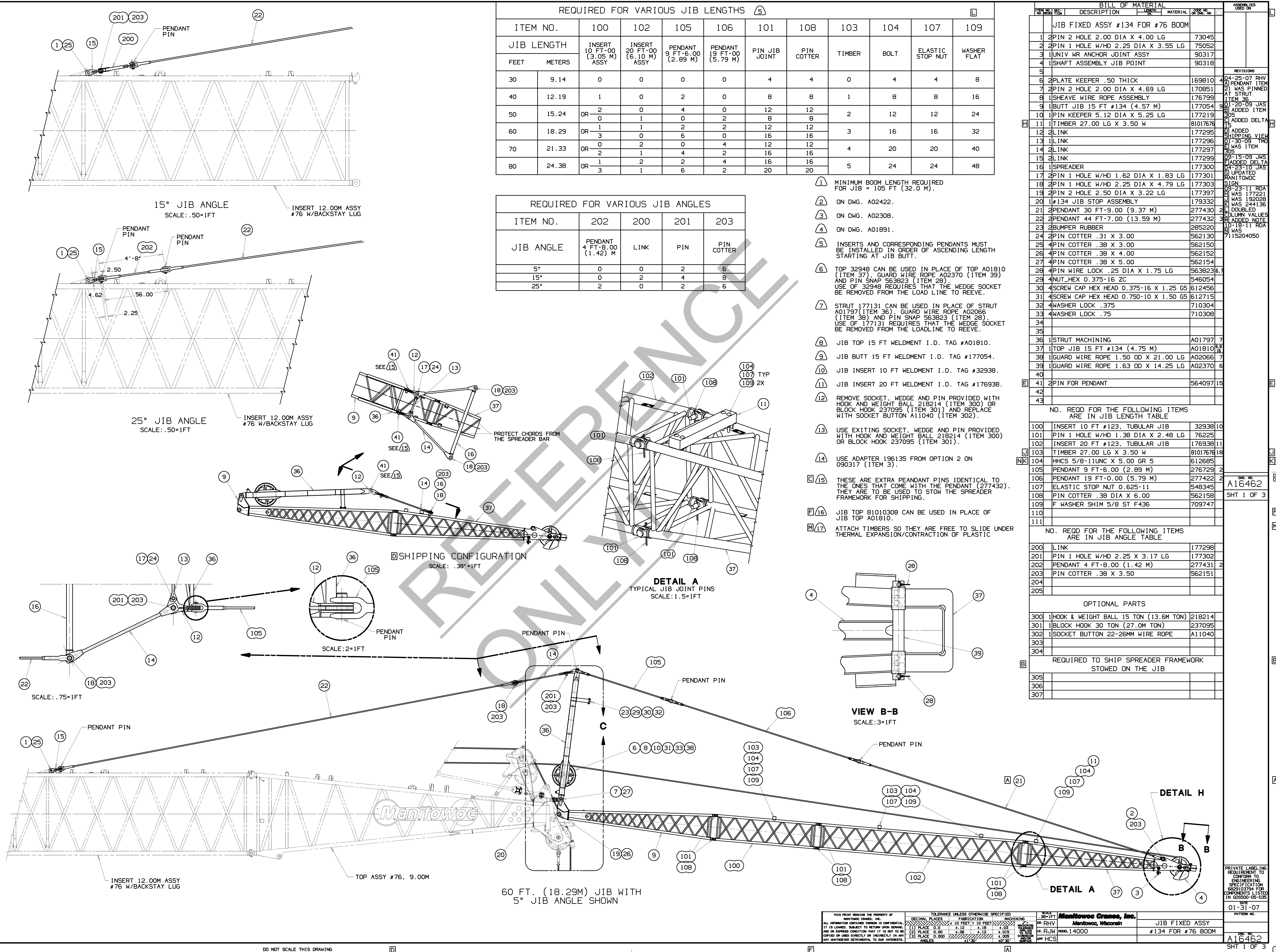


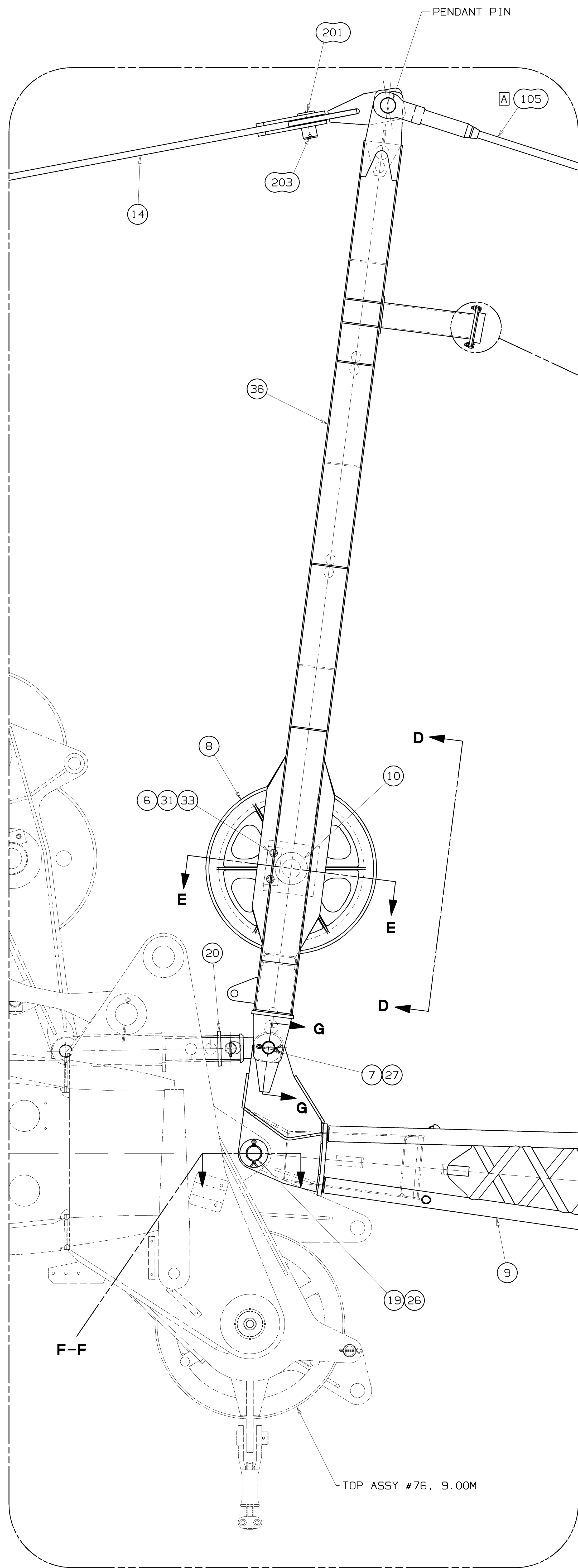
REQUIRED FOR VARIOUS JIB LENGTHS [A]											
ITEM NO.	100	102	105	106	101	108	103	104	107	109	
JIB LENGTH	INSERT 10 FT-00 (3.05 M) ASSY	INSERT 20 FT-00 (6.10 M) ASSY	PENDANT 9 FT-6.00 (2.89 M)	PENDANT 19 FT-00 (5.79 M)	PIN JIB JOINT	PIN COTTER	TIMBER	BOLT	ELASTIC STOP NUT	WASHER FLAT	
FEET	METERS										
30	9.14	0	0	0	4	4	0	4	4	8	
40	12.19	1	0	2	8	8	1	8	8	16	
50	15.24	OR 2 0	0 1	4 0	12 8	12 8	2	12	12	24	
60	18.29	OR 1 3	1 0	2 6	12 16	12 16	3	16	16	32	
70	21.33	OR 2 0	1 2	4 0	16 12	16 12	4	20	20	40	
80	24.38	OR 1 3	2 1	2 6	16 20	16 20	5	24	24	48	

