

6.2 - AEROPLANE WEIGHT

Aeroplane Type:.....CESSNA 152

Registration Marking:.....VH-HCE Serial No:15283791

ISSUE:....TWO DATE:.....12.2.92 DATE OF EXPIRY:.....INDEFINITE

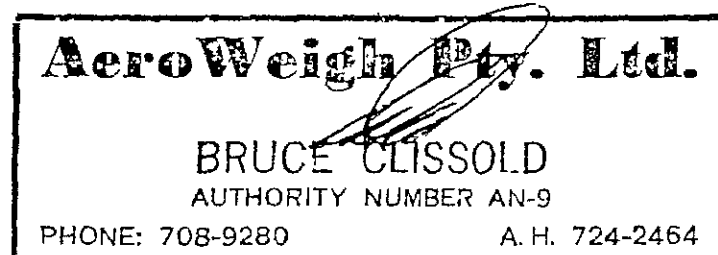
AEROPLANE WEIGHT AND CENTRE OF GRAVITY DATA:

ITEM	WEIGHT (Kg)	ARM (mm aft of datum)	INDEX UNIT (Kg.mm)	CABIN CONFIGURATION
EMPTY	521.6	775	404166	TWO SEATS TOTAL
BASIC	526.7	764	402262	TWO SEATS TOTAL

