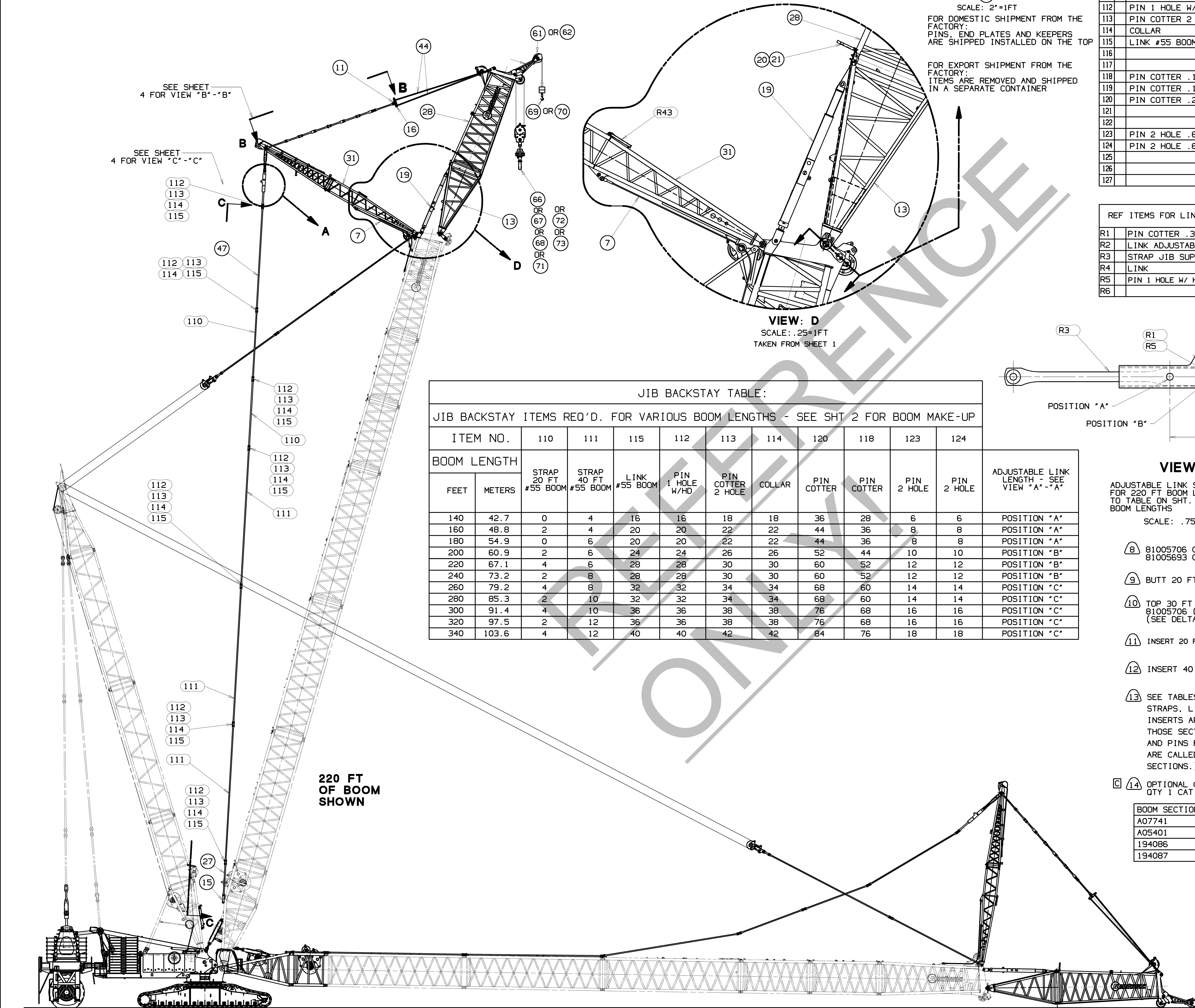
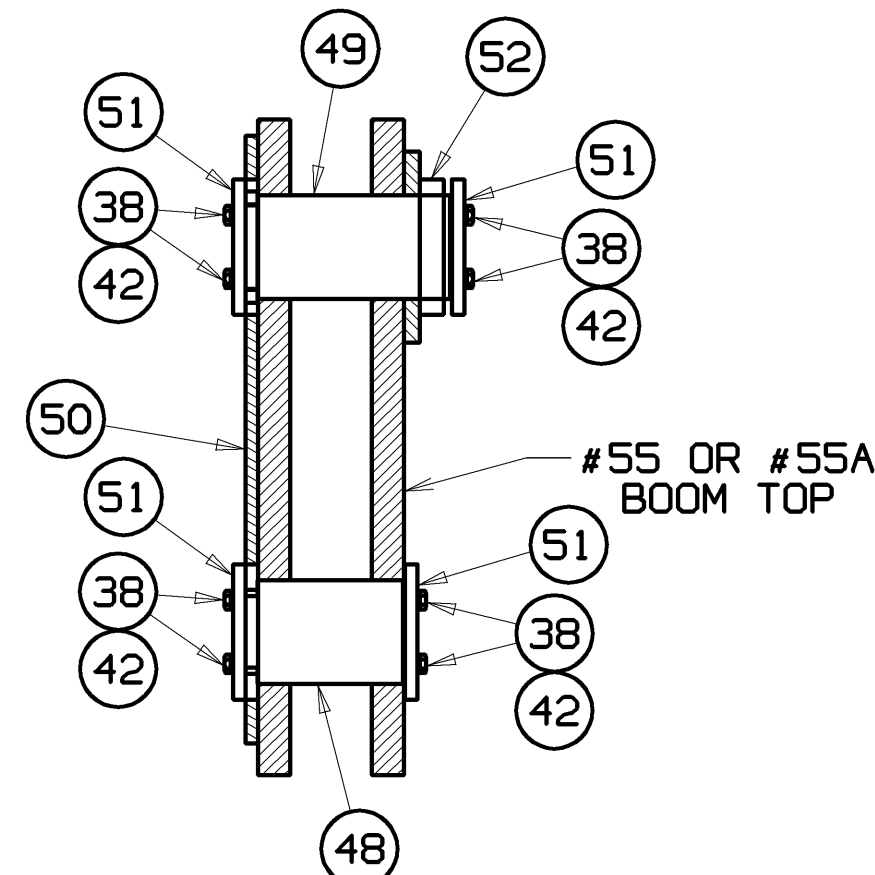


FIXED JIB TABLE: PARTS REQ'D. FOR VARIOUS JIB LENGTHS - SEE SHEET 3 FOR JIB MAKE-UP

ITEM NO.	13	24	106	100	107	101	105	103	104	102	119	112	113	114	118	108
JIB LENGTH	20 FT 6.10 M BUTT #79A	30 FT 9.14 M TOP #79A	20 FT 6.10 M INSERT #79A	20 FT 6.10 M STRAP	40 FT 12.19 M INSERT #79A	40 FT 12.19 M STRAP	LINK	PIN	PIN	COLLAR	PIN COTTER	PIN 1 HOLE W/HD	PIN 2 HOLE	COLLAR	PIN COTTER	PIN 2 HOLE
FEET	METERS															
50	15.2	1	1	0	0	0	0	4	4	4	8	2	2	2	0	2
70	21.3	1	1	1	4	0	0	8	8	8	16	2	2	2	8	6
90	27.4	1	1	0	0	1	4	8	8	8	16	2	2	2	8	6
110	33.5	1	1	1	4	1	4	16	12	12	24	2	2	2	16	10



ASSEMBLY SHOWN W/220 FT. BOOM - 50 FT. JIB -5° OFFSET



SCALE: 2"=1FT
FOR DOMESTIC SHIPMENT FROM THE FACTORY:
PINS, END PLATES AND KEEPERS ARE SHIPPED INSTALLED ON THE TOP

FOR EXPORT SHIPMENT FROM THE FACTORY:
ITEMS ARE REMOVED AND SHIPPED IN A SEPARATE CONTAINER

VIEW: D
SCALE: .25=1FT
TAKEN FROM SHEET 1

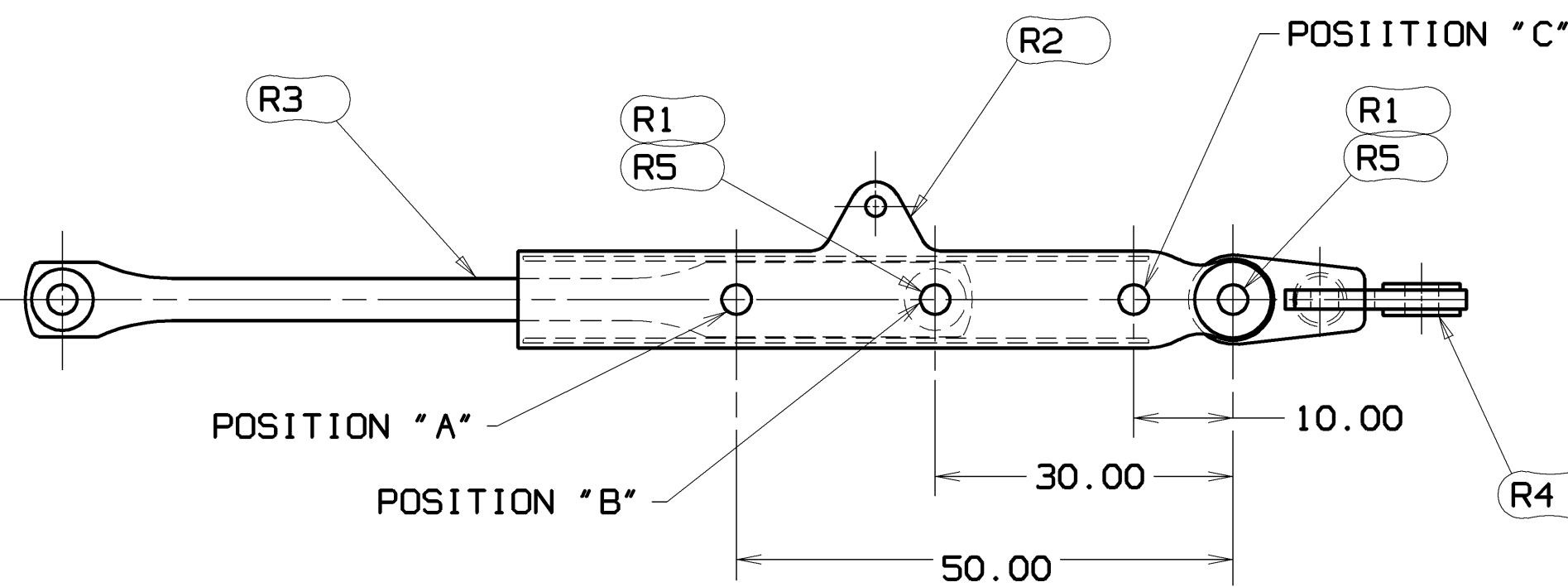
JIB BACKSTAY TABLE:

JIB BACKSTAY ITEMS REQ'D. FOR VARIOUS BOOM LENGTHS - SEE SHT 2 FOR BOOM MAKE-UP

ITEM NO.	110	111	115	112	113	114	120	118	123	124	
BOOM LENGTH	STRAP 20 FT #55 BOOM	STRAP 40 FT #55 BOOM	LINK #55 BOOM	PIN 1 HOLE W/HD	PIN COTTER 2 HOLE	COLLAR	PIN COTTER	PIN COTTER	PIN 2 HOLE	PIN 2 HOLE	ADJUSTABLE LINK LENGTH - SEE VIEW "A"-"A"
FEET	METERS										
140	42.7	0	4	16	16	18	18	36	28	6	6
160	48.8	2	4	20	20	22	22	44	36	8	8
180	54.9	0	6	20	20	22	22	44	36	8	8
200	60.9	2	6	24	24	26	26	52	44	10	10
220	67.1	4	6	28	28	30	30	60	52	12	12
240	73.2	2	8	28	28	30	30	60	52	12	12
260	79.2	4	8	32	32	34	34	68	60	14	14
280	85.3	2	10	32	32	34	34	68	60	14	14
300	91.4	4	10	36	36	38	38	76	68	16	16
320	97.5	2	12	36	36	38	38	76	68	16	16
340	103.6	4	12	40	40	42	42	84	76	18	18

ITEM NO.	DESCRIPTION	QUANTITY	REMARKS
NO.	REQ'D. FOR THE FOLLOWING ITEMS ARE IN THE JIB BACKSTAY AND FIXED JIB TABLES. SEE SHEET 2 VIEW C-C FOR LINKAGE ASSEMBLY.		
100	STRAP 20 FT #79A	179838	
101	STRAP 40 FT #79A	179839	
102	COLLAR	179862	
103	PIN	179863	
104	PIN	179959	
105	LINK	192250	
106	INSERT 20 FT ASSEMBLY #79A	19408611,14	
107	INSERT 40 FT ASSEMBLY #79A	19408712,14	
108	PIN	78292	
109			
110	STRAP 20 FT #55 BOOM	A05196	2
111	STRAP 40 FT #55 BOOM	A05197	2
112	PIN 1 HOLE W/ HD	A06149	
113	PIN COTTER 2 HOLE	A06150	
114	COLLAR	A06151	
115	LINK #55 BOOM	A06457	
116			
117			
118	PIN COTTER .125 X 1.50	562045	
119	PIN COTTER .188 X 1.50	562085	
120	PIN COTTER .250 X 1.50	562105	
121			
122			
123	PIN 2 HOLE .63 X 6.75 LG	A07033	
124	PIN 2 HOLE .63 X 6.00 LG	A07034	
125			
126			
127			

REF	ITEMS FOR LINK ADJUSTMENT SHOWN IN VIEW A	
R1	PIN COTTER .375 X 5.00	562154
R2	LINK ADJUSTABLE	A07799
R3	STRAP JIB SUPPORT	A07800
R4	LINK	A07801
R5	PIN 1 HOLE W/ HD, 3.00 DIA X 6.50 LG	A07804
R6		



VIEW: A

ADJUSTABLE LINK SHOWN ADJUSTED FOR 220 FT BOOM LENGTH. REFER TO TABLE ON SHT. 7 FOR OTHER BOOM LENGTHS

SCALE: .75=1 FT

81005706 CAN BE USED IN PLACE OF A05460.
81005693 CAN BE USED IN PLACE OF A16449.

BUTT 20 FT I.D. TAG #A07742.

