

**Weight and Balance Table**

**N49827 Cessna 152**

LOADING		WEIGHT lbs	MOMENT lbs-inch/1000
1	Basic Empty Weight Use data from the plane's current weight and balance sheet that includes unusable fuel and full oil	1173	35219.43
2	Useable Fuel (6lbs/Gallon) Standard Tanks 24.5 Gal Max		
	Reduced Fuel (as limited by maximum weight)		
3	Pilot and Passenger [cabin stations 33-41]		
4	Baggage and Equipment <u>Area 1</u> [cabin stations 50-75] 120 lb Max Weight (120 lb max allowable combined weight in Areas 1 & 2*)		
5	Baggage and Equipment <u>Area 2</u> [cabin stations 76-94] 40 lbs Max Weight (120 lb max allowable combined weight in Areas 1 & 2*)		
6	Ramp Weight and Moment**		
7	Fuel allowance for engine start, taxi, and runup		
8	TAKEOFF WEIGHT AND MOMENT (subtract 7 from 6)		
9	Locate the Center of Gravity on Figure 6.9. If this point falls within the envelope, loading is acceptable.		
*Max allowable combined weight capacity for baggage areas 1 and 2 is 120lbs **Max Total Takeoff Weight is 1670 lbs			

\_\_\_\_\_  
Student Name

\_\_\_\_\_  
Flight Date and Time

\_\_\_\_\_  
Instructor Name

Premier Avionics, LLC.

FAA AVIONICS CRS# 7PMR634B

**Weight and Balance Installed Equipment Data**

Tail Number: N49827      Date: 8/17/18  
 Make: Cessna      Work Order Number: 5437  
 Model: 152      Superceded Date: 3/27/86  
 Aircraft Serial Number: 15281344      Prepared By: Brian Paugh

	Weight	Arm	Moment	Useful Load
<b>Previous Aircraft Empty Information:</b>	1174.30	30.00	35209.00	495.70

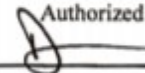
Removed Equipment	Weight	Arm	Moment
IND-350 Nav Indicator, SN: 4338	1.00	15.50	15.50
AR-850 Encoder, SN: 44140	0.70	2.00	1.40
KMD150 Display, SN: 27101480	3.00	14.50	43.50
RT-359A Transponder, SN: 16140	2.00	12.00	24.00
VHF-251 Com, SN: 3724	3.40	11.50	39.10
VIR-351 Nav, SN: 21834	2.70	11.50	31.05
GPS Antenna	0.50	57.00	28.50

Installed Equipment	Weight	Arm	Moment
GNC255A Nav/Com, SN: 2A8020139	3.50	12.80	44.80
GI-106B Nav Indicator, SN: A18-11271	1.40	15.60	21.84
GTR225 Com, SN: 2A5006089	3.10	12.40	38.44
GTX335 Transponder, SN: 3EE421135	2.90	13.00	37.70
GA-35 GPS Antenna, SN: 143472	0.50	33.00	16.50
CI-121 Com Antenna, SN: 566128	0.60	57.00	34.20

New Empty Weight:	1173.00	Pounds
New C.G. (ARM):	30.03	Inches
New Moment:	35219.43	
New Useful Load:	497.00	Pounds

