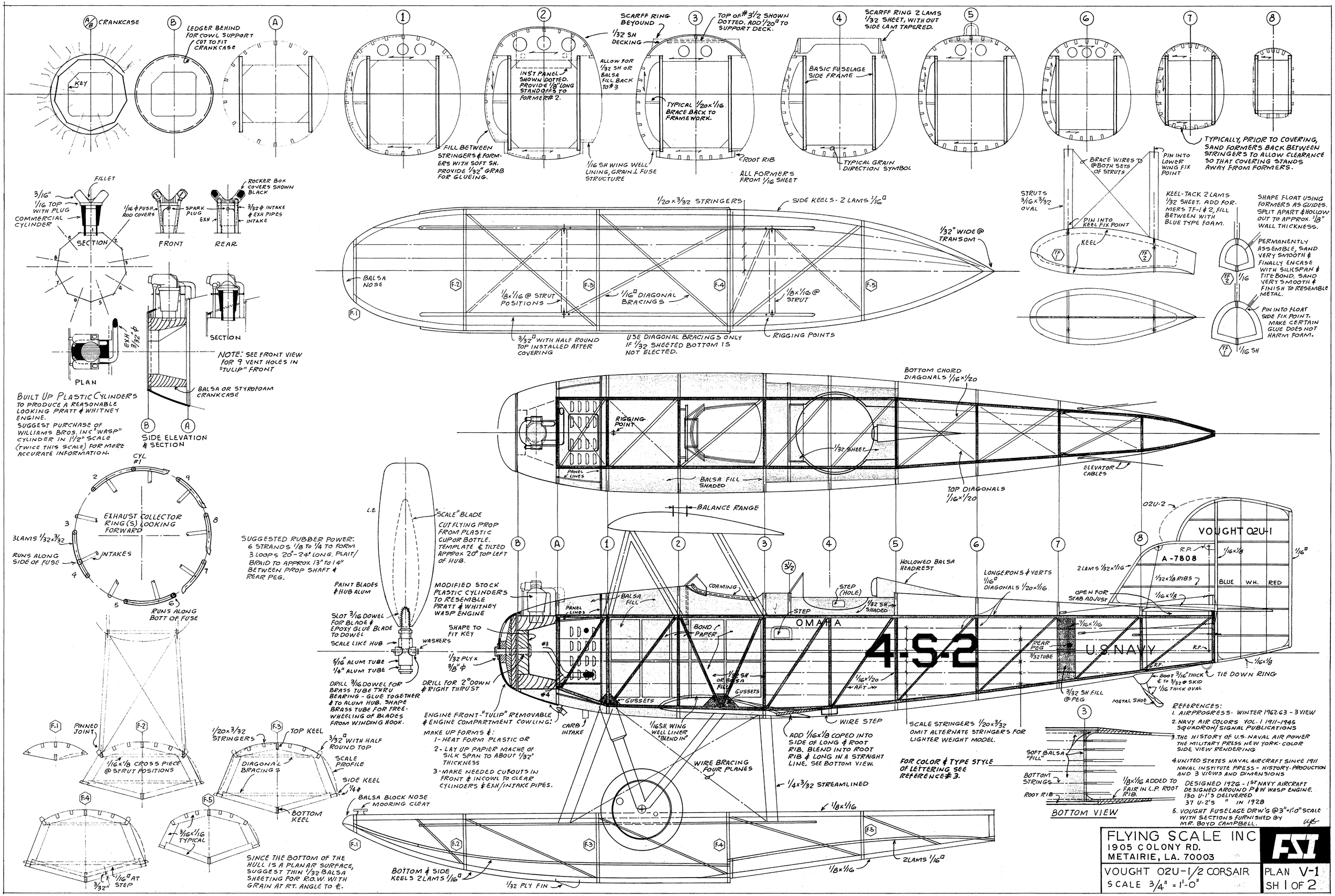
A/B CRANKCASE
B
A
LEDGER BEHIND FOR COWL SUPPORT CUT TO FIT CRANKCASE
KEY
1
2
3
4
5
6
7
8
SCARFF RING BEYOUND
1/32 SH DECKING
TOP OF #3 1/2 SHOWN DOTTED. ADD 1/20□ TO SUPPORT DECK.
SCARFF RING 2 LAMS 1/32 SHEET, WITH OUT SIDE LAM TAPERED.
INST PANEL SHOWN DOTTED. PROVIDE 1/8" LONG STANDOFFS TO FORMER #2.
ALLOW FOR 1/32 SH OR BALSA FILL BACK TO #3
BASIC FUSELAGE SIDE FRAME
TYPICAL 1/20x1/16 BRACE BACK TO FRAMEWORK.
FILL BETWEEN STRINGERS & FORMERS WITH SOFT SH. PROVIDE 1/32" GRAB FOR GLUEING.
1/16 SH WING WELL LINING, GRAIN ⊥ FUSE STRUCTURE
ROOT RIB
ALL FORMERS FROM 1/16 SHEET
TYPICAL GRAIN DIRECTION SYMBOL
TYPICALLY, PRIOR TO COVERING, SAND FORMERS BACK BETWEEN STRINGERS TO ALLOW CLEARANCE SO THAT COVERING STANDS AWAY FROM FORMERS.
FILLET
3/16"
1/16 TOP WITH PLUG
COMMERCIAL CYLINDER
SECTION
1/16 ϕ PUSH ROD COVERS
SPARK PLUG
EXH
FRONT
ROCKER BOX COVERS SHOWN BLACK
3/32 ϕ INTAKE & EXH PIPES
INTAKE
REAR
EXH 3/32 ϕ
PLAN
SECTION
NOTE: SEE FRONT VIEW FOR 9 VENT HOLES IN "TULIP" FRONT
BALSA OR STYROFOAM CRANKCASE
BUILT UP PLASTIC CYLINDERS TO PRODUCE A REASONABLE LOOKING PRATT & WHITNEY ENGINE.
SUGGEST PURCHASE OF WILLIAMS BROS. INC "WASP" CYLINDER IN 1 1/2" SCALE (TWICE THIS SCALE) FOR MORE ACCURATE INFORMATION.
SIDE ELEVATION & SECTION
1/20x3/32 STRINGERS
SIDE KEELS - 2 LAMS 1/16□
1/32" WIDE @ TRANSOM
BALSA NOSE
F-1
F-2
F-3
F-4
F-5
1/8x1/16 @ STRUT POSITIONS
1/16□ DIAGONAL BRACINGS
1/8x1/16 @ STRUT
3/32□ WITH HALF ROUND TOP INSTALLED AFTER COVERING
USE DIAGONAL BRACINGS ONLY IF 1/32 SHEETED BOTTOM IS NOT ELECTED.
RIGGING POINTS
BRACE WIRES TO @BOTH SETS OF STRUTS
PIN INTO LOWER WING FIX POINT
STRUTS 3/16x3/32 OVAL
PIN INTO KEEL FIX POINT
KEEL
