

Statement of Work CEMIRT MAAS Parts and Equipment

1. PURPOSE: The contractor shall furnish all required parts, equipment, material, and labor to provide the following items in accordance with (IAW) all applicable codes, specifications, and industry/federal standards to CEMIRT at Tyndall AFB, Florida.

2. SCOPE:

1. **Fairlead Beam Assemblies (Heavy Weight)** – P/N: 52-W-2295-201 – 24 Each:
 - a. See Attachment 1.
 - b. Painted semi-gloss green (MIL-PFR-852285 Rev E Type II Class H, Color Code 24052 per MIL-STD-3035 attached.)

3. First Article Testing (FAT):

1. The purpose of this section is to detail the work required to fulfill the First Article Testing component of this contract.
 - a. FAT shall be required of any contractor who has not undergone, completed and received FAT approval for the item purchased under this contract, and has produced it for the USAF within the last 60 months.
2. This is an Air Force designated Critical Safety Item (CSI). All requests for waivers or deviations must be forwarded to the contracting officer for review and approval.
3. FAT shall be coordinated through the Air Force AAS Engineer, Mr. Christopher Peisher. Contact information is listed below:
 - a. AAS Engineer Point of Contact
Christopher S. Peisher
Aircraft Arresting Systems Engineer
WRLCMC/WNZEC
235 Byron St., Suite 19A
Robins AFB GA 31098-1813
Christopher.peisher@robins.af.mil
478-478-222-1371
4. The Delivery Period shall be adjusted if a FAT is required. The timeline to conduct the FAT shall be as follows:
 - a. Submit First Article to CEMIRT: 180 days
Government Review: 30 days
Delivery Period for Remaining Balance: 150 days
 - b. The contractor shall have a total of 180 days to produce their first article for government testing. Should the contractor produce this article prior to the completion of this 180 day period, the contractor will have the remaining time to correct any deficiencies noted during the FAT. For example, if the first article is produced within 120 days, the contractor will have 60 days to correct any deficiencies identified and return the item for additional testing. This total period shall not exceed 180 days.
 - i. The first article shall be considered as having been provided to the government for FAT on the date that it arrives at Tyndall CEMIRT for testing. Additionally, the date that notification of First Article deficiencies is provided to the contractor shall be considered the date that the contractors period for FAT submittal recommences.

c. Any return of a First Article for correction of deficiencies shall be at the contractor's expense.

5. First Article Testing shall be conducted as follows:

- a. Testing will be in accordance with applicable drawings, specifications and/or engineering instructions. The First Article offered shall be manufactured at the facilities in which production quantities are procured and produced under this contract.
- b. Third Party Verification – The contractor shall be responsible for providing third party lab verification of all characteristics of the item to include all dimensions, materials, welds, hardware and components. These shall be verified by visual inspection, inspection of material certifications, inspection of welder's certifications and inspection of shipment invoices. Documentation of successful third party verification shall be included with the First Article.
- c. Form, Fit and Function Check – The contractor shall provide the First Article Tyndall CEMIRT for inspection. When submitting the First Article for government testing, a copy of the contract and all applicable drawings, specifications, engineering instructions, certifications and inspection sheets (to include all applicable data identified during third party verification) shall be provided. Additionally, First Article packaging must be clearly marked as "FIRST ARTICLE TEST EXHIBIT." Tyndall CEMIRT shall perform a form, fit and function check verifying all operational aspects of the first article.

6. Approved and conditionally approved First Articles shall be retained by the government for use. Retention of this item will qualify as the first production item.

7. Deliver Government First Article to:

- a. CEMIRT
Attn: Bruce Goodwill
100 Mississippi Road
Tyndall AFB, FL 32403

Note: The contracting officer can provide additional engineering drawings, specifications and instructions as needed upon request.

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PROGRAM OFFICE ROBINS AFB, GA 31096

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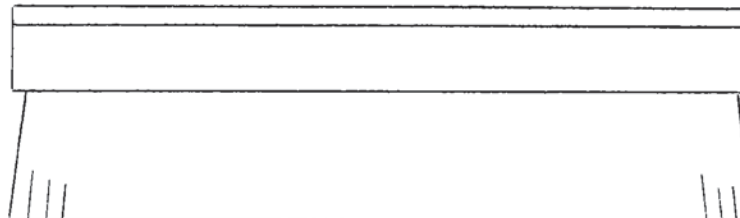
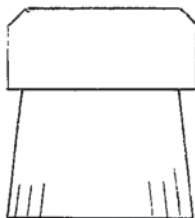
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① *6. IDENTIFICATION OF SUGGESTED SOURCE(S) OF
SUPPLY HEREON IS NOT TO BE CONSTRUED
AS A GUARANTEE OF PRESENT OR CONTINUED
AVAILABILITY AS A SOURCE OF SUPPLY
FOR THIS ITEM(S).*

NOTES:

1. BREAK ALL SHARP EDGES.
2. MATERIAL IS NOMINAL SIZE WITHOUT
MANUFACTURING ALLOWANCE.
3. FINISH PER.
4. MAKE FROM DECK SCRUBBING
BRUSH $1\frac{3}{16} \times 2\frac{7}{8} \times 12$ BLACK
POLYETHLENE BRISTLE, 2"
TRIM. BEACON BRUSH CO.,
PHILA., PA., OR EQUIV.
(FED. SUPPLY CODE NO. 85362)

① 5.



CONTRACT NO. F41608-80-
G-0037-0029

SPECIFICATION CONTROL DRAWING

52-D-109	52-B-872-1	BRUSH	SEE NOTE 4	2.7 #				
NEXT ASSEMBLY	QUAN. REQ.	PART NUMBER	DESCRIPTION	STOCK SIZE (SEE NOTE 2)	MATERIAL	MAT'L SPEC.	UNIT WT.	
DRAWN		CINICOVE	DATE	5 JULY 62				
CHECKED		J.H.B	DATE	17-AUG-62				
ANALYZED			DATE					
DESIGN FOR		BAK-12	DATE					
PROJECT		NSA/Trans	DATE	17 AUG 62				
APPROVED			DATE	17-8-62				
APPROVED			DATE					
TOLERANCE		FRACTIONS DECIMALS ANGLES ± .x .04 ± 1/2° xx .010 xxx .004						
UNLESS OTHERWISE NOTED								
SCALE		NONE		B		DRAWING NO. 52-B-872		REV. A

BLISS RESEARCH

E. W. BLISS COMPANY • SWARTHMORE, PENNSYLVANIA
A GULF + WESTERN COMPANY

TITLE

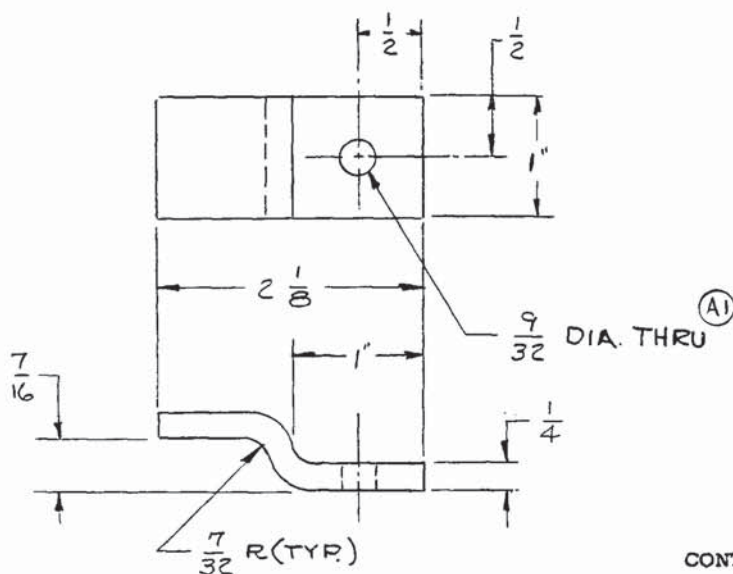
BRUSH

NOTE 5 WAS - MARKING #
IDENTIFICATION PER MIL-STD-130.
ADDED NOTE 6 AND
SPEC. CONTROL DWG.

9/22/81

WRS

REVISIONS



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CONTRACT NO. F33657-67-C-1111

CODE IDENT. 21439

NOTES:

1. BREAK ALL SHARP EDGES.
2. MATERIAL IS NOMINAL SIZE WITHOUT MANUFACTURING ALLOWANCE.
3. FINISH PER.

- (B1) 4.
5. MARKING & IDENTIFICATION PER MIL-STD-130
- (A2) 6. WHEN THIS PART IS USED IN THE MANUFACTURE OF BAK 12 ARRESTING ENGINE, FIN. MPR-1201-29 DOES NOT APPLY
- (A2) 7. FOR BAK-12 ARRESTING GEAR ONLY, FINISH SHALL BE:-
 - (a) CLEAN IN ACCORDANCE WITH MIL-C-490 GRADE II TYPE I OR GRADE I TYPE II
 - (b) APPLY ONE (1) COAT PRIMER TT-P-636
 - (c) APPLY TWO (2) COATS GLOSS ENAMEL TT-E-489 (YELLOW COLOR NO. 13538 OF STANDARD 595)
 - (d) APPLY & PROCESS PER MIL-T-704

C	(1) ADDED GRADE I TYPE II TO NOTE 10	7/4/64		W.R.G.
B	(1) REMOVED NOTE 4	3/26/63		D.T.R.
A	(1) 9/32 DIA. WAS .281 ±.006 DIA. (2) ADDED NOTES 6 & 7	10/11/62		W. WILEY
SYM.	DESCRIPTION	DATE	BY	APP'D.
REVISIONS				

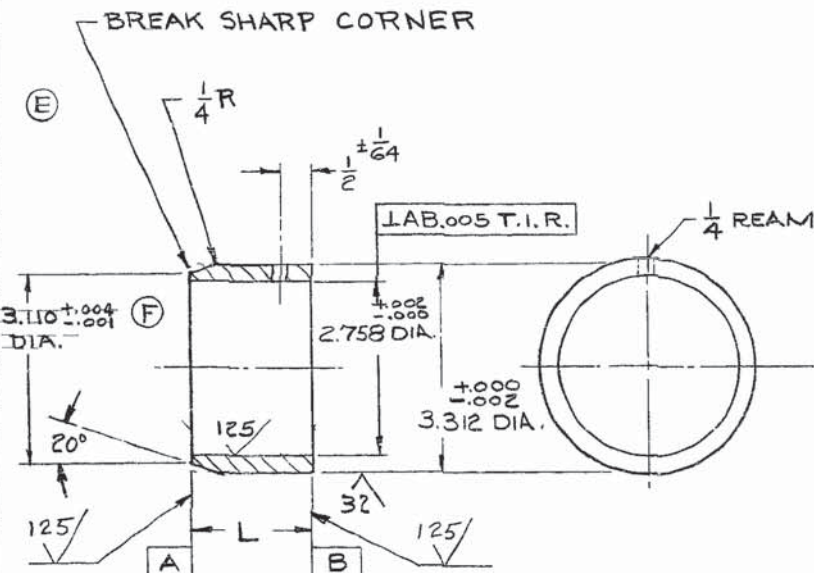
52-D-109	52-B-873-1	RETAINER BRUSH		STOCK SIZE (SEE NOTE 2)	STYL B	MIL-S-7152	ANNEAL & GOLD FIN.	UNIT WT.
NEXT ASSEMBLY	QUAN. REQ.	PART NUMBER	DESCRIPTION					
CONFIDENTIAL This drawing and all information herein contained is the exclusive proprietary property of the E. W. Bliss Company and is to be retained in confidence, is not to be duplicated, is not to be used for any other purpose than for which disclosed and is to be returned to Bliss on demand.			DRAWN	C. CINICORE	DATE	7/5/62	BLISS RESEARCH E. W. BLISS COMPANY • SWARTHMORE, PENNSYLVANIA A GULF & WESTERN COMPANY	
			CHECKED	J. H. B.	DATE	3/17/62		
			ANALYZED					
			DESIGN FOR	BAK-12				
			PROJECT					
			APPROVED					
			APPROVED					
TOLERANCE FRACTIONS DECIMALS ANGLES ± .x .04 ±1/2" .xx .010 .xxx .004			TITLE RETAINER, BRUSH					
UNLESS OTHERWISE NOTED			SCALE		FULL	B	DRAWING NO.	52-B-873
							REV.	C

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DASH NO.	"L" ±.005	FINISH
-1	1.915	SEE NOTES 5&6
-2	2.305	SEE NOTES 5&6

NOTES:

1. BREAK ALL SHARP EDGES
2. MATERIAL IS NOMINAL SIZE WITHOUT MANUFACTURING ALLOWANCE.
3. FINISH PER.
4. CADMIUM PLATE PER QQ-P-416 CLASS 3, TYPE I.
5. IDENTIFICATION & MARKING PER MIL-STD-130
6. ALTERNATE FINISH-HARD CHROME FLASH ALL OVER PER QQ-C-320 TYPE II CLASS 2
7. MAT'L. PER ASTM-A-108 STEEL BAR (1015-1020) COLD ROLLED, 3 3/8 DIA STK.
8. SURFACE TEXTURE PER, ANSI B46.1-1978

CONTR. No. AF33(657)9715 ESCM21439

CONTRACT NO. F41608-80-G-0037-0029

SYMBOL	DESCRIPTION	DATE	BY	APP'D.
G	ADDED NOTES 7&8 MAT'L. SPEC WAS QQ-S-633	9/22/81	WRG	
F	REMOVED 1/8 R. ADDED 3.110 X 20° CHAMFER	6/22/81	PR	CST
E	ADDED 1/8 R	2/14/76	P.R.	C.S.T.
D	REVISED NOTES	8/13/65	M.H.	
C	ADDED NOTE 7	5/19/64		
B	REMOVED NOTE 4	3/23/63		LTR
A	ADDED -2 & TAB BLOCK	10/9/62		L.E.T

REVISIONS

52-C-905	52-B-878-1	SLEEVE	SEE NOTE 7									
52-D-126	52-B-878-2	SLEEVE	SEE NOTE 7									
52-D-126	52-B-878-1	SLEEVE	SEE NOTE 7	127								
NEXT ASSEMBLY	QUAN. REQ.	PART NUMBER	DESCRIPTION	STOCK SIZE (SEE NOTE 2)	MATERIAL	MAT'L SPEC.	UNIT WT.					
CONFIDENTIAL			DRAWN	R. P. M.	DATE	BLISS RESEARCH						
This drawing and all information herein contained is the exclusive proprietary property of the Bliss Research Company and is to be retained in confidence, is not to be duplicated, is not to be used for any other purpose than for which disclosed and is to be returned to Bliss on demand.			CHECKED	<i>[Signature]</i>	7-10-62	E. W. BLISS COMPANY • SWARTHMORE, PENNSYLVANIA A GULF + WESTERN COMPANY TITLE SLEEVE TAPE SHEAVE (BAK-12/ BAK-13)						
			ANALYZED	DTR	7-12-62							
			DESIGN	DTR	7-12-62							
			PROJECT	F. S.	7-12-62							
			APPROVED	<i>[Signature]</i>	7-11-62							
TOLERANCE:			APPROVED			SCALE	HALF	B	DRAWING NO.	52-B-878	REV.	G
FRACTIONS	DECIMALS	ANGLES										
±	.x .04	±1/2°										
	.xx .010											
	.xxx .004											
UNLESS OTHERWISE NOTED												

2

786-B-982

REV. E

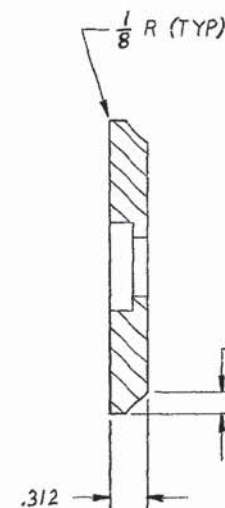
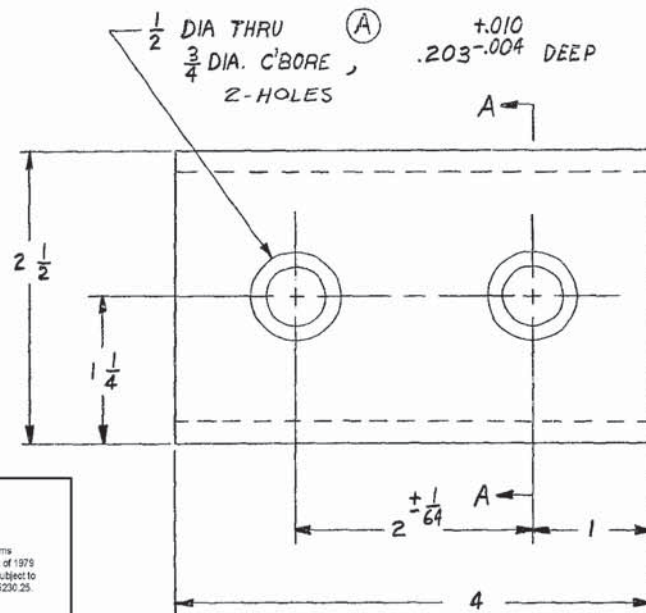
1

CONTR. No. AF33(657)9715

93466

NOTES:

1. BREAK ALL SHARP EDGES.
2. MATERIAL IS NOMINAL SIZE WITHOUT MANUFACTURING ALLOWANCE.
3. FINISH PER.
4. MARKING AND IDENTIFICATION PER MIL-STD-130



SECTION A-A

FSCM 21439

CONTRACT NO. F41608-80-G-0037-0029

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52-W-2295	52-W-1763	52-B-982-1	TAPE GUIDE		STOCK SIZE (SEE NOTE 2)	GEN'L PURPOSE PHENOLIC	MIL-P-15035 TY. FBG	MAT'L. SPEC.	UNIT WT.
NEXT ASSEMBLY		QUAN. REQ.	PART NUMBER	DESCRIPTION					
E	ADDED N/A 52-W-2295 & CONTR. & FSCM NO. 5	9/22/61	WRS	1/4" x 1/2"	DRAWN	S.C.O.	DATE	9-24-62	GW Advanced Development and Engineering Center 101 Chester Road Swarthmore, Pennsylvania 19081 TITLE INNER TAPE GUIDE FAIRLEAD UNIT CODE IDENT NO. 200 SCALE FULL
D	MAT'L WAS STEEL GBU	6-29-64		TCK	CHECKED	A.E.T.	DATE	9-24-62	
C	ADDED 3/16 X 45° CHAMFER	6-3-64		TCK	ANALYZED	F.S.	DATE	9-25-62	
B	ADDED NOTE 4	5-19-64		WBS	DESIGN				
A	1/2 DIA WAS .500 ±.005 DIA; 3/4 DIA C'BORE .750 DIA; .203 ±.010 DP WAS 3/16 DP	10-31-62		W.WILEY	PROJECT	F.S.	DATE	9-25-62	
SYM.	DESCRIPTION	DATE	BY	APP'D.	APPROVED				
REVISIONS					APPROVED				
					DRAWING NO. 52-B-982				

TOLERANCE
FRACTIONS DECIMALS ANGLES
± 1/32 ± .001 ± .010 ± 1/2°
± .004 ± .004 ± .004

UNLESS OTHERWISE NOTED

2

1

2

9901-B-25
52-B-10665
REV.

