



CRANE MAY BE DERATED IN FRONT QUADRANTS AS MUCH AS 50%. ACTUAL DERATING SHALL BE BASED ON PHYSICAL TESTING.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD, LIFT AXLES UP.	
TOTAL WEIGHT ON FRONT AXLE	= 11,550 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 33,530 LBS.
FRONT AXLE WT. PERCENTAGE	= 26 %
TANDEM AXLE WT. PERCENTAGE	= 74 %
GROSS VEHICLE WEIGHT	= 45,080 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DIST, WITH PAYLOAD, LIFT AXLES DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 15,900 LBS.
TOTAL WEIGHT ON PUSHER AXLE	= 9,000 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 31,600 LBS.
TOTAL WEIGHT ON TAG AXLE	= 10,000 LBS.
FRONT AXLE WT. PERCENTAGE	= 24 %
PUSHER AXLE WT. PERCENTAGE	= 14 %
TANDEM AXLE WT. PERCENTAGE	= 47 %
TAG AXLE WT. PERCENTAGE	= 15 %
GROSS VEHICLE WEIGHT	= 66,500 LBS.
WATER LEVEL PAYLOAD	= 21,420 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= WESTERN STAR 4700SB
WHEELBASE	= 274"
CAB TO TANDEM AXLE-TO-FRAME	= 210 1/2"
FRONT TARE WEIGHT	= 10,870 LBS.
TANDEM TARE WEIGHT	= 9,314 LBS.
FRONT G.A.W.R.	= 20,000 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	= 45.66 in. ³
MINIMUM RBM/RAIL = 5,479,632 IN-LBS	

NOTES:
 DOUBLE FRAME RAIL REQUIRED.
 FULL LENGTH SUB-FRAME REQUIRED:
 6"x4"x3/8" RECT. TUBING (ON TOP OF FRAME RAIL)
 5"x3"x3/8" RECT. TUBING (CROSSMEMBERS EVERY 3 FT.)
 3/8" TOP & 1/4" BOTTOM PLATE REQUIRED.
 CURB WEIGHTS WERE PROVIDED.
 FLATBED AND LIFT AXLE WEIGHTS ARE ESTIMATED.

TRUCK RUNS IN US (RULES FOR MOST STATES).
 20,000 LBS. ALLOWED ON FRONT AXLE.
 34,000 LBS. ALLOWED ON TANDEM AXLE.
 42,500 LBS. ALLOWED ON TRIDEM. (9')
 51,500 LBS. ALLOWED ON 4 AXLE GROUP. (14')
 66,500 LBS. ALLOWED FOR GROSS WEIGHT. (30')
 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. **410K / SALES**

Drawing Title:		HAIB 410K-3	
Project Name:		SALES LAYOUT	
Drawn by/Date:	SMG 1-31-20	Size:	Part No.
Approval:	Date Approved:	Scale:	unit wt.
		Eng. job no.:	