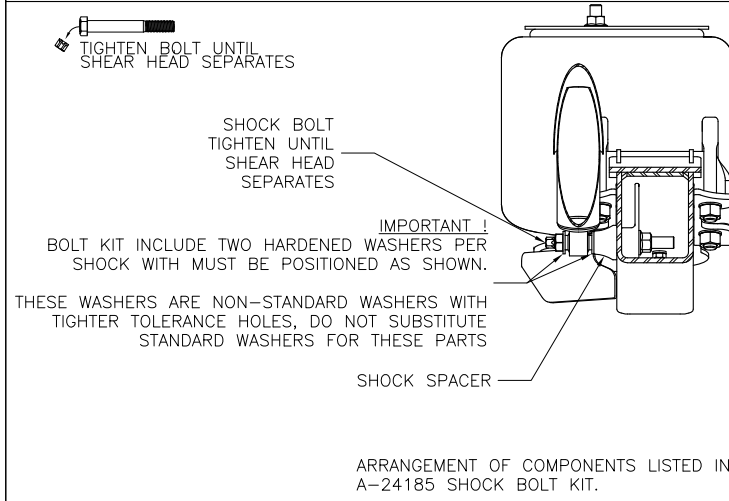


VIEW XX

INSTALLATION OF AIR SPRING PLATES

LOWER SHOCK MOUNTING ILLUSTRATION



GROUND CLEARANCE

TO CALCULATE GROUND CLEARANCE, SUBTRACT "J" FROM LOADED TIRE RADIUS.

RIDE HEIGHT	"J"
5.5	9.05
6.5	9.57
7.5	9.05
9.0	9.81
12.0	10.29
14.0	10.29
17.0	10.29

CHART BB TORQUE SPECIFICATIONS

DESCRIPTION	SIZE	TORQUE (FT LB)
SHOCK BOLTS, UPPER	3/4-10	210-235
*SHOCK BOLTS, LOWER	3/4-10	210-235
AIR SPRING NUTS, UPPER	3/4-16	80-100
AIR SPRING BOLTS, LOWER	1/2-13	40-50
U-BOLTS	7/8-14	475-525

*USE SHEAR HEAD BOLT TO ESTABLISH TORQUE.

CHART AA

	20", 22", 24" TIRES		19.5" TIRES	
	RIDE HEIGHT	DIM "L"	RIDE HEIGHT	DIM "L"
ALL TRAVELS STD SHOCK MOUNT WELD-ON AND BOLT-ON	5.5	(1.00)	5.5	(1.00)
	6.5	(1.00)	6.5	(1.00)
	7.5	(1.00)	7.5	(1.00)
	9.0	(1.00)	9.0	(1.00)
	12.0	(1.00)	12.0	(1.00)
ALL TRAVELS REMOTE SHOCK MOUNT WELD-ON	14.0	(1.00)	14.0	(1.00)
	17.0	(1.00)	17.0	(1.00)
	5.5	(2.25)	5.5	(1.94)
	6.5	(2.49)	6.5	(2.16)
	7.5	(2.28)	7.5	(1.97)
	9.0	(2.63)	9.0	(2.30)
	12.0	(2.85)	12.0	(2.50)
	14.0	(2.85)	14.0	(2.50)
	17.0	(2.85)	17.0	(2.50)

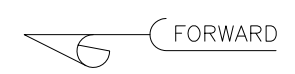
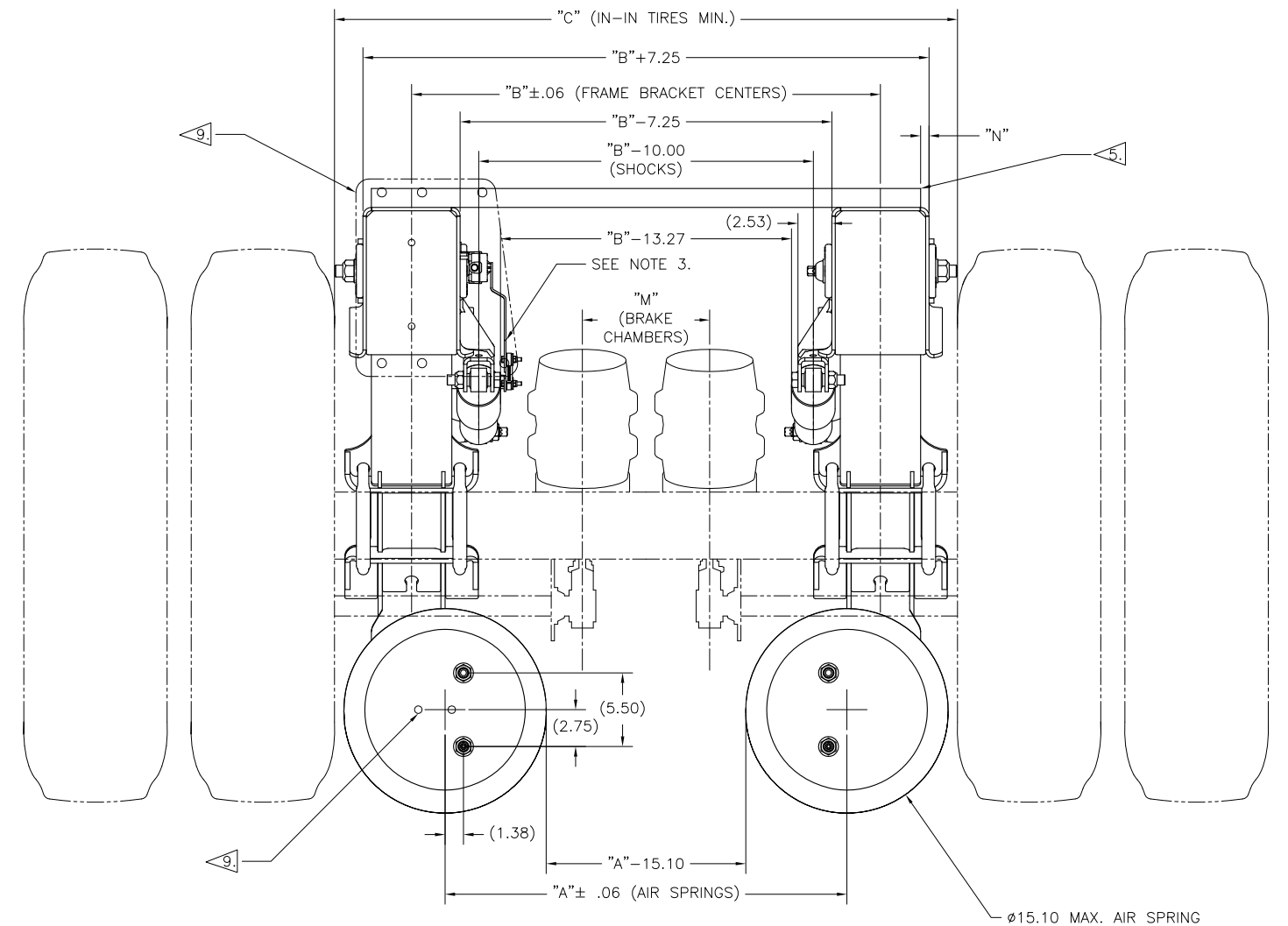
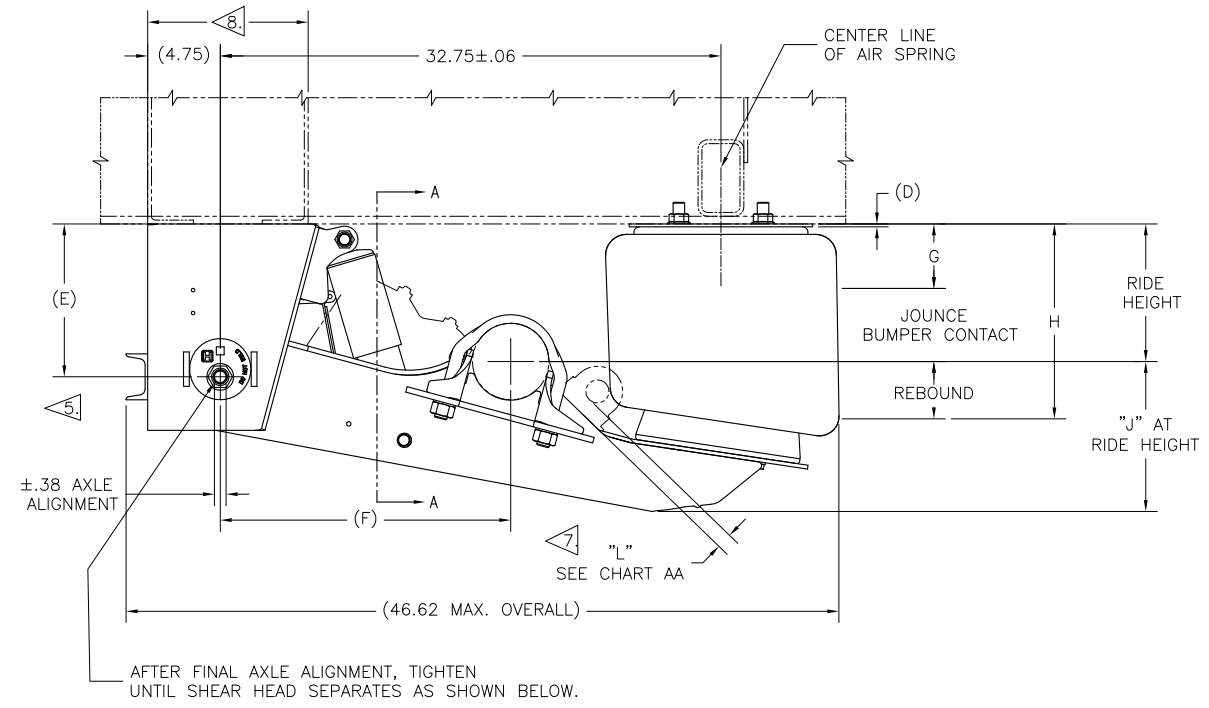
CHART CC

