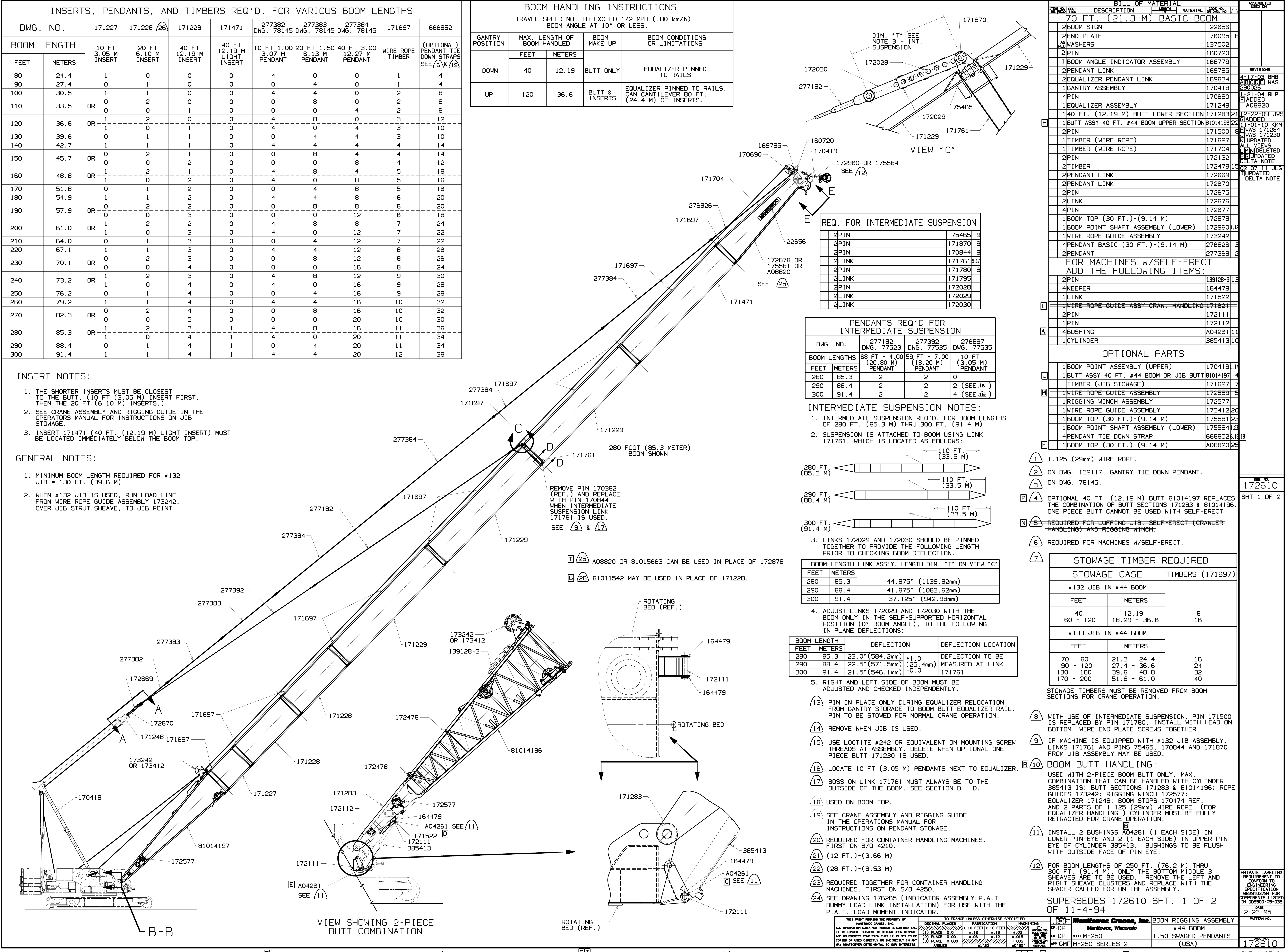


INSERTS, PENDANTS, AND TIMBERS REQ'D. FOR VARIOUS BOOM LENGTHS										
DWG. NO.		171227	171228 ⁽²⁶⁾	171229	171471	277382 DWG. 78145	277383 DWG. 78145	277384 DWG. 78145	171697	666852
BOOM LENGTH		10 FT 3.05 M INSERT	20 FT 6.10 M INSERT	40 FT 12.19 M INSERT	40 FT 12.19 M LIGHT INSERT	10 FT 1.00 3.07 M PENDANT	20 FT 1.50 6.13 M PENDANT	40 FT 3.00 12.27 M PENDANT	WIRE ROPE TIMBER	(OPTIONAL) PENDANT TIE DOWN STRAPS SEE ⁽⁶⁾ & ⁽¹⁹⁾
FEET	METERS									
80	24.4	1	0	0	0	4	0	0	1	4
90	27.4	0	1	0	0	0	4	0	1	4
100	30.5	1	1	0	0	4	4	0	2	8
110	33.5	OR 0	2	0	0	0	8	0	2	8
		0	0	1	0	0	0	4	2	6
120	36.6	OR 1	2	0	0	4	8	0	3	12
		1	0	1	0	4	0	4	3	10
130	39.6	0	1	1	0	0	4	4	3	10