TOP 30 FT I.D. TAG #A05460 OR A16449 OR 81005706 (SEE DELTA 6) OR 81005693 (SEE DELTA 6).

INSERT 20 FT I.D. TAG #193412 OR 81010353.

INSERT 40 FT I.D. TAG #193413 OR 81010396.

SEE TABLES FOR NO. REQ'D (NOTE: BACKSTAY STRAPS, LINKS AND PINS FOR BOOM TOP AND INSERTS ARE CALLED FOR AND SHIPPED WITH THOSE SECTIONS. JIB SUPPORT STRAPS, LINKS AND PINS FOR JIB ITEMS 106, 107 AND 28 ARE CALLED FOR AND SHIPPED WITH THOSE SECTIONS.)

OPTIONAL CAT WALK ASSEMBLY
QTY 1 CAT WALK ASSY PER BOOM SECTION ASSY

BOOM SECTION ASSY	OPTIONAL CAT WALK ASSY
A07741	81017344
A05401	81016917
194086	81016910
194087	81016911

BILL OF MATERIAL					ASSEMBLIES USED ON	
ITEM NO. REV.	DESCRIPTION	QUANTITY REV.	MATERIAL	QTY REV.	ASSEMBLY REV.	
#79A FIXED JIB BASIC (5° OFFSET)						
1	4PIN COTTER .250 X 1.75			562106		
2	6PIN COTTER .38 X 4.00			562152		
3	4PIN COTTER .250 X 1.50			562105		
4	12PIN SNAP			563823		
5	2PIN			78292		
6	2SPACER			166316		
7	2PENDANT			276860		
8	2PIN 1 HOLE W/ HD			A06149		
9	2PIN COTTER 2 HOLE			A06150		
10	2COLLAR			A06151		
11	4LINK #55 BOOM			A06457		
12	2PIN COTTER 2 HOLE			A07565		
13	1BUTT 20 FT #79A			A07741		
14	2PIN			A07794		
15	2LINK #55 BOOM			A07498		
16	2BRACKET EQUALIZER			A07877		
17	4PIN			A07878		
18	2BRACKET STRAP			A08043		
19	2JIB STOP ASSEMBLY			A08044		
20	1BRACKET R.H. STRAP SUPPORT			A08171		
21	1BRACKET L.H. STRAP SUPPORT			A08192		
22	2PIN			A08210		
23	2PIN			A08211		
24						
25	2PIN 1 HOLE W/HD			A07517		
26						
27	2STRAP 10 FT #55 BOOM			A05198		
28	1TOP ASSEMBLY 30 FT #79A			A05401		

JIB ASSEMBLY					
SEE SHT 2 FOR JIB MAKE-UP					
ITEM NO.		13	29	30	28
JIB LENGTH		20 FT BUTT	20 FT. INSERT	40 FT. INSERT	30 FT TOP
FEET	METERS				
50	15.2	1	0	0	1
70	21.3	1	1	0	1
90	27.4	1	0	1	1
110	33.5	1	1	1	1

FIXED JIB ASSEMBLY INSTRUCTIONS

ASSEMBLE THE JIB PER THE RECOMMENDED JIB ASSEMBLY DIAGRAMS SHOWN ON SHT. 2 TO THE DESIRED LENGTH. BEFORE ASSEMBLING THE TOP OR INSERTS TO THE JIB BUTT (ITEM 13), REMOVE STRAP SUPPORT BRACKETS (ITEMS 20 & 21) FROM STOWED POSITION AND MOUNT TO THE BUTT AS SHOWN ON SHT. 5. AFTER THE TOP OR INSERT IS ADDED, SUPPORT OUTSIDE STRAPS ON TOP OF THE STORAGE PIN. RAISE INSIDE STRAP AND ROTATE THE STRAP SUPPORT BRACKETS FORWARD UNTIL THEY REST ON THE CROSS TUBE ON EITHER THE TOP OR THE INSERT. ASSEMBLE STRAP RETAINING PIN FURNISHED WITH THE TOP OR THE INSERT THRU THE LOWER HOLE IN THE STRAP SUPPORT BRACKET AND THE STRAP LUGS MOUNTED ON THE TOP OR INSERT (SEE SHT. 5). INSERT PINS (ITEMS 5) THRU THE STRAP BRACKETS AS SHOWN ON SHT.5. LAY UPPER STRAPS (44) ON THESE PINS AND ATTACH THE ASSEMBLED EQUALIZER (ITEM 16). REMOVE THE STORAGE PINS FROM UNDER STRAPS TO ALLOW EQUALIZER ASSEMBLY TO REST ON SUPPORT BRACKET. THIS IS TYPICAL ON BOTH R.H. & L.H. SIDES.

DETACH THE JIB STOP (ITEM 19) FROM THE STOWED POSITION ON THE JIB BUTT (ITEM 13) AND ATTACH THE CLEVIS END TO THE BOOM TOP AS SHOWN ON SHT. 5 OF 8. STOP PIN SHOULD BE IN THE STOWED POSITION.

ASSEMBLE THE STRUT ASSEMBLY (ITEM 31) IN THE SHIPPING CONFIGURATION AS SHOWN ON SHT. 4. NOTE THAT THE ADJUSTABLE LINK (R2) AND THE JIB STRAP (R3) ARE ASSEMBLED TO THE SHORTEST LENGTH. ASSEMBLE THE JIB STRAPS IN THE CONFIGURATION REQUIRED FOR THE SPECIFIC JIB LENGTH AND OFFSET REQUIRED (SEE SHT. 4 - VIEW B-B). LINKS EXTENDING BEYOND THE STRUT SHOULD BE FOLDED BACK OVERTOP LINKS AND SECURED IN THAT POSITION. LIFT STRUT ASSEMBLED IN THE SHIPPING CONFIGURATION USING THE LOCATIONS SHOWN ON SHT. 4. NOTE THAT THE LONG LEG OF THE SLING SET SHOULD BE TOWARD THE STRUT BUTT HINGE PIN SO THAT WHEN THE ASSEMBLY IS LIFTED THIS END WILL BE THE LOWEST. THIS IS REQUIRED TO CONNECT THE JIB BUTT TO THE BOOM TOP AND ALSO TO ALLOW SUPPORT LEG (R34) TO ACHIEVE ITS PROPER POSITION.

STRUT ERECTION SEQUENCE

(SEE SHT. 5)

STEP 1:
ASSEMBLE STRUT ASSEMBLY (ITEM 31) TO THE BOOM TOP WITH PIN (R37) AND ALIGN SUPPORT STRUTS (R43) WITH THE CROSS TUBE IN THE JIB BUTT (ITEM 13). UNFOLD OVERLAPPED LINKS FROM THE STRUT TOP AND ALLOW THEM TO HANG DOWN OUTSIDE OF THE JIB. DISCONNECT THE PENDANTS (R41) AND STOW THEM AS SHOWN ON SHT. 5 - STEP 1. REMOVE LINK RETAINING PIN (R40) AND STOW IN POSITION SHOWN ON SHT. 5 - STEP 1. CONNECT LINKS (R17) TO STRAPS (R3).

STEP 2:
REMOVE BRACKET (R21) PIN TO DISENGAGE THE PENDANTS (R13) AND CONNECT IT AS SHOWN IN STEP 2 - SHT.5. BEGIN LIFTING THE STRUT USING PENDANTS (R13) IN THE STRUT TOP. CONTINUE RAISING THE STRUT TOP UNTILL THE HOLE LOCATION IN THE ADJUSTABLE LINK (R2) IS ALIGNED IN THE PROPER LOCATION BASED ON THE BOOM LENGTH (SEE TABLE - SHT. 1). INSERT PIN (R5).

STEP 3:
CONTINUE RAISING THE STRUT TOP UNTILL THE STRUT BUTT COMES OFF OF THE JIB BUTT. STOW SUPPORT STRUTS (R43) AS SHOWN IN STEP 3 - SHT.5. LOOSEN THE TIE DOWN BOLTS ON STRAP BRACKETS (ITEM 18) AND ROTATE THE STRAP BRACKET TO THE STOWED POSITION. IMPORTANT! THESE STRAP BRACKETS MUST BE STOWED BEFORE FULLY RAISING STRUT. CONTINUE RAISING STRUT UNTIL PENDANT (ITEM 7) CAN BE INSTALLED. LOWER UNTIL PENDANT BECOMES SNUG. RAISE THE EQUALIZER BRACKET UNTIL DANGLING STRAP CAN BE PINNED TO CONNECTOR LINKS (ITEM 11). UNHOOK LIFTING DEVICE FROM EQUALIZER BRACKET.

STEP 4:
CONTINUE RAISING THE STRUT SLOWLY UNTIL THE CONNECTION BETWEEN THE STRUT BUTT AND STRUT TOP CLOSES. INSERT PINS (R35). DISCONNECT THE LIFTING DEVICE FROM THE STRUT TOP AND STOW BACK THE PENDANT (R13) BRACKET (R21)ON STRUT TOP. STOW PENDANT (ITEM 7) ON STRUT BUTT WITH PIN (R40).

STRUT STOP SETTING

ONCE THE STRUT ASSEMBLY (ITEM 13) IS FULLY ERECTED, RAISE BOOM UNTIL THE JIB IS JUST CLEAR OF THE BLOCKING. ADJUST THE STRUT STOP (ITEM 19) AS SHOWN ON SHT. 6.

STRUT LOWERING SEQUENCE

(SEE SHT. 7)

STEP 1:
LOWER BOOM UNTIL THE JIB IS ALMOST ON THE BLOCKING. REMOVE BRACKET (R21) PIN TO DISENGAGE THE PENDANTS (R12) AND CONNECT IT AS SHOWN IN STEP 1- SHT. 7. CONTINUE LOWERING UNTIL THE JIB RESTS ON THE BLOCKING. REMOVE THE LOWER PIN OF THE UPPER BOOM POINT ASSEMBLY IF NECESSARY TO PROVIDE CLEARANCE. REMOVE PIN (R40). STOWING PENDANT (ITEM 7). WARNING: FAILURE TO REMOVE PIN (R40) WILL CAUSE DAMAGE. AFTER LIFTING DEVICE TO THE STRUT TOP WITH PINS (R33) IN THE TOP PIN POSITION. (SEE STEP 1 - SHT 6.) REMOVE FRONT STRUT CONNECTION PINS (R35).

STEP 2:
CONTINUE TO LIFT UNTIL THE FRONT JOINT BETWEEN THE STRUT TOP AND JIB BUTT OPENS. BEGIN LOWERING THE STRUT AND CONTINUE UNTIL PENDANT (ITEM 7) BECOMES SNUG AS SHOWN IN STEP 2 - SHT. 7. DISCONNECT THE STRAP (R28 OR ITEM 27) FROM THE EQUALIZER BRACKET (ITEM 16) AND LOWER EQUALIZER BRACKET UNTIL IT RESTS ON THE STRAP SUPPORT BRACKET (ITEM 20 AND 21).

STEP 3:
RAISE STRUT AND REMOVE PENDANT (ITEM 7). CONTINUE LOWERING THE STRUT AND DETACH SUPPORT STRUT (R43) FROM ITS STOWED POSITION. THESE STRUTS SUPPORT THE STRUT BUTT ON THE END CROSS TUBE OF THE JIB BUTT (SEE STEP 3 - SHT. 7). DETACH THE STRAP BRACKETS (ITEM 18) FROM THEIR STOWED POSITION AND FASTEN THEM IN THE WORKING POSITION. ONCE THE BOOM TOP STRAPS (ITEM 47) COME TO REST ON THE STRAP BRACKETS, REMOVE THE PINS (R23) FROM THE ADJUSTABLE LINK (R2) AND CONTINUE LOWERING THE STRUT TOP AND RE PIN (R23) WITH THE ADJUSTABLE LINK AT ITS SHORTEST LENGTH.

STEP 4:
CONTINUE TO LOWER THE STRUT TOP UNTIL STRUT SUPPORT BRACKETS (R34) RESTS ON STRUT BUTT CROSS TUBE (SEE STEP 4 - SHT. 7). REMOVE PENDANTS (R41) FROM ITS STOWED POSITION AND ATTACH THEM TO THE STRUT TOP AS SHOWN. REMOVE PINS (R40) FROM THEIR STOWED POSITION AND ASSEMBLE TO LINK SUPPORTS (R38 AND R39) TO SECURE STRAPS. IF PREPARING FOR SHIPPING, ASSEMBLE JIB LINKAGE IN SHORTEST POSSIBLE CONFIGURATION AS SHOWN ON SHT. 3. REMOVE THE BRACKET (R21) PIN TO DISENGAGE THE PENDANTS AND STOW THEM BACK ON THE STRUT TOP.

STEP 5:
IF PREPARING FOR SHIPPING, DISEMBLE THE STRAP (R28) FROM THE EQUALIZER BRACKET (ITEM 16) IN THE REVERSE MANNER OF THAT STATED ABOVE IN THE JIB ASSEMBLY INSTRUCTIONS. REMOVE THE STRAP SUPPORT BRACKETS (ITEMS 20 & 21) AND REASSEMBLE THEM IN THEIR STOWED POSITION AS SHOWN ON SHT. 5.

