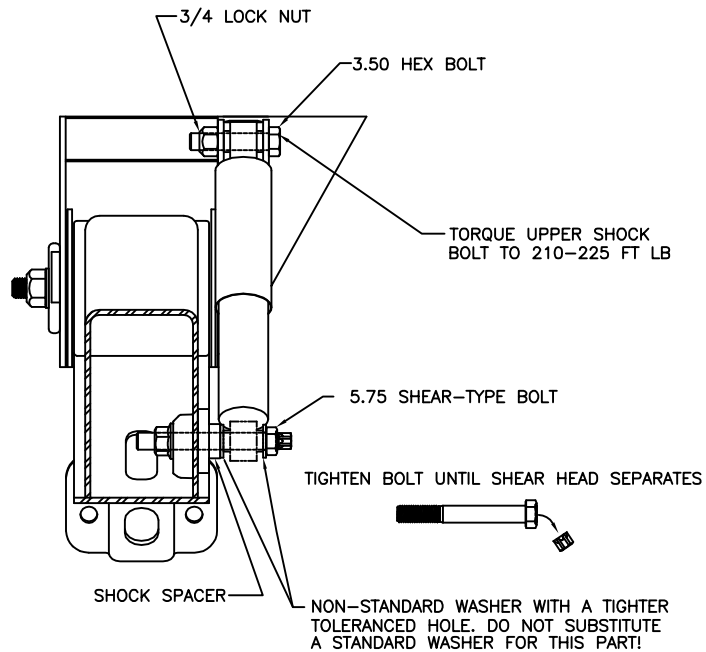


NOTES:

- SEE L1073 FOR INFORMATION ON ASSEMBLY, WELDING PROCEDURE, AND ALIGNMENT.
- SEE SERVICE MANUAL FOR INFORMATION CONCERNING MAINTENANCE PROCEDURE.
- MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING PATENTS:
OTHER PATENTS PENDING U.S. PATENT NOS. - 5,366,237 - 4,166,640
- REQUIRED CROSSMEMBER LOCATIONS ARE SHOWN. ACTUAL SIZE AND SHAPE MAY VARY WITH TRAILER DESIGN. IT IS THE RESPONSIBILITY OF THE SUSPENSION INSTALLER TO ENSURE STRUCTURAL ADEQUACY OF TRAILER FRAME AND CROSSMEMBERS.
- SEE L1182 FOR HEIGHT CONTROL KIT OPTIONS.
- SEE PAGE 3 FOR C-CHANNEL REQUIREMENTS.
- FOR NON HENDRICKSON SLIDER, THE OPTION OF NONE FOR FRAME ATTACHMENT SHOULD BE SELECTED. THE SUSPENSION WILL BE SHIPPED WITHOUT FRAME BRACKETS AND AIR SPRING MOUNTING PLATES. THE SFK CONTAINS FRAME BRACKETS AND AIR SPRING MOUNTING PLATES. THIS KIT IS PURCHASED SEPARATELY AND SHIPPED DIRECTLY TO THE SLIDER MANUFACTURER.
- NOTE SPECIAL AIR SPRING MOUNTING FOR 30K SUSPENSIONS.
- SEE D-29431 FOR DIMENSIONS AND CROSSMEMBER LOCATIONS.
- FOR BOLT-ON MOUNTING PATTERNS, SEE DRAWING D-26651.



O.E.M. INSTALLED SHOCK BOLT KIT

CAUTION

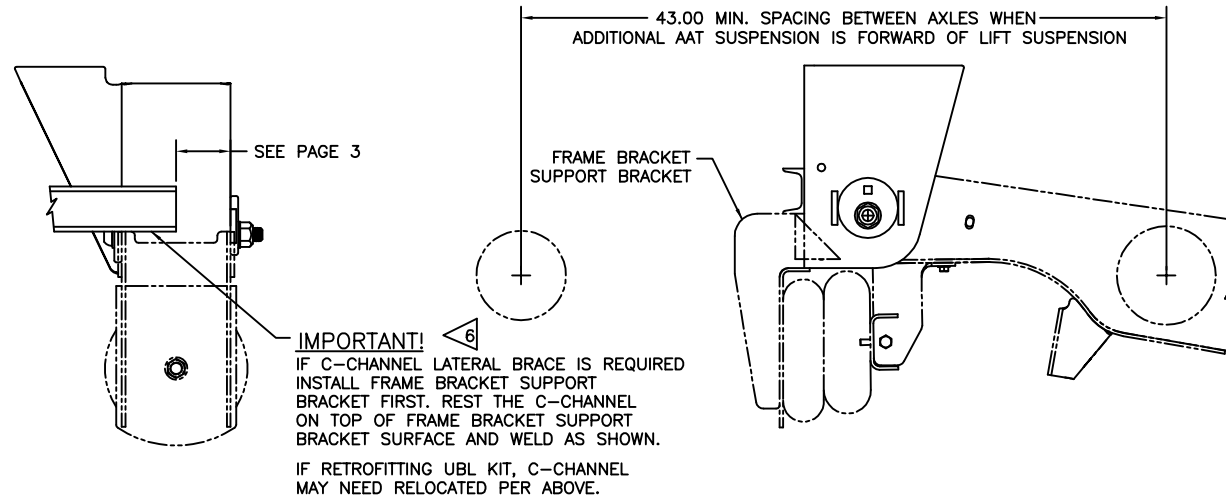
CLEARANCE SPECIFICATIONS:

- 1.0 INCH MINIMUM CLEARANCE REQUIRED BETWEEN TOP OF TIRE AND BOTTOM OF TRAILER STRUCTURE WHEN AXLE IS AT FULL JOUNCE.
- 2.0 INCHES MINIMUM CLEARANCE REQUIRED BETWEEN INSIDE OF TIRE AND TRAILER STRUCTURE FOR LATERAL MOVEMENT.
- .75 INCH MINIMUM CLEARANCE MUST BE MAINTAINED AROUND AIR SPRING WHEN IT IS AT MAXIMUM DIAMETER.
- SEE "30K AIR SPRING MOUNTING" VIEW FOR MINIMUM AIR SPRING BEAD PLATE CLEARANCE FOR 30K SUSPENSIONS.