STANDARD CABIN CONFIGURATION

NOTE: The above empty weights include:-

EMPTY - unusable fuel and undrainable oil
BASIC - unusable fuel and full oil



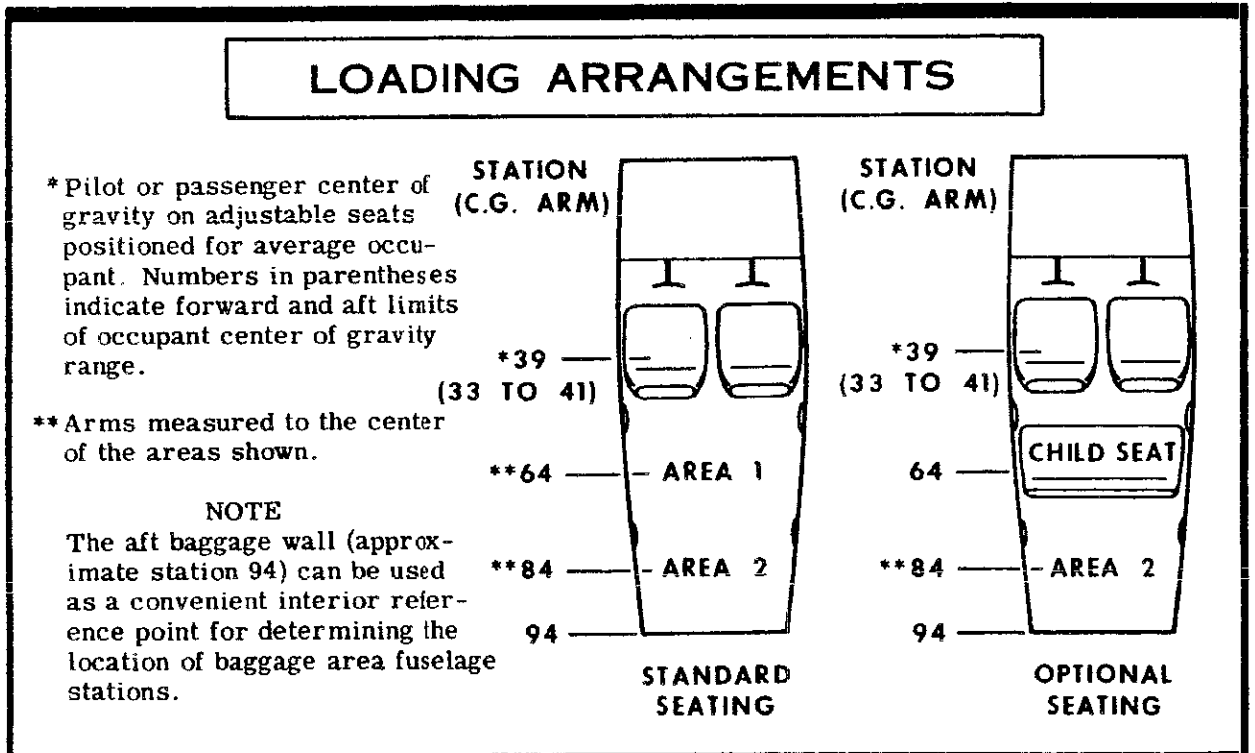


Figure 6-3. Loading Arrangements

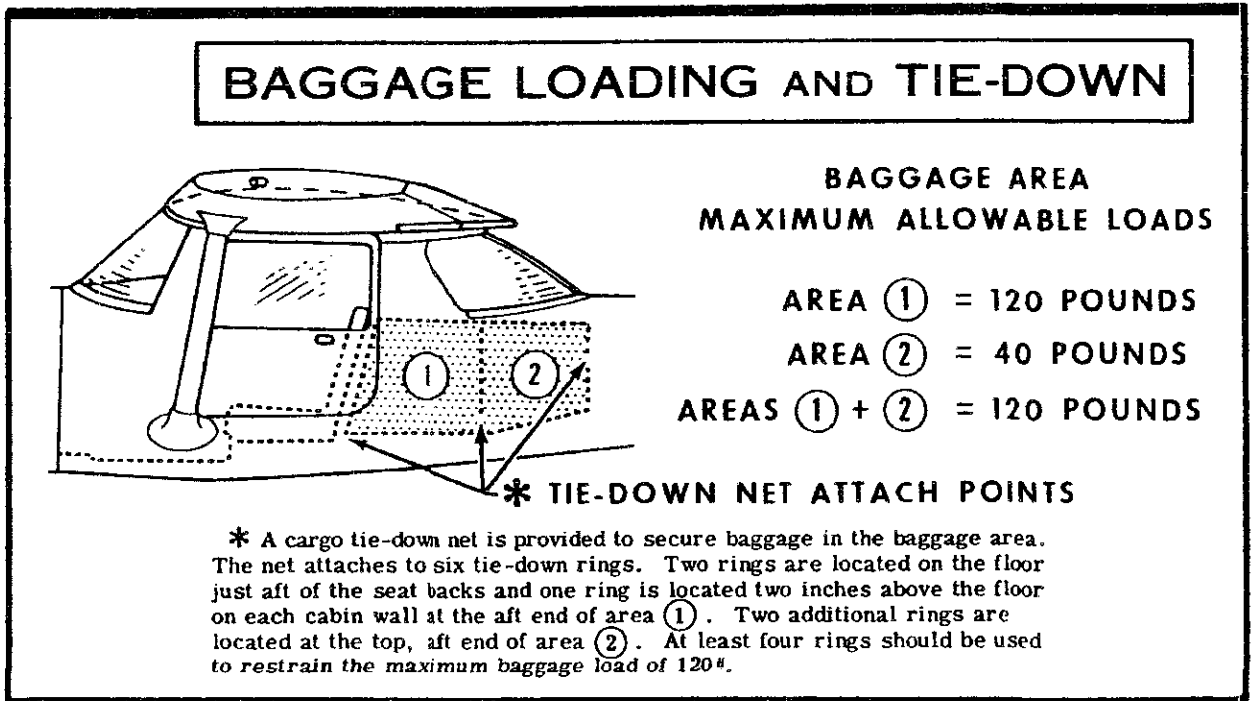


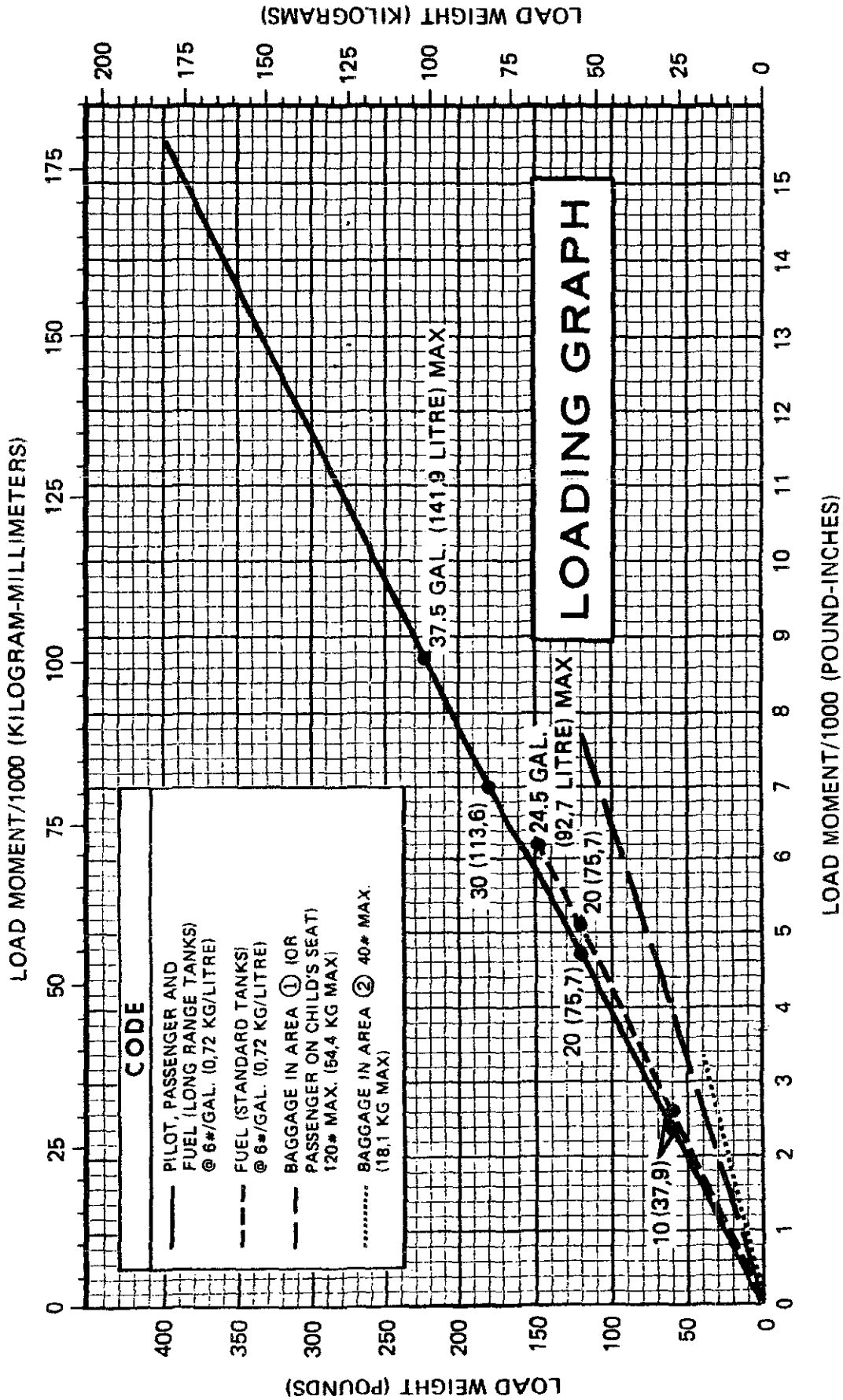
Figure 6-4. Baggage Loading and Tie-Down

SAMPLE AIRPLANE	YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb.-ins. /1000)
1. Basic Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel and full oil)	1136	34.0
2. Usable Fuel (At 6 Lbs./Gal.) Standard Tanks (24.5 Gal. Maximum)	147	6.2
Long Range Tanks (37.5 Gal. Maximum)		
Reduced Fuel (As limited by maximum weight)		
3. Pilot and Passenger (Station 33 to 41)	340	13.3
4. Baggage - Area 1 (Or passenger on child's seat) (Station 50 to 76, 120 Lbs. Max.)	47	3.0
5. Baggage - Area 2 (Station 76 to 94, 40 Lbs. Max.)		
6. TOTAL WEIGHT AND MOMENT	1670	56.5
7. Locate this point (1670 at 56.5) on the Center of Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable.		

Figure 6-6. Sample Loading Problem

SECTION 6
WEIGHT & BALANCE/
EQUIPMENT LIST

CESSNA
MODEL 152



NOTES: Line representing adjustable seats shows the pilot or passenger center of gravity on adjustable seats positioned for an average occupant. Refer to the Loading Arrangements Diagram for forward and aft limits of occupant C.G. range.