KEEL-TACK 2 LAMS 1/32 SHEET. ADD FORMERS TF-1 & 2, FILL BETWEEN WITH BLUE TYPE FOAM.
SHAPE FLOAT USING FORMERS AS GUIDES. SPLIT APART & HOLLOW OUT TO APPROX. 1/8" WALL THICKNESS.
PERMANENTLY ASSEMBLE, SAND VERY SMOOTH & FINALLY ENCASE WITH SILKSPAN & TITEBOND. SAND VERY SMOOTH & FINISH TO RESEMBLE METAL.
1/16
PIN INTO FLOAT SIDE FIX POINT. MAKE CERTAIN GLUE DOES NOT HARM FOAM.
1/16 SH
BOTTOM CHORD DIAGONALS 1/16x1/20
RIGGING POINT
1/32 SHEET
PANEL LINES
BALSA FILL SHADED
ELEVATOR CABLES
TOP DIAGONALS 1/16x1/20
BALANCE RANGE
EXHAUST COLLECTOR RING(S) LOOKING FORWARD
3 LAMS 1/32x3/32
INTAKES
RUNS ALONG SIDE OF FUSE
RUNS ALONG BOTT OF FUSE
SUGGESTED RUBBER POWER: 6 STRANDS 1/8 TO 1/4 TO FORM 3 LOOPS 20"-24" LONG. PLAIT/BRAID TO APPROX 13" TO 14" BETWEEN PROP SHAFT & REAR PEG.
L.E.
"SCALE" BLADE
CUT FLYING PROP FROM PLASTIC CUPOR BOTTLE. TEMPLATE ⊥ TILTED APPROX 20° TOP LEFT OF HUB.
PAINT BLADES & HUB ALUM
MODIFIED STOCK PLASTIC CYLINDERS TO RESEMBLE PRATT & WHITNEY WASP ENGINE
SLOT 3/16 DOWEL FOR BLADE & EPOXY GLUE BLADE TO DOWEL
SCALE LIKE HUB
WASHERS
5/16" ALUM TUBE
1/4" ALUM TUBE
DRILL 3/16 DOWEL FOR BRASS TUBE THRU BEARING - GLUE TOGETHER & TO ALUM HUB. SHAPE BRASS TUBE FOR FREE-WHEELING OF BLADES FROM WINDING HOOK.
SHAPE TO FIT KEY
1/32 PLY x 3/8" ϕ
DRILL FOR 2° DOWN & RIGHT THRUST
ENGINE FRONT "TULIP" REMOVABLE & ENGINE COMPARTMENT COWLING:
MAKE UP FORMS &:
1- HEAT FORM PLASTIC OR
2- LAY UP PAPIER MACHE OF SILK SPAN TO ABOUT 1/32" THICKNESS
3- MAKE NEEDED CUTOUTS IN FRONT & INCOWL TO CLEAR CYLINDERS & EXH/INTAKE PIPES.
CARB INTAKE
COWLING
BALSA FILL
PANEL LINES
BOND PAPER
STEP (HOLE)
1/32 SH SHADED
STEP
HOLLOWED BALSA HEADREST
LONGERONS & VERTS 1/16□ DIAGONALS 1/20x1/16
OPEN FOR STAB ADJUST
OMAHA
4-S-2
U.S. NAVY
REAR PEG
3/32 TUBE
