REVISION			
REV	DESCRIPTION	DATE	APPROVED

B1-125-7
HORN

B1-400-15
EL. T.E.

B1-400-13
EL. SPAR

B1-400-9
STAB. T.E.

B1-330-21
SPICE PLATE TYP

B1-400-17
RIB

B1-400-11
STAB. SPAR

B1-400-19
SPLICE
TYP. 2 PLCS

B1-301-1
FUSE

B1-135-1
RUDDER
CABLE

B1-130-21 UPPER
-27 LOWER

BATTEN #2

BATTEN #1

B1-330-47/-48 OPP
T.E. ATTACH
CHAN. L.H.

B1-210-35 (-36 R.H)
T.E. SPAR L.H.

NOTE: USE EXTRA
CARE IN ASSEMBLING
AIL. -5 HORN
LOCATES AS SHOWN

B1-225-7
CLIP

B1-225-5
AIL. RIB TYP

B1-225-3
AIL T.E.

B1-210-47
FITTING

B1-125-5
HORN

B1-225-1
AIL. SPAR

B1-130-5
CABLE

B1-130-15
CABLE

B1-130-7
CABLE

FIT.
B1-120-13

B1-210-39
SPICE

B1-210-37
T.E. EXT. (-38 OPP)

B1-610-13
AIL. PUSHROD

B1-135-3
AIL. ACT.

B1-610-1
BELLCRANK
ASSY

B1-330-13
JUNCTION PLATE

B1-210-43
STRUT

B1-210-13
STRUT

B1-210-15
STRUT

B1-210-41
DIAG. STRUT

B1-130-3
CABLE

B1-130-9
CABLE

B1-130-1
CABLE

B1-310-7
STRUT

B1-130-17
CABLE

B1-130-11
CABLE

B1-210-21
STRUT

B1-210-23
ANGLE

B1-120-1
FITTING

B1-120-1
FITTING (TYP
BOTH ENDS)

B1-330-1/-101
SPAR MOUNTS

B1-210-45
FITTING

B1-210-17
INTERNAL
SPLICE

B1-210-3
L.E. EXT

B1-210-1
L.E. SPAR

B1-311-1
AXLE

B1-310-23
SWING ARM

B1-310-29
SHAFT

B1-125-3
PEDAL

-4

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES TOLERANCES: TENTHS ± .1 HUNDREDTHS ± .03 THOUSANDTHS ± .005 ANGLES: FORMED ± 2° MACH.: NOTED RIVET AND BOLT HOLE EDGE MARGINS ± .05	SCALE	ROBERTSON AIRCRAFT CORPORATION SNOHOMISH COUNTY AIRPORT NORTH COMPLEX BUILDING C-72 EVERETT, WASHINGTON 98204	DRAWING TITLE B1-RD REF TOP VIEW W/Pt #'s
		DRN.	DRAWING NUMBER B1 - 110 B
		APPR.	REV LTR
		APPR.	
		MODEL	SHEET OF

REV LTR

DRAWING NUMBER

REVISION			
REV	DESCRIPTION	DATE	APPROVED

B1-125-7
HORN

B1-400-15
EL. T.E.

B1-400-13
EL. SPAR

B1-400-9
STAB. T.E.

B1-330-21
SPICE PLATE TYP

B1-400-17
RIB

B1-400-11
STAB. SPAR

B1-400-19
SPLICE
TYP. 2 PLCS

B1-301-1
FUSE

B1-135-1
RUDDER
CABLE

B1-130-21 UPPER
-27 LOWER

BATTEN #2

BATTEN #1

B1-330-47/-48 OPP
T.E. ATTACH
CHAN. L.H.

B1-210-35 (-36 R.H)
T.E. SPAR L.H.

NOTE: USE EXTRA
CARE IN ASSEMBLING
AIL. -5 HORN
LOCATES AS SHOWN

B1-225-7
CLIP

B1-225-5
AIL. RIB TYP

B1-225-3
AIL T.E.

B1-210-47
FITTING

B1-125-5
HORN

B1-225-1
AIL. SPAR

B1-130-5
CABLE

B1-130-15
CABLE

B1-130-7
CABLE

FIT.
B1-120-13

B1-210-39
SPICE

B1-210-37
T.E. EXT. (-38 OPP)

B1-610-13
AIL. PUSHROD

B1-135-3
AIL. ACT.

B1-610-1
BELLCRANK
ASSY

B1-330-13
JUNCTION PLATE

B1-210-43
STRUT

B1-210-13
STRUT

B1-210-15
STRUT

B1-210-41
DIAG. STRUT

B1-130-3
CABLE

B1-130-9
CABLE

B1-130-1
CABLE

B1-310-7
STRUT

B1-130-17
CABLE

B1-130-11
CABLE

B1-210-21
STRUT

B1-210-23
ANGLE

B1-120-1
FITTING

B1-120-1
FITTING (TYP
BOTH ENDS)

B1-330-1/-101
SPAR MOUNTS

B1-210-45
FITTING

B1-210-17
INTERNAL
SPLICE

B1-210-3
L.E. EXT

B1-210-1
L.E. SPAR

B1-311-1
AXLE

B1-310-23
SWING ARM

B1-310-29
SHAFT

B1-125-3
PEDAL

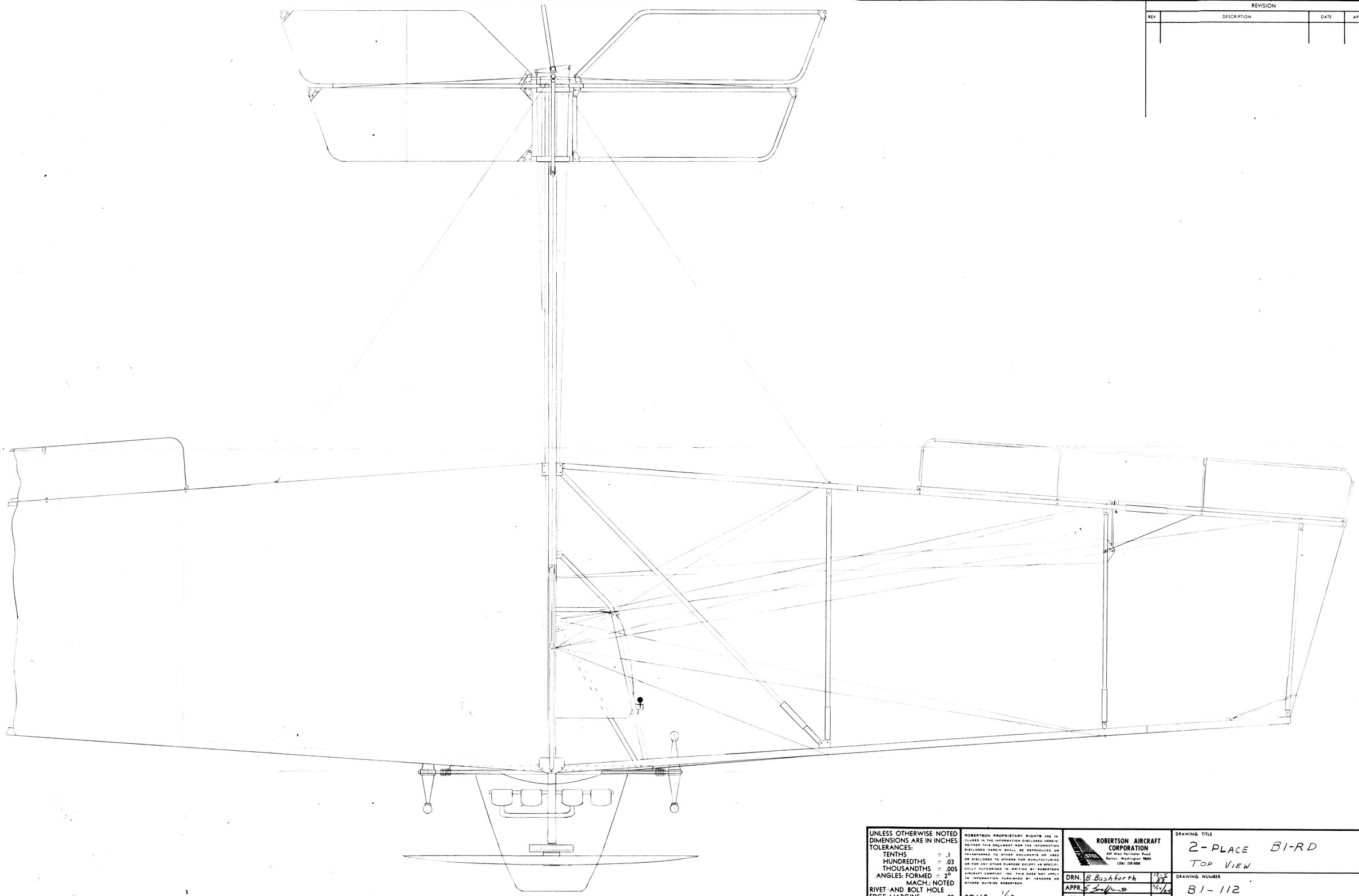
-4

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES TOLERANCES: TENTHS ± .1 HUNDREDTHS ± .03 THOUSANDTHS ± .005 ANGLES: FORMED ± 2° MACH.: NOTED RIVET AND BOLT HOLE EDGE MARGINS ± .05	SCALE	ROBERTSON AIRCRAFT CORPORATION SNOHOMISH COUNTY AIRPORT NORTH COMPLEX BUILDING C-72 EVERETT, WASHINGTON 98204	DRAWING TITLE B1-RD REF TOP VIEW W/Pt #'s
		DRN.	DRAWING NUMBER B1 - 110 B
		APPR.	REV LTR
		APPR.	
		MODEL	SHEET OF

REV LTR

DRAWING NUMBER

REVISION			
REV	DESCRIPTION	DATE	APPROVED



UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES	
TOLERANCES:	
TENTHS	± .1
HUNDREDTHS	± .03
THOUSANDTHS	± .005
ANGLES: FORMED	± 2°
MACH.: NOTED	
RIVET AND BOLT HOLE EDGE MARGINS	± .05

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SCALE 1/10

ROBERTSON AIRCRAFT CORPORATION
829 West Perimeter Road
Renton, Washington 98055
(206) 228-5000

DRAWING TITLE: 2-PLACE B1-RD
TOP VIEW

DRN.	B. Bashforth	12-5-83
APPR.		12/14/83
APPR.		

DRAWING NUMBER: B1-112

REV LTR: 1R

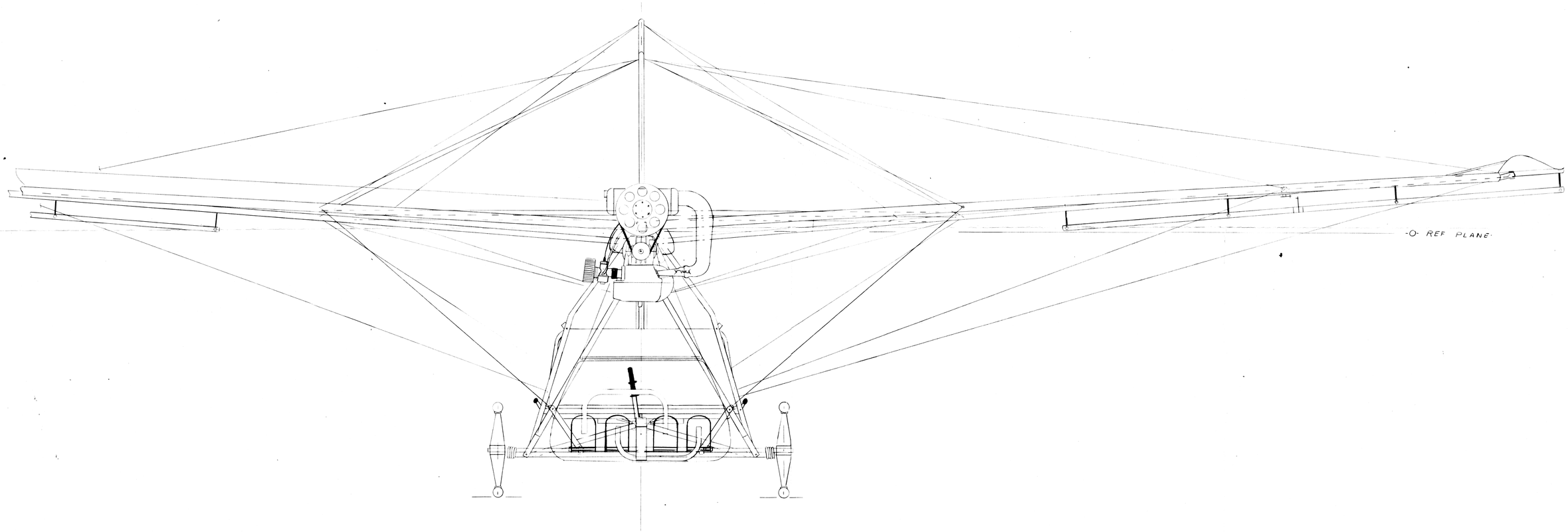
MODEL B1-RD 2-PLC

SHEET 3 OF 3

REV LTR 1R

DRAWING NUMBER B1-112 SHT 3

REVISION			
REV	DESCRIPTION	DATE	APPROVED



UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES	
TOLERANCES:	
TENTHS	± .1
HUNDREDTHS	± .03
THOUSANDTHS	± .005
ANGLES: FORMED	± 2°
MACH.: NOTED	
RIVET AND BOLT HOLE	
EDGE MARGINS	± .05

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SCALE 1/10

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: 2-PLACE B1-RD
FRONT VIEW

DRN.	S. Bashforth	12-5-83
APPR.	B. Bashforth	12/14/83
APPR.		

DRAWING NUMBER: B1-112

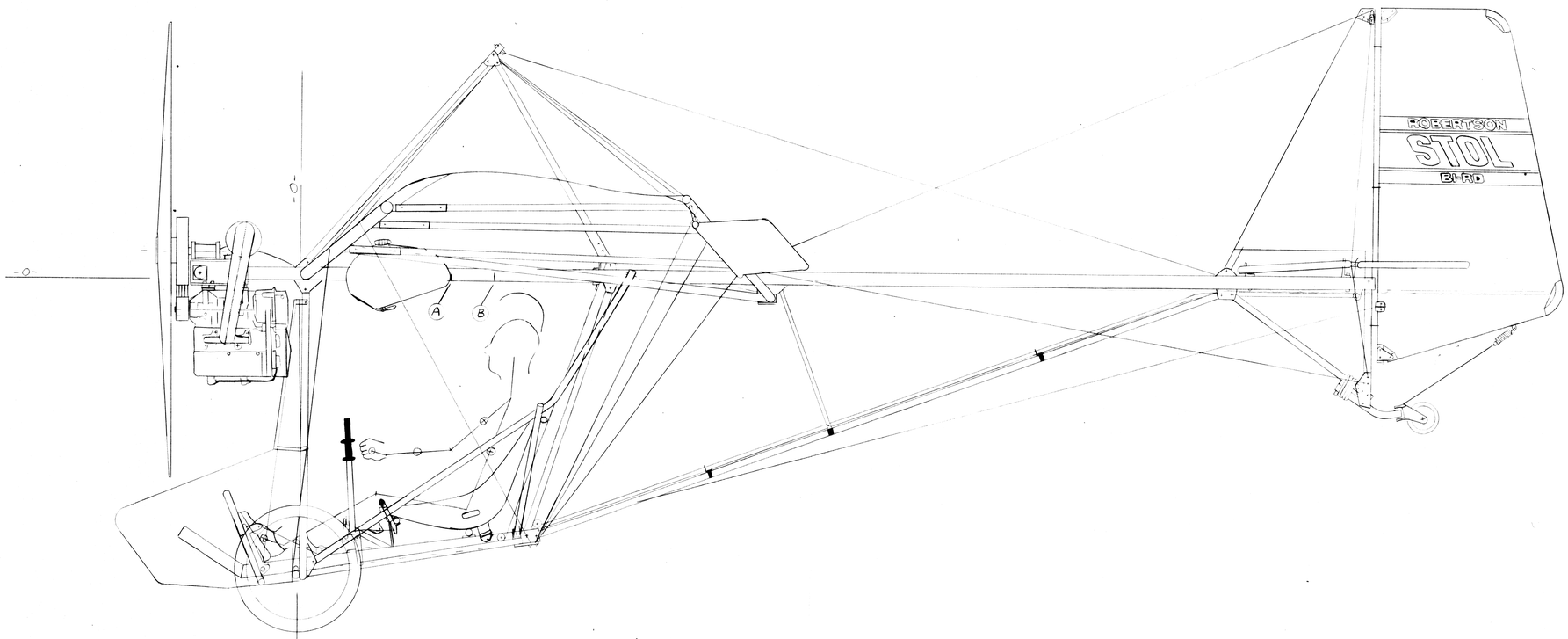
REV LTR: 1R

MODEL B1-RD 2-PLC

SHEET 2 OF 3

DRAWING NUMBER B1-112 SHT 2 REV LTR 1R

REVISION			
REV	DESCRIPTION	DATE	APPROVED



WEIGHT AND BALANCE LIMITS:
(A) = MAX. FWD BALANCE POINT = 23.8 IN AFT OF -0-
(B) = MAX. AFT BALANCE POINT = 30.5 IN AFT OF -0-

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE 1/10

ROBERTSON AIRCRAFT CORPORATION
829 West Perimeter Road
Renton, Washington 98055
(206) 228-5000

DRAWING TITLE: 2-PLACE B1-RD
SIDE VIEW

DRN.	B. BASHFORTH	12-7-81
APPR.	[signature]	12/16/81
APPR.		

DRAWING NUMBER B1-112

REV LTR 1R

MODEL B1-RD 2-PLC

SHEET 1 OF 3

REV LTR 1R
DRAWING NUMBER B1-112
SHT 1

FOR FINISH STANDARDS SEE REPORT 1005

REVISION			
REV	DESCRIPTION	DATE	APPROVED

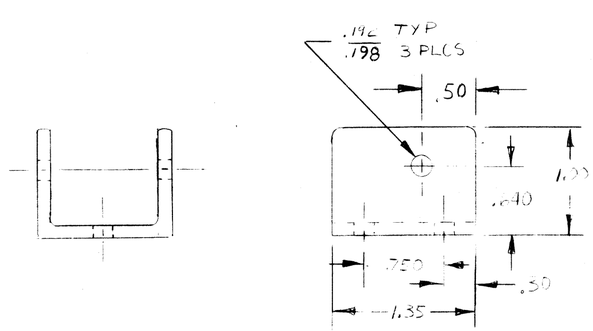
NOTES:

1. RADIUS ALL SHARP CORNERS $\frac{.10}{.20}$ R

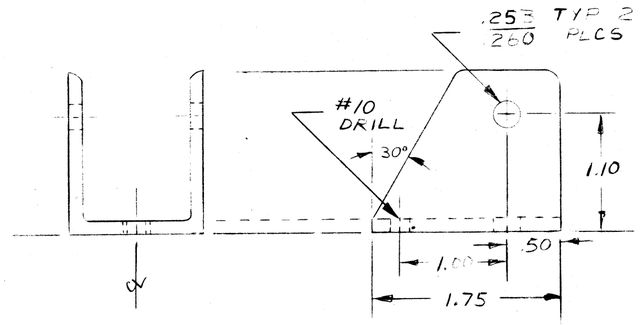
[2] FINISH F-205 ANODIZE PER MIL-A-8625
COLOR BLACK

[3] EFF. S/N

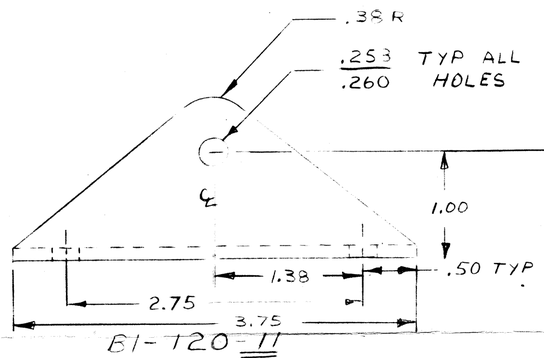
[4] EFF. S/N



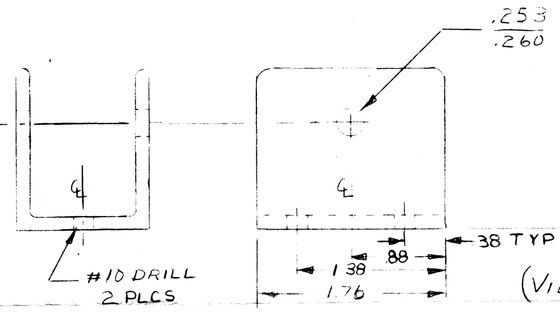
-15



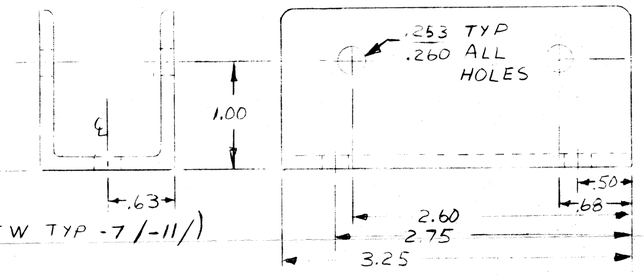
B1-120-13



B1-120-11
END VIEW SAME AS -5

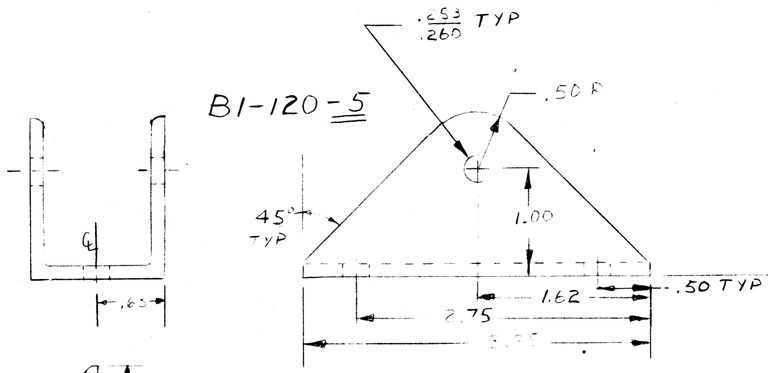


B1-120-9

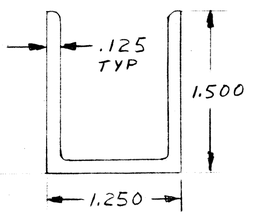


(VIEW TYP -7/-11)

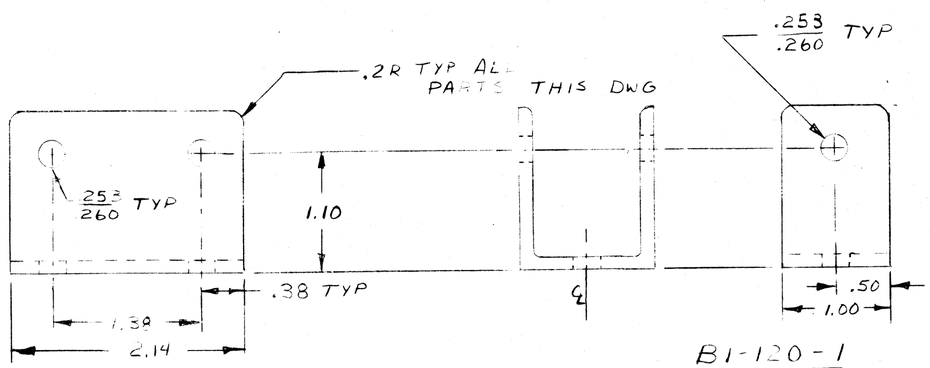
B1-120-7



B1-120-5



CROSS SECTION TYP.



B1-120-3

B1-120-1

QTY A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
1	B1-120-7	A [illegible] [2]	1.25 x .125 AND10137-1207 or Equiv. 6061-T6 CHANNEL				
1	B1-120-5	" " [2]	"				
2	B1-120-3	" " [2]	" " "				
8/6	B1-120-1 [3]/[4]	[2]	"		BIK F-205		

QTY A/C	PART NO.		
1	-15	AFT RUDDER CABLE BLOCK [2]	
3	B1-120-13	ATTACH FITTING [2]	AND10137-1207 6061-T6 CHANNEL
1	B1-120-11	" " [2]	OR Equiv.
2	B1-120-9	" " [2]	" "

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE FULL

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE

DRAWING NUMBER B1-

DRN.		
APPR.		
APPR.		

MODEL B1-R

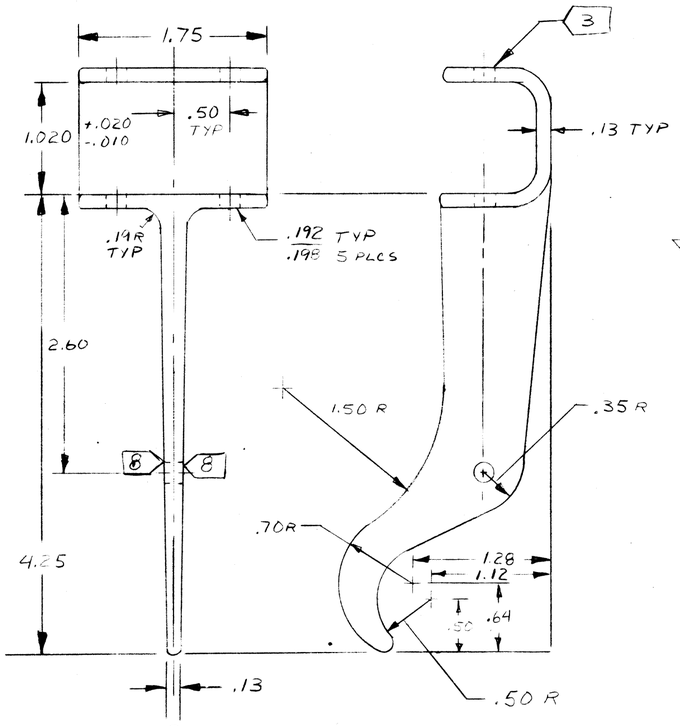
SHEET 1 OF 1

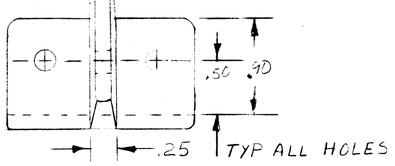
REV LTR

DRAWING NUMBER B1-120

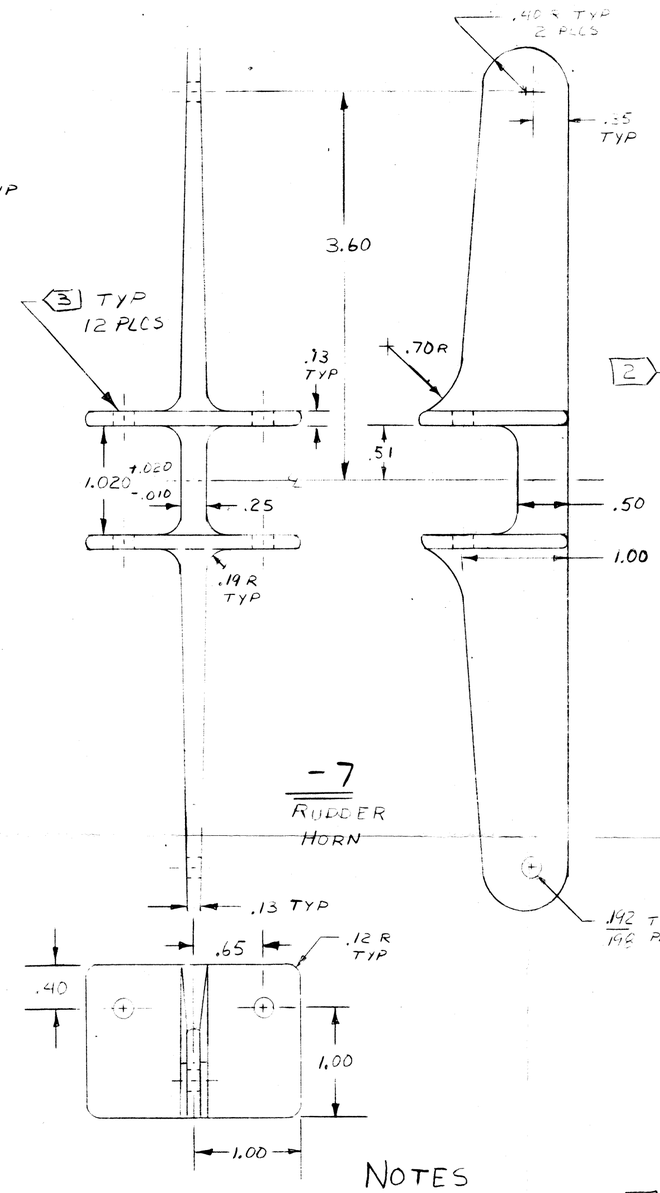
FOR FINISH STANDARDS SEE REPORT

REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	DELETED INNER HOLES - 7, ADDED [B] & [9], REVISED [2], REVISED .760 HOLE -3/4,	1-28-83	

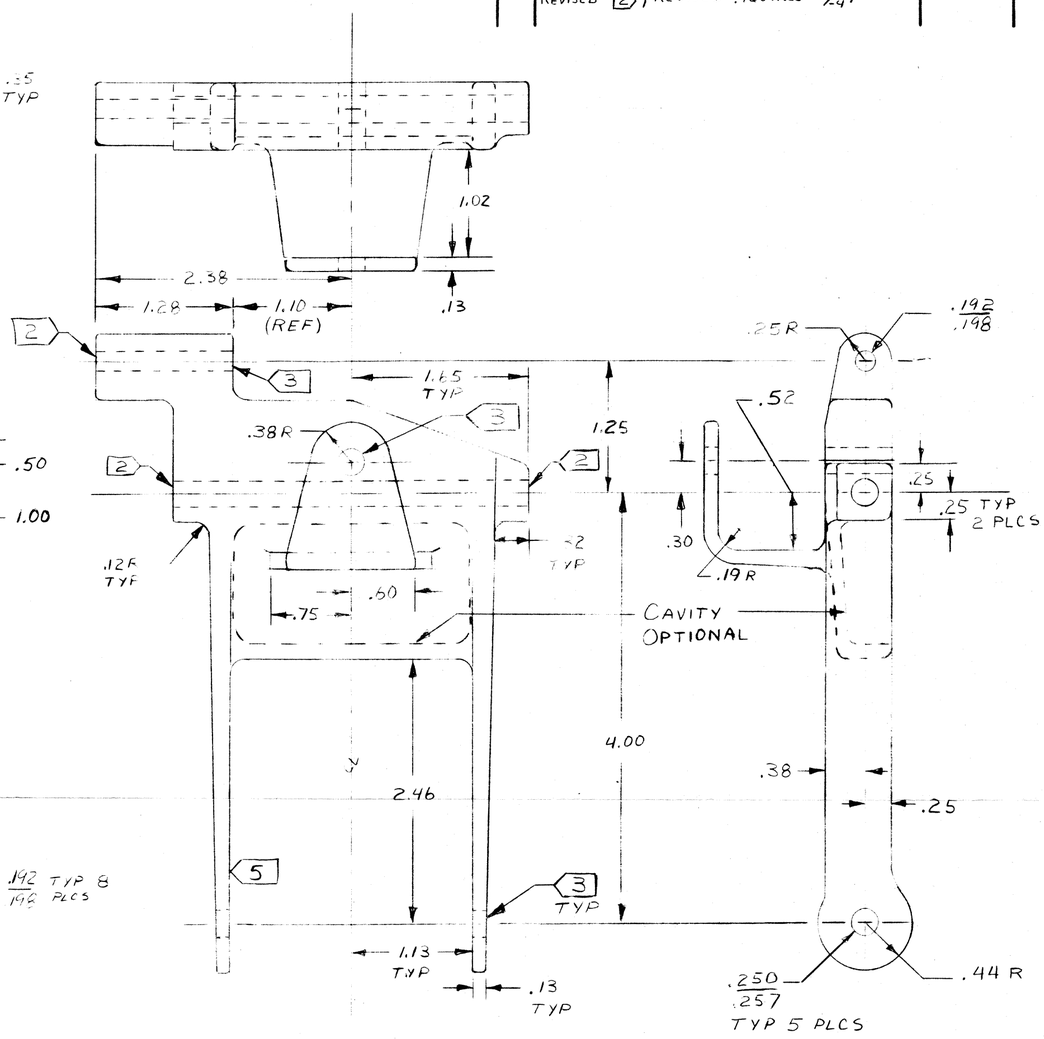




-5 AILERON HORN



-7 RUDDER HORN



-11 CONTROL STICK MIXER BODY

NOTES

[9] .80 MIN DIA OF FACE

[8] SPOT FACE PER [4] TO .16 +.010 -.030 TOTAL THICKNESS

[7] UNFINISHED CASTINGS CARRY AN X SUFFEX - B1-125-5X

[6] SPOT FACE X .50 R X .05 CORNER RADIUS - DEEP ENOUGH FOR FULL CUTTER CONTACT

[5] CLEAN UP SURFACE ROUGHNESS

[4] .62 MIN. DIA x .050 CORNER RADIUS.

[3] SPOT FACE x.50R TO CLEAN UP SURFACE. SEE [4]

[2] SPOT FACE x.50 R TO BRING PART TO DIM. SEE [9]

[1] MAT. SPEC = MIL-A-21180

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
SEE SHT 3	-3/4	RUDDER PEDALS	A356 AL H.T. T-61 [1]		BIK F209	SHT 3	
1	-11 [7]	CONTROL STICK MIXER	A 356 AL H.T. T-61 [1]		BIK F209		
1	-7 [7]	RUDDER HORN	A356 AL. H.T. T-61 [1]		BIK F209		
2 OR	B1-125-5 [7]	AILERON HORN	A356 AL. H.T. T-61 [1]		BIK F209		

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE FULL

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE CASTINGS
AIL., RUDDER HORNS -

DRN.	B. Bashforth	4-1 82
APPR.		
APPR.		

DRAWING NUMBER B1-125

MODEL B1-RD

SHEET 1 OF 3

REV LTR A

DRAWING NUMBER B1-125

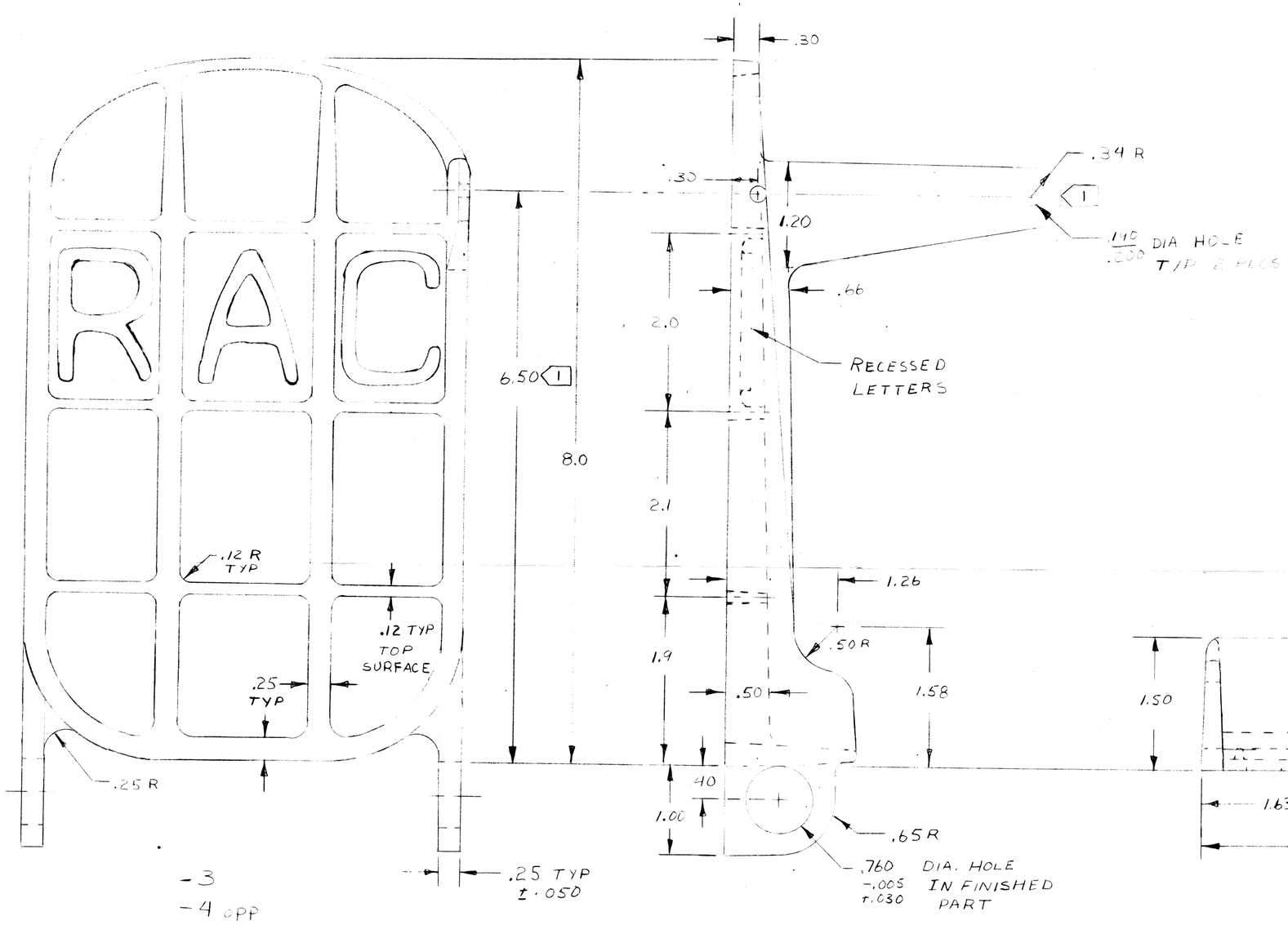
SHT 1

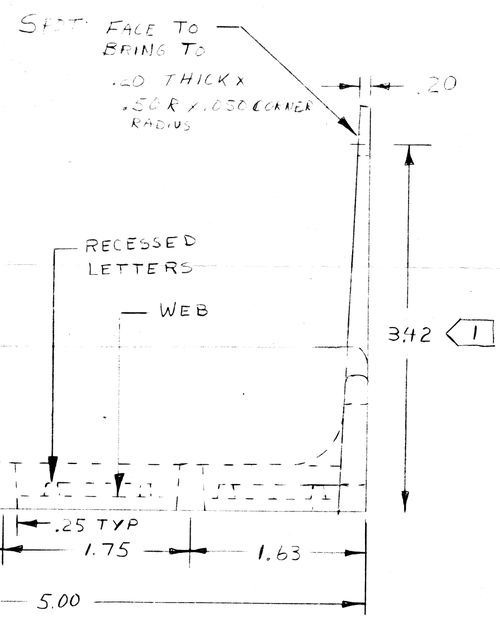
NOTES:

[1] - MIN. E/D THIS HOLE .30 — HOLE MAY BE MOVED UP TO .10 TO SAVE PART

FOR FINISH STANDARDS SEE REPORT

REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED .760 DIA HOLE, SEE SHT 1		





REV LTR A

DRAWING NUMBER B1-125 SHT 3

Scale for Dim.

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
1/1	B1-125-3 4 OPP	RUDDER PEDALS	A356 AL. H.T. - T-6		BLK F209		

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS · .1
HUNDREDTHS · .04
THOUSANDTHS · .010
ANGLES: FORMED · 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS · .05

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SCALE FULL

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: RUDDER PEDALS

DRN.	B Bushforth	1-25-82
APPR.		
APPR.		

DRAWING NUMBER: B1-125

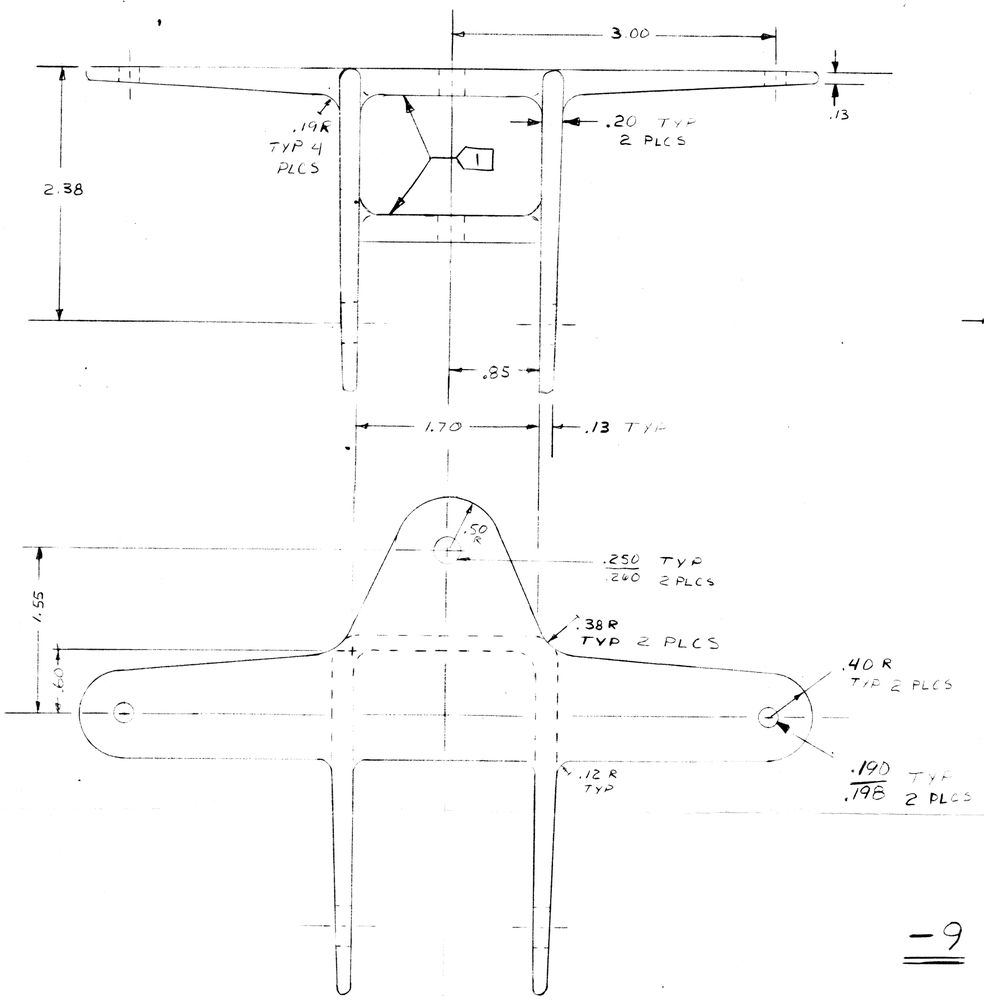
REV LTR: A

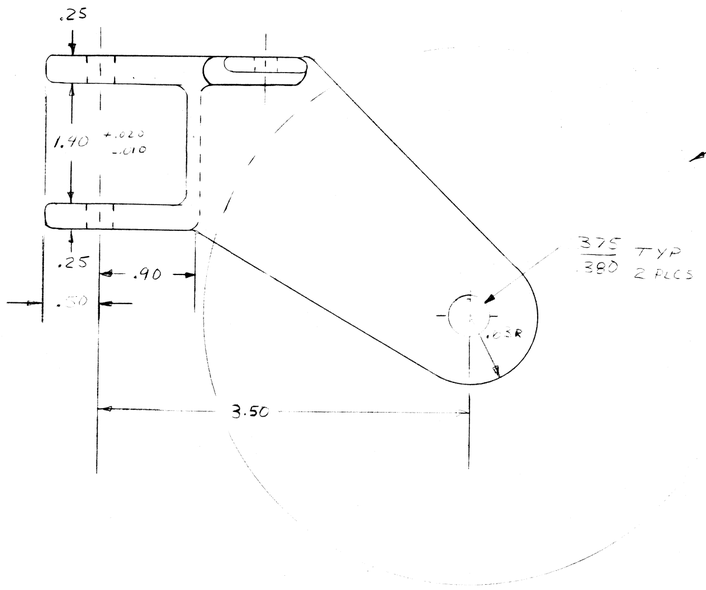
MODEL: B1-RD

SHEET 3 OF 3

FOR FINISH STANDARDS SEE REPORT 1005.

REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	NO CHANGE THIS SHT -	1/28/63	





5" Tail Wheel (Ref)
Payson # 05112-BR
or eq.

-9 TAIL WHEEL CASTER

1 CLEAN UP SURFACE ONLY IF EXCESSIVE ROUGHNESS PRESENT

SCALE FOR DIM. NOT NOTED

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
1	B1-125-9	TAIL WHEEL CASTER	A 356 A1. H.T. T-6		BIK F209		

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE FULL

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRN.	B Bushfeath	4-15-63
APPR.		5/16/63
APPR.		

DRAWING TITLE CASTING - TAIL WHEEL CASTER

DRAWING NUMBER B1-125

REV LTR A

MODEL B1-RD

SHEET 2 OF 3

REV LTR A

DRAWING NUMBER B1-125

SHT 2

NOTES:
1. DISCONTINUED - 1 EA USED SN 001 thru 030 ONLY
2. DISCONTINUED - 2 EA USED SN. 001 thru 030 ONLY
3. 6061-T6 PER WW-T-700/6
4. ACCEPTABLE EXTRUSION No's:

   TMS - 60 - 70
   60 - 207
   60 - 5563
   60 - 6479
   AND 10133 - 1001

5. ALT. MAT'L = 6063-T6
   6063-T832
6. 6061-T6 PER QQ-A-200/8
   6063-T8 PER QQ-A-200/9
   2024-T3 PER QQ-A-200/3
7. 2 ea USED PER A/C-EFF. S/N 001/030 ONLY-
8. PREFERRED EXT. = TMS 60-6229
   OPT. EXT. = PA 7582

FOR FINISH STANDARDS SEE REPORT 1005.

REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	[illegible]	7/9/82	
B	ADDED -49	9/9/82	
C	REVISED MAT'L -45,-47 - ADDED 8 TO -45,-47 REVISED FINISH - 17	4/14/82	

QUANTITY/ASSY	QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
	7	-49	T.E. SLEEVE	1⅛ x .058 W 6061-T6 TUBE [3]		F209	SHT 4	
1		B1-330-17B	TUBE					
1		B1-330-17A	TUBE					
	2	-47	ATTACH CHANNEL	1.375 x 1.65 x .120 [8] [6] 6061-T6 CHANNEL		F205		
	2	-45	ATTACH CHANNEL	1.375 x 1.65 x .120 [8] [6] 6061-T6 " "		F205	Sht 3	
	2	-43	#1 COMPRESSION STRUT	1.125 x .065 6061-T6 TUBE [3]		F209	Sht 4	
	2	-41	DIAGONAL STRUT (1⅛)	1.125 x .065 6061-T6 TUBE [3]		F209		
	2	-39	T.E. SPLICE	1.250 x .058 6061-T6 TUBE [3]		F209		
	1/1	-37/-38	T.E. SPAR EXT. (1⅛)	1.125 x .065 W 6061-T6 TUBE [3]		F209		
	1/1	-35/-36	T.E. SPAR (1⅛)	1.125 x .065 W 6061-T6 TUBE [3]		F209	Sht 4	
~	2	-33	DIAGONAL STRUT ASSY				Sht 2	
~	2	-31	L.E. SPAR ASSY.				Sht 2	
	2	-29	TIP STRUT PIN	AN4-7A~104 MODIFIED		F301		
	2	-27	T.E. BOLT	AN4-22 (RETHREAD GRIP TO 1.32)		F301	Sht 3	
	2	-25	T.E. BOLT	AN4-20 " " "		F301		
	2	-23	ATTACH ANGLE	1.00 x 1.00 x .063 [4] 6061-T6 [5] [6] ANGLE		F205		
	2	-21	OUTER BATTEN COMP ST.	.375 x .083 W [3] [5] 6061-T6 TUBE		F209	Sht 3	
	2	-19	T.E. SPLICE, TUBE	1.125 x .058 W 6061-T6 TUBE [3]		F209	Sht 2	
	2	-17	L.E. SPLICE TUBE	1.625 x .058 W 6061-T6 TUBE [3]		F204		
	2	-15	#3 COMPRESSION STRUT	1.00 x .049 W 6061-T6 TUBE [3]		F209		
	2	-13	#2 " " "	1.00 x .065 W 6061-T6 TUBE [3]		F209		
	2	-11	#1 COMPESSION STRUT	1.00 x .049 W 6061-T6 TUBE [3]		F209		
1	2	-9	DIAG. STRUT TUBE	1.00 x .049 W 6061-T6 TUBE [3]		F209		
	1	-7/-8	T.E. SPAR EXTENTION	1.00 x .065 W 6061-T6 TUBE [3]		F209		
	1	-5/6	T.E. SPAR	1.00 x .065 W 6061-T6 TUBE [3]		F209		
	2	-3	L.E. SPAR EXTENTION	1.75 x .058 W 6061-T6 TUBE [3]		F209		
1		B1-210 - 1	L.E. SPAR TUBE	1.75 x .058 W 6061-T6 TUBE [3]		F209	Sht 2	
-33	-31							

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRN. Bruce Bashforth 7-9-82
APPR. [illegible] 7/[illegible]
APPR.

DRAWING TITLE: WING COMPONENTS - L/M

DRAWING NUMBER: B1-210

REV LTR: C

MODEL B1-RD

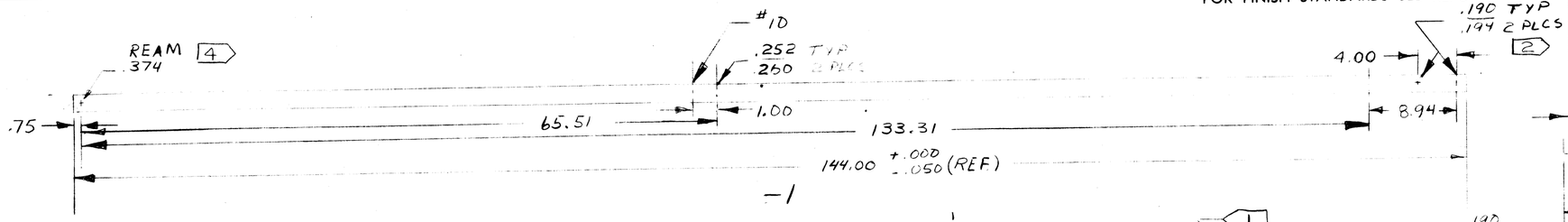
SHEET 1 OF 4

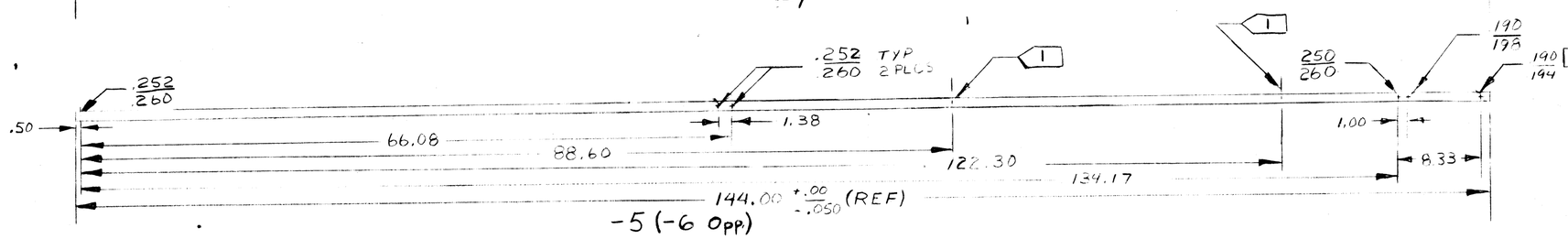
REV LTR C

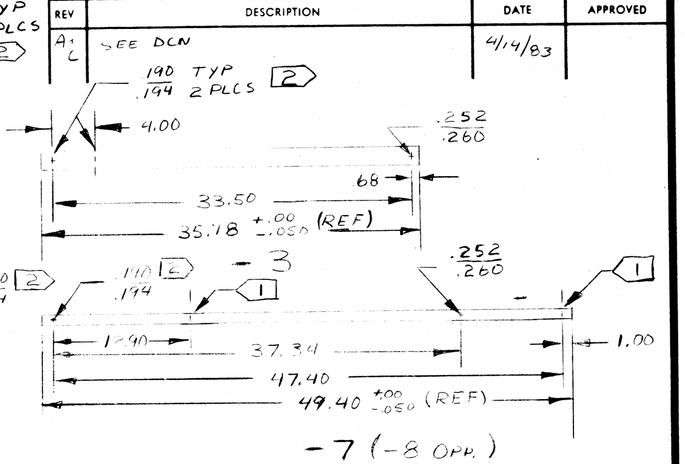
DRAWING NUMBER B1-210

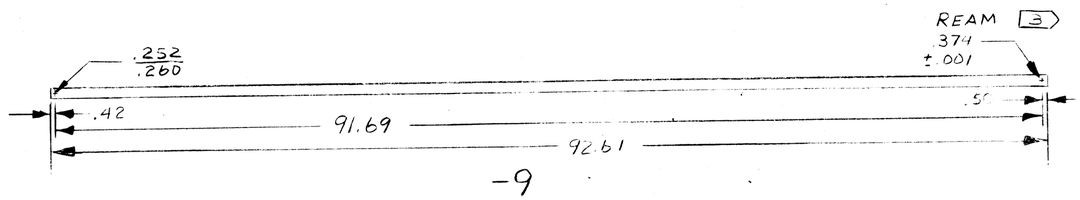
FOR FINISH STANDARDS SEE REPORT 1005

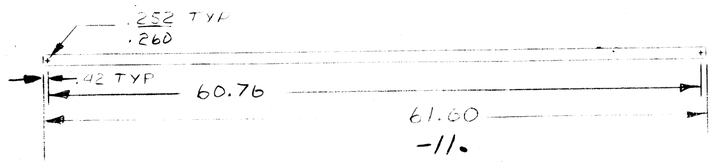
REVISION			
REV	DESCRIPTION	DATE	APPROVED
A, C	SEE DCN	4/4/83	

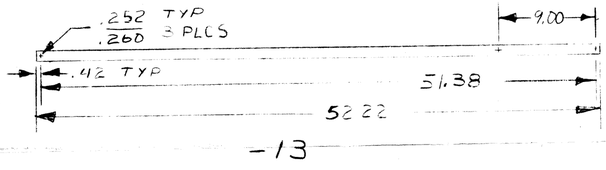


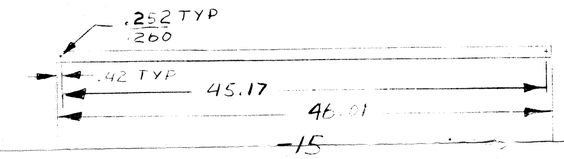


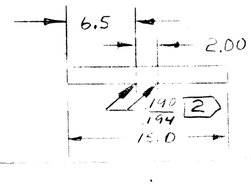


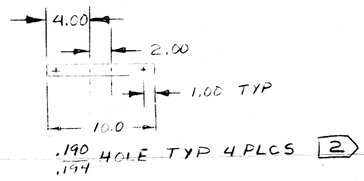


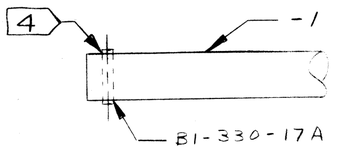




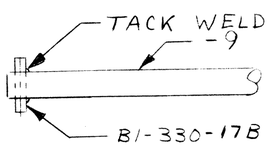








-31 L.E. SPAR ASSY
1/4 SCALE



-33 DIAGONAL STRUT ASSY
1/4 SCALE

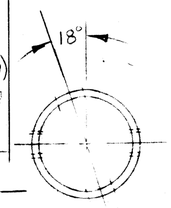
5 6061-T6 PER WW-T-700/6

4 PRESS IN-CENTER - B1-330-17A TUBE - AFTER PAINT

3 PRESS IN-CENTER - TACK WELD (PER MIL-W-8604) 2 PLCS - B1-330-17B TUBE - BEFORE PAINT

2 DRILL HOLES THRU ONE SURFACE ONLY

1 = .252/.260 HOLE ANGLED 18° OFF VERTICAL —

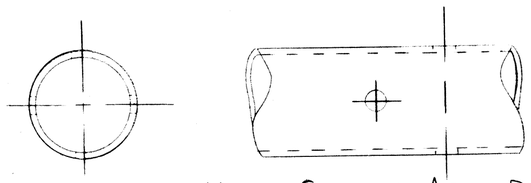


-5 SHOWN

GENERAL NOTES:

.252/.260 = #F (.257) DRILL PREFERED

.190/.198 ~ .190/.194 = #10 (.1935) DRILL PREFERED



ALL HOLES SHOWN ARE PERPENDICULAR (90°) UNLESS OTHERWISE NOTED

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE 1/10

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRN. B. Bashforth 11-1-81
APPR.
APPR.

