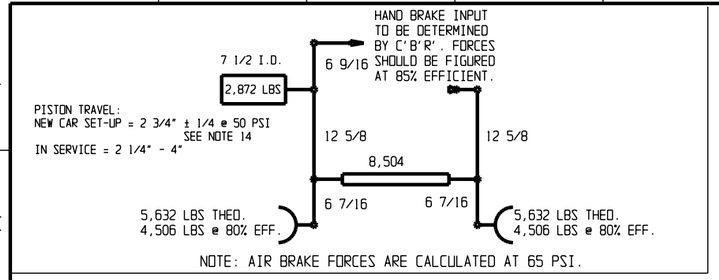
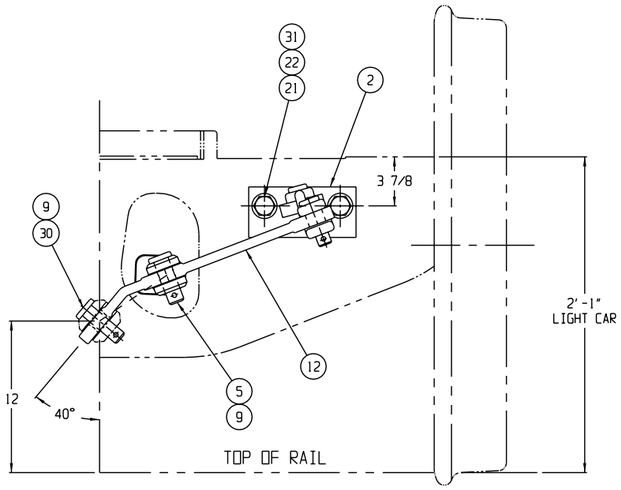
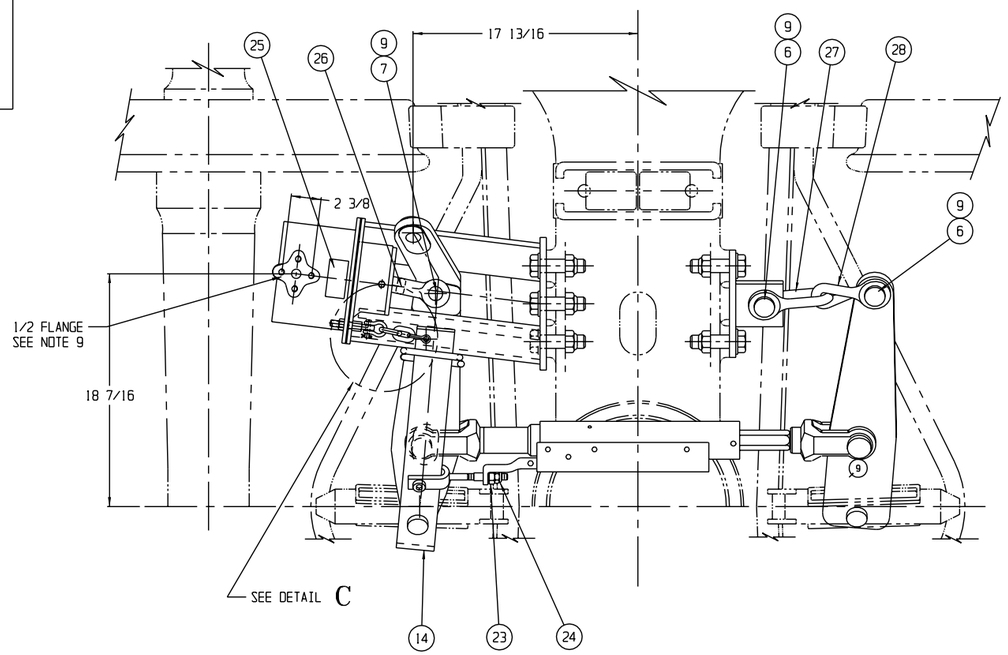
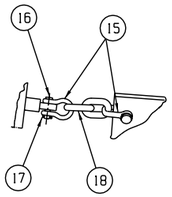