REQUIRED FOR VARIOUS JIB ANGLES				
ITEM NO.	202	200	201	203
JIB ANGLE	PENDANT 4 FT-8.00 (1.42) M	LINK	PIN	PIN COTTER
5°	0	0	2	6
15°	0	2	4	8
25°	2	0	2	6

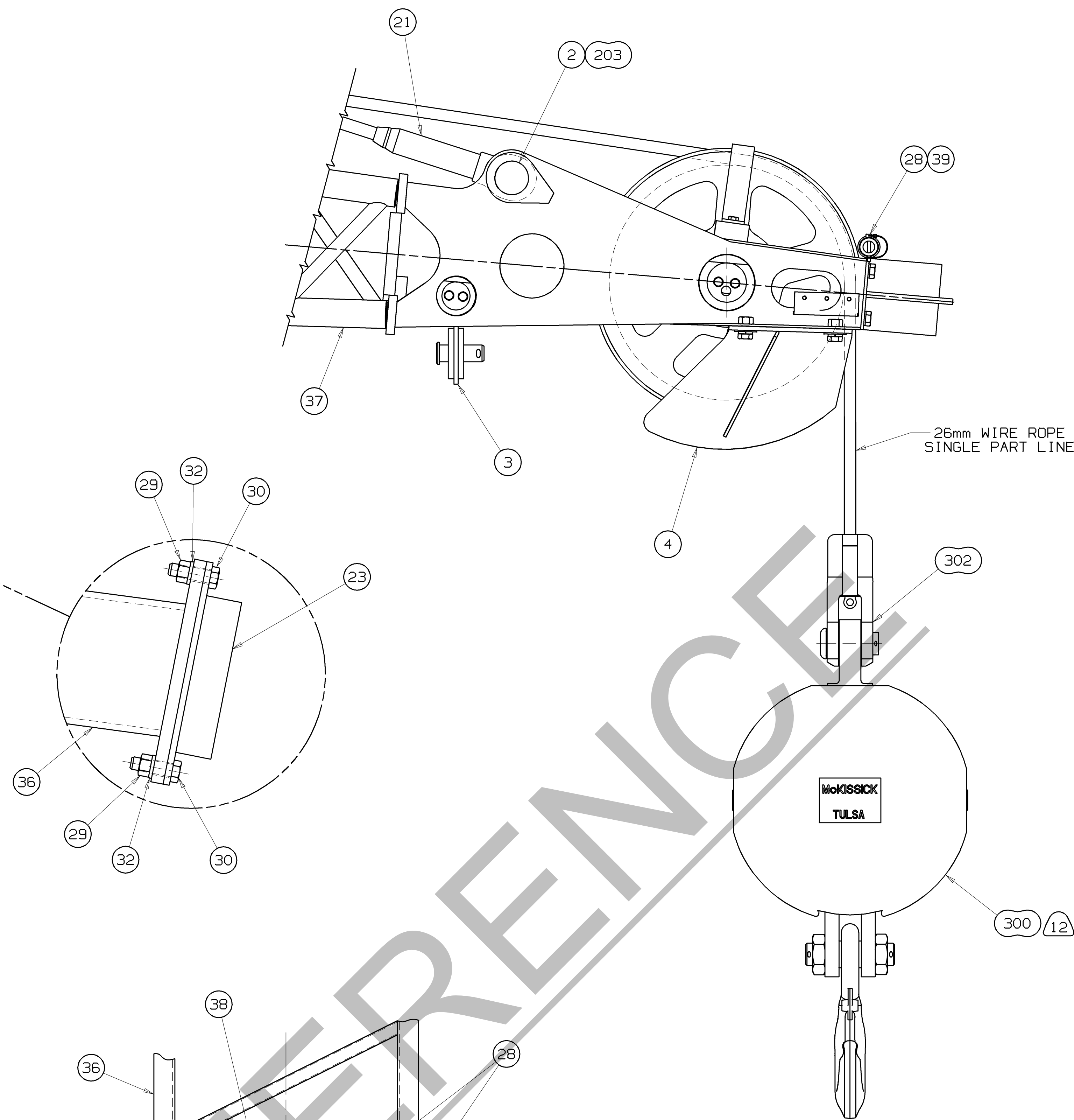
- 1 MINIMUM BOOM LENGTH REQUIRED FOR JIB = 105 FT (32.0 M).
- 2 ON DWG. A02422.
- 3 ON DWG. A02308.
- 4 ON DWG. A01891.
- 5 INSERTS AND CORRESPONDING PENDANTS MUST BE INSTALLED IN ORDER OF ASCENDING LENGTH STARTING AT JIB BUTT.
- 6 TOP 32948 CAN BE USED IN PLACE OF TOP A01810 (ITEM 37). GUARD WIRE ROPE A02370 (ITEM 39) AND PIN SNAP 563823 (ITEM 28). USE OF 32948 REQUIRES THAT THE WEDGE SOCKET BE REMOVED FROM THE LOAD LINE TO REEVE.
- 7 STRUT 177131 CAN BE USED IN PLACE OF STRUT A01797 (ITEM 36). GUARD WIRE ROPE A02066 (ITEM 38) AND PIN SNAP 563823 (ITEM 28). USE OF 177131 REQUIRES THAT THE WEDGE SOCKET BE REMOVED FROM THE LOADLINE TO REEVE.
- 8 JIB TOP 15 FT WELDMENT I.D. TAG #A01810.
- 9 JIB BUTT 15 FT WELDMENT I.D. TAG #177054.
- 10 JIB INSERT 10 FT WELDMENT I.D. TAG #32938.
- 11 JIB INSERT 20 FT WELDMENT I.D. TAG #176938.
- 12 REMOVE SOCKET, WEDGE AND PIN PROVIDED WITH HOOK AND WEIGHT BALL 218214 (ITEM 300) OR BLOCK HOOK 237095 (ITEM 301) AND REPLACE WITH SOCKET BUTTON A11040 (ITEM 302).
- 13 USE EXISTING SOCKET, WEDGE AND PIN PROVIDED WITH HOOK AND WEIGHT BALL 218214 (ITEM 300) OR BLOCK HOOK 237095 (ITEM 301).
- 14 USE ADAPTER 196135 FROM OPTION 2 ON 090317 (ITEM 3).
- 15 THESE ARE EXTRA PEANDANT PINS IDENTICAL TO THE ONES THAT COME WITH THE PENDANT (277432). THEY ARE TO BE USED TO STOW THE SPREADER FRAMEWORK FOR SHIPPING.
- 16 JIB TOP 81010308 CAN BE USED IN PLACE OF JIB TOP A01810.
- 17 ATTACH TIMBERS SO THEY ARE FREE TO SLIDE UNDER THERMAL EXPANSION/CONTRACTION OF PLASTIC

