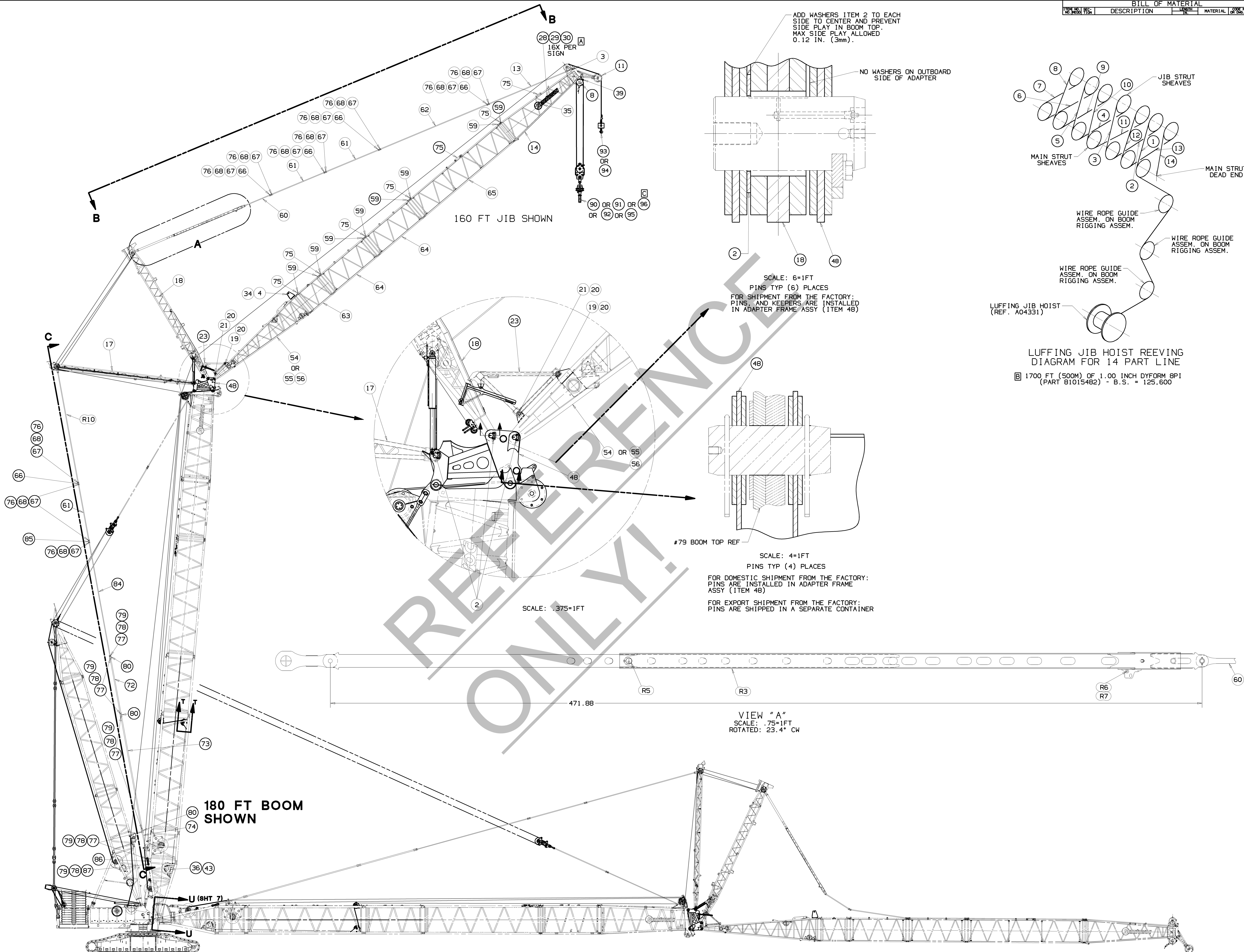




BILL OF MATERIAL				
ITEM NO.	ITEM	DESCRIPTION	QUANTITY	UNIT

REVISIONS
01-26-10 A1 ADDED ITEMS 28, 29 AND 30 UPDATED BOOM AND LUFFING JIB SIGNS
01-26-11 MER B1 REVISED NOTE
03-31-11 DJS C1 ADDED ITEM 96

ENG. NO.
A07766
SHT 1 OF 8

SUPERSEDES A07766 SHT 1 OF 7 OF 01-30-07		Manitowoc Cranes, Inc.	
DR. JAS	MODEL 18000	JIB LUFFING ASSEMBLY	
CK. JAS		#44 LUFFING JIB	
APP. PMP		#55/79A BOOM W/100 FT MAST	

PRIVATE LABELING
REQUIREMENT TO
CONFORM TO
ENGINEERING
SPECIFICATION
6829103794 FOR
COMPONENTS LISTED
IN 6829103794

DATE
10-01-09

PATTERN NO.

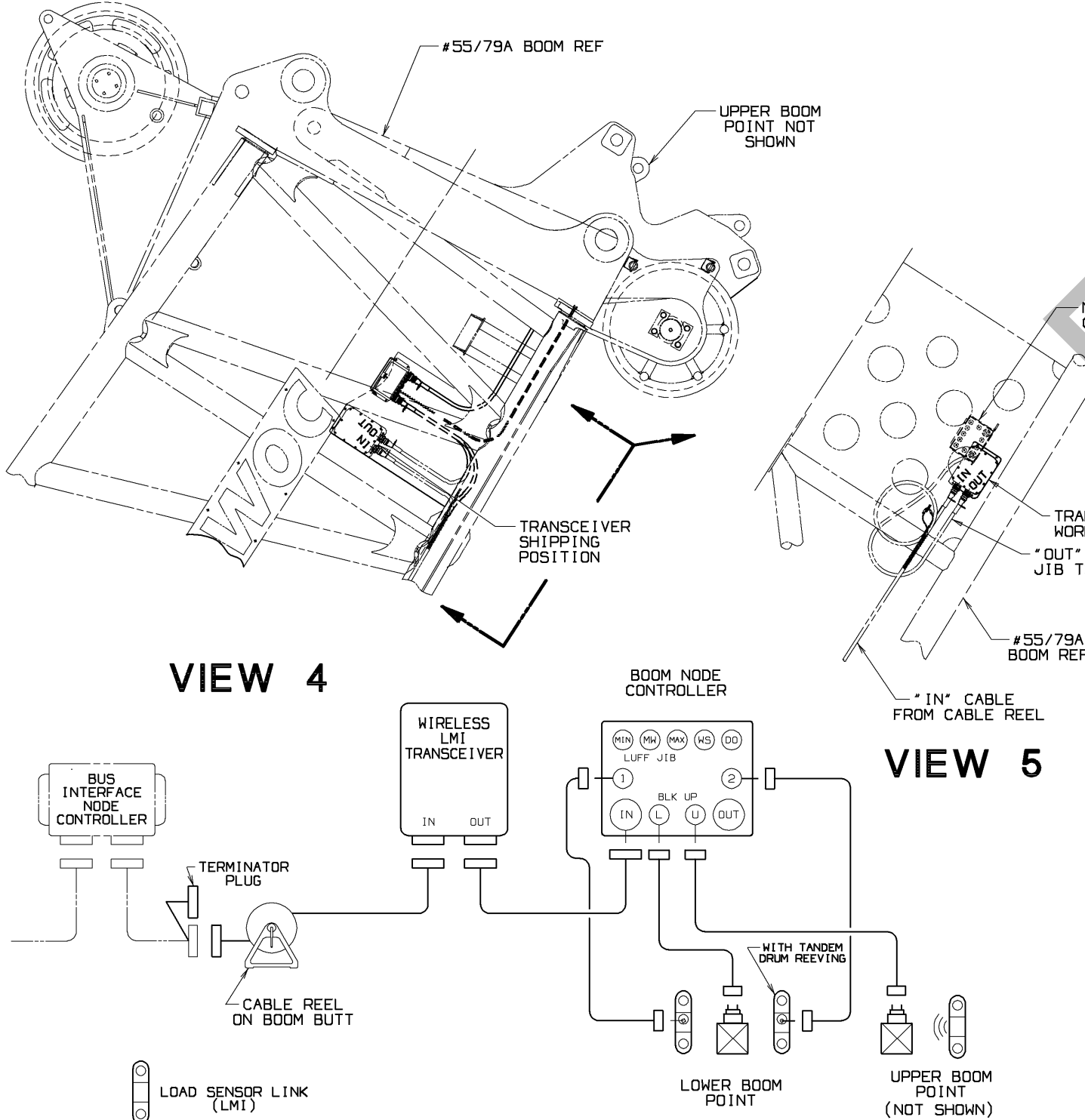
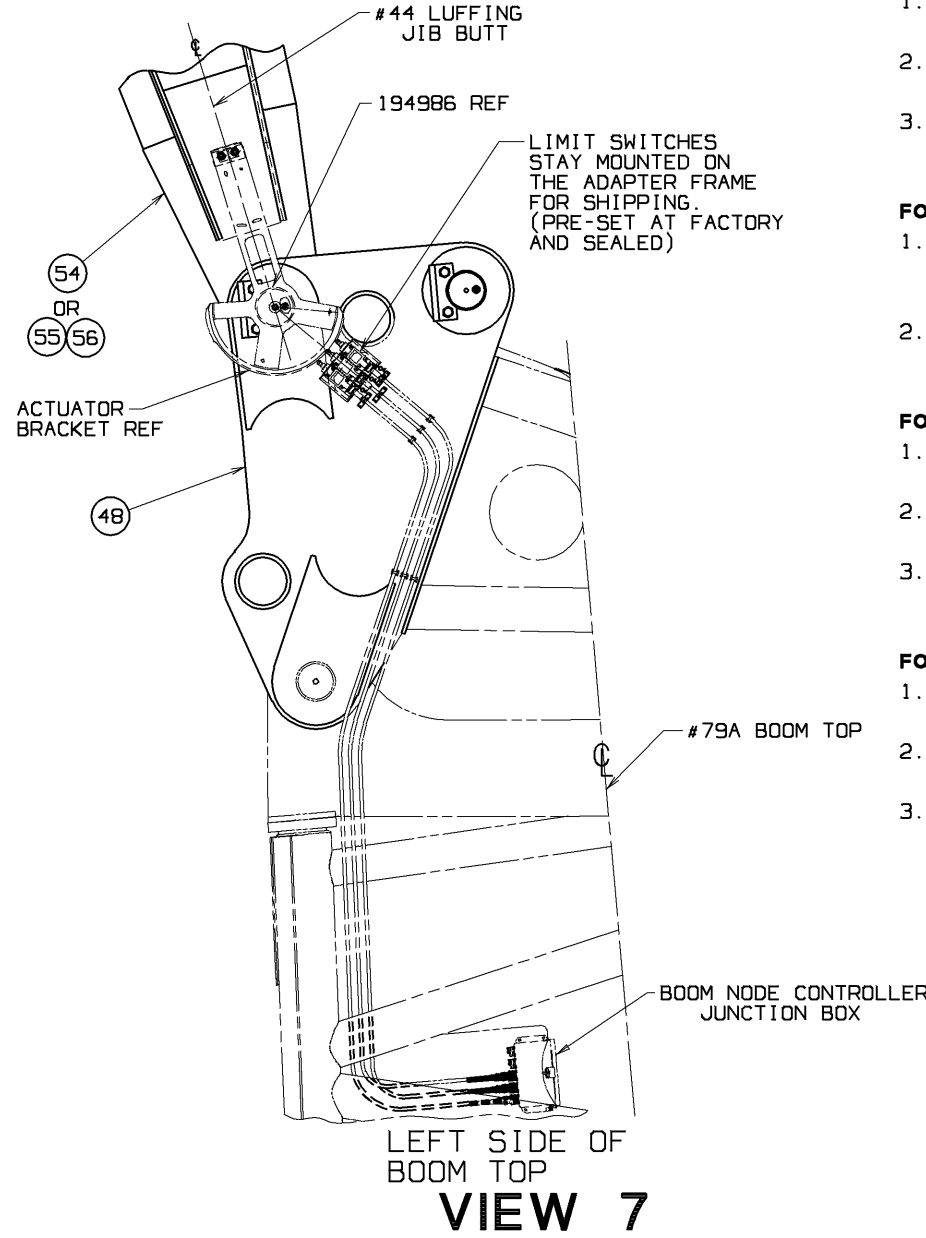
ENG. NO.
A07766

SHT 1 OF 8

LUFFING JIB LIMIT SHIPPING/WORKING INSTRUCTIONS TRANSCEIVER SHIPPING/WORKING INSTRUCTIONS

FOR OPERATION WITH #44 LUFFING JIB ON #55/79A BOOM:
1. MOUNT ACTUATOR BRACKET TO ADAPTER FRAME PIN 194986 AND LUFFING JIB BUTT AS SHOWN IN VIEW 7
2. CONNECT ELECTRIC CABLES BETWEEN BOOM AND LUFFING JIB POINTS AS SHOWN IN WIRING DIAGRAM VIEW 2

FOR SHIPPING #44 LUFFING JIB WITH #55/79A BOOM:
1. REMOVE ACTUATOR BRACKET AND ELECTRICAL CABLES FROM LIMIT SWITCHES. THESE ITEMS MAY BE STORED IN THE LUFFING JIB PARTS BOX FOR SHIPPING.
2. LIMIT SWITCHES STAY ON THE ADAPTER FRAME ASSEMBLY.



