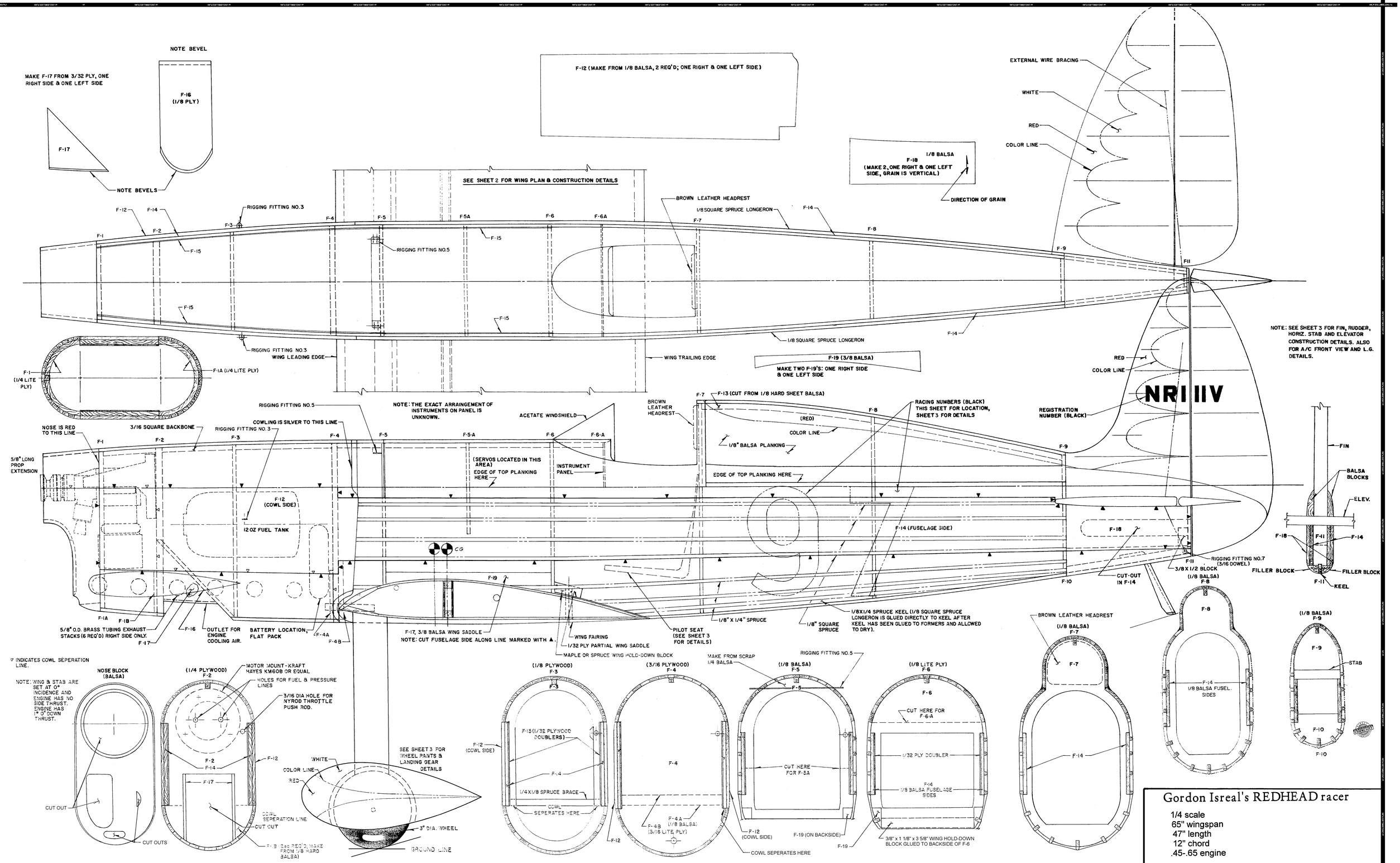
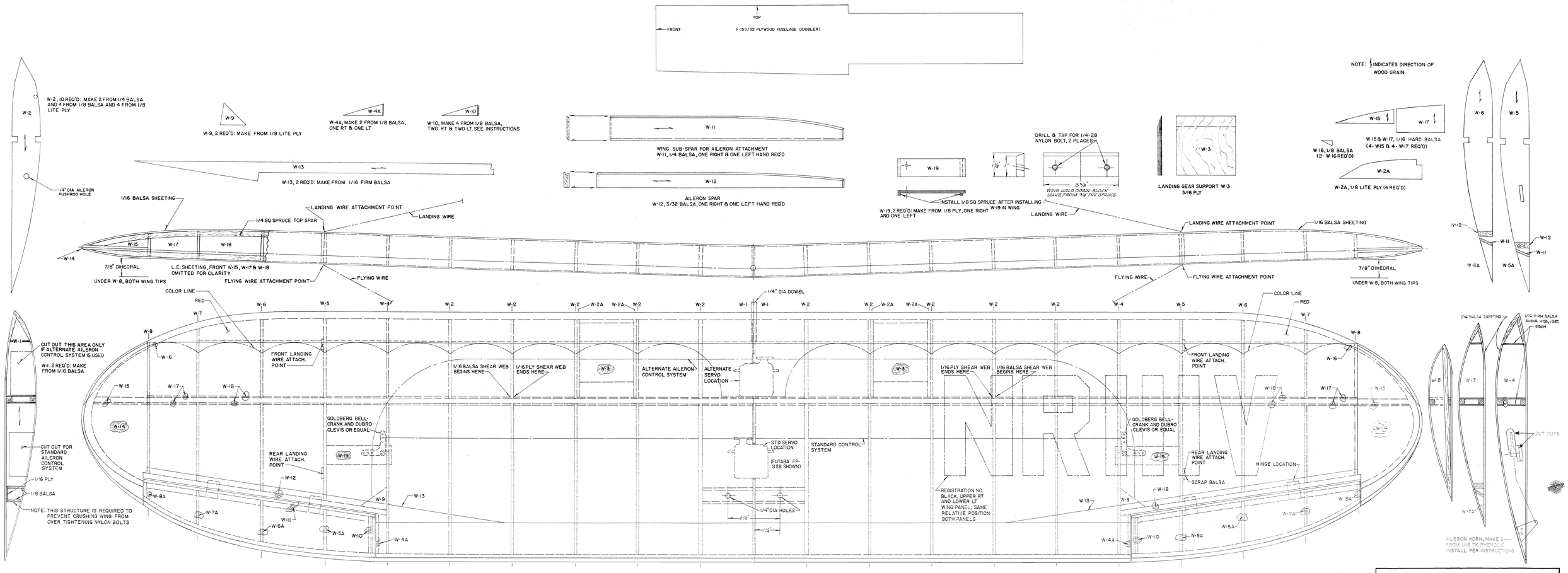