BILL OF MATERIAL					ASSEMBLIES USED ON	
ITEM NO.	QTY	DESCRIPTION	MATERIAL	QTY	NO.	
1	2	PIN 2 HOLE 2.00 DIA X 4.00 LG		73045		
2	2	PIN 1 HOLE W/HD 2.25 DIA X 3.55 LG		75052		
3	1	UNIV WR ANCHOR JOINT ASSY		90317		
4	1	SHAFT ASSEMBLY JIB POINT		90318		
5						
6	2	PLATE KEEPER .50 THICK		169810		
7	2	PIN 2 HOLE 2.00 DIA X 4.69 LG		170851		
8	1	SHEAVE WIRE ROPE ASSEMBLY		176799		
9	1	BUTT JIB 15 FT #134 (4.57 M)		177054		
10	1	PIN KEEPER 5.12 DIA X 5.25 LG		177219		
11	1	TIMBER 27.00 LG X 3.50 W		81017678		
12	2	LINK		177295		
13	1	LINK		177296		
14	2	LINK		177297		
15	2	LINK		177299		
16	1	SPREADER		177300		
17	2	PIN 1 HOLE W/HD 1.62 DIA X 1.83 LG		177301		
18	2	PIN 1 HOLE W/HD 2.25 DIA X 4.79 LG		177303		
19	2	PIN 2 HOLE 2.50 DIA X 3.22 LG		177397		
20	1	#134 JIB STOP ASSEMBLY		179332		
21	2	PENDANT 30 FT-9.00 (9.37 M)		277430		
22	2	PENDANT 44 FT-7.00 (13.59 M)		277432		
23	2	BUMPER RUBBER		285220		
24	2	PIN COTTER .31 X 3.00		562130		
25	4	PIN COTTER .38 X 3.00		562150		
26	4	PIN COTTER .38 X 4.00		562152		
27	4	PIN COTTER .38 X 5.00		562154		
28	4	PIN WIRE LOCK .25 DIA X 1.75 LG		563823		
29	4	NUT HEX 0.375-16 ZC		546054		
30	4	SCREW CAP HEX HEAD 0.375-16 X 1.25 G5		612456		
31	4	SCREW CAP HEX HEAD 0.750-10 X 1.50 G5		612715		
32	4	WASHER LOCK .375		710304		
33	4	WASHER LOCK .75		710308		
34						
35						
36	1	STRUT MACHINING		A01797		
37	1	TOP JIB 15 FT #134 (4.75 M)		A01810		
38	1	GUARD WIRE ROPE 1.50 OD X 21.00 LG		A02066		
39	1	GUARD WIRE ROPE 1.63 OD X 14.25 LG		A02370		
40						
41	2	PIN FOR PENDANT		564097		
42						
43						
NO. RECD FOR THE FOLLOWING ITEMS ARE IN JIB LENGTH TABLE						
100	1	INSERT 10 FT #123, TUBULAR JIB		32938		
101	1	PIN 1 HOLE W/HD 1.38 DIA X 2.48 LG		76225		
102	1	INSERT 20 FT #123, TUBULAR JIB		176938		
103	1	TIMBER 27.00 LG X 3.50 W		81017678		
104	1	HC5 5/8-11UNC X 5.00 GR 5		612685		
105	1	PENDANT 9 FT-6.00 (2.89 M)		276729		
106	1	PENDANT 19 FT-0.00 (5.79 M)		277422		
107	1	ELASTIC STOP NUT 0.625-11		548345		
108	1	PIN COTTER .38 DIA X 6.00		562158		
109	1	F WASHER SHIM 5/8 ST F436		709747		
110						
111						
NO. RECD FOR THE FOLLOWING ITEMS ARE IN JIB ANGLE TABLE						
200	1	LINK		177298		
201	1	PIN 1 HOLE W/HD 2.25 X 3.17 LG		177302		
202	1	PENDANT 4 FT-8.00 (1.42 M)		277431		
203	1	PIN COTTER .38 X 3.50		562151		
204						
205						
OPTIONAL PARTS						
300	1	HOOK & WEIGHT BALL 15 TON (13.6M TON)		218214		
301	1	BLOCK HOOK 30 TON (27.0M TON)		237095		
302	1	SOCKET BUTTON 22-26MM WIRE ROPE		A11040		
303						
304						
REQUIRED TO SHIP SPREADER FRAMEWORK STOWED ON THE JIB						
305						
306						
307						

