

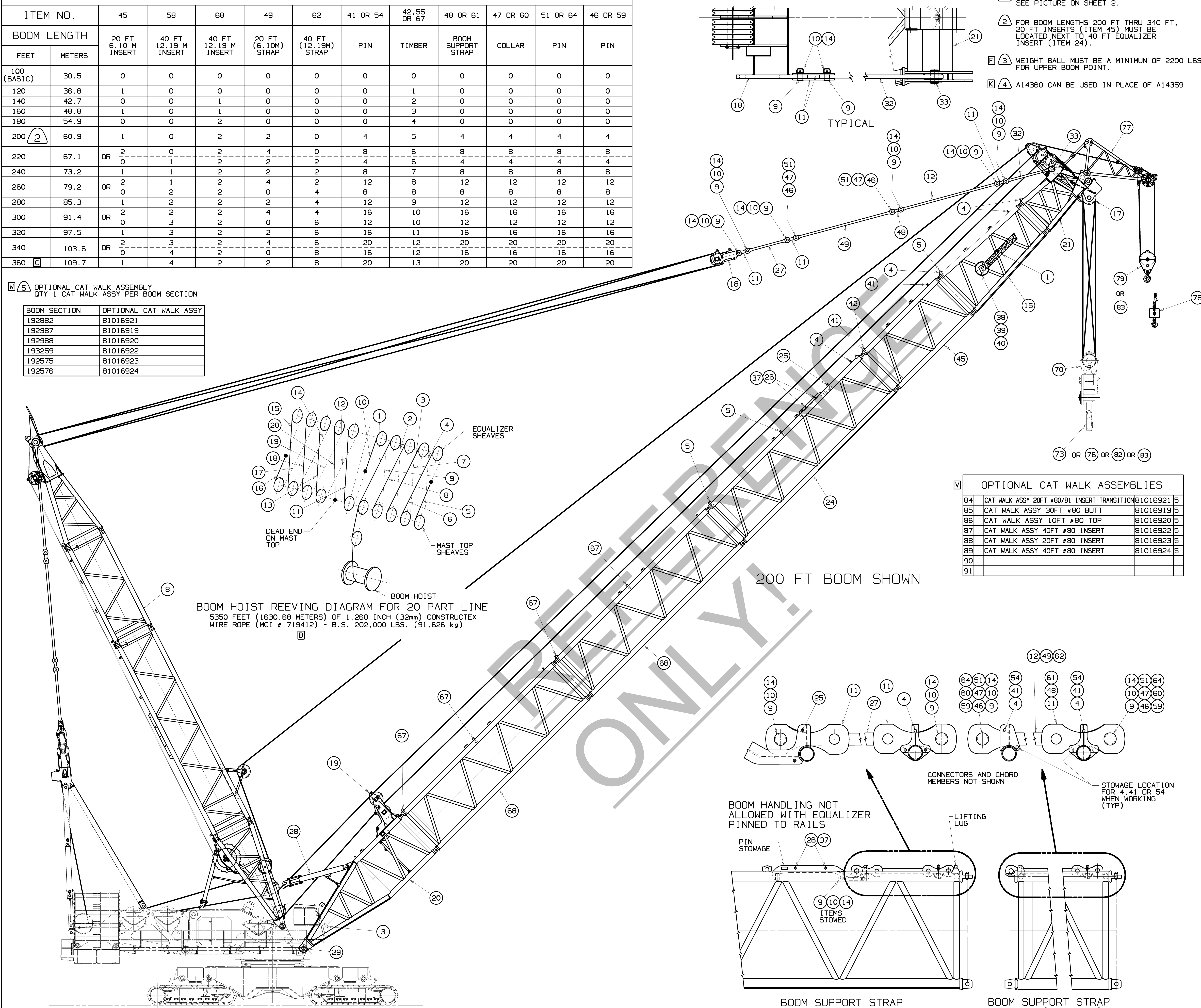
ADDITIONAL PARTS REQUIRED FOR VARIOUS BOOM LENGTHS