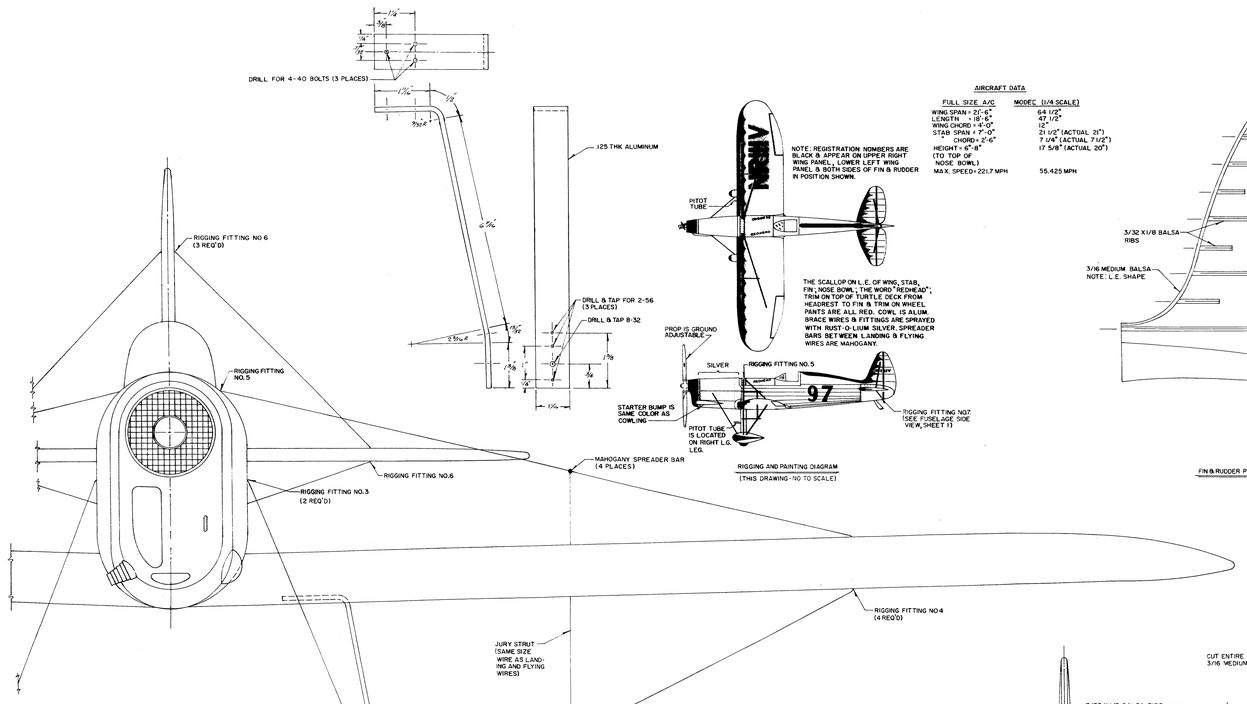

