

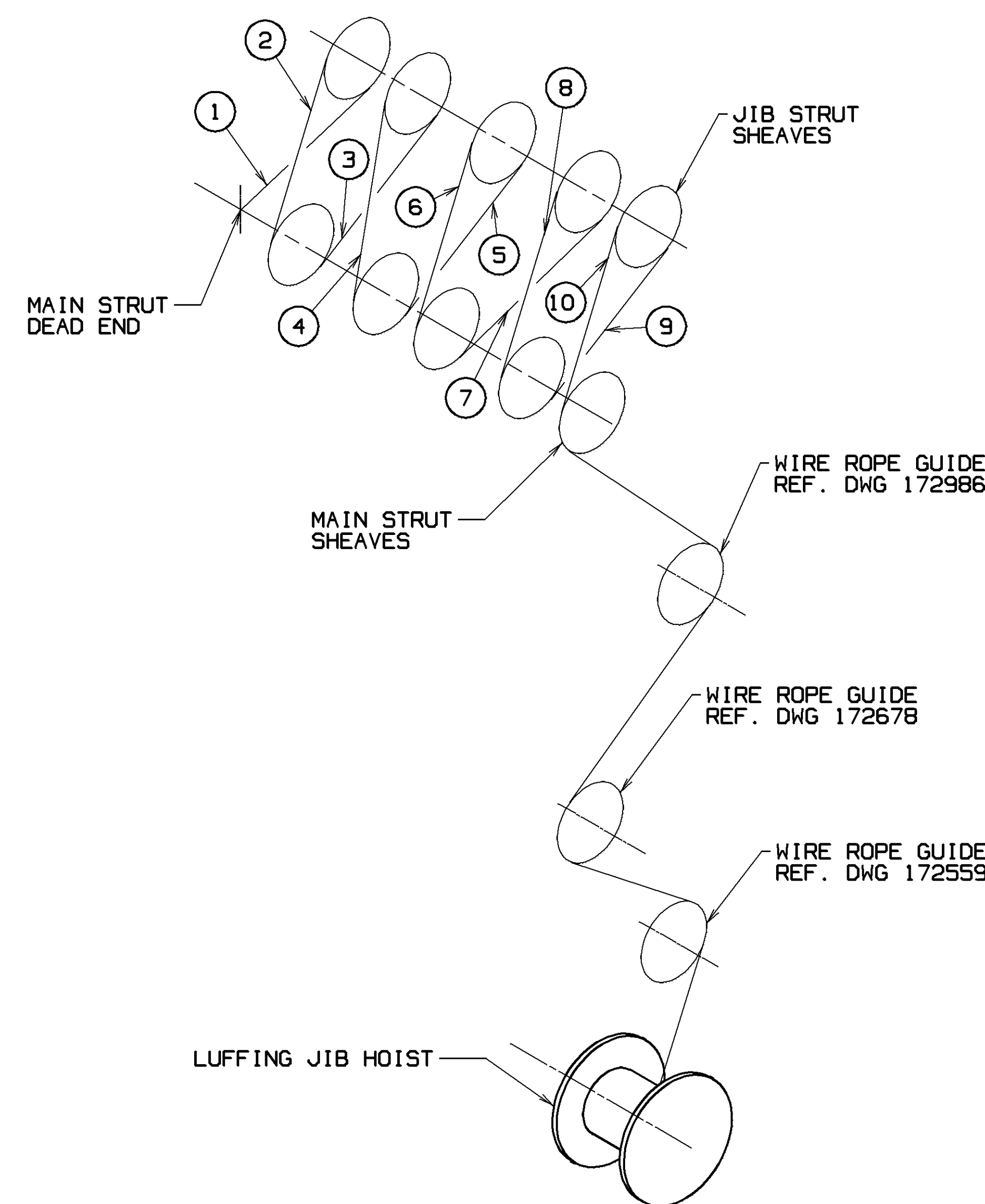


#133A JIB OPTIONAL PARTS		
	TIMBER (JIB STOWAGE)	17166018
	PENDANT TIE DOWN STRAP	66685230

INSERT NOTES:

1. THE SHORTER INSERTS MUST BE CLOSEST TO THE BOOM BUTT AND JIB BUTT (10 FT. (3.05 M) INSERT FIRST, THEN THE 20 FT. (6.10 M) INSERTS.)
2. SEE CRANE ASSEMBLY AND RIGGING GUIDE IN THE OPERATORS MANUAL FOR INSTRUCTIONS ON JIB STORAGE.