140	42.7	1	1	1	0	4	4	4	4	14
150	45.7	OR 0	2	1	0	0	8	4	4	14
		0	0	2	0	0	0	8	4	12
160	48.8	OR 1	2	1	0	4	8	4	5	18
		1	0	2	0	4	0	8	5	16
170	51.8	0	1	2	0	0	4	8	5	16
180	54.9	1	1	2	0	4	4	8	6	20
190	57.9	OR 0	2	2	0	0	8	8	6	20
		0	0	3	0	0	0	12	6	18
200	61.0	OR 1	2	2	0	4	8	8	7	24
		1	0	3	0	4	0	12	7	22
210	64.0	0	1	3	0	0	4	12	7	22
220	67.1	1	1	3	0	4	4	12	8	26
230	70.1	OR 0	2	3	0	0	8	12	8	26
		0	0	4	0	0	0	16	8	24
240	73.2	OR 1	2	3	0	4	8	12	9	30
		1	0	4	0	4	0	16	9	28
250	76.2	0	1	4	0	0	4	16	9	28
260	79.2	1	1	4	0	4	4	16	10	32
270	82.3	OR 0	2	4	0	0	8	16	10	32
		0	0	5	0	0	0	20	10	30
280	85.3	OR 1	2	3	1	4	8	16	11	36
		1	0	4	1	4	0	20	11	34
290	88.4	0	1	4	1	0	4	20	11	34
300	91.4	1	1	4	1	4	4	20	12	38