ITEM NO.	45	58	68	49	62	41 OR 54	42.55 OR 67	48 OR 61	47 OR 60	51 OR 64	46 OR 59
BOOM LENGTH	20 FT 6.10 M INSERT	40 FT 12.19 M INSERT	40 FT 12.19 M INSERT	20 FT (6.10M) STRAP	40 FT (12.19M) STRAP	PIN	TIMBER	BOOM SUPPORT STRAP	COLLAR	PIN	PIN
100 (BASIC)	30.5	0	0	0	0	0	0	0	0	0	0
120	36.8	1	0	0	0	0	1	0	0	0	0
140	42.7	0	0	1	0	0	2	0	0	0	0
160	48.8	1	0	1	0	0	3	0	0	0	0
180	54.9	0	0	2	0	0	4	0	0	0	0
200 (2)	60.9	1	0	2	2	4	5	4	4	4	4
220	67.1	OR 2	0	2	4	8	6	8	8	8	8
240	73.2	1	1	2	2	8	7	8	8	8	8
260	79.2	OR 2	1	2	4	12	8	12	12	12	12
280	85.3	1	2	2	2	12	9	12	12	12	12
300	91.4	OR 2	2	2	4	16	10	16	16	16	16
320	97.5	1	3	2	2	16	11	16	16	16	16
340	103.6	OR 2	3	2	4	20	12	20	20	20	20
360 (C)	109.7	1	4	2	2	20	13	20	20	20	20

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

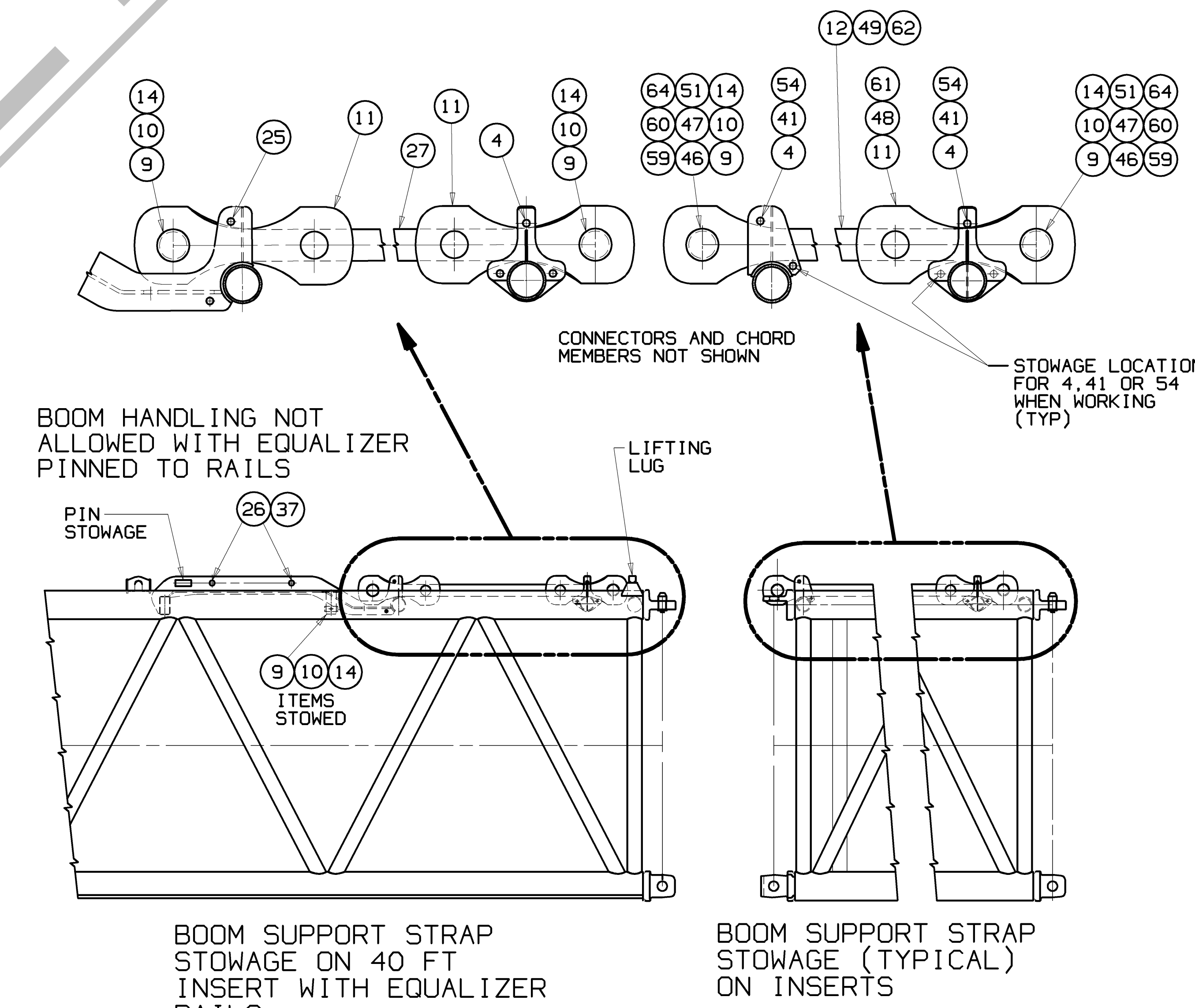
BOOM SECTION	OPTIONAL CAT WALK ASSY
192882	81016921
192987	81016919
192988	81016920
193259	81016922
192575	81016923
192576	81016924

