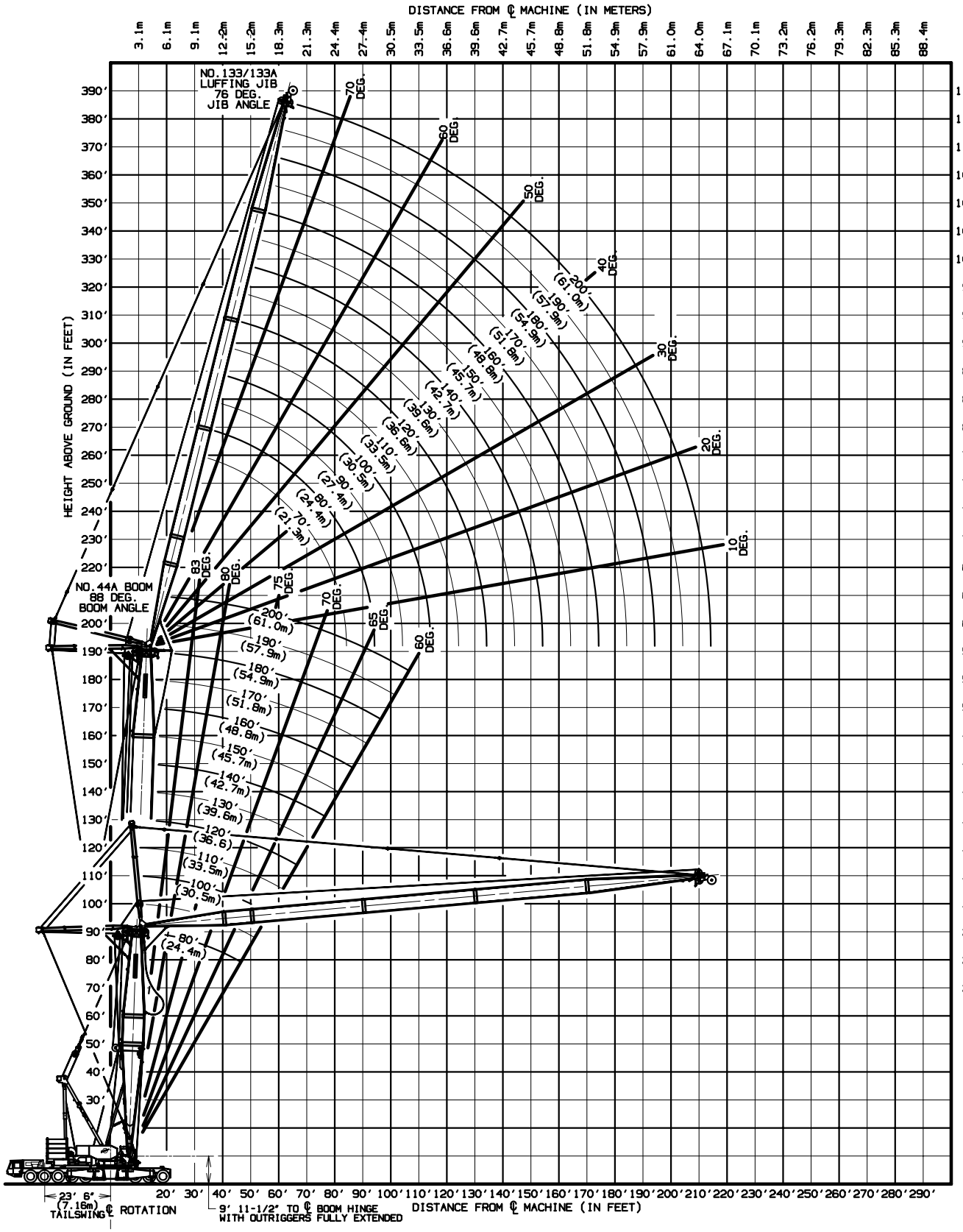
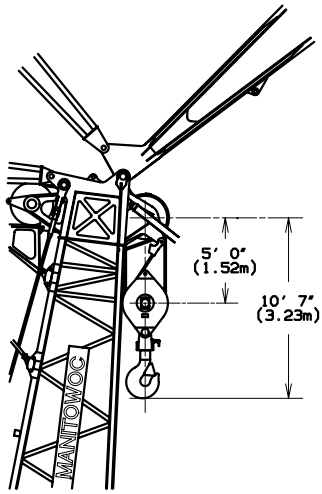


