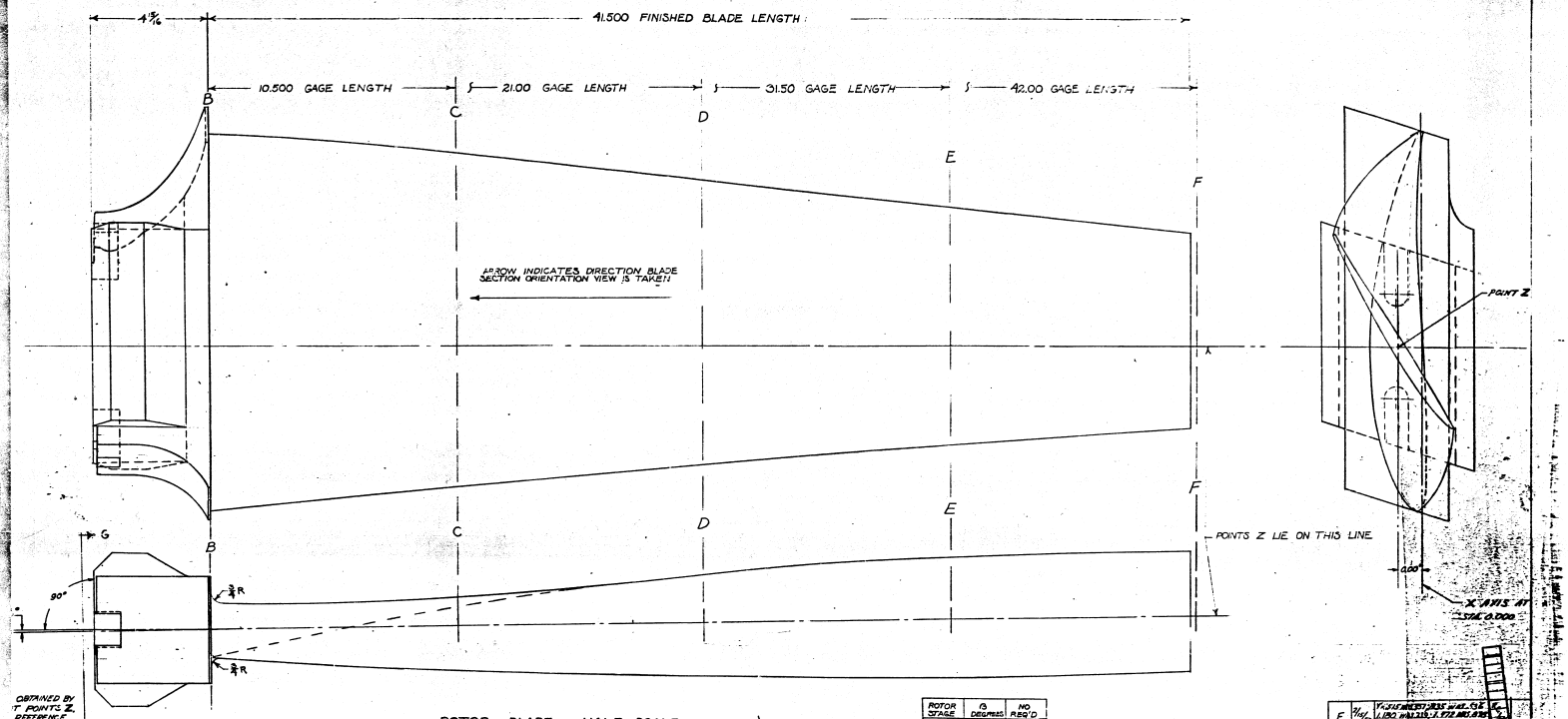
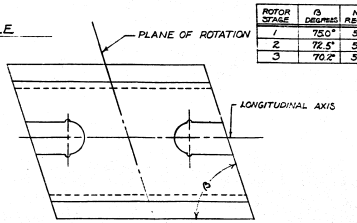


ROTOR BLADE - HALF SCALE

ROTOR STAGE	β DEGREES	NO REQ'D
1	75.0°	52
2	72.5°	52
3	70.2°	52



VIEW G-G
HALF SCALE

NOTES:
1. FOR ADDITIONAL HUB DETAILS SEE AD-9712-D39
2. TOLERANCE IN TWIST β AND β' IS ± 0.1°
3. TOLERANCE IN SURFACE DIMENSIONS ±.0010 EXCEPT AS SHOWN
4. TOLERANCE IN BLADE LENGTH IS +0.000, -0.031
5. POINTS J AND K ON THE BLADE SURFACES ARE TO BE USED FOR CHECKING DRIFT OF THE BLADE SECTIONS. POINT J IS THE POINT OF TANGENCY OF THE LEADING EDGE WITH A LINE PARALLEL TO THE Y AXIS OF SECTION B-B. COORDINATES OF THE POINTS J AND K ARE REFERRED TO X AND Y AXES OF SECTION B-B AND HAVE AN ALLOWABLE TOLERANCE OF ±0.015
6. POINTS Z LIE IN A STRAIGHT LINE PARALLEL TO THE Y PLANE OF SEC B-B.
7. BLADE SURFACES SHALL BE SMOOTH AND FAIR WITH NO ABRUPT CHANGES IN CONTOUR
(P) 8. FOR FORGING DWG., SEE UP-X203

LET	DATE	REVISIONS
F	7/15/57	V-SIZE WAS 1.237 WAS 1.2 L.180 WAS 1.1 .172 WAS .160 NOTE "M" IS ADDED
E	11/26/56	10.80 WAS 10.90
D	10/15/56	REVISED K, J, & X, Y & K & YK
C	7/16/56	REVISED ORDINATES
B	7/3/56	PRELIMINARY ISSUE
A	4/1/56	THIS DWG. SUPERSEDES AD 9712 X2 BLADE THICKNESS DISTRIBUTION ALTERED

"NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS"
AMES AERONAUTICAL LABORATORY
MOFFETT FIELD, CALIF.

8 FT. SUPERSONIC WIND TUNNEL
3 STAGE AXIAL-FLOW COMPRESSOR
ROTOR BLADE - DETAIL

SCALE AS NOTED
MATERIAL M-5-T6
PROJECT FINISH
QUAL. ASSEM. DRWG. NO.
UNLESS OTHERWISE NOTED
FRACTIONAL ±
DECIMAL ±
ANGULAR ±
DESIGN NUM
DRAWN N.T. MARTIN
CHECKED MILLS
SEARCH
APPROVED
APPROVED
SECTION
DIVISION
SIZE B
AD-9712 X38
SHEET OF F
SHT. 1 of 2