

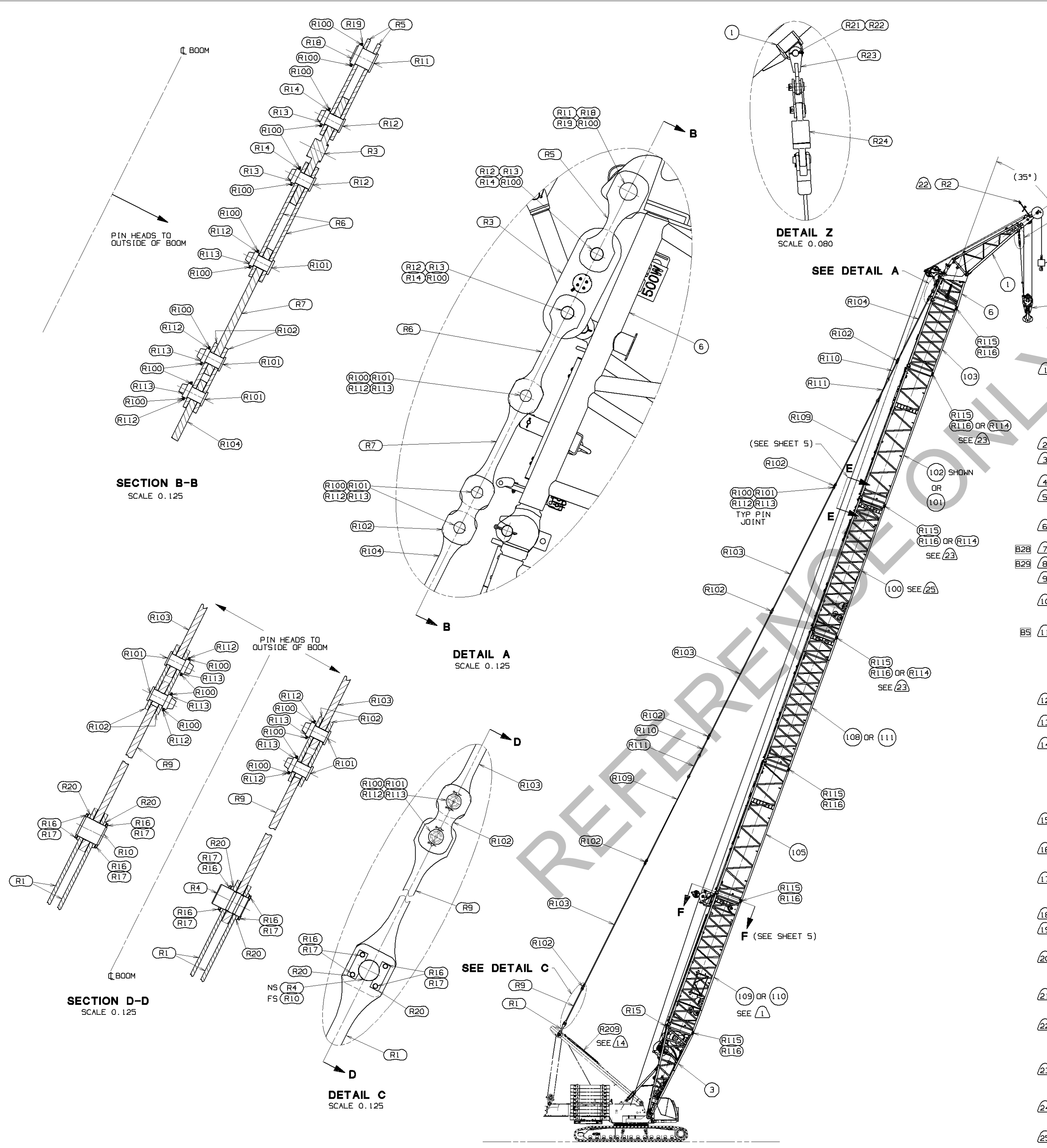


TABLE FOR OPTIONAL I.D. TAG NO. PER SPECIFIC SERIAL NUMBER		
STANDARD I.D. TAG#	OPTIONAL I.D. TAG# PER S/N	SERIAL NUMBERS
81027804	81027805	689535- 799165 1791626-1802759
81027809	81027810	663556- 796718 1780713-1782931
81027812	81027813	757034- 806114 1757058-1757085
81027821	81027822	668416- 797214 1776722-1778448

- 1 WIRE ROPE GUIDE PARTS IN THIS INSERT ARE REQUIRED FOR USE OF AUXILIARY DRUMS #2, #3 AND #6. WHEN DRUMS #2, #3 AND #6 ARE NOT USED OR ARE NOT PRESENT, ROPE GUIDE MAY REMAIN IN SHIPPING POSITION DURING OPERATION.
- 2 WIRE ROPE GUIDE ASSY'S FOR DRUMS #2, #3 AND #6 CAN BE REUSED FROM 12M INSERT ITEM 100 (81027803) IF AVAILABLE.
- 3 TOP 3.0M I.D. TAG #84052214
- 4 INSERT 12.00M HEAVY I.D. TAG #81027804. SEE OPTIONAL I.D. TAG TABLE.
- 5 BUTT 8.0M I.D. TAG #81028037
- 6 INSERT 12.00M MEDIUM I.D. TAG #81027809. SEE OPTIONAL I.D. TAG TABLE.
- 7 INSERT 12.00M MEDIUM W/EQUALIZER I.D. TAG #81027812. SEE OPTIONAL I.D. TAG TABLE.
- 8 INSERT 12.00M HEAVY I.D. TAG #80110939.
- 9 INSERT 12.00M HEAVY W/SHEAVES I.D. TAG #80110940.
- 10 INSERT 6.00M MEDIUM I.D. TAG #81027821. SEE OPTIONAL I.D. TAG TABLE.
- 11 REFER TO CAPACITY CHART IF JIB BACKSTAY STRAPS, LINKS AND RETAINING HARDWARE REMAIN ON BOOM ASSY. (SEE VIEW E-E ON SHEET 5)
- 12 80.0M (262.5 FT), 83.0M (272.3 FT), 86.0M (282.2 FT) AND 89.0M (292.0 FT) BOOM REQUIRES DROP-DOWN INTERMEDIATE SUSPENSION ITEM 106.
- 13 REFER TO BOOM LENGTH TABLE (SHEET 2) FOR SUSPENSION PENDANT BUTTON NUMBER. SEE SHEET 9 FOR OPERATIONAL INSTRUCTIONS.
- 14 POINT EXT UPPER I.D. TAG #81012061. SEE DELTA NOTE 16.
- 15 FOR BOOM STRAP COMPONENTS ON OPTIONAL INSERT REFER TO BOOM LENGTH TABLE ON SHEET 2.
- | MAST HANDLING CAPACITIES | SERIAL NUMBERS |
|--------------------------|-----------------------------------|
| 9340-A | 604716-605836,
605953 & 606114 |
| 9340-B | 605952, 606648
AND GREATER |
- 16 FOR ASSEMBLY AND RIGGING PURPOSE ONLY. STOWS IN PARTS BOX 81028769 AS SELF RIGGING KIT 81038439.
- 17 REFER TO DETAIL Z ON SHEET 1 FOR COMPONENT CONFIGURATION. STOWS IN PARTS BOX 81028769 AS OPTION EQUIPPED.
- 18 SEE BLOCK REEVING DRAWING 80101417 FOR 1 DRUM RIGGING CONFIGURATION, OPTIONS AND INSTRUCTIONS. SEE RIGGING WINCH ASSY 81024072 FOR BLOCK AND WIRE ROPE ASSEMBLY.
- 19 INSERT 12.00M HEAVY W/EQUALIZER I.D. TAG #84051324.
- 20 SUSPENSION PENDANT MAY APPEAR SLACK DURING RAISING AND OPERATION. CHECK SUSPENSION LOCATION AND PENDANT BUTTON NUMBER AND CONTINUE OPERATION.
- 21 REPLACE (4) EXISTING STRAP LINKS ITEM R102 WITH (4) SUSPENSION LINKS R117 ON SUSPENSION WIRE ROPE ITEM 106. (SEE SUSPENSION ASSEMBLY SEQUENCE ON SHEET 9).
- 22 QUANTITIES OF LINK (ITEM R102) IN BOOM LENGTH TABLE (SHEET 2) REFLECT REMOVAL OF LINKS ITEM R102 PER DELTA NOTE 20.
- 23 RELOCATE ITEM R2 FROM SHIPPING LOCATION ON TOP ASSY ITEM 6. (SEE DETAIL AA ON SHEET 5) REFERENCE ESI EXT UPPER POINT 84051036 TO REPOSITION ITEMS FROM TOP ASSY ITEM 6 TO THE EXTEND UPPER POINT ITEM 1.
- 24 IF INSERT ITEMS 100, 101, 102 & 103 ARE SUPPLIED WITH (4) SUSPENSION LINKS R117 ON SUSPENSION WIRE ROPE ITEM 106, THEN ONLY (1) SAFETY PIN (ITEM R115) IS REQUIRED PER PIN ITEM R114.
- 25 THESE COMPONENTS ON WIRE ROPE SUSPENSION ITEM 106 CAN BE REUSED FROM INSERT ASSY #500 W/SUSPENSION 81027817 IF AVAILABLE.
- 26 ALL WIRE ROPE GUIDE ASSY'S IN 12M INSERT ITEM 100 (81027803) MUST BE REMOVED DURING BOOM OPERATION.

BILL OF MATERIAL				ASSEMBLIES USED ON
ITEM NO.	DESCRIPTION	QUANTITY	MATERIAL	ITEM NO.
BOOM RIGGING 845:505-500				
1	POINT ASSY EXT UPPER #58		A11993	12
2				
3	BUTT ASSY #500 8.00 M		81028036	4
4				
5				
6	TOP ASSY #500W. 3.0 M		84052213	2
NO. REQ'D FOR THE FOLLOWING ITEMS ARE IN THE BOOM LENGTH TABLE				
100	INSERT ASSY 12M H #500		81027803	3
101	INSERT ASSY 12M #500		81027808	5
102	INSERT ASSY 12M ED M #500		81027811	6
103	INSERT ASSY 6M #500		81027820	9
104	INSERT ASSY 3M M #500		80107717	27
105	INSERT ASSY #505 12M H		84048756	18
106	SUSPENSION WIRE ROPE		84051095	11
107				
108	INSERT ASSY #505/500 12M H		84047995	7
109	INSERT ASSY 12M H #500/505		84048000	8
110	INSERT ASSY #500/505 12M H		80111376	28
111	INSERT ASSY #505/500 12M H		80111380	29
OPTION 1: HOOK BLOCKS				
200				
201				
202				
203	BLOCK HOOK 100MT 28MM WR 3 SHEAVES		81031987	3
204	WEIGHT BALL SWIVEL 22.2MT. 28MM & 32MM WR		81033344	4
205	BLOCK HOOK 45 TON/41 MTON 1.12 DIA WR 1 SHEAVE		236503	3
206				
BASIC REFERENCE ITEMS				
R1	4 STRAP ASSY LIVE MAST 1.0M		81042537	
R2	1 ESI WARNING LIGHT		80102557	22
R3	LOAD CELL LINK 145.150 KGS, 150 KGS		84038493	
R4	1 LOAD PIN 120MM D X 145.150KG		84038494	
R5	4 STRAP #500 BOOM		84052200	
R6	4 STRAP #500 BOOM		84052201	
R7	2 STRAP .62M #500		84052203	
R8				
R9	2 STRAP 3.400M LG 40MM THK		81028829	
R10	1 PIN 120.0 DIA X 86.2 LG		81029568	
R11	2 PIN 1 HOLE W/HD 100.0 DIA X 94.3 LG		81029670	
R12	4 PIN 1 HOLE W/HD 69.5 DIA X 94.3 LG		81029688	
R13	4 COLLAR 70.50MM I.D.		81029689	
R14	4 PIN 2 HOLE 12.7 DIA X 98.0 LG		81029708	
R15	2 PENDANT 1.12 DIA X 5 FT-10.0 (NCH LG)		81029858	
R16	16 HHCS 16 X 30 10.9, FULL THREAD		7127241353	
R17	16 WASHER 16 ST DIN 127B		7951240220	
R18	2 COLLAR 101MM I.D.		A12945	
R19	2 PIN 2 HOLE 12.7 DIA X 128.0 LG		A12946	
R20	8 PLATE KEEPER 12 MM		A19734	
R21	1 PIN 1 HOLE W/HD 2.25 DIA X 4.02 LG		A10670	16
R22	1 PIN COTTER 1/2 DIA X 3.50 LG		562171	16
R23	1 LINK CROSS. 58.8 DIA HOLE		80102833	16
R24	1 LINK ASSY DEAD END		81042356	16
NO. REQ'D FOR THE FOLLOWING REFERENCE ITEMS ARE IN THE BOOM LENGTH TABLE (SHEET 2)				
R100	PIN COTTER 3/16 DIA X 1.50 LG		562085	
R101	PIN 1 HOLE W/HD 65.0 DIA X 94.3 LG		81024951	
R102	LINK #500 BOOM		81024955	
R103	STRAP 11.78M #500		81027401	
R104	STRAP 5.78M #500		81029621	
R105	STRAP 2.78M #500		80107907	
R106				
R107				
R108				
R109	STRAP 8.07M #500		81036552	
R110	STRAP 1.89M #500		81036553	
R111	LINK #500 BOOM		81036554	
R112	PIN 2 HOLES 12.7 DIA X 93.0 LG		A11799	
R113	COLLAR 66MM I.D.		A11800	
R114	PIN 1 HOLE W/HD 75.80 DIA X 160.4 LG		A13294	
R115	PIN SAFETY .243 OD X 5.00		563640	
R116	PIN 2 HOLE 75.80 X 171.9 LG		84026091	
R117	LINK SUSPENSION		84051117	20
REFERENCE ITEMS FOR ASSEMBLY AND RIGGING PURPOSE ONLY				
R200				
R201				
R202				
R203	1 LINK SELF ERECT		84041812	14
R204	4 SLING 13.0 (FT) 40000 (LBS)		84026655	15
R205	2 SHACKLE 25MT		624759	15
R206				
R207	3 SLING LIFTING 1 LEG X 40000(LBS) X 9.0(FT)		81038423	15
R208	1 SHACKLE 20.5T SLING		81041163	15
R209	1 CYL HYD 139.7 BORE 44.45 ROD		84041811	14
R210				
QUANTITIES OF LOWER CONNECTOR PINS ITEM R114 & R116 AND SAFETY PINS ITEM R115 IN BOOM LENGTH TABLE (SHEET 2) REFLECT THE NON-USE OF THESE COMPONENTS AT JOINT WHERE SUSPENSION WIRE ROPE ITEM 106 IS USED.				
B4	27 INSERT 3.00M MEDIUM I.D. TAG #80107718.			
B30	28 INSERT 12.00M HEAVY W/SHEAVES I.D. TAG #80111377.			
B31	29 INSERT 12.00M HEAVY I.D. TAG #80111381.			