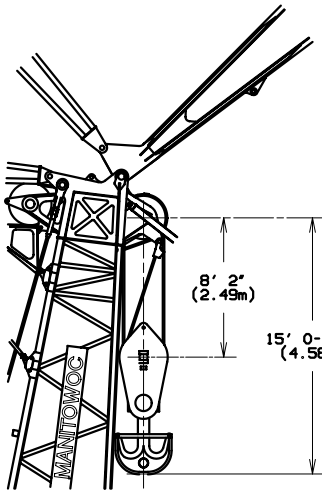

SEE PAGE 2,3,& 4 FOR DETAILS

M-250T RANGE DIAGRAM (#44A HEAVY LIFT BOOM & #133/#133A LUFFING JIB)

174649-1
11-12-97

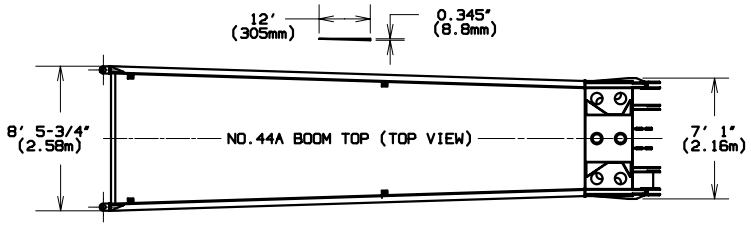


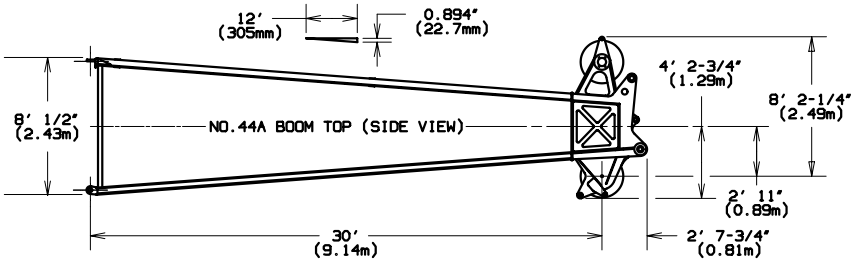

100 TON BLOCK TO BOOM POINT
MINIMUM DISTANCE
#44A BOOM - 6 PARTS OF LINE

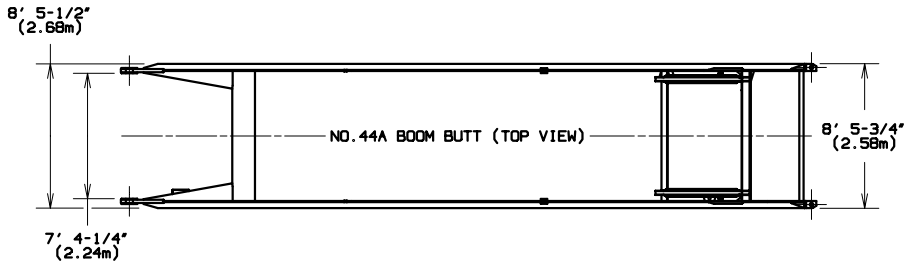


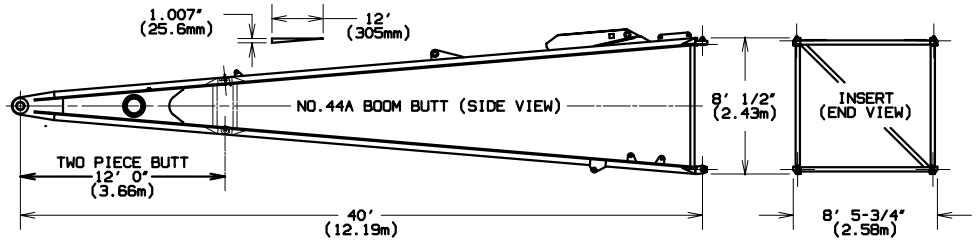

300 TON BLOCK TO BOOM POINT
MINIMUM DISTANCE
#44A BOOM - 18 PARTS OF LINE

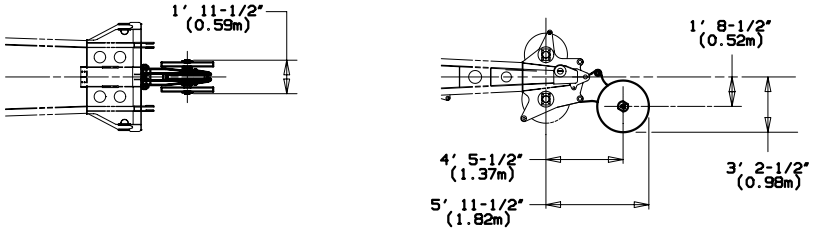
MINIMUM DISTANCE MEASUREMENTS BASED ON 83° BOOM ANGLE.
BOOM ANGLES ABOVE 83° ARE NOT ALLOWED WITH A LOAD BLOCK
HANGING FROM THE LOWER BOOM POINT.



