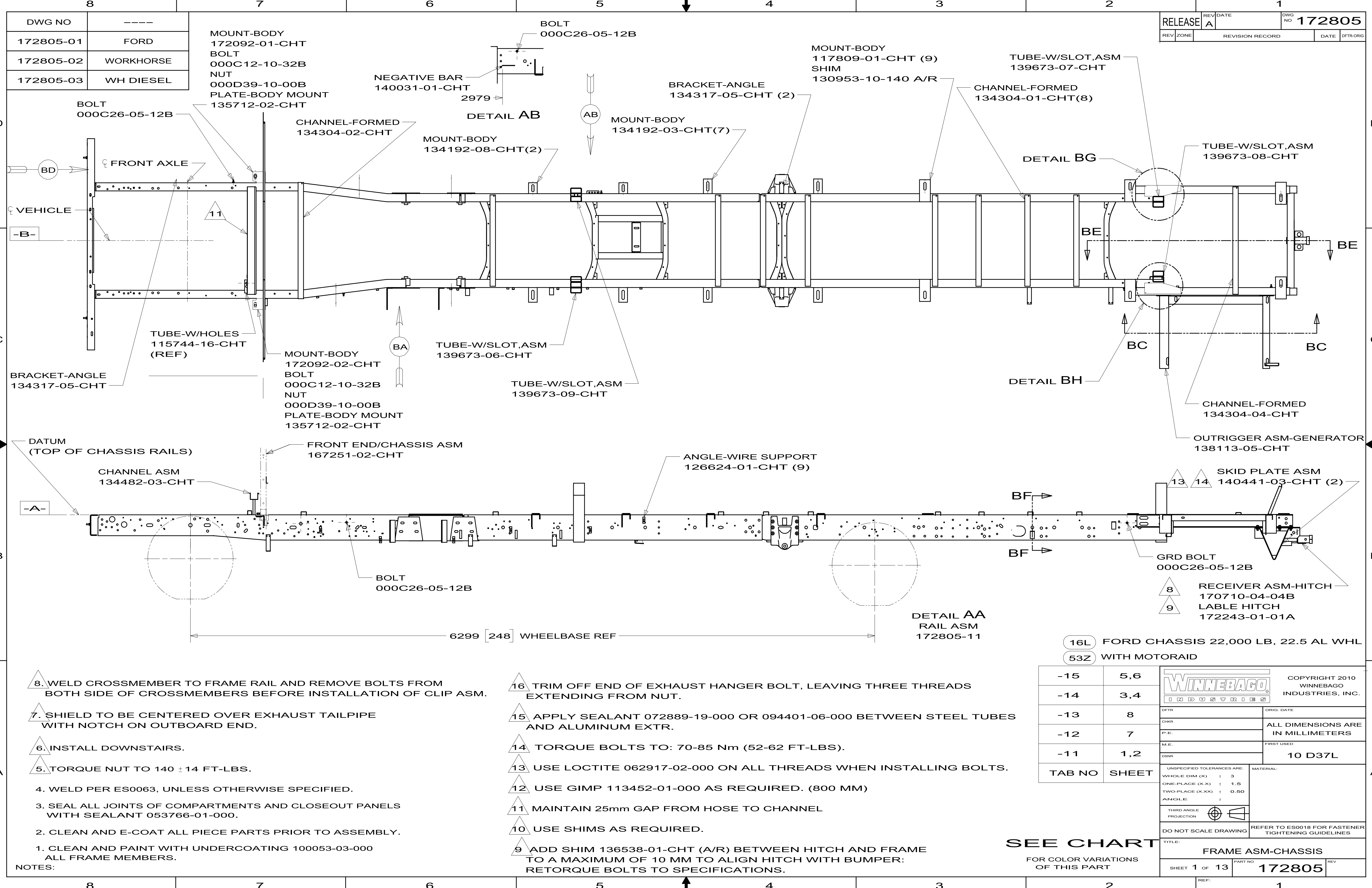




8. WELD CROSSMEMBER TO FRAME RAIL AND REMOVE BOLTS FROM BOTH SIDE OF CROSSMEMBERS BEFORE INSTALLATION OF CLIP ASM.
7. SHIELD TO BE CENTERED OVER EXHAUST TAILPIPE WITH NOTCH ON OUTBOARD END.
6. INSTALL DOWNSTAIRS.
5. TORQUE NUT TO 140 ± 14 FT-LBS.
4. WELD PER ES0063, UNLESS OTHERWISE SPECIFIED.
3. SEAL ALL JOINTS OF COMPARTMENTS AND CLOSEOUT PANELS WITH SEALANT 053766-01-000.
2. CLEAN AND E-COAT ALL PIECE PARTS PRIOR TO ASSEMBLY.
1. CLEAN AND PAINT WITH UNDERCOATING 100053-03-000 ALL FRAME MEMBERS.
- NOTES:

16. TRIM OFF END OF EXHAUST HANGER BOLT, LEAVING THREE THREADS EXTENDING FROM NUT.
15. APPLY SEALANT 072889-19-000 OR 094401-06-000 BETWEEN STEEL TUBES AND ALUMINUM EXTR.
14. TORQUE BOLTS TO: 70-85 Nm (52-62 FT-LBS).
13. USE LOCTITE 062917-02-000 ON ALL THREADS WHEN INSTALLING BOLTS.
12. USE GIMP 113452-01-000 AS REQUIRED. (800 MM)
11. MAINTAIN 25mm GAP FROM HOSE TO CHANNEL
10. USE SHIMS AS REQUIRED.
9. ADD SHIM 136538-01-CHT (A/R) BETWEEN HITCH AND FRAME TO A MAXIMUM OF 10 MM TO ALIGN HITCH WITH BUMPER: RETORQUE BOLTS TO SPECIFICATIONS.

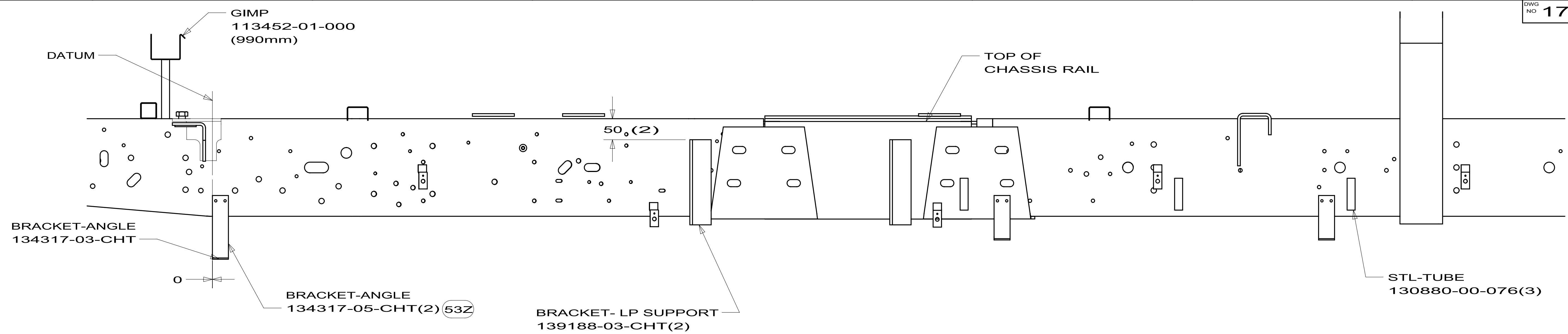
-15		5,6
-14		3,4
-13		8
-12		7
-11		1,2
TAB NO	SHEET	

WINNEBAGO INDUSTRIES

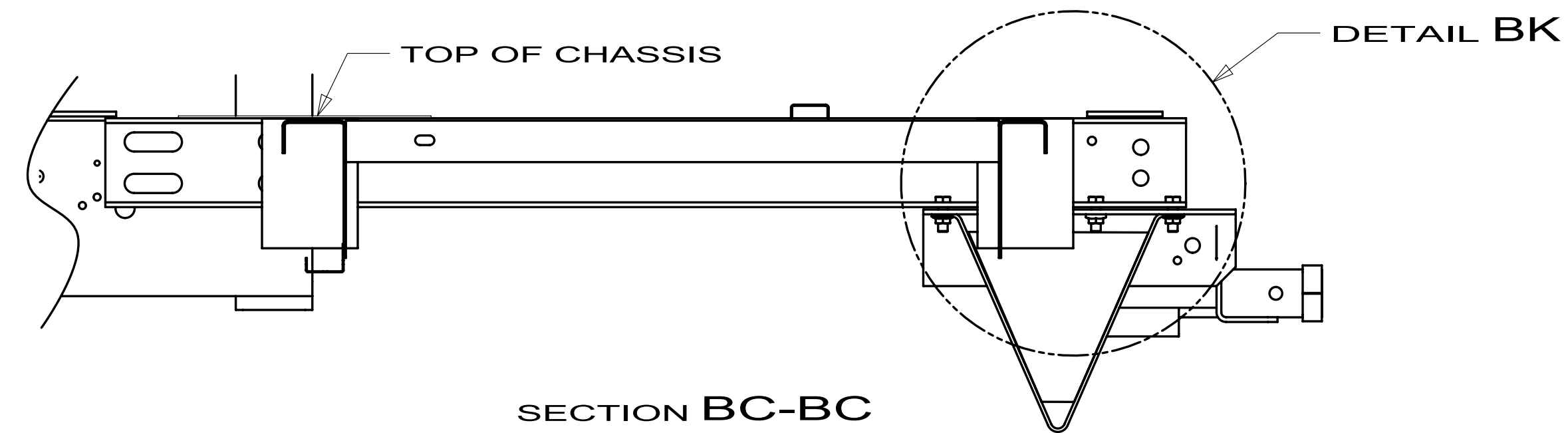
COPYRIGHT 2010
WINNEBAGO INDUSTRIES, INC.

DFTR	ORIG. DATE
CHRR	
P.E.	ALL DIMENSIONS ARE IN MILLIMETERS
M.E.	FIRST USED
DSNR	10 D37L

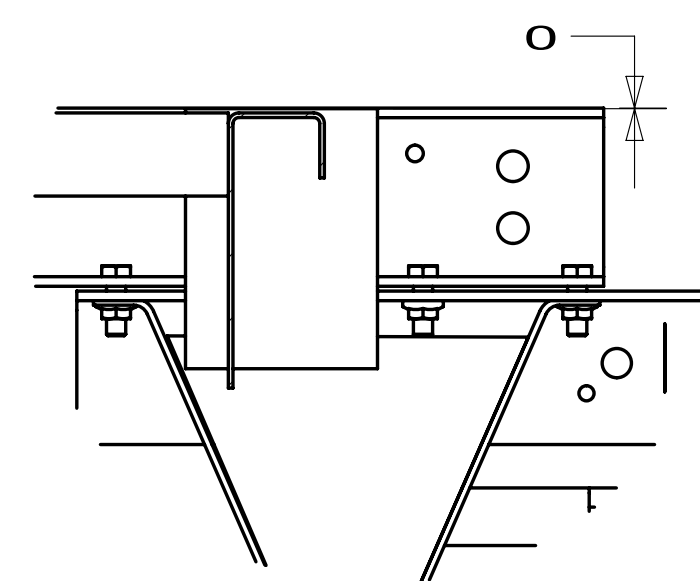
UNSPECIFIED TOLERANCES ARE:		MATERIAL:
WHOLE DIM (X)	± 3	
ONE-PLACE (X.X)	± 1.5	
TWO-PLACE (X.XX)	± 0.50	
ANGLE	±	
THIRD ANGLE PROJECTION		
DO NOT SCALE DRAWING		REFER TO ES0018 FOR FASTENER TIGHTENING GUIDELINES
TITLE: FRAME ASM-CHASSIS		
SHEET 1 OF 13	PART NO 172805	REV
REF: 1		



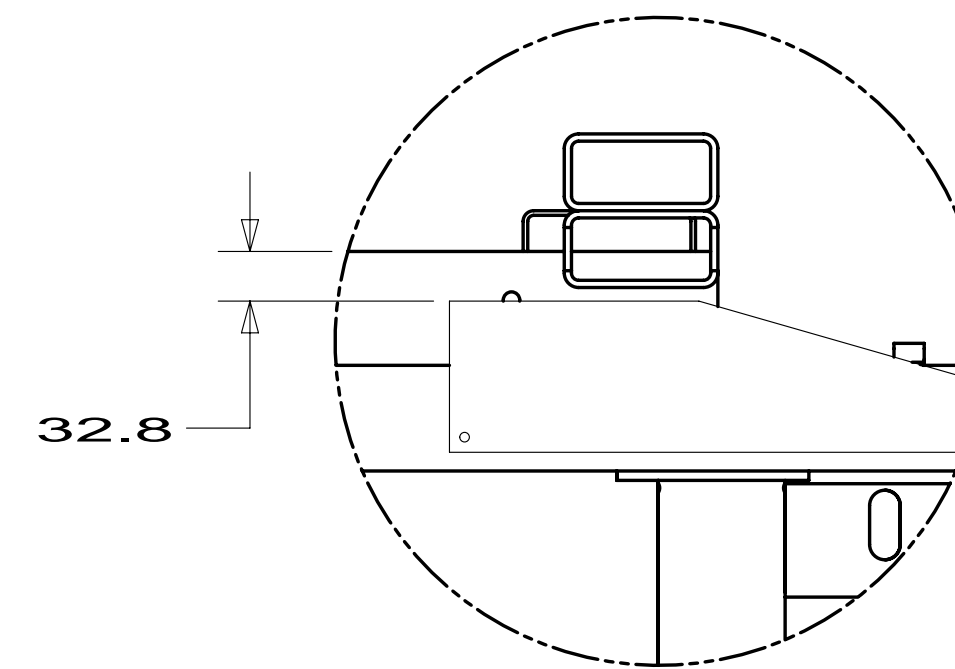
VIEW BA



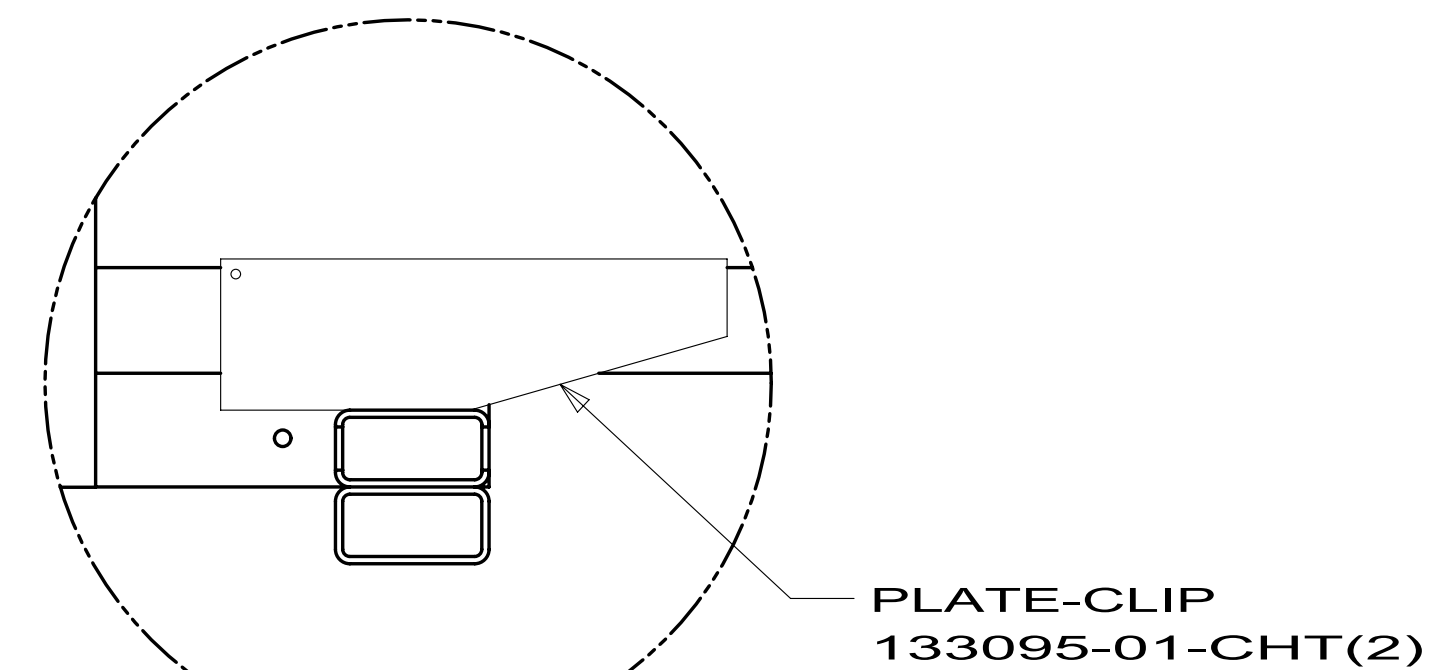
SECTION BC-BC



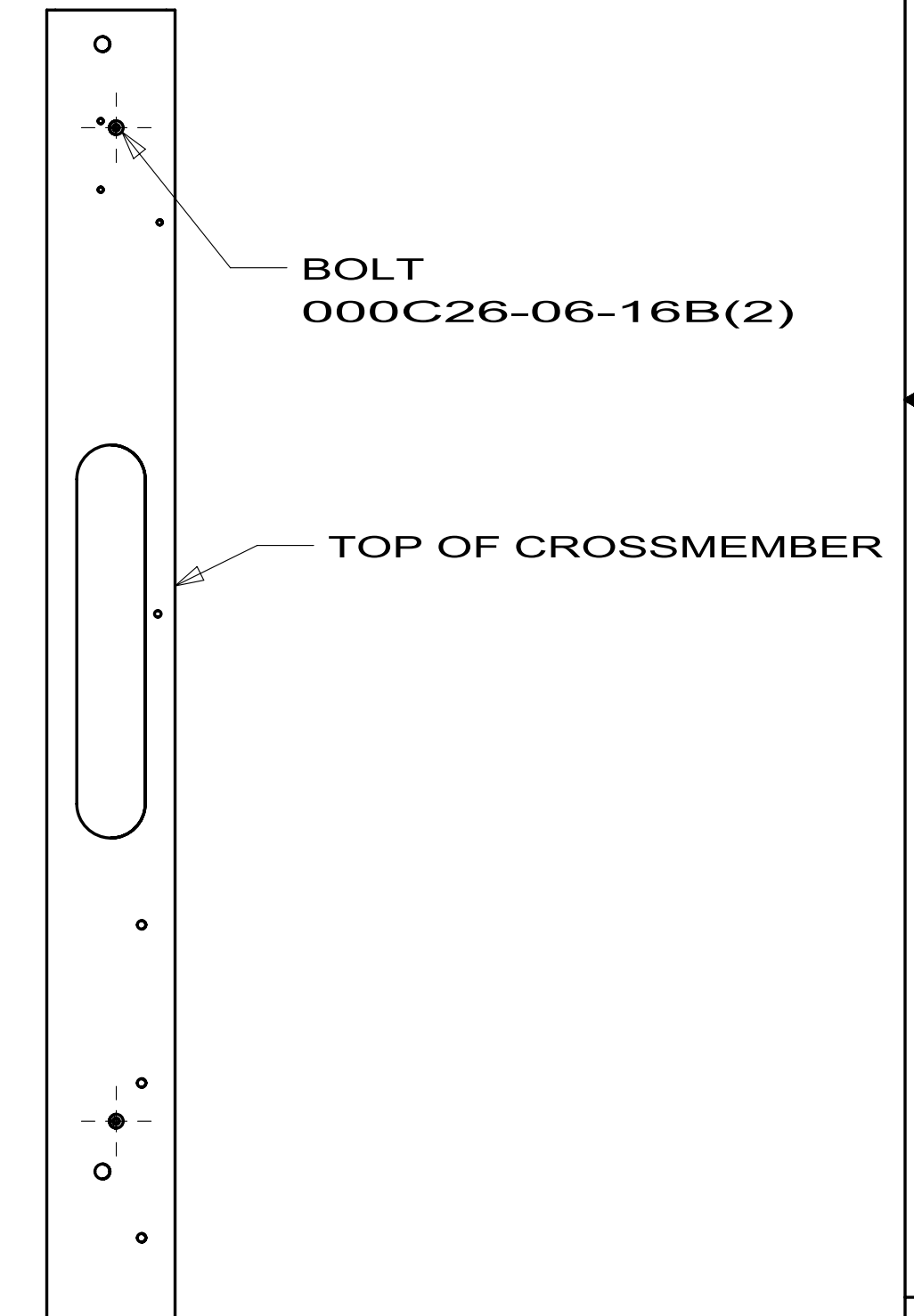
DETAIL BK



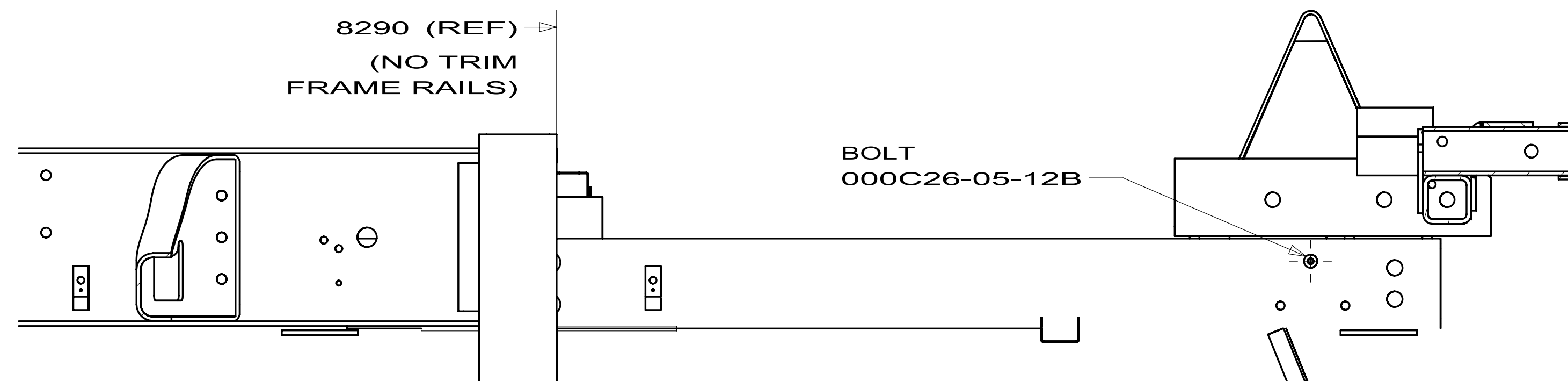
DETAIL BH



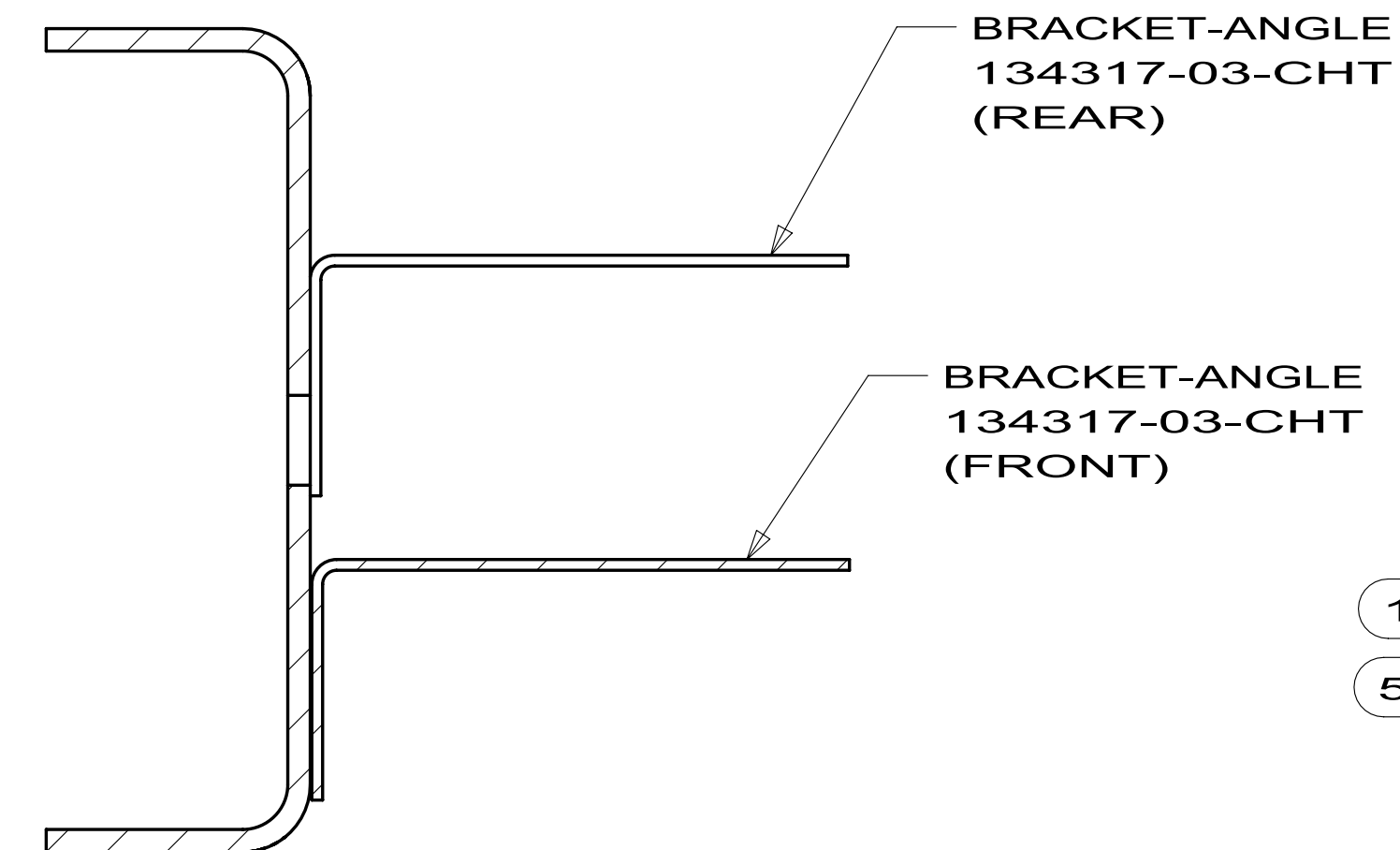
DETAIL BG



VIEW BD



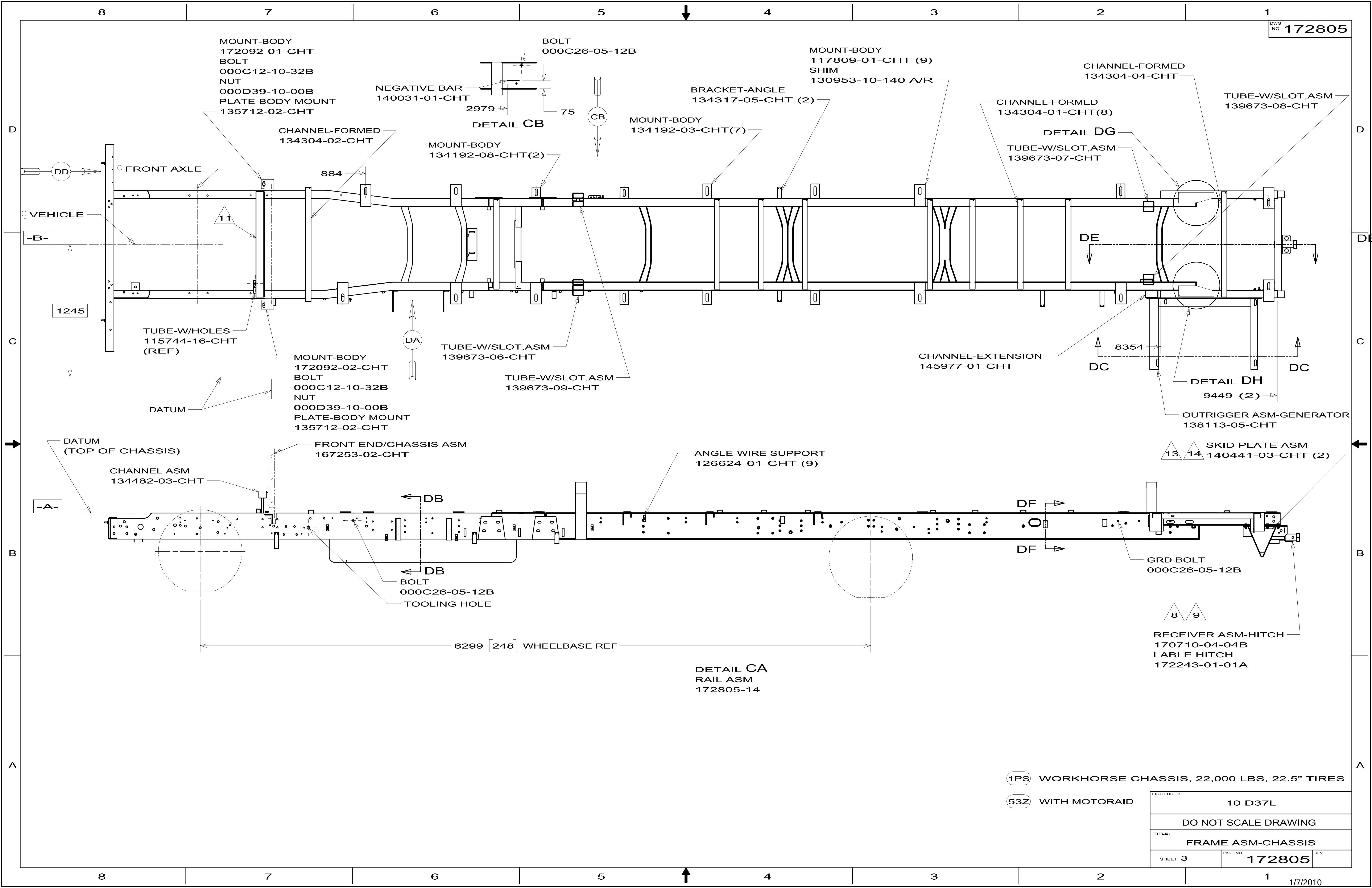
SECTION BE-BE



SECTION BF-BF

- 16L FORD CHASSIS 22,000 LB, 22.5 AL WHL
53Z WITH MOTORAID

FIRST USED		
10 D37L		
DO NOT SCALE DRAWING		
TITLE: FRAME ASM-CHASSIS		
SHEET 2	PART NO 172805	REV



1PS	WORKHORSE CHASSIS, 22,000 LBS, 22.5" TIRES	
53Z	WITH MOTORAID	FIRST USED 10 D37L

FIRST USED			
10 D37L			
DO NOT SCALE DRAWING			
TITLE: FRAME ASM-CHASSIS			
SHEET 3		PART NO 172805	REV

GIMP
113452-01-000
(990mm)

DATUM

TOP OF CHASSIS

STL-TUBE
130880-00-076(3)

BRACKET-ANGLE
134317-03-CHT

BRACKET-ANGLE
134317-05-CHT(2)
(53Z)

1781

1862

BRACKET- LP SUPPORT
139188-03-CHT(2)

SECTION DB-DB

SHIELD-HEAT,EXHAUST
134325-06-CHT

VIEW DA

TOP OF CHASSIS

DETAL DK

PLATE-CLIP
133095-01-CHT

33

BOLT
000C26-06-16B(2)

TOP OF CROSSMEMBER

SECTION DC-DC

DETAIL DG
SHOWN
DETAILDH
OPPOSITE

DETAIL DK

BOLT
000C26-05-12B

88

71

57

BRACKET-ANGLE
134317-03-CHT
(REAR)

BRACKET-ANGLE
134317-03-CHT
(FRONT)

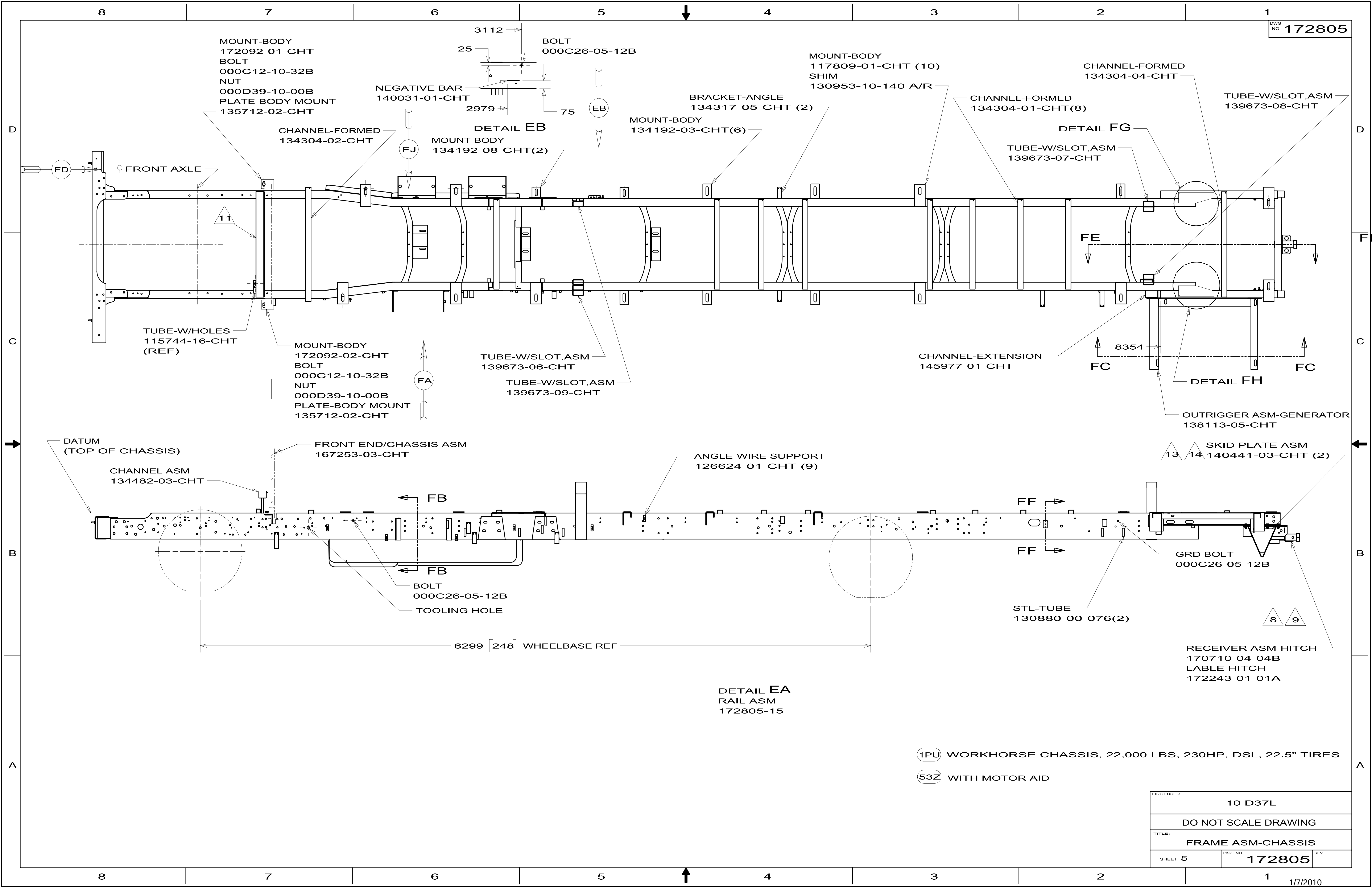
VIEW DD

SECTION DE-DE

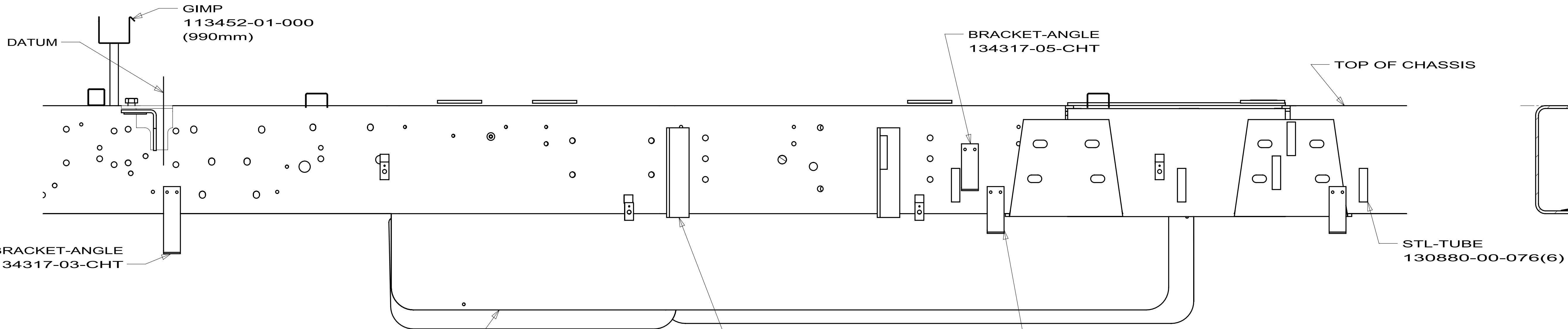
SECTION DF-DF

(1PS) WORKHORSE CHASSIS, 22,000 LBS, 22.5" TIRES
(53Z) WITH MOTORAID

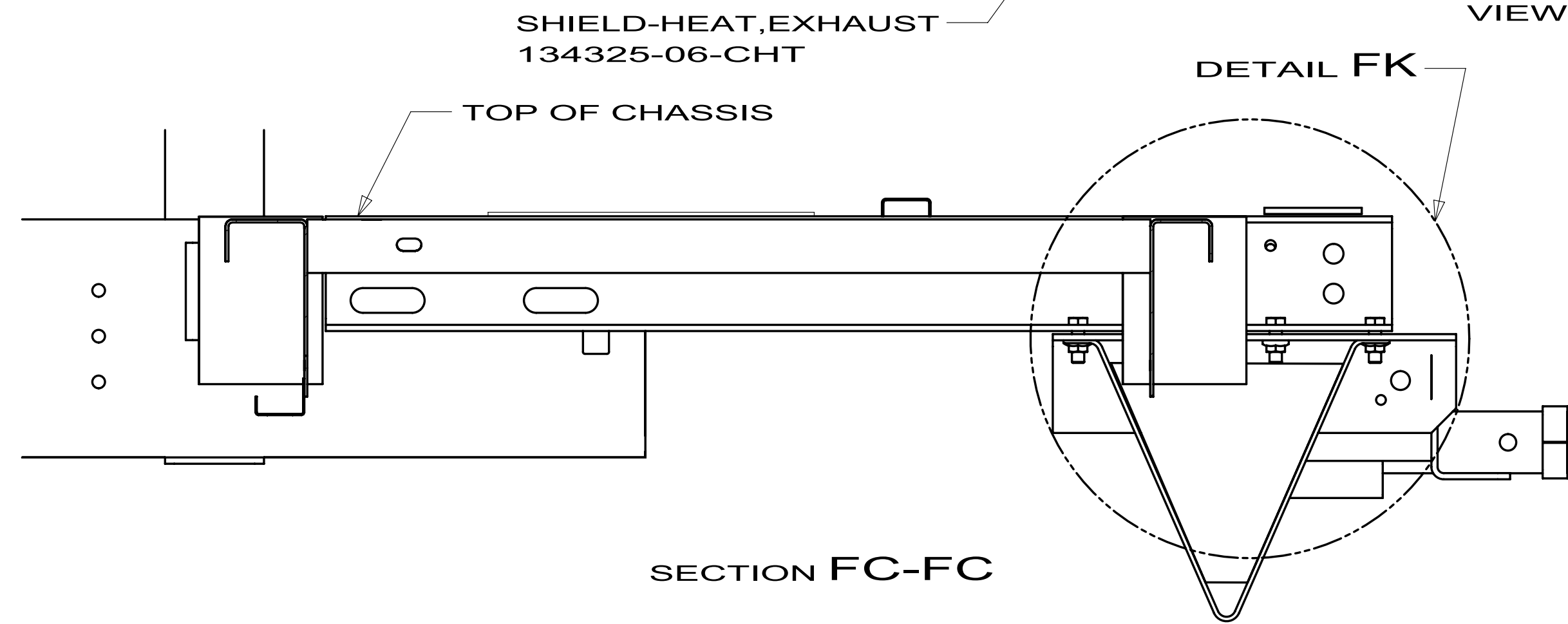
FIRST USED		
10 D37L		
DO NOT SCALE DRAWING		
TITLE:		
FRAME ASM-CHASSIS		
SHEET 4	PART NO	REV
	172805	



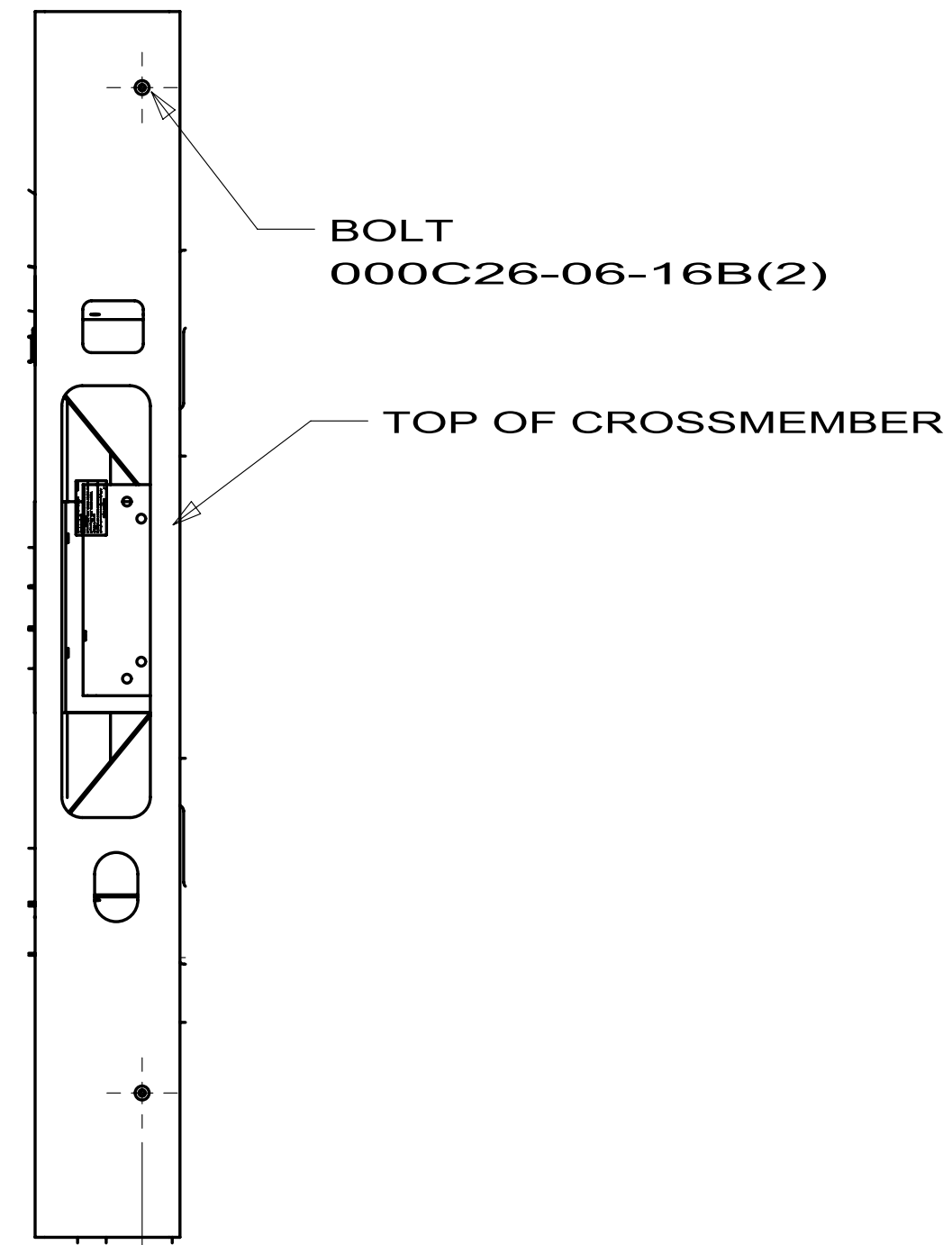
FIRST USED			
10 D37L			
DO NOT SCALE DRAWING			
TITLE:			
FRAME ASM-CHASSIS			
SHEET 5		PART NO 172805	REV



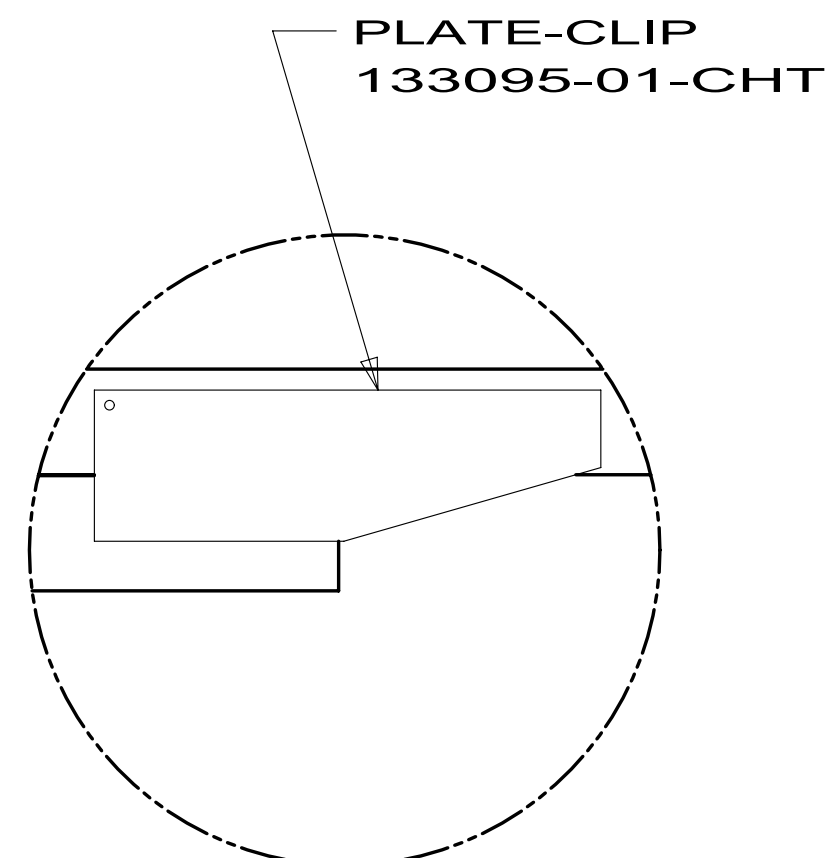
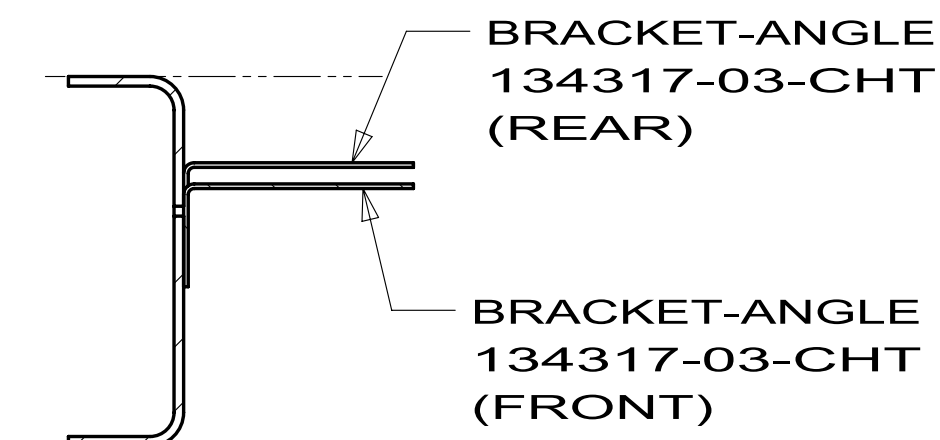
SECTION FB-FB



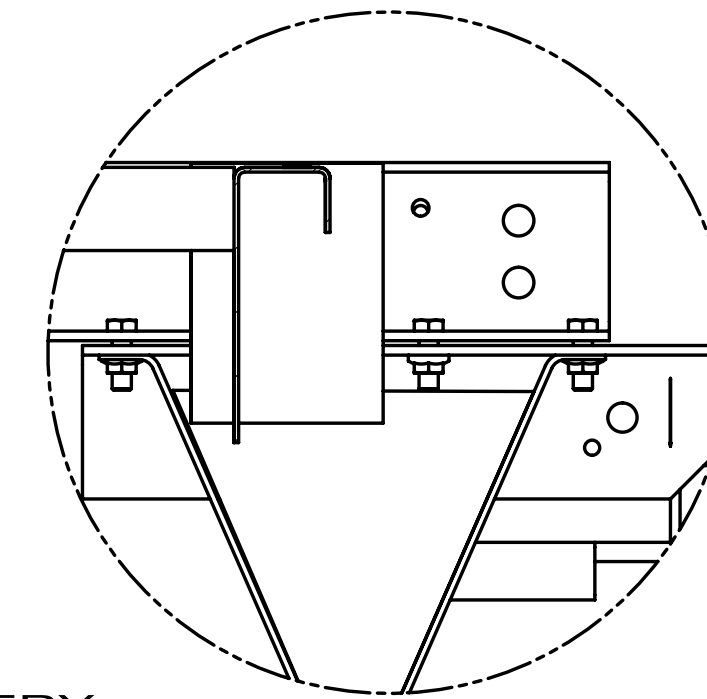
SECTION FC-FC



SECTION FF-FF

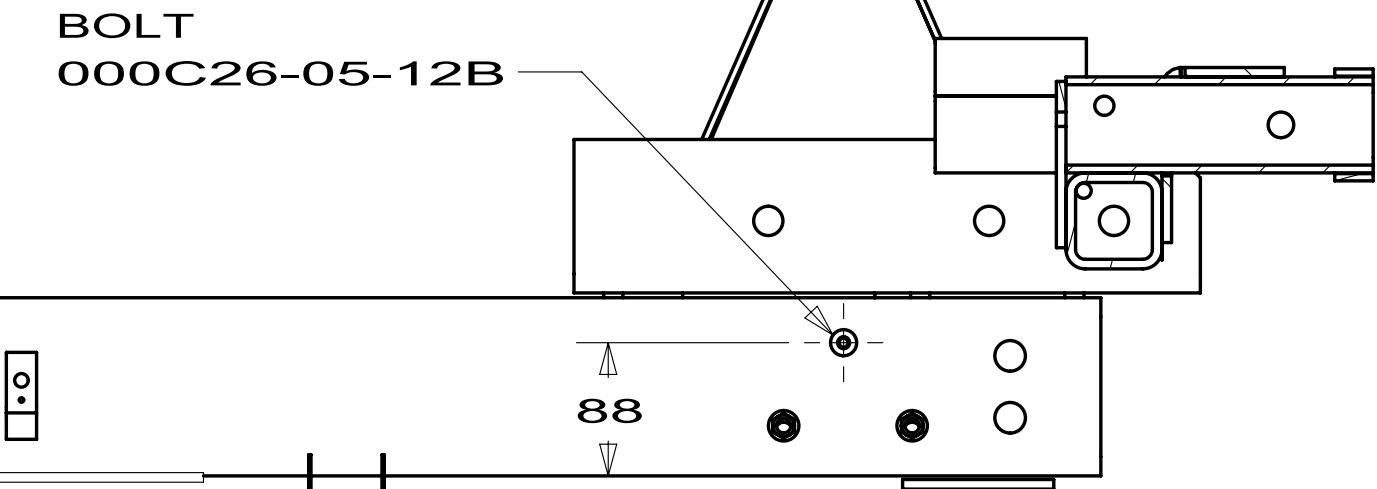


DETAIL FG SHOWN
DETAIL FH OPPOSITE

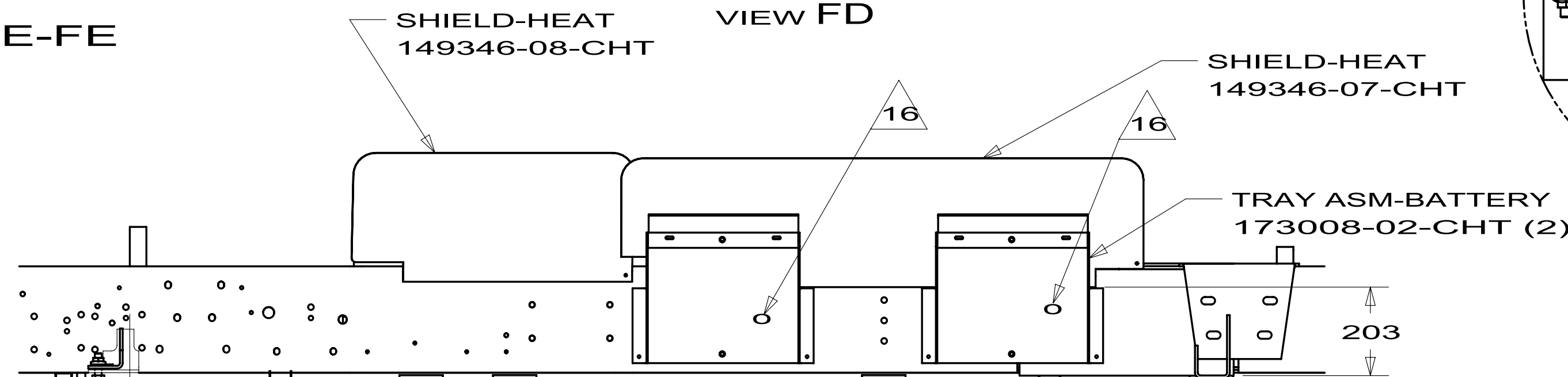


DETAIL FK

SECTION FE-FE



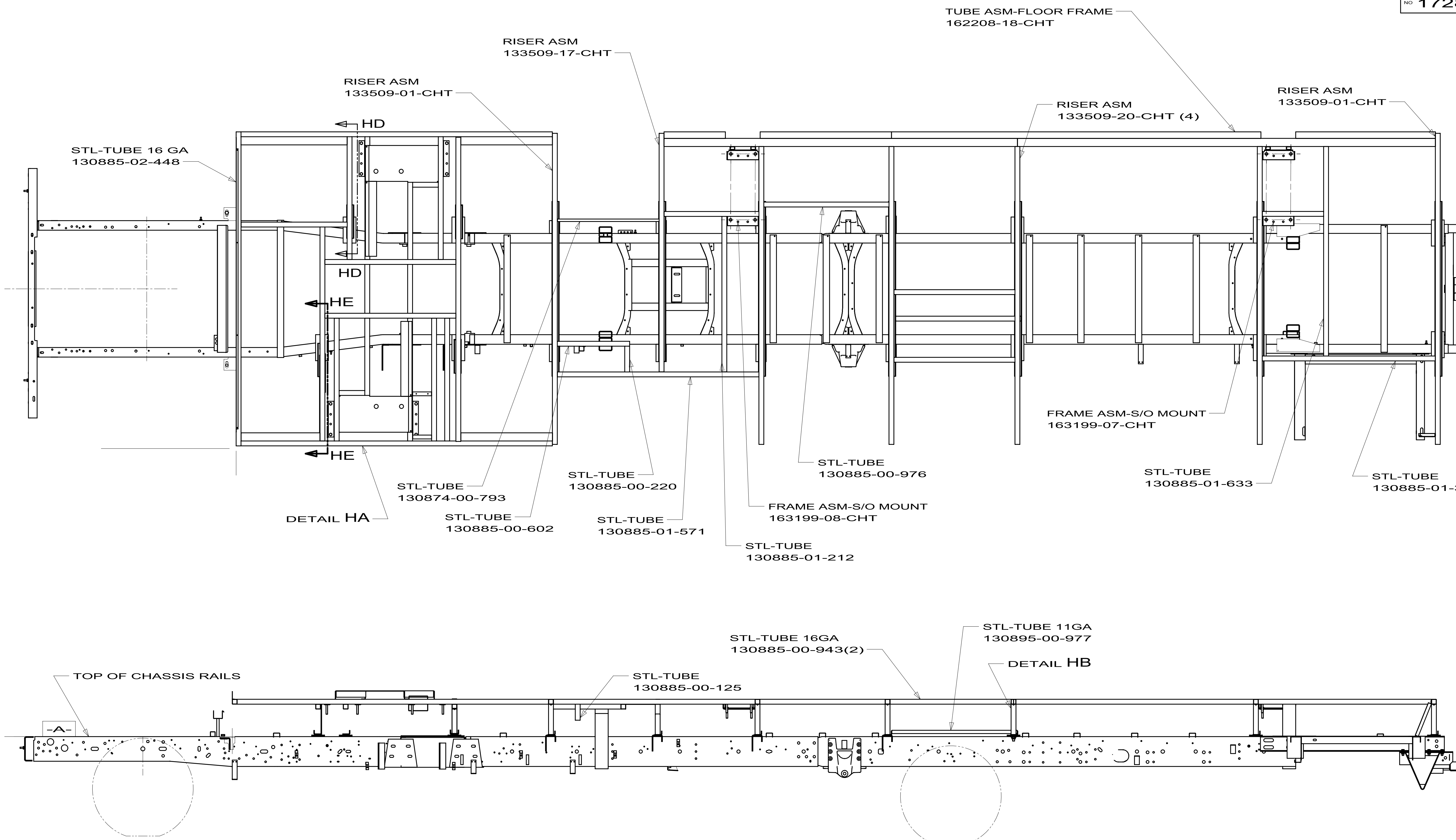
VIEW FD



VIEW FJ

53Z WITH MOTORAID
1PU WORKHORSE CHASSIS, 22,000 LBS,
230HP, DSL, 22.5" TIRES

FIRST USED		
10 D37L		
DO NOT SCALE DRAWING		
TITLE:		
FRAME ASM-CHASSIS		
SHEET 6	PART NO 172805	REV



FIRST USED			10 D37L
DO NOT SCALE DRAWING			
TITLE: FRAME ASM-CHASSIS			
SHEET 7	PART NO	172805	REV

2.0 A

STL-TUBE
130892-00-827

STL-TUBE
130885-00-827

STL-TUBE
130892-00-714

FRAME ASM-S/O MOUNT
163199-09-CHT (2)

STL-TUBE
130885-01-021(2)

STL-TUBE
130885-00-381(2)

RISER ASM
133509-29-CHT

STL-TUBE
130885-01-668

STL-TUBE
130892-00-614

STL-TUBE
130885-00-957(3)

STL-TUBE
130892-00-714

STL-TUBE
130885-02-427 (2)

HC

HC

75

DETAIL HA
FLOOR FRAME ASM
172805-13

PLATE-BODY MOUNT
135712-01-CHT (18 TOTAL)

NUT
000D39-10-00B (18 TOTAL)

U-CHANNEL ASM
117139-02-CHT(18 TOTAL)
SHIM
128310-01-CHT(18)

5

11

TOP OF
CHASSIS
RAIL

DETAIL HB
(7 PLACES)

BRACKET-SUPPORT
143491-07-CHT

6

BRACKET-SUPPORT
143491-06-CHT

SECTION HC-HC

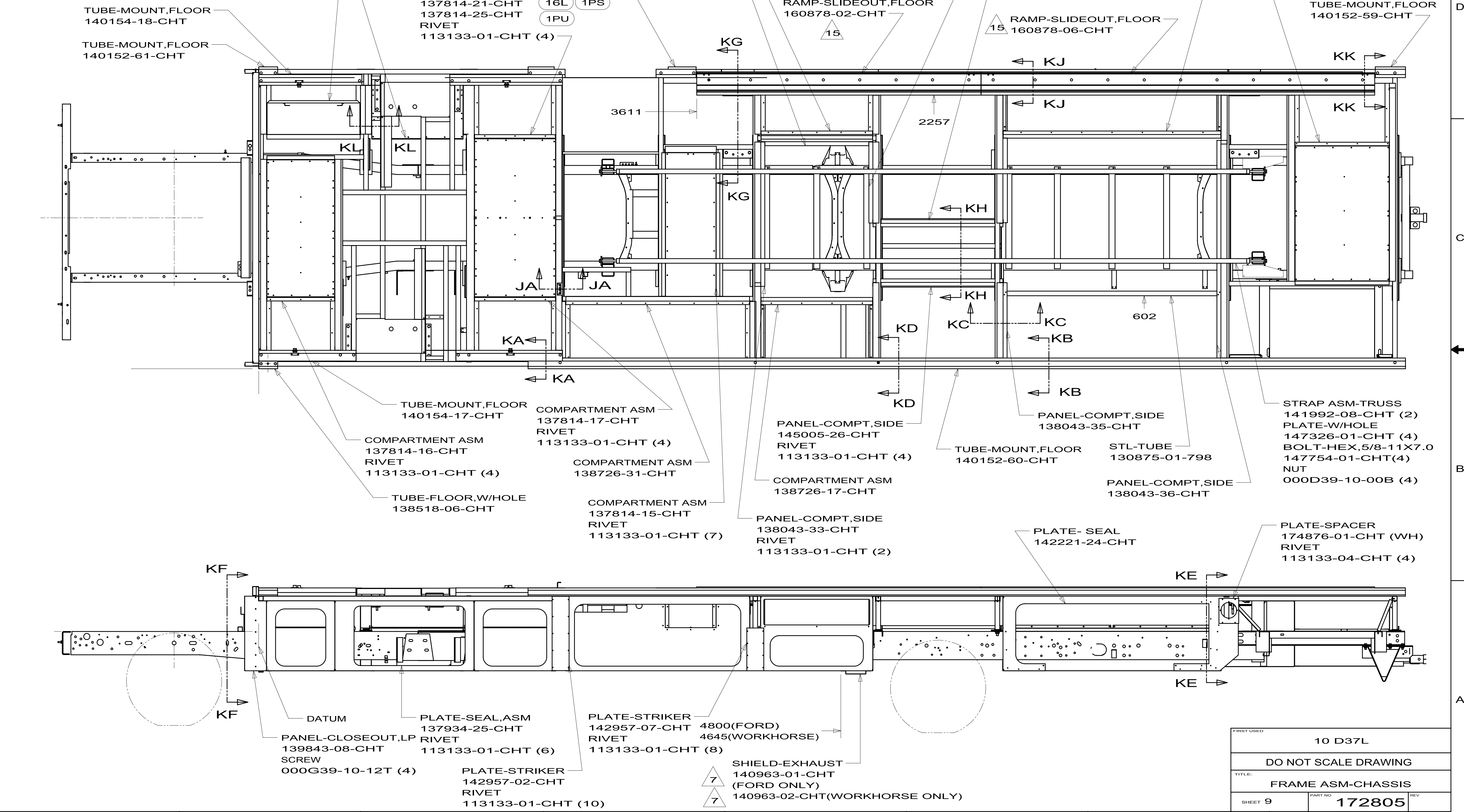
RISER ASM
133509-27-CHT(SHOWN)
133509-28-CHT (OPPOSITE)

38

SECTION HD-HD(SHOWN)
SECTION HE-HE(OPPOSITE)

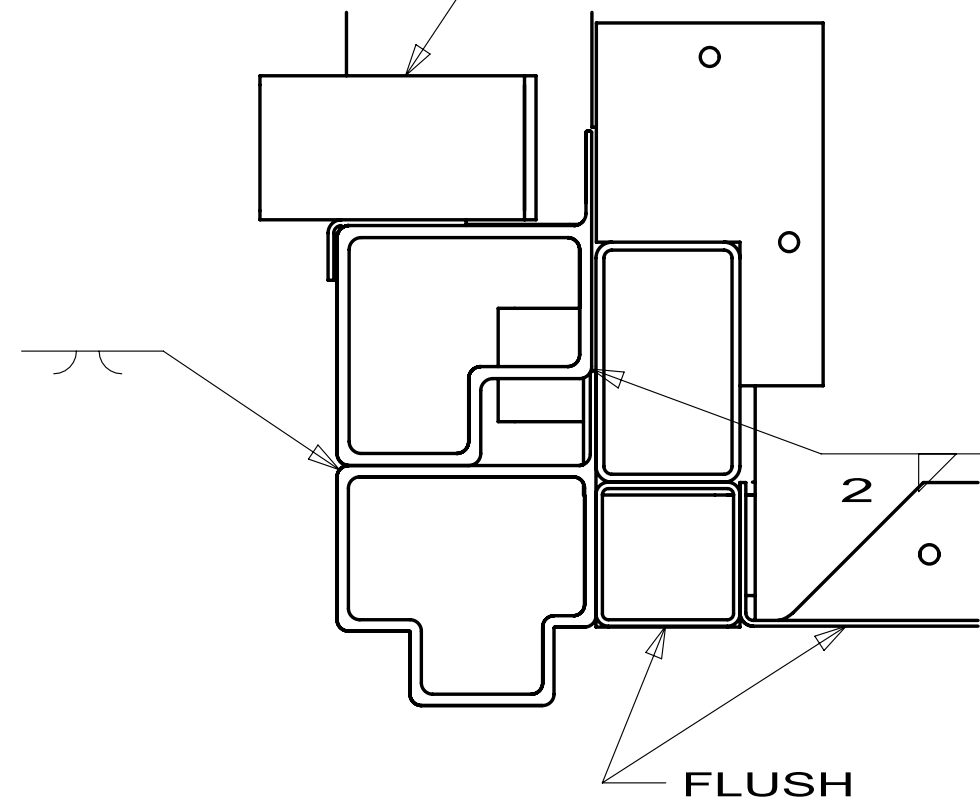
FIRST USED			10 D37L
DO NOT SCALE DRAWING			
TITLE: FRAME ASM-CHASSIS			
SHEET 8	PART NO	172805	REV

SECTION JA-JA



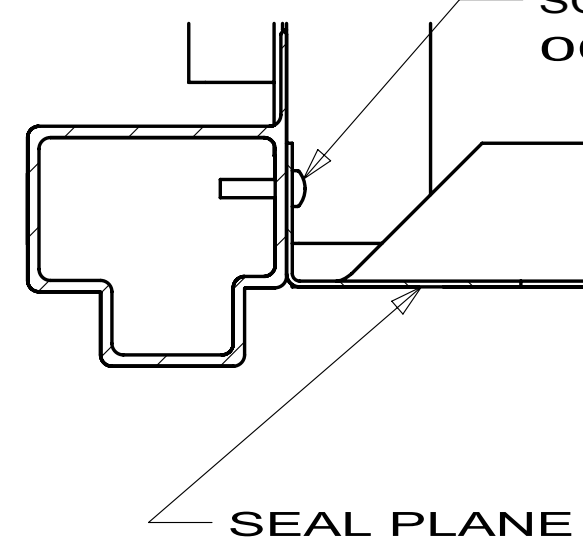
FIRST USED				10 D37L					
DO NOT SCALE DRAWING									
TITLE:									
FRAME ASM-CHASSIS									
SHEET 9				PART NO		172805		REV	

ADJUSTER ASM-SLIDE
136780-03-CHT (4)
SCREW
000G39-10-12T (16)



SECTION KA-KA

SCREW
000G39-10-12T (59)

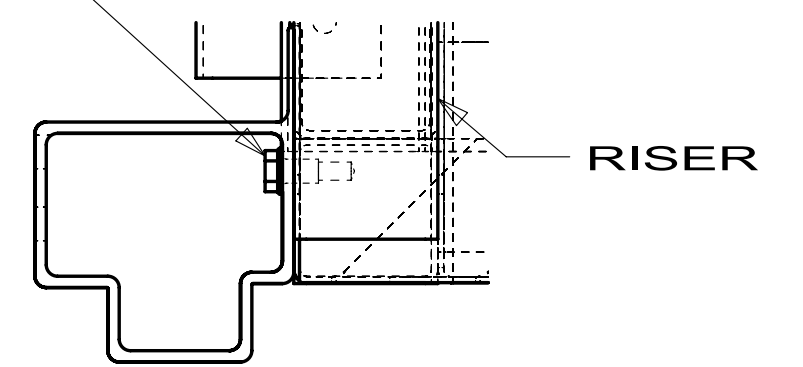


SECTION KB-KB

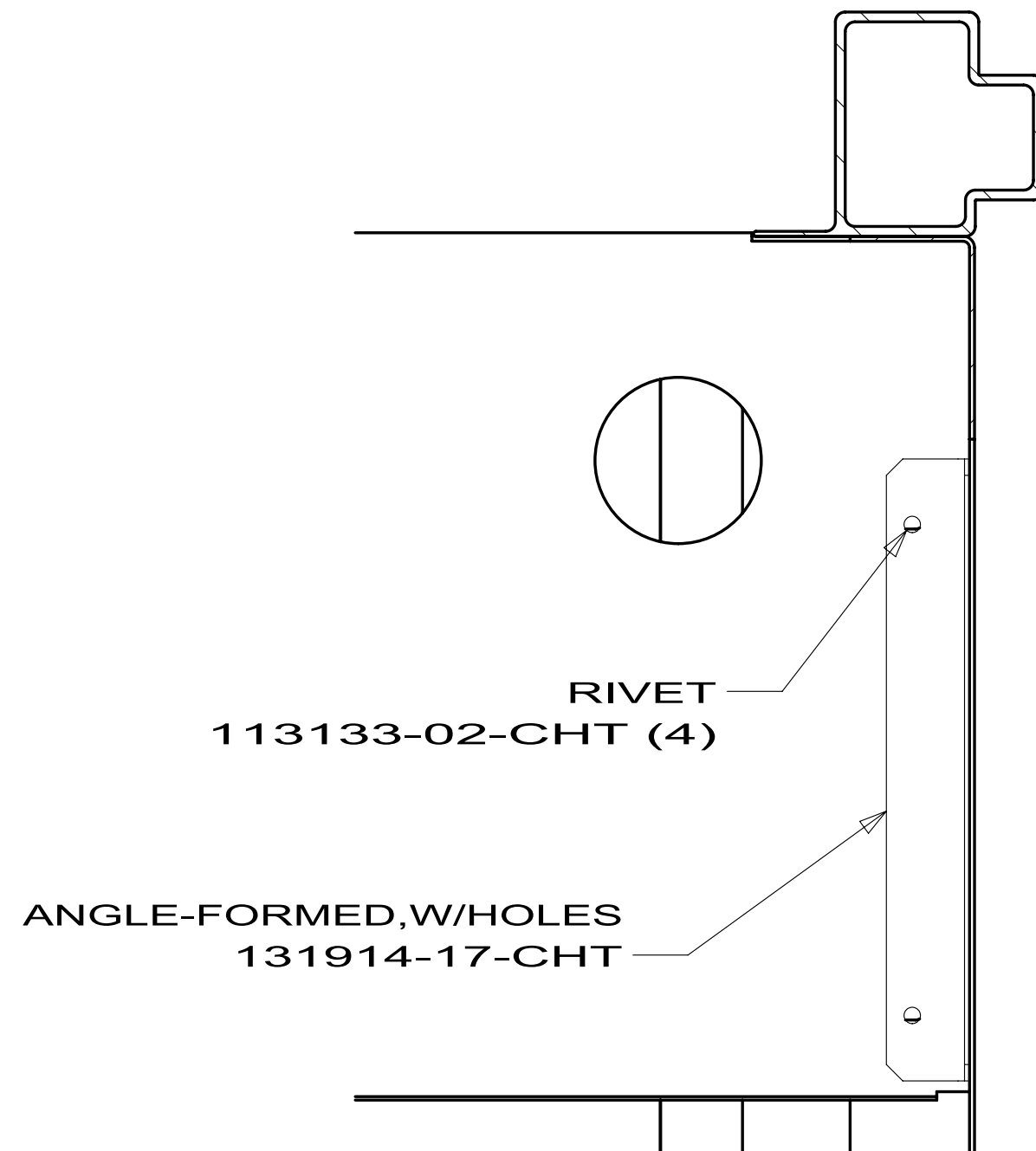
RISER ASM COMPARTMENT ASM

SECTION KC-KC

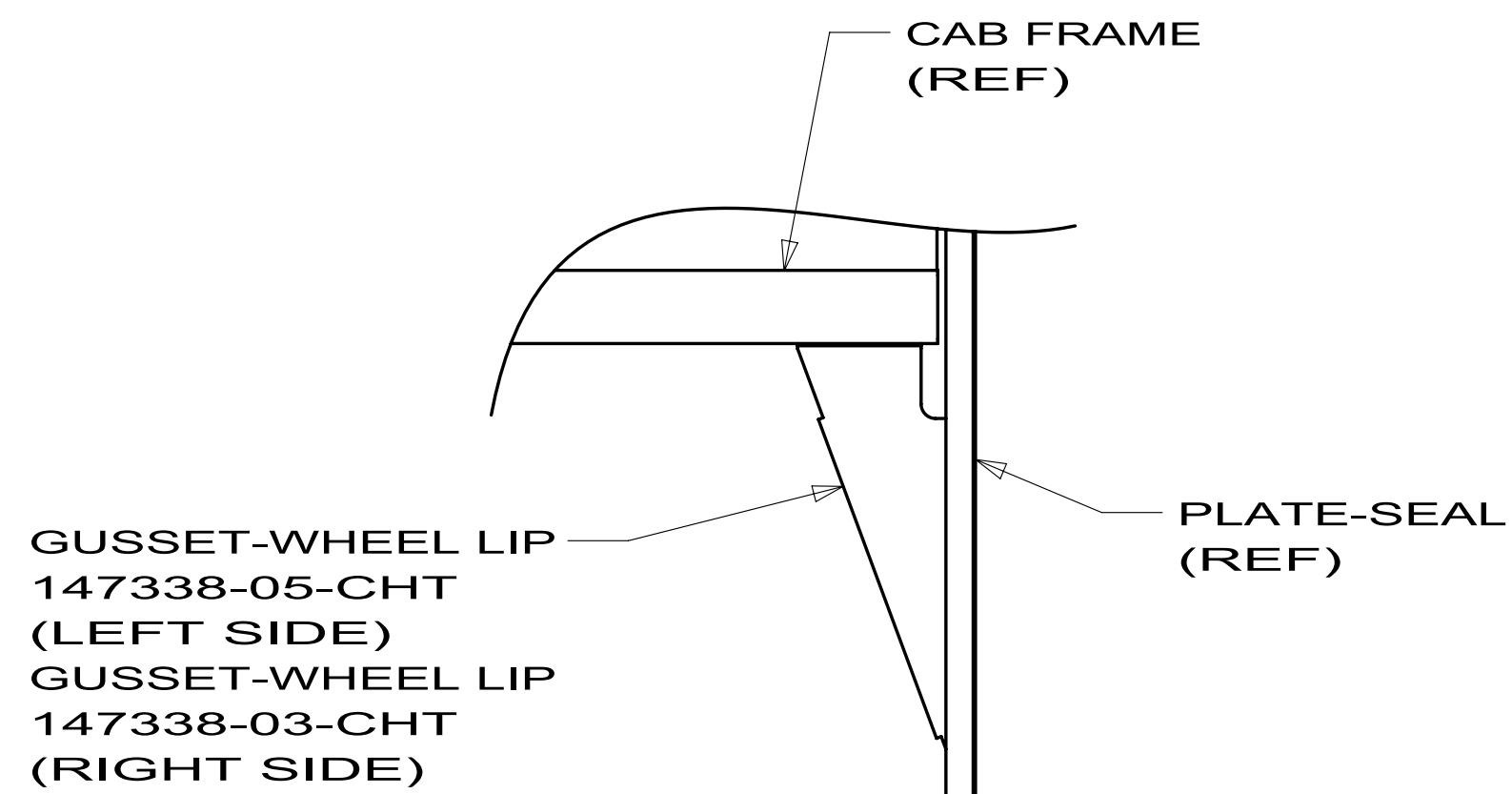
SCREW
000G42-04-12B (45)



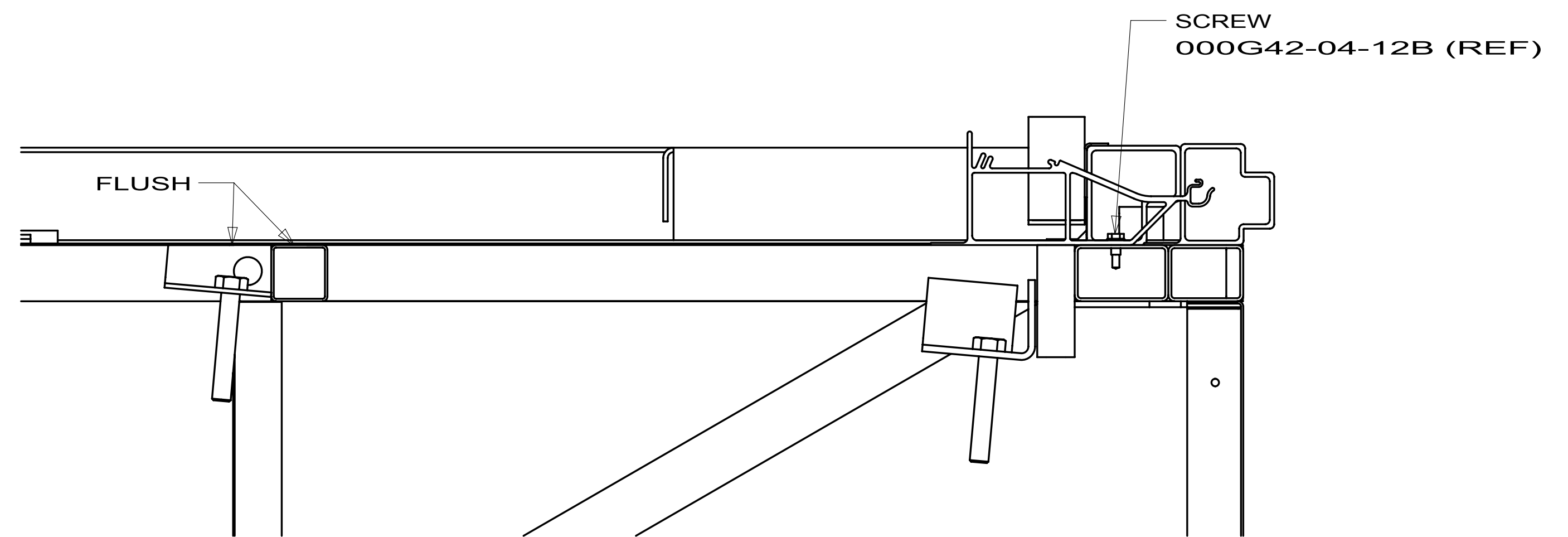
SECTION KD-KD



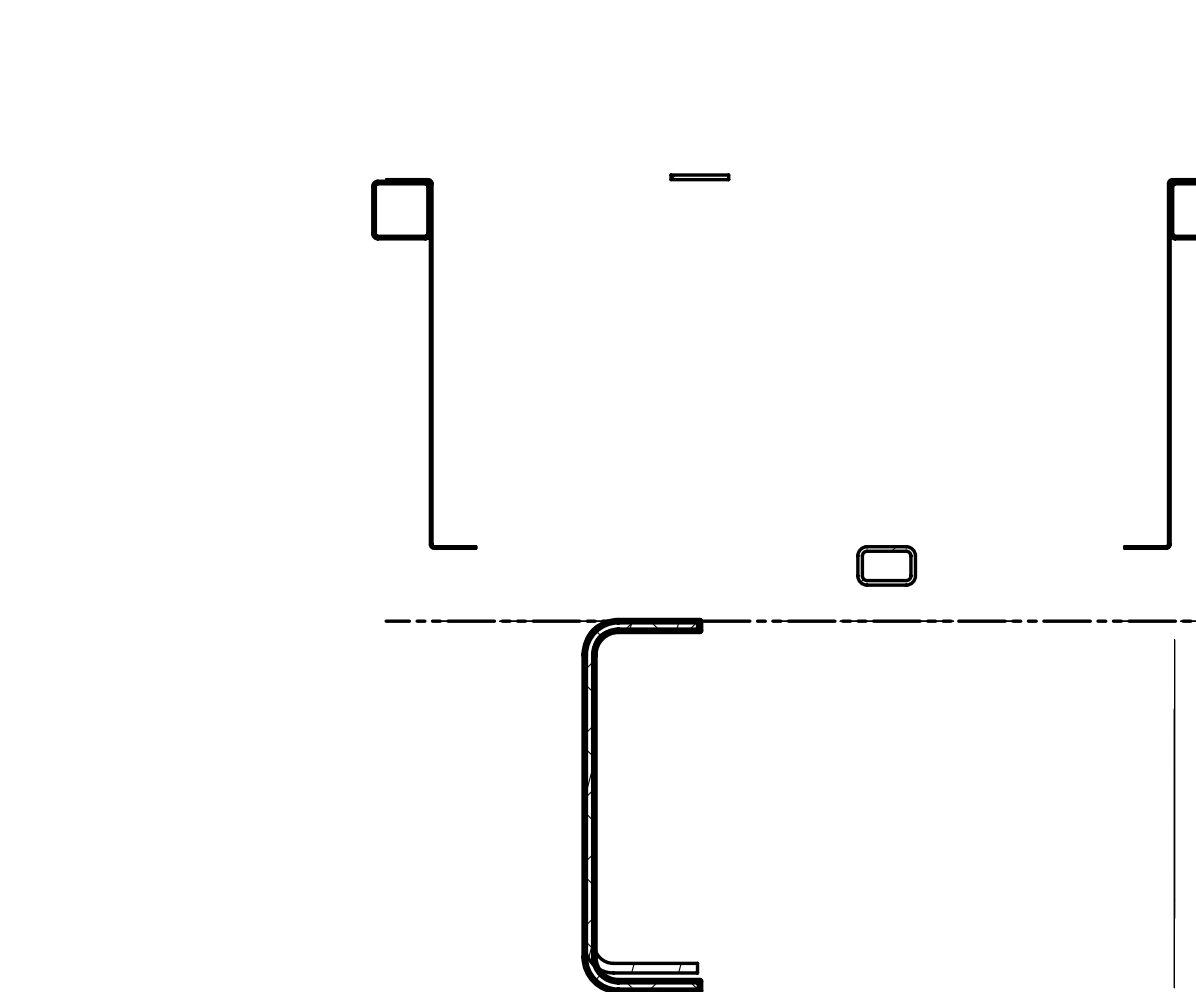
SECTION KE-KE



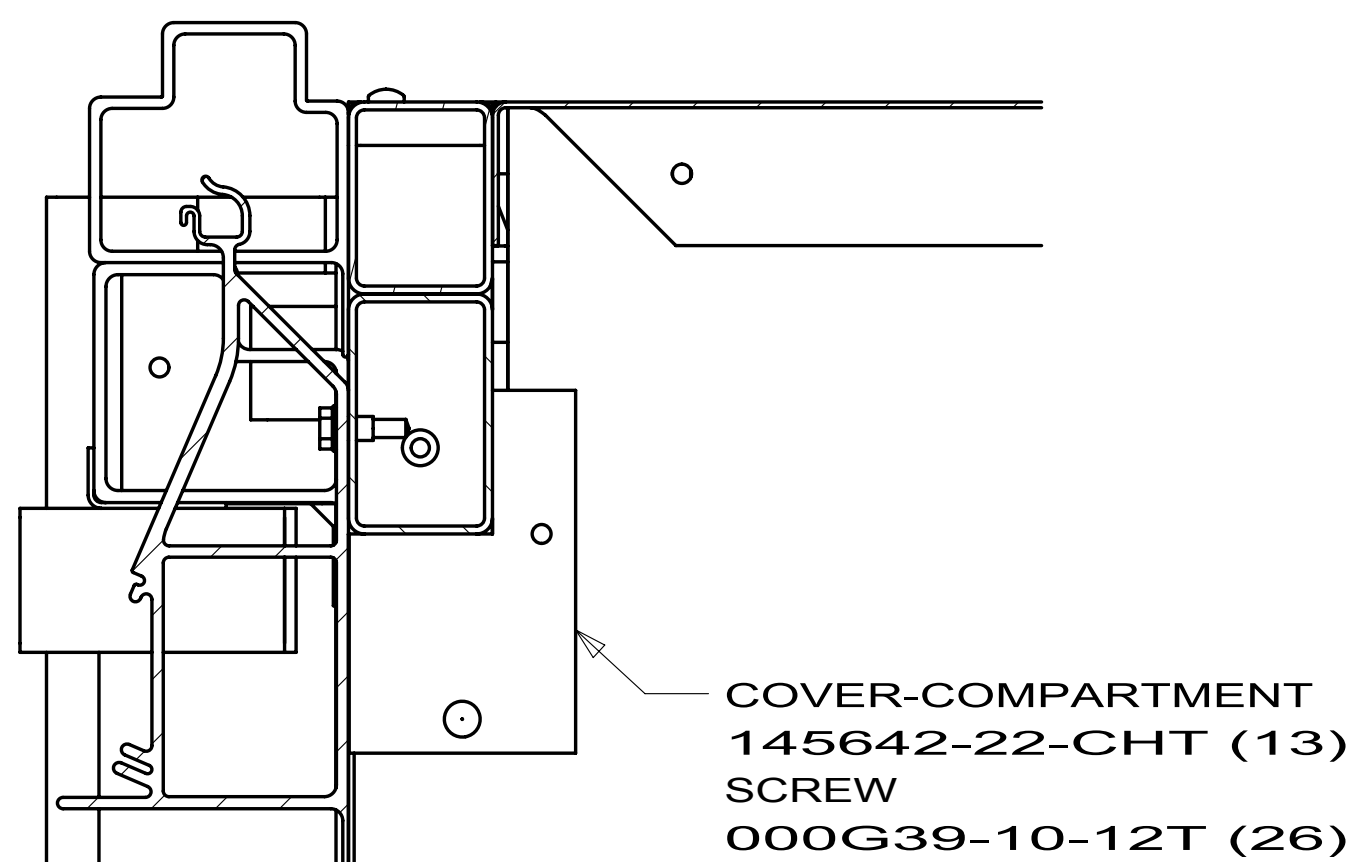
SECTION KF-KF
(LEFT SIDE SHOWN)



SECTION KG-KG

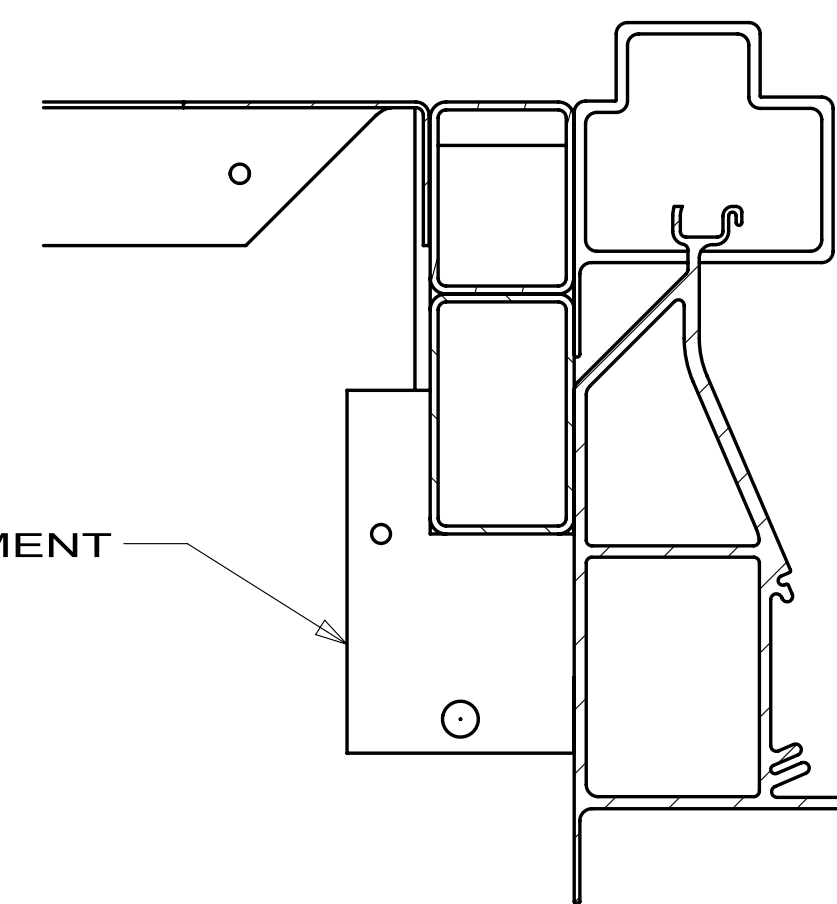


SECTION KH-KH

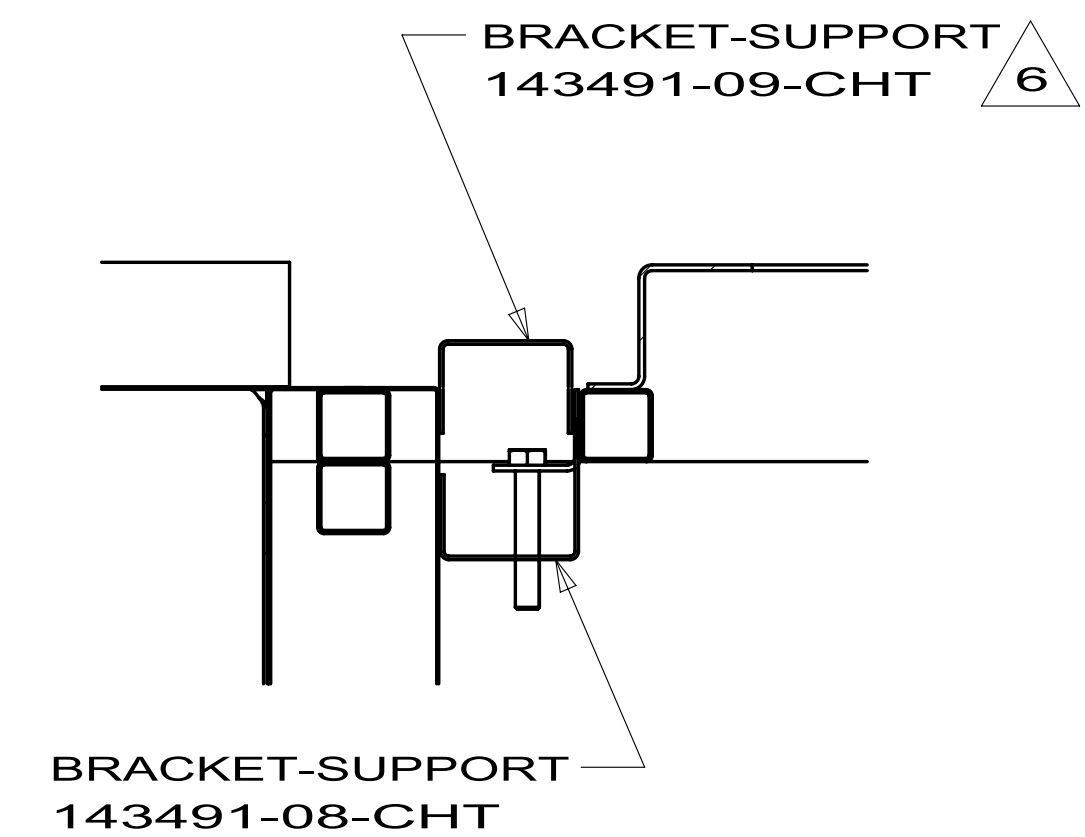


SECTION KJ-KJ

COVER-COMPARTMENT
145642-23-CHT
SCREW
000G39-10-12T



SECTION KK-KK



SECTION KL-KL

FIRST USED		
10 D37L		
DO NOT SCALE DRAWING		
TITLE:		
FRAME ASM-CHASSIS		
SHEET 10	PART NO	REV
	172805	

NC NC

BOX ASM-ENTRANCE,STEP
162351-01-CHT

DETAIL NB

DETAIL NG

NA

NA

DATUM

DETAIL NH

MC

MC

MA

MF

MA

MF

FIRST USED			10 D37L
DO NOT SCALE DRAWING			
TITLE:			FRAME ASM-CHASSIS
SHEET 11	PART NO	172805	REV

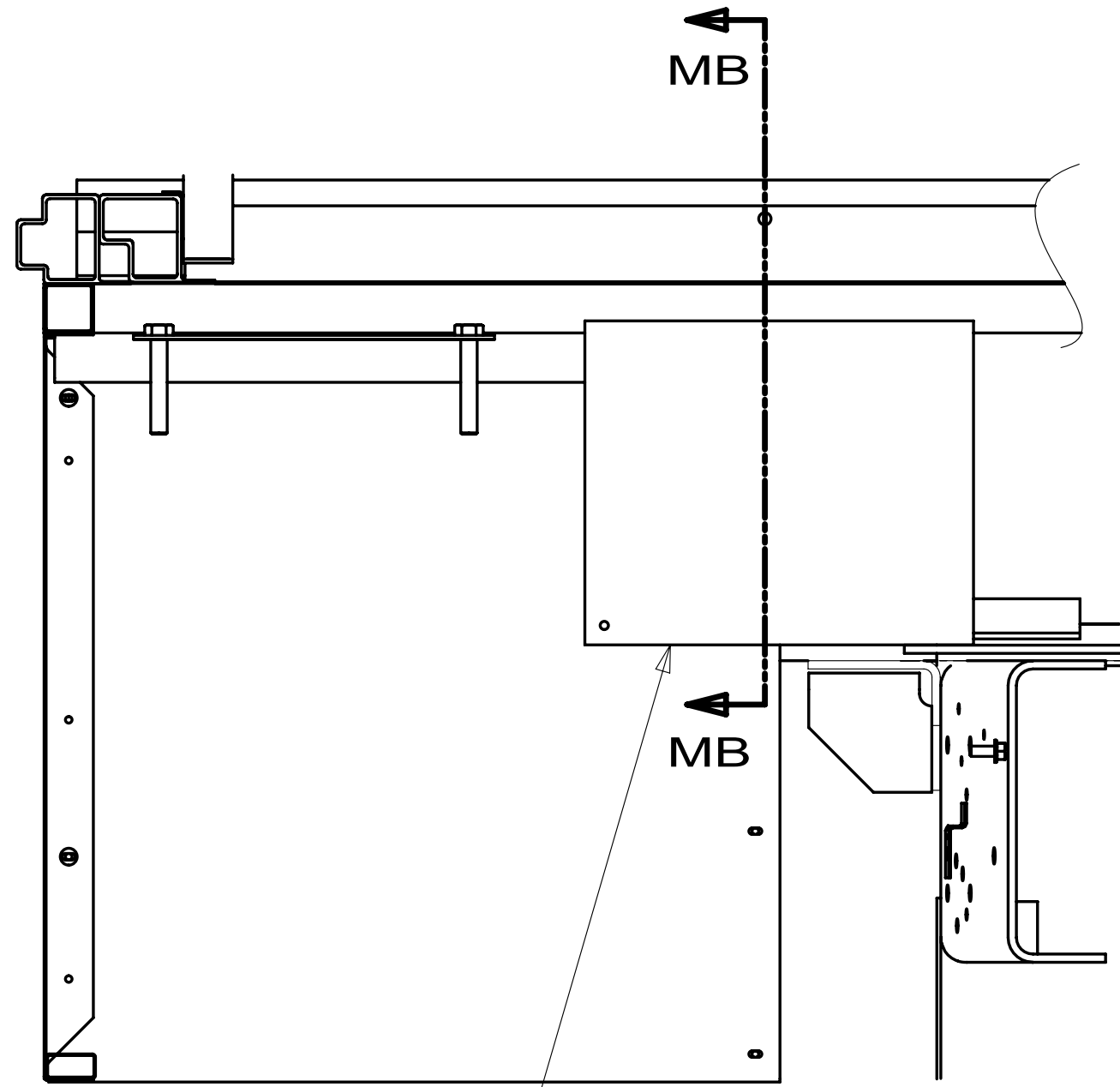
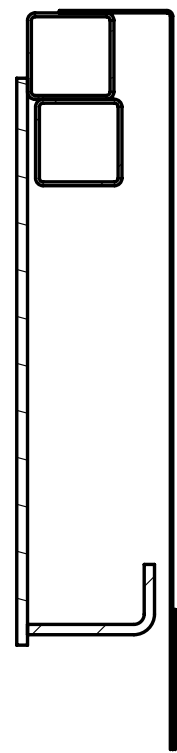


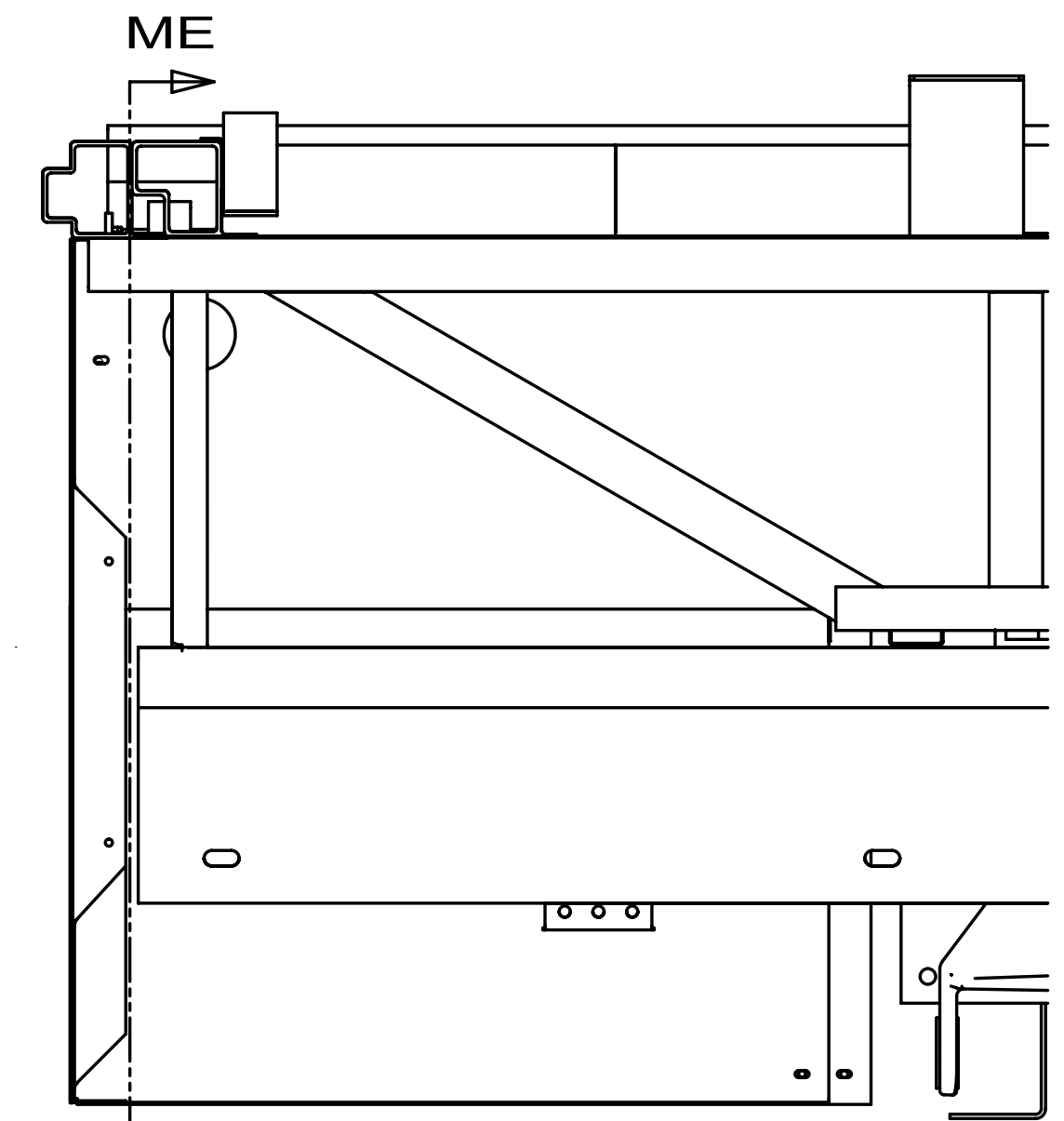
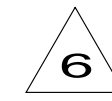
PLATE-W/HOLES
124430-58-CHT

SECTION MA-MA

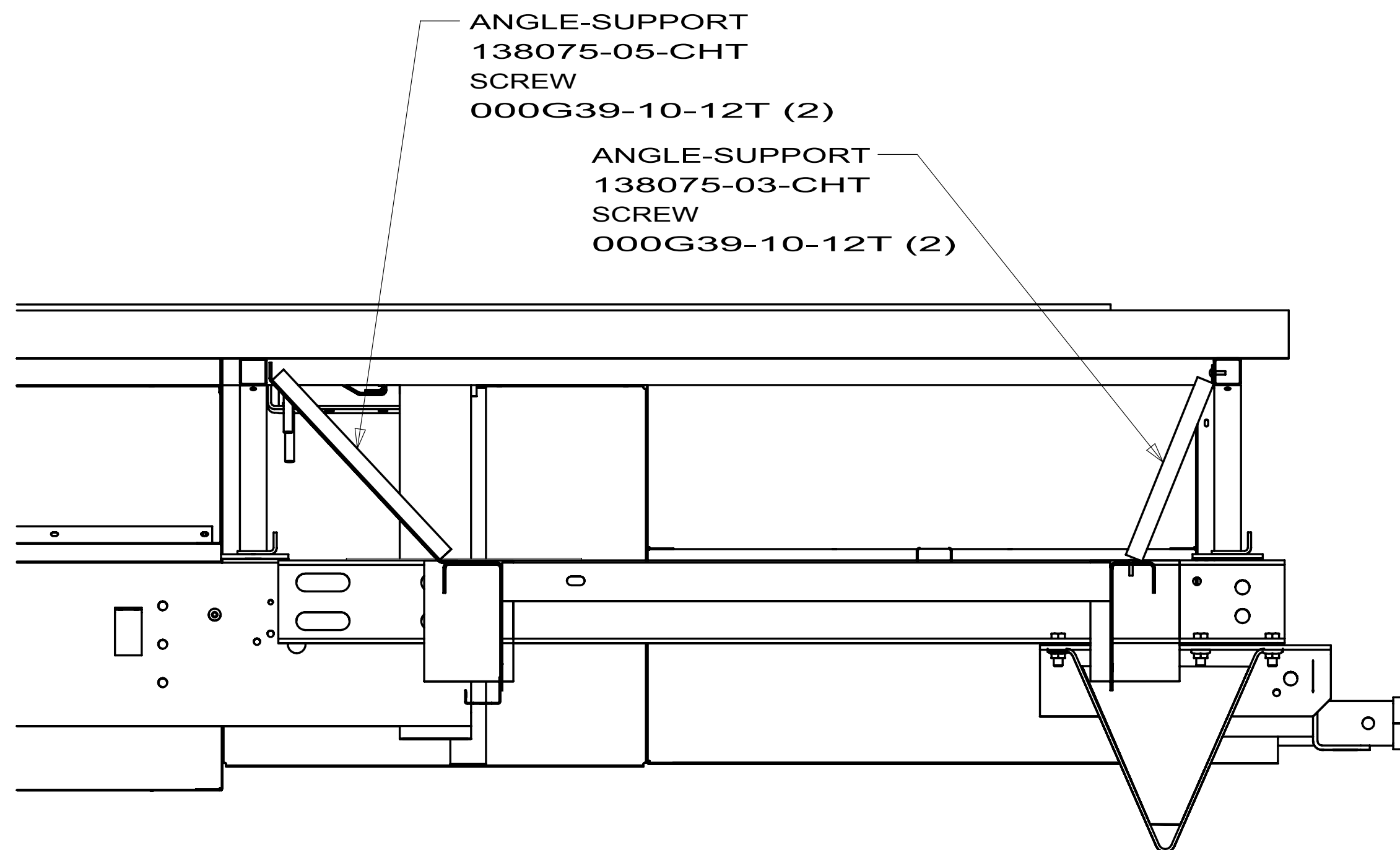


SECTION MB-MB

ANGLE-CLOSEOUT
159353-01-CHT
SCREW
000G39-10-12T (11)



VIEW MC-MC

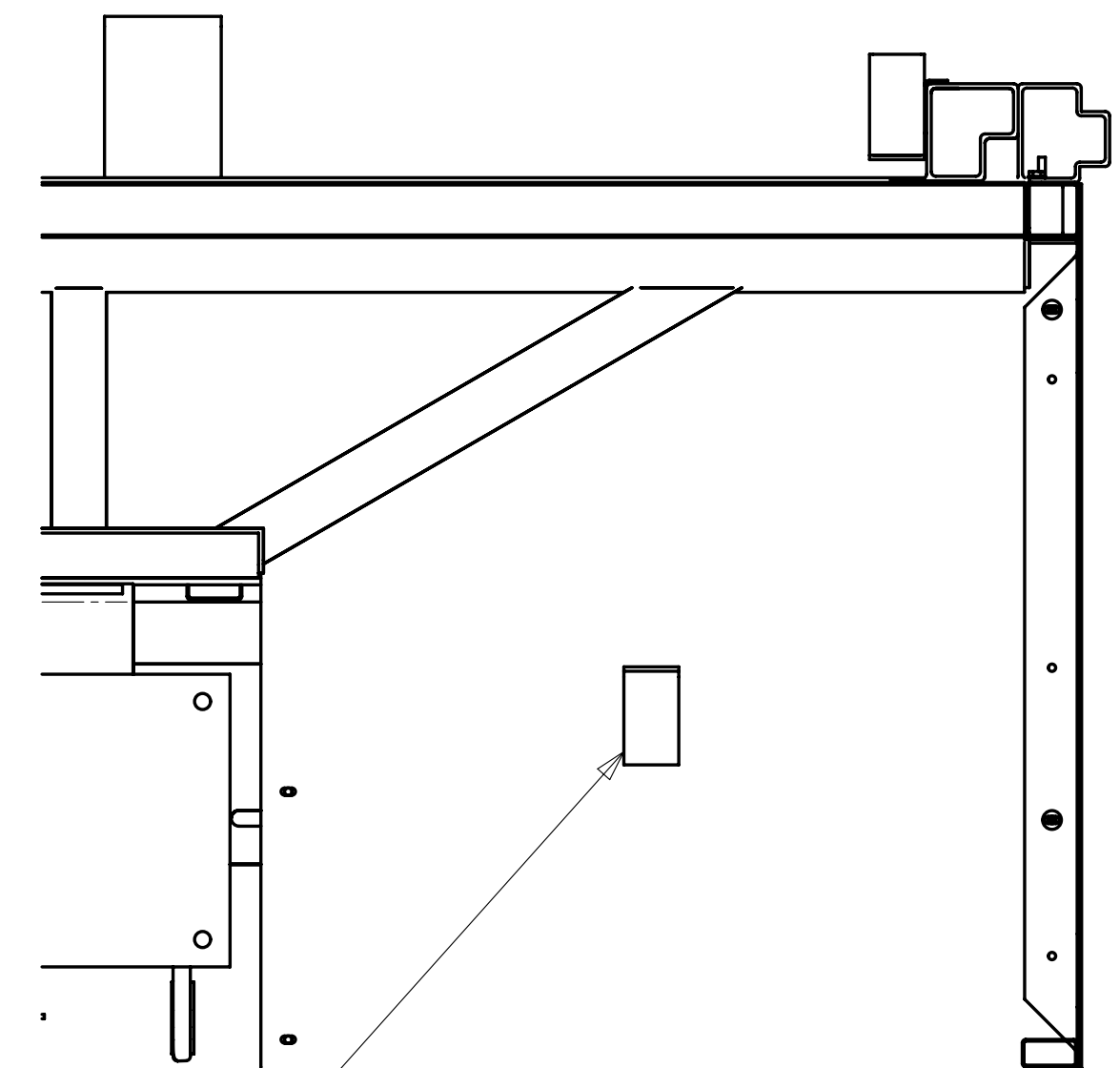


ANGLE-SUPPORT
138075-05-CHT
SCREW
000G39-10-12T (2)

ANGLE-SUPPORT
138075-03-CHT
SCREW
000G39-10-12T (2)

SECTION ME-ME

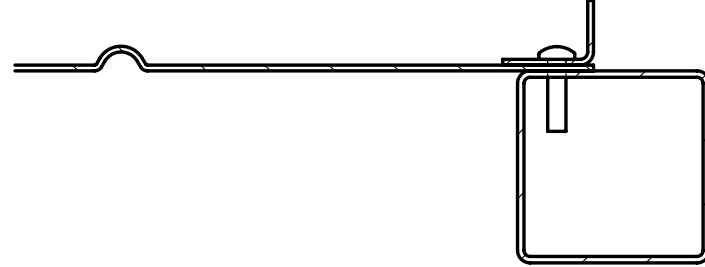
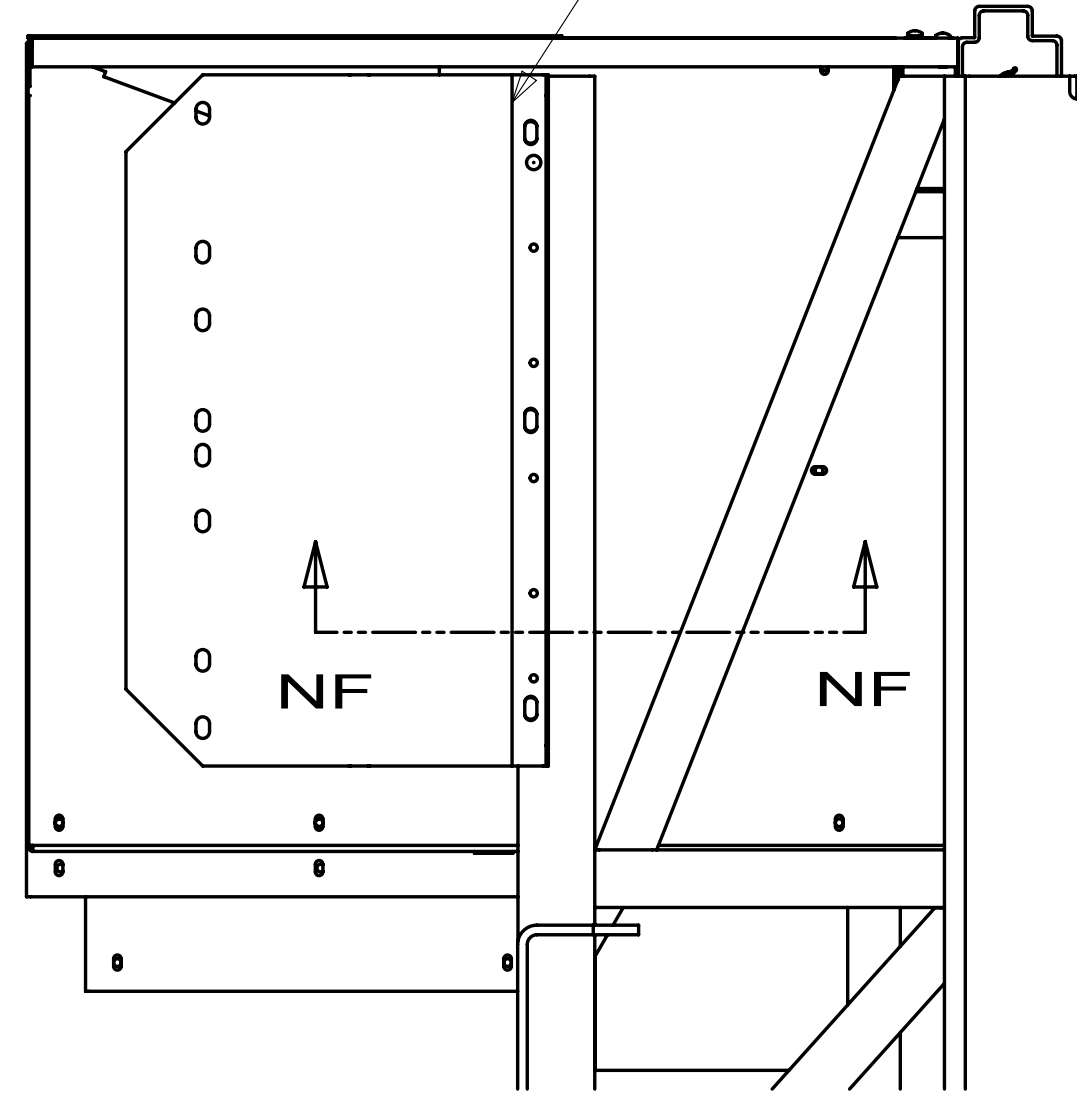
BRACKET-ANGLE
134317-05-CHT



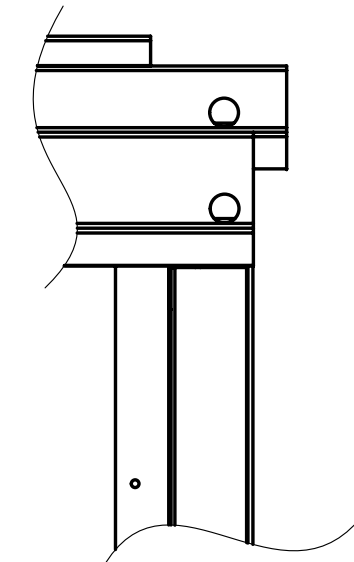
SECTION MF-MF

FIRST USED			10 D37L
DO NOT SCALE DRAWING			
TITLE: FRAME ASM-CHASSIS			
SHEET 12	PART NO	172805	REV

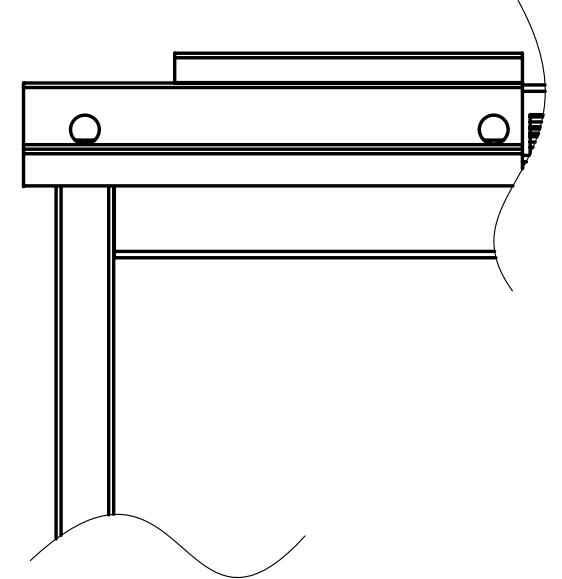
GUARD-ROCK
136391-01-CHT
SCREW
000G39-10-12T (6)



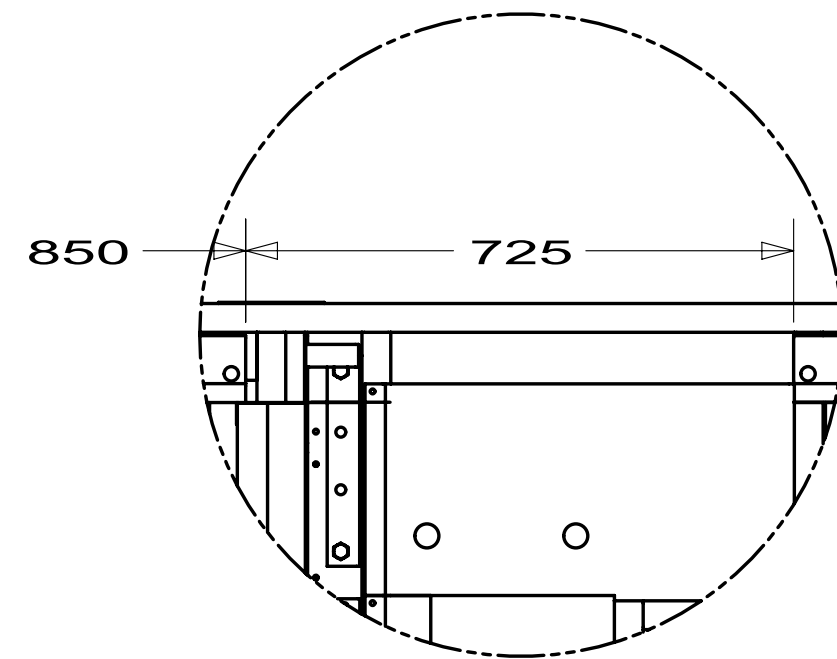
SECTION NF-NF



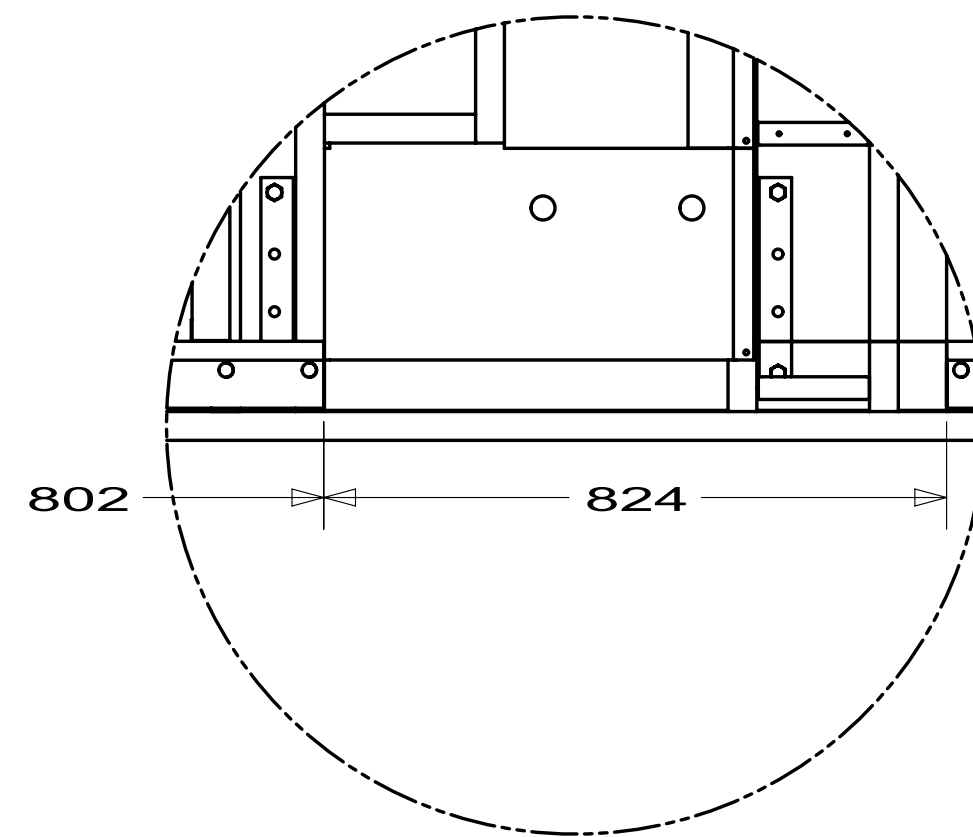
DETAIL NB



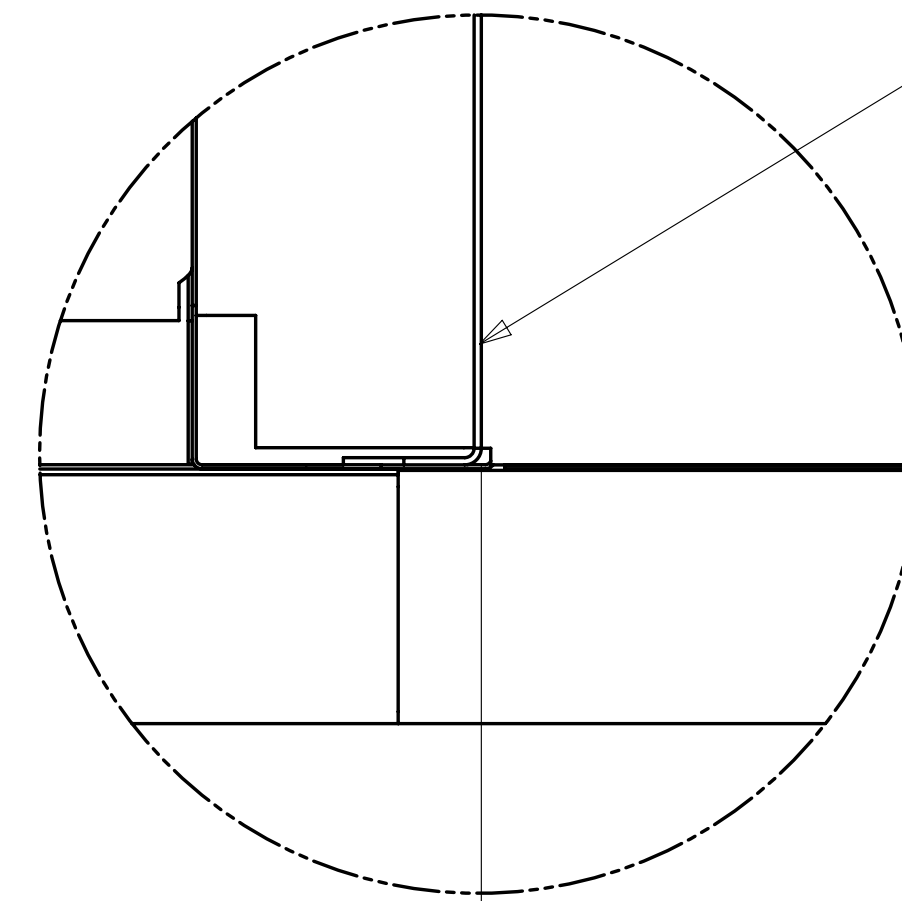
VIEW NA-NA
(2 PLACES)



DETAIL NG



DETAIL NH

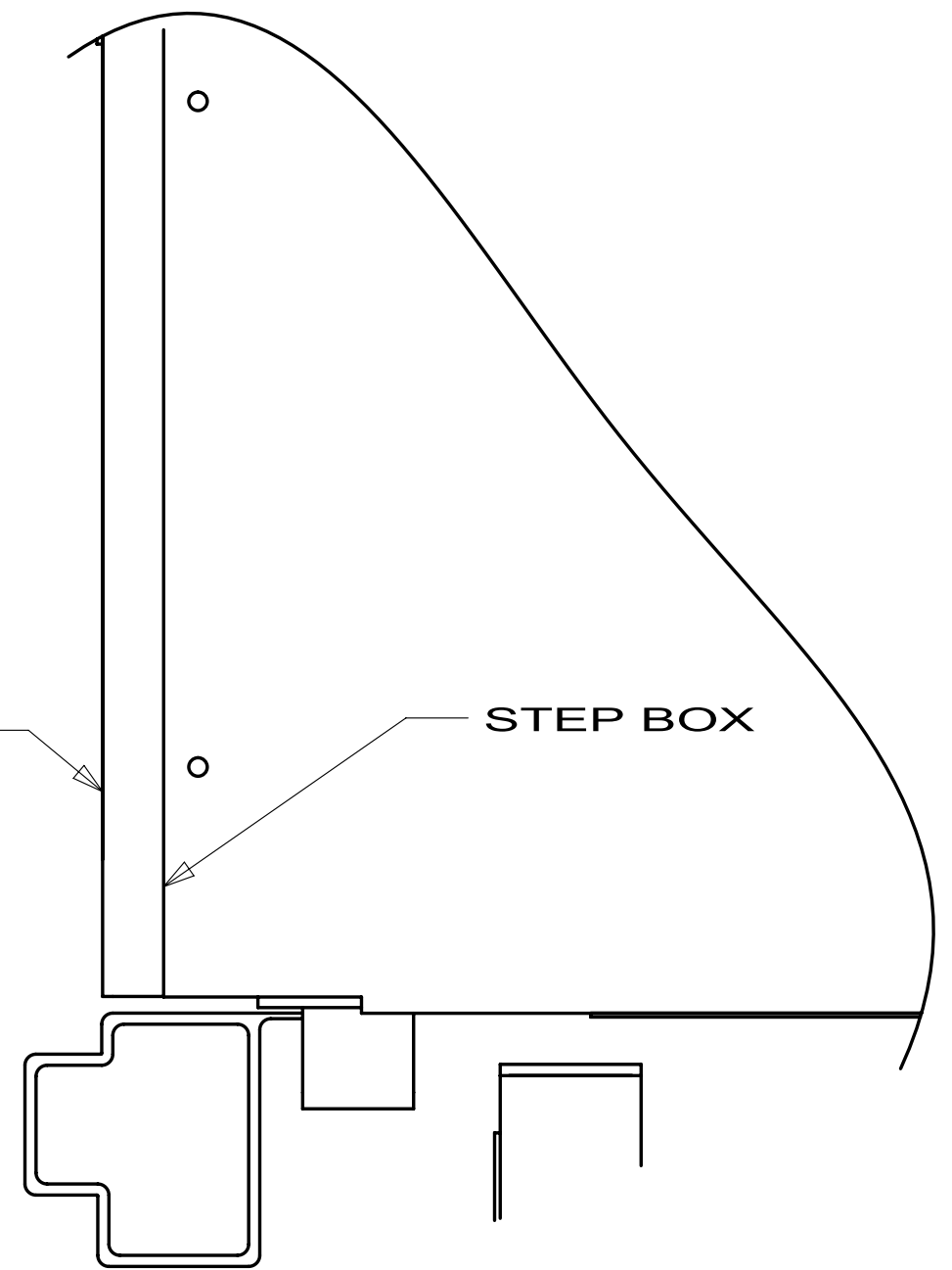


DETAIL ND

INSIDE FACE
OF STEP BOX

CHANNEL/
SEAL PLANE

STEP BOX



SECTION NE-NE

PANEL-CLOSEOUT
139843-07-CHT
SCREW
000G39-10-12T (4)

PLATE-STRIKER
142957-07-CHT (2)
SCREW
000G39-10-12T (16)

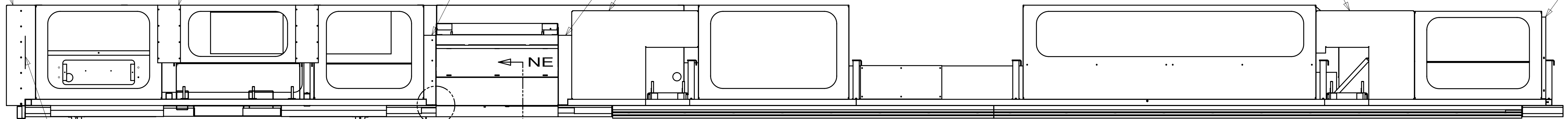
CHANNEL-FILLER
139389-05-CHT

CHANNEL-FILLER
139389-06-CHT

PLATE-SEAL
136539-24-CHT

PLATE ASM-SEAL
136539-27-CHT

ANGLE
138613-12-CHT



VIEW NC-NC

FIRST USED			10 D37L
DO NOT SCALE DRAWING			
TITLE:			
FRAME ASM-CHASSIS			
SHEET 13	PART NO	172805	REV

8		7		6		5		4		3		2		1													
DWG NO		FRONT END ASM														RELEASE		REV A		DATE		DWG NO 167251					
167251-01		NA														REV		ZONE		REVISION RECORD		DATE		DFTR-ORIG			
167251-02		173041-01																									
D														D													
C														C													
B														B													
A														A													

12. TORQUE TO: 191-209 Nm (143-157 FT LB).

11. ADD OR REMOVE SHIMS AS NEEDED TO LEVEL FRONT END ASM.

10. CUT U-CHANNEL SO NEW PART CAN BE WELDED TOP AND BOTTOM.

9. USE AS NEEDED AFTER PLATFORM ADJUSTMENT.

8. APPLY PUTTY SEALER, 111940-02-000 TO ANY SEAMS OR HOLES THAT NEED A FLEXIBLE DUST AND AIR SEAL.

7. ALIGN FRONT OF PANEL ASM WITH RADIATOR COVER AND REAR WITH ENGINE COVER SEAL EXTRUSION.

6. FOR BRAKE INSTL-EMERGENCY SEE DRAWING NUMBER 108080-01-000.

5. REMOVE RESERVOIR BRACKET (4 SCREWS) AND FASTEN TO WINNEBAGO BRACKET.

4. ADJUST HEIGHT OF SUPPORT TO LOCATE CAB PROPERLY.

3. WELD PANEL IN PLACE AND SEAL BEFORE CAB IS INSTALLED.

2. SEAL ALL JOINTS BETWEEN PANELS AND CAB.

1. REMOVE ALL BURRS AND SHARP EDGES.

SEE CHART FOR COLOR VARIATIONS OF THIS PART

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DFTR

CHRR

P.E.

M.E.

DSNR

ORIG. DATE

ALL DIMENSIONS ARE IN MILLIMETERS

FIRST USED

09 D-SERIES,FD

UNSPECIFIED TOLERANCES ARE:

WHOLE DIM (X) ± 3

ONE-PLACE (X.X) ± 1.5

TWO-PLACE (X.XX) ± 0.50

ANGLE ± 1°

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

REFER TO ES0018 FOR FASTENER TIGHTENING GUIDELINES

TITLE: FRONT END/CHASSIS ASM

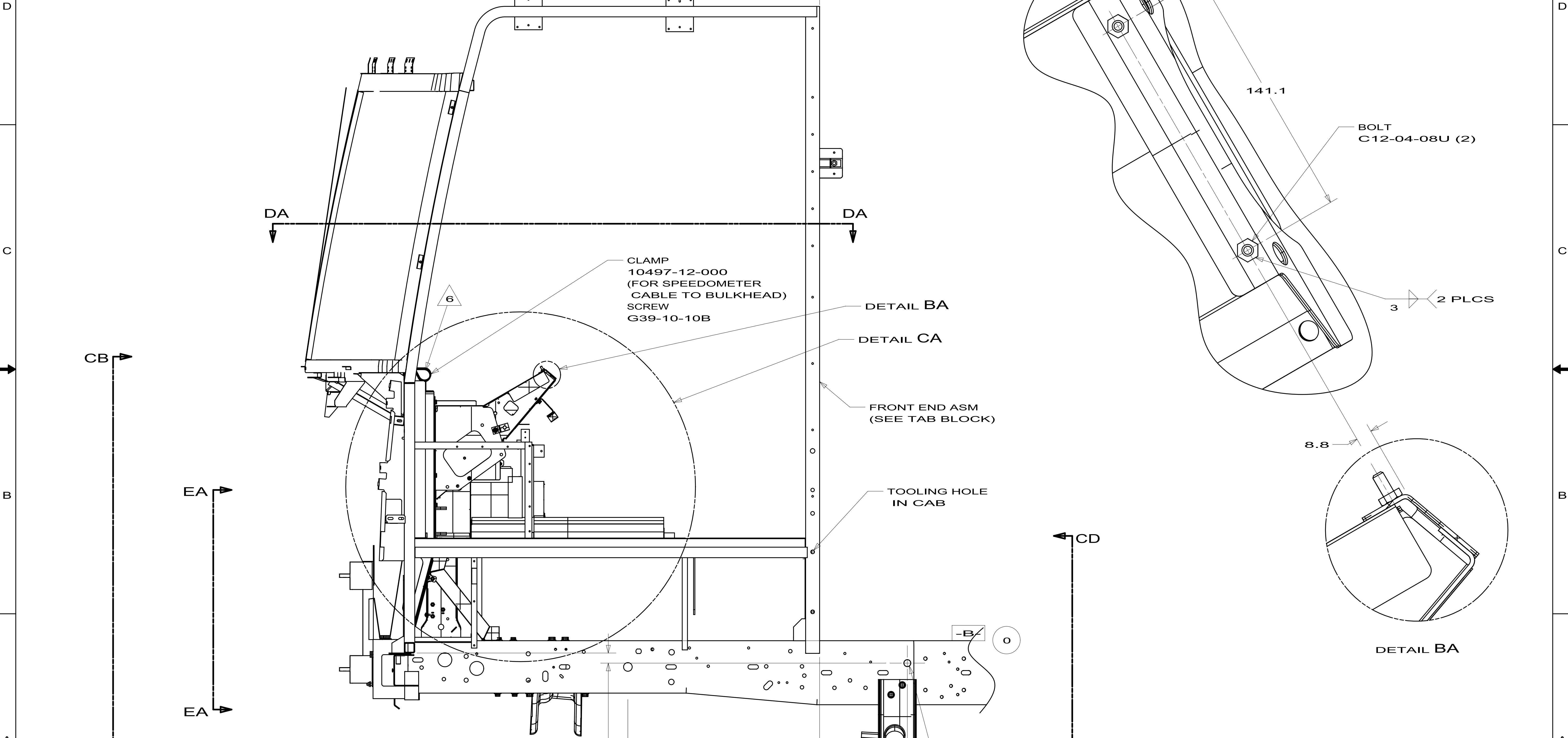
SHEET 1 OF 5

PART NO 167251

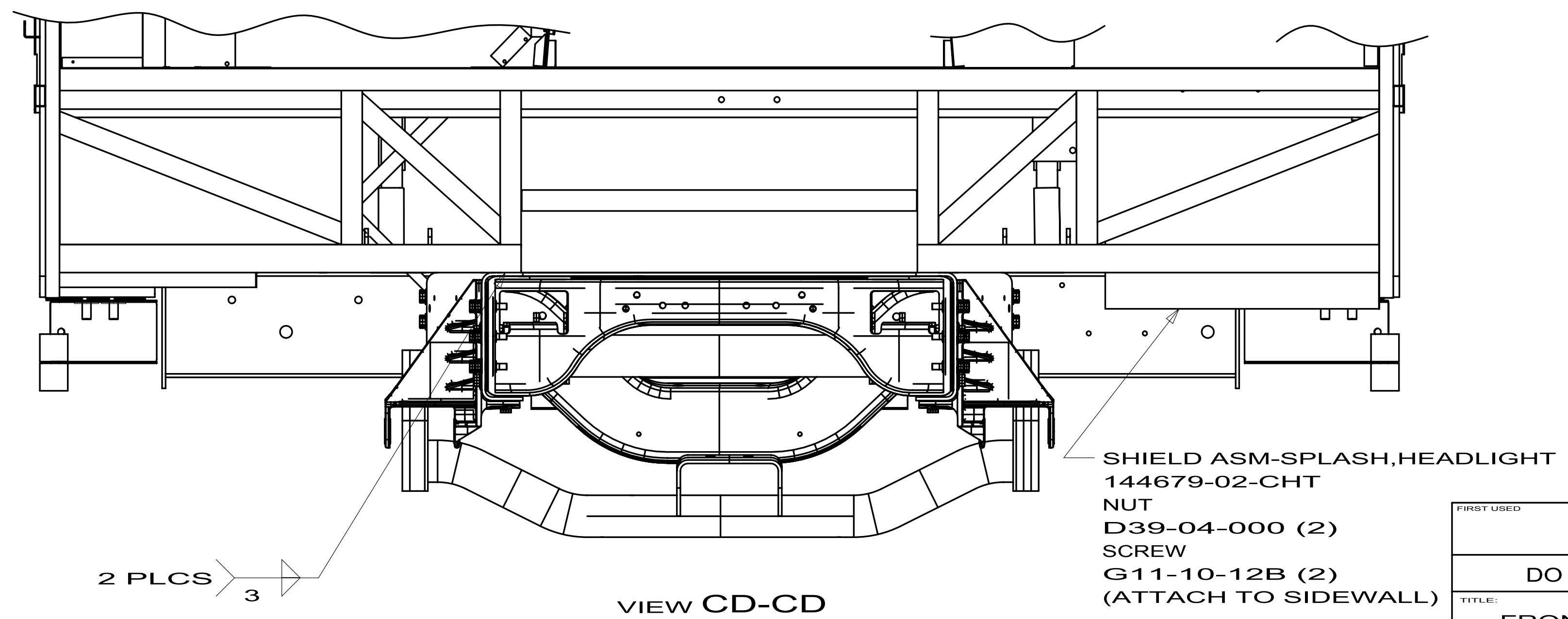
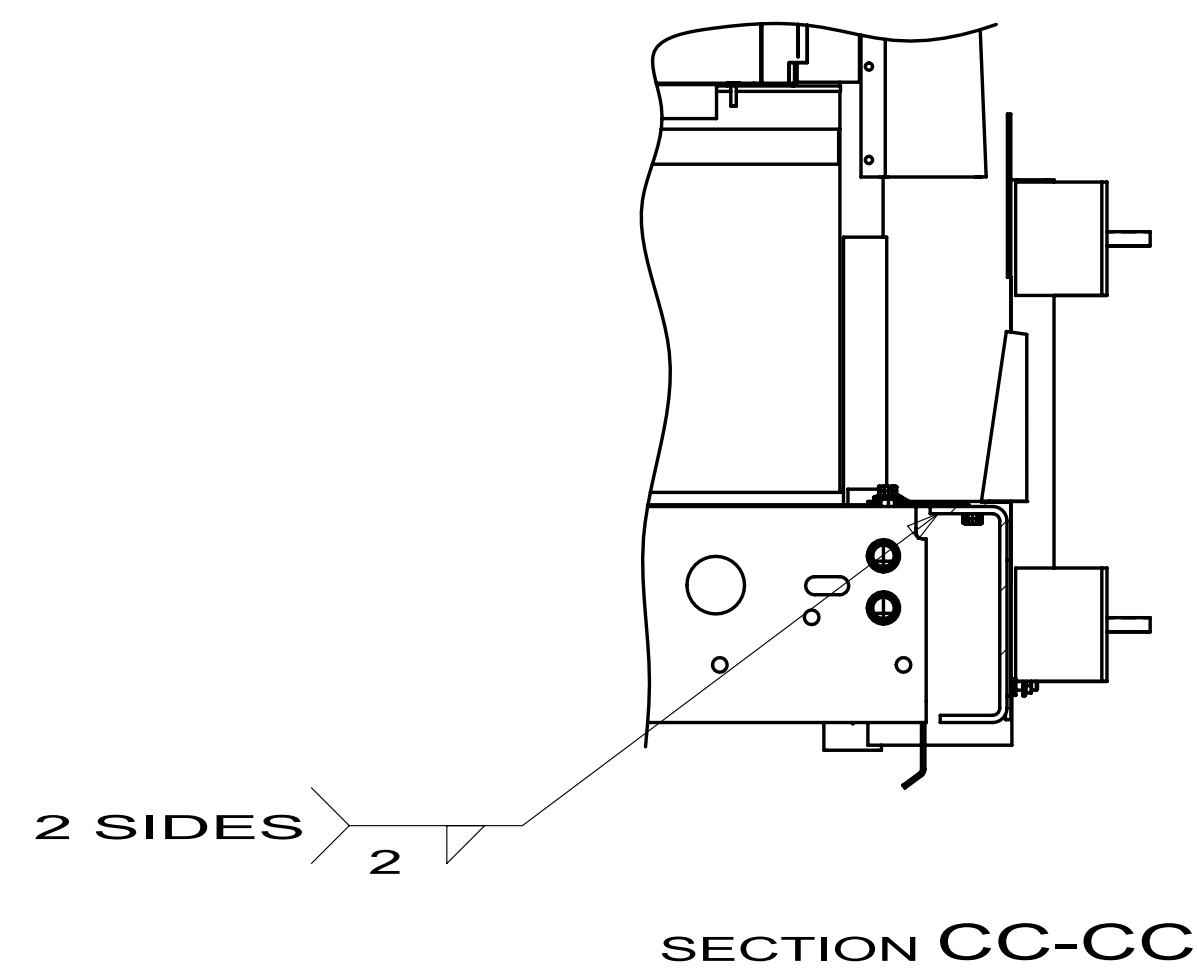
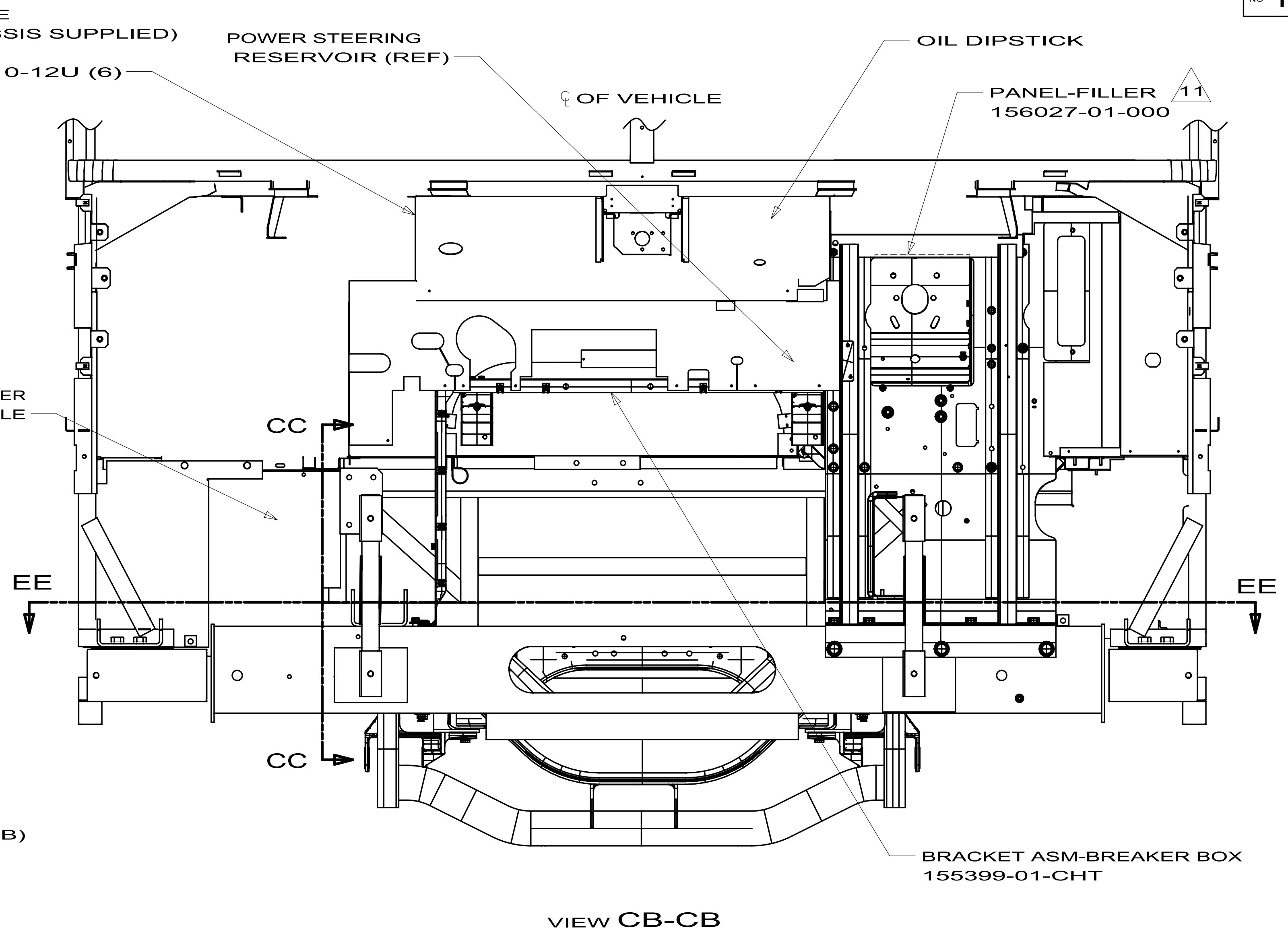
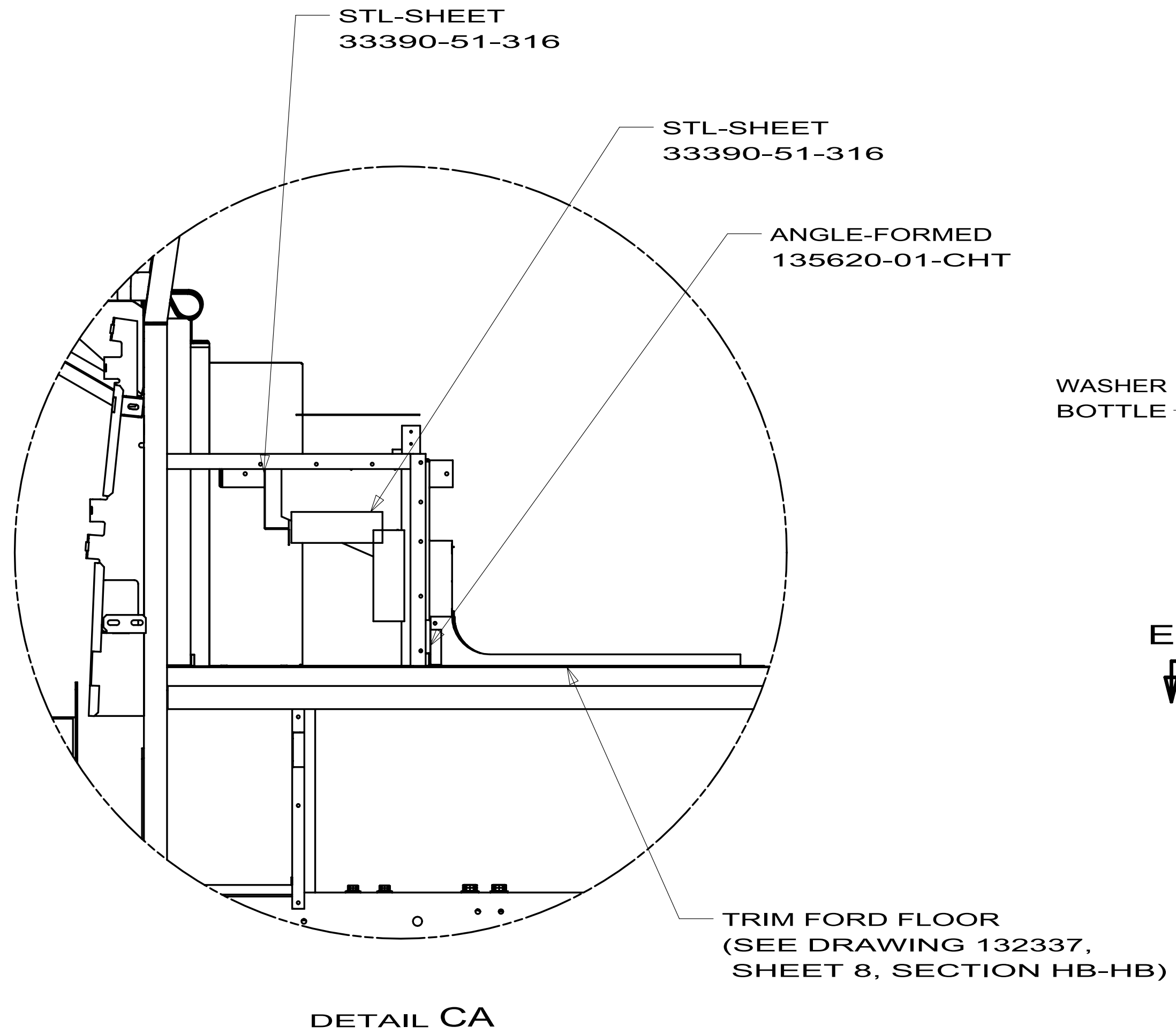
REV

REF: 1

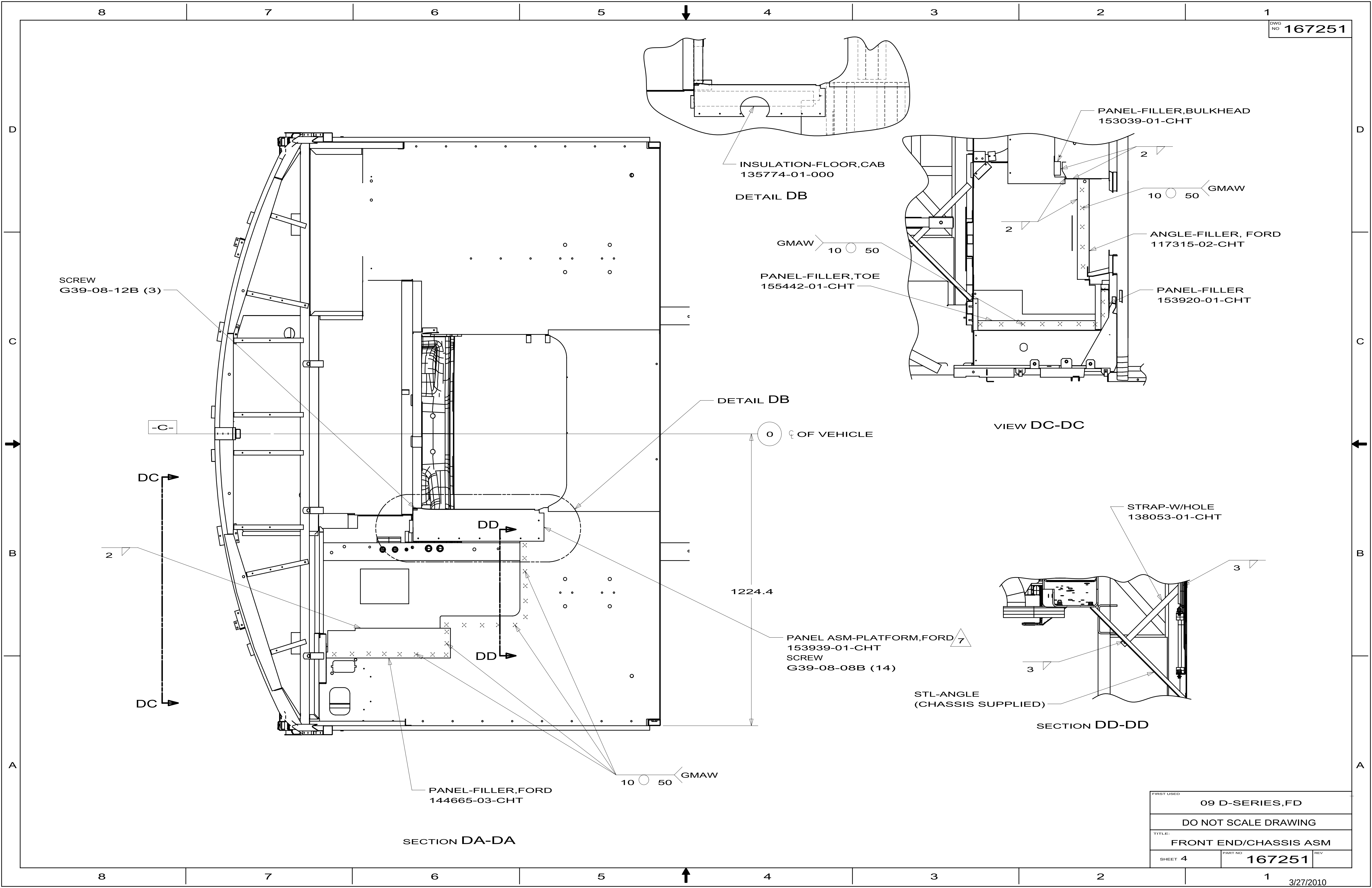
3/27/2010



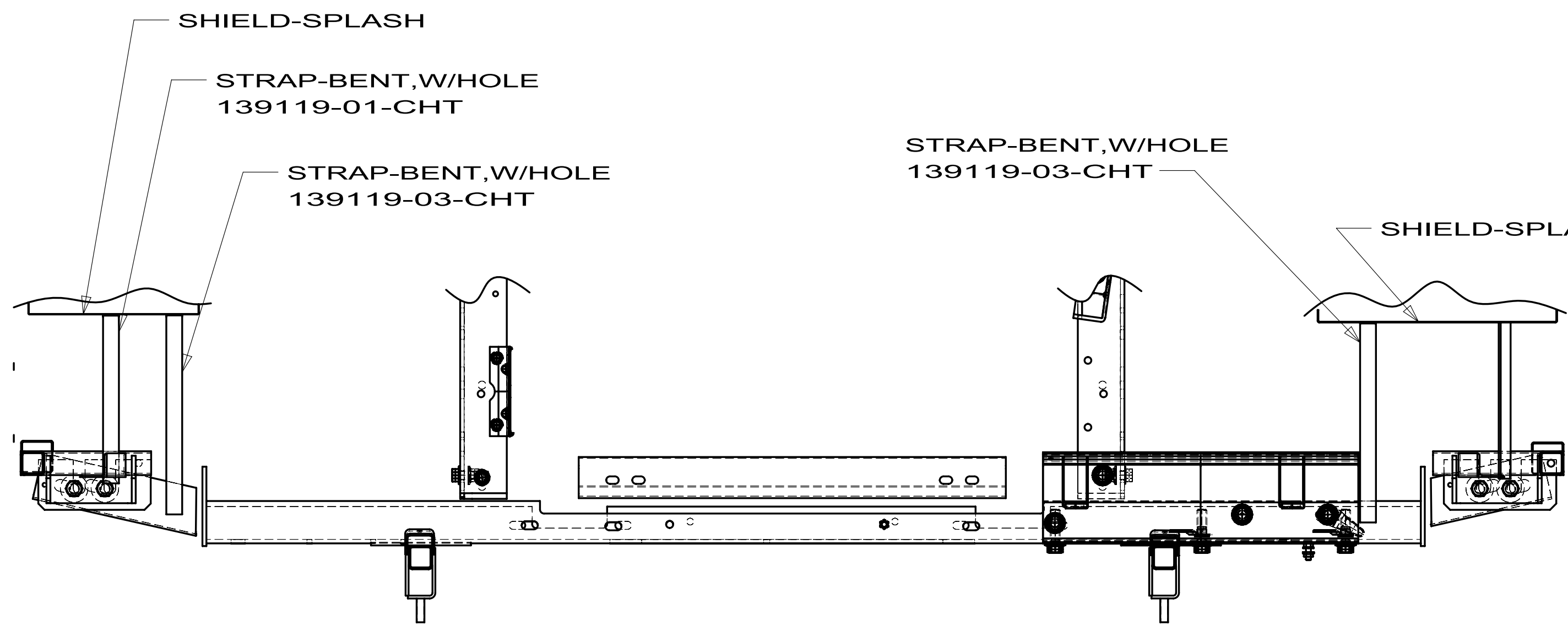
FIRST USED		
09 D-SERIES,FD		
DO NOT SCALE DRAWING		
TITLE:		
FRONT END/CHASSIS ASM		
SHEET 2	PART NO	REV
	167251	



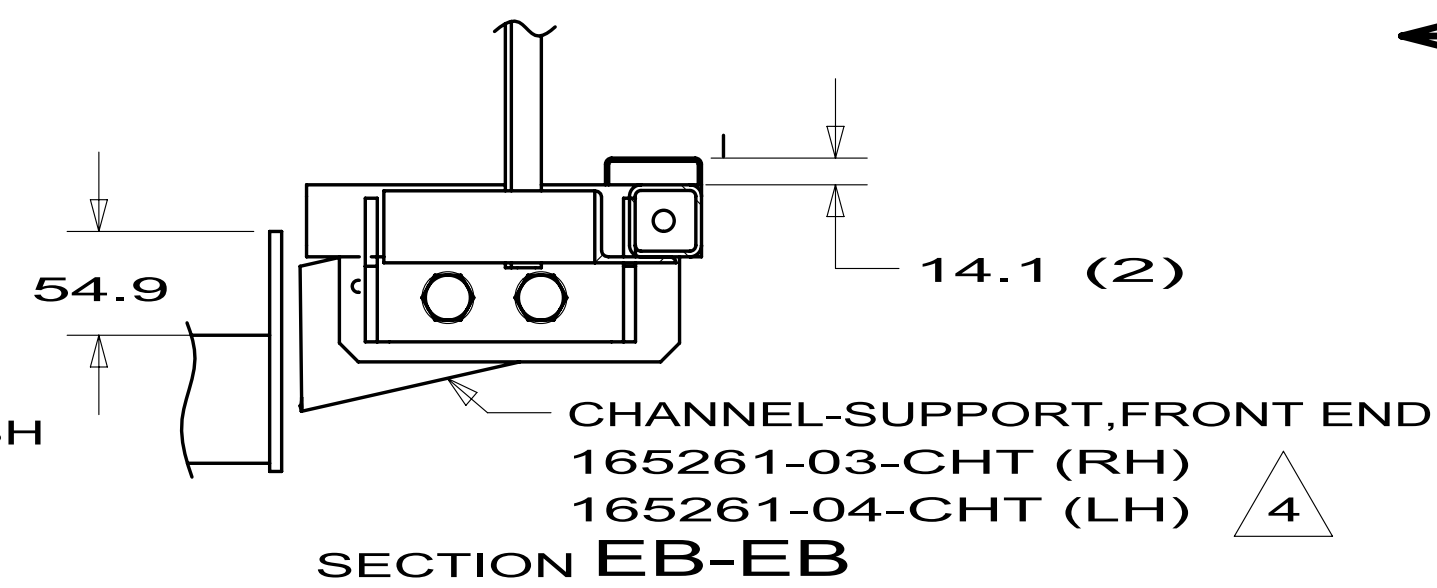
FIRST USED			09 D-SERIES,FD		
DO NOT SCALE DRAWING					
TITLE: FRONT END/CHASSIS ASM					
SHEET 3		PART NO	167251		REV



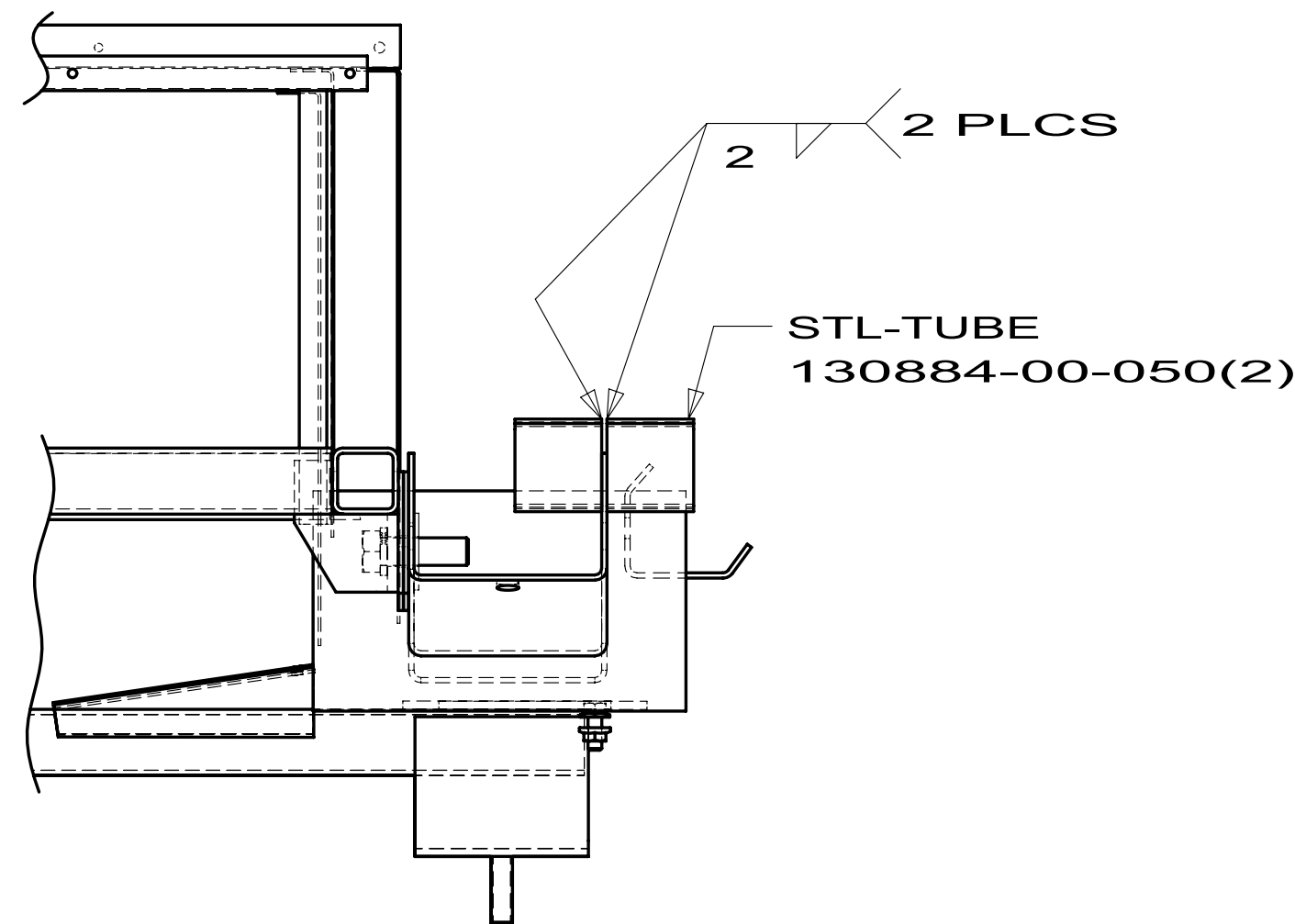
FIRST USED		
09 D-SERIES,FD		
DO NOT SCALE DRAWING		
TITLE:		
FRONT END/CHASSIS ASM		
SHEET 4	PART NO	REV
	167251	



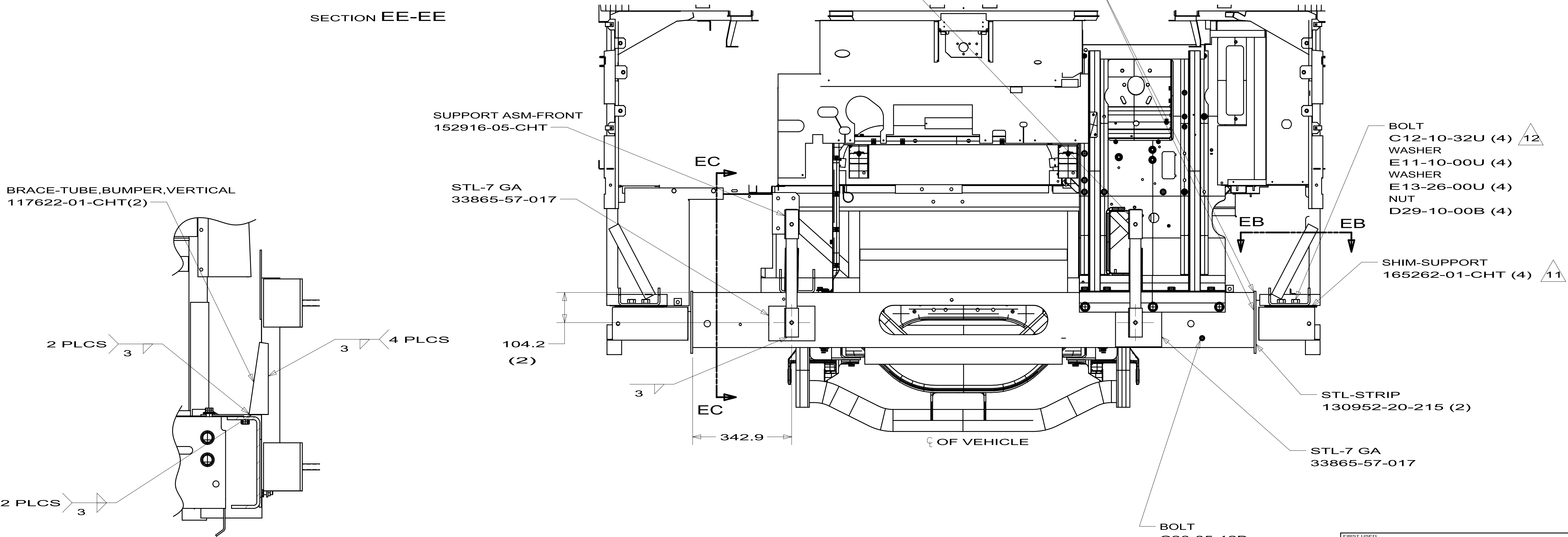
SECTION EE-EE



SECTION EB-EB



VIEW ED-ED
BOTH SIDES

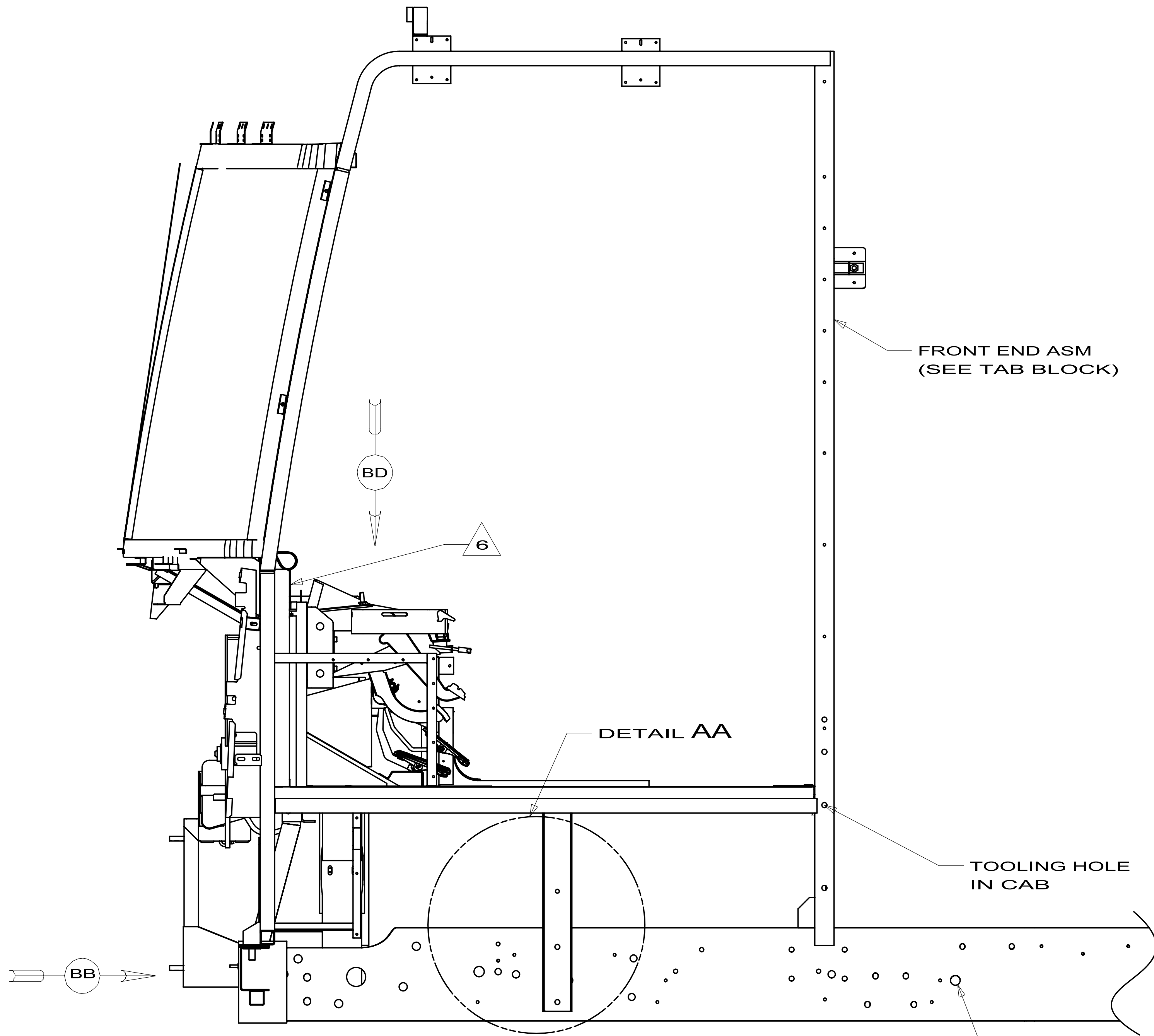


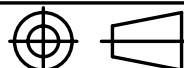
VIEW EA-EA

SECTION EC-EC

FIRST USED		
09 D-SERIES, FD		
DO NOT SCALE DRAWING		
TITLE: FRONT END/CHASSIS ASM		
SHEET 5	PART NO 167251	REV

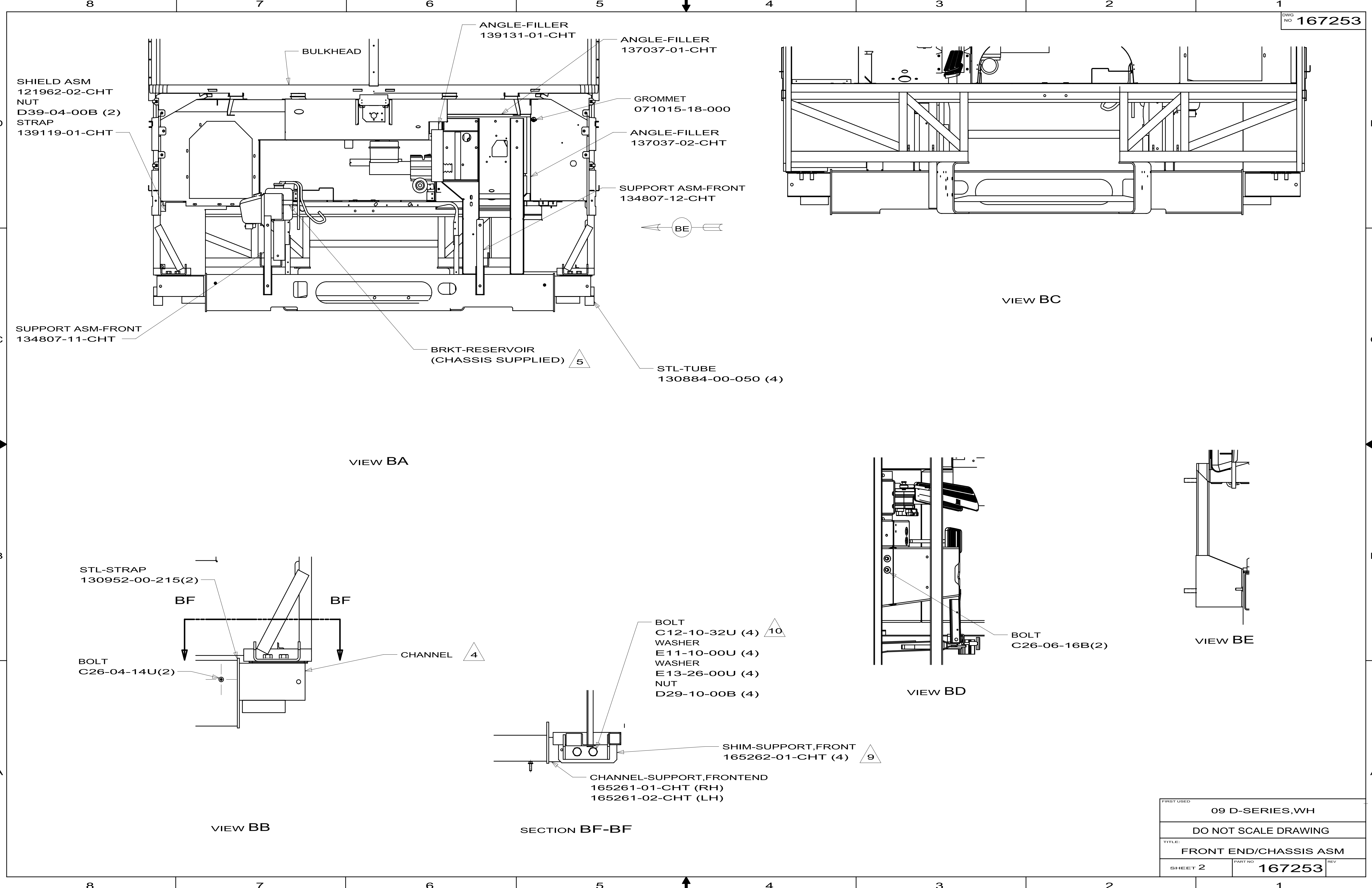
		1	
RELEASE	REV A	DATE	DWG NO 167253
REV	ZONE	REVISION RECORD	DATE DFT:R-ORIG



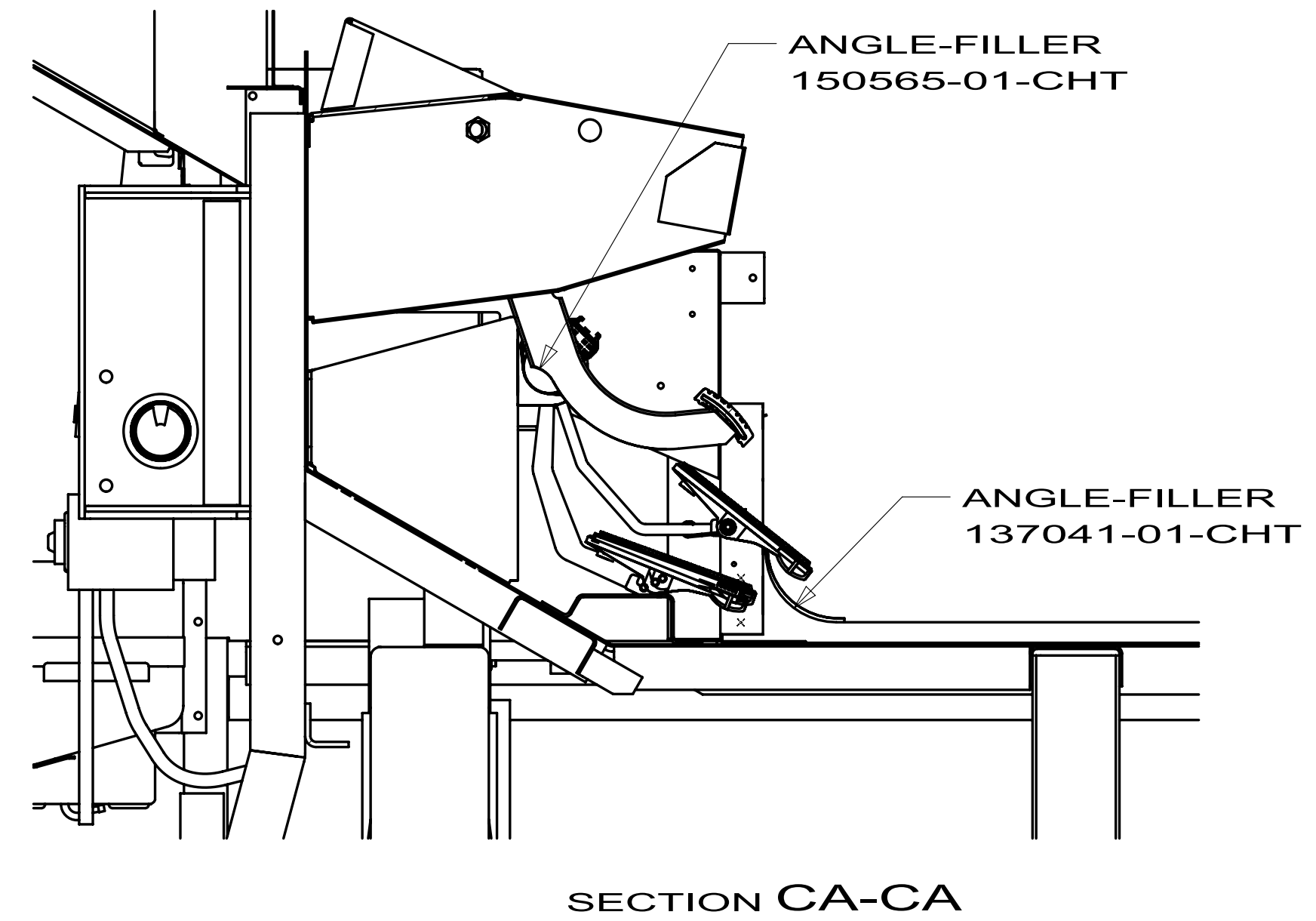
- | | | | |
|--|--|--|--|
|  | | COPY RIGHT 2009
WINNERBAGO
INDUSTRIES, INC. | |
| DFT# _____
CH# _____
P.E. _____
M.E. _____
DSN# _____ | | ORIG. DATE _____
ALL DIMENSIONS ARE
IN MILLIMETERS
FIRST USED _____
09 D-SERIES,WH | |
| UNSPECIFIED TOLERANCES ARE:
WHOLE DIM (X) ± 3
ONE-PLACE (X.X) ± 1.5
TWO-PLACE (X.XX) ± 0.50
ANGLE ± 1° | | MATERIAL: _____ | |
| THIRD ANGLE
PROJECTION | |  | |
| DO NOT SCALE DRAWING | | | |
| TITLE: | | | |
| FRONT END/CHASSIS ASM | | | |
| SHEET 1 OF 6 | | PART NO 167253 | |
| | | REV _____ | |

NOTES:

SEE CHART
FOR COLOR VARIATIONS
OF THIS PART



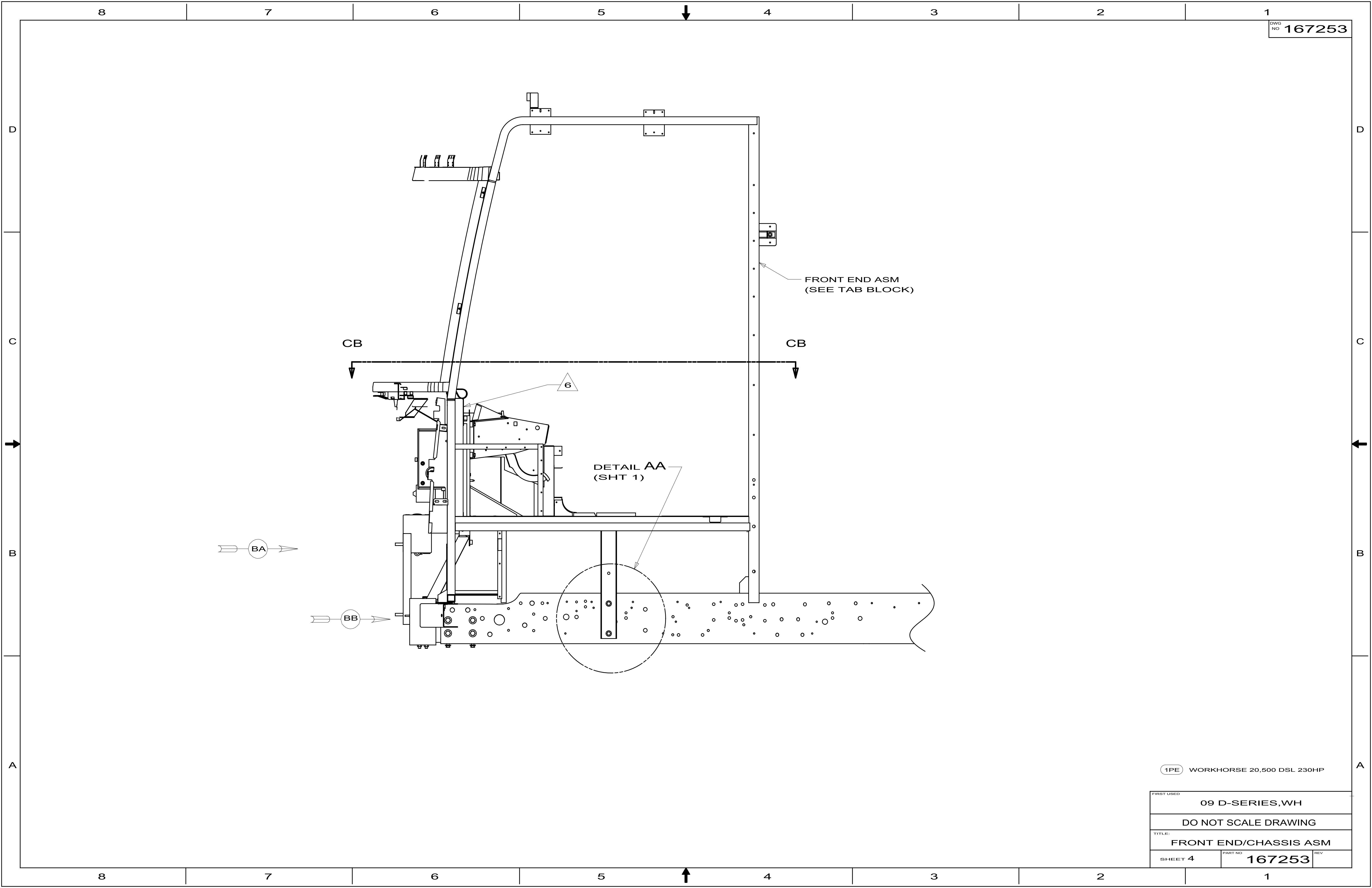
FIRST USED		
09 D-SERIES,WH		
DO NOT SCALE DRAWING		
TITLE: FRONT END/CHASSIS ASM		
SHEET 2	PART NO 167253	REV



WH TOOLING HOLE

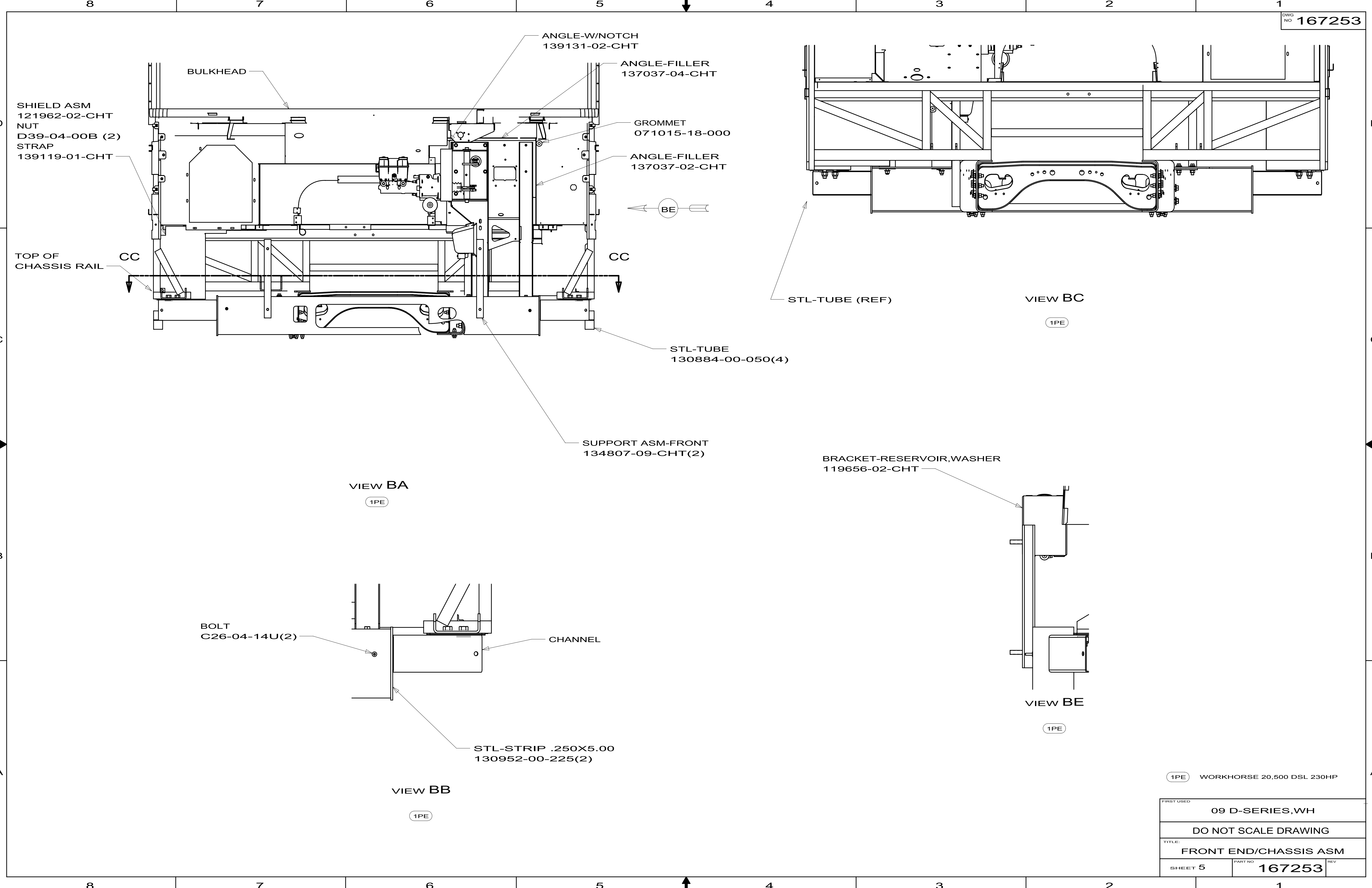
3 PANEL-FILLER
137045-01-CHT

FIRST USED			09 D-SERIES,WH		
			DO NOT SCALE DRAWING		
TITLE:			FRONT END/CHASSIS ASM		
SHEET 3		PART NO	167253	REV	



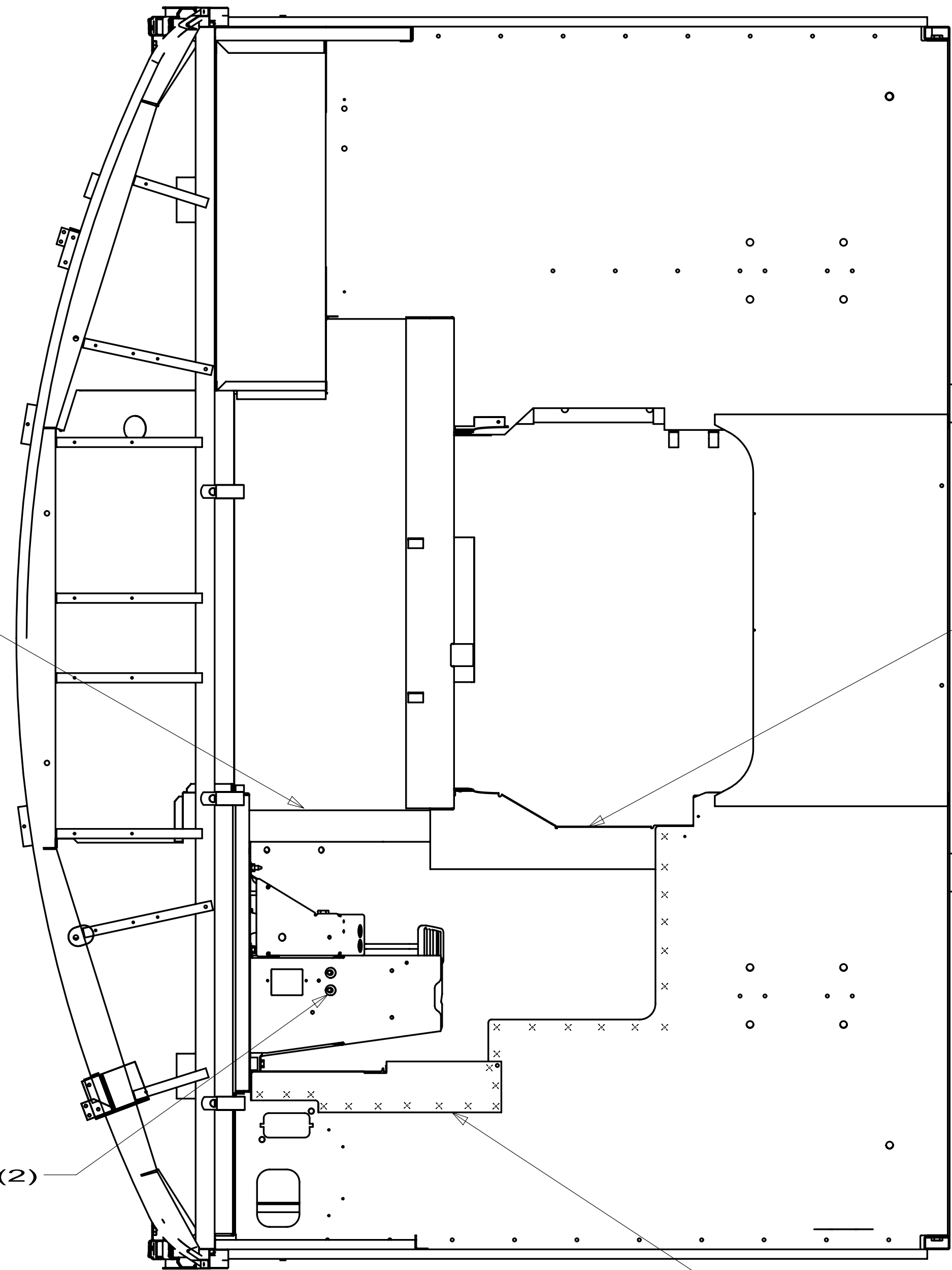
1PE WORKHORSE 20,500 DSL 230HP

FIRST USED		
09 D-SERIES,WH		
DO NOT SCALE DRAWING		
TITLE: FRONT END/CHASSIS ASM		
SHEET 4	PART NO 167253	REV



1PE WORKHORSE 20,500 DSL 230HP

FIRST USED		
09 D-SERIES,WH		
DO NOT SCALE DRAWING		
TITLE: FRONT END/CHASSIS ASM		
SHEET 5	PART NO 167253	REV



9
SHIM-SUPPORT,FRONT END
165262-01-CHT(4)

10
BOLT
C12-10-32U(4)
WASHER
E11-10-00U(4)
WASHER
E13-26-00U(4)
NUT
D29-10-00B(4)

4
CHANNEL-SUPPORT,FRONT END
173021-02-CHT

CHANNEL-SUPPORT,FRONT END
173021-01-CHT 4

SECTION CC-CC

1PE

ANGLE-FILLER,MOTOR COVER
137041-02-CHT

PANEL-CLOSEOUT,CAB
172399-03-CHT

BOLT
C26-06-16U(2)

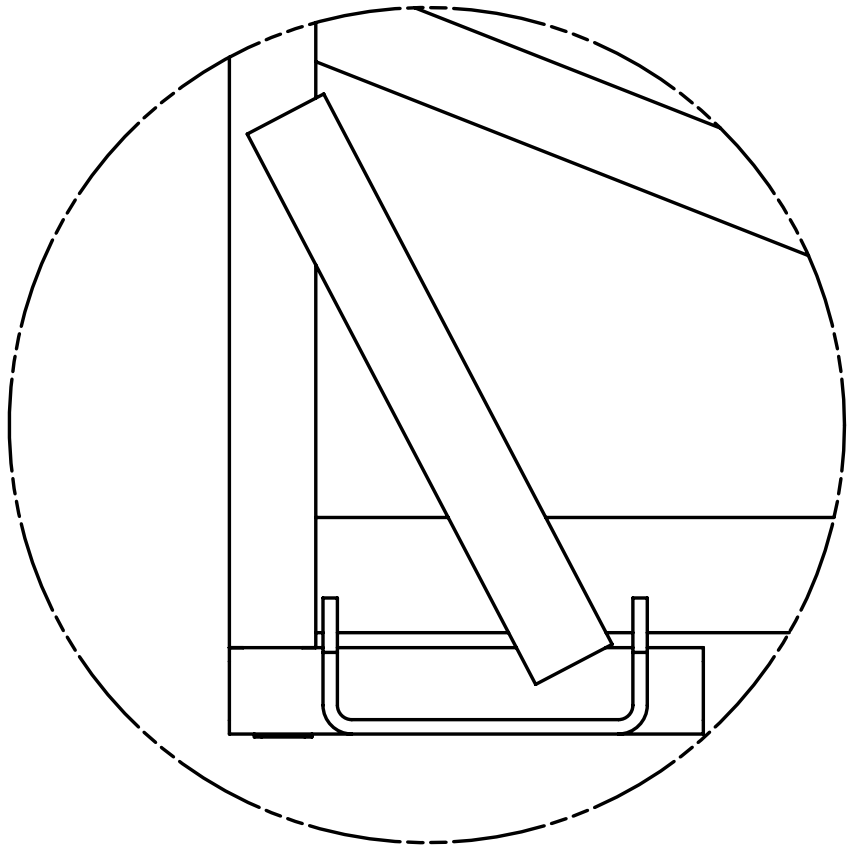
PANEL-FILLER,BULKHEAD
137045-01-CHT 3

SECTION CB-CB

1PE

1PE WORKHORSE 20,500 DSL 230HP

FIRST USED		
09 D-SERIES,WH		
DO NOT SCALE DRAWING		
TITLE:		
FRONT END/CHASSIS ASM		
SHEET 6	PART NO 167253	REV



DETAIL AA
(2 PLCS)

ANGLE-A PILLAR
166365-01-CHT (4)

GUSSET-WINDSH.
124835-01-CHT

SUPPORT-WIPER
158946-01-CHT

MOUNT-BODY,UPPER
165300-01-CHT (2)

SUPPORT ASM-TV
143632-07-CHT

BRACKET-ROOF CAP
124454-01-CHT (7)

CHANNEL-SUPPORT,FRONT END
117462-05-CHT (2)

SUPPORT-WIPER
158946-02-CHT

ANGLE-FORMED
126289-65-CHT (2)

GUSSET-WINDSH.
124835-02-CHT

BRACKET ASM-WIPER MOTOR
160712-05-CHT

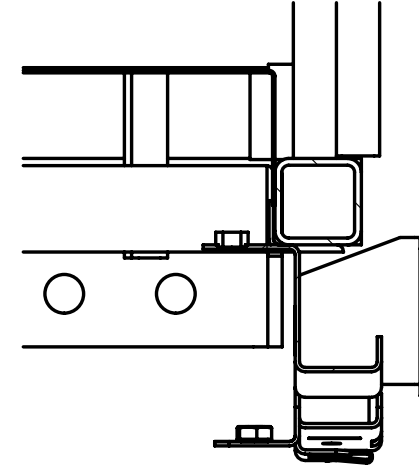
STL-TUBE
130894-00-945 (2)

STL-ANG
130922-00-274 (2)

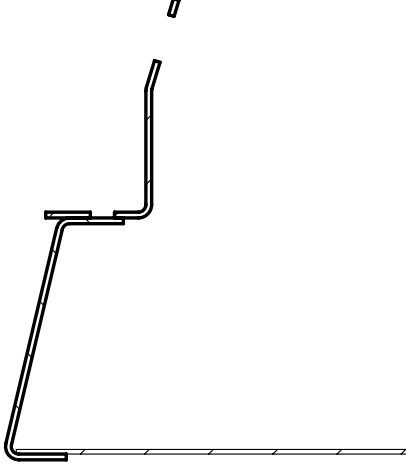
TUBE-SUPPORT
138785-02-CHT (2)

SHIELD-SPLASH,RH
118592-01-CHT

STRAP-SUPPORT
125201-05-CHT (2)



SECTION AB-AB



SECTION AC-AC

WORKHORSE DIESEL



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INDUSTRIES, INC.

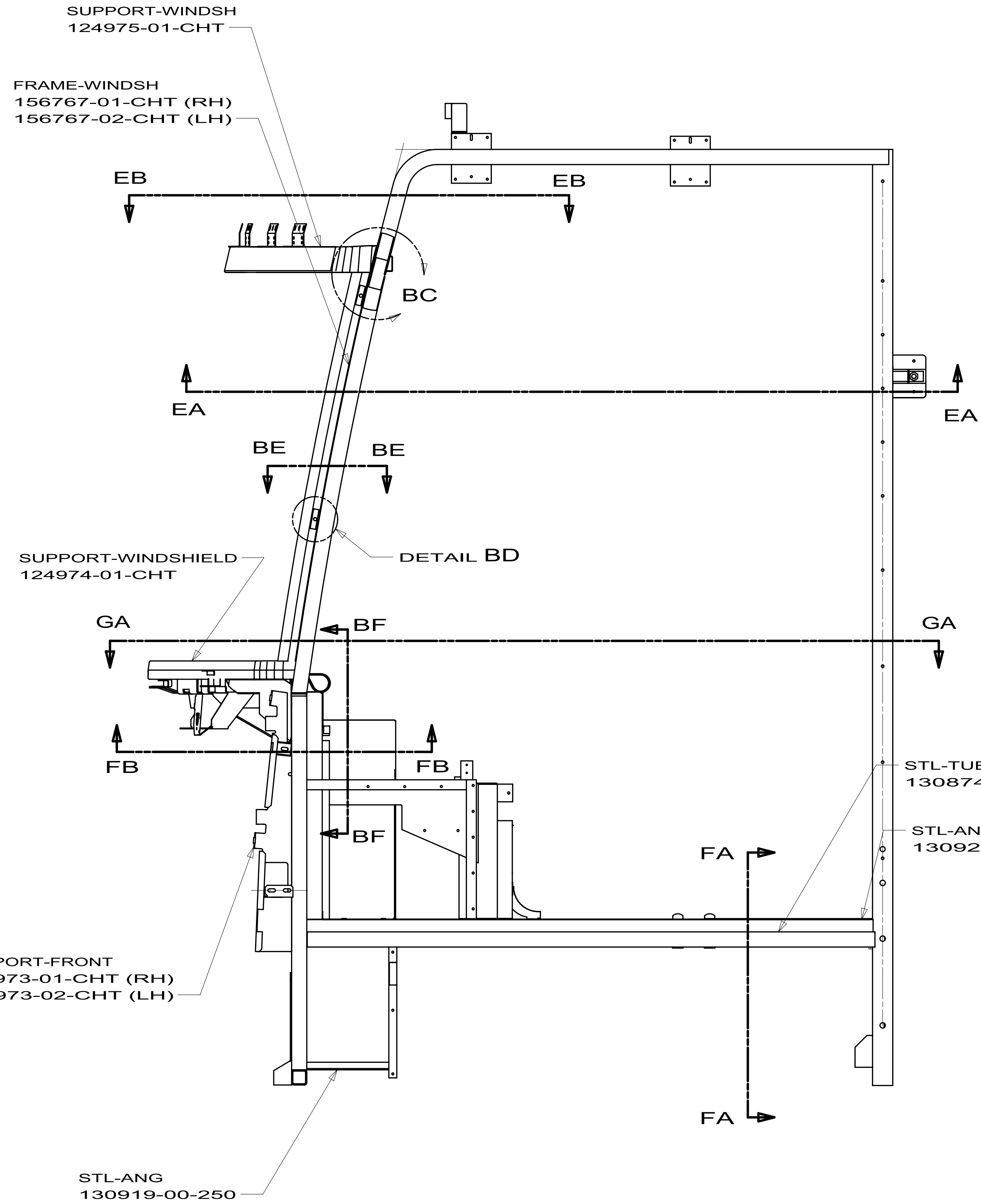
UNSPECIFIED TOLERANCES ARE:	MATERIAL:
WHOLE DIM (X) : 3	
ONE-PLACE (X.X) : 1.5	
TWO-PLACE (X.XX) : 0.50	
ANGLE : 1°	
THIRD ANGLE PROJECTION	WEIGHT = 387.3 LBS

DO NOT SCALE DRAWING

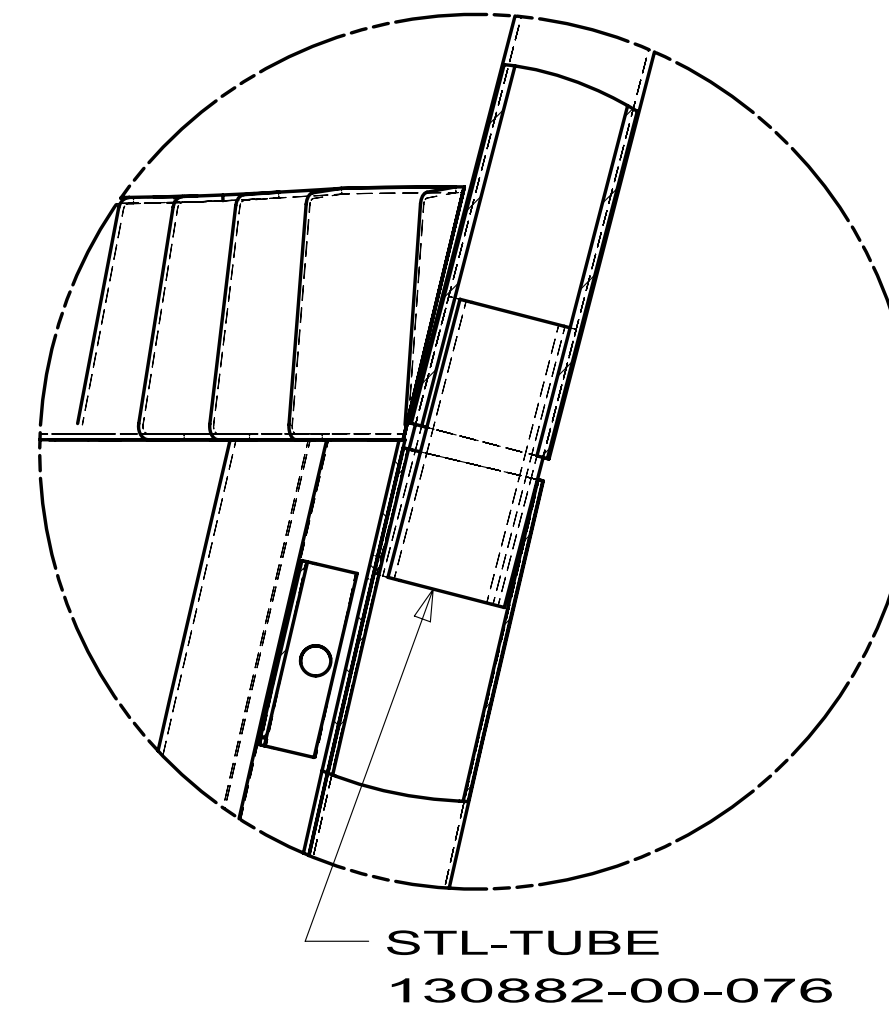
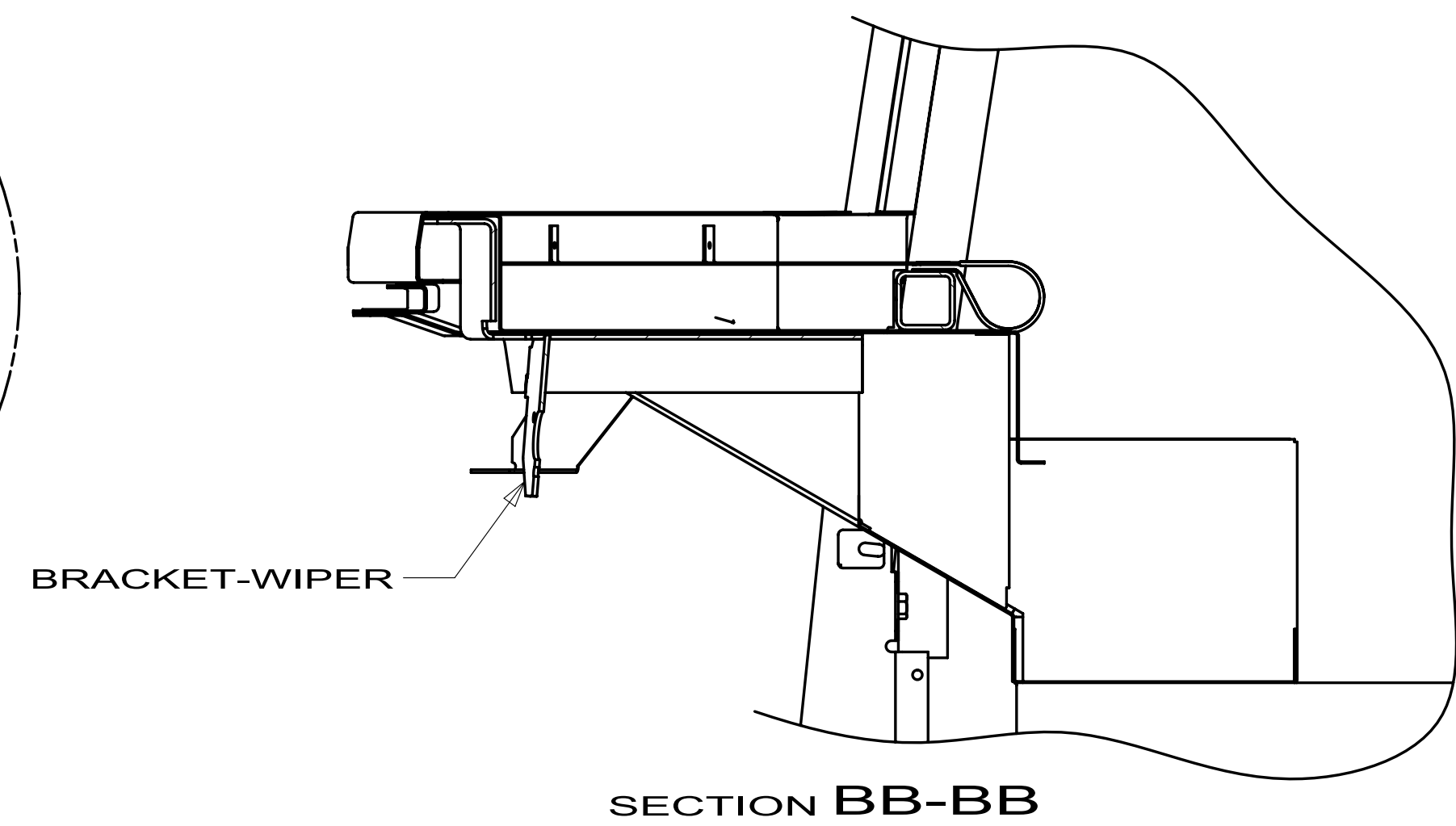
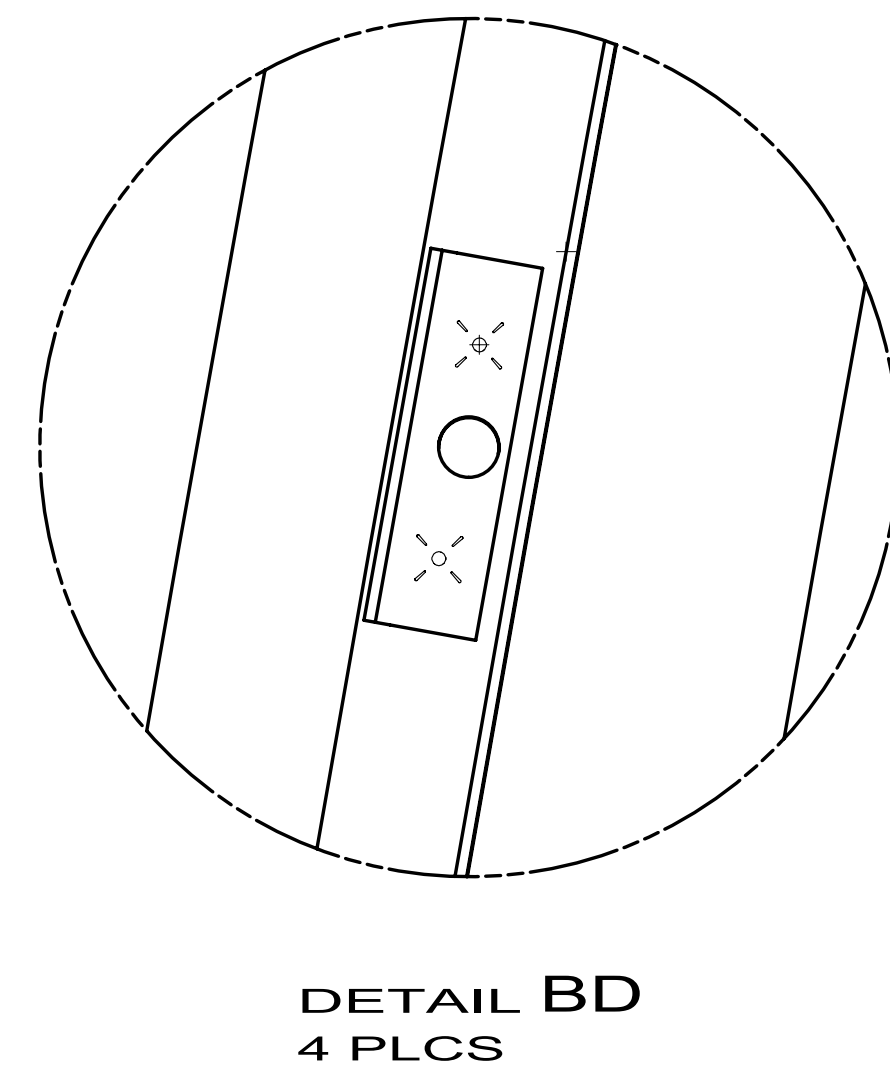
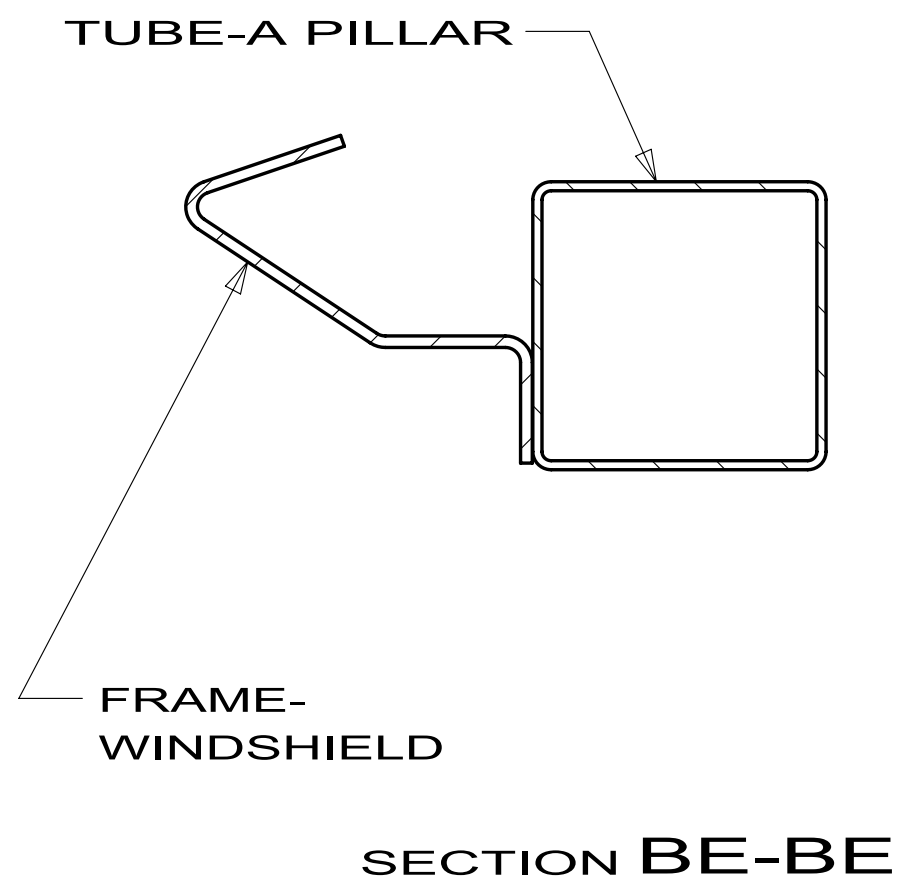
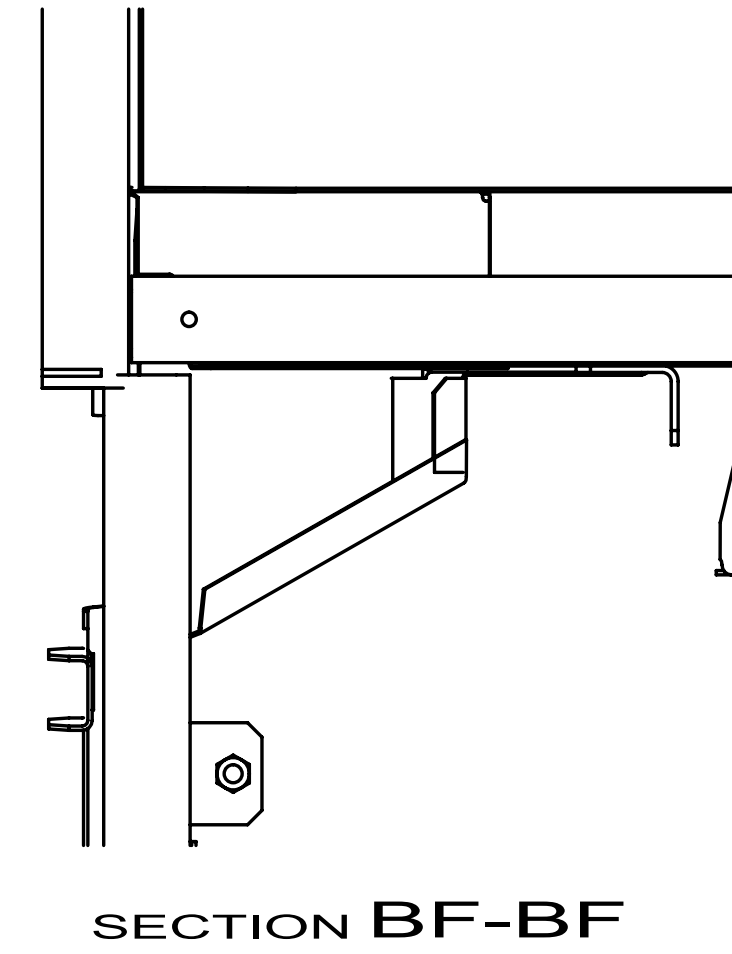
TITLE:		FRONT END ASM	
SHEET 1 OF 7	PART NO	173007	REV

- NOTES:
1. CLEAN, E-COAT, AND SEAL CAB W/143201-01-000.
 2. ATTACH AFTER E-COAT.
 3. 7.13 DIA HOLE MUST LINE UP WITH HOLE IN B-PILLAR.
 4. HOLES MUST ALIGN TO ALLOW FREE PASSAGE OF A #10 SCREW.
 5. SEAL WITH 110744-03-000 AFTER E-COAT.

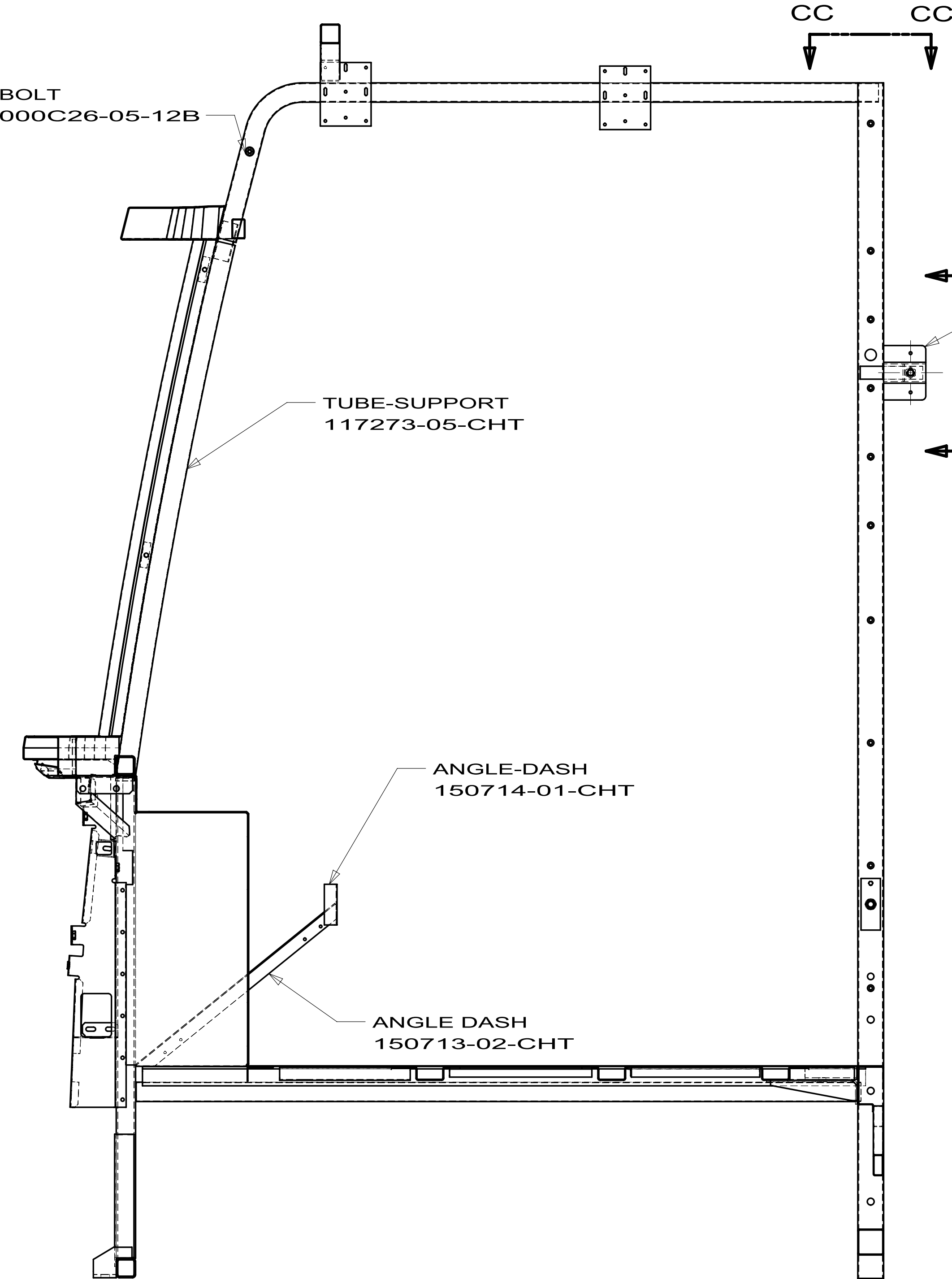
SEE CHART
FOR COLOR VARIATIONS
OF THIS PART



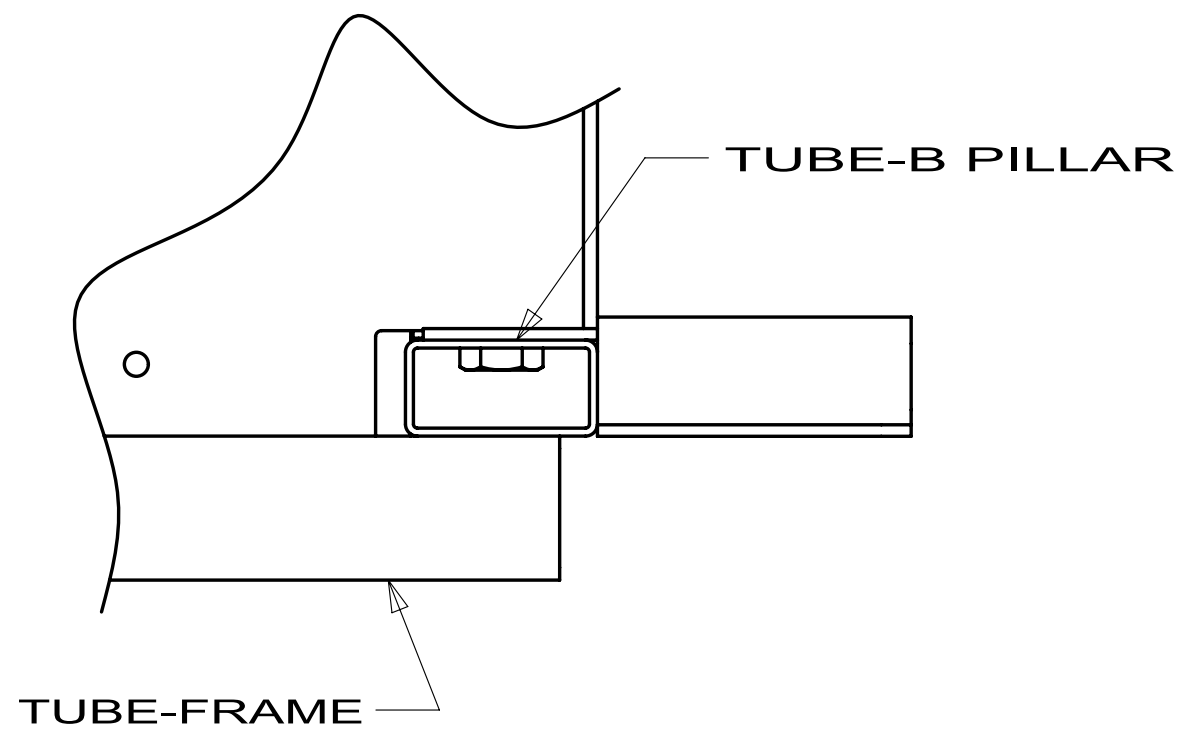
VIEW BA



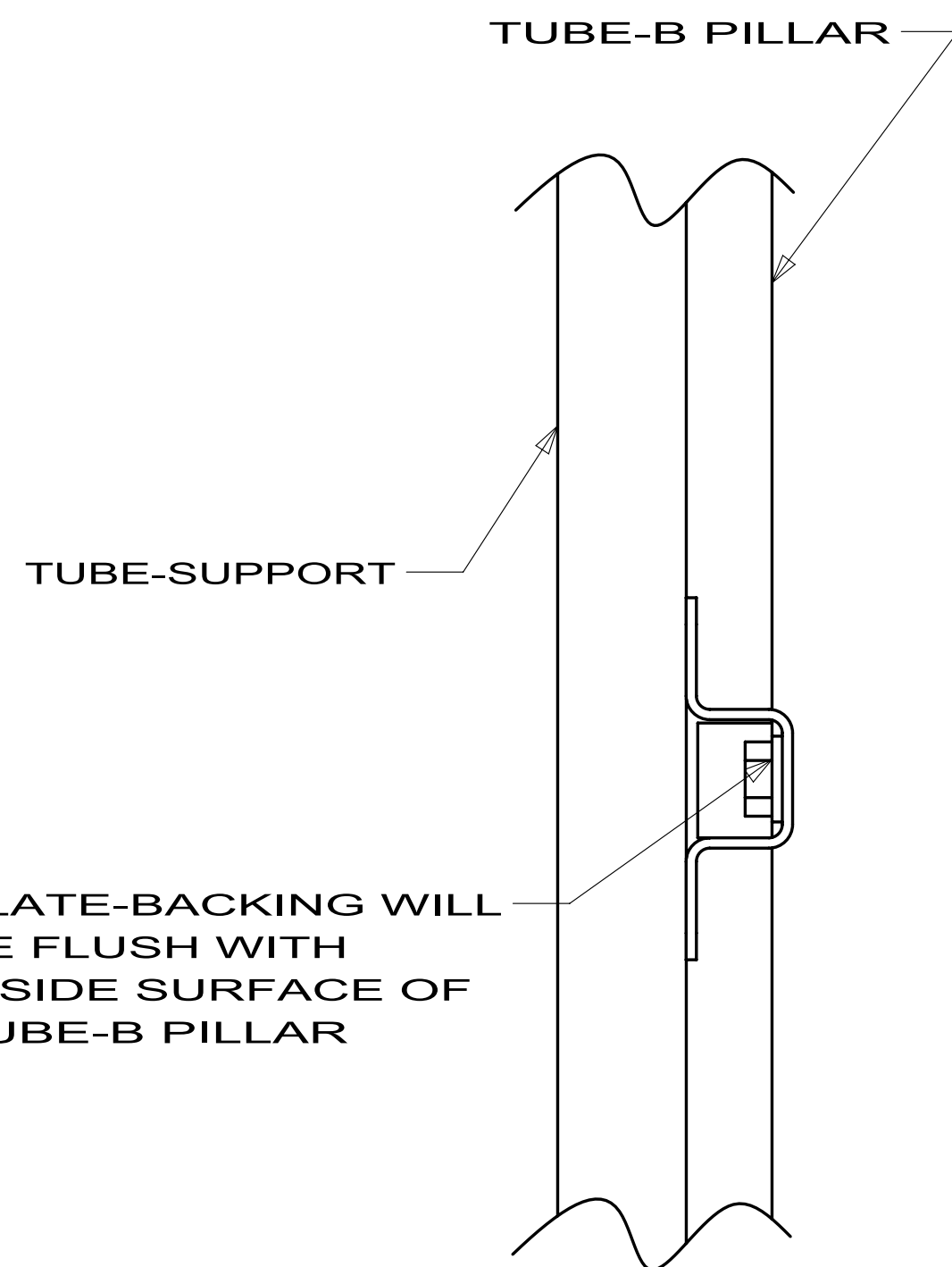
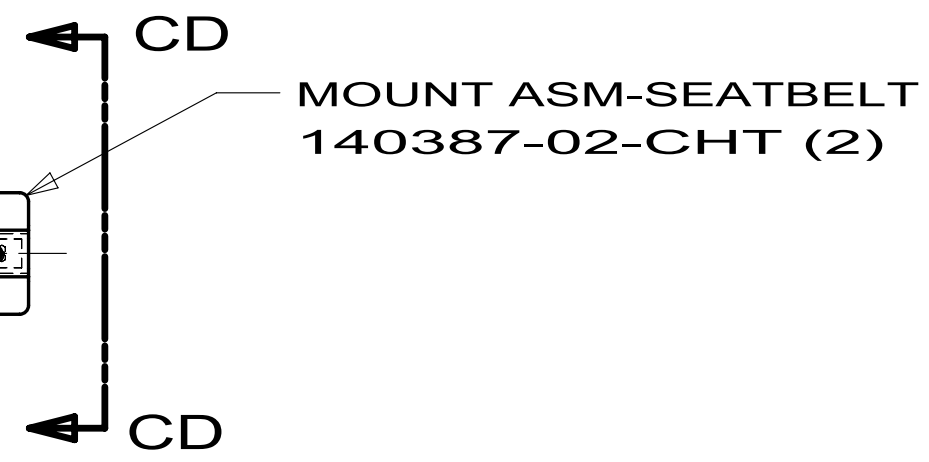
FIRST USED			10 D-SERIES
DO NOT SCALE DRAWING			
TITLE:			FRONT END ASM
SHEET 2	PART NO	173007	REV



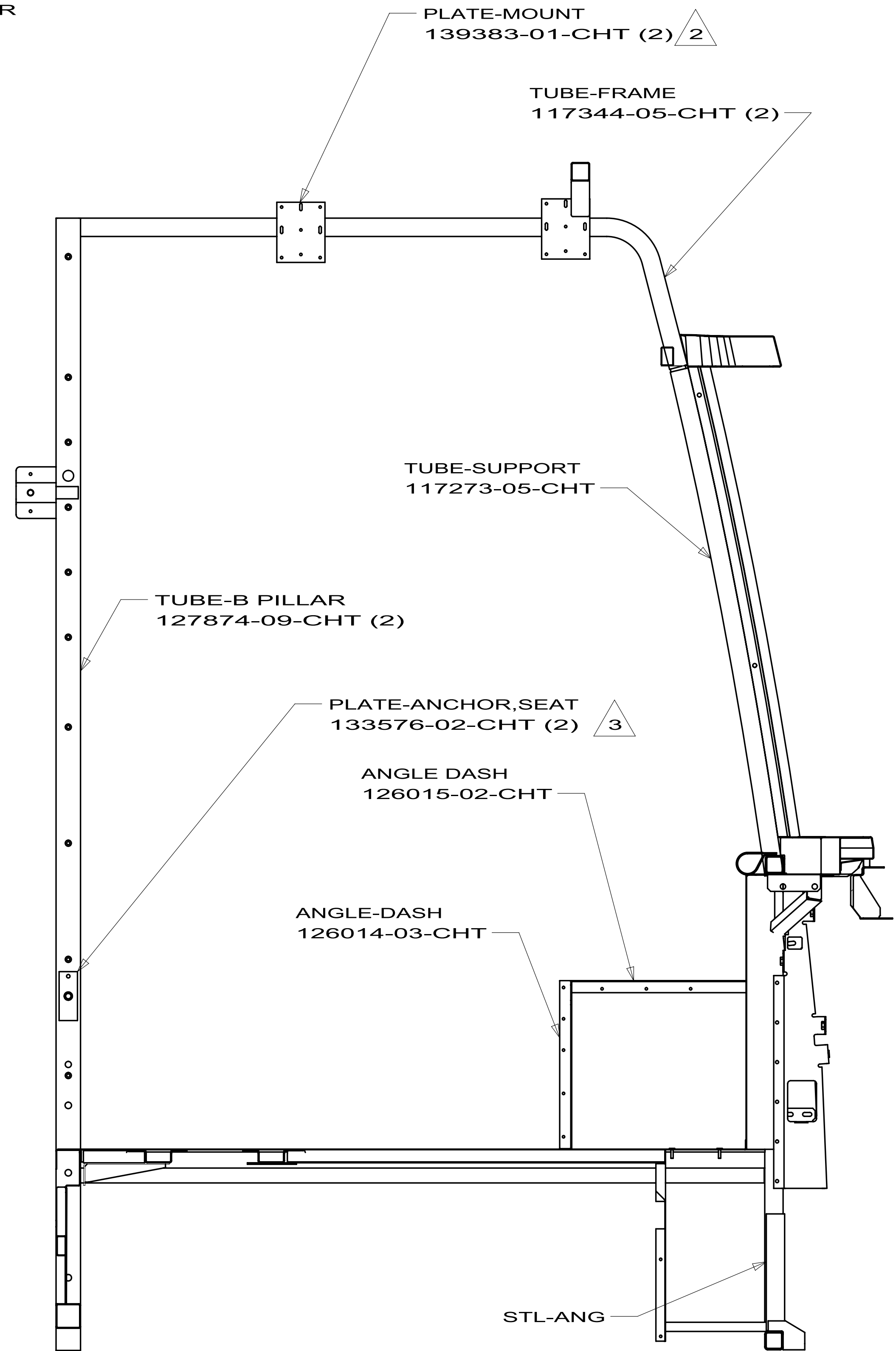
SECTION CA-CA



SECTION CC-CC
2 PLCS

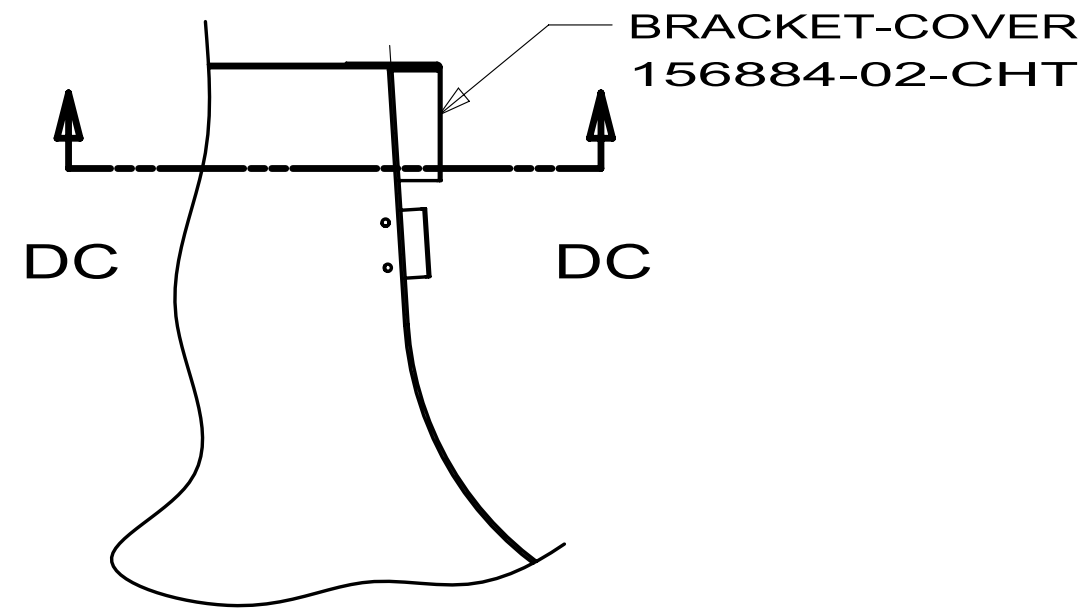


SECTION CD-CD

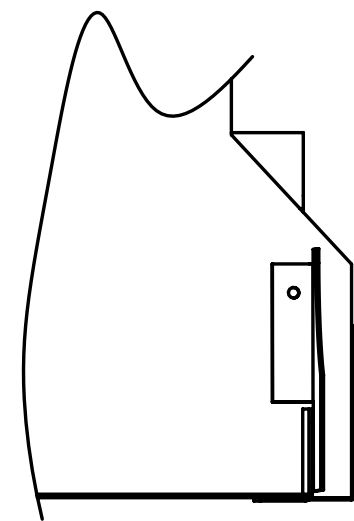


SECTION CB-CB

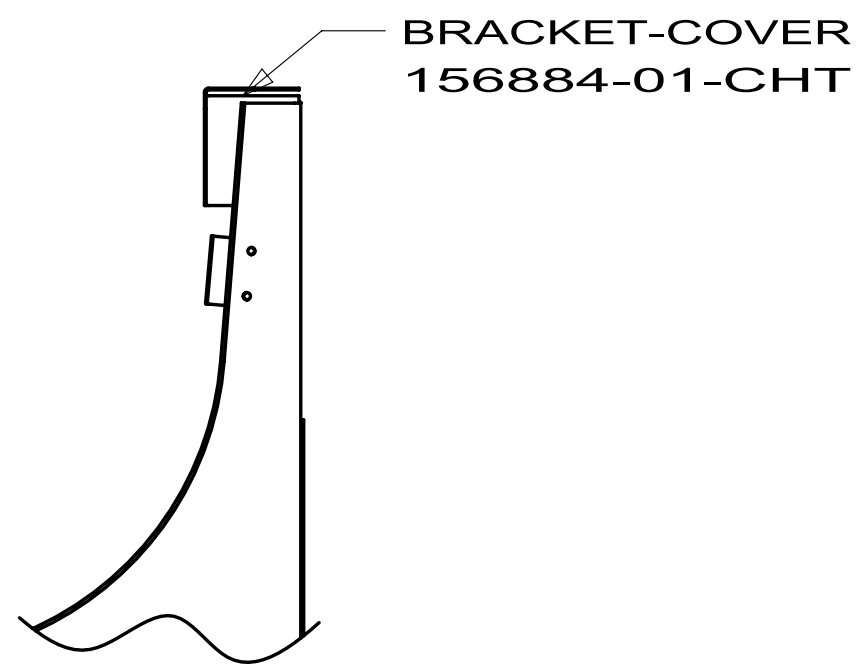
FIRST USED			10 D-SERIES
DO NOT SCALE DRAWING			
TITLE:			FRONT END ASM
SHEET 3	PART NO	173007	REV



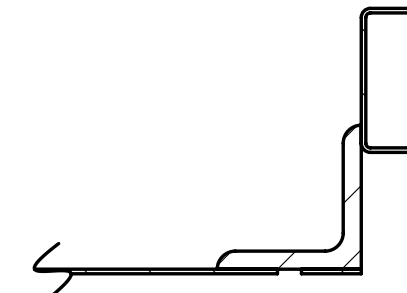
SECTION DB-DB



SECTION DC-DC



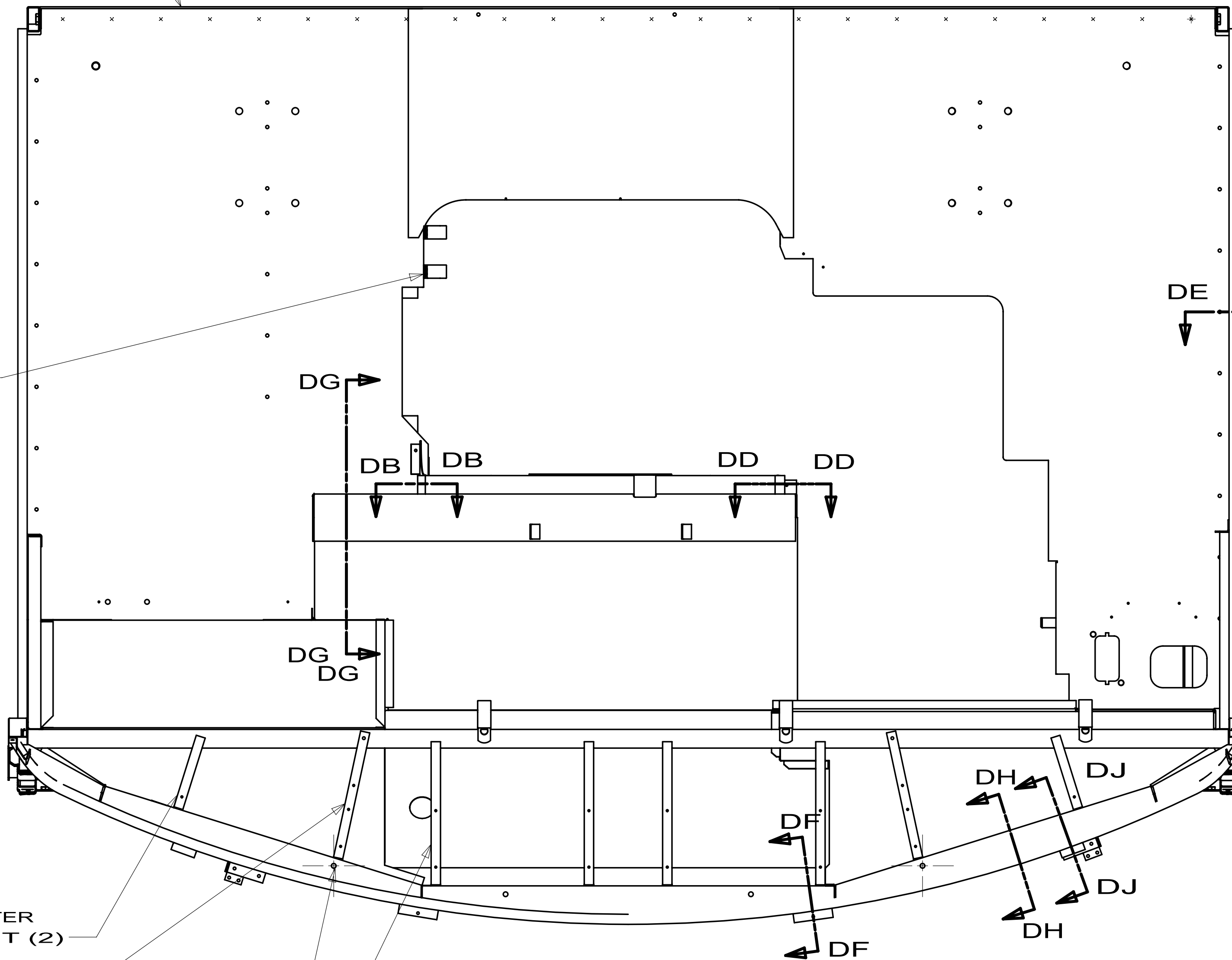
SECTION DD-DD



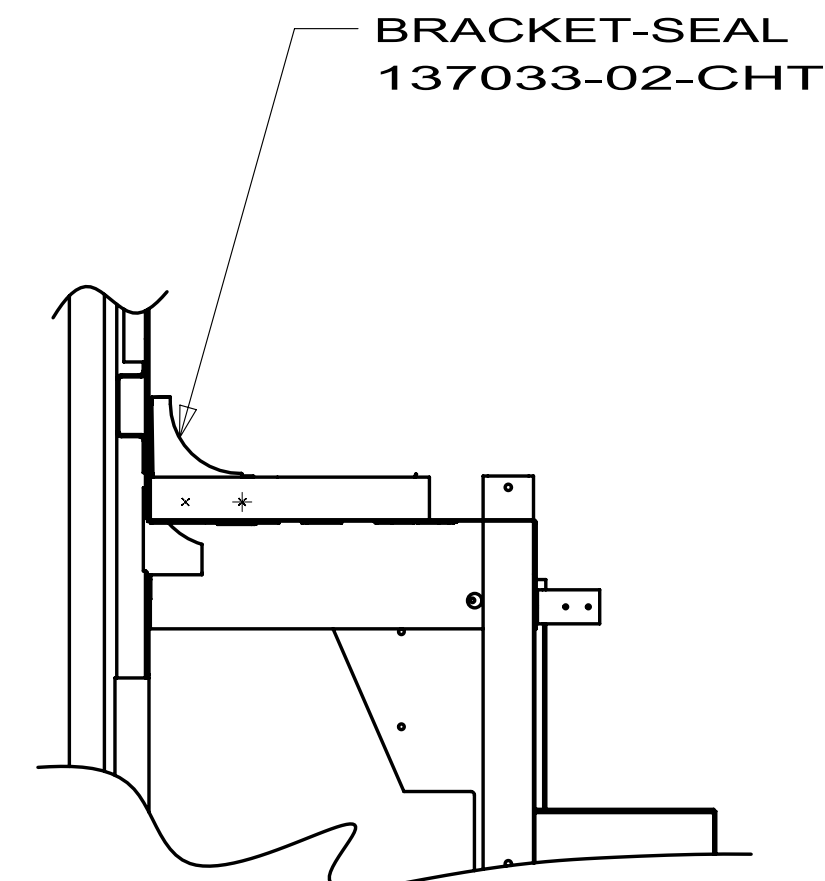
SECTION DE-DE

FLOOR ASM-CAB
133472-34-CHT

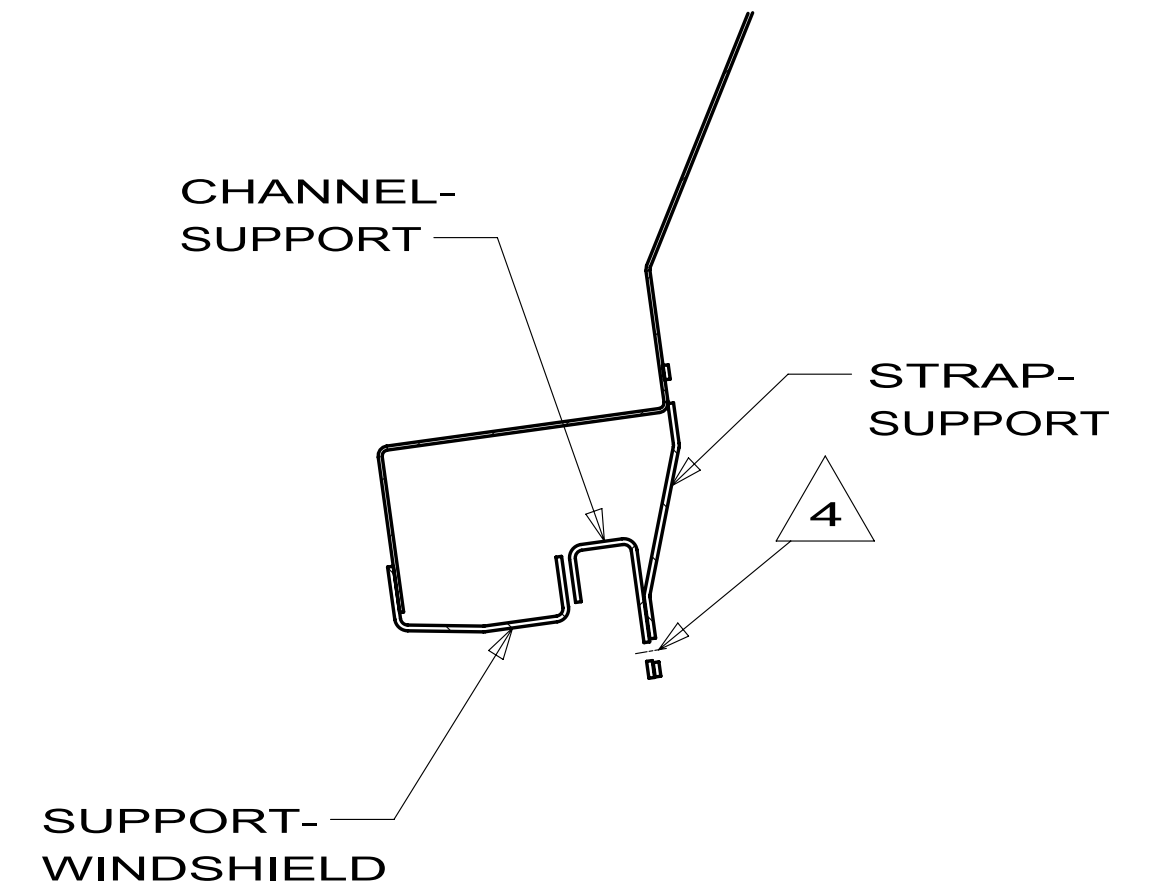
CLAMP-CLOSED-STL
010497-04-000 (2)



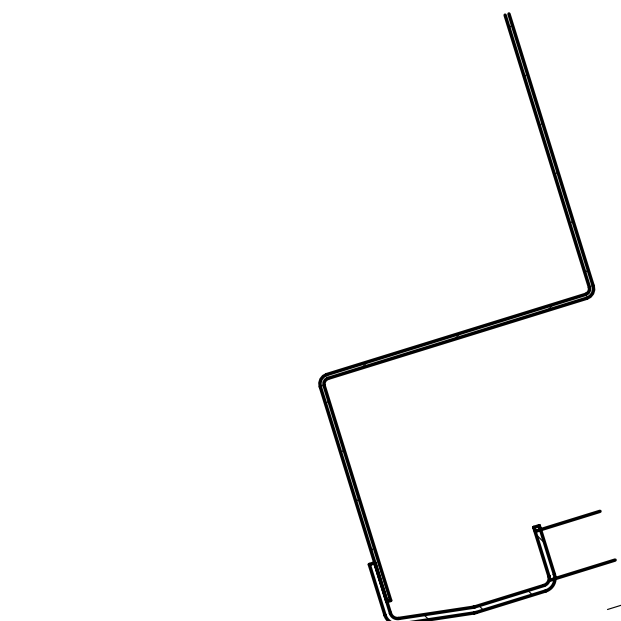
SECTION DA-DA



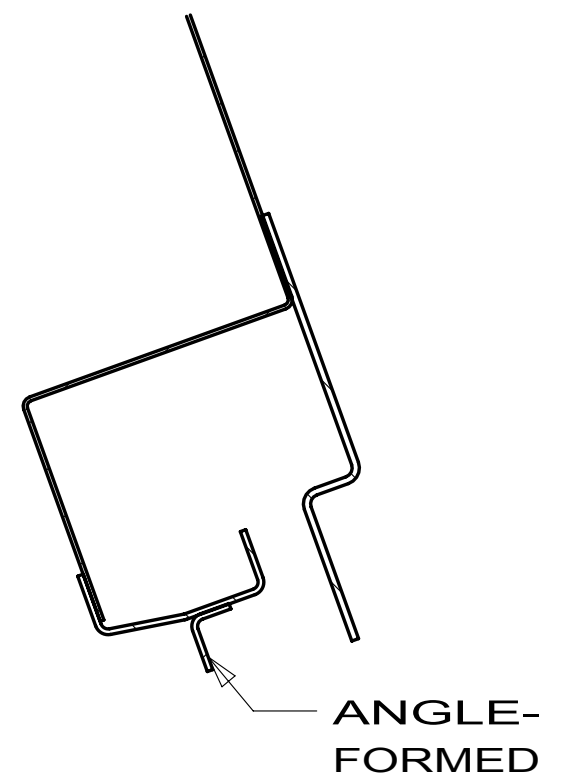
SECTION DG-DG



SECTION DF-DF



SECTION DH-DH



SECTION DJ-DJ

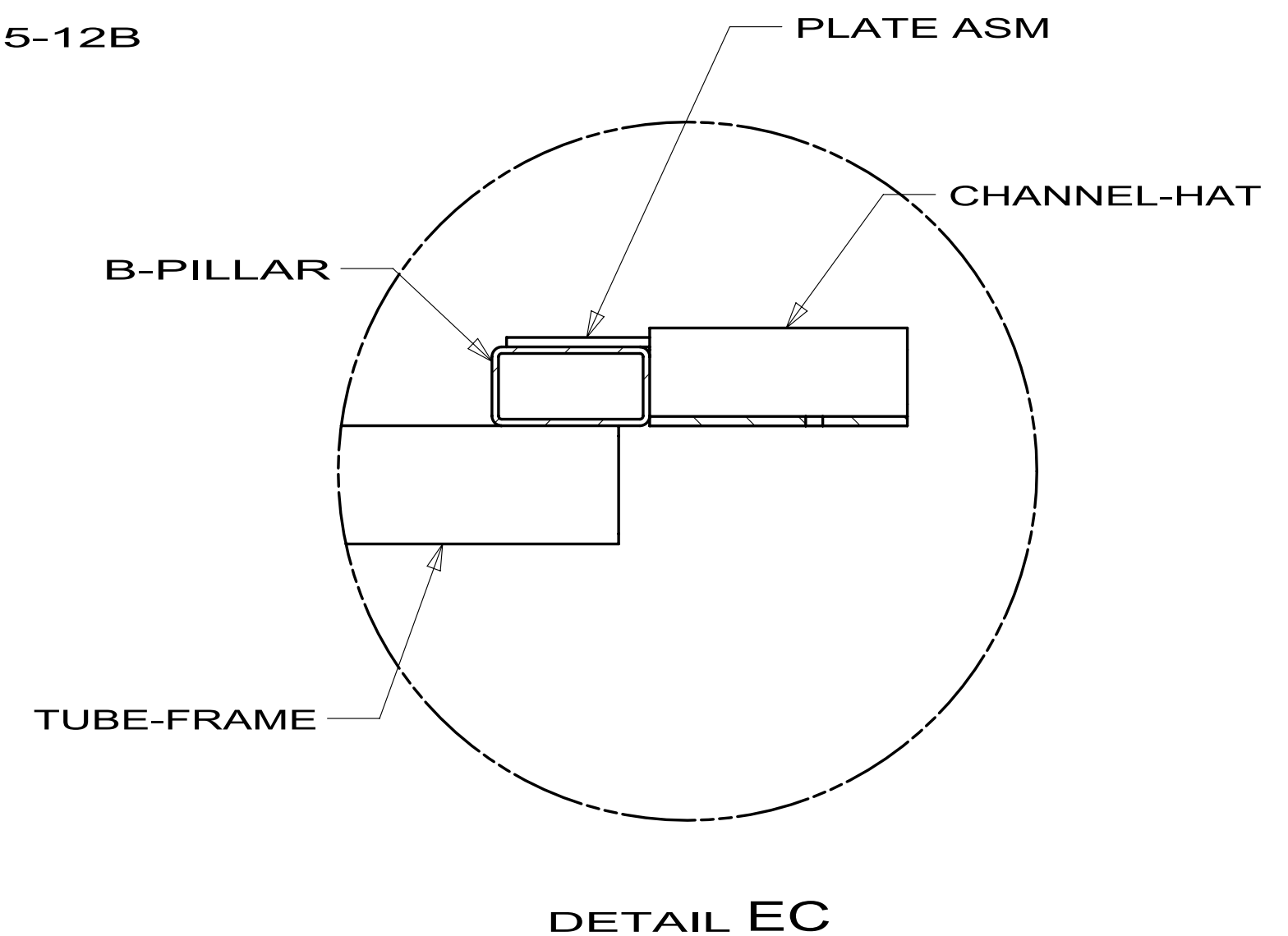
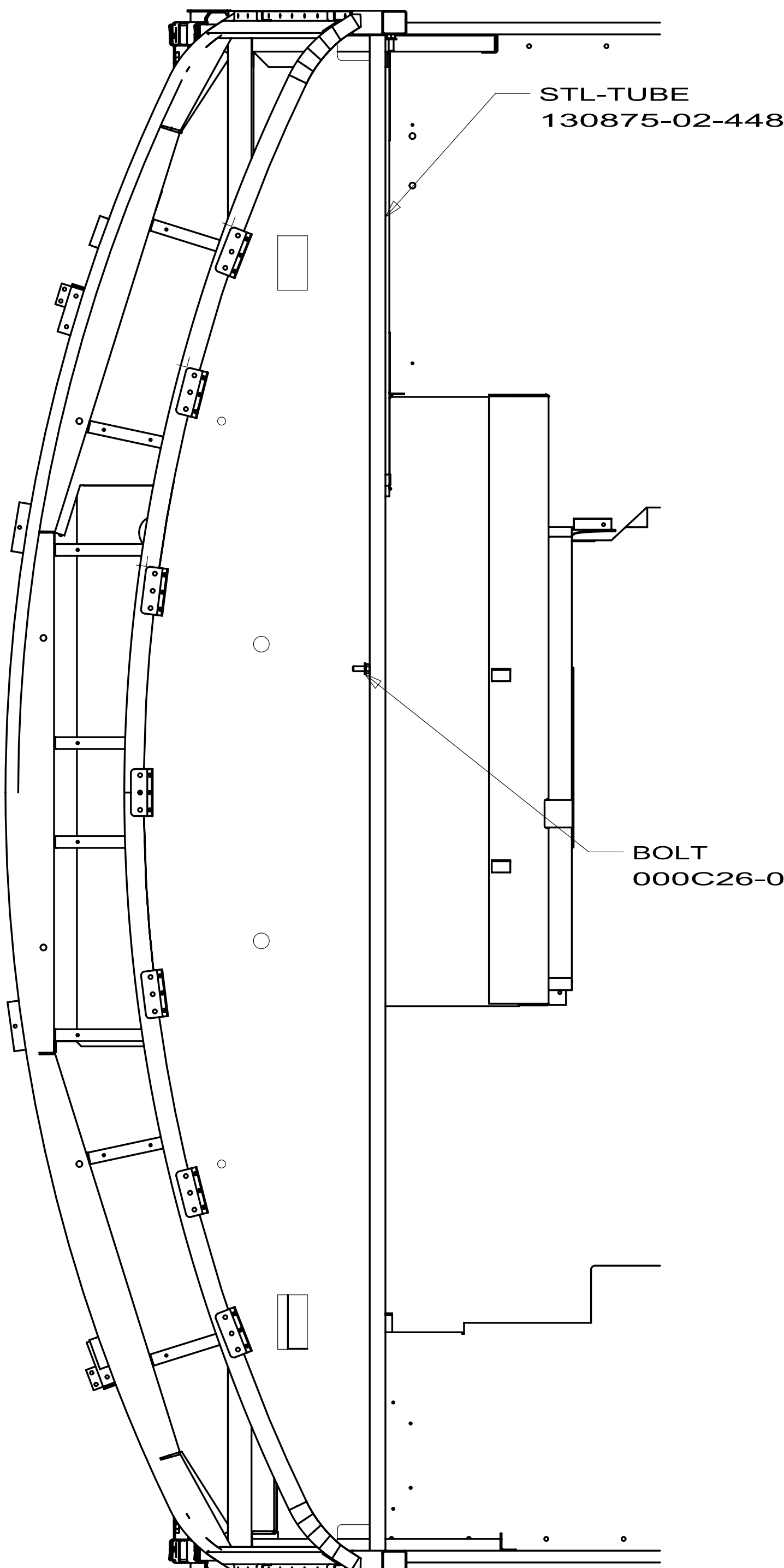
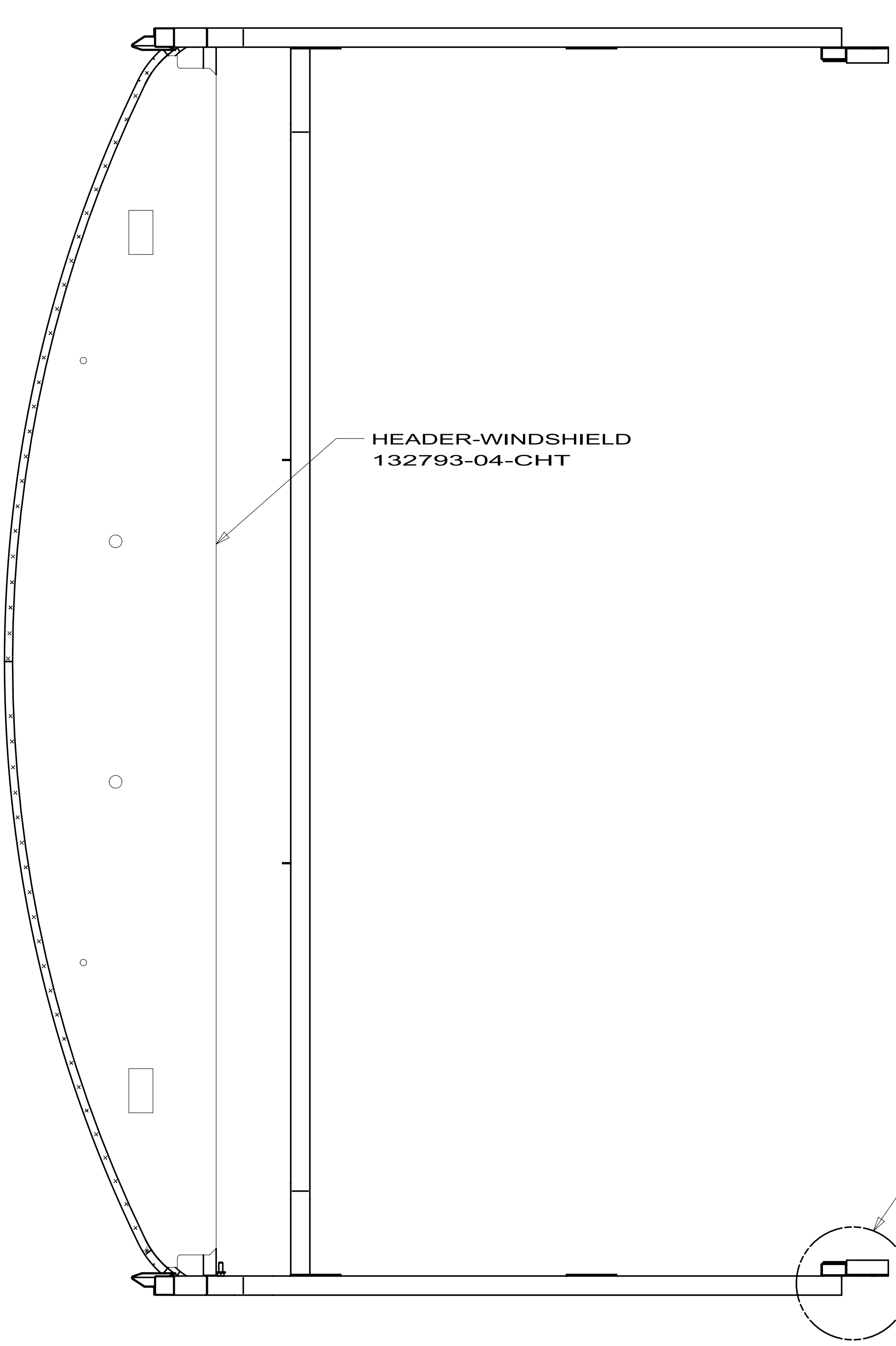
STRAP-DEFROSTER
137047-06-CHT (2)

STRAP-DEFROSTER
137047-05-CHT (2)

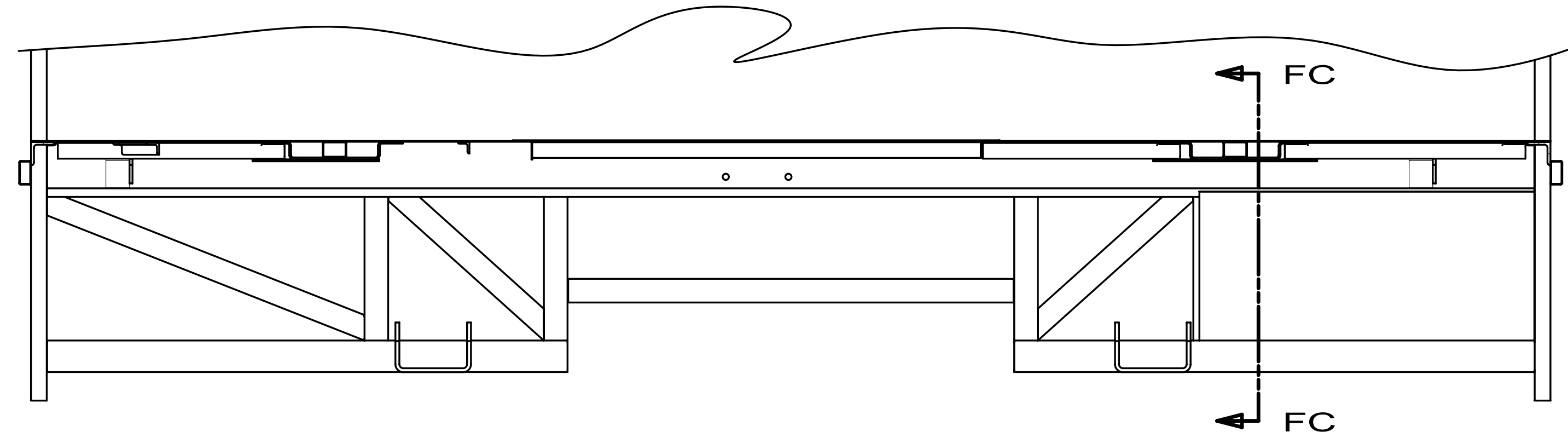
TOOLING HOLE

STRAP-DEFROSTER
137047-04-CHT (4)

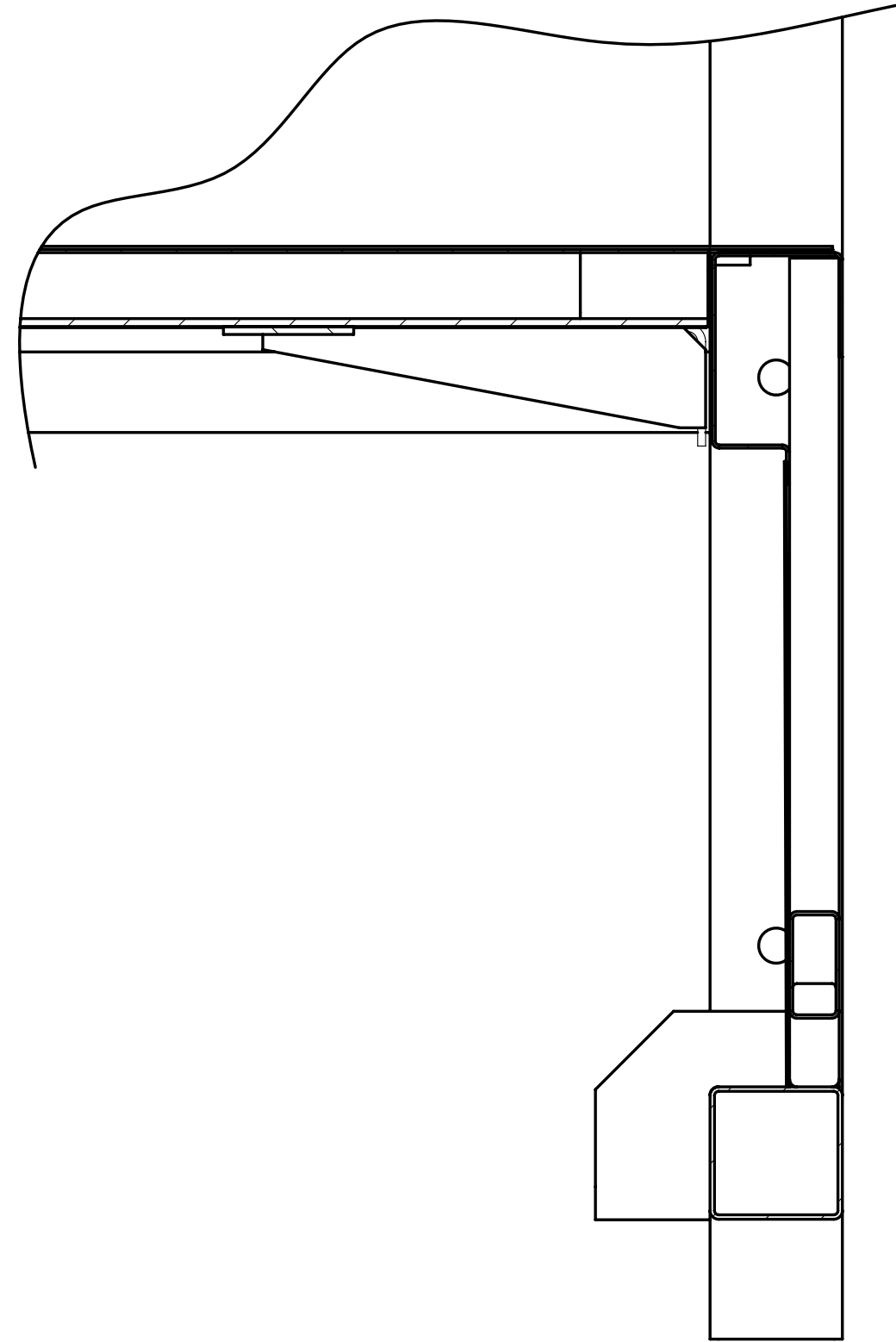
FIRST USED		
10 D-SERIES		
DO NOT SCALE DRAWING		
TITLE:		
FRONT END ASM		
SHEET 4	PART NO 173007	REV



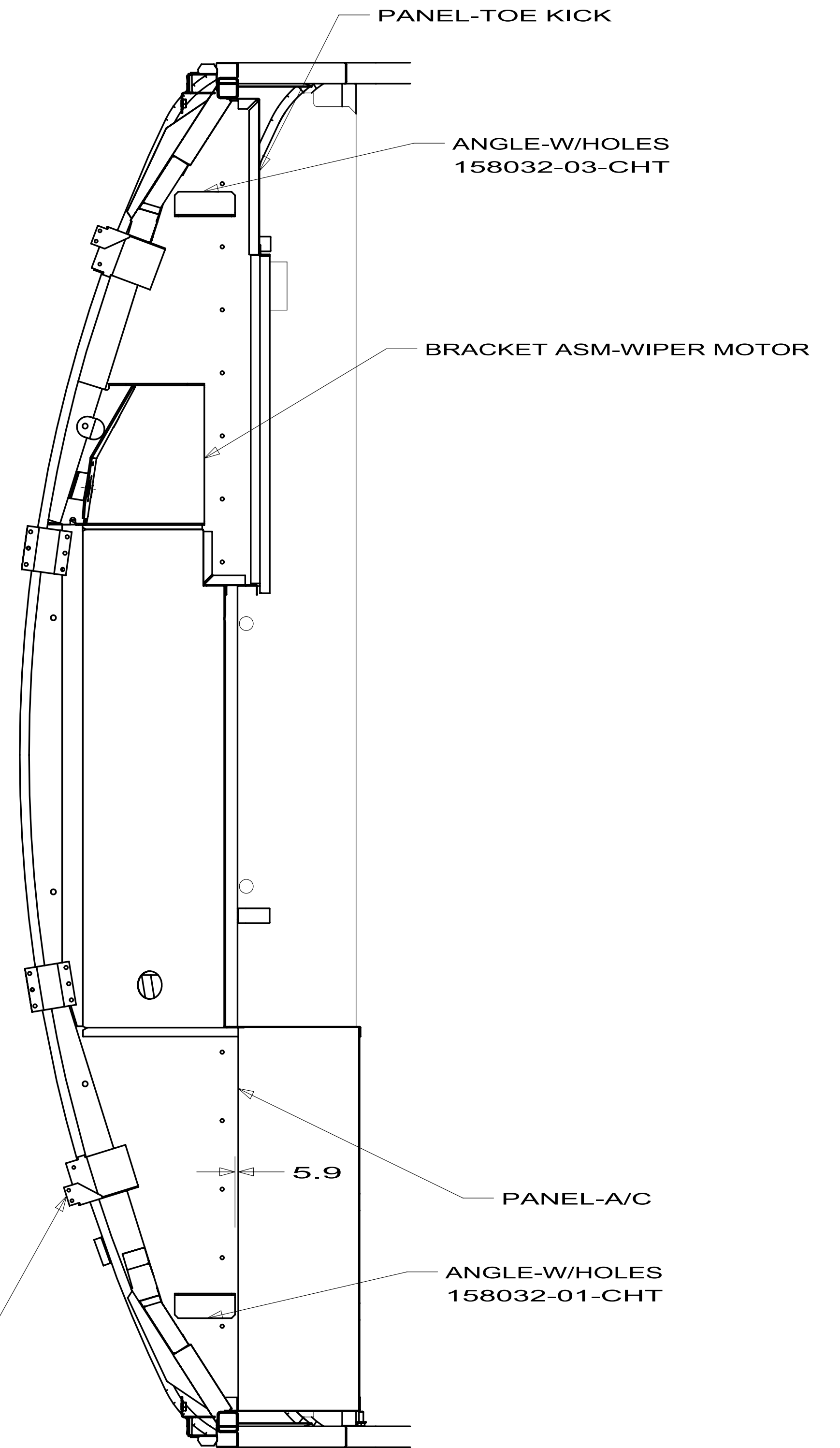
FIRST USED			10 D-SERIES		
			DO NOT SCALE DRAWING		
TITLE:			FRONT END ASM		
SHEET 5		PART NO	173007	REV	



SECTION FA-FA

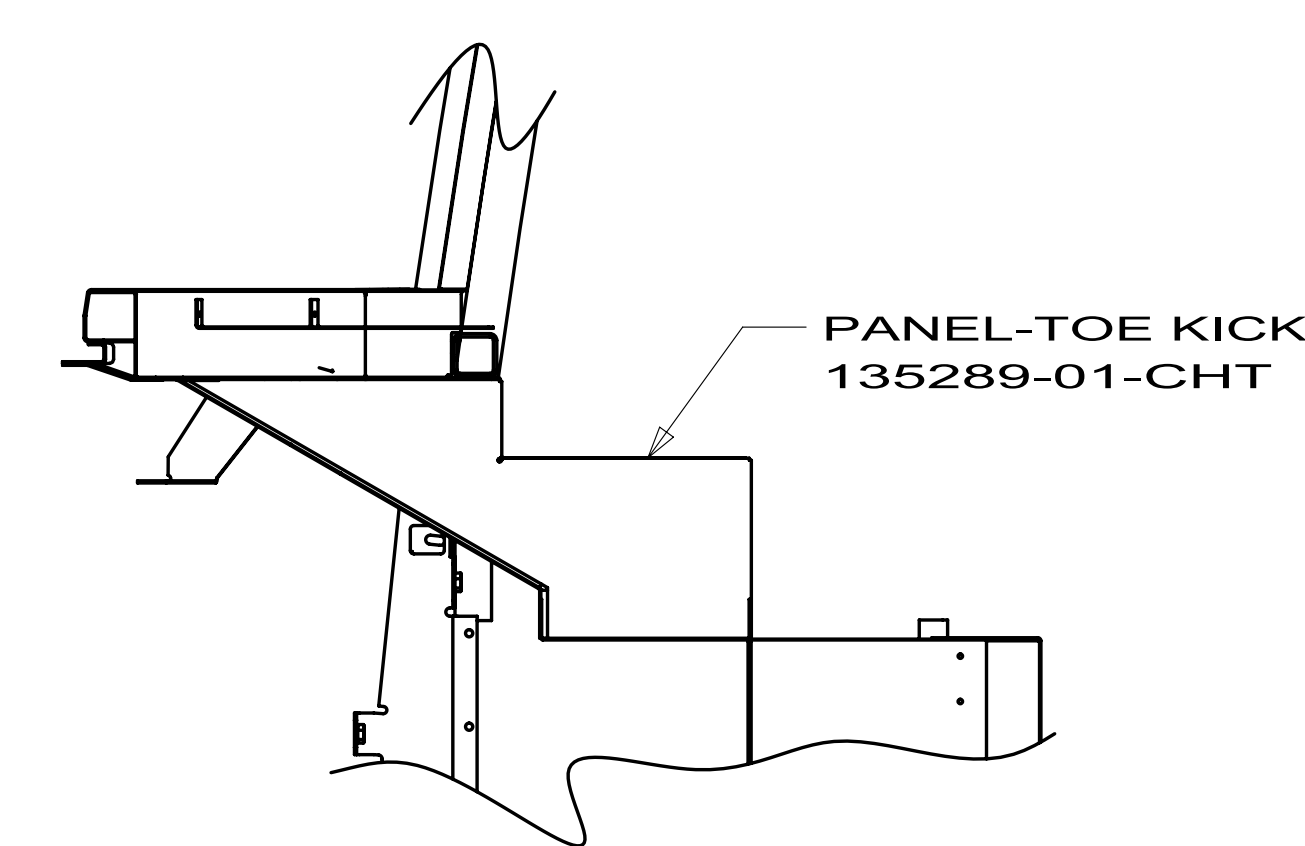
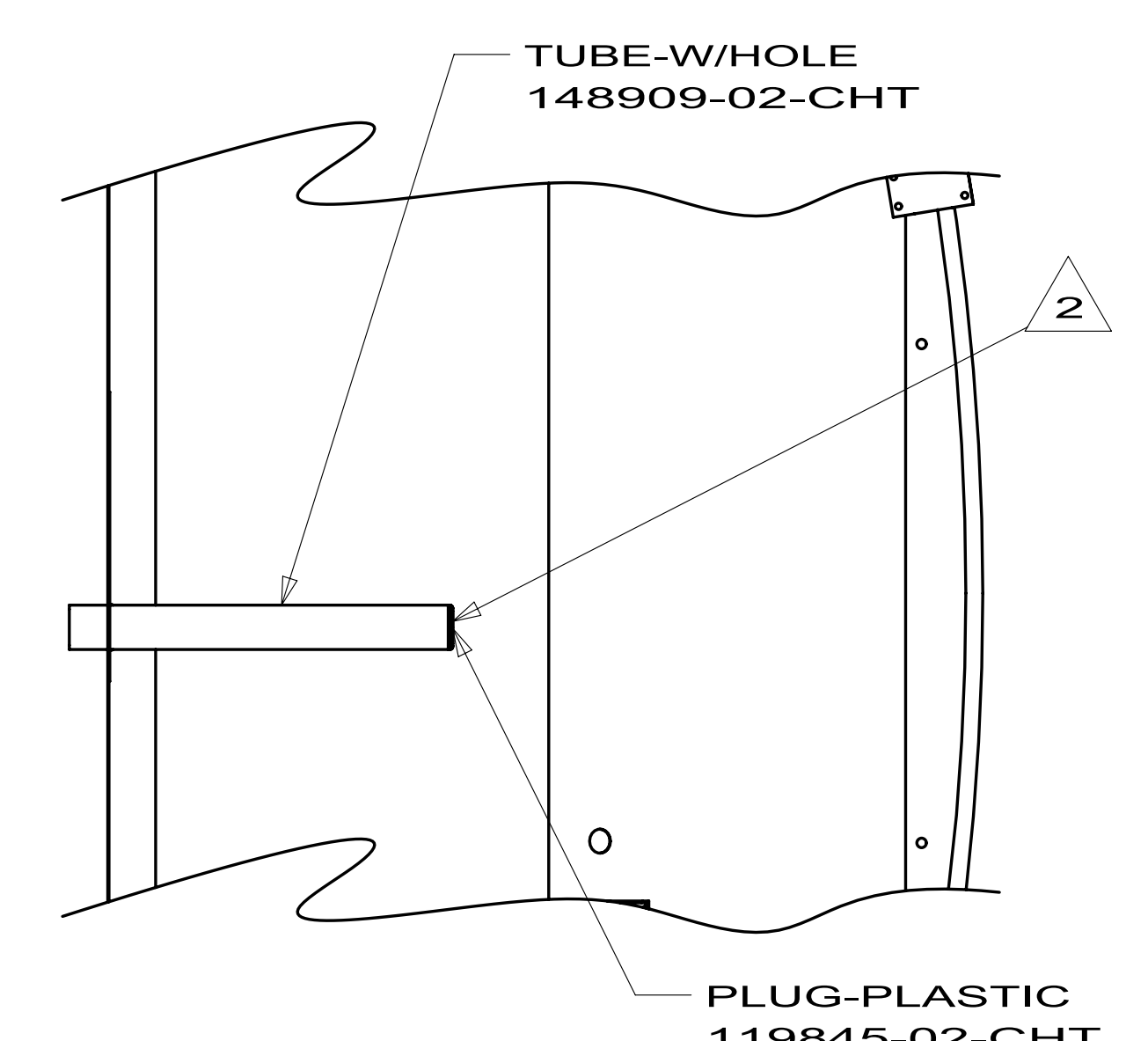
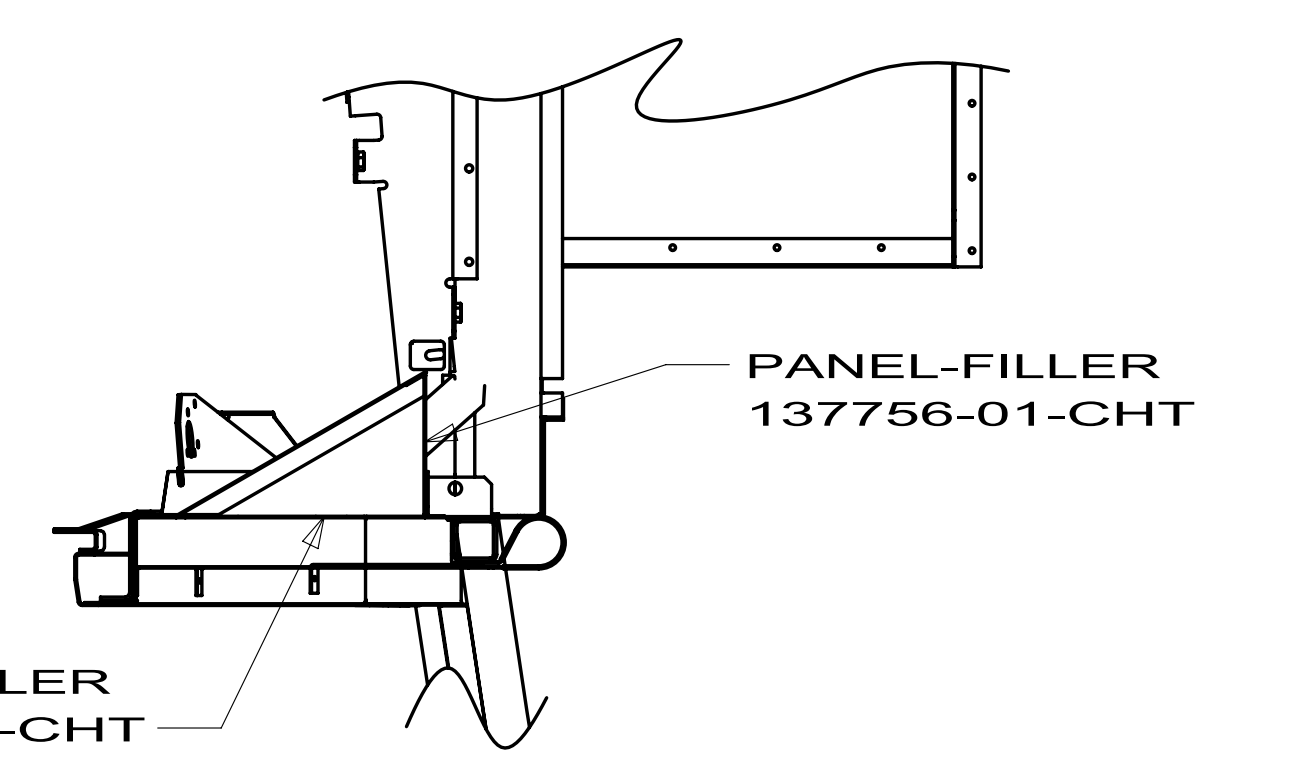
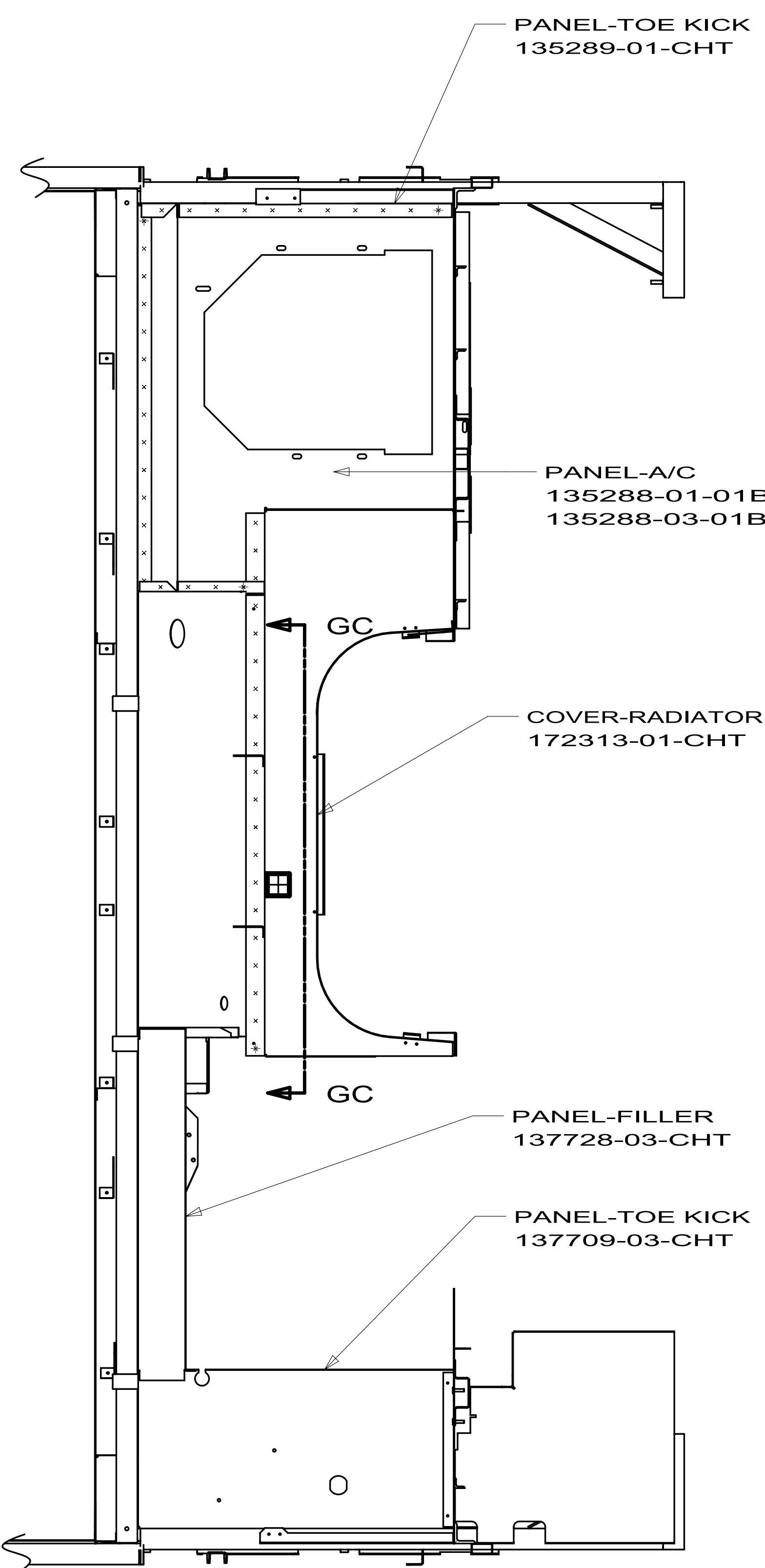
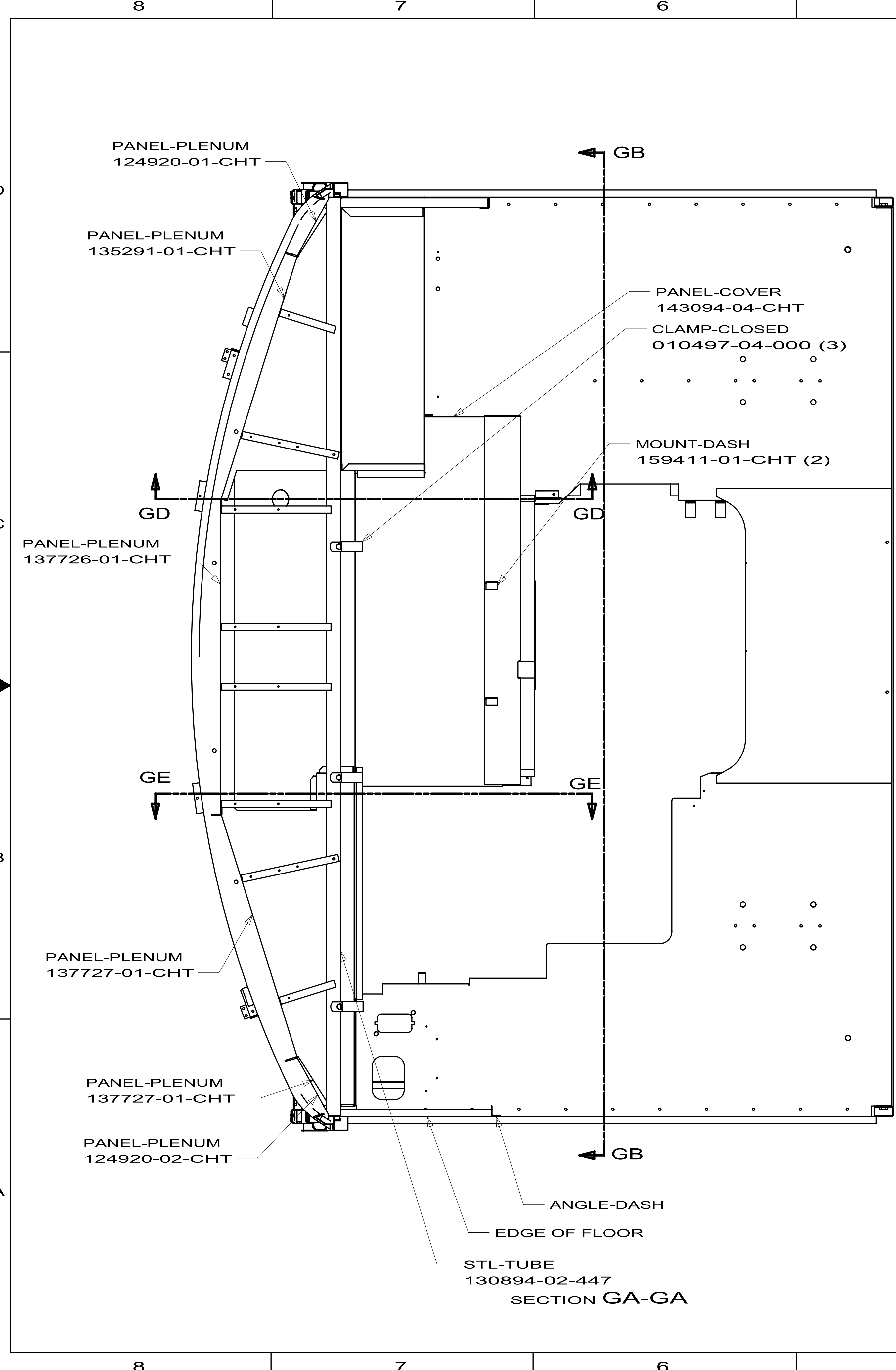


SECTION FC-FC



SECTION FB-FB

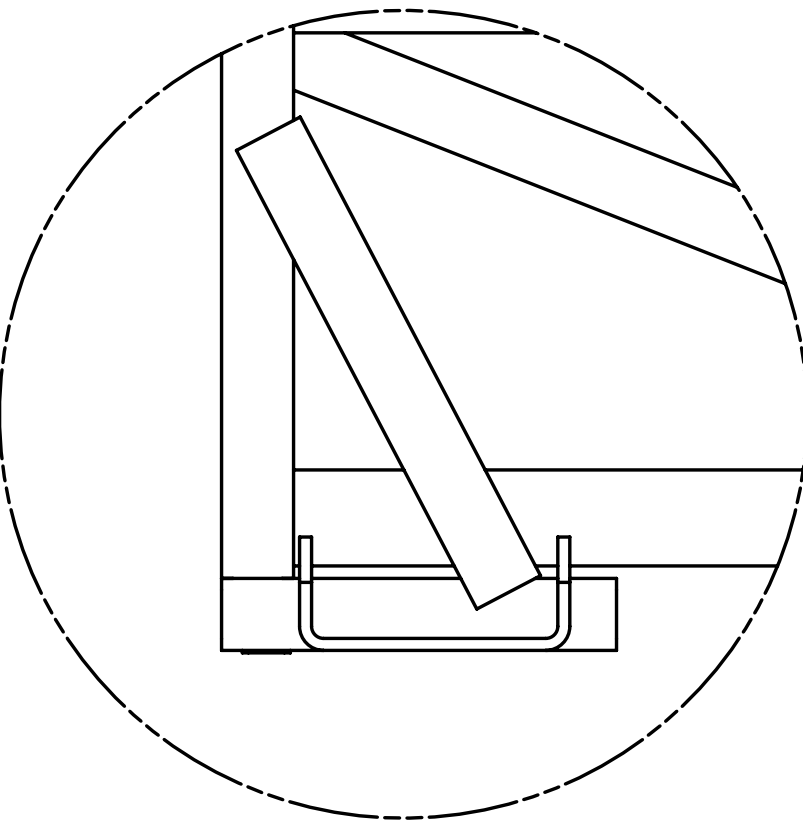
FIRST USED		
10 D-SERIES		
DO NOT SCALE DRAWING		
TITLE:		
FRONT END ASM		
SHEET 6	PART NO 173007	REV



SECTION GB-GB

SECTION GD-GD

FIRST USED		
10 D-SERIES		
DO NOT SCALE DRAWING		
TITLE:		
FRONT END ASM		
SHEET 7	PART NO 173007	REV



DETAIL AA

ANGLE-A PILLAR
166365-01-CHT(4)

GUSSET ASM-WINDSHIELD,SUPT,RH
164429-02-CHT

SUPPORT-WIPER,RH
158946-01-CHT

DETAIL AA

MOUNT-BODY,UPPER
165300-01-CHT (2)

5. SEAL W/SEALANT 110744-03-000
AFTER E-COAT.

4. HOLES MUST ALIGN TO ALLOW
FREE PASSAGE OF A #10 SCREW.

3. 7.13 DIA HOLE MUST LINE UP
WITH HOLE IN B-PILLAR.

2. CLEAN AND FINISH SURFACE PER ES0051, CLASS xxxx.

1. REMOVE OLD BUSHING AND SCREW 165300-01-000.

PANEL-A/C HEATER,SUPPORT
135288-03-CHT(AFTER 02-03-10)

STRAP-SUPPORT
125201-05-CHT (2)

TOP OF CHASSIS RAIL

DATUM

CENTERLINE
OF VEHICLE

SUPPORT ASM-TV
143632-07-CHT 2

BRACKET-ROOF CAP
124454-01-CHT (7)

CHANNEL-SUPPORT,FRONT END
117462-05-CHT(2)

BRACKET ASM-WIPER MOTOR
160712-05-CHT

ANGLE-FORMED
126289-65-CHT(2)

GUSSET ASM-WINDSHIELD,SUPT,LH
164429-01-CHT

SUPPORT-WIPER,LH
158946-02-CHT

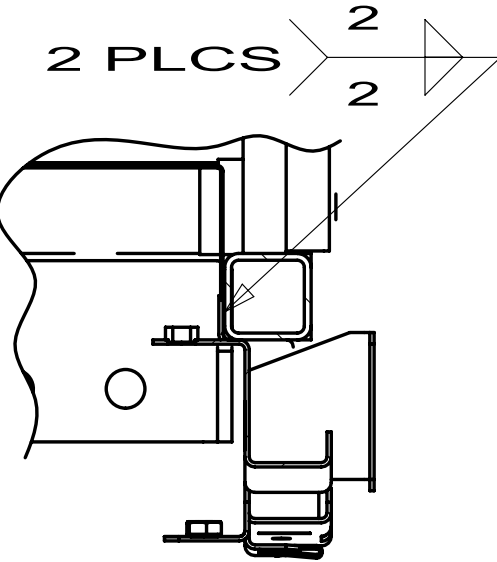
DATUM

STL-TUBE
130894-00-945 (2)

STL-ANGLE
130922-00-274 (2)

TUBE-SUPPORT
138785-02-CHT (2)

SHIELD-SPLASH
118592-01-CHT



SECTION AB-AB

WORKHORSE



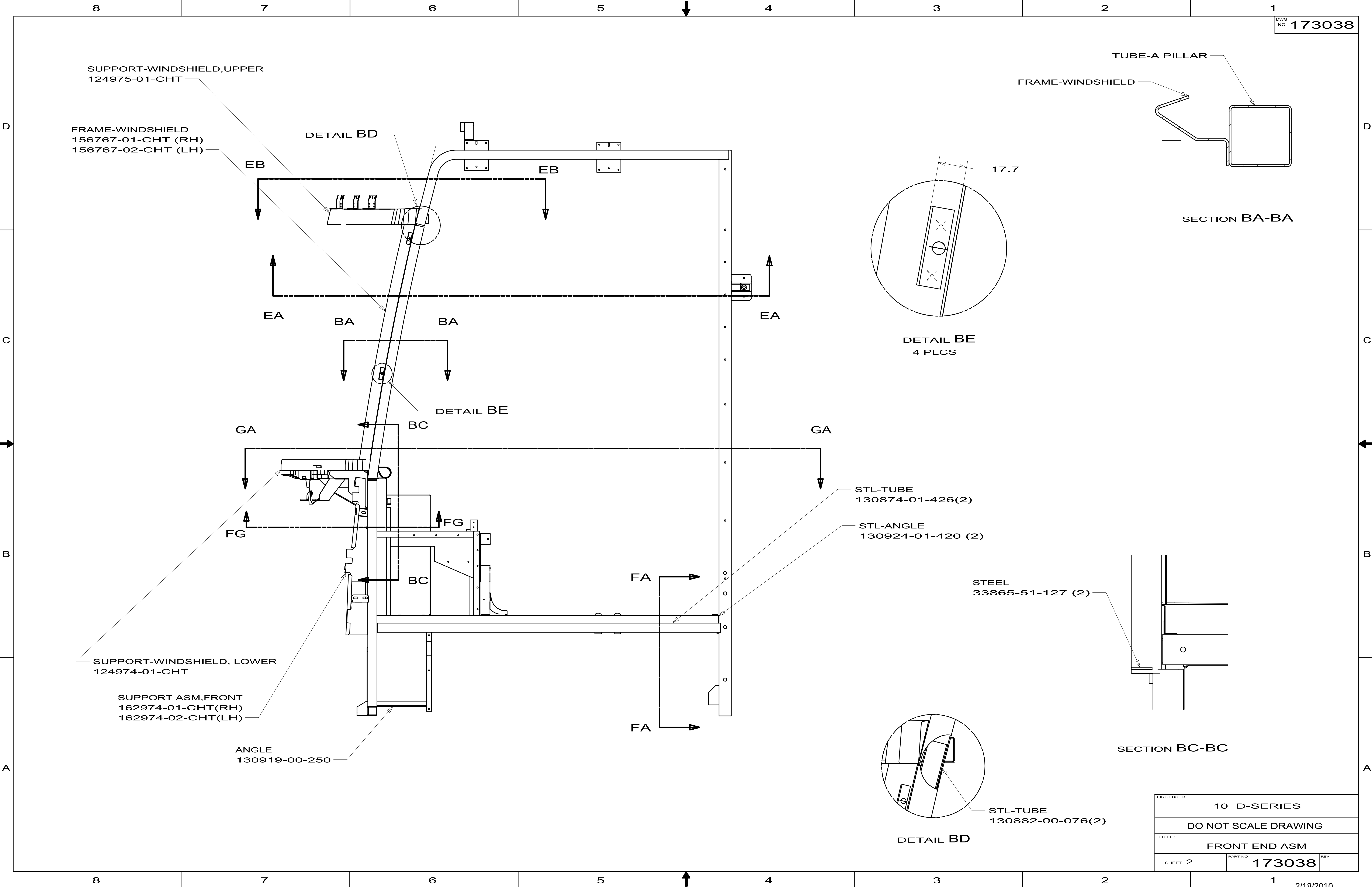
COPYRIGHT 2010
WINNEBAGO
INDUSTRIES, INC.

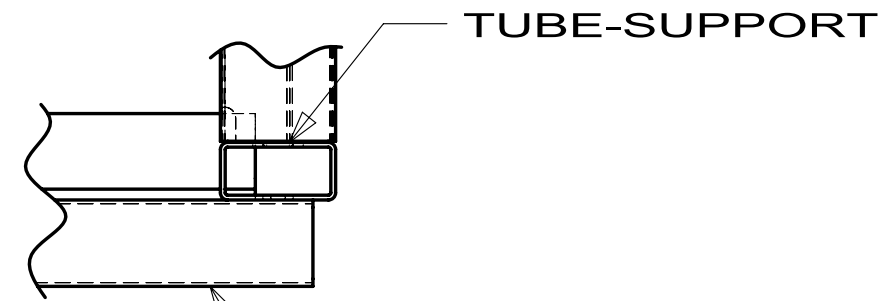
DFTR	ORIG. DATE
CHRR	
P.E.	ALL DIMENSIONS ARE IN MILLIMETERS
M.E.	FIRST USED
DSNR	10 D-SERIES
UNSPECIFIED TOLERANCES ARE:	
WHOLE DIM (X)	: 3
ONE-PLACE (X.X)	: 1.5
TWO-PLACE (X.XX)	: 0.50
ANGLE	: 1°
THIRD ANGLE PROJECTION	WEIGHT: 370.8 LBS

DO NOT SCALE DRAWING

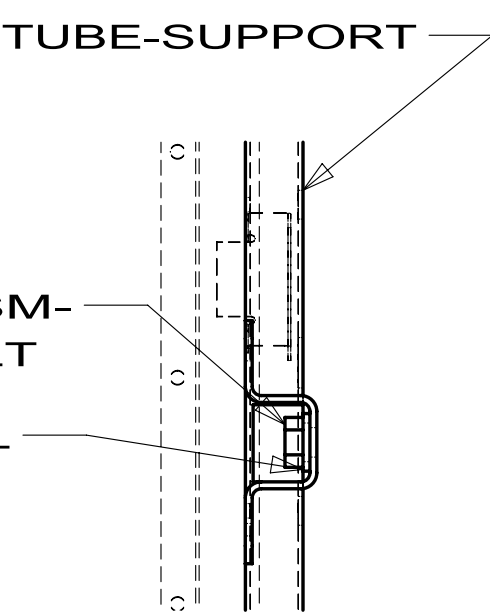
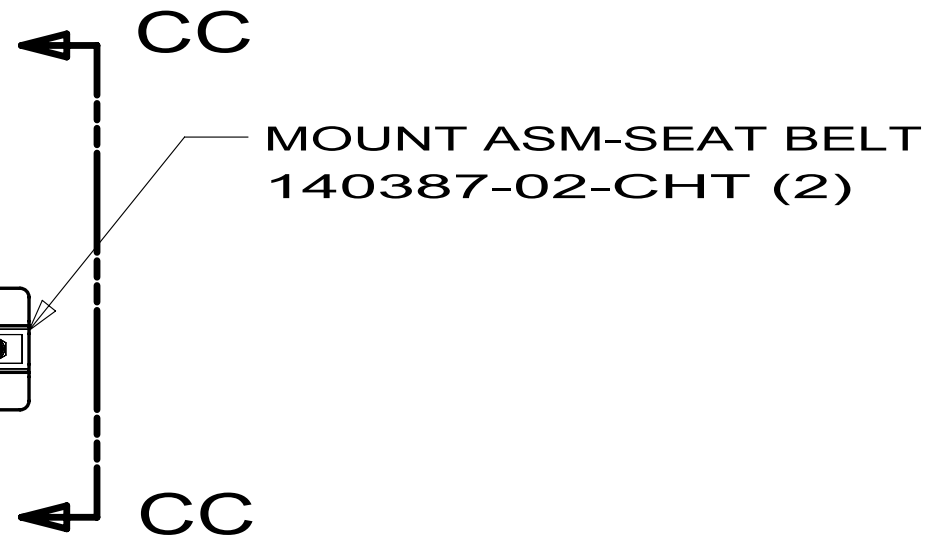
TITLE:	
FRONT END ASM	
SHEET 1 OF 7	PART NO 173038

SEE CHART
FOR COLOR VARIATIONS
OF THIS PART



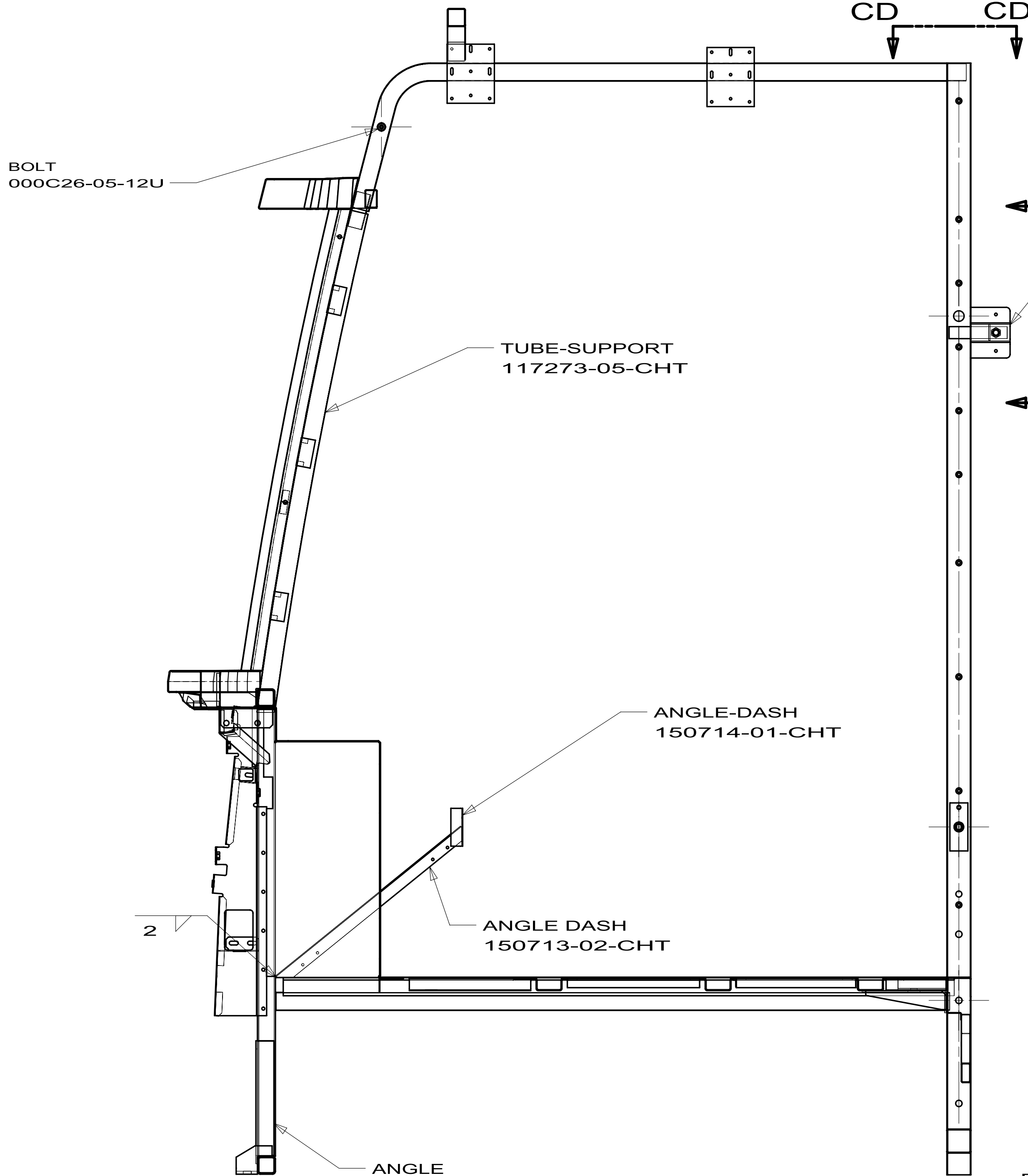


VIEW CD-CD
2 PLCS

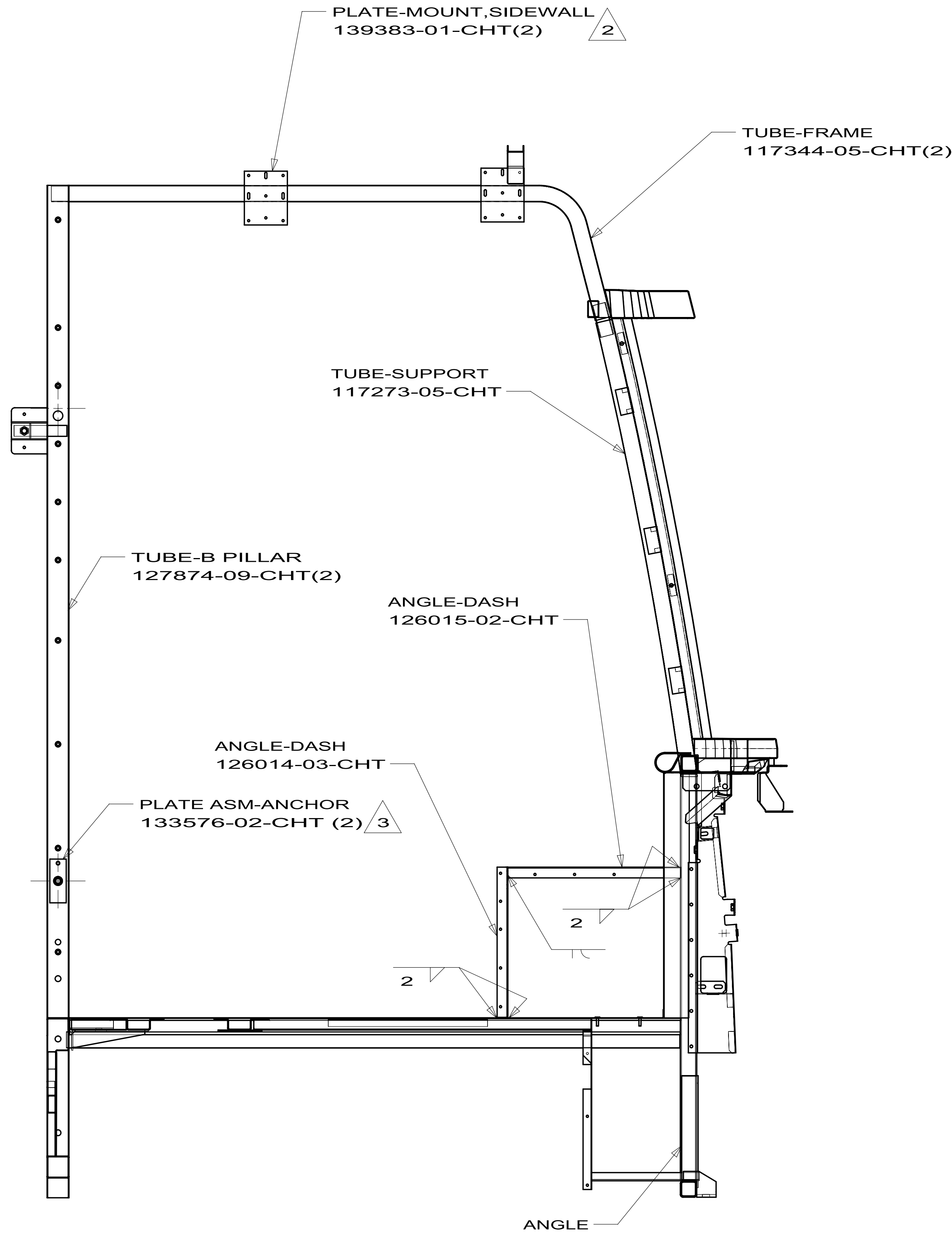


VIEW CC-CC
2 PLCS

BACKING PLATE WILL
BE FLUSH WITH
INSIDE SURFACE OF
SUPPORT TUBE



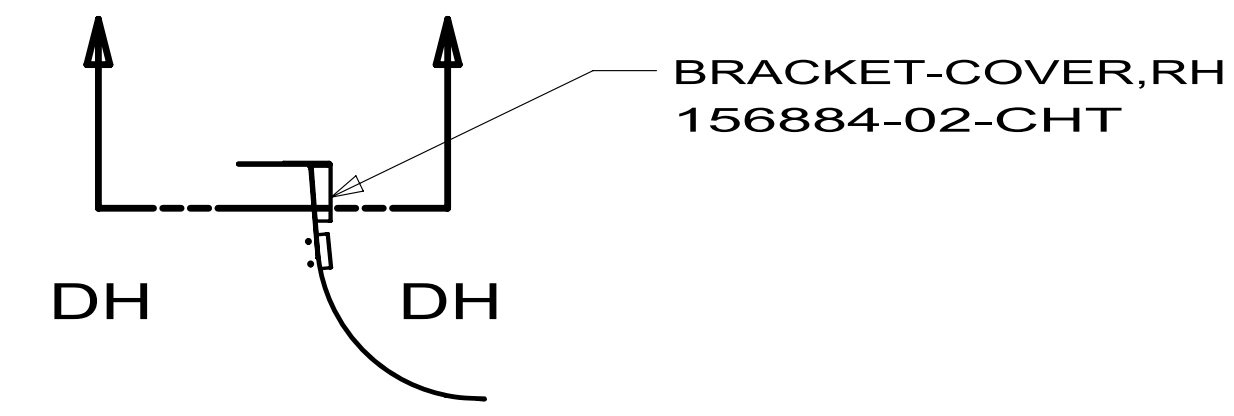
SECTION CA-CA



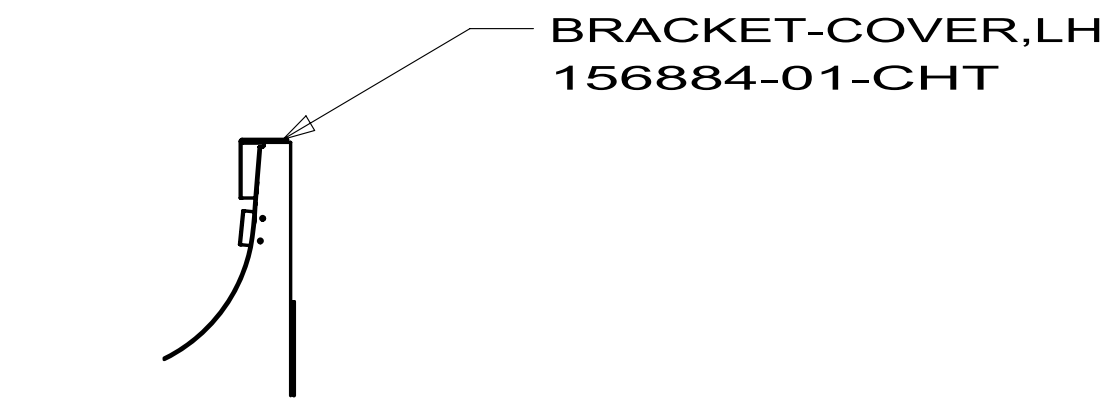
SECTION CB-CB

FIRST USED		
10 D-SERIES		
DO NOT SCALE DRAWING		
TITLE:		
FRONT END ASM		
SHEET 3	PART NO 173038	REV

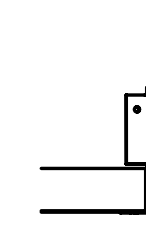
LAMP
10497-04-000 (2)



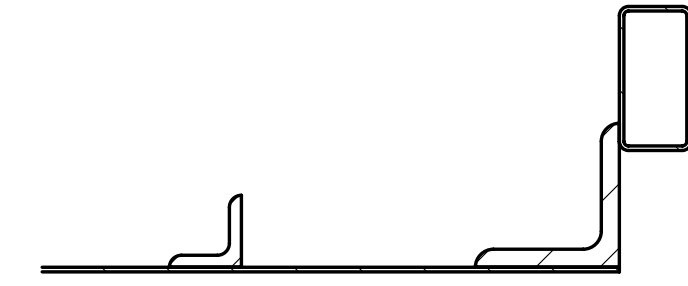
SECTION DF-DF



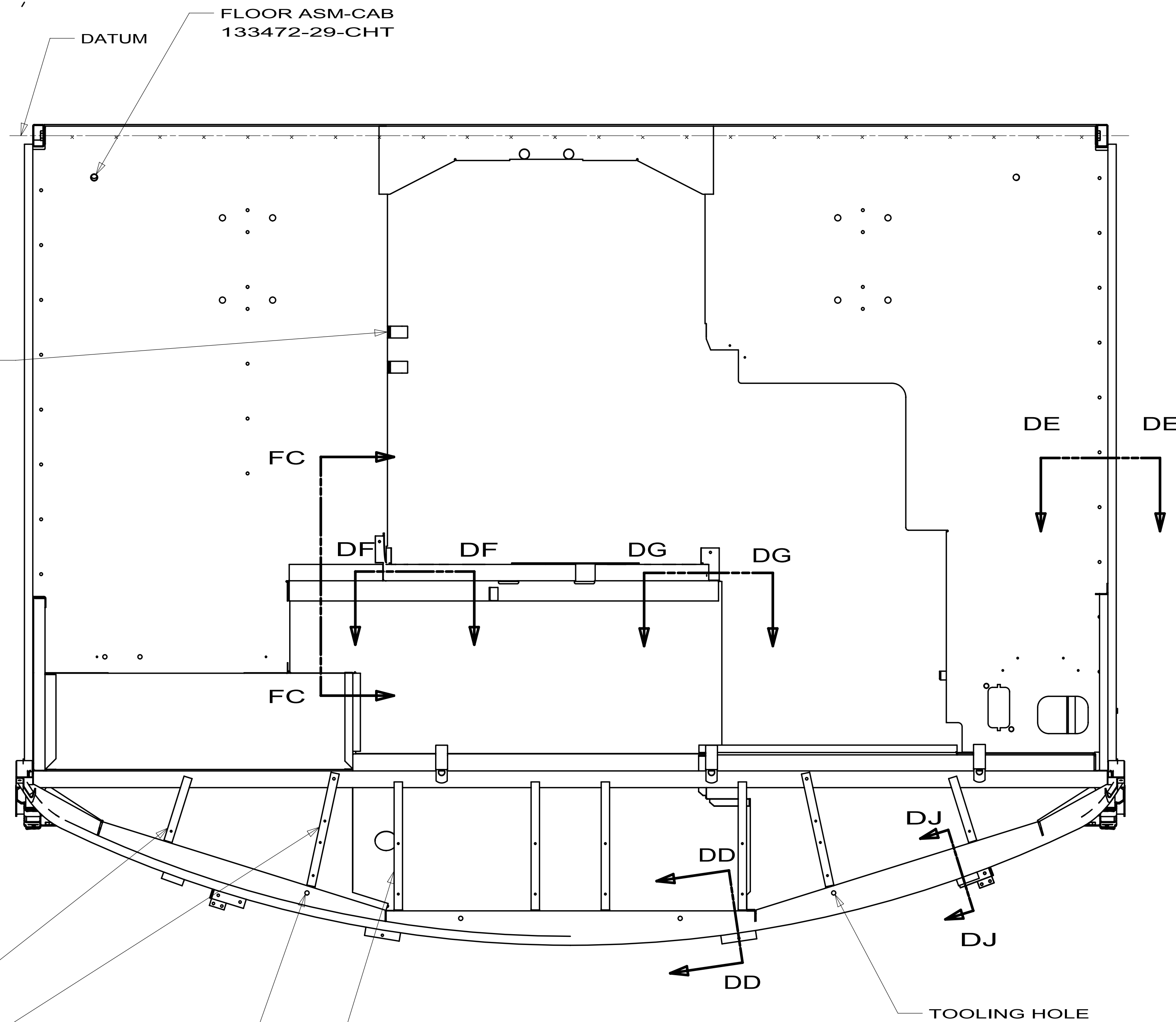
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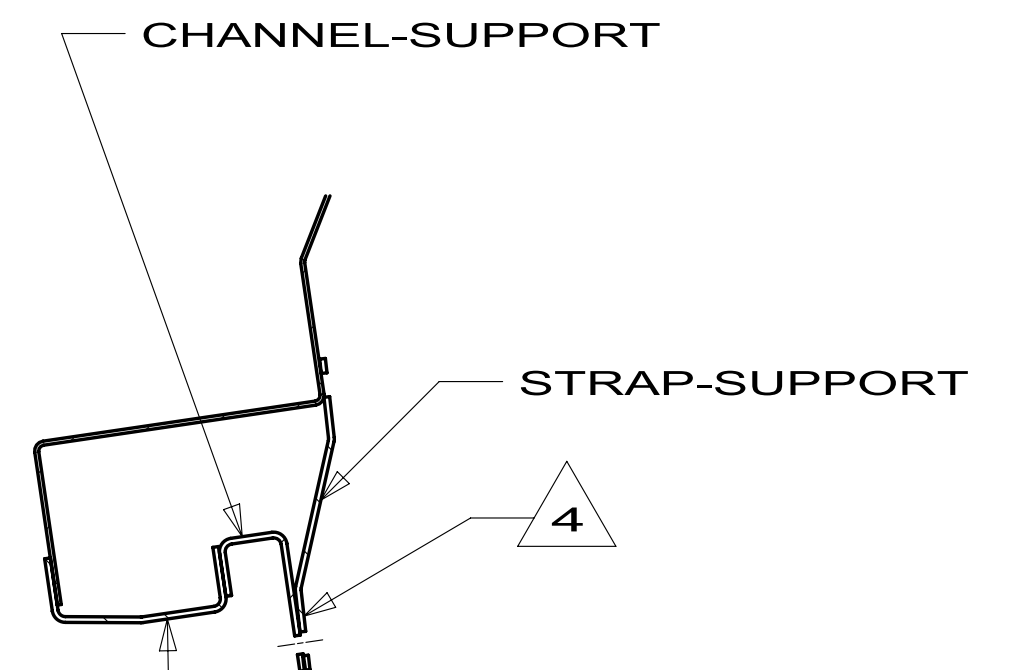
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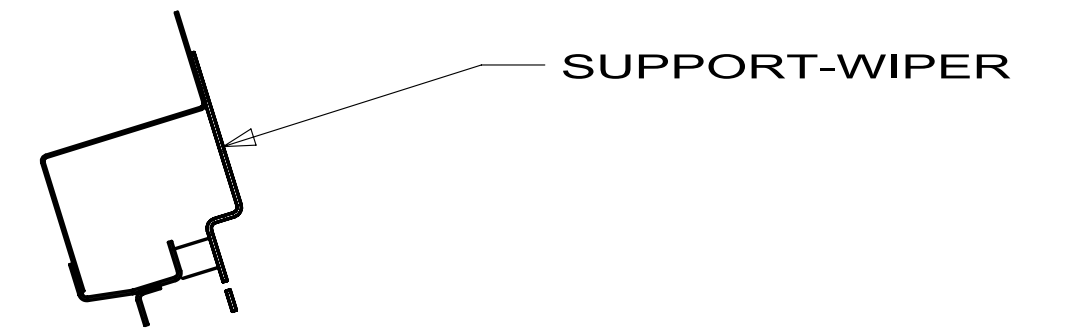
SECTION DE-DE



SECTION DB-DB

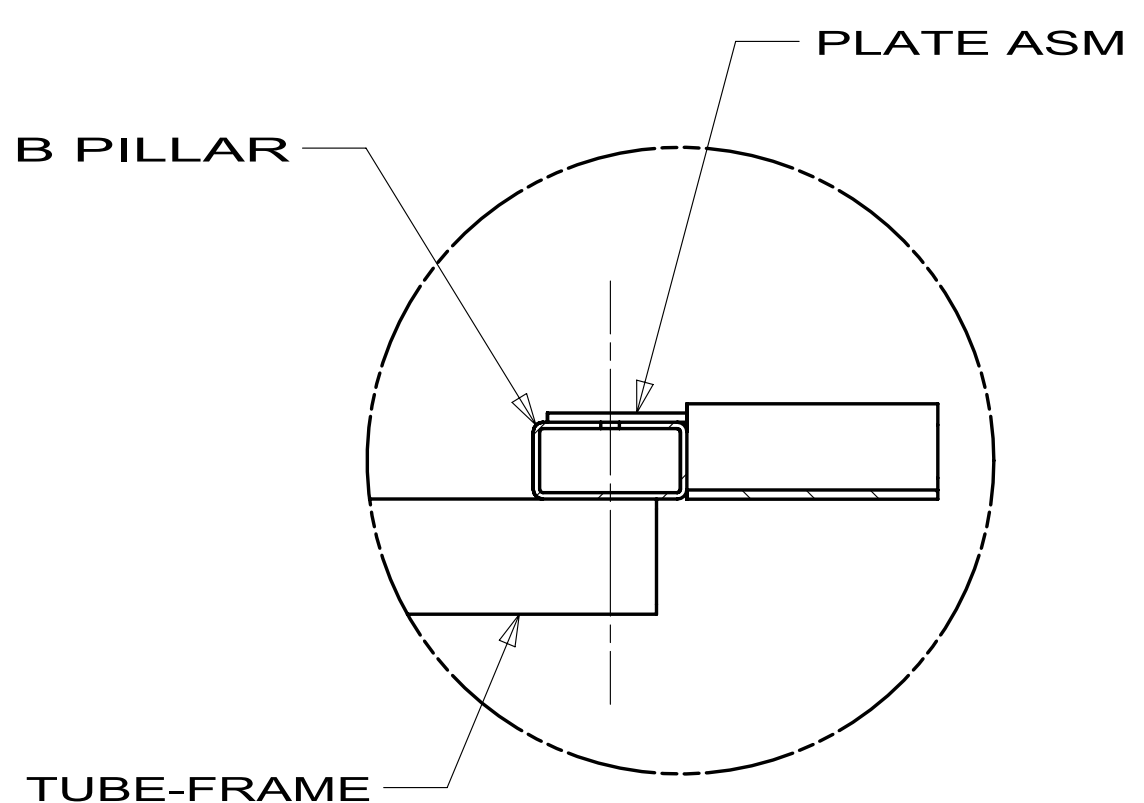
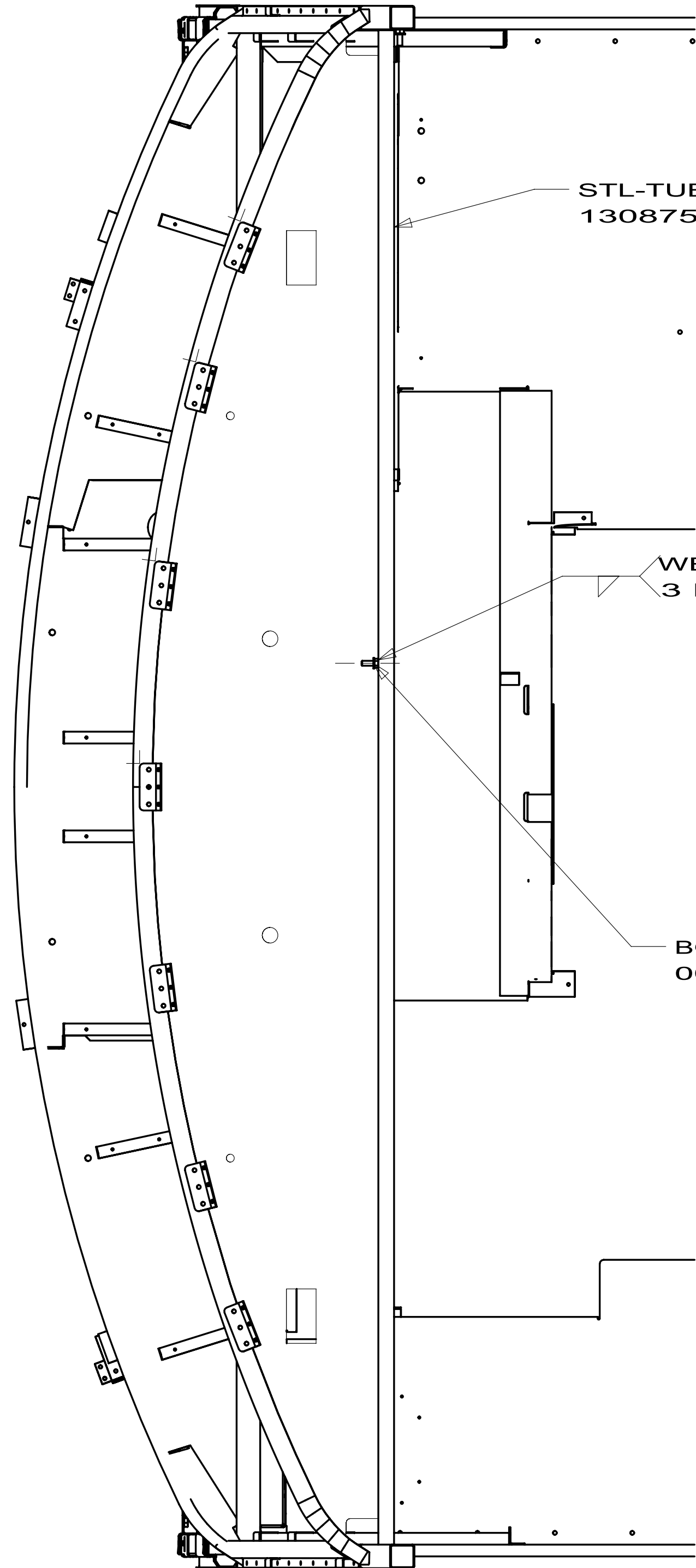
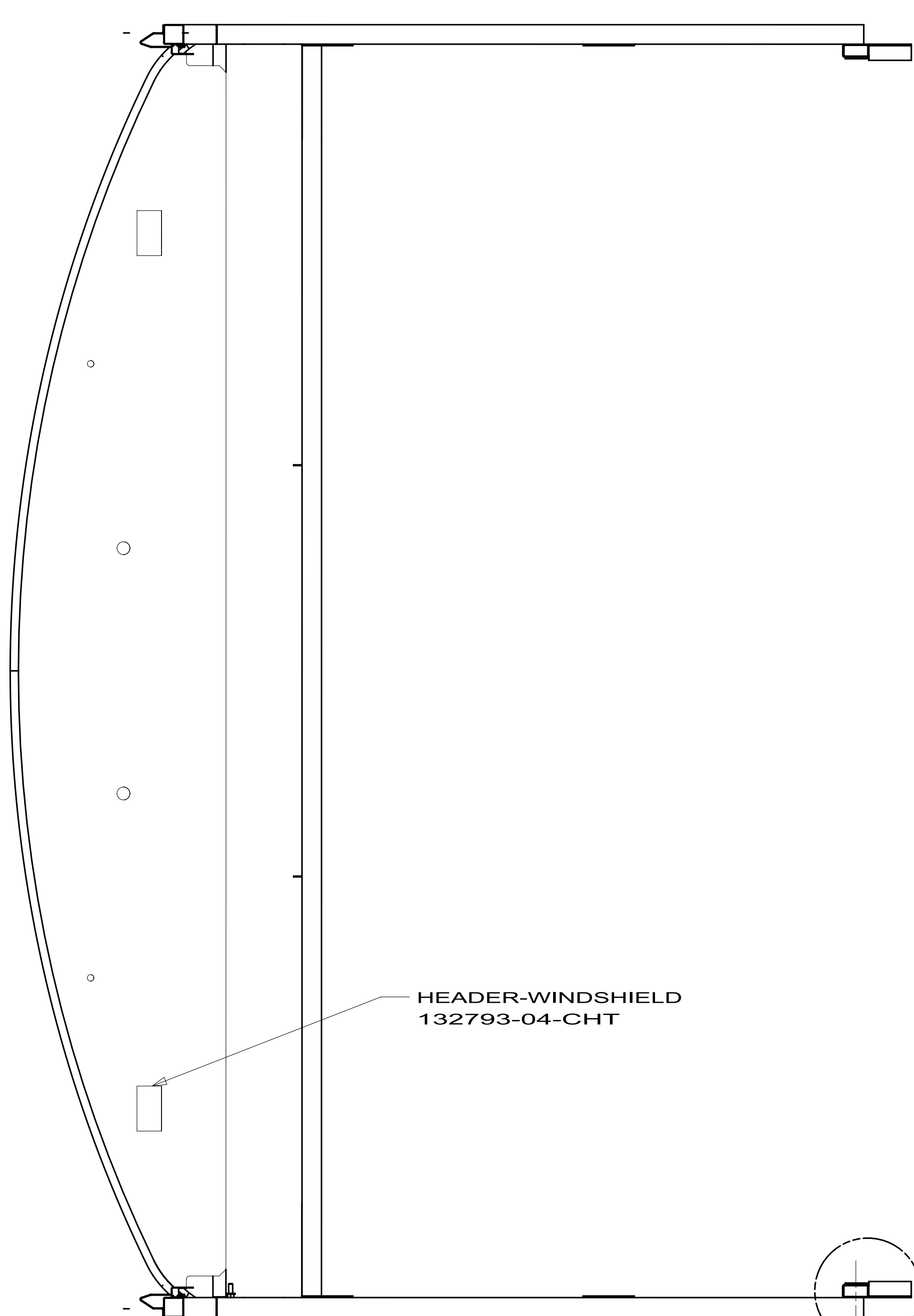


SECTION DD-DD

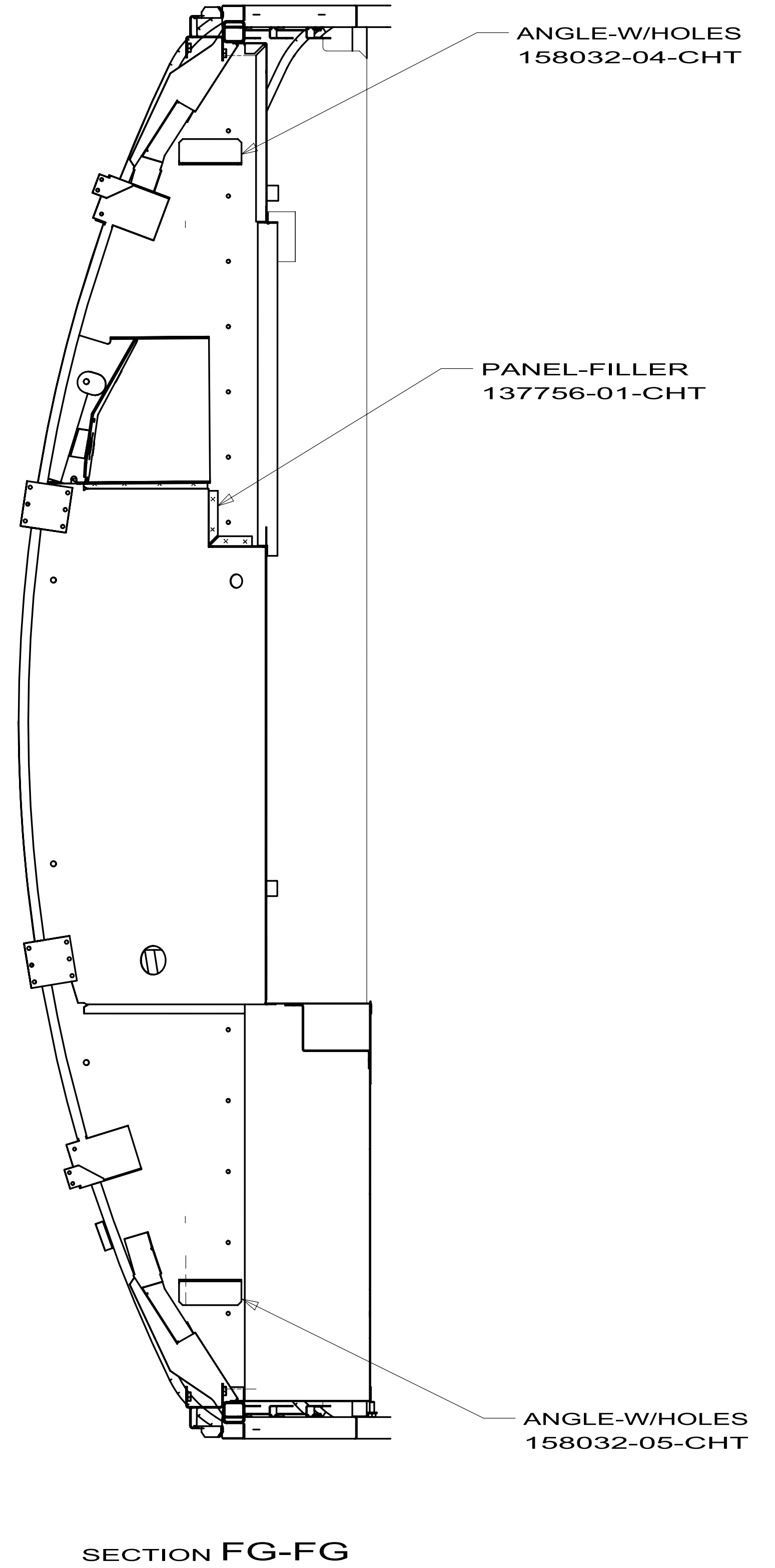
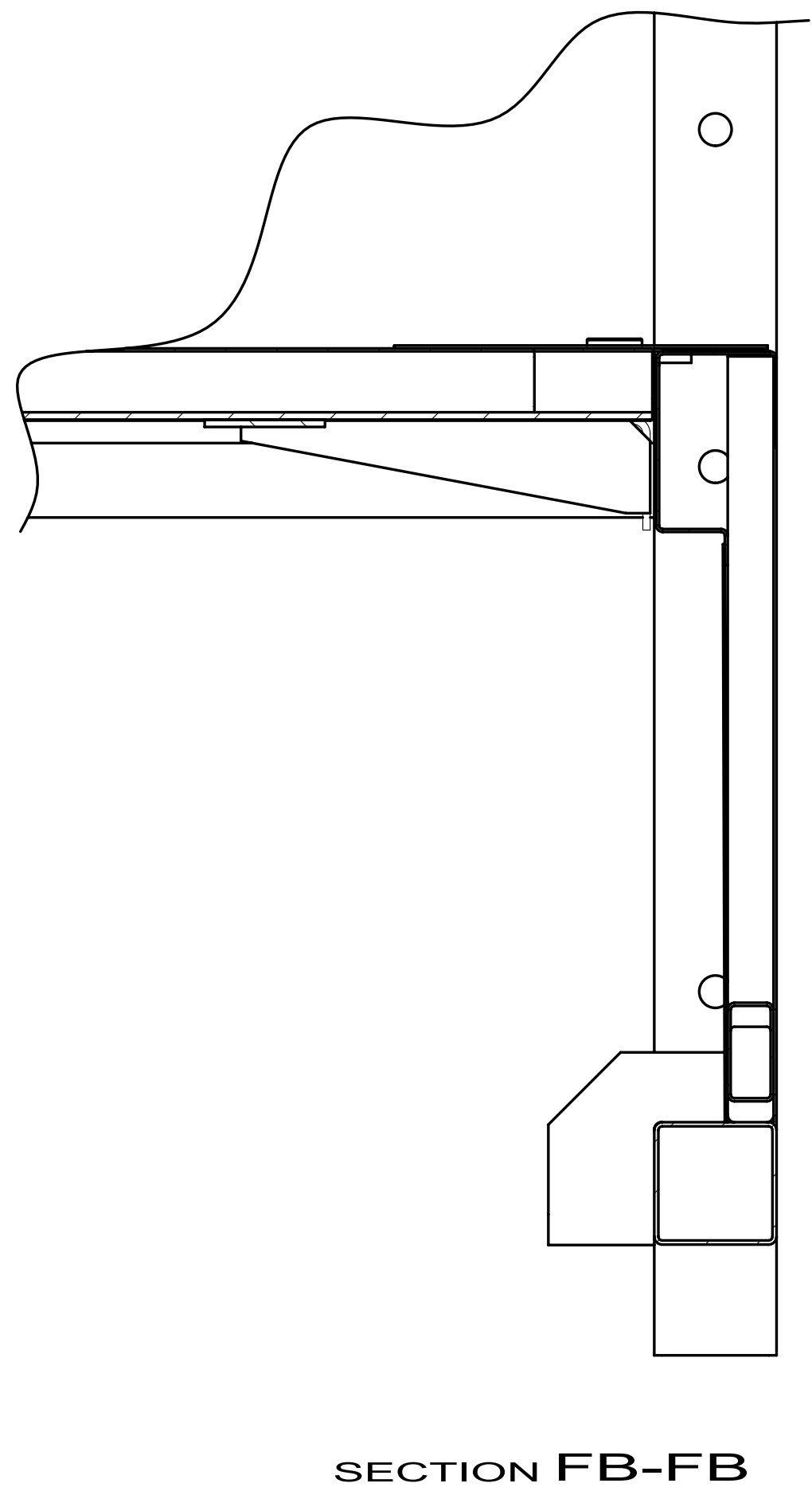
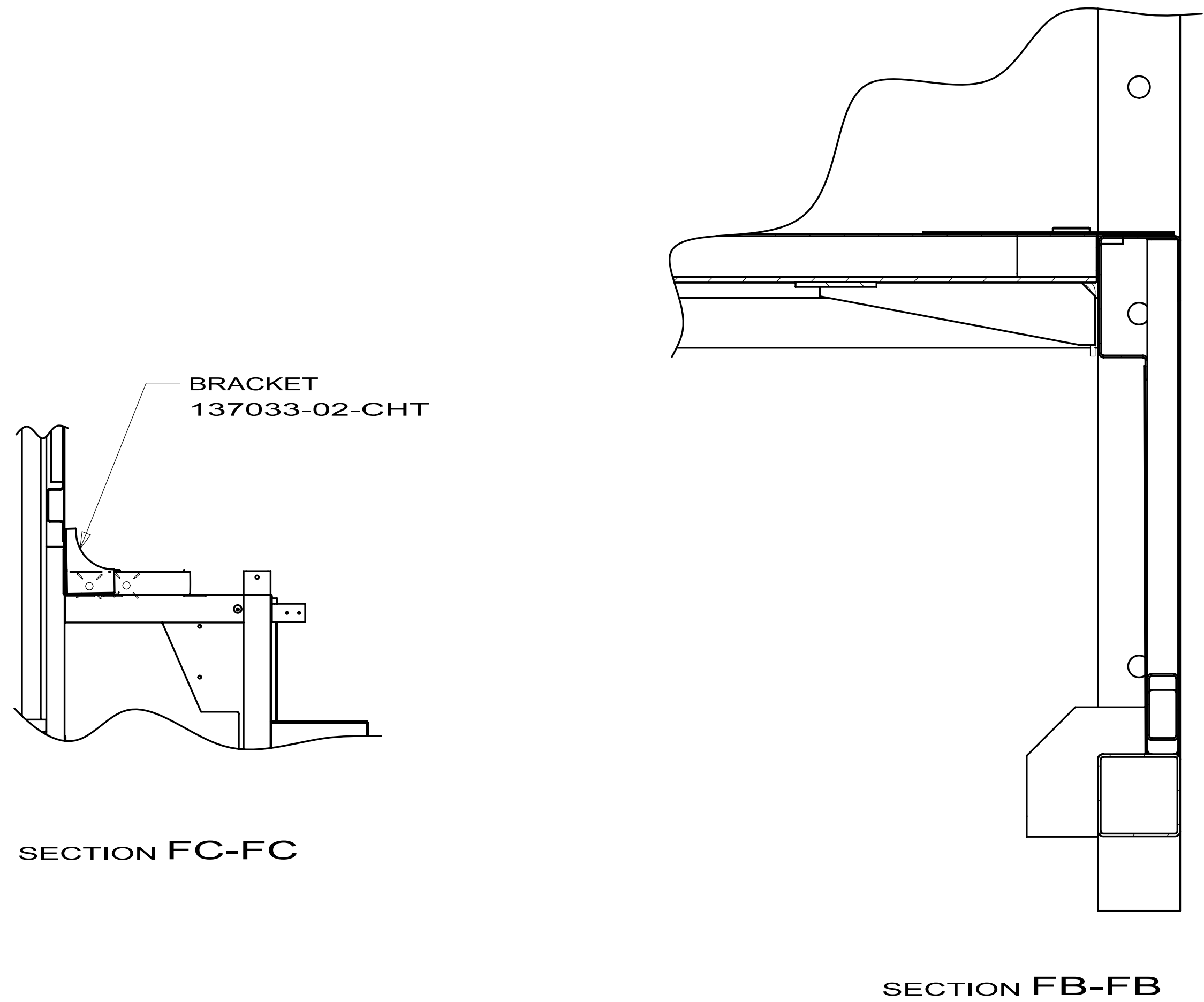
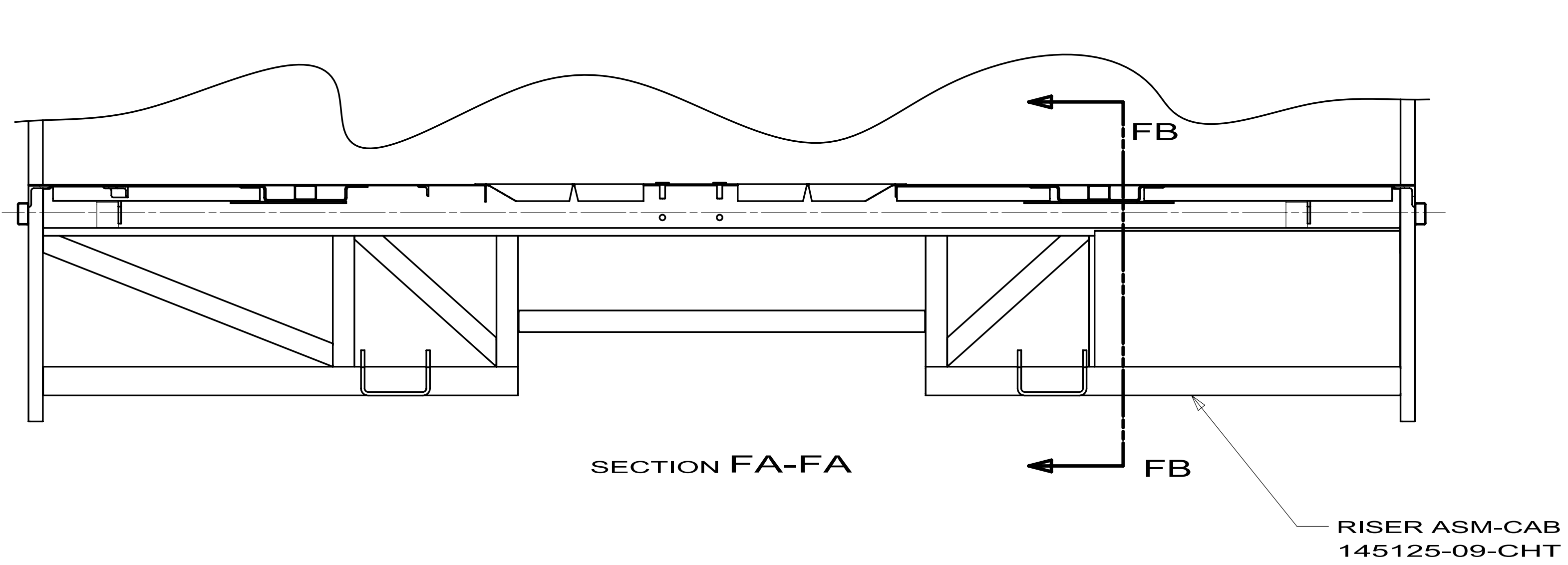


SECTION DJ-DJ

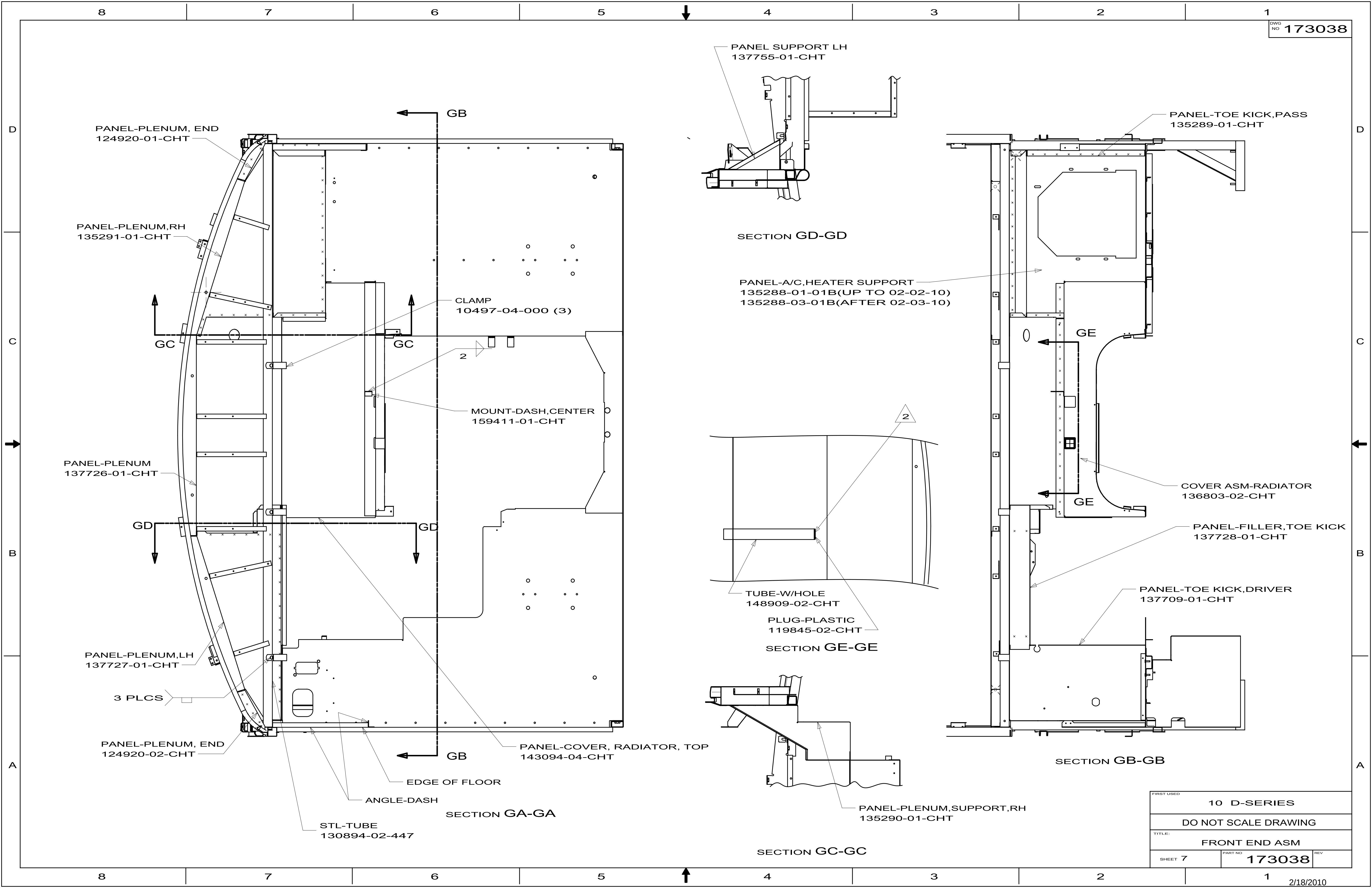
FIRST USED		
10 D-SERIES		
DO NOT SCALE DRAWING		
TITLE: FRONT END ASM		
SHEET 4	PART NO 173038	REV



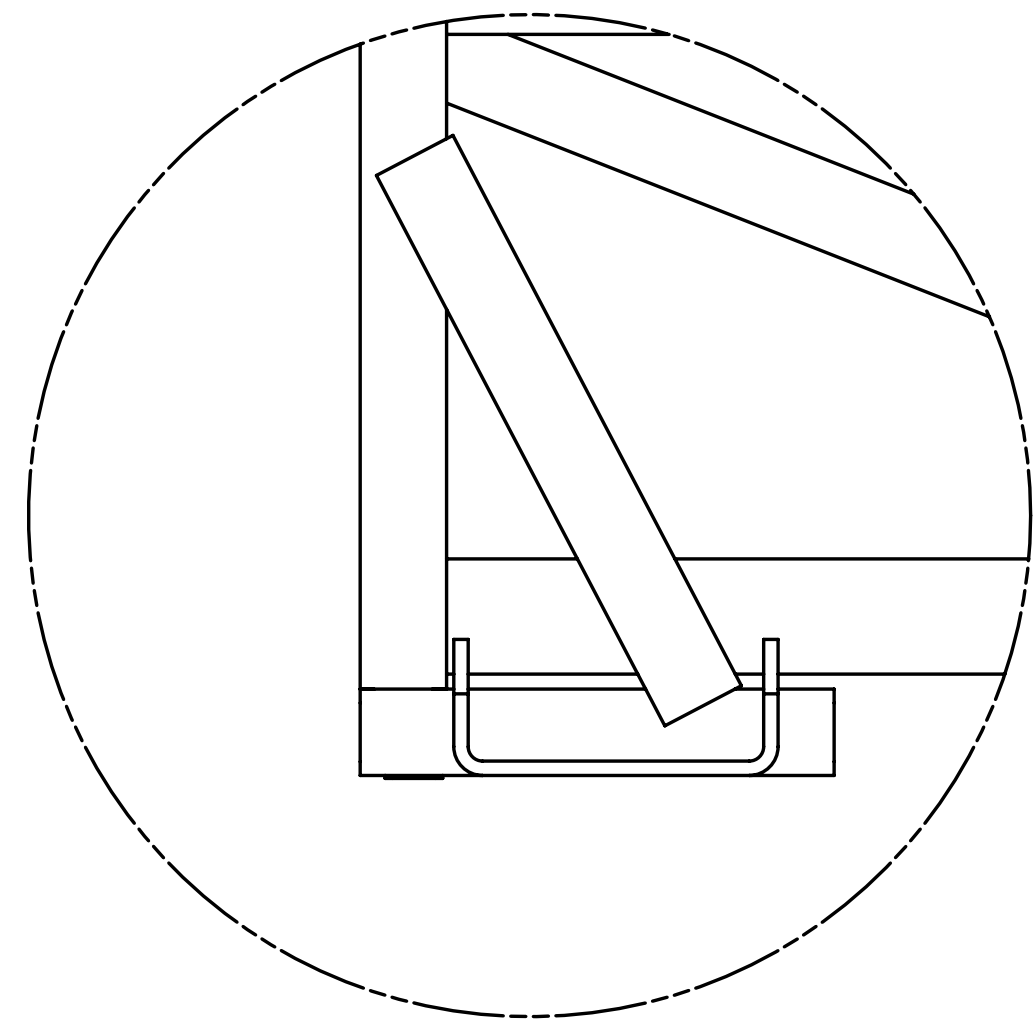
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DO NOT SCALE DRAWING			
TITLE: FRONT END ASM			
SHEET 5	PART NO	173038	REV



FIRST USED		10 D-SERIES	
DO NOT SCALE DRAWING			
TITLE:		FRONT END ASM	
SHEET 6	PART NO	173038	REV

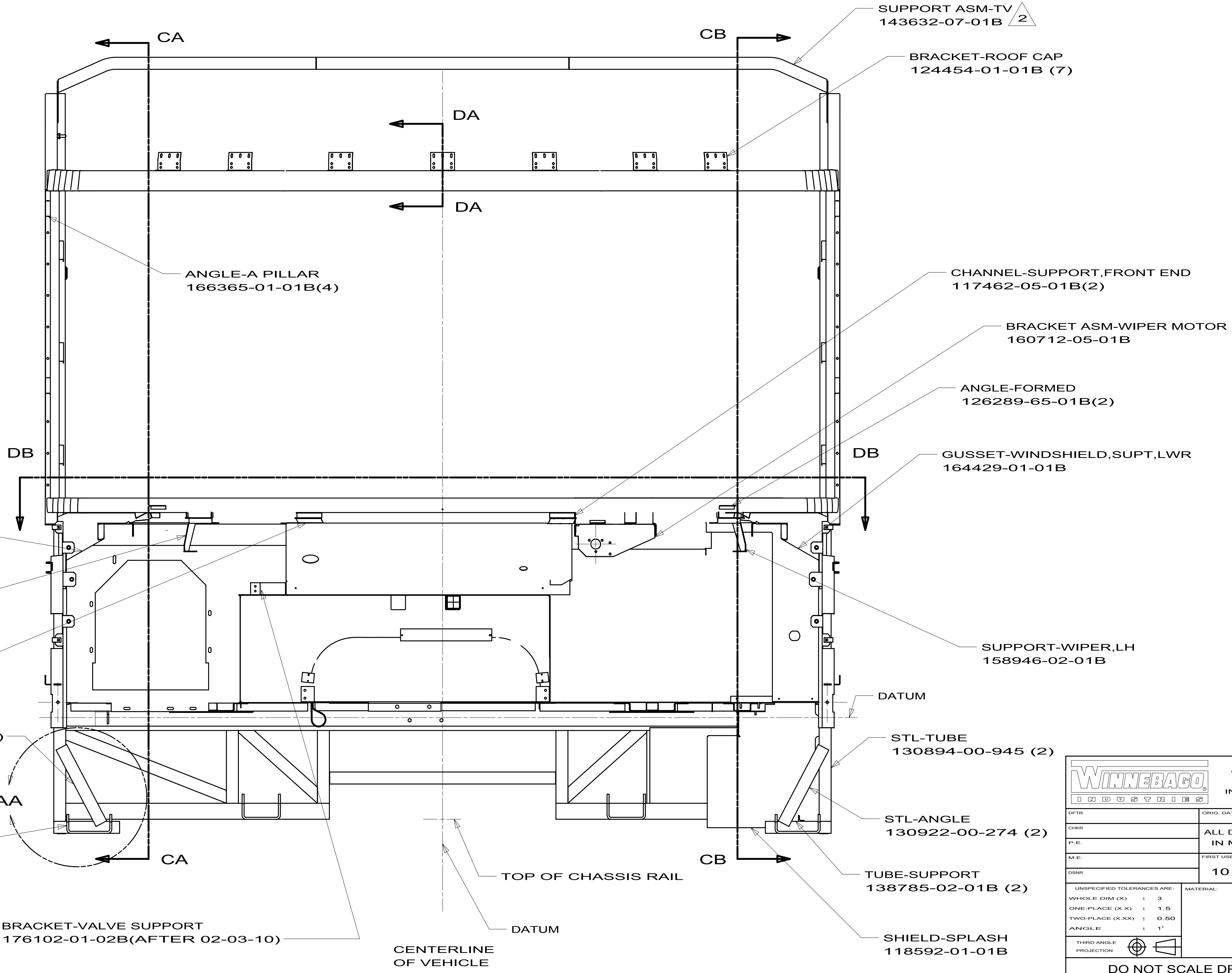


FIRST USED		
10 D-SERIES		
DO NOT SCALE DRAWING		
TITLE:		
FRONT END ASM		
SHEET 7	PART NO	REV
	173038	



DETAIL AA

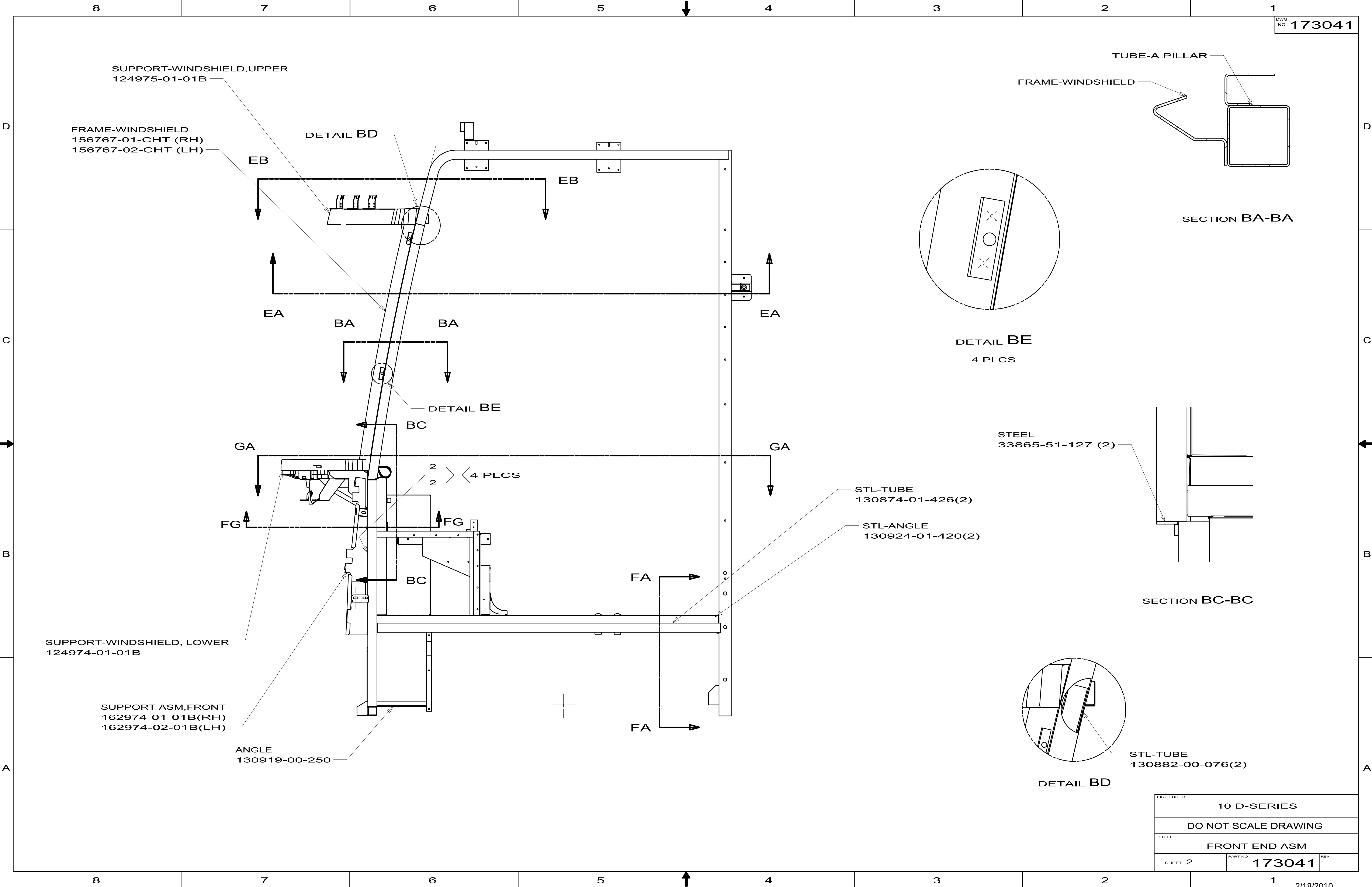
- NOTES:
1. CLEAN, E-COAT, AND SEAL CAB WITH 143201-01-000.
 2. ATTACH AFTER E-COAT.
 3. 7.13 DIA HOLE MUST LINE UP WITH HOLE IN B-PILLAR.
 4. HOLES MUST ALIGN TO ALLOW FREE PASSAGE OF A #10 SCREW.
 5. SEAL W/SEALANT 110744-C3-000 AFTER E-COAT.



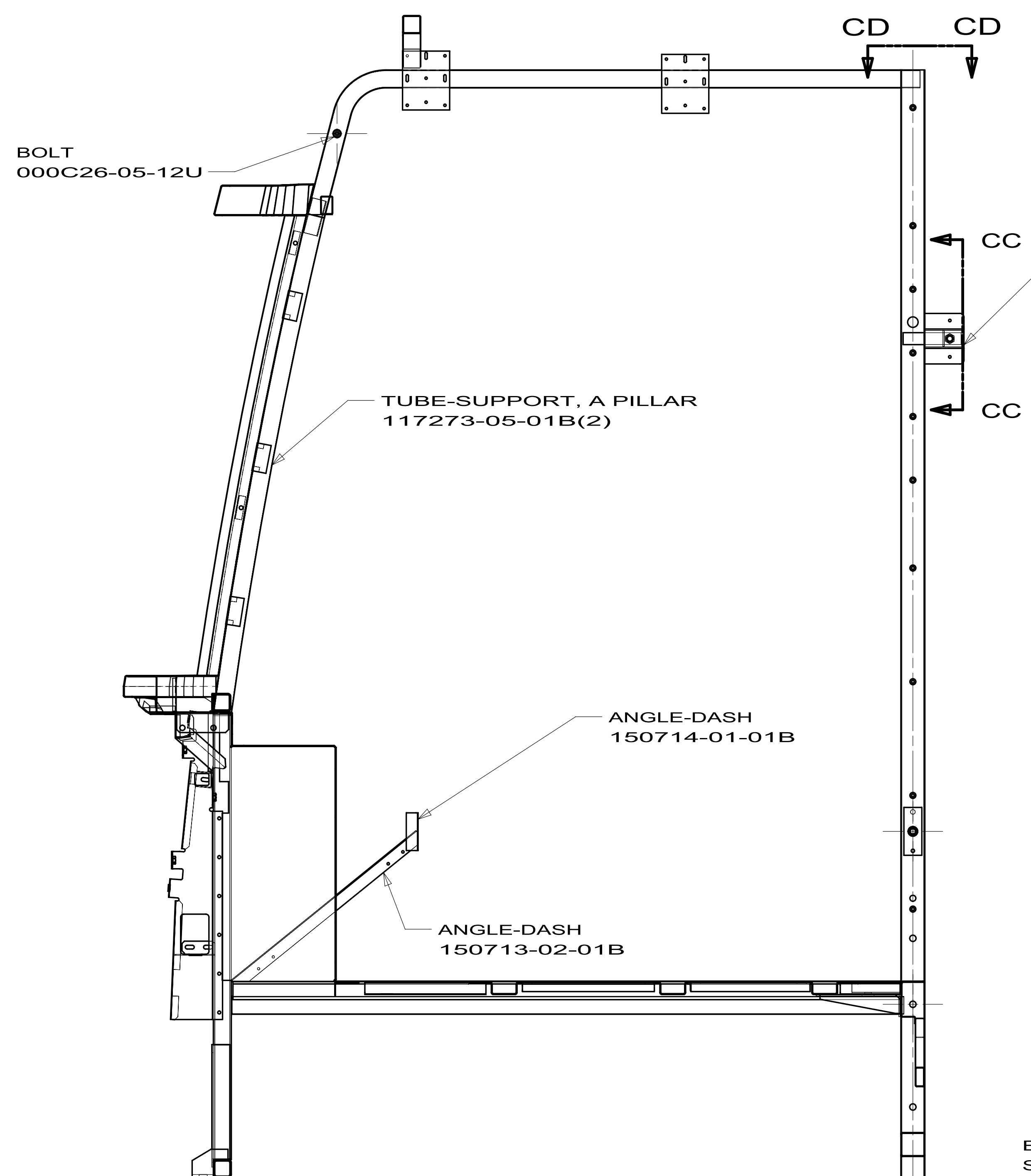
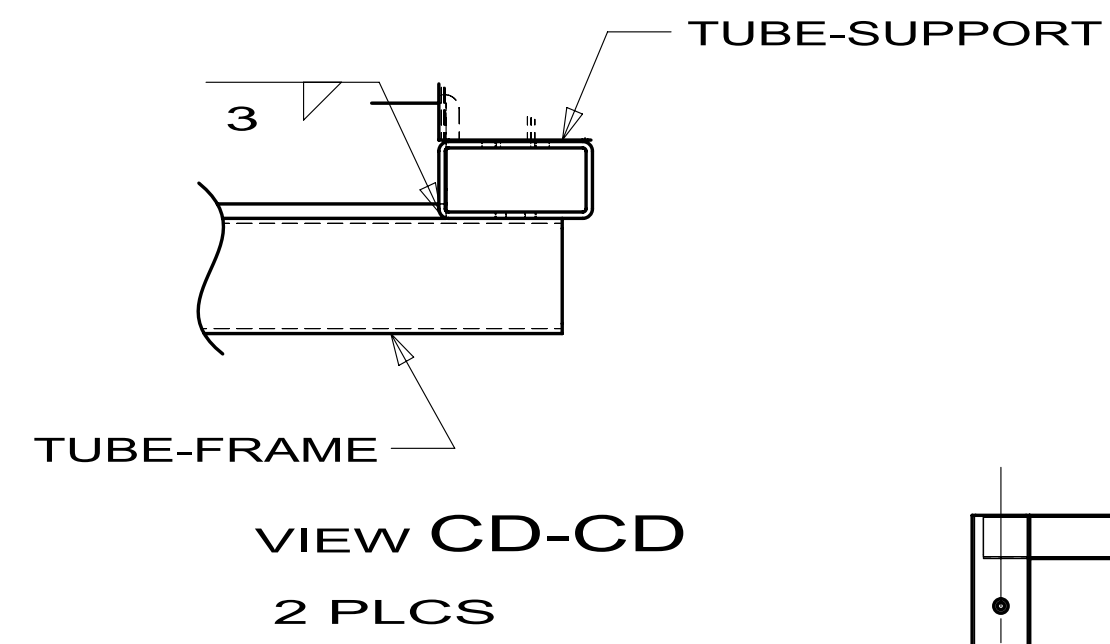
WINNEBAGO INDUSTRIES		COPYRIGHT 2010 WINNEBAGO INDUSTRIES, INC.	
DFT:R		ORIG. DATE	
CHRR		ALL DIMENSIONS ARE IN MILLIMETERS	
P.E.		FIRST USED	
M.E.		10 D-SERIES	
DSNR		MATERIAL:	
UNSPECIFIED TOLERANCES ARE:		THIRD ANGLE PROJECTION	
WHOLE DIM (X) : 3		DO NOT SCALE DRAWING	
ONE-PLACE (X.X) : 1.5		TITLE: FRONT END ASM	
TWO-PLACE (X.XX) : 0.50		SHEET 1 OF 7	
ANGLE : 1°		PART NO 173041	
		REF: 1	

SEE CHART
FOR COLOR VARIATIONS
OF THIS PART

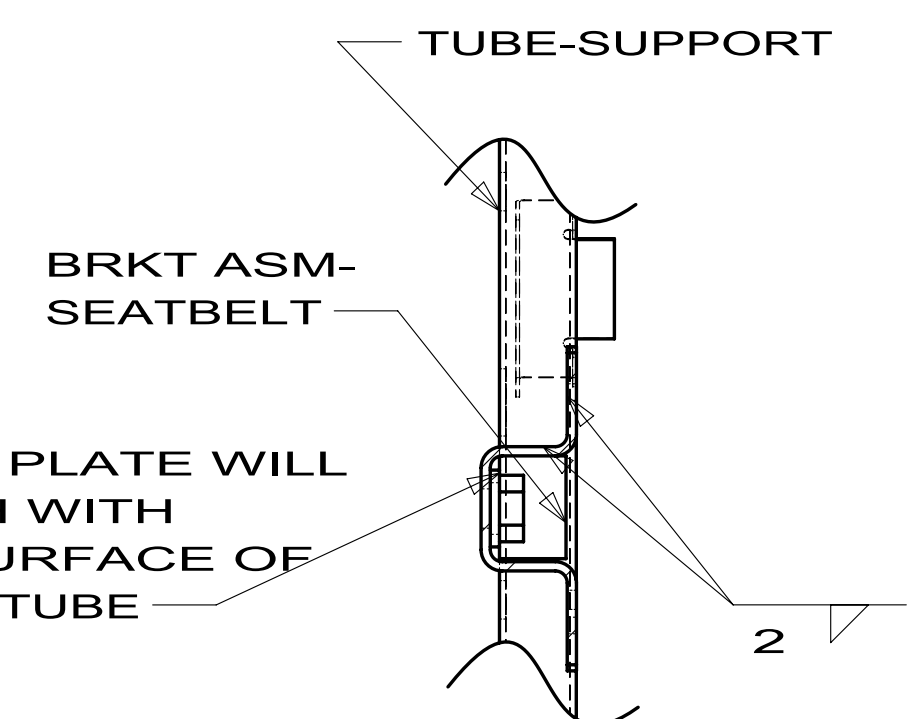
FORD



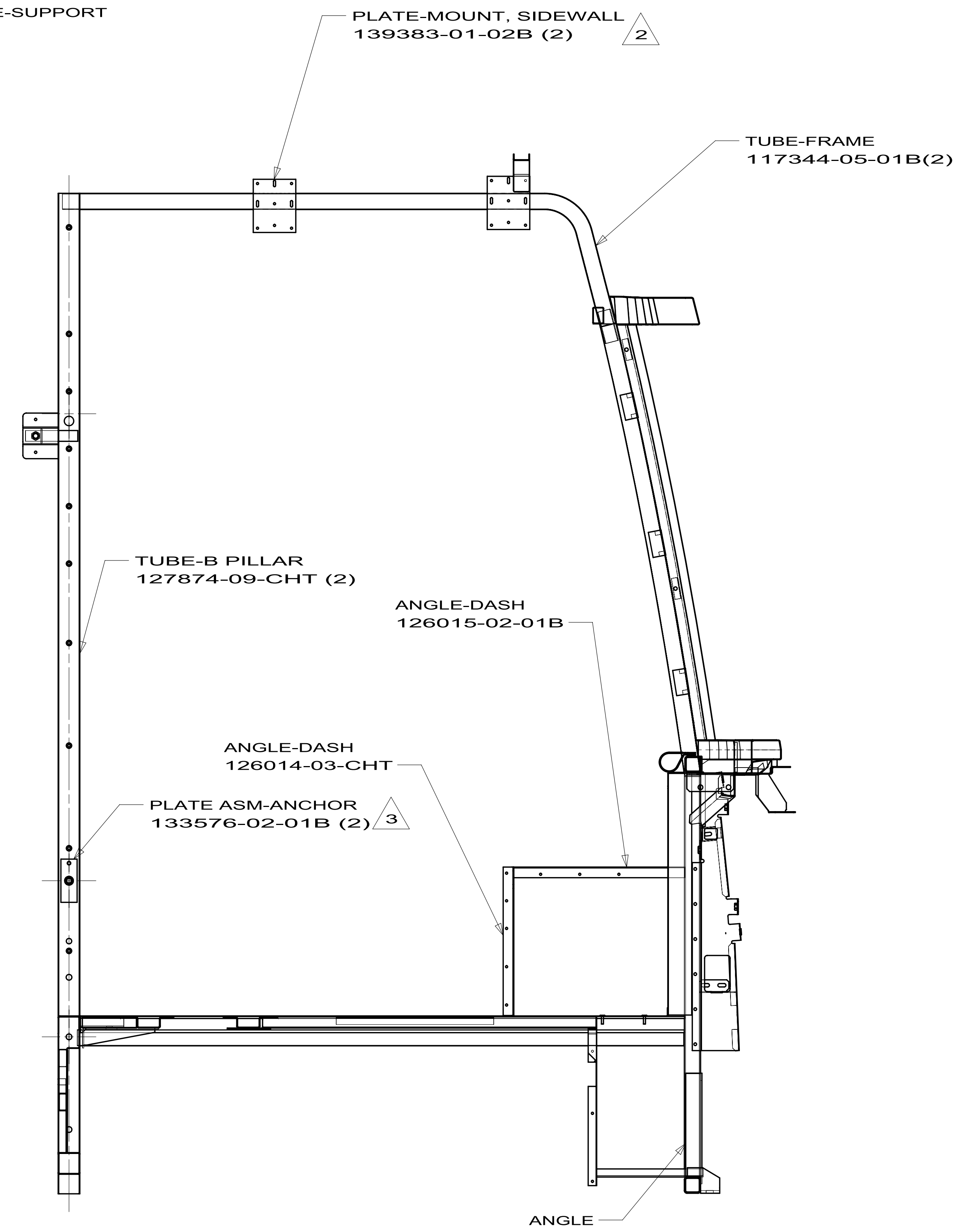
FIRST USED		
10 D-SERIES		
DO NOT SCALE DRAWING		
TITLE:		
FRONT END ASM		
SHEET 2	PART NO	REV
	173041	



SECTION CA-CA



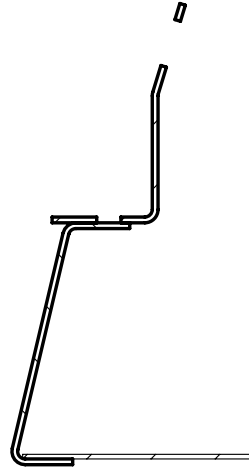
SECTION CC-CC
2 PLCS



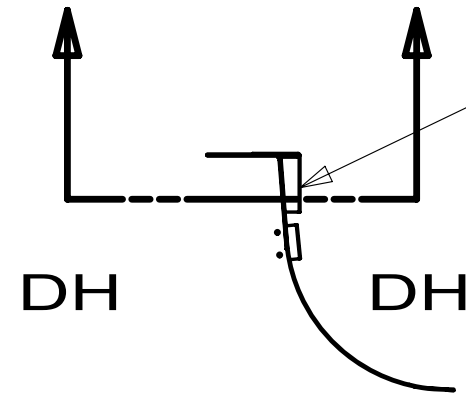
SECTION CB-CB

FIRST USED		
10 D-SERIES		
DO NOT SCALE DRAWING		
TITLE:		
FRONT END ASM		
SHEET 3	PART NO 173041	REV

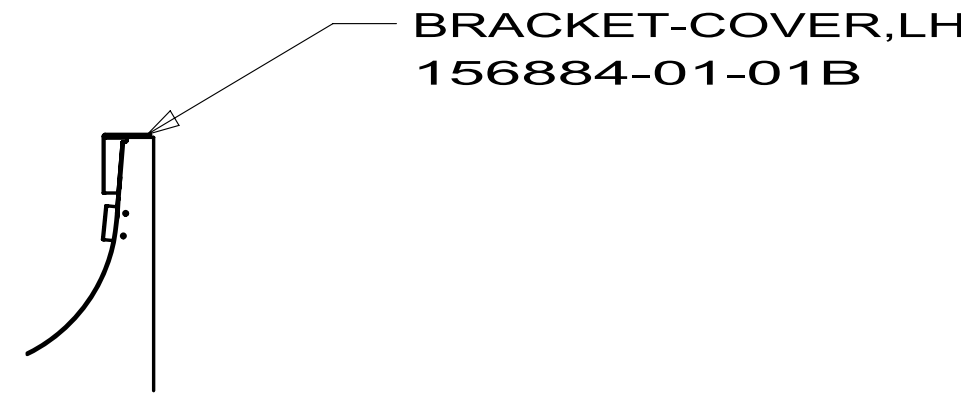
SECTION DA-DA



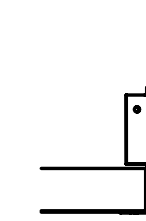
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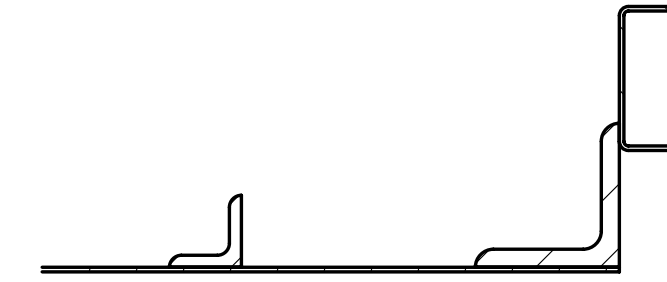
SECTION DG-DG



SECTION DH-DH



SECTION DE-DE



CLAMP
010497-04-000 (2)

DATUM
FLOOR ASM-CAB
133472-30-01B

BRACKET-DEFROST
137047-06-01B (2)

BRACKET-DEFROST
137047-05-01B (2)

BRACKET-DEFROST
137047-04-01B (4)

TOOLING HOLE

SECTION DB-DB

CHANNEL-SUPPORT

STRAP-SUPPORT

4

SUPPORT-WINDSHIELD

SECTION DD-DD

SUPPORT-WIPER

ANGLE-FORMED

SECTION DC-DC

FIRST USED		
10 D-SERIES		
DO NOT SCALE DRAWING		
TITLE:		
FRONT END ASM		
SHEET 4	PART NO 173041	REV

8

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1

DWG
NO 173041

D

C

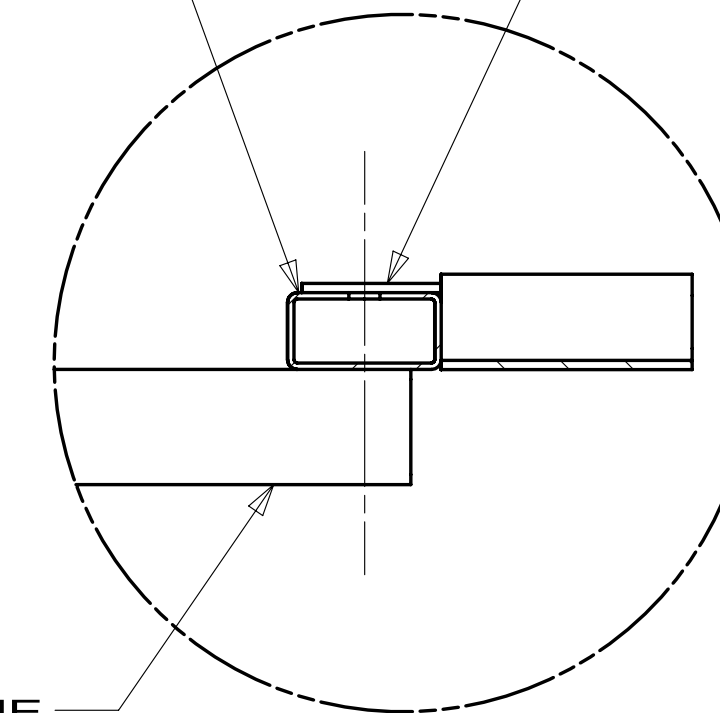
B

A

←

B PILLAR

PLATE ASM



DETAIL EC

STL-TUBE
130875-02-448BOLT
000C26-05-12U

TUBE-FRAME

SECTION EB-EB

↑

4

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6

7

8

2/18/2010

1

PART NO 173041

SHEET 5

TITLE:

FRONT END ASM

DO NOT SCALE DRAWING

10 D-SERIES

FIRST USED

SECTION EA-EA

DETAIL EC

HEADER-WINDSHIELD
132793-04-01B

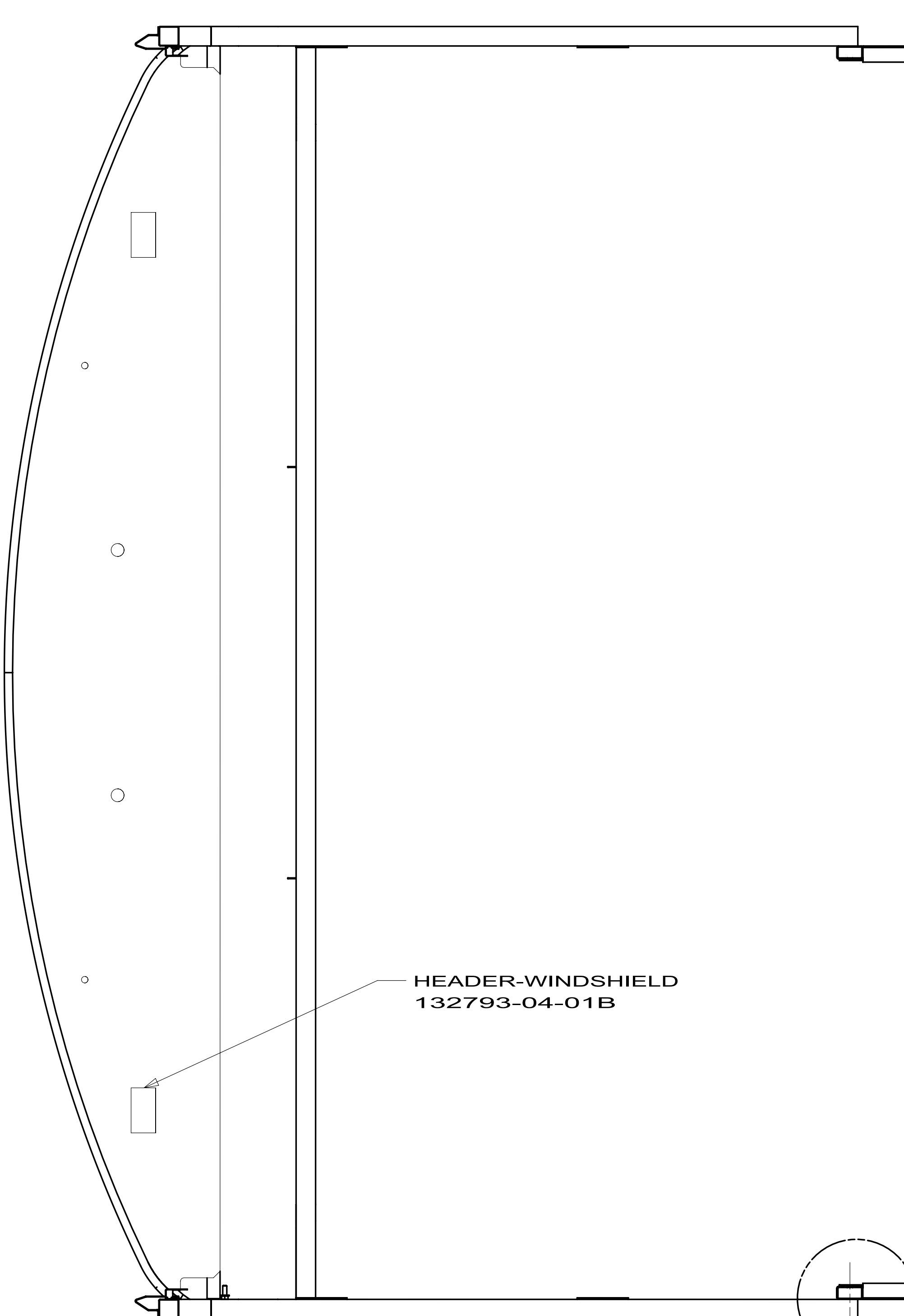
A

B

C

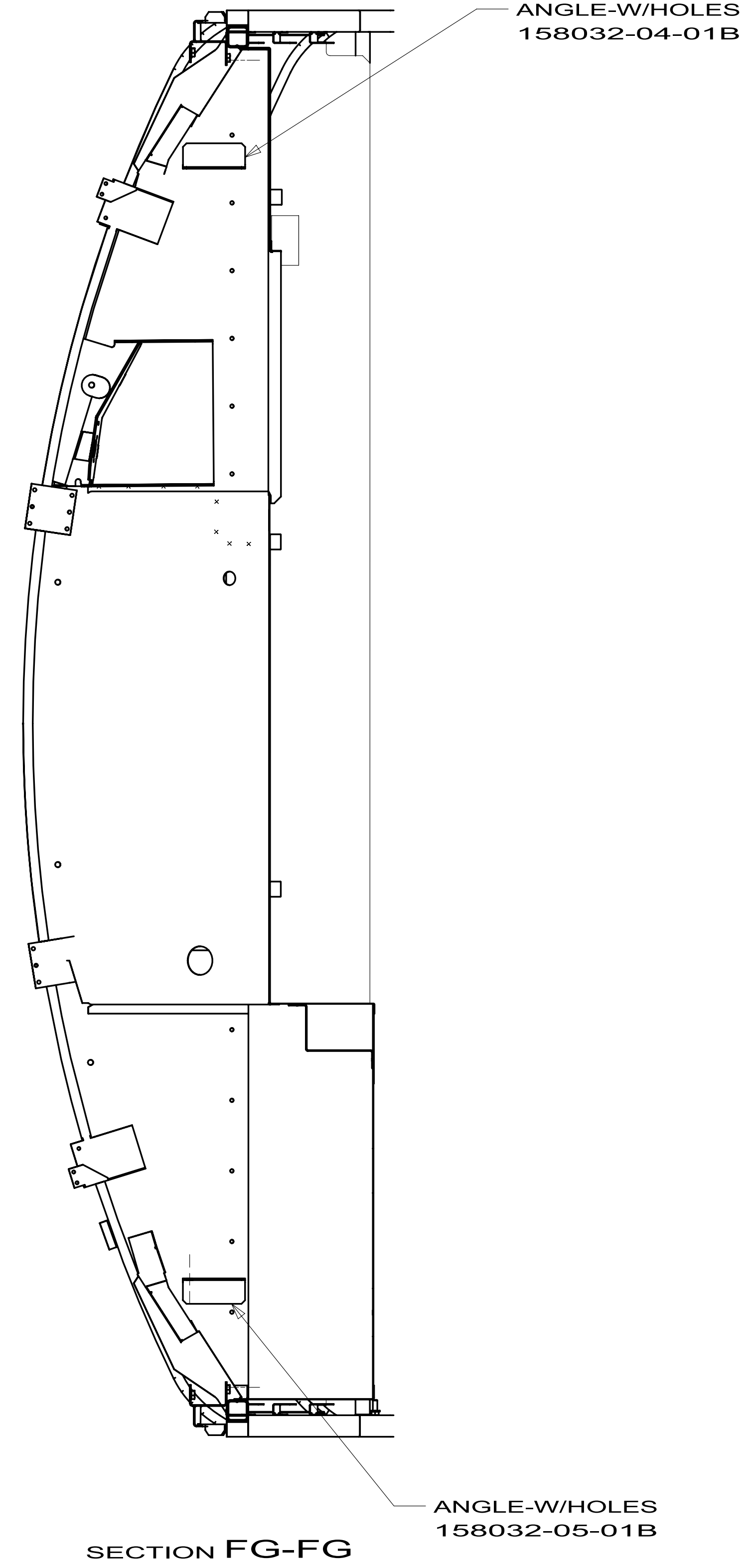
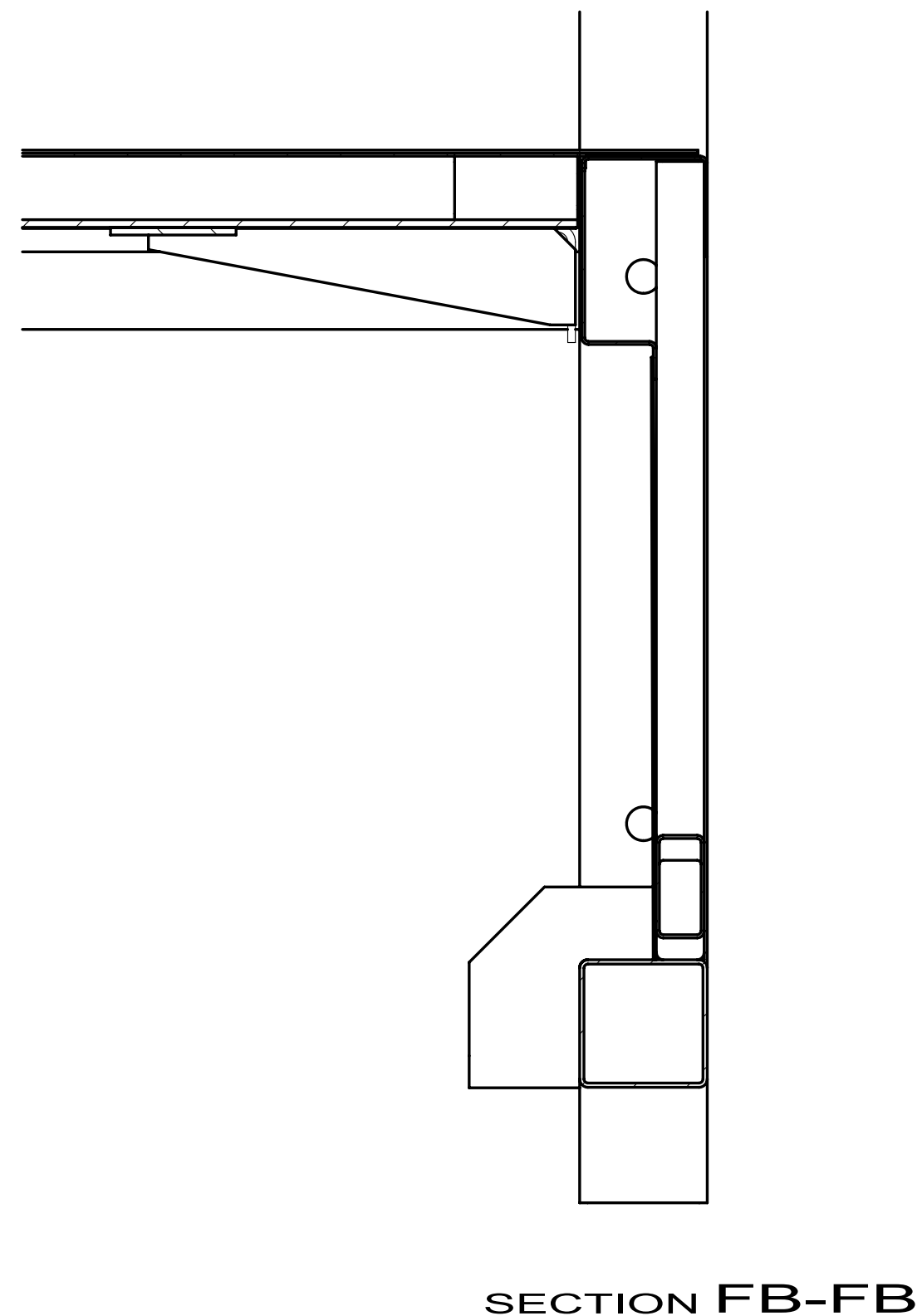
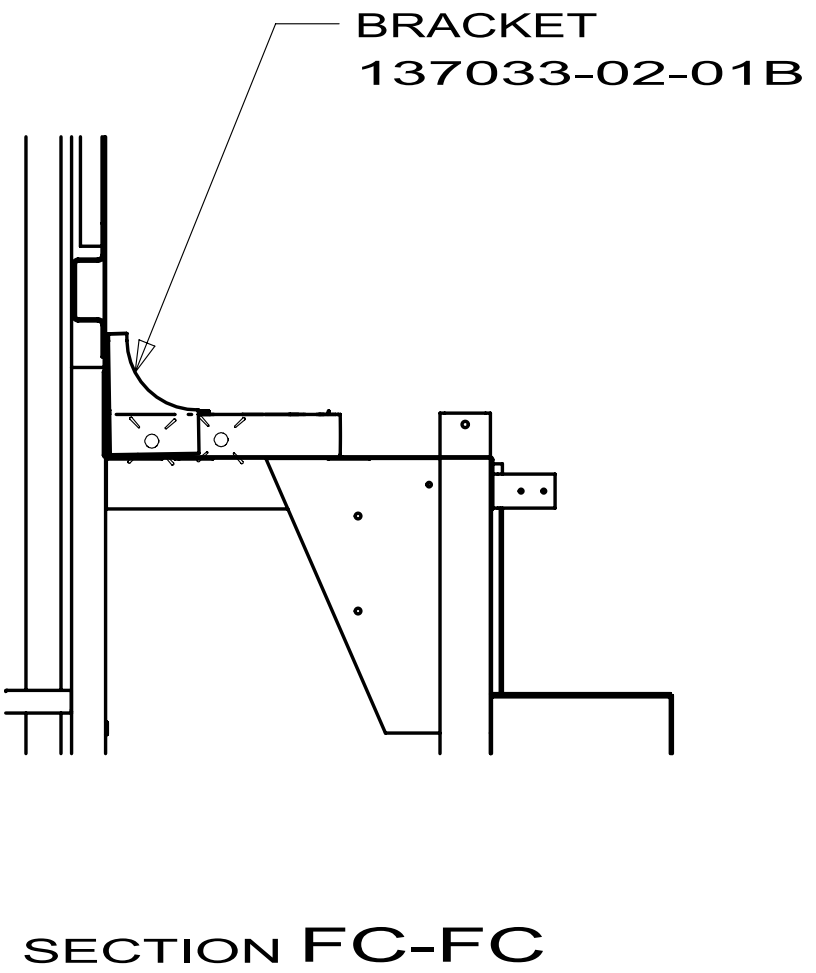
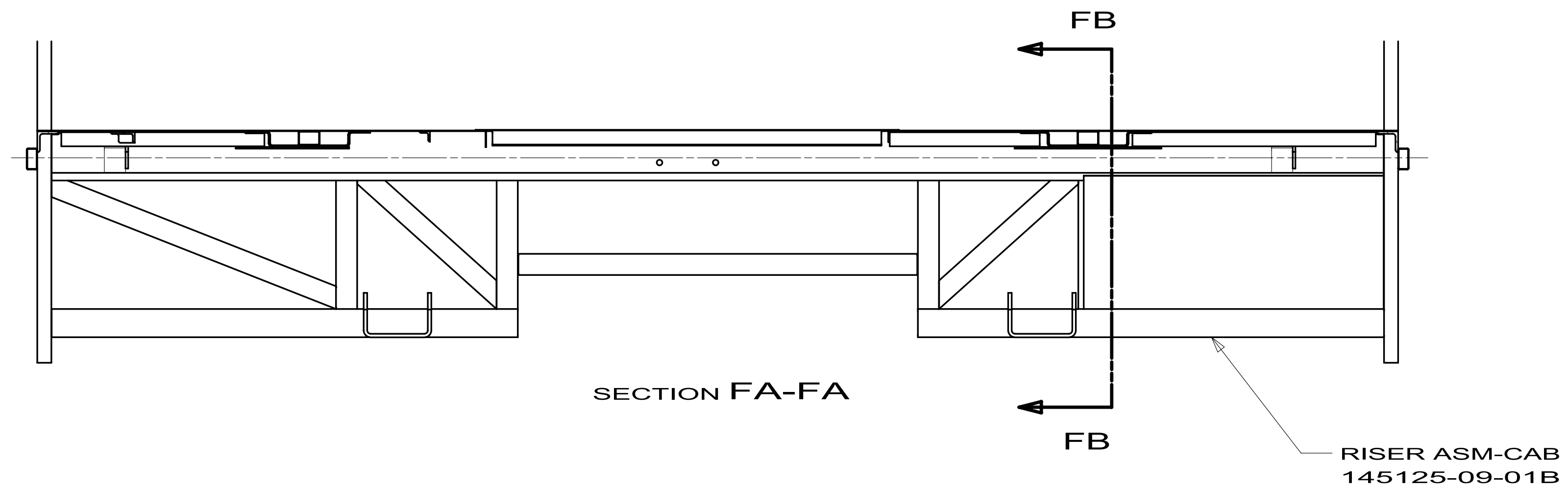
D

→

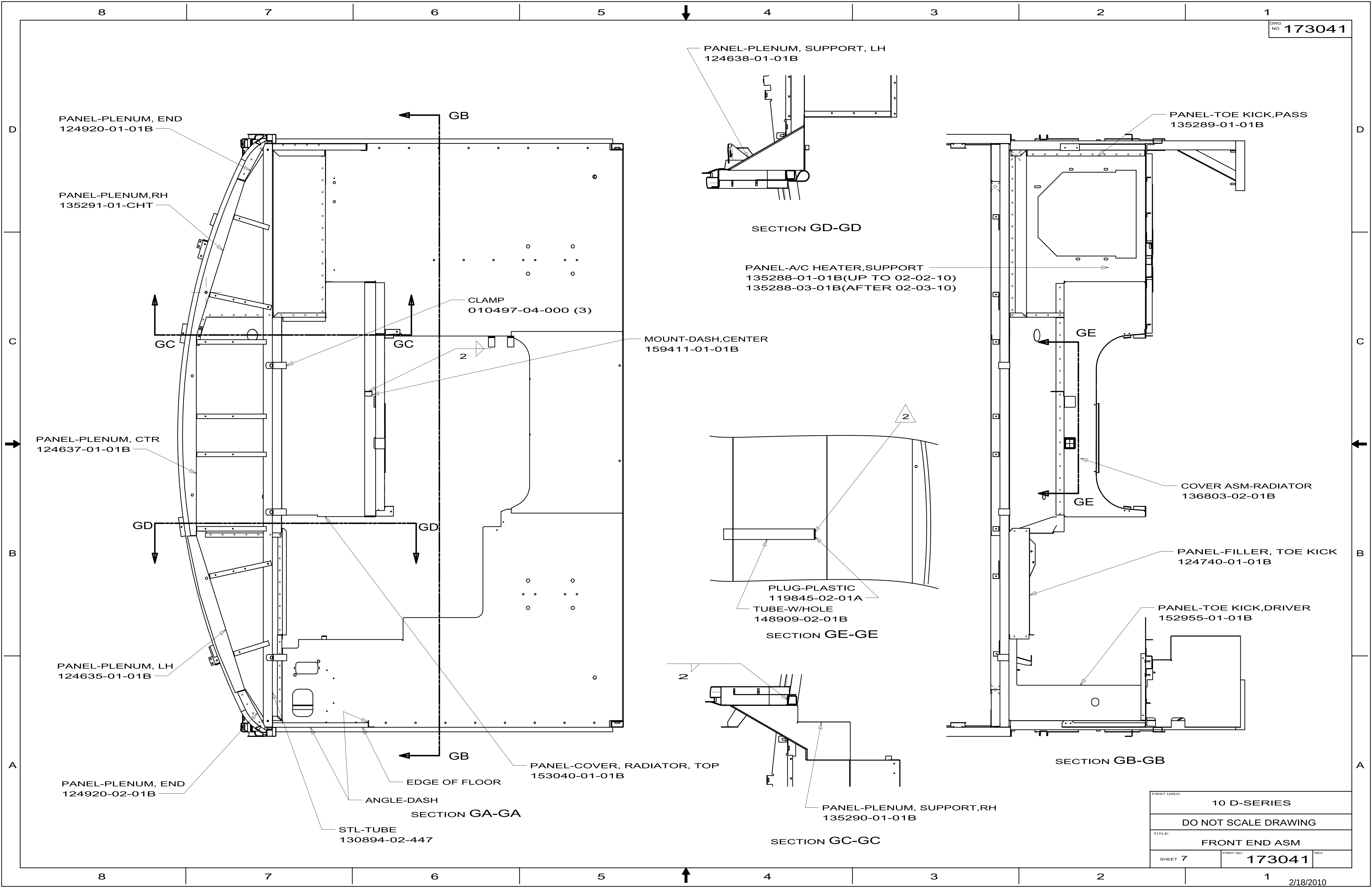


D
C
B
A

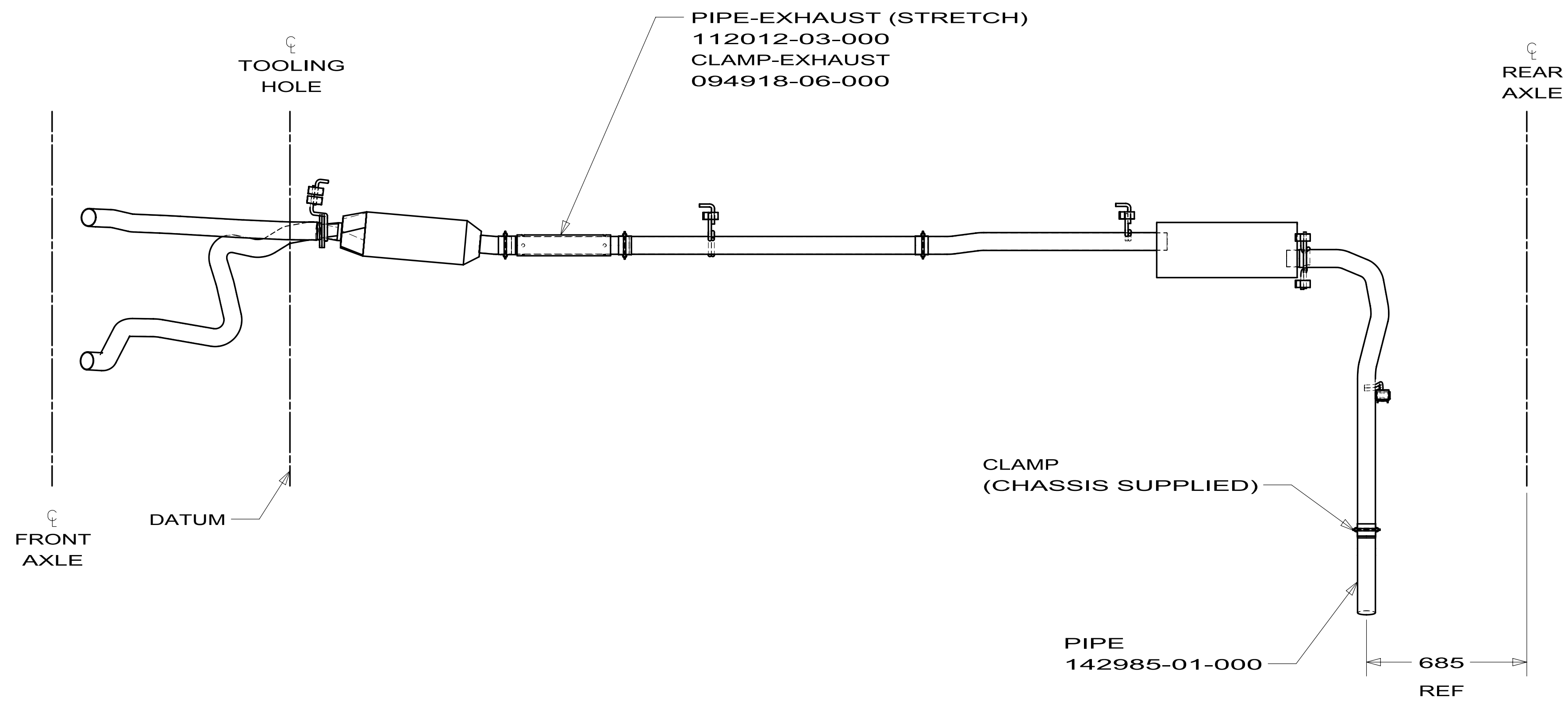
D
C
B
A



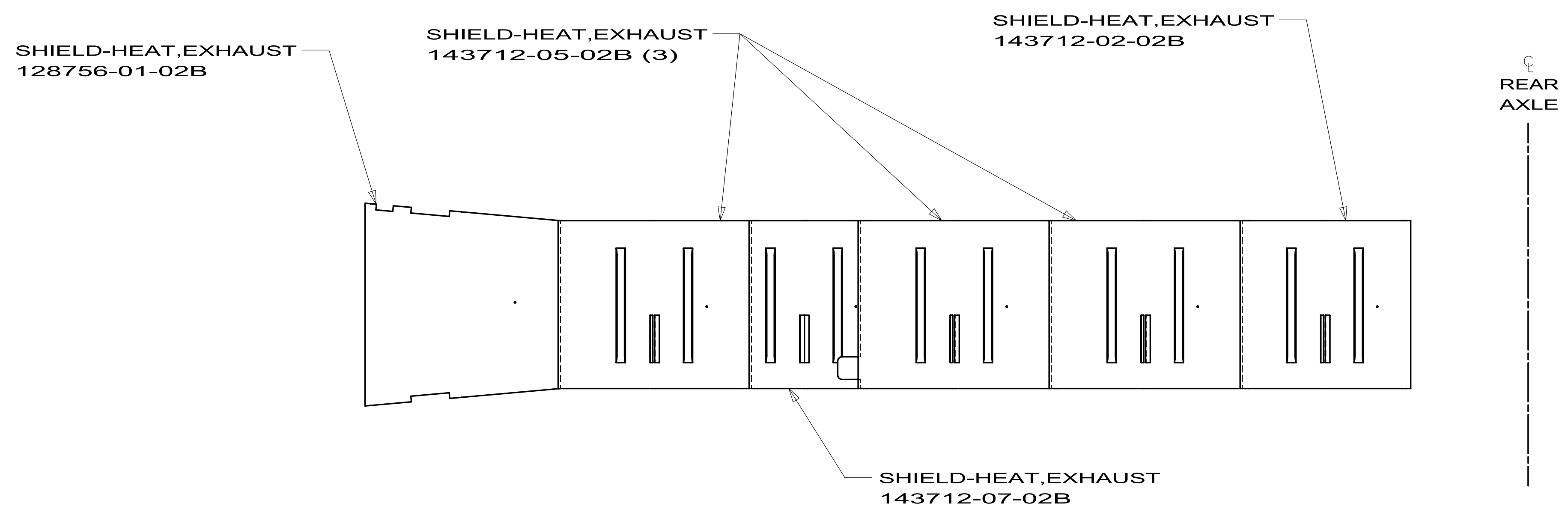
FIRST USED		
10 D-SERIES		
DO NOT SCALE DRAWING		
TITLE:		
FRONT END ASM		
SHEET 6	PART NO 173041	REV



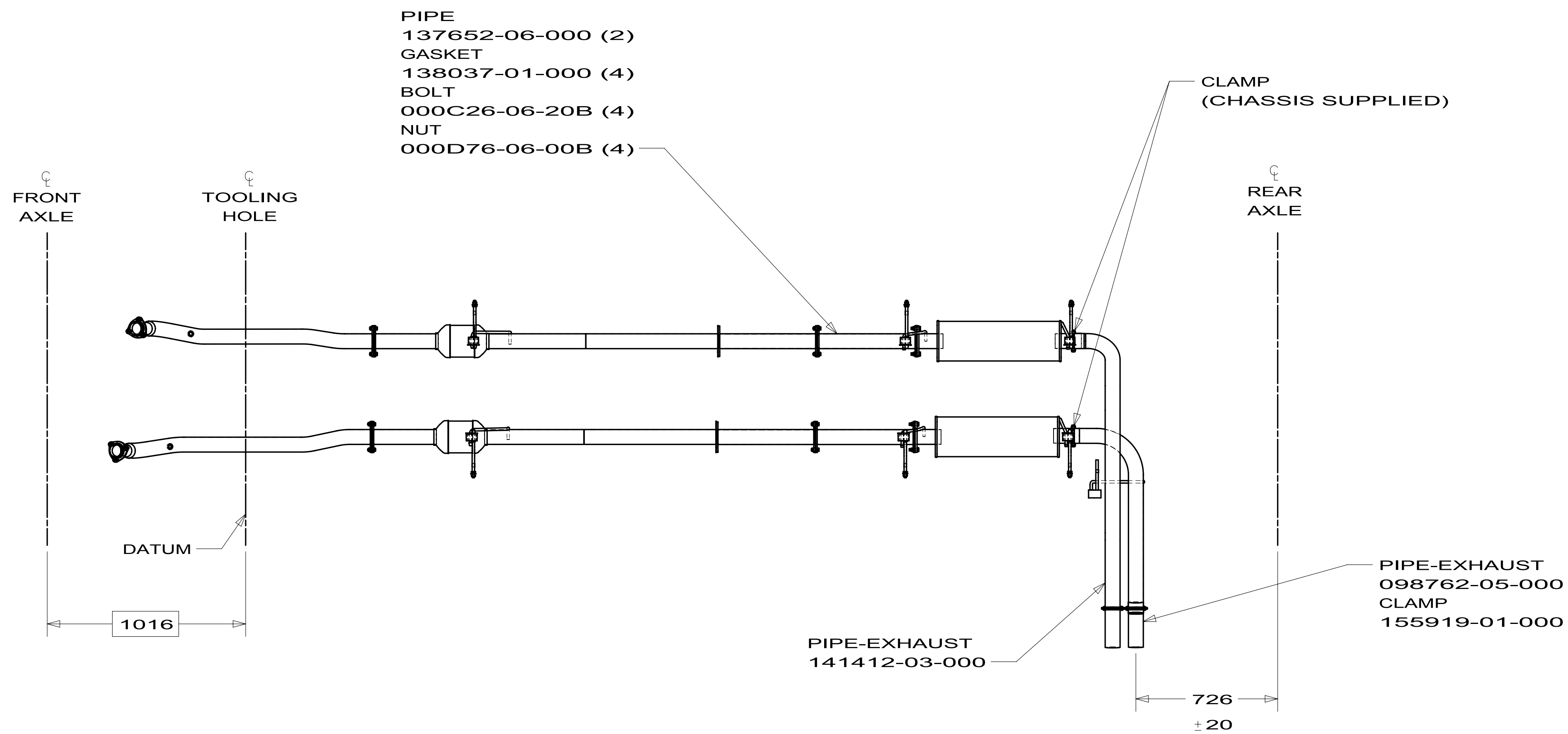
FIRST USED		
10 D-SERIES		
DO NOT SCALE DRAWING		
TITLE:		
FRONT END ASM		
SHEET 7	PART NO	REV
	173041	



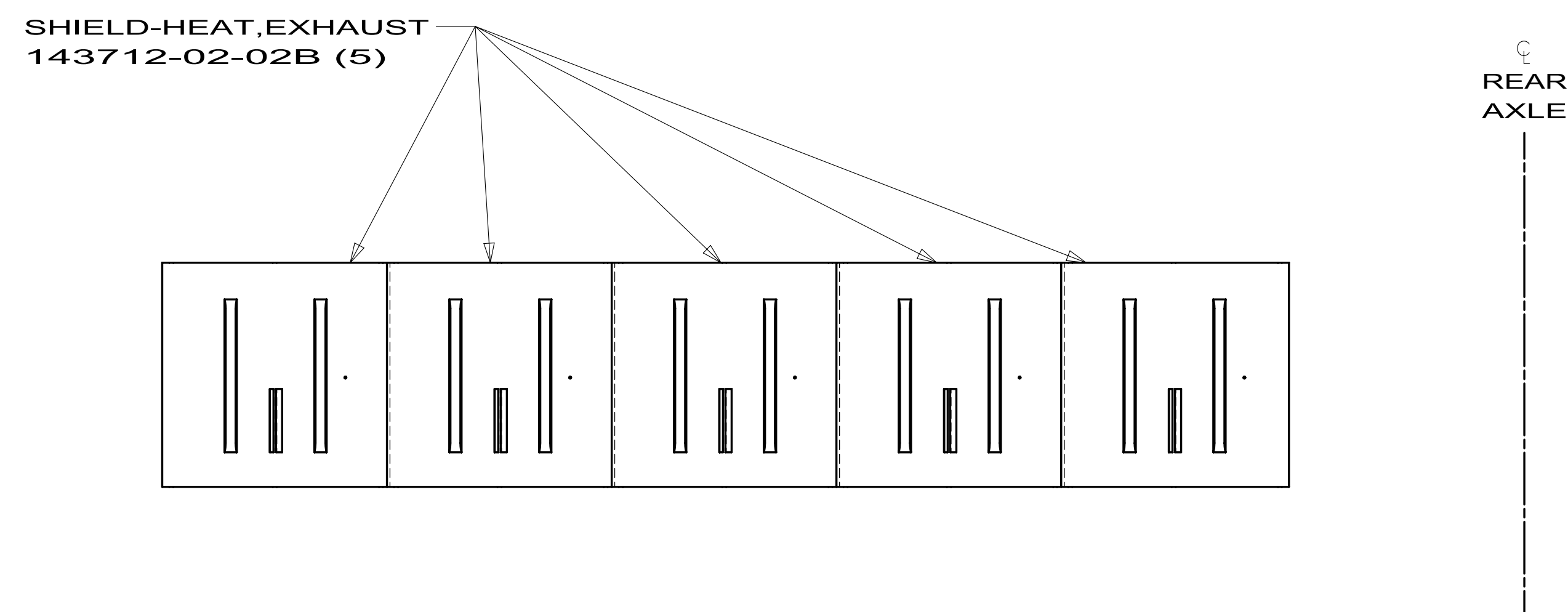
D37L,J38N
167164-09



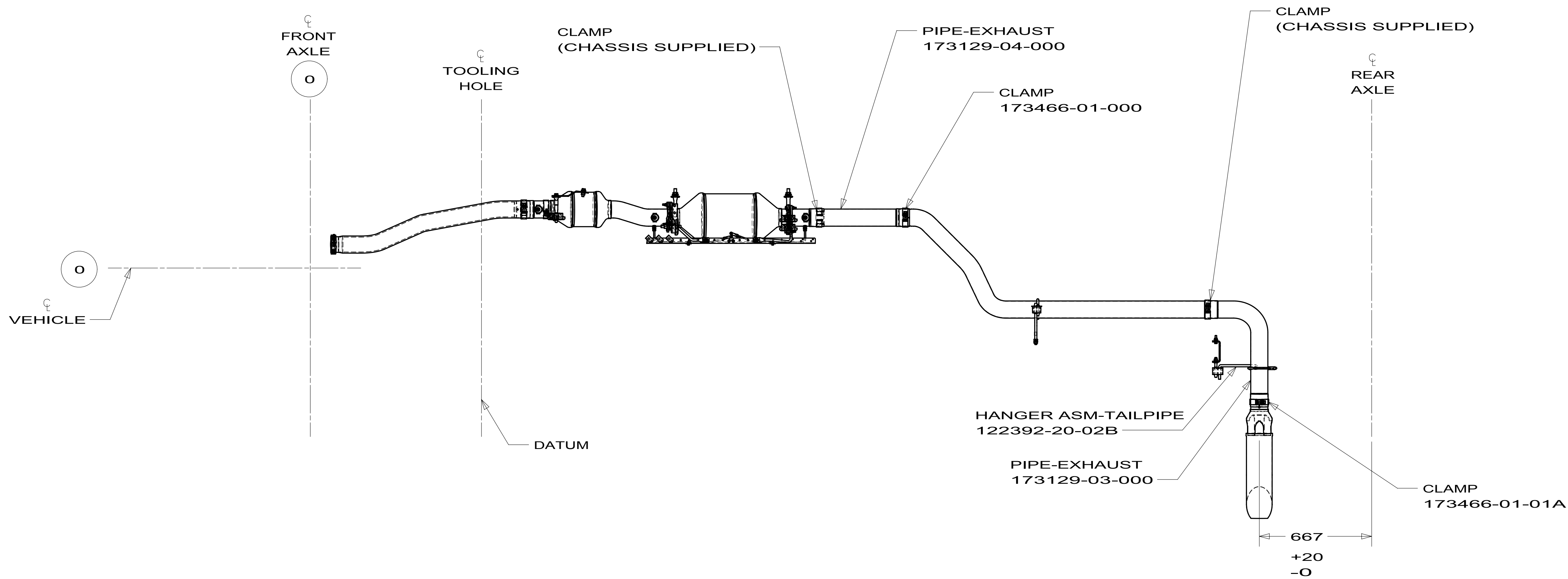
STRETCH 228" WHEELBASE
TO 248" WHEELBASE



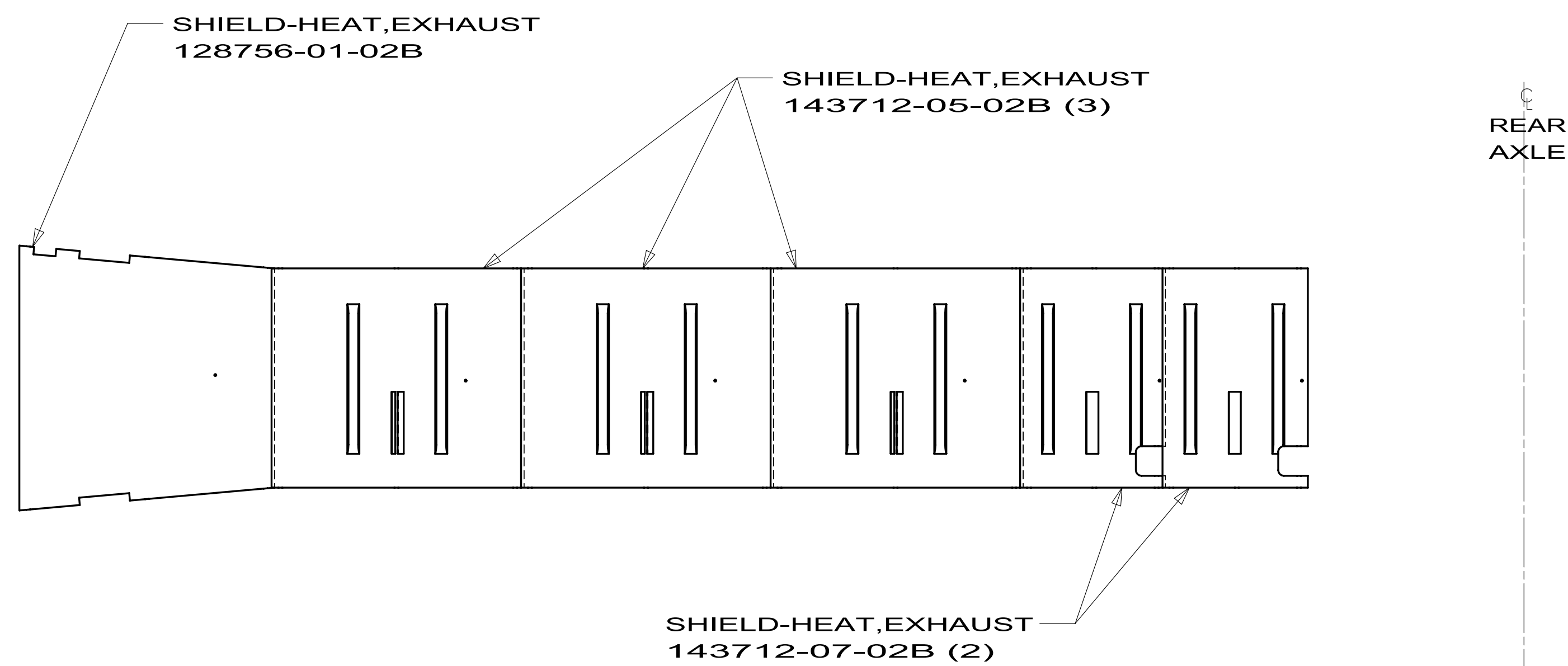
D37L
167341-13

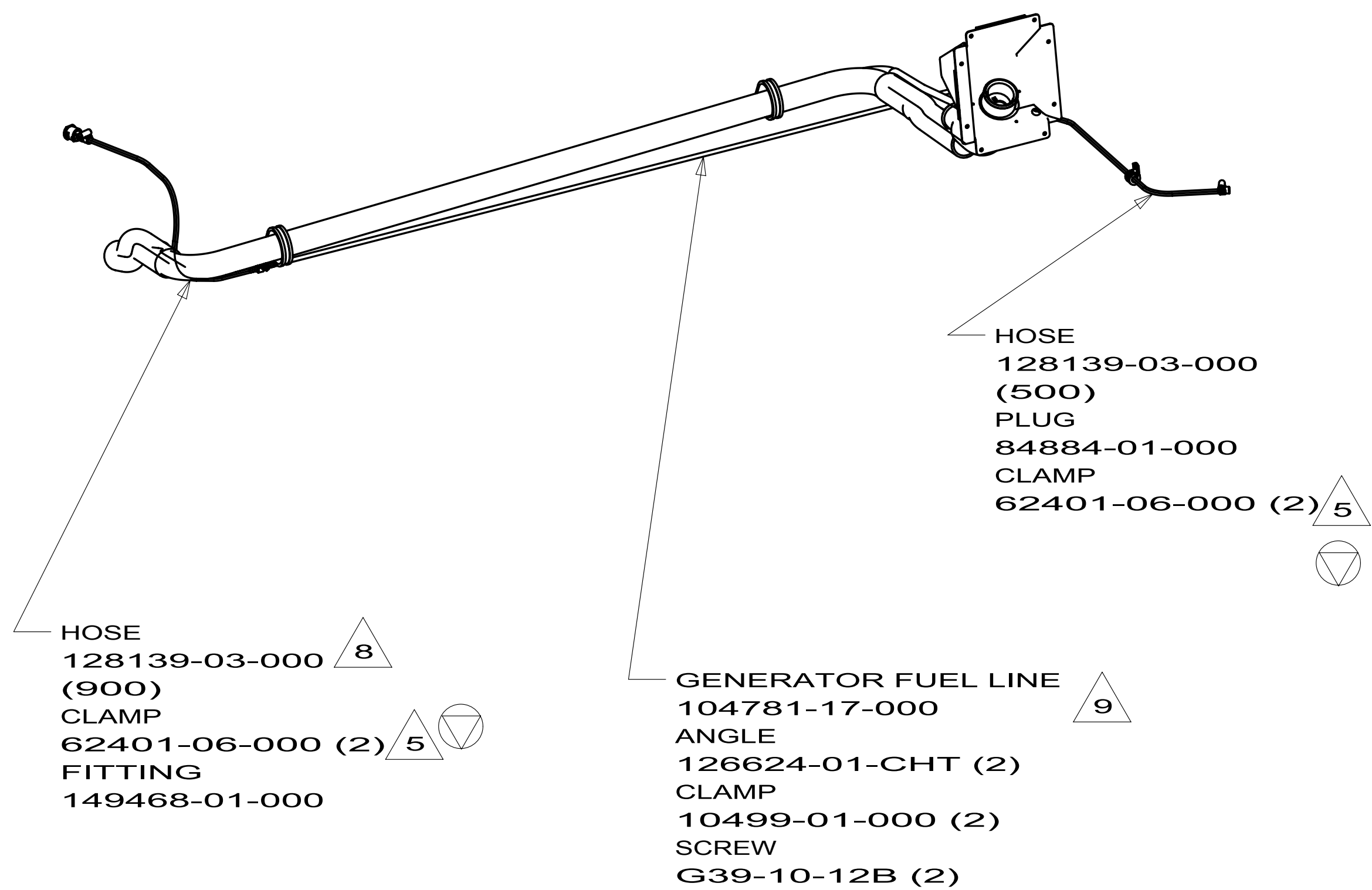
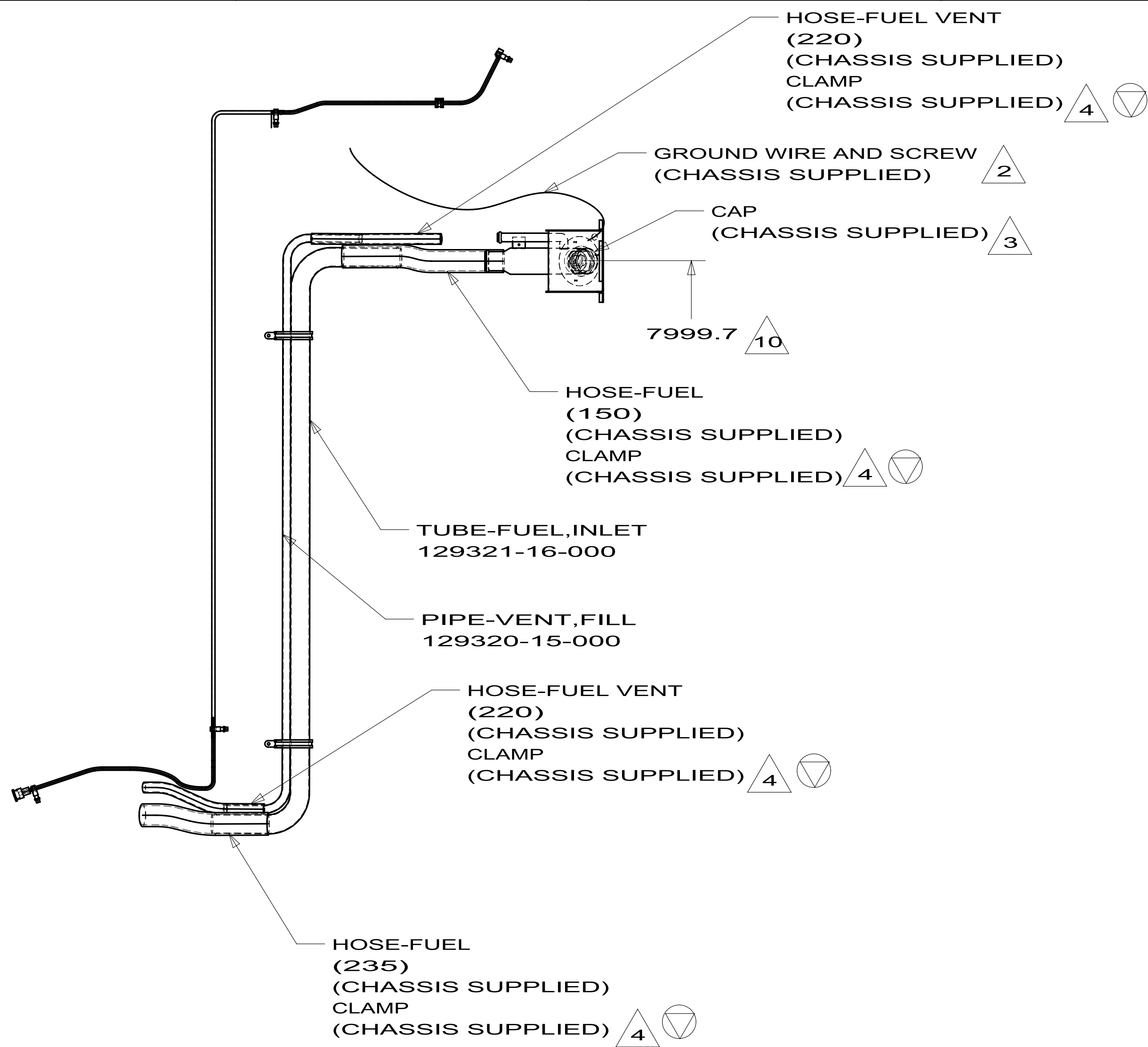


**STRETCH 228" WHEELBASE
TO 248" WHEELBASE**

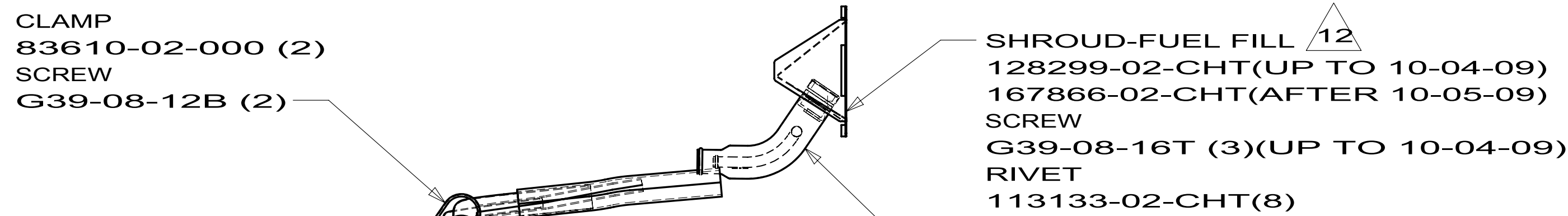


172550-06
D37L
228" WHEELBASE
STRETCHED TO
248" WHEELBASE





D37L
167442-12



SECTION M-M

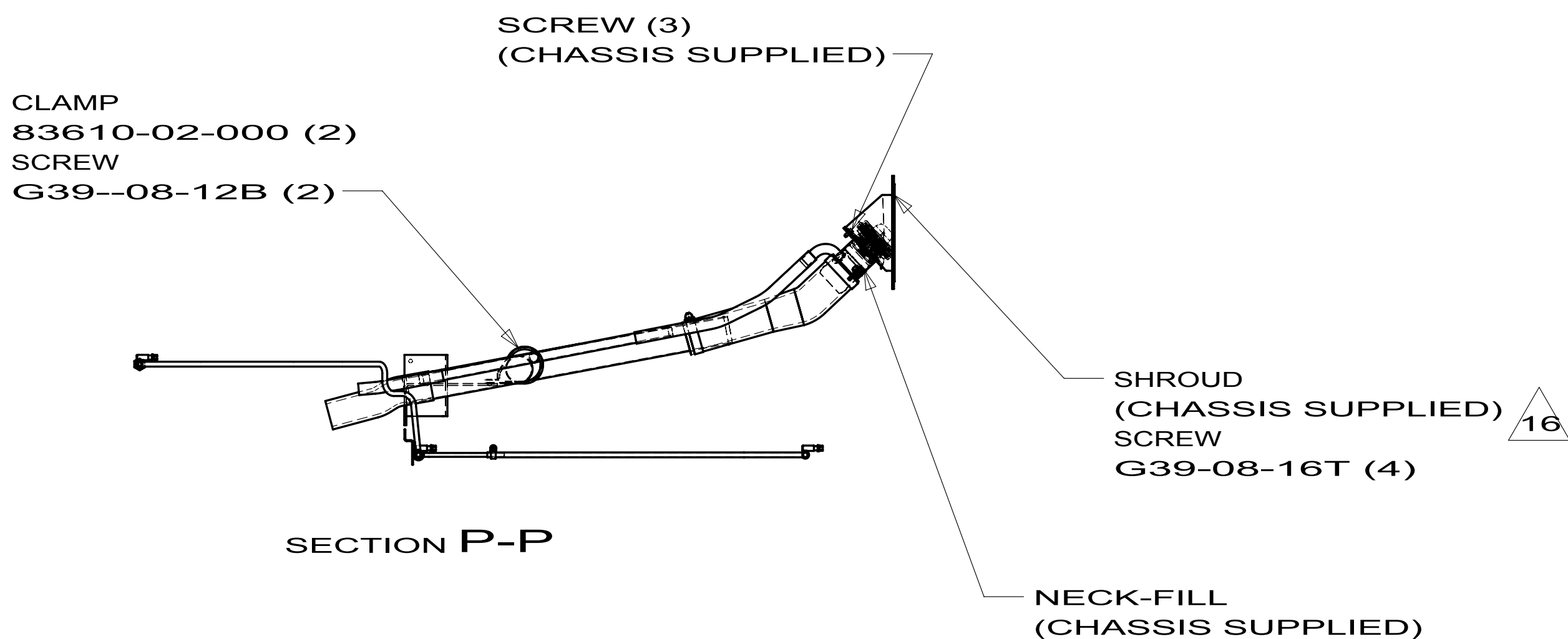
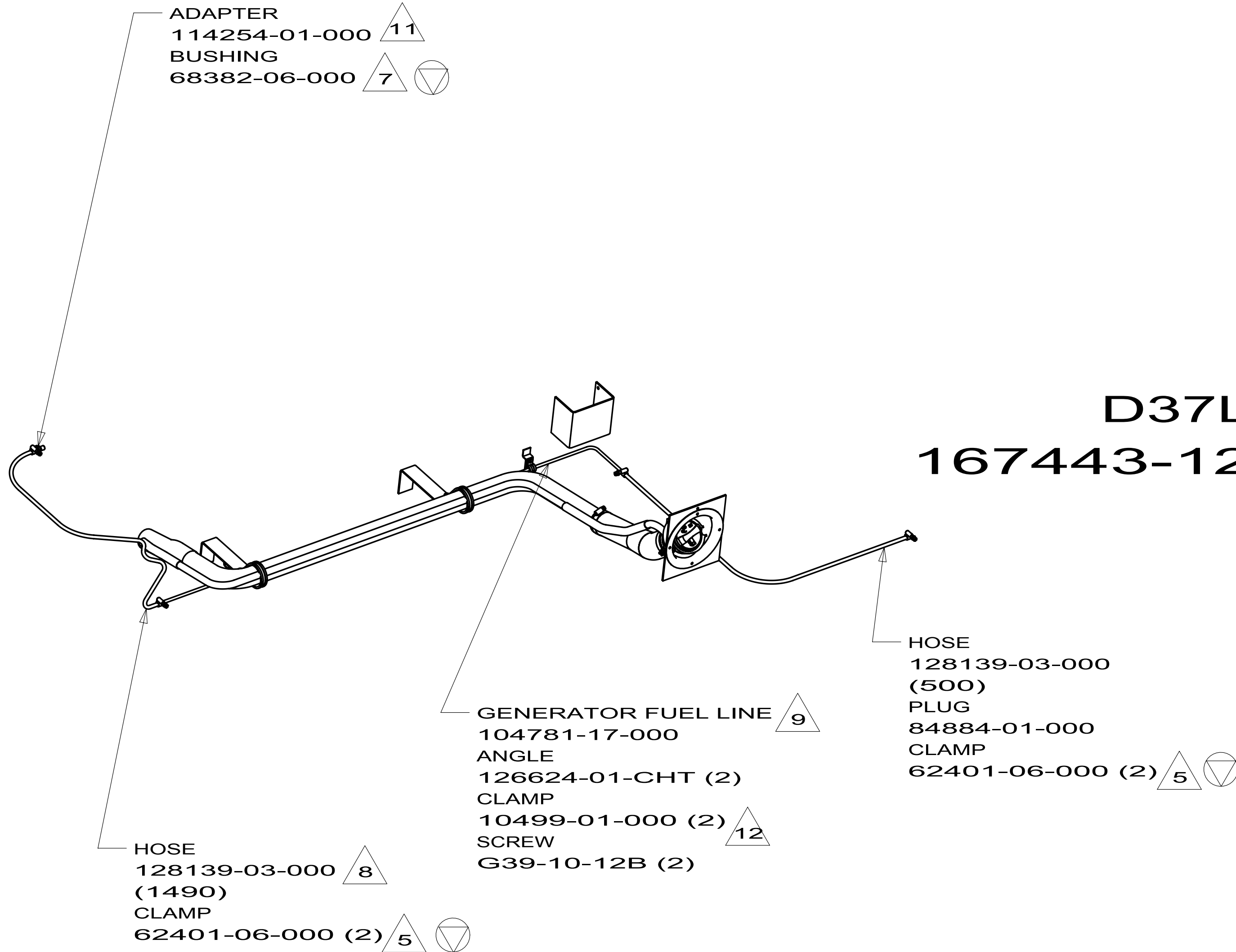
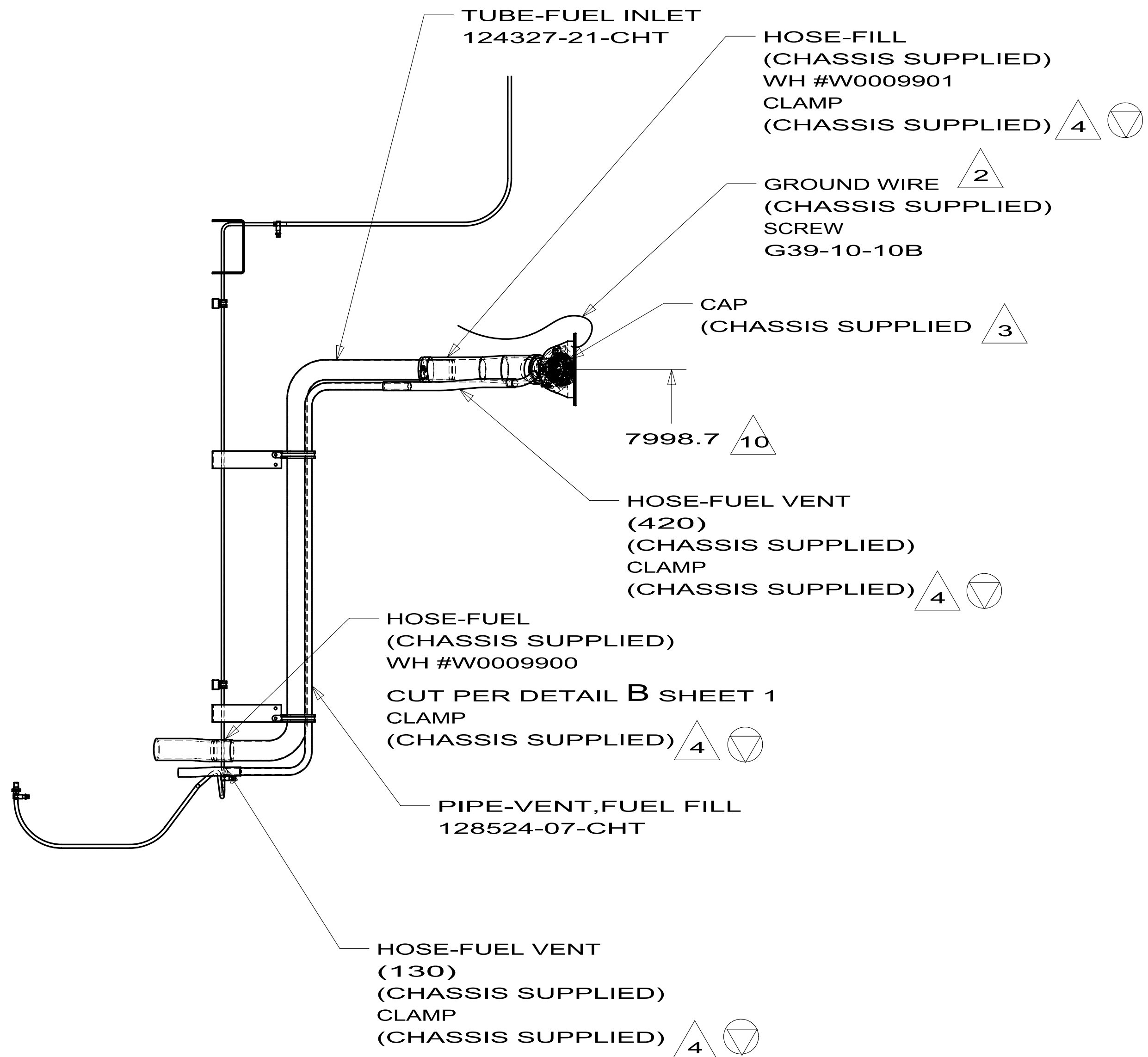
D37L
248" WHEELBASE
(STRETCH 228" TO 248")
LH GENERATOR

FIRST USED		
09 FORD MH		
DO NOT SCALE DRAWING		
TITLE: FUEL SYSTEM INSTL-FUEL FILL		
SHEET 10	PART NO 167442	REV

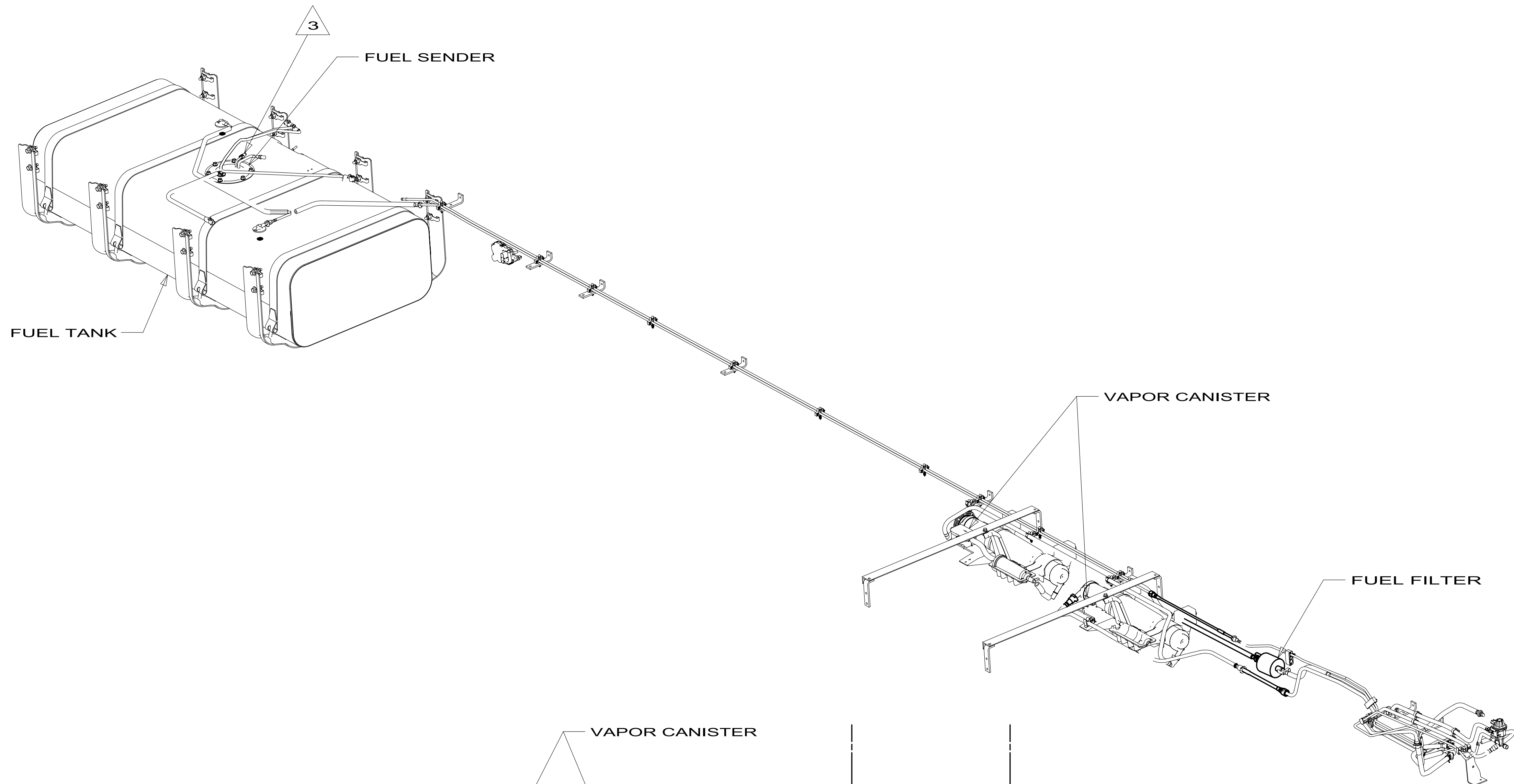
D37L
167443-12

D37L
248" WHEELBASE
(STRETCH 228" TO 248")
LH GENERATOR

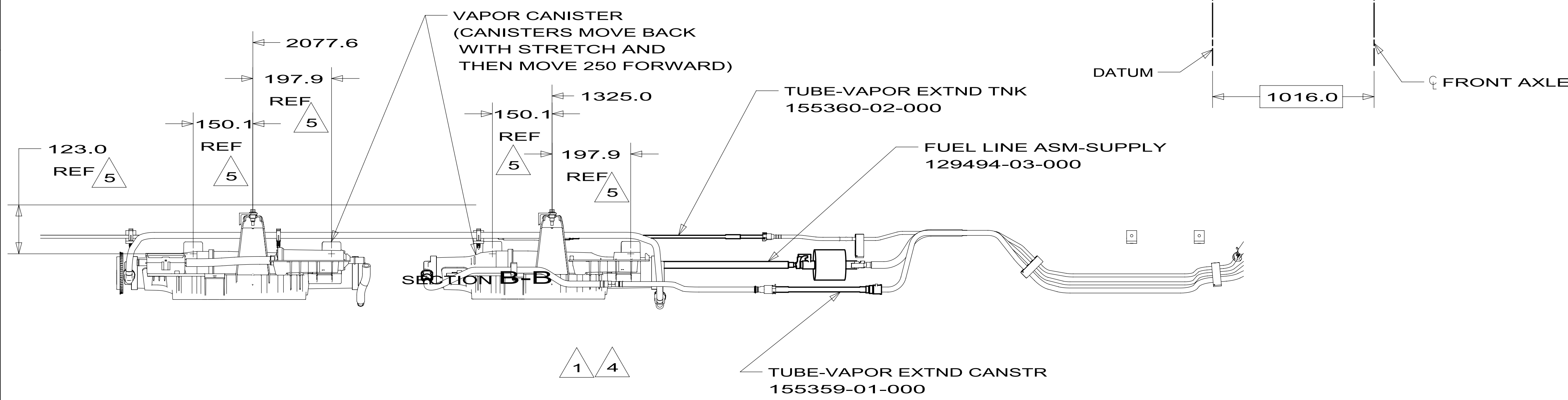
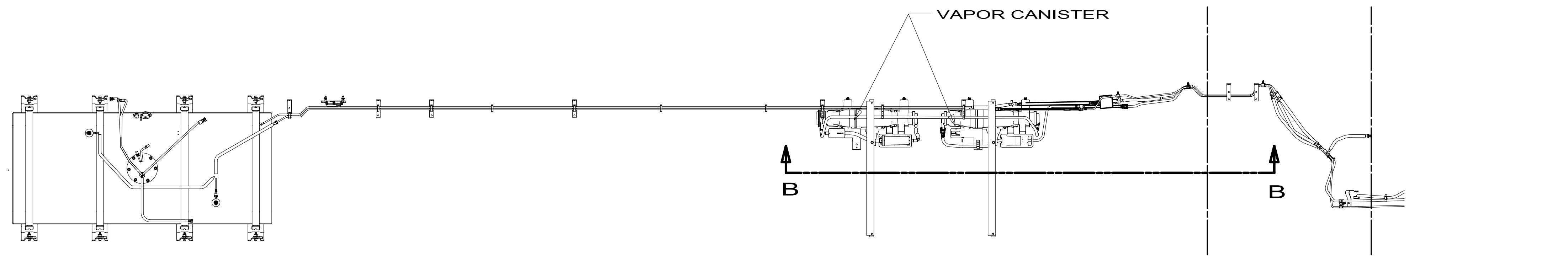
FIRST USED		09 WH	
DO NOT SCALE DRAWING			
TITLE: FUEL SYSTEM INSTL-FUEL FIL			
SHEET 11	PART NO	167443	REV



P P



D37L
J37F
J38N
155029-05



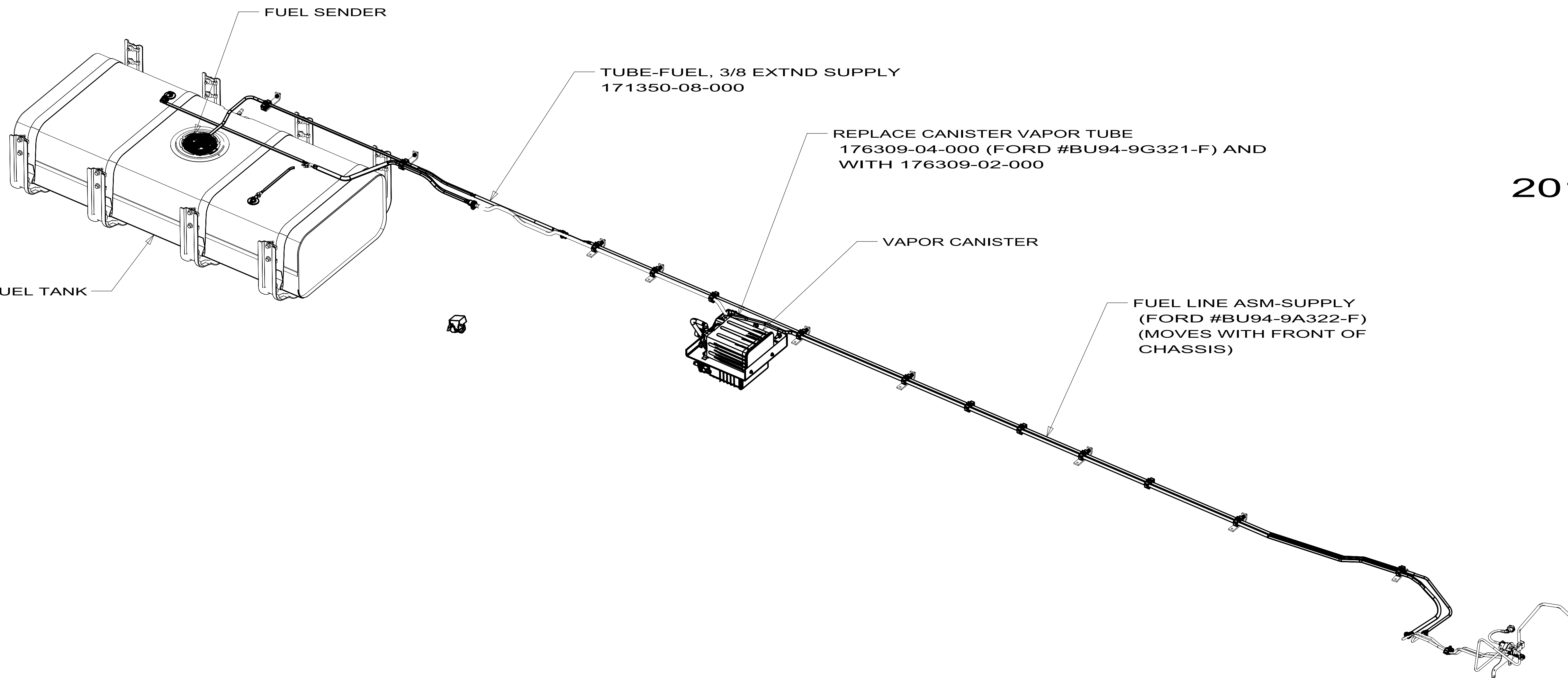
248" WHEELBASE
228" STRETCHED TO 248"

FIRST USED		
2006 F53 FORD		
DO NOT SCALE DRAWING		
TITLE:		
FUEL SYSTEM INSTL-SUPPLY		
SHEET 5	PART NO 155029	REV

D37L
J37F
J38N
175442-07
2011 FORD CHASSIS

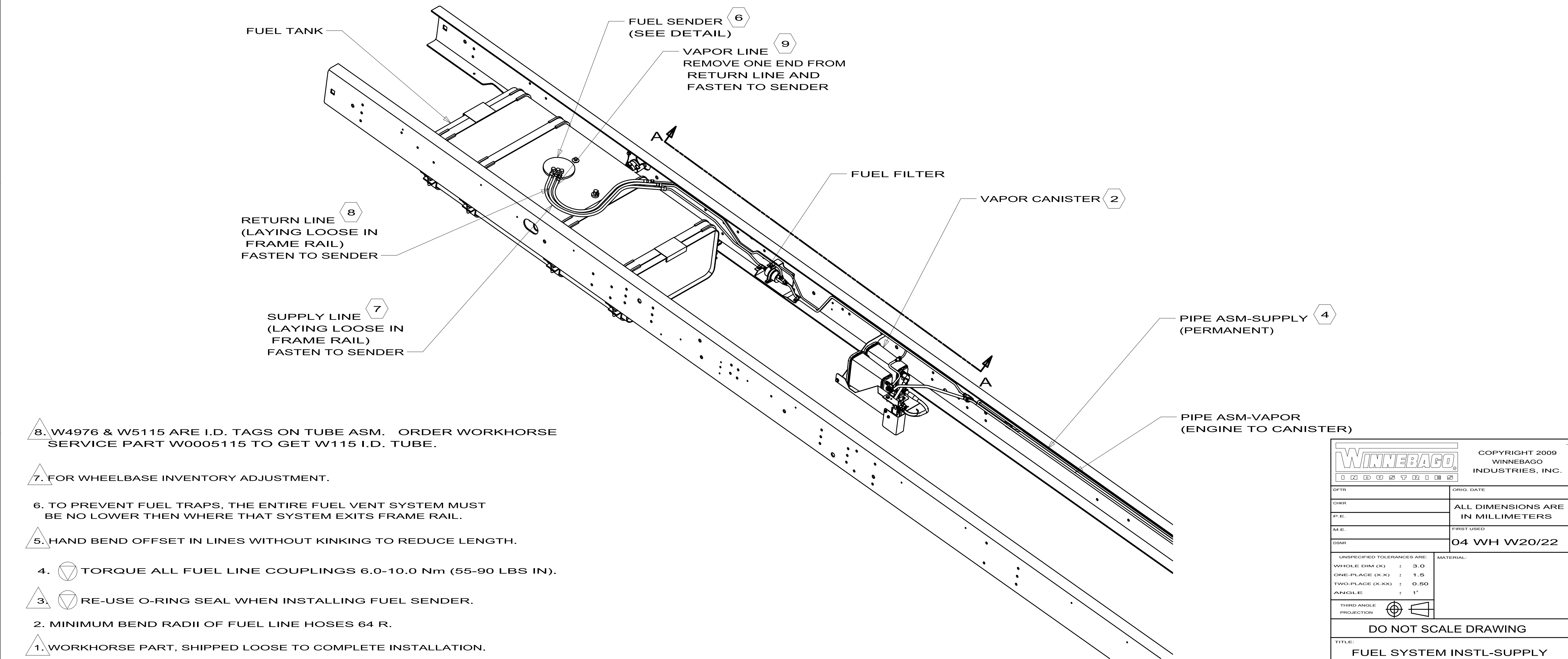
248"WHEELBASE
228" STRETCHED TO 248"

FIRST USED			11 FD MH
DO NOT SCALE DRAWING			
TITLE:			FUEL SYSTEM INSTL-SUPPLY
SHEET	7	PART NO	175442



8		7		6	5	4	3	2	1	
DWG NO	WHEEL BASE	FUEL LINE ASM-SUPPLY		TUBE-EVAP EMIS, CANISTER						
149048-01	190"	-----		-----		E30W				
149048-02	208"	-----		-----		D31E D33C E32K				
149048-03	190" TO 220"	98759-05-000		148192-02-000		NOT USED				
149048-04	208" TO 220"	98759-01-000		148192-02-000		J32H				
149048-05	228"	-----		-----		D35J, J35P, J35Z				
149048-06	228" TO 248"	98759-02-000		148192-04-000		D37L J37F J38N				
149048-07	228" TO 266"	98759-09-000		148192-05-000		NOT USED				
149048-08	158.5"	-----		-----		E26P				
149048-09	190" TO 208"	98759-02-000 		148192-06-000		NOT USED				
149048-10	208" TO 228"	98759-02-000		148192-03-000		 J35Z,J35P STRETCH				
149048-11	228" TO 220"	REPLACE W4976 (228) WITH W5115(208) ADD 98759-01-000 		148192-02-000		 NOT USED				
149048-12	228" TO 208"	REPLACE W4976 (228) WITH W5115(208) ADD 98759-01-000 		148192-06-000		 NOT USED				

RELEASE		REV	DATE	DWG NO		149048	
REV	ZONE	REVISION RECORD			DATE	DFT-ORIG	



 8. W4976 & W5115 ARE I.D. TAGS ON TUBE ASM. ORDER WORKHORSE SERVICE PART W0005115 TO GET W115 I.D. TUBE.

 7. FOR WHEELBASE INVENTORY ADJUSTMENT.

6. TO PREVENT FUEL TRAPS, THE ENTIRE FUEL VENT SYSTEM MUST BE NO LOWER THEN WHERE THAT SYSTEM EXITS FRAME RAIL.

 5. HAND BEND OFFSET IN LINES WITHOUT KINKING TO REDUCE LENGTH.

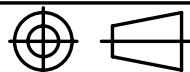
4.  TORQUE ALL FUEL LINE COUPLINGS 6.0-10.0 Nm (55-90 LBS IN).

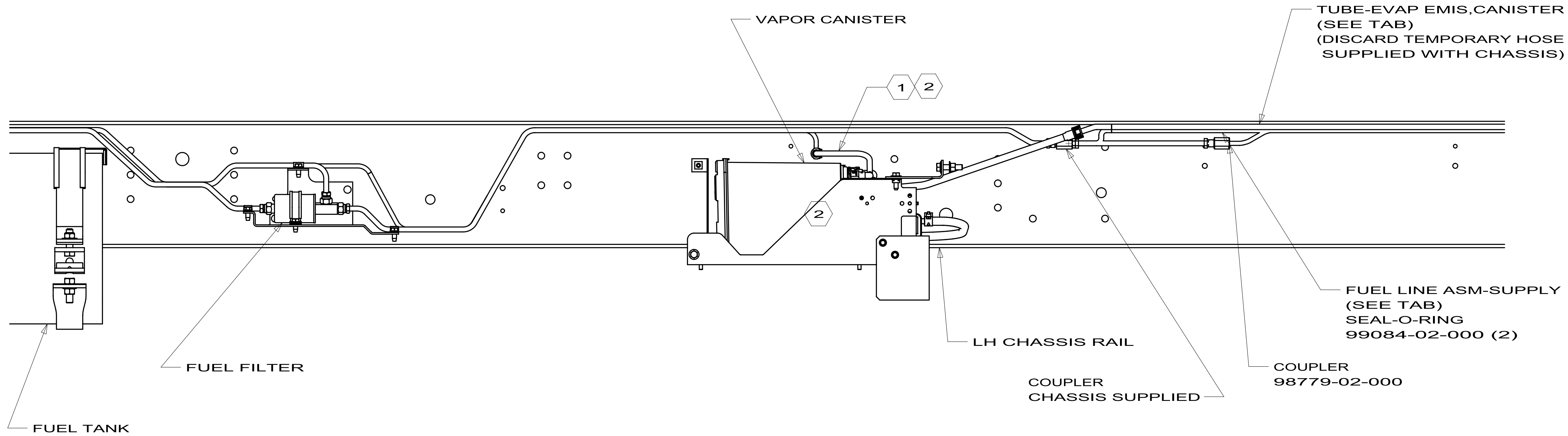
 3.  RE-USE O-RING SEAL WHEN INSTALLING FUEL SENDER.

2. MINIMUM BEND RADII OF FUEL LINE HOSES 64 R.

 1. WORKHORSE PART, SHIPPED LOOSE TO COMPLETE INSTALLATION.

NOTES:

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DFT-OR		ORIG. DATE			
CHK-OR		ALL DIMENSIONS ARE IN MILLIMETERS			
P.E.					
M.E.		FIRST USED			
DSNR		04 WH W20/22			
UNSPECIFIED TOLERANCES ARE:		MATERIAL:			
WHOLE DIM (X) ± 3.0					
ONE-PLACE (X.X) ± 1.5					
TWO-PLACE (X.XX) ± 0.50					
ANGLE ± 1°					
THIRD ANGLE PROJECTION					
DO NOT SCALE DRAWING					
TITLE:					
FUEL SYSTEM INSTL-SUPPLY					
SHEET 1 OF 2		PART NO	149048		
		REV			



VIEW A-A
STRETCH DETAIL

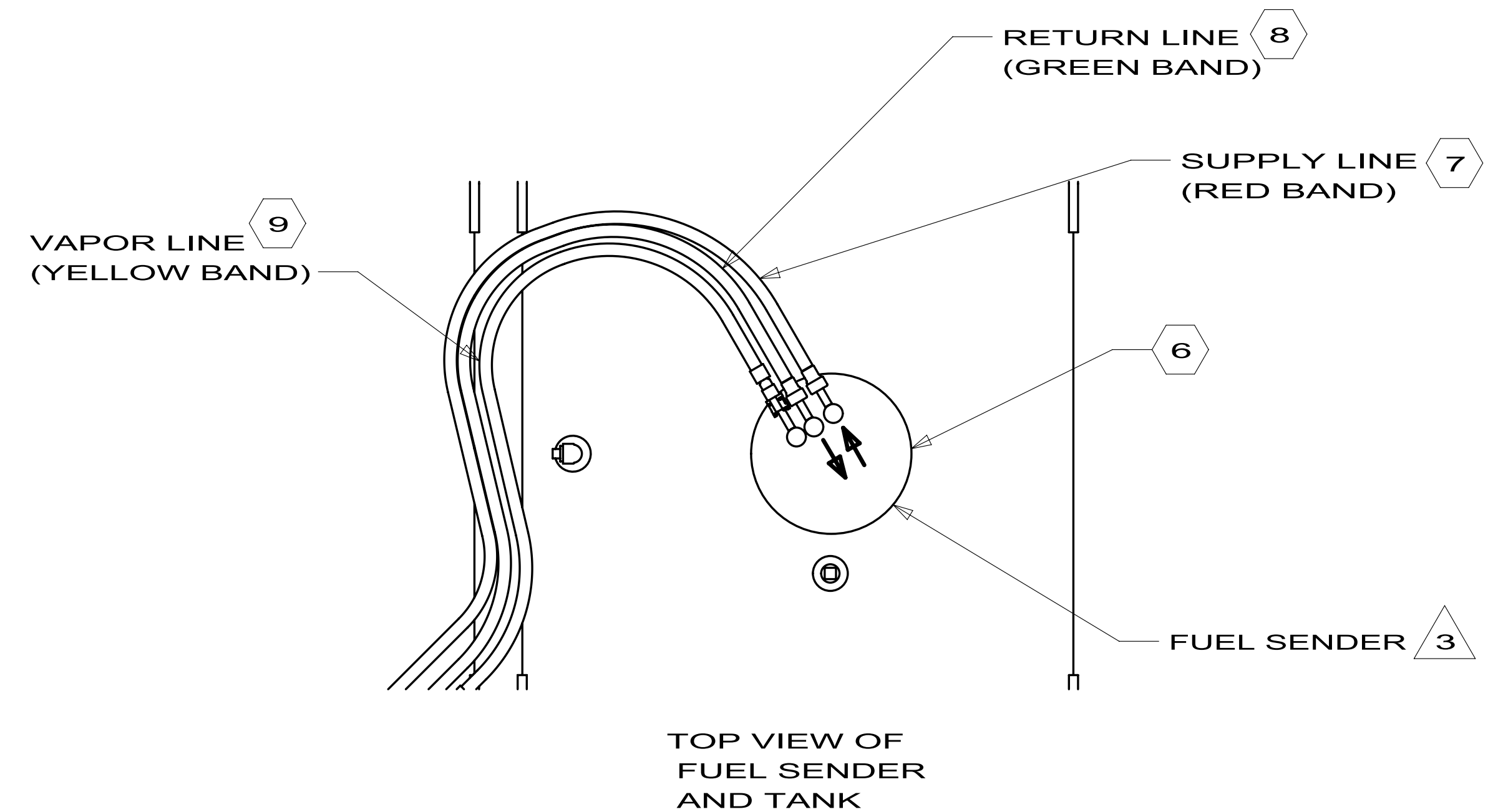
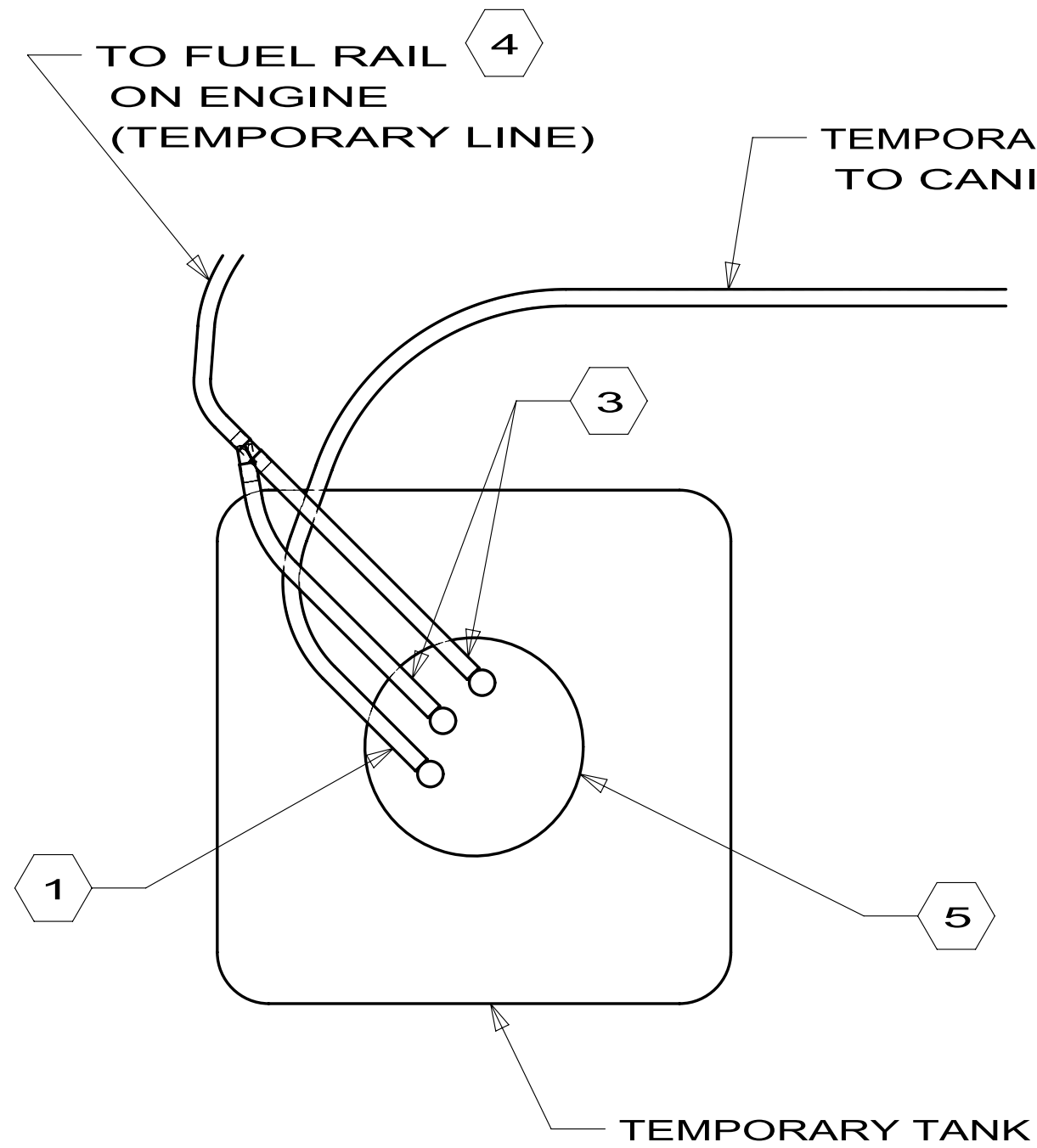
Conversion Temporary to Final Fuel System

Relieve fuel pressure from system (service port on engine right fuel rail or run engine without electrical connection to pump/sender; see service manual @ Chassis Warranty)

- 1 Temporary hose from sender in temporary tank to vapor canister
Disconnect both ends; remove from chassis and discard
- 2 Vapor Canister
Remove plastic bag from permanent vapor line fitting
Connect permanent fitting to canister port (temporary hose disconnected)
- 3 Fuel Sender temporary feed/return hoses to wye with green retainer clips
Release clips and push thru opposite side of connector
Pull fittings loose
- 4 Fuel rail on engine
Disconnect temporary line (from fuel sender/wye) and discard
Remove cap from permanent supply line; Connect line at rail
- 5 Fuel Sender, temporary tank, hoses disconnected
Remove retaining ring; carefully remove sender
- 6 Fuel tank, chassis mounted between frame rails, aft of axle
Remove retaining ring, discard temporary block off plate
Carefully install sender, index in notch, install retaining ring

1 Chassis Fuel Lines at tank

- 7 Black Braid hose, Red FEED tag; connect to sender port arrow out (to end)
- 8 Black Braid hose, Green RETURN tag; connect to sender port arrow in (to center)
- 9 Black Plastic tube; connect to remaining sender port



TOP VIEW OF
FUEL SENDER
AND TANK

FIRST USED		04 WH W20/22	
DO NOT SCALE DRAWING			
TITLE: FUEL SYSTEM INSTL-SUPPLY			
SHEET 2	PART NO	149048	REV

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1

DWG NO	UNIT	WHEELBASE	CHASSIS	GVWR	TIRE SIZE	FRONT JACK DETAIL	REAR JACK DETAIL	SHEET
173520-01	E26P	158.5"	WH W16	16,000#	19.5"	C	D	2,3,6,7,9
173520-02	E26P	158.5"	FORD F53	18.000#	19.5"	J	K	2,3,4,6,7,9
173520-03	E30W	190"	WH W18/20	18,000#/20,500#	19.5"	C OR E	D OR F	2,3,4,6,7,9
173520-04	E30W	190"	FORD F53	18,000#	19.5"	J	K	2,3,4,6,7,9
173520-05	D31E/E32K	208"	WH W20/22	20,500#/22,000#	19.5"	E	F	2,3,4,6,7,9
173520-06	D31E/E32K	208"	FORD F53	22,000#	19.5"	J	K	2,3,4,6,7,9
173520-07	D33C	220"	WH W20/22	20,500#/22,000#	19.5"	E	F	2,3,4,6,7,9
173520-08	D33C	220"	FORD F53	22,000#	19.5"	J	K	2,3,4,6,7,9
173520-09	D35J	228"	WH W22	22,000#	22.5"	G	H	2,3,4,6,7,9
173520-10	D35J	228"	FORD F53	22,000#	19.5"/22.5"	J OR L	K OR M	2,3,4,6,7,9
173520-11	D37L	248"	WH W22	22,000#	22.5"	G	H	2,3,4,6,7,9
173520-12	D37L	248"	FORD F53	22,000#	22.5"	L	M	2,3,4,6,7,9

→

21

CLAMP OR WIRE TIE ALL HOSES AT 900 mm MAXIMUM INTERVALS AND WHERE NECESSARY TO PREVENT HOSES FROM CONTACTING MOVING PARTS OR HEAT PRODUCING ITEMS.

20

RUN RIGHT FRONT JACK HOSES AND BATTERY POWER CABLE IN CHANNEL ASSEMBLY. WRAP WIRE TIES 008343-04-000 AROUND CHANNEL APPROXIMATELY 200 mm APART TO SECURE HOSE AND WIRES.

19

USE PLUG 061420-15-000 WHEN LEVELING SYSTEM IS NOT INSTALLED.

18

HOSE MARKING: HOSES ARE LABELED AT EACH END WITH POWER GEAR PART NUMBER, LENGTH OF HOSE AND JACK LOCATION.

17

MOUNT CONTROL MODULE SO THAT ARROW IS POINTING TO FRONT OF VEHICLE.

16

TO SET LEVEL SENSOR IN THE CONTROL MODULE REFER TO THE POWER GEAR SET-UP AND CALIBRATION PROCEDURE.

15

TO FILL THE HYDRAULIC RESERVOIR REFER TO THE POWER GEAR OIL FILL AND PURGE PROCEDURE.

14

SEE WIRING INSTL-FRONT END FOR "JACK DOWN" LIGHT AND PARK BRAKE WIRING.

13

ROTATE RIGHT REAR JACK SPRING 90° ON D35J TO AVOID COMPARTMENT. ⚠ TORQUE SPRING BOLT TO 30-33 FT LBS.

12

ROTATE LEFT REAR JACK SPRING 90° ON WORKHORSE CHASSIS TO AVOID FUEL FILL NECK. ⚠ TORQUE SPRING BOLT TO 30-33 FT LBS.

11

⚠ TORQUE TO 13-17 FT LBS.

10

⚠ TORQUE TO 20-25 FT LBS.

9.

⚠ TORQUE HOSE FITTINGS TO 15-18 FT LBS. FITTINGS TO BE SNUGGED UP THEN BACKED OFF 1/4 TURN THEN TIGHTENED TO TORQUE VALUE.

8.

⚠ TORQUE FITTINGSA TO JACK TO 13-15 FT LBS.

7.

⚠ TORQUE TO 100-120 FT LBS.

6.

HOSES TO BE BENT NO LESS THAN 1.5 INCH RADIUS TO AVOID KINKS OF FLOW RESTRICTIONS.

5.

COIL EXCESS HOSE AND LAY ON TOP OF FUEL TANK. TIE HOSES TOGETHER WITH TIE 008343-04-000.

4.

COVER ALL HOSES FULL LENGTH WITH CONDUIT 041953-09-000.

3.

FOR INFORMATION ON REMOTE SWITCHES SEE BODY WIRING INSTL-12V.

2.

SEE BATTERY INSTALLATION FOR ADDITIONAL INFORMATION.

1.

PARTS INCLUDED WITH LEVELING KIT.

NOTES:

INDICATES CRITICAL SAFETY
PROCEDURE TO BE FOLLOWED.

WINNEBAGO

INDUSTRIES

DFTR

CHRR

P.E.

M.E.

DSNR

UNSPECIFIED TOLERANCES ARE:

WHOLE DIM (X) : 3

ONE-PLACE (X.X) : 1.5

TWO-PLACE (X.XX) : 0.50

ANGLE : 1°

MATERIAL:

THIRD ANGLE
PROJECTION

DO NOT SCALE DRAWING

TITLE:

LEVELING SYSTEM INSTL-P/G

SHEET 1 OF 9

PART NO 173520

REV

REF:

1

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WINNEBAGO
INDUSTRIES, INC.

RELEASE

REV A

DATE

DWG NO 173520

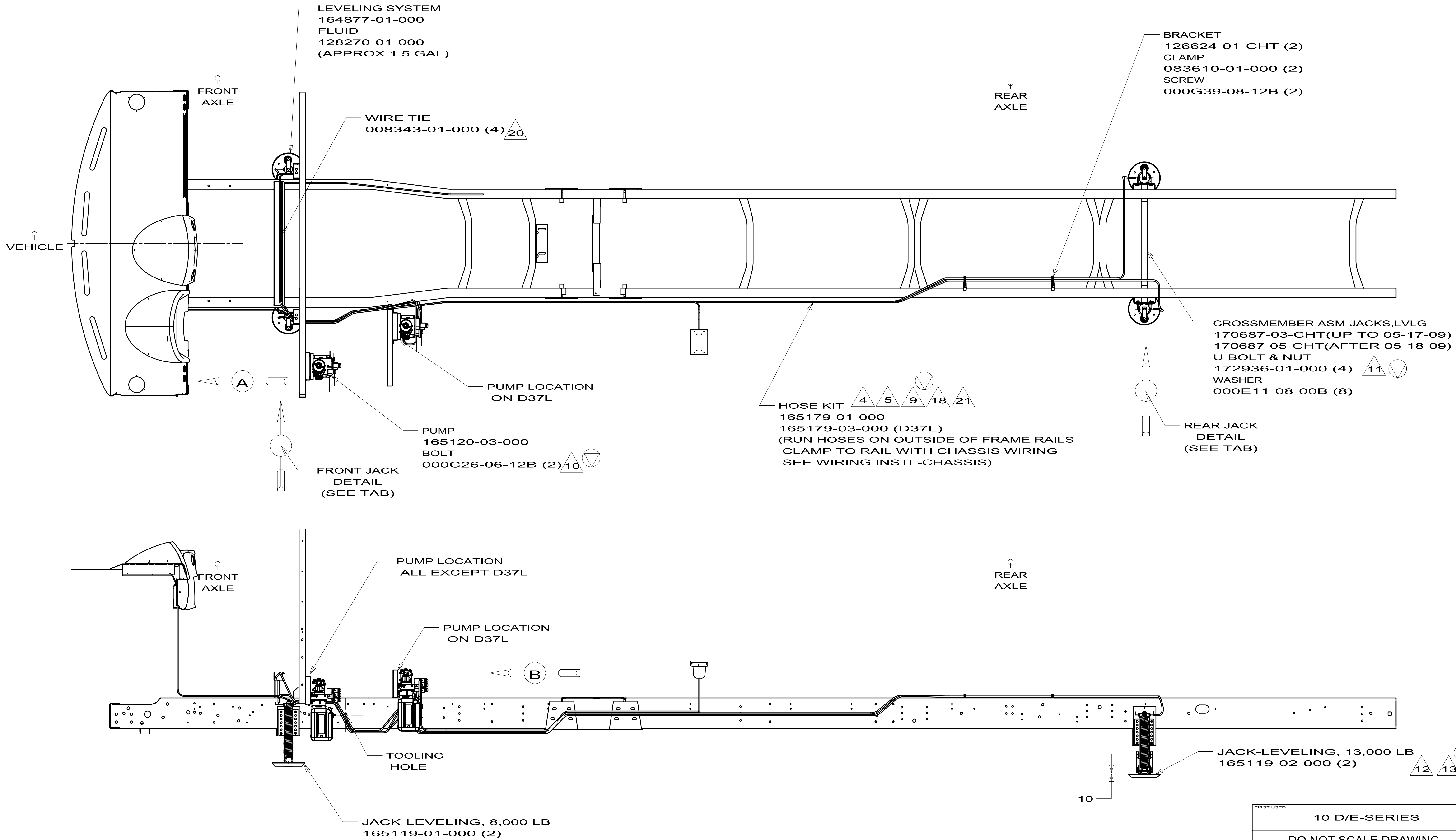
REV ZONE

REVISION RECORD

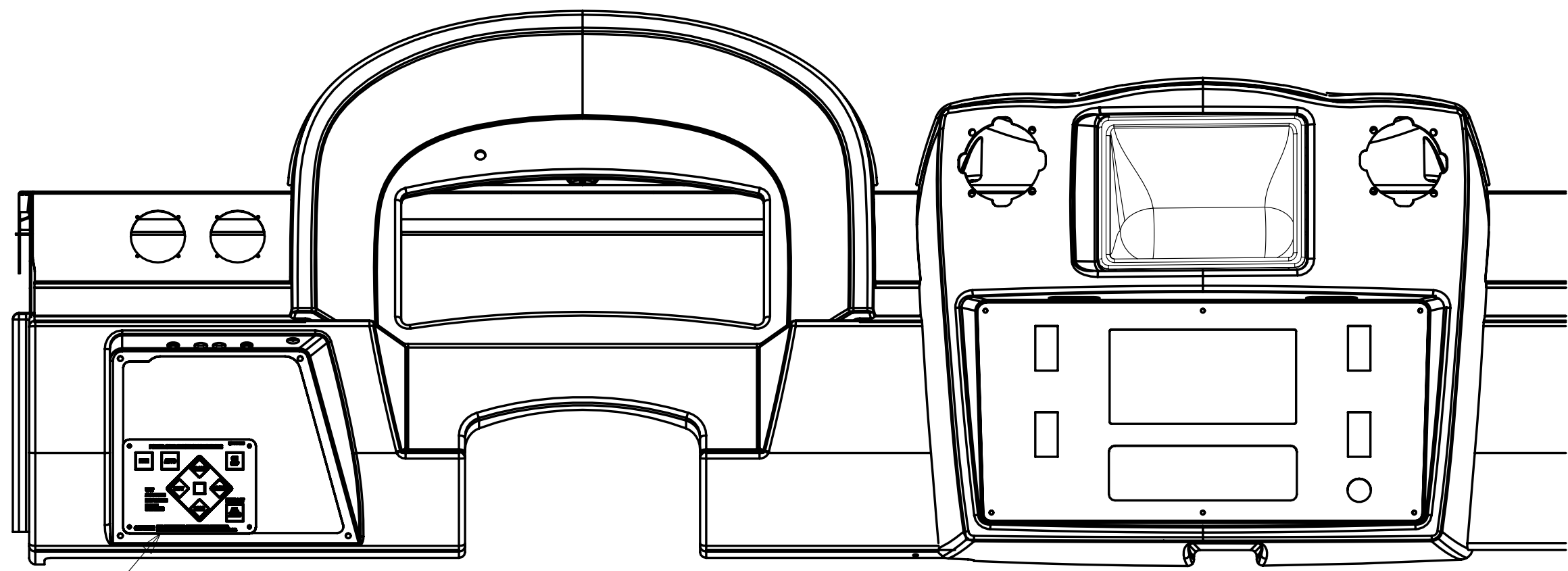
DATE

DFTR.Orig

10/13/2009

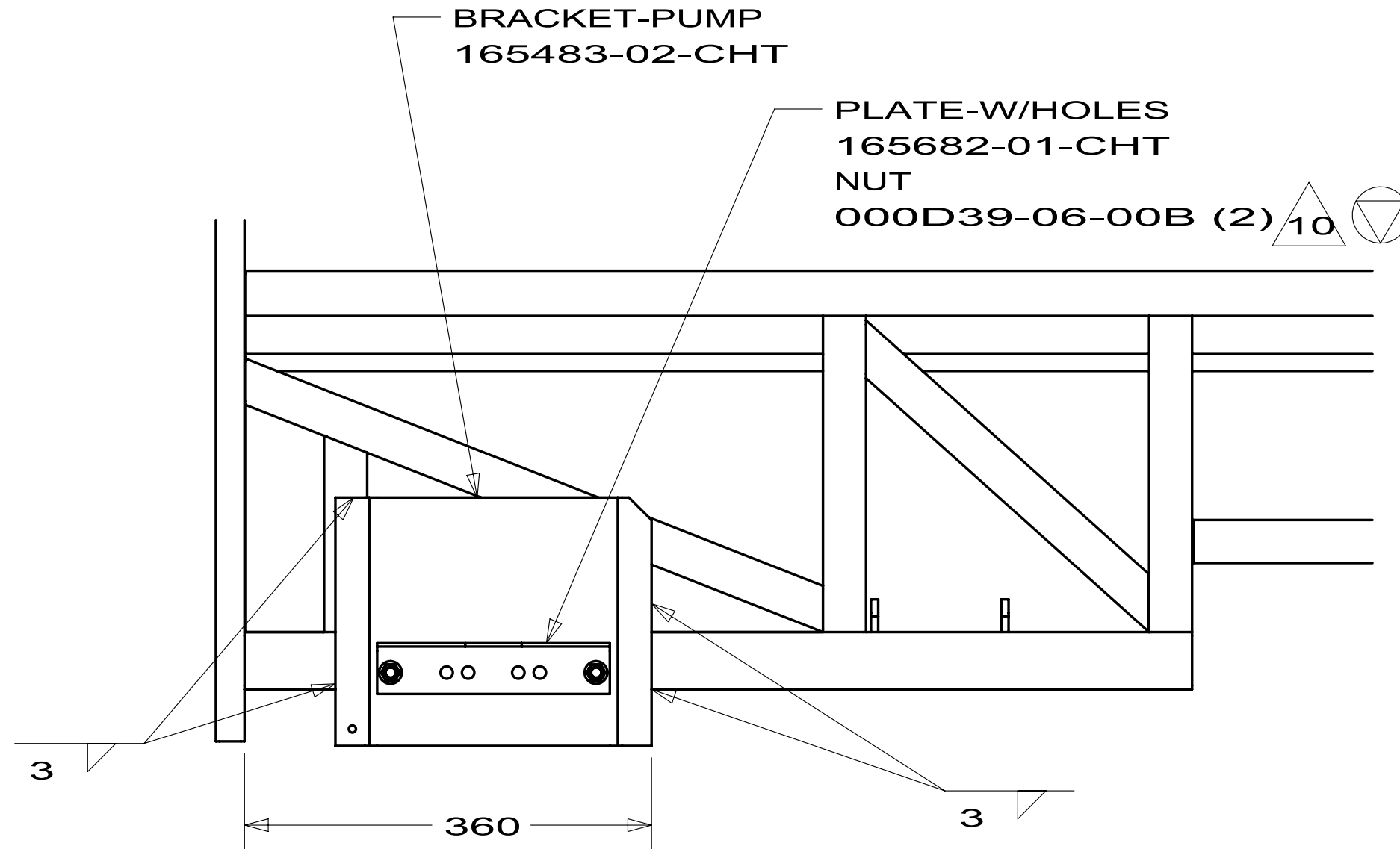


FIRST USED		
10 D/E-SERIES		
DO NOT SCALE DRAWING		
TITLE: LEVELING SYSTEM INSTL-P/G		
SHEET 2	PART NO 173520	REV

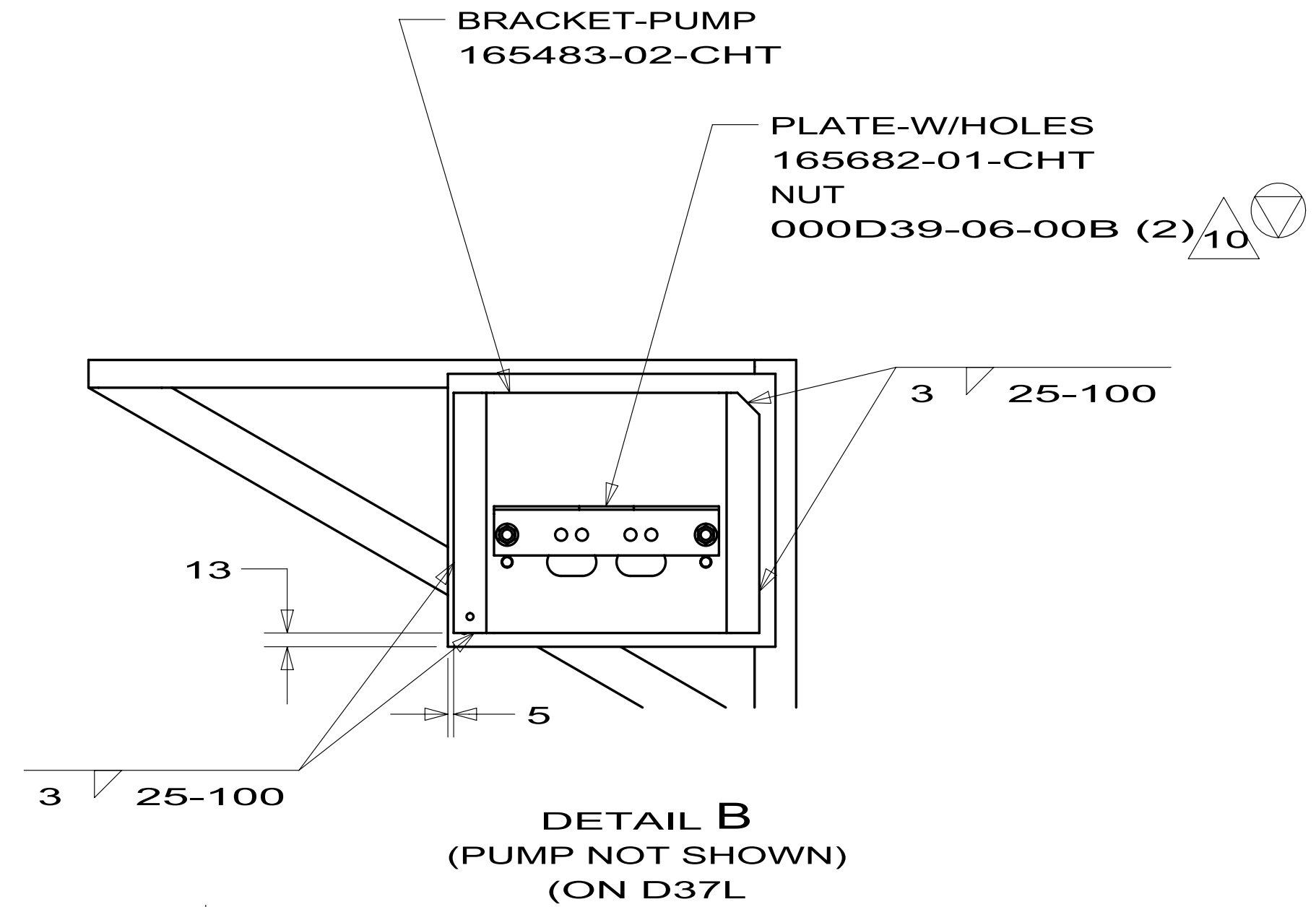


TOUCH PAD-LEVELING SYSTEM
164881-01-000
SCREW
000G11-08-08T (4) 3

DETAIL A

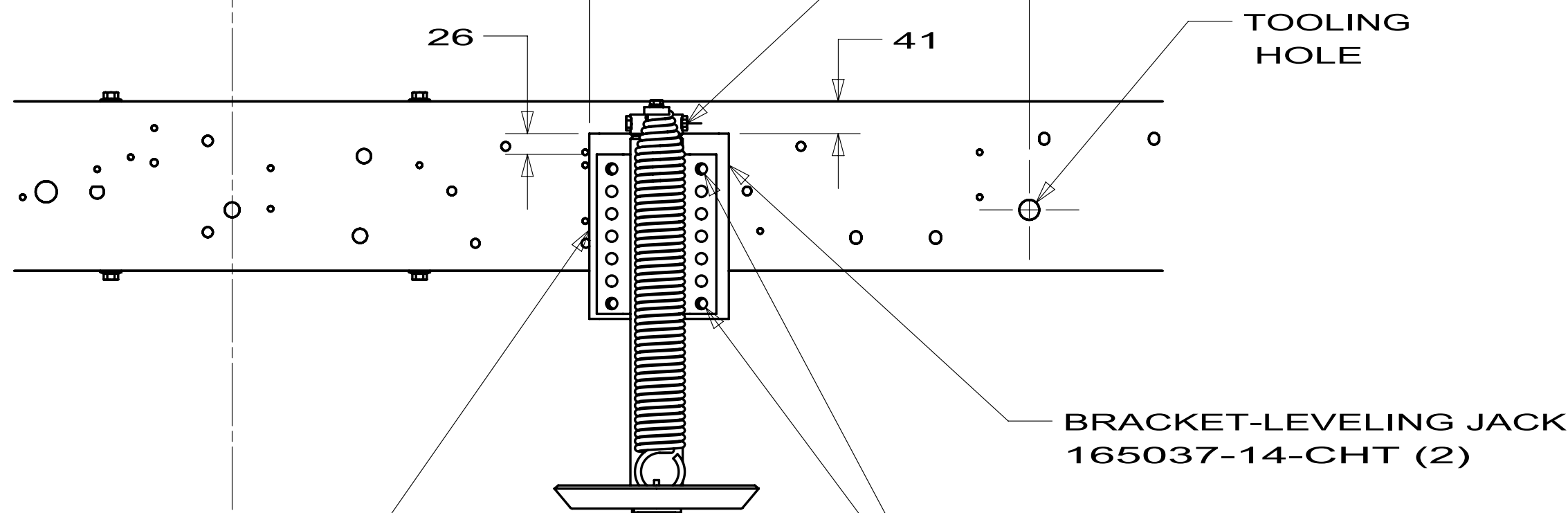


DETAIL B
(PUMP NOT SHOWN)
(ALL UNITS EXCEPT D37L)



DETAIL B
(PUMP NOT SHOWN)
(ON D37L)

FRONT AXLE
455 REF
561
ELBOW HOSE FITTING (1)
(BOTH FRONT JACKS)
(LEFT FACING REAR AND DOWN,
RIGHT FACING FRONT AND UP)

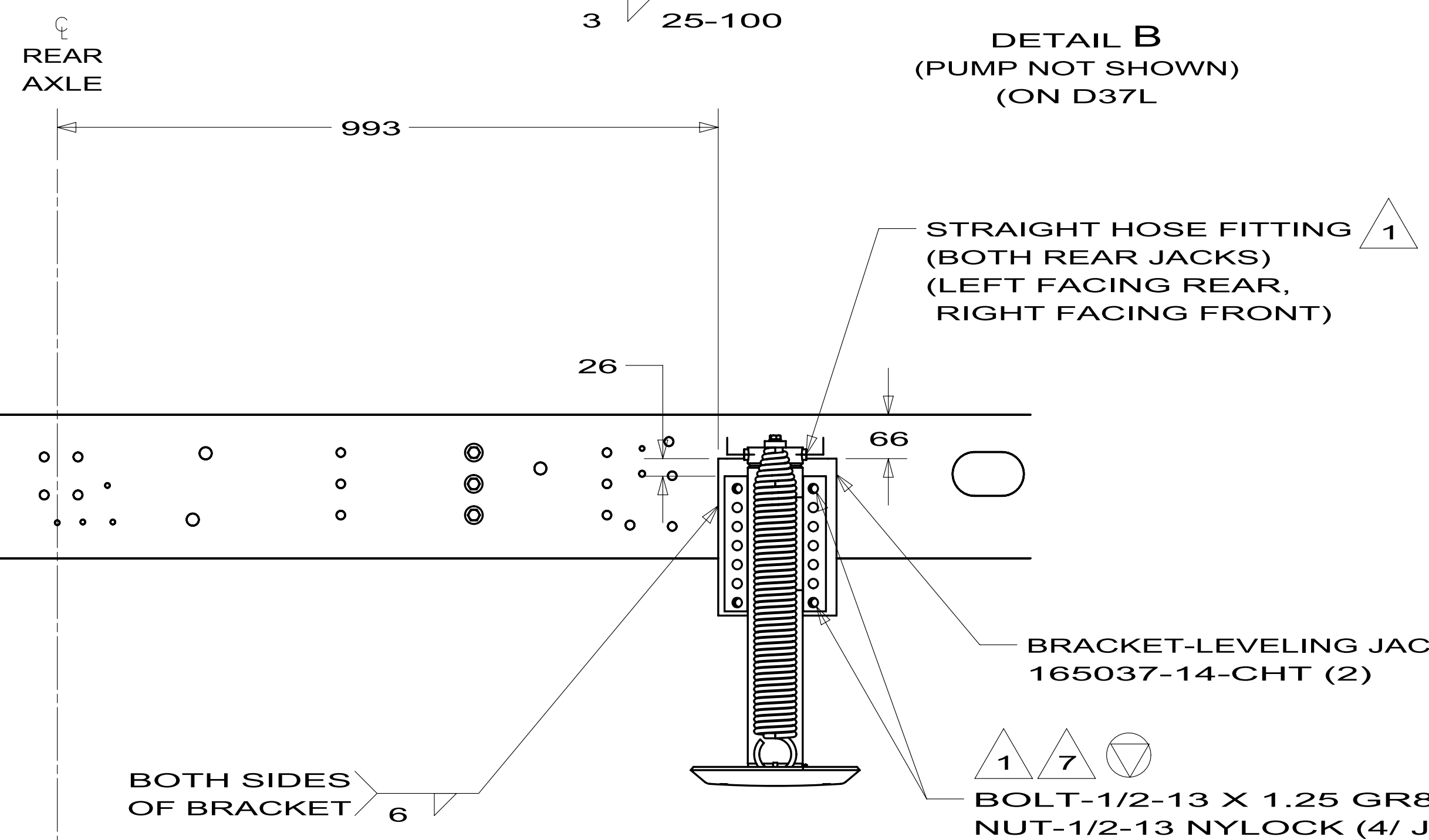


BRACKET-LEVELING JACK
165037-14-CHT (2)

BOLT-1/2-13 X 1.25 GR8 (4/ JACK)
NUT-1/2-13 NYLOCK (4/ JACK)

DETAIL C
(WH W16/18)
(W/ 19.5 TIRES)

BOTH SIDES
OF BRACKET 6



STRAIGHT HOSE FITTING (1)
(BOTH REAR JACKS)
(LEFT FACING REAR,
RIGHT FACING FRONT)

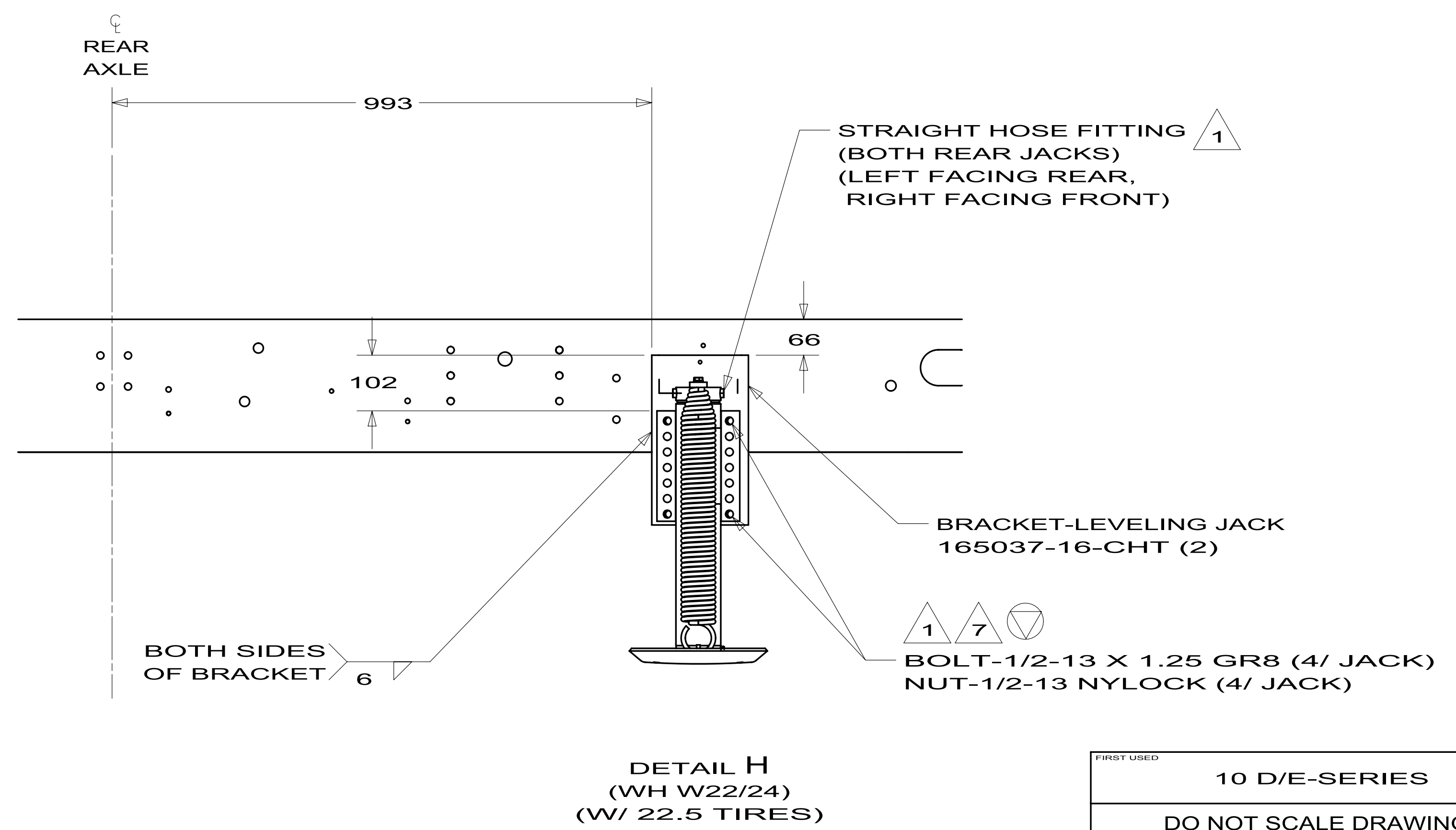
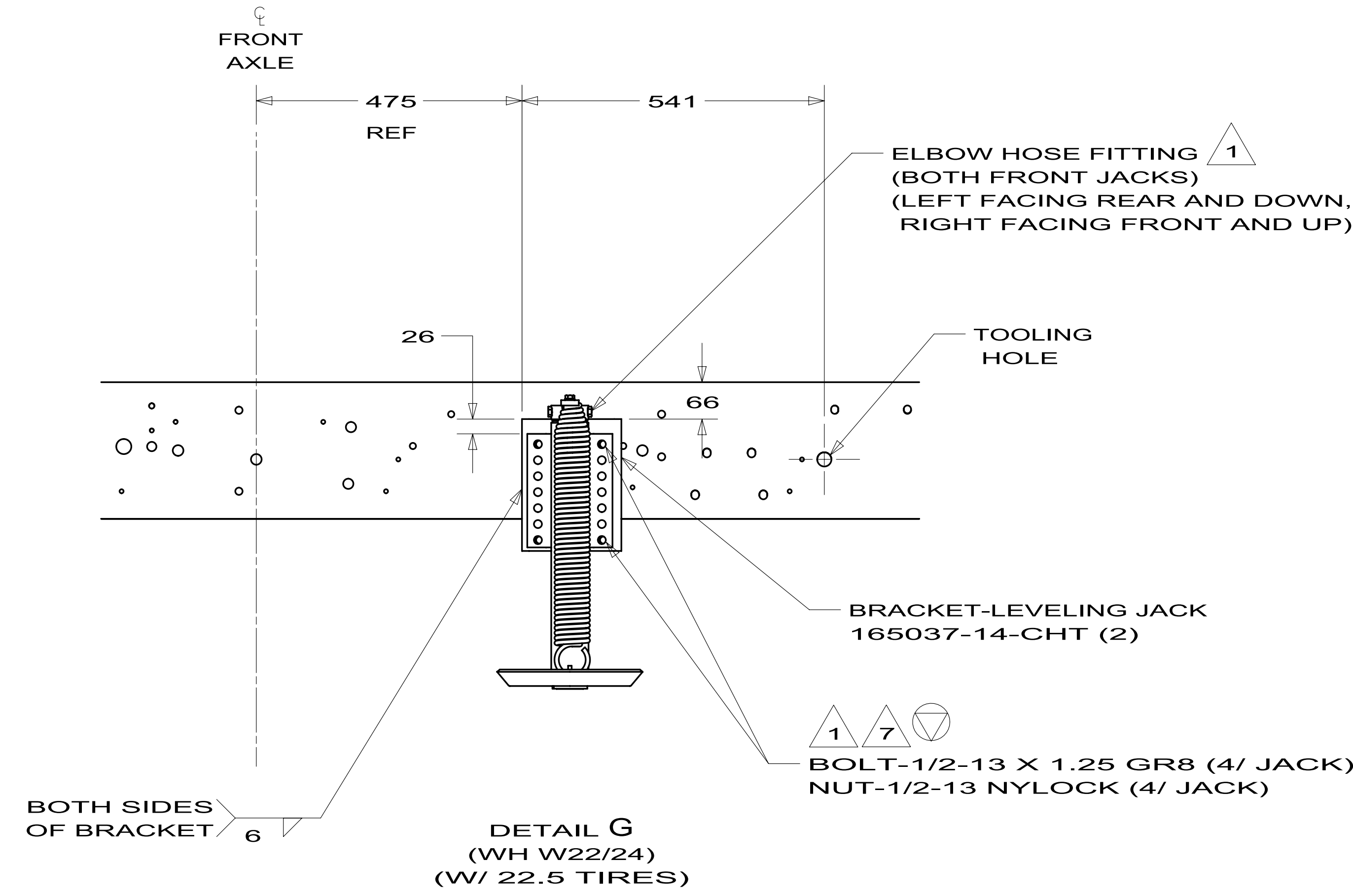
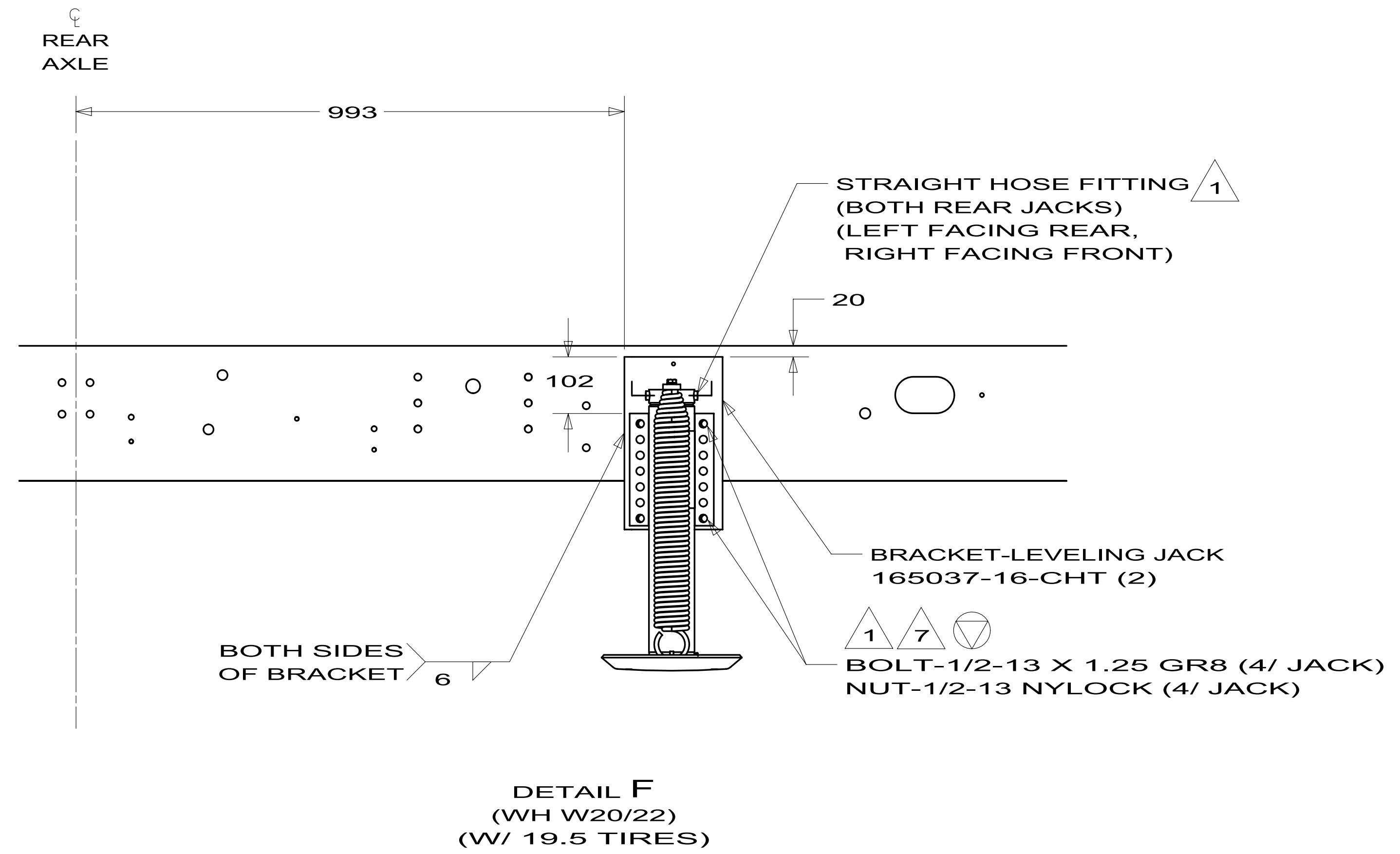
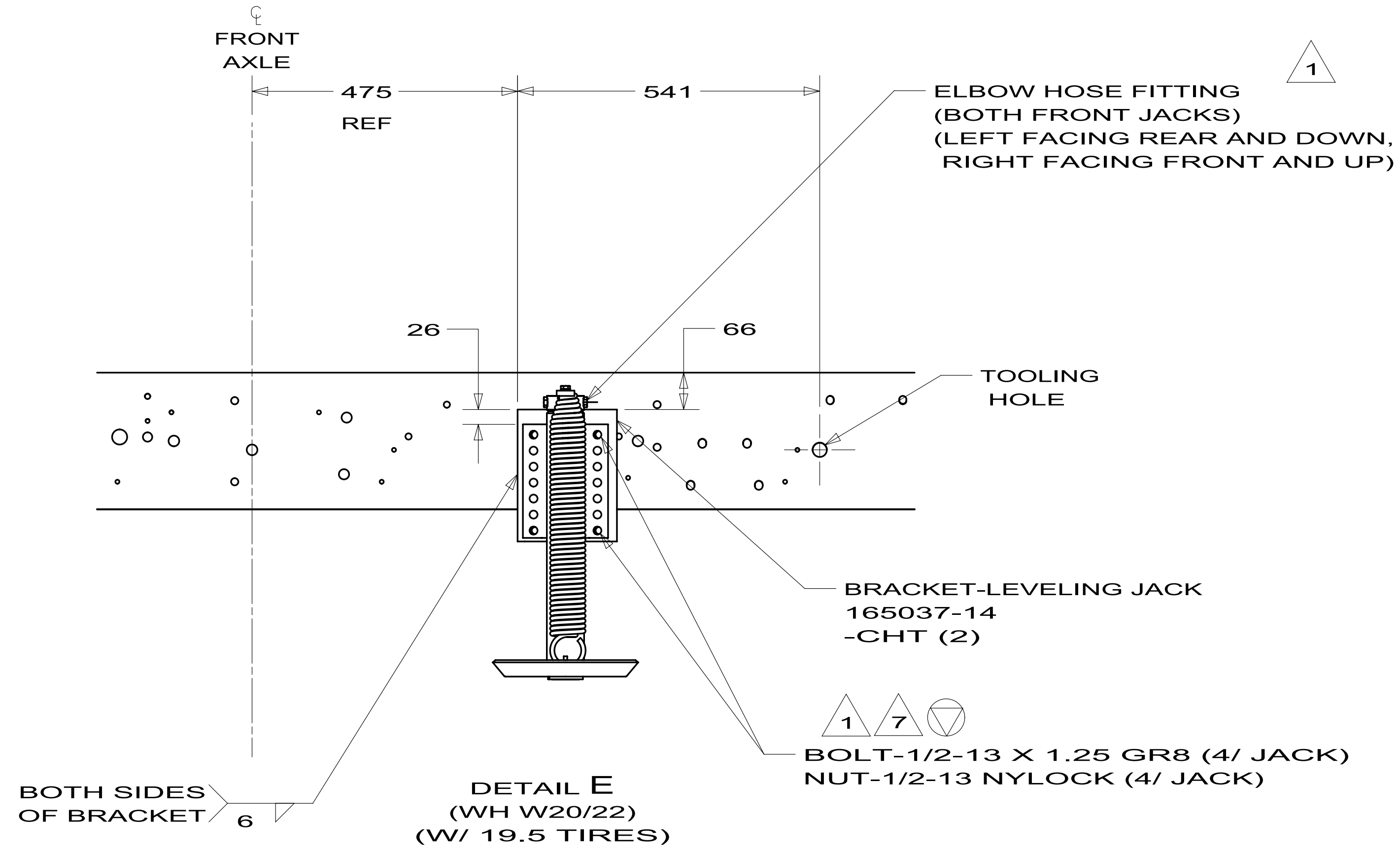
BRACKET-LEVELING JACK
165037-14-CHT (2)

BOLT-1/2-13 X 1.25 GR8 (4/ JACK)
NUT-1/2-13 NYLOCK (4/ JACK)

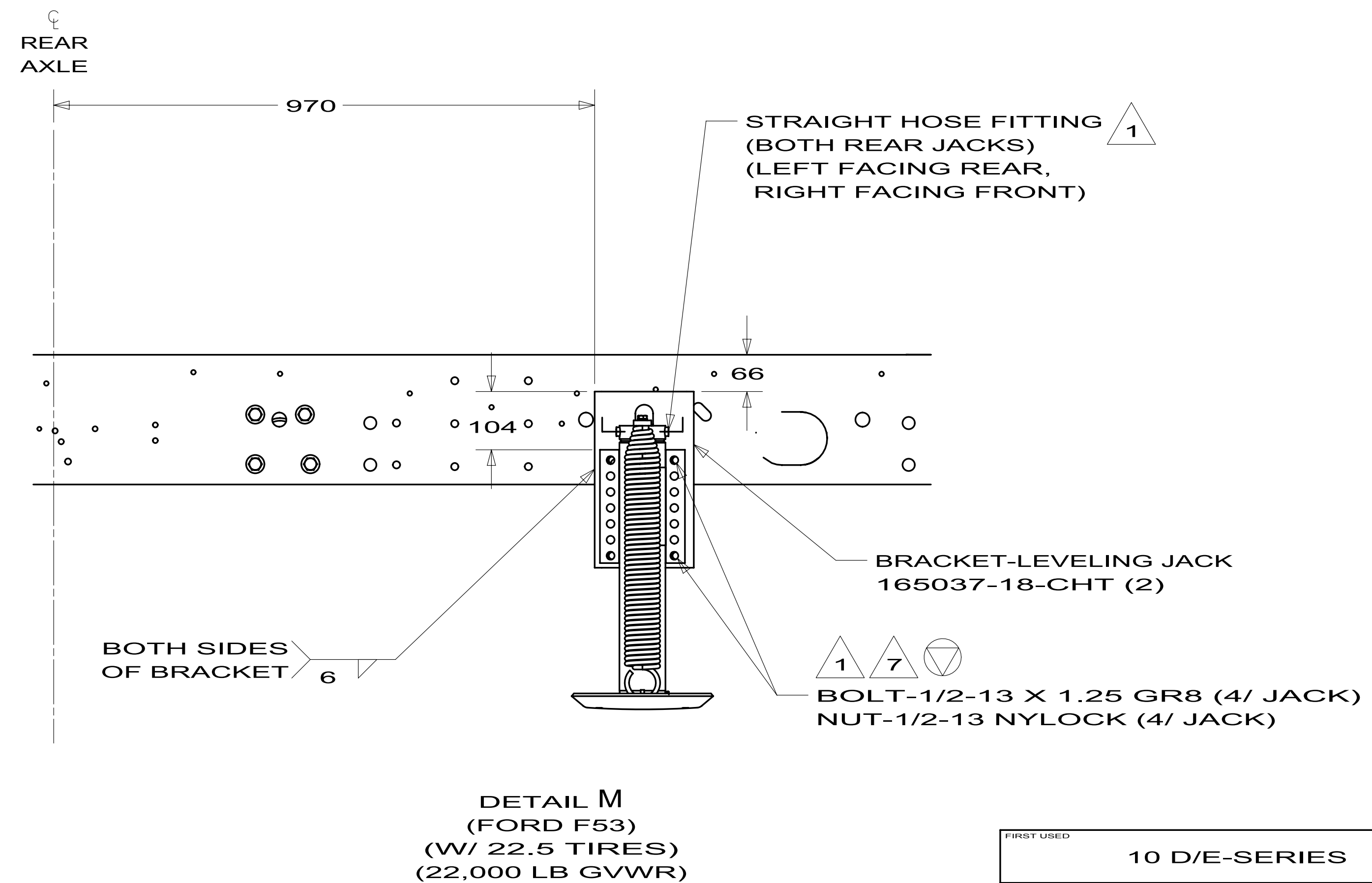
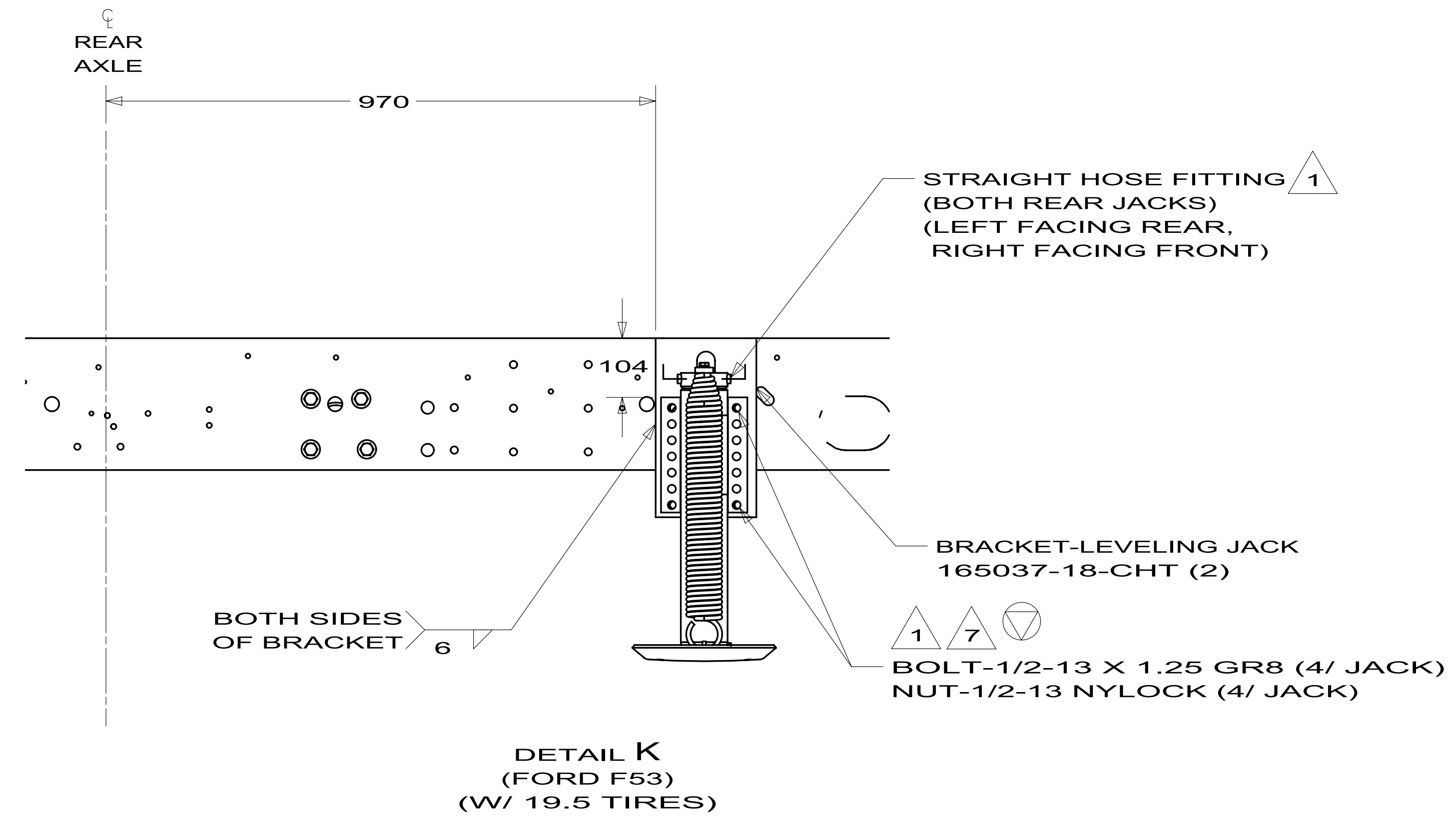
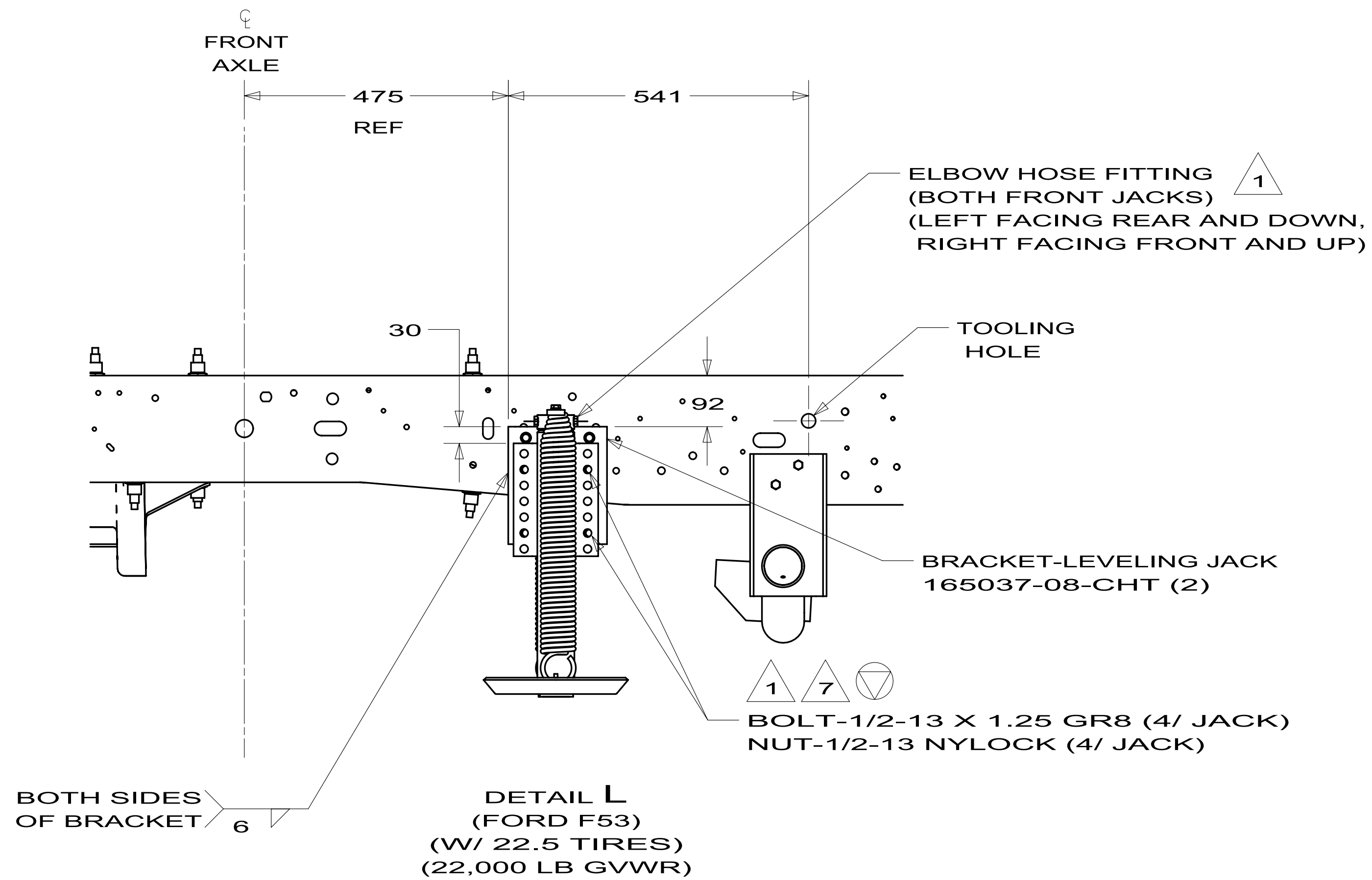
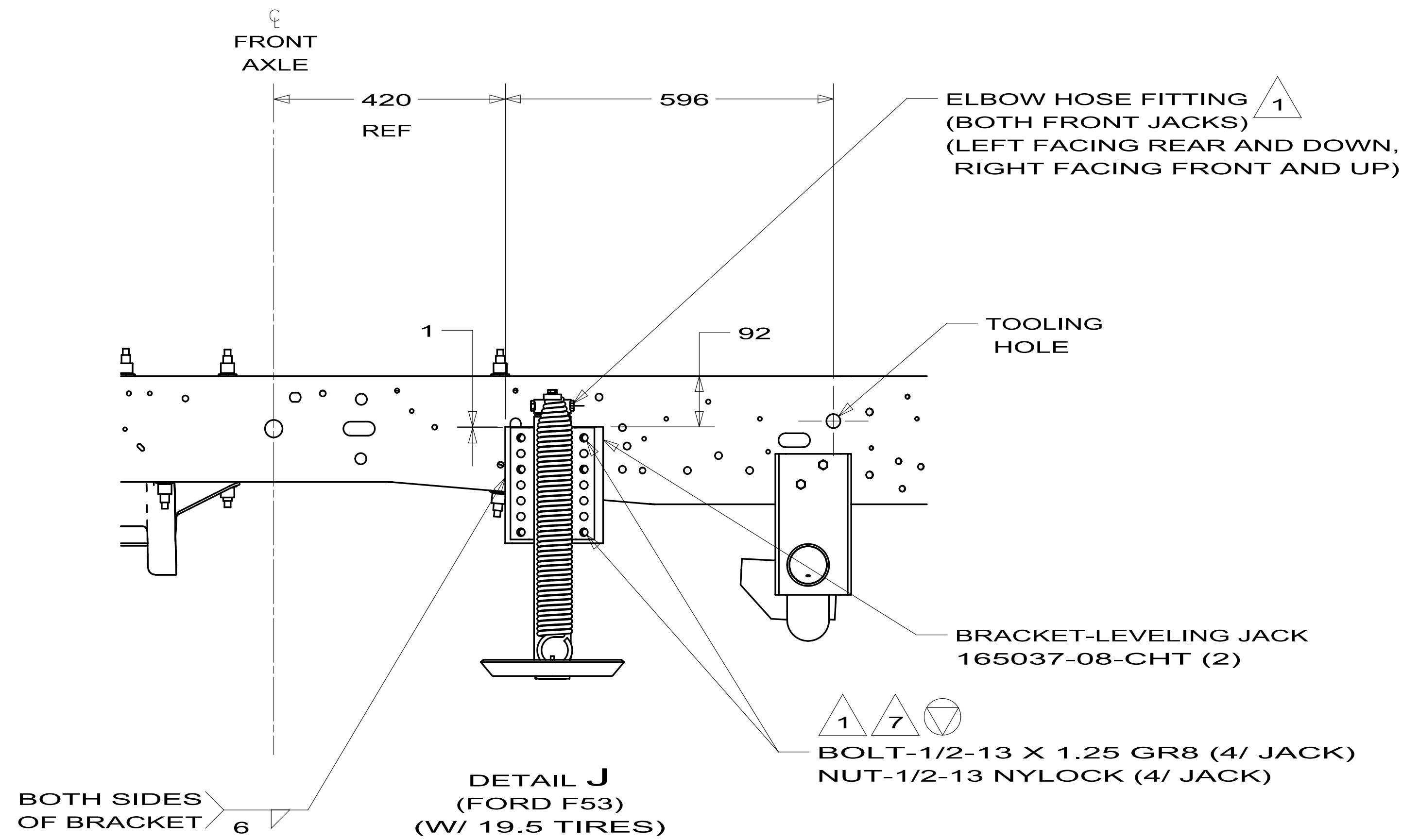
BOTH SIDES
OF BRACKET 6

DETAIL D
(WH W16/18)
(W/ 19.5 TIRES)

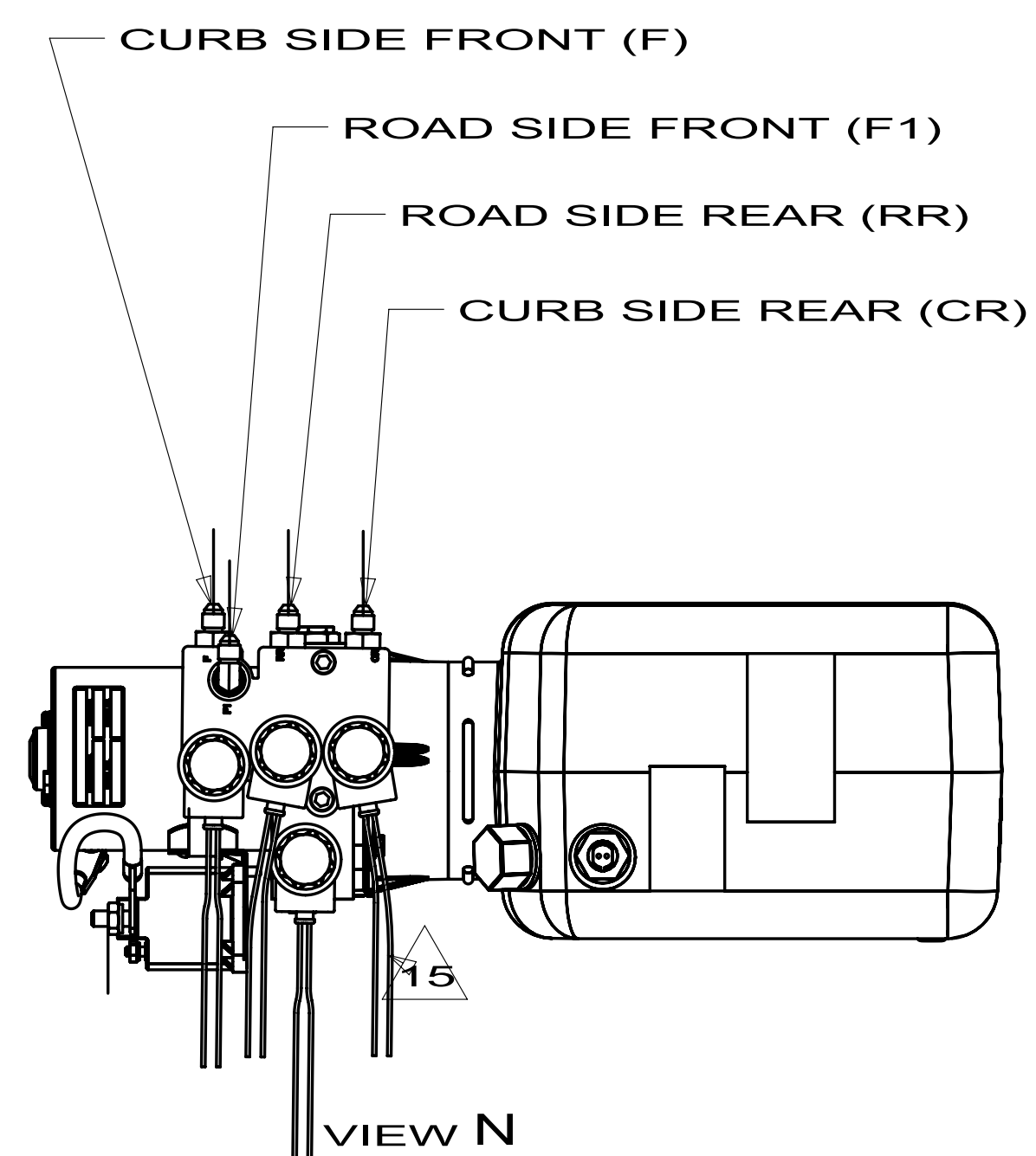
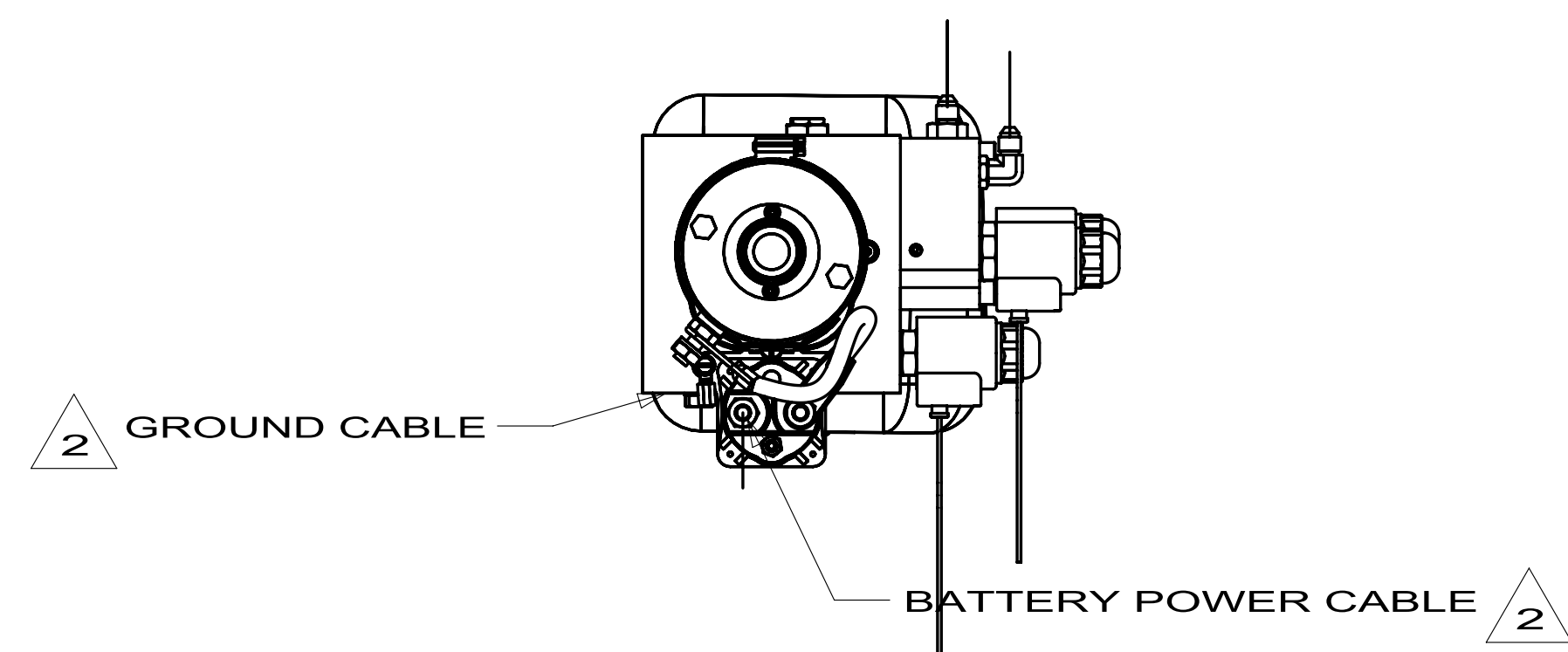
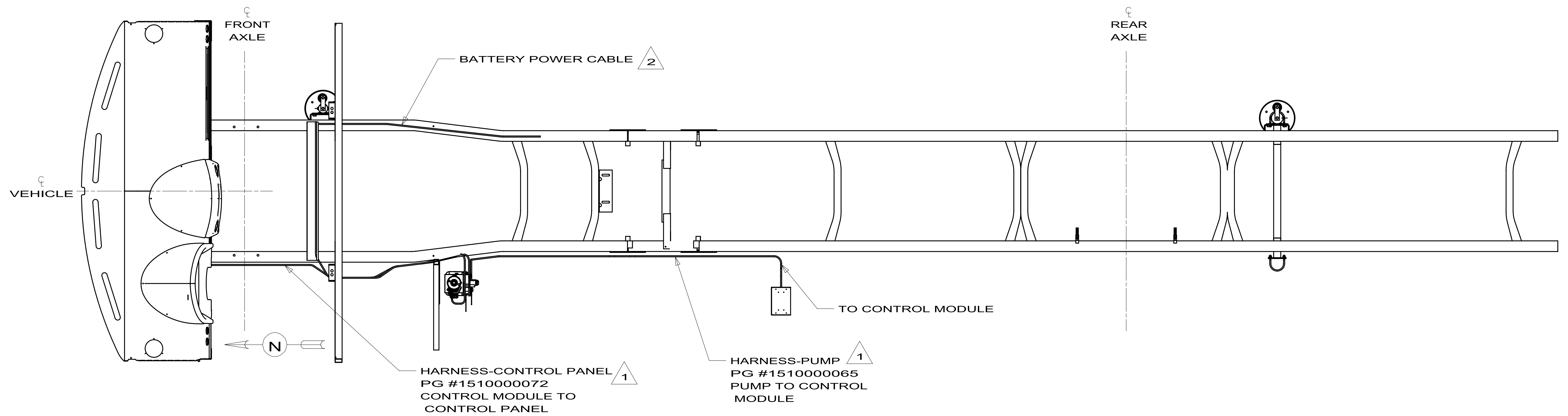
FIRST USED		
10 D/E-SERIES		
DO NOT SCALE DRAWING		
TITLE: LEVELING SYSTEM INSTL-P/G		
SHEET 3	PART NO 173520	REV



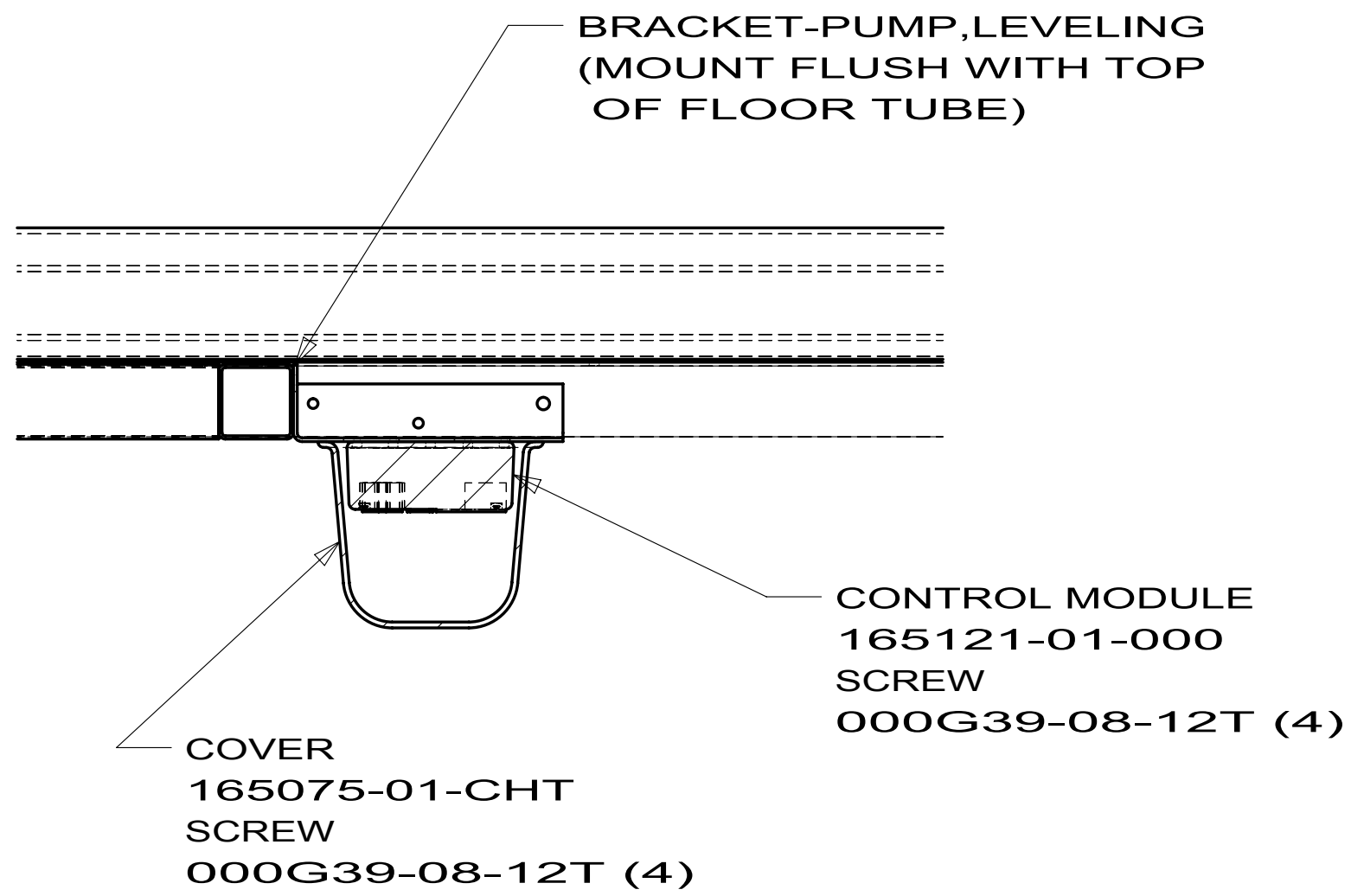
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TITLE: LEVELING SYSTEM INSTL-P/G			
SHEET 4		PART NO 173520	REV



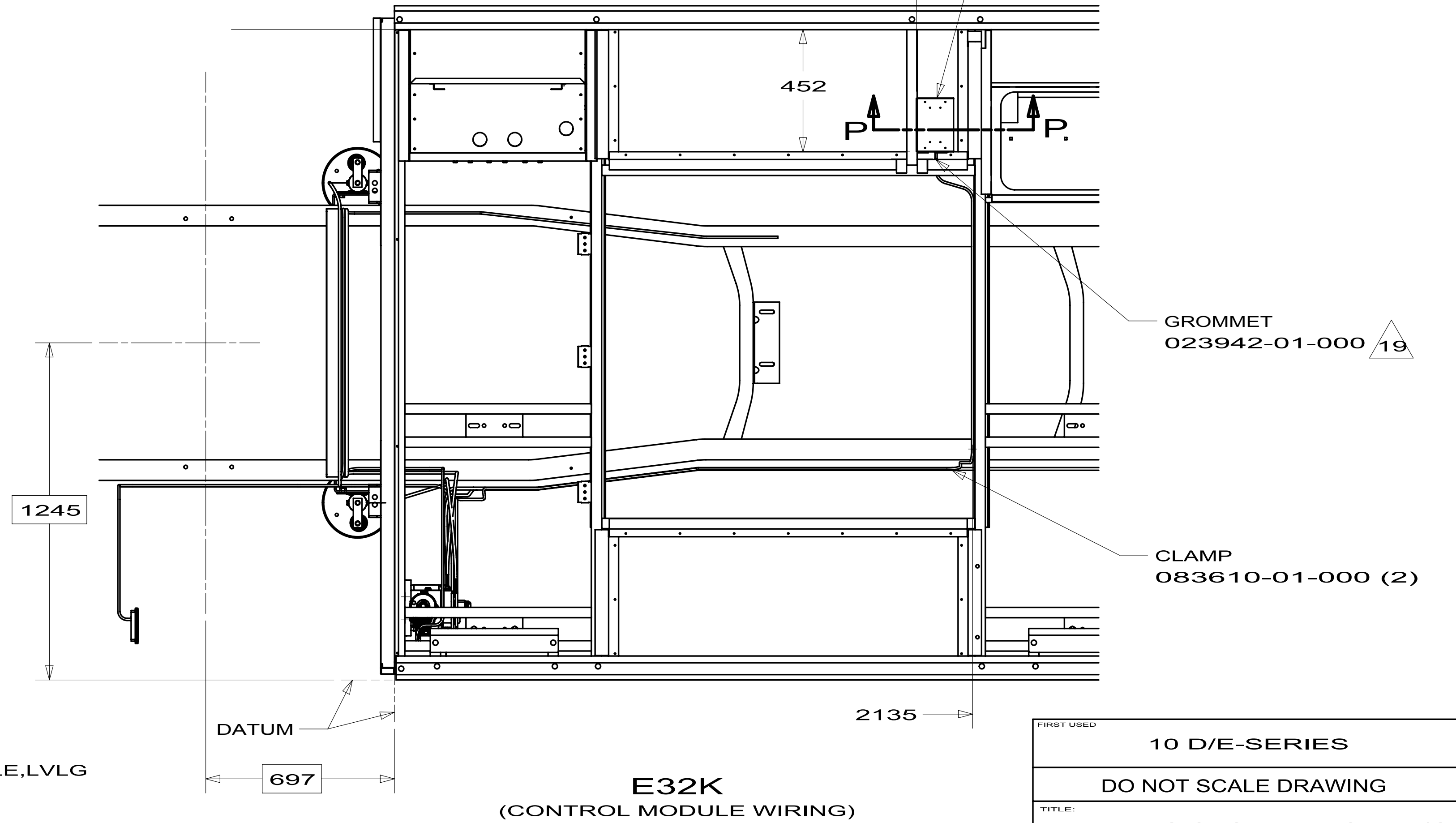
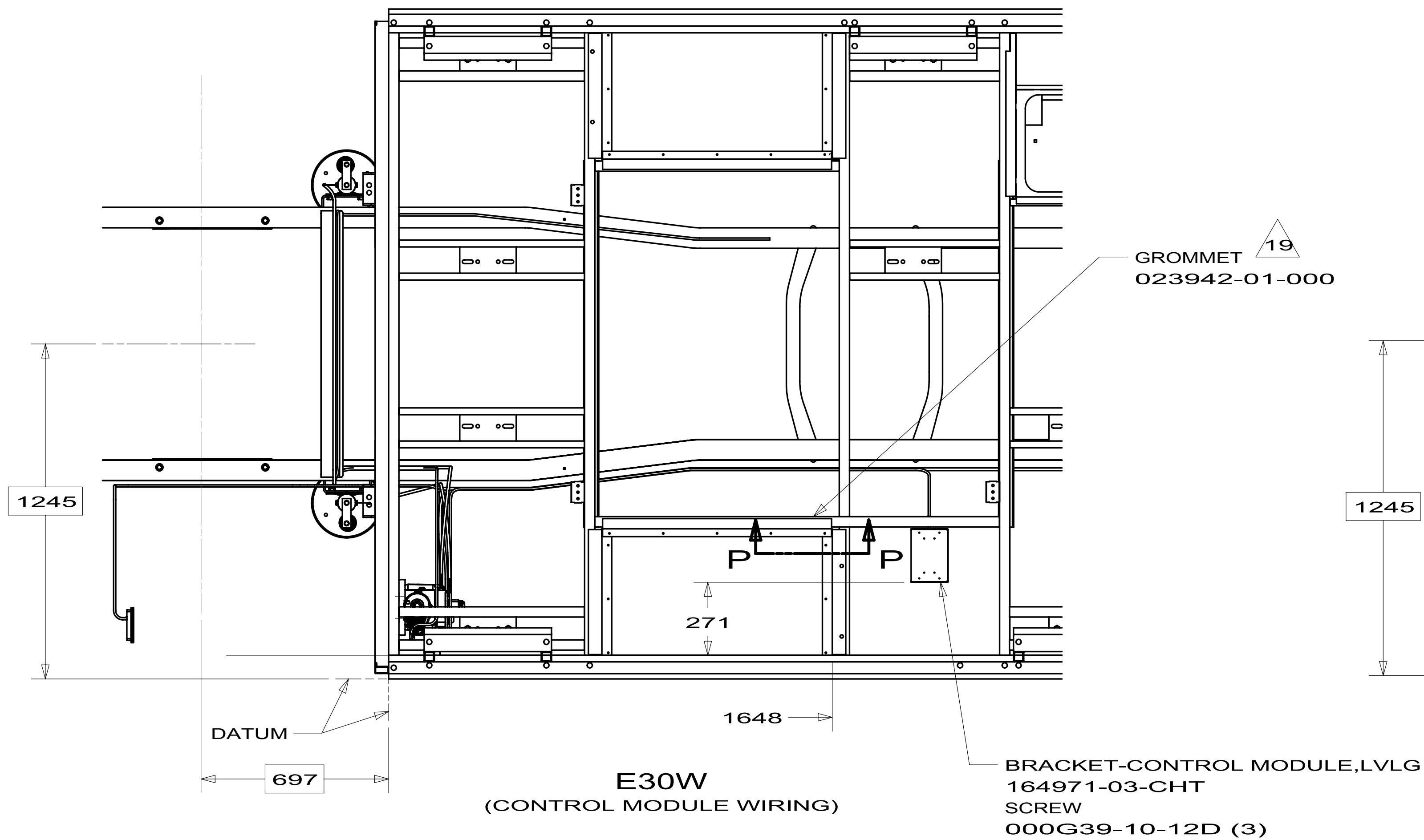
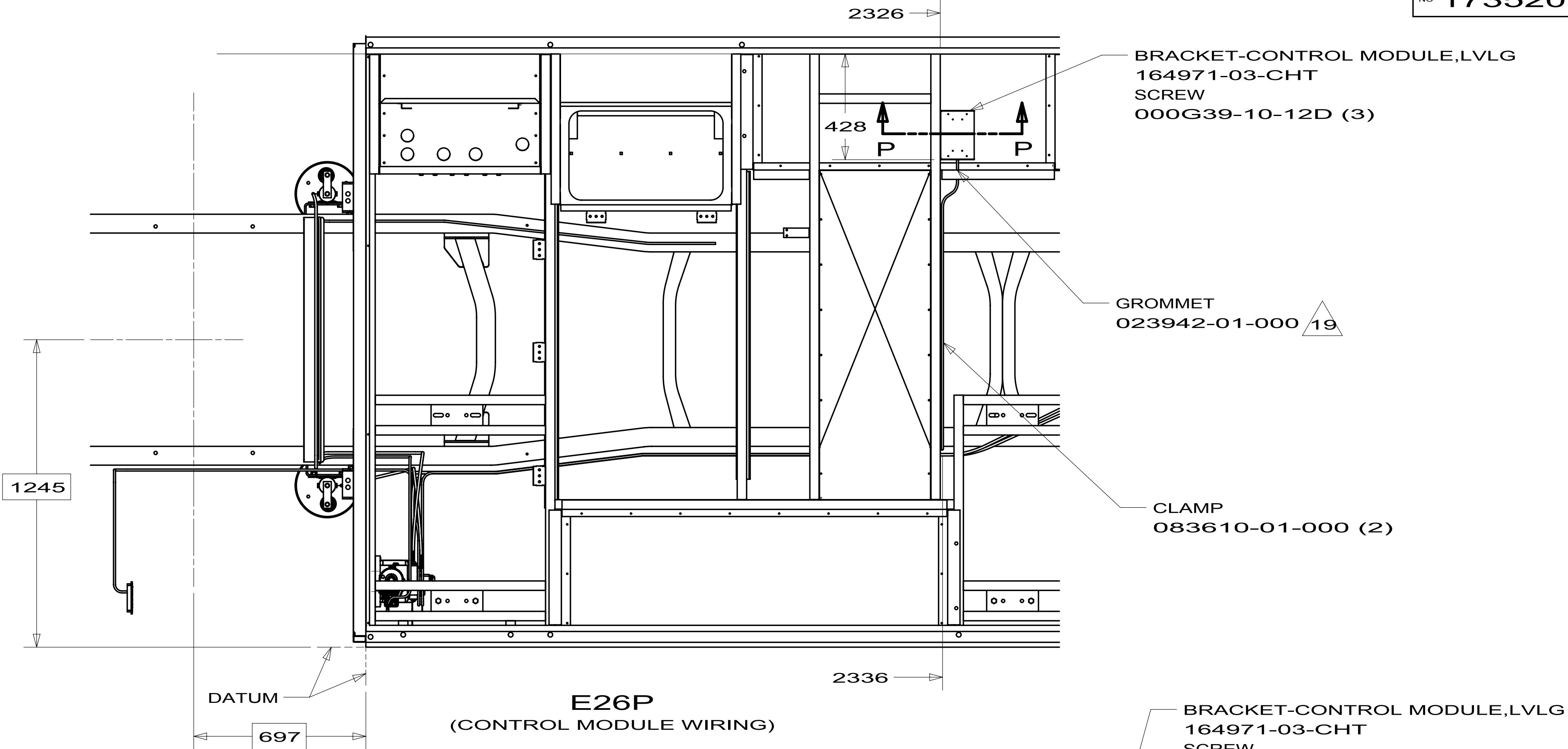
FIRST USED		
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DO NOT SCALE DRAWING		
TITLE: LEVELING SYSTEM INSTL-P/G		
SHEET 5	PART NO 173520	REV



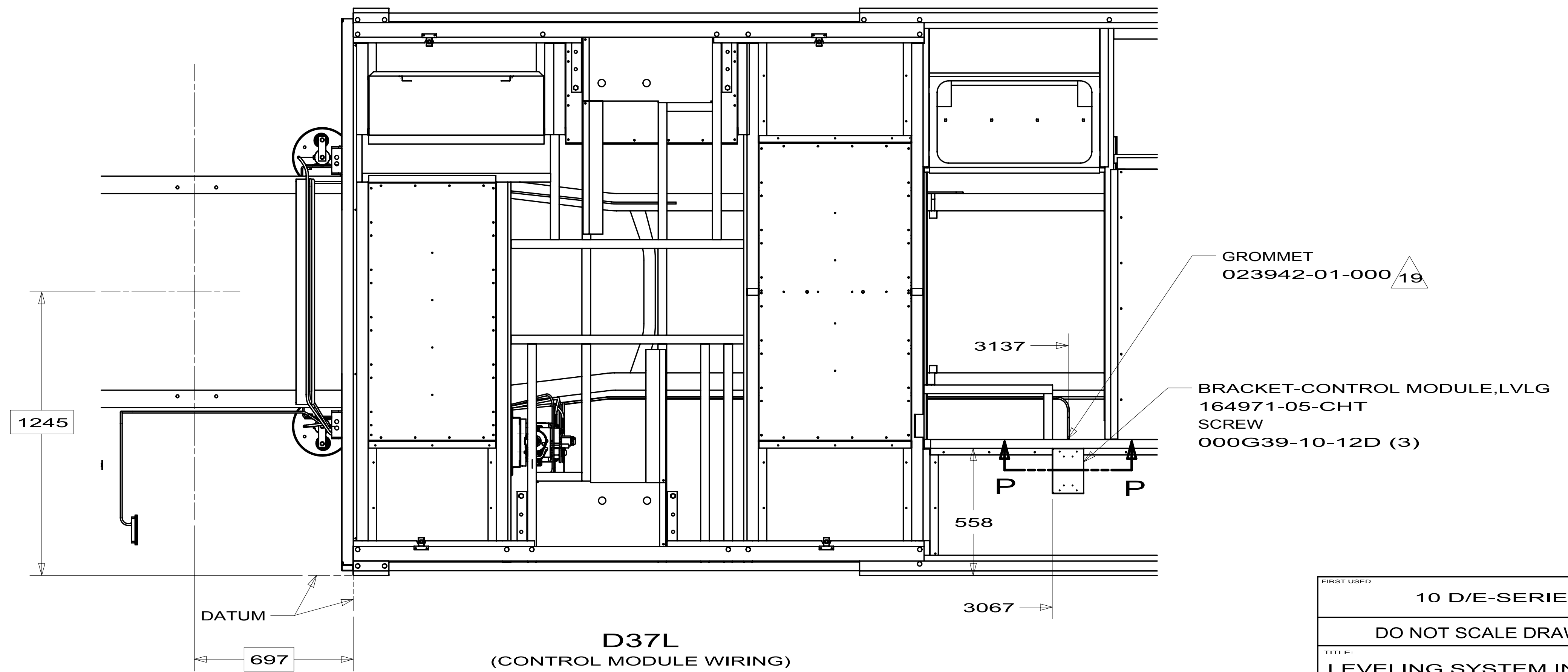
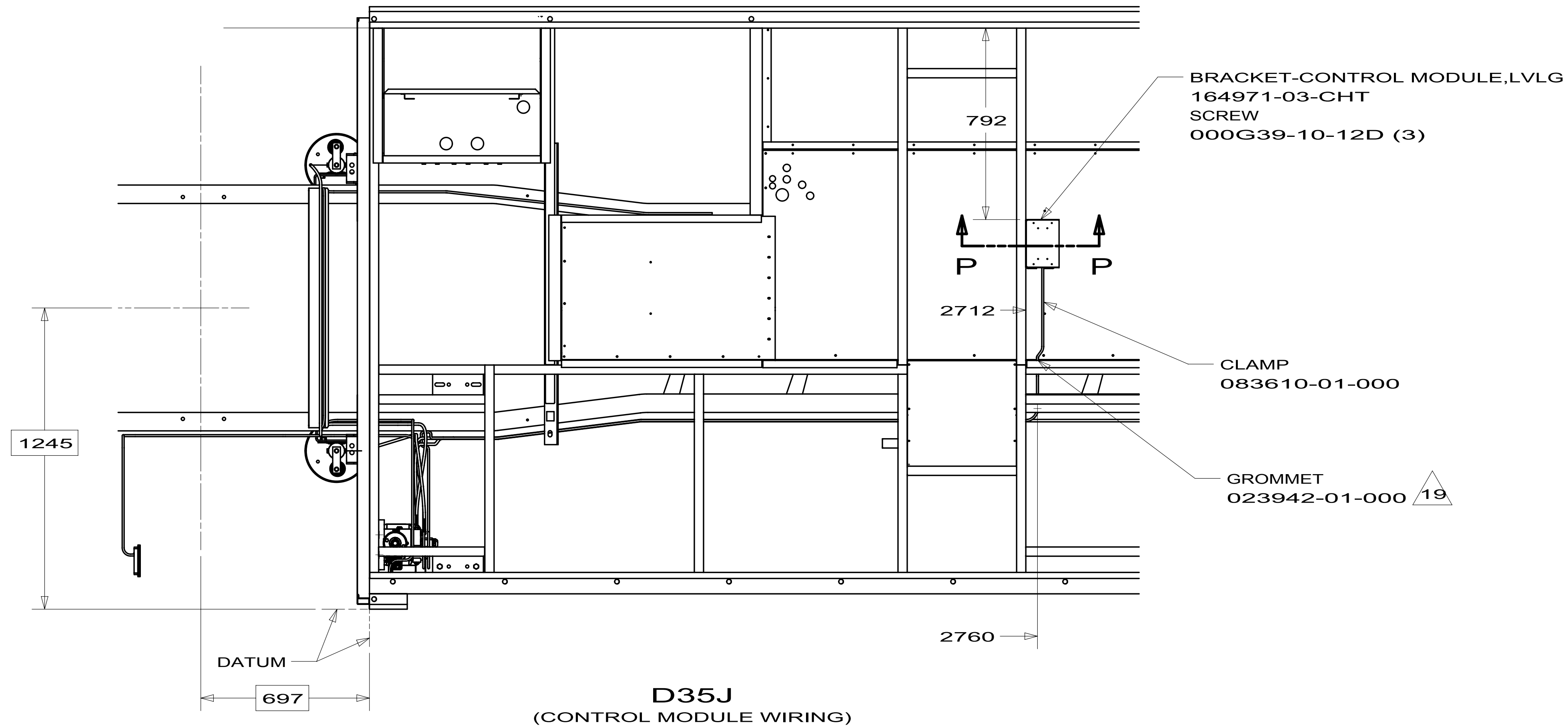
FIRST USED		
10 D/E-SERIES		
DO NOT SCALE DRAWING		
TITLE: LEVELING SYSTEM INSTL-P/G		
SHEET 6	PART NO 173520	REV



SECTION P-P



FIRST USED		
10 D/E-SERIES		
DO NOT SCALE DRAWING		
TITLE: LEVELING SYSTEM INSTL-P/G		
SHEET 7	PART NO 173520	REV



FIRST USED		
10 D/E-SERIES		
DO NOT SCALE DRAWING		
TITLE: LEVELING SYSTEM INSTL-P/G		
SHEET 9	PART NO 173520	REV

164877-01-000			
KEY	PART NUMBER	U/M DESCRIPTION	VENDOR NO.
	164877-01-700	EA PUMP HARNESS - 252"	1510000065
	164877-01-701	EA INTERCONNECT HARNESS - 30"	1510000072
	164877-01-702	EA SOLENOID	09-1141

164877-02-000			
KEY	PART NUMBER	U/M DESCRIPTION	VENDOR NO.
	164877-01-700	EA PUMP HARNESS - 252"	1510000065
	164877-02-700	EA INTERCONNECT HARNESS - 21'	1510000073

165119-01-000			
KEY	PART NUMBER	U/M	DESCRIPTION
	165119-01-700	EA	SPRING KIT - 2.5" X 17"
	165119-01-701	EA	CONE/THREADED - F/SPRING
	165119-01-702	EA	REBUILD KIT (SEALS)
VENDOR NO.			
			500094
			500085
			800138S

165119-02-000			
KEY	PART NUMBER	U/M	DESCRIPTION
	165119-01-700	EA	SPRING KIT - 2.5" X 17"
	165119-01-701	EA	CONE/THREADED - F/SPRING
	165119-02-700	EA	REBUILD KIT (SEALS)
VENDOR NO.			
			500094
			500085
			800199S

165179-01-000			
KEY	PART NUMBER	U/M DESCRIPTION	VENDOR NO.
	165179-01-700	EA HOSE - 288" - ROADSIDE REAR	080-AA288WSTRR
	165179-01-701	EA HOSE - 288" - CURBSIDE REAR	080-AA228WSTCR
	165179-01-702	EA HOSE - 88" - CURBSIDE FRONT	080-AA088WSTCF
	165179-01-703	EA HOSE - 32" - ROADSIDE FRONT	080-AA032WSTRF

165179-02-000			
KEY	PART NUMBER	U/M DESCRIPTION	VENDOR NO.
	165179-02-700	EA HOSE - 432" - ROADSIDE REAR	080-AA432WSTRR
	165179-02-701	EA HOSE - 384" - CURBSIDE REAR	080-AA432WSTCR
	165179-02-702	EA HOSE - 168" - ROADSIDE FRONT	080-AA168WSTRF
	165179-02-703	EA HOSE - 120" - CURBSIDE FRONT	A080-AA120WSTCF

2010 AND UP WHEEL TRIM MATRIX

	TIRE AND WHEELS		WHEELCOVERS		WHEEL LINERS				CHASSIS-SUPPLIED PARTS IF ORDERED W/ALUMINUM WHEEL				
	TIRE/WHEEL Ø & WIDTH	WHEEL P/N & MFGR	WHEEL COVERS	VALVE EXTENSION	WHEEL LINERS	VALVE EXTENSION	STABILIZER	TORQ. WHEEL LINER	ALUMINUM WHEEL	HUB COVER	VALVE EXTENSION	STABILIZER	NUT COVER
CHEVY C BODY (14050) NOT USED	225/75R 16"X6.5"	ACCURIDE 29361 AFTERMARKET ACCURIDE 29588	109443-05	REAR:(4)77030-01 REMOVE COVER FOR ACCESS FRONT: (2)77030-01	110435-23-000	REAR INNER (2)95012-09 REAR OUTER (2)77030-10 FRONT (2)77030-10	(2)95012-07	PUSH ON (NA)	156797 -01 (2) FRONT -02 (2) REAR	156797 -03 (2) FRONT -04 (2) REAR	REAR INNER (2)77030-01	-	REPLACE NUTS W/ (32) 156797-06 NUT COVERS (32) 149749-05
DODGE SPRINTER 2500 BVAN 100 SERIES	245/75R 16"X6.5" (1KD)	ALUM DODGE 68004980AA STL(SPARE) DODGE 1J97SZ0AA	N/A	N/A	N/A	N/A	N/A	N/A	DODGE 68004980AA	DODGE 51045708AA (CENTER CAP)	N/A	N/A	BOLT/DODGE 68013444AA
SPRINTER 6 BOLT 16" (DUAL) 500/H SERIES	215/85R 16"X5.5" (1KB) (1KM)	MAGNETTO MERCEDES A 001 401 71 02	N/A	N/A	154970-02	CHASSIS SUPPLIED REAR	-	PUSH ON (NA)	168919 -01 SET FRONT -02 SET REAR	168919 -03 SET FRONT -04 SET REAR	---	---	PART OF HUB COVER SET(S)
FORD A BODY F53 10 BOLT 19.5" E/D SERIES	245/70R 19.5"X6.75" (16K) (16H) (2009)	ACCURIDE 29875	N/A	N/A	154672-01	REAR INNER (2)95012-09 REAR OUTER (2)77030-10 FRONT CAP ONLY	(2)95012-07	41-47 NM 30-35 LB/FT TORQUE	N/A	-	-	-	
FORD A BODY F53 D/J SERIES	235/80R 22.5"X7.5" (16L) (16Z)	ALCOA DURA-BRITE 873400	N/A	-	-	-	-	-	-	KIT WITH ATTACHMENT 150723-01	REAR INNER (2)77030-10	-	-
FREIGHT LINER (REAR ENGINE) P/R SERIES (1AF) (1LE) (1LT) (1LU)	255/80R 22.5"X8.25" 295/80R 22.5"X8.25" (1LT) (1LU)	ACCURIDE 50487	N/A	N/A	-	REAR INNER (2)77030-11 REAR OUTER (2)77030-10 FRONT (2)77030-01	(2)77030-11	41-47 NM 30-35 LB/FT TORQUE	(2)133429-03 (2)133429-04 ACCURIDE 29697 IFS ONLY FRONT ACCURIDE 29560	FRONT FCCC (2)A22-53422-000 129058-15(2) 129058-16/19 129058-17/20 OR 129058-21/22	REAR (1) INSIDE 129058-06 (2)	129058-18 (2)	(40)129058-10
FORD C BODY E350/450 200/300/700 SERIES	225/75R 16"X6" (16C) (16Y)	(ARVIN MERRITOR) FORD 8C24-1015-H	109443 -05-000	REAR: FORD 1/2" FRONT: FORD 1/2" (LIKE 077030-10) REMOVE COVER FOR REAR ACCESS	110435-23-000	REAR INNER (2)95012-05 REAR OUTER AND FRONT CHASSIS SUPPLIED 1/2"(77030-10)	(2)95012-07	PUSH ON (NA)	(2)149749-01 (2)149749-02 (UP TO 06-22-09) (2)149749-07 (2)149749-08 (AFTER 06-23-09)	156797 -03(2)FRONT -04(2)REAR	REAR INNER (2)77030-01	---	REPLACE NUTS W/ (32) 149749-06 NUT COVERS (32) 149749-05
FORD A BODY F53 16K 2009 E26P 18K (2011) E/D SERIES	225/70R 19.5"X6.0" (16N) (16H) (2011)	(HAYES LAMMERZ) FORD 8U94-1015-BA	N/A	N/A	154672-02	REAR INNER (2)95012-09 REAR OUTER (2)77030-10 FRONT CAP ONLY	(2)95012-07	41-47NM 30-35 LB/FT	N/A	---	---	---	---
FRONT ENGINE FREIGHT LINER J SERIES	225/80R 22.5"X8.25" (1L1) (1LL)	ACCURIDE 50487	N/A	N/A	145580-05	REAR INNER (2)77030-11 REAR OUTER (2)77030-10 FRONT (2) 77030-01	(2)77030-11	41-47NM 30-35 LB/FT TORQUE	(2)133429-03 (2)133429-04 ACCURIDE 29697	FRONT FCCC(2) A22-53422-000 129058-15(2) 129058-17/20	REAR (1) INSIDE 129058-06 (2)	129058-18 (2)	(40)129058-10

5 WINNEBAGO INSTALLED.

4 / FREIGHTLINER LOGO NOT FOR WORKHORSE APPLICATION.

3 NO WINNEBAGO 8 BOLT HUB COVER WITHOUT PORT.

2/ BRACKET-17/20 FOR 145 AXLE, BRACKET-21/22 FOR 144 AXLE.

1 CHASSIS SUPPLIED

SOME PARTS UNIQUE TO CHASSIS MFGR., NO WINNEBAGO P/N

CONTINUED ON NEXT PAGE

FIRST USED		07 MOTORHOMES	
DO NOT SCALE DRAWING			
TITLE:			
WHEEL INSTL			
SHEET 1	PART NO	159483	REV

2010 WHEEL TRIM MATRIX CONTINUED

	TIRE AND WHEELS		WHEELS AND COVERS		WHEEL LINERS				CHASSIS-SUPPLIED PARTS IF ORDERED W/ALUMINUM WHEEL				
	TIRE/WHEEL Ø & WIDTH	WHEEL P/N & MFGR	WHEEL COVERS	VALVE EXTENSION	WHEEL LINERS	VALVE EXTENSION	STABILIZER	TORQ. WHEEL LINER	ALUMINUM WHEEL	HUB COVER	VALVE EXTENSION	STABILIZER	NUT COVER
WORKHORSE W16/18 E26P/E30W	225/70R 19.5"X6" 1PJ 1PL	MAXION W0007492	N/A	-	145580-06	REAR INNER CHASSIS SUPPLIED	N/A	41-47 NM 30-35 LB/FT TORQUE	N/A	-	-	-	-
WORKHORSE W20/22 E/D SERIES	245/70R 19.5"X6.75" 1PE 1PR	MAXION W0002404	N/A	-	134609-02 145580-03	REAR INNER (2)95012-09 REAR OUTER (2)77030-10 FRONT (2)77030-10 6	(2)95012-07	41-47 NM 30-35 LB/FT TORQUE	(2)118815-02 (2)118815-03 ALCOA 764481 764482	(2)129058-15 (2)129058-17	95012-09 (2)	129058-07 (2)	(32)129058
WORKHORSE W20/22/24 D/J SERIES	225/70R 22.5"X6.75" 1PS 1PU 1PV	MAXION W0002404	N/A	-	134609-05 145580-02	REAR INNER (2)95012-10 REAR OUTER (2)77030-01 FRONT (2)77030-10 6	(2)95012-07	41-47 NM 30-35 LB/FT TORQUE	(2)128689-01 (2)128689-02 ALCOA 873401	(2)129058-15 (2)129058-17 SIMILAR TO -14 (2) 3 -16 (2) 4	FLEX HOSE 1	129058-07 (2)	(32)129058
-	-	-	-	-	-	-	-	-	-				

87654321

159483

DWG NO

FOR WINNEBAGO MODEL YEAR 2007, WINNEBAGO WILL SUPPLY LUG WRENCHES WHICH ARE SUPPLIED TO WINNEBAGO WITH THE CHASSIS. (CURRENTLY, FORD E350/E450 CUTAWAY, DODGE SPRINTER, AND FORD F53 19.5" RAIL) IN ADDITION, C-BODY CUTAWAY CHASSIS WITH ALUMINUM WHEEL OPTION, FORD CHASSIS SUPPLIED LUG WRENCH WHICH NO LONGER FITS ALUMINUM WHEEL FASTENERS WILL BE STORED UNDER PART NUMBER 112358-02-000. WINNEBAGO WILL PROVIDE LUG WRENCH AND LEVERAGE BAR TO FIT ALUMINUM WHEEL HARDWARE. WINNEBAGO WILL PROVIDE 112358-02-000 WITH STANDARD CHEVY STEEL WHEEL CHASSIS.

2007 AND UP

OTHER APPLICATIONS LISTED FOR WRENCH FIT REFERENCE

LUG WRENCH APPLICATION MATRIX

	CHASSIS	LUG WRENCH	LEVERAGE BAR	TORQUE FT/LBS
* NOT USED	CHEVY CUTAWAY G3500 8 BOLT GMT610 8 BOLT	112358-02	---	110-140
* NOT USED	CHEVY CUTAWAY ALUMINUM WHEELS G3500/GMT610 8 BOLT	80208-06	80208-02	140
* 100/500/H SERIES (1KB) (1KD) (1KM)	DODGE SPRINTER 16" 6-BOLT	CHASSIS SUPPLIED (FLOOR COMPT. @ PASS. FEET)	CHASSIS SUPPLIED	140 (130-150)
* 200/300/700 SERIES (16C) (16Y)	FORD CUTAWAY E350SD/E450SD 8 BOLT	CHASSIS SUPPLIED 112358-02	---	140
* 200/300/700 SERIES (16C) (16Y)	FORD CUTAWAY ALUMINUM WHEELS E350SD/E450SD 8 BOLT	80208-06	80208-02	140
* E/D SERIES (16H) (16K)	FORD RAIL F53 10 BOLT 19.5"	CHASSIS SUPPLIED 112358-01	---	140
D/J SERIES (16L) (16Z)	FORD RAIL F53 8 BOLT 22.5" ALUMINUM	80208-04	80208-05	450-500
	FREIGHTLINER 10 BOLT NOT USED	80208-04	80208-05	450-500
E26P/E30W (1PJ) (1PL)	WORKHORSE W16/18 10 BOLT 19.5"	80208-06	80208-02	150 (145-155)
E/D/J SERIES (1PE) (1PR) (1PS) (1PU) (1PV)	WORKHORSE W20-25 SERIES AND UFO 8 BOLT	80208-04	80208-05	450-500

87654321

07 MOTORHOMES

DO NOT SCALE DRAWING

TITLE:
WHEEL INSTL

SHEET 3PART NO159483REV

12/17/2010

KEY	PART NUMBER	U/M DESCRIPTION
	110435-04-705	EA DECAL-CTR HUB 2 3/4" DIAMOND
	110435-05-700	EA CAP-CENTER 4.50"D W/O DECAL
	110435-12-700	EA LINER - WHEEL - FRONT
	110435-12-701	EA LINER - WHEEL - REAR
	145580-01-702	EA COVER-LUG NUT/JAM NUT 22M
	145580-01-703	EA TOOL-INSTALLATION

145580-03-000
VENDOR NO.
 2 3/4 DECAL DIAMOND
 V22510-POC
 V19580-FWC
 V19580-RWC
 V19582-EJN
 V22501-TOL

KEY	PART NUMBER	U/M DESCRIPTION
	110435-04-705	EA DECAL-CTR HUB 2 3/4" DIAMOND
	110435-05-700	EA CAP-CENTER 4.50"D W/O DECAL
	145580-01-702	EA COVER-LUG NUT/JAM NUT 22M
	145580-01-703	EA TOOL-INSTALLATION
	145580-05-700	EA LINER - WHEEL/FRONT - 1EA=1
	145580-05-701	EA LINER - WHEEL/REAR - 1EA=1

145580-05-000
VENDOR NO.
 2 3/4 DECAL DIAMOND
 V22510-POC
 V19582-EJN
 V22501-TOL
 V22587-FWC
 V22587-RWC

KEY	PART NUMBER	U/M DESCRIPTION
	110435-04-705	EA DECAL-CTR HUB 2 3/4" DIAMOND
	110435-10-702	EA JAMB NUT W/JAMB NUT COVER
	110435-10-705	EA TOOL/JAMB NUT INSTALLATION
	145580-06-700	EA LINER - WHEEL/FRONT - 1EA=1
	145580-06-701	EA LINER - WHEEL/REAR - 1EA=1

145580-06-000
VENDOR NO.
 2 3/4 DECAL DIAMOND
 V195P7-EJN
 V195P7-TOL
 V195W18-FWC
 V195W18-RWC

		150723-01-000	
KEY	PART NUMBER	U/M DESCRIPTION	VENDOR NO.
	110435-04-705	EA DECAL-CTR HUB 2 3/4" DIAMOND	2 3/4 DECAL DIAMOND
	110435-05-700	EA CAP-CENTER 4.50"D W/O DECAL	V22510-POC
	145580-01-702	EA COVER-LUG NUT/JAM NUT 22M	V19582-EJN
	145580-01-703	EA TOOL-INSTALLATION	V22501-TOL
	150723-01-700	EA COVER - HUB/FRONT W/CAP	VAC8275-FHC
	150723-01-701	EA COVER - HUB/REAR	VAC8275-RHC

KEY	PART NUMBER	U/M	DESCRIPTION
	110435-04-705	EA	DECAL-CTR HUB 2 3/4" DIAMOND
	110435-10-705	EA	TOOL/JAMB NUT INSTALLATION
	110435-20-700	EA	JAMB NUT W/COVER - METRIC
	154672-01-700	EA	LINER - WHEEL - FRONT
	154672-01-701	EA	LINER - WHEEL - REAR

154672-01-000
VENDOR NO.
 2 3/4 DECAL DIAMOND
 V195P7-TOL
 V195F9-EJN-MF
 V195F6-FWC
 V195F6-RWC

KEY	PART NUMBER	U/M	DESCRIPTION
	110435-04-705	EA	DECAL-CTR HUB 2 3/4" DIAMOND
	110435-10-705	EA	TOOL/JAMB NUT INSTALLATION
	110435-20-700	EA	JAMB NUT W/COVER - METRIC
	154672-02-700	EA	LINER - WHEEL - FRONT
	154672-02-701	EA	LINER - WHEEL - REAR

154672-02-000
VENDOR NO.
 2 3/4 DECAL DIAMOND
 V195P7-TOL
 V195F9-EJN-MF
 V195F66M-FWC
 V195F66M-RWC