DATE	12-21-11	Manitowoc Cranes, Inc.	LUFFING JIB RIGGING ASSEMBLY
DR. C/UW		Manitowoc, Wisconsin	# 44 BOOM/#133A JIB
CR. JAZ	MODEL M-250		1.50 SWAGED PENDANTS
APP. GMP	M-250 SERIES 2		(USA)



LUFFING JIB HOIST REEVING
DIAGRAM FOR 10 PART LINE

SEE ①

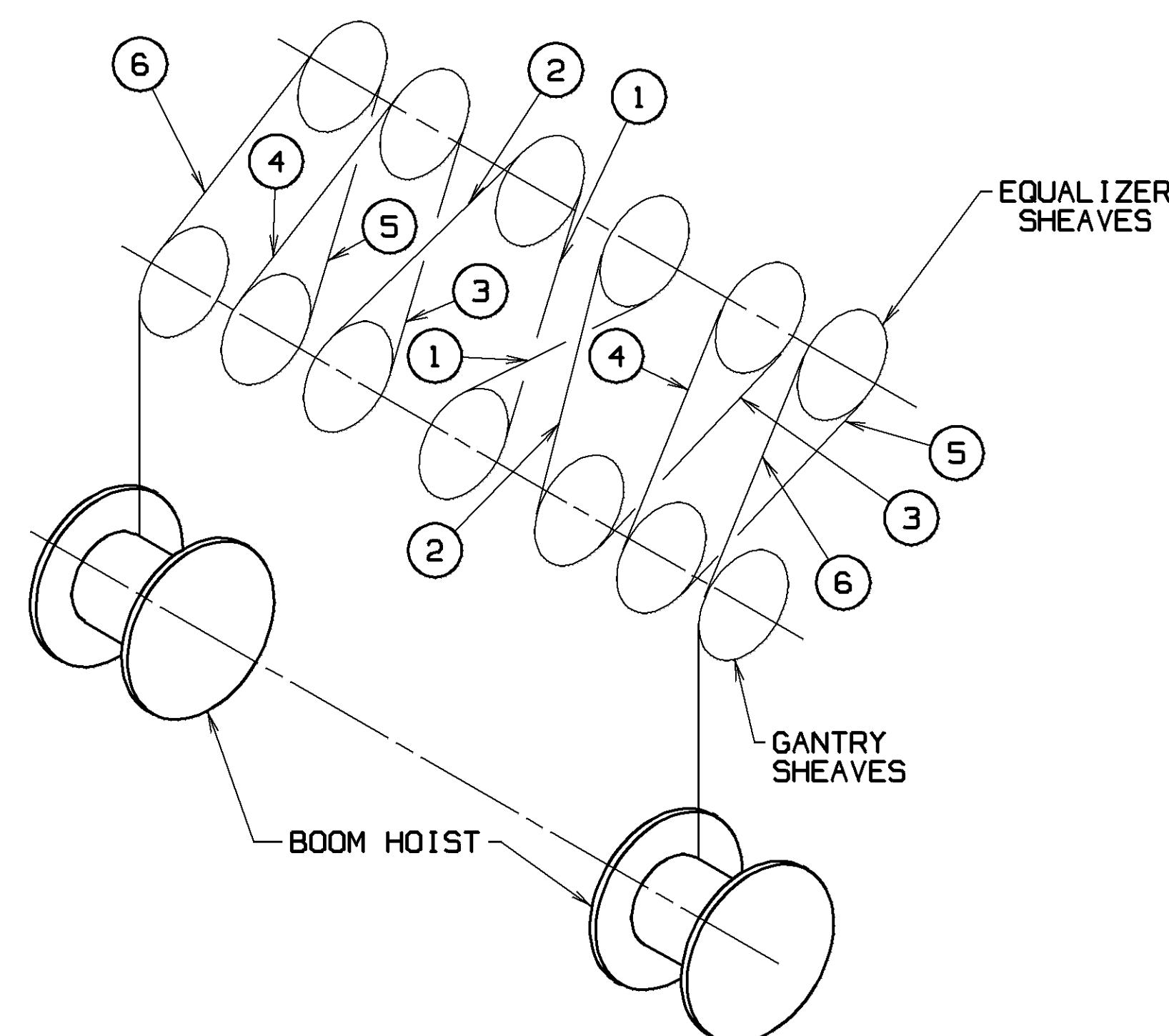
1100 FEET (335.3 M) OF .875" (22mm)-6 X 26 WARRINGTON SEALE, ACTUAL DIA .873/.900,
EXTRA IMPROVED PLOW STEEL, ALTERNATE LAY, IWRC (719094) - B.S. 79,600 LBS. (36 106 kg)

