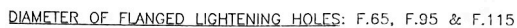
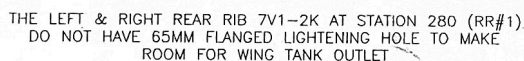


FLANGED LIGHTENING HOLE IN THE
SAME DIRECTION AS THE RIB FLANGE

X=	0	30	60	90	120	150	175	200	220
Y=	208	206.1	203	197.5	188.3	172	153	125	90

X=	0	100	200	300	400	500	600	700	806
Yu=	208	203	190	171	150	124.7	98	71.2	42.8
Yl=	0	0	0	0	2	6.7	15	25	37.3



- 2K Δ_0 WING REAR RIBS
t=.025" 6061-T6 (1L & 1R REQ'D)

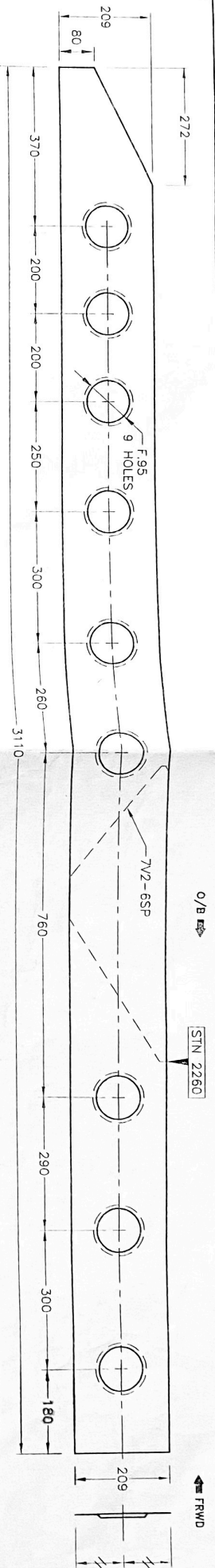


1/4" O/D POLY TUBE
P/N F487-4

1/4" ID CONNECTING TUBE

7V1-3A

- 3A  PITOT TUBE
WELDED ASSEMBLY (1 REQ'D)

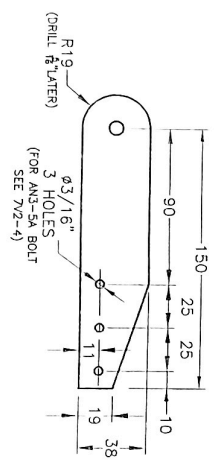
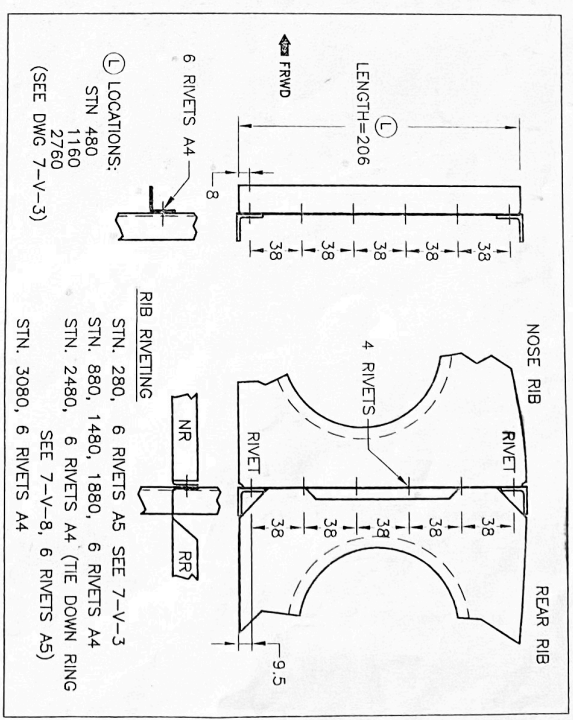
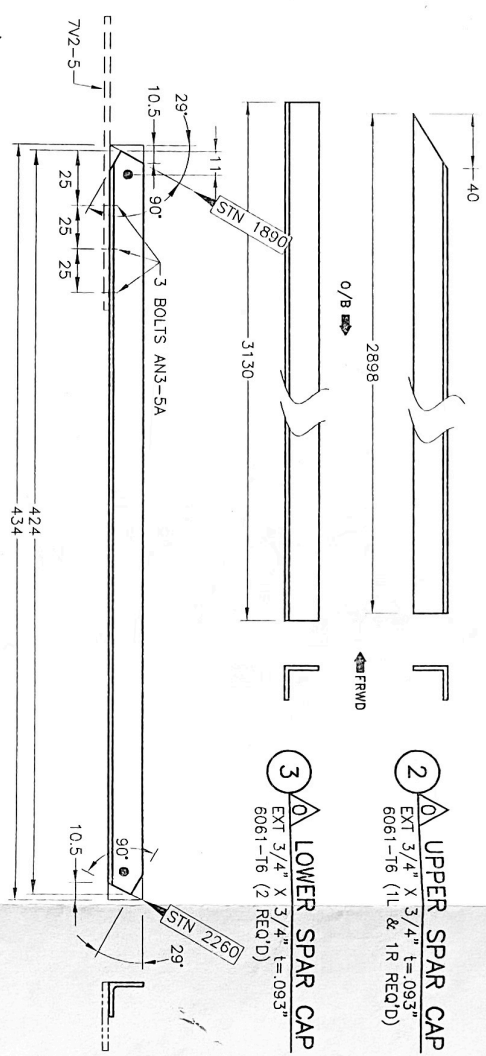