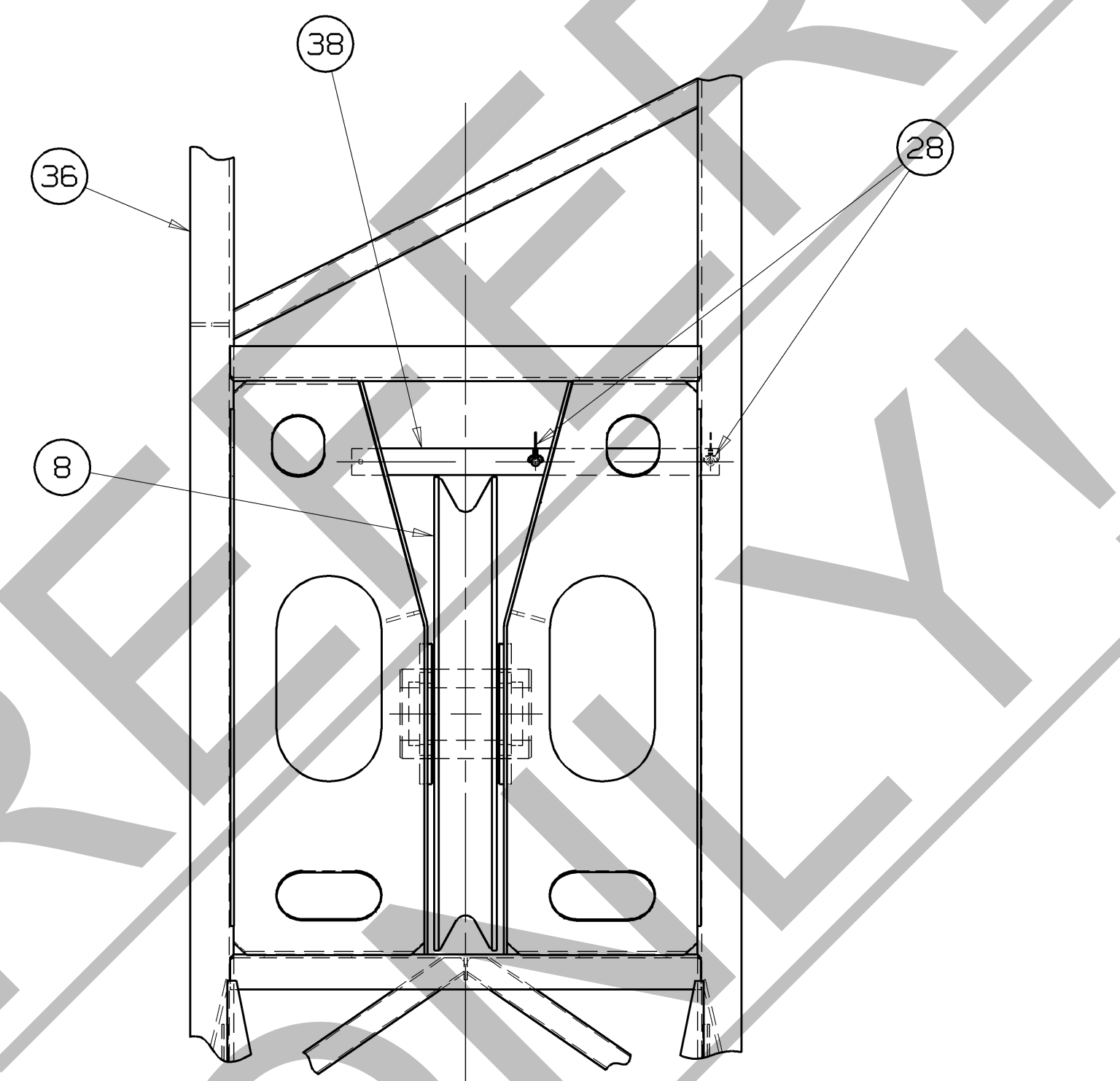




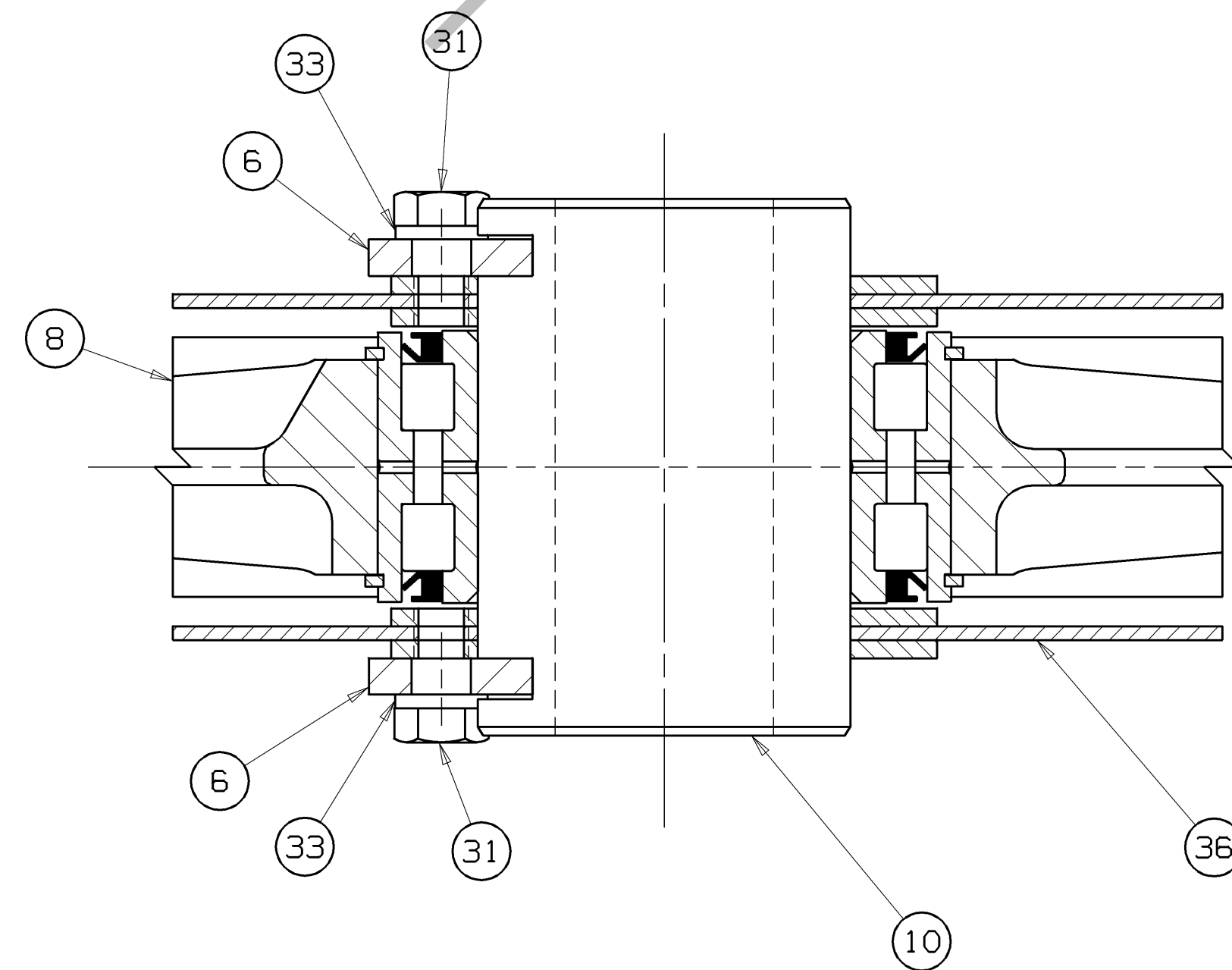
DETAIL C
SCALE: 1.5=1FT



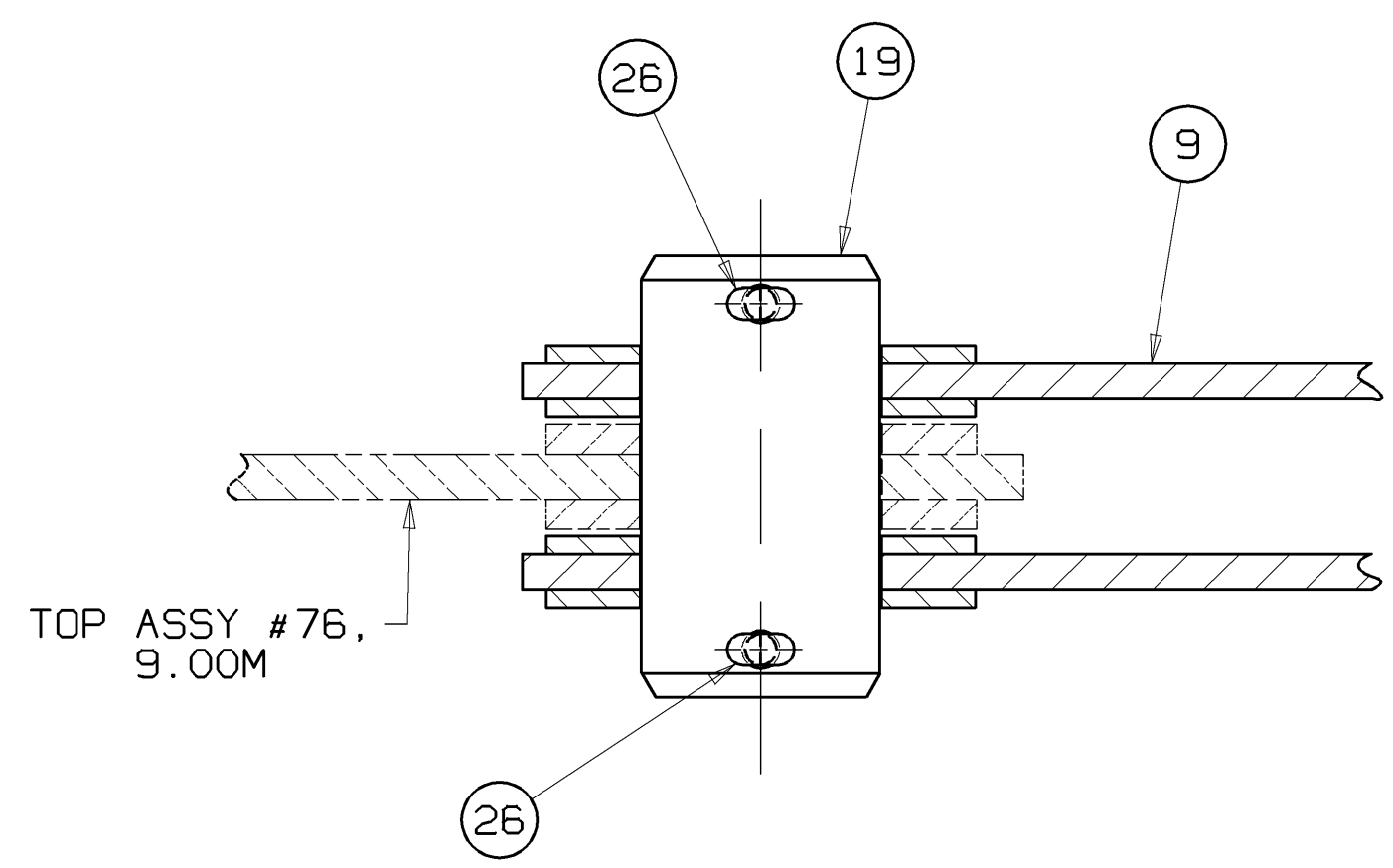
DETAIL H
SINGLE PART LINE
WITH BUTTON SOCKET
SCALE: 2=1FT



