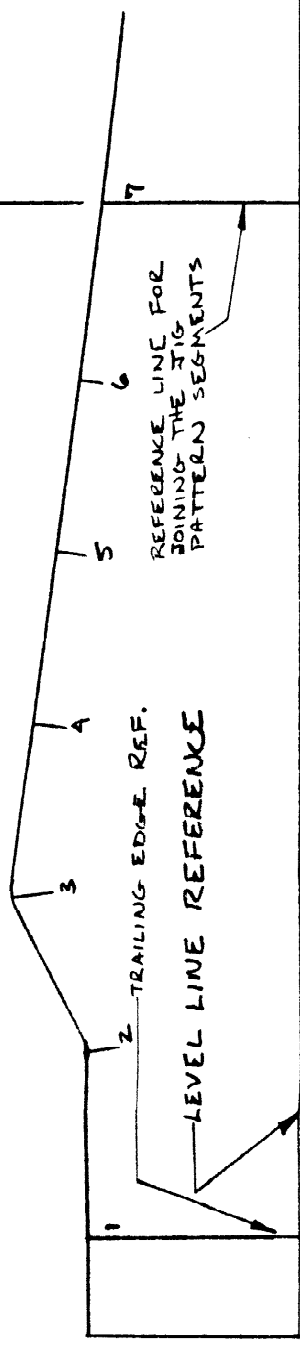
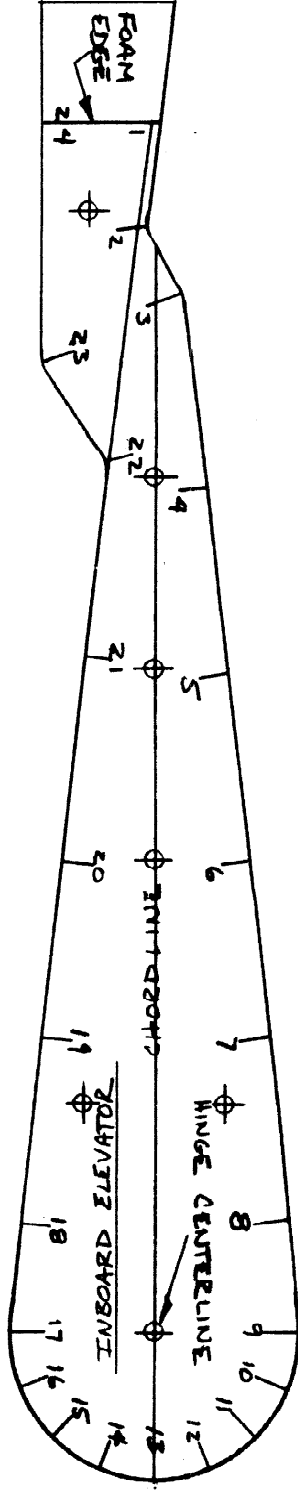
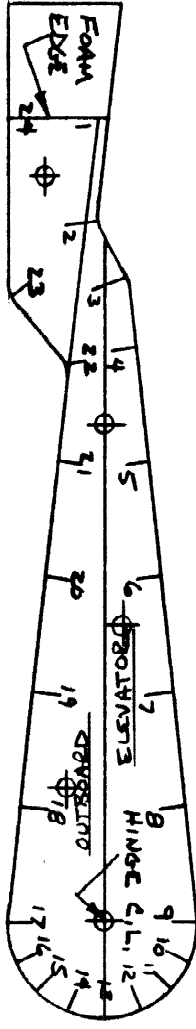
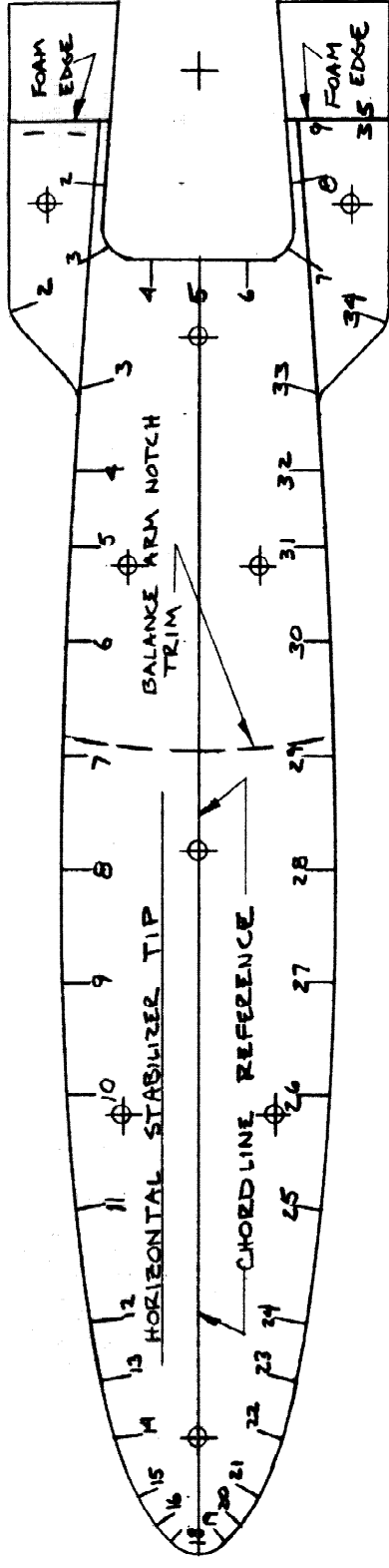
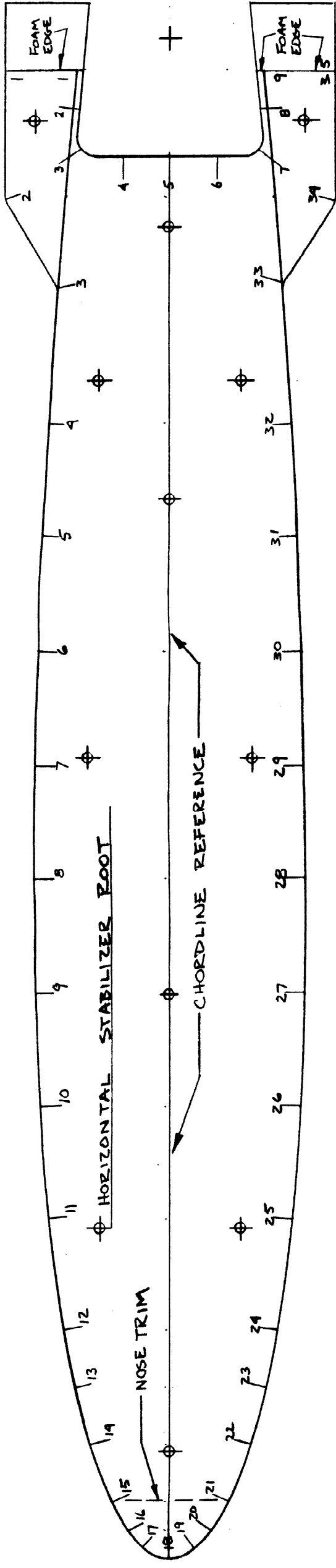


A hand-drawn plan view of a boat hull, oriented vertically. The hull is elongated with a rounded bow at the top and a tapered stern at the bottom. A central longitudinal line runs the length of the hull. Along this line, 19 points are marked with a circle containing a cross (⊕). On the left side of the hull, 12 points are numbered 4 through 15, and on the right side, 15 points are numbered 16 through 34. Two horizontal reference lines are drawn across the hull: the upper one is labeled 'FRONT SPAR TRIM LINE' with an arrow pointing to it, and the lower one is labeled 'LEVEL LINE' with an arrow pointing to it. The hull's outline is defined by a smooth curve on the left and a slightly more angular curve on the right.

JOIN THE TWO PATTERN PARTS
USING THE LEVEL LINE AND
THE 6-32 VERTICAL FOR
ALIGNMENT.