ITEMS REQ'D FOR VARIOUS BOOM LENGTHS - SEE SHEETS 3, 4, 5 & 6 FOR BOOM MAKE-UP																											
ITEM NO.		MEDIUM				HEAVY					STRAP					LINK			PIN		COTTER	COLLAR	SUSPENSION	LOWER CONN PIN	SAFETY PIN		
		101	102	103	104	100	105	108	109	110	111	R103	R104	R105	R109	R110	R102	R111	R117	R101	R112	R100	R113	106 (19)	R114 AND/OR R116	R115	
BOOM LENGTH		INSERT 12M (39.4FT) ASSY	INSERT 12M (39.4FT) ED ASSY	INSERT 6M (19.7FT) ASSY	INSERT 3M (9.8FT) ASSY	INSERT 12M (39.4FT) ASSY	INSERT 12M (39.4FT) ED ASSY	INSERT 12M (39.4FT) 505/500	INSERT 12M (39.4FT) 500/505 W/SHEAV	INSERT 12M (39.4FT) 500/505 W/SHEAV	INSERT 12M (39.4FT) 505/500	STRAP 12M (39.4FT)	STRAP 6M (19.7FT)	STRAP 3M (9.8FT)	STRAP LONG W/EQUAL	STRAP SHORT W/EQUAL	LINK SEE (21)	LINK W/EQUAL	LINK CONNECT W/SUSP	PIN	PIN	COTTER	COLLAR	PENDANT BUTTON NUMBER SEE (11)	PIN SEE (26)	SAFETY PIN SEE (23) (26)	
METERS	FEET																										
35	114.8	0	0	0	0	0	0	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	4	0	0	0	0	12	0	0	14	14	40	14	-	6	12	
38	124.7	0	0	0	1	0	0	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	4	0	2	0	0	16	0	0	18	18	48	18	-	8	16	
41	134.5	0	0	1	0	0	0	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	4	2	0	0	0	16	0	0	18	18	48	18	-	8	16	
44	144.4	0	0	1	1	0	0	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	4	2	2	0	0	20	0	0	22	22	56	22	-	10	20	
47	154.2	0	0	0	0	0	1	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	4	0	0	2	2	16	4	0	22	22	56	22	-	8	16	
50	164.0	0	0	0	1	0	1	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	4	0	2	2	2	20	4	0	26	26	64	26	-	10	20	
53	173.9	0	0	1	0	0	1	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	4	2	0	2	2	20	4	0	26	26	64	26	-	10	20	
56	183.7	0	0	1	1	0	1	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	4	2	2	2	2	24	4	0	30	30	72	30	-	12	24	
59	193.6	0	0	0	0	1	1	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	6	0	0	2	2	20	4	0	26	26	64	26	-	10	20	
62	203.4	0	0	0	1	1	1	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	6	0	2	2	2	24	4	0	30	30	72	30	-	12	24	
65	213.3	0	0	1	0	1	1	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	6	2	0	2	2	24	4	0	30	30	72	30	-	12	24	
68	223.1	0	0	1	1	1	1	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	6	2	2	2	2	28	4	0	34	34	80	34	-	14	28	
71	232.9	OR 0 1 1	1 0 0	0 0	0 0	1 1	1 1	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	OR 6 8	0 0	0 0	4 2	4 2	8 24	0 4	0 0	34 30	34 30	80 72	34 30	-	12	24	
74	242.8	OR 0 1 1	1 0 0	0 0	1 1	1 1	1 1	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	OR 6 8	0 0	2 2	4 2	4 2	8 28	0 4	0 0	38 34	38 34	88 80	38 34	-	14	28	
77	252.6	OR 0 1 1	1 0 0	1 0	0 0	1 1	1 1	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	OR 6 8	2 0	0 2	4 2	4 2	8 28	0 4	0 0	38 34	38 34	88 80	38 34	-	14	28	
80	262.5	OR 0 1 1	1 0 0	1 1	1 1	1 1	1 1	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	OR 6 8	2 2	2 2	4 2	4 2	8 28	4 4	4 0	42 38	42 38	96 88	42 38	1	14	28	
83	272.3	OR 1 2 0	1 0 0	0 0	0 0	1 1	1 1	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	OR 8 10	0 0	0 0	4 2	4 2	8 24	8 4	4 0	38 34	38 34	88 80	38 34	1	12	24	
86	282.2	OR 1 2 0	1 0 0	0 0	1 1	1 1	1 1	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	OR 8 10	0 2	2 2	4 2	4 2	8 28	8 4	4 0	42 38	42 38	96 88	42 38	1	14	28	
89	292.0	OR 1 2 0	1 0 0	1 0	0 0	1 1	1 1	OR 1 0 OR 1 0 OR 0 1	1 0 1 0	0 1 0 1	0 1 0 1	OR 8 10	2 0	0 2	4 2	4 2	8 28	8 4	4 0	42 38	42 38	96 88	42 38	1	14	28	

BOM NO. 84049567
SHT 2 OF 9

DATE 07-18-17
REV. LVL. B

PRIVATE LABELING
REQUIREMENT TO
CONFORM TO
ENGINEERING
SPECIFICATION
S829103794 FOR
COMPONENTS LISTED
IN S82900-06-036

84049567

DATE 07-18-17
REV. LVL. B

DR. RHV
CK. KJV
APP. JRR

MANUFACTURED BY
DATE
BY

MANITOWOC CRANES, INC.
Manitowoc, Wisconsin

MODEL MLC300

BOOM RIGGING
B45:505-500

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DECIMAL PLACES
(1) PLACE 0.0 ±.12
(2) PLACE 0.00 ±.06
(3) PLACE 0.000 ±.006

TOLERANCE UNLESS OTHERWISE SPECIFIED
FABRICATION
±.10 FEET
±.18
±.05
±.015
±.006

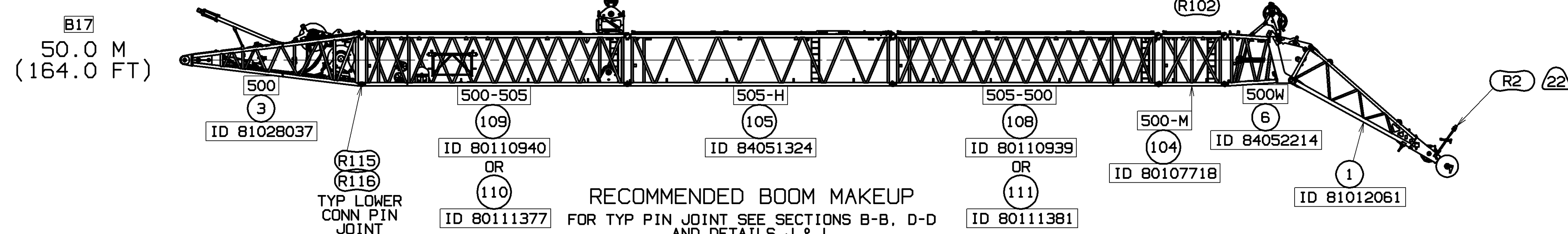
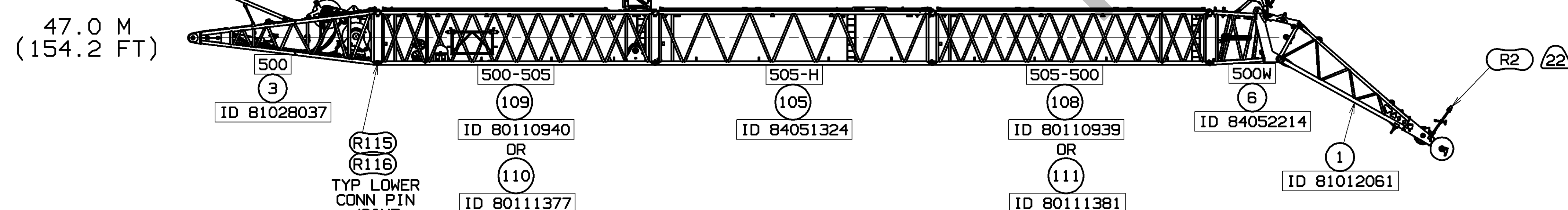
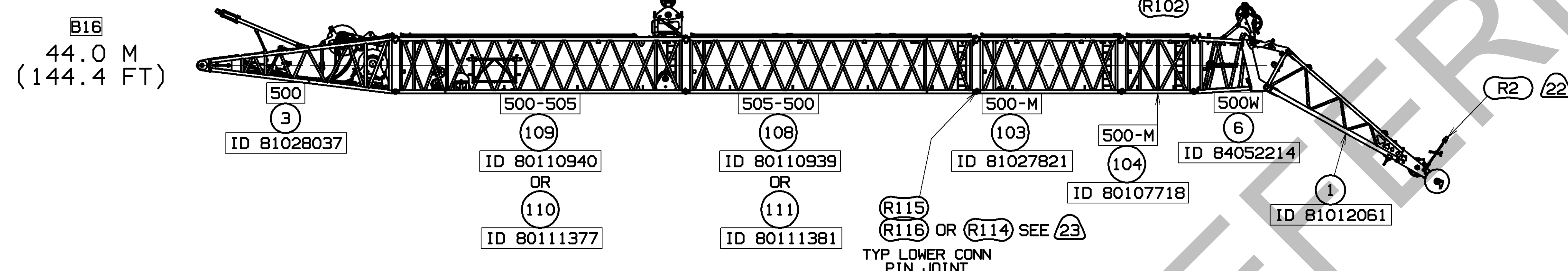
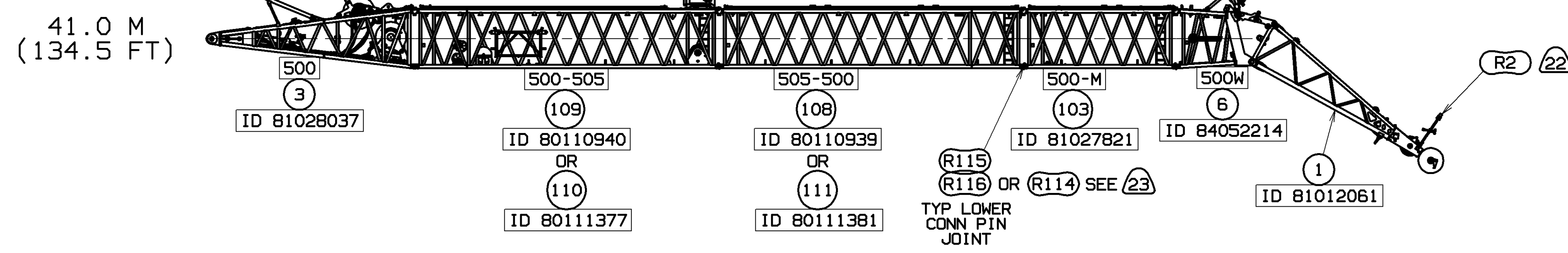
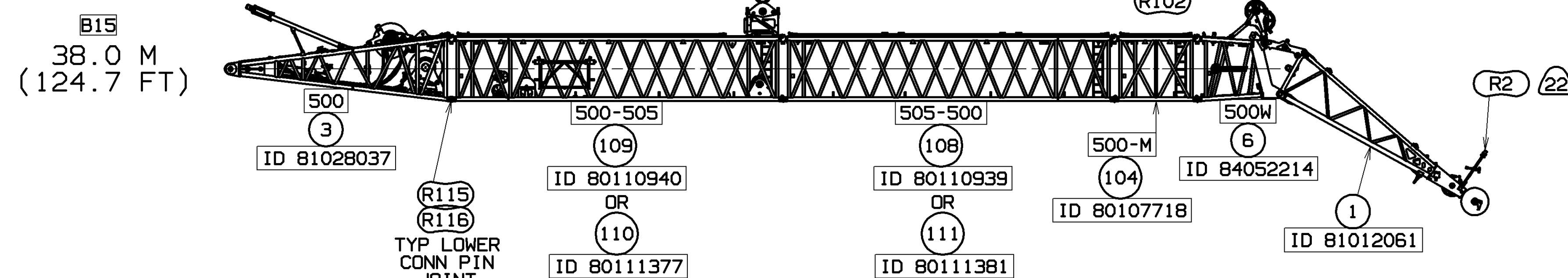
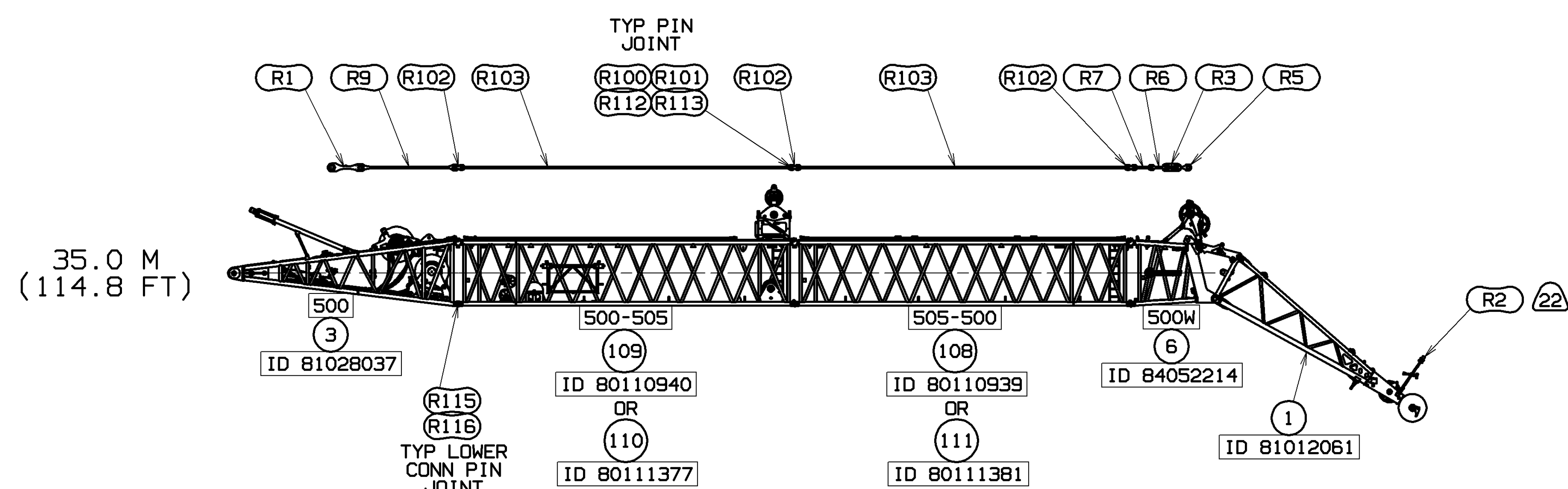
ANGLES
11°-30°
40°-50°
60°-90°