1

NOTES:

1. BREAK ALL SHARP EDGES.
2. MATERIAL IS NOMINAL SIZE WITHOUT MANUFACTURING ALLOWANCE.
- ③ 3. FINISH PER. SF-100 (COLOR 24052) PER DRAWING NO. 7545352.
4. MARKING & IDENTIFICATION PER MIL-STD-130.
5. UNLESS OTHERWISE SPECIFIED, ALL TOLERANCES ON FRACTIONAL DIMENSIONS SHALL BE $\pm \frac{1}{16}$, EXCEPT DIMENSIONS LOCATING BOLT HOLES TOLERANCE SHALL BE $\pm \frac{1}{64}$.
- ④ 6. MATERIAL PER ASTM-A-36 (1015-1025) STEEL PLATE, $\frac{1}{4}$ THK.

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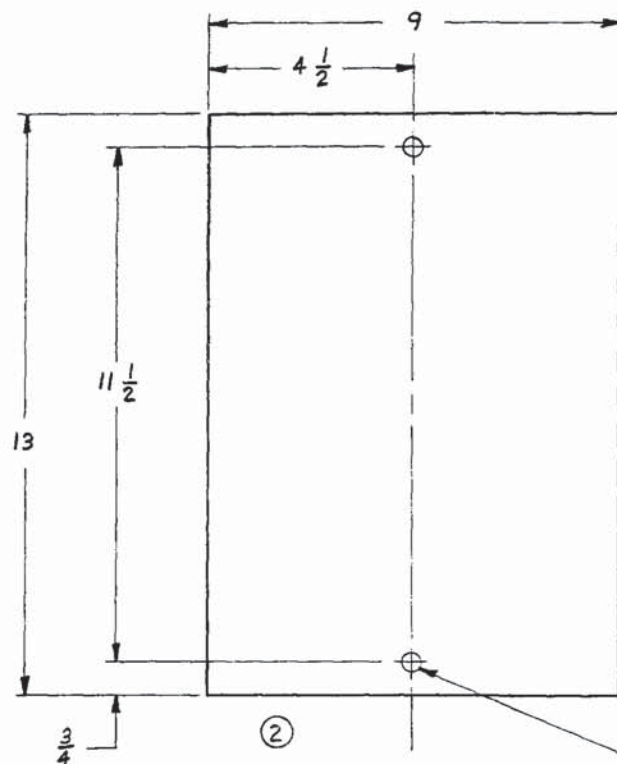
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CONTRACT NO. F41608-80-G-0037-0029



② $\frac{7}{16}$ DIA DRILL THRU (2) HOLES

SYM.	DESCRIPTION	DATE	BY	APP'D.
5	NOTE 3 WAS PS100-52 NOTE 6 WAS HRS 1015-1025 ADDED N/A 52-W-2295	9/22/81	WRG	<i>[Signature]</i>
4	DELETED HEAT-TREAT SPEC. QQ-S-00640 FROM NOTE 6	7/31/81	WRG	<i>[Signature]</i>
3	NOTE 3 WAS, CLEAN PER. MIL-C-490, GR2, T.Y.I, PRIME PER. TT-P-636, ENAMEL PER, TT-E-489, YELLOW NO. 13538 OF STD. 595, PER MIL-T-704.	5/20/81	WRG	<i>[Signature]</i>
2	REMOVED (4) $\frac{7}{16}$ DIA. HOLES ADDED (2) $\frac{7}{16}$ DIA. HOLES	9-17-67	TCK	<i>[Signature]</i>
1	ADDED GRADE I TYPE II TO NOTE 3A	9-8-64	WRG	<i>[Signature]</i>
REVISIONS				

52-W-2295	52-W-1763	QUAN. REQ.	PART NUMBER	52-B-1066-1	INSPECTION COVER	$\frac{1}{4} \times 9 \times 13$	SEE NOTE 6	SEE NOTE 6	UNIT WT.
					DESCRIPTION	STOCK SIZE (SEE NOTE 2)	MATERIAL	MAT'L SPEC.	
					DRAWN	GEU	DATE		
					CHECKED	MICH	10-26-62		
					ANALYZED	F.S.	10-27-62		
					DESIGN				
					PROJECT	F.S.	10-27-62		
					APPROVED	<i>[Signature]</i>	10-27-62		
					APPROVED				
					SCALE	NONE	B	DRAWING NO.	52-B-1066
								REV.	5

TOLERANCE
FRACTIONS DECIMALS ANGLES
 $\pm \frac{1}{16}$ $\pm .004$ $\pm 1/2^\circ$
SEE NOTE 5 $\pm .0005$
UNLESS OTHERWISE NOTED

GW

Advanced Development
and Engineering Center
101 Chester Road Swarthmore, Pennsylvania 19081

TITLE
BAK-12 ARRESTING ENGINE
FAIRLEAD BEAM
INSPECTION COVER

2

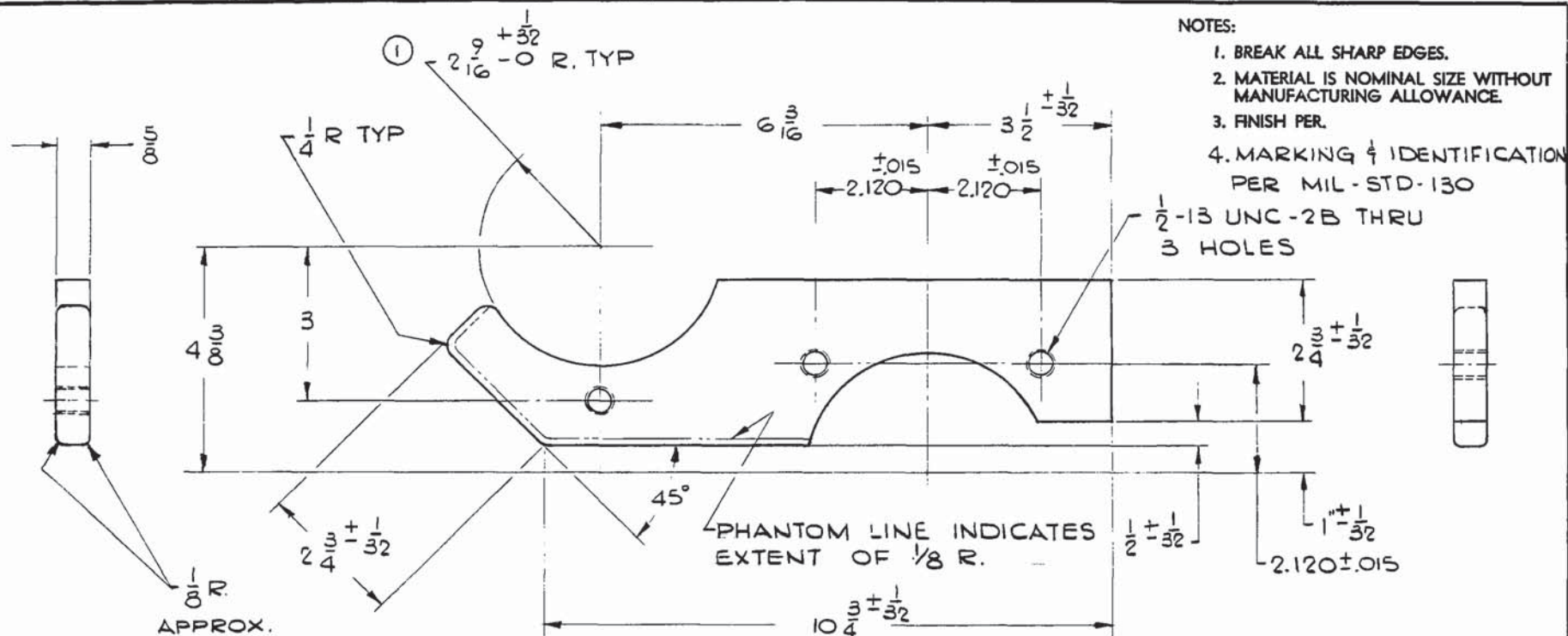
1

2

52-B-1142

3

1



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CONTRACT NO. F41608-80-G-0037-0029
FSCM 21439

52-W-1832	52-B-1142-1	TAPE GUIDE	5/8 x 3 1/4 x 12 3/4	GEN'L PURP PHENOLIC	MIL-P-15035 TY.	FBG
NEXT ASSEMBLY	QUAN. REQ.	PART NUMBER	DESCRIPTION	STOCK SIZE (SEE NOTE 2)	MATERIAL	UNIT WT.
DRAWN	LB	DATE	3/26/63	GW Advanced Development and Engineering Center 101 Chester Road Swarthmore, Pennsylvania 19081		
CHECKED	MK	DATE	3/7/63			
ANALYZED	F.S.	DATE	3-8-63			
DESIGN	F.S.	DATE	3-8-63			
PROJECT	F.S.	DATE	3-8-63			
APPROVED	MK	DATE	3-8-63	TITLE TAPE GUIDE - FAIRLEAD REAR BAK-12 ARREST. ENG.		
APPROVED						
SCALE HALF B				DRAWING NO. 52-B-1142		REV. 3

FRACTIONS	DECIMALS	ANGLES
$\pm \frac{1}{64}$	$\pm .04$	$\pm 1/2^\circ$
	$\pm .001$	
	$\pm .0004$	
UNLESS OTHERWISE NOTED		

SYM.	DESCRIPTION	DATE	BY	APPD.
3	REDRAWN FOR CLARITY	3-27-81	F.C.	MK
2	MAT'L WAS STEEL	6/29/64	GEU	MK
1	$2\frac{9}{16} \pm \frac{1}{32}$ WAS $2\frac{1}{2}$ R	6/3/64	RGG	MK

REVISIONS

2

1

2

52-B-1143

2

1

NOTES:

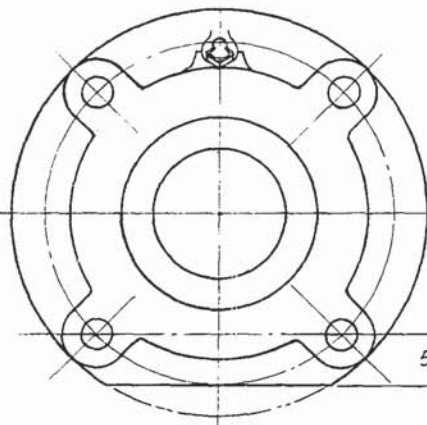
1. BREAK ALL SHARP EDGES.
2. MATERIAL IS NOMINAL SIZE WITHOUT MANUFACTURING ALLOWANCE.
3. FINISH PER.
- ① 4. MARKING & IDENTIFICATION PER MIL-STD-130
- ② 5. SURFACE TEXTURE PER ANSI B46.1-1978

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② ALTERED ITEM DRAWING

CONTRACT NO. F41608-80-G-0037-0029

FSCM 21439

SEALMASTER BRGS DIV. OF STEPHENS ADAMSON MFG. CO.
AURORA, ILL. FED. SUPPLY CODE N^o 02695

52-W-1832	52-B-1143-1	BEARING	MAKE FROM MFC-36	SEALMASTER OR EQ
NEXT ASSEMBLY	QUAN. REQ.	PART NUMBER	DESCRIPTION	STOCK SIZE (SEE NOTE 2)
				MATERIAL
				MAT. L. SPEC.
				UNIT WT.

DRAWN	LB	DATE	2-28-63
CHECKED	MK	DATE	3-7-63
ANALYZED	F.S.	DATE	3-8-63
DESIGN	F.S.	DATE	3-8-63
PROJECT	F.S.	DATE	3-8-63
APPROVED	MK	DATE	3-8-63
APPROVED			

TOLERANCE			
FRACTIONS	DECIMALS	ANGLES	
±	± .004	± 1/2°	
	± .010		
	± .004		
UNLESS OTHERWISE NOTED			

TITLE			
BEARING TAPE SHEAR			
BAK-12 ARREST. ENG.			

SCALE	HALF	B	DRAWING NO.	52-B-1143	REV.	2
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2	ADDED NOTE 5 & NOTE ALTERED ITEM DRAWING	2/29/31	F.C.	MK
1	ADDED NOTE #4	5-19-63	NRG	F.S.
SYM.	DESCRIPTION	DATE	BY	APP'D.
REVISIONS				

GWR 453

2

1

Compton

2

REV. 3
DRAWING NO. 52-B-1368

1

NOTES:

1. BREAK ALL SHARP EDGES.
2. MATERIAL IS NOMINAL SIZE WITHOUT MANUFACTURING ALLOWANCE.
- ③ ② ① 3. FINISH PER. SF-100 (COLOR 29052) PER DRAWING NO. 7545352
- ③ 4. MAT'L. PER ASTM A 108 STEEL ROUND BAR (1015-1025) HOT ROLLED, 2.00 DIA.
- ③ 5. SURFACE TEXTURE PER ANSI B 46.1-1978
- ③ 6. IDENTIFY PART PER MIL-STD-130.

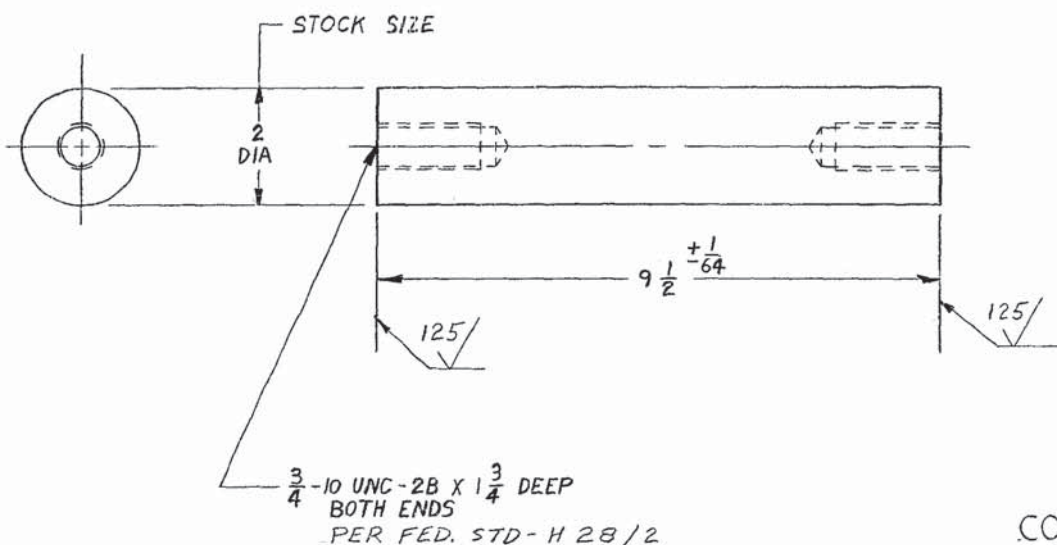
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CONTRACT NO. F41608-80-G-0037-0029
FSCM 21439



3	NOTE 3 WAS PS100-52 ADDED NOTES 4, 5 & 6, MAT'L. SPEC WAS QQ-S-633	9/23/81	WRG	1/27
2	FINISH NOTE WAS CLEAN PER MIL-C-490 GR II, TYI OR GR I, TYI, PRIME PER TT-P-636, ENAMEL PER TT-E-489, YELLOW NO 13538 OF STD 595, PER MIL-T-704	5-21-81	RS.	1/27
1	ADDED GRADE I TYPE II TO FINISH NOTE	9-8-64	WRG	1/27
SYM.	DESCRIPTION	DATE	BY	APP'D.
REVISIONS				

52-W-2295	52-W-1937-1	52-B-1368-1	SPACER	2 DIA X 9 1/2	SEE NOTE 4	SEE NOTE 4	
NEXT ASSEMBLY	QUAN. REQ.	PART NUMBER	DESCRIPTION	STOCK SIZE (SEE NOTE 2)	MATERIAL	MAT'L. SPEC.	UNIT WT.
TOLERANCE FRACTIONS ± DECIMALS ± .01 ANGLES ± 1/2° UNLESS OTHERWISE NOTED DRAWN GEU CHECKED B ANALYZED F.S. DESIGN PROJECT F.S. APPROVED 1/27 APPROVED DATE 9-27-63 9-28-63 9-29-63 9-29-63 9-29-63				GW Advanced Development and Engineering Center 101 Chester Road Swarthmore, Pennsylvania 19081			
				TITLE			
				ARRESTING GEAR FAIRLEAD BEAM SPACER			
				SCALE HALF	B	DRAWING NO. 52-B-1368	REV. 3

2

1

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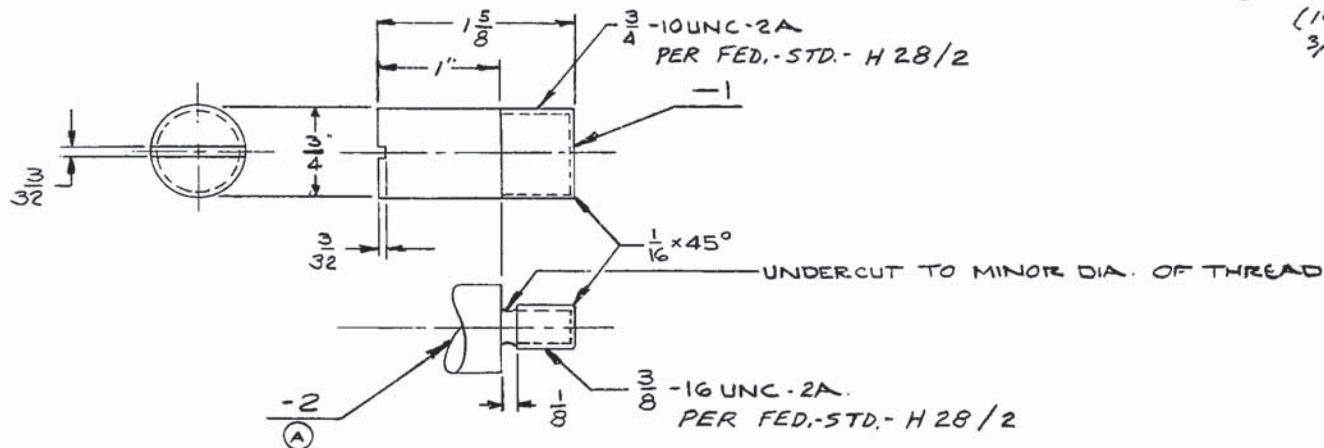
NOTES:

1. BREAK ALL SHARP EDGES.
2. MATERIAL IS NOMINAL SIZE WITHOUT MANUFACTURING ALLOWANCE.

3. MARKING & IDENTIFICATION
PER MIL-STD-130

4. CAD. PLATE PER QQ-P-416
CLASS 3, TYPE I

⑤ 5. MAT'L. PER ASTM-A-108
(1015-1025) STEEL ROUND
3/4 DIA. COLD ROLLED.



CONTRACT NO.F41608-80-G-0037-0029
FSCM 21439

52-W-2295	52-W-1937-1		52-B-1422-2	ALIGNMENT PIN	3/8 DIA X 1 5/8	SEE NOTE 5	SEE NOTE 5	
52-W-2291	52-W-1765-1		52-B-1422-1	ALIGNMENT PIN	3/8 DIA X 1 5/8	SEE NOTE 5	SEE NOTE 5	
NEXT ASSY.	NEXT ASSEMBLY	QUAN. REQ.	PART NUMBER	DESCRIPTION	STOCK SIZE (SEE NOTE 2)	MATERIAL	MAT'L SPEC.	UNIT

C	ADDED NOTE 5 THD. SPEC #N/A. 52-W-2295	9/23/01	WRS	<i>[Signature]</i>
B	ADDED NEXT ASSY	11/28/99	P.R.	CST
A	ADDED - 2	6-10-01	GEV	<i>[Signature]</i>
SYM.	DESCRIPTION	DATE	BY	APPD.
REVISIONS				

ⓑ

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TOLERANCE

FRACTIONS	DECIMALS	ANGLES
$\pm \frac{1}{32}$	.x .04	$\pm 1/2^\circ$
32	.xx .010	

UNLESS OTHERWISE NOTED

DRAWN	TCK	DATE 5-19-64
CHECKED	<i>[Signature]</i>	5-19-64
ANALYZED	CST	10-24-78
DESIGN	REID	5/19/64
PROJECT	CST	10-24-78
APPROVED	<i>[Signature]</i>	10-24-78
APPROVED		

DATE
5-19-64
5-19-64
10-24-78
5/19/64
10-24-78
10-24-78

E. W. BLISS COMPANY—U.S.A.
ENGINEERING RESEARCH & DEVELOPMENT DIVISION
SWARTHMORE, PENNA.

TITLE
ALIGNMENT PIN
BAK-12

SCALE <i>FULL</i>	B	DRAWING NO. <i>52-B-1422</i>
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REV
C

93466

2

5066-B-9905

REV. A

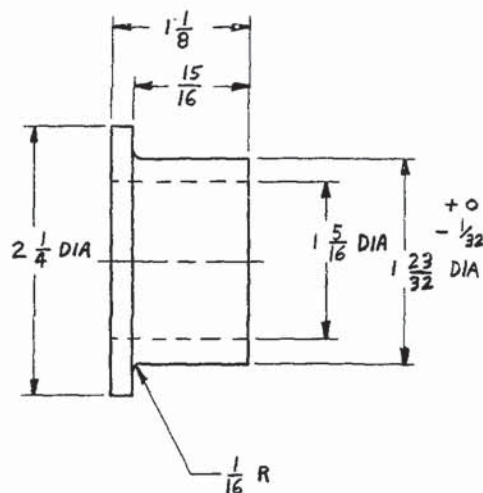
1

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**NOTES:**

1. BREAK ALL SHARP EDGES.
2. MATERIAL IS NOMINAL SIZE WITHOUT MANUFACTURING ALLOWANCE.
3. FINISH:
CADMIUM PLATE IN ACCORDANCE
WITH QQ-P-416A, CLASS 3, TYPE I.
- ④ 4. MAT'L. PER ASTM-A-108
(1015-1025) STEEL ROUND
2 1/4 DIA. HOT ROLLED.
- ④ 5. IDENTIFY PART PER
MIL-STD-130.

CONTRACT NO, F41608-80-G-0037-0029

FSCM 21439

52-W-2295-201	52-B-9905-1	SPACER	2 1/4 DIA x 1 1/8	SEE NOTE 4	SEE NOTE 4	UNIT WT.
NEXT ASSEMBLY	QUAN. REQ.	PART NUMBER	DESCRIPTION	STOCK SIZE (SEE NOTE 3)	MATERIAL	MAT'L SPEC.
			DRAWN RJ SMITH	DATE 5-6-81	GW Advanced Development and Engineering Center 101 Chester Road Swarthmore, Pennsylvania 19081	
			CHECKED W.R.G.	5-10-81		
			ANALYZED CST	5-15-81		
			DESIGN CST	5-15-81		
			PROJECT CST	5-15-81		
			APPROVED	5-10-81	TITLE ARRESTING GEAR FAIRLEAD BEAM SPACER, ANCHOR BOLT	
			APPROVED			
					SCALE FULL	B
					DRAWING NO. 52-B-9905	REV. A

TOLERANCE		
FRACTIONS	DECIMALS	ANGLES
± 1/64	± .004	± 1/2°
± 1/32	± .010	
± 1/16	± .004	
UNLESS OTHERWISE NOTED		

SYM.	DESCRIPTION	DATE	BY	APP'D.
A	ADDED NOTES 4 & 5	9-23-81	WRS	WRS
REVISIONS				

2

1

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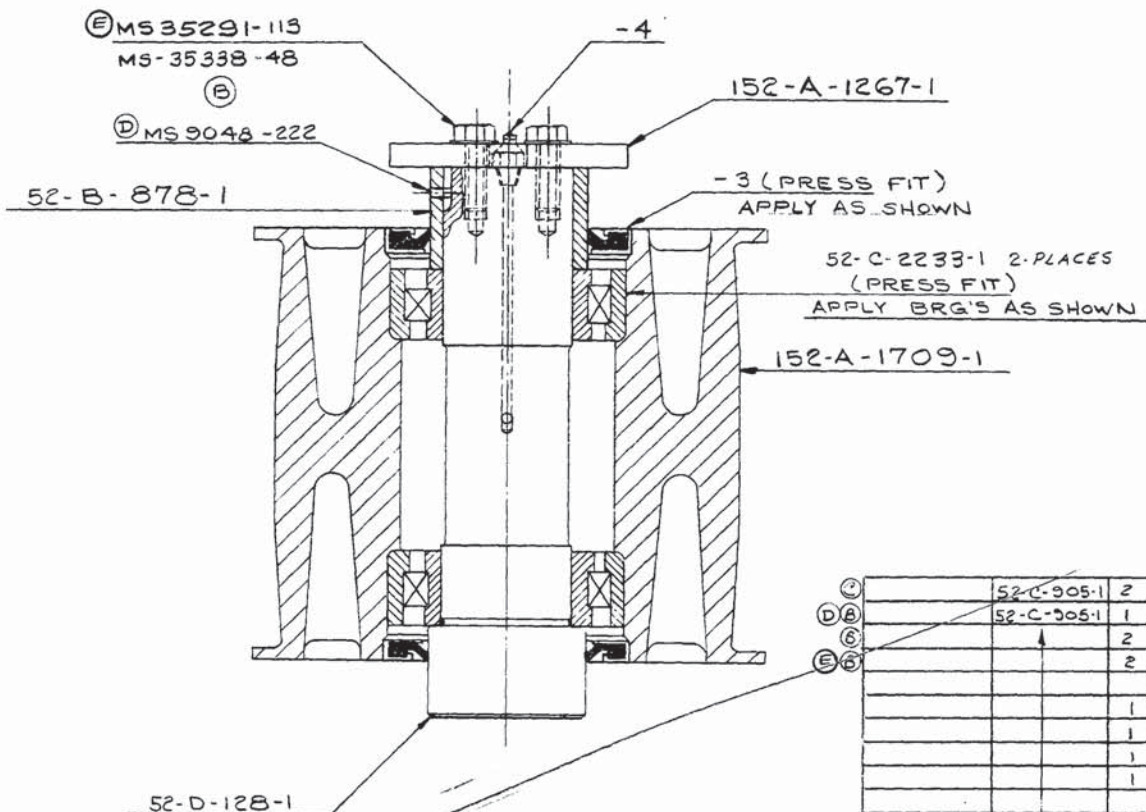
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2. MATERIAL IS NOMINAL SIZE WITHOUT
MANUFACTURING ALLOWANCE.
3. FINISH PER.

④ 4. IDENTIFY PART PER
MIL-STD-130.



CONTRACT NO. F41608-80-G-0037-0029
FSCM 21439

SYM.	DESCRIPTION	DATE	BY	APP'D.
F	ADDED NOTE 4 & 11/52-W-2295	9-23-81	WRS	1/10/82
E	MS35291-113 WAS MS90728-113	12-1-76	E.T.	TEK
D	MS9048-222 WAS MS9045-222	7/1/73	P.R.	8/2
C	DELETED PART-2 & ADDED 52-C-2233-1	7/1/68	C.F.H.	2/1/82
B	DELETED ITEMS -5, -6, -7 ADDED MS 9045-222 MS 35338-48 MS 90728-113	8/1/63	C.F.H.	1/2/82
A	THIS DWG. REPLACES 52-C-826-1 "PRELIMINARY"	9/29/64		T.C.K.
REVISIONS				

②	52-C-905-1	2	52-C-2233-1	BEARING					
④	52-C-905-1	1	MS9048-222	SPRING PIN	1/4 DIA. x 1/2 LG.				
⑥		2	MS35338-48	LOCKWASHER	1/2 MED.				
⑤		2	MS35291-113	CAD SCR.-HEX. HD.	1/2-13UNC-2A x 1 1/2 LG. CAD. PL.				
		1	52-B-878-1	SLEEVE					
		1	52-D-128-1	SHAFT					
		1	152-A-1709-1	SHEAVE					
		1	152-A-1267-1	END PLATE					
⑦			-7						
⑧			-6						
⑨			-5						
	95879	1	52-C-905-4	LUBE FITTING ALEMITE	#1627 (NPTF)			OR EQUIV.	
	03468	2		SEAL	GARLOCK	53 x 2315		OR EQUIV.	
⑩	51600	52-C-905-1							
	52-W-2295	52-W-1745-1	52-C-905-1	SHEAVE ASSY.					92
NEXT ASSY.									
	FED. SUPPLY CODE NO.	NET ASSEMBLY	QUAN. REQ.	PART NUMBER	DESCRIPTION	STOCK SIZE (SEE NOTE 2)	MATERIAL	MAT'L SPEC.	UNIT WT.

DRAWN	TCK	DATE
CHECKED	WRS	6-30-64
ANALYZED	PR.	9-6-72
DESIGN	P.R.	6-30-64
PROJECT	PR.	9-6-72
APPROVED	WRS	6-30-64
APPROVED	WRS	9/4/72

TOLERANCE		
FRACTIONS	DECIMALS	ANGLES
±	.x .04 .xx .010 xxx .004	±1/2°
UNLESS OTHERWISE NOTED		

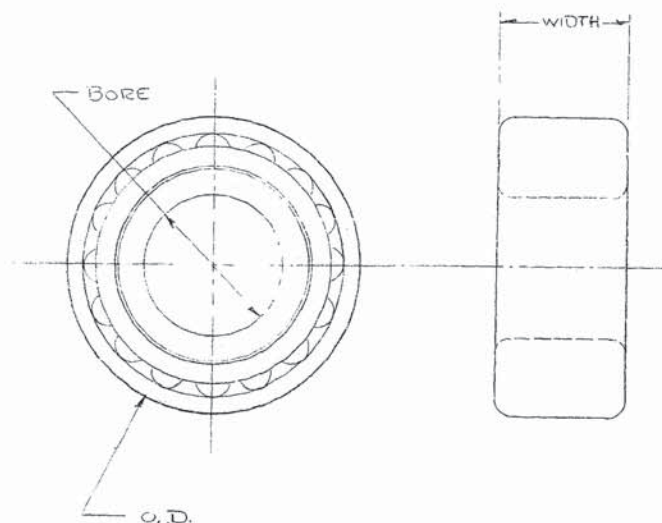
BLISS RESEARCH

E. W. BLISS COMPANY • SMARTSMORE, PENNSYLVANIA
A GULF • WESTERN COMPANY

TITLE
SHEAVE ASSY - TAPE
BAK-12 A/G

SCALE HALF C DRAWING NO. 52-C-905 REV. F

DASH NO.	BORE	O.D.	WIDTH	RADIAL STATIC CAPACITY	THRUST LOAD RATING @ 100 R.P.M.	RADIAL SPECIFIC DYNAMIC CAPACITY
	INCHES	INCHES	INCHES	POUNDS	POUNDS	POUNDS
-1	2.7559	4.9213	1.5625	28,100	3,400	32,600



SOURCE
ROLLWAY BEARING COMPANY, INC.,
SYRACUSE, NEW YORK (ROLLWAY # ML-5214)
FSC 14 51600

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 2. MATERIAL IS NOMINAL SIZE WITHOUT MANUFACTURING ALLOWANCE.
 3. FINISH PER.
 - ④ 4. ONLY THE ITEM DESCRIBED ON THIS DWG. WHEN PROCURED FROM THE VENDOR LISTED HEREON IS APPROVED BY GULF + WESTERN R & D CENTER 101 CHESTER RD. SWARTHMORE, PA. 19081, FOR USE IN THE APPLICATION SPECIFIED HEREON. A SUBSTITUTE ITEM SHALL NOT BE USED WITHOUT PRIOR TESTING & APPROVAL BY GULF + WESTERN R & D CENTER OR BY THE GOVERNMENT PROCUREMENT ACTIVITY.
 - ⑤ 5. IDENTIFY PART PER MIL-STD-130.

SOURCE CONTROL DRAWING

CONTRACT NO. F41608-80-G-0037-0029

FSC 14 21439

SYMBOL	DESCRIPTION	DATE	BY	APP'D.
C	ADDED NOTE 5	9-25-81	WRS	WSP
B	ADDED NOTE-4	4-9-71	T.D.	WSP
A	RELEASED FINAL	8-10-68	BT	WSP

REVISIONS

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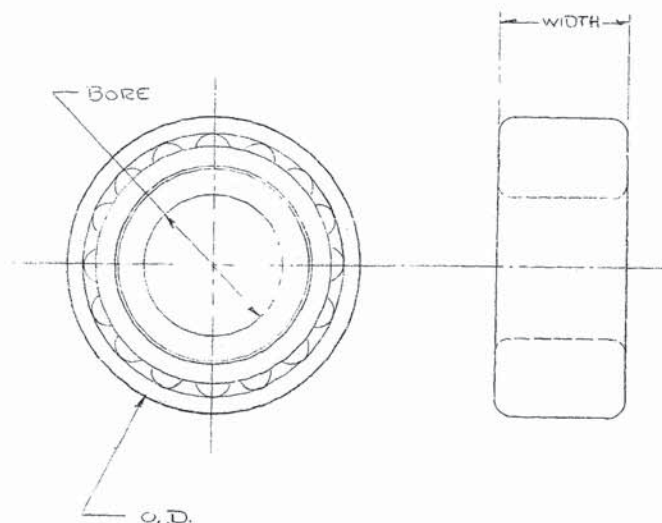
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52-C-965-1	52-C-905-1	52-C-2233-1	BEARING		STOCK SIZE (SEE NOTE 2)	MATERIAL	MAT'L SPEC.	LTG. WT.
NEXT ASSEMBLY	QUAN. REQ.	FIRST NUMBER	DESCRIPTION		E. W. BLISS COMPANY-U.S.A. ENGINEERING RESEARCH & DEVELOPMENT DIVISION SWARTHMORE, PENNA			
			DRAWN	C.F.H.	DATE	9/6/68		
			CHECKED	W.R.G.	DATE	9/10/68		
			ANALYZED					
			DESIGN	W.P.	DATE	9-10-68		
			PROJECT	D.J.	DATE	9-10-68		
			APPROVED	WSP	DATE	9-24-70		
			APPROVED					
TOLERANCE			UNLESS OTHERWISE NOTED					
FRACTIONS	DECIMALS	ANGLES						
±	.x .04 .xx .010 .xxx .004	± 1/2°						
SCALE			NONE C					
DRAWING NO.			52-C-2233					
REV.			C					

DASH NO.	BORE	O.D.	WIDTH	RADIAL STATIC CAPACITY	THRUST LOAD RATING @ 100 R.P.M.	RADIAL SPECIFIC DYNAMIC CAPACITY
	INCHES	INCHES	INCHES	POUNDS	POUNDS	POUNDS
-1	2.7559	4.9213	1.5625	28,100	3,400	32,600



SOURCE
ROLLWAY BEARING COMPANY, INC.,
SYRACUSE, NEW YORK (ROLLWAY # ML-5214)
FSC 14 51600

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 2. MATERIAL IS NOMINAL SIZE WITHOUT MANUFACTURING ALLOWANCE.
 3. FINISH PER.
 - ④ 4. ONLY THE ITEM DESCRIBED ON THIS DWG. WHEN PROCURED FROM THE VENDOR LISTED HEREON IS APPROVED BY GULF + WESTERN R & D CENTER 101 CHESTER RD. SWARTHMORE, PA. 19081, FOR USE IN THE APPLICATION SPECIFIED HEREON. A SUBSTITUTE ITEM SHALL NOT BE USED WITHOUT PRIOR TESTING & APPROVAL BY GULF + WESTERN R & D CENTER OR BY THE GOVERNMENT PROCUREMENT ACTIVITY.
 - ⑤ 5. IDENTIFY PART PER MIL-STD-130.

SOURCE CONTROL DRAWING

CONTRACT NO. F41608-80-G-0037-0029

FSC 14 21439

SYMBOL	DESCRIPTION	DATE	BY	APP'D.
C	ADDED NOTE 5	9-25-81	WRG	WEP
B	ADDED NOTE-4	4-9-71	T.D.	WEP
A	RELEASED FINAL	8-10-68	BT	WEP

REVISIONS

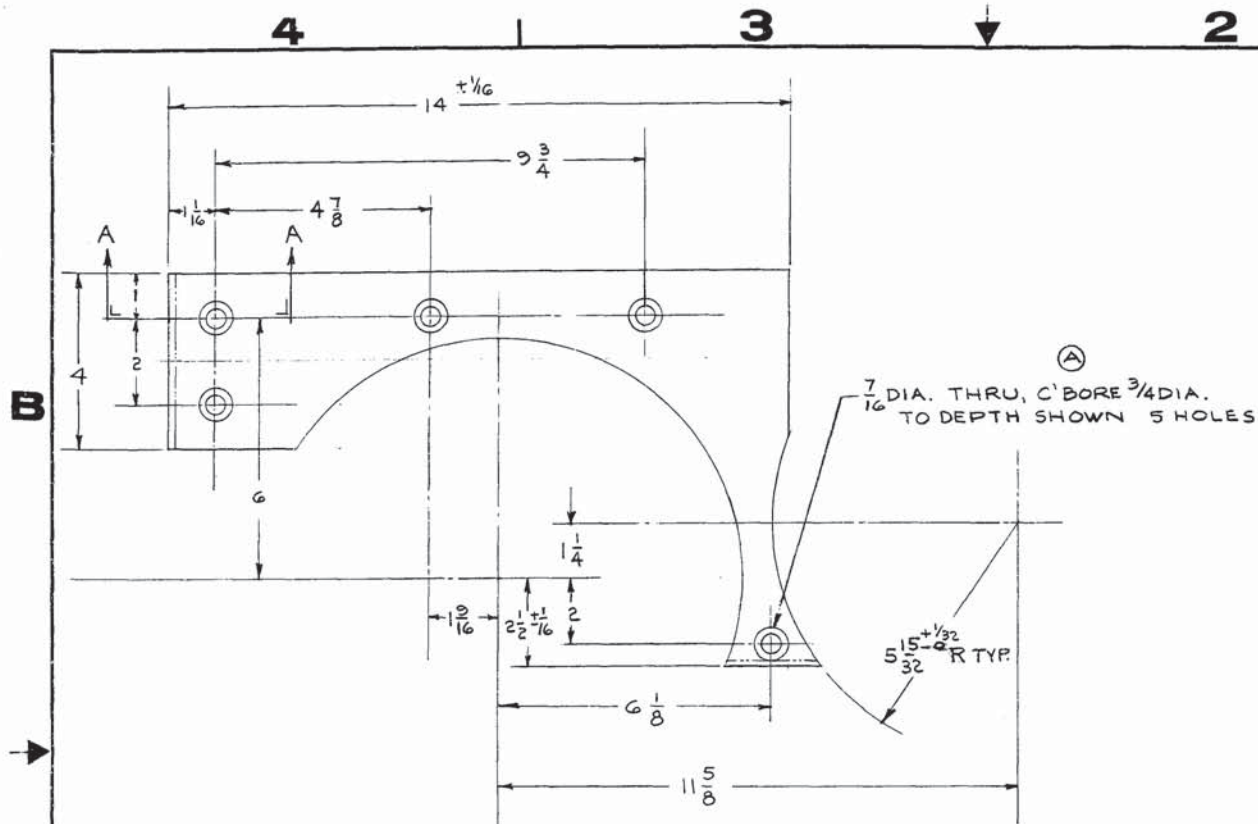
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52-C-965-1	52-C-905-1	52-C-2233-1	BEARING		STOCK SIZE (SEE NOTE 2)	MATERIAL	MAT'L SPEC.	LTG. WT.
NEXT ASSEMBLY	QUAN. REQ.	FIRST NUMBER	DESCRIPTION		E. W. BLISS COMPANY-U.S.A. ENGINEERING RESEARCH & DEVELOPMENT DIVISION SWARTHMORE, PENNA			
			DRAWN	C.F.H.	DATE	9/6/68		
			CHECKED	W.R.G.	DATE	9/10/68		
			ANALYZED					
			DESIGN	WEP	DATE	9-10-68		
			PROJECT	D.J.	DATE	9-10-68		
			APPROVED	WEP	DATE	9-24-70		
			APPROVED					
TOLERANCE			UNLESS OTHERWISE NOTED					
FRACTIONS	DECIMALS	ANGLES						
±	.x .04 .xx .010 .xxx .004	± 1/2°						
SCALE			NONE					
DRAWING NO.			52-C-2233					
REV.			C					



- NOTES:
1. BREAK ALL SHARP EDGES.
 2. MATERIAL IS NOMINAL SIZE WITHOUT MANUFACTURING ALLOWANCE.
 3. FINISH PER.
 4. MARKING & IDENTIFICATION PER MIL-STD-130

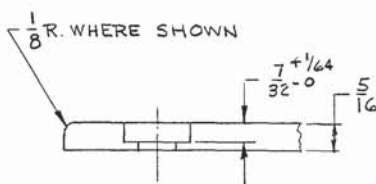
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-1 AS SHOWN
-2 OPPOSITE

CONTRACT NO. F41608-80-G-0037-0029
FSCM 21439



SECTION "AA"
FULL SIZE

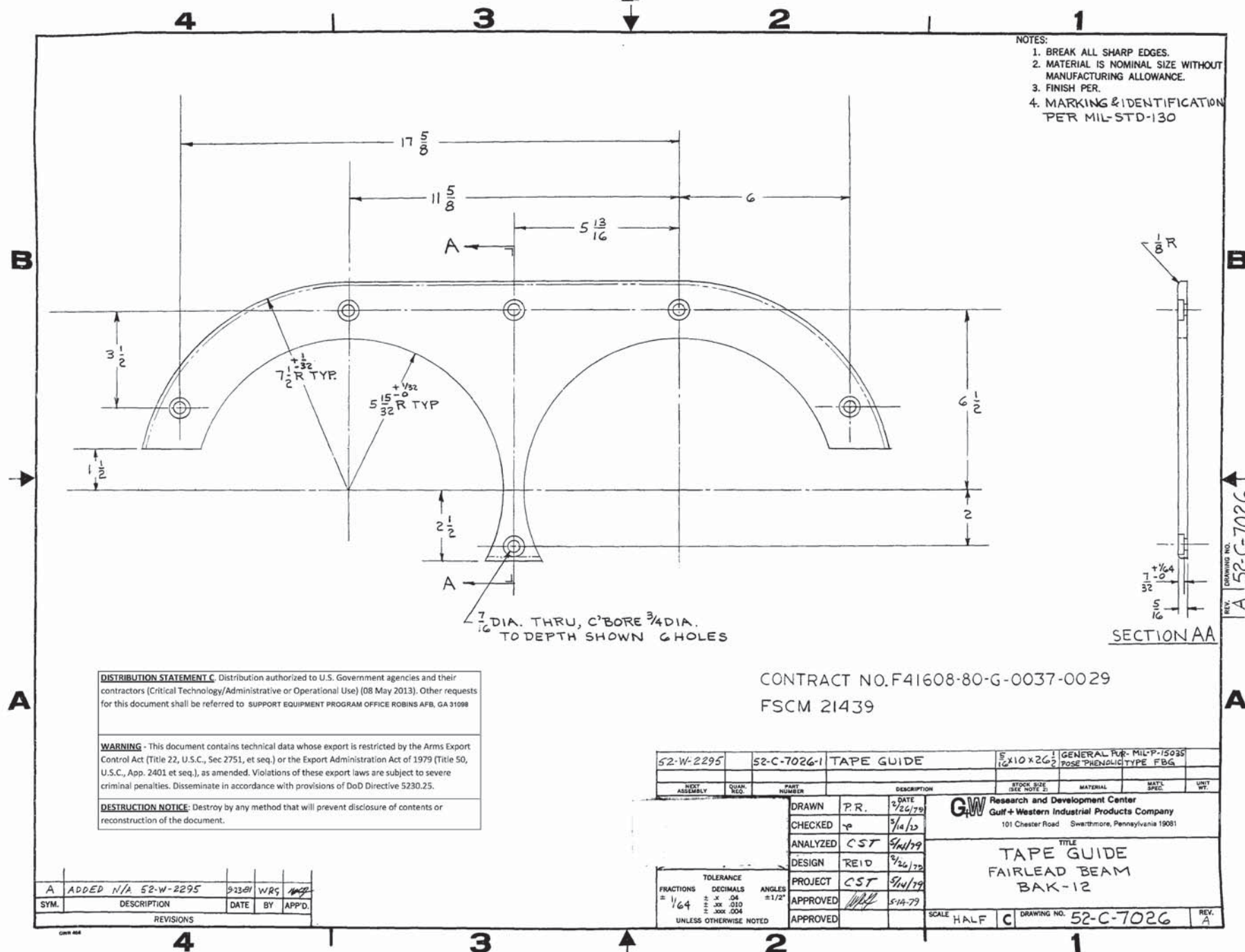
52-W-2295	52-C-7025-2	TAPE GUIDE OPPOSITE	5/16 x 9 1/2 x 14 3/4	GENERAL PURPOSE MIL-P-15035 ROSE PINK/BLACK TYPE FBG			
52-W-2295	52-C-7025-1	TAPE GUIDE AS SHOWN	5/16 x 9 1/2 x 14 3/4	GENERAL PURPOSE MIL-P-15035 ROSE PINK/BLACK TYPE FBG			
WDT ASSEMBLY	QUAN. REQD.	PART NUMBER	DESCRIPTION	STOCK SIZE (SEE NOTE 2)	MATERIAL	MAT'L SPEC.	UNIT WT.

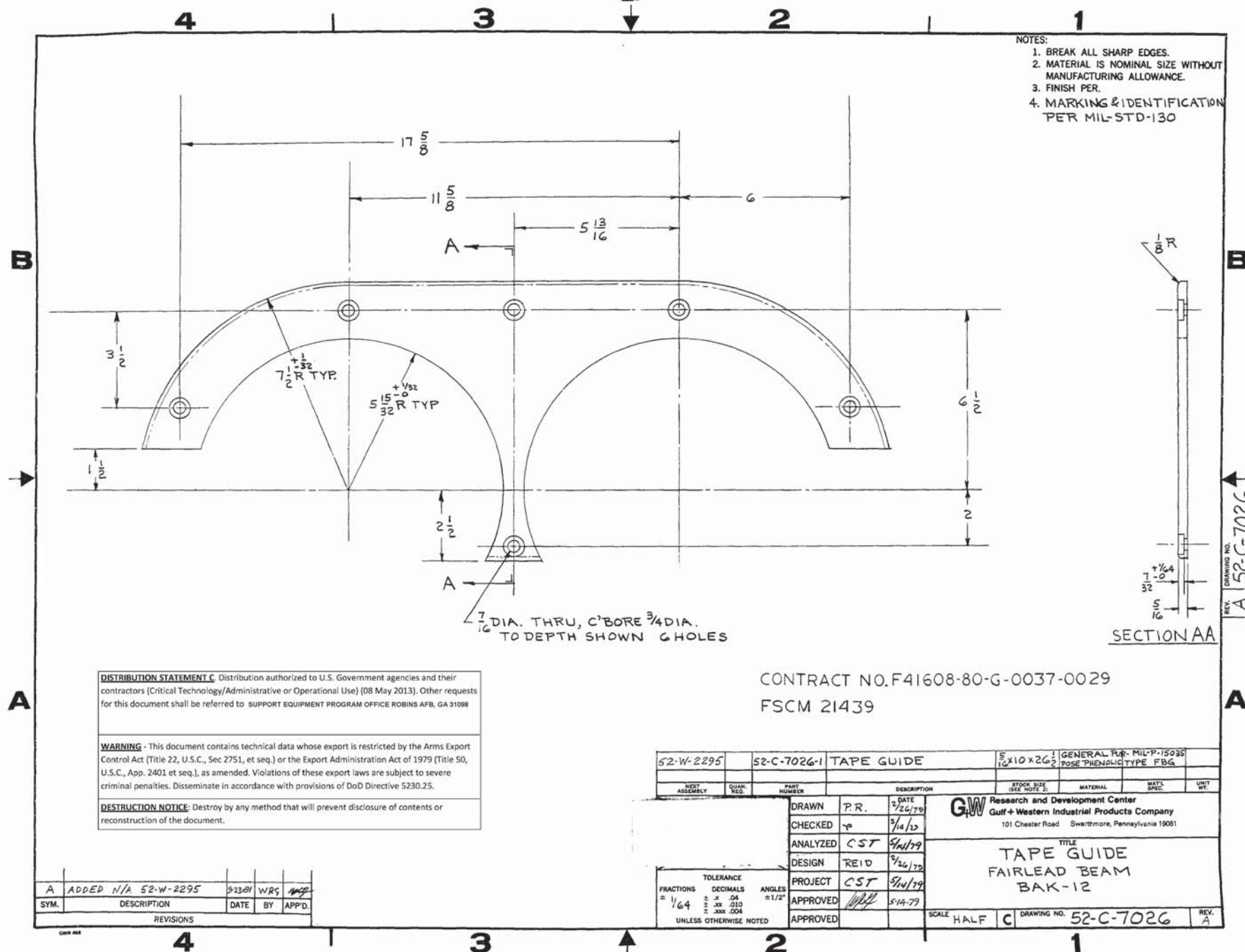
DRAWN P.R.		DATE 2/26/78	GW Research and Development Center Gulf + Western Industrial Products Company 101 Chester Road Swarthmore, Pennsylvania 19081	
CHECKED T		DATE 5/10/79		
ANALYZED CST		DATE 5/14/79		
DESIGN REID		DATE 2-26-79		
PROJECT CST		DATE 5/14/79	TITLE TAPE GUIDE FAIRLEAD BEAM BAK-12	
APPROVED MRP		DATE 5/14/79		
APPROVED			SCALE HALF	C

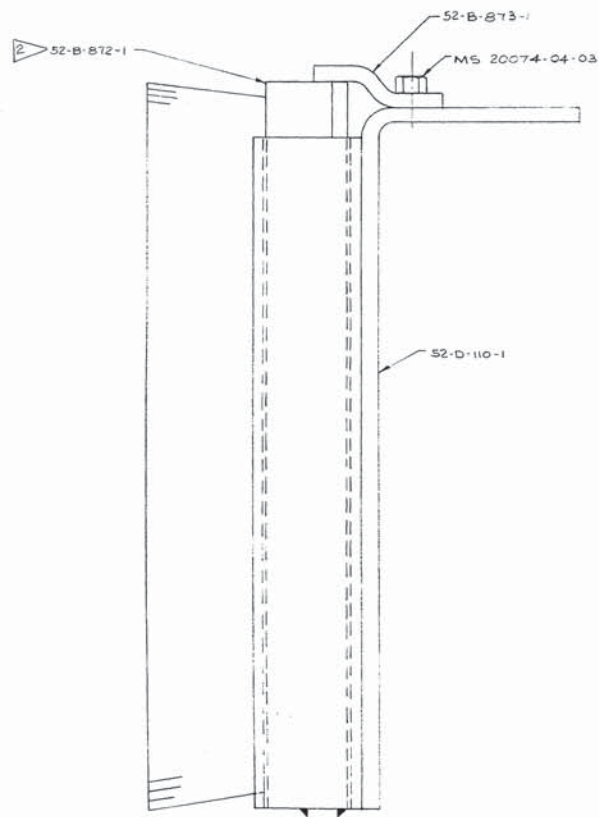
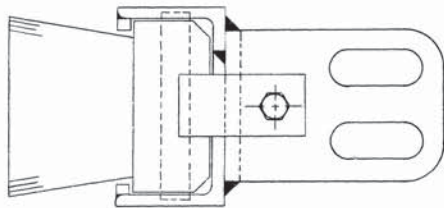
FRACTIONS	TOLERANCE	DECIMALS	ANGLES
± 1/64	± .04	± .010	± 1/2°
	± .004	± .004	
UNLESS OTHERWISE NOTED			

B	ADDED N/A 52-W-2295	2/28/81	WRS	APP'D
A	ADDED MTG HOLE SIZE	7/10/79	P.R.	
SYM.	DESCRIPTION	DATE	BY	APP'D.
REVISIONS				

REV. B
DRAWING NO. 52-C-7025







NOTE:
 MARKING & IDENTIFICATION PER MIL-STD-130
 (B) 2 YENDOR ITEM-SEE SPEC. CONTROL DWG.

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APPROVED
A		REVISED PICTURE TO AGREE WITH DESIGN CHANGE ON 52-D-110-1	6-11-64	AB
B		ADDED NOTE 2 & N/A 52-W-2295	9-22-81	AB

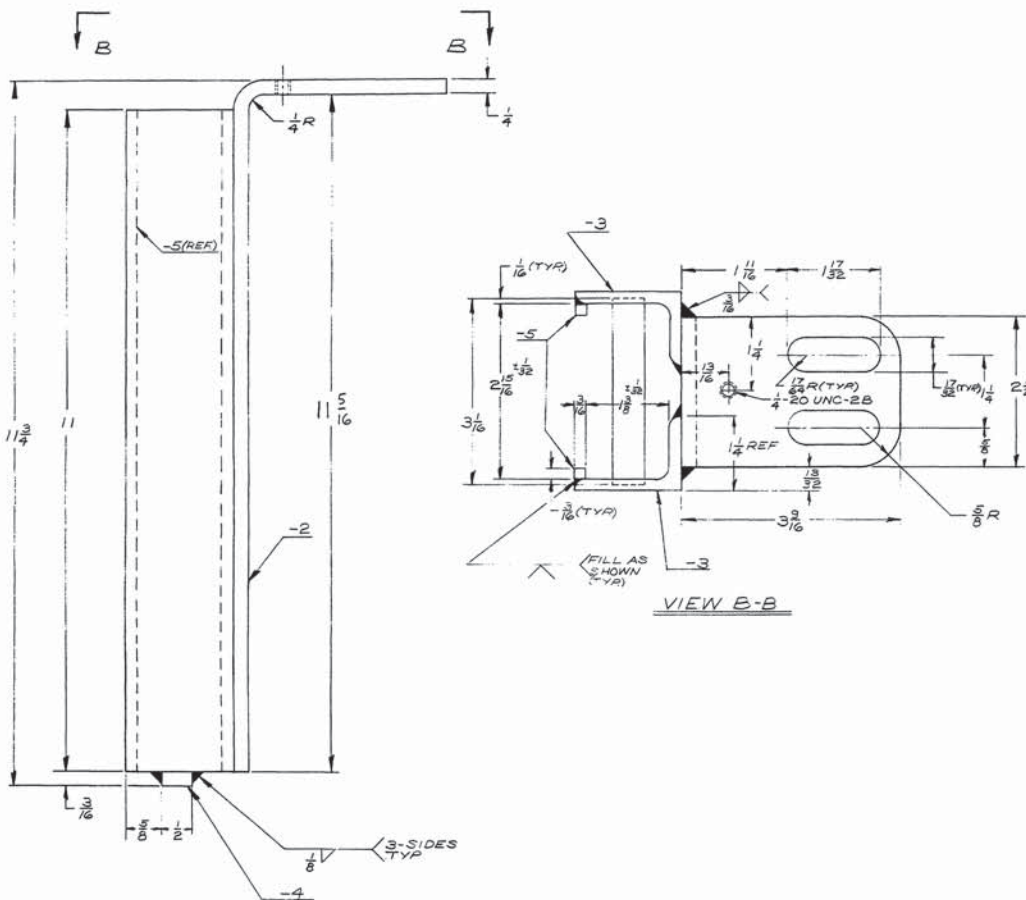
CONTRACT NO. F41605-80-G-0037-0029
 FSCM 21439

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 Critical Technology Export Control, 28 May 2013. Other requests for this document
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52-D-109-1	1	MS 20074-04-03	BOLT						
	1	52-B-873-1	RETAINER-BRUSH						
	1	52-D-110-1	BRACKET-TAPE BRUSH						
52-D-109-1	1	52-B-872-1	BRUSH						
52-W-19374	1	52-D-109-1	TAPE BRUSH ASSY						
52-W-17631	1	52-D-109-1	TAPE BRUSH ASSY						

NEXT ASSEMBLY	QTY. REQD.	PART NUMBER	DESCRIPTION	STOCK SIZE	MATERIAL	MATERIAL SPEC.	UNIT WT.	ZONE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			DRAWN: C. CONOVER 8 JULY 61		E. W. BLISS COMPANY	
TOLERANCES ON:			CHECKED: J. H. B. 17 AUG 62		ENGINEERING RESEARCH & DEVELOPMENT DIVISION	
FRACTIONS	DECIMALS	ANGLES	DESIGN: P. E. 17 AUG 62		SWARTHMORE, PENNA.	
"	± .010	± 1/2°	ANALYZED: WSP 17 AUG 62		TITLE: TAPE BRUSH ASSY	
MECHANICAL FINISH SURFACE			PROJ. ENG: M. J. 17 AUG 62		DATE: 17-8-72	
ROUGHNESS IN MICROINCHES			APPROVED: [Signature]		GAGE: 21439	
V- THIS SYMBOL, ENGRAVING THE SURFACE, REPRESENTS THE MAXIMUM ACCEPTABLE ROUGHNESS AND MAY BE PRODUCED BY ANY MECHANICAL PROCESS.			APPROVED: [Signature]		SIZE: D	
			DATE: 17-8-72		DRAWING NO.: 52-D-109	
					SHEET: B	
					SCALE: FULL	



NOTES:

1. BREAK ALL SHARP EDGES.
2. THREADS SHALL BE IN ACCORDANCE WITH FED. STD. H 2B/2.
3. WELDING SYMBOLS PER ANSI/AWS 2.4.76
- 4.
- 5.
6. MARKING AND IDENTIFICATION OF PARTS PER MIL-STD-130
- 7.
8. FINISH PER SF100 (COLOR #24052) PER DRAWING NO. 7545352.
9. MAT'L PER ASTM-A36 (1015-1025) STEEL PLATE, 1/4 THK.
10. MAT'L PER ASTM-A36 (1015-1025) STEEL ANGLE.
11. MAT'L PER MIL-S-7952 (1020-1025) STEEL SHEET 3/16 THK.
12. WELDING AND WELDERS PERFORMANCE QUALIFICATIONS SHALL BE PER AWS D1.1

REVISIONS			
REV.	ZONE	DESCRIPTION	DATE
A		ADDED NOTES 7&8	1/10/68 W.WILEY
B		REMOVED NOTE 4	3/24/68 D.T.R.
C		REDESIGNED	4/24/68
D		LENGTH OF ITEM-A CORRECTED TO 3 1/2	7/25/68 W.WILEY
E		ADDED TO NOTE 8(a) GRADE 3, TYPE II	5/4/69
F		WELD SPEC'S CHANGED-WAS MIL-STD-378	2/16/69 M.M.J.R.
G		NOTE 8 WAS CLEAN PER MIL-C-450 GR.2, TT.1, PRIME PER TT-P-436, ENAMEL PER TTE-489 YELLOW NO.13538 OF STD. 825 PER MIL-T-704	3/20/61 W.R.G.
H		DELETED NOTE 5, WAS WELDING PROCESS SHALL BE IN ACCORDANCE WITH MIL-N-B611. DELETED NOTE 7, WAS WHEN PART IS MFGD. FOR BAK-12 FINISH HPR 1801-23 DOES NOT APPLY.	7/8/61 W.R.S.
J		NOTE 2 WAS PER HANDBOOK H28 § MIL-STD-9 NOTE 9 WAS PER JAN-STD-19, NOTE 8 WAS PS 100-52, ADDED NOTES 9,10,11,12. MAT'L WAS STL., MAT'L SPEC WAS 1015-1025	9/14/61 W.R.G.

