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### CAUTION

#### APPLICATION RECOMMENDATIONS

▲ RIDE HEIGHT TOLERANCES MUST NOT BE EXCEEDED TO MAINTAIN PROPER CASTER ANGLE FOR OPTIMUM OPERATIONAL 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 THE SUSPENSIONS OPERATE WITHIN THE APPROVED RIDE HEIGHT RANGE IN EMPTY AND LOADED CONDITIONS. OPERATION OUTSIDE OF THE RIDE HEIGHT RANGE CAN REDUCE RIDE QUALITY, SHORTEN SUSPENSION LIFE, AND MAY RESULT IN UNEQUAL LOADING OF THE AXLES.

WHEN AIR IS DUMPED ON LEVEL GROUND ALL PRIMARY SUSPENSIONS MUST REACH BUMPER CONTACT HEIGHT BEFORE THE CONNEX ST SUSPENSION REACHES IT'S BUMPER CONTACT HEIGHT.

WHEEL-CUT IS PRESET BY [H] PER CUSTOMERS REQUEST. IT IS THE INSTALLERS RESPONSIBILITY TO MAINTAIN NECESSARY CLEARANCES WITH SUSPENSION COMPONENTS AND TRAILER FRAME. THIS RESPONSIBILITY INCLUDES IF WHEEL-CUT STOP BOLT SETTING IS CHANGED FROM PRESET VALUE.

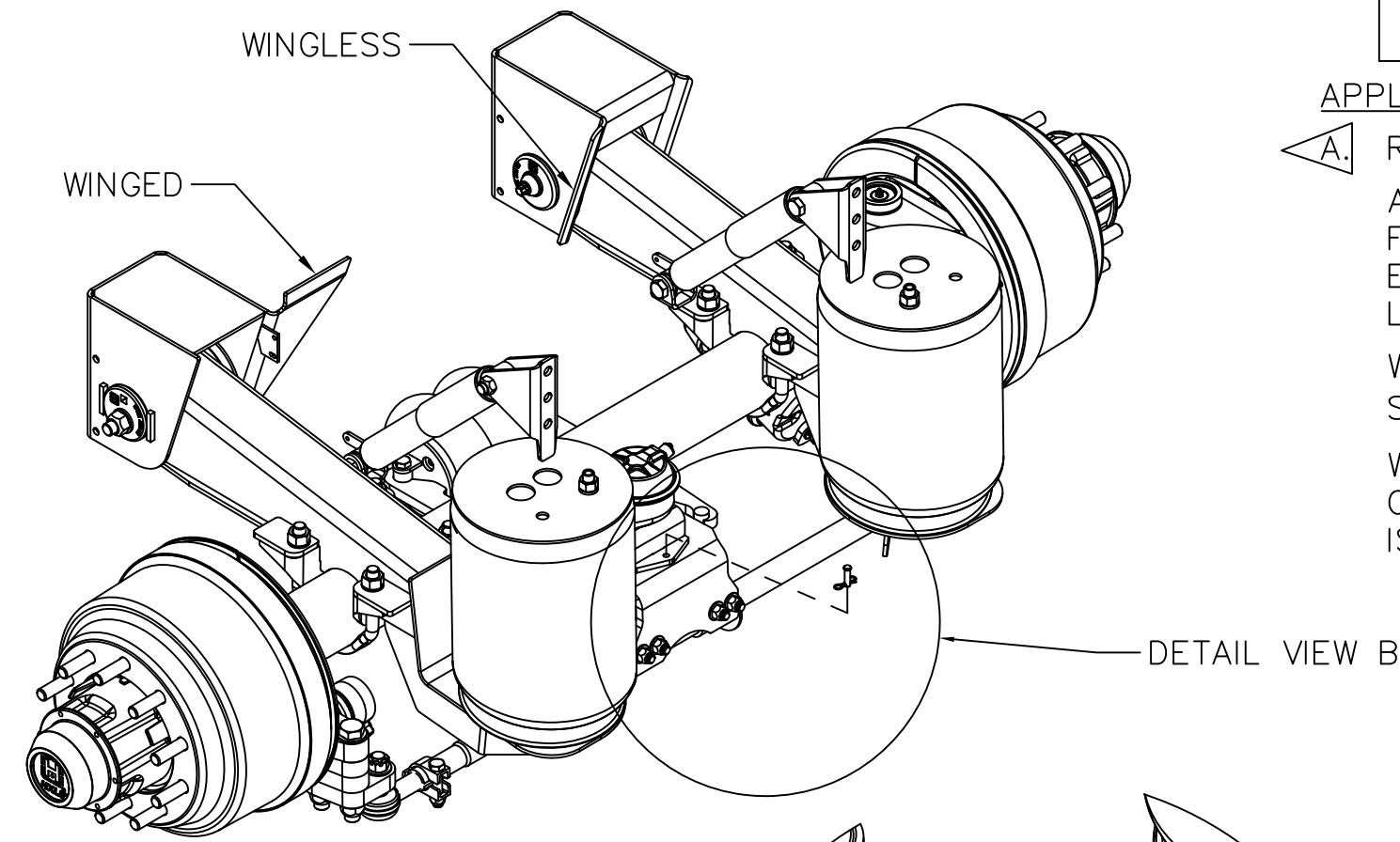
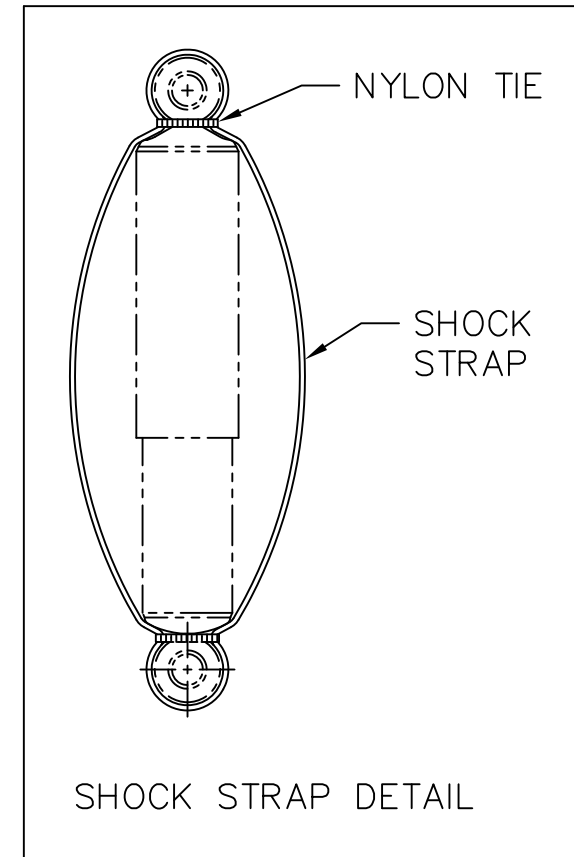
#### NOTES:

- SEE L577 INSTALLATION INSTRUCTIONS FOR INFORMATION ON ASSEMBLY AND WELDING PROCEDURE.
- SEE L579 FOR ALIGNMENT PROCEDURE.
- SEE PAGE 7 FOR C-CHANNEL AND FRAME BRACKET BRACE MOUNTING REQUIREMENTS.
- SEE PAGE 5 FOR TRAILER FRAME CROSSMEMBER LOCATIONS AND MOUNTING DETAILS. ACTUAL SIZE AND SHAPE MAY VARY WITH TRAILER DESIGN. IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE STRUCTURAL ADEQUACY OF THE TRAILER FRAME.
- SEE PAGE 6 & 7 FOR BOLT-ON SUSPENSION MOUNTING REQUIREMENTS.
- SUSPENSION & AXLE CAPACITY: 25,000 LBS. AT GROUND. CAPACITY RATINGS OF BRAKES, TIRES, WHEELS, ETC. MAY LIMIT THE OVERALL CAPACITY OF THE SYSTEM.
- SEE PAGE 3 FOR TABULATED DIMENSIONS.