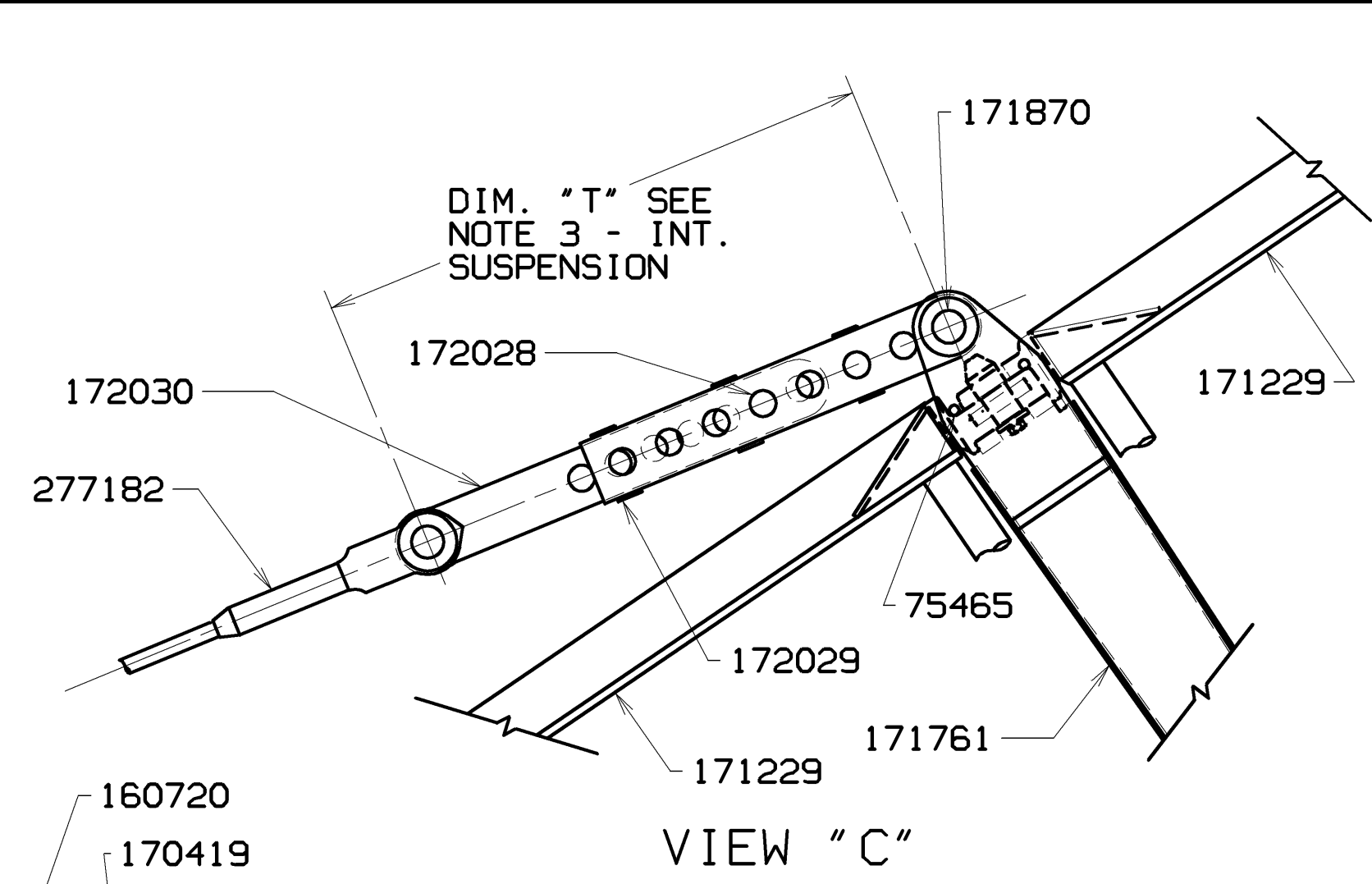
- INSERT NOTES:
- THE SHORTER INSERTS MUST BE CLOSEST TO THE BUTT. (10 FT (3.05 M) INSERT FIRST, THEN THE 20 FT (6.10 M) INSERTS.)
 - SEE CRANE ASSEMBLY AND RIGGING GUIDE IN THE OPERATORS MANUAL FOR INSTRUCTIONS ON JIB STOWAGE.
 - INSERT 171471 (40 FT. (12.19 M) LIGHT INSERT) MUST BE LOCATED IMMEDIATELY BELOW THE BOOM TOP.

GENERAL NOTES:

- MINIMUM BOOM LENGTH REQUIRED FOR #132 JIB = 130 FT. (39.6 M)
- WHEN #132 JIB IS USED, RUN LOAD LINE FROM WIRE ROPE GUIDE ASSEMBLY 173242, OVER JIB STRUT SHEAVE, TO JIB POINT.



