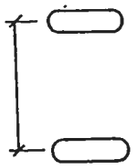
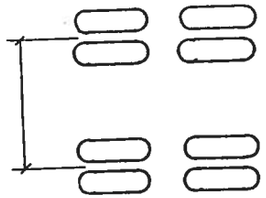
FORMULA FOR LEGAL GROSS WEIGHT

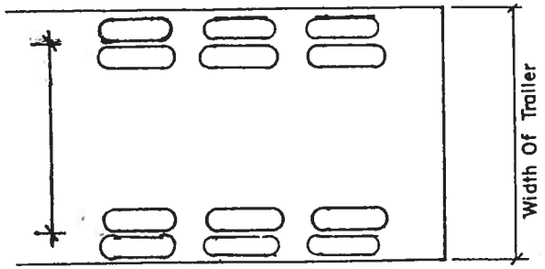
$W = 900 (L + 40)$

L = Dist. bet. 1st & last axles

W = Max. legal gross weight

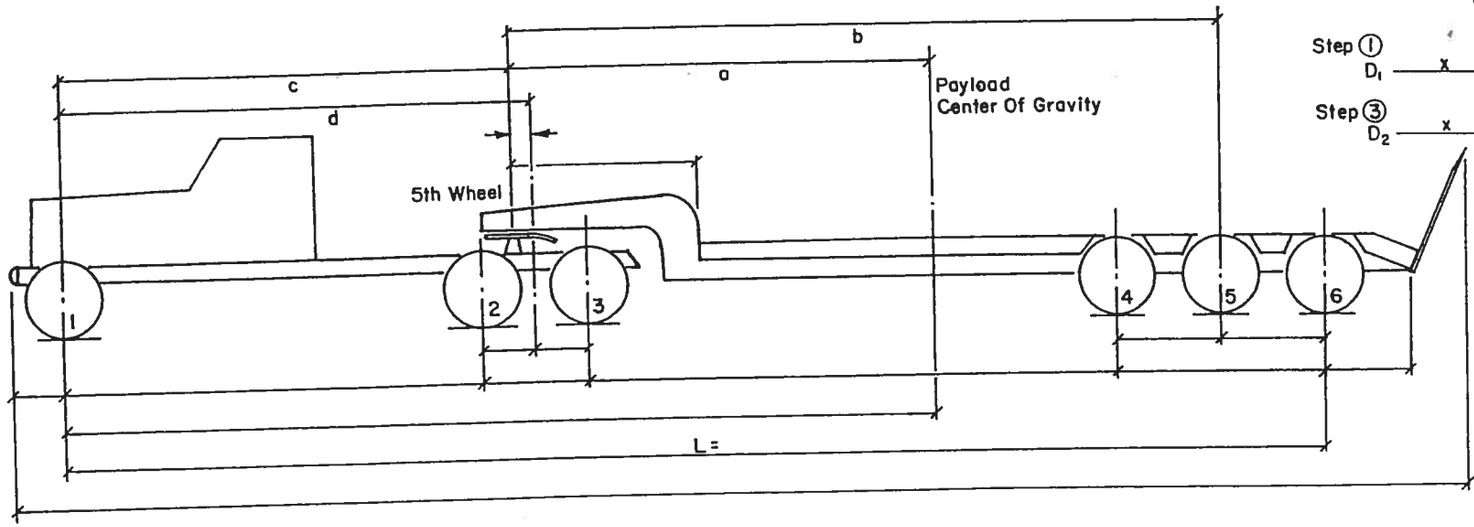






WEIGHT DISTRIBUTION FORMULA

$$\begin{cases} D_1 = \dfrac{a \times \text{Payload}}{b} \\ D_2 = \dfrac{c \times K}{d} \end{cases}$$



Step ① D_1 ____ x ____ =

Step ③ D_2 ____ x ____ =

Step ② Payload ____ $- D_1$ ____ $K =$ ____

Step ④ K ____ $- D_2$ ____ $D_3 =$ ____

	D_3	D_2		D_1			TOTALS
COMBINATION EMPTY WEIGHT							
PAYLOAD							
GROSS WEIGHT							
TIRE SIZE							
Allowable load per tire							
No. of tires per axle							
Allowable axle load (Tire Formula)							

PARAMETERS

a = distance from 5th wheel to center of gravity of Payload.
b = " " " " " " " 5th axle of trailer.
c = " " axle 1 to 5th wheel of truck-tractor.
d = " " " 1 to center of axles 2 & 3.
D_1 = computed payload for axles 4, 5 & 6 (see above).
D_2 = " " " " 2 & 3 (see above).
D_3 = " " " " 1 ($K - D_2 = D_3$).
K = " " " 5th Wheel.