DRAWING TITLE: Wing Components

DRAWING NUMBER: B1-210

REV LTR: C

MODEL B1-RD

SHEET 2 OF 4

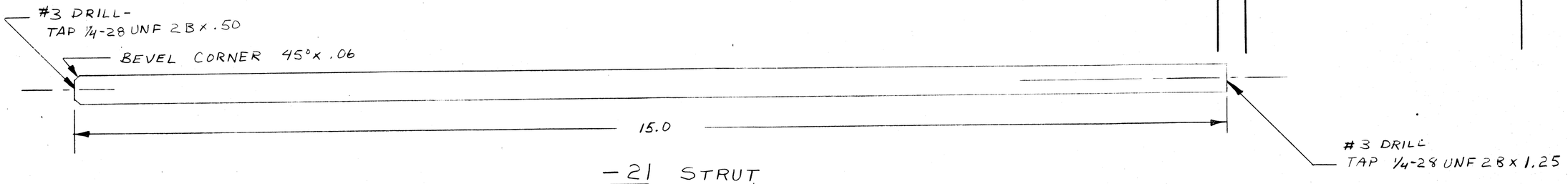
REV LTR C

DRAWING NUMBER B1-210

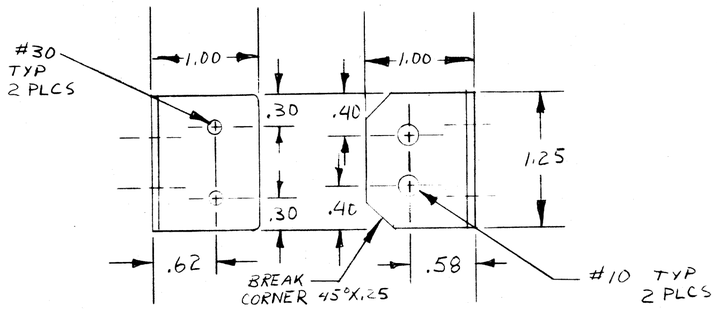
SHT 2

FOR FINISH STANDARDS SEE REPORT 1005.

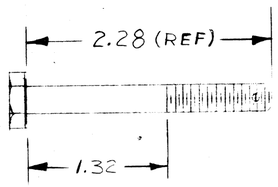
REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	SEE DCN	7/9/82	
B	" "	9/9/82	
C	" "	4/14/83	



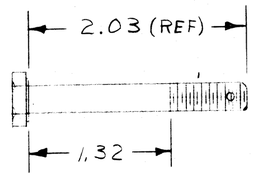
-21 STRUT



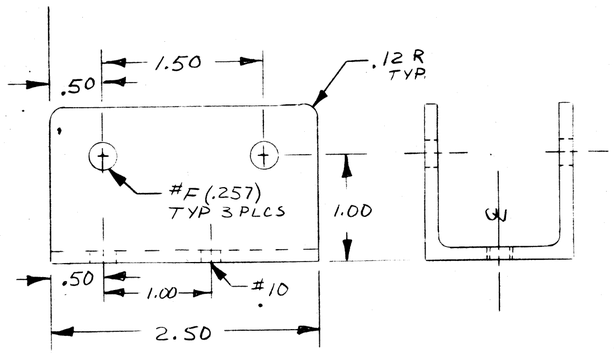
-23



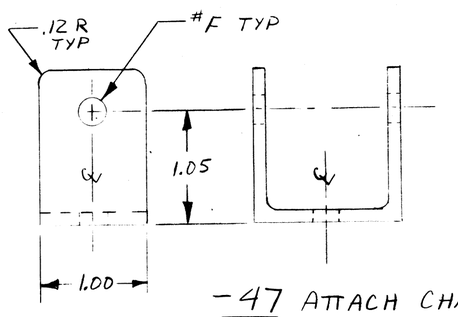
-27 BOLT
RETHREAD 1/4-28 UNF-2A
TO DIM.



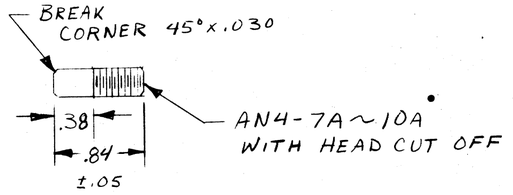
-25 BOLT
RETHREAD 1/4-28 UNF-2A
TO DIM.



-45 ATTACH CHANNEL



-47 ATTACH CHANNEL



-29 PIN-TIP STRUT

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

SCALE FULL

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: WING COMPONENTS

DRN.	B Bashforth	6-3-82
APPR.	Mac McVea	7/1/82
APPR.		

DRAWING NUMBER: B1-210

MODEL B1-RD

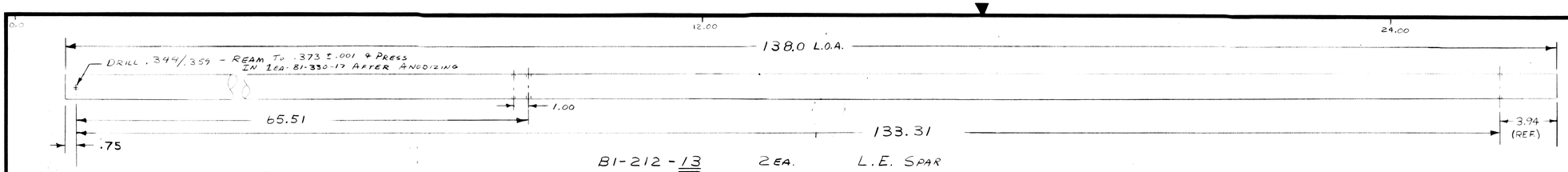
SHEET 3 OF 4

REV LTR C

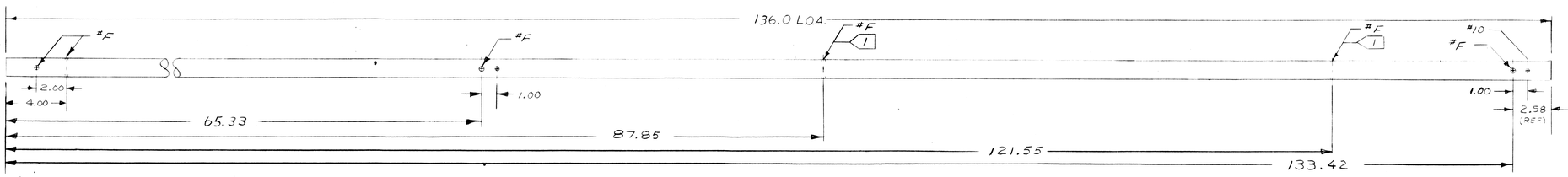
DRAWING NUMBER B1-210

REV. LTR C

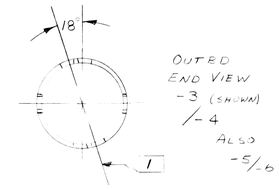
REVISION			
REV	DESCRIPTION	DATE	APPROVED

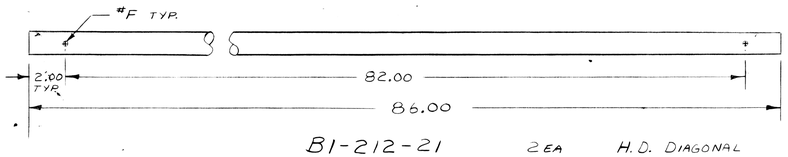


B1-212-13 2 EA. L.E. SPAR
1.75 x .058w 6061-T6
(B1-210-31 SHORTENED 6.0")

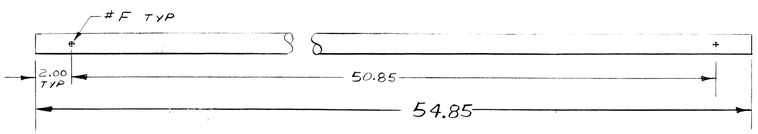


B1-212-3/-4 OPP 1/1 EA. T.E. SPAR
1.250 x .058w 6061-T6

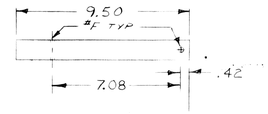




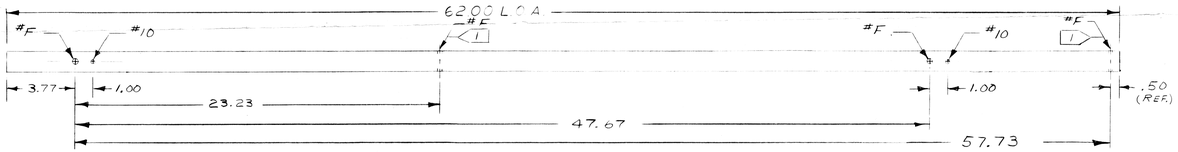
B1-212-21 2 EA H.D. DIAGONAL STRUT
1.250 x .058w 6061-T6



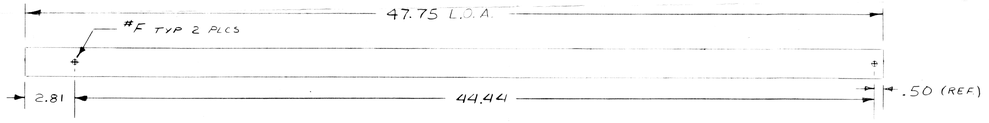
B1-212-23 2 EA H.D. #1 COMP. STRUT
1.250 x .058w 6061-T6



B1-212-17 4 EA AFT STRUT STUB
1.125 x .065w 6061-T6



B1-212-5/-6 OPP. 1/1 EA T.E. SPAR EXTENSION
1.125 x .058w 6061-T6



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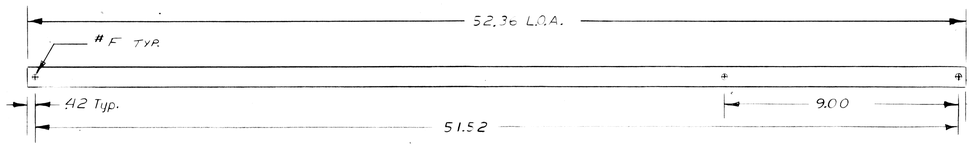
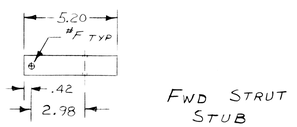
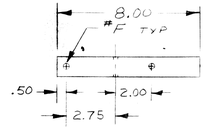
1.625 x .058w 6061-T6



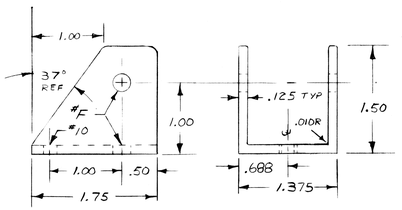
B1-212-9 2 EA H.D. #2 COMP. STRUT
1.125 x .065w 6061-T6



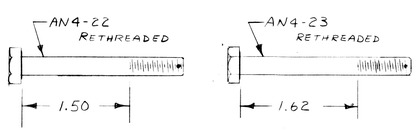
FWD STRUT STUB
B1-212-19 4 EA
1.125 x .065w 6061-T6



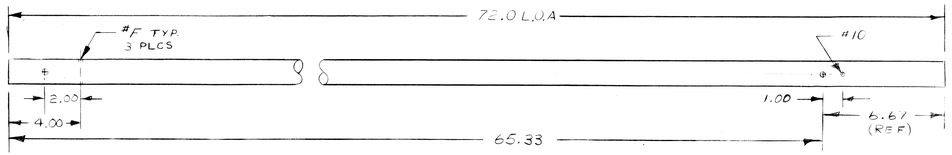
T.E. SPAR ADAPTER
B1-212-1 2 EA
1.125 x .095w 6061-T6



B1-212-15 4 EA ATTACH CHANNEL
1.375 x 1.50 x .125w CHANEL 6061-T6



B1-212-11 BOLT 2 EA
B1-212-27 BOLT (H.D. SYSTEM) 2 EA



B1-212-25 2 EA H.D. T.E. SLEEVE
1.375 x .058w 6061-T6

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE
EDGE MARGINS ± .05

SCALE 1/4

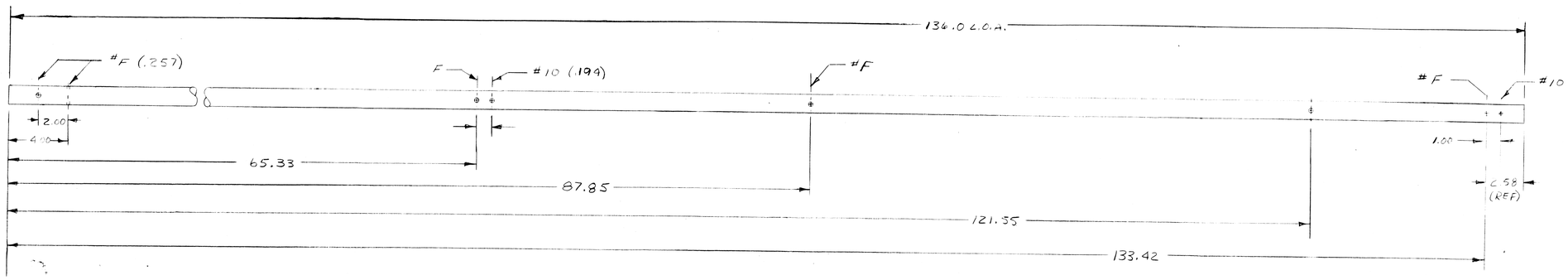
DRAWING TITLE: HEAVY DUTY WING PARTS

DRN.	B. BASHFORTH	6/20/85	DRAWING NUMBER: B1-212
APPR.			REV LTR: 1R
APPR.			

MODEL B1-RD -'85 SHEET 2 OF 2

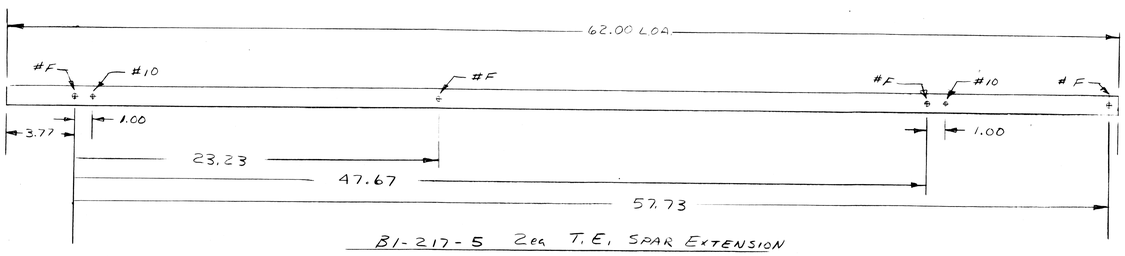
REV LTR 1R
SHT 2
DRAWING NUMBER B1-212

REVISION			
REV	DESCRIPTION	DATE	APPROVED



B1-217-3 2ea TRAILING EDGE SPAR

1.25 x .058w 6061-T6 TUBE



B1-217-5 2ea T.E. SPAR EXTENSION

1.125 x .058w 6061-T6 TUBE

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES TOLERANCES: TENTHS ± .1 HUNDREDTHS ± .03 THOUSANDTHS ± .005 ANGLES: FORMED ± 2° MACH.: NOTED RIVET AND BOLT HOLE EDGE MARGINS ± .05	ROBERTSON PROPRIETARY RIGHTS ARE INCLUDED IN THE INFORMATION DISCLOSED HEREIN. NEITHER THIS DOCUMENT NOR THE INFORMATION DISCLOSED HEREIN SHALL BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR USED OR DISCLOSED TO OTHERS FOR MANUFACTURING OR FOR ANY OTHER PURPOSE EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY ROBERTSON AIRCRAFT COMPANY, INC. THIS DOES NOT APPLY TO INFORMATION FURNISHED BY VENDORS OR OTHERS OUTSIDE ROBERTSON. SCALE 1/4	ROBERTSON AIRCRAFT CORPORATION 839 West Perimeter Road Renton, Washington 98055 (206) 228-5000 DRN. B BASHFORTH APPR. APPR. MODEL B1-2D	DRAWING TITLE CURRENT T.E. DRAWING NUMBER B1-217 SHEET 1 OF 1

REV LTR

DRAWING NUMBER B1-217

SHT 1

REV LTR

NOTES:

FOR FINISH STANDARDS SEE REPORT 1005.

REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	B3 MODEL - SAIL-CHANGED CLOTH WT. SEE [1] & [6]	4-9-83	
B	CHANGED SAIL CLOTH AT SAIL	6-16-83	BB 6/16/83

[1] DIMENSION SAILCLOTH (213-426-9433) 3.8/3.9 oz x 36" w. "DERWIN" DACRON SAILCLOTH OR EQ.

[2] DURING ASSY SKIN PATTERNS ARE FOLDED TO CONFORM TO L.H. OR R.H. CONFIGURATION

[3] BINDING TO BE USED ON UNHEMMED EDGES

[4] USED ONLY ON 82 MODEL SAIL (SHTS 2&3) - EFFECTIVE THRU 3-1-83
DELETE FOR 83 MODEL SAIL (SHTS 4~6) - " " AFTER " "

[5] EFFECTIVE 3-1-83 - ALL WING SKINS TO BE MADE USING SHTS 4~7 ONLY - SAILS MADE AFTER 3-1-83 ARE '83 MODEL SAILS - SHTS 2&3 ARE INACTIVE AS OF 2-28-83 - ALL SAILS MADE BEFORE 3-1-83 (AS DETAILED BY SHTS 2&3) ARE CONSIDERED '82 MODEL. ALL UNITS ARE INTERCHANGABLE (RECOMMEND BY SETS ONLY).

[6] 3.0 OZ DERWIN OR EQ. OPTIONAL BY P/O REQUEST ONLY

-4	-3	-2	-1	QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
			1	1	-31	BI-RD LOGO SET	DACRON INSIGNIA CLOTH			SHT 7	
1	1			2	-29	AILERON SKIN F/P	[1] [6]			Sh+6	
			1	1	-25	SKIN CENTER SECTION	[1] [6]			Sh+6	
		1	1	2	-23	SKIN PANEL - L.E. SOCK	[1] [4] [5]			—	
		1	1	2	-21	SKIN PANEL - TIP	[1]			Sht 4	
		1	1	2	-19	SKIN PANEL #6					
		1	1	2	-17	SKIN PANEL #5					
		1	1	2	-15	SKIN PANEL #4					
		1	1	2	-13	SKIN PANEL #3					
		1	1	2	-11	SKIN PANEL #2					
		1	1	2	-9	SKIN PANEL #1 [2] TYP	[1] [5] [6]			Sht 4	
~				1	-4	AIL. SKIN ASSY R.H. (OPP-3)				SHT 6	
	~			1	-3	AILERON SKIN ASSY L.H.				" "	
		~		1	-2	WING SKIN ASSY R.H. (OPP-1)	[5]			SHT 5	
			~	1	BI-221-1	WING SKIN ASSY. L.H.	[5]			" "	

QUANTITY/ASSY

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING

APPLICATION

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: WING SKIN - L/M

DRN.	B. Bashforth	4-27-83
APPR.		4/ /83
APPR.		4-3-83

DRAWING NUMBER: BI-221

REV LTR: B

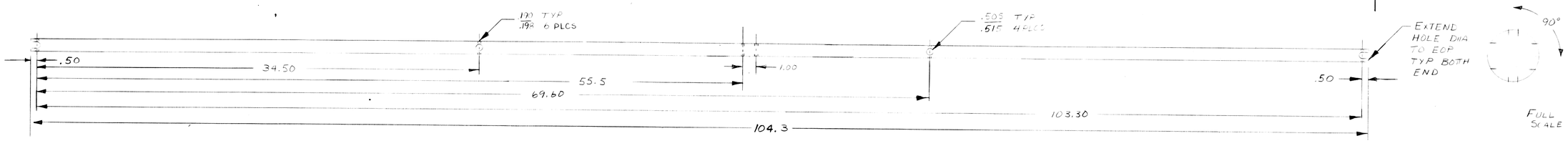
MODEL BI-RD

SHEET 1 OF 7

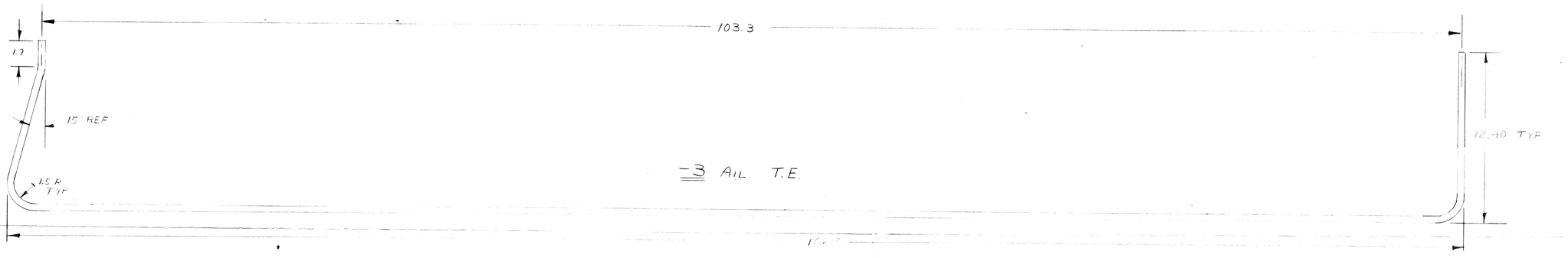
REV LTR B

DRAWING NUMBER BI-221 SHT 1

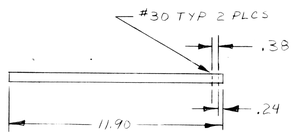
REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	SHORTENED -1		



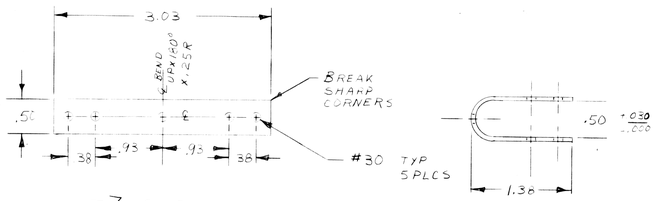
-1 AILERON SPAR



-3 AIL. T.E.



-5 AIL. RIB



-7 CLIP
(F/P SHOWN)
FULL SCALE

-7 CLIP
(FORMED)
FULL SCALE

QTY A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
2	-11	OUTBD AIL L.E. CUFF	.016 (.012~.020) x 4.00 x 55.5 [1] SHT 2		F 209	SHT 2	
2	-9	INBD AIL. L.E. CUFF	" " " x 46.5 "		F 209	SHT 2	
4	-7	CLIP	.050 x .50 x 3.03 6061-T6 SHT		BLACK F 205	SHT 1	
4	-5	AIL. RIB	" " " " " "		BLACK F 209		
2	-3	AIL. T.E.	.50 x 1.049 w PER WW-T-700/6 6061-T6 TUBE		BLACK F 209		
2	B1-225-1	AILERON SPAR	1.00 x 1.049 w x 104.3 PER WW-T-700/6 6061-T6 TUBE		BLACK F 209	SHT 1	

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

SCALE 1/4

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: AILERON DETAIL PARTS

DRN. B. Bashforth 6-28-72
APPR. [illegible] 7/5/72
APPR.

DRAWING NUMBER: B1-225

REV LTR: A

MODEL B1-RD

SHEET 1 OF 2

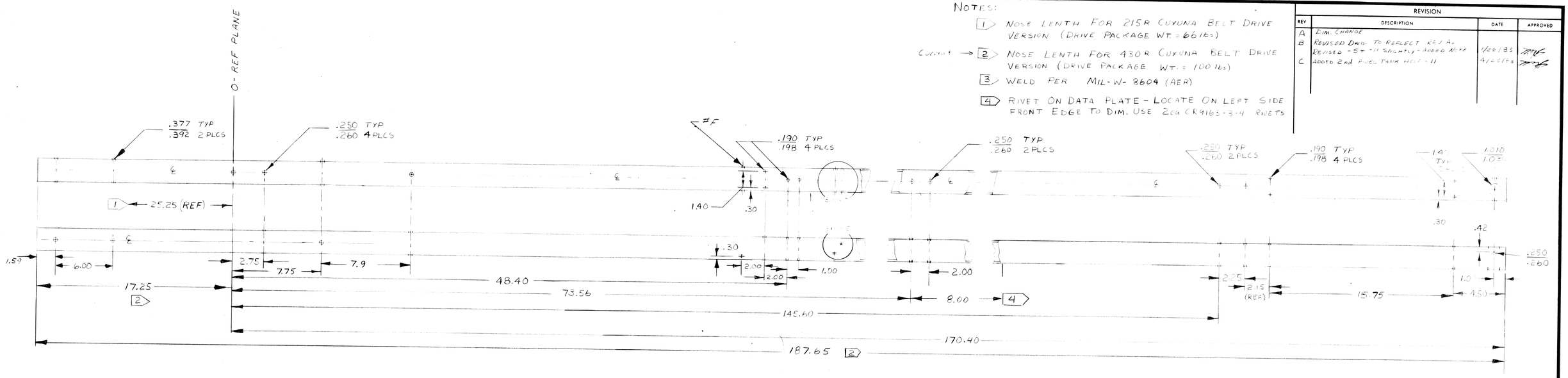
REV LTR A

DRAWING NUMBER B1-225 SHT 1

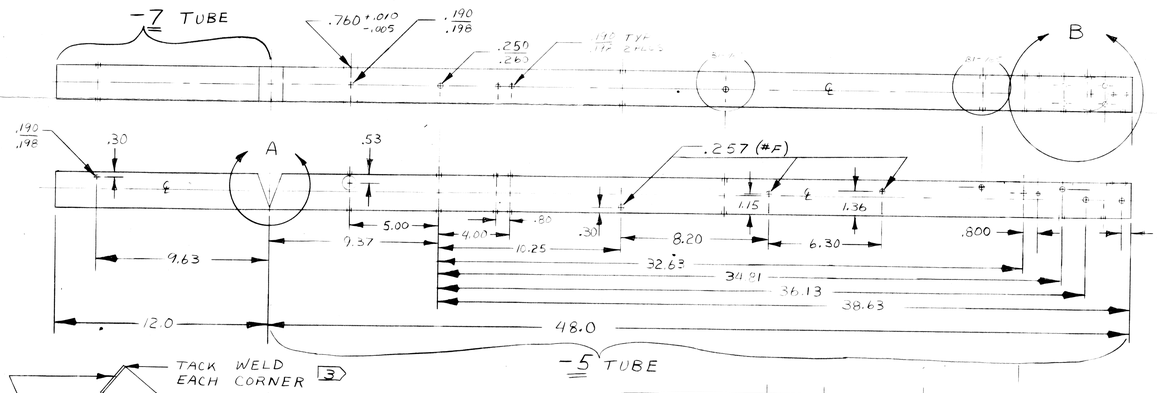
NOTES:

1. NOSE LENTH FOR 215R CUYUNA BELT DRIVE VERSION (DRIVE PACKAGE WT. = 66 lbs)
2. NOSE LENTH FOR 430R CUYUNA BELT DRIVE VERSION (DRIVE PACKAGE WT. = 100 lbs) — Current
3. WELD PER MIL-W-8604 (AER)
4. RIVET ON DATA PLATE - LOCATE ON LEFT SIDE FRONT EDGE TO DIM. USE 2 ea CR9163-3-4 RIVETS

REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	DIM. CHANGE		
B	REVISED DWG. TO REFLECT REV A - REVISED -5 & -11 SLIGHTLY - ADDED NOTE	11/28/83	
C	ADDED 2nd FUEL TANK HOLE - 11	4/25/85	



-11 FUSELAGE TUBE



NOTE: WHEN POSSIBLE - USE #F DRILL FOR .250/.260 HOLES - USE #10 FOR .190/.198 HOLES

QTY A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
1	-11	FUSELAGE TUBE	2.00x2.00x.125w Sq Tube 6061-T6 QQ-A 200/8		F209 BLACK		
1	B1-330-41	DATA PLATE					
1	B1-330-39	CAP					
1	-7	TUBE	2.00x2.00x.125 Per QQ-A-200/8 6061-T6 TUBE				
1	-5	TUBE	2.00x2.00x.125 Per QQ-A-200/8 6061-T6 TUBE				
~	-3	KEEL TUBE ASSY			F209 BLACK		
~	1 B1-301-1	FUSELAGE ASSY					

QUANTITY/ASSY: -3 -1

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

SCALE 1/4

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: FUSELAGE & KEEL DETAIL

DRN. B. Bashforth 5-8-85
APPR. [illegible]
APPR.

DRAWING NUMBER: B1-301

REV LTR: C

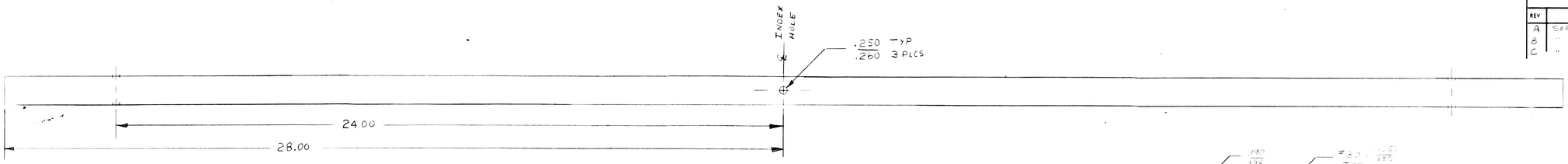
MODEL B1-RD

SHEET 1 OF 1

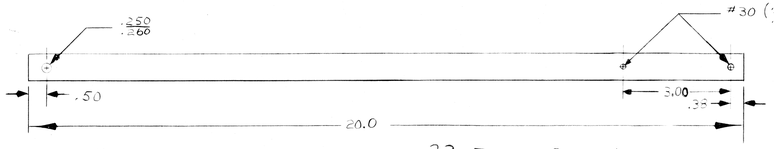
REV LTR C

DRAWING NUMBER B1-301

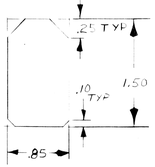
REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	SEE DCN	9/2/93	
B	" "	4/14/93	
C	" "	5/2/95	



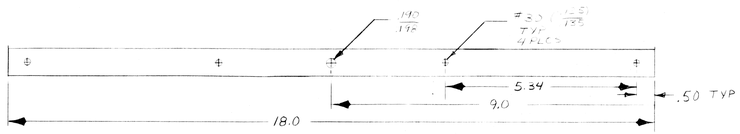
-17 TUBE - AXLE
½ SCALE



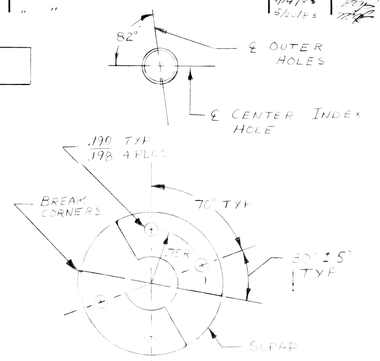
-23 TUBE - SWING ARM
½ SCALE



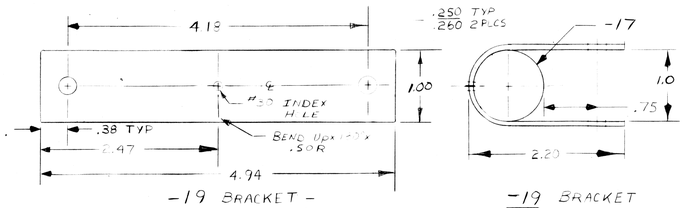
-25 PLATE



-29 TUBE - RUDDER PEDAL
½ SCALE

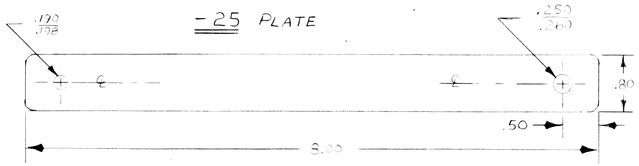


-31 BRACKET - FENDER
NOTE: OPTIONAL - SCRAP SECTION MAY BE LEFT ON -

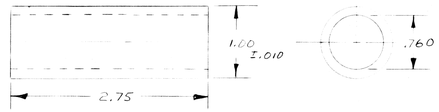


-19 BRACKET - F/P

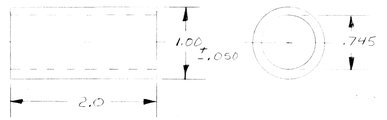
-19 BRACKET FORMED



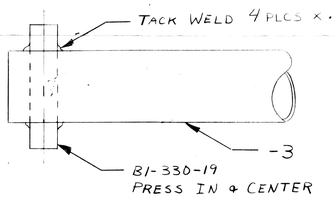
-27 STRAP - LIMITER



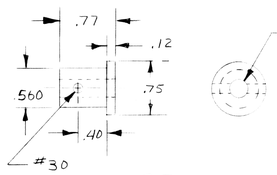
-33 WHEEL BUSHING



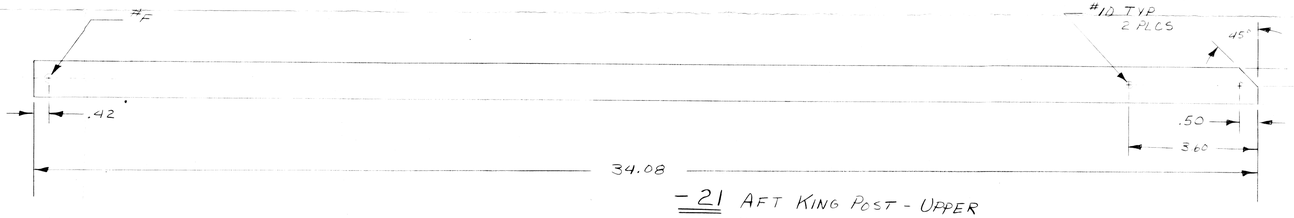
-37 CHAFE TUBE



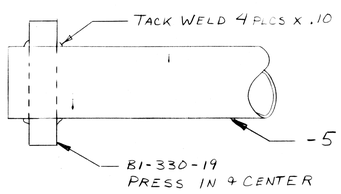
-43 AFT DOWN TUBE ASSY



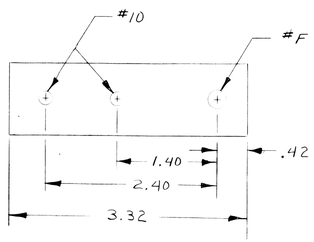
-35 OUTER FENDER ADAPTER



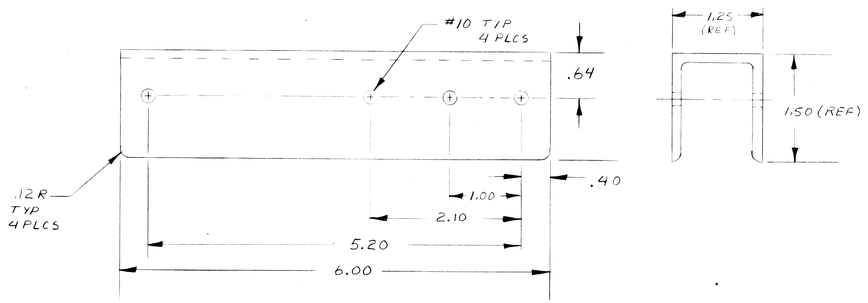
-21 AFT KING POST - UPPER
½ SCALE



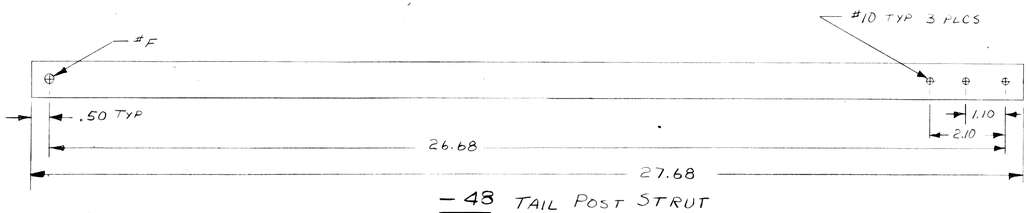
-45 KEEL STRUT ASSY.



-41 AFT KING POST - LOWER



-39 OVER-CENTER CHANNEL



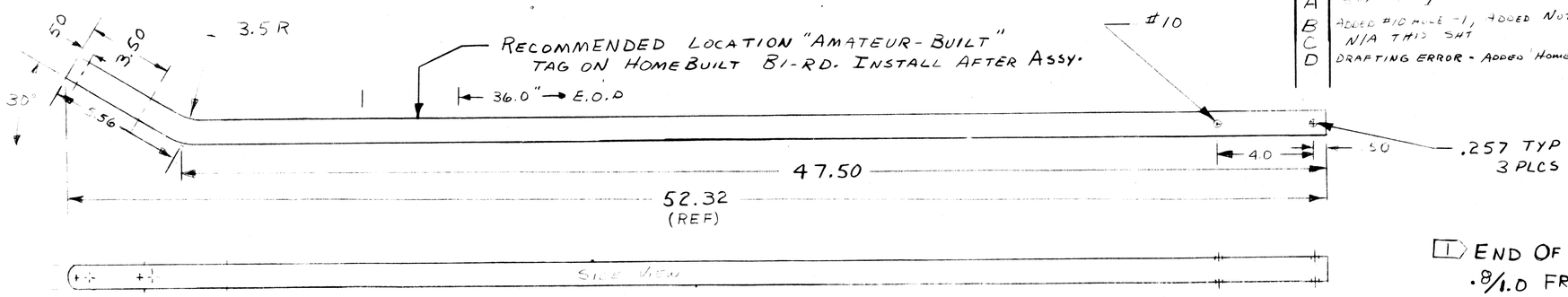
-48 TAIL POST STRUT (85 MODEL, REPLACES -9)
½ SCALE

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES TOLERANCES:		ROBERTSON AIRCRAFT CORPORATION	DRAWING TITLE: FUSELAGE COMPONENTS
TENTHS ± .1		SNOHOMISH COUNTY AIRPORT NORTH COMPLEX BUILDING C-72 EVERETT, WASHINGTON 98204	
HUNDREDTHS ± .03		DRN. B Bashforth 5/2/95	
THOUSANDTHS ± .005		APPR.	DRAWING NUMBER: B1-310
ANGLES: FORMED ± 2°		APPR. Mike Mitchell 5/2/95	REV LTR: C
MACH.: NOTED		MODEL B1-RD	SHEET 3 OF 3
RIVET AND BOLT HOLE EDGE MARGINS ± .05	UNLESS NOTED SCALE FULL		

REV LTR C
SHT 3
DRAWING NUMBER B1-310

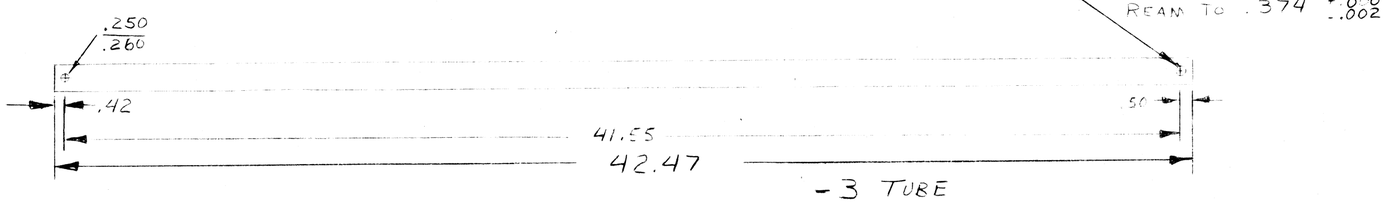
FOR FINISH STANDARDS SEE REPORT

REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	[illegible]		
B	ADDED #10 HOLE -1, ADDED NOTE	11/14/83	
C	N/A THIS SHT	5/20/83	
D	DRAFTING ERROR - ADDED "HOME BUILT"	11/15/83	

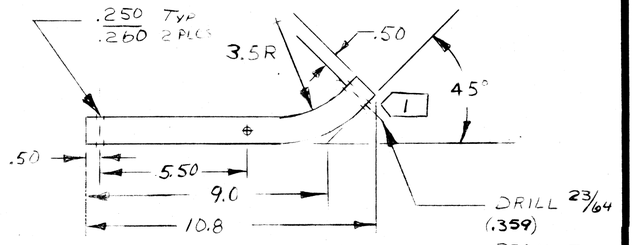


-1 FWD DOWN TUBE

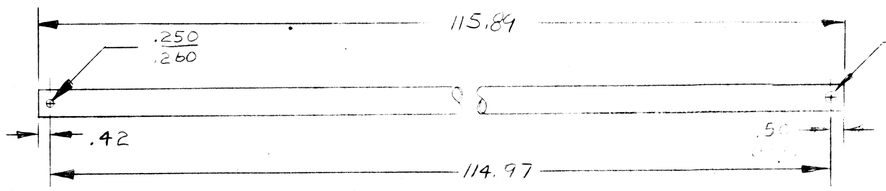
[1] END OF TUBE IS STRAIGHT .8/1.0 FROM EOP.



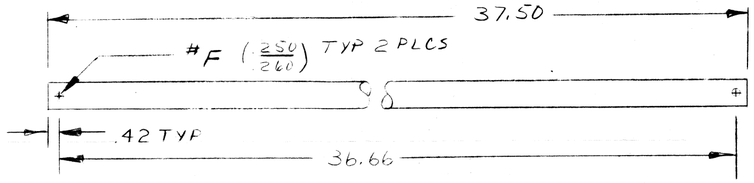
-3 TUBE



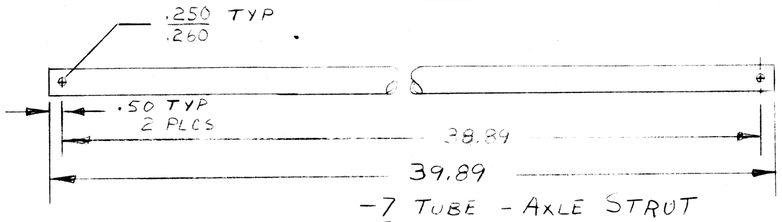
-11 TUBE - TAIL WHEEL SWING ARM



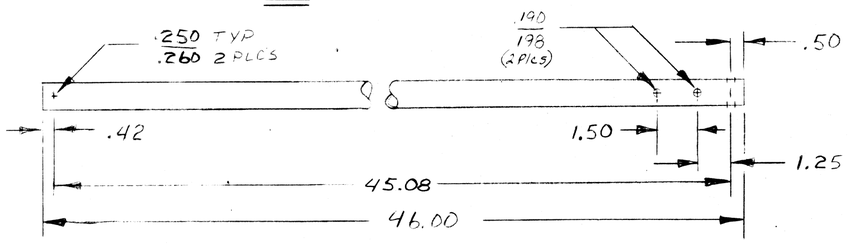
-5 TUBE



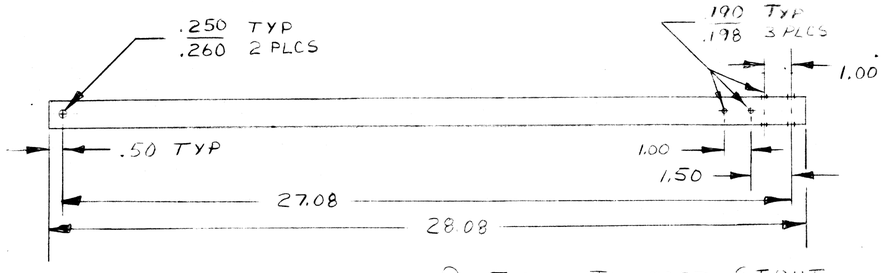
-13 TUBE - AFT KING POST



-7 TUBE - AXLE STRUT



-15 TUBE - FWD KING POST



-9 TUBE - TAILPOST STRUT

NOTE: HOLE SIZE CALLOUTS -

CALLOUT		PREFERRED DRILL SIZE
.250/.260	=	#F
.190/.198	=	#10

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE 1/4

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: Fuselage Components

DRN.	B Bushforth	12-27
APPR.	Mac McClard	6/7/82
APPR.	[illegible]	

DRAWING NUMBER: B1-310

REV LTR: D

MODEL B1-RD

SHEET 2 OF 3

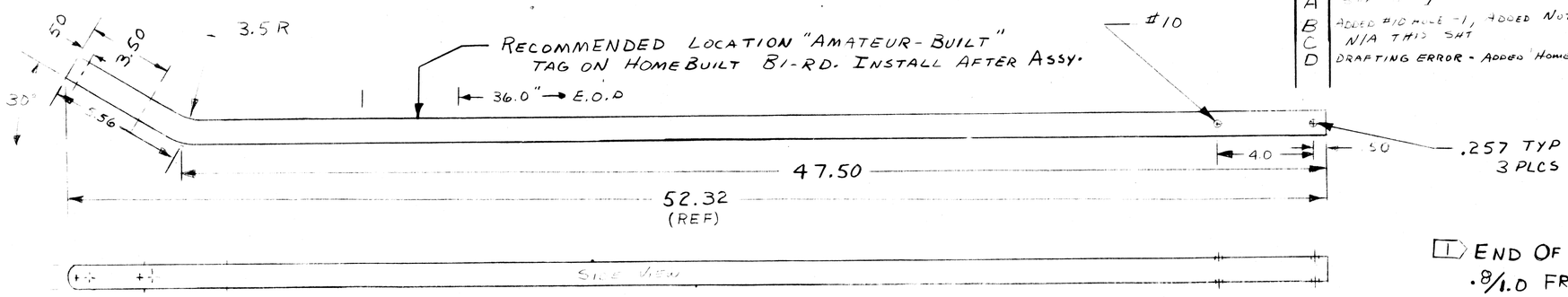
REV LTR D

SHT 2

DRAWING NUMBER B1-310

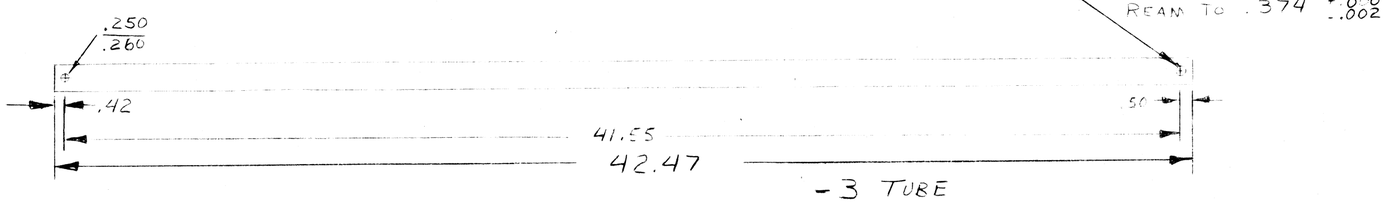
FOR FINISH STANDARDS SEE REPORT

REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	[illegible]		
B	ADDED #10 HOLE -1, ADDED NOTE	11/14/83	
C	N/A THIS SHT	5/20/83	
D	DRAFTING ERROR - ADDED "HOME BUILT"	11/15/83	

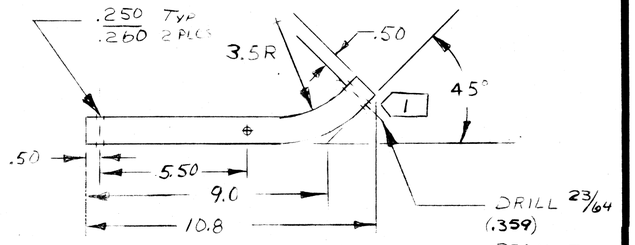


-1 FWD DOWN TUBE

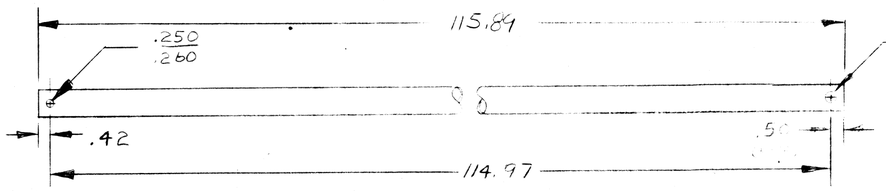
[1] END OF TUBE IS STRAIGHT .8/1.0 FROM EOP.



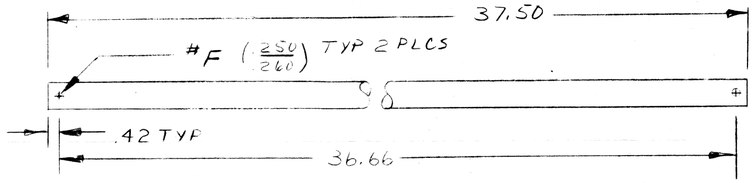
-3 TUBE



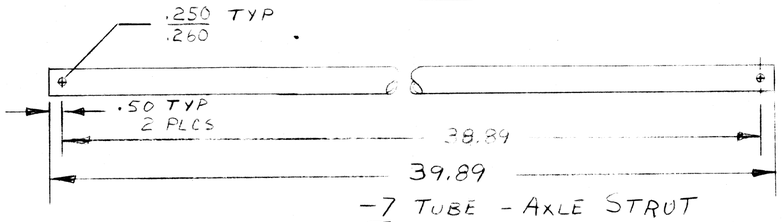
-11 TUBE - TAIL WHEEL SWING ARM



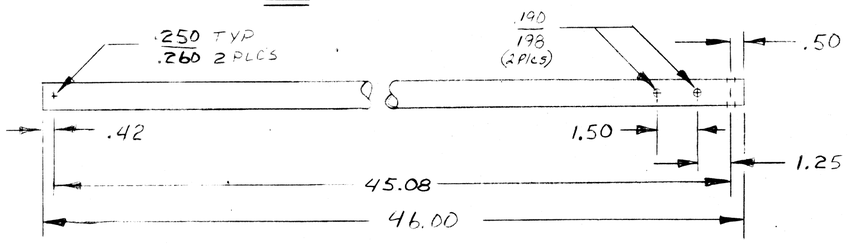
-5 TUBE



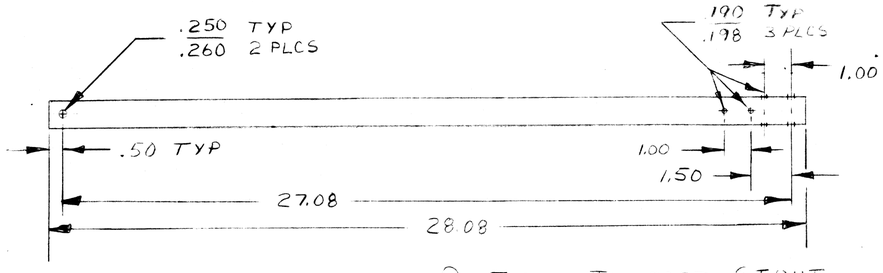
-13 TUBE - AFT KING POST



-7 TUBE - AXLE STRUT



-15 TUBE - FWD KING POST



-9 TUBE - TAILPOST STRUT

NOTE: HOLE SIZE CALLOUTS -

CALLOUT		PREFERRED DRILL SIZE
.250/.260	=	#F
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PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

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TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE 1/4

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: Fuselage Components

DRN.	B Bushforth	12-27
APPR.	Mac McClard	6/7/82
APPR.	[illegible]	

DRAWING NUMBER: B1-310

REV LTR: D

MODEL B1-RD

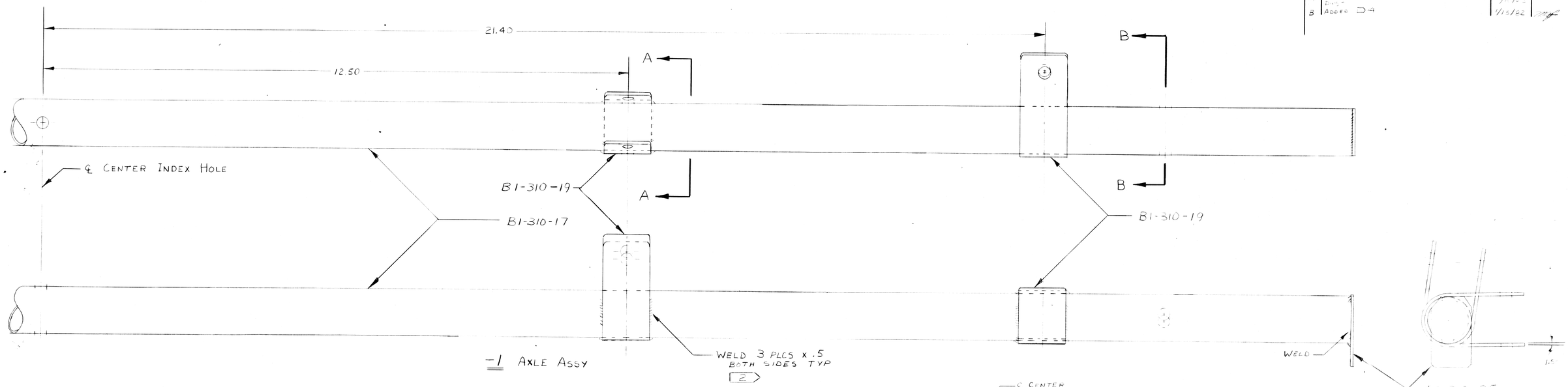
SHEET 2 OF 3

REV LTR D

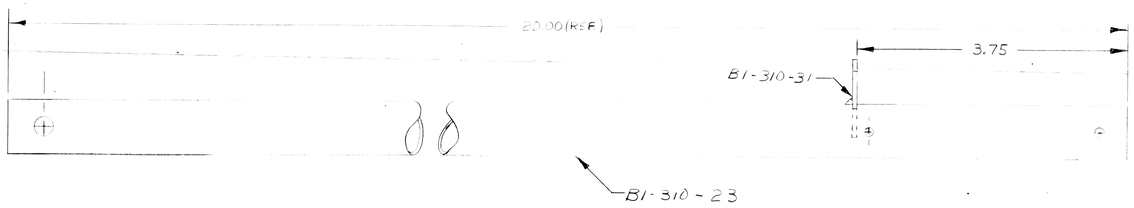
SHT 2

DRAWING NUMBER B1-310

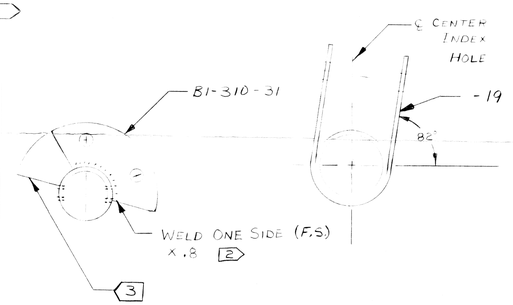
REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	Revised Axle Assy Table Deleted Bracket	8/10-	
B	Added -4	1/13/82	

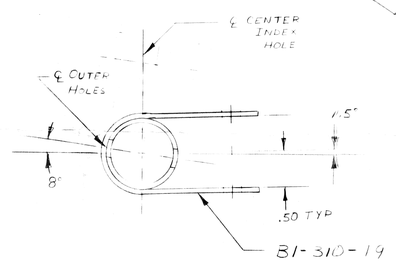


-1 AXLE ASSY



-3 SWING ARM ASSY L.H.
-4 R.H. (OPP -3)





VIEW B-B

3 OPTIONAL E.O.P. ALLOWS USE OPTIONAL B1-310-31 PART (SEE B1-310 SHT 3) HOLE LOCATION REMAINS THE SAME

2 HELIARC WELD PER SPEC. MIL-W-8611A

4 B1-310-31, B1-311-3 & -4 ARE DELETED AS STD PARTS. SEE DCN REV. B

1 CHROME PLATE PER QQ-C-320B - TYPE 1 - CLASS 2 - .001 THICK

						QTY A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
4			1	1			B1-310-31	BRACKET					
					2		B1-310-25	PLATE					
			1	1		2	B1-310-23	TUBE					
					4		B1-310-19	BRACKET					
					1		B1-310-17	AXLE TUBE					
4			~				-4	R.H. (OPP -3)			1		
4				~			-3	SWING ARM ASSY L.H.					
					~	1	B1-311-1	AXLE ASSY			1		
			-4	-3	-1								

QUANTITY/ASSY

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE
EDGE MARGINS ± .05

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SCALE FULL

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: AXLE ASSY

DRN.	B. Bashforth	5-4-82
APPR.		
APPR.		1/13/82

DRAWING NUMBER: B1-311 REV LTR: B

MODEL B1-RD SHEET 1 OF 1

REV LTR B
SH 1
DRAWING NUMBER B1-311

NOTES:

1. SEE 1 SHT 3
2. ACCEPTABLE EXTRUSIONS IN ORDER OF PREFERANCE,
   - 4ND 10133 - 1002
   - TMS 60-137
   - TMS 60-967
   - TMS 60-4645

   ACCEPTABLE MAT'L: IN ORDER: 6061-T6, 2024-T3
3. EFF. S/N 002 - 030
4. EFF S/N 031 + ON
5. EFF. S/N - Opt. S/N 002 - ON

FOR FINISH STANDARDS SEE REPORT 1005.

REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	[illegible]	11/[illegible]	[illegible]
B	ADDED -48 Callout To L/M + SHT 4, ADDED -49 + L/M + SHT 4, Flagnote 5	12-8-86	
C	ADDED M/N HOLE [illegible] CHANGED QTY -112 - ADDED M/N SHT 3	2/16/88	[illegible]

4	-105	WASHER (THROTTLE QUAD.-STICK PIVOT)	1.0 x 1/4 ID x .125 Nylon 66 or Nylatron		—	SHT 2	
1	-101	LOWER L.E. SPAR MOUNT	3.75 x 6.50 x .125 6061-T6 SHT		BIK F205	SHT 2	C
4	-55	WASHER (L.E. SPAR PIVOT)	1.0 OD x .375 ID x .125 Nylon 66 Nylatron		—	SHT 2	
[5] 2	-49	TAIL WHEEL GUSSET	2.54 x 5.80 x .125 6061-T6 PLATE		F205	SHT 4	B
[4] 1/1	-47/-48	T.E. ATTACH CHANNEL	1.375 x 1.43 x .120 6061-T6 CHANNEL (AND 7532)		F205	" "	B
[4] 1	-45	T.E. SPACER	2.00 x 2.00 x .125 6061-T6 SQ. TUBE		F205	" "	A
1	-43	BRACKET - AILERON CROSSOVER	1.50 x 1.00 x .063 6061-T6 ANGLE (TMS60-5565)		BIK F205	" "	
1	-41	DATA PLATE				SHT 5 (B-SIZE)	
1	-39	KEEL END CAP	2.00 x 2.00 x .050 6061-T6 SHT		NONE	SHT 4	
4	-37	MOTOR MOUNT DOUBLER	.75 x 2.0 x .25 6061-T6 SHT		BIK F205	" "	
1	-35	BRACKET - AIL. CABLE TURNING	1.0 x 1.0 x .094 6061-T6 ANGLE [2]		BIK F205	" "	
1	-33	BRACKET - FWD RUDDER CABLE	1.50 x 3.35 x .063 6061-T6 SHT		BIK F205		
1	-31	SWITCH BRACKET	2.0 x 2.0 x .063 6061-T6 SHT		BIK F205		
1	-29	CABLE GUIDE - LONG	2.0 x 4.0 x .25		[illegible]		
1	-27	CABLE GUIDE - SHT	2.0 x 2.0 x .25 (UHMW-PE) or Nylon 66 - Polypropylene		[illegible]		
1	-25	AFT STAB ATTACH	1.00 x 2.50 x .125 - 6061-T6/6063-T6 (60-354 / MA4420)		BIK F205		
1	-23	FWD STAB ATTACH	1.00 x 1.50 x .125 6061-T6/6063-T6 (AND 10134-1404)		BIK F205	SHT 1	
28	-21	CORNER SPLICE	1.80 x 2.40 x .050 6061-T6 SHT		BIK F205	SHT 3	
2	-19	COMPRESSION TUBE	3/8 x .058W x 1.73 6061-T6 TUBE	[1] SHT 3	NONE		
2	-17	COMPRESSION TUBE	3/8 x .058W x 1.98 6061-T6 TUBE		F205		
2	-15	ATTACH ANGLE	1.25 x 1.00 x .125 6061-T6 ANGLE		BIK F205		
1	-13	JUNCTION PLATE	3.82 x 4.44 x .25 6061-T6 PLATE		BIK F205		
[3] 2	-11	T.E. ATTACH CHANNEL	1.25 x 1.50 x .125 6061-T6 CHANNEL (AND 10137-1207)		BIK F205		A
[3] 1	-9	T.E. SPACER	2.00 x 2.00 x .125 6061-T6 Sq. Tube		BIK F205	SHT 3	A
2	-7	KING POST JUNCTION	2.0 x 2.0 x .063 6061-T6 SHT		BIK F205	SHT 2	
2	-5	WASHER (FWD DN TUBE)	1.00 OD x 1/2 ID x .19 Nylon 66 or Nylatron		F205		
1	-3	ATTACH FITTING - FWD DN TUBE	2.50 x 1.75 x .156 6061-T6 CHANNEL (AND 10137-2401)		BIK F205		
1	B1-330-1	UPPER L.E. SPAR MOUNT	3.75 x 6.50 x .125 6061-T6 SHT		BLACK F205	SHT 2	
QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS · .1
HUNDREDTHS · .03
THOUSANDTHS · .005
ANGLES: FORMED · 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS · .05

SCALE

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRN. B Bashforth 10-14 86
APPR.
APPR.

DRAWING TITLE: L/M - FUSELAGE FITTINGS

DRAWING NUMBER: B1-330

REV LTR: C

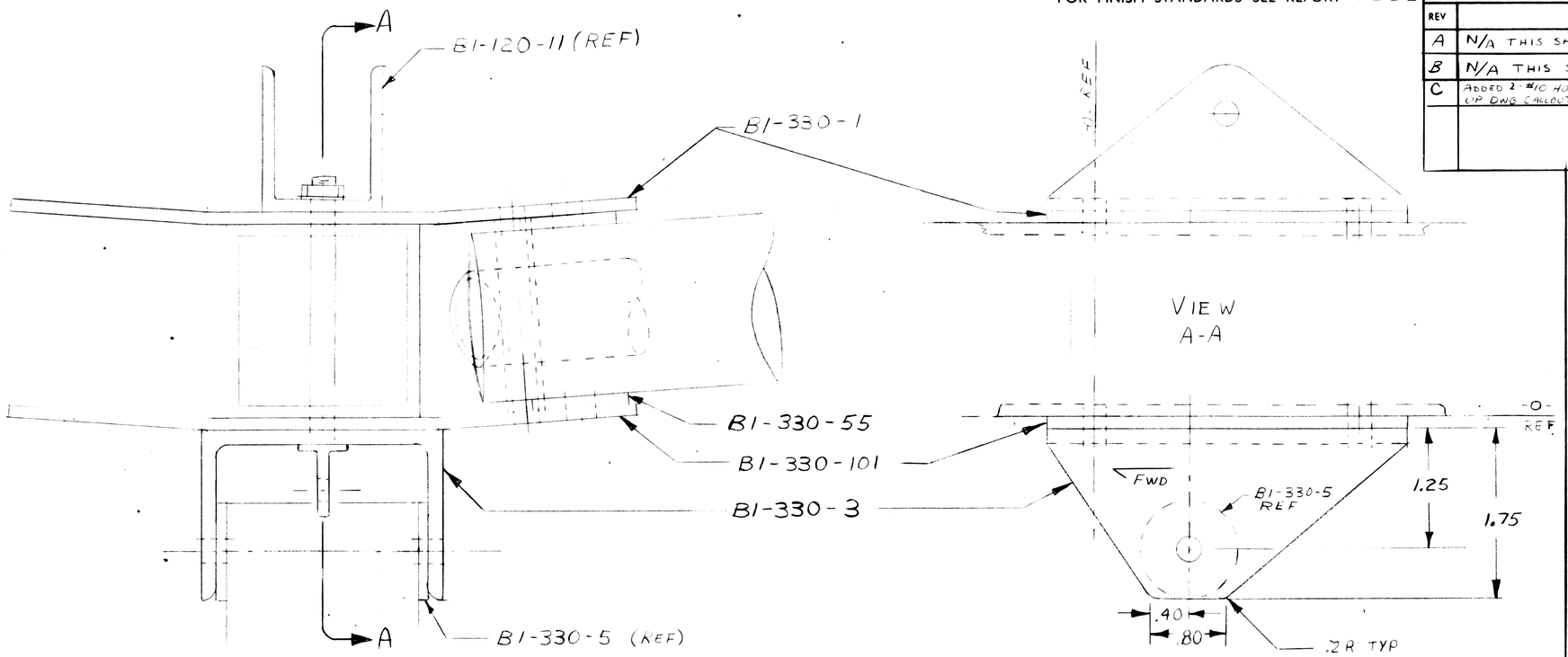
MODEL B1-RD

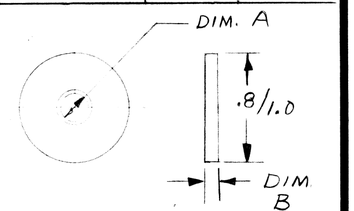
SHEET 1 OF 5

DRAWING NUMBER B1-330 SHT 1 REV LTR C

FOR FINISH STANDARDS SEE REPORT 1005

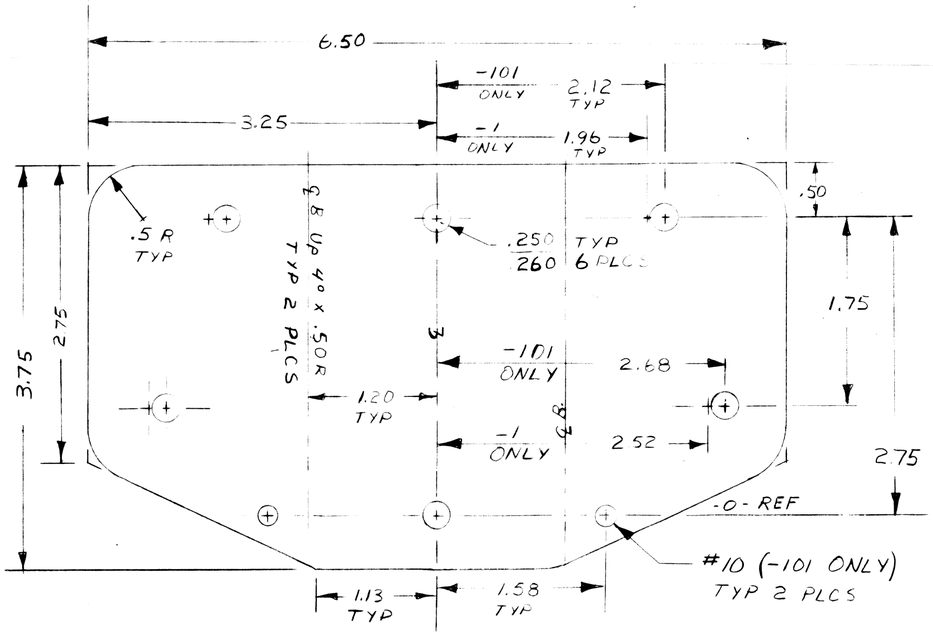
REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	N/A THIS SHT	7/13/82	
B	N/A THIS SHT	12/8/82	
C	ADDED 2 - #10 HOLES -101, ADDED NOTE, CLEANED UP DWG CALLOUTS	2/16/83	





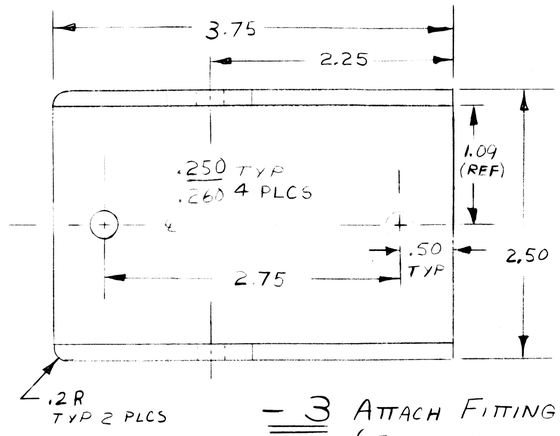
WASHER - PLASTIC

	DIM. A		DIM. B.
-5 =	.250 / .262	~	.090
-55 =	.375 / .390	~	.125
-105 =	.250 / .262	~	.125

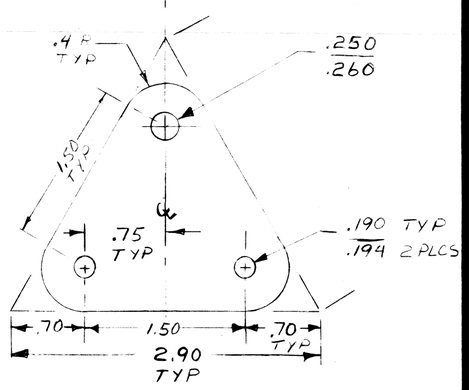


-1 UPPER L.E. SPAR MOUNT (F/P SHOWN)

-101 LOWER L.E. SPAR MOUNT (SAME AS -1 EXCEPT AS NOTED)



-3 ATTACH FITTING (FWD DN TUBE)



-7 KING POST JUNCTION

NOTE: HOLE SIZE CALLOUTS -

CALLOUT		PREFERED DRILL SIZE
.250 / .260	=	# F
.190 / .198	=	# 10

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

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HUNDREDTHS ± .03
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SCALE FULL

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: FUSELAGE FITTINGS (SPAR MOUNT REF)

DRN.	B Bashforth	10/22/81
APPR.	Glenn Bashforth	10-24-81
APPR.		

DRAWING NUMBER: B1-330

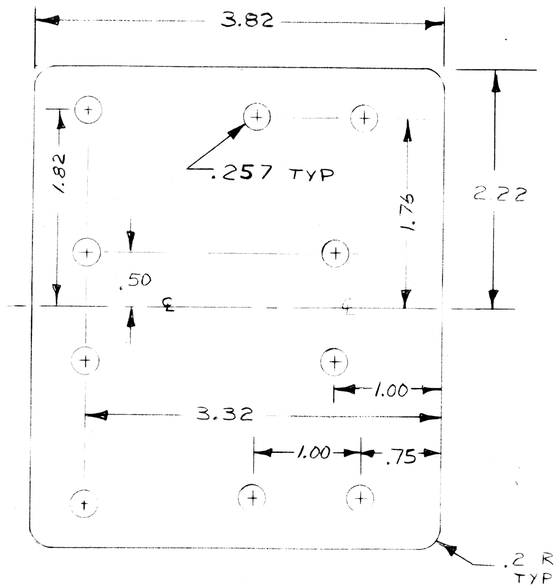
REV LTR: C

MODEL B1-RD

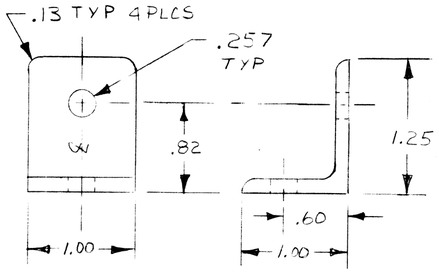
SHEET 2 OF 5

REV LTR C
DRAWING NUMBER B1-330 SHT 2

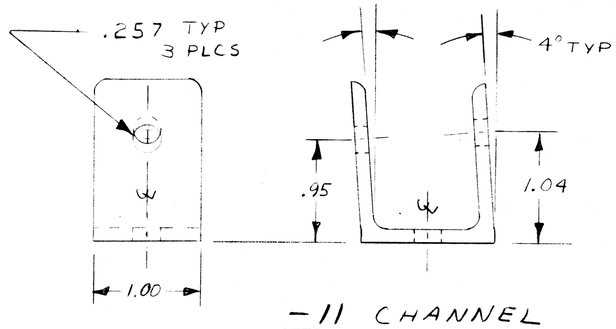
REVISION			
REV	DESCRIPTION	DATE	APPROVED
C	REDREW SHT 3 - NO CHANGES	9-4-83	



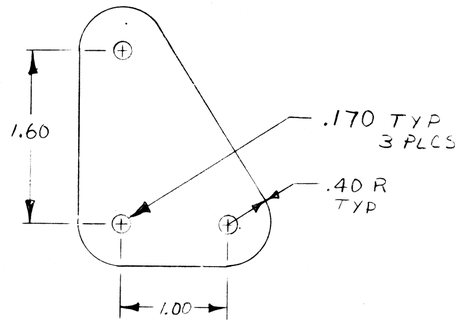
-13 JUNCTION PLATE



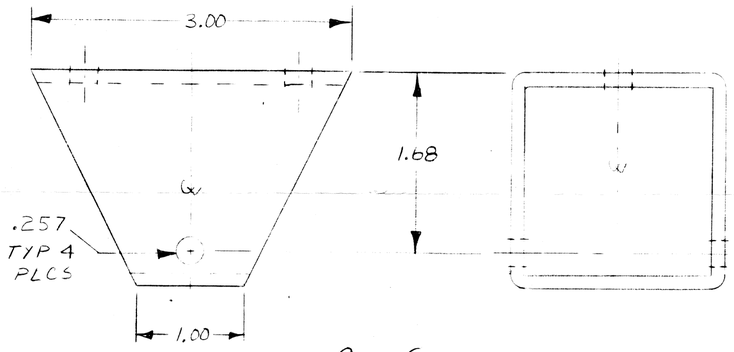
-15 ANGLE



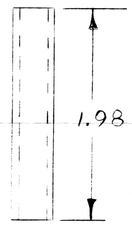
-11 CHANNEL



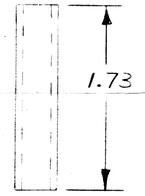
-21 CORNER JUNCTON



-9 SPACER



-17 TUBE



-19 TUBE

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± ½°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE FULL

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRN.	B. Bashforth	4/1/83
APPR.		
APPR.		

DRAWING TITLE: FUSELAGE FITTINGS

DRAWING NUMBER: B1-330

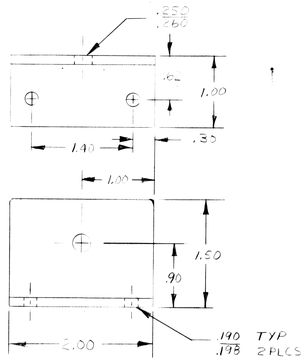
REV LTR: C

MODEL B1-RD

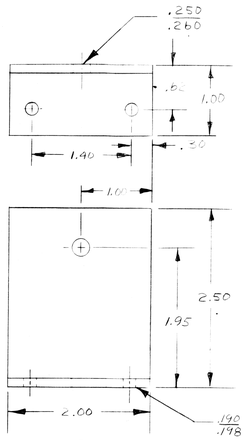
SHEET 3 OF 5

REV LTR C

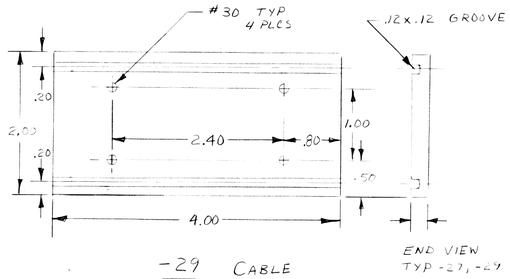
DRAWING NUMBER B1-330 SHT 3



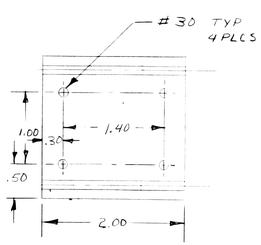
-23
FWD STAB ATTACH



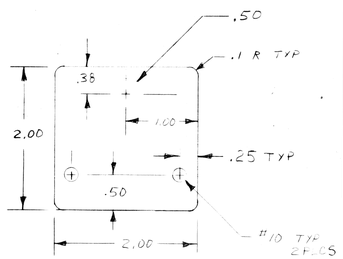
-25
AFT STAB ATT



-29 CABLE GUIDE

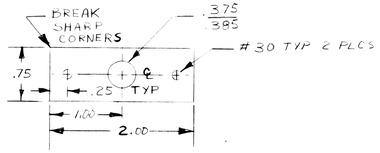


-27 CABLE GUIDE

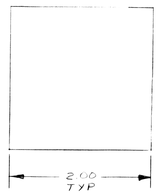


-31 BRACKET

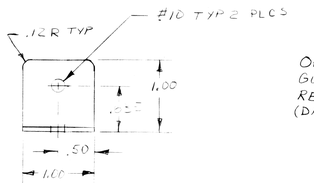
REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	[illegible]	-	
B	ADDED -49 PLATE, ADDED -49 SHEET	12-28-82	
C	N/A THIS SHT	2/16/83	



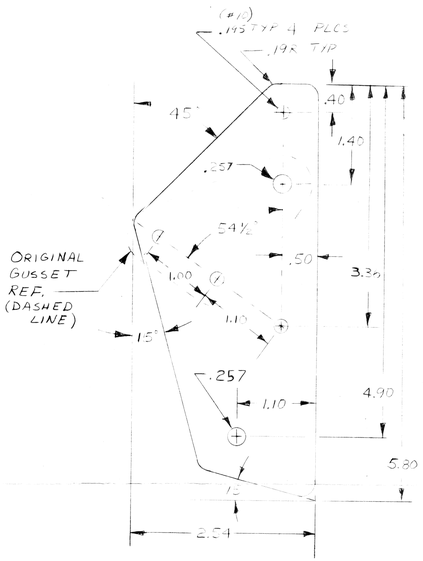
-37 DOUBLER



-39 CAP

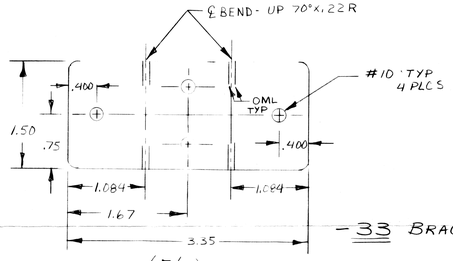


-43 BRACKET

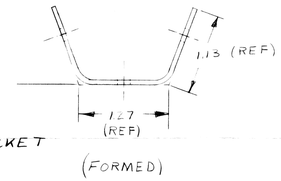


ORIGINAL GUSSET REF. (DASHED LINE)

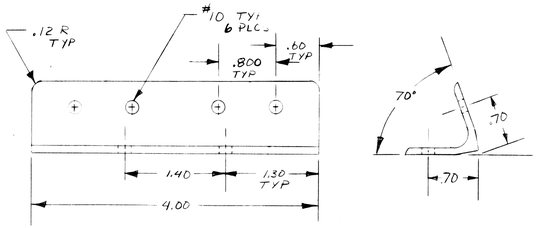
-49 TAIL WHEEL GUSSET



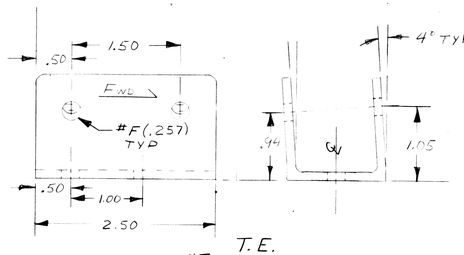
-33 BRACKET
(F/P)



(FORMED)

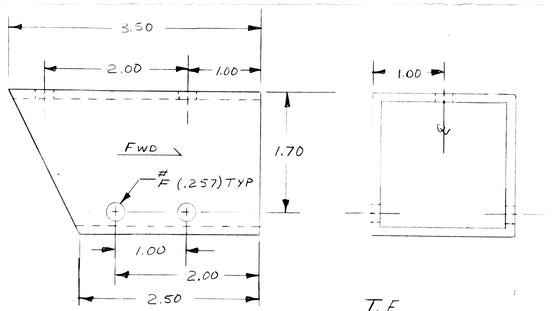


-35 BRACKET



T.E.
-47 ATTACH CHANNEL

-48 OPP



T.E.
-45 SPACER

L/M ON SHT 1

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES TOLERANCES:	
TENTHS	± .1
HUNDREDTHS	± .03
THOUSANDTHS	± .005
ANGLES: FORMED	± 2°
MACH.: NOTED	
RIVET AND BOLT HOLE EDGE MARGINS	± .05

SCALE FULL

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: FUSELAGE FITTINGS

DRN. B. Bashforth 12-8-82
APPR. [illegible]
APPR.

DRAWING NUMBER: B1-330 REV LTR: C

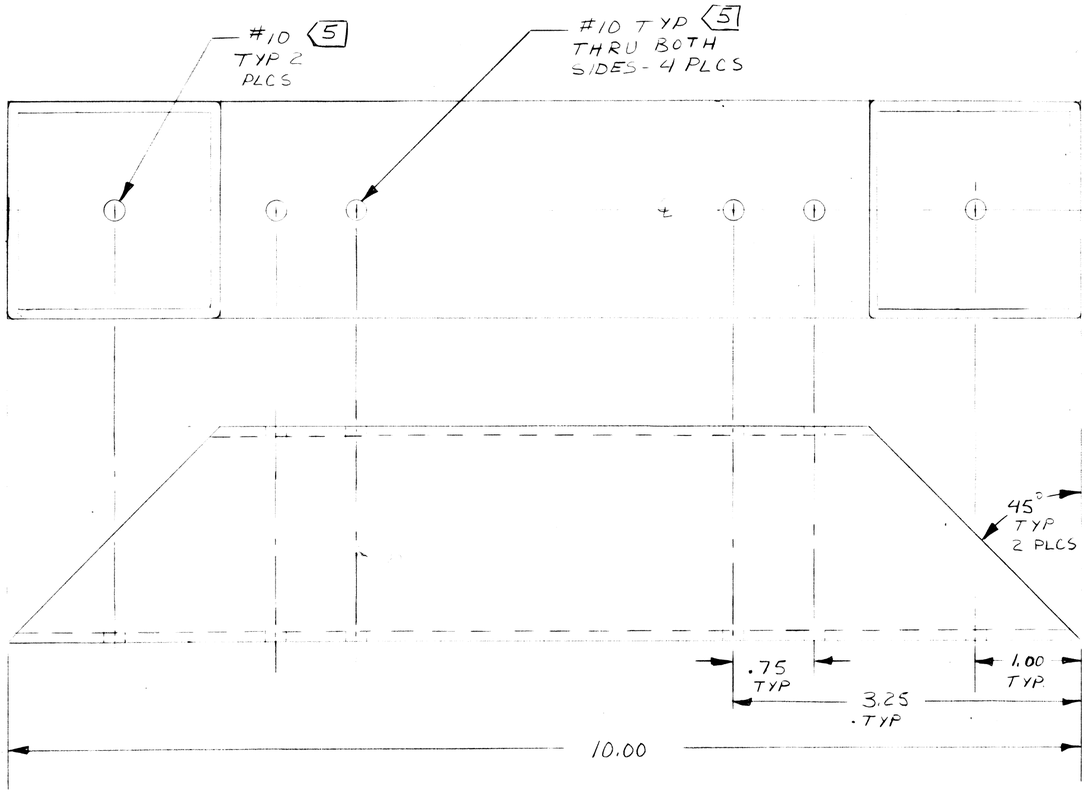
MODEL B1-RD

SHEET 4 OF 5

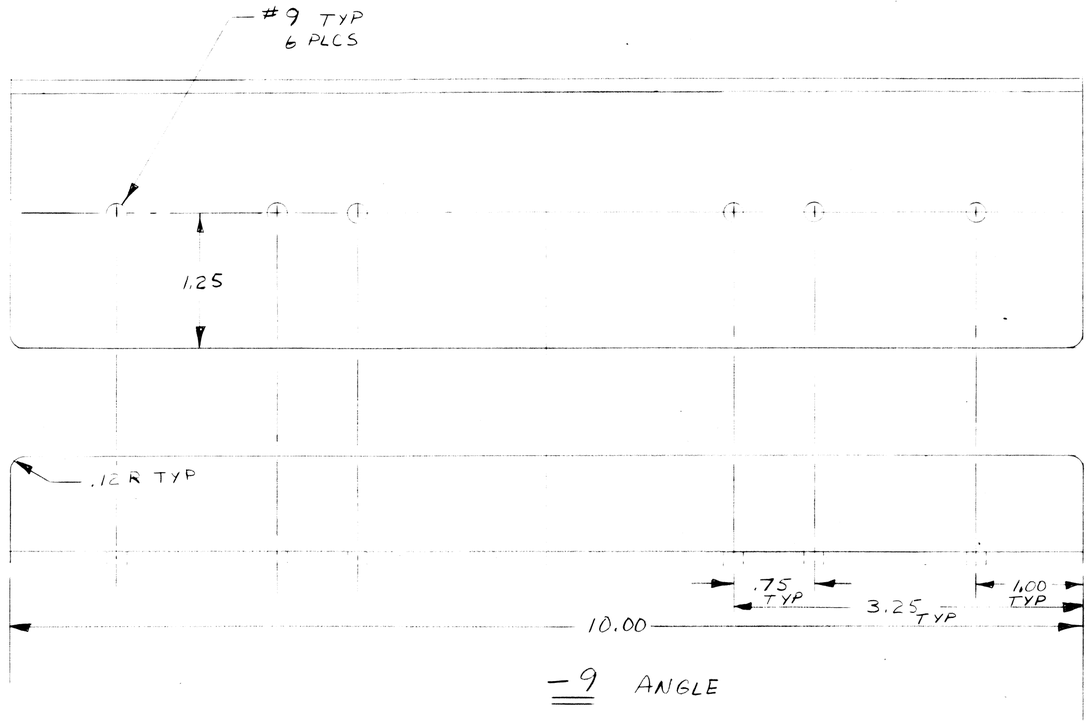
DRAWING NUMBER B1-330 SHT 4 REV LTR C

FOR FINISH STANDARDS SEE REPORT 1005.

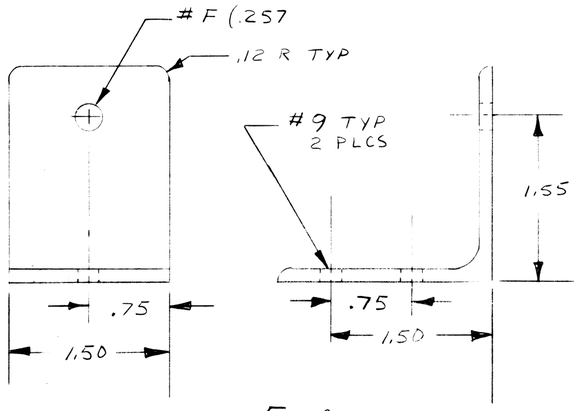
REVISION			
REV	DESCRIPTION	DATE	APPROVED



-7 TUBE



-9 ANGLE



-5 ANGLE

NOTES:
1. ALT. MAT = 6063-T832, 2024-T3
2. ALT. WALL THICKNESS = .125 ROUND CORNER (RC) OR SQUARE CORNER (SC) ACCEPTABLE
3. ALT. MAT: 6063-T832, -T6, -T52, 2024-T3
4. ALT. EXTRUSION = TMS 60-3787, -2487, -7226
5. #9 HOLE ACCEPTABLE

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
1	-9	ANGLE	TMS 60-354 (4) 2.5x1.0x.094 ANGLE 6061-T6 (3)		BIK F205		
1	-7	TUBE	6061-T6 (3) 2.0x2.0x.094 (2) SQUARE TUBE				
4	-5	ANGLE BRACKET	AND10133-2002 2.0x2.0x.125x1.50 ANGLE 6061-T6	(1)	BIK F205		
	-3						
	B1-340-1						

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE FULL

DRAWING TITLE: SEAT MOUNT - DETAIL PARTS

DRN.	B. Bashforth	6-29-82
APPR.	[illegible]	7/1/82
APPR.		

DRAWING NUMBER: B1-340

REV LTR

MODEL B1-340

SHEET 1 OF 2

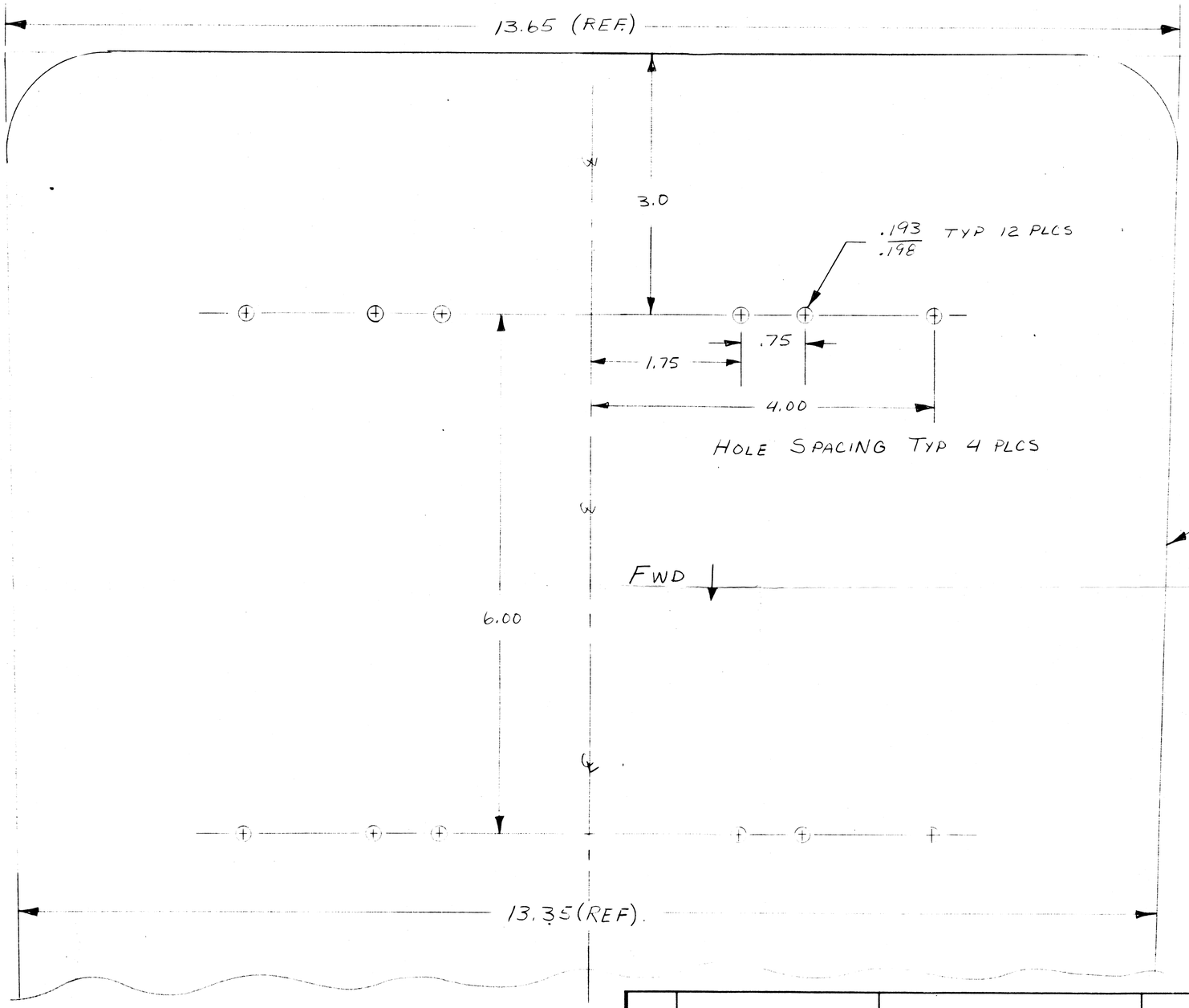
DRAWING NUMBER B1-340

REV LTR

FOR FINISH STANDARDS SEE REPORT 1005.

REVISION			
REV	DESCRIPTION	DATE	APPROVED

BOTTOM VIEW OF SEAT



NOTES:

1. LESLIE ENTERPRISES
   3514 ATWATER BLVD.
   ATWATER, CAL.
   95301
   (209) 358-7141

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
1	B1-340 - 3	SEAT SHELL	LESLIE MODEL 100 SEAT BASE [1]		/		

PART NO.	USED ON APPLICATION	SERIAL NO.	USED ON DRAWING

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE FULL

DRAWING TITLE: SEAT SHELL HOLE PATTERN

DRN.	B. Bashforth	6-30-82
APPR.	[illegible]	7/1/82
APPR.		

DRAWING NUMBER: B1-340

REV LTR

MODEL B1-RD

SHEET 2 OF 2

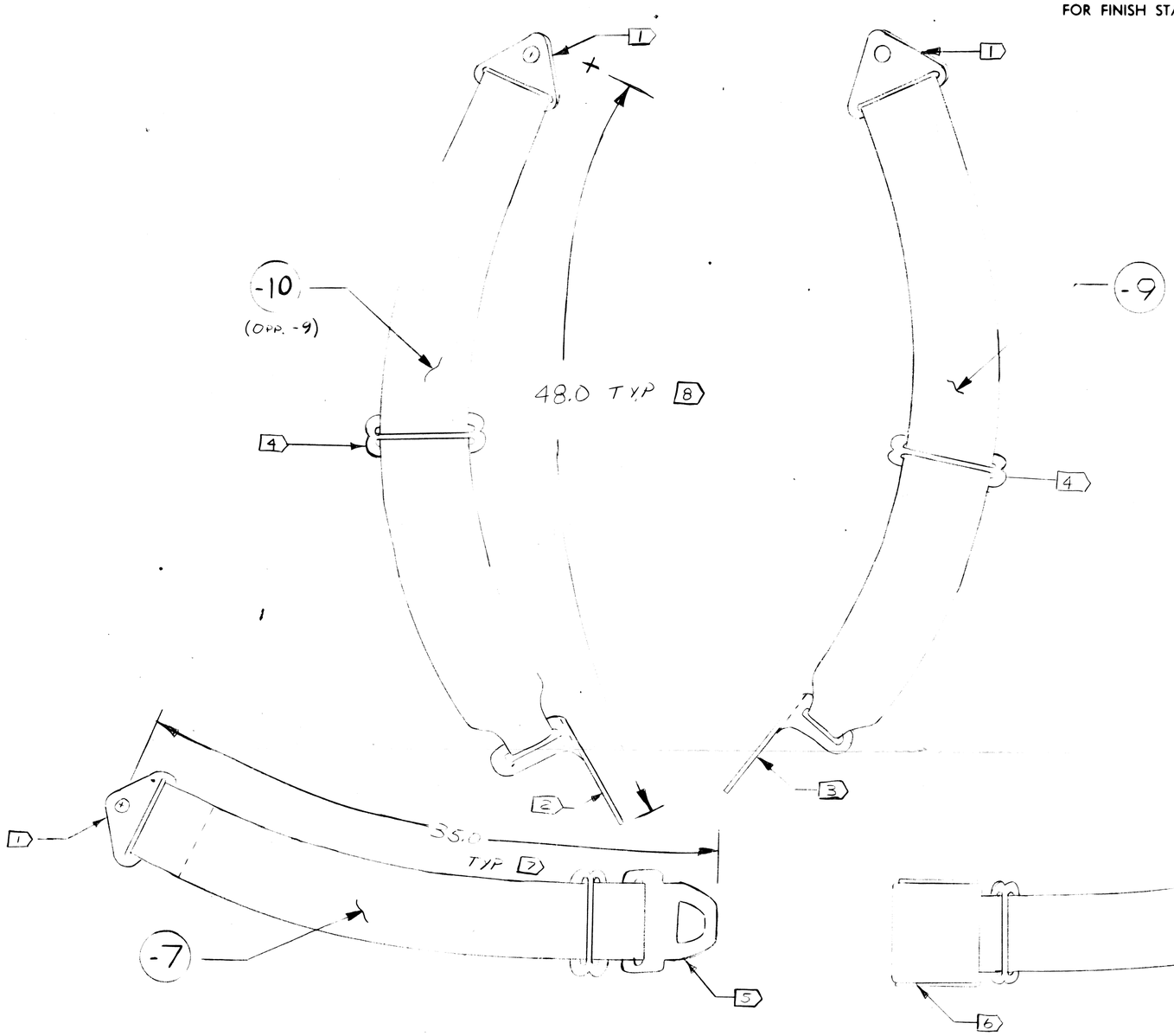
REV LTR

DRAWING NUMBER B1-340

SHT 2

FOR FINISH STANDARDS SEE REPORT 1005.

REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	CHANGED DWG TO REFLECT CURRENT BELT	3/3/83	



NOTES:

1. = PART REF = AMERICAN SAFETY EQUIP. #1050-1 (A.S.)
2. = PART REF = A.S. # ASE442658
3. = PART REF = A.S. # ASE442659
4. = ADJUSTER TYPE OPTIONAL
5. = PART REF = A.S. # 500535
6. = PART REF = A.S. # 5000B3
7. ACCEPTABLE LENTH RANGE = 32.5 MIN (FULLY EXTENDED) 36.5 MAX
8. ACCEPTABLE LENTH RANGE = 46.0 MIN (FULLY EXTENDED) 54.0 MAX

-1 BELT ASSY

STRENGTH REQ = 1500 lbs MIN BREAKING STRENGTH TYP
MUST MEET F.A.A. TSO C22F OR BETTER

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
1	-10 OPP	BELT - SHOULDER	48 x 2 x 1/16 NYLON WEB +	END			
1	-9	BELT	48 x 2 x 1/16 NYLON WEBING +	}			
1	-7	BELT - LAP	35 x 2 x 1/16 NYLON WEBING +	}			
1	-5	BELT "	35 x 2 x 1/16 NYLON WEBING +	END			
1	-1	SEAT BELT ASSY.	1 EA ALL ABOVE				

PART NO.			

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE NO SCALE

ROBERTSON AIRCRAFT CORPORATION
839 West Perimeter Road
Renton, Washington 98055
(206) 228-5000

DRAWING TITLE: SEAT BELT ASSY.

DRN.	B.D. HALL	5/17/82
APPR.		
APPR.		

DRAWING NUMBER: B1-345 REV LTR: A

MODEL B1-RD SHEET 1 OF 1

REV LTR 4
DRAWING NUMBER B1-345

NOTES: [1] FINISH F-209 OPTIONAL

REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED SHT 1 WITH L/M 1, ADDED -21 TO L/M 9 TO -1 CALLOUT SHT 3, ADDED [1] 1, 2, 4 3,	2-10-83	

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
1	-21	TAIL POST	1.00 x .049 W - PER WW-T-700/6 6061-T6 TUBE		F-211 [1]	SHT 3	
2	-19	SPLICE TUBE	1.125 x .058 W - PER WW-T-700/6 6061-T6 TUBE				
2	-17	STAB RIB	1.00 x .049 W - PER WW-T-700/6 6061-T6 TUBE				
2	-15	EL. T.E					
2	-13	ELEVATOR SPAR					
2	-11	STAB. SPAR					
2	-9	STABILIZER T.E.					
1	-7	RUDDER					
1	-5	RUDDER SPAR					
1	-3	VERTICAL FIN					
1	B1-400 -1	TAIL POST	1.00 x .049 W - PER WW-T-700/6 6061-T6 TUBE		F-211 [1]	SHT 3	A

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE —

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: EMPENNAGE COMPONENTS

DRN.	B. BASHFORTH	2/1/83
APPR.		4/12/83
APPR.		

DRAWING NUMBER: B1-400

REV LTR: A

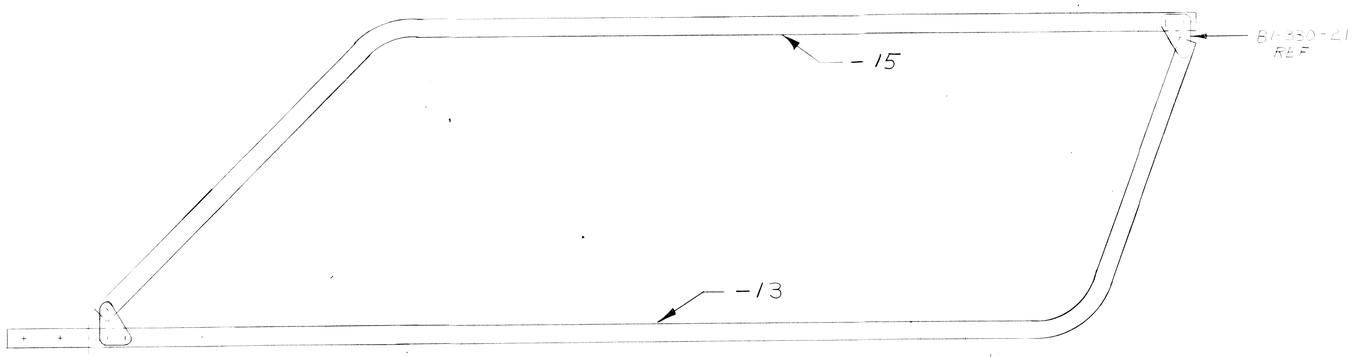
MODEL B1-RD

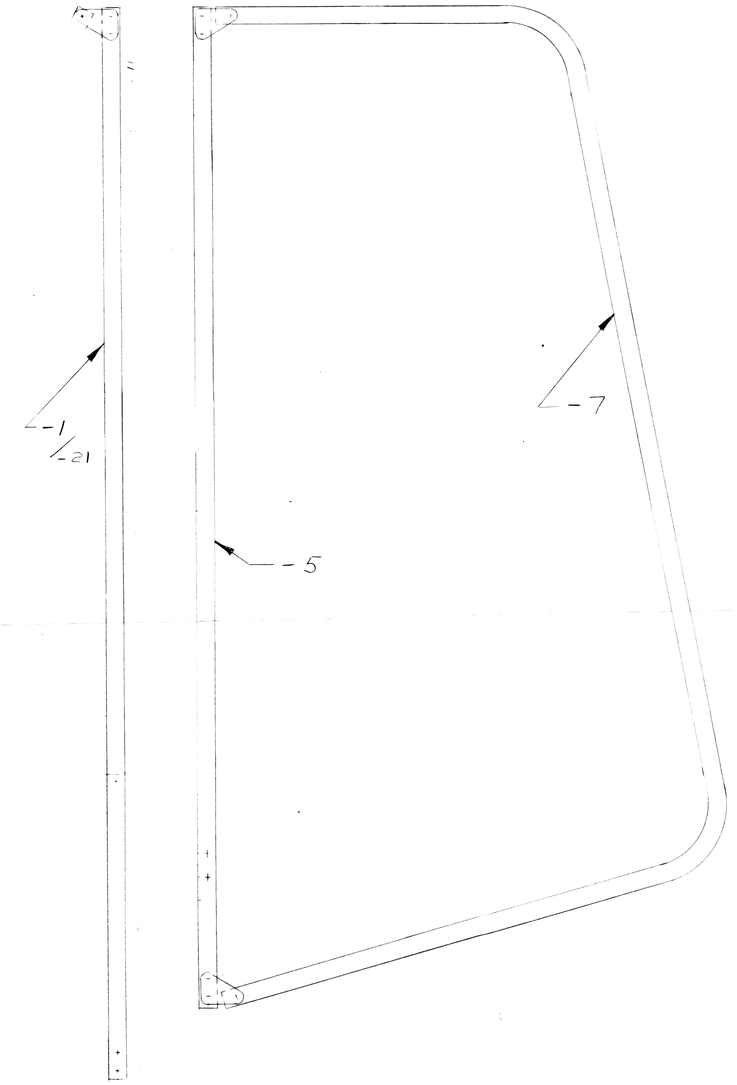
SHEET 1 OF 3

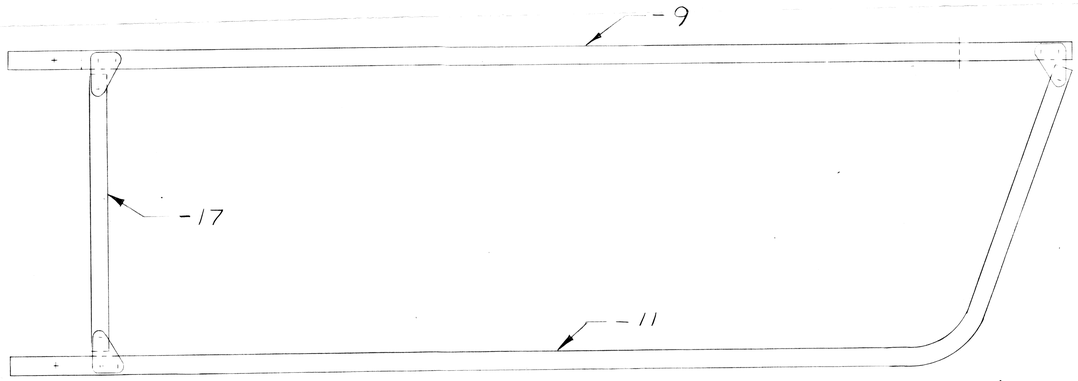
DRAWING NUMBER B1-400

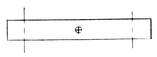
REV LTR A

REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CUT 1 - ADDED SHEET 3 OF 3	2-4-85	[illegible]









UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES TOLERANCES:			
TENTHS	± .1		
HUNDREDTHS	± .03		
THOUSANDTHS	± .005		
ANGLES: FORMED	± 2°		
MACH.: NOTED			
RIVET AND BOLT HOLE EDGE MARGINS	± .05	SCALE 1/4	

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: EMPENNAGE REF. DWG

DRN.	B. Bashforth	5-19-82
APPR.	[illegible]	6/14/82
APPR.		