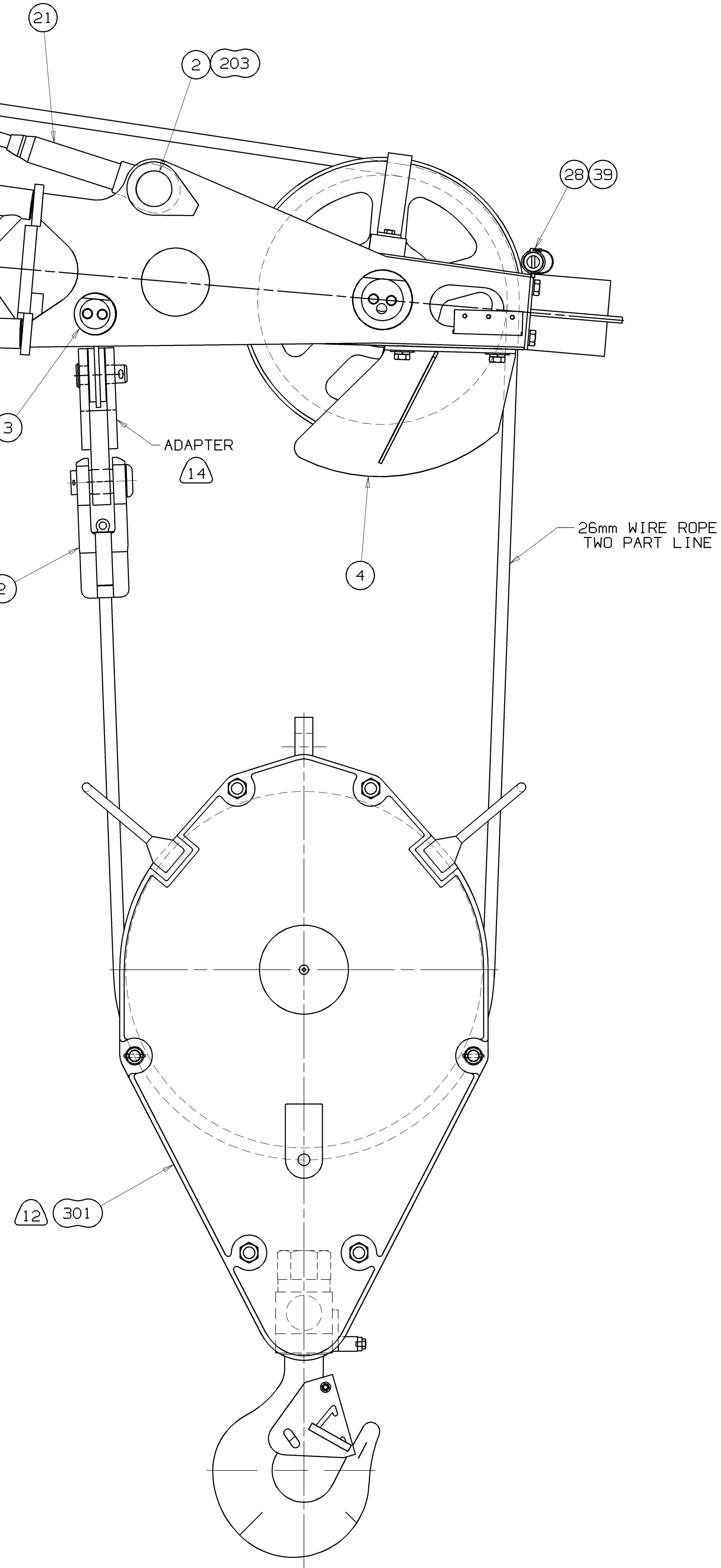
VIEW D-D
SCALE: 1.5=1FT



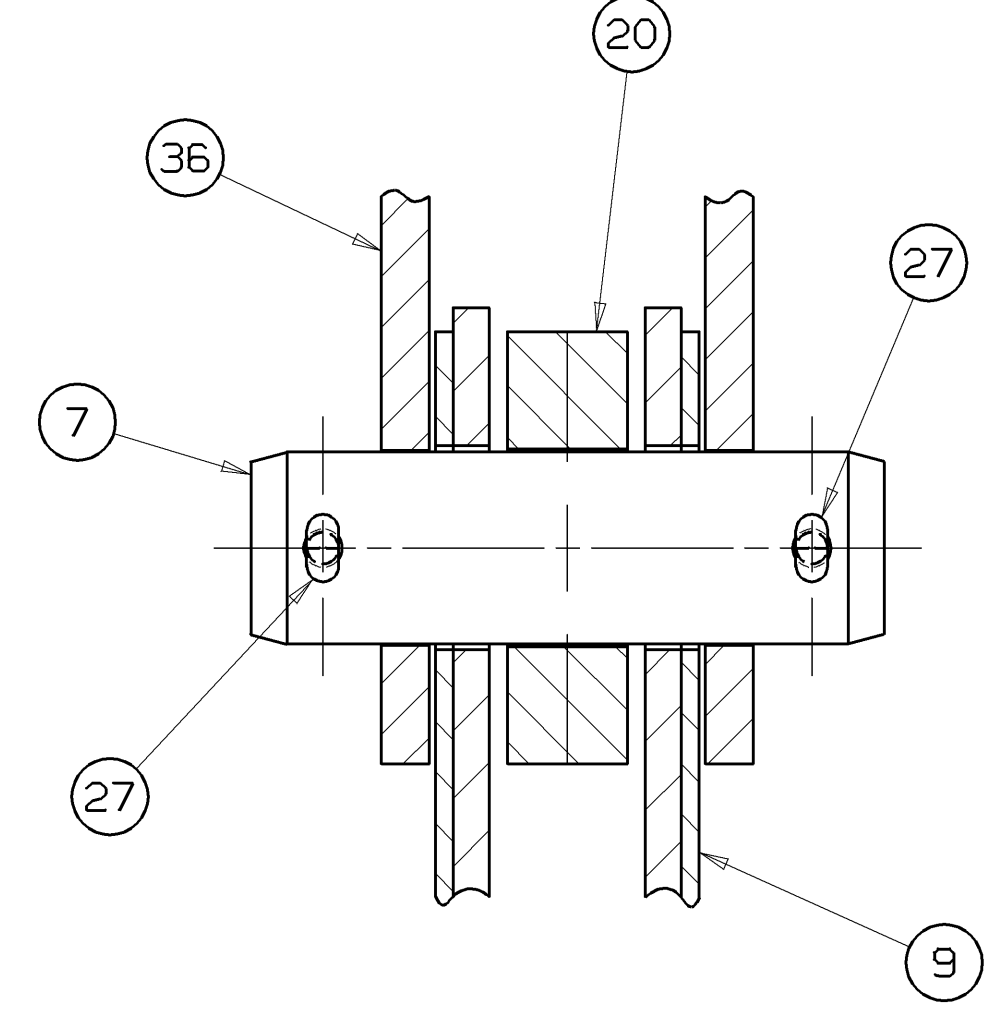
SECTION E-E
SCALE: 6=1FT



SECTION F-F
SCALE: 6=1FT



DETAIL H
TWO PART LINE
WITH BUTTON SOCKET
SCALE: 2=1FT



SECTION G-G
SCALE: 6=1FT

BILL OF MATERIAL				
ITEM NO.	SEC.	DESCRIPTION	QTY.	UNIT