OR
ALTERNATE WIRE ROPE

1100 FEET (335.3 M) OF .875" (22mm)-6 X 26 WARRINGTON SEALE, ACTUAL DIA .873/.900,
EXTRA IMPROVED PLOW STEEL, REGULAR LAY, IWRC (719035) - B.S. 79,600 LBS. (36 106 kg)

OR
ALTERNATE WIRE ROPE

1100 FEET (335.3 M) OF .875" (22mm) DYFORM-6 ACTUAL DIA .873/.900
(719335) - B.S. 87,600 LBS. (39 735 kg)



BOOM HOIST REEVING DIAGRAM FOR 12 PART LINE

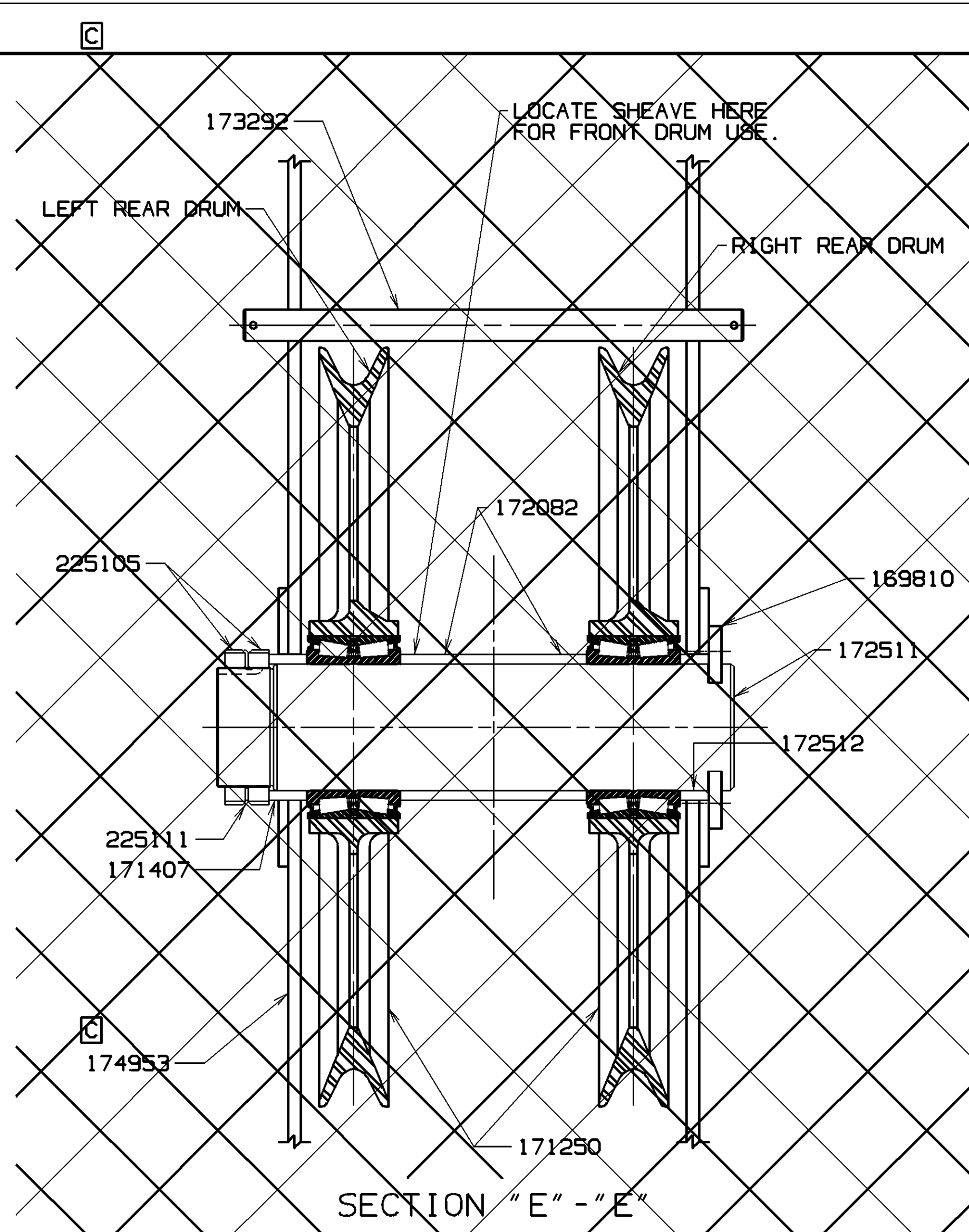
975 FEET (297.2 M) OF 1.00" (26mm)-6 X 26 WARRINGTON SEALE, EXTRA IMPROVED
PLOW STEEL, ALTERNATE LAY, IWRC (719095) - B.S. 103,400 LBS. (46 900 kg)

