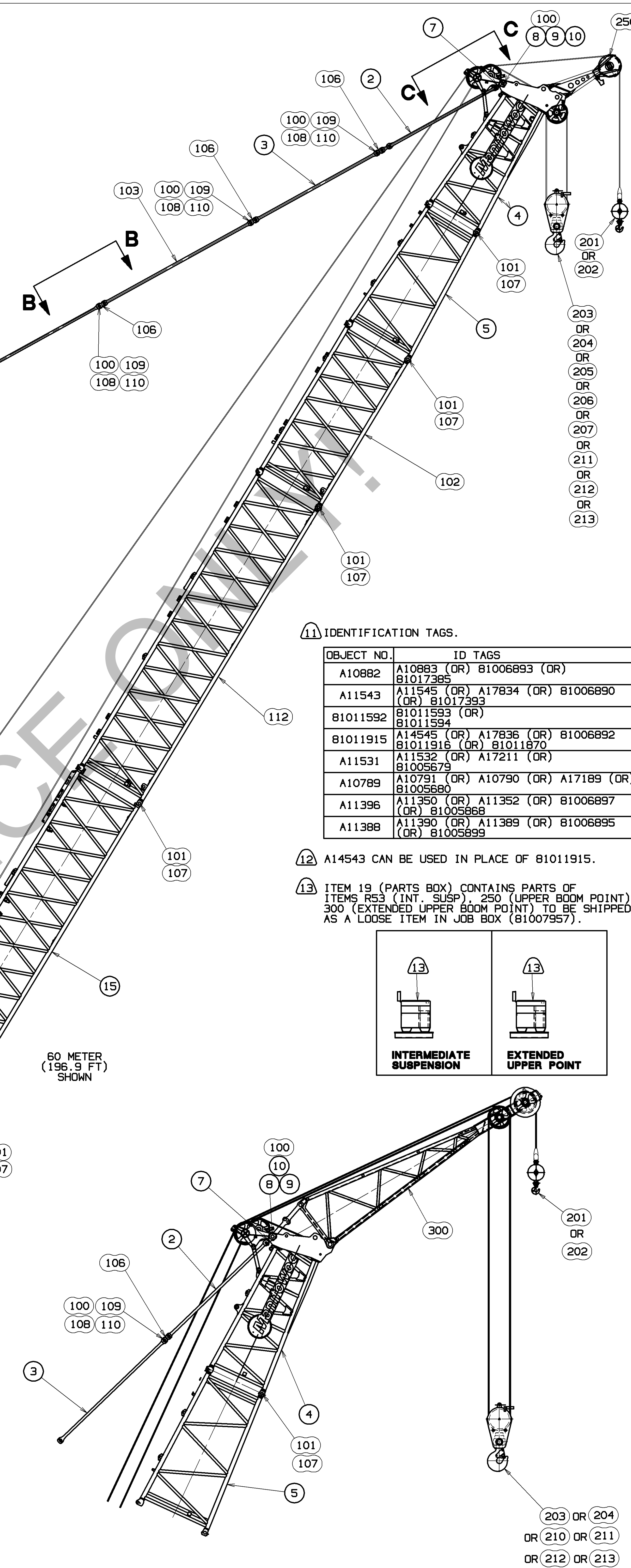
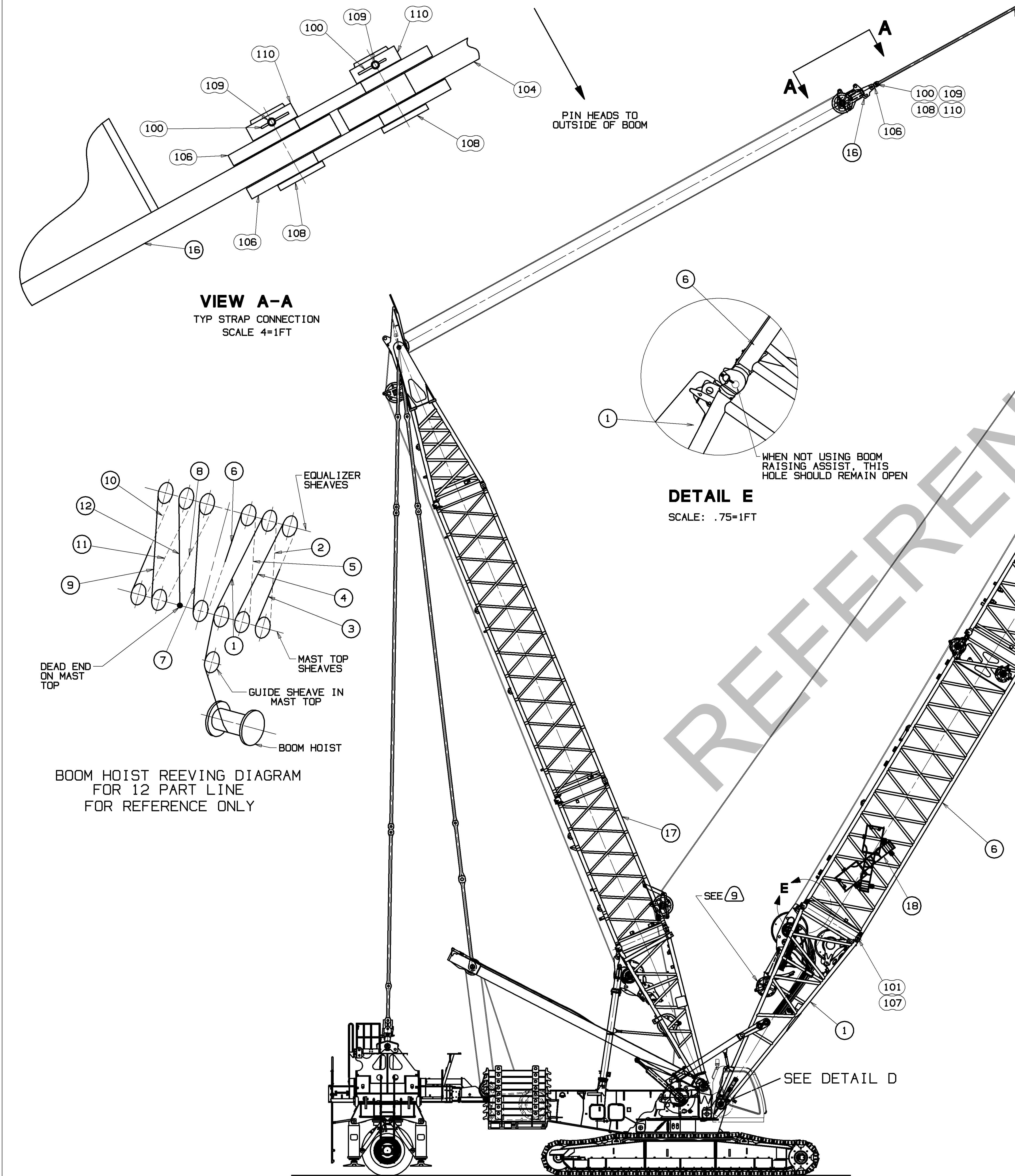
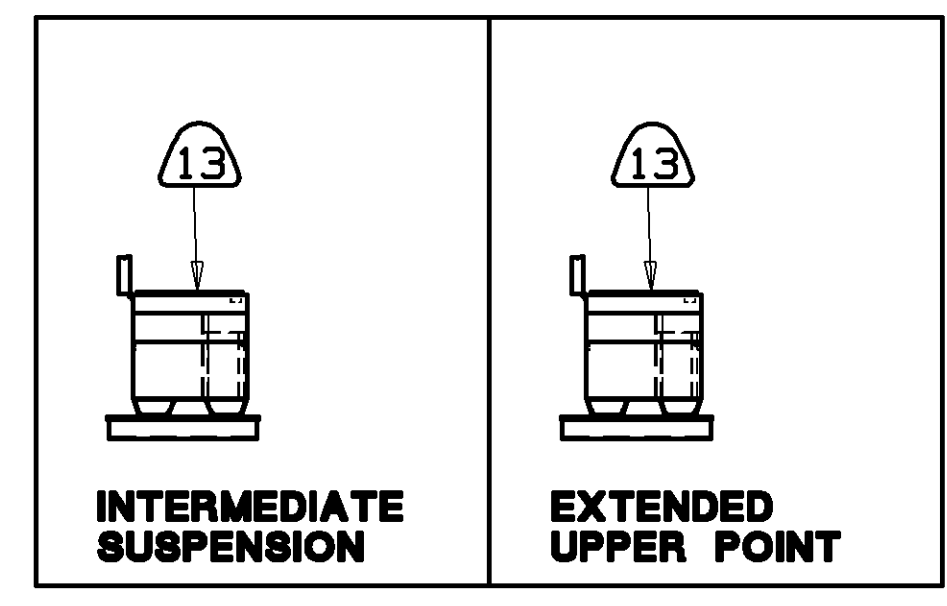