WIRING INTERCONNECT DIAGRAM
#55, #55A, OR #79A BOOM TOP WITH (UPPER BOOM POINT - NOT SHOWN)

VIEW 6

ONLY ONE TRANSCEIVER PROVIDED WITH EACH 18000

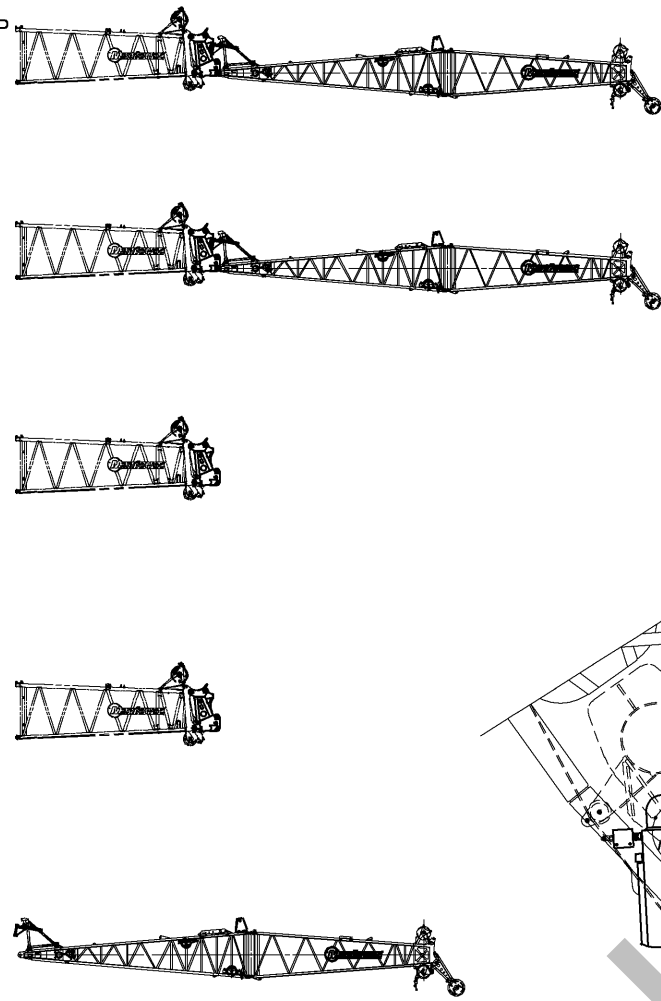
FOR OPERATION OF #44 LUFFING JIB WITH #55/79A BOOM:
1. MOUNT TRANSCEIVER ON UNDERSIDE OF LUFFING JIB TOP AS SHOWN IN VIEW 1
2. CONNECT ELECTRIC CABLES BETWEEN BOOM AND LUFFING JIB POINTS AS SHOWN IN WIRING DIAGRAM VIEW 2

FOR SHIPPING OF #44 LUFFING JIB WITH #55/79A BOOM:
1. MOUNT TRANSCEIVER ON STORAGE BRACKET IN LUFFING JIB TOP SHOWN IN VIEW 3
2. COIL CABLE FROM TRANSCEIVER 'IN' CONNECTOR ON CABLE REEL.
3. CABLE FROM TRANSCEIVER 'OUT' CONNECTOR CAN REMAIN CONNECTED TO LUFFING JIB NODE.

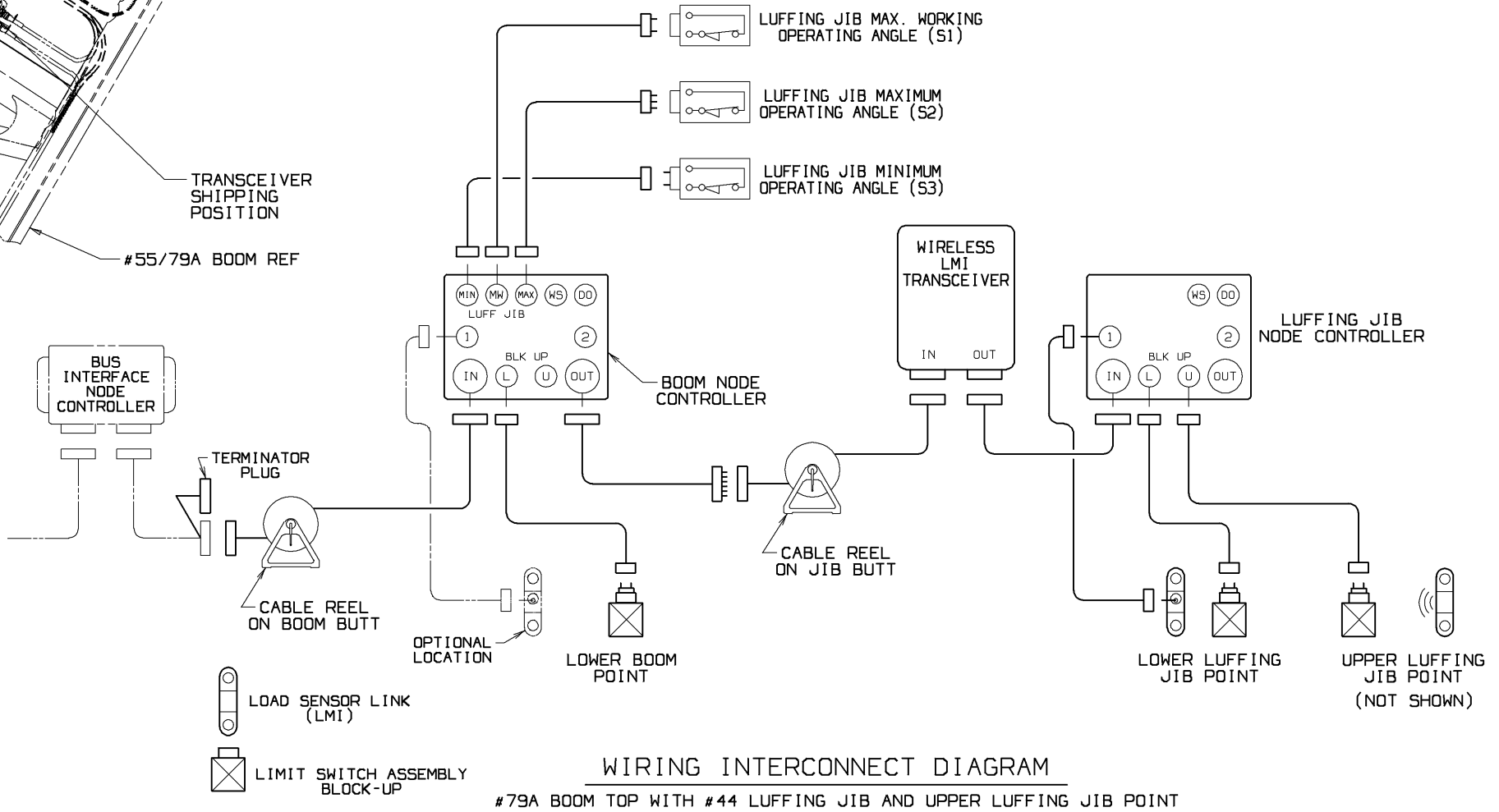
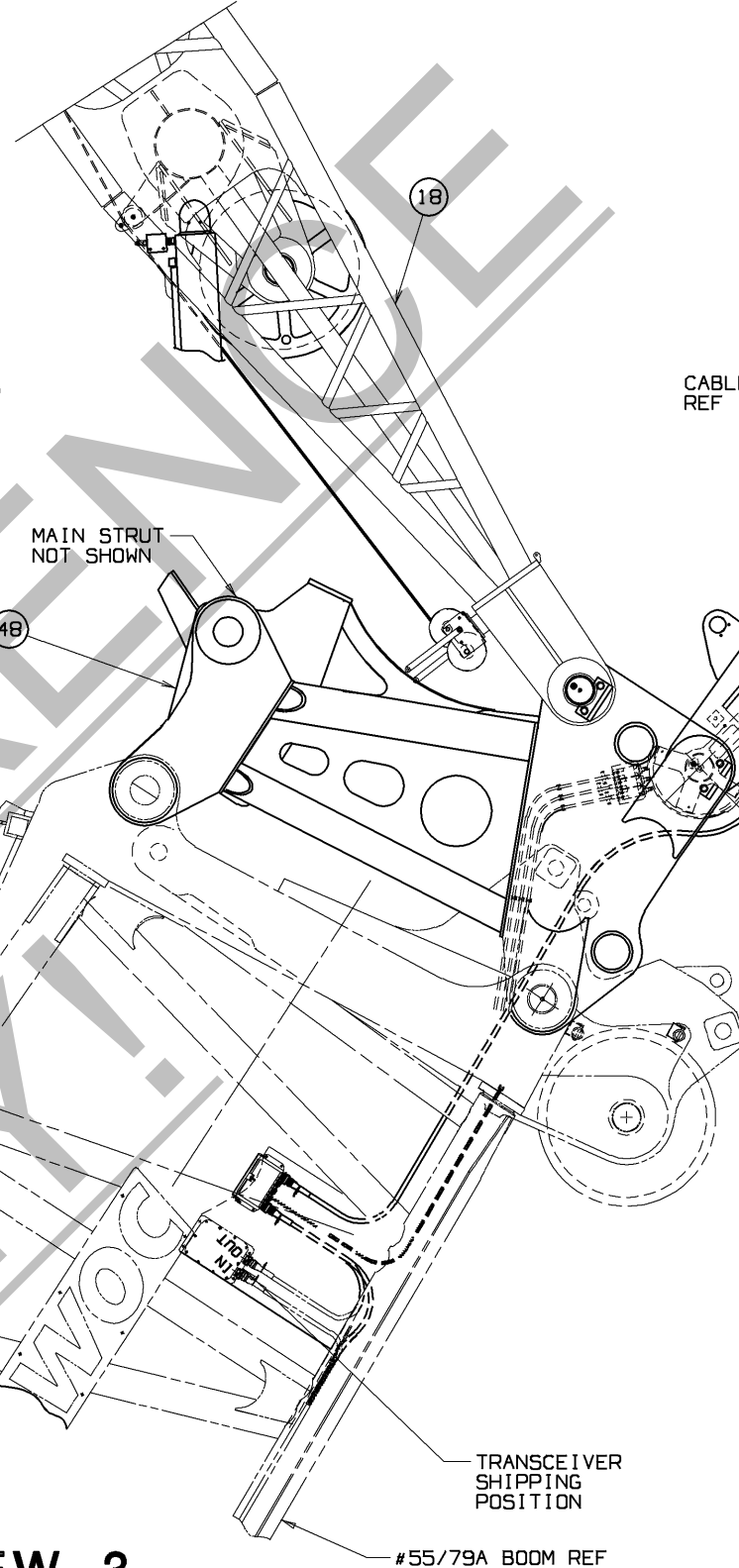
FOR OPERATION WITHOUT #44 LUFFING JIB
1. REMOVE TRANSCEIVER FROM LUFFING JIB TOP AND INSTALL ON UNDERSIDE OF #79A BOOM TOP AS SHOWN IN VIEW 5.
2. CONNECT ELECTRIC CABLES IN BOOM POINT AS SHOWN IN WIRING DIAGRAM, VIEW 6

FOR SHIPPING #55/79A BOOM WITHOUT #44 LUFFING JIB
1. MOUNT TRANSCEIVER ON STORAGE BRACKET ON BOOM TOP AS SHOWN IN VIEW 4.
2. COIL CABLE FROM TRANSCEIVER 'IN' CONNECTOR ON CABLE REEL.
3. CABLE FROM TRANSCEIVER 'OUT' CONNECTOR CAN REMAIN CONNECTED TO LUFFING JIB NODE.

FOR SHIPPING #44 LUFFING JIB WITHOUT #55/79A BOOM:
1. MOUNT TRANSCEIVER ON STORAGE BRACKET IN LUFFING JIB TOP SHOWN IN VIEW 3
2. COIL CABLE FROM TRANSCEIVER 'IN' CONNECTOR ON CABLE REEL.
3. CABLE FROM TRANSCEIVER 'OUT' CONNECTOR CAN REMAIN CONNECTED TO LUFFING JIB NODE.