CONTRACT NO.F41608-80-G-0037-0029

FSCM 21439

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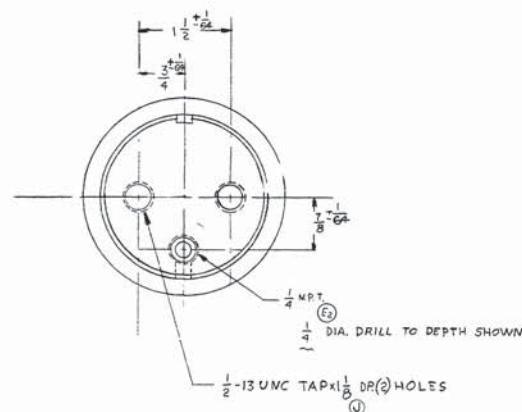
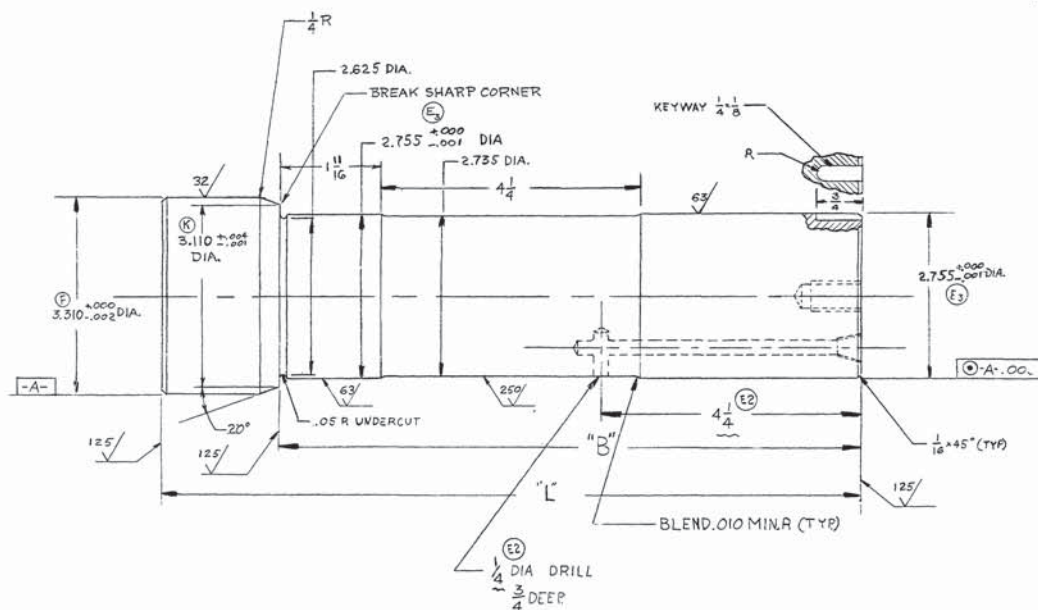
52-D-110-1	2	52-D-110-5	BAR	1/2 X 1/2 X 11	SEE NOTE 11		
52-D-110-1	1	52-D-110-4	BAR	1/2 X 1/2 X 3 1/2	SEE NOTE 11		
52-D-110-1	2	52-D-110-3	ANGLE	1/2 X 1/2 X 11 1/2	SEE NOTE 10		
52-D-110-1	1	52-D-110-2	PLATE	1/2 X 2 1/2 X 11 1/2	SEE NOTE 9		
52-D-109	-	52-D-110-1	BRACKET				

NEXT ASSEMBLY	QTY. REQD.	PART NUMBER	DESCRIPTION	STOCK SIZE	MATERIAL	MATERIAL SPEC.	UNIT WT.	ZONE
LIST OF MATERIALS								
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			DRAWN	C.C.MICOVES	5 JULY 62	E. W. BLISS COMPANY		
TOLERANCES ON FRACTIONS DECIMALS ANGLES			CHECKED	J.H.B.	7 AUG 62	ENGINEERING RESEARCH & DEVELOPMENT DIVISION		
± 1/16 ± .005 ± 1/2°			DESIGN	P.R.	7 AUG 62	SWARTHMORE, PENNA.		
MECHANICAL FINISH SURFACE ROUGHNESS IN MICROINCHES			ANALYZED	W.S.P.	7 AUG 62	TITLE		
V = THIS SYMBOL ENCOMPASSES THE SURFACE ROUGHNESS (OR MICROINCHES) REPRESENTS THE MAXIMUM ACCEPTABLE ROUGHNESS AND MAY BE PRODUCED BY ANY MECHANICAL PROCESS.			PROJ. ENG.	W.S.P.	7 AUG 62	BRACKET TAPE BRUSH		
APPROVED			DATE	17-9-71	GAGE	21439	REV	J
APPROVED			DATE		21439	D	52-D-110	
SCALE FULL			SHEET					

NOTES:

1. BREAK ALL SHARP EDGES
2. HEAT TREAT TO BRINELL 311 TO 321 (PER MIL-H-6815)
3. DRILL CENTERS OPTIONAL
4. 3. CADMIUM PLATE PER QQ-P-416 a, CLASS 3 TYPE 1
5. ALL THDS SHALL BE IN ACCORDANCE WITH FED-STD-H28/2
7. MARKING AND IDENTIFICATION PER MIL-STD-130
8. 3. DESIGN ULTIMATE TENSILE STRENGTH 150,000 PSI
10. INTERPRET THIS DWG PER MIL-STD-100
11. MATL. PER MIL-S-5000, CONDITION B & D, STEEL ROUND (4340) 3 1/2 DIA. STX.
12. SURFACE TEXTURE PER ANSI B 46.1-1978.

REVISIONS				
REV.	ZONE	DESCRIPTION	DATE	APPROVED
(A)		ADDED TAB BLOCK E-2 RLY	10-4-62	
B		(1) REMOVE NOTE 4	12-4-62	D.T.R.
C		ADDED NOTE T	12-4-62	B.G.
D		3/16 DIA. DRILL WAS 1/8 DIA. 3.312 DIA.	10-1-62	W.K.
E		(1) ADDED NOTE B (2) OIL HOLE WAS 3/16 + 5/64 DEEP (3) 2.755 DIA WAS 2.7559 DIA	9-11-62	G.H.R.
F		CHANGED DIM 3.312 TO 3.310 DIA PER E.C.D. NO. LR0006	5-25-74	H.P.
G		REMOVED NOTE B	9-5-78	C.S.T.
H		ADDED NOTE 10	9-5-78	C.S.T.
J		1/8 DIA. WAS 1/16 DIA. DR. REMOVED 1/16 DIA. DR. 3.110 DIA. CHAMFER	9-5-78	C.S.T.
K		NOTE 6 WAS PER HANDBOOK H28 & MIL-STD 9 ADDED NOTES 11 & 12. MATL. WAS STL 4340 MATL. SPEC WAS Q-S-5-624.	7-12-79	W.R.G.



CONTRACT NO. F41608-80-G-0037-0029
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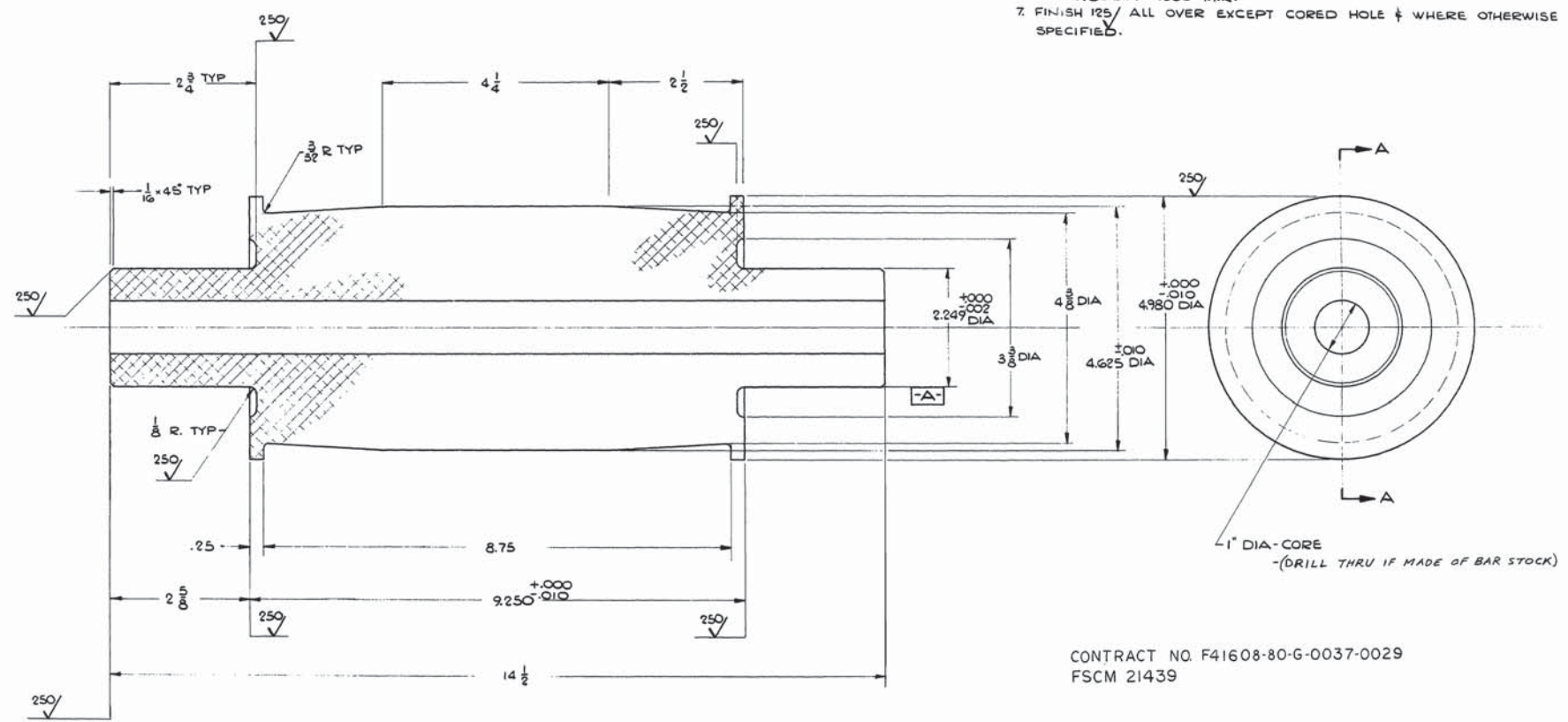
A	DASH NO.	10 ±.005	12 ±.005
-1	9.562	11 1/2	
-2	9.952	12 3/4	

52-D-128-9	52-D-128-2	SHAFT (SEE NOTES 2 & 9)	SEE NOTE 11						
52-D-128-1	52-D-128-1	SHAFT (SEE NOTES 2 & 9)	SEE NOTE 11	223					
QTY.	ASSEMBLY	REQD.	PART NUMBER	DESCRIPTION	STOCK SIZE	MATERIAL	MATERIAL SPEC.	UNIT	ZONE
LIST OF MATERIALS									
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					DRAWN J.R. FUSTO 5-22-62				
TOLERANCES ON FRACTIONS DECIMALS ANGLES 1/32 ±.010 ±.125					CHECKED B.G. 8-11-62				
(SEE NOTE 5)					DESIGN				
MECHANICAL FINISH SURFACE ROUGHNESS IN MICROINCHES					ANALYZED F.S. 5-19-74				
V = THIS SYMBOL EMBRACING THE SURFACE ROUGHNESS (IN MICROINCHES) REPRESENTS THE MAXIMUM ACCEPTABLE ROUGHNESS AND MAY BE PRODUCED BY ANY MECHANICAL PROCESS					PROJ. ENG. F.S. 5-18-74				
APPROVED [Signature]					DATE 5-18-74				
APPROVED [Signature]					DATE 5-18-74				
E. W. BLISS COMPANY ENGINEERING RESEARCH & DEVELOPMENT DIVISION SWARTHMORE, PENNA.					TITLE SHAFT TAPE SHEAVE				
D 52-D-128					K				
SCALE FULL					SHEET				

6 5 4 3 2 1

- NOTES:
1. BREAK ALL SHARP EDGES.
 2. MATERIAL IS NOMINAL SIZE WITHOUT MANUFACTURING ALLOWANCE.
 3. FINISH PER.

4. HARDCOAT PER MIL-W-8625 - EXCEPT ALL INSIDE DIAMETERS.
5. MARKING & IDENTIFICATION PER MIL-STD-130
6. CONCENTRICITY IN RELATION TO -A- DIA AS FOLLOWS:
 $4\frac{3}{8}$ DIA .005 T.I.R.
 4.625 DIA .005 T.I.R.
 4.980 DIA .005 T.I.R.
7. FINISH 125/ ALL OVER EXCEPT CORED HOLE & WHERE OTHERWISE SPECIFIED.



SECTION A-A

CONTRACT NO. F41608-80-G-0037-0029
FSCM 21439

② ALTERNATE MATERIAL MAY BE BAR STOCK
ALUM. ALLOY 6061-T6 QQ-A-225/8

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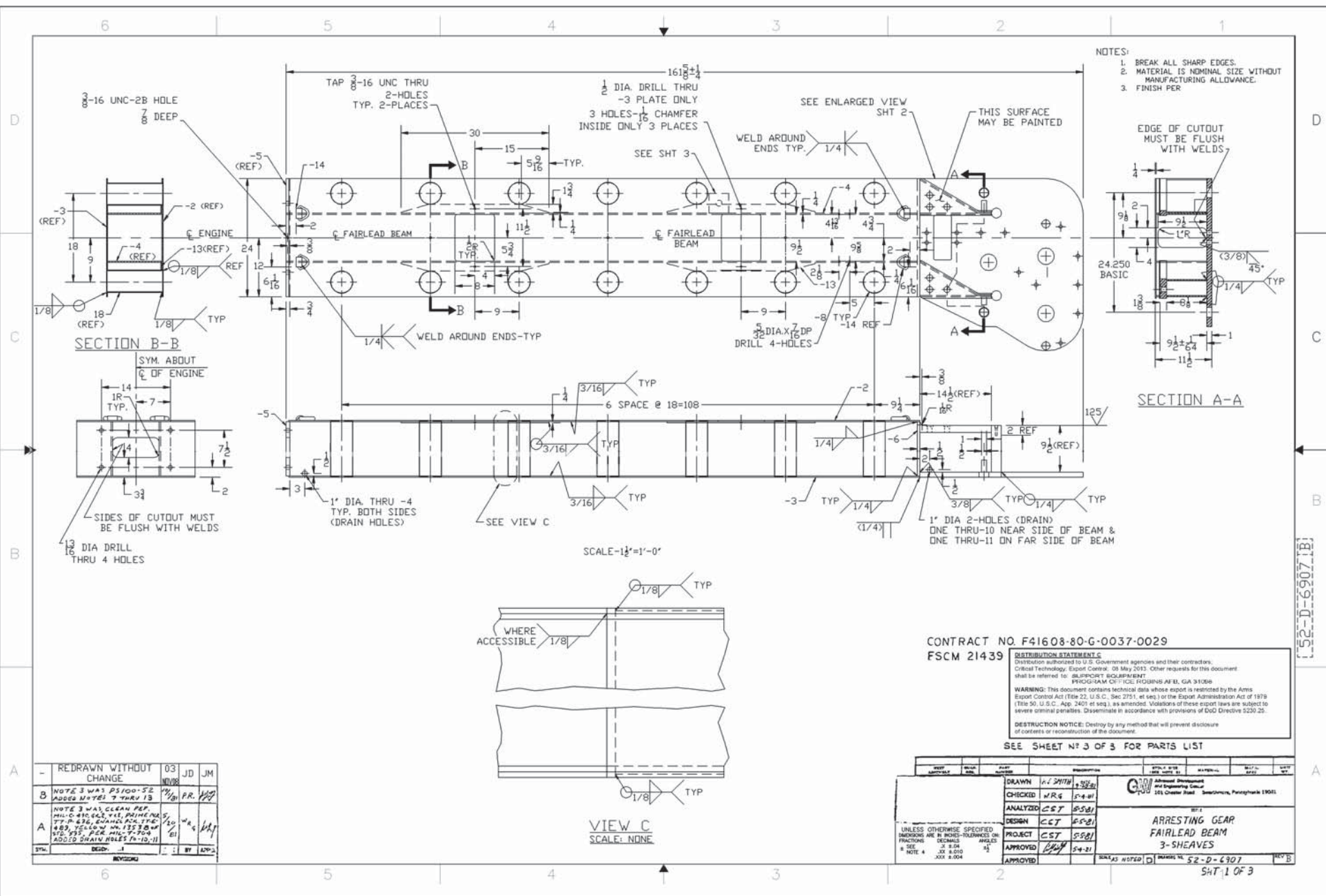
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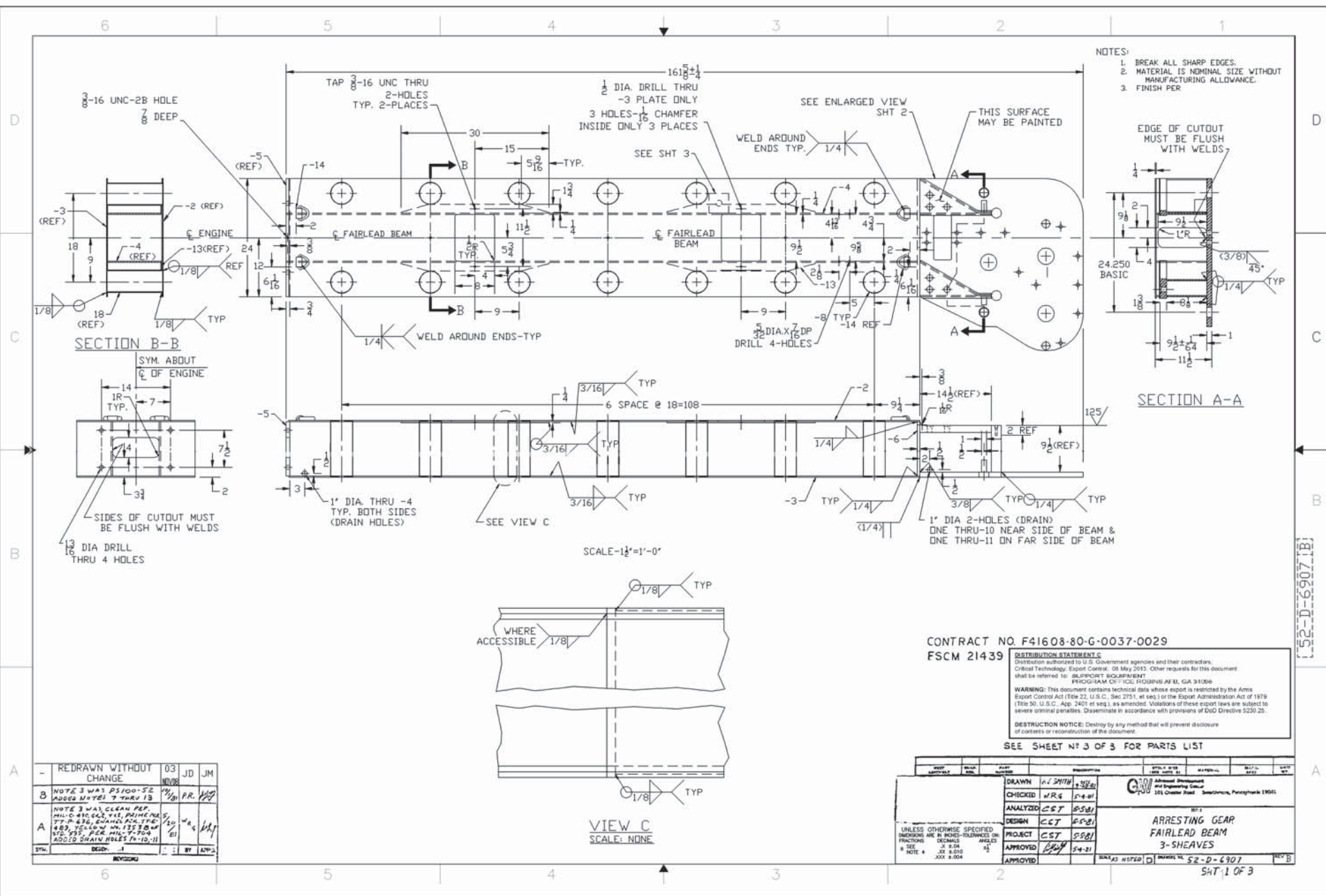
SYN	DESCRIPTION	REVISIONS	DATE	BY	APPD.
A	ADDED ALTERNATE MATL.	7-28-84	FC	AP	