REQ'D. FOR VARIOUS BOOM LENGTHS														
ITEM NO.	102	103	105	104	106	107	101	108	110	109	100	R53	112	
BOOM LENGTH	INSERT 6 M (19.7 FT) ASSY SEE (6)	STRAP 6 M (19.7 FT)	INSERT 12 M (39.4 FT) ASSY SEE (11)	STRAP 12 M (39.4 FT)	LINK	PIN	PIN SAFETY	PIN	COLLAR	PIN	PIN COTTER	INTER- MEDIATE SUSPENSION SEE (13)	INSERT 12 M (39.4 FT) ASSY SEE (11)	
METERS														
FEET														
42	137.8	0	0	0	8	8	8	10	10	10	24	0	0	
48	157.5	1	2	0	12	10	10	14	14	14	32	0	0	
54	177.2	0	0	0	2	12	10	14	14	14	32	0	1	
60	196.9	1	2	0	2	16	12	18	18	18	40	0	1	
66	216.5	0	0	1	4	16	12	18	18	18	40	0	1	
72	236.2	1	2	1	4	20	14	22	22	22	48	0	1	
78	255.9	0	0	2	6	20	14	22	22	22	48	1	1	
84	275.6	1	2	2	6	24	16	26	26	26	56	1	1	
90	295.3	0	0	3	8	24	16	26	26	26	56	1	1	
96	315.0	1	2	3	8	28	18	30	30	30	64	1	1	
102	334.6	0	0	4	10	28	18	30	30	30	64	1	1	
108	354.3	1	2	4	10	32	20	34	34	34	72	1	1	
114	374.0	0	0	5	12	32	20	34	34	34	72	1	1	
120	393.7	1	2	5	12	36	22	38	38	38	80	1	1	

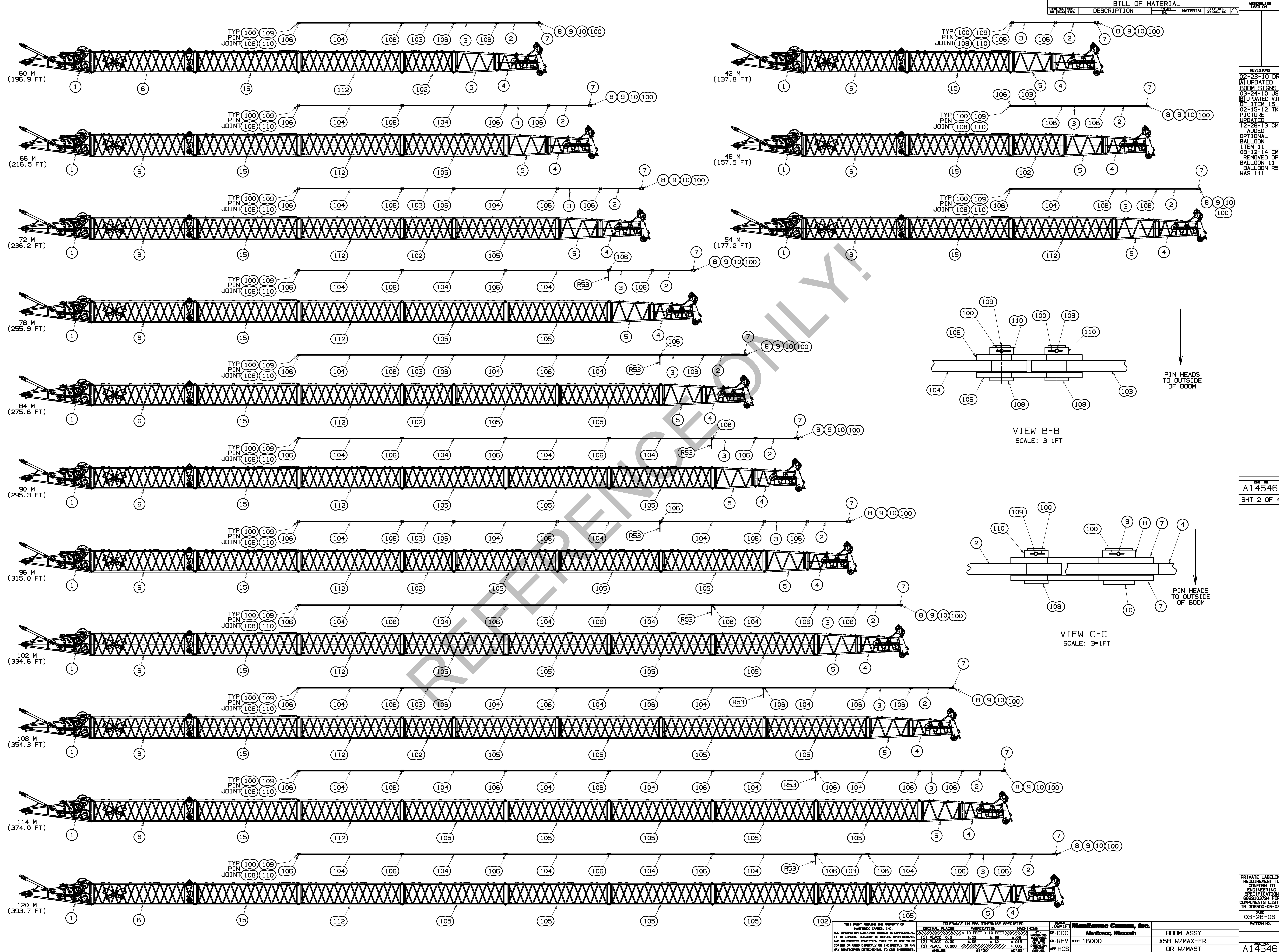


IDENTIFICATION TAGS.	
OBJECT NO.	ID TAGS
A10882	A10893 (OR) 81006893 (OR) 81017395
A11543	A11545 (OR) A17834 (OR) 81006890 (OR) 81017393
81011592	81011593 (OR) 81011594
81011915	A14545 (OR) A17836 (OR) 81006892 (OR) 81011916 (OR) 81011870
A11531	A11532 (OR) A17211 (OR) 81005679
A10789	A10791 (OR) A10790 (OR) A17189 (OR) 81005680
A11396	A11350 (OR) A11352 (OR) 81006897 (OR) 81005868
A11388	A11390 (OR) A11389 (OR) 81006895 (OR) 81005899

- (12) A14543 CAN BE USED IN PLACE OF 81011915.
- (13) ITEM 19 (PARTS BOX) CONTAINS PARTS OF ITEMS R53 (INT. SUSP), 250 (UPPER BOOM POINT), 300 (EXTENDED UPPER BOOM POINT) TO BE SHIPPED AS A LOOSE ITEM IN JOB BOX (81007957).