VIEW 3

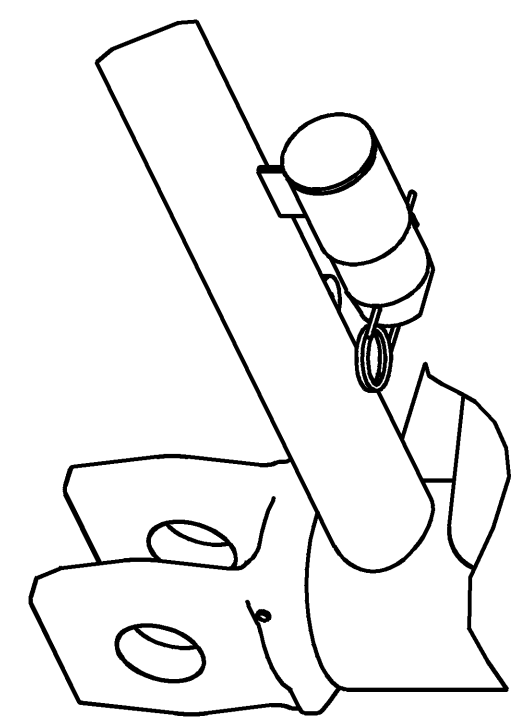


WIRING INTERCONNECT DIAGRAM
#79A BOOM TOP WITH #44 LUFFING JIB AND UPPER LUFFING JIB POINT

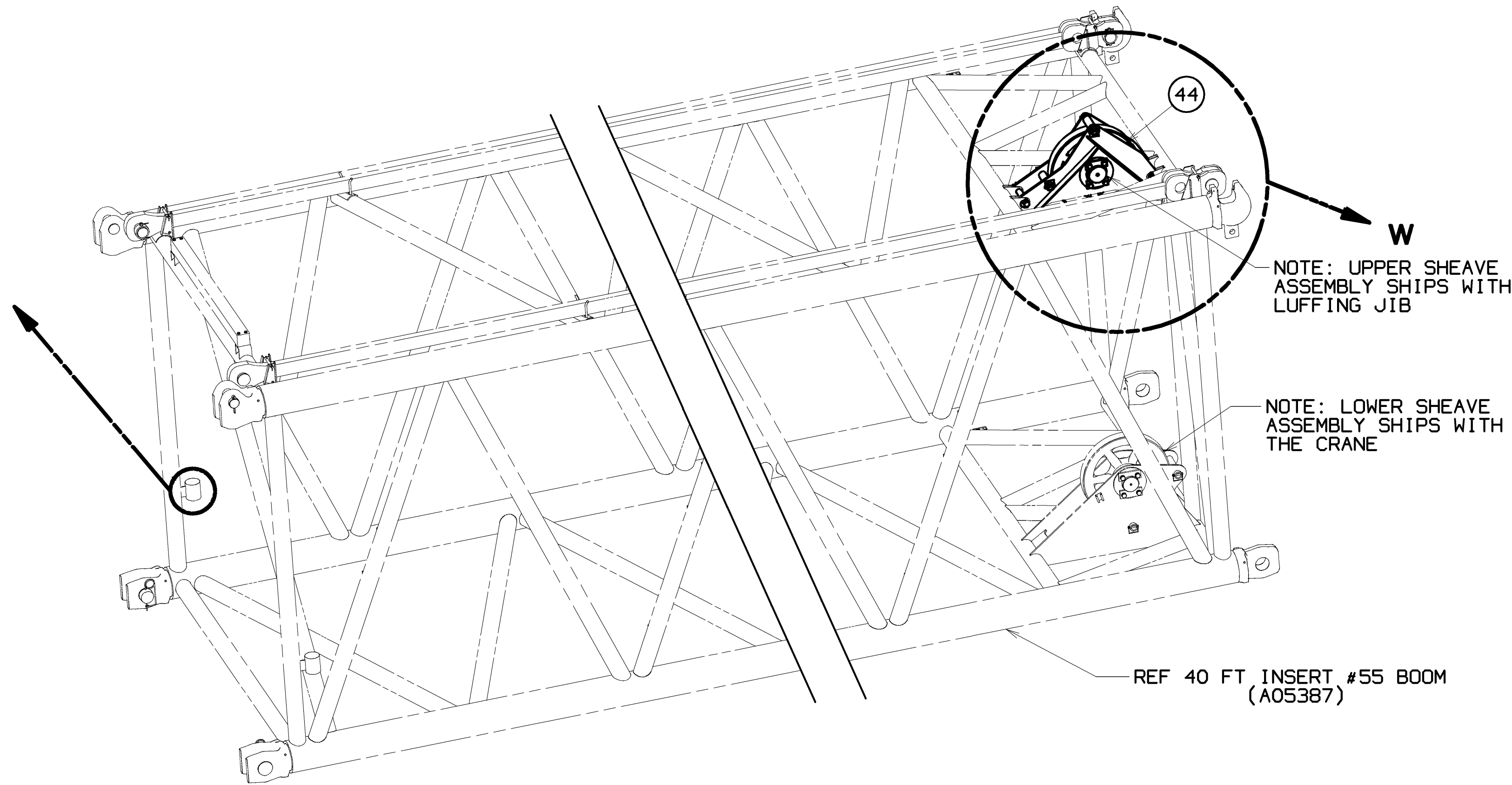
VIEW 2

SUPERSEDES A07766 SHT 7 OF 7 OF 01-30-07

THIS PRINT REMAINS THE PROPERTY OF HAWTHORNE CRANES, INC. IT IS LOANED, SUBJECT TO RETURN WITHIN 30 DAYS, 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 DECIMAL PLACES (1) PLACE 0.0 ±.12 ±.18 ±.03 (2) PLACE 0.00 ±.06 ±.12 ±.015 (3) PLACE 0.000 ±.006 ±.015 ±.005 ANGLES 1°-30' 30'-90'		SCALE N/A JAS JAS MODEL 18000 APP DMD	MANUFACTURED BY HAWTHORNE CRANES, INC. WISCONSIN WISCONSIN WISCONSIN WISCONSIN	DATE 01-26-10 JAS UPDATED SIGN ON LUFFING JIB TOP AND BOOM TOP	REVISIONS 01-26-10 JAS UPDATED SIGN ON LUFFING JIB TOP AND BOOM TOP
PRIVATE LABELING REQUIREMENT TO CONFORM TO ENGINEERING SPECIFICATION 6629103794 FOR COMPONENTS LISTED IN 00500-00-005		DATE 10-20-09		PATTERN NO.		A07766	
SHT 8 OF 8		SHT 8 OF 8		SHT 8 OF 8		SHT 8 OF 8	



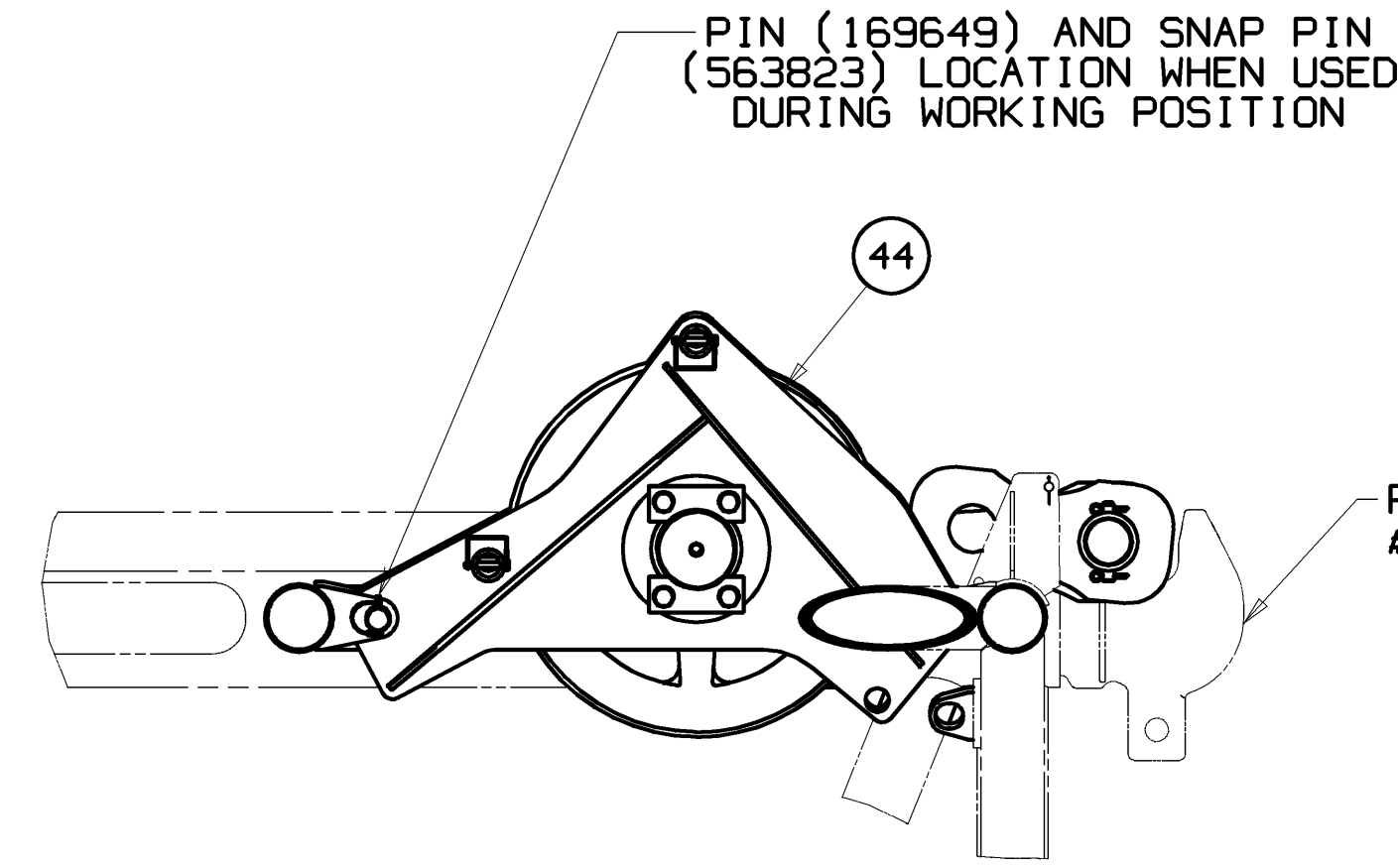
PIN STORAGE
TYP BOTH SIDES
EACH INSERT



NOTE: UPPER SHEAVE
ASSEMBLY SHIPS WITH
LUFFING JIB

NOTE: LOWER SHEAVE
ASSEMBLY SHIPS WITH
THE CRANE

REF 40 FT INSERT #55 BOOM
(A05387)



A06399 (ITEM 44) SHOWN IN WORKING POSITION

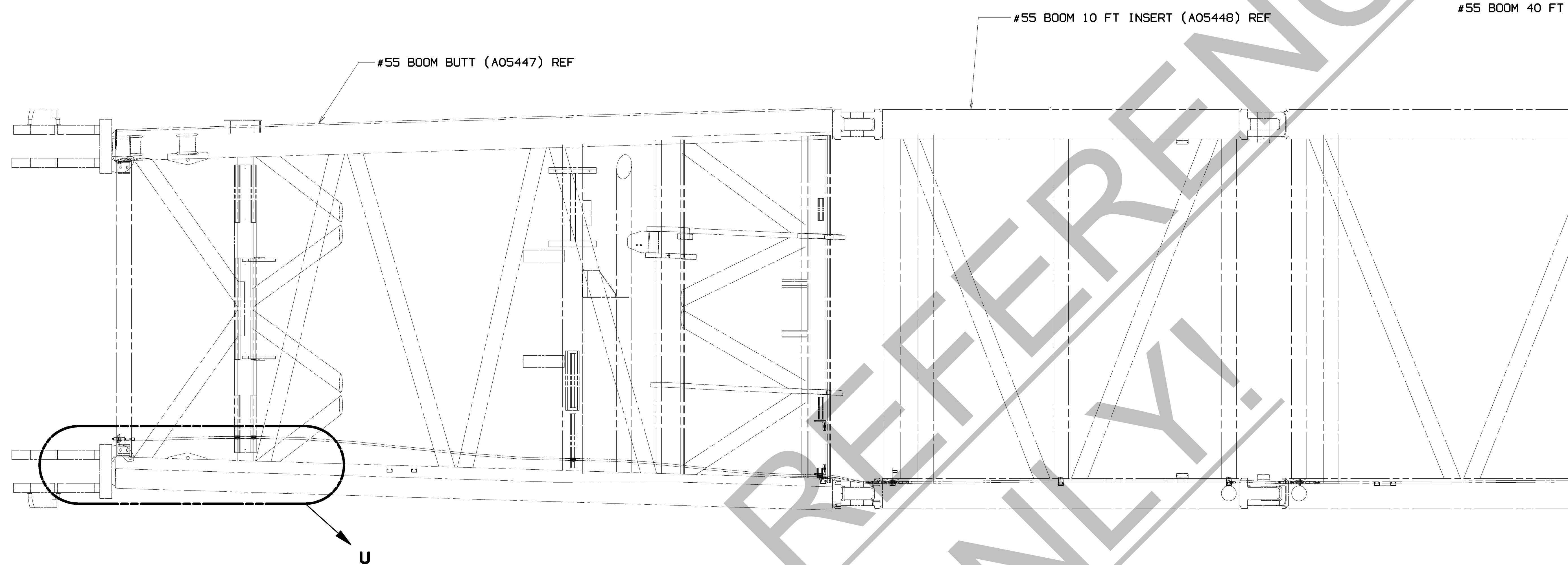
REF 40FT INSERT
#55 BOOM (A05387)

REF 40 FT INSERT #55 BOOM
(A05387)