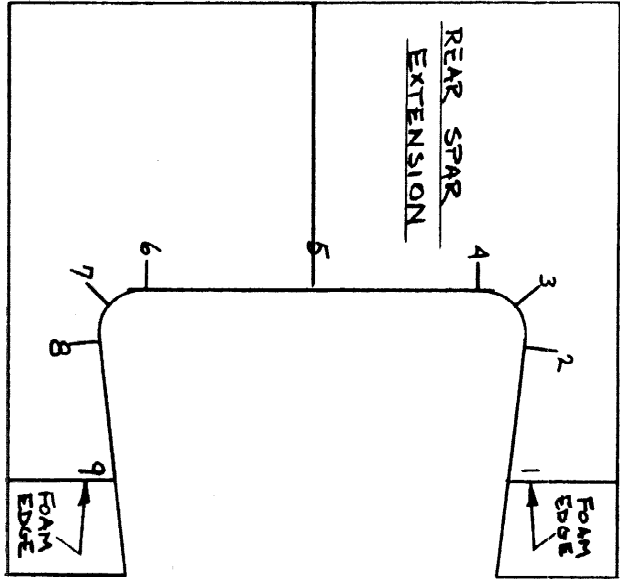
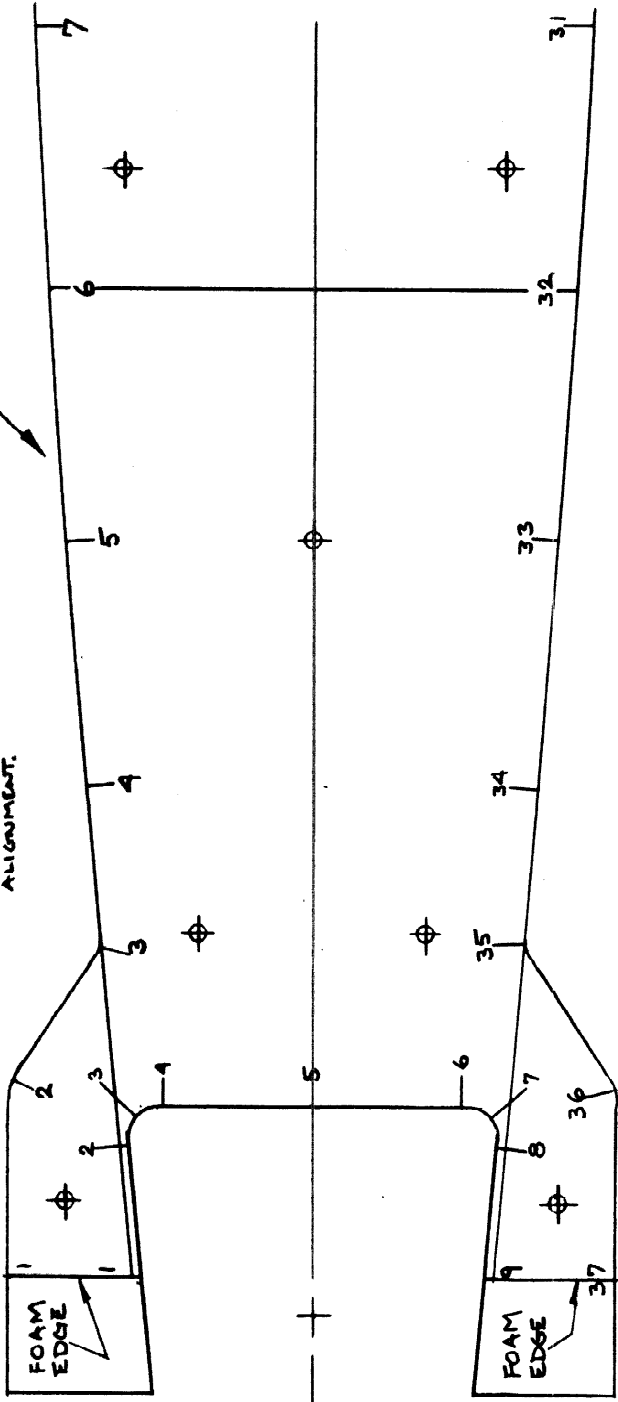


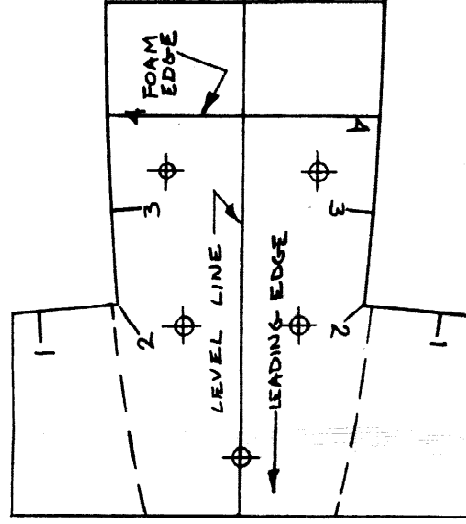
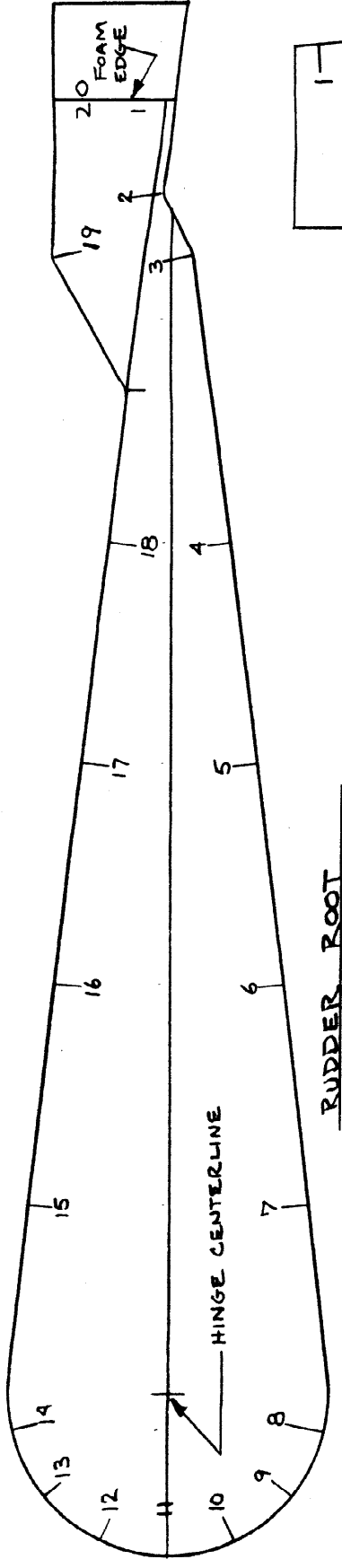
Diagram illustrating the hull structure and component numbering for a boat. The hull is symmetrical about a central vertical axis.

Component Numbering:

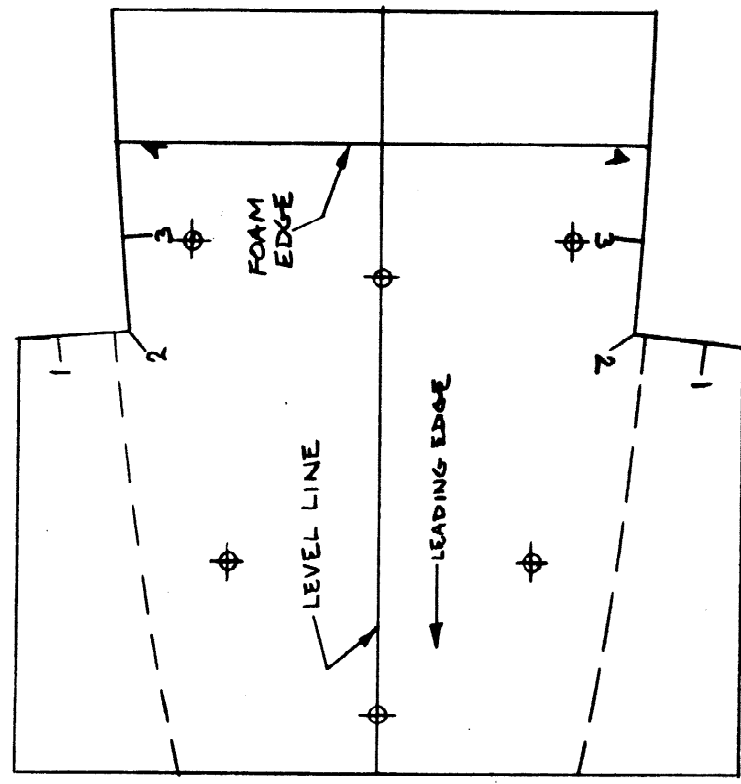
- 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36

Key Features and Labels:

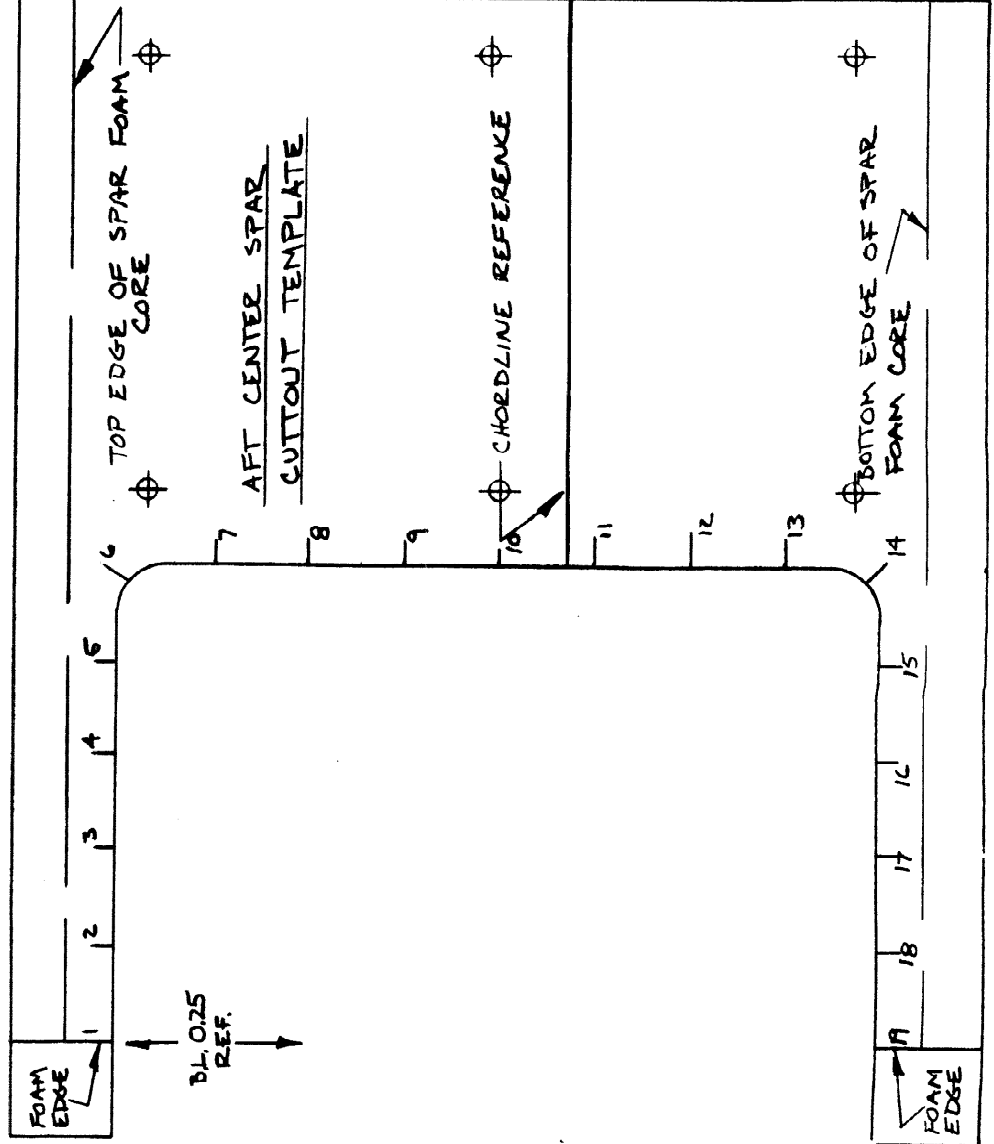
- FRONT SPAR TRIM LINE:** Indicated on the left side of the hull.
- LEVEL LINE:** Indicated on the right side of the hull.
- SMALL FINISHING NAIL (FOUR PENNY):** Located at the stern (bottom).
- HINGE:** Located near the stern (bottom).
- CENTERLINE:** Indicated near the stern (bottom).
- FOAM EDGE:** Indicated at the bow (top) and stern (bottom).



