

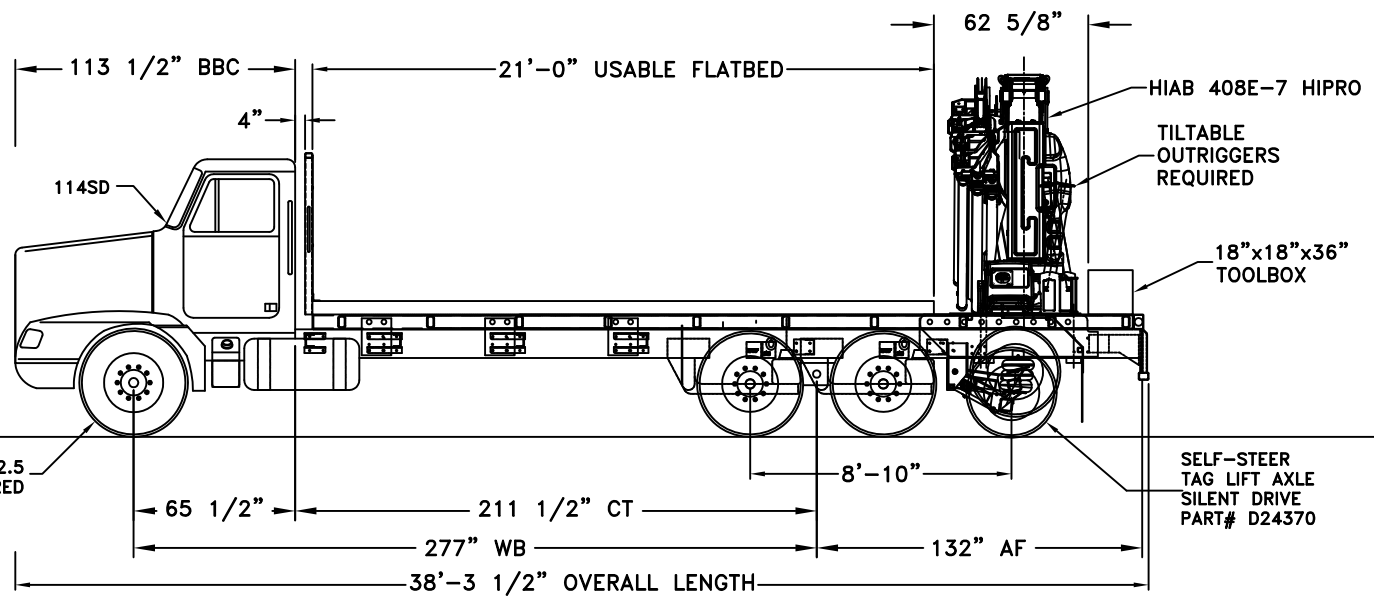
REV. PART NO. H3626A

YIELD STRENGTH
120,000 P.S.I. YIELD

CRANE MINIMUM SECTION MODULUS REQUIRED
= 42.48 in.³

CRANE MIN. RBM/RAIL = 5,097,100 IN-LBS

CRANE MAY BE DERATED IN FRONT QUADRANTS AS MUCH AS 45%. ACTUAL DERATING SHALL BE BASED ON PHYSICAL TESTING.



TRUCK, HIAB CRANE, & ACCESSORIES WEIGHT DISTRIBUTION, <u>NO PAYLOAD</u> , TAG AXLE DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 12,570 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 17,840 LBS.
TOTAL WEIGHT ON TAG AXLE	= 11,000 LBS.
FRONT AXLE WT. PERCENTAGE	= 30 %
TANDEM AXLE WT. PERCENTAGE	= 43 %
TAG AXLE WT. PERCENTAGE	= 27 %
GROSS VEHICLE WEIGHT	= 41,410 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, <u>WITH PAYLOAD</u> , TAG AXLE DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 17,920 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 31,500 LBS.
TOTAL WEIGHT ON TAG AXLE	= 11,000 LBS.
FRONT AXLE WT. PERCENTAGE	= 30 %
TANDEM AXLE WT. PERCENTAGE	= 52 %
TAG AXLE WT. PERCENTAGE	= 18 %
GROSS VEHICLE WEIGHT	= 60,420 LBS.
WATER LEVEL PAYLOAD	= 19,010 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= FREIGHTLINER 114SD
WHEELBASE	= 277"
CAB TO TANDEM AXLE-TO-FRAME	= 211 1/2"
FRONT CURB WEIGHT	= 10,900 LBS.
TANDEM CURB WEIGHT	= 8,800 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	= 37.00 in. ³
MINIMUM RBM/RAIL = 4,440,000 IN-LBS	

NOTES:

DOUBLE FRAME CHASSIS REQUIRED.
CHASSIS FRAME RAIL MIN. OF 37.0 SECTION MODULUS REQ'D.
FULL LENGTH SUB-FRAME REQUIRED:
6" x 4" x 3/8" RECT. TUBING (ON TOP OF CHASSIS FRAME)
5" x 3" x 3/8" RECT. TUBING (CROSSMEMBERS EVERY 3 FT.)
3/8" TOP & 1/4" BOTTOM PLATE REQUIRED.
TAG AXLE MUST BE DOWN IN ALL FORWARD GEARS
FLATBED, LIFT AXLE & CURB 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 3 AXLE GROUP. (9')
62,000 LBS. ALLOWED FOR GROSS WEIGHT (30').
MAXIMUM LENGTH CAN NOT 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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Drawing Title: **HIAB 408E-7 HIPRO CRANE**

Project Name: **SALES LAYOUT**

Drawn by:	Date:	Size:	Part No.
CSV	12-4-17		
Approval:	Date Approved:	Scale:	unit wt.
			Eng. Job no.:

Tolerances - unless otherwise noted.
Tolerances are in inches
2-PLACE ±.000... .05
3-PLACE ±.000... .015
ANGULAR ±/16"
FRACTIONAL ±/16"
Break all sharp corners unless otherwise specified.

Dwg/Cad file no. **408 / SALES**