1 SPAR WEB
 $t=.025"$ 6061-T6 (1L & 1R REQ'D)

2 UPPER SPAR CAP
 $EXT\ 3/4" \times 3/4" \ t=.093"$
 6061-T6 (1L & 1R REQ'D)

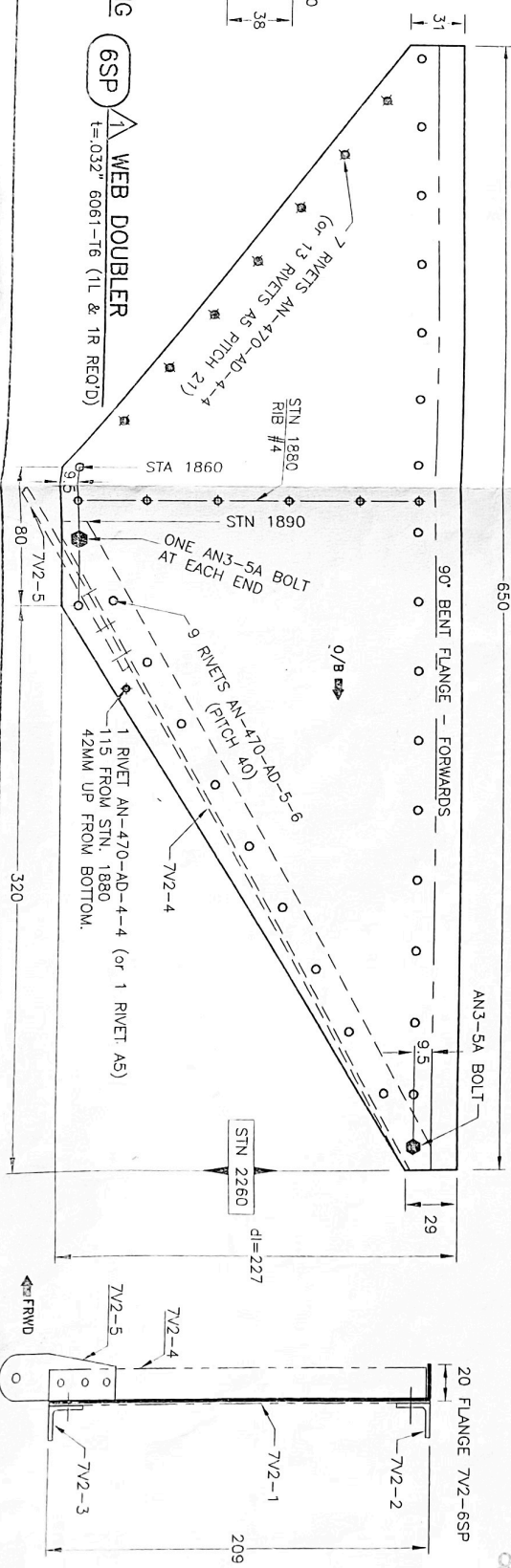
3 LOWER SPAR CAP
 $EXT\ 3/4" \times 3/4" \ t=.093"$
 6061-T6 (2 REQ'D)

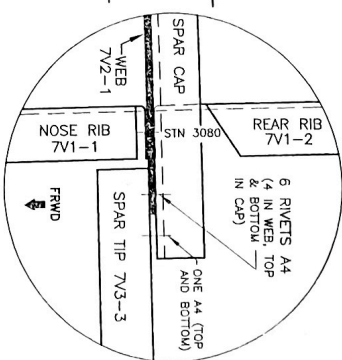
4 STRUT ANGLE
 $EXT\ 3/4" \times 3/4" \ t=.093"$ 6061-T6 (1L & 1R REQ'D)



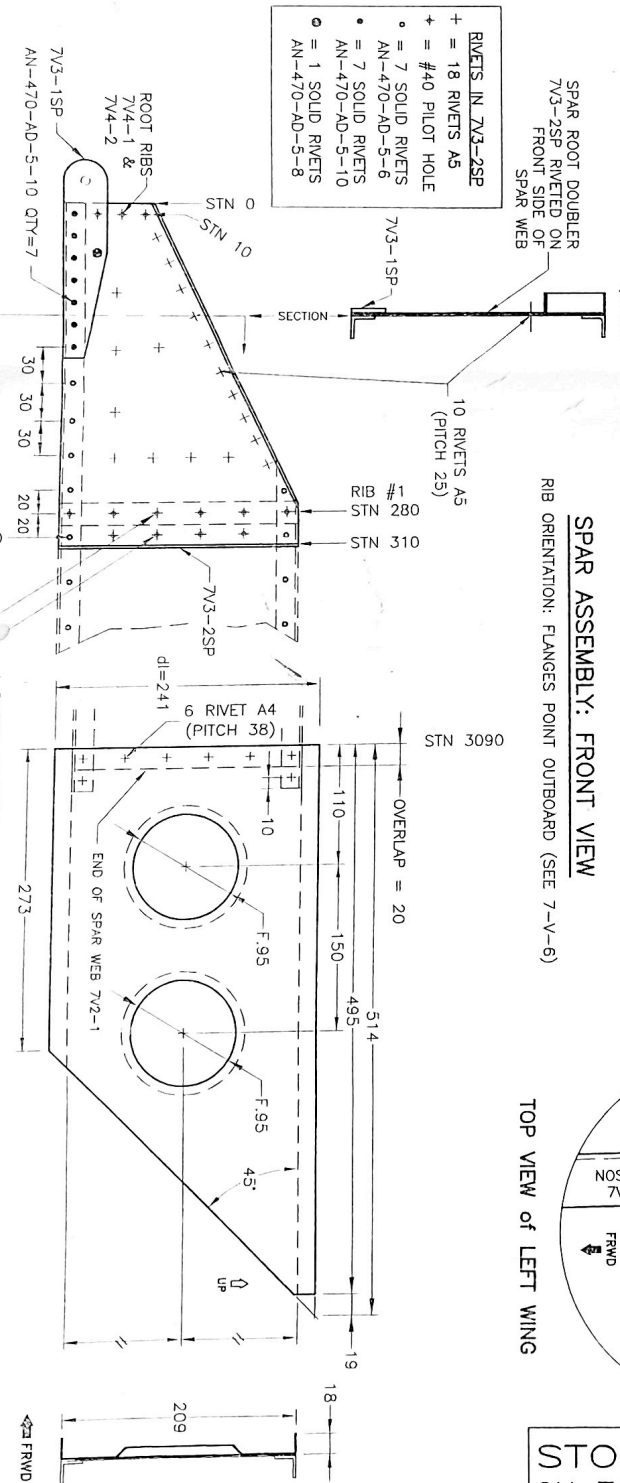
5 FRONT UPPER STRUT FITTING
 $t=.125"$ 6061-T6 (2 REQ'D)

6SP WEB DOUBLER
 $t=.032"$ 6061-T6 (1L & 1R REQ'D)





DATE: 04/2006



TOP VIEW of LEFT WING

3 SPAR TIP

SPAR TIP

4 TOOLING HOLES (CENTER HOLES IN MIDDLE OF RIB)
ADD 3 FLANGED LIGHTENING HOLES
AFTER RIB IS FORMED

CLECO BOTTOM HOLE. ROTATE SLAT
 SUPPORT 7V4-5 UNTIL 35MM LINE
 MARKED ON TEMPLATE IS VISIBLE
 THROUGH HOLE.