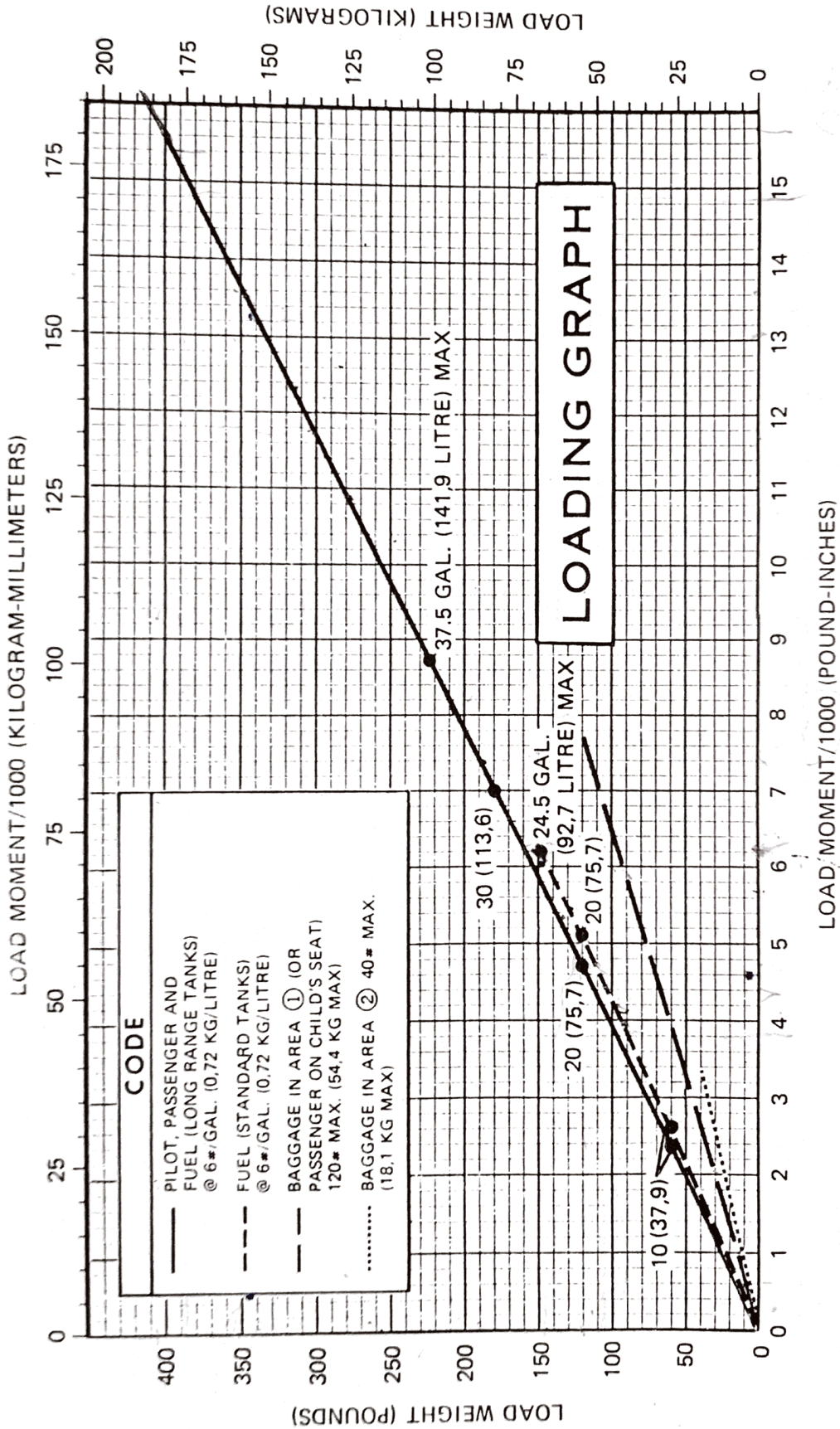
\* The above installation performed in accordance with manufacturers specifications and is approved for return to service.  
 \*Weight was calculated using the last weight and balance provided.