OR
ALTERNATE WIRE ROPE

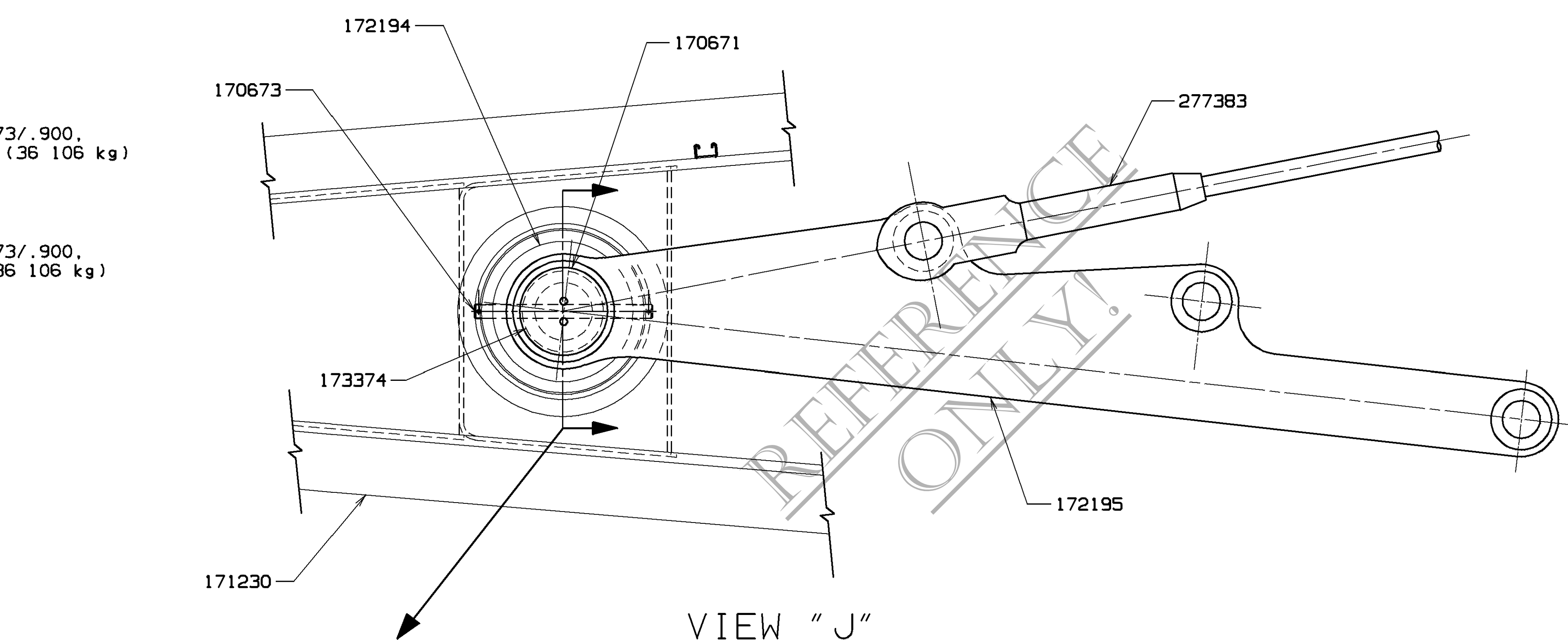
975 FEET (297.2 M) OF 1.00" (26mm)-6 X 26 WARRINGTON SEALE, EXTRA IMPROVED
PLOW STEEL, REGULAR LAY, IWRC (719276) - B.S. 103,400 LBS. (46 900 kg)