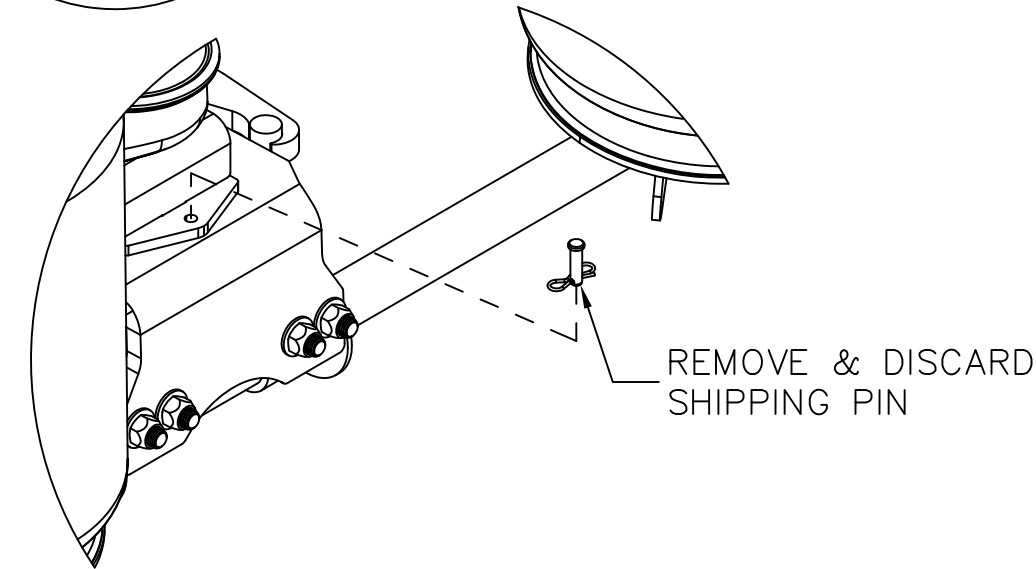
### CAUTION

#### CLEARANCE SPECIFICATIONS:

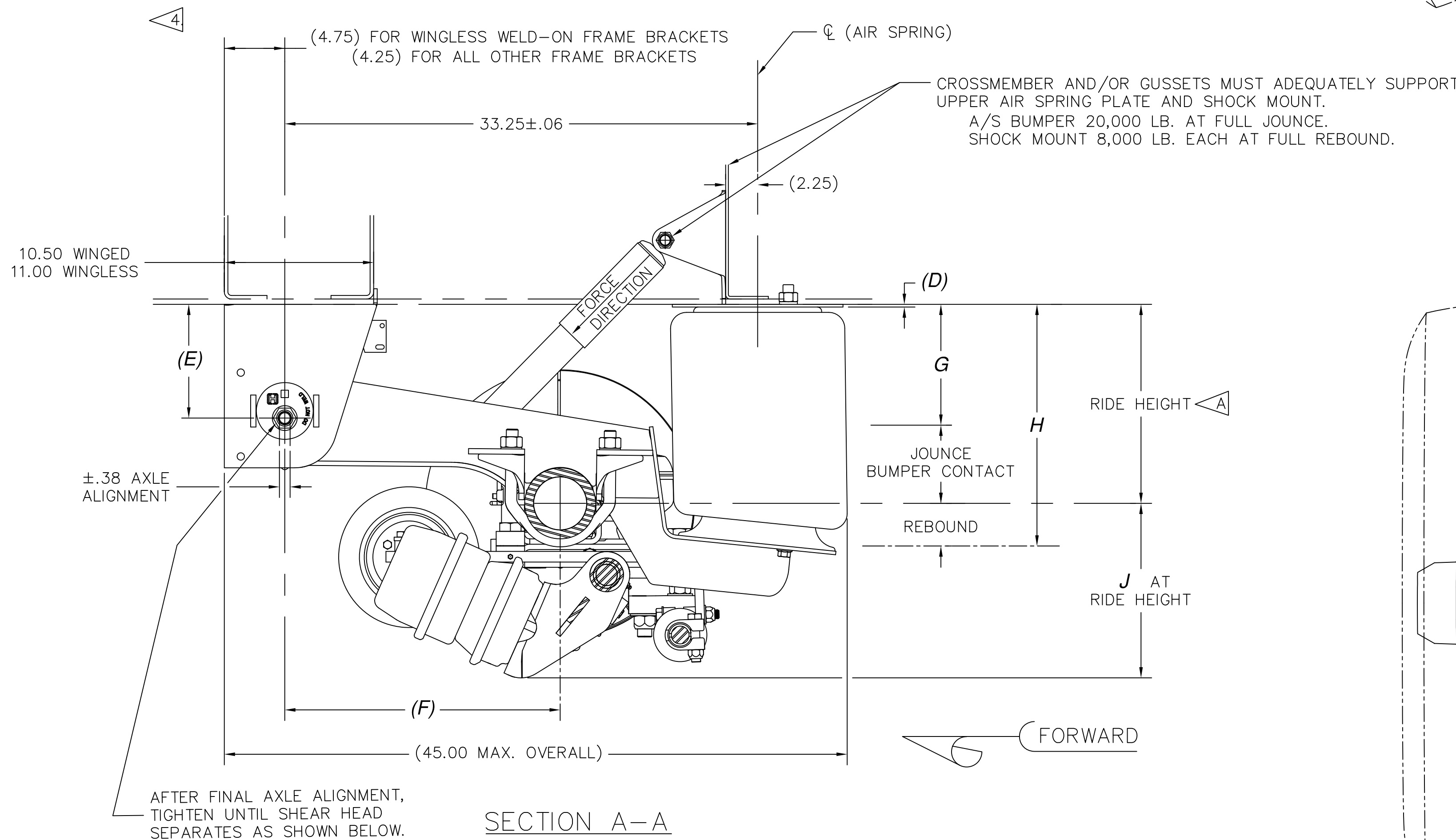
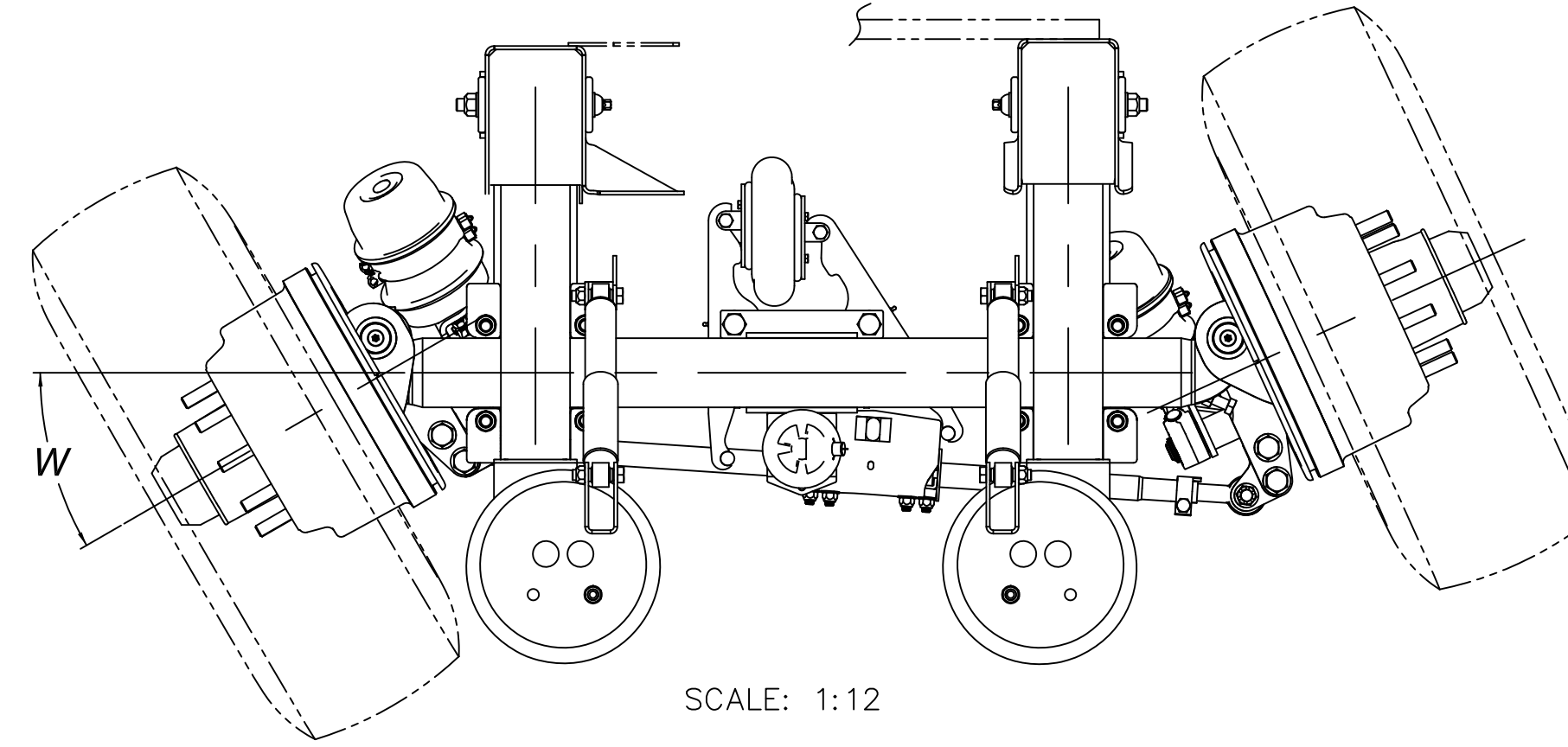
- 1.0 INCH MINIMUM REQUIRED BETWEEN TOP OF TIRE AND BOTTOM OF TRAILER STRUCTURE WHEN AXLE IS AT FULL JOUNCE.
- 2.0 INCHES MINIMUM REQUIRED BETWEEN INSIDE OF TIRE AND TRAILER STRUCTURE FOR LATERAL MOVEMENT.
- 1.0 INCH MINIMUM CLEARANCE MUST BE MAINTAINED AROUND AIR SPRING WHEN IT IS AT MAXIMUM DIAMETER.