NOTE BEVEL
MAKE F-17 FROM 3/32 PLY, ONE RIGHT SIDE & ONE LEFT SIDE
F-16 (1/8 PLY)
F-17
NOTE BEVELS
F-12 (MAKE FROM 1/8 BALSA, 2 REQ'D; ONE RIGHT & ONE LEFT SIDE)
F-18 1/8 BALSA (MAKE 2, ONE RIGHT & ONE LEFT SIDE, GRAIN IS VERTICAL)
DIRECTION OF GRAIN
EXTERNAL WIRE BRACING
WHITE
RED
COLOR LINE
SEE SHEET 2 FOR WING PLAN & CONSTRUCTION DETAILS
BROWN LEATHER HEADREST
1/8 SQUARE SPRUCE LONGERON
RIGGING FITTING NO.3
RIGGING FITTING NO.5
WING LEADING EDGE
WING TRAILING EDGE
F-19 (3/8 BALSA)
MAKE TWO F-19'S: ONE RIGHT SIDE & ONE LEFT SIDE
NOTE: SEE SHEET 3 FOR FIN, RUDDER, HORIZ. STAB AND ELEVATOR CONSTRUCTION DETAILS. ALSO FOR A/C FRONT VIEW AND L.G. DETAILS.
F-1 (1/4 LITE PLY)
F-1A (1/4 LITE PLY)
NRI IIV
REGISTRATION NUMBER (BLACK)
F-13 (CUT FROM 1/8 HARD SHEET BALSA)
RACING NUMBERS (BLACK) THIS SHEET FOR LOCATION, SHEET 3 FOR DETAILS
NOTE: THE EXACT ARRAINGEMENT OF INSTRUMENTS ON PANEL IS UNKNOWN.
ACETATE WINDSHIELD
COWLING IS SILVER TO THIS LINE
NOSE IS RED TO THIS LINE
3/16 SQUARE BACKBONE
5/8" LONG PROP EXTENSION
(SERVOS LOCATED IN THIS AREA)
EDGE OF TOP PLANKING HERE
INSTRUMENT PANEL
1/8" BALSA PLANKING
F-12 (COWL SIDE)
12 OZ FUEL TANK
CG
F-14 (FUSELAGE SIDE)
FIN
BALSA BLOCKS
ELEV.
RIGGING FITTING NO.7 (3/16 DOWEL)
3/8 X 1/2 BLOCK
FILLER BLOCK
KEEL
CUT-OUT IN F-14
5/8" O.D. BRASS TUBING EXHAUST STACKS (6 REQ'D) RIGHT SIDE ONLY.
OUTLET FOR ENGINE COOLING AIR.
BATTERY LOCATION, FLAT PACK
F-17, 3/8 BALSA WING SADDLE
NOTE: CUT FUSELAGE SIDE ALONG LINE MARKED WITH ▲
WING FAIRING
1/32 PLY PARTIAL WING SADDLE
MAPLE OR SPRUCE WING HOLD-DOWN BLOCK
PILOT SEAT (SEE SHEET 3 FOR DETAILS)
1/8" X 1/4" SPRUCE
1/8" SQUARE SPRUCE
1/8X1/4 SPRUCE KEEL (1/8 SQUARE SPRUCE LONGERON IS GLUED DIRECTLY TO KEEL AFTER KEEL HAS BEEN GLUED TO FORMERS AND ALLOWED TO DRY).
▽ INDICATES COWL SEPERATION LINE.
NOTE: WING & STAB ARE SET AT 0° INCIDENCE AND ENGINE HAS NO SIDE THRUST. ENGINE HAS 1" 0" DOWN THRUST.
NOSE BLOCK (BALSA)
(1/4 PLYWOOD) F-2
MOTOR MOUNT-KRAFT HAYES KM60B OR EQUAL
HOLES FOR FUEL & PRESSURE LINES
3/16 DIA HOLE FOR NYROD THROTTLE PUSH ROD.
CUT OUT
CUT OUTS
COWL SEPERATION LINE
SEE SHEET 3 FOR WHEEL PANTS & LANDING GEAR DETAILS
3" DIA. WHEEL
GROUND LINE
(1/8 PLYWOOD) F-3
F-15 (1/32 PLYWOOD DOUBLERS)
1/4X1/8 SPRUCE BRACE
COWL SEPERATES HERE
(3/16 PLYWOOD) F-4
F-4A (1/8 BALSA)
F-4B (3/16 LITE PLY)
MAKE FROM SCRAP 1/4 BALSA
RIGGING FITTING NO.5
(1/8 BALSA) F-5
CUT HERE FOR F-5A
COWL SEPERATES HERE
(1/8 LITE PLY) F-6
CUT HERE FOR F-6-A
1/32 PLY DOUBLER
F-14 1/8 BALSA FUSELAGE SIDES
F-19 (ON BACKSIDE)
3/8" x 1 1/8" x 3 5/8" WING HOLD-DOWN BLOCK GLUED TO BACKSIDE OF F-6
(1/8 BALSA) F-7
(1/8 BALSA) F-8
(1/8 BALSA) F-9
F-14 1/8 BALSA FUSEL. SIDES
STAB
Gordon Isreal's REDHEAD racer
1/4 scale
65" wingspan
47" length
12" chord
.45-.65 engine
SHEET 1

