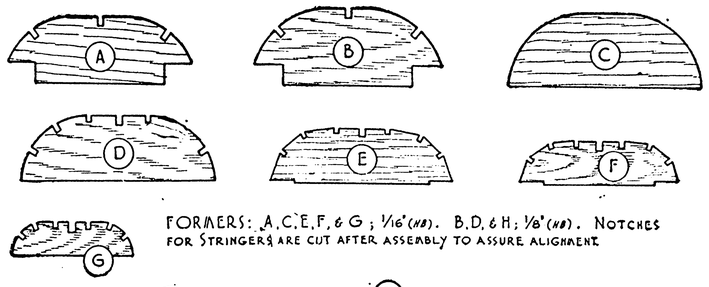
Faultless "Chick"

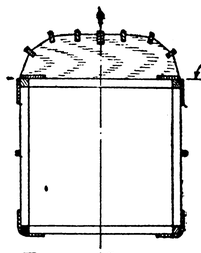
Class 'A' CONTEST BIPE.

N.B. *Hardness of Balsa is given in brackets following Size. Code is same as that used for Pencils.*

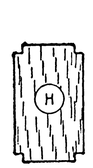
SCALE 0 ½ 1 1½ 2 3 4 5



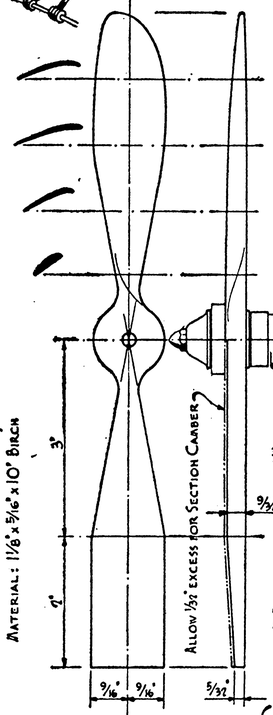
FORMERS: A, C, E, F, & G; 1/16" (HB). B, D, & H; 1/8" (HB). NOTCHES FOR STRINGERS ARE CUT AFTER ASSEMBLY TO ASSURE ALIGNMENT.



TYPICAL SECTION



ELEMENTS OF FINISHED BLADE

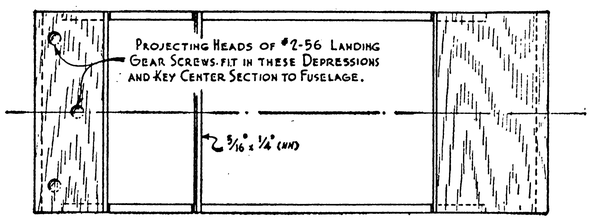


PROPELLER BLANK ~ 10"D/5"P.
MATERIAL: 1 1/8" x 5/16" x 10" BIRCH

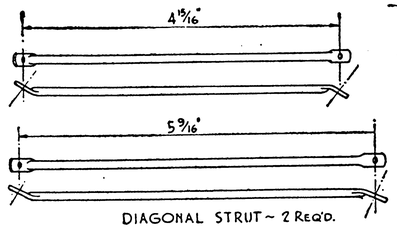
INCIDENCE ADJUSTMENT
As Front Strut is Fastened to Successive Holes in Incidence Plate, the Following Wing Incidences Result: 1½°, 2¼°, 3°, 3½°, and 4°

CABANE STRUT ATTACHMENT
1 To Platform: #2-56 x ¼" Rd. Hd. Mach. Screw in Front, and #2-56 Nut in Rear. Use Lockwashers.
To Fuselage: #2 x ½" Rd. Hd. Wood Screws in Front & Back.

CENTER SECTION ~ Bottom Wing. Ribs, 1/8" (HH). L.E. 1 1/8" x 3/16" (H). T.E., 1½" x 3/16" (H) Sheeting, 1/32" (B). *Note: Attach Wing Panels before Sheeting.*

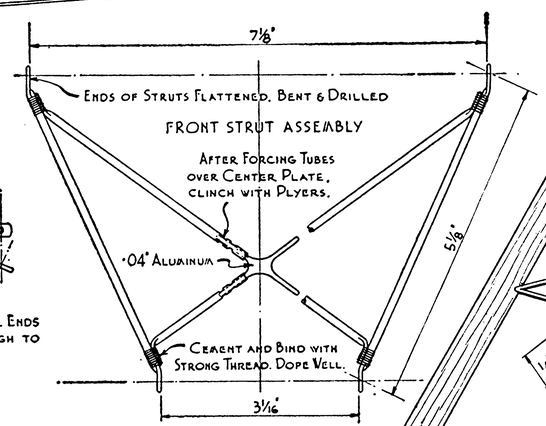


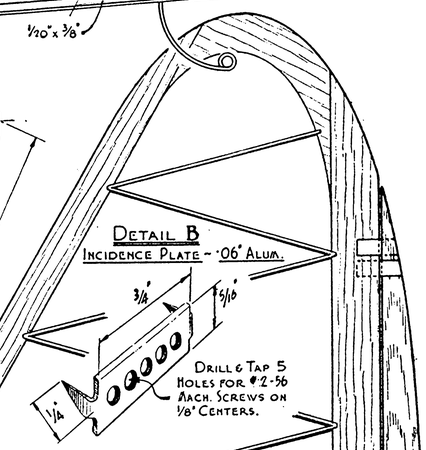
REAR STRUT ~ 2 Req'd.