SCALE: 1:12

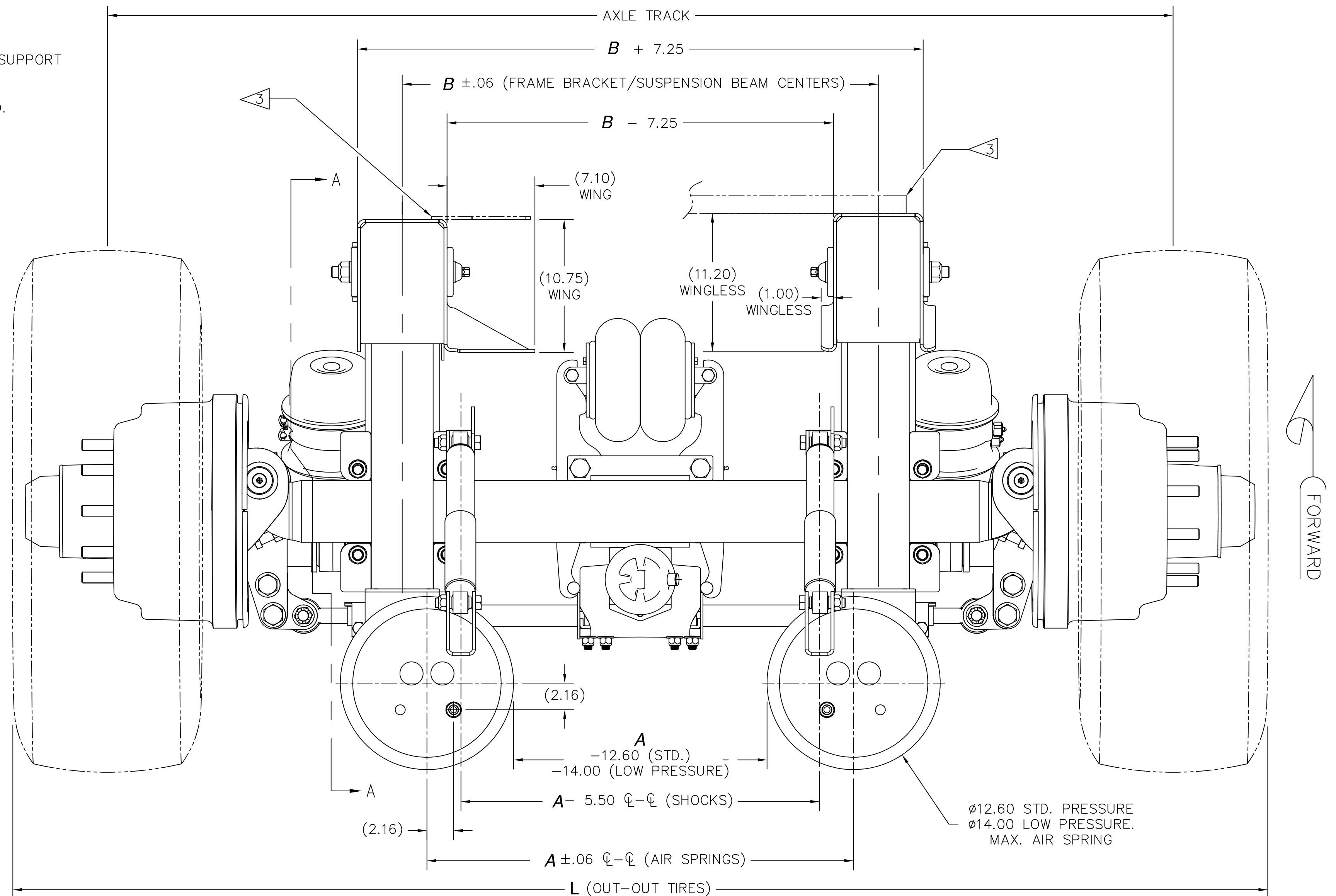


DETAIL VIEW B  
SCALE: 1:6



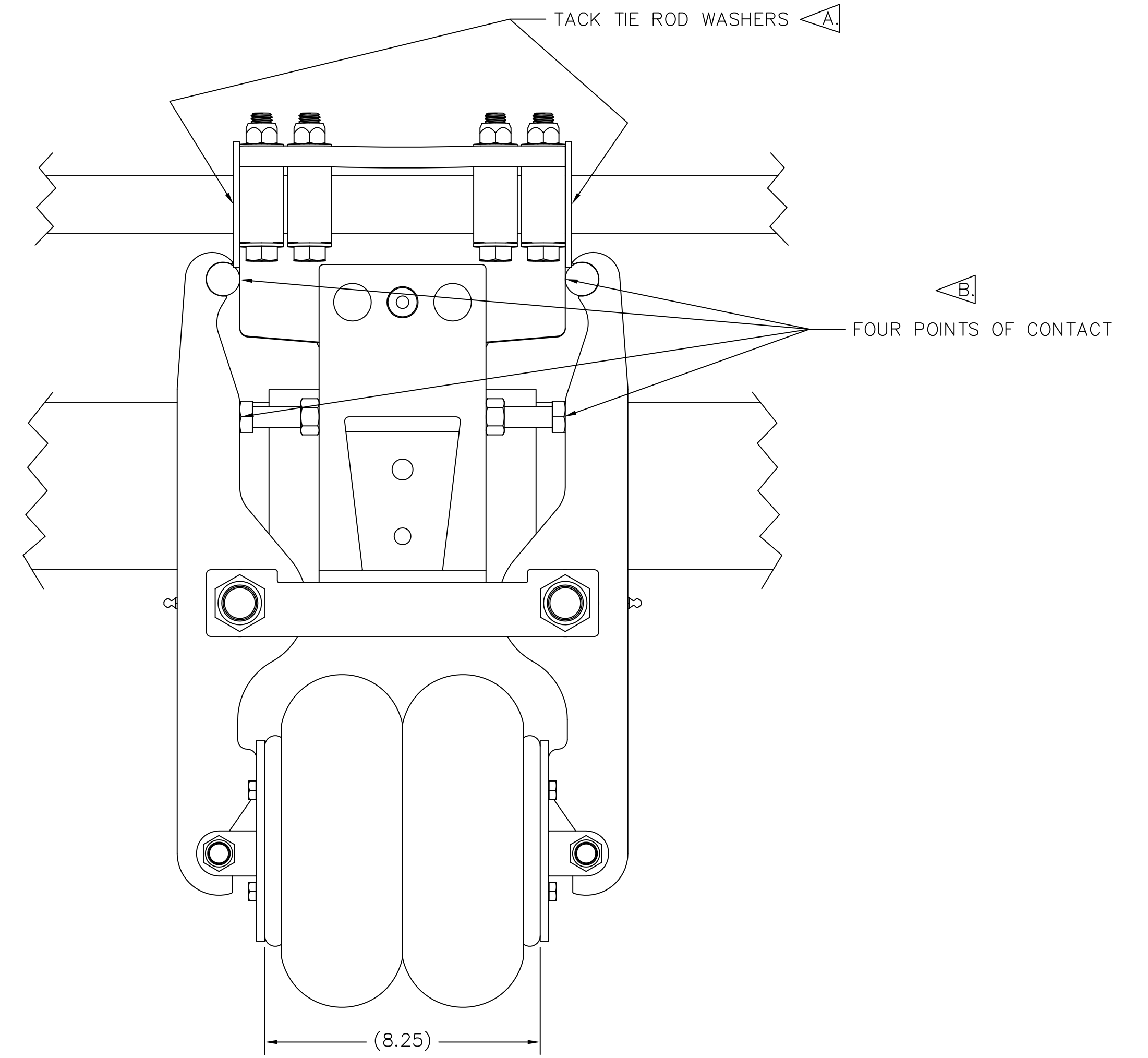
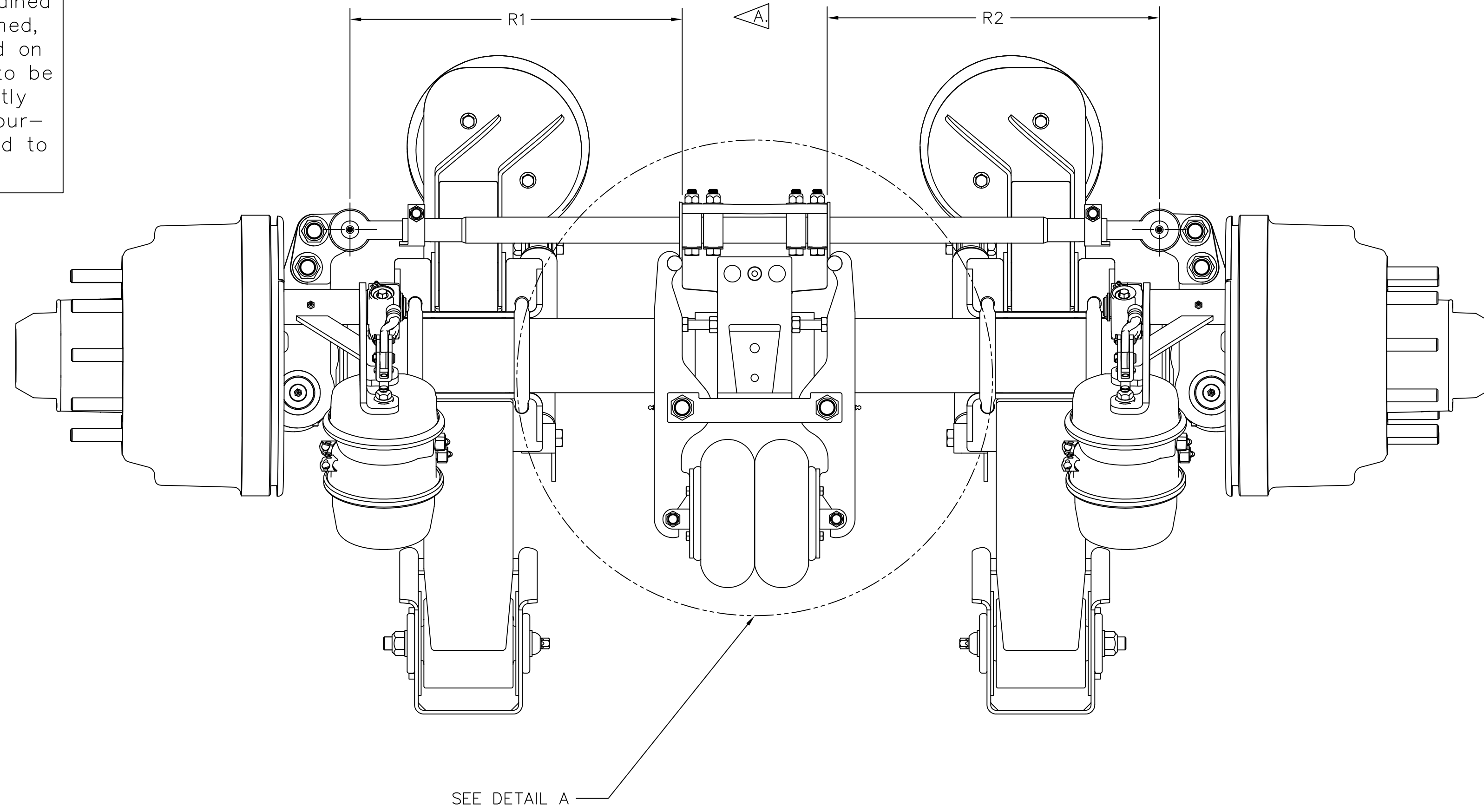
TORQUE SPECIFICATIONS		
DESCRIPTION	SIZE	TORQUE (FT LB)
SHOCK BOLTS	3/4-10	210-235
AIR SPRING NUTS, UPPER	3/4-16	80-100
AIR SPRING BOLTS, LOWER	1/2-13	40-50
WHEEL CUT STOP BOLT, JAM NUT	3/4-10	125-150*
TIE ROD END CLAMPS	5/8-11	50-60*
LS ADJUSTER JAM NUT	5/8-11	125-150*
LS CENTER PLATE CLAMP BOLTS	5/8-11	90-100*

\* INDICATES INSTALLED BY HENDRICKSON. TORQUE IS FOR REFERENCE IF RE-TORQUE IS REQUIRED DURING ALIGNMENT PROCEDURES.