WELDING
TO THE
WELDED
SURFACE
OF THE
BASE
METAL

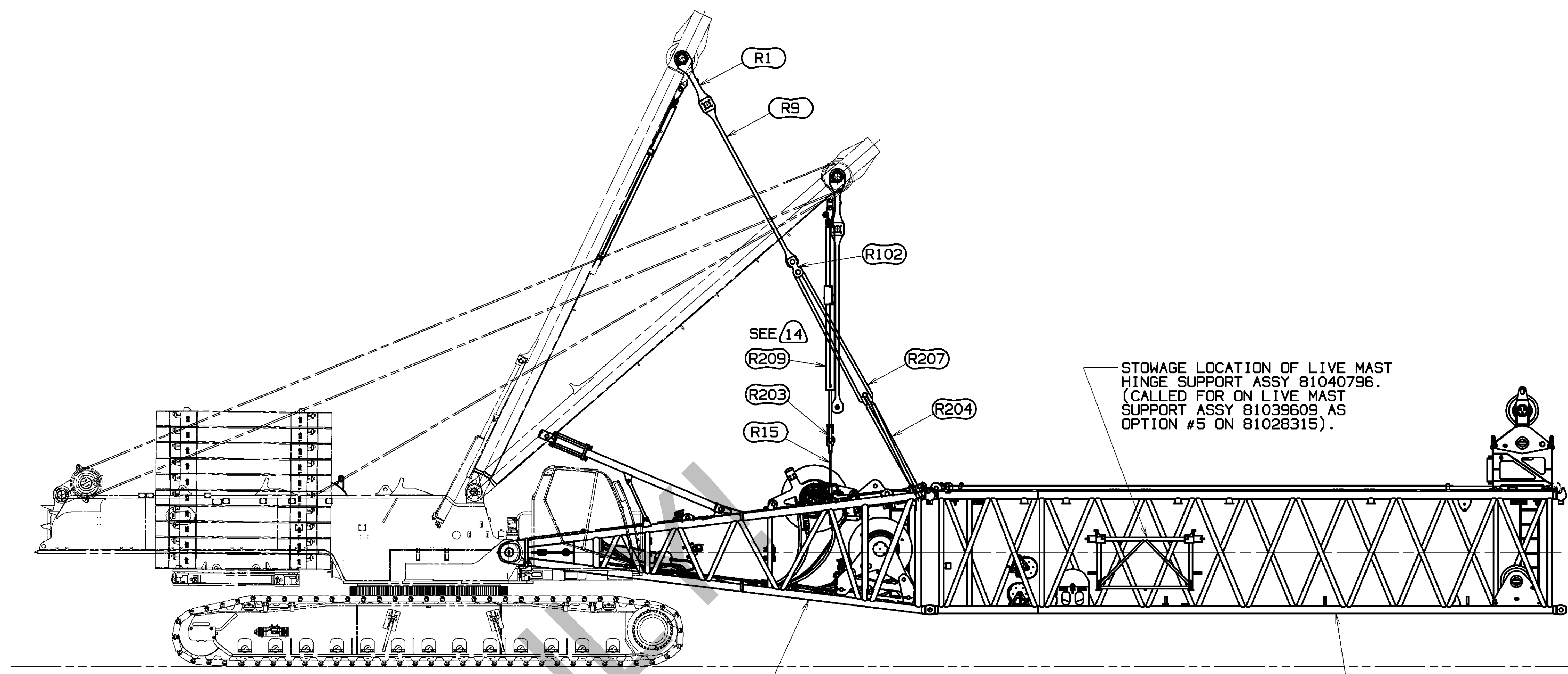
WELDING
TO THE
WELDED
SURFACE
OF THE
BASE
METAL

DO NOT SCALE THIS DRAWING

B1 SHT 2 OF 9

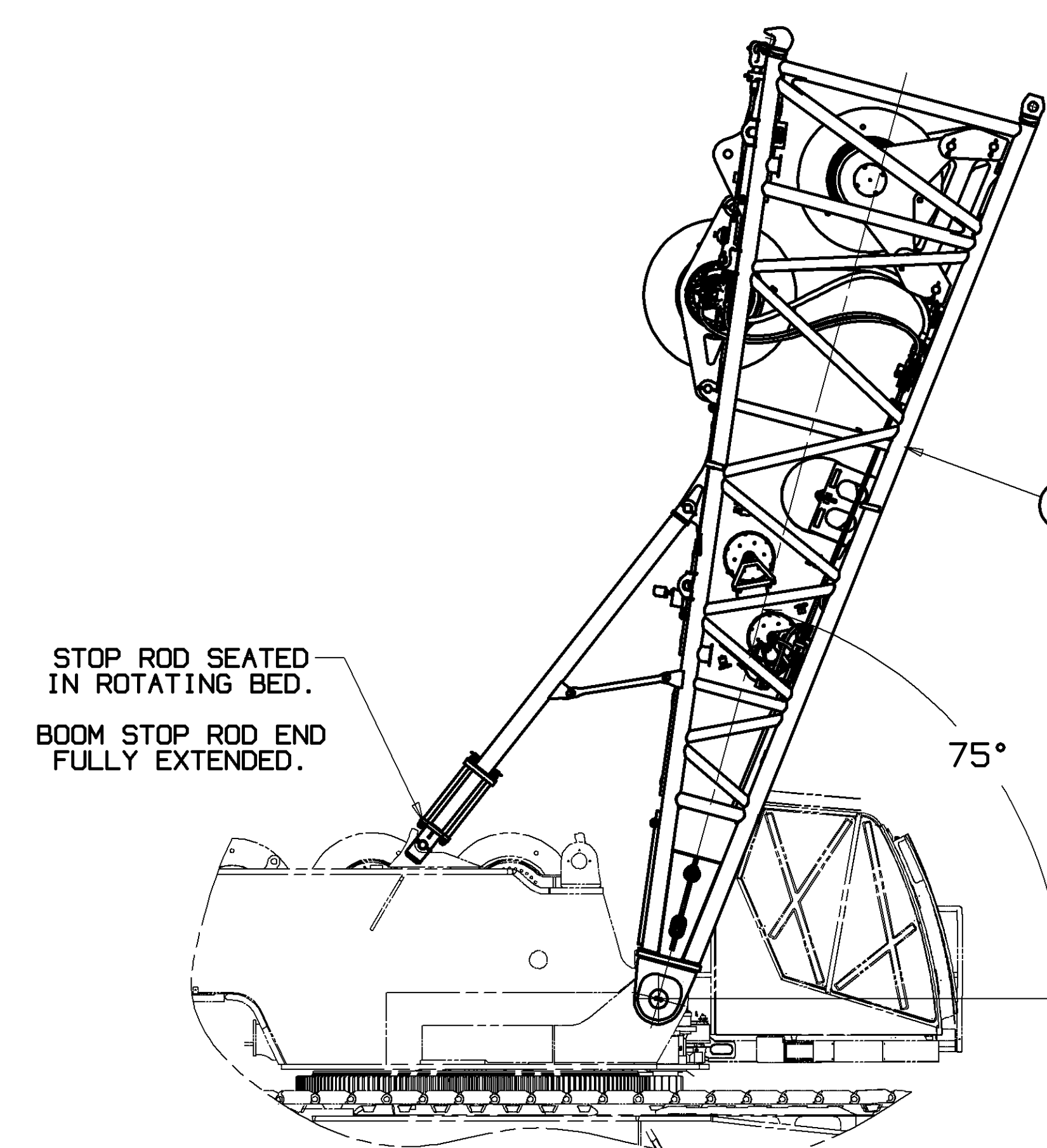


RECOMMENDED BOOM MAKEUP
FOR TYP PIN JOINT SEE SECTIONS B-B, D-D
AND DETAILS J & L

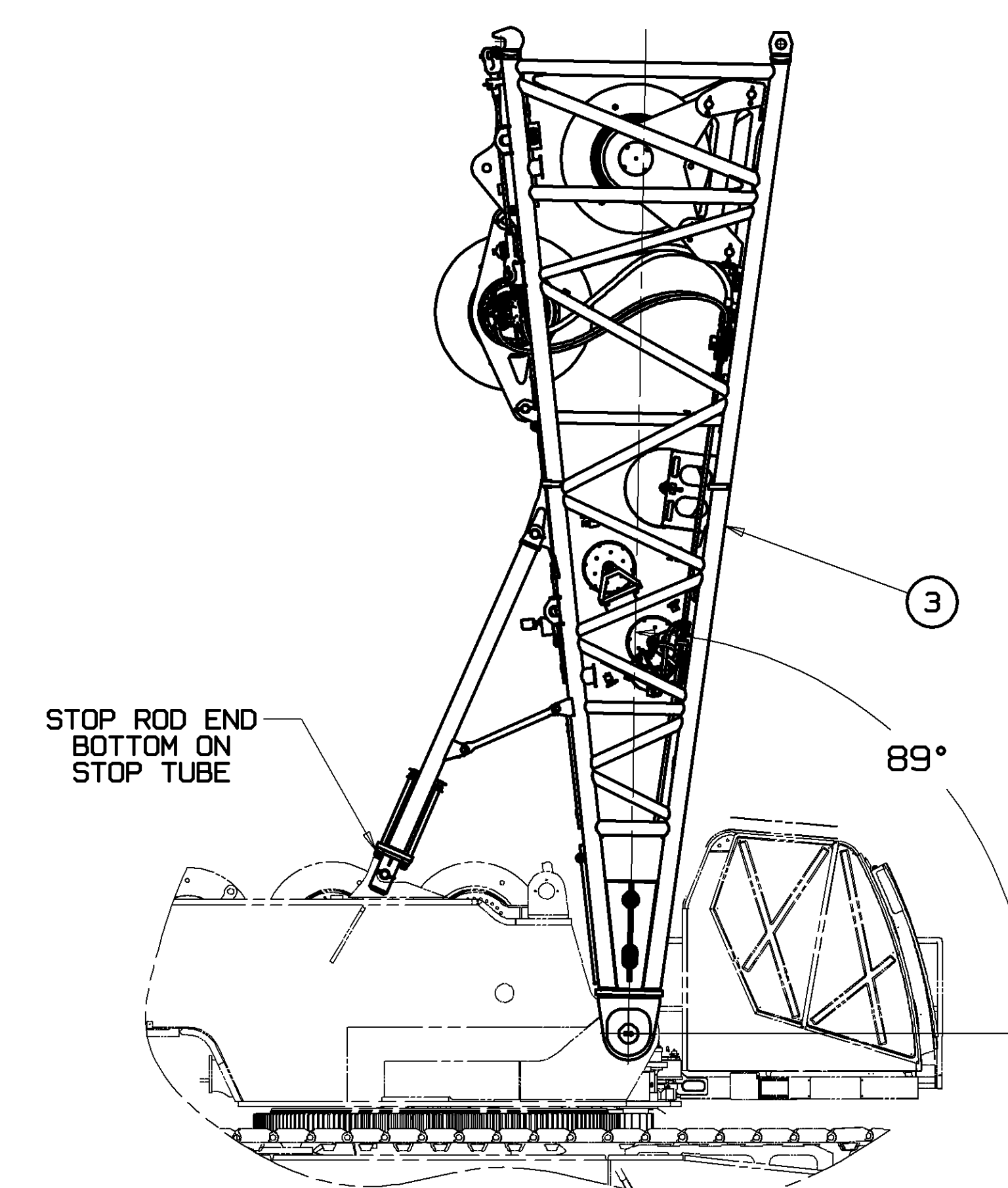


BOOM HANDLING WITH MAST
(SEE STEPS 3 AND 3A ON SHEET 8 FOR MAST TO BUTT ATTACHMENT)
SCALE 0.020

BOOM HANDLING WITH MAST MAXIMUM THAT CAN BE CANTILEVERED IS AS FOLLOWS		
	WITH LIVE MAST CYLINDER ON MAST ATTACHED TO BOOM CLOSING PENDANTS ON BOOM BUTT	WITH LIVE MAST STRAPS/LIFTING SLINGS ATTACHED TO BOOM BUTT TOP CHORDS
LENGTH	12 M (39.4 FT) INSERT 84048000 OR 80111376	12 M (39.4 FT) INSERT 84048000 OR 80111376
12M (39.4 FT)	1	1