DRAWING NUMBER: B1-400

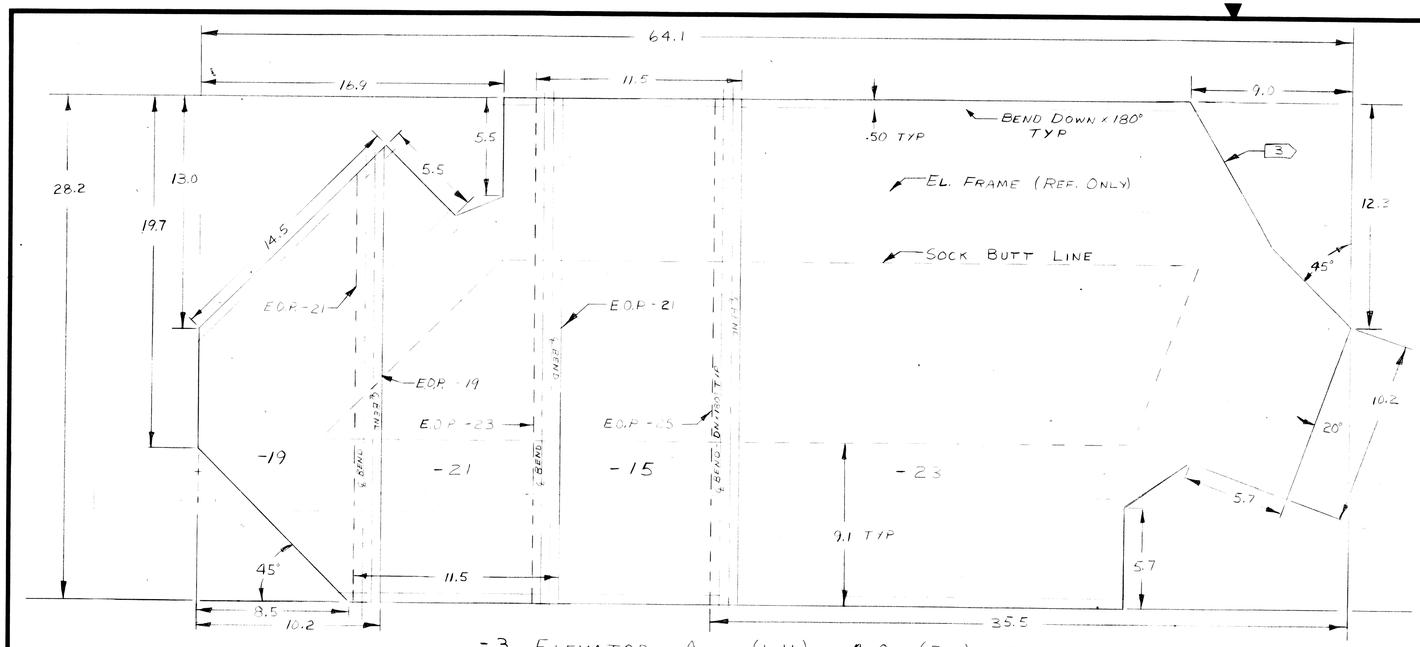
REV LTR: A

MODEL: B1-RD

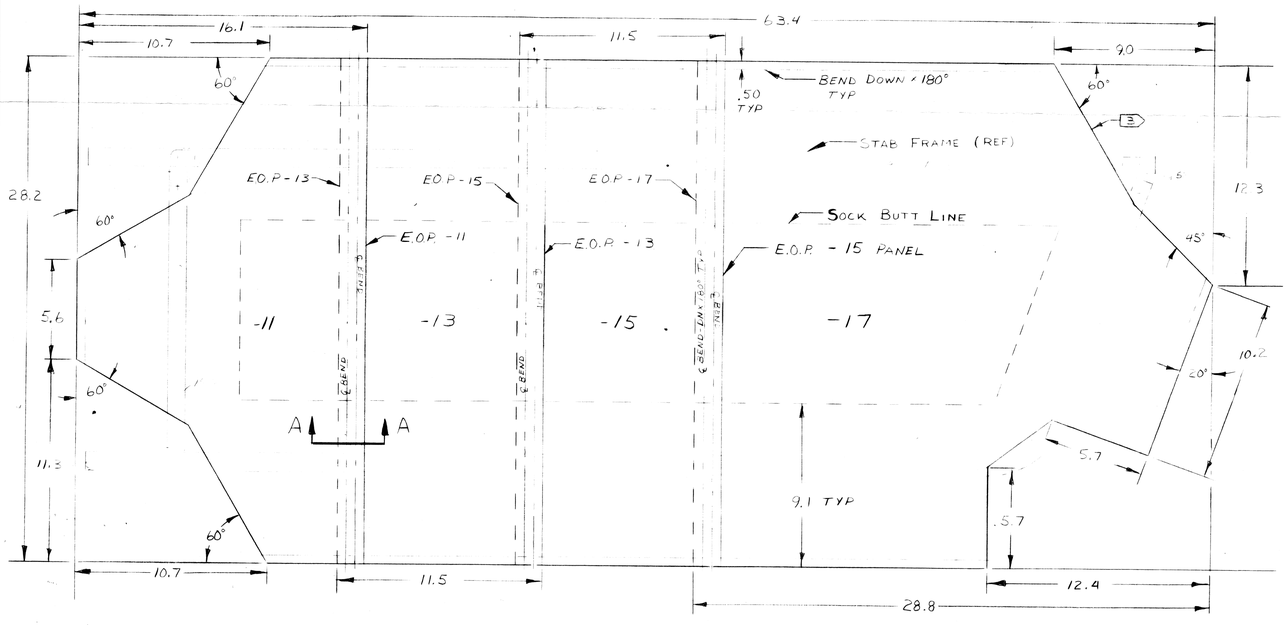
SHEET 2 OF 3

REV LTR: A

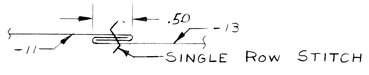
DRAWING NUMBER: B1-400 SHT 2



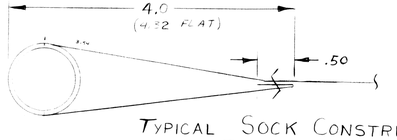
-3 ELEVATOR ASSY (L.H.) -4 OPP (R.H.) F/P SHOWN



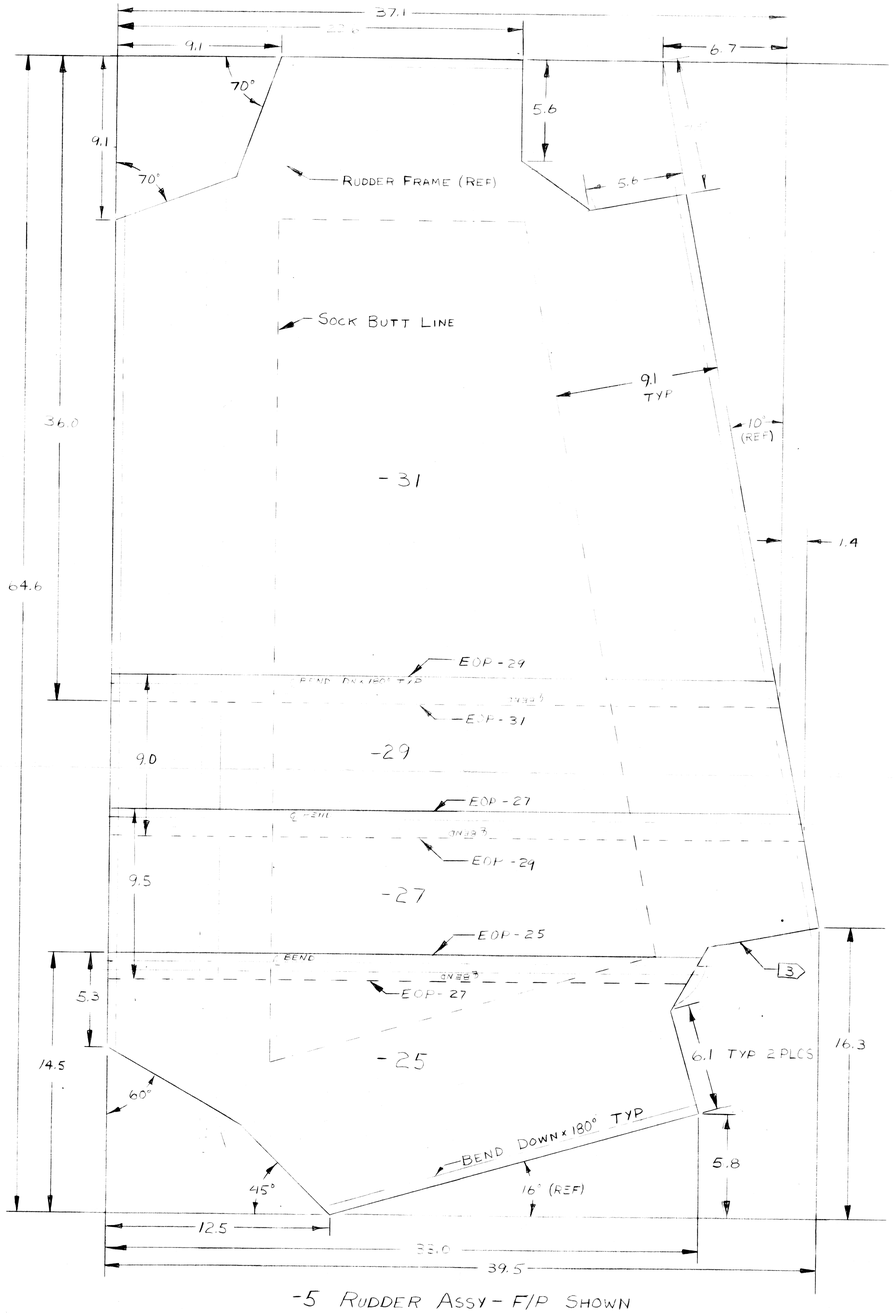
-1 STABILIZER ASSY. (L.H.) -2 OPP (R.H.) F/P SHOWN



VIEW A-A - TYP. ALL SEAMS
AFTER ASSY
FULL SCALE



TYPICAL SOCK CONSTRUCTION
FULL SCALE



-5 RUDDER ASSY - F/P SHOWN

NOTE: THIS DRAWING OBSOLETE AS OF 6-1-83 - SEE SHT 4 FOR CURRENT DWG.

SEE SHEET 1 FOR L/M

REV	DESCRIPTION	DATE	APPROVED
A	THIS SHT OBSOLETE AS OF 6-1-83	5/11/83	

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE 1/4

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE
PRE-'83 MODEL
EMPENNAGE FLAT PATTERNS
OBSOLETE AS OF 6-1-83

DRN.	B. Bashforth	4-29-83
APPR.	[signature]	5/11/83
APPR.		

DRAWING NUMBER B1-421

REV LTR A

MODEL B1-RD

SHEET 2 OF 5

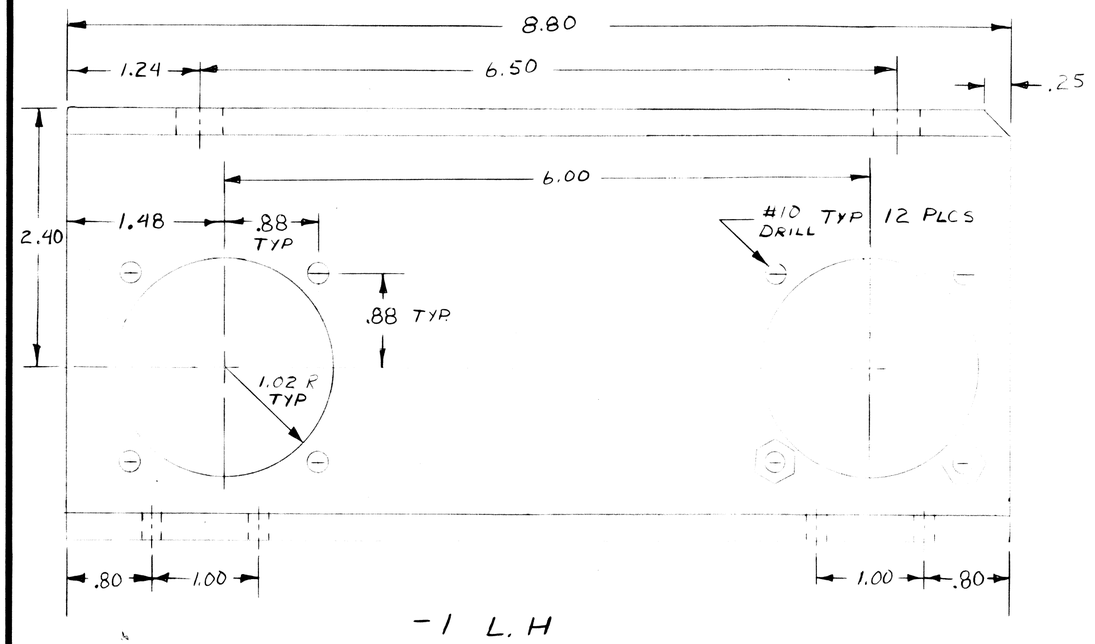
REV LTR A

SHT 2

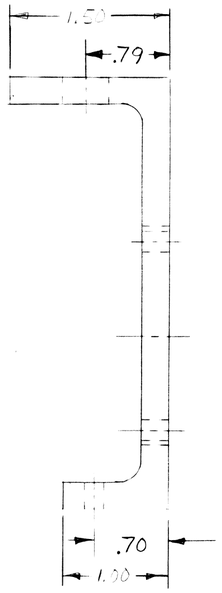
DRAWING NUMBER B1-421

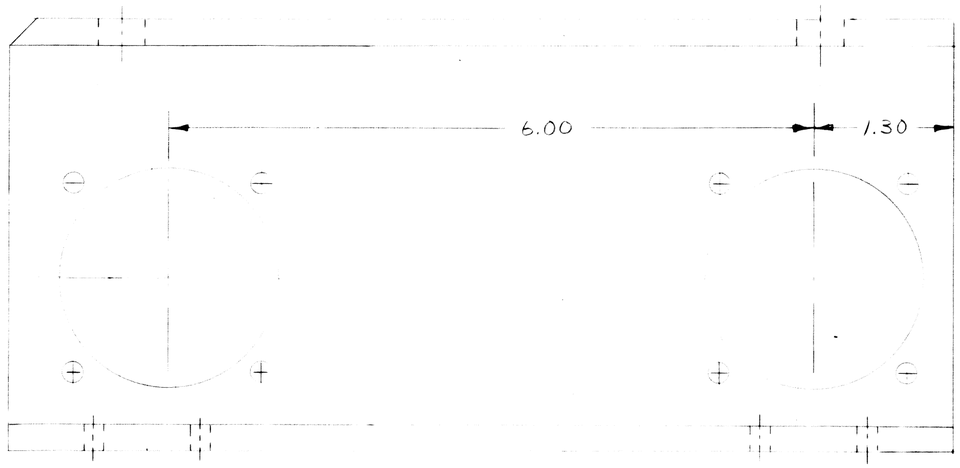
FOR FINISH STANDARDS SEE REPORT

REVISION			
REV	DESCRIPTION	DATE	APPROVED

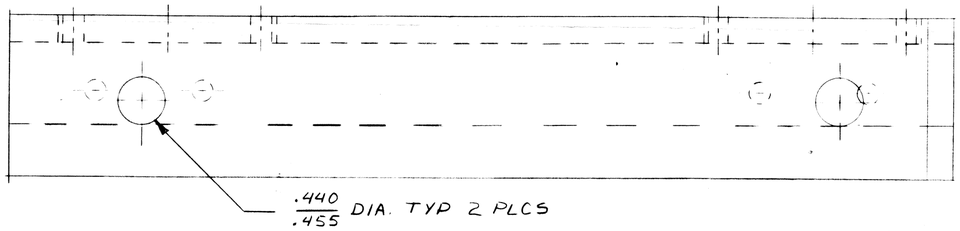


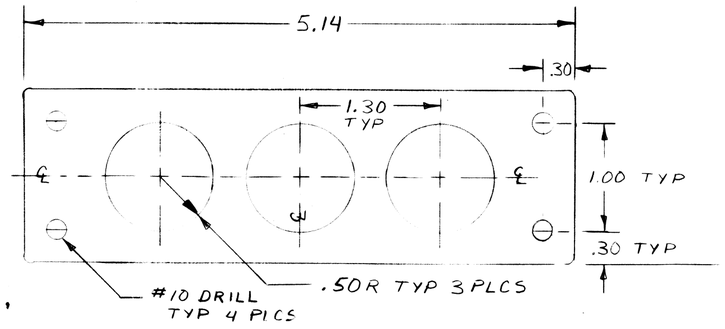
-1 L.H





-3 R.H. (OPP -1)
DIM SAME AS -1
EXCEPT AS NOTED





-5

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
2	B1-517-5	PLATE	.125 SHEET 6061-T6				
1	B1-517-3	CHANNEL - R.H. MOUNT	4.00 x 2.00 x .25 6061-T6 CHANNEL				
1	B1-517-1	CHANNEL - L.H MOUNT	4.00 x 2.00 x .25 6061-T6 CHANNEL				

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE

DRAWING TITLE
MOTOR MOUNT
430 CUYUNA - PLANETARY RED.

DRN.	B. Bashforth	4-19-82
APPR.	[illegible]	4/19/82
APPR.		

DRAWING NUMBER
B1-517

REV LTR

MODEL B1-RD

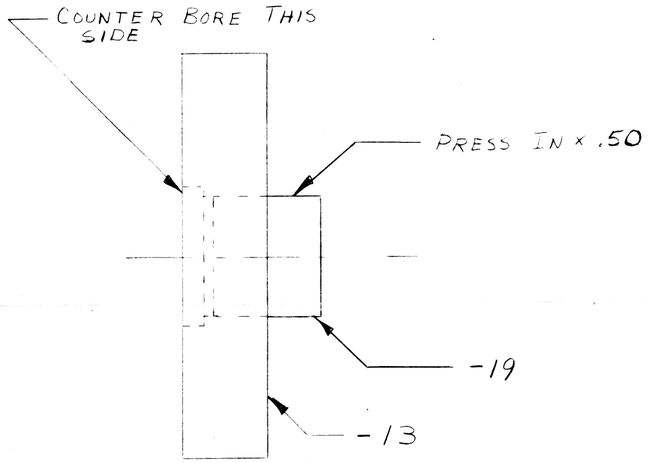
SHEET 1 OF 1

REV LTR

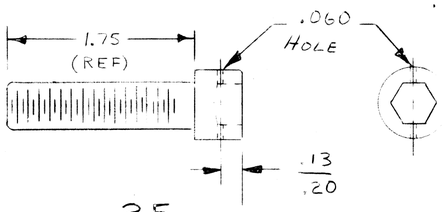
DRAWING NUMBER B1-517

NOTES:

1. PRESS IN NAS 77 A 4-10 BUSHING - ADD "ASSY" TO PART NAME -
2. SPLIT -9 INTO TOP (SECTION A) AND BOTTOM (SECTION B) HALVES AS LAST OPERATION - OPTIONAL BY W/O
3. OPTIONAL MAT'L = 2.00 X 4.00 X .25 6061 T6 EXT
4. -43/-44 ONLY - HOLE SIZE .377 +.003 -.001
5. -43/-44 ONLY - DELETE THIS HOLE & SPOT FACING - IGNORE IF REWORKING -3/-4
6. -43/-44 ONLY - ADD 1.00 R HOLE



-33 SPACER ASSY



-25 BOLT

FOR FINISH INFO. SEE B1-RD FINISH CODE

REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	(4) - ADD -9 HALVES A & B	4-1-83	
B	TOTAL DWG UPDATE - SEE DCN	3/7/83	
C	ADDED -42 ASSY, -43/-44, -45, -47/-48, -49 AND -50 ASSY - ADDED (5), 4, 5, T6 -	5/23/83	

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
1/1	-55/-56	MOTOR MOUNT CHANNEL L HAND (UPRIGHT ENGINE)	1.50/2.0 X 4.00 X .25 PA17136 OR EQ 6061-T6 CHANNEL		F-205	SHT 8	
1	-53	PULLEY - ENGINE 3.40 D	3.40 D X 2.0 PER QQ-A-225/8 6061-T6 ROD		F-205	SHT 6	
1	-51	PULLEY - ENGINE 3.25 D	3.25 D X 2.0 PER QQ-A-225/8 6061-T6 ROD		F-205	SHT 9	
1	-50	SPACER ASSY	1 EA -49 + 1 EA -19		—	SHT 7	
1	-49	PROP SPACER LIGHT WT.	.80 X 3.75 D. 6061-T6 PLATE		F.205	SHT 7	
2	-48	ECCENTRIC MOUNT UPPER	1.40 X 6.0 X .500 6061-T6 PLATE		F-205	SHT 7	
2	-47	ECCENTRIC MOUNT LOWER	1.5 X 6.0 X .500 6061-T6 PLATE		F-205	SHT 7	
1	-45	SHAFT - PROPELLER	1.000 X 8.25 - 4130 CDN PER MIL-S-6758 ROD		F-301	SHT 7	
1/1	-43/-44	MOTOR MOUNT CHANNELS L.H. & R.H	1.50/2.00 X 4.00 X .25 PA17136 OR EQ. 6061-T6 CHA.		F-205	SHT 7	
1	-42	PULLEY ASSY LIGHT WEIGHT	1 EA -41, 1 EA -45, + 2 EA SKF - 6205-2RS BALL BEARING		—	SHT 5	
1	-41	PULLEY - PROP (9.36 D) L+ W+	10.0D X 2.0 PER QQ-A-200/8 6061-T6 ROD		F-205	SHT 7	
	-39						
	-37						
	-35						
1	-33	PROP SPACER ASSY	1 EA -13 SPACER + 1 EA -19 TUBE		—	SHT 1	
1	-31	PULLEY - ENGINE (3.55D)	2.00 X 3.75 - PER QQ-A-225/8 6061-T6 ROD		F-205	SHT 3	
	-29						
	-27						
4	-25	BOLT - ENGINE MOUNT	7/16 X 14 X 1 3/4 GRADE - ALLEN BOLT		F-000	SHT 1	
1 (1)	-23	THROTTLE ARM - REMOTE	.68 X 3.34 X .125 QQ-A-250/11 6061-T6 SHT		R LK F205	SHT 2	
4	-21	SPACER - ENGINE	5/8 ID X 1.0 OD - 6061-T6 HELIOBAR 1.000 DIA X .65 - OR - 6061-T6 ROD		F205 BLACK		
1 - PER -33 ASSY	-19	TUBE	1.125 X .058 W - PER WW-T-796/16 6061-T6 TUBE		F205 BLACK		
1	-17	WASHER	5.0 ID X 1.25 X .100 Per MIL-S-6758 4130 CDN-ROD		F.301		
1	-15	PLATE	.125 X 4.00 D - Per QQ-A-250/11 6061-T6 SHT		F-205 BLACK		
1 - PER -33 ASSY	-13	SPACER - PROP	.80 X 3.75 D - Per QQ-A-250/11 6061-T6 PLATE				
1	-11	PULLEY - ENGINE (3.00D)	3.00 DIA X 2.00 - Per QQ-A-200/8 6061-T6 ROD				
2/2	-9A/B	ECCENTRIC MOUNT	.500 X 3.75 X 5.85 - 6061-T6 PLATE				
1	-7	ECCENTRIC SHAFT	2.000 X 4.80 - PER QQ-A-225/8 6061-T6 Rod		F205 BLACK		
1	-5	SHAFT	1.000 X 7.75 - Per MIL-S-6758 4130 CDN ROD		F 301		
1/1	-3/-4	CHANNEL - MOTOR MOUNT - L.H. & R.H.	1.50/2.0 X 4.00 X .25 PA17136 OR EQ 6061-T6 CHANNEL	(3)	F205 BLACK	SHT 2	
1	-1 ASSY	LARGE PULLEY ASSY	1 EA -1, 1 EA -5, 2 EA SKF 6205-2RS BEARING			SHT 5	
1	81-536-1	PULLEY - PROP (10.60D)	2.00 X 10.60 D 6061-T6 PLATE		F205 BLACK	SHT 4	

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS · .1
HUNDREDTHS · .03
THOUSANDTHS · .005
ANGLES: FORMED · 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS · .05

SCALE

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRN.	B. Bashforth	5-18-82
APPR.		6/9/82
APPR.		

DRAWING TITLE
MOTOR MOUNT - L/M
430 COYUNA - BELT DRIVE

DRAWING NUMBER
81-536

REV LTR
C

MODEL 81-RD

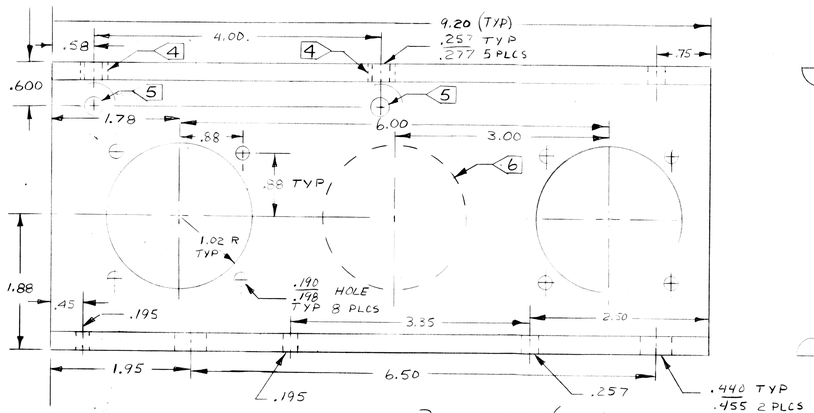
SHEET 1 OF 9

REV LTR C

DRAWING NUMBER 81-536

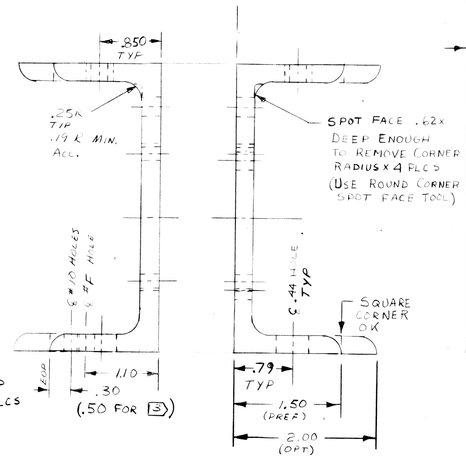
SH 1

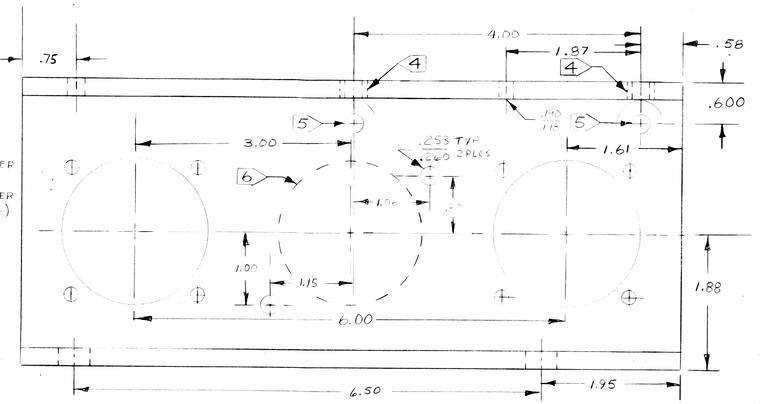
REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	(1) SPLIT -3 INTO -43/-5	1-5-88	
B	DWG UPDATE - SEE DCN	3-24-88	DJA
C	ADDED -43/-44 CALLOUTS TO -3/-4 - ADDED (4), (5) & (6)	5-20-88	MK
D	REVISED - 3/4/1 - 7-7-89	4-19-93	



-3 CHANNEL, (L. H.) MOTOR MOUNT

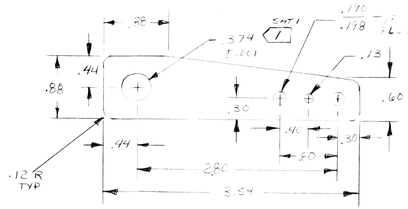
-43 (4) (5) (6)



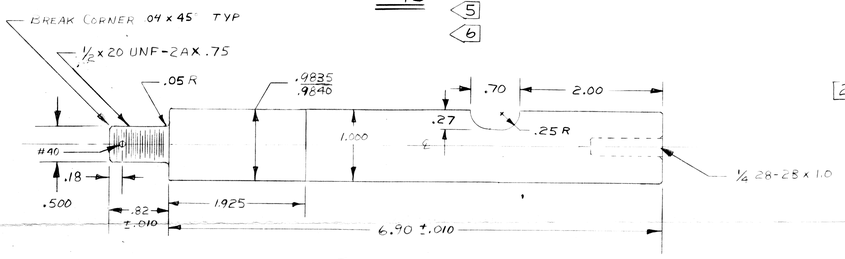


-4 CHANNEL R.H. — SAME AS -3 EXCEPT AS NOTED

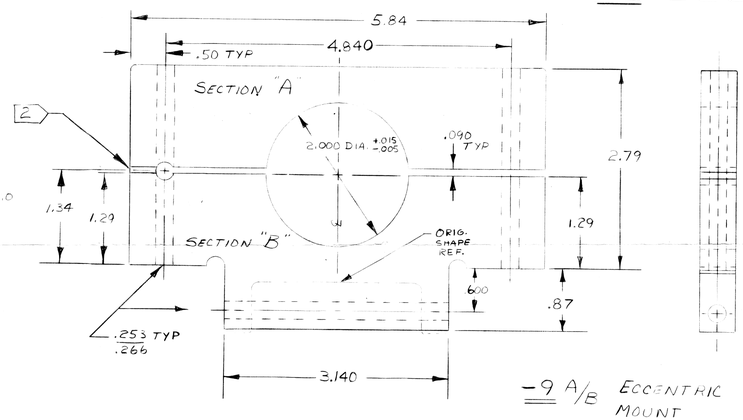
-44 (4) (5) (6) SAME AS -4 EXCEPT AS NOTED



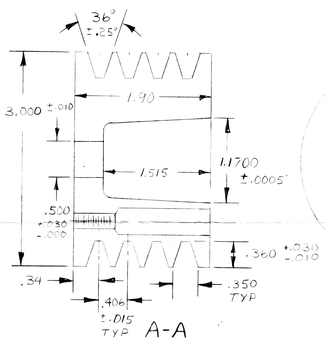
-23 ARM (1) SHT 1



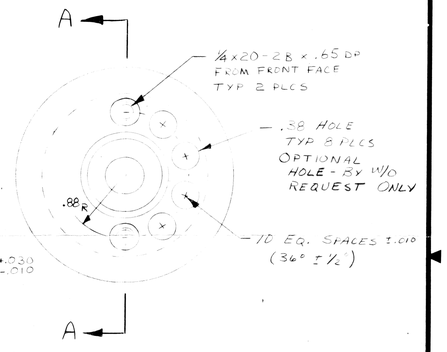
-5 SHAFT, PROPELLER

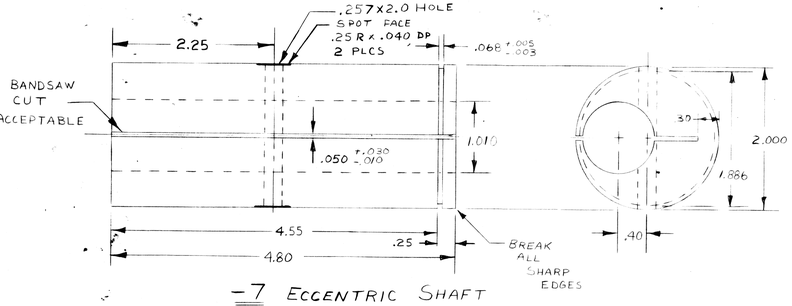


-9 A/B ECCENTRIC MOUNT

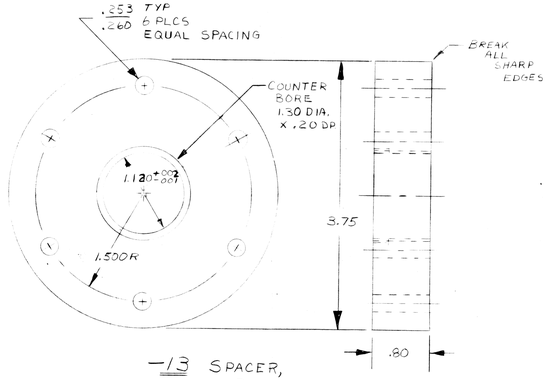


-11 PULLEY - ENGINE

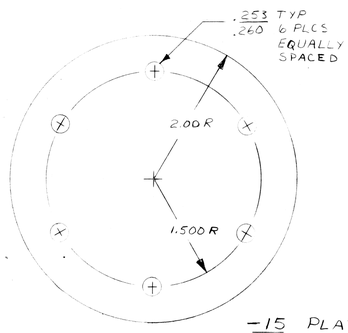




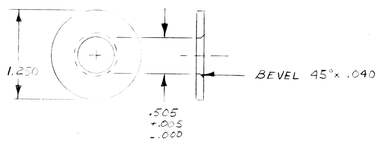
-7 ECCENTRIC SHAFT



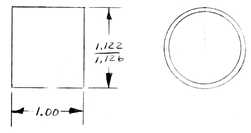
-13 SPACER, PROP



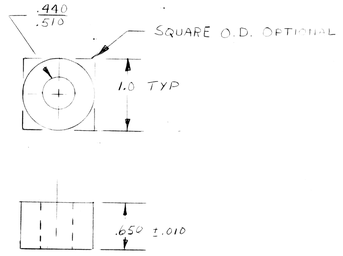
-15 PLATE



-17 WASHER - THRUST



-19 CENTERING TUBE



-21 SPACER, ENGINE

PREFERRED HOLE SIZE: .190 / .198 = #10; .250 / .260 = #F

SEE SHT 1 FOR NOTES

Brg.: SKF 6205-2RS 25x52 m/m (.9843 x 2.0472)

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES	
TOLERANCES:	
TENTHS	± .1
HUNDREDTHS	± .03
THOUSANDTHS	± .005
ANGLES: FORMED	± 2°
MACH.: NOTED	
RIVET AND BOLT HOLE EDGE MARGINS	± .05

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SCALE FULL

DRN.	B. Bashforth	4-22-93
APPR.	Mac McClard	11/1/93
APPR.		

DRAWING TITLE: MOTOR MOUNT 430 CUYUNA - 3.60:1 BELT DRIVE

DRAWING NUMBER: B1-536

REV LTR: D

MODEL B1-RD

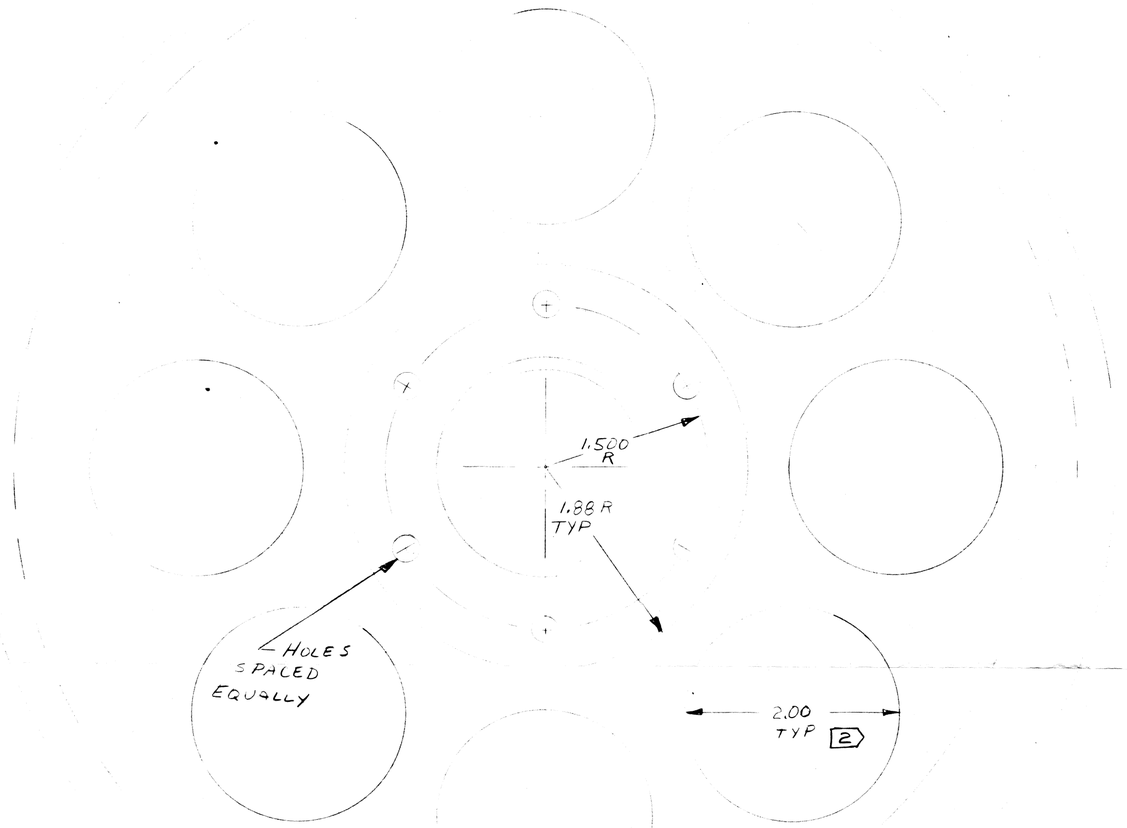
SHEET 2 OF 9

REV LTR D

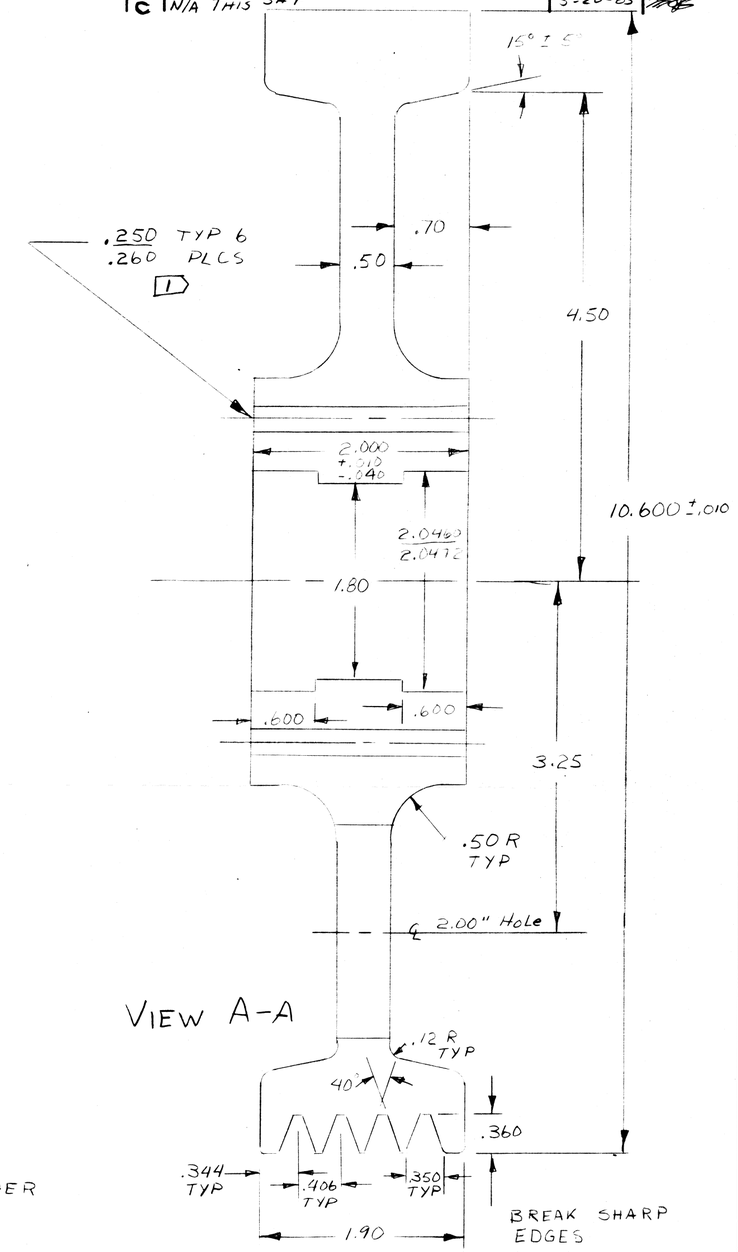
DRAWING NUMBER B1-536 SHT 2

FOR FINISH STANDARDS SEE REPORT 1005.

REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	NO CHANGES THIS DWG	1-5-84	
B	CHANGED [1], ADDED HOLE SPACING	3-7-83	
C	N/A THIS SHT	5-20-83	



-1x PULLEY



VIEW A-A

A

[2] ALL HOLES MUST BE ±.010 TO EACH OTHER

[1] PREFFERED HOLE SIZE = #F

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
1	B1-536-1X	PULLEY - PROP	2.00 x 10.6 - 6061-T6 AL. Alloy PER QQ-A-250/11		F-205		

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
-1		001 -	B1-535
APPLICATION			

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS · .1
HUNDREDTHS · .03
THOUSANDTHS · .005
ANGLES: FORMED · 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS · .05

SCALE FULL

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: PULLEY - PROP

DRN.	B. Bashforth	5-24-83
APPR.		
APPR.		

DRAWING NUMBER: B1-536

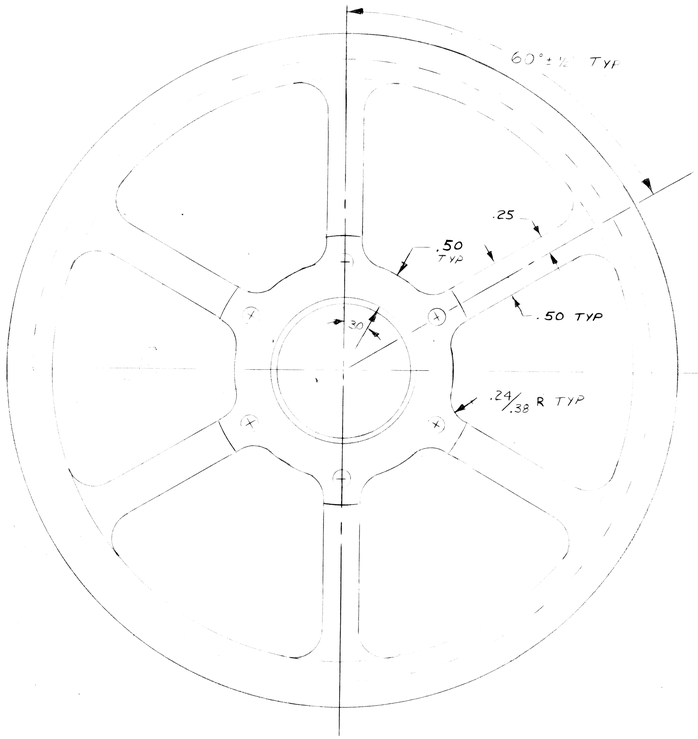
REV LTR: C

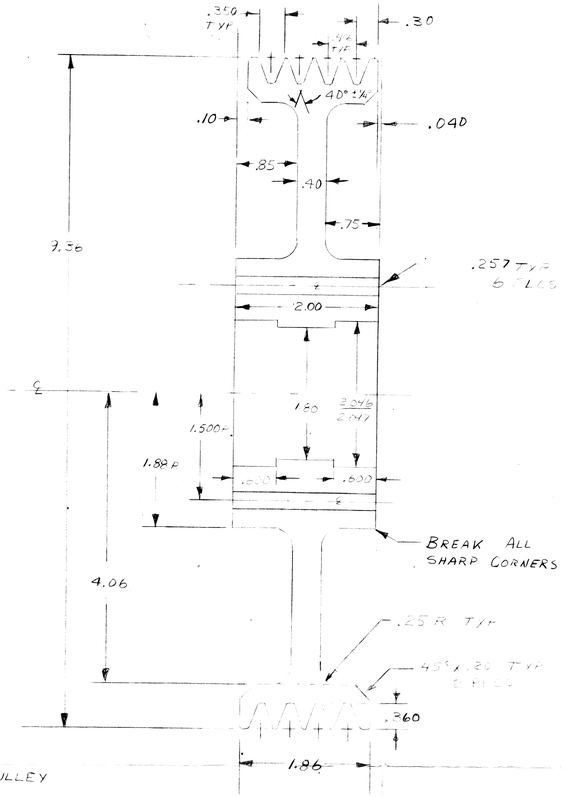
MODEL B1-RD

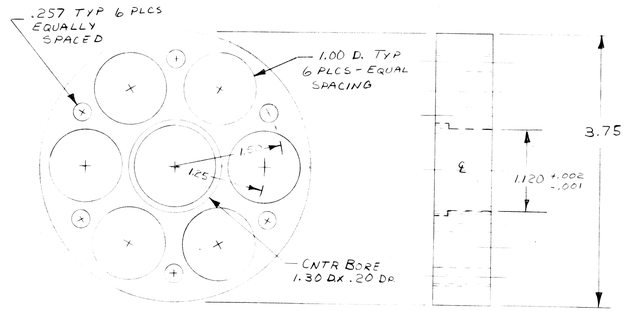
SHEET 4 OF 9

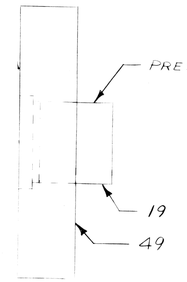
REV LTR C
SHT 4
DRAWING NUMBER B1-536

REVISION			
REV	DESCRIPTION	DATE	APPROVED
B	ADDED THIS DWG TO PACKAGE 4-5-91	2/24/93	
C	ADDED -45 -47, -48, -49, & -50 TO DWG	5/19/93	
D	UPTDM-4 TO REVISED-4 MR	11-15-93	



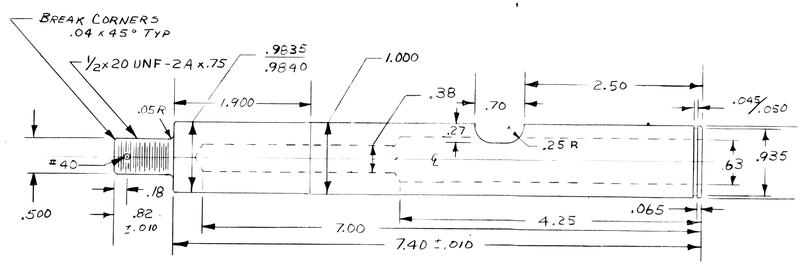




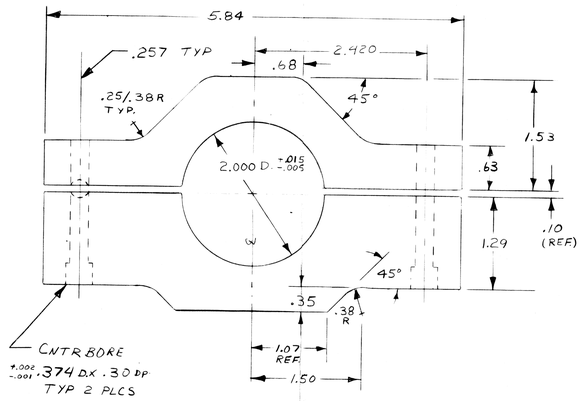


-41 PULLEY

MATL = 6061-T6
FINISH = F205



-45 SHAFT - PROPELLER (LT. WT.)



-48 ECCENTRIC MOUNT UPPER

-47 ECCENTRIC MOUNT LOWER

-49 SPACER - PROP

-50 SPACER ASSY.

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE FULL

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: LIGHT WEIGHT DRIVE SYSTEM COMP.

DRN.	B Bashforth	1/3/92
APPR.		
APPR.		

DRAWING NUMBER: B1-536

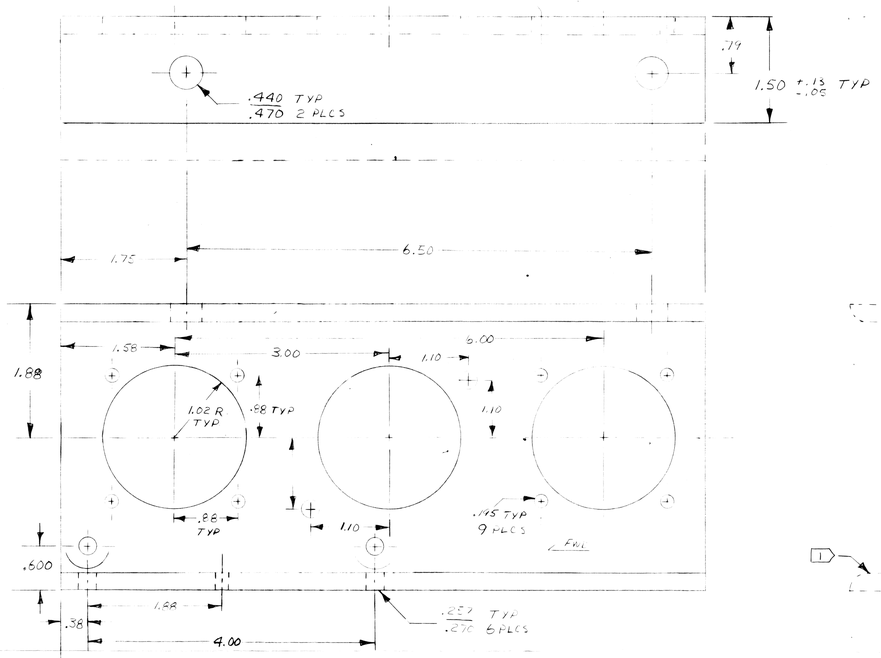
REV LTR: D

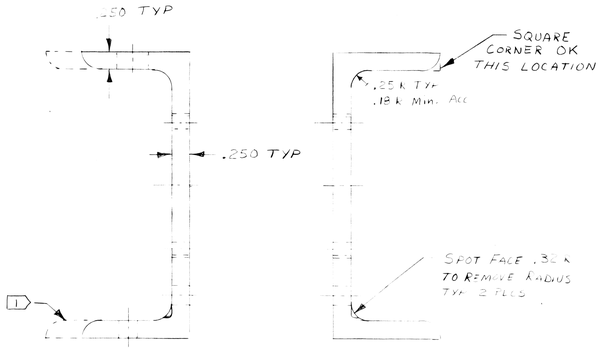
MODEL B1-RD

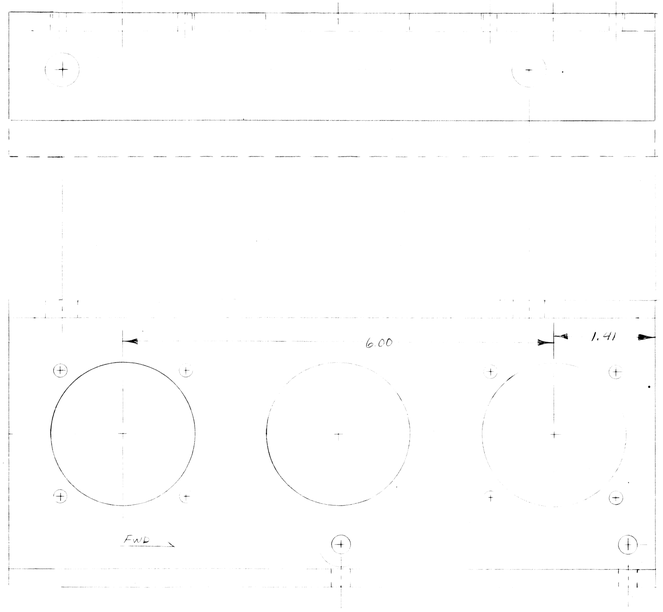
SHEET 7 OF 9

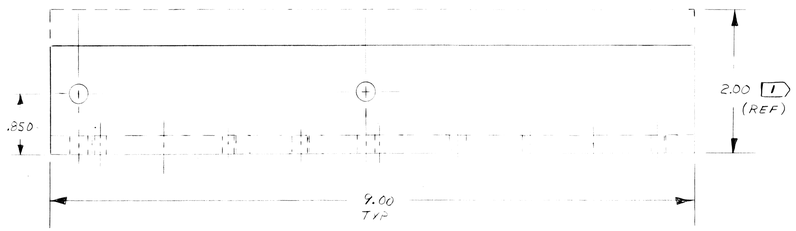
REV LTR D
SHT 7
DRAWING NUMBER B1-536

REVISION			
REV.	DESCRIPTION	DATE	APPROVED
B	ADD THIS DWG TO MANAGE & C/M	2-24-83	
C	N/A THIS SHT	5-20-83	

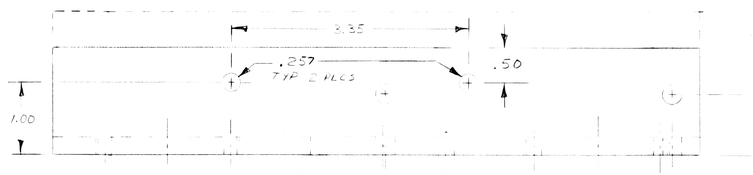








— 55 CHANNEL L.H.



— 56 CHANNEL R H
CHG - L H
EXCEPT AS NOTED

1 2.0 IN LEG ACCEPTABLE BY W.O. REQUEST ONLY

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE FULL

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: EXPERIMENTAL UPRIGHT MOTOR MOUNT

DRN.	B. Bolinger	11/1/83
APPR.		
APPR.		

DRAWING NUMBER: B1-536

REV LTR: C

MODEL B1-RD

SHEET 8 OF 9

REV LTR C
SHT 8
DRAWING NUMBER B1-536

FOR FINISH STANDARDS SEE REPORT 1005.

REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	COMPLETE SYSTEM REDESIGN - ONLY - 3 MANIFOLD UNCHANGED	11-12-82	

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
-25 -1							
1 -	B1-540 -1	COMPLETE EXHAUST SYSTEM KIT			—	SHT 2	
1	-3	EXHAUST MANIFOLD	MODIFIED CUYUNA #430-29-641-000		F-21D	SHT 3	
	-5	DELETED - SEE DCN					
	-7						
	9						
	11	DELETED - SEE DCN					
2 - 2	13	MUFFLER MOUNT STRAP	2.0x9.0x.100 4130N STRAP		—	SHT 5	
1 1	-25	MUFFLER ASSY	MODIFIED CUYUNA #215-29-004-000		F-21D	SHT 4	
1 1		INTER PIPE	CUYUNA #430-29-643-000		—	" "	
6 6		SPRING	CUYUNA #215-29-006-000		—	REF SHT 2	

QUANTITY/ASSY

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE
EDGE MARGINS ± .05

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SCALE

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: EXHAUST SYSTEM

DRN.	B. Bashforth	11-12-82
APPR.	Mac McClard	11/4/83
APPR.		

DRAWING NUMBER: B1-540

REV LTR: A

MODEL B1-RD

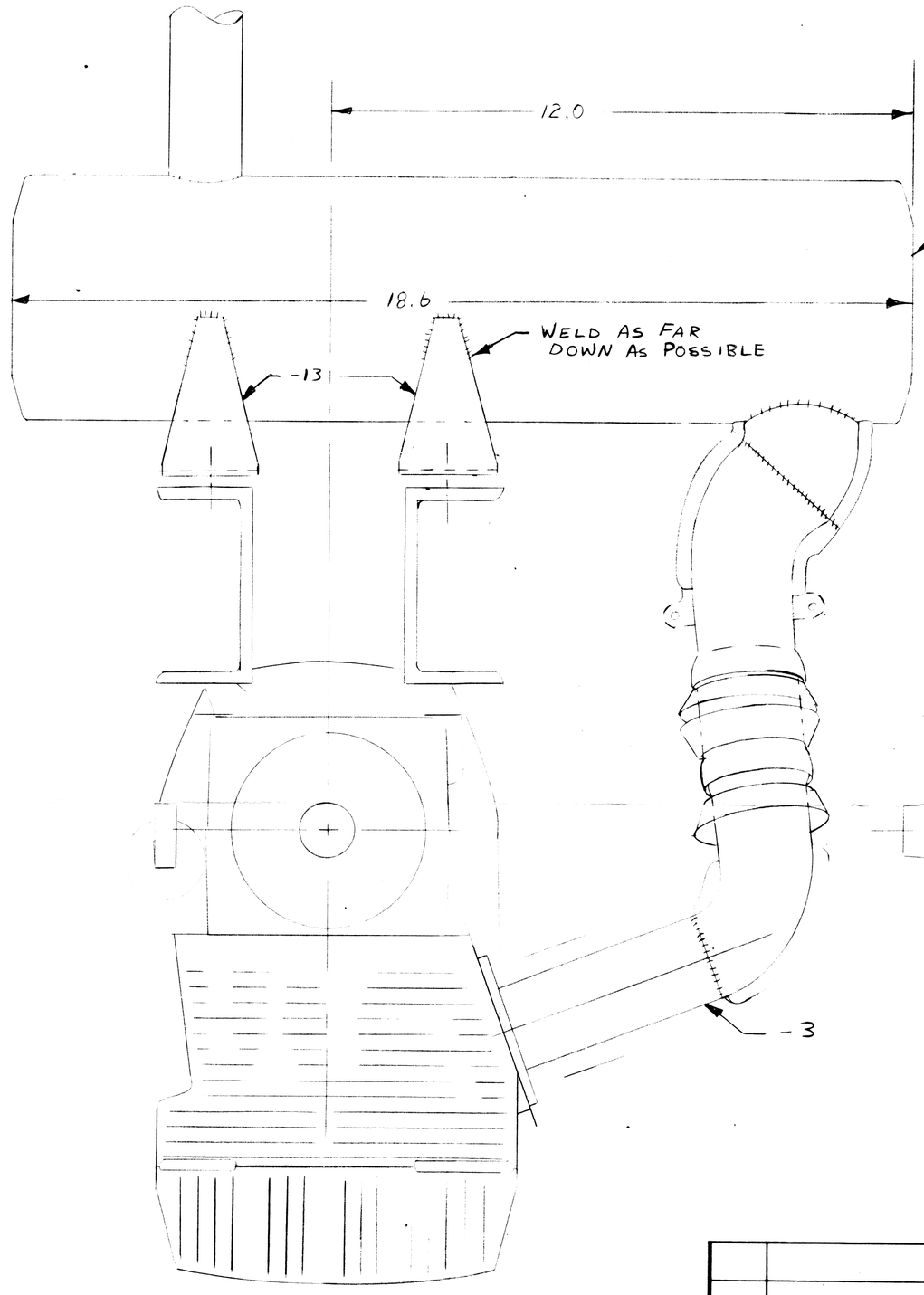
SHEET 1 OF 5

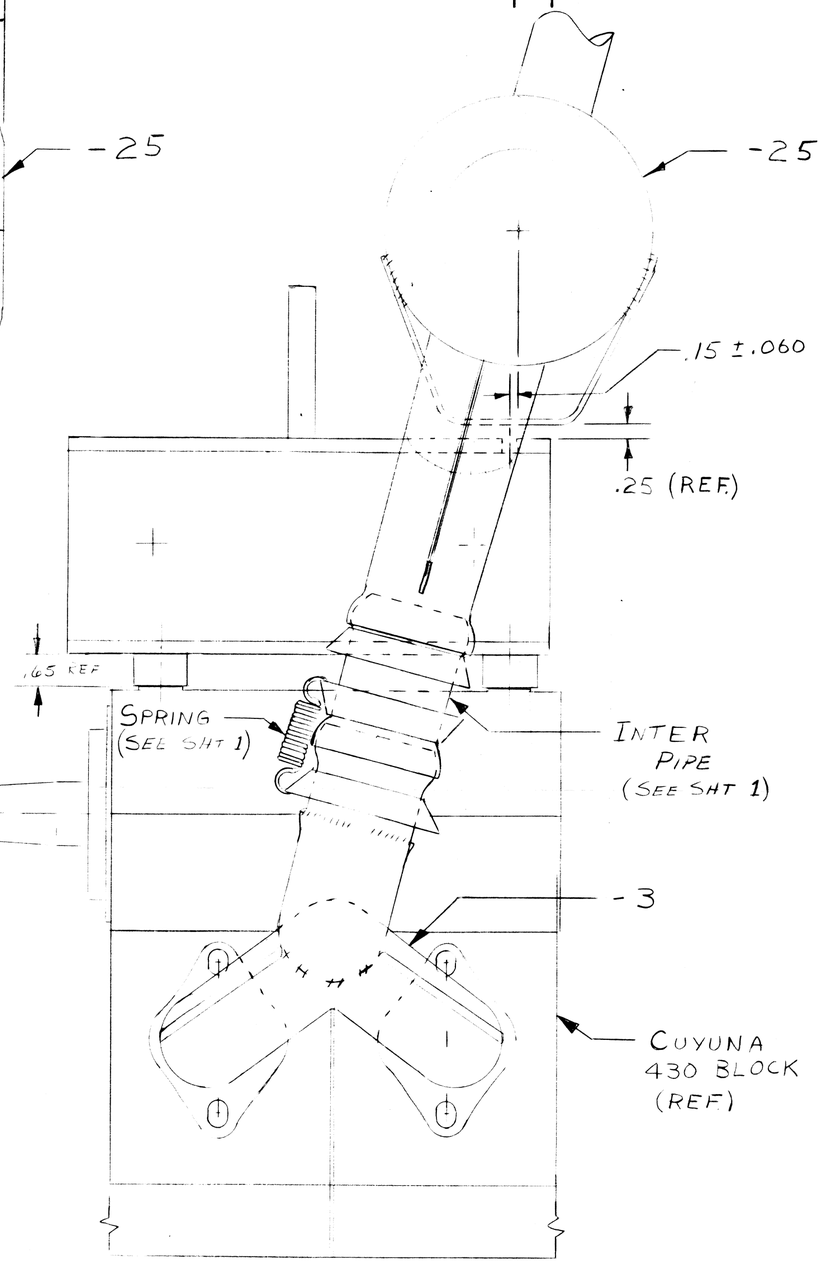
DRAWING NUMBER B1-540 SHT-1

REV LTR A

FOR FINISH STANDARDS SEE REPORT 1005.

REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	COMPLETE SYSTEM REDESIGN	11/12/82	





QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

SCALE 1/2

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRN.	B. Bashforth	6/10/82
APPR.	[illegible]	11/4/82
APPR.		

DRAWING TITLE: EXHAUST SYSTEM

DRAWING NUMBER: B1-540

REV LTR: A

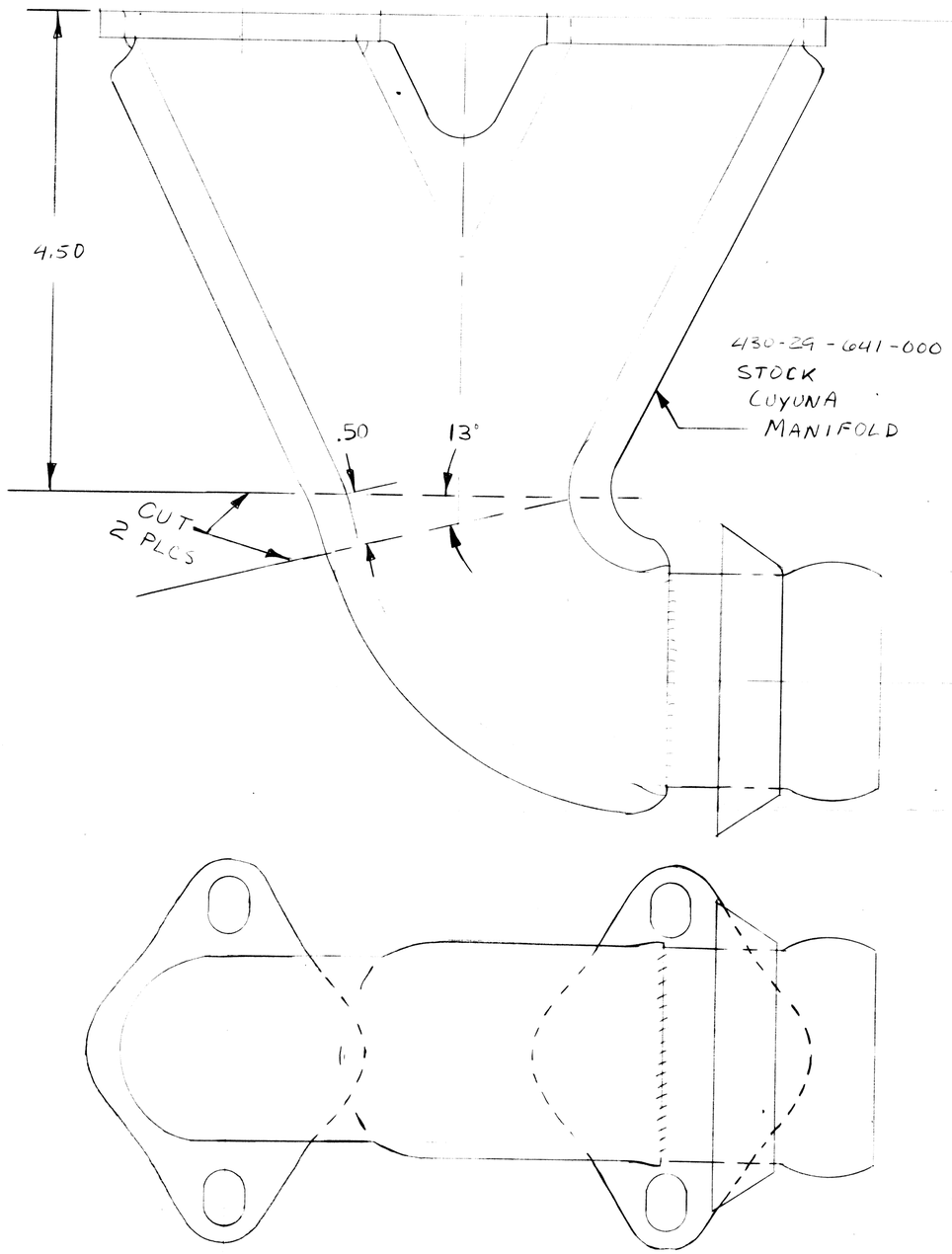
MODEL B1-RD

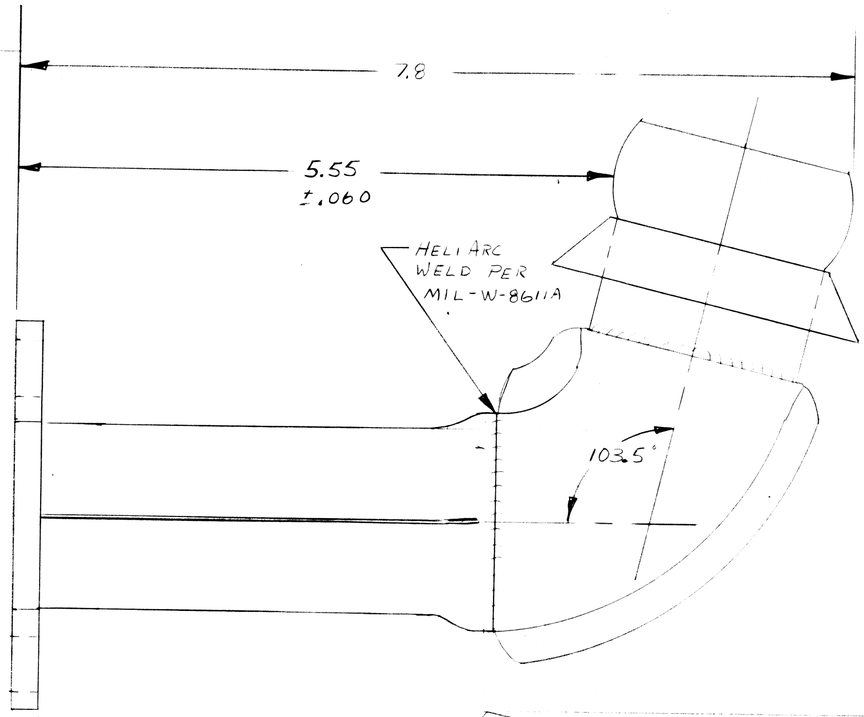
SHEET 2 OF 5

REV LTR: A

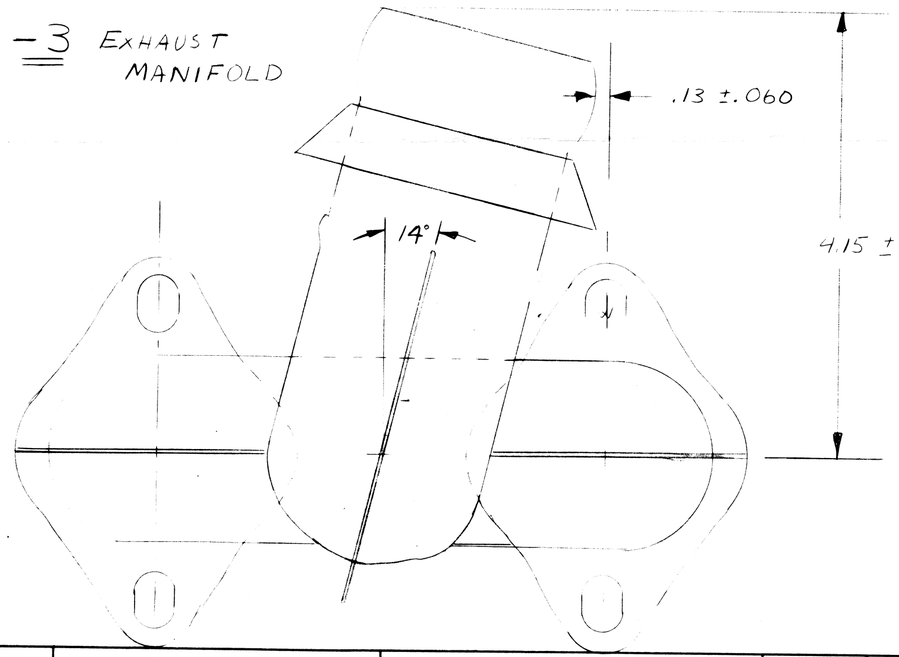
SH 2

DRAWING NUMBER: B1-540





-3 EXHAUST MANIFOLD



1	B1-540-3	MANIFOLD	MODIFY # 430-29-641-000 Stock CUYUNA HEADER				
QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.

B1-540-3	430 CUYUNA	B1-RD S/N # 001-ON-	B1-540 SHT 2
PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

SCALE Full

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: EXHAUST MANIFOLD DETAIL

DRN.	B. BASHFORTH	6-10-82
APPR.		7/1/83
APPR.		

DRAWING NUMBER: B1-540

REV LTR: A

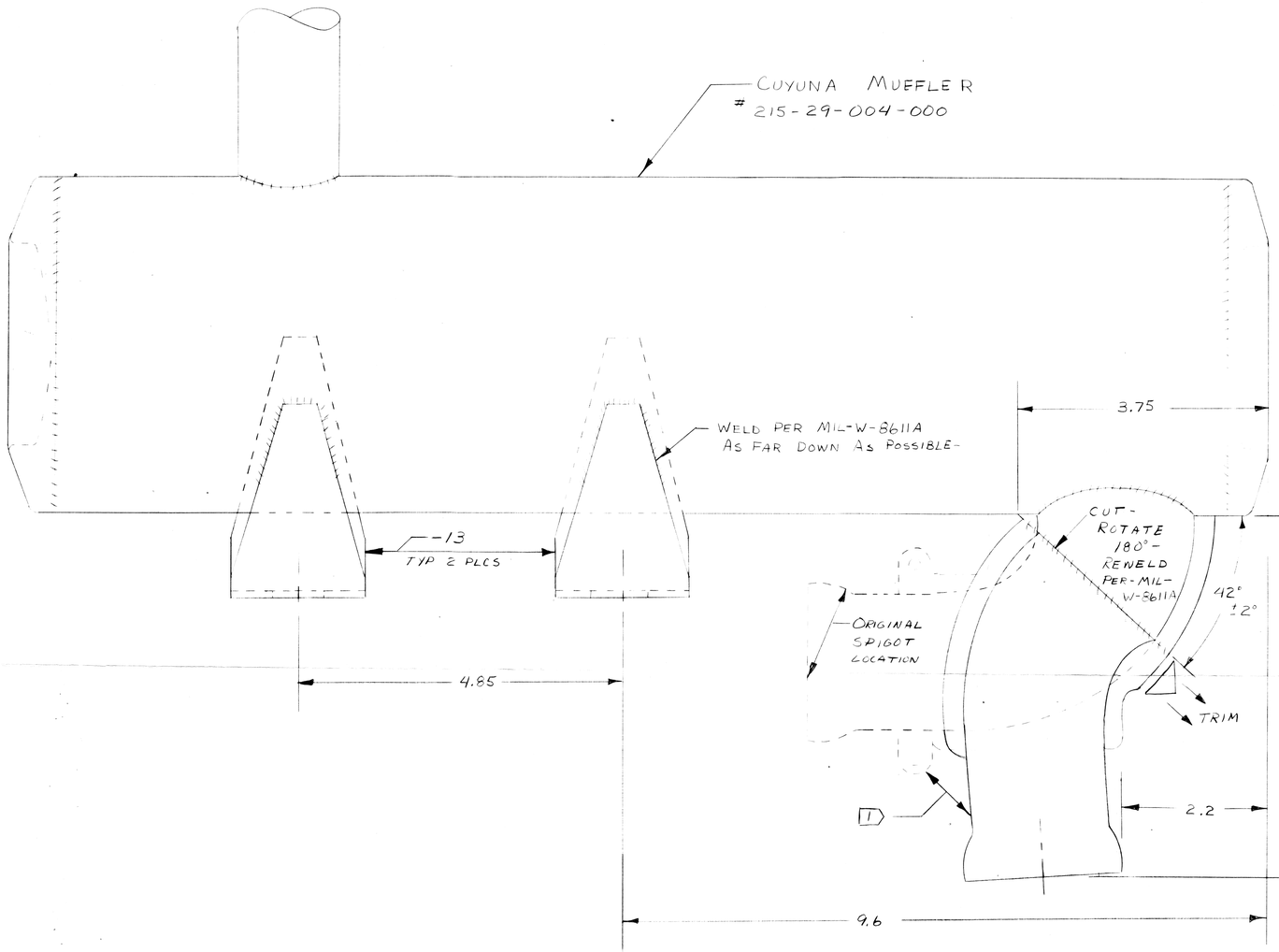
MODEL B1-RD

SHEET 3 OF 5

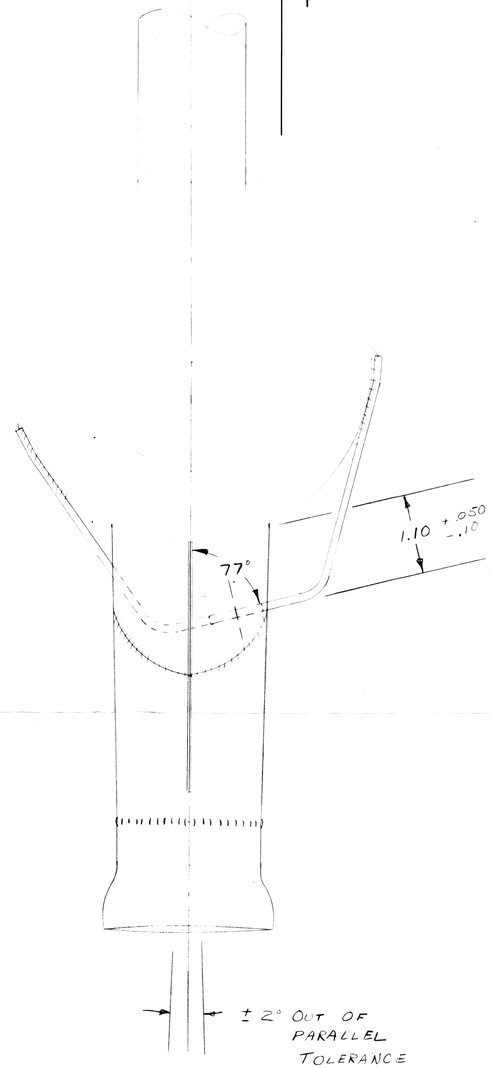
REV LTR: A

DRAWING NUMBER: B1-540 SHT-3

REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	COMPLETE SYSTEM REDESIGN	12-10-82	



B1-540-25 MUFFLER ASSY



NOTES:

1 = SPIGOT MAY COME WITH WELDED SPRING BRACKET (SHOWN IN DASHED LINE) OR A LOOSE SPRING FLANGE AS ON -3 HEADER (NOT SHOWN THIS DWG). EITHER SYSTEM IS ACCEPTABLE.

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES	
TOLERANCES:	
TENTHS	± .1
HUNDREDTHS	± .03
THOUSANDTHS	± .005
ANGLES: FORMED	± 2°
MACH.: NOTED	
RIVET AND BOLT HOLE EDGE MARGINS	± .05

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SCALE FULL

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRN.	B. Bashforth	11/29
APPR.		
APPR.		

DRAWING TITLE: CUYUNA MUFFLER ASSY MODIFICATION DETAILS

DRAWING NUMBER: B1-540

REV LTR: A

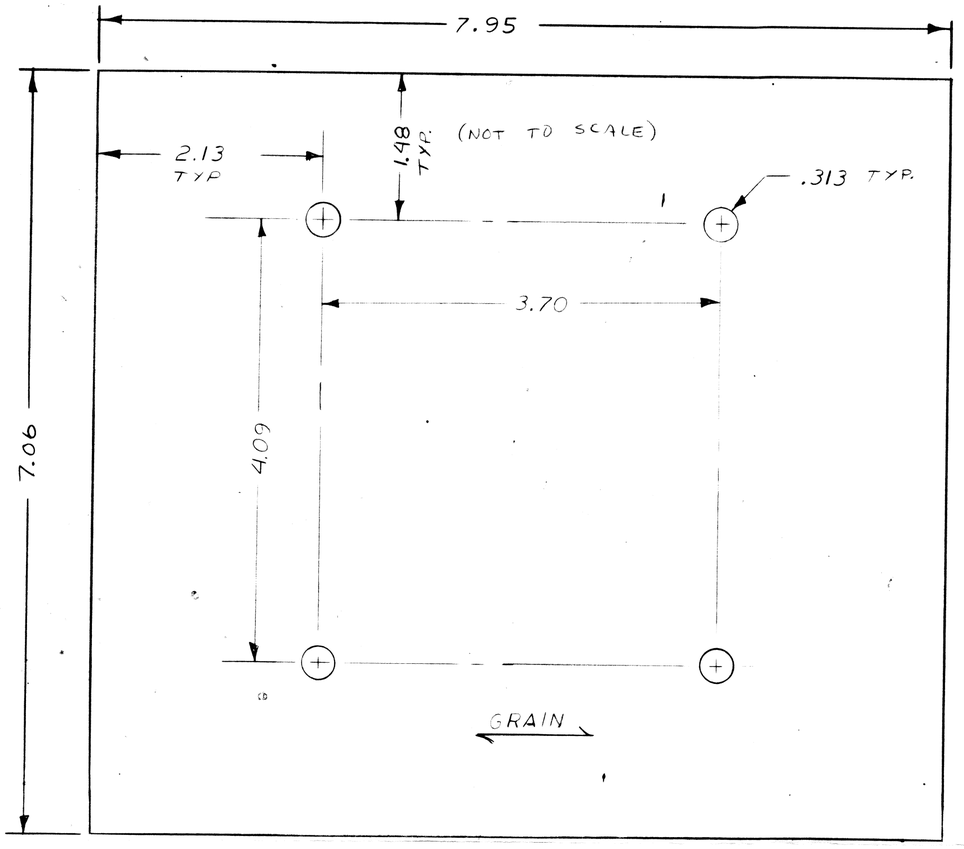
MODEL B1-RD

SHEET 4 OF 5

REV LTR A

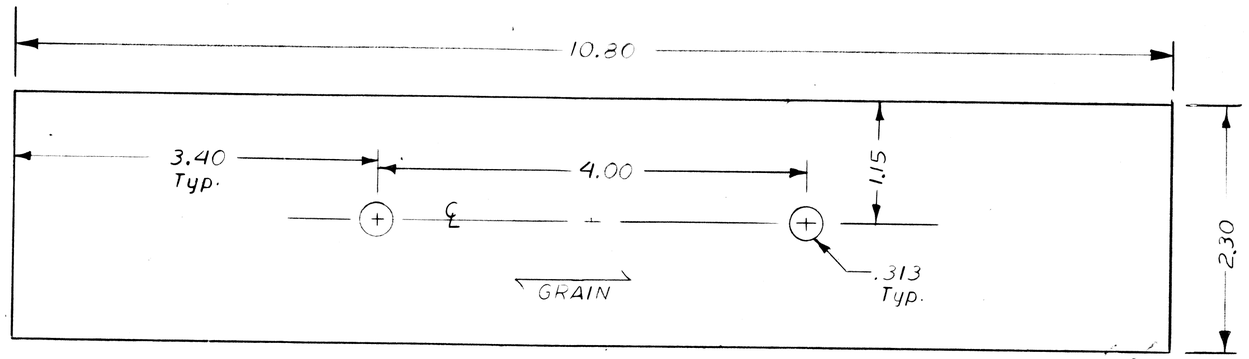
DRAWING NUMBER B1-540 SHT 4

REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED - 3x - Dim 7.06 WAS 6.81	3-24-6	BB



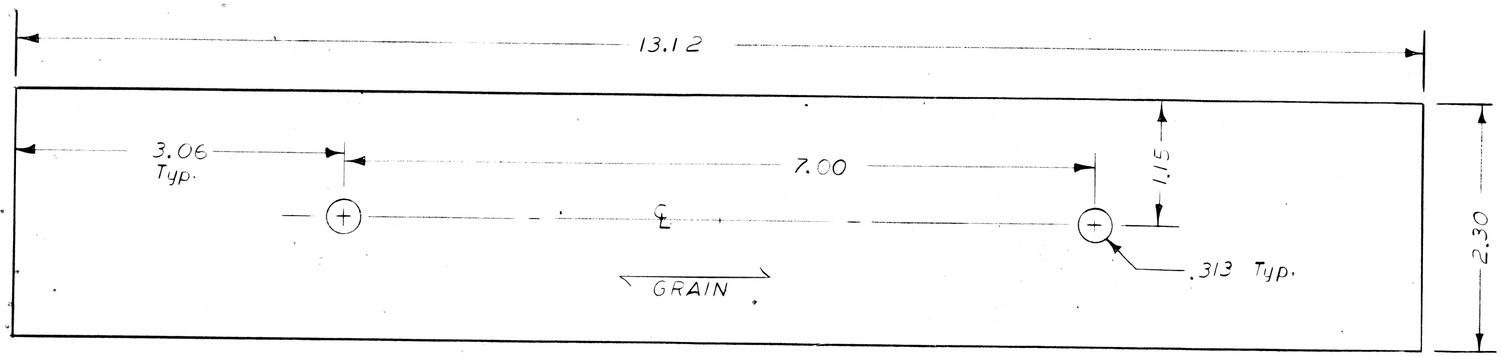
-3x

SHEAR BLANK
.125 x 6.81 x 7.95
4130 N-STEEL



-7x

SHEAR BLANK
.190 x 2.30 x 10.80
6061-T6/2024-T3



-5x

SHEAR BLANK
.190 x 2.30 x 13.12
6061-T6/2024-T3

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
2 ea	-7x	SHEAR BLANK	.190 6061-T6/ ALUMINUM 2024-T3 (ALT.)	/	/		
2 ea	-5x	" "	" " " "				
1 ea	B1-562-3x	" "	.125 4130 N STEEL				

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE FULL

DRN.	B. Bashforth	11/16/84
APPR.	BB	11/16/84
APPR.		

DRAWING TITLE
ROTAX SMALL TWIN M/M
SHEAR BLANK DATA

DRAWING NUMBER
B1-562

REV LTR
A

MODEL B1-RD

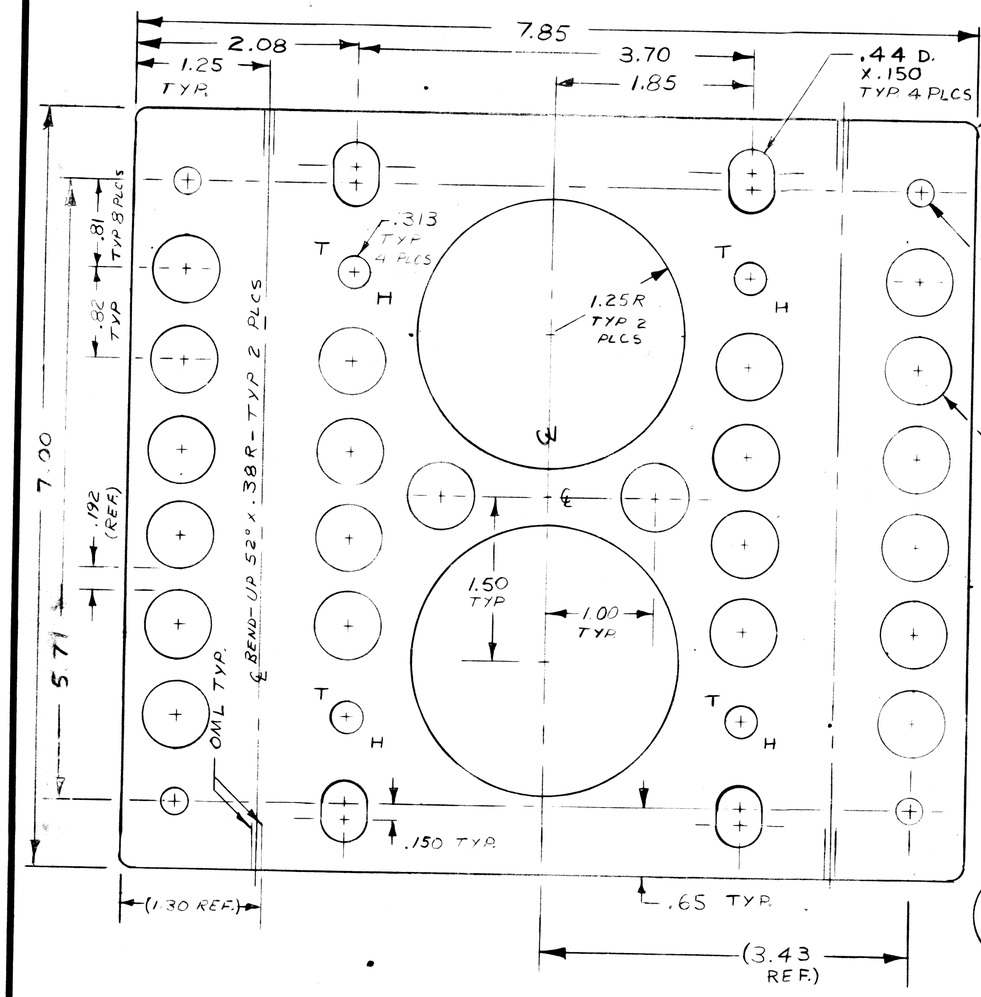
SHEET 1 OF 2

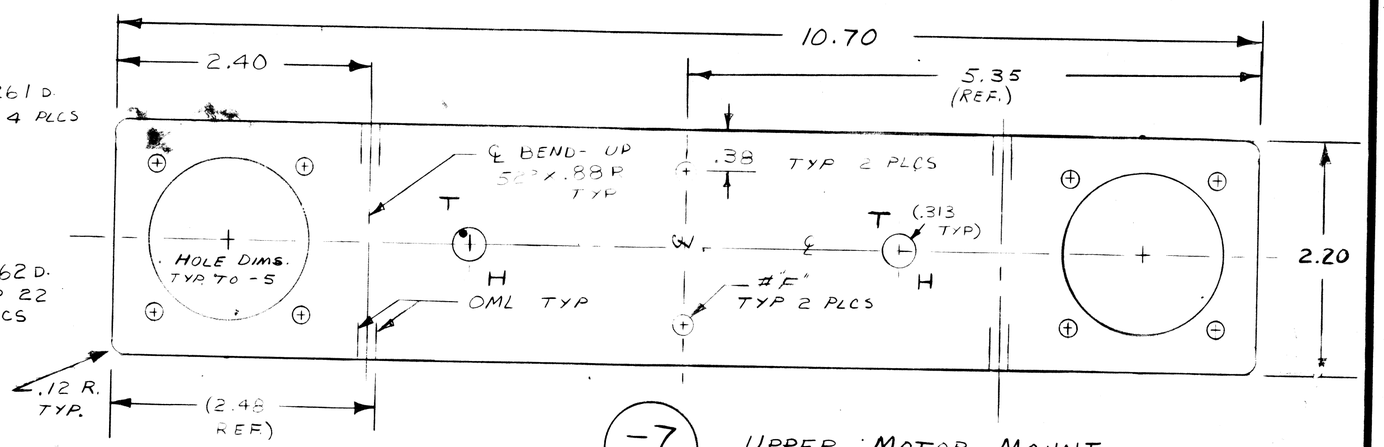
REV LTR A

DRAWING NUMBER B1-562 SHT 1

BREAK ALL SHARP EDGES TYP.

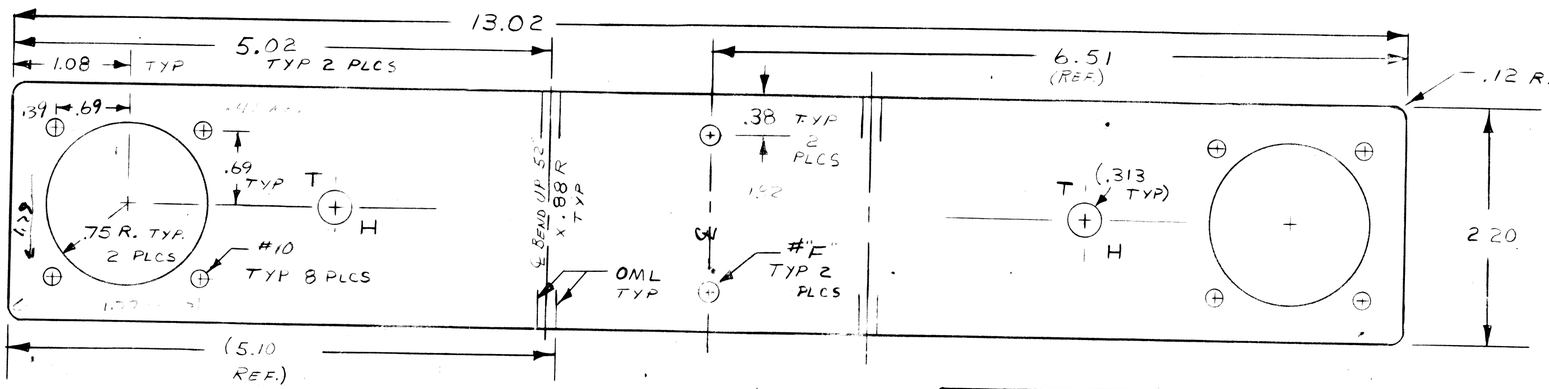
REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED -3 TO ACCEPT 503 BOLT PATTERN-	3-24-6	SB
B	CHANGED HOLE SIZES -5,-7: #F WERE #10 #10 WERE .166	6-30-1	BB





-7 UPPER MOTOR MOUNT
SEE SHT 1 FOR SHEAR BLANK DETAIL

-3 ENGINE PLATE
(F/P SHOWN)
SEE SHT 1 FOR SHEAR BLANK DETAIL



-5 LOWER MOTOR MOUNT
SEE SHT 1 FOR SHEAR BLANK DETAIL

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
2EA	-7	UPPER MOTOR MOUNT	-7x SHEAR BLANK		BLACK ANODIZE		
2EA	-5	LOWER MOTOR MOUNT	-5x " "		" "		
1EA	B1-562 -3	ENGINE PLATE	-3x SHEAR BLANK		CAD. PLATE		

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

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SCALE FULL

DRAWING TITLE: ROTAX SMALL TWIN MOUNT DETAIL DRAWING

DRN.	B. BASHFORTH	11/29/84
APPR.	B.B	11/16/84
APPR.		

DRAWING NUMBER: B1-562

REV LTR: B

MODEL B1-RD

SHEET 2 OF 2

REV LTR B

DRAWING NUMBER B1-562 SHT 2

FOR FINISH STANDARDS SEE REPORT 1005.

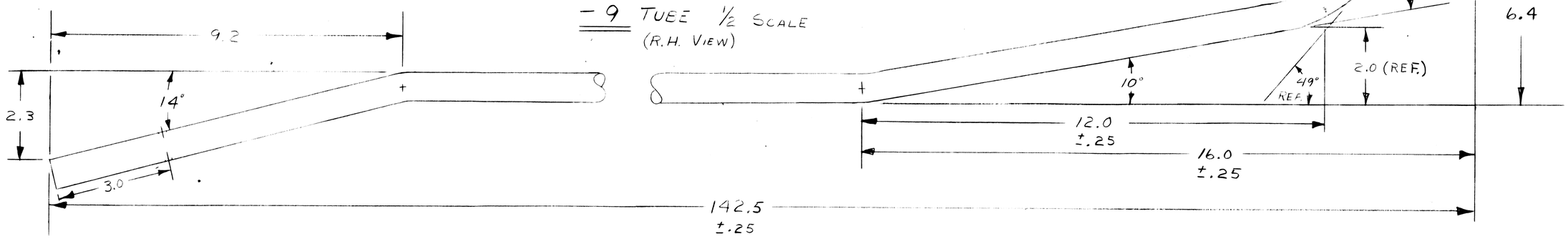
REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	LARGER THREADED HOLE IN -15	12-7-82	
B	REVISED -9 & -11 TUBES - ADDED -15 TO SHT 1 - DELETED SHT 2	5-2-83	
C	DELETED D 1, ADDED HOLE -17 REVISED HOLE CALLOUTS -17	11-14-83	

NOTES:

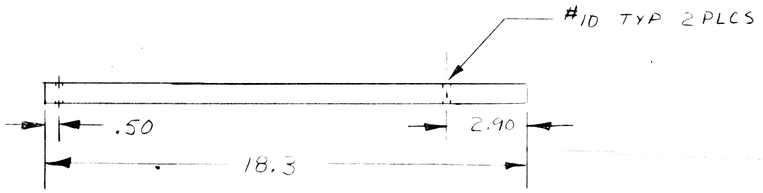
1.

2. ACCEPTABLE WALL THICKNESS = .050 ~ .125
   ALT. EXTR. # = 60-136
   60-10794
   60-4095

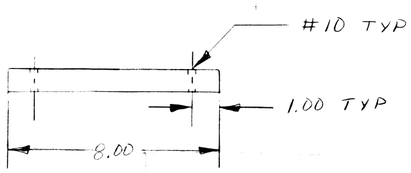
3. ACCEPTABLE FOR TAP HOLE TO EXTEND THRU PART.



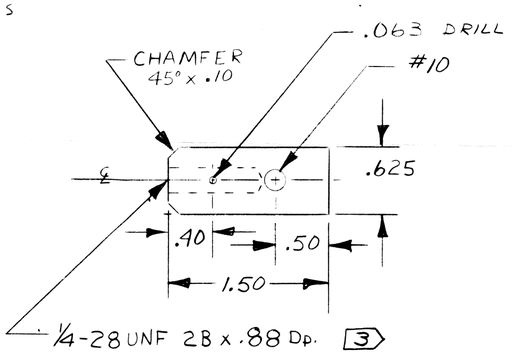
-9 TUBE 1/2 SCALE
(R.H. VIEW)



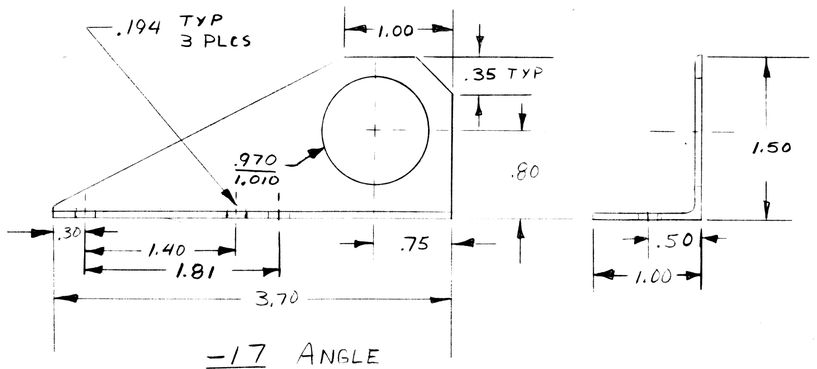
-11 TUBE
1/4 SCALE



-13 TUBE
1/4 SCALE



-15 ROD END ADAPTER
FULL SCALE



-17 ANGLE
FULL SCALE

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
2	-17	SUPPORT ANGLE	1.00x1.50x.063 [2] TMS-60-5969 6061-T6 ANGLE		BLACK F205		C
2	-15	ROD END ADAPTER	.625x1.50 6061-T6 ROD PER QQ-A-225/8		F205		B
1	-13	SPLICE TUBE	.875x.058W WW-T-700/6 6061-T6 TUBE		F211		
1	-11	TUBE EXTENSION	.75x.058W WW-T-700/6 6061-T6 TUBE		F211		B
1	B1-620-9	PUSHROD TUBE	.75x.058W WW-T-700/6 6061-T6 TUBE		F211		B

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

SCALE As NOTED

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: ELEVATOR PUSHROD DETAILS

DRN.	B. Bashforth	6-5-82
APPR.		
APPR.		

DRAWING NUMBER: B1-620

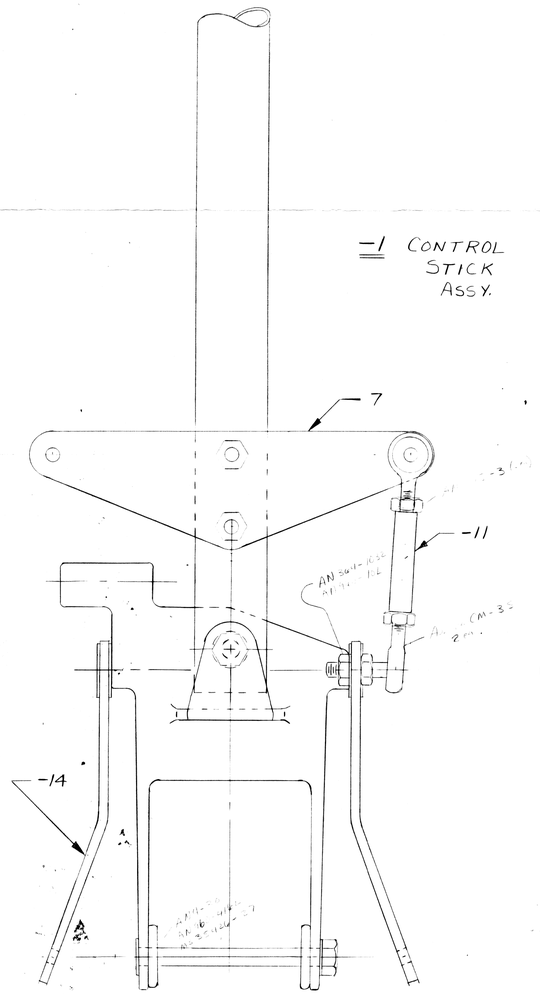
REV LTR: C

MODEL B1-RD

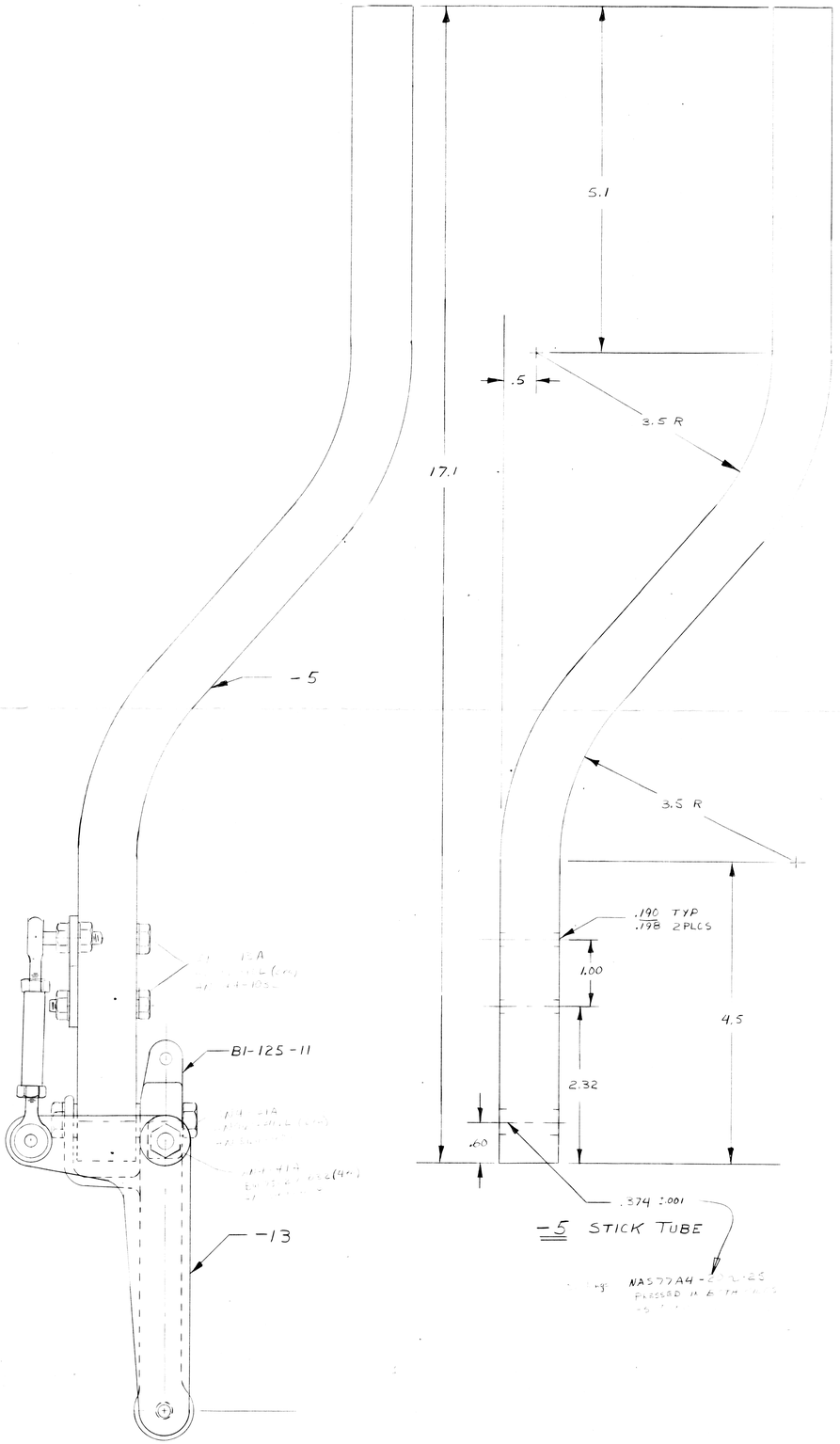
SHEET 1 OF 1

REV LTR C
SH 1
DRAWING NUMBER B1-620

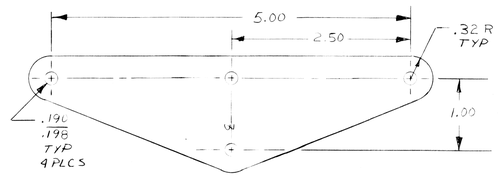
REVISION			
REV	DESCRIPTION	DATE	APPROVED



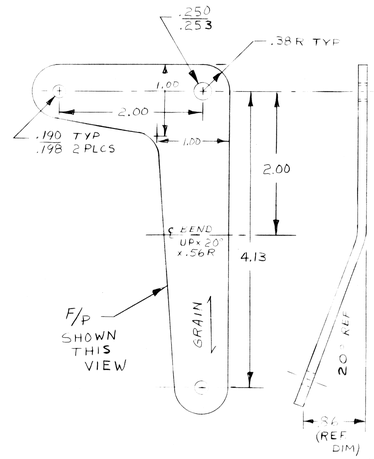
-1 CONTROL STICK ASSY.



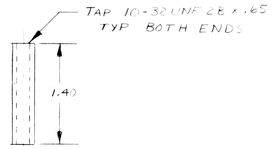
-5 STICK TUBE



-7 STICK T-BAR



-13 BELLCRANK (L.H.)
-14 OPP (R.H.)



-11 LINK

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
2		Flanged Bushing	NAS 77 A4-25				
1/1	-13/-14	STICK BELLCRANK	.100 x 2.76 x 4.89 - 6061-T6 Al. Alloy PLATE		11		
2	-11	STICK LINK	.313 x .083 W x 1.40 6061-T6 AL. TUBE		11		
1	-7	STICK T-BAR	.100 x 5.64 x 1.64 - 6061-T6 BARE Al. PLATE		11		
1	-5	STICK TUBE	.875 x .065 W x 18.35 - AL. TUBE 6061-T6 PER WW-T-700/6		F205 BLACK		
1	B1-625-1	CONTROL STICK ASSY.					

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS ± .1
HUNDREDTHS ± .03
THOUSANDTHS ± .005
ANGLES: FORMED ± 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS ± .05

SCALE FULL

DRN.	B Bishforth	5-17
APPR.		
APPR.		

DRAWING TITLE: CONTROL STICK - ASSY. — DETAIL

DRAWING NUMBER: B1-625

REV LTR

MODEL B1-RD

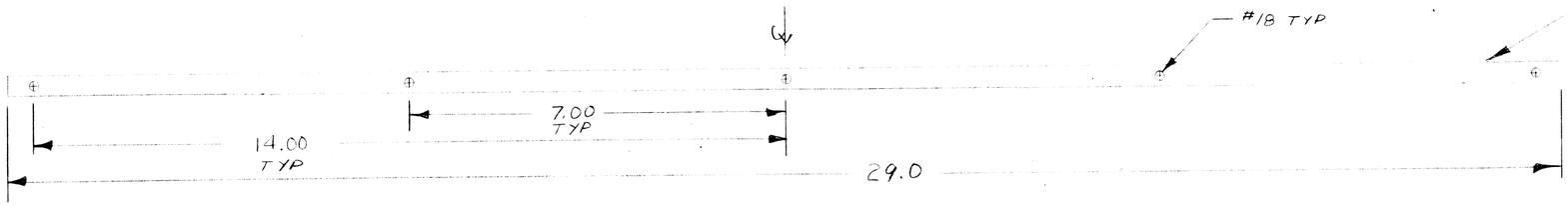
SHEET 1 OF 1

REV LTR

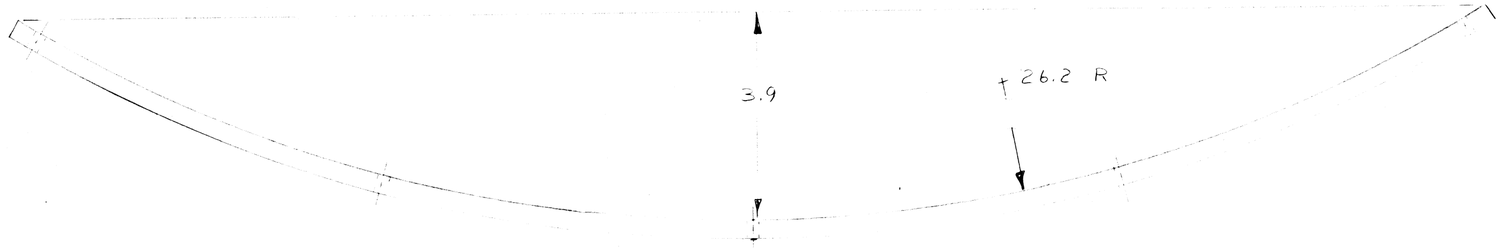
DRAWING NUMBER B1-625

FOR FINISH STANDARDS SEE REPORT 1005.

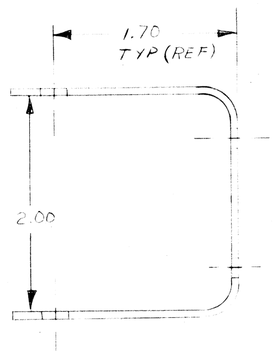
REVISION			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED THIS SHT. - CHANGED SHT 1 TO SHT 2	2/7/83	[illegible]

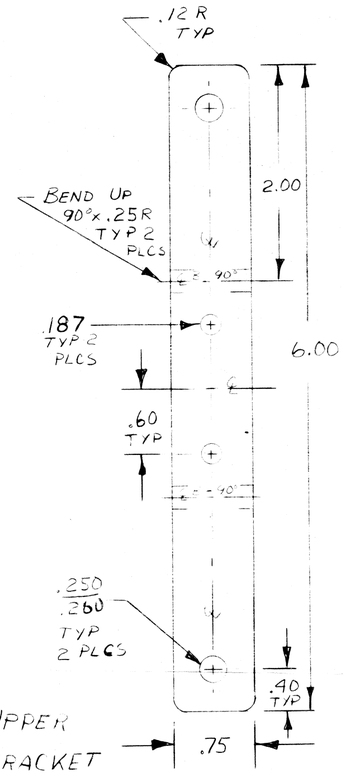


FRONT VIEW BEFORE BEND

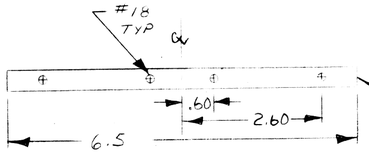


-11 LOWER BRACE
(½ SCALE)

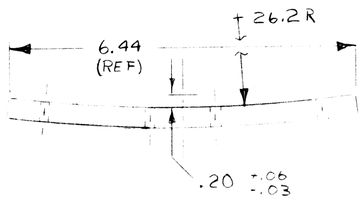




-9 UPPER BRACKET



FRONT VIEW BEFORE BEND



-7 UPPER BRACE
(½ SCALE)

NOTES: [1] -6063-T6 OR T832 ACC. SUB.
[2] - 2024-T3, 6063-T6 OR T832 ACC. SUB.

QTY. A/C	PART NUMBER	NAME	MATERIAL AND SPECIFICATION	PROCESS	FINISH	ZONE	REV. LTR.
1	-11	LOWER BRACE	.38 x .035W - 6061-T6 TUBE [1]		F21		
1	-9	UPPER BRACKET	.75 x 6.00 x .063 6061-T6 SHT [2]		F21		
1	-7	UPPER BRACE	.38 x .035W - 6061-T6 TUBE [1]		F21		
1	B1-710 -5	WIND SHIELD	.125 "PLEXIGLAS" SEE [1] SHT 2			SHT 2	

PART NO.	USED ON	SERIAL NO.	USED ON DRAWING
APPLICATION			

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES:
TENTHS · .1
HUNDREDTHS · .03
THOUSANDTHS · .005
ANGLES: FORMED · 2°
MACH.: NOTED
RIVET AND BOLT HOLE EDGE MARGINS · .05

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SCALE FULL UNLESS NOTED

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

DRAWING TITLE: WIND SCREEN DETAILS

DRN.	B Bashforth	2/4/83
APPR.		
APPR.		