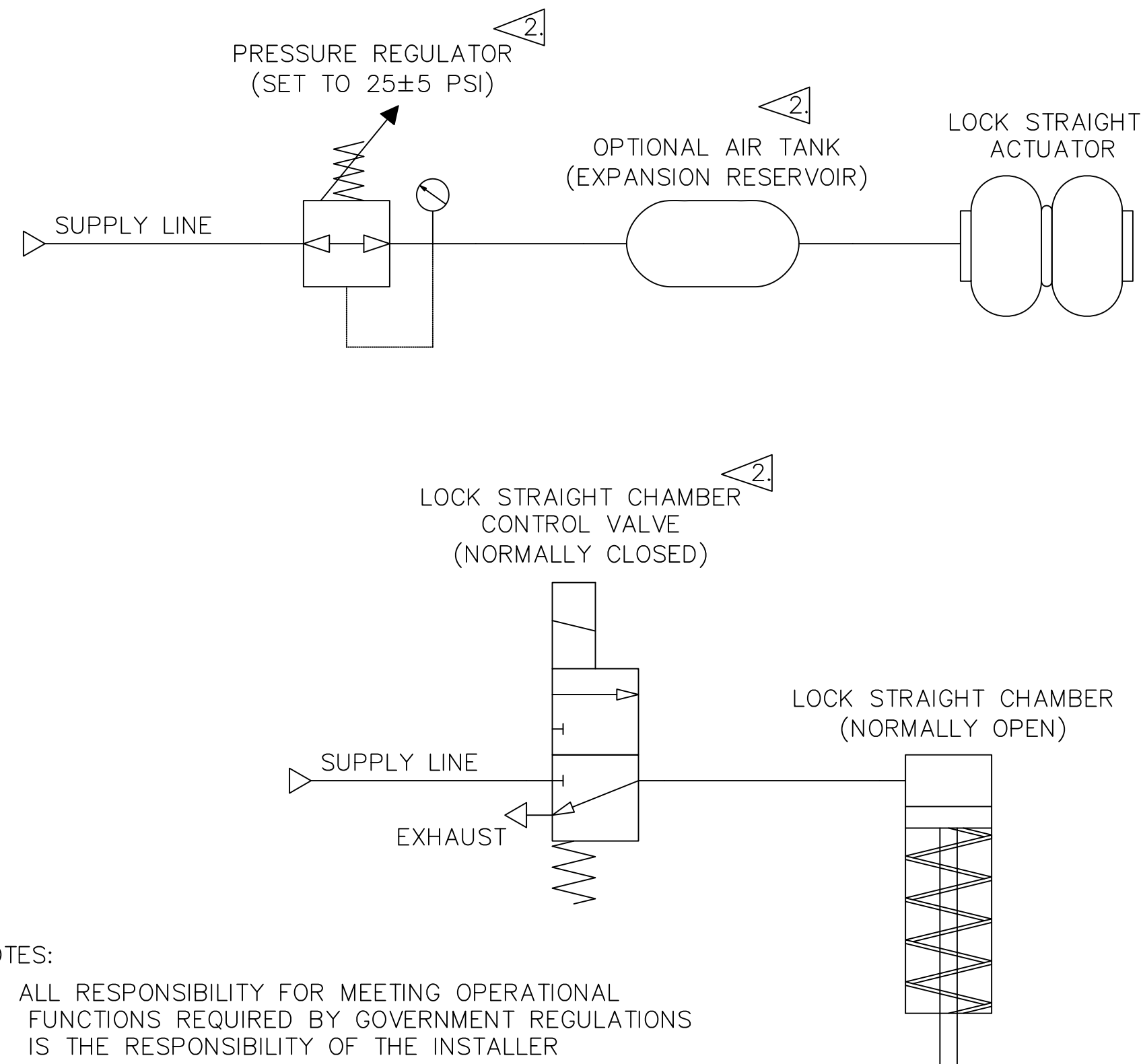
GROUND CLEARANCE	
TO CALCULATE GROUND CLEARANCE, SUBTRACT J FROM LOADED TIRE RADIUS.	
RIDE HEIGHT	J
13.0-19.0	12.22

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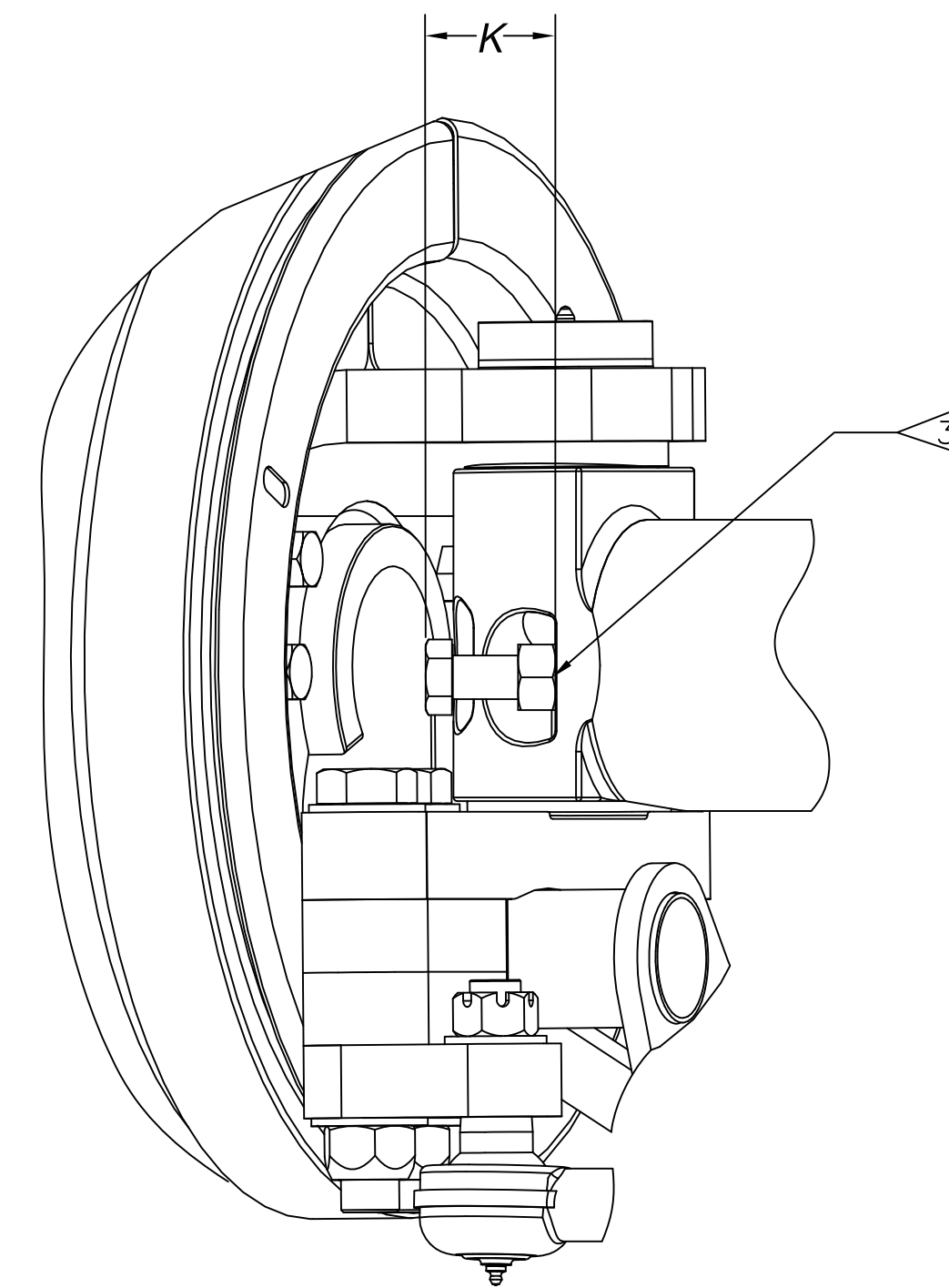


DETAIL A  
SCALE 1:3

### RECOMMENDED PLUMBING FOR LOCK STRAIGHT MECHANISM



- NOTES:
1. ALL RESPONSIBILITY FOR MEETING OPERATIONAL FUNCTIONS REQUIRED BY GOVERNMENT REGULATIONS IS THE RESPONSIBILITY OF THE INSTALLER
- ⚠ COMPONENTS NOT PROVIDED BY HENDRICKSON.



WHEEL CUT STOP BOLT SETTING DETAIL  
SCALE: 1:3

WHEEL CUT STOP BOLT SETTING	
WHEEL CUT	DIM K
30.00" $\begin{smallmatrix} +.50 \\ -.00 \end{smallmatrix}$	1.434 $\begin{smallmatrix} +.000 \\ -.040 \end{smallmatrix}$
28.00" $\begin{smallmatrix} +.50 \\ -.00 \end{smallmatrix}$	1.599 $\begin{smallmatrix} +.000 \\ -.045 \end{smallmatrix}$
25.00" $\begin{smallmatrix} +.50 \\ -.00 \end{smallmatrix}$	1.859 $\begin{smallmatrix} +.000 \\ -.040 \end{smallmatrix}$
20.00" $\begin{smallmatrix} +.50 \\ -.00 \end{smallmatrix}$	2.229 $\begin{smallmatrix} +.000 \\ -.045 \end{smallmatrix}$

- NOTES:
1. SEE L579 FOR ALIGNMENT PROCEDURE.
  2. SEE PAGE 1 FOR TORQUE SPECIFICATIONS OF FASTENERS.
  - ⚠ WHEEL-CUT IS PRESET BY [H] PER CUSTOMERS REQUEST. IT IS THE INSTALLERS RESPONSIBILITY TO MAINTAIN NECESSARY CLEARANCES WITH SUSPENSION COMPONENTS AND TRAILER FRAME. THE RESPONSIBILITY INCLUDES IF WHEEL-CUT STOP BOLT SETTING IS CHANGED FROM PRESET VALUE.

### IMPORTANT

- SELF STEER AXLE VERIFICATION CHECKLIST:
- ⚠ VERIFY TIE ROD CENTER BRACKET LOCATION  $R1=R2$  WITHIN  $\pm.09$ . IF ADJUSTMENT IS NOT REQUIRED THEN TACK TIE ROD WASHERS IN PLACE. IF ADJUSTMENT IS NEEDED LOOSEN CENTER PLATE CLAMP BOLTS SO ADJUSTMENT CAN BE MADE. WHEN  $R1=R2$  WITHIN  $\pm.09$  TORQUE CLAMP BOLTS PER CHART BB ON PG. 1 AND TACK TIE ROD WASHERS IN PLACE.
  - ⚠ VERIFY 4 POINTS OF CONTACT ON LOCK STRAIGHT MECHANISM. TO VERIFY AND ADJUST REFER TO L579.
  - C. TOE IS PRESET BY [H]. DURING FINAL ALIGNMENT TOE SHOULD BE VERIFIED. REFER TO L579 TO TOE SETTINGS AND ADJUSTMENTS.