TRAILER WIDTH (IN)	96.0	102.0
DIMENSION "A" (IN)	30.00	36.00
DIMENSION "B" (IN)	35.00	41.00
DIMENSION "C" (IN)	46.50	52.50
DIMENSION "M" (IN)	9.5 MAX.	15.5 MAX.
DIMENSION "N" (IN)	.63	3.63

- NOTES:**
- SEE L-577 HT INSTALLATION INSTRUCTIONS FOR INFORMATION ON ASSEMBLY, WELDING PROCEDURE AND ALIGNMENT.
 - SEE SERVICE MANUAL FOR INFORMATION CONCERNING MAINTENANCE PROCEDURES.
 - SEE L-1182 FOR HEIGHT CONTROL KIT OPTIONS.
 - SEE CHART BB FOR TORQUE SPECIFICATIONS OF FASTENERS.
 - SEE PAGE 4 FOR C-CHANNEL AND FRAME BRACKET BRACE MOUNTING REQUIREMENTS.
 - RECOMMENDED BRAKE CAMSHAFT AND BRAKE CHAMBER LOCATIONS LISTED IN CHART AA ARE FOR REFERENCE ONLY AND MAY VARY SLIGHTLY BASED ON AXLE MANUFACTURERS RECOMMENDATIONS.
 - AN S-CAM "L" POSITION OF 1.00" IS SHOWN TO PROVIDE CLEARANCE AROUND THE BRAKE CHAMBER FOR ACCESS TO THE LOWER SHOCK BOLT WITH AN IMPACT WRENCH. THE S-CAM CANNOT BE POSITIONED FOR SHOCK BOLT CLEARANCE ON 5.5" AND 6.5" RIDE HEIGHTS DUE TO INTERFERENCE BETWEEN THE BRAKE CHAMBER AND THE TRAILER FRAME AT FULL JOUNCE. SEE PAGE 3 FOR S-CAM ORIENTATION WHEN USING CL LIFT KITS.
 - SEE PAGE 5 AND 6 FOR FRAME BRACKET CROSSMEMBER LOCATIONS AND MOUNTING DETAILS. ACTUAL SIZE AND SHAPE MAY VARY WITH TRAILER DESIGN. IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE PROPER STRUCTURAL ADEQUACY OF TRAILER FRAME AND CROSSMEMBERS.
 - SEE PAGE 7 FOR BOLT-ON MOUNTING PATTERN.
 - SUSPENSION CAPACITY: 30,000 LBS. @ GROUND. SUSPENSION CAPACITY ONLY INCLUDES THE SUSPENSION AS SUPPLIED BY HENDRICKSON. CAPACITY RATINGS OF AXLE, BRAKES, TIRES, WHEELS, ETC. MAY LIMIT THE OVERALL CAPACITY OF THE SYSTEM.

- CLEARANCE SPECIFICATIONS:**
- 1.0 INCH MINIMUM REQUIRED BETWEEN TOP OF TIRE AND BOTTOM OF TRAILER STRUCTURE WHEN AXLE IS AT FULL JOUNCE.
 - 2.0 INCHES MINIMUM REQUIRED BETWEEN INSIDE OF TIRE AND TRAILER STRUCTURE FOR LATERAL MOVEMENT.
 - 1.0 INCH MINIMUM CLEARANCE MUST BE MAINTAINED AROUND AIR SPRING WHEN IT IS AT MAXIMUM DIAMETER.