BOOM STOP
START OF CUSHION
SCALE 0.025



BOOM STOP
PHYSICAL STOP
SCALE 0.025

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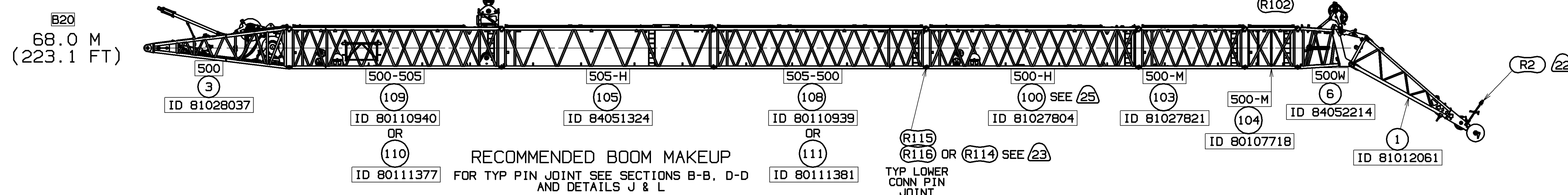
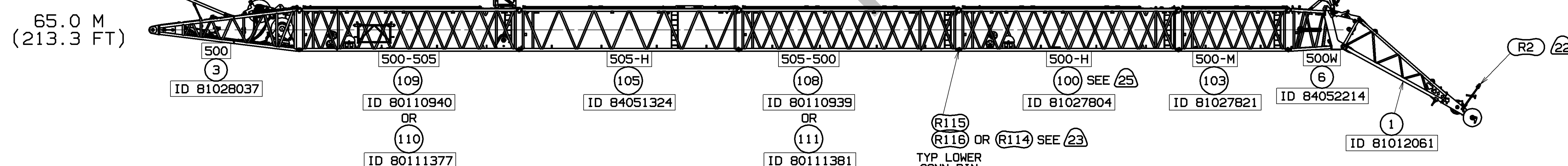
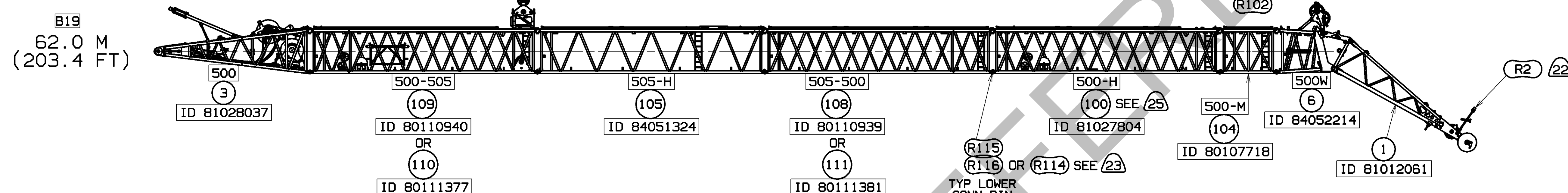
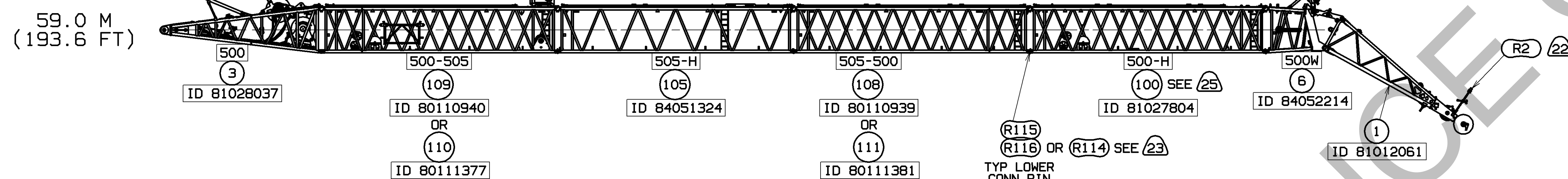
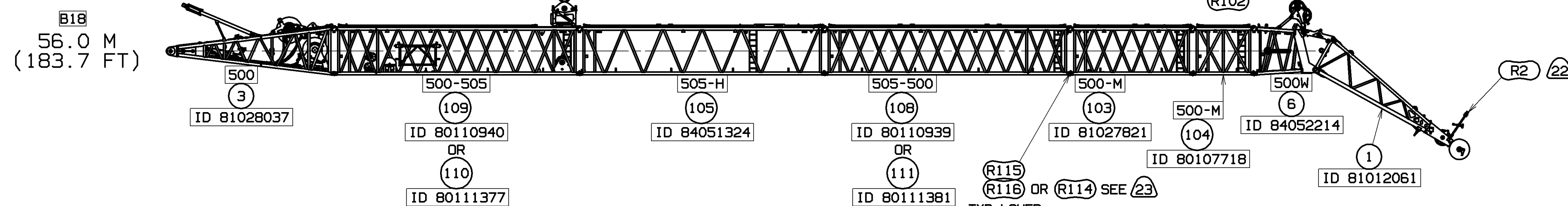
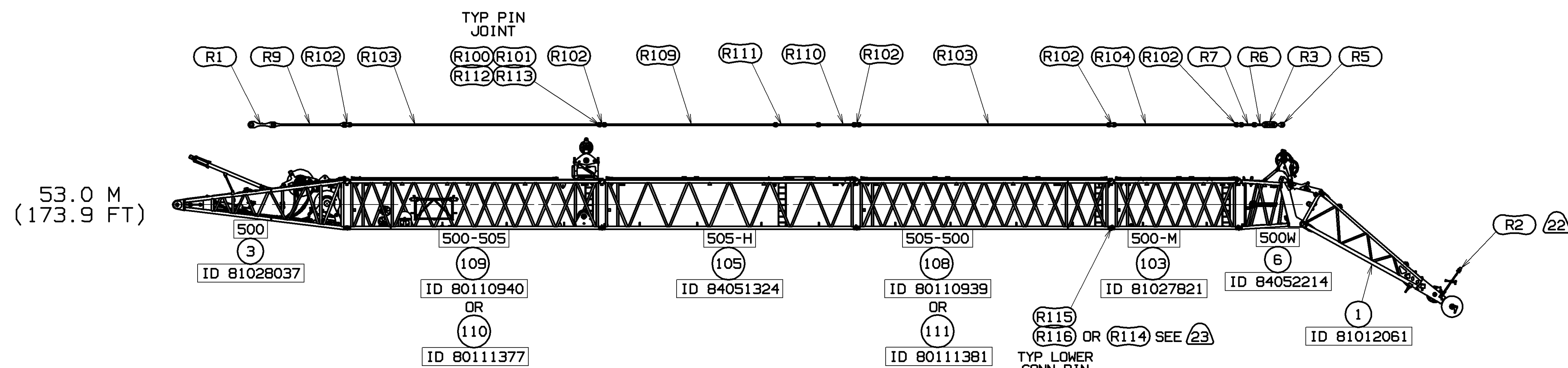
PRIVATE LABELING
REQUIREMENT TO
CONFORM TO
ENGINEERING
SPECIFICATION
S629103794 FOR
COMPONENTS LISTED
IN S62900-06-006

DATE
07-18-17

REV. LVL.
B

DATE
07-18-17

REV. LVL.
B

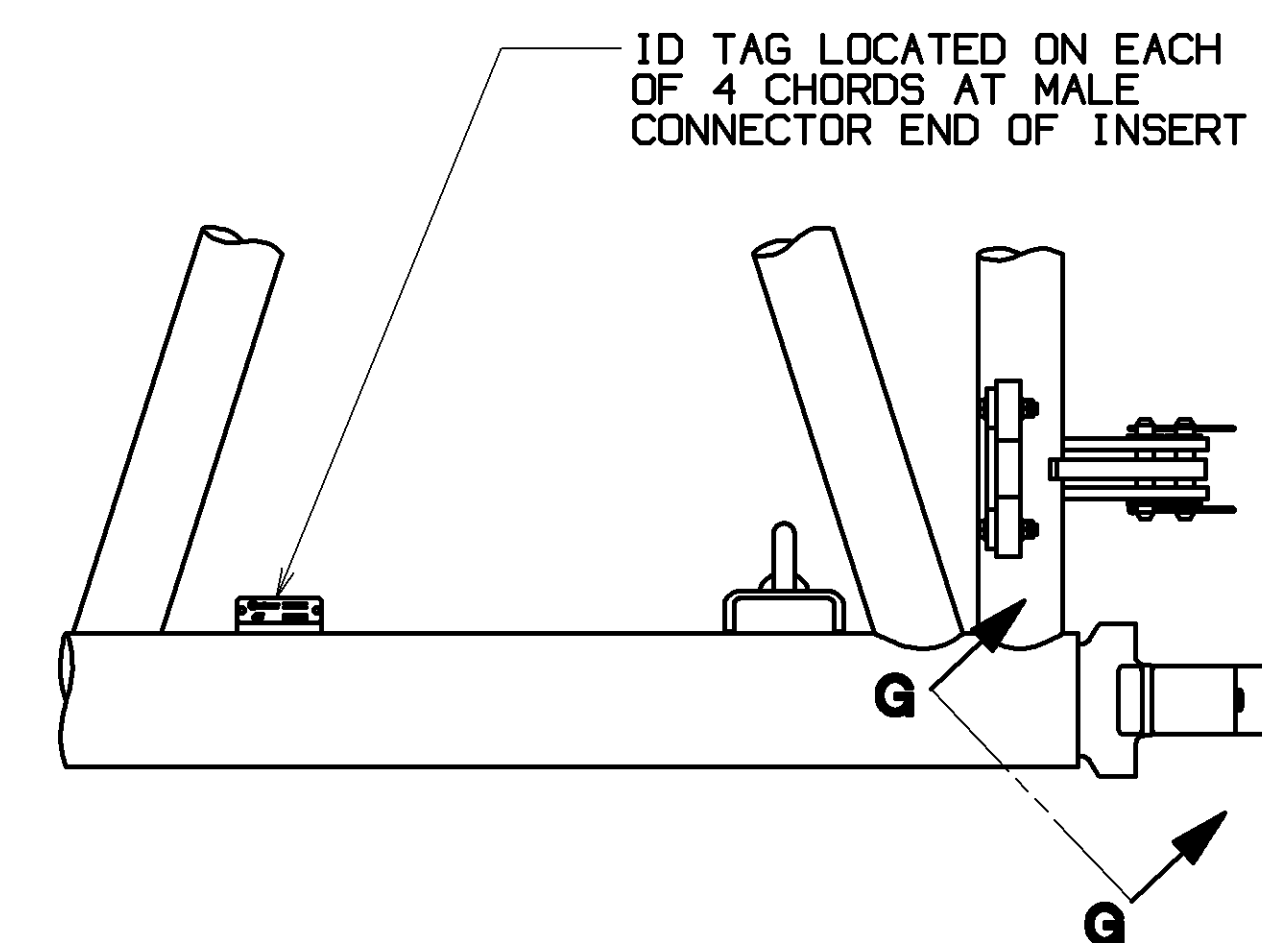
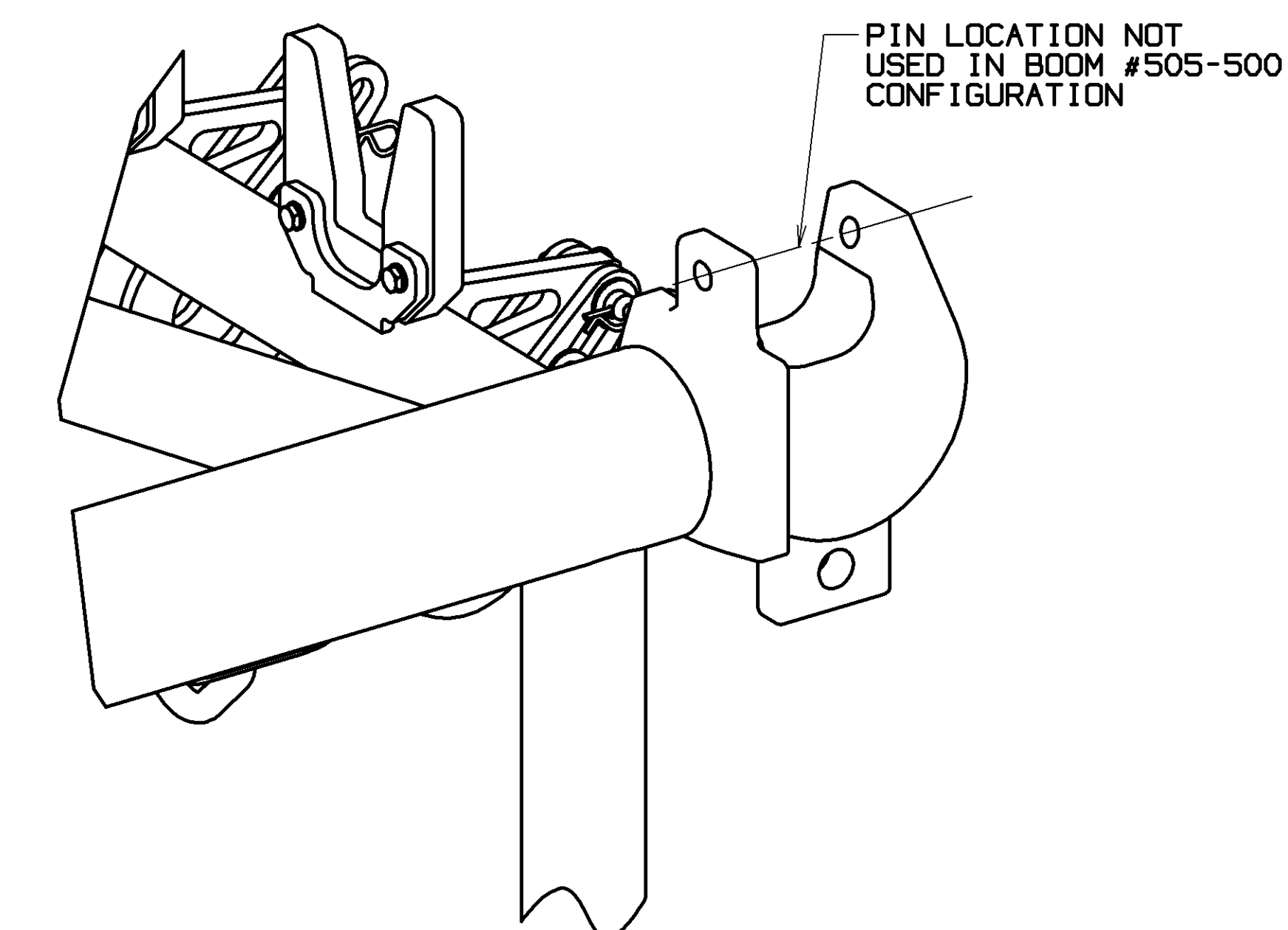
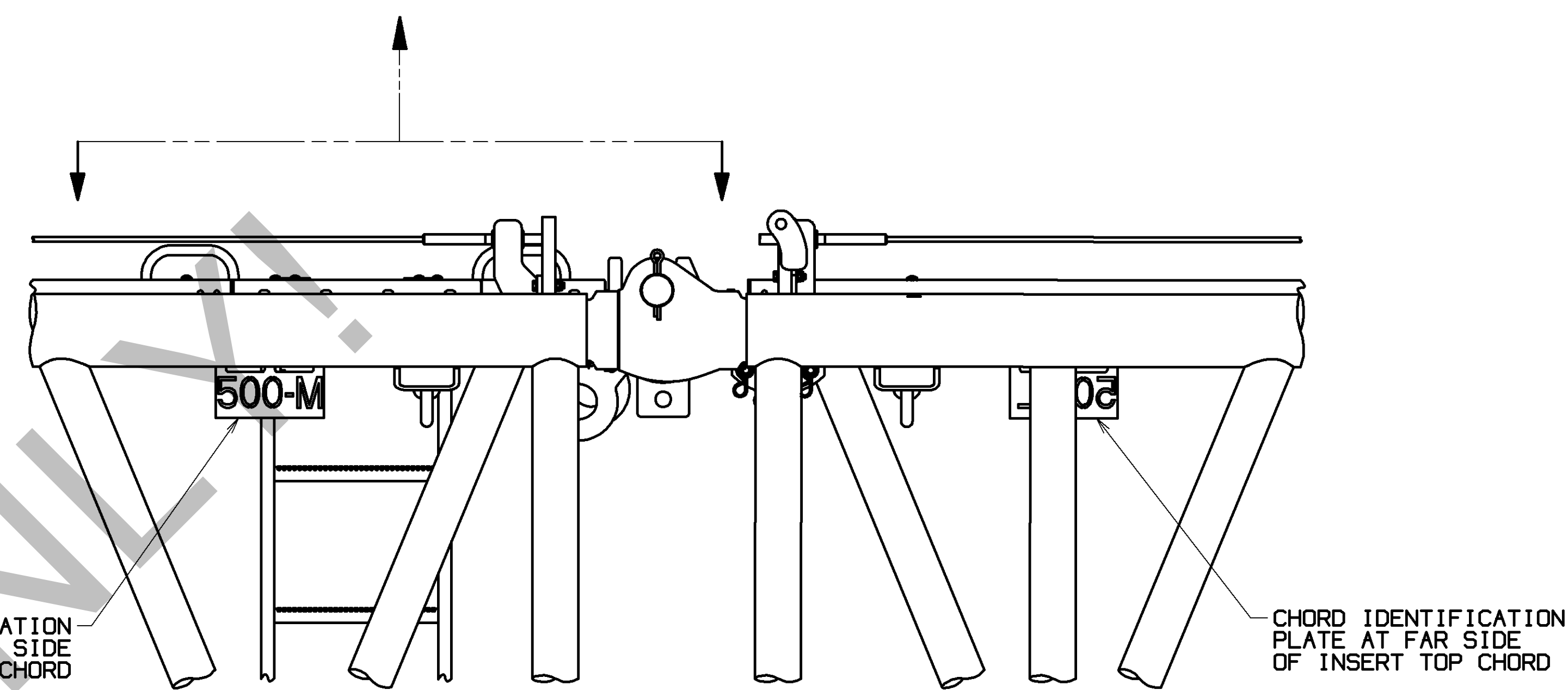