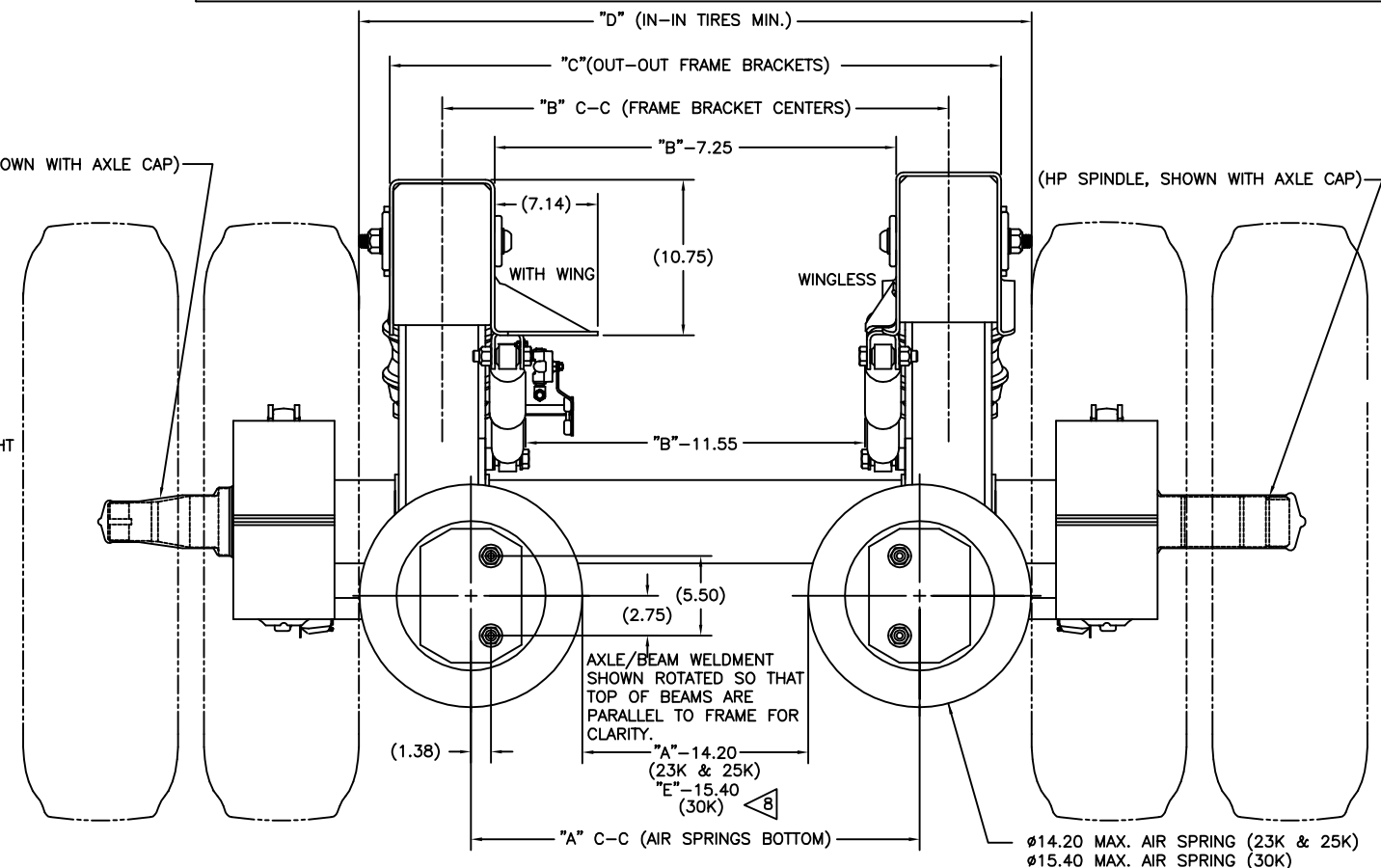
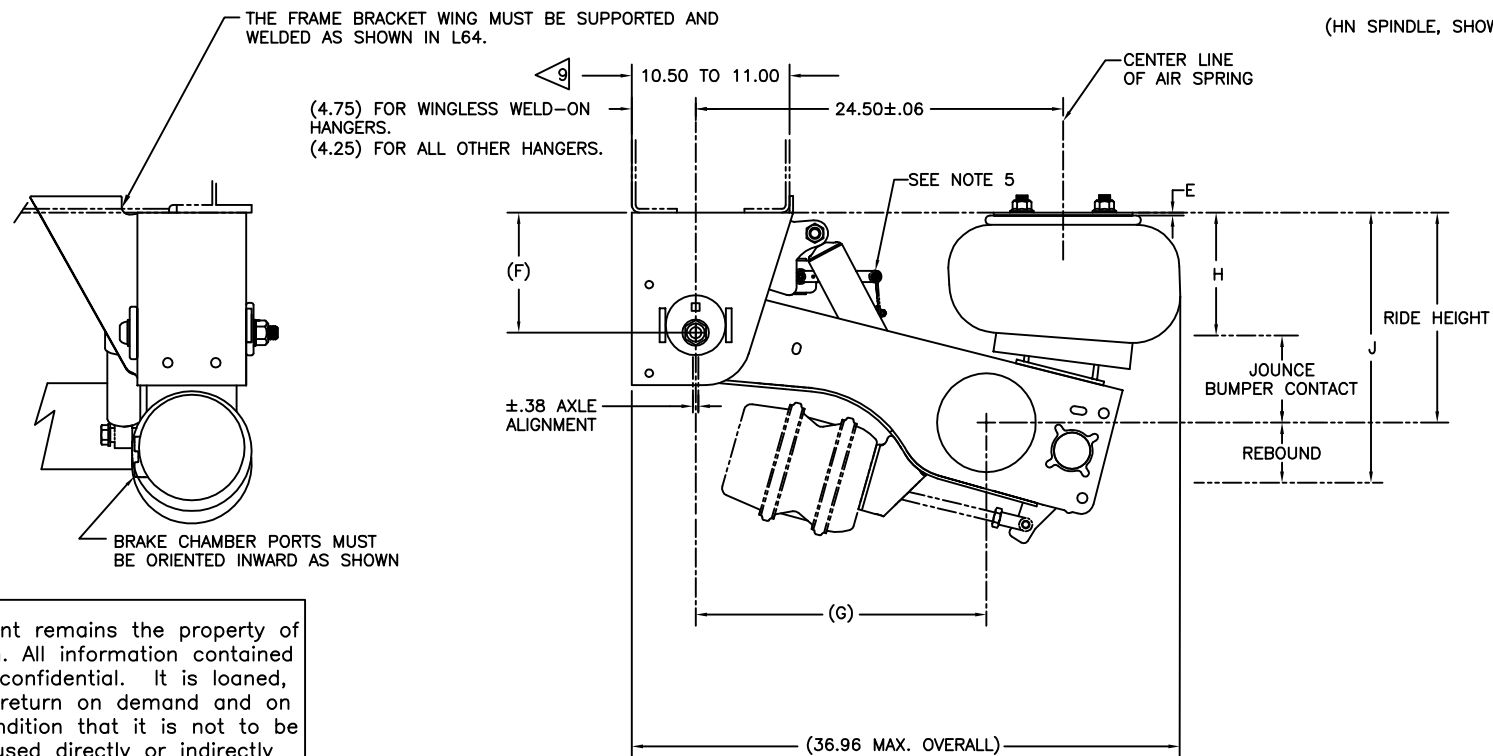
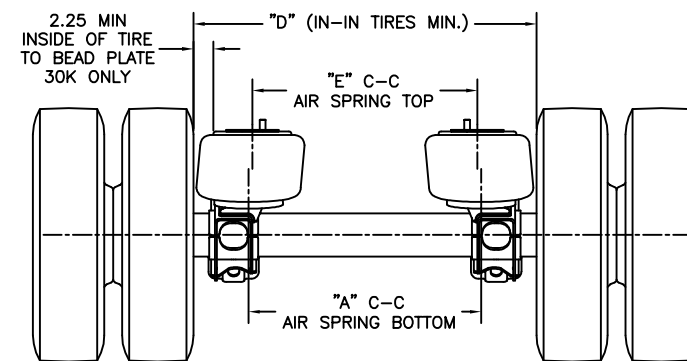
MODEL	23K & 25K					30K				
TRACK WIDTH	71.5	73.0	77.5	83.5	85.0	71.5	73.0	77.5	83.5	85.0
DIMENSION "A" (IN)	31.00	32.50	37.00	43.00	44.50	31.00	32.50	37.00	43.00	44.50
DIMENSION "B" (IN)	35.00	36.50	41.00	47.00	48.50	35.00	36.50	41.00	47.00	48.50
DIMENSION "C" (IN)	42.25	43.75	48.25	54.25	55.75	42.25	43.75	48.25	54.25	55.75
DIMENSION "D" (IN)*	46.50	48.00	52.50	58.50	60.00	46.50	48.00	52.50	58.50	60.00
DIMENSION "E" (IN)	31.00	32.50	37.00	43.00	44.50	30.00	31.50	36.00	42.00	43.50