BOOM HOIST REEVING DIAGRAM FOR 20 PART LINE
5350 FEET (1630.68 METERS) OF 1.260 INCH (32mm) CONSTRUCTEX WIRE ROPE (MCI # 719412) - B.S. 202,000 LBS. (91,626 kg)



- 32mm DIA ROPE (1.26 DIA) SEE PICTURE ON SHEET 2.
- FOR BOOM LENGTHS 200 FT THRU 340 FT. 20 FT INSERTS (ITEM 45) MUST BE LOCATED NEXT TO 40 FT EQUALIZER INSERT (ITEM 24).
- WEIGHT BALL MUST BE A MINIMUM OF 2200 LBS. FOR UPPER BOOM POINT.
- A14360 CAN BE USED IN PLACE OF A14359

OPTIONAL CAT WALK ASSEMBLIES			
84	CAT WALK ASSY 20FT #80/81 INSERT TRANSITION	81016921	5
85	CAT WALK ASSY 30FT #80 BUTT	81016919	5
86	CAT WALK ASSY 10FT #80 TOP	81016920	5
87	CAT WALK ASSY 40FT #80 INSERT	81016922	5
88	CAT WALK ASSY 20FT #80 INSERT	81016923	5
89	CAT WALK ASSY 40FT #80 INSERT	81016924	5
90			
91			