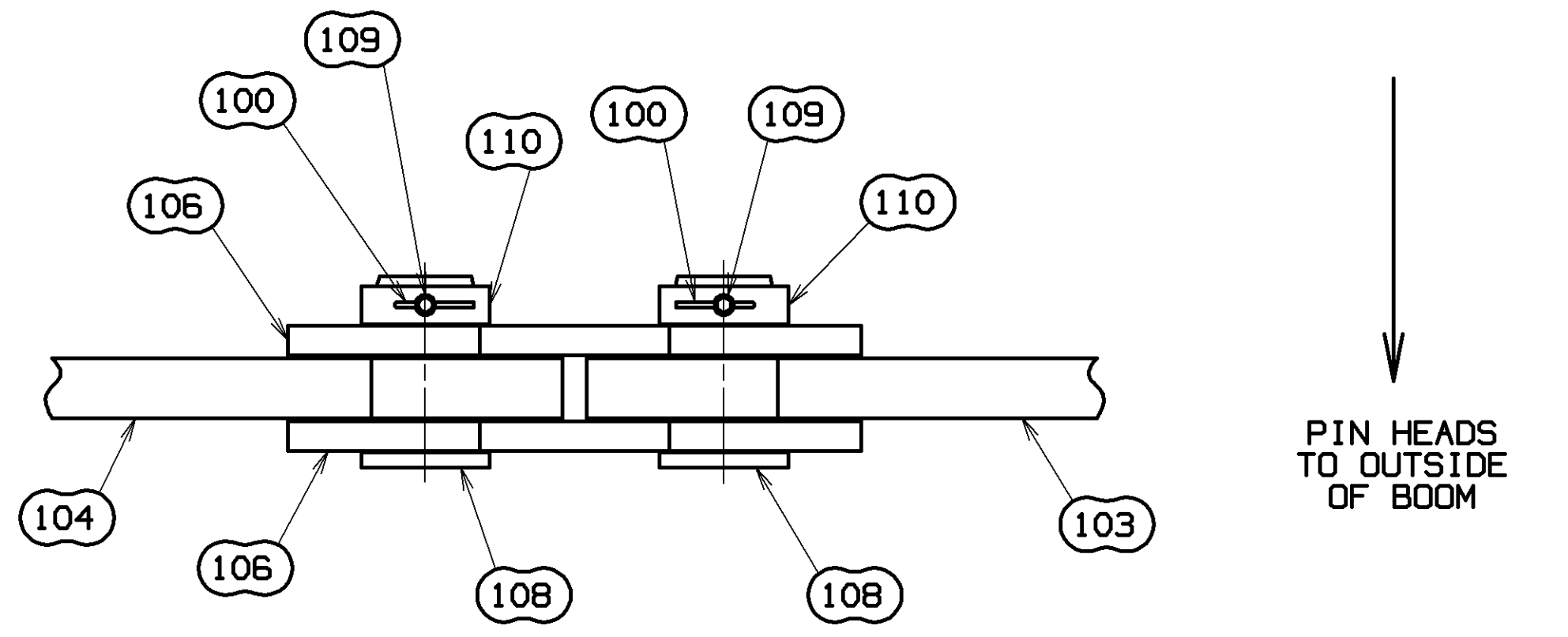
BILL OF MATERIAL				ASSEMBLED BY
QTY	DESC	UNIT	MATERIAL	QTY
BOOM ASSEMBLY #58 A14546				
1	BUTT ASSY #58 8.0 M		A10882	1
2	STRAP TOP #58 BOOM 40 X 83		A10917	1
3	STRAP 5 METER #58 BOOM 40 X 83		A10919	1
4	TOP ASSY #58 5.0 M		A11388	1
5	INSERT TRANSITION ASSY #58 5.0 M		A11396	1
6	INSERT 12.0 M ASSY #58 W/AUX SHEAVES		A11543	1
7	LINK #58 BOOM TOP		A11676	1
8	COLLAR 101 mm ID		A12945	1
9	PIN 2 HOLE 12.7 DIA X 128.0 LG		A12946	1
10	PIN 1 HOLE W/HD 100.0 DIA X 92.3 LG		A12944	1
11				
12				
13				
14				
15	INSERT 12M ASSY W/EQ RAILS #58		81011592	1
16	EQUALIZER ASSY		A14528	1
17	MAST ASSY 30M #59 MAST		A14503	1
18	BOOM ASSY #58 LADDER STORAGE		A13170	1
19	PARTS BOX PALLET ASSY BOOM		81034821	1
NO. REQ'D. FOR THE FOLLOWING ITEMS ARE IN TABLES				
100	PIN COTTER .188 X 1.50		562085	8
101	PIN SAFETY .234 OD X 5.00		563640	8
102	INSERT 6 M ASSY #58 (MEDIUM)		A10789	6
103	STRAP 6 METER #58 BOOM 40 X 83		A10918	1
104	STRAP 12 METER #58 BOOM 40 X 83		A10920	1
105	INSERT 12 M ASSY #58 (MEDIUM)		A11531	11
106	LINK #58 BOOM STRAP		A11539	8
107	PIN 1 HOLE W/HD 76.2 DIA X 160.4 LG		A13294	8
108	PIN 1 HOLE W/HD 65.0 DIA X 92.0 LG		A11798	8
109	PIN 2 HOLE 12.7 DIA X 93.0 LG		A11799	8
110	COLLAR 66.0 ID		A11800	8
112	INSERT 12M ASSY #58 BOOM (HEAVY)		81011915	1
113				
114				
OPTION 1: HOOK BLOCKS				
200				
201	HOOK & WEIGHT BALL ASSY 18 MT (20 US)		A13737	1
202	HOOK BLOCK ASSY 41 MT (45 US)		236503	4
203	HOOK BLOCK ASSY 226 MT (250 US)		A13155	1
204	HOOK BLOCK ASSY 100 MT (110 US)		A13154	1
205	HOOK BLOCK ASSY 408 MT (450 US)		A07752	1
206	HOOK BLOCK ASSY 317 MT (350 US)		A08833	1
207	BLOCK 226 METRIC TON DUPLEX HOOK		81015106	1
208				
209				
210	BLOCK 100 METRIC TON, 28 MM ROPE		A15927	1
211	HOOK BLOCK ASSY DUPLEX 180 MT (200 US)		A1007437	1
212	BLOCK 226 METRIC TON DUPLEX HOOK		81015106	1
213	BLOCK DUPLEX 100MTON 28MM 3 SHEAVE		81016675	1
OPTION 2: UPPER BOOM POINT (10/13)				
250	BOOM POINT UPPER ASSY		81034218	10
OPTION 3: EXTENDED UPPER BOOM POINT (10/13)				
300	BOOM POINT UPPER ASSY EXTENDED #58		A11993	1
301				
JOB BOX REFERENCE ITEMS (13)				
R50	2SHIM .119(IN.) THK		A13178	1
R51	2SHIM 6MM THK		A15521	1
R52	2SHIM .059(IN.) THK		A15522	1
A/R53	BOOM ASSY #58 INTERMEDIATE SUSPENSION		A15593	1
(1) NUMBER REQUIRED SHOWN IN TABLE: 78 M (255.9 FT), 84 M (275.6 FT), 90 M (295.3 FT), 96 M (315 FT), 102 M (334.6 FT), 108 M (354.3 FT), 114 M (374 FT), 120 M (393.7 FT) BOOM REQUIRES INTERMEDIATE SUSPENSION ITEM R53. (SEE SHT 2 AND 4)				
(2) MAXIMUM NUMBER OF 6 METER INSERTS = 1.				
(3) 6 METER INSERT MUST BE ADJACENT TO 12 METER INSERT W/EQUALIZER RAILS OR THE 12 METER HEAVY INSERT EXCEPT FOR 120 METER (393.7 FT) LENGTH. SEE SHEET 2 FOR SPECIFIC LOCATION FOR VARIOUS BOOM LENGTHS				
(4) USE FOR 2 PART LINE ON UPPER BOOM POINT. ALSO USED FOR MACHINE ASSEMBLY WITH 9.75 M (32 FT) LIVE MAST.				
(5) SEE SHEET 2 FOR BOOM MAKEUP.				
(6) SEE (2), (3) AND (11)				
(7) ALL JIB BACKSTAY STRAPS, LINKS AND PINS STOWED WITH INSERTS MUST BE REMOVED FOR USE WITH THIS ASSEMBLY.				
(8) ITEM 100, 101, 106, 107, 108, 109 AND 110 QUANTITIES INCLUDE ITEMS THAT ARE STOWED WHEN INTERMEDIATE SUSPENSION IS USED. (SEE SHT 4)				
(9) WIRE ROPE GUIDE IN BOOM BUTT MUST BE STOWED FOR USE WITH FIXED MAST.				
(10) BOOM POINT ASSEMBLY MUST BE REMOVED FROM BOOM TOP WHEN EXTENDED UPPER BOOM POINT IS USED. REFER TO EXTENDED UPPER BOOM POINT CAPACITY CHART FOR SPECIFIC BOOM COMBINATIONS AND CONDITIONS.				
PRIVATE LABELING REQUIREMENT TO CONFORM TO ENGINEERING SPECIFICATION 8629103794 FOR COMPONENTS LISTED IN 862901-06-026				
DATE 08-12-14				
PATTERN NO.				
BOOM				
ASSY #58 W/MAX-ER				
OR W/MAST				
A14546				
SHT 1 OF 4				



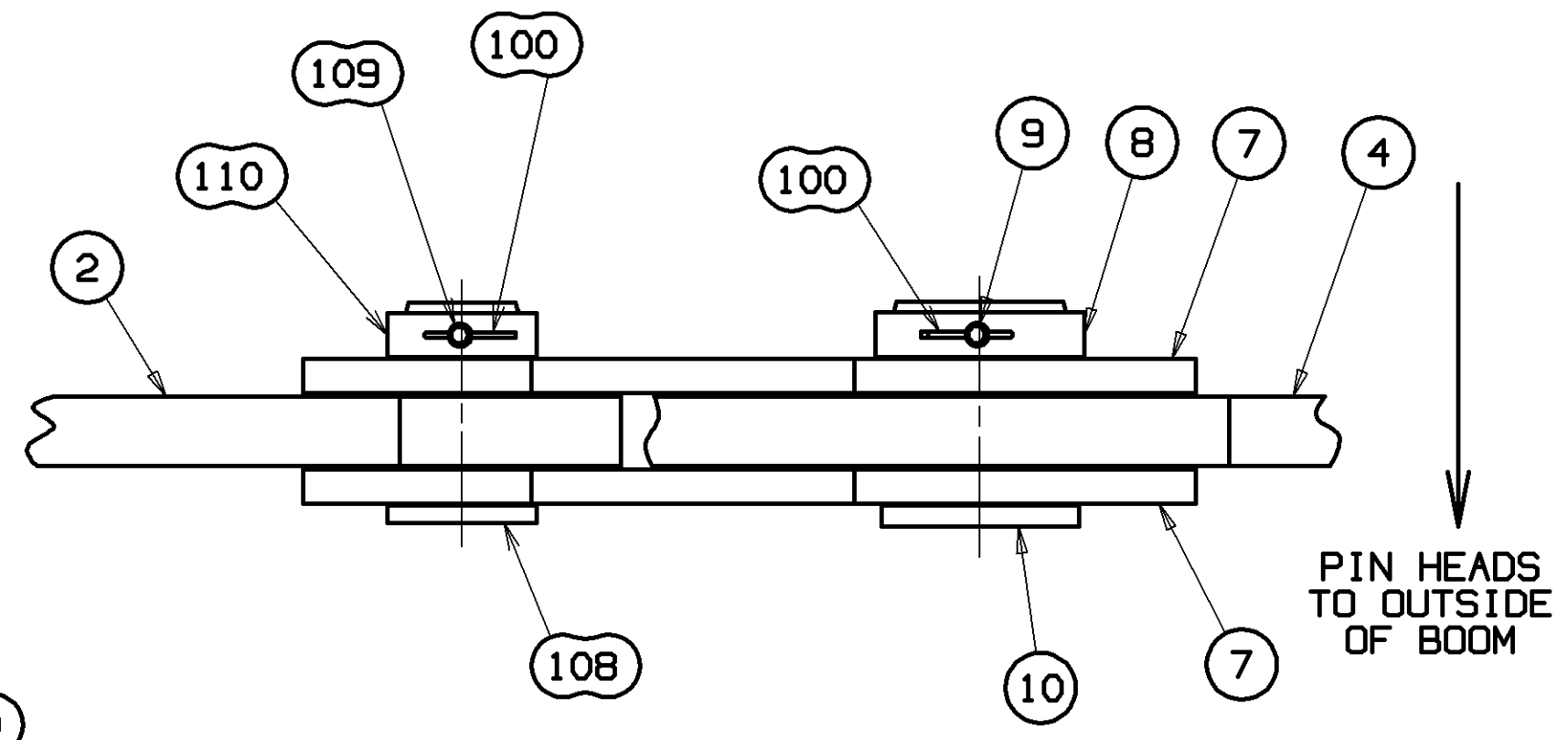
BILL OF MATERIAL			
QTY	UOM	DESCRIPTION	MATERIAL

