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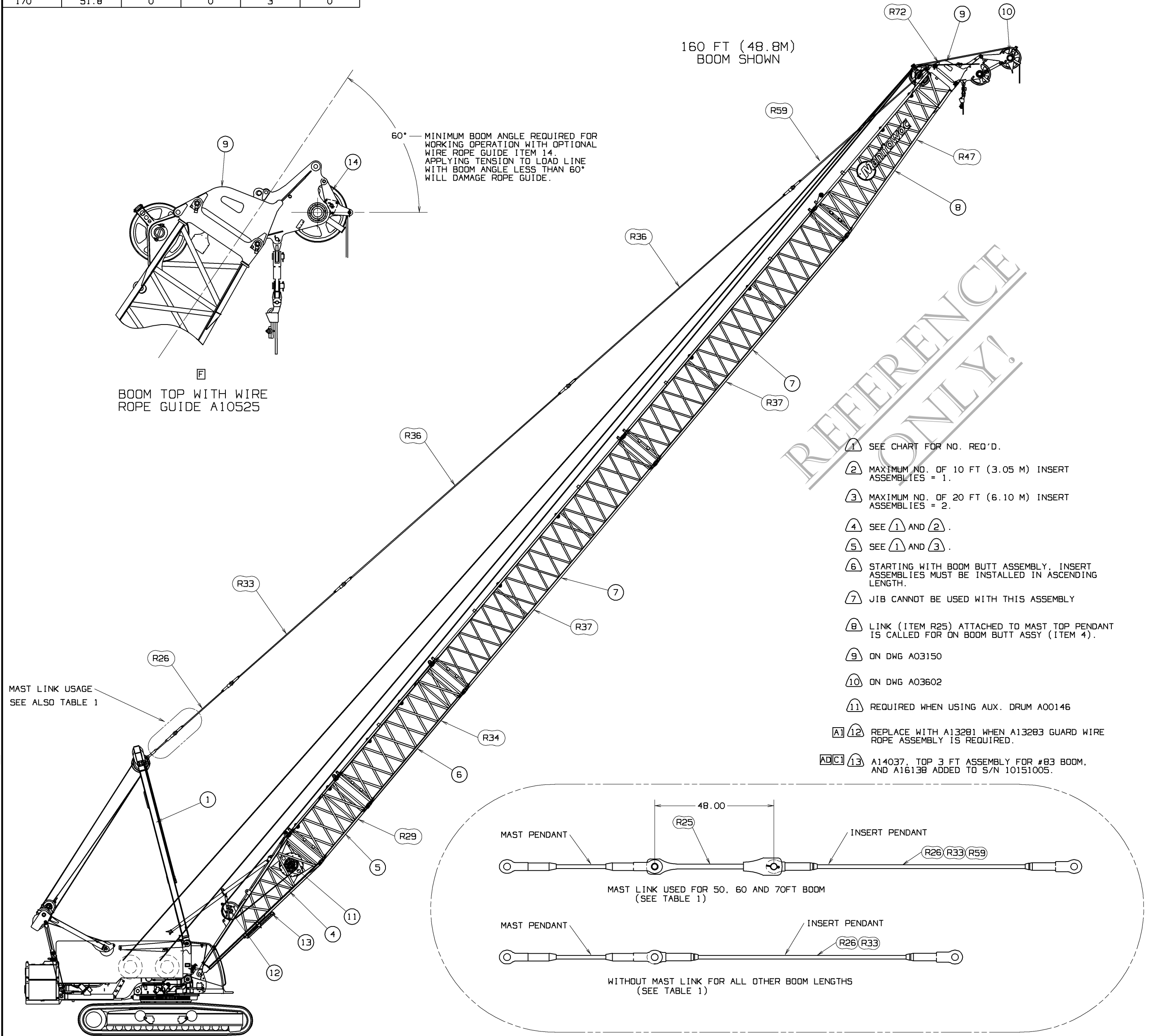
OPTION 5 (36mm WIRE ROPE)		
R85	1 STEEL WASHER .125	012535
R86	1 WEDGE 1.50 DIA ROPE	015828
R87	1 OPEN WEDGE SOCKET 1.50 DIA ROPE	015865
R88	1 CLIP 1.50 WIRE ROPE	349295
R89	2 SPACER TUBE 9.00 OD X 8.00 ID	A02829
R104	2 SHEAVE WIRE ROPE ASSY 36mm ROPE	A10350
5980-4000 OPTIONAL ASSEMBLY LIST		
10	1 UPPER BOOM POINT ASSEMBLY	A00145
11	1 DRUM SHAFT ASSEMBLY, AUXILIARY	A00146
12	1 GUIDE ASSEMBLY	A00968
13	1 BOOM SUPPORT ASSEMBLY	A00775
14	1 WIRE ROPE GUIDE ASSEMBLY	A10525
15	1 TOP 3 FT ASSY #83 W/36IN SHEAVES	A13281