**HENDRICKSON**  
TRAILER COMMERCIAL VEHICLE SYSTEMS  
2070 INDUSTRIAL PLAZA SE., CANTON, OH 44707-2800 U.S.A.

UNLESS OTHERWISE NOTED, TOLERANCES ARE:	5	33407	K/E	01/20/20	DRAWN BY	J. HOFER	7-9-15
DIMENSIONS ARE:	4	31111	SLB	05-15-18	CHK'D BY	C. RADCLIFF	
.X: ±	3	26298	SLB	02-07-17	APP'D BY	K. ERDMANN	
.XX: ±	2	25803	SLB	9-15-16			
ANGULAR: ±							
DIMENSIONS ADHERE TO ANS I Y14.5M-1982							

CONNEX® ST  
INSTALLATION DRAWING

SCALE	1:6	SIZE	D	PAGE	2 OF 8
DRAWING NO.	D-36237				

Ⓟ  
P  
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⑤ CONNEX ST AXLE ASSEMBLY (HP)															
WHEEL CONFIGURATION	SINGLE											DUAL			
WHEEL MATERIAL	ALUMINUM											STEEL			
WHEEL OFFSET	.56 (OUTSET)											0.00 (OUTSET)*		0.00 (EFFECTIVE)	
WHEEL SIZE	12.25X22.5											14.00X22.5		8.25X22.5	8.25X24.5
TIRE SIZE	385/65R22.5			425/65R22.5				455/55R22.5**				11R22.5	11R24.5		
AXLE TRACK	80.0	85.0	86.0	77.5	83.5	84.0	85.0	77.5	83.5	84.0	85.0	77.5			
L (TIRE OUT-TO-OUT)	95.6	100.5	101.5	94.5	100.6	101.1	102.1	94.6	100.6	101.1	102.1	102.2			
B (FRAME BRACKET/SUSP. BEAM CENTERS)	32.5	37.5	38.5	39.5	30.0	36.0	36.5	37.5	30.0	36.0	36.5	37.5	28.5	30.0	
A (AIR SPRING CENTERS)	28.5	33.5	34.5	35.5	26.0	32.0	32.5	33.5	26.0	32.0	32.5	33.5	24.5	26.0	
W <sup>o</sup> (MAX WHEELCUT)	30.0	30.0	30.0	28.0	30.0	30.0	30.0	30.0	28.0	28.0	28.0	28.0	20.0		
AXLE WEIGHT (LB)	725	740	743		716	735	736	740	716	735	736	740	716		

\* FOR 1.00 WHEEL OUTSET MOUNTING ADD 2.0 TO DIM. L

\*\* FOR 445/50R22.5 SUBTRACT .7 FROM DIM. L

NOTES:

- SUSPENSION WEIGHT INCLUDES SUSPENSION COMPONENTS ONLY. WEIGHT REFLECTS: CXSL STANDARD BEAMS, STANDARD A/S SHOCK MOUNT/SPACER, WINGED FRAME BRACKETS, STANDARD SHOCKS W/OUT SHOCK STRAP KIT, AND STANDARD HARDWARE.
- ⑤ FOR AXLE WEIGHTS SEE TABLE "CONNEX ST AXLE ASSEMBLY (HP)" ON THIS DRAWING. AXLE WEIGHTS INCLUDES BRAKE COMPONENTS LESS BRAKE CHAMBERS AND SLACK ADJUSTERS.
- TOTAL WEIGHT = SUSP. WEIGHT + AXLE WEIGHT + FRAME BRACKET BRACING WEIGHT\*\*  
 \*\*IF WINGLESS FRAME BRACKET SEE ADDITIONAL WEIGHT FOR WINGLESS FRAME BRACKET TABLE  
 \*\*IF UBL OPTION IS INCLUDED ADD 70.98 LB TO TOTAL WEIGHT
- ④ JOUNCE AND REBOUND DIMENSIONS CHANGE AS THE RIDE HEIGHT CHANGES FROM THE NOMINAL POSITION.
- ⑤ DIMENSIONS "G" & "H" WILL REMAIN CONSTANT REGARDLESS OF RIDE HEIGHT VARIATION FROM NOMINAL POSITION.  
 RIDE HEIGHT - JOUNCE = "G"  
 RIDE HEIGHT + REBOUND = "H"

STANDARD TRAVEL DIMENSIONS FROM PAGE 1												
	RIDE HEIGHT	④	④	④	D	E	F	G	H	RIDE HEIGHT TOLERANCE LIMITS		SUSP. WEIGHT (LB)
		JOUNCE	REBOUND	BUMPER CONTACT						MIN.	MAX.	
WELD-ON REAR UPPER SHOCK MOUNT	13.0	5.0	4.2	4.4	.19	8.0	19.36	8.0	17.2	12.5	13.5	338
	14.0	6.0	3.2	5.4	.19	8.0	19.36	8.0	17.2	13.5	14.5	338
	15.0	6.5	3.1	5.9	1.00	8.0	19.02	8.5	18.1	14.5	15.5	341
	16.0	6.1	3.0	5.5	2.00	10.0	19.36	9.9	19.0	15.5	16.5	352
	17.0	6.5	3.1	5.9	3.00	10.0	19.02	10.5	20.1	16.5	17.5	356
	18.0	6.1	3.0	5.5	4.00	12.0	19.36	11.9	21.0	17.5	18.5	367
19.0	6.5	3.1	5.9	5.00	12.0	19.02	12.5	22.1	18.5	19.5	370	
BOLT-ON REAR UPPER SHOCK MOUNT	13.0	4.9	4.2	4.4	.25	8.00	19.36	8.1	17.2	12.5	13.5	365
	14.0	5.9	3.2	5.4	.25	8.00	19.36	8.1	17.2	13.5	14.5	365
	15.0	6.4	3.3	5.8	1.19	8.00	19.02	8.6	18.3	14.5	15.5	367
	16.0	6.0	3.2	5.4	2.19	10.00	19.36	10.0	19.2	15.5	16.5	379
	17.0	6.4	3.3	5.8	3.19	10.00	19.02	10.6	20.3	16.5	17.5	382
	18.0	6.0	3.2	5.4	4.19	12.00	19.36	12.0	21.2	17.5	18.5	404
19.0	6.4	3.3	5.8	5.19	12.00	19.02	12.6	22.3	18.5	19.5	407	

**CAUTION**

APPLICATION RECOMMENDATIONS

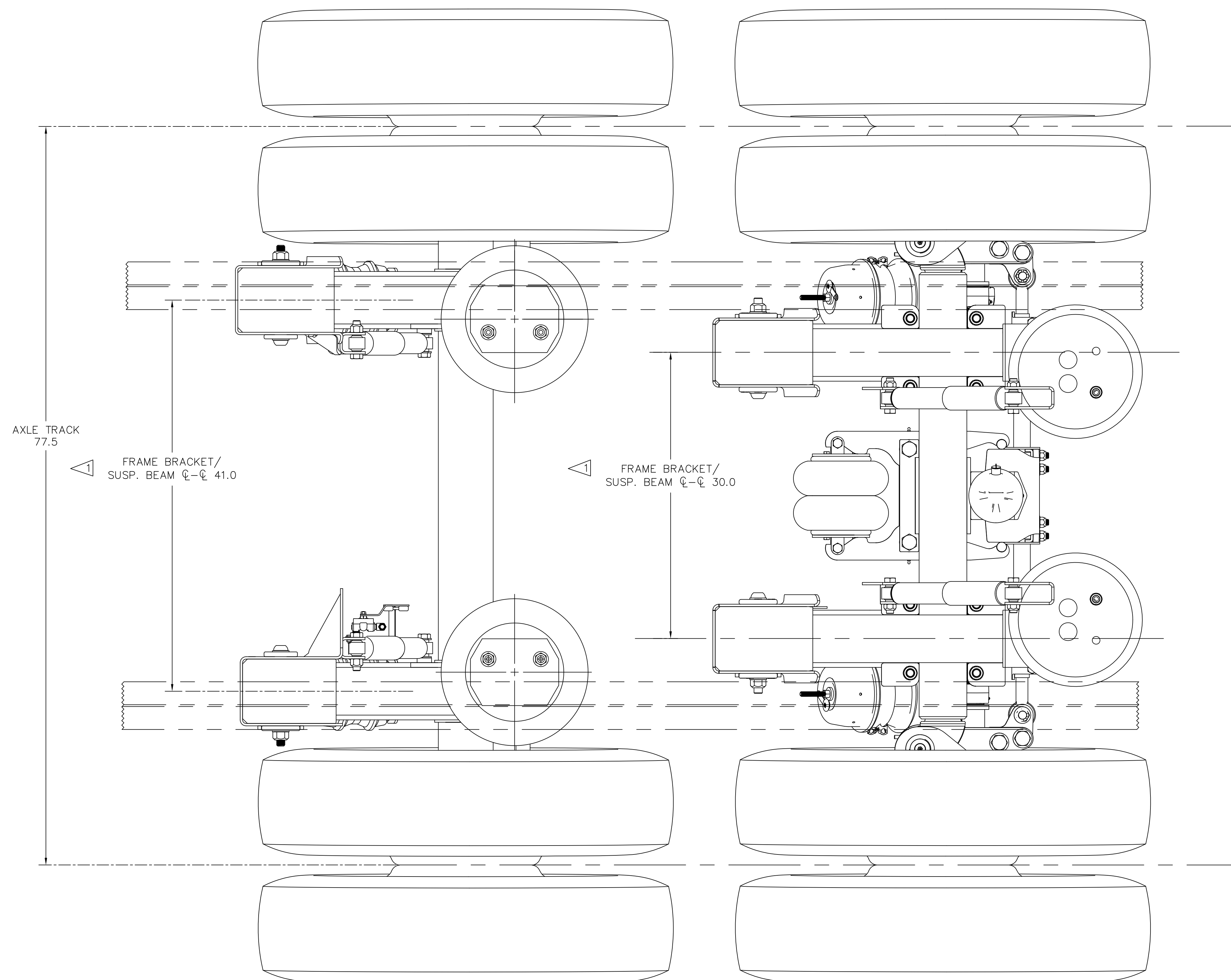
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 WHEN AIR IS DUMPED ON LEVEL GROUND ALL PRIMARY SUSPENSIONS MUST REACH BUMPER CONTACT HEIGHT BEFORE THE CONNEX ST SUSPENSION REACHES IT'S BUMPER CONTACT HEIGHT. ⑤  
 WHEEL-CUT IS PRESET BY [H] PER CUSTOMERS' REQUEST. IT IS THE INSTALLERS RESPONSIBILITY TO MAINTAIN NECESSARY CLEARANCES WITH SUSPENSION COMPONENTS AND TRAILER FRAME. THIS RESPONSIBILITY INCLUDES IF WHEEL-CUT STOP BOLT SETTING IS CHANGED FROM PRESET VALUE.