OR
ALTERNATE WIRE ROPE

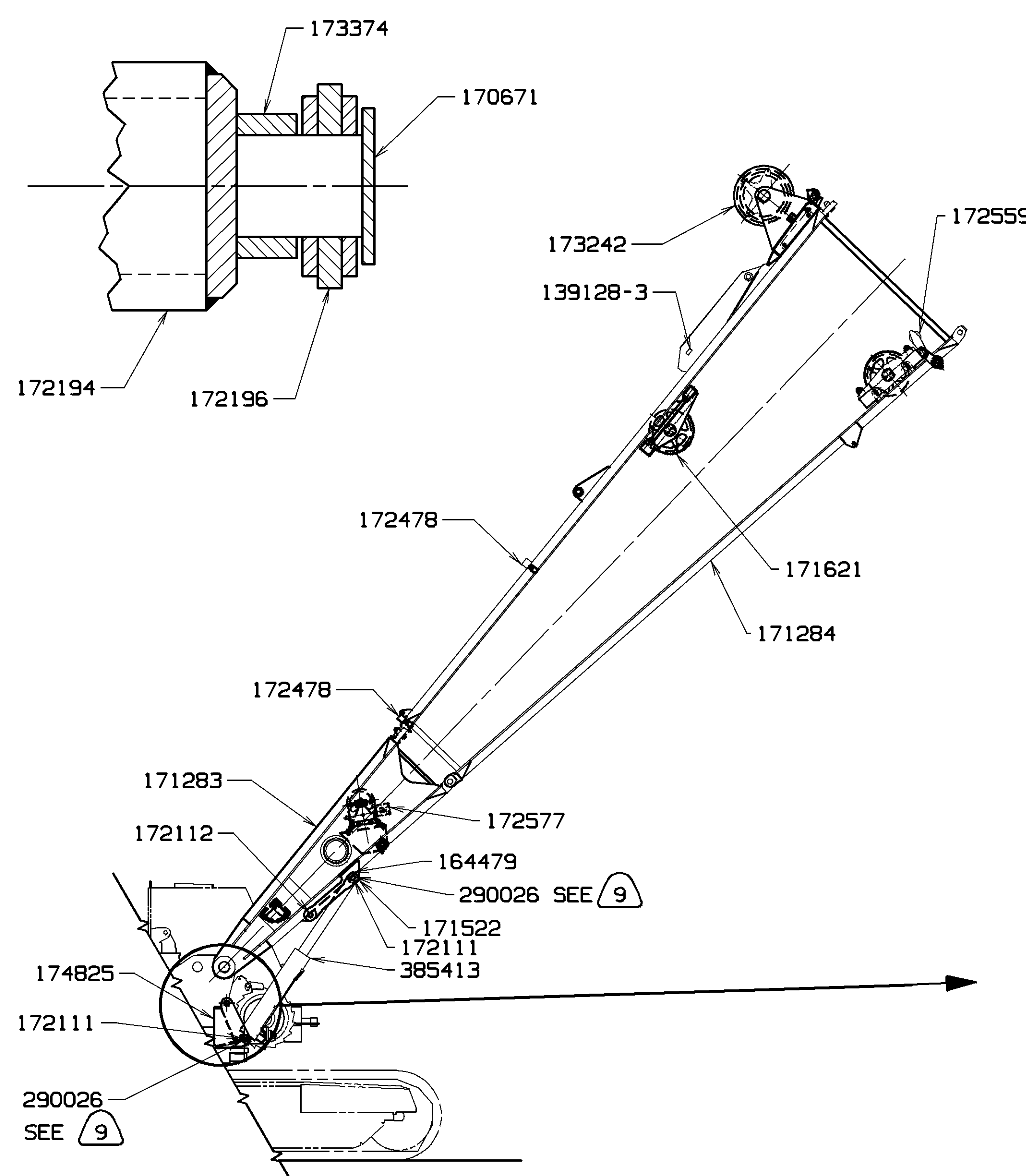
975 FEET (297.2 M) OF 1.00" (26mm) DYFORM-6
(719359) - B.S. 113,800 LBS. (51 620 kg)