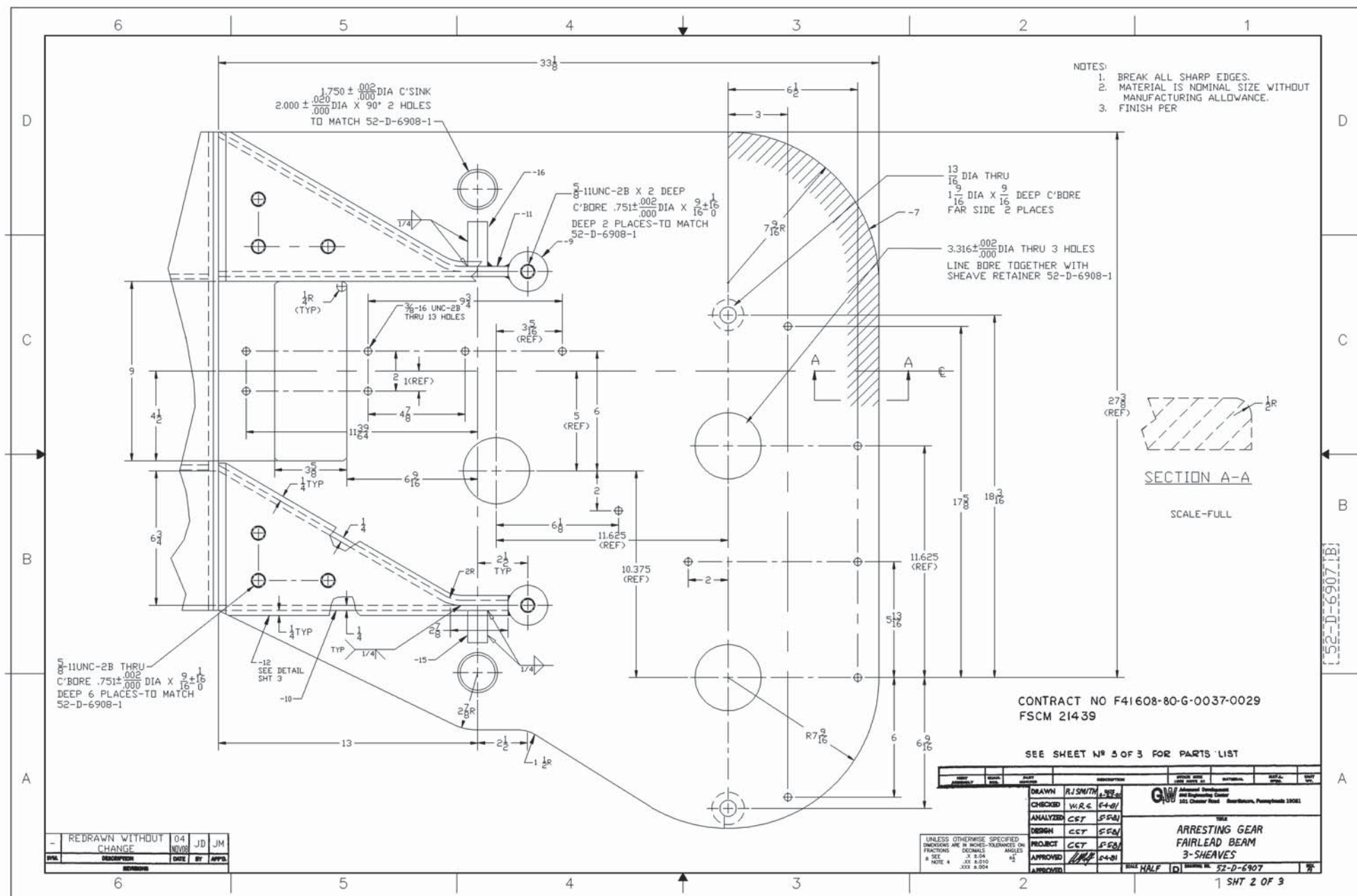
52-D-641-1 SHEAVE		CASTING AL. ALLOY 6061-T6	
DATE	DATE	DATE	DATE
12-15-64	12-15-64	12-15-64	12-15-64
DRAWN	C. HEARN	CHECKED	GW
ANALYZED	F. S.	DESIGN	F. S.
PROJECT	F. S.	APPROVED	GW
APPROVED	GW	APPROVED	GW
TITLE		SHEAVE FAIRLEAD REAR BAK-12, ARRESTING ENG.	
SCALE		FULL ID	
DRAWING NO.		52-D-641	

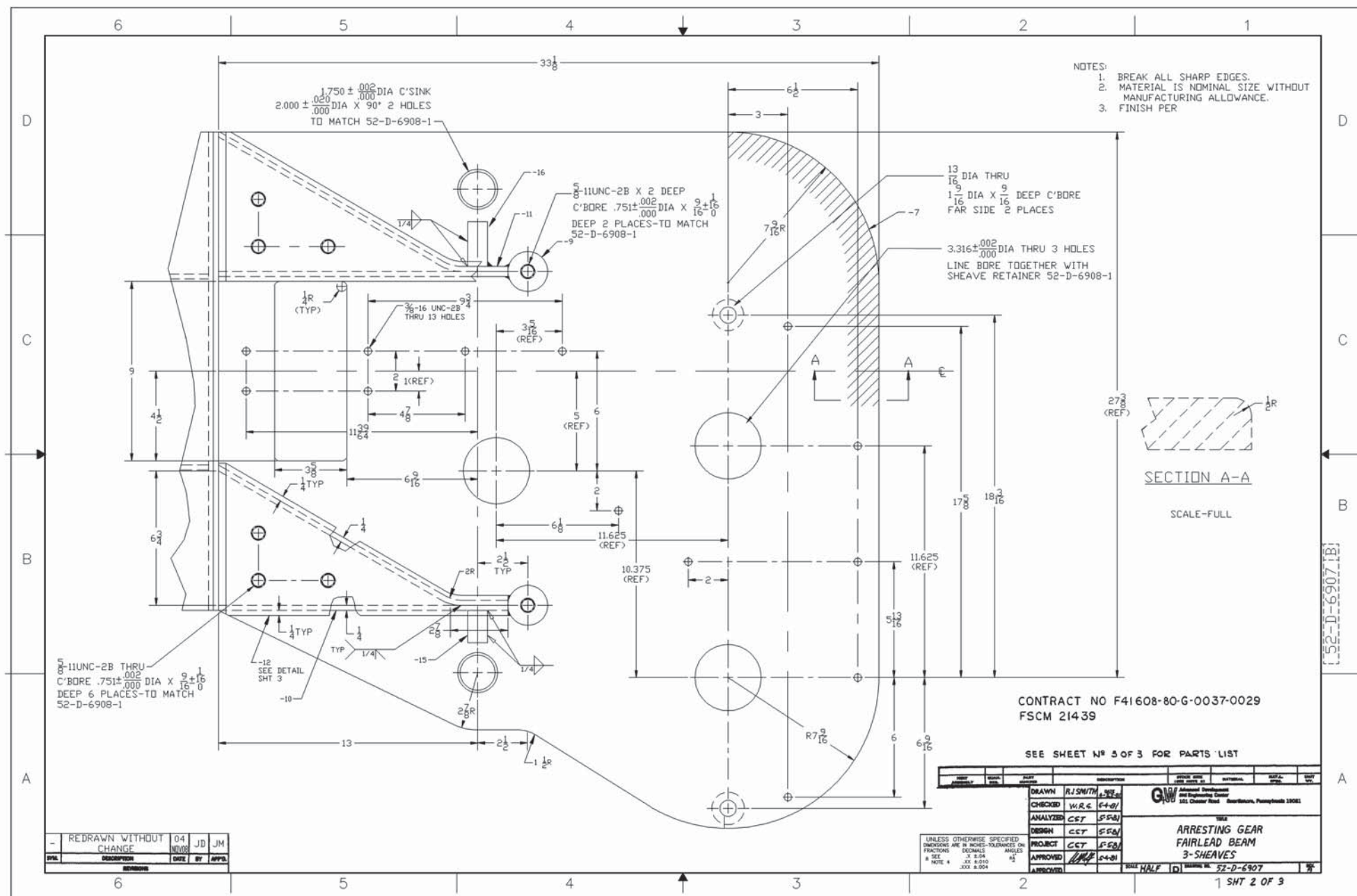
6 5 4 3 2 1

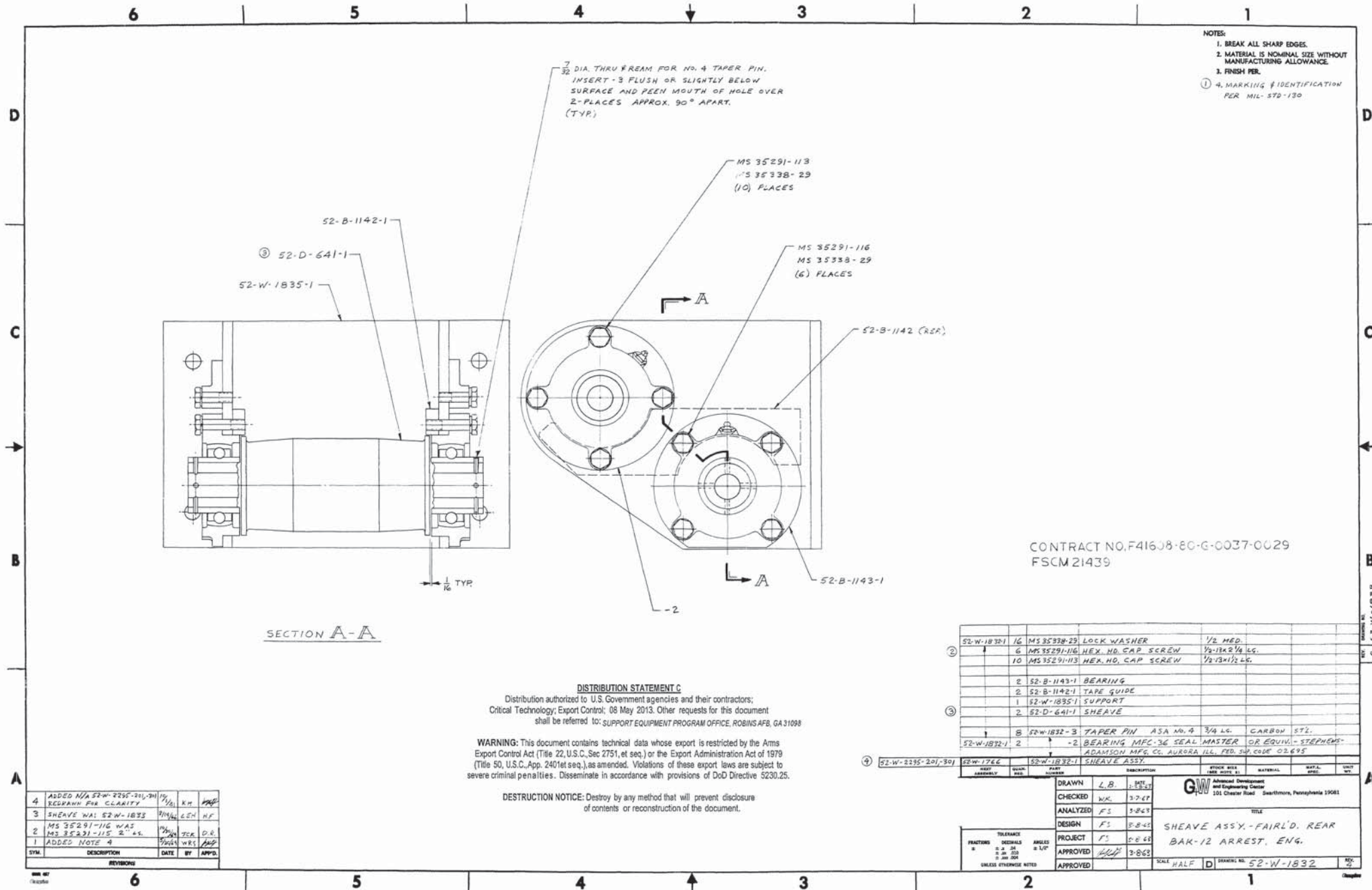


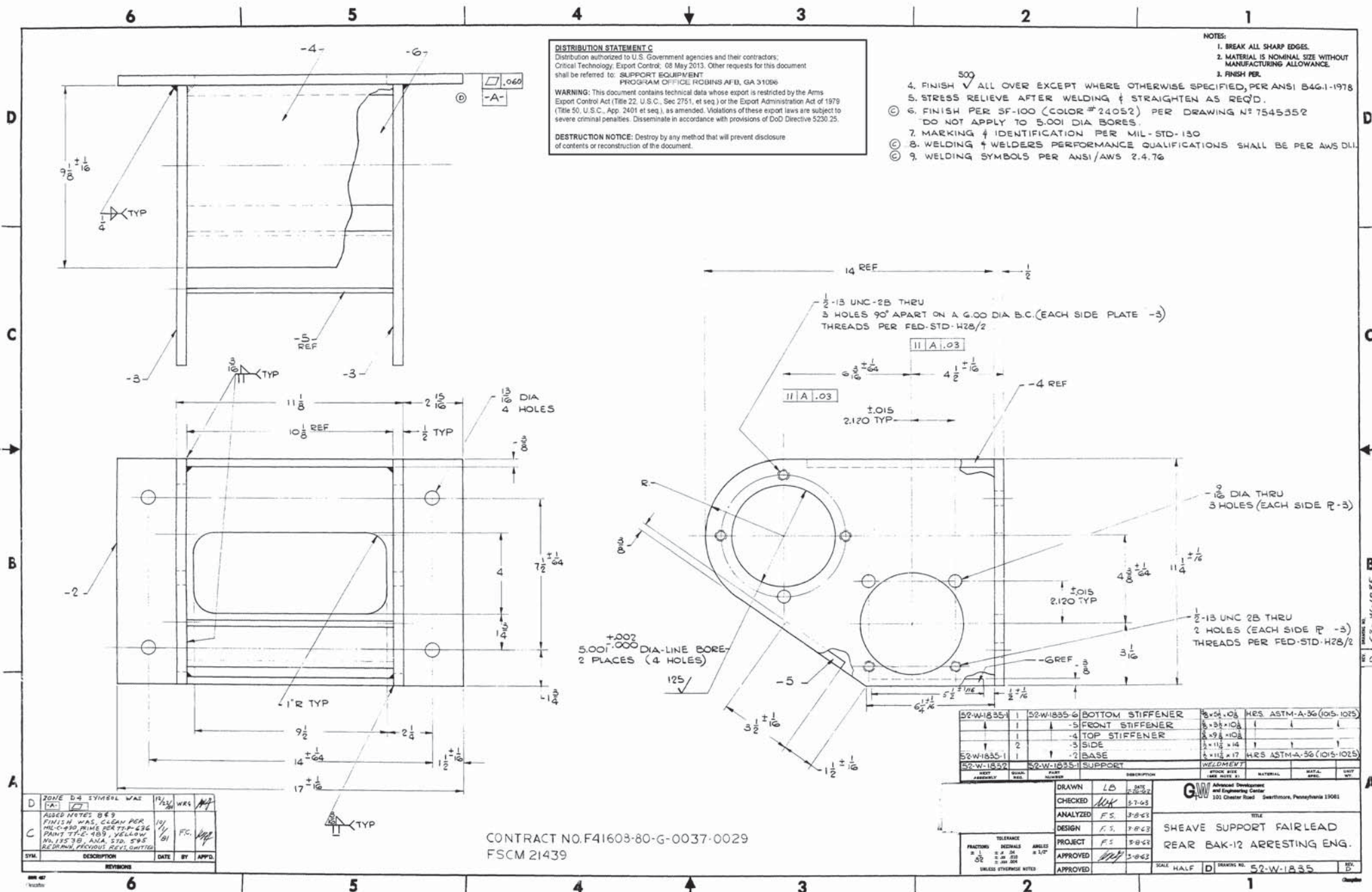
52-D-6907 B



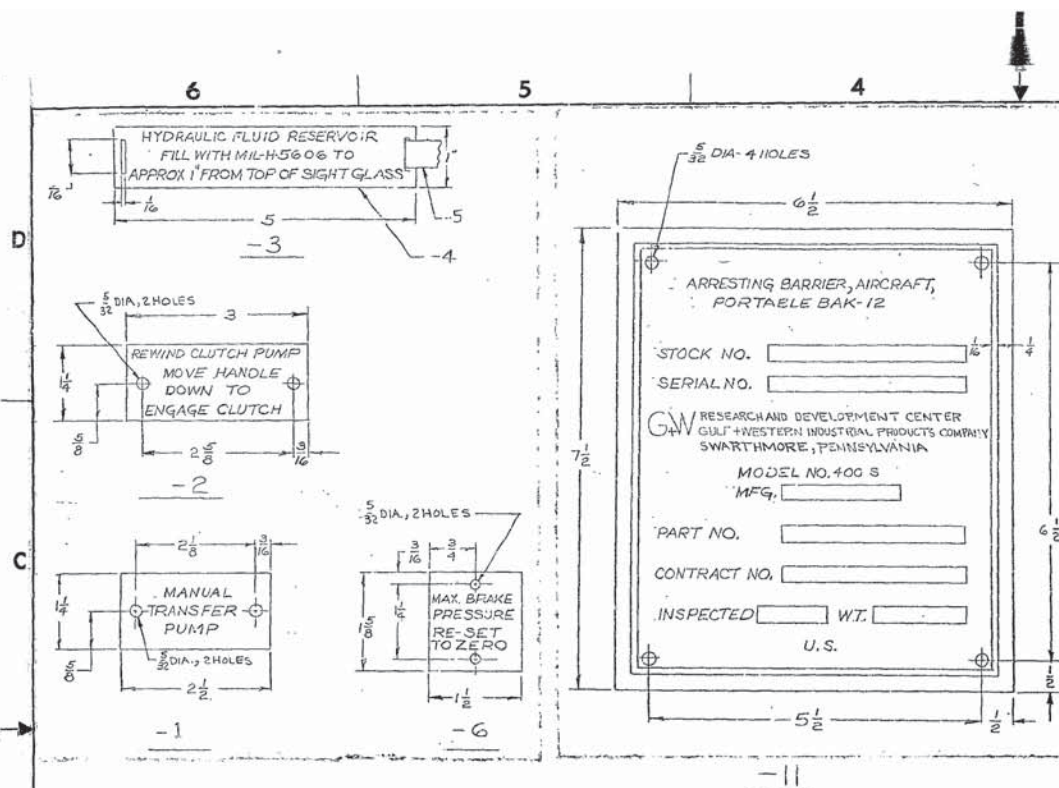








CONTRACT NO. F41603-80-G-0037-0029
FSCM 21439



- NOTES:
1. BREAK ALL SHARP EDGES.
 2. MATERIAL IS NOMINAL SIZE WITHOUT MANUFACTURING ALLOWANCE.
 3. FINISH PER _____
 4. LETTERS & FIGURES TO BE NATURAL ALUMINUM COLOR ETCHED ON A BLACK BACKGROUND
 5. MATERIAL, LETTERING, ETC./MUST COMPLY WITH MIL-P-8906-B (NOTICE 2)
 6. MARKING & IDENTIFICATION PER MIL-STD-130
 7. INTERPRET THIS DWS. PER MIL-STD-100
 8. -24 NAME PLATE TO HAVE RED BACKGROUND