*Contact Hendrickson Engineering for direction when Tire Spacing is less than the charted values

C-CHANNEL REQUIREMENT WHEN USING UNDER BEAM LIFT ASSEMBLY



30K AIR SPRING MOUNTING



Ø14.20 MAX. AIR SPRING (23K & 25K)
Ø15.40 MAX. AIR SPRING (30K)

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SEE PAGE 2 FOR TABULATED DIMENSIONS SHOWN ABOVE

H. HENDRICKSON
TRAILER COMMERCIAL VEHICLE SYSTEMS
2070 INDUSTRIAL PLACE S.E., CANTON, OH 44707-8600 U.S.A.

UNLESS OTHERWISE NOTED, TOLERANCES ARE:	10	31446	D/D	5/23/18	DRW BY	R. MUCKELRATH	16 NOV 09
INCHES ARE:	9	26252	ZAG	1/27/17	CHK'D BY	C. ANDERSON	THE SHOWN IS THE CORRECTED PROPERTY OF HENDRICKSON
± .1	8	24394	D/TU	08/03/15	APP'D BY	S. FULTON	
± .06	7	22168	RM	5/31/13			
± .030							
ANGULAR: ± 0.5°							

INTRAAX® AAT
INSTALLATION DRAWING

SCALE: 1:66=1.000
DRAWING No. D-30815
PAGE 1 OF 5

AAT 23K DIMENSIONS										
RIDE HEIGHT	JOUNCE	REBOUND	BUMPER CONTACT	E	F	G	H	J		
STANDARD TRAVEL										
13.5	3.1	5.4	2.5	.19	8.0	19.5	10.4	18.9		
14.0	3.6	4.9	3.0			19.4				
15.0	3.7	3.9	3.2			19.0	11.3			
16.0	3.8	4.8	3.2	.94	10.0	19.4	12.2	20.8		
17.0	3.8	3.8	3.2	.19		19.0	13.2			
18.0	3.8	4.8	3.3	.94		19.4	14.2			
19.0	3.9	3.8	3.3	2.06	12.0	19.0	15.1	22.8		
LIMITED REBOUND TRAVEL										
14.0	3.6	3.6	3.0	.19	8.0	19.4	10.4	17.5		
16.0	3.8	3.3	3.2	.94	10.0		12.2	19.3		
18.0	3.8	3.3	3.3		12.0		14.2	21.3		
HIGH CONTROL TRAVEL										
13.5	2.7	5.9	2.2	.19	10.0	20.0	10.8	19.4		
14.0	3.2	5.4	2.7			19.9				
15.0	3.4	4.4	2.8			19.7	11.6			
16.0	3.5	5.7	2.9	.94	12.0	19.9	12.5	21.7		
17.0	3.5	4.7	2.9	.19		19.7	13.5			
LIMITED JOUNCE TRAVEL										
14.0	2.7	4.9	2.2	.19	8.0	19.4	11.3	18.9		
15.0	2.8	3.9	2.3	1.31		19.0	12.2			
16.0	2.8	4.8	2.2	.19		19.4	13.2			
17.0	2.9	3.8	2.3	1.31	10.0	19.0	14.1	20.8		
⑩ ZMD TRAVEL										
14.0	3.3	4.3	2.9	.19	8.0	19.4	10.7	18.3		
15.0	3.4	4.5	3.1	.19		19.0	11.6			
16.0	3.2	5.3	2.8	1.31	10.0	19.4	12.8	21.3		
17.0	3.5	4.3	3.1	.19		19.0	13.5			