OPTION 3 (32mm WIRE ROPE)		
R79	1 OPEN WEDGE SOCKET 1.25&1.375 DIA	165551
R80	1 WEDGE 1.25 DIA ROPE	165588
R81	1 PIN COTTER 1 HOLE W/HD 2.00 DIA	171214
R82	1 CLIP 1.25 WIRE ROPE	349233
R83	1 PIN COTTER .375 X 3.50	562151
R62	2 SHEAVE WIRE ROPE ASSY 1.25 ROPE	A00493
R84	1 LINK #83 BOOM 32 MM ROPE	A02773
R89	2 SPACER TUBE 9.00 OD X 8.00 ID	A02829
OPTION 4 (34mm WIRE ROPE)		
R79	1 OPEN WEDGE SOCKET 1.25&1.375 DIA	165551
R105	1 WEDGE 1.375 DIA ROPE	165550
R81	1 PIN COTTER 1 HOLE W/HD 2.00 DIA	171214
R106	1 CLIP 1.375 WIRE ROPE	349294
R83	1 PIN COTTER .375 X 3.50	562151
R84	1 LINK #83 BOOM 32 MM ROPE	A02773
R89	2 SPACER TUBE 9.00 OD X 8.00 ID	A02829
R103	2 SHEAVE WIRE ROPE ASSY 34mm ROPE	A10351