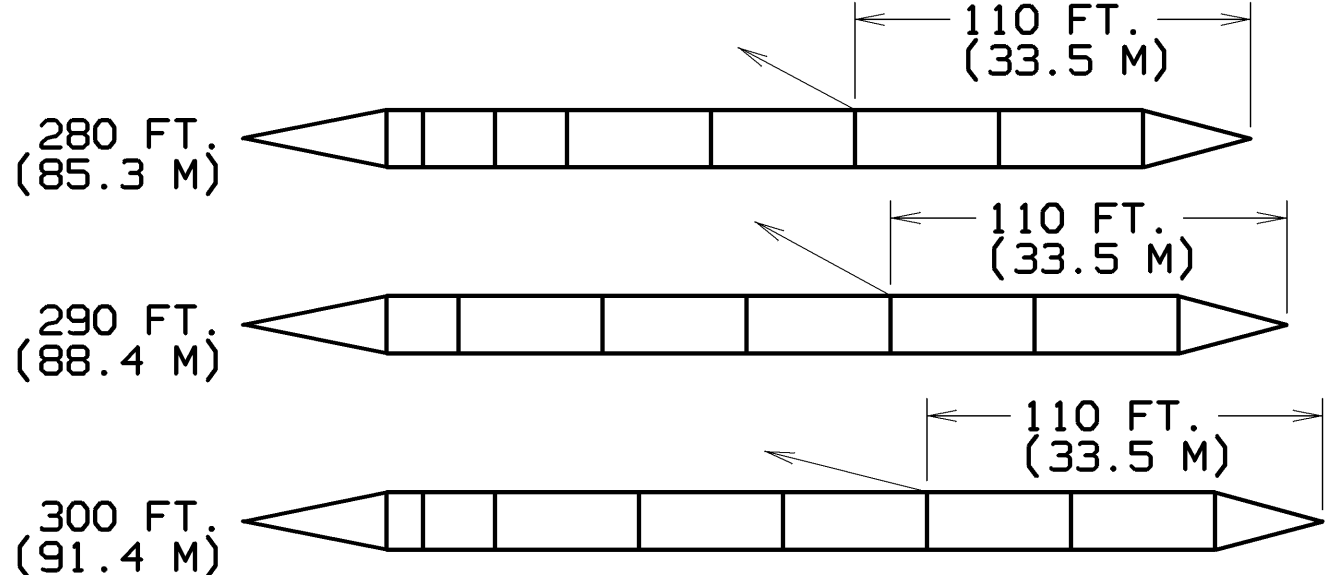
BOOM HANDLING INSTRUCTIONS			
TRAVEL SPEED NOT TO EXCEED 1/2 MPH (.80 km/h) BOOM ANGLE AT 10° OR LESS.			
GANTRY POSITION	MAX. LENGTH OF BOOM HANDLED		BOOM CONDITIONS OR LIMITATIONS
	FEET	METERS	
DOWN	40	12.19	BUTT ONLY EQUALIZER PINNED TO RAILS
UP	120	36.6	BUTT & INSERTS EQUALIZER PINNED TO RAILS. CAN CANTILEVER 80 FT. (24.4 M) OF INSERTS.



REQ. FOR INTERMEDIATE SUSPENSION	
2PIN	75465 9
2PIN	171870 9
2PIN	170844 9
2LINK	171761 17
2PIN	171780 8
2LINK	171795
2PIN	172028
2LINK	172029
2LINK	172030

PENDANTS REQ'D FOR INTERMEDIATE SUSPENSION				
DWG. NO.	277182 DWG. 77523	277392 DWG. 77535	276897 DWG. 77535	
BOOM LENGTHS	68 FT - 4.00 (20.80 M) PENDANT	59 FT - 7.00 (18.20 M) PENDANT	10 FT (3.05 M) PENDANT	
FEET	280 85.3	2	2	0
290	88.4	2	2	2 (SEE 16)
300	91.4	2	2	4 (SEE 16)

- INTERMEDIATE SUSPENSION NOTES:
- INTERMEDIATE SUSPENSION REQ'D. FOR BOOM LENGTHS OF 280 FT. (85.3 M) THRU 300 FT. (91.4 M)
 - SUSPENSION IS ATTACHED TO BOOM USING LINK 171761, WHICH IS LOCATED AS FOLLOWS:



- LINKS 172029 AND 172030 SHOULD BE PINNED TOGETHER TO PROVIDE THE FOLLOWING LENGTH PRIOR TO CHECKING BOOM DEFLECTION.