AAT 25K DIMENSIONS										
RIDE HEIGHT	JOUNCE	REBOUND	BUMPER CONTACT	E	F	G	H	J		
STANDARD TRAVEL										
13.5	2.9	5.4	2.3	.19	8.0	19.5	10.6	18.9		
14.0	3.4	4.9	2.8			19.4				
15.0	3.6	3.9	3.0			19.0	11.5			
16.0	3.6	4.8	3.0	.94	10.0	19.4	12.5	20.8		
17.0	3.6	3.8	3.1	.19		19.0	13.5			
18.0	3.7	4.8	3.1	.94		19.4	14.4			
19.0	3.7	3.8	3.2	2.06	12.0	19.0	15.4	22.8		
LIMITED REBOUND TRAVEL										
14.0	3.4	3.6	2.8	.19	8.0	19.4	10.7	17.6		
16.0	3.6	3.3	3.0	.94	10.0		12.5	19.3		
18.0	3.7	3.3	3.1		12.0		14.4	21.3		
HIGH CONTROL TRAVEL										
13.5	2.6	5.9	2.0	.19	10.0	20.0	11.0	19.4		
14.0	3.1	5.4	2.5			19.9				
15.0	3.2	4.4	2.7			19.7	11.9			
16.0	3.3	5.7	2.7	.94	12.0	19.9	12.8	21.7		
17.0	3.3	4.7	2.7	.19		19.7	13.8			
LIMITED JOUNCE TRAVEL										
14.0	2.6	4.9	2.0	.19	8.0	19.4	11.4	18.9		
15.0	2.7	3.9	2.1	1.31		19.0	12.3			
16.0	2.6	4.8	2.1	.19		19.4	13.4			
17.0	2.7	3.8	2.2	1.31	10.0	19.0	14.3	20.8		

AAT 30K DIMENSIONS										
RIDE HEIGHT	JOUNCE	REBOUND	BUMPER CONTACT	E	F	G	H	J		
STANDARD TRAVEL										
13.5	2.9	5.4	2.3	.19	8.0	19.5	10.6	18.9		
14.0	3.4	4.9	2.8			19.4				
15.0	3.6	3.9	3.0			19.0	11.5			
16.0	3.6	4.8	3.0	.94	10.0	19.4	12.5	20.8		
17.0	3.6	3.8	3.1	.19		19.0	13.5			
18.0	3.7	4.8	3.1	.94		19.4	14.4			
19.0	3.7	3.8	3.2	2.06	12.0	19.0	15.4	22.8		
HIGH CONTROL TRAVEL										
13.5	2.6	5.9	2.0	.19	10.0	20.0	11.0	19.4		
14.0	3.1	5.4	2.5			19.9				
15.0	3.2	4.4	2.7			19.7	11.9			
16.0	3.3	5.7	2.7	.94	12.0	19.9	12.8	21.7		
17.0	3.3	4.7	2.7	.19		19.7	13.8			
LIMITED JOUNCE TRAVEL										
14.0	2.6	4.9	2.0	.19	8.0	19.4	11.4	18.9		
15.0	2.7	3.9	2.1	1.31		19.0	12.3			
16.0	2.6	4.8	2.1	.19		19.4	13.4			
17.0	2.7	3.8	2.2	1.31	10.0	19.0	14.3	20.8		

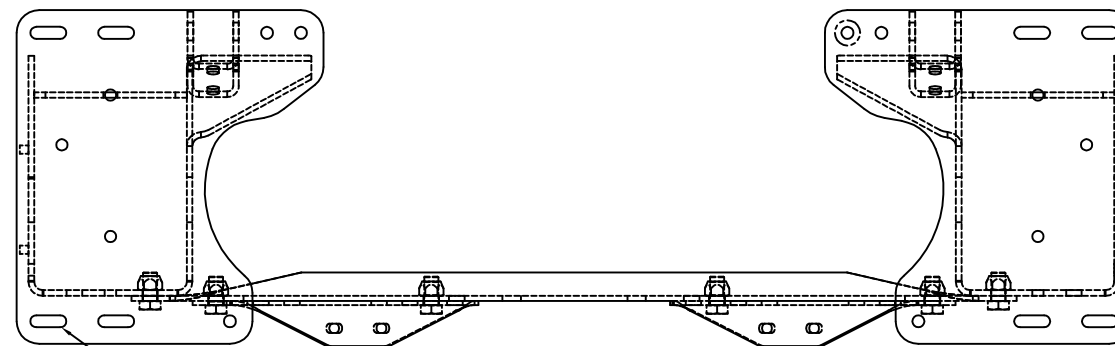
NOTES:

- SEE L600 FOR SUSPENSION WEIGHT.
- SEE L1073 FOR RIDE HEIGHT RANGE.

- ③ JOUNCE AND REBOUND DIMENSIONS CHANGE AS THE RIDE HEIGHT CHANGES FROM THE NOMINAL POSITION.
- ④ DIMENSIONS "H" & "J" WILL REMAIN CONSTANT REGARDLESS OF RIDE HEIGHT VARIATION FROM NOMINAL POSITION.
- RIDE HEIGHT - JOUNCE = "H"
RIDE HEIGHT + REBOUND = "J"

