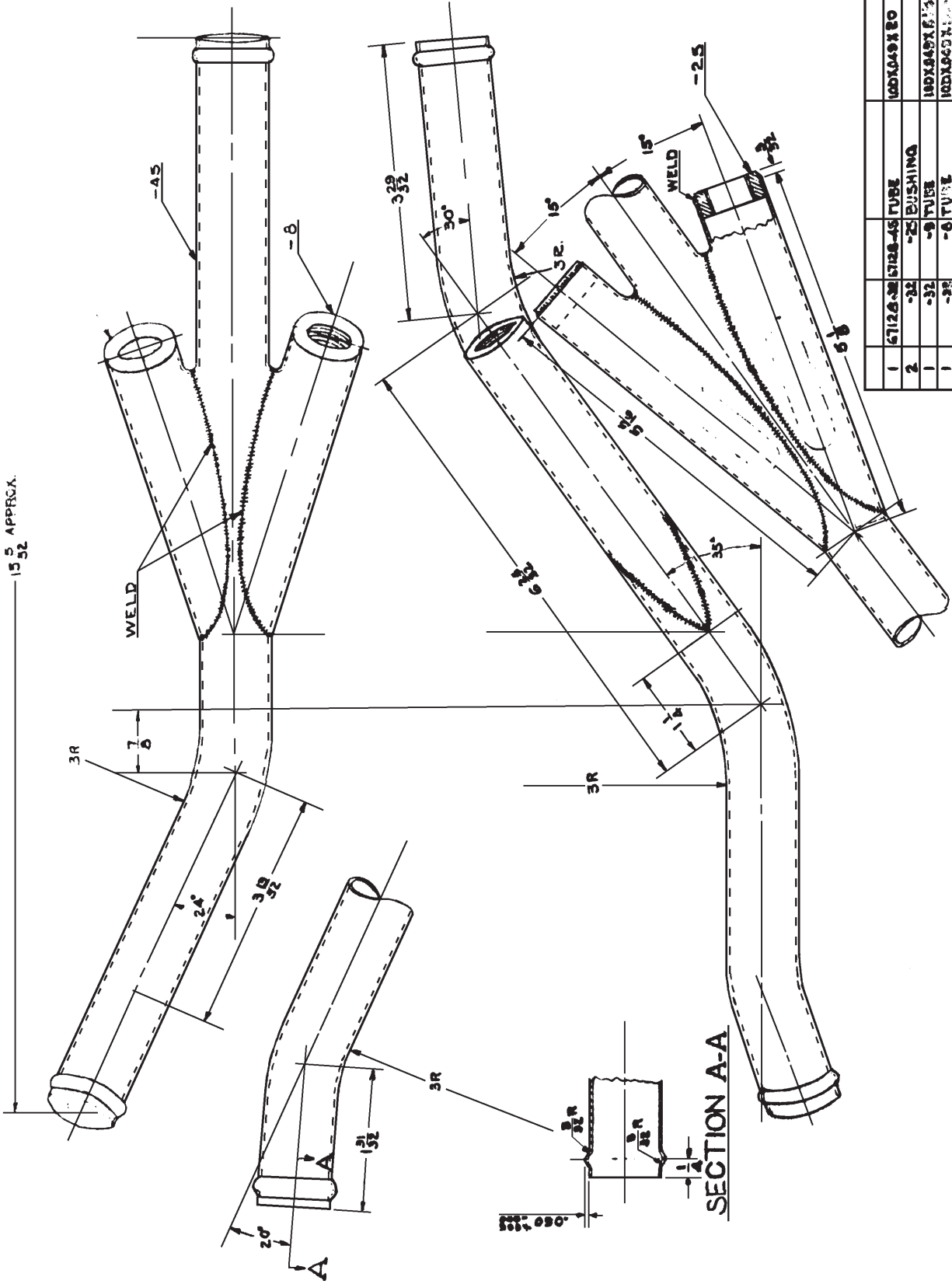
6728-30

...

15.5 APPROX.

NOTES:-

- OIL LINES PAINTED IN ACCORDANCE WITH SPEC PF-1-86 AND MARKED SPEC SR-2A D6

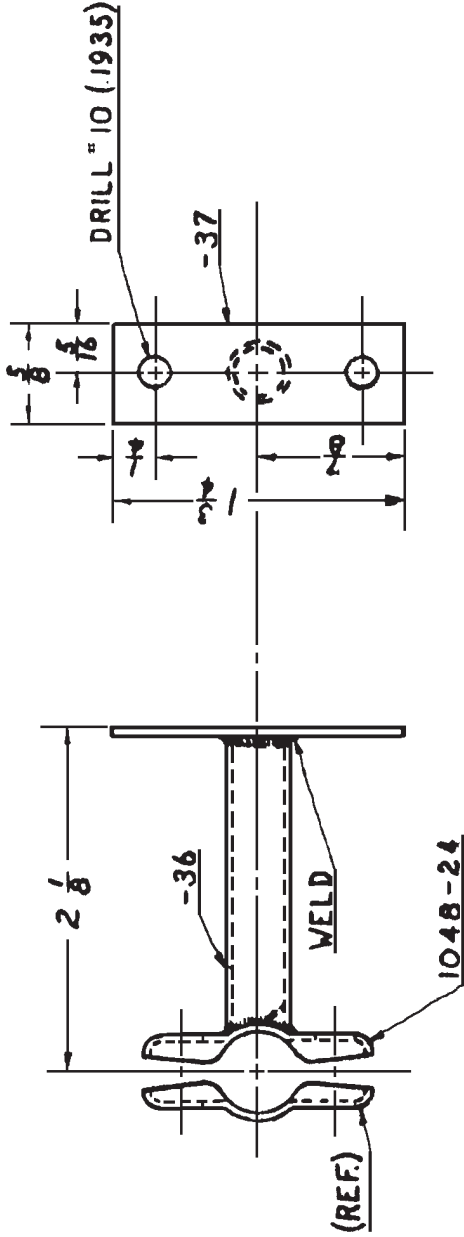


NO. REQ.	ASSEMBLY	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT.	FINISH	EXT. W/ACT. W/
1	67128-32	67128-32	WELL ASSEMBLY		100X149X 80				
2	-32	-32	BUSHING		100X149X 80				
1	-32	-32	TUBE		100X149X 80				
1	-32	-32	TUBE		100X149X 80				
1	67128-32	67128-32	WELL ASSEMBLY						

DESIGNED FOR		DIMENSIONS ARE IN INCHES, LIMITS ± .005	
CHECKED	DATE	CHECKED	DATE
SUPERVISOR		SUPERVISOR	
STRUCTURE		STRUCTURE	
CHIEF DRAFT.		CHIEF DRAFT.	
PROJ. ENG.		PROJ. ENG.	
INST. ENGINEER		INST. ENGINEER	
APPROVAL		APPROVAL	
ALTERATIONS			
WELL			
OIL SYSTEM - THERMOMETER			
SUPERSEDED BY			
SCALE	FULL SIZE	REF. DRAWING NO.	67128-32
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA			

67128-35

Order 7/11/40

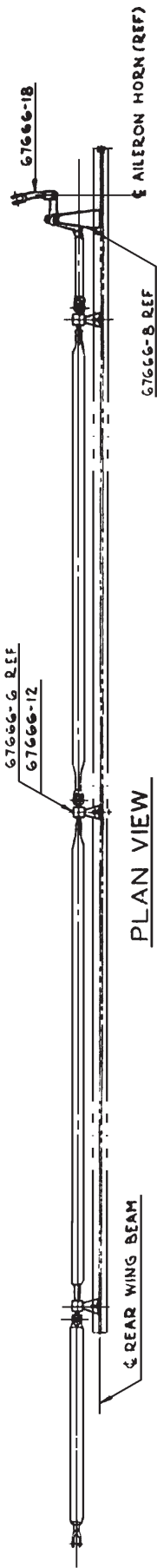


NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
1	67128-35	1048-24	CLAMP HALF	STD.							
1	67128-35	67128-37	PLATE	.049 x 5/8 x 1 1/4	STEEL	47S14					
1	67128-35	67128-36	TUBE	3/8 OD x .035 x 2	STEEL	44T10					
1	67128-30	67128-35	SUPPORT ASS'Y	NORMALIZE			PH-51095000	PF-1-20		.1	
N3N-3 DIMENSIONS ARE IN INCHES. LIMITS ± 1/52 DECIMALS ± .010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.											
DRAWN TRACED			Daly			6-13-40			SUPPORT SUMP - DRAIN TUBE - ASSEMBLY SUPERSEDED BY SCALE 67128-35 REF. DRAWING NO. NAVAL AIRCRAFT FACTORY PHILADELPHIA		
CHECKED			W. REA			6-17-40					
SUPERVISOR			<i>Paul</i>			6-24-40					
STRUCTURE											
CHIEF DRAFT.			<i>Whitely</i>			6-26-40					
PROJ. ENG.			<i>Blair</i>			7-1-40					
ASST. CH'F. ENG.			<i>AKP-31</i>			7-2-40					
APPROVAL											

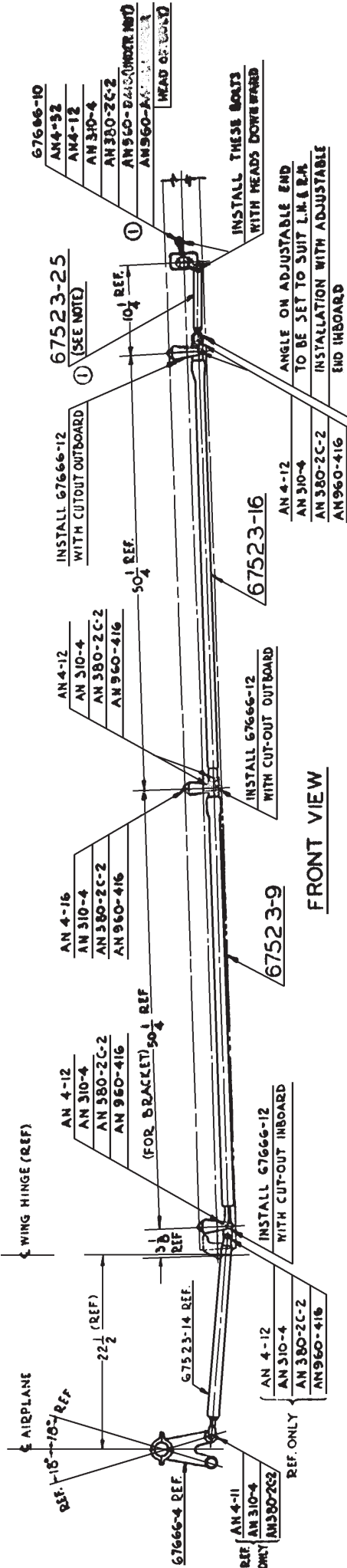
67523-1

i.d. E. J. ...

NOTE
 1 67523-25 USED STARTING WITH AIRPLANE 1923
 67523-18 2-23 USED ON AIRPLANE 1789 TO 1808 INCL. AND 1908 TO 1962 INCL.



PLAN VIEW



FRONT VIEW

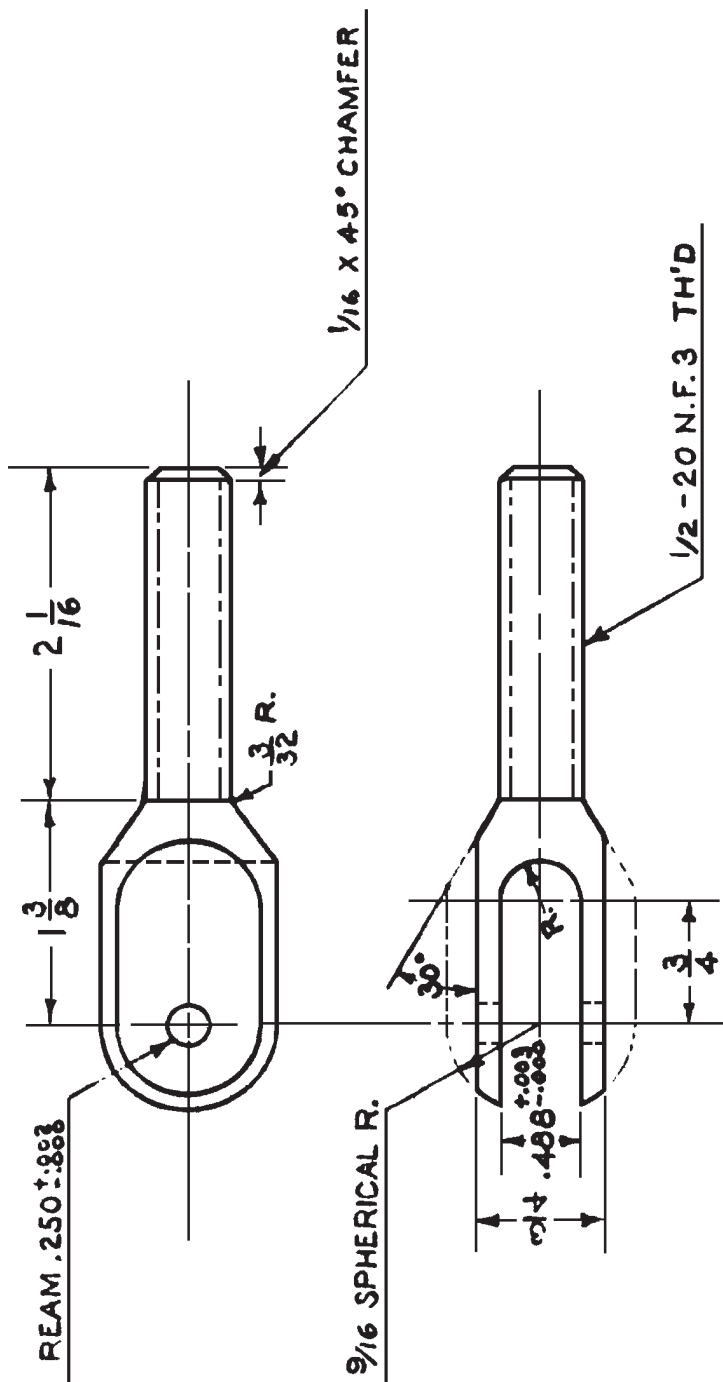
-1L.H. SHOWN
 -2RH OPPOSITE

NO.	REQ.	ASSEM.	PART NO.	NAME	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT.	ACTWT.																																
67523	1	AN 960-416	WASHER																																							
		AN 380-2C-2	COTTER																																							
		AN 310-4	NUT																																							
		AN 4-12	BOLT																																							
		AN 4-16	BOLT																																							
		AN 4-32	BOLT																																							
		67666-18	LINK ASSEM.																																							
		67666-12	IDLER																																							
		67666-10	BELL-CRANK																																							
		67523-25	TUBE ASSEM.																																							
		67523-3	TUBE ASSEM.																																							
1		68193-2	AILERON CONTROL RM (OPPOSITE)																																							
		67523-1	AILERON CONTROL RM (SHOWN)																																							
N3N-3																																										
-DESIGNED FOR DIMENSIONS ARE IN INCHES UNLESS NOTED																																										
<table border="1"> <thead> <tr> <th>ALTERNATIONS</th> <th>SCALE</th> <th>DRAWN</th> <th>CHECKED</th> <th>DATE</th> <th>BY</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>											ALTERNATIONS	SCALE	DRAWN	CHECKED	DATE	BY	BY	DATE																								
ALTERNATIONS	SCALE	DRAWN	CHECKED	DATE	BY	BY	DATE																																			

CONTROLS - AILERON	
INSTALLATION	
SUPERSEDED BY	
SCALE	SUPPLEMENTARY
67523-1	
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA	

67523-3

A 75 6/20/40.



W	1	67523-14	67523-3	TERMINAL	1/8 DIA. X 4	STEEL	44523 PH-5-10	125000	PF-42	.3
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	MT. T.	U.T.S.	FINISH	EST. WT. ACT. WT.
N3N-3			DIMENSIONS ARE IN INCHES, LIMITS ±							
← DESIGNED FOR			LIPPEL 11-1-39							
DRAWN			80 Chamber 57-40							
TRACED			SUPERVISOR 5-21-40 6-12-40							
CHECKED			STRUCTURE							
SUPERVISOR			CHIEF DRAFT. 6-10-40							
STRUCTURE			PROJ. ENG. 6-10-40							
CHIEF DRAFT.			ASST. CNF. ENG. 6-20-40							
PROJ. ENG.			APPROVAL							
ASST. CNF. ENG.			SUPERSEDED BY 67523-3A.I.C							
APPROVAL			SCALE FULL SIZE							
			NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA							

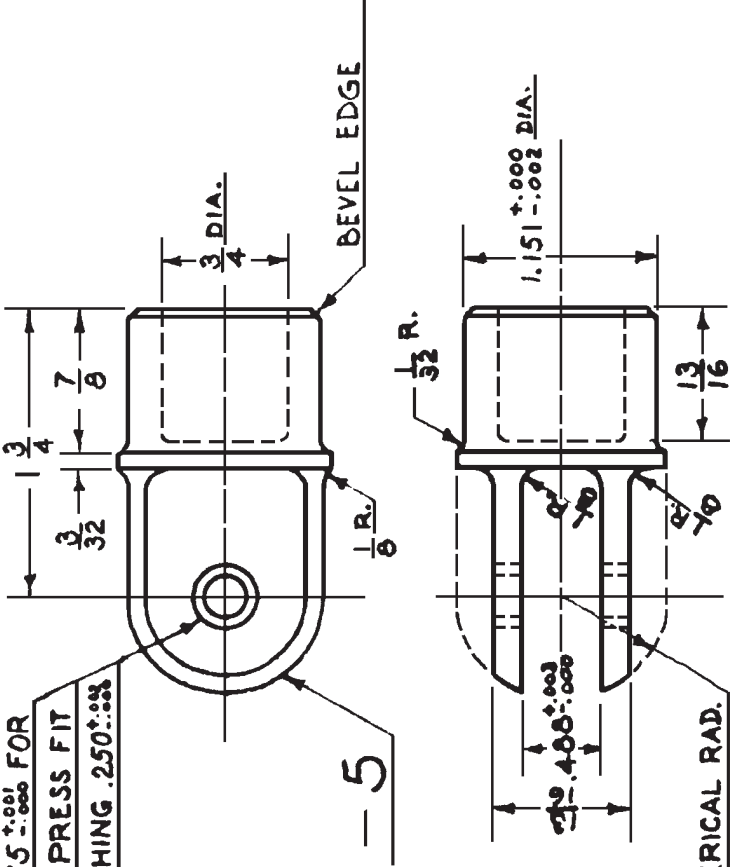
TERMINAL AILERON CONTROL
1/2 TH'D - ADJUSTABLE-DETAIL

67523-3
NAVAL AIRCRAFT FACTORY PHILADELPHIA

67523-4

a 20 6/20/40.

REAM .375 $\pm .001$ FOR
 1066-4-10 PRESS FIT
 REAM BUSHING .250 $\pm .002$

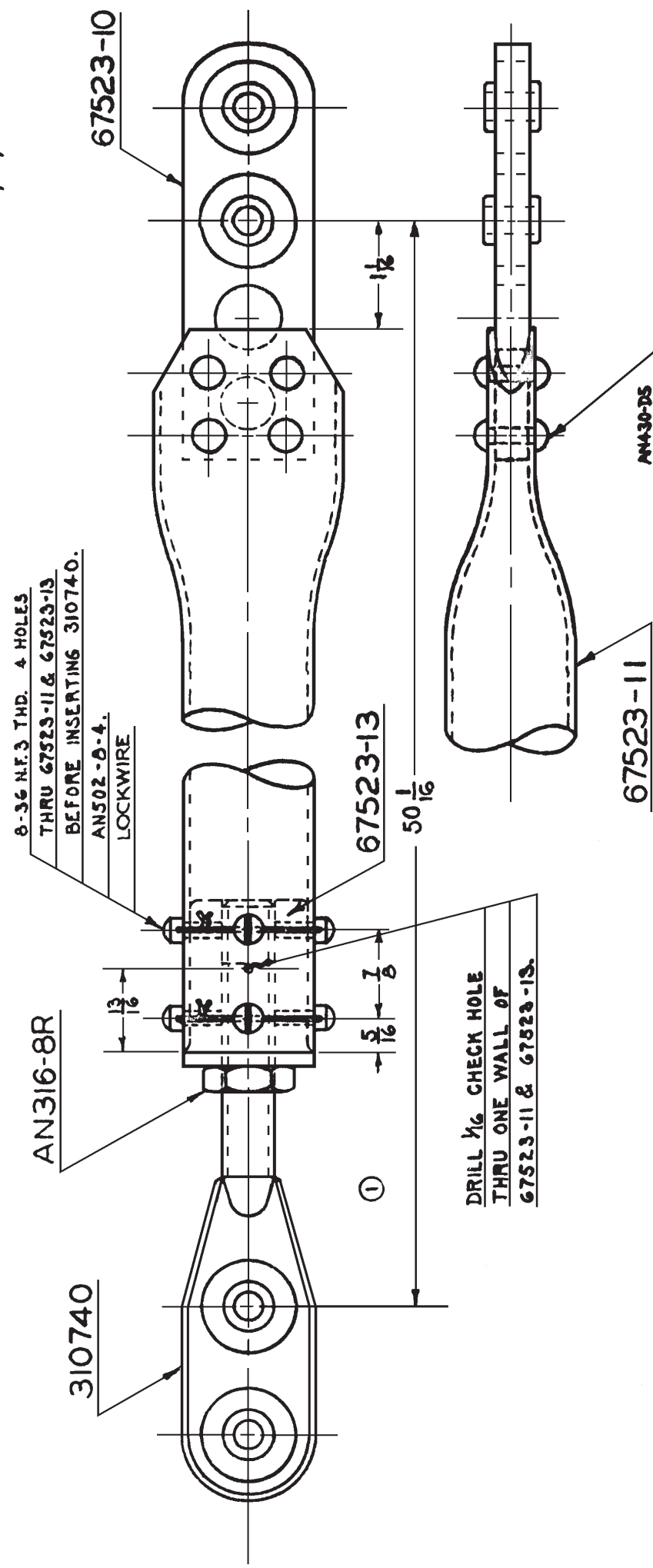


2	67523-4	1066-4-10	BUSHING	ST'D.																	
1	67523-4	67523-5	TERMINAL	1 1/4 DIA. x 2 3/8 ALUM.	46A9	SR-53	62000														
1	67523-4	67523-4	TERMINAL ASSEM																	PF 1-41 .1	
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.	DIMENSIONS ARE IN INCHES. LIMITS $\pm 1/64$ DECIMALS $\pm .010$, ANGLES $\pm 1/2^\circ$, UNLESS OTHERWISE NOTED.									
N3N-3			DESIGNED FOR	UPPENHOLZ III-1-39																	
			DRAWN	TRACED																	
			CHECKED	6/10/40																	
			SUPERVISOR	6-12-40																	
			STRUCTURE																		
			CHIEF DRAFT.	6-18-40																	
			PROJ. ENG.	6-20-40																	
			ASST. EN'G.	6-20-40																	
			APPROVAL																		
				ALTERNATIONS																	
				SUPERSEDED BY	SUPERSEDED 67523-4, A.J.G.																
				SCALE	FULL SIZE																
				REF. DRAWING NO.	67523-4																
				NAVY YARD	NAVAL AIRCRAFT FACTORY PHILADELPHIA																

TERMINAL AILERON CONTROL
 1/4 DIA. TUBE ASSEMBLY

67523-9

Rev 6/20/40.



8	67523-9	AN502-B-4	FILL HD. MACH SCR	STD.
4	67523-9	AN430-DS	RIVET	STD.
1	67523-9	AN316-8R	CHECK NUT	STD.
1	67523-9	310740	TERMINAL	STD.
2	67523-9	LOCKWIRE	.040DIA. #6	STEEL
1	67523-9	67523-9	PLUG	STEEL
1	67523-9	67523-11	TUBE	STEEL
1	67523-9	67523-10	LINK	STEEL
1	67523-9	67523-9	TUBE ASSEMBLY	STEEL
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK
N3N-3				

W

← DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± DECIMALS ±.010, ANGLES ±.4°, UNLESS OTHERWISE NOTED.

DRAWN	
TRACED	
CHECKED	
SUPERVISOR	
STRUCTURE	
CHIEF DRAFT.	
PROJ. ENG.	
TEST. CHT. ENG.	
APPROVAL	

ALTERATIONS

REMOVED

REMOVED

REMOVED

REMOVED

TUBE AILERON CONTROL INBOARD WING PANEL ASSEMBLY

SUPERSEDED BY

SCALE

FULL SIZE

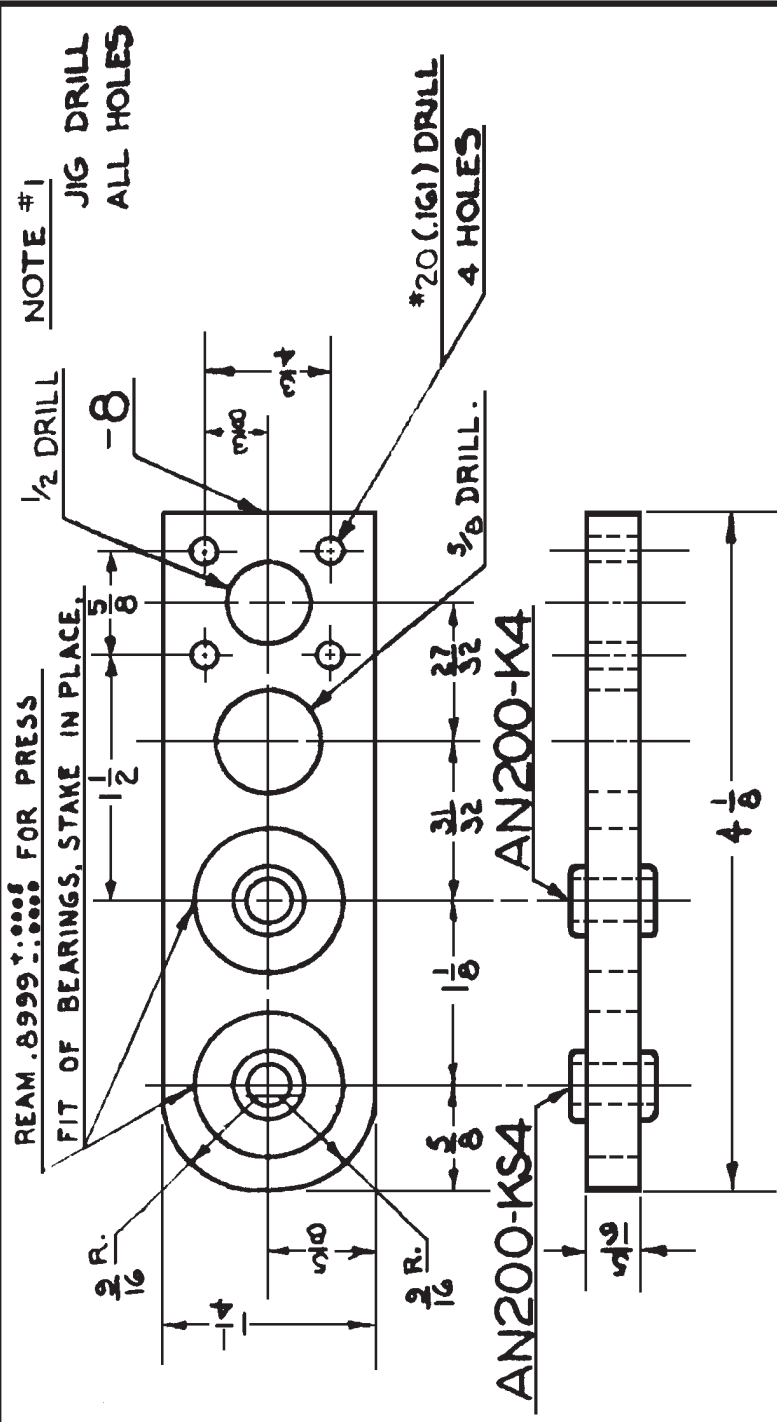
REF. DRAWING NO.

67523-9

NAVAL AIRCRAFT FACTORY PHILADELPHIA

67523-10

Rev. 6/29/40.



NOTE #1

JIG DRILL
ALL HOLES

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
1	67523-10	AN200-KS4	BALL BEARING	STANDARD							
1	67523-10	AN200-K4	BALL BEARING	STANDARD							
1	67523-10	67523-8	LINK	5/16 x 1/4 x 4 1/8	ALUM. ALLOY	47A10	SR-53	62000	PF14		
1	67523-10	67523-10	LINK ASSEMBLY								.2

←DESIGNED FOR DIMENSIONS ARE IN INCHES, LIMITS±

DRAWN TRACED		L. SPENCER 1-2-40	
CHECKED		R. H. 5-17-40	
SUPERVISOR		F. J. 6-11-40	
STRUCTURE			
CHIEF DRAFT.		6-17-40	
PROJ. ENG.		6-17-40	
ASST. CHIEF. ENG.		6-20-40	
APPROVAL			

LINK IDLER

AILERON CONTROL ASSEMBLY

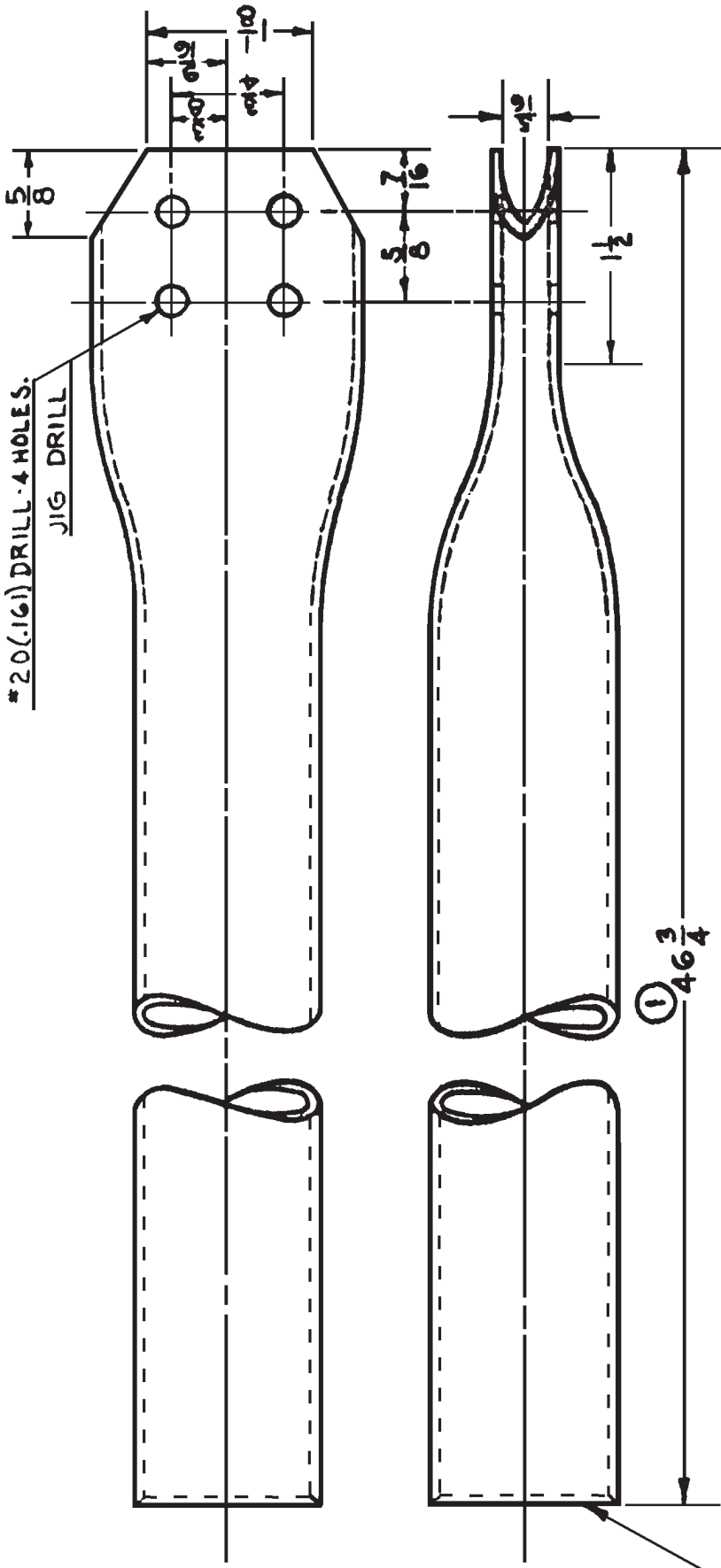
SCALE FULL SIZE

REF. DRAWING NO. 67523-10

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

67523-11

L.S. 6/20/40.

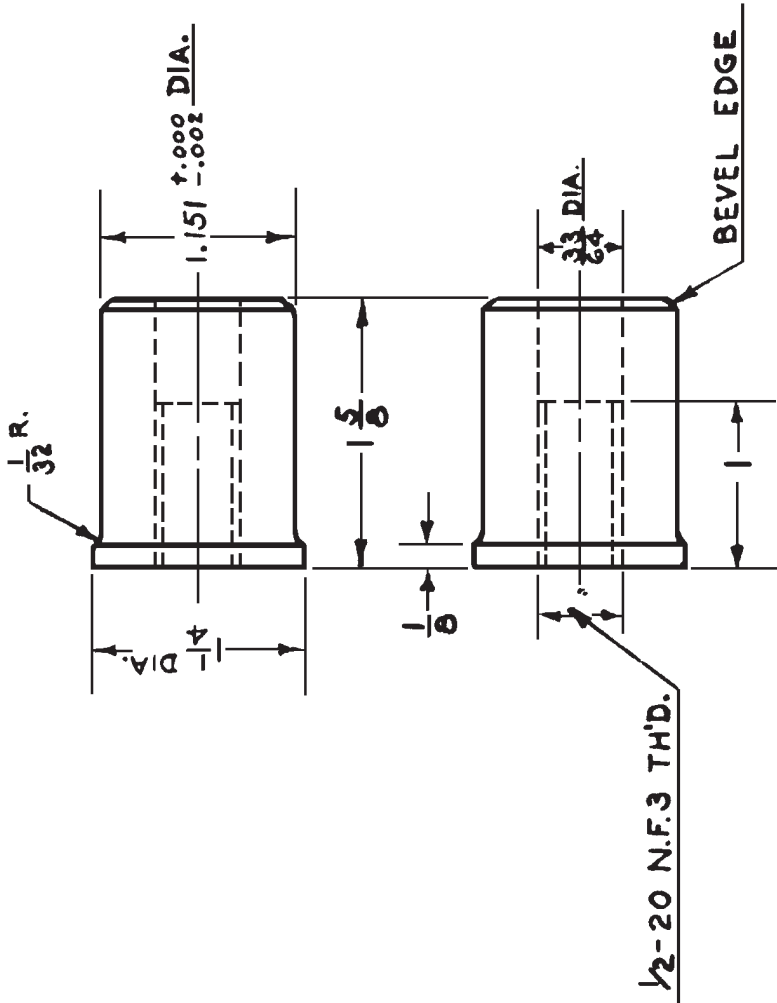


BEVEL EDGE INSIDE

① W	1	67523-967523-11	PART NO.	TUBE	NAME	STOCK	44-128	SR-53	62000	PF 40	.8	
	NO. REQ.	ASSEM.					MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	
	N3N-3						ALLOY			#/SQ. IN.	EST. WT. ACT. WT.	
				← DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± DECIMALS ± .010. ANGLES ± 1/4°. UNLESS OTHERWISE NOTED.								
				ALTERNATIONS								
				① 12-4-40 $46 \frac{1}{2}$ WAS $46 \frac{1}{2}$								
				DRAWN TRACED								
				CHECKED								
				SUPERVISOR								
				STRUCTURE								
				CHIEF DRAFT.								
				PROJ. ENG.								
				ASST. CNF. ENG.								
				APPROVAL								
				TUBE				AILERON CONTROL				
				DECKBOARD WING PANEL				DETAIL				
				SUPERSEDES				67523-11				
				SCALE				REF. DRAWING NO.				
				FULL SIZE				NAVAL AIRCRAFT FACTORY PHILADELPHIA				

67523-13

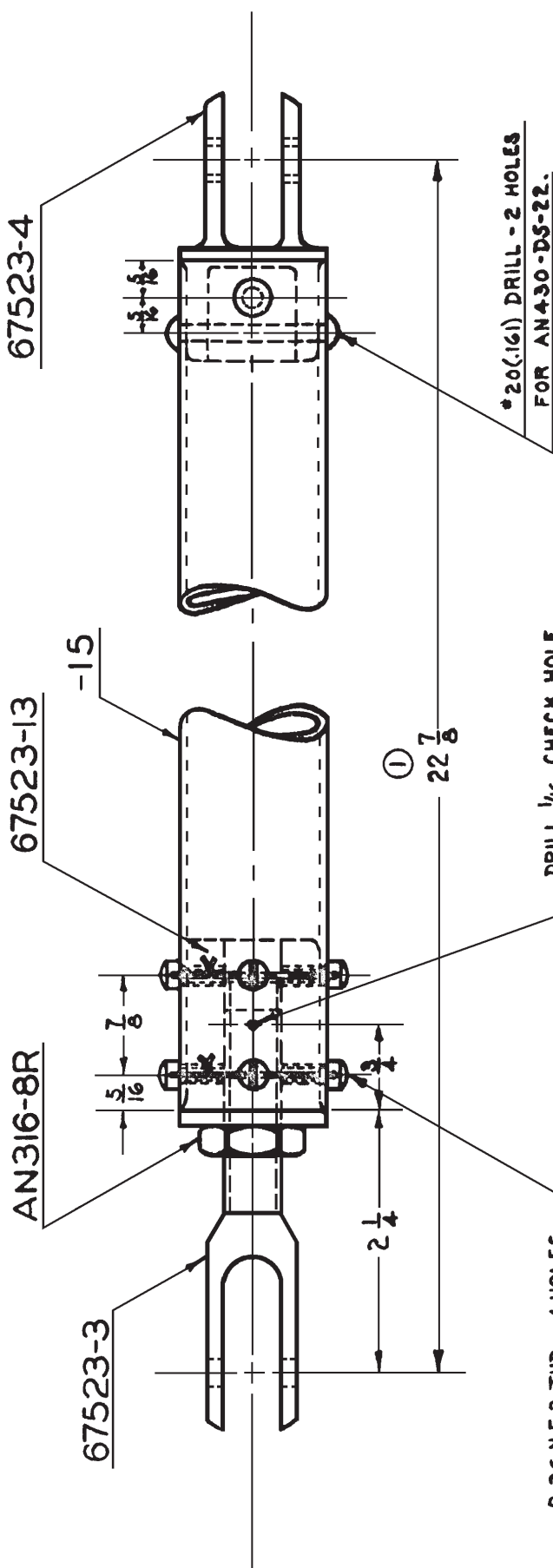
92 6/20/40.



1	67523-13	67523-13	PLUG	1/4 DIA. x 1 5/8	ALUM. ALLOY	46A9 SR-53	62000	PF 1-40	.1
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT. ACT. WT.
NSN-5									
DESIGNED FOR			DIMENSIONS ARE IN INCHES. LIMITS ±						
ALTERNATIONS			DRAWN	LIPPEN	11-2-39	PLUG AILERON CONTROL			
			TRACED			DETAILS			
			CHECKED	W. J. [Signature]	6-12-40	1/4 DIA. TUBE			
			SUPERVISOR			SUPERSEDED BY 67523-13A16			
			STRUCTURE			SCALE FULL SIZE			
			CHIEF DRAFT.	[Signature]	6-10-40	REF. DRAWING NO. 67523-13			
			PROJ. ENG.	[Signature]	6-10-40	NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA			
			ASST. CH'F. ENG.	[Signature]	6-20-40				
			APPROVAL						

67523-14

L. de 6/20/40.



DRILL 1/16 CHECK HOLE
THRU ONE WALL OF
67523-15 & 67523-13.

8-36 N.F.3 THD. 4 HOLES
THRU 67523-15 & 67523-13
BEFORE INSERTING
67523-3.
AN502-6-4.
LOCKWIRE

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
2	67523-14		LOCKWIRE	.040 DIA. x 6	STEEL	22 W/3 COND.					
6	67523-14	AN502-6-4	FILL HD. MACH. SCREW	STD.							
2	67523-14	AN430-D5-22	RIVET	STD.							
1	67523-14	AN316-8R	CHECK NUT	STD.							
1	67523-14	67523-15	TUBE	1 1/4 DIA. x .049 IN. ALUM. ALLOY	44728 SR-33	62000					
1	67523-14	67523-13	PLUG								
1	67523-14	67523-4	TERMINAL ASSEM.								
1	67523-14	67523-3	TERMINAL								
2	67646-F	51-14	TUBE ASSEM.								

N3N-3 --DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/32 DECIMALS ± .010 ANGLES ± 1/2° UNLESS OTHERWISE NOTED.

DRAWN	TRACED	CHECKED	SUPERVISOR	STRUCTURE	CHIEF DRAFT.	PROJ. ENG.	ASST. ENGR.	APPROVAL

ALTERATIONS
 1 - 11-5-40
 2 - 15-19 1/2 W/S 21.
 3 - 14-22 3/8 W/S 24 1/2

TUBE FUSELAGE ASSEMBLY

AILERON CONTROL ASSEMBLY

SUPERSEDED BY

SCALE

FULL SIZE

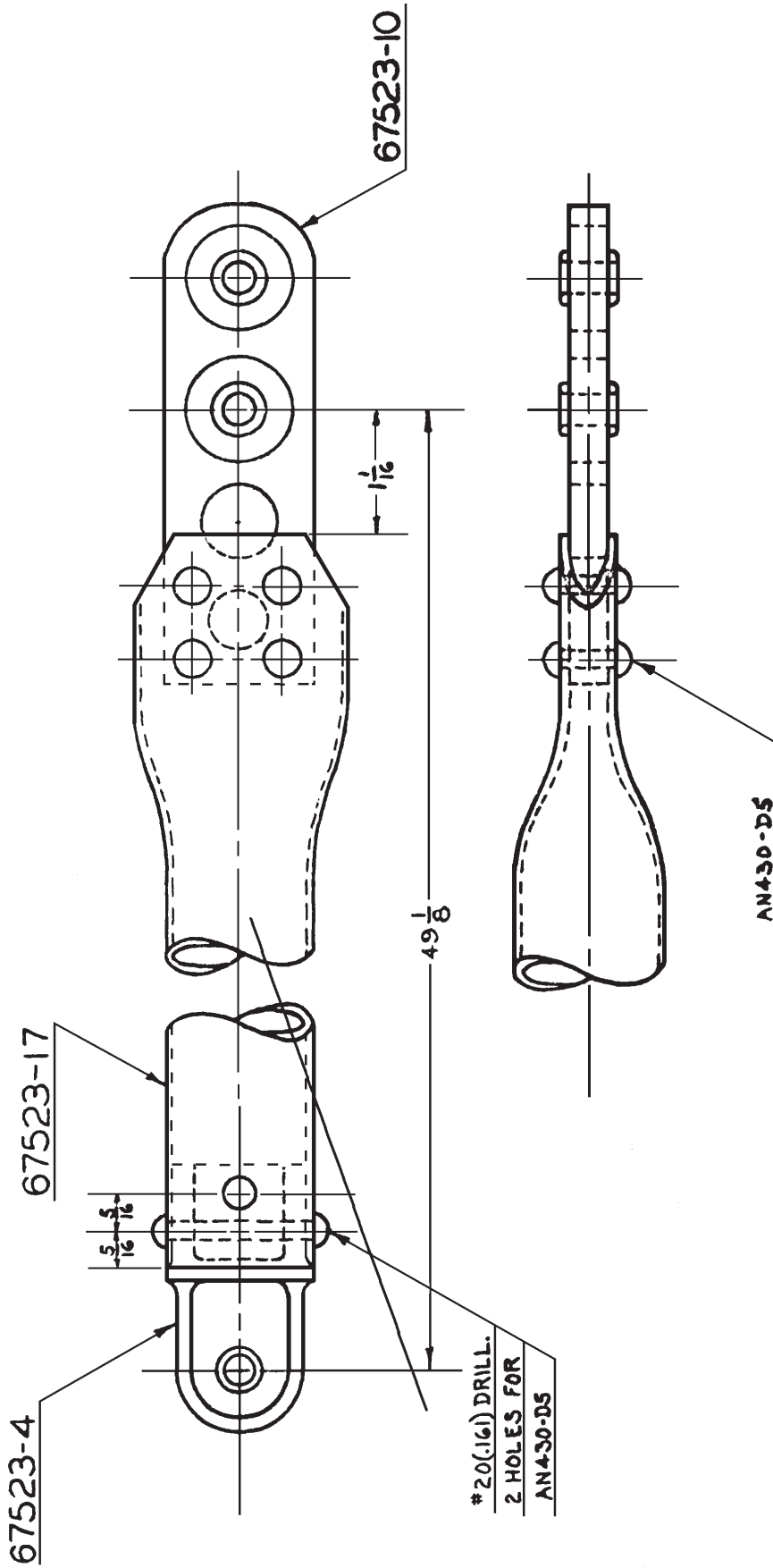
REF. DRAWING NO.

67523-14

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

67523-16

Rev. 12/20/40.



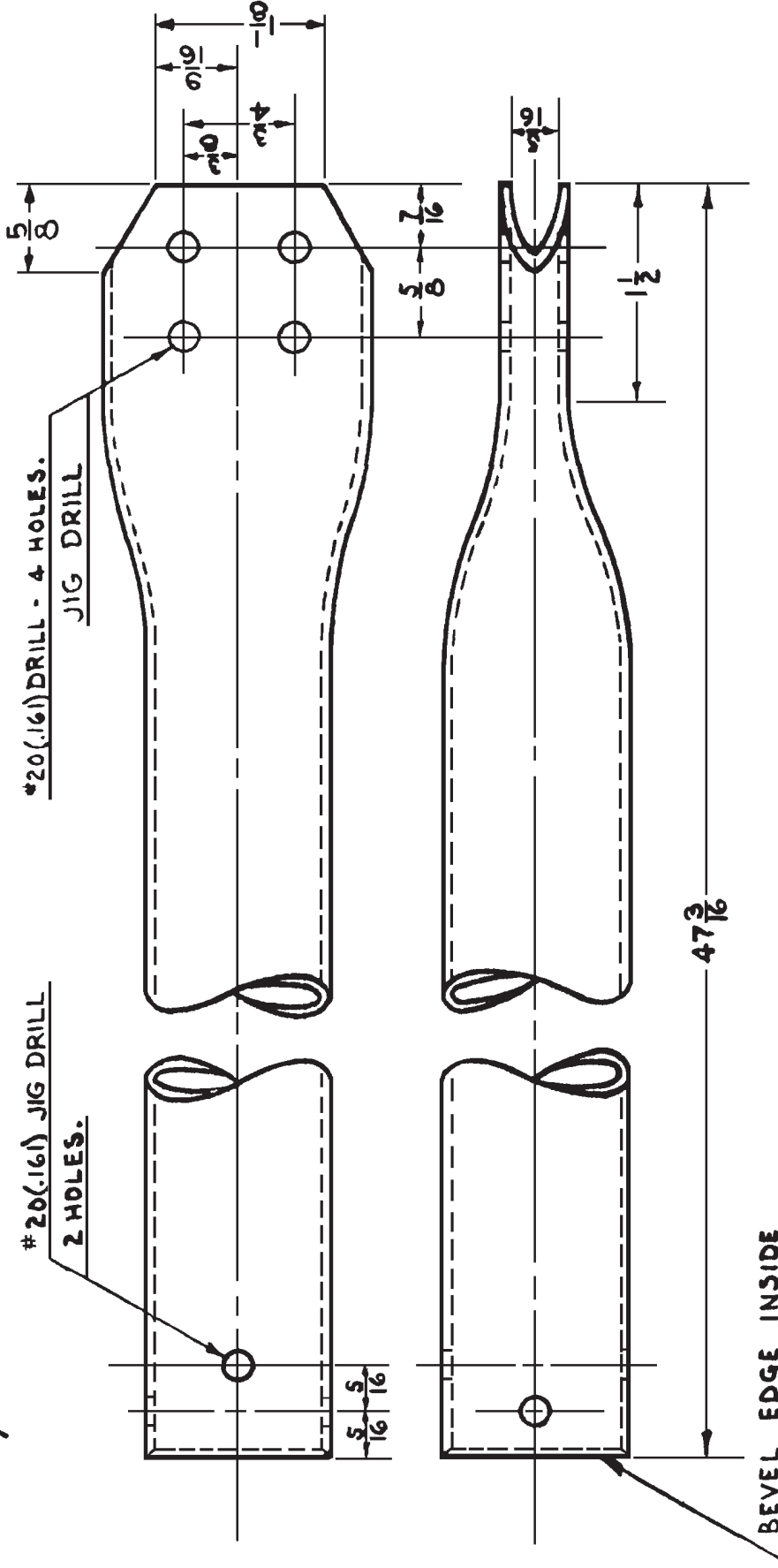
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
6	67523-16	AN430-DS	RIVET	STD.							
1	67523-16	67523-17	TUBE								
1	67523-16	67523-10	LINK								
1	67523-16	67523-4	TERMINAL								
1	67523-16	67523-16	TUBE ASSEMBLY								PT-40 .5

N3N-3		DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS $\pm \frac{1}{64}$ DECIMALS $\pm .010$. ANGLES $\pm \frac{1}{2}^\circ$. UNLESS OTHERWISE NOTED.	
DRAWN	TRACED	UPPER	LOWER	DATE	BY
CHECKED					
SUPERVISOR					
STRUCTURE					
CHIEF DRAFT.					
PROJ. ENG.					
ASST. CHIEF ENG.					
APPROVAL					

TUBE		AILERON CONTROL	
OUTBOARD WING PANEL		ASSEMBLY	
SUPERSEDED BY		SUPERSEDES	
SCALE		REF. DRAWING NO.	67523-16
FULL SIZE		NAVY YARD	NAVAL AIRCRAFT FACTORY PHILADELPHIA

67523-17

Order 6/22/40

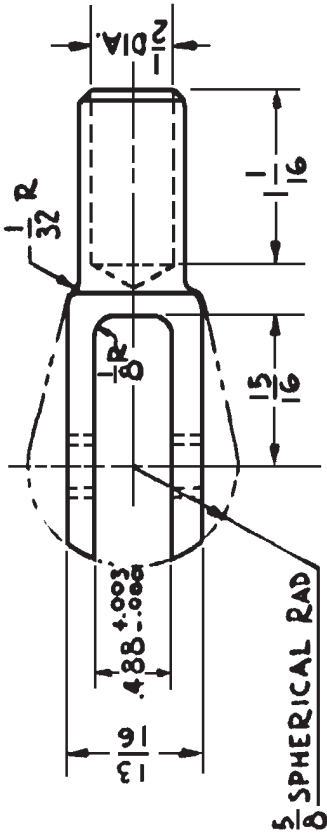
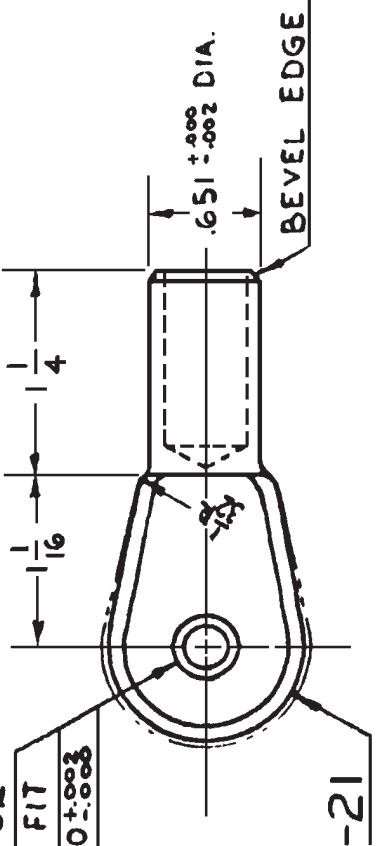


NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
1	67523-16	67523-17	TUBE	1 1/4 O.D. x .049-47 3/16 ALUM.	44T26	SR-53	62000	PF1-40	.6		
DIMENSIONS ARE IN INCHES. LIMITS ± DECIMALS ± .010. ANGLES ± 1/4°. UNLESS OTHERWISE NOTED.											
APPROVALS APPROVAL ASST. CHY. ENG. PROJ. ENG. CHIEF DRAFT. STRUCTURE SUPERVISOR CHECKED DRAWN TRACED			TUBE AILERON CONTROL OUTBOARD WING PANEL DETAIL SUPERSEDED BY SCALE FULL SIZE REF. DRAWING NO. 67523-17 NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA								

67523-22

Order 6/20/40.

REAM .375 ±.001 FOR
1066-4-10 PRESS FIT
REAM BUSHING 6.250 ±.003



2	67523-22	1066-4-10	BUSHING	STD.									
1	67523-22	67523-21	TERMINAL	1/4 DIA x 2 15/16	AL ALLOY	46A9	SR-53	G2000					
1	67523-26	67523-22	TERMINAL ASSEM						FF-4				

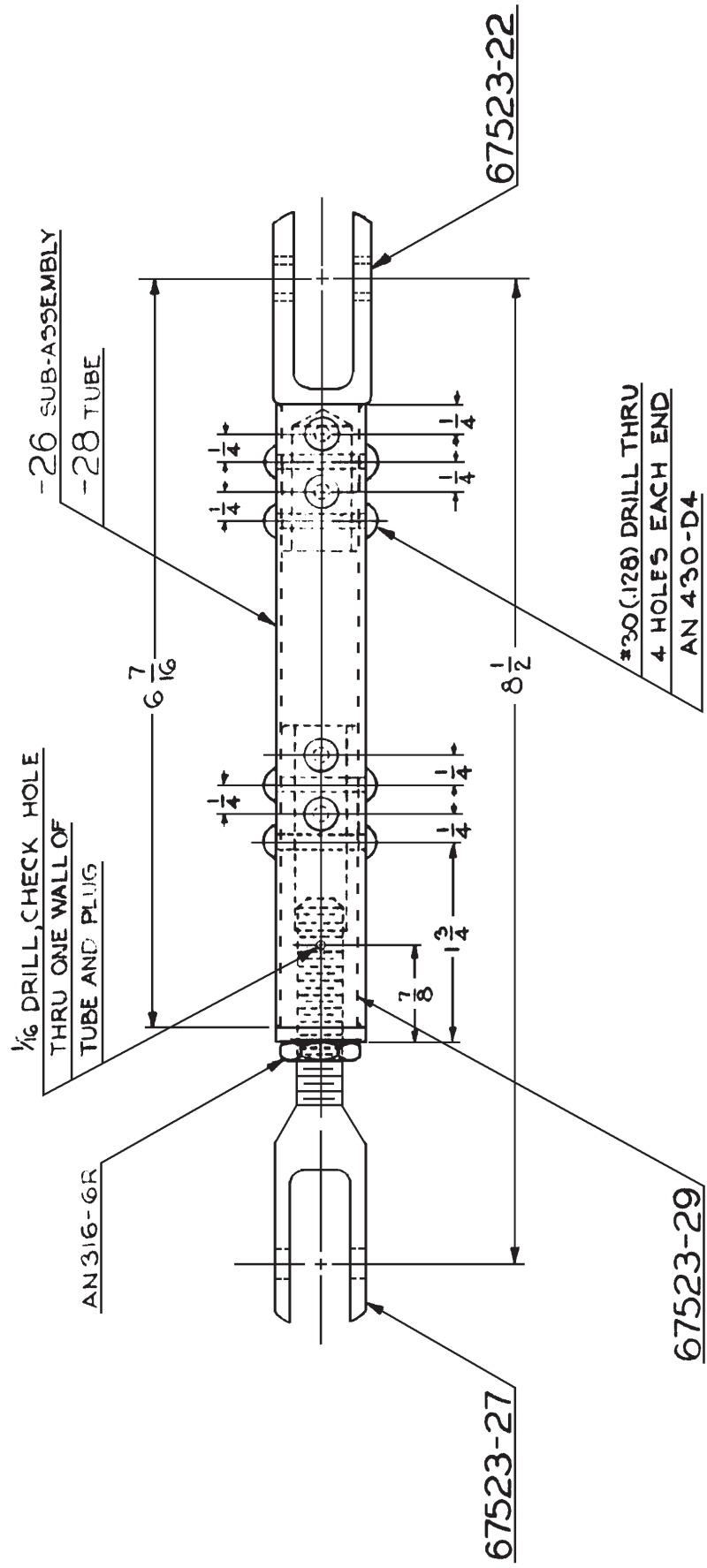
N3N-3 ← DESIGNED FOR												
DIMENSIONS ARE IN INCHES. LIMITS ±												
DRAWN LORENZ 6-6-40												
TRACED												
CHECKED												
SUPERVISOR												
NAME STOCK												
MATERIAL SPEC. HT. T. U.T.S. FINISH EST. WT. ACT. WT.												
DECIMALS ±.010. ANGLES ±1/2°. UNLESS OTHERWISE NOTED.												

