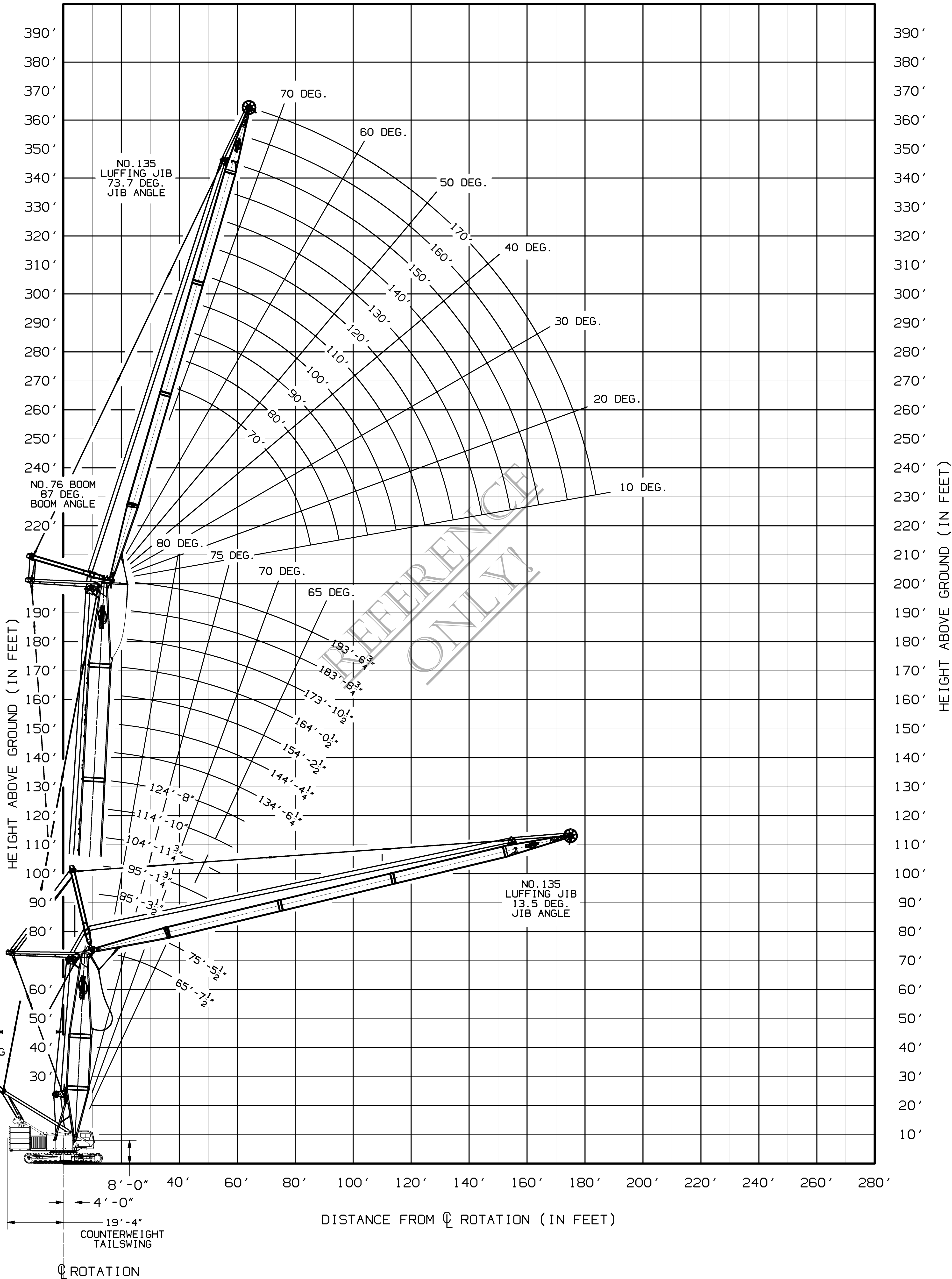
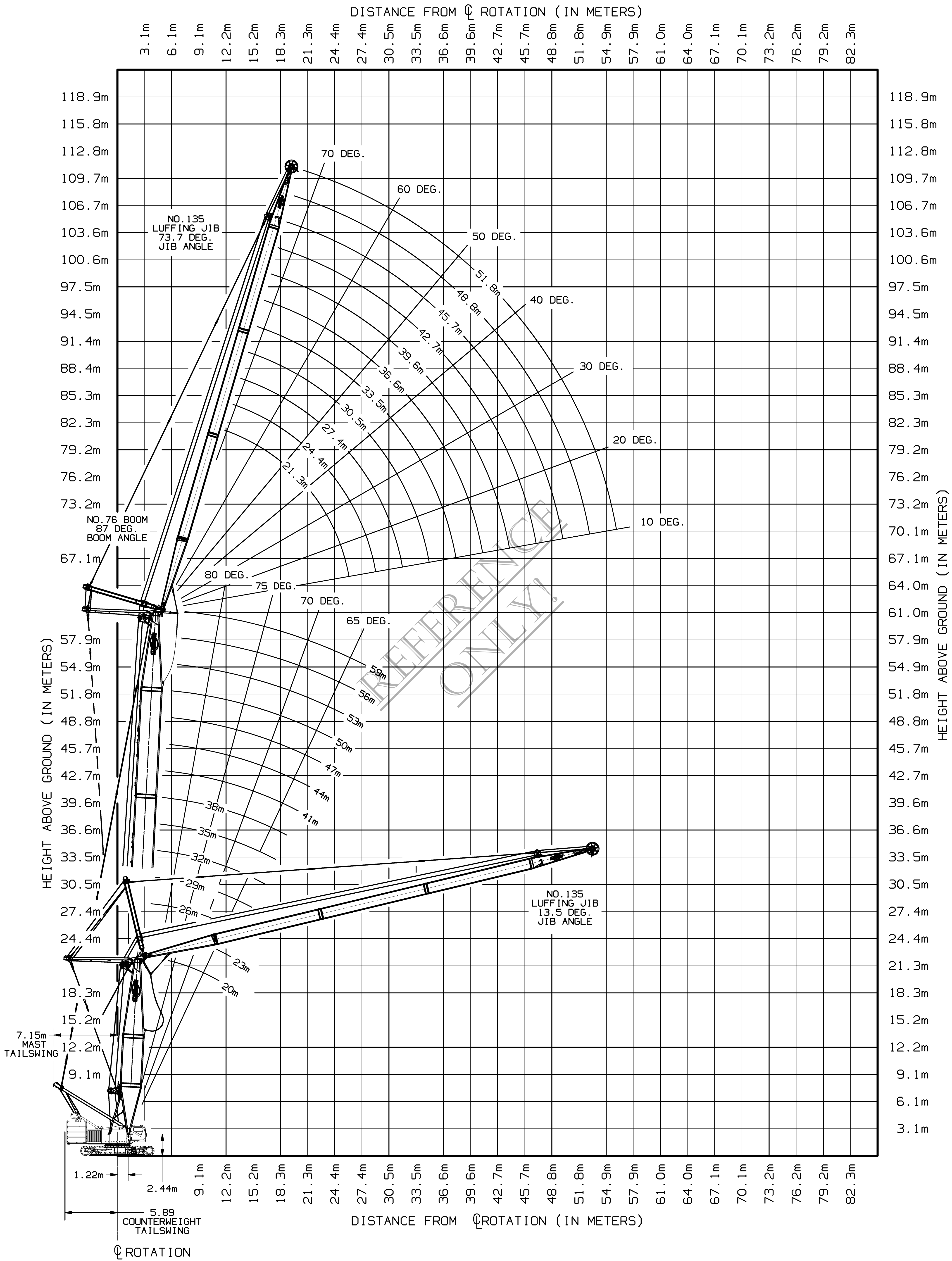


DISTANCE FROM  $\odot$  ROTATION (IN FEET)

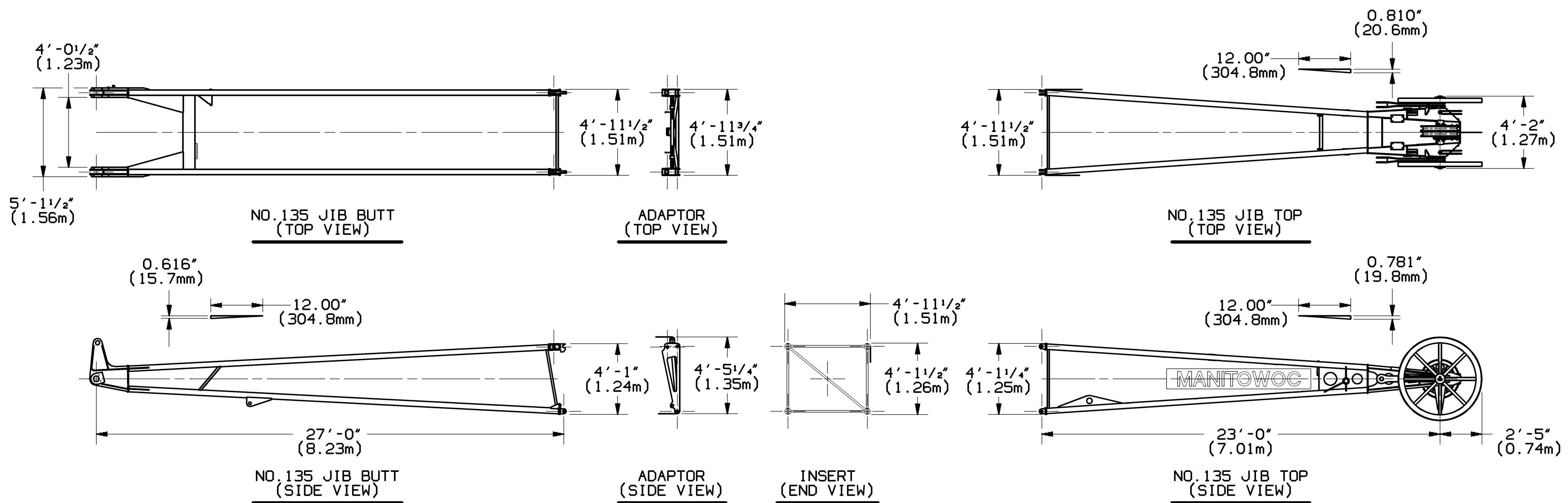
20' 40' 60' 80' 100' 120' 140' 160' 180' 200' 220' 240' 260' 280'



|             |          |                        |                            |
|-------------|----------|------------------------|----------------------------|
| DATE        | SCALE    | Manitowoc Cranes, Inc. | REVISION                   |
| 09-14-07    | 1/16"=1' | Manitowoc, Wisconsin   | DIAGRAM - RANGE ASSEMBLY - |
| DRAWING NO. | CK:TWB   | MODEL 14000            | NO. 76 BOOM &              |
| A20322      | APPR:JW  |                        | NO. 135 LUFFING JIB        |



|             |          |                                                |                            |          |
|-------------|----------|------------------------------------------------|----------------------------|----------|
| DATE        | SCALE    | Manitowoc Cranes, Inc.<br>Manitowoc, Wisconsin | DIAGRAM - RANGE ASSEMBLY - | REVISION |
| 09-14-07    | 1/16"=1' |                                                |                            |          |
| DRAWING NO. | CK:TWB   | MODEL 14000                                    | NO. 76 BOOM &              |          |
| A20322      | APPR:JW  |                                                | NO. 135 LUFFING JIB        |          |



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

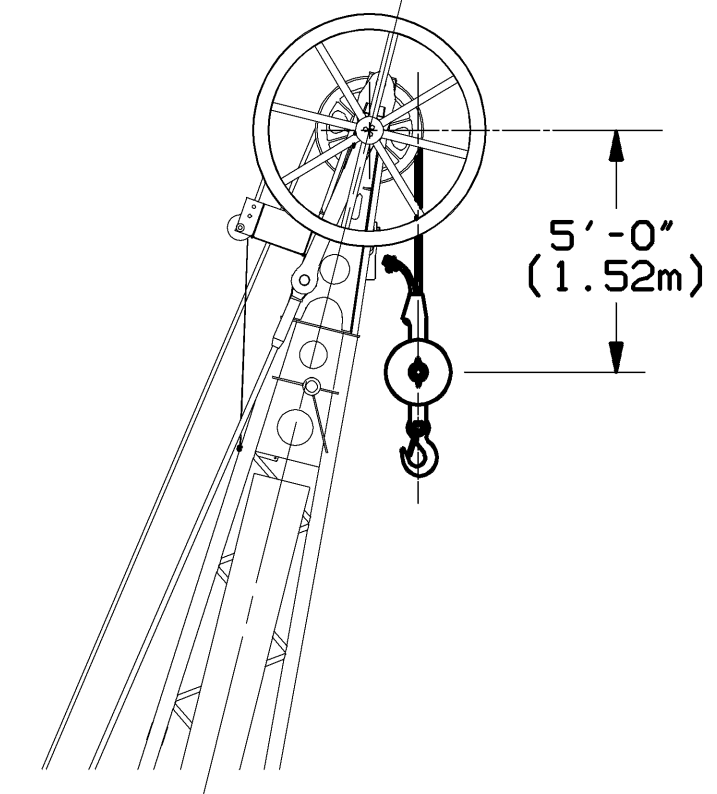
NOTE 2: FOR PLANNING A LIFT, THIS DRAWING IS TO BE USED IN CONJUNCTION WITH APPROPRIATE CAPACITY CHARTS, RANGE CHART, WIRE ROPE SPECIFICATIONS, RIGGING DRAWING, AND OUTLINE DIMENSIONS.

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

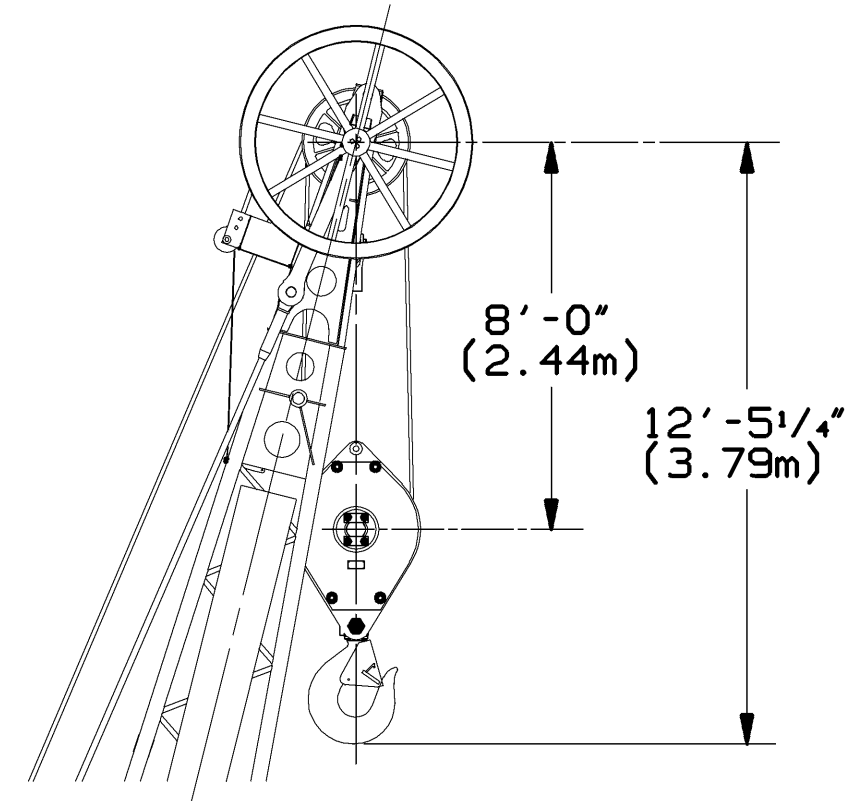
NOTE 4: WHEN EQUIPPED WITH BLOCK-UP LIMIT CONTROL, LOAD BLOCK TO BOOM POINT/JIB POINT MINIMUM DISTANCE MAY BE MORE THAN INDICATED. SEE OPERATOR'S MANUAL FOR "BLOCK-UP LIMIT CONTROL".

NOTE 5: MAXIMUM BOOM ANGLE 87 DEGREES FOR NO.76 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 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.

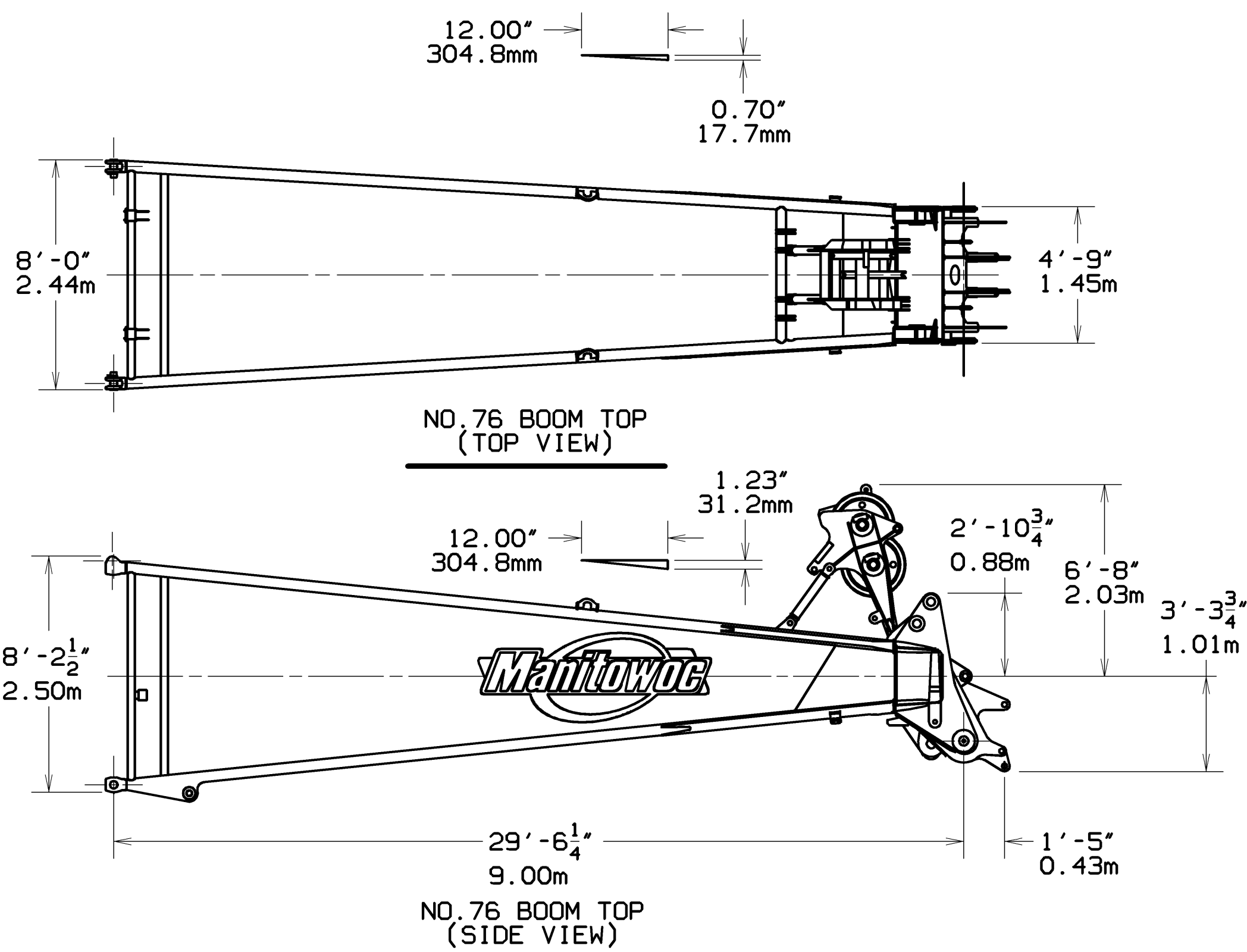
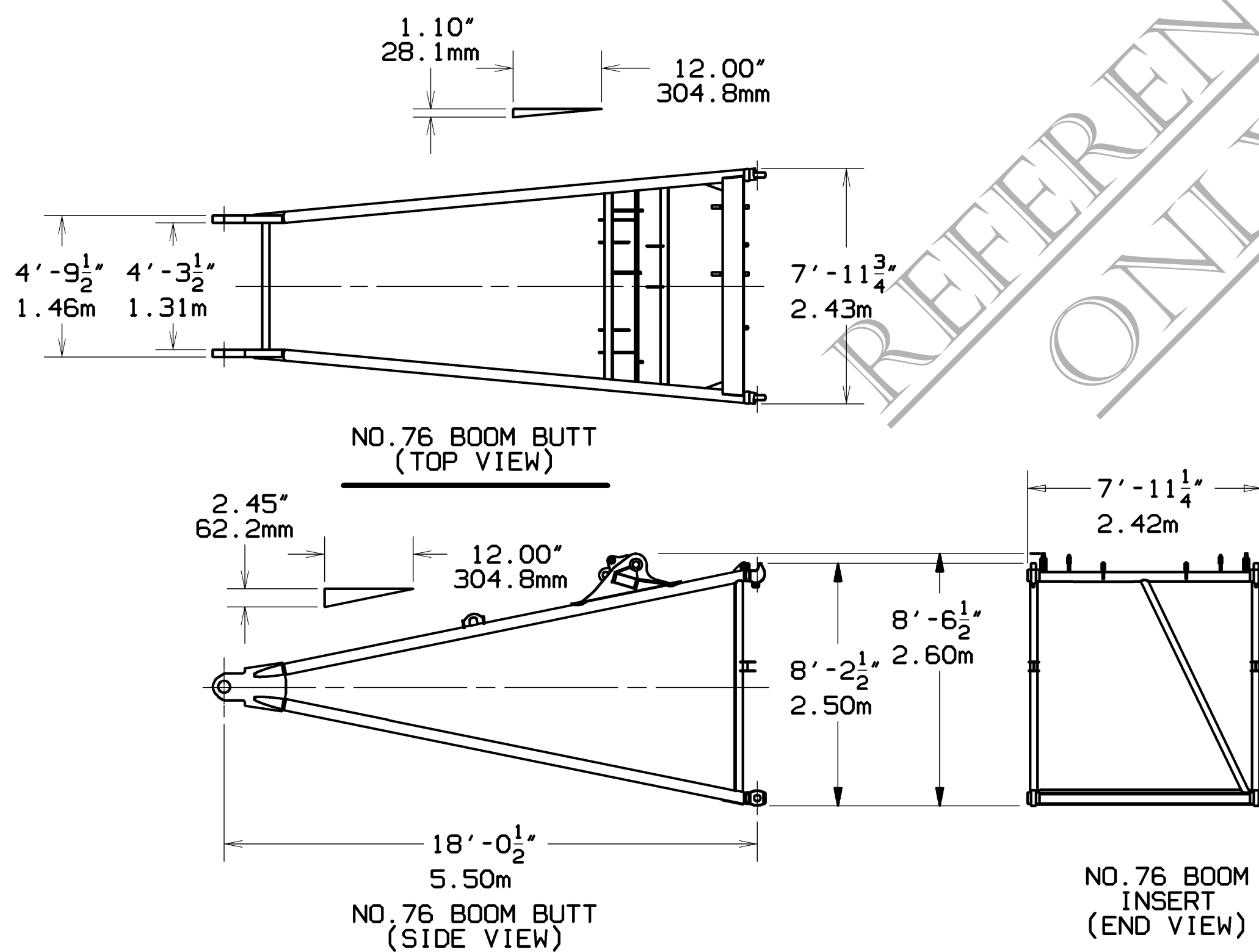


15 US TON (14 METRIC TON)  
SWIVEL HOOK & WEIGHT BALL  
TO JIB POINT MINIMUM DISTANCE  
NO.135 JIB - SINGLE PART LINE



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.<br>Manitowoc, Wisconsin | DIAGRAM - RANGE ASSEMBLY -<br>NO.76 BOOM &<br>NO.135 LUFFING JIB | REVISION |
| 09-14-07    | 1/16"=1' |                                                |                                                                  |          |
| DRAWING NO. | DR:NVS   | MODEL 14000                                    |                                                                  |          |
| A20322      | CK:TWB   |                                                |                                                                  |          |
| SHT. 3 OF 3 | APPR:JW  |                                                |                                                                  |          |