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STANDARD TRAVEL HT300US

	RIDE HEIGHT	JOUNCE	REBOUND	BUMPER CONTACT	D	E	F	G	H	RIDE HEIGHT TOLERANCE LIMITS		SUSP. WEIGHT (LB)
										MIN.	MAX.	
WELD-ON STANDARD SHOCK MOUNT	5.5	2.0	4.7	1.4	.19	8.0	18.86	3.5	10.2	5.5	7.2	389
	6.5	3.0	3.7	2.4	.19	8.0	18.97	3.5	10.2	5.5	7.2	389
	7.5	3.1	6.0	2.6	.19	10.0	18.86	4.4	13.5	7.5	10.5	406
	9.0	4.6	4.5	4.1	.19	10.0	19.00	4.4	13.5	7.5	10.5	406
	12.0	4.9	4.0	4.3	3.50	12.0	19.03	7.1	16.0	10.0	13.0	427
	14.0	5.0	4.0	4.4	5.31	14.0	19.03	9.0	18.0	12.0	15.0	448
BOLT-ON STANDARD SHOCK MOUNT	5.5	1.8	5.1	1.2	.25	8.38	18.81	3.7	10.6	5.5	7.6	419
	6.5	2.8	4.1	2.2	.25	8.38	18.93	3.7	10.6	6.5	7.6	419
	7.5	2.9	6.4	2.4	.25	10.38	18.81	4.6	13.9	7.5	10.9	437
	9.0	4.4	4.9	3.9	.25	10.38	18.98	4.6	13.9	7.5	10.9	437
	12.0	4.6	4.2	4.1	3.56	12.5	19.02	7.4	16.2	10.4	13.2	467
WELD-ON REMOTE SHOCK MOUNT	5.5	2.0	4.0	1.4	.19	8.0	18.86	3.5	9.5	5.5	6.5	391
	6.5	3.0	3.0	2.4	.19	8.0	18.97	3.5	9.5	6.5	6.5	391
	7.5	3.1	4.4	2.6	.19	10.0	18.86	4.4	11.9	7.4	9.0	408
	9.0	4.6	2.9	4.1	.19	10.0	19.00	4.4	11.9	7.4	9.0	408
	12.0	4.9	2.7	4.3	3.50	12.0	19.03	7.1	14.7	10.1	12.0	429
	14.0	5.0	3.5	4.4	5.31	14.0	19.03	9.0	17.5	12.0	14.5	453
17.0	5.5	3.3	5.0	7.31	17.0	19.03	11.5	20.3	14.5	20.3	479	

LIMITED JOUNCE TRAVEL HT300US

	RIDE HEIGHT	JOUNCE	REBOUND	BUMPER CONTACT	D	E	F	G	H	RIDE HEIGHT TOLERANCE LIMITS		SUSP. WEIGHT (LB)
										MIN.	MAX.	
WELD-ON STANDARD SHOCK MOUNT	6.5	2.5	3.7	1.9	1.13	8.0	18.97	4.0	10.2	6.5	7.2	397
	7.5	2.6	6.0	2.0	1.13	10.0	18.86	4.9	13.5	7.5	10.5	414
	9.0	3.5	4.5	2.9	2.25	10.0	19.00	5.5	13.5	8.5	10.5	417
	12.0	3.9	4.0	3.3	5.31	12.0	19.03	8.1	16.0	11.1	13.0	434
	14.0	3.9	4.0	3.3	7.31	14.0	19.03	10.1	18.0	13.1	15.0	456
BOLT-ON STANDARD SHOCK MOUNT	6.5	2.3	4.1	1.7	1.19	8.38	18.93	4.2	10.6	6.5	7.6	426
	7.5	2.4	6.4	1.8	1.19	10.38	18.81	5.1	13.9	7.5	10.9	445
	9.0	3.3	4.9	2.7	2.31	10.38	18.98	5.7	13.9	8.7	10.9	446
WELD-ON REMOTE SHOCK MOUNT	6.5	2.5	3.0	1.9	1.13	8.0	18.97	4.0	9.5	6.5	6.5	400
	7.5	2.6	4.3	2.0	1.13	10.0	18.86	4.9	11.8	7.5	8.8	417
	9.0	3.5	2.9	2.9	2.25	10.0	19.00	5.5	11.9	7.5	9.0	419
	12.0	3.9	2.7	3.3	5.31	12.0	19.03	8.1	14.7	11.1	12.0	436
	14.0	3.9	3.4	3.3	7.31	14.0	19.03	10.1	17.4	10.1	14.4	461
17.0	4.5	3.3	3.9	9.25	17.0	19.03	12.5	20.3	15.5	17.8	487	

EXTENDED REBOUND TRAVEL HT300US

	RIDE HEIGHT	JOUNCE	REBOUND	BUMPER CONTACT	D	E	F	G	H	RIDE HEIGHT TOLERANCE LIMITS		SUSP. WEIGHT (LB)
										MIN.	MAX.	
WELD-ON STANDARD SHOCK MOUNT	6.5	3.0	5.1	2.4	.19	8.0	18.97	3.5	11.6	6.50	8.6	389
WELD-ON REMOTE SHOCK MOUNT	6.5	3.0	5.2	2.4	.19	8.0	18.97	3.5	11.7	6.50	8.7	395

NOTES:

- SUSPENSION WEIGHT INCLUDES SUSPENSION COMPONENTS ONLY. WEIGHT REFLECTS:
NO SHOCK STRAP KIT
WITH C-CHANNEL (LESS 14 LBS. WITHOUT C-CHANNEL)
STANDARD AIR SPRING MOUNTING\SPACER
- JOUNCE AND REBOUND DIMENSIONS CHANGE AS THE RIDE HEIGHT CHANGES FROM THE NOMINAL POSITION.
- DIMENSIONS "G" & "H" WILL REMAIN CONSTANT REGARDLESS OF RIDE HEIGHT VARIATION FROM NOMINAL POSITION.
RIDE HEIGHT - JOUNCE = "G"
RIDE HEIGHT + REBOUND = "H"
- FOR OPTIMUM SUSPENSION PERFORMANCE ALL SUSPENSIONS ON A TRAILER SHOULD BE AT DESIGNED RIDE HEIGHT WHEN THE TRAILER IS LOADED. TRAILERS WITH FLEXIBLE FRAMES REQUIRE SPECIAL ATTENTION TO MAKE SURE THEY OPERATE WITHIN THE RIDE HEIGHT TOLERANCE LIMITS, BOTH EMPTY AND LOADED. OPERATION OUTSIDE OF THE MAXIMUM AND/OR MINIMUM RIDE HEIGHT TOLERANCE LIMITS CAN REDUCE RIDE QUALITY AND SHORTEN SUSPENSION LIFE.
- VARIATION IN RIDE HEIGHT BETWEEN LIKE SUSPENSIONS MAY RESULT IN UNEQUAL LOADING OF THE AXLES.

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UNLESS OTHERWISE NOTED: TOLERANCES ARE:	INCHES		DRWN BY	K. ERDMANN	03-21-14
±	1	23624	JRH	10-22-14	CHK'D BY
±	0	22956	KLE	03-24-14	C. RADCLIFF
±					APPR'D BY
±					K. MCCOMSEY