BILL OF MATERIAL					
ITEM NO.	QTY	DESCRIPTION	LENGTH	MATERIAL	QTY REQ. NO.

ASSEMBLIES USED ON

REVISIONS
09-15-10 KKM UPDATED INSTRUCTIONS

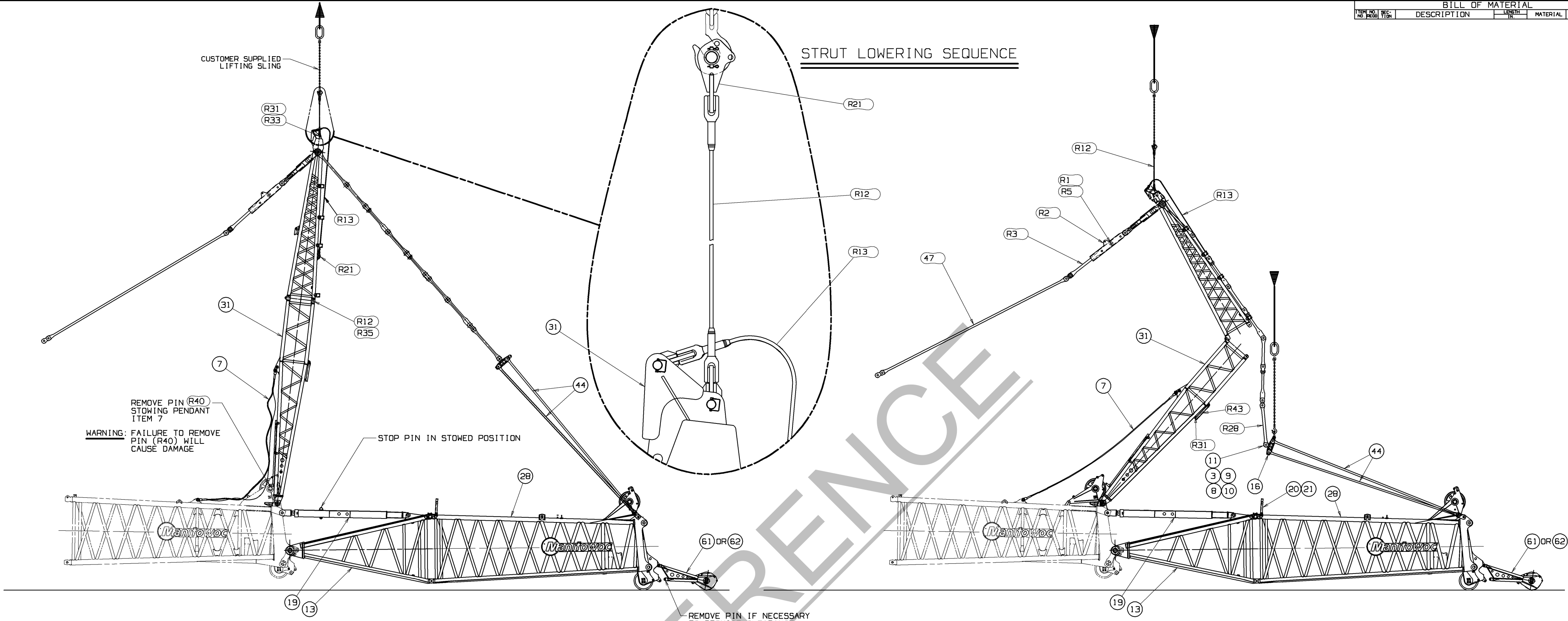
DWG. NO.
A07713
SHT 8 OF 8

PRIVATE LABELING REQUIREMENT TO CONFORM TO ENGINEERING SPECIFICATION 6629103794 FOR COMPONENTS LISTED IN 00500-09-005
--

DATE
07-28-10
PATTERN NO.

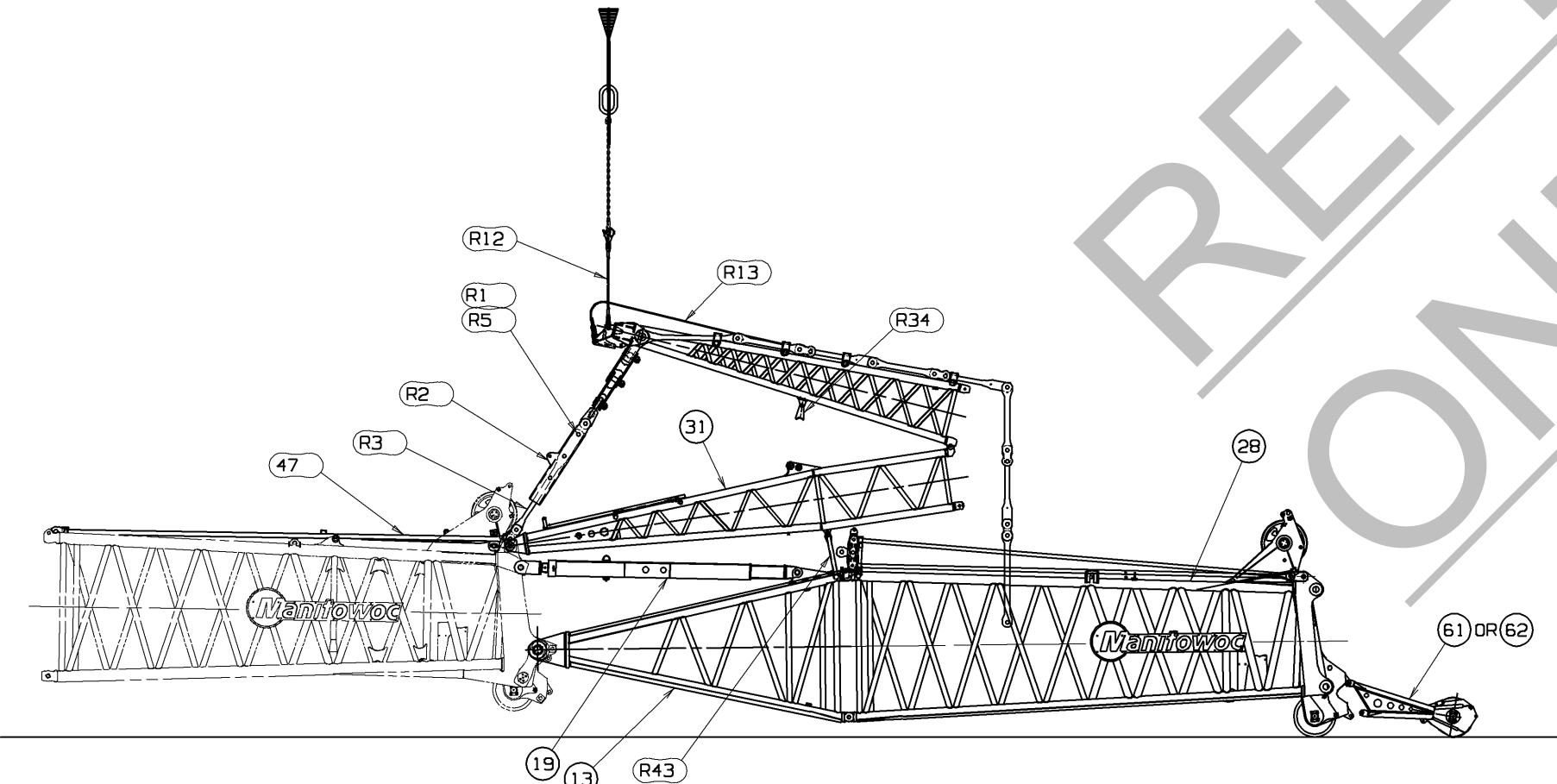
THIS PRINT REMAINS THE PROPERTY OF MANTOWOC CRANES, INC. ALL INFORMATION CONTAINED THEREIN IS CONFIDENTIAL. IT IS LOANED, SUBJECT TO RETURN UPON DEMAND, AND ON EXPRESS CONDITION THAT IT IS NOT TO BE COPIED OR USED DIRECTLY OR INDIRECTLY IN ANY MAY WHATSOEVER DETRIMENTAL TO OUR INTERESTS.		TOLERANCE UNLESS OTHERWISE SPECIFIED		MACHINING		DATE	Mantowoc Cranes, Inc.		# 79A FIXED JIB	
DECIMAL PLACES		FABRICATION		FINISH		12-11-10	JAS		RIGGING ASSEMBLY	
(1) PLACE 0.0		± .12		± .18		± .05	JAS		MODEL 18000	
(2) PLACE 0.00		± .06		± .12		± .015	JAS		ON #55 & #55A BOOM	
(3) PLACE 0.000		± .003		± .005		± .001	APP RJW		W/140 FT MAST	
ANGLES		± 1.0°		± 0.5°		± 0.2°				

STRUT LOWERING SEQUENCE

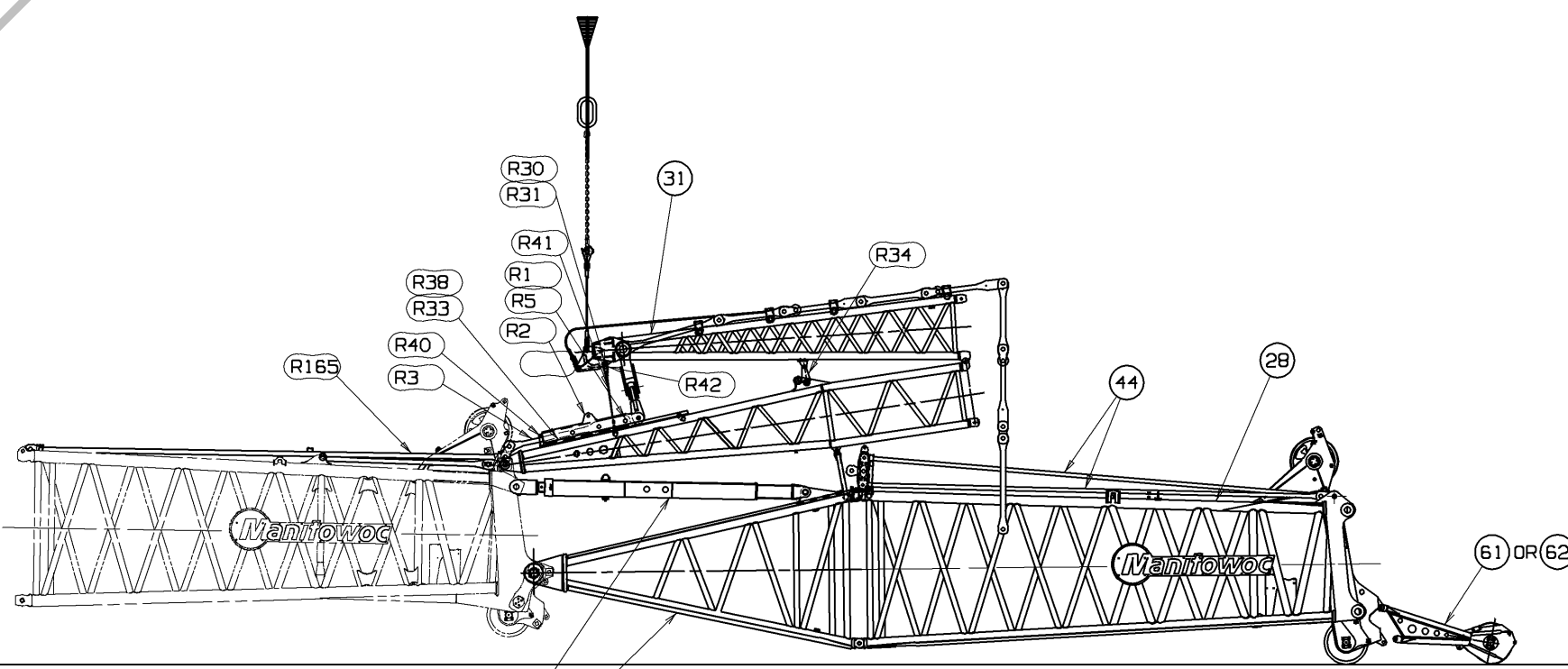


STEP ONE

STEP TWO



STEP THREE



STEP FOUR

SUPERSEDES A07713 SHEET 7 OF 7 OF 03-31-04

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DATE 07-28-10		PATTERN NO.		A07713	