RECOMMENDED BOOM MAKEUP

FOR TYP PIN JOINT SEE SECTIONS B-B, D-D AND DETAILS J & L

TYP LOWER CONN PIN JOINT

CHORD IDENTIFICATION PLATE AT NEAR SIDE OF INSERT TOP CHORD

TYPICAL LOCATION OF INSERT ID TAGS
SCALE 0.125TYPICAL LOCATION OF BOOM CHORD IDENTIFICATION PLATE
SCALE 0.125VIEW G-G
UPPER MALE CONNECTOR PIN HOLE
SCALE 0.250

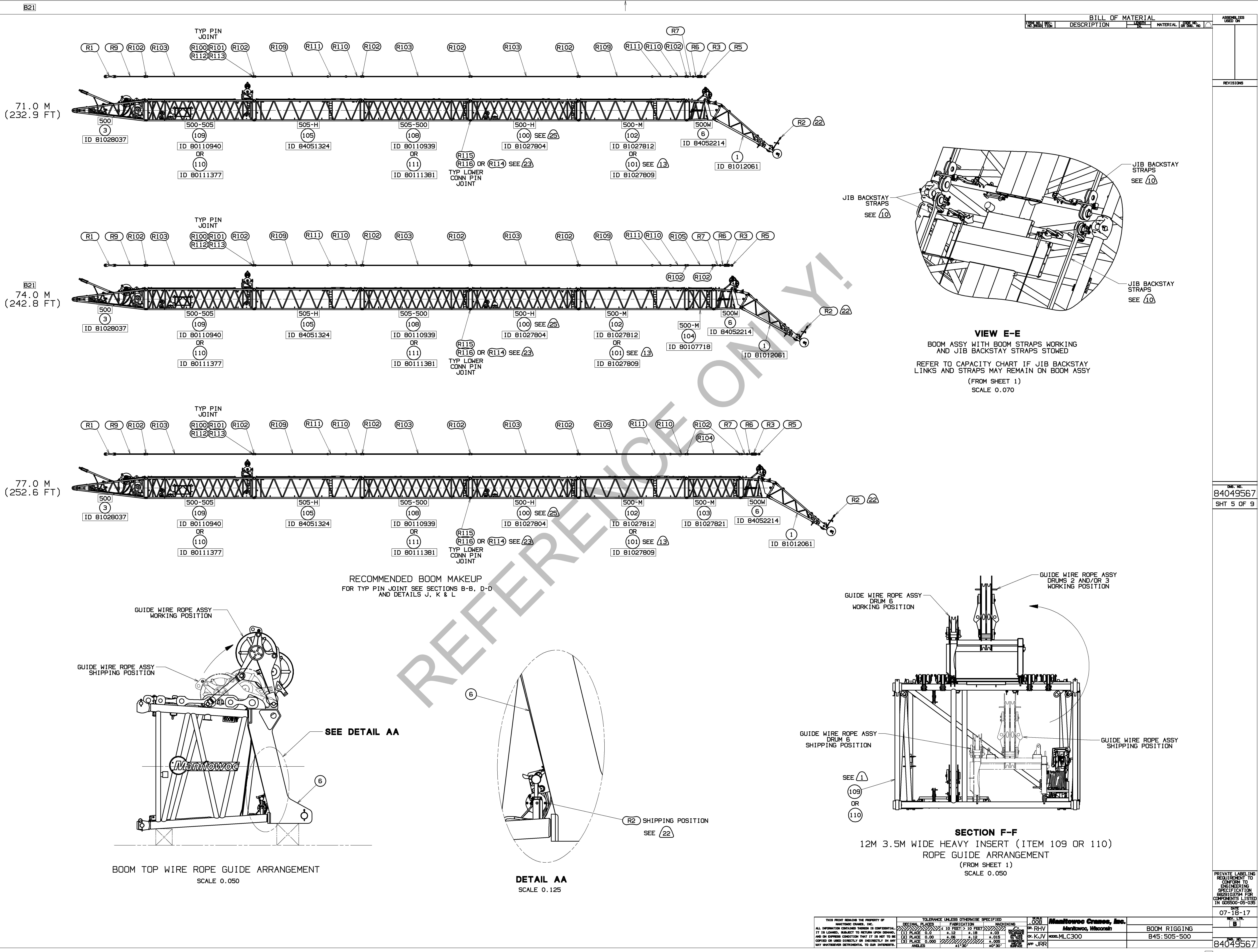
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DECIMAL PLACES	±	10 FEET	±	10 FEET	±	10 FEET	±	10 FEET	±	DR: RHV	MANITOWOC, WISCONSIN	B45:505-500	
(1) PLACE 0.0	±	0.12	±	0.18	±	0.05	±	0.05	±	CK: KJV	MODEL: MLC300	84049567	
(2) PLACE 0.00	±	0.06	±	0.12	±	0.015	±	0.015	±	APP: JRR		07-18-17	
(3) PLACE 0.000	±	0.006	±	0.006	±	0.006	±	0.006	±			REV. LTN. B	
ANGLES	±	1°	±	30'	±	30'	±	30'	±			SHT 4 OF 9	

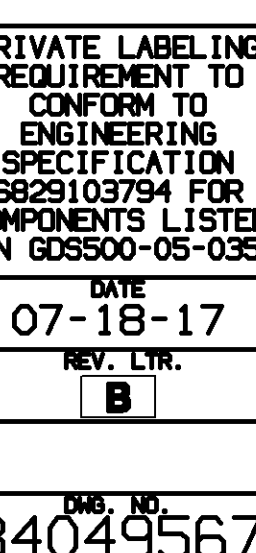
PRIVATE LABELING REQUIREMENT TO CONFORM TO ENGINEERING SPECIFICATION 8629103794 FOR COMPONENTS LISTED IN 05200-05-006

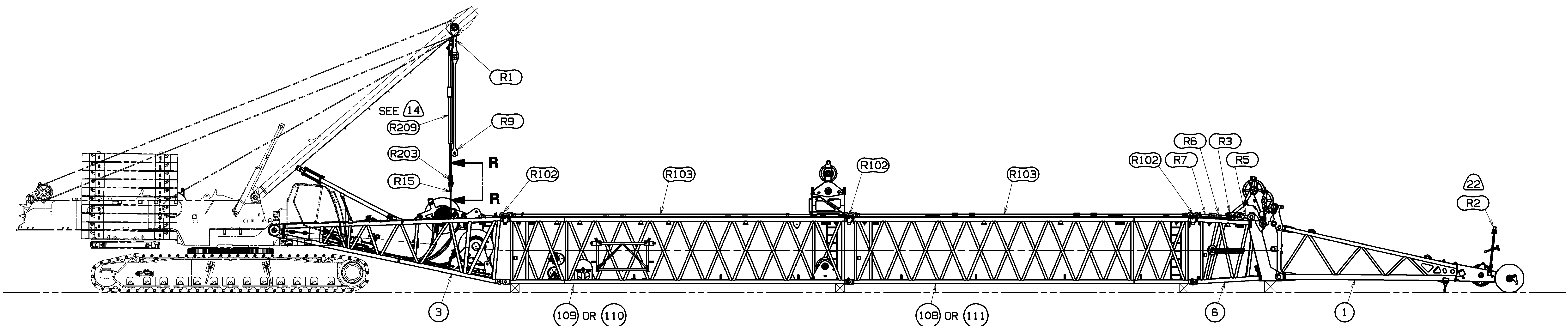
DATE 07-18-17

REV. LTN. B

SHT 4 OF 9







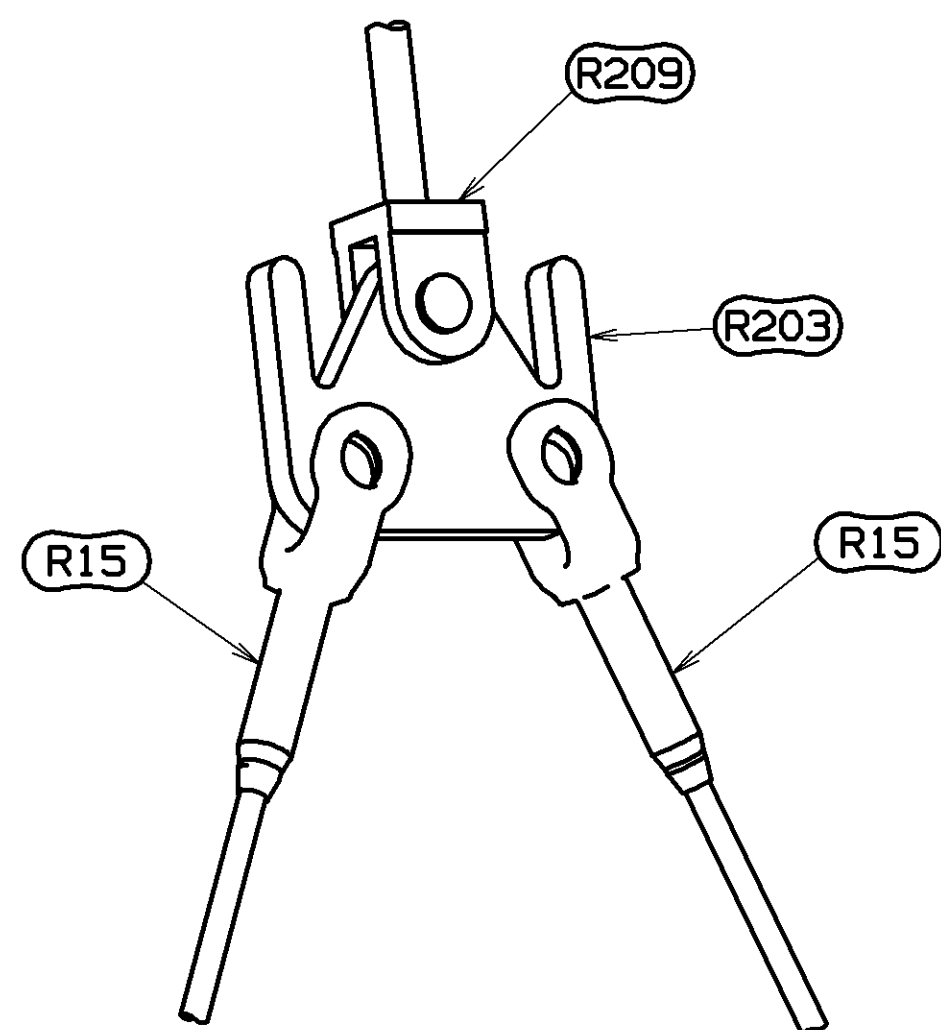
BOOM CLOSING FOR BOOM LENGTHS LESS THAN OR EQUAL TO 59 METERS USING SELF-ERECT CYLINDER WITH MAST HANDLING CAPACITIES PER 9340-A

BOOM CLOSING FOR ALL BOOM LENGTHS USING SELF-ERECT CYLINDER WITH MAST HANDLING CAPACITIES PER 9340-B

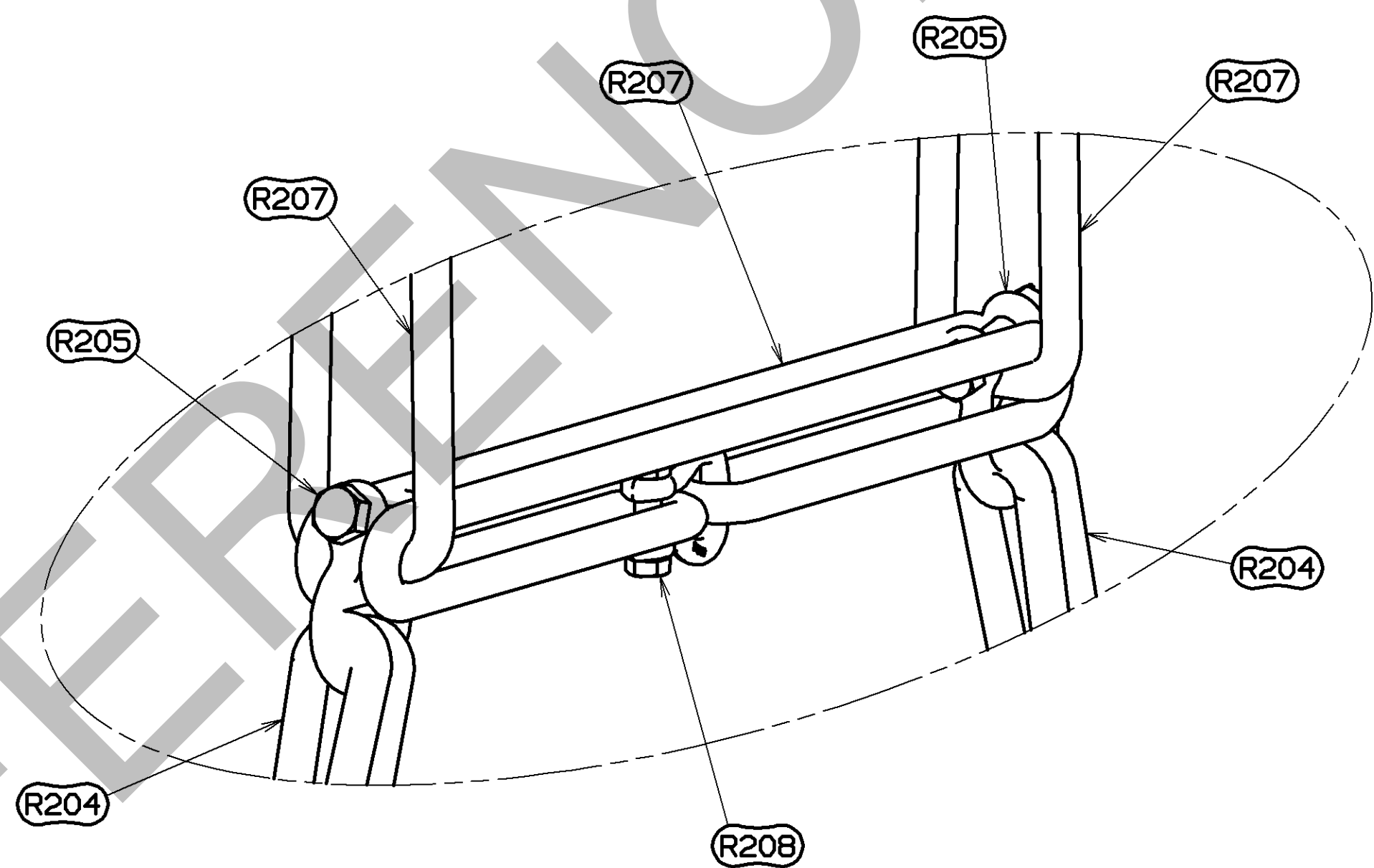
1. LOWER BUTT ASSEMBLY OVER END ONLY TO ATTACH MAST CYLINDER (R209) TO BOOM BUTT HANDLING PENDANTS (R15). (SEE VIEW R-R).
2. RAISE LIVE MAST UNTIL MAST CYLINDER (R209) HANGS VERTICALLY. USE CYLINDER TO BOOM UP TO CLEAR GROUND WITH BUTT.
3. POSITION MACHINE TO ALIGN UPPER PIN CONNECTOR ON BUTT WITH UPPER PIN CONNECTOR PINS ON 12M INSERT W/SHEAVES (ITEM 109 OR 110) AND ENGAGE PINS.
4. SLOWLY RETRACT THE MAST CYLINDER (R209) TO ALIGN LOWER PIN CONNECTOR HOLES ON BUTT WITH LOWER PIN CONNECTOR HOLES ON 12M INSERT W/SHEAVES. INSTALL CONNECTOR PINS. (SEE DETAIL H ON SHEET 6)
5. BOOM DOWN TO DISCONNECT BOOM HANDLING PENDANTS (R15) FROM MAST CYLINDER AND STOW PENDANTS ON BUTT.