Figure 6-7. Loading Graph

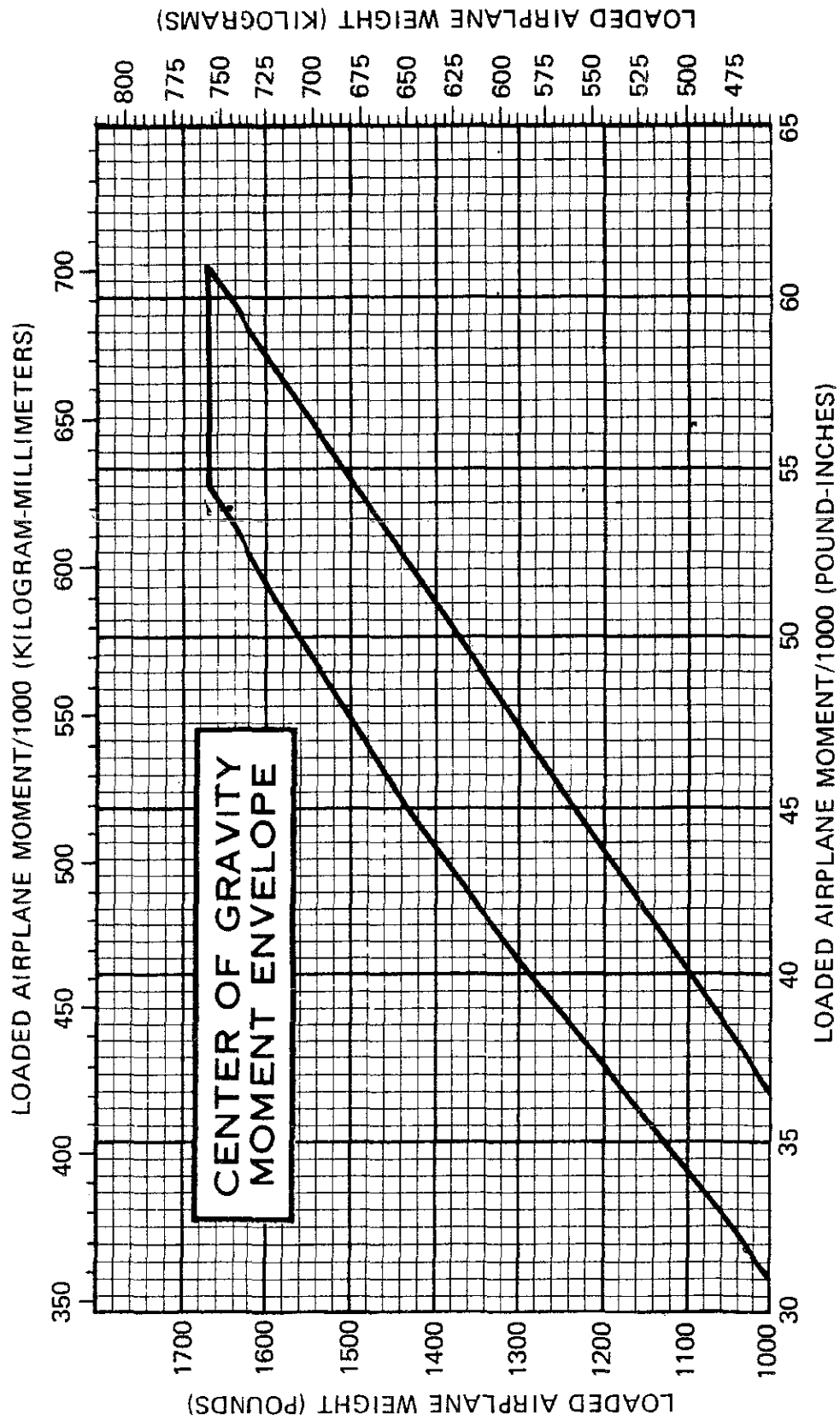


Figure 6-8. Center