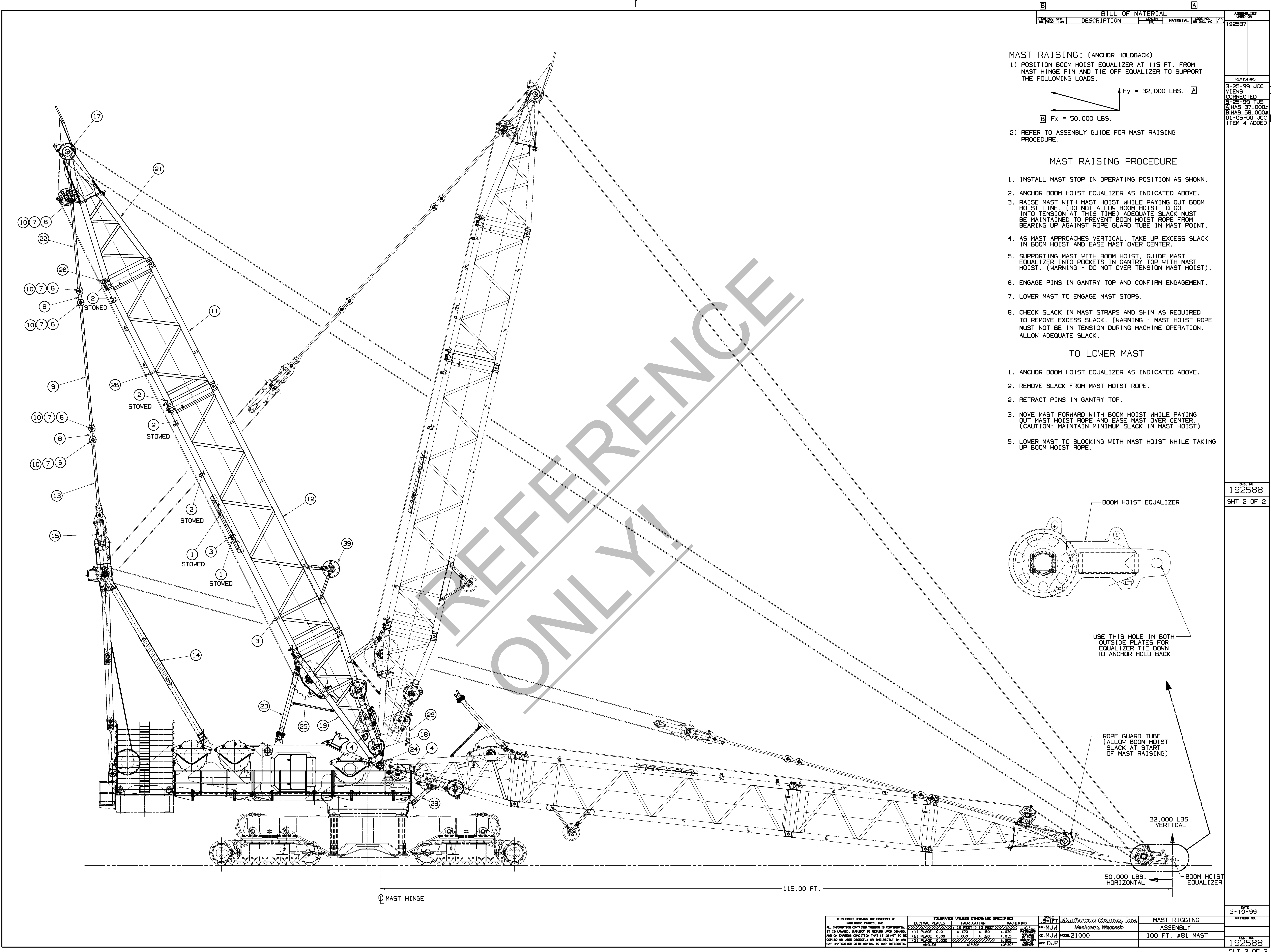
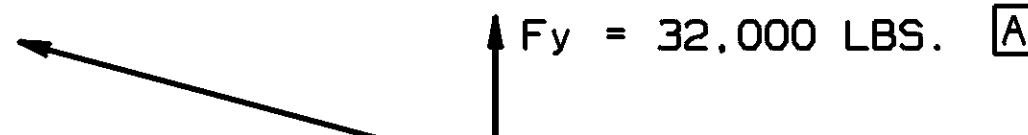