Authorized Signature



Brian C. Paugh

Premier Avionics, LLC. \* AVIONICS CRS # 7PMR634B



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

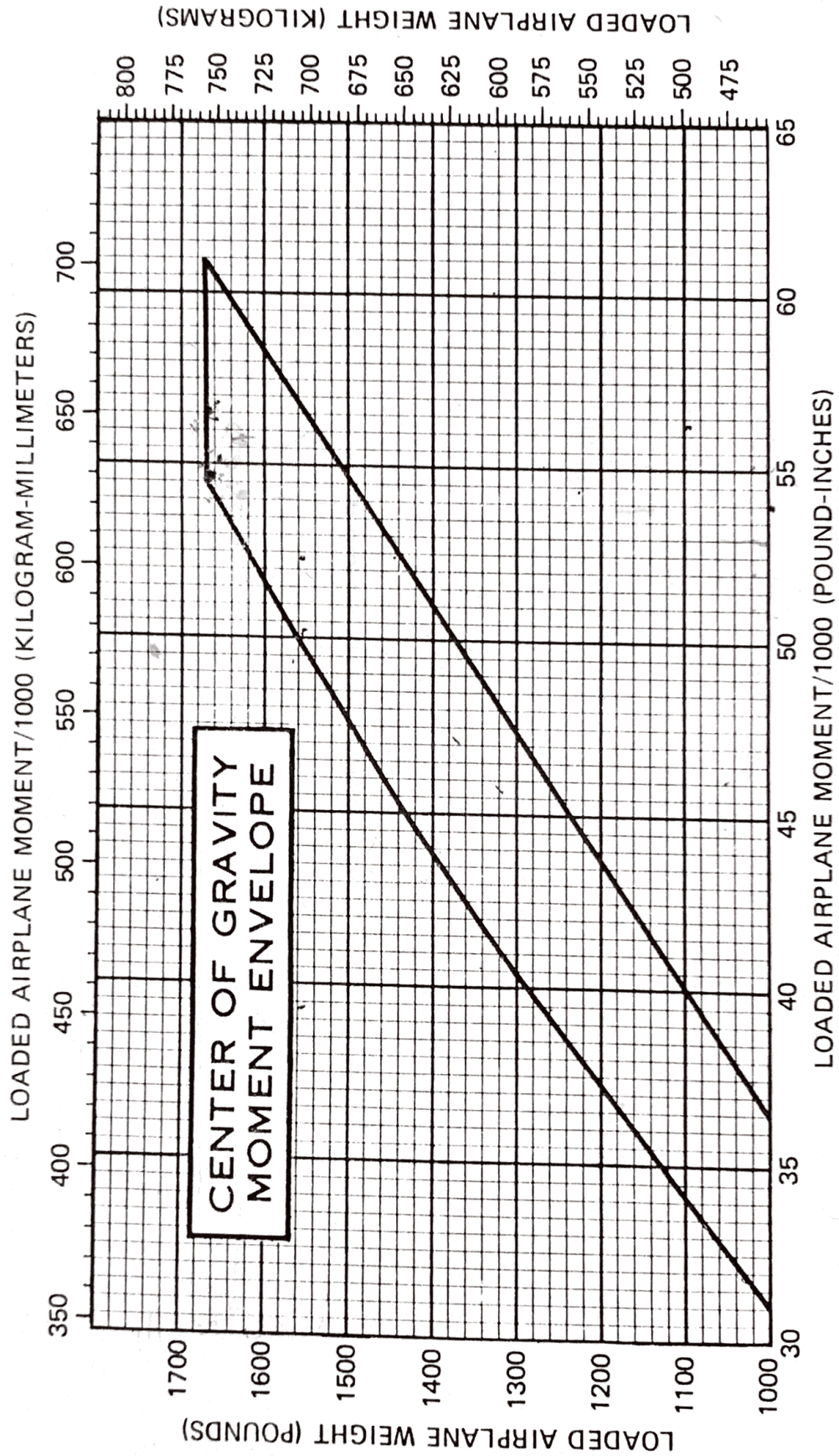


Figure 6.8

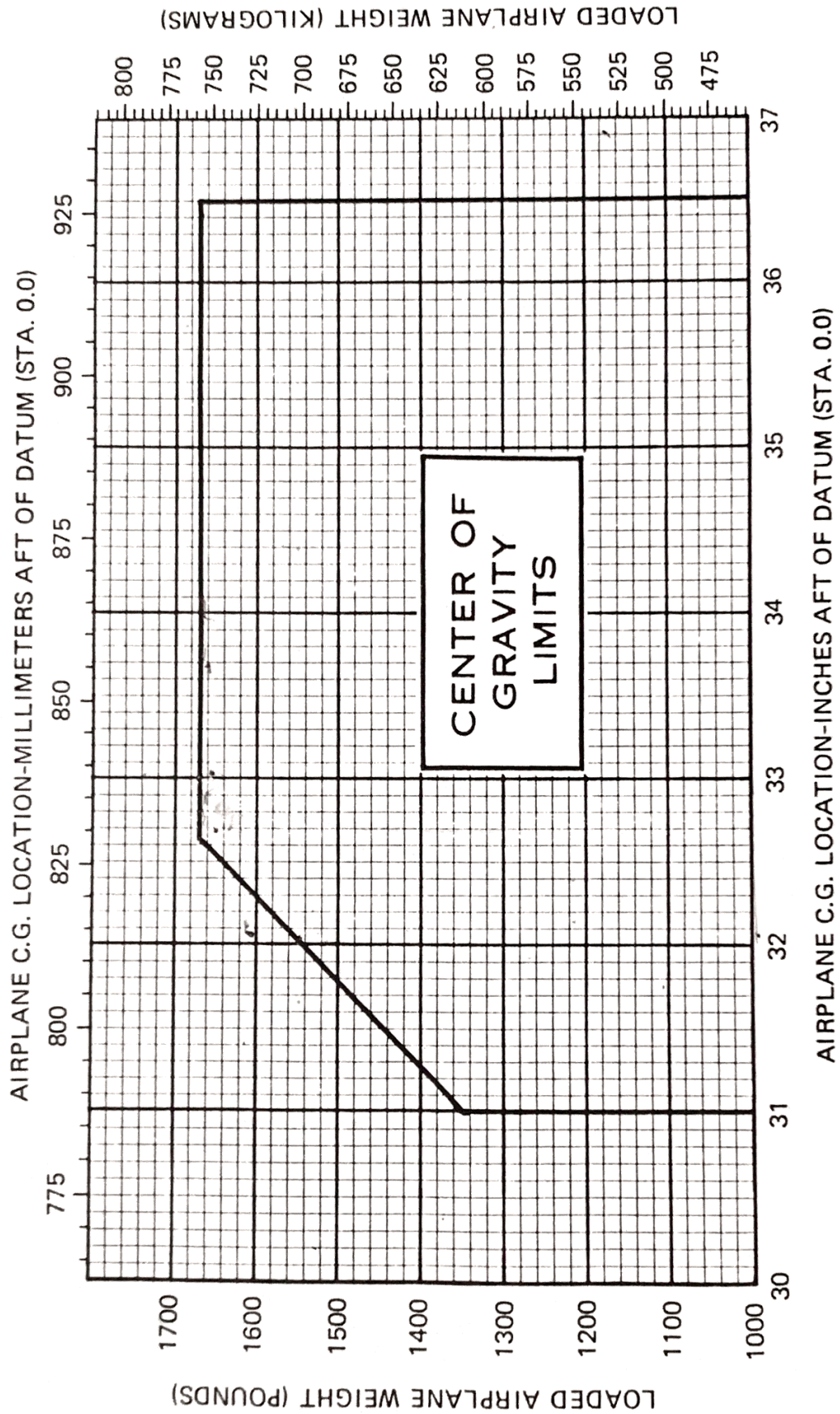


Figure 6.9