70
 35
 68
 90°
 6 RIVETS A4
 7V4-5
 BENT L
 NOSE RIB #1, #3, #4, AND #6
 7V1-1

POSITIONING TEMPLATE
EXTRUSION L=400

MAKES IT
CUBER
SEE PA 13

SLAT SUPPORTS:
POSITIONING TEMPLATE

ON REAR RIBS #1 AND #4
FLAPERON ARMS TV4-7
ARE BOLTED ON INBOARD
SIDE OF BRACKETS TV4-6

SECTION A-A
RIB #1 & #4

SECTION A-A
RIB #3 & #6

FLAPERON ARMS: POSITIONING TEMPLATE

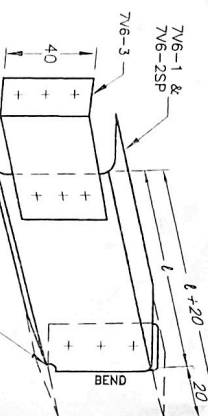
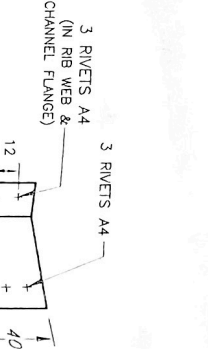
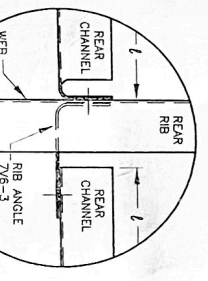
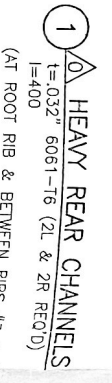
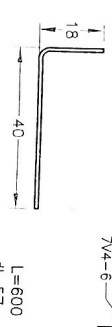
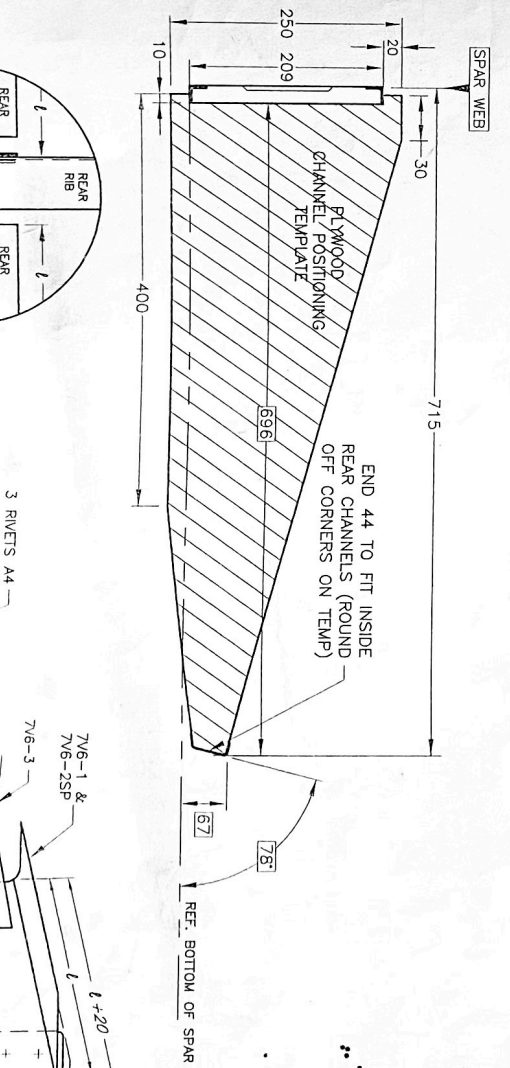
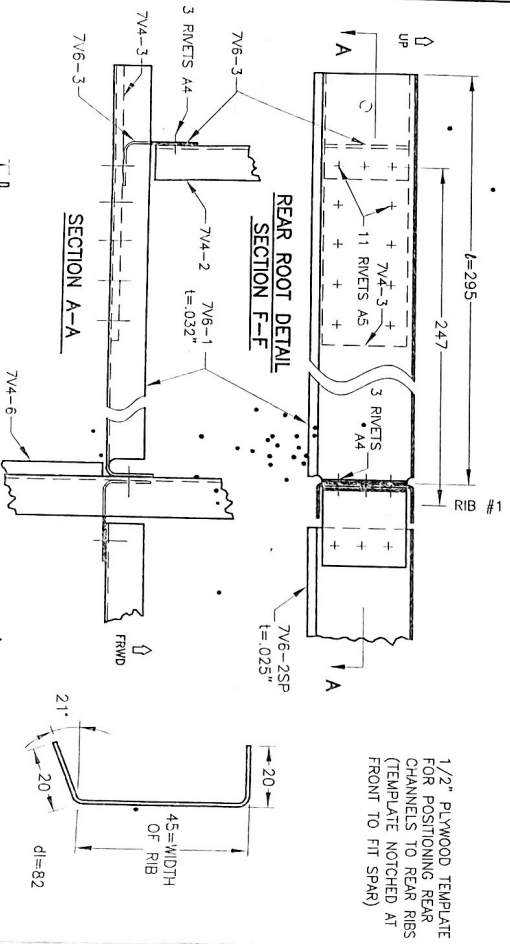
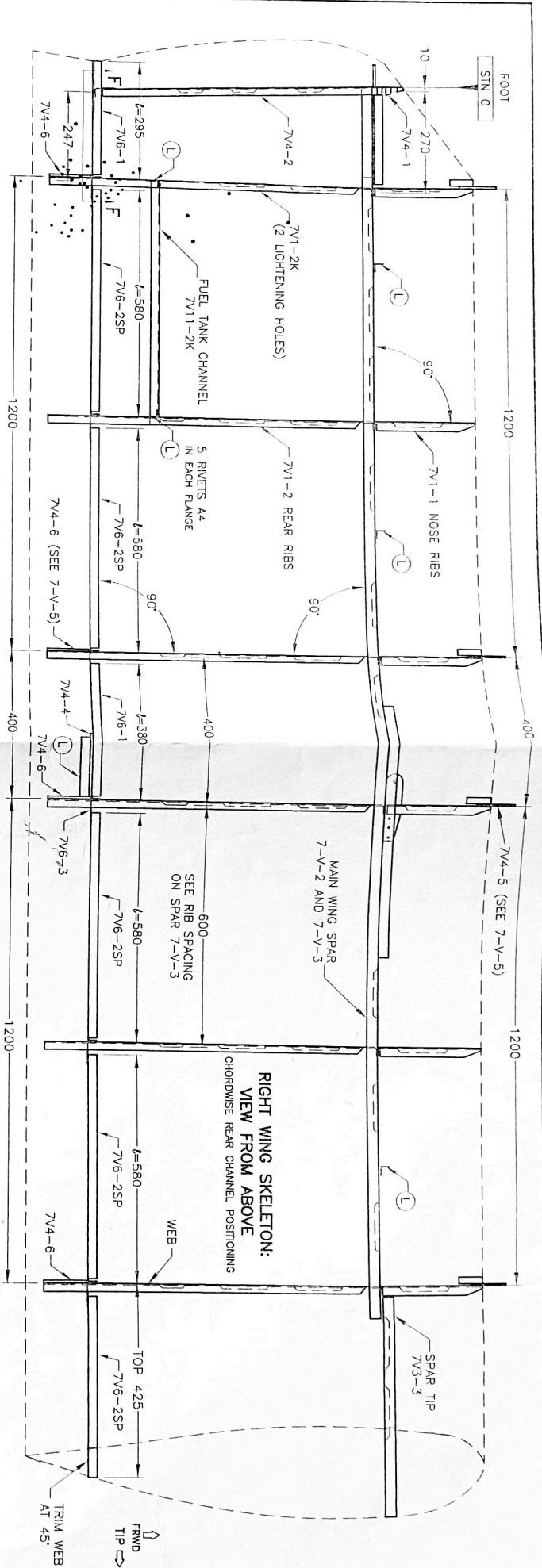
DRILL #20 CORNER RELIEF
HOLES IN RADIUS, CUT
SLOTS TO EDGE OF FLANGE