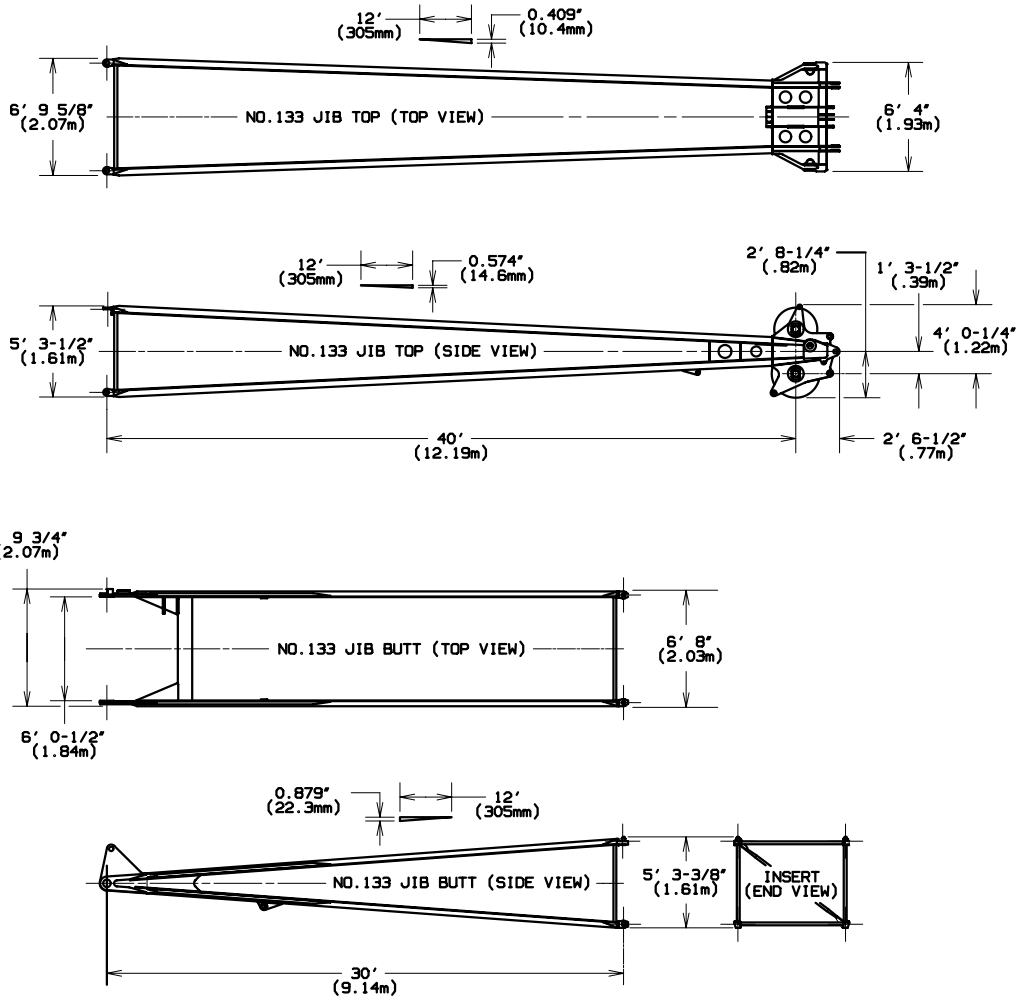



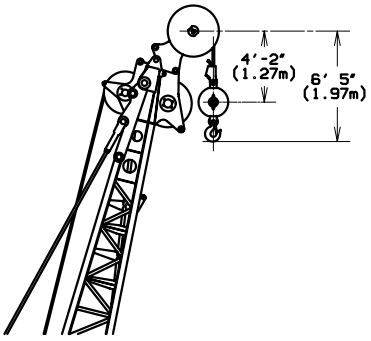





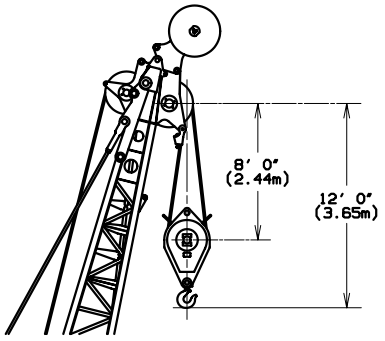

## UPPER JIB POINT



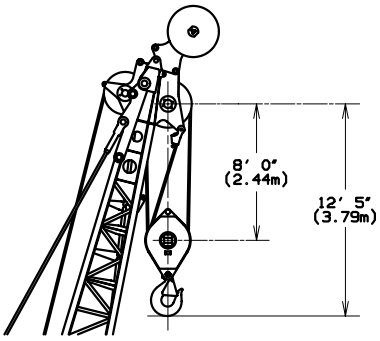

NOTE: JIB NO.133 (SHOWN) IS IDENTICAL TO JIB NO.133A EXCEPT FOR THE JIB CONNECTORS. JIB NO.133 HAS FACT CONNECTORS, JIB NO.133A HAS STANDARD CONNECTORS.



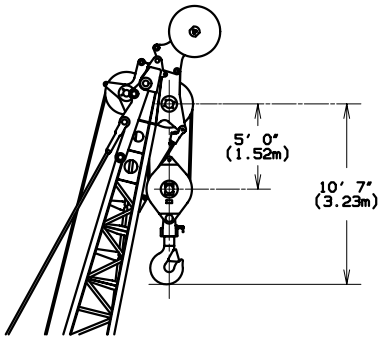

15 TON SWIVEL HOOK & WEIGHT BALL
TO UPPER JIB POINT MINIMUM DISTANCE
#133 JIB - 1 PART OF LINE




30 TON BLOCK TO JIB POINT
MINIMUM DISTANCE
#133 JIB - 2 PARTS OF LINE




60 TON BLOCK TO JIB POINT
MINIMUM DISTANCE
#133 JIB - 4 PARTS OF LINE




100 TON BLOCK TO JIB POINT
MINIMUM DISTANCE
#133 JIB - 6 PARTS OF LINE

MINIMUM DISTANCE MEASUREMENTS
BASED ON 76° JIB ANGLE.

NOTE 1: THIS DRAWING IS INTENDED ONLY AS A GUIDE TO ASSIST IN JOB PLANNING.