TERMINAL-AILERON CONTROL												
3/4 DIA. TUBE — ASSEMBLY												
SUPERSEDED BY												
SCALE												
FULL SIZE												
REF. DRAWING												
67523-22												
SUPERSEDED BY												
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA												

CHIEF DRAFTSMAN
PROJ. ENG.
ASST. CHIEF ENG.
APPROVAL

70 00 1110

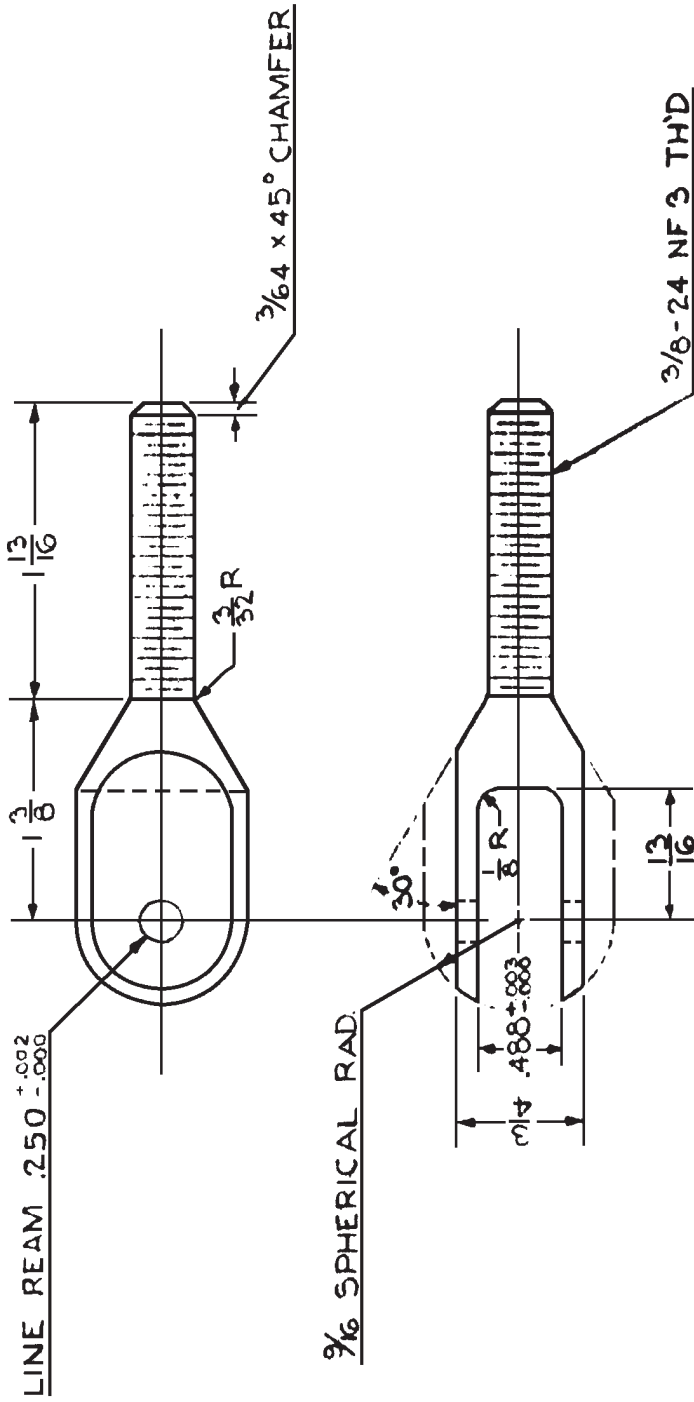
10/16/20/40



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
8	67523-26	AN430-D4	RIVET	STD.							
1	67523-25	AN316-6R	CHECK NUT	STD.							
1	67523-26	67523-29	PLUG								
1	67523-26	67523-28	TUBE		ALUM. ALLOY	447B SR 53	62000				
1	67523-25	67523-27	FORK								
1	67523-26	67523-22	END FITTING								
1	67523-25	67523-26	TUBE SUB-ASSEM.								
1	67523-21	67523-25	TUBE ASSEM.								
N3N-3 --DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.											
DRAWN TRACED			JOBSON			5-16-40			TUBE AILERON CONTROL		
CHECKED			SUPERVISOR			STRUCTURE			ADJUSTABLE ASSEMBLY		
CHIEF DRAFT.			PROJ. ENG.			SET. CNT. ENG.			SUPERSEDED BY		
APPROVAL			APPROVAL			APPROVAL			SCALE FULL SIZE		
									REF. DRAWING		
									67523-25		
									NAVAL AIRCRAFT FACTORY PHILADELPHIA		

67523-27

L. D. 10/20/40



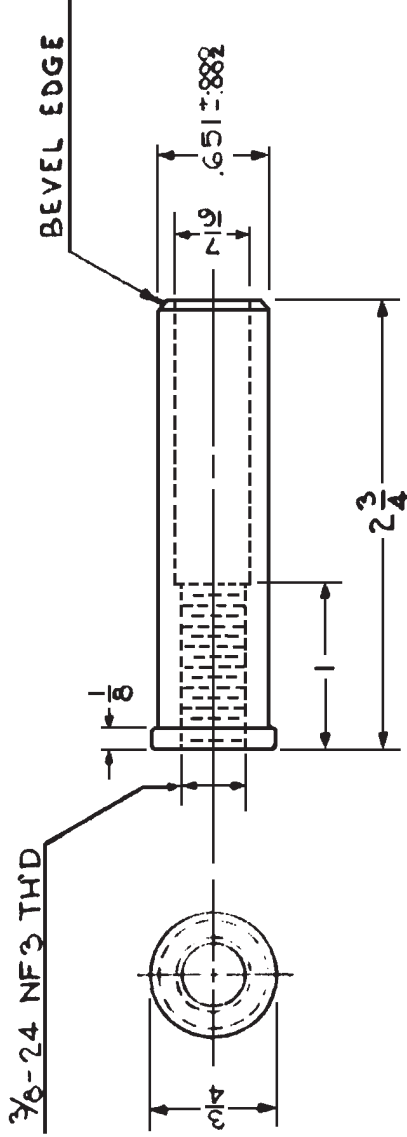
1	67523-25	67523-27	FORK	1 1/8 DIA. x 3 3/4	STEEL	46523 OR A08B	PH5-10	125000	PF142	
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S. #/SQ. IN.	FINISH	EST. WT. ACT. WT.
N3N-3			DIMENSIONS ARE IN INCHES, LIMITS ±							
			ALTERATIONS	JOYSON	5-15-40					
			CHECKED	<i>W. C. ...</i>	6-11-40					
			SUPERVISOR	<i>W. J. ...</i>	6-12-40					
			STRUCTURE							
			CHIEF DRAFT.	<i>W. J. ...</i>	6-12-40					
			PROJ. ENG.	<i>W. J. ...</i>						
			ASST. CH'F. ENG.	<i>W. J. ...</i>	6-20-40					
			APPROVAL	<i>W. J. ...</i>						
				SUPERSEDED BY		67523-27				
				SCALE		FULL SIZE				
				REF. DRAWING		67523-27				
				NAVY YARD		NAVAL AIRCRAFT FACTORY PHILADELPHIA				

FORK — AILERON CONTROL
3/8 TH'D — ADJUSTABLE-DETAIL

67523-29

Lead. 6/20/40

NOTE #1 BREAK ALL SHARP EDGES.

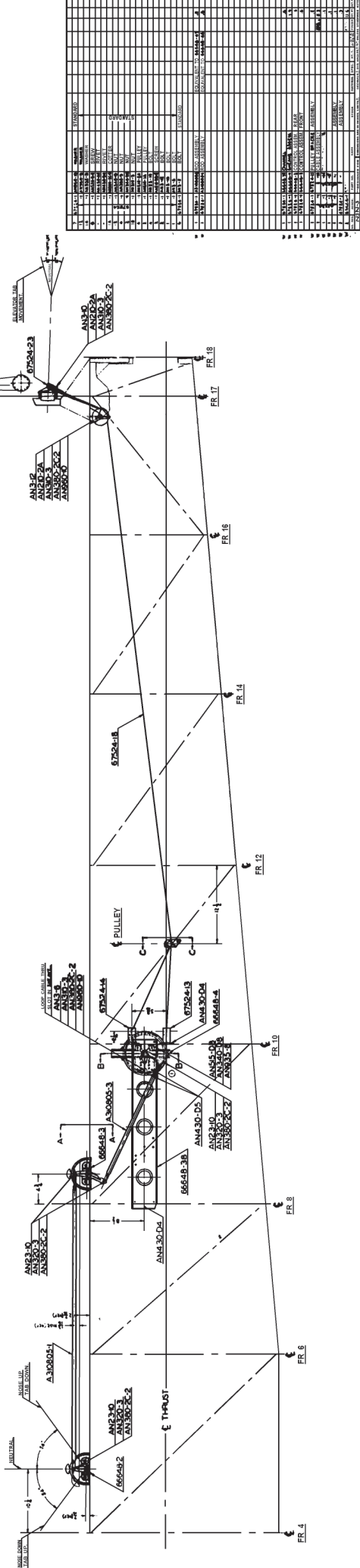
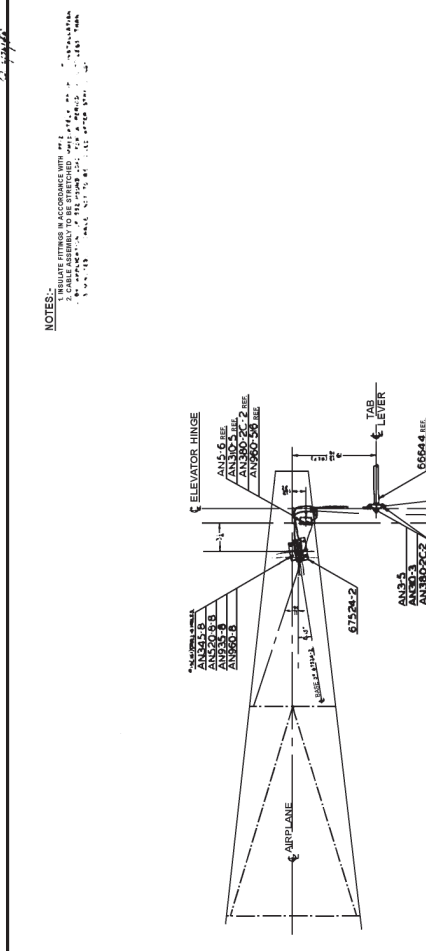
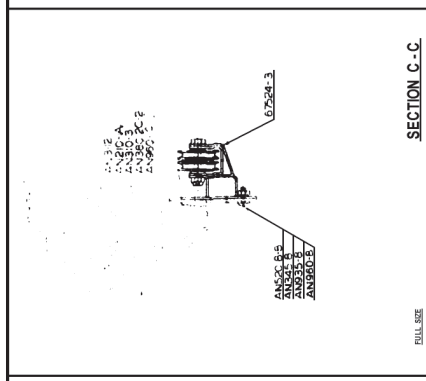
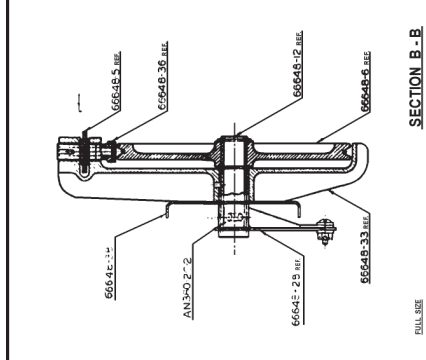
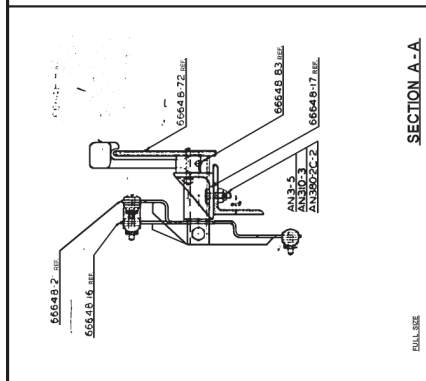


1	67523-26	67523-29	PLUG	3/4 DIA. x 2 3/4	ALUM. ALLOY	46A9	5R53	62000	PFH-40	
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT. ACT. WT.
N3N-3 ←DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ±										
			DRAWN TRACED JOHNSON 5-15-40 CHECKED <i>[Signature]</i> 6-10-40 SUPERVISOR LYL 12-13 6-12-40 STRUCTURE CHIEF DRAFT. <i>[Signature]</i> 6-17-40 PROJ. ENG. <i>[Signature]</i> 6-18-40 ASST. CN'F. ENG. <i>[Signature]</i> 6-20-40 APPROVAL							
			ALTERNATIONS							
PLUG AILERON CONTROL 3/4 DIA. TUBE - ADJUSTABLE - DET.										
SUPERSEDED BY 67523-29 SCALE FULL SIZE REF. DRAWING NO. 67523-29 NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA										

67524-1

NOTES:

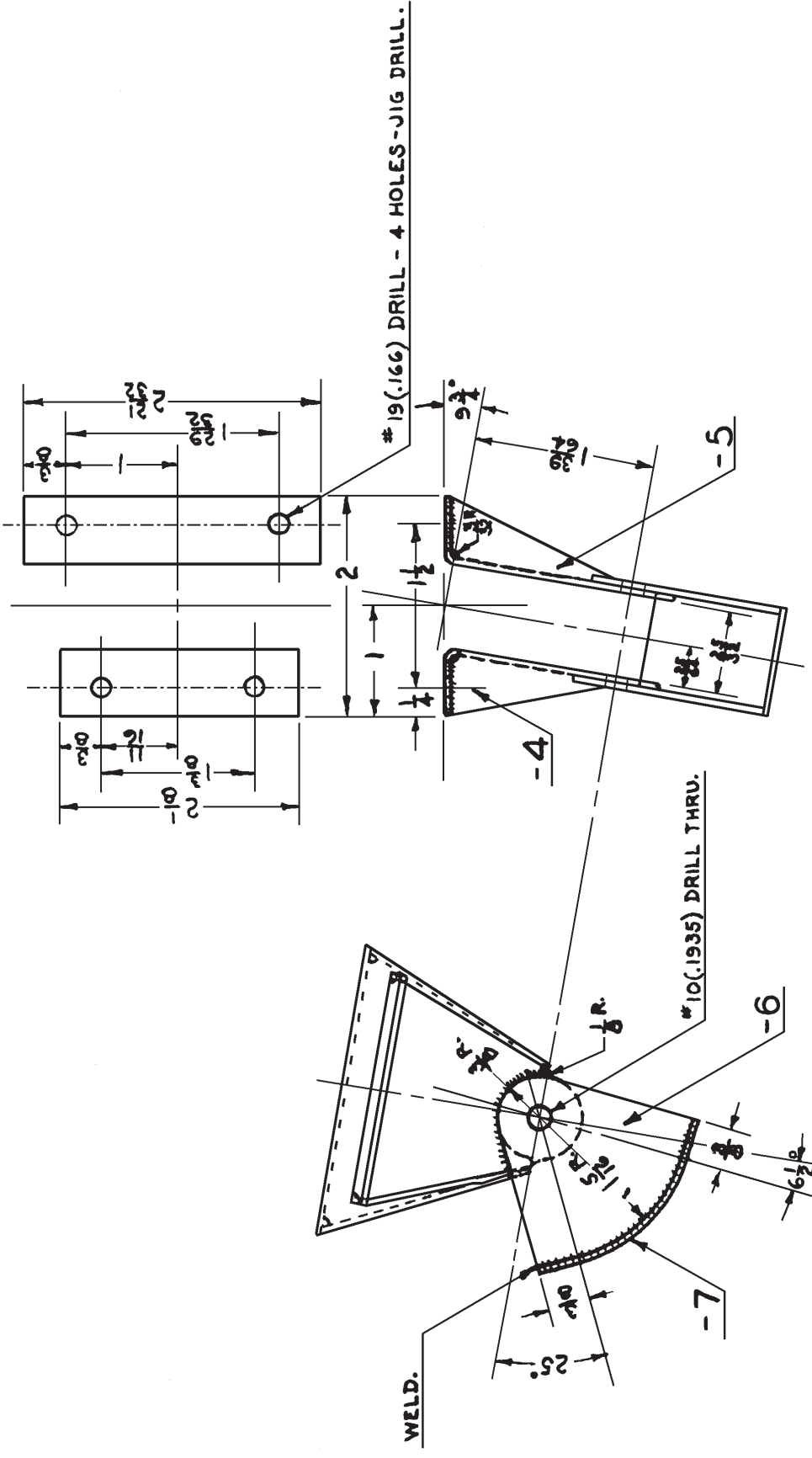
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- 2. INSURE FITTINGS IN ACCORDANCE WITH #12
- 3. INSURE FITTINGS IN ACCORDANCE WITH #13
- 4. INSURE FITTINGS IN ACCORDANCE WITH #14
- 5. INSURE FITTINGS IN ACCORDANCE WITH #15
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- 8. INSURE FITTINGS IN ACCORDANCE WITH #18
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- 87. INSURE FITTINGS IN ACCORDANCE WITH #97
- 88. INSURE FITTINGS IN ACCORDANCE WITH #98
- 89. INSURE FITTINGS IN ACCORDANCE WITH #99
- 90. INSURE FITTINGS IN ACCORDANCE WITH #100



ITEM NO.	DESCRIPTION	QUANTITY	UNIT	REVISION
1	AN13-5	1	EA	1
2	AN13-6	1	EA	1
3	AN13-7	1	EA	1
4	AN13-8	1	EA	1
5	AN13-9	1	EA	1
6	AN13-10	1	EA	1
7	AN13-11	1	EA	1
8	AN13-12	1	EA	1
9	AN13-13	1	EA	1
10	AN13-14	1	EA	1
11	AN13-15	1	EA	1
12	AN13-16	1	EA	1
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15	AN13-19	1	EA	1
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95	AN13-99	1	EA	1
96	AN13-100	1	EA	1

67524-2

Ord. 6/25/50



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.S. FINISH	EST. WT.	ACT. WT.
1	67524-2	67524-7	PLATE		.035 x 1 x 2 1/4	STEEL	47SM			
2	67524-3	67524-6	PLATE		.035 x 1 1/4 x 2	STEEL	47SM			
1	67524-4	67524-5	PLATE		.035 x 2 1/2 x 3 1/2	STEEL	47SM			
1	67524-1	67524-4	PULLEY BRACKET		.035 x 2 1/2 x 3 1/2	STEEL	47SM			
1	67524-1	67524-2	PULLEY BRACKET							
NO. REQ. ASSEM. PART NO. NAME STOCK MATERIAL SPEC. HT. T. U.S. FINISH EST. WT. ACT. WT. N3N-3 --DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS± DECIMALS ±.010. ANGLES ± 1/2° UNLESS OTHERWISE NOTED.										

BRACKET ELEV. TAB C
PULLEY-21200-REAR. WELD

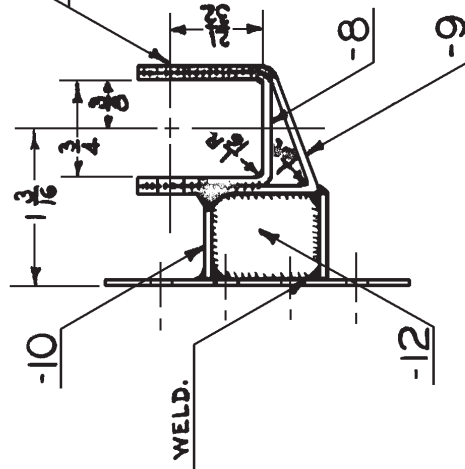
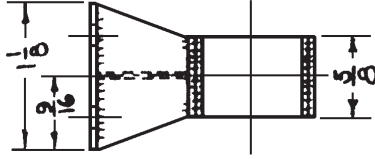
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SCALE FULL SIZE

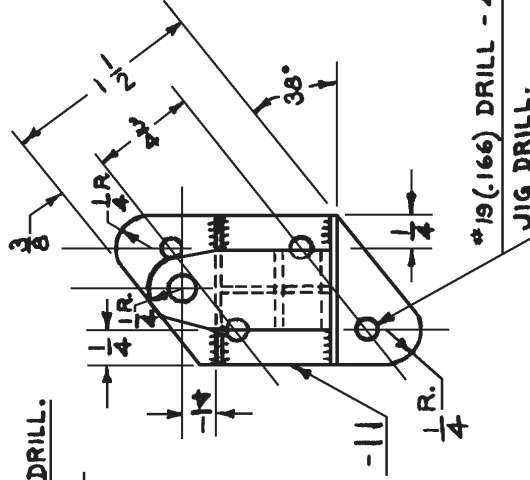
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NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

Rev. 6/24/40



*10 (.1935) DRILL - 2 HOLES.



*19 (.166) DRILL - 4 HOLES.

JIG DRILL.

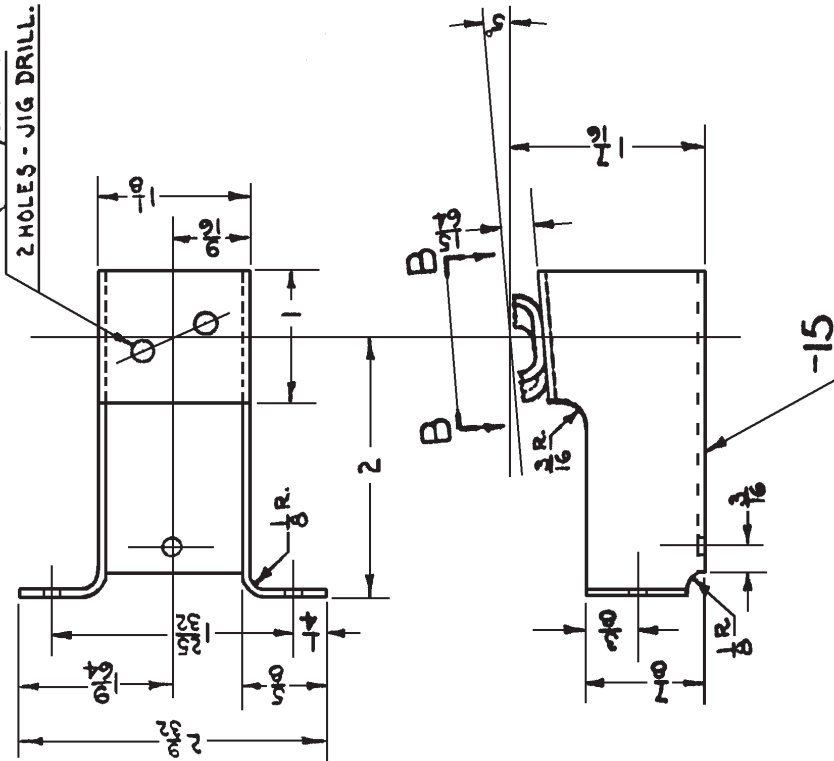
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1	67524-3	67524-12	PLATE		.035 x 1/6 x 3/16	STEEL	47514				
1	67524-3	67524-11	PLATE		.035 x 1/8 x 2 1/4	STEEL	47514				
2	67524-3	67524-10	PLATE		.035 x 3/8 x 1 1/8	STEEL	47514				
1	67524-3	67524-9	PLATE		.029 x 3/8 x 5/16	STEEL	47514				
1	67524-3	67524-6	PLATE		.035 x 5/8 x 2 3/4	STEEL	47514				
1	67524-1	67524-3	PULLEY BRACKET ASS'Y								
											PRS-111111111111 PPH .1
N3N-3				DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ± .010 ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.					
DRAWING TRACED											
CHECKED											
SUPERVISOR											
STRUCTURE											
CHIEF DRAFT											
PROJ. ENG.											
ASST. CHIEF ENG.											
APPROVAL											

BRACKET ELEV. TAB C	67524-3
PULLEY - 1 1/4 O.D.	WELD AS
SUPERSEDED BY	
SCALE	
FULL SIZE	
REF. DRAWING NO.	
NAVY YARD	PHILADELPHIA

67524-13

Ord. 6/26/40.

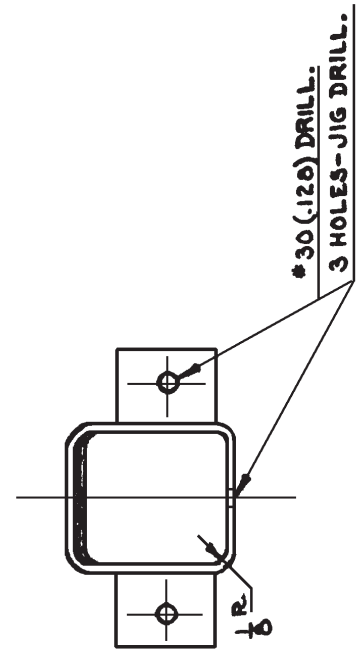
#10 (1695) DRILL.
2 HOLES - JIG DRILL.



FAIRLEAD ASSEM. NO.	LOCATION	ANGLE 'A'
-14		2 1/2°
-13		2 1/2°

- 34371-4 (1122-3)
- ANS20-B-6
- ANS45-B
- ANS35-B
- ANS60-B

VIEW B-B



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
2	67524-1	ANS60-B	WASHER	STANDARD							
2	67524-2	ANS50-B	LOCK WASHER	STANDARD							
2	67524-3	ANS20-BX	SCREW	STANDARD							
2	67524-4	ANS60-C	NUT	STANDARD							
1	67524-5	4311-6	FAIRLEAD (1122-3)	STANDARD	ALUM.	4710SR-98		62000	PF407	.1	.1
1	67524-6	37524-1	FAIRLEAD ASS'Y UPPER								
1	67524-7	67524-1	FAIRLEAD ASS'Y LOWER								
DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010, ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.											
ALTERNATIONS											
DRAWN TRACED											
CHECKED											
SUPERVISOR											
STRUCTURE											
CHIEF DRAFT											
PROJ. ENG.											
ASST. CHIEF ENG.											
APPROVAL											

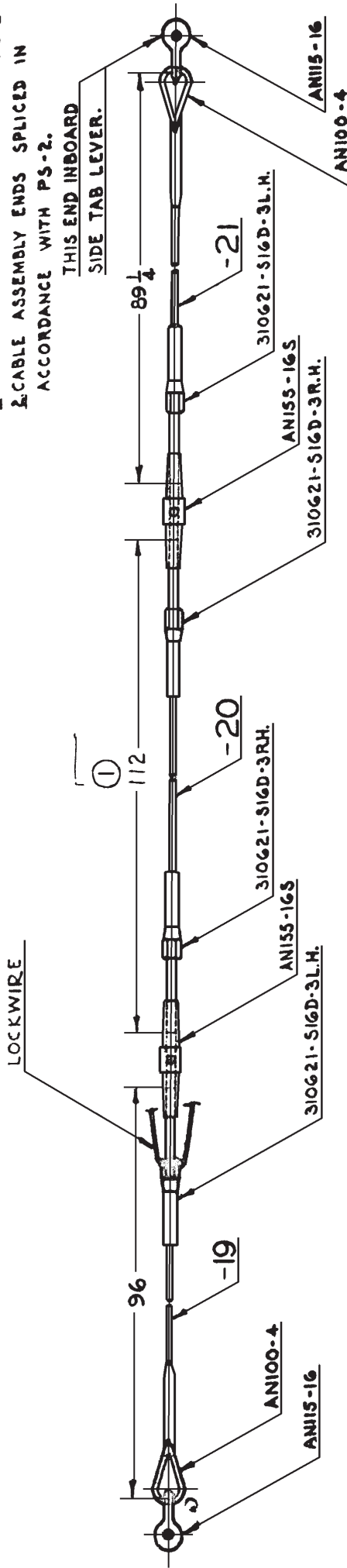
FAIRLEAD
ELEV. TAB CONTROL

SUPERSEDED BY
SCALE
FULL SIZE
REF. DRAWING NO.
67524-13
NAVAL AIRCRAFT FACTORY PHILADELPHIA

NOTES-

1 SWAGE CABLES IN ACCORDANCE WITH PS-6 & CABLE ASSEMBLY ENDS SPICED IN ACCORDANCE WITH PS-2.

THIS END INBOARD SIDE TAB LEVER.



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	MT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
2	67524-10	TERMINAL	TERMINAL	STANDARD							
2	1-10	TERMINAL	TERMINAL	STANDARD							
2	-10	LOCKWIRE	LOCKWIRE	.040 DIA. x 12	STEEL						
2	-10	BARREL TURNBUCKLE	BARREL TURNBUCKLE	STANDARD							
2	-10	SHACKLE	SHACKLE	STANDARD							
2	-10	THIMBLE	THIMBLE	STANDARD							
1	-10	CABLE	CABLE	3/4" DIA. x 96	STEEL	ZINC PLATED					
1	-10	CABLE	CABLE	3/4" DIA. x 112	STEEL	ZINC PLATED					
1	-10	CABLE	CABLE	3/4" DIA. x 102	STEEL	ZINC PLATED					
1	67524-11	CABLE ASSEMBLY	CABLE ASSEMBLY								

W

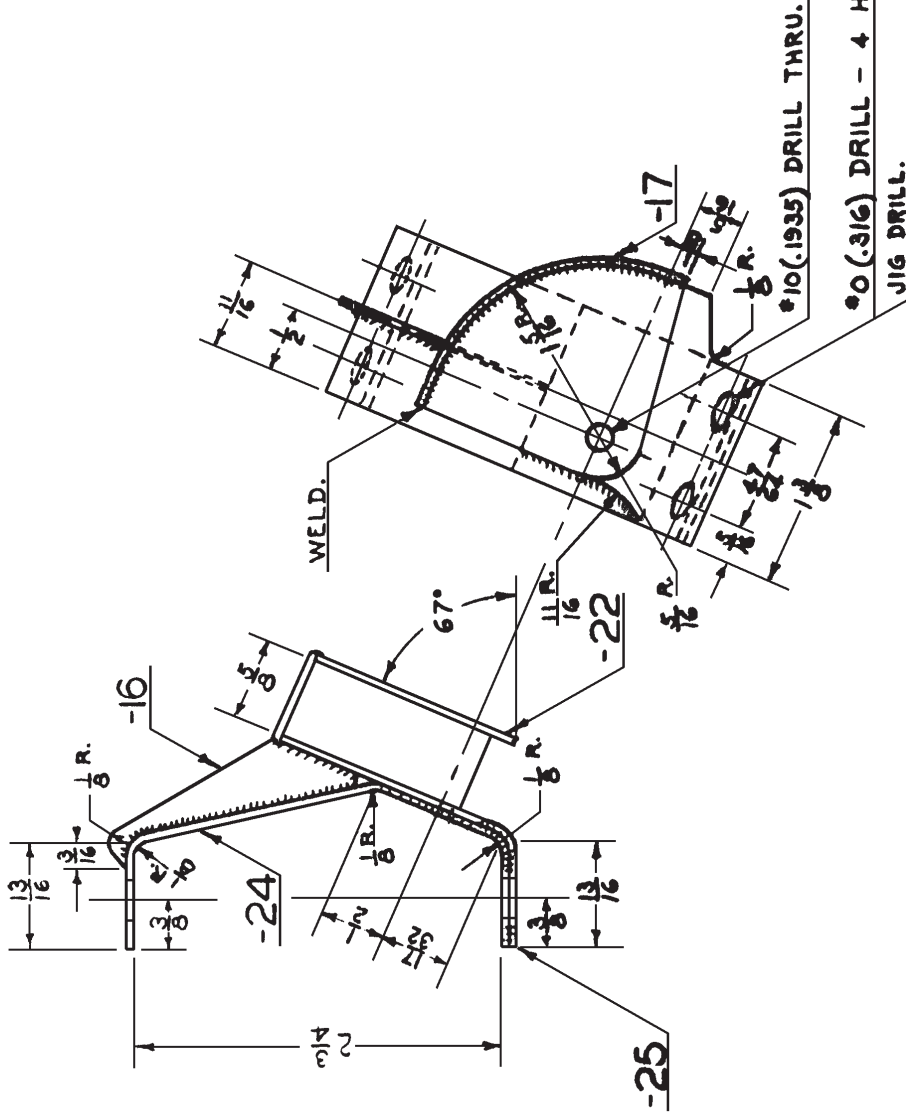
N3N-3			DESIGNED FOR			DIMENSIONS ARE IN INCHES. LIMITS ± 0.010 ANGLES ± 1/2° UNLESS OTHERWISE NOTED.		
DRAWN	TRACED							
CHECKED								
SUPERVISOR								
STRUCTURE								
CHIEF DRAFT.								
PROJ. ENG.								
ASST. CHY. ENG.								
APPROVAL								

ALTERNATIONS
 -20 WAS 1117
 7-20-40
 1

CABLE
ELEVATOR TAB CONTROL - ASSEM.
 SUPERSEDED BY
 SCALE
 HALF SIZE
 REF. DRAWING NO.
67524-18
 NAVY YARD
NAVAL AIRCRAFT FACTORY
 PHILADELPHIA

67524-23

Ord. 6/26/40.



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U. I. S. FINISH	EST. WT.	ACT. WT.
1	67524-23	67524-23	PLATE		.035 x 1 1/8 x 2 1/2	STEEL			47514	
1	67524-23	67524-23	PLATE		.048 x 1 1/8 x 4 1/2	STEEL			47514	
1	67524-23	67524-23	PLATE		.035 x 1 1/8 x 1 1/2	STEEL			47514	
1	67524-23	67524-23	PLATE		.035 x 1 1/8 x 2 1/2	STEEL			47514	
1	67524-23	67524-23	PULLEY BRACKET ASSEMBLY		.039 x 1 1/8 x 1 1/2	STEEL			47514	
1	67524-23	67524-23	PULLEY BRACKET ASSEMBLY		.039 x 1 1/8 x 1 1/2	STEEL			47514	
DIMENSIONS ARE IN INCHES. LIMITS ±										
DRAWN										
CHECKED										
SUPERVISOR										
STRUCTURE										
CHIEF DRAFT.										
PROJ. ENG.										
ASST. CHIEF ENG.										
APPROVAL										
ALTERNATIONS										
SUPERSEDED BY										
SEE DRAWING NO. 67524-23										
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA										

BRACKET ELEV. TAB

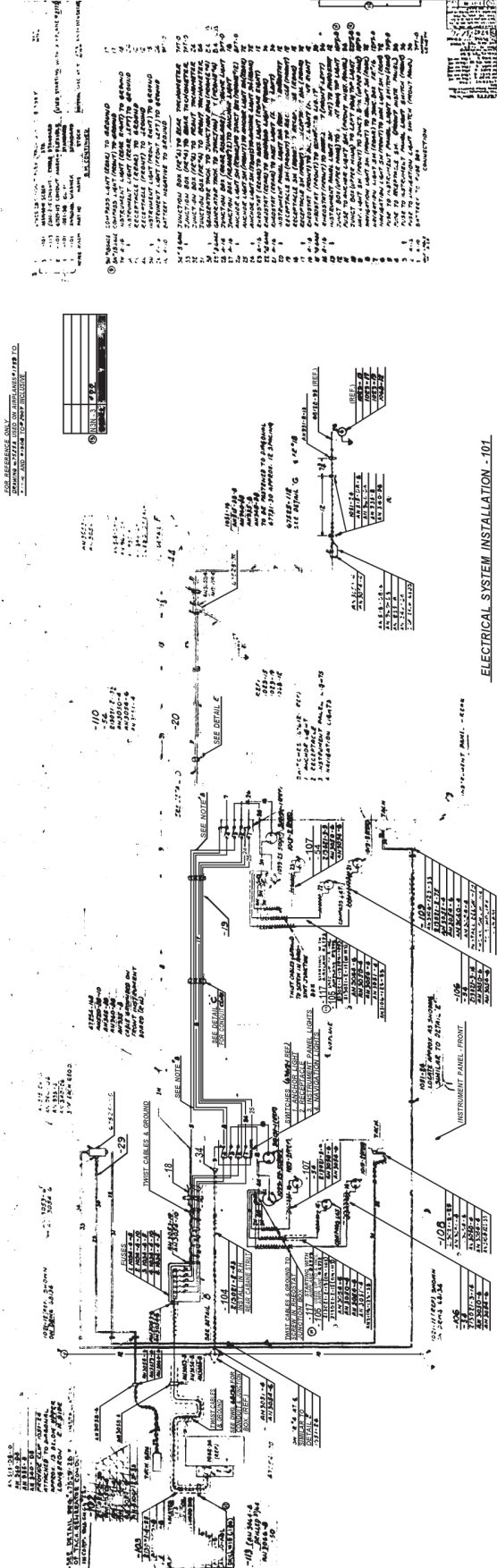
EY-2 1/2 QD-UP

67524-23

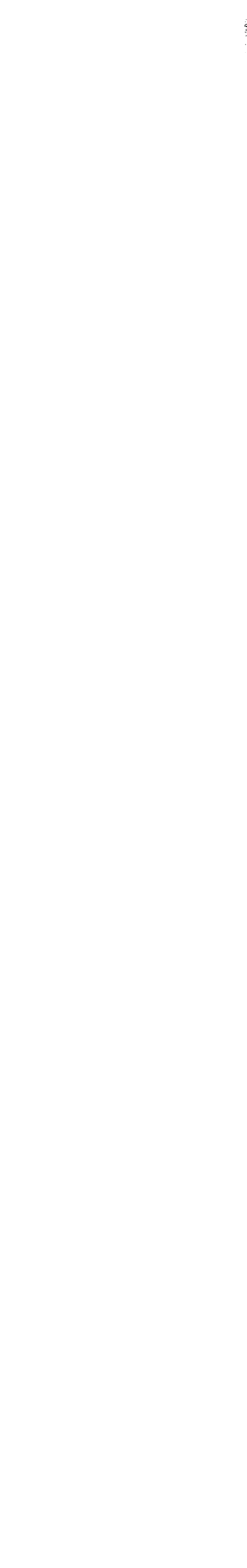
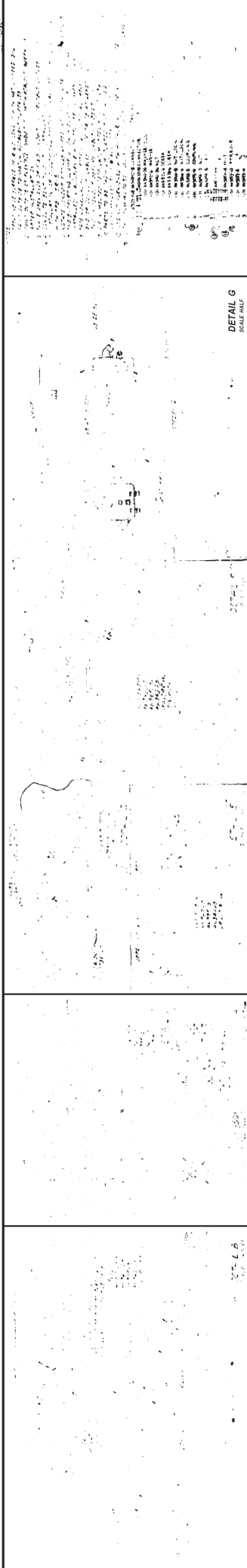
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

ELECTRICAL SYSTEM	
NO.	DESCRIPTION
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ELECTRICAL SYSTEM INSTALLATION - 101

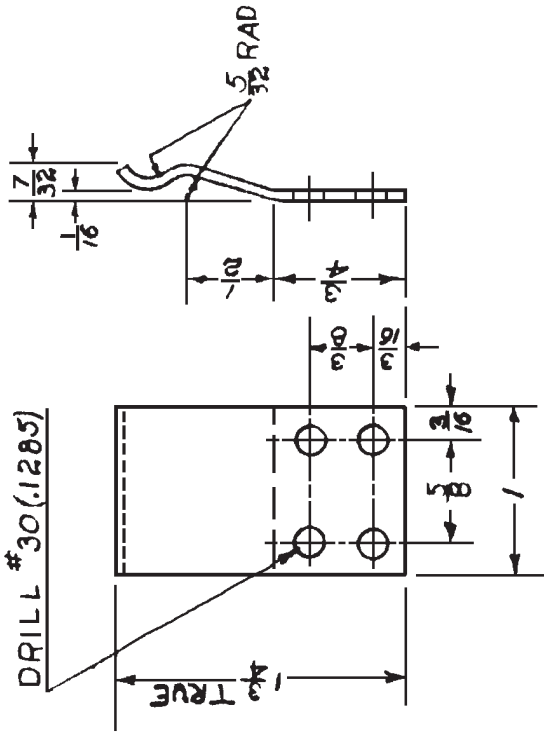


DETAIL G
SCALE HALF



67525-6

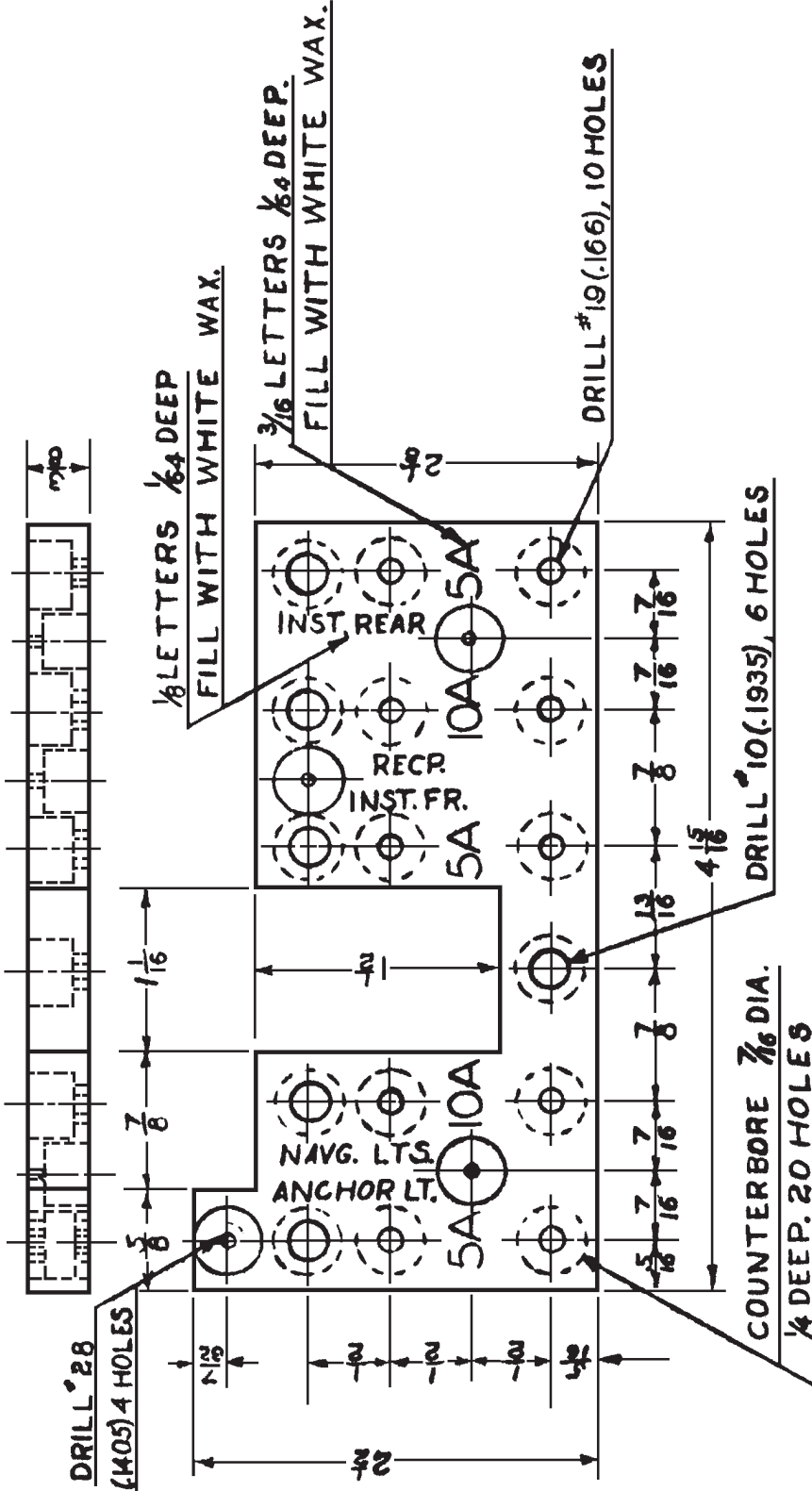
AD 7/11/40



1	67525-114	67525-6	SNAP-FUSE BOX	.0511 ± 1/4	STOCK	ALUM. ALLOY	SR 53	62000	PF-1-40	
NO. REQ.	ASSEM.	PART NO.	NAME	DIMENSIONS ARE IN INCHES. LIMITS ±		MATERIAL	MT. T.	U.T.S.	FINISH	EST. WT. ACT. WT.
N3N-3				DESIGNED FOR				f/50. IN.		
				DRAWN TRACED	PLETT 7-8-40				SNAP	
				CHECKED	<i>B. P. Smith</i> 7-2-40				FUSE BOX	
				SUPERVISOR	<i>B. W. D. S. L.</i> 7-10-40				SUPERSEDES	
				STRUCTURE					SCALE	
				CHIEF DRAFT.	<i>M. J. P.</i> 7-10-40				FULL SIZE	
				PROJ. ENG.	<i>J. Lindner</i> 7-10-40				REF. DRAWING NO.	
				ASST. CHIEF ENG.	<i>B. Smith</i> 7-10-40				67525-6	
				APPROVAL					NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA	

67525-8

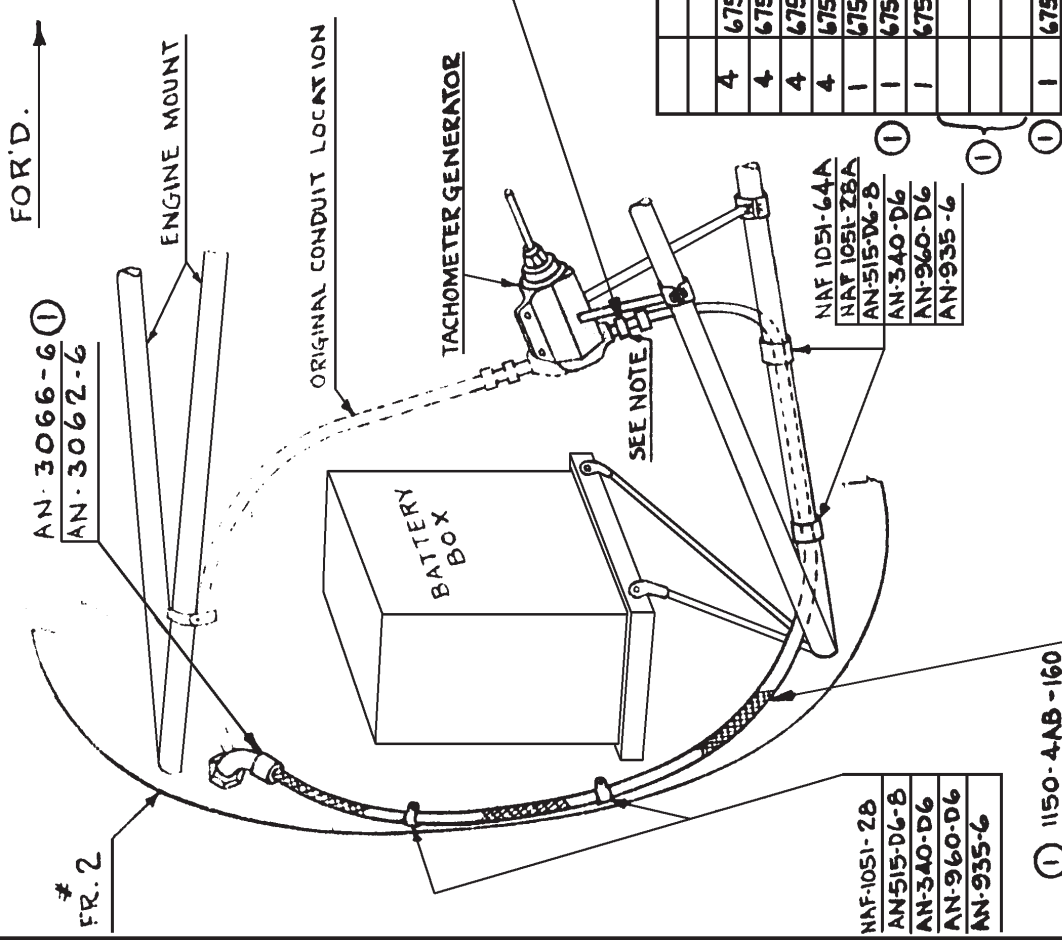
AD 7/11/40



1	67525-1467525-8	FUSE BLOCK	3/8 x 2 1/2 x 1 1/8	STOCK	PHENOLIC FIBER	17721	TYPE	BLACK	
NO. REQ.	ASSEM.	PART NO.	NAME		MATERIAL	SPEC.	HT. T.	U.S. FINISH	EST. WT. ACT. WT.
N3N-3					DIMENSIONS ARE IN INCHES. LIMITS ± DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.				
			ALTERATIONS		BLOCK, FUSE				
					CAPACITY 5				
					SUPERSEDES				
					SCALE				
					FULL SIZE				
					REF. DRAWING NO.				
					67525-8				
					NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA				

67525-28

67525-28



NOTE: ROTATE GENERATOR 180° NOTCH GEN. SUPP. BRACKET TO ACCOMMODATE CONDUIT FITTING.

① AN-3106-125-35

N3N3
MODEL BUREAU AERO CHANGE

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.	FINISH	EST. WT.	ACT. WT.
4	67525-28	AN-240-D6	WASHER - FLAIN	1/6	STD	AL-ALLOY					
4	67525-28	AN-935-6	WASHER - LOCK	1/6	STD	STEEL					
4	67525-28	AN-360-D8	WASHER - RH 7/32 x 1/2	STD	AL-ALLOY						
4	67525-28	AN-340-D6	NUT - HEX	7/32	STD.	AL-ALLOY					
1	67525-28	AN-3066-6	PLUG - CONNECTOR	STD.							
1	67525-28	AN-3066-6	NUT - COUPLING - CONDUIT	STD.							
1	67525-28	AN-3066-6	COUPLING - CONDUIT 90°	STD.							
1	67525-28	AN-340-D6	CONDUIT ASSY	STD.							
2	67525-28	AN-515-D6-8	CLAMP	1 I.D.	STD.	AL-ALLOY					
2	67525-28	AN-515-D6-8	CLAMP	7/16 I.D.	STD.	AL-ALLOY					
2	67525-28	AN-515-D6-8	CLAMP	7/16 I.D.	STD.	AL-ALLOY					
1	67525-1	67525-28	CONDUIT - SUB-ASSY (FLEXIBLE)								

DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± .010 ANGLES ± 1/2° UNLESS OTHERWISE NOTED.

ALTERNATIONS

CHG. CONDUIT NO. 4
NUT NO. 4
9-10-42

SCALE

67525-28

CONDUIT-FLEXIBLE-
ELEC. SYSTEM - SUB ASSEMBLY

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

67525-36

02 711140

DRILL #10(1935) THRU, COUNTERBORE

① $\frac{19}{32}$ DIA. $\frac{1}{8}$ DEEP & C'S'K.

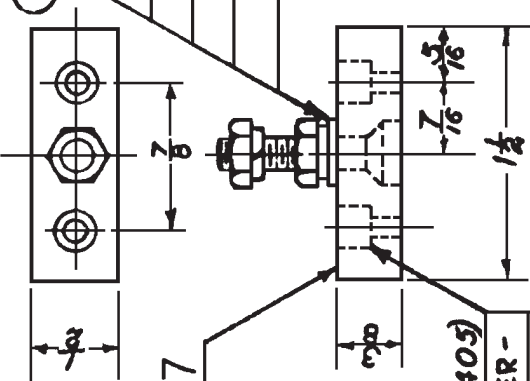
AN 510-B10-14

AN 960-B10

AN 935-10

AN 345-B10

SEAL WITH WAX.



67525-37

DRILL #28(1405)

① THRU, COUNTER-

BORE $\frac{9}{32}$ DIA.

$\frac{3}{16}$ DEEP.

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	DECIMALS ± .010. ANGLES ± 1/4° UNLESS OTHERWISE NOTED.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
2	67525-36	AN935-10	WASHER, LOCK	STD.						
1		AN960-B10	WASHER	ST						
2		AN345-B10	NUT	ST						
1		AN510-B10-14	SCREW	STD.						
1	67525-36	67525-37	TERMINAL BLOCK $\frac{9}{8} \times \frac{1}{8} \times 1\frac{1}{2}$		PHENOLIC FIBER	1775		BLACK		
1	67525-36	67525-36	TERMINAL BLOCK ASSEMBLY							

DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ±	
①	WAS AN515-B10-14	①	7-500
②	B/M. AN510-B10-14	②	7-95
		③	7-100
		④	9-100

ALTERATIONS	APPROVAL
①	
②	
③	
④	

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	DECIMALS ± .010. ANGLES ± 1/4° UNLESS OTHERWISE NOTED.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
1			BLOCK - TERMINAL							
1			SINGLE							

SUPERSEDED BY	
SCALE	67525-36
FULL SIZE	REF. DRAWING NO.
SUPERSEDED BY	
NAVAL AIRCRAFT FACTORY PHILADELPHIA	

67525-45

40 7/11/40

DRILL #10 (1935) THRU, COUNTERBORE

① $\frac{13}{32}$ DIA. $\frac{1}{8}$ DEEP & C'SK.

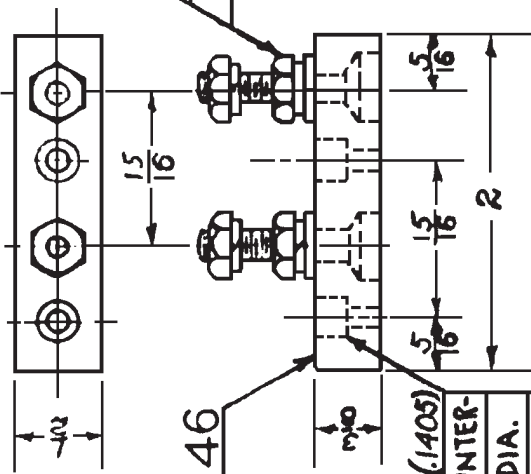
ANS10-B10-14

AN960-B10

AN935-10

AN345-B10

SEAL WITH WAX.