VIEW FROM REAR

SECTION B-B

REAR UPPER STRUT FITTING

(FRONT STRUT FITTING SEE DWG 7-V-2 AND 7-V-3,

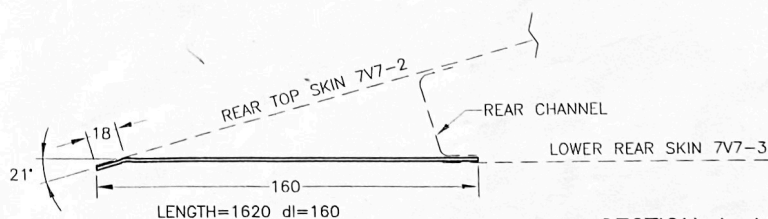
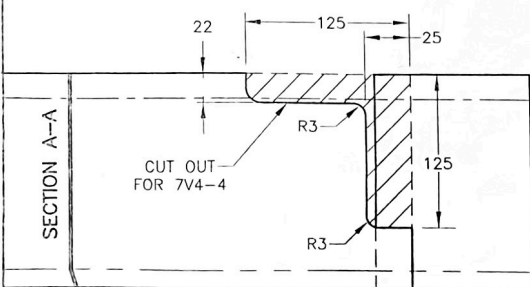
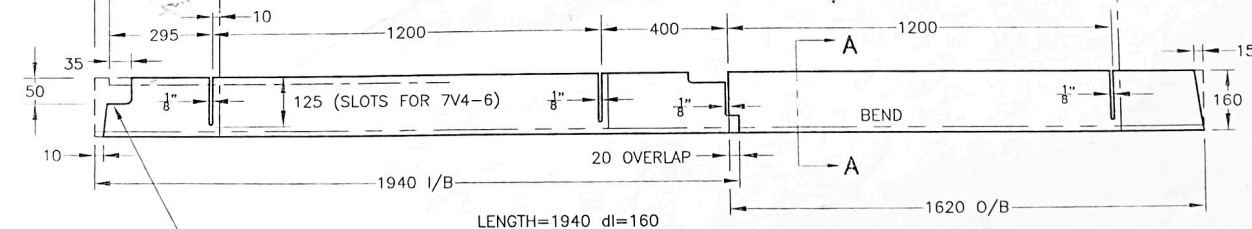
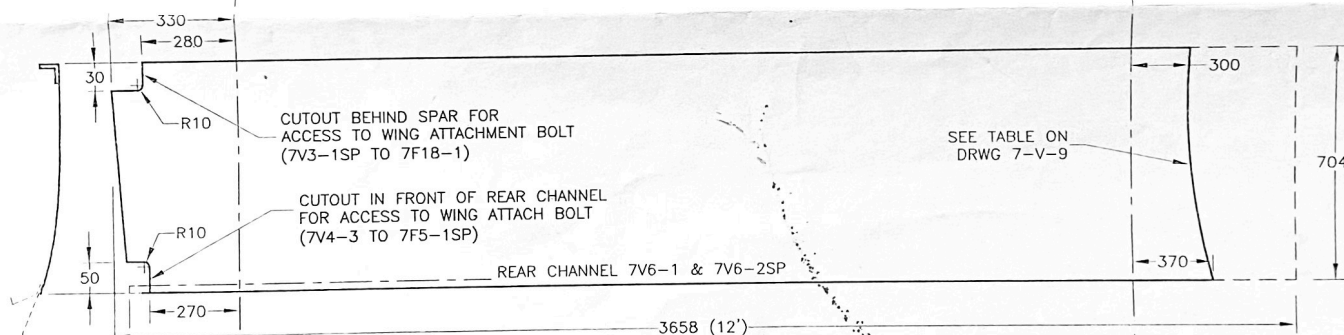
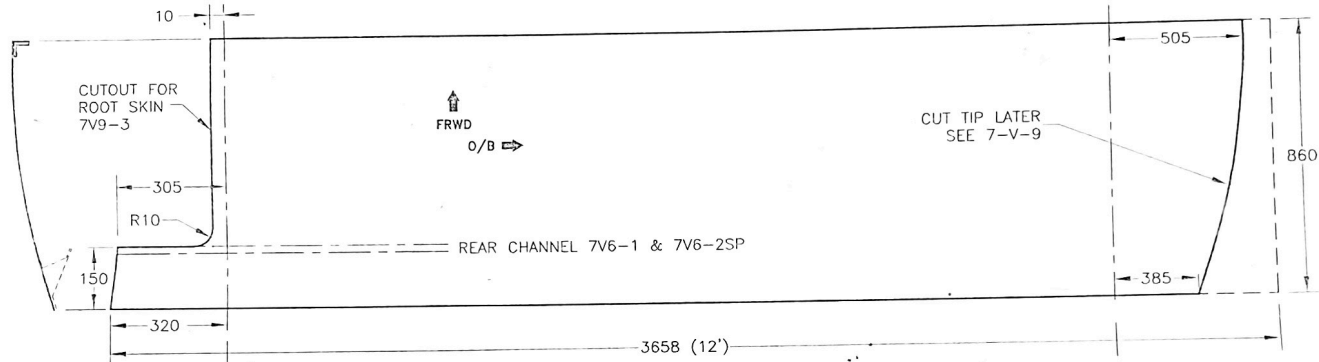
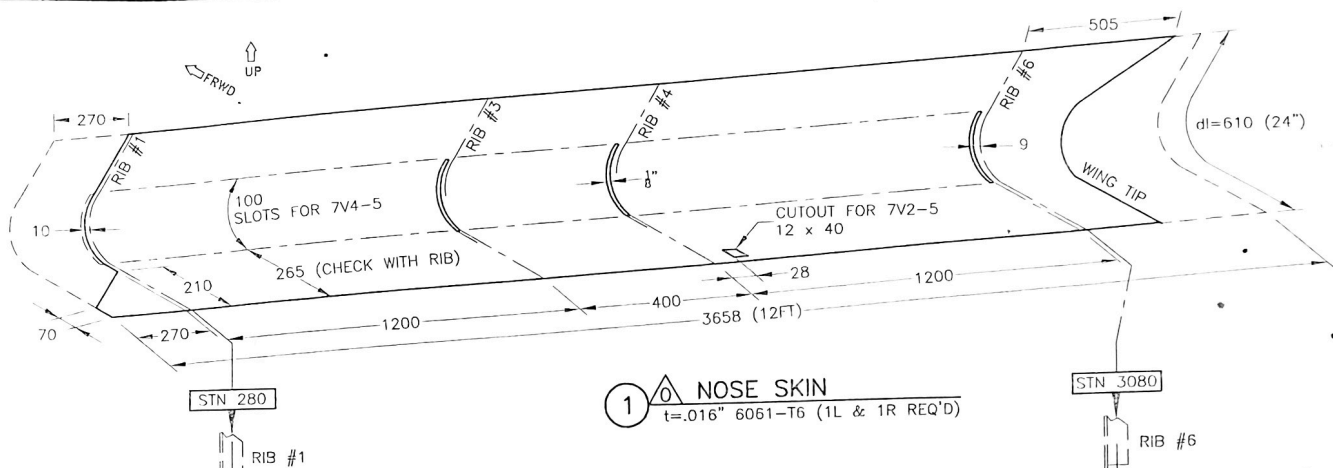


