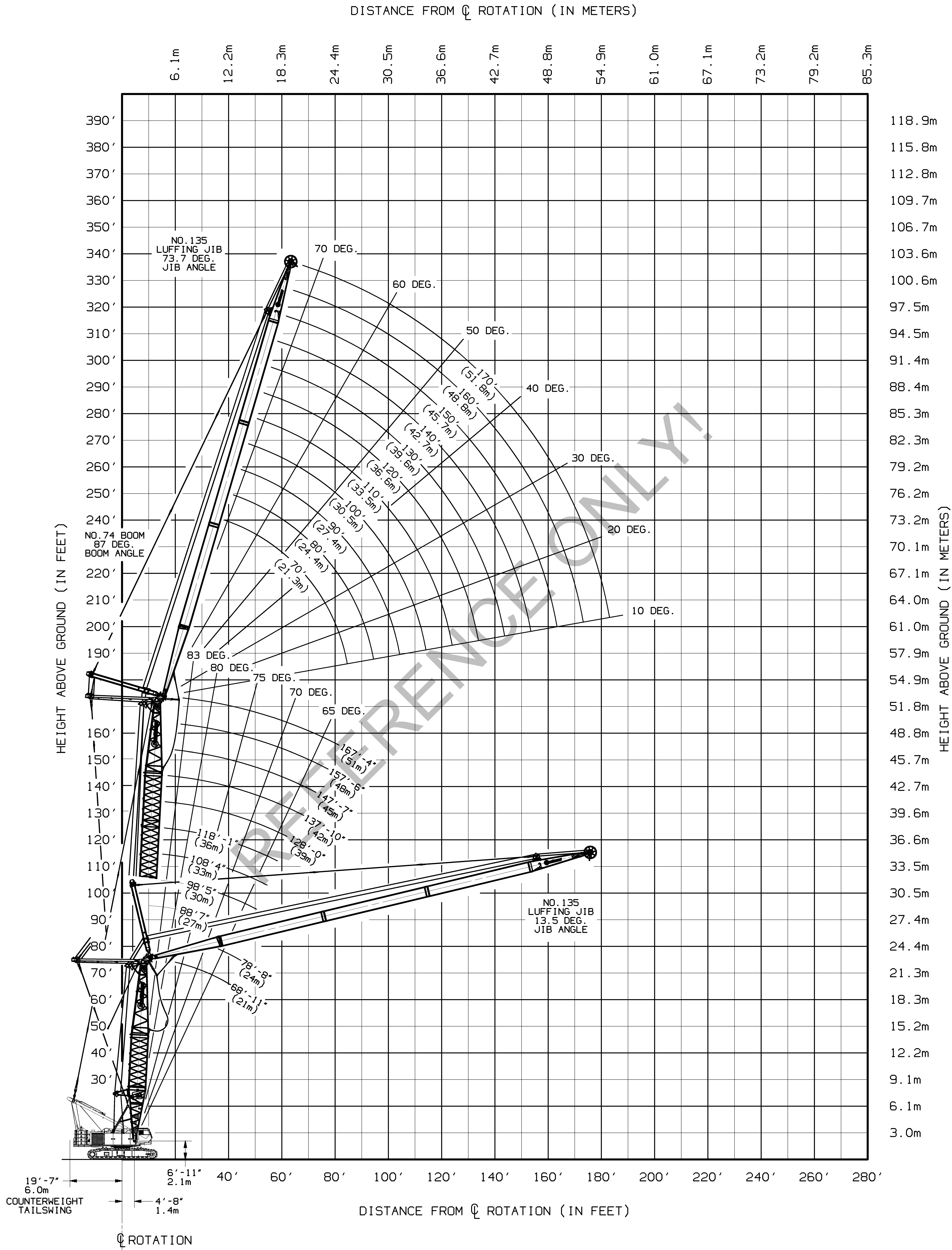
