

#4-40 NYLON WING MOUNTING BOLTS (2)

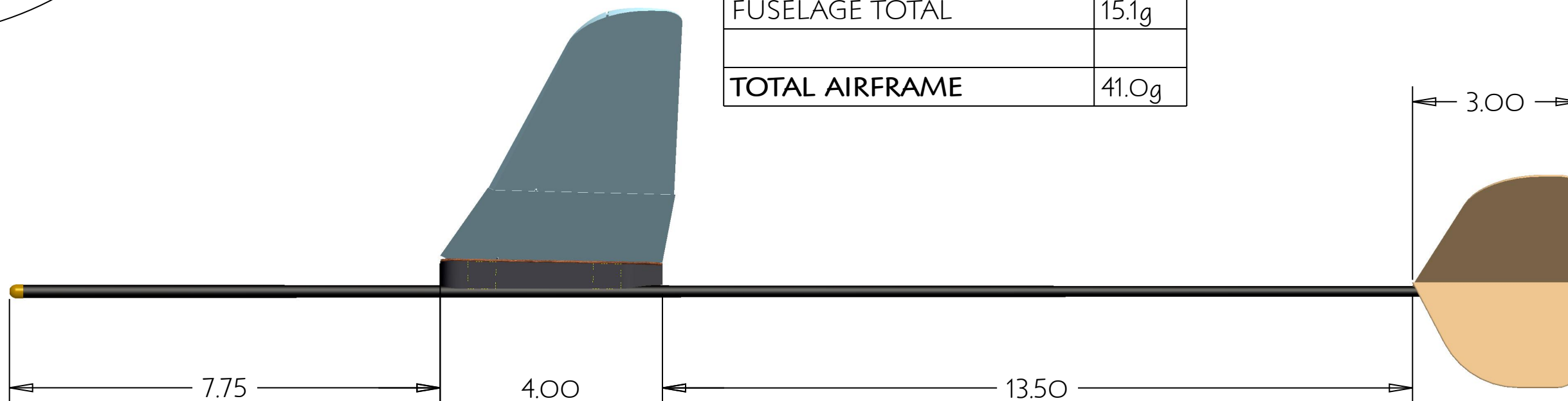
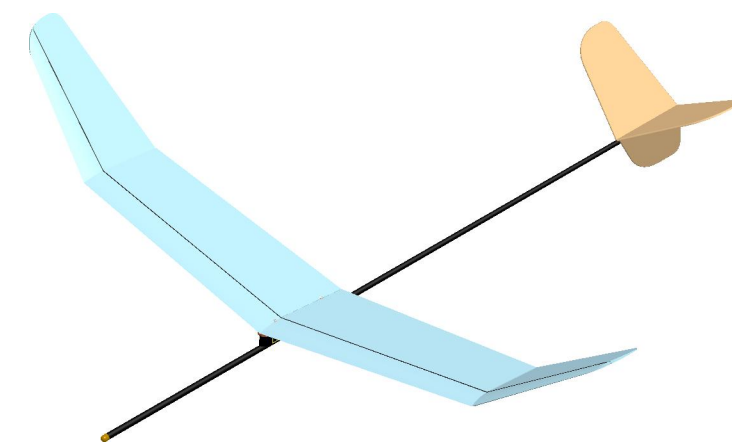
**AMALGAM**  
 A combination of diverse elements  
 Jim Buxton 5/24/2009  
 1st PLace USIC/AMA NATS 80.4 + 80.2

Sheet 1 of 2

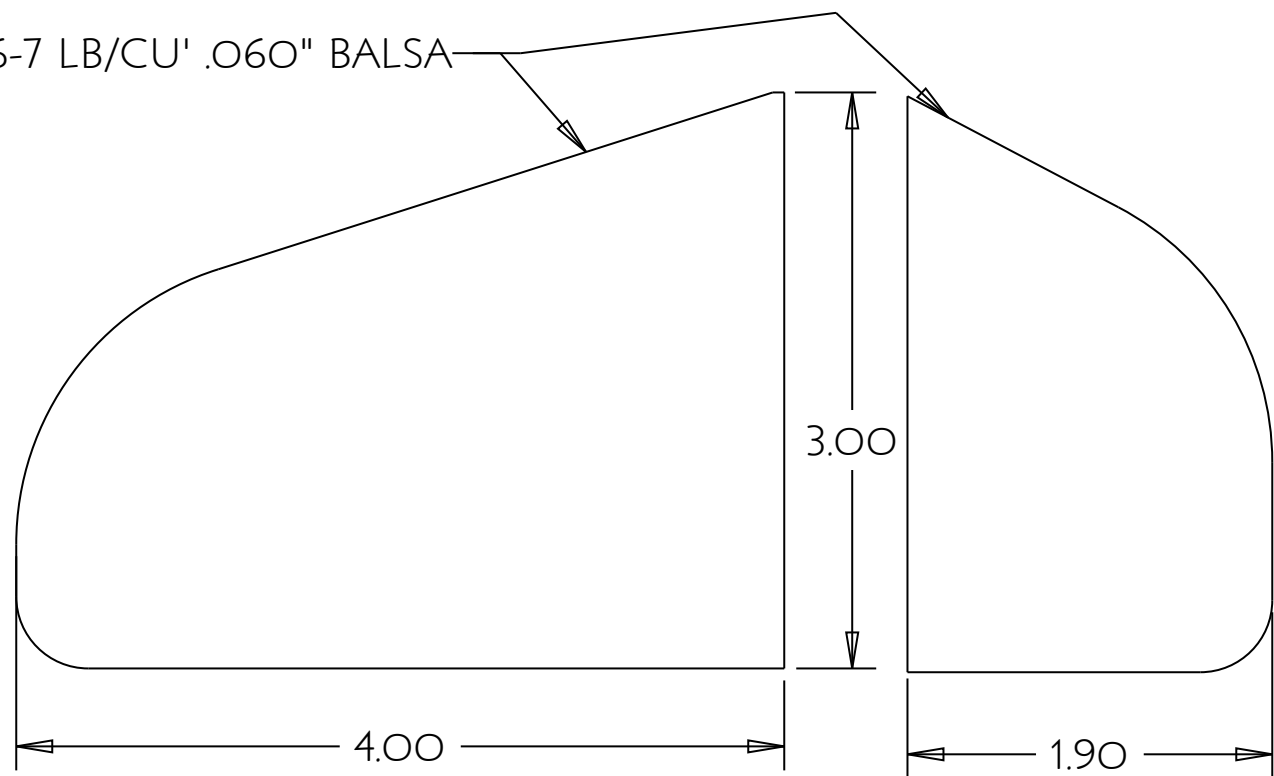
1/32 PLYWOOD DIHEDRAL BRACES  
 FULL DEPTH X 1.0" LONG  
 EPOXY IN PLACE BETWEEN SPARS  
 WRAP JOINT WITH .75" STRIP OF 1.4oz GLASS