3 REAR RIB ANGLE
 $t=.025"$ 6061-T6 (1 REQ'D)
 7-A-2 & 7-H-4 (1 REQ'D)
 $L=600$
 $d=.57$

2SP STANDARD REAR CHANNELS
 $t=.032"$ 6061-T6 (2L & 2R REQ'D)
 $L=400$
 (AT ROOT RIB & BETWEEN RIBS #3 & #4)
 SAME AS 7V6-1 BUT $t=.025"$ (5L & 5R REQ'D)
 $L=600$

DETAIL TO SHOW FROM WHERE DISTANCES l ARE MEASURED

CUT OUT 40mm FROM 7V6-3 (14 REQ'D FOR 7V6-1, 7V6-2SP and 7V4-2)



I/B = 1940 (7V7-4)
20mm OVERLAP ON TRAILING EDGE
O/B=1620 7V7-5

STOL
CH 701

WING SKINS

COPYRIGHT © 2002 CHRIS HEINTZ WWW.ZENITHAIR.COM

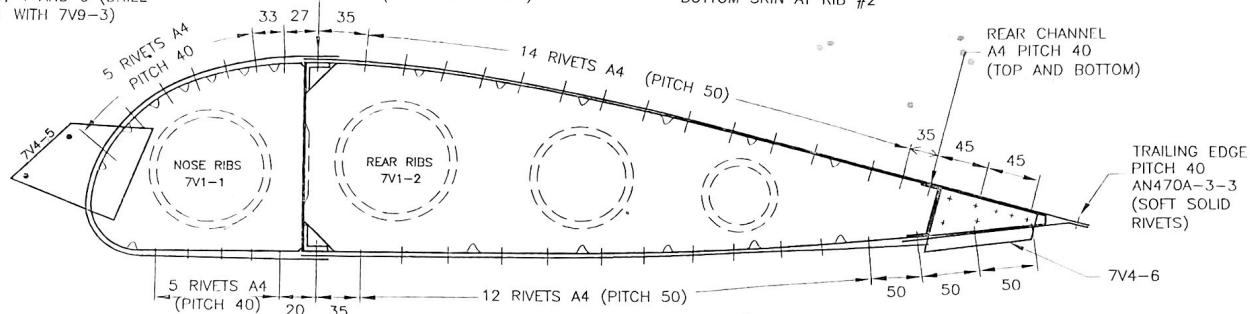
7-V-7

DATE: 04/2006

4 RIVETS A4 PITCH 35 IN BENT L ANGLE RIVETED TO SIDE OF SLAT SUPPORT ON RIB STATION 3, 4 AND 6 (DRILL STATION 1 WITH 7V9-3)

• SPAR CAPS A4 PITCH 40 (TOP AND BOTTOM)

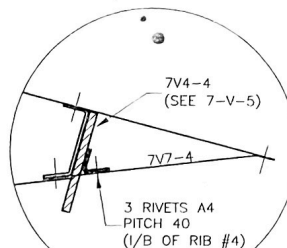
NOTE: SEE DWG 7-V-10 FOR JURY STRUT FITTINGS TO BOTTOM SKIN AT RIB #2



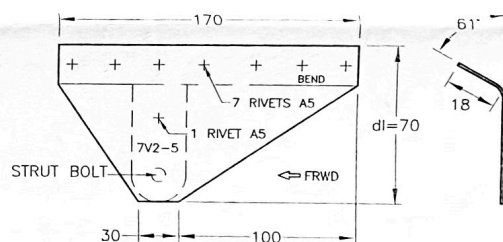
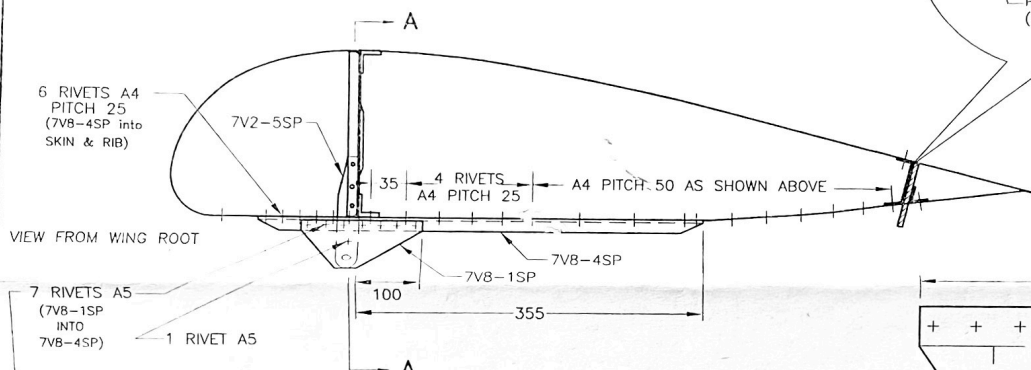
SPAR TIP A4 PITCH 40 O/B RIB #6 (TOP AND BOTTOM)
NOTE: TWO RIVET LINES 20MM APART (RIVETS SPACED ACROSS FROM EACH OTHER). SPAR TIP & NOSE SKIN, REAR SKIN & NOSE SKIN SEE 7-V-9