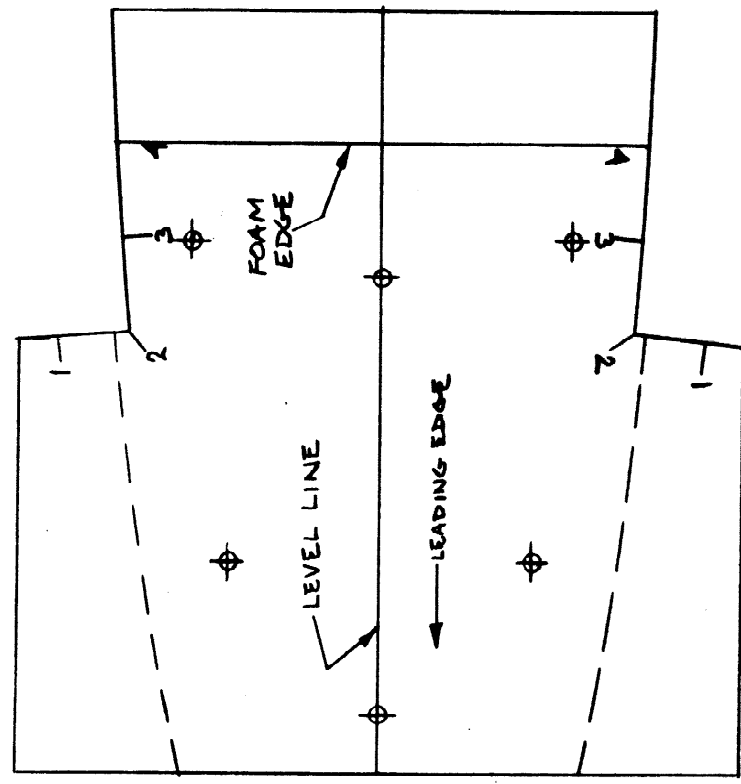
V.S. FRONT SPAR TRIM - TIP



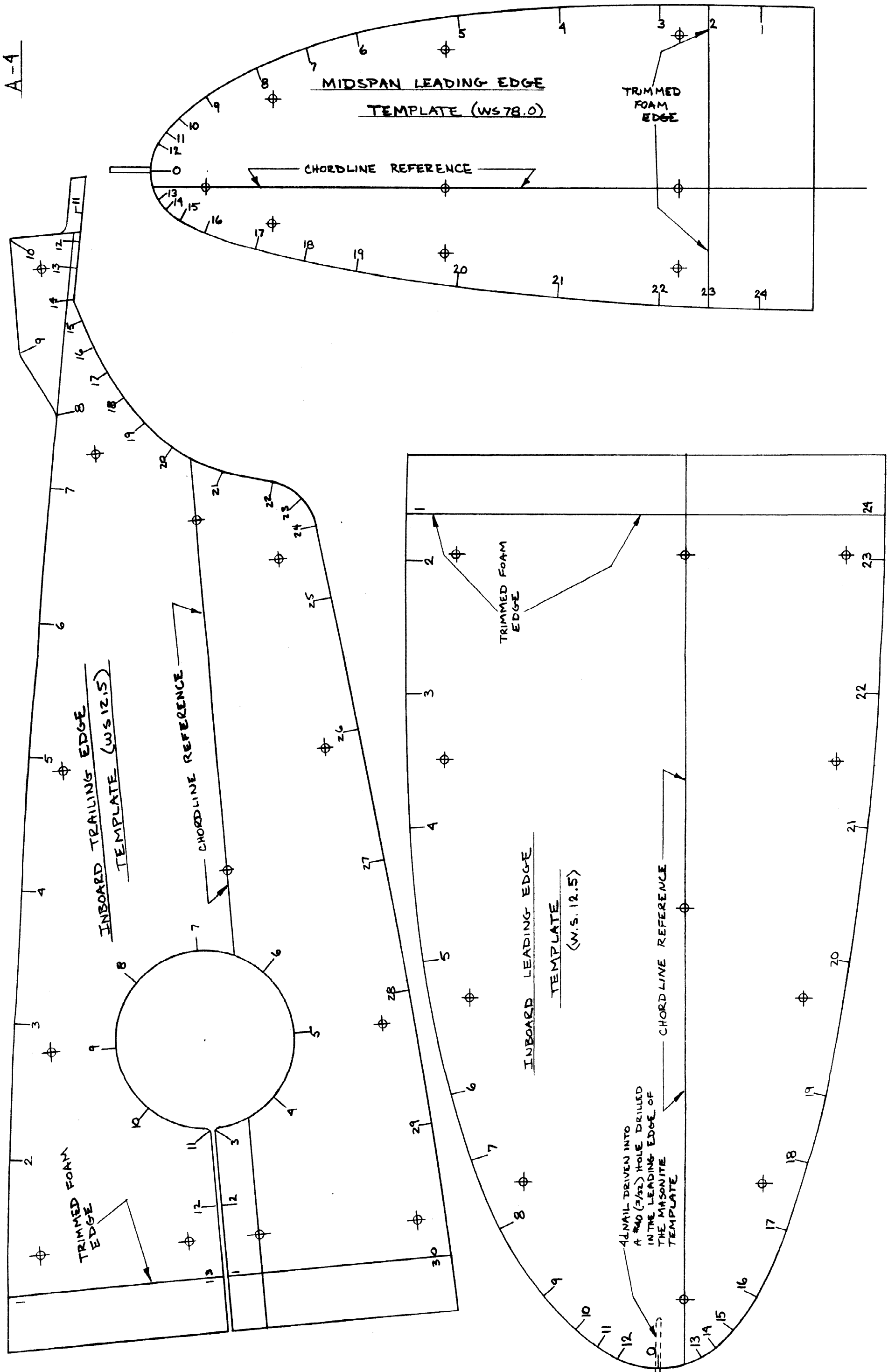
V.S. FRONT SPAR TRIM TEMPLATE - ROOT

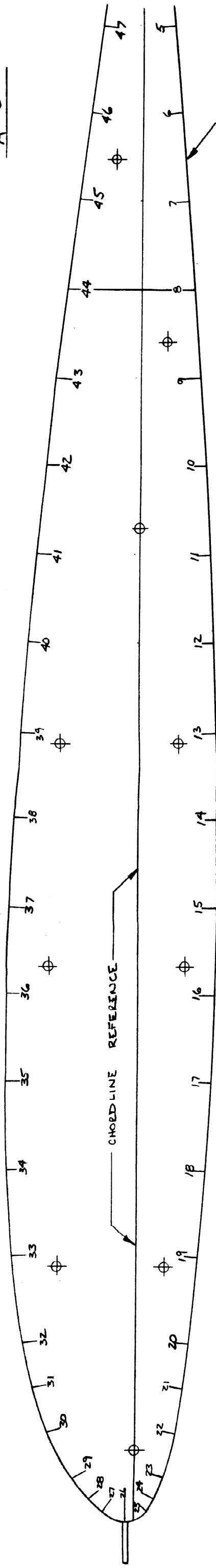


V.S. FRONT SPAR TRIM - TIP

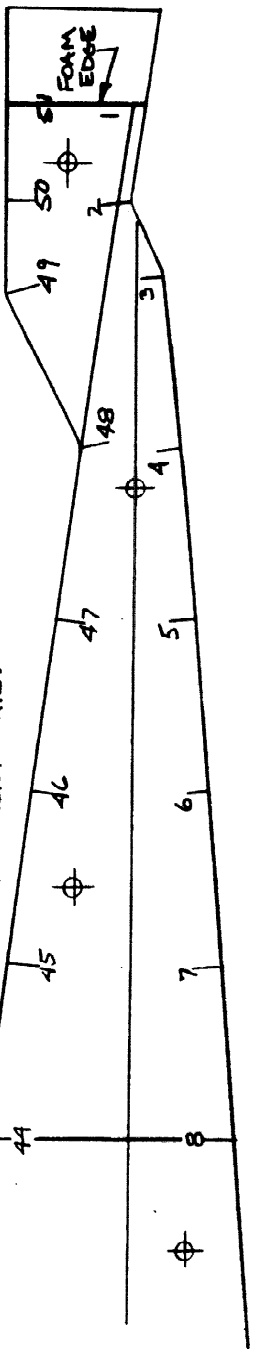


V.S. FRONT SPAR TRIM TEMPLATE - ROOT

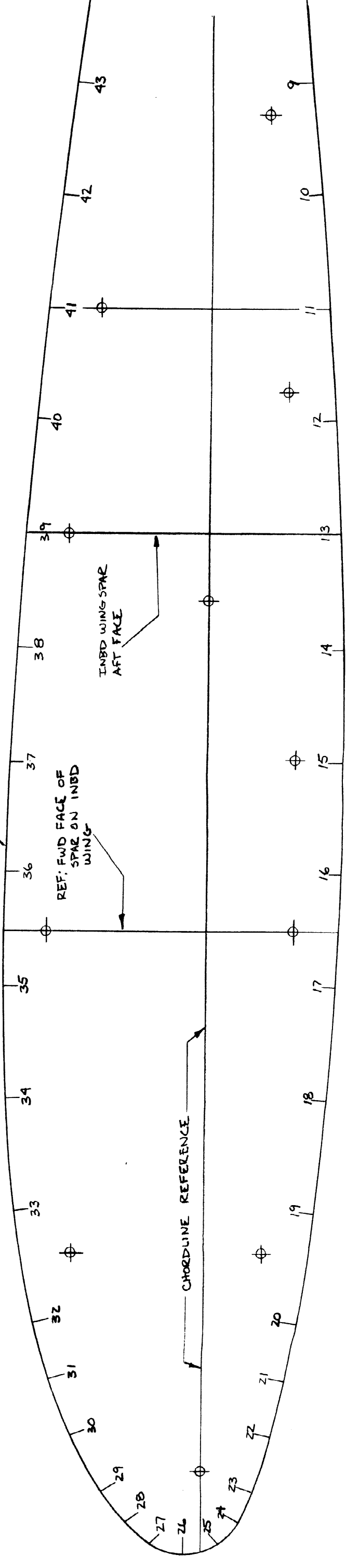


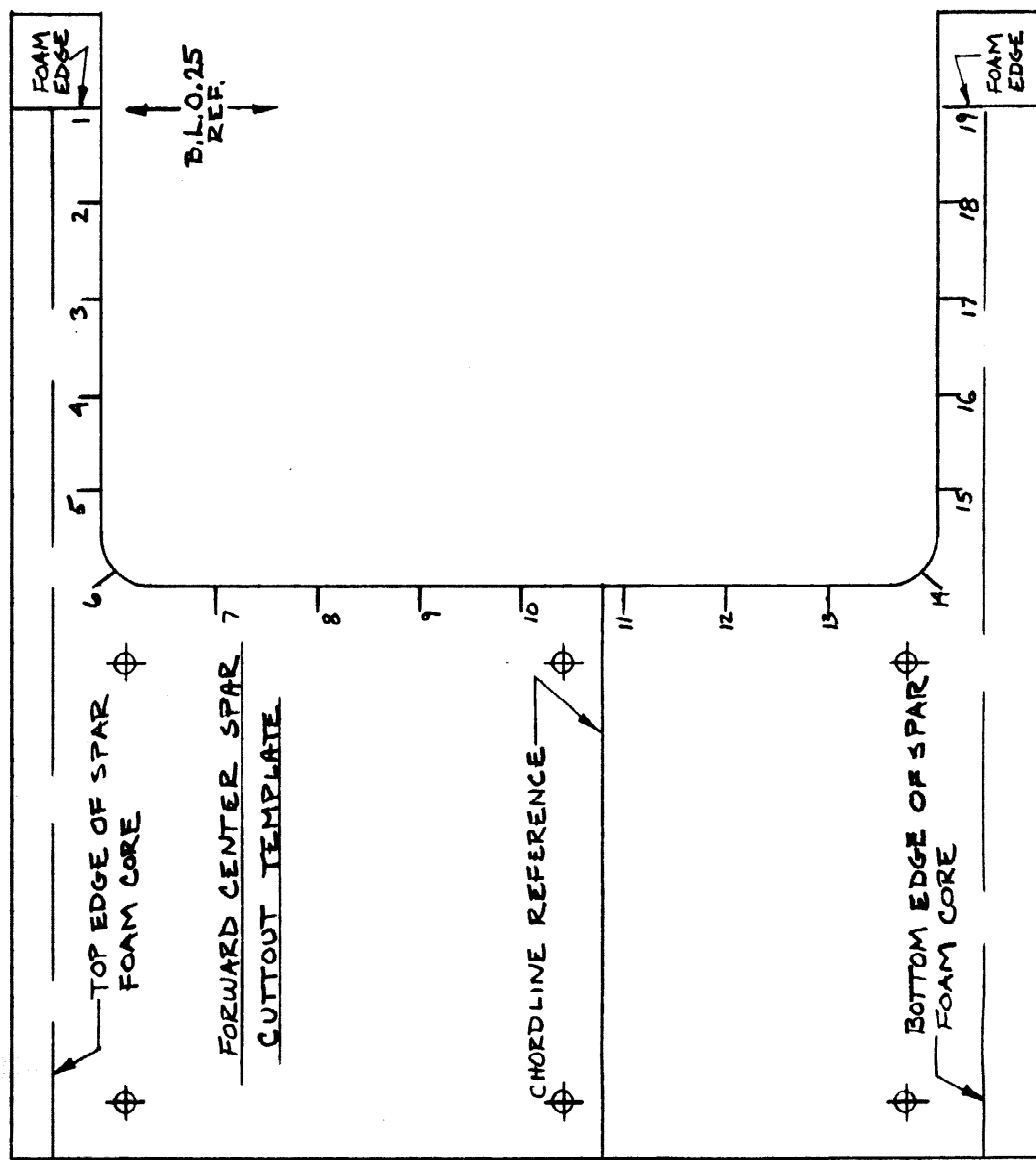
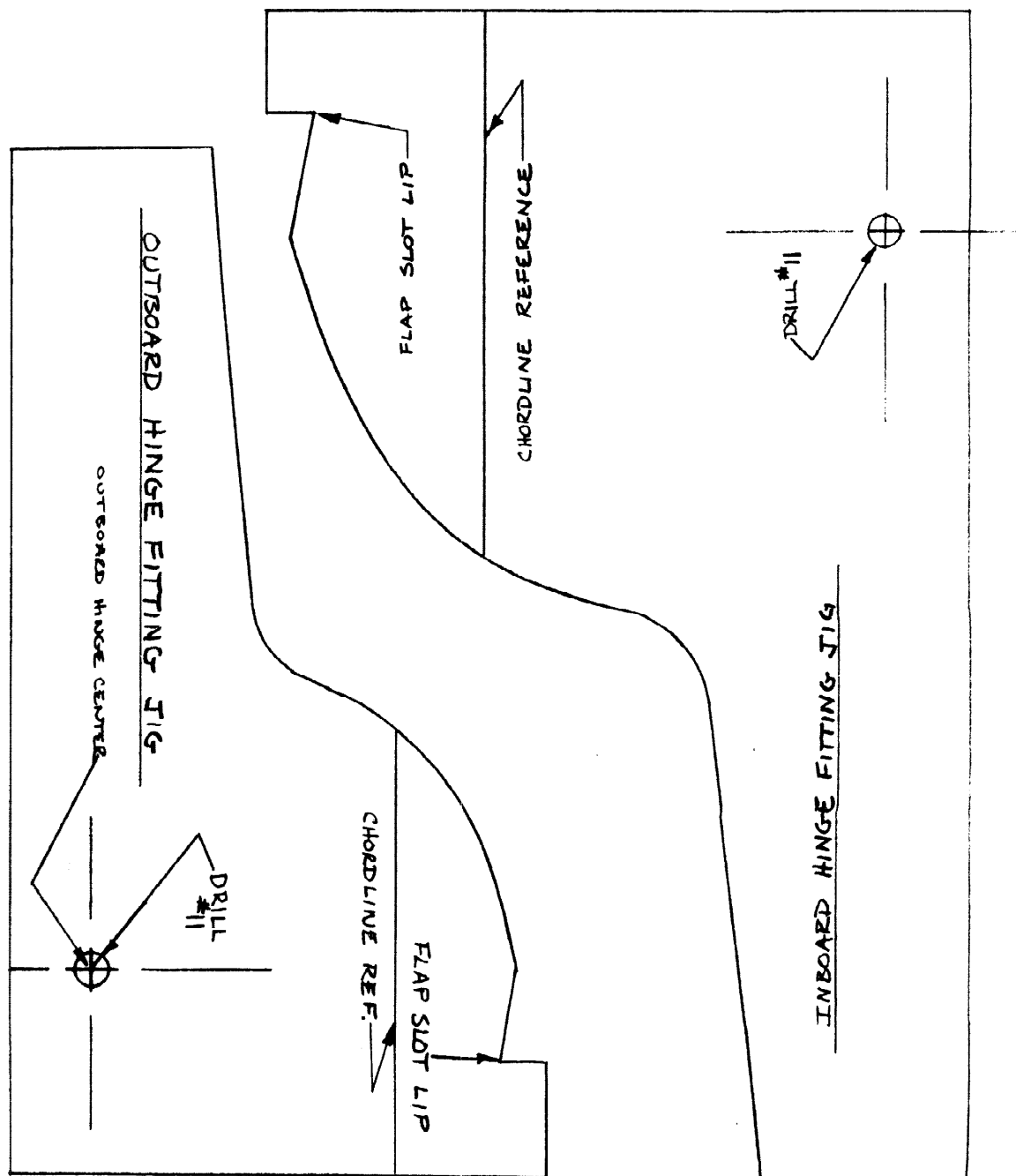
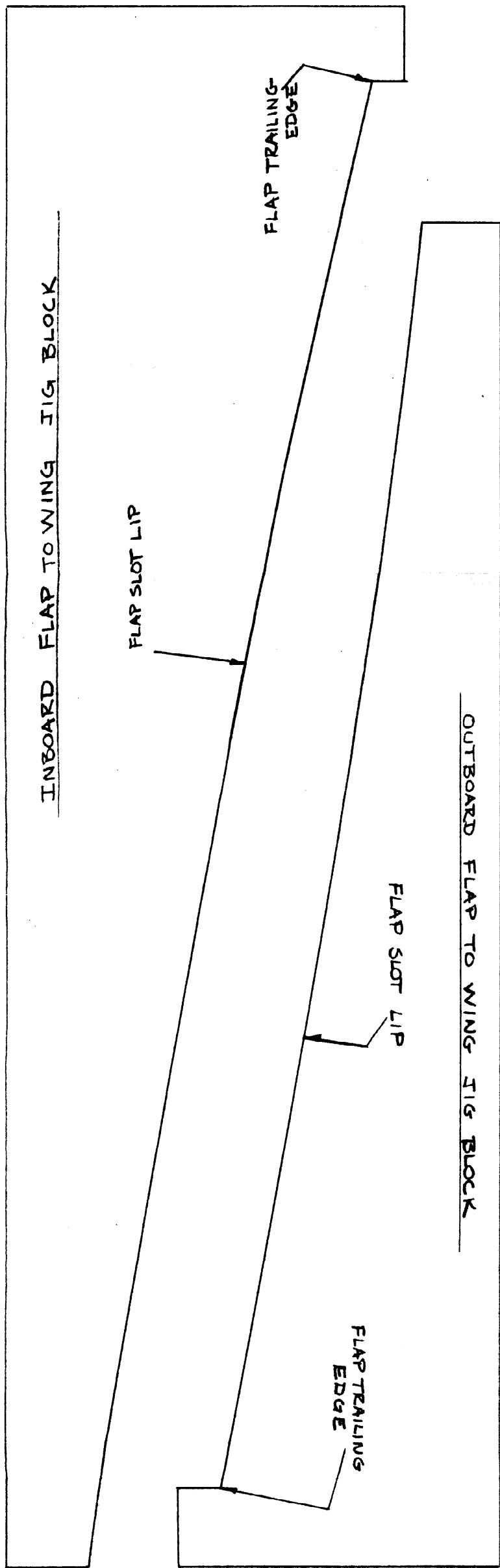


