



TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, <u>NO</u> PAYLOAD.	
FRONT AXLE LOAD	= 6,130 LBS.
REAR AXLE LOAD	= 10,230 LBS.
FRONT AXLE PERCENTAGE	= 37 %
REAR AXLE PERCENTAGE	= 63 %
GROSS VEHICLE WEIGHT	= 16,360 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, <u>WITH</u> PAYLOAD.	
FRONT AXLE LOAD	= 6,120 LBS.
REAR AXLE LOAD	= 13,380 LBS.
FRONT AXLE PERCENTAGE	= 31 %
REAR AXLE PERCENTAGE	= 69 %
WATER LEVEL PAYLOAD	= 3,140 LBS.
GROSS VEHICLE WEIGHT	= 19,500 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= DODGE 5500 4X4
WHEELBASE	= 192 1/2"
CAB TO AXLE	= 108"
AXLE-TO-FRAME	= 51", 72" REQUIRED
FRONT AXLE CURB WEIGHT	= 4,998 LBS.
REAR AXLE CURB WEIGHT	= 3,285 LBS.
FRONT G.A.W.R.	= 7,000 LBS.
REAR G.A.W.R.	= 13,500 LBS.
YIELD STRENGTH OF EACH CHASSIS FRAME	MINIMUM SECTION MODULUS REQUIRED
50,000 P.S.I. STEEL	= 15.31 in. ³
MINIMUM RBM/RAIL	= 765,360 IN-LBS

NOTES:
 FRAME RAIL MUST MEET OR EXCEED THE MINIMUM RBM REQUIRED.
 FULL LENGTH SUBFRAME REQUIRED:
 4"x3"x3/8" RECT. TUBING (ON TOP OF FRAME RAIL).
 3"x3"x3/8" SQ. TUBE CROSS MEMBERS (EVERY 3FT).
 CURB WEIGHTS FROM DIESEL TRUCK INDEX.
 FLATBED WEIGHTS ARE ESTIMATED.

TRUCK RUNS IN US (RULES FOR MOST STATES).
 7,000 LBS. ALLOWED ON FRONT AXLE GAWR.
 13,500 LBS. ALLOWED ON REAR AXLE GAWR.
 19,500 LBS. MAX. GROSS VEHICLE WEIGHT.
 MAXIMUM LENGTH CANNOT EXCEED 40'.

NOTICE:

THE DRAWING PURPOSE IS TO INTRODUCE A GENERAL CONCEPT OF A PROPOSED IDEA.

NOTICE:

THIS WEIGHT DISTRIBUTION IS BASED ON ESTIMATED WEIGHTS AND IS ONLY AS ACCURATE AS THOSE ESTIMATES. ACTUAL WEIGHTS MAY CHANGE THE RESULTS OF THIS WEIGHT DISTRIBUTION.

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Tolerances - unless otherwise noted.
 Tolerances are in inches.
 2-PLACE ±.00..... .03
 3-PLACE ±.000..... .015
 ANGULAR ± 1'
 FRACTIONAL ± 1/16"
 Break all sharp corners unless otherwise specified.

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Next Assy.
 Dwg/Cad file no. **066 / SALES**

Drawing Title:
 HIAB 066 D-3 HIDUO

Project Name:
 SALES LAYOUT

Drawn by/Date:
 J W 4-10-18

Size: unit wt. **Part No.:** Eng. job no.:

Approval: Date Approved: **Scale:**