BILL OF MATERIAL			
QTY	DESCRIPTION	UNIT	QTY
1	MAST RIGGING	ASSEMBLY	1

MAST RAISING: (ANCHOR HOLDBACK)

1) POSITION BOOM HOIST EQUALIZER AT 115 FT. FROM MAST HINGE PIN AND TIE OFF EQUALIZER TO SUPPORT THE FOLLOWING LOADS.



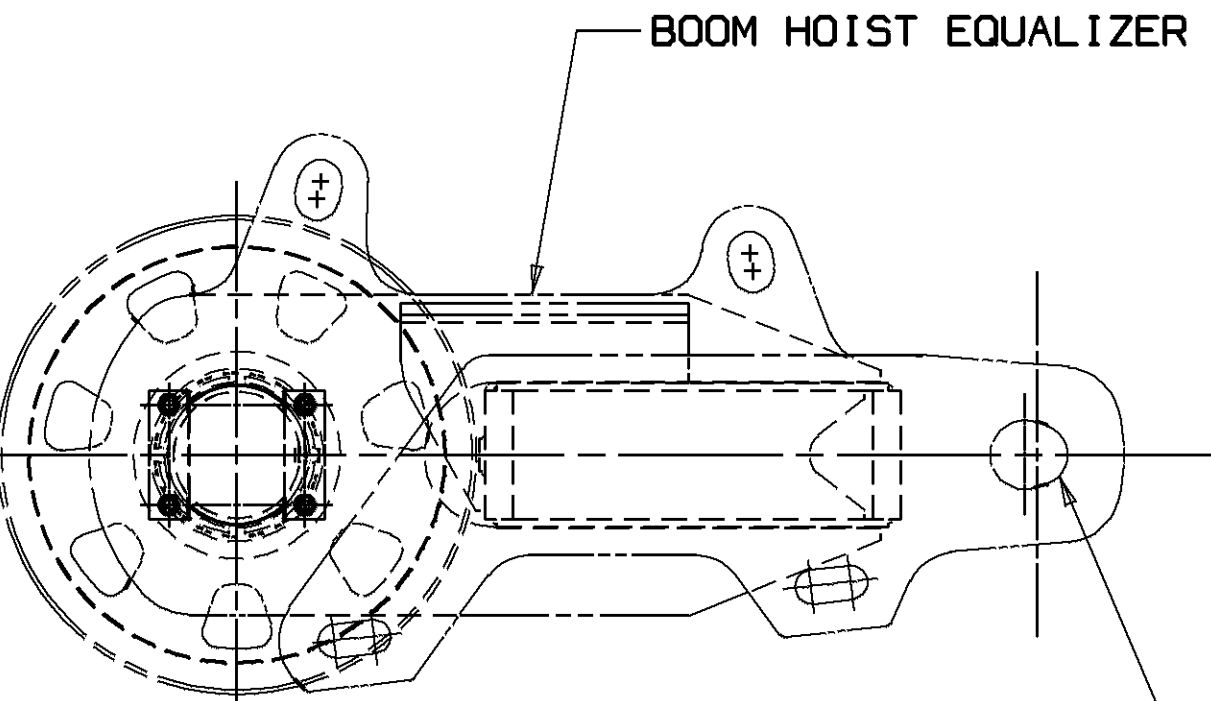
2) REFER TO ASSEMBLY GUIDE FOR MAST RAISING PROCEDURE.