A

A

C

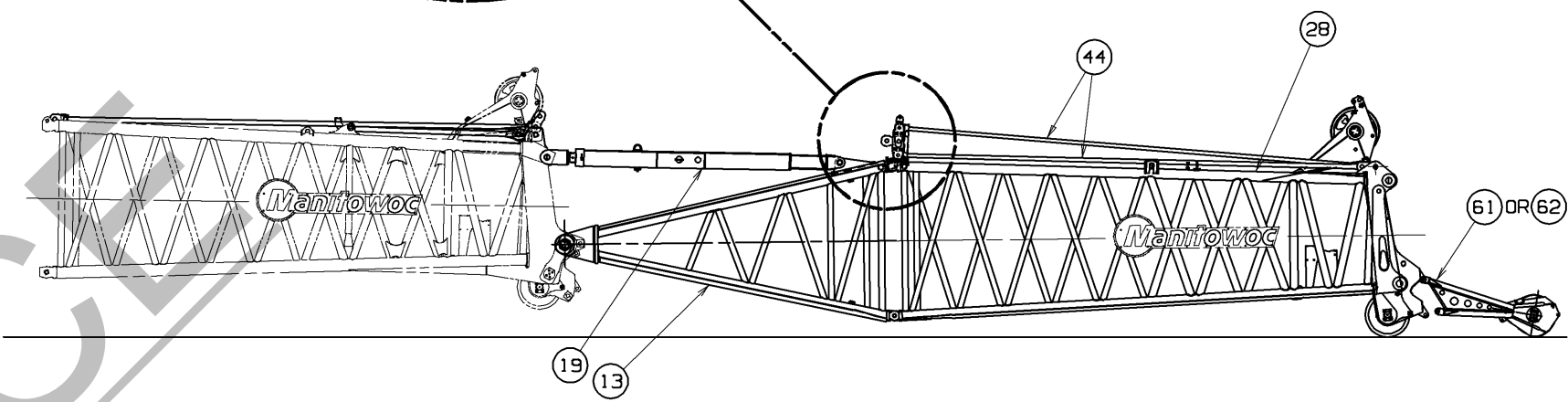
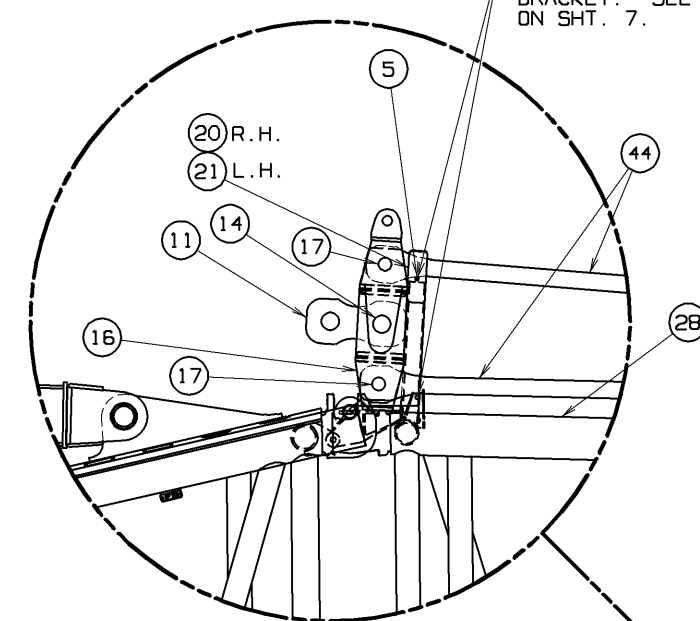
BILL OF MATERIAL					ASSEMBLIES USED ON	
ITEM NO.	QTY.	DESCRIPTION	UNIT	MATERIAL	QTY.	NO.

REVISIONS
09-10-10 KKM
A1 UPDATED
ITEM 31

DWG. NO.
A07713
SHT 6 OF 8

PRIVATE LABELING
REQUIREMENT TO
CONFORM TO
ENGINEERING
SPECIFICATION
6629103794 FOR
COMPONENTS LISTED
IN 035200-06-026
DATE
07-28-10
PATTERN NO.

LAY STRAPS (44) ON THESE PINS
PRIOR TO ASSEMBLY OF THE EQUALIZER
BRACKET. SEE ASSEMBLY INSTRUCTIONS
ON SHT. 7.



JIB ASSEMBLY
SEE SHT. 7

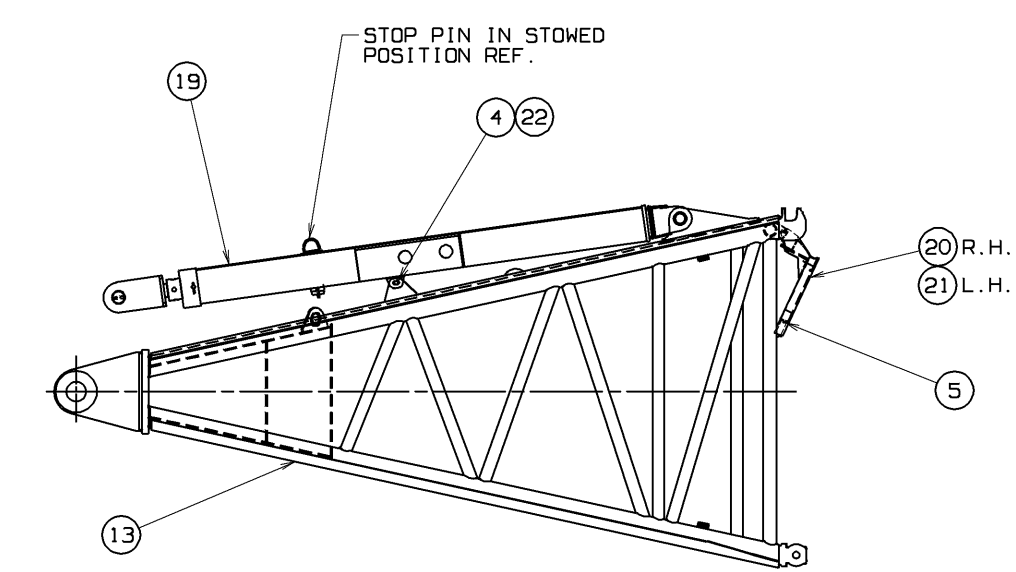
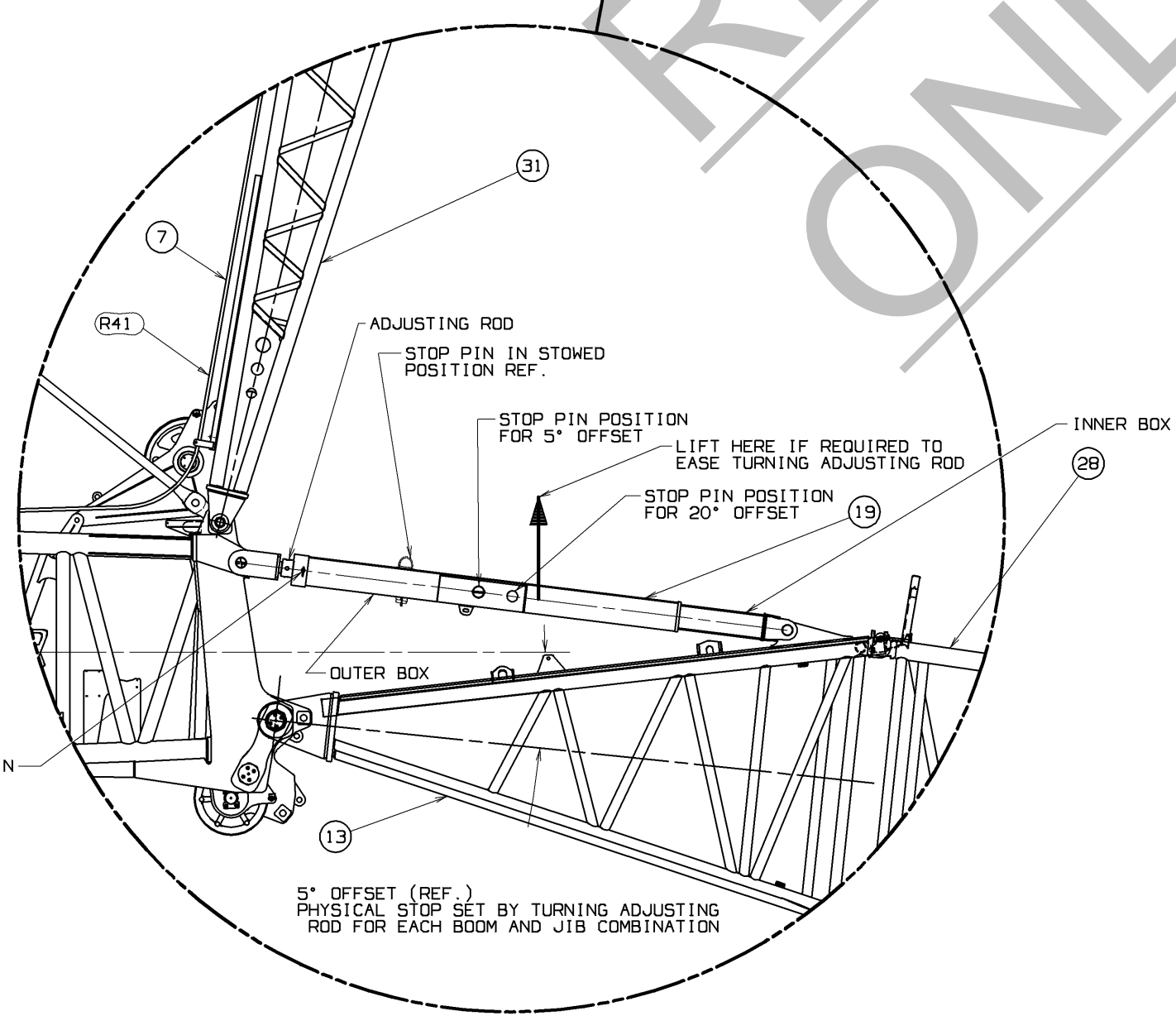
JIB STOP SETTING PROCEDURE

WHEN RAISING JIB

RAISE THE BOOM TO A POINT AT WHICH THE JIB IS JUST CLEAR OF THE BLOCKING. TURN ADJUSTING ROD UNTIL HOLE IN THE OUTER BOX AND THE RADIUS ON THE END OF THE INNER BOX LINE UP AND THE HOLE IN THE OUTER BOX USED TO LOCK THE ADJUSTING ROD LINES UP WITH THE HOLE IN THE ADJUSTING ROD. INSERT THE ADJUSTING ROD LOCKING PIN. (IT MAY BE NECESSARY TO LIFT THE OUTER BOX SLIGHTLY TO ALLOW THE ADJUSTING ROD TO TURN EASILY. SEE VIEW FOR LIFTING LOCATION.) INSERT THE STOP PIN INTO THE PROPER HOLE FOR THE DESIRED OFFSET. CONTINUE RAISING.

WHEN LOWERING JIB

LOWER THE BOOM TO A POINT AT WHICH THE JIB IS JUST CLEAR OF THE BLOCKING. REMOVE STOP PIN AND INSERT IT IN THE STORAGE POSITION. CONTINUE TO LOWER UNTIL RESTING ON BLOCKING.



JIB STOP AND STRAP SUPPORT BRACKET STOWAGE

JIB STOP STOWAGE

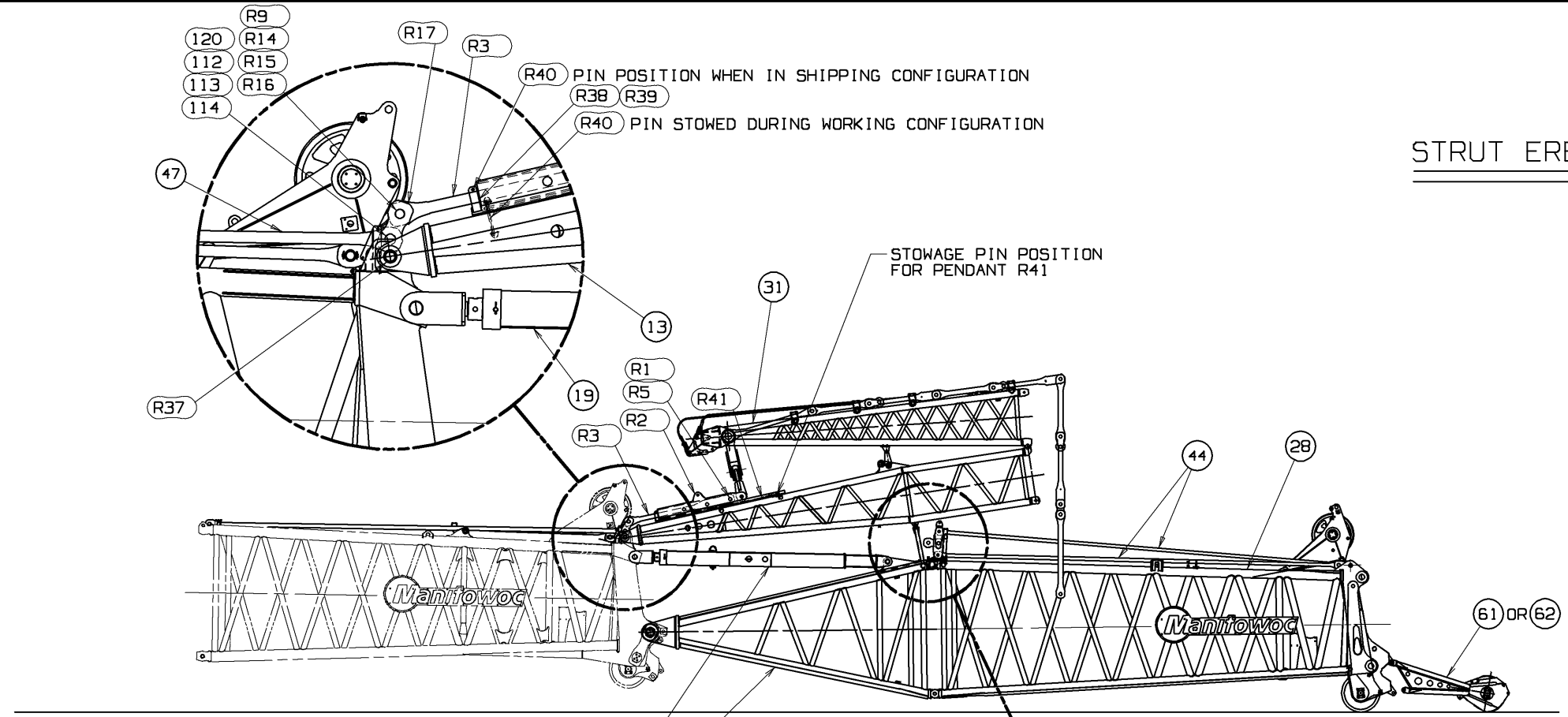
FULLY RETRACT JIB STOP AND INSERT STOP PIN IN STOWAGE POSITION. INSERT PIN - ITEM 22. TYPICAL BOTH SIDES.