WEIGHT FOR FRAME BRACKET BRACING											
C-CHANNEL	STANDARD C-CHANNEL	BOLT-ON C-CHANNEL W/STRUTS									FR BKT GUSSET (WINGED WELD-ON ONLY)
B (FRAME BRACKET/SUSP. BEAM CENTERS)	28.5-32.5	36.0-39.5	28.5	30.0	32.5	36.0	36.5	37.5	38.5	39.5	ALL
FR BKT BRACING WEIGHT (LB)	11.80	14.00	12.62	13.07	13.81	15.30	15.45	15.75	16.04	16.34	6.32

ADDITIONAL WEIGHT FOR WINGLESS FR BKT			
RIDE HEIGHT	13.0-15.0	16.0-17.0	18.0-19.0
WEIGHT (LB)	1.67	9.33	8.46

⑤ PRODUCTION

	UNLESS OTHERWISE NOTED: TOLERANCES ARE: DIMENSIONS ARE: INCHES		5 33407 K/E 01/20/20	DRWN BY J. HOFER	7-9-15	CONNEX® ST ⑤ INSTALLATION DRAWING	SCALE 1:4	SIZE D	PAGE 3 OF 8
	TRAILER COMMERCIAL VEHICLE SYSTEMS 2070 INDUSTRIAL PLAZA S.E., CANTON, OH 44707-2800 U.S.A.	3 26298 S/LB 02-07-17 2 25803 S/LB 9-15-16	REV. ECN NO. BY DATE	DWG BY C. RADCLIFF APP'D BY K. ERDMANN	THIS DRAWING IS THE CONFIDENTIAL PROPERTY OF HENDRICKSON		D-36237		



EXAMPLE:  
77.5 AXLE TRACK INTRAAX® PAIRED WITH A 77.5 AXLE TRACK CONNEX ST

**IMPORTANT**

- NOTES:
- 1. SUSPENSION BEAM CENTER REQUIRED FOR CONNEX ST ARE NOT THE SAME AS IT IS FOR OTHER INTRAAX® OR HT® SERIES PRODUCTS AT THE SAME AXLE TRACK.
  - 2. SEE PAGE 2 FOR AVAILABLE AXLE TRACKS AND SUSPENSION BEAM CENTERS FOR CONNEX ST.

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	UNLESS OTHERWISE NOTED:		DRAWN BY		DATE	
	TOLERANCES ARE:	DIMENSIONS ARE:	S. BIRKEY	05-15-18		
X: ±	INCHES	5 33407	K.E.	01/20/20	DWG'D BY	
XX: ±		4 31111	SLB	05-15-18	J. HOFER	
XXX: ±					APPRO'D BY	
ANGULAR: ±					K. ERDMANN	
DIMENSIONS ADHERE TO ANSI Y14.5M-1982		REV.	ECN NO.	BY	DATE	

CONNEX® ST  
INSTALLATION DRAWING

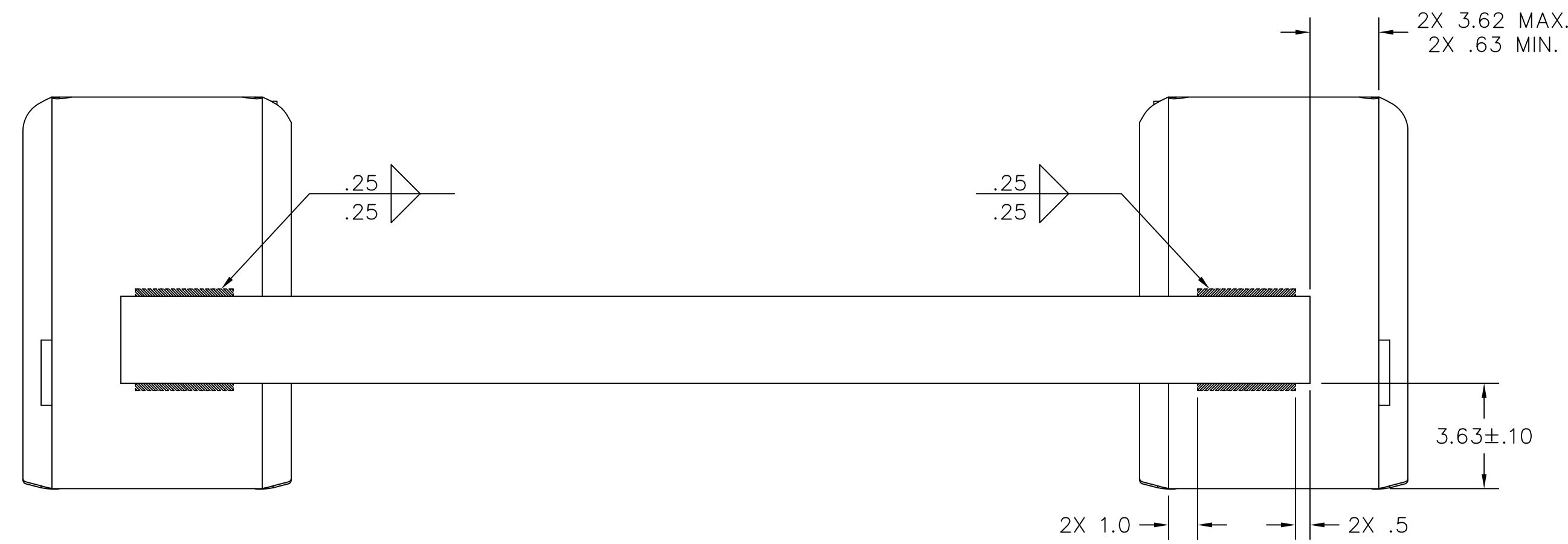
SCALE	1:6	SIZE	D	PAGE	4 OF 8
DRAWING NO.	D-36237				

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PRODUCTION

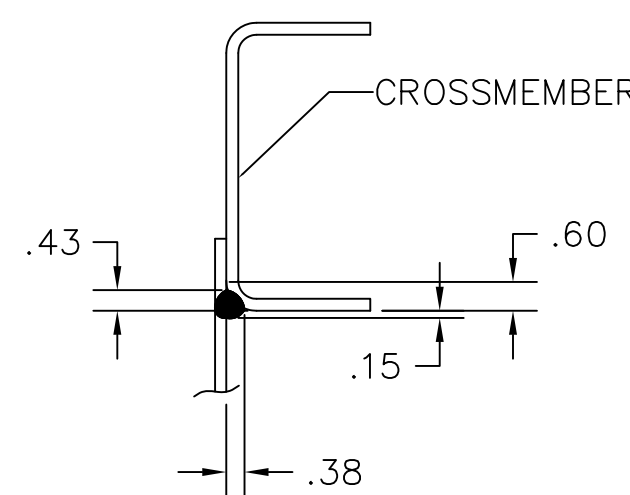
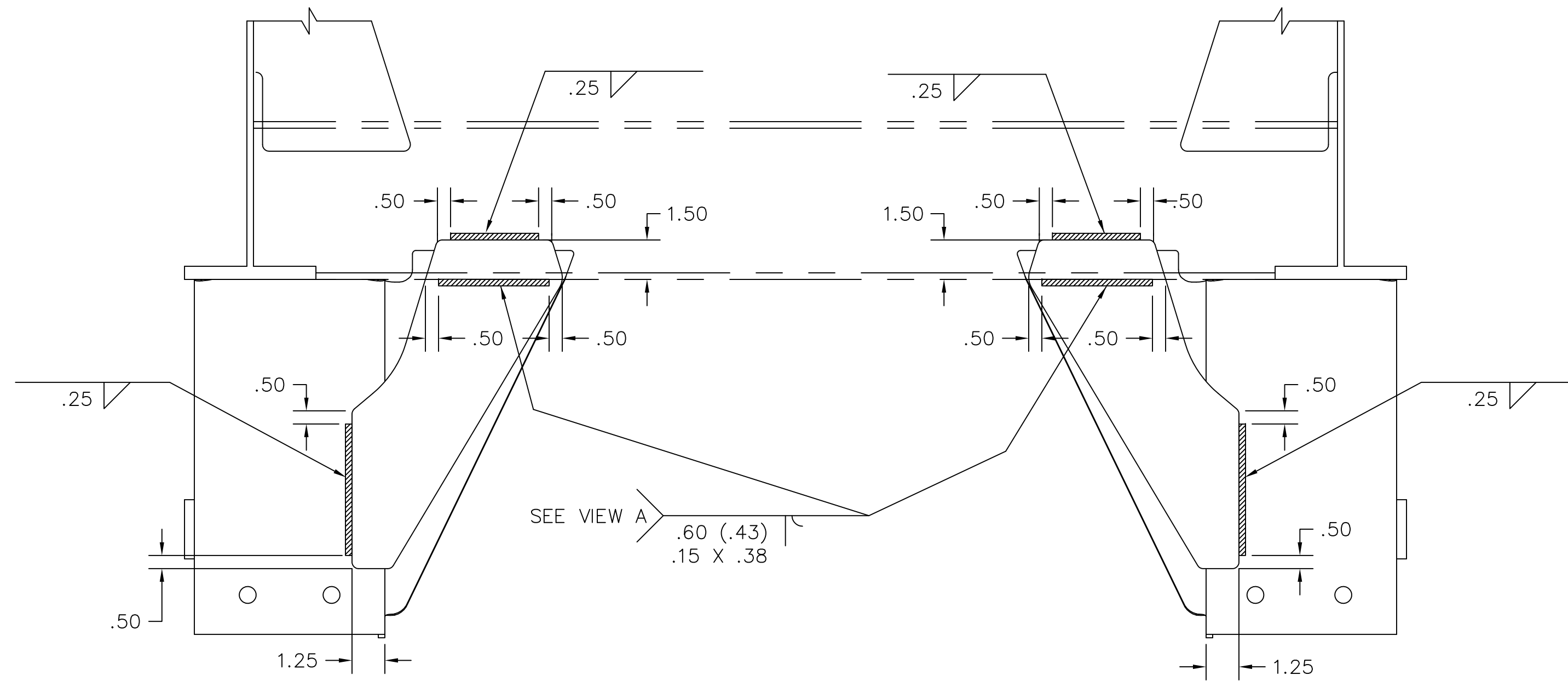