SKEW STAB .070"

WING	
CORES-HILOAD-40	7.4g
SPARS-.040" CARBON	2.0g
2 LAYERS .7oz GLASS	14.2g
PLYWOOD DIH BRACES +1.4oz GLASS STRIPS +HARDPOINTS	2.0g
TIP WEIGHT+GRIPS	0.3g
<b>WING TOTAL</b>	<b>25.9g</b>
FUSELAGE	
SKYSHARK RESPONSE ZERO WHITE-28.25" LONG	6.3g
PYLON + SCREWS	3.4g
STABILZER	1.45g
RUDDER	.35g
BRASS NOSEWEIGHT	3.6g
<b>FUSELAGE TOTAL</b>	<b>15.1g</b>
<b>TOTAL AIRFRAME</b>	<b>41.0g</b>



6-7 LB/CU' .060" BALSA



TAP #4-40  
HARDEN WITH CA

.03 PLY

165°

.25

2.4oz CARBON CLOTH  
~45° BIAS

.75

4.00

3.00

.50

.43

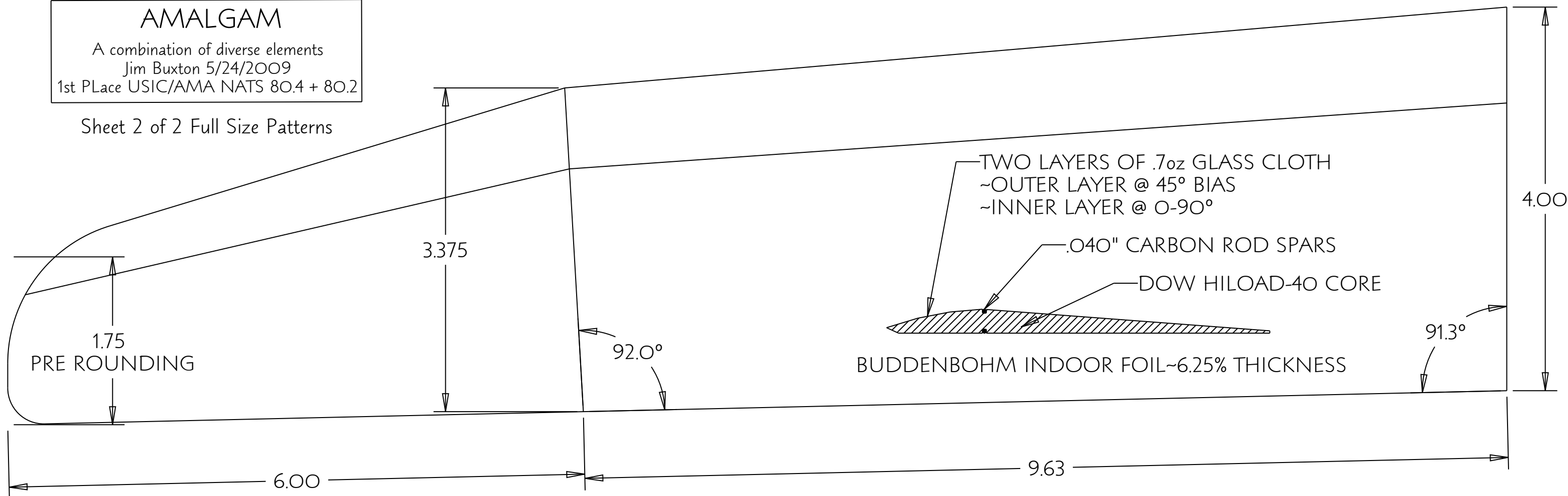
.50

1°

.25" THICK BALSA FILL  
.25" THICK X .05" WIDE  
BASSWOOD HARDPOINTS

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Sheet 2 of 2 Full Size Patterns



TWO LAYERS OF .7oz GLASS CLOTH  
~OUTER LAYER @ 45° BIAS  
~INNER LAYER @ 0-90°

.040" CARBON ROD SPARS

DOW HILOAD-40 CORE

BUDDENBOHM INDOOR FOIL ~6.25% THICKNESS