Checked By_____ Date_____

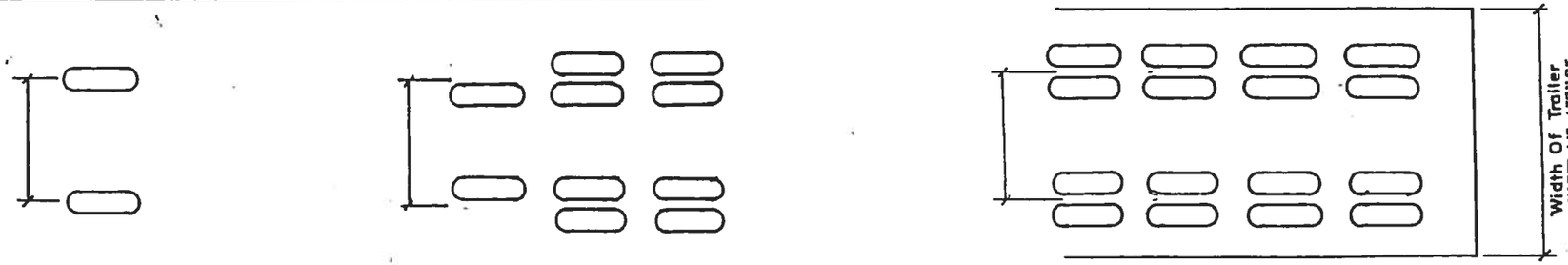
PERMIT No._____ TO_____

TRUCK_____ TRAILER_____

LOAD_____ Wt._____ Wd._____ Lt._____ Ht._____

DATE_____ BY_____

2/20/74



FORMULA FOR LEGAL GROSS WEIGHT

W = 900 (L + 40)

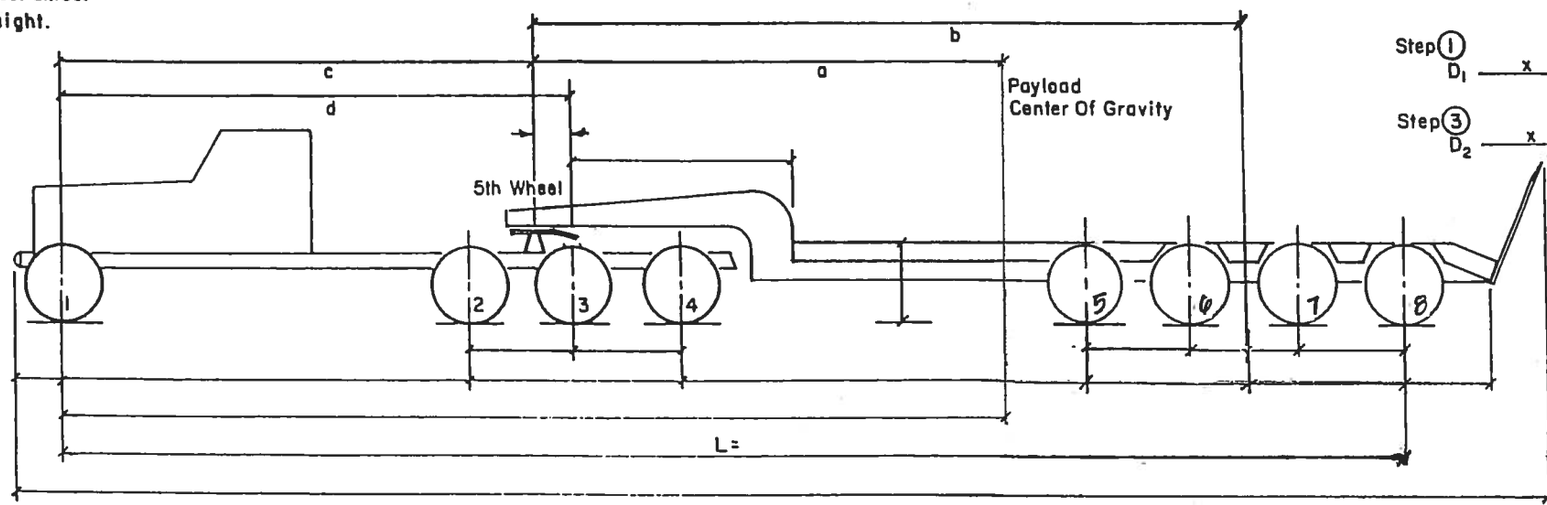
L = Distance between 1st & last axles.

W = Maximum legal gross weight.

WEIGHT DISTRIBUTION FORMULA

$$D_1 = \frac{a \times \text{Payload}}{b}$$

$$D_2 = \frac{c \times K}{d}$$



Step (1) D_1 ____ x ____ =

Step (3) D_2 ____ x ____ =

Step (2) Payload ____ $- D_1$ ____ K =

Step (4) ____ $- D_2$ ____ D_3 =

	D_3	D_2			D_1					TOTALS
COMBINATION EMPTY WEIGHT										
PAYLOAD										
GROSS WEIGHT										
TIRE SIZE										
Allowable load per tire										
No. of tires per axle										
Allowable axle load(tire formula)										

PARAMETERS

a = distance from 5th wheel to center of gravity of Payload.

b = " " " " " " " " tandem axle of trailer (axles 5 to 7).

c = " " axle 1 to 5th wheel of truck-tractor.

d = " " " 1 to center of axle 3.

D_1 = computed payload for axles 5 - 8 (see above).

D_2 = " " " " 2, 3 & 4 (see above).

D_3 = " " " " 1 ($K - D_2 = D_3$).

K = difference of D from the Payload (Payload - D_1 = K).

Checked By _____ Date _____

PERMIT NO. _____ TO _____

TRUCK _____ _____ TRAILER _____

LOAD _____ WT. _____ WD. _____ LT. _____ HT. _____

DATE _____ BY _____