PIN (169649) AND SNAP
PIN (563823) LOCATION
WHEN STORING A06399

A06399 (ITEM 44) SHOWN IN STORED POSITION

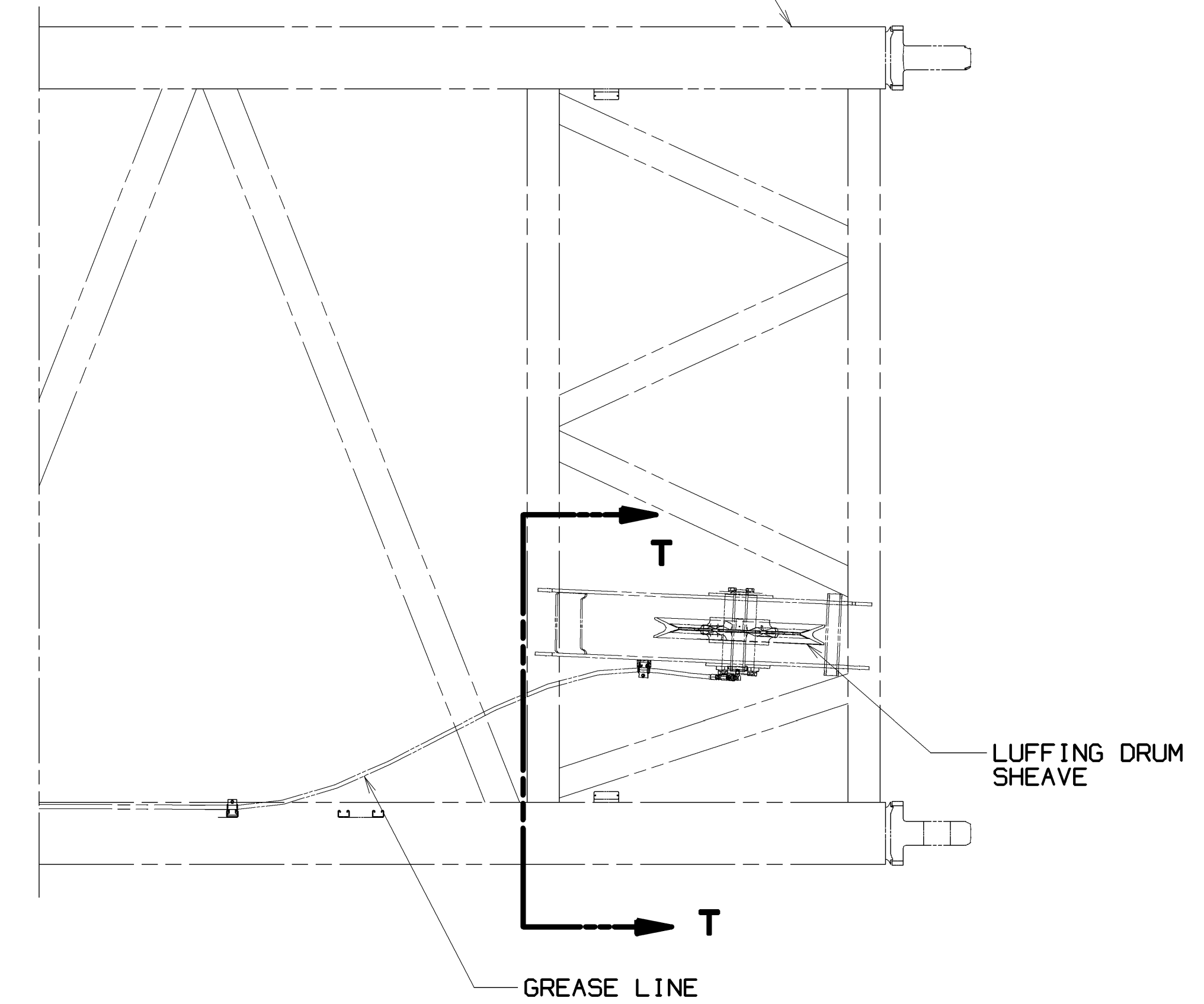
VIEW W
SCALE: 1"=1FT



#55 BOOM BUTT (A05447) REF

#55 BOOM 10 FT INSERT (A05448) REF

#55 BOOM 40 FT INSERT WITH LUFFING JIB SHEAVE (A05451) REF

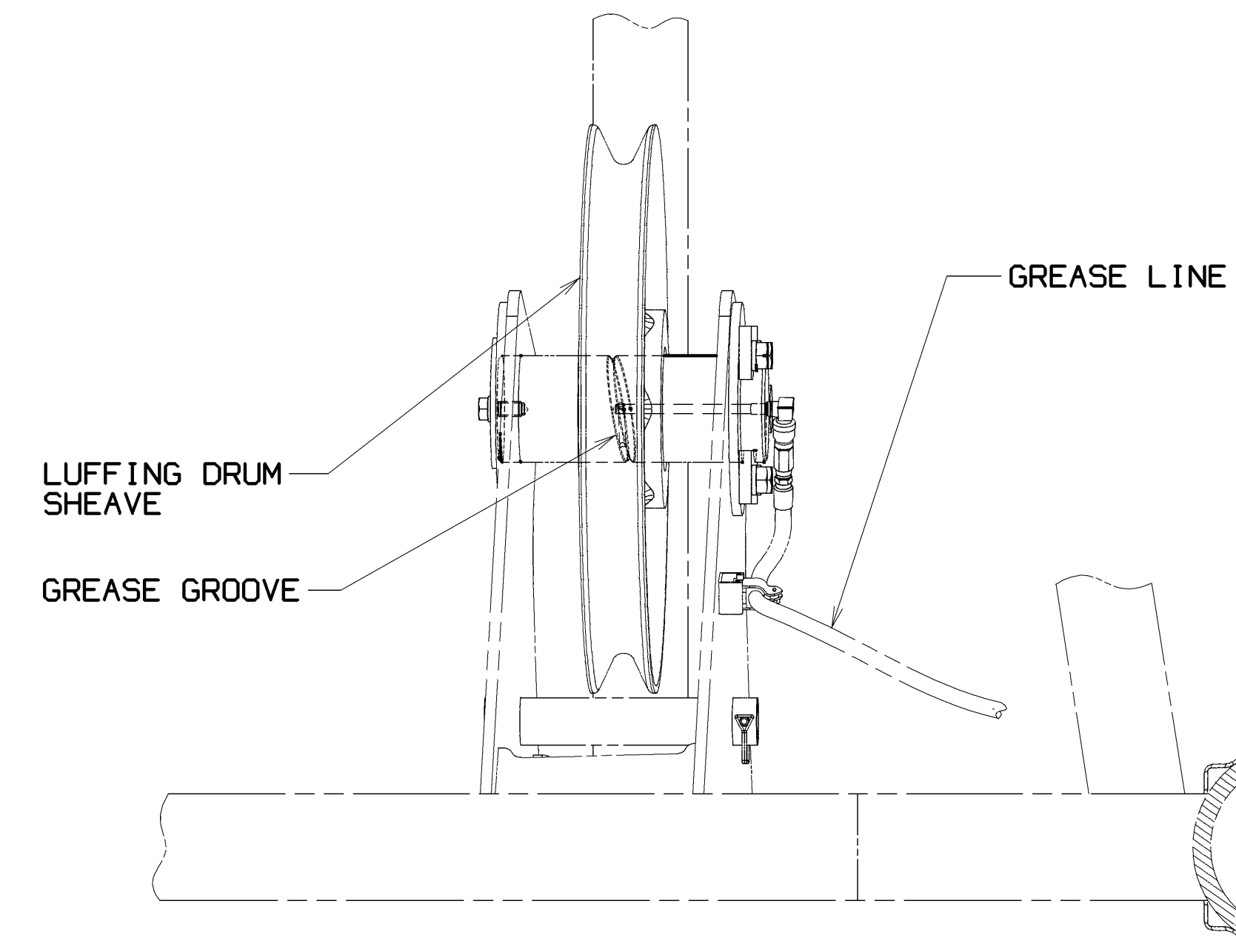


LUFFING DRUM
SHEAVE

GREASE LINE

GREASE ZERK FOR
LUFFING DRUM SHEAVE

GREASE LINE



GREASE LINE

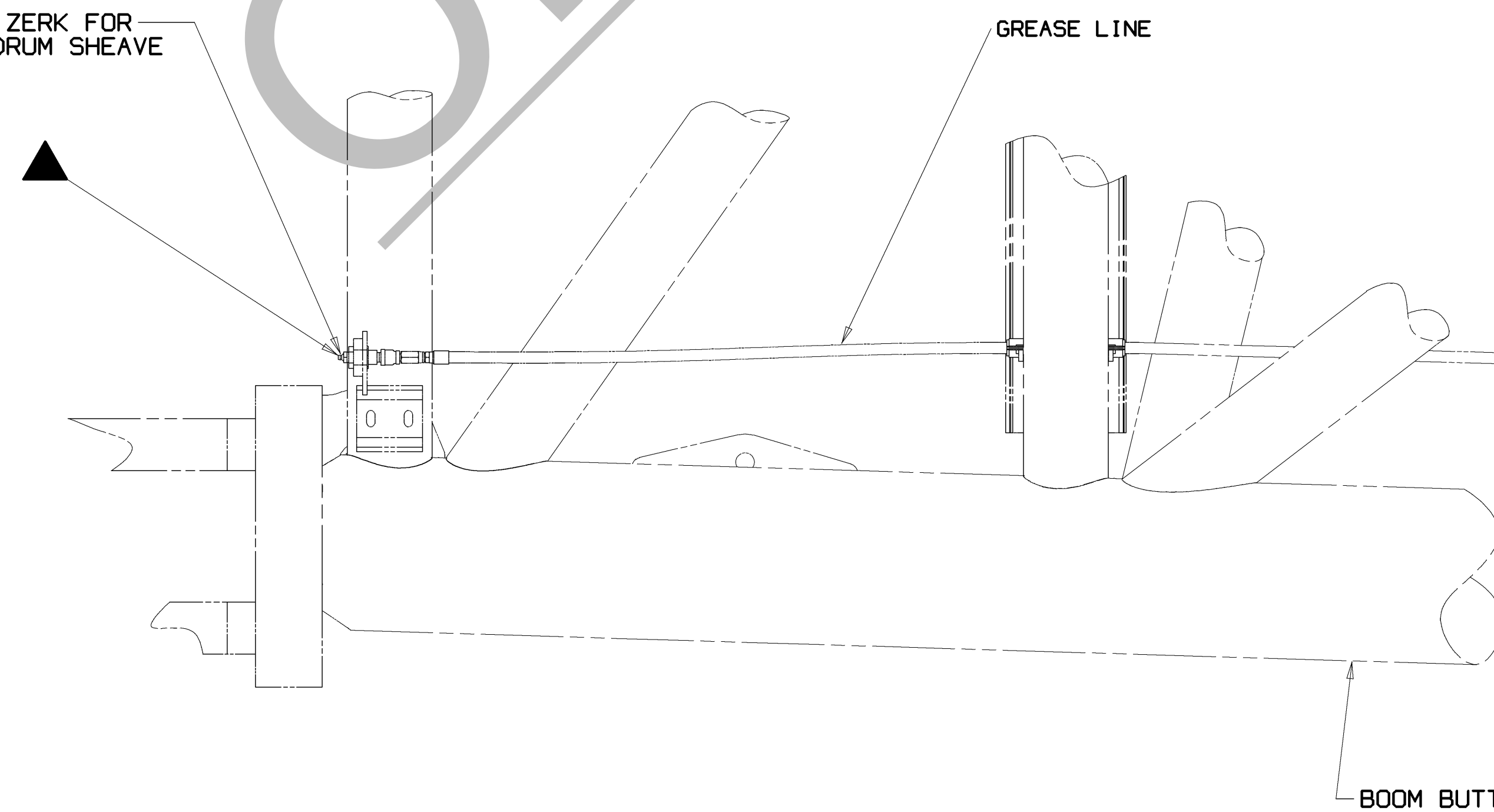
LUFFING DRUM
SHEAVE
GREASE GROOVE

SECTION T-T

SCALE: 1.50 = 1 FT

⑤ GREASING LUFFING DRUM SHEAVE.

1. RAISE OR LOWER JIB UNTIL LUFFING DRUM SHEAVE IS IN THE CENTER OF ITS SHAFT AND GREASE GROOVE IS COMPLETELY COVERED BY SHEAVE.
2. BEFORE INITIAL BOOM RAISING, CONNECT GREASE LINE SECTIONS AND PUMP GREASE (AT THE GREASE ZERK IN THE BOOM BUTT) THROUGH LINE UNTIL GREASE BEGINS TO COME OUT OF GREASE HOLE IN SHAFT.



BOOM BUTT

VIEW U

SCALE: 1.50 = 1 FT

BILL OF MATERIAL					ASSEMBLIES USED ON
ITEM NO.	REV.	DESCRIPTION	QTY	MATERIAL	DATE

ITEM NO.	REV.	DESCRIPTION	QTY	MATERIAL	DATE
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REVISIONS

DWG. NO.

A07766

SHT 7 OF 8

PRIVATE LABELING
REQUIREMENT TO
CONFORM TO
ENGINEERING
SPECIFICATION
6829103794 FOR
COMPONENTS LISTED
IN 6829103794

DATE

10-20-09

PATTERN NO.

DWG. NO.