ASSEMBLED USED IN

REVISIONS
02-23-10 DRC
03-24-10 JST
03-24-10 JST
02-15-12 TK
12-26-13 CMB
08-12-14 CMB
REMOVED OPT
BALLOON R53
WAS 111



VIEW B-B
SCALE: 3=1FT

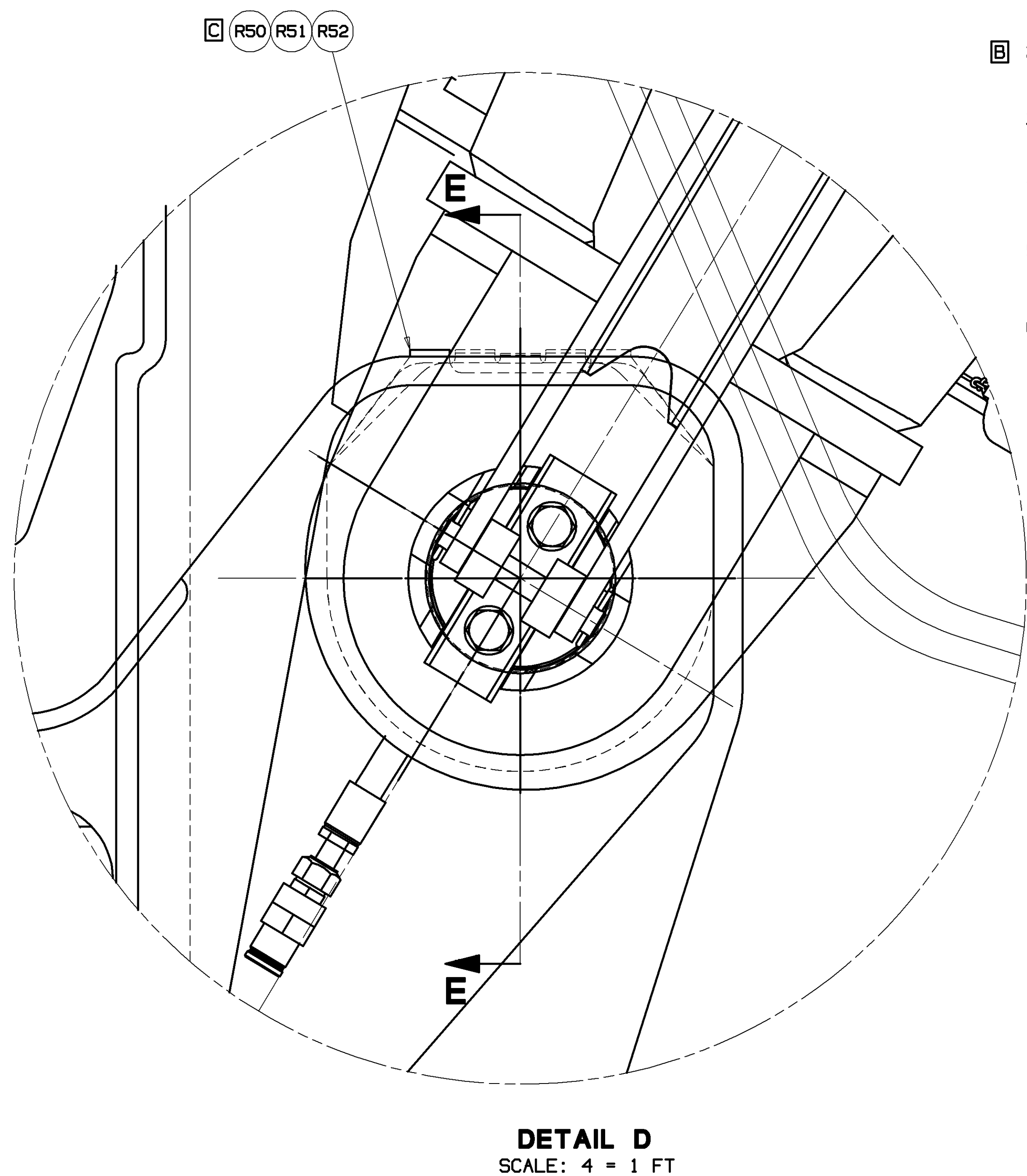
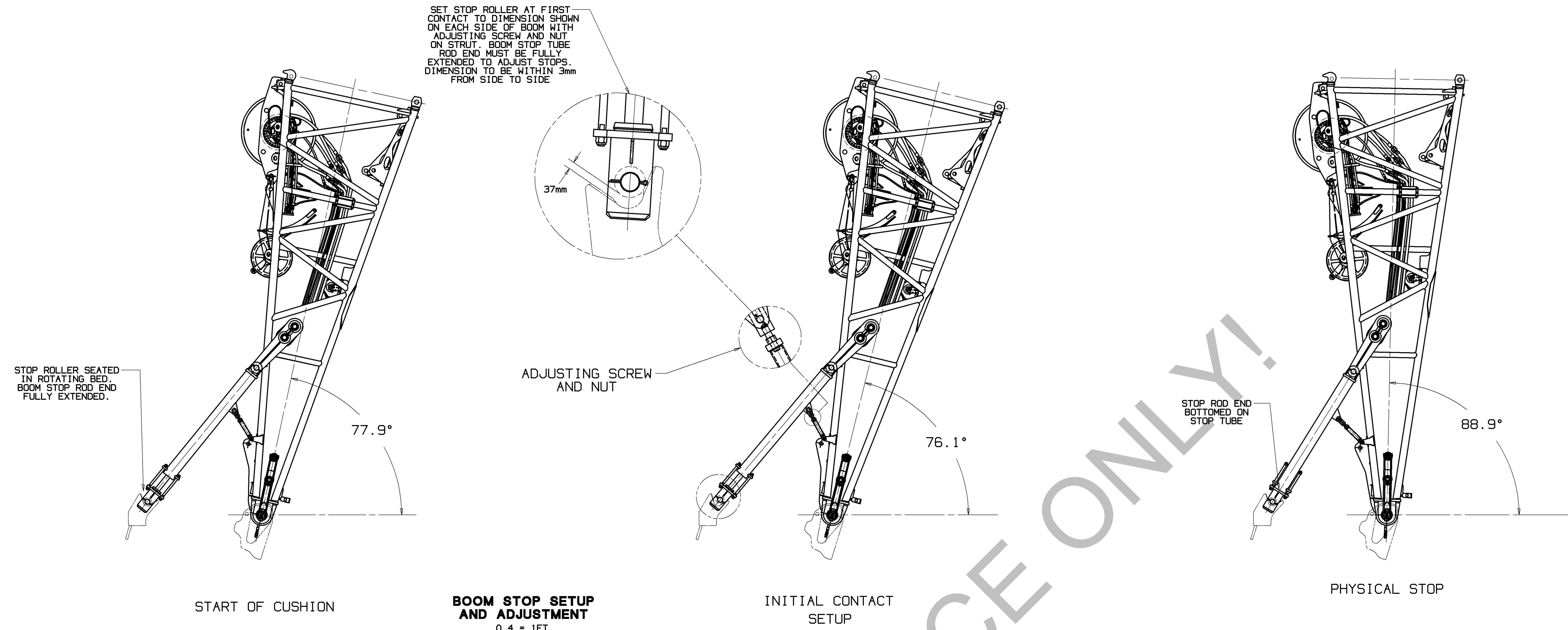


VIEW C-C
SCALE: 3=1FT

TOLERANCE UNLESS OTHERWISE SPECIFIED			
DECIMAL PLACES	FRACTIONS	INCHES	MILLIMETERS
(1) PLACE 0.00	1/16	0.005	0.125
(2) PLACE 0.00	1/32	0.005	0.125
(3) PLACE 0.000	1/64	0.005	0.125
ANGLES	11.25	0.005	0.125
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MANITOWOC CRANES, INC.		WISCONSIN	
MODEL 16000		BOOM ASSY	
APP HCS		#58 W/MAX-ER	
DATE 03-28-06		PATTERN NO.	
A14546		SHT 2 OF 4	