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52W-1836-23	1	52W-1836-24	NAME PLATE	020X1 1/2 X 3	AL ALY 5052-H34	QQ-A-250/B	SEE NOTE 8
52W-1836-23	1	-5	BAND CLAMP 9/8 DIA	No 7110	MARMAN DIV. AEROSPACE CORP. LOS ANGELES CALIF		
52W-2291-80		-23	NAME PLATE ASSY	050X3 1/2 X 5	AL ALY 5052-H34	QQ-A-250/B	
52W-1080-1		-22	NAME PLATE	020X1 1/2 X 3	AL ALY 5052-H34	QQ-A-250/B	
52E-930		-21	NAME PLATE	020X1 1/2 X 3	AL ALY 5052-H34	QQ-A-250/B	
52W-2295-1		-19	NAME PLATE	020X1 1/2 X 3	AL ALY 5052-H34	QQ-A-250/B	
52W-1836-17	1	-5	BAND CLAMP 9/8 DIA	No 7110	MARMAN DIV. AEROSPACE CORP. LOS ANGELES CALIF		
52W-1836-17	1	-18	NAME PLATE	No 7110	MARMAN DIV. AEROSPACE CORP. LOS ANGELES CALIF		
52W-2291-80		-17	NAME PLATE ASSY	050X3 1/2 X 5	AL ALY 5052-H34	QQ-A-250/B	
52W-2288-65		-16	NAME PLATE	020X1 1/2 X 3	AL ALY 5052-H34	QQ-A-250/B	
52W-2295		-15	NAME PLATE	050X3 1/2 X 5	AL ALY 5052-H34	QQ-A-250/B	
52W-1836-12	1	-5	BAND CLAMP 9/8 DIA	No 7110	MARMAN DIV. AEROSPACE CORP. LOS ANGELES CALIF		
52W-1836-12	1	-13	NAME PLATE	020X1 1/2 X 3	AL ALY 5052-H34	QQ-A-250/B	
52W-2291-80		-12	NAME PLATE ASSY	050X3 1/2 X 5	AL ALY 5052-H34	QQ-A-250/B	
52W-2291-80		-11	NAME PLATE	050X3 1/2 X 5	AL ALY 5052-H34	QQ-A-250/B	
52E-930-2		-6	NAME PLATE	020X1 1/2 X 3	AL ALY 5052-H34	QQ-A-250/B	
52W-1836-3	1	-5	BAND CLAMP 9/8 DIA	No 7110	MARMAN DIV. AEROSPACE CORP. LOS ANGELES CALIF		
52W-1836-3	1	-4	NAME PLATE	020X1 1/2 X 3	AL ALY 5052-H34	QQ-A-250/B	
52W-2291-80		-3	NAME PLATE ASSY	050X3 1/2 X 5	AL ALY 5052-H34	QQ-A-250/B	
52W-2288-65		-2	NAME PLATE	020X1 1/2 X 3	AL ALY 5052-H34	QQ-A-250/B	
52W-2295-7		-1	NAME PLATE	020X1 1/2 X 3	AL ALY 5052-H34	QQ-A-250/B	

FSCM

FSCM 21439

CONTRACT NO. F41603-80-G-0037-0029

PROJECT
APPROVED

REID
APPROVED

NAME PLATES
BAK-12 ARRESTING ENGINE

52W-1836

1 SHEET 1 OF 2

REV	DESCRIPTION	DATE	BY	APPD.
10	1. 10-18-178 P.1. HAS 140 P.1.			
9	ADDED - 91. ADDED - 8 (NOTE 2) 79 MIL-D-6906 IN NOTE 5 ADDED LETTER SIZE 70-14			
8	ADDED - 73 E-24			
7	REDRAWN SHOWING ONLY NAME PLATES IN USE			

6

5

4

3

2

1

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NOTES:

1. REMOVED.
2. REMOVED.
3. FINISH PER PS100-66.
4. FINISHED SURFACES & SURFACES IN CONTACT WITH THE TAPE ARE NOT TO BE PAINTED, UNLESS OTHERWISE SPECIFIED.
5. SPACER ITEM 12, 52B9905-1 TO BE FURNISHED BUT NOT INSTALLED.
6. REMOVED.
7. REMOVED.
8. IDENTIFY IN ACCORDANCE WITH MIL-STD-130 AS 21439-ASSY 52W2295-APPROPRIATE DASH NO. PER AMES-3040-102 ON NAMEPLATE ITEM 26, 52W1836-14.
9. TIGHTEN ITEM 35 (8 PLACES) TO 120 ± 12 FT. LB.

ITEM NO.		QUANTITIES	W/ REAR SHEAVE ASSY. (OPPOSITE HAND)		W/ REAR SHEAVE ASSY. EXPEDITIONARY INSTL.		W/ REAR SHEAVE ASSY. SEM-PERMANENT INSTL.	
PART NO.		DESCRIPTION	1	2	3	4	5	6
52W2295	1	FAIRLEAD UNIT ASSEMBLY	1	1	1	1	1	1
52B1367-1	1	CENTER TAPE GUIDE	1	1	1	1	1	1
52B1367-2	1	CENTER TAPE GUIDE	1	1	1	1	1	1
52B1066-1	1	INSPECTION COVER	1	1	1	1	1	1
52B1368-1	1	SPACER	1	1	1	1	1	1
52B1422-1	1	ALIGNMENT PIN	1	1	1	1	1	1
52B1422-2	1	ALIGNMENT PIN	1	1	1	1	1	1
52B9905-1	1	SPACER, ANCHOR BOLT	1	1	1	1	1	1
152A1896-1	1	OUTER TAPE GUIDE	1	1	1	1	1	1
52C905-1	1	SHEAVE ASSEMBLY	1	1	1	1	1	1
52C1377-1	1	PIN, EARTH ANCHOR LINK	1	1	1	1	1	1
52C7028-1	1	TAPE GUIDE	1	1	1	1	1	1
52C7025-1	1	TAPE GUIDE	1	1	1	1	1	1
52C7025-2	1	TAPE GUIDE	1	1	1	1	1	1
52D6907-18	1	FAIRLEAD BEAM, 3 SHEAVES (OPPOSITE HAND)	1	1	1	1	1	1
52D6908-2	1	RETAINER, SHEAVE, 3 SHEAVES (OPPOSITE HAND)	1	1	1	1	1	1
52W1832-1	1	SHEAVE ASSEMBLY FAIRLEAD, REAR	1	1	1	1	1	1
52W2294-1	1	FAIRLEAD BEAM, 2 SHEAVES	1	1	1	1	1	1
52W2298-1	1	RETAINER, SHEAVE, 2 SHEAVES	1	1	1	1	1	1
52W1836-14	1	NAMEPLATE	1	1	1	1	1	1
52D6907-1	1	FAIRLEAD BEAM, 3 SHEAVES	1	1	1	1	1	1
52D6908-1	1	RETAINER, SHEAVE, 3 SHEAVES	1	1	1	1	1	1
52D109-1	1	TAPE BRUSH ASSEMBLY	1	1	1	1	1	1
00864-001A	1	RIVET, BLIND (Ø.125 X .250 MAX. GRIP, HEAD Ø.25)	1	1	1	1	1	1
70003-050	1	WELDLESS SLING, LINK (1.375)	1	1	1	1	1	1
70009-058	1	ADHESIVE THREADED LOCKER (1 OZ.)	1	1	1	1	1	1
04905-001	1	SCREW, SHOULDER, SOC. HD. (.750 NOM. X .6250-11 UNC-3A X 1.500 LG.)	1	1	1	1	1	1
16282-009	1	SCREW, CAP, BH, SOC, SELF-LOCKING (.375-16 UNC-3A X 1.00 LG.)	1	1	1	1	1	1
MS51967-23	1	NUT, PLAIN, HEX HD. (.750-10 UNC-2B)	1	1	1	1	1	1
MS35338-46	1	WASHER, LOCK-SPRING, HELICAL (.375 NOM.)	1	1	1	1	1	1
MS35338-51	1	WASHER, LOCK-SPRING, HELICAL (.750 NOM.)	1	1	1	1	1	1
MS90725-59	1	SCREW, CAP, HEX HD. (.375-16 UNC-2A X .875 LG.)	1	1	1	1	1	1
MS90725-64	1	SCREW, CAP, HEX HD. (.375-16 UNC-2A X 1.50 LG.)	1	1	1	1	1	1
MS90725-109	1	SCREW, CAP, HEX HD. (.500-13 UNC-2A X 1.00 LG.)	1	1	1	1	1	1
MS90725-187	1	SCREW, CAP, HEX HD. (.750-10 UNC-2A X 2.00 LG.)	1	1	1	1	1	1
MS90725-191	1	SCREW, CAP, HEX HD. (.750-10 UNC-2A X 3.00 LG.)	1	1	1	1	1	1

ENGINEERED ARRESTING SYSTEMS CORP. ASTON, PENNSYLVANIA, U.S.A.

FAIRLEAD UNIT ASSEMBLY

52W2295

REV N

DATE 10/16/01

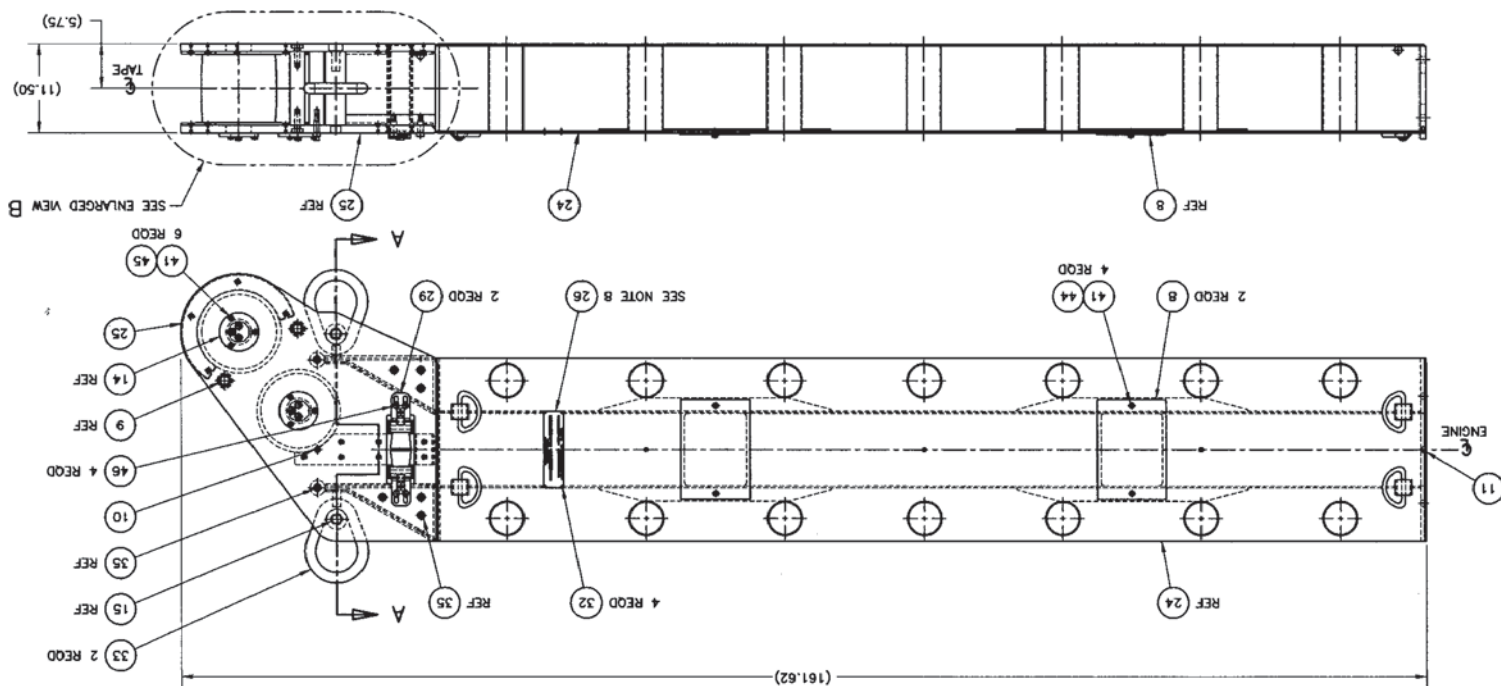
APPROVED DMS

ECO B432

REVISION HISTORY

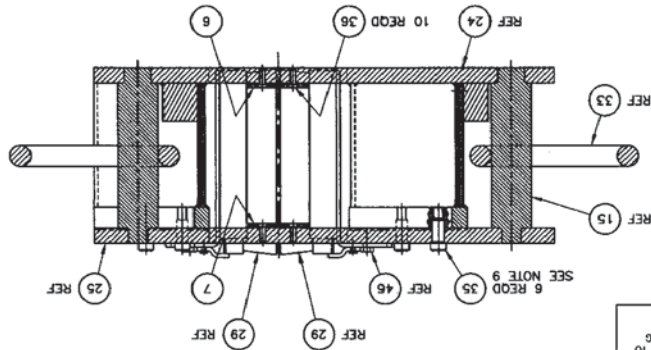
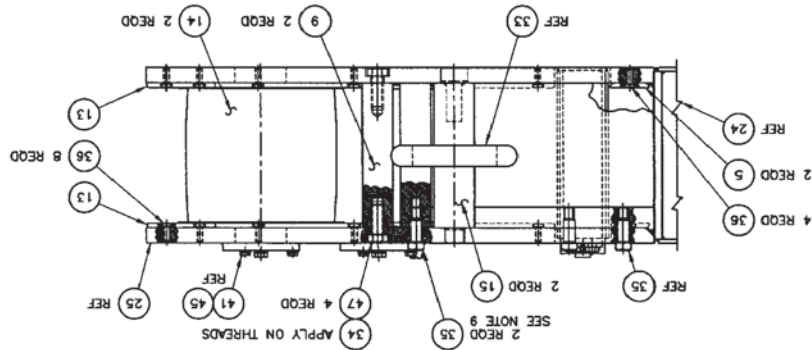
REV	DESCRIPTION
1	REWORK ON CAD WITH CHANGES TO SECT. C-C & VIEW D. REMOVED NOTES 1 & 2. ADDED NOTE 8 M/C/

REV	2	DATE	1/6	SCALE	1/8	DRG NO.	52W2295	FILE NO.	52W2295SH2N	SHEET	2
DATE	1/6	SCALE	1/8	DRG NO.	52W2295	FILE NO.	52W2295SH2N	SHEET	2		



VIEW B
SCALE: 1/4

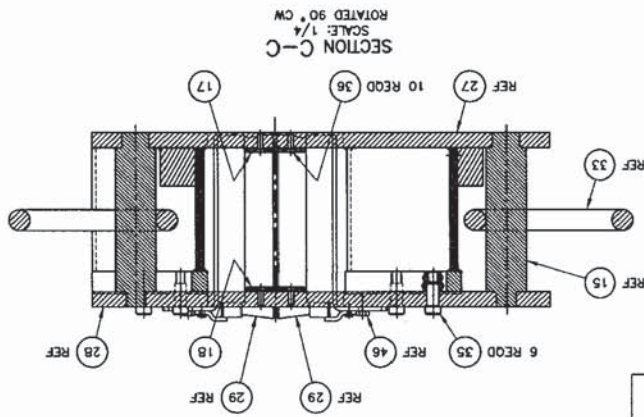
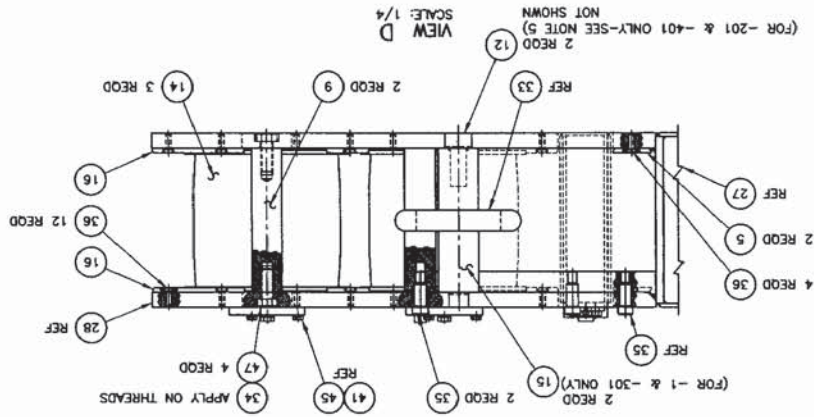
SECTION A-A
SCALE: 1/4



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REV	2	DATE	1/6	DESCRIPTION	SEE SHEET 1
DATE	1/6	DESCRIPTION	SEE SHEET 1		

DRG NO.	52W2295	SH	2	REV	2
DRG NO.	52W2295	SH	2	REV	2



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NOTES

1 REMOVE BURRS & SHARP EDGES

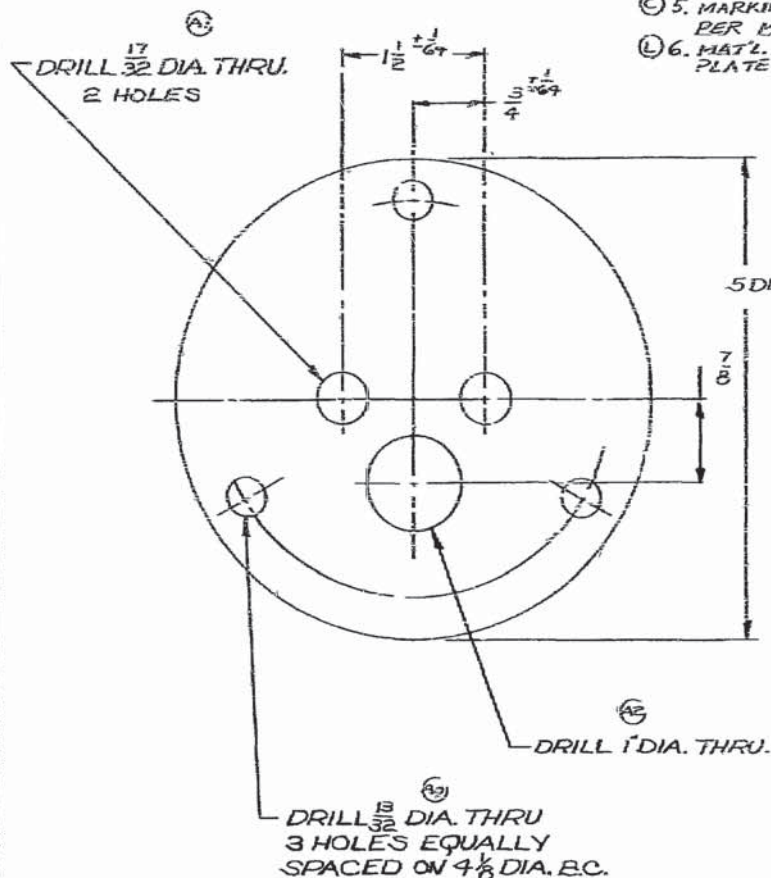
(U) 2
(K) 3

(E) 4. FINISH PER SF 100 (COLOR 24052)

PER DRAWING NO. 7545352.