5980-2030 25 FT (7.62M) TRAN INSERT ASSY		
8	1 TRANSITION INSERT ASSEMBLY #83	A00143
R38	1 BEARING LOCKWASHER	225100
R39	2 BEARING LOCKNUT	A01427
R32	4 BOLT CARRIAGE .625	244134
R40	20 SCREW MACHINE 5/16-18 X 1-1/4	254555
R41	20 NUT HEX .3125-18 ZC	546053
R5	8 NUT HEX .625-11	546058
R42	4 NUT HEX JAM 2-12	546281
R27	4 PIN COTTER .250 X 1.50	562105
R43	4 PIN COTTER .250 X 1.75	562108
R28	8 PIN COTTER .375 X 4.00	562152
R8	4 PIN COTTER .500 X 4.00	562172
R9	2 PIN SNAP .25 DIA X 1.75	563823
R44	4 SCREW CAP HEX HEAD .625	612691
R45	8 SCREW CAP HEX HEAD .875	613947
R46	20 WASHER LOCK .3125	710303
R17	4 WASHER LOCK .625	710307
R47	1 INSERT TRANSITION 25 FT #83	A00144
R30	4 PIN COTTER 2 HOLE 2.75 DIA X 7.75	A00158
R48	1 GUARD WIRE ROPE	A00490
R49	1 SLEEVE 9.00 OD X 6.25 ID	A00491
R50	1 SHAFT 6.75 OD X 4.75 ID X 30.00	A00494
R51	4 LOCK PLATE	A00495
R52	4 SLEEVE TAPER PIN	A00496
R53	4 CLAMP	A00497
R54	4 PIN THREADED 3.50 DIA X 6.88	A00498
R55	1 PIN 2 HOLE 1.00 OD X 11.00	A00523
R56	2 PIN 2 HOLE .75 DIA X 6.50	A00524
R57	1 TIMBER 4.00 X 3.00 X 68.00	A00525
R58	4 PLATE KEEPER .50 THK	A00526
R59	2 PENDANT	A01867
R60	2 PIN COTTER 2 HOLE 2.75 DIA X 7.25	A02141
R61	2 SIGN BOOM MANITOWOC	B1008829
R31	2 PIN COTTER 2 HOLE .75 DIA X 10.25	A02757
R90	4 NUT LOCK NE 0.625-11	548345
R91	4 WASHER FLAT 0.625,0.108 ZC	709480
5980-2040 OPTION 1 (32mm WIRE ROPE)		
R62	2 SHEAVE WIRE ROPE ASSY 1.25 ROPE	A00493
R89	2 SPACER TUBE 9.00 OD X 8.00 ID	A02829
5980-2050 OPTION 2 (32mm WIRE ROPE)		
R64	1 SHEAVE WIRE ROPE ASSY 1.25 ROPE	631524
R62	2 SHEAVE WIRE ROPE ASSY 1.25 ROPE	A00493
5980-2060 OPTION 3 (38mm WIRE ROPE)		
R65	2 SHEAVE WIRE ROPE ASSY 1.50 ROPE	A00492
R89	2 SPACER TUBE 9.00 OD X 8.00 ID	A02829
5980-2070 OPTION 4 (38mm WIRE ROPE)		
R64	1 SHEAVE WIRE ROPE ASSY 1.25 ROPE	631524
R65	2 SHEAVE WIRE ROPE ASSY 1.50 ROPE	A00492
OPTION 5 (34mm WIRE ROPE)		
R89	2 SPACER TUBE 9.00 OD X 8.00 ID	A02829
R103	2 SHEAVE WIRE ROPE ASSY 34mm ROPE	A10351
OPTION 6 (34mm WIRE ROPE)		
R64	1 SHEAVE WIRE ROPE ASSY 1.25 ROPE	631524
R103	2 SHEAVE WIRE ROPE ASSY 34mm ROPE	A10351
OPTION 7 (36mm WIRE ROPE)		
R89	2 SPACER TUBE 9.00 OD X 8.00 ID	A02829
R104	2 SHEAVE WIRE ROPE ASSY 36mm ROPE	A10350
OPTION 8 (36mm WIRE ROPE)		
R64	1 SHEAVE WIRE ROPE ASSY 1.25 ROPE	631524
R104	2 SHEAVE WIRE ROPE ASSY 36mm ROPE	A10350
OPTION 9 (TIMBERS FOR DUTY CYCLE)		
R98	4 TIMBER	193273
R99	16 NUT LOCK NE .4375-14	548352
R100	16 WASHER FLAT .4375	709746
R101	16 SCREW CAP HEX HEAD .4375	A10539
R102	8 CLAMP TUBE 2.75	A10540