SPAR WEB DOUBLER 7V2-6SP
9 RIVETS A4 O/B RIB #4
7 RIVETS A4 I/B RIB #4
1 RIVET A4 IN LINE WITH RIB #4 (TOTAL: 17 RIVETS A4)

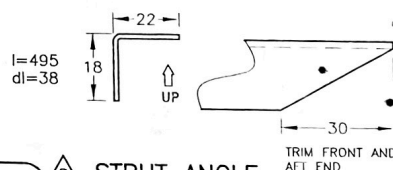
SKIN RIVETING



REAR UPPER STRUT FITTING RIVET (L) TO 7V7-4

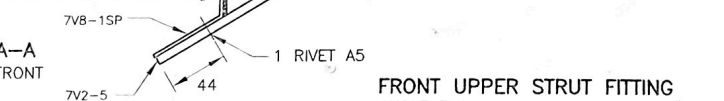


1SP Δ FRONT STRUT FITTING DOUBLER
t=.063" 6061-T6 (1L & 1R REQ'D)



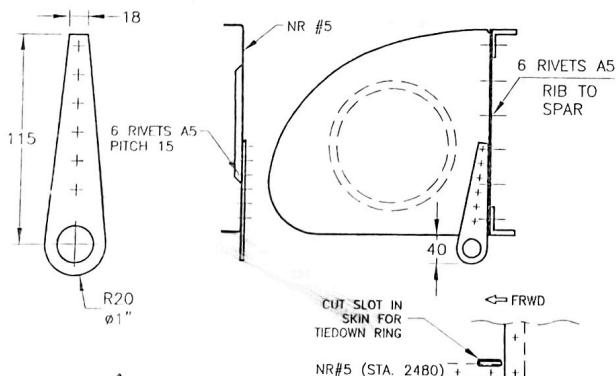
4SP Δ STRUT ANGLE
t=.032" 6061-T6 (2 REQ'D)

SECTION A-A VIEW FROM FRONT

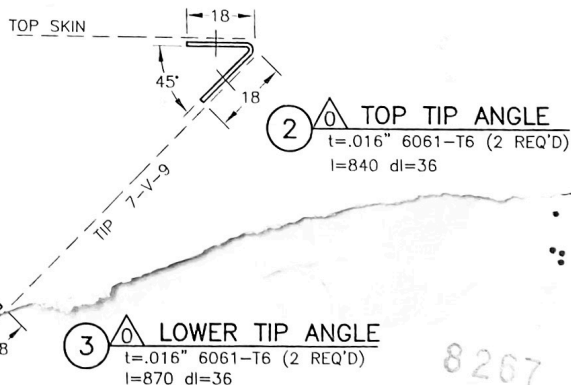


FRONT UPPER STRUT FITTING
ANGLE 7V8-4SP RIVETED TO RIB #4 AND DOUBLER 7V8-1SP

ON THE 701 THE TOP OF THE WING STRUT AT THE MAIN SPAR IS THE STANDARD TIE DOWN LOCATION. AN OPTIONAL TIE DOWN RING CAN BE INSTALLED ON THE NOSE RIB WHEN THE STRUTS ARE EQUIPPED WITH A STREAM LINE FAIRINGS



PART NUMBER 6W9-1 Δ OPTION: TIEDOWN RING
t=.125" 6061-T6 (2 REQ'D)



2 Δ TOP TIP ANGLE
t=.016" 6061-T6 (2 REQ'D)
l=840 dl=36

3 Δ LOWER TIP ANGLE
t=.016" 6061-T6 (2 REQ'D)
l=870 dl=36

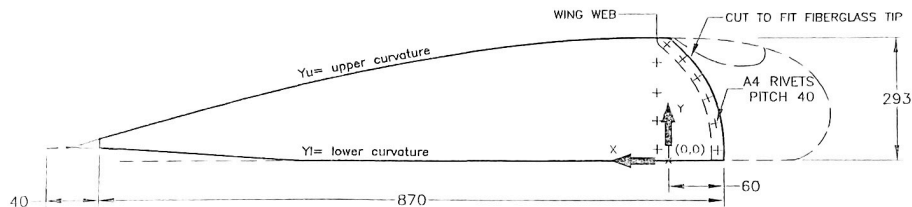
STOL
CH 701

WING RIVETING AND DETAILS

COPYRIGHT © 2002 CHRIS HEINTZ WWW.ZENITHAIR.COM

7-V-8

DATE: 01/2006

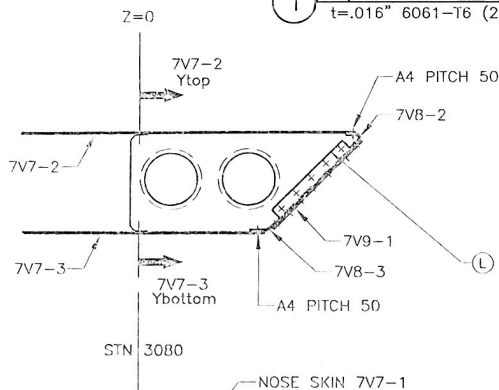


1 WING TIP SHEET

t=.016" 6061-T6 (2 REQ'D)

2 FIBERGLASS TIP

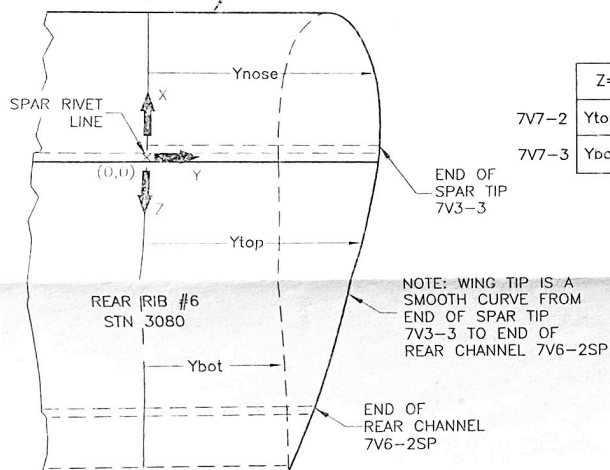
FIBERGLASS (1L & 1R REQ'D)
(APPROX. 335 WIDE X 190 LONG)