SECTION "E" - "E"



VIEW "J"



VIEW SHOWING 2-PIECE
BUTT COMBINATION

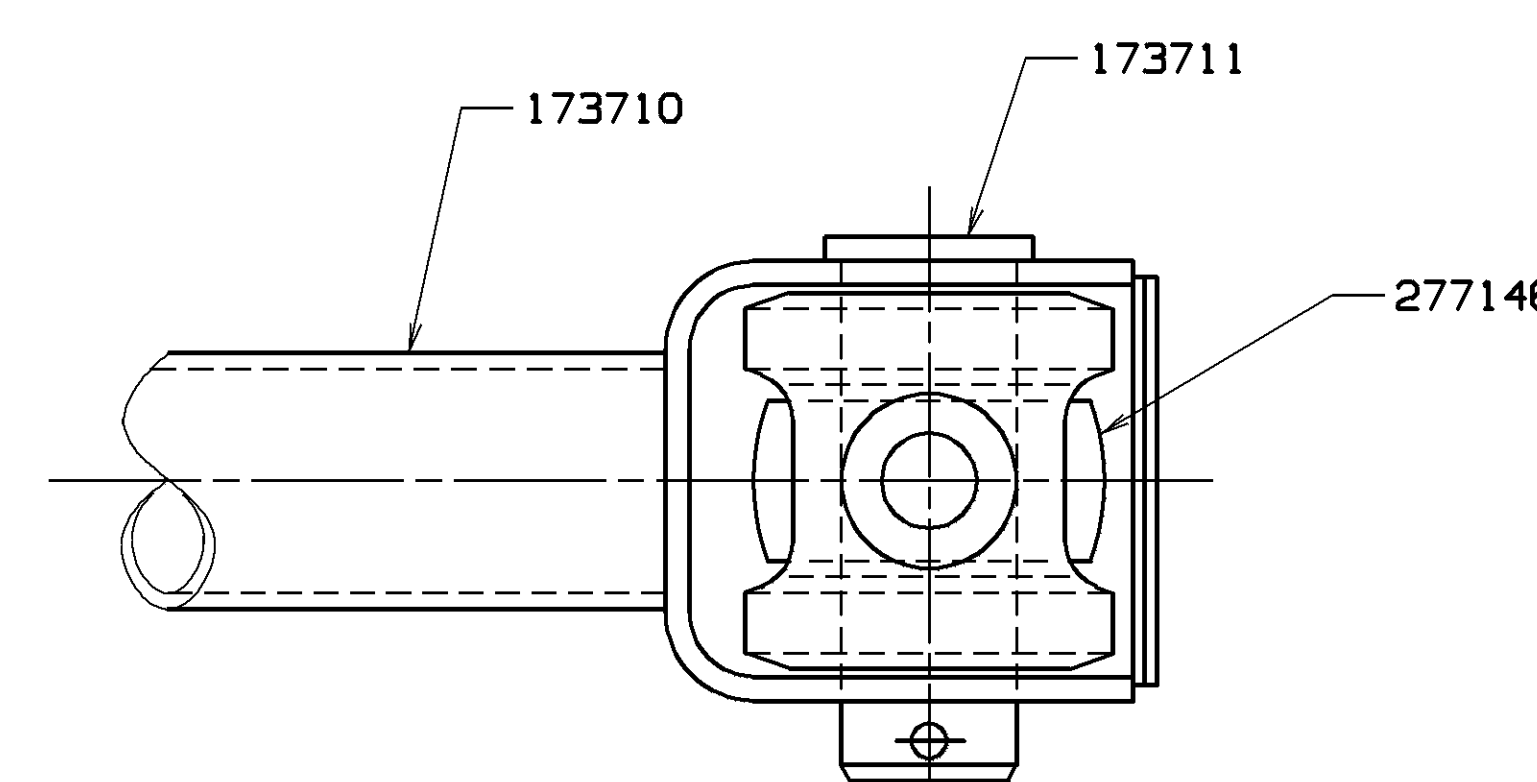
BOOM HANDLING INSTRUCTIONS

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 MAKE UP	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.