A07766

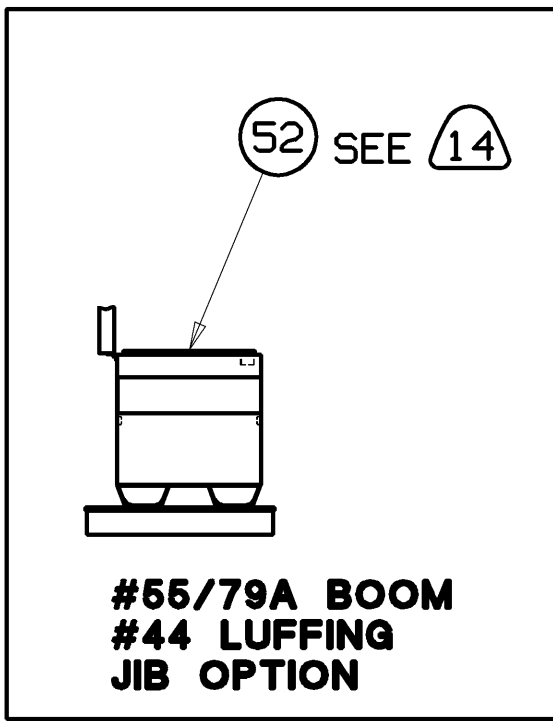
SHT 7 OF 8

SUPERSEDES A07766 SHT 7 OF 7 OF 01-30-07

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DECIMAL PLACES	± 10 FEET	± 10 FEET	± 10 FEET	± 10 FEET	± 10 FEET	MANITOWOC CRANES, INC.	JIB LUFFING ASSEMBLY
(1) PLACE 0.00	± 0.06	± 0.06	± 0.06	± 0.06	± 0.06	MANITOWOC CRANES, INC.	JIB LUFFING ASSEMBLY
(2) PLACE 0.00	± 0.06	± 0.06	± 0.06	± 0.06	± 0.06	MANITOWOC CRANES, INC.	JIB LUFFING ASSEMBLY
(3) PLACE 0.000	± 0.005	± 0.005	± 0.005	± 0.005	± 0.005	MANITOWOC CRANES, INC.	JIB LUFFING ASSEMBLY
ANGLES	± 1°	± 1°	± 1°	± 1°	± 1°	MANITOWOC CRANES, INC.	JIB LUFFING ASSEMBLY

- 1 IF BOOM TOP DOES NOT HAVE LUGS TO SUPPORT ROLLER ASSEMBLY A05312, USE ROLLER ASSEMBLY A00678 IN PLACE OF A05312
- 2 #44 2 PIECE BUTT REQUIRES MODIFICATION 417346
#44 1 PIECE BUTT REQUIRES MODIFICATION 417345
- 3 IF EQUIPPED WITH A RIGGING WINCH REPLACE WITH MOD DRAWING A15763.
- 4 IF EQUIPPED WITH A RIGGING WINCH REPLACE WITH MOD DRAWING A15934.
- 5 IF EQUIPPED WITH A RIGGING WINCH REPLACE WITH MOD DRAWING A15764.
- 6 TOP 30 FT I.D. TAG #179915 OR A15764.
- 7 BUTT 40 FT I.D. TAG #417345 OR A15763.
- 8 BUTT 40 FT, LOWER I.D. TAG #417346.
- 9 BUTT 40 FT, UPPER I.D. TAG #171284 OR A15934.
- 10 INSERT 10 FT I.D. TAG #179912.
- 11 INSERT 20 FT I.D. TAG #179913.
- 12 INSERT 40 FT I.D. TAG #179914.
- 13 REFERENCE BOOM RIGGING ASSEMBLY A05379 FOR BOOM MAKE-UP
- 14 81010097 TO BE SHIPPED AS A LOOSE ITEM TO STOW PARTS FOR THE LUFFING JIB WITH THE #55/79 BOOM #44 LUFFING JIB REFER TO THE NAMEPLATE AND DECAL ASSEMBLY 81009455 FOR CORRECT LUFFING JIB CONFIGURATION DECALS

BILL OF MATERIAL					
ITEM NO.	REQ.	DESCRIPTION	LENGTH	MATERIAL	QTY
REFERENCE ITEMS LISTED FOR STRUT RAISING PROCEDURE. SEE SHEET 4 AND 5					
R1	2	PIN		194981	
R2	2	CABLE ASSEMBLY - 60 FT		194997	
R3	2	ADJUSTABLE LENGHT JIB SDTRAP WLDMNT		194861	
R4	2	COLLAR		179862	
R5	2	PIN, STRAP ADJUST		194872	
R6	4	COLLAR		194966	
R7	2	PIN		194967	
R8					
R9	2	PIN		194992	
R10	2	STRAP		194993	
R11	2	PIN		194994	
R12					
R13	2	PIN		179959	
R14					
R15	2	PENDANT		276935	
R16					



PARTS REQ'D. FOR VARIOUS JIB LENGTHS - SEE SHEET 3 FOR JIB MAKE-UP														ADJUSTABLE STRAP LENGTHS	
ITEM NO.		63	64	65	60	61	62	59	75	66	67	68	76	POSITION	STRAP LENGTH
JIB LENGTH		10 FT 3.05 M INSERT	20 FT 6.10 M INSERT	40 FT 12.19 M INSERT	10 FT (2.91M) STRAP	20 FT (5.91M) STRAP	40 FT (12.00M) STRAP	PIN	TIMBER	BOOM SUPPORT LINK	COLLAR	PIN	PIN		
FEET	METERS														
70	23.3	0	0	0	0	0	0	2	2	0	4	4	4	70	580.00
80	24.4	1	0	0	2	0	0	6	3	4	8	8	8	80	557.87
90	27.4	0	1	0	0	2	0	6	3	4	8	8	8	90	539.75
100	30.5	1	1	0	2	2	0	10	4	8	12	12	12	100	524.88
110	33.5	OR 0	2	0	0	4	0	10	4	8	12	12	12	110	512.38
120	36.6	OR 1	2	0	2	4	0	14	5	12	16	16	16	120	501.75
130	39.6	0	1	1	0	2	2	10	5	8	12	12	12	130	484.75
140	42.7	1	1	1	2	2	2	14	6	12	16	16	16	140	
150	45.7	OR 0	2	1	0	4	2	14	6	12	16	16	16	150	471.88
160	48.8	OR 1	2	1	2	4	2	18	7	16	20	20	20	160	
170	51.8	0	1	2	0	2	4	14	7	12	16	16	16	170	461.63
180	54.9	1	1	2	2	2	4	18	8	16	20	20	20	180	
190	57.9	OR 0	2	2	0	4	4	18	8	16	20	20	20	190	
200	61.0	OR 1	2	2	2	4	4	22	9	20	24	24	24	200	450.13
210	64.0	0	1	3	2	0	6	18	9	16	20	20	20	210	
220	67.1	1	1	3	2	2	6	22	10	20	24	24	24		
230	70.1	OR 0	2	3	0	4	6	22	10	20	24	24	24	230	441.13
240	73.2	OR 1	2	3	2	4	6	26	11	24	28	28	28	240	
		1	0	4	2	0	8	22	11	20	24	24	24		

BILL OF MATERIAL					
ITEM NO.	REQ.	DESCRIPTION	LENGTH	MATERIAL	QTY
NO. REQ'D FOR THE FOLLOWING ITEMS ARE IN THE TABLES					
59		PIN		78292	
60		STRAP (10 FT)		179837	
61		STRAP (20 FT)		179838	
62		STRAP (40 FT)		179839	
63		INSERT 10 FT (3.05 M)		179912	10
64		INSERT 20 FT (6.10 M)		179913	11
65		INSERT 40 FT (12.19 M)		179914	12
66		BOOM SUPPORT LINK		192250	
67		COLLAR		179862	
68		PIN		179863	
69		PIN COTTER .125 X 1.50		562045	
70		PIN COTTER .188 X 1.50		562085	
71		PIN COTTER .250 X 1.50		562105	
72		STRAP 20 FT #55 BOOM, 2.0 X 3.75		A05196	
73		STRAP 40 FT #55 BOOM, 2.0 X 3.75		A05197	
74		STRAP 10 FT #55 BOOM, 2.0 X 3.75		A05198	
75		TIMBER		178905	
76		PIN		179959	
77		PIN 1 HOLE W/HD 3.00 DIA		A06149	
78		PIN 2 HOLE .75 DIA		A06150	
79		COLLAR		A06151	
80		LINK #55 BOOM		A06457	
81					
82		PIN 2 HOLE .63 DIA X 6.75 LG		A07033	
83		PIN 2 HOLE .63 DIA X 6.00 LG		A07034	
84		STRAP 55/79 TRANSITION		A07111	
85		LINK 55/79 TRANSITION		A07112	
86		LINK #55 BOOM		A07498	
87		PIN 1 HOLE W/HD		A07517	
88		PIN 2 HOLE .63 DIA X 9.88 LG		A07565	
OPTIONAL GUARD WIRE ROPE ASSEMBLY FOR CE CODE					
89	1	GUARD WIRE ROPE FOR CE CODE		A06120	
OPTIONAL PARTS					
90	1	500T HOOK ASSEMBLY		A07773	
91	1	450T HOOK ASSEMBLY		A07752	
92	1	250MT HOOK ASSEMBLY		237074	
93	1	100T HOOK ASSEMBLY		236505	
94	1	HOOK 30T SWIVEL ASSEMBLY		A00816	
95	1	250MT HOOK ASSEMBLY		A14753	
96	1	BLOCK 200 TON DUPLEX HOOK		81015924	

BILL OF MATERIAL					
ITEM NO.	REQ.	DESCRIPTION	LENGTH	MATERIAL	QTY
#44 LUFFING JIB STANDARD					
1					
2	AS	WASHER		137502	
3	2	PIN		160720	
4	4	PIN		172298	
5					
6					
7					
8	1	LUFFING JIB LOWER POINT ROLLER ASSY		172960	
9					
10					
11	1	LUFFING JIB UPPER POINT ROLLER ASSY		174211	
12	4	PIN		179959	
13	2	STRAP		179840	
14	1	BOOM TOP (30 FT.)-(9.14 M)		179915	6
15					
16					
17	1	MAIN STRUT ASSEMBLY		194162	
18	1	JIB STRUT ASSEMBLY		194160	
19	2	SHAFT		195197	
20	4	KEEPER PLATE		195198	
21	2	SHAFT		195204	
22	2	PIN		195208	
23	1	JIB STOP ASSEMBLY		195209	
24	2	PIN		195666	
25					
26					
27					
28	32	SCR M8 X 30, 4.8 ZINC PLT		7121171301	
29	32	NUT HEX M8-1.25 10 PLN		7661170004	
30	32	WASHER LOCK M8		7951170210	
31					
32					
33					
34	2	JIB STRUT SUPPORT		A00228	
35	2	SIGN BOOM MANITOWOC		81008829	
36	1	DRUM ASSY LUFFING		A04331	
37					
38					
39	1	ROLLER ASSEMBLY		A05312	1
40					
41					
42					
43	2	PAWL ASSEMBLY LUFFING DRUM		A06344	
44	1	GUARD WIRE ROPE ASSEMBLY LUFFING LINE		A06399	
45					
46					
47					
48	1	ADAPTER FRAME ASSY		A07488	
49					
50					
51					
52	1	PARTS BOX FOR PARTS STOWAGE		81007957	14
53					
JIB BUTT MOD. 1 PIECE					
54	1	#44 40 FT BOOM BUTT		171230	2,3,7
JIB BUTT MOD. 2 PIECE					
55	1	#44 40 FT BOOM, LOWER SECTION		171283	2,8
56	1	40 FT. BOOM, UPPER SECTION		171284	4,9
57					
58					

JIB BACKSTAY ITEMS REQ'D. FOR VARIOUS BOOM LENGTHS - SEE SHT 2 FOR BOOM MAKE-UP																										
ITEM NO.		74	72	73	80	84	85	86	87	77	78	79	82	83	88	69	70	71	61	62	66	67	68	76	59	JIB BACKSTAY ADJUSTMENT HOLE SEE VIEW D
BOOM LENGTH		STRAP 10 FT #55 BOOM	STRAP 20 FT #55 BOOM	STRAP 40 FT #55 BOOM	LINK #55 BOOM	STRAP 55/79 TRANSITION	LINK 55/79 TRANSITION	LINK #55 BOOM (BUTT)	PIN 1 HOLE W/ HEAD	PIN 1 HOLE W/HD 3.00 DIA	PIN 2 HOLE .75 DIA	COLLAR	PIN 2 HOLE .63 DIA X 6.75 LG	PIN 2 HOLE .63 DIA X 6.00 LG	PIN 2 HOLE .63 DIA X 9.88 LG	PIN COTTER .125 X 1.50	PIN COTTER .188 X 1.50	PIN COTTER .250 X 1.50	STRAP 20 FT	STRAP 40 FT	LINK	COLLAR	PIN	PIN	PIN	
FEET	METERS																									
140	42.7	2	0	2	8	2	4	2	2	10	12	12	2	2	2	20	4	24	0	0	0	2	2	2	4	A
160	48.8	2	2	2	12	2	4	2	2	14	16	16	4	4	2	28	4	32	0	0	0	2	2	2	4	A
180	54.9	2	2	2	12	2	4	2	2	14	16	16	4	4	2	28	4	32	2	0	4	6	6	6	8	B
200	60.9	2	2	2	12	2	4	2	2	14	16	16	4	4	2	28	4	32	0	2	4	6	6	6	8	B
220	67.0	2	2	2	12	2	4	2	2	14	16	16	4	4	2	28	4	32	2	2	8	10	10	10	12	C
240	73.2	2	2	2	12	2	4	2	2	14	16	16	4	4	2	28	4	32	0	4	8	10	10	10	12	C
260	79.2	2	2	2	12	2	4	2	2	14	16	16	4	4	2	28	4	32	2	4	12	14	14	14	16	C
280	85.3	2	2	2	12	2	4	2	2	14	16	16	4	4	2	28	4	32	0	6	12	14	14	14	16	C

SUPERSEDES A07766 SHT 6 OF 7 OF 09-14-09

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DECIMAL PLACES	1/16	1/32	1/64	1/16	1/32	1/64	1/16	1/16	1/32	DR. JAS	MODEL 18000	#44 LUFFING JIB	
(1) PLACE 0.0	±.12	±.06	±.03	±.12	±.06	±.03	±.12	±.12	±.06	CK. JAS		#55/79A BOOM W/100 FT MAST	
(2) PLACE 0.00	±.06	±.03	±.015	±.06	±.03	±.015	±.06	±.06	±.03	APP. PMP			
(3) PLACE 0.000	±.03	±.015	±.005	±.03	±.015	±.005	±.03	±.03	±.015				

PRIVATE LABEL
REQUIREMENT 1
CONFORM TO
ENGINEERING
SPECIFICATION
6829103794 FOR
COMPONENTS LISTED
IN GD5500-05-C

DATE
10-20-09

PATTERN NO.

