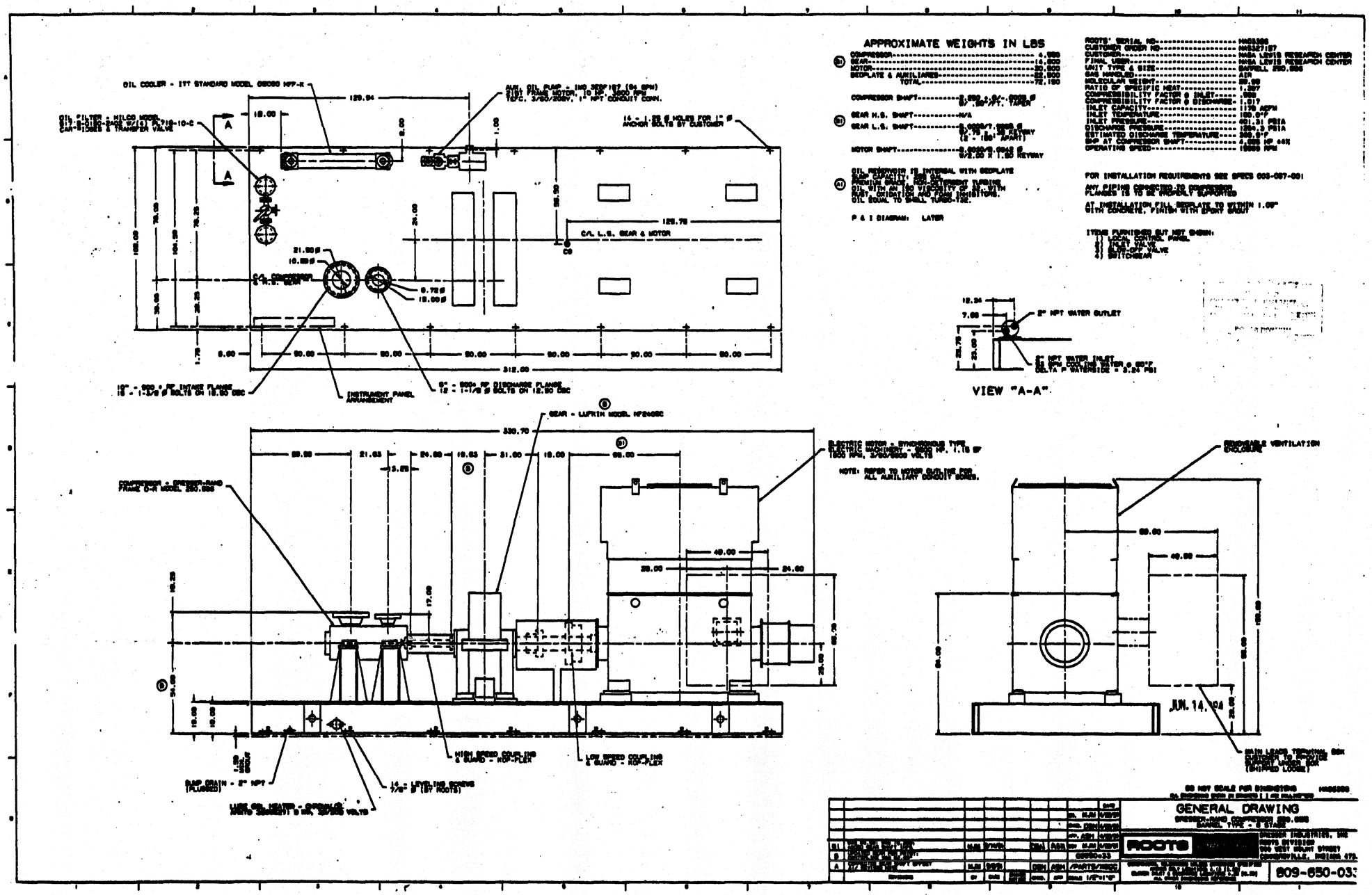
INFORMATION ONLY

PRELIMINARY DATA: DRAWING DETAILS ARE TO BE FIELD-VERIFIED

GENERAL NOTES

1. FOR LIST OF REFERENCE DRAWINGS, SEE DRAWING CF-157900.



APPROXIMATE WEIGHTS IN LBS

COMPRESSOR	4,000
GEAR	16,000
MOTOR	30,000
BEDPLATE & AUXILIARIES	22,000
TOTAL	72,150

COMPRESSOR SHAFT ---------- 8.000 x 8.0 - 8000 Ø
8/.50/.01, TAPER

GEAR H.S. SHAFT ---------- N/A

GEAR L.S. SHAFT ---------- 8.000x7.0000 Ø
8.75 x 1.25 KEYWAY
(2 - 180° APART)

MOTOR SHAFT ---------- 8.000x8.0040 Ø
8/2.00 X 1.00 KEYWAY

OIL RESERVOIR IS INTERNAL WITH BEDPLATE
SUMP CAPACITY: 200 GAL
PREMIUM GRADE, NON-DETERGENT TURBINE
OIL WITH AN ISO VISCOSITY OF 32 WITH
PLANT CHARACTERISTICS AND OPERATING CONDITIONS.
OIL EQUAL TO SHELL TURBO-T32.

P & I DIAGRAM: LATER

ROOTS' SERIAL NO.	H405280
CUSTOMER ORDER NO.	H05327187
CUSTOMER	NASA LEWIS RESEARCH CENTER
FINAL USER	NASA LEWIS RESEARCH CENTER
UNIT TYPE & SIZE	BARRELL 250.000
GAS HANDLED	AIR
MOLECULAR WEIGHT	28.96
RATIO OF SPECIFIC HEAT	1.397
COMPRESSIBILITY FACTOR @ INLET	.9998
COMPRESSIBILITY FACTOR @ DISCHARGE	1.017