of Gravity Moment Envelope

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 MODEL 152

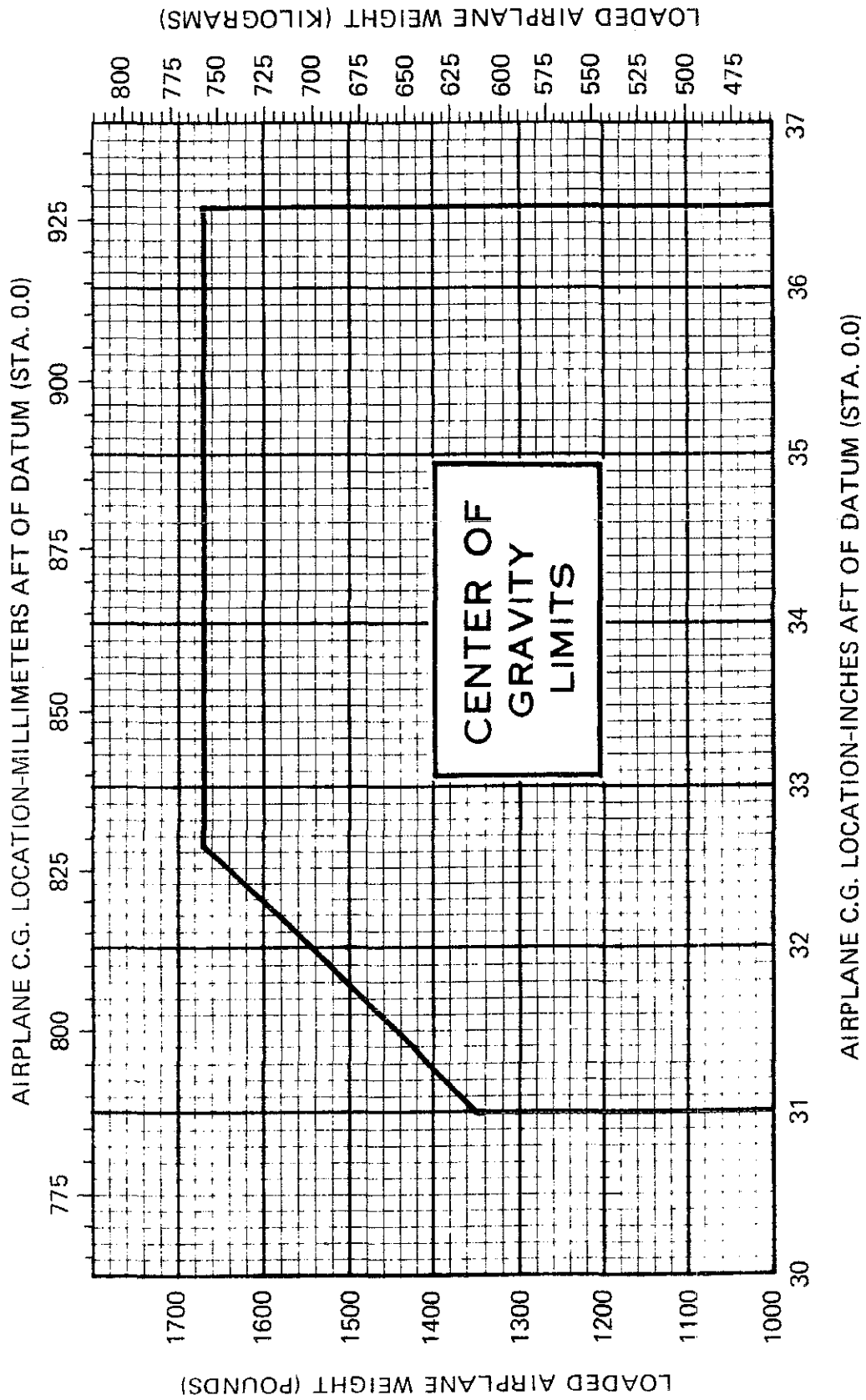
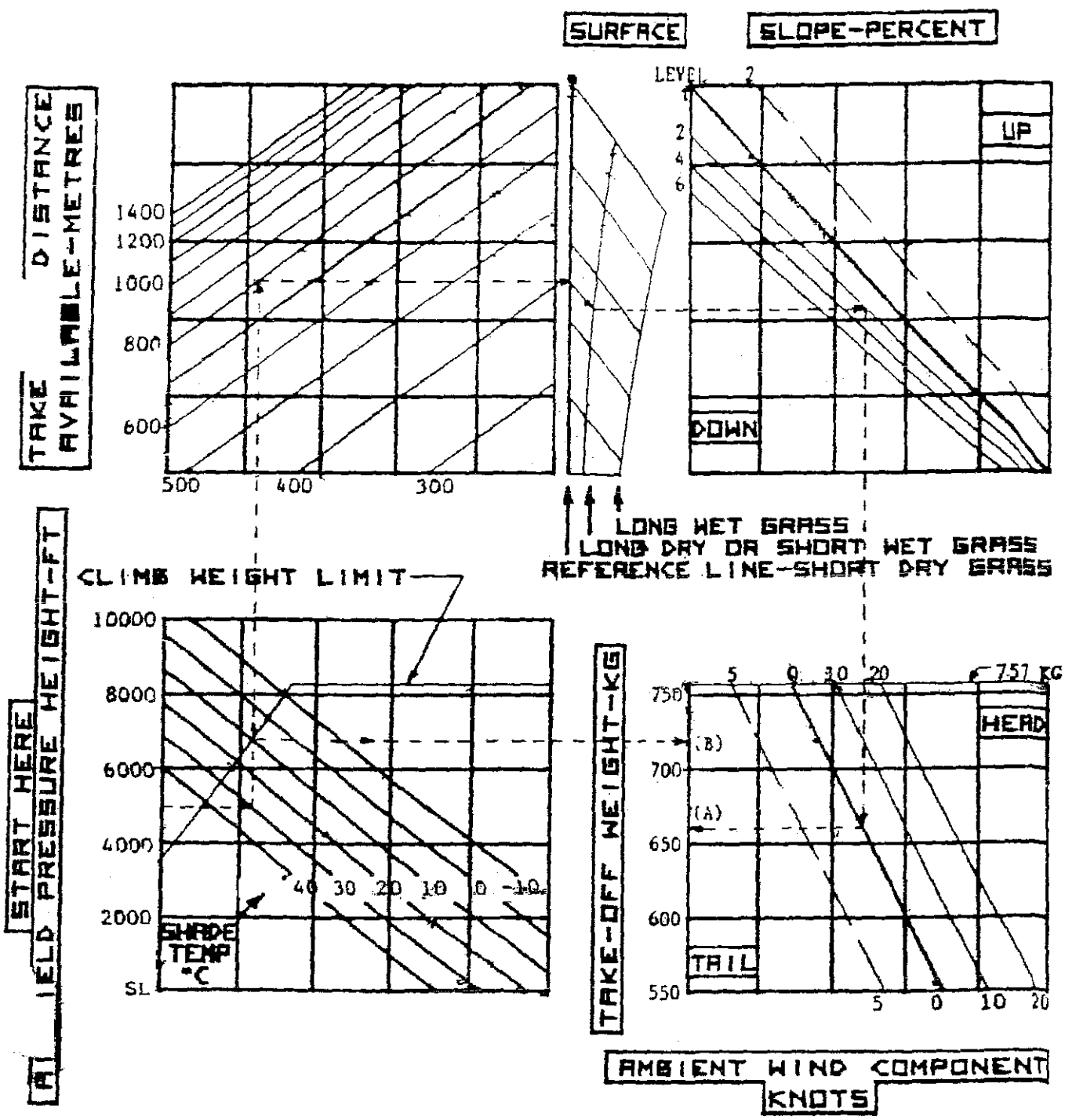