5980-3000 3 FT (0.91M) TOP ASSEMBLY		
9	1 TOP 3 FT ASSEMBLY	A00141
R66	1 PIN COTTER 1 HOLE W/HD 3.00 DIA	163064
R38	1 BEARING LOCKWASHER	225100
R39	2 BEARING LOCKNUT	225101
R67	1 PIN COTTER .50 X 4.50	562174
R83	4 PIN COTTER .375 X 3.50	562151
R69	1 PIN HITCH .375 DIA	563822
R70	4 SCREW CAP HEX HEAD .875	612768
R71	4 WASHER LOCK .875	710309
R72	1 TOP 3FT MACHINING	A01814
R73	2 PIN COTTER 2 HOLE 2.00 DIA	A02145
R74	1 SHAFT 8.00 DIA X 34.88	A02146
R75	2 SPACER TUBE 8.755 OD X 8.00 ID	A02738
R76	2 PLATE KEEPER .625 THK	A02739
R77	1 PIN COTTER 1 HOLE W/HD 2.28 DIA	A02766
R78	1 LINK #83 BOOM 38 MM ROPE	A02772
5980-3010 OPTION 1 (32mm WIRE ROPE)		
R79	1 OPEN WEDGE SOCKET 1.25&1.375 DIA	165551
R80	1 WEDGE 1.50 DIA ROPE	165588
R81	1 PIN COTTER 1 HOLE W/HD 2.00 DIA	171214
R82	1 CLIP 1.25 WIRE ROPE	349233
R83	1 PIN COTTER .375 X 3.50	562151
R62	3 SHEAVE WIRE ROPE ASSY 1.25 ROPE	A00493
R84	1 LINK #83 BOOM 32 MM ROPE	A02773
5980-3020 OPTION 2 (38mm WIRE ROPE)		
R85	1 STEEL WASHER .125	012535
R86	1 WEDGE 1.50 DIA ROPE	015828
R87	1 OPEN WEDGE SOCKET 1.50 DIA ROPE	015865
R88	1 CLIP 1.50 WIRE ROPE	349295
R65	2 SHEAVE WIRE ROPE ASSY 1.50 ROPE	A00492
R89	2 SPACER TUBE 9.00 OD X 8.00 ID	A02829