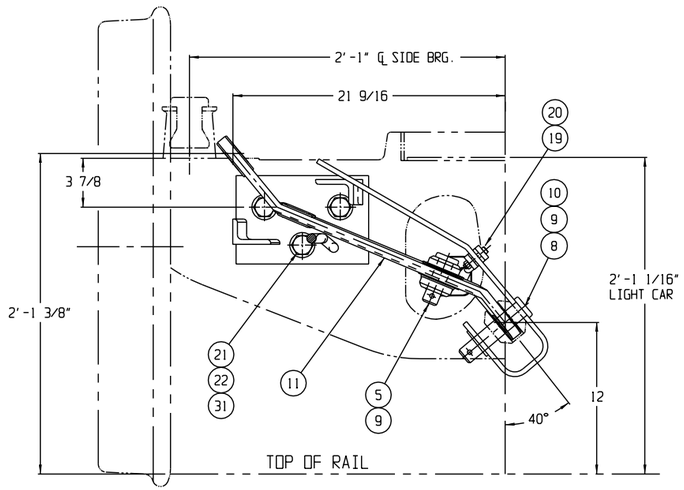


VIEW B

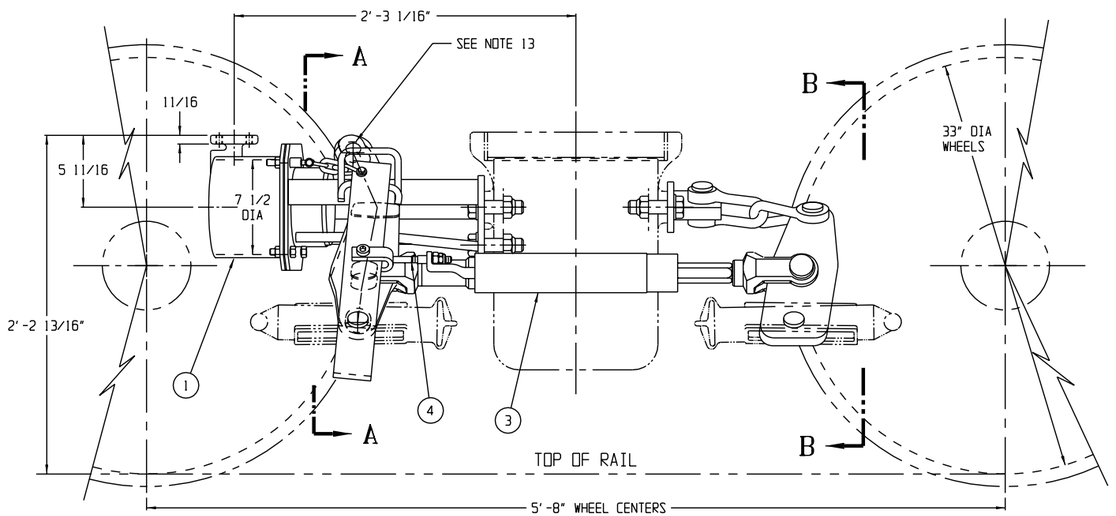




DETAIL C



SECTION A-A



COVERED BY PATENTS
U.S. 4312428
CANADA 1163931

REVISIONS			
LTR	DATE	DESCRIPTION	BY
J	1-4-95	REDRAWN ON CAD. IT 4 (P/N 9313) WAS 31139, IT 14 (P/N 33155-1) WAS 31157-1. IT 19 (P/N 4034-4) WAS 4493-8, IT 20 (P/N 30168) WAS 5340-4, IT 23 NUT 1/2-13 WAS NUT JAM-HEAVY 1/2-13. EOR 95-30	PL
K	7/25/95	DIMS: 2'-1 1/16" WAS 2'-1 3/4" (C13), 2'-1 3/8" WAS 2'-1 1/2" (C17), 18 7/16 WAS 18 1/16 (H12), 17 13/16 WAS 18 (K9). ADDED NOTE 13 & DIM 3 7/8 IN VIEW B & SEC. A-A. CHANGED NOTE 11, ITEM 29 WAS 1 REQ'D PER EOR #95-418.	PS
L	1-9-96	ADDED IT 31, P/N 30947 WAS 3443-33. EOR 96-11	LPS
M	1-29-96	P/N 31139 WAS 9313 IN B.O.M. PER EOR 96-44	LPS
N	6-18-97	ADDED NOTES TO SCHEMATIC, P/N 33158 WAS 30947, P/N 5340-4 WAS 30168, P/N 4493-8 WAS 4034-4, P/N 31157-1 WAS 33155-1 PER ECN #417	AKH
P	1-12-99	ADDED: IT. 32, & NOTE 14. IT. 9 WAS QTY 7 CHANGED AIR BRAKE FORCES (WERE BASED ON 50 PSI). PER ECN #1776	JT
Q	4-27-00	DRAWING TITLE WAS "70 TON APPLICATION" PER ECN #2713	JLF
R	09/22/06	IT 9 (P/N 4034-18) WAS 9008-2 AND IT 32 (P/N 4034-13) WAS 9008-3. PER ECN #2230	PS
S	10/13/06	DELETED ITEM 32 (P/N 4034-13). ITEM 9 WAS 5 REQ'D. PER ECN #2279	PS