BOOM LENGTH	LINK ASS'Y.	LENGTH	DIM. "T" ON VIEW "C"
FEET	METERS		
280	85.3	44.875"	(1139.82mm)
290	88.4	41.875"	(1063.62mm)
300	91.4	37.125"	(942.98mm)

- ADJUST LINKS 172029 AND 172030 WITH THE BOOM ONLY IN THE SELF-SUPPORTED HORIZONTAL POSITION (0° BOOM ANGLE), TO THE FOLLOWING IN PLANE DEFLECTIONS:

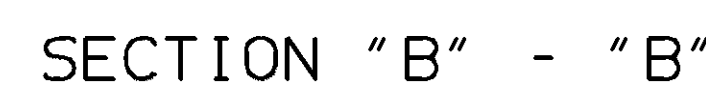
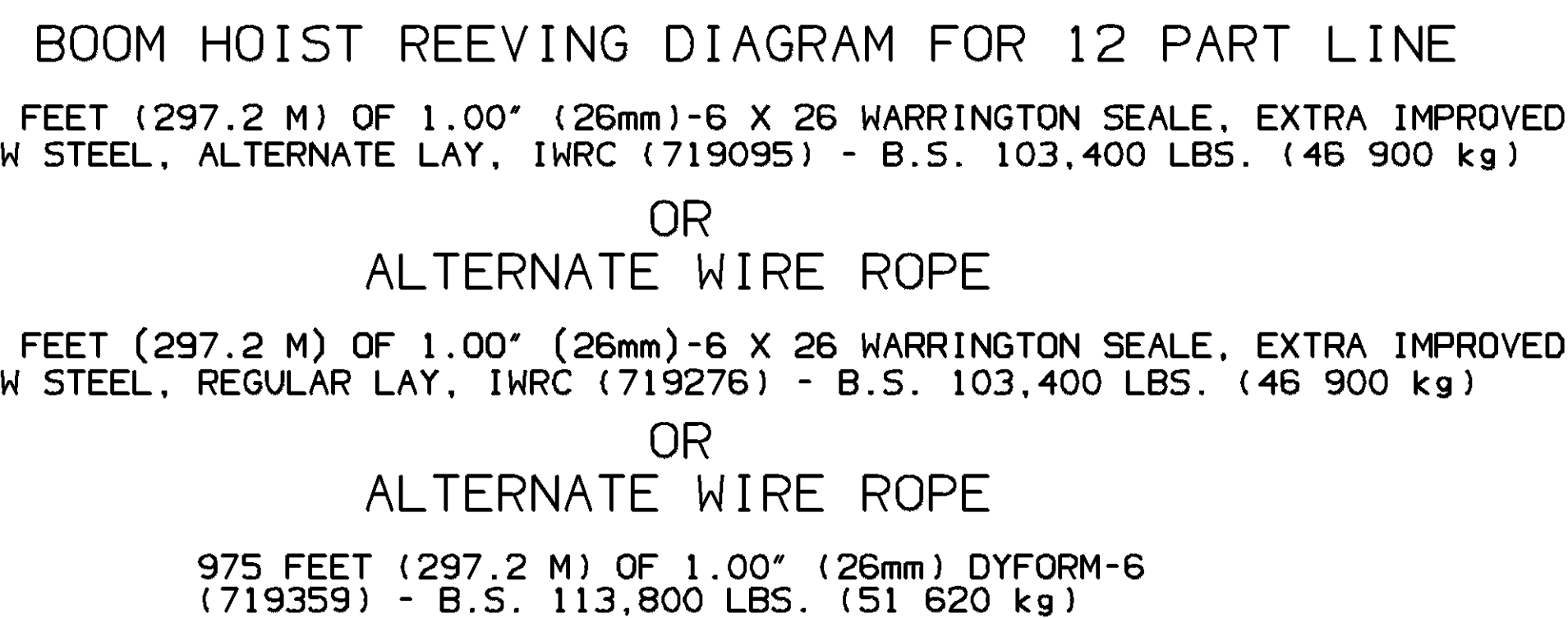
BOOM LENGTH	FEET	METERS	DEFLECTION	DEFLECTION LOCATION
280	85.3	23.0"	(584.2mm)	DEFLECTION TO BE MEASURED AT LINK 171761.
290	88.4	22.5"	(571.5mm)	(25.4mm)
300	91.4	21.5"	(546.1mm)	0.0