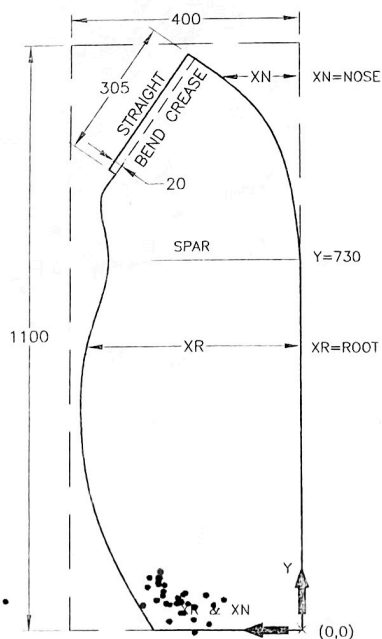
TIP SHEET TRIMMING										(0,0)
X=	810	700	600	500	400	300	200	100	0	60
7V9-1 Yu=	30	85	130	175	211	241	268	286	293	CURVATURE TO FIT TIP
7V9-1 Yl=	30	18	15	10	3	0	0	0	0	0

NOSE SKIN WING TIP TRIMMING													
7V7-1	X=	TOP 0	50	100	150	200	250	300	350	400	450	500	WING SPAR BOTTOM
	Ynose=	505	500	490	470	445	400	350	320	290	291	292	295

REAR SKINS WING TIP TRIMMING									
7V7-2 Z=	0	100	200	300	400	500	600	REAR CHANNEL	TRAILING EDGE
Ytop=	505	505	505	495	480	464	440	415	385
7V7-3 Ybot=	300	STRAIGHT LINE						370	

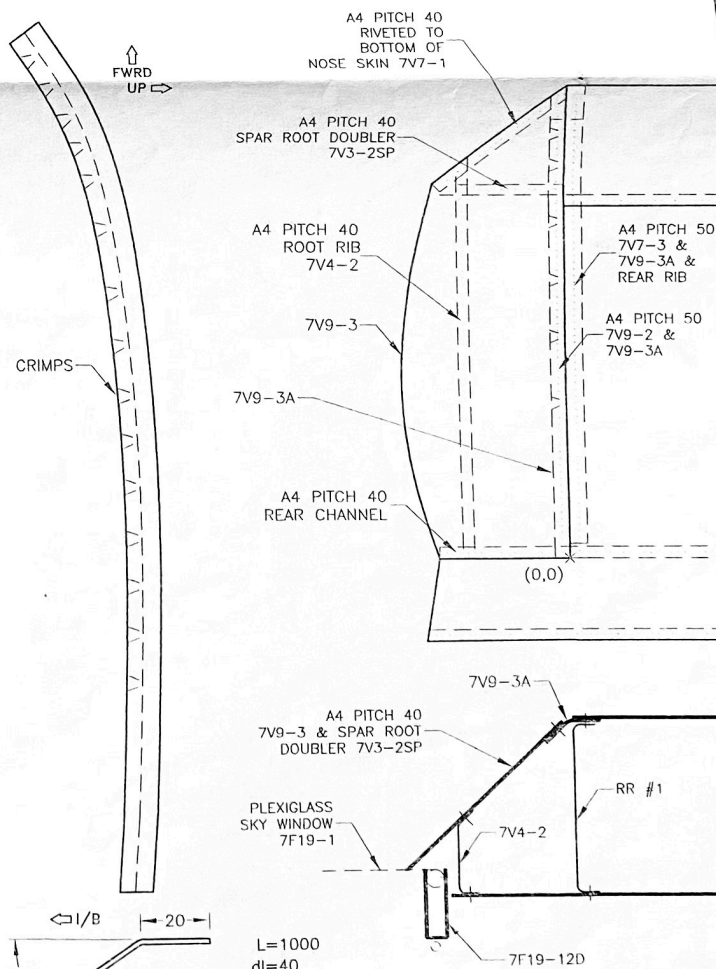


7V9-3		
Y	XR	XN
0	300	-
100	330	-
200	360	-
300	385	-
400	400	-
500	408	-
600	402	-
650	392	-
700	380	-
730	375	0
790	382	-
820	365	5
840	375	-
900	-	15
950	-	35
1000	-	65
1040	-	100
1075	175	175



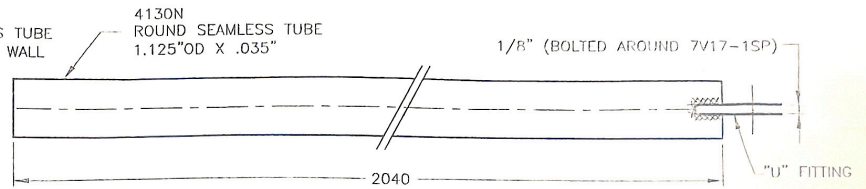
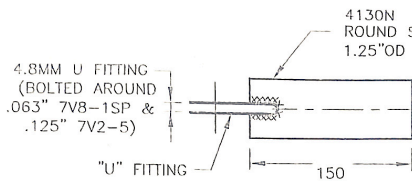
3 WING ROOT TOP SKIN

t=.016" 6061-T6 (2 REQ'D)



3A WING ROOT ANGLE

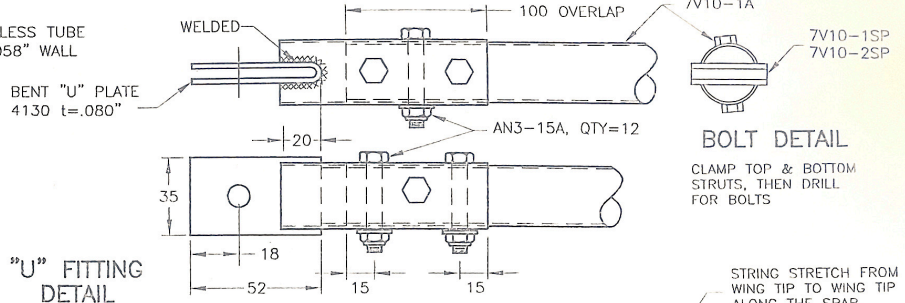
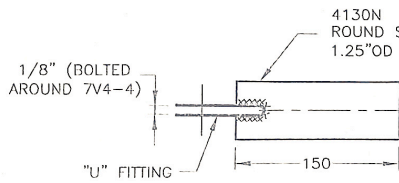
t=.025" 6061-T6 (2 REQ'D)