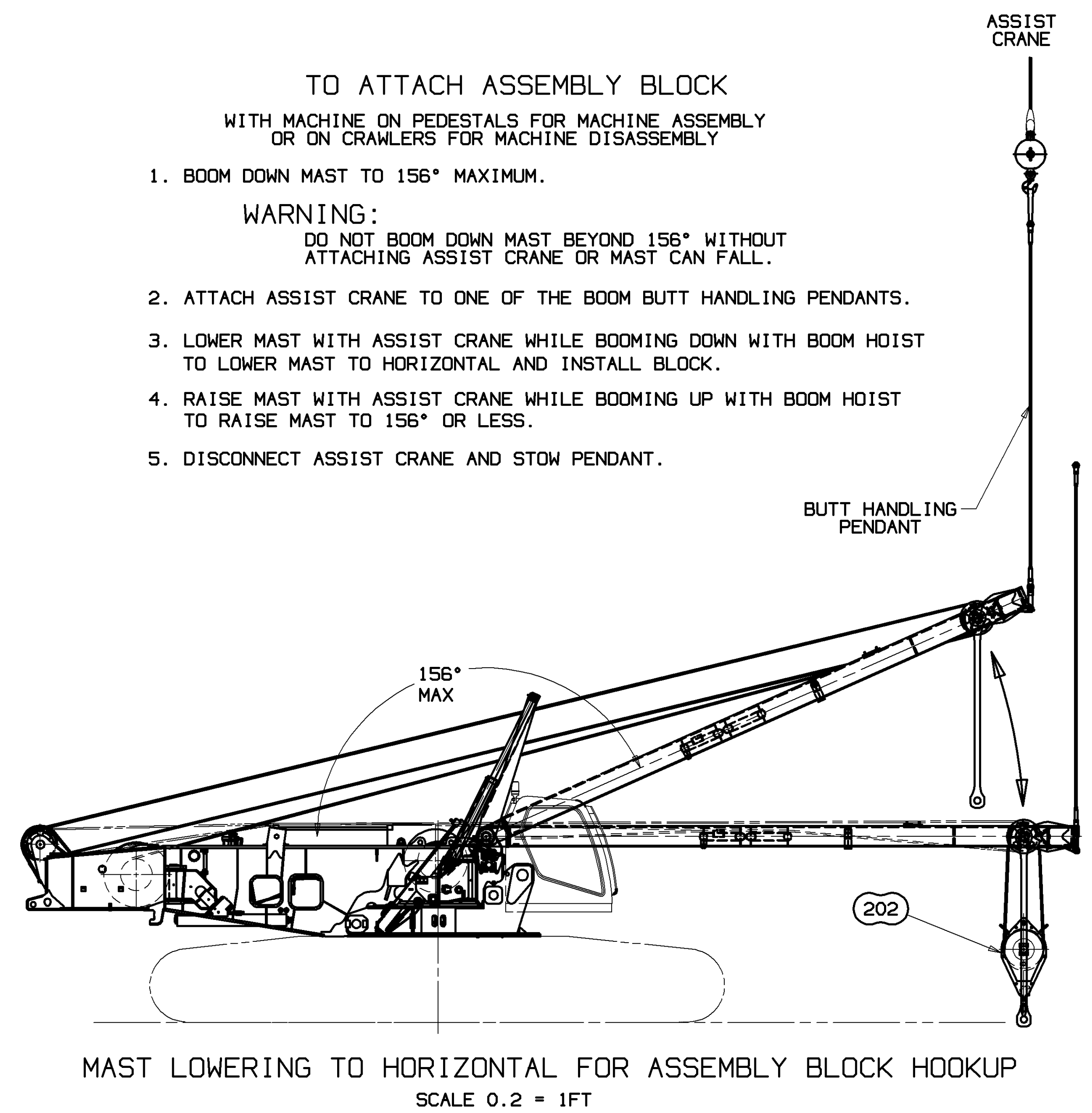
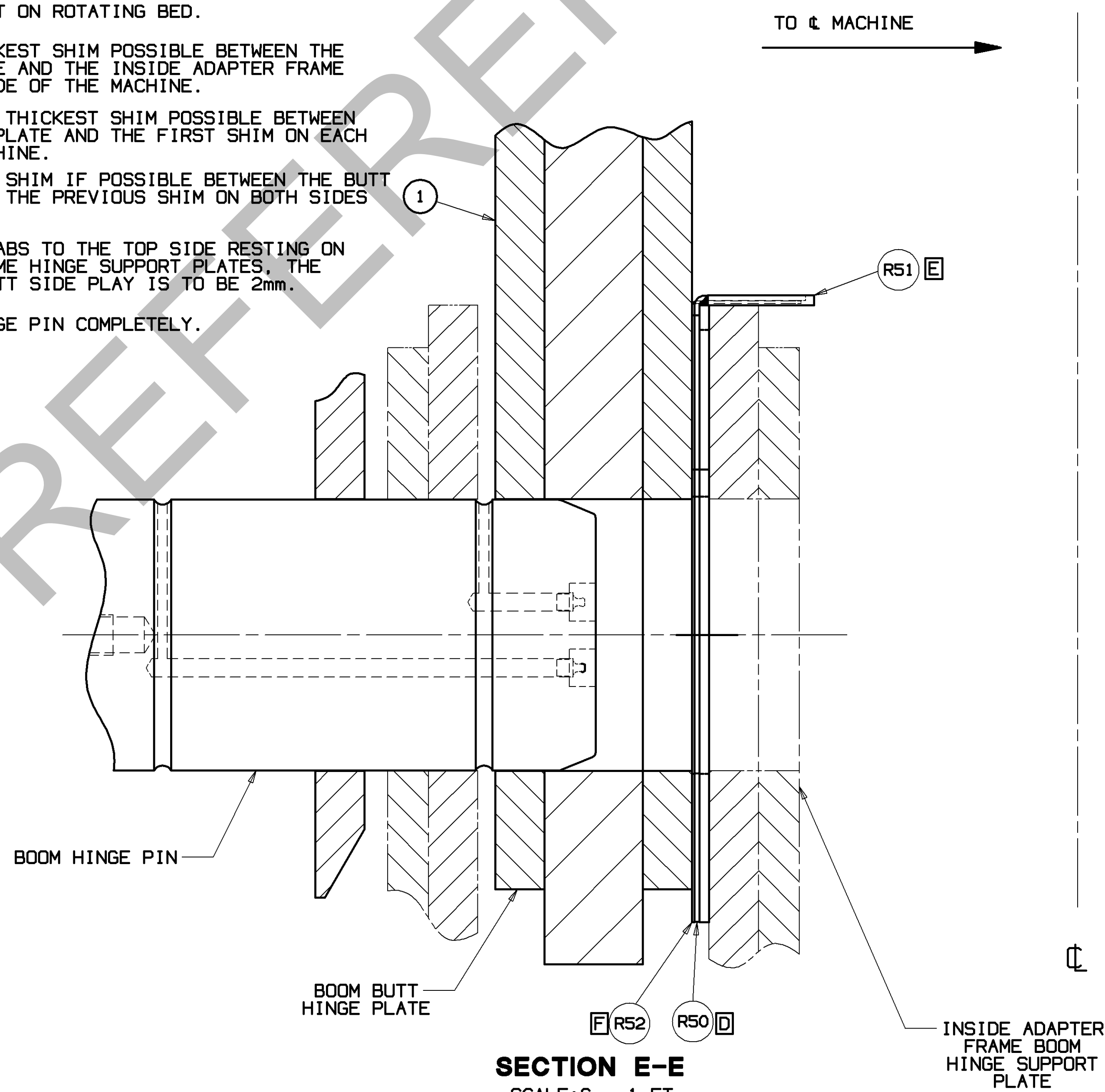
DO NOT SCALE THIS DRAWING