WARNING:

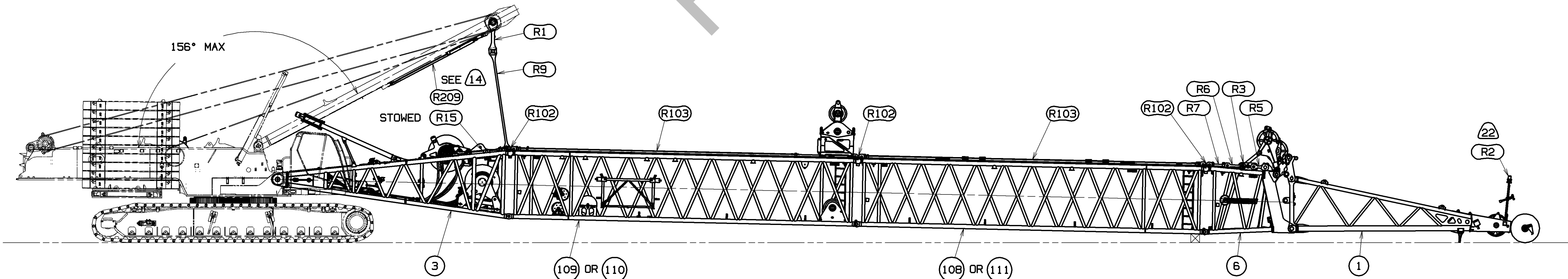
DO NOT USE MAST HOIST TO CLOSE BOOM. DO NOT RETRACT MAST CYLINDER PAST LOWER CONNECTOR HOLES. IF THE MAST HOIST IS USED OR CYLINDER RETRACTION CONTINUES AFTER CONNECTOR BOTTOM OUT OR AFTER PINS ARE INSERTED, DAMAGE TO MAST, CYLINDER AND/OR BUTT WILL OCCUR.



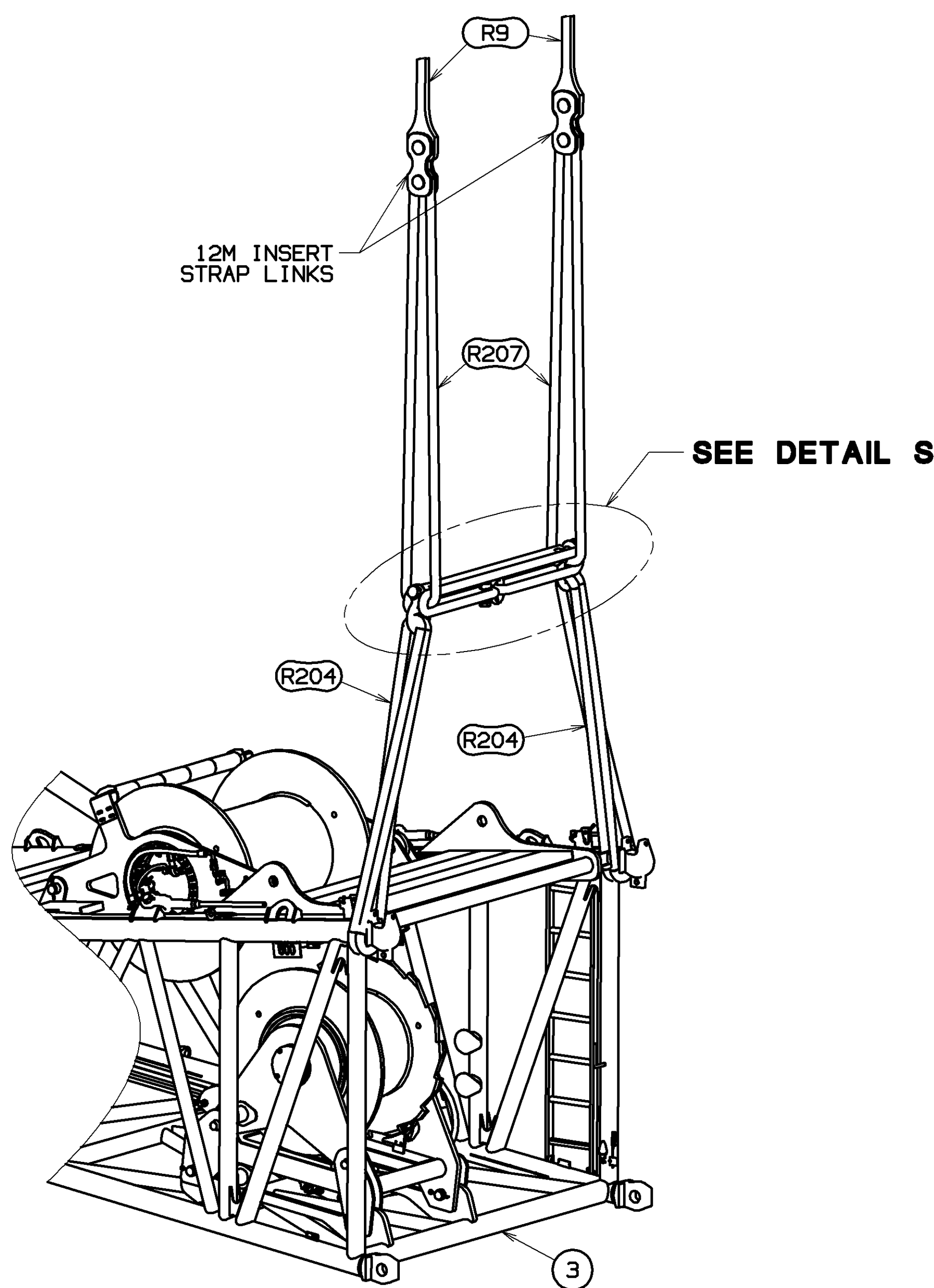
VIEW R-R
SCALE 0.125



DETAIL S
SCALE 0.125



STEP 4
STRAP HOOKUP



STEP 3A

BOOM CLOSING FOR BOOM LENGTHS GREATER THAN 59 METERS WITH MAST HANDLING CAPACITIES PER 9340-A OR AS AN ALTERNATIVE TO STEP 3 FOR ALL BOOM LENGTHS USING LIVE MAST AND LIFTING SLINGS AND SHACKLES

STEP 3A INSTRUCTIONS

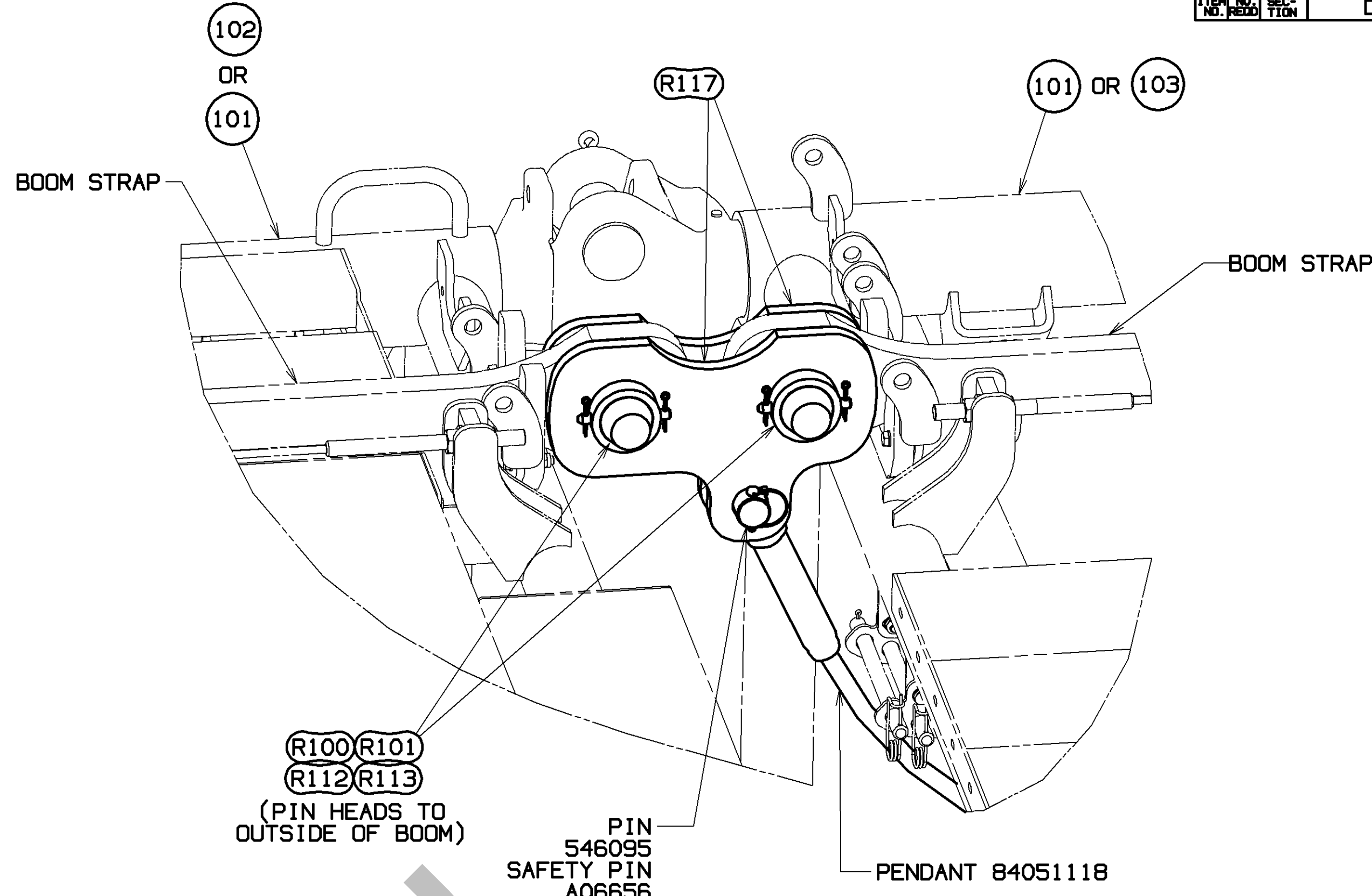
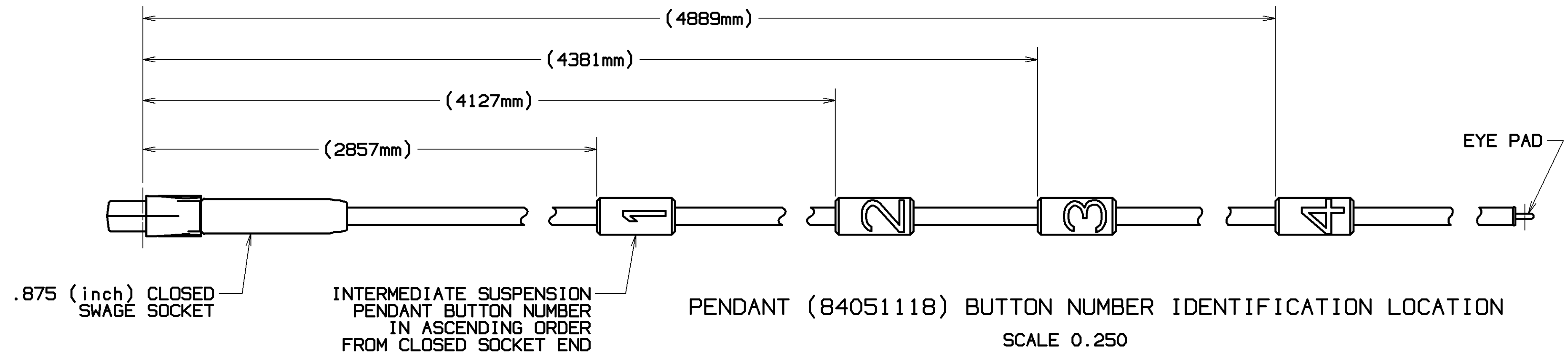
1. WITH MAST CYLINDER (R209) STOWED, LOWER LIVE MAST. DO NOT EXCEED MAST ANGLE OF 156°. THE MAST COULD FALL SUDDENLY.
 2. DETACH LINKS FROM 12M INSERT STRAP CLOSEST TO BOOM BUTT.
 3. PIN LINKS TO MAST STRAPS (R9).
 4. PIN (2) LIFTING SLINGS (R207) TO THE LINKS WITH PINS STOWED ON 12M INSERT.
 5. LOOP A HORIZONTAL LIFTING SLING (R207) THRU VERTICAL LIFTING SLINGS (R207).
 6. CONNECT ENDS OF HORIZONTAL LIFTING SLING (R207) WITH SHACKLE (R208).
 7. LOOP THE ENDS OF DIAGONAL LIFTING SLINGS (R204) AROUND THE TOP CHORDS OF THE BOOM BUTT (ITEM 3).
- CAUTION: TAKE CARE TO PROTECT LIFTING SLINGS FROM SHARP EDGES ON INBOARD SIDE OF CHORDS.
8. ATTACH SHACKLES (R205) AND DIAGONAL LIFTING SLINGS (R204) BETWEEN THE LEGS OF THE HORIZONTAL LIFTING SLING (R207).
 9. BOOM UP TO LIFT THE BOOM BUTT CLEAR OF THE GROUND.
 10. POSITION MACHINE TO ALIGN UPPER PIN CONNECTOR ON BUTT WITH UPPER PIN CONNECTOR PINS ON 12M INSERT W/SHEAVES AND ENGAGE PINS.
 11. BOOM UP TO RAISE THE BOOM BUTT UNTIL THE BOTTOM CONNECTOR HOLES ALIGN AND ENGAGE PINS. (SEE DETAIL H ON SHEET 6)
 12. BOOM DOWN TO DISCONNECT BOOM HANDLING SLINGS AND SHACKLES. STOW IN PARTS BOX 81028769.