1/16x1/20 AFT
1/16 SH OR BALSA FILL
GUSSETS
1/16 SH. WING WELL LINER "BLEND IN"
ADD 1/16x1/8 COPED INTO SIDE OF LONG & ROOT RIB. BLEND INTO ROOT RIB & LONG IN A STRAIGHT LINE. SEE BOTTOM VIEW.
WIRE STEP
SCALE STRINGERS 1/20x3/32 OMIT ALTERNATE STRINGER'S FOR LIGHTER WEIGHT MODEL.
FOR COLOR & TYPE STYLE OF LETTERING SEE REFERENCE #3.
WIRE BRACING FOUR PLANES
1/4x3/32 STREAMLINED
1/8x1/16
2 LAMS 1/16□
BOTTOM & SIDE KEELS 2 LAMS 1/16□
1/32 PLY FIN
02U-2
VOUGHT 02U-1
R.P.
A-7808
1/16x1/8
1/16□
2 LAMS 1/32x1/16
1/32x1/8 RIBS
BLUE
WH.
RED
1/16x1/8
1/16x1/16
3/32 SH FILL @ PEG
BOOT 3/16" THICK & TO 3/32 @ SKID
1/16 THICK OVAL
TIE DOWN RING
METAL SHOE
PINNED JOINT
1/16x1/8 CROSS PIECE @ STRUT POSITIONS
1/20x3/32 STRINGERS
TOP KEEL
3/32□ WITH HALF ROUND TOP
SCALE PROFILE
DIAGONAL BRACINGS
SIDE KEEL
1/4 ϕ
BOTTOM KEEL
BALSA BLOCK NOSE MOORING CLEAT
3/16x1/16 TYPICAL
1/16□ AT STEP
3/32"
SINCE THE BOTTOM OF THE HULL IS A PLANAR SURFACE, SUGGEST THIN 1/32 BALSA SHEETING FOR R.O.W. WITH GRAIN AT RT. ANGLE TO ℄.
SOFT BALSA "FILL"
BOTTOM STRINGS
ROOT RIB
1/8x1/16 ADDED TO FAIR IN L.P. ROOT RIB
BOTTOM VIEW
REFERENCES:
1. AIRPROGRESS. WINTER 1962-63 - 3 VIEW
2. NAVY AIR COLORS VOL. 1 1911-1945 SQUADRON/SIGNAL PUBLICATIONS
3. THE HISTORY OF U.S. NAVAL AIR POWER THE MILITARY PRESS NEW YORK. COLOR SIDE VIEW RENDERING
4. UNITED STATES NAVAL AIRCRAFT SINCE 1911 NAVAL INSTITUTE PRESS - HISTORY. PRODUCTION AND 3 VIEWS AND DIMENSIONS
DESIGNED 1926 - 1ST NAVY AIRCRAFT DESIGNED AROUND P&W WASP ENGINE.
130 U-1'S DELIVERED
37 U-2'S " IN 1928
5. VOUGHT FUSELAGE DRW'G @ 3"=1'0" SCALE WITH SECTIONS FURNISHED BY MR. BOYD CAMPBELL.
FLYING SCALE INC
1905 COLONY RD.
METAIRIE, LA. 70003
FSI
VOUGHT 02U-1/2 CORSAIR
SCALE 3/4" = 1'-0"
PLAN V-1
SH 1 OF 2