ASSEMBLIES USED ON

REVISIONS
04-25-07 RHV
A WAS ITEM 21

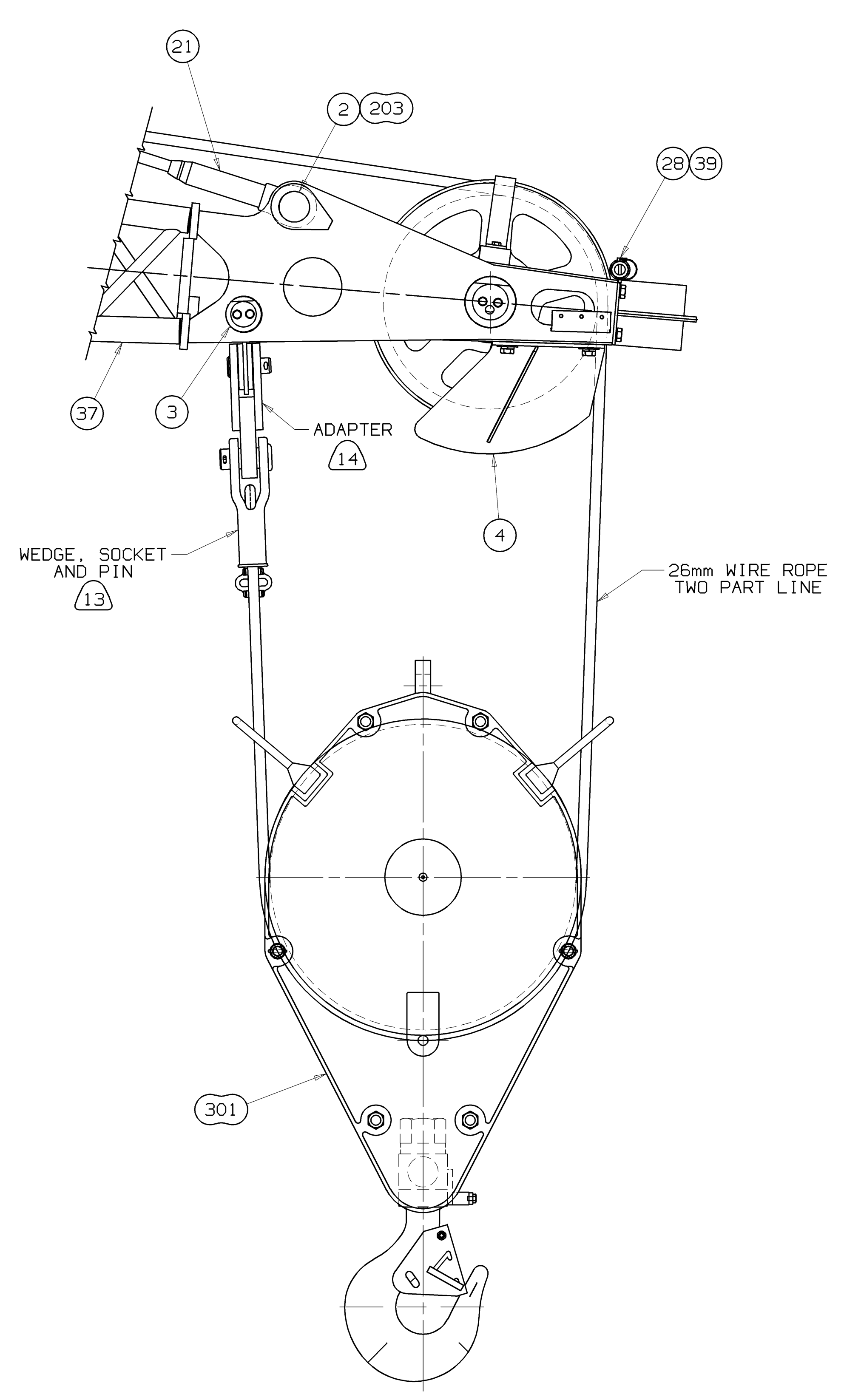
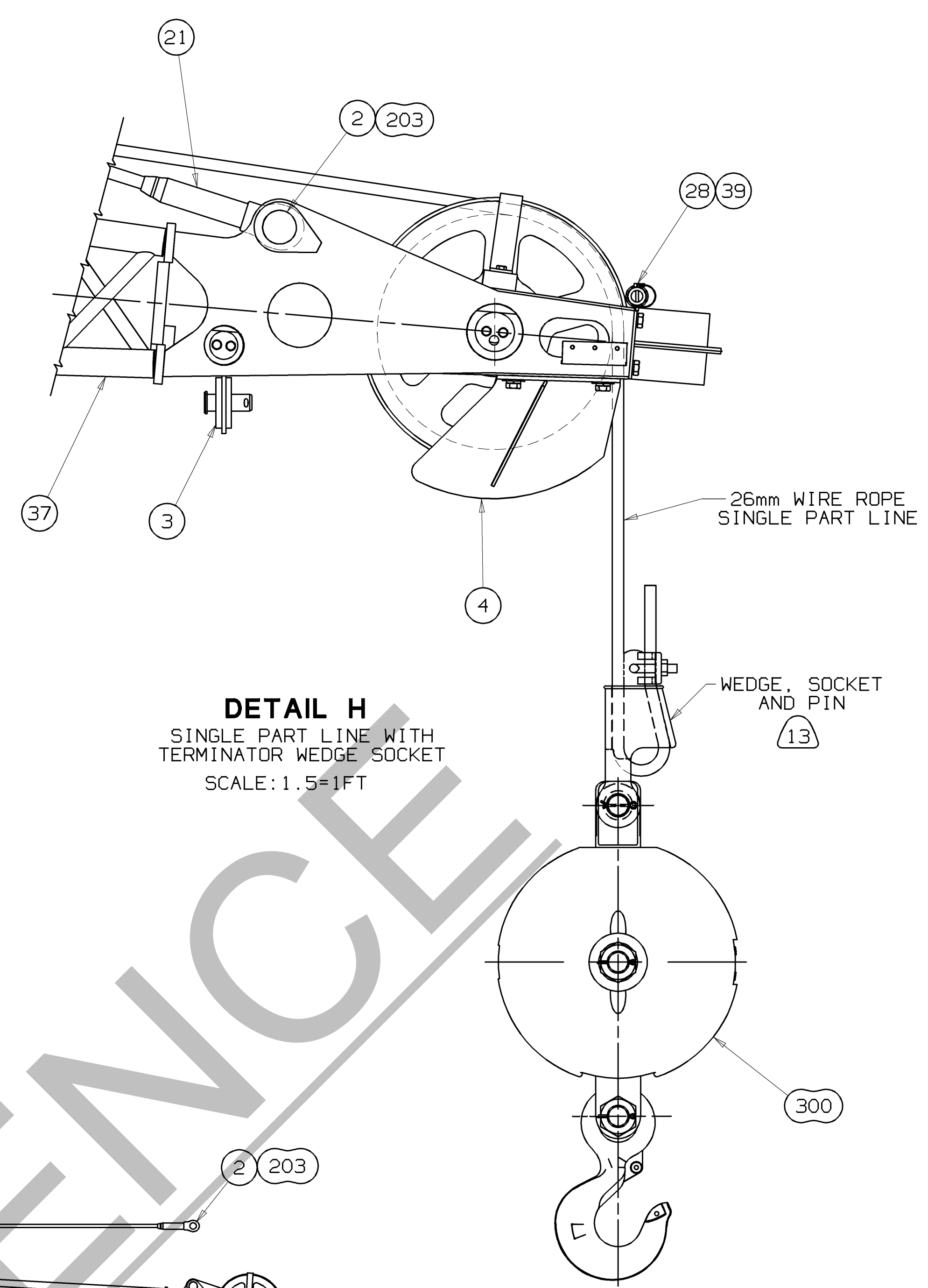
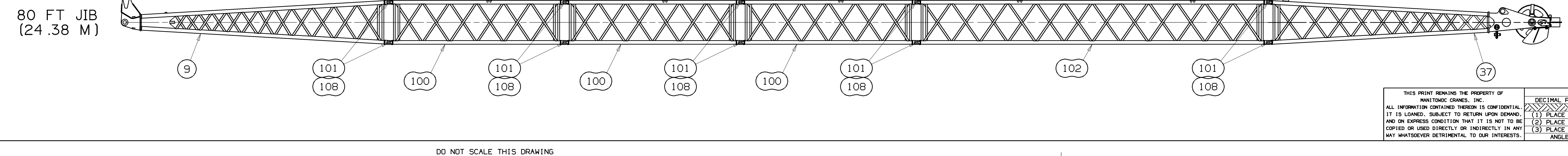
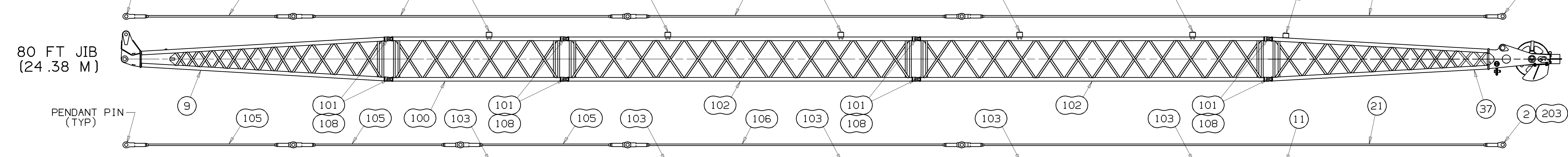
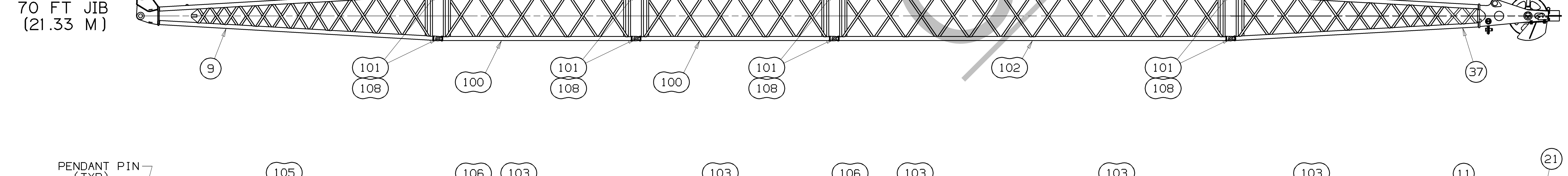