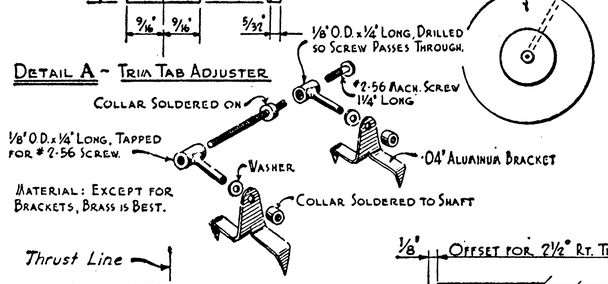


DIAGONAL STRUT ~ 2 Req'd.

CABANE STRUTS: 1/8" O.D. Aluminum Tubing. Anneal Ends before Flattening. Use Drill just large enough to allow #2 Screws freely through.

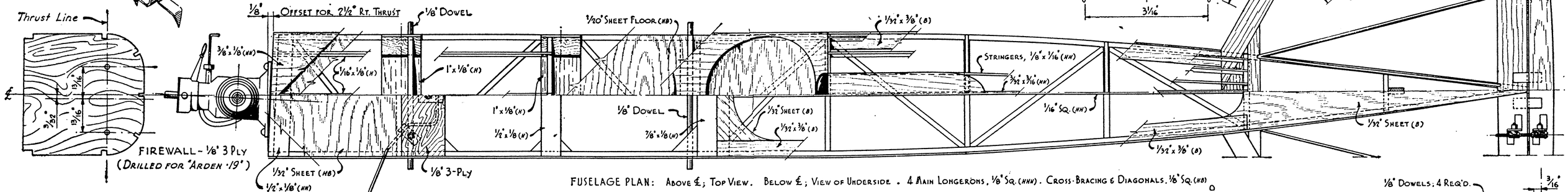






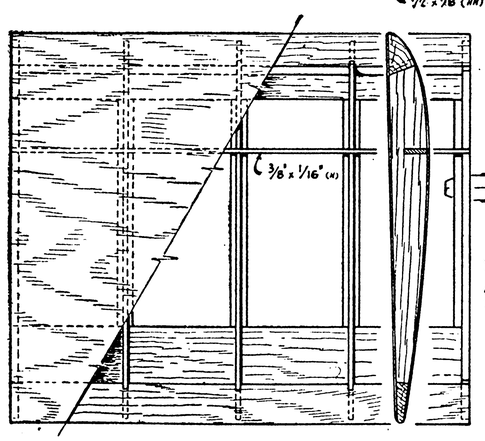
DETAIL A ~ TRIM TAB ADJUSTER

MATERIAL: Except for Brackets, Brass is Best.



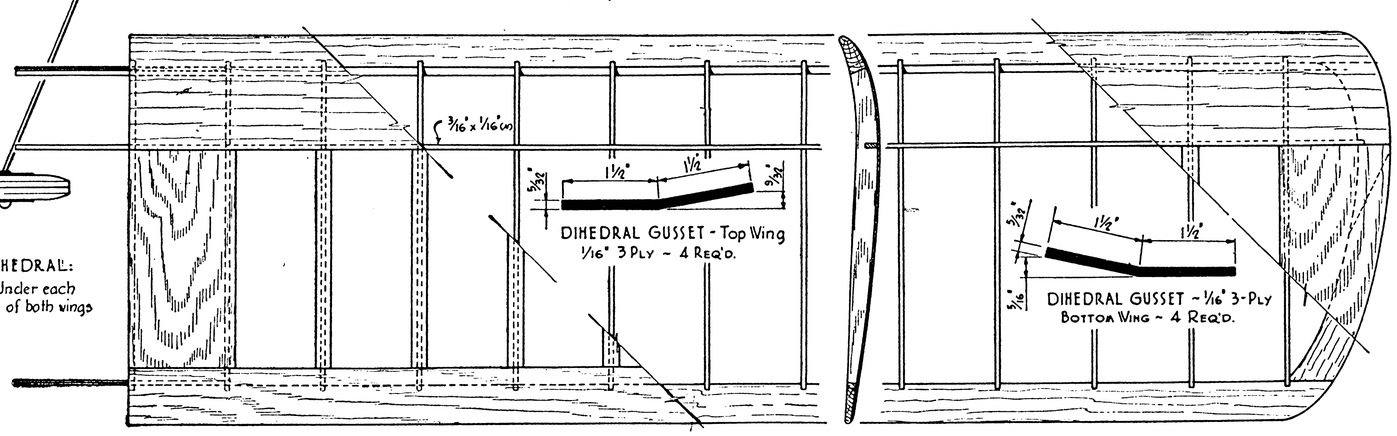
FIREWALL ~ 1/8" 3 Ply (Drilled for "Arden .19")