DRG. NO.
A07766

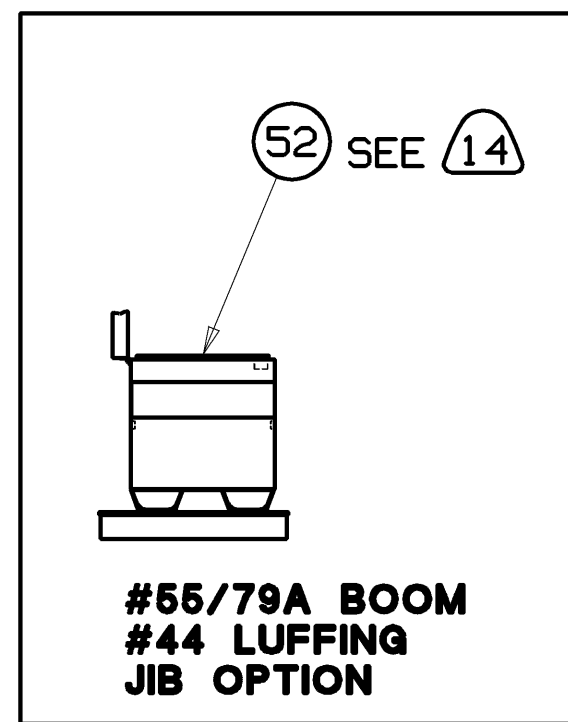
BOOM SECTION	OPTIONAL CAT WALK ASSY
179915	81016965
179912	81016945
179913	81016946
179914	81016947

BILL OF MATERIAL						
ITEM NO.	QTY	REMARKS	DESCRIPTION	LENGTH IN.	MATERIAL	CODE NO.
NO.	NO.	NO.	NO.	NO.	NO.	NO.
REFERENCE ITEMS LISTED FOR STRUT RAISING						
PROCEDURE. SEE SHEET 4 AND 5						
R1			2PIN			194981
R2			2CABLE ASSEMBLY - 60 FT			194997
R3			2ADJUSTABLE LENGHT JIB SDTRAP WILDMNT			194861
R4			2COLLAR			179862
R5			2PIN, STRAP ADJUST			194872
R6			4COLLAR			194966
R7			2PIN			194967
R8						
R9			2PIN			194992
R10			2STRAP			194993
R11			2PIN			194994
R12						
R13						179959
R14						
R15			2PENDANT			276935
R16						

- ① IF BOOM TOP DOES NOT HAVE LUGS TO SUPPORT ROLLER ASSEMBLY A05312. USE ROLLER ASSEMBLY A00678 IN PLACE OF A05312
- ② ##44 2 PIECE BUTT REQUIRES MODIFICATION 417346
##44 1 PIECE BUTT REQUIRES MODIFICATION 417345
- ③ IF EQUIPPED WITH A RIGGING WINCH REPLACE WITH MOD DRAWING A15763.
- ④ IF EQUIPPED WITH A RIGGING WINCH REPLACE WITH MOD DRAWING A15934.
- ⑤ IF EQUIPPED WITH A RIGGING WINCH REPLACE WITH MOD DRAWING A15764.
- ⑥ TOP 30 FT I.D. TAG #179915 OR A15764.
- ⑦ BUTT 40 FT I.D. TAG #417345 OR A15763.
- ⑧ BUTT 40 FT, LOWER I.D. TAG #417346.

PARTS REQ'D. FOR VARIOUS JIB LENGTHS - SEE SHEET 3 FOR JIB MAKE-UP														ADJUSTABLE STRAP LENGTHS	
ITEM NO.		63	64	65	60	61	62	59	75	66	67	68	76	POSITION	STRAP LENGTH
JIB LENGTH		10 FT 3.05 M INSERT	20 FT 6.10 M INSERT	40 FT 12.19 M INSERT	10 FT (2.86M) STRAP	20 FT (5.91M) STRAP	40 FT (12.00M) STRAP	PIN	TIMBER	BOOM SUPPORT LINK	COLLAR	PIN	PIN		
FEET	METERS														
70	23.3	0	0	0	0	0	0	2	2	0	4	4	4	70	580.00
80	24.4	1	0	0	2	0	0	6	3	4	8	8	8	80	557.87
90	27.4	0	1	0	0	2	0	6	3	4	8	8	8	90	539.75
100	30.5	1	1	0	2	2	0	10	4	8	12	12	12	100	524.88
110	33.5	OR 0	2	0	0	4	0	10	4	8	12	12	12	110	512.38
		0	0	1	0	0	2	6	4	4	8	8	8		
120	36.6	OR 1	2	0	2	4	0	14	5	12	16	16	16	120	501.75
		1	0	1	2	0	2	10	5	8	12	12	12		
130	39.6	0	1	1	0	2	2	10	5	8	12	12	12	130	484.75
140	42.7	1	1	1	2	2	2	14	6	12	16	16	16	140	
150	45.7	OR 0	2	1	0	4	2	14	6	12	16	16	16	150	471.88
		0	0	2	0	0	4	10	6	8	12	12	12		
160	48.8	OR 1	2	1	2	4	2	18	7	16	20	20	20	160	
		1	0	2	2	0	4	14	7	12	16	16	16		
170	51.8	0	1	2	0	2	4	14	7	12	16	16	16	170	461.63
180	54.9	1	1	2	2	2	4	18	8	16	20	20	20	180	
190	57.9	OR 0	2	2	0	4	4	18	8	16	20	20	20	190	450.13
		0	0	3	0	0	6	14	8	12	16	16	16	200	
200	61.0	OR 1	2	2	2	4	4	22	9	20	24	24	24	200	
		1	0	3	2	0	6	18	9	16	20	20	20	210	
210	64.0	0	1	3	0	2	6	18	9	16	20	20	20		
220	67.1	1	1	3	2	2	6	22	10	20	24	24	24		
230	70.1	OR 0	2	3	0	4	6	22	10	20	24	24	24	220	441.13
		0	0	4	0	0	8	18	10	16	20	20	20	230	
240	73.2	OR 1	2	3	2	4	6	26	11	24	28	28	28	240	
		1	0	4	2	0	8	22	11	20	24	24	24		

BILL OF MATERIAL									
ITEM NO.	SEC.	DESCRIPTION	LENGTH	MATERIAL	QTY	CODE NO.	DELTA		
NO. REQ'D FOR THE FOLLOWING									
ITEMS ARE IN THE TABLES									
59		PIN				78292			
60		STRAP (10 FT)				179837			
61		STRAP (20 FT)				179838			
62		STRAP (40 FT)				179839			
63		INSERT 10 FT (3.05 M)				179912	10.15		
64		INSERT 20 FT (6.10 M)				179913	11.15		
65		INSERT 40 FT (12.19 M)				179914	12.15		
66		BOOM SUPPORT LINK				192250			
67		COLLAR				179862			
68		PIN				179863			
69		PIN COTTER .125 X 1.50				562045			
70		PIN COTTER .188 X 1.50				562085			
71		PIN COTTER .250 X 1.50				562105			
72		STRAP 20 FT #55 BOOM. 2.0 X 3.75				A05196			
73		STRAP 40 FT #55 BOOM. 2.0 X 3.75				A05197			
74		STRAP 10 FT #55 BOOM. 2.0 X 3.75				A05198			
75		TIMBER				178905			
76		PIN				179959			
77		PIN 1 HOLE W/HD 3.00 DIA				A06149			
78		PIN 2 HOLE .75 DIA				A06150			
79		COLLAR				A06151			
80		LINK #55 BOOM				A06457			
81									
82		PIN 2 HOLE .63 DIA X 6.75 LG				A07033			
83		PIN 2 HOLE .63 DIA X 6.00 LG				A07034			
84		STRAP 55/79 TRANSITION				A07111			
85		LINK 55/79 TRANSITION				A07112			
86		LINK #55 BOOM				A07498			
87		PIN 1 HOLE W/HD				A07517			
88		PIN 2 HOLE .63 DIA X 9.88 LG				A07565			
OPTIONAL GUARD WIRE ROPE ASSEMBLY FOR CE CODE									
89	1	GUARD WIRE ROPE FOR CE CODE				A06120			
OPTIONAL PARTS									
90	1	500T HOOK ASSEMBLY				A07773			
91	1	450T HOOK ASSEMBLY				A07752			
92	1	250MT HOOK ASSEMBLY				237074			
93	1	100T HOOK ASSEMBLY				236505			
94	1	HOOK 30T SWIVEL ASSEMBLY				A00816			
95	1	250MT HOOK ASSEMBLY				A14753			
E	96	1 BLOCK 200 TON DUPLEX HOOK				8015924			
G	97	CAT WALK ASSY 30FT #44 TOP				81016965	15		
H	98	CAT WALK ASSY 10FT #44 INSERT				81016945	15		
J	99	CAT WALK ASSY 20FT #44 INSERT				81016946	15		
K	100	CAT WALK ASSY 40FT #44 INSERT				81016947	15		



BILL OF MATERIAL					DATE	BY	NO.
ITEM NO.	QTY	DESCRIPTION	LENGTH IN.	MATERIAL	QTY	PRICE	AMOUNT
# 44 LUFFING JIB STANDARD							
1							
2	48	WASHER				137502	
3	2	PIN				160720	
4	4	PIN				172298	
5							
6							
7							
8	1	LUFFING JIB LOWER POINT ROLLER ASSY				172960	
9							
10							
11	1	LUFFING JIB UPPER POINT ROLLER ASSY				174211	
12	4	PIN				179959	
13	2	STRAP				179840	
14	1	BOOM TOP (30 FT.)-(9.14 M)				179915	5.6
15							
16							
17	1	MAIN STRUT ASSEMBLY				194162	
18	1	JIB STRUT ASSEMBLY				194160	
19	2	SHAFT				195197	
20	4	KEEPER PLATE				195198	
21	2	SHAFT				195204	
22	2	PIN				195208	
23	1	JIB STOP ASSEMBLY				195209	
24	2	PIN				195666	
25							
26							
27							
28	32	SCR M8 X 30, 4.8 ZINC PLT				712117	1301
29	32	NUT HEX M8-1.25 10 PLN				766117	0004
30	32	WASHER LOCK M8				795117	0021
31							
32							
33							
34	2	JIB STRUT SUPPORT				A00228	
35	2	SIGN BOOM MANITOWOC				810088	29
36	1	DRUM ASSY LUFFING				A04331	
37							
38							
39	1	ROLLER ASSEMBLY				A05312	1
40							
41							
42							
43	2	PAWL ASSEMBLY LUFFING DRUM				A06344	
44	1	GUARD WIRE ROPE ASSEMBLY LUFFING LINE				A06399	
45							
46							
47							
48	1	ADAPTER FRAME ASSY				A07488	
49							
50							
51							
52	1	PARTS BOX FOR PARTS STOWAGE				81007957	14
53							
JIB BUTT MOD. 1 PIECE							
54	1	#44 40 FT BOOM BUTT				171230	2.3
JIB BUTT MOD. 2 PIECE							
55	1	#44 40 FT BOOM, LOWER SECTION				171283	2.8
56	1	40 FT. BOOM, UPPER SECTION				171284	4.9
57							
58							

52	1PARTS BOX FOR PARTS STOWAGE	81007957	14
53			
UP BUTT MOD 1 PIECE			

JIB BUTT MOD. 1 PIECE			
54	1	#44 40 FT BOOM BUTT	171230 2.3.7

JIB BUTT MOD. 2 PIECE				
55	1#44	40 FT BOOM, LOWER SECTION	171283	2.8

56	140 FT. BOOM, UPPER SECTION	171284	4,9
57			
58			

JIB BACKSTAY ITEMS REQ'D. FOR VARIOUS BOOM LENGTHS - SEE SHT 2 FOR BOOM MAKE-UP																										
ITEM NO.		74	72	73	80	84	85	86	87	77	78	79	82	83	88	69	70	71	61	62	66	67	68	76	59	JIB BACKSTAY ADJUSTMENT HOLE SEE VIEW D
BOOM LENGTH		STRAP 10 FT #55 BOOM	STRAP 20 FT #55 BOOM	STRAP 40 FT #55 BOOM	LINK #55 BOOM	STRAP 55/79 TRANSITION	LINK 55/79 TRANSITION	LINK #55 BOOM (BUTT)	PIN 1 HOLE W/ HEAD	PIN 1 HOLE W/HD 3.00" DIA	PIN 2 HOLE .75" DIA	COLLAR	PIN 2 HOLE .63" DIA X 6.75 LG	PIN 2 HOLE .63" DIA X 6.00 LG	PIN 2 HOLE .63" DIA X 9.88 LG	PIN COTTER .125 X 1.50	PIN COTTER .188 X 1.50	PIN COTTER .250 X 1.50	STRAP 20 FT	STRAP 40 FT	LINK	COLLAR	PIN	PIN	PIN	
FEET	METERS																									
140	42.7	2	0	2	8	2	4	2	2	10	12	12	2	2	2	20	4	24	0	0	0	2	2	2	4	A
160	48.8	2	2	2	12	2	4	2	2	14	16	16	4	4	2	28	4	32	0	0	0	2	2	2	4	A
180	54.9	2	2	2	12	2	4	2	2	14	16	16	4	4	2	28	4	32	2	0	4	6	6	6	8	B
200	60.9	2	2	2	12	2	4	2	2	14	16	16	4	4	2	28	4	32	0	2	4	6	6	6	8	B
220	67.0	2	2	2	12	2	4	2	2	14	16	16	4	4	2	28	4	32	2	2	8	10	10	10	12	C
240	73.2	2	2	2	12	2	4	2	2	14	16	16	4	4	2	28	4	32	0	4	8	10	10	10	12	C
260	79.2	2	2	2	12	2	4	2	2	14	16	16	4	4	2	28	4	32	2	4	12	14	14	14	16	C
280	85.3	2	2	2	12	2	4	2	2	14	16	16	4	4	2	28	4	32	0	6	12	14	14	14	16	C