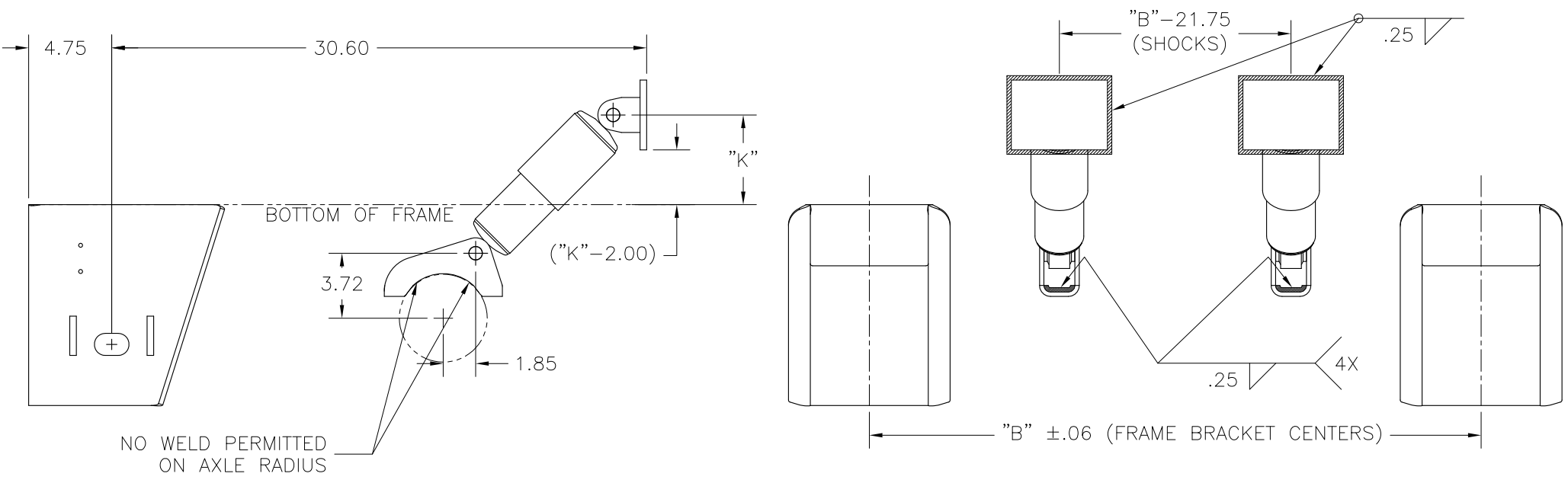
HT300US
INSTALLATION DRAWING

SCALE	.25=1.00	SIZE	D	PAGE	2 OF 7
DRAWING No.					D-33039

REMOTE SHOCK MOUNTING

(DIMENSIONS SHOWN ARE WITH AXLE AT RIDE HEIGHT)

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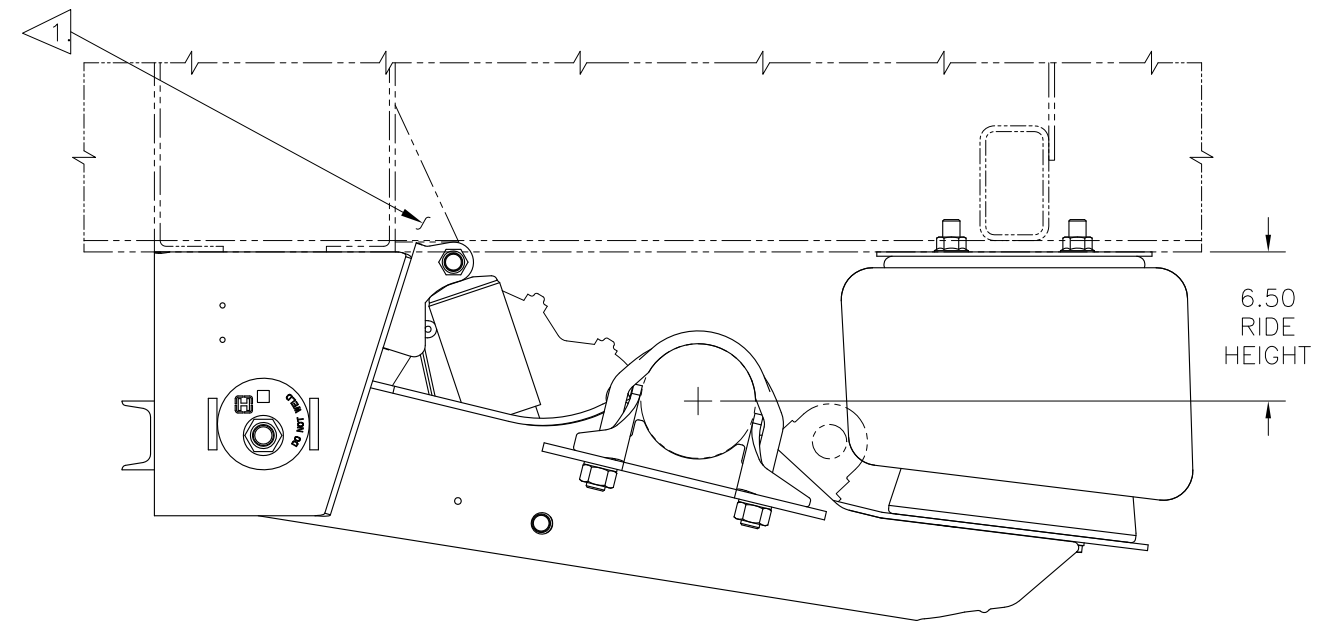
NO WELD PERMITTED ON AXLE RADIUS

NOTES:
1. DENOTES WELD PLACEMENT.

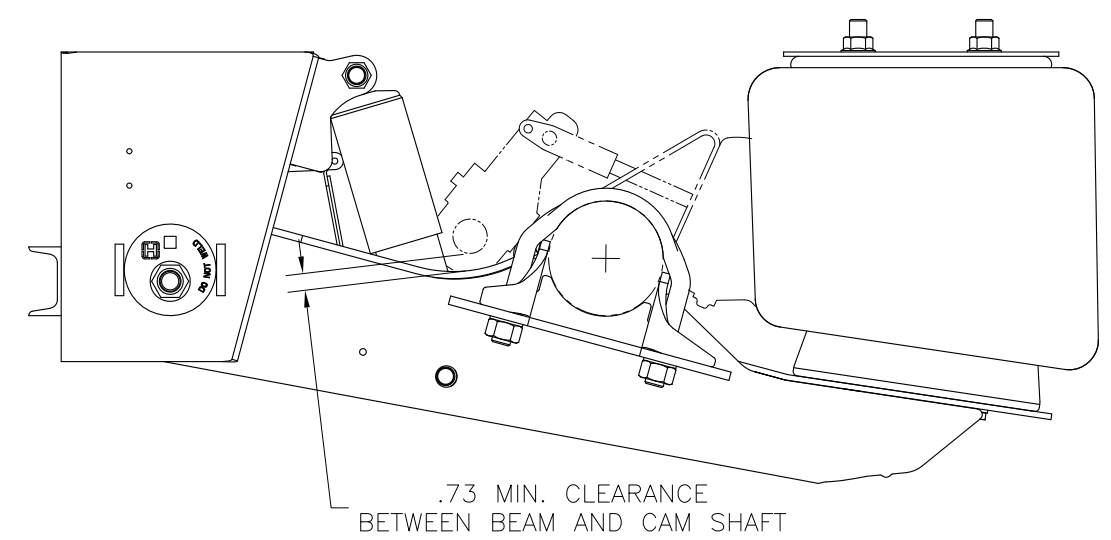
CHART DD - DIMENSION "K"							
RIDE HEIGHT	5.5	6.5	7.5	9.0	12.0	14.0	17.0
STANDARD TRAVEL	5.13	5.13	5.75	5.75	2.88	4.88	2.00
LIMITED JOUNCE	N\A	5.13	5.75	5.75	2.88	4.88	2.00
EXTENDED REBOUND	N\A	10.50	N\A	N\A	N\A	N\A	N\A

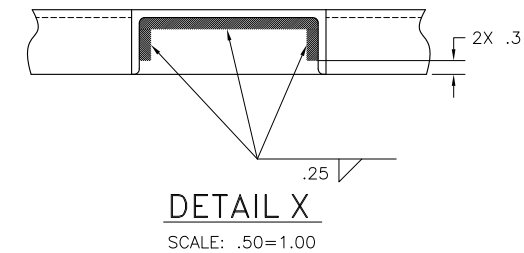
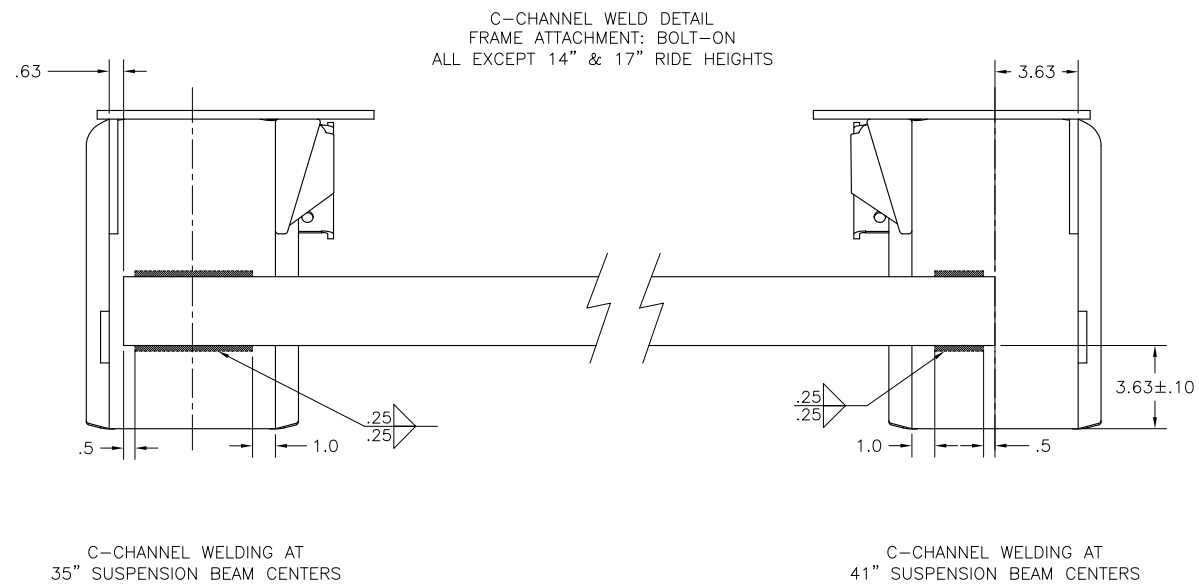
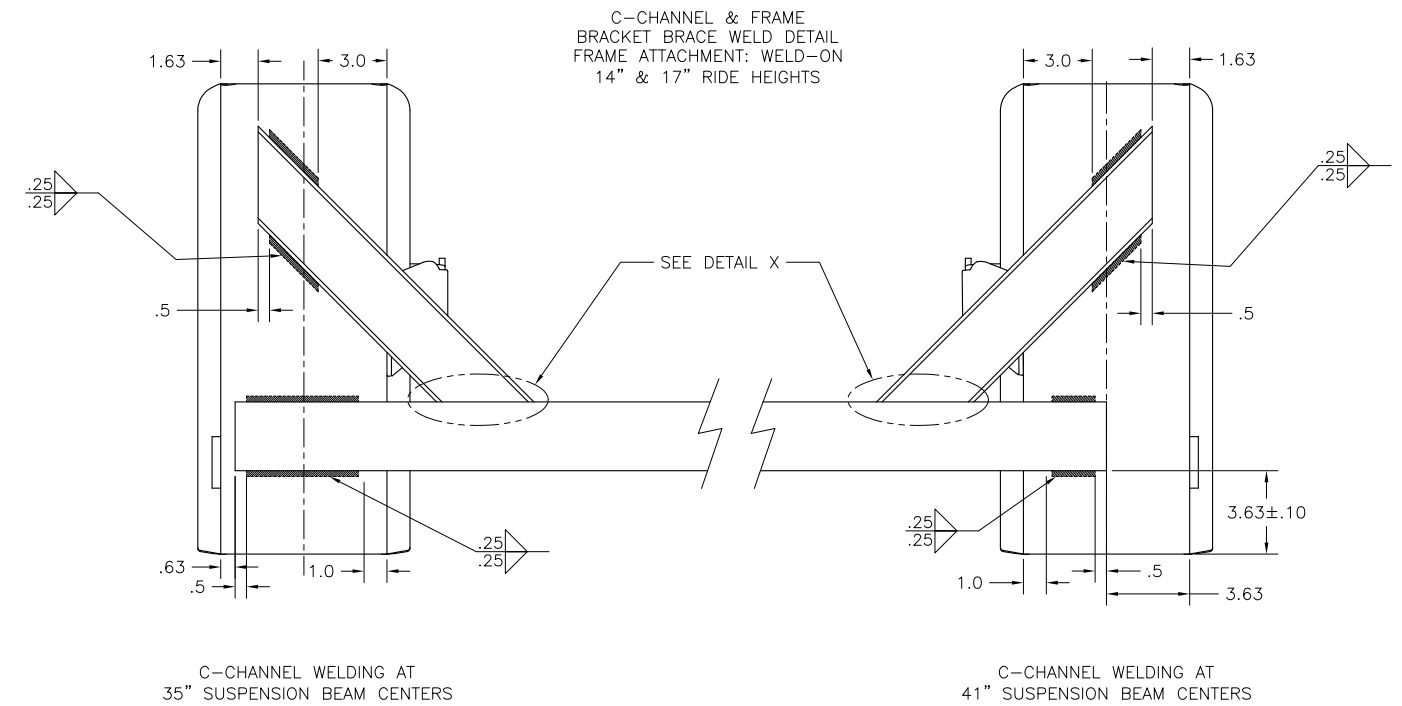
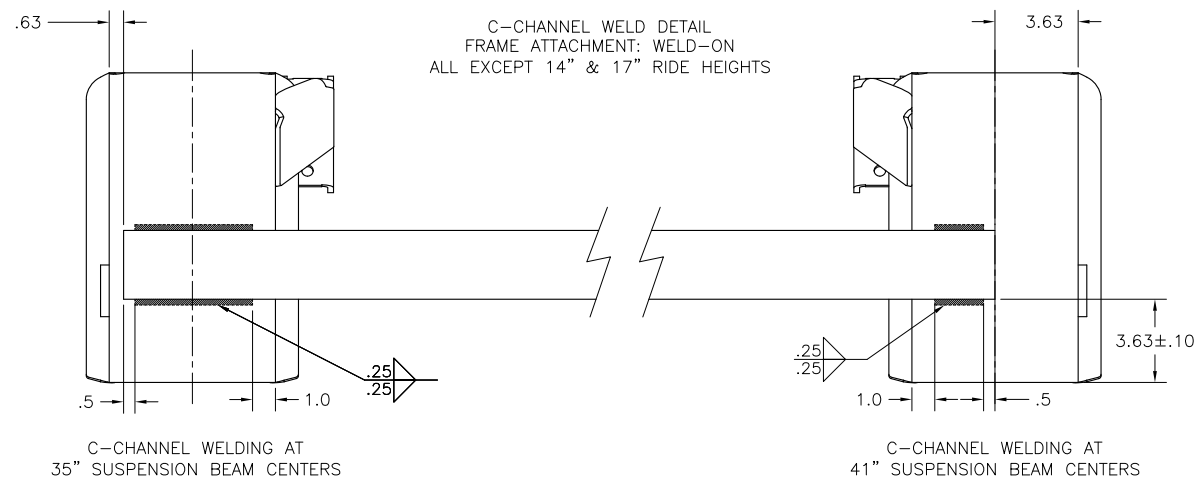
NOTES:
1. BECAUSE THE SHOCK IS NOT FULLY SUPPORTED BY THE FRAME BRACKET ASSEMBLY, THE INSTALLER MUST REINFORCE THE CLEVIS TO THE TRAILER STRUCTURE. 8,000 LB. IS NORMALLY THE MAXIMUM LOAD AT THE SHOCK.