Figure 6-9. Center of Gravity Limits

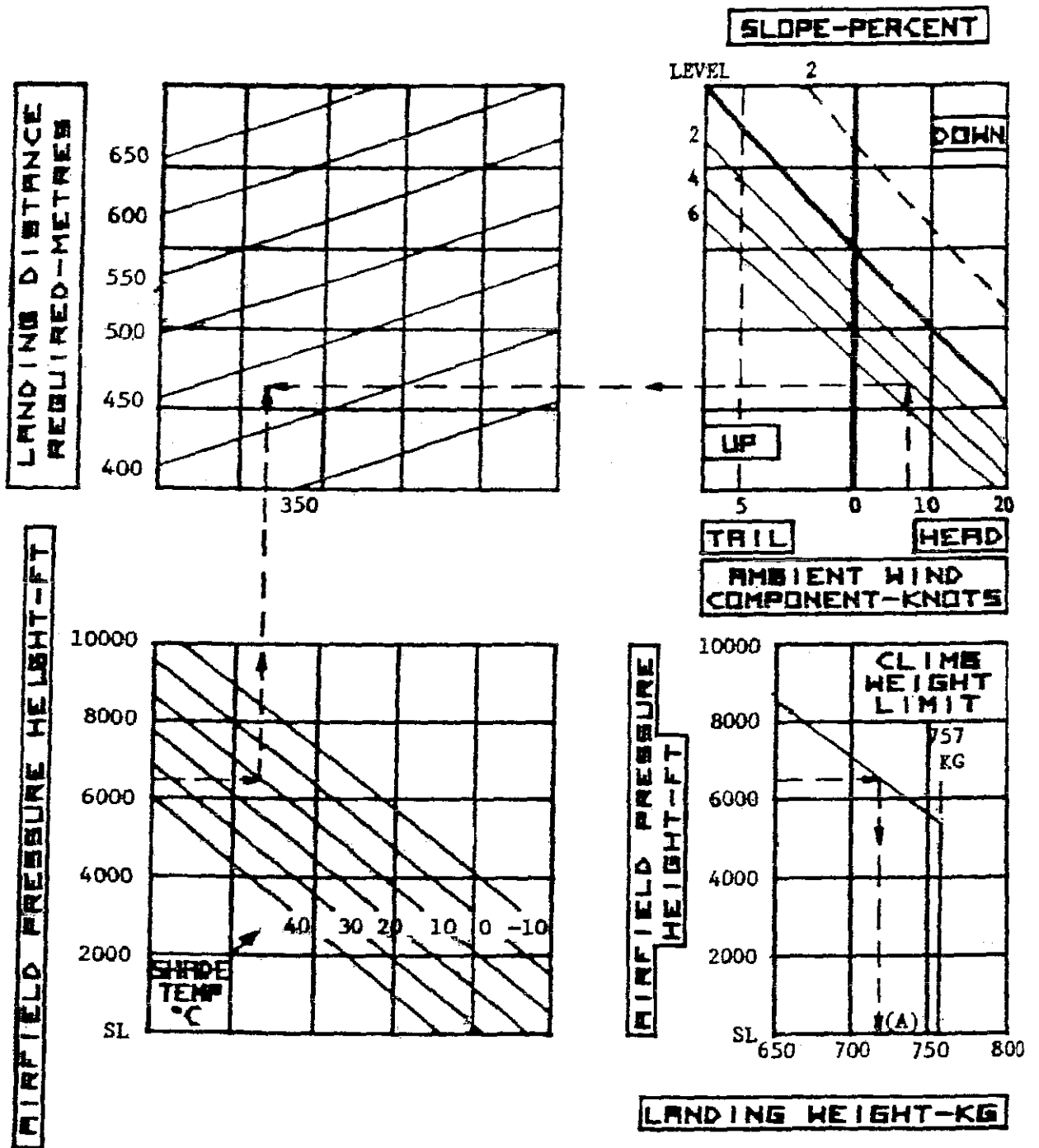
TAKE-OFF WEIGHT CHART



NOTE -
 THE GROSS WEIGHT AT TAKE-OFF SHALL NOT EXCEED
 THE LESSER OF (A) AND (B)

POWER	FULL THROTTLE
FLAP SETTING	10 DEGREES
TAKE-OFF SAFETY SPEED	54 KNOTS IAS
TAKE-OFF DIST. FACTOR	1.15

LANDING CHART



NOTES--

- (1) THE GROSS WEIGHT AT LANDING SHALL NOT EXCEED (A)
- (2) LANDING DISTANCE REQUIRED DOES NOT VARY WITH WEIGHT

FLAP SETTING	30 DEGREES
APPROACH SPEED	54 KNOTS IAS
LANDING DIST. FACTOR	1.15