ARIEL #26



Gordon Isreal's REDHEAD racer

SHEET 2



AIRPLANE FRONT VIEW

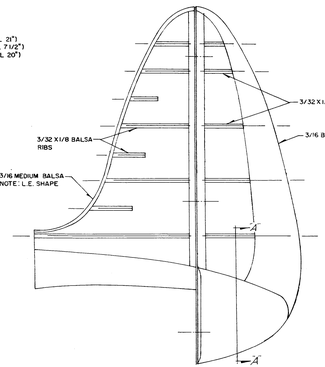
NOTE: REGISTRATION NUMBERS ARE BLACK & APPEAR ON UPPER RIGHT WING PANEL, LOWER LEFT WING PANEL, & BOTH SIDES OF FIN & RUDDER IN POSITION SHOWN.

THE SCALLOP ON L.E. OF WING, STAB, FIN; NOSE BOWL; THE WORD "REDHEAD"; TRIM ON TOP OF TURTLE DECK FROM HEADREST TO FIN & TRIM ON WHEEL PANTS ARE ALL RED. COWL IS ALUM. BRACE WIRES & FITTINGS ARE SPRAYED WITH RUST-O-LEUM SILVER. SPREADER BARS BETWEEN LANDING & FLYING WIRES ARE MAHOGANY.