6.5 RIDE HEIGHT EXTENDED REBOUND WELD-ON MOUNTING INFORMATION



S-CAM ORIENTATION FOR CL LIFT KITS

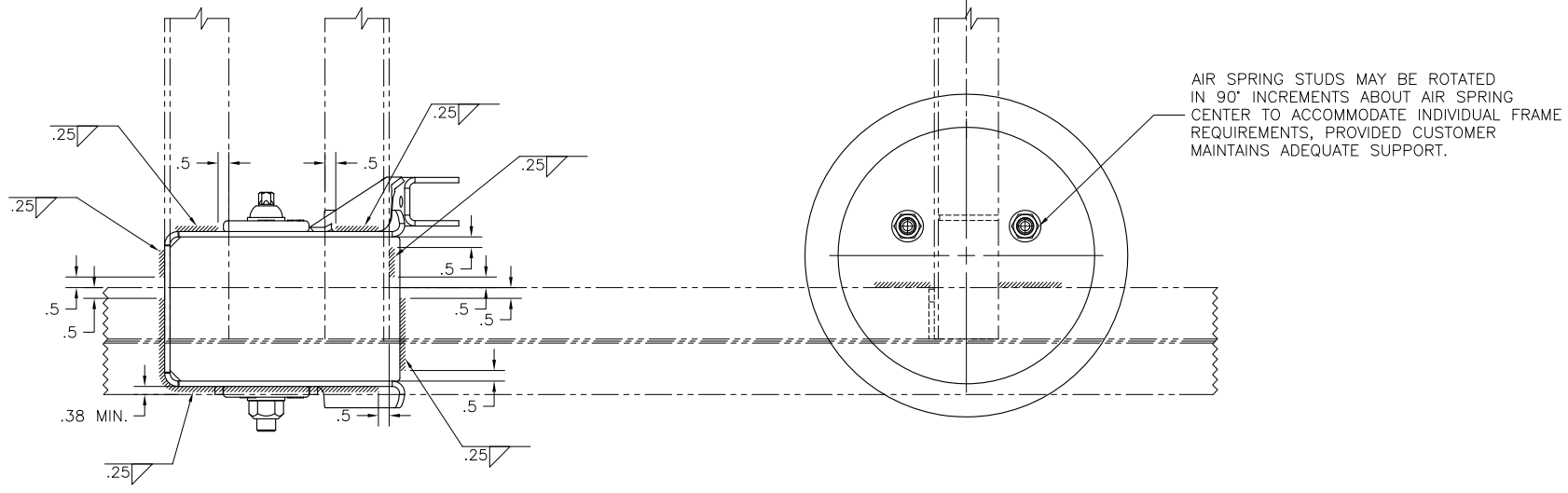
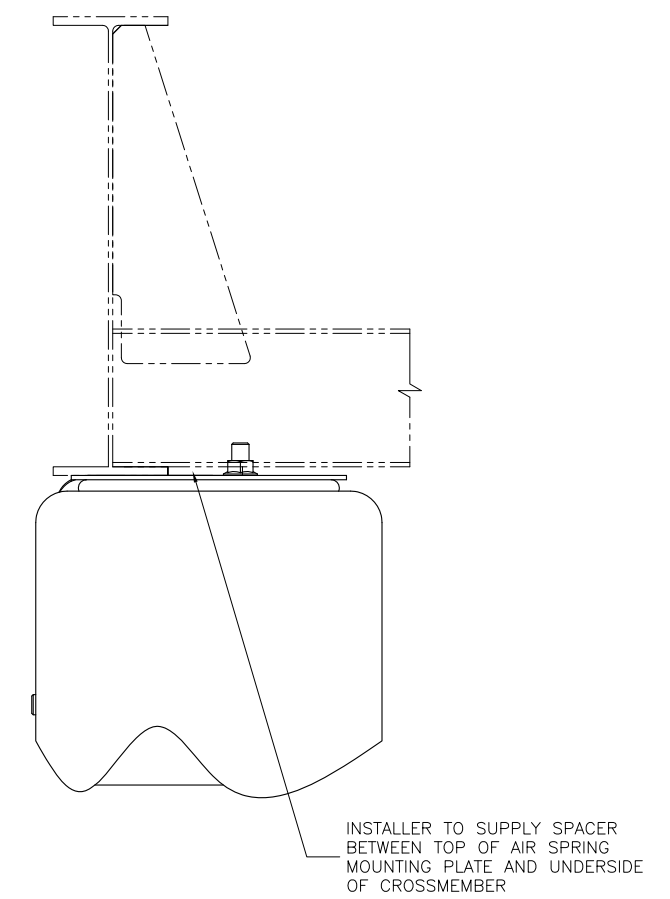
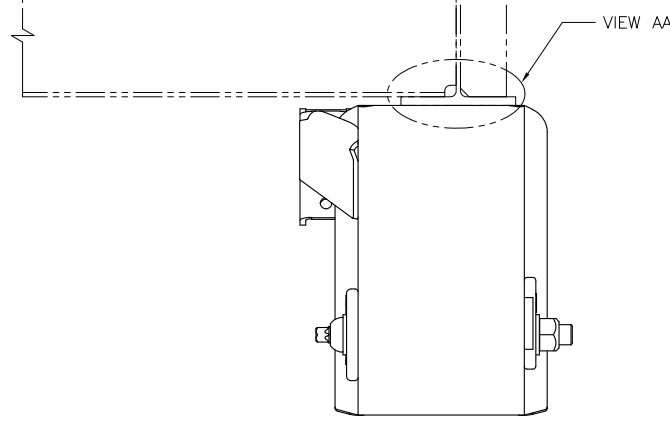
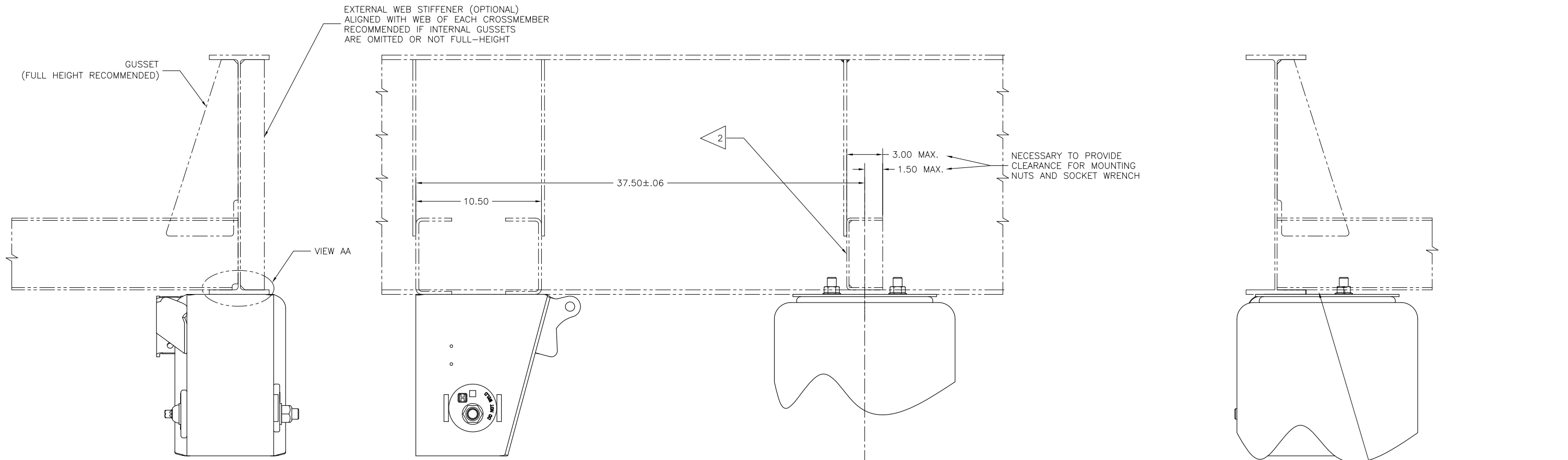