BILL OF MATERIAL					ASSEMBLIES USED ON
ITEM NO	QTY	DESCRIPTION	MATERIAL		
5980-0000 BOOM RIGGING ASSEMBLY					
1	1	MAST ASSEMBLY	A00009		
2					
3					
5980-1000 BOOM BUTT ASSEMBLY					
4	1	BUTT 22 FT ASSEMBLY BOOM	A00139	REVISIONS 02-19-04 RV A WAS A00131 B1 ADDED 40 FT INSERT OPTION. 02-20-04 RV C1 WAS A00132 05-06-04 RV D1 ADDED A10525 E1 ADDED VIEW 06-02-04 RV F1 ADDED A08027 G1 ADDED A08032 H1 ADDED A00139 I1 OPTION 1 J1 ADDED A00135 K1 ADDED A00133 L1 OPTION 1 M1 ADDED A10123 N1 OPTION 1 O1 WAS 225101 P1 WAS A02142 Q1 WAS A02142 R1 WAS A02142 S1 WAS A02142 T1 ADDED A00143 U1 ADDED A00143 V1 OPTION 5 W1 ADDED A00141 X1 ADDED A00141 Y1 ADDED A00141 Z1 OPTION 5 AA1 WAS R68 (563803) 03-21-05 JVE ADDED NOTE B1 ADDED A1328 05-07-05 KJB ADDED NOTE 05-13-06 JVE AD1 MODIFIED NOTE 06-10-10 JAS UPDATED BOOM SIGN	
R1	2	PIN COTTER 2 HOLE 2.75 DIA X 6.50	167075		
R2	1	BOOM ANGLE INDICATOR ASSY	168779		
R3	2	PIN COTTER 1 HOLE W/HD	172415		
R4	7	NUT HEX .375	546054		
R5	16	NUT HEX .625	546058		
R6	2	NUT LOCK NE .5-13	548344		
R7	2	PAD BEARING 3.00 X 3.00 X 1.00	554175		
R8	8	PIN COTTER .50 X 4.00	562172		
R9	2	PIN SNAP .25 DIA	563823		
R10	4	SCREW CAP HEX HEAD .375	612454		
R11	14	SCREW CAP HEX HEAD .625	612661		
R12	2	SCREW CAP HEX HEAD .625	612663		
R13	2	SCREW CAP SOCKET FLAT HEAD	614003		
R14	4	WASHER FLAT .375	709703		
R15	16	WASHER FLAT .625	709747		
R16	7	WASHER LOCK .375	710304		
R17	16	WASHER LOCK .625	710307		
R18	3	SCREW CAP SOCKET BUTTON HEAD .375	970491		
R19	1	BUTT 22 FT #83 BOOM	A00140		
R20	2	BOOM STOP ASSEMBLY #83 BOOM	A00149		
R21	1	LACING REMOVABLE	A00796		
R22	1	FLOOR ASSEMBLY RIGHT PANEL	A00853		
R23	1	FLOOR ASSEMBLY TOP PANEL	A00854		
R24	1	FLOOR ASSEMBLY LEFT PANEL	A00855		
R25	2	LINK	A03459		
R92	2	LINK BOOM HANDLING	A08027		
R93	2	PIN COTTER 2 HOLE 2.75 DIA X 3.75	A08032		
OPTION 1 (WIRE ROPE GUARD)					
R94	4	BOLT CARRIAGE .625-11	244136		
R5	8	NUT HEX .625	546058		
R12	4	SCREW CAP HEX HEAD .625	612663		
R15	8	WASHER FLAT .625	709747		
R17	8	WASHER LOCK .625	710307		
R95	2	GUARD WIRE ROPE ASSEMBLY	A08064		
R96	1	TIMBER	A08174		
R97	2	PLATE .25	A08188		
5980-2000 10 FT (3.05M) INSERT ASSEMBLY					
5		INSERT 10 FT ASSEMBLY #83	A00135		
R26	2	PENDANT	277382		
R27	4	PIN COTTER .25 X 1.50	562105		
R28	8	PIN COTTER .375 X 4.00	562152		
R29	1	INSERT 10FT #83	A00136		
R30	4	PIN 2 HOLE 2.75 DIA X 7.75	A00158		
R31	2	PIN 2 HOLE .75 DIA X 10.25	A02757		
OPTION 1 (TIMBERS FOR DUTY CYCLE)					
R98	2	TIMBER	193273		
R99	8	NUT LOCK NE .4375-14	548352		
R100	16	WASHER FLAT .4375	709746	06-10-10 JAS UPDATED BOOM SIGN	
R101	8	SCREW CAP HEX HEAD .4375	A10539		
R102	4	CLAMP TUBE 2.75	A10540		
5980-2010 20 FT (6.10M) INSERT ASSEMBLY					
6		INSERT 20 FT ASSEMBLY #83	A00133		
R32	4	BOLT CARRIAGE .625-11	244134		
R33	2	PENDANT	277383		
R90	4	NUT LOCK NE 0.625-11	548345		
R27	4	PIN COTTER .250 X 1.50	562105		
R28	8	PIN COTTER .375 X 4.00	562152		
R91	4	WASHER FLAT 0.625,0.108 ZC	709480		
R34	1	INSERT 20FT. #83	A00134		
R30	4	PIN COTTER 2 HOLE 2.75 X 7.75	A00158		
R35	1	TIMBER 4.00 X 3.0 X 75.00 LG	A00194		
R31	2	PIN 2 HOLE .75 DIA X 10.25 LG	A02757		
OPTION 1 (TIMBERS FOR DUTY CYCLE)					
R98	3	TIMBER	193273		
R99	12	NUT LOCK NE .4375-14	548352		
R100	24	WASHER FLAT .4375	709746		
R101	12	SCREW CAP HEX HEAD .4375	A10539		
R102	6	CLAMP TUBE 2.75	A10540		
40 FT (12.19M) INSERT ASSY					
7		INSERT 40 FT ASSEMBLY #83 HEAVY	A10123		
R32	8	BOLT CARRIAGE .625-11	244134		
R36	2	PENDANT	277384		
R90	8	NUT LOCK NE 0.625-11	548345		
R27	8	PIN COTTER .250 X 1.50	562105		
R28	8	PIN COTTER .375 X 4.00	562152		
R91	8	WASHER FLAT 0.625,0.108 ZC	709480		
R37	1	INSERT 40FT #83 HEAVY	A10124		
R30	4	PIN COTTER 2 HOLE 2.75 X 7.75	A00158		
R35	2	TIMBER 4.00 X 3.00 X 75.00 LG	A00194		
R31	4	PIN 2 HOLE .75 DIA X 10.25 LG	A02757		
OPTION 1 (TIMBERS FOR DUTY CYCLE)					
R98	7	TIMBER	193273		
R99	28	NUT LOCK NE .4375-14	548352		
R100	56	WASHER FLAT .4375	709746		
R101	28	SCREW CAP HEX HEAD .4375	A10539		
R102	14	CLAMP TUBE 2.75	A10540		
PRIVATE LABELING REQUIREMENT TO CONFORM TO ENGINEERING SPECIFICATION 6629103794 FOR COMPONENTS LISTED IN GD5000-05-035					
11-20-02					
PATTERN NO.				A06546	
BOOM ASSEMBLY					
DUTY CYCLE RIGGING					
#83 BOOM					