FUSELAGE PLAN: Above ℄; Top View. Below ℄; View of Underside. 4 Main Longerons, 1/8" Sq. (HHH). Cross-Bracing & Diagonals, 1/8" Sq. (HB)

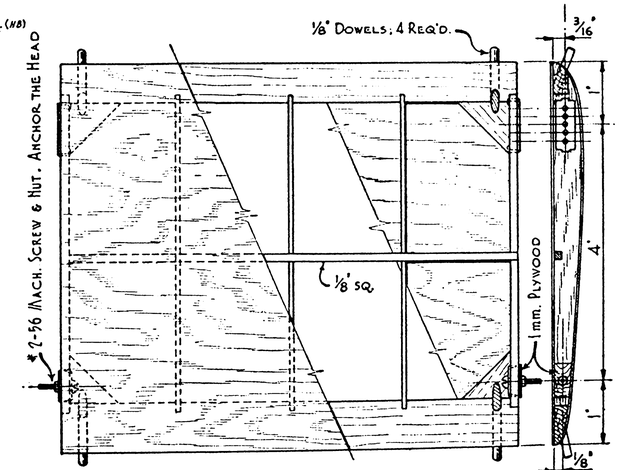


CENTER SECTION ~ Top Wing: Root Ribs 1/8" (H); others 1/16" (HB). Sheeting & ¼" Cap Strips, 1/32" (B). L.E. Spar, 5/8" x ½". T.E. Spar, 1/8" x 3/16" (B)

DIHEDRAL: 4" Under each tip of both wings

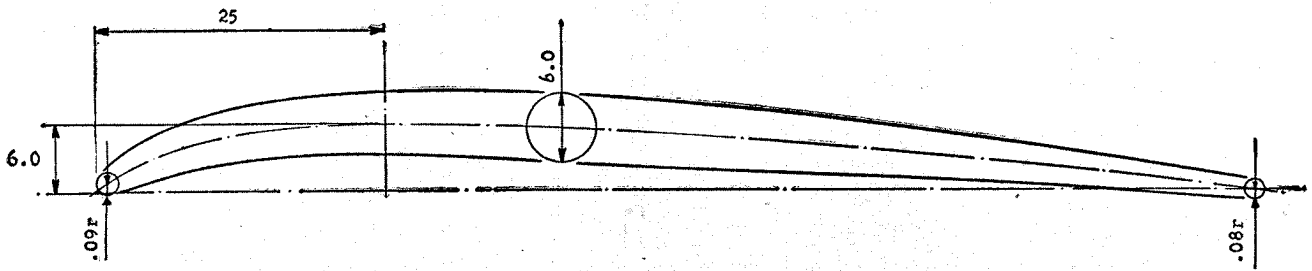


WING PANEL: 2 Port & 2 Stbd. Req'd. Root Rib 1/8" (H); all others 1/16" (HB) Sheeting & ¼" Cap Strips are 1/32" (B). L.E. Spar: ¼" x ½" (HB). T.E. Spar; 5/8" x 3/16" (HB)
IMPORTANT: Tips of both wings given washout ~ about ¼" under T.E. at tip.



PLATFORM: Root Ribs 1/8" (HH), others 1/16" (HB). Sheeting, 1/32" (B). L.E. is 5/8" x 1/4" (H). T.E., ¾" x 3/16" (H). Strut Attachment, See Detail B

STAB. & FIN: Outline of 1/4" (HB). Ribs, 1/4" x 1/16" (HB). Trim Tabs, 1/8" (HH), hinged with Cloth Hinges. See Detail A for Trim Tab Adjuster



% C.	0	1.25	2.5	5	7.5	10	15	20	25	30	40	50	60	70	80	90	100
U	0.7	2.4	3.6	4.9	5.8	6.7	7.7	8.2	8.4	8.5	8.3	7.5	6.5	5.3	3.6	2.2	0
L	0.7	−.02	0	0.8	1.5	2.0	2.8	3.0	3.0	2.8	2.3	1.6	1.4	1.0	0.4	−0.3	0