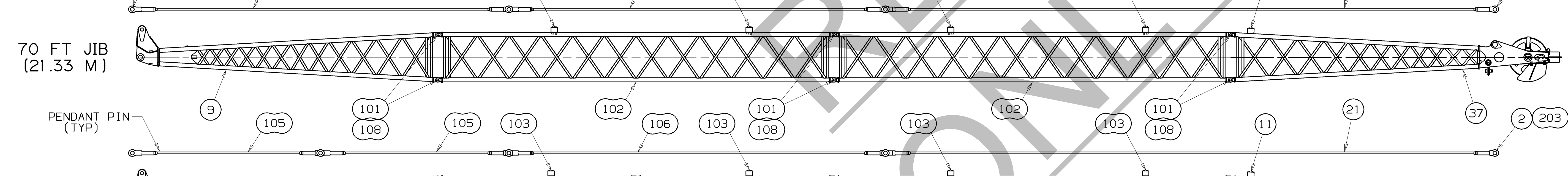
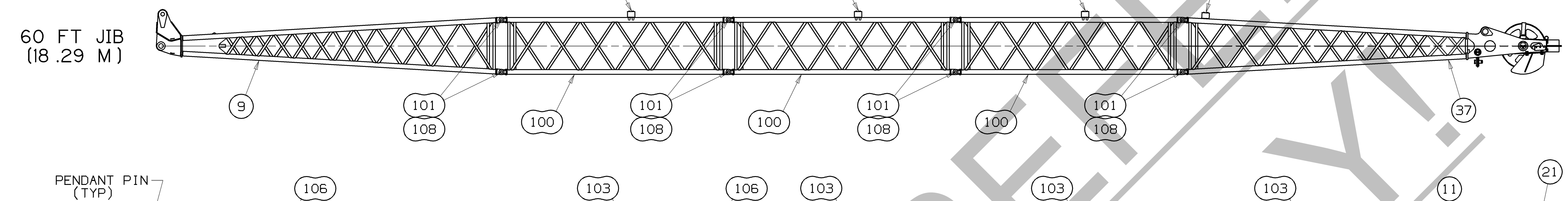
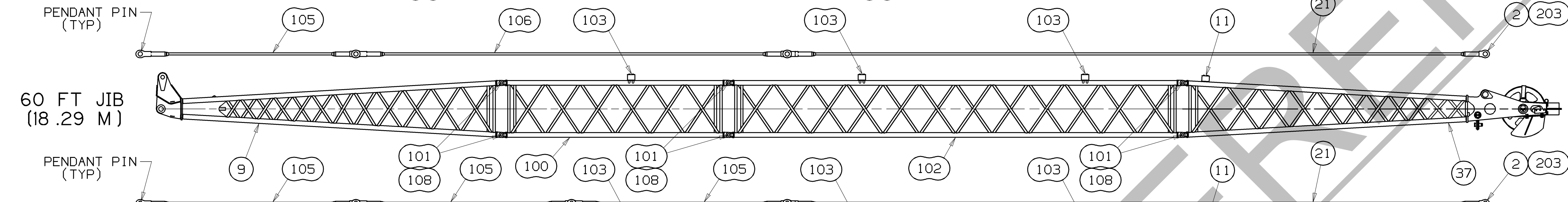
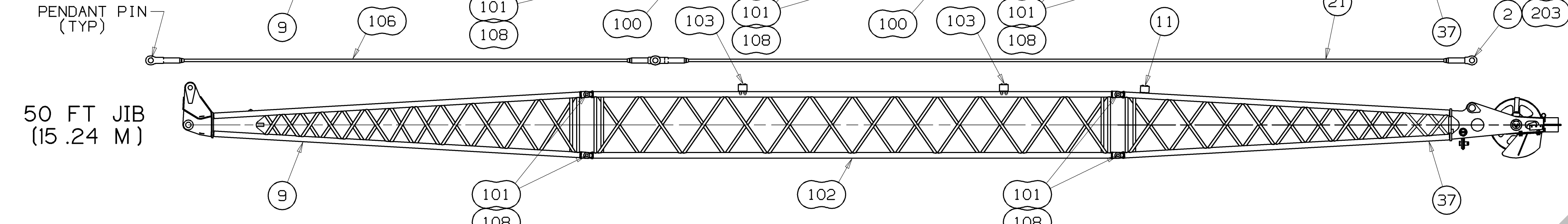
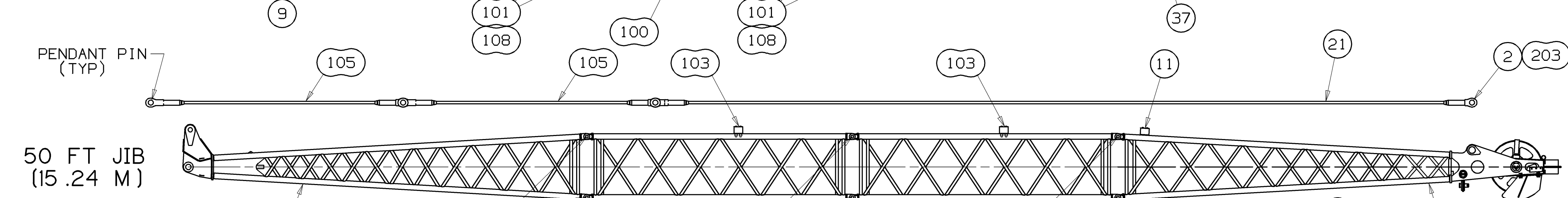
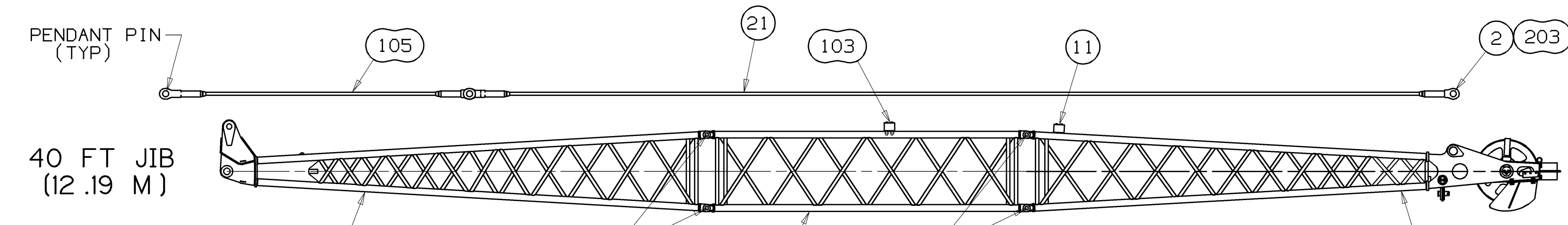
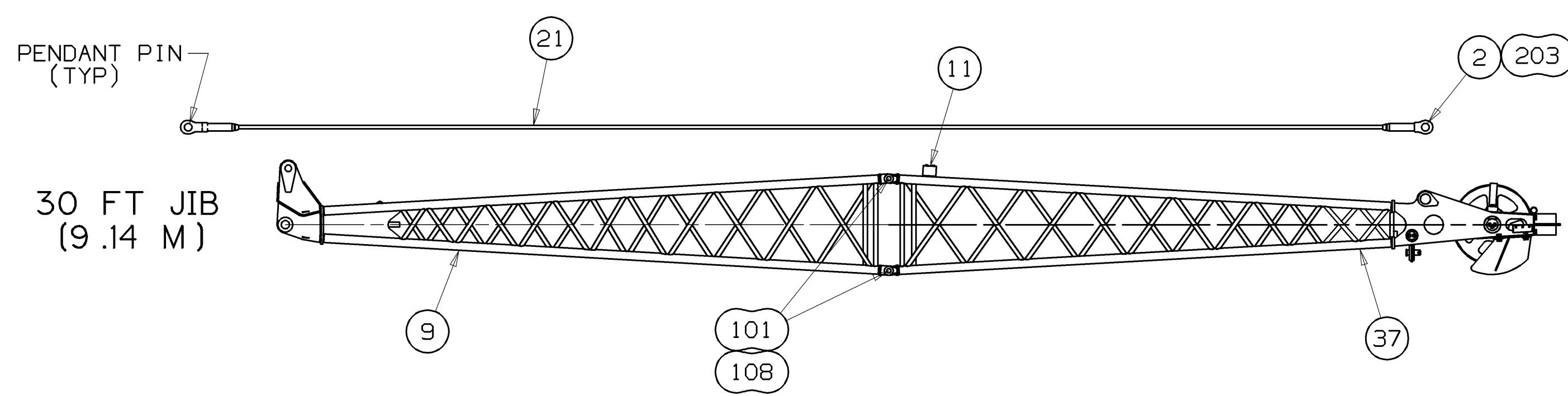
DWG. NO.
A16462
SHT 2 OF 3