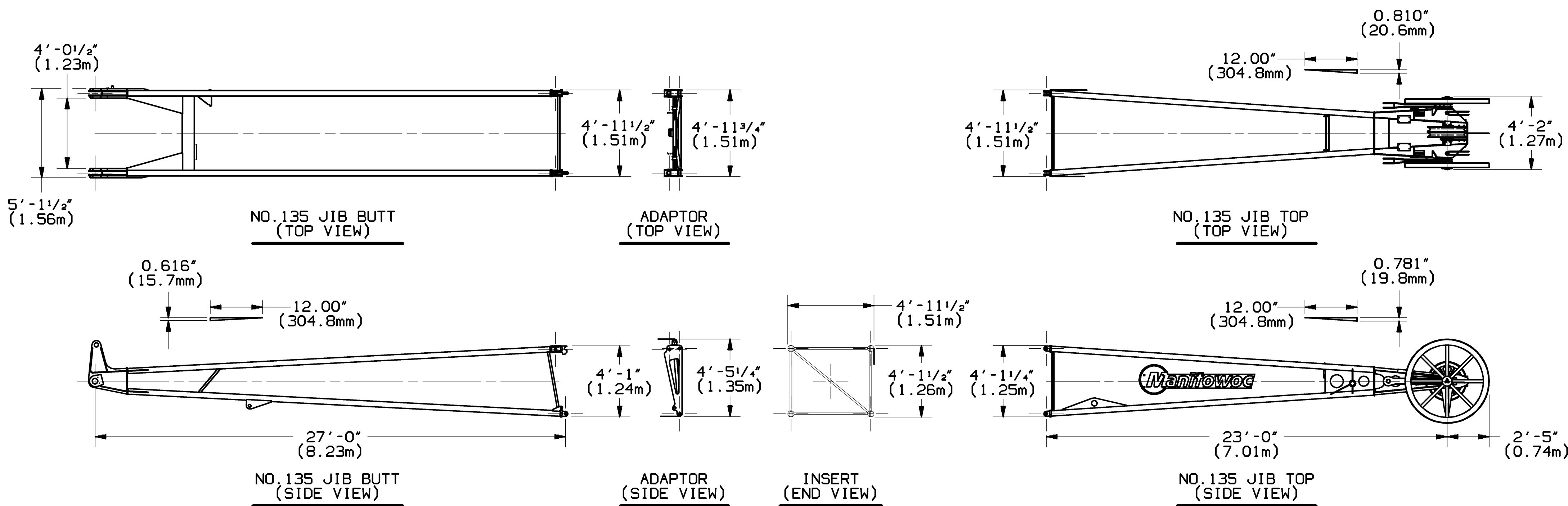