MAST RAISING PROCEDURE

1. INSTALL MAST STOP IN OPERATING POSITION AS SHOWN.
2. ANCHOR BOOM HOIST EQUALIZER AS INDICATED ABOVE.
3. RAISE MAST WITH MAST HOIST WHILE PAYING OUT BOOM HOIST LINE. (DO NOT ALLOW BOOM HOIST TO GO INTO TENSION AT THIS TIME) ADEQUATE SLACK MUST BE MAINTAINED TO PREVENT BOOM HOIST ROPE FROM BEARING UP AGAINST ROPE GUARD TUBE IN MAST POINT.
4. AS MAST APPROACHES VERTICAL. TAKE UP EXCESS SLACK IN BOOM HOIST AND EASE MAST OVER CENTER.
5. SUPPORTING MAST WITH BOOM HOIST. GUIDE MAST EQUALIZER INTO POCKETS IN GANTRY TOP WITH MAST HOIST. (WARNING - DO NOT OVER TENSION MAST HOIST).
6. ENGAGE PINS IN GANTRY TOP AND CONFIRM ENGAGEMENT.
7. LOWER MAST TO ENGAGE MAST STOPS.
8. CHECK SLACK IN MAST STRAPS AND SHIM AS REQUIRED TO REMOVE EXCESS SLACK. (WARNING - MAST HOIST ROPE MUST NOT BE IN TENSION DURING MACHINE OPERATION. ALLOW ADEQUATE SLACK.

TO LOWER MAST

1. ANCHOR BOOM HOIST EQUALIZER AS INDICATED ABOVE.
2. REMOVE SLACK FROM MAST HOIST ROPE.
3. RETRACT PINS IN GANTRY TOP.
4. MOVE MAST FORWARD WITH BOOM HOIST WHILE PAYING OUT MAST HOIST ROPE AND EASE MAST OVER CENTER. (CAUTION: MAINTAIN MINIMUM SLACK IN MAST HOIST)
5. LOWER MAST TO BLOCKING WITH MAST HOIST WHILE TAKING UP BOOM HOIST ROPE.



USE THIS HOLE IN BOTH OUTSIDE PLATES FOR EQUALIZER TIE DOWN TO ANCHOR HOLD BACK

ROPE GUARD TUBE (ALLOW BOOM HOIST SLACK AT START OF MAST RAISING)

32,000 LBS. VERTICAL

50,000 LBS. HORIZONTAL

BOOM HOIST EQUALIZER

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DECIMAL PLACES	FABRICATION	MACHINING	WELDING	DECIMAL PLACES	FABRICATION	MACHINING	WELDING	DECIMAL PLACES	FABRICATION	MACHINING	WELDING	DECIMAL PLACES	FABRICATION	MACHINING	WELDING	DECIMAL PLACES	FABRICATION	MACHINING	WELDING
(1) PLACE 0.0	± 1.50	± 1.50	± 0.05	(1) PLACE 0.0	± 1.50	± 1.50	± 0.05	(1) PLACE 0.0	± 1.50	± 1.50	± 0.05	(1) PLACE 0.0	± 1.50	± 1.50	± 0.05	(1) PLACE 0.0	± 1.50	± 1.50	± 0.05
(2) PLACE 0.00	± 0.00	± 0.00	± 0.01	(2) PLACE 0.00	± 0.00	± 0.00	± 0.01	(2) PLACE 0.00	± 0.00	± 0.00	± 0.01	(2) PLACE 0.00	± 0.00	± 0.00	± 0.01	(2) PLACE 0.00	± 0.00	± 0.00	± 0.01
(3) PLACE 0.000	± 0.000	± 0.000	± 0.001	(3) PLACE 0.000	± 0.000	± 0.000	± 0.001	(3) PLACE 0.000	± 0.000	± 0.000	± 0.001	(3) PLACE 0.000	± 0.000	± 0.000	± 0.001	(3) PLACE 0.000	± 0.000	± 0.000	± 0.001

DATE	3-10-99
PATTERN NO.	
QTY	1
ITEM 4 ADDED	