PRIVATE LABELING REQUIREMENT TO CONFORM TO SPECIFICATION 6829103794 FOR COMPONENTS LISTED IN 6829103794

DATE
01-31-07

PATTERN NO.

THIS PRINT REMAINS THE PROPERTY OF MANITOWOC CRANES, INC. ALL INFORMATION CONTAINED THEREIN IS CONFIDENTIAL. IT IS LOANED, SUBJECT TO RETURN UPON DEMAND, AND ON EXPRESS CONDITION THAT IT IS NOT TO BE COPIED OR USED DIRECTLY OR INDIRECTLY IN ANY MANNER THAT WOULD BE DETRIMENTAL TO OUR INTERESTS.	TOLERANCE UNLESS OTHERWISE SPECIFIED	FABRICATION	MACHINING	SCALE	NOTED	Manitowoc Cranes, Inc.	JIB FIXED ASSY
DECIMAL PLACES	± .000	± .005	± .010	10 FEET	10 FEET	DR. RHV	
(1) PLACE	0.00	± .005	± .010	± .015	± .020	CK. RJW	MODEL 14000
(2) PLACE	0.000	± .005	± .010	± .015	± .020	APP. HCS	#134 FOR #76 BOOM
(3) PLACE	0.0000	± .005	± .010	± .015	± .020		
ANGLES	± .000	± .005	± .010	± .015	± .020		



BILL OF MATERIAL					ITEM NO.	REV.	DESCRIPTION	QUANTITY	MATERIAL	CODE NO.	OR DES. NO.	ASSEMBLIES USED ON

REVISIONS
04-25-07 RHV
A) PENDANT ITEM
21 WAS PINNED
AT STRUT
ITEM 36.
TYP ALL VIEWS

DWG. NO.
A16462
SHT 3 OF 3

TOLERANCE UNLESS OTHERWISE SPECIFIED				SCALE 3/8"=1'-0"		Manitowoc Cranes, Inc. Manitowoc, Wisconsin	JIB FIXED ASSY
DECIMAL PLACES	FRACTIONS	10 FEET	10 FEET	10 FEET	10 FEET		
(1) PLACE 0.0	±.12	±.18	±.05	±.05	±.05	DR. RHV	
(2) PLACE 0.00	±.06	±.12	±.015	±.015	±.015	CK. RJW	MODEL 14000
(3) PLACE 0.000	±.006	±.012	±.003	±.003	±.003	APP. HCS	#134 FOR #76 BOOM
ANGLES	±1°30'	±1°30'	±1°30'	±1°30'	±1°30'		

DO NOT SCALE THIS DRAWING

PRIVATE LABELING
REQUIREMENT TO
CONFORM TO
ENGINEERING
SPECIFICATION
6829103794 FOR
COMPONENTS LISTED
IN 6829103794
DATE
01-31-07
PATTERN NO.
A16462
SHT 3 OF 3