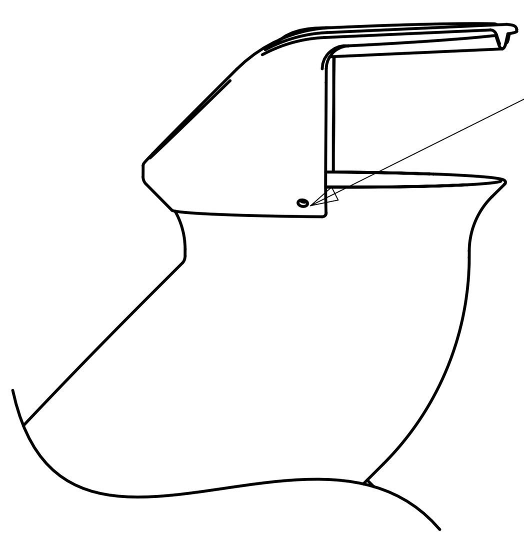
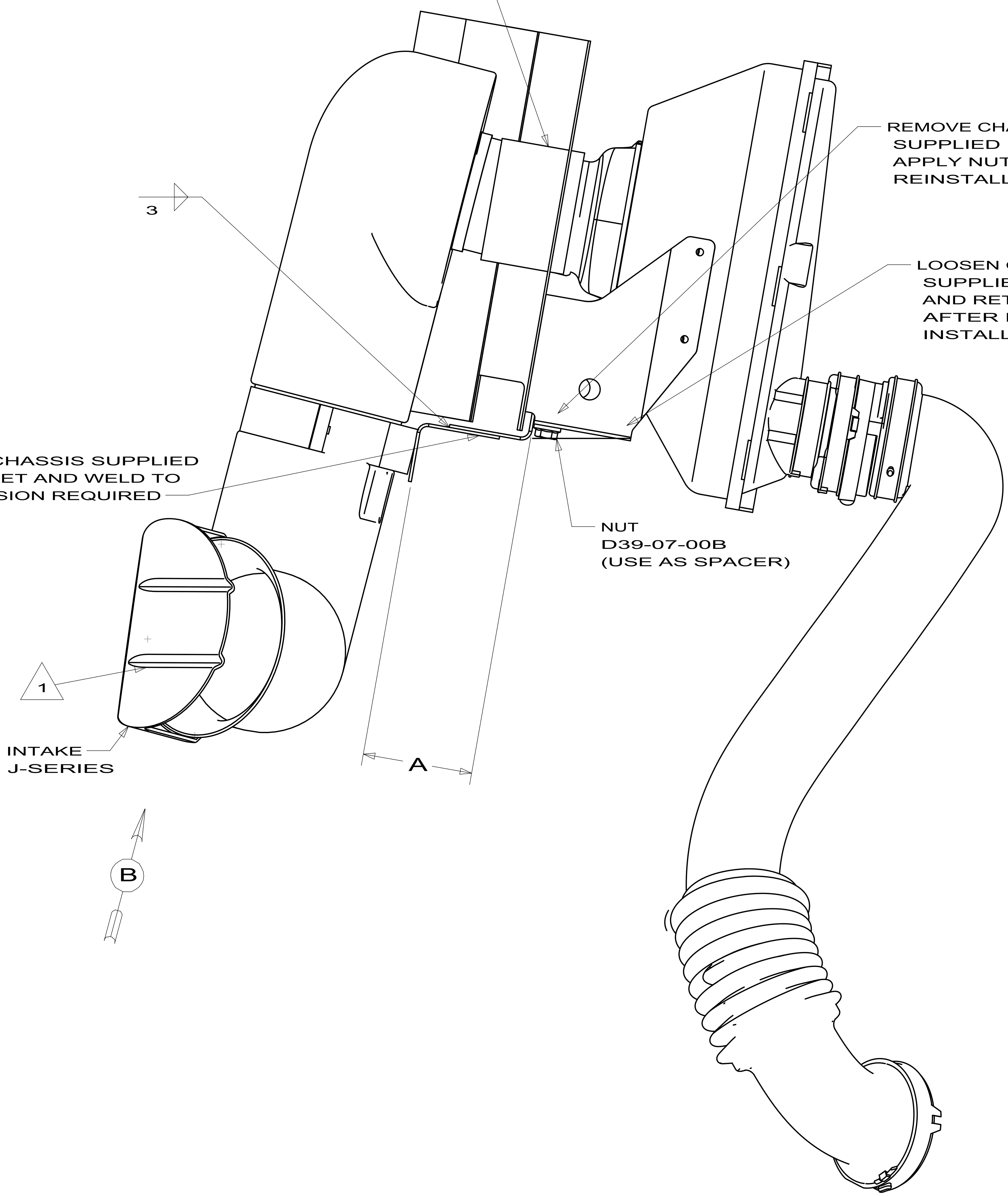
DWG NO	----	A	DEFLECTOR
147589-01	J SERIES	1	154181-01-CHT
147589-	D E SERIES	8	-------

RELEASE	REV A	DATE	DWG NO 147589
REV	ZONE	REVISION RECORD	DATE / DFTR-ORIG





WORKHORSE CHASSIS ONLY

1. ORIENT DEFLECTOR SO THAT GROOVES ARE POSITIONED VERTICALLY WHEN VIEWED FROM FRONT OF VEHICLE.

DFTR	ORIG. DATE
CHKR	ALL DIMENSIONS ARE IN MILLIMETERS
P.E.	
M.E.	FIRST USED
DSNR	04 F,G-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

MATERIAL:

DO NOT SCALE DRAWING

TITLE: AIR INTAKE INSTL

SHEET 1 OF 1 | PART NO 147589 | REV

REF: 1

11/6/2009

DWG NO	----
171360-01	16L 16Z
171360-02	1PS 1PV
171360-03	1LL

RELEASE	REV A	DATE	DWG NO 171360
REV	ZONE	REVISION RECORD	DATE / DFTR-ORIG

TAB	SHEET
171360-18	7
171360-17	11
171360-16	10
171360-15	8
171360-14	6
171360-13	3
171360-12	1
171360-11	1

11. ADD SHIM 136538-01-CHT (A/R) BETWEEN HITCH AND FRAME TO A MAXIMUM OF 10 MM TO ALIGN HITCH WITH BUMPER: RE-TORQUE BOLTS TO SPECIFICATIONS.
10. REMOVE BEFORE INSTALLATION OF COMPARTMENT.
9. TRIM FRAME RAILS TO THIS DIMENSION.
8. INSTALL AFTER SUB FLOOR PANELS.
7. SECTION OF TUBE TO BE REMOVED.
6. WELD PER ES0063, UNLESS OTHERWISE SPECIFIED.
5. USE SHIMS AS REQUIRED.
4. TORQUE TO 140± 14 FT-LBS.
3. SEAL ALL JOINTS OF COMPARTMENTS AND CLOSEOUT PANELS WITH SEALANT 53766-01-000.
2. CLEAN AND E-COAT ALL PIECE PARTS PRIOR TO ASSEMBLY.
1. CLEAN AND PAINT WITH UNDERCOATING 100053-03-000.

NOTES:

23. REMOVE FORWARD CROSS TUBE BEFORE CLIP INSTALLATION.
22. HOLES 41.0 FROM END OF TUBE TO FRONT OF UNIT.
21. HOLES 238.0 FROM END OF TUBE TO FRONT OF UNIT.
20. TORQUE BOLTS TO 70-85 Nm (52-62 FT-LBS.)
19. USE LOCTITE 062917-02-000 ON ALL THREADS WHEN INSTALLING BOLTS.
18. APPLY 2 STRIPS OF TAPE 69640-32-000 (585 LONG.)
17. APPLY UNDERCOATING 100053-03-000 TO WHEELWELL AREA.
16. USE GIMP 113452-01-000 AS REQUIRED,(1800mm).
15. MAINTAIN 25mm GAP FROM HOSE TO CHANNEL.
14. INSTALL DOWN STAIRS.
13. MOVE CROSSMEMBER TO THIS POSITION AND WELD INTO PLACE.
12. TO BE INSTALLED AFTER STEP ASSEMBLY.

1B2	WTR HTR-10GAL/ELEC/LP/MTRAID
611	WTR HTR-AUX AUTO/MTRAID/6 GAL
1LL	FRTL(FRED)27K-300HP 22.5 TIRE
1PS	WORKHORSE 22,000#-22.5 TIRE
1PV	WORKHORSE 24,000#-22.5 TIRE
16L	FORD 22,000#-22.5 TIRE
16Z	FORD 24,000#-22.5 TIRE

SEE CHART

FOR COLOR VARIATIONS OF THIS PART

WINNEBAGO INDUSTRIES

DFTR | ORIG. DATE
CHKR
P.E. | ALL DIMENSIONS ARE IN MILLIMETERS
M.E. | FIRST USED
DSNR | 10 J35P

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 | REFER TO ES0018 FOR FASTENER TIGHTENING GUIDELINES

TITLE: FRAME ASM-CHASSIS

SHEET 1 OF 11 | PART NO 171360 | REV

REF:

3/4/2010

8
7
6
5
4
3
2
1
D
C
B
A
DWG NO 171360
MOUNT ASM
172092-01-CHT (RH)
172092-02-CHT (LH)
PLATE-BODY MOUNT
135712-02-CHT
BOLT
000C12-10-32B
NUT
000D39-10-00B
4
SECTION BA-BA
(RH SHOWN)
SECTION BB-BB
(LH SIMILAR)
1PV
16Z
1PS
16L
MOUNT ASM
172092-03-CHT (RH)
172092-04-CHT (LH)
PLATE-BODY MOUNT
135712-02-CHT
BOLT
000C12-10-32B
NUT
000D39-10-00B
4
75
SECTION BA-BA
(RH SHOWN)
SECTION BB-BB
(LH OPPOSITE)
1LL
PLATE-BODY MOUNT
135712-01-CHT
NUT
000D39-10-00U
4
MOUNT-BODY
134192-01-CHT
SHIM
128310-01-CHT
5
10
REF
SECTION BC-BC
SECTION BD-BD
(SIMILAR)
PLATE-CLIP
133095-01-CHT
16L
16Z
7616
1PS
1PV
8007
44
DETAIL BE
(RH SHOWN)
DETAIL BF
(LH SIMILAR)
PLATE-BODY MOUNT
135712-03-CHT
NUT
000D39-10-00U
4
MOUNT-BODY
134192-08-CHT
10
REF
SECTION BK-BK
OUTRIGGER-GENERATOR
121343-13-CHT
PLATE-BODY MOUNT
135712-02-CHT
NUT
000D39-10-00U
4
SHIM-BODY
138791-01-CHT
9
SECTION BG-BG
GUARD-ROCK
136388-07-CHT
WASHER
000E13-14-00B (6)
NUT
000D29-05-00B (6)
SECTION BJ-BJ
(LH SHOWN)
SECTION BN-BN
(RH SIMILAR)
MOUNT-BODY
117809-01-CHT(2)
SHIM
138791-01-CHT
138791-02-CHT
138791-03-CHT
5
PLATE-BODY MOUNT
135712-01-CHT
NUT
000D39-10-00U
4
SECTION BL-BL
SECTION BM-BM
(SIMILAR)
9
SECTION BH-BH
PLATE-BODY MOUNT
135712-02-CHT
NUT
000D39-10-00U
4
229
SHIELD ASM-HEAT
173544-01-XXX
DATUM
SECTION BR-BR
1LL
115
STL-TUBE
130899-00-100 (2)
SECTION BP-BP
1LL
FIRST USED
10 J35P
DO NOT SCALE DRAWING
TITLE:
FRAME ASM-CHASSIS
SHEET 2
PART NO
171360
REV
3/4/2010

DETAIL CA
FLOOR FRAME ASM
171360-13

FIRST USED	10 J35P
DO NOT SCALE DRAWING	
TITLE:	FRAME ASM-CHASSIS
SHEET 3	PART NO 171360


DWG NO 171360
SECTION DD-DD
5
3
2 PLCS
TOP OF FLOOR FRAME
20 REF
TUBE-B PILLAR
ANGLE-CLOSEOUT 159353-01-CHT
SECTION DE-DE
ADJUSTER ASM 136780-03-CHT
SCREW-PAN,HEAD 000G39-10-12T (4)
BOLT 000C26-06-28U
SECTION DF-DF 2 PLCS
19 REF
TOP OF FLOOR FRAME
5.0
SECTION DG-DG
ADJUSTMENT ASM 126315-05-CHT
568
DETAIL EF
BOLT 000G42-04-12U (2)
FRAME ASM-REAR 162047-01-CHT
U-CHANNEL ASM 117139-02-CHT(2)
354.5
DETAIL EF
STL-TUBE 130885-00-216
5
24.0
565
SECTION DR-DR
2
2 10-200
2 10-200
CHANNEL-FLOOR 163004-01-CHT
63
104
STL-TUBE 130880-03-704 REF
DETAIL DS
2 10-200
2 10-200
2
53
100
CHANNEL-FLOOR 163004-01-CHT
STL-TUBE 130880-03-704 REF
DETAIL DT
RISER ASM-FLOOR,BOTTOM 161849-06-CHT
NUT 000D39-04-00U (3)
18
291.0
RISER ASM-FLOOR 161845-06-XXX
STRAP ASM-RISER 161848-02-CHT (2)
24.0
RISER ASM-FLOOR,BOTTOM 162025-08-CHT
NUT 000D39-04-00U (3)
18
SECTION DJ-DJ
RISER ASM-FLOOR,BOTTOM 161849-07-CHT
NUT 000D39-04-00U (3)
18
291.0
RISER ASM-FLOOR 161845-05-XXX
STRAP ASM-RISER 161848-02-CHT (2)
PANEL-FLOOR SUPPORT 168253-03-CHT
EN
EN
24.0
RISER ASM-FLOOR,BOTTOM 161849-03-CHT
NUT 000D39-04-00U (3)
18
SECTION DK-DK
PANEL-RISER 162302-11-CHT
NUT 000D39-04-00U (3)
18
291.0
PANEL-RISER 162302-04-CHT
NUT 000D39-04-00U (3)
RISER ASM-FLOOR 161845-01-XXX
STRAP ASM-RISER 161848-02-CHT (2)
24.0
PANEL-RISER 162302-10-CHT
NUT 000D39-04-00U (3)
18
SECTION DL-DL
18
PANEL-FLOOR SUPPORT 168253-01-CHT
291.0
PANEL ASM-SUPPORT 162044-02-CHT
NUT 000D39-04-00U (3)
RISER ASM-FLOOR 161845-07-XXX
STRAP ASM-RISER 161848-02-CHT (2)
24.0
SECTION DM-DM
18
291.0
PANEL ASM-A/C SUPPORT 162044-01-CHT
NUT 000D39-04-00U (3)
BOLT 000G42-04-12U (2)
RISER ASM-FLOOR 161845-07-XXX
STRAP ASM-RISER 161848-02-CHT (2)
24.0
SECTION DN-DN
RISER ASM-FLOOR 161845-07-XXX
STRAP ASM-RISER 161848-02-CHT (2)
291.0
24.0
SECTION DP-DP
FIRST USED 10 J35P
DO NOT SCALE DRAWING
TITLE: FRAME ASM-CHASSIS
SHEET 4
PART NO 171360
REV

3/4/2010

FIRST USED: 10 J35P

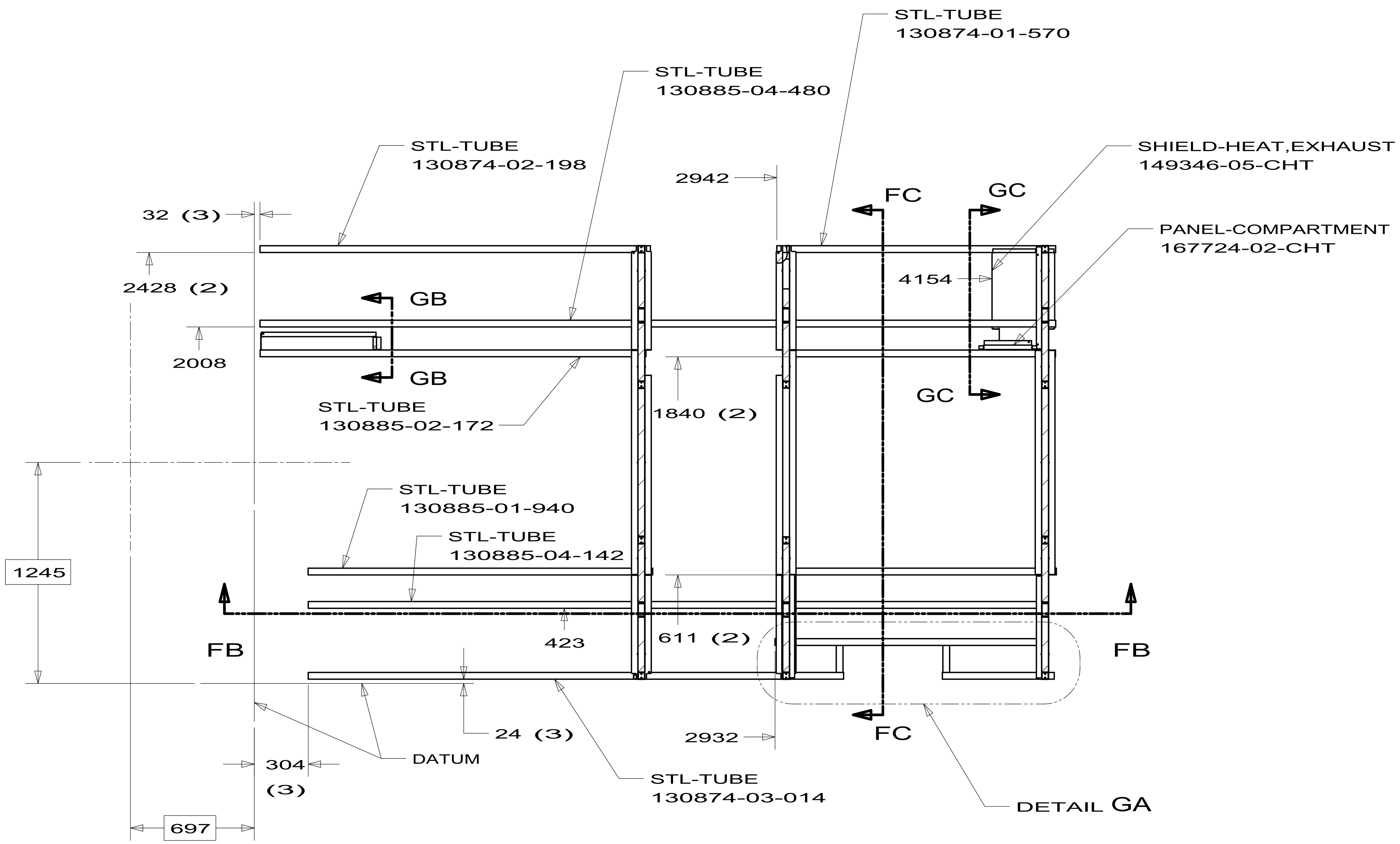
DO NOT SCALE DRAWING

TITLE: FRAME ASM-CHASSIS

SHEET 5 | PART NO 171360 | REV

3/4/2010

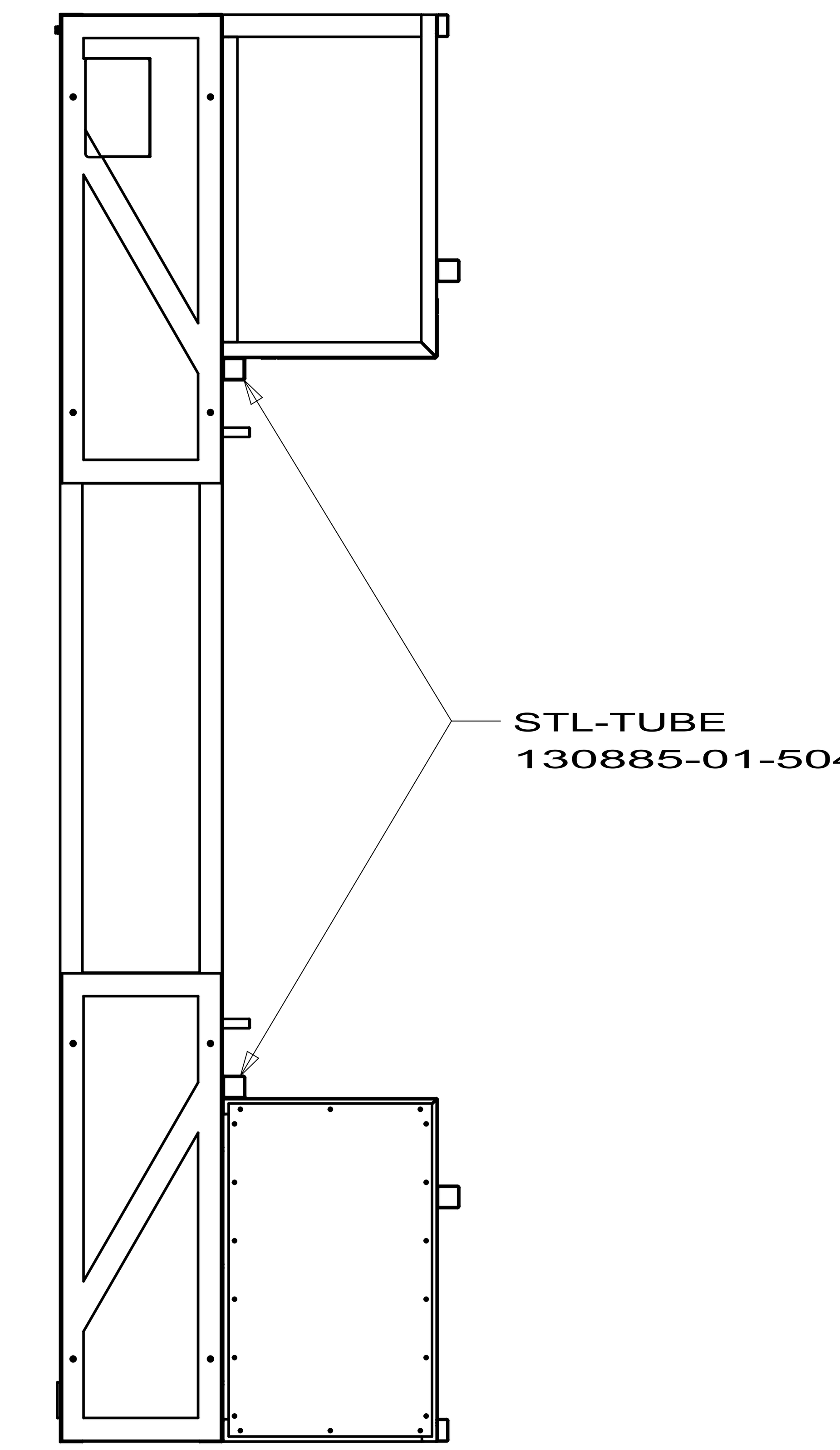
DWG NO 171360



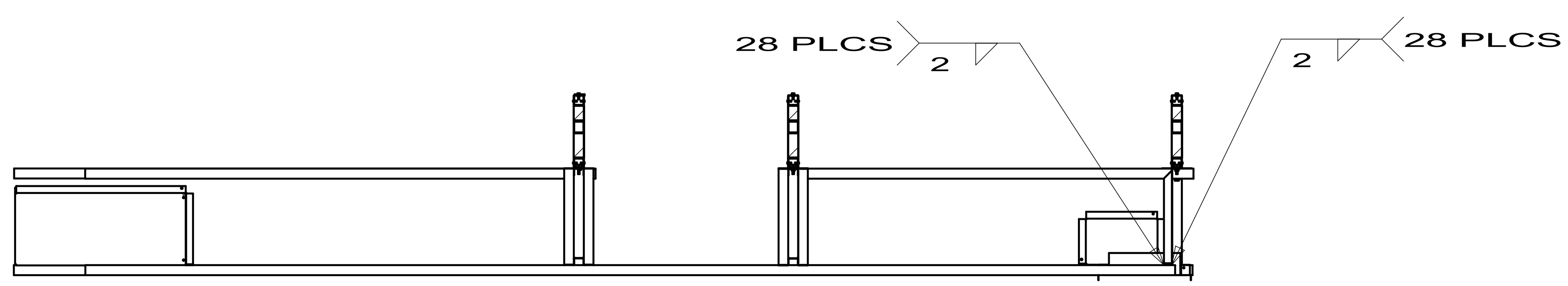
SECTION FA-FA

LOWER TUBES

171360-14



SECTION FC-FC

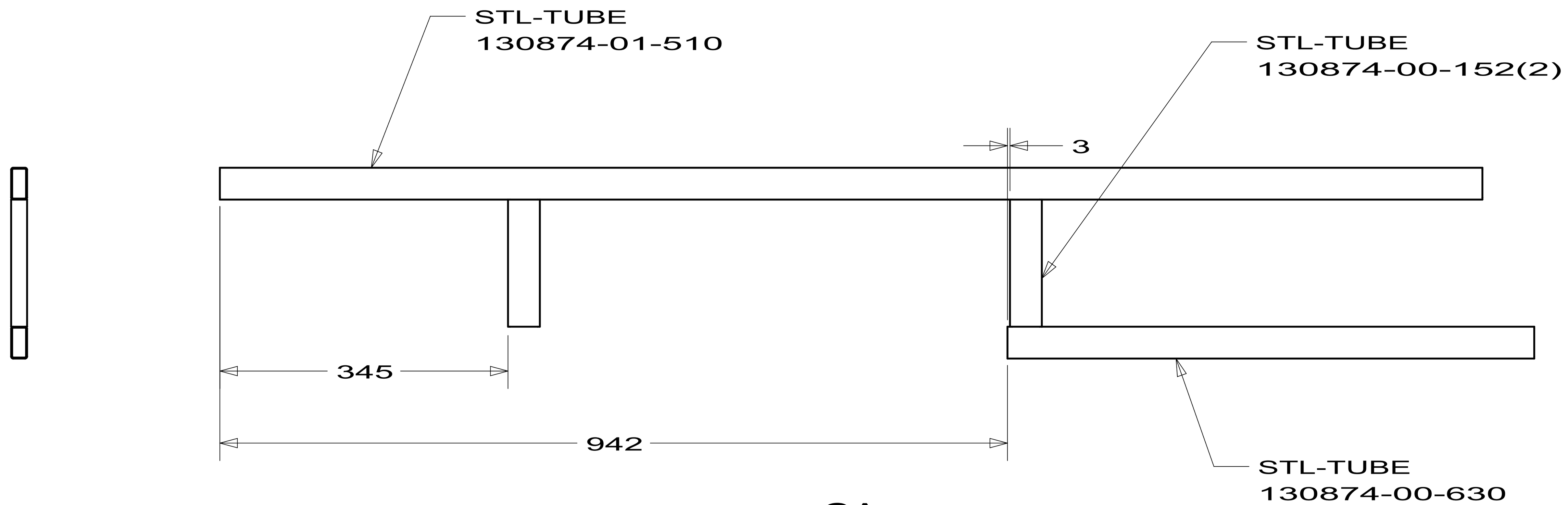


SECTION FB-FB

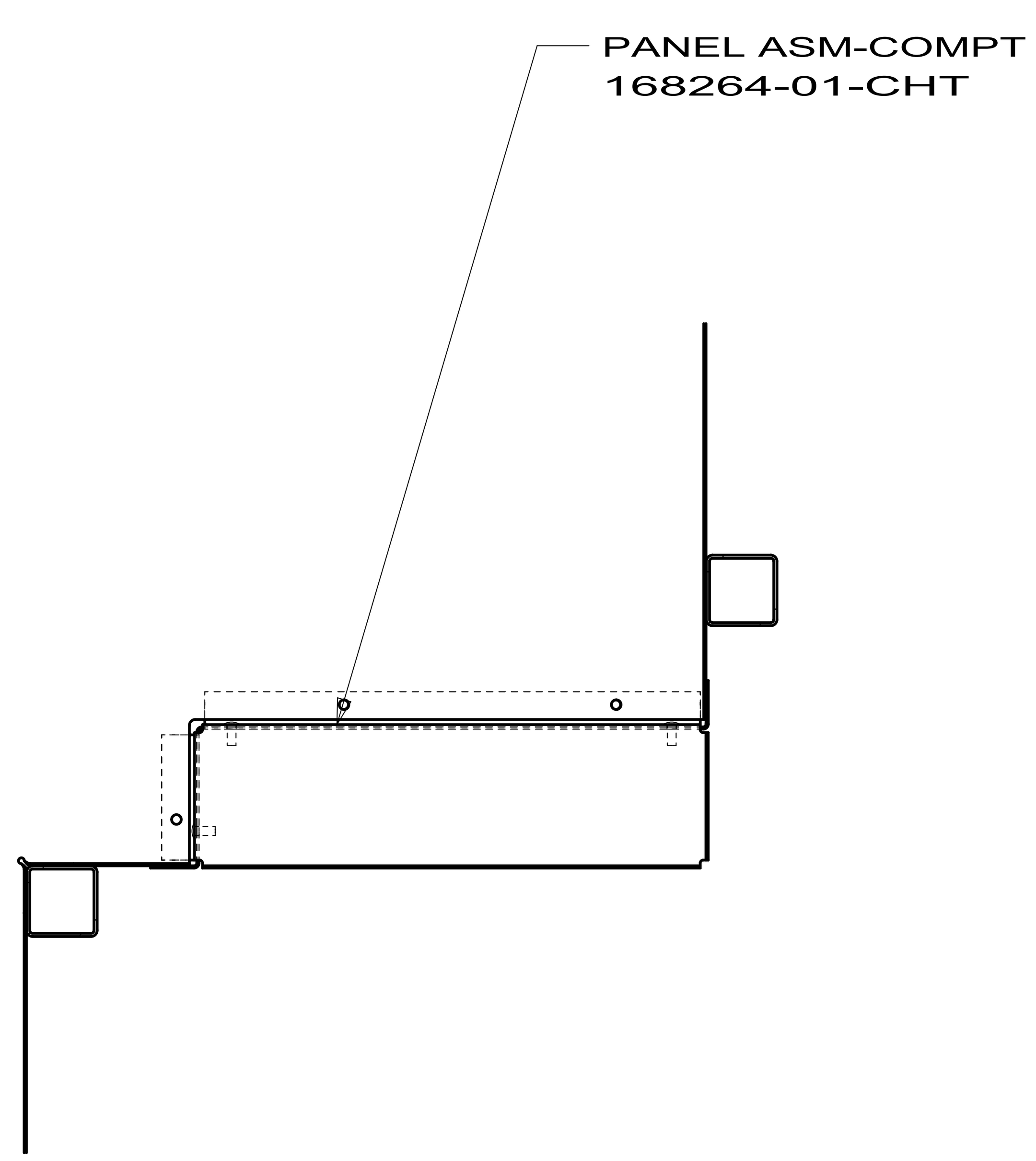
FIRST USED	10 J35P
	DO NOT SCALE DRAWING
TITLE:	FRAME ASM-CHASSIS
SHEET 6	PART NO 171360 REV

3/4/2010

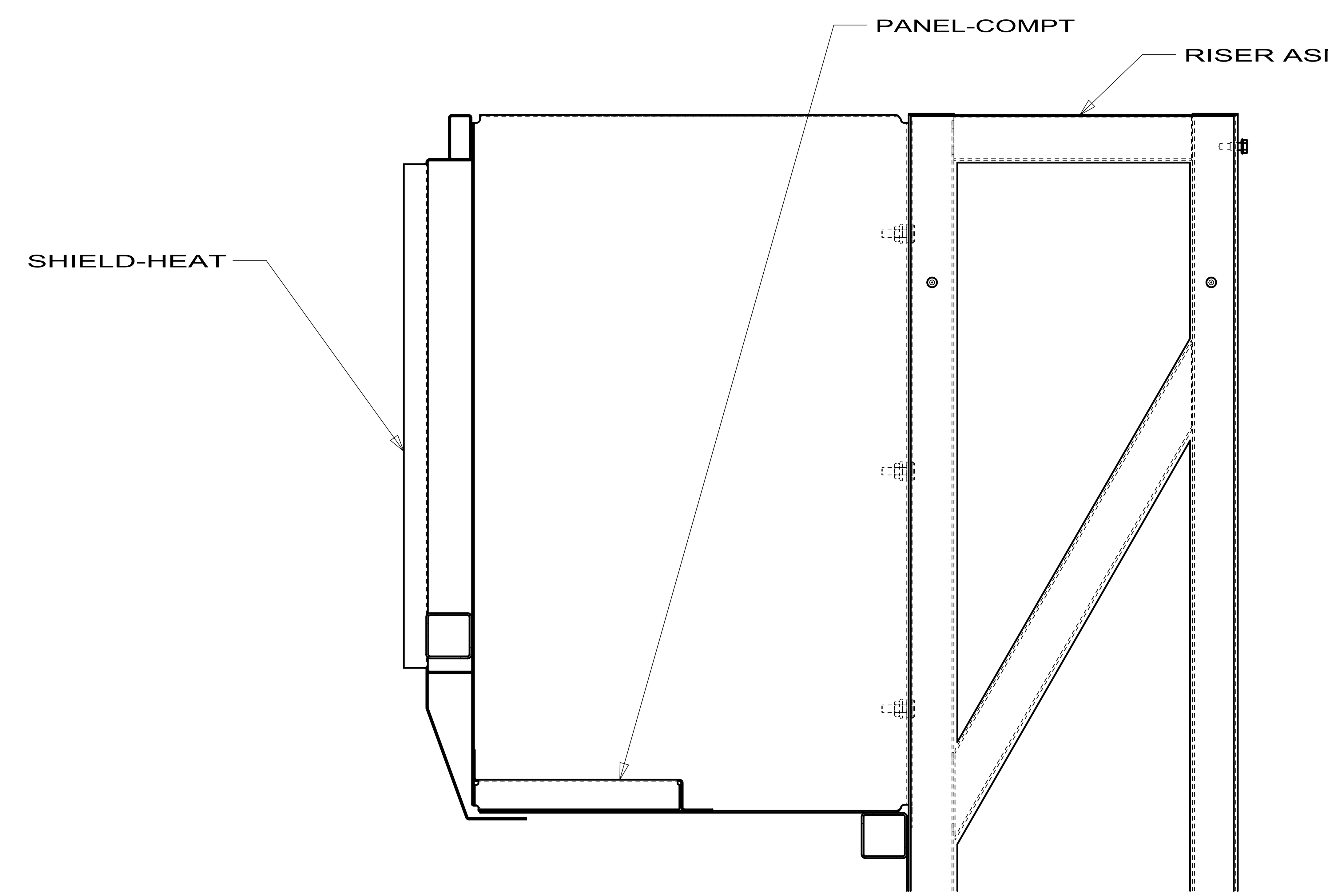
DWG NO 171360



DETAIL GA
FRAME ASM
171360-18



SECTION GB-GB

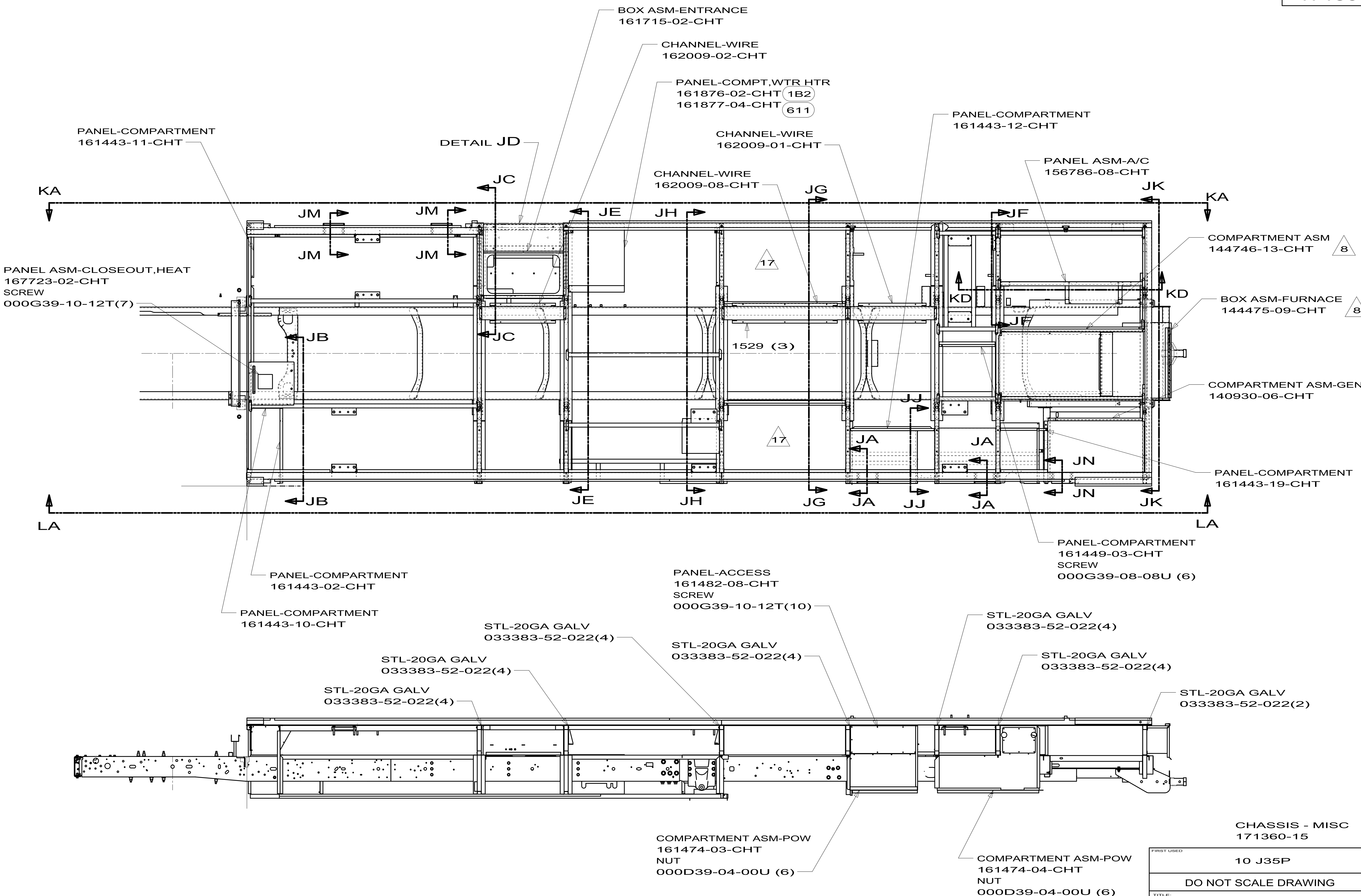


SECTION GC-GC

FIRST USED	10 J35P
DO NOT SCALE DRAWING	
TITLE:	FRAME ASM-CHASSIS
SHEET 7	PART NO 171360 REV

3/4/2010

DWG NO 171360



CHASSIS - MISC
171360-15

FIRST USED: 10 J35P

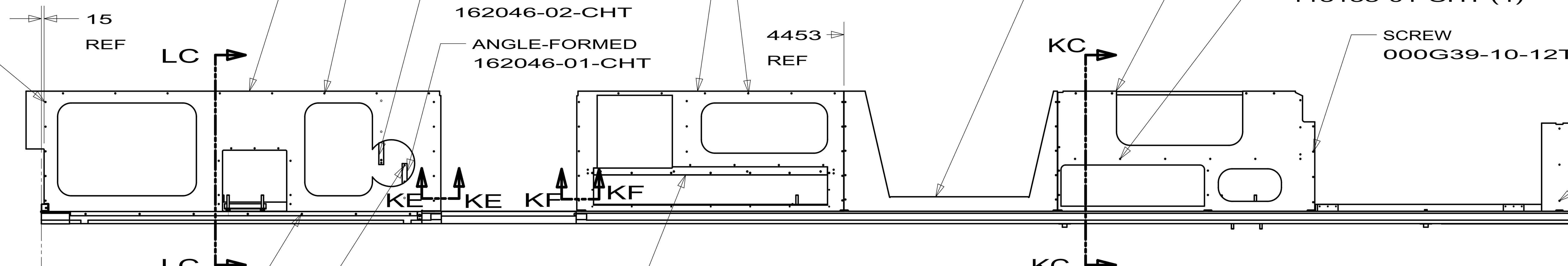
DO NOT SCALE DRAWING

TITLE: FRAME ASM-CHASSIS

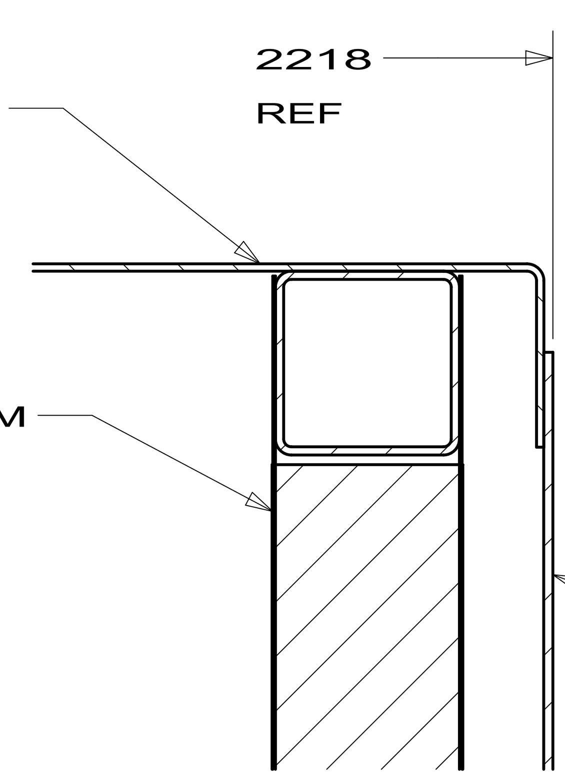
SHEET 8 PART NO 171360 REV

3/4/2010

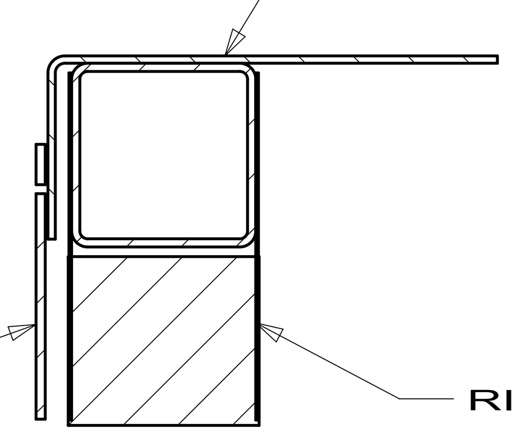

DWG NO 171360
BRACKET
156785-09-CHT
BOLT
000G42-04-12U(4)
PANEL-SEAL
SECTION JA-JA (2 PLCS)
SECTION JM-JM (2 PLCS)
SIMILAR
BRACKET
156785-10-CHT
BOLT
000G42-04-12U(4)
SECTION JN-JN
PANEL-ACCESS
161482-11-CHT
SCREW
000G39-10-12T (8)
SECTION JB-JB
41
BOX ASM-STEP
ANGLE-FORMED
132881-00-700
275
SECTION JC-JC
2219
748
7
2218
INSIDE EDGE
OF STEPBOX
STEP BOX
DETAIL JD
40
3
BRACKET ASM-SUPT
161173-03-CHT
SECTION JE-JE
CHANNEL-WIRE PATH,BOTTOM
PANEL-COMPARTMENT
161449-02-CHT
935
INSIDE FACES
OF PANELS
778
INSIDE FACE
OF PANEL
SECTION JG-JG
PANEL-COMPARTMENT
161443-07-CHT
SCREW
000G39-10-12T (2)
SECTION JF-JF
BRACKET ASM-SUPT
161173-04-CHT
40
3
PANEL-COMPARTMENT
161443-09-CHT
SCREW
000G39-10-12T (3)
253
SECTION JH-JH
2 25
145
STL-TUBE
138291-00-800 14
2
JL
JL
2 25
SECTION JK-JK
PANEL-FUEL FILL
167933-02-CHT
SECTION JJ-JJ
FRAME ASM
STL-TUBE
25
SECTION JL-JL
FIRST USED
10 J35P
DO NOT SCALE DRAWING
TITLE:
FRAME ASM-CHASSIS
SHEET 9
PART NO
171360
REV
3/4/2010



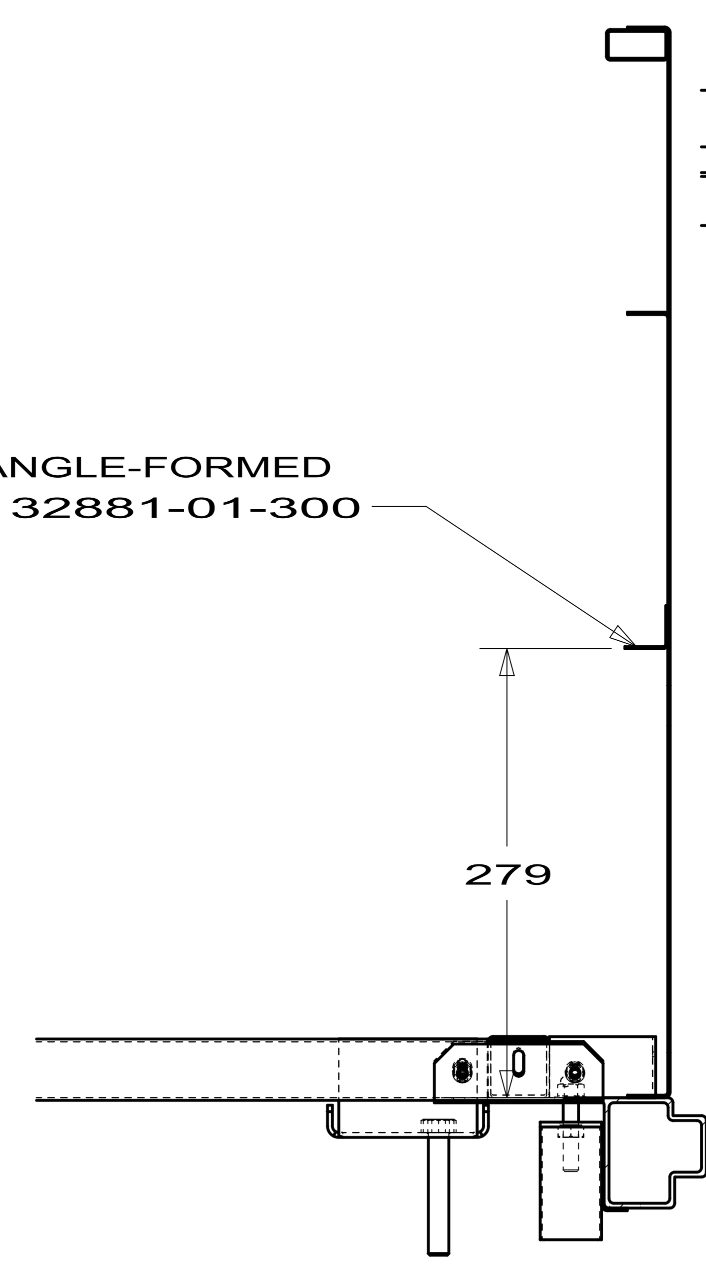
SECTION KA-KA
SEAL PLANE ASM - RH
171360-16



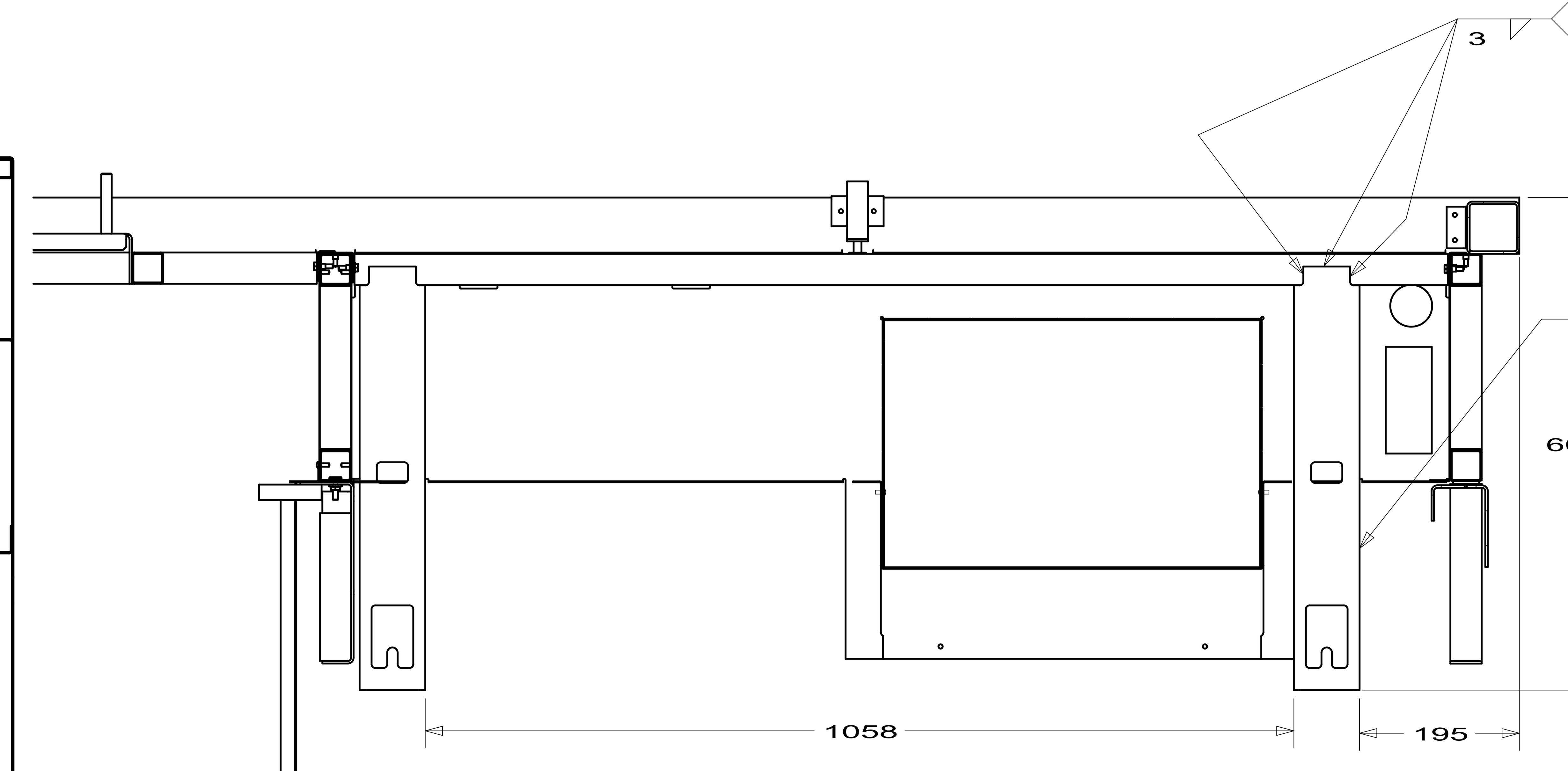
SECTION KE-KE



SECTION KF-KF

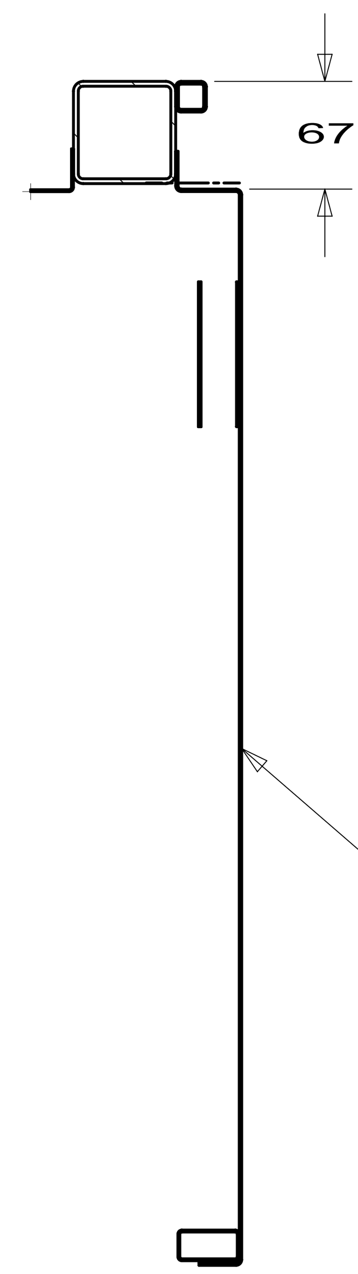


SECTION KC-KC

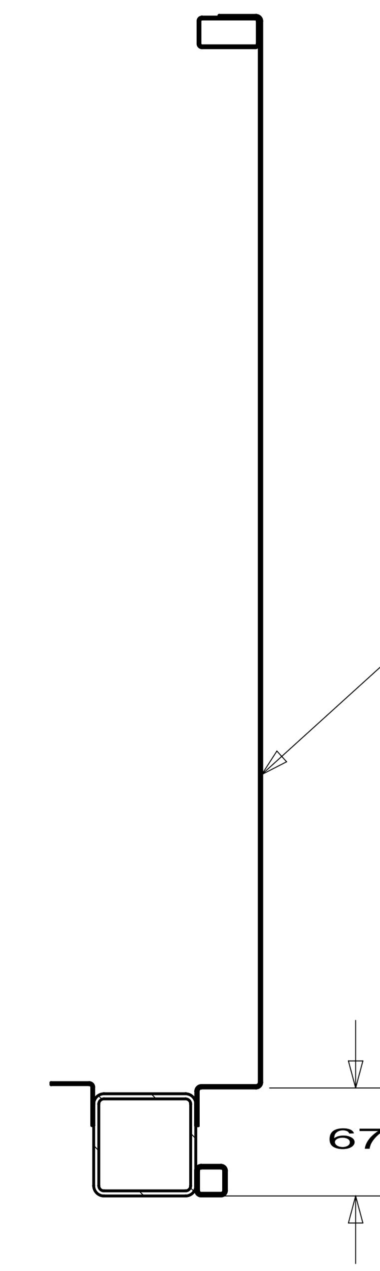


SECTION KD-KD

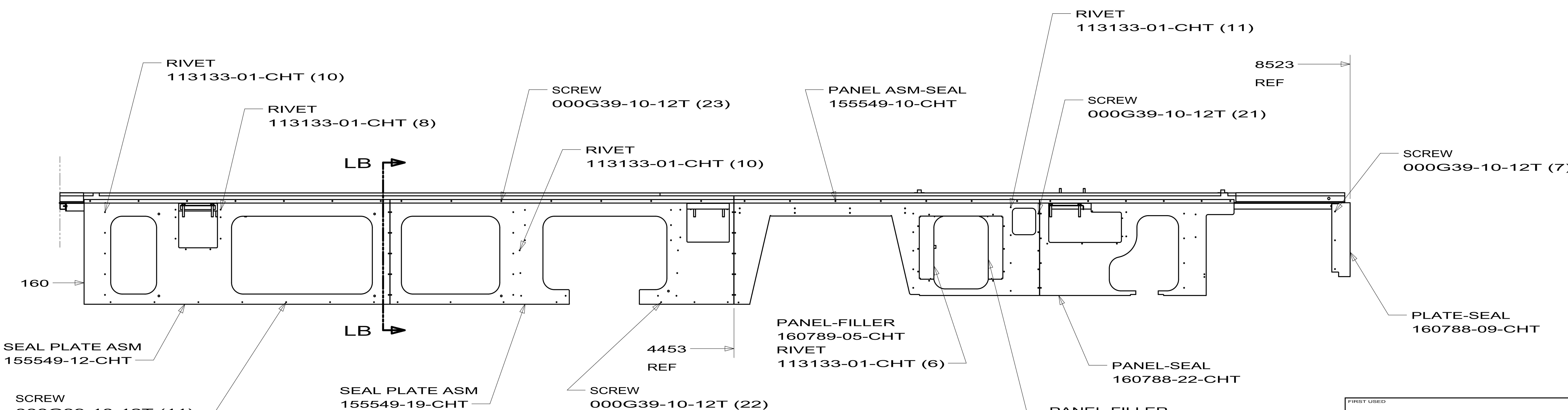
FIRST USED	10 J35P
DO NOT SCALE DRAWING	
TITLE:	FRAME ASM-CHASSIS
SHEET 10	PART NO 171360 REV



SECTION LB-LB



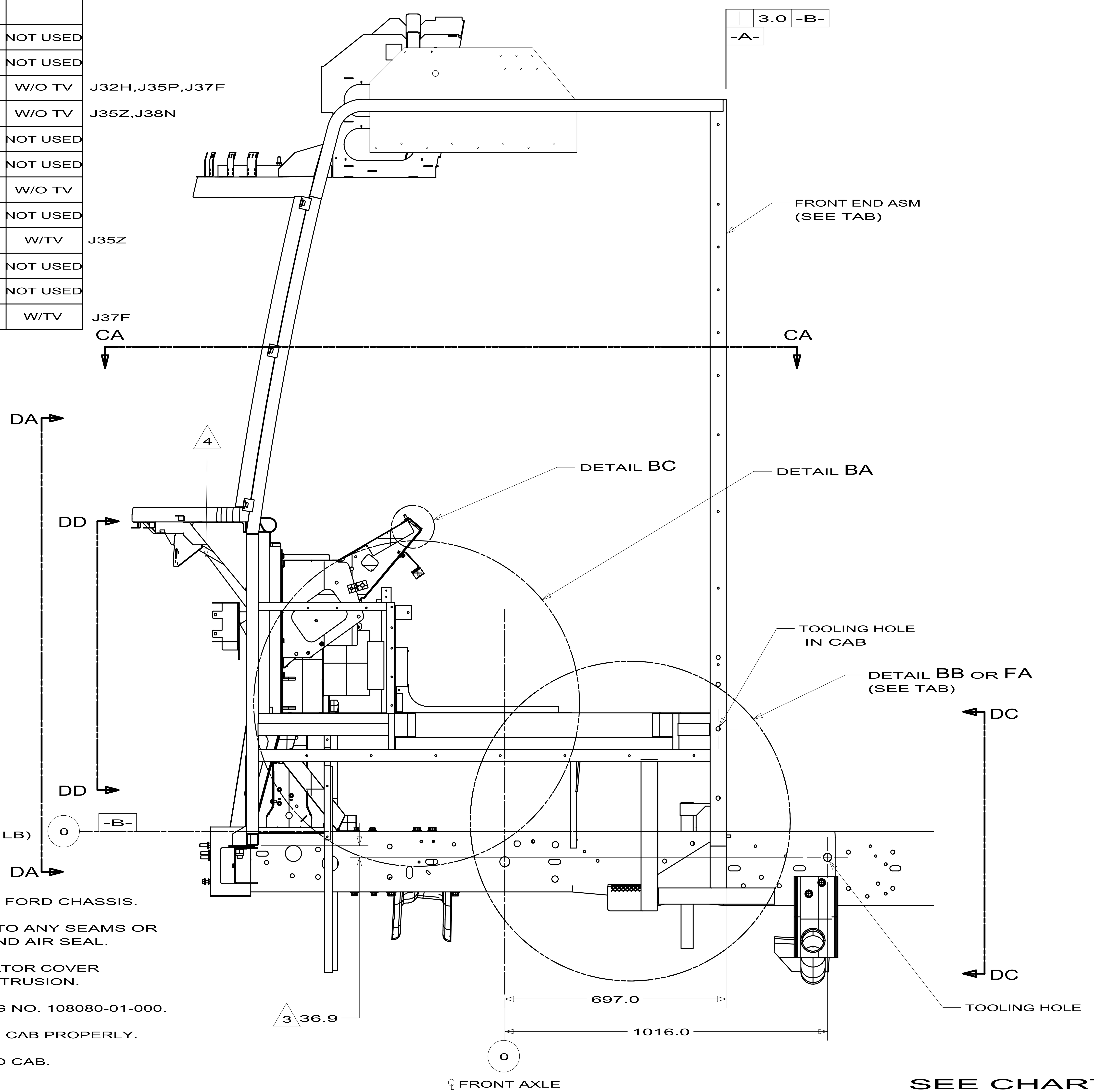
SECTION LC-LC



SECTION LA-LA
SEAL PLANE ASM - LH
171360-17

FIRST USED	10 J35P
	DO NOT SCALE DRAWING
TITLE:	FRAME ASM-CHASSIS
SHEET 11	PART NO 171360 REV

DWG NO	FRONT END ASM	DETAIL	VIEW		
164504-01	164505-01-CHT	BB	EB	NOT USED	
164504-02	164505-02-CHT	FA	EB	NOT USED	
164504-03	164505-03-CHT	FA	EB	W/O TV	J32H,J35P,J37F
164504-04	164505-04-CHT	FA	EB	W/O TV	J35Z,J38N
164504-05	164505-01-CHT	BB	ED	NOT USED	
164504-06	164505-02-CHT	FA	ED	NOT USED	
164504-07	164505-03-CHT	FA	ED	W/O TV	
164504-08	164505-04-CHT	FA	ED	NOT USED	
164504-09	164505-05-CHT	FA	EB	W/TV	J35Z
164504-10	164505-05-CHT	FA	ED	NOT USED	
164504-11	164505-06-CHT	FA	EB	NOT USED	
164504-12	164505-07-CHT	FA	EB	W/TV	J37F



9. TORQUE TO: 191-209 Nm (143-157 FT LB)
8. ADD OR REMOVE SHIMS AS NEEDED TO LEVEL FRONT END ASM.
7. USED TO FILL BULKHEAD AREA ON 2007 FORD CHASSIS.
6. APPLY PUTTY SEALER, 111940-02-000, TO ANY SEAMS OR HOLES THAT NEED A FLEXIBLE DUST AND AIR SEAL.
5. ALIGN FRONT OF PANEL ASM WITH RADIATOR COVER AND REAR WITH ENGINE COVER SEAL EXTRUSION.
4. FOR BRAKE INST-EMERGENCY SEE DWG NO. 108080-01-000.
3. ADJUST HEIGHT OF SUPPORT TO LOCATE CAB PROPERLY.
2. SEAL ALL JOINTS BETWEEN PANELS AND CAB.
1. REMOVE ALL BURRS AND SHARP EDGES.