DATE	SCALE	Manitowoc Cranes, Inc. Manitowoc, Wisconsin		REVISION
01-23-13	1/16"=1'		DIAGRAM RANGE	
DRAWING NO.	DR. KJK	MODEL MLC165	#74 BOOM & #135 LUFFING JIB	
81023475	CK. JVE			
	APP. JVE			



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

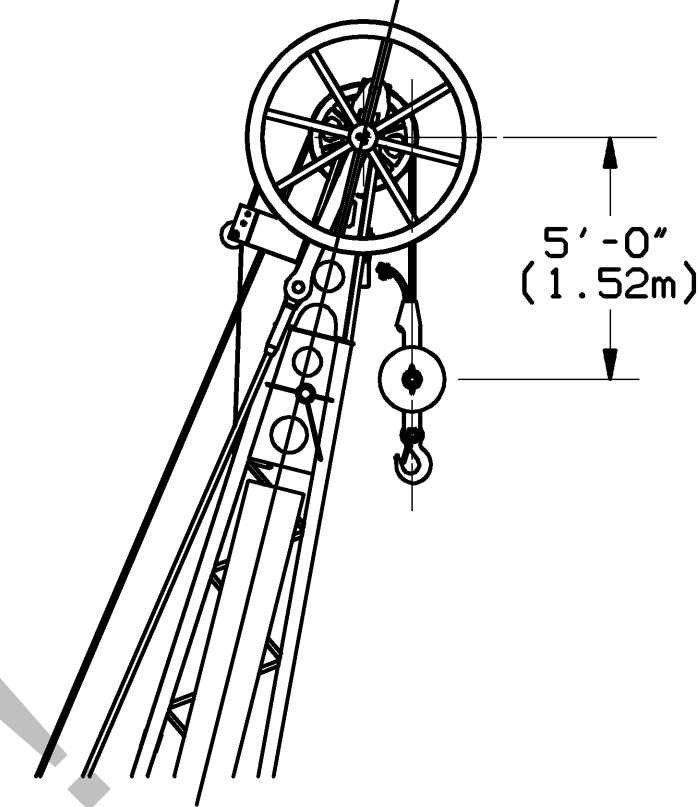
NOTE 2: FOR PLANNING A LIFT, THIS DRAWING IS TO BE USED IN CONJUNCTION WITH APPROPRIATE CAPACITY CHARTS, RANGE CHART, WIRE ROPE SPECIFICATIONS, RIGGING DRAWING, AND OUTLINE DIMENSIONS.