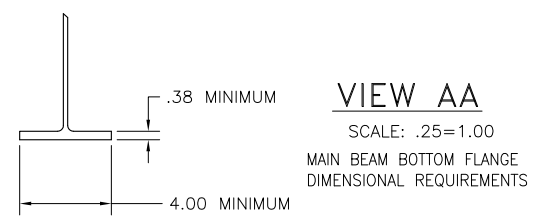
NOTES:

- FOR THIS SUSPENSION HENDRICKSON REQUIRES A 3 INCH C-CHANNEL AS SHOWN OR EQUIVALENT FOR PROPER SUPPORT. IF THE CUSTOMER PREFERS THAT HENDRICKSON DOES NOT SUPPLY THE CHANNEL, THEN THE CUSTOMER MUST REINFORCE THE SUSPENSION WITH A CHANNEL OF EQUAL OR GREATER STRENGTH OR A DESIGN THAT RESULTS IN EQUAL OR GREATER SUPPORT.
- ////// PATTERN DENOTES WELD PLACEMENT

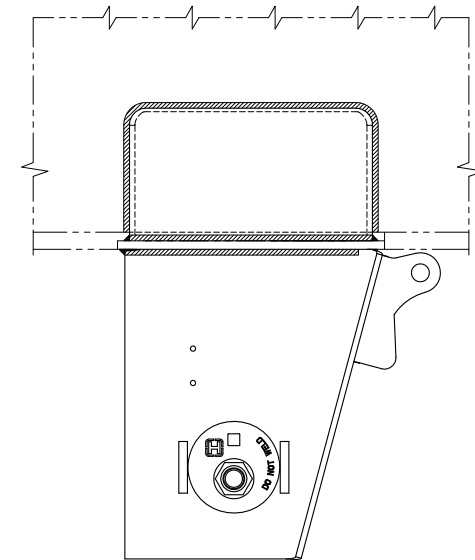
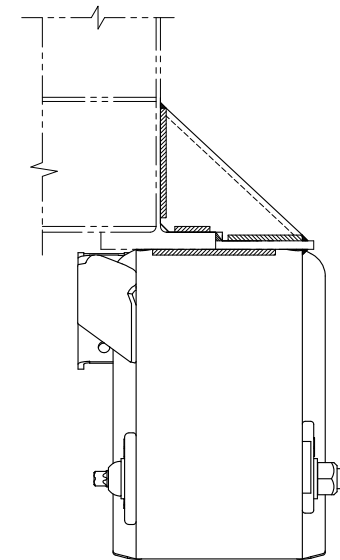
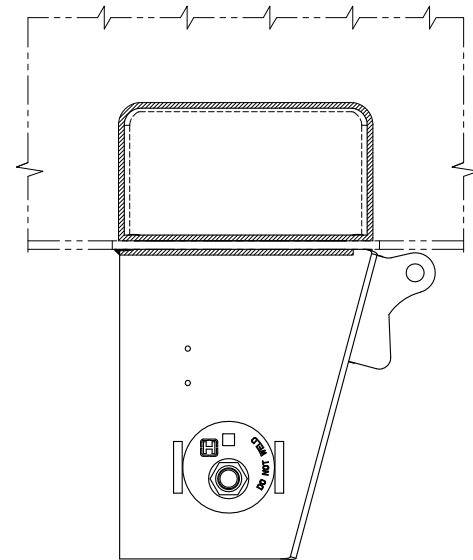
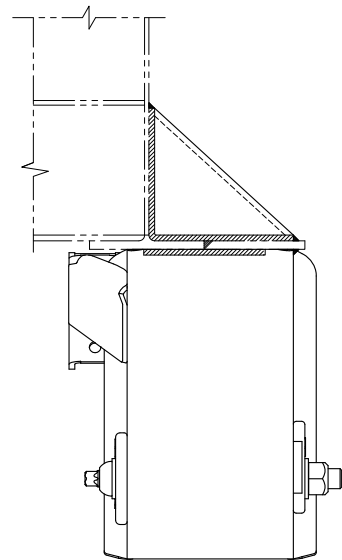
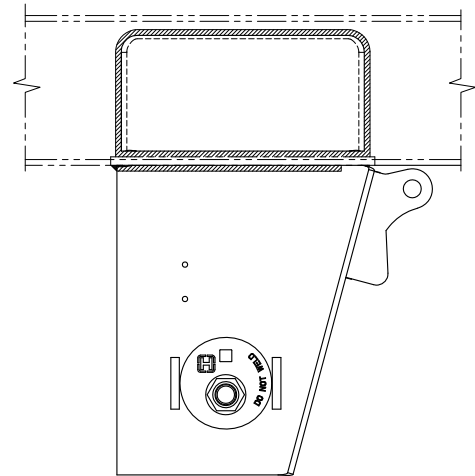
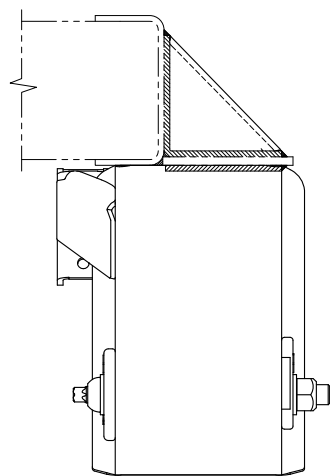
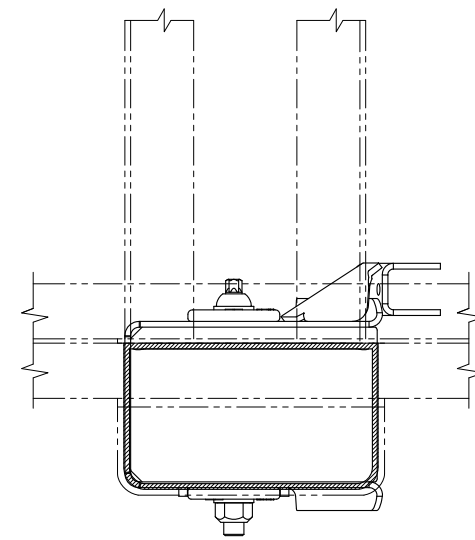
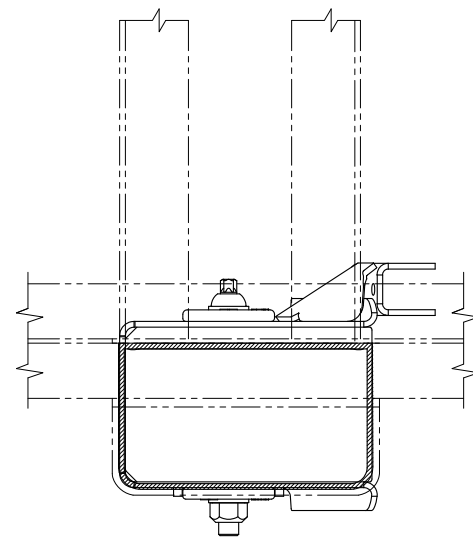
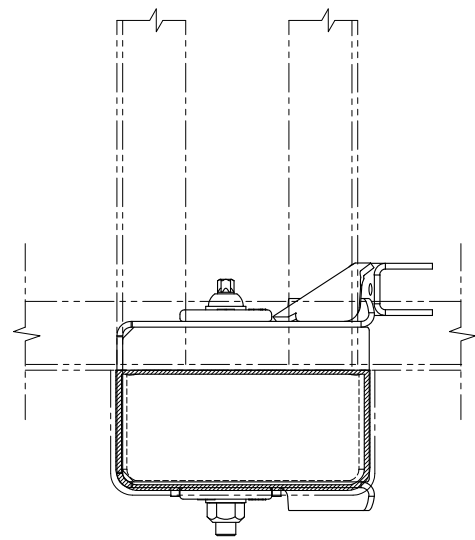
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- NOTES:**
1. PATTERN DENOTES WELD PLACEMENT
 2. CROSSMEMBER AND/OR GUSSETS MUST ADEQUATELY SUPPORT UPPER AIR SPRING PLATE. 20,000 LBS. CAN BE EXERTED THROUGH AIR SPRING BUMPER