-46

①

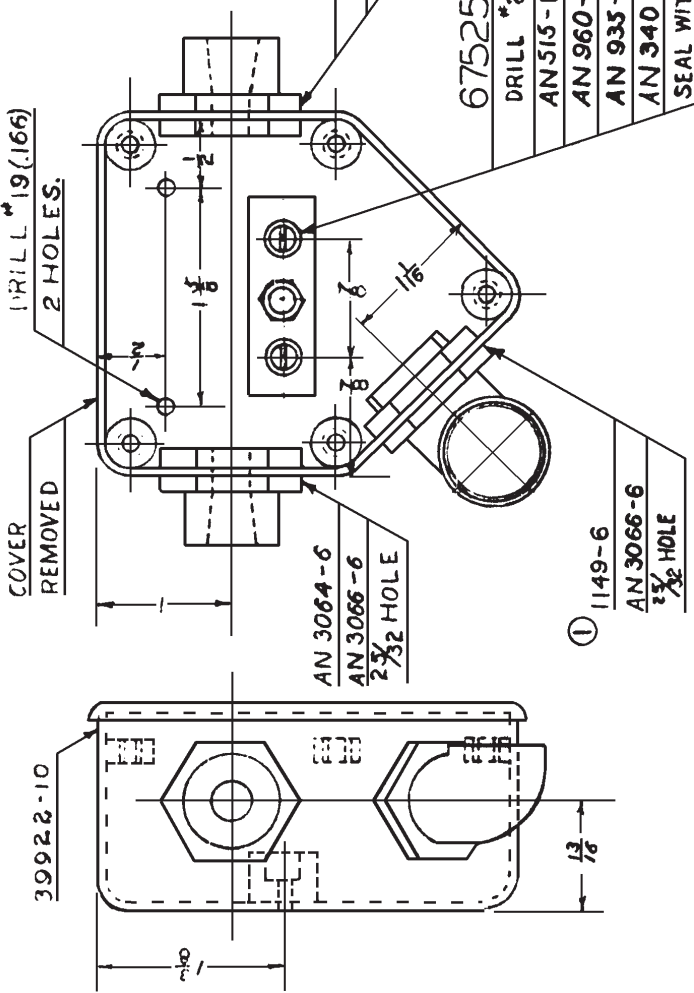
DRILL #28 (1405)
THRU, COUNTER-
BORE $\frac{9}{32}$ DIA.
 $\frac{3}{16}$ DEEP

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S. #/SQ.IN.	FINISH	EST. WT.	ACT. WT.
2	67525-45	AN960-B10	WASHER	STD.							
4	67525-45	AN935-10	WASHER, LOCK	5							
2	67525-45	AN510-B10-H	SCREW	5							
4	67525-45	AN345-B10	NUT	STD.							
1	67525-45	67525-46	TERMINAL BLOCK $\frac{3}{8} \times \frac{1}{2} \times 2$		PHENOLIC FIBER	TYPE FBG			BLACK		
1	67525-45	67525-45	TERMINAL BLOCK ASSEMBLY								
N3N-3		←DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ±		DECIMALS ±.010. ANGLES ± $\frac{1}{2}$ ° UNLESS OTHERWISE NOTED.					
		ALTERATIONS		12-10-40							
		DRAWN TRACED		PLETT							
		CHECKED									
		SUPERVISOR		7-10-40							
		STRUCTURE									
		CHIEF DRAFT.									
		PROJ. ENG.									
		ASST. CHIEF ENG.									
		APPROVAL									
				BLOCK-TERMINAL							
				DOUBLE		ASSEMBLY					
				SUPERSEDES							
				SCALE		67525-45					
				FULL SIZE		REF. DRAWING NO.					
				NAVY YARD		NAVAL AIRCRAFT FACTORY PHILADELPHIA					

67525-111

DR 7/11/40

COVER REMOVED



NOTES:
1. PART NUMBERS MARKED THUS ● ARE DETAILED ON INDIVIDUAL DRAWINGS.

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T. 1/50 IN.	FINISH	EST. WT. ACT. WT.
2	67525-111	AN 340-D6	NUT	STD.				
2		AN 515-D6-B	SCREW					
2		AN 935-6	WASHER, LOCK					
2		AN 960-D6	WASHER					
1		AN 3064-4	CONNECTOR					
1		AN 3066-6	CONNECTOR					
2		AN 3066-6	NUT, LOCK					
1		AN 3066-4	NUT, LOCK					
1	67525-111	1149-6	ELBOW, CONDUIT	STD.				
1	67525-111	39922-10	JUNCT. BOX					
1	67525-111	67525-36	TERMINAL BLOCK	●				
	67525-111	67525-111	JUNCT. BOX ASS'Y					

① ① ①

DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ±.010. ANGLES ±.5°. UNLESS OTHERWISE NOTED.

67525-111

SCALE FULL SIZE

67525-111

NAVAL AIRCRAFT FACTORY PHILADELPHIA

BOX JUNCTION-3 OUTLET
SINGLE TERMINAL ASSEMBLY.

SUPERSEDED BY

SCALE FULL SIZE

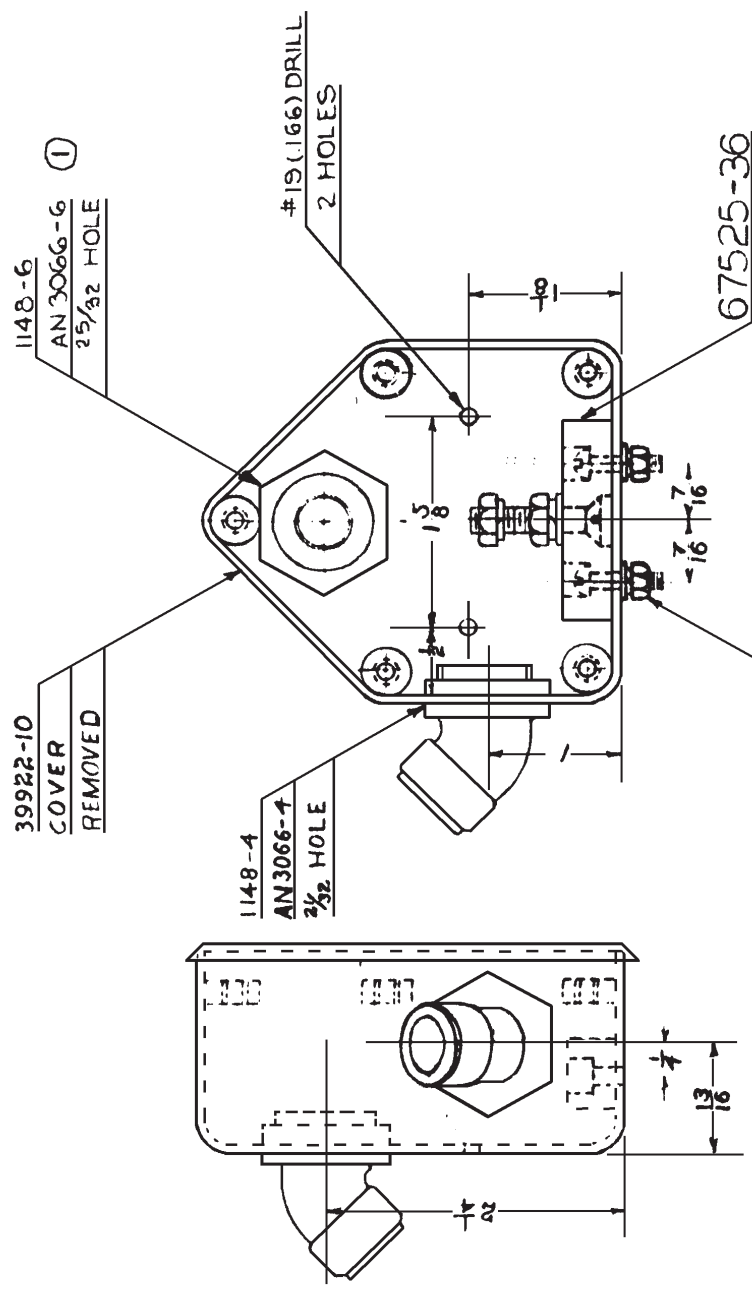
REF. DRAWING NO. 67525-111

NAVAL AIRCRAFT FACTORY PHILADELPHIA

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T. 1/50 IN.	FINISH	EST. WT. ACT. WT.
1	67525-111	39922-10	JUNCT. BOX					
1	67525-111	67525-36	TERMINAL BLOCK	●				
	67525-111	67525-111	JUNCT. BOX ASS'Y					

NOTES:

- I. PART NUMBERS MARKED THUS ● ARE DETAILED ON INDIVIDUAL DRAWINGS.



DRILL #28 (.1405)
 AN315-D6-8
 AN960-D6
 AN935-6
 AN340-D6
 SEAL WITH WAX.

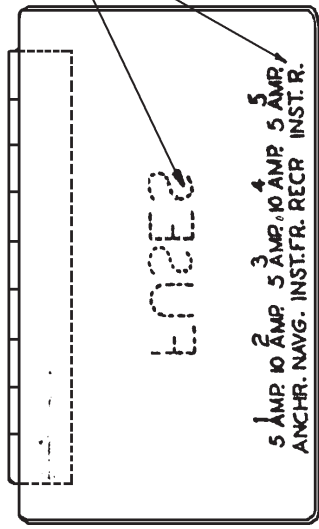
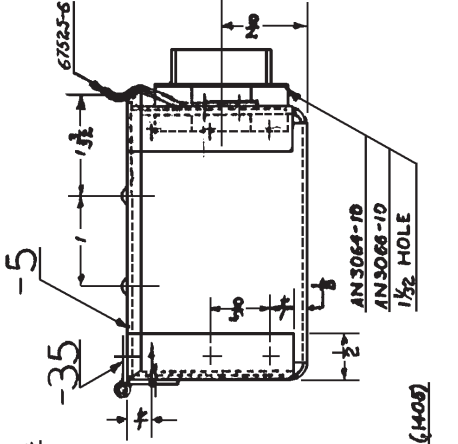
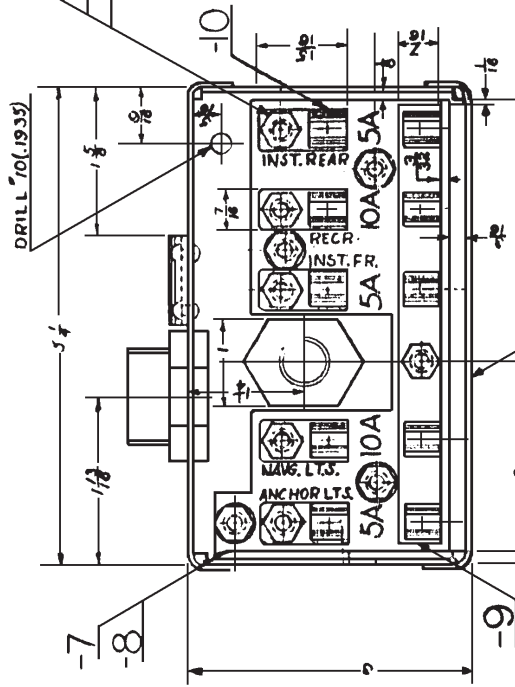
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T. / SQ. IN.	FINISH	EST. WT. ACT. WT.
1	67525-112	1148-6	ELBOW, CONDUIT	STD.					
1		AN3066-6	NUT, LOCK						
2		AN340-D6	NUT						
2		AN935-6	WASHER, LOCK.						
2		AN860-D6	WASHER						
2		AN515-D6	SCREW						
1		AN3066-4	NUT, LOCK						
1		1148-4	ELBOW, CONDUIT	STD.					
1	39922-10	JUNCTION BOX							
1	67525-112	67525-36	TERMINAL BLOCK						
1	67525-10	67525-112	JUNCT. BOX ASSY						

DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ± 1/32 DECIMALS ± .010, ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.	
NO. REQ.	ASSEM.	NAME	STOCK
1	N3N-3	67525-112	STD.
DRAWN TRACED: PLETT			
CHECKED: [Signature]			
SUPERVISOR: [Signature]			
STRUCTURE: [Signature]			
CHIEF DRAFT: [Signature]			
PROJ. ENG.: [Signature]			
ASST. CHIEF ENG.: [Signature]			
APPROVAL: [Signature]			

SCALE	REF. DRAWING NO.	67525-112
FULL SIZE		
SUPERSEDED BY		
BOX-JUNCTION 2 OUTLET ASSEMBLY SINGLE		
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA		

NOTES:
 I. PART NUMBERS MARKED THUS ● ARE DETAILED ON INDIVIDUAL DRAWINGS.

AN320-B10-12
 AN345-10
 6 OF EACH REQ'D.
 AN 960-B10
 AN 345-B10
 12 OF EACH REQ'D.



NO. REQ.	ASSEM.	PART NO.	DESIGNED FOR	NAME	STOCK	MATERIAL SPEC.	HT. T.	FINISH	EST. WT.
1		67525-114	A47330-21	DECALCOMANIA					
1		114	A47330-14	DECALCOMANIA					
36		-3	1035-4	FUSE CLIP	STK				
12		-7	AN345-10	WASHER					
4		-3	AN3066-10	WASHER, LOCK					
6		-7	AN520-B10-8	SCREW					
10		-7	AN520-B8-6	SCREW					
4		-3	AN3066-10	WASHER					
12		-7	AN345-10	NUT					
4		-3	AN345-8	NUT					
1		-3	AN3066-8	NUT, LOCK					
1		-3	AN3066-10	NUT, LOCK					
10		-3	AN 3064-10	CONNECTOR					
1		-3	1035-4	FUSE CLIP	STK				
1		-3	9729-16	CONNECTOR	MAKE FROM AN 3064-8				
1		-3	33	HINGE	MAKE FROM AN 251-10				
5		-7	10	TERMINAL STRIP	60% Zn-4% BRASS 1/4" x 1/8" x 1/4"				
1		-7	8	FUSE BLOCK	ASSEMBLY				
1		-3	6	SNAP					
1		-3	4	BOX					
1		-3	3	FUSE BOX ASSEMBLY					
1		67525-114	A47330-21	FUSE BOX ASSEMBLY					
NO. REQ. ASSEM. PART NO. DESIGNED FOR NAME STOCK MATERIAL SPEC. HT. T. FINISH EST. WT. DIMENSIONS ARE IN INCHES. LIMITS ± 1/4 DECIMALS ± 0.10 ANGLES ± 1/2° UNLESS OTHERWISE NOTED.									

67525-114

FUSE BOX
 CAPACITY 3

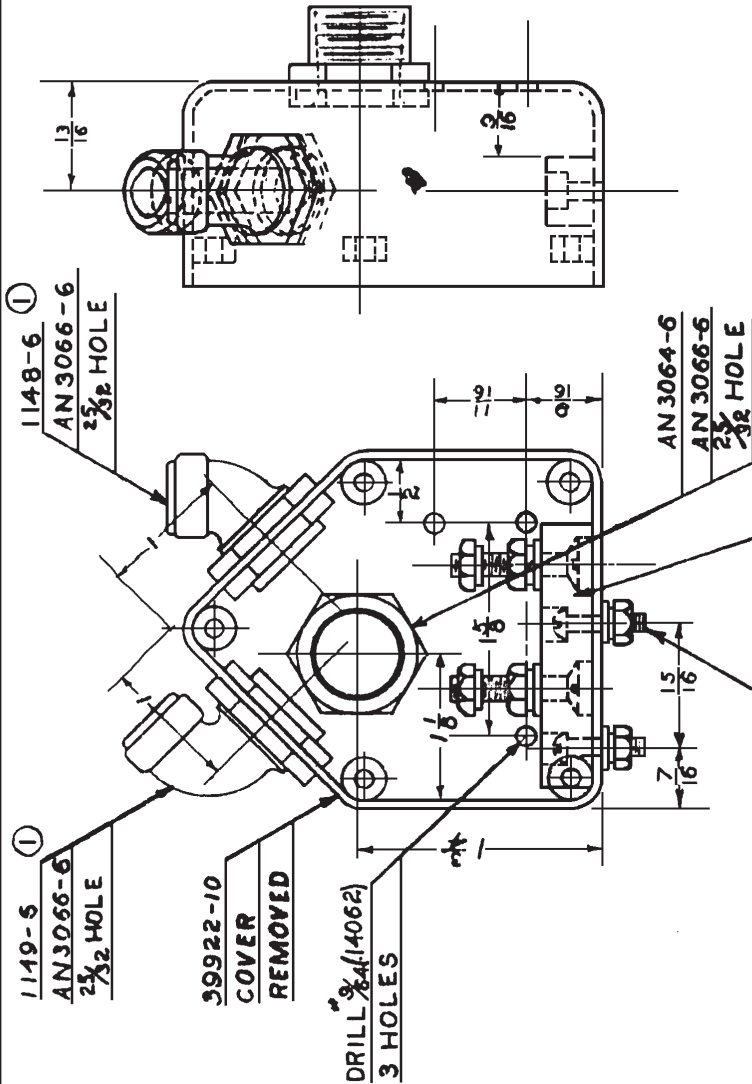
SCALE
 FULL SIZE

SUPERSEDED BY
 67525-114

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

67525-115

REV 7/11/60



1149-5
AN 3066-6
2 3/8 HOLE

1148-6
AN 3066-6
2 3/8 HOLE

39922-10
COVER
REMOVED

DRILL 3/4 (14062)
3 HOLES

AN 3064-6
AN 3066-6
2 3/8 HOLE

DRILL #28 (.1405)
AN 515-D6-8
AN 960-D6
AN 935-6
AN 340-D6
SEAL WITH
WAX.

67525-45

NOTES:

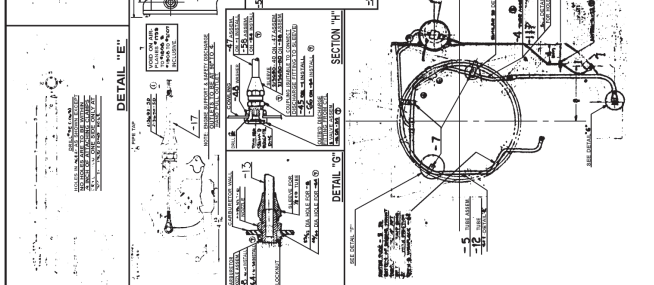
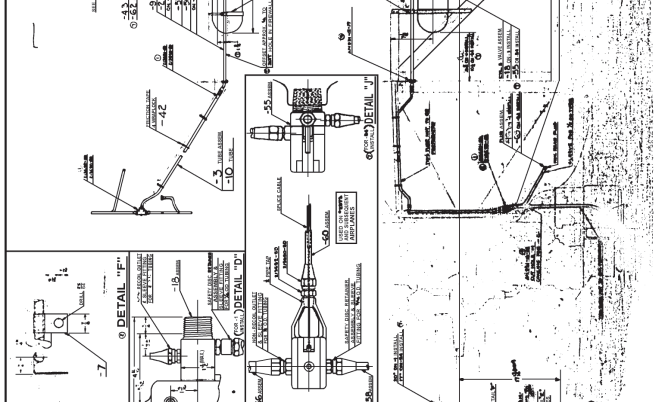
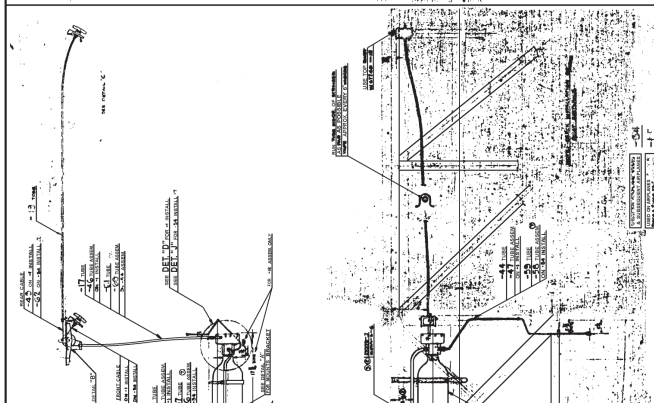
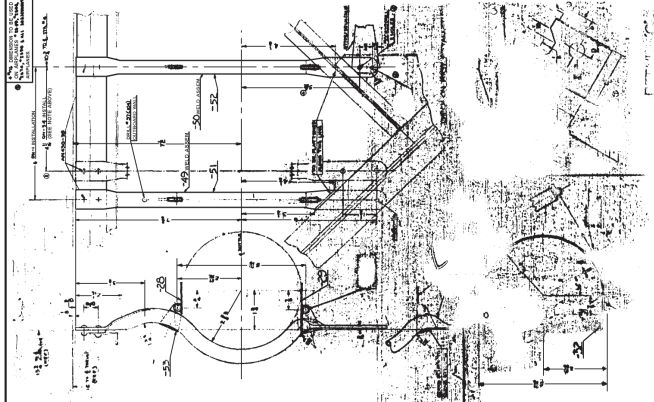
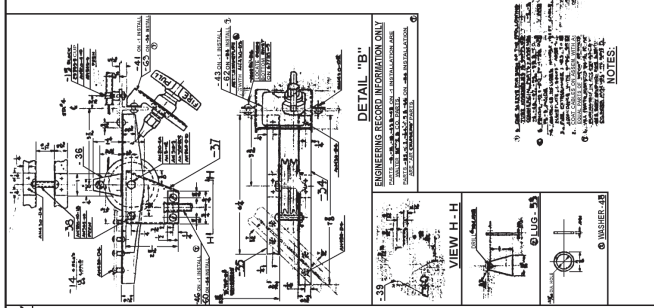
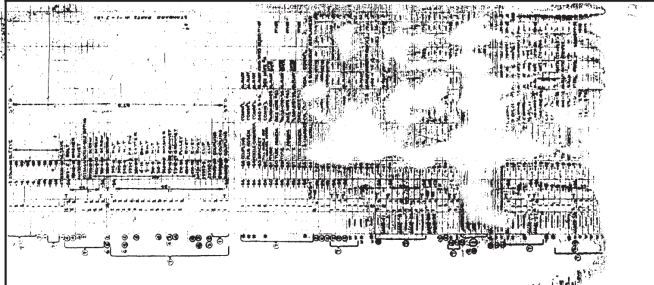
1. PART NUMBERS MARKED THUS ● ARE DETAILED ON INDIVIDUAL DRAWINGS.

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T. #/SQ. IN.	FINISH	EST. WT. ACT. WT.
2	67525-115	ANS960-D6	WASHER	ST D.				
2		AN935-6	WASHER, LOCK					
2		AN515-D6-8	SCREW					
2		AN 340-D6	NUT	STANDARD				
1		AN 3064-6	ELBOW, CONDUIT					
3		AN 3066-6	NUT, LOCK					
2		AN 3066-6	NUT, LOCK					
1		1148-6	ELBOW, CONDUIT					
1		1149-6	ELBOW, CONDUIT	ST D.				
1		67525-45	TERMINAL BLOCK					
1	67525-115	39922-10	JUNCTION BOX	ST D.				
	67525-101	67525-115	JUNCTION BOX ASSY.					

NO. REQ.		ASSEM.		PART NO.		NAME		STOCK		MATERIAL SPEC.		HT. T. #/SQ. IN.		FINISH		EST. WT. ACT. WT.	
N3N-3																	
←-DESIGNED FOR																	
DIMENSIONS ARE IN INCHES. LIMITS ± 1/4 DECIMALS ± .010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.																	
DRAWN TRACED																	
CHECKED																	
SUPERVISOR																	
STRUCTURE																	
CHIEF DRAFT.																	
PROJ. ENG.																	
TEST. ENGR.																	
APPROVAL																	
ALTERATIONS																	
SUPERSEDED BY																	
SCALE																	
FULL SIZE																	
REF. DRAWING NO.																	
67525-115																	
NAVAL AIRCRAFT FACTORY PHILADELPHIA																	

BOX-JUNCTION, 3 OUTLET
DOUBLE TERMINAL, ASSEMBLY

67525-115



NOTES:
 1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
 2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 4. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 5. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.

DETAIL "B"
 ENGINEERING RECORD INFORMATION ONLY
 THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION

VIEW H-H

LUG 13

WASHER 14

DETAIL "F"

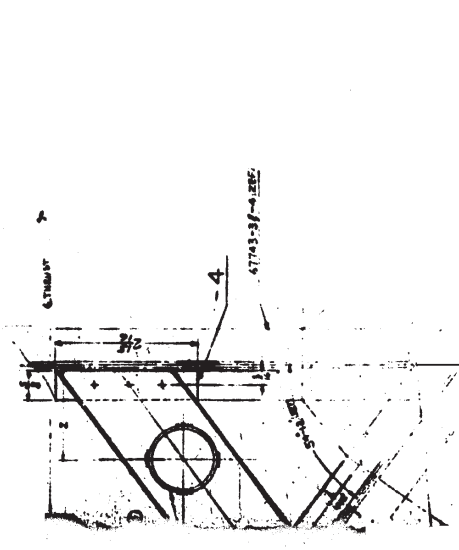
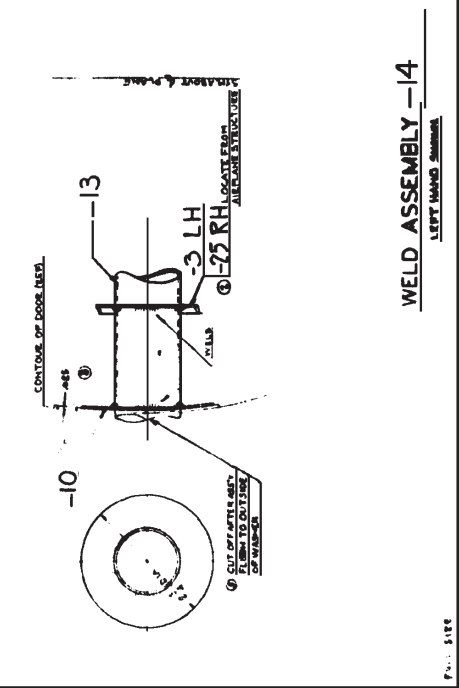
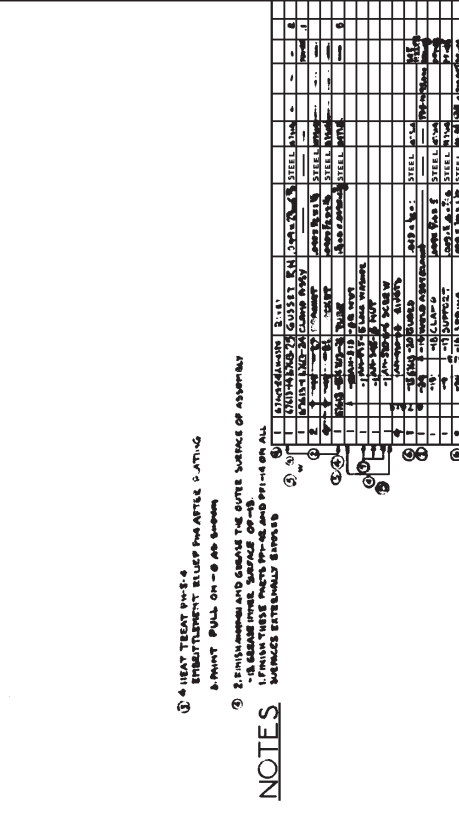
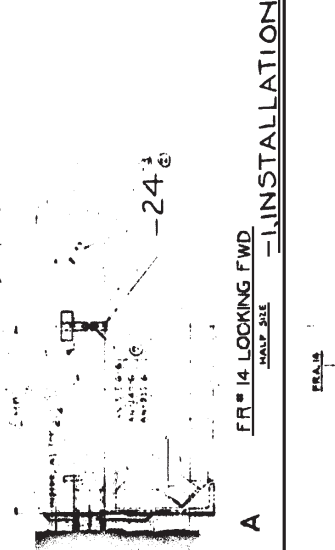
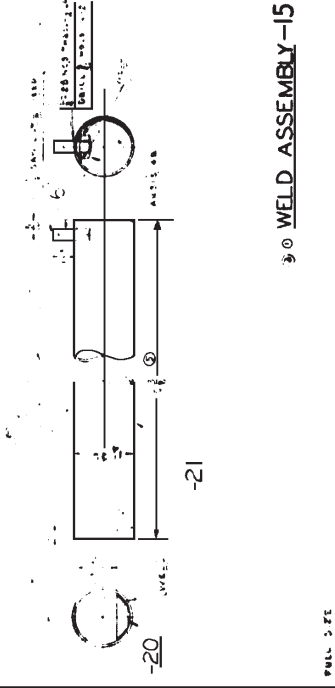
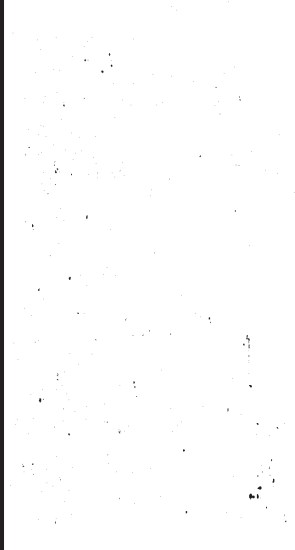
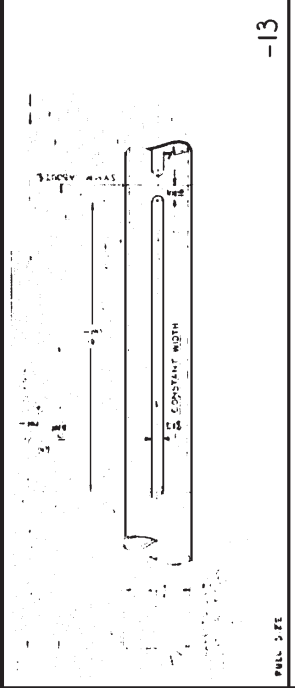
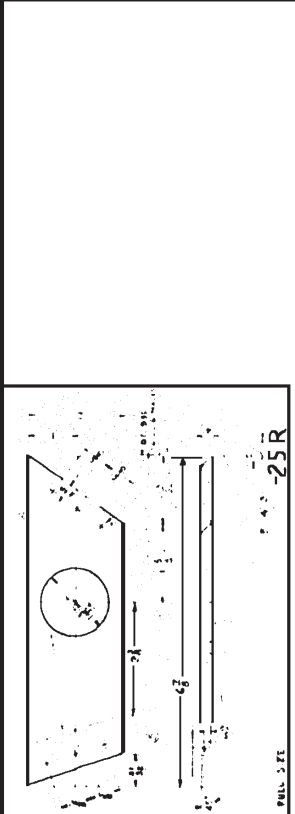
DETAIL "D"

DETAIL "E"

SECTION "H"

DETAIL "C"

DETAIL "A"



WELD ASSEMBLY -15

WELD ASSEMBLY -14

WELD ASSEM -19

ASSEM -24

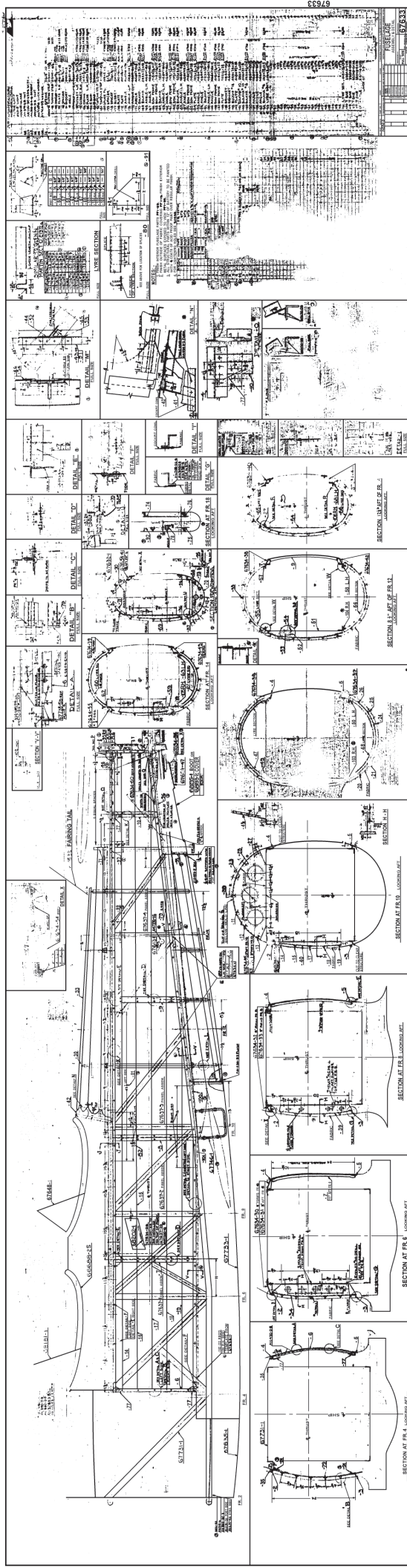
FR 14 LOCKING FWD -1. INSTALLATION

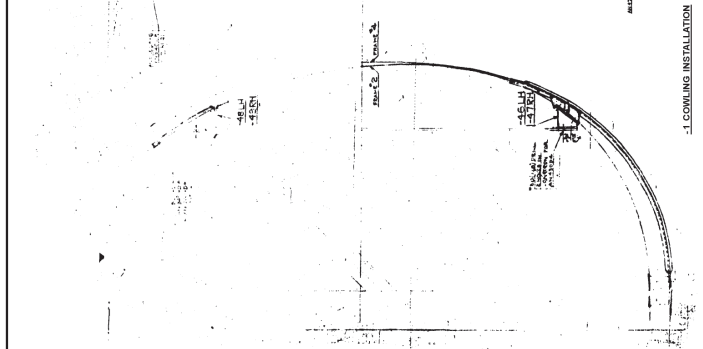
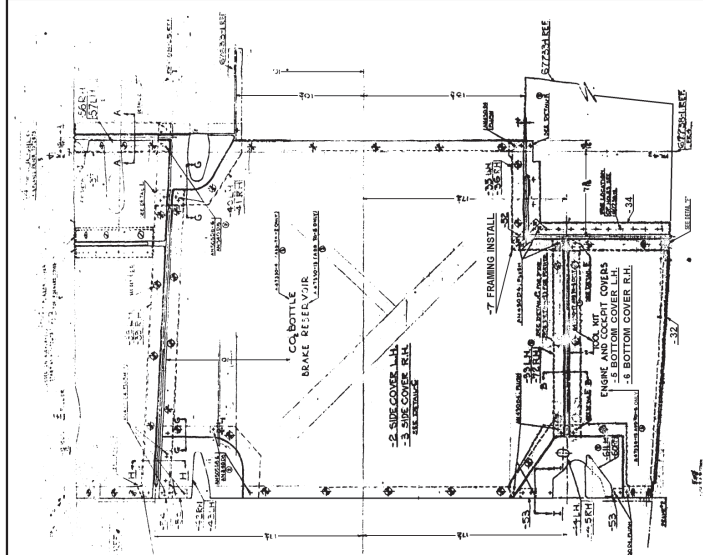
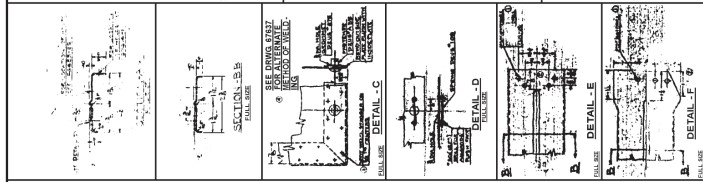
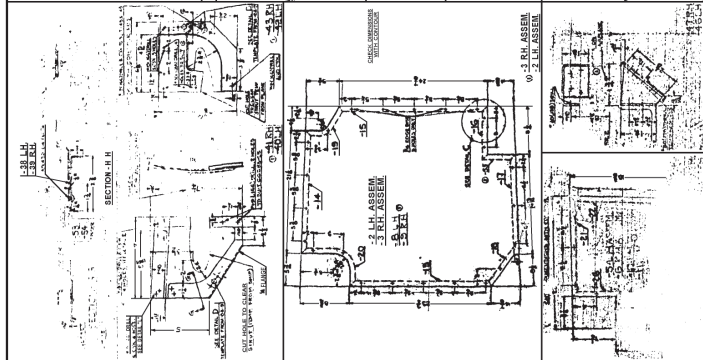
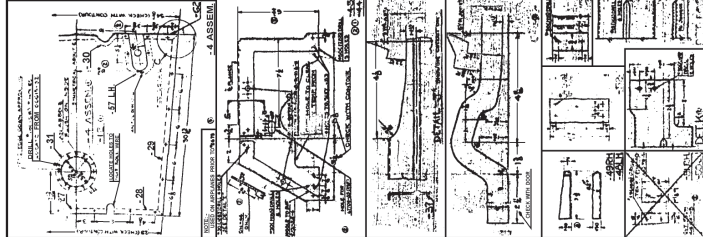
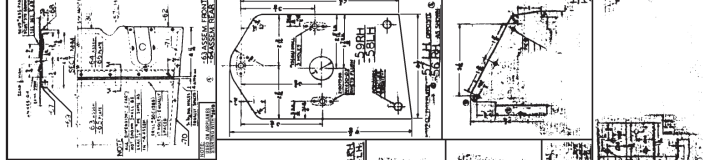
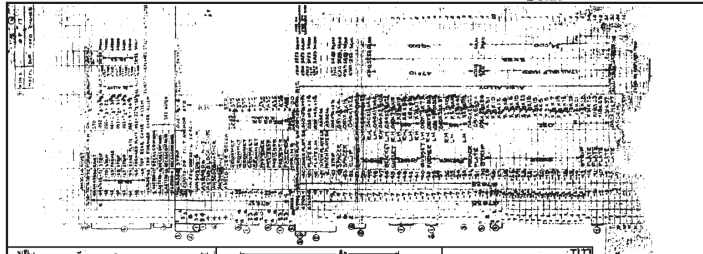
VIEW -AA

- 1 HEAT TREAT PWS-4
- 2 FINISH AND GRIND THE OUTER SURFACE OF ASSEMBLY
- 3 GRIND THESE PARTS PWS-4 AND PWS-14 ON ALL SURFACES EXCEPTED
- 4 HEAT TREAT PWS-4
- 5 FINISH AND GRIND THE OUTER SURFACE OF ASSEMBLY
- 6 GRIND THESE PARTS PWS-4 AND PWS-14 ON ALL SURFACES EXCEPTED

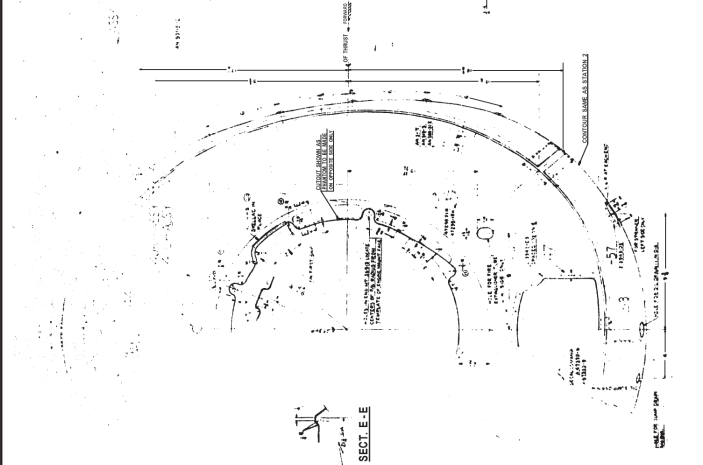
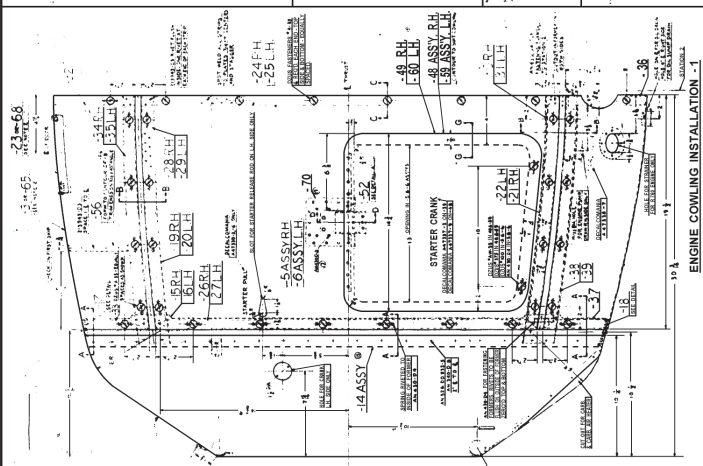
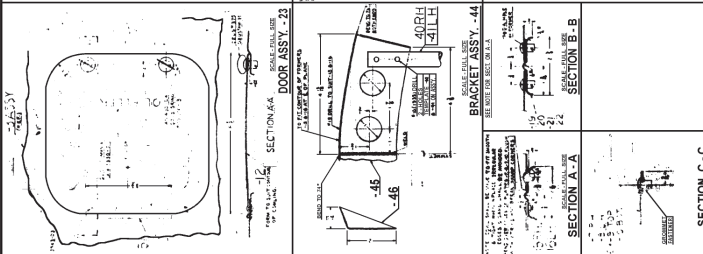
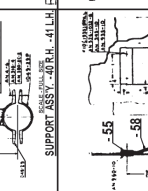
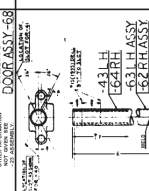
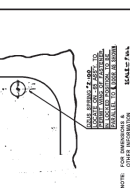
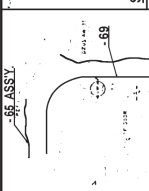
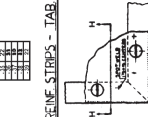
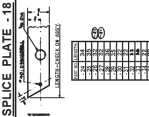
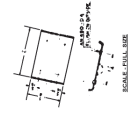
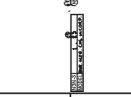
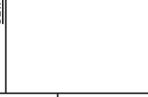
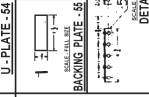
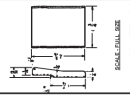
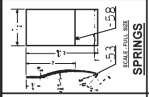
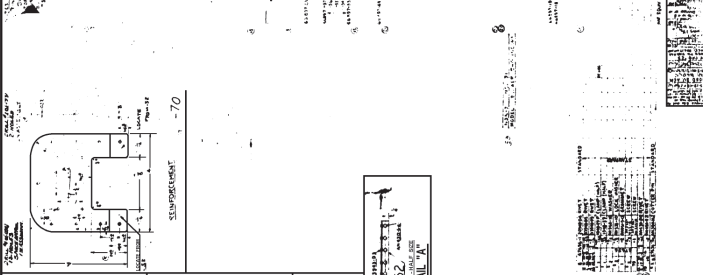
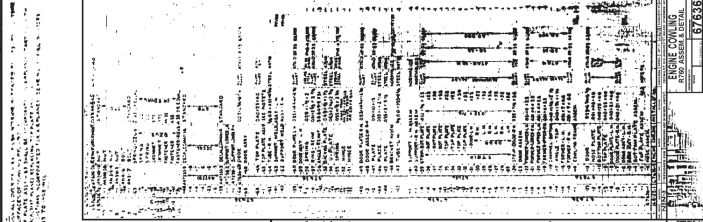
NOTES

ITEM NO.	DESCRIPTION	QTY	UNIT	MATERIAL	REMARKS
1	HEAT TREAT PWS-4	1	EA	STEEL	
2	FINISH AND GRIND THE OUTER SURFACE OF ASSEMBLY	1	EA	STEEL	
3	GRIND THESE PARTS PWS-4 AND PWS-14 ON ALL SURFACES EXCEPTED	1	EA	STEEL	
4	HEAT TREAT PWS-4	1	EA	STEEL	
5	FINISH AND GRIND THE OUTER SURFACE OF ASSEMBLY	1	EA	STEEL	
6	GRIND THESE PARTS PWS-4 AND PWS-14 ON ALL SURFACES EXCEPTED	1	EA	STEEL	



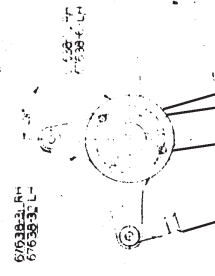


-1 COOLING INSTALLATION



NOTES:
 1. FOR REAR PLANE INSTALLATION
 2. ALL DIMENSIONS ARE IN INCHES
 3. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED
 4. DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED

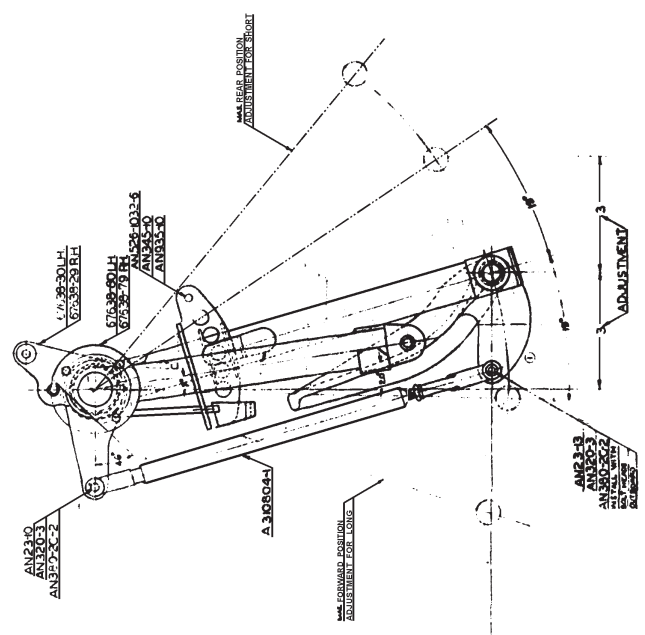
SUPPORT
 CLAMP SUPPORT



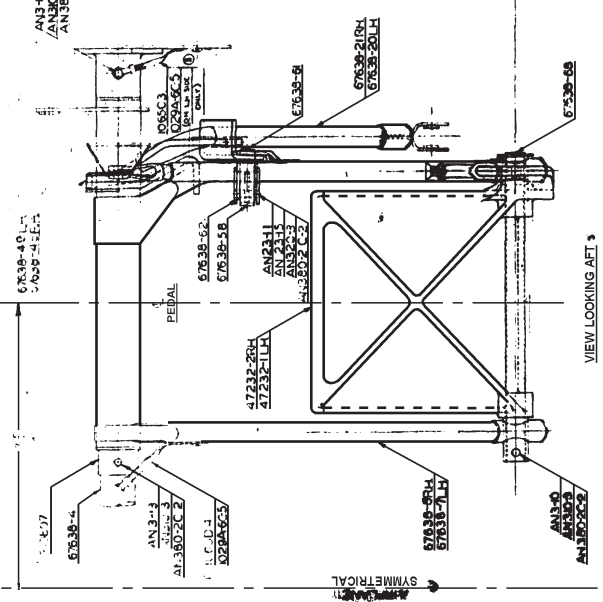
SAME AS FRONT EXCEPT AS SHOWN

- 5 ASSEMBLY REAR

SUPPORT
 FRONT COUPLER



- 3 ASSEMBLY FRONT



VIEW LOOKING AFT

SYMMETRICAL

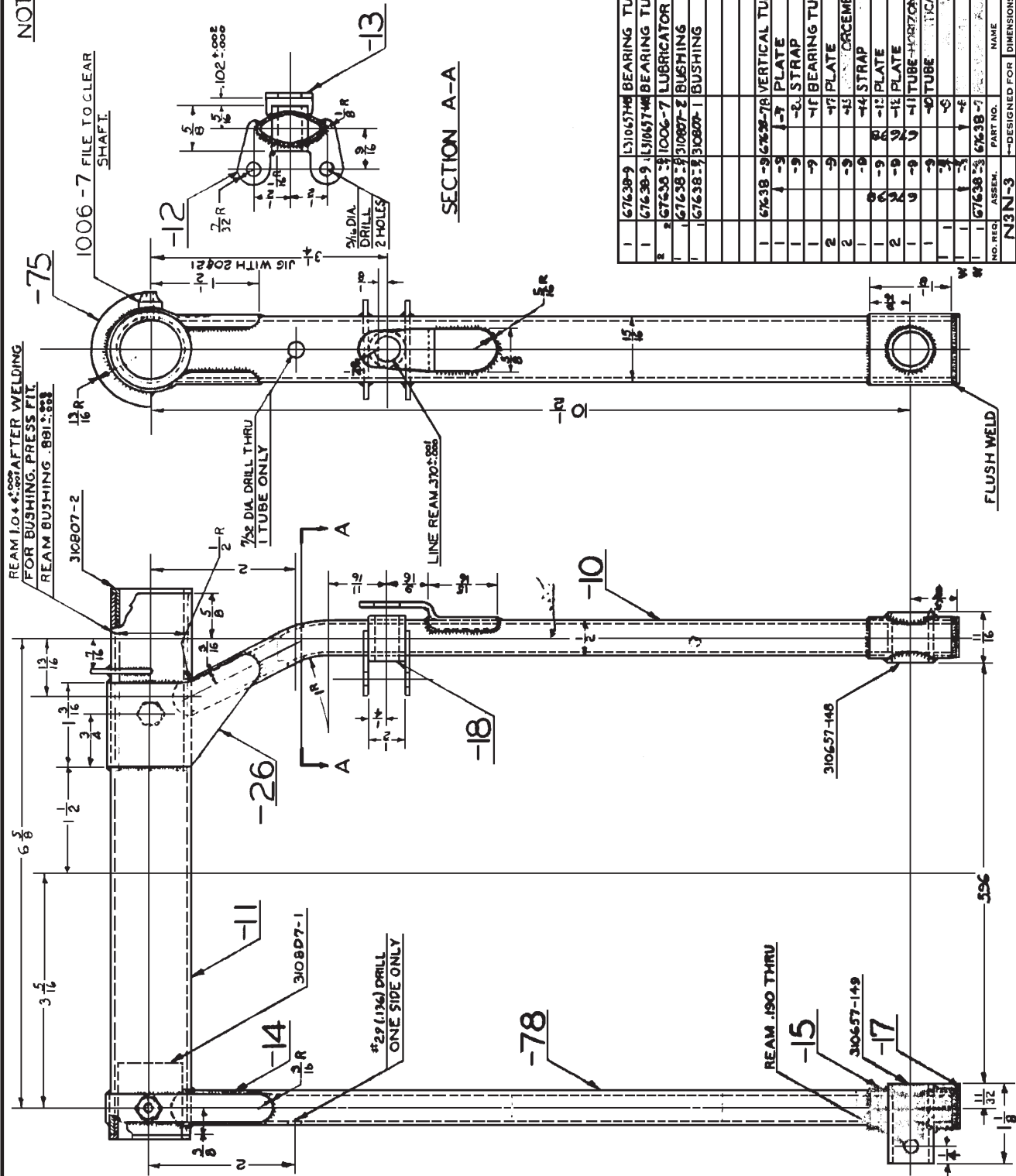
QTY	DESCRIPTION	REF
1	AN341	1
1	AN353	1
1	AN3807C-2	1
1	AN392C-2	1
1	A1305G4	1
1	A1325-03-3	1
1	A13553X	1
1	OS5C3	1
1	67638-52	1
1	67638-58	1
1	67638-61	1
1	67638-68	1
1	67638-69	1
1	67638-71LH	1
1	67638-71RH	1
1	67638-80LH	1
1	67638-80RH	1
1	67638-90LH	1
1	67638-90RH	1
1	67638-91LH	1
1	67638-91RH	1
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1	67638-96RH	1
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1	67638-97RH	1
1	67638-98LH	1
1	67638-98RH	1
1	67638-99LH	1
1	67638-99RH	1

67638-1	67638-2	67638-3	67638-4	67638-5	67638-6	67638-7	67638-8	67638-9	67638-10	67638-11	67638-12	67638-13	67638-14	67638-15	67638-16	67638-17	67638-18	67638-19	67638-20	67638-21	67638-22	67638-23	67638-24	67638-25	67638-26	67638-27	67638-28	67638-29	67638-30	67638-31	67638-32	67638-33	67638-34	67638-35	67638-36	67638-37	67638-38	67638-39	67638-40	67638-41	67638-42	67638-43	67638-44	67638-45	67638-46	67638-47	67638-48	67638-49	67638-50	67638-51	67638-52	67638-53	67638-54	67638-55	67638-56	67638-57	67638-58	67638-59	67638-60	67638-61	67638-62	67638-63	67638-64	67638-65	67638-66	67638-67	67638-68	67638-69	67638-70	67638-71	67638-72	67638-73	67638-74	67638-75	67638-76	67638-77	67638-78	67638-79	67638-80	67638-81	67638-82	67638-83	67638-84	67638-85	67638-86	67638-87	67638-88	67638-89	67638-90	67638-91	67638-92	67638-93	67638-94	67638-95	67638-96	67638-97	67638-98	67638-99	67638-100
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67638-101		67638-102		67638-103		67638-104		67638-105		67638-106		67638-107		67638-108		67638-109		67638-110		67638-111		67638-112		67638-113		67638-114		67638-115		67638-116		67638-117		67638-118		67638-119		67638-120		67638-121		67638-122		67638-123		67638-124		67638-125		67638-126		67638-127		67638-128		67638-129		67638-130		67638-131		67638-132		67638-133		67638-134		67638-135		67638-136		67638-137		67638-138		67638-139		67638-140		67638-141		67638-142		67638-143		67638-144		67638-145		67638-146		67638-147		67638-148		67638-149		67638-150		67638-151		67638-152		67638-153		67638-154		67638-155		67638-156		67638-157		67638-158		67638-159		67638-160		67638-161		67638-162		67638-163		67638-164		67638-165		67638-166		67638-167		67638-168		67638-169		67638-170		67638-171		67638-172		67638-173		67638-174		67638-175		67638-176		67638-177		67638-178		67638-179		67638-180		67638-181		67638-182		67638-183		67638-184		67638-185		67638-186		67638-187		67638-188		67638-189		67638-190		67638-191		67638-192		67638-193		67638-194		67638-195		67638-196		67638-197		67638-198		67638-199		67638-200	
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PEDALS - RUDDER
 67638
 MADE IN THE USA

- NOTES:**
1. HOLE FOR I.C. TO BE DRILLED IN -78-8 TO MAKE L.H. & R.H. DRILL FOR DRIVE FIT.
 2. FINISH ALL TUBES TO CONFORM WITH SPEC. PC-8.
 3. ALL HOLES TO BE JIG DRILLED.



N3N-3 - DESIGNED FOR

NO. REG. ASSEM. PART NO. NAME STOCK MATERIAL SPEC. HT. T. FINISH EST. WT. ACT. WT.

67638-9

1	67638-9	13106578	BEARING TUBE	STANDARD	EQUIV. TO 67638-16	
1	67638-9	13106574	BEARING TUBE	STANDARD	EQUIV. TO 67638-37	
2	67638-9	1006-7	LUBRICATOR	STANDARD	EQUIV. TO 67638-74	
1	67638-9	310897-2	BUSHING	STANDARD	EQUIV. TO 67638-76	
1	67638-9	310897-1	BUSHING	STANDARD	EQUIV. TO 67638-19	
1	67638-9	310657-78	VERTICAL TUBE	1/4 O.D. X .049 I.I.D.	STEEL 4178	
1	1-9	1-7	PLATE	.065 ± .002 R.T.M	47514	
1	1-9	2-1	STRAP	.035 ± .004 R.T.M	47514	
1	1-9	1-7	BEARING TUBE	1/2 O.D. X .085 I.I.D.	47514	
2	1-9	1-7	PLATE	.035 ± .004 R.T.M	47514	
1	1-9	1-7	STRAP	.035 ± .004 R.T.M	47514	
1	1-9	1-7	PLATE	.065 ± .002 R.T.M	47514	
1	1-9	1-7	TUBE HORIZONTAL	1/2 O.D. X .085 I.I.D.	47514	
1	1-9	1-7	TUBE TYPICAL	1/2 O.D. X .085 I.I.D.	STEEL 47514	
1	1-9	1-7	PLATE	.065 ± .002 R.T.M	PHOS. COPPER	
1	1-9	1-7	PLATE	.065 ± .002 R.T.M	47514	
1	1-9	1-7	PLATE	.065 ± .002 R.T.M	47514	
1	1-9	1-7	PLATE	.065 ± .002 R.T.M	47514	
1	1-9	1-7	PLATE	.065 ± .002 R.T.M	47514	
1	1-9	1-7	PLATE	.065 ± .002 R.T.M	47514	
1	1-9	1-7	PLATE	.065 ± .002 R.T.M	47514	
1	1-9	1-7	PLATE	.065 ± .002 R.T.M	47514	
1	1-9	1-7	PLATE	.065 ± .002 R.T.M	47514	

-9 WELD ASSEMBLY

RUDDER PEDAL ASSEMBLY

ARMED & READY

SCALE FULL SIZE

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

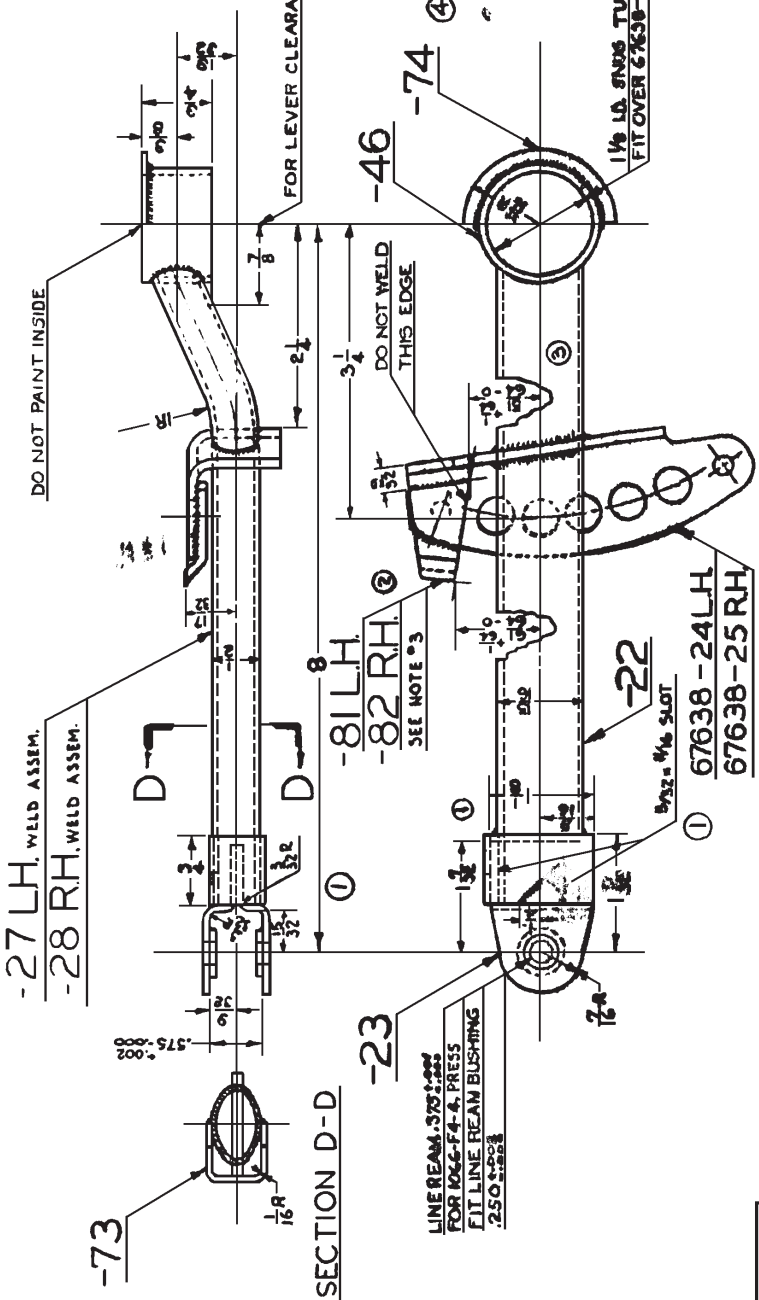
67638-9

Sub. 252049.

67638 -21

NOTES:

1. WELD -24 & -25 IN PLACE BEFORE -23 & -72.
2. FINISH ALL TUBES TO CONFORM WITH SPEC. PC-8.
3. FOR RECORD ONLY: ON AIRPLANES PRIOR TO #2779, ARM STOP SHOWN ON SK. 1567 WAS USED.
4. PARTS MARKED THUS ⓐ ARE DETAILED ON INDIVIDUAL DWGS.

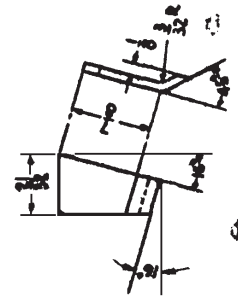


N3N-3	NO. 12.
MODEL	BUREAU AERO CHARGE

NO. REG.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	MT. T.	FINISH	REF. WT. ACT. WT.
1	67638-11	106674-4	BUSHING		STEEL			
2	67638-28	67638-82	STOP R.H.		100% 1/16 ± 1/16			67194
3	67638-28	1-81	STOP L.H.		100% 1/16 ± 1/16			
4	67638-28	1-82	STOP R.H.		100% 1/16 ± 1/16			
5	67638-28	1-83	STOP L.H.		100% 1/16 ± 1/16			
6	67638-28	1-84	STOP R.H.		100% 1/16 ± 1/16			
7	67638-28	1-85	STOP L.H.		100% 1/16 ± 1/16			
8	67638-28	1-86	STOP R.H.		100% 1/16 ± 1/16			
9	67638-28	1-87	STOP L.H.		100% 1/16 ± 1/16			
10	67638-28	1-88	STOP R.H.		100% 1/16 ± 1/16			
11	67638-28	1-89	STOP L.H.		100% 1/16 ± 1/16			
12	67638-28	1-90	STOP R.H.		100% 1/16 ± 1/16			
13	67638-28	1-91	STOP L.H.		100% 1/16 ± 1/16			
14	67638-28	1-92	STOP R.H.		100% 1/16 ± 1/16			
15	67638-28	1-93	STOP L.H.		100% 1/16 ± 1/16			
16	67638-28	1-94	STOP R.H.		100% 1/16 ± 1/16			
17	67638-28	1-95	STOP L.H.		100% 1/16 ± 1/16			
18	67638-28	1-96	STOP R.H.		100% 1/16 ± 1/16			
19	67638-28	1-97	STOP L.H.		100% 1/16 ± 1/16			
20	67638-28	1-98	STOP R.H.		100% 1/16 ± 1/16			
21	67638-28	1-99	STOP L.H.		100% 1/16 ± 1/16			
22	67638-28	1-100	STOP R.H.		100% 1/16 ± 1/16			

-20 LH ASSEM. AS SHOWN
-21 RH ASSEM. OPPOSITE

BREAK ALL SHARP EDGES WITH 1/64 R.



ⓐ -81 LH, AS SHOWN
ⓑ -82 RH, OPPOSITE

DESIGNED FOR	ALTERNATIONS
CHECKED	APPROVAL
SUPERVISOR	STRUCTURE
CHIEF DRAFT	PROJ. ENG.
LET. ENG.	

SCALE	67638 -21
FULL SIZE	67638 -20
NAVY YARD	NAVAL AIRCRAFT FACTORY PHILADELPHIA

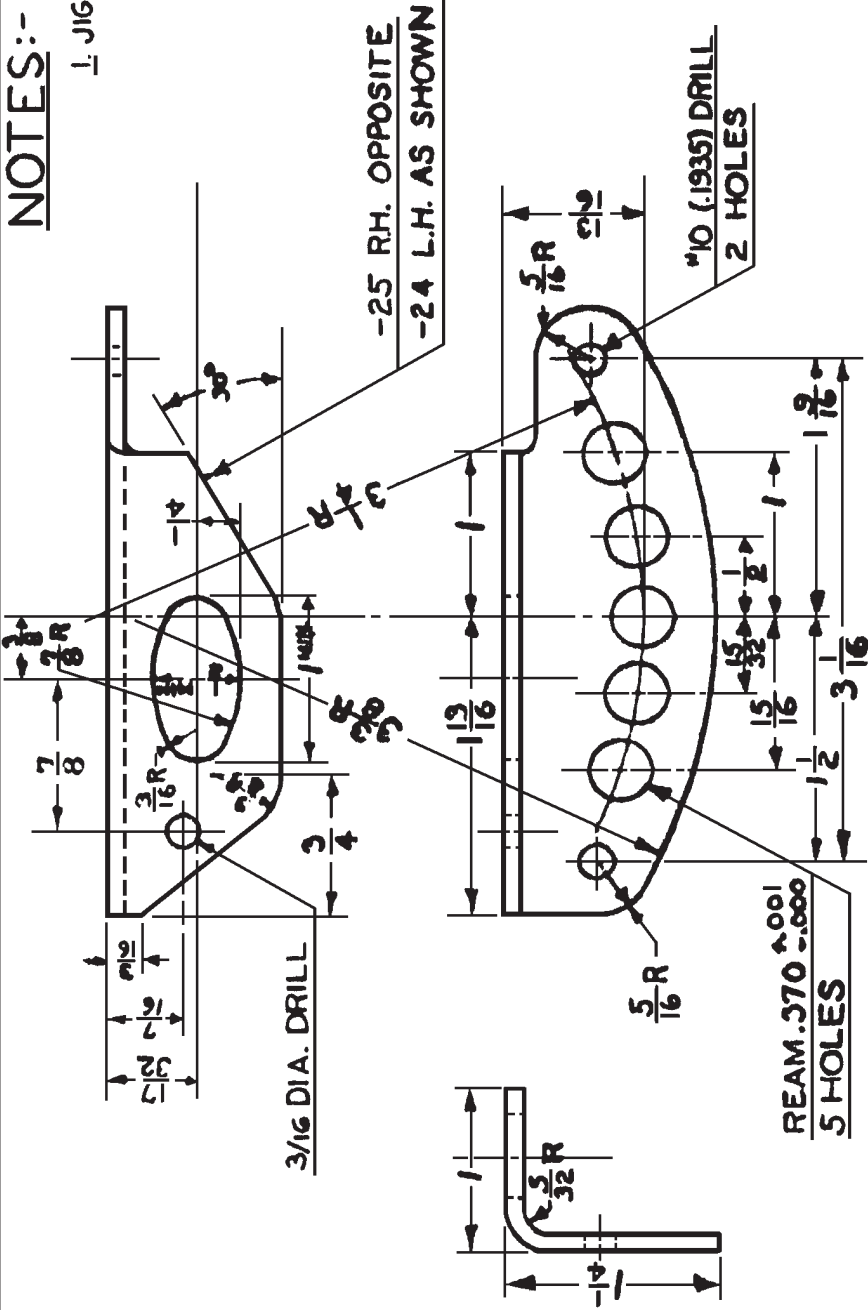
ARM-RUDDER PEDAL

67638-25
-24

Loc. 26201401

NOTES:-

J. JIG DRILL ALL HOLES



REAM .070 ±.001
5 HOLES

W	NO. REQ.	67638-25	ASSEM.	PART NO.	DESIGNED FOR			STOCK	MATERIAL	SPEC.	HT. T.	UT.S. FINISH	EST. WT.	ACT. WT.
					SEGMENT - RH	SEGMENT - L.H.	NAME							
1	1				SEGMENT - RH		STEEL	47314						.2
1	1				SEGMENT - L.H.		STEEL							.2
3N-3					DIMENSIONS ARE IN INCHES. LIMITS ±									
					DRAWN									
					TRACED									
					CHECKED									
					SUPERVISOR									
					STRUCTURE									
					CHIEF DRAFT.									
					PROJ. ENG.									
					ASST. CH'F. ENG.									
					APPROVAL									

**SEGMENT
RUDDER PEDAL**

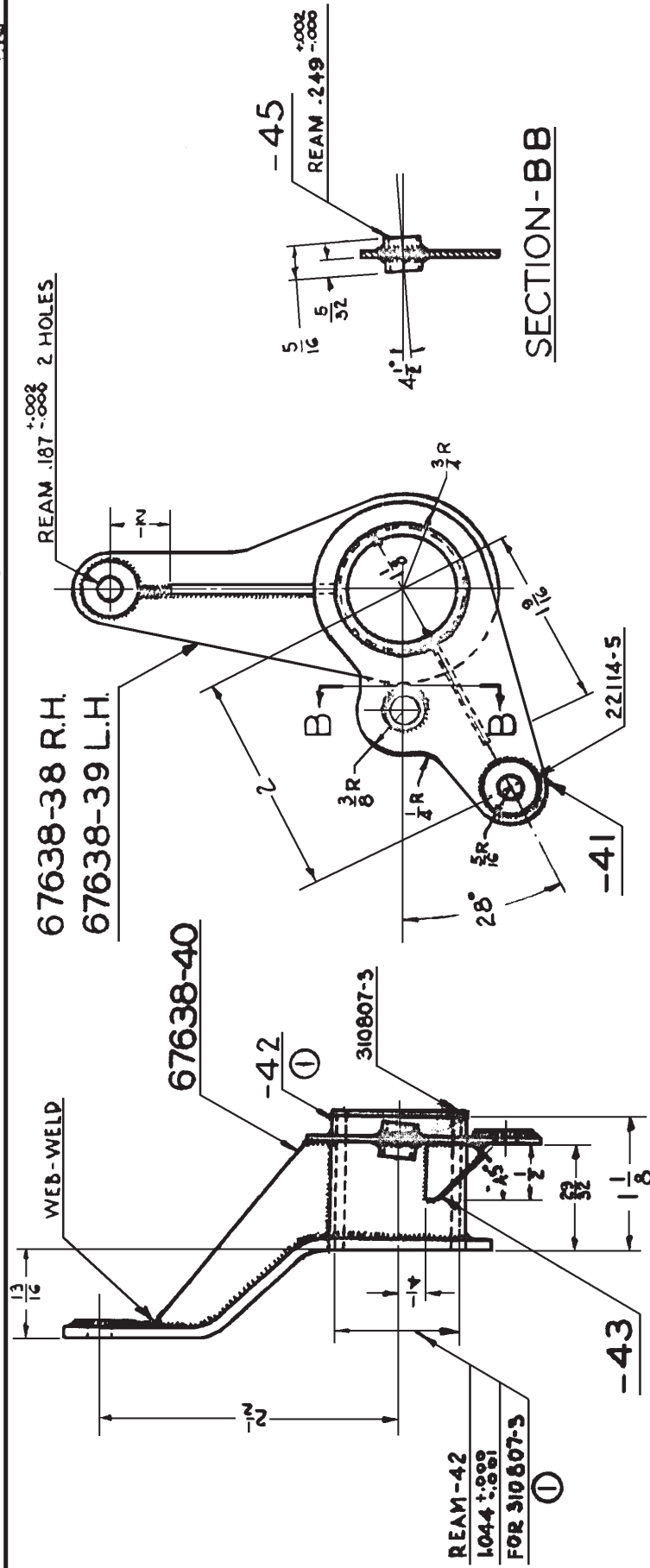
SUPERSEDED BY
SCALE
FULL SIZE

67638-25

REF. DRAWING NO.

NAVAL AIRCRAFT FACTORY PHILADELPHIA

Ord. 2120140



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
2	67638	22114-5	WASHER		STANDARD					
1	3	10007-3	BUSHING							
1	3	67638-42	SHAFT		STEEL	44T18				
1	3	1-45	TUBE		STEEL	44T18				
1	3	1-43	GUSSET		STEEL	47514				
1	3	1-41	LEVER		STEEL	47514				
1	3	1-40	GUSSET							
1	3	1-39	LEVER							
1	3	1-38	LEVER							
1	3	1-34	WELD ASSEMBLY FRONT							
1	3	1-33	WELD ASSEMBLY FRONT							
1	3	1-30	LINK							
1	3	67638-28	LINK							
← DESIGNED FOR DIMENSIONS ARE IN INCHES, LIMITS ±										
ALTERNATIONS										

N3N-3

LINK - RUDDER PEDAL FRONT

SCALE FULL SIZE

REF. DRAWING NO. 67638-30

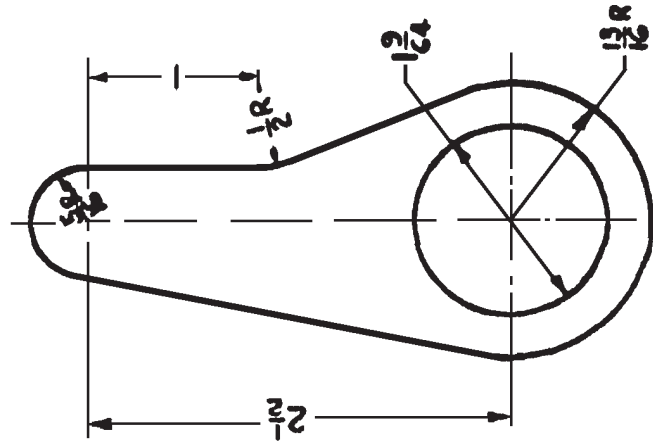
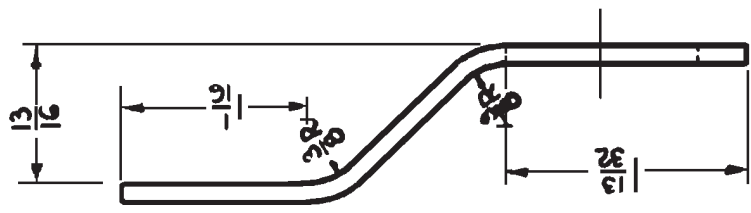
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

SUPERSEDED BY 67638-30

UNLESS OTHERWISE NOTED, DECIMALS ±.010, ANGLES ±.4°

67638-39

67638-38

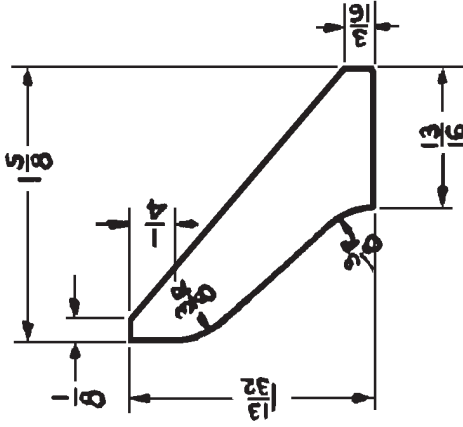


LH.OPPSITE-39
R.H.SHOWN-38

1	67638-39	67638-39	LEVER L. H.	.083 x 1/16 x 4	STEEL	47514					
1	67638-38	67638-38	LEVER R. H.	.083 x 1/16 x 4	STEEL	47514					
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U. T. S.	FINISH	EST. WT.	ACT. WT.
N3N-3			DIMENSIONS ARE IN INCHES. LIMITS ±								
ALTERNATIONS			DECIMALS ± .010, ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.								
DRAWN			LEVER - RUDDER PEDAL								
TRACED			BRAKE LINK - DETAIL								
CHECKED			SUPERSEDES								
SUPERVISOR			SCALE								
STRUCTURE			FULL SIZE								
CHIEF DRAFT.			REF. DRAWING NO. 67638-39								
PROJ. ENG.			NAVAL AIRCRAFT FACTORY PHILADELPHIA								
ASST. CHIEF. ENG.			APPROVAL								
APPROVAL			MA								

67638-40

Rev. 2/20/40.



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U. T. S.	FINISH	EST. WT.	ACT. WT.
1	67638-40	67638-40	GUSSET	065 #1/16 x 2-3/16	STEEL	A7S14	—	—	—	—	—
<p>N3N-3 ←DESIGNED FOR DIMENSIONS ARE IN INCHES, LIMITS ±</p>											
<p>ALTERNATIONS</p>											
<p>DRAWN TRACED DAPE</p>											
<p>CHECKED DAPE</p>											
<p>SUPERVISOR DAPE</p>											
<p>STRUCTURE DAPE</p>											
<p>CHIEF DRAFT. DAPE</p>											
<p>PROJ. ENG. DAPE</p>											
<p>ASST. CHIEF. ENG. DAPE</p>											
<p>APPROVAL DAPE</p>											
<p>SUPERSEDED BY</p>											
<p>SCALE FULL SIZE</p>											
<p>REF. DRAWING NO. 67638-40</p>											
<p>NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA</p>											

GUSSET-RUDDER
BRAKE LINK - DETAIL

67638-47

Rev. 2/20/40.

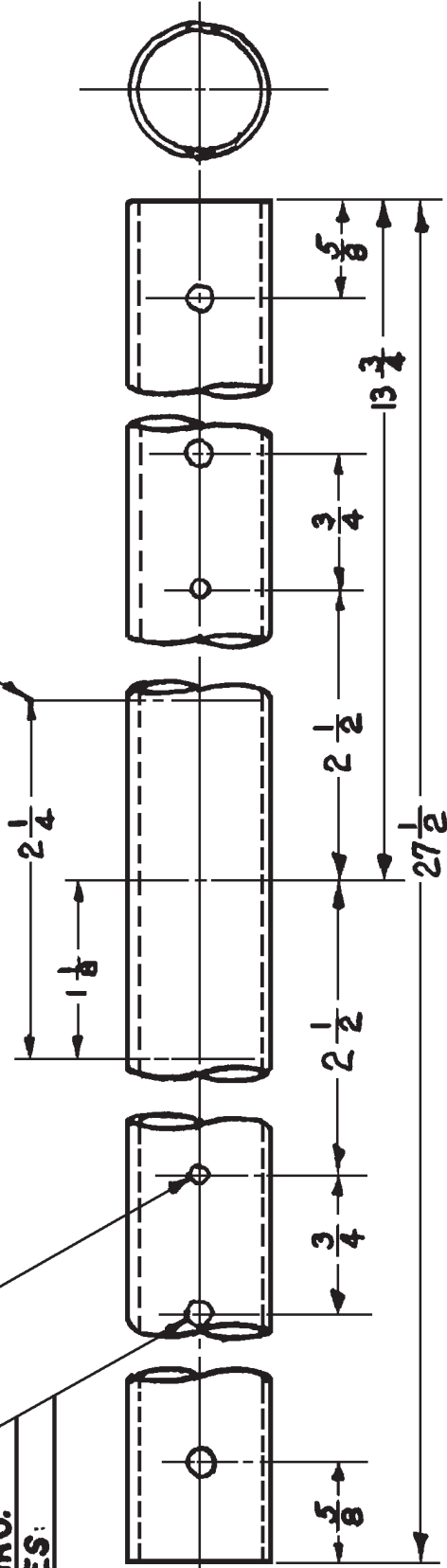
NOTES:-

1. JIG DRILL ALL HOLES

Ø 29 (136) DRILL.
2 HOLES THRU
ONE SIDE ONLY

REAM .190^{+0.008}_{-0.008}
DIA. THRU.
4 HOLES:

PAINT THIS LENGTH ONLY



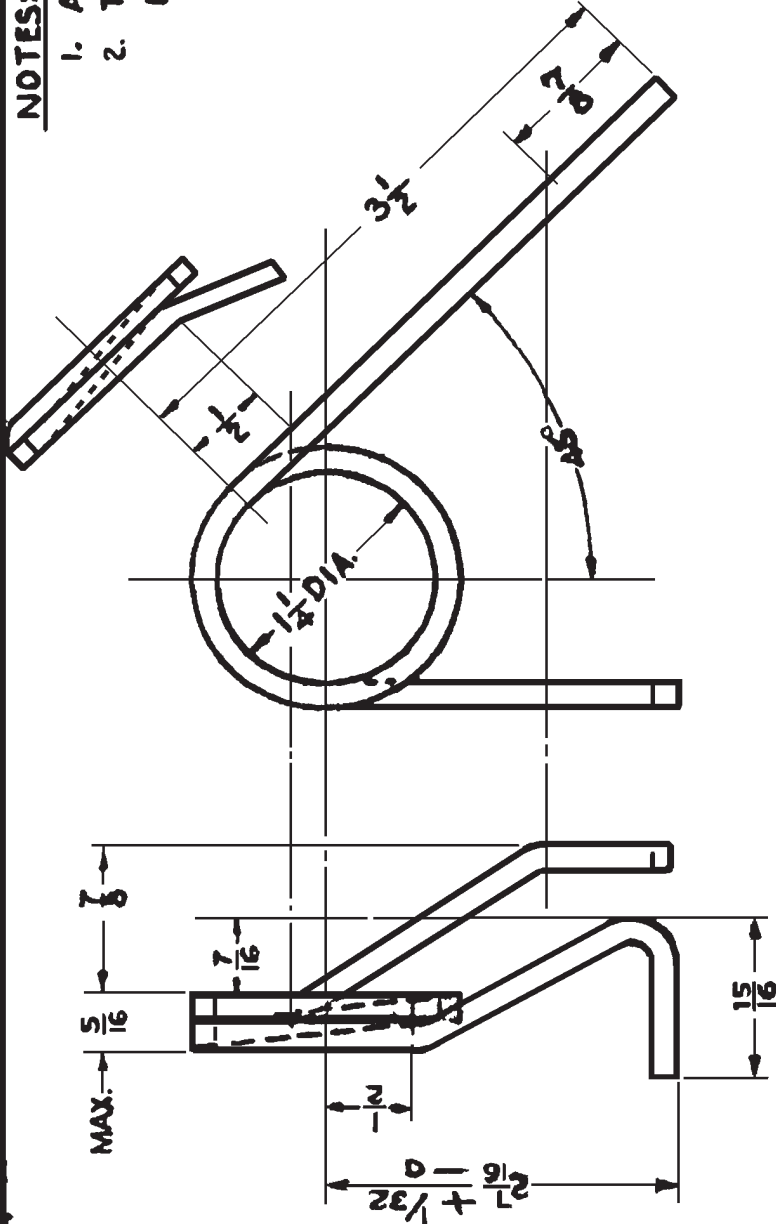
W1	1	67638-47	SHAFT	7/8 O.D. X .065	STEEL	4718	PMS-10	125.000	1.3
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U. T. S.	FINISH
N3N-3		67638-47	SHAFT						
DESIGNED FOR				DIMENSIONS ARE IN INCHES. LIMITS ±					
ALTERNATIONS				DRAWN					
				TRACED					
				CHECKED					
				SUPERVISOR					
				STRUCTURE					
				CHIEF DRAFT.					
				PROJ. ENG.					
				ASST. CNF. ENG.					
				APPROVAL					
				SUPERSEDES					
				SCALE					
				FULL SIZE					
				REF. DRAWING NO.					
				67638-47					
				SUPERSEDES					
				NAVAL AIRCRAFT FACTORY PHILADELPHIA					

SHAFT
RUDDER PEDAL

67638-49

NOTES:

1. ALL SMALL BENDS 1/8 INSIDE RAD
2. TREAT ACCORDING TO SPEC. PH-4 PARA. B-2A.

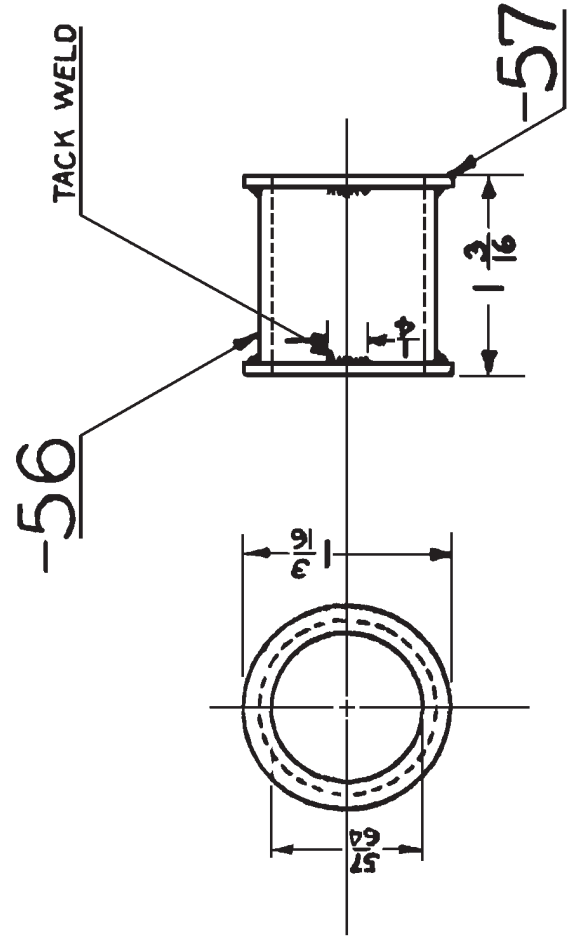


Sub. 20140

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S. / SQ. IN.	FINISH	EST. WT.	ACT. WT.
W	N3N-3										
W											
DIMENSIONS ARE IN INCHES. LIMITS ±											
DRAWN TRACED											
CHECKED											
SUPERVISOR											
STRUCTURE											
CHIEF DRAFT.											
PROJ. ENG.											
ASST. CHIEF. ENG.											
APPROVAL											
ALTERNATIONS											
SUPERSEDED BY											
SCALE											
FULL SIZE											
REF. DRAWING NO.											
67638-49											
SUPERSEDED											
RUDDER PEDAL											
NAVY YARD PHILADELPHIA											
NAVAL AIRCRAFT FACTORY PHILADELPHIA											

11 2/20/40.

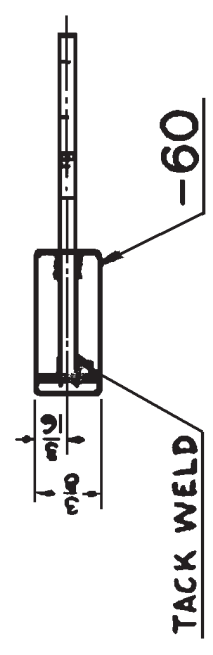
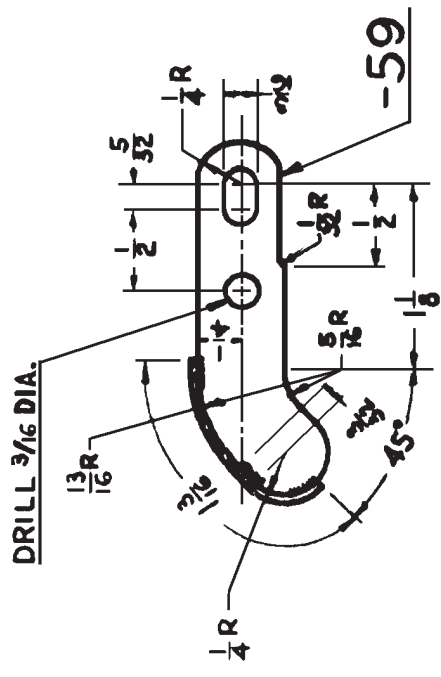
67638-55



2	67638-55	67638-57	FLANGE	.049 X 1 13/16 DIA	17514										
1	67638-55	67638-57	FLANGE	1 13/16 DIA	17514										
8	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U. I. S.	FINISH	EST. WT.	ACT. WT				
N3N-3		←DESIGNED FOR			DIMENSIONS ARE IN INCHES, LIMITS ±										
				DRAWN				DECIMALS ±.010, ANGLES ±1/4°, UNLESS OTHERWISE NOTED.							
				TRACED											
				CHECKED											
				SUPERVISOR											
				STRUCTURE											
				CHIEF DRAFT.											
				PROJ. ENG.											
				ASST. CHIEF. ENG.											
				APPROVAL											
				ALTERNATIONS				SUPERSEDED BY				RUDDER PEDALS - WELD ASSEMBLY			
				SCALE				SUPERSEDES							
				FULL SIZE				REF. DRAWING NO.				67638-55			
				NAVY YARD				NAVAL AIRCRAFT FACTORY				PHILADELPHIA			

67638-58

Inv. 2/20/40.



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
1	67638-58	67638-60	GUARD		.035 x 3/8 x 1 3/16	STEEL	47S14	—	—	—	—
1	67638-58	67638-59	LEVER		.100 x 7/8 x 2 3/16	STEEL	47S14	—	—	—	—
2	67638-58	67638-50	LEVER ASSEMBLY								
DIMENSIONS ARE IN INCHES, LIMITS ±											

DESIGNED FOR

ALTERNATIONS

DRAWN TRACED

CHECKED

SUPERVISOR

STRUCTURE

CHIEF DRAFT.

PROJ. ENG.

ASST. CH.F. ENG.

APPROVAL

LEVER - RUDDER ADJUSTING - ASSEMBLY

SUPERSEDED BY

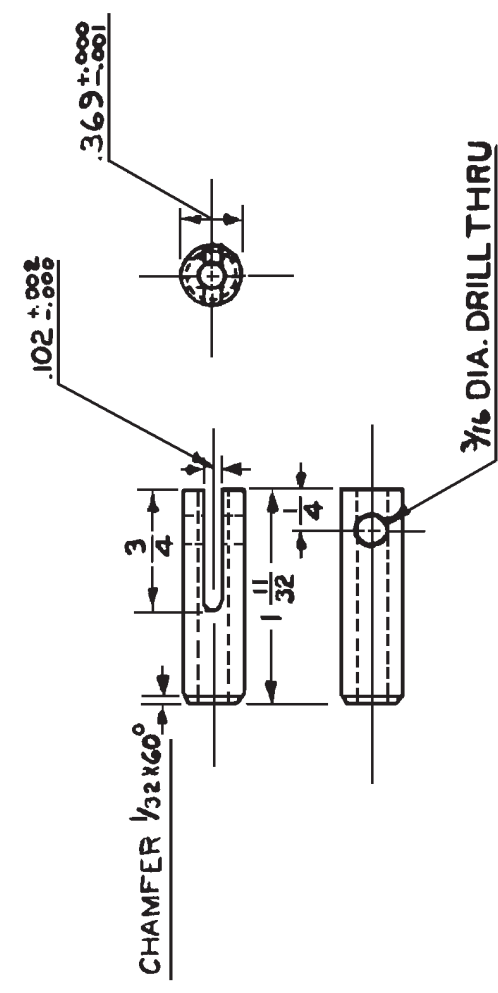
SCALE FULL SIZE

REF. DRAWING NO. 67638-58

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

67638-61

Ed. 2/20/40



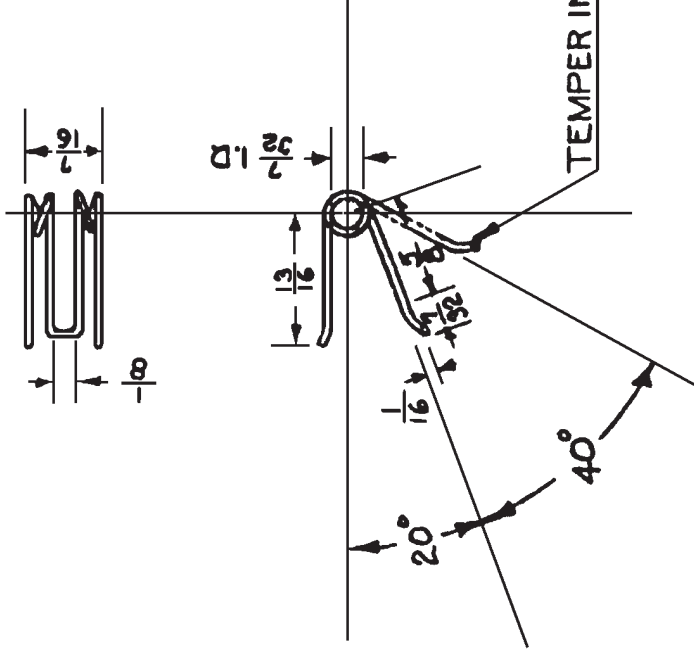
2	67638-61	PIN	STEEL	4478	—	—	—	—	—
NO. REQ.	ASSEM.	PART NO.	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT
N3N-3		--DESIGNED FOR	DIMENSIONS ARE IN INCHES. LIMITS ± DECIMALS ± .010. ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.						
ALTERNATIONS			DRAWN TRACED						
			CHECKED						
			SUPERVISOR						
			STRUCTURE						
			CHIEF DRAFT.						
			PROJ. ENG.						
			ASST. CH'F. ENG.						
			APPROVAL						
			PIN-RUDDER PEDALS						
			ADJUSTING						
			SUPERSEDES						
			SCALE						
			FULL SIZE						
			REF. DRAWING NO.						
			67638-61						
			NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA						

602 3/22/40.

67638-62

NOTES:

- 1. TEMPER AT 600°F AFTER FORMING. BAKE FOR 3 HRS AT 400°F AFTER PLATING



2	67638-62	67638-62	SPRING	.033 DIA. X 3	ST. WIRE 22WII	NOTED			
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U. T. S. #/SQ. IN.	FINISH EST. WT. ACT. WT
N3N-3									
DESIGNED FOR			DIMENSIONS ARE IN INCHES. LIMITS ±						
ALTERNATIONS			DRAWN TRACED						
			CHECKED						
			SUPERVISOR						
			STRUCTURE						
			CHIEF DRAFT.						
			PROJ. ENG.						
			ISSY. CH'F. ENG.						
			APPROVAL						
			SUPERSEDED BY						
			SCALE						
			FULL SIZE						
			REF. DRAWING NO.						
			67638-62						
			SUPERSEDED BY						
			NAVAL AIRCRAFT FACTORY PHILADELPHIA						

SPRING--RUDDER PEDALS
ADJUSTING

DETAIL

67638-62

NAVAL AIRCRAFT FACTORY PHILADELPHIA

67638-79
67638-63

Arch. 2/20/40.

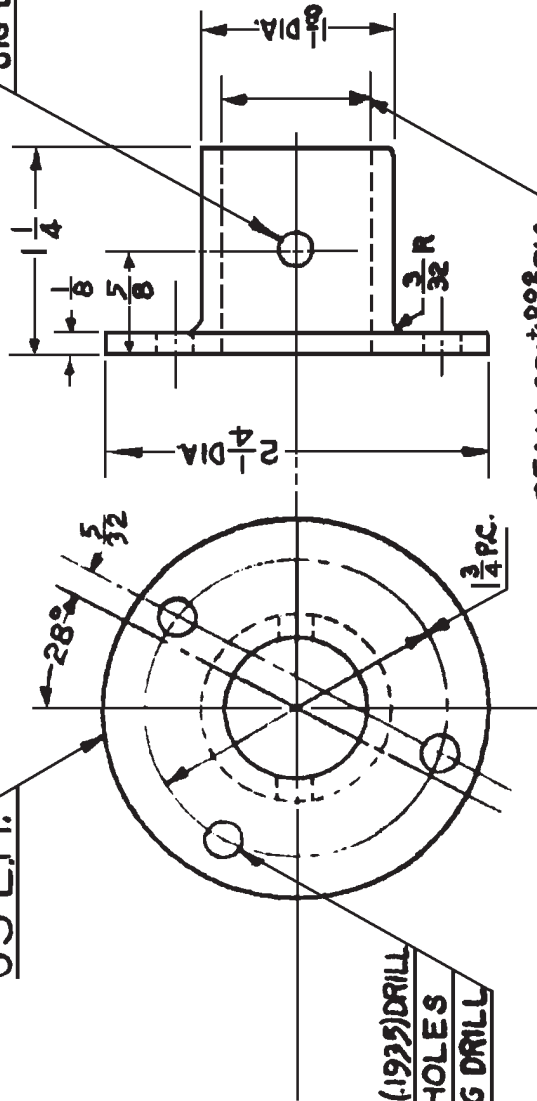
NOTES:

1. DO NOT PAINT INSIDE.

79 R.H.
63 L.H.

REAM .190 ±.002 DIA. THRU.

JIG DRILL



REAM .881 ±.002 DIA.

#10 (1925) DRILL
2 HOLES
JIG DRILL

NO. REQ.	ASSEM.	PART NO.	DESIGNED FOR	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U. T. S. / SQ. IN.	FINISH	EST. WT.	ACT. WT.
1	67638-79	67638-79	SUPPORT-RH	ALUM	2 1/4 DIA. x 1 1/4	ALUM	46A9 SR53	6200	46A9 SR53	6200	46A9 SR53	
1	67638-63	67638-63	SUPPORT-LH	ALUM	2 1/4 DIA. x 1 1/4	ALUM	46A9 SR53	6200	46A9 SR53	6200	46A9 SR53	
N3N-3			DIMENSIONS ARE IN INCHES. LIMITS ±									
			DECIMALS ±.010. ANGLES ±1/2°. UNLESS OTHERWISE NOTED.									
			DRAWN									
			TRACED									
			CHECKED									
			SUPERVISOR									
			STRUCTURE									
			CHIEF DRAFT.									
			PROJ. ENG.									
			ASST. CHIEF. ENG.									
			APPROVAL									
			ATTENTIONS									
			SUPERSEDED BY									
			SCALE									
			FULL SIZE									
			REF. DRAWING NO.									
			67638-79									
			SUPERSEDES									
			NAVY YARD									
			NAVAL AIRCRAFT FACTORY									
			PHILADELPHIA									

SUPPORT-RH

SUPERSEDES

67638-79

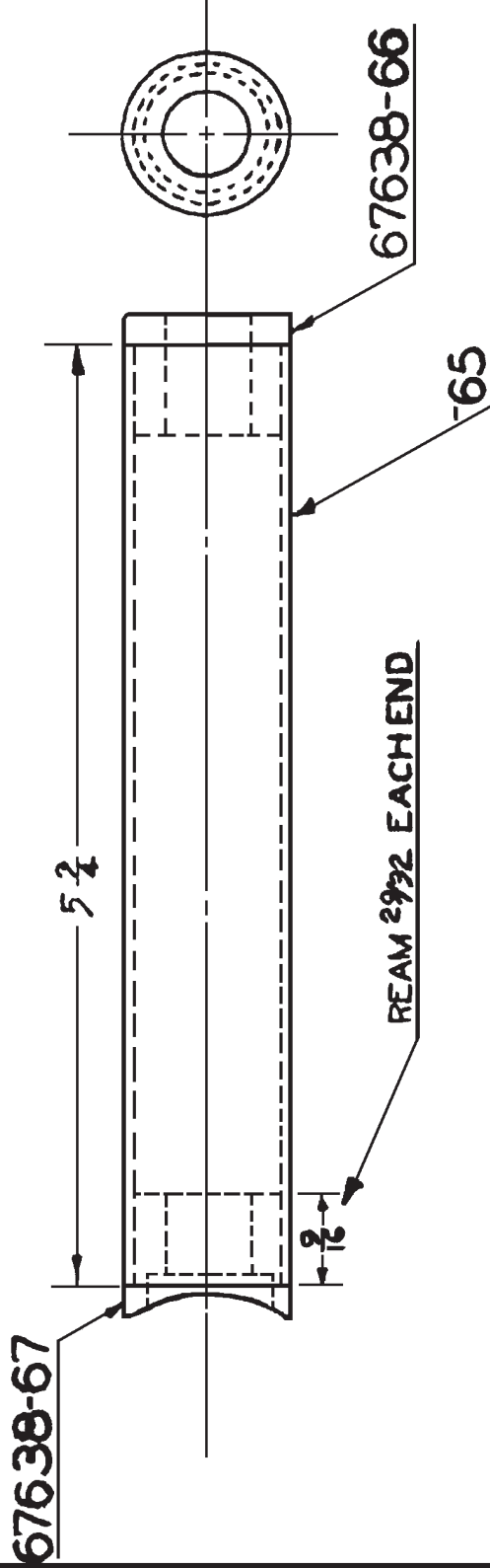
NAVAL AIRCRAFT FACTORY PHILADELPHIA

67638-64

Ord. 2420/40.

NOTES:—

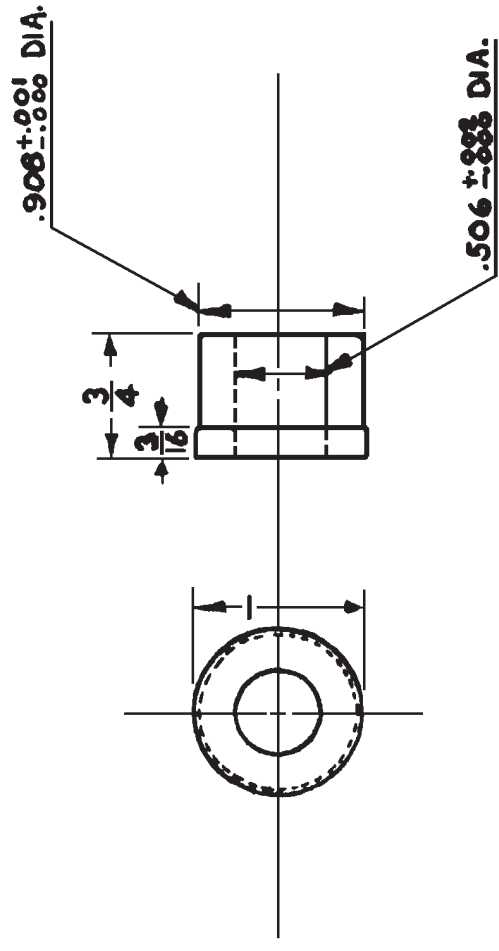
1. DO NOT PAINT INSIDE OF BUSHINGS



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
1	67638-64	67638-64	BUSHING								
1	67638-64	67638-64	BUSHING								
1	67638-64	67638-64	BUSHING	10.0 ± .050 ± 5/16	ALUMINUM	44123					
1	67638-64	67638-64	BUSHING								
<p>ALTERATIONS</p> <p>---DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± DECIMALS ± .010. ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.</p>											
<p>SPREADER</p> <p>RUDDER PEDAL ASSEMBLY</p> <p>SUPERSEDES</p>											
<p>SCALE</p> <p>67638-64</p> <p>REF. DRAWING NO.</p>											
<p>NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA</p>											

h.d. 2/20/40.

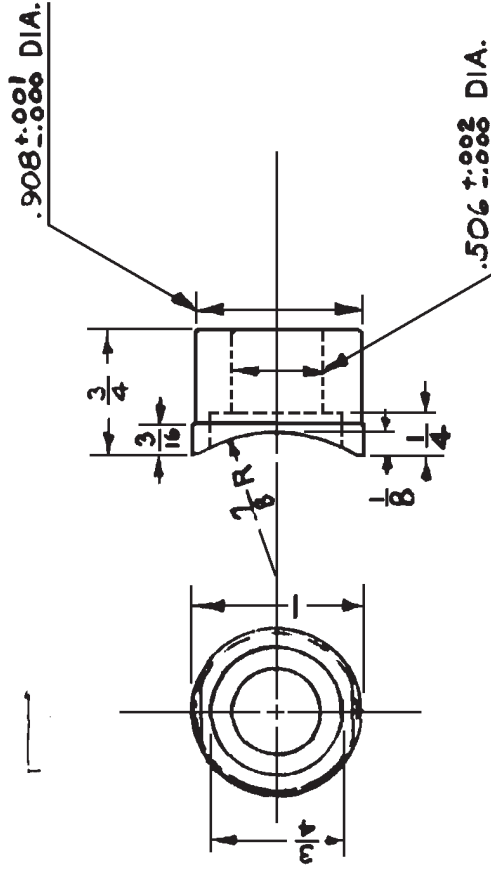
67638-66



1	67638-64	67638-66	BUSHING	1 DIA. x 3/4	AL. ALLOY 46A9	SR-53	Q2000	—	—
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH
N3N-3								1/ SQ. IN.	EST. WT. ACT. WT
←DESIGNED FOR				DIMENSIONS ARE IN INCHES, LIMITS ±					
ALTERNATIONS				DECIMALS ± .010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.					
DRAWN				BUSHING - RUDDER PEDALS					
TRACED				SPREADER-INBOARD - DETAIL					
CHECKED				SUPERSEDED BY					
SUPERVISOR				SCALE					
STRUCTURE				FULL SIZE					
CHIEF DRAFT.				REF. DRAWING NO.					
PROJ. ENG.				67638-66					
ASST. CH'F. ENG.				SUPERSEDED BY					
APPROVAL				NAVAL AIRCRAFT FACTORY PHILADELPHIA					

67638-67

h.d. 2/20/40



1	67638-64	67638-67	BUSHING	1 DIA. x 3/4	AL. ALLOY 46A9 SR-53	62000	---	---
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	MT. T.	FINISH	ACT. WT.
						1/100 IN.		
DESIGNED FOR				DIMENSIONS ARE IN INCHES. LIMITS ±				
N3N-3				UNDERWOOD	11-6-30	DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.		
ALTERNATIONS				CHECKED	1-8-40	BUSHING - RUDDER PEDALS		
				SUPERVISOR	1-8-40	SPREADER-OUTBOARD-ASSEMBLY		
				SUPERVISOR	1-8-40	SUPERSEDED BY		
				STRUCTURE	1-8-40	SCALE		
				CHIEF DRAFT.	1-8-40	FULL SIZE		
				PROJ. ENG.	1-8-40	REF. DRAWING NO.		
				ASST. CNF. ENG.	1-8-40	67638-67		
						NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA		

C.D. 2/28/40

67638-68

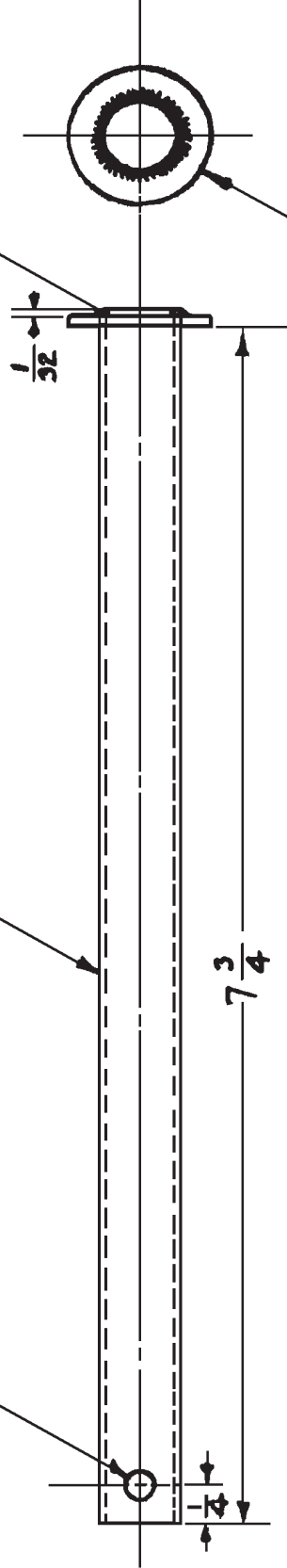
NOTES:

- 1. ASSEMBLY TO BE FINISHED PF-1-106 EXCEPT THAT OUTSIDE OF TUBE SHALL NOT BE PAINTED.

#10 (.1935) DRILL

-69

WELD THIS SIDE ONLY



1	67638-68	ANS60-816	WASHER	ST'D.	---	---	---	---	---	---	---
1	67638-68	20-69	TUBE	12 O.D. x .035 x 7 3/8	STEEL	44T19	---	---	---	---	---
2	67638-68	67638-68	SHAFT ASS'Y	---	---	---	---	---	---	---	---
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U. T. S.	FINISH	EST. WT.	ACT. WT.
N3N-3											

DIMENSIONS ARE IN INCHES. LIMITS ±											
SHAF-T-RUDDER PEDAL SPREADER WELD											
SUPERSEDES											
SCALE											
FULL SIZE											
REF. DRAWING NO. 67638-68											
SUPERSEDES											
NAVY YARD PHILADELPHIA											

ALTERATIONS											
DRAWN TRACED											
CHECKED											
SUPERVISOR											
STRUCTURE											
CHIEF DRAFT.											
PROJ. ENG.											
ASST. CH'F. ENG.											
APPROVAL											

67638-80

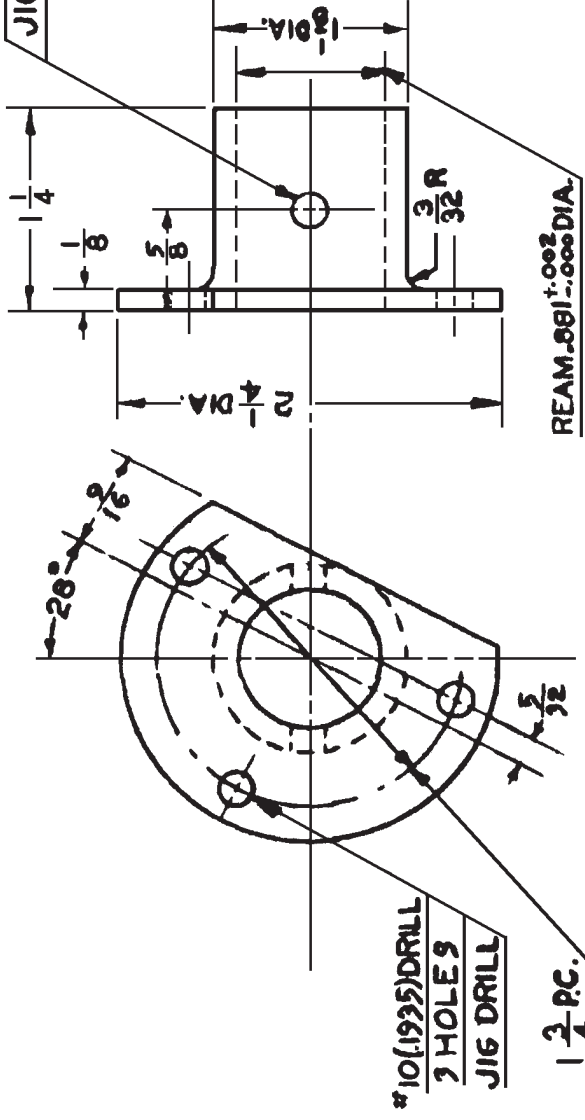
Inv'd. 2/20/40.

NOTES:

1. DO NOT PAINT INSIDE.

REAM .190 ±.002 DIA. THRU

JIG DRILL



W	1	67638-3	67638-80	SUPPORT	2 1/4 DIA. ± .124	ALUM. ALLOY	4649	9R57	62000	FFAC 32

SUPPORT-RUDDER PEDALS SHAFT-FRONT DETAIL

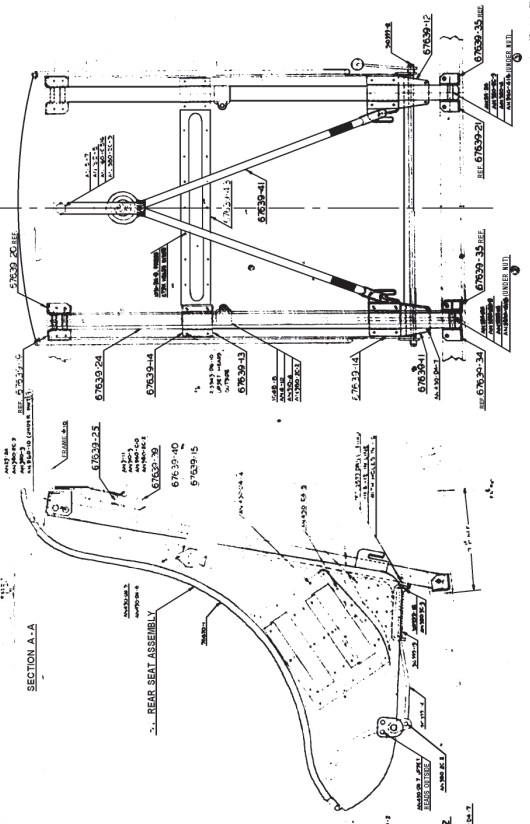
DRAWN		UPPER		2-207		MATERIAL SPEC.		HT. T.		FINISH		EST. WT.		ACT. WT.	
TRACED		CHECKED		SUPERVISOR		STRUCTURE		CHIEF DRAFT.		PROJ. ENG.		ASST. CHT. ENG.		APPROVAL	

NAVAL AIRCRAFT FACTORY PHILADELPHIA

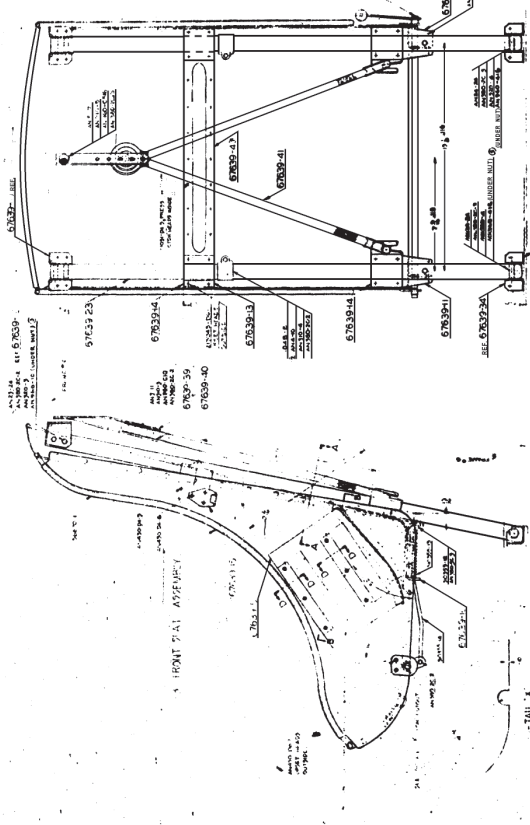
REV	DATE	DESCRIPTION
1	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
2	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
3	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
4	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
5	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
6	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
7	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
8	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
9	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
10	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
11	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
12	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
13	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
14	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
15	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
16	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
17	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
18	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
19	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES
20	11/14/59	REVISED TO SHOW CHANGES TO FRONT AND REAR SEAT ASSEMBLIES

NOTE: BAL CHARGE 1/26/60 SHOULD BE INCORPORATED INTO SHEET 67639-2

2 INSTALLATION REAR SEAT



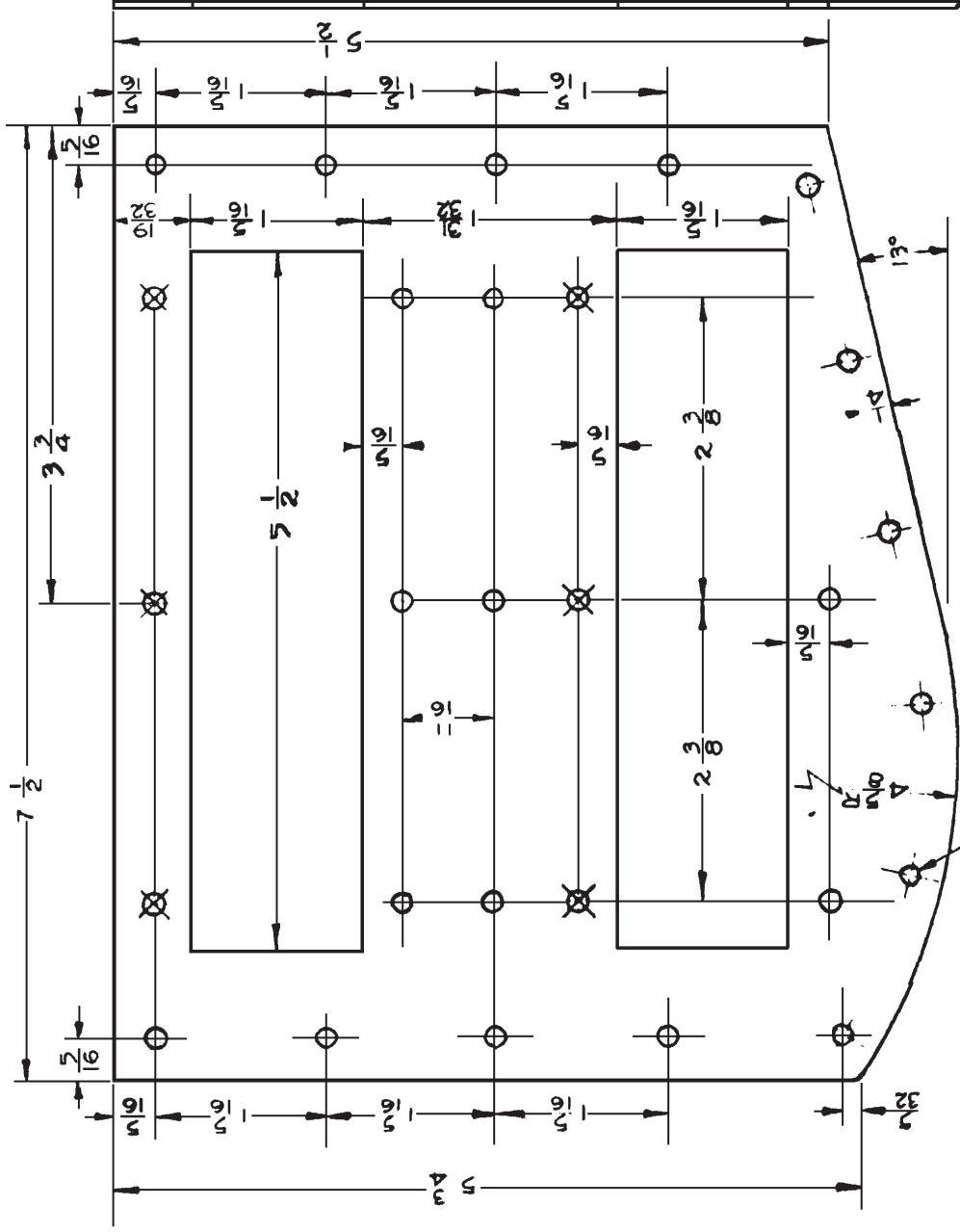
1 INSTALLATION FRONT SEAT



5-63919

Order 7/11/44

NOTES: 1. BREAK ALL CORNERS AND EDGES.