10-1SP 1 FRONT TOP STRUTS
WELDED ASSEMBLY (2 REQ'D)

10-1A 1 BOTTOM STRUTS
WELDED ASSEMBLY (4 REQ'D)

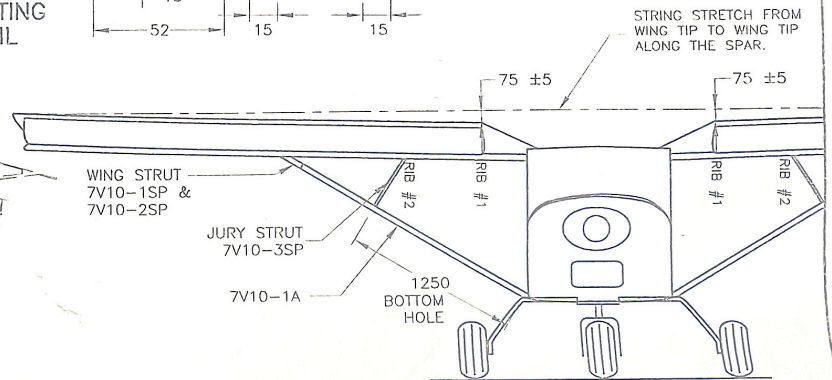
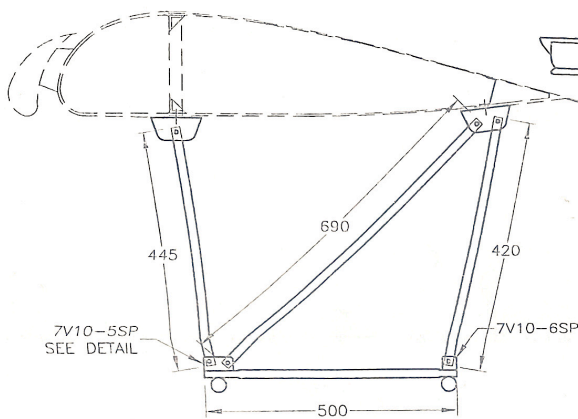
CUT FRONT BOTTOM STRUT TO FIT



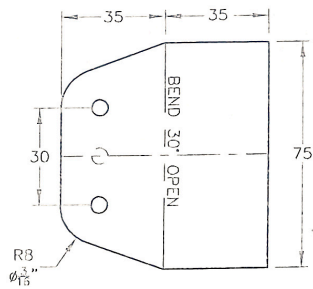
BOLT DETAIL
CLAMP TOP & BOTTOM
STRUTS, THEN DRILL
FOR BOLTS

10-2SP 2 REAR TOP STRUTS
WELDED ASSEMBLY (2 REQ'D)

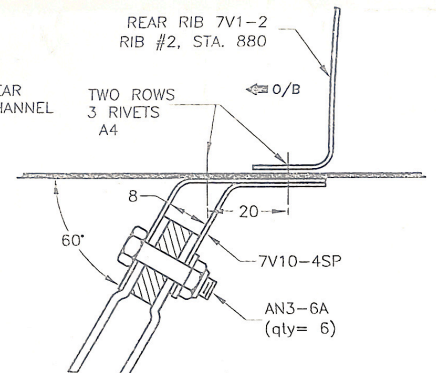
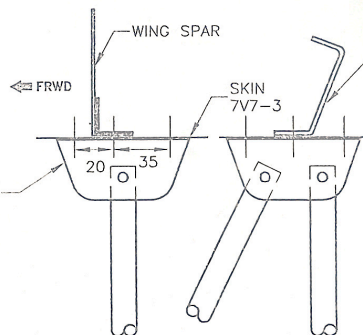
"U" FITTING
DETAIL



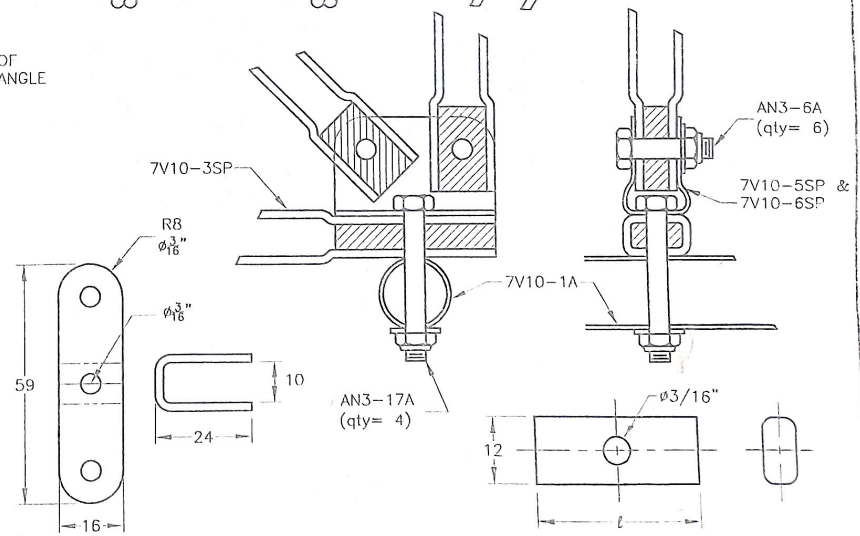
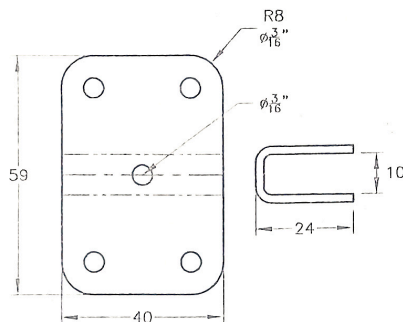
3SP 0 JURY STRUTS
.500"OD X .035" 6061-T6 (8 REQ'D)



TRIM FLANGE OF
OVERLAPPING ANGLE



4SP 0 JURY STRUT ANGLE
t=.025" 6061-T6 (4 & 4 BRACKETS REQ'D)



5SP 0 JURY STRUT BRACKETS
t=.050" 4130 (2 REQ'D)

6SP 0 JURY STRUT BRACKETS
t=.050" 4130 (2 REQ'D)

7SP 0 JURY STRUT CAP
t=.250" 6061-T6
l=21 (12 REQ'D) l=38 (4 REQ'D)

8267

STOL
CH 701

WING STRUTS, JURY STRUTS
AND STRUT INSTALLATION

COPYRIGHT © 2002 CHRIS HEINTZ WWW.ZENITHAIR.COM

7-V-10

DATE: 06/2005