**C-CHANNEL WELD DETAIL  
FRAME ATTACHMENT: WINGLESS WELD-ON**

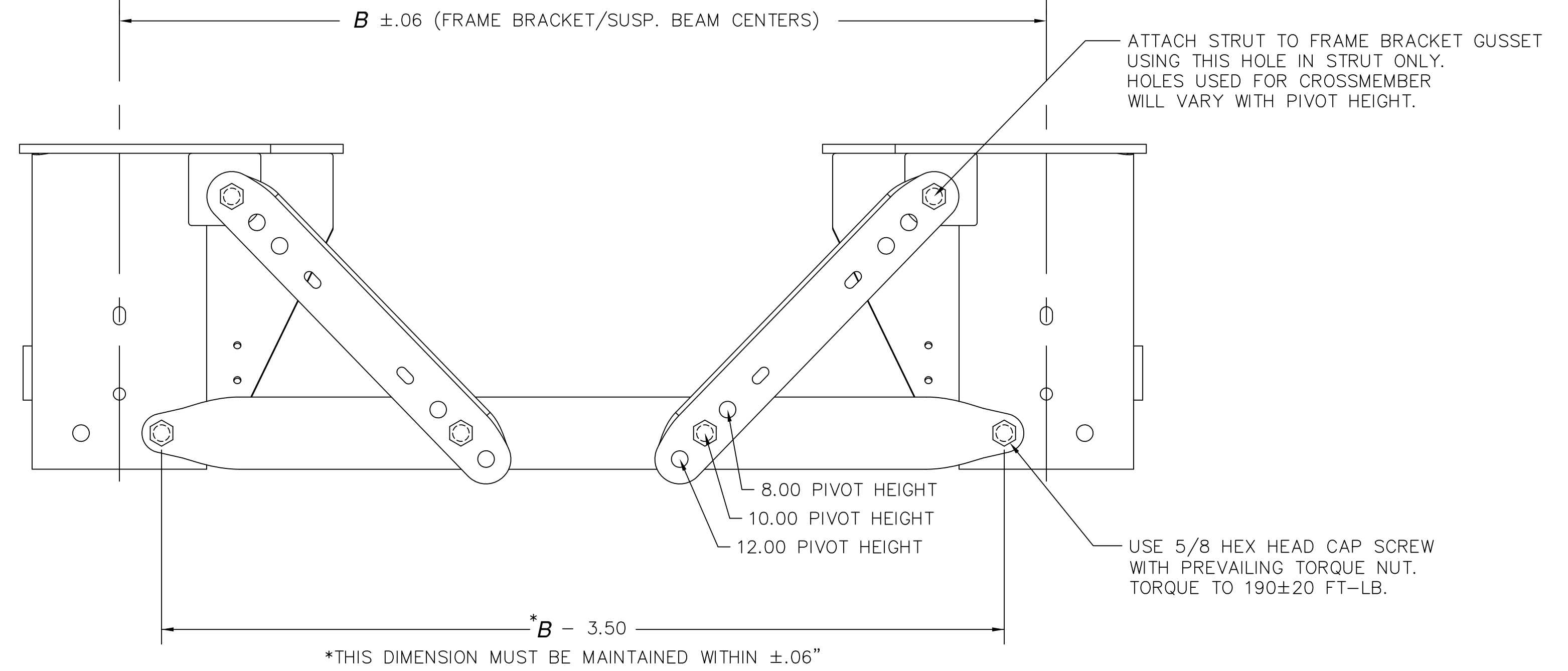
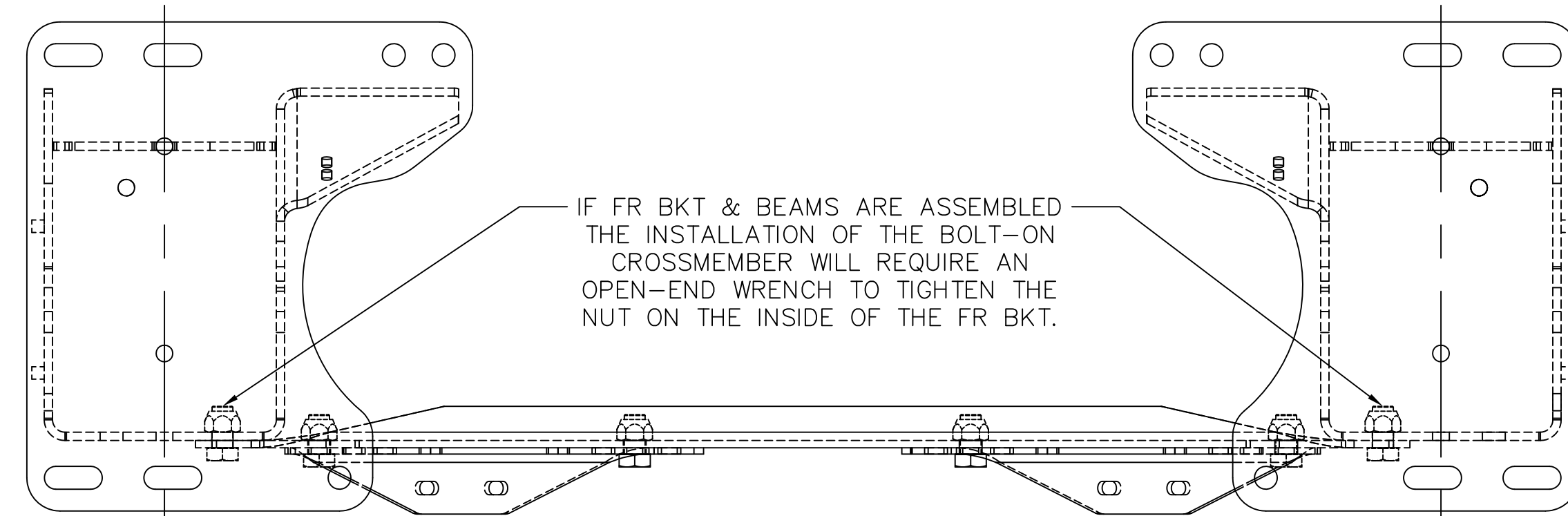


**FRAME BRACKET GUSSET WELD DETAIL  
FRAME ATTACHMENT: WINGED WELD-ON**



**VIEW A**  
SCALE: .25=1.00

**BOLT-ON C-CHANNEL WITH STRUTS  
INSTALLATION DETAILS  
FRAME ATTACHMENT: BOLT-ON**



**INSTALLATION SEQUENCE:**

1. LOCATE FRAME BRACKETS ONTO TRAILER FRAME, AND LOOSELY INSTALL MOUNTING BOLTS.
2. INSTALL CROSSMEMBER, USING 5/8" MOUNTING HOLES ON FRONT OF FRAME BRACKETS.
3. INSTALL STRUTS, USING 5/8" MOUNTING HOLES IN FRAME BRACKET GUSSET AND CROSSMEMBER.
4. TIGHTEN CROSSMEMBER MOUNTING BOLTS AND STRUT MOUNTING BOLTS, IF PRESENT.
5. TIGHTEN FRAME BRACKET MOUNTING BOLTS.

FRAME ATTACHMENT	FRAME BRACKET BRACING	
	WELD-ON	BOLT-ON
FRAME BRACKET STYLE	WINGED	WINGLESS
RIDE HEIGHT	WINGED	WINGED
13.0	FRAME BRACKET GUSSET REQUIRED	C-CHANNEL REQUIRED
14.0		
15.0		
16.0		
17.0		
18.0	C-CHANNEL REQUIRED	
19.0		

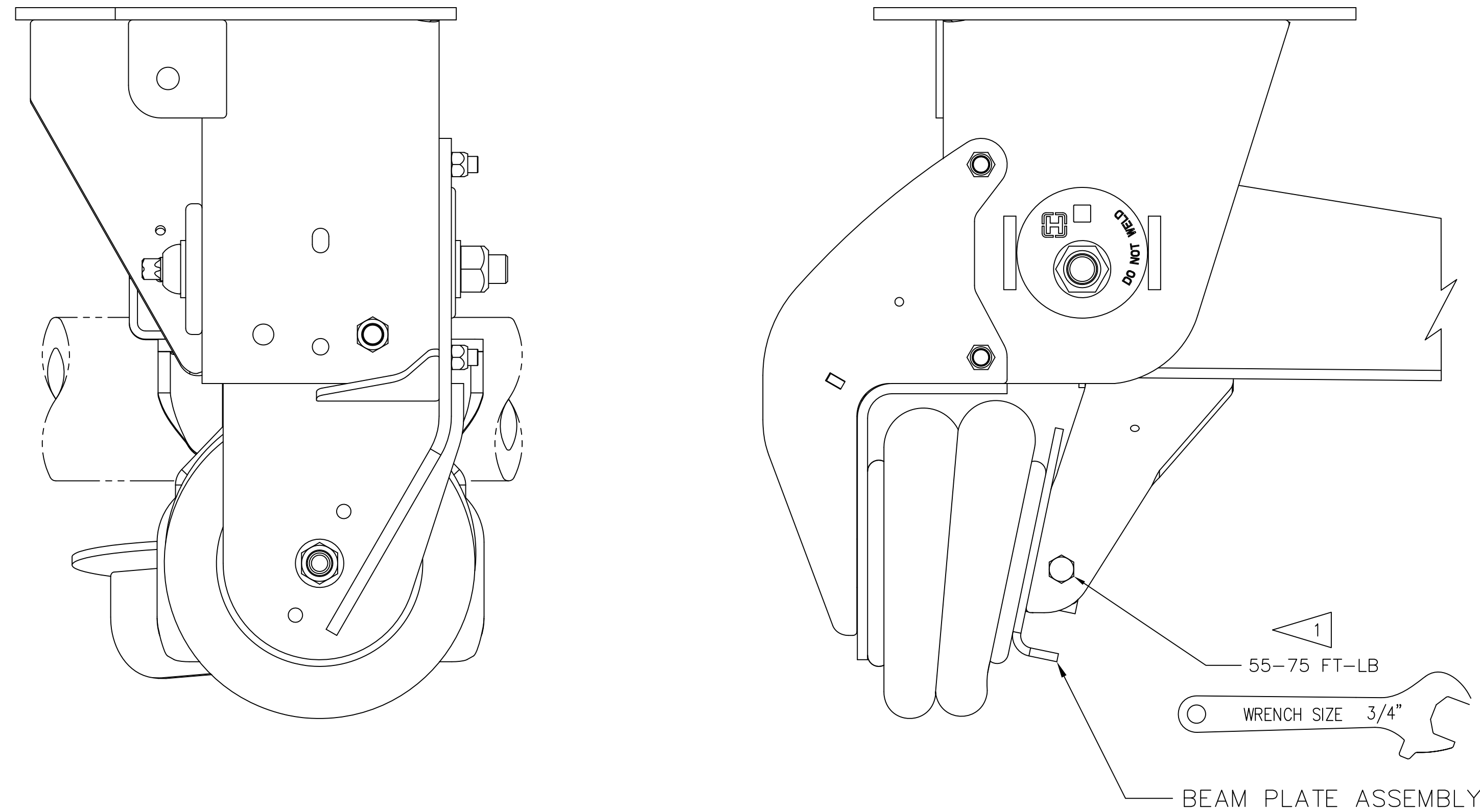
IT IS THE RESPONSIBILITY OF THE SUSPENSION INSTALLER TO PROVIDE AN EQUIVALENT FRAME BRACKET SUPPORT IF THE FRAME BRACKET BRACING IS NOT PURCHASED FROM HENDRICKSON.