#30 (.1285) DRILL 2 HOLES

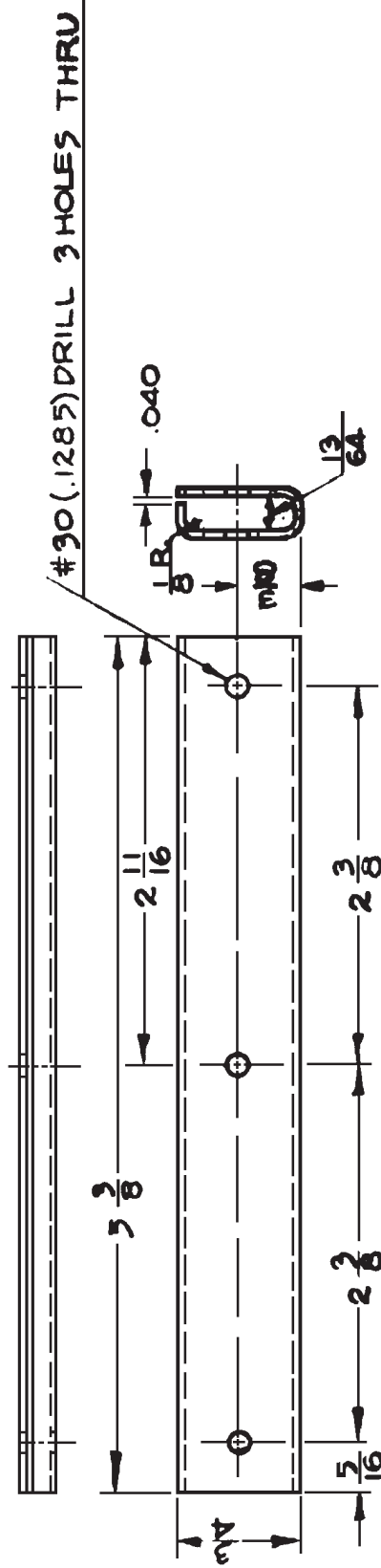
DRILL #30 (.1285) 6 HOLES
 MARKED THUS ON ASSEM.
 WITH 67639-6

2	2	67639-3	67639-3	PLATE-REINF.	.040x7x7 1/2	47A10	5R-23	62000	PF-140
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	UTS.	FINISH
← DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010, ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.									
ALTERATIONS									
DRAWN		5/11/44		7-1		7-8-46		7-10-46	
TRACED		G		K		K		K	
CHECKED		K		K		K		K	
SUPERVISOR		K		K		K		K	
STRUCTURE		K		K		K		K	
CHIEF DRAFT.		K		K		K		K	
PROJ. ENG.		K		K		K		K	
ASST. ENGR.		K		K		K		K	
APPROVAL		K		K		K		K	
SUPERSEDED BY									
SCALE									
FULL SIZE									
REF. DRAWING NO.									
67639-5									
SUPERSEDED BY									
PILOTS SEAT									
SAFETY BELT-REINF. DETAIL									
NAVAL AIRCRAFT FACTORY PHILADELPHIA									

67639-6

67639-6

NOTES: 1. BREAK ALL CORNERS AND EDGES.

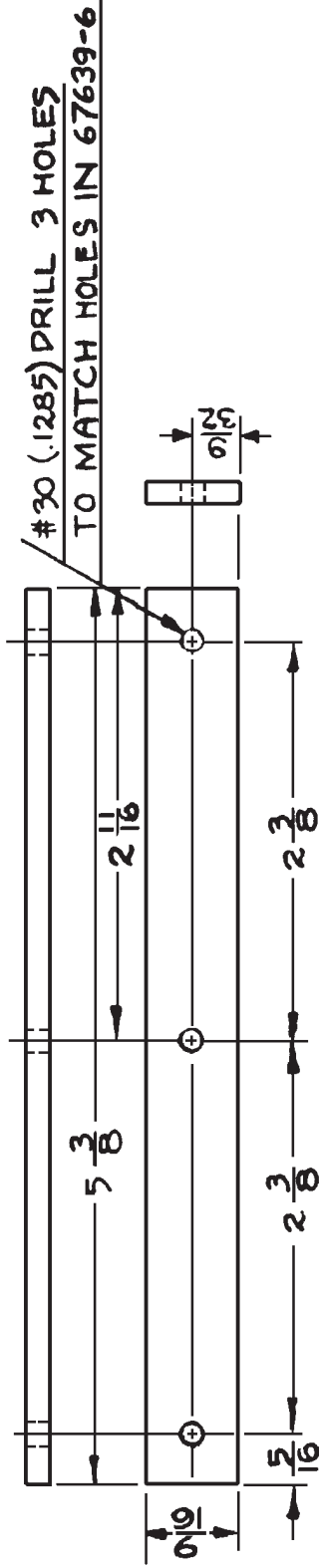


4	4	67639-6	67639-6	BEAD	NAME	.040 x 2 x 5 3/8	ALUM ALLOY	47A10	9R-53	62,000	P-140		
NO. REQ.		ASSEM.	PART NO.	DESIGNED FOR	DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.			MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT. ACT. WT.
NSN-3		ALTERNATIONS											
		DRAWN			Simpson								
		CHECKED			Carl in								
		SUPERVISOR			Keplin	7-5-40							
		STRUCTURE											
		CHECKED DRAFT.			Weld	7-8-40							
		PROG. ENG.			Weld	7-9-40							
		ASST. CFT. ENG.			Bornaly	7-10-40							
		APPROVAL											
					BEAD - SAFETY BELT			PILOTS SEAT					
					SUPERSEDED BY			DETAIL					
					SCALE			SUPERSEDES					
					FULL SIZE			67639-6					
					REF. DRAWING NO.			NAVAL AIRCRAFT FACTORY PHILADELPHIA					

Loch, 7/11/40

67639-7

NOTES: BREAK ALL CORNERS
AND EDGES.



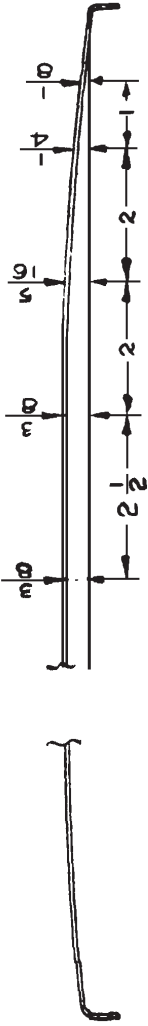
4	4	67639-7	67639-7	SPACER	1/8 x 9/16 x 5 3/8	ALUM ALLOY	67A10	9R-53	62,000	PF-140
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
<p>N3N-3 ← DESIGNED FOR DIMENSIONS ARE IN INCHES, LIMITS ± 1/64 DECIMALS ± .010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.</p>										
ALTERNATIONS										
DRAWN		SIMPSON		7-7-40		SPACER -		PILOTS SEAT		
CHECKED		O'Brien		7-14-40		SAFETY BELT		DETAIL		
SUPERVISOR		K...		7-5-40		SUPERSEDED BY		SUPERSEDES		
STRUCTURE						SCALE		67639-7		
CHIEF DRAFT.		M...		7-8-40		FULL SIZE		REF. DRAWING NO.		
PROJ. ENG.		L...		7-9-40		NAVY YARD		NAVAL AIRCRAFT FACTORY PHILADELPHIA		
ASST. CHIEF. ENG.		G...		7-10-40						
APPROVAL										

8-6399

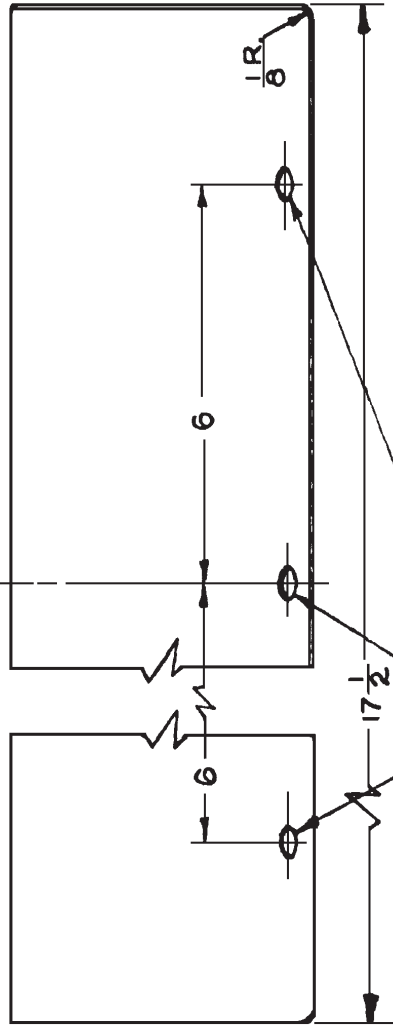
Sub. 7/11/49

NOTES: 1 BREAK ALL CORNERS AND EDGES.

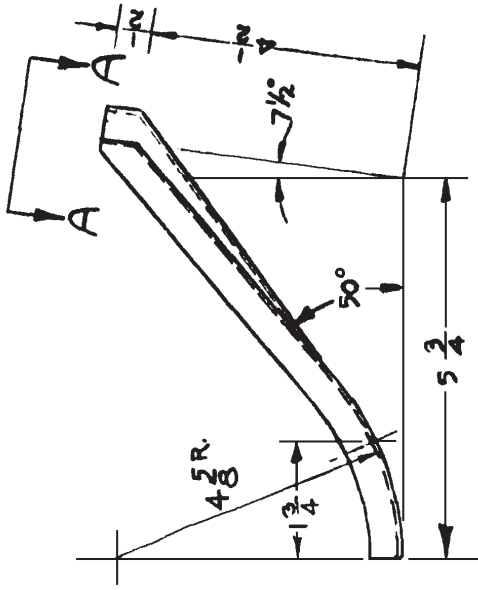
SYMM.



VIEW A-A
SHOWING SHAPE OF TOP ONLY



① THREE 1/2 HOLES FOR DRAINAGE



1	67699-3	67699-8	FORMER, SEAT	640x9x18 1/2	ALUM. ALLOY	47A10	SR-33	62000	RP-140
	NO. REQ.	ASSEM.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U. T. S.	FINISH
			DIMENSIONS ARE IN INCHES. LIMITS: ± 1/64 DECIMALS ± .010, ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.						
			DRAWN	1-23-40					
			TRACED	7-1-40					
			CHECKED	7-5-40					
			SUPERVISOR						
			STRUCTURE						
			CHIEF DRAFT.						
			PROJ. ENG.						
			ASST. CHIEF ENG.						
			APPROVAL						
			ALTERATIONS						
			① 12-5-40 HRS ADDED						
			THREE 1/2 DRAIN HOLES ADDED						
			DESIGNED FOR						
			NSN-3						
			FORMER - PILOTS SEAT						
			DETAIL						
			SUPERSEDED BY						
			SCALE						
			HALF SIZE						
			REF. DRAWING NO.						
			67639-8						
			NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA						

61-68919

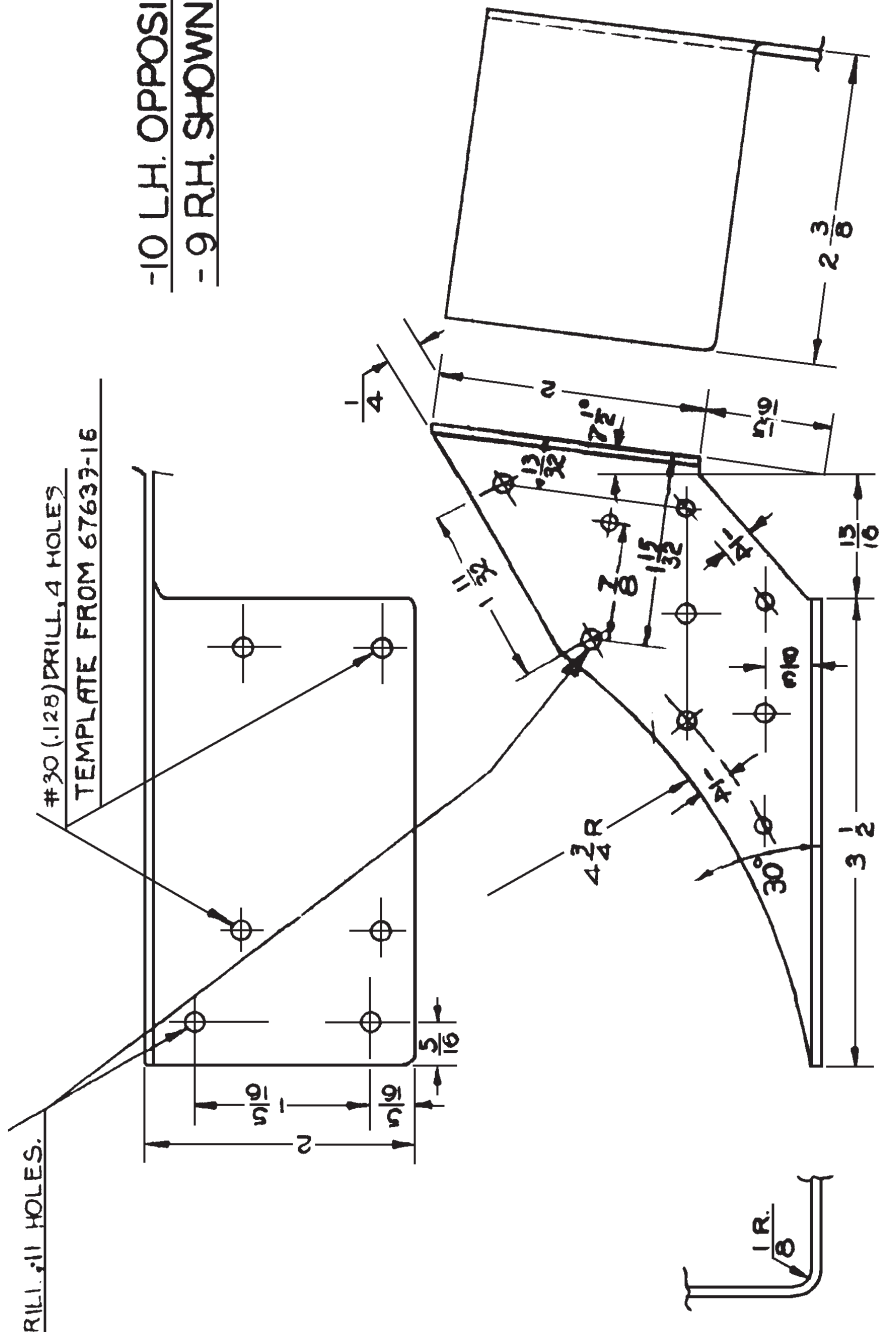
Sub. 7/1/40

NOTES: #1 BREAK ALL CORNERS AND EDGE

#30 (128) JIG DRILL HOLES.

#30 (.128) DRILL, 4 HOLES
TEMPLATE FROM 67637-16

-10 L.H. OPPOSITE
-9 R.H. SHOWN

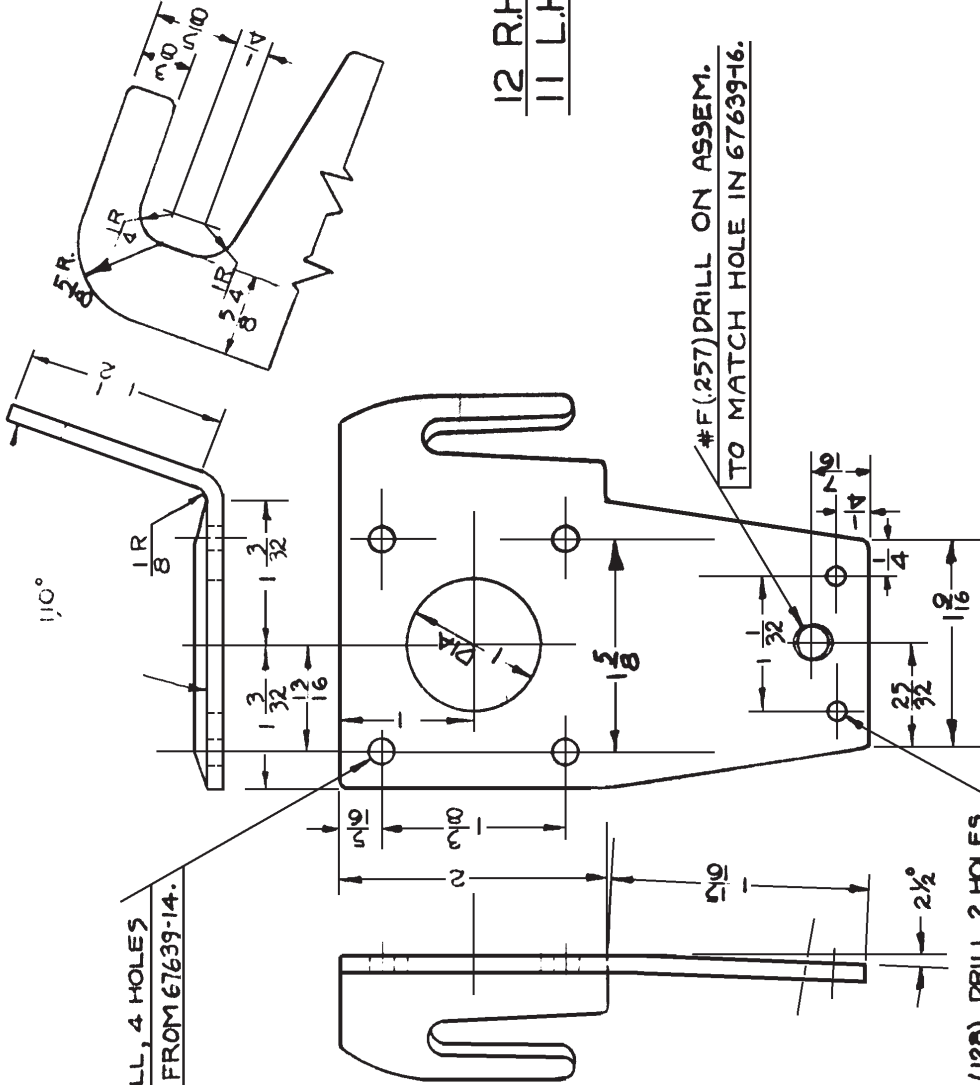


1	67689-3	67699-10	BRACKET LH. OPP.	.064 x 5 x 7	ALUM ALLOY	47A10	9R59	62.000	PP-140
1	67639-3	67639-9	BRACKET RH. SHOWN	.064 x 5 x 7	ALUM ALLOY	47A10	9R59	62.000	PP-140
NO. REQ.		ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.
N3N-3				BRACKET					FINISH
DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± 0.10 ANGLES ± 1/2° UNLESS OTHERWISE NOTED.									
DRAWN		TRACED	SIM	12-1	PILOTS SEAT				
CHECKED				7-5	CORNER				
SUPERVISOR				7-5	DETAIL				
STRUCTURE					SUPERSEDED BY				
CHIEF DRAFT.					SCALE				
PROJ. ENG.					FULL SIZE				
ASST. CHIEF. ENG.					REF. DRAWING NO.				
APPROVAL					67639-10				
					NAVY YARD PHILADELPHIA				
					NAVAL AIRCRAFT FACTORY				

67639-12

Sub. 7/11/40

NOTES: 1. BREAK ALL CORNERS AND EDGES.



#10 (.1975) DRILL, 4 HOLES
TEMPLATE FROM 67639-14.

#90 (.128) DRILL, 2 HOLES
ON ASSEM. TO MATCH
HOLES IN 67639-16

#F(257) DRILL ON ASSEM.
TO MATCH HOLE IN 67639-16.

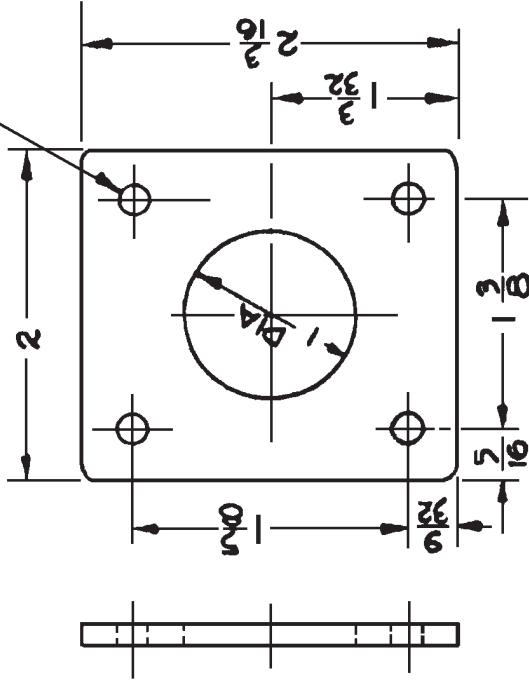
12 R.H. SHOWN
11 L.H. OPPOSITE

NO. REC.	67699-3	67699-12	FITTING, R.H.	1/8 X 4	X 4	ALUM ALLOY	47A10	9R-99	62000	P1440		
ASSEM.	67699-3	67699-11	FITTING, L.H.	1/8 X 4	X 4	ALUM ALLOY	47A10	9R-99	62000	P1440		
N3N-3	--DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/4°. UNLESS OTHERWISE NOTED.									
DRAWN			SIMPSON	1-22-40								
CHECKED			<i>[Signature]</i>	P1440								
SUPERVISOR			<i>[Signature]</i>	7-1-40								
STRUCTURE												
CHIEF DRAFT.			<i>[Signature]</i>	7-8-40								
PROJ. ENG.			<i>[Signature]</i>	7-9-40								
ASST. CHIEF ENG.			<i>[Signature]</i>	7-10-40								
APPROVAL												
ALTERNATIONS												
SUPERSEDED BY			HOOK		PILOTS SEAT							
SCALE			ELASTIC CORD		DETAIL							
FULL SIZE			67639-12		67639-11							
REF. DRAWING NO.			NAVAL AIRCRAFT FACTORY		PHILADELPHIA							

67639-13

Rev. 2/11/40

#10(1935) DRILL 4 HOLES
 TEMPLATE FROM 67639-14



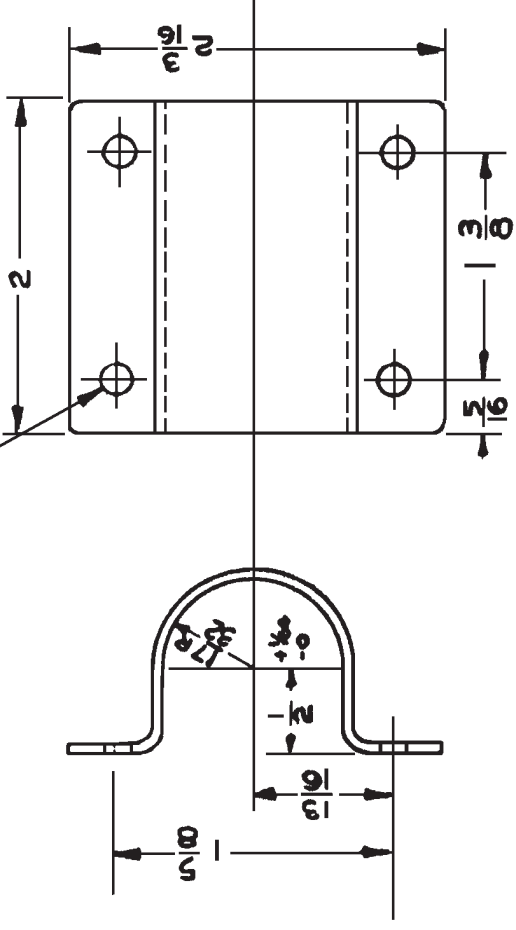
NOTES: 1. BREAK ALL CORNERS
 AND EDGES.

2	67699-3	67639-13	PLATE	1/8 x 2 x 2 3/16	ALUM ALLOY	A7A10	98-53	62000	140		
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.	
← DESIGNED FOR			DIMENSIONS ARE IN INCHES. LETTERS 1/64 DECIMALS ± .010, ANGLES ± 1/4°. UNLESS OTHERWISE NOTED.								
N3N-3			PILOTS SEAT REINFORCING								
ALTERNATIONS			DETAIL								
			SUPERSEDED BY								
			SCALE								
			FULL SIZE								
			REF. DRAWING NO.								
			67639-13								
			SUPERSEDED BY								
			NAVAL AIRCRAFT FACTORY PHILADELPHIA								

67639-14

NOTES: 1. BREAK ALL CORNERS AND EDGES.

#10 (1935) DRILL, 4 HOLES



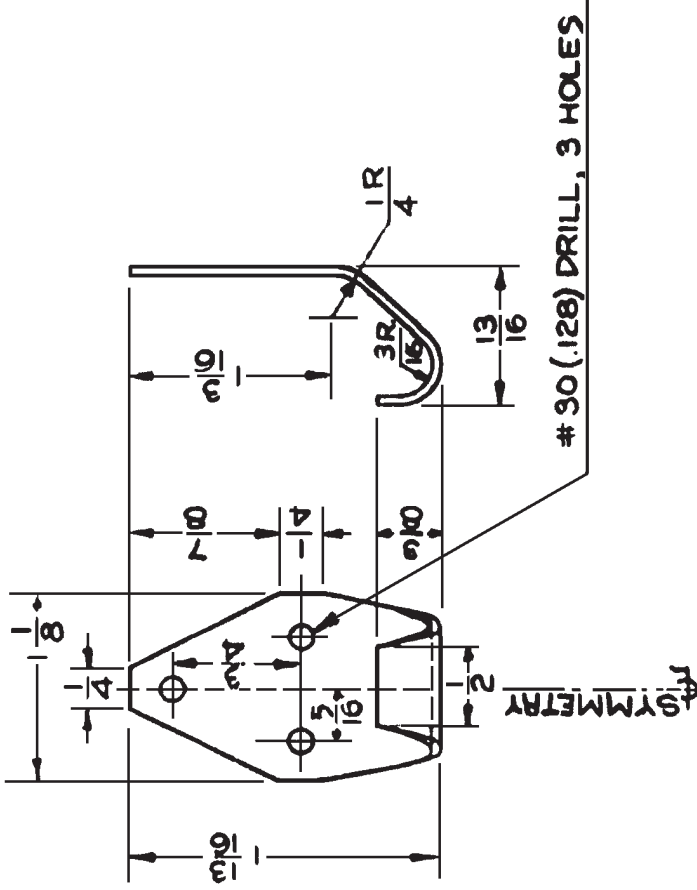
4	67639	4	67639-14	CLAMP	.064 x 2 x 3/16	ALUM ALLOY	67A10 9R-53	62,000	FF-140	
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK		MATERIAL	SPEC.	HT. T.	FINISH	EST. WT. AC. BT.
DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010 ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.										
DRAWN BY: SIMPSON										
CHECKED BY: <i>Chas. J. Kelly</i>										
SUPERVISOR BY: <i>Kelly</i>										
STRUCTURE										
CHIEF DEPT. BY: <i>Thompson</i>										
PROJ. ENG. BY: <i>J. Kelly</i>										
ASST. CHIEF ENG. BY: <i>Connelly</i>										
APPROVAL										
ALTERNATIONS										
DESIGNED FOR										
SLIDE SUPPORT TUBE										
PILOTS SEAT										
DETAIL										
SUPERSEDED BY										
SCALE										
FULL SIZE										
REF. DRAWING NO.										
67639-14										
SUPERSEDED BY										
NAVAL AIRCRAFT FACTORY PHILADELPHIA										

Ord. 7/11/40

67639-15

Rev. 7/11/40

NOTES: 1. BREAK ALL CORNERS
AND EDGES.

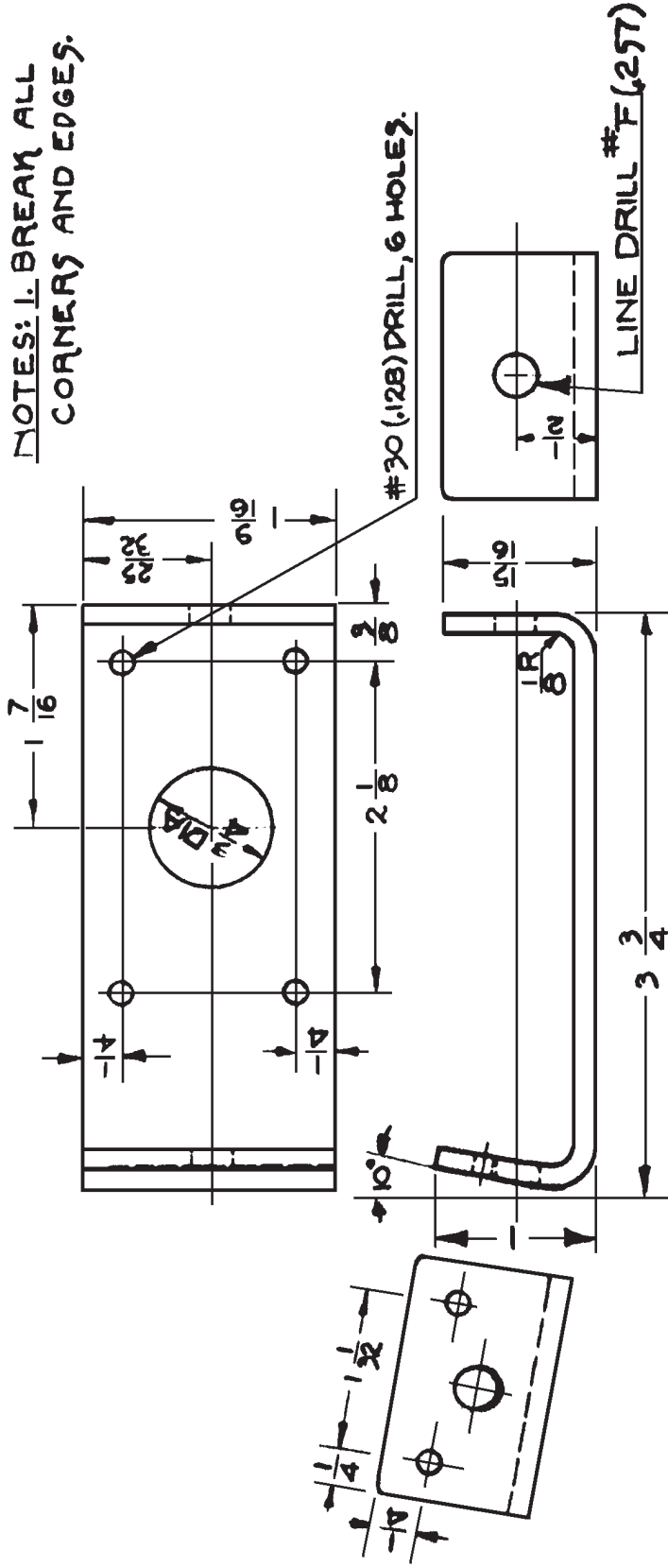


2	2	67639-3	67639-15	HOOK - SAFETY BELT	.051x1/8 x 2 1/8	ALUM ALLOY	47A10	9R-59	62,000	PF-1-40	
NO. REQ.		ASSEMB.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	MT. T.	QTY.	FINISH	EST. WT. ACT. WT.
N3N-3				DESIGNED FOR		DIMENSIONS ARE IN INCHES, LIMITS ± 1/16 DECIMALS ± 1/16 ANGLES ± 1/2° UNLESS OTHERWISE NOTED.					
				SECTION	12-11-35	HOOK SAFETY BELT					
				CHECKED	<i>Chaplin</i>	PILOTS SEAT					
				SUPERVISOR	<i>Caplan</i>	SAFETY BELT					
				STRUCTURE		SUPERSEDED BY					
				CHIEF ENGR.	<i>W.D.P.</i>	SCALE					
				PROJ. ENG.	<i>Liech</i>	FULL SIZE					
				HEFT. CERT. ENG.	<i>Barnaby</i>	REF. DRAWING NO.					
				APPROVAL		67639-15					
						SUPERSEDED BY					
						NAVAL AIRCRAFT FACTORY PHILADELPHIA					

67639-16

Rev. 7/11/40

NOTES: 1. BREAK ALL
CORNERS AND EDGES.

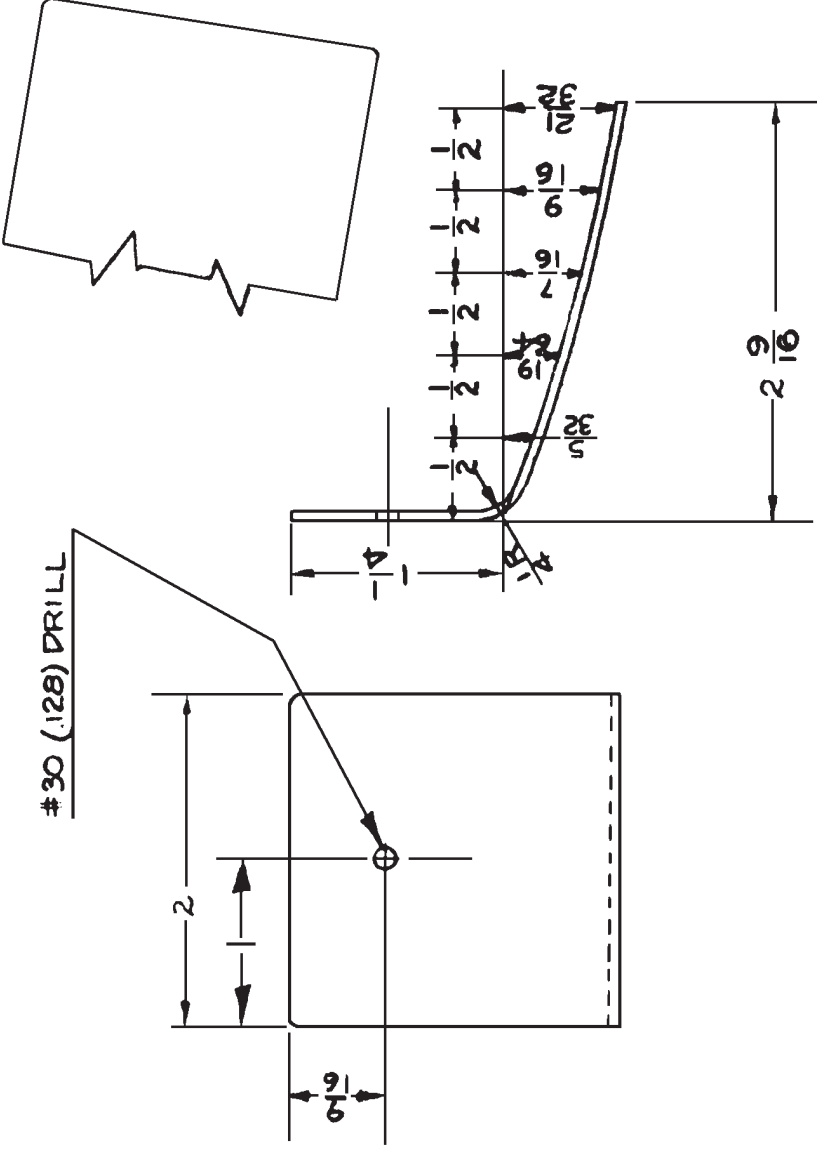


2	67639-3	67639-16	GUIDE	NAME	STOCK	ALUM. ALLOY	47A10	SR-33	62000	PF-140	
NO. REQ.	ASSEM.	PART NO.	← DESIGNED FOR	DIMENSIONS ARE IN INCHES, PARTS 1/16-4 DECIMALS ±.010, ANGLES 1/4° UNLESS OTHERWISE NOTED.							
N3N-3			DESIGNER	SYMPSON							
			CHECKED	Oldham							
			SUPERVISOR	R. J. ...							
			STRUCTURE								
			CHIEF ENGR.								
			PROJ. ENR.								
			SECT. ENR.								
			APPROVAL								
ALTERNATIONS											
GUIDE-PILOTS SEAT ADJUSTING LEVER DETAIL											
SUPERSEDED BY											
SCALE											
FULL SIZE											
REF. DRAWING NO. 67639-16											
SUPERSEDES											
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA											

67639-18

h.d. 7/11/40

NOTE: BREAK ALL CORNERS AND EDGES.

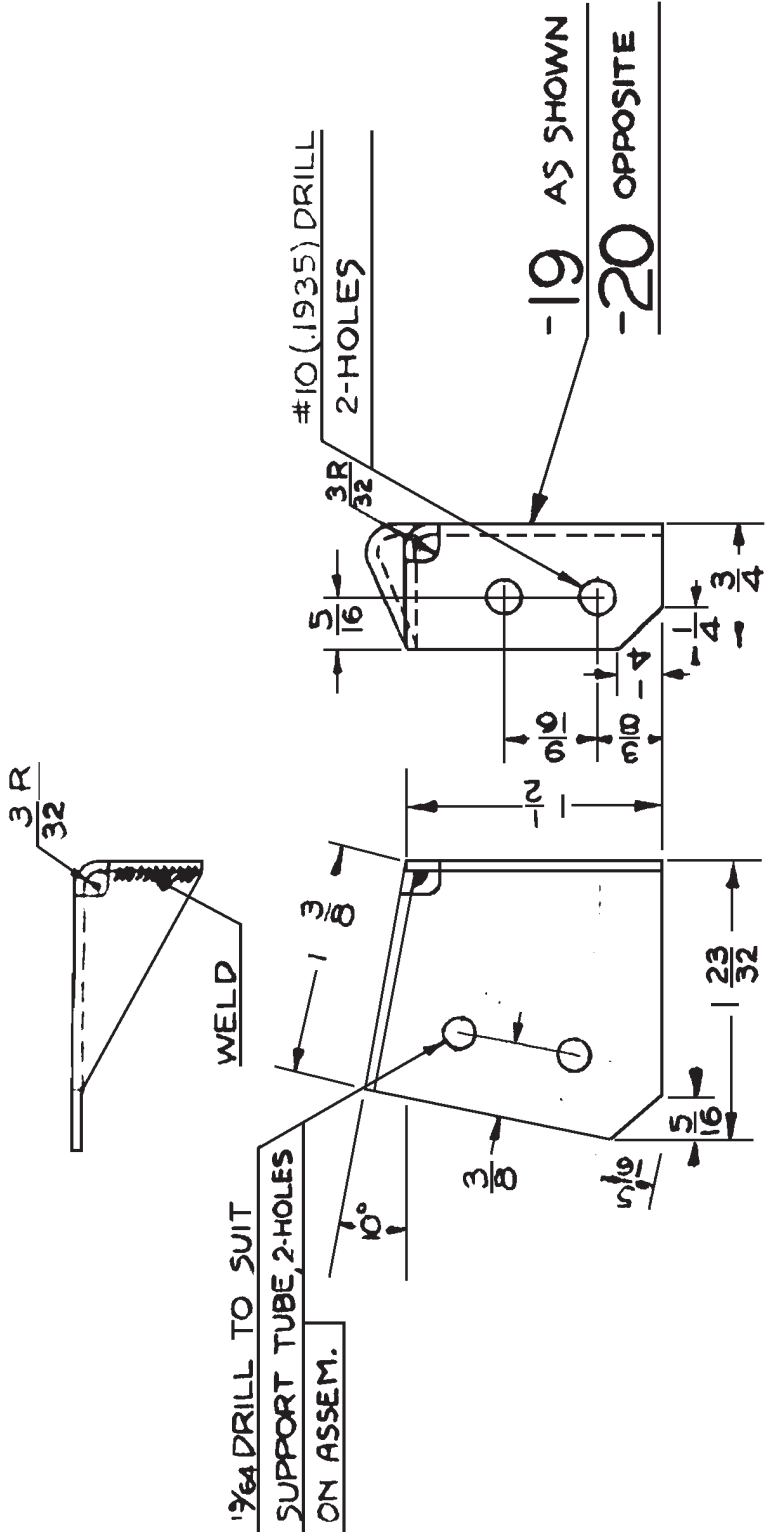


2	67639	ASSEMB.	67639-18	PLATE-REINF.	.051 x 2 x 4/8	ALUM. ALLOY MATERIAL	47A10	SR-33	62,000	PF-140	
DIMENSIONS ARE IN INCHES, LIMITS $\pm 1/64$ DECIMALS $\pm .010$, ANGLES $\pm 1/2^\circ$, UNLESS OTHERWISE NOTED.											
NO. REQ.		DESIGNED FOR		NAME		STOCK		PILOTS SEAT			
N3N-3				SIMPSON		1-23-40		E PLATE			
				CROFTON		7-1-40		REINFORCING			
				SUPERVISOR		KAPLAN		DETAIL			
				STRUCTURE				SUPERSEDED BY			
				CHIEF DRAFT.		7-8-40		SCALE			
				PROJ. ENG.		7-9-40		FULL SIZE			
				ASST. CHIEF. ENG.		7-10-40		REF. DRAWING NO.			
				APPROVAL		BARNESBY		67639-18			
								NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA			

67639-19

62 7/11/40

NOTES: #1: BREAK ALL CORNERS AND EDGES.



1/64 DRILL TO SUIT
SUPPORT TUBE, 2-HOLES
ON ASSEM.

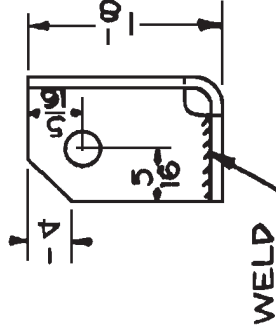
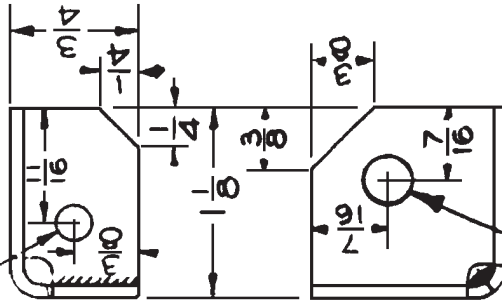
2	67741	67639-20	CLIP, R.H.	.065 x 2 1/4 x 2 1/2	STEEL	47514 PH5-10	123000	PF7-42
2	67739	67639-19	CLIP, L.H.	.065 x 2 1/4 x 2 1/2	STEEL	47514 PH5-10	123000	PF7-42
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH
							1/2 IN.	EST. WT. ACT. WT.
← DESIGNED FOR				DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.				
N3N-3				CLIP - PILOT'S SEAT 6				
DRAWN				SIMPSON 11-6-39				
CHECKED				CLAYTON 7-1-40				
SUPERVISOR				KAYLER 7-5-40				
STRUCTURE								
CHIEF DRAFT.				MURPHY 7-8-40				
PROJ. ENG.				BRADY 7-9-40				
LEST. CH'F. ENR.				BARNABY 7-11-40				
APPROVAL								
SUPERSEDED BY				UPPER				
SCALE				FULL SIZE				
REF. DRAWINGS NO.				67639-19				
NAVY YARD				NAVAL AIRCRAFT FACTORY PHILADELPHIA				

67639-21

NOTES: 1. BREAK ALL CORNERS AND EDGES.

$\frac{1}{64}$ DRILL, 2 HOLES

ALL BENDS $\frac{3 R}{32}$

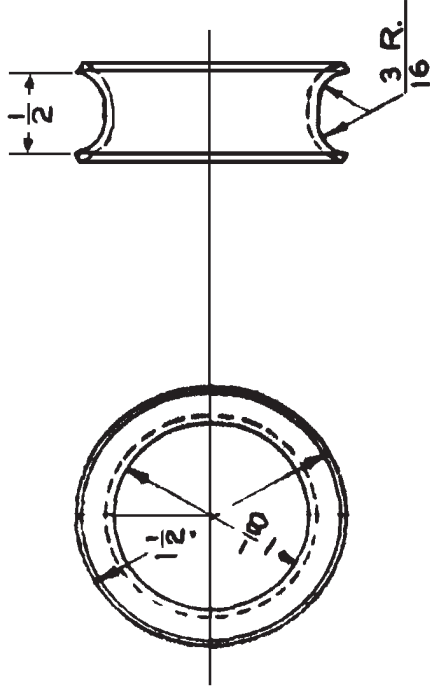


$\frac{17}{64}$ DRILL

1	67741	67639-21	CLIP, L.H.	.065x1 7/8 x 1 1/8	STEEL	47514	PHS-10	123000	PFF-42		
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
<p>← DESIGNED FOR DIMENSIONS ARE IN INCHES, LIMITS $\pm \frac{1}{64}$ DECIMALS $\pm .010$, ANGLES $\pm \frac{1}{2}^\circ$, UNLESS OTHERWISE NOTED.</p>											
<p>N3N-3</p>											
<p>ALTERNATIONS</p>											
			DRAWN	SIMPSON	11-7-99	CLIP-PILOT'S SEAT					
			CHECKED	Clafflin	7-1-40	REAR, LOWER L.H. DETAIL					
			SUPERVISOR	Kaplan	7-5-40	SUPERSEDED BY					
			STRUCTURE			SCALE					
			CHIEF DRAFT.	nday	7-8-40	FULL SIZE					
			PROJ. ENG.	Shalin	7-9-40	REF. DRAWING					
			ASST. CRT. ENG.	Bemaly	7-10-40	67639-21					
			APPROVAL			NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA					

67639-22

Send 2/11/40



BREAK SHARP EDGES

3	67639-41	67639-22	SAIL THIMBLE	.049 x 1/4 OD x 7/8	STEEL	44T10	—	—	PF-04
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S. #/SQ. IN.	FINISH EST. WT. ACT. WT
← DESIGNED FOR			DIMENSIONS ARE IN INCHES, LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2°. UNLESS OTHERWISE NOTED.						
N3N-3			ACTION						
			DRAWN	1-24-40	THIMBLE, SAIL				
			CHECKED	7-1-40	ELASTIC CORD				
			SUPERVISOR	7-5-46	DETAIL				
			STRUCTURE		SUPERSEDED BY				
			CREW DRAFT	7-8-46	SCALE				
			PROJ. ENG.	7-9-40	FULL SIZE				
			ASST. CFT. ENG.	7-10-40	REF. DRAWING NO.				
			APPROVAL		67639-22				
					NAVAL AIRCRAFT FACTORY PHILADELPHIA				

NOTE:

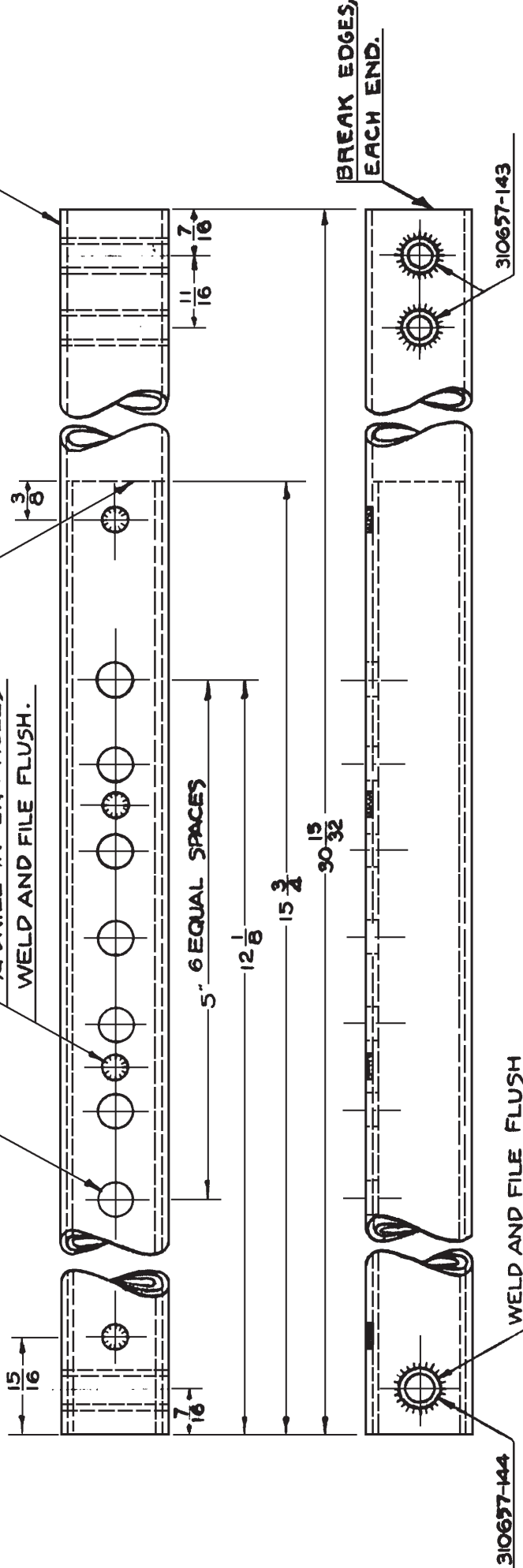
1. TUBE TO BE CHROMIUM PLATED IN ACCORDANCE WITH SPEC. P44 AND FINISH OF INTERIOR OF TUBE TO BE PF-186.

3/16 DRILL, 7-HOLES ONE SIDE ONLY.

1/4 DRILL IN -27, 4-HOLES WELD AND FILE FLUSH.

-27

-29



2	67639-23	310657-143	SPACER																	
1	67639-23	67639-23	TUBE REIN.	.049 x 7/8 CR. 15 1/2	STEEL	44T18														
1	67639-23	67639-23	TUBE	.058 x 1.00 x 30 3/32	STEEL	44T18														
1	67639-23	310657-144	SPACER																	
2	67639-23	310657-144	TUBE - WELD ASSEMBLY																	
N3N-3		ASSEM.	PART NO.	DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ±		STOCK	MATERIAL SPEC.		DECIMALS ± .010. ANGLES ± 1/4°. UNLESS OTHERWISE NOTED.		HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.			
				ALTERNATIONS		12-31-46														

TUBE - PILOT FRONT WELD

SUPERSEDED BY 67639-23

SCALE REF. DRAWING

FULL SIZE

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

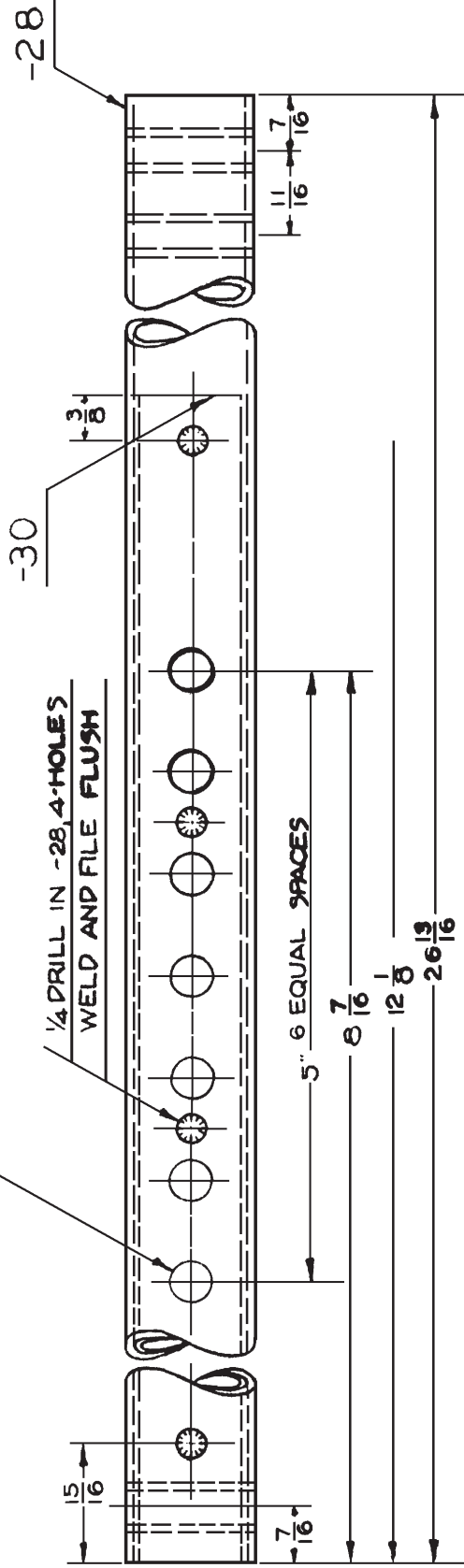
67639-24

Rev. 2/11/58

NOTE:

1. TUBE TO BE CHROMIUM PLATED IN ACCORDANCE WITH SPEC. P-44 AND FINISH OF INTERIOR OF TUBE TO BE PF-1-86.

3/16 DRILL, 7-HOLES
ONE SIDE ONLY



BREAK EDGE,
EACH END.