STRAP SUPPORT BRACKET STOWAGE

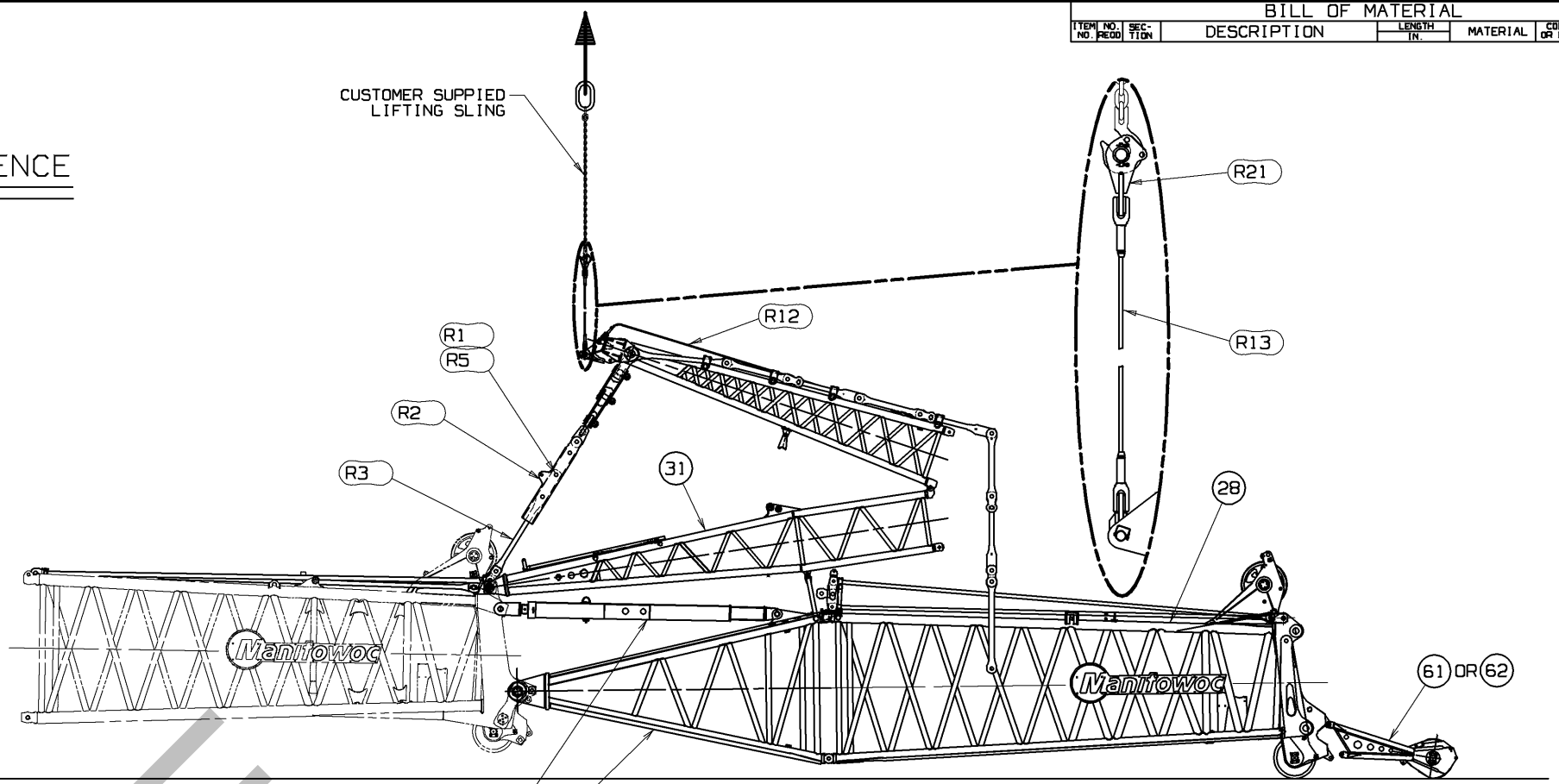
UNPIN STRAP SUPPORT BRACKET FROM JIB BUTT. TURN SUPPORT AROUND AND PIN BACK IN SAME POSITION. ROTATE SUPPORT DOWN UNTIL STRAP RETAINING PIN ALIGNS WITH LUG ON BUTT. INSERT PIN - ITEM 5.

SUPERSEDES A07713 SHEET 5 OF 7 OF 03-31-04

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TOLERANCE UNLESS OTHERWISE SPECIFIED DECIMAL PLACES (1) FRACTION (2) PLACE (3) PLACE ANGLES		FABRICATION 1/2 TO 10 FEET 10 TO 20 FEET 20 TO 30 FEET 30 TO 40 FEET 40 TO 50 FEET 50 TO 60 FEET 60 TO 70 FEET 70 TO 80 FEET 80 TO 90 FEET 90 TO 100 FEET 100 TO 110 FEET 110 TO 120 FEET 120 TO 130 FEET 130 TO 140 FEET 140 TO 150 FEET 150 TO 160 FEET 160 TO 170 FEET 170 TO 180 FEET 180 TO 190 FEET 190 TO 200 FEET 200 TO 210 FEET 210 TO 220 FEET 220 TO 230 FEET 230 TO 240 FEET 240 TO 250 FEET 250 TO 260 FEET 260 TO 270 FEET 270 TO 280 FEET 280 TO 290 FEET 290 TO 300 FEET 300 TO 310 FEET 310 TO 320 FEET 320 TO 330 FEET 330 TO 340 FEET 340 TO 350 FEET 350 TO 360 FEET 360 TO 370 FEET 370 TO 380 FEET 380 TO 390 FEET 390 TO 400 FEET 400 TO 410 FEET 410 TO 420 FEET 420 TO 430 FEET 430 TO 440 FEET 440 TO 450 FEET 450 TO 460 FEET 460 TO 470 FEET 470 TO 480 FEET 480 TO 490 FEET 490 TO 500 FEET 500 TO 510 FEET 510 TO 520 FEET 520 TO 530 FEET 530 TO 540 FEET 540 TO 550 FEET 550 TO 560 FEET 560 TO 570 FEET 570 TO 580 FEET 580 TO 590 FEET 590 TO 600 FEET 600 TO 610 FEET 610 TO 620 FEET 620 TO 630 FEET 630 TO 640 FEET 640 TO 650 FEET 650 TO 660 FEET 660 TO 670 FEET 670 TO 680 FEET 680 TO 690 FEET 690 TO 700 FEET 700 TO 710 FEET 710 TO 720 FEET 720 TO 730 FEET 730 TO 740 FEET 740 TO 750 FEET 750 TO 760 FEET 760 TO 770 FEET 770 TO 780 FEET 780 TO 790 FEET 790 TO 800 FEET 800 TO 810 FEET 810 TO 820 FEET 820 TO 830 FEET 830 TO 840 FEET 840 TO 850 FEET 850 TO 860 FEET 860 TO 870 FEET 870 TO 880 FEET 880 TO 890 FEET 890 TO 900 FEET 900 TO 910 FEET 910 TO 920 FEET 920 TO 930 FEET 930 TO 940 FEET 940 TO 950 FEET 950 TO 960 FEET 960 TO 970 FEET 970 TO 980 FEET 980 TO 990 FEET 990 TO 1000 FEET 1000 TO 1010 FEET 1010 TO 1020 FEET 1020 TO 1030 FEET 1030 TO 1040 FEET 1040 TO 1050 FEET 1050 TO 1060 FEET 1060 TO 1070 FEET 1070 TO 1080 FEET 1080 TO 1090 FEET 1090 TO 1100 FEET 1100 TO 1110 FEET 1110 TO 1120 FEET 1120 TO 1130 FEET 1130 TO 1140 FEET 1140 TO 1150 FEET 1150 TO 1160 FEET 1160 TO 1170 FEET 1170 TO 1180 FEET 1180 TO 1190 FEET 1190 TO 1200 FEET 1200 TO 1210 FEET 1210 TO 1220 FEET 1220 TO 1230 FEET 1230 TO 1240 FEET 1240 TO 1250 FEET 1250 TO 1260 FEET 1260 TO 1270 FEET 1270 TO 1280 FEET 1280 TO 1290 FEET 1290 TO 1300 FEET 1300 TO 1310 FEET 1310 TO 1320 FEET 1320 TO 1330 FEET 1330 TO 1340 FEET 1340 TO 1350 FEET 1350 TO 1360 FEET 1360 TO 1370 FEET 1370 TO 1380 FEET 1380 TO 1390 FEET 1390 TO 1400 FEET 1400 TO 1410 FEET 1410 TO 1420 FEET 1420 TO 1430 FEET 1430 TO 1440 FEET 1440 TO 1450 FEET 1450 TO 1460 FEET 1460 TO 1470 FEET 1470 TO 1480 FEET 1480 TO 1490 FEET 1490 TO 1500 FEET 1500 TO 1510 FEET 1510 TO 1520 FEET 1520 TO 1530 FEET 1530 TO 1540 FEET 1540 TO 1550 FEET 1550 TO 1560 FEET 1560 TO 1570 FEET 1570 TO 1580 FEET 1580 TO 1590 FEET 1590 TO 1600 FEET 1600 TO 1610 FEET 1610 TO 1620 FEET 1620 TO 1630 FEET 1630 TO 1640 FEET 1640 TO 1650 FEET 1650 TO 1660 FEET 1660 TO 1670 FEET 1670 TO 1680 FEET 1680 TO 1690 FEET 1690 TO 1700 FEET 1700 TO 1710 FEET 1710 TO 1720 FEET 1720 TO 1730 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TO 2290 FEET 2290 TO 2300 FEET 2300 TO 2310 FEET 2310 TO 2320 FEET 2320 TO 2330 FEET 2330 TO 2340 FEET 2340 TO 2350 FEET 2350 TO 2360 FEET 2360 TO 2370 FEET 2370 TO 2380 FEET 2380 TO 2390 FEET 2390 TO 2400 FEET 2400 TO 2410 FEET 2410 TO 2420 FEET 2420 TO 2430 FEET 2430 TO 2440 FEET 2440 TO 2450 FEET 2450 TO 2460 FEET 2460 TO 2470 FEET 2470 TO 2480 FEET 2480 TO 2490 FEET 2490 TO 2500 FEET 2500 TO 2510 FEET 2510 TO 2520 FEET 2520 TO 2530 FEET 2530 TO 2540 FEET 2540 TO 2550 FEET 2550 TO 2560 FEET 2560 TO 2570 FEET 2570 TO 2580 FEET 2580 TO 2590 FEET 2590 TO 2600 FEET 2600 TO 2610 FEET 2610 TO 2620 FEET 2620 TO 2630 FEET 2630 TO 2640 FEET 2640 TO 2650 FEET 2650 TO 2660 FEET 2660 TO 2670 FEET 2670 TO 2680 FEET 2680 TO 2690 FEET 2690 TO 2700 FEET 2700 TO 2710 FEET 2710 TO 2720 FEET 2720 TO 2730 FEET 2730 TO 2740 FEET 2740 TO 2750 FEET 2750 TO 2760 FEET 2760 TO 2770 FEET 2770 TO 2780 FEET 2780 TO 2790 FEET 2790 TO 2800 FEET 2800 TO 2810 FEET 2810 TO 2820 FEET 2820 TO 2830 FEET 2830 TO 2840 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FEET 3950 TO 3960 FEET 3960 TO 3970 FEET 3970 TO 3980 FEET 3980 TO 3990 FEET 3990 TO 4000 FEET 4000 TO 4010 FEET 4010 TO 4020 FEET 4020 TO 4030 FEET 4030 TO 4040 FEET 4040 TO 4050 FEET 4050 TO 4060 FEET 4060 TO 4070 FEET 4070 TO 4080 FEET 4080 TO 4090 FEET 4090 TO 4100 FEET 4100 TO 4110 FEET 4110 TO 4120 FEET 4120 TO 4130 FEET 4130 TO 4140 FEET 4140 TO 4150 FEET 4150 TO 4160 FEET 4160 TO 4170 FEET 4170 TO 4180 FEET 4180 TO 4190 FEET 4190 TO 4200 FEET 4200 TO 4210 FEET 4210 TO 4220 FEET 4220 TO 4230 FEET 4230 TO 4240 FEET 4240 TO 4250 FEET 4250 TO 4260 FEET 4260 TO 4270 FEET 4270 TO 4280 FEET 4280 TO 4290 FEET 4290 TO 4300 FEET 4300 TO 4310 FEET 4310 TO 4320 FEET 4320 TO 4330 FEET 4330 TO 4340 FEET 4340 TO 4350 FEET 4350 TO 4360 FEET 4360 TO 4370 FEET 4370 TO 4380 FEET 4380 TO 4390 FEET 4390 TO 4400 FEET 4400 TO 4410 FEET 4410 TO 4420 FEET 4420 TO 4430 FEET 4430 TO 4440 FEET 4440 TO 4450 FEET 4450 TO 4460 FEET 4460 TO 4470 FEET 4470 TO 4480 FEET 4480 TO 4490 FEET 4490 TO 4500 FEET 4500 TO 4510 FEET 4510 TO 4520 FEET 4520 TO 4530 FEET 4530 TO 4540 FEET 4540 TO 4550 FEET 4550 TO 4560 FEET 4560 TO 4570 FEET 4570 TO 4580 FEET 4580 TO 4590 FEET 4590 TO 4600 FEET 4600 TO 4610 FEET 4610 TO 4620 FEET 4620 TO 4630 FEET 4630 TO 4640 FEET 4640 TO 4650 FEET 4650 TO 4660 FEET 4660 TO 4670 FEET 4670 TO 4680 FEET 4680 TO 4690 FEET 4690 TO 4700 FEET 4700 TO 4710 FEET 4710 TO 4720 FEET 4720 TO 4730 FEET 4730 TO 4740 FEET 4740 TO 4750 FEET 4750 TO 4760 FEET 4760 TO 4770 FEET 4770 TO 4780 FEET 4780 TO 4790 FEET 4790 TO 4800 FEET 4800 TO 4810 FEET 4810 TO 4820 FEET 4820 TO 4830 FEET 4830 TO 4840 FEET 4840 TO 4850 FEET 4850 TO 4860 FEET 4860 TO 4870 FEET 4870 TO 4880 FEET 4880 TO 4890 FEET 4890 TO 4900 FEET 4900 TO 4910 FEET 4910 TO 4920 FEET 4920 TO 4930 FEET 4930 TO 4940 FEET 4940 TO 4950 FEET 4950 TO 4960 FEET 4960 TO 4970 FEET 4970 TO 4980 FEET 4980 TO 4990 FEET 4990 TO 5000 FEET 5000 TO 5010 FEET 5010 TO 5020 FEET 5020 TO 5030 FEET 5030 TO 5040 FEET 5040 TO 5050 FEET 5050 TO 5060 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TO 6730 FEET 6730 TO 6740 FEET 6740 TO 6750 FEET 6750 TO 6760 FEET 6760 TO 6770 FEET 6770 TO 6780 FEET 6780 TO 6790 FEET 6790 TO 6800 FEET 6800 TO 6810 FEET 6810 TO 6820 FEET 6820 TO 6830 FEET 6830 TO 6840 FEET 6840 TO 6850 FEET 6850 TO 6860 FEET 6860 TO 6870 FEET 6870 TO 6880 FEET 6880 TO 6890 FEET 6890 TO 6900 FEET 6900 TO 6910 FEET 6910 TO 6920 FEET 6920 TO 6930 FEET 6930 TO 6940 FEET 6940 TO 6950 FEET 6950 TO 6960 FEET 6960 TO 6970 FEET 6970 TO 6980 FEET 6980 TO 6990 FEET 6990 TO 7000 FEET 7000 TO 7010 FEET 7010 TO 7020 FEET 7020 TO 7030 FEET 7030 TO 7040 FEET 7040 TO 7050 FEET 7050 TO 7060 FEET 7060 TO 7070 FEET 7070 TO 7080 FEET 7080 TO 7090 FEET 7090 TO 7100 FEET 7100 TO 7110 FEET 7110 TO 7120 FEET 7120 TO 7130 FEET 7130 TO 7140 FEET 7140 TO 7150 FEET 7150 TO 7160 FEET 7160 TO 7170 FEET 7170 TO 7180 FEET 7180 TO 7190 FEET 7190 TO 7200 FEET 7200 TO 7210 FEET 7210 TO 7220 FEET 7220 TO 7230 FEET 7230 TO 7240 FEET 7240 TO 7250 FEET 7250 TO 7260 FEET 7260 TO 7270 FEET 7270 TO 7280 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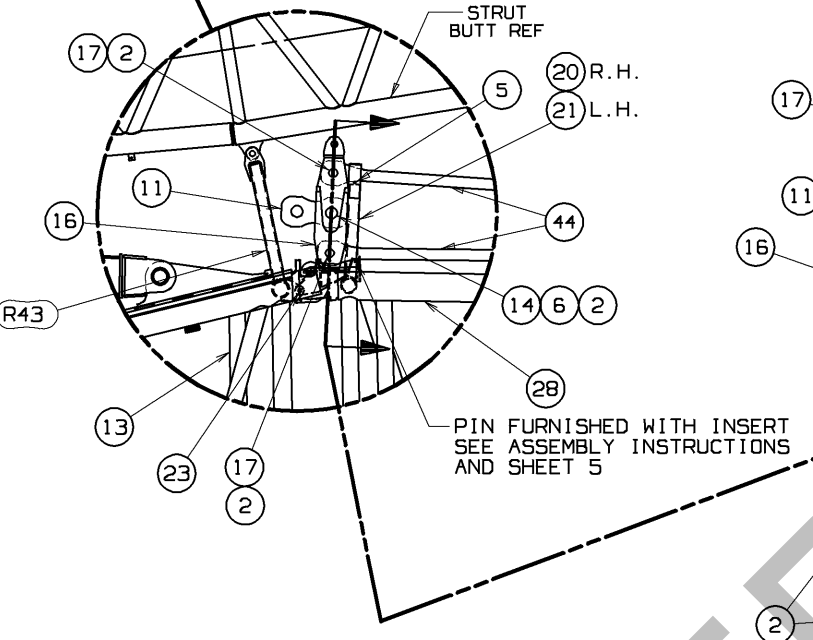