BILL OF MATERIAL				ASSEMBLIES USED ON
ITEM NO.	DESCRIPTION	QUANTITY	MATERIAL	QTY
9980-0000 BASIC BOOM 100 FT (30.5M)				
1	SIGN BOOM MANITOWOC	1	81008829	
2				
3	BOOM ANGLE INDICATOR ASSEMBLY	1	168779	
4	PIN	1	175160	
5	TIMBER	1	178905	
6				
7				
8	MAST ASSEMBLY	1	192588	
9	PIN	1	192595	
10	COLLAR	1	192596	
11	BOOM SUPPORT STRAP - 1FT 8.00	1	192597	
12	BOOM SUPPORT STRAP - 20FT 0.00	1	192598	
13				
14	PIN	1	192603	
15	20 FT TAPERED INSERT	1	192882	
16				
17	BOOM POINT ASSEMBLY	1	192968	
18	EQUALIZER ASSEMBLY	1	192970	
19	WIRE ROPE GUIDE ASSEMBLY - BOOM BUTT	1	192971	
20	30 FT BOOM BUTT	1	192987	
21	10 FT BOOM TOP	1	192988	
22				
23				
24	40 FT INSERT W/EQUALIZER RAILS	1	193259	
25	PIN	1	193276	
26	PIN	1	193277	
27	BOOM SUPPORT STRAP - 7 FT 6.88	1	193278	
28	BOOM STOP ASSEMBLY	1	193409	
29	PIN PULLER ASSEMBLY	1	193481	
30				
31				
32	BOOM SUPPORT STRAP - BASIC	1	193543	
33	PIN	1	193551	
34	SNAP PIN	1	563803	
35	3/8" X 30" ZINC PLT	1	7121171301	
36	NUT HEX M8-1.25 10 PLN	1	7661170004	
37	WASHER LOCK M8	1	7951170210	
9980-0010 20 FT INSERT (6.10M)				
41	PIN	1	175160	
42	TIMBER	1	178905	
43				
44				
45	20 FT INSERT	1	192575	
46	PIN	1	192595	
47	COLLAR	1	192596	
48	BOOM SUPPORT STRAP - 1FT 8.00	1	192597	
49	BOOM SUPPORT STRAP - 20FT 0.00	1	192598	
50				
51	PIN	1	192603	
9980-0020 40 FT INSERT (12.19M)				
54	PIN	1	175160	
55	TIMBER	1	178905	
56				
57				
58	40 FT INSERT	1	192576	
59	PIN	1	192595	
60	COLLAR	1	192596	
61	BOOM SUPPORT STRAP - 1FT 8.00	1	192597	
62	BOOM SUPPORT STRAP - 40FT 0.00	1	192599	
63				
64	PIN	1	192603	
9980-0030 40 FT INSERT (12.19M)				
67	TIMBER	1	178905	
68	40 FT INSERT	1	192576	
69				
OPTIONAL PARTS				
9980-0040 600T BLOCK W/O HOOK				
70	600T BLOCK ASSEMBLY W/O HOOK	1	236496	
71				
9980-0050 600T HOOK ASSEMBLY				
73	600T HOOK ASSEMBLY	1	236497	
74				
9980-0060 1000T HOOK ASSEMBLY				
76	1000T HOOK ASSEMBLY	1	236498	
9990-0070 UPPER BOOM POINT ASSEM				
77	UPPER BOOM POINT ASSEMBLY	1	193871	
9980-0070 UPPER BOOM POINT SINGLE PART LINE				
78	30T HOOK ASSEMBLY	3	A00816	
9990-0080 UPPER BOOM POINT TWO PART LINE				
79	45T HOOK ASSEMBLY	3	236503	
9990-0090 RIGGING WINCH ASSEMBLY				
80	RIGGING WINCH ASSEMBLY	1	A14234	
BOOM ASSEMBLY LADDER STORAGE				
81	BOOM ASSEMBLY LADDER STORAGE	1	A14359	
BLOCK OPTIONS				
82	BLOCK 275 TON	1	81007019	
83	BLOCK 60 TON	1	81007021	
PRIVATE LABELING REQUIREMENT TO CONFORM TO SPECIFICATION 8829103794 FOR COMPONENTS LISTED IN 8829103794				
DATE 2-26-99				
PATTERN NO.				
Manitowoc Cranes, Inc.				
#80 BOOM RIGGING				
ASSEMBLY				
W/100 FT #81 MAST				
DATE 192587				

TOLERANCE UNLESS OTHERWISE SPECIFIED			
DECIMAL PLACES	FABRICATION	MACHINING	WELDING
(1) PLACE 0.0	± .12	± .10	± .05
(2) PLACE 0.00	± .06	± .05	± .02
(3) PLACE 0.000	± .005	± .005	± .005
ANGLES	± .5°	± .5°	± .5°

DO NOT SCALE THIS DRAWING