310657-144

WELD AND FILE FLUSH

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
2	67639-24	310657-143	SPACER							
1	67639-24	67639-30	TUBE REINF.		.049 x 7/8 OD x 1/2	STEEL	4-118			
1	67639-24	67639-28	TUBE		.058 x 1.00 x 2 1/2	STEEL	4-118			
1	67639-24	310657-144	SPACER							
2	67639-24	67639-24	TUBE-WELD ASSEMBLY					AS40		

DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ± .010, ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.	
1	11-1	11-1	11-1
CHECKED	7-1	7-1	7-1
SUPERVISOR	7-1	7-1	7-1
STRUCTURE	7-1	7-1	7-1
CHIEF DRAFT	7-1	7-1	7-1
PROJ. ENG.	7-1	7-1	7-1
ASST. CHIEF ENG.	7-1	7-1	7-1
APPROVAL	7-1	7-1	7-1

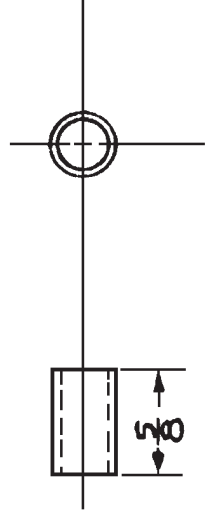
ALTERATIONS		SUPERSEDED BY	
1	12-2-41	67639-24	67639-24

TUBE-PILOT'S SEAT		WELD ASSEMBLY	
REAR	REAR	REAR	REAR
SCALE	SCALE	SCALE	SCALE
FULL SIZE	FULL SIZE	FULL SIZE	FULL SIZE
REF. DRAWING	REF. DRAWING	REF. DRAWING	REF. DRAWING
67639-24	67639-24	67639-24	67639-24

NAVAL AIRCRAFT FACTORY PHILADELPHIA

67639-25

Slide 7/11/40

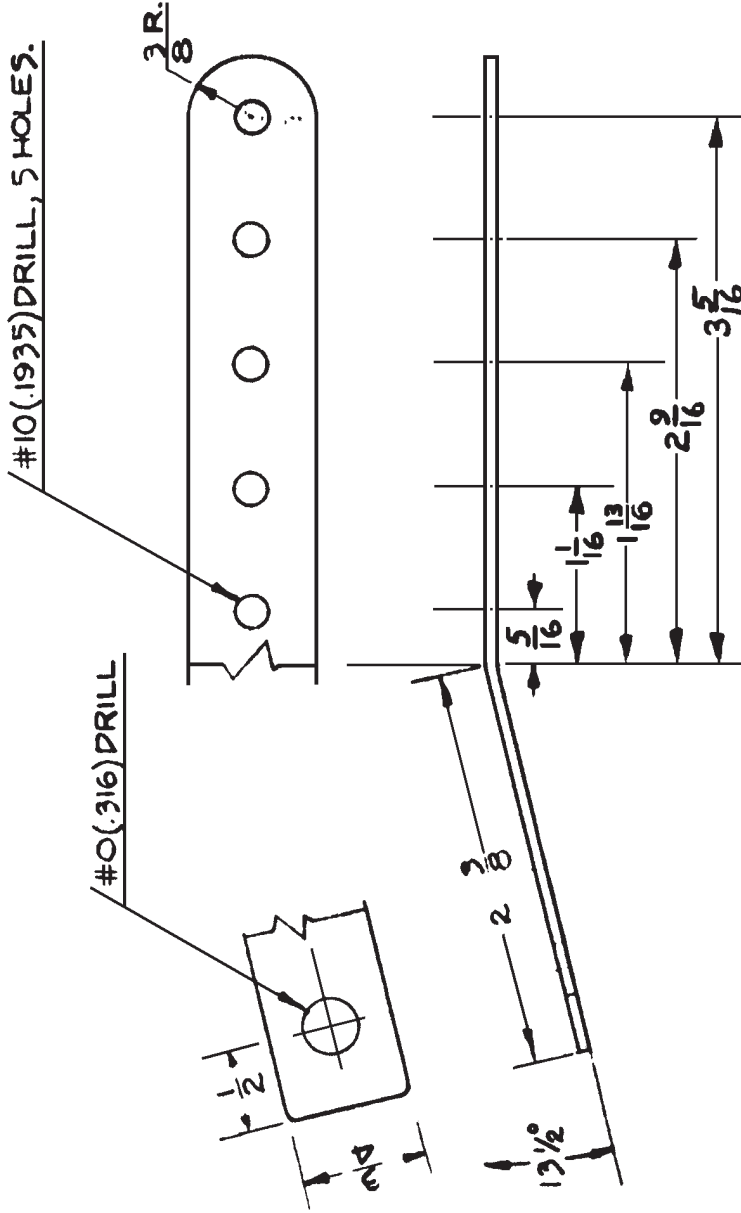


1	67639-25	67639-25	TUBE SPACER	.065 ± 1/600 x 3/8	ALUM ALLOY	4428	9R53	62,000	PF1-87
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	WT. 1/29 IN.	FINISH
DIMENSIONS ARE IN INCHES, LIMITS ± 1/64 DECIMALS ± .010, ANGLES ± 1/2° UNLESS OTHERWISE NOTED.									
DESIGNED FOR			SPACER PILOTS SEAT						
ALTERNATIONS			ADJUSTMENT STRAP-TUBE - DETAIL						
DRAWN			SUPERSEDED BY						
CHECKED			SCALE						
SUPERVISOR			FULL SIZE						
STRUCTURE			REF. DRAWING NO.						
CHIEF DRAFT.			67639-25						
PROJ. ENG.			NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA						
ASST. CFT. ENG.									
APPROVAL									

67639-39

Lead. 7/11/40

NOTES: 1. BREAK ALL
CORNERS AND EDGES.

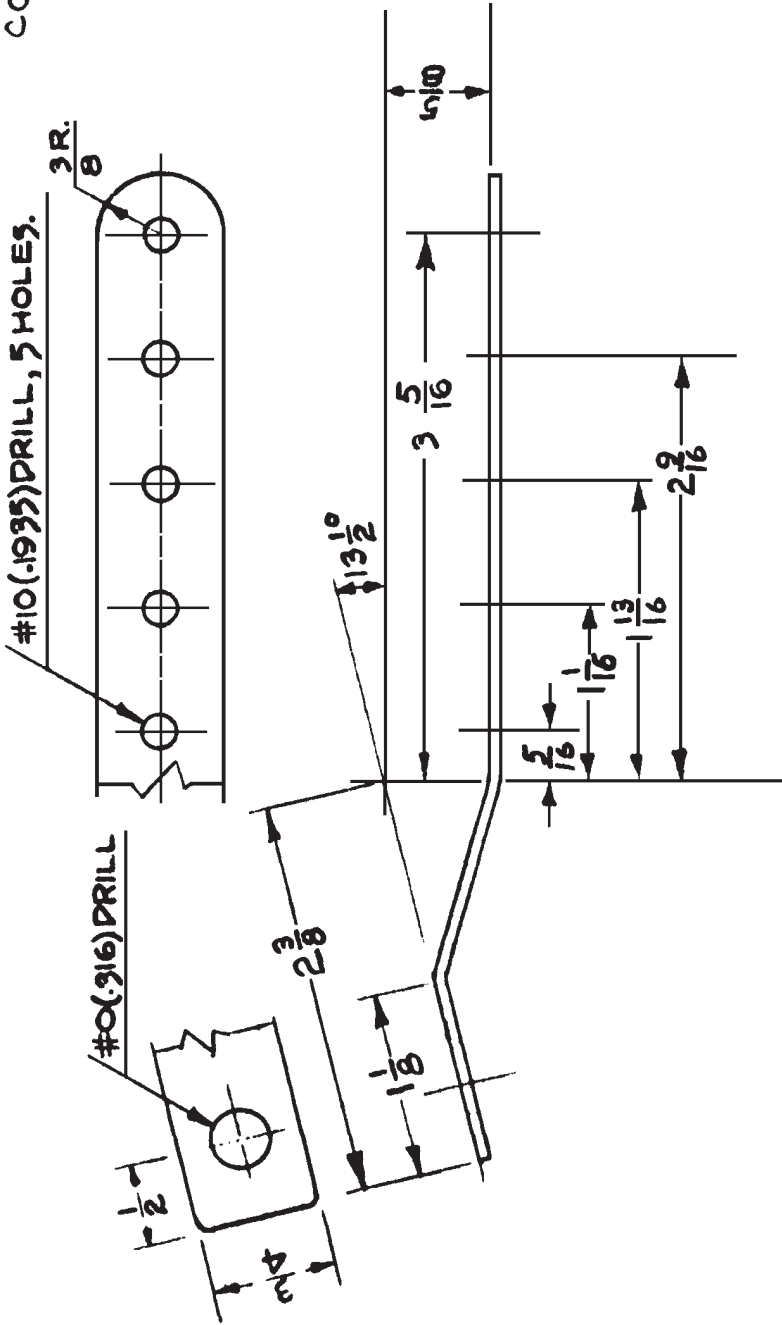


NO. REQ.	1	67639	-1	67639-39	STRAP-ADJ.	.064x $\frac{3}{4}$ x6 $\frac{1}{8}$	STOCK	1B-20F	12-20F	7-140	7-54	12-20F	7-140	7-54	12-20F	7-140	7-54	12-20F	7-140	7-54
ASSEM.																				
NAME	DIMENSIONS ARE IN INCHES. LIMITS \pm $\frac{1}{64}$ DECIMALS \pm $\frac{1}{16}$ ANGLES \pm $\frac{1}{2}$ ° UNLESS OTHERWISE NOTED.																			
DESIGNED FOR	STRAP																			
ALTERNATIONS	REAR-ADJUSTMENT																			
PILOTS SEAT	DETAIL																			
NO. REQ.	62000																			
ASSEM.	PF1-07																			
FINISH	EST. WT. ACT. WT.																			
EST. WT.	41.83 IN.																			
ACT. WT.																				
SUPERSEDED BY										67639-39										
SCALE										REF. DRAWING NO.										
FULL SIZE										NAVAL AIRCRAFT FACTORY PHILADELPHIA										

67639-40

Ord. 7/11/40

**NOTES: BREAK ALL
CORNERS AND EDGES.**



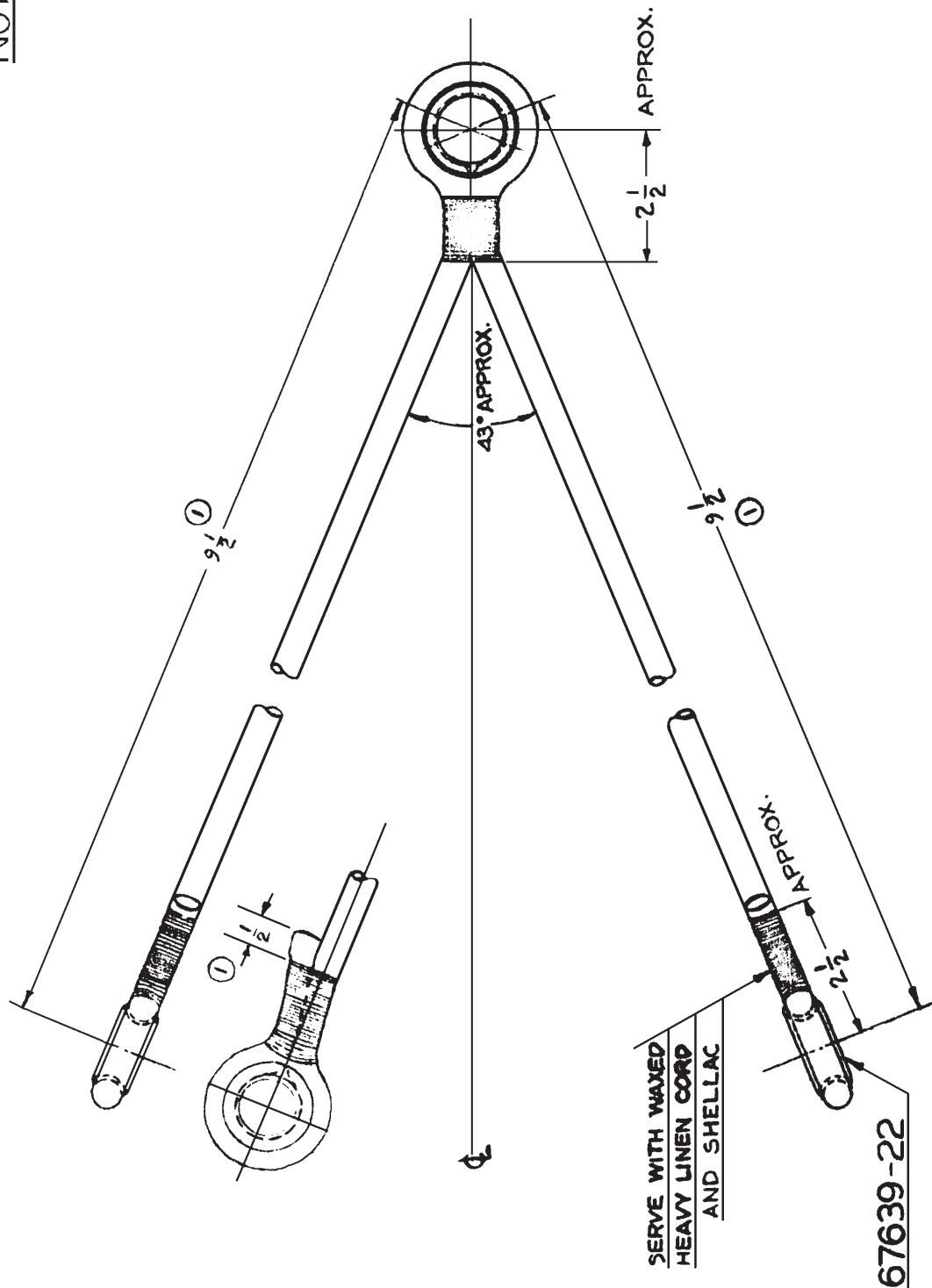
NO. REQ.	1	67639	-2	67639-40	STRAP-ADJ.		.064 x $\frac{3}{4}$ x $6\frac{1}{2}$	ALUM ALLOY	47A10	SR-53	62,000	FF-67	
ASSEM.								MATERIAL SPEC.	HT. T.	U. T. S.	FINISH	EST. WT.	ACT. WT.
DESIGNED FOR						DIMENSIONS ARE IN INCHES. LIMITS \pm							
ALTERNATIONS						DECIMALS $\pm .010$. ANGLES $\pm \frac{1}{2}^\circ$, UNLESS OTHERWISE NOTED.							
						DRAWN TRACED							
						SIMPSON		7-1-40		STRAP		PILOTS SEAT	
						CHECKED		7-5-40		FRONT-ADJUSTMENT		DETAIL	
						SUPERVISOR		7-8-40		SCALE		SUPERSEDES	
						STRUCTURE		2-0-40		FULL SIZE		REF. DRAWING NO.	
						CHIEF DRAFT.		7-9-40		67639-40		NAVAL AIRCRAFT FACTORY PHILADELPHIA	
						PROJ. ENG.		7-11-40					
						ASST. CHIEF ENG.		7-11-40					
						APPROVAL							

67639-41

Rev. 7/11/40

NOTES:

#1 EACH SERVING TO BE MADE UNDER 150# TENSION.



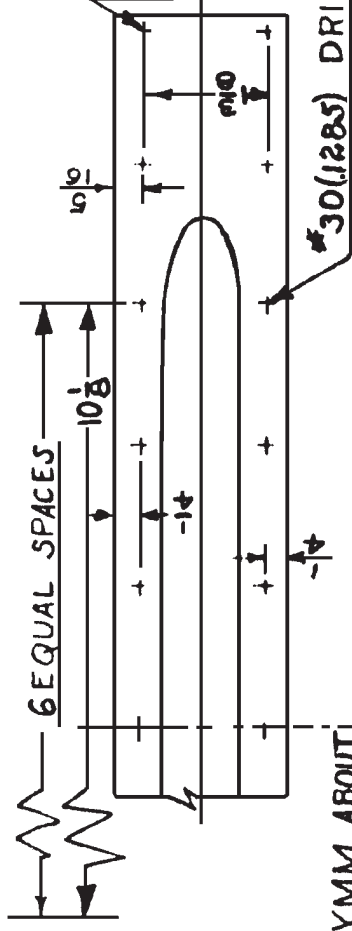
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	LINEN	TYPE OF CORD	HT. T.	U.T.S. / 50. IN.	FINISH	EST. WT. ACT. WT.
1	67639-41	67639-42	SERVING CORD	9-PLY	CORD	9-PLY	—	—	—	59#
3	67639-41	67639-22	CORD-ELASTIC	1/2 DIA. #40	—	CORD-ELASTIC	—	—	—	—
1	67639-22	67639-41	SAIL THIMBLE	—	—	—	—	—	—	—
1	67639-22	67639-41	CORD-ELASTIC-SUB ASSEMBLY	—	—	—	—	—	—	—

DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ± 1/8 DECIMALS ± .010. ANGLES ± 1/4° UNLESS OTHERWISE NOTED.	
N3N-3	ASSEMBLY	PILOTS SEAT	ASSEMBLY
DRAWN BY: <i>[Signature]</i>		SUPERSEDED BY: CORD ELASTIC	
CHECKED: <i>[Signature]</i>	SUPERVISOR: <i>[Signature]</i>	SCALE: HALF-SIZE	REF. DRAWING NO. 67639-41
STRUCTURE: <i>[Signature]</i>	CHIEF DRAFT: <i>[Signature]</i>	NAVAL AIRCRAFT FACTORY PHILADELPHIA	
PROJ. ENG. <i>[Signature]</i>	TEST. CHT. ENG. <i>[Signature]</i>	SUPERSEDED BY: CORD ELASTIC	
APPROVAL: <i>[Signature]</i>	APPROVAL: <i>[Signature]</i>	NAVAL AIRCRAFT FACTORY PHILADELPHIA	

67639-43

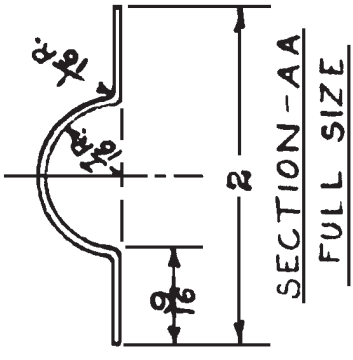
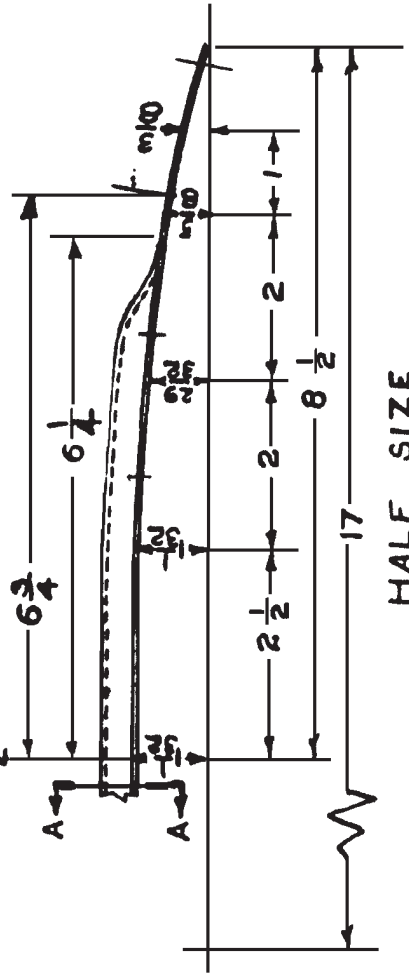
A 2 7/11/40

#10(.1935) DRILL
8 HOLES, TEMP.
FROM -14 ON
ASSEM.



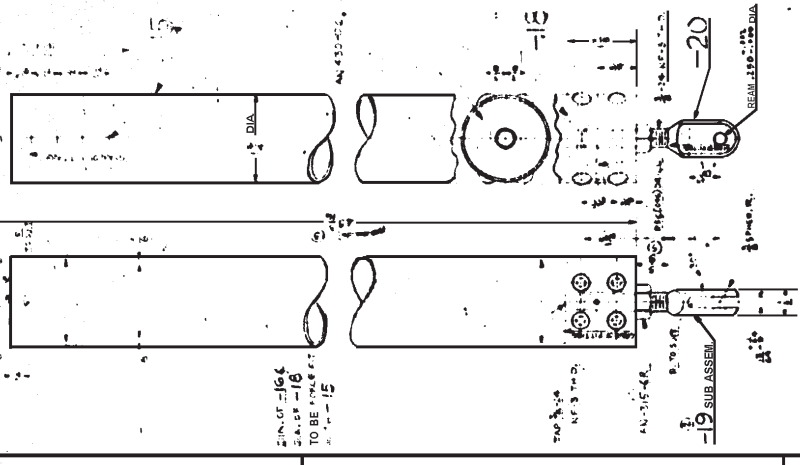
- NOTES:
- #1 JIG DRILL ALL HOLES.
 - BREAK ALL EDGES AND CORNERS.

#30(.1285) DRILL, 14 HOLES.

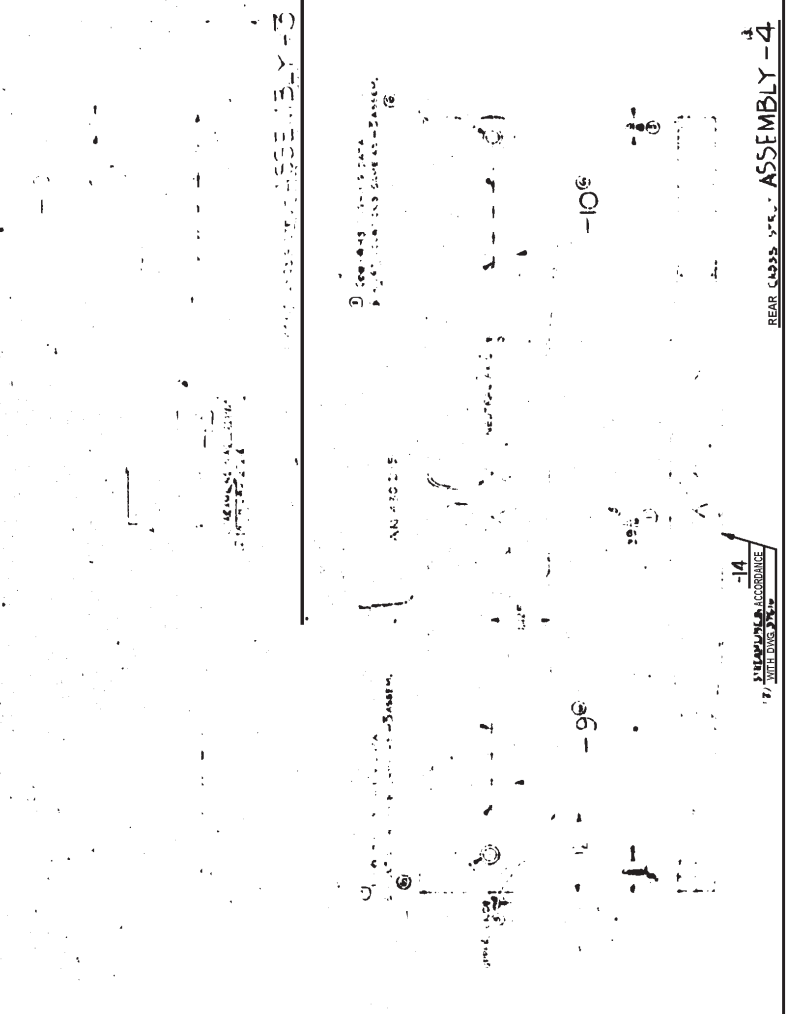


HALF SIZE

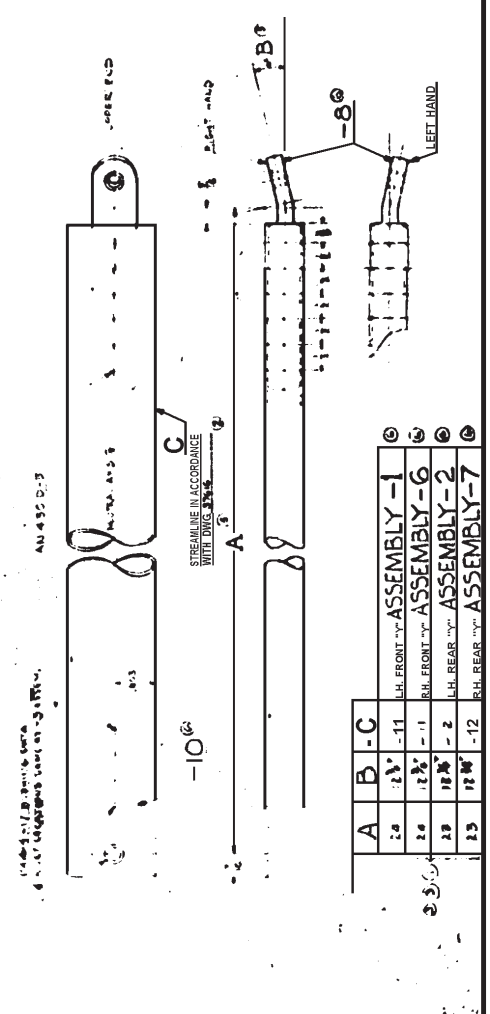
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	MT. T.	U.S. FINISH	PF-140
1	67639-43	67639-43	CHANNEL REINF.	040 x 2 1/4 x 18	ALUM. ALLOY	47110 SR-53	62000	PF-140	
DIMENSIONS ARE IN INCHES, LIMITS ± 1/64 DECIMALS ± .010, ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.									
N3N-3		DESIGNED FOR		STIFFENER PILOT'S SEAT BACK					
		DRAWN TRACED		PLETT 7-1-40					
		CHECKED		<i>Chaplin</i> 7-1-40					
		SUPERVISOR		<i>Vick</i> 7-5-40					
		STRUCTURE							
		CHIEF DRAFT.		<i>Whit</i> 7-8-40					
		PROJ. ENG.		<i>Stahl</i> 7-9-40					
		ASST. ENGR.		<i>Bernaby</i> 7-10-40					
		APPROVAL							
				SUPERSEDED BY					
				SCALE		AS NOTED			
				REF. DRAWING NO.		67639-43			
				NAVY YARD		NAVAL AIRCRAFT FACTORY PHILADELPHIA			



DIAGONAL STRUT ASSEMBLY -5



REAR CLASS STRUT ASSEMBLY -4



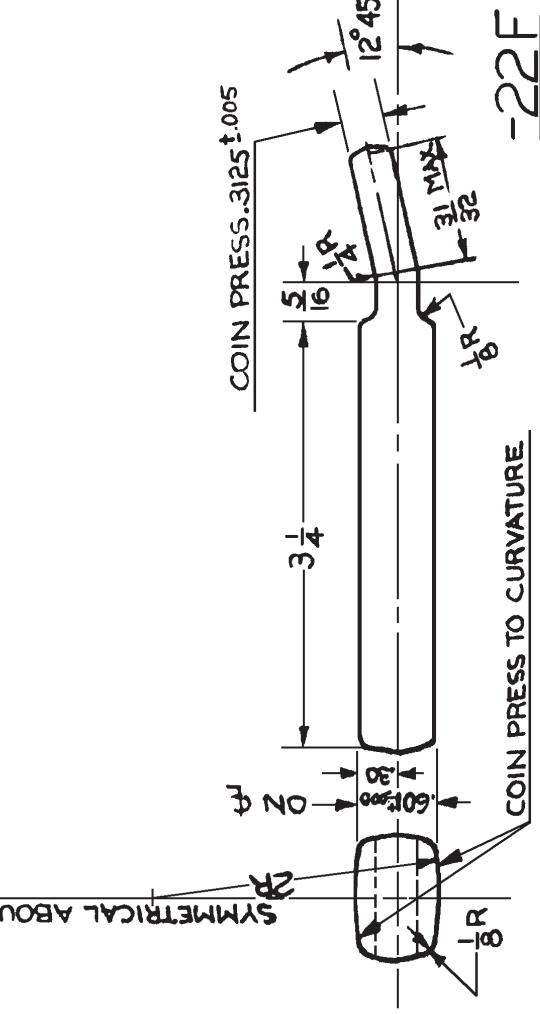
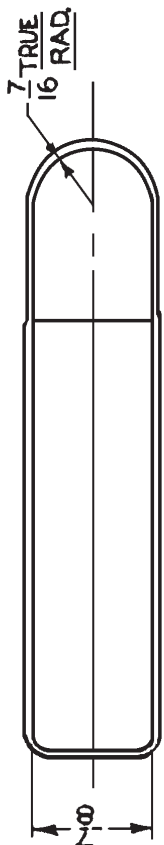
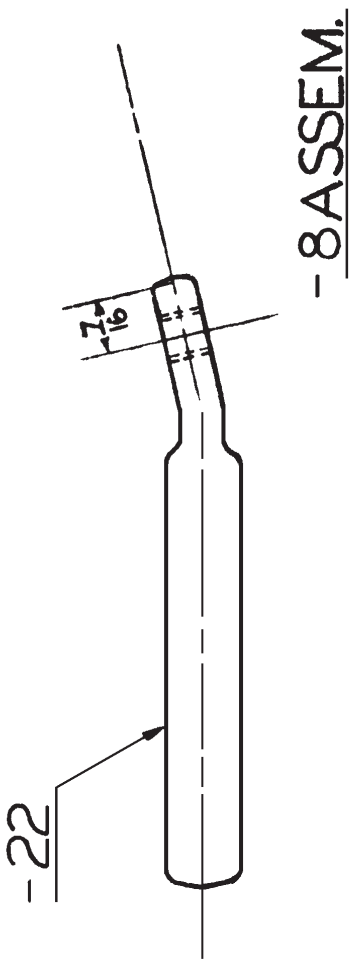
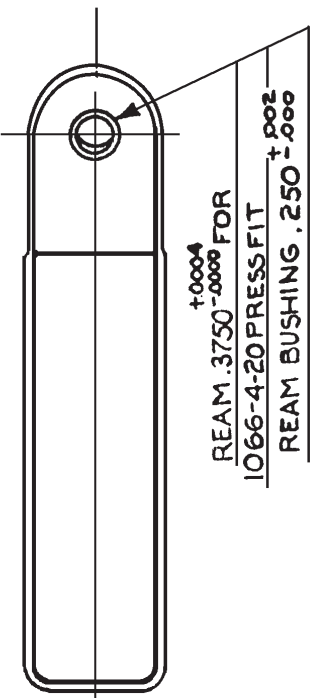
STREAMLINE IN ACCORDANCE WITH DWG. 3000

A	B	C	
2.0	2.1	11	L.H. FRONT - ASSEMBLY -1
2.0	2.2	11	R.H. FRONT - ASSEMBLY -6
2.0	12	2	L.H. REAR - ASSEMBLY -2
2.0	12	2	R.H. REAR - ASSEMBLY -7

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REV. 10/11/53

DRAFT ANGLES 7°.
 TOLERANCES $+\frac{3}{64}, -\frac{1}{64} \pm 1^\circ$.
 BREAK SHARP CORNERS
 WITH $\frac{1}{32}$ RADIUS.
 GRAIN OF MATERIAL TO
 FOLLOW CONTOUR OF LUG
 ALL FILLET RADII $\frac{3}{16}$.



- 8 ASSEM.

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U. I. S.	FINISH	EST. WT. ACT. WT.
1	67645-8	1066-4-20	BUSHING	STANDARD						
1	67645-8	67645-22	FITTING	67645-22F						
		67645-22F	FITTING	FORGING	AL ALLOY	1647	SR-53	55,000		
		37645-8	FITTING ASSEM						PFM-1	

NO. REQ. ASSEM. PART NO. NAME STOCK DIMENSIONS ARE IN INCHES. LIMITS $\pm \frac{1}{64}$ DECIMALS $\pm .010$, ANGLES $\pm \frac{1}{2}^\circ$, UNLESS OTHERWISE NOTED.

DRAWN TRACED V. MECCA 9-25-4

CHECKED 10-2-4

SUPERVISOR 10-2-4

STRUCTURE 10-2-4

CHIEF DRAFT 10-2-4

PROJ. ENG. 10-3-4

ASST. ENGR. 10-4-4

APPROVAL Barnaby

ALTERATIONS

DESIGNED FOR

STANDARD 67645-22F FORGING AL ALLOY 1647 SR-53 55,000 PFM-1

FITTING-WING TIP FLOAT V STRUT-UPPER END ASSEM.

SUPERSEDED BY

SCALE FULL SIZE

REF. DRAWING NO. 67645-8

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

① BUFF

②

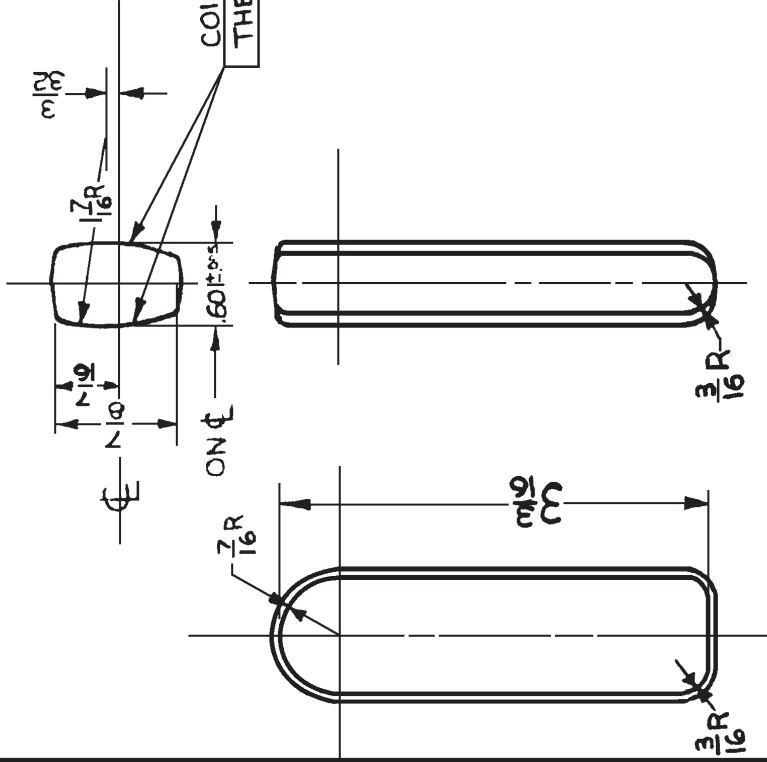
③

④ FROM THIS DRAWING IS NOT TO BE USED FOR FABRICATION

67645-10

67645-9

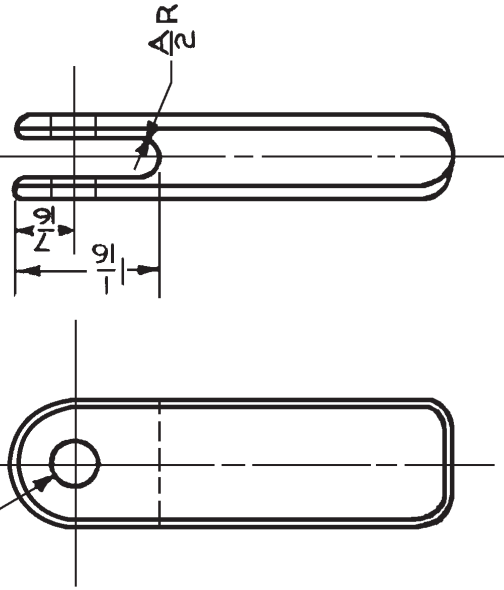
DRAFT ANGLES 7°.
TOLERANCES ± 0.0005.
BREAK SHARP CORNERS
WITH 1/32 IN. RADIUS.
GRAIN OF MATERIAL TO
FOLLOW CONTOUR OF LUG
ALL FILLET RADIUS 3/16



-9F

No	A	1/64
-9	21	64
-10	13	64

DRILL 23/64 DIA.



-10
-9

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	U.T.S.	FINISH EST. WT.	ACT. WT.
1	1	67645-9F	FITTING	FORGING	AL ALLOY 7075-T6	SR-53	55000		
1	1	67645-10	FITTING	67645-9F					
1	1	67645-9	FITTING	67645-9F					

---DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 0.010. ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.

DRAWN	V. MECCA	19-25-40
TRACED	W. D. AMERSON	10-2-40
CHECKED	E. J. HALL	10-2-40
SUPERVISOR	E. J. HALL	10-2-40
STRUCTURE		
CHIEF DRAFT.		
PROJ. ENG.		
ASST. CHY. ENG.		
APPROVAL		

ALTERNATIONS
1-10 WAS 68150
2-1/4 ASSEM. FOR
3-10 WAS 68150

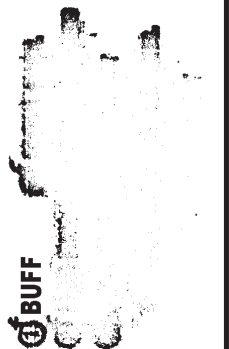
FITTING WING TIP FLOAT STRUTS

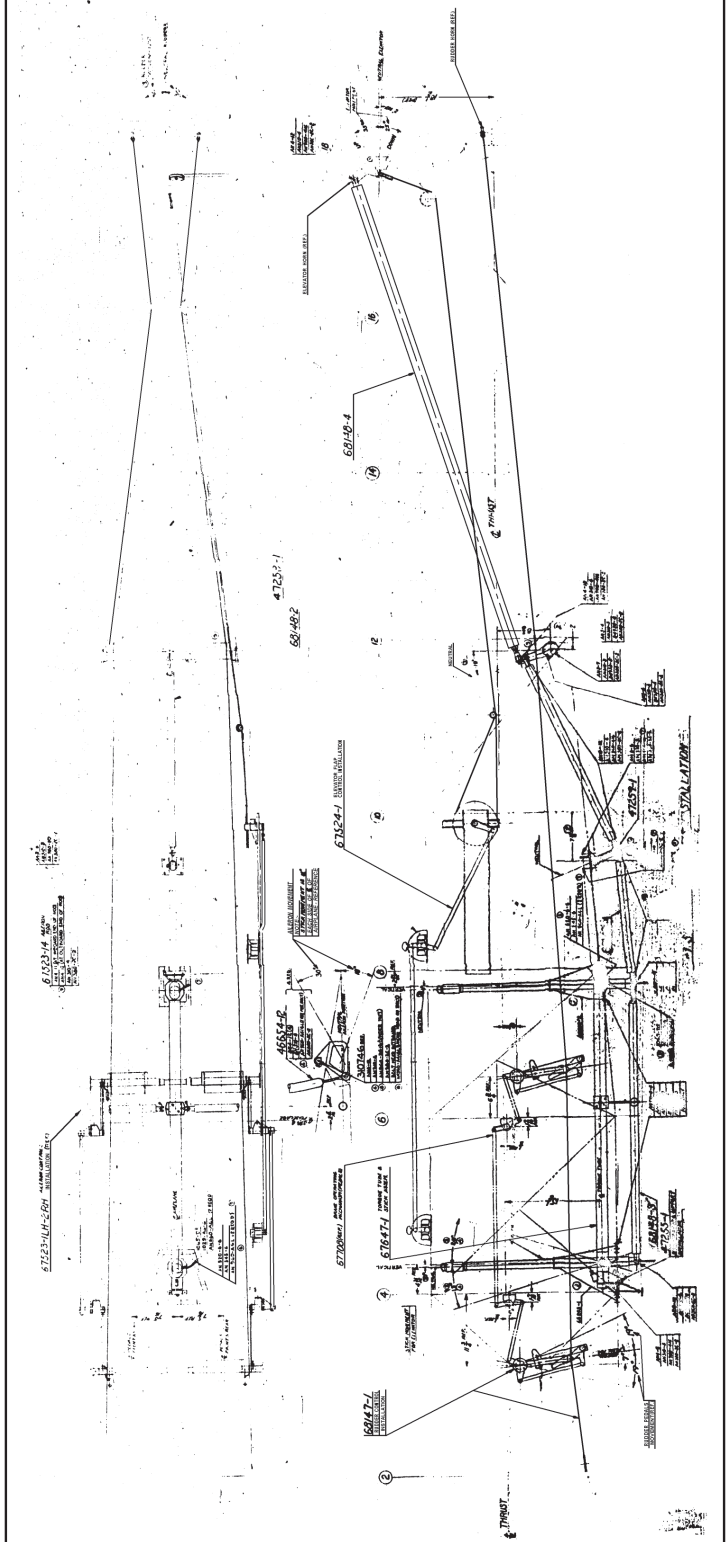
SUPERSEDED BY 67645-9

SCALE FULL SIZE REF. DRAWING NO. 67645-9

NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

(1)
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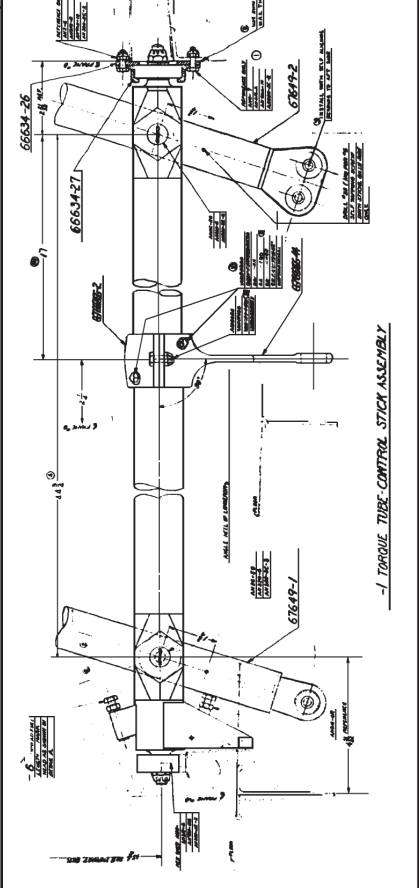
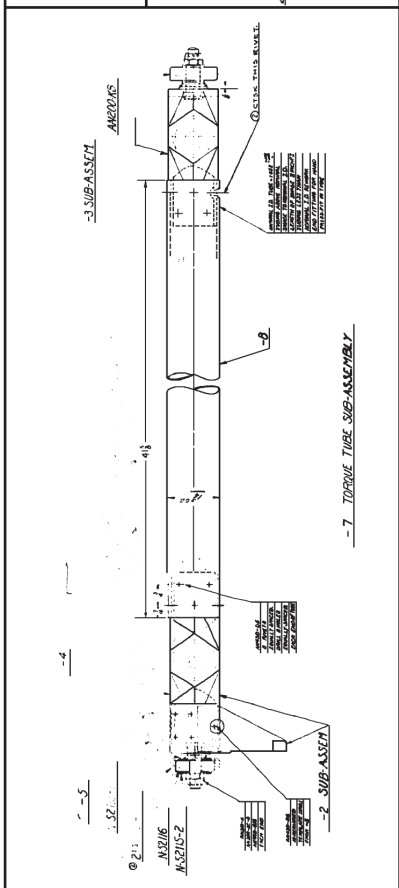
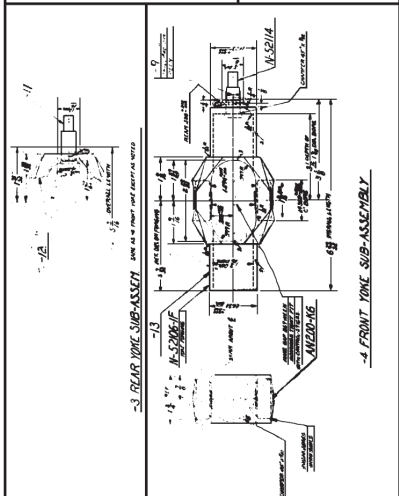
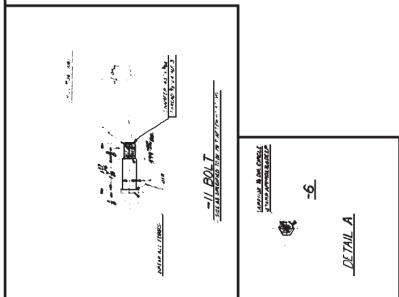


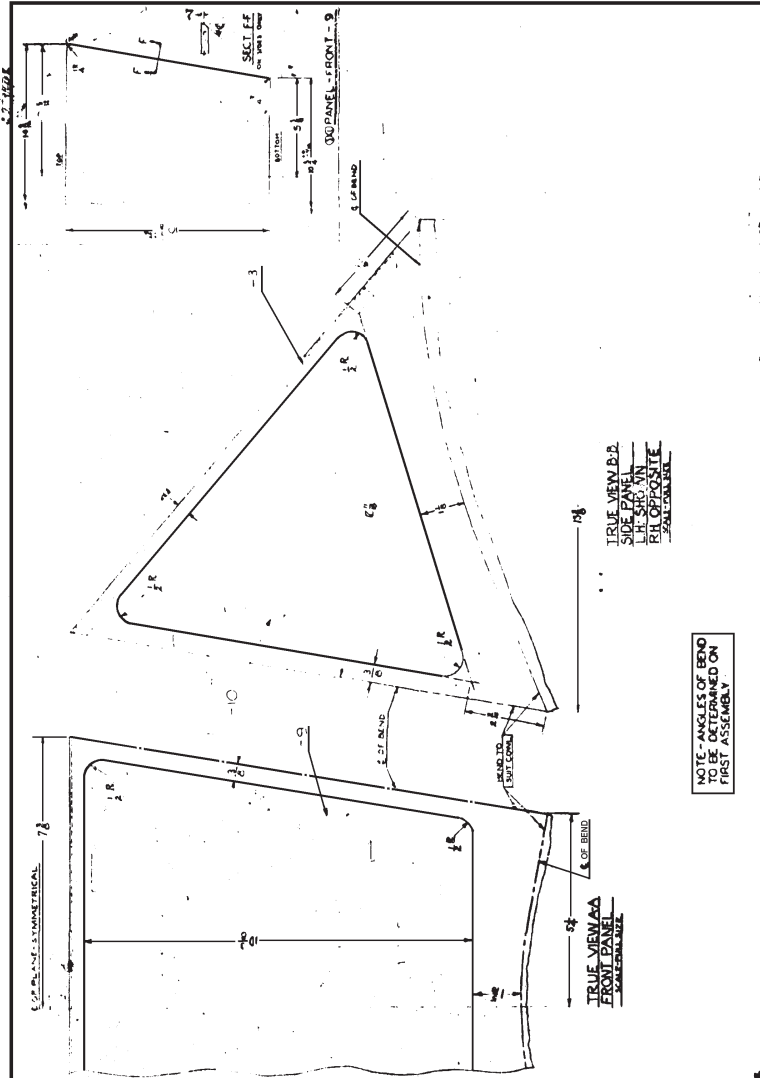


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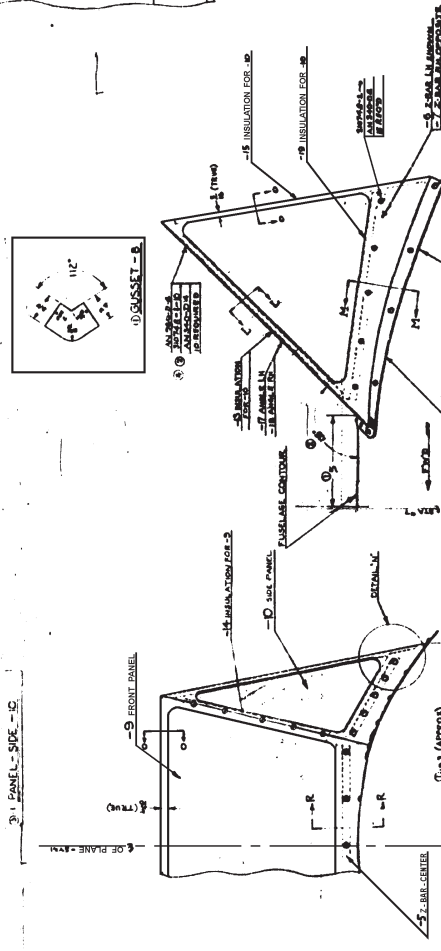
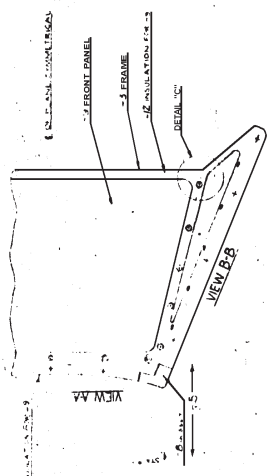
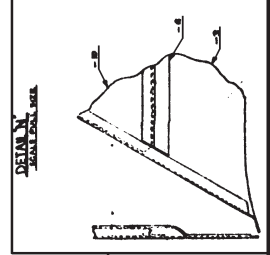
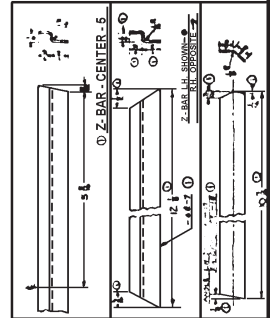
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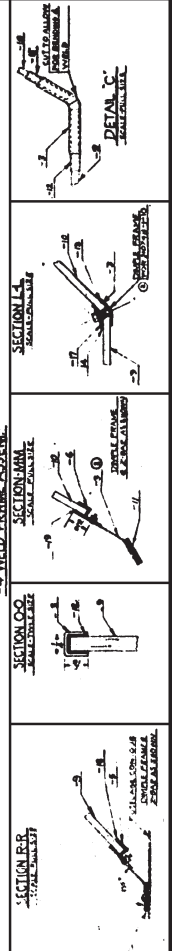




NOTE - ANGLES OF BEND TO BE DETERMINED ON FIRST ASSEMBLY



-2- REAR WINDSHIELD ASSEM.