NOTE 2: FOR PLANNING A LIFT, THIS DRAWING IS TO BE USED IN CONJUNCTION WITH APPROPRIATE CAPACTIY CHARTS, RANGE CHART, LOAD LINE SPECIFICATIONS, RIGGING DRAWING, AND OUTLINE DIMENSIONS.

NOTE 3: FOR PLANNING LIFTS WHERE CLEARANCES ARE LIMITED AND ACCURACY IS DESIRED, A DETAILED LAYOUT SHOULD BE PREPARED.

NOTE 4: DISTANCE OF MANITOWOC LOAD BLOCK TO BOOM POINT BASED ON 2 1/2 DEGREE FLEET ANGLE OR PHYSICAL LIMITATIONS.

NOTE 5. WHEN EQUIPPED WITH HOIST LIMIT CONTROL, LOAD BLOCK TO BOOM POINT MINIMUM DISTANCE MAY BE MORE THAN INDICATED. SEE OPERATOR' MANUAL FOR "HOIST LIMIT CONTROL".

NOTE 6: MAXIMUM BOOM ANGLE 88 DEGREES FOR NO.44A BOOM WITH NO.133/133A LUFFING JIB. MAXIMUM JIB ANGLE 76 DEGREES FOR NO.133/133A LUFFING JIB WITH NO.44A BOOM AT AN 88 DEGREE BOOM ANGLE.

NOTE 7 JIB NO.133 (SHOWN) IS IDENTICAL TO JIB NO.133A EXCEPT FOR THE JIB CONNECTORS. JIB NO.133 HAS FACT CONNECTORS, JIB NO.133A HAS STANDARD CONNECTORS.