WING TIP TEMPLATE (WS 120.0)
JOIN THE TWO PATTERN SEGMENTS USING THE
CHORDLINE AND 49-8 VERTICAL AS AN
ALIGNMENT AID.



OUTBOARD MIDSPAN WING TEMPLATE (WS 780)
JOIN THE TWO SEGMENTS ALONG THE 41-11 VERTICAL





A-7

JIG PATTERN
ASSEMBLY
REFERENCE LINE

VERTICAL MARKER LINE

MIDSPAN-OUTBOARD WING JIG PATTERN

LEVEL LINE

TRAILING EDGE REF.

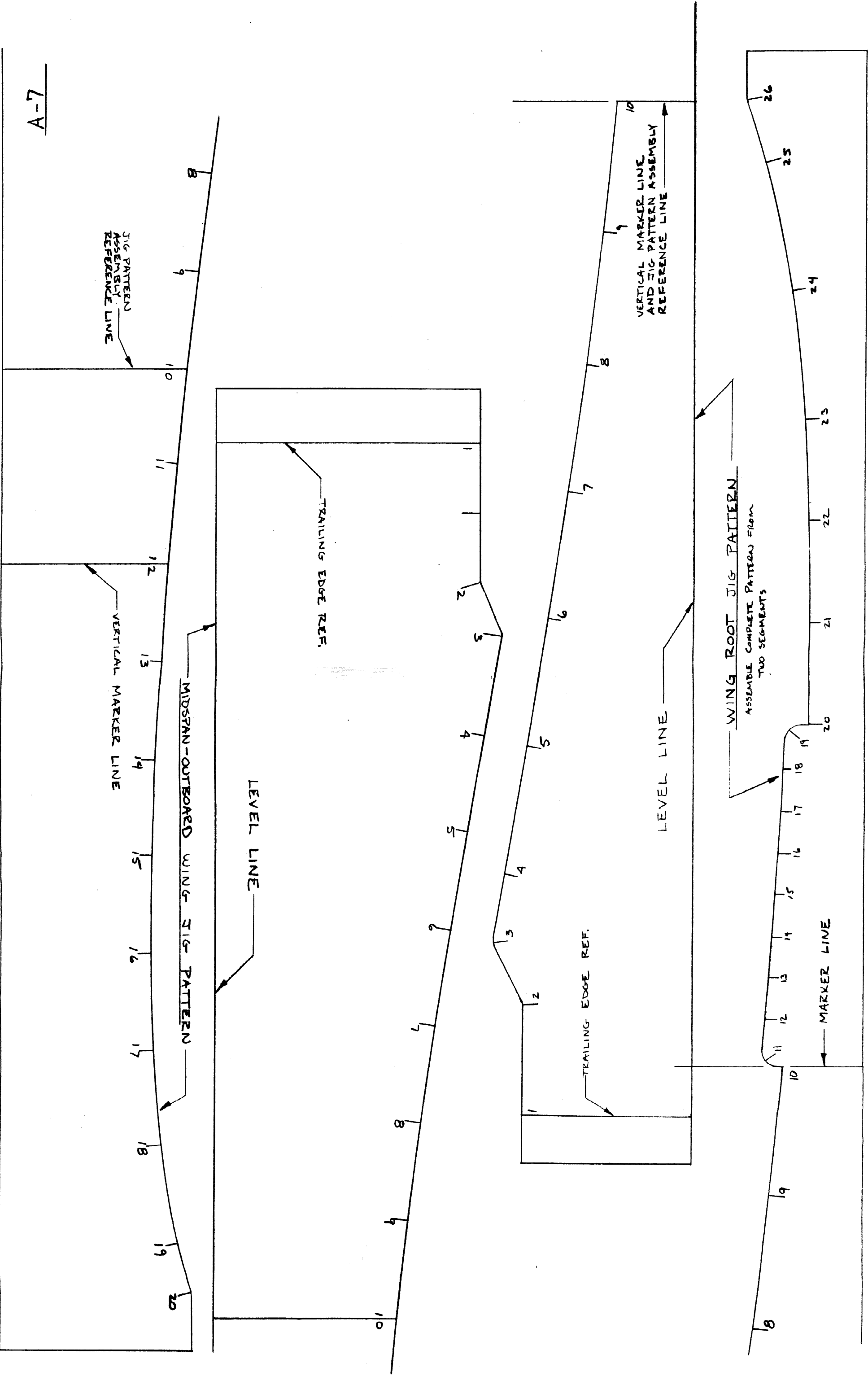
VERTICAL MARKER LINE
AND JIG PATTERN ASSEMBLY
REFERENCE LINE

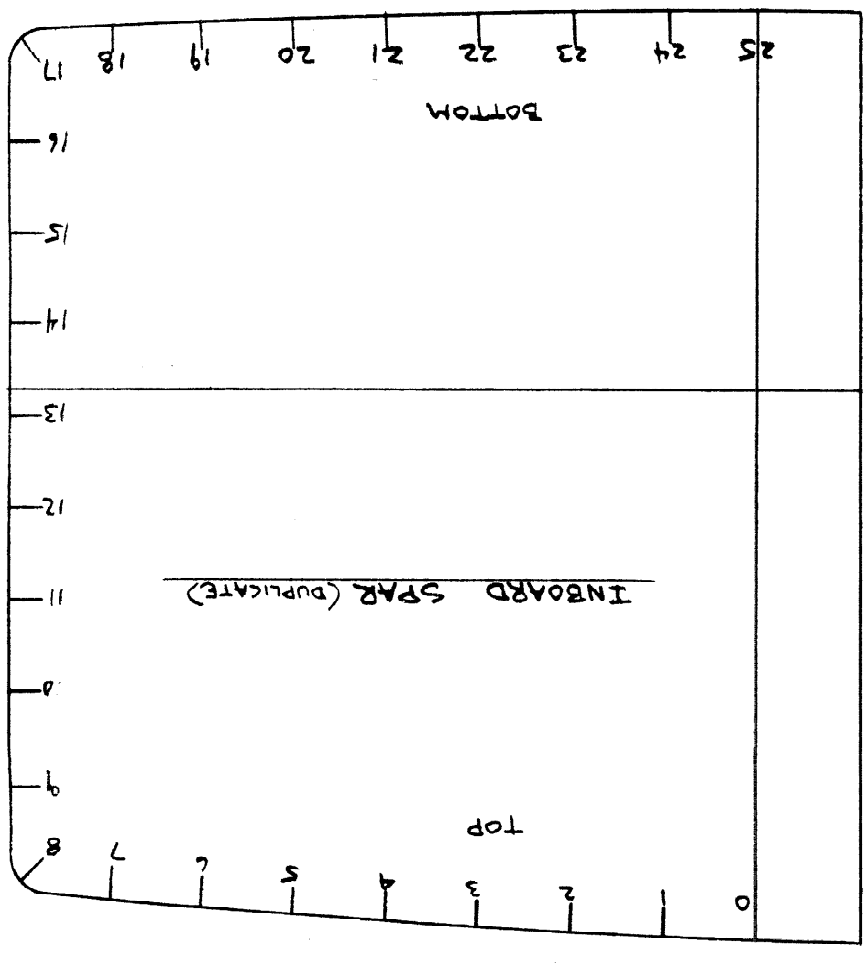
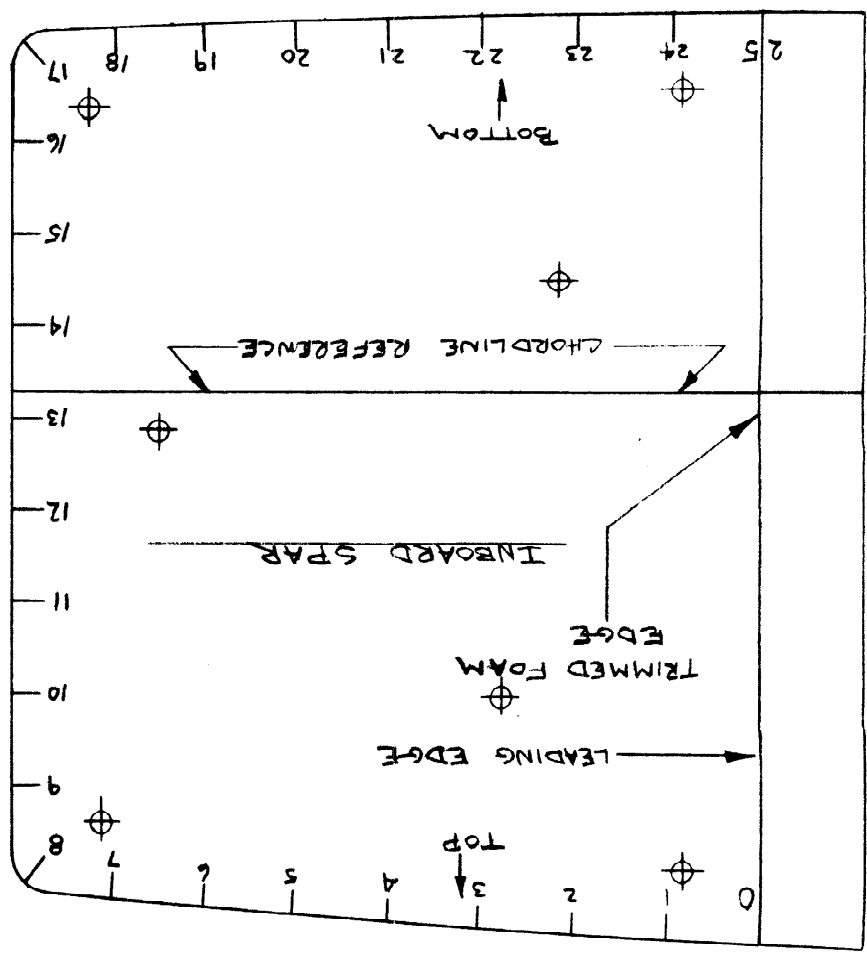
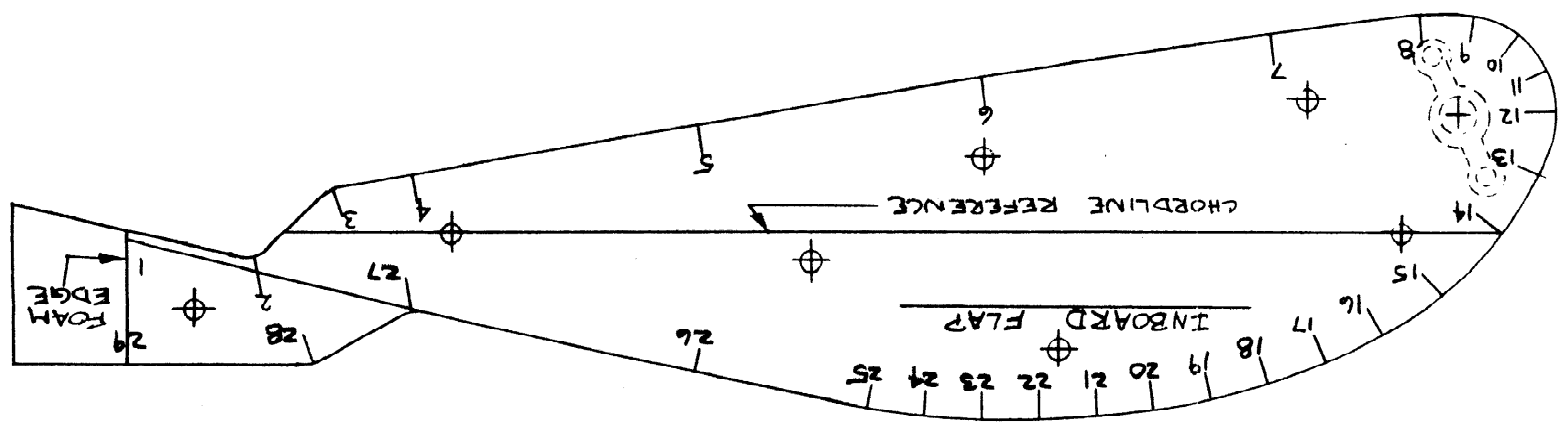
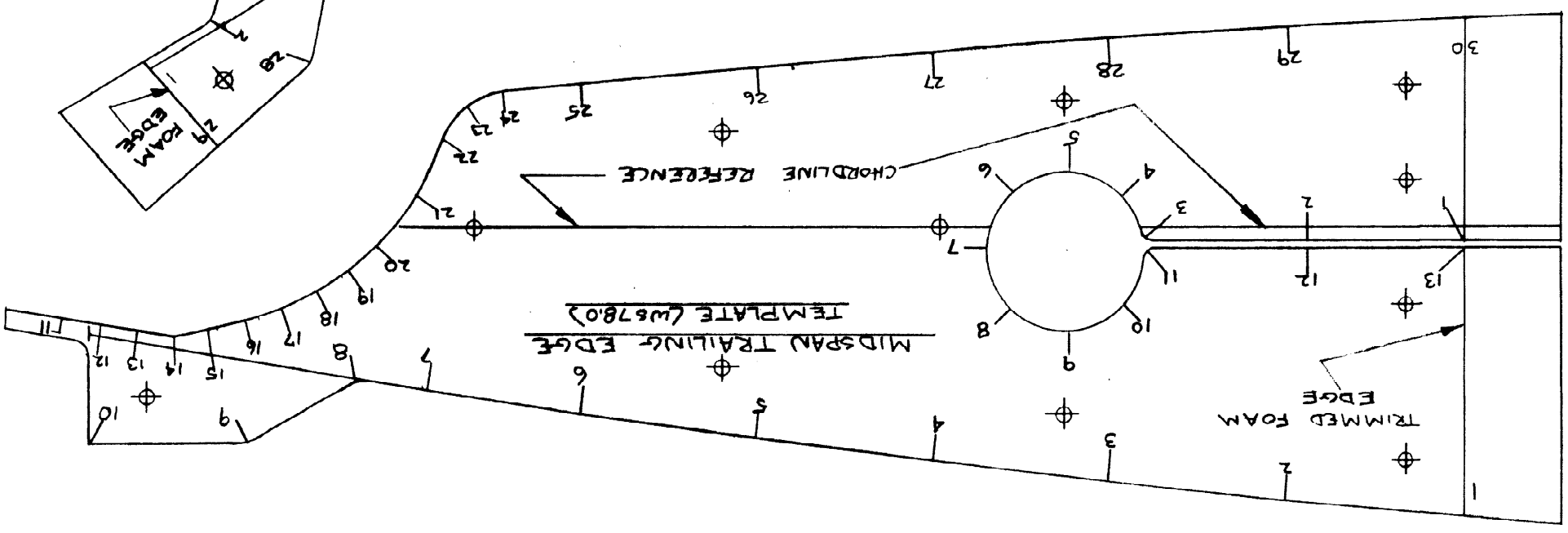
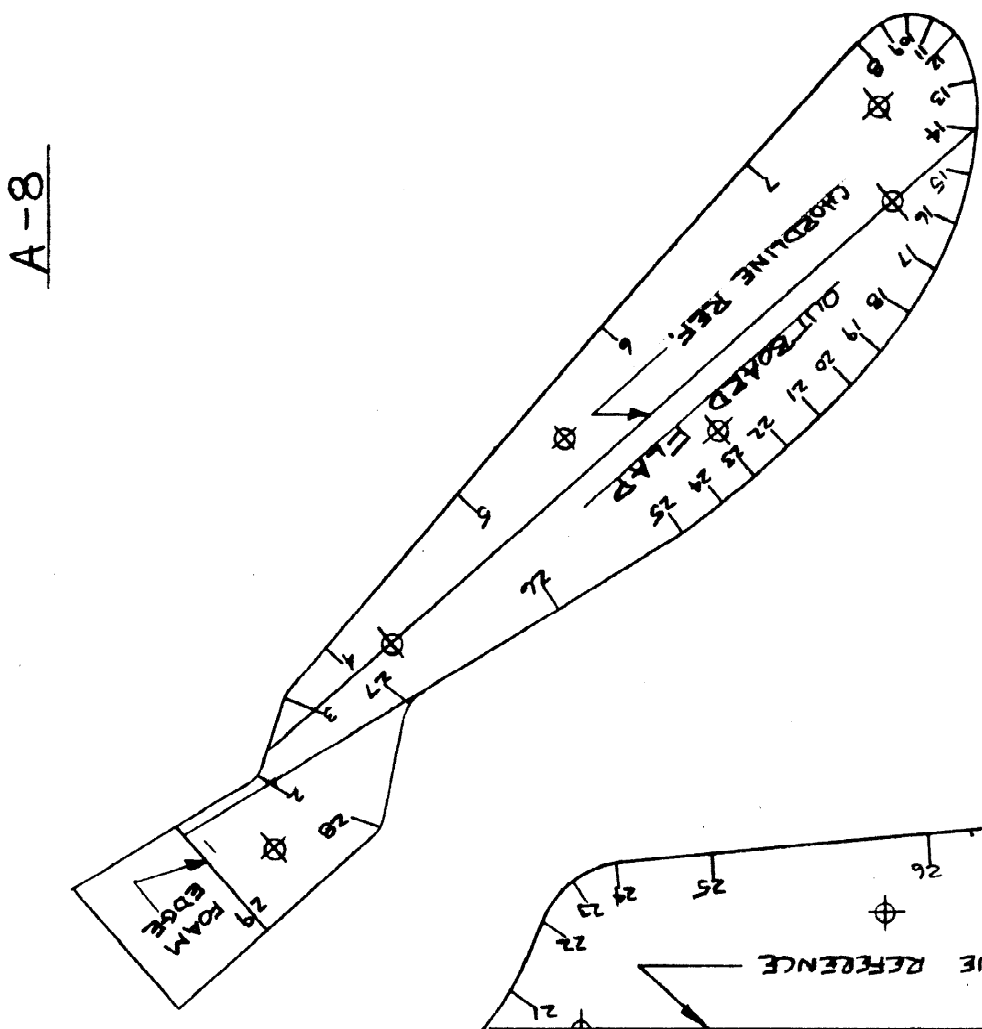
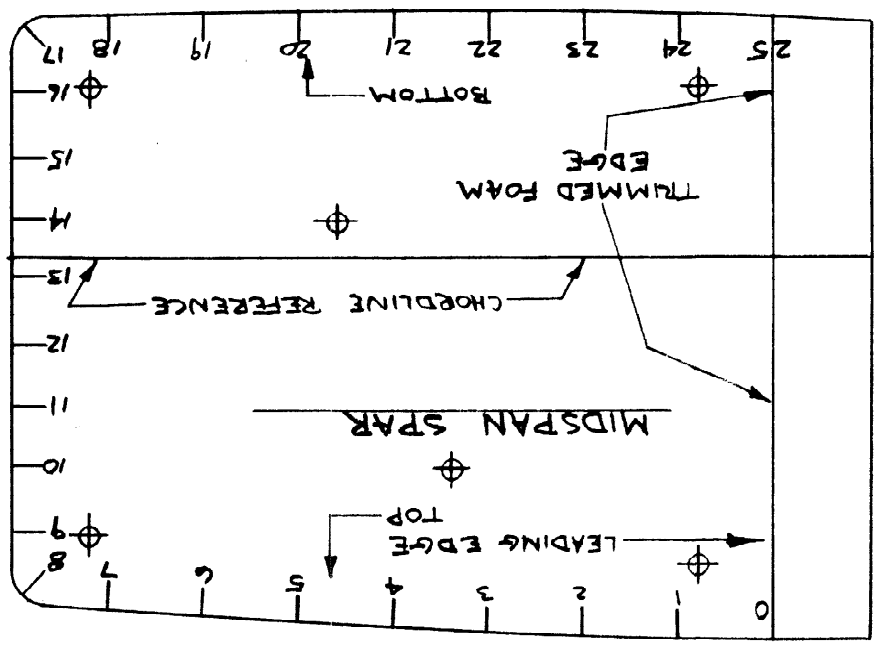
LEVEL LINE