- RIGHT AND LEFT SIDE OF BOOM MUST BE ADJUSTED AND CHECKED INDEPENDENTLY.

- PIN IN PLACE ONLY DURING EQUALIZER RELOCATION FROM GANTRY STORAGE TO BOOM BUTT EQUALIZER RAIL. PIN TO BE STOWED FOR NORMAL CRANE OPERATION.
- REMOVE WHEN JIB IS USED.
- USE LOCITE #242 OR EQUIVALENT ON MOUNTING SCREW THREADS AT ASSEMBLY. DELETE WHEN OPTIONAL ONE PIECE BUTT 171230 IS USED.
- LOCATE 10 FT (3.05 M) PENDANTS NEXT TO EQUALIZER.
- BOSS ON LINK 171761 MUST ALWAYS BE TO THE OUTSIDE OF THE BOOM. SEE SECTION D - D.
- USED ON BOOM TOP.
- SEE CRANE ASSEMBLY AND RIGGING GUIDE IN THE OPERATIONS MANUAL FOR INSTRUCTIONS ON PENDANT STOWAGE.
- REQUIRED FOR CONTAINER HANDLING MACHINES. FIRST ON S/D 4210.
- (12 FT.)-(3.66 M)
- (28 FT.)-(8.53 M)
- REQUIRED TOGETHER FOR CONTAINER HANDLING MACHINES. FIRST ON S/D 4250.
- SEE DRAWING 176265 (INDICATOR ASSEMBLY P.A.T. DUMMY LOAD LINK INSTALLATION) FOR USE WITH THE P.A.T. LOAD MOMENT INDICATOR.

BILL OF MATERIAL

QTY	ITEM NO.	DESCRIPTION	UNIT	MATERIAL	QTY	ITEM NO.	DESCRIPTION	UNIT	MATERIAL
1	70	70 FT. (21.3 M) BASIC BOOM			1	22656	2BOOM SIGN		22656
1	2	2END PLATE		76095	1	137502	2WASHERS		137502
1	2	2PIN		160720	1	168779	1BOOM ANGLE INDICATOR ASSEMBLY		168779
1	2	2PENDANT LINK		169785	1	169834	2EQUALIZER PENDANT LINK		169834
1	2	2GANTRY ASSEMBLY		170418	1	170690	4PIN		170690
1	2	2EQUALIZER ASSEMBLY		171248	1	171283	140 FT. (12.19 M) BUTT LOWER SECTION		171283
1	2	2PIN		171500	1	171697	1TIMBER (WIRE ROPE)		171697
1	2	2TIMBER		172478	1	172669	2PENDANT LINK		172669
1	2	2PENDANT LINK		172670	1	172675	2PIN		172675
1	2	2LINK		172676	1	172677	4PIN		172677
1	2	2BOOM TOP (30 FT.)-(9.14 M)		172878	1	172960	1BOOM POINT SHAFT ASSEMBLY (LOWER)		172960
1	2	2WIRE ROPE GUIDE ASSEMBLY							

SHT 2 OF 2