Material Specifications Table:

ITEM	DESCRIPTION	QUANTITY	REMARKS
1	FRONT PANEL	1	1/2" ALUMINUM
2	FRONT FRAME	1	1/2" ALUMINUM
3	FRONT INSULATION	1	1/2" INSULATION
4	FRONT Z-BAR	1	1/2" ALUMINUM
5	FRONT INSULATION	1	1/2" INSULATION
6	FRONT Z-BAR	1	1/2" ALUMINUM
7	FRONT Z-BAR	1	1/2" ALUMINUM
8	FRONT Z-BAR	1	1/2" ALUMINUM
9	FRONT Z-BAR	1	1/2" ALUMINUM
10	FRONT Z-BAR	1	1/2" ALUMINUM
11	FRONT Z-BAR	1	1/2" ALUMINUM
12	FRONT Z-BAR	1	1/2" ALUMINUM
13	FRONT Z-BAR	1	1/2" ALUMINUM
14	FRONT Z-BAR	1	1/2" ALUMINUM
15	FRONT Z-BAR	1	1/2" ALUMINUM
16	FRONT Z-BAR	1	1/2" ALUMINUM
17	FRONT Z-BAR	1	1/2" ALUMINUM
18	FRONT Z-BAR	1	1/2" ALUMINUM
19	FRONT Z-BAR	1	1/2" ALUMINUM
20	FRONT Z-BAR	1	1/2" ALUMINUM
21	FRONT Z-BAR	1	1/2" ALUMINUM
22	FRONT Z-BAR	1	1/2" ALUMINUM
23	FRONT Z-BAR	1	1/2" ALUMINUM
24	FRONT Z-BAR	1	1/2" ALUMINUM
25	FRONT Z-BAR	1	1/2" ALUMINUM
26	FRONT Z-BAR	1	1/2" ALUMINUM
27	FRONT Z-BAR	1	1/2" ALUMINUM
28	FRONT Z-BAR	1	1/2" ALUMINUM
29	FRONT Z-BAR	1	1/2" ALUMINUM
30	FRONT Z-BAR	1	1/2" ALUMINUM
31	FRONT Z-BAR	1	1/2" ALUMINUM
32	FRONT Z-BAR	1	1/2" ALUMINUM
33	FRONT Z-BAR	1	1/2" ALUMINUM
34	FRONT Z-BAR	1	1/2" ALUMINUM
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39	FRONT Z-BAR	1	1/2" ALUMINUM
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42	FRONT Z-BAR	1	1/2" ALUMINUM
43	FRONT Z-BAR	1	1/2" ALUMINUM
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50	FRONT Z-BAR	1	1/2" ALUMINUM
51	FRONT Z-BAR	1	1/2" ALUMINUM
52	FRONT Z-BAR	1	1/2" ALUMINUM
53	FRONT Z-BAR	1	1/2" ALUMINUM
54	FRONT Z-BAR	1	1/2" ALUMINUM
55	FRONT Z-BAR	1	1/2" ALUMINUM
56	FRONT Z-BAR	1	1/2" ALUMINUM
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59	FRONT Z-BAR	1	1/2" ALUMINUM
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62	FRONT Z-BAR	1	1/2" ALUMINUM
63	FRONT Z-BAR	1	1/2" ALUMINUM
64	FRONT Z-BAR	1	1/2" ALUMINUM
65	FRONT Z-BAR	1	1/2" ALUMINUM
66	FRONT Z-BAR	1	1/2" ALUMINUM
67	FRONT Z-BAR	1	1/2" ALUMINUM
68	FRONT Z-BAR	1	1/2" ALUMINUM
69	FRONT Z-BAR	1	1/2" ALUMINUM
70	FRONT Z-BAR	1	1/2" ALUMINUM
71	FRONT Z-BAR	1	1/2" ALUMINUM
72	FRONT Z-BAR	1	1/2" ALUMINUM
73	FRONT Z-BAR	1	1/2" ALUMINUM
74	FRONT Z-BAR	1	1/2" ALUMINUM
75	FRONT Z-BAR	1	1/2" ALUMINUM
76	FRONT Z-BAR	1	1/2" ALUMINUM
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78	FRONT Z-BAR	1	1/2" ALUMINUM
79	FRONT Z-BAR	1	1/2" ALUMINUM
80	FRONT Z-BAR	1	1/2" ALUMINUM
81	FRONT Z-BAR	1	1/2" ALUMINUM
82	FRONT Z-BAR	1	1/2" ALUMINUM
83	FRONT Z-BAR	1	1/2" ALUMINUM
84	FRONT Z-BAR	1	1/2" ALUMINUM
85	FRONT Z-BAR	1	1/2" ALUMINUM
86	FRONT Z-BAR	1	1/2" ALUMINUM
87	FRONT Z-BAR	1	1/2" ALUMINUM
88	FRONT Z-BAR	1	1/2" ALUMINUM
89	FRONT Z-BAR	1	1/2" ALUMINUM
90	FRONT Z-BAR	1	1/2" ALUMINUM
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92	FRONT Z-BAR	1	1/2" ALUMINUM
93	FRONT Z-BAR	1	1/2" ALUMINUM
94	FRONT Z-BAR	1	1/2" ALUMINUM
95	FRONT Z-BAR	1	1/2" ALUMINUM
96	FRONT Z-BAR	1	1/2" ALUMINUM
97	FRONT Z-BAR	1	1/2" ALUMINUM
98	FRONT Z-BAR	1	1/2" ALUMINUM
99	FRONT Z-BAR	1	1/2" ALUMINUM
100	FRONT Z-BAR	1	1/2" ALUMINUM

REFRESH ASSEMBLY 2



TO BE EXAMINED BY
 QUALITY CONTROL
 FIRST & LAST TIME (6)

AMOUNT OF TAPES WAS 117.5 ON
 A 15.5 INCHES TO 10.5 INCHES
 12-22-53 INC



(5) MARKING

117.5 INCHES TO 10.5 INCHES

20.5 (3) (6)

MEAN OF TWO
 READINGS

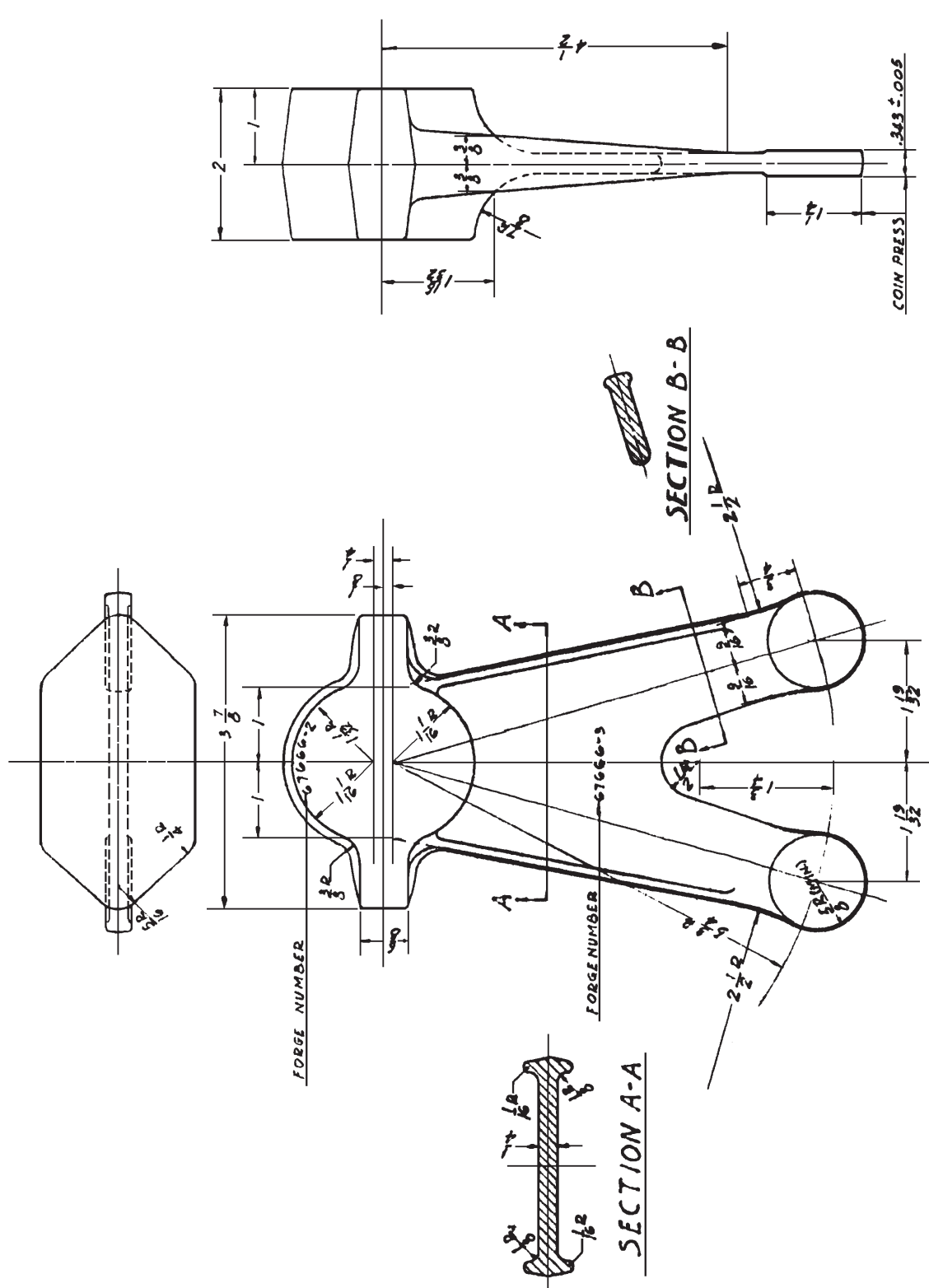
QUALITY CONTROL
 CHECK FOR MARKING

117.5 INCHES TO 10.5 INCHES

NOTES:
 1. SUPPLY IS TO BE FINISHED AS SHOWN
 WITH SPEC. MATERIALS AND FINISHES
 2. MARKING TO BE MADE AS SHOWN TO REPORT
 3. MARKING TO BE MADE AS SHOWN TO REPORT
 4. MARKING TO BE MADE AS SHOWN TO REPORT
 5. MARKING TO BE MADE AS SHOWN TO REPORT

STICKS - CONT. RO.
 7049

DRAFT ANGLES 7°
 TOLERANCES ± .005
 ALL DIMENSIONS TO BE MADE WITH 7/8 SIZES
 DRAWN OF MATERIAL TO POLISH SPECIFICATION OR UIC ALL FILED EACH 7/4

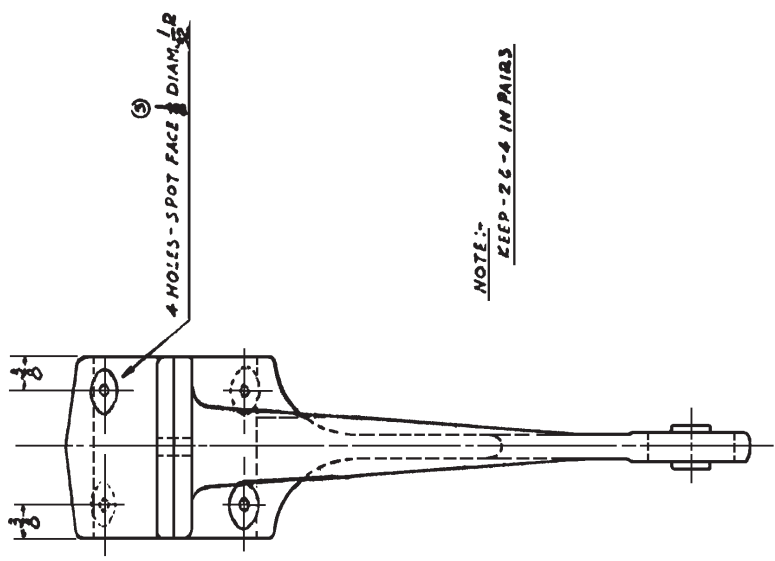
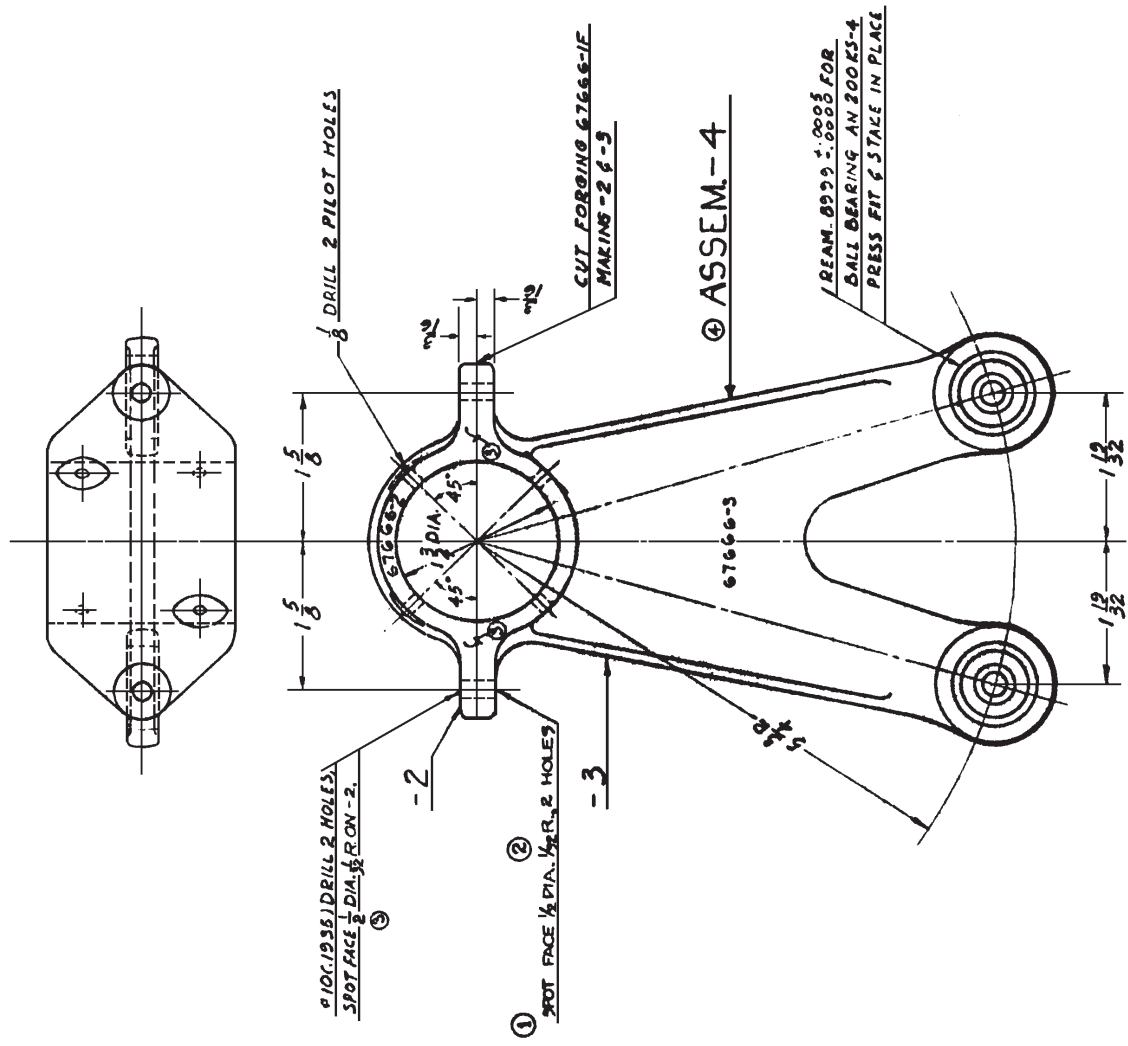


1	67666-2	67666-IF	ARM	FORGING	ALLOY	1207	18-8	31600				
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.		
N3N-3												
DIMENSIONS ARE IN INCHES, LIMITS ±												
DRAWN BY: LORNE (11-8-39)												
CHECKED BY: (11-8-39)												
SUPERVISOR: (11-8-39)												
STRUCTURE: (11-8-39)												
CHIEF DRAFT: (11-8-39)												
PROJ. ENG.: (11-8-39)												
MKT. CRT. REL.: (11-8-39)												
APPROVAL:												
ALTERNATIONS:												
SUPERSEDED BY:												
SCALE: FULL SIZE												
REG. DRAWING: 67666-IF												
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA												

ARM
 AIRLORON CONTROL - FORGING

Hand 11/12/37

- ① DRILL
- ② GRIND
- ③ REAM
- ④ POLISH
- ⑤ FINISH



NOTE: KEEP - 2 6 - 4 IN PAIRS

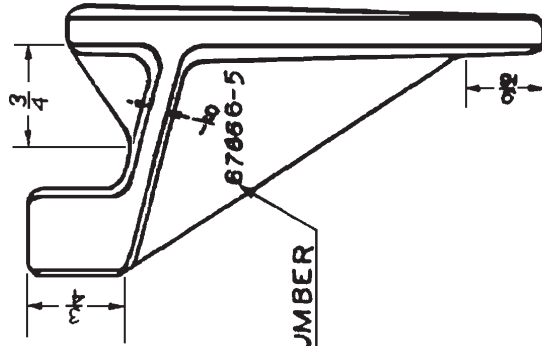
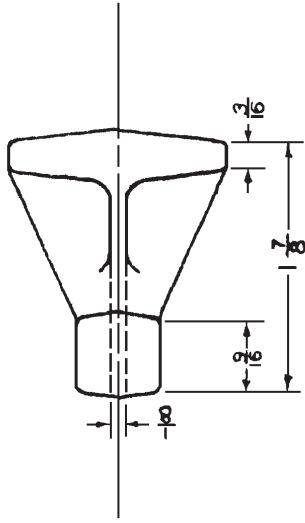
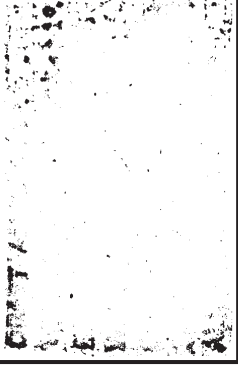
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
2	67666-4	AN20063	BEARING	STANDARD						
1	67647-1	67666-2	CAP	67666-1F						
1	67666-4	67666-3	ARM	67666-1F						
1	67647-1	67666-4	ARM	ASSEMBLY						

DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS: ±1/64 DECIMALS ±.010 ANGLES ±.1° UNLESS OTHERWISE NOTED.	
NO. 1	ASSEM.	NO. 2	ASSEM.
NO. 3	ASSEM.	NO. 4	ASSEM.
NO. 5	ASSEM.	NO. 6	ASSEM.
NO. 7	ASSEM.	NO. 8	ASSEM.
NO. 9	ASSEM.	NO. 10	ASSEM.
NO. 11	ASSEM.	NO. 12	ASSEM.
NO. 13	ASSEM.	NO. 14	ASSEM.
NO. 15	ASSEM.	NO. 16	ASSEM.
NO. 17	ASSEM.	NO. 18	ASSEM.
NO. 19	ASSEM.	NO. 20	ASSEM.
NO. 21	ASSEM.	NO. 22	ASSEM.
NO. 23	ASSEM.	NO. 24	ASSEM.
NO. 25	ASSEM.	NO. 26	ASSEM.
NO. 27	ASSEM.	NO. 28	ASSEM.
NO. 29	ASSEM.	NO. 30	ASSEM.
NO. 31	ASSEM.	NO. 32	ASSEM.
NO. 33	ASSEM.	NO. 34	ASSEM.
NO. 35	ASSEM.	NO. 36	ASSEM.
NO. 37	ASSEM.	NO. 38	ASSEM.
NO. 39	ASSEM.	NO. 40	ASSEM.
NO. 41	ASSEM.	NO. 42	ASSEM.
NO. 43	ASSEM.	NO. 44	ASSEM.
NO. 45	ASSEM.	NO. 46	ASSEM.
NO. 47	ASSEM.	NO. 48	ASSEM.
NO. 49	ASSEM.	NO. 50	ASSEM.
NO. 51	ASSEM.	NO. 52	ASSEM.
NO. 53	ASSEM.	NO. 54	ASSEM.
NO. 55	ASSEM.	NO. 56	ASSEM.
NO. 57	ASSEM.	NO. 58	ASSEM.
NO. 59	ASSEM.	NO. 60	ASSEM.
NO. 61	ASSEM.	NO. 62	ASSEM.
NO. 63	ASSEM.	NO. 64	ASSEM.
NO. 65	ASSEM.	NO. 66	ASSEM.
NO. 67	ASSEM.	NO. 68	ASSEM.
NO. 69	ASSEM.	NO. 70	ASSEM.
NO. 71	ASSEM.	NO. 72	ASSEM.
NO. 73	ASSEM.	NO. 74	ASSEM.
NO. 75	ASSEM.	NO. 76	ASSEM.
NO. 77	ASSEM.	NO. 78	ASSEM.
NO. 79	ASSEM.	NO. 80	ASSEM.
NO. 81	ASSEM.	NO. 82	ASSEM.
NO. 83	ASSEM.	NO. 84	ASSEM.
NO. 85	ASSEM.	NO. 86	ASSEM.
NO. 87	ASSEM.	NO. 88	ASSEM.
NO. 89	ASSEM.	NO. 90	ASSEM.
NO. 91	ASSEM.	NO. 92	ASSEM.
NO. 93	ASSEM.	NO. 94	ASSEM.
NO. 95	ASSEM.	NO. 96	ASSEM.
NO. 97	ASSEM.	NO. 98	ASSEM.
NO. 99	ASSEM.	NO. 100	ASSEM.

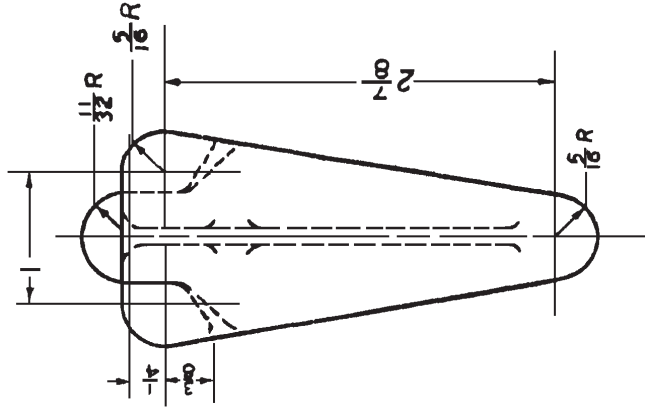
ARM
 ALLERON CONTROL - ASSEMBLY
 SUPERSEDED BY 67666-4
 SCALE FULL SIZE
 NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

67666-5F

AS 11/12/39



FORGE NUMBER

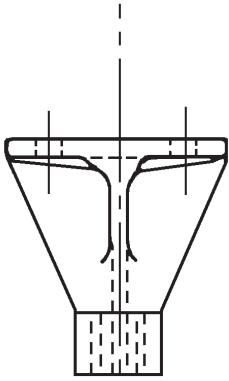


NO. REQ.	ASSEM.	67666-5	67666-5F	BRACKET	FORGING	ALUM ALLOY	67666-5	SR53	55,000	FINISH EST. WT.	ACT. WT.
N3N-3		DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± DECIMALS ±.010. ANGLES ±.4°. UNLESS OTHERWISE NOTED.									
ALTERNATIONS											
DRAWN											
CHECKED											
SUPERVISOR											
STRUCTURE											
CHIEF DRAFT.											
FRG. ENR.											
ASST. CH'F. ENR.											
APPROVAL											
BRACKET											
AILERON CONTROL-INBOARD-FORGING											
SUPERSEDED BY											
SCALE											
FULL SIZE REF. DRAWING											
67666-5F											
NAVAL AIRCRAFT FACTORY PHILADELPHIA											

9-99979

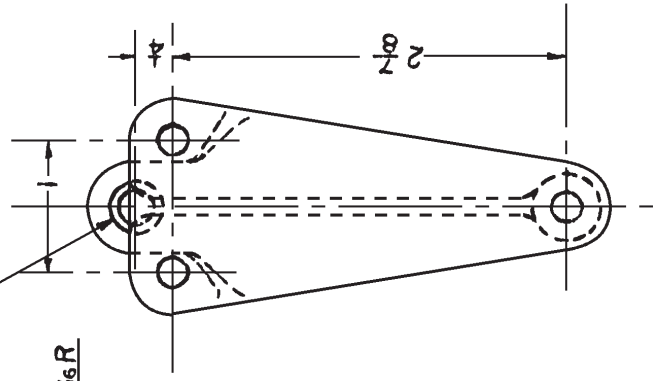
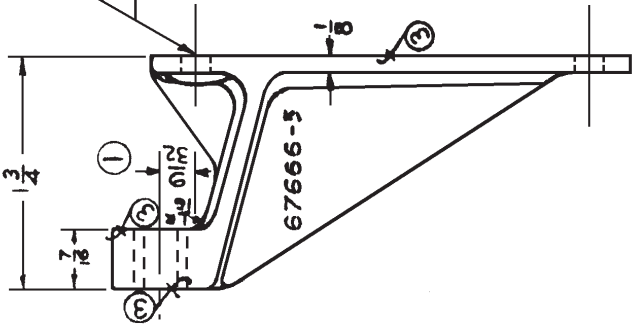
A B 1/1/39

- ① BUFF
- ② REAM
- ③ POLISH



REAM .375 ^{±.001}
 FOR 1066-4-2 E
 PRESS FIT
 REAM BUSHING .250 ^{±.002}

#10 (.1935) DRILL
 SPOT FACE 1/2 DIA. 1/16 R
 3 HOLES



1	67666-6	1068-4-28	BUSHING																	
1	67666-8	67666-5	BRACKET				67666-5F													
3	68119	67666-0	BRACKET ASSEM.																	
NO. REQ. ASSEM. PART NO.			NAME		STOCK		MATERIAL SPEC.		HT. T. / SQ. IN. U.T.S. FINISH		EST. WT. ACT. WT.									
N3N-3			DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ±		ZINN		10-26-39											
			ALTERNATIONS		DRAWN TRACED		CHECKED		SUPERVISOR		STRUCTURE		CHIEF DRAFT		PROJ. ENG.		ASST. CHT. ENG.		APPROVAL	
			DIMENSIONS ADD FOR CLEARANCE		6-18-40		11-18-39		11-18-39		11-18-39		11-18-39		11-18-39		11-18-39		11-18-39	
			TOP CLEARANCE		11-18-40		11-18-39		11-18-39		11-18-39		11-18-39		11-18-39		11-18-39		11-18-39	

W

BRACKET
 AILERON CONTROL - INBOARD - ASSEM.

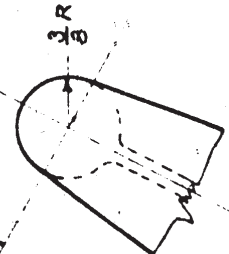
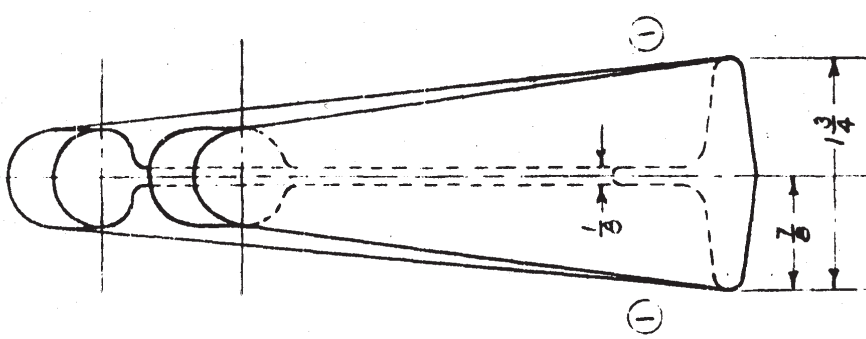
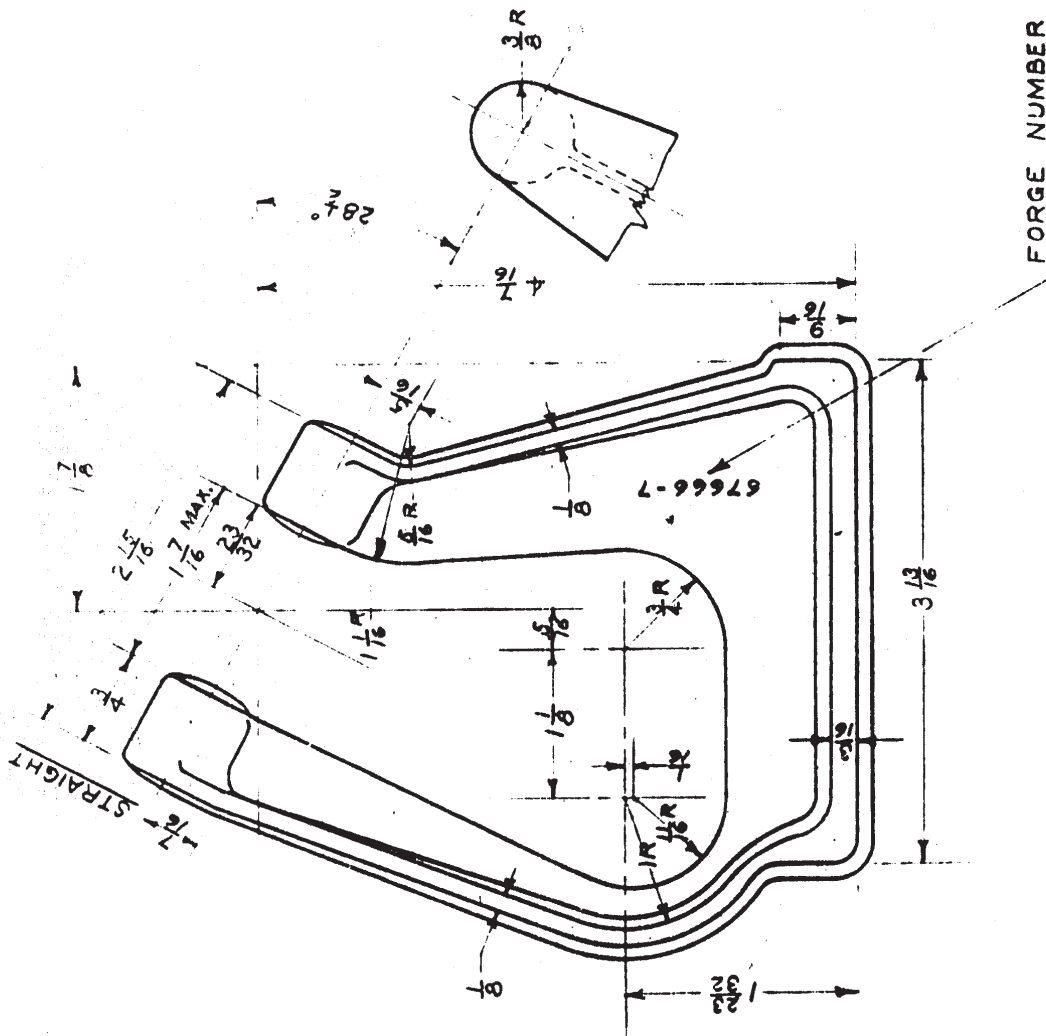
SUPERSEDED BY
 SCALE
 FULL SIZE
 NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

67666-6

REF. DRAWING
 SUPERSEDES

67666-7F

AP 11/15/59



1	67666-767666-7F	BRACKET	FORGING	AL. ALLOY	SR 53	55000
NO. REQ.	ASSEM.	PART NO.	STOCK	MATERIAL	SPEC.	FINISH
DESIGNED FOR				DIMENSIONS ARE IN INCHES, LIMITS		
NSN-3				LIPPENHOLE 10-25		
ALTERNATIONS				BY DATE 11-10-35		
JOB NO.				104-35		
TO PAGE				1-1-1		
MADE TANGENT				11/15/59		
END VIEW: SIDE S				11/15/59		
				11/15/59		
				11/15/59		
				11/15/59		
				11/15/59		
				11/15/59		
				11/15/59		

BRACKET AILERON CONTROL
OUTBOARD

SUPPLEMENTED BY

SCALE

FULL SIZE

REF. DRAWING

67666

NAVY YARD

8-99979

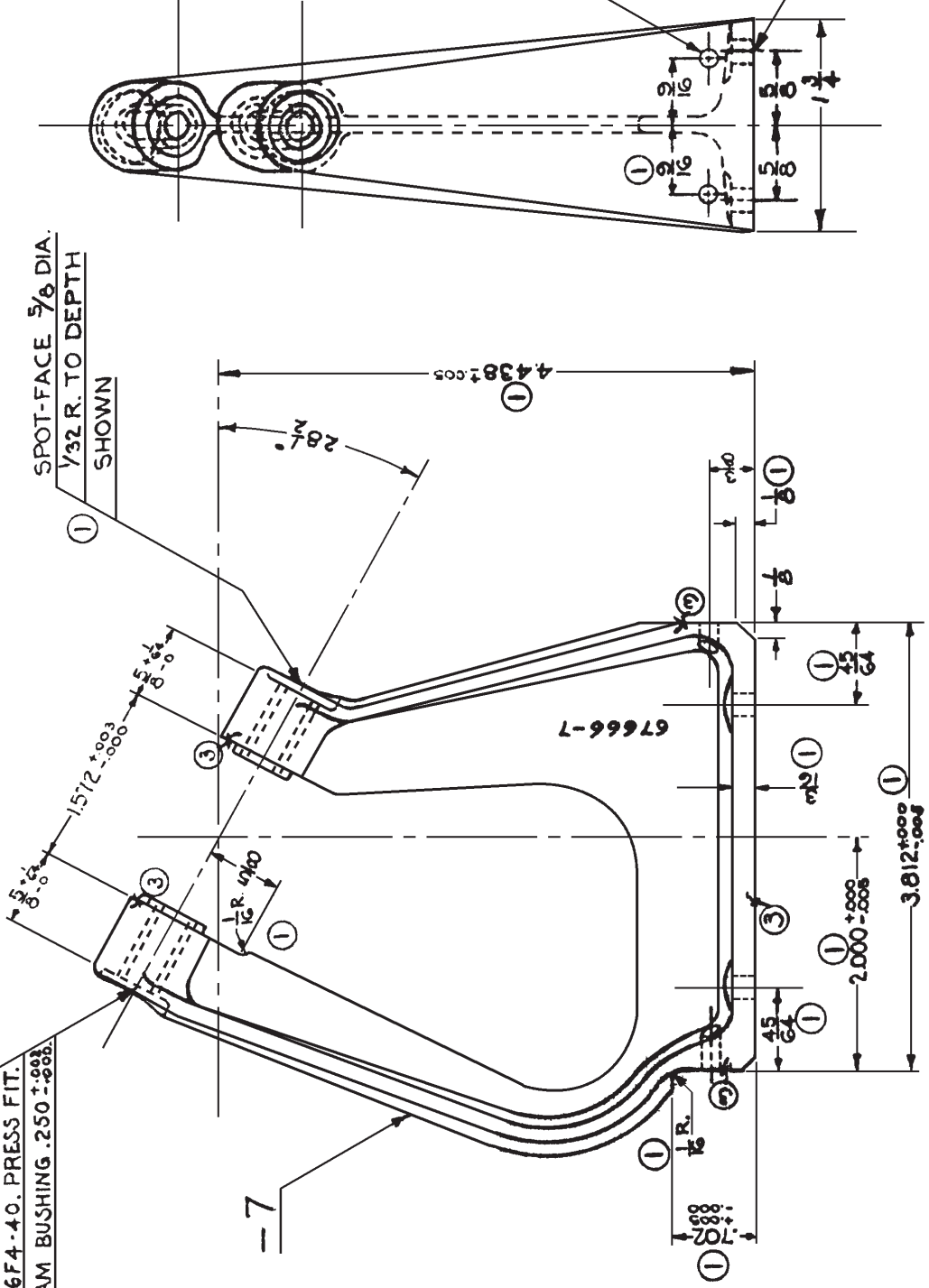
Q 5 1/2 1/3 2

REAM .375 $\pm .001$ FOR
 1066F4-40. PRESS FIT.
 REAM BUSHING .250 $\pm .001$

SPOT-FACE $\frac{5}{16}$ DIA.
 $\frac{1}{32}$ R. TO DEPTH
 SHOWN

① #20 (.161) DRILL
 4 HOLES

① #10 (.1935) DRILL
 4 HOLES IN BASE
 SPOT-FACE $\frac{1}{2}$ DIA., $\frac{1}{32}$ R.



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T. / SQ. IN.	FINISH	EST. WT. ACT. WT.
2		1066F4-40	BUSHING					
1		67666-7	BRACKET	67666-7F				
1		67666-8	BRACKET					

DIMENSIONS ARE IN INCHES. LIMITS \pm DECIMALS $\pm .010$, ANGLES $\pm \frac{1}{2}^\circ$, UNLESS OTHERWISE NOTED.	
DRAWN TRACED	
CHECKED	
SUPERVISOR	
STRUCTURE	
CHIEF DRAFT.	
PROJ. ENG.	
ASST. CHIEF. ENG.	
APPROVAL	

ALTERNATIONS	
①	1-19-40 LIT
	FD, DIMS. ADDED
	JOB FOR

DESIGNED FOR	
N3N-3	

SUPERSEDED BY	

SCALE	
FULL SIZE	

REF. DRAWING NO.	
67666-8	

SUPERSEDES	

BRACKET ALERON CONTROL OUTBOARD ASSEMBLY	

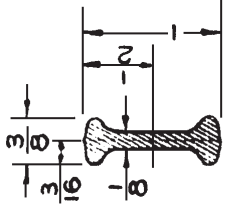
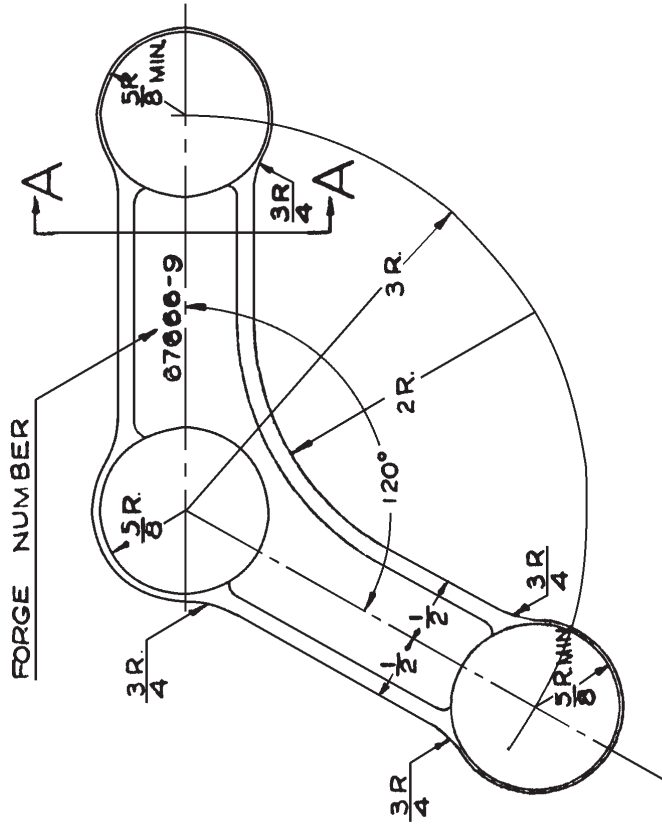
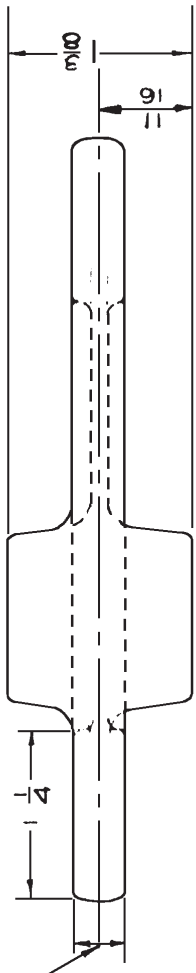
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA	

67666-9F

4 D 11/31/39

DRAFT
ALL

COIN PRESS .343 ± .005
TO LINE SHOWN, BOTH ENDS

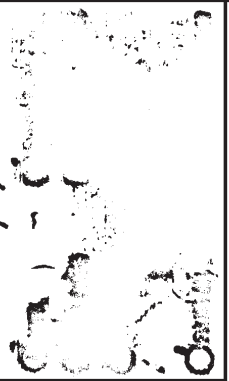


SECTION - A A

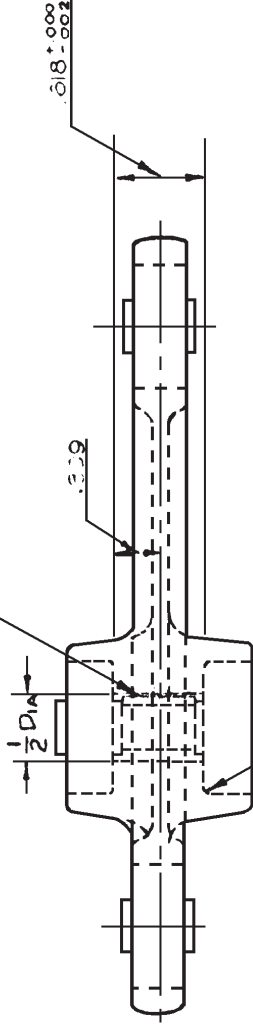
1	67666-9	67666-9F	BELL CRANK	FORGING	ALUM ALLOY	46A7	SR53	55000	.4
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH
DIMENSIONS ARE IN INCHES. LIMITS ± DECIMALS ± .010, ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.									
DESIGNED FOR									
ALTERNATIONS									
DRAWN TRACED SIMPSON 10-25-39									
CHECKED [Signature] 11-10-39									
SUPERVISOR [Signature] 11-15-39									
STRUCTURE [Signature] 11-15-39									
CHIEF DRAFT. [Signature] 11-16-39									
PROJ. ENG. [Signature] 11-16-39									
ASST. CRY. ENG. [Signature] 11-21-39									
APPROVAL [Signature]									
BELLS CRANK SURFACE CONTROLS - FORGING									
SUPERSEDED BY									
SCALE FULL SIZE									
REF. DRAWING 67666-9F									
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA									

01-99979

AS 11/21/39

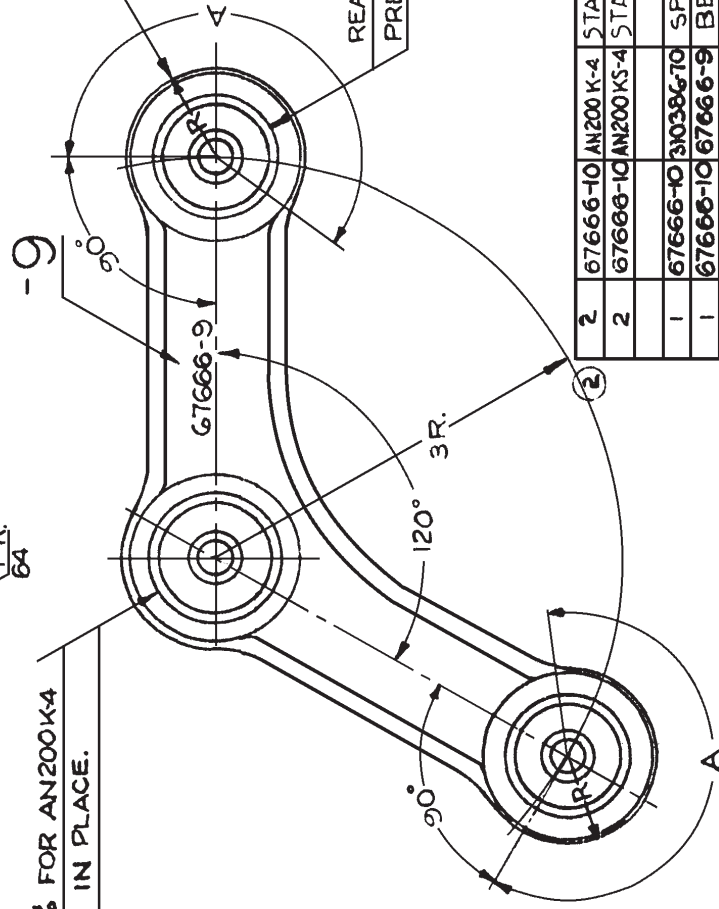


210386-70 SPACER, MUST FIT SNUGLY AGAINST INNER RING OF BOTH BEARINGS



REMOVE EXCESS MATERIAL WITHIN ANGLE "A" WHERE RADIUS "R" EXCEEDS 1/16

REAM .8999 $\pm .0005$ FOR AN200K4 PRESS FIT, STAKE IN PLACE.



REAM .8999 $\pm .0005$ FOR AN200K5-4, BOTH ENDS PRESS FIT, STAKE IN PLACE.

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	U. T. S.	FINISH	EST. WT.	ACT. WT.
2	67666-10	AN200 K-4	STANDARD							
2	67666-10	AN200 K5-4	STANDARD							
1	67666-10	31038670	SPACER							
1	67666-10	67666-9	BELL CRANK	67666-9F				PF-141		
1	67523-2	67666-10	BELL CRANK ASSEMBLY							

DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS $\pm 1/64$ DECIMALS $\pm .010$ ANGLES $\pm 1/2^\circ$ UNLESS OTHERWISE NOTED.	
DRAWN	TRACED	SYMBOL	10-23-35
CHECKED			
SUPERVISOR			
STRUCTURE			
CHIEF DRAFT.			
PROJ. ENG.			
ASST. CHIEF. ENG.			
APPROVAL			

ALTERNATIONS	
1	1-25-40 R/L
2	9-9-41 R/L

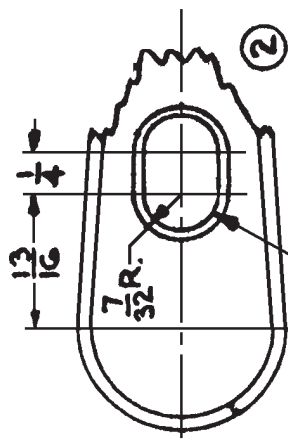
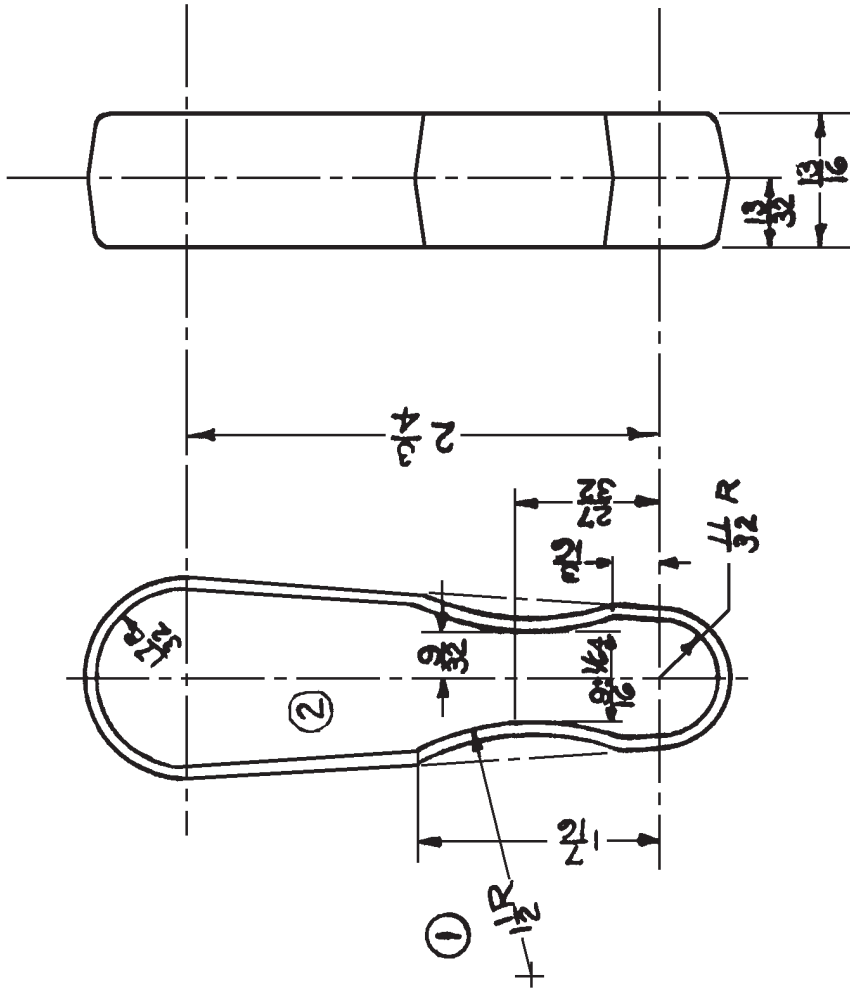
NOTE ADDED TO REMOVE EXCESS MATERIAL	
1	AN 200K-4 QUANTITY 2 WAS 1 REQ.

N3N-3	
NO. REQ.	ASSEM.

BELL CRANK	
SURFACE CONTROLS - ASSEMBLY	
SUPERSEDED BY	
SCALE	
FULL SIZE	
REF. DRAWING NO.	67666-10
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA	

67666-1IF

Edw. 11/24/38



1/32 RECESS,
BOTH SIDES

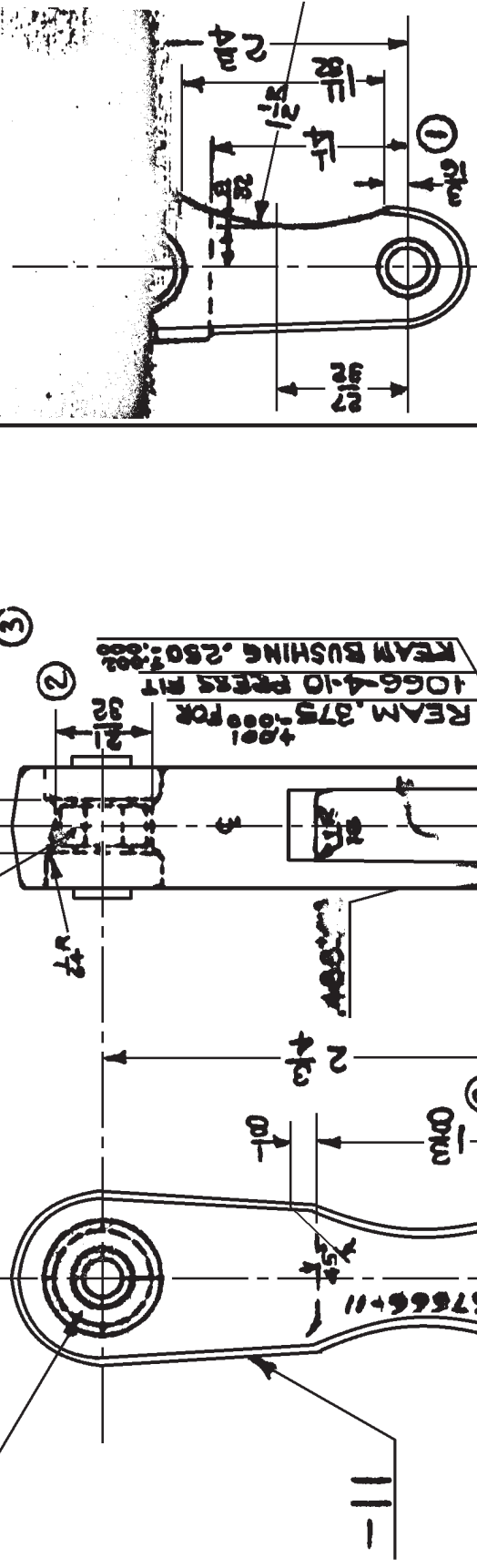
FOR RECORD ONLY,
USED ON AIRPLANES
NO'S. 1759 TO 1808
AND 1908 TO 2007.

1	67666-11	67666-1IF	IDLER	FORGING	ALLOY	SR 53	—	—	—
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	U. T. S.	FINISH	EST. WT. ACT. WT.
DIMENSIONS ARE IN INCHES. LIMITS ± DECIMALS ± .010. ANGLES ± 1/4°, UNLESS OTHERWISE NOTED.									
NSN-3			DESIGNED FOR						
PARTS TO BE REMOVED FOR RECORD			(1) 12-29-38 (2) 4-12-38 DIMENSIONS TO BE CONCAVED LIMITS						
ALTERATIONS			DRAWN TRACED CHECKED SUPERVISOR STRUCTURE CHIEF DRAFT. PROJ. ENG. ASST. CHIEF. ENG. APPROVAL						
SUPERSEDED BY			IDLER						
SCALE			SURFACE CONTROL - FORGING						
FULL SIZE			SUPERSEDES						
REF. DRAWING NO.			67666-1IF						
NAVY YARD			NAVAL AIRCRAFT FACTORY PHILADELPHIA						

1/21/59

REAM .7490 ±.0009 FOR AN201K4A PRESS FIT STAKE IN PLACE

310386-71 MUST FIT SNUGGLY AGAINST INNER RING BOTH BEARINGS ±.0002



FOR RECORD ONLY, USED ON AIRPLANES NOS. 1759 TO 1803 AND 1908 TO 1917

2	67-5-12 1066-4-10						
2							
1							
1			67666-11F				
2							

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL SPEC.	HT. T.	U.T.S. / SQ. IN.	FINISH EST. WT.	ACT. WT.										
DIMENSIONS ARE IN INCHES, LIMITS ± DECIMALS ±.010, ANGLES ± ½°, UNLESS OTHERWISE NOTED.																			
N3N-3					DESIGNED FOR					DIMENSIONS ARE IN INCHES, LIMITS ±									
DETAIL CHANGE TO PART 71B-40										ALTERNATIONS									
WAS .562 ±.003 DIM. .244 .4968										CHECKED									
71B-40										SUPERVISOR									
71B-40										STRUCTURE									
71B-40										CHIEF DRAFT.									
71B-40										PROJ. ENG.									
71B-40										ASST. CHIEF. ENG.									
71B-40										APPROVAL									

IDLER SURFACE CONTROL ASSEMBLY

SUPERSEDED BY **67666-12**

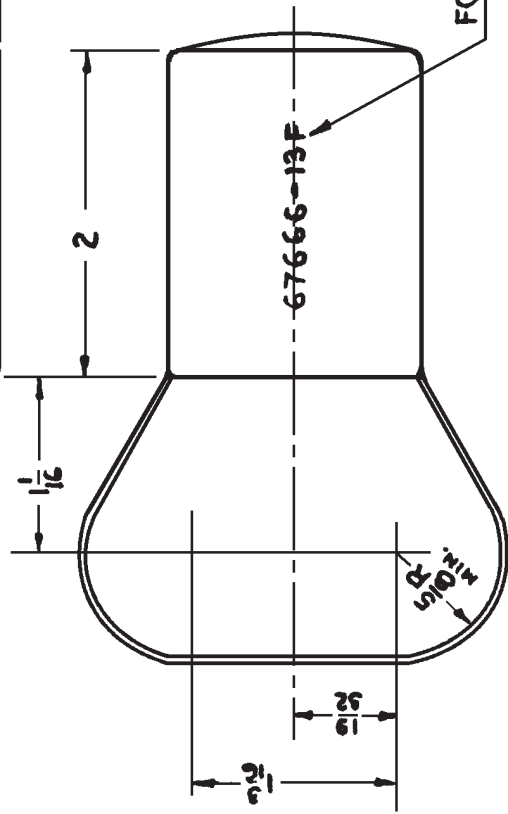
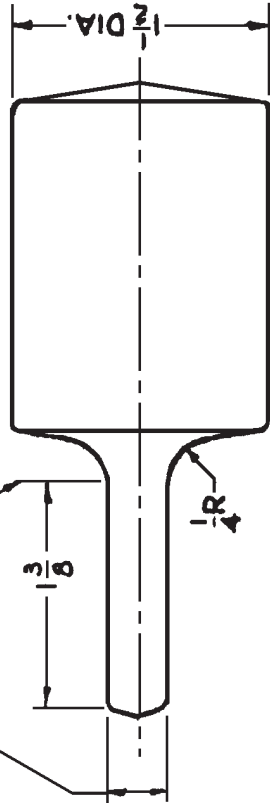
SCALE FULL SIZE REF. DRAWING NO. **67666-12** NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

ord. 11/21/38

67666-13F

COIN PRESS 343 ±.005

TO THIS LINE.



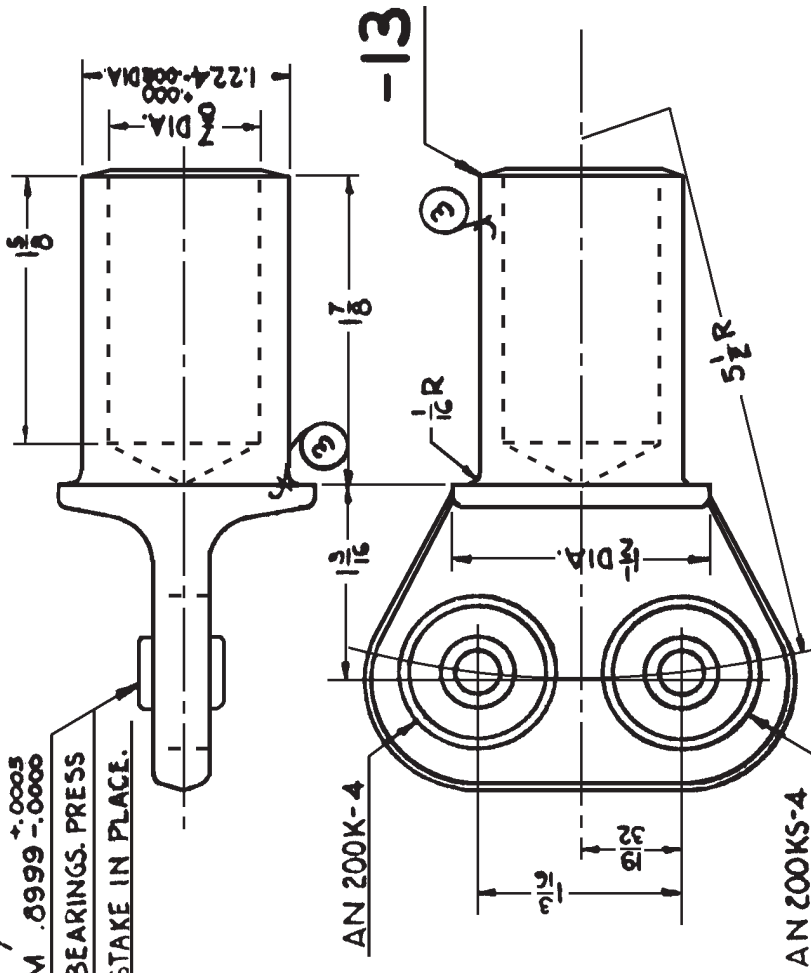
FORGE NUMBER

NO. REQ.	67666-13	67666-13F	FITTING	FORGING	AL. ALLOY	4647	SR53	55000	—	—
ASSEM.	13	13F		STOCK	MATERIAL	GR. 1		HT. T.	1/16	FINISH
DESIGNED FOR			DIMENSIONS ARE IN INCHES, LIMITS ±			DECIMALS ±.010, ANGLES ±1/2°, UNLESS OTHERWISE NOTED.				
N3N-3			DRAWN			DAPUZZI			TORQUE TUBE - FORGING	
			CHECKED			P. [Signature]			SUPERSEDED BY	
			SUPERVISOR			A. [Signature]			SCALE	
			STRUCTURE			K. [Signature]			FULL SIZE	
			CHIEF DRAFT.			M. [Signature]			REF. DRAWING	
			PROJ. ENG.			K. [Signature]			67666-13F	
			ASST. CH'F. ENG.			G. [Signature]			NAVAL AIRCRAFT FACTORY	
			APPROVAL			[Signature]			PHILADELPHIA	

67666-14

Ord. 11/21/39

REAM .0999 $\pm .0005$
FOR BEARINGS. PRESS
FIT. STAKE IN PLACE.



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
1	67666-14	AN200K-4	BEARING	STANDARD	---	---	---	---	---	---	---
1	67666-14	AN200KS-4	BEARING	STANDARD	---	---	---	---	---	---	---
1	67666-14	67666-13	FITTING	67666-13F	---	---	---	---	PF-141	---	---
1	67649-2	67666-14	FITTING ASSEMBLY		---	---	---	---	---	.20	---

DIMENSIONS ARE IN INCHES. LIMITS $\pm 1/4$ DECIMALS $\pm .010$, ANGLES $\pm 1/2^\circ$, UNLESS OTHERWISE NOTED.

DESIGNED FOR		ALTERNATIONS	
DRAWN TRACED	DAPUZZO 10-26-39		
CHECKED	W. J. [Signature]		
SUPERVISOR	[Signature]		
STRUCTURE	[Signature]		
CHIEF DRFT.	[Signature]		
PROD. ENG.	[Signature]		
ASST. CH'F. ENG.	[Signature]		
APPROVAL	[Signature]		

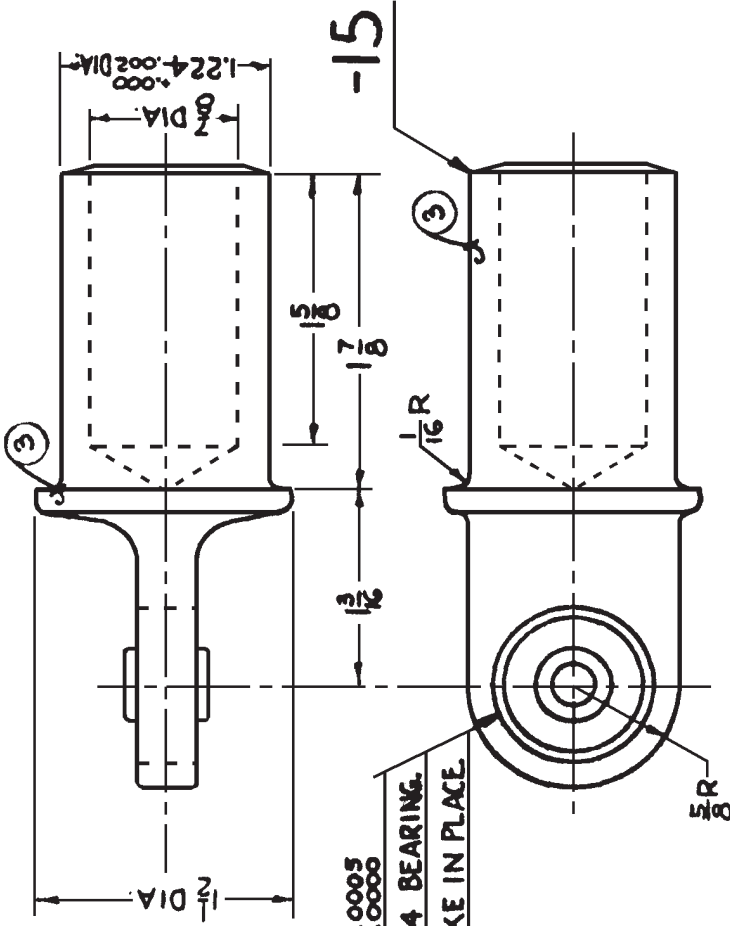
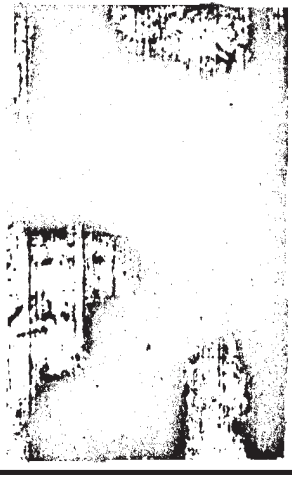
FITTING
TORQUE TUBE - REAR - ASSEMBLY

SUPERSEDED BY
SCALE
FULL SIZE

REF. DRAWING NO. **67666-14**
NAVY YARD **NAVAL AIRCRAFT FACTORY** PHILADELPHIA

67666-16

Ind. 4/21/39



REAM .8999 $\pm .0005$
FOR AN200K-4 BEARING.
PRESS FIT. STAKE IN PLACE.