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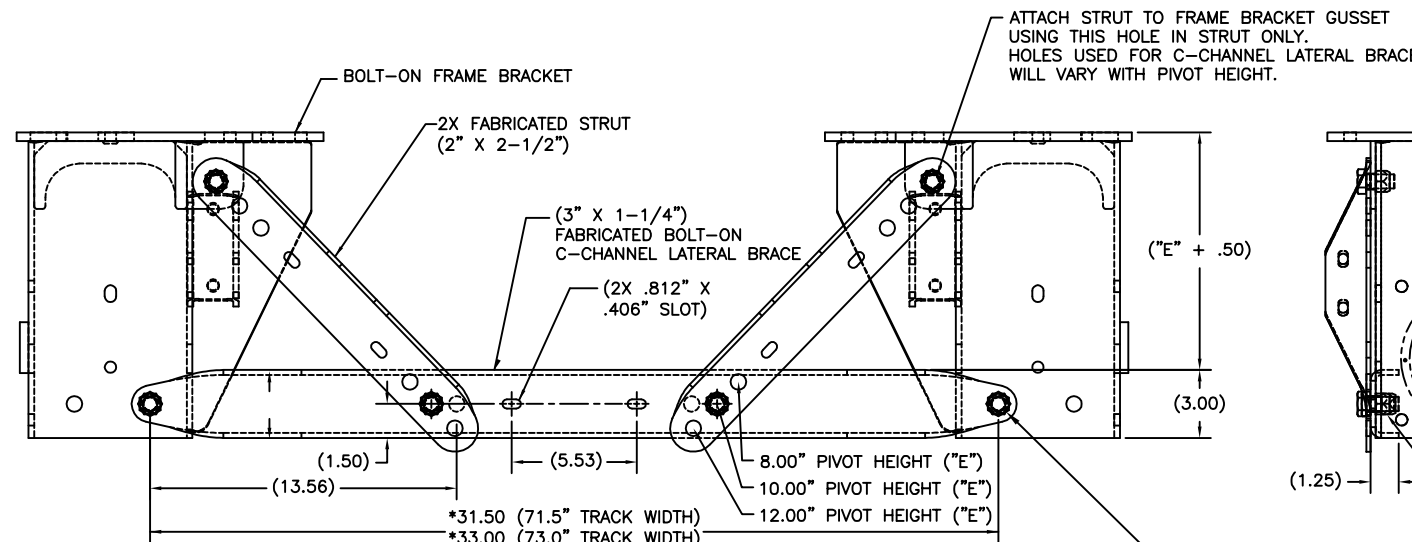
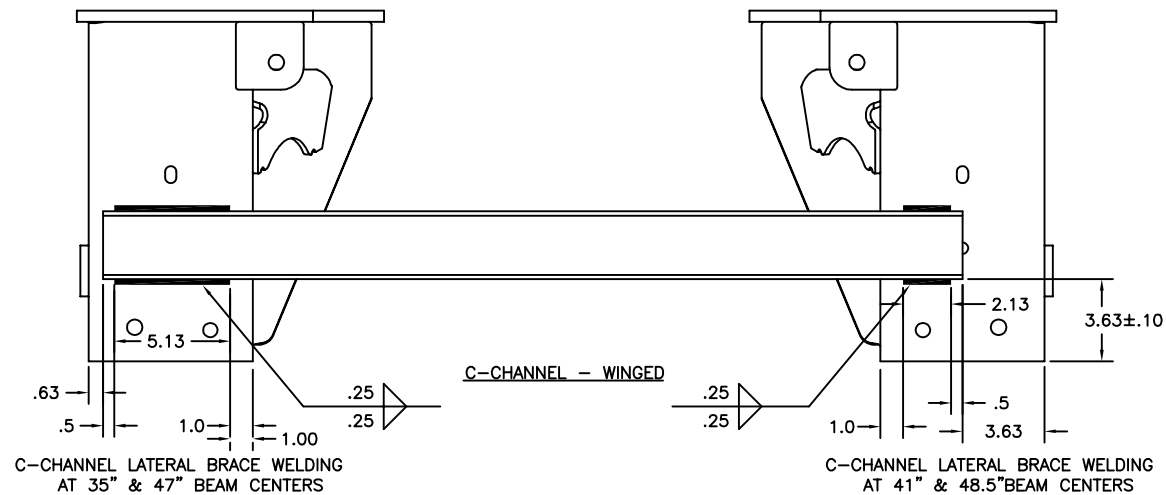
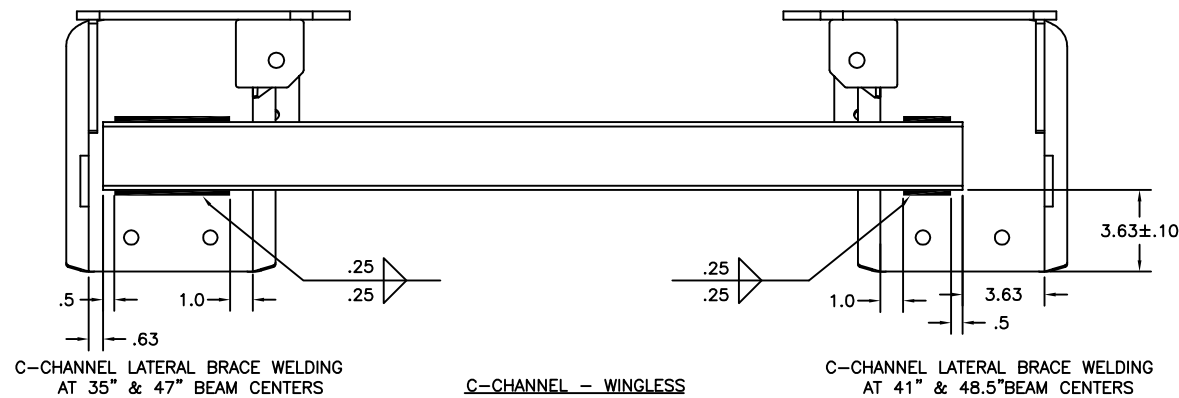
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HARDENED WASHERS (PER ASTM F436) ARE RECOMMENDED FOR ALL SLOTTED HOLES.

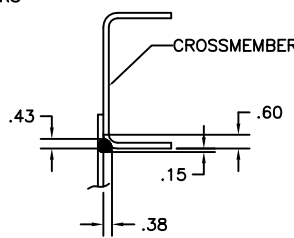
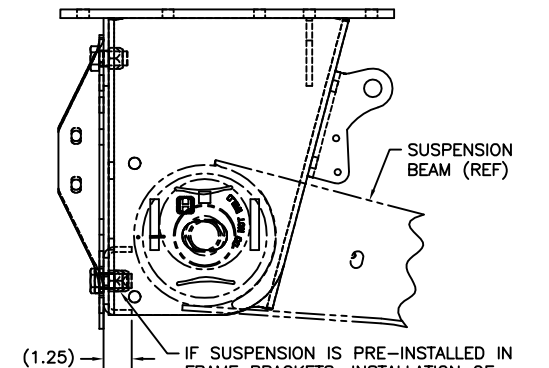
INSTALLATION SEQUENCE:

1. LOCATE FRAME BRACKETS ONTO TRAILER FRAME AND LOOSELY INSTALL MOUNTING BOLTS USING HARDENED WASHERS AT ALL SLOTTED HOLE LOCATIONS.
2. INSTALL C-CHANNEL LATERAL BRACE, USING 5/8" MOUNTING HOLES ON FRONT OF FRAME BRACKETS.
3. INSTALL STRUTS, USING 5/8" MOUNTING HOLES IN FRAME BRACKET GUSSET AND C-CHANNEL LATERAL BRACE.
4. TIGHTEN C-CHANNEL LATERAL BRACE MOUNTING BOLTS AND STRUT MOUNTING BOLTS, IF PRESENT.
5. TIGHTEN FRAME BRACKET MOUNTING BOLTS.



- *31.50 (71.5" TRACK WIDTH)
 - *33.00 (73.0" TRACK WIDTH)
 - *37.50 (77.5" TRACK WIDTH)
 - *43.50 (83.5" TRACK WIDTH)
- OTHER TRACK WIDTHS NOT AVAILABLE
- *THIS DIMENSION MUST BE MAINTAINED WITHIN ±.06"
- BOLT-ON C-CHANNEL LATERAL BRACE WITH STRUTS
- BOLT-ON FRAME BRACKET

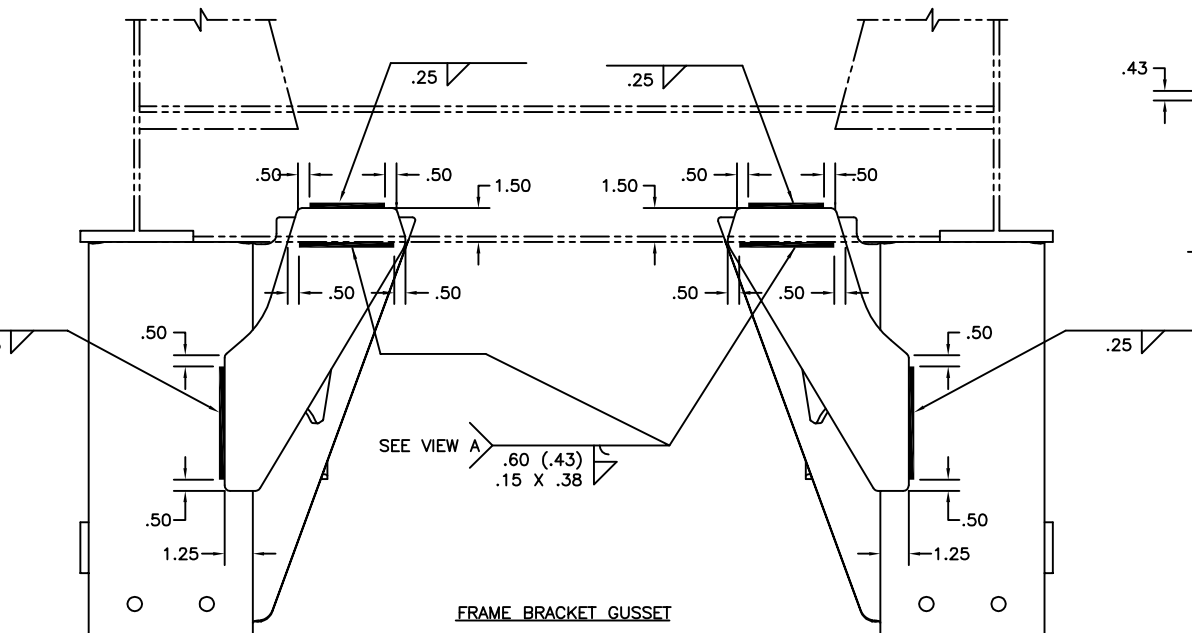
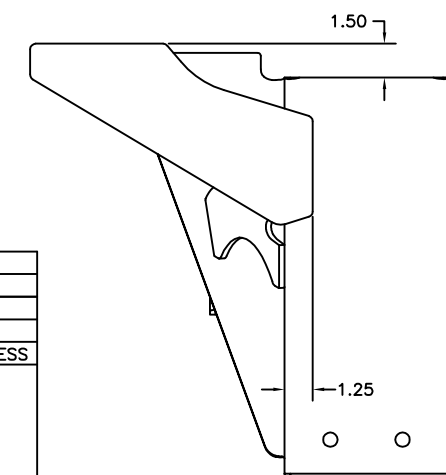
USE 5/8" HEX HEAD CAP SCREW WITH PREVAILING TORQUE NUT. SEE KIT A-30720. TORQUE TO 190±20 FT-LB.



FRAME BRACKET BRACING					
SUSPENSION CAPACITY-- AAT 23K, 25K, AND 30K					
FRAME ATTACHMENT--		WELD-ON		BOLT-ON	
HIGH CONTROL--		YES* -OR- NO		NO YES	
FRAME BRACKET STYLE--		WINGED	WINGLESS	WINGED	WINGLESS
RIDE HEIGHT	13.5	FRAME BRACKET GUSSET REQUIRED	C-CHANNEL REQUIRED	NONE	C-CHANNEL REQUIRED
	14.0				
	15.0				
	16.0				
	17.0				
18.0			C-CHANNEL REQUIRED		
19.0			C-CHANNEL REQUIRED		

* HIGH CONTROL IS NOT AVAILABLE IN 18 AND 19 RIDE HEIGHTS.

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.

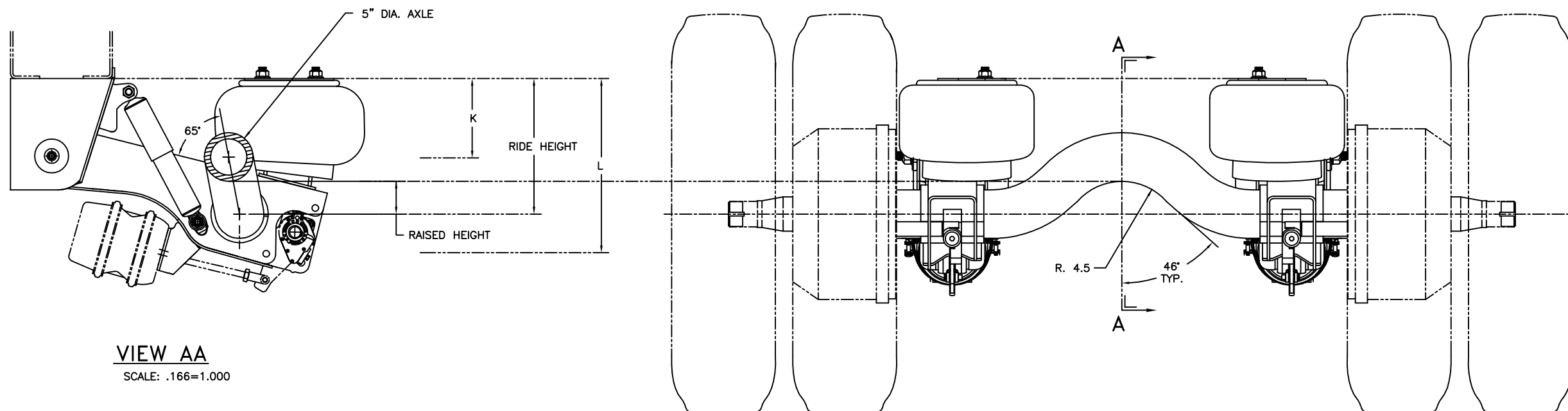


NOTES:

1. THIS PAGE IS FOR AAT 23K AND 25K SUSPENSIONS WITH RAISED CENTER AXLE OPTION.
2. SUSPENSION DIMENSIONS AND TRAVEL: SEE PAGE 2.
3. SEE L-1065 FOR SUSPENSION WEIGHT.

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RIDE HEIGHT	RAISED HEIGHT		
	AT RIDE HEIGHT	AT FULL JOUNCE (K)	AT FULL REBOUND (L)
AAT 23K AND 25K RAISED CENTER AXLE DIMENSIONS			
STANDARD TRAVEL			
13.5	3.3	3.2	3.4
14.0	3.3	3.2	3.4
15.0	3.4	3.3	3.4
16.0	3.3	3.2	3.4
17.0	3.4	3.3	3.4
18.0	3.3	3.2	3.4
19.0	3.4	3.3	3.4
LIMITED REBOUND TRAVEL			
14.0	3.3	3.2	3.4
16.0	3.3	3.2	3.4
18.0	3.3	3.2	3.4
HIGH CONTROL TRAVEL			
13.5	3.1	3.0	3.4
14.0	3.2	3.0	3.4
15.0	3.3	3.1	3.4
16.0	3.2	3.0	3.4
17.0	3.3	3.1	3.4

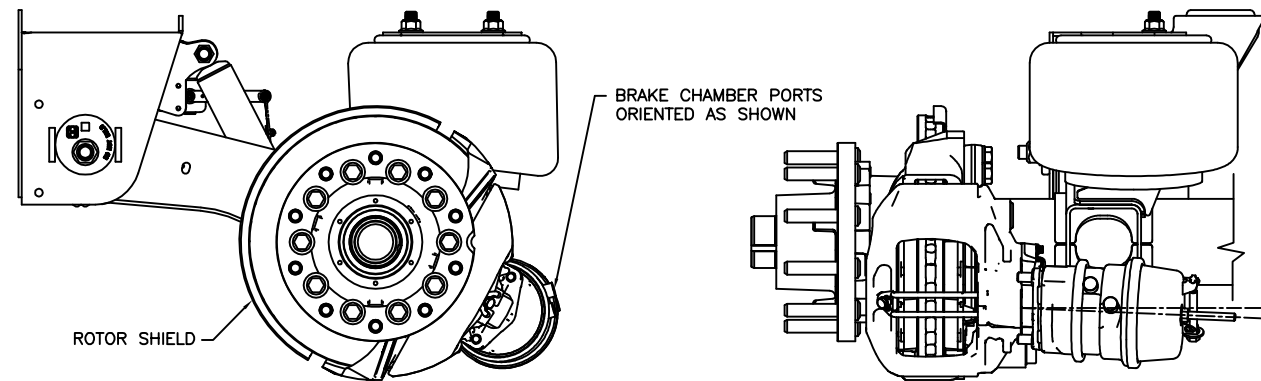


VIEW AA
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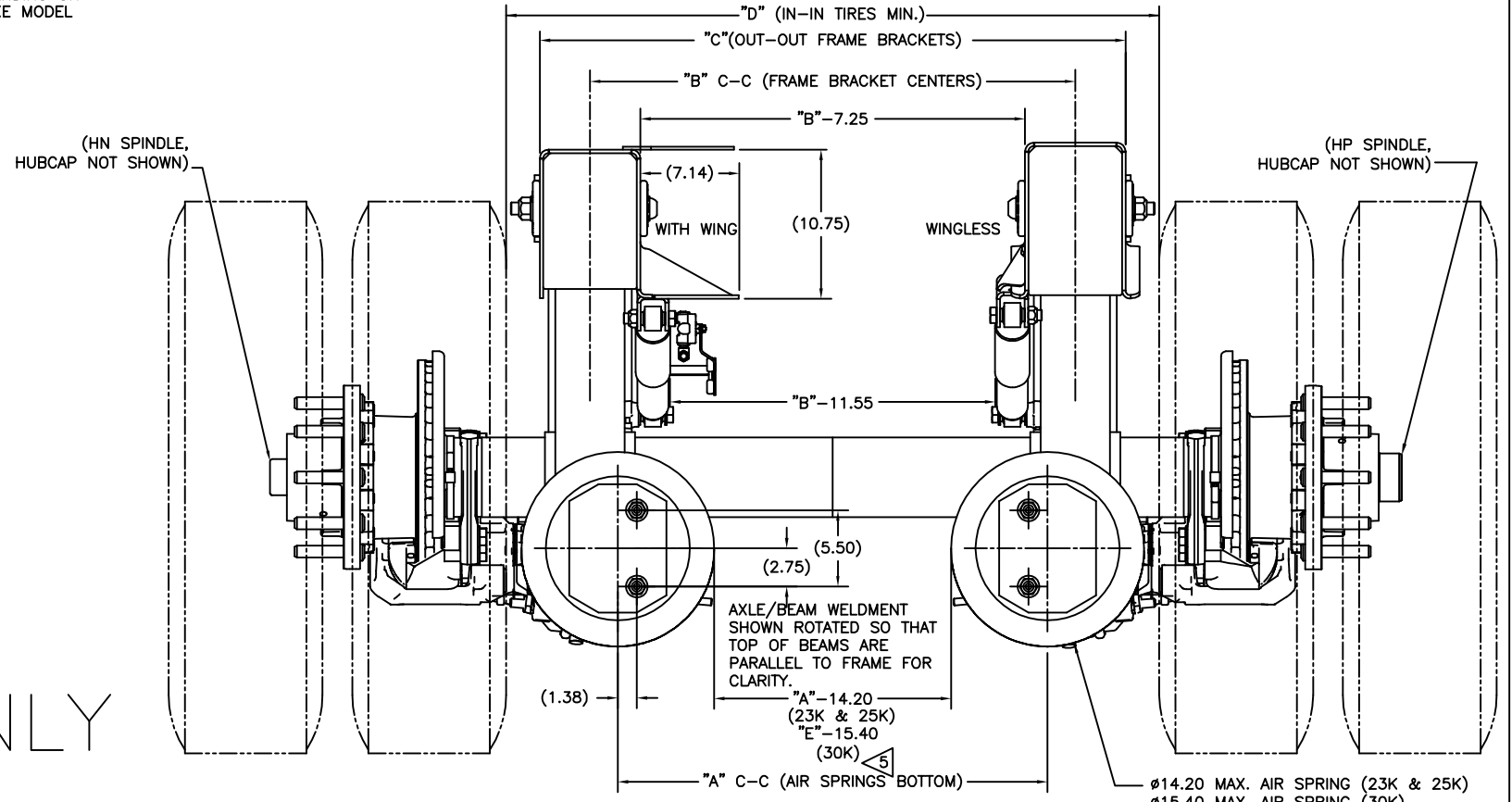
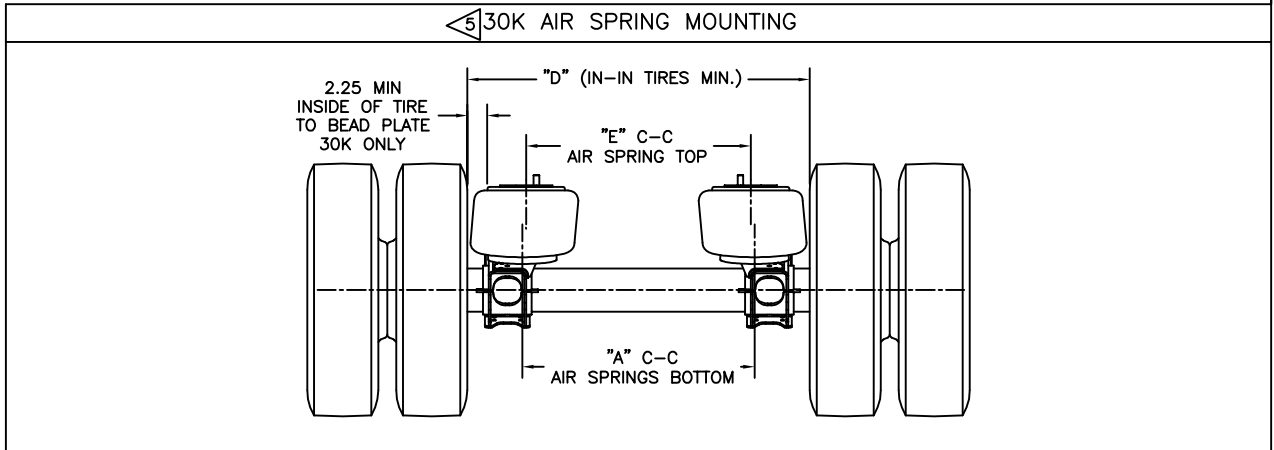
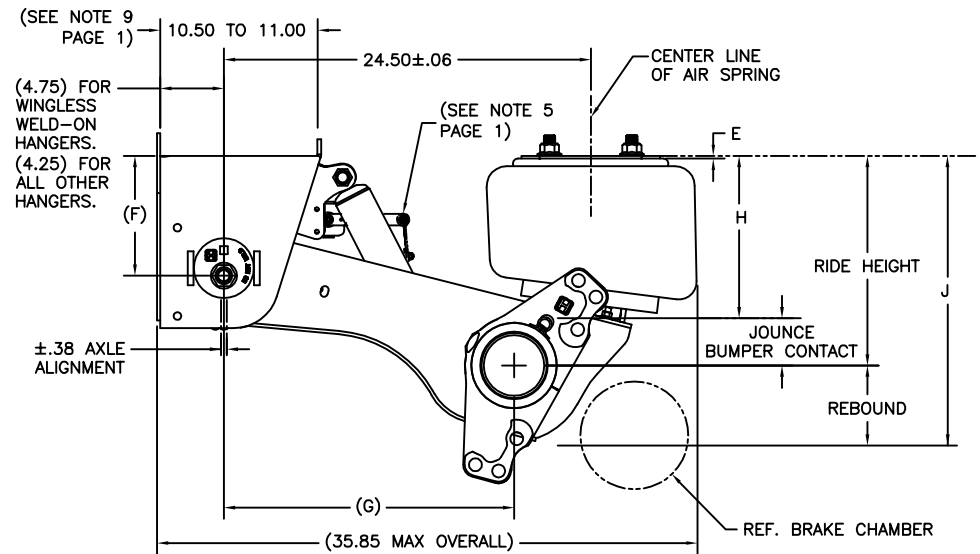
NOTES:

1. THIS PAGE IS FOR AAT 23K, 25K, AND 30K SUSPENSIONS WITH AIR DISC BRAKES OPTION.
2. MERITOR WABCO PAN22 BRAKE CALIPERS AND GUNITE DUCTILE IRON HUBS WITH GUNITE ROTORS REPRESENTED IN GRAPHICS.
3. NOT ALL HUB/ROTOR OPTIONS ARE AVAILABLE WITH ALL BRAKE OPTIONS.
4. AIR DISC BRAKES COMPATIBLE WITH 22.5" OR 24.5" TIRES ONLY.
5. NOTE SPECIAL AIR SPRING MOUNTING FOR 30K SUSPENSIONS.

REFERENCE VIEWS WITH BRAKE CALIPERS, BRAKE CHAMBERS, HUB/ROTORS, AND ROTOR SHIELDS INSTALLED



NOTE:
BRAKE CHAMBERS
MAY BE ORIENTED
AT AN ANGLE
OR PERPENDICULAR
TO CALIPER
DEPENDING ON
BRAKE MODEL



AIR DISC BRAKES ONLY

SEE PAGE 1 AND 2 FOR TABULATED DIMENSIONS AND NOTES

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HENDRICKSON TRAILER COMMERCIAL VEHICLE SYSTEMS 2070 INDUSTRIAL PLACE S.E., CANTON, OH 44707-2800 U.S.A.	UNLESS OTHERWISE NOTED: TOLERANCES ARE: .001 ± .001 .002 ± .002 .005 ± .005 .010 ± .010 .020 ± .020 .050 ± .050 .100 ± .100 .150 ± .150 .200 ± .200 .300 ± .300 .500 ± .500 1.000 ± 1.000 DIMENSIONS ARE IN INCHES ANGULAR: ± 0.5° DIMENSIONS ADHERE TO ANSI Y14.5M-1982 (REV. 11-1987)	10 31446 DJD 5/23/10 9 26252 ZAG 1/27/11 8 24594 DTU 09/03/10 7 22168 RML 5/31/13	DRAWN BY C. RADCLIFF 5/27/10 CHECKED BY C. ANDERSON APP'D BY K. CARR	THIS DRAWING IS THE CONFIDENTIAL PROPERTY OF HENDRICKSON	SCALE: .166=1.000 SIZE: D PAGE: 5 OF 5
	INTRAAX® AAT INSTALLATION DRAWING			D-30815	