DRAWING NUMBER: B1-710

REV LTR: A

MODEL B1-RD

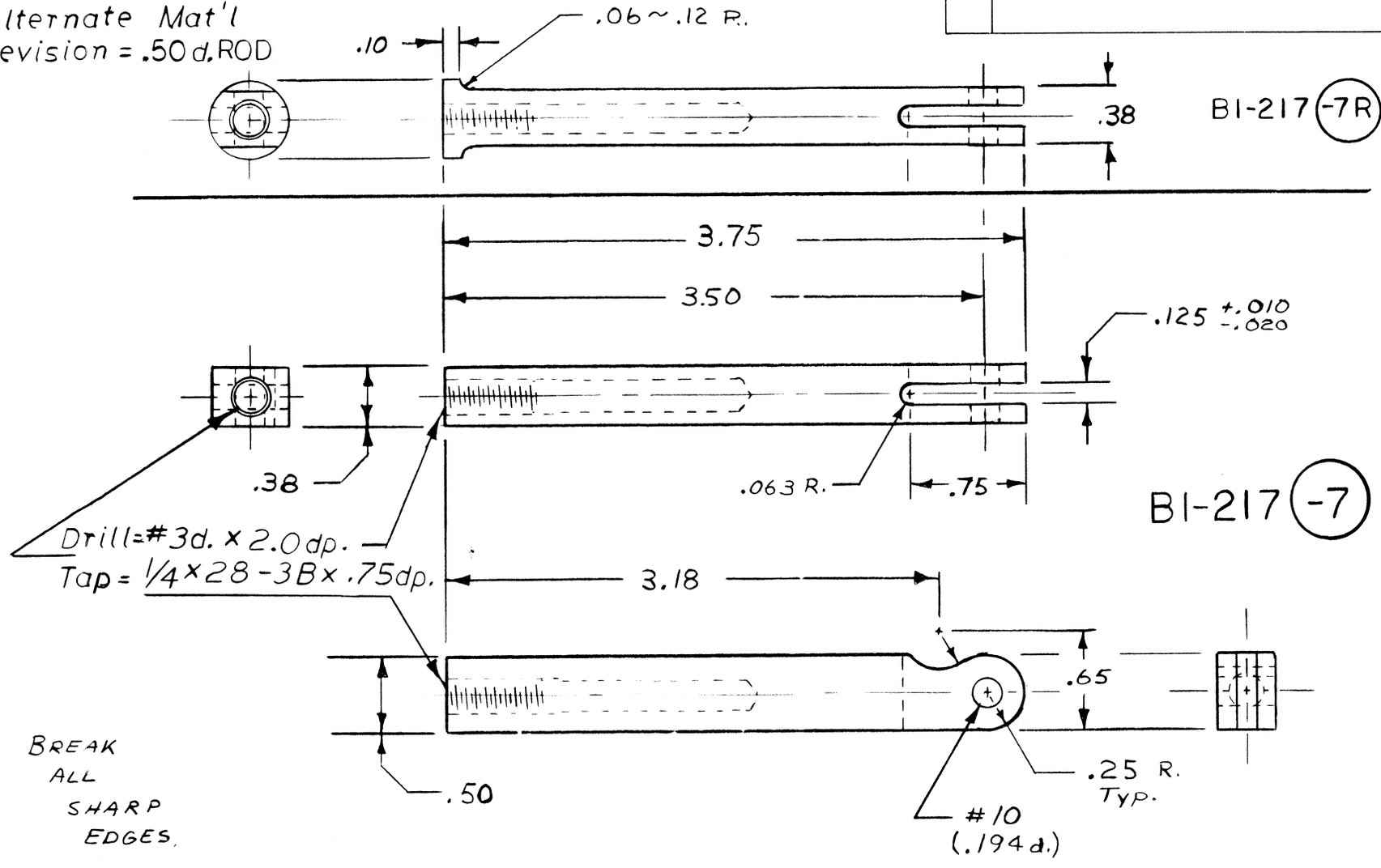
SHEET 1 OF 2

REV LTR A

DRAWING NUMBER B1-710 SHT 1

REV	DESCRIPTION	DATE	APPR

Alternate Mat'l
Revision = .50 d. ROD



QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
(8)	-7R	AILERON HINGE	.50 d. AL. ROD 2024-T3	QQ-A-250/3	F-205
8	B1-217-7	AILERON HINGE	.38 x .50 AL. PLATE 6061-T6/2024-T3	QQA-250/11 QQ-A-250/14	F-205

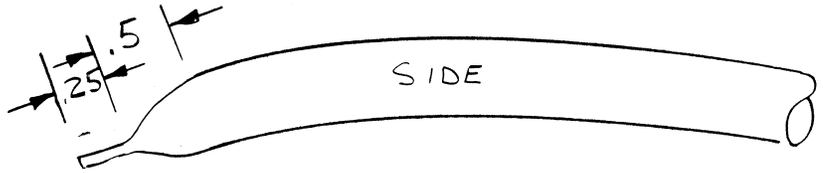
.X ± .1, ± .03, .XXX ± .005 ANGLES ± 2°	POWERS BASHFORTH A/C (206) 435-4356	AILERON HINGE	BIA 217
DRN B. BASHFORTH	CHK 2-10-7	APPR B.B.	APPR
SCALE: 1:1	USED ON DWG.	SHEET 1 OF 1	

BIA 217

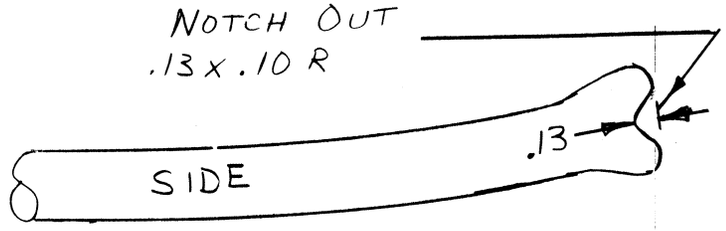
REV
1R

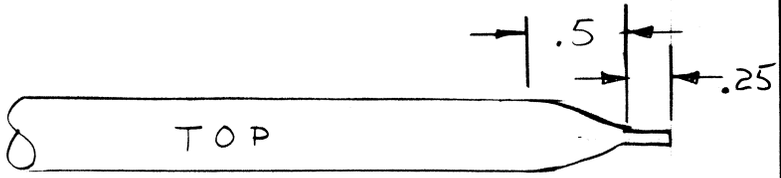
NOTE:
FLATTEN ENDS AND DEBURR THOROUGHLY

REV	DESCRIPTION	DATE	APPR



SECTION A





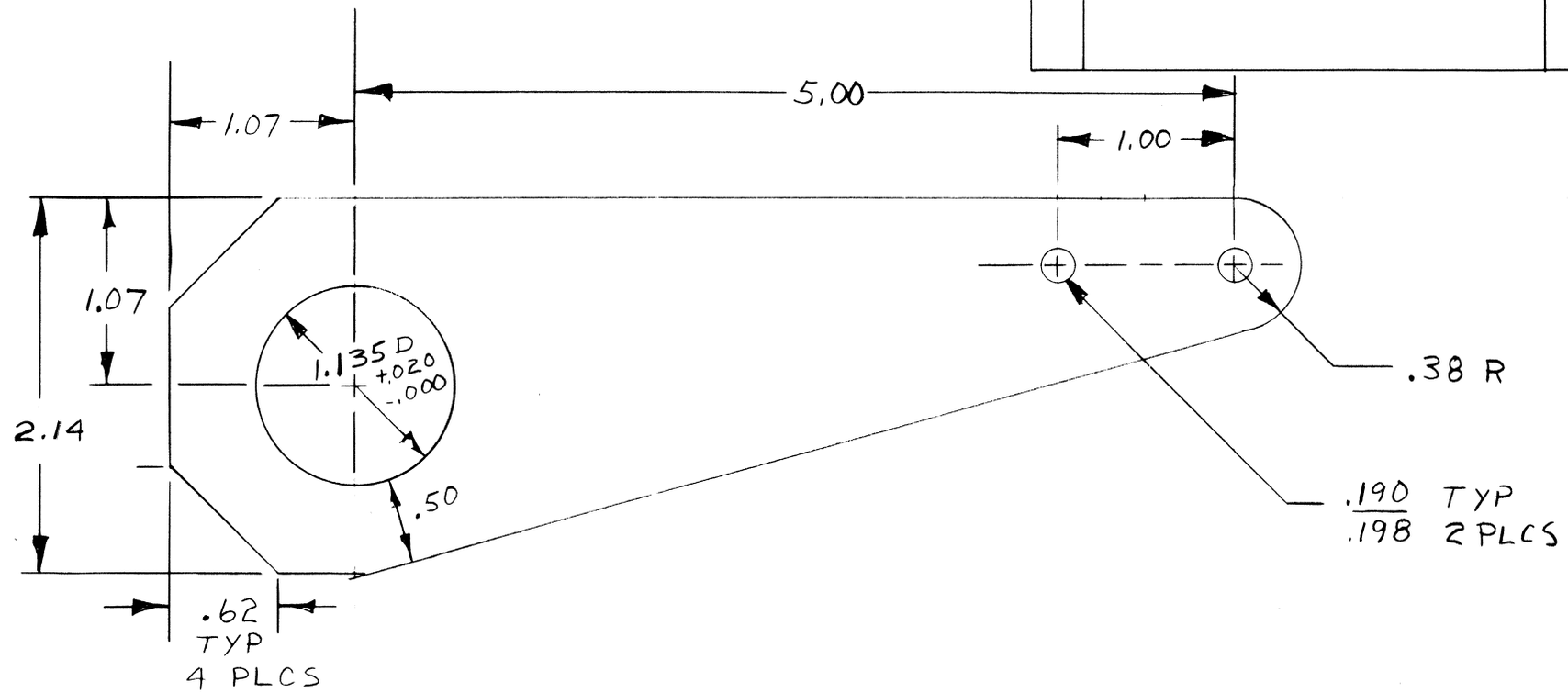
SECTION B

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH

.X ± .1, ± .03, .XXX ± .005 ANGLES ± 2°	ROBERTSON AIRCRAFT CORPORATION 839 W. PERIMETER RD., RENTON, WASH. 98055 (206) 228-5000	B1-235 BATTEN END DTL.	B1A235	REV
DRN B.B.	CHK	APPR	APPR	SCALE:	USED ON DWG.	SHEET 2 OF 4

B1A235

REV	DESCRIPTION	DATE	APPR



B1-410-13

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
1	B1-410-13	ARM – ELEVATOR HORN	.125 × 2.14 × 6.45 – 6061-T6 SHT.		—

.X ± .1, ± .03,
.XXX ± .005
ANGLES ± 2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

ELEVATOR HORN

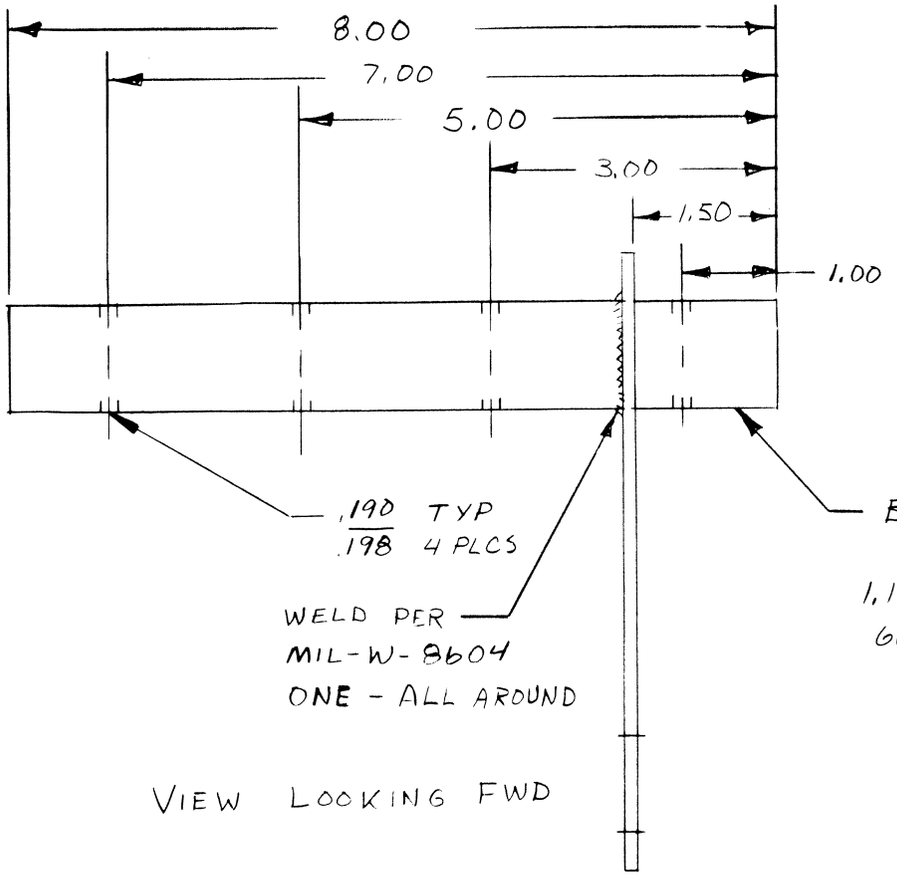
B1 A 410

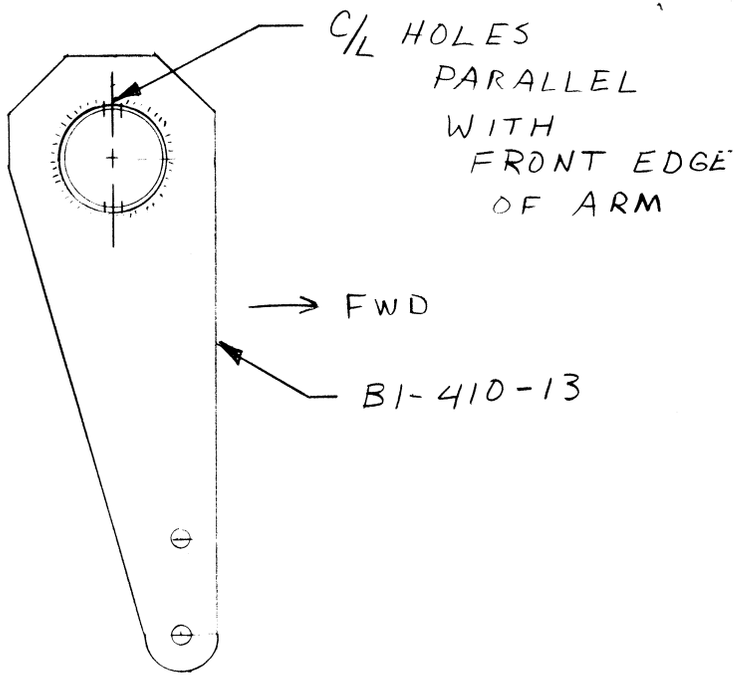
REV

DRN	CHK	APPR	APPR	SCALE	USED ON DWG.	SHEET
B.B. 5/20/82	mac	[illegible]	6/7/82	FULL	B1-410-SHT2	1 OF 2

B1A 410

REV	DESCRIPTION	DATE	APPR





B1-410-1

ELEVATOR HORN

1/2 SCALE

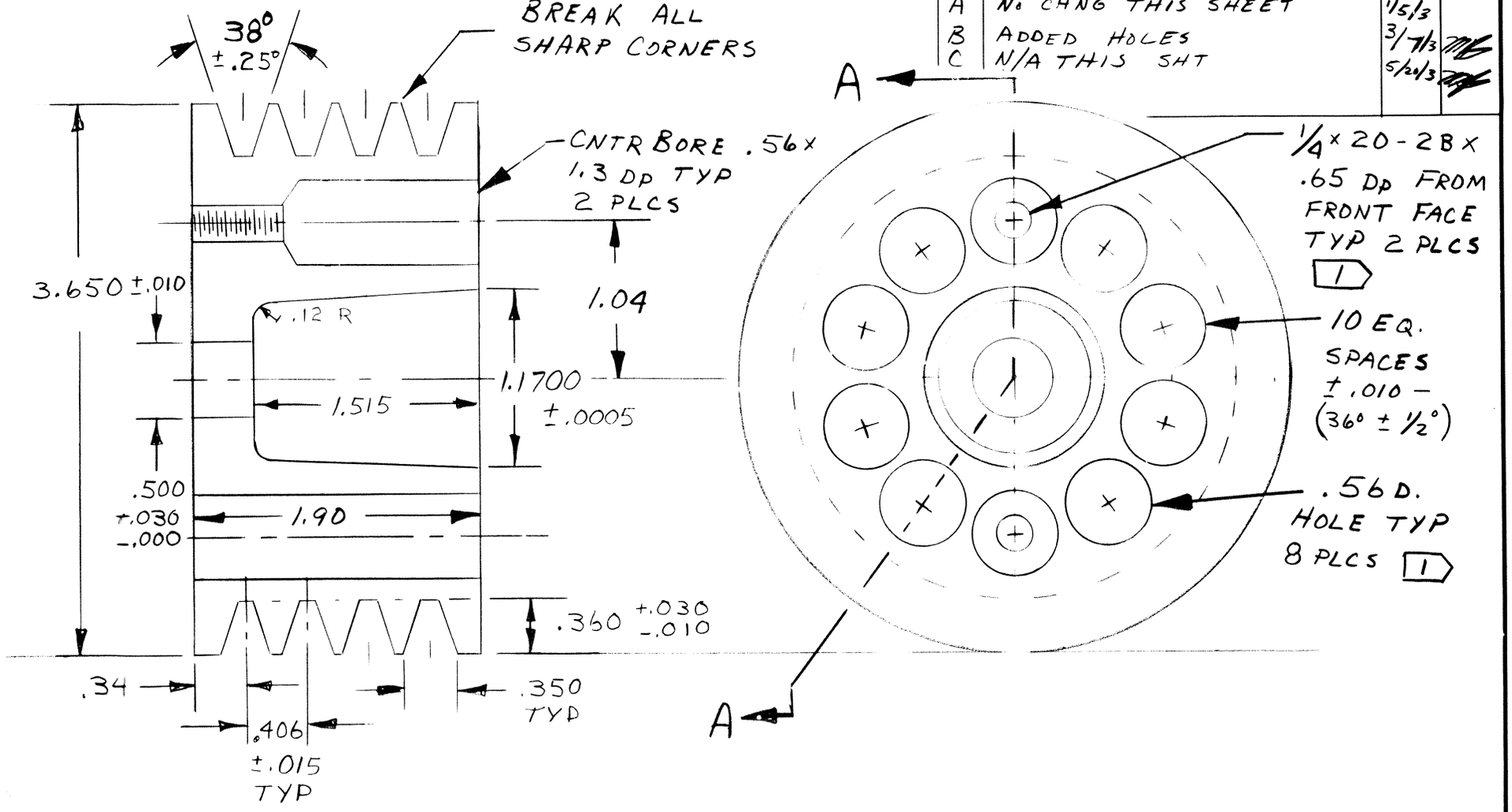
[1] ANODIZE BLACK PER F205

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
1	-1	EL. HORN ASSY			[1]
1	-11	TUBE	1.125 x .058 w 6061-T6		

.X ± .1, ± .03, .XXX ± .005 ANGLES ± 2°	ROBERTSON AIRCRAFT CORPORATION 839 W. PERIMETER RD., RENTON, WASH. 98055 (206) 228-5000	EL. HORN ASSY	B1 A 410	REV
DRN B.B	CHK 6-2-82 APPR [illegible] APPR 6/7/82	SCALE: 1/2 USED ON DWG.	SHEET 2 OF 2	

B/A 410

REV	DESCRIPTION	DATE	APPR
A	No CHNG THIS SHEET	1/5/13	
B	ADDED HOLES	3/7/13	
C	N/A THIS SHT	5/24/13	



ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

-31 PULLEY - ENGINE

(1) HOLES OPTIONAL - PUT IN PART ONLY IF SPEC. ON W/O.

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
1	B1-536-31	Pulley - ENGINE 3.65 D.	6061-T6 Rod QQ A 200/8		F205

.X ±.1, ±.03, .XXX ±.005, ANGLES ±2°

ROBERTSON AIRCRAFT CORPORATION

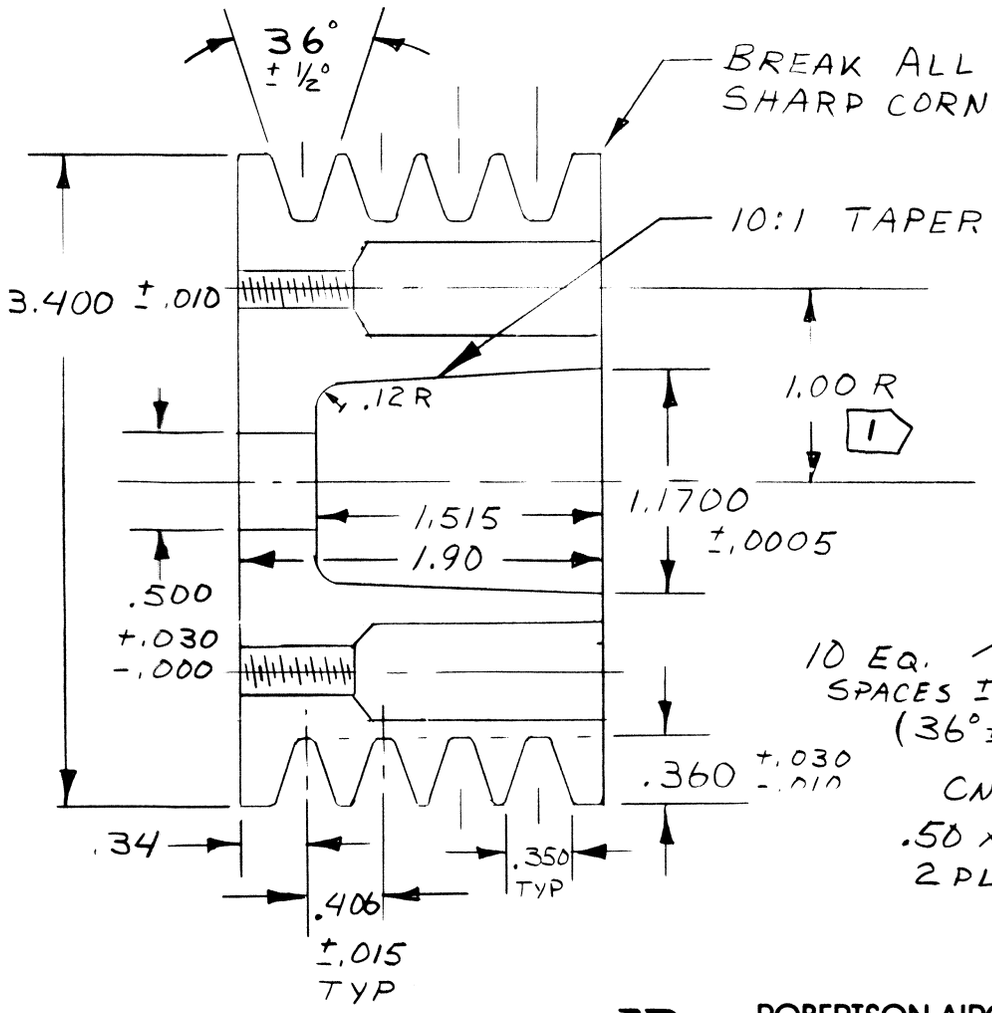
B1-536

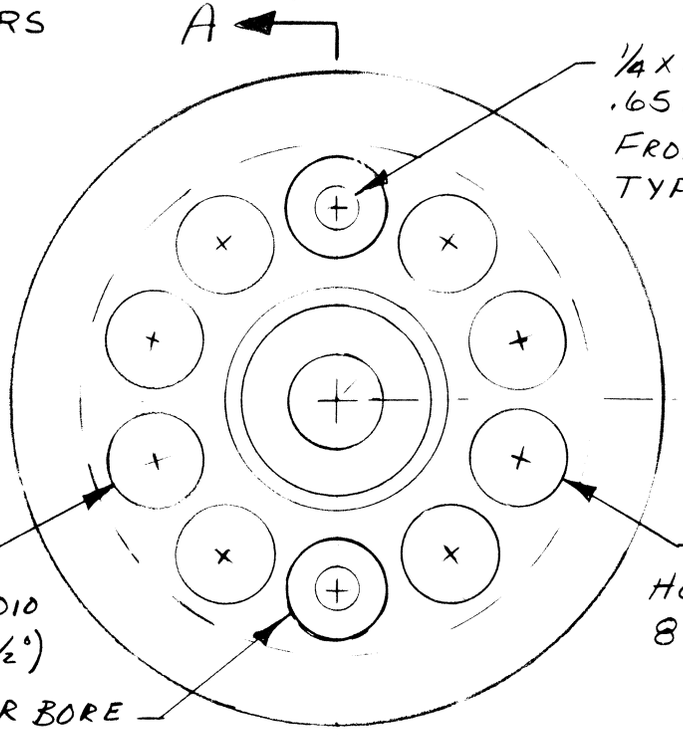
B1A536 REV C

DRN	CHK	APPR	APPR	SCALE:	USED ON DWG.	SHEET
B.B.				1:1	B1-535	3 OF 9

B1A536

REV	DESCRIPTION	DATE	APPR
A	N/A		
B	ADDED 2 MORE HOLES - CNTR- BORED THREADED HOLES	3/7/83	
C	N/A THIS SHT	5/10/83	





1 DIM FOR OPTIONAL HOLES ONLY

2 HOLES OPTIONAL - PUT IN PART ONLY IF SPECIFIED ON W/O.

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

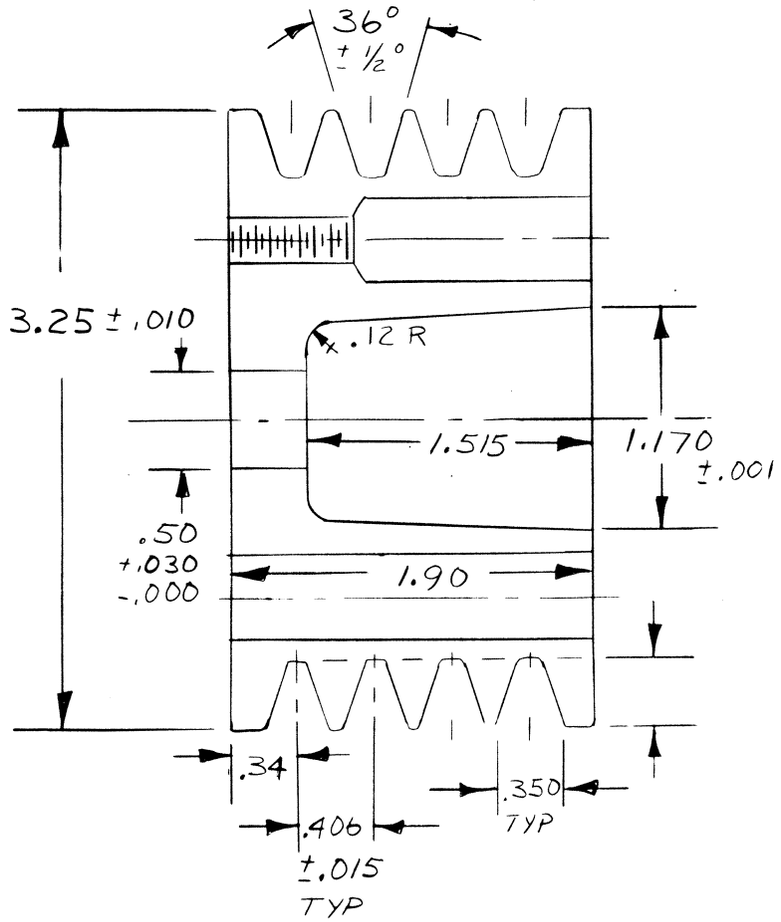
QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
1	B1-536-53	3.40 OD PULLEY	6061-T6 ROD QQ-A-200/8		F205

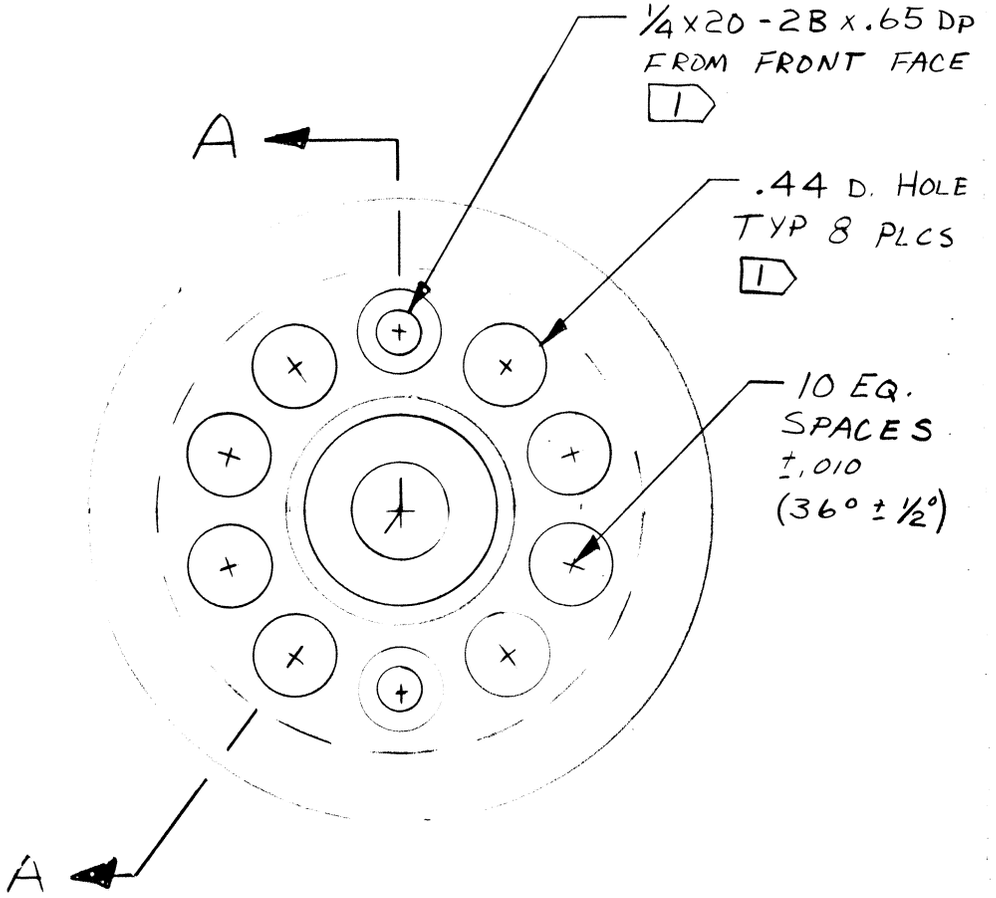
.X ±.1, ±.03, .XXX ±.005, ANGLES ±2°	ROBERTSON AIRCRAFT CORPORATION	B1-536	B1 A536	REV C
DRN B.B 10/25/82	CHK [illegible]	APPR [illegible]	APPR 12/26/82	SCALE: 1:1	USED ON DWG. B1-535	SHEET 6 OF 9

B1 A536

REV	DESCRIPTION	DATE	APPR
A	N/A THIS SHT		
B	ADDED -51 TO L/M & DWG PACKAGE	3/7/83	
C	N/A THIS SHT	5/20/83	

-51 PULLEY





[1] HOLES OPTIONAL - PUT IN PART ONLY IF SPEC. ON W/O.

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
1	B1-536-51	PULLEY - ENGINE 3.25 D	6061-T6 ROD QQ-A-200/8		F-205

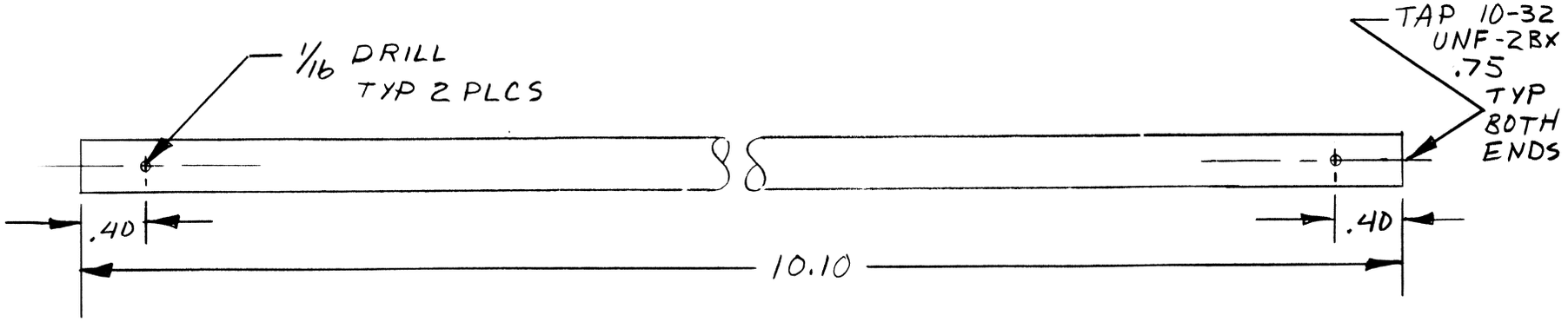
.X ± .1, ± .03, .XXX ± .005, ANGLES ± 2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

B1A536 RE C

DRN	CHK	APPR	APPR	SCALE	USED ON DWG.	SHEET
B.B 3/3/83	MAW			1:1	B1-535	9 OF 9

REV	DESCRIPTION	DATE	APPR
A	N/A THIS SHT	7/12/82	



-13 Ail Pushrod

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
					Black
2	-13	Aileron Pushrod	5/16 x .074W x 10.10 6061-T6 Tube		F 209

.X ± .1, ± .03,
.XXX ± .005
ANGLES ± 2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

AILERON PUSHROD

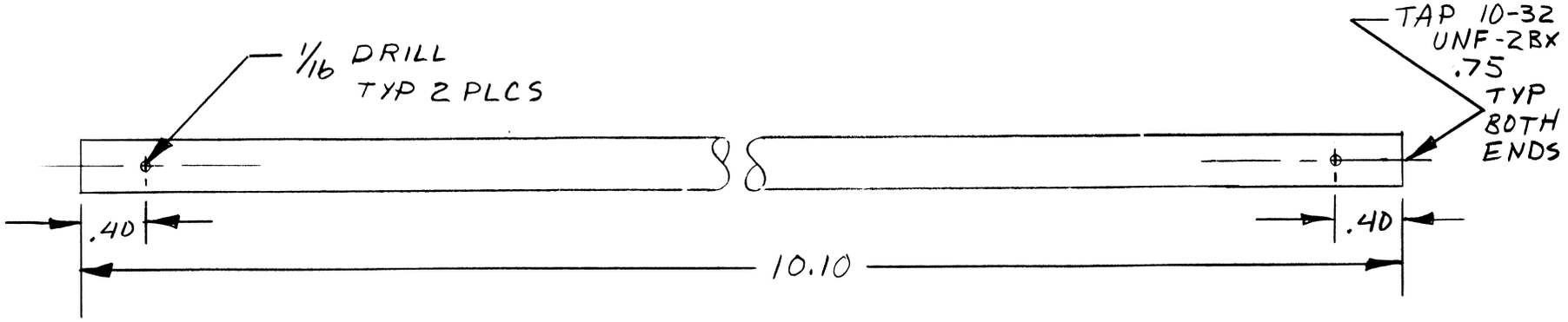
B1A610

REV A

DRN	CHK	APPR	APPR	SCALE	USED ON DWG.	SHEET
B.B.			6/7/82	1:1		2 OF 2

B1A610

REV	DESCRIPTION	DATE	APPR
A	N/A THIS SHT	7/12/82	



-13 Ail Pushrod

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
					Black
2	-13	Aileron Pushrod	5/16 x .074W x 10.10 6061-T6 Tube		F 209

.X ± .1, ± .03,
.XXX ± .005
ANGLES ± 2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

AILERON PUSHROD

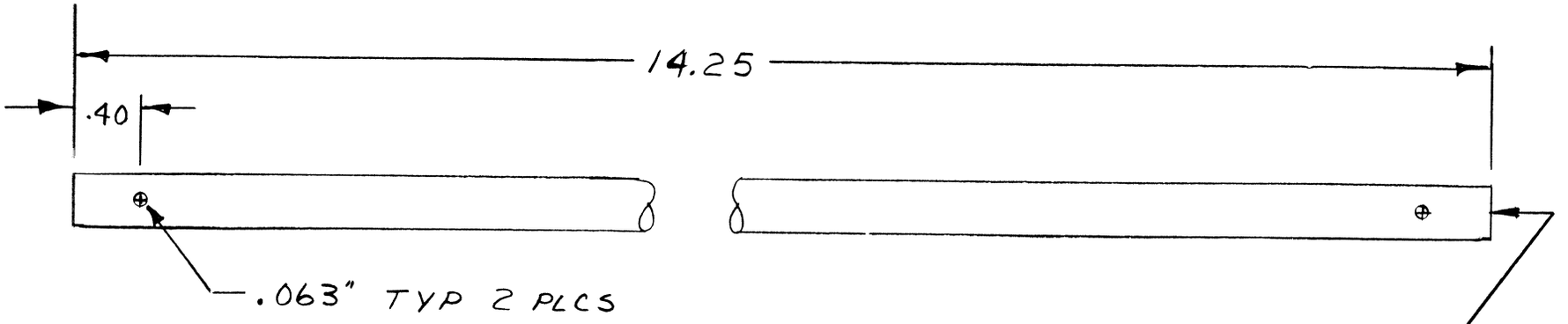
B1A610

REV A

DRN	CHK	APPR	APPR	SCALE	USED ON DWG.	SHEET
B.B.			6/7/82	1:1		2 OF 2

B1A610

REV	DESCRIPTION	DATE	APPR

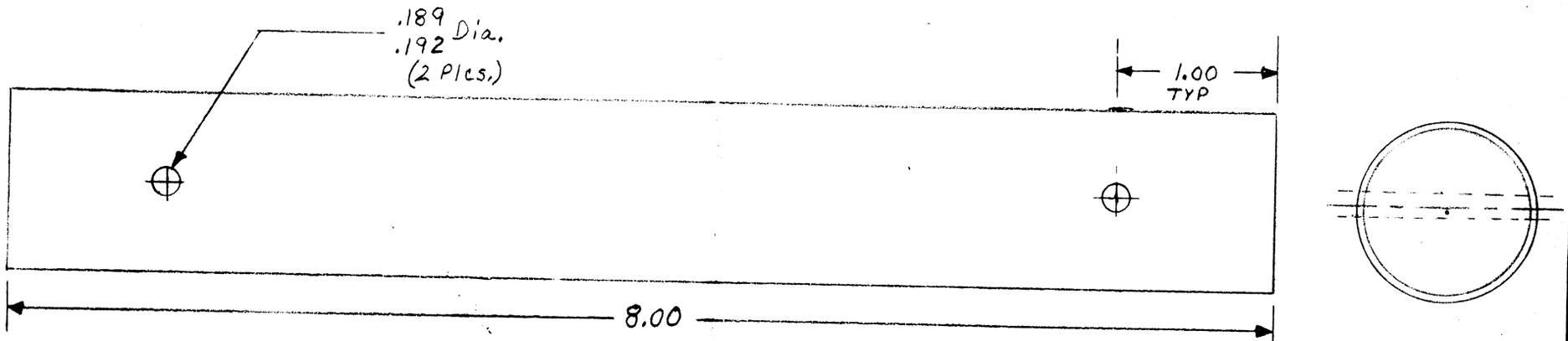


-3 AILERON PUSH ROD

					F207
2	B1-612-3	AILERON PUSHROD	.312 OD x .074W 6061-T6 Al. TUBE		BLACK
QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
.X ± .1, ± .03, .XXX ± .005, ANGLES ± 2°		ROBERTSON AIRCRAFT CORPORATION 839 W. PERIMETER RD., RENTON, WASH. 98055 (206) 228-5000	AILERON PUSH ROD		B1 A 612 REV
DRN B.B	CHK	APPR	APPR	SCALE: 1:1	USED ON DWG.	SHEET 2 OF 2	

B1 A 612

REV	DESCRIPTION	DATE	APPR



-3
-5 SPLICE (TYP)

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
4	-5	Splice Tube - Outbd	1.125 X .058W X 8.0L 6061-T6 Tube	WW-T-700/4	F205
4	-3	Splice Tube - Inbd	1.250 X .058W X 8.0L 6061-T6 Tube	WW-T-700/4	F205

TOL: .X ±.1, .XX ±.03, .XXX ±.05, ANGLES ±2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

SPLICE - Compression Strut

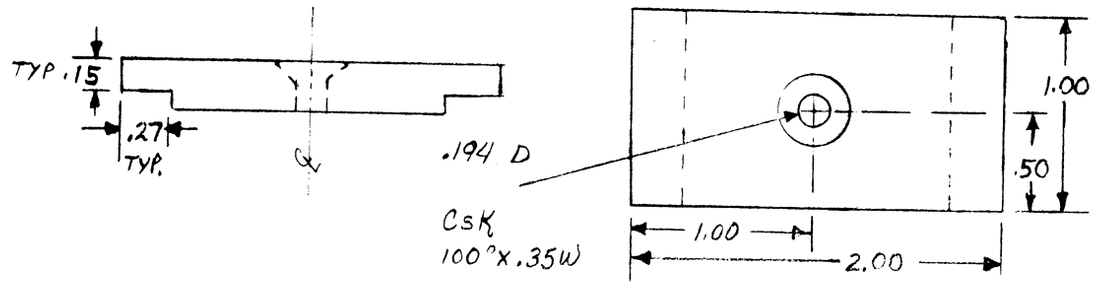
B1 A 901

REV —

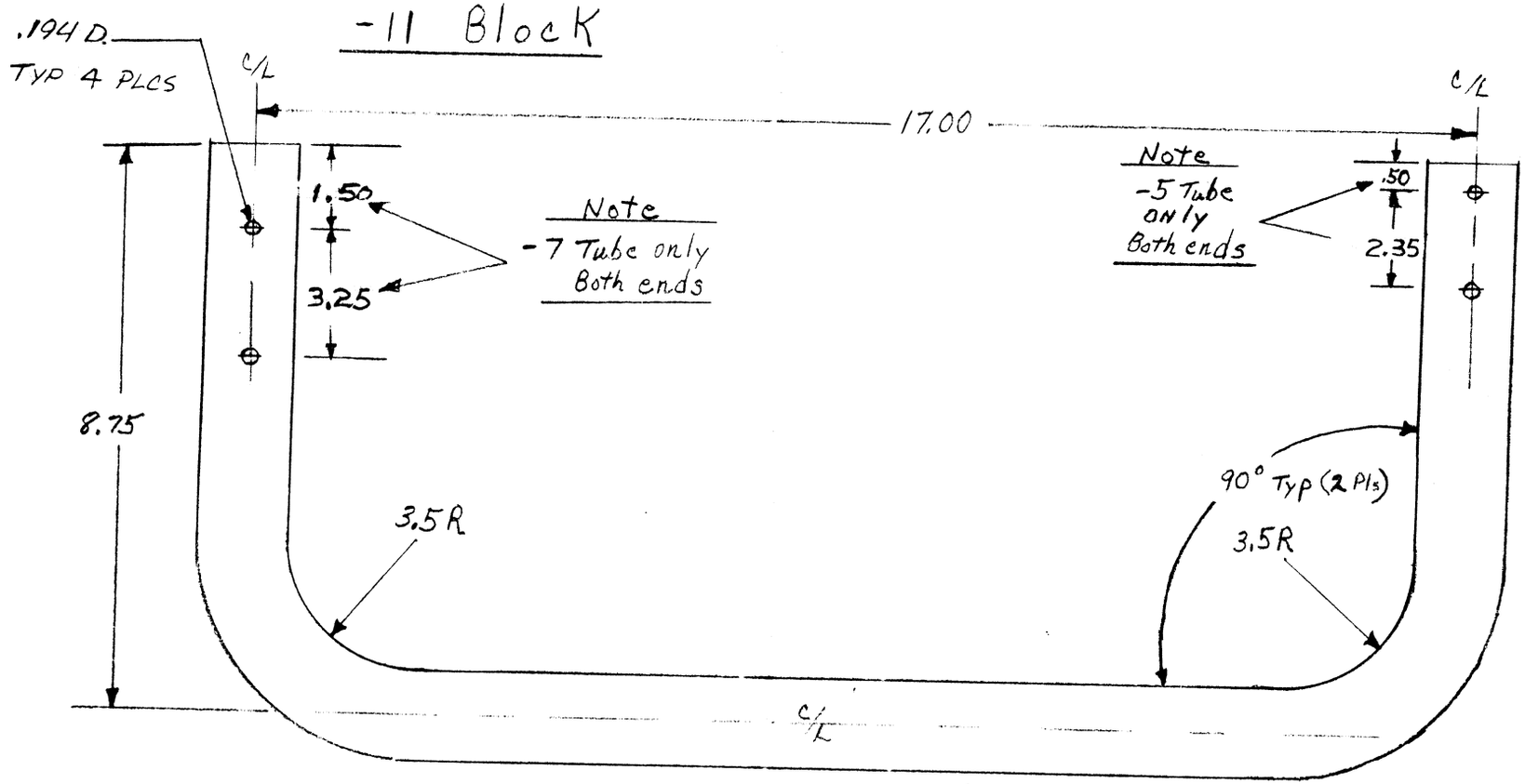
A

DRN	CHK	APPR	APPR	SCALE: Full	USED ON DWG. B1-900-20	SHEET 1 OF 1
Mac 7/29/83	Mac 7/29/83	Mac McWard				

REV	DESCRIPTION	DATE	APPR
A	CORRECTED HOLE SPACING ERROR	11/3/83	B.B.
B-	" " " " "		
	WAS 2.00 -NOW 1.50 (-7)	8/22/83	BB.



-11 Block



-5 & -7 Tube (Same Except Noted)

1/L	81-960-5/-7	Tube -5 UPR/-7 LWR	1.00X.049WX 32.00L 6061-T6 Tube		F211
4	81-960-11	Attach Block	.250 X 1.00 X 2.00L 6061-T6 Sht. (2024-T3 OPT.)		F205
QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH

TOL: .X ±.1, .XX ±.03, .XXX ±.05, ANGLES ±2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

Details - Rudder Pedals

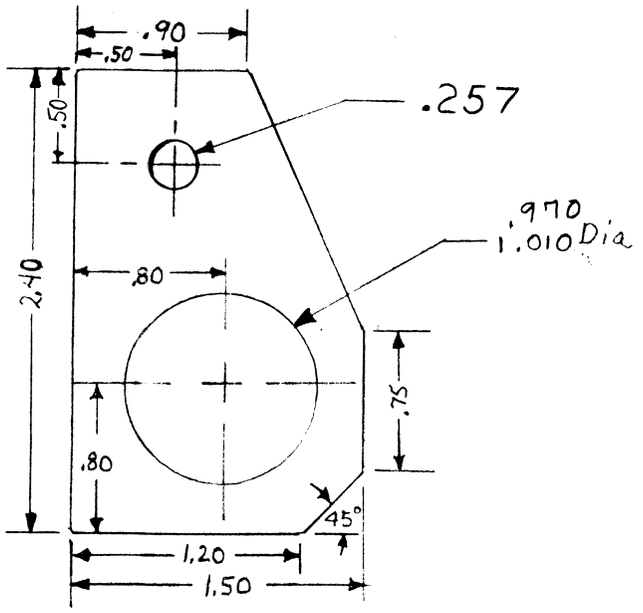
B1 A 960

REV B

DRN	CHK	APPR	APPR	SCALE	USED ON DWG.	SHEET
Mac	Mac	Mac 8/16/83		None	B1-950	1 OF 3

B1 A 960

REV	DESCRIPTION	DATE	APPR

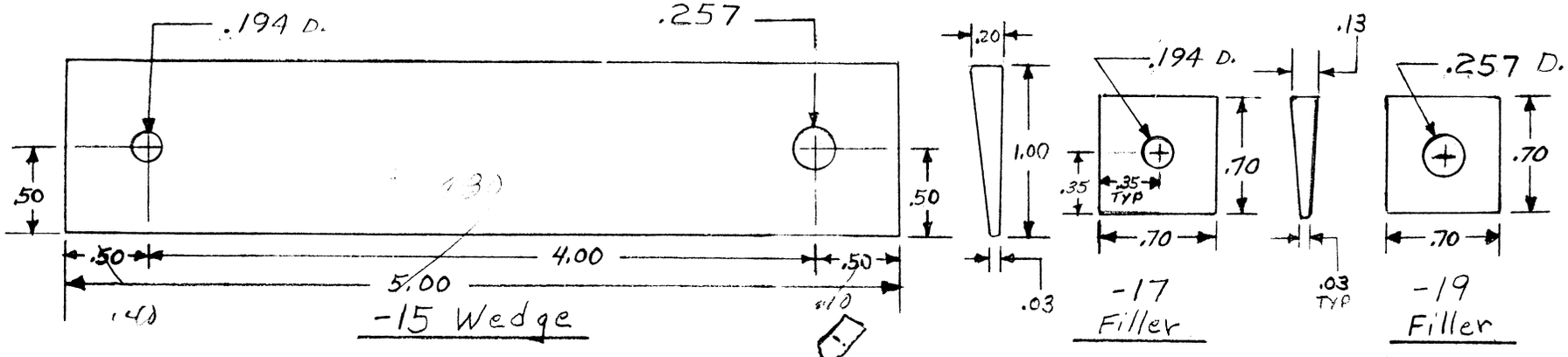


-13 Guide

NOTE: [1] = TMS 60-16789 6061-T6 PREF.

.194 = #10 DRILL

.257 = #F DRILL



-15 Wedge

-17 Filler

-19 Filler

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
2	B1-961-19	Filler-Tapered	Make from BAC 1513-118-7075T654 Alum	QQ-A-200/11	F205
2	B1-961-17	Filler-Tapered	Make from BAC 1513-118-7075T654 Alum	QQ-A-200/11	F205
2	B1-961-15	Wedge-Tapered	Make from BAC 1513-118-7075T654 Alum.	QQ-A-200/11	F205
1	B1-961-13	Guide-P/R	.125 Bare Alum 6061-T6 Sht		F205

TOL: .X ±.1, .XX ±.03, .XXX ±.005 ANGLES ±2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

COCKPIT PARTS

B1 A 961

REV 1R

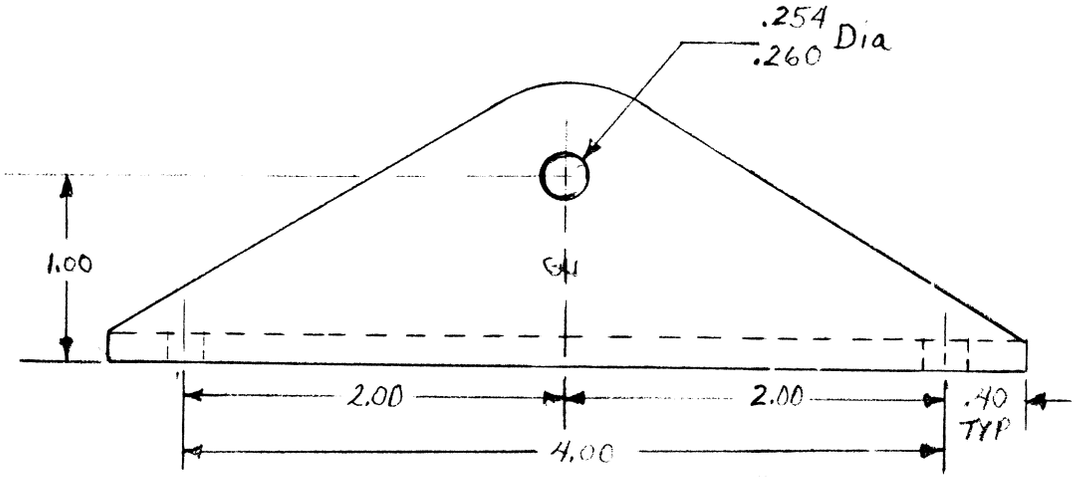
DRN [illegible] 8/11/83 | CHK [illegible] | APPR [illegible] 8/11/83 | APPR BE 11 11 83 | SCALE: None | USED ON DWG. B1-950 | SHEET 1 OF 5

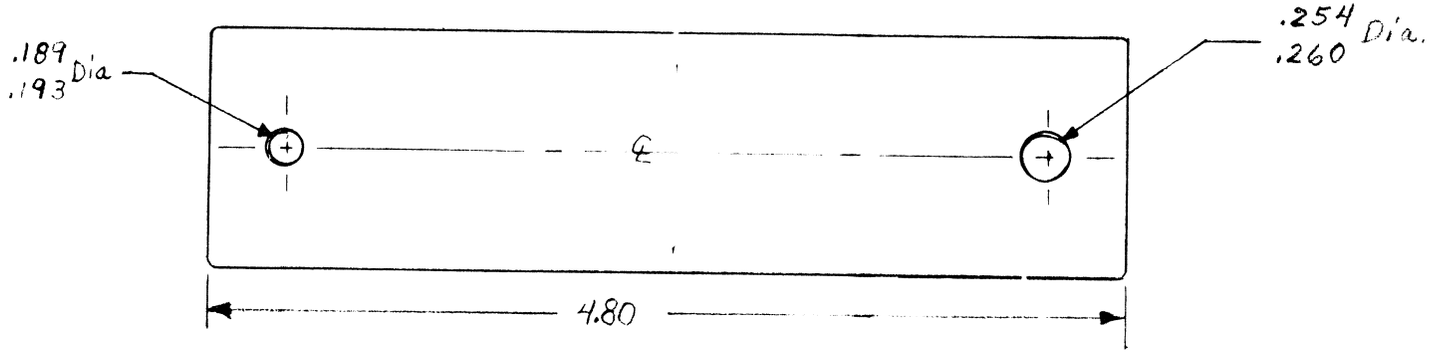
B1 A 961

NOTE: .189 / .193 D. = #10 DRILL

.254 / .260 D. = #F DRILL

REV	DESCRIPTION	DATE	APPR





-23 Brkt.

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
2	81-961-23	Bracket - Diagonal Strut	AND10137-1207 EXT. 6061-T6 Chnl.		F205

TOL: .X ±.1, .XX ±.03, .XXX ±.005 ANGLES ±2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

BRACKET - DIAG. STRUT ATTACH

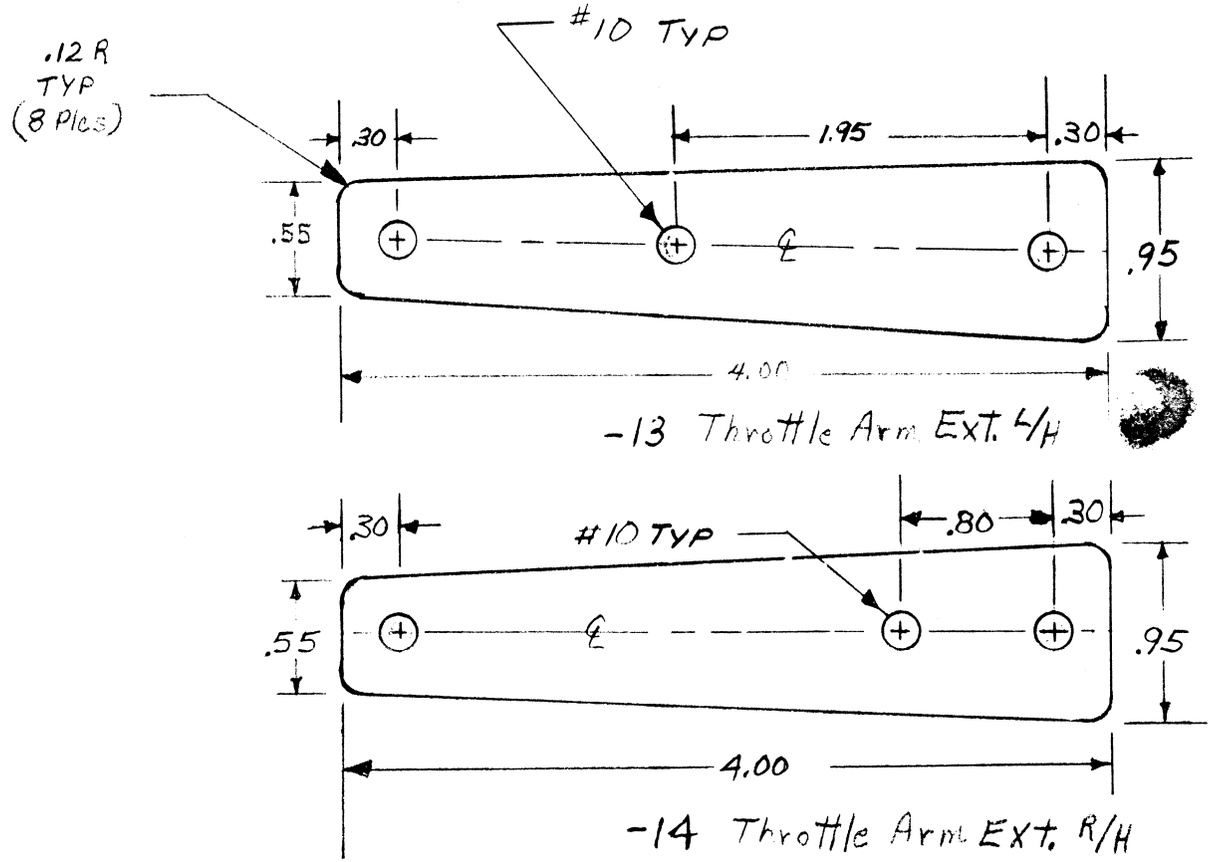
81 A 961

REV 1R

DRN	CHK	APPR	APPR	SCALE:	USED ON DWG.	SHEET
MAC M.	B.B.			1:1		2 OF 5

81 A 961

REV	DESCRIPTION	DATE	APPR



QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
1	B1-962-14	Throttle Arm Ext. R/H	.125" Alum. Sht. Bare 6061-T6		F 205
1	B1-962-13	Throttle Arm Ext. L/H	.125 Alum. Sht. Bare 6061-T6		F 205

TOL: .X ±.1, .XX ±.03, .XXX ±.05 ANGLES ±2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

Throttle Arm Extension

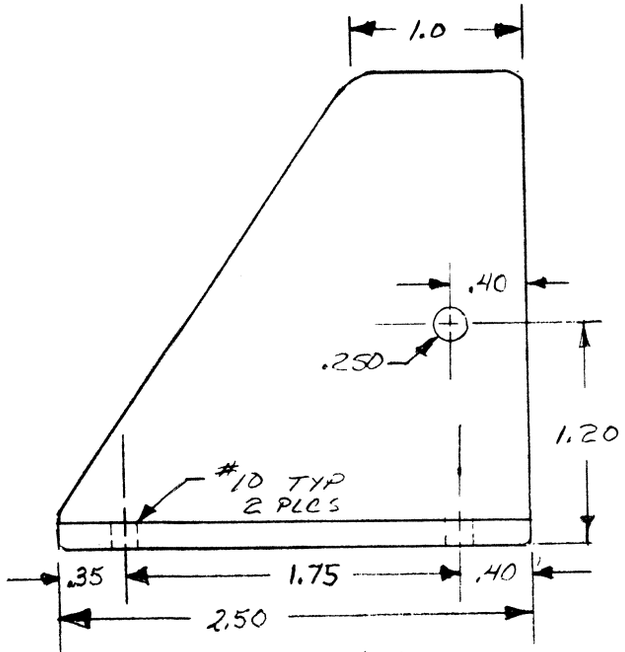
B1 A 962

REV 1R

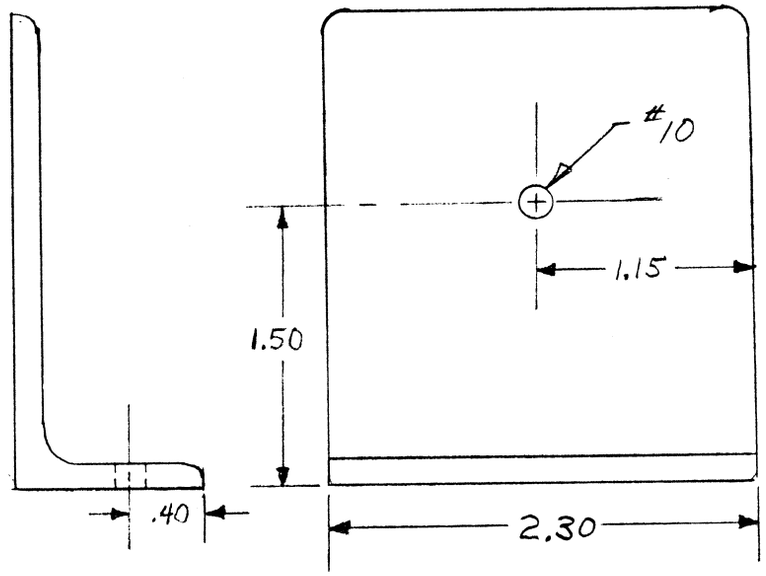
DRN	CHK	APPR	APPR	SCALE:	USED ON DWG.	SHEET
Mac	B.B.			FULL		3 OF 5

B1 A 962

REV	DESCRIPTION	DATE	APPR



-9 Brkt



-5 Brkt.