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S. #/SQ.IN.	FINISH	EST. WT.	ACT. WT.
1	67666-16	AN200K-4	BEARING	STANDARD	---	---	---	---	---	---	---
1	67666-16	67666-15	FITTING	67666-13F	---	---	---	---	PF-141	---	---
1	67649-1	67666-16	FITTING ASSEMBLY	---	---	---	---	---	---	.20	---

N3N-3 ← DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS $\pm .010$, ANGLES $\pm \frac{1}{4}^\circ$, UNLESS OTHERWISE NOTED.

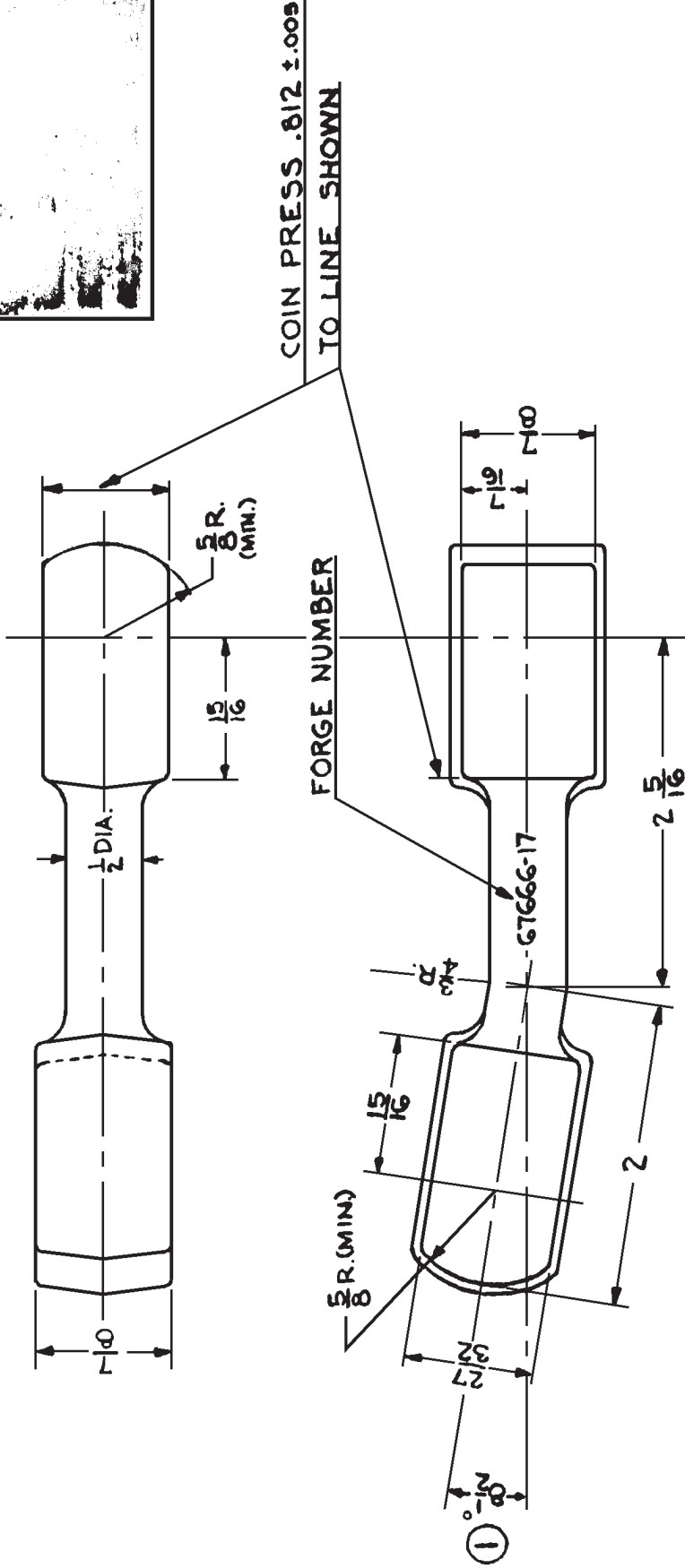
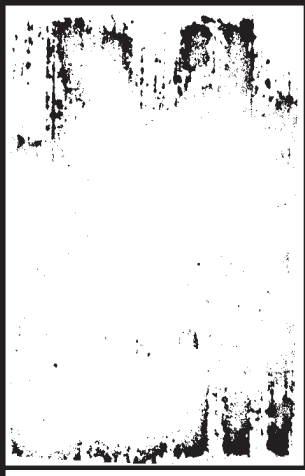
DRAWN TRACED	D'APUZZO	10-26-39
CHECKED	<i>[Signature]</i>	11-9-39
SUPERVISOR	<i>[Signature]</i>	1/14/40
STRUCTURE	<i>[Signature]</i>	1/14/37
CHIEF DRAFT.	<i>[Signature]</i>	1/14/37
PRD. ENG.	<i>[Signature]</i>	1/14/37
ASST. CHIEF. ENG.	<i>[Signature]</i>	1/14/37
APPROVAL		

FITTING
TORQUE TUBE - FRONT-ASSEMBLY

SUPERSEDED BY _____
SCALE _____
FULL SIZE _____
REF. DRAWING _____
NAVY YARD PHILADELPHIA

67666-17F

Order 1/21/39

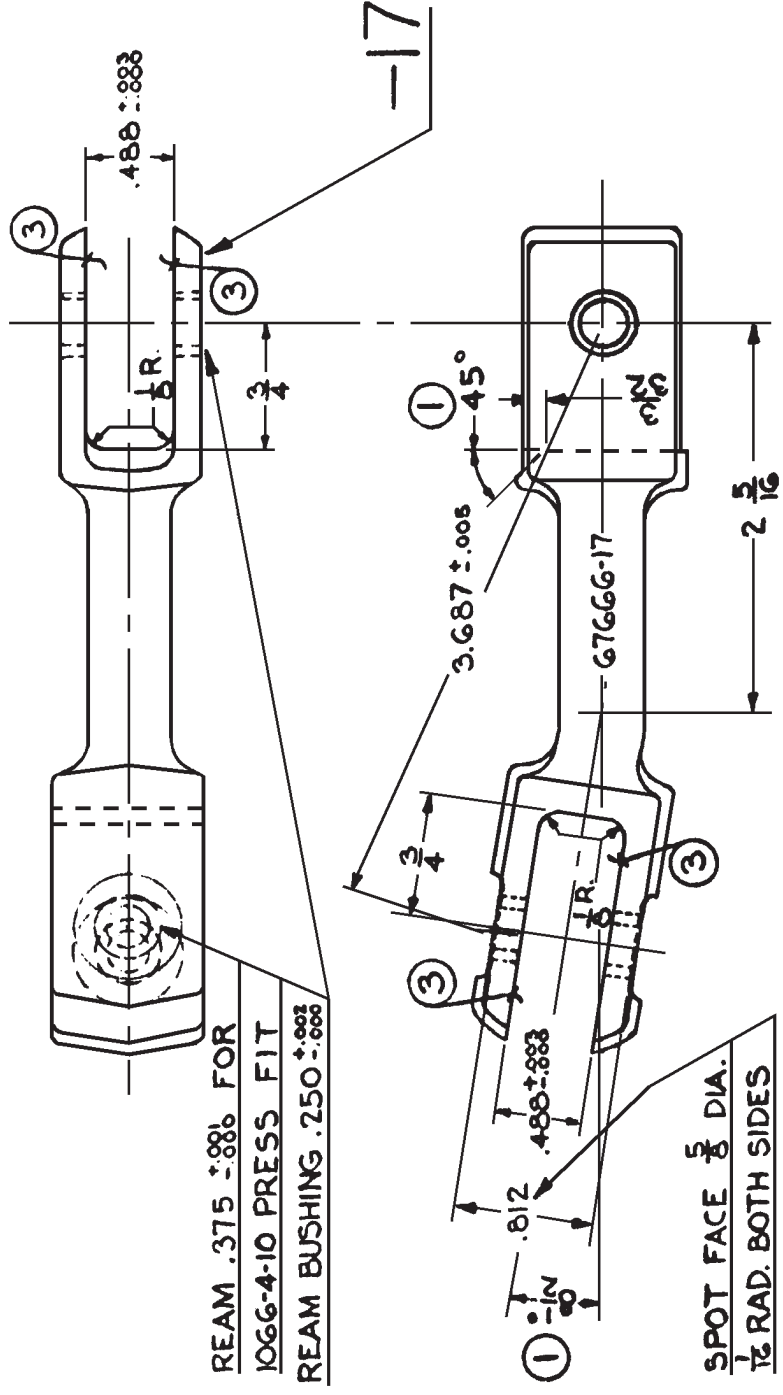


.2

1	67666-18	67666-17F	LINK	FORGING	ALUM. ALLOY	4647 SR-53	55,000	---	---
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.S. #/SQ. IN.	FINISH EST. WT. ACT. WT.
DESIGNED FOR			DIMENSIONS ARE IN INCHES. LIMITS ±		DECIMALS UNLESS OTHERWISE NOTED.				
N3N-3			JOBSON 10-25-39		LINK				
ALTERNATIONS			CHECKED		SURFACE CONTROLS - FORGING				
① WAS 14 1/2° ANGLE			SUPERVISOR		SUPERSEDED BY				
② 3-27-40			STRUCTURE		SCALE				
LONDON			CHIEF DRAFT.		FULL SIZE				
			PROJ. ENG.		REF. DRAWING				
			ASST. CHIEF. ENG.		67666-17F				
			APPROVAL		NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA				

67666-18

Ord. 1/24/39.



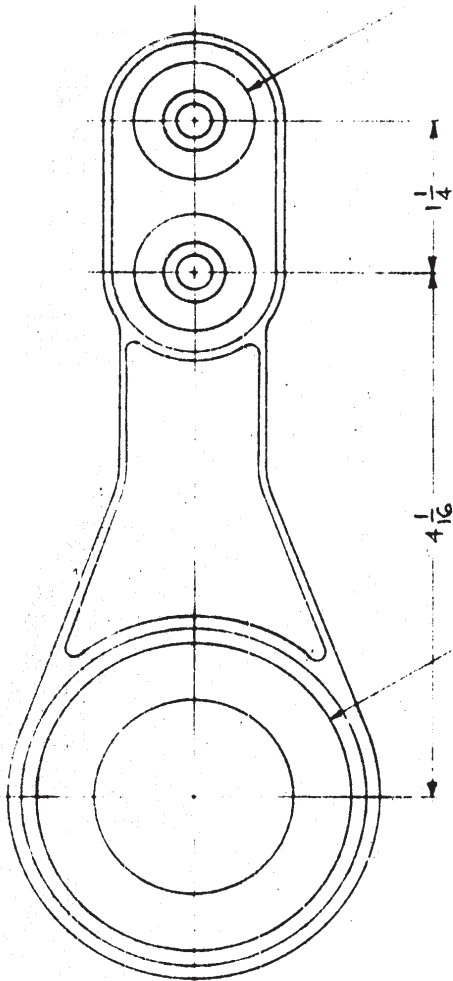
REAM .375 $\pm .008$ FOR
 1066-4-10 PRESS FIT
 REAM BUSHING .750 $\pm .000$

SPOT FACE $\frac{5}{16}$ DIA.
 $\frac{1}{16}$ RAD. BOTH SIDES

4	67666-18	1066-4-10 BUSHING	ST'D.									
1	67666-18	67666-17 LINK	67666-17F									
1	67523-2	67666-18 LINK ASSEMBLY										
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FORM	DOT. WT.	ACT. WT.		
N3N-3							1/16 IN.					
DESIGNED FOR				DIMENSIONS ARE IN INCHES. LIMITS $\pm 1/64$ DECIMALS $\pm .010$. ANGLES $\pm 1/4^\circ$, UNLESS OTHERWISE NOTED.				LINK				
		DRAWN TRACED		JOBSON 10-25-39								
		CHECKED		1 10-24-39								
		SUPERVISOR		J. J. SHELTON 11-7-39								
		STRUCTURE		J. J. SHELTON 11-7-39								
		CHIEF DRAFT.		J. J. SHELTON 11-7-39								
		PROJ. ENG.		J. J. SHELTON 11-7-39								
		ASST. CHIEF. ENG.		J. J. SHELTON 11-7-39								
		APPROVAL		J. J. SHELTON 11-7-39								
ALTERNATIONS												
		① 3-27-40		8 1/2" ANGLE WAS 14 1/2"								
				3 2 7 8 4 9 6								
SURFACE CONTROLS - ASSEMBLY												
SUPERSEDED BY										SUPERSEDES		
SCALE										FULL SIZE		
REF. DRAWING										67666-18		
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA												

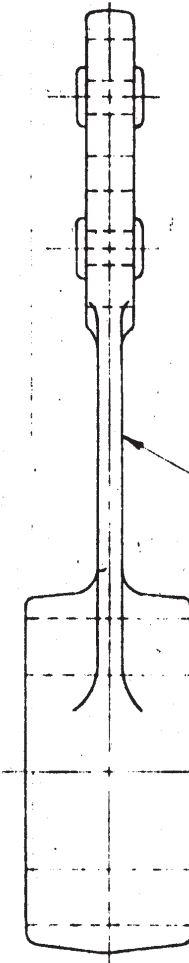
67666-19

Encl. 1/21/58



REAM 2.375 ± .0008
FOR G7914-165 PRESS FIT

REAM .8339 ± .0008 FOR
AN200K-4 PRESS FIT



-20

NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	FINISH	EST. WT.	ACT. WT.
2	G7666-19	AN200K-4	BEARING	STD.						
1	G7666-19	G7914-165	BEARING							
1	G7666-19	G7666-20	BELL CRANK	G7666-20F						
1	47258-1	G7666-19	BELL CRANK ASSEM							.5

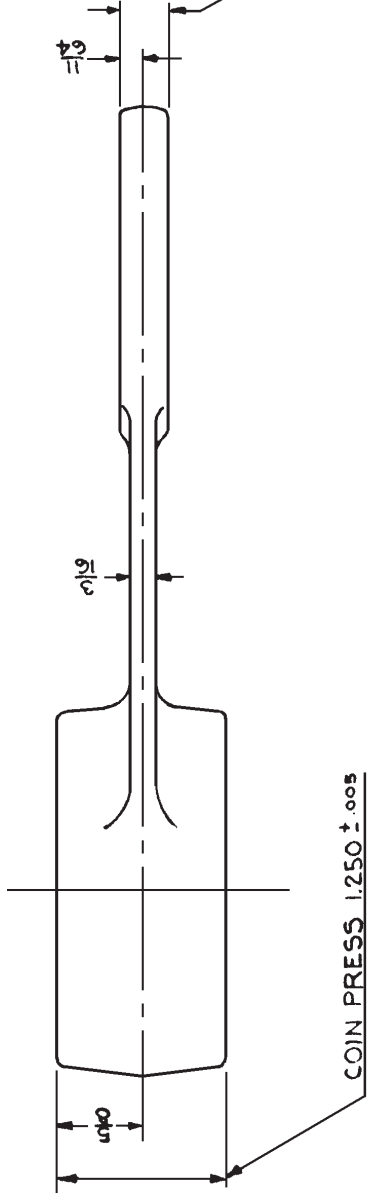
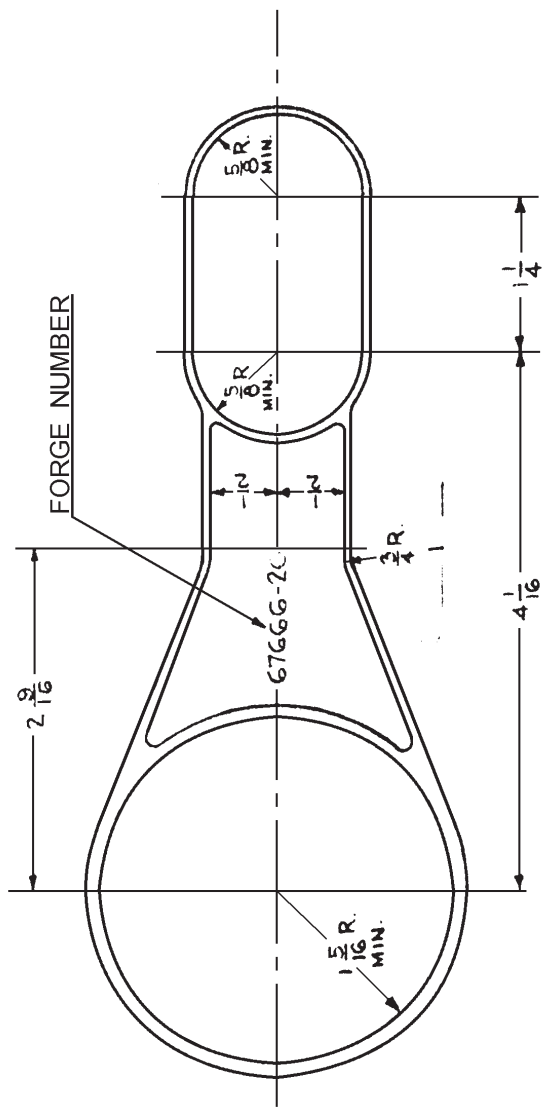
DESIGNED FOR		DIMENSIONS ARE IN INCHES. LIMITS ± 1/4 DECIMALS ± .010 ANGLES ± 1/2 UNLESS OTHERWISE SPECIFIED	
CHECKED	JOHNSON 10-27-59	DATE	11-8-59
SUPERVISOR		NO.	6766-19
STRUCTURE		DATE	11/15/59
CHIEF DRAFT.			
ASST. DRA.			
LEFT. CITY, ENG.			
APPROVAL			

BELL CRANK-FUSELAGE FR. 12	
ELEVATOR CONTROL - ASSEMBLY	
SCALE	SUPERSEDED BY
FULL SIZE	6766
NAVY YARD	

67666-20F

67666-20F

DRAFT # 370
 DATE 1-16-39



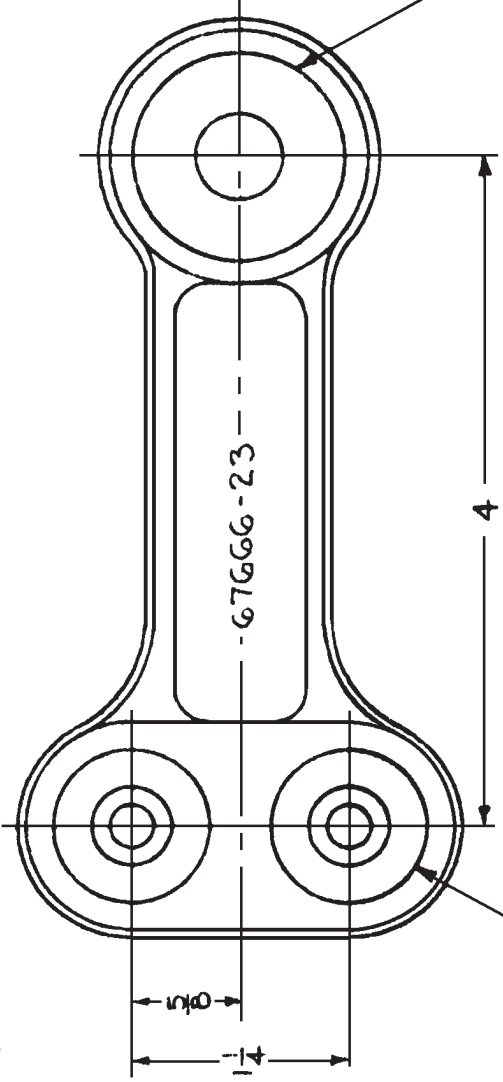
COIN PRESS .343 ± .005

COIN PRESS 1.250 ± .005

NO. REQ.	1	67666-20	67666-20F	BELL CRANK	FORGING	ALUM. ALLOY	6061	SR-53	55,000	FINISH EST. WT. ACT. WT.	
ASSEM.	NON-3	DESIGNED FOR		NAME	STOCK	MATERIAL SPEC.	HT. T. / SQ. IN.	UT. IN.	DECIMALS	ANGLES	UNLESS OTHERWISE NOTED.
DIMENSIONS ARE IN INCHES. LIMITS ±		JOBSON 10-27-39		DRAWN TRACED							
ALTERNATIONS		CHECKED		SUPERVISOR							
		STRUCTURE		CHIEF DRAFT.							
		PROD. ENG.		ASST. CHIEF. ENG.							
		APPROVAL									
		SUPERSEDED BY		SCALE		FULL SIZE		NAVY YARD		PHILADELPHIA	
		BELL CRANK-FUSELAGE FR. # 12		ELEVATOR CONTROL - FORGING		67666-20F		NAVAL AIRCRAFT FACTORY			

67666-22

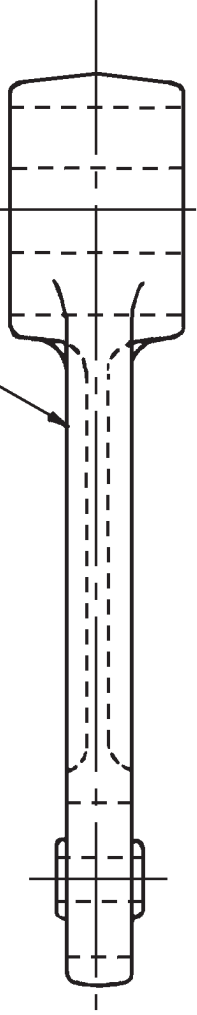
A.D. 1/21/39



REAM 1.250 ± .008
FOR 67914-164 PRESS FIT

REAM .8999 ± .0005 FOR
AN200KS-4 PRESS FIT

-23



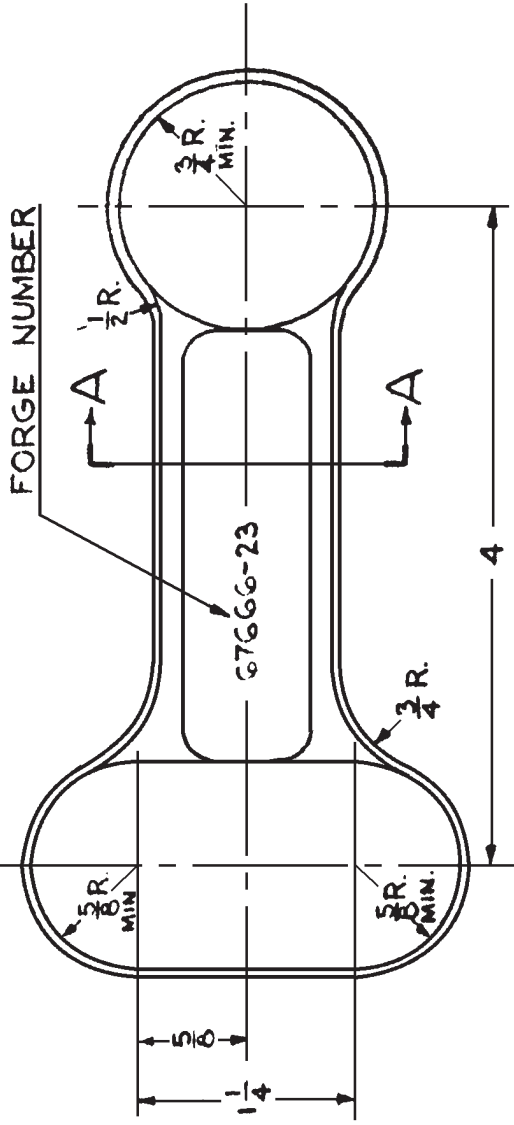
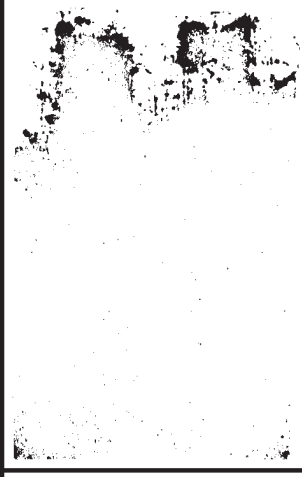
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
2	67666-22	AN200KS-4	BEARING	ST'D.	---	---	---	---	---	---	---
1	67666-22	67914-164	BEARING	---	---	---	---	---	---	---	---
1	67666-22	67666-23	IDLER	67666-23F	---	---	---	---	PF+41	---	---
1	47259-1	67666-22	IDLER ASSEMBLY	---	---	---	---	---	---	---	---

W
N3N-3 DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/8°, UNLESS OTHERWISE NOTED.

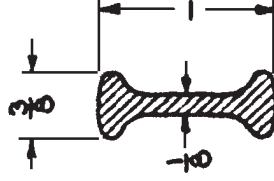
DRAWN		JOBSON	
TRACED		10/26/39	
CHECKED		11/4/39	
SUPERVISOR		11-1-39	
STRUCTURE		1-1-39	
CHIEF DRAFT.		1-1-39	
PROJ. ENG.		1-1-39	
ASST. CHF. ENG.		1-1-39	
APPROVAL		1-1-39	
ALTERNATIONS			
IDLER			
ELEVATOR CONTROLS - ASSEMBLY			
SUPERSEDED BY		SCALE	
---		---	
FULL SIZE		REF. DRAWING	
---		67666-22	
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA			

67666-23F

at 11/21/39.



COIN PRESS .343 ± .008
TO LINE SHOWN



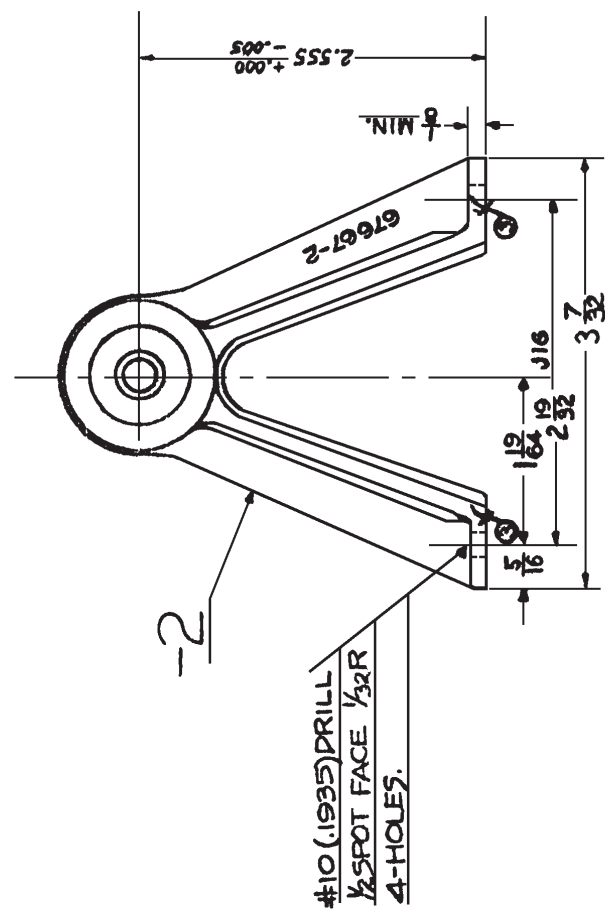
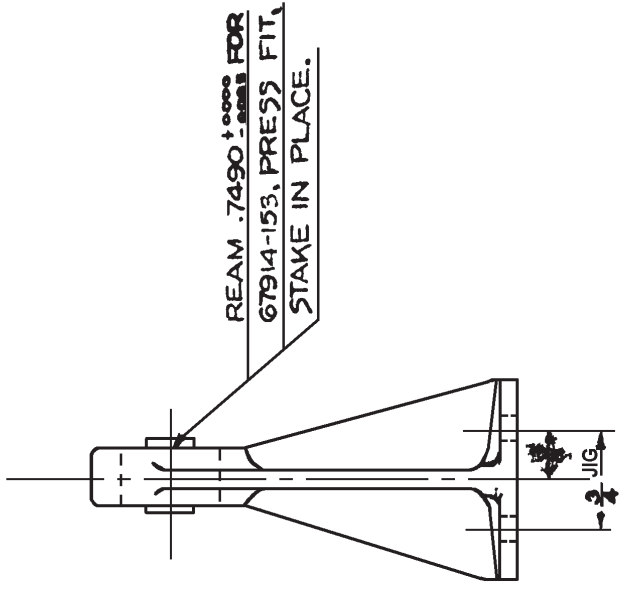
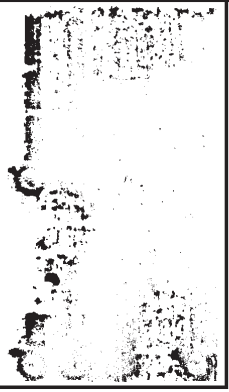
SECTION AA

NO. REQ.	ASSEM.	67666-22	67666-23F	IDLER	FORGING	ALUM. ALLOY	6A-7	SR-53	55,000		
DESIGNED FOR		N3N-3		NAME	STOCK	MATERIAL	SPEC.	HT. T.	1/2 SQ. IN.	FINISH	EST. WT. ACT. WT.
DIMENSIONS ARE IN INCHES. LIMITS ± --- DECIMALS UNLESS OTHERWISE NOTED.											
DRAWN TRACED		JOBSON		10-25-39							
CHECKED				11-8-39							
SUPERVISOR											
STRUCTURE											
CHIEF DRAFT.											
PROG. ENG.											
ASST. CHIEF. ENG.											
APPROVAL											
ALTERNATIONS											
<p style="text-align: center;">SUPERSEDED BY</p> <p style="text-align: center;">SCALE</p> <p style="text-align: center;">FULL SIZE</p> <p style="text-align: center;">REF. DRAWING</p> <p style="text-align: center;">SUPERSEDES</p> <p style="text-align: center;">67666-23F</p> <p style="text-align: center;">NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA</p>											

IDLER
ELEVATOR CONTROLS - FORGING

67667-1

Rev. 12/12/39



NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U. S. FINISH	EST. WT. ACT. WT.
1	67667-1	67914-153	BEARING						
1	67667-1	67667-2	BRACKET						
2	67667-4	67667-1	BRACKET ON HINGE						
N3N-3 --DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ±									
DRAWN									
TRACED									
CHECKED									
SUPERVISOR									
STRUCTURE									
CHIEF DRAFT.									
PROJ. ENG.									
ASST. OFF. ENG.									
APPROVAL									
ALTERNATIONS									
FIN HINGE ASSEMBLY									
SUPERSEDED BY									
SCALE									
FULL SIZE									
REF. DRAWING NO.									
67667-1									
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA									

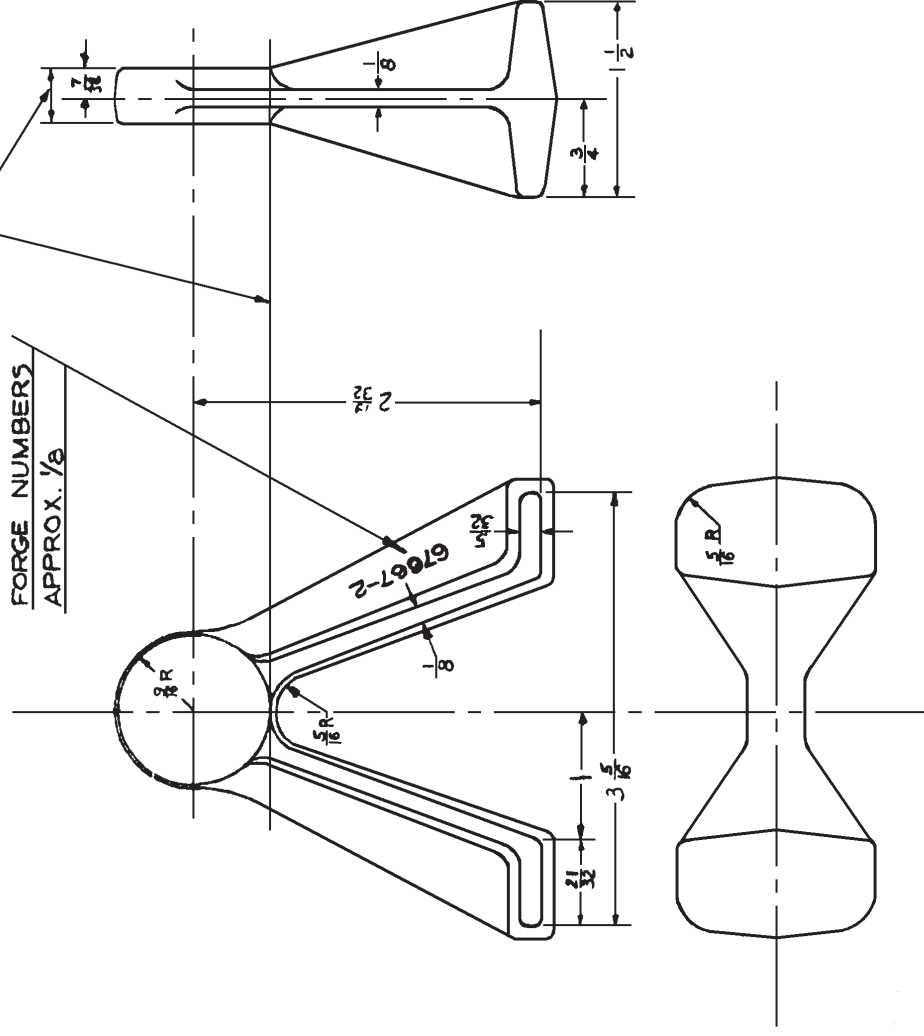
W

67667-2F

67667-2F

COIN PRESS .437 ± .005
TO LINE SHOWN

FORGE NUMBERS
APPROX. 1/8



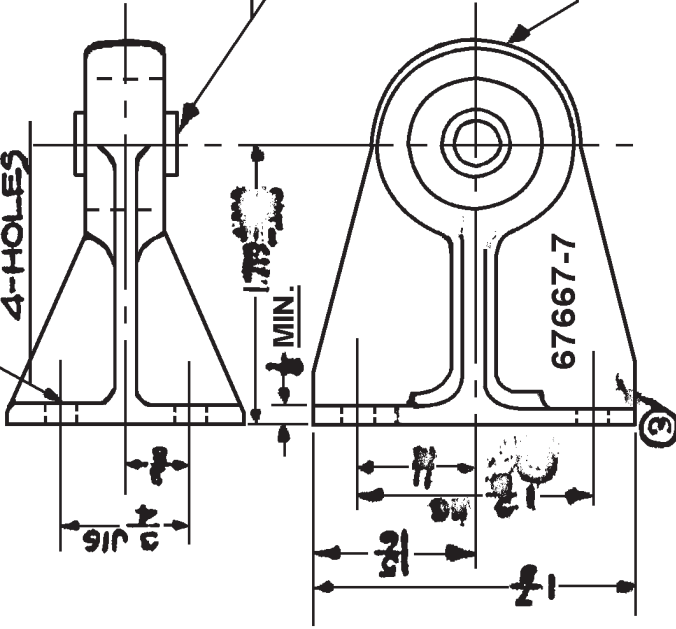
NO. REQ.	67667-2	67667-2F	BRACKET	FORGING	ALUM. 4647 SR53	55000	FINISH	EST. WT.	ACT. WT.
ASSEM.				STOCK	MATERIAL SPEC.	HT. T.	UTS.		
DESIGNED FOR			DIMENSIONS ARE IN INCHES. LIMITS ± UNLESS OTHERWISE NOTED.						
N3N-3			WOOD						
DRAWN			CHECKED						
SUPERVISOR			STRUCTURE						
CHIEF DRAFT.			PROJ. ENG.						
ASST. CHIEF ENG.			APPROVAL						
ALTERNATIONS			SUPERSEDED BY						
			SCALE						
			FULL SIZE						
			REF. DRAWING NO.						
			NAVAL AIRCRAFT FACTORY PHILADELPHIA						
			67667-2						
			FORGING						

67667-3

62. 12/12/32

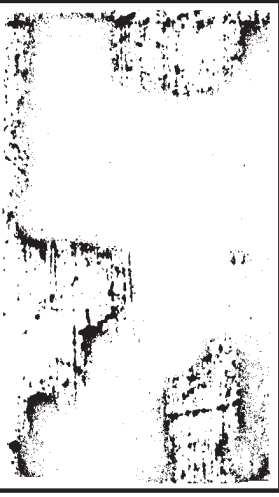
① #10 (.1935) DRILL
9/16 SPOT FACE 1/32 R

4-HOLES

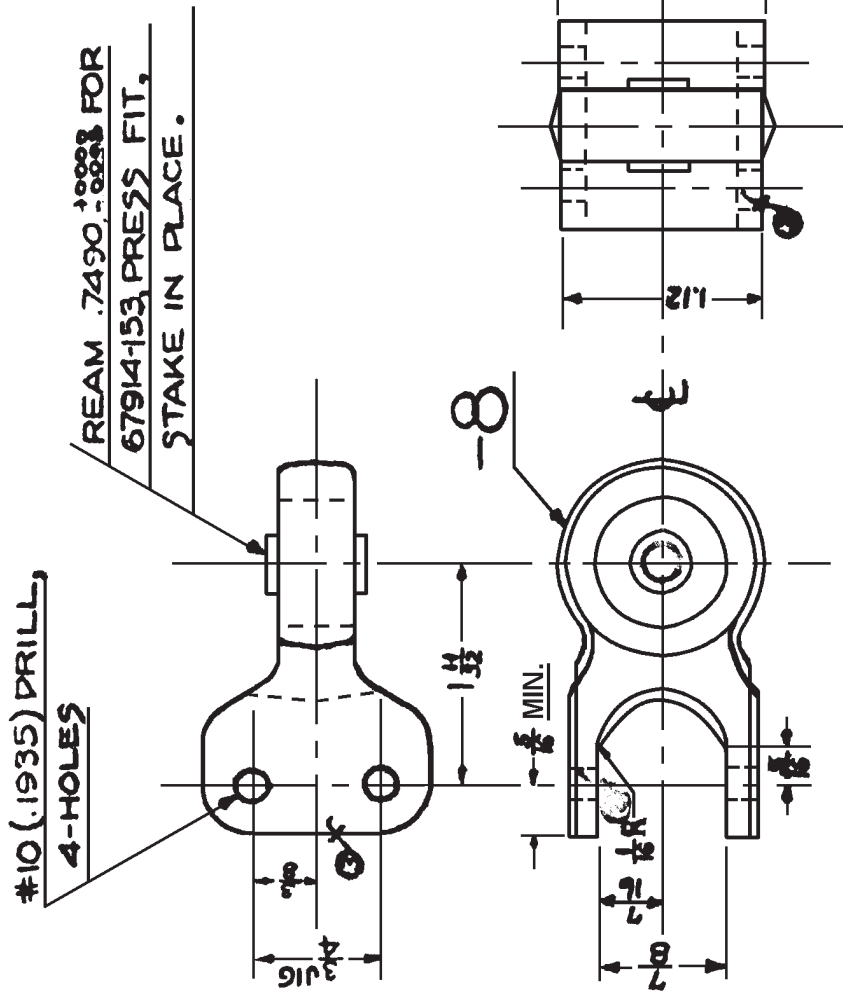


NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
1											
1											
1											
N3N-3			DIMENSIONS ARE IN INCHES. LIMITS ±			DECIMALS ±.010. ANGLES ±1/2°, UNLESS OTHERWISE NOTED.					
DESIGNED FOR			DRAWN			BRACKET					
ALTERATIONS			TRACED			STAB. HINGE - INBOARD ASSEMBLY					
			CHECKED			SUPERSEDED BY					
			SUPERVISOR			SCALE					
			STRUCTURE			FULL SIZE					
			CHIEF DRAFT.			REF. DRAWING NO.					
			PROJ. ENG.			67667-3					
			ASST. CHIEF. ENG.			NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA					
			APPROVAL								

67667-4



Sub. 12/12/32



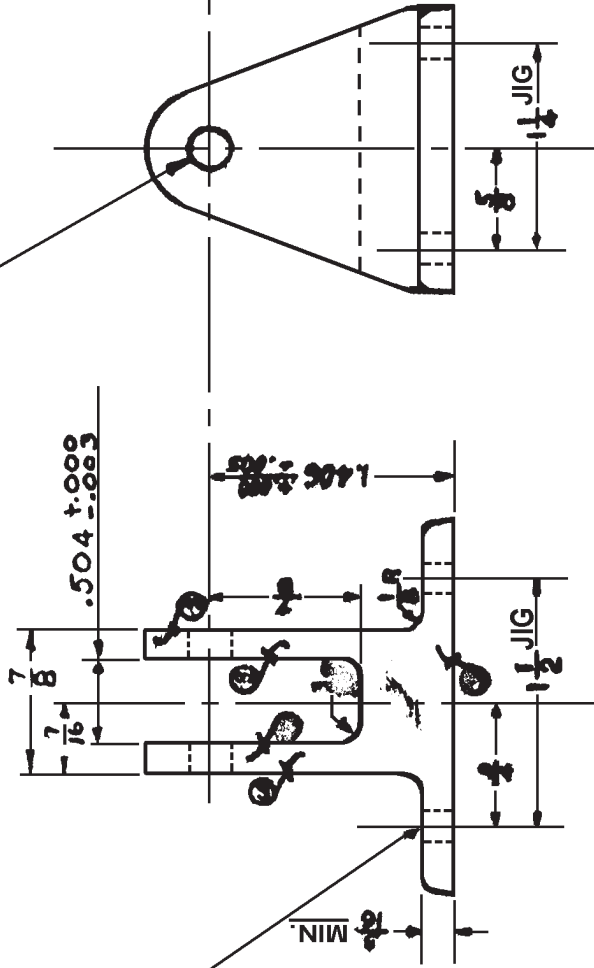
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U. T. S.	FINISH	EST. WT.	ACT. WT.
1	67667-4	67914-153	BEARING	(EQUIV. TO 67915)							
1	67667-4	67667-4	BRACKET								
1			BRACKET STAB								
N3N-3			← DESIGNED FOR DIMENSIONS ARE IN INCHES. LIMITS ±								
			DRAWN								
			TRACED								
			CHECKED								
			SUPERVISOR								
			STRUCTURE								
			CHIEF DRAFT.								
			PROJ. ENG.								
			ASST. CHT. ENG.								
			APPROVAL								
			ALTERATIONS								
			SUPERSEDED BY								
			SCALE								
			FULL SIZE								
			REF. DRAWING NO.								
			67667-4								
			SUPERSEDES								
			BRACKET - STABILIZER								
			HINGE OUTBOARD ASSEMBLY								
			NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA								

67667-5

Order 12/12/59

#10 (.1935) DRILL, 1/2 SPOT
FACE 1/32 R, 4-HOLES.

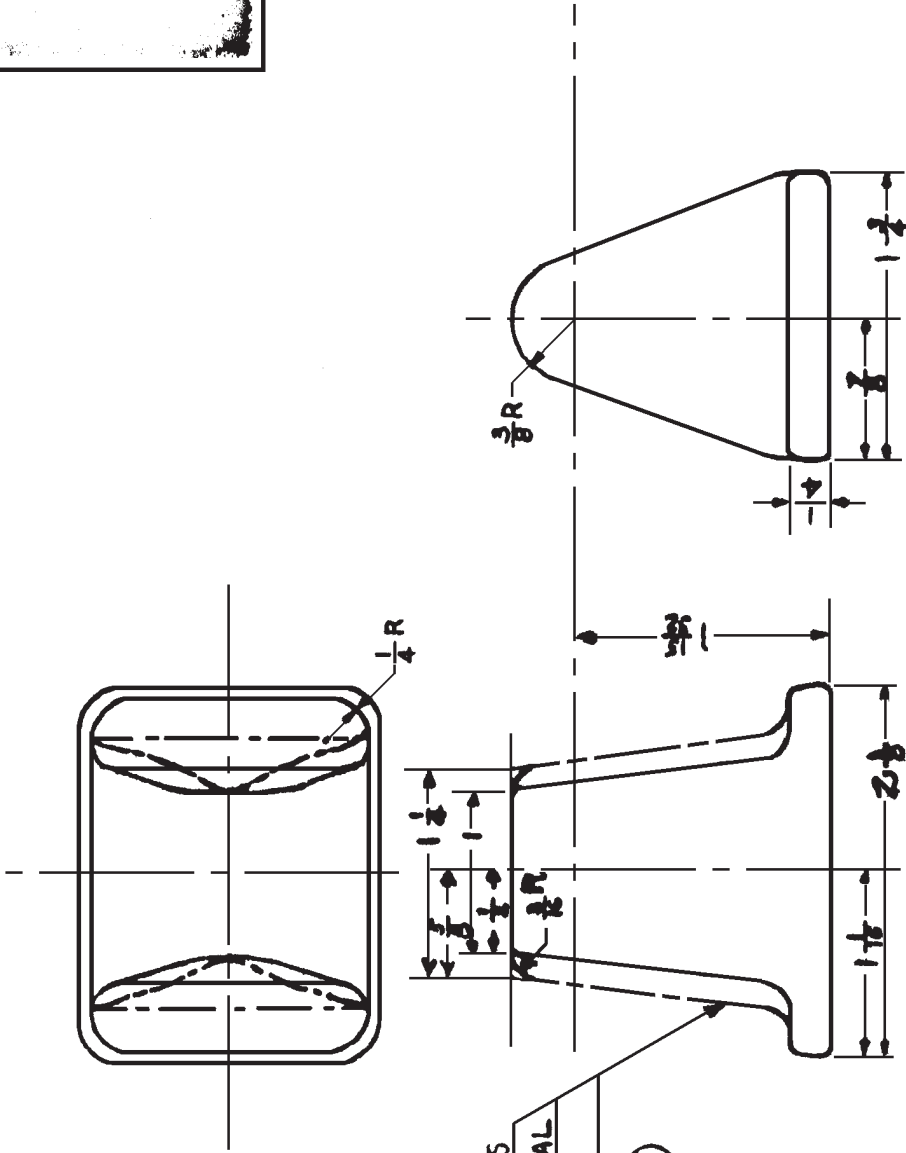
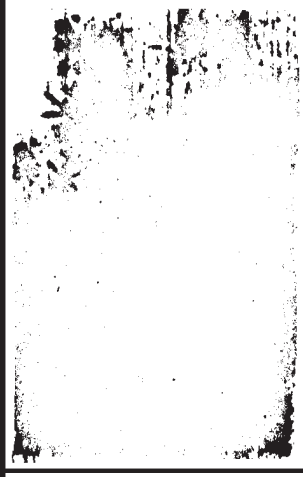
REAM .250 ±.003



①	NO. REQ.	ASSEM.	DESIGNED FOR	NAME	STOCK	MATERIAL	SPEC.	HT. T.	U. S. FINISH	EST. WT.	ACT. WT.
1	66644-102	67667-5	FITTING	67667-5F							
N3N-3			←-DESIGNED FOR								
			ALTERATIONS								
			26 2625-102 012728								
			10-4-40								
			10-4-40								
			APPROVAL								
			ASST. CHIEF. ENG.								
			PROJ. ENG.								
			CHIEF DRAFT.								
			STRUCTURE								
			SUPERVISOR								
			CHECKED								
			DRAWN TRACED								
DIMENSIONS ARE IN INCHES. LIMITS ± 1/4 DECIMALS ± .010. ANGLES ± 1/2°, UNLESS OTHERWISE NOTED.											
FITTING - ELEVATOR											
HINGE INBOARD											
DETAIL											
SUPERSEDED BY											
SCALE											
FULL SIZE											
REF. DRAWING NO.											
67667-5											
SUPERSEDES											
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA											

67667-5F

Ord. 12/12/39.



DOT & DASH LINES
INDICATE OPTIONAL
FORGING.

①

1	67667-5F	67667-5F	FITTING	FORGING	SR53	SS000		
NO. REQ.	ASSEM.	PART NO.	NAME	STOCK	MATERIAL	HT. T.	UT. 15.	FINISH
N3N-3			FITTING				1/16 SQ. IN.	
DIMENSIONS ARE IN INCHES. LIMITS ± DECIMALS ± .010. ANGLES ± 1/2° UNLESS OTHERWISE NOTED.								
DESIGNED FOR			DRAWN TRACED					
ADDED OPTIONAL			CHECKED					
TYPE OF FORGING			SUPERVISOR					
ALTERATIONS			STRUCTURE					
① 9-4-41			CHIEF DRAFT.					
			PROJ. ENG.					
			ASST. CHF. ENG.					
			APPROVAL					
			SUPERSEDED BY					
			SCALE					
			FULL SIZE					
			REF. DRAWING NO.					
			67667-5F					
			SUPERSEDES					
			NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA					

FITTING - ELEVATOR
HINGE

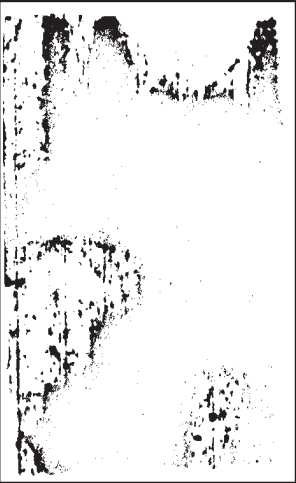
SUPERSEDES

67667-5F

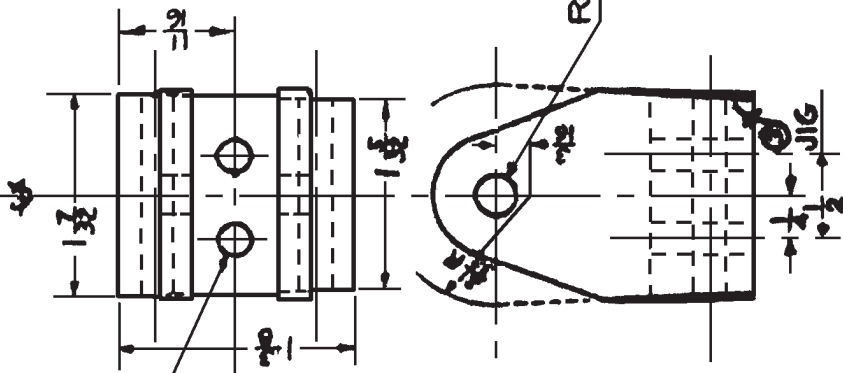
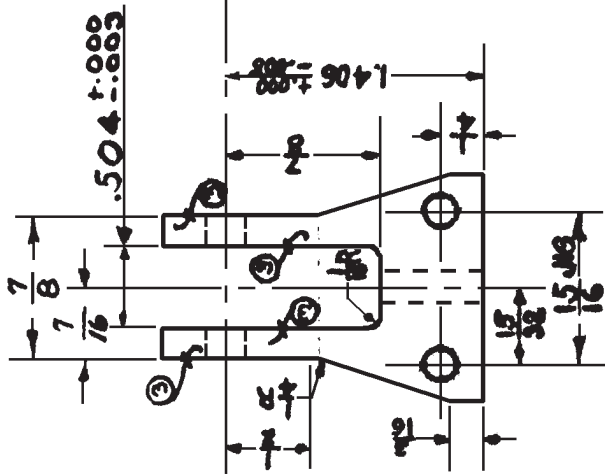
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA

67667-6

67667-6 12/12/39



#10 (.1935) DRILL
4-HOLES.



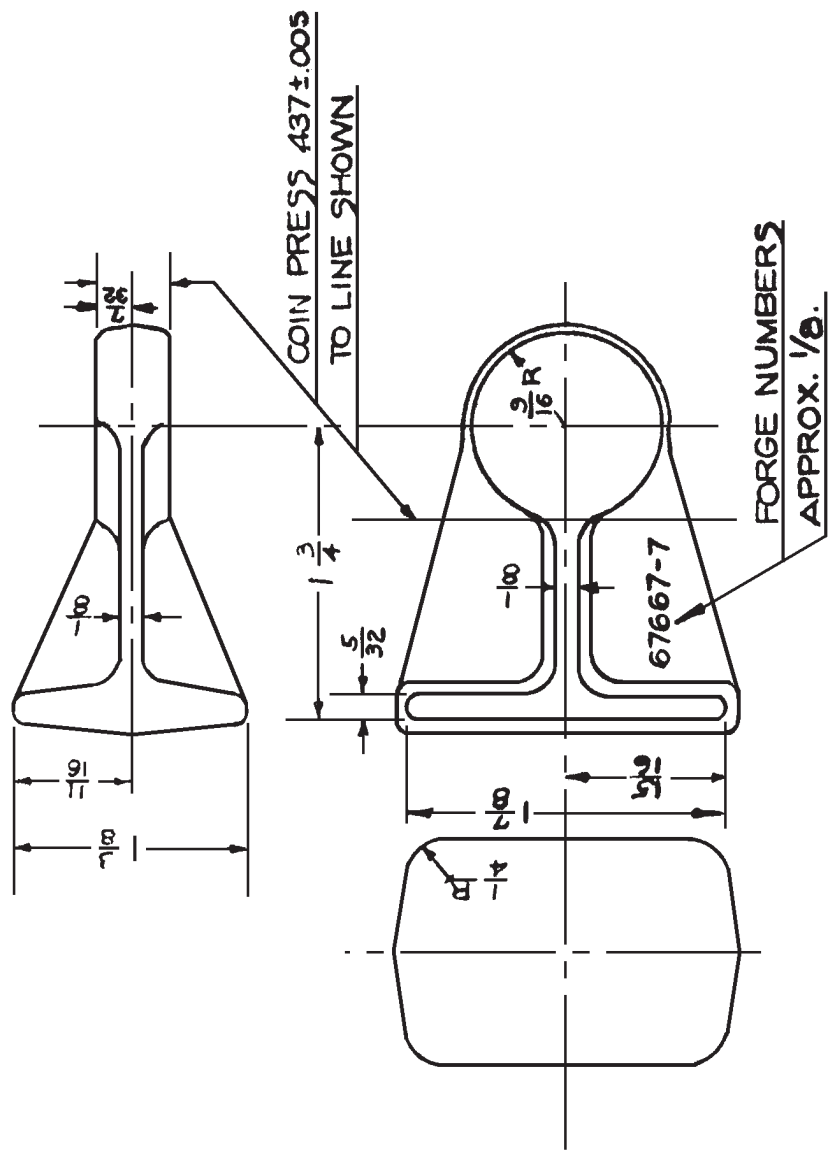
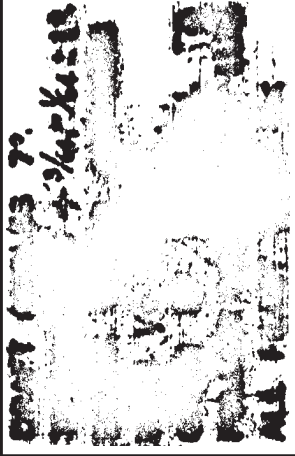
① W

NO. REQ.	66644-102	67667-6	FITTING	STOCK	67667-5F	MATERIAL	SPEC.	HT. T.	U.T.S.	FINISH	EST. WT.	ACT. WT.
N3N-3	ASSEM.	PART NO.	NAME						1/16 SQ. IN.			.10
DESIGNED FOR			DIMENSIONS ARE IN INCHES. LIMITS ± 1/64 DECIMALS ± .010. ANGLES ± 1/2° UNLESS OTHERWISE NOTED.									
ALTERATIONS			DRAWN TRACED									
ASSEMBLY			CHECKED									
SUPERVISOR			SUPERVISOR									
STRUCTURE			STRUCTURE									
CHIEF DRAFT.			CHIEF DRAFT.									
PROJ. ENG.			PROJ. ENG.									
ASST. CHIEF. ENG.			ASST. CHIEF. ENG.									
APPROVAL			APPROVAL									
SUPERSEDED BY			SUPERSEDES									
SCALE			FULL SIZE									
REF. DRAWING NO.			67667-6									
NAVY YARD			NAVAL AIRCRAFT FACTORY PHILADELPHIA									

FITTING - ELEVATOR
HINGE OUTBOARD
DETAIL

67667-7F

Order 12/12/39



NO. REQ.	ASSEM.	PART NO.	DESIGNED FOR	NAME	FORGING	STOCK	ALUM. ALLOY	46A7	SR53	53000	U.S. FINISH	EST. WT.	ACT. WT.
1	67667-7	67667-7F	FITTING	FITTING	WOOD	10/10/39	MATERIAL	SPEC.	HT. T.	1/8 SQ. IN.			
DIMENSIONS ARE IN INCHES. LIMITS													
DRAWN TRACED													
CHECKED													
SUPERVISOR													
STRUCTURE													
CHIEF DRAFT.													
PROJ. ENG.													
ASST. CHF. ENG.													
APPROVAL													
ALTERATIONS													
FITTING - STABILIZER													
HINGE INBOARD FORGING													
SUPERSEDED BY													
SCALE													
FULL SIZE													
REF. DRAWING													
67667-7F													
SUPERSEDES 67557A1													
NAVY YARD NAVAL AIRCRAFT FACTORY PHILADELPHIA													