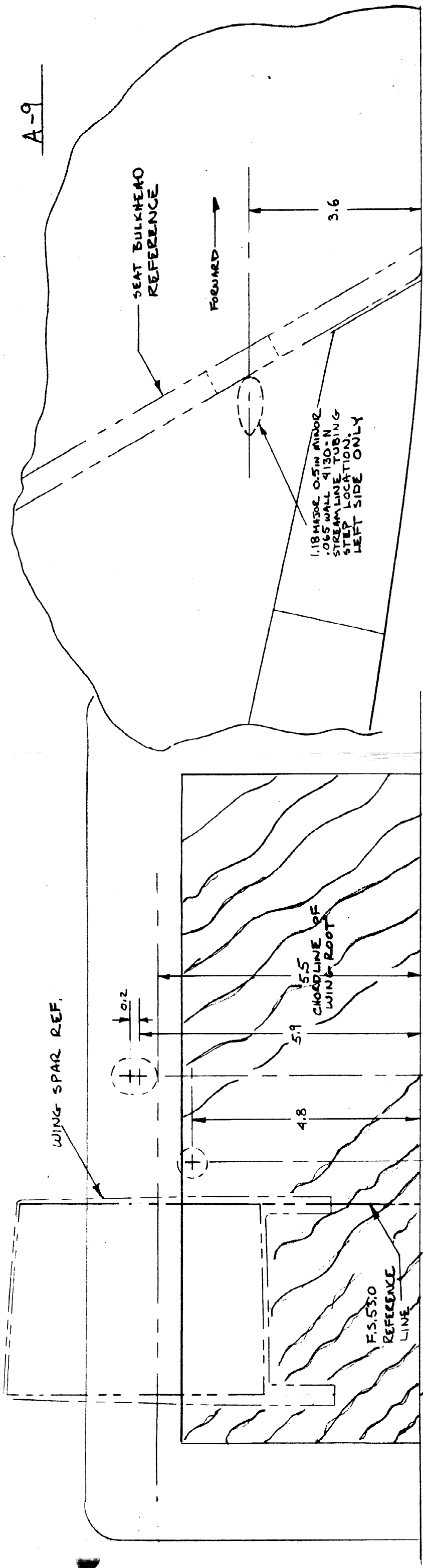
WING ROOT JIG PATTERN

ASSEMBLE COMPLETE PATTERN FROM
TWO SEGMENTS

MARKER LINE

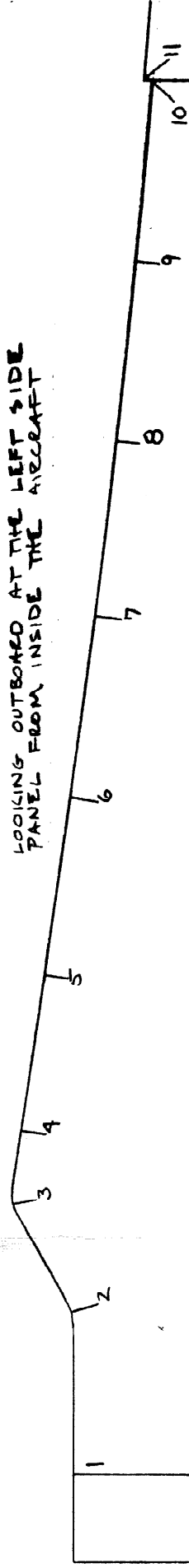






COCKPIT ENTRY STEP LOCATION

LOOKING OUTBOARD AT THE LEFT SIDE PANEL FROM INSIDE THE AIRCRAFT



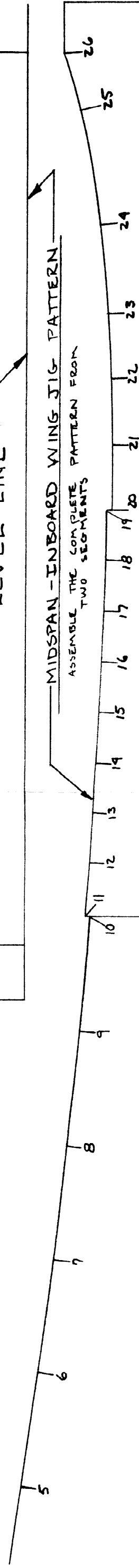
TRAILING EDGE REF.