WARNING:

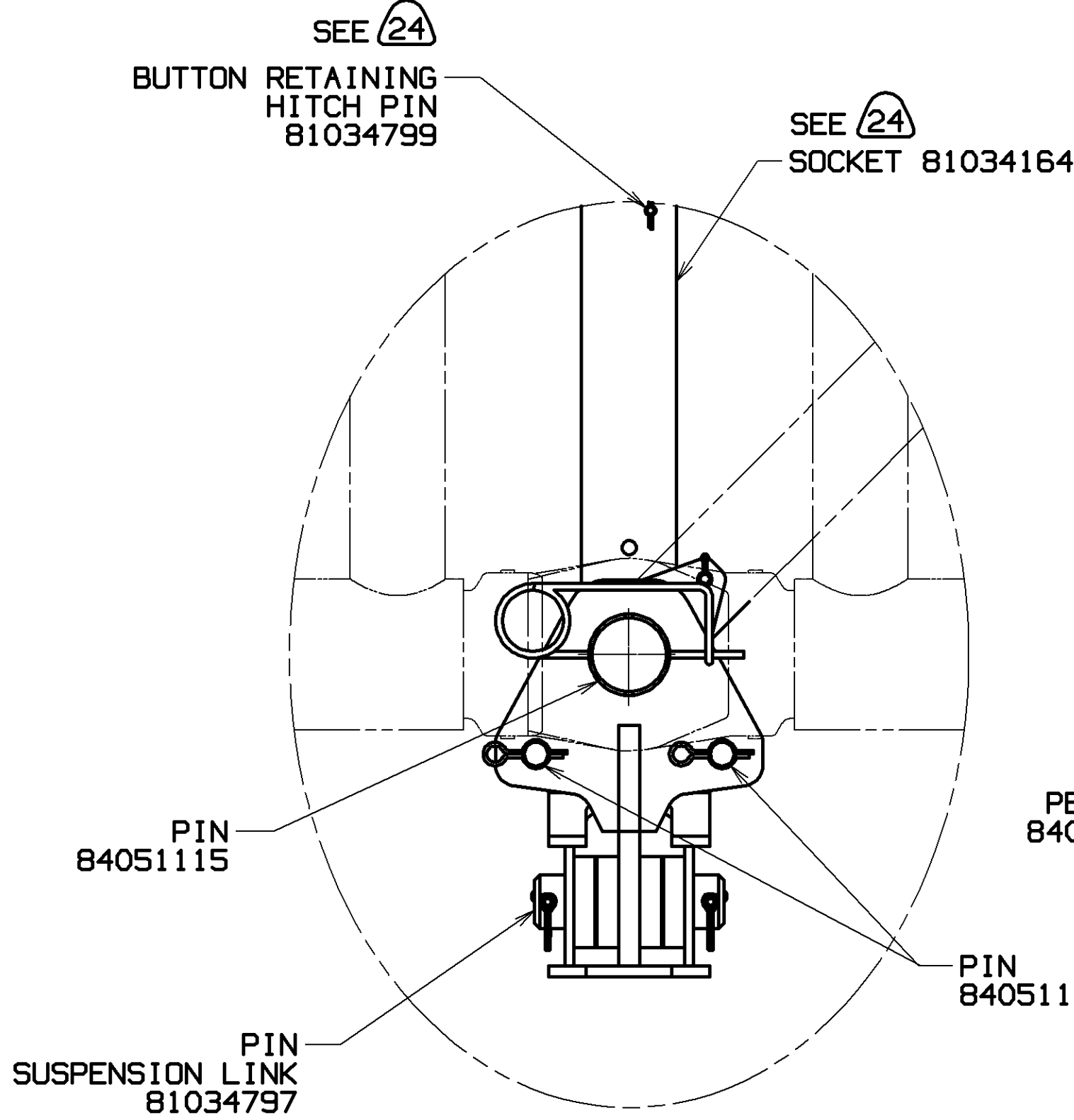
DO NOT BOOM UP PAST LOWER CONNECTOR HOLES. IF BOOMING UP CONTINUES AFTER CONNECTORS BOTTOM OUT OR AFTER PINS ARE INSERTED, DAMAGE TO MAST AND/OR BUTT WILL OCCUR.

TOLERANCE UNLESS OTHERWISE SPECIFIED				MATERIAL		MANUFACTURE		PARTS BOX	
DECIMAL PLACES	FRACTIONS	INCHES	MILLIMETERS	QTY	NO.	QTY	NO.	QTY	NO.
(1) PLACE 0.5	1/2	1/2	12.7	1	1	1	1	1	1
(2) PLACE 0.00	1/16	1/16	1.5875	1	1	1	1	1	1
(3) PLACE 0.000	1/64	1/64	0.390625	1	1	1	1	1	1
ANGLES	11° 30'	11° 30'	11° 30'	1	1	1	1	1	1

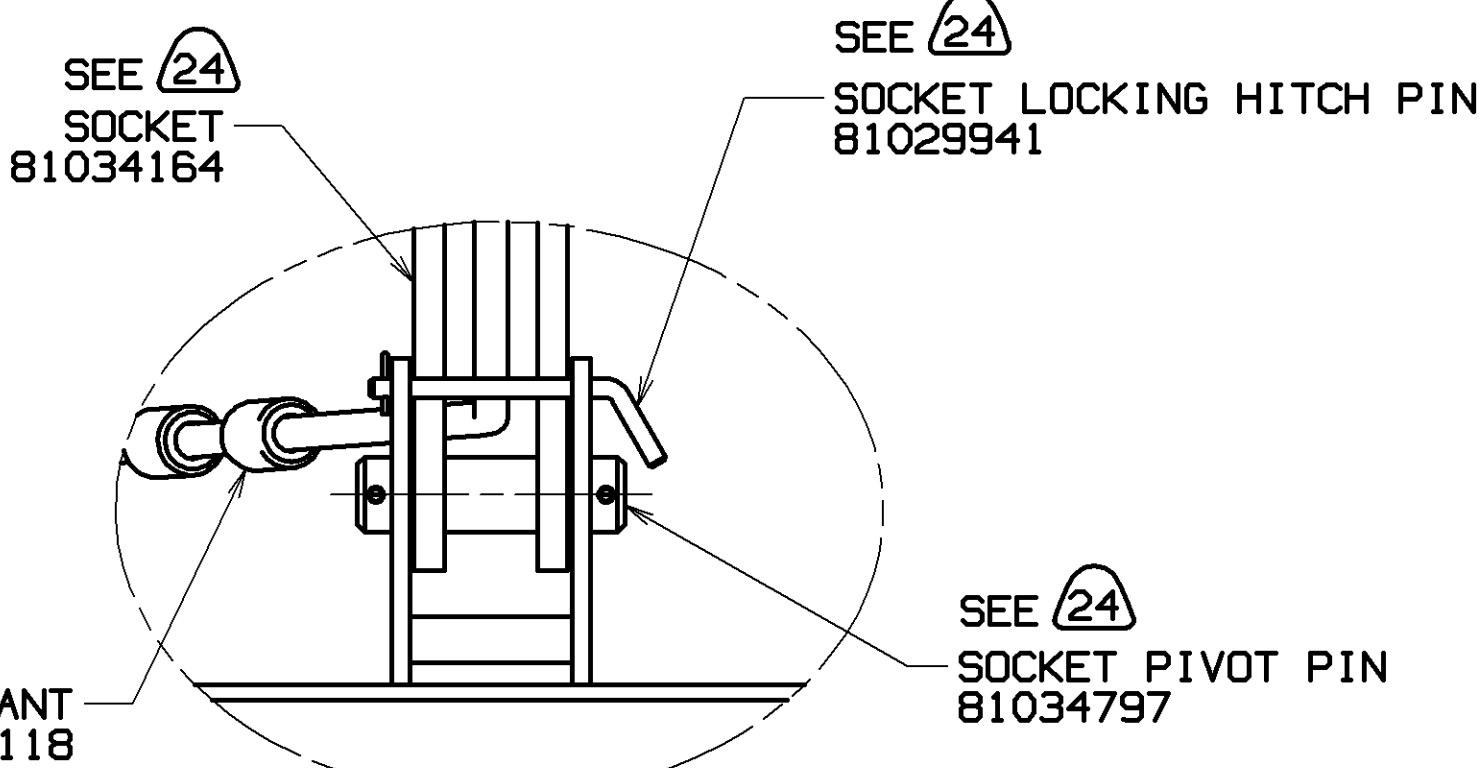
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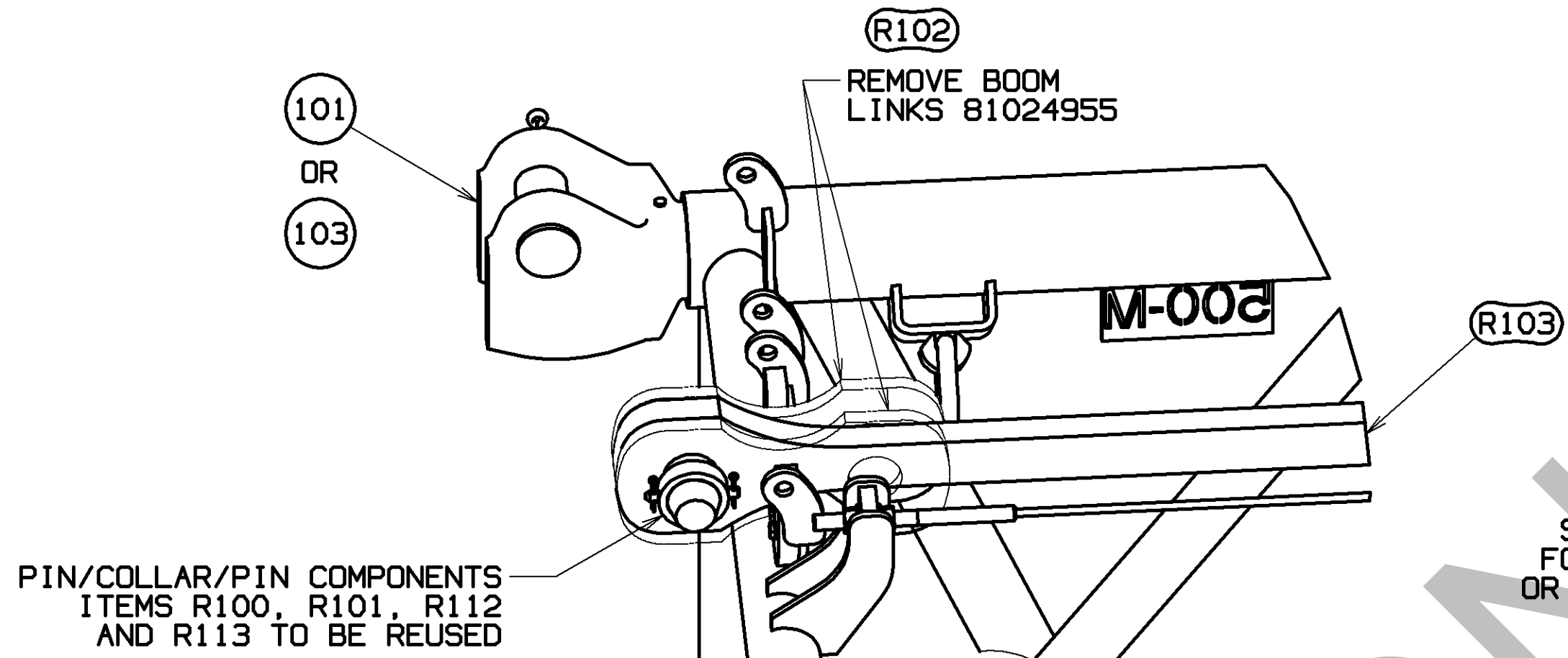
VIEW X-X - WORKING
SCALE 0.200