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

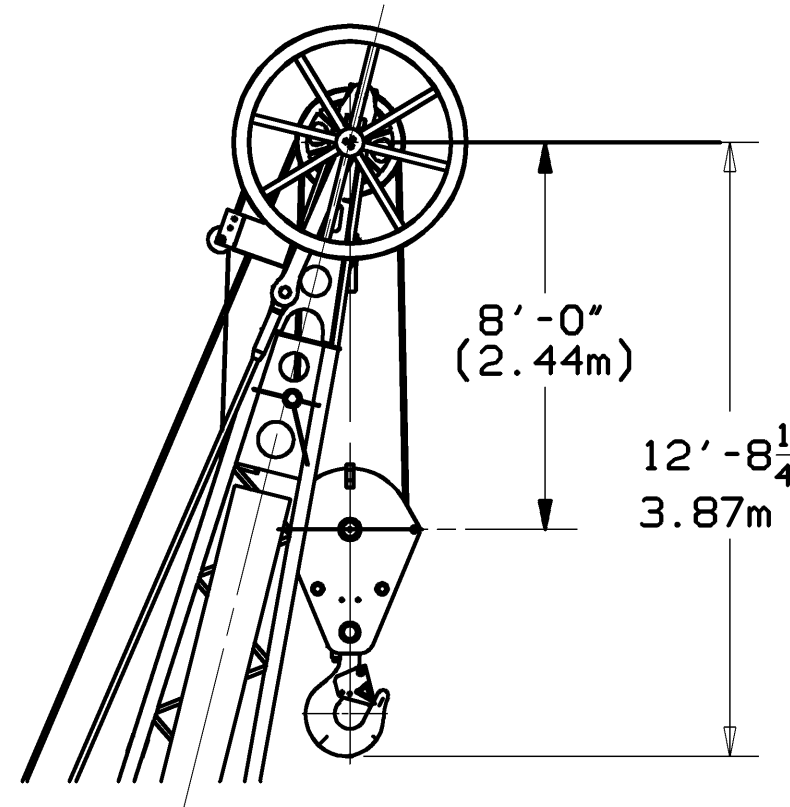
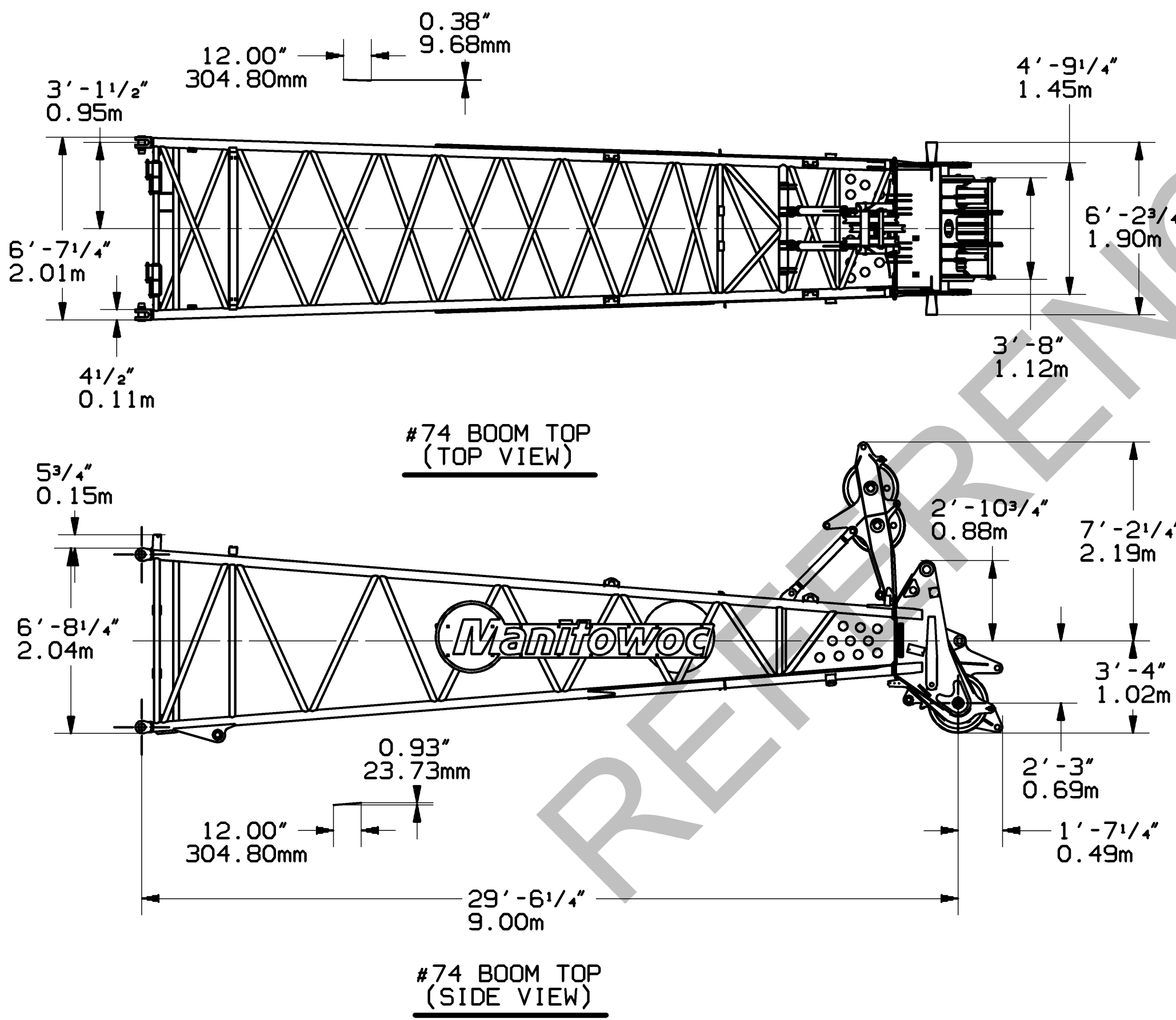
NOTE 4: WHEN EQUIPPED WITH BLOCK-UP LIMIT CONTROL, LOAD BLOCK TO BOOM POINT/JIB POINT MINIMUM DISTANCE MAY BE MORE THAN INDICATED. SEE OPERATOR'S MANUAL FOR "BLOCK-UP LIMIT CONTROL".