INLET CAPACITY	1170 ACFM
INLET TEMPERATURE	100.0°F
INLET PRESSURE	401.31 PSIA
DISCHARGE PRESSURE	1264.3 PSIA
ESTIMATED DISCHARGE TEMPERATURE	300.0°F
BHP AT COMPRESSOR SHAFT	4,000 HP 46%
OPERATING SPEED	10000 RPM

FOR INSTALLATION REQUIREMENTS SEE SPECS 000-087-001

ANY PIPING CONNECTED TO COMPRESSOR FLANGES IS TO BE PROPERLY SUPPORTED

AT INSTALLATION FAIL BEDPLATE TO WITHIN 1.00" WITH CONCRETE. FINISH WITH EPOXY GROUT

ITEMS FURNISHED BUT NOT SHOWN:
1) LOCAL CONTROL PANEL
2) INLET VALVE
3) BLOW-OFF VALVE
4) SWITCHGEAR

VIEW "A-A"

SYM	NO.	DESCRIPTION	APP/DATE
		REVISIONS	

UNLESS OTHERWISE SPECIFIED
.X DIM. MAY VARY ±
.XX DIM. MAY VARY ±
.XXX DIM. MAY VARY ±
ANGULAR DIM. MAY VARY ±
..... DIM. MAY VARY ±
BREAK SHARP EDGES .....

DR. GM	CK.	D.ENG. DAZ
PROJ. MGR.	F. BR. CH.	F. DIV. CH.
FAC/SYS.MGR.	E. BR. CH.	E. DIV. CH.
R. ENG.	R. BR. CH.	R. DIV. CH.

NASA LEWIS RESEARCH CENTER
CLEVELAND, OHIO 44135

CONSTRUCTION OF THE 1250 PSIG COMB. AIR FACILITY BLDG. 38

COMPRESSOR C-6 MOTOR OUTLINES SHT. 1

SCALE NONE

REFERENCE

CF 157934

ELECTRICAL

OFFICIAL DATE 12/1/94

FILE: FILE:ASCR934 SCALE:1=NONE