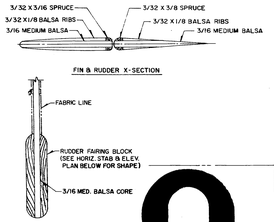
RIGGING AND PAINTING DIAGRAM
(THIS DRAWING - NO TO SCALE)

AIRCRAFT DATA

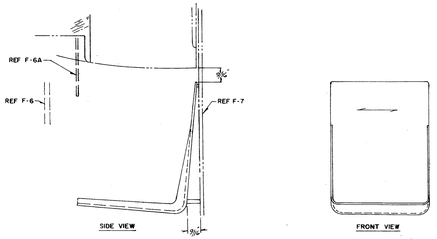
FULL SIZE A/C	MODEL (1/4 SCALE)
WING SPAN = 21'-6"	64 1/2"
LENGTH = 18'-6"	47 1/2"
WING CHORD = 4'-0"	12"
STAB SPAN = 7'-0"	21 1/2" (ACTUAL 21")
" CHORD = 2'-6"	7 1/4" (ACTUAL 7 1/2")
HEIGHT = 6'-8" (TO TOP OF NOSE BOWL)	17 5/8" (ACTUAL 20")
MAX. SPEED = 221.7 MPH	55.425 MPH



FIN & RUDDER PLAN



SECTION A-A



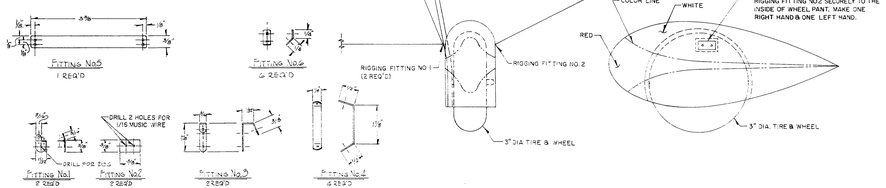
SEAT IS SHOWN FULL SIZE

97

RACING NUMBER IS SHOWN FULL SIZE
(NOTE: NUMBER APPEARS ON BOTH SIDES OF FUSELAGE ONLY - IN BLACK.)

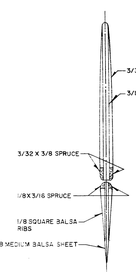
NR111V

REGISTRATION LETTERS AND NUMBERS ARE SHOWN FULL SIZE - THEY APPEAR ON THE UPPER RIGHT WING PANEL SURFACE, LOWER LEFT WING PANEL SURFACE AND ON BOTH SIDE OF FIN AND RUDDER AS SHOWN ON RIGGING & PAINTING DIAGRAM, THIS SHEET, AND ON FUSELAGE SIDE VIEW DRAWING, SHEET 1.

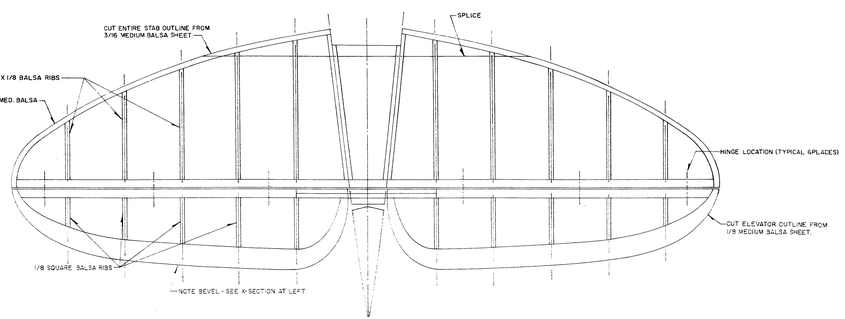


RIGGING FITTING DETAILS

NOTE: FITTINGS NO'S 1 THRU 6 ARE MADE FROM 1/32 THK BRASS.



STAB & ELEV. X-SECTION



HORIZONTAL STABILIZER AND ELEVATOR PLAN

Gordon Isreal's REDHEAD racer

1/4 scale
65" wingspan
47" length
12" chord
.45-.65 engine

SHEET 3