NOTES:
1. SEE PURCHASE ORDER FOR DRAWING NO. SHOWING TRUCK MOUNTED BRAKE AND LEVER LOCATIONS.
2. QUANTITIES SHOWN ARE FOR ONE TRUCK-SET OF MATERIAL.
3. THIS TRUCK MOUNTED BRAKE IS DESIGNED FOR USE WITH NO. 24 BRAKE BEAMS. WHEN USING ANY OTHER BRAKE BEAMS CONTACT ELLCON NATIONAL.
4. BADGE PLATE WILL BE SUPPLIED BY CARBUILDER.
5. THESE PARTS TO BE SHIPPED AS AN ASSEMBLY P/N 31550.
6. TRUCK MOUNTED BRAKE IS SHOWN IN LIGHT CAR, BRAKE RELEASED, AT HAND BRAKE TRUCK WITH LIVE LEVER NO. 9548-2624
7. DO NOT LIFT USING ANY PART OF THE TRUCK MOUNTED BRAKE.
8. TORQUE NUTS (ITEM 22) TO 250-300 FT.LBS.
9. FOR AIR BRAKE CONNECTION THE CARBUILDER WILL USE (2) 1/2-13 UNC SELF LOCKING BOLTS.
10. THERE SHOULD BE SLACK ALLOWED IN HORIZONTAL CHAIN CONNECTION FOR A CAR TO NEGOTIATE A 180 FT. OR 150 FT. RADIUS CURVE FOR A.A.R. SPECIFICATION.
11. THE (2) PISTON TRAVEL INDICATOR DECALS ITEM 29 (P/N 32804) HAVE TO BE APPLIED BY THE CAR BUILDER TO EACH SIDE OF THE CAR IN THE CYLINDER AREA. THE DECALS ARE SHIPPED LOOSE.
12. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE NOMINAL.
13. CLEVIS, CLEVIS PIN AND COTTER PIN FOR HAND BRAKE CONNECTION WILL BE FURNISHED BY CAR BUILDER.
14. SEE ELLCON NATIONAL'S INSTALLATION AND FIELD SERVICE INSTRUCTIONS FOR SET-UP PROCEDURES.