VERTICAL MARKER LINE AND JIG PATTERN ASSEMBLY REFERENCE LINE

LEVEL LINE

MIDSPAN-INBOARD WING JIG PATTERN

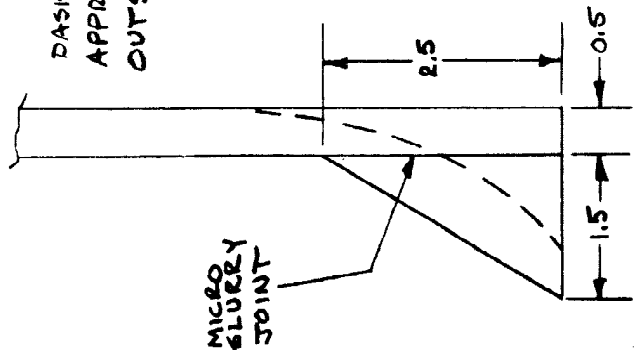
ASSEMBLE THE COMPLETE PATTERN FROM TWO SEGMENTS



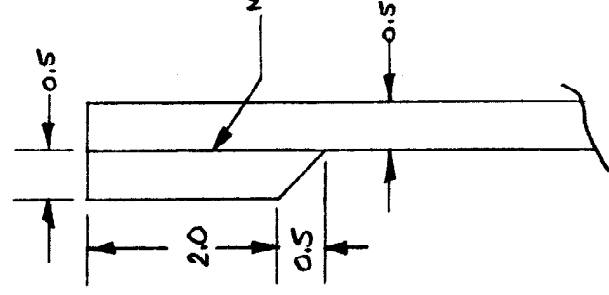
MARKER LINE

WING/GEAR ATTACH AREA (R/H SHOWN)
MARK LOCATIONS OF FLAP TORQUE TUBE ANDAILERON PUSHROD HOLE AS SHOWN.

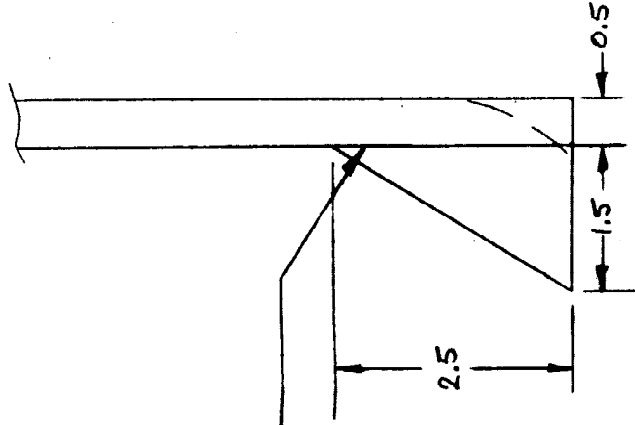
DASHED LINE INDICATES
APPROXIMATE FINISHED
OUTSIDE CONTOUR



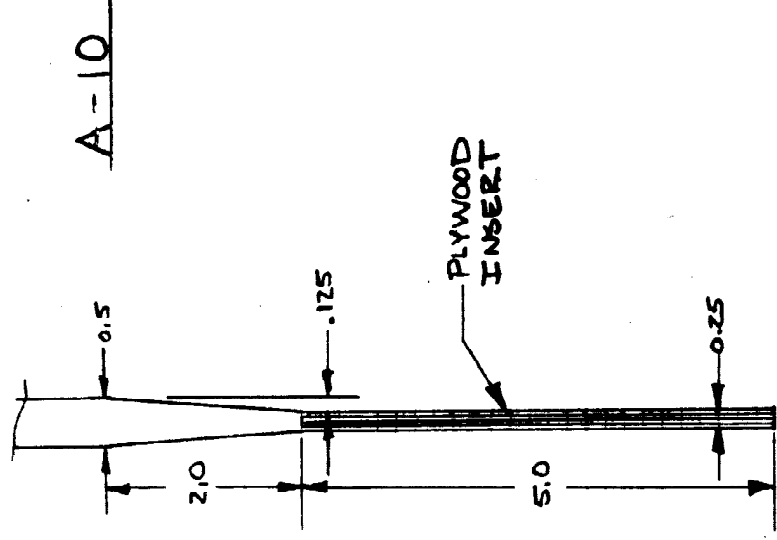
SECTION A-A
TYPICAL LOWER TAILCONE
CORNER BLOCK
ALL 2 LB/FT³ BLUE
STYROFOAM



SECTION B-B
TYPICAL UPPER CORNER
FOAM BLOCK
(2 LB/FT³ STYROFOAM)

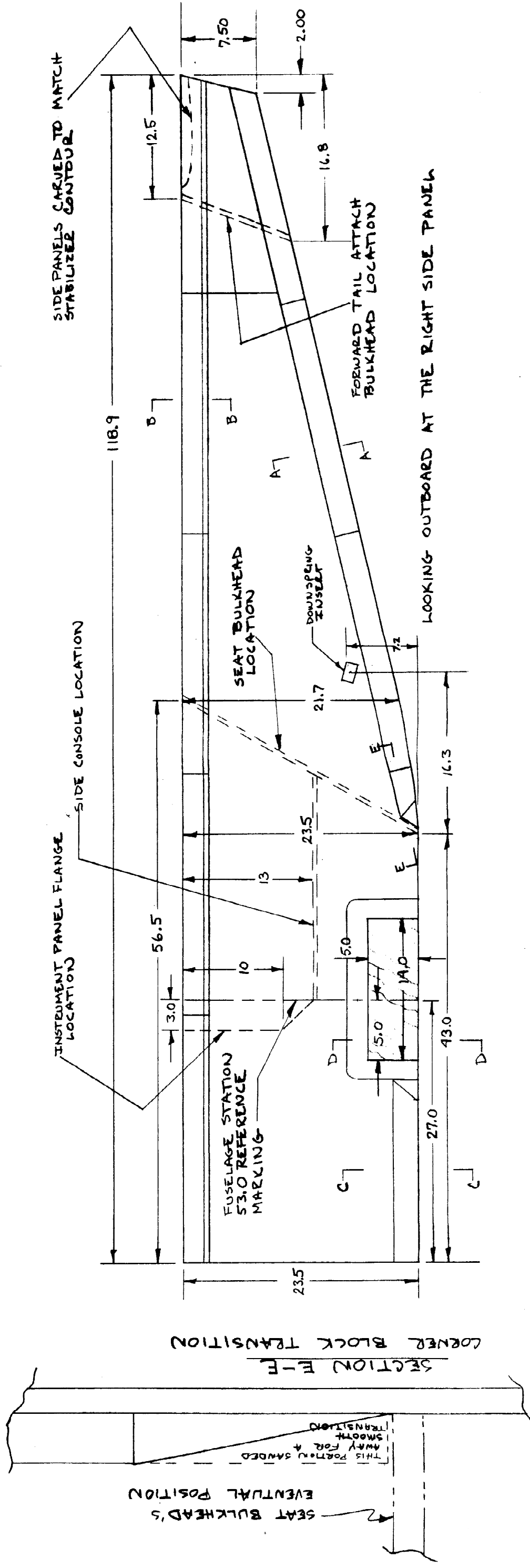


SECTION C-C
TYPICAL LOWER FORWARD
CORNER BLOCK
(2 LB/FT³ STYROFOAM)



SECTION D-D
WING/GEAR ATTACH
INSERT

FUSELAGE SIDE PANEL FOAM CORE BUILDUP



DAS APP OUT

2.5

0.5

1.5

MICRO SLURRY JOINT

A schematic diagram of a microslurry joint. It shows a horizontal bar with a vertical section cut on the left. The horizontal bar has a total width of 0.5. The vertical section cut has a height of 2.0. The joint is labeled "MICRO SLURRY JOINT". The dimensions 0.5, 2.0, 0.5, and 0.5 are indicated with arrows.

Diagram illustrating the dimensions for the shear stress calculation in a beam-column joint. The joint width is 2.5, the column width is 1.5, and the slab thickness is 0.5.

A-10TW

Technical drawing of the right side panel of an aircraft fuselage, showing dimensions and structural features. The drawing is oriented vertically with the fuselage axis running from top to bottom.

Dimensions (inches):

- Overall length: 118.9
- Top section length: 12.5
- Top section width: 7.50
- Top section offset: 2.00
- Top section angle: 16.8
- Seat bulkhead location offset: 21.7
- Downspring inset offset: 7.2
- Forward tail attach bulkhead location offset: 16.3
- Instrument panel flange location offset: 56.5
- Side console location offset: 13
- Fuselage station 53.0 reference marking offset: 10
- Bottom section width: 3.0
- Bottom section length: 23.5
- Bottom section offset: 27.0
- Bottom section width: 43.0
- Bottom section offset: 20
- Bottom section width: 15.0
- Bottom section offset: 5.0

Structural Features and Labels:

- SEAT BULKHEAD LOCATION
- DOWNSPRING INSET
- FORWARD TAIL ATTACH BULKHEAD LOCATION
- INSTRUMENT PANEL FLANGE LOCATION
- SIDE CONSOLE LOCATION
- FUSELAGE STATION 53.0 REFERENCE MARKING

Viewing Direction: LOOKING OUTBOARD AT THE RIGHT SIDE PANEL