SUPERSEDES A07766 SHT 6 OF 7 OF 09-14-09

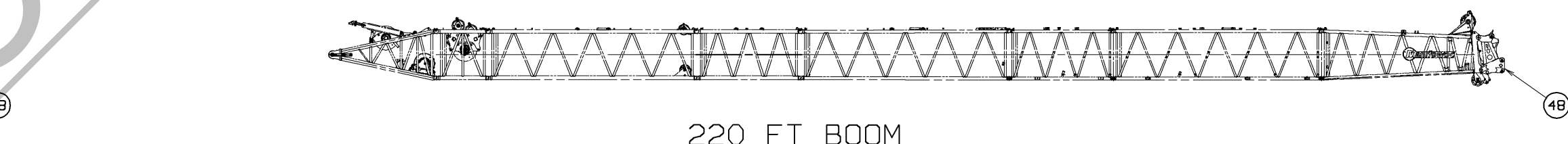
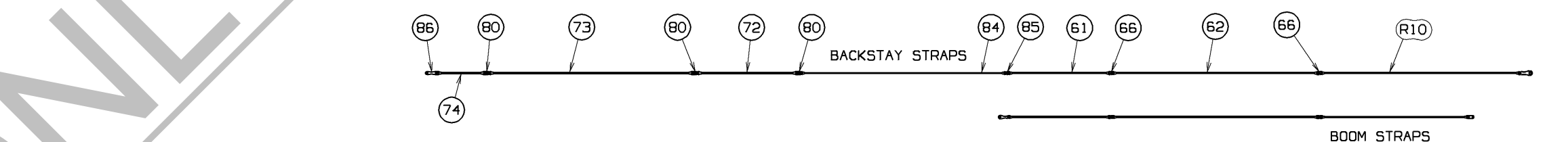
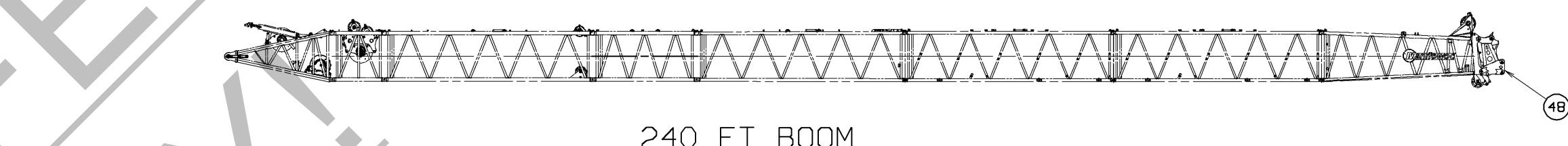
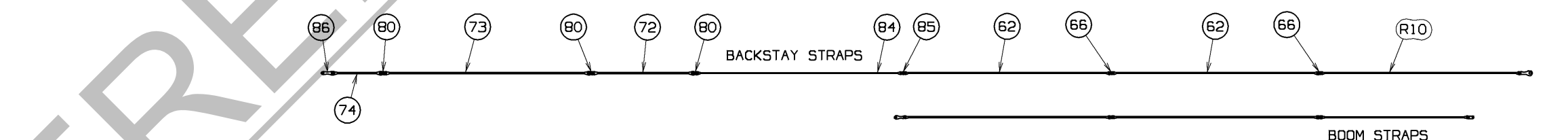
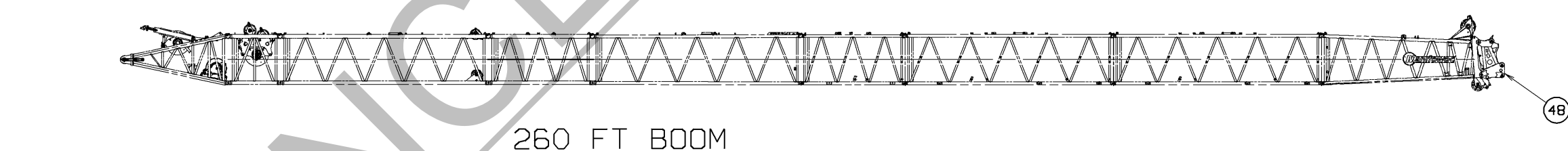
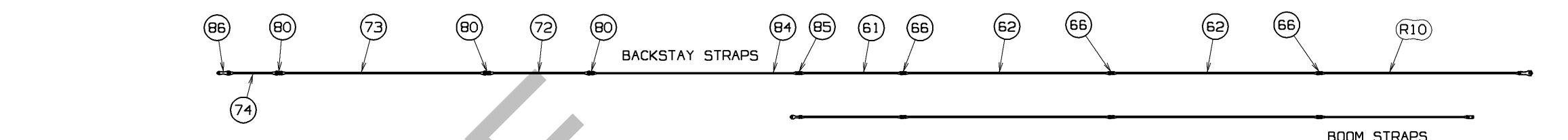
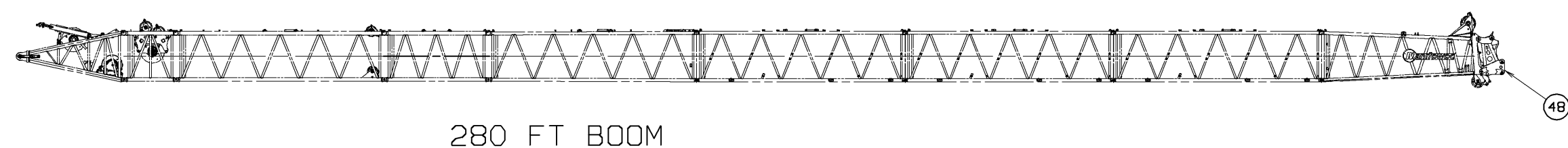
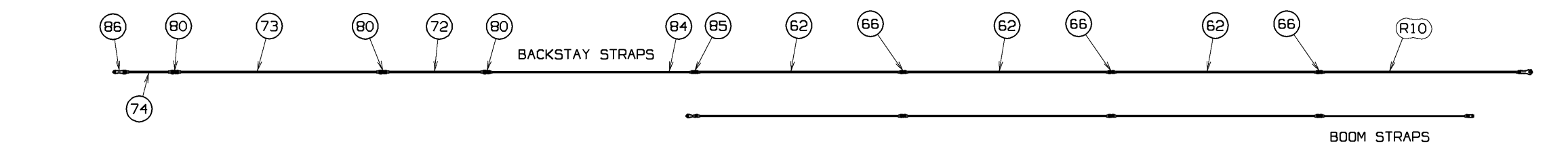
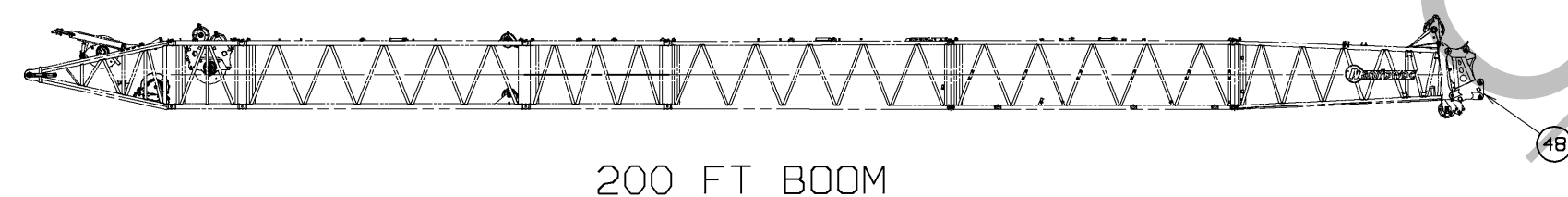
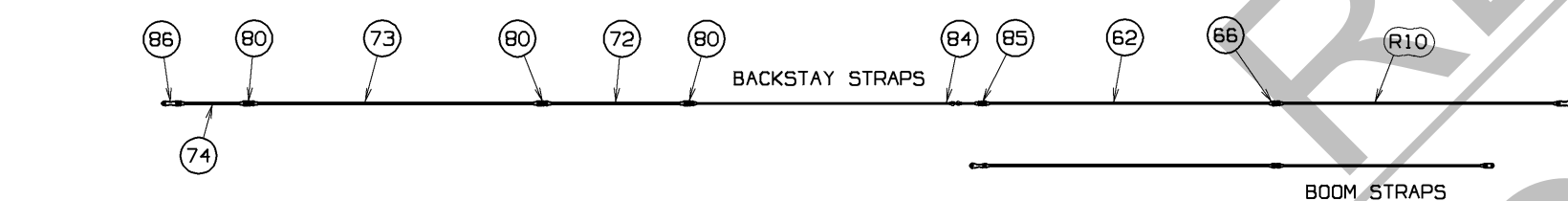
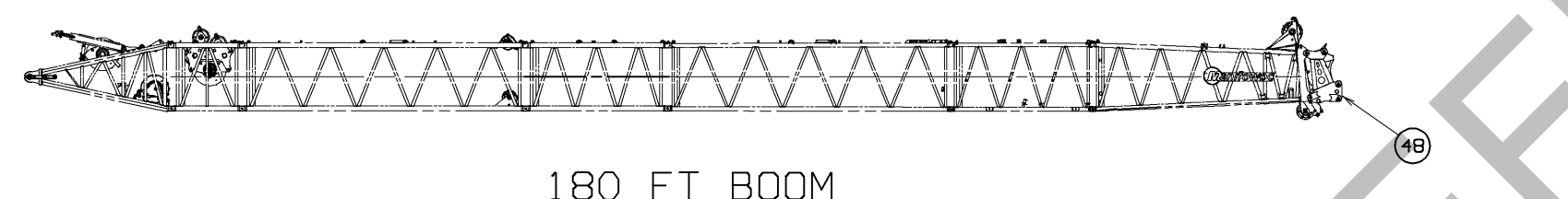
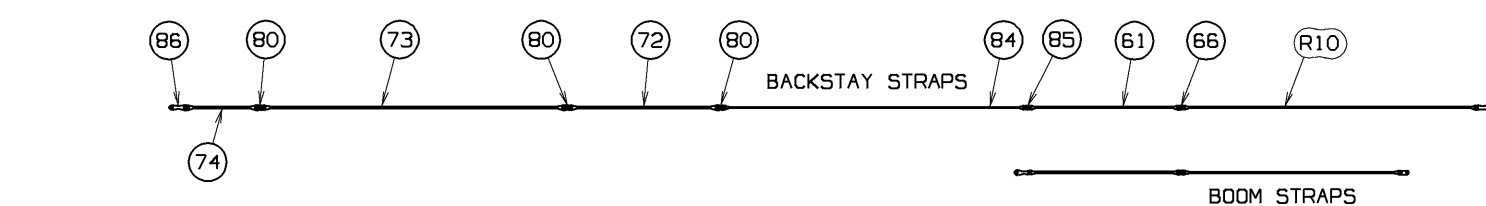
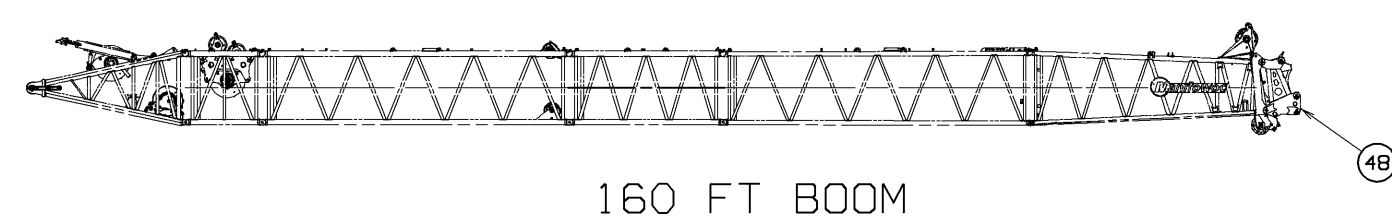
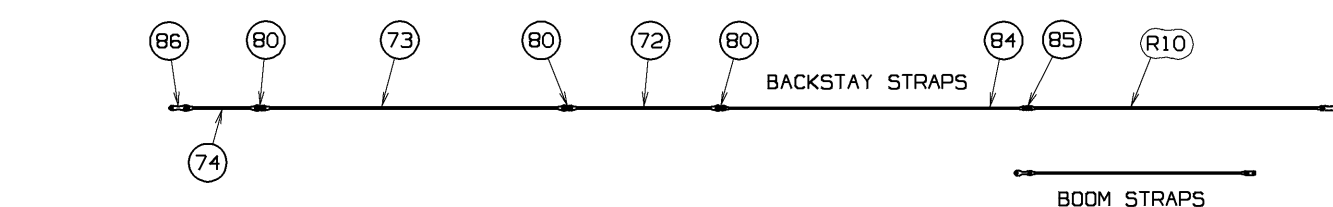
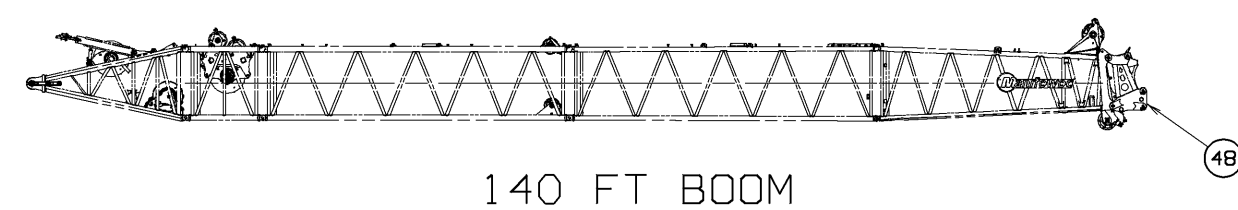
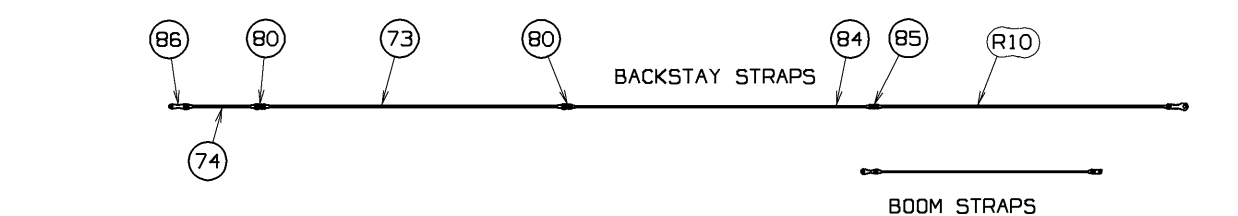
THIS PRINT REMAINS THE PROPERTY OF MANITOWOC CRANES, INC.		TOLERANCE UNLESS OTHERWISE SPECIFIED				SCALE	Manitowoc Cranes, Inc. Manitowoc, Wisconsin
ALL INFORMATION CONTAINED HEREIN IS CONFIDENTIAL. IT IS LOANED, SUBJECT TO RETURN UPON DEMAND, AND NO OTHERS COULD HAVE IT. IT IS NOT TO BE COPIED OR USED DIRECTLY OR INDIRECTLY, IN ANY WAY WHATSOEVER DETRIMENTAL TO OUR INTERESTS.		DECIMAL PLACES	FABRICATION	MACHINING	DR. JAS	Model 18000	
(1) PLACE 0.0	± 10 FEET	± 12	± 18	± .03	TOLERANCE TO BE MAINTAINED THROUGHOUT THE ENTIRE LIFE OF THE CRANE	JIB LUFFING ASSEMBLY	
(2) PLACE 0.0	± 10 FEET	± .08	± .12	± .015		CK JAS	# 44 LUFFING JIB
(3) PLACE 0.000	± 10 FEET	± .003	± .005	± .001		APP PMP	#55/79A BOOM W/100 FT MAST