SHIM UP TIP RIBS 16 & 17 TO PROVIDE PROPER TIP TAPER.

CUT FOR L.E. 1/32 SHEETING SHOWN ONLY ON LOWER WING RIBS.

#17 #16 #1 ROOT RIB 1/16 SH. TYPICAL

NOTE: NO ALLOWANCE RIB #1 FOR 1/32 SH. WING WALK.

TIP 2 LAMS 3/16x1/32 TAPER FROM L.E. INTO 1/16 T.E.

1/8 SH AILERON STRUT FIX POINT

1/8x1/16

AILERON OUTLINE

1/16 SH.

TAPER REAR SPAR FROM #4 TO 1/16 AT ROOT RIB

1/20x3/16

1/8 SH TIP FLOAT STRUT FIX POINT REINF. ON BOTTOM

3/16x1/16 STRUT FIX POINT REINFORCING ON TOP

FLYING WIRES RIGGING POINTS

1/32 SH. WING WALK - BLACK, L.E. BACK TO T.E.

1/16□ STRUT FIX POINT REINF. BOTH SIDES OF SPAR ON TOP

1/20x1/16 TOP & BOTTOM SPARS

17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 ROOT RIB 1/16

LANDING WIRES RIGGING POINTS

3/32□

SOFT/THIN 1/32 L.E. SHEETING SEE UPPER WING NOTE

+1/8" WASH OUT BOTH LOWER WING PANELS.

ALTERNATE RIBS SHOWN THIS PANEL FOR LIGHTER WEIGHT MODEL.

INTERPLANE STRUT FIX POINTS ON TOP

1 2 4 6 8 10 12 14 16

POSITION OF INSIGNIA ON BOTTOM OF BOTH WINGS.

SCALE RIB SPACINGS SHOWN FOR BOTH WINGS ON THIS SIDE OF ℄.

NOTE: REAR SPAR TAPER AT TIP RIBS

#22 #21 TYPICAL NOTE REAR SPAR TAPER 02U-2 #1

02U-2 CENTER SECT BOW - 2 LAMS 1/16□

TAPERED 3/32x1/8

1/16x1/8

02U-2

REAR CABANE STRUT FIX PT.

LANDING WIRE RIGGING PT.