③ SEE VIEW Q ON SHT. 4.

③ PIN CONNECTED 133A - MAY USE 421319 OR 174307.



VIEW "P" - "P"

REV. NO.	DESCRIPTION	DATE	BY	MATERIAL	QTY	NO.	ASSEMBLIES USED IN
1	1.125 (29mm) WIRE ROPE.						
2	ON DWG. 139117. GANTRY TIE DOWN PENDANT.						
3	ON DWG. 78145.						
4	THE COMBINATION OF BUTT SECTIONS 171283 AND 171284 REPLACE 40 FT. (12.19 M) BUTT 171230.						
5	ON DWG. 73026.						
6	REQUIRED FOR CRAWLER HANDLING.						
7	SEE JIB STOP ASSEMBLY FOR JIB STOP ERECTION PROCEDURE.						
8	REQ'D. FOR BOOM BUTT HANDLING: CAN BE USED WITH 2-PIECE BOOM BUTT ONLY. MAX. COMBINATION THAT CAN BE HANDLED WITH CYLINDER 385413 IS: BUTT SECTIONS 171283 & 171284; ROPE GUIDES 173242, 172559 & 171621; RIGGING WINCH 172577; EQUALIZER 17248; BOOM STOPS 170474 REF. AND 2 PARTS OF 1.125 (29mm) WIRE ROPE (FOR EQUALIZER HANDLING). CYLINDER MUST BE FULLY RETRACTED FOR CRANE OPERATION.						
9	INSTALL 2 BUSHINGS 290026 (1 EACH SIDE) IN LOWER PIN EYE AND 2 (1 EACH SIDE) IN UPPER PIN EYE OF CYLINDER 385413. BUSHINGS TO BE FLUSH WITH OUTSIDE FACE OF PIN EYE.						
10	PIN IN PLACE ONLY DURING EQUALIZER RELOCATION FROM GANTRY STORAGE TO BOOM BUTT EQUALIZER RAIL. PIN TO BE STOWED FOR NORMAL CRANE OPERATION.						
11	REQ'D. FOR 2 PIECE BOOM BUTT. USE LOCKTITE 242 OR EQUIVALENT ON MOUNTING SCR. THDS. AT ASSEMBLY.						
12	INSTALL WITH HEAD ON BOTTOM. WIRE END PLATE SCREWS TOGETHER.						
13	LOCATE AS REQ'D SEE SECTION "E" - "E".						
14	.875 (22mm) WIRE ROPE.						
15	SHOWN IN THE FORMAT: TOTAL PENDANTS REQ'D (BOOM PENDANTS REQ'D / JIB BACKSTAY PENDANTS REQ'D)						
16	TIGHTEN LOCKNUT SUFFICIENTLY TO CLAMP BEARING INNER RACE.						

STOWAGE TIMBER REQUIRED			
STOWAGE CASE		TIMBERS (171697)	
#133A JIB IN #44 BOOM			
FEET	METERS		
70 - 80	21.3 - 24.4	16	
90 - 120	27.4 - 36.6	24	
130 - 160	39.6 - 48.8	32	
170 - 200	51.8 - 61.0	40	

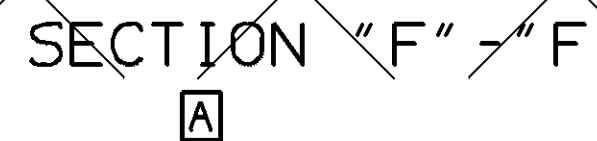
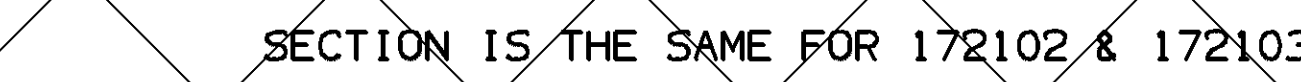
STOWAGE TIMBERS MUST BE REMOVED FROM BOOM SECTIONS FOR CRANE OPERATION.