**NOTES:**

1. Hatched PATTERN DENOTES WELD PLACEMENT
2. SEE L577 HT INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION ON FRAME BRACKET AND CROSSMEMBER WELDING PROCEDURES.
3. SEE PAGE 3 FOR TABULATED DIMENSIONS.

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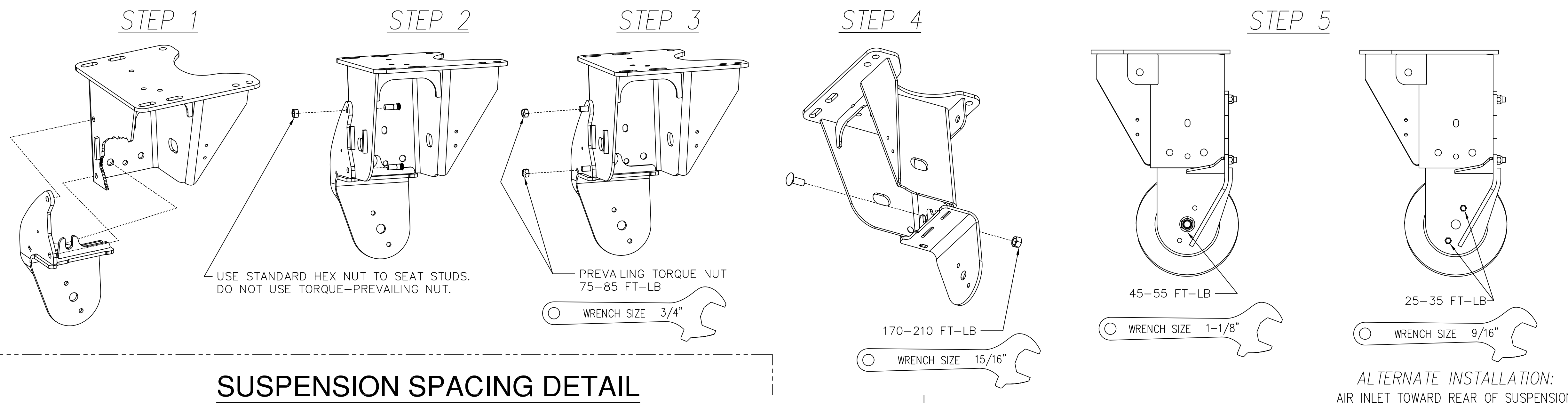


## BEAM BRACKET ASSEMBLY PROCEDURE

- 1 ASSEMBLING AIR SPRING MOUNTING PLATE  
INSTALL BEAM PLATE ASSEMBLY USING (4) 1/2-13 X 1.25 HEX CAP SCREW AND (4) 1/2-13 NUTS AND TIGHTEN TO SPECIFIED TORQUE.

## FRONT BRACKET ASSEMBLY PROCEDURE

SCALE: 1:6

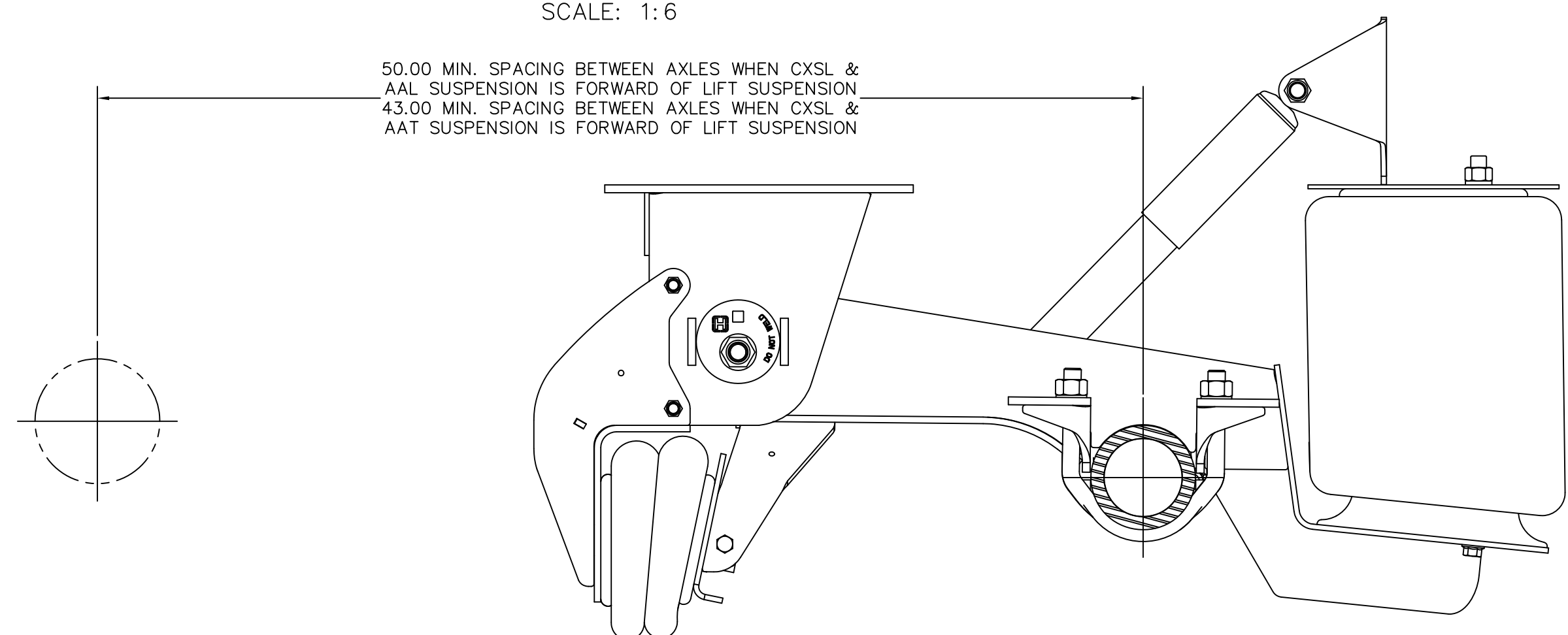


\*\* FRONT BRACKET MUST BE IN PLACE BEFORE SEATING THE RIBBED-NECK BOLTS. BRACKET CANNOT BE INSTALLED IF BOLTS ARE INSTALLED PRIOR TO POSITIONING OF THE BRACKET.

- FITTING BRACKET INTO PLACE.**  
SLIDE FRONT BRACKET INTO PLACE, MAKING SURE THAT ALL MOUNTING HOLES IN UBL BRACKET ALIGN WITH HOLES IN FRAME BRACKET.
- INSERTING SIDE MOUNTING BOLTS.**  
HOLDING THE FRONT BRACKET IN PLACE, PUSH RIBBED NECK FASTENERS INTO MOUNTING HOLES FROM INSIDE OF FRAME BRACKET. INSERT AND TIGHTEN THE PROVIDED 1/2-13 STANDARD (NON-LOCKING) HEX NUT ON EACH RIBBED-NECK FASTENER. AS THE NUT IS TIGHTENED, THE FASTENER WILL BE DRAWN INTO THE FRAME BRACKET MOUNTING HOLES. TIGHTEN THE NUT UNTIL THE HEAD OF THE FASTENER IS FLUSH WITH THE INSIDE OF THE HANGER. (HEX NUT CAN BE REUSED TO SEAT ALL FOUR RIBBED-NECK FASTENERS. DO NOT USE PREVAILING TORQUE NUTS TO SEAT RIBBED-NECK BOLTS)
- TIGHTENING SIDE MOUNTING BOLTS.**  
PLACE 1/2-13 PREVAILING TORQUE NUTS ONTO RIBBED-NECK FASTENERS AND TORQUE TO SPECIFIED VALUE.
- INSTALLING FRONT MOUNTING BOLT.**  
PLACE 5/8-11 X 1.50 CARRIAGE BOLT THROUGH FRONT MOUNTING HOLE WITH THE BOLT HEAD ON THE INSIDE OF THE FRAME BRACKET (NEAREST THE PIVOT BUSHING). HOLD CARRIAGE BOLT IN HOLE AND PLACE 5/8-11 TORQUE PREVAILING HEX NUT ONTO BOLT AND TORQUE TO SPECIFIED VALUE.
- AIR SPRING ASSEMBLY.**  
ASSEMBLE THE AIR SPRING WITH THE AIR INLET FACING TO THE FRONT OR REAR, DEPENDING ON AIR LINE ORIENTATION PREFERENCE. TIGHTEN THE 3/4-16 FLANGE NUT AND 3/8-16 X .88 BOLTS TO SPECIFIED TORQUES.

## SUSPENSION SPACING DETAIL

SCALE: 1:6



### NOTES:

- 14" RIDE HEIGHT SHOWN, INSTALLATION IS THE SAME FOR ALL RIDE HEIGHTS
- SEE L1182 CONTROLS PARTS CATALOG FOR LIFT AXLE CONTROL KITS

<b>HENDRICKSON</b> TRAILER COMMERCIAL VEHICLE SYSTEMS 2070 INDUSTRIAL PLACE S.E., CANTON, OH 44707-2800 U.S.A.	UNLESS OTHERWISE NOTED: TOLERANCES ARE: DIMENSIONS ARE:	5 33407 K/E 01/20/20 4 31111 SLB 05-15-18 3 26298 SLB 02-07-17 2 25803 SLB 9-15-16	DRAWN BY S. BIRKEY CHKD BY J. HOFER APP'D BY K. ERDMANN	4-29-16 THIS DRAWING IS THE CONFIDENTIAL PROPERTY OF HENDRICKSON	CONNEX® ST <sup>5</sup> INSTALLATION DRAWING	SCALE: 1:4 DRAWING NO.	SIZE: D PAGE: 8 OF 8
	DIMENSIONS ADHERE TO ANSI Y14.5M-1982 3RD ANGLE PROJECTION	INCHES .X: ± .1 .XX: ± .06 .XXX: ± .030 ANGULAR: ± 0.5°	REV. ECN NO. BY DATE	DATE	D-36237	P PRODUCTION	5