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CHANNEL

THIN FLANGE I-BEAM

THICK FLANGE I-BEAM

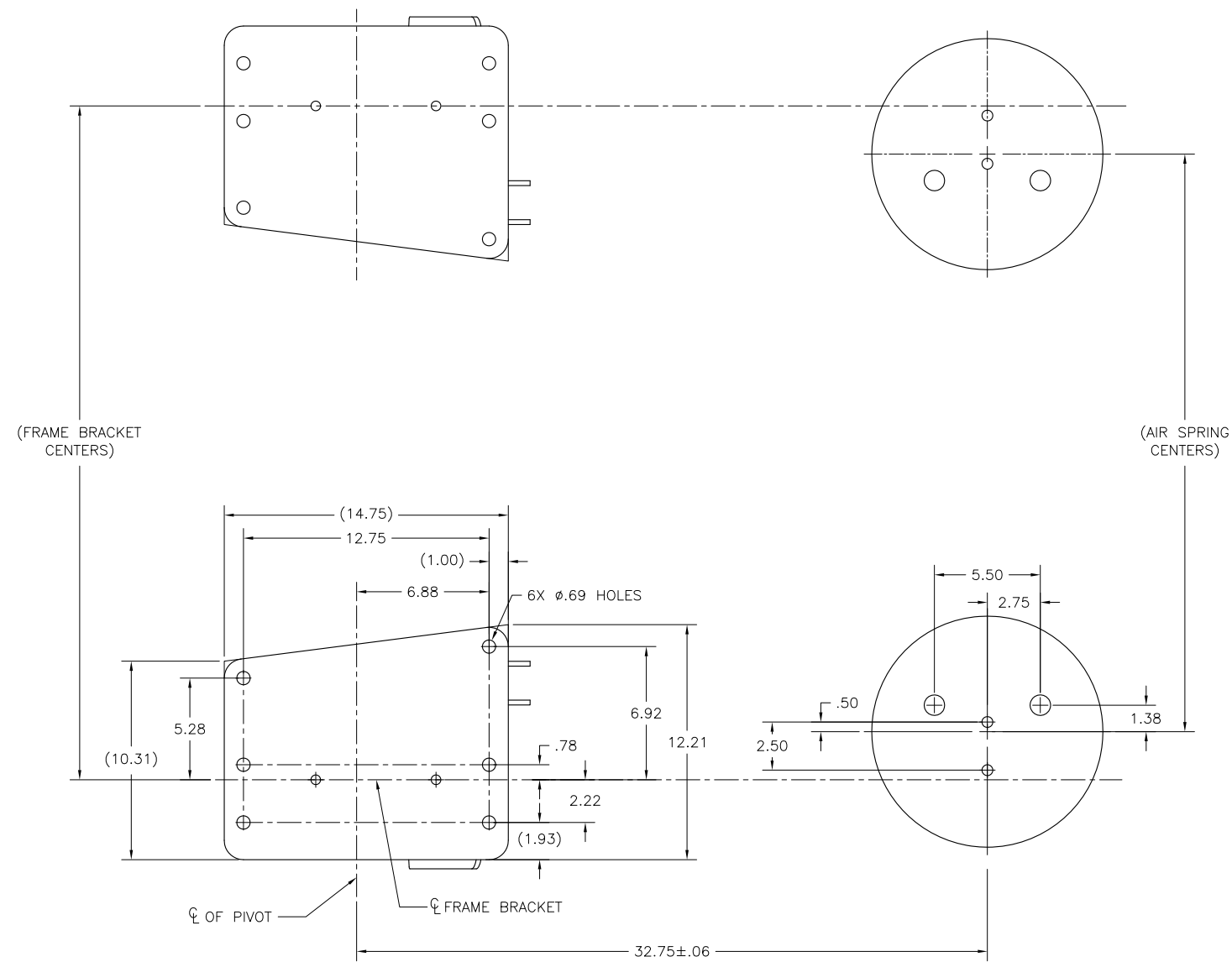
SUGGESTED METHOD OF SUPPORTING
FRAME BRACKET OVERHANG

NOTES:

- 1. PATTERN DENOTES WELD PLACEMENT.

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 TRAILER COMMERCIAL VEHICLE SYSTEMS 2070 INDUSTRIAL PLACE S.E., CANTON, OH 44707-2600 U.S.A.	UNLESS OTHERWISE NOTED: TOLERANCES ARE:		DIMENSIONS ARE:		DRAWN BY K. ERDMANN	03-21-14	HT300US INSTALLATION DRAWING	SCALE .25=1.00	SIZE D	PAGE 6 OF 7
	.X: ± .XX: ± .XXX: ± ANGULAR: ±	.1 .01 .005	INCHES 3RD ANGLE PROJECTION	1 0 0	23624 22956 HLE	JRH HLE		10-22-14 03-24-14	CHK'D BY C. RADCLIFF	THIS DRAWING IS THE CONFIDENTIAL PROPERTY OF HENDRICKSON



NOTES:

- HENDRICKSON STANDARD COMPACT BOLT PATTERN SHOWN.

ALTERNATE AIR SPRING MOUNTING PLATE SHAPE (ONLY WHEN SPACER IS USED)

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