STOWAGE TIMBER REQUIRED			
STOWAGE CASE		TIMBERS (171660)	
#132 JIB IN #133A JIB			
FEET	METERS		
40	12.19	6	
60 - 80	18.29 - 24.4	12	
100 - 120	30.50 - 36.6	18	

STOWAGE TIMBERS MUST BE REMOVED FROM JIB SECTIONS FOR CRANE OPERATION.

- 19 BEAM 172883 & 172884 AND ROPE GUIDE ASSEMBLY 172986 MUST BE REMOVED FOR LIFT CRANE OPERATION.
- 20 REFER TO SPECIFIC CAPACITY CHART FOR APPROPRIATE BOOM & JIB COMBINATIONS.
- 21 REFER TO LUFFING JIB RAISING PROCEDURE #7604A FOR RAISING & LOWERING BOOM & JIB.
- 22 USED ON BOOM TOP - SEE 23
- 23 SEE CRANE ASSEMBLY & RIGGING GUIDE IN THE OPERATIONS MANUAL FOR INSTRUCTIONS ON PENDANT STOWAGE.
- 24 SPREADER LOCATIONS:
A) FOR JIBS REQUIRING ONE SPREADER:
LOCATE AT THE FIRST PENDANT CONNECTION CLOSEST TO THE LUFFING JIB TOP. (REF. VIEW "P" - "P").
B) FOR JIBS REQUIRING TWO SPREADERS:
LOCATE ONE AT THE FIRST PENDANT CONNECTION CLOSEST TO THE LUFFING JIB TOP AND THE SECOND SPREADER AT THE PENDANT CONNECTION CLOSEST TO THE JIB STRUT.
- 25 PIN 173711 IS USED IN CONJUNCTION WITH SPREADER 173710 (2 PINS PER SPREADER) AND REPLACES PIN SUPPLIED WITH PENDANT. (REF. VIEW "P" - "P").
- 26 STAMP DATA ON 181503 AND INSTALL AFTER FINAL PAINTING.
- 27 PIN 564094 IS TO BE USED FOR MAIN STRUT ERECTION ONLY. IF WEDGE SOCKET 162233 IS USED FOR ANY LOAD LIFTING LINE, PIN 563960 (REF.) IS REQUIRED.
- 28 (12 FT.)-(3.66 M)
- 29 (28 FT.)-(8.53 M)
- 30 USED ON LUFFING JIB TOP - SEE 23
- 31 LUFFING JIB ASSEMBLIES REQUIRING OUTSIDE ASSIST MUST HAVE 1000 FT. (304.8 M) OF JIB HOIST LINE.
- 32 SEE DRAWING 176265 (INDICATOR LOAD ALTERNATE LINK INSTALLATION ASSEMBLY) FOR USE WITH THE P.A.T. LOAD MOMENT INDICATOR.

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DECIMAL PLACES				FABRICATION				MACHINING				DR: DJS				Manitowoc, Wisconsin			
(1) PLACE 0.0				± 1.00				± 1.00				DR: DJS				#44 BOOM/#133A JIB			
(2) PLACE 0.00				± 0.00				± 0.015				DR: DJS				1.50 SWAGED PENDANTS			
(3) PLACE 0.000				± 0.000				± 0.000				DR: DJS				M-250 SERIES 2			
ANGLES				41°-50°				41°-50°				M-250 SERIES 2				(USA)			



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	DECIMAL PLACES	FABRICATION	MACHINING	DR. DJS	Manitowoc, Wisconsin	#44 BOOM/ #133A JIB	DR. NO.
	(1) PLACE 0.0	≤ 10 FEET 0.125 ≥ 120 0.180	0.030 0.030 0.030	DR. DJS	MODEL-M-250	1.50 SWAGED PENDANTS	174308
	(2) PLACE 0.00	≤ 10 FEET 0.005 ≥ 120 0.008	0.005 0.005 0.005	APP TSC	(USA)		
	ANGLES	≤ 10 FEET ≥ 120	± 1 ° 30' ± 0 ° 30'				

SHT 3 OF 4