SEE NOTE 11 ---

QTY.	PART NO.	DESCRIPTION	ITEM
5	3958-48	WASHER, PLAIN HARDENED 1"	31
1	30538-1	CLEVIS PIN 1 11/32 DIA X 3 TO ℄ HOLE	30
2	32804	P.T. INDICATOR DECAL	29
1	31411	CLEVIS (90° R.H. TWIST)	28
1	8819	CLEVIS	27
1	9894	PUSH ROD (PART OF ITEM 1)	26
1	30252	NAMEPLATE (PART OF ITEM 1)	25
1	4493-35	NUT, ESNA 1/2-13 (PART OF ITEM 3)	24
1	33158	CONTROL ARM NUT 1/2-13 (PART OF ITEM 3)	23
5	4493-31	NUT (ESNA) 1-8	22
5	3442-137	BOLT 1-8 UNC X 3 3/4 LG. (GR. 5)	21
1	5340-4	SHOULDER BOLT 3/8-16	20
1	4493-8	NUT (ESNA) 3/8-16	19
1	31439	CHAIN	18
SEE NOTE 5: 2	31438-3	COTTER PIN — ASS'Y P/N 31438	17
SEE NOTE 5: 2	31438-2	PIN — ASS'Y P/N 31438	16
SEE NOTE 5: 2	31438-1	SHACKLE — ASS'Y P/N 31438	15
1	31157-1	ACTUATOR LEVER	14
SEE NOTE 1: A/R	9547-4124	LIVE LEVER (NON HD. BRK. TRUCK)	13
SEE NOTE 1: A/R	9578-2124	DEAD LEVER	12
SEE NOTE 1: A/R	9548-2624	LIVE LEVER (HD. BRK. TRUCK)	11
1	3958-35	WASHER, PLAIN 1 3/8	10
7	4034-18	COTTER PIN, 3/8 DIA x 2 1/2 LG	9
1	30538-2	CLEVIS PIN 1 11/32 X 5 3/8 TO ℄ HOLE	8
1	30166-2	CLEVIS PIN 1 3/32 X 2 1/2 TO ℄ HOLE	7
2	30166-1	CLEVIS PIN 1 3/32 X 3 TO ℄ HOLE	6
2	30167-1	CLEVIS PIN 1 7/32 X 3 TO ℄ HOLE	5
1	31139	CONTROL ARM (PART OF ITEM 3)	4
1	7100-26R	SLACK ADJUSTER (DOUBLE ACTING)	3
1	30985-2	DEAD LEVER BRACKET	2
1	31210-2	BOLSTER SADDLE & CYLINDER ASS'Y.	1

BILL OF MATERIAL

THIS DOCUMENT AND ITS CONTENTS CONTAIN CONFIDENTIAL AND PROPRIETARY INFORMATION OWNED BY ELLCON-NATIONAL, INC. AND IT AND ALL COPIES THEREOF ARE TO BE RETURNED TO ELLCON-NATIONAL WHEN SO REQUESTED. THIS DOCUMENT OR ANY PART THEREOF SHALL NOT BE REPRODUCED, COPIED, OR TRANSMITTED ELECTRONICALLY. THE INFORMATION CONTAINED HEREIN SHALL NOT BE DISCLOSED BY THE RECIPIENT TO OTHERS OR USED BY RECIPIENT WITHOUT THE PRIOR WRITTEN CONSENT SPECIFIC TO EACH CASE. ELLCON-NATIONAL, INC.

MATERIAL:
WEIGHT: 210 LBS PER TMB WITH HANDBRAKE LEVER (LESS BRAKE BEAMS, SHOES, KEYS AND CYLINDER HOSE)

ELLCON NATIONAL
50 BEECHTREE BLVD. GREENVILLE, S.C. 29605

70 TON ASSEMBLY
MODEL 8500
TRUCK MOUNTED BRAKE

SCALE 2" = 1'-0" | DATE 3-7-89 | REV.
DRAWN DS | CHECKED DMS | TMB-263-R | S