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
1	B1-962-9	Bracket - Cable Attach	TMS 60-354 Ext. Angle 6061-T6511		F205
2	B1-962-5	Bracket - Torque Tube Attach	TMS 60-354 Ext. Angle 6061-T6511		F205

TOL: .X ±.1, .XX ±.03, .XXX ±.05, ANGLES ±2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

Details - Throttle

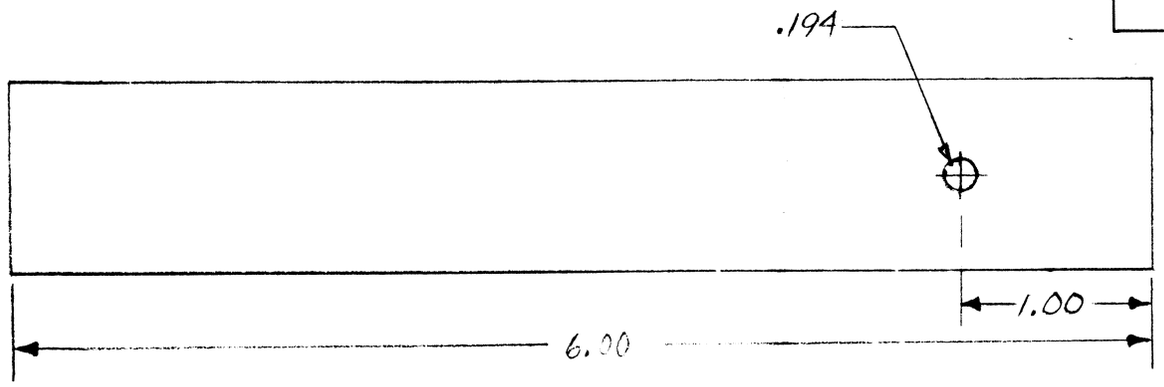
B1 A 962

REV HR

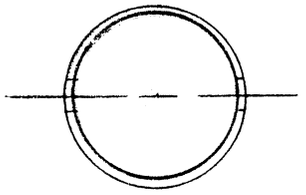
DRN	CHK	APPR	APPR	SCALE: FULL	USED ON DWG. B1-950	SHEET 4 OF 5
Mac	B.B.					

B1A962

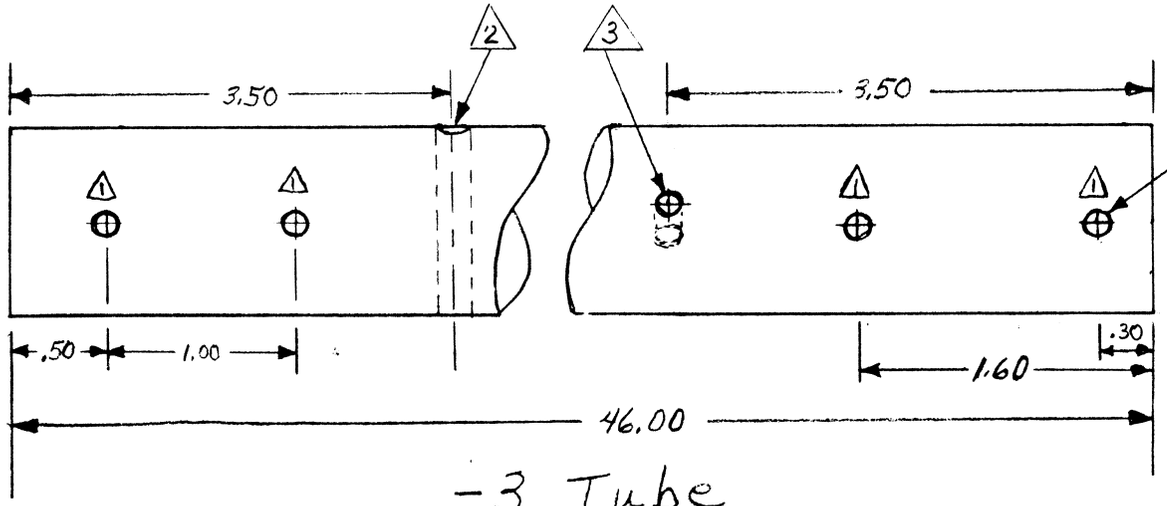
REV	DESCRIPTION	DATE	APPR

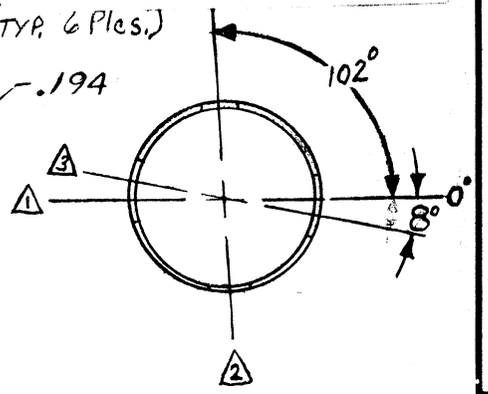


-11 Tube



Note
-27
4 are flush
-23 pls





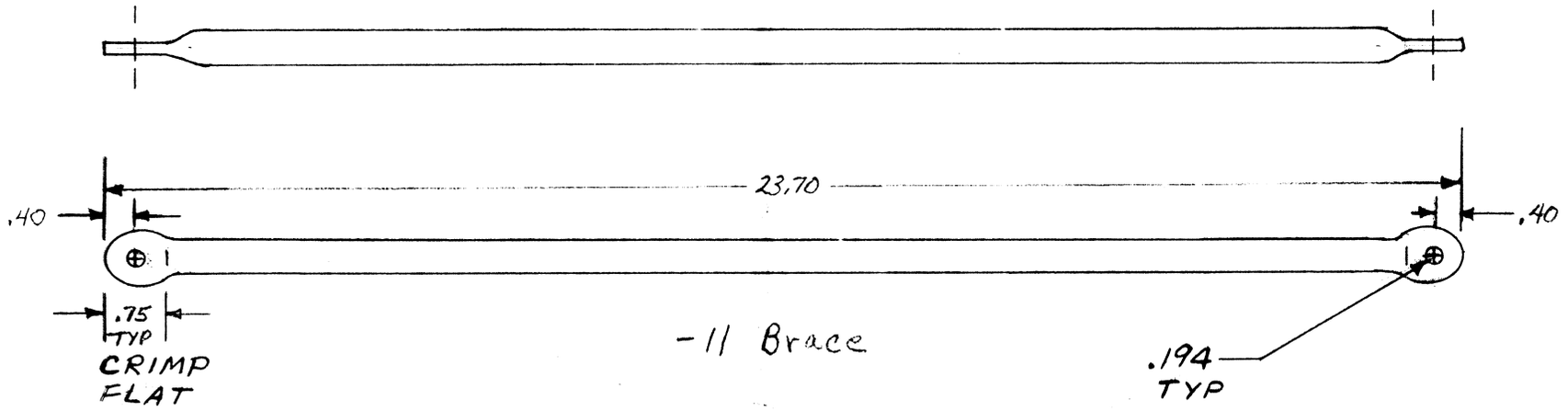
-3 Tube

1	B1-962-3	Torque Tube - Throttle	1.00 x .049W x 46.0L Tube - 6061-T6 Alum.		F205
2	B1-962-11	Tube - Throttle	1.125 x .058W x 6.0L Tube - 6061-T6 Alum.		F205
QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH

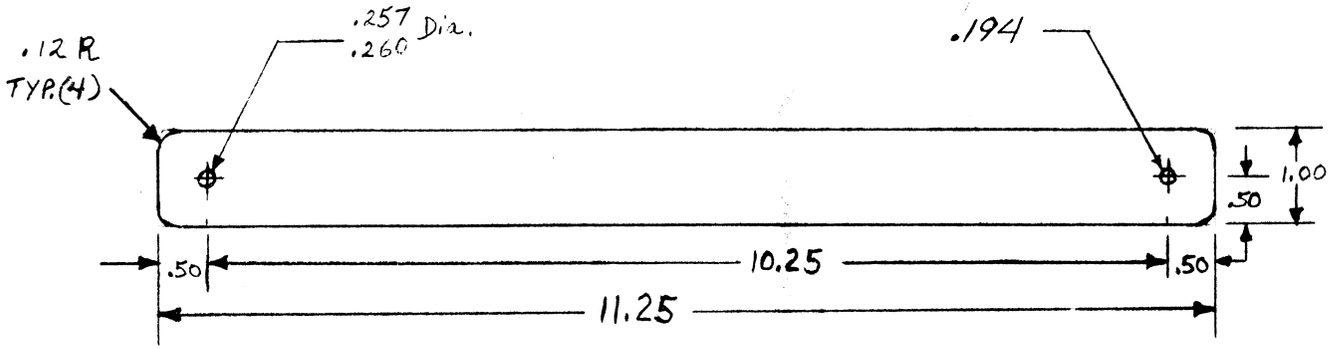
TOL: .X ±.1, .XX ±.03, .XXX ±.05 ANGLES ±2°	ROBERTSON AIRCRAFT CORPORATION 839 W. PERIMETER RD., RENTON, WASH. 98055 (206) 228-5000	Details - Throttle	B1 A 962 REV HR
DRN Mgc	CHK Mgc 8/16 APPR Mgc APPR	SCALE: None USED ON DWG. B1-950	SHEET 5 OF 5

B1 A 962

REV	DESCRIPTION	DATE	APPR



-11 Brace



-7 Support Strap

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
1	B1-963-11	Brace - Aft Keel Strut	.500X.049WX23.70L 6061-T6 Tube		F211
2	B1-963-7	Support Strap	1.00X11.25LX.075 303/304 S/Steel Sht.		F000

TOL: .X ±.1, .XX ±.03, .XXX ±.005 ANGLES ±2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

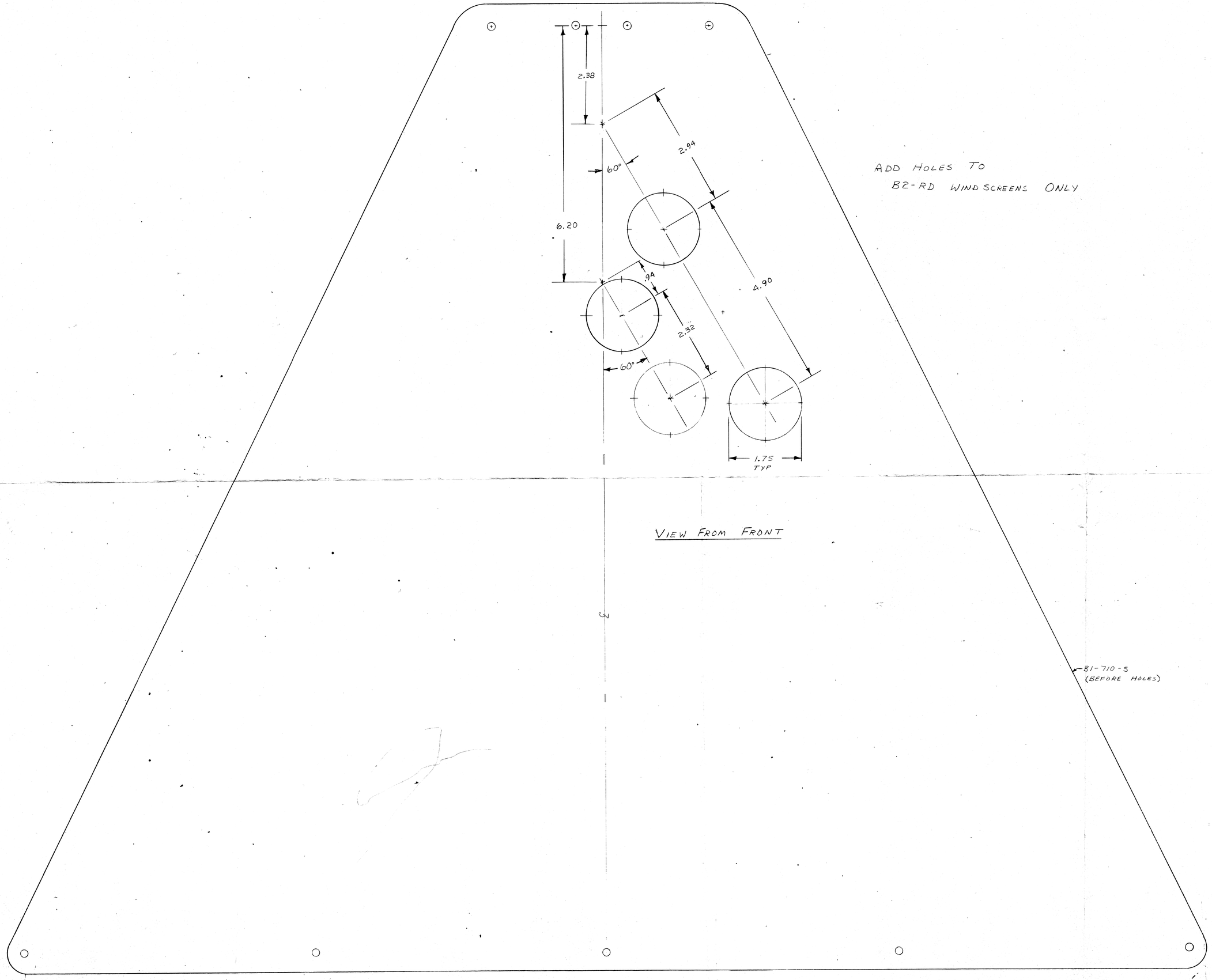
Support Strap

B1 A 963

REV HR

DRN	CHK	APPR	APPR	SCALE	USED ON DWG.	SHEET
Mac	B.B 11/8/83	Mac 8/9/83		None	B1-950	1 OF 2

B1 A 963



ADD HOLES TO
B2-RD WIND SCREENS ONLY

VIEW FROM FRONT

81-710-5
(BEFORE HOLES)

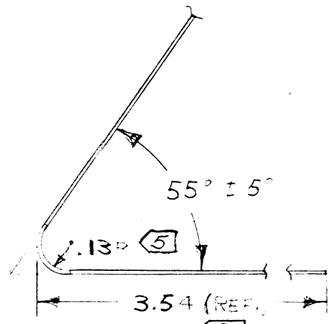
ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

B2-RD WIND SCREEN MOD

8-16-83 B. BASHFORTH

REV	DESCRIPTION	DATE	APPR
A	ADDED THIS SHT – REV – 1 –	11/14/83	
B	▱ 2-3-4	1/14/85	BB
C	▱ 5	9/16/5	BB

END VIEW TYP



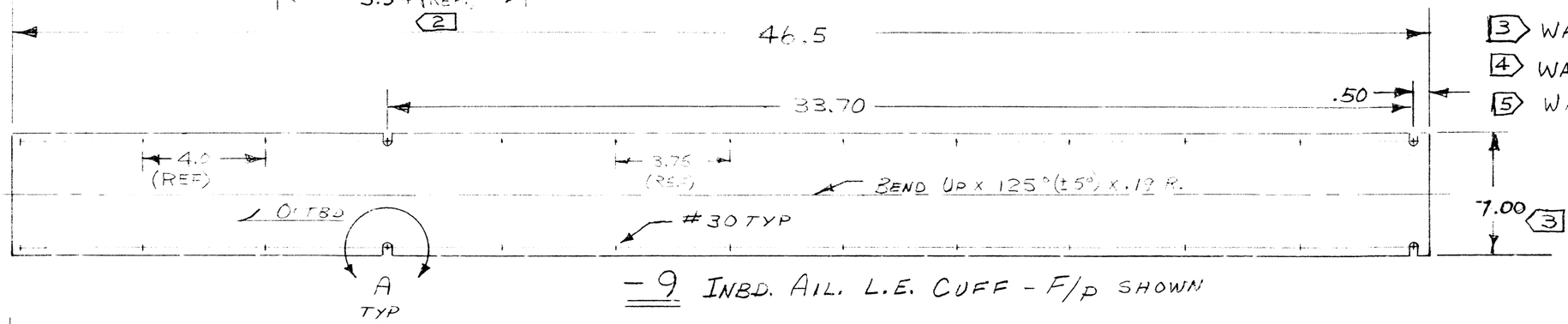
NOTES: 1 = MAT'L PREFERENCE:
6061-T4 ~ T6
6063-T4 ~ T832
5052 - H32 ~ H36
3003 - H12 ~ H18
2024 - T3

2 WAS 2.04

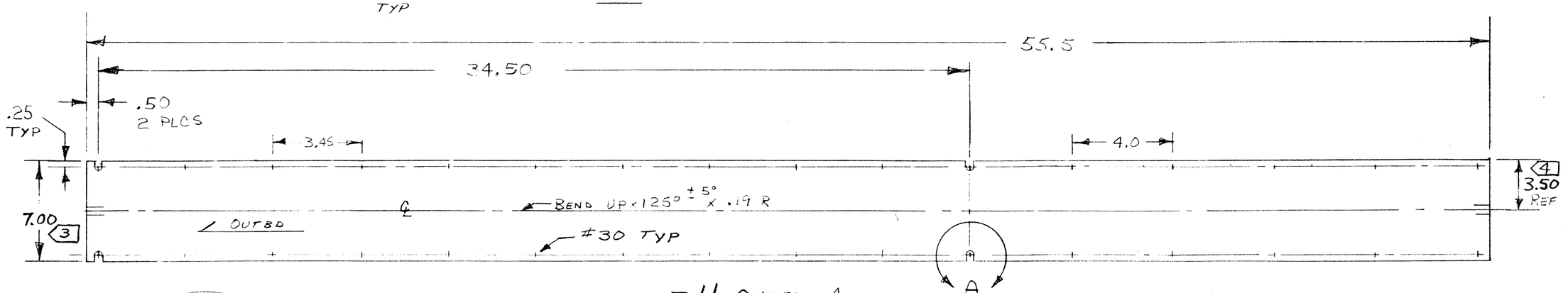
3 WAS 4.00

4 WAS 2.00

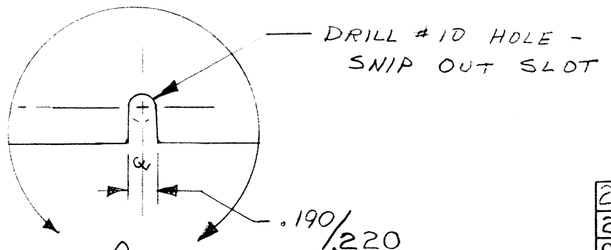
5 WAS .19 R



-9 INBD. AIL. L.E. CUFF - F/P SHOWN



-11 OUTBD. AIL. L.E. CUFF-F/P (SHOWN)



2 EA	-11	OUTBD AILERON L.E. CUFF	.012 (.012/.020)	3 X 7.00 X 55.5"	2024-T3 CLAD OPT 6061-T6 SHT	1 F-205
2 EA	B1-225-9	INBD AILERON L.E. CUFF	.012 (.012/.020)	X 7.00 X 46.5"	(2024-T3 CLAD OPT) 6061-T6 SHT	1 F-205
QTY	PART NO.	NAME	MATERIAL 3			SPEC FINISH

TOL: .X ±.1, .XX ±.03, .XXX ±.05, ANGLES ±2°

POWERS BASHFORTH AIRCRAFT CORPORATION
Arlington Airport, 4700 188th Street N.E. Suite G
Arlington, Washington 98223 U.S.A.

AILERON L.E. CUFFS

B1 B 225 REV B

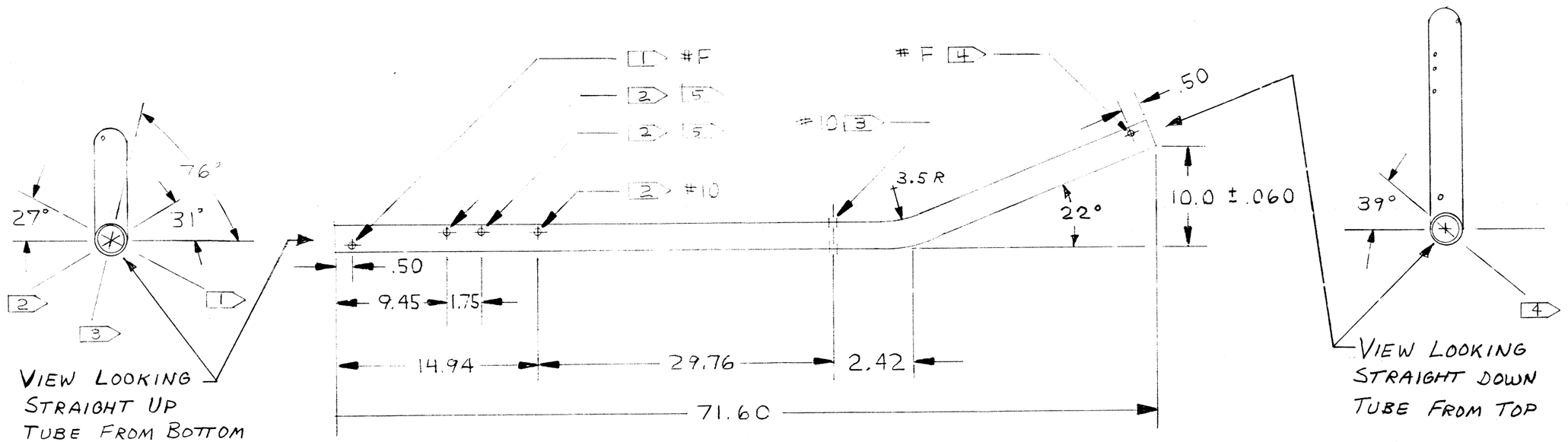
DRN BB - 10-14-93 | CHK Mac | APPR Mac McClard | APPR | SCALE: 1/4 | USED ON DWG. | SHEET 2 OF 2

B1 B 225

REV	DESCRIPTION	DATE	APPR

NOTES:

5 #10 TYP 2 PLCS, -7 (L.H.) ONLY

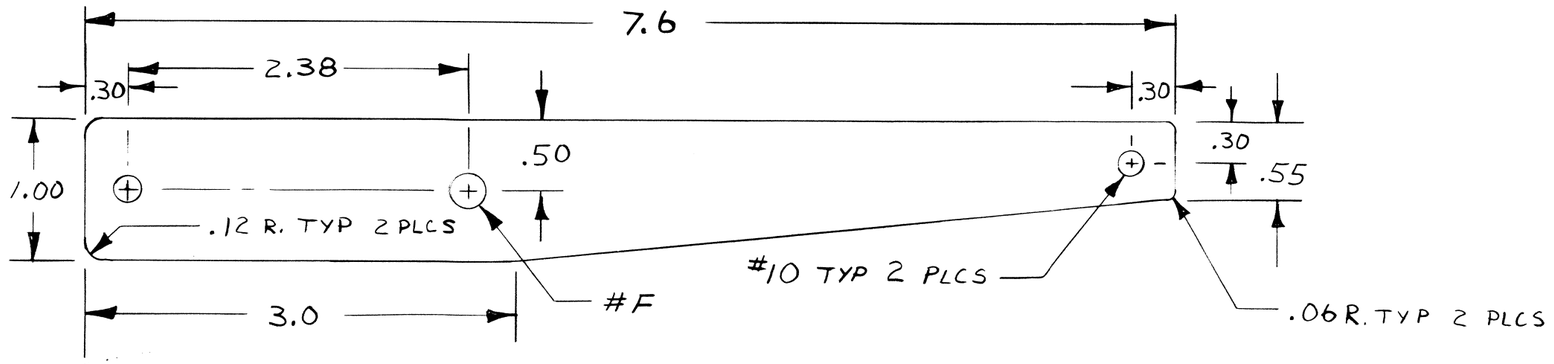


-7 Cockpit Diagonal Strut (LH Shown)
-8 (R.H. OPP.)

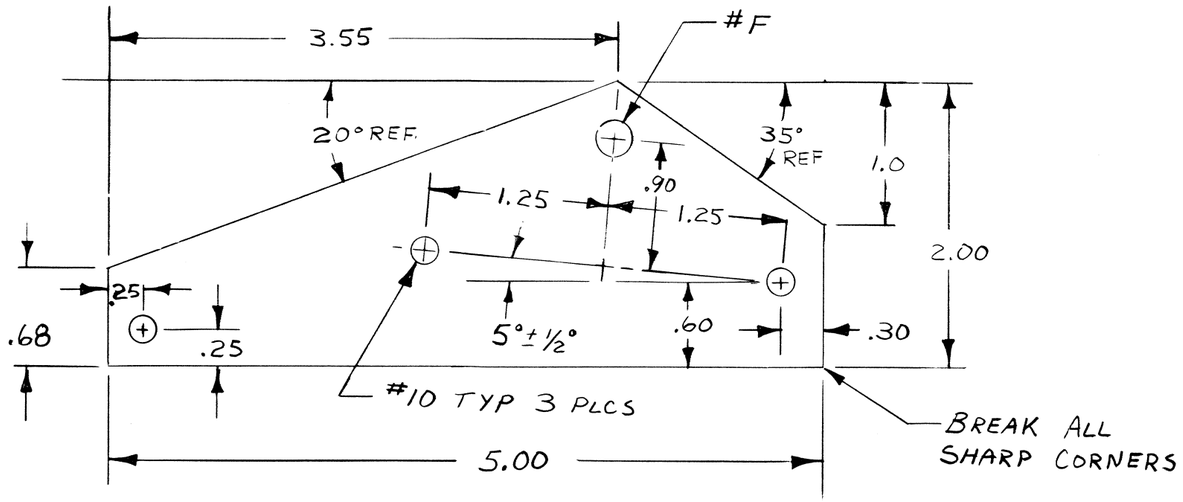
1/1	B1-961 -7/8	Cockpit Diag Strut LH/RH	1.00 X .065 w 6061-T6 Tube		F211
QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
TOL: .X ±.1, .XX ±.03, .XXX ±.05 ANGLES ±2°		ROBERTSON AIRCRAFT CORPORATION 839 W. PERIMETER RD., RENTON, WASH. 98055 (206) 228-5000	COCKPIT DIAGONAL STRUT	B1 B 961	REV IR
DRN B.H.	CHK B.B.	APPR APPR	SCALE: None USED ON DWG.	SHEET 3 OF 5	

B1 B 961

REV	DESCRIPTION	DATE	APPR
A	NEW DWG - DIM. REV.	3/8/83	



-5 THROTTLE ARM



-7 THROTTLE PLATE

PART NO.	USED ON	SERIAL NO.	SECT.
APPLICATION			

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
1	-7	THROTTLE PLATE	.125 x 2.00 x 5.00" - 6061-T6 SHT		F-205
1	B1-510-5	THROTTLE ARM	.125 x 1.00 x 7.6" - 6061-T6 SHT		F-205

TOL: .X ± .1, ± .03, .XXX ± .005, ANGLES ± 2°

ROBERTSON AIRCRAFT CORPORATION

THROTTLE PARTS

B1B510

REV A

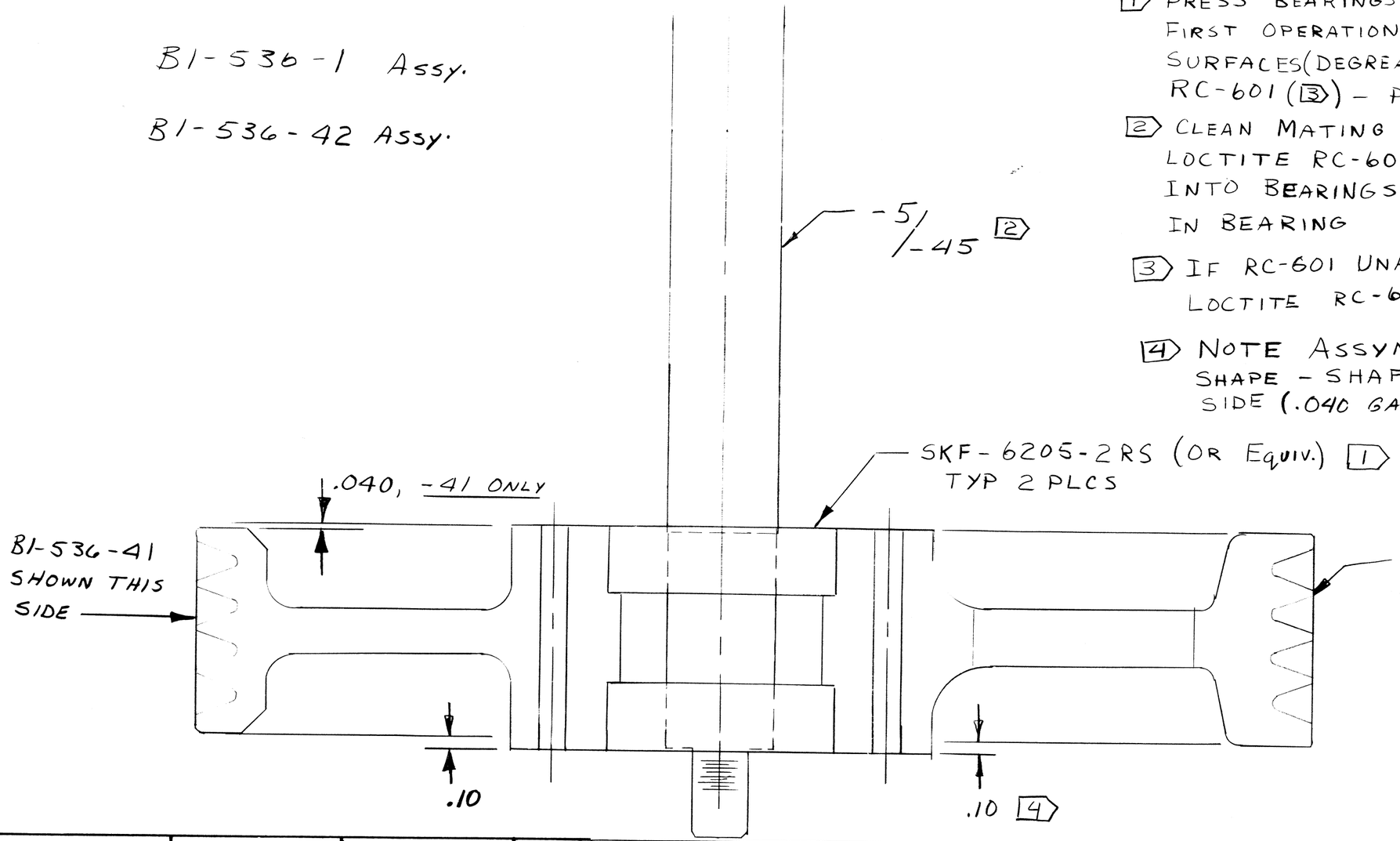
DRN B.B. 3/8/83 | CHK | APPR | APPR | SCALE: | USED ON DWG. | SHEET 1 OF 1

B1B510

REV	DESCRIPTION	DATE	APPR
B	- ADDED -41 COVERAGE	3/7/83	MB
C	REVISED -41 ASSY - NOW -42 ASSY ADDED -45 CALLOUT TO DWG & L/M	5/20/83	MB

B1-536-1 Assy.

B1-536-42 Assy.



NOTES

[1] PRESS BEARINGS INTO PULLEY AS FIRST OPERATION - CLEAN MATING SURFACES (DEGREASE) - APPLY LOCTITE RC-601 ([3]) - PRESS TOGETHER

[2] CLEAN MATING SURFACE - APPLY LOCTITE RC-601 ([3]) PRESS SHAFT INTO BEARINGS TILL SHAFT BOTTOMS IN BEARING

[3] IF RC-601 UNAVAILABLE USE LOCTITE RC-680

[4] NOTE ASSYMETRICAL PULLEY SHAPE - SHAFT GOES ON FLUSH SIDE (.040 GAP -41 ONLY)

ROBERTSON AIRCRAFT CORPORATION
SNOHOMISH COUNTY AIRPORT
NORTH COMPLEX BUILDING C-72
EVERETT, WASHINGTON 98204

PART NO.	USED ON	SERIAL NO.	SECT.
APPLICATION			

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
	-42 Assy	PROP PULLEY ASSY	1ea -41, 1ea -45, 2ea SKF 6205-2RS BEARING		
1	B1-536-1 Assy	PROP PULLEY ASSY	1ea -1, 1ea -5, 2ea SKF 6205-2RS BEARING.		

TOL: .X ±.1, ±.03, .XXX ±.005, ANGLES ±2°

ROBERTSON AIRCRAFT CORPORATION

B1-536-1/-42 Assy.

B1B536

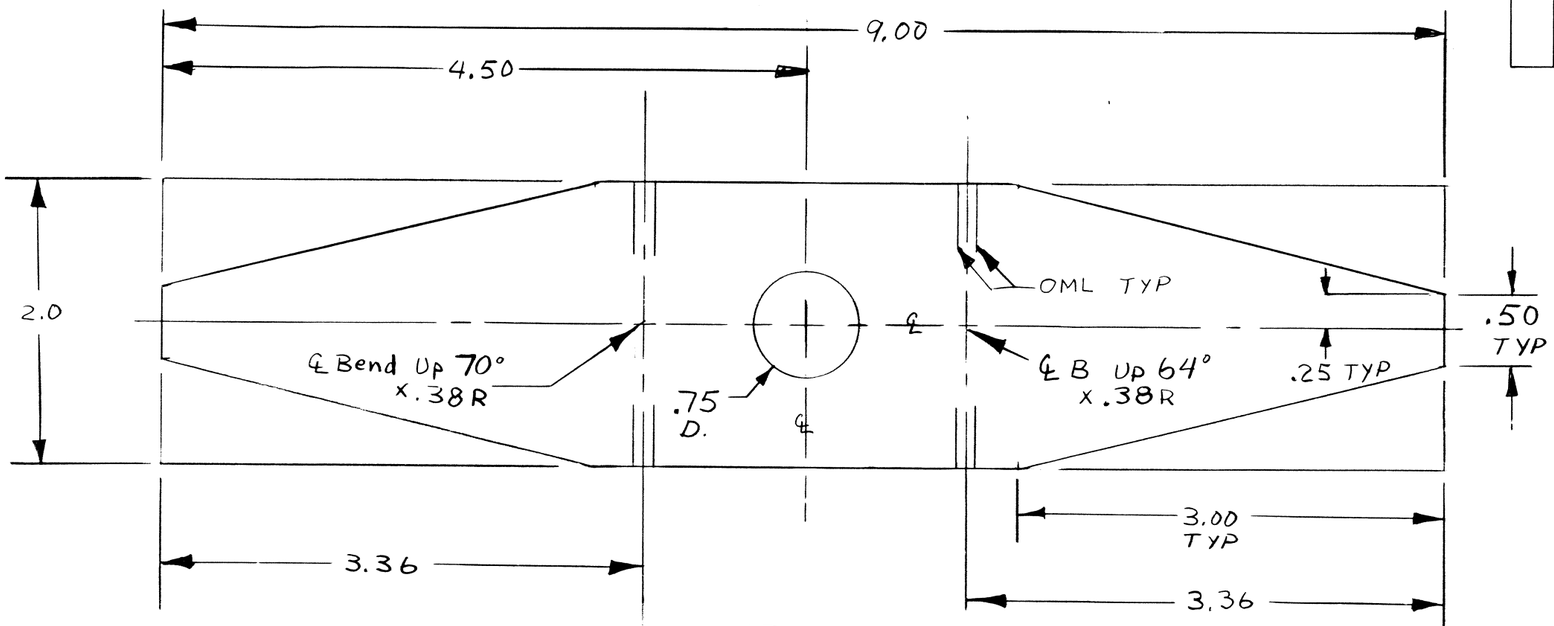
REV C

DRN B.B. CHK MAC APPR Joe M Ward APPR 6/1/82 SCALE: 1:1 USED ON DWG. B1-535

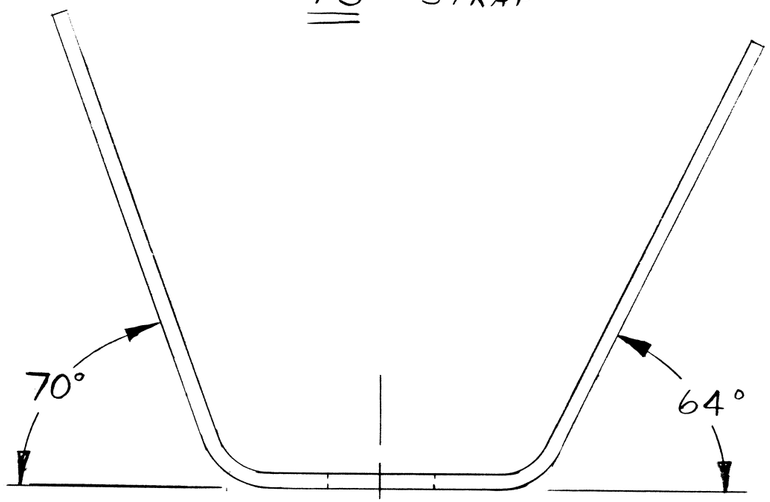
SHEET 5 OF 9

B1B536

REV	DESCRIPTION	DATE	APPR
A	-13 REVISED - EXHAUST SYSTEM REDESIGNED-	11/12/82	



-13 STRAP



PART NO.	USED ON	SERIAL NO.	SECT.
APPLICATION			
430 COYUNA - B1-RD S/N # 001 - ON			

1	B1-540-13	MUFFLER MOUNT STRAP	2.0x9.0x.10 4130N STRAP		-
					-
QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH

TOL: .X ±.1, ±.03, .XXX ±.005, ANGLES ±2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

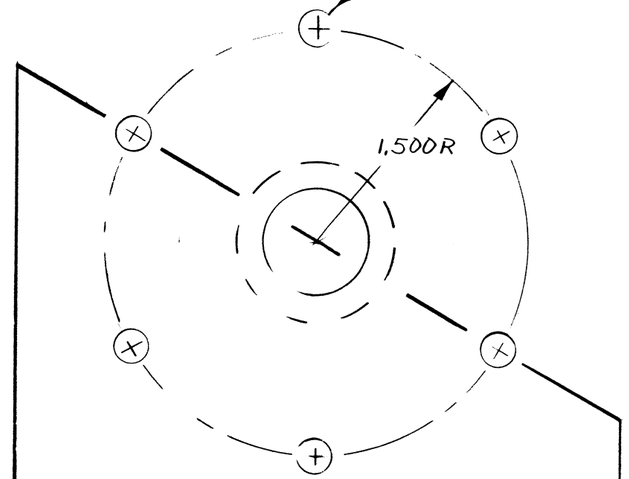
EXHAUST SYSTEM - BRACKET | B1B540 | REV A

DRN B. B 11/12/82 | CHK Mac | APPR Mac McCord 11/16/82 | APPR | SCALE: 1:1 | USED ON DWG. B1-540 sht 4 | SHEET 5 OF 5

B1B540

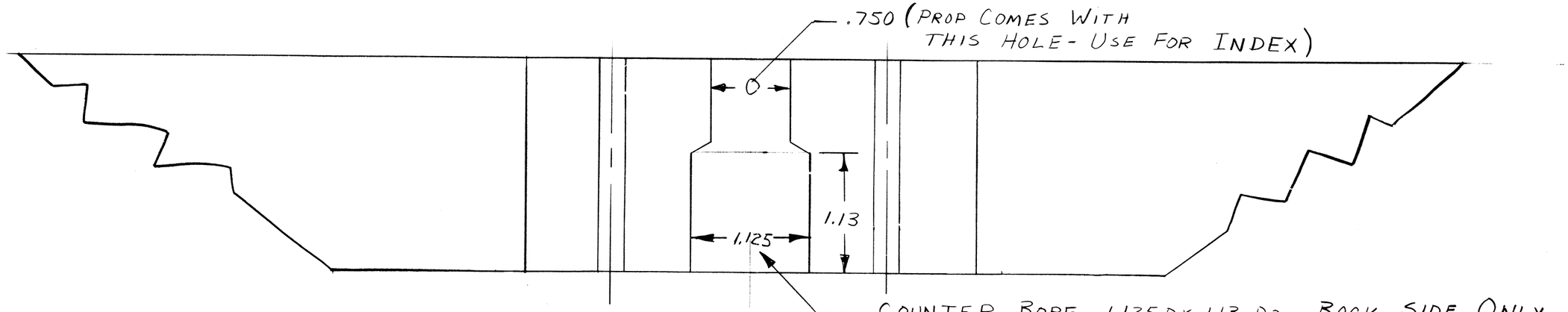
REV	DESCRIPTION	DATE	APPR

NOTE: THIS HOLE PATTERN FOR BELT DRIVES ONLY



CO-ORDINATE HOLES WITH B1-536-1 & -33

B1-550-1 PROP



COUNTER BORE 1.125 DX 1.13 DP BACK SIDE ONLY

B1B550-0

PART NO.	USED ON	SERIAL NO.	SECT.
APPLICATION			

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH

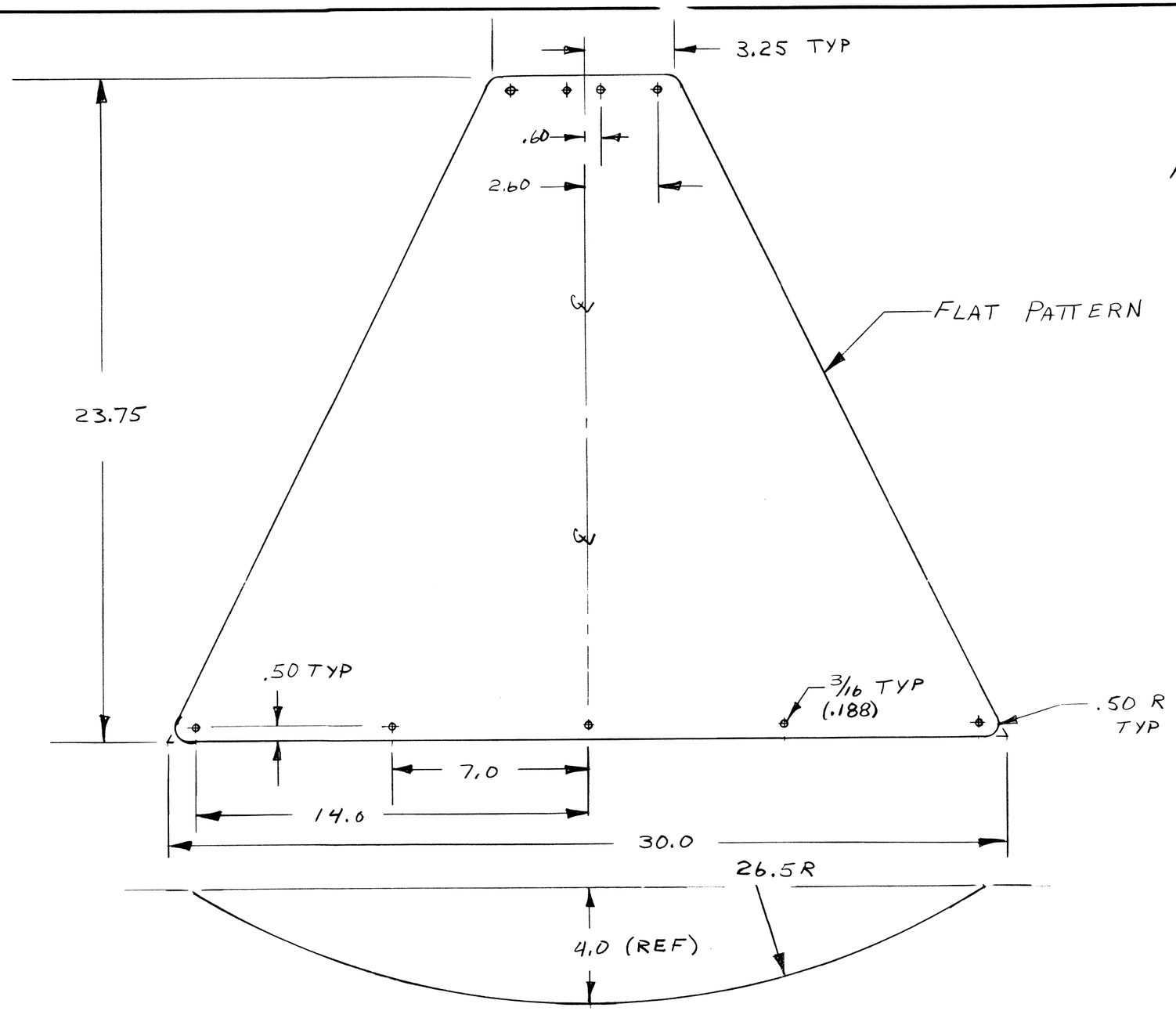
TOL: .X ±.1, ±.03, .XXX ±.005, ANGLES ±2

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

PROP HUB DETAIL B1-550 | B1B550 | REV

DRN B.B | CHK Mac | APPR [illegible] | APPR 6/7/82 | SCALE: 1:1 | SHEET 1 OF 1

REV	DESCRIPTION	DATE	APPR
A	CHANGED THIS SHT TO SHT 2 ADD SHT 1 - DETAIL AND L/M	2/7/83	



NOTES:

1. #2-MAT'L = .125 "MAR-GARD" LEXAN

PART NO.	USED ON	SERIAL NO.	SECT.
APPLICATION			

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
1	B1-710-5	WIND SHIELD	.125 ACRYLIC SHEET (PLEXIGLAS) 1		

TOL: .X ±.1, ±.03, .XXX ±.005, ANGLES ±2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

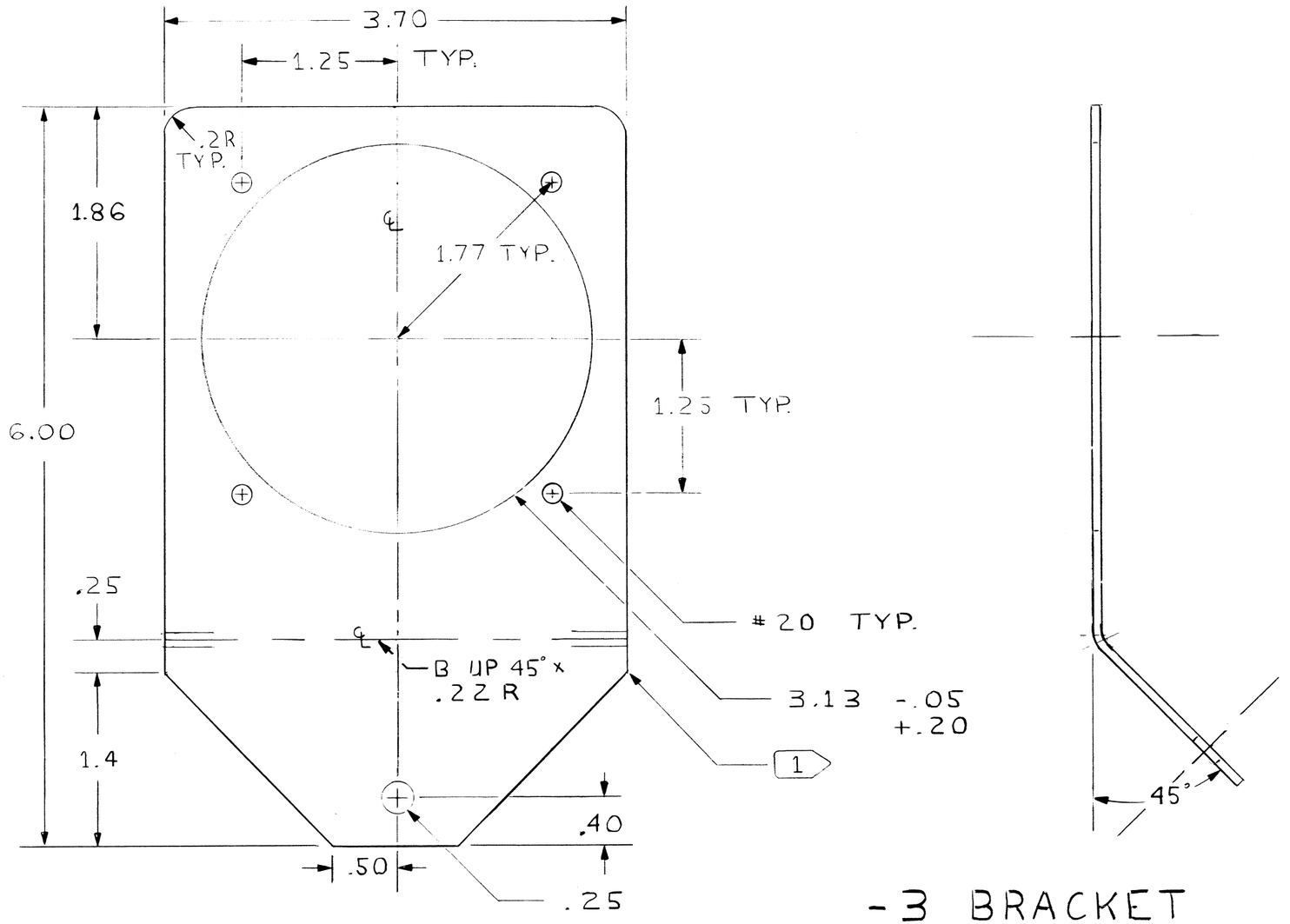
WINDSCREEN DETAIL

B1B 710 REV A

DRN BB. 2/7/83 | CHK Mac | APPR | APPR Mac McClard | SCALE: 1/4 | USED ON DWG. | SHEET 2 OF 2

B1B 710

REV	DESCRIPTION	DATE	APPR



1

BREAK SHARP EDGES
TYP. 4 PLC'S

-3 BRACKET

PART NO.	USED ON	SERIAL NO.	SECT.
APPLICATION			
B1-RD ULTRALIGHT S/N 001 + ON			

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
1	-3	BRACKET	6061-T6 SHT .063		F209

TOL: .X ±.1, ±.03, .XXX ±.005, ANGLES ±2°

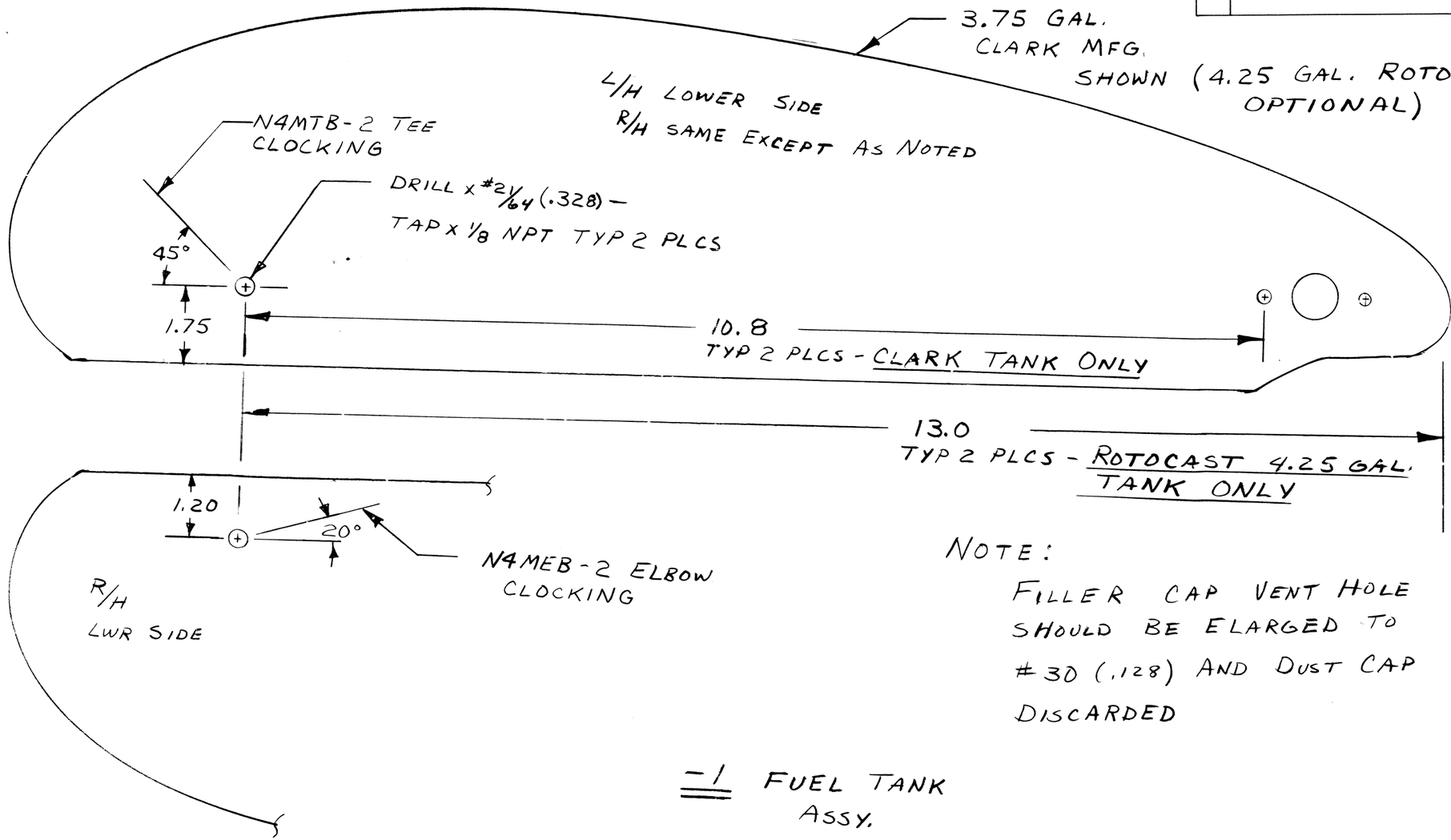
ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

ALT MOUNT BRACKET — B1B 720 — REV 1

DRN B. HALL | CHK B.B. | APPR | APPR | SCALE NONE | USED ON DWG. B1-900-7 | SHEET 1 OF 1

B1B720

REV	DESCRIPTION	DATE	APPR
A	ADD COVERAGE ROTOCAST TANK	9/25/13	



NOTE:

FILLER CAP VENT HOLE SHOULD BE ELARGED TO #30 (.128) AND DUST CAP DISCARDED

-1 FUEL TANK ASSY.