REVISIONS	
02-15-12 TK	PICTURE
04-22-13 RTS	VIEW
08-12-14 CMB	NOTE
12-12-14	WAS 12-14
13-12-14	WAS 13
14-12-14	WAS 14



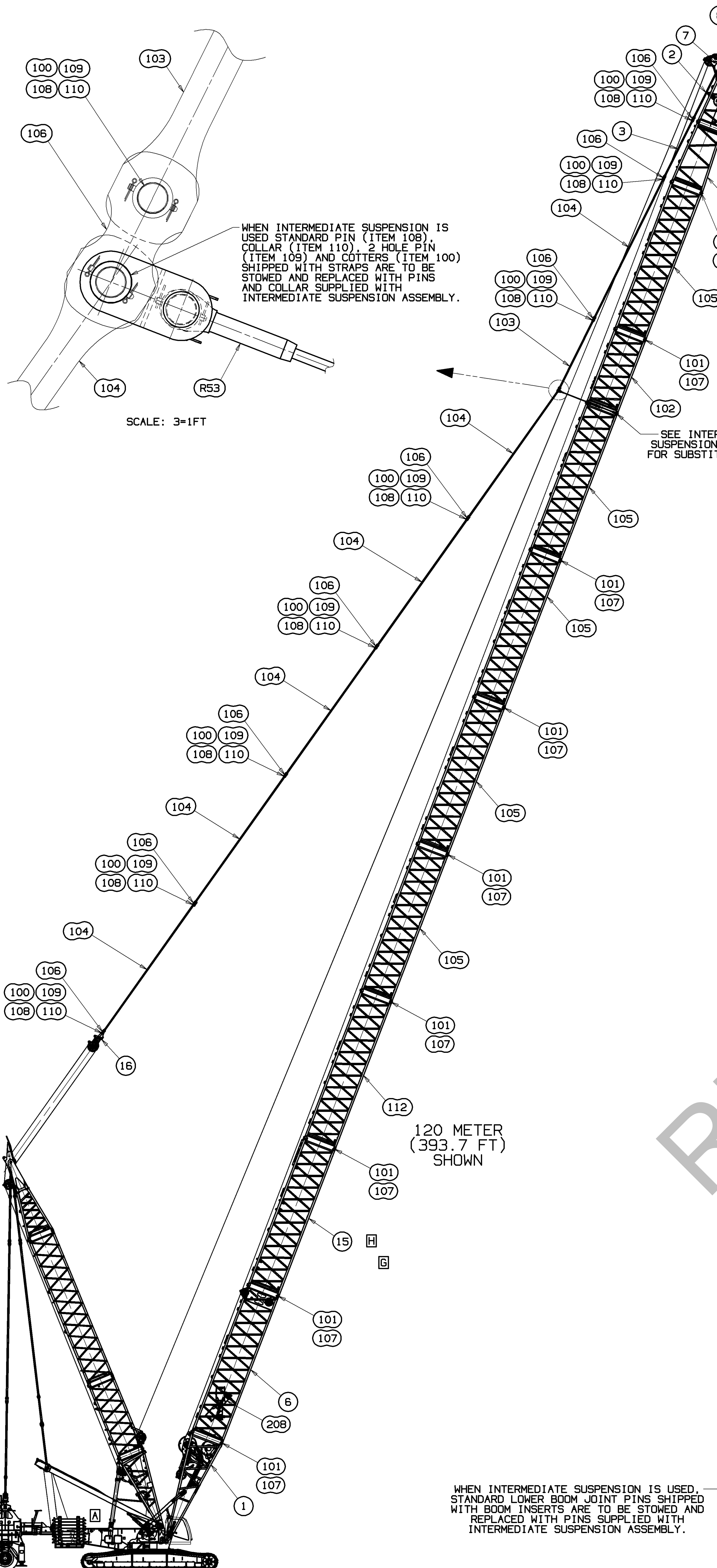
BOOM BUTT SHIM INSTALLATION PROCEDURE

1. CENTER BOOM BUTT ON ROTATING BED.
2. INSERT THE THICKEST SHIM POSSIBLE BETWEEN THE BUTT HINGE PLATE AND THE INSIDE ADAPTER FRAME LUGS ON EACH SIDE OF THE MACHINE.
3. INSERT THE NEXT THICKEST SHIM POSSIBLE BETWEEN THE BUTT HINGE PLATE AND THE FIRST SHIM ON EACH SIDE OF THE MACHINE.
4. INSERT THE LAST SHIM IF POSSIBLE BETWEEN THE BUTT HINGE PLATE AND THE PREVIOUS SHIM ON BOTH SIDES OF THE MACHINE.
5. WITH THE SHIM TABS TO THE TOP SIDE RESTING ON THE ADAPTER FRAME HINGE SUPPORT PLATES, THE MAXIMUM BOOM BUTT SIDE PLAY IS TO BE 2mm.
6. ENGAGE BOOM HINGE PIN COMPLETELY.



TOLERANCE UNLESS OTHERWISE SPECIFIED		MATERIAL		MANUFACTURE	
DECIMAL PLACES	FRACTIONS	DESCRIPTION	QUANTITY	DATE	BY
(1) PLACE 0.05	± .12	± .18	± .05	DATE	BY
(2) PLACE 0.00	± .06	± .12	± .015	DATE	BY
(3) PLACE 0.000	± .006	± .006	± .006	DATE	BY
ANGLES	± 1°	± 30°	± 30°	DATE	BY

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DATE 03-28-06	MODEL 16000	#58 W/MAX-ER
PATTERN NO.	APP HCS	OR W/MAST

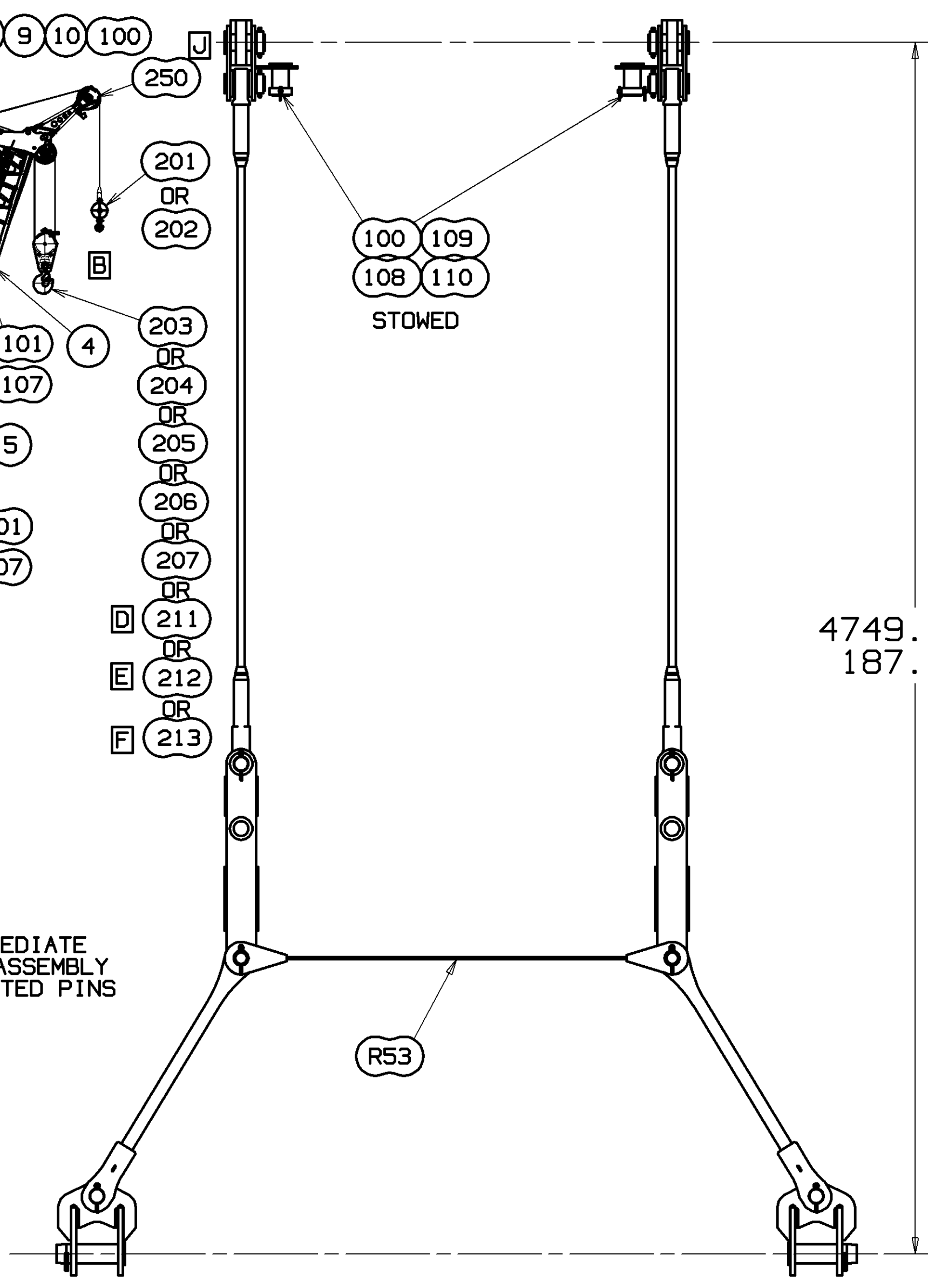


WHEN INTERMEDIATE SUSPENSION IS USED STANDARD PIN (ITEM 108), COLLAR (ITEM 110), 2 HOLE PIN (ITEM 109) AND COTTERS (ITEM 100) SHIPPED WITH STRAPS ARE TO BE STOWED AND REPLACED WITH PINS AND COLLAR SUPPLIED WITH INTERMEDIATE SUSPENSION ASSEMBLY.

SCALE: 3=1FT

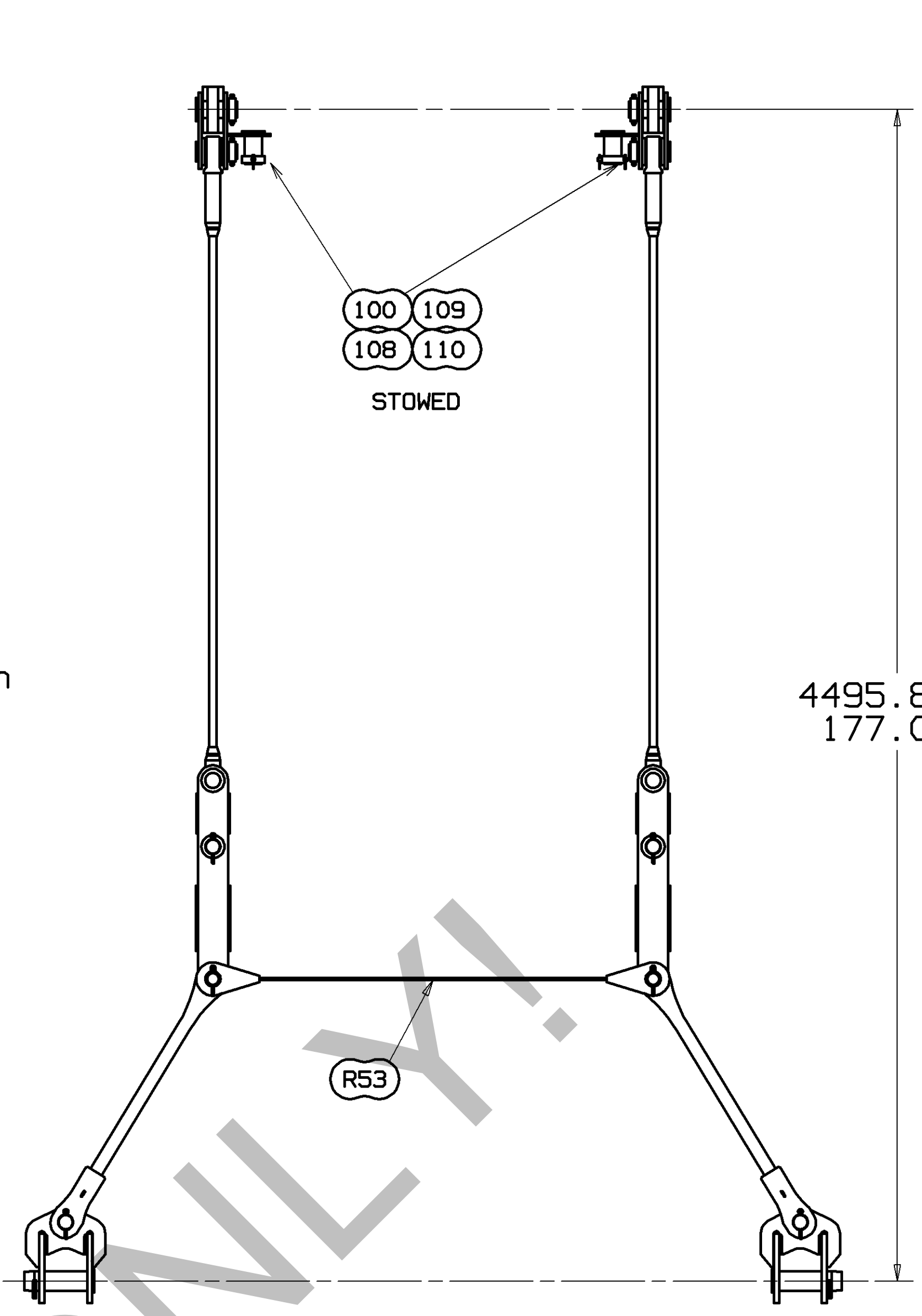
120 METER
(393.7 FT)
SHOWN

WHEN INTERMEDIATE SUSPENSION IS USED, STANDARD LOWER BOOM JOINT PINS SHIPPED WITH BOOM INSERTS ARE TO BE STOWED AND REPLACED WITH PINS SUPPLIED WITH INTERMEDIATE SUSPENSION ASSEMBLY.