(C) 5. MARKING AND IDENTIFICATION
PER MIL-STD-130.

(L) 6. MAT'L PER AS'N-A-36, 1/2 THK. STEEL
PLATE (1018) COLD ROLLED.



REVISIONS				
SYM.	DATE	DESCRIPTION	DATE	APPROVED
A		(1) 1/32 DIA. WAS .531 DIA. (2) 1/32 DIA. WAS 1.000 DIA. (3) 1/32 DIA. WAS .406 DIA. (4) ADDED NOTES 3 & 4	3/07	WILEY
B		(1) DELETED NOTE 2		
C		ADDED NOTE 5		
D		ADDED GRADE 2 TYPE II TO NOTE 4	9-8	W.R.G.
E		ADDED .5047 DIA. HOLE	9-8	E.T.
F		ADDED .256 DIA. HOLE	9-8	E.T.
G		DELETED .5047 DIA. THRU HOLE AND .256 DIA. X 3/8 DEEP HOLE	9-14-70	W.A.N.
H		REMOVED DATUM A & B, REVISED TITLE. ADDED TOI.	7/18/80	CST
J		NOTE A WAS, CLEAN PER MIL-C-430, GR. 2, D.I. PRIME PER IT-P-636, EVANER PER DYE 489, YELLOW NO. 15538 OF STD 595, PER MIL-T-7-4	5/20/81	W.R.G.
K		DELETED NOTE 3, WAS WHEN PART IS USED FOR BAK-12, FINISH MPR 1201-23 DOES NOT APPLY	7/31/81	W.R.G.
L		NOTE 4 WAS, PS 100-52, HALL WAS SER. 1-18, BAK SPEC. WAS, QRC-1433 ADDED NOTE 6	9/12/81	W.R.G.

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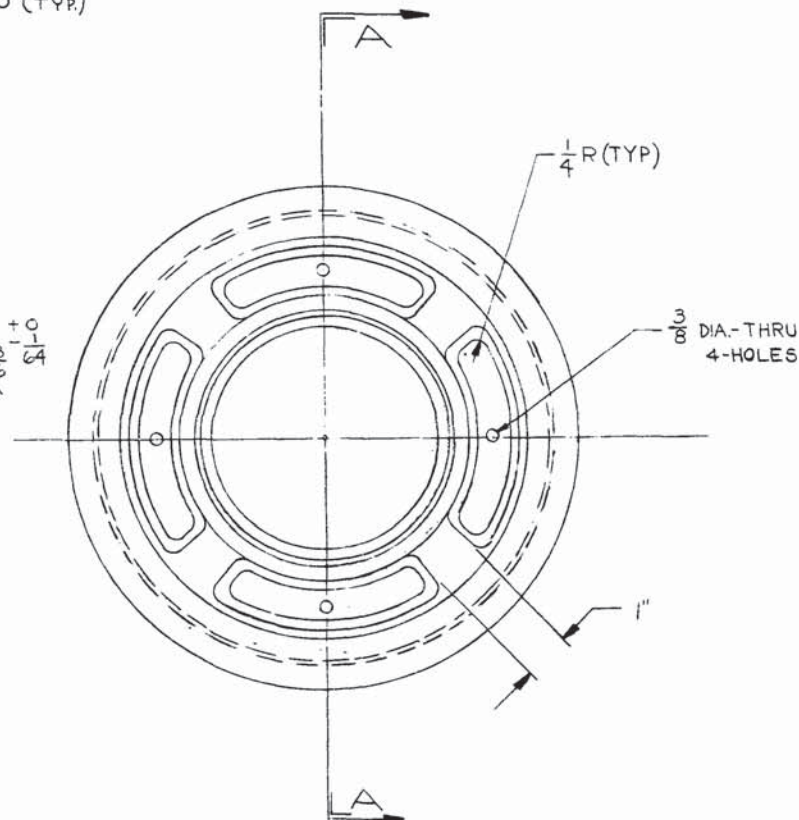
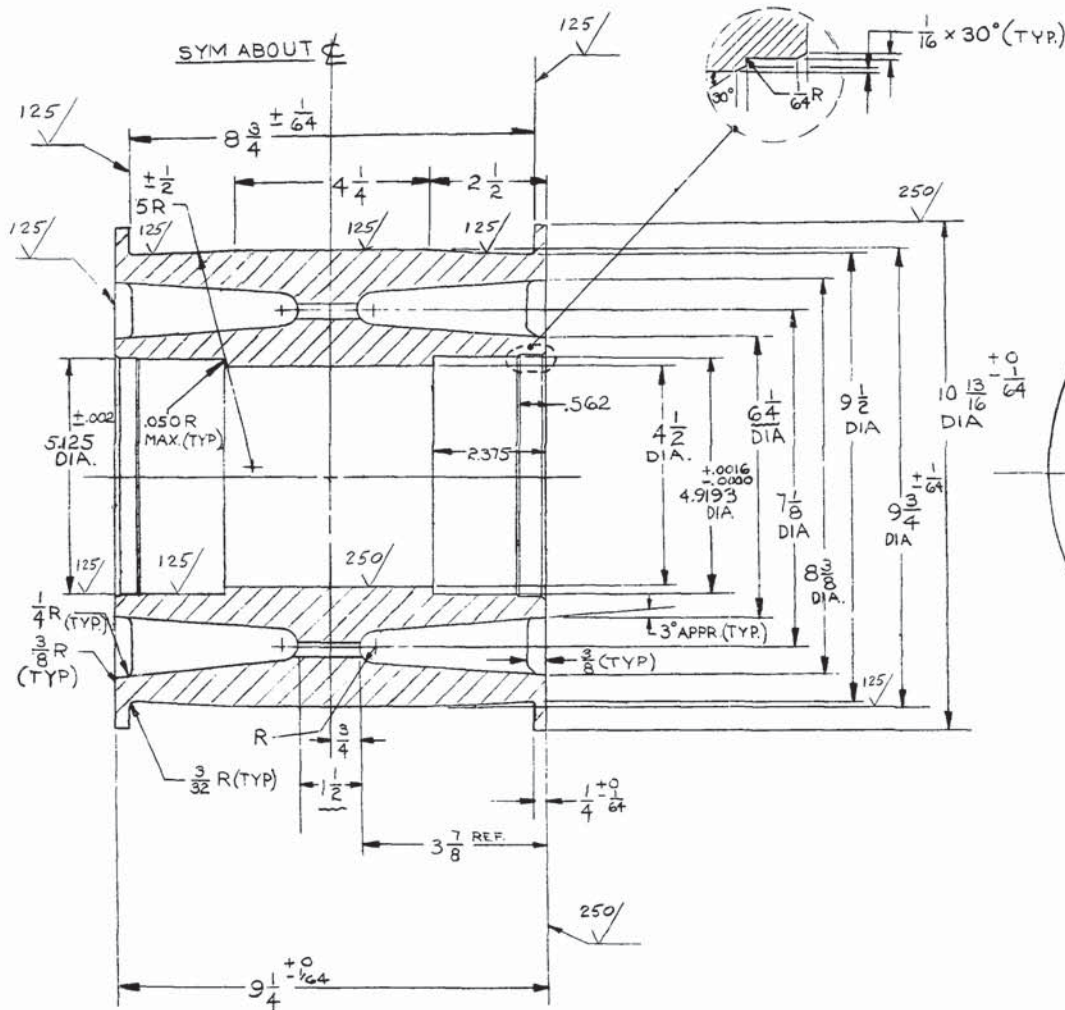
ESCM 21439

(L) 52-C-965	152-A-1267-1	END PLATE	SEE NOTE 6					
(L) 52-C-905	152-A-1267-1	END PLATE	SEE NOTE 6					
(L) 52-D-126	152-A-1267-1	END PLATE	SEE NOTE 6	278				
NEXT ASSEMBLY	QTY. REQD.	PART NUMBER	DESCRIPTION	STOCK QTY.	MATERIAL	MATERIAL SPEC.	UNIT WT.	ZONE
LIST OF MATERIALS					93466			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			DRAWN	J.M.D. 6-22-62	E. W. BLASS COMPANY			
TOLERANCES ON			CHECKED	H. J. 7-9-62	ENGINEERING RESEARCH & DEVELOPMENT DIVISION			
FRACTIONS DECIMALS ANGLES			DESIGN	P.R. 8-7-62	SWARTHMORE, PENNA.			
= 1/64 = .010 = 1/2°			ANALYZED	E.S.T. 7-30-62	TITLE			
MECHANICAL FINISH: CONTOUR			PROD. ENG.	W.A.N. 9-3-76	(H) PLATE, END			
SURFACES IN MICROINCHES			APPROVED	W.E. 9-24-76	TAPE SHEAVE			
V = THIS SYMBOL EXCLUDING THE SURF FACE NOTATIONS ON MICROINCHES REPRESENTS THE SURFACE AS SHOWN ON ALL DIMENSIONS AND MUST BE PRO- CESSED BY ANY MECHANICAL PROCESS			APPROVED	DATE	CAGE	SIZE	DRAWING NO.	SHEET
					21439	C	152-A-1267	1 OF 1

- ⑤ 5. MAT'L PER QQ-A-601, A 356-76
AL. ALY. SAND CASTING.
⑥ 6. SURFACE TEXTURE PER ANSI B 46.1-1978,

NOTES:

1. BREAK ALL SHARP EDGES.
2. TOLERANCES ON FRACTIONAL DIMENSIONS $\pm \frac{1}{32}$
UNLESS OTHERWISE SPECIFIED.
③ 3. HARD COAT PER MIL-W-8625, TYPE III EXCEPT
① ALL INSIDE DIAMETERS
4. MARKING & IDENTIFICATION PER MIL-STD-130



CONTRACT NO. F41608-80-G-0037-0029
FSCM 21439

SECTION A-A

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D	MAT'L WAS A 356-76. HARD COAT WAS MIL-STD 171 R- 7.5-.002, ADDED NOTES 5 & 6	9/23/01	WRS	1/21/01
REVISIONS				

52-C-965	152-A-1709-1	SHEAVE	CASTING	SEE NOTE 5					
52-6905-1	152-A-1709-1	SHEAVE	CASTING	SEE NOTE 5					
NEXT ASSY	NO REQ PER ASSY	PART NO	DESCRIPTION	STOCK	MAT'L	MAT'L SPEC	HEAT TREAT SPEC	DESIGN M/T-5 P51	FINISH CALCW
CONTINUED AT LEFT					FINISH DIMENSION TOLERANCES $\pm .010$ - UNLESS OTHERWISE SPECIFIED				
ADDED NOTE 3					NO DEVIATION FROM PRINT WITHOUT APPROVAL OF ENGINEERING DEPARTMENT				
REMOVED NOTE 2					DECK SHEAVE				
HARD COAT PER MIL-STD 171 R-7.5-.002 EXCEPT					DWG. 152-A-1709				
ALL INSIDE DIA					REV. D				
1. 4.9193 DIA. BOTH SIDS					BAK-12/BAK-13 ARRESTING GEAR				
CHANGE					E. W. BLISS CO.				
OZALID FROM					U.S.A.				

TO 35E8-2-5-1

TECHNICAL MANUAL

OPERATION AND MAINTENANCE INSTRUCTIONS

AIRCRAFT ARRESTING SYSTEM

MODEL BAK-12/E32A

Engineered Arresting Systems Corporation
AF41(608)37633

BASIC AND ALL CHANGES HAVE BEEN MERGED TO MAKE THIS A COMPLETE PUBLICATION.

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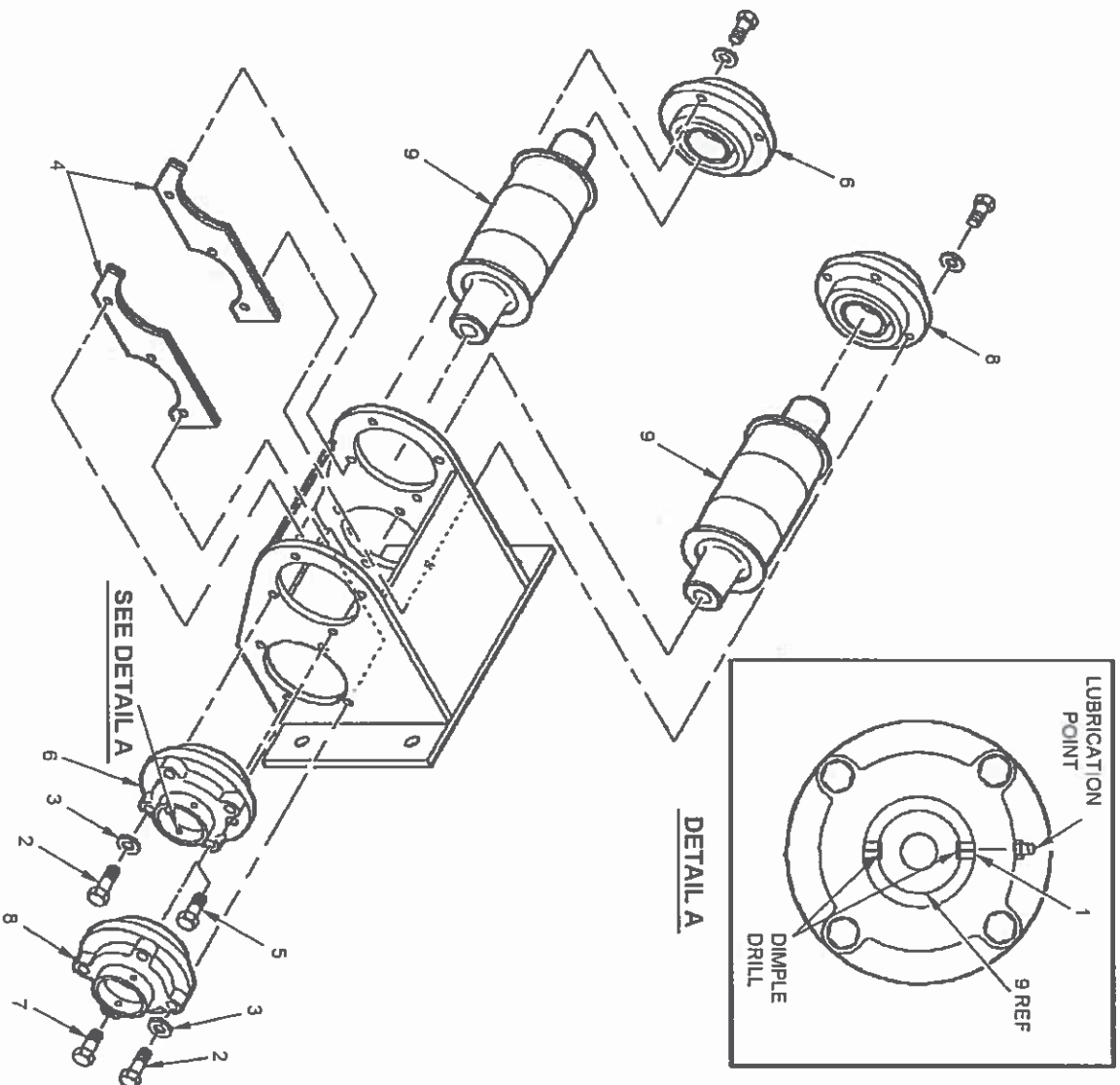
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13 OCTOBER 2014

CHANGE 1 - 21 JANUARY 2015



TO 35EB-2-5-1-084

Figure 5-11. Rear Sheaves and Tape Guides

5.62.3.3 Assembly. Refer to Figure 5-11.

- a. Insert sheave shafts (10) into rear sheave housing.
- b. Pack bearings with grease.
- c. Install bearings (7 and 9) onto shafts (10). Install cap screws (6 and 8) to secure bearings in place.

NOTE

The tape guides have threaded mounting holes. The mounting screws thread into these holes.

- d. Install tape guides (5) and install three hex head cap screws (3) and lock washers (4) to secure each tape guide in place.

NOTE

Two set screws shall be installed in each bearing to secure the inner race to the sheave shaft. Dimple drill sheave shaft (sized for set screw recess), and secure setscrew with threadlocker. See Detail A of Figure 5-11 for clarity. Minimum dimple drill depth 1/16-inch.

- e. Install set screws (1) onto bearing at each end of sheave shaft.

5.62.3.4 Installation. Refer to Figure 5-8.

- a. Position the rear sheave assembly (33) at the fairlead beam.
- b. Secure the rear sheave assembly into place by installing four each cap screws (30), lock washers (32), and nuts (31).

5.63 RUNWAY EDGE SHEAVE ASSEMBLY-REPAIR.

- a. Any small burrs, nicks, scratches, etc. found on the sheave housing may be removed using a half-round file.
- b. Repair of other components of the runway edge sheave assembly is limited to replacement of defective items. Disassemble the runway edge sheave in the order of the index numbers assigned on Figure 5-12. Disassemble the runway edge sheave until the defective component is free.
- c. If necessary, disassemble the sheave assembly per Paragraph 5.62.
- d. Replace the defective component.
- e. Reverse the disassembly order to reassemble the runway edge sheave. If the sheave assembly was disassembled, assemble the sheave assembly per Paragraph 5.62.2 prior to installation.
- f. Fill the sheave grease cavity with approximately 50 ounces of grease, per Table 5-3.
- g. Check sheave rollers for rotation by hand. When hand rotation is not possible, loop a length of nylon rope twice around the roller. Place tension on one end of the rope while pulling on the other end to achieve roller rotation.

5.64 TAPE GUIDES.

5.64.1 Replacement. The tape guides can be replaced without removing the runway edge sheave from its foundation. Refer to Figure 5-12.