PRIVATE LABELING
REQUIREMENT TO
CONFORM TO
ENGINEERING
SPECIFICATION
6829103794 FOR
COMPONENTS LISTED
IN GDS500-05-035

DATE	10-20-09
PATTERN NO.	

095. 81.

A07766
SHT 6 OF 8



#55/79A BOOM ASSEMBLY
(REFERENCE BOOM RIGGING ASSEMBLY 100 FT MAST - A05379)

BILL OF MATERIAL					
ITEM NO. NO. FROM	SEC- TION	DESCRIPTION	LENGTH IN.	MATERIAL	CODE NO. NO. DWS. NO.

	ASSEMBLIES USED ON
--	-----------------------

	REVISIONS

01-26-10 JAS
UPDATED
PICTURE OF
BOOM SIGN

DWG. NO.
A 0770

DWG. NO.
A07766

SHT 3 OF 8

PRIVATE LABELING
REQUIREMENT TO
CONFORM TO
ENGINEERING
SPECIFICATION
6829103794 FOR
COMPONENTS LISTED

IN GDS500-05-035
DATE

	10-20-09
04	PATTERN NO.

Y	PATTERN NO.

ET	
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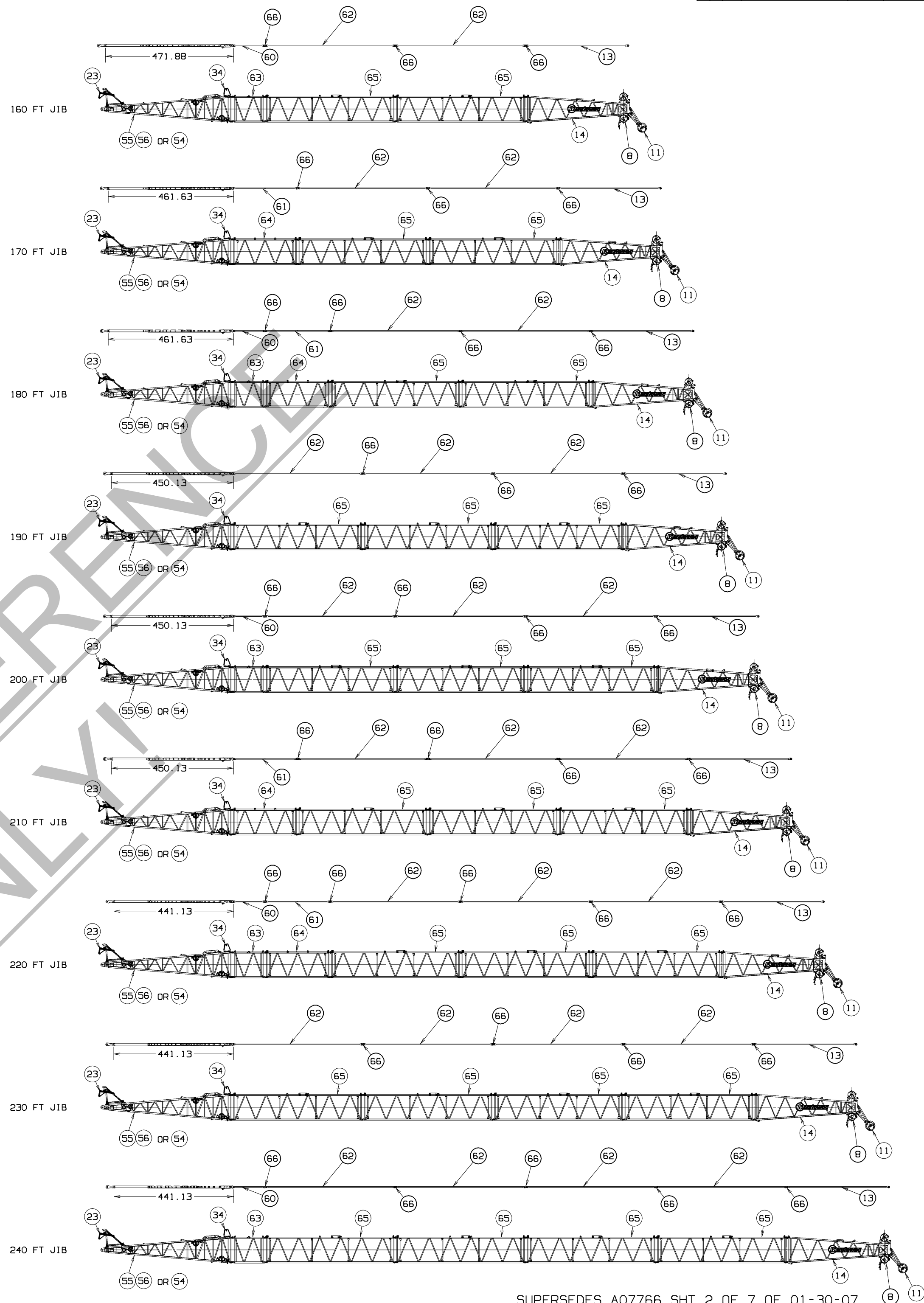
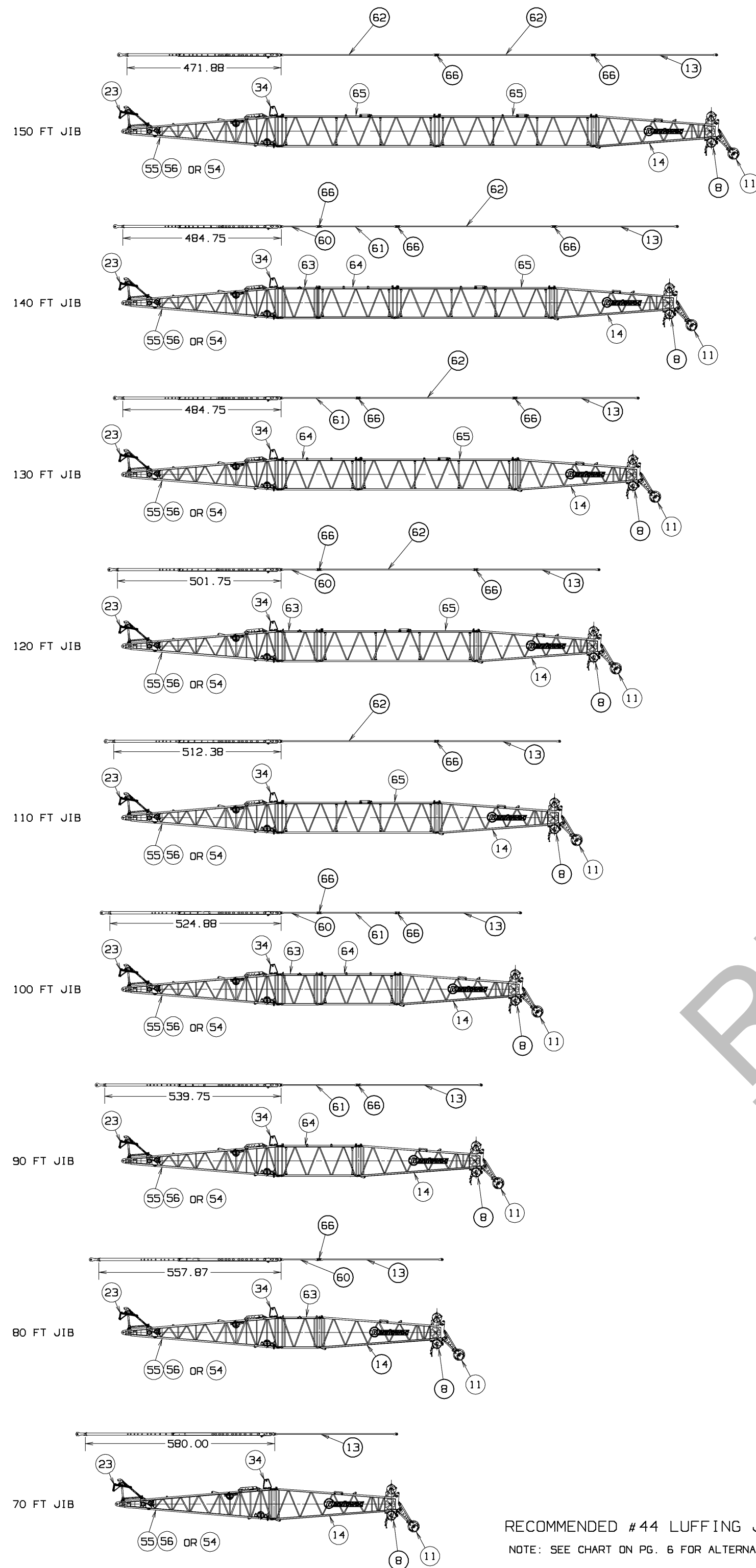
DRG. NO.
A07766

SHT 3 OF 8

DO NOT SCALE THIS DRAWING

SUPERSEDES A07766 SHT 3 OF 7 OF 01-30-07

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	SPECIAL PLACES		FABRICATION		MACHINING			DR JAS		#44 LUFFING JIB	
	IN ALL DIMENSIONS FROM FACE TO FACE							% FINISHING % MACHINING % WELDING % DRILLING		OK JAS	MODEL 18000
	(1) PLACE .000	.000	.000	.000	.000	.000	.000	AK PMP			
	(2) PLACE .000	.006	.012	.015	.015	.015					
	(3) PLACE .000	.000	.000	.000	.000	.000					
									#55/79A BOOM H/100 FT MAS		



RECOMMENDED #44 LUFFING JIB ASSEMBLY
NOTE: SEE CHART ON PG. 6 FOR ALTERNATE COMBINATIONS

SUPERSEDES A07766 SHT 2 OF 7 OF 01-30-07

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 DECIMAL PLACES (1) PLACE 0.0 1.12 1.18 1.05 (2) PLACE 0.00 1.06 1.12 1.015 (3) PLACE 0.000 1.005 1.005 1.005 ANGLES 11.25 11.25 11.25 11.25		FABRICATION MACHINING WELDING FINISHING TOLERANCE DECIMAL PLACES 1.0 0.015 0.005 0.005 11.25 11.25 11.25 11.25		DATE 12-12-07 BY JAS CHK JAS APP JMD		MANITOWOC CRANES, INC. Manitowoc, Wisconsin MODEL 18000 #44 LUFFING JIB #55/79A BOOM W/100 FT MAST		JIB LUFFING ASSEMBLY #44 LUFFING JIB #55/79A BOOM W/100 FT MAST	
--	--	---	--	---	--	---	--	--	--	---	--

BILL OF MATERIAL				ASSEMBLIES USED ON	
ITEM NO.	QTY	DESCRIPTION	LENGTH	MATERIAL	QTY
REVISIONS					
01-26-10 JAS UPDATED LUFFING JIB SIGN PICTURE					

SHT 2 OF 8

PRIVATE LABELING
REQUIREMENT TO
CONFORM TO
ENGINEERING
SPECIFICATION
6629103794 FOR
COMPONENTS LISTED
IN 662900-06-006