STRUT ERECTION SEQUENCE

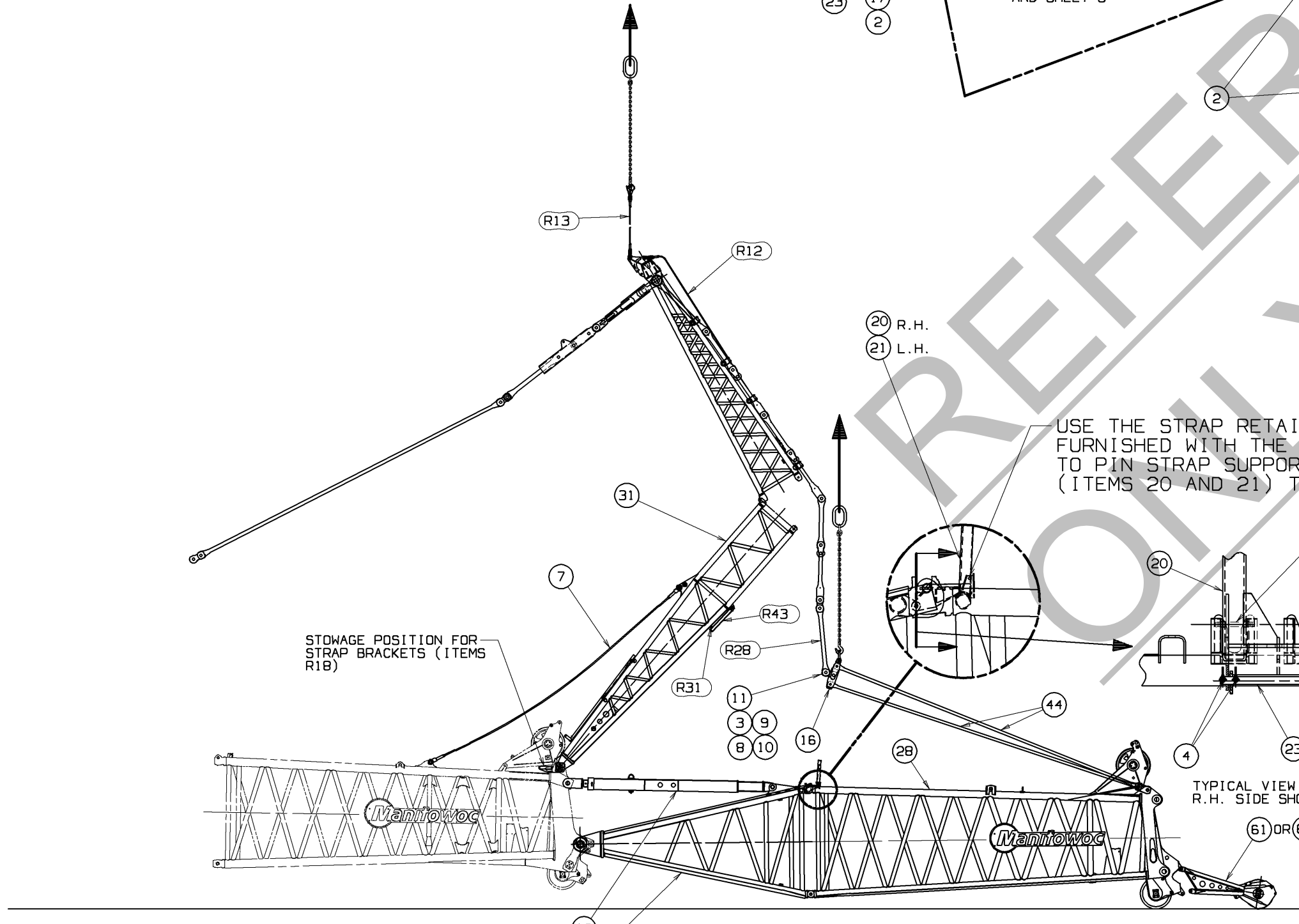


STEP ONE

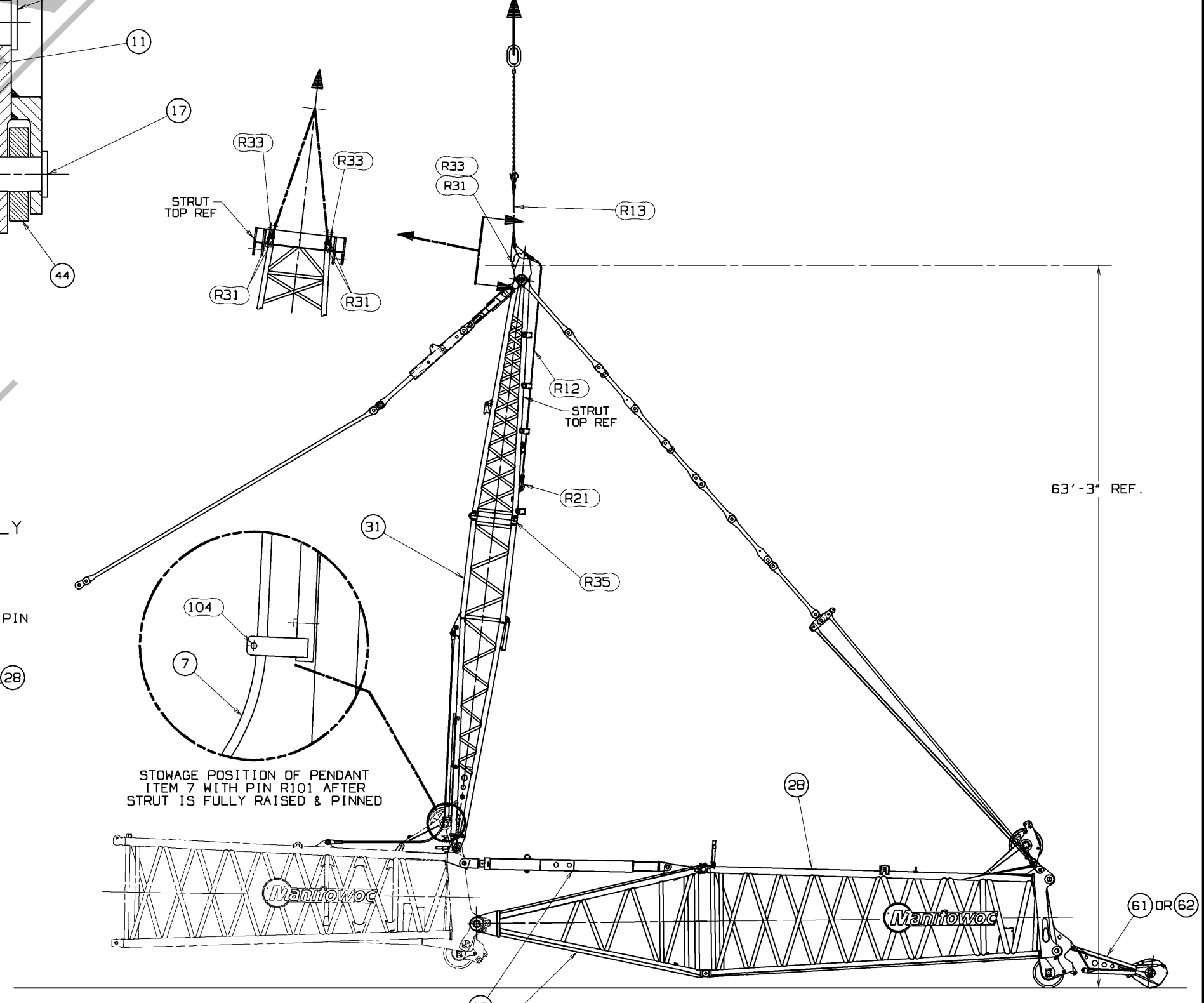
STEP TWO



APPROXIMATE LIFTING FORCE: 15,000 LBS.