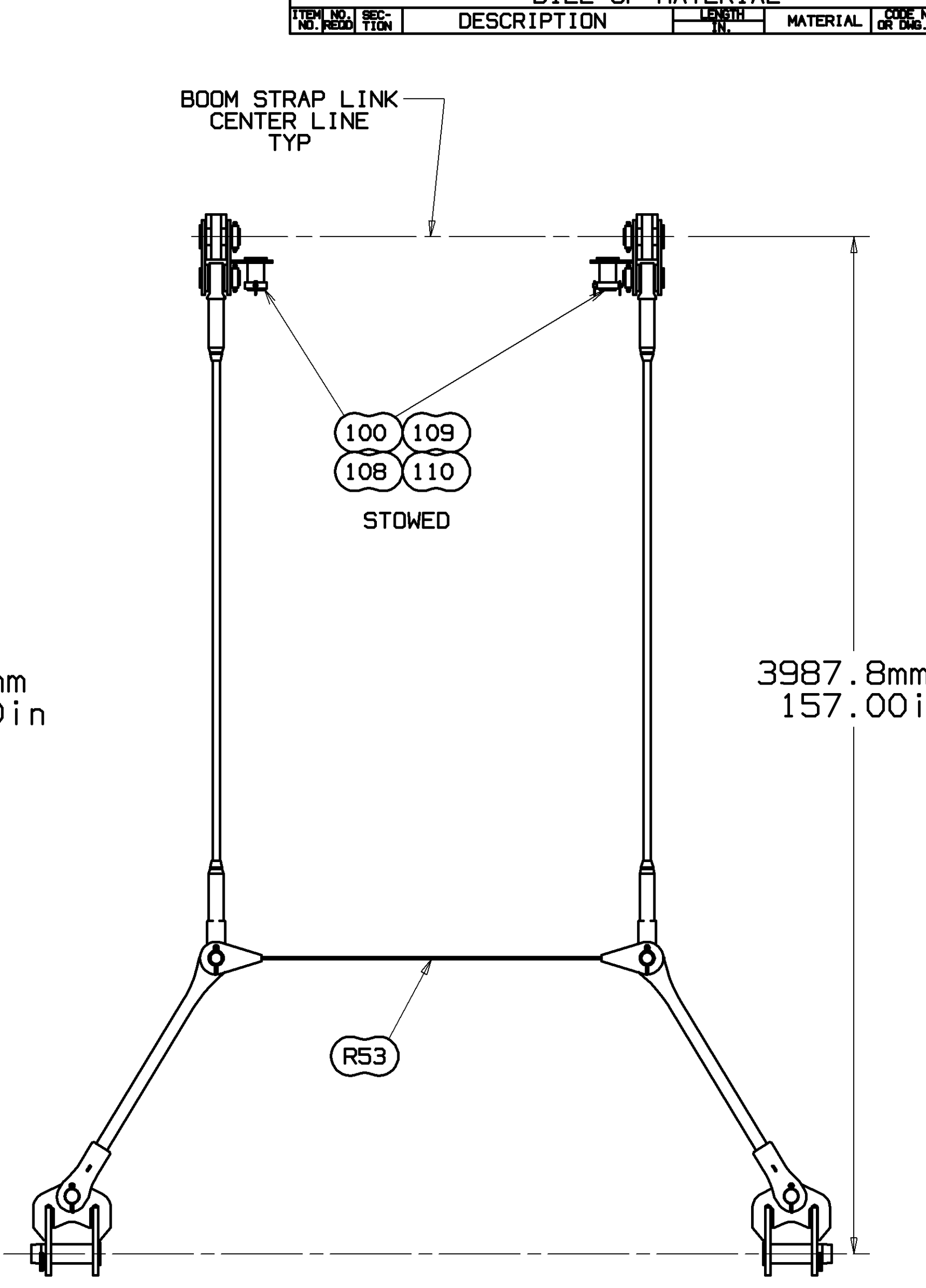
78 M & 120 M BOOM
(255.9 FT & 393.7 FT)
SCALE 0.75=1FT

4749.8mm
187.00in



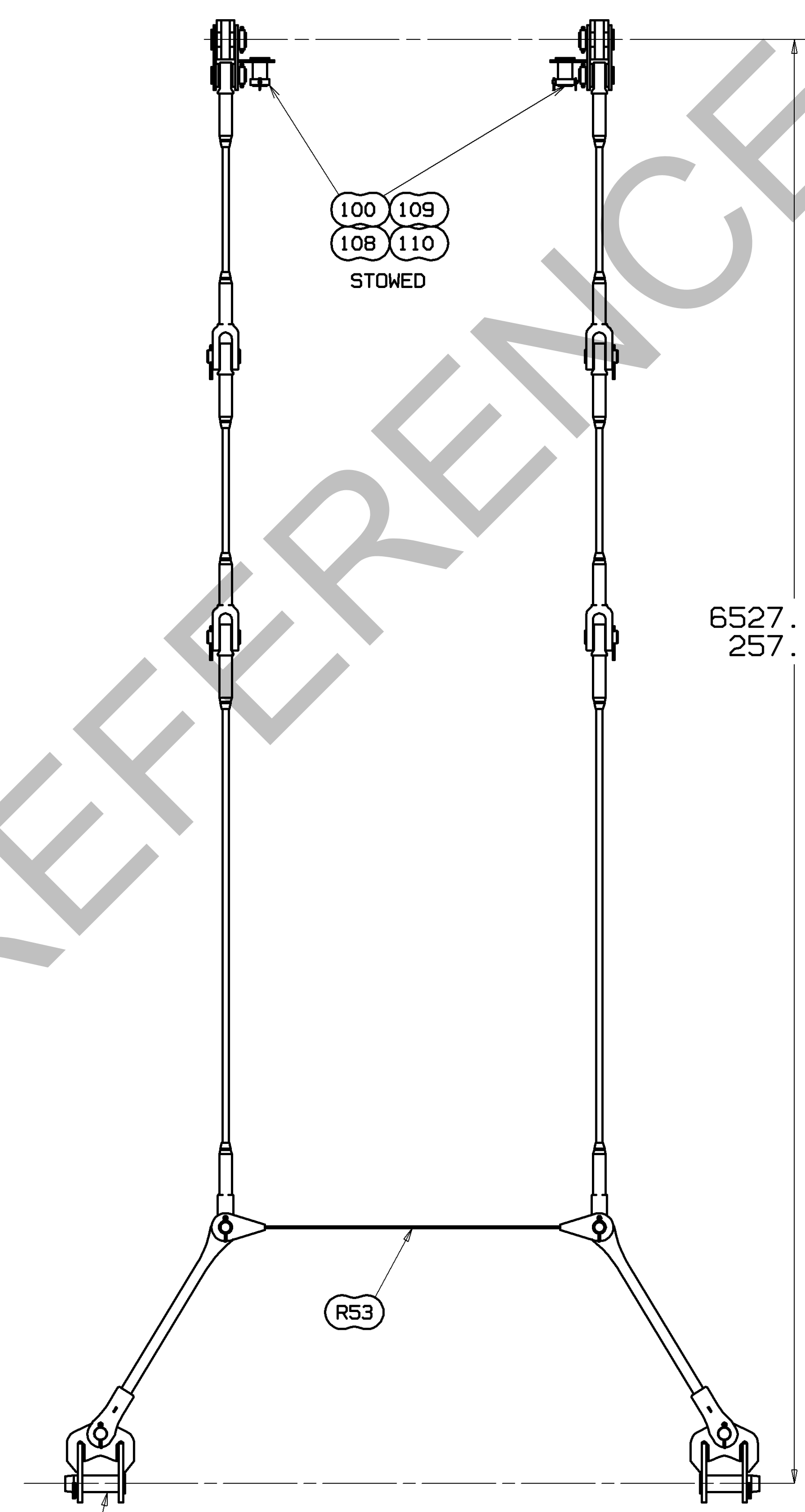
84 M & 114 M BOOM
(275.6 FT & 374.0 FT)
SCALE 0.75=1FT