NOTE 5: MAXIMUM BOOM ANGLE 87 DEGREES FOR NO.74 BOOM WITH NO.135 LUFFING JIB. MAXIMUM JIB ANGLE 73.7 DEGREES FOR NO.135 LUFFING JIB WITH 170 FT. BOOM AT 87 DEGREE BOOM ANGLE. SEE CAPACITY CHARTS FOR MAXIMUM LUFFING JIB ANGLES FOR SHORTER BOOM CONFIGURATIONS.

NOTE 6: MAXIMUM BOOM AND JIB LENGTHS SHOWN ON SHEET 1 ARE FOR MACHINE EQUIPPED WITH SERIES 2 COUNTERWEIGHT. IN ALL CASES, REFER TO CRANE BOOM RIGGING OR CAPACITY CHART FOR MAXIMUM LENGTHS.

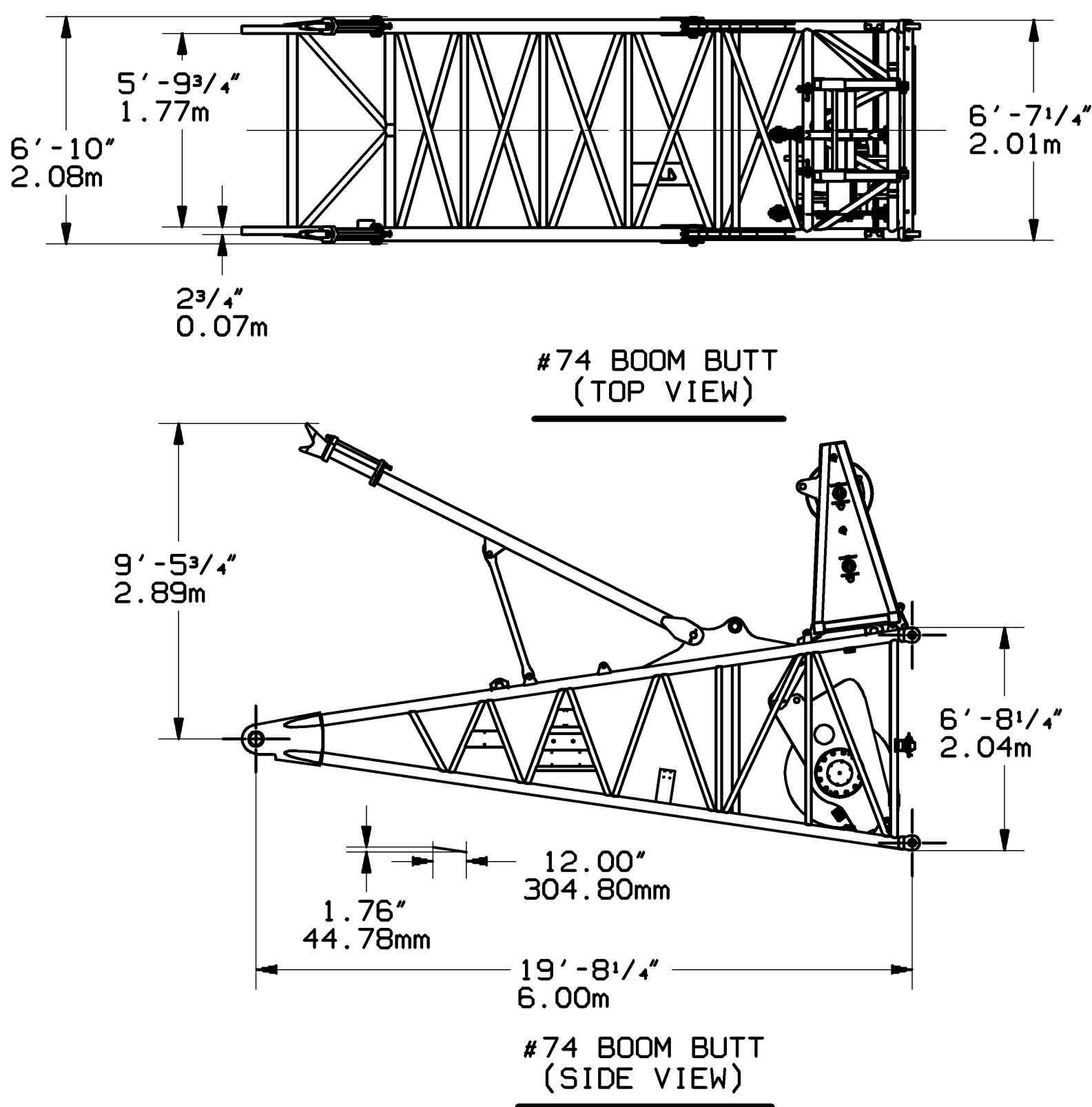


15 US TON (14 METRIC TON)
SWIVEL HOOK & WEIGHT BALL
TO JIB POINT MINIMUM DISTANCE
NO.135 JIB - SINGLE PART LINE



60 US TON (54.54 METRIC TON)
BLOCK TO JIB POINT
MINIMUM DISTANCE
NO.135 JIB - 4 PARTS OF LINE

MINIMUM DISTANCE MEASUREMENTS FROM MANITOWOC
LOAD BLOCK TO JIB POINT SHOWN ABOVE BASED ON
76 DEGREE JIB ANGLE AND PHYSICAL LIMITATIONS.



DATE	SCALE	Manitowoc Cranes, Inc.	REVISION
01-23-13	1/4"=1'	Manitowoc, Wisconsin	DIAGRAM RANGE
DRAWING NO.	CK-JVE	MODEL MLC165	#74 BOOM & #135 LUFFING JIB
81023475	APP-JVE		