STEP THREE

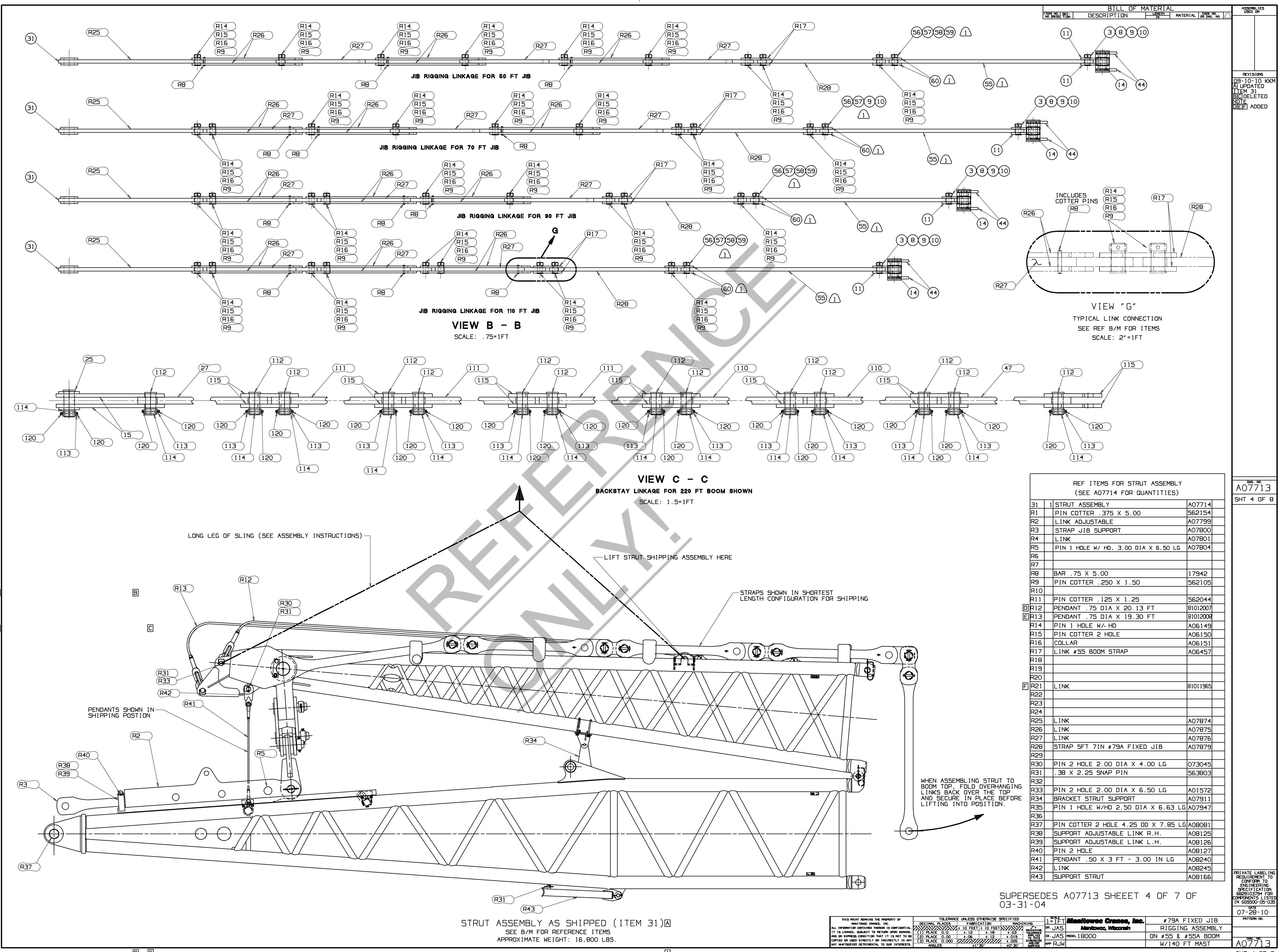


STEP FOUR

SUPERSEDES A07713 SHEET 5 OF 7 OF 03-31-04

TOLERANCE UNLESS OTHERWISE SPECIFIED				MANUFACTURING		DRAWING		REVISIONS	
DECIMAL PLACES	FRACTIONS	INCHES	FEET	DATE	BY	DATE	BY	NO.	DESCRIPTION
(1) PLACE 0.00	1/16	1/8	1/4	03-31-04	JAS	03-31-04	JAS	1	ISSUED
(2) PLACE 0.00	1/16	1/8	1/4	03-31-04	JAS	03-31-04	JAS	2	REVISION
(3) PLACE 0.00	1/16	1/8	1/4	03-31-04	JAS	03-31-04	JAS	3	REVISION
ANGLES				03-31-04	JAS	03-31-04	JAS	4	REVISION
HOLE SIZES				03-31-04	JAS	03-31-04	JAS	5	REVISION
WELDING				03-31-04	JAS	03-31-04	JAS	6	REVISION
FINISHES				03-31-04	JAS	03-31-04	JAS	7	REVISION
PAINTS				03-31-04	JAS	03-31-04	JAS	8	REVISION
OTHER				03-31-04	JAS	03-31-04	JAS	9	REVISION

PRIVATE LABELING
REQUIREMENT TO
CONFORM TO
ENGINEERING
SPECIFICATION
6629103794 FOR
COMPONENTS LISTED
IN 03-31-04-035



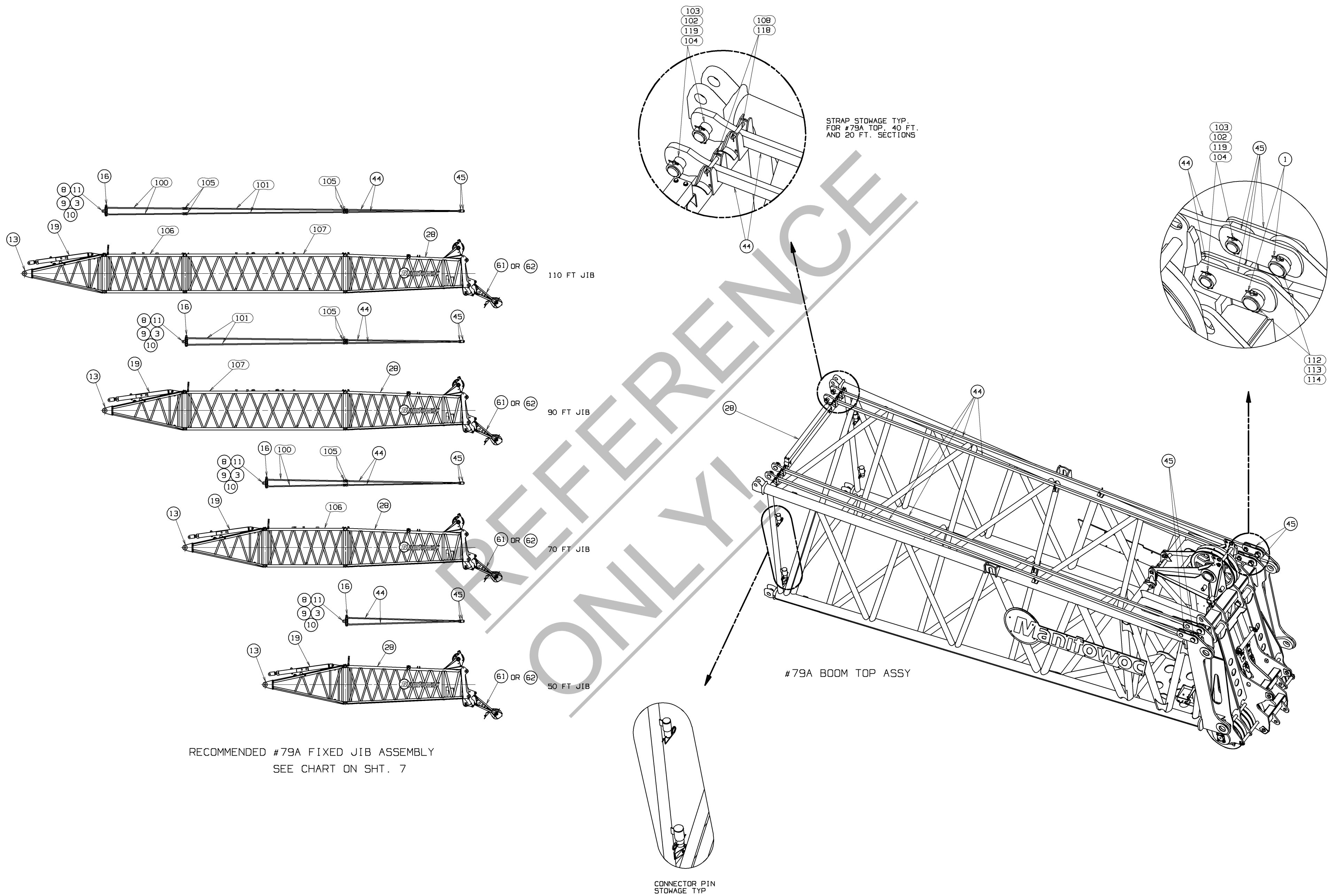
BILL OF MATERIAL			
ITEM NO.	QTY.	DESCRIPTION	MATERIAL

31	1	STRUT ASSEMBLY	A07714
R1		PIN COTTER .375 X 5.00	562154
R2		LINK ADJUSTABLE	A07799
R3		STRAP JIB SUPPORT	A07800
R4		LINK	A07801
R5		PIN 1 HOLE W/ HD. 3.00 DIA X 6.50 LG	A07804
R6			
R7			
R8		BAR .75 X 5.00	17942
R9		PIN COTTER .250 X 1.50	562105
R10			
R11		PIN COTTER .125 X 1.25	562044
R12		PENDANT .75 DIA X 20.13 FT	8101207
R13		PENDANT .75 DIA X 19.30 FT	8101208
R14		PIN 1 HOLE W/ HD	A06149
R15		PIN COTTER 2 HOLE	A06150
R16		COLLAR	A06151
R17		LINK #55 BOOM STRAP	A06457
R18			
R19			
R20			
R21		LINK	81011965
R22			
R23			
R24			
R25		LINK	A07874
R26		LINK	A07875
R27		LINK	A07876
R28		STRAP 5FT 7IN #79A FIXED JIB	A07879
R29			
R30		PIN 2 HOLE 2.00 DIA X 4.00 LG	073045
R31		.38 X 2.25 SNAP PIN	563803
R32			
R33		PIN 2 HOLE 2.00 DIA X 6.50 LG	A01572
R34		BRACKET STRUT SUPPORT	A07911
R35		PIN 1 HOLE W/HD 2.50 DIA X 6.63 LG	A07947
R36			
R37		PIN COTTER 2 HOLE 4.25 OD X 7.85 LG	A08081
R38		SUPPORT ADJUSTABLE LINK R.H.	A08125
R39		SUPPORT ADJUSTABLE LINK L.H.	A08126
R40		PIN 2 HOLE	A08127
R41		PENDANT .50 X 3 FT - 3.00 IN LG	A08240
R42		LINK	A08245
R43		SUPPORT STRUT	A08166

SUPERSEDES A07713 SHEET 4 OF 7 OF 03-31-04

STRUT ASSEMBLY AS SHIPPED (ITEM 31)
SEE B/M FOR REFERENCE ITEMS
APPROXIMATE WEIGHT: 16,800 LBS.

THIS PRINT REMAINS THE PROPERTY OF HANTRON CRANES, INC. ALL INFORMATION CONTAINED HEREIN IS CONFIDENTIAL. IT IS LOANED, SUBJECT TO RETURN UPON DEMAND, AND ON EXPRESS CONDITION THAT IT IS NOT TO BE COPIED OR USED DIRECTLY OR INDIRECTLY IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF HANTRON CRANES, INC.	TOLERANCE UNLESS OTHERWISE SPECIFIED			SCALE 1"=10'	Hantronic Cranes, Inc. Hantronic, Wisconsin	#79A FIXED JIB	PATTERN NO.	
	DECIMAL PLACES	FRACTIONS	MACHINING	DR. JAS		RIGGING ASSEMBLY		
	(1) PLACE 0.0	1/16	1/16	OK JAS		MATERIAL 18000	ON #55 & #55A BOOM	
	(2) PLACE 0.00	1/32	1/32	APP RJW				
	(3) PLACE 0.000	1/64	1/64					
	ANGLES	1/4	1/4					

