SK-17988

HORIZONTAL TAIL

CHORDWISE AREA	1285 SQ FT
PROJECTED AREA	1272.5 SQ.FT.
ASPECT RATIO (PROJ PLANE)	4.42
TAPER RATIO	3.1
AREA OF VERT PROJ	17.89 SQ FT
ASPECT RATIO OF VERT PROJ	3.11
N.A.C.A. SECTION	00II-64 ROOT, 0009-64 TIP

ELEVATORS

TOTAL AREA (CHORD PLANE)	54.04 SQ FT SLAB SIDED ELEVATOR
AREA AFT OF HINGE	41.2 SQ FT (40%)
BALANCE AREA	12.84 SQ FT (24.7%)
MEAN CHORD AFT OF HINGE	2.01
MOVEMENT	20° UP, 12° DOWN
TAB MOVEMENT	18.5° UP, 35° DOWN
TAB AREA (ONE SIDE)	9.1 SQ FT

VERTICAL TAIL

TOTAL AREA	66.4 SQ FT
TOTAL RUDDER AREA	34.49 SQ FT SLAB SIDED RUDDER
RUDDER AFT OF HINGE	26.27 SQ FT (45%)
BALANCE AREA	8.22 SQ FT (23.8%)
N.A.C.A. SECTION	0009-64
ASPECT RATIO	1.3
MEAN CHORD AFT OF HINGE	3.02
RUDDER MOVEMENT	±25°
TAB AREA	17.55 SQ FT.
TAB MOVEMENT	15.5° RIGHT, 15° LEFT
TAPER RATIO	2.02:1

WING

TOTAL AREA	602 SQ FT
ASPECT RATIO	7.02
TAPER RATIO	3:1
50.68% LINE STRAIGHT	

AILERON

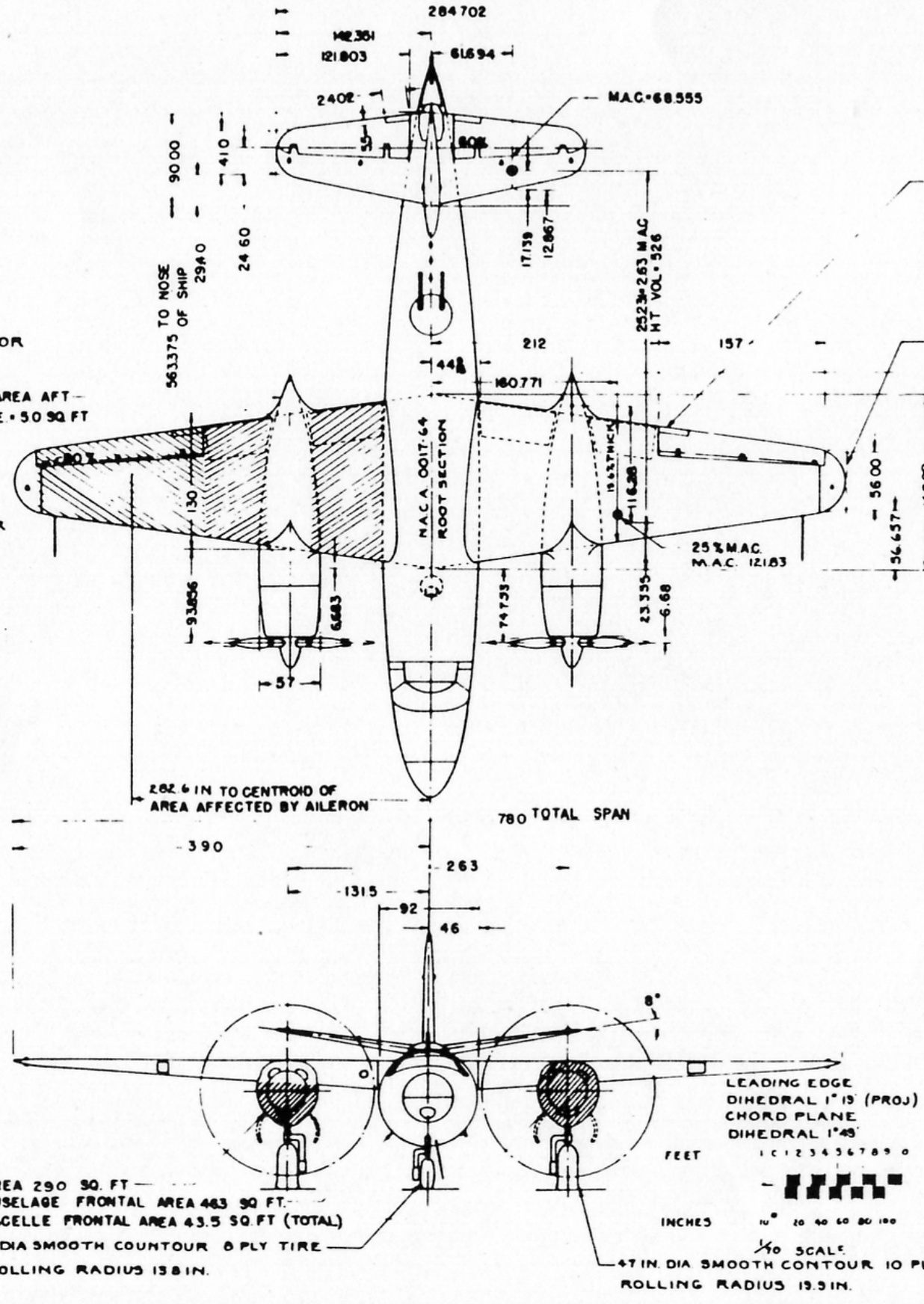
TOTAL AREA	49.4 SQ FT
AREA AFT OF HINGE	37 SQ FT (20%)
BALANCE AREA	12.4 SQ FT (25.1%)
MOVEMENT	18° UP, 15° DOWN
AREA AFFECTED BY AILERON	184 SQ.FT.
C	1.41
TAB ASPECT RATIO	7.4 SQ FT
TAB MOVEMENT	11°UP, 16° DOWN