PART NO.	USED ON	SERIAL NO.	SECT.
APPLICATION			

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
1	81-810-1	Fuel Tank Assy	Clark Mfg. P/N 1349 (Opt. Rotocast ORT425)		

TOL: .X ±.1, ±.03, .XXX ±.005, ANGLES ±2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

FUEL TANK FITTING DETAIL

B1B810 REV A

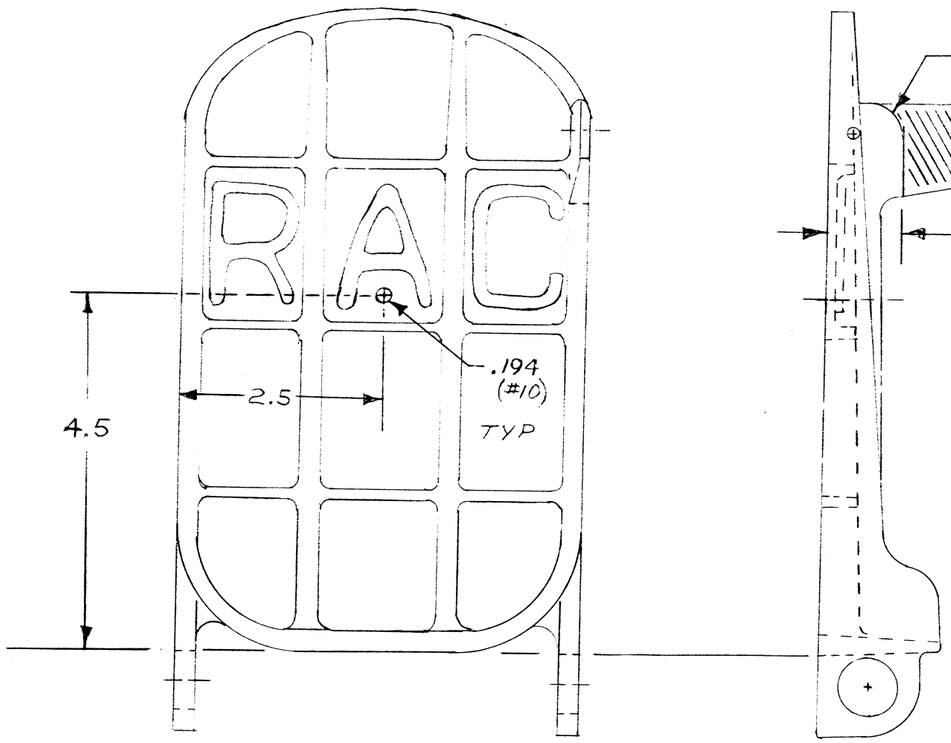
DRN	CHK	APPR	APPR	SCALE	USED ON DWG.	SHEET
Mac	Mac	6/9/82	Mac	None	81-800	1 OF 1

B1B810

NOTES: 1 = REMOVE STANDOFF ON SECONDARY PEDALS ONLY—

REV	DESCRIPTION	DATE	APPR

ALL DIMENSIONS NOT SHOWN COMMON TO B1-125-3/-4



B1-960 – 1, L.H. SHOWN
- 2, R.H. OPP.
- 3, L.H. – SECONDARY PEDAL – (SHOWN)
- 4 R.H. OPP

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
1/1	-3/-4	RUDDER PEDAL - SECONDARY LH/RH	B1-125-3X/-4X RAW CASTING		
1/1	B1-960-1/-2	RUDDER PEDAL - PRIMARY LH/RH	B1-125-3X/-4X RAW CASTING		

TOL: .X ±.1, .XX ±.03, .XXX ±.05, ANGLES ±2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

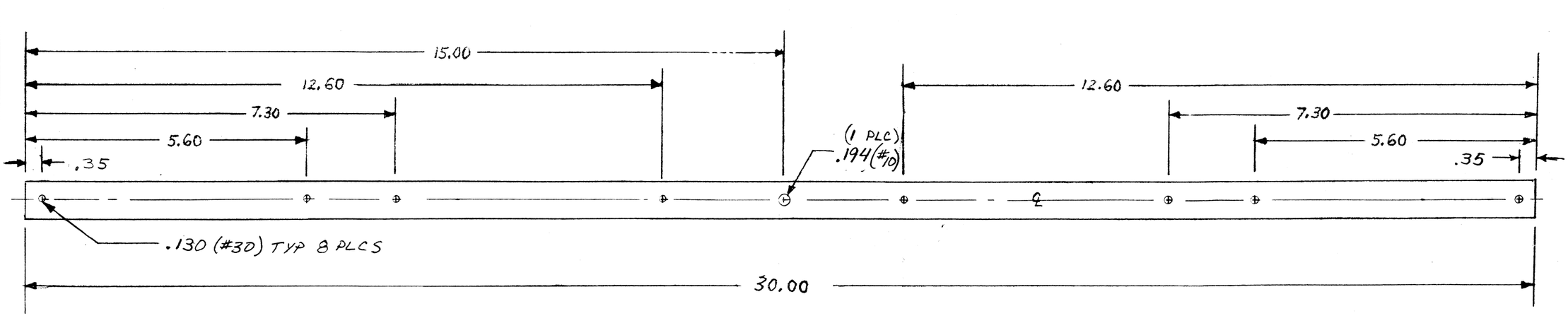
RUDDER PEDALS

B1 B960 REV 1R

DRN B.B. 11-3-83 | CHK | APPR | APPR | SCALE: NONE | USED ON DWG. | SHEET 3 OF 3

B1 B960

REV	DESCRIPTION	DATE	APPR

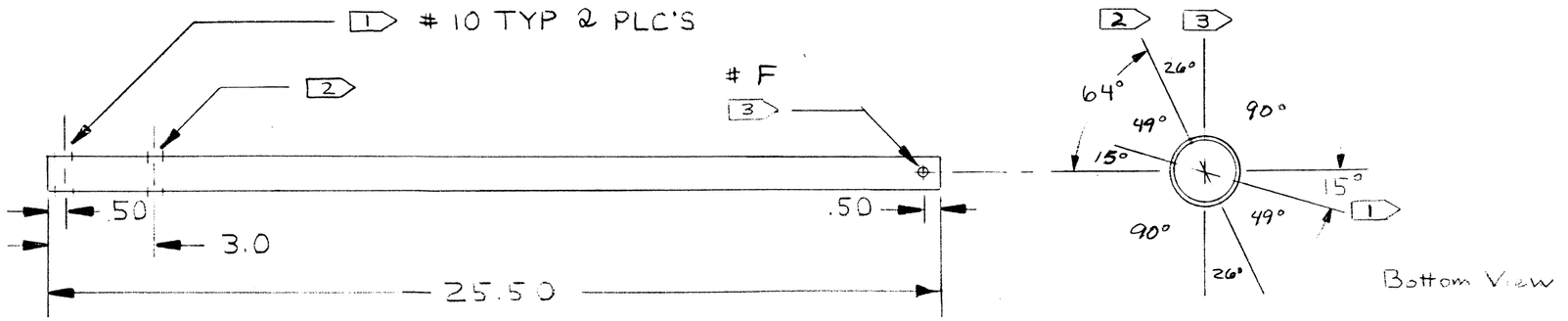


-9 Shaft

1	-9	Rudder Pedal Shaft	.750 D X .083 W X 30.0 Tube 4130N		F401
QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
TOL: .X ±.1, .XX ±.03, .XXX ±.05 ANGLES ±2°		ROBERTSON AIRCRAFT CORPORATION 839 W. PERIMETER RD., RENTON, WASH. 98055 (206) 228-5000	RUDDER PEDAL SHAFT	B1 B 960	REV IR
DRN	CHK B.B. 11-3-83	APPR APPR	SCALE: 1/2	USED ON DWG.	SHEET 2 OF 3

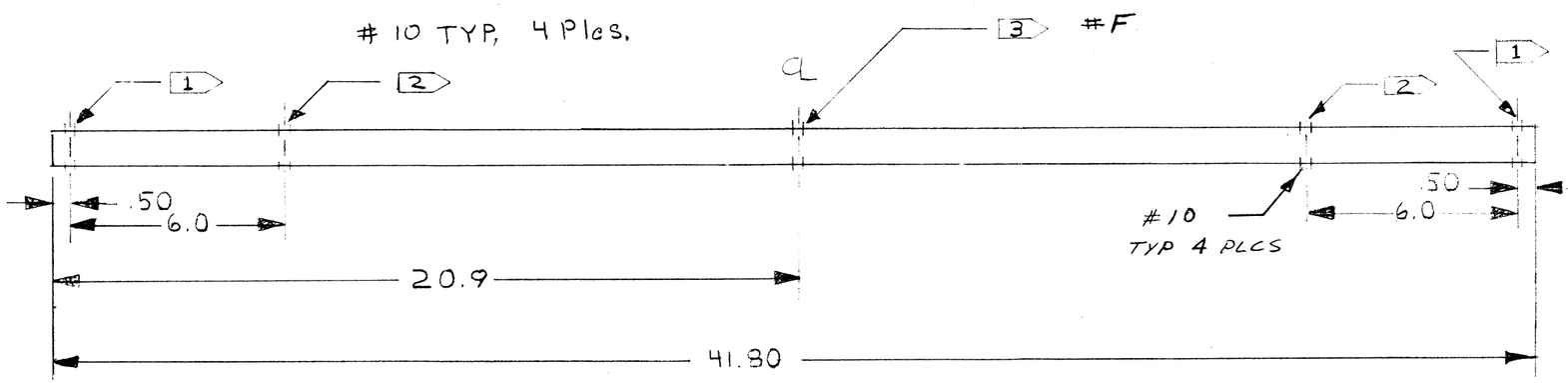
B1 B 960

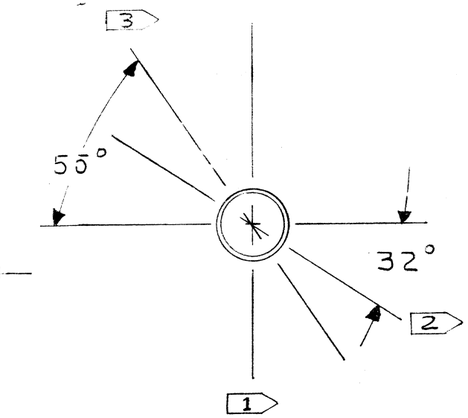
REV	DESCRIPTION	DATE	APPR



Bottom View

-11 Aft Seat Diagonal (L/H Shown)
-12 R.H. (OPP.)





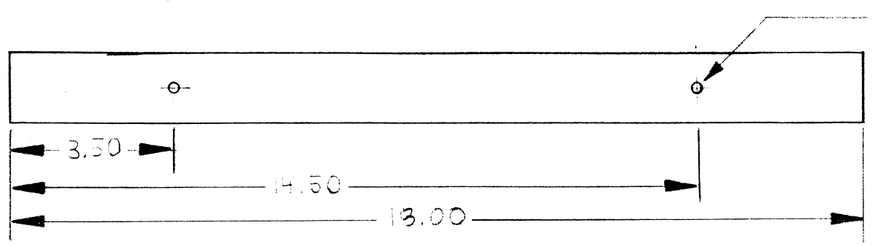
L/H VIEW

-5 Seat Forward Support

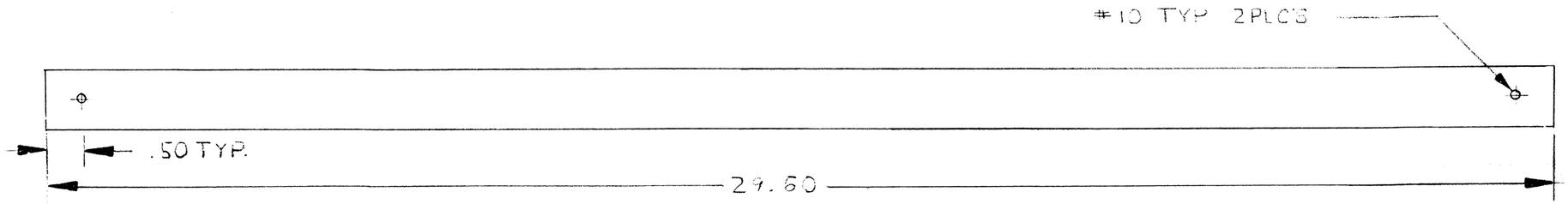
1/1	-11, (-12 opp.)	Aft Seat Diag (L/H Shown)	1.00 x .049 W 6061-T6 Tube		F211
1	B1-961-5	Seat Foward Support	1.00 x .065 W 6061-T6 Tube		F211
QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
TOL: .X ±.1, .XX ±.03, .XXX ±.05 ANGLES ±2°	ROBERTSON AIRCRAFT CORPORATION 839 W. PERIMETER RD., RENTON, WASH. 98055 (206) 228-5000			B1 B 961	REV IR
DRN BH	CHK B.B. 11-4-83	APPR	APPR	SCALE: 1/4	USED ON DWG. —	SHEET 5 OF 5	

B1 B 961

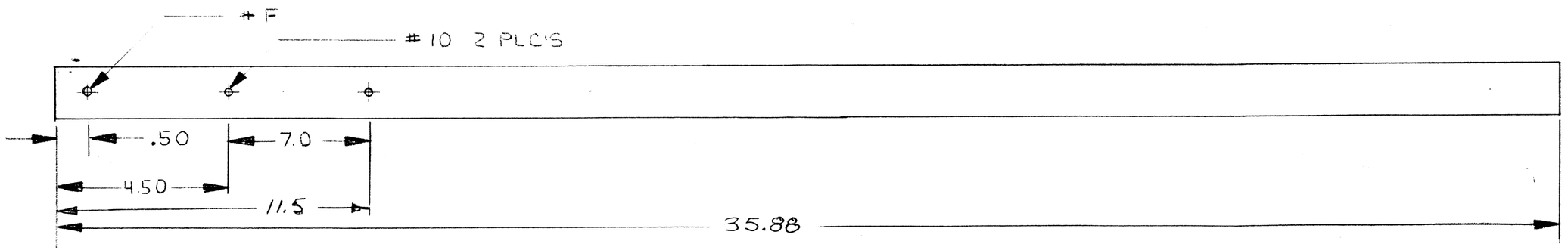
REV	DESCRIPTION	DATE	APPR
A	-21 WAS 42.00 NOW 35.88	2/88	BB



-3 Seat Bottom Bruce



-9 INTERCOSTAL



-21 Down Tube Sleeve

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
2	-21	Down Tube Sleeve	1.125 X .058 W 6061-T6 Tube		F211
1	-9	Upr Cockpit BRACE	1.00 X .049 W 6061-T6 Tube		F211
1	-3	Seat Bottom Brace	1.00 X .083 W 6061-T6 Tube		F211

TOL: .X ±.1, .XX ±.03, .XXX ±.05 ANGLES ±2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

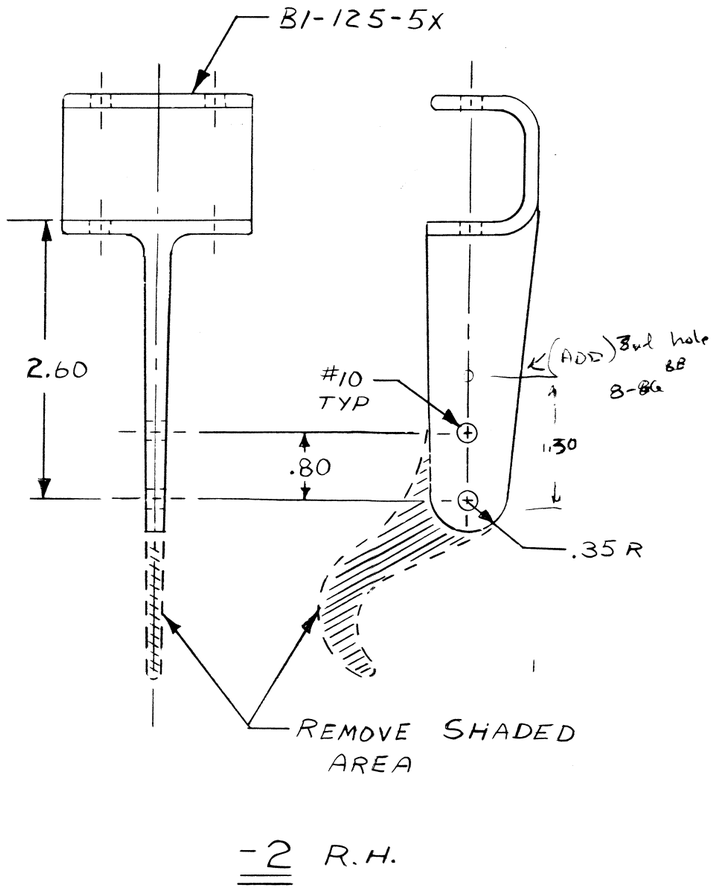
COCKPIT PARTS

B1B961 REV A

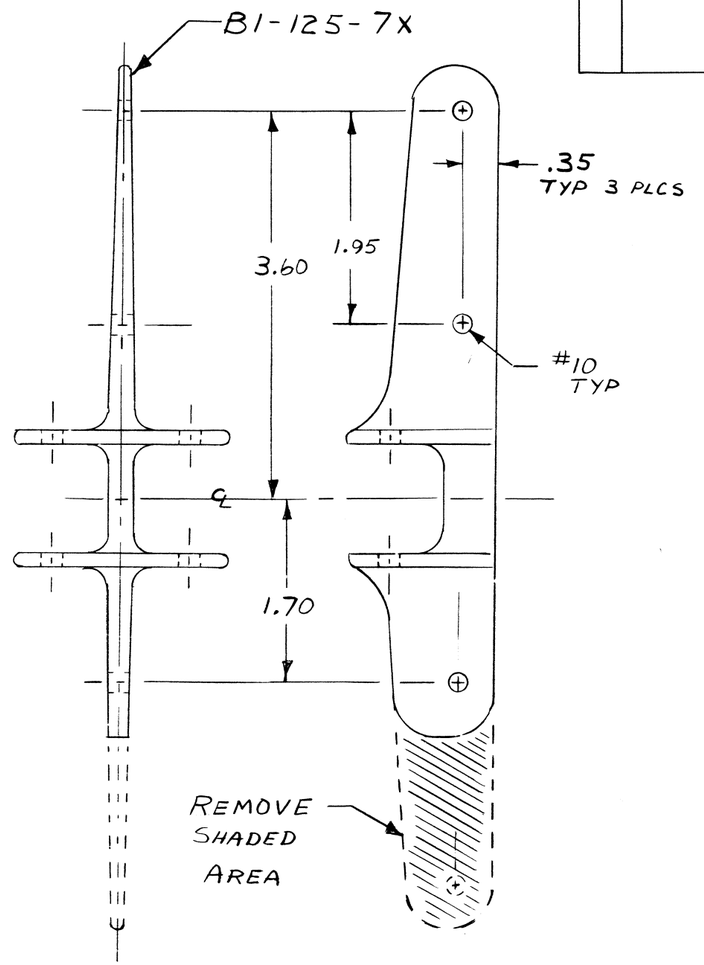
DRN	CHK	APPR	APPR	SCALE	USED ON DWG.	SHEET
D H	B. B.			NONE	—	4 OF 5

B1B961

REV	DESCRIPTION	DATE	APPR



-2 R.H.



-1 L.H.

ALL DIMENSIONS NOT SHOWN
ARE COMMON TO B1-125-5/-7

PART NO.	USED ON	SERIAL NO.	SECT.
APPLICATION			

1	-2	" " R.H.	" " -7 " "		"
1	B1-962-1	THROTTLE LEVER L.H.	B1-125-7 RAW CASTING		F-211
QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH

TOL: .X ±.1, ±.03, .XXX ±.005, ANGLES ±2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

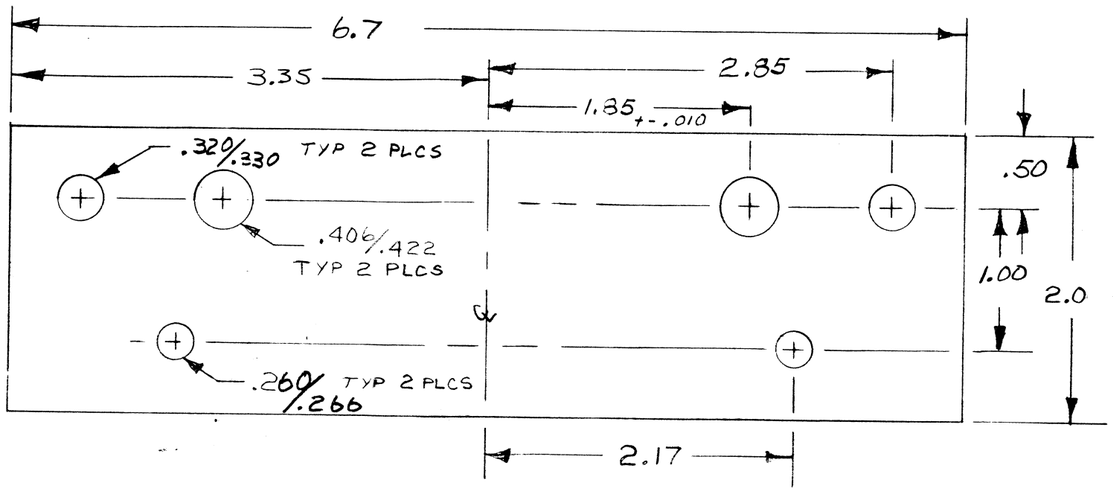
THROTTLE LEVERS

B1B962 REV 1R

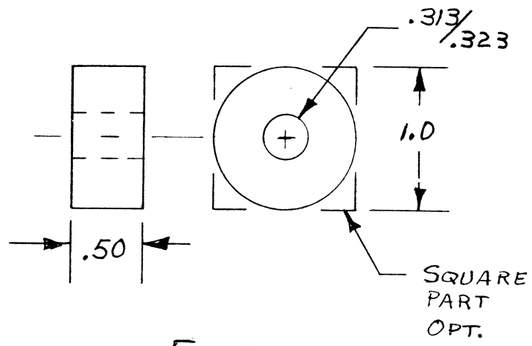
DRN	CHK	APPR	APPR	SCALE	USED ON DWG.	SHEET
B. BASHFORTH				NONE		1 OF 5

B1B962

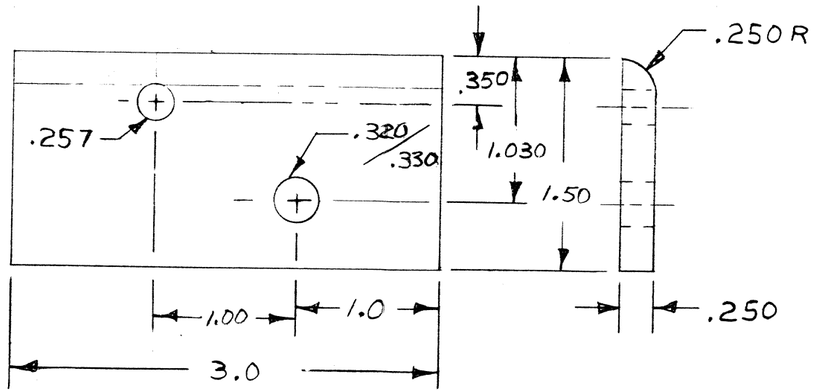
REV	DESCRIPTION	DATE	APPR



-15 ADAPTER PLATE - ROTAX 503



-5 SPACER



-13 RADIUS FILLER - L.H.

-14 OPP. R.H.

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
2EA	-14	RADIUS FILLER R.H.	.25 x 1.50 x 3.0 6061-T6 PLATE		F-205
2EA	-13	RADIUS FILLER - L.H.	.25X 1.50 X 3.0 6061-T6 PLATE		F-205
8EA	-5	ENGINE SPACER	1.00D X .50 6061-T6 ROD		F-205
2EA	BI-964-1	ENGINE ADAPTER PLATE (H.D.)	.50 x 2.00 x 6.70 6061-T6 PLATE		F-205

TOL: .X ±.1, .XX ±.03, .XXX ±.005, ANGLES ±2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

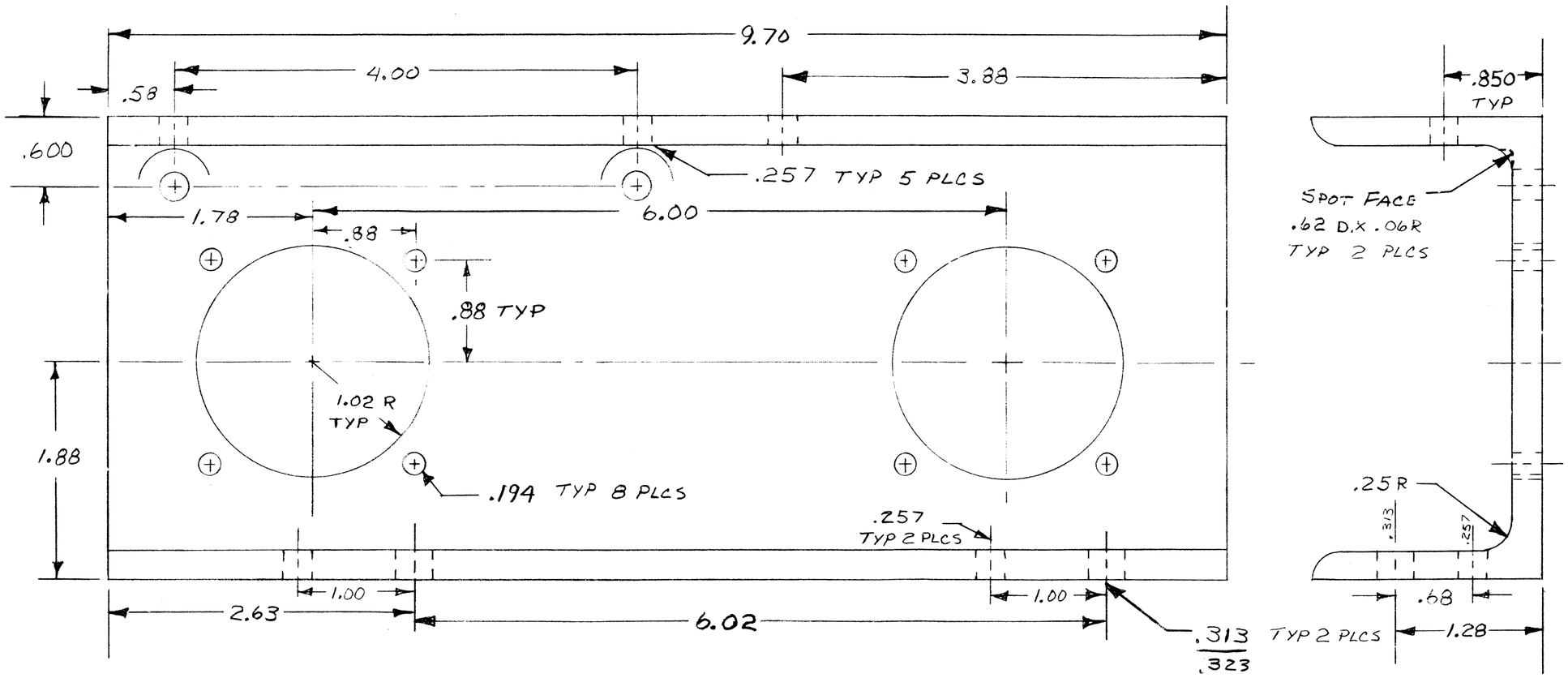
H.D. ROTAX 503 MOUNT PARTS

BI B 964 REV A

DRN B.B 11-16-83 | CHK MBC | APPR MBC 12/22/83 | APPR | SCALE: FULL | USED ON DWG. | SHEET 3 OF 5

BI B 964

REV	DESCRIPTION	DATE	APPR

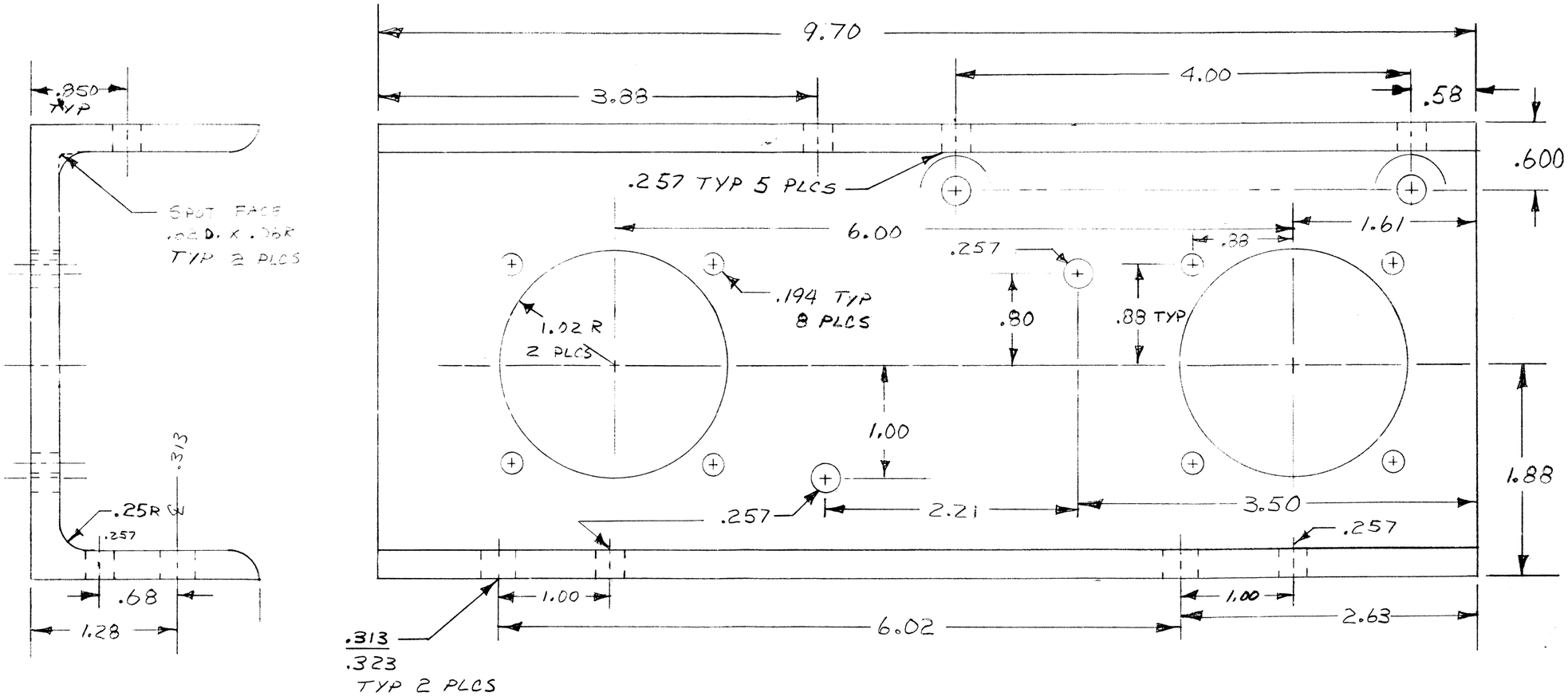


-3 CHANNEL - MOTOR MOUNT

1	81-964-3	MOTOR MOUNT CHANNEL - L.H.	4.00 X 2.00 X .25 6061-T6 CHANNEL TMS 60-3304		F-205
QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
TOL: .X ±.1, .XX ±.03, .XXX ±.005 ANGLES ±2°	ROBERTSON AIRCRAFT CORPORATION 839 W. PERIMETER RD., RENTON, WASH. 98055 (206) 228-5000		503 ROTAX MOTOR MOUNT		B1 B 964
DRN B.B 11-9-83	CHK Mac	APPR Mac Mackey 11/9/83 APPR	SCALE: FULL	USED ON DWG.	SHEET 2 OF 5

B1 B 964 REV A

REV	DESCRIPTION	DATE	APPR

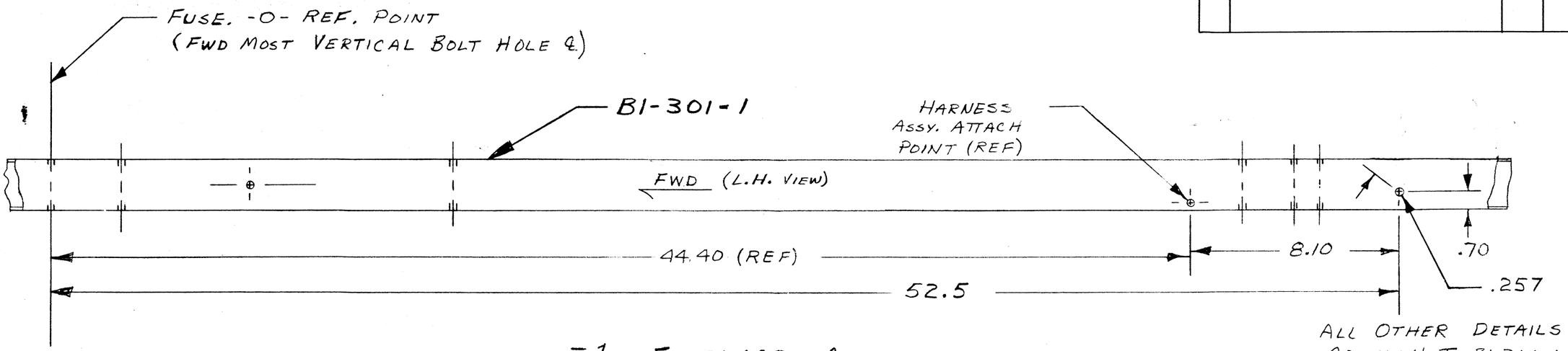


-4 CHANNEL - MOTOR MOUNTS

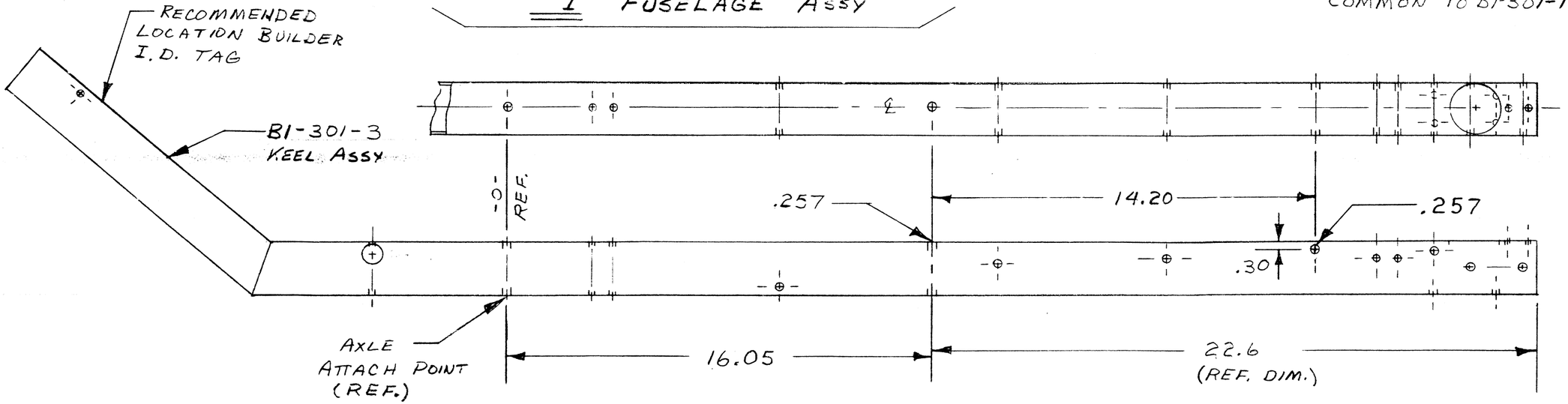
1	81-964-4	MOTOR MOUNT CHANNEL - R.H.	4.00X 2.00X.25 6061-T6 CHANNEL TMS 60-3304		F-205
QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
TOL: .X ±.1, .XX ±.03, .XXX ±.05 ANGLES ±2°		ROBERTSON AIRCRAFT CORPORATION 839 W. PERIMETER RD., RENTON, WASH. 98055 (206) 228-5000	503 ROTAX MOTOR MOUNT	81 B 964	REV A
DRN BB, 11-10-83	CHK Mac	APPR Mac McFarland 11/10/83 APPR	SCALE: FULL	USED ON DWG.	SHEET 1 OF 5

81 B 964

REV	DESCRIPTION	DATE	APPR



-1 FUSELAGE ASSY

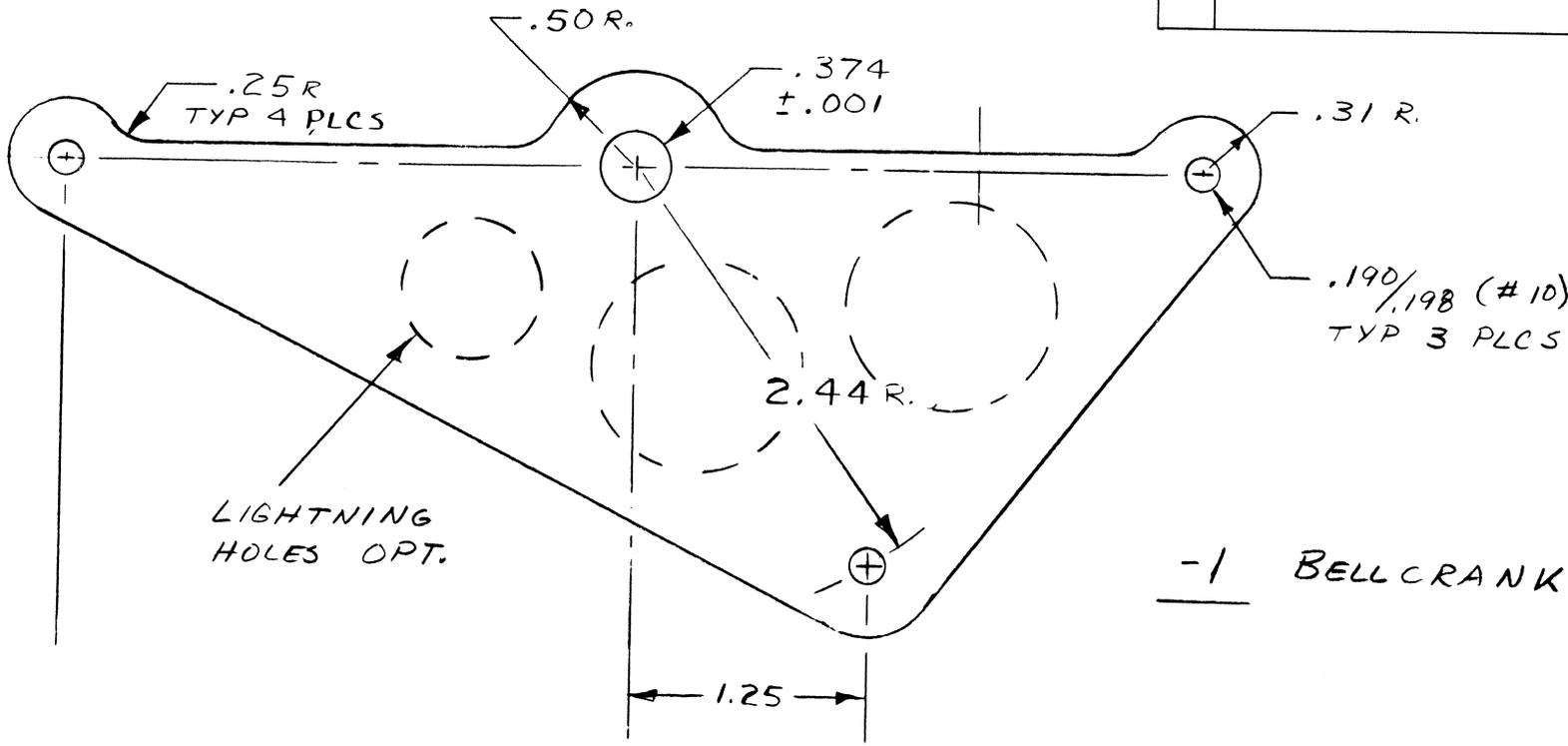


-3 KEEL ASSY

1	-3	KEEL (LOWER) ASSY	B1-301-3		F-211
1	B1-965-1	FUSELAGE ASSY	B1-301-11		F-211
QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
TOL: .X ±.1, .XX ±.03, .XXX ±.005 ANGLES ±2°	ROBERTSON AIRCRAFT CORPORATION SNOHOMISH COUNTY AIRPORT EVERETT, WASHINGTON 98204 NORTH COMPLEX BUILDING C-72 206-355-8700		FUSELAGE & KEEL	B1B965	REV 1R
DRN B.B. 11/11/83	CHK	APPR B.B.	APPR	SCALE: 1/4	USED ON DWG.	SHEET 1 OF 1	

B1 B965

REV	DESCRIPTION	DATE	APPR



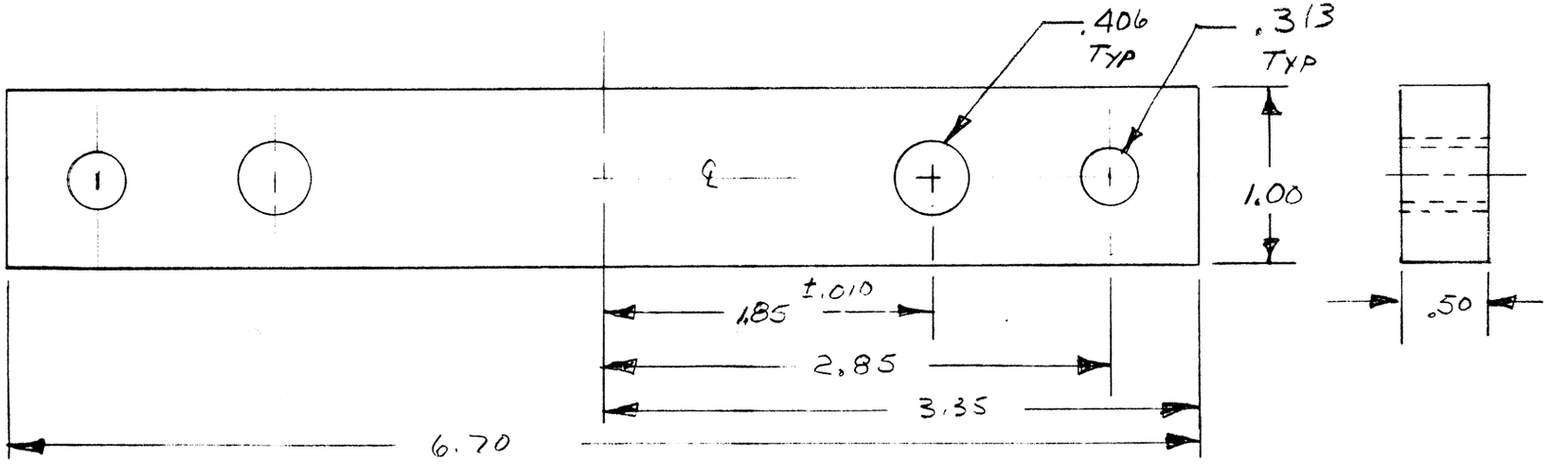
-1 BELLCRANK

NOTE: AFTER FINISHING, PRESS IN NAS 77A4 BUSHING

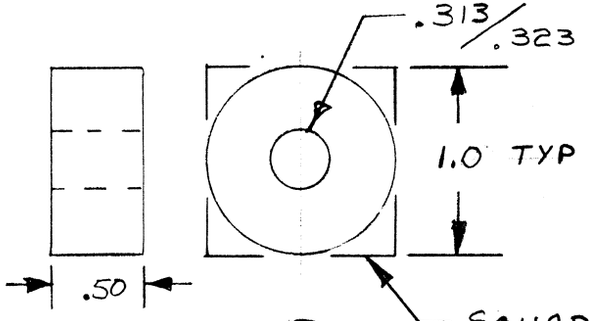
2	B1-612-1	AILERON BELLCRANK	.100 6061-T6 OR 2024-T3		F207
QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
.X ±.1, ±.03, .XXX ±.005, ANGLES ±2°	ROBERTSON AIRCRAFT CORPORATION 839 W. PERIMETER RD., RENTON, WASH. 98055 (206) 228-5000		AILERON BELLCRANK	B1A612	REV
DRN B.B.	CHK	APPR	APPR	SCALE: 1:1	USED ON DWG.	SHEET 1 OF 2

B1A612

REV	DESCRIPTION	DATE	APPR



-1



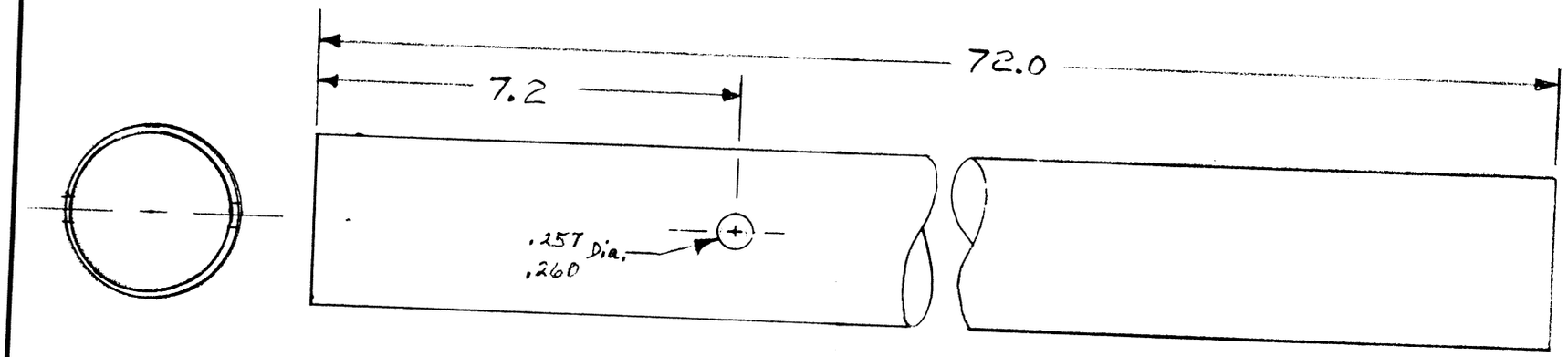
-5

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
4	-5	ENGINE SPACER	1.0x.50 6061-T6		F205
2	-1	ENGINE ADAPTER	1.00x.50 -6061-T6 PLATE		F205

TOL: .X ±.1, .XX ±.03, .XXX ±.05 ANGLES ±2°	ROBERTSON AIRCRAFT CORPORATION 839 W. PERIMETER RD., RENTON, WASH. 98055 (206) 228-5000	Engine Mount Spacer	B1 A 964	REV 1R
DRN B.B.	CHK Mac	APPR Mac McClard 12/22/83 APPR	SCALE: FULL USED ON DWG.	SHEET 5 OF 5

B1 A 964

REV	DESCRIPTION	DATE	APPR

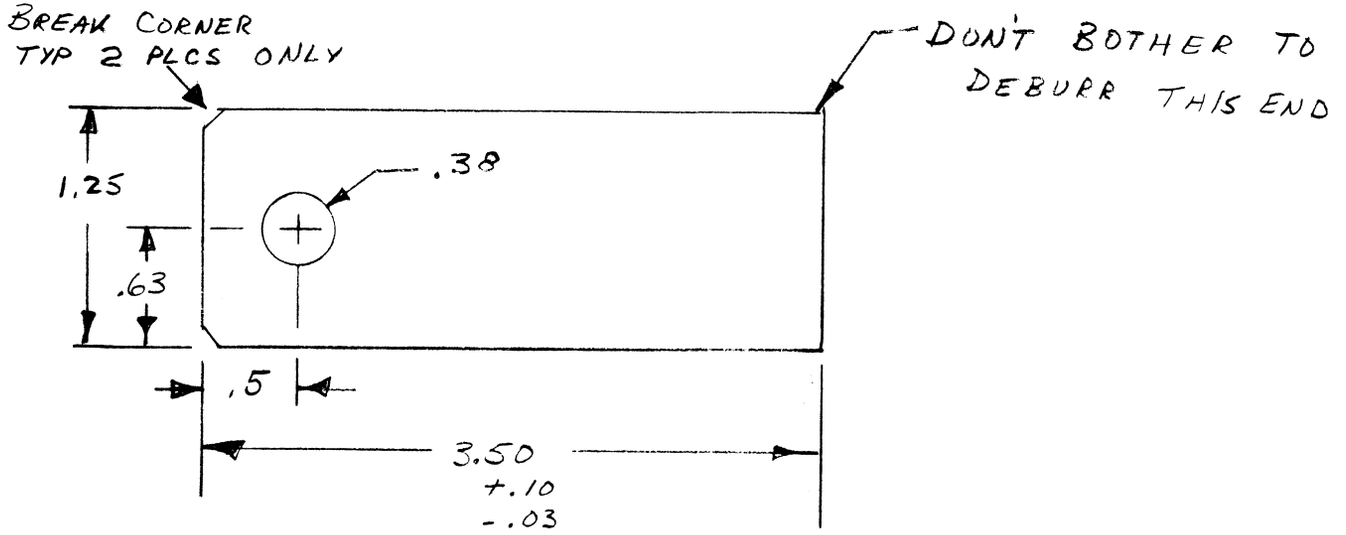


-9 SLEEVE

2	BI-963-9	SLEEVE - T.E. OVER SLEEVE	1.250 X .058W X 72.00 6061-T6 Tube		
QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
TOL: .X ±.1, .XX ±.03, .XXX ±.05 ANGLES ±2°		ROBERTSON AIRCRAFT CORPORATION 839 W. PERIMETER RD., RENTON, WASH. 98055 (206) 228-5000			F211
DRN mgc	CHK BB 11/18/83	APPR mgc 12/15/83 APPR	SCALE: None	USED ON DWG. BI-950	SHEET 2 OF 2
			TUBE - T.E. OVER SLEEVE	BI A 963	REV HR

BI A 963

REV	DESCRIPTION	DATE	APPR



QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
2	BI-964-7	MUFFLER MOUNT STRAP - ROTAX 503	1.25 x 3.50 x .071 4130 N STEEL		F000

TOL: .X ±.1, .XX ±.03, .XXX ±.05 ANGLES ±2°

ROBERTSON AIRCRAFT CORPORATION
839 W. PERIMETER RD., RENTON, WASH. 98055
(206) 228-5000

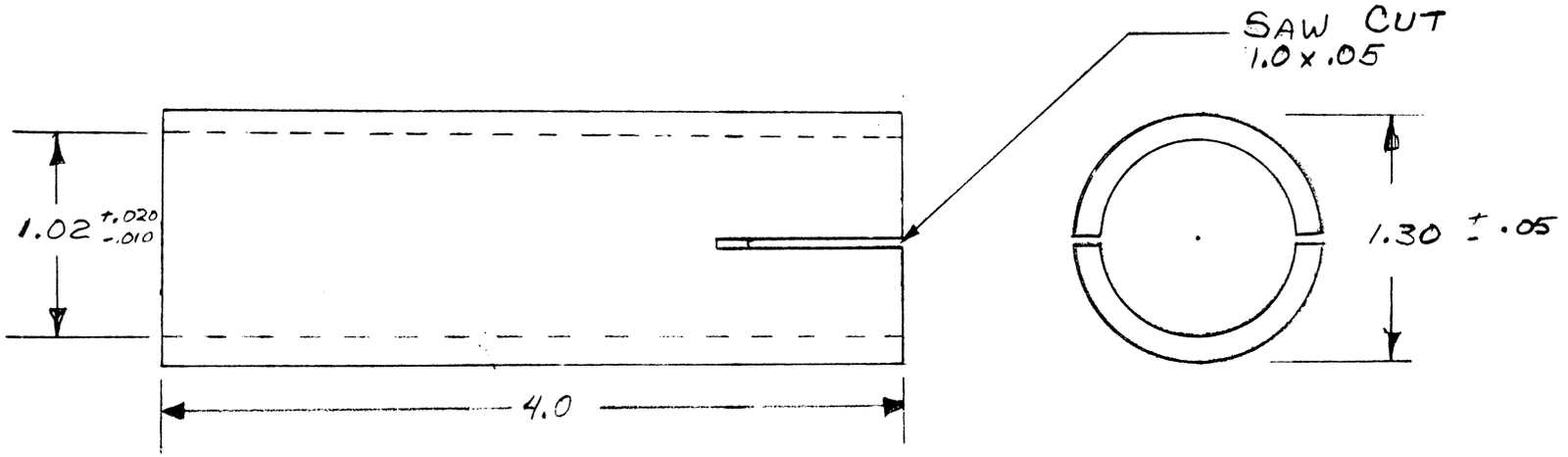
Details - Engine Instl.

BI A 964 REV ~~HR~~

DRN	CHK	APPR	APPR	SCALE: FULL	USED ON DWG.	SHEET 4 OF 5
BB						

BI A 964

REV	DESCRIPTION	DATE	APPR



-7 Bushing

QTY	PART NO.	NAME	MATERIAL	SPEC	FINISH
2	B1-962-7	Bushing	1 Inch PVC Rigid Conduit - Schedule 40		—

TOL: .X ±.1, .XX ±.03, .XXX ±.05, ANGLES ±2°

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(206) 228-5000

Bushing - Throttle Shaft

B1A962

REV TR

DRN	CHK	APPR	APPR	SCALE	USED ON DWG.	SHEET
Mac	BB 11-8-93			Full	B1-950	2 OF 5

B1A962