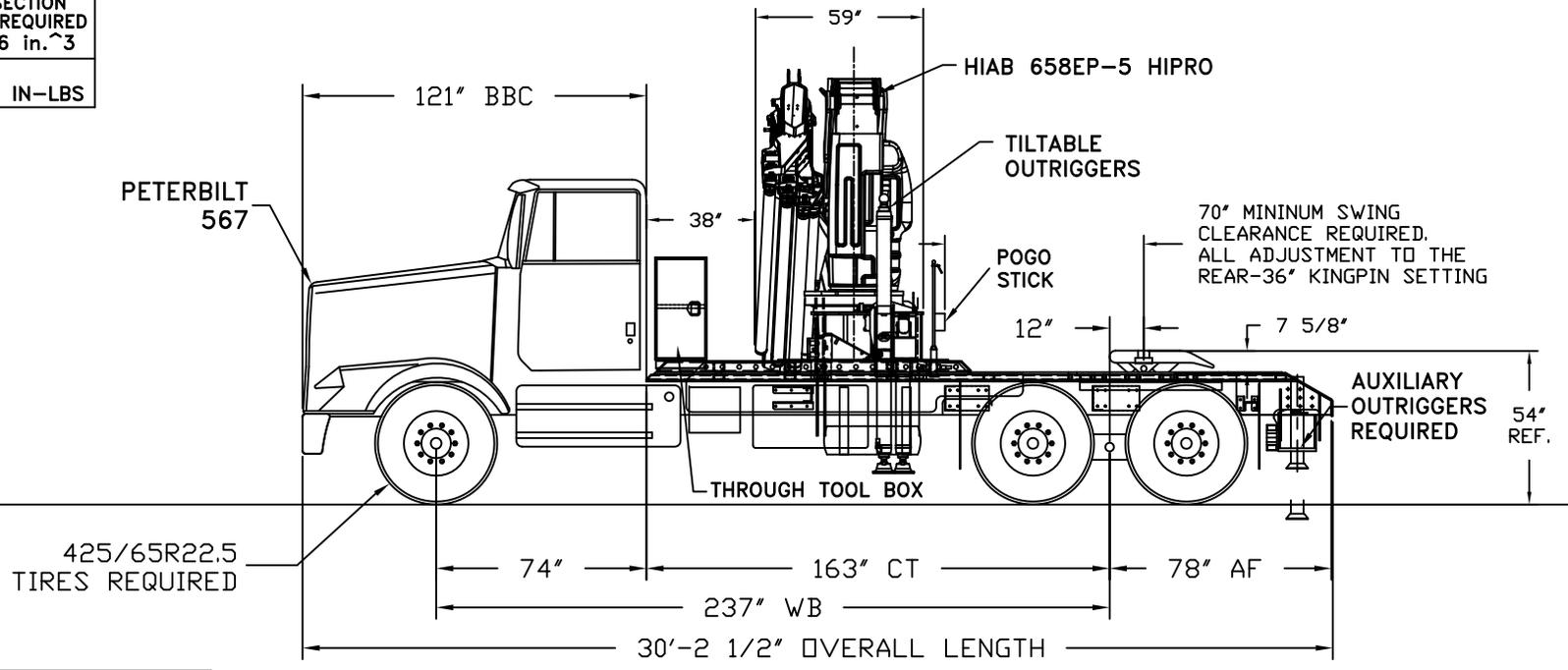


YIELD STRENGTH	CRANE MINIMUM SECTION MODULUS REQUIRED
120,000 P.S.I. YIELD	= 55.26 in. <sup>3</sup>
CRANE MINIMUM RBM/RAIL = 6,630,905 IN-LBS	

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



**TRACTOR, HIAB CRANE AND ACCESSORIES WEIGHT DISTRIBUTION, NO LOAD AT FIFTH WHEEL.**

FRONT AXLE LOAD	= 19,220 LBS.
TANDEM AXLE LOAD	= 25,240 LBS.
FRONT AXLE PERCENTAGE	= 43 %
TANDEM AXLE PERCENTAGE	= 57 %
GROSS VEHICLE WEIGHT	= 44,460 LBS.

**TRACTOR SPECIFICATIONS**

TRACTOR MODEL	= PETERBILT 567
WHEELBASE	= 237"
CAB TO TANDEM	= 163"
AXLE-TO-FRAME	= 78"
FRONT AXLE TARE WEIGHT	= 11,400 LBS.
TANDEM AXLE TARE WEIGHT	= 9,300 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	= 38.00 in. <sup>3</sup>
MINIMUM RBM/RAIL = 4,560,000 IN-LBS	

**NOTES:**  
 DOUBLE FRAME RAIL REQUIRED.  
 FRAME RAIL MINIMUM OF 38.00 in.<sup>3</sup> SECTION MODULUS REQUIRED.  
 FULL SUBFRAME REQUIRED:  
 4" x 2" x 3/8" RECT. TUBING (ON TOP OF RAIL)  
 4" x 2" x 3/8" RECT. TUBING (CROSSMEMBERS)  
 1/2" FULL WIDTH BOTTOM PLATE  
 3/4" FULL WIDTH TOP PLATE  
 LARGE CRANE FISH PLATES REQUIRED.  
 TARE WEIGHTS WERE ESTIMATED.

TRACTOR RUNS IN U.S. (RULES FOR MOST STATES)  
 20,000 LBS. ALLOWED ON FRONT AXLE.  
 34,000 LBS. ALLOWED ON TANDEM AXLE.  
 52,500 LBS. ALLOWED FOR GROSS WEIGHT. (22')

**TRACTOR, HIAB CRANE AND ACCESSORIES WEIGHT DISTRIBUTION, MAX. LOAD AT FIFTH WHEEL.**

FRONT AXLE LOAD	= 18,810 LBS.
TANDEM AXLE LOAD	= 33,690 LBS.
FRONT AXLE PERCENTAGE	= 36 %
TANDEM AXLE PERCENTAGE	= 64 %
FIFTH WHEEL LOAD	= 8,040 LBS.
GROSS VEHICLE WEIGHT	= 52,500 LBS.

**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.

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

**Cargotec USA**  
 Cargotec USA Inc.  
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 Perrysburg, Ohio 43551  
 Tel (419) 482-6000  
 Fax (419) 482-6001

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. 658 / SALES

Drawing Title: <b>HIAB 658EP-5 HI PRO</b>	
Project Name: <b>SALES LAYOUT</b>	
Drawn by/Date: <b>EJM 8-8-17</b>	Size: Part No.
Approval: Date Approved:	Scale: unit wt. Eng. job no.: