

INSERTS, PENDANTS, AND TIMBERS REQ'D. FOR VARIOUS BOOM LENGTHS													
ITEM NO.	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	(45)	(46)	(33)	(47)	EQUALIZER PLATFORM ITEM 47 POSITION SEE VIEW C SEE (11)
DWG. NO.	174425	174422	174514	171228	171229	277382 DWG. 78145	277383 DWG. 78145	277384 DWG. 78145	174915	171697	666852	176358	
BOOM LENGTH	#49A 20 FT 6.10 M INSERT	#49A 40 FT 12.19 M INSERT	#49A-44 30 FT 9.14 M TRANSITION INSERT	#44 20 FT 6.10 M INSERT	#44 40 FT 12.19 M INSERT	10 FT 1.00 3.07 M PENDANT	20 FT 1.50 6.13 M PENDANT	40 FT 3.00 12.27 M PENDANT	WIRE ROPE TIMBER	WIRE ROPE TIMBER	(OPTIONAL) PENDANT TIE DOWN STRAPS SEE (5)	EQUALIZER PLATFORM SEE (11)	
FEET	METERS												
100 BASIC	42.7	0 FT OF INSERTS	1	0	0	4	4	0	1	1	8	1	29 FT 8.00(9.04 M) SEE (10)
120	48.8	0 FT OF INSERTS	1	1	0	4	8	0	1	2	12	1	49 FT 8.00(15.14 M) SEE (10)
140	42.7	40 FT(12.19 M) OF INSERTS	1	0	0	0	8	0	3	1	8	0	LANDS ON ITEM 39 PLATFORM
160	48.8	40 FT(12.19 M) OF INSERTS	1	1	0	0	4	4	3	2	10	0	LANDS ON ITEM 39 PLATFORM
180	54.9	80 FT(24.4 M) OF INSERTS	OR 1 1	0 0	0 0	0 0	8 4	4 8	5 1	1 12	14 12	1	79 FT 4.75 (24.20 M)
200	61.0	80 FT(24.4 M) OF INSERTS	OR 1 1	1 1	0 0	0 0	4 12	8 4	5 5	2 2	16 18	1	99 FT 4.75 (30.29 M)
220	67.1	80 FT(24.4 M) OF INSERTS	OR 1 1	2 0	0 1	0 0	8 0	8 12	5 5	3 3	20 18	1	119 FT 4.75 (36.39 M)
240	73.2	80 FT(24.4 M) OF INSERTS	OR 1 1	1 1	1 1	0 0	4 12	12 8	5 5	4 4	22 24	1	139 FT 4.75 (42.58 M)
260	79.2	80 FT(24.4 M) OF INSERTS	OR 1 1	2 0	1 2	0 0	8 0	12 16	5 5	5 5	26 24	1	159 FT 4.75 (48.58 M)
280	85.3	80 FT(24.4 M) OF INSERTS	OR 1 1	1 1	2 2	0 0	4 12	16 12	5 5	6 6	28 30	1	179 FT 4.75 (54.68 M)
300	91.4	80 FT(24.4 M) OF INSERTS	OR 1 1	2 0	2 3	0 0	8 0	16 20	5 5	7 7	32 30	1	199 FT 4.75 (60.77 M)

INSERT NOTES:

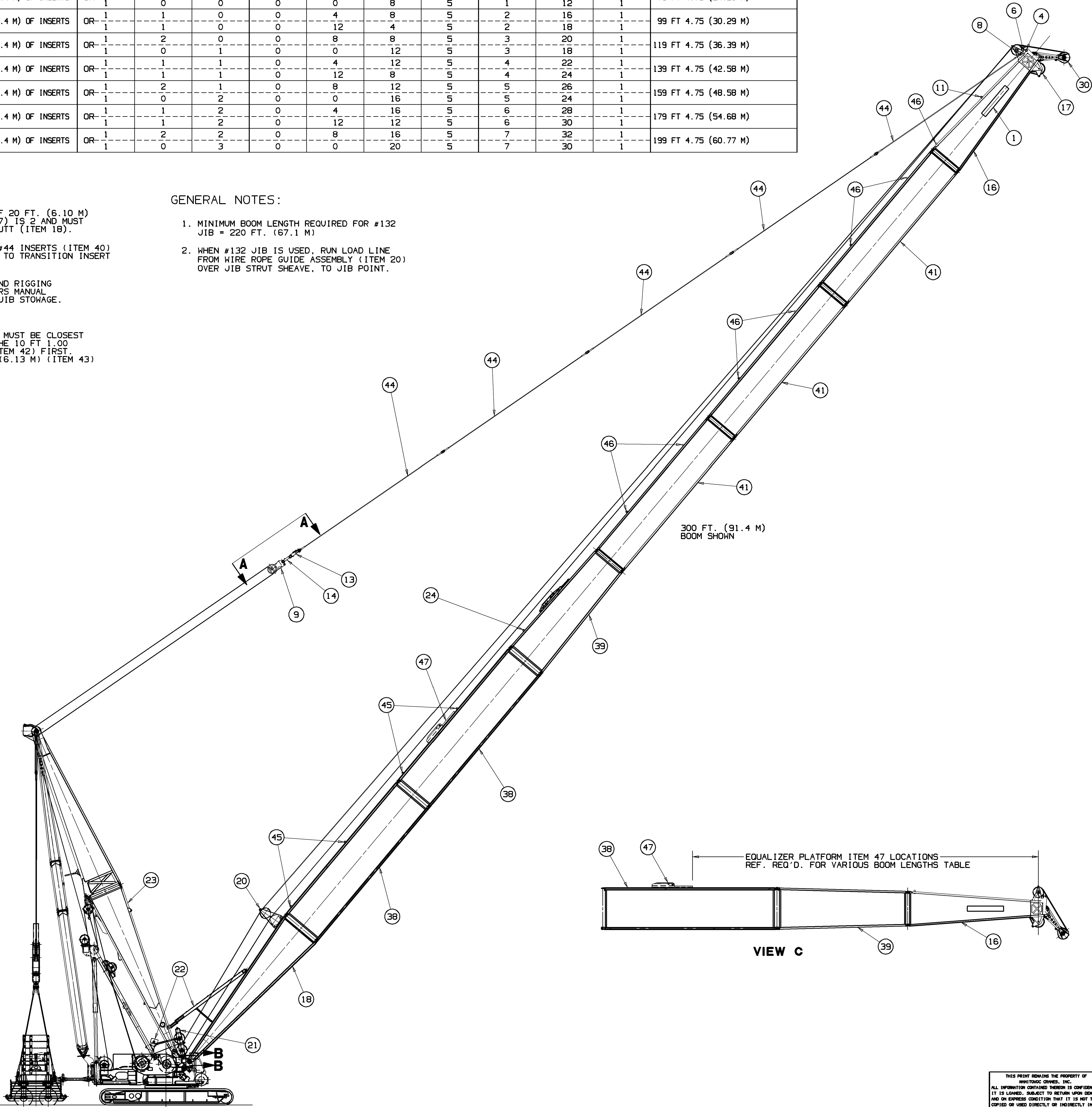
- THE MAXIMUM NUMBER OF 20 FT. (6.10 M) #49A INSERTS (ITEM 37) IS 2 AND MUST BE LOCATED NEXT TO BUTT (ITEM 18).
- THE 20 FT. (6.10 M) #44 INSERTS (ITEM 40) MUST BE LOCATED NEXT TO TRANSITION INSERT (ITEM 39).
- SEE CRANE ASSEMBLY AND RIGGING GUIDE IN THE OPERATORS MANUAL FOR INSTRUCTIONS ON JIB STOWAGE.

PENDANT NOTES:

- THE SHORTER PENDANTS MUST BE CLOSEST TO THE BOOM BUTT (THE 10 FT 1.00 (3.07 M) PENDANTS (ITEM 42) FIRST, THEN THE 20 FT 1.50 (6.13 M) (ITEM 43) PENDANTS).

GENERAL NOTES:

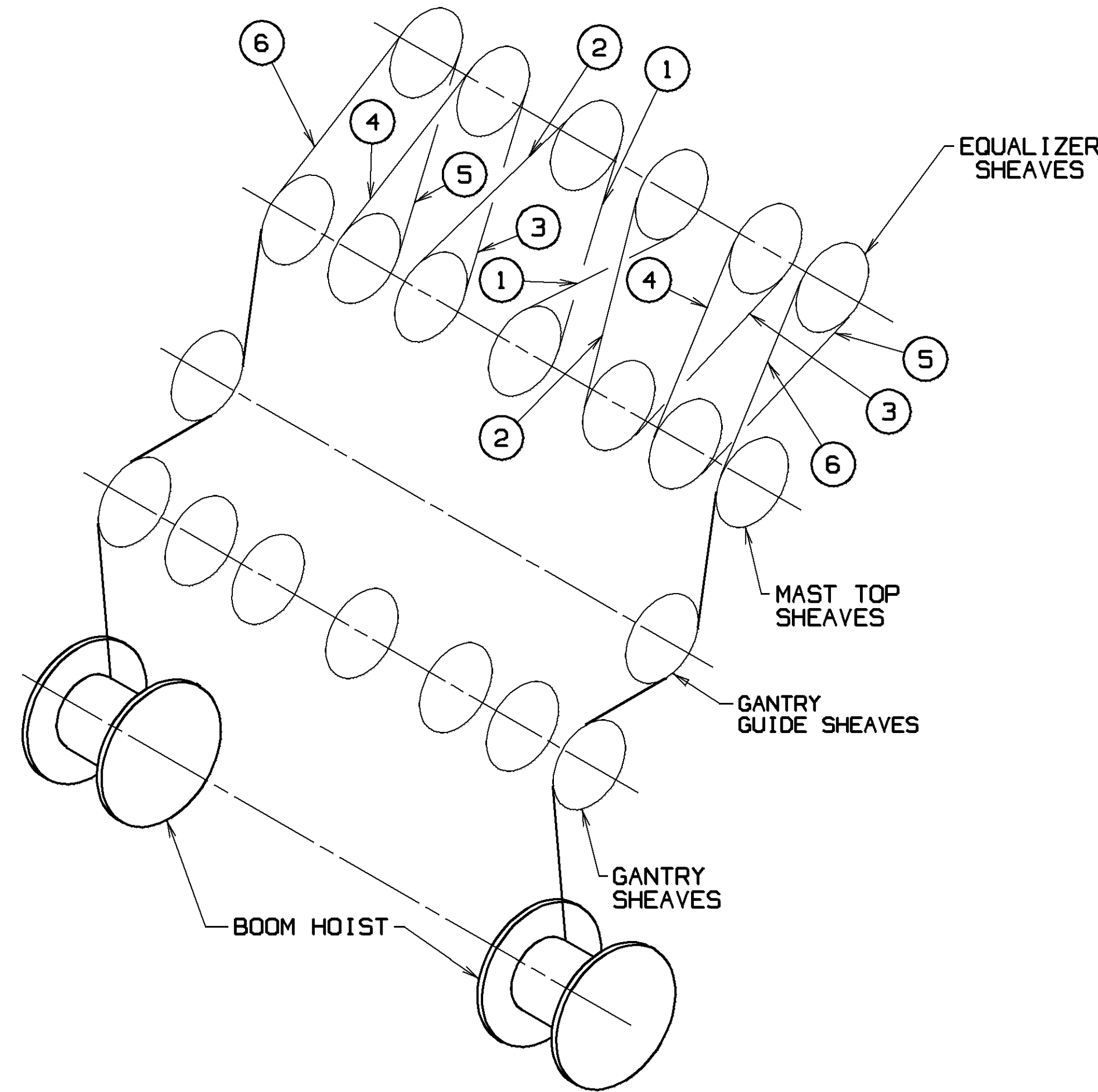
- MINIMUM BOOM LENGTH REQUIRED FOR #132 JIB = 220 FT. (67.1 M)
- WHEN #132 JIB IS USED, RUN LOAD LINE FROM WIRE ROPE GUIDE ASSEMBLY (ITEM 20) OVER JIB STRUT SHEAVE, TO JIB POINT.



BILL OF MATERIAL				
ITEM NO.	DESCRIPTION	QUANTITY	MATERIAL	QTY. IN STOCK
100 FT. (30.5 M) BASIC BOOM ALSO SEE REQ'D. FOR VARIOUS BOOM LENGTHS TABLE				
1	2BOOM SIGN	22656		
2	2END PLATE	76095		2
3				
4	2PIN	160720		
5	1BOOM ANGLE INDICATOR ASSEMBLY	168779		6
6	2PENDANT LINK	169785		
7	2EQUALIZER PENDANT LINK	169834		
8	4PIN	170690		
9	1EQUALIZER ASSEMBLY	171248		
10	2PIN	171500		2
11	1TIMBER (WIRE ROPE)	171704		
12	2PIN	172132		
13	2PENDANT LINK	172669		
14	2PENDANT LINK	172670		
15	2PIN	172675		
16	1#44 BOOM TOP (30 FT.)-(9.14 M)	172878		
17	1BOOM POINT SHAFT ASSEMBLY (LOWER)	172960		1
18	1#49A BOOM BUTT (40 FT.)-(12.19 M)	174551		
19	2WASHERS	174904		
20	1WIRE ROPE GUIDE ASSEMBLY	174944		
21	1WIRE ROPE GUIDE ASSEMBLY	174946		4
22	1BOOM STOP ASSEMBLY	174955		
23	1MAST ASSEMBLY	176113		
24				
25				
26				
27				
28				
OPTIONAL PARTS				
29				
30	1BOOM POINT ASSEMBLY (UPPER)	170419		1
31	1TIMBER (JIB STORAGE)	171697		7
32				
33				
34				
35				
36				

- 1.125 (29mm) WIRE ROPE.
- INSTALL WITH HEAD ON BOTTOM. WIRE END PLATE SCREWS TOGETHER.
- REMOVE WHEN JIB IS USED.
- BOOM STOP SUPPORT BEAM 174960 (REF.) AND MAST (ITEM 23) MUST BE IN PLACE BEFORE INSTALLING WIRE ROPE GUIDE ASSEMBLY (ITEM 21). ASSEMBLY (ITEM 21) MUST BE REMOVED PRIOR TO LOWERING MAST.
- SEE CRANE ASSEMBLY AND RIGGING GUIDE IN THE OPERATIONS MANUAL FOR INSTRUCTIONS ON PENDANT STOWAGE.
- NOT SHOWN
- | STOWAGE TIMBER REQUIRED | | |
|-------------------------|--------------|-------------------|
| STOWAGE CASE | | TIMBERS (ITEM 31) |
| #132 JIB IN #44 BOOM | | |
| FEET | METERS | |
| 40 | 12.19 | 8 |
| 60 - 120 | 18.29 - 36.6 | 16 |
- STOWAGE TIMBERS MUST BE REMOVED FROM BOOM SECTIONS FOR CRANE OPERATION.
- REFER TO SPECIFIC CAPACITY CHART FOR APPROPRIATE BOOM AND BOOM/JIB COMBINATIONS.
- SEE DWG. 176265 (INDICATOR ASSEMBLY P.A.T. DUMMY LOAD LINK INSTALLATION) FOR USE WITH THE P.A.T. LOAD MOMENT INDICATOR.
- PLATFORM MUST BE REMOVED TO ASSEMBLE OR DIS-ASSEMBLE THE BOOM.
- EQUALIZER PLATFORM ASSEMBLY ITEM 47 IS DESIGNED SOLELY TO FACILITATE PENDANT INSTALLATION AND REMOVAL. DO NOT APPLY TENSION TO BOOM HOIST LINE WHEN EQUALIZER IS PINNED TO PLATFORM.

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(1) PLACE	0.0	± 1.00	± 1.00	± 0.00	12-14-94	LS	LS	TSC	Mantowoc Cranes, Inc. Mantowoc, Wisconsin MODEL-250 MAX-ER 400 1.50 SWAGED PENDANTS (USA)
(2) PLACE	0.00	± 0.00	± 1.00	± 0.05					
(3) PLACE	0.000	± 0.000	± 1.00	± 0.05					
ANGLES		41° 30'		40° 30'					



BOOM HOIST REEVEING DIAGRAM FOR 12 PART LINE

2150 FEET (655.3 M) OF 1.00" (26mm)-6 X 26 HARRINGTON SEAL, EXTRA IMPROVED PLOW STEEL, ALTERNATE LAY, IWRC (719095) - B.S. 103,400 LBS. (46 900 kg)

OR

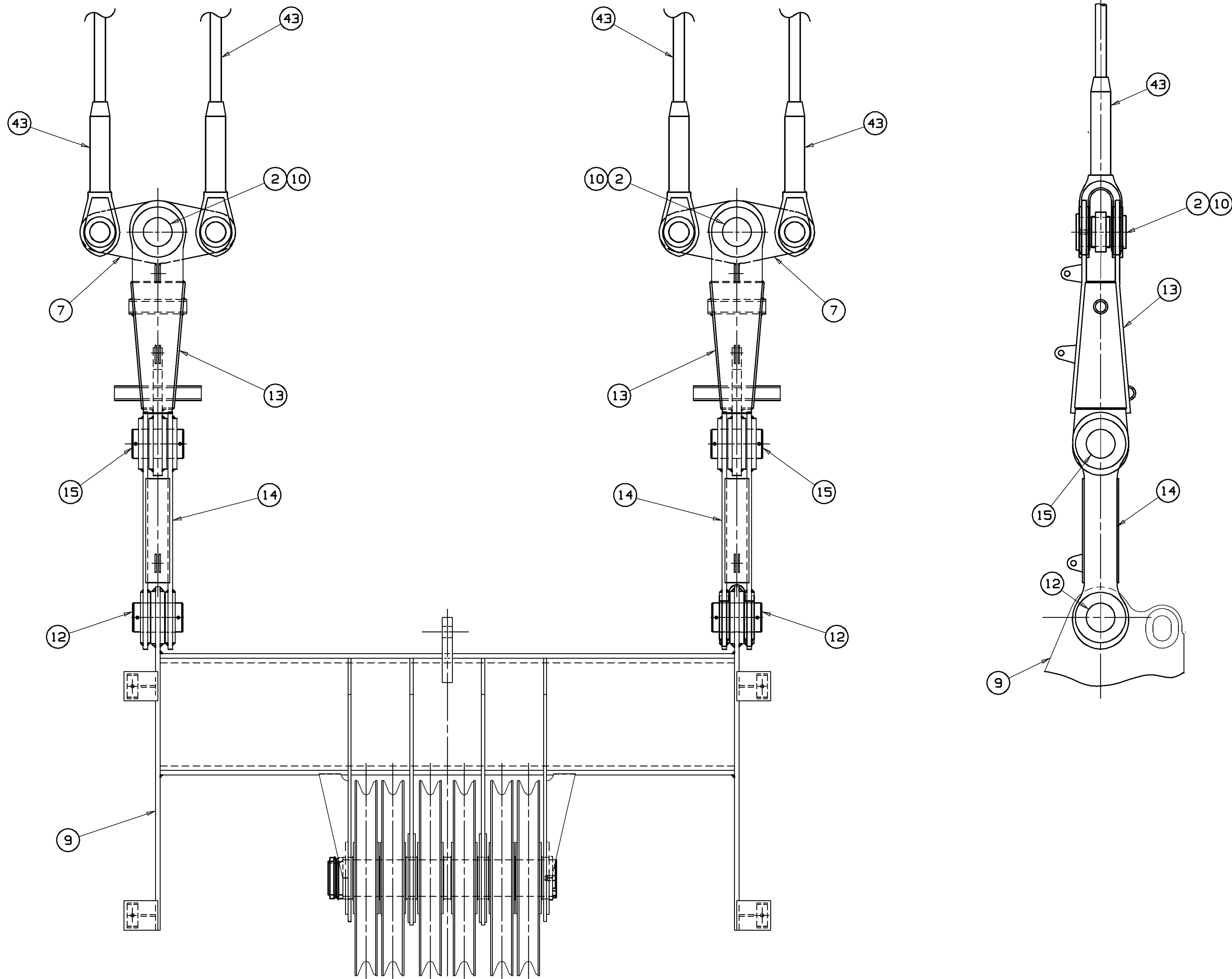
ALTERNATE WIRE ROPE

2150 FEET (655.3 M) OF 1.00" (26mm)-6 X 26 HARRINGTON SEAL, EXTRA IMPROVED PLOW STEEL, REGULAR LAY, IWRC (719276) - B.S. 103,400 LBS. (46 900 kg)

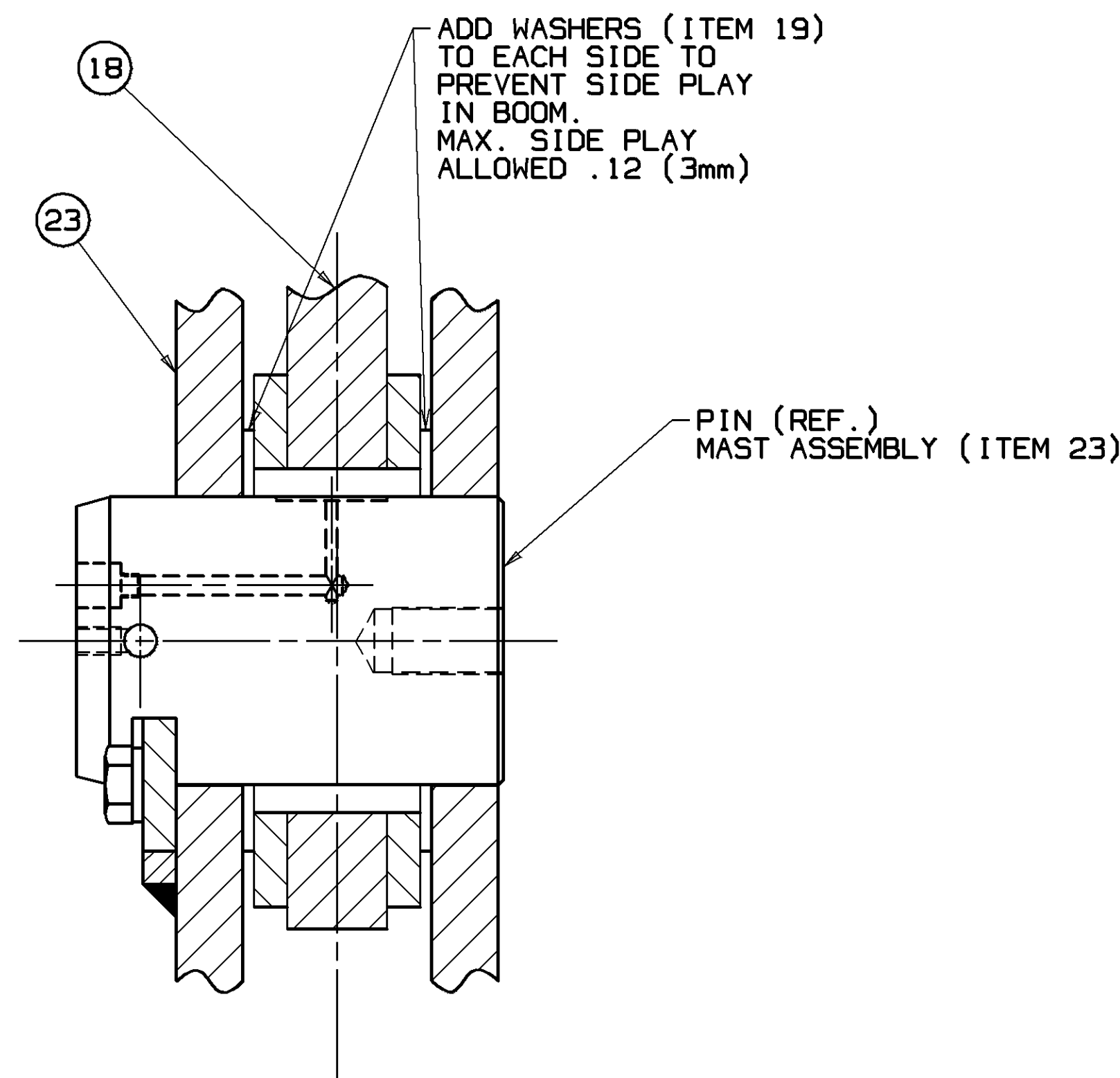
OR

ALTERNATE WIRE ROPE

2150 FEET (655.3 M) OF 1.00" (26mm) DYFORM-6 (719359) - B.S. 113,800 LBS. (51 620 kg)



VIEW "A" - "A"



SECTION "B" - "B"

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DECIMAL PLACES	FABRICATION	MACHINING	WELDING	DR. LS	MANUFACTURED IN	MODEL	BOOM RIGGING ASSEMBLY	DR. LS	MANUFACTURED IN	MODEL	BOOM RIGGING ASSEMBLY	DR. LS	MANUFACTURED IN	MODEL	BOOM RIGGING ASSEMBLY
(1) PLACE 0.0	± 1.50	± 1.50	± 0.50	DR. LS	Mantowoc, Wisconsin	# 49A - 44 BOOM		DR. LS	Mantowoc, Wisconsin	# 49A - 44 BOOM		DR. LS	Mantowoc, Wisconsin	# 49A - 44 BOOM	
(2) PLACE 0.00	± 0.00	± 1.20	± 0.15	DR. LS	Mantowoc, Wisconsin	1.50 SWAGED PENDANTS		DR. LS	Mantowoc, Wisconsin	1.50 SWAGED PENDANTS		DR. LS	Mantowoc, Wisconsin	1.50 SWAGED PENDANTS	
(3) PLACE 0.000	± 0.000	± 0.000	± 0.005	APP TSC		(USA)		APP TSC		(USA)		APP TSC		(USA)	