4495.8mm
177.00in



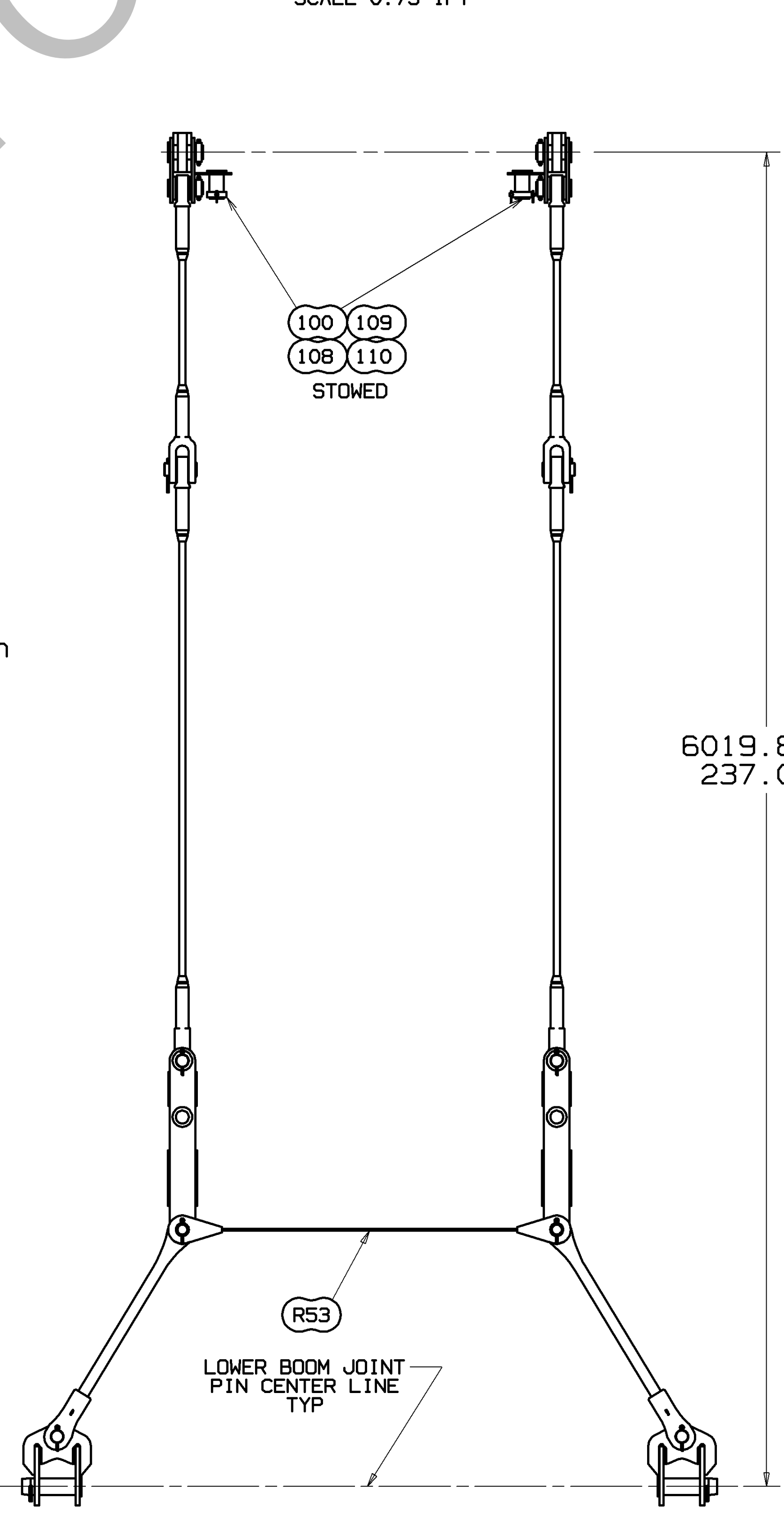
90 M BOOM
(295.3 FT)
SCALE 0.75=1FT

3987.8mm
157.00in



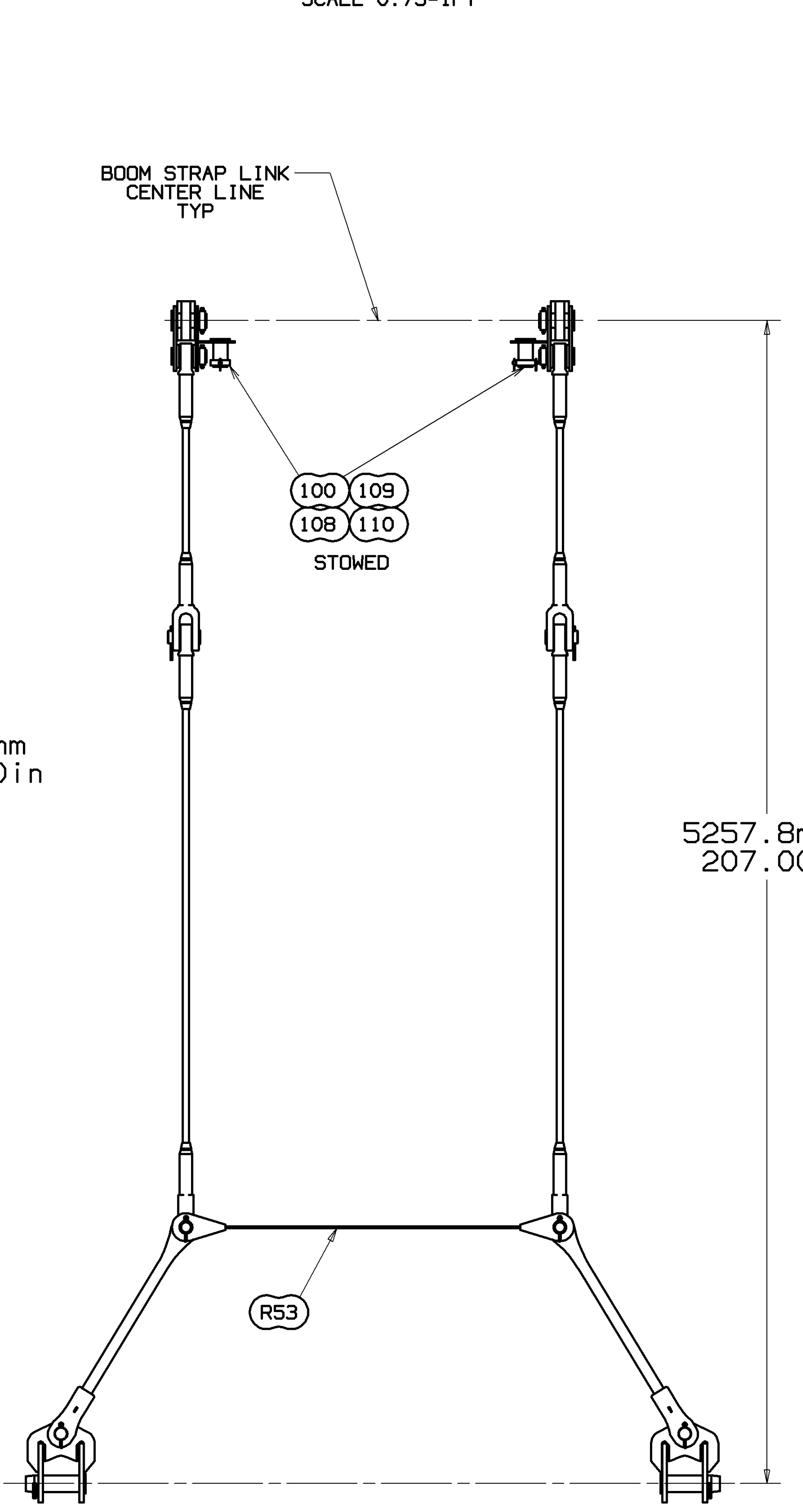
96 M BOOM
(315.0 FT)
SCALE 0.75=1FT

6527.8mm
257.00in



102 M BOOM
(334.6 FT)
SCALE 0.75=1FT

6019.8mm
237.00in



108 M BOOM
(354.3 FT)
SCALE 0.75=1FT

5257.8mm
207.00in

SEE BOOM MAKEUP VIEWS ON SHEET 2 FOR INTERMEDIATE SUSPENSION (ITEM R53) LOCATIONS FOR VARIOUS BOOM LENGTHS

BILL OF MATERIAL				ASSEMBLY USED IN
ITEM NO.	DESCRIPTION	QUANTITY	MATERIAL	DATE
REVISIONS				
10-23-06	JRR			
A	CORRECTED MACHINE CUTTING			
02-23-10	DRC			
B	UPDATED BOOM SIGN			
03-24-10	JST			
C	UPDATED VIEW OF ITEM 15			
D	ADDED ITEM			
E	ADDED ITEM			
F	ADDED ITEM			
G	ADDED ITEM			
08-12-14	CMB			
H	DELETED BALLOON 11			
I	WAS 200 BALLOON			
R53	WAS 111			
ITEM NO. A14546				
SHT 4 OF 4				
PRIVATE LABELING REQUIREMENT TO CONFORM TO ENGINEERING SPECIFICATION 6829103794 FOR COMPONENTS LISTED IN 68290-06-026				
DATE 03-28-06				
PATTERN NO.				
TOLERANCE UNLESS OTHERWISE SPECIFIED				
DECIMAL PLACES	FABRICATION	MACHINING	WELDING	WELDING
(1) PLACE 0.5	±.12	±.18	±.05	±.05
(2) PLACE 0.00	±.06	±.12	±.015	±.015
(3) PLACE 0.000	±.006	±.006	±.006	±.006
ANGLES	±1°30'	±1°30'	±1°30'	±1°30'
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MANITOWOC CRANES, INC. Manitowoc, Wisconsin				
BOOM ASSY				
#58 W/MAX-ER				
OR W/MAST				
A14546				
SHT 4 OF 4				