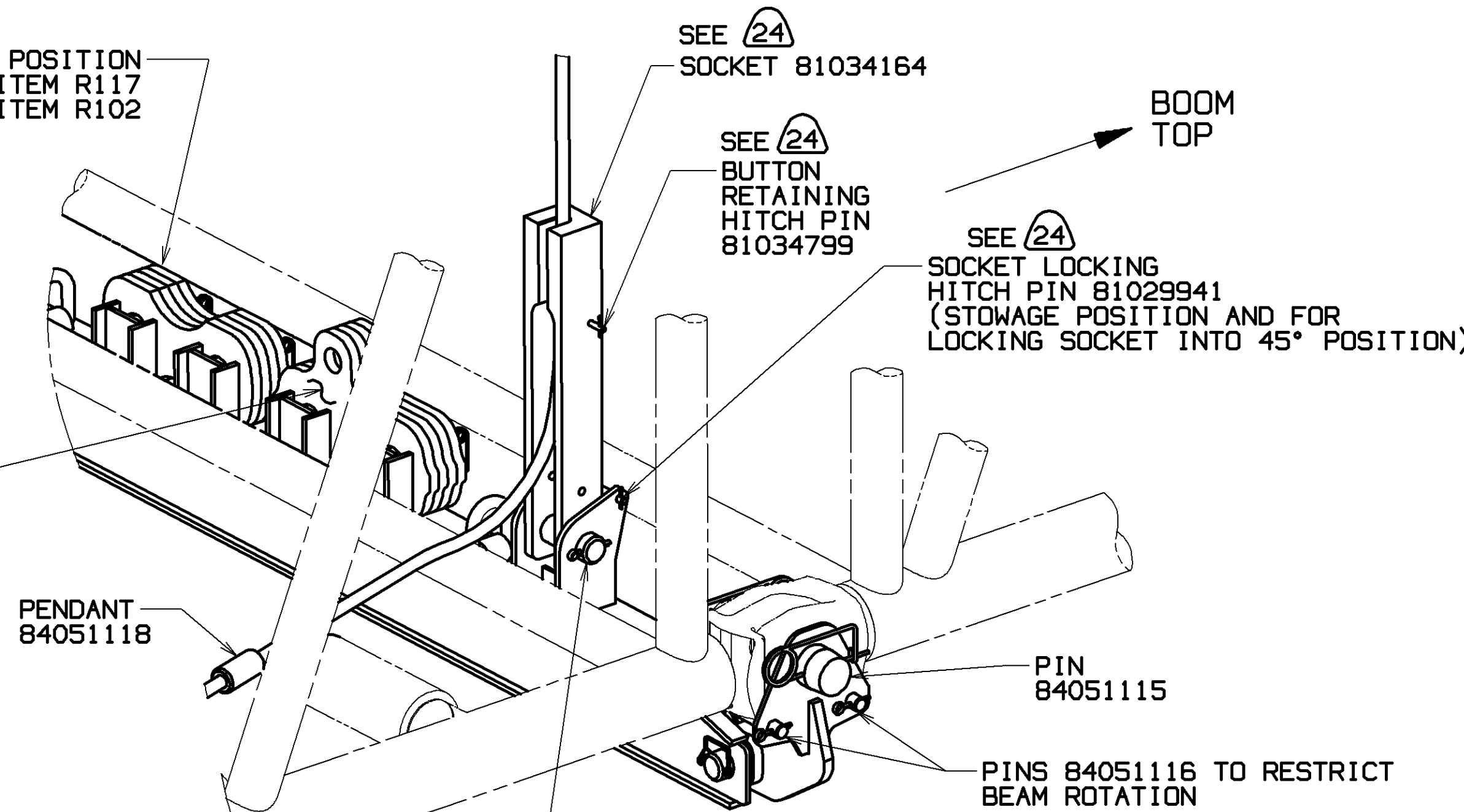
DETAIL V
SCALE 0.200



DETAIL W
SCALE 0.200

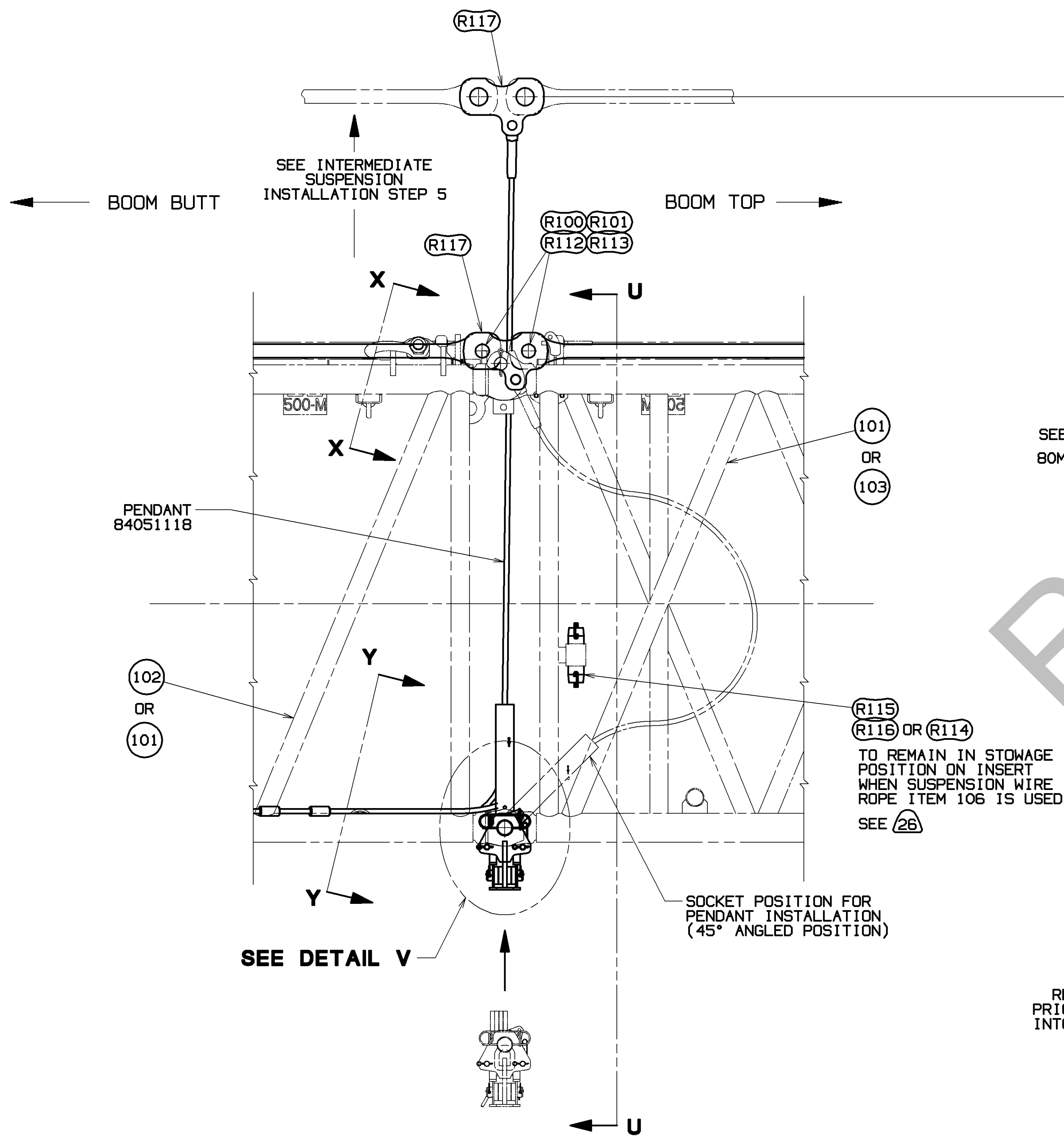


VIEW X-X - PREP
SCALE 0.150



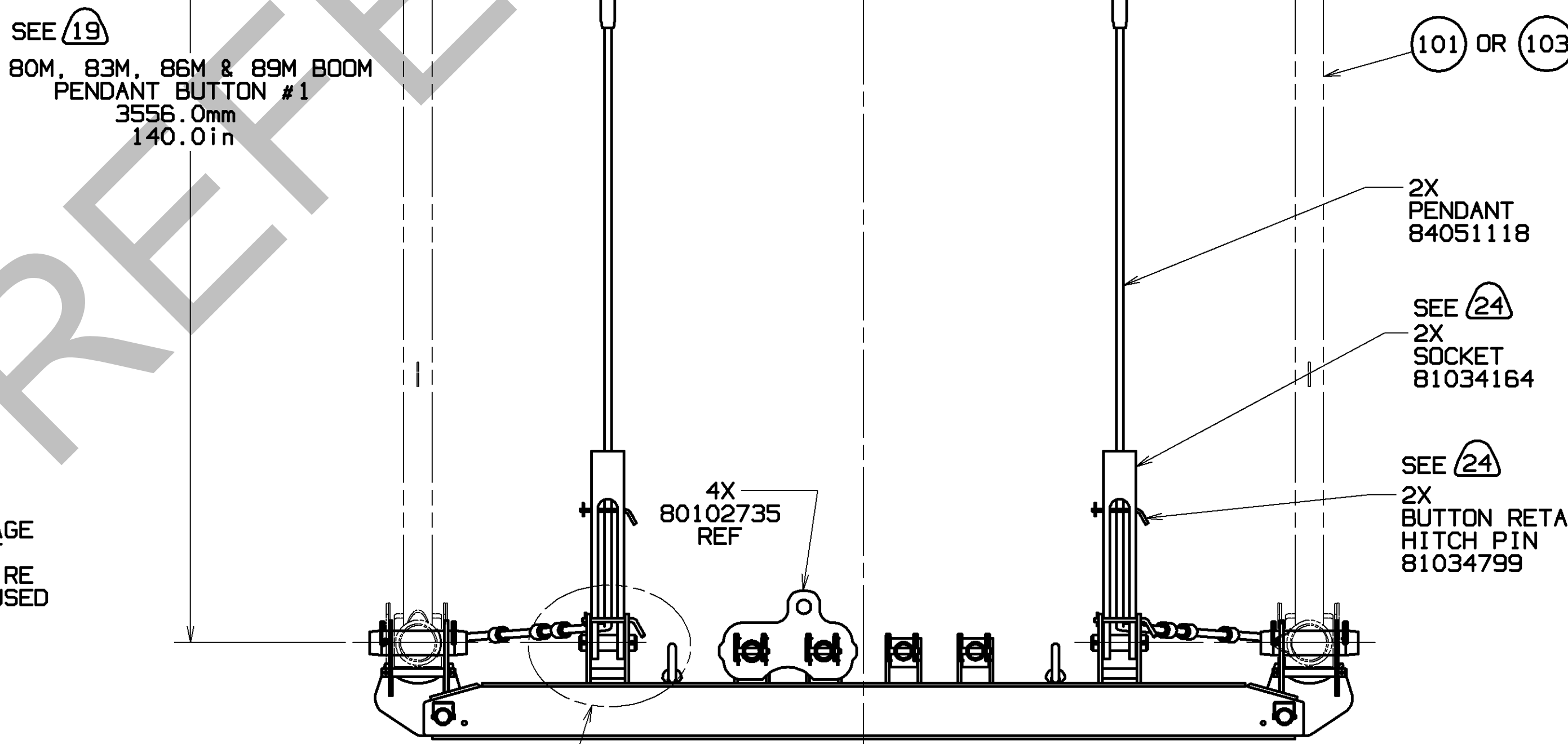
VIEW Y-Y - WORKING
SCALE 0.125

STOWAGE POSITION OF SUSPENSION LINKS 80102735. THE IRREGULAR END PROFILE DISTINGUISHES THEM FROM THE SMOOTH END PROFILE ON LINKS ITEM R117. (80102735 WILL BE USED IN LUFFING JIB CONFIGURATION).



SEE DETAIL V

DETAIL T
SUSPENSION WIRE ROPE
ITEM 106, 84051095
(FROM SHEET 6)
SCALE 0.075



SEE DETAIL W

REMOVE PIN 84051115 PRIOR TO RAISING BEAM INTO WORKING POSITION

2X LOWER SUSPENSION LINK

SUSPENSION BEAM

2X PIN SUSPENSION LINK 84034797

SECTION U-U
SCALE 0.075

LOCATION OF SOCKET LOCKING HITCH PIN (81029941) IN SUSPENSION BEAM DURING SETUP TO ALIGN THE LOWER SUSPENSION LINK

INTERMEDIATE SUSPENSION (ITEM 106) INSTALLATION

SEE BOOM MAKEUP VIEWS ON SHEETS 3, 4, 5 & 6 AND BOOM LENGTH TABLE ON SHEET 2 FOR REQUIRED SUSPENSION & WIRE ROPE BUTTON IDENTIFICATION LOCATION. REFERENCE SUSPENSION WIRE ROPE ASSY 84051095 FOR ADDITIONAL INFORMATION. (REFER TO VIEW OF PENDANT 84051118 ON THIS SHEET FOR BUTTON NUMBER I.D. LOCATION).

1. FROM MATING INSERT TOWARD BOOM TOP (ITEM 101 OR 103), REMOVE (4) BOOM LINKS (R102) AND STORE IN PARTS BOX 81028769 OR ON SUSPENSION BEAM AFTER LINKS ITEM R117 HAVE BEEN REMOVED. (SEE Y-Y - WORKING). PIN/COLLAR/PIN COMPONENTS (ITEMS R100, R101, R112 & R113) WILL BE REUSED WITH SUSPENSION LINK PER STEP 4 BELOW. (SEE VIEW X-X - PREP).
2. POSITION SUSPENSION BEAM AND LOWER SUSPENSION LINK UNDER APPROPRIATE INSERT AT MALE CONNECTOR END. ASSEMBLE UPPER CONNECTOR OF MATING INSERT AND PIVOT INSERT TO ALIGN LOWER CONNECTOR HOLES. WITH SOCKETS 81034164 AND LOWER CONNECTOR PINS 84051115 REMOVED FROM SUSPENSION BEAM, USE AN ASSIST TO RAISE SUSPENSION BEAM ASSY TO ALIGN LOWER CONNECTOR AND LOWER SUSPENSION LINK HOLES. REINSTALL PIN 84051115. (SEE DETAIL T AND SECTION U-U).
3. REINSTALL SOCKET INTO SUSPENSION BEAM AND PIVOT SOCKET INTO 45° POSITION. REINSTALL SOCKET LOCKING PIN THRU BRACKET AND SOCKET (ANGLED POSITION). (SEE DETAIL T).
4. ATTACH INSERT BOOM STRAPS WITH DOUBLE LINKS (R117) USING EXISTING PIN/COLLAR/PIN COMPONENTS (ITEMS R100, R101, R112 & R113) REMOVED IN VIEW X-X - PREP. ATTACH CLOSED SOCKET END OF PENDANT 84051118 TO LINKS R117. (SEE VIEW X-X - WORKING).
5. WITH SOCKET LOCKED IN 45° POSITION, SLOWLY RAISE BOOM. AS THE STRAPS RISE, GUIDE THE INTERMEDIATE SUSPENSION PENDANTS THROUGH THE OPENING BETWEEN THE BOOM INSERTS. STOP THE BOOM RAISING PROCEDURE WHEN THE REQUIRED PENDANT NEARS THE SOCKET. REMOVE BUTTON RETAINING HITCH PIN FROM SOCKET. POSITION THE IDENTIFIED PENDANT BUTTON OF THE MULTI-BUTTON PENDANT 84051118 INTO SOCKET AND REINSTALL BUTTON RETAINING HITCH PIN INTO SOCKET, LOCKING PENDANT IN POSITION. (SEE DETAIL T).
6. PRIOR TO CONTINUATION OF BOOM RAISING, REMOVE SOCKET LOCKING HITCH PIN FROM 45° POSITIONED SOCKET AND BRACKET. STOW IN BRACKET HOLE (STOWAGE POSITION) ALLOWING SOCKET TO PIVOT AS BOOM STRAPS RAISE. (SEE VIEW Y-Y - WORKING).
7. BOOM UP SLOWLY AS PENDANT BECOMES TIGHT AND SOCKET PIVOTS INTO WORKING POSITION.

FOR REMOVAL OF DROP-DOWN INTERMEDIATE SUSPENSION (ITEM 106) REVERSE INSTALLATION STEPS 1 THRU 7, ASSURING SOCKET PIVOTS TOWARD 45° POSITION WHEN LOWERING BOOM STRAPS.