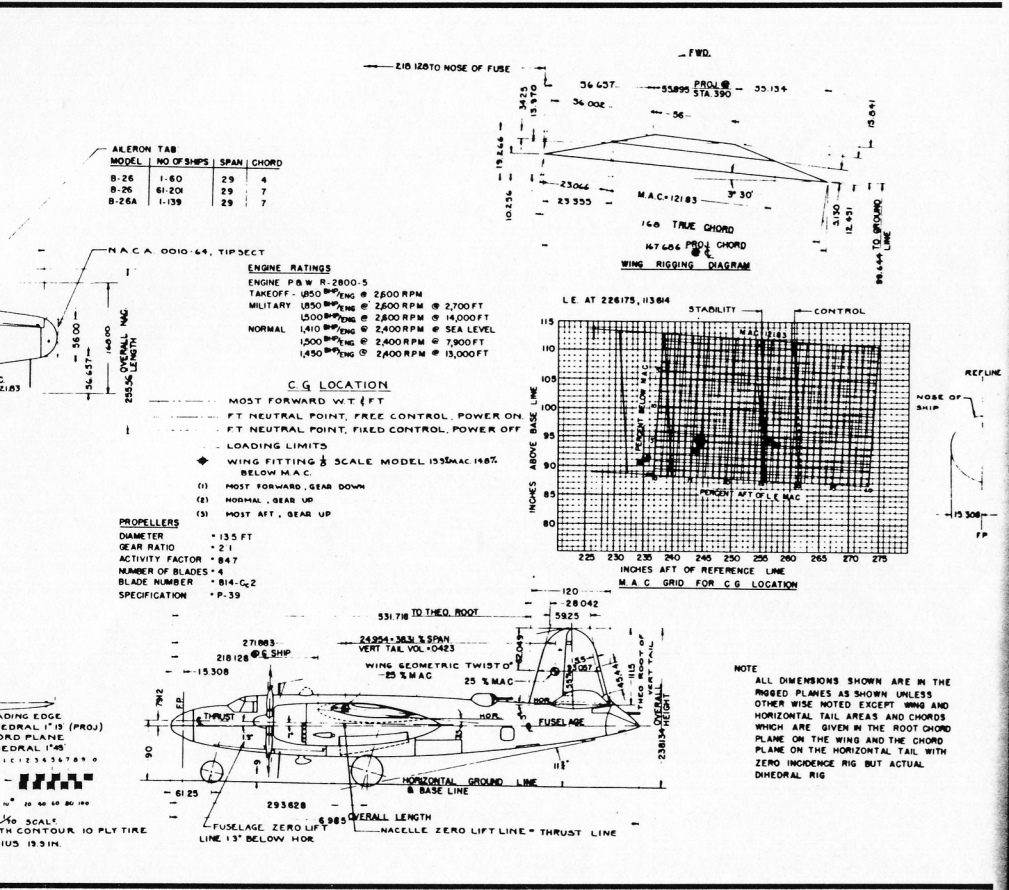
FLAPS (SPLIT SLOTTED)

TOTAL AREA	58.14 SQ. FT.
AREA AFFECTED BY FLAPS	238 SQ.FT. = 39.8% OF WING AREA
FLAP CHORD IN FLAP PLANE	32.715 INCHES

FUSELAGE

PLAN AREA	337 SQ.FT.
SIDE AREA	360 SQ.FT.





NOTE

ALL DIMENSIONS SHOWN ARE IN THE RIGGED PLANES AS SHOWN UNLESS OTHER WISE NOTED EXCEPT WING AND HORIZONTAL TAIL AREAS AND CHORDS WHICH ARE GIVEN IN THE ROOT CHORD PLANE ON THE WING AND THE CHORD PLANE ON THE HORIZONTAL TAIL WITH ZERO INCIDENCE RIG BUT ACTUAL DIHEDRAL RIG