1/16x1/4

AILERON STRUT FIX POINT

TIP 2 LAMS 3/16x1/32, TAPER FROM 3/16 HIGH @ LE TO 1/16 HIGH @ TE

AILERON OUTLINE

1/16□ ON BOTTOM

FLYING WIRES RIGGING PTS.

INTERPLANE STRUT FIX POINTS ON BOTTOM

22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 3 5 7 8 10 12 14 16 18 20 22

ROLL WIRE RIGGING PT.

FRONT CABANE STRUT FIX PT.

LANDING WIRE RIGGING PT.

1/16□ TOP & BOTTOM SPARS

1/16□ ON BOTTOM

3/32□

POSITION OF INSIGNIA ON TOP OF BOTH WING PANELS

BOND PAPER, DOUBLED TISSUE COVERING, OR SOFT/THIN 1/32 L.E. SHEETING. DECIDE & CUT RIBS ACCORDINGLY.

02U-2 - ALSO RIBS DECREASE IN HEIGHT DOWN TO 1/4" @ #0

GENERAL COLORING DATA:

UPPER SURFACE OF TOP WING & HORIZ TAIL - CHROME YELLOW
FABRIC SURFACES - ALUMINUM
METAL SURFACES - GRAY
STRUTS - GRAY, WIRES SILVER (CHROME)
LETTERING - BLACK EXCEPT WHITE ON BLUE & RED RUDDER AREAS
RUDDER BARS - BLUE/WHITE/RED
SEE REFERENCE #3

02U-2 DOTTED

SINGLE ROLL WIRE-FRONT

02U-2 1 1/2°

7/8"

SCALE DIHEDRAL 02U-1 0°

SINGLE LANDING WIRES

"TULIP" VENT HOLES

SHUTTERS BEHIND

REAR FLYING WIRES-DOUBLE

FRONT FLYING WIRES-DOUBLE

02U-2 1 1/2°

15/16"

02U-1 0°

PIN INTO ℄ BOTT LONG

INTO BOTT OF ROOT RIB

3/8x3/16 OVAL

1/4x3/32 OVAL

3/16x3/32 OVAL

1/8"φ DOWEL

AXLE YOLK STRUT LEFT REAR TO 1/8 DOWEL

TRIM END TO FUSE BOTTOM & REAR L.G. LEG

THRU AXLE STRUT RT. REAR TO 1/8 DOWEL

COPE TO 1/8"φ DOWEL

APPROX SCALE POSITION & PROFILE OF TIP FLOATS.

1/16 BALSA
1/16 ALUM TUBE
1/8 DOWEL
1/16 DRUM
1/64 PLY CORE
3/32 BALSA
SLIGHT GROOVE
3/32 BALSA

STRAIGHT PIN INTO F & R SPAR

3/16x3/32 STREAMLINED

STRAIGHT PIN INTO SIDE OF LONGERON

℄ TOP LONG

CABANE STRUTS

MAKE LEFT & RIGHT

STRAIGHT PIN INTO F & R SPAR

3/16x3/32 STREAMLINED

PIN INTO SPARS

INTERPLANE STRUTS

1/8x1/16 OVAL

AILERON STRUT

2 LAMS 1/32x1/16

1/16x1/8

1/16x3/16

1/16x3/16

HORN

RIGGING POINT (RP)

02U-2

RP

1/32x3/16 RIBS

1/16□

SAND TO AIRFOIL, ON TOP SIDE, WITH "SHARP" LEADING EDGE.

2 LAMS 1/32x1/16

PAPER TUBE @ RIGGING PTS, ROLL ON 1/32 MW

1/16□ "SHARP" LE

OPEN TO FIT RUDDER/FIN

1/16x3/16

1/16x3/16

HORN

1/20x3/16 RIBS

1/16x3/16

1/16□

FLYING SCALE INC.
1905 COLONY RD.
METAIRIE, LA. 70003

FSI

VOUGHT 02U-1/2 CORSAIR
SCALE 3/4" = 1'-0"

PLAN V-1
SH 2 OF 2