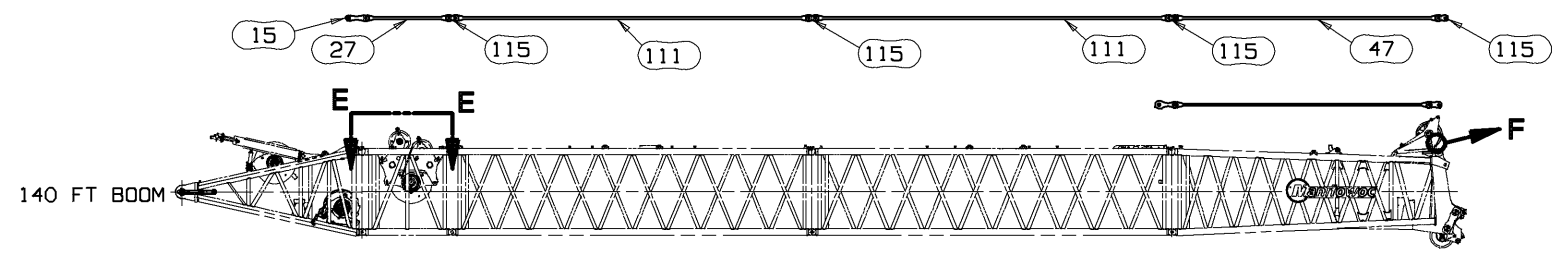
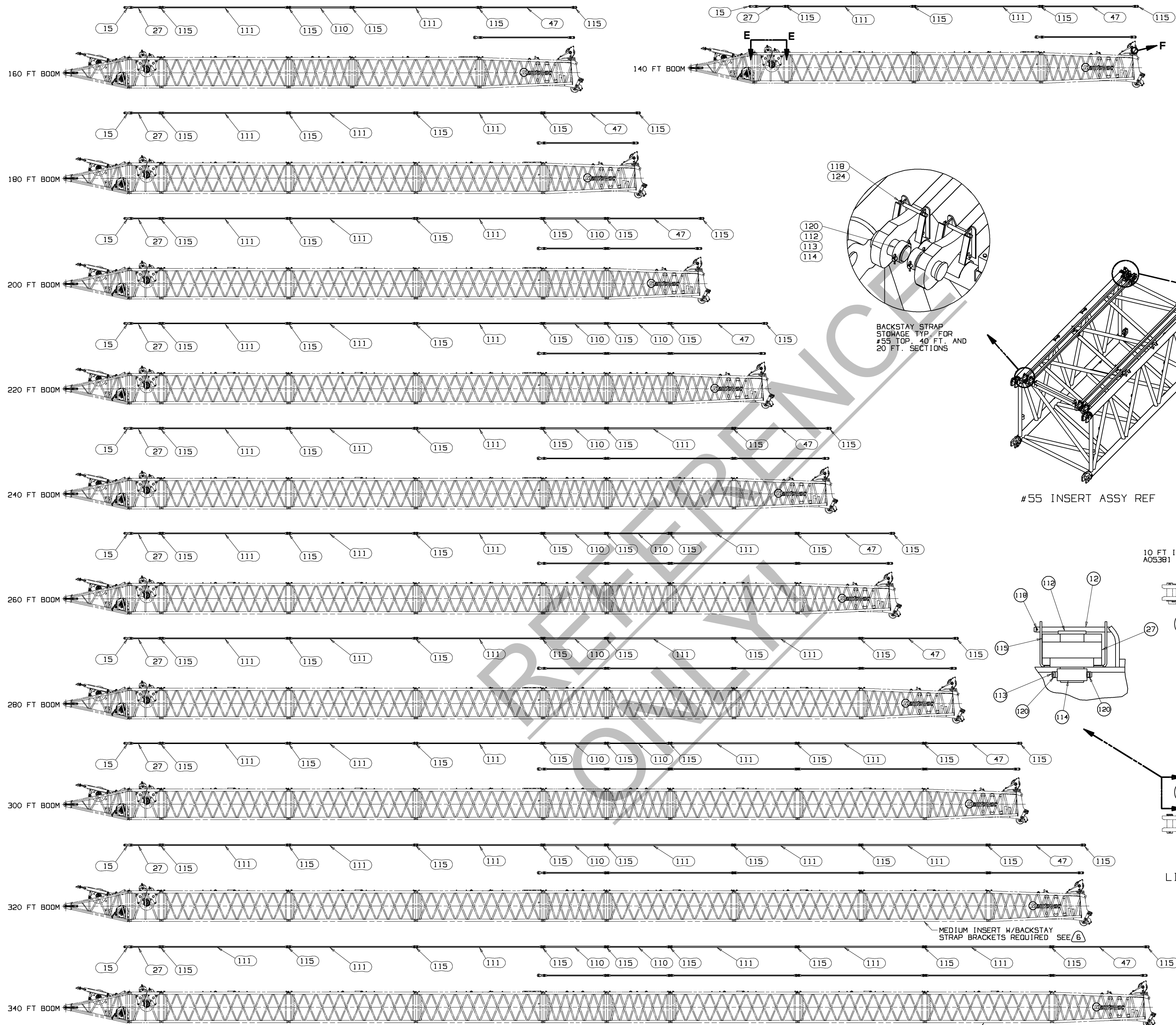


SUPERSEDES A07713 SHEET 3 OF 7 OF 01-30-04

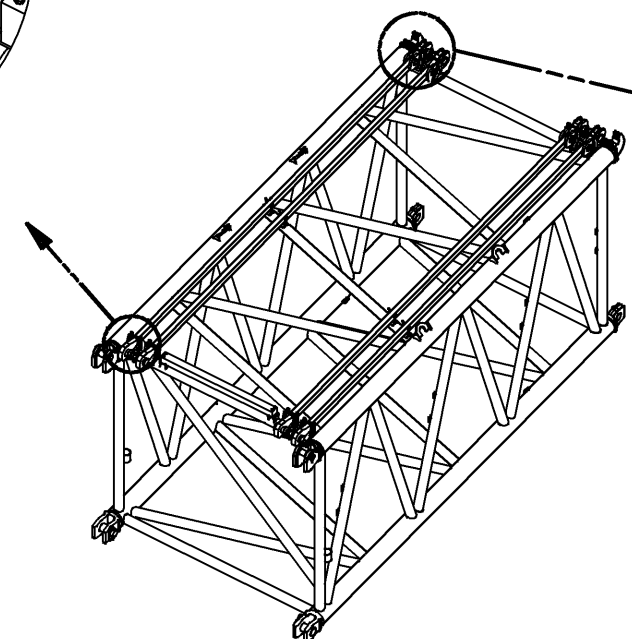
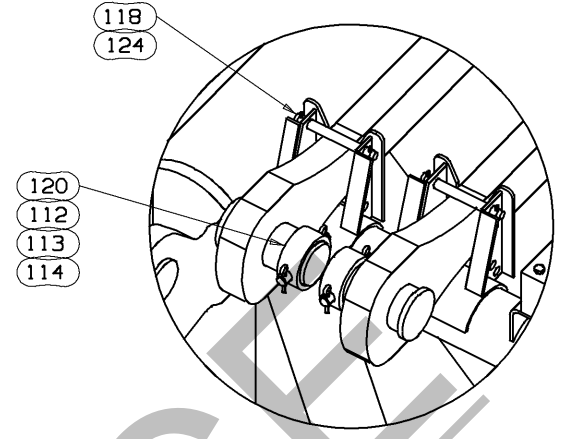
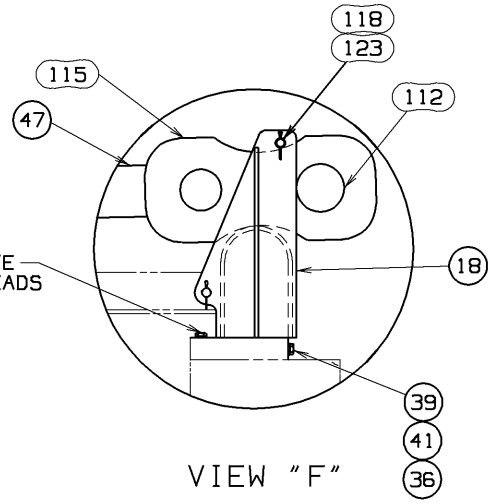
THIS PRINT REMAINS THE PROPERTY OF MANITOWOC CRANES, INC. ALL INFORMATION CONTAINED HEREIN IS CONFIDENTIAL. IT IS LOANED, SUBJECT TO RETURN UPON DEMAND, AND ON EXPRESS CONDITION THAT IT IS NOT TO BE COPIED OR USED DIRECTLY OR INDIRECTLY IN ANY MANNER DETRIMENTAL TO OUR INTERESTS.				TOLERANCE UNLESS OTHERWISE SPECIFIED				SCALE 1"=10'-0"				Manitowoc Cranes, Inc. Manitowoc, Wisconsin				#79A FIXED JIB RIGGING ASSEMBLY			
DECIMAL PLACES				FABRICATION				MACHINING				DATE 01-30-04				MODEL 18000			
(1) PLACE 0.0				± .12				± .18				± .05				ON #55 & #55A BOOM			
(2) PLACE 0.00				± .06				± .12				± .015				W/100 FT MAST			
(3) PLACE 0.000				± .005				± .010				± .005							
ANGLES				± 1°				± 30'				± 30'							

PRIVATE LABELING
REQUIREMENT TO
CONFORM TO
ENGINEERING
SPECIFICATION
6629103794 FOR
COMPONENTS LISTED
IN 662900-06-005

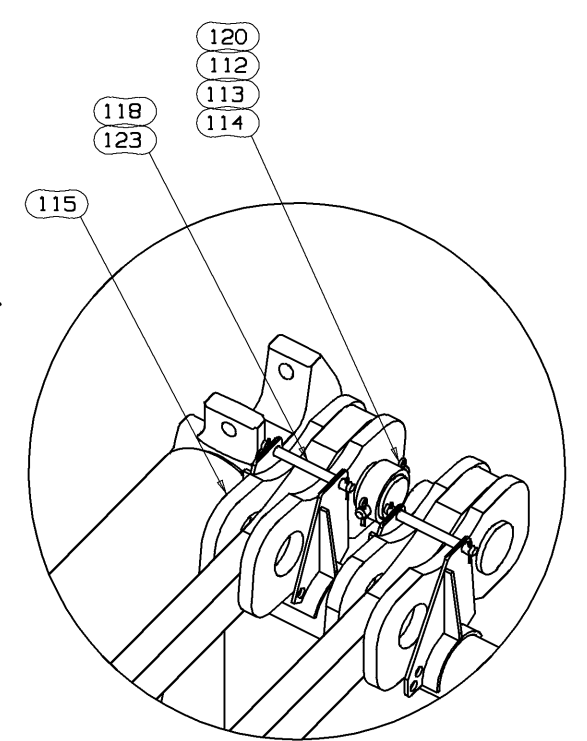
DATE
07-28-10
PATTERN NO.
A07713
SHT 3 OF 8



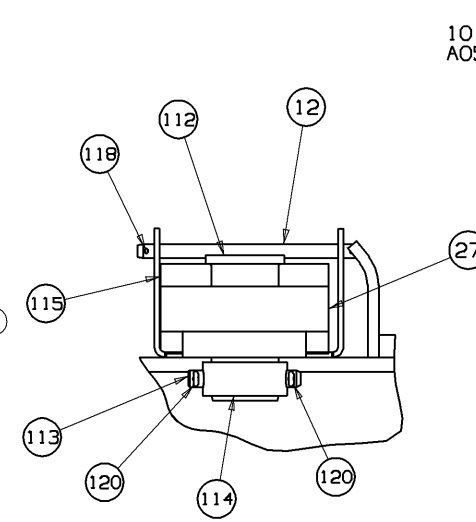
APPLY LOCTITE
#272 TO THREADS



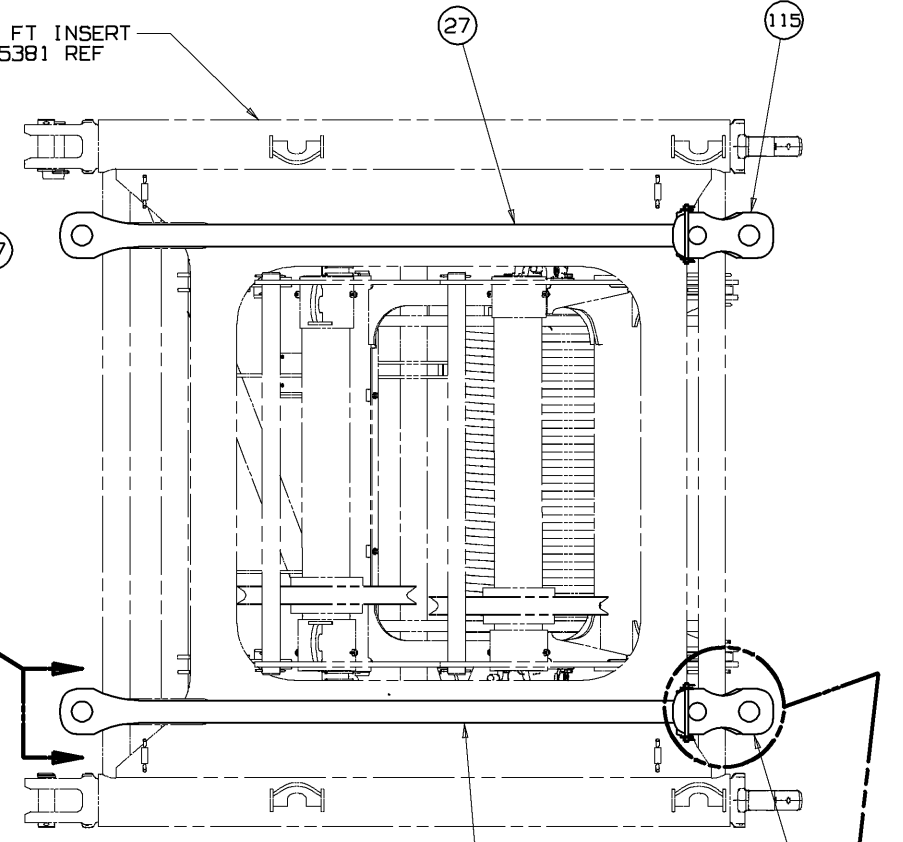
#55 INSERT ASSY REF



BACKSTAY STRAP
STOWAGE TYP. FOR
#55 TOP, 40' FT. AND
20' FT. SECTIONS

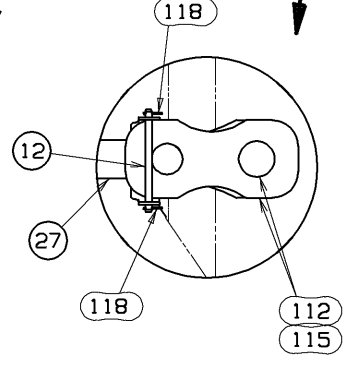


10 FT INSERT
A053B1 REF



LINKS AND PINS SHOWN STOWED AND SHIPPED
FROM THE FACTORY

VIEW "E" - "E"
SCALE: .75"=1FT



RECOMMENDED #55 BOOM ASSEMBLY (REFERENCE) SEE CHART ON SHT. 1 FOR BACKSTAY ITEMS

SEE 6 MEDIUM INSERT W/BACKSTAY
STRAP BRACKETS REQUIRED

SUPERSEDES A07713 SHEET 2 OF 7 OF 03-31-04

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	DECIMAL PLACES		FABRICATION		MACHINING				
			± 0.12" ± 0.18"		± 0.05" ± 0.015"				
	(1) PLACE 0.0		+ .12 + .18		+ .03 + .015				
	(2) PLACE 0.00		+ .06 + .12		+ .015 + .005				
	(3) PLACE 0.000		+ .005 + .010		+ .005 + .005				
	ANGLES		± 1°-30'		± 1°-30'				
	DR. JAS						RIGGING ASSEMBLY		
	OK. JAS 18000						ON #55 & #55A BOOM		
	JAN RJJ						W/140 FT MAST	A07713	