REVISIONS
06-02-04 RV
A) REPOSITIONED
BOOM HANDLING
PENDANT ON
BOOM BUTT.
06-10-10 JAS
UPDATED BOOM
SIGN

DWG. NO.
A06546
SHT 3 OF 3

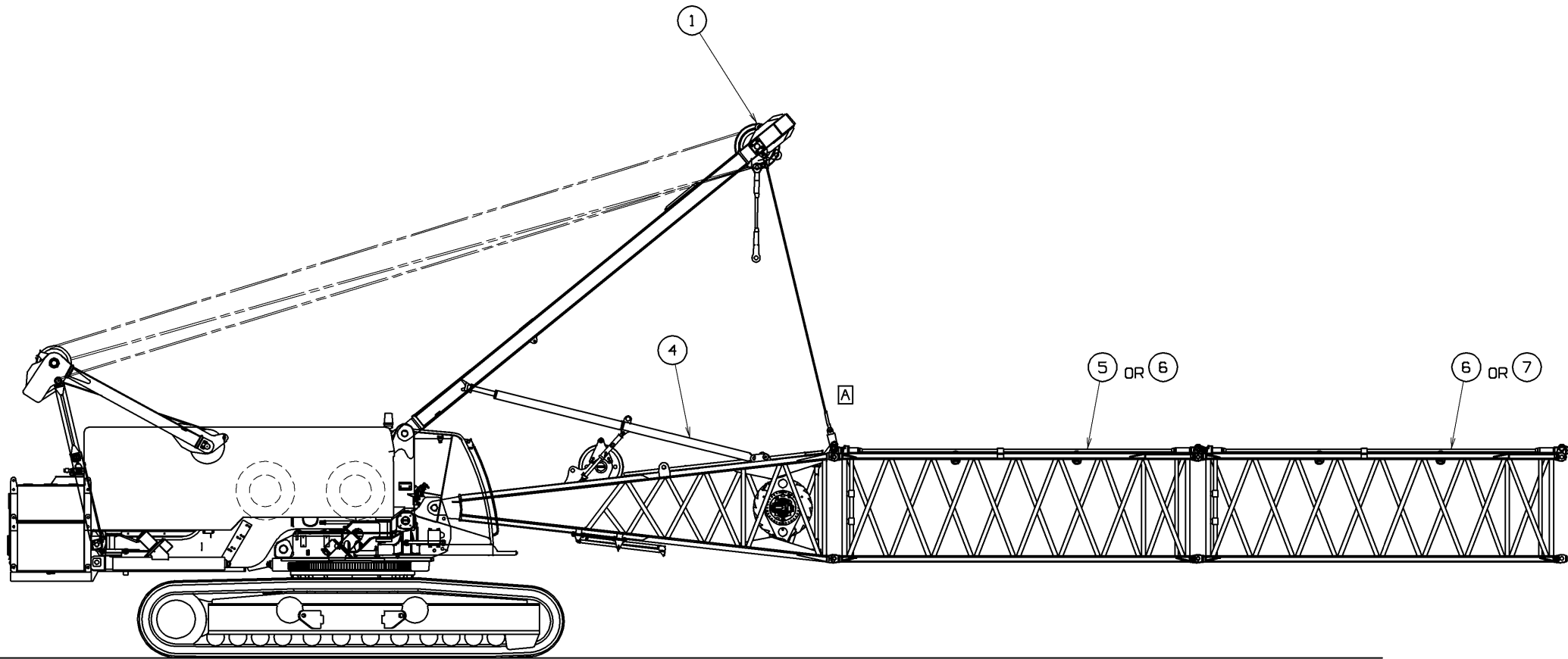
PRIVATE LABELING
REQUIREMENT TO
CONFORM TO
ENGINEERING
SPECIFICATION
6629103794 FOR
COMPONENTS LISTED
IN 605200-06-026

DATE
11-20-02
PATTERN NO.

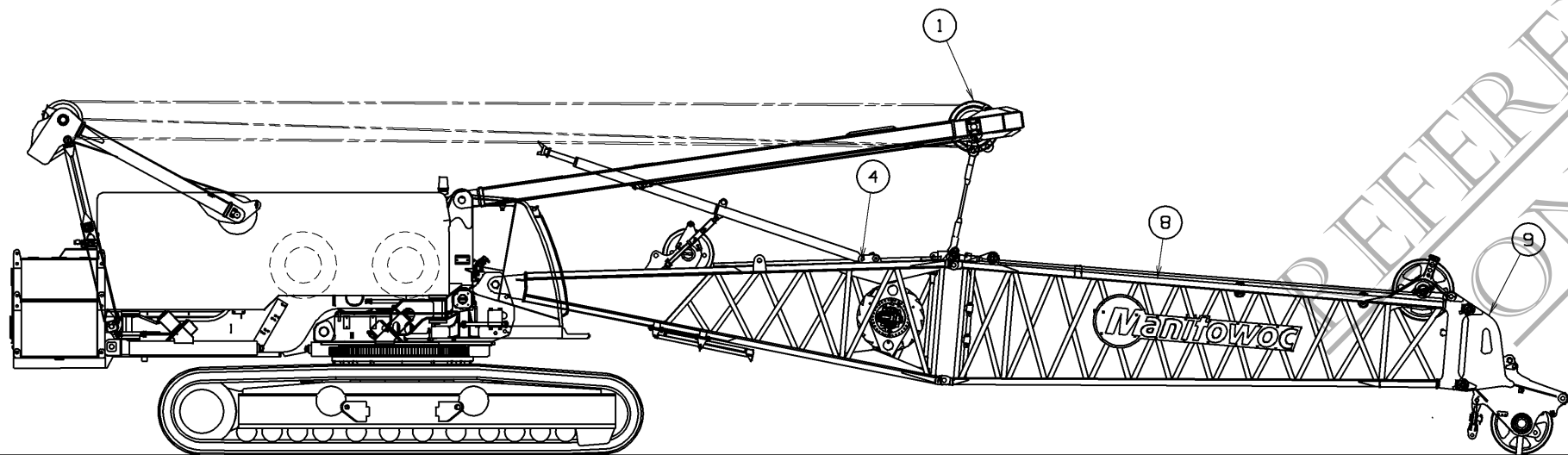
DWG. NO.
A06546

SHT 3 OF 3

BOOM HANDLING WITH MAST WITH MAST PENDANT ATTACHED TO BOOM MAXIMUM BOOM THAT CAN BE CANTILEVERED IS AS FOLLOWS:			
LENGTH	10 FT. (3.05 M) INSERT	20 FT. (6.10 M) INSERT	40 FT. (12.2 M) INSERT
40 FT. (12.2 M)	0	0	1
50 FT. (15.2 M)	1	0	1
60 FT. (18.3 M)	0	1	1
70 FT. (21.3 M)	1	1	1
80 FT. (24.4 M)	0	0	2



BOOM HANDLING WITH MAST



CONNECTING OR DISCONNECTING
MAST AND INSERT PENDANTS