NOTES:

SEE CHART

FOR COLOR VARIATIONS OF THIS PART

RELEASE REV A DATE DWG NO 164504

REV | ZONE | REVISION RECORD | DATE | DFTR-ORIG

WINNEBAGO INDUSTRIES

DFTR | ORIG. DATE
CHKR
P.E.
M.E.
DSNR

ALL DIMENSIONS ARE IN MILLIMETERS

FIRST USED: 09 J, K FORD

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

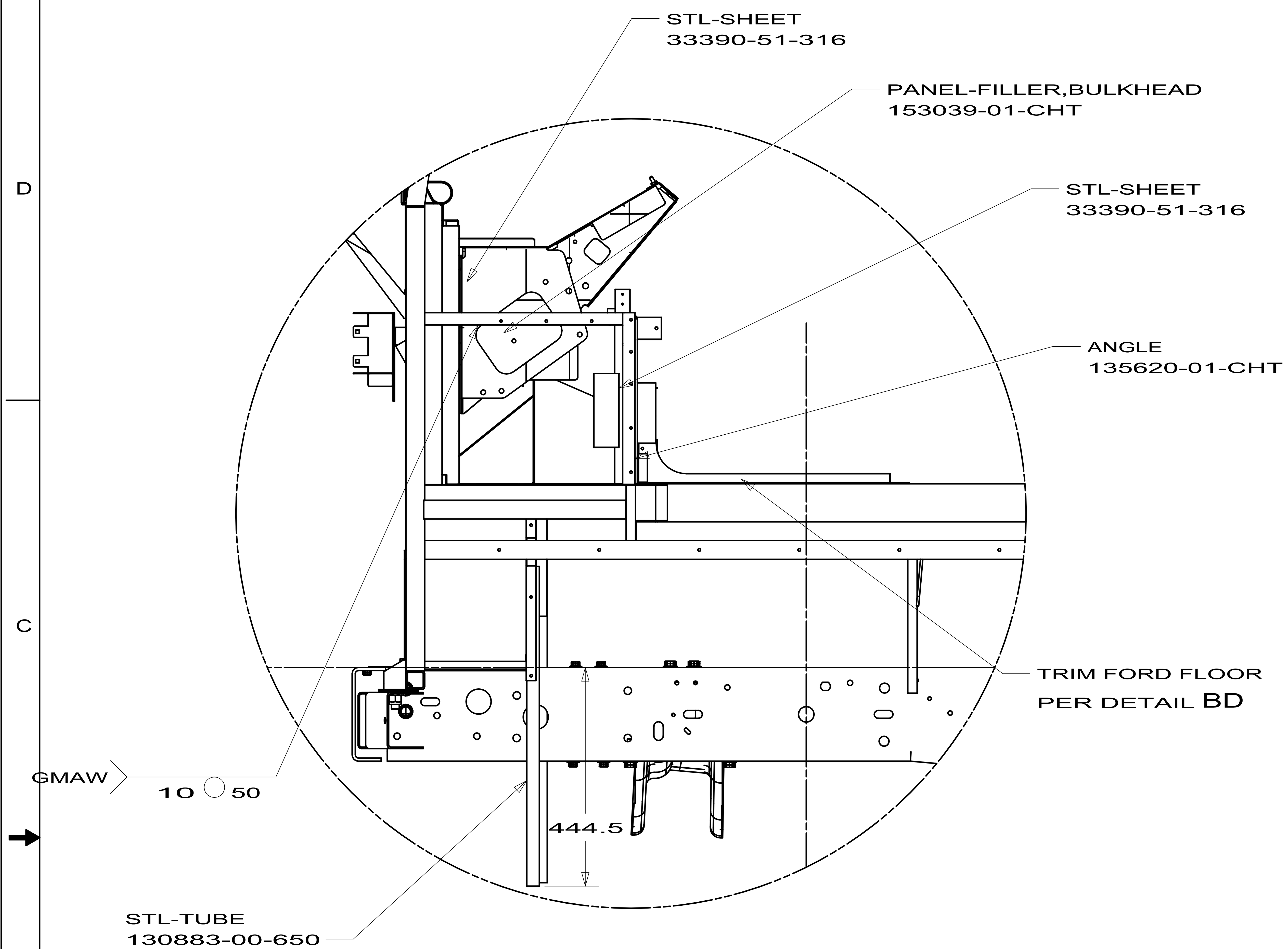
DO NOT SCALE DRAWING

TITLE: FRONT END/CHASSIS ASM

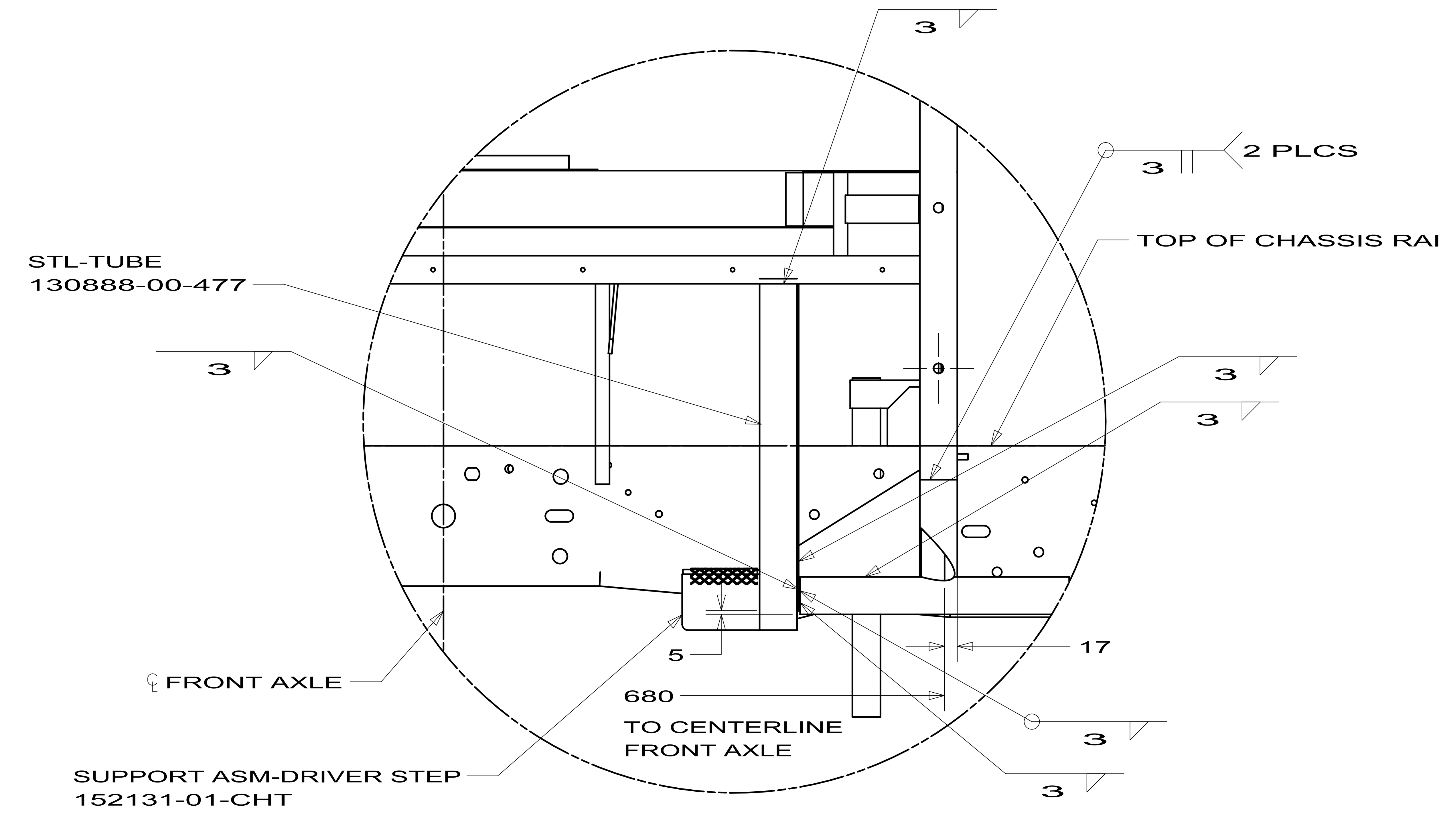
SHEET 1 OF 6 | PART NO 164504 | REV

REF:

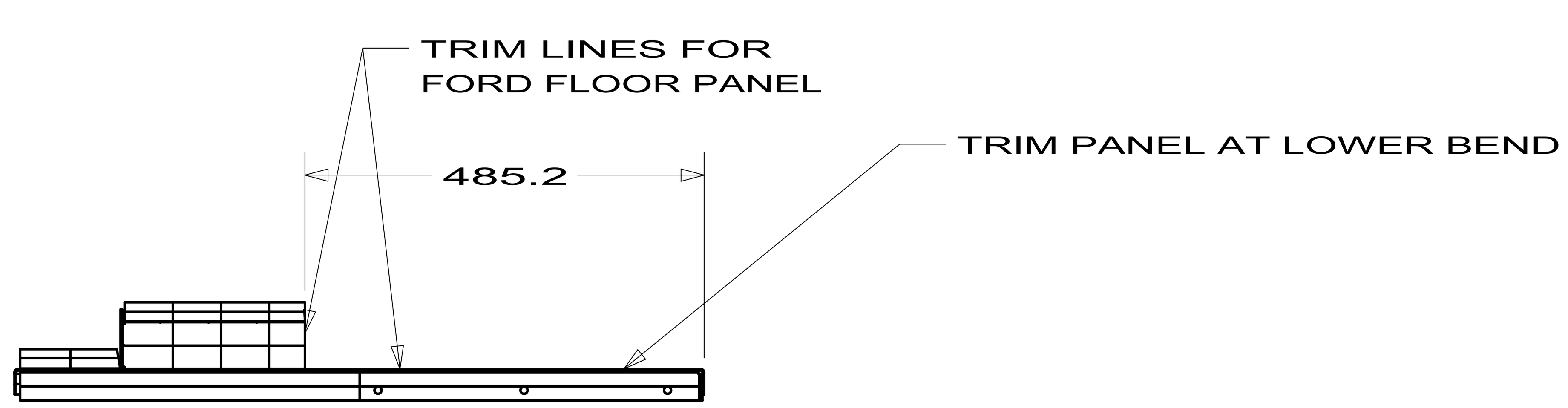
DWG NO 164504



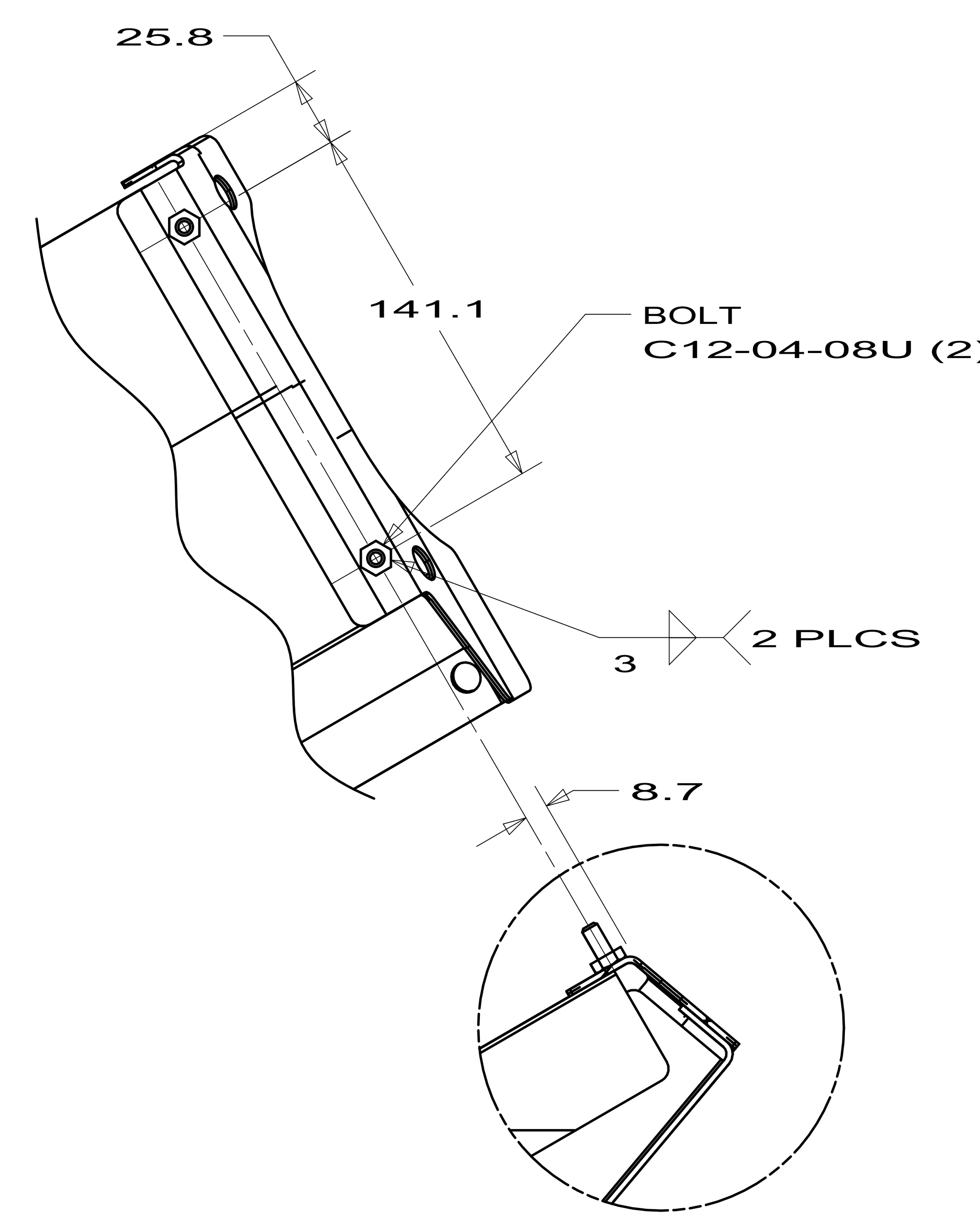
DETAIL BA



DETAIL BB



DETAIL BD



DETAIL BC

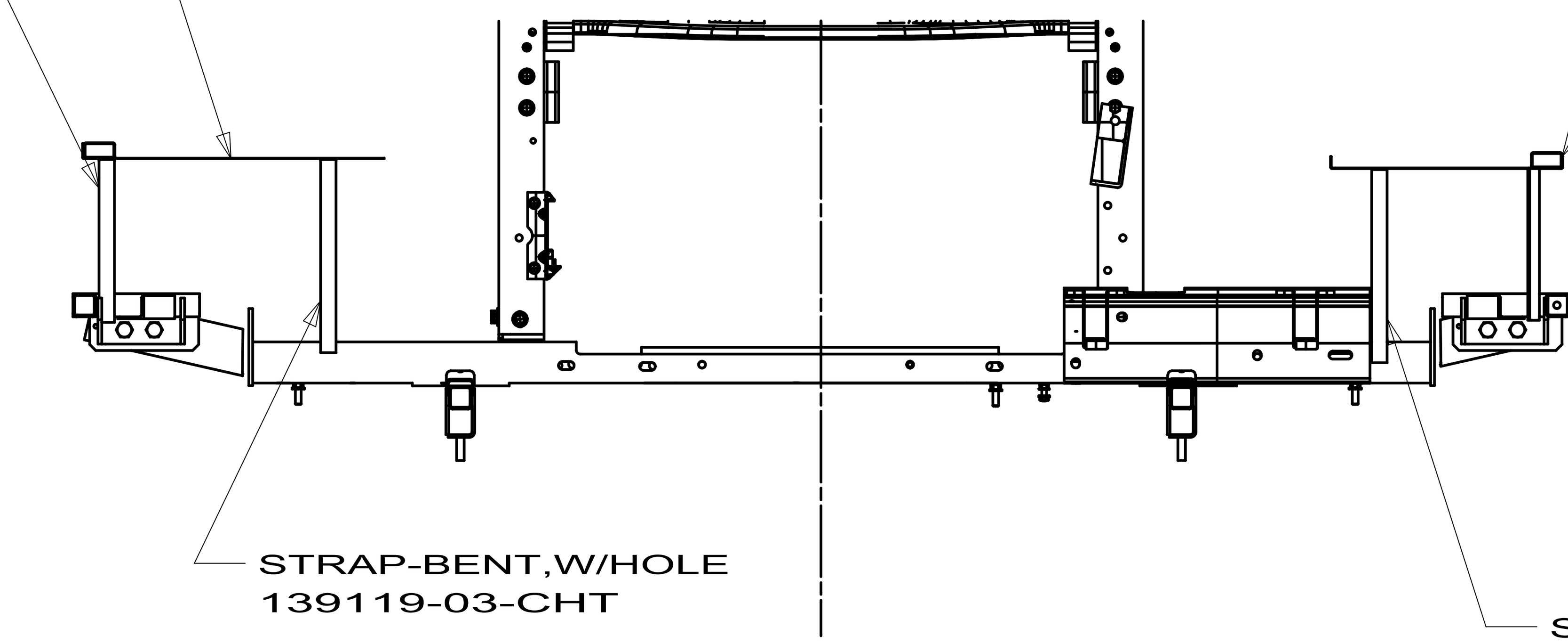
FIRST USED	09 J, K FORD
	DO NOT SCALE DRAWING
TITLE:	FRONT END/CHASSIS ASM
SHEET 2	PART NO 164504 REV


DWG NO 164504
DETAIL CB
INSULATION-FLOOR,CAB
135774-01-000
GMAW
10 50
ANGLE-FILLER,FORD
117315-02-CHT
2
PANEL-FILLER,TOE KICK,TOP
153920-01-CHT
PANEL-FILLER,TOE KICK
155442-01-CHT
VIEW CC-CC
℄ VEHICLE
0
-C-
CC
CD
PANEL-PLATFORM,FORD
153939-01-CHT
SCREW
G39-10-12T (4)
5
STRAP-W/HOLE
138053-01-CHT
STL-ANG
(CHASSIS SUPPLIED)
FRAME RAIL
3
SECTION CD-CD
DETAIL CB
SECTION CA-CA
PANEL-FILLER,FORD
144665-03-CHT
3.0 -C-
FIRST USED
09 J, K FORD
DO NOT SCALE DRAWING
TITLE:
FRONT END/CHASSIS ASM
SHEET 3
PART NO 164504
REV

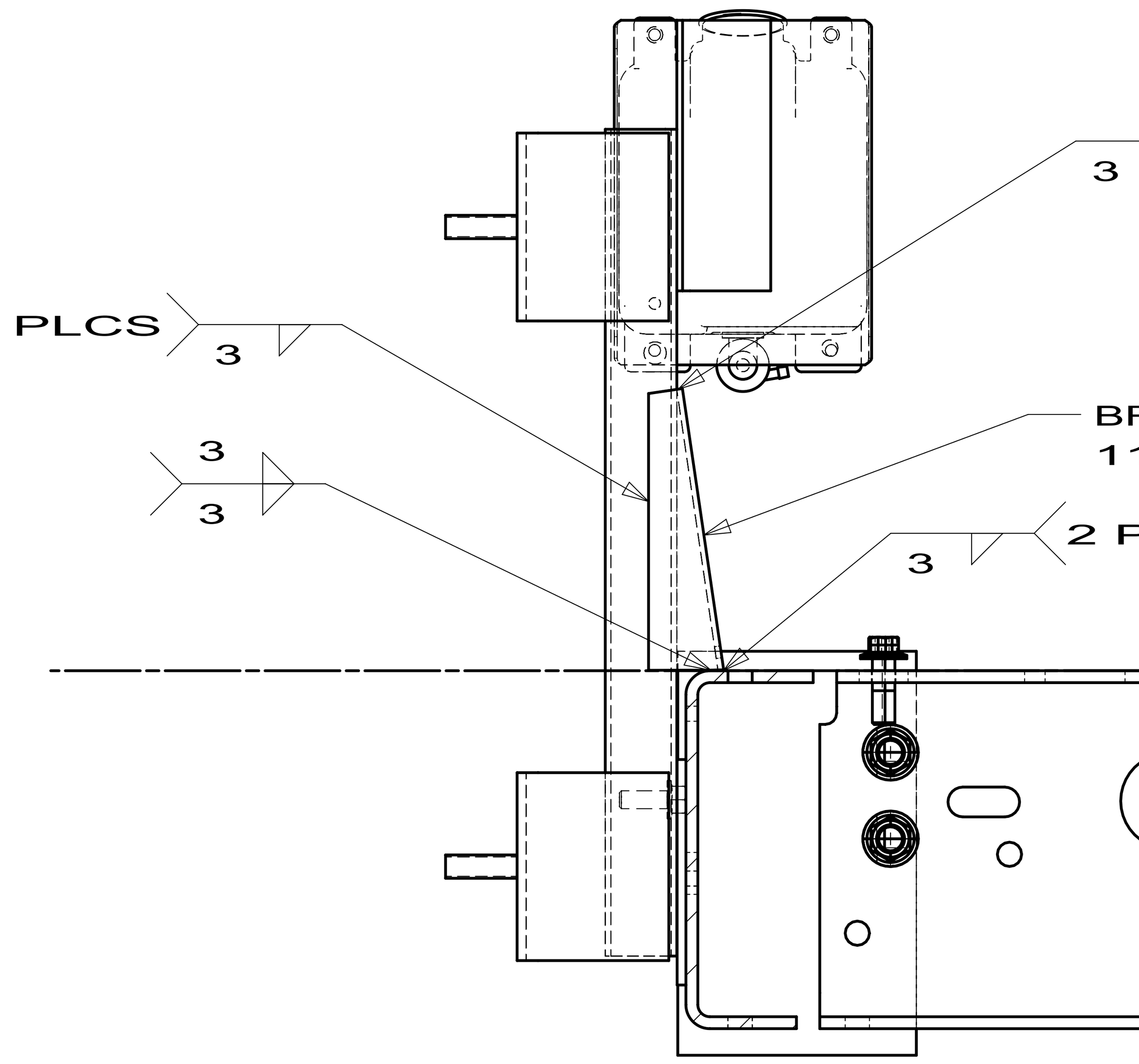
DWG NO 164504

FIRST USED	09 J, K FORD
DO NOT SCALE DRAWING	
TITLE:	FRONT END/CHASSIS ASM
SHEET 4	PART NO 164504 REV

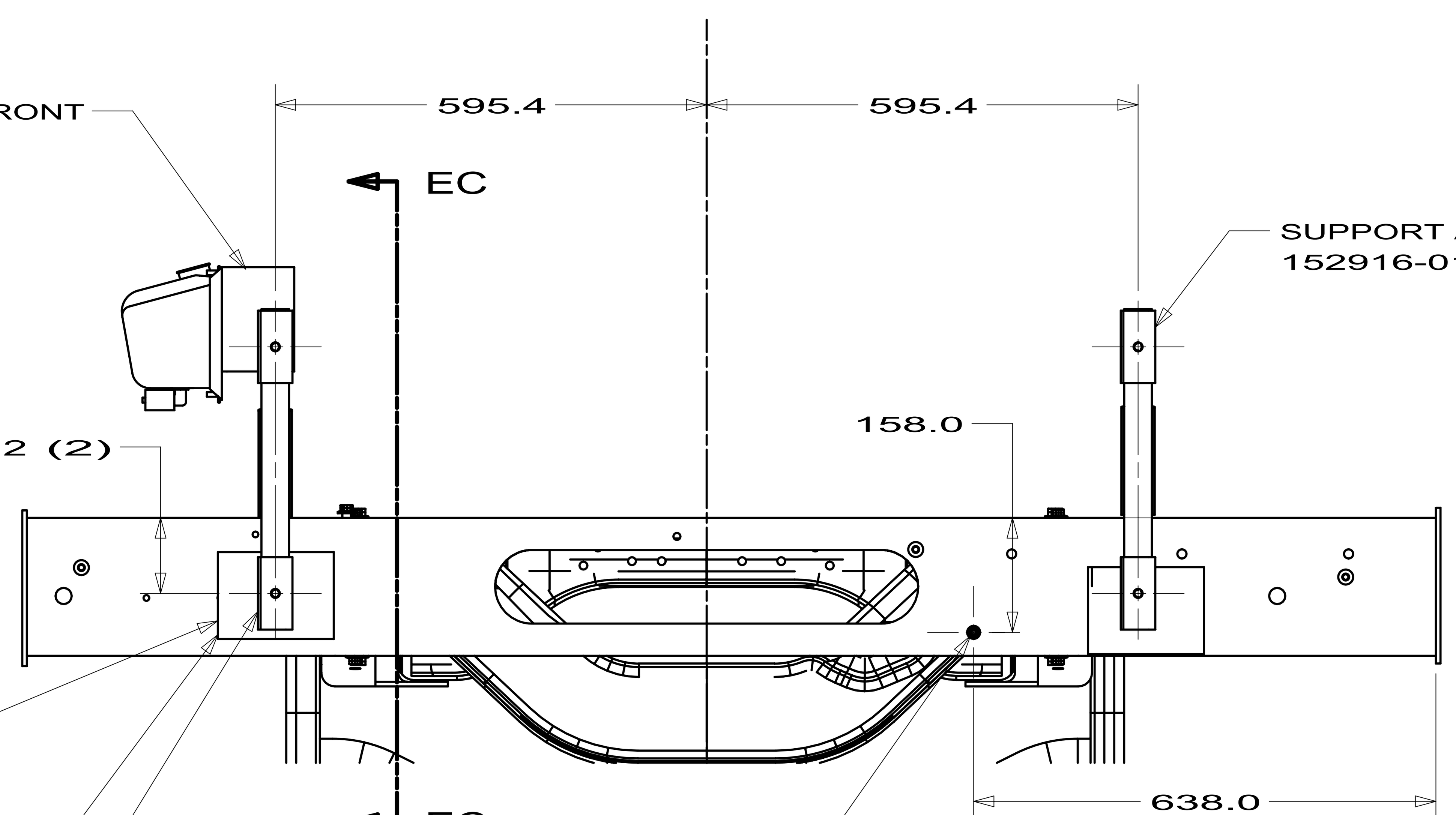
DWG NO 164504



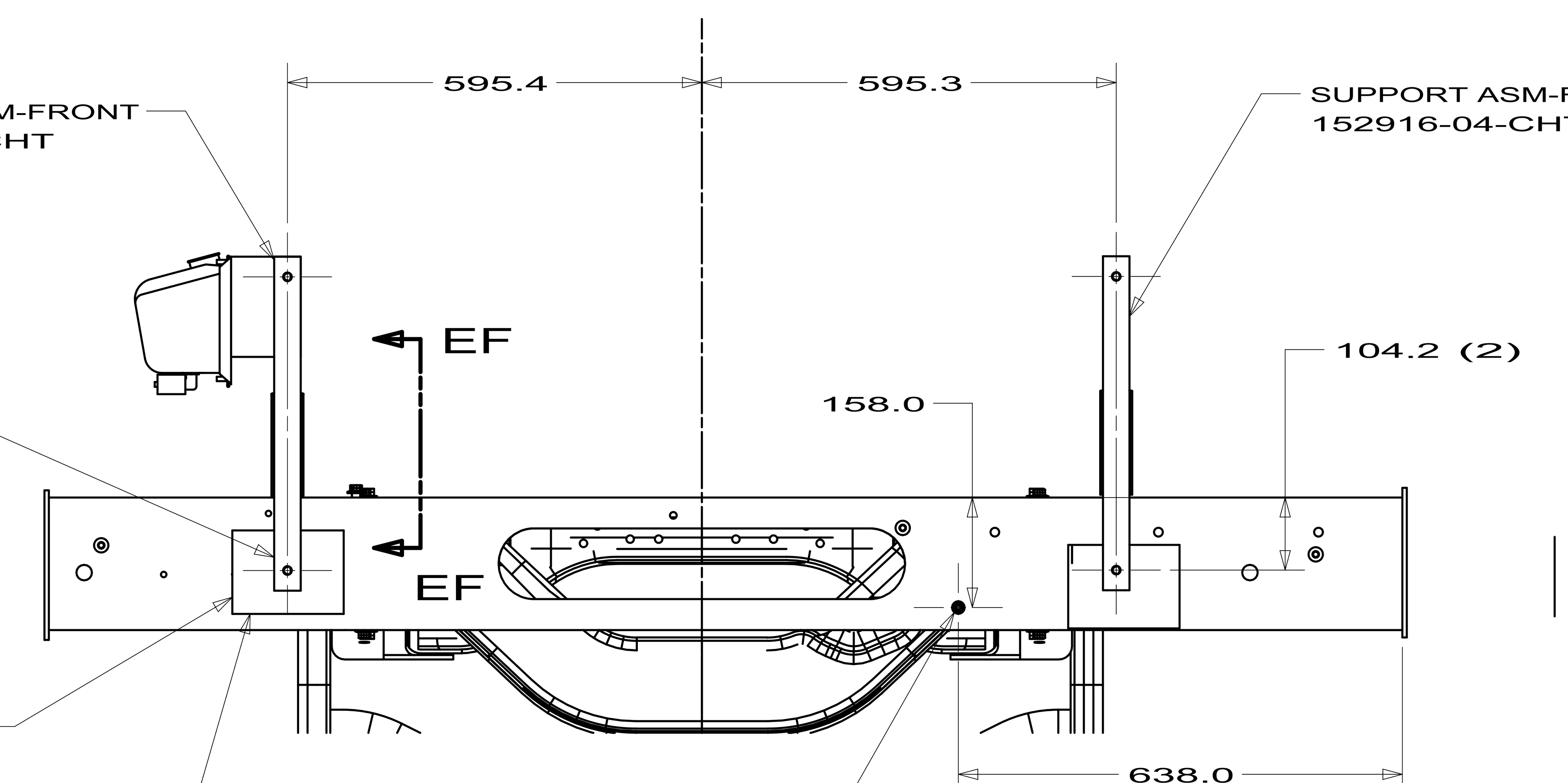
SECTION EA-EA



SECTION EC-EC
(SHOWN)
SECTION EF-EF
(SIMILAR)



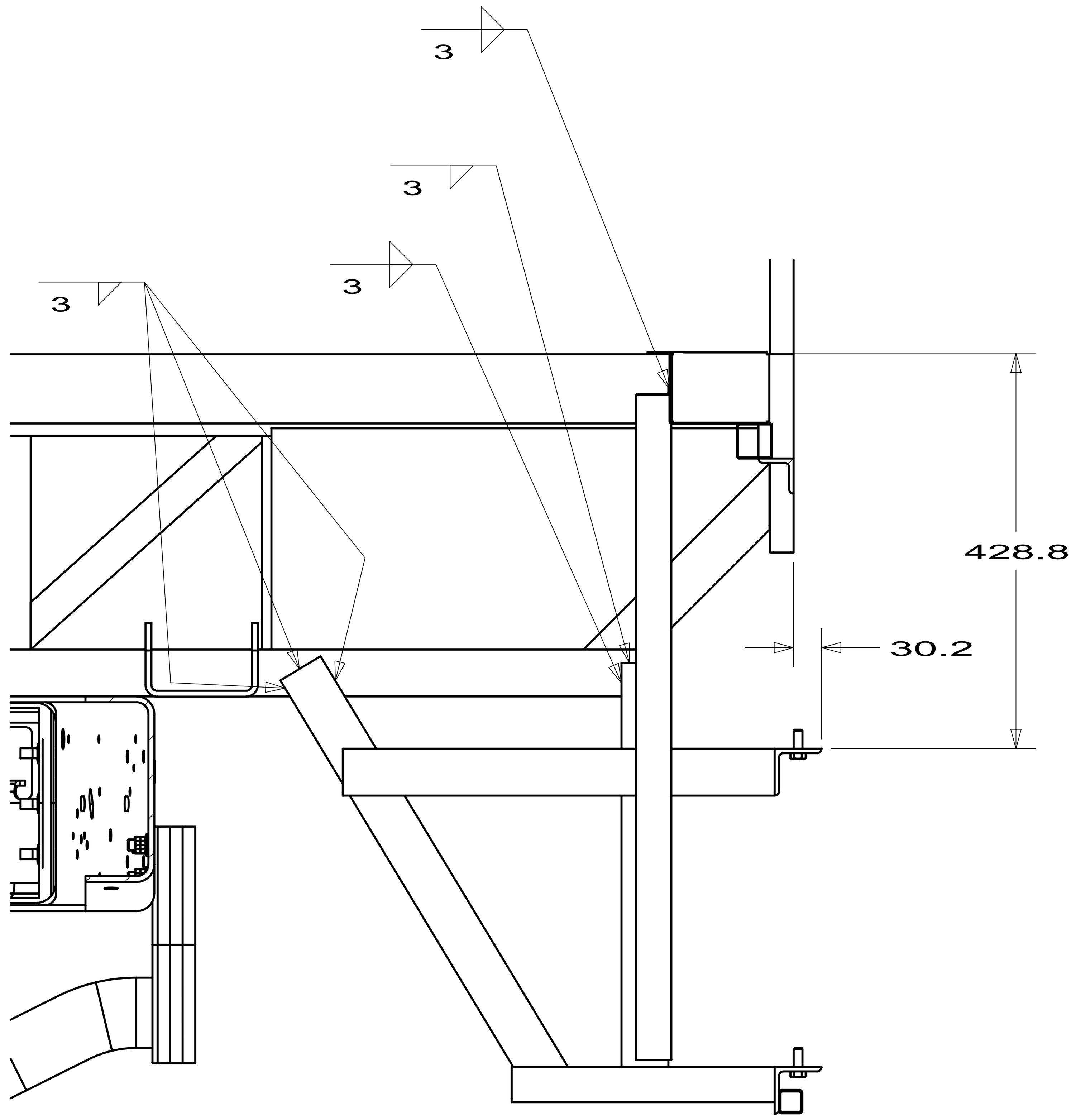
VIEW EB



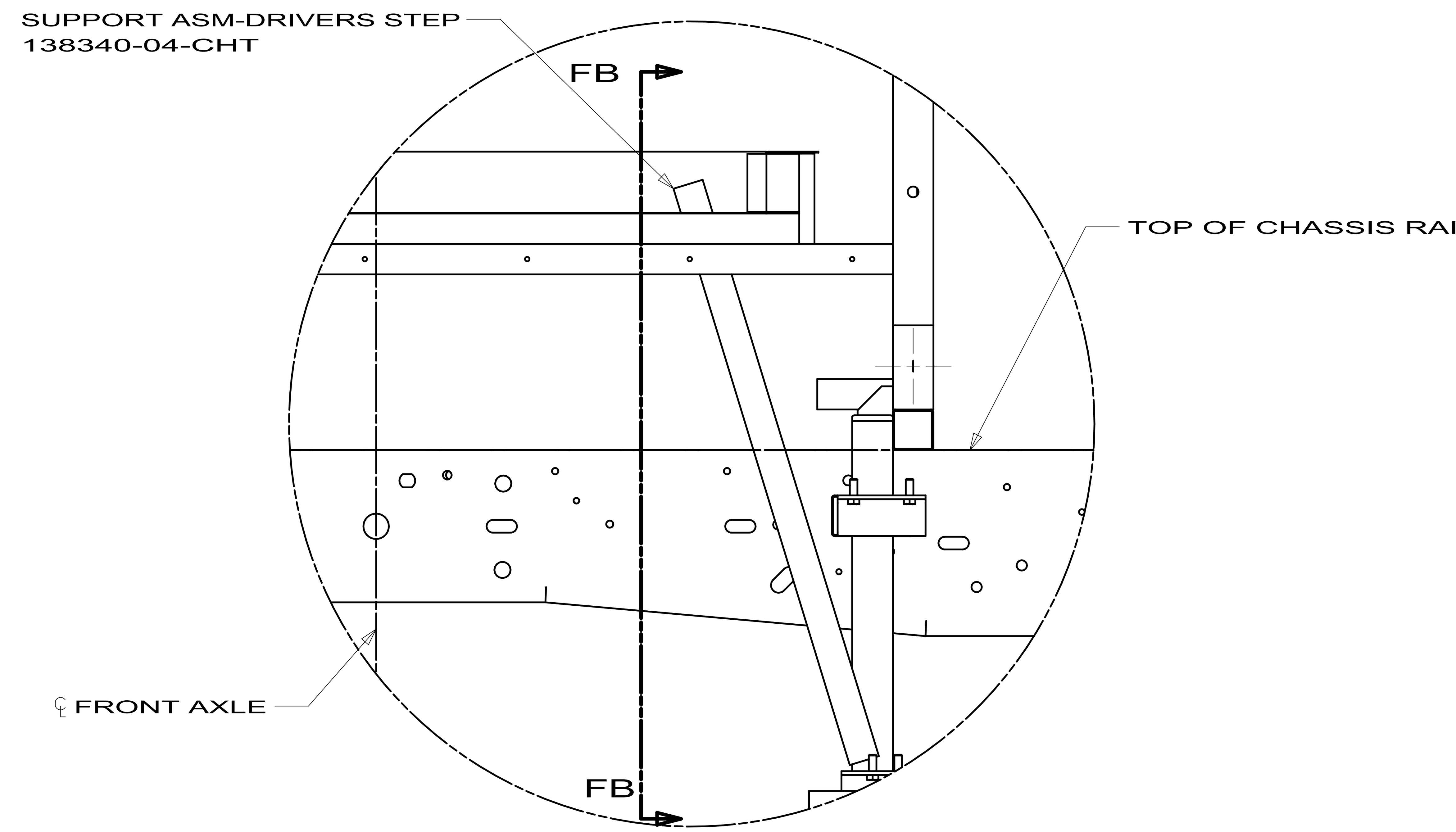
VIEW ED

FIRST USED	09 J, K FORD
	DO NOT SCALE DRAWING
TITLE:	FRONT END/CHASSIS ASM
SHEET 5	PART NO 164504 REV

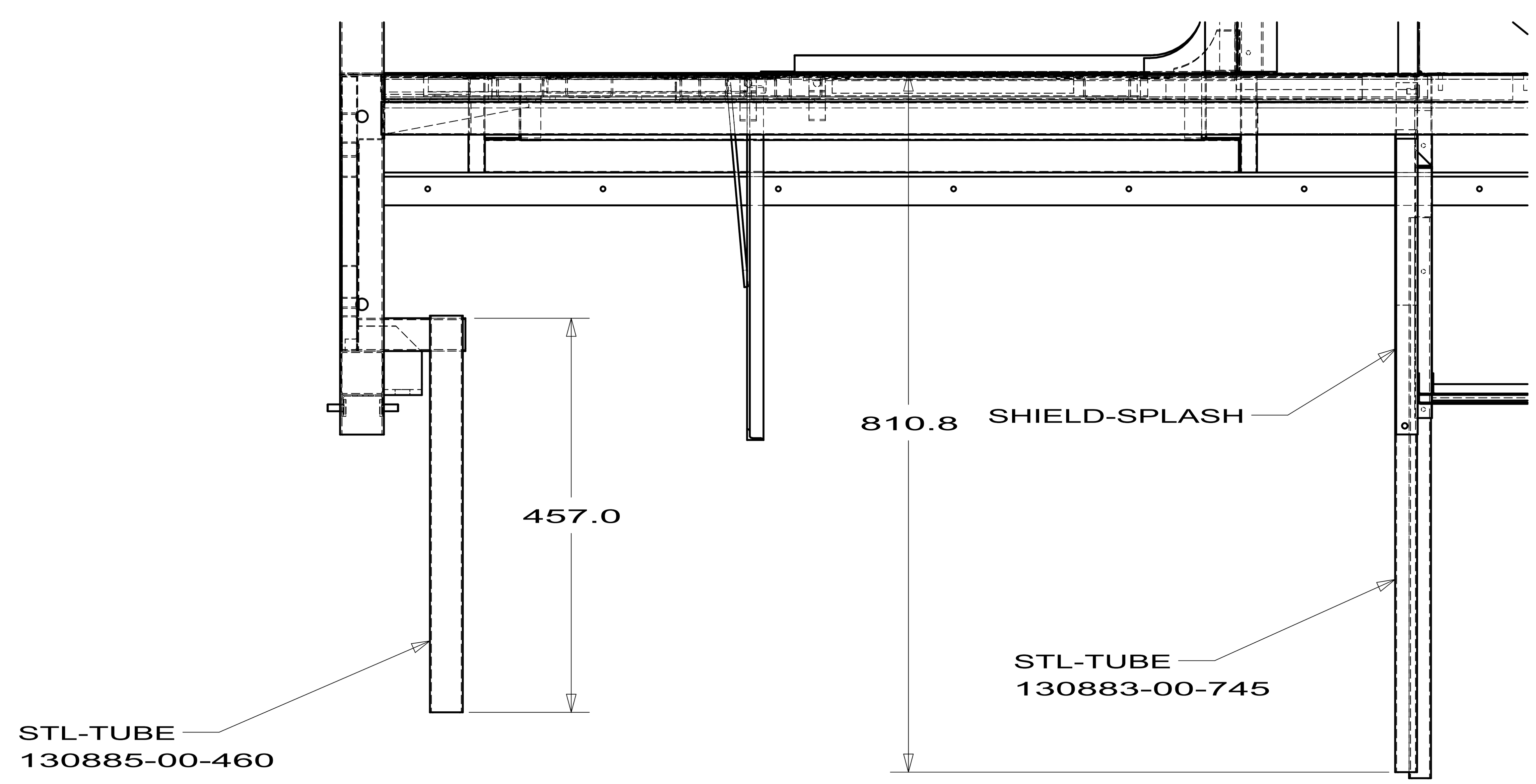
DWG NO 164504



SECTION FB-FB



DETAIL FA



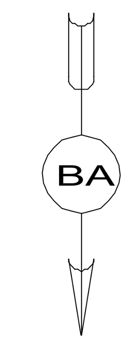
SECTION FC-FC

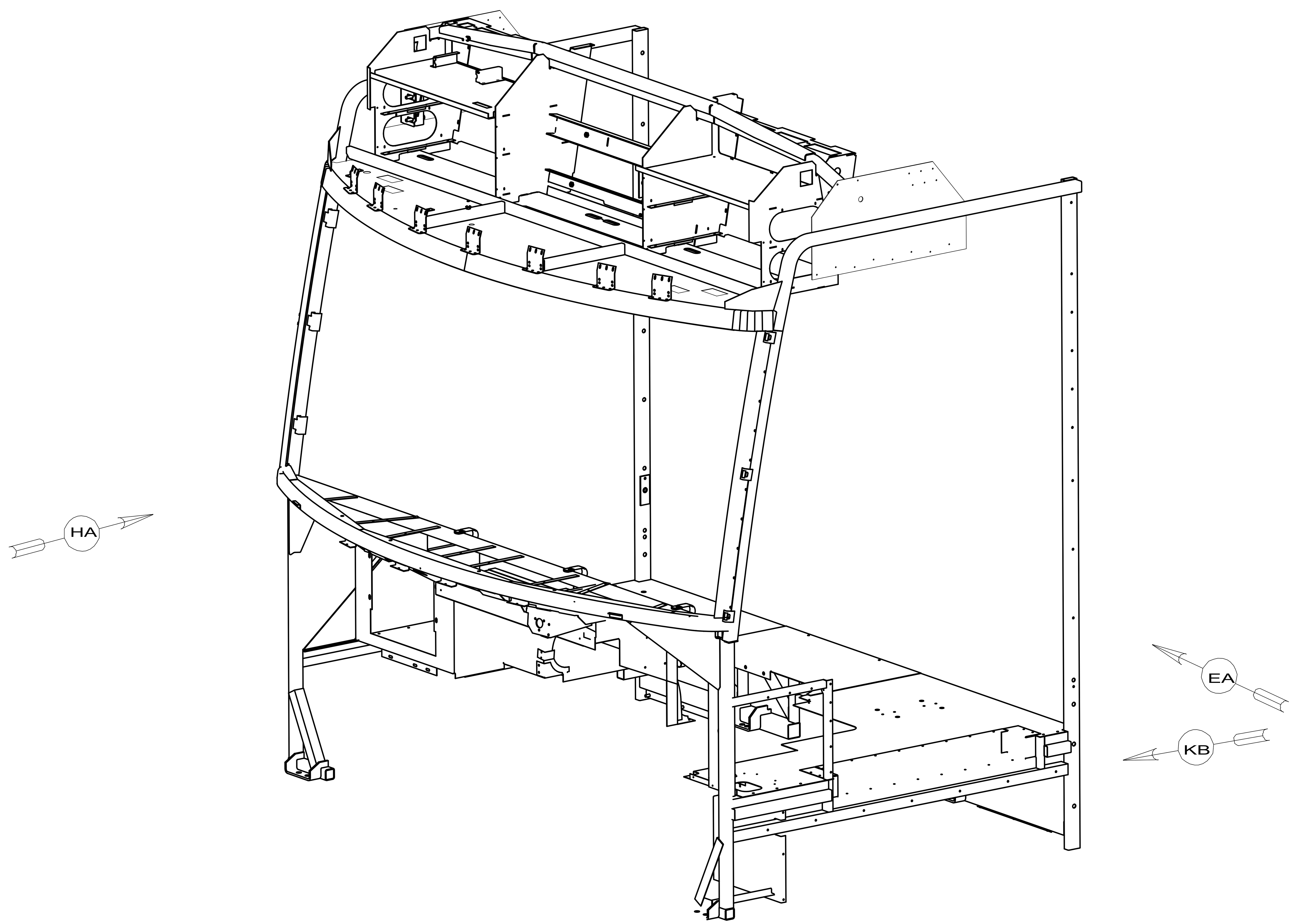
FIRST USED	09 J, K FORD
DO NOT SCALE DRAWING	
TITLE:	FRONT END/CHASSIS ASM
SHEET 6	PART NO 164504 REV

DWG NO	LH B PILLAR	RISER ASM-CAB	SUPPORT ASM-TV	TUBE-TOP,LH	PLATE ASM-LH	A	B
164505-01	127874-09-CHT	145125-10-CHT	151975-03-CHT	117344-05-CHT	150653-04-CHT	0.0	10.0
164505-02	127874-10-CHT	145125-07-CHT	151975-03-CHT	117344-05-CHT	150653-04-CHT	0.0	10.0
164505-03	127874-10-CHT	145125-07-CHT	151975-02-CHT	117344-10-CHT	150653-07-CHT	34.0	40.0
164505-04	127874-10-CHT	145125-07-CHT	151975-02-CHT	117344-05-CHT	150653-04-CHT	0.0	10.0
164505-05	127874-10-CHT	145125-07-CHT	151975-04-CHT	117344-05-CHT	150653-04-CHT	0.0	10.0
164505-06	127874-10-CHT	145125-07-CHT	151975-03-CHT	117344-10-CHT	150653-07-CHT	34.0	40.0
164505-07	127874-10-CHT	145125-07-CHT	151975-04-CHT	117344-10-CHT	150653-07-CHT	34.0	40.0
164505-08	127874-10-CHT	145125-07-CHT	151975-05-CHT	117344-10-CHT	150653-07-CHT	34.0	40.0

RELEASE REV A DATE DWG NO 164505

REV ZONE REVISION RECORD DATE DFTR-ORIG





28F FRONT SHADE-POWERED

7. TORQUE BOLT TO 34 FT-LBS.

6. SEAL WITH SEALANT II0744-C3-000 AFTER E-COAT.

5. ALIGN HOLES.

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

3. MUST BE FLUSH WITHIN ± 1.5.

2. ATTACH AFTER E-COAT.

1. CLEAN, E-COAT AND SEAL CAB WITH 143201-01-000.

NOTES:

SEE CHART

FOR COLOR VARIATIONS OF THIS PART

WINNEBAGO INDUSTRIES

DFTR

ORIG. DATE

CHKR

P.E.

ALL DIMENSIONS ARE IN MILLIMETERS

M.E.

FIRST USED

DSNR

09 J,K FORD

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

REFER TO ES0018 FOR FASTENER TIGHTENING GUIDELINES

TITLE:

FRONT END ASM

SHEET 1 OF 11 PART NO 164505 REV

REF:

2/23/2010

DWG NO 164505

FIRST USED: 09 J,K FORD

DO NOT SCALE DRAWING

TITLE: FRONT END ASM

SHEET 2 | PART NO 164505 | REV

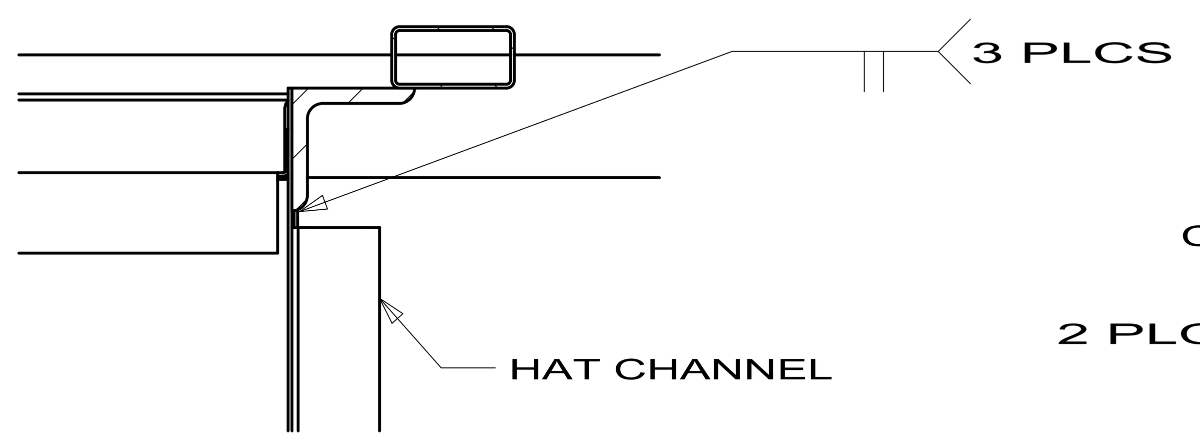
2/23/2010

DWG NO 164505

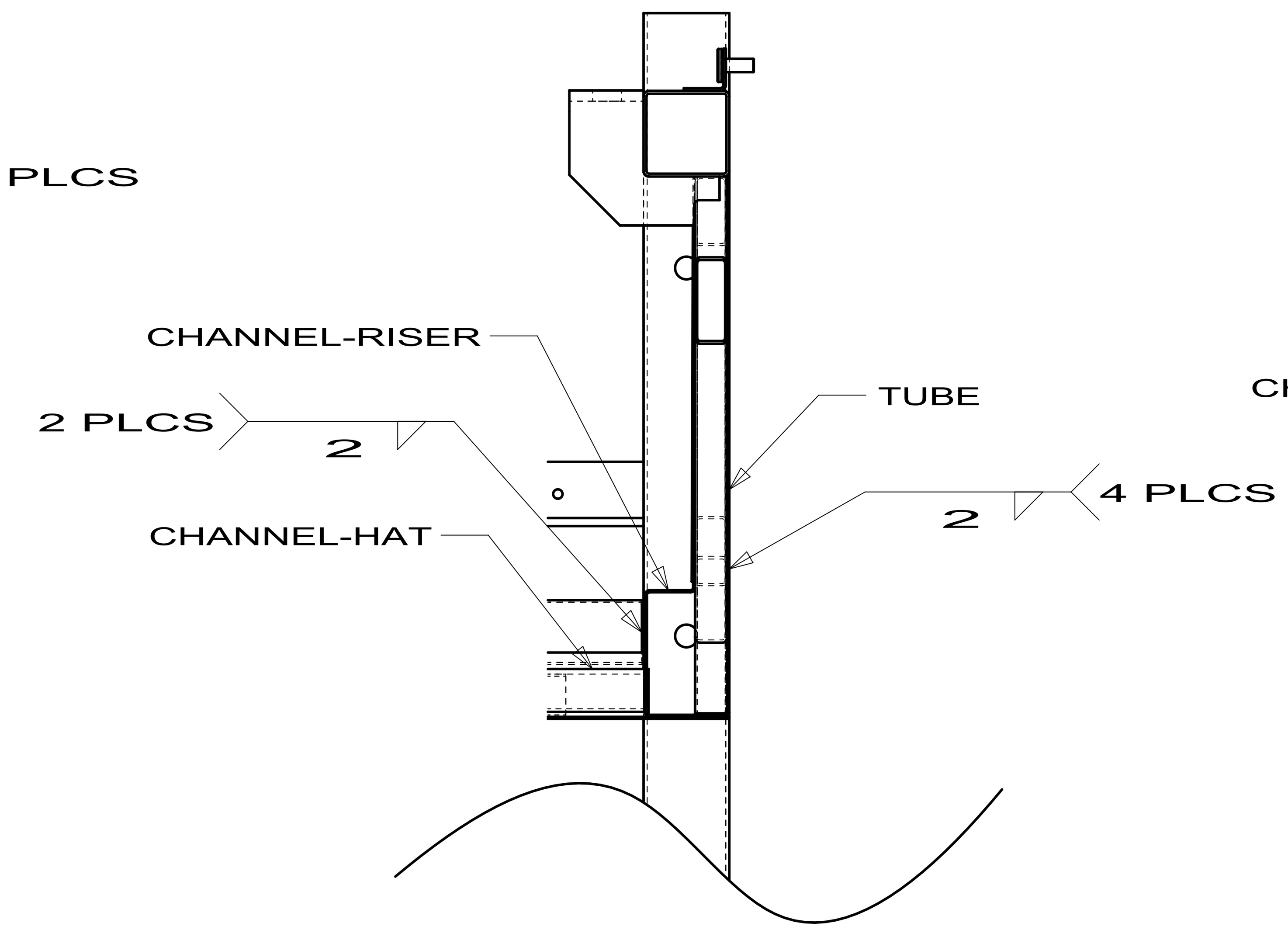
FIRST USED	09 J,K FORD
	DO NOT SCALE DRAWING
TITLE:	FRONT END ASM
SHEET 3	PART NO 164505 REV

2/23/2010

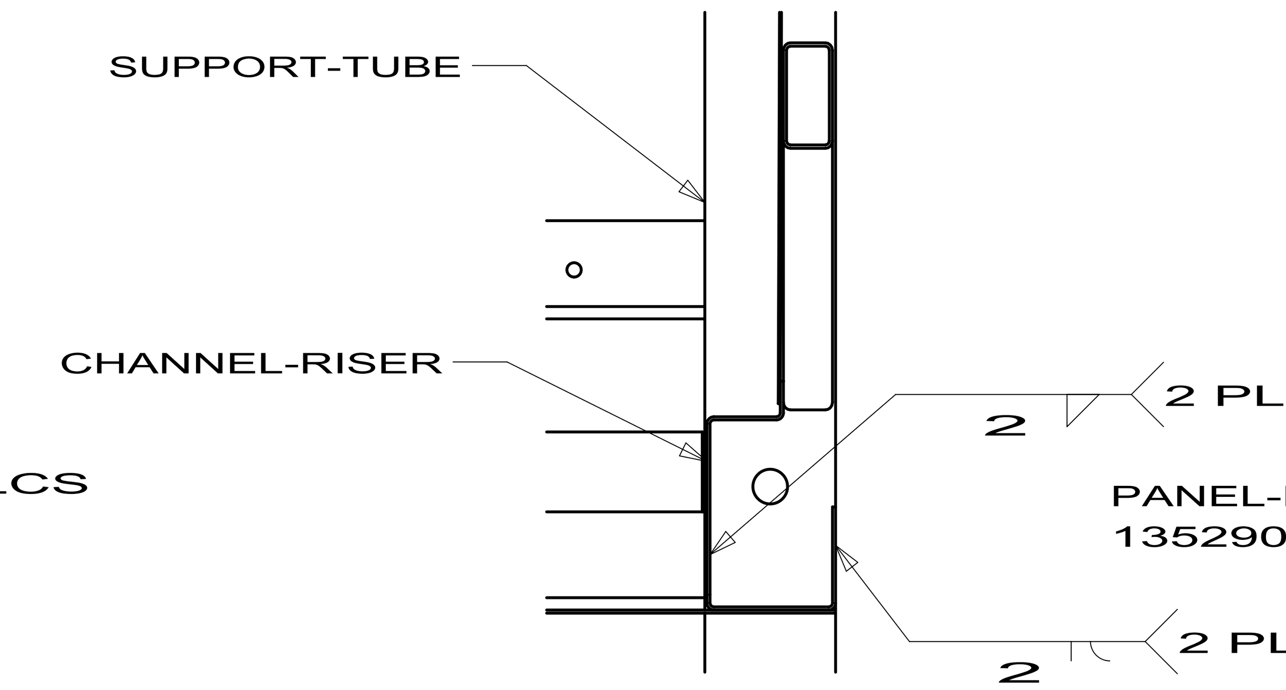
DWG NO 164505



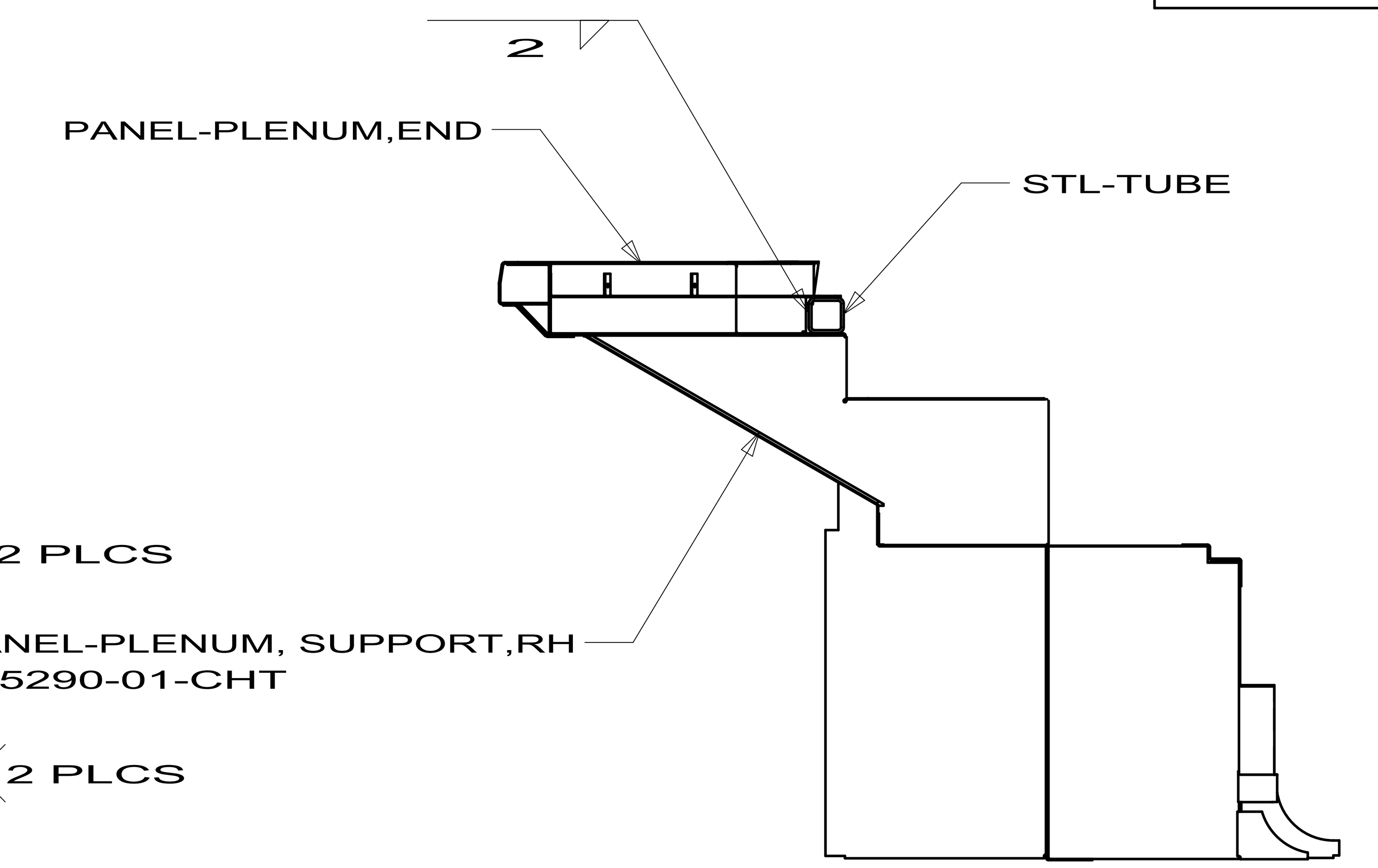
SECTION DA-DA



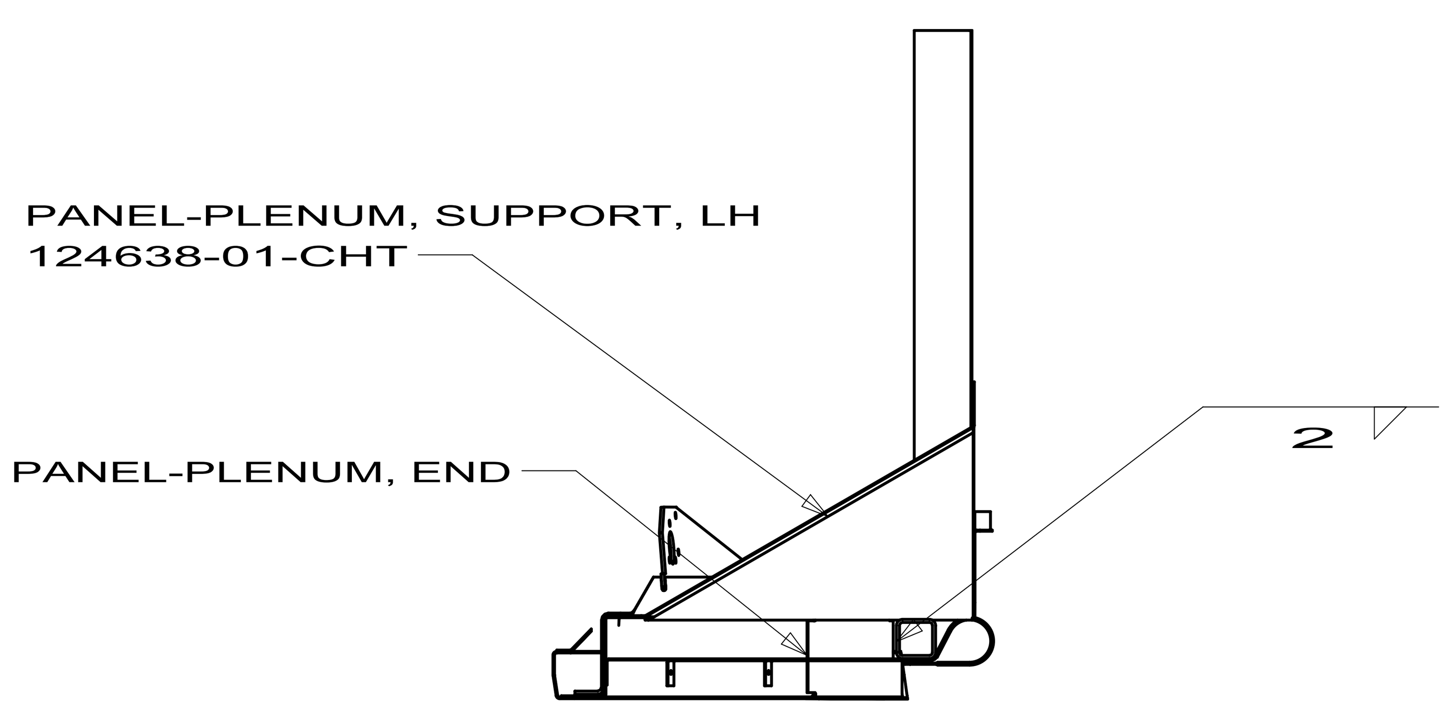
SECTION DB-DB



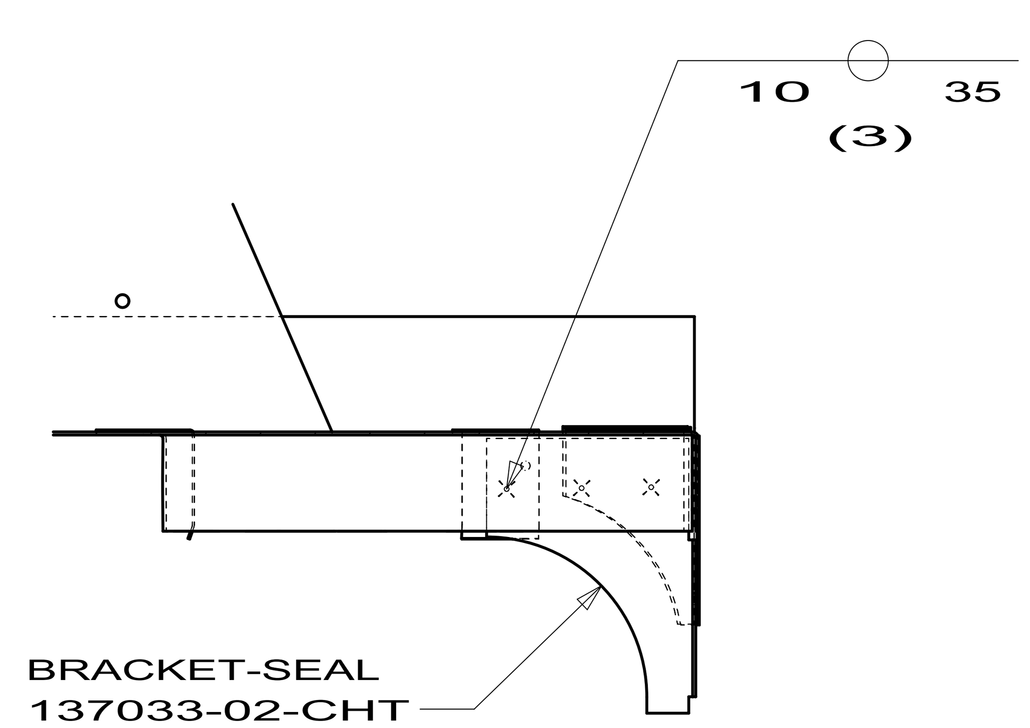
SECTION DC-DC



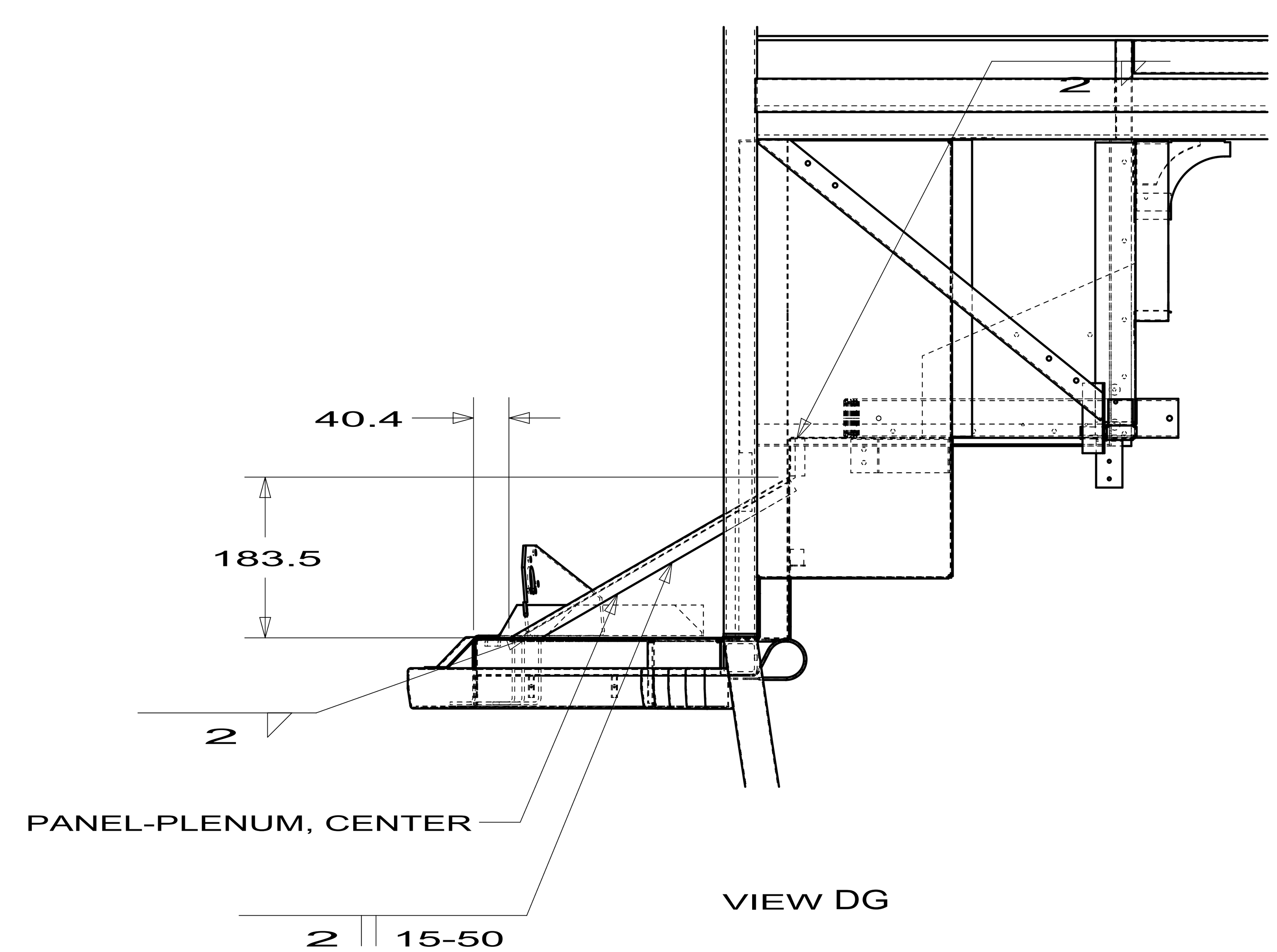
SECTION DD-DD



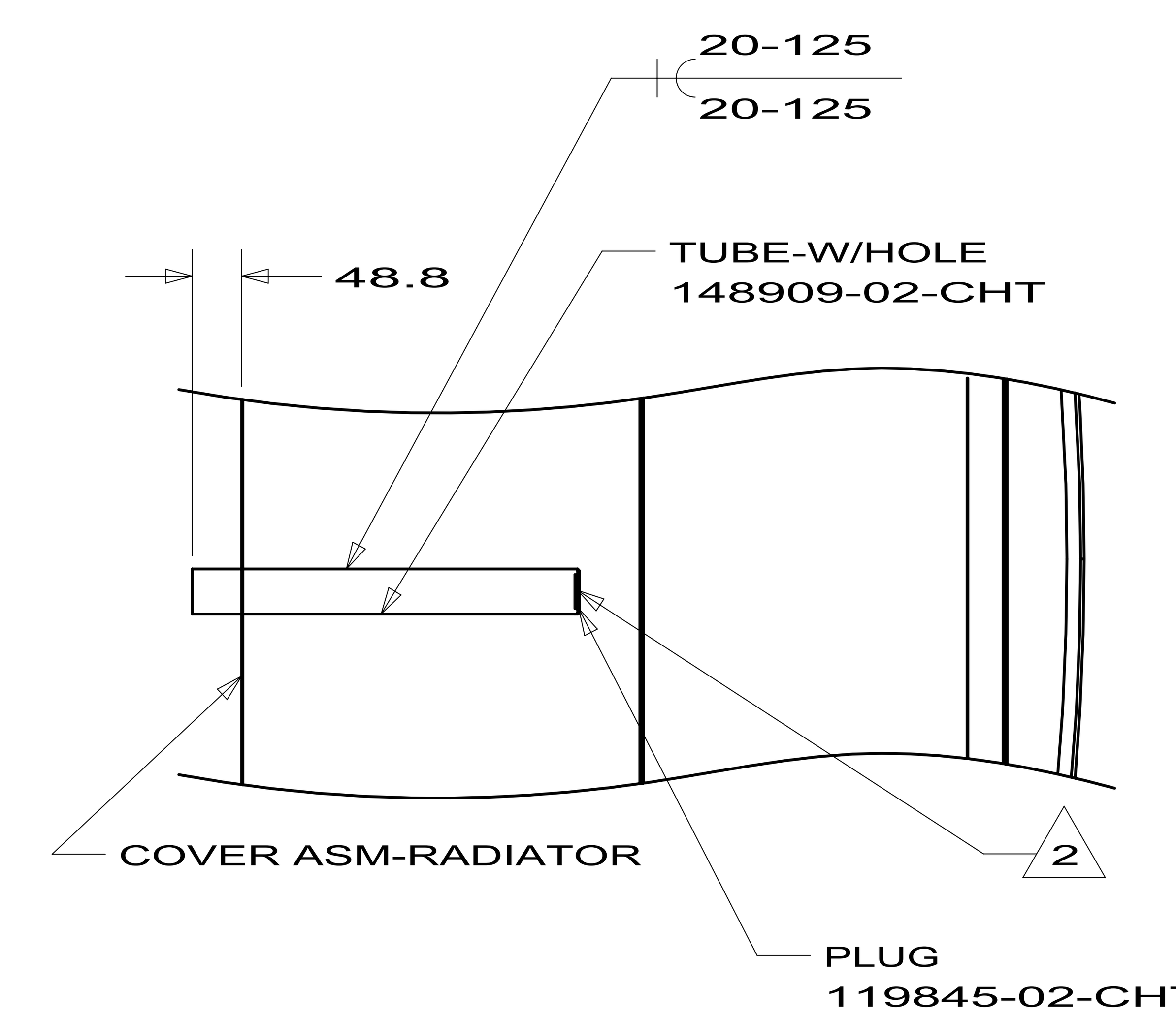
SECTION DE-DE



SECTION DF-DF



VIEW DG



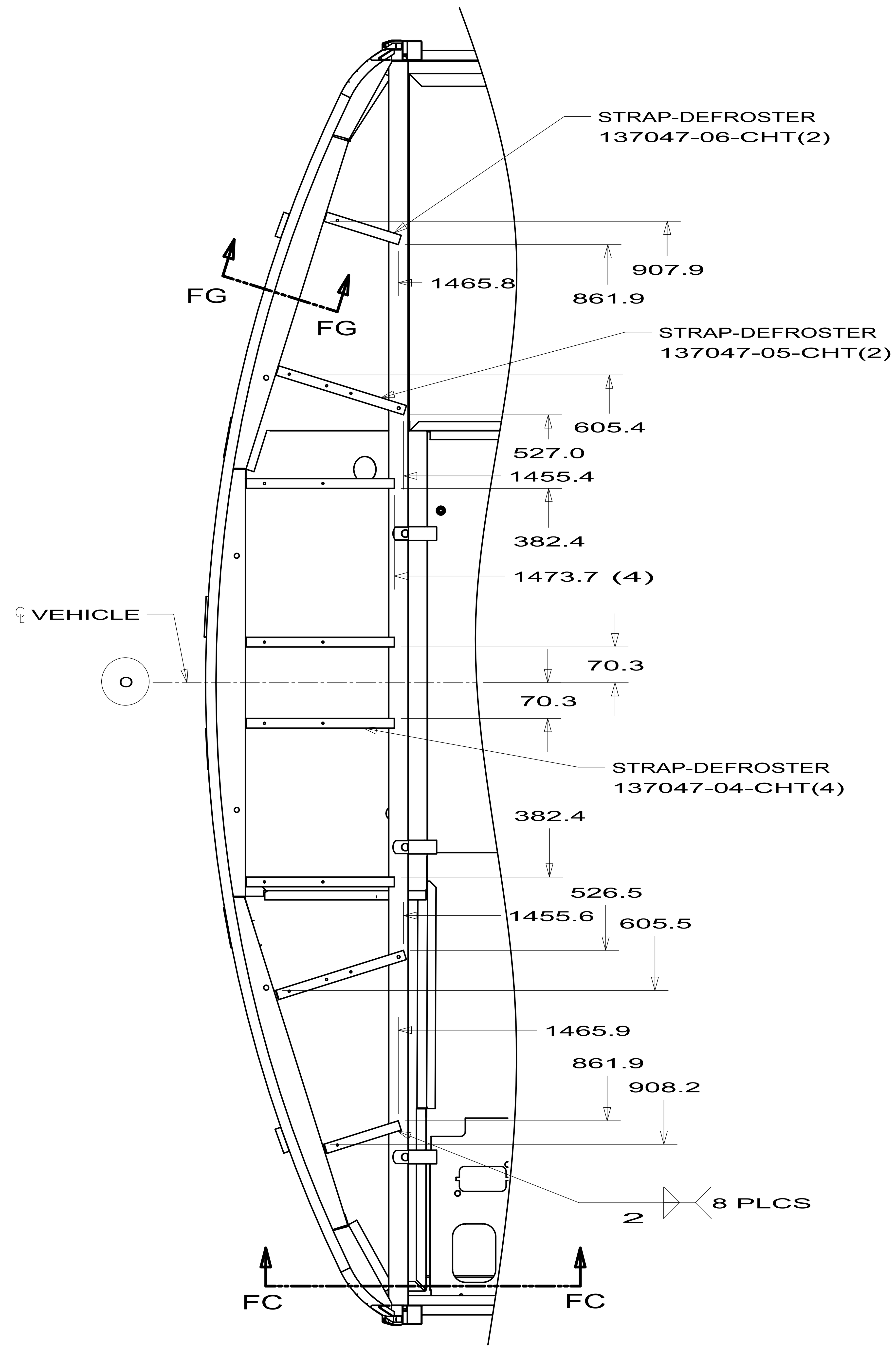
SECTION DH-DH

FIRST USED	09 J,K FORD
	DO NOT SCALE DRAWING
TITLE:	FRONT END ASM
SHEET 4	PART NO 164505 REV

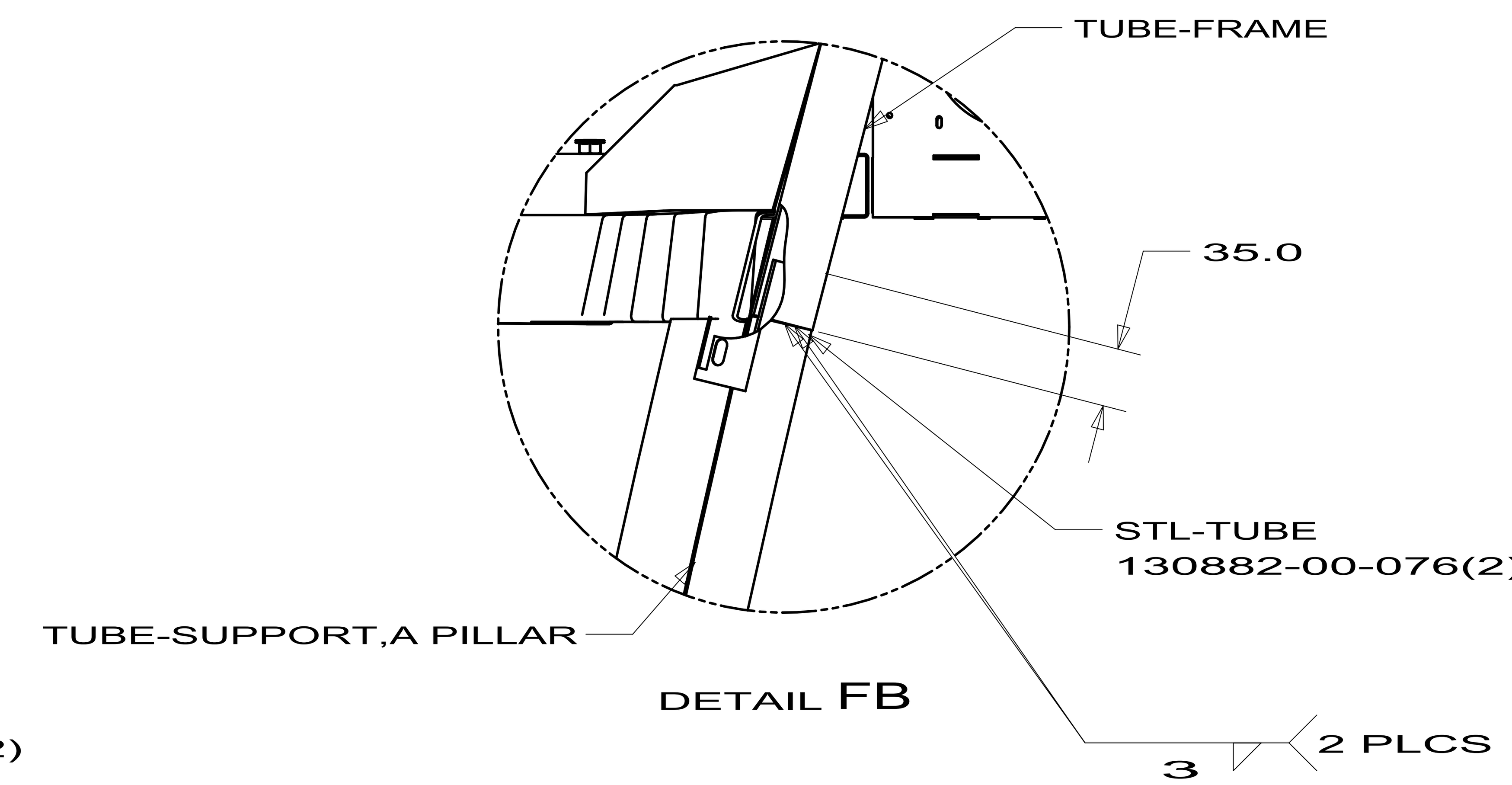
2/23/2010

DWG NO 164505
SUPPORT ASM-FRT,TV
(SEE TAB)
7
BOLT
000C26-06-40B (8)
NUT
000D39-06-00B (8)
1206.8
(2)
EC
162.2 (2)
(TOP OF TUBE-B TO TOP OF PLATE ASM)
444.8
(2)
DETAIL FB
EB
2 PLCS
3
A
(FROM TOP OF TUBE-B
DOWN TO TOP OF
TUBE-TOP)
BOTH ENDS
2 PLCS
1632.5
TUBE-FRAME, SIDE/TOP
117344-05-CHT(RH)
(SEE TAB) (LH)
PLATE ASM-SUPPORT
2
150653-03-CHT (RH)
(SEE TAB) (LH)
FF
BRACKET-WINDSHIELD
148935-01-CHT(6)
FRAME-WINDSHIELD
121269-05-CHT(RH)
121269-06-CHT(LH)
1040.3
TUBE-SUPPORT, A PILLAR
117273-05-CHT(2)
1168.3
1983.0
(2)
FA
683.3
GA
ANGLE DASH
126015-02-CHT
COVER ASM-RADIATOR
136803-03-CHT
1014.6
697.7
398.1
390.7
ANGLE-DASH
126014-03-CHT
TOOLING
HOLE
STL-TUBE
130894-00-945(2)
2.0 -A-
47.9
TO TOP
OF ANGLE
DATUM
323.0
REF
367.7
TOP OF
CHASSIS RAIL
DATUM
℄ FRONT AXLE
671.6
REF
2 PLCS
STL-ANGLE
130919-00-250
DETAIL GA
1240.4
SHIELD-SPLASH,RH
118592-01-CHT
1446.5 ±3 (3)
VIEW EA
-A-
SECTION EB-EB
FRAME-TUBE
PLATE ASM
TUBE-B
10.0 (RH)
B(LH)
TUBE-FRAME
SIDE/TOP
VIEW EC
FIRST USED
09 J,K FORD
DO NOT SCALE DRAWING
TITLE:
FRONT END ASM
SHEET 5
PART NO 164505
REV
2/23/2010

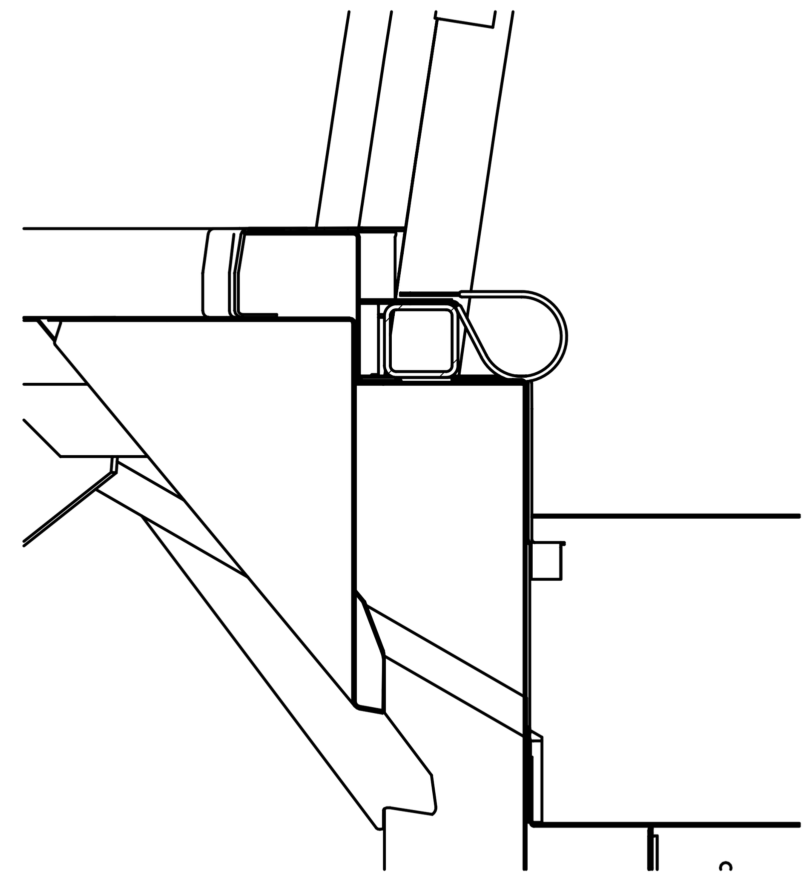
DWG NO 164505



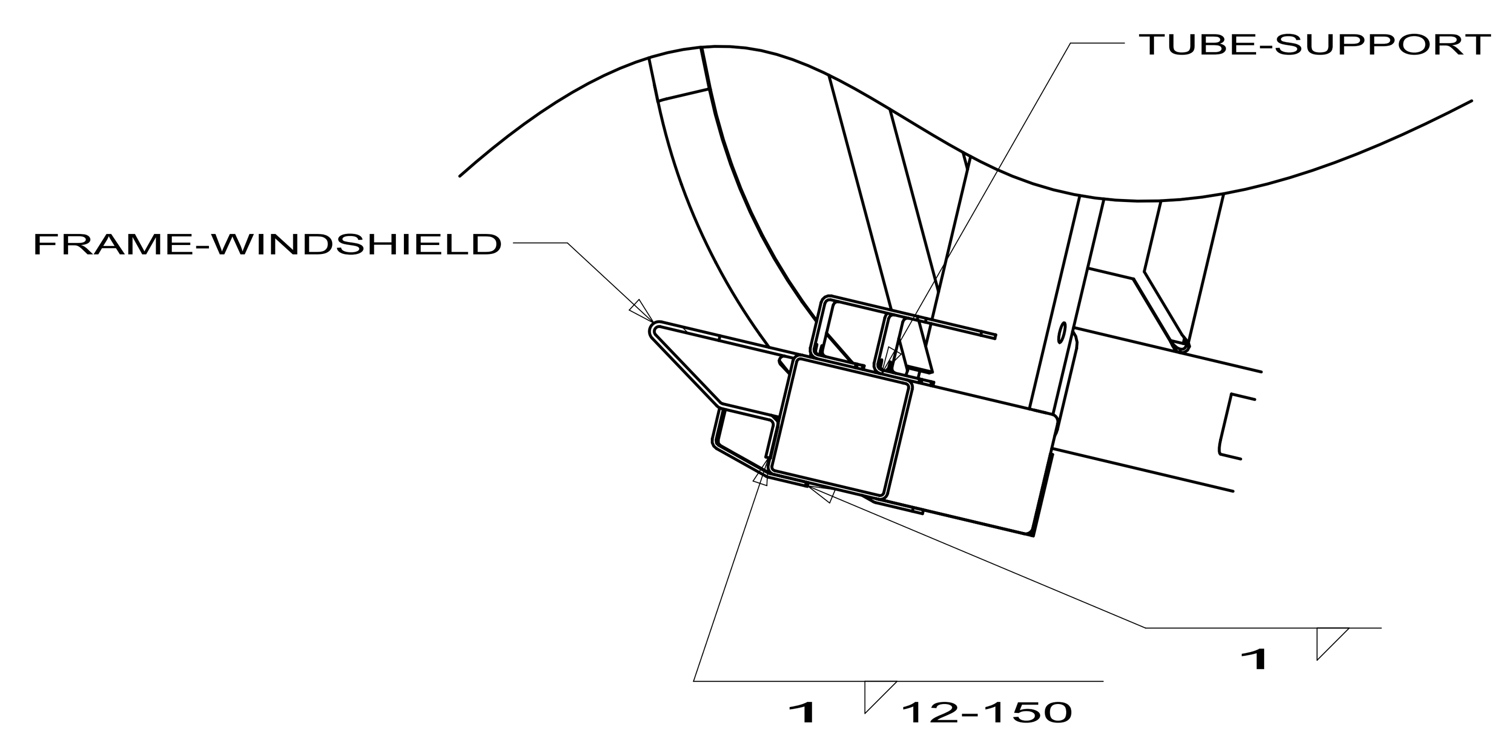
SECTION FA-FA



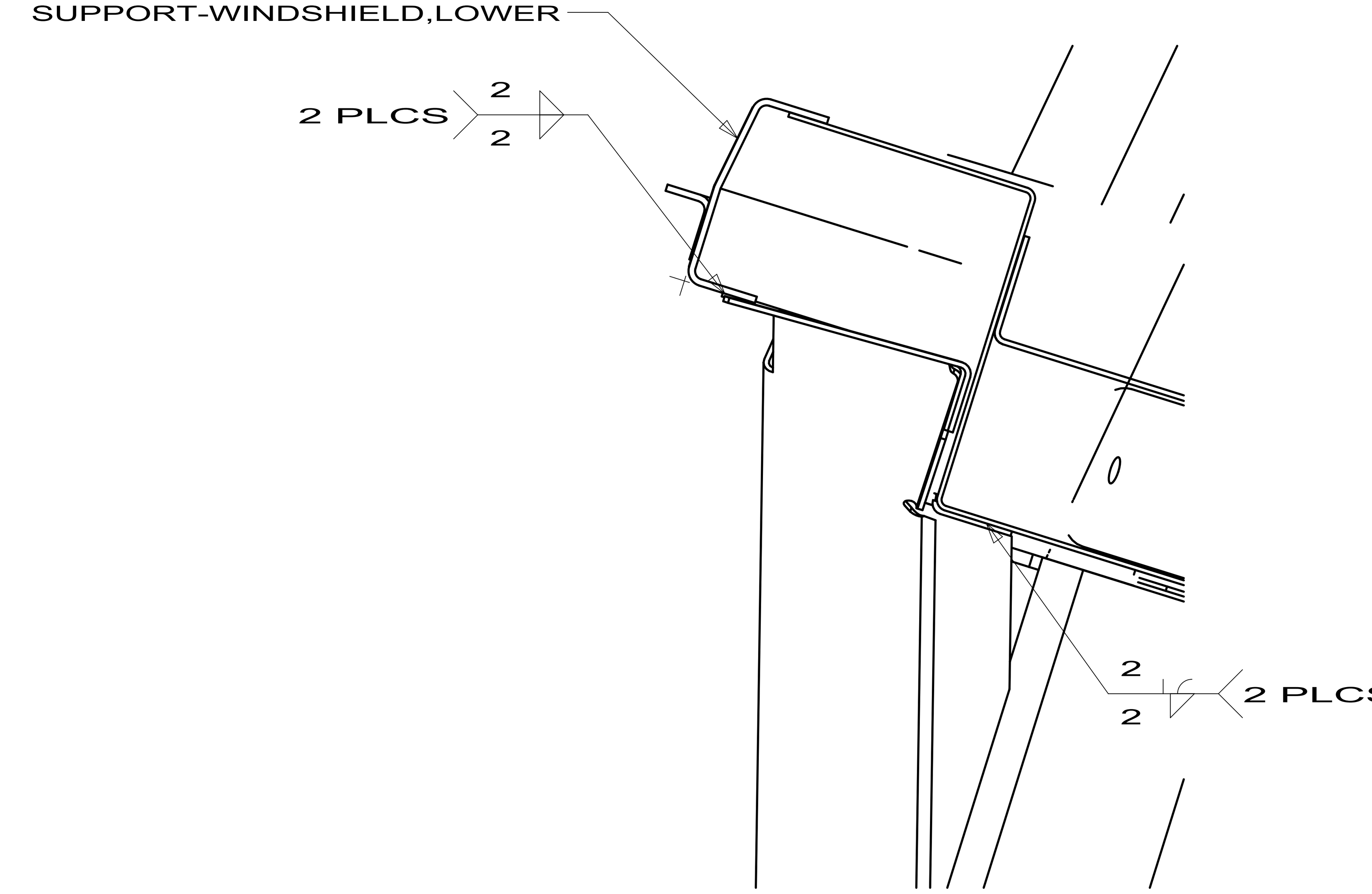
DETAIL FB



SECTION FC-FC



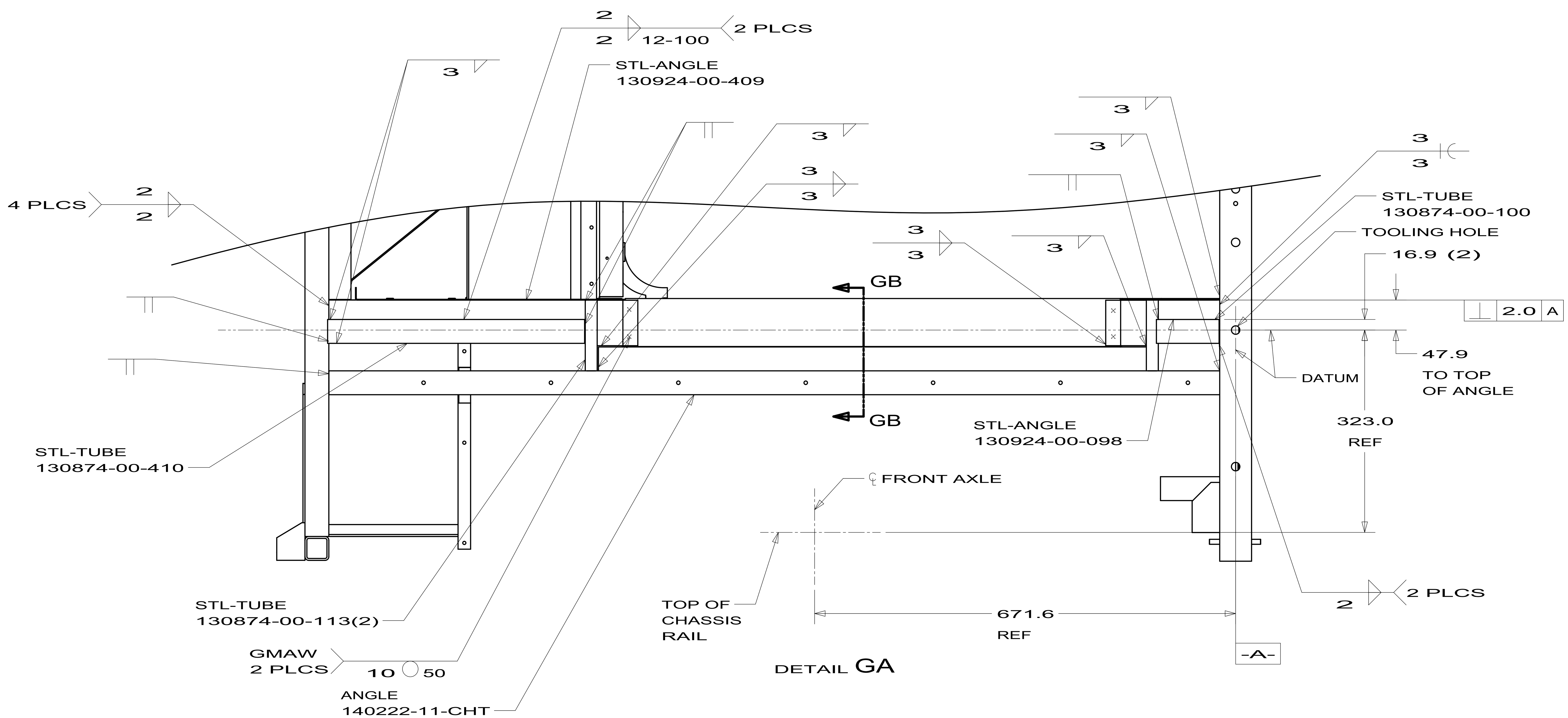
SECTION FF-FF



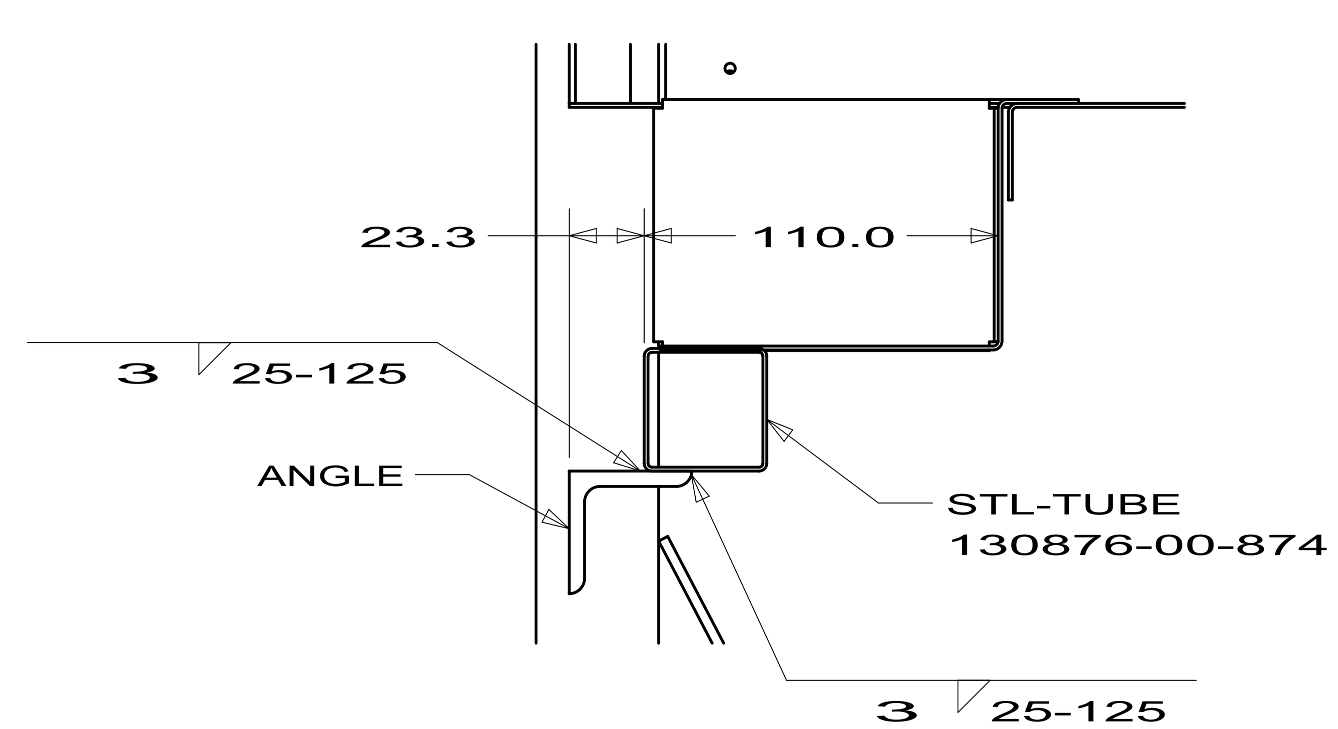
SECTION FG-FG

FIRST USED	09 J,K FORD
	DO NOT SCALE DRAWING
TITLE:	FRONT END ASM
SHEET 6	PART NO 164505 REV

2/23/2010



DETAIL GA



SECTION GB-GB

FIRST USED	09 J,K FORD
	DO NOT SCALE DRAWING
TITLE:	FRONT END ASM
SHEET 7	PART NO 164505 REV

2/23/2010

FIRST USED
09 J,K FORD

DO NOT SCALE DRAWING

TITLE:
FRONT END ASM

SHEET 8 | PART NO 164505 | REV

2/23/2010

DWG NO 164505

FIRST USED

09 J,K FORD

DO NOT SCALE DRAWING

TITLE:

FRONT END ASM

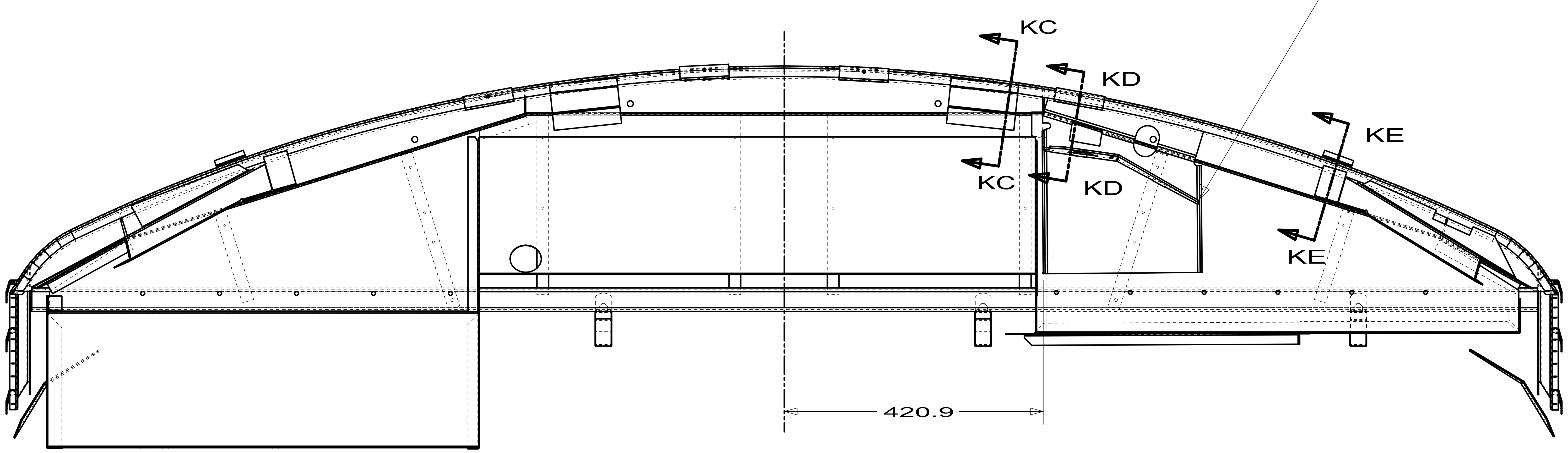
SHEET 9

PART NO 164505

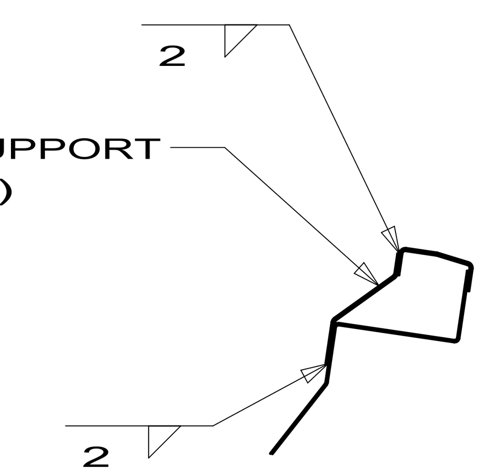
REV

2/23/2010

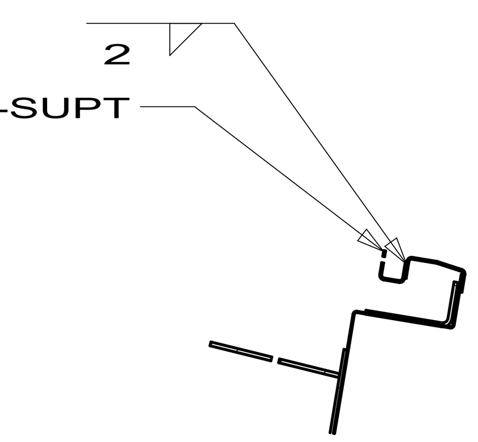
DWG NO 164505



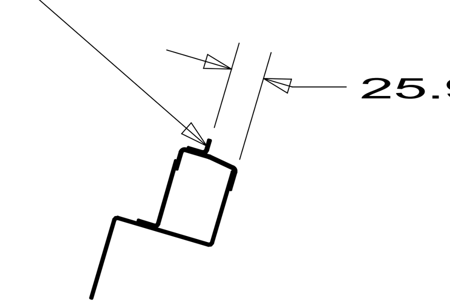
SECTION KA-KA



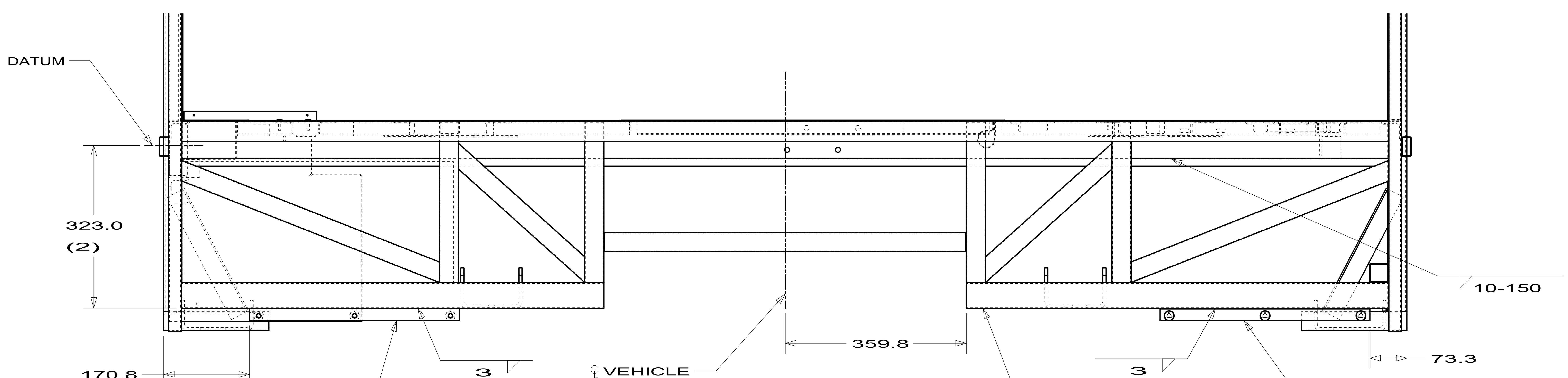
SECTION KC-KC
(2 PLCS)



SECTION KD-KD
(4 PLCS)



SECTION KE-KE
(2 PLCS)

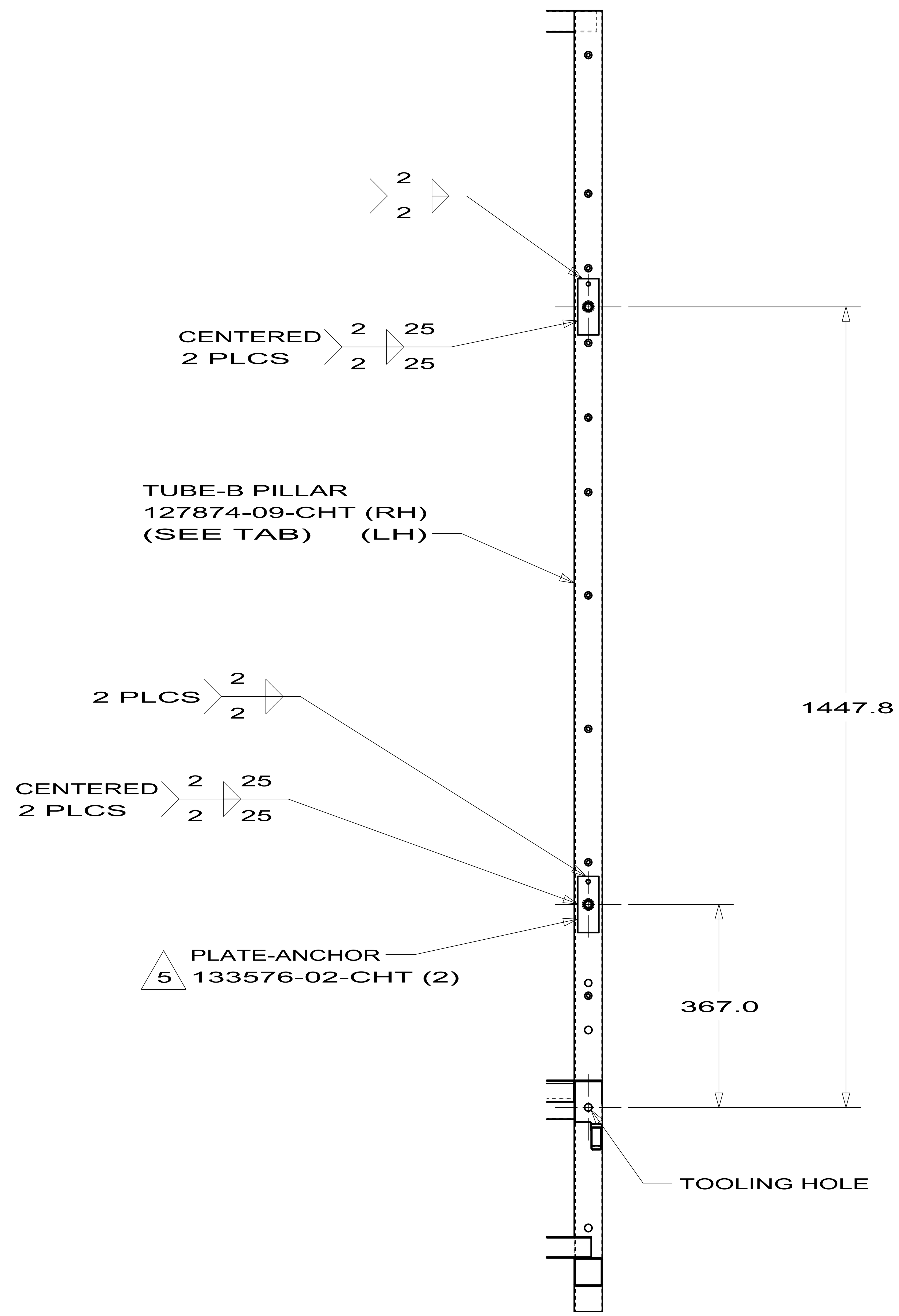


VIEW KB

FIRST USED	09 J,K FORD
DO NOT SCALE DRAWING	
TITLE:	FRONT END ASM
SHEET 10	PART NO 164505 REV

2/23/2010

DWG NO 164505

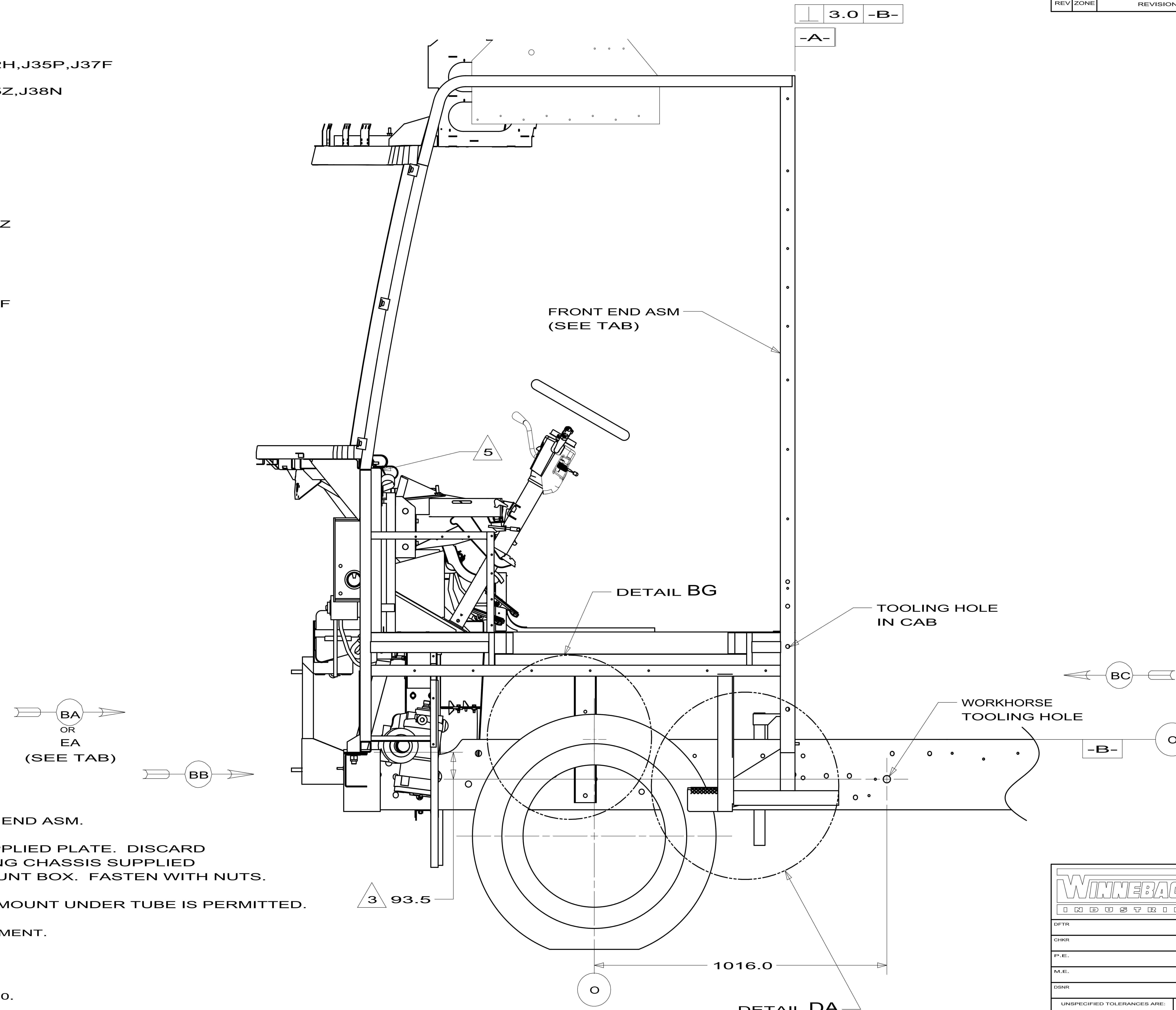


SECTION LA-LA
SHOWN
SECTION LB-LB
OPPOSITE

FIRST USED	09 J,K FORD
DO NOT SCALE DRAWING	
TITLE:	FRONT END ASM
SHEET 11	PART NO 164505 REV

2/23/2010

DWG NO	FRONT END ASM	DETAIL	VIEW		
164623-01	164624-01-CHT	DB	BA	NOT USED	
164623-02	164624-02-CHT	DC	BA	NOT USED	
164623-03	164624-03-CHT	DC	BA	W/O TV	J32H,J35P,J37F
164623-04	164624-04-CHT	DC	BA	W/O TV	J35Z,J38N
164623-05	164624-01-CHT	DB	EA	NOT USED	
164623-06	164624-02-CHT	DC	EA	NOT USED	
164623-07	164624-03-CHT	DC	EA	W/O TV	
164623-08	164624-04-CHT	DC	EA	NOT USED	
164623-09	164624-05-CHT	DC	BA	W/TV	J35Z
164623-10	164624-05-CHT	DC	EA	NOT USED	
164623-11	164624-06-CHT	DC	BA	NOT USED	
164623-12	164624-07-CHT	DC	BA	W/TV	J37F



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

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

9. REMOVE FUSE BOX, RUBBER SEAL AND CHASSIS SUPPLIED PLATE. DISCARD CHASSIS SUPPLIED PLATE, INSTALL NEW PLATE USING CHASSIS SUPPLIED BOLTS, INSTALL RUBBER SEAL ONTO STUDS AND MOUNT BOX. FASTEN WITH NUTS.

8. WHEN REAR WELD IS INACCESSIBLE, WELDING BODY MOUNT UNDER TUBE IS PERMITTED.

7. UNBOLT AND WELD AS NEEDED AFTER PLATFORM ADJUSTMENT.

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

5. FOR BRAKE INSTL-EMERGENCY SEE DWG NO 108080-01-000.

4. REMOVE RESERVOIR BRACKET (4 SCREWS) AND WELD TO WINNEBAGO BRACKET.

3. ADJUST HEIGHT OF SUPPORT TO LOCATE CAB PROPERLY.

2. SEAL ALL JOINTS BETWEEN PANELS AND CAB.

1. REMOVE ALL BURRS AND SHARP EDGES.

NOTES:

SEE CHART

FOR COLOR VARIATIONS OF THIS PART

RELEASE | REV A | DATE | DWG NO 164623

REV | ZONE | REVISION RECORD | DATE | DFTR-ORIG

WINNEBAGO INDUSTRIES

DFTR | ORIG. DATE

CHKR

P.E. | ALL DIMENSIONS ARE IN MILLIMETERS

M.E. | FIRST USED

DSNR | 09 J,K 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

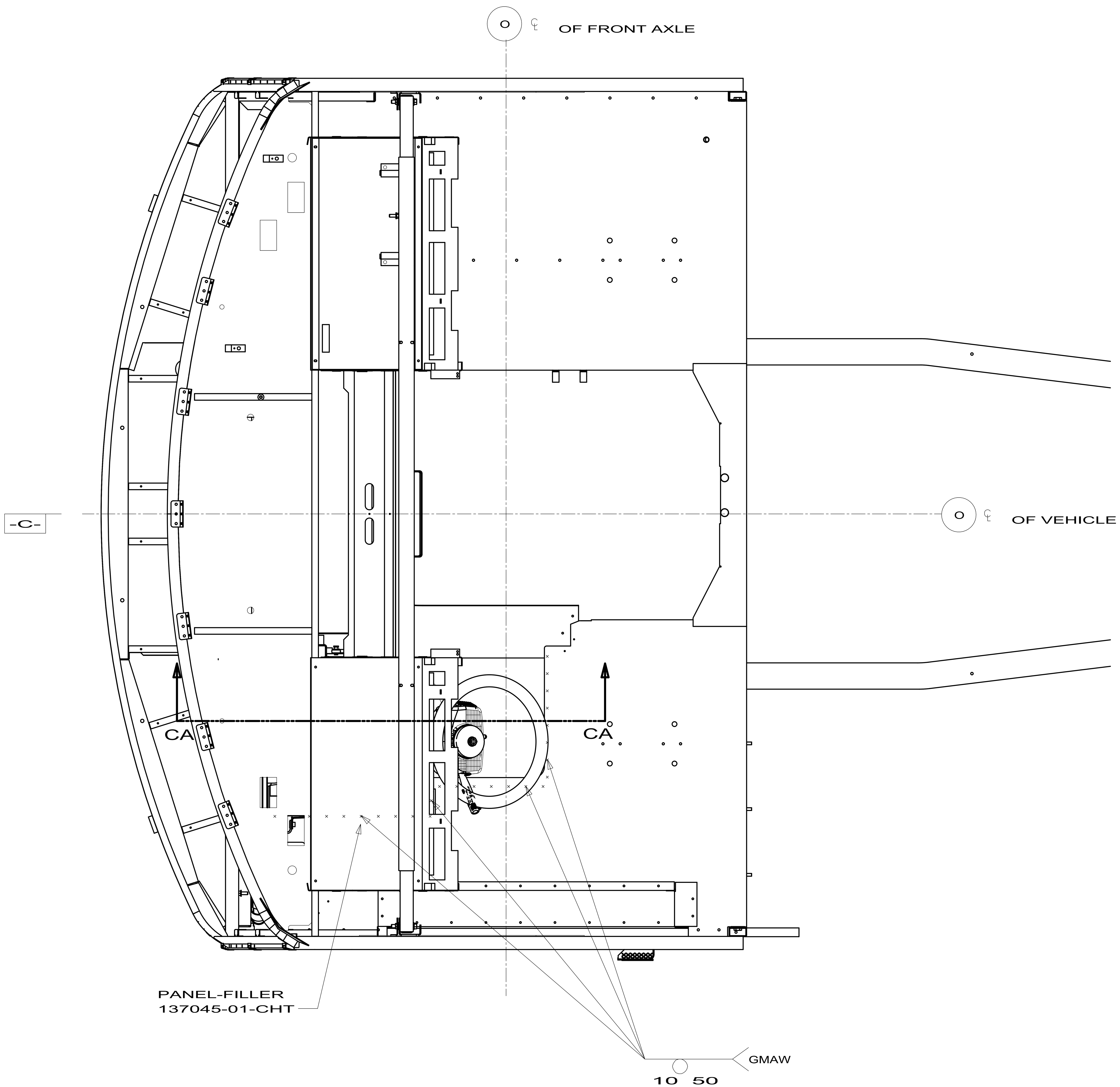
TITLE: FRONT END/CHASSIS ASM

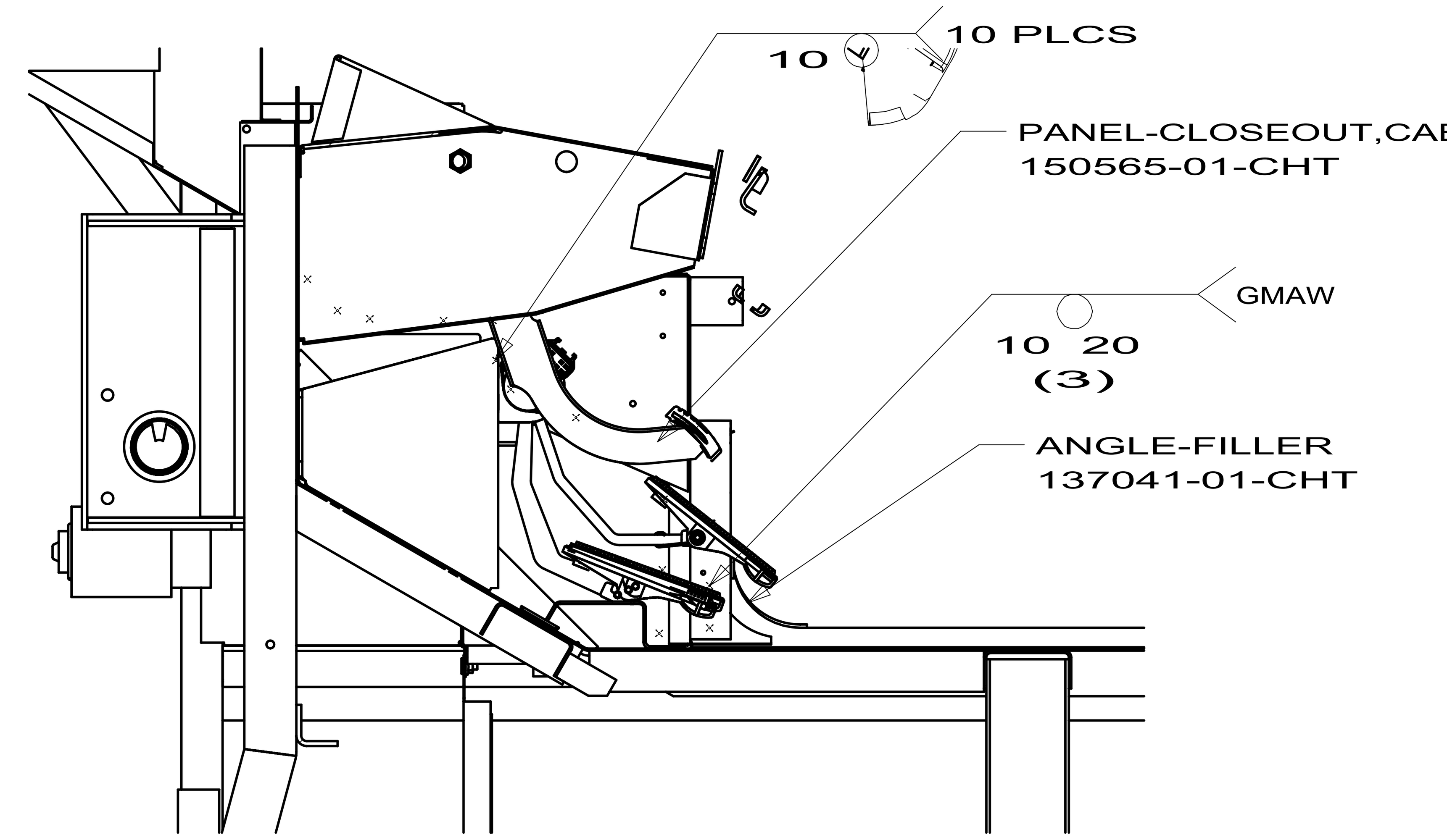
SHEET 1 OF 5 | PART NO 164623 | REV

REF:


DWG NO 164623
BAFFLE
(CHASSIS SUPPLIED)
SCREW
G39-10-12T (6)
BULKHEAD
ANGLE-FILLER
139131-01-CHT
ANGLE-FILLER
137037-01-CHT
GROMMET
071015-18-000
SHIELD ASM
121962-02-CHT
NUT
D39-04-00B (2)
STRAP
139119-01-CHT
ANGLE-FILLER
137037-02-CHT
TOP
OF
CHASSIS
RAIL
BE
BRKT-RESERVOIR
(CHASSIS SUPPLIED)
4
105.7
105.7
595.2
595.2
SUPPORT ASM-FRONT
134807-11-CHT
℄
OF VEHICLE
SUPPORT ASM-FRONT
134807-12-CHT
6
VIEW BA
6
EC
3
3
WELD TO
FRAME RAILS
8
EC
VIEW BC
3
3
19-75
19-75
7
DETAIL BG
STL-STRAP
130952-00-215(2)
BD
BD
BOTH SIDES
5
CHANNEL-SUPPORT,FRONTEND
165261-01-CHT(RH)
165261-02-CHT(LH)
3
BOLT
C26-04-14U(2)
1.5
1.5
143.7
BOTH
SIDES
5
49.8
5
BOTH SIDES
VIEW BB
VIEW BF
11
BOLT
C12-10-32U (4)
WASHER-LOCK
E11-10-00U (4)
WASHER-FLAT
E13-26-00U (4)
NUT
D29-10-00B (4)
BE
BE
SHIM-SUPPORT,FRONT END
165262-01-CHT (2)
10
WASHER-FLAT
REF
BOLT REF
NUT REF
WASHER-LOCK
REF
BOTH SIDES
5
5
BOTH SIDES
SECTION BD-BD
SECTION BE-BE
FIRST USED
09 J,K WH
DO NOT SCALE DRAWING
TITLE:
FRONT END/CHASSIS ASM
SHEET 2
PART NO
164623
REV

DWG NO 164623

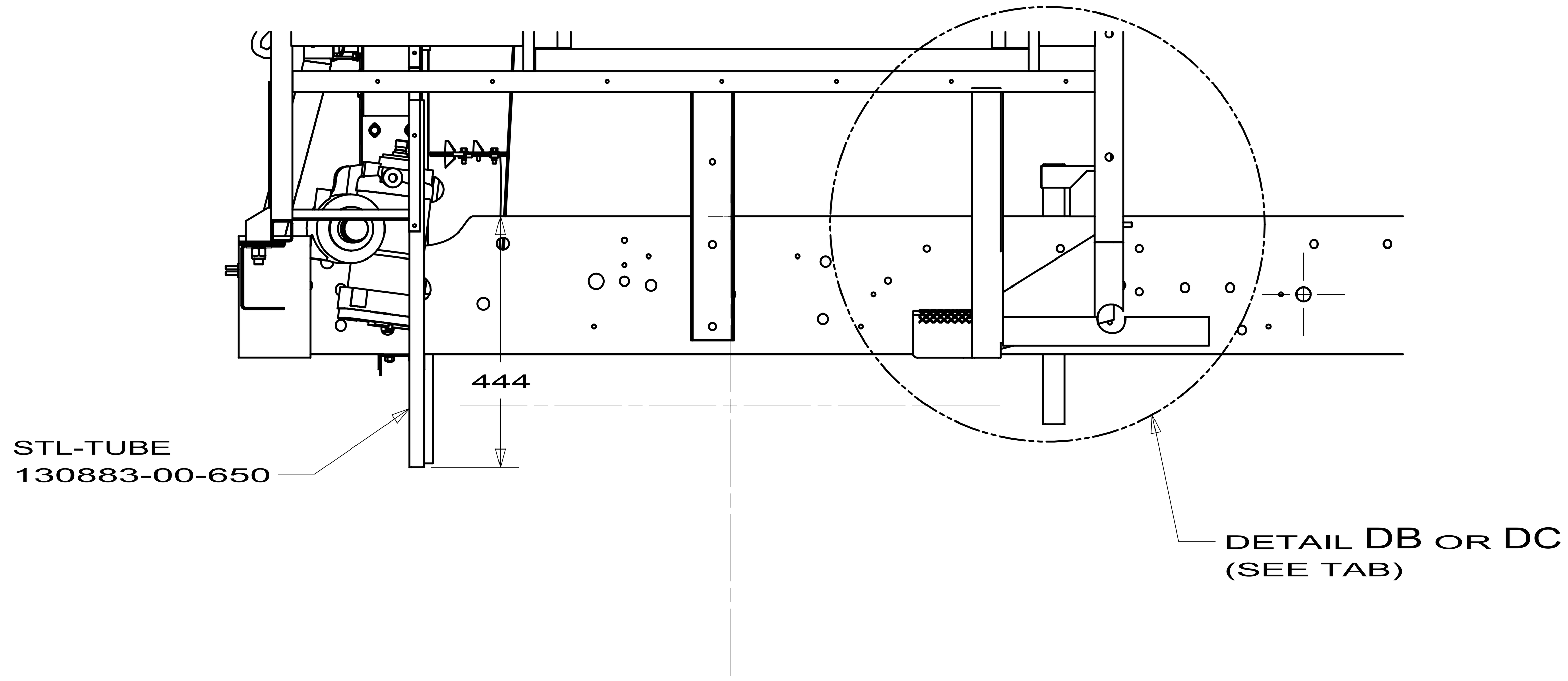




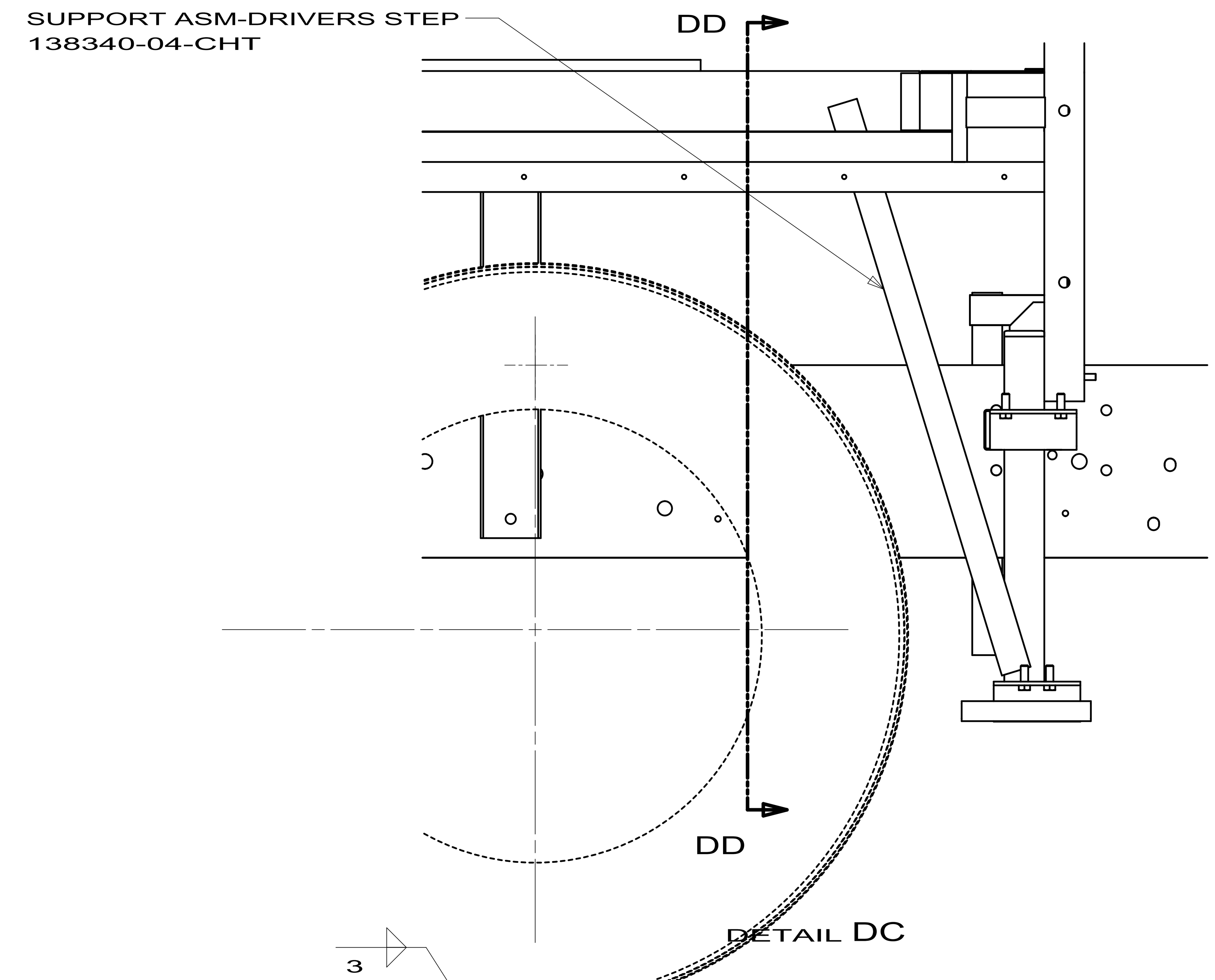
SECTION CA-CA

FIRST USED	09 J,K WH
	DO NOT SCALE DRAWING
TITLE:	FRONT END/CHASSIS ASM
SHEET 3	PART NO 164623

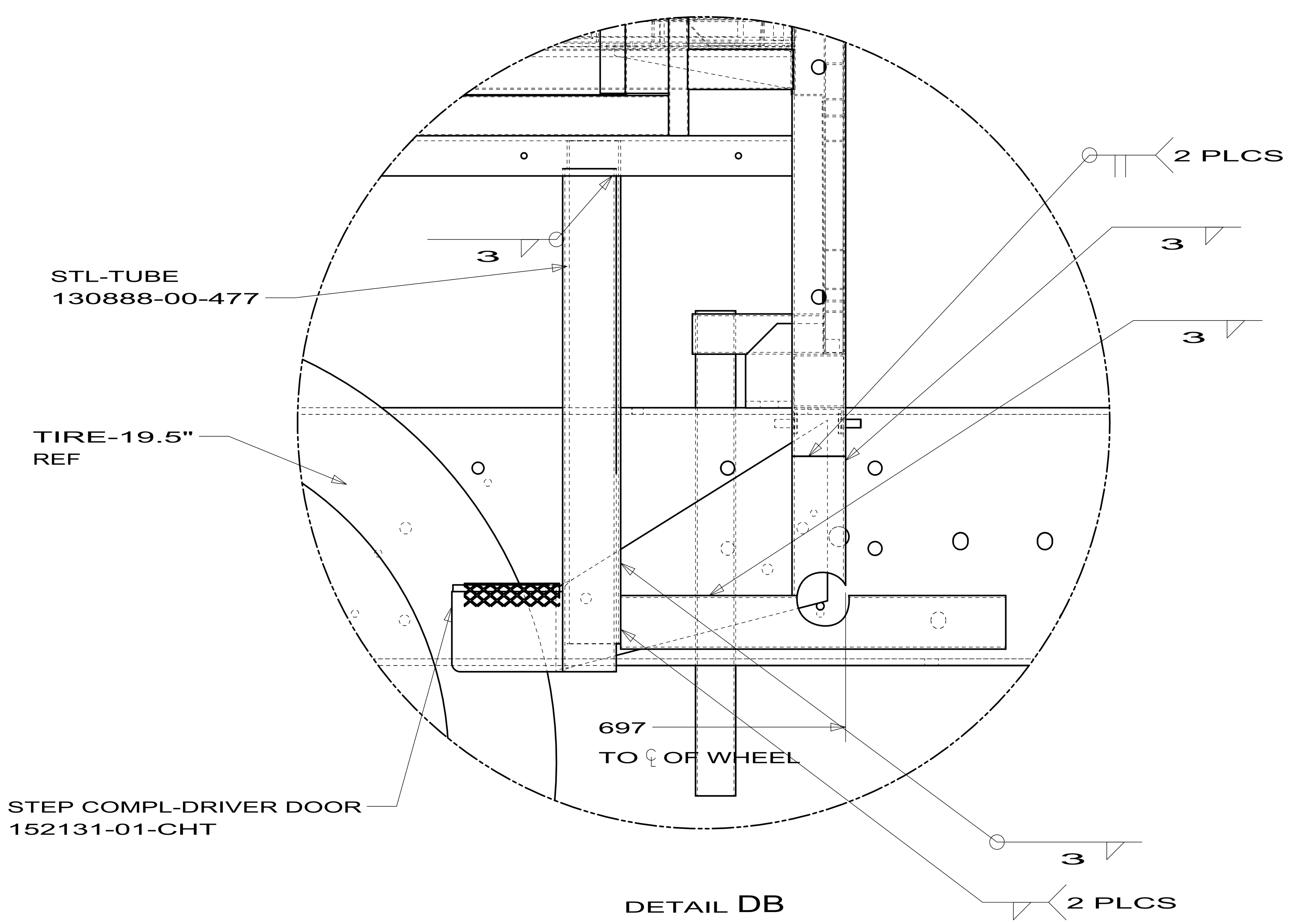
DWG NO 164623



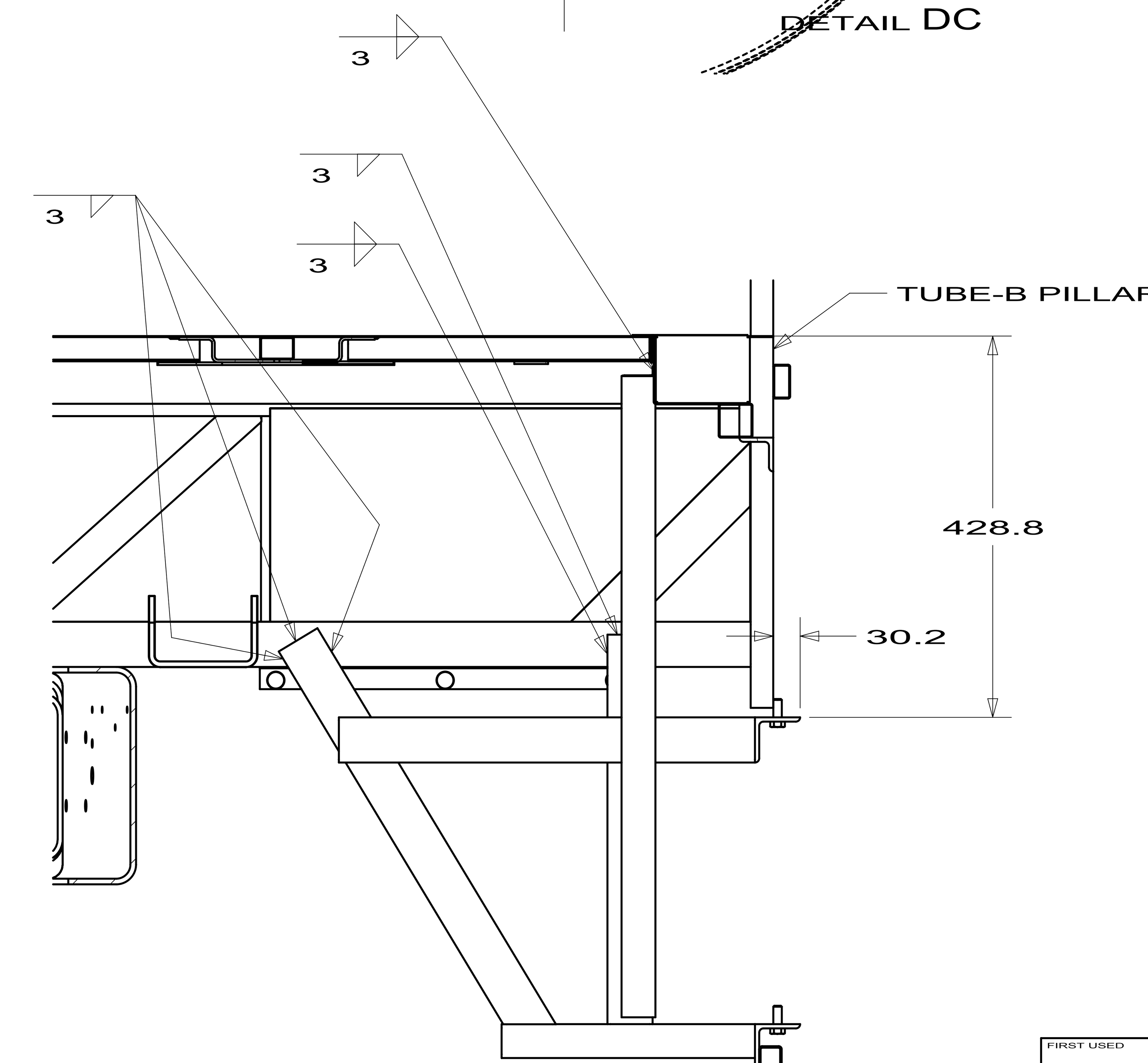
DETAIL DA



DETAIL DC



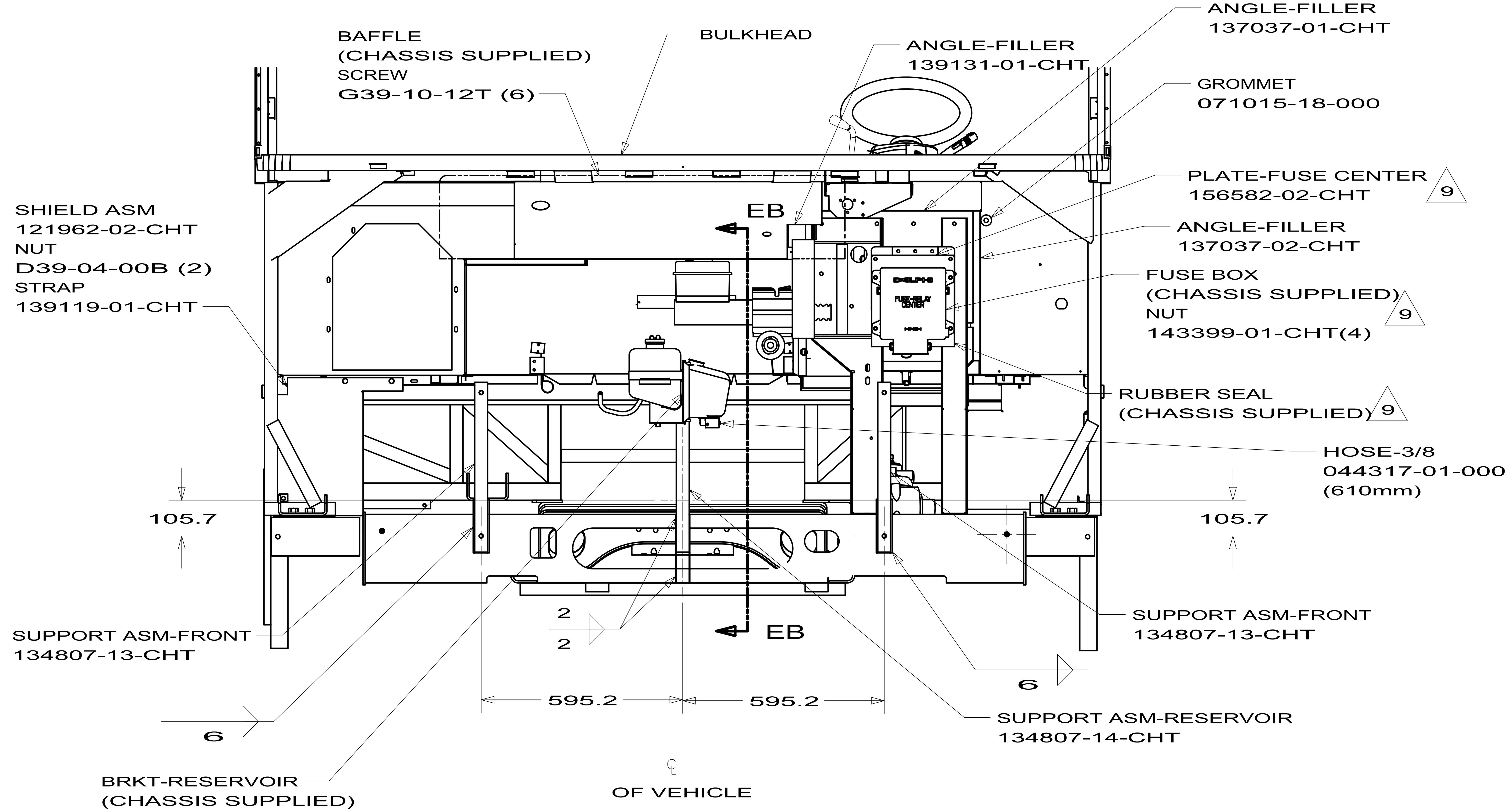
DETAIL DB



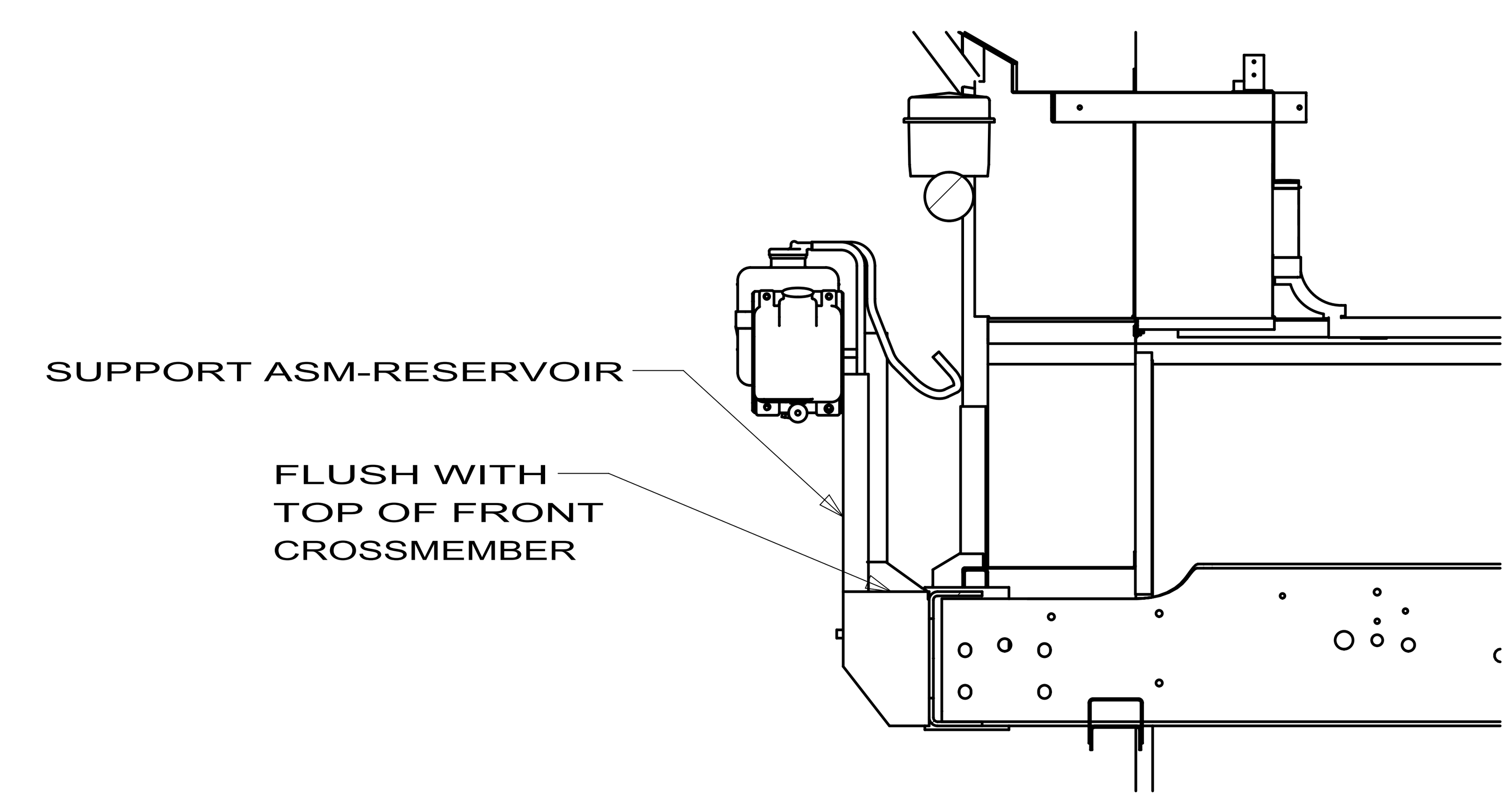
SECTION DD-DD

FIRST USED	09 J,K WH
DO NOT SCALE DRAWING	
TITLE:	FRONT END/CHASSIS ASM
SHEET 4	PART NO 164623 REV

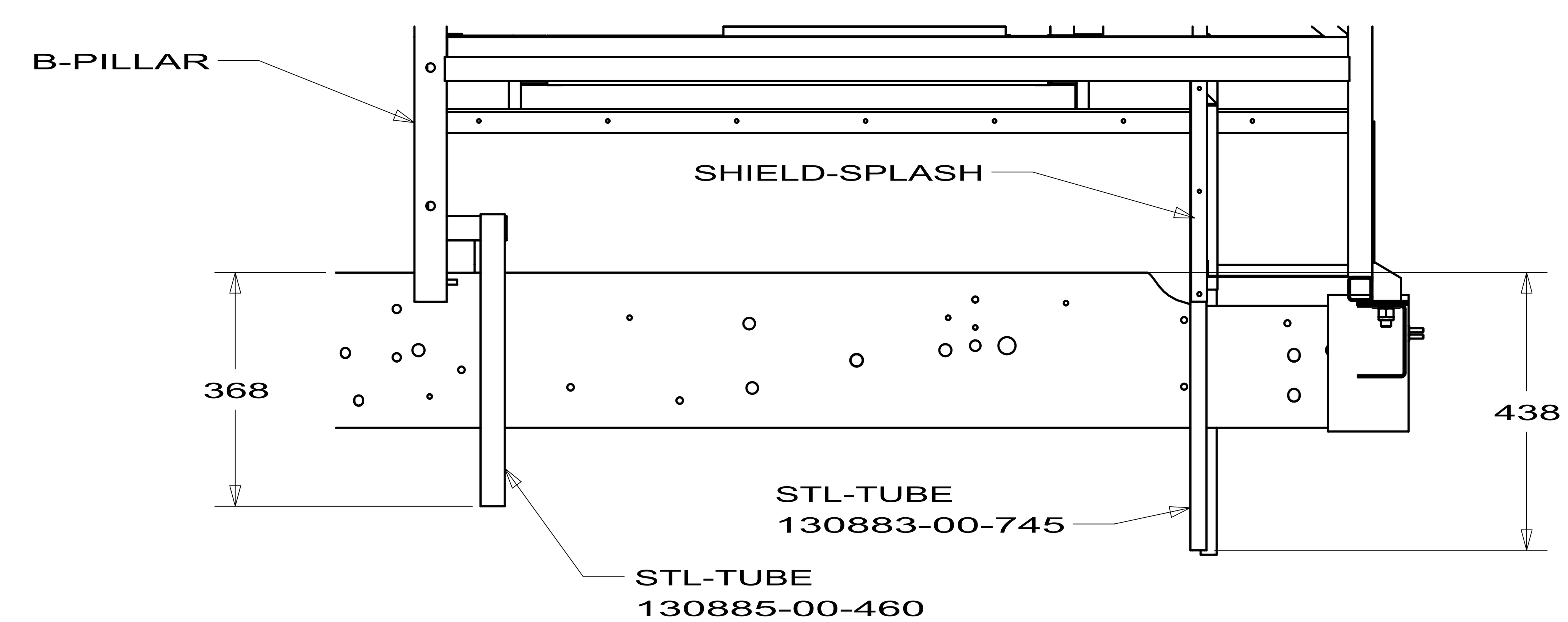
DWG NO 164623



VIEW EA



SECTION EB-EB



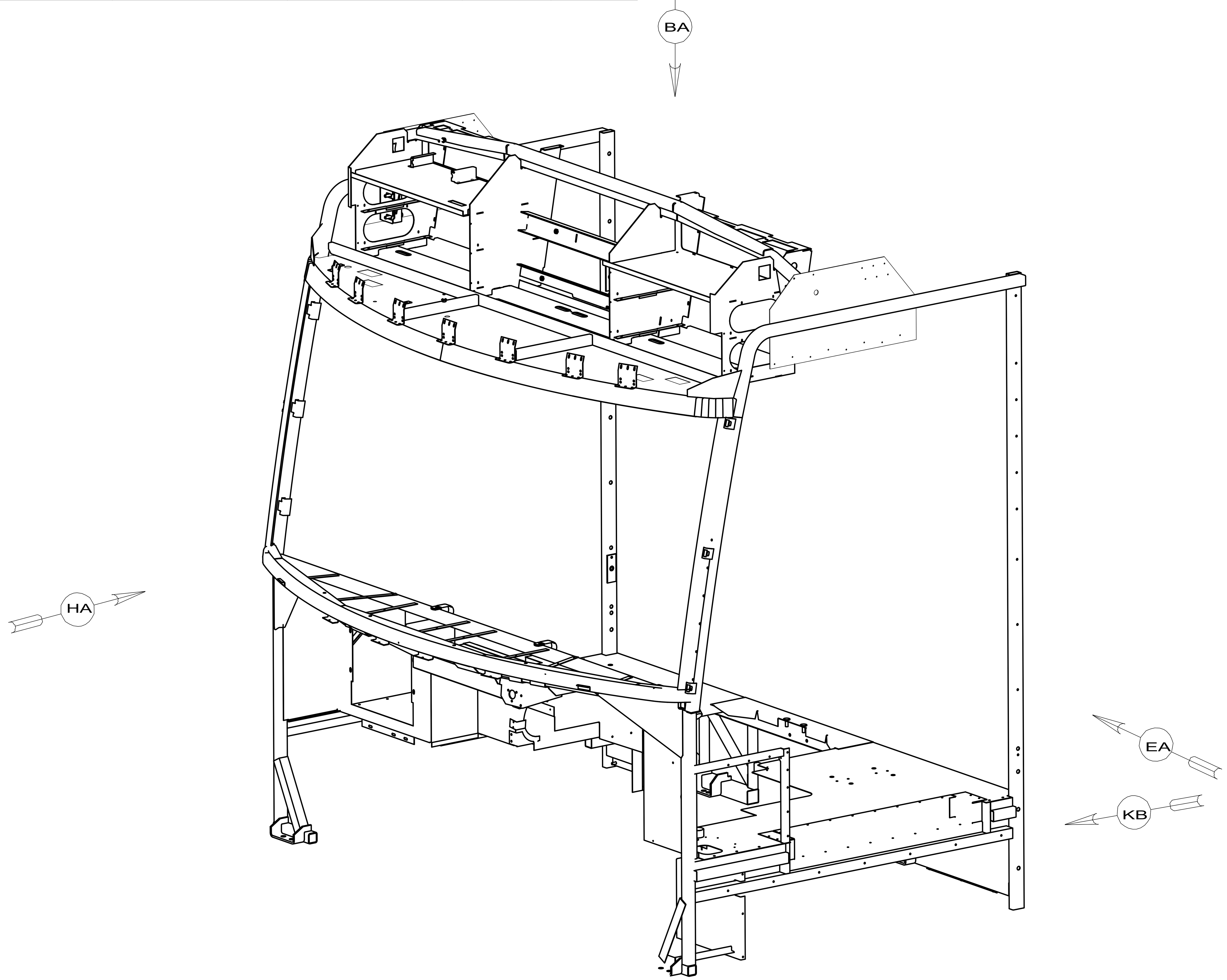
SECTION EC-EC

FIRST USED	09 J,K WH
DO NOT SCALE DRAWING	
TITLE:	FRONT END/CHASSIS ASM
SHEET 5	PART NO 164623 REV

DWG NO	LH B PILLAR	RISER ASM-CAB	SUPPORT ASM-TV	TUBE-TOP,LH	PLATE ASM-LH	A	B	
164624-01	127874-09-CHT	145125-10-CHT	151975-03-CHT	117344-05-CHT	150653-04-CHT	0.0	10.0	NOT USED
164624-02	127874-10-CHT	145125-07-CHT	151975-03-CHT	117344-05-CHT	150653-04-CHT	0.0	10.0	J35Z
164624-03	127874-10-CHT	145125-07-CHT	151975-02-CHT	117344-10-CHT	150653-07-CHT	34.0	40.0	J32H, J37F, K32H, K35P
164624-04	127874-10-CHT	145125-07-CHT	151975-02-CHT	117344-05-CHT	150653-04-CHT	0.0	10.0	J38N
164624-05	127874-10-CHT	145125-07-CHT	151975-04-CHT	117344-05-CHT	150653-04-CHT	0.0	10.0	J35Z 42K

RELEASE | REV A | DATE | DWG NO 164624

REV	ZONE	REVISION RECORD	DATE	DFTR-ORIG



NOTES:

7. TORQUE BOLT TO 34 FT-LBS.
6. SEAL WITH SEALANT II0744-C3-000 AFTER E-COAT.
5. ALIGN HOLES.
4. HOLES MUST ALIGN TO ALLOW FREE PASSAGE OF A #10 SCREW.
3. MUST BE FLUSH WITHIN ± 1.5.
2. ATTACH AFTER E-COAT.
1. CLEAN, E-COAT AND SEAL CAB WITH 143201-01-000.

SEE CHART

FOR COLOR VARIATIONS OF THIS PART

WINNEBAGO INDUSTRIES

DFTR	ORIG. DATE
CHKR	ALL DIMENSIONS ARE IN MILLIMETERS
P.E.	
M.E.	FIRST USED
DSNR	09 J,K WH

UNSPECIFIED TOLERANCES ARE:

WHOLE DIM (X)	±	3
ONE-PLACE (X.X)	±	1.5
TWO-PLACE (X.XX)	±	0.50
ANGLE	±	1°

THIRD ANGLE PROJECTION

MATERIAL:

DO NOT SCALE DRAWING

REFER TO ES0018 FOR FASTENER TIGHTENING GUIDELINES

TITLE: FRONT END ASM

SHEET 1 OF 11 | PART NO 164624 | REV

REF:

1

2/23/2010

FIRST USED: 09 J,K WH

DO NOT SCALE DRAWING

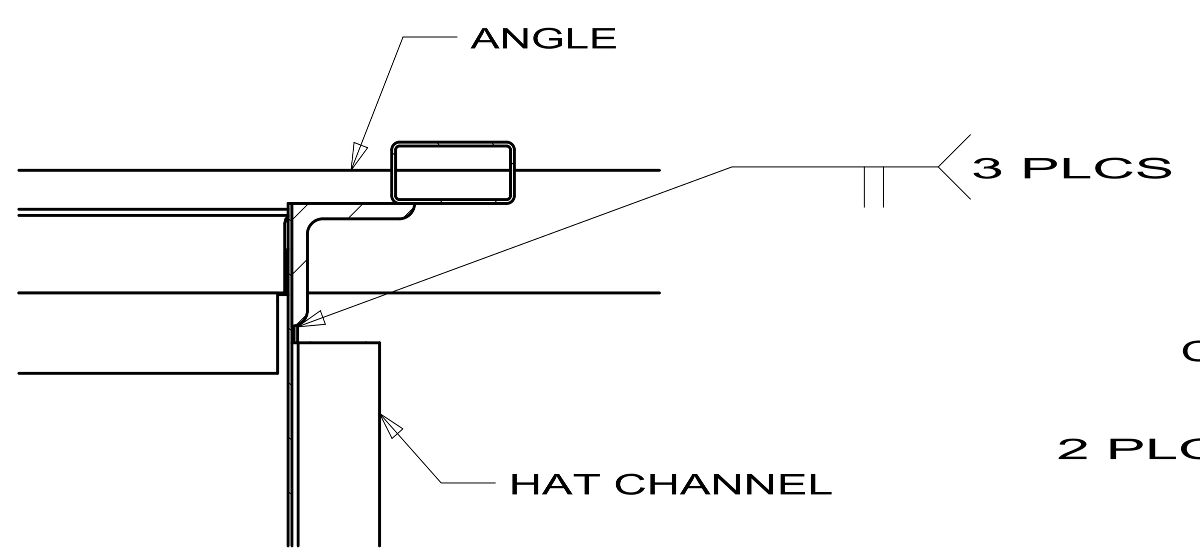
TITLE: FRONT END ASM

SHEET 2 | PART NO 164624 | REV

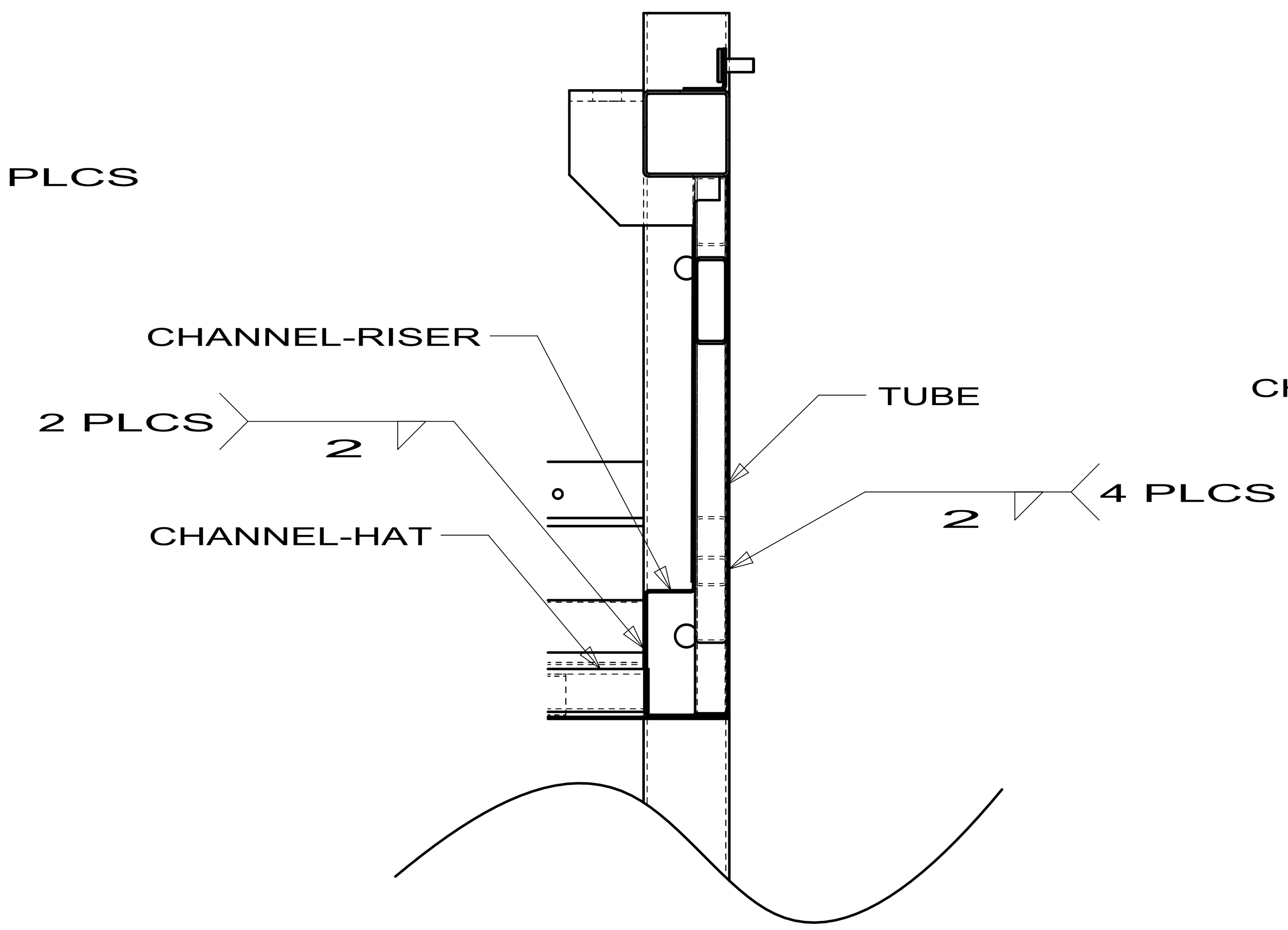
2/23/2010

FIRST USED	09 J,K WH
DO NOT SCALE DRAWING	
TITLE:	FRONT END ASM
SHEET 3	PART NO 164624 REV

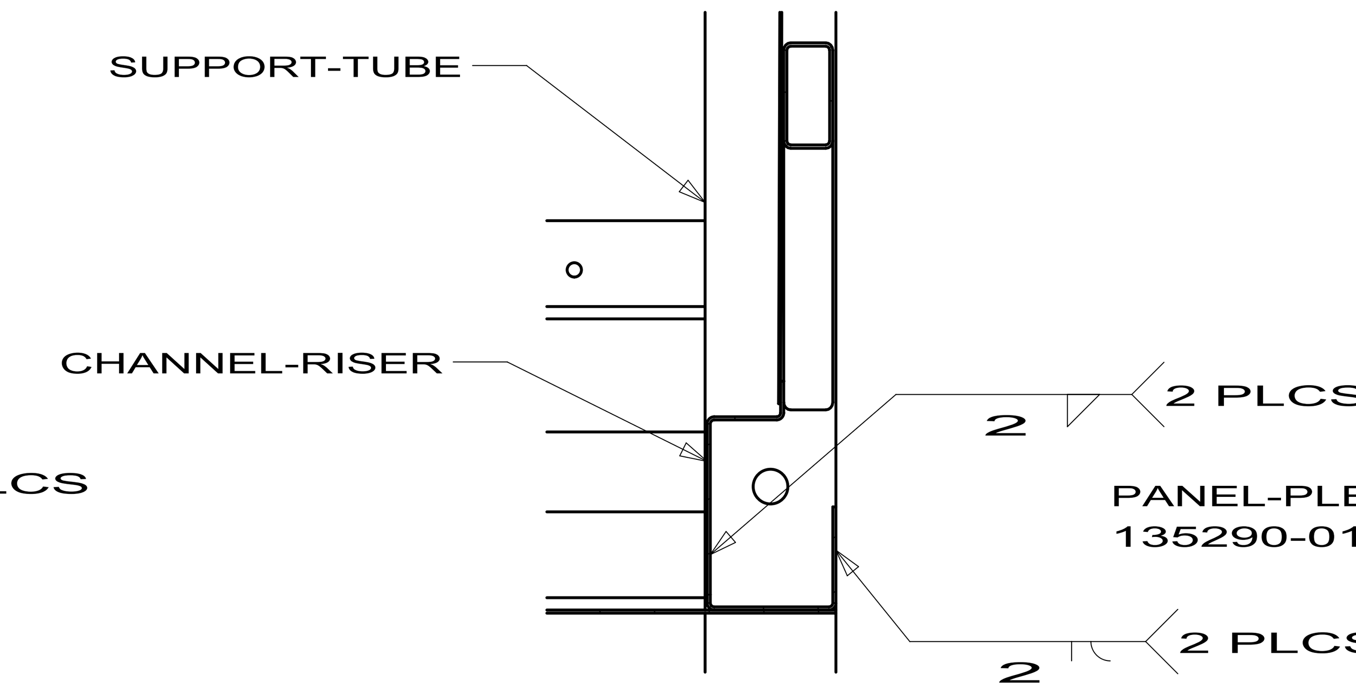
2/23/2010



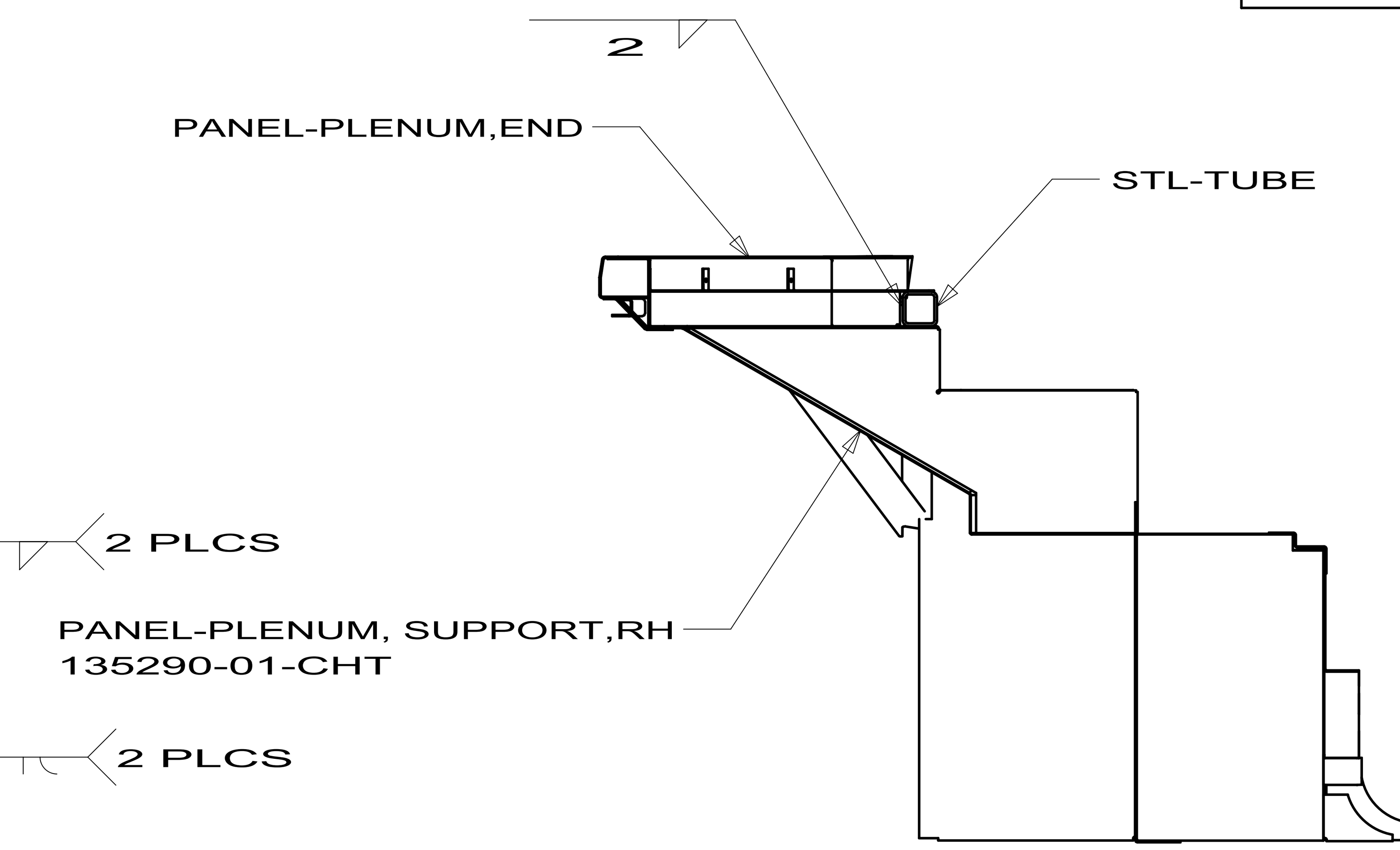
SECTION DA-DA



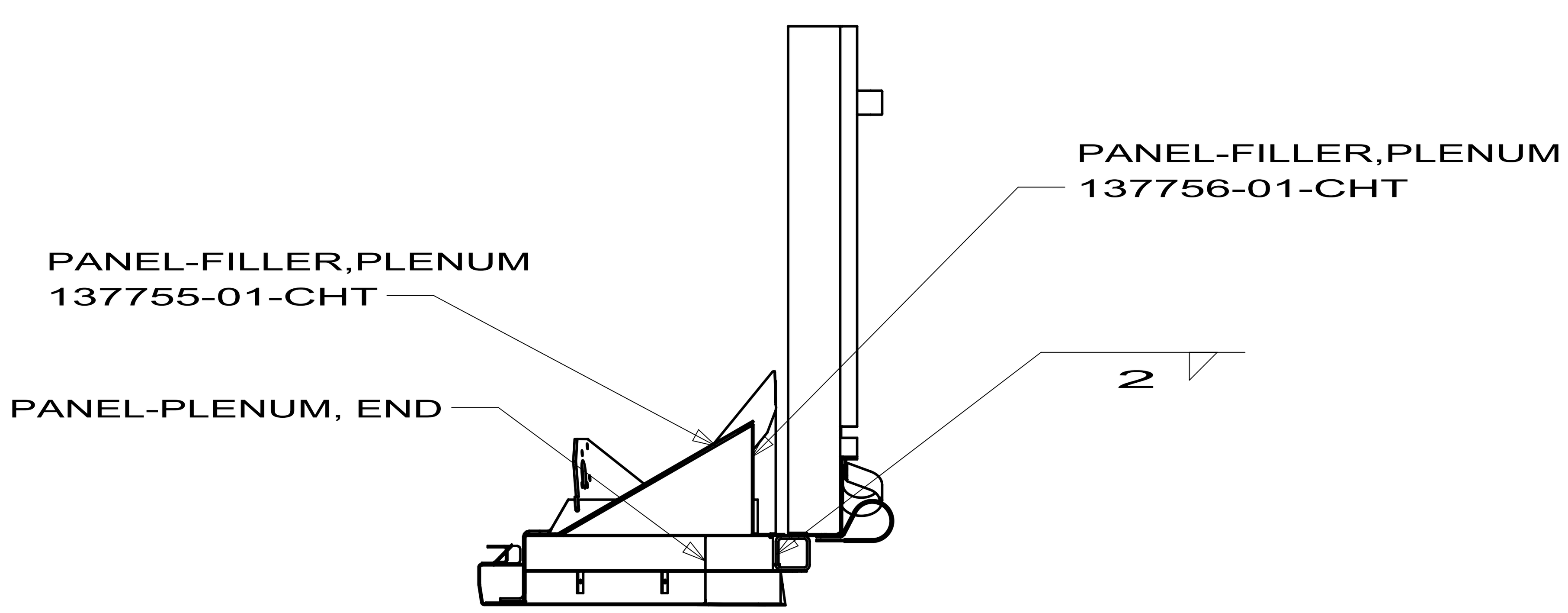
SECTION DB-DB



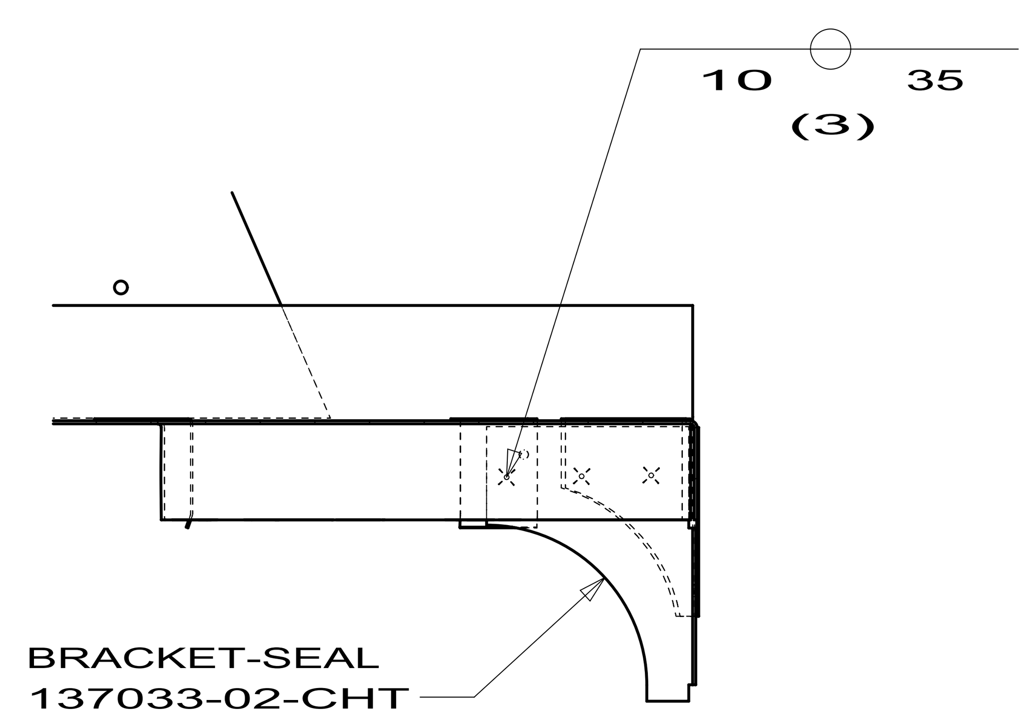
SECTION DC-DC



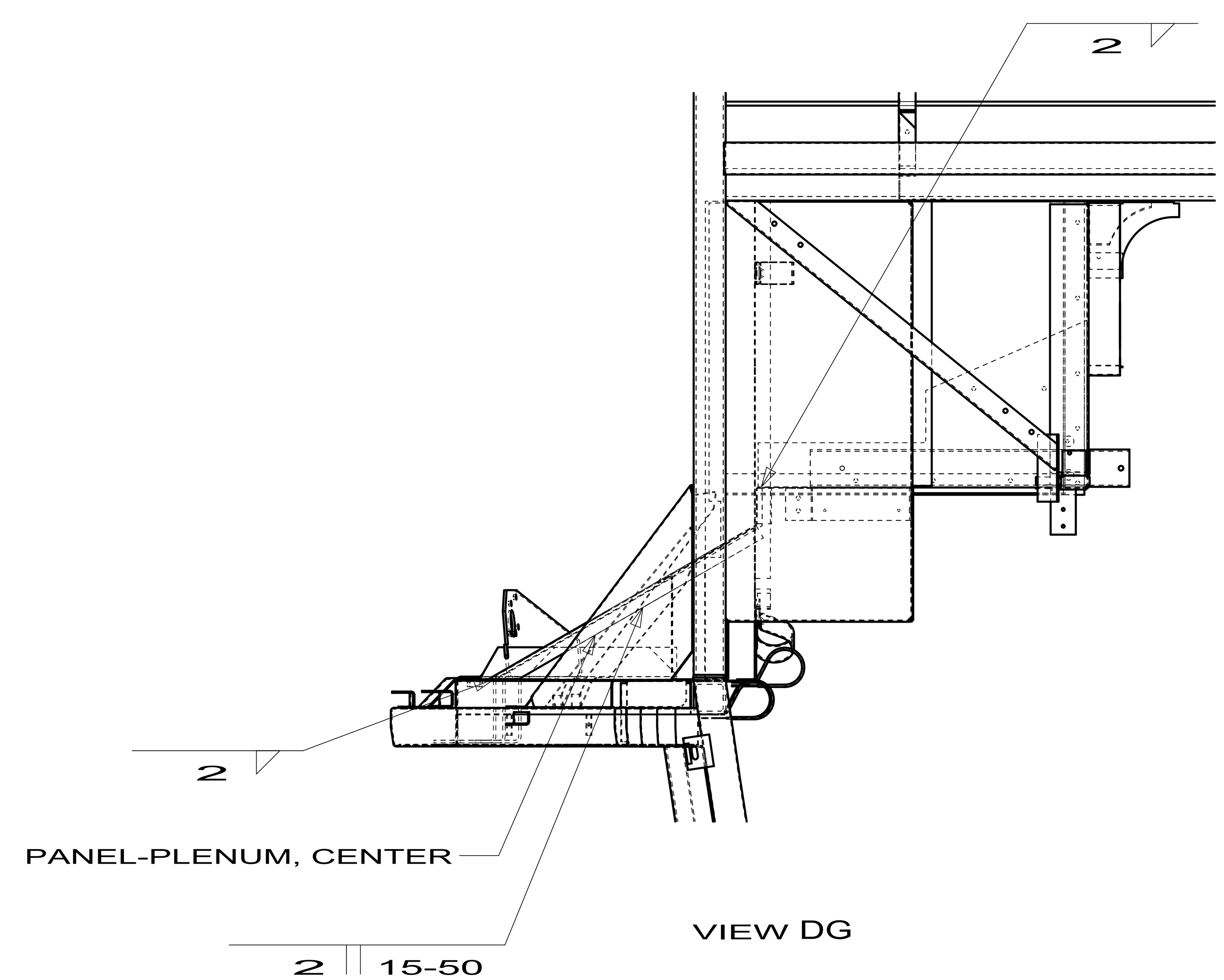
SECTION DD-DD



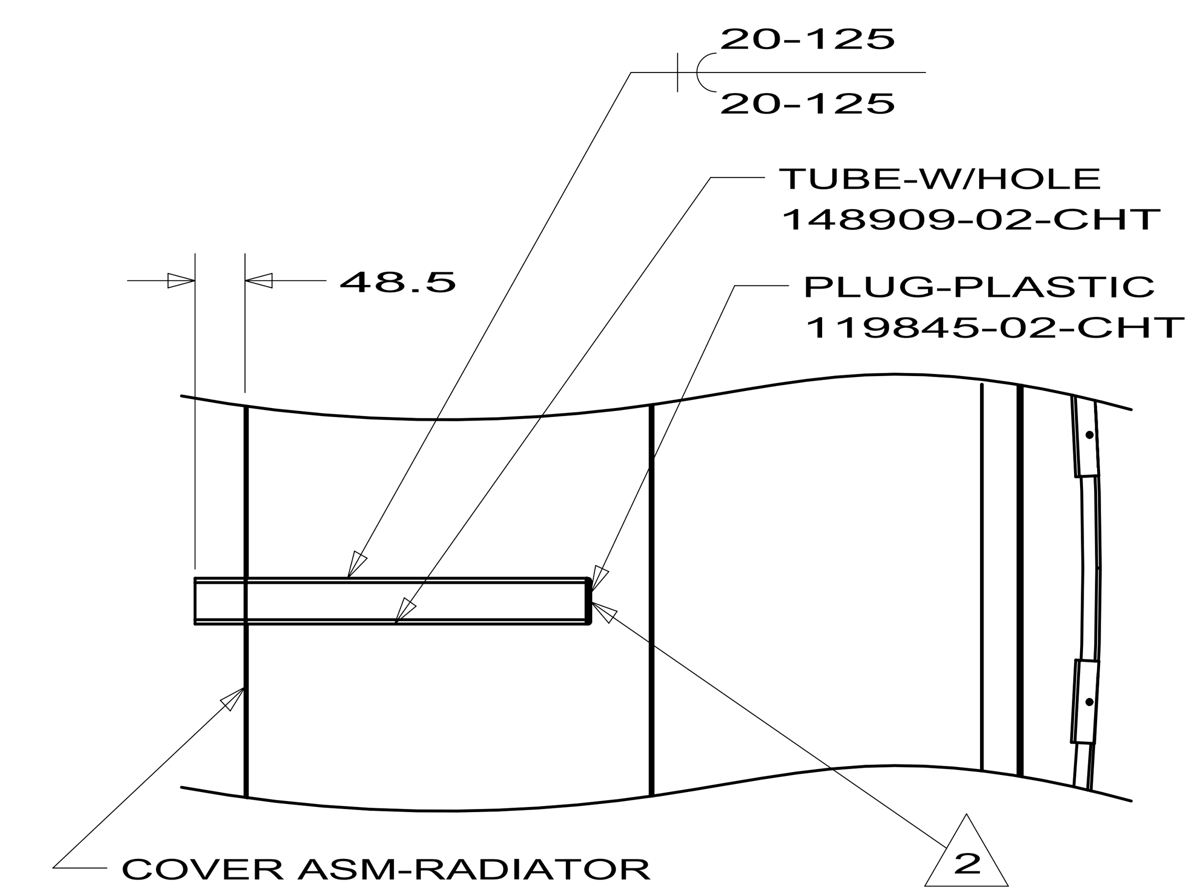
SECTION DE-DE



SECTION DF-DF



VIEW DG



SECTION DH-DH

FIRST USED	09 J,K WH
	DO NOT SCALE DRAWING
TITLE:	FRONT END ASM
SHEET 4	PART NO 164624 REV

2/23/2010

DWG NO 164624

FIRST USED: 09 J,K WH

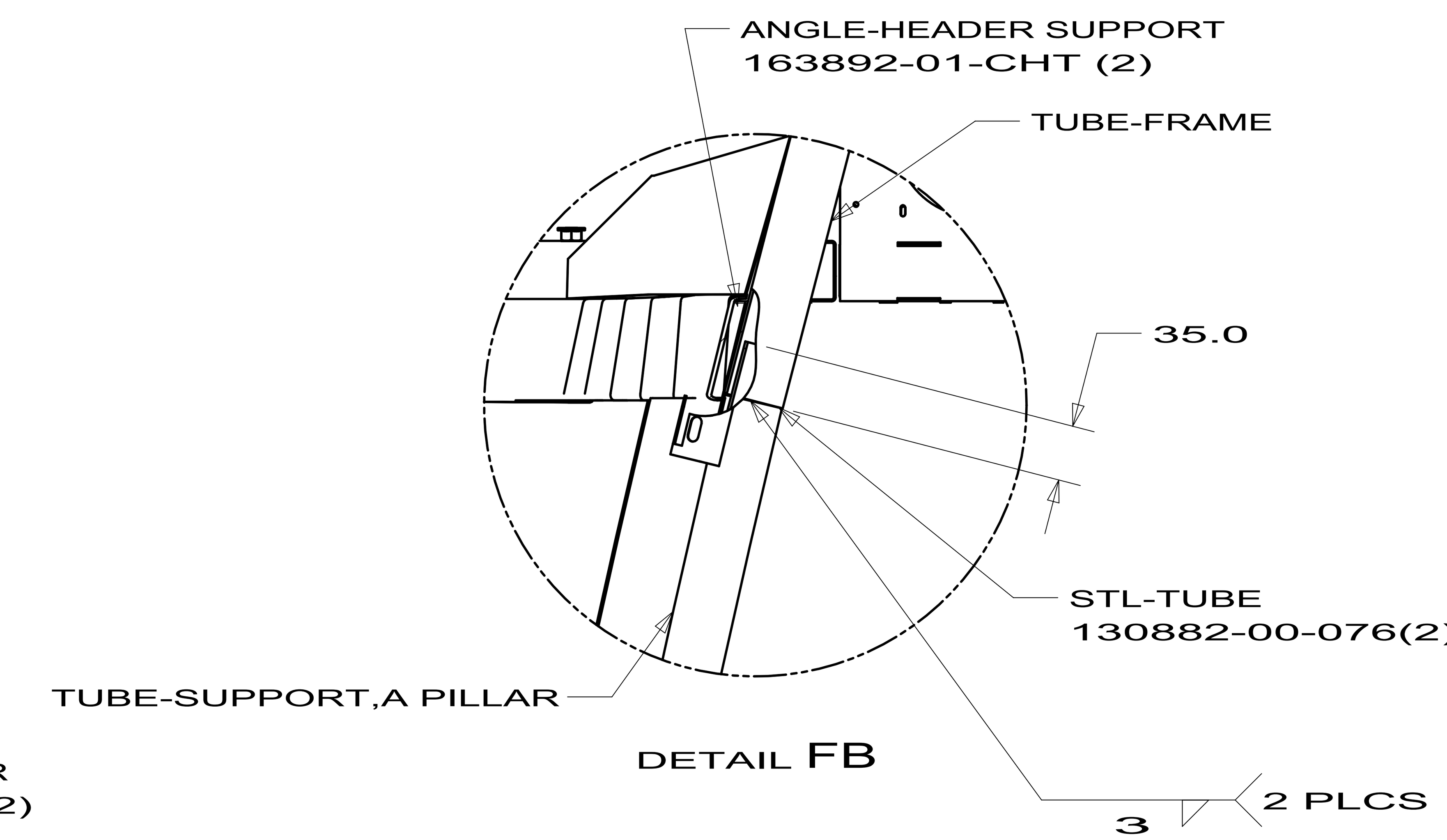
DO NOT SCALE DRAWING

TITLE: FRONT END ASM

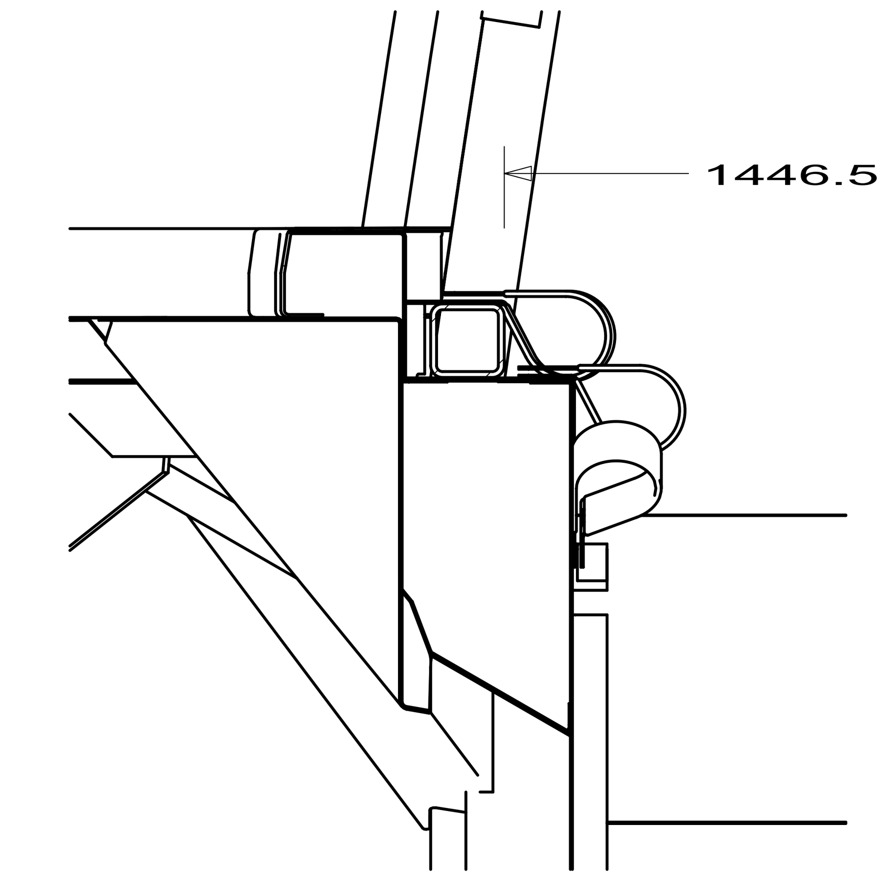
SHEET 5 PART NO 164624 REV

2/23/2010

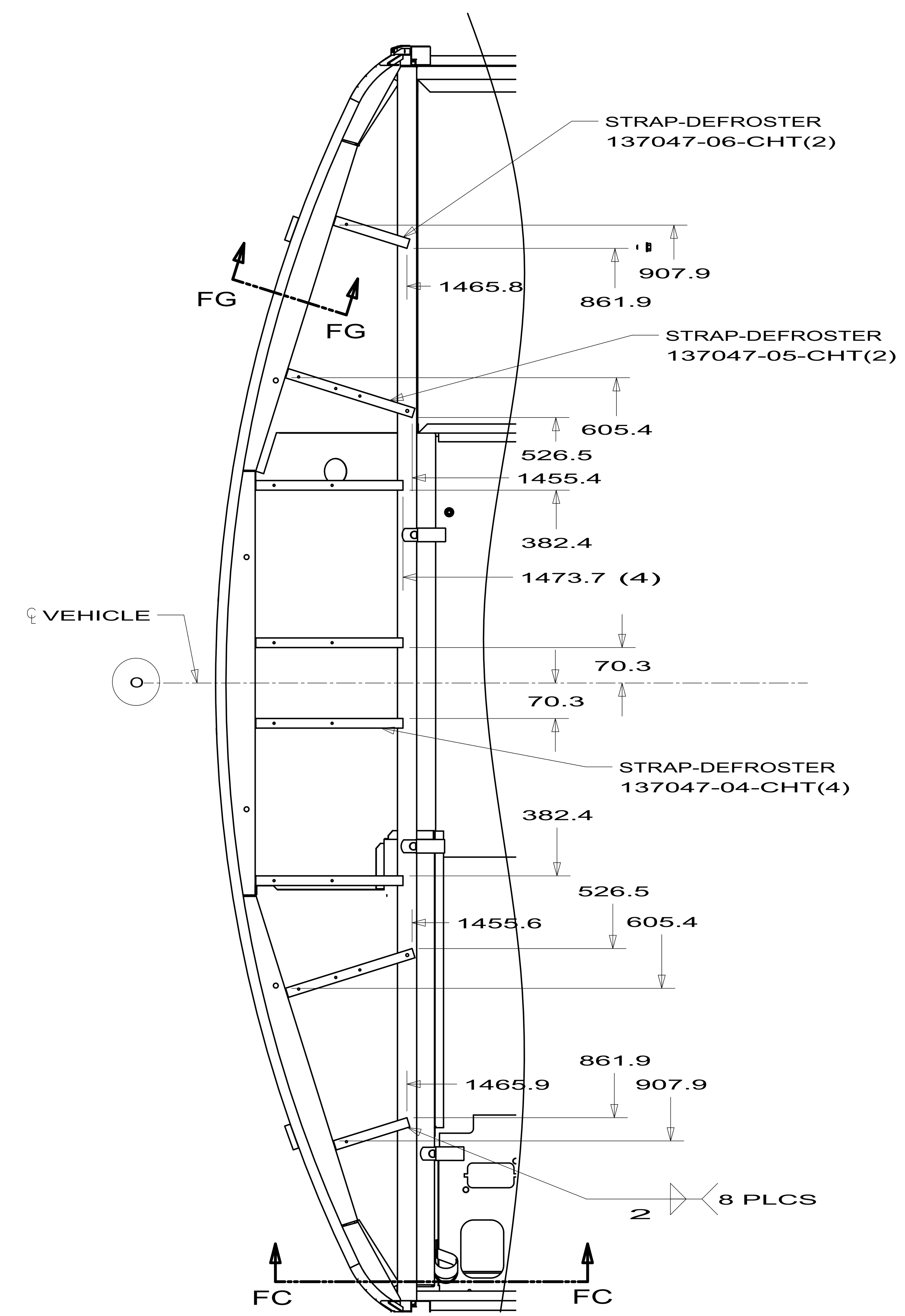
DWG NO 164624

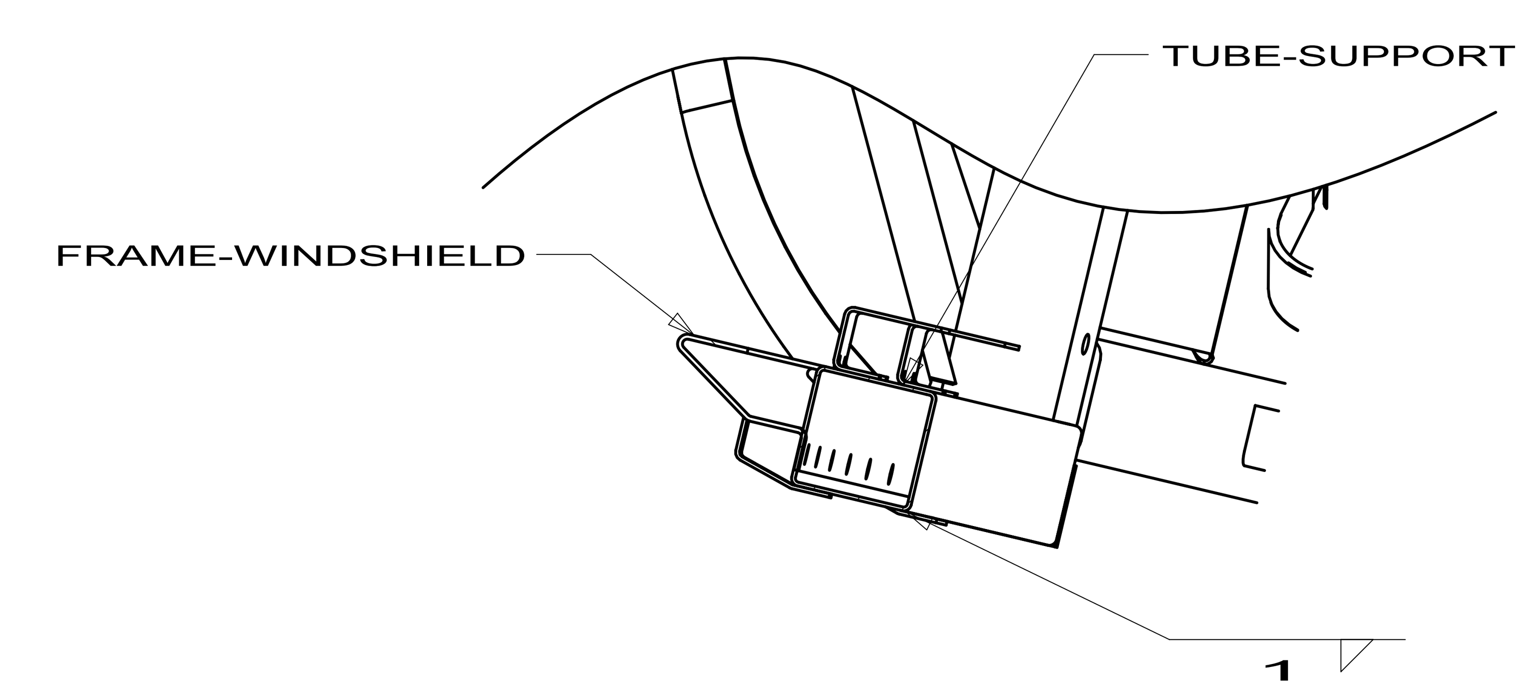


DETAIL FB

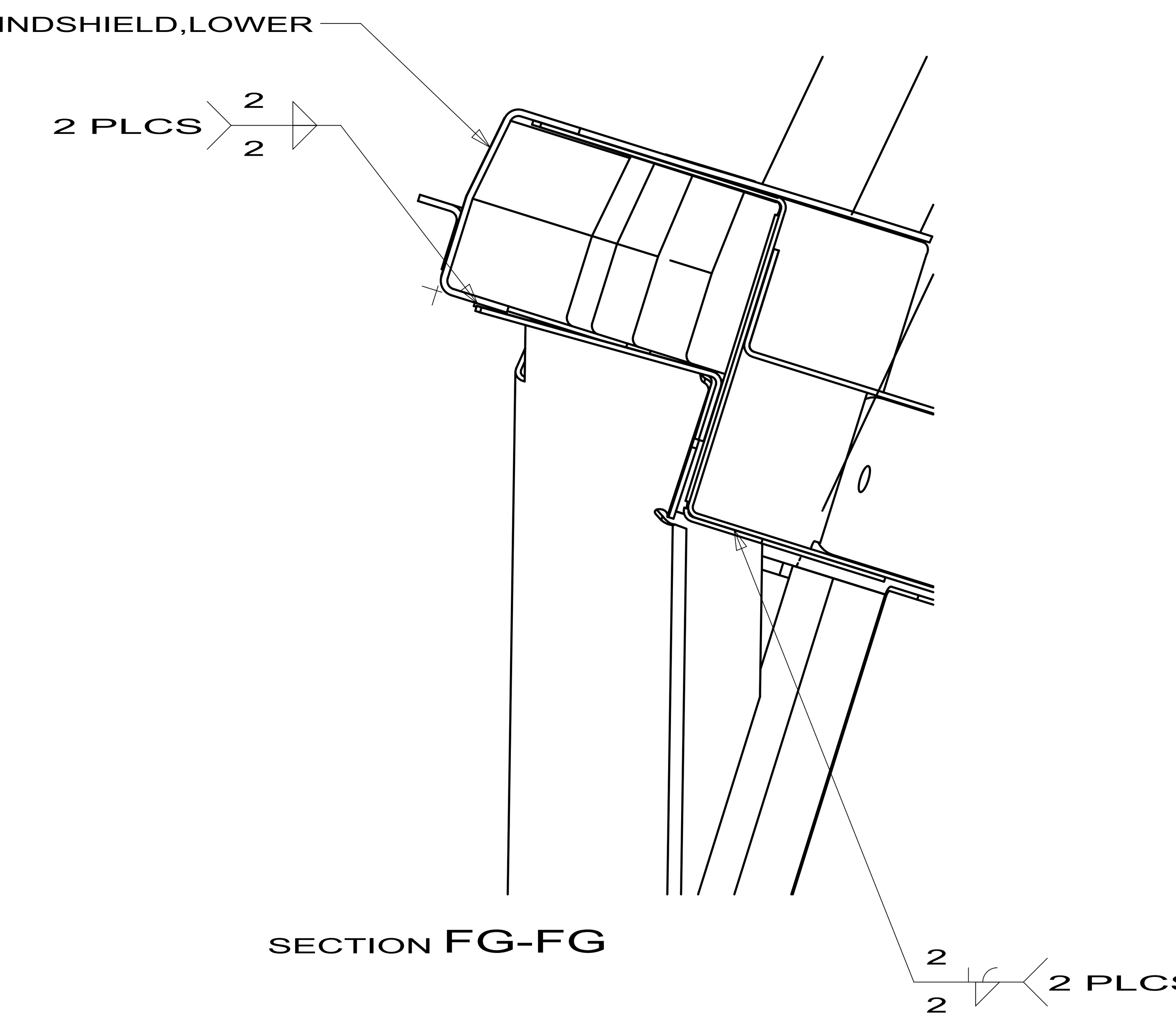


SECTION FC-FC





SECTION FF-FF

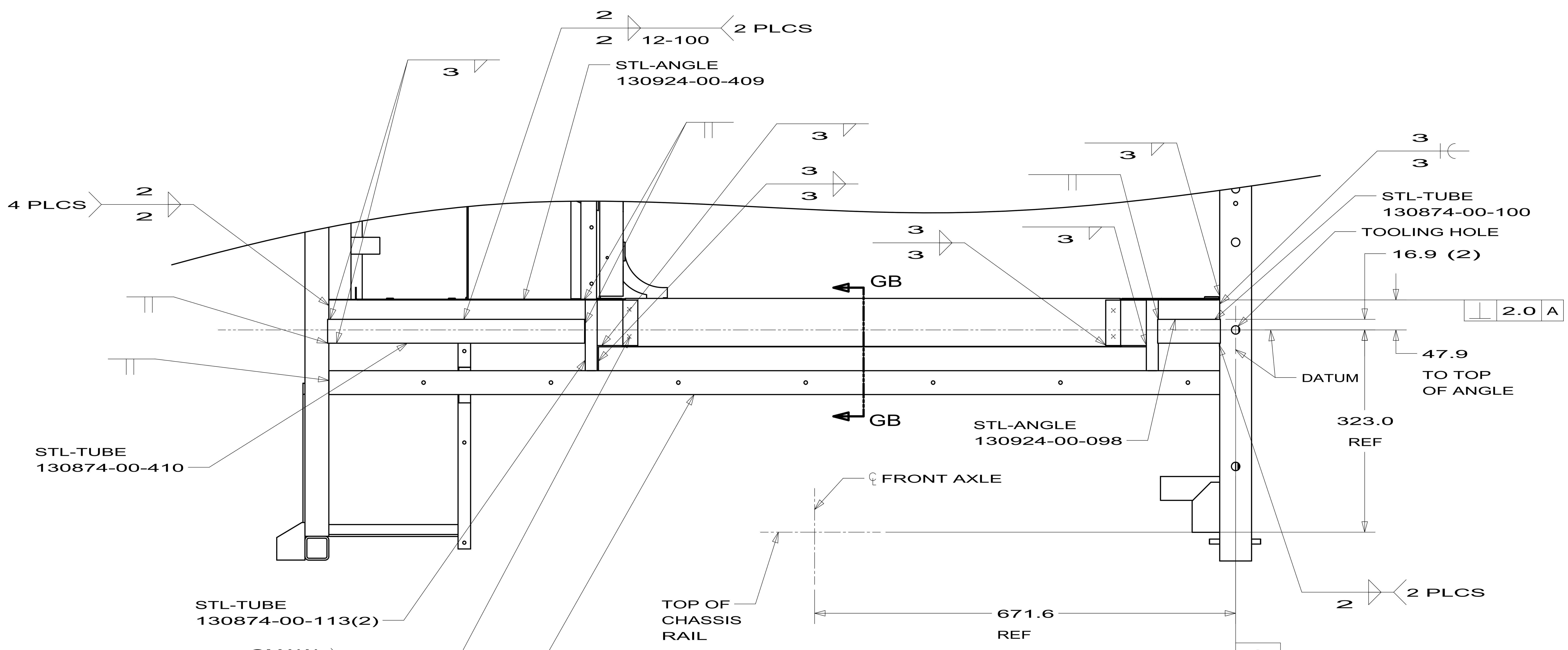


SECTION FG-FG

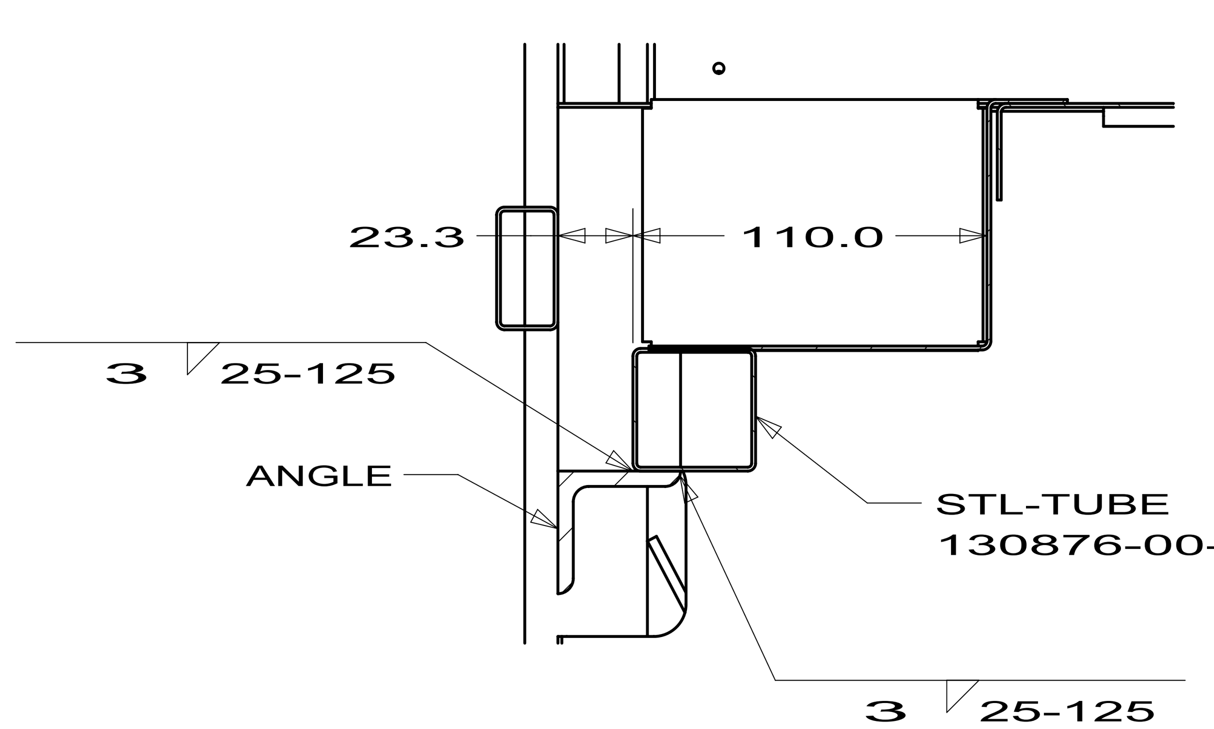
SECTION FA-FA

FIRST USED	09 J,K WH
	DO NOT SCALE DRAWING
TITLE:	FRONT END ASM
SHEET 6	PART NO 164624 REV

2/23/2010



DETAIL GA



SECTION GB-GB

FIRST USED	09 J,K WH
	DO NOT SCALE DRAWING
TITLE:	FRONT END ASM
SHEET 7	PART NO 164624 REV

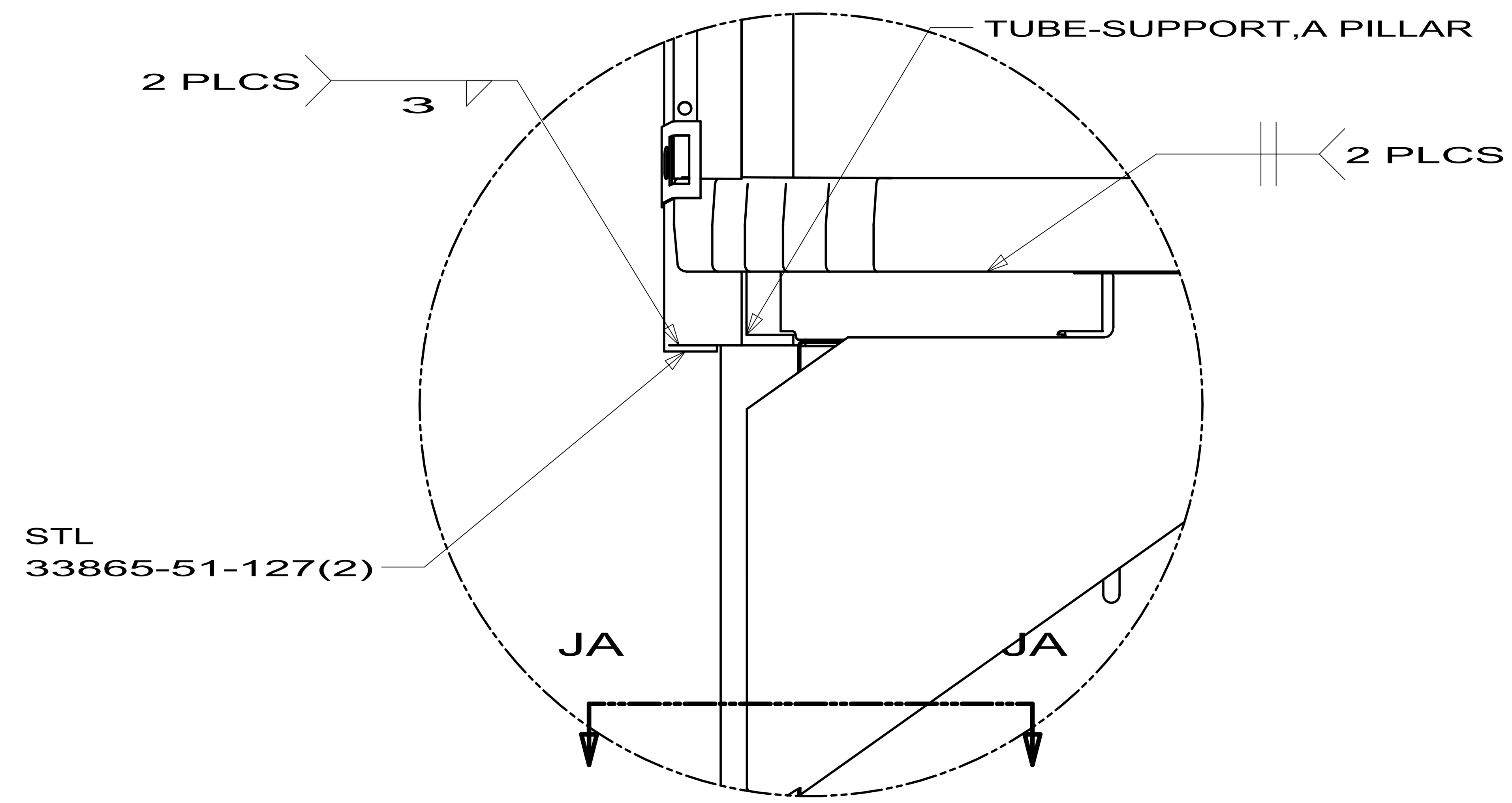
FIRST USED
09 J,K WH

DO NOT SCALE DRAWING

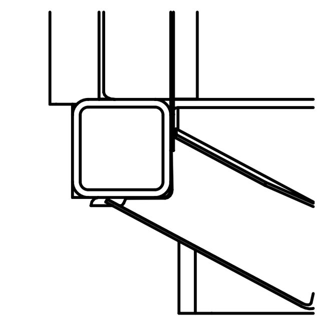
TITLE:
FRONT END ASM

SHEET 8 | PART NO 164624 | REV

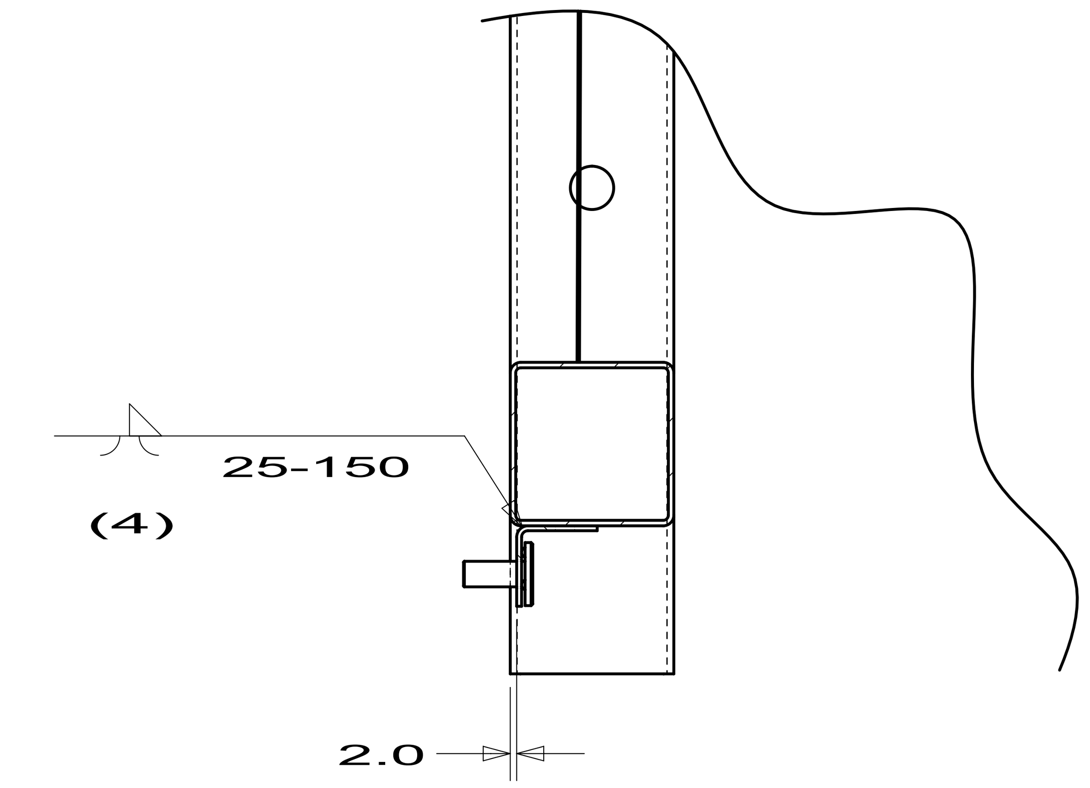
2/23/2010



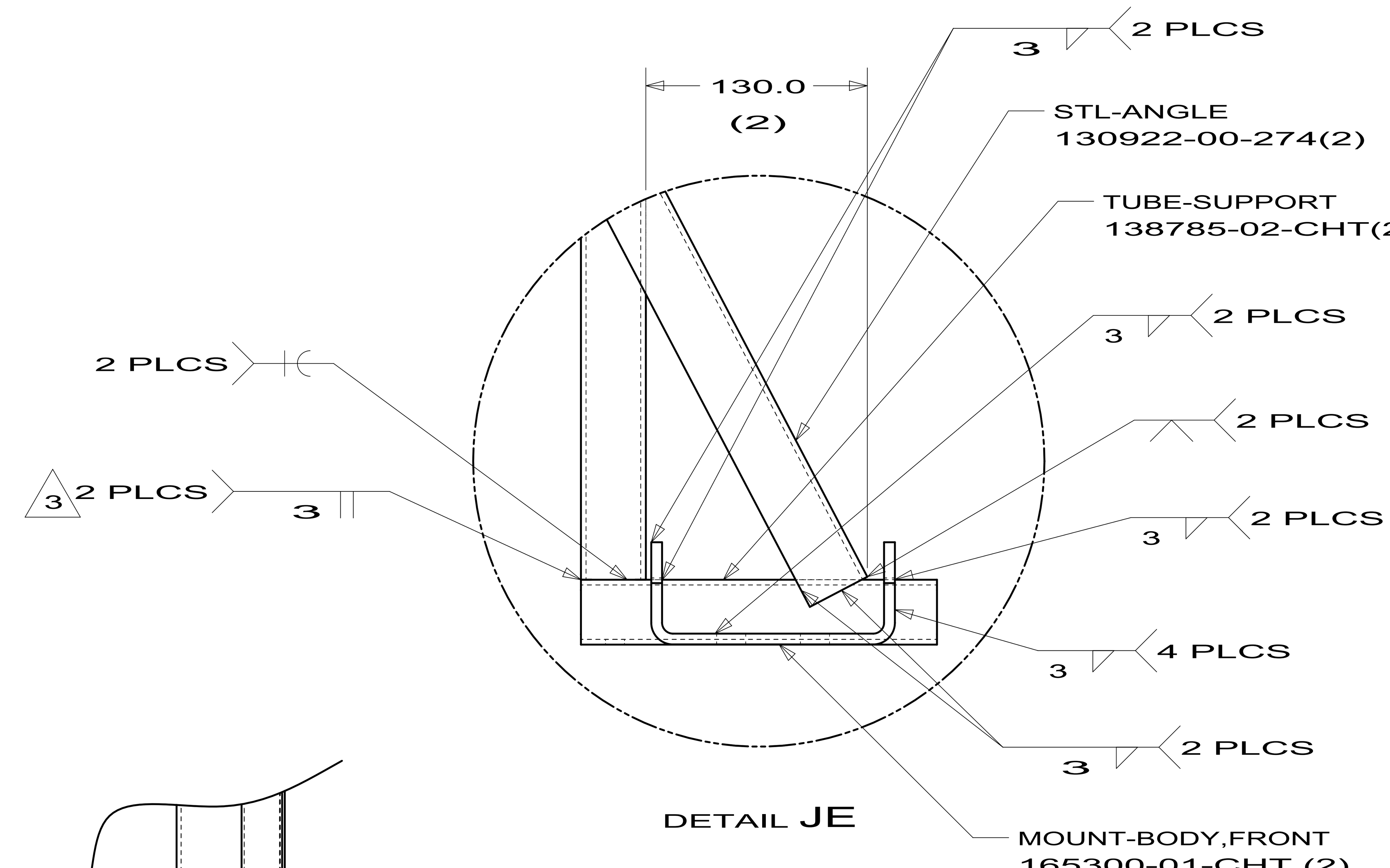
DETAIL JB



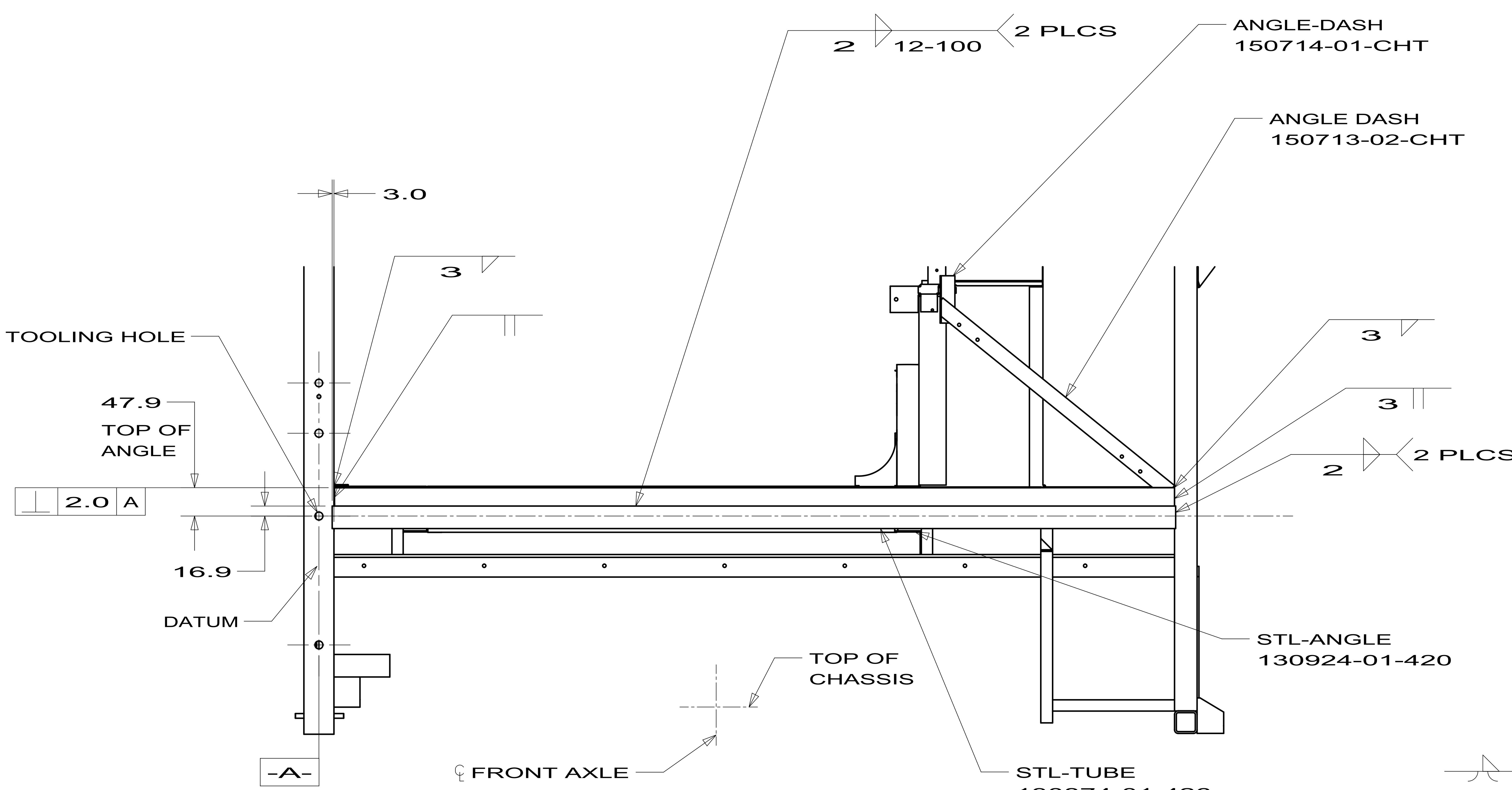
SECTION JA-JA



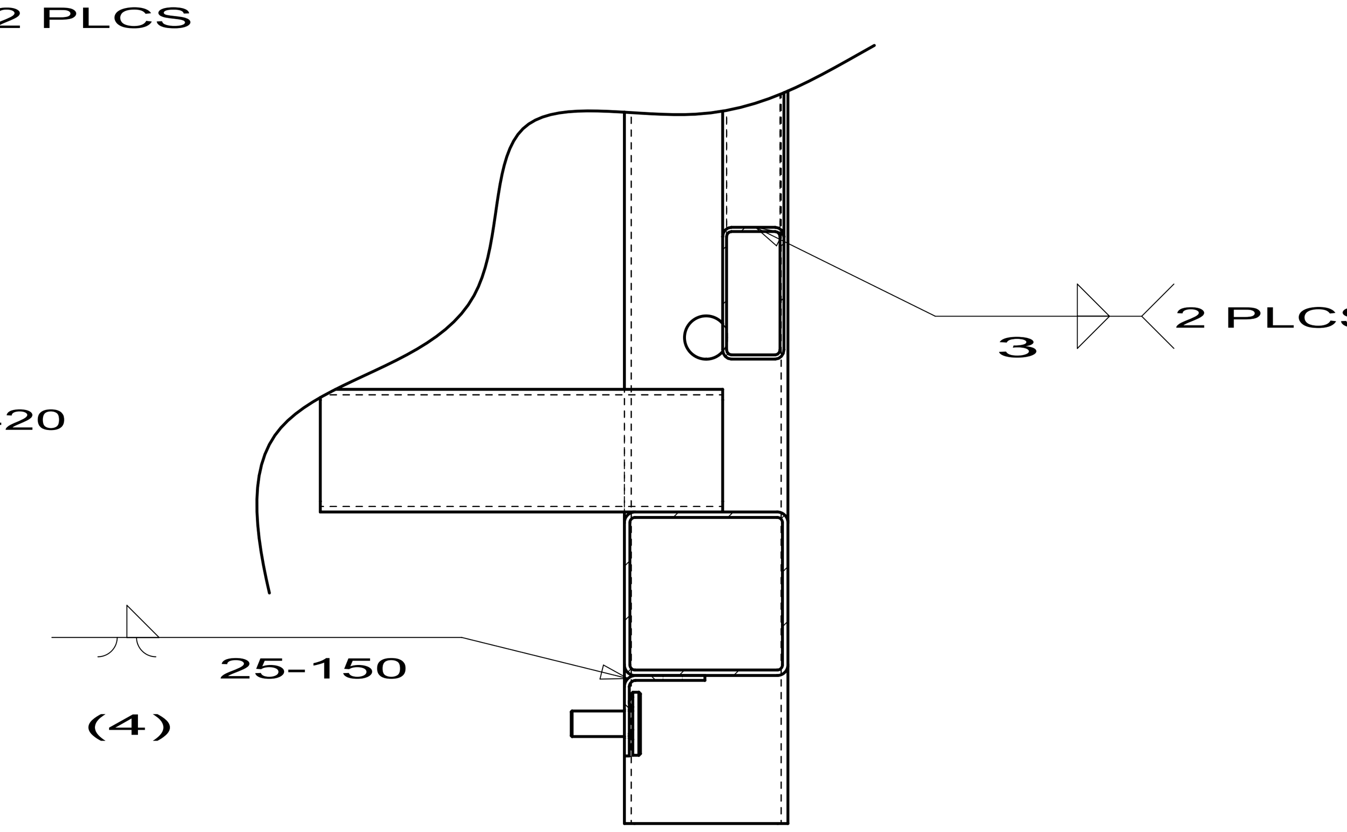
SECTION JC-JC



DETAIL JE



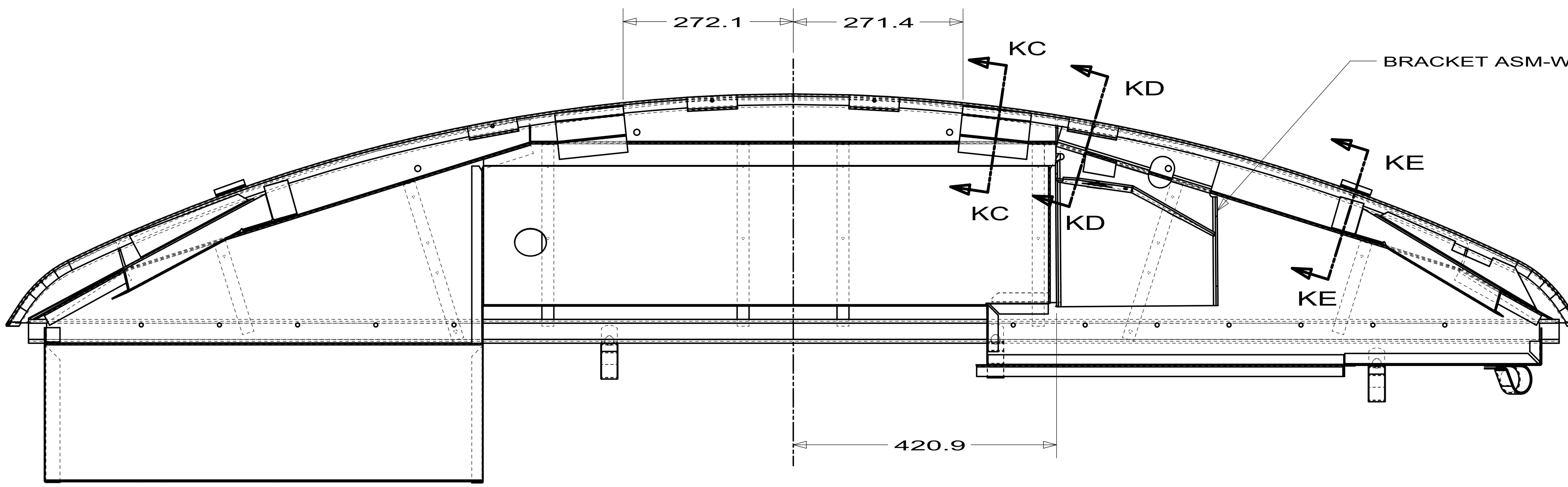
VIEW JF



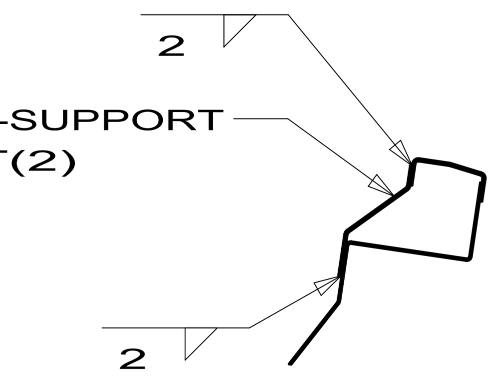
SECTION JD-JD

FIRST USED	09 J,K WH
	DO NOT SCALE DRAWING
TITLE:	FRONT END ASM
SHEET 9	PART NO 164624 REV

DWG NO 164624

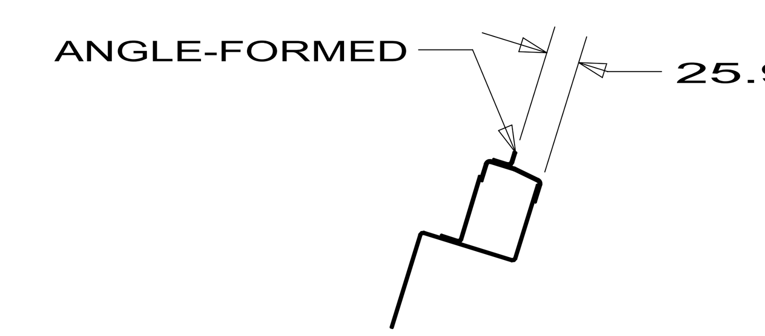


SECTION KA-KA

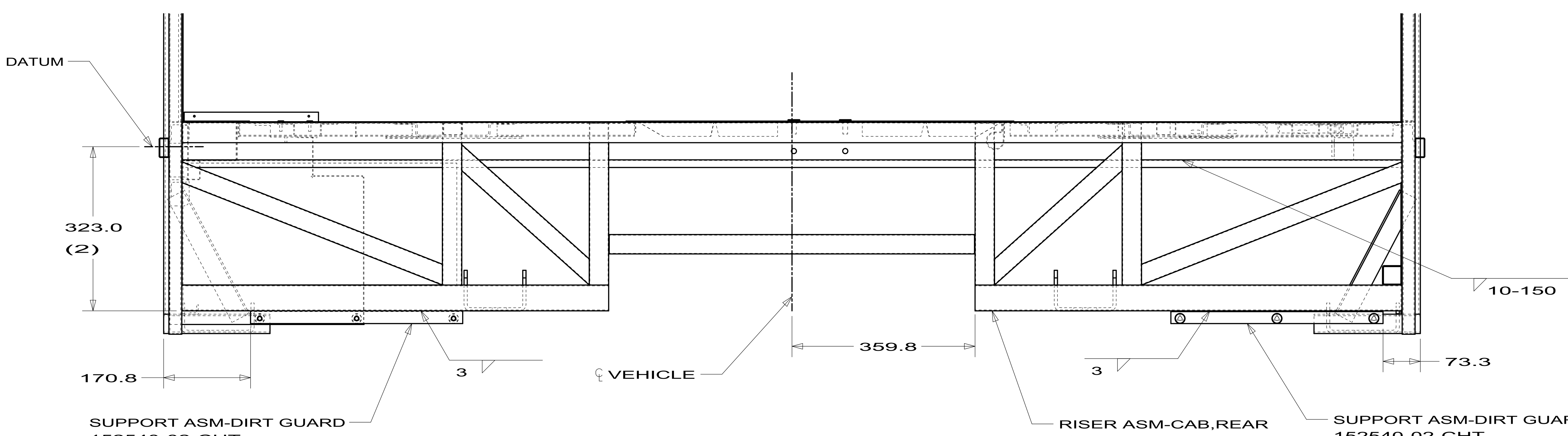


SECTION KC-KC
(2 PLCS)

SECTION KD-KD
(4 PLCS)



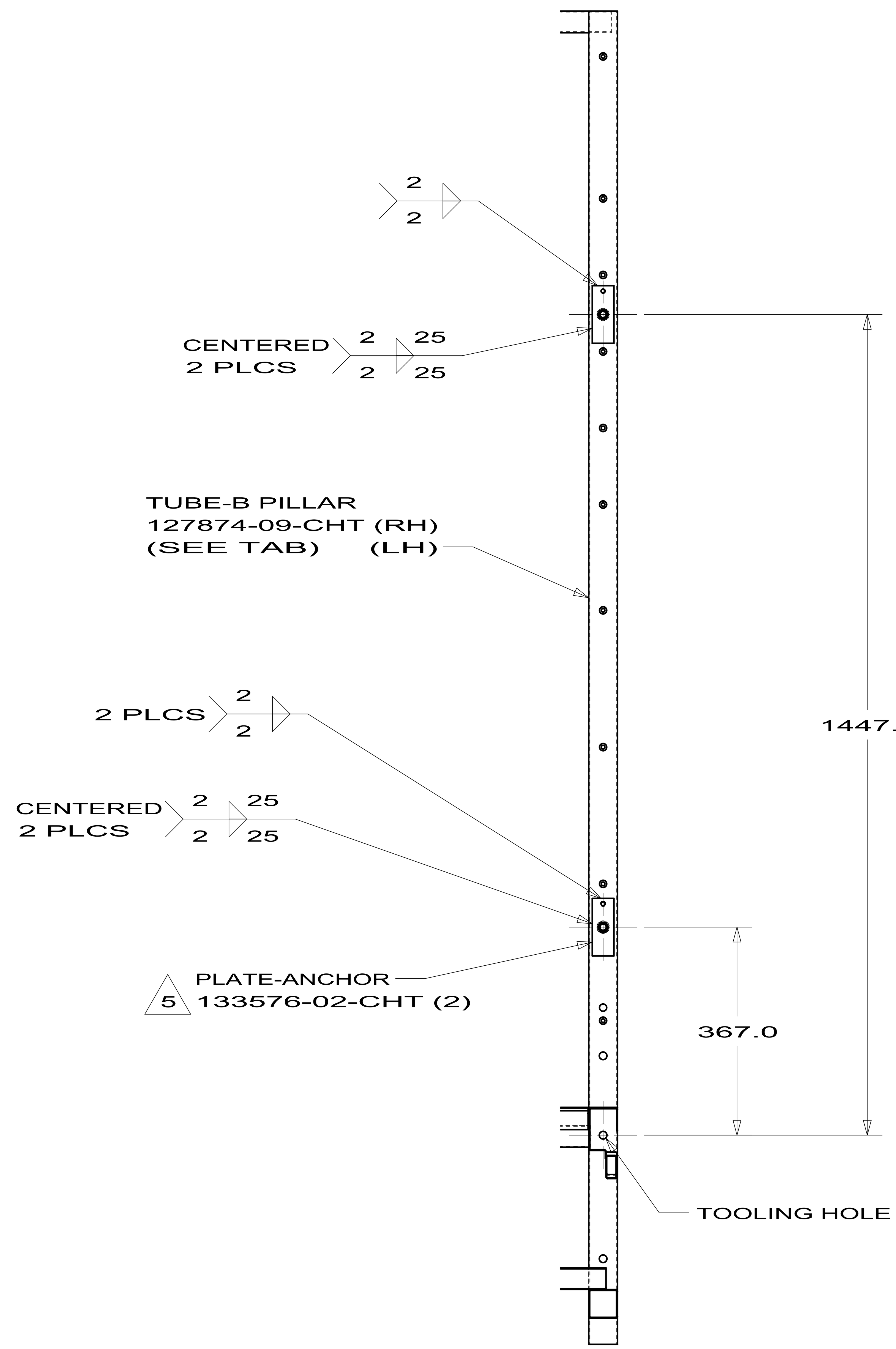
SECTION KE-KE
(2 PLCS)



VIEW KB

FIRST USED	09 J,K WH
	DO NOT SCALE DRAWING
TITLE:	FRONT END ASM
SHEET 10	PART NO 164624 REV

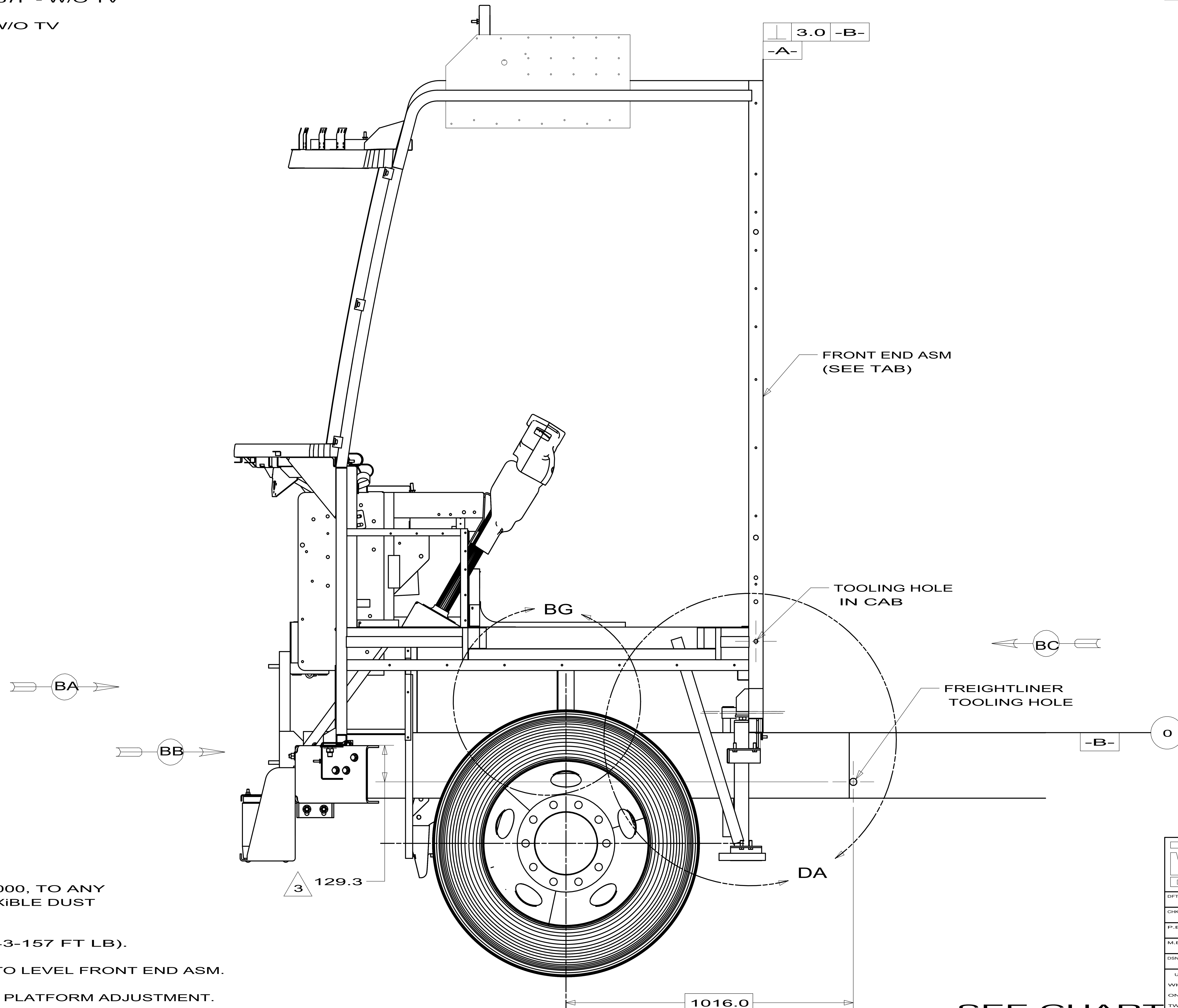
2/23/2010



SECTION LA-LA
SHOWN
SECTION LB-LB
OPPOSITE

FIRST USED	09 J,K WH
	DO NOT SCALE DRAWING
TITLE:	FRONT END ASM
SHEET 11	PART NO 164624 REV

DWG NO	FRONT END ASM	
168874-01	168875-01-CHT	J32H, J35P, J37F - W/O TV
168874-02	168875-02-CHT	J35Z, J38N - W/O TV
168874-03	168875-03-CHT	NOT USED
168874-04	168875-04-CHT	J35Z - W/TV
168874-05	168875-05-CHT	NOT USED
168874-06	168875-06-CHT	J37F - W/TV



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

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

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

4. UNBOLT AND WELD AS NEEDED AFTER PLATFORM ADJUSTMENT.

3. ADJUST HEIGHT OF SUPPORT TO LOCATE CAB PROPERLY.

2. SEAL ALL JOINTS BETWEEN PANELS AND CAB.

1. REMOVE ALL BURRS AND SHARP EDGES.

NOTES:

SEE CHART

FOR COLOR VARIATIONS OF THIS PART

INDICATES CRITICAL SAFETY PROCEDURE TO BE FOLLOWED

RELEASE | REV A | DATE | DWG NO 168874

REV | ZONE | REVISION RECORD | DATE | DFTR-ORIG

WINNEBAGO INDUSTRIES

DFTR | ORIG. DATE

CHKR

P.E.

ALL DIMENSIONS ARE IN MILLIMETERS

M.E.

FIRST USED: 09 J-SER,FL

DSNR

UNSPECIFIED TOLERANCES ARE:

WHOLE DIM (X)	:	3
ONE-PLACE (X.X)	:	1.5
TWO-PLACE (X.XX)	:	0.50
ANGLE	:	1°

MATERIAL:

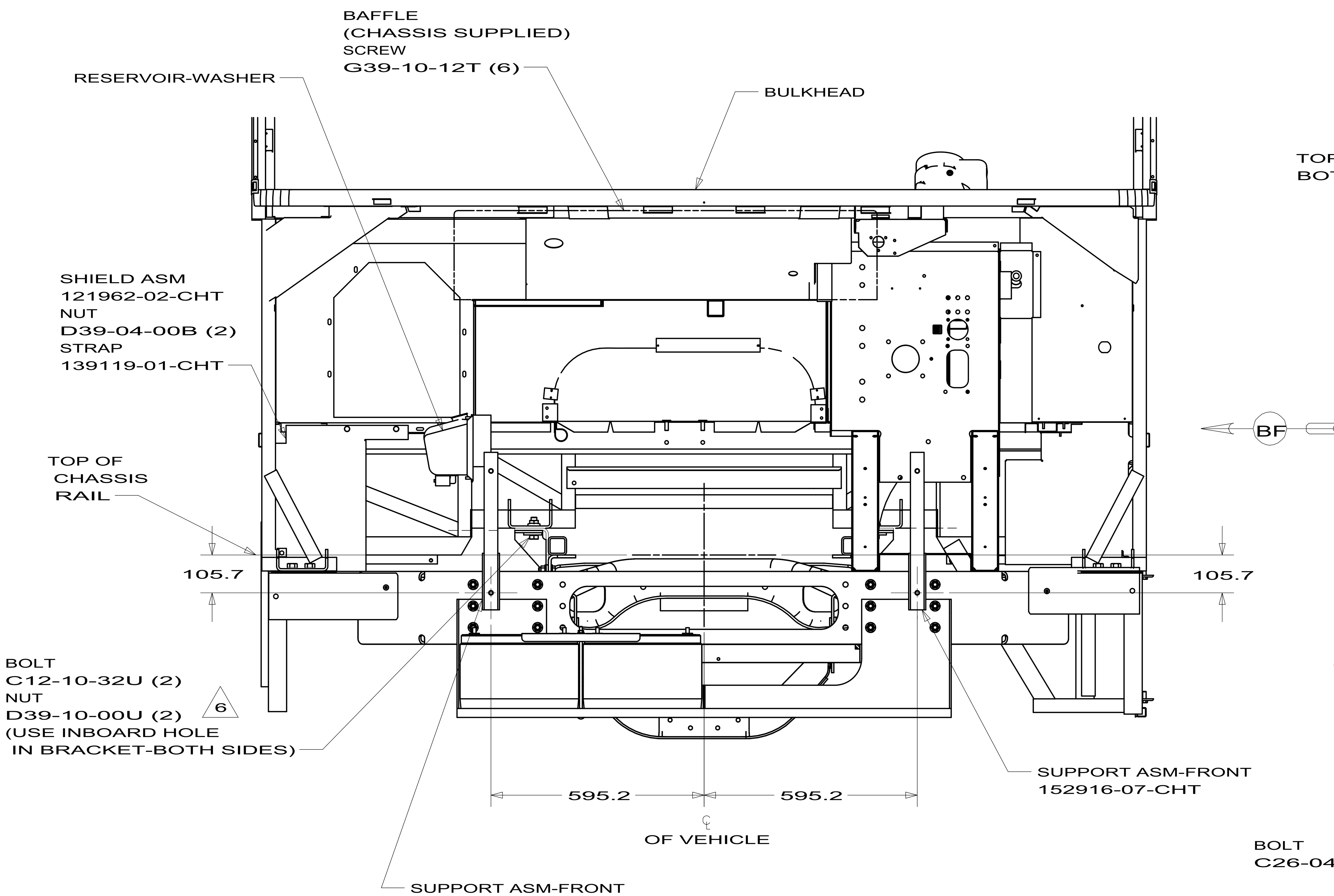
THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

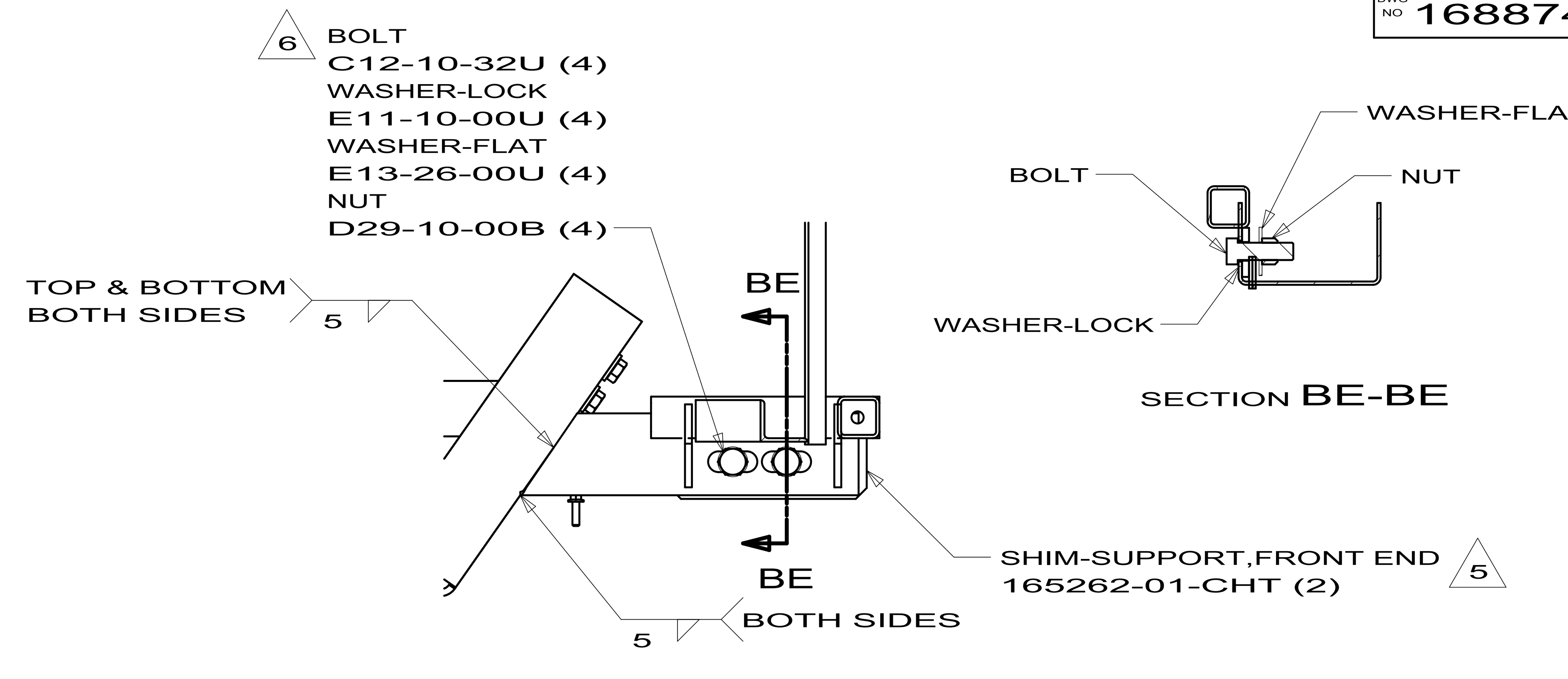
TITLE: FRONT END/CHASSIS ASM

SHEET 1 OF 4 | PART NO 168874 | REV

REF:

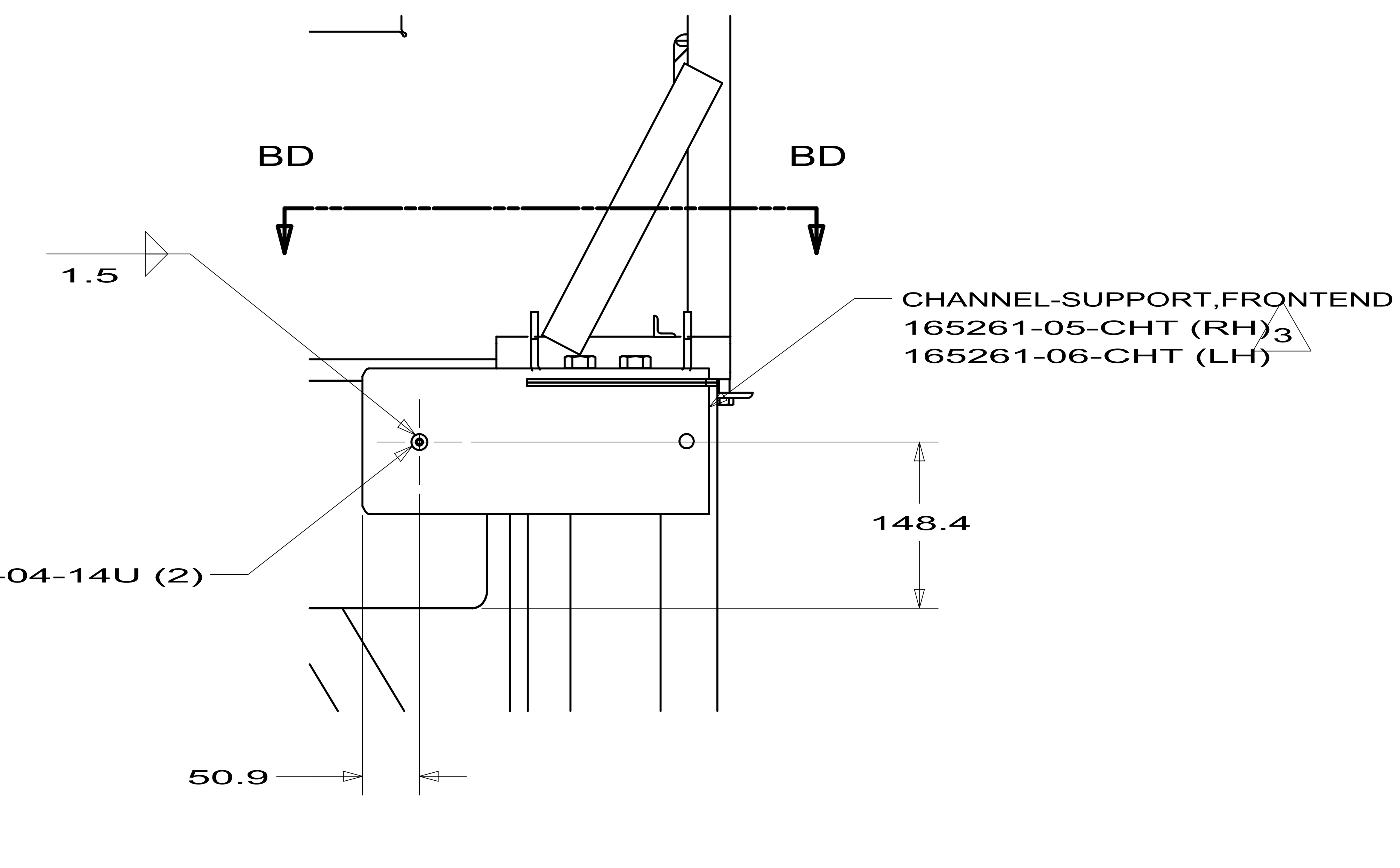


VIEW BA

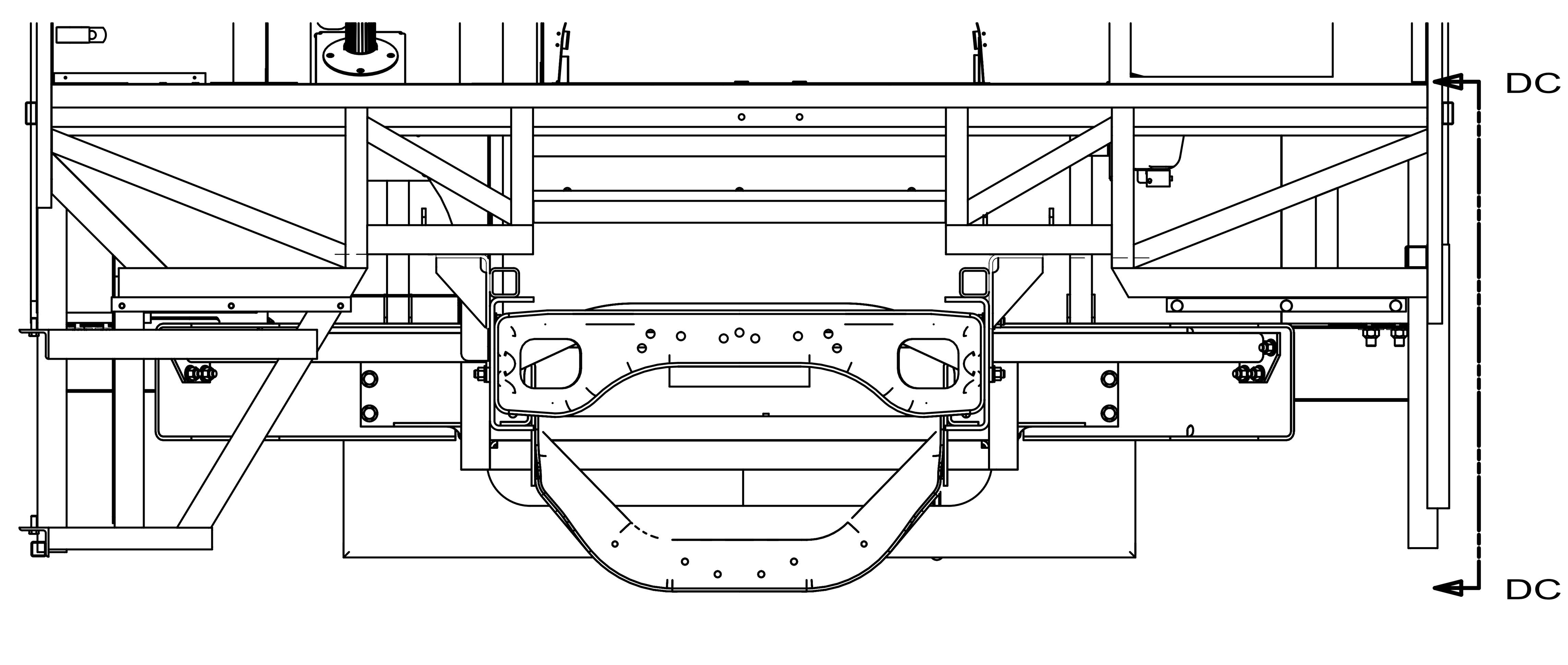


SECTION BE-BE

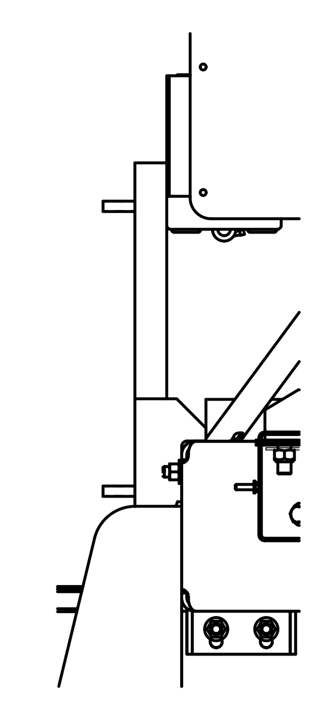
SECTION BD-BD



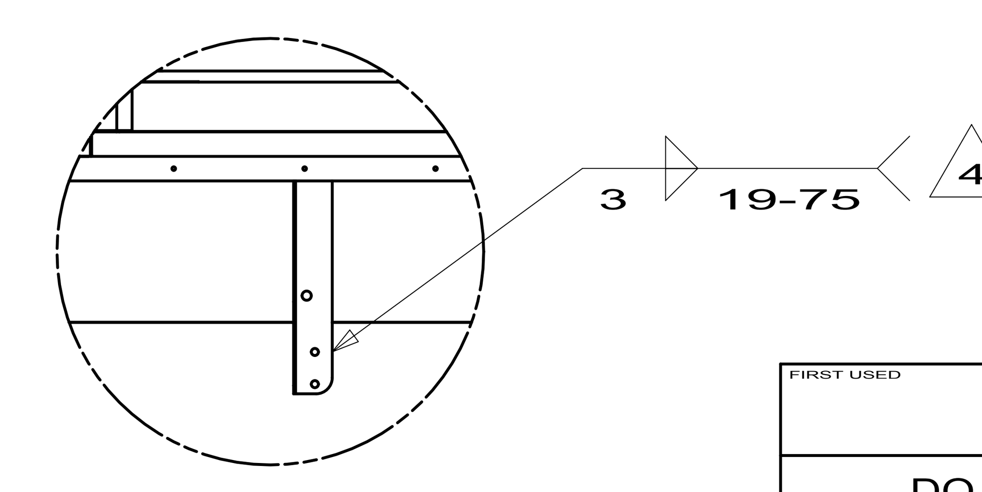
VIEW BB



VIEW BC



VIEW BF



DETAIL BG

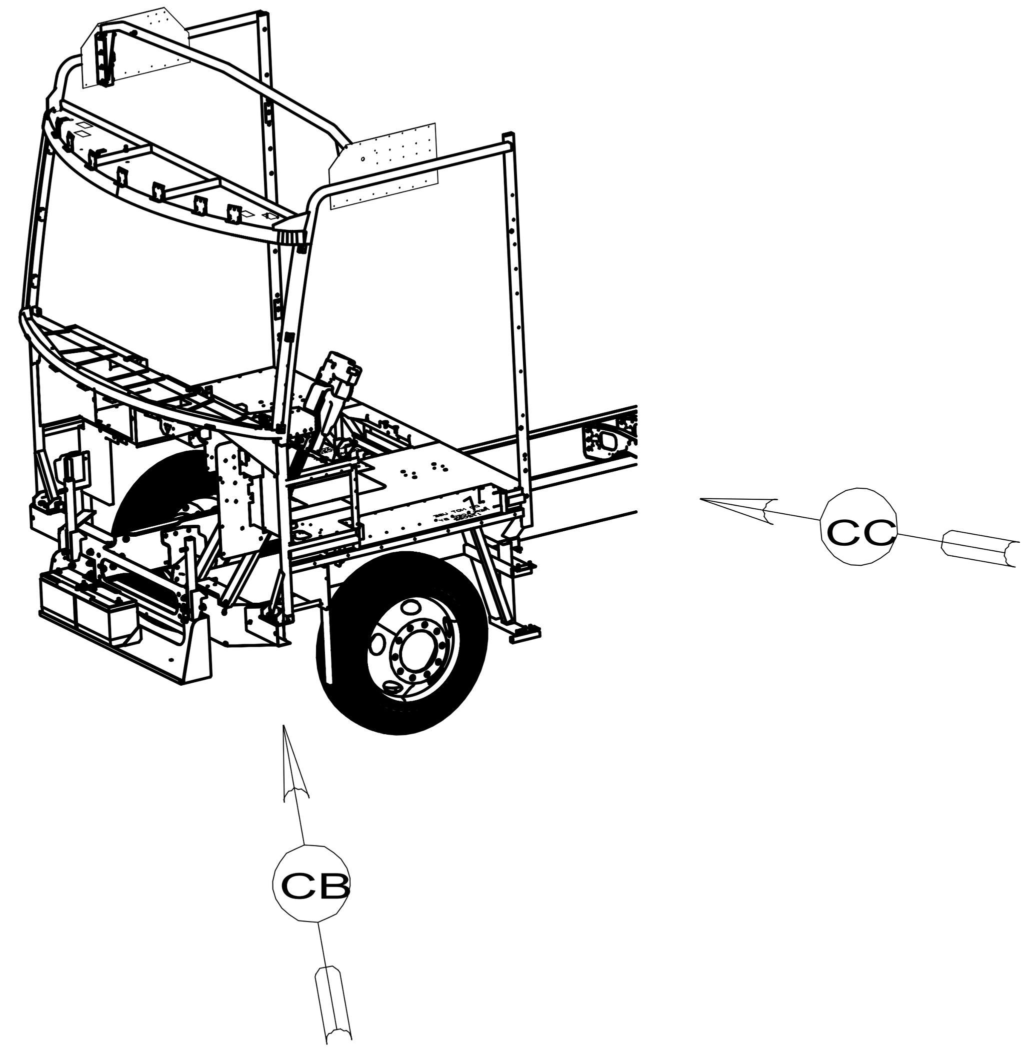
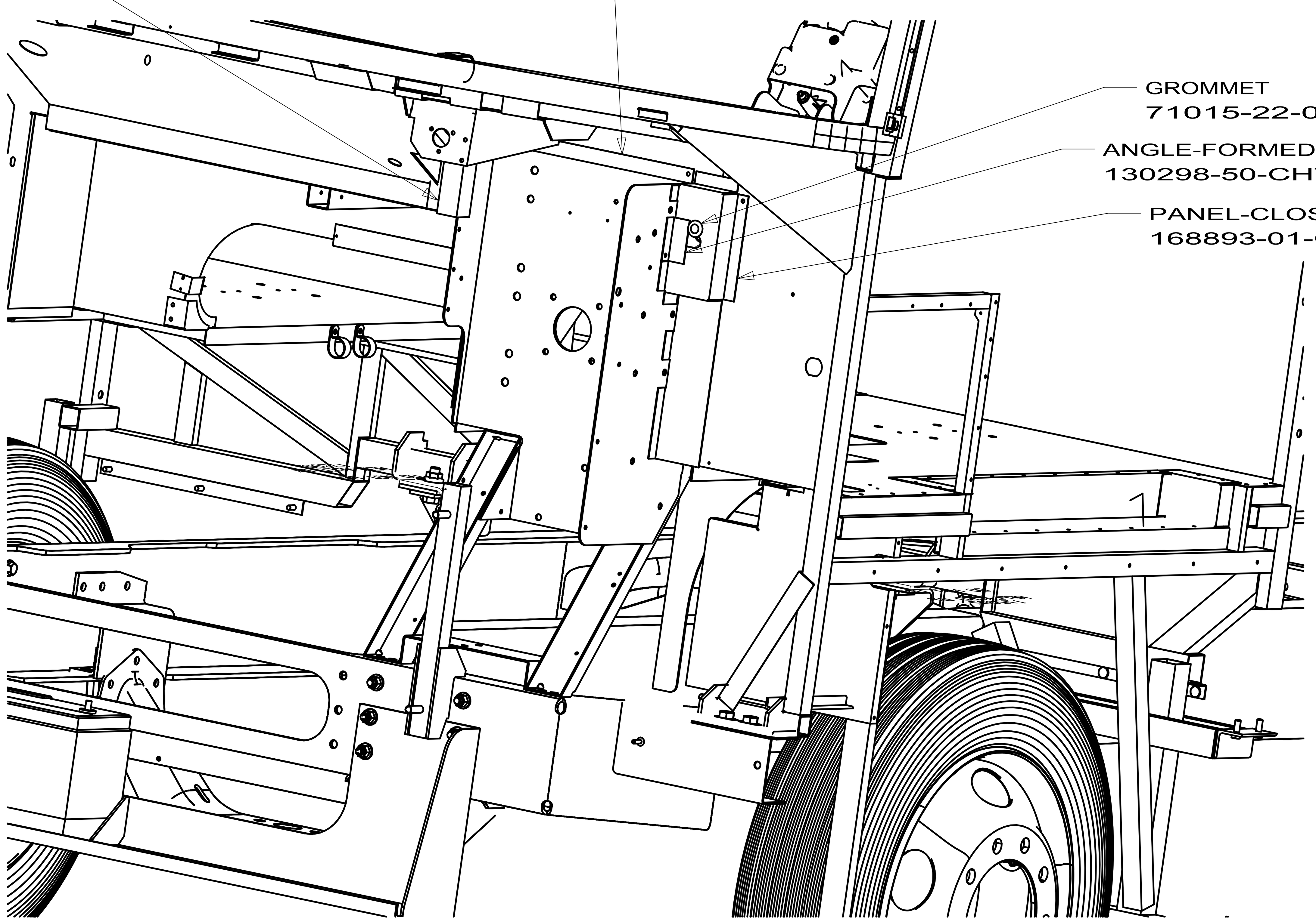
DWG NO 168874

FIRST USED: 09 J-SER,FL

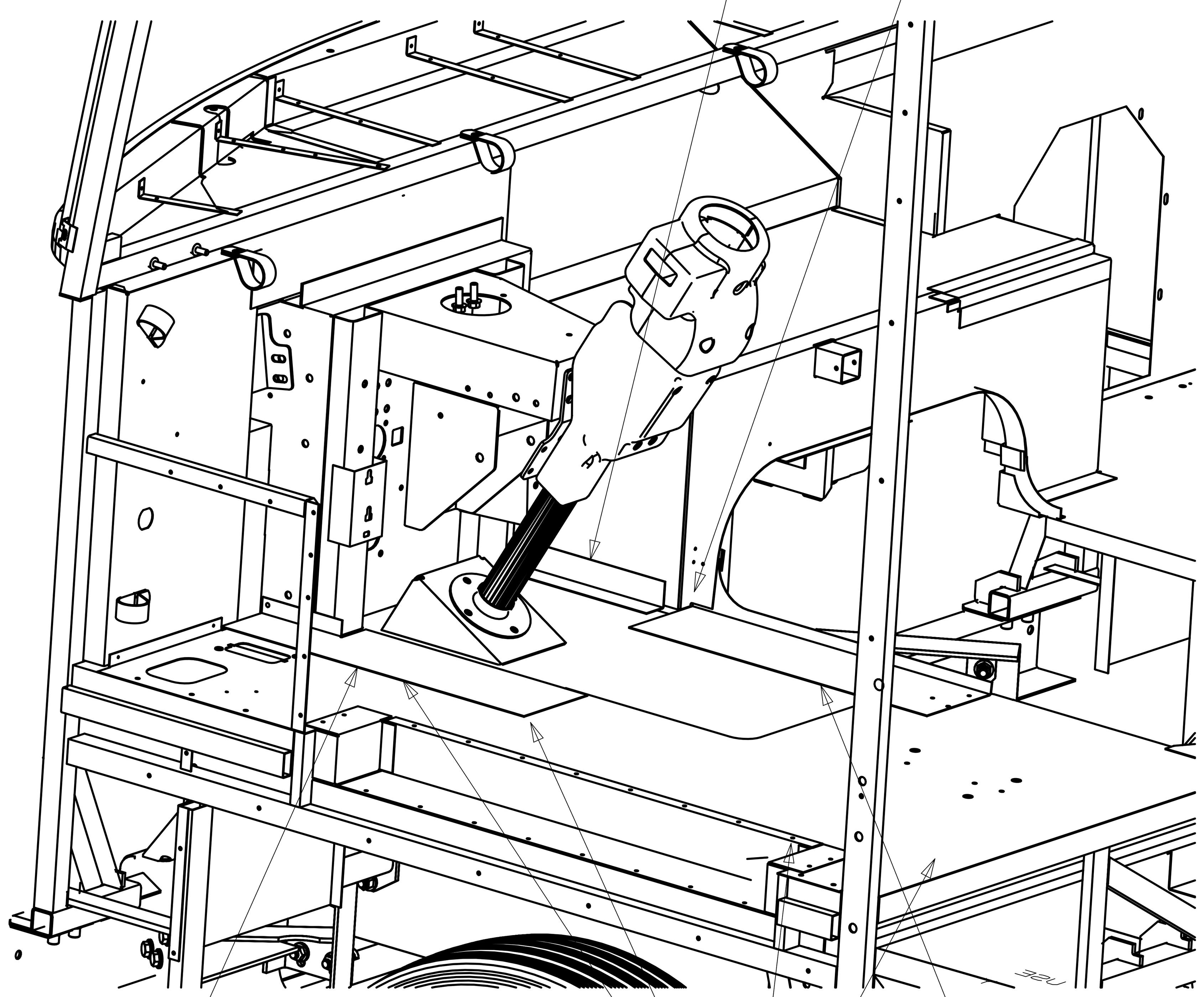
DO NOT SCALE DRAWING

TITLE: FRONT END/CHASSIS ASM

SHEET 2 | PART NO 168874 | REV

VIEW CB

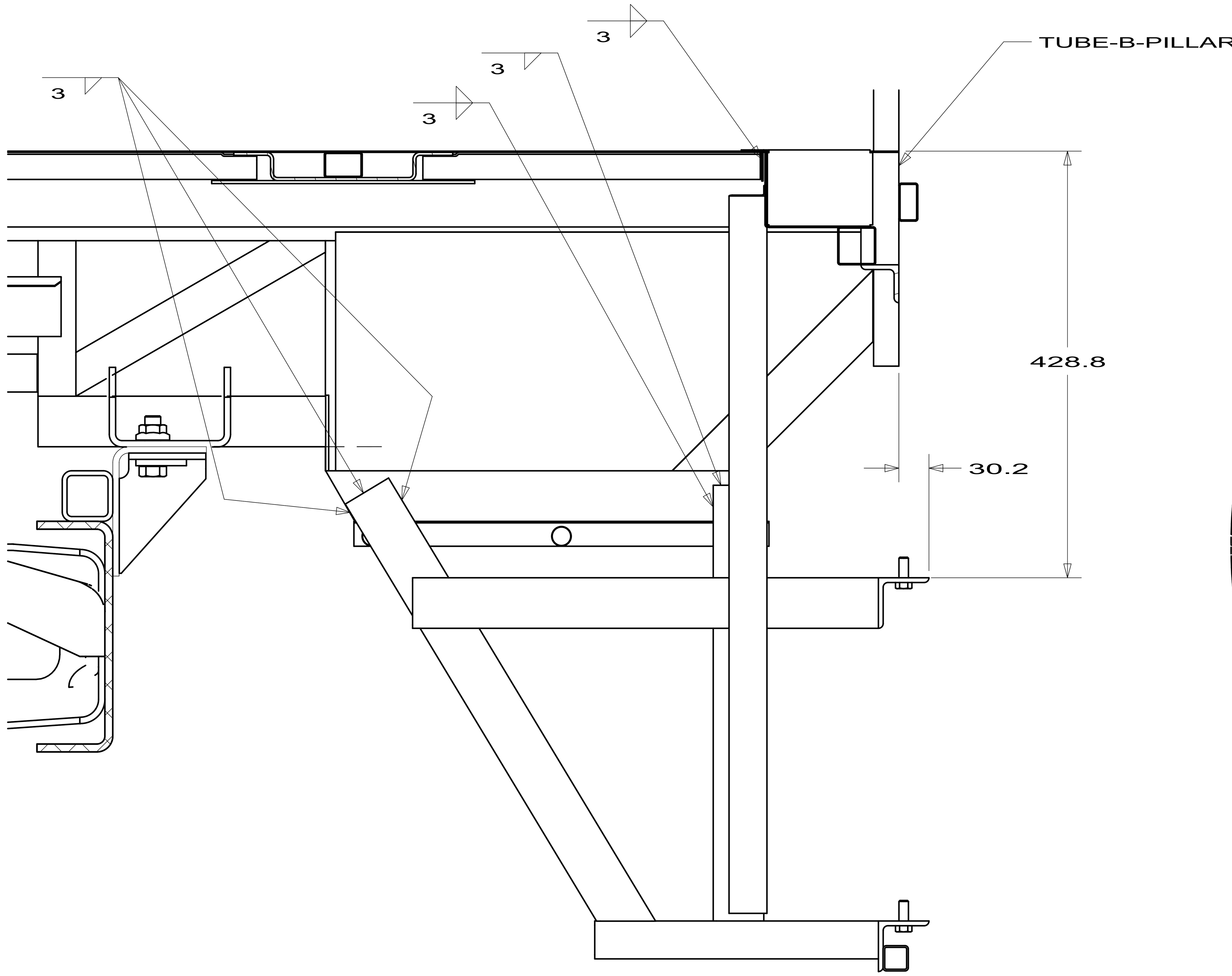


VIEW CC

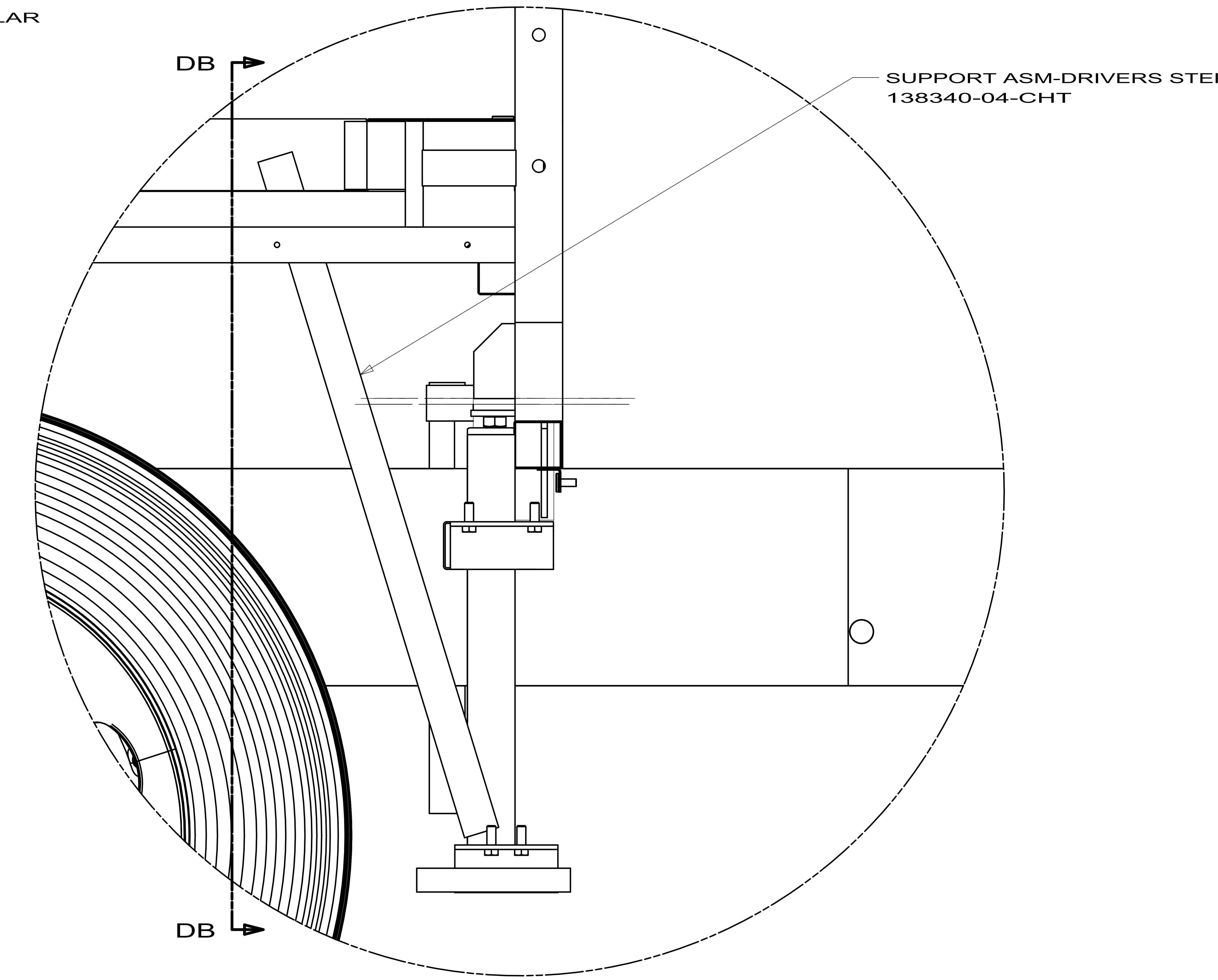
DWG NO 168874

FIRST USED	09 J-SER,FL
	DO NOT SCALE DRAWING
TITLE:	FRONT END/CHASSIS ASM
SHEET 3	PART NO 168874 REV

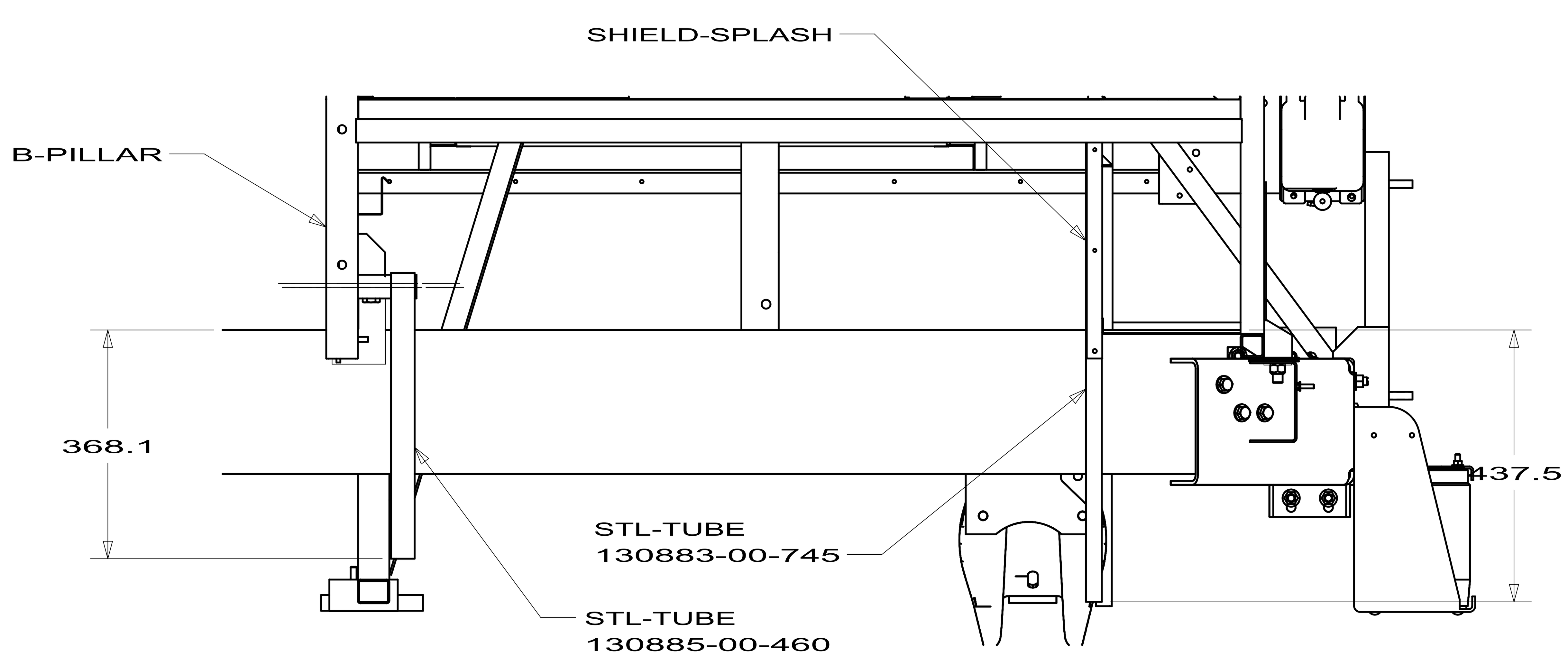
DWG NO 168874



SECTION DB-DB



DETAIL DA



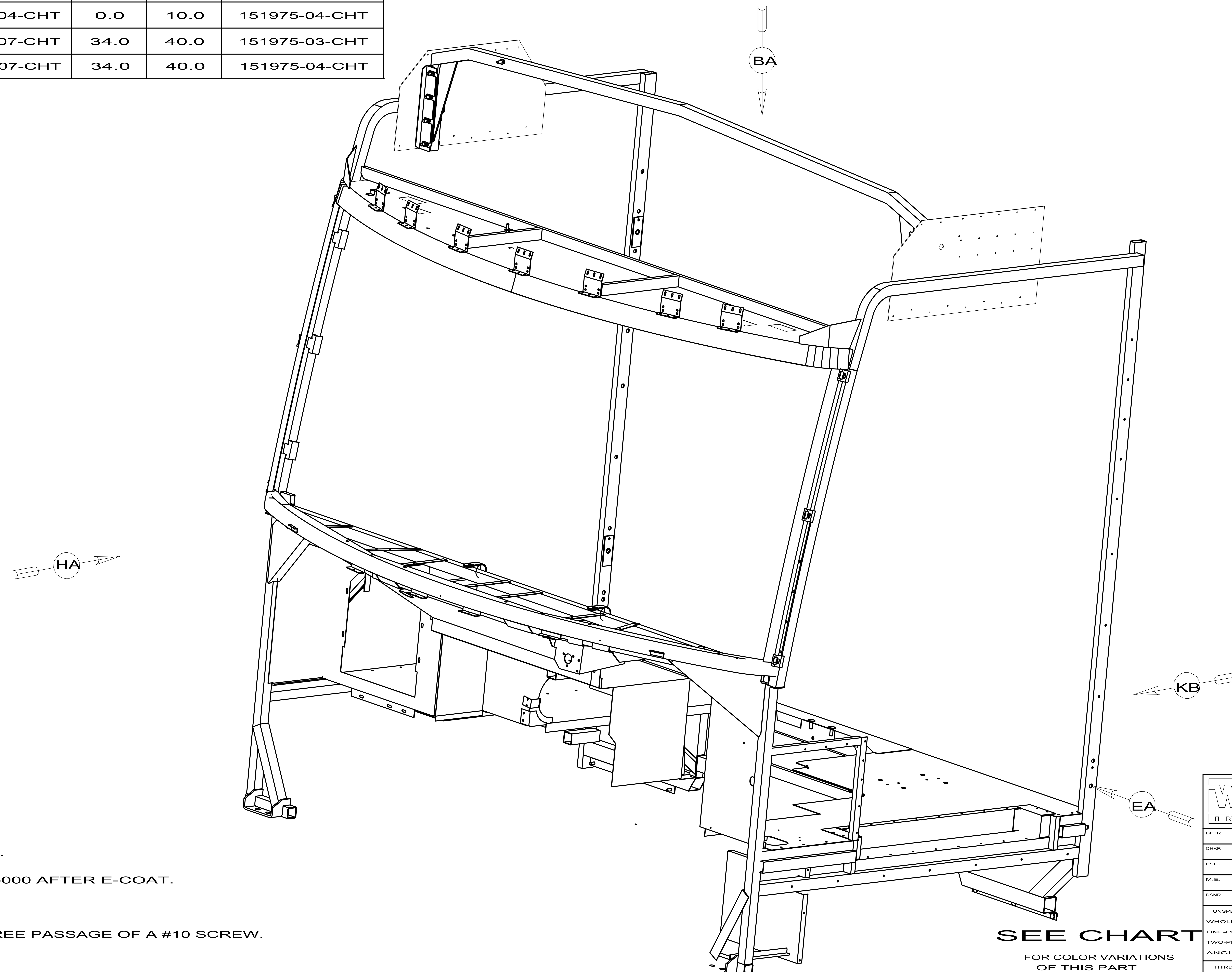
SECTION DC-DC

FIRST USED	09 J-SER,FL
DO NOT SCALE DRAWING	
TITLE:	FRONT END/CHASSIS ASM
SHEET 4	PART NO 168874

DWG NO	TUBE-TOP,LH	PLATE ASM-LH	A	B	SUPPORT ASM-TV
168875-01	117344-10-CHT	150653-07-CHT	34.0	40.0	151975-02-CHT
168875-02	117344-05-CHT	150653-04-CHT	0.0	10.0	151975-02-CHT
168875-03	117344-05-CHT	150653-04-CHT	0.0	10.0	151975-03-CHT
168875-04	117344-05-CHT	150653-04-CHT	0.0	10.0	151975-04-CHT
168875-05	117344-10-CHT	150653-07-CHT	34.0	40.0	151975-03-CHT
168875-06	117344-10-CHT	150653-07-CHT	34.0	40.0	151975-04-CHT

RELEASE REV A DATE DWG NO 168875

REV	ZONE	REVISION RECORD	DATE	DFTR-ORIG



28F FRONT SHADE-POWERED

SEE CHART

FOR COLOR VARIATIONS OF THIS PART

7. TORQUE BOLT TO 34 FT-LBS.

6. SEAL WITH SEALANT 110744-C3-000 AFTER E-COAT.

5. ALIGN HOLES.

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

3. MUST BE FLUSH WITHIN ± 1.5.

2. ATTACH AFTER E-COAT.

1. CLEAN, E-COAT AND SEAL CAB WITH 143201-01-000.

NOTES:

INDICATES CRITICAL SAFETY PROCEDURE TO BE FOLLOWED

WINNEBAGO INDUSTRIES

DFTR

ORIG. DATE

CHKR

P.E.

ALL DIMENSIONS ARE IN MILLIMETERS

M.E.

FIRST USED

DSNR

09 J-SER,FL

UNSPECIFIED TOLERANCES ARE:

WHOLE DIM (X) : 3

ONE-PLACE (X.X) : 1.5

TWO-PLACE (X.XX) : 0.50

ANGLE : 1°

THIRD ANGLE PROJECTION

MATERIAL:

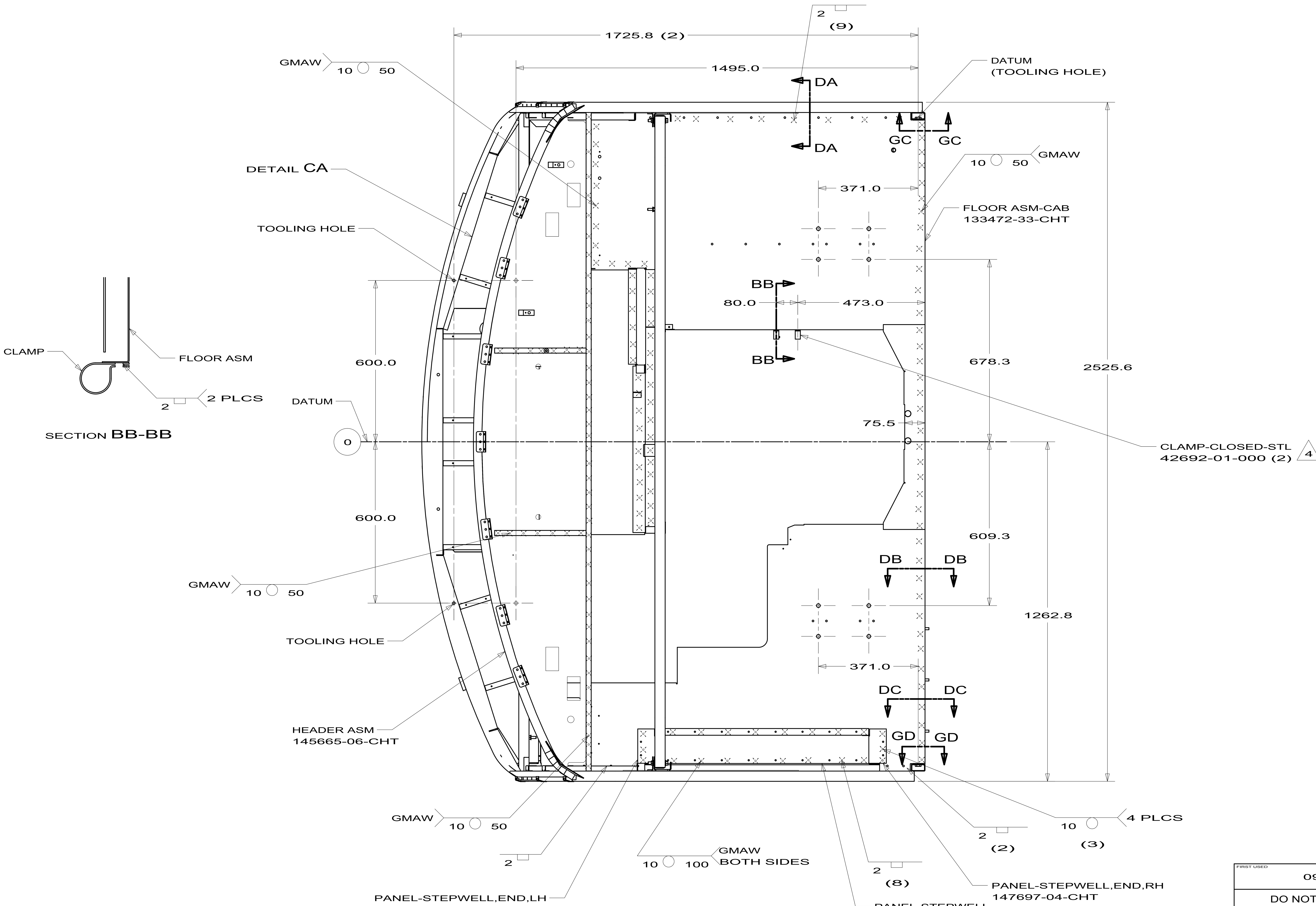
DO NOT SCALE DRAWING

TITLE: FRONT END ASM

SHEET 1 OF 10 PART NO 168875 REV

REF:

2/19/2010



SECTION BB-BB

VIEW BA

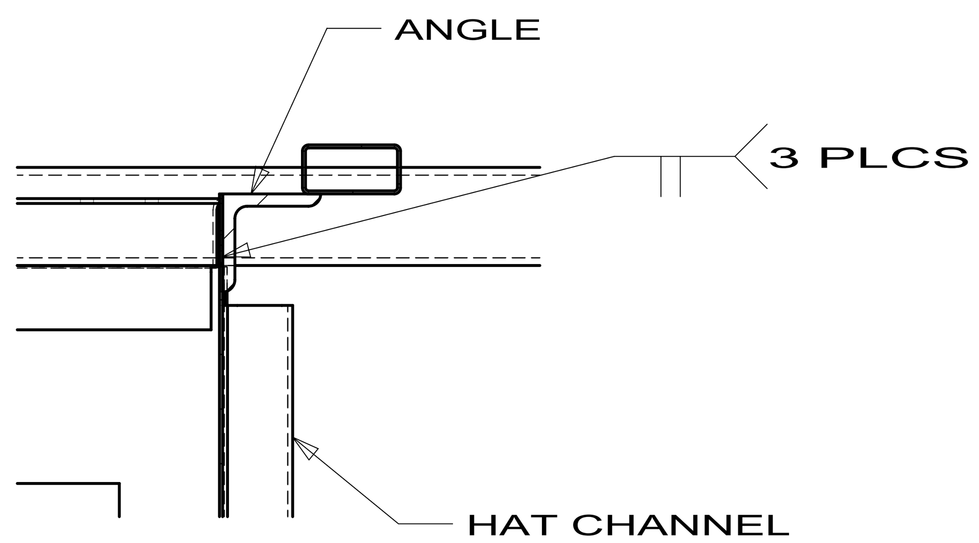
FIRST USED	09 J-SER,FL
	DO NOT SCALE DRAWING
TITLE:	FRONT END ASM
SHEET 2	PART NO 168875 REV

2/19/2010

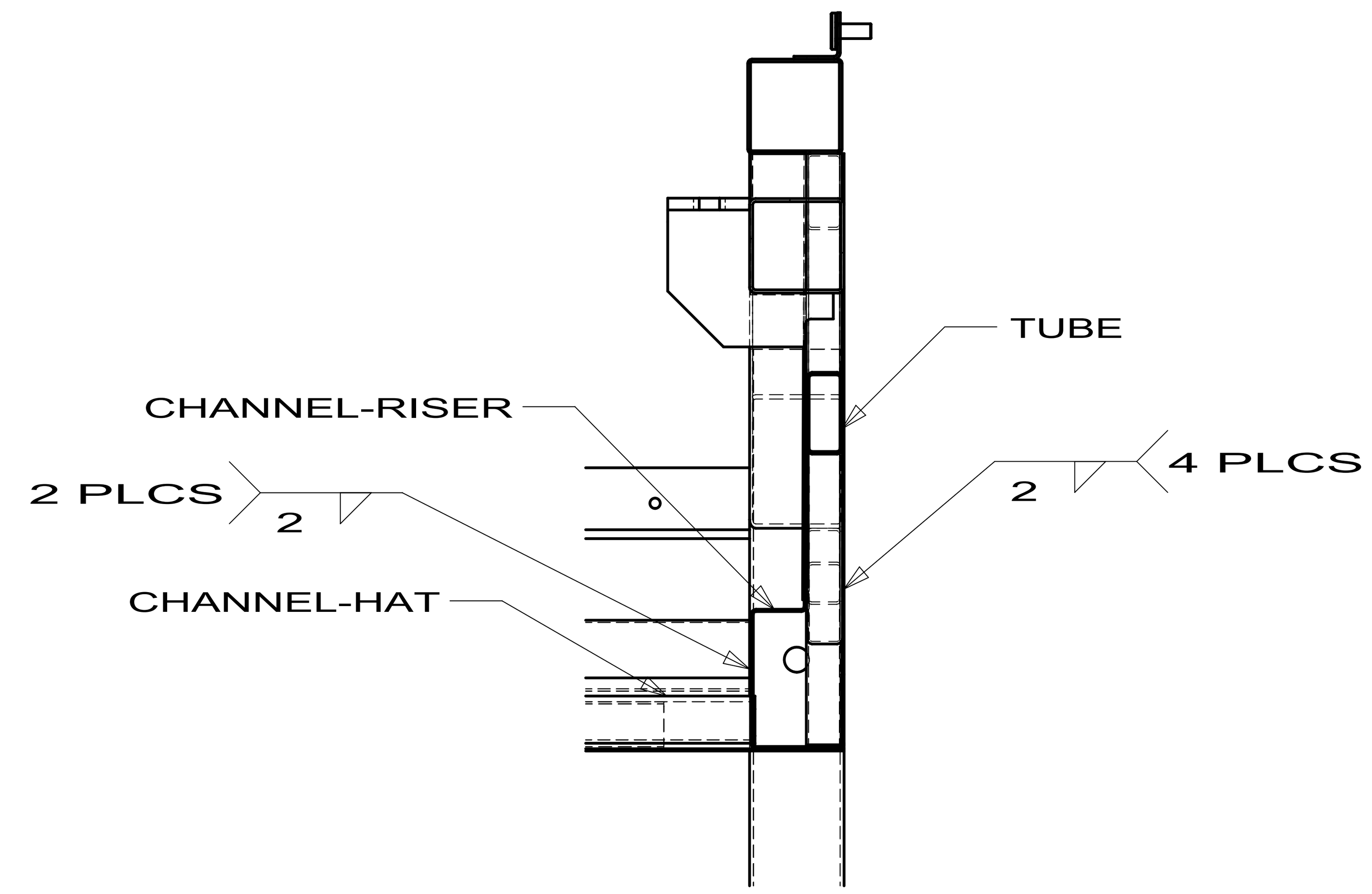
DWG NO 168875

FIRST USED	09 J-SER,FL
	DO NOT SCALE DRAWING
TITLE:	FRONT END ASM
SHEET 3	PART NO 168875 REV

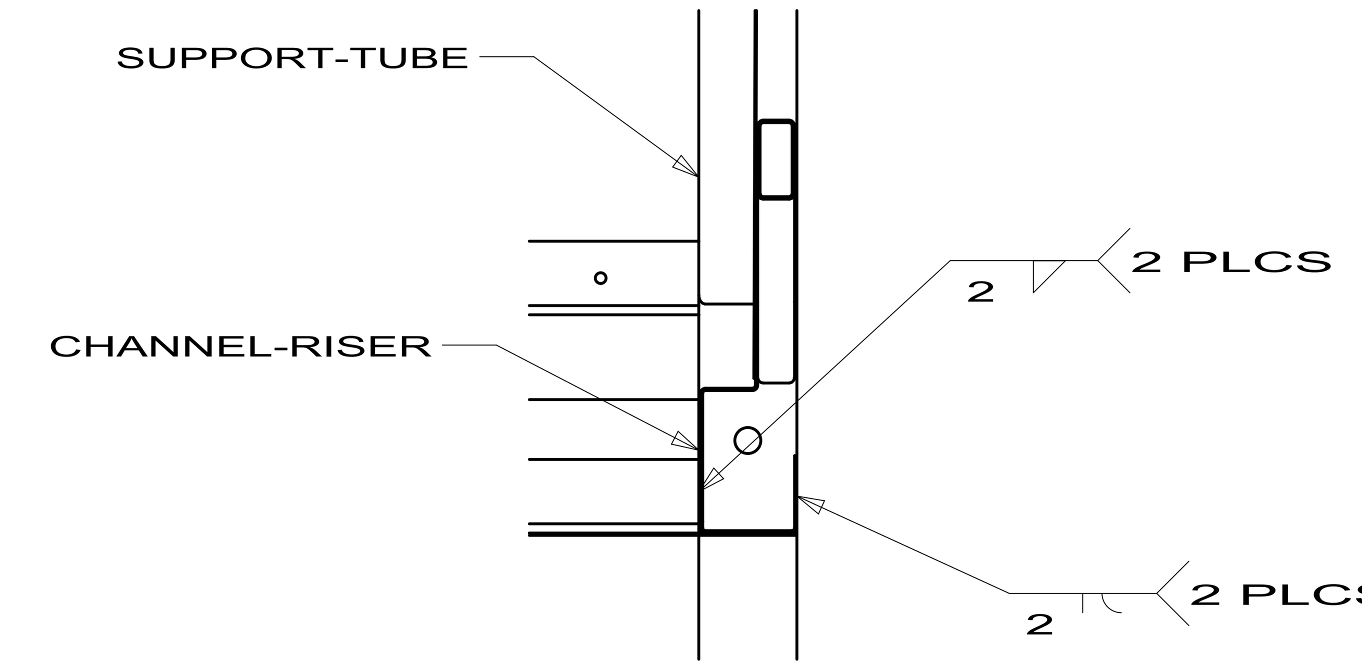
2/19/2010



SECTION DA-DA



SECTION DB-DB



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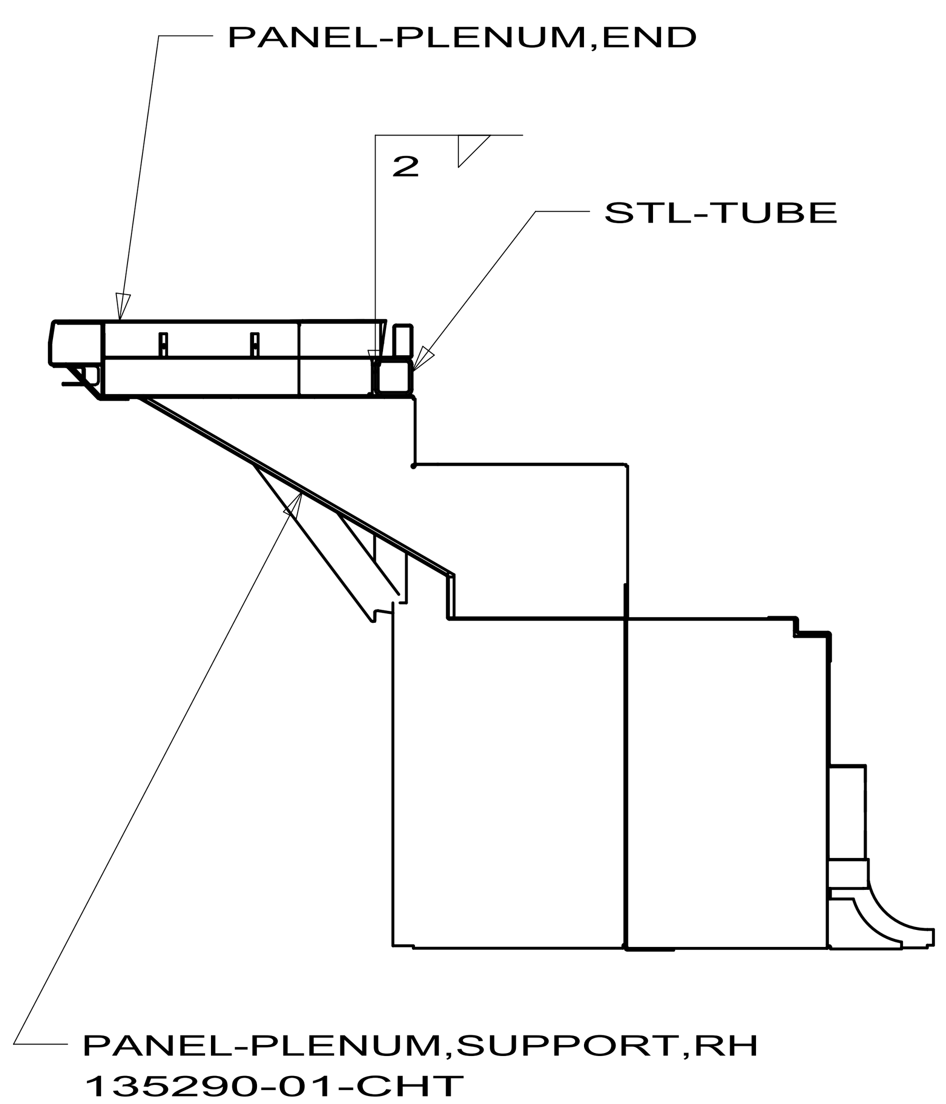
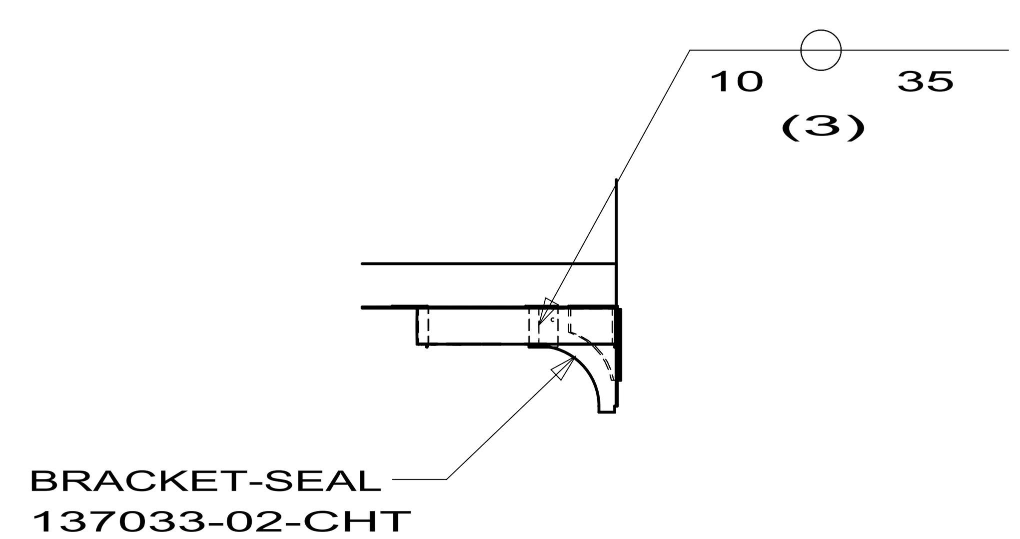


SECTION DD-DD



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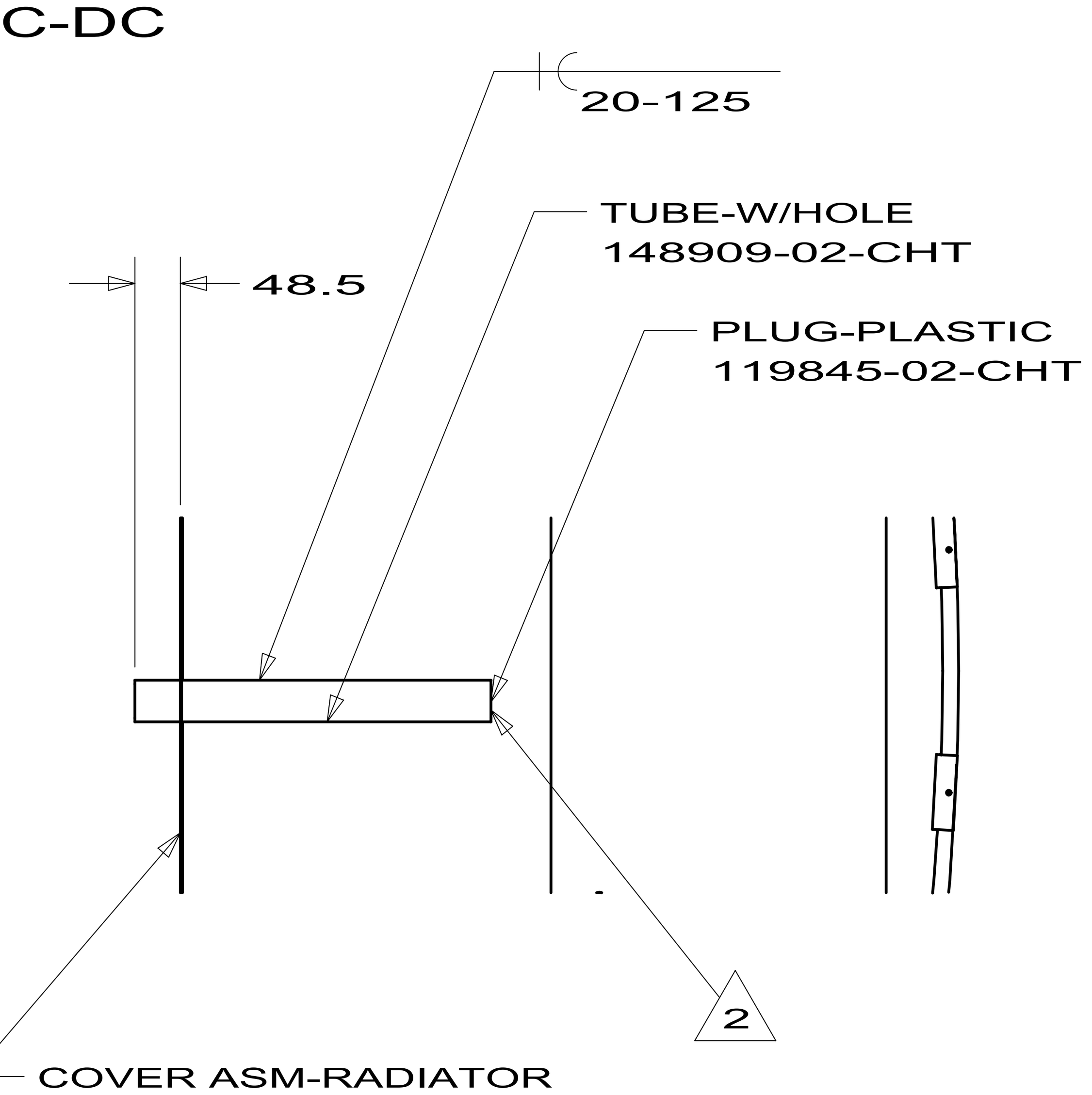

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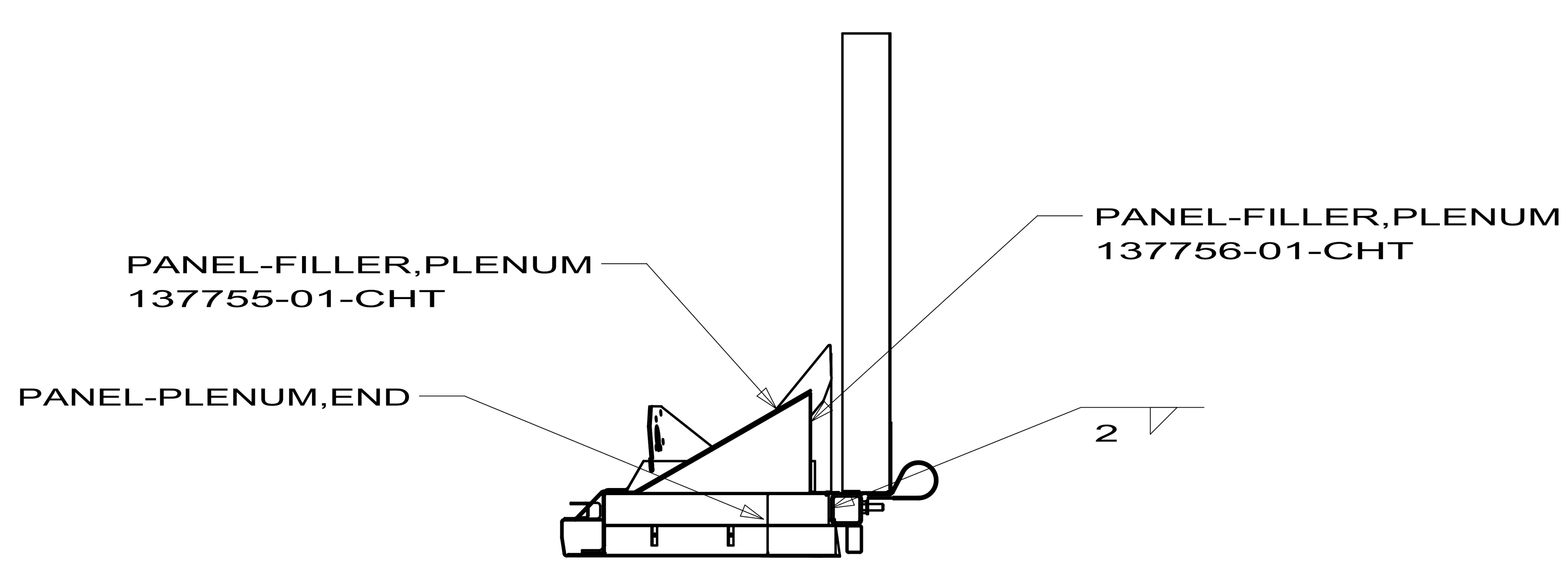
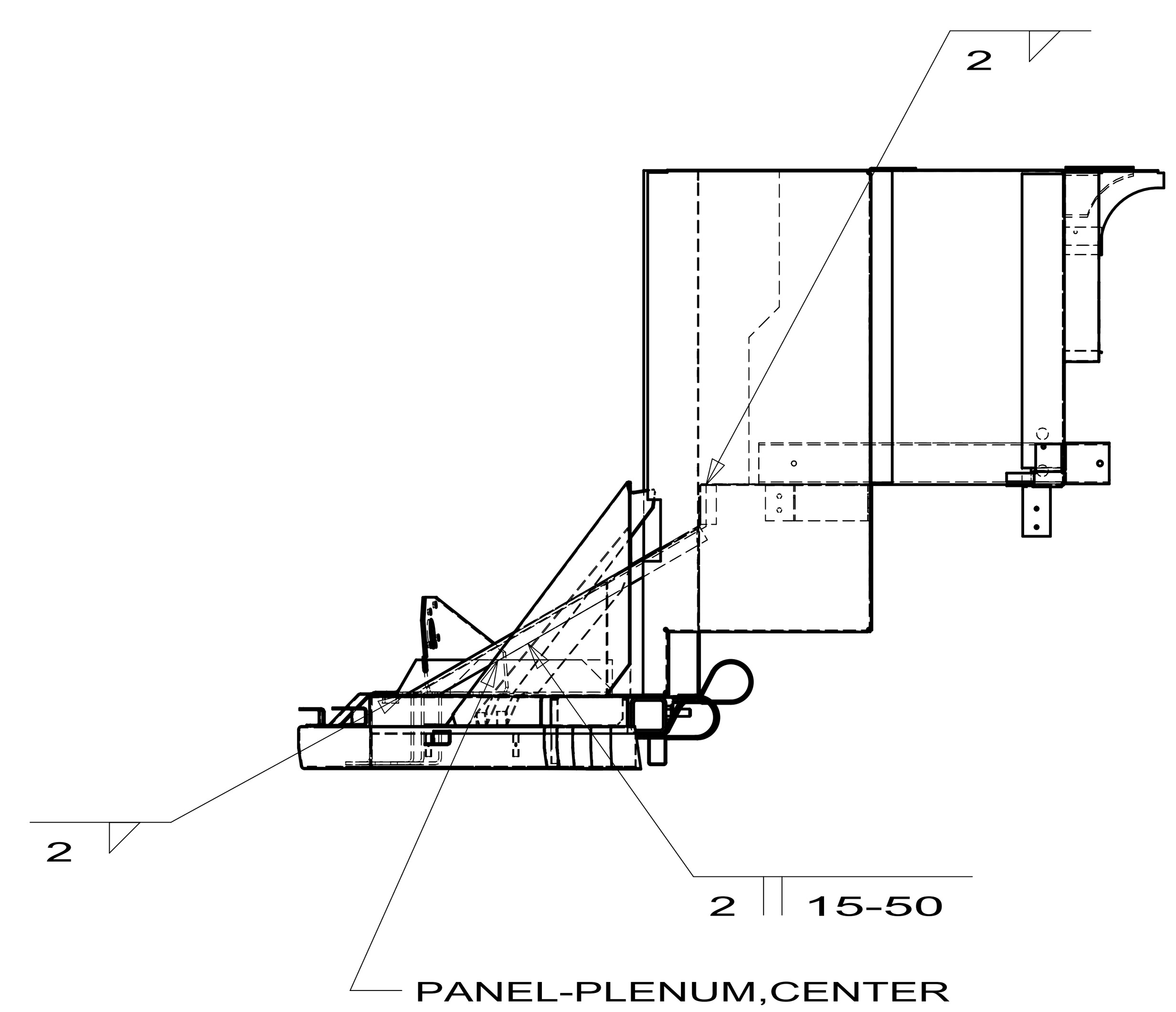
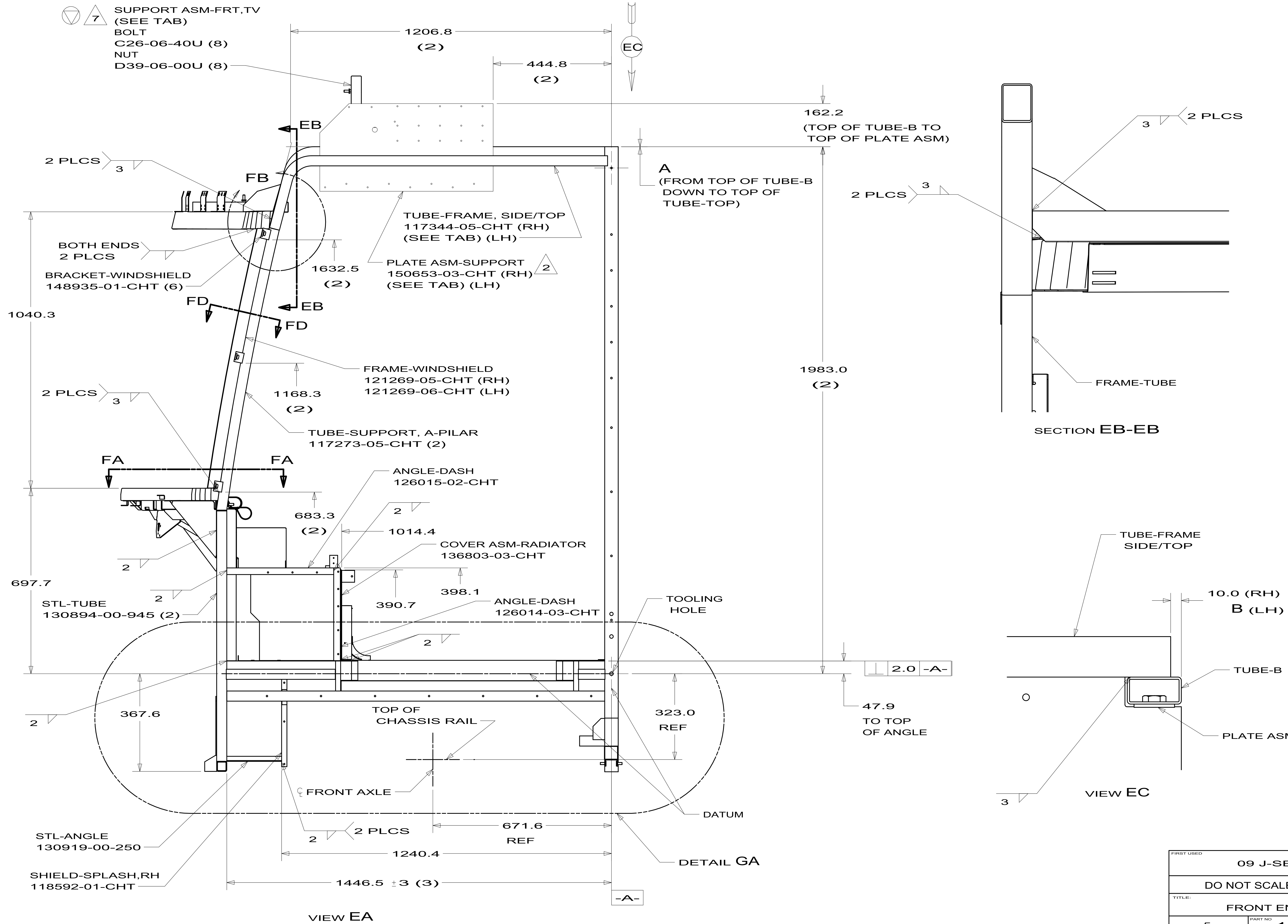


SECTION DE-DE



VIEW DG

FIRST USED	09 J-SER,FL
	DO NOT SCALE DRAWING
TITLE:	FRONT END ASM
SHEET 4	PART NO 168875 REV

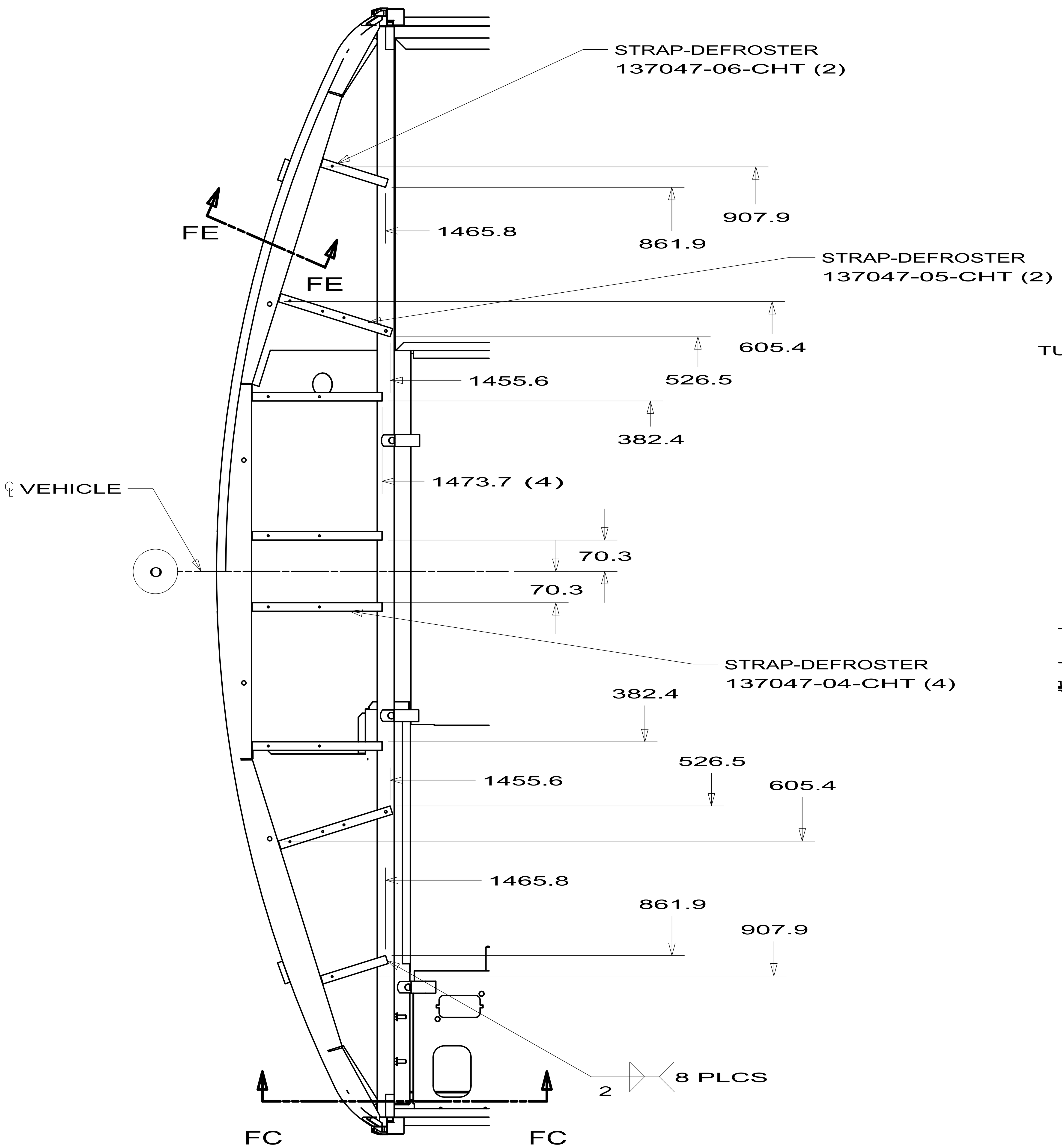


DWG NO 168875

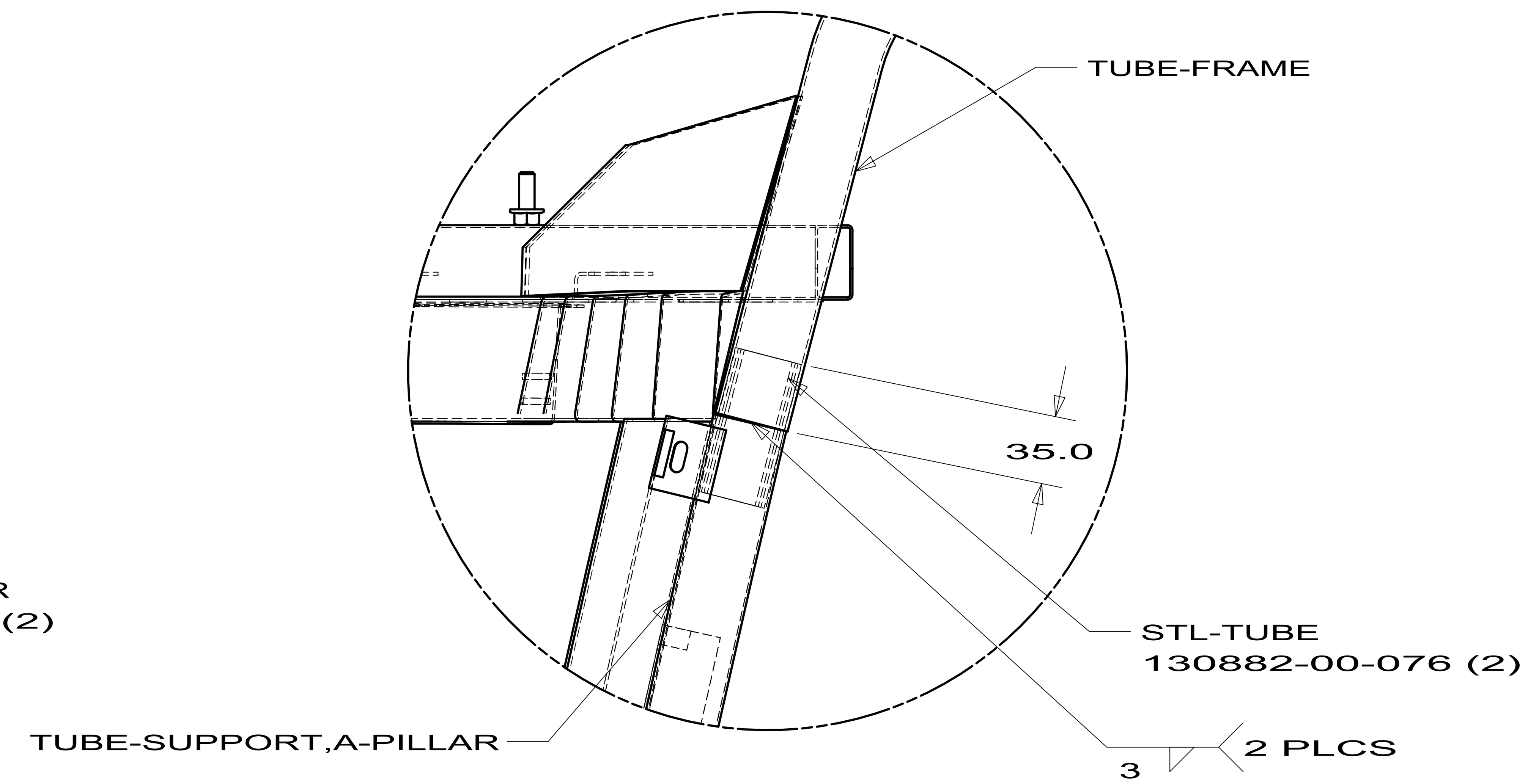
FIRST USED	09 J-SER,FL
DO NOT SCALE DRAWING	
TITLE:	FRONT END ASM
SHEET 5	PART NO 168875 REV

2/19/2010

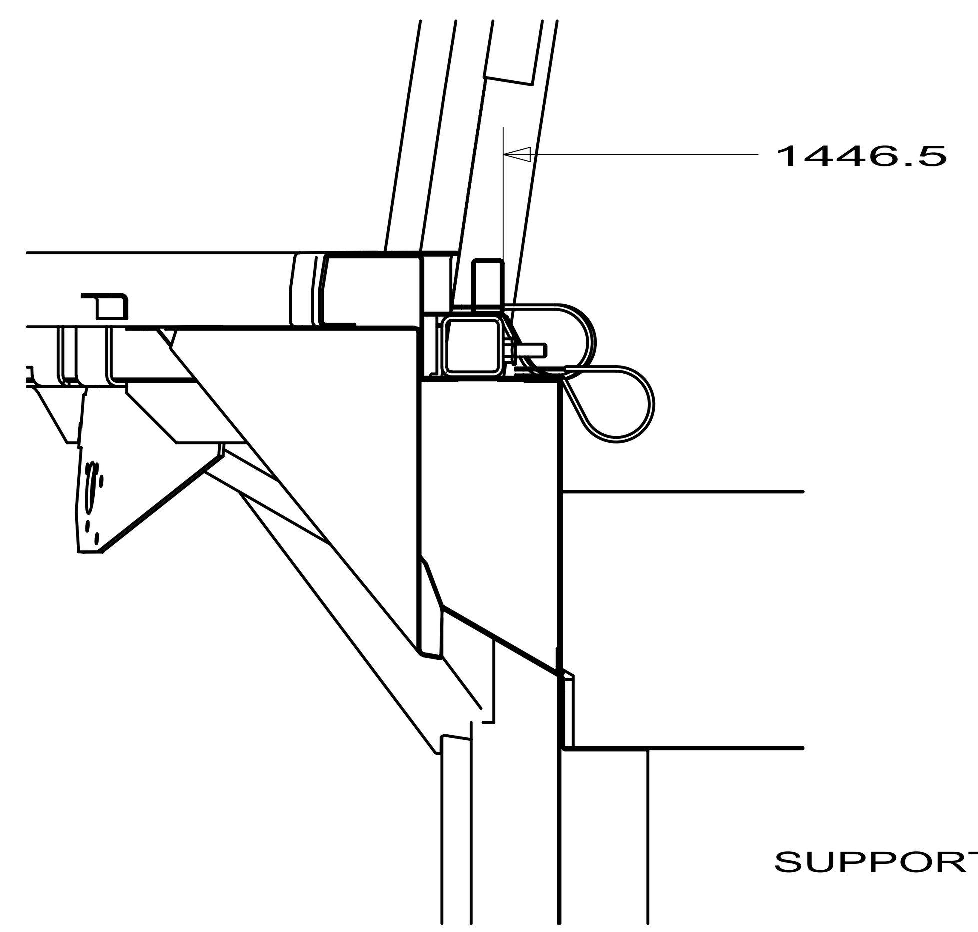
DWG NO 168875



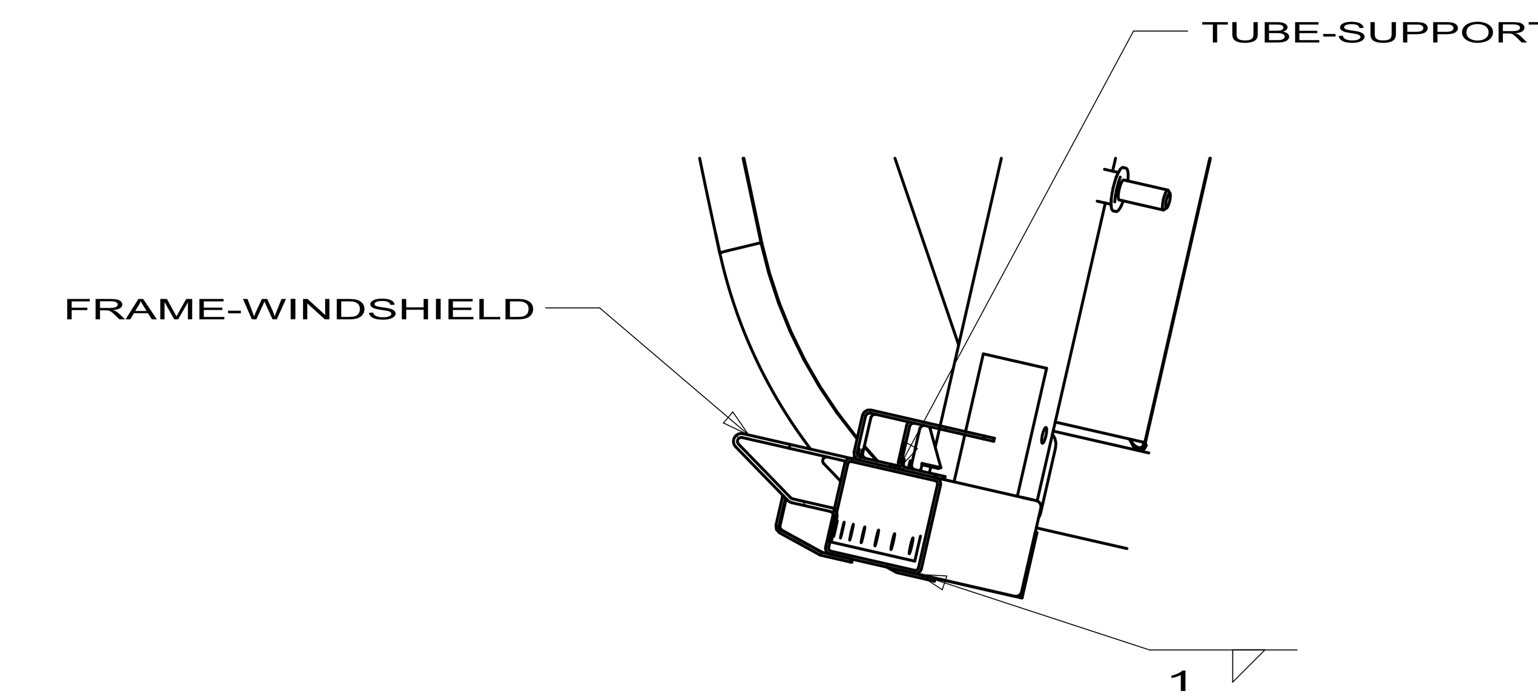
SECTION FA-FA



DETAIL FB



SECTION FC-FC



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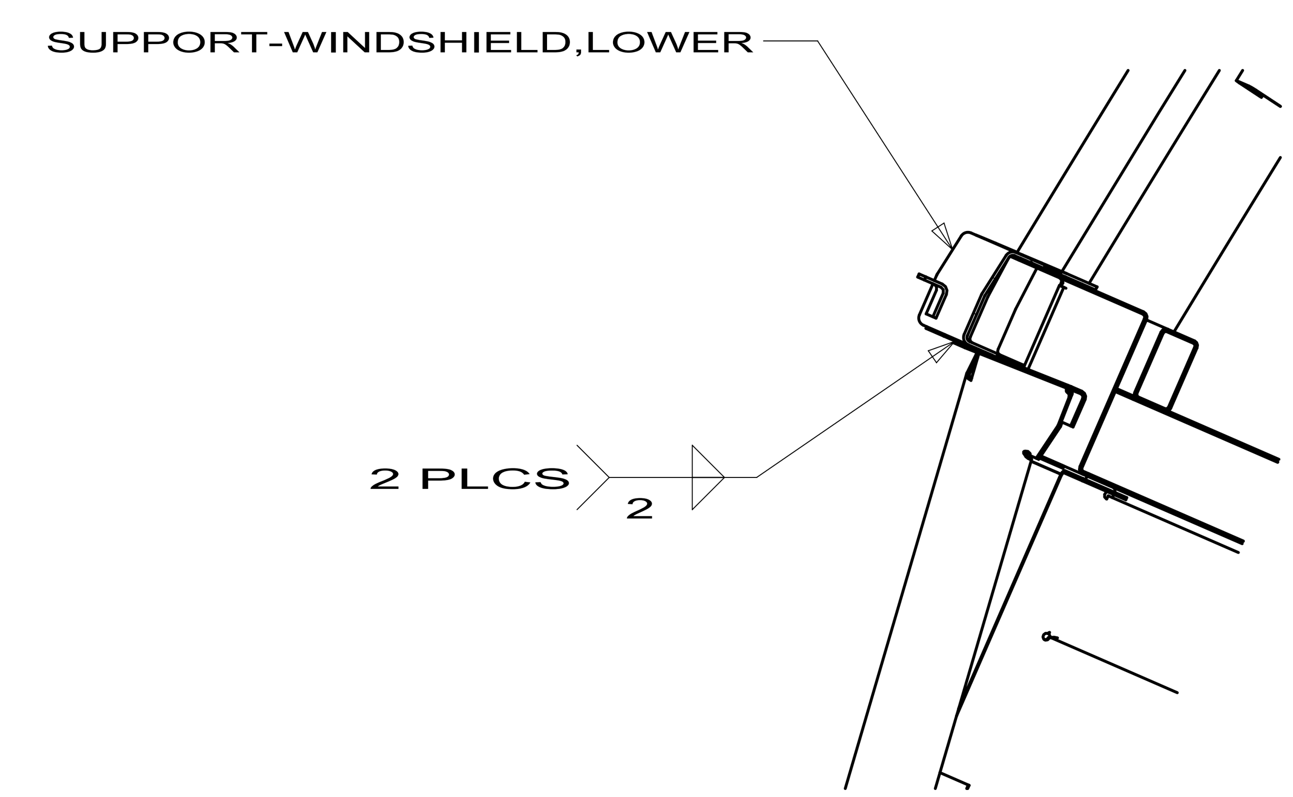
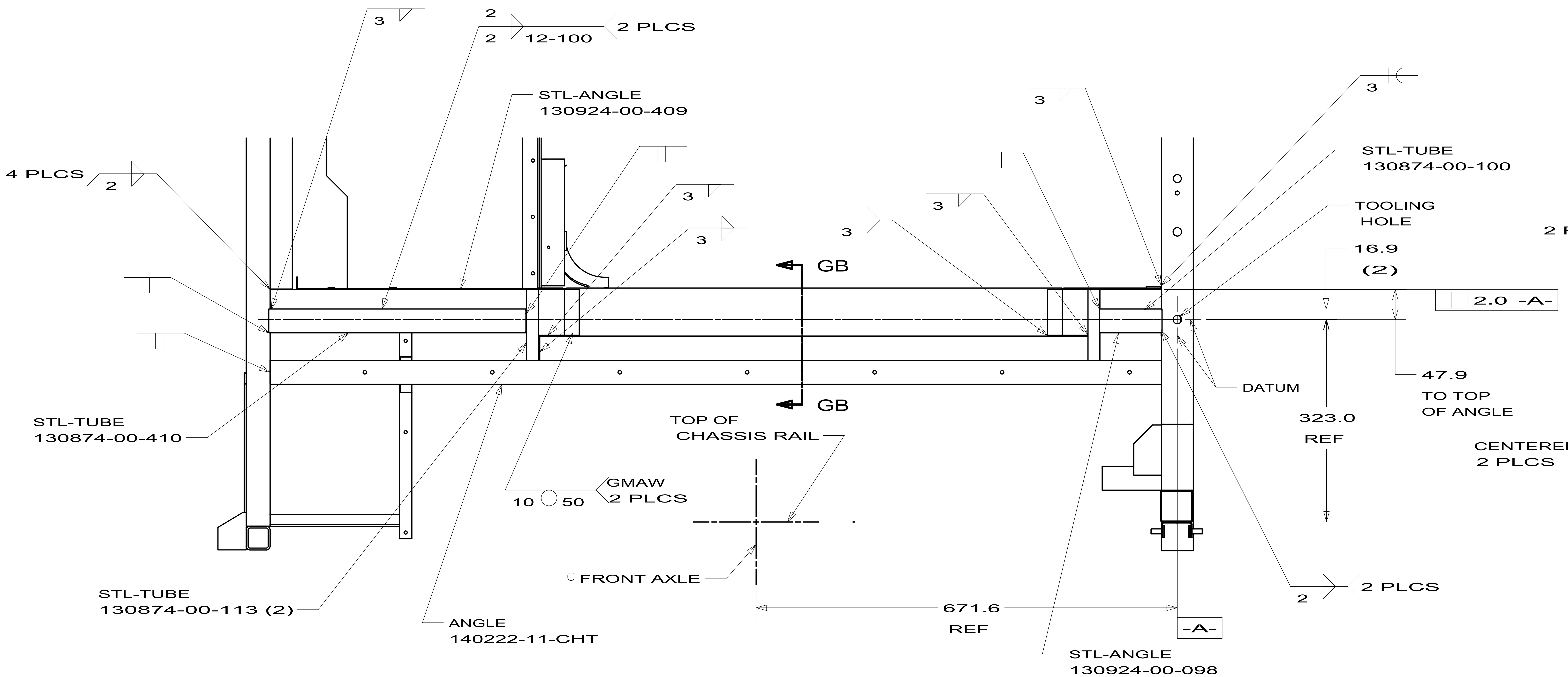


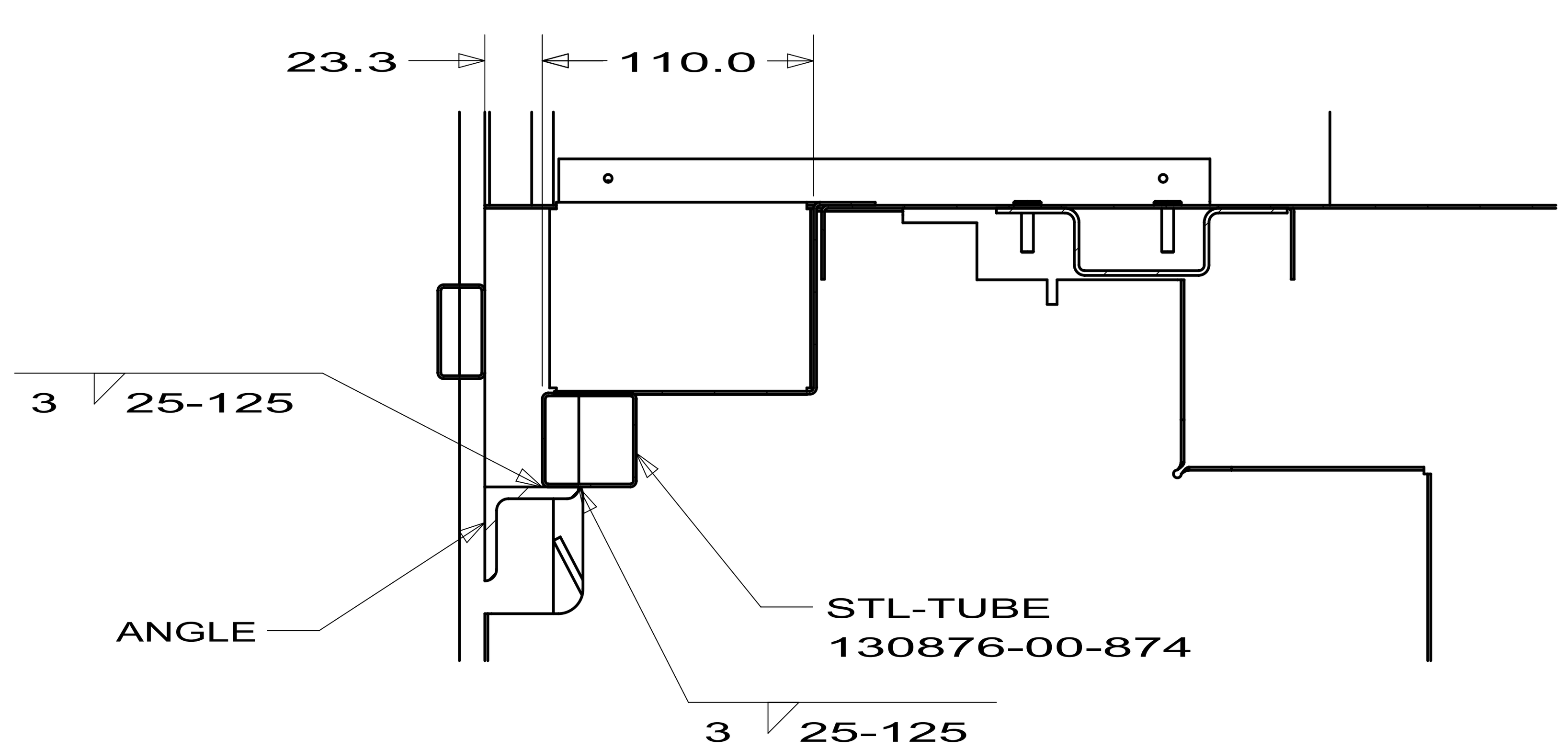
SECTION FE-FE

FIRST USED	09 J-SER,FL
	DO NOT SCALE DRAWING
TITLE:	FRONT END ASM
SHEET 6	PART NO 168875 REV

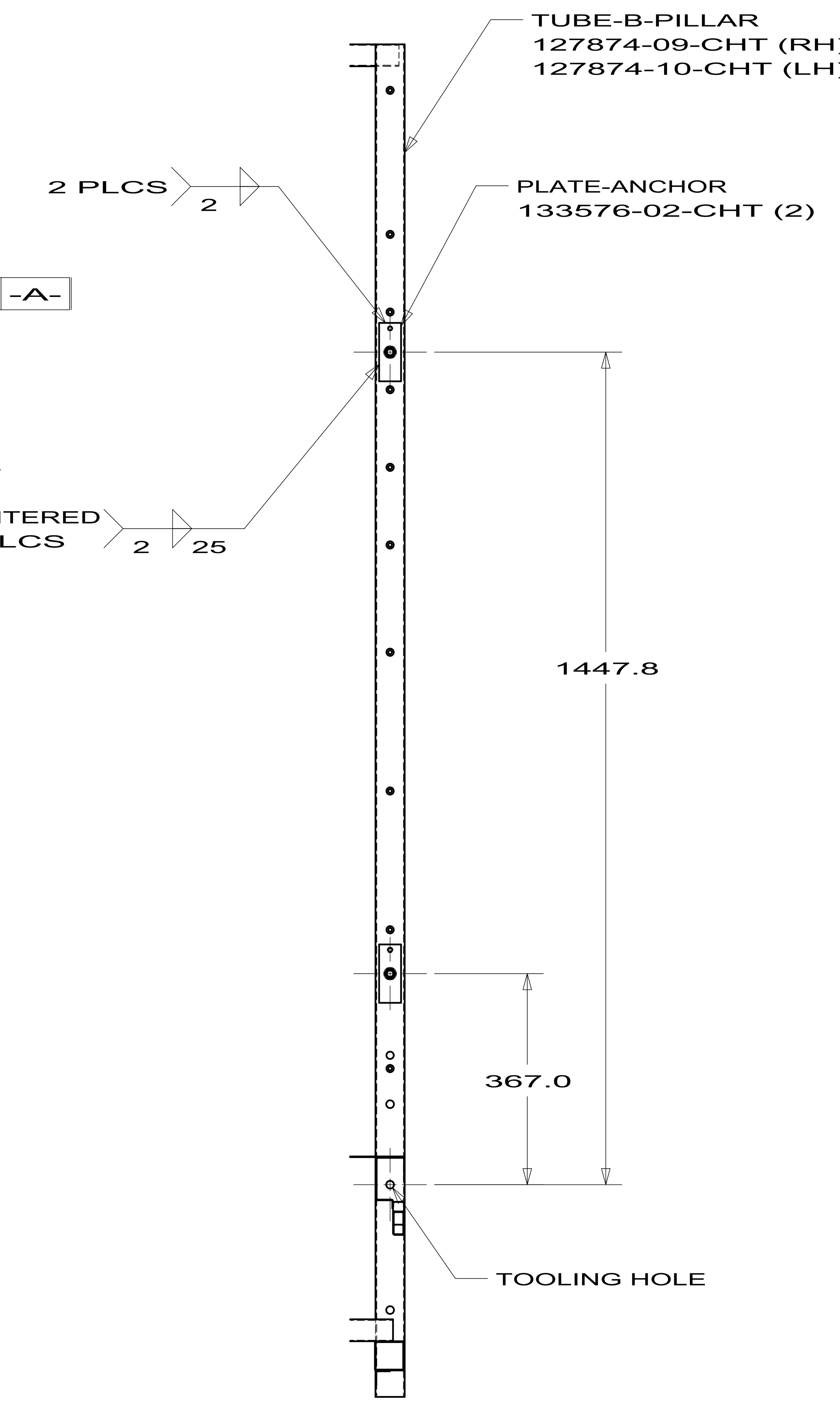
2/19/2010



DETAIL GA



SECTION GB-GB



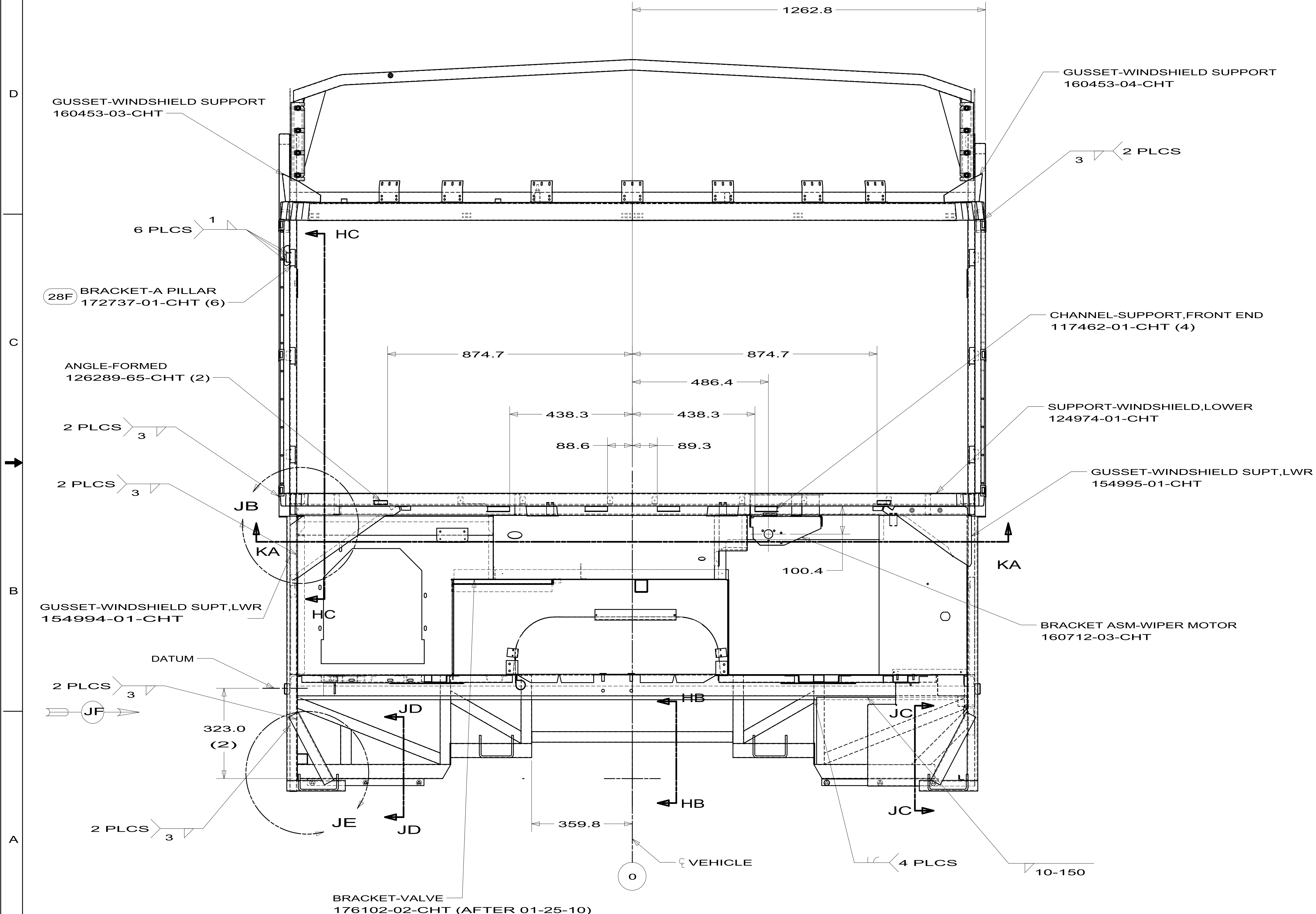
SECTION GC-GC
(SHOWN)
SECTION GD-GD
(OPPOSITE)

FIRST USED	09 J-SER,FL
DO NOT SCALE DRAWING	
TITLE:	FRONT END ASM
SHEET 7	PART NO 168875 REV

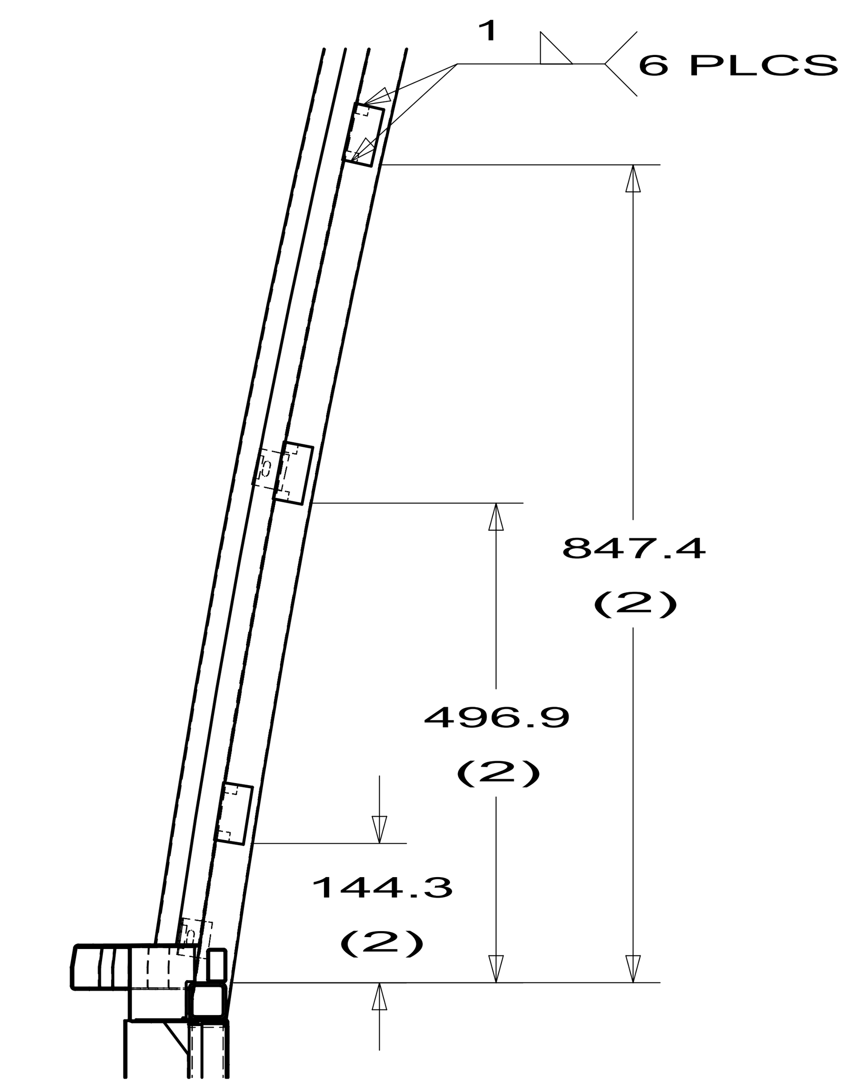
DWG NO 168875

2/19/2010

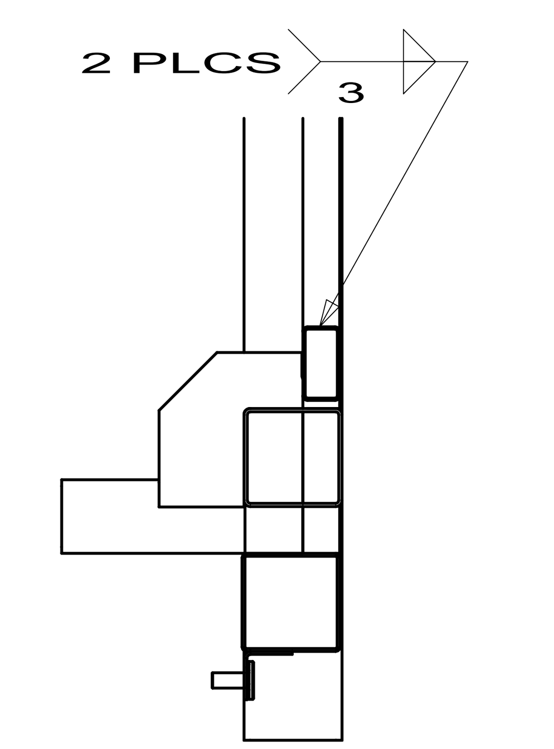
DWG NO 168875



VIEW HA



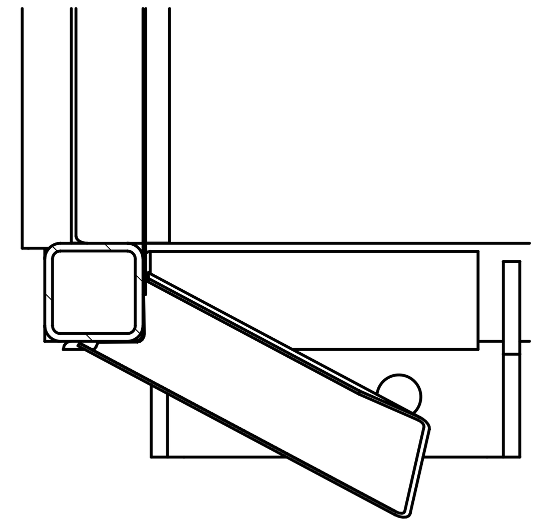
SECTION HC-HC



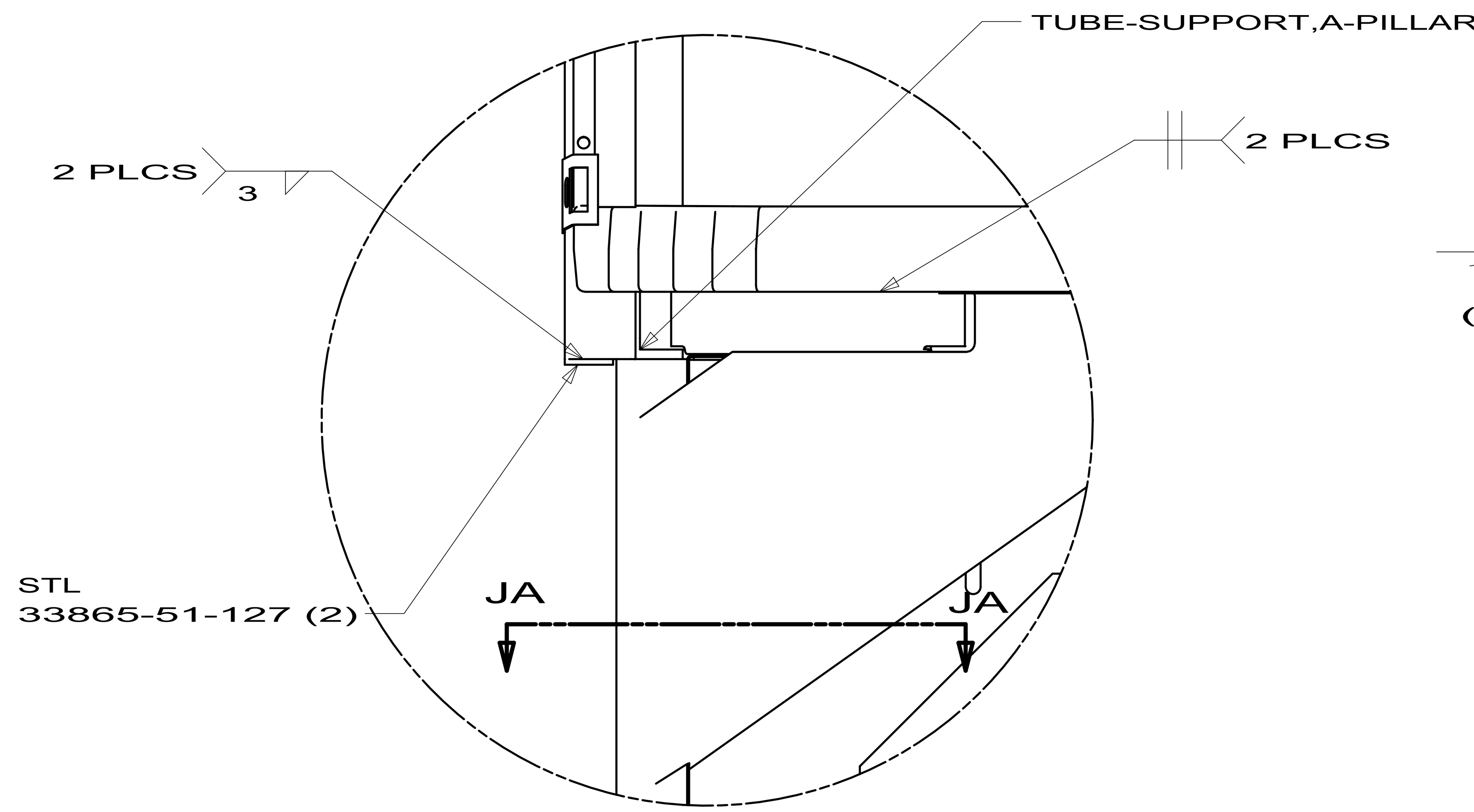
SECTION HB-HB

FIRST USED	09 J-SER,FL
	DO NOT SCALE DRAWING
TITLE:	FRONT END ASM
SHEET 8	PART NO 168875 REV

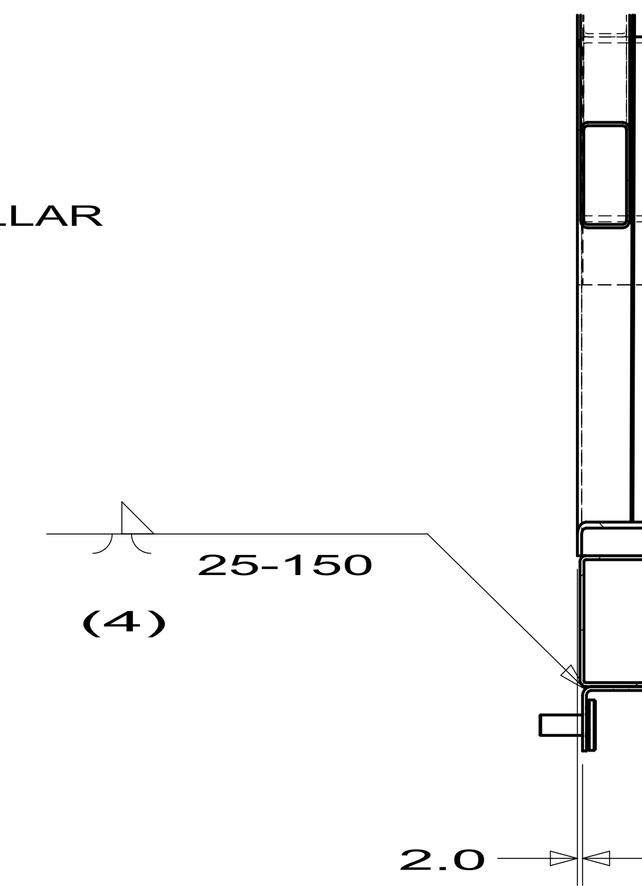
3/4/2010



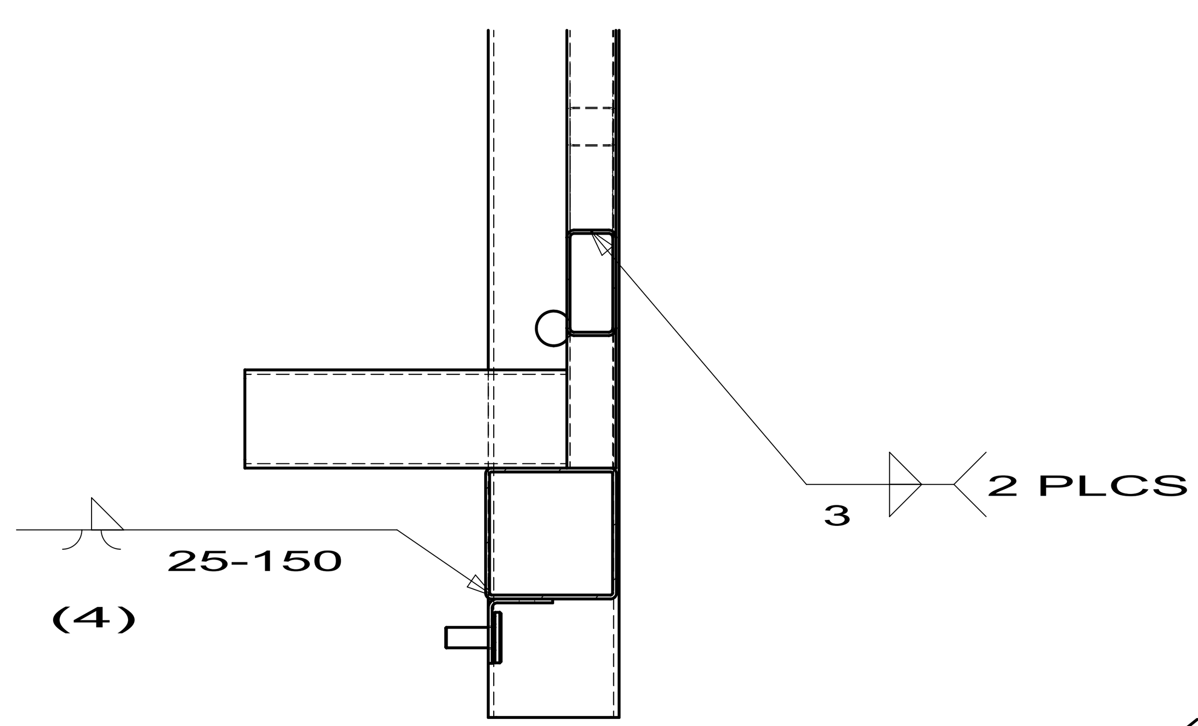
SECTION JA-JA



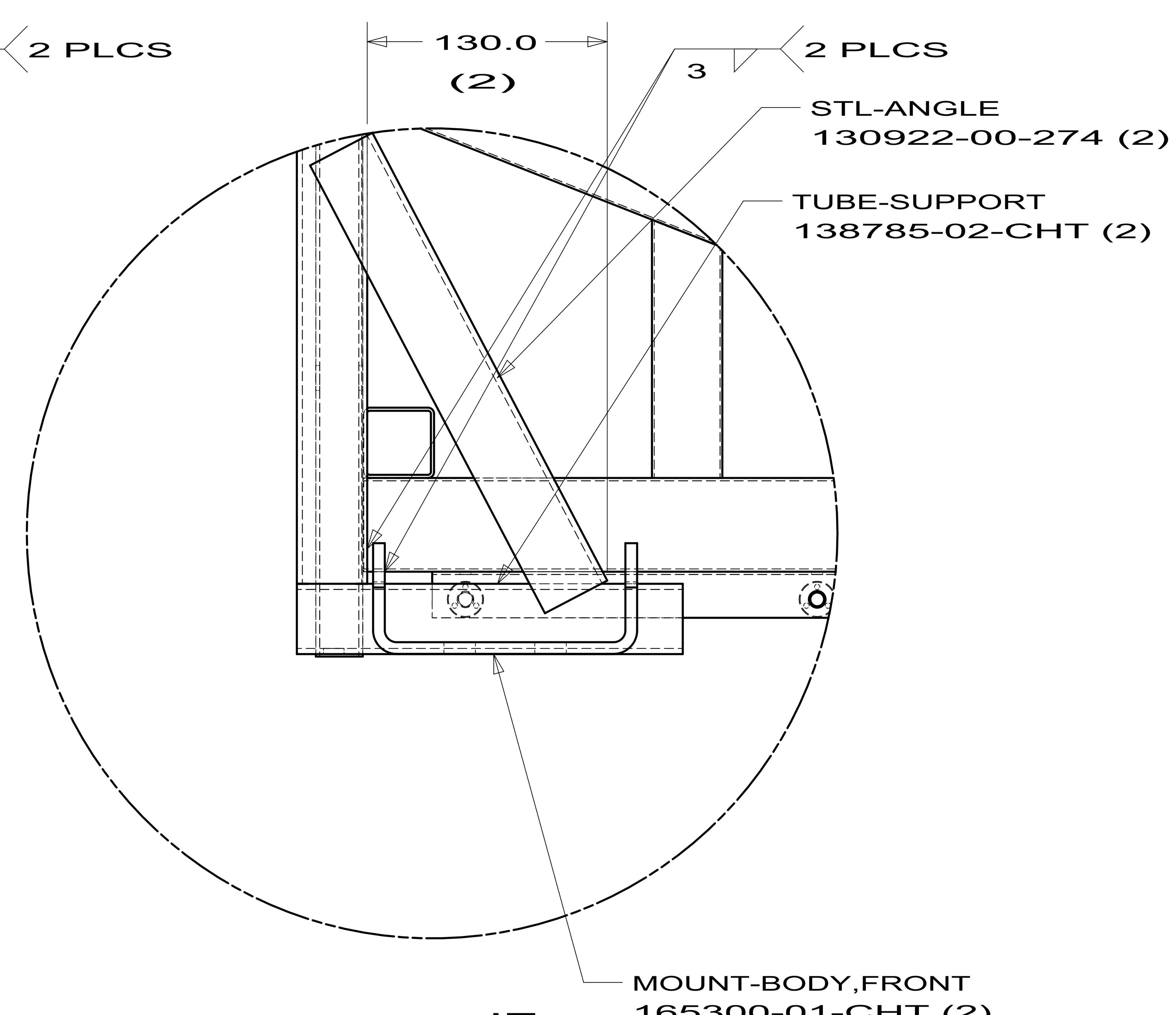
DETAIL JB



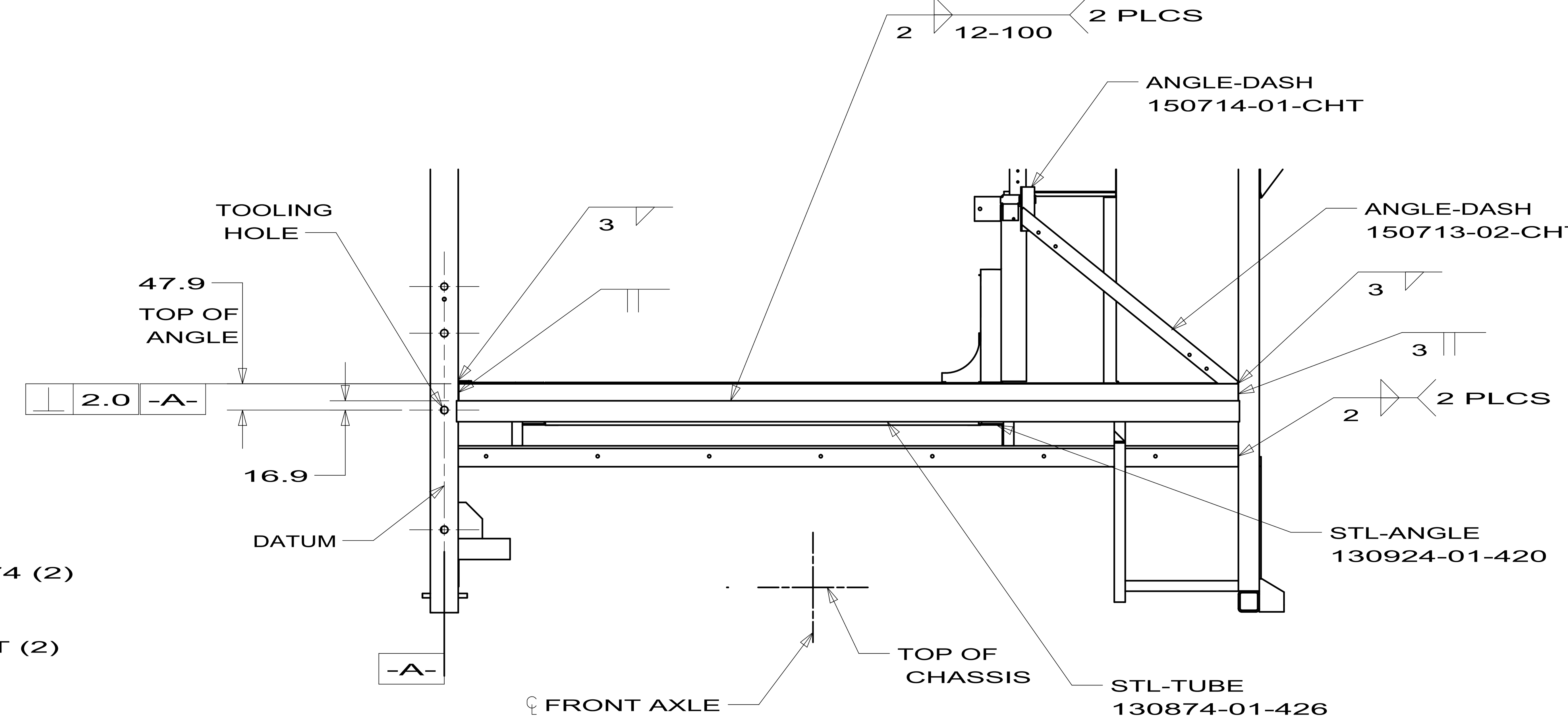
SECTION JC-JC



SECTION JD-JD



DETAIL JE

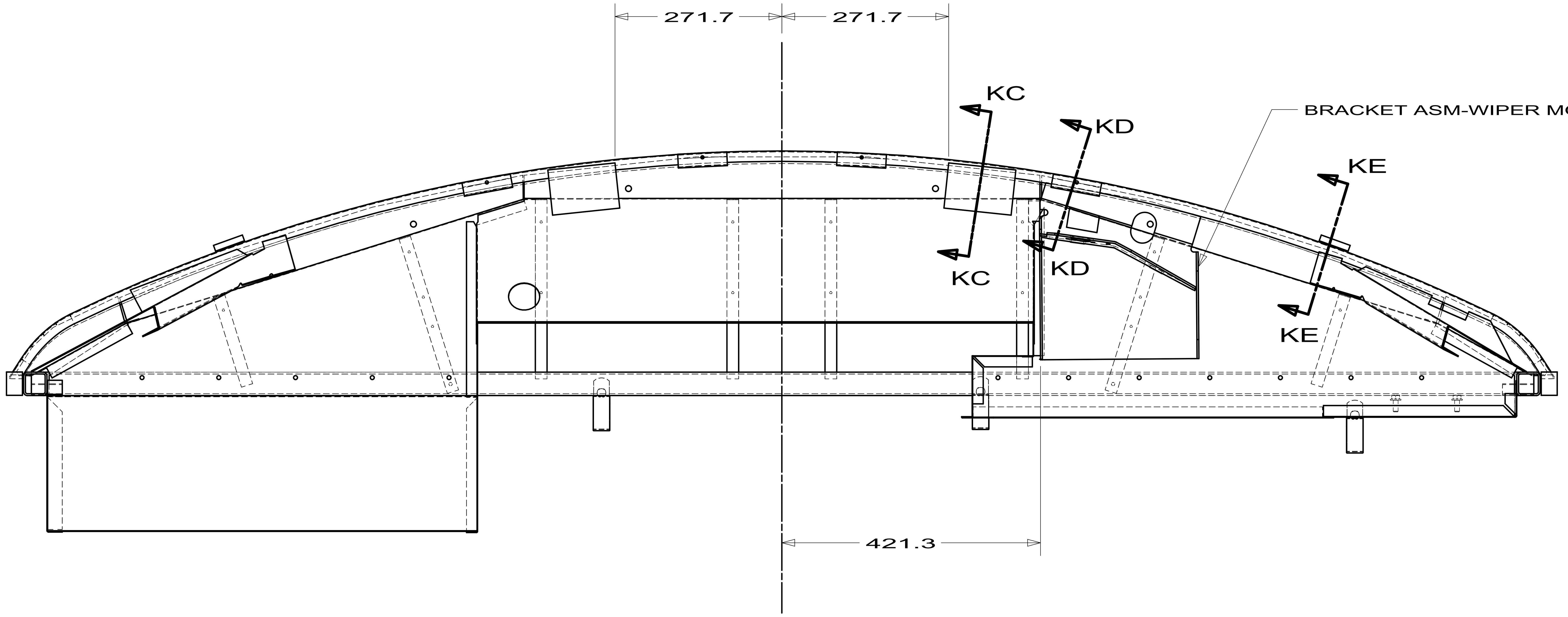


VIEW JF

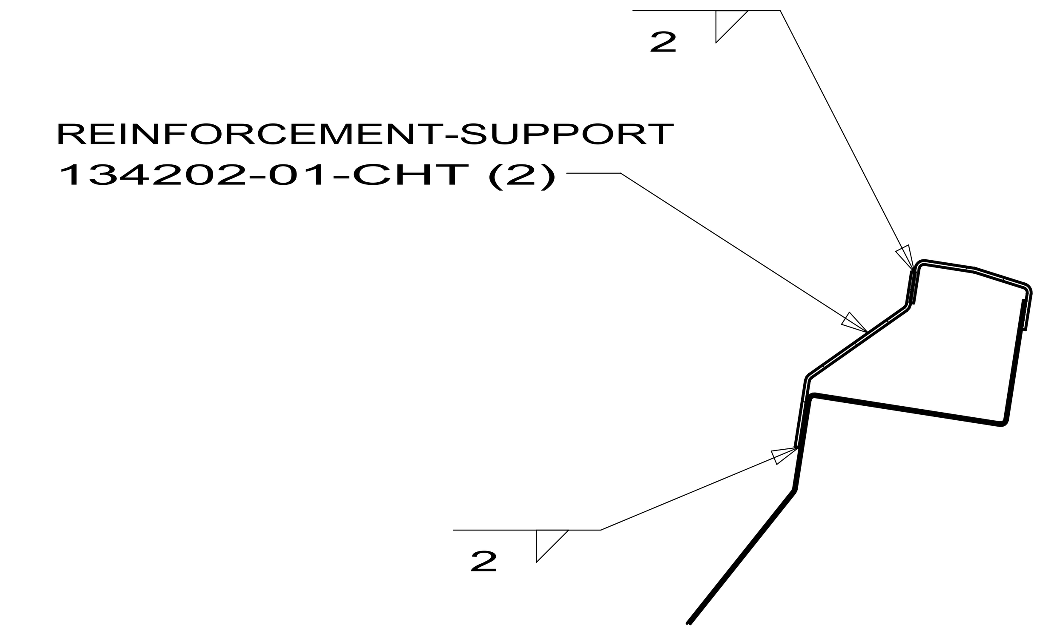
FIRST USED	09 J-SER,FL
	DO NOT SCALE DRAWING
TITLE:	FRONT END ASM
SHEET 9	PART NO 168875 REV

2/19/2010

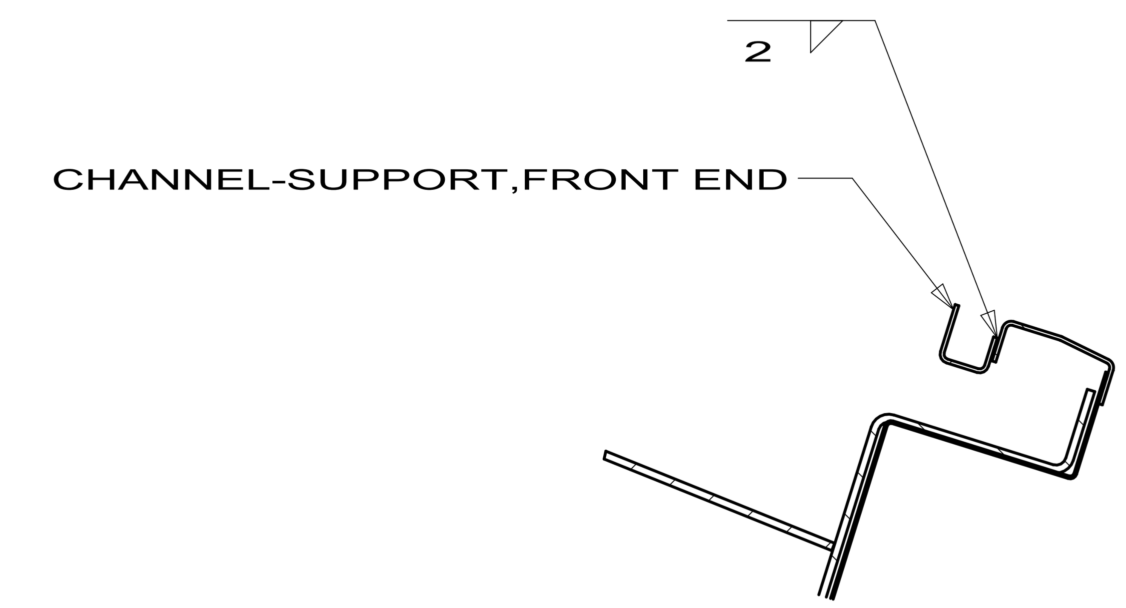
DWG NO 168875



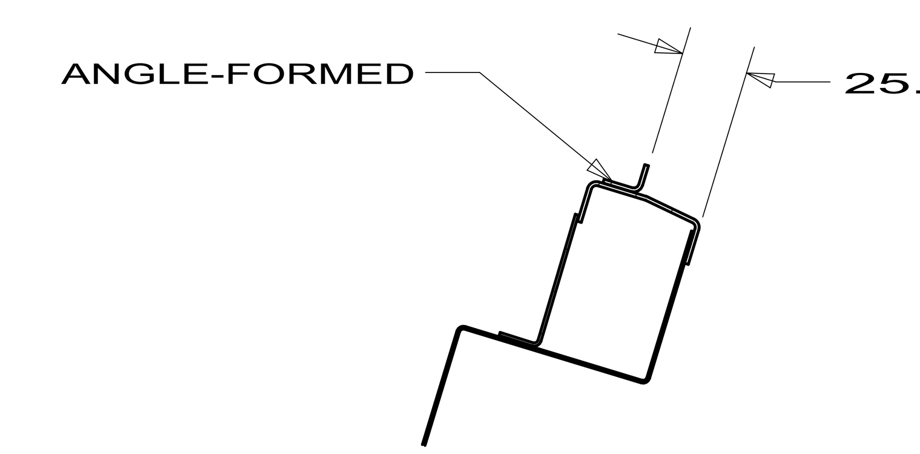
SECTION KA-KA



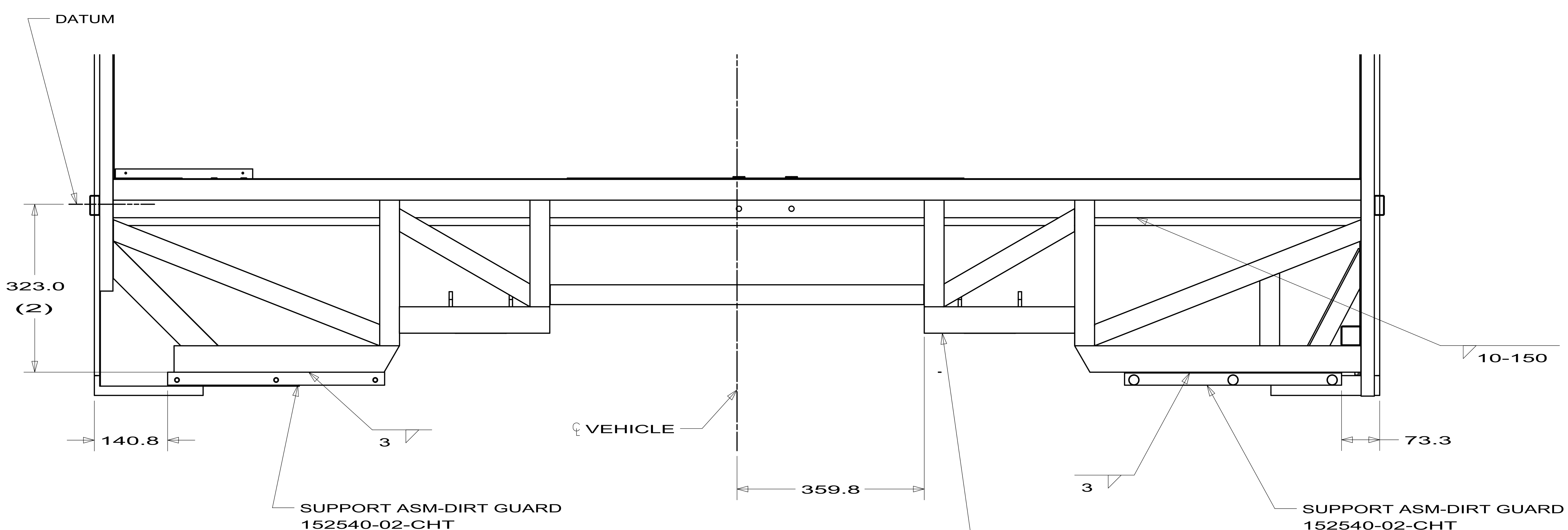
SECTION KC-KC
(2 PLCS)



SECTION KD-KD
(4 PLCS)



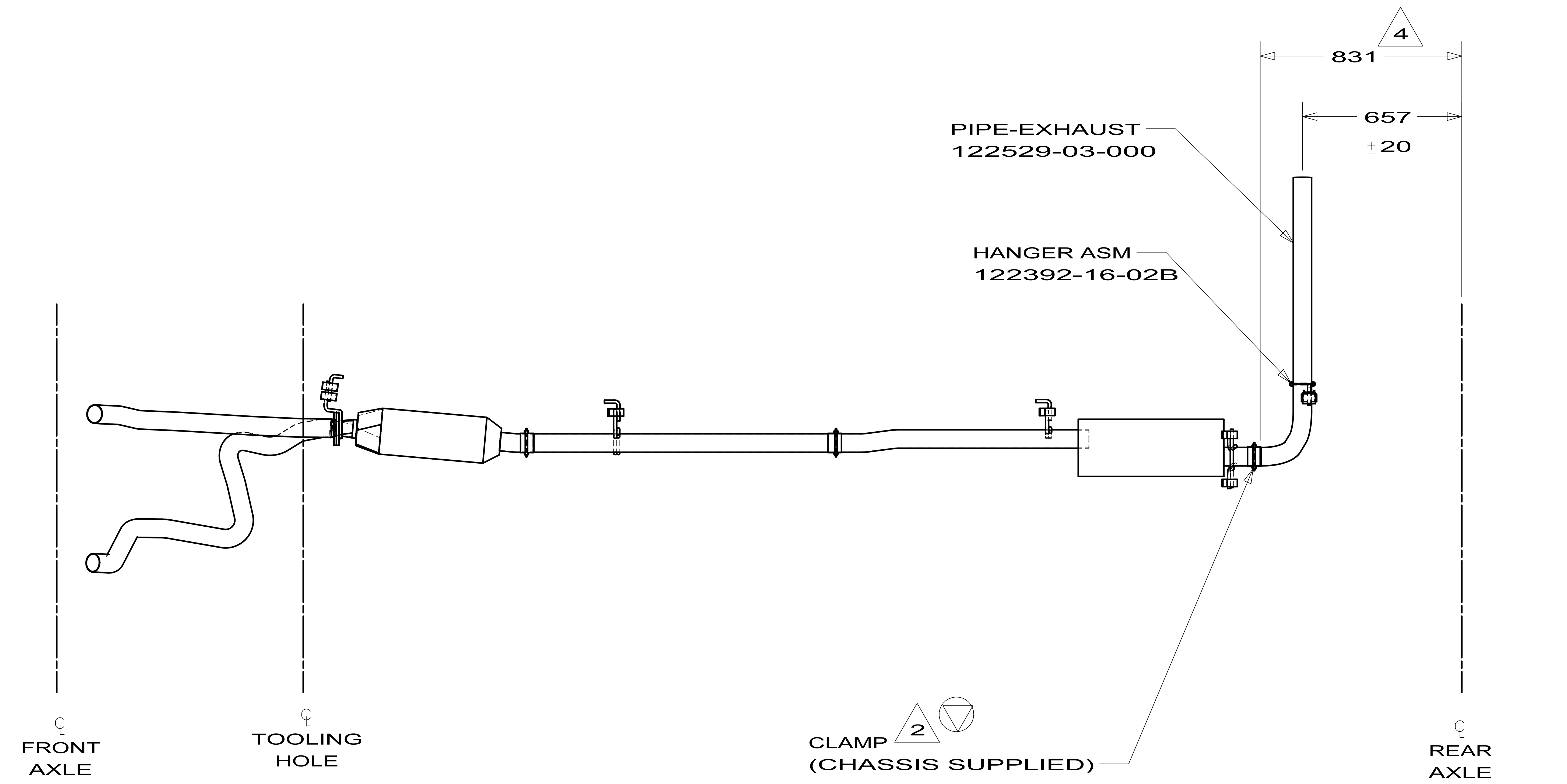
SECTION KE-KE
(2 PLCS)

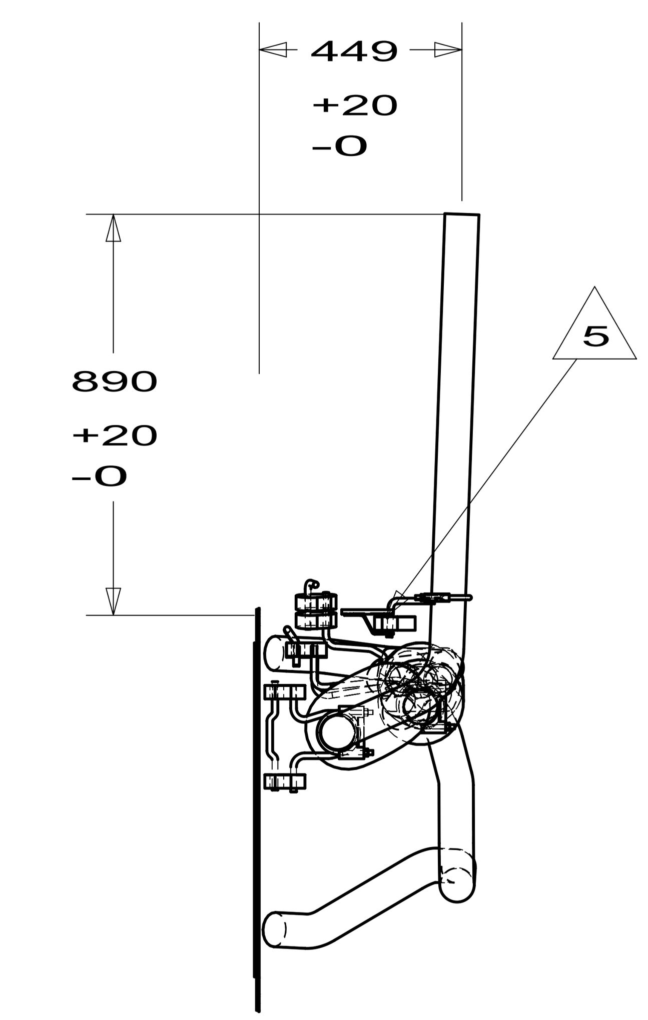


VIEW KB

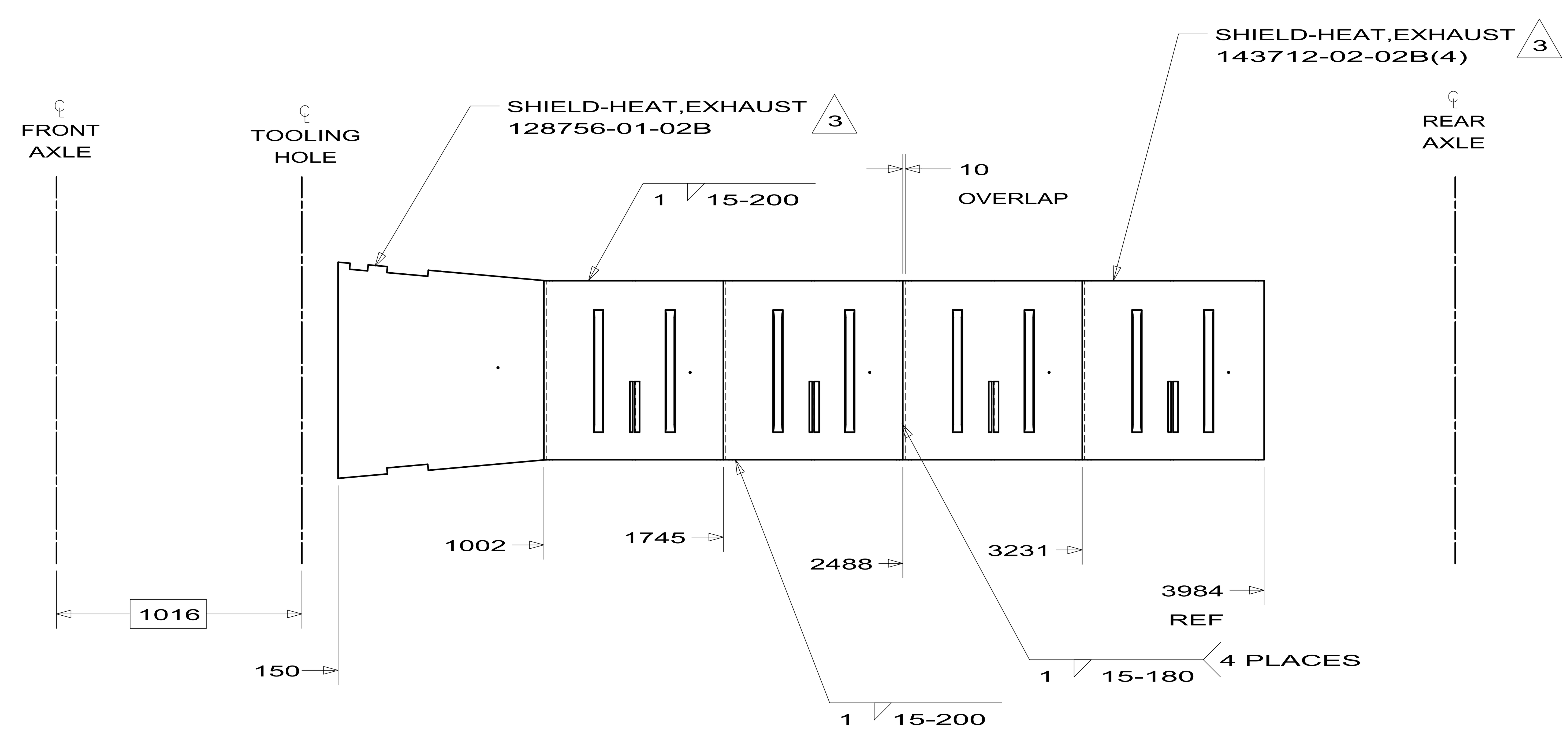
FIRST USED	09 J-SER,FL
	DO NOT SCALE DRAWING
TITLE:	FRONT END ASM
SHEET 10	PART NO 168875 REV

2/19/2010





J35P,J35Z
167164-08



228" WHEELBASE

FIRST USED	09 MOTORHOMES
	DO NOT SCALE DRAWING
TITLE:	EXHAUST SYSTEM INSTL-FORD
SHEET 8	PART NO 167164 REV

175444-07
E35F/J35P/J35Z
228" WHEELBASE

FIRST USED	11 FD MH
DO NOT SCALE DRAWING	
TITLE:	EXHAUST SYSTEM INSTL-FD
SHEET 8	PART NO 175444 REV

2/25/2010

FIRST USED: 09 MOTORHOMES

DO NOT SCALE DRAWING

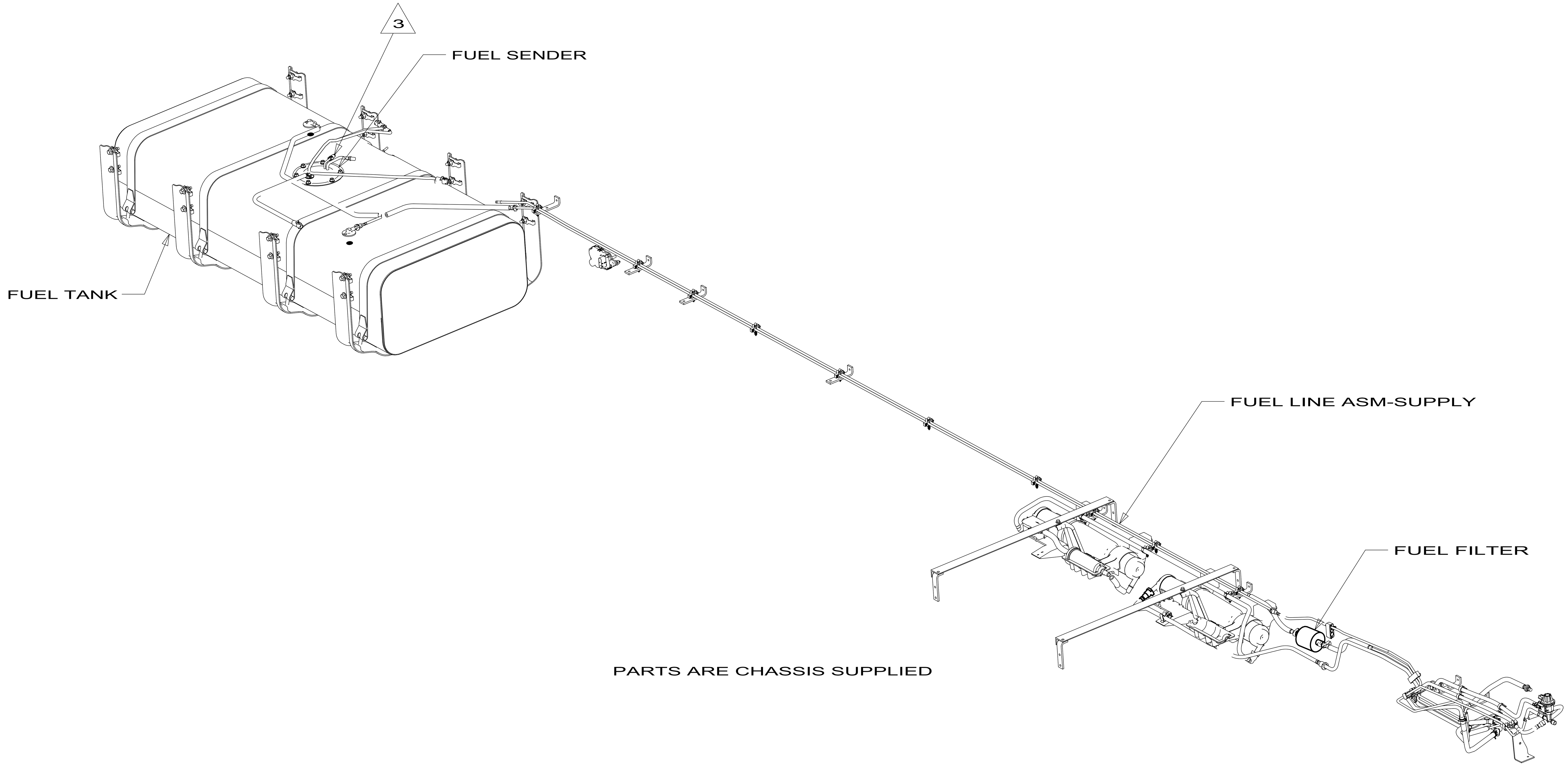
TITLE: EXHAUST SYSTEM INSTL-WH

SHEET 5 | PART NO 167341 | REV

10/22/2009

228" WHEELBASE

FIRST USED	09 J-SER,FL
	DO NOT SCALE DRAWING
TITLE:	EXHAUST SYSTEM INSTL
SHEET 2	PART NO 168983 REV



PARTS ARE CHASSIS SUPPLIED

D35J
J35P
J35Z
155029-04

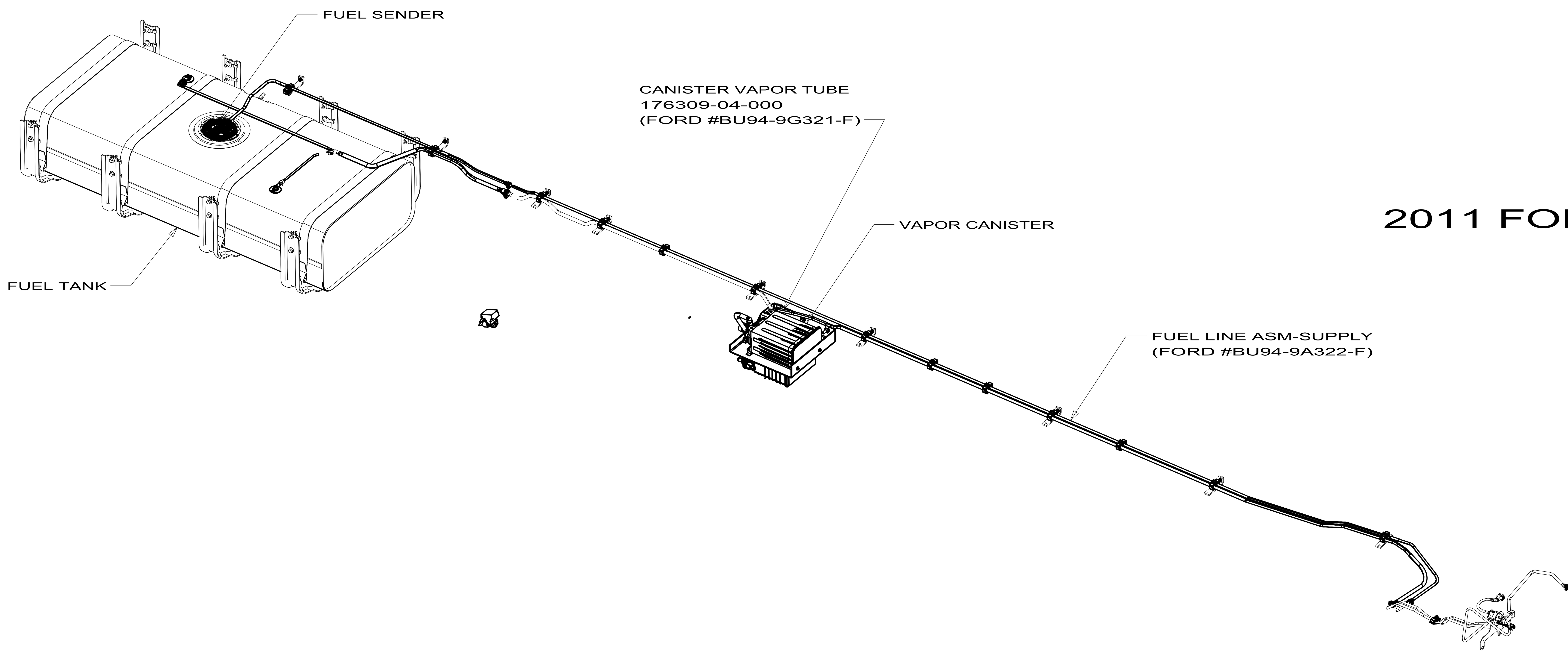
228" WHEELBASE
228" BASE CHASSIS

FIRST USED	2006 F53 FORD
DO NOT SCALE DRAWING	
TITLE:	FUEL SYSTEM INSTL-SUPPLY
SHEET 4	PART NO 155029 REV

DWG NO 155029

10/21/2009

DWG NO 175442



D35J
J35P
175442-04
2011 FORD CHASSIS

228"WHEELBASE
228" BASE CHASSIS

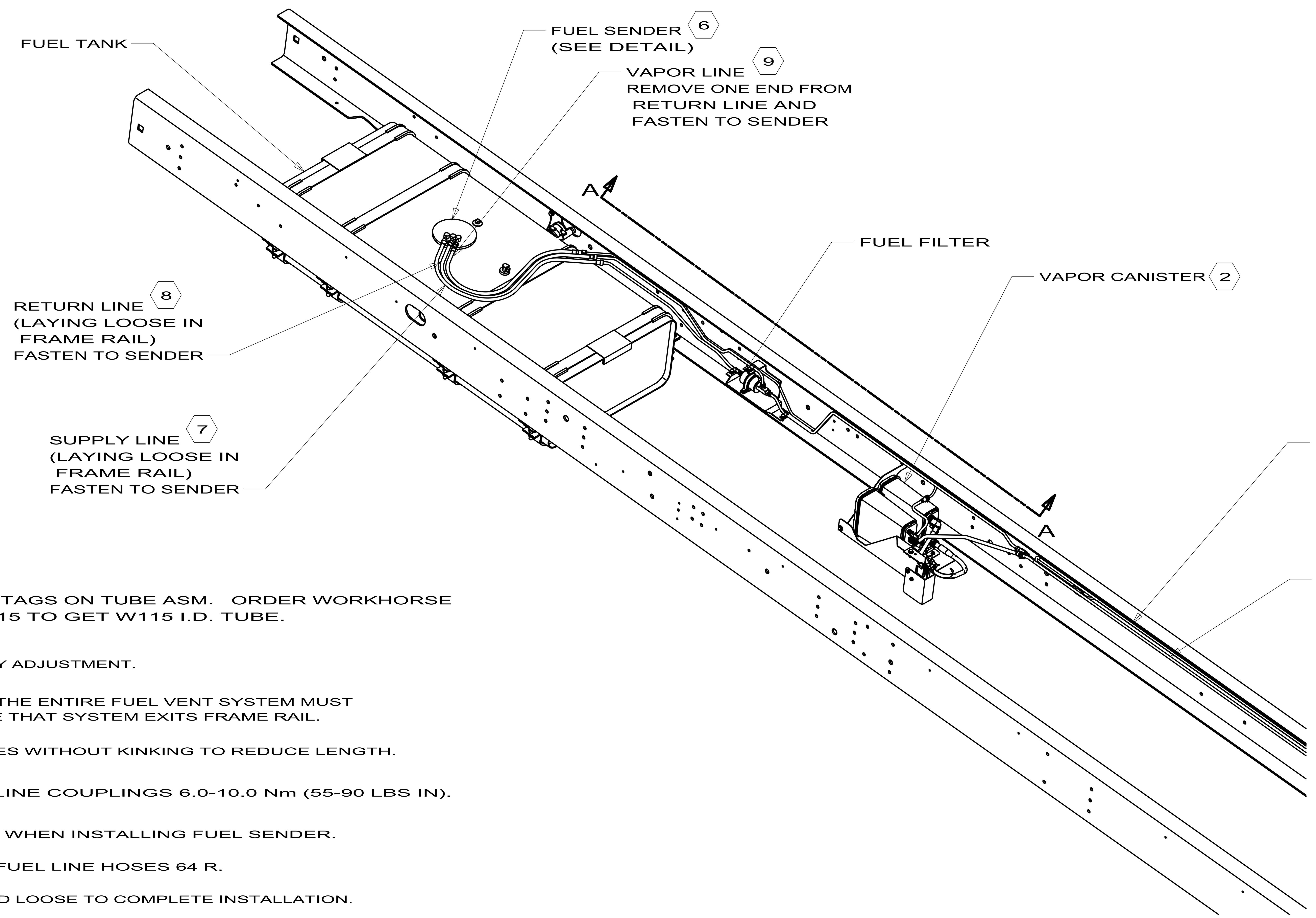
FIRST USED: 11 FD MH	
DO NOT SCALE DRAWING	
TITLE: FUEL SYSTEM INSTL-SUPPLY	
SHEET 4	PART NO 175442 REV

2/25/2010

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 △5	148192-06-000	NOT USED
149048-10	208" TO 228"	98759-02-000	148192-03-000	△7 J35Z,J35P STRETCH
149048-11	228" TO 220"	REPLACE W4976 (228) WITH W5115(208) ADD 98759-01-000 △8	148192-02-000	△7 NOT USED
149048-12	228" TO 208"	REPLACE W4976 (228) WITH W5115(208) ADD 98759-01-000 △8	148192-06-000	△7 NOT USED

RELEASE	REV A	DATE	DWG NO 149048
REV	ZONE	REVISION RECORD	DATE / DFTR-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:

WINNEBAGO INDUSTRIES

DFTR	ORIG. DATE
CHKR	ALL DIMENSIONS ARE IN MILLIMETERS
P.E.	
M.E.	FIRST USED
DSNR	04 WH W20/22
UNSPECIFIED TOLERANCES ARE: WHOLE DIM (X) : 3.0; ONE-PLACE (X.X) : 1.5; TWO-PLACE (X.XX) : 0.50; ANGLE : 1°	MATERIAL:
THIRD ANGLE PROJECTION	

DO NOT SCALE DRAWING

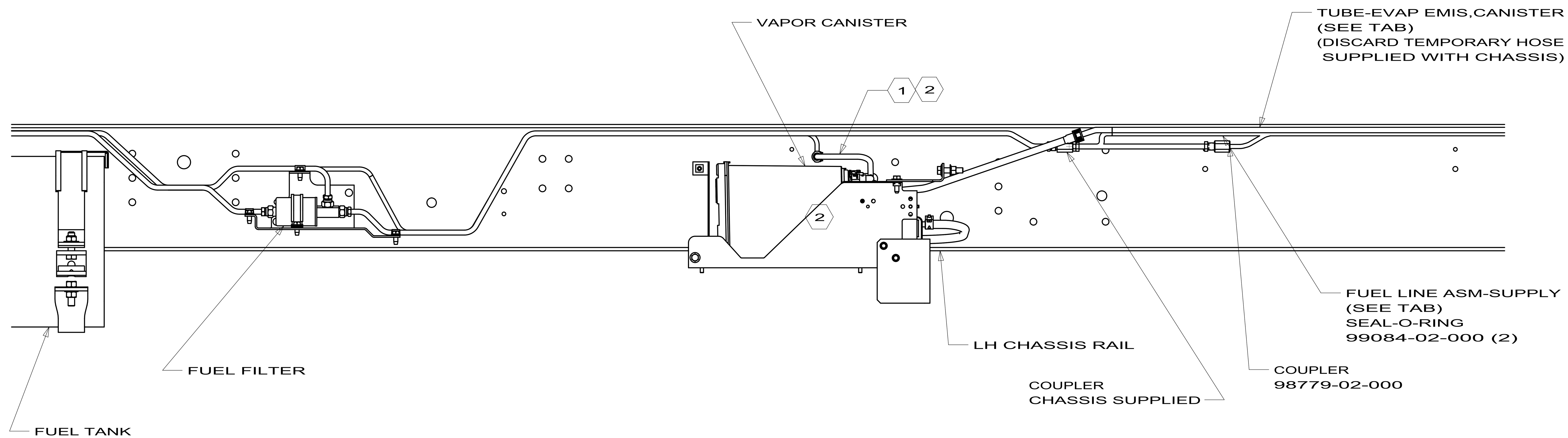
TITLE: FUEL SYSTEM INSTL-SUPPLY

SHEET 1 OF 2 | PART NO 149048 | REV

REF:

8	7	6	5	4	3	2	1

DWG NO 149048



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

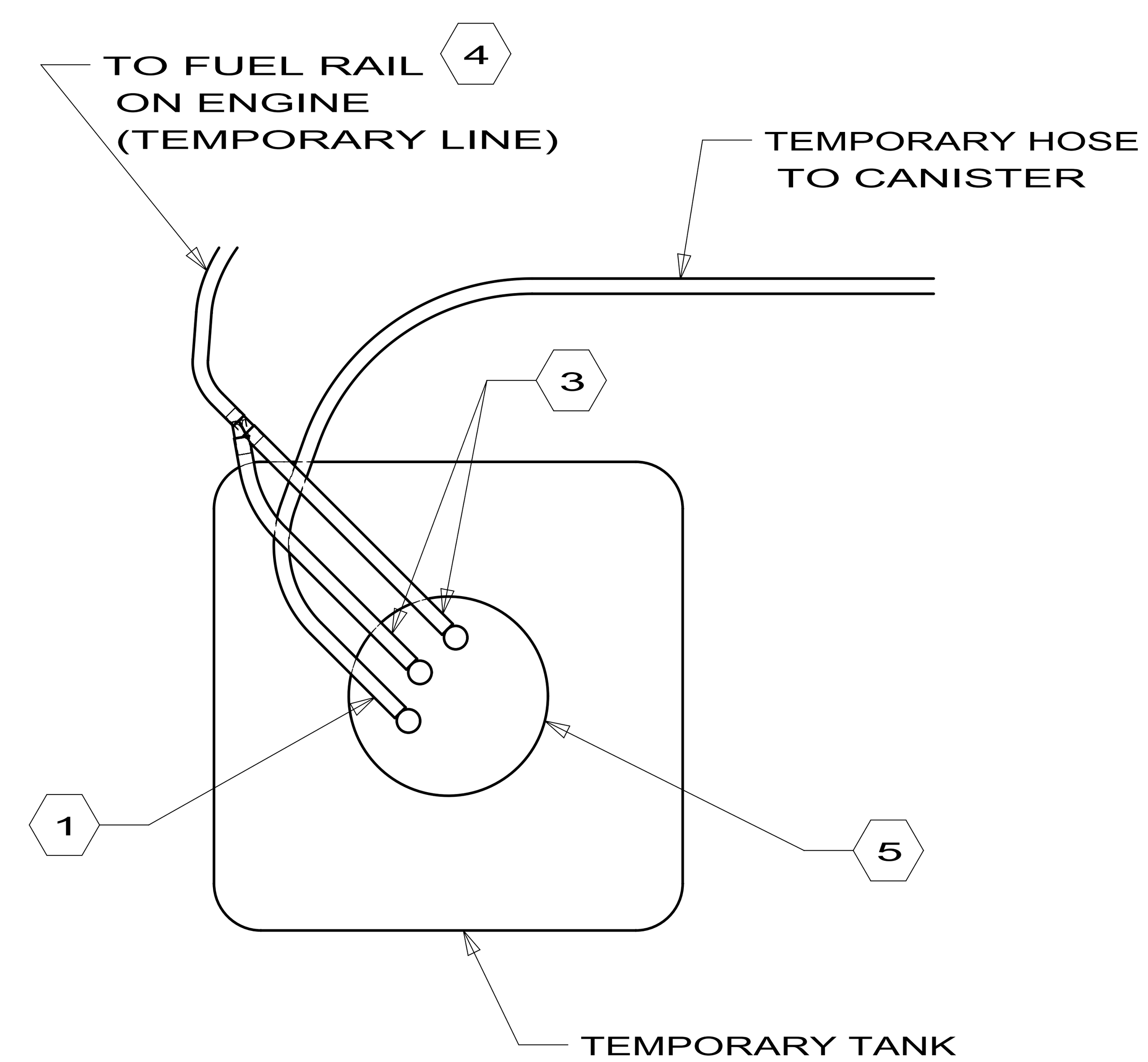
4 Fuel rail on engine
Disconnect temporary line (from fuel sender/wye) and discard
Remove cap from permanent supply line;
Connect line at rail

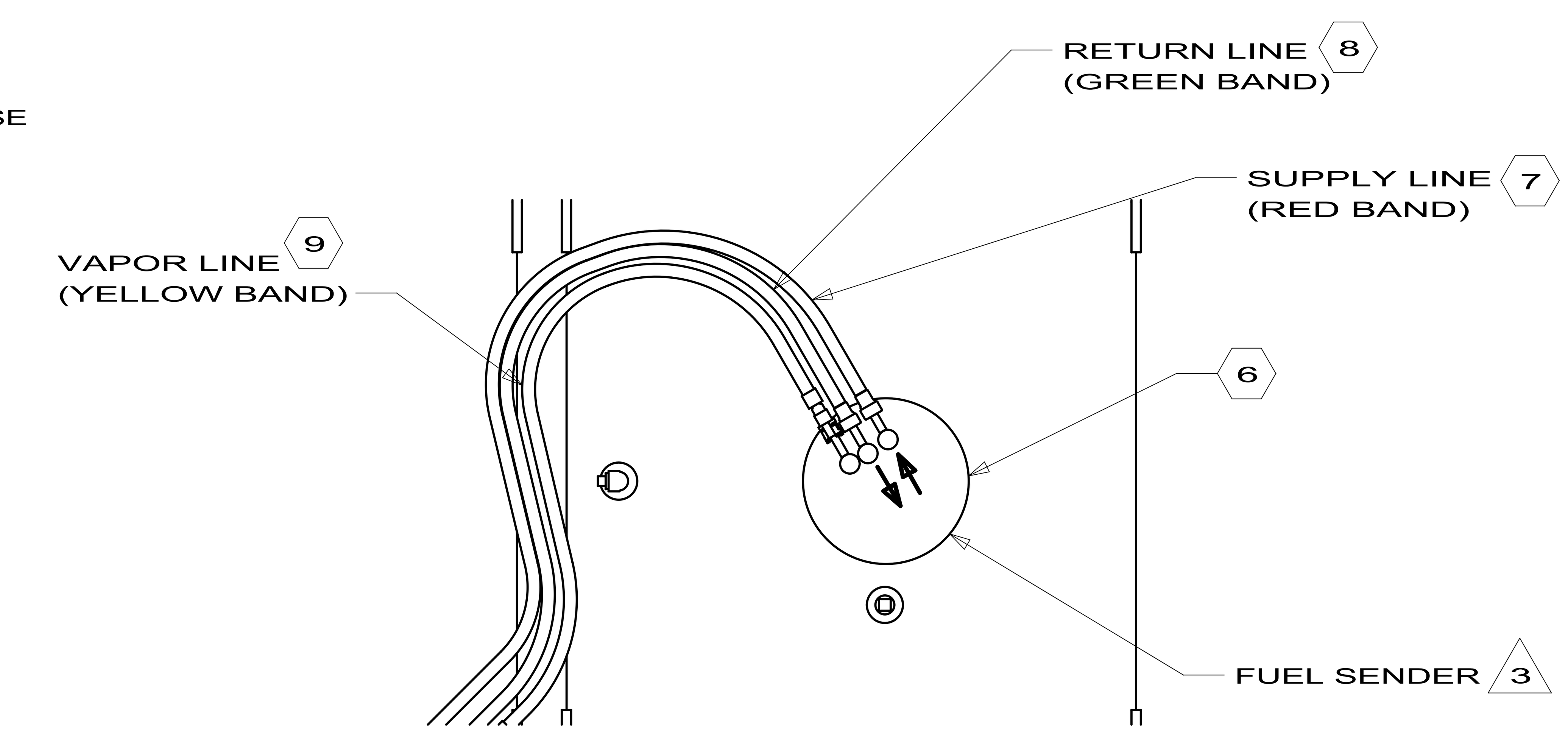
5 Fuel Sender, temporary tank, hoses disconnected
Remove retaining ring; carefully remove sender

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

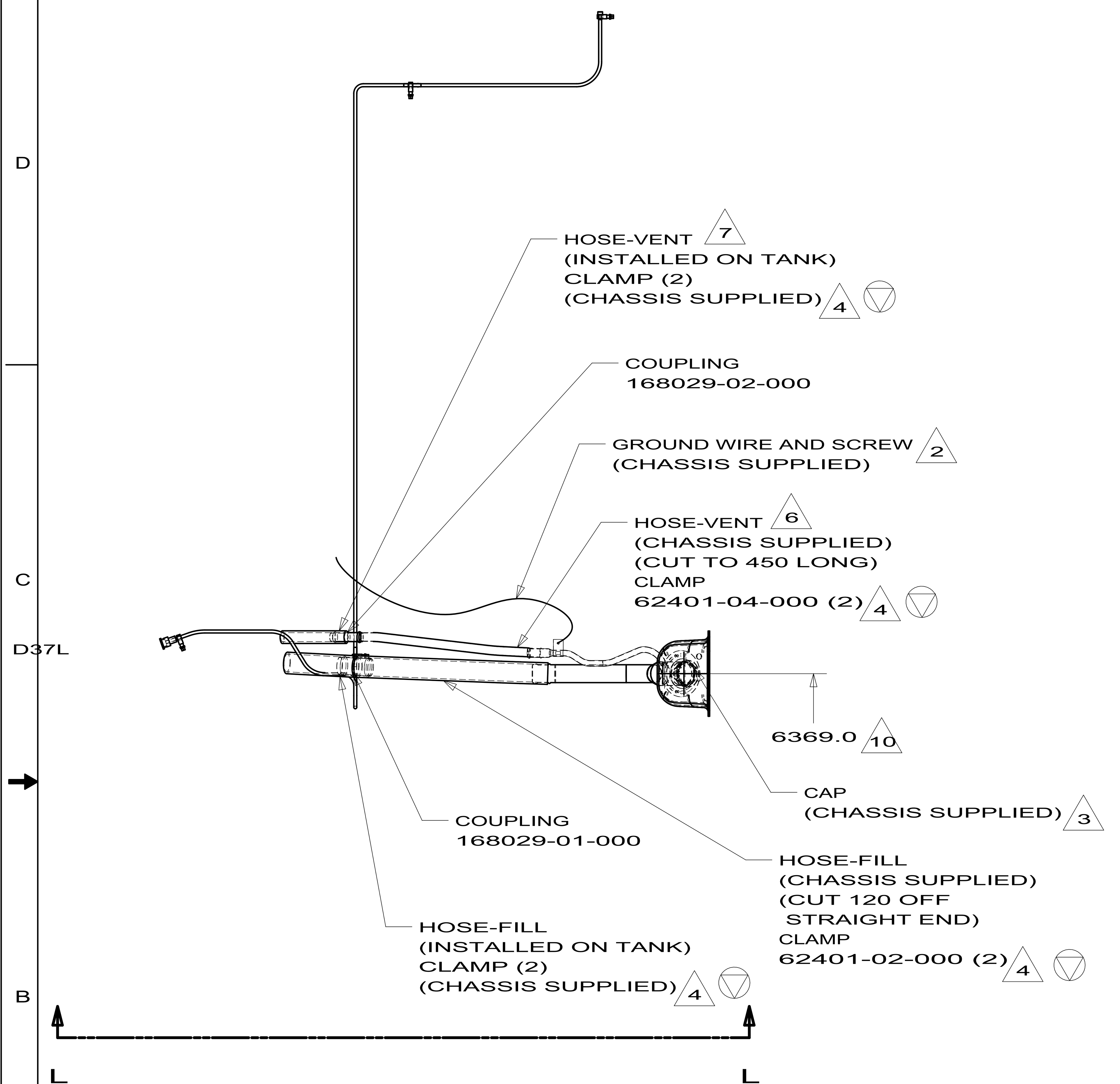
7 Black Braid hose, Red FEED tag; connect to sender port arrow out (to end)
8 Black Braid hose, Green RETURN tag; connect to sender port arrow in (to center)
9 Black Plastic tube; connect to remaining sender port

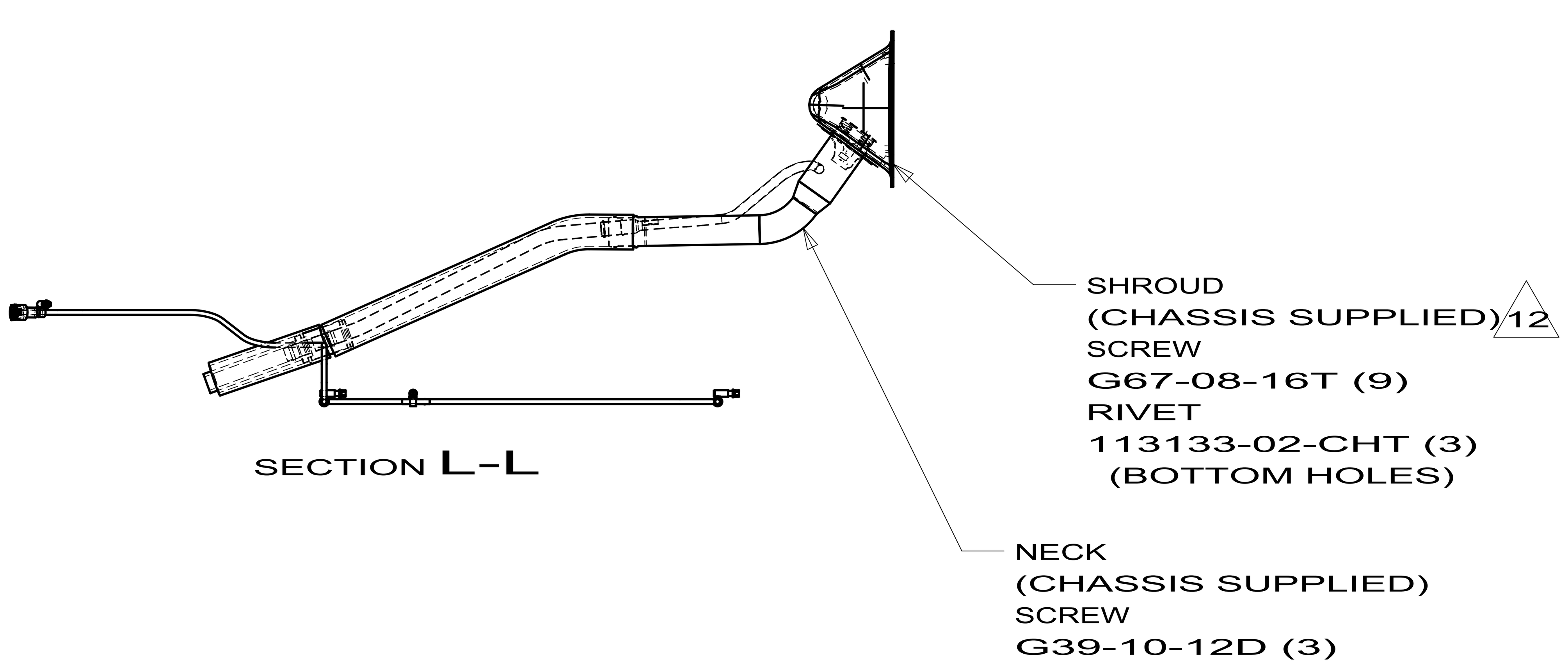




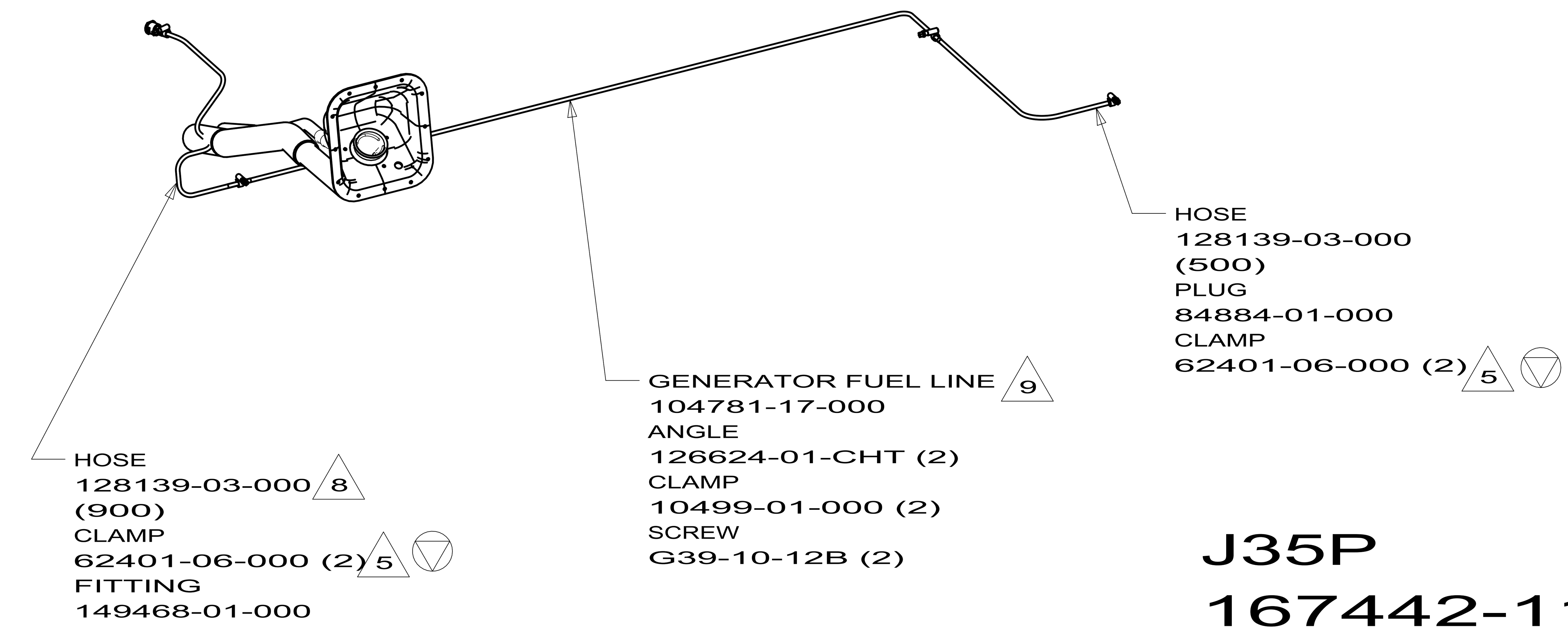
TOP VIEW OF
FUEL SENDER
AND TANK

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





SECTION L-L

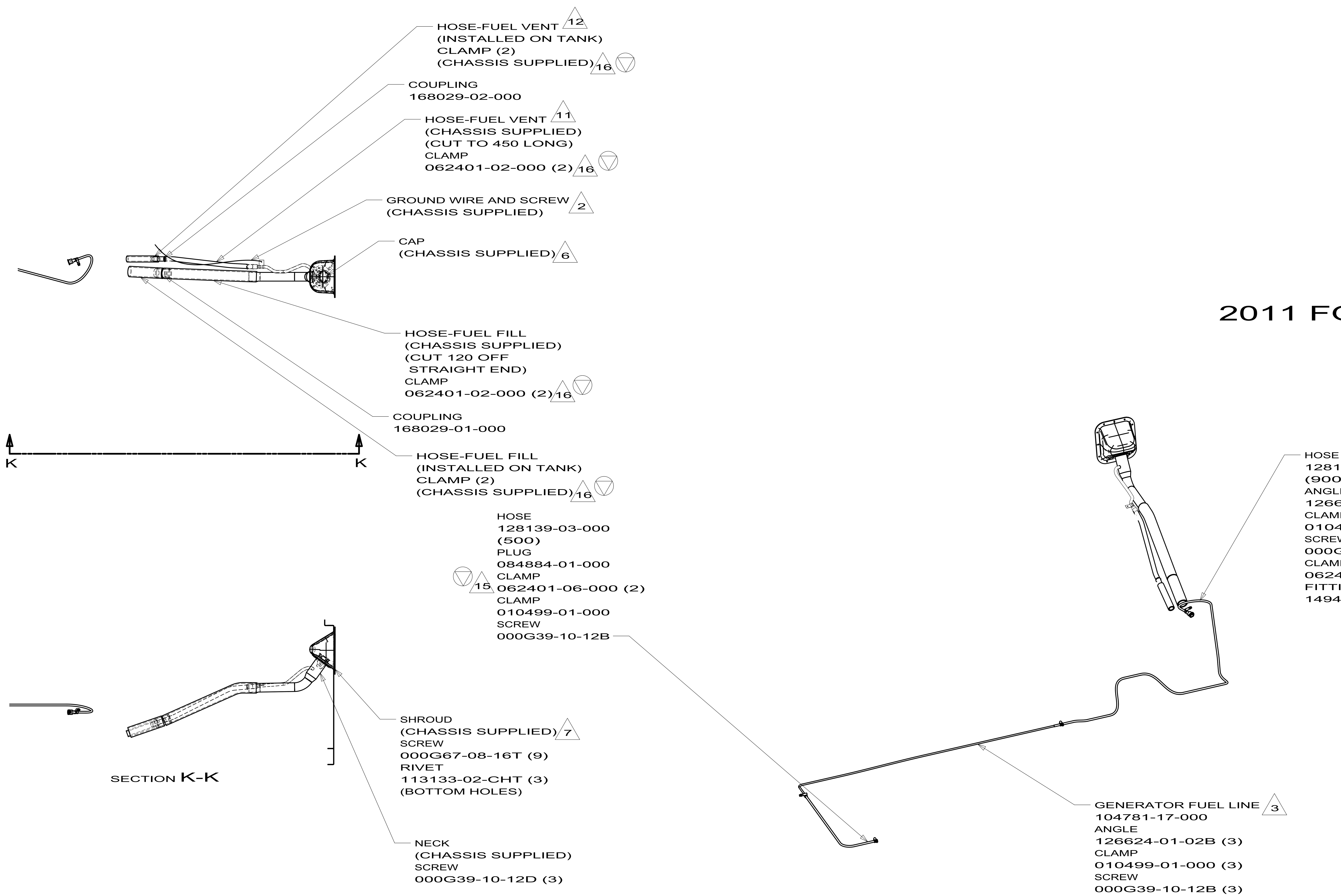


J35P
167442-11

J35P
228" WHEELBASE
LH GENERATOR

FIRST USED	09 FORD MH
DO NOT SCALE DRAWING	
TITLE:	FUEL SYSTEM INSTL-FUEL FILL
SHEET 9	PART NO 167442 REV

10/17/2009

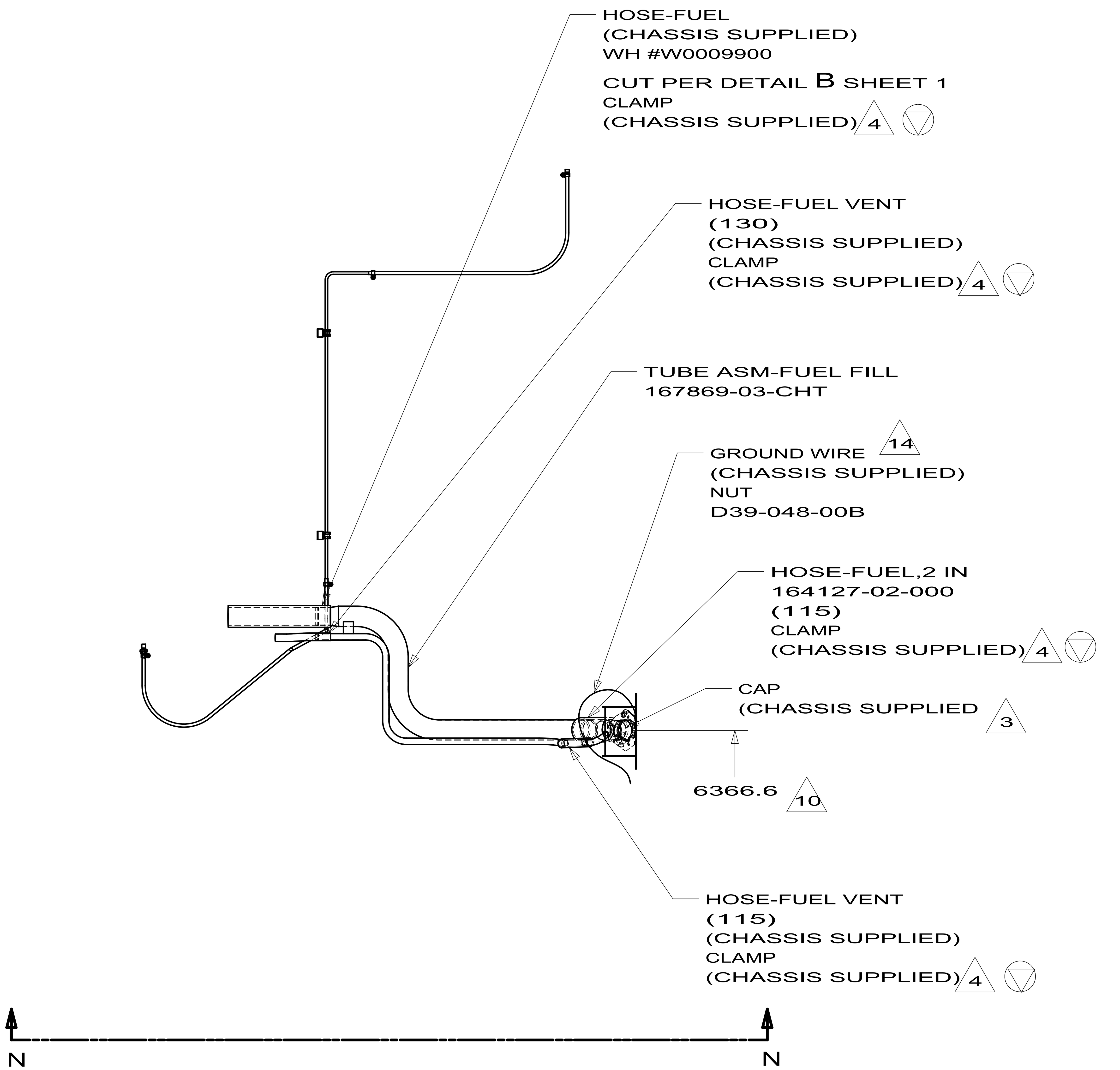


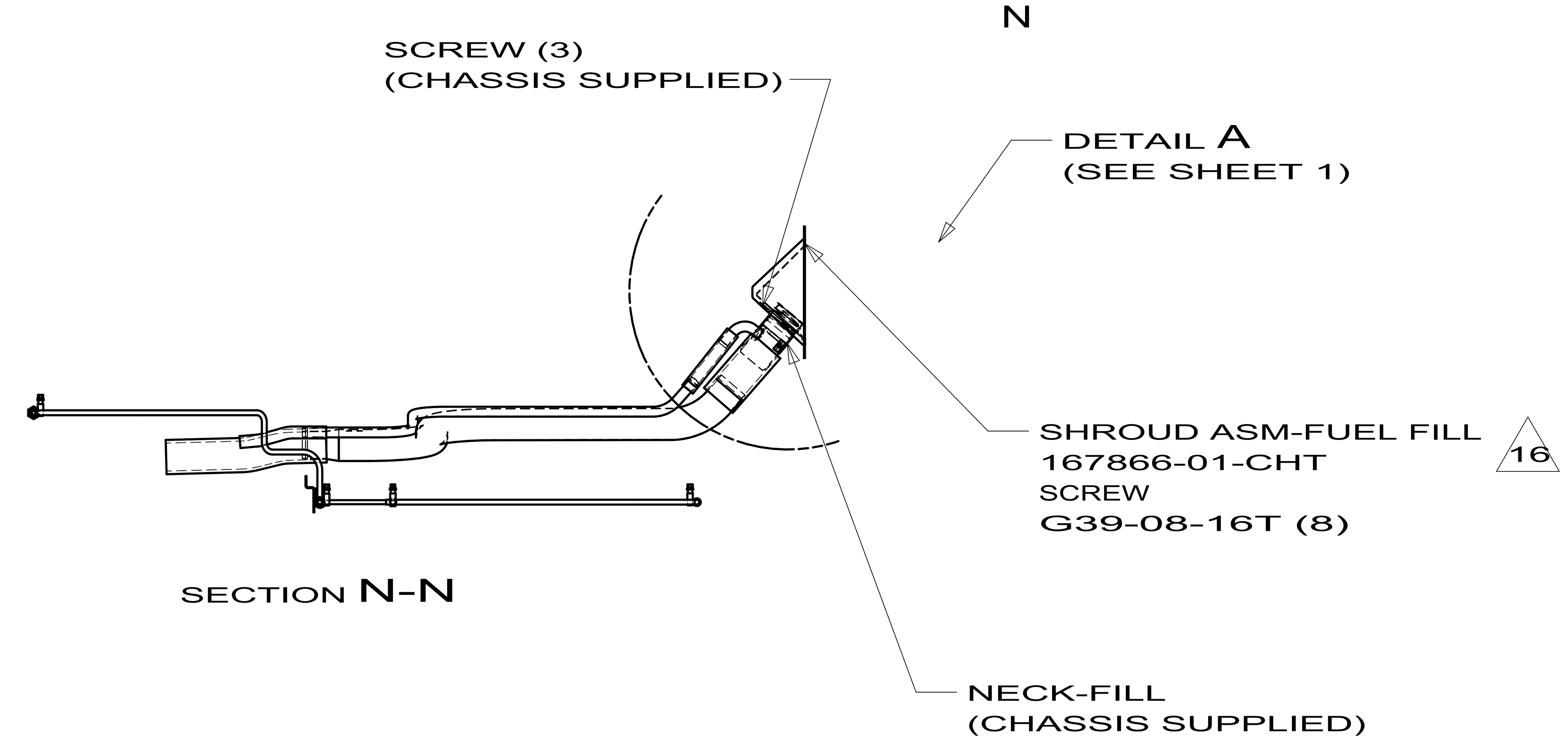
J35P
175441-10
2011 FORD CHASSIS

J35P
228" WHEELBASE
RH GENERATOR

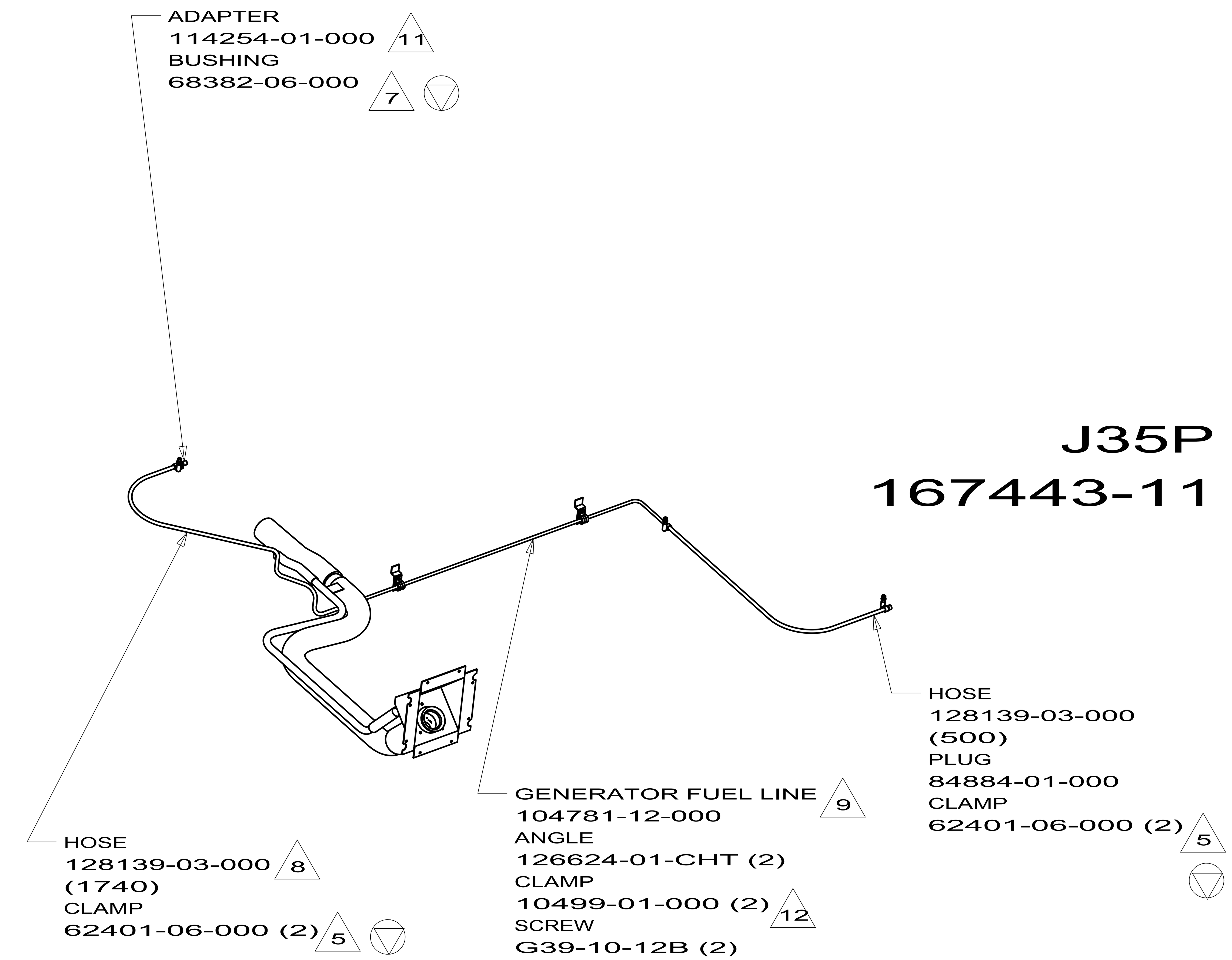
FIRST USED	11 FD MH
	DO NOT SCALE DRAWING
TITLE:	FUEL SYSTEM INSTL-FUEL FILL
SHEET 11	PART NO 175441 REV

2/25/2010





SECTION N-N



J35P
167443-11

J35P
228" WHEELBASE
LH GENERATOR

FIRST USED	09 WH
DO NOT SCALE DRAWING	
TITLE:	FUEL SYSTEM INSTL-FUEL FILL
SHEET 10	PART NO 167443 REV

DWG NO 167443

10/17/2009

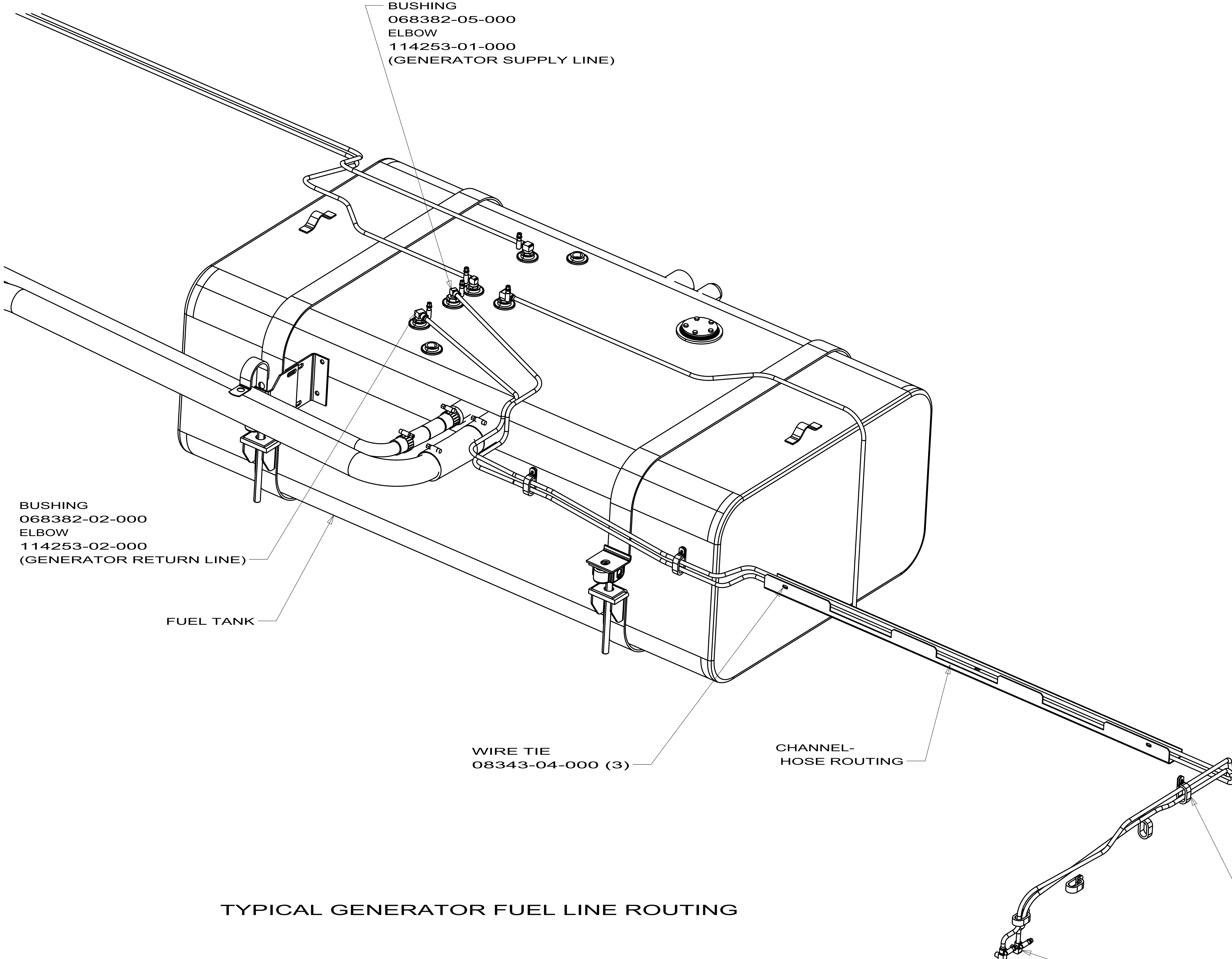
DWG NO 168982

J35P,J35Z
228" WHEELBASE

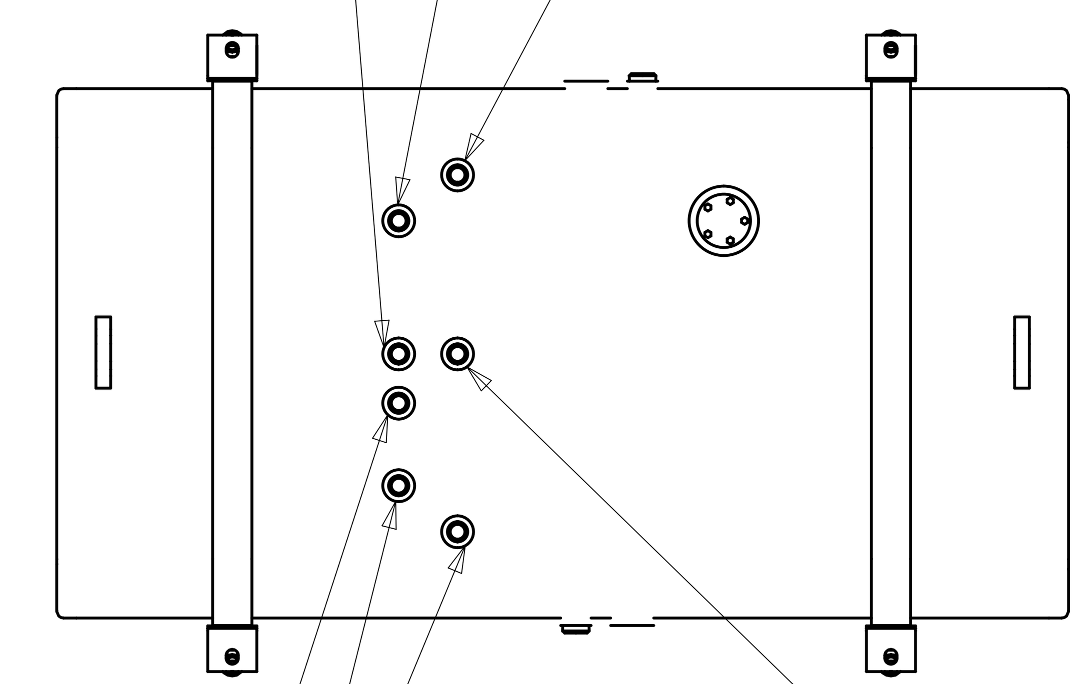
FIRST USED	10 J-SER,FL
	DO NOT SCALE DRAWING
TITLE:	FUEL SYSTEM INSTL-FUEL FILL
SHEET 2	PART NO 168982 REV

10/5/2009

DWG NO 168982



TYPICAL GENERATOR FUEL LINE ROUTING



TYPICAL FUEL TANK

J35P
J35Z
J37F
J38N

FIRST USED	10 J-SER,FL
DO NOT SCALE DRAWING	
TITLE:	FUEL SYSTEM INSTL-FUEL FILL
SHEET 4	PART NO 168982
REV	

10/5/2009

DWG NO	UNIT	WHEELBASE	CHASSIS	GVWR	TIRE SIZE	FRONT JACK