



TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, <u>NO PAYLOAD.</u>	
TOTAL WEIGHT ON FRONT AXLE =	21,300 LBS.
TOTAL WEIGHT ON TANDEM AXLE =	21,880 LBS.
FRONT AXLE WT. PERCENTAGE =	49 %
TANDEM AXLE WT. PERCENTAGE =	51 %
GROSS VEHICLE WEIGHT =	43,180 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, <u>WITH PAYLOAD.</u>	
TOTAL WEIGHT ON FRONT AXLE =	21,340 LBS.
TOTAL WEIGHT ON TANDEM AXLE =	32,660 LBS.
FRONT AXLE WT. PERCENTAGE =	40 %
TANDEM AXLE WT. PERCENTAGE =	60 %
GROSS VEHICLE WEIGHT =	54,000 LBS.
PAYLOAD EVENLY DISTRIBUTED =	10,820 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL =	WESTERN STAR 4700SB
WHEELBASE =	265"
CAB TO TANDEM =	201 1/2"
AXLE-TO-FRAME =	115", 131 1/2" REQ'D.
FRONT TARE WEIGHT =	11,757 LBS.
TANDEM TARE WEIGHT =	8,722 LBS.
FRONT G.A.W.R. =	22,000 LBS.
TANDEM G.A.W.R. =	46,000 LBS.
YIELD STRENGTH OF EACH FRAME RAIL =	MINIMUM SECTION MODULUS REQUIRED
120,000 P.S.I. YIELD =	35.40 in. ³
MINIMUM RBM/RAIL OF	4,247,583 IN-LBS

NOTES:
 FRAME RAIL MINIMUM OF 31.00 SECTION MODULUS REQUIRED.
 FULL LENGTH SUB-FRAME REQUIRED:
 6" x 4" x 3/8" RECT. TUBING (ON TOP OF FRAME RAIL)
 5" x 3" x 3/8" RECT. TUBING (CROSSMEMBERS EVERY 3 FT.)
 LIFT AXLE & FLATBED WEIGHTS ARE ESTIMATED.
 CURB WEIGHTS SHOWN WERE PROVIDED.

TRUCK RUNS IN MASSACHUSETTS.
 22,000 LBS. ALLOWED ON FRONT AXLE GAWR.
 34,000 LBS. ALLOWED ON TANDEM AXLE.
 54,000 LBS. ALLOWED FOR GROSS WEIGHT.
 LEGAL OVERALL LENGTH IS 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.

Hiab, Inc. Hiab, Inc. 12233 Williams Road Perrysburg, Ohio 43551 Tel (419) 482-6000 Fax (419) 482-6001 <small>Tolerances - unless otherwise noted. Tolerances are in inches.</small> 2-PLACE ±.00..... .03 3-PLACE ±.000..... .015 ANGULAR ± 1° FRACTIONAL ± 1/16" <small>Break all sharp corners unless otherwise specified.</small>	THIS PROPERTY AND ALL INFORMATION THEREIN IS THE PROPERTY OF Hiab, Inc., 12233 WILLIAMS RD., PERRYSBURG, OHIO 43551 AND IS CONFIDENTIAL. IT MUST NOT BE MADE PUBLIC OR COPIED. THIS DRAWING IS LOANED TO RETURN UPON DEMAND AND SHALL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS. OUR PRIOR SPECIFIC APPROVAL IS REQUIRED FOR EXPOSURE OF THIS DRAWING TO OTHERS FOR ANY PURPOSE.	Drawing Title: HIAB 408E-7 HIPRO
	Project Name: SALES LAYOUT	Drawing by/Date: PWP 6-19-19
Dwg/Cad file no. 408 / SALES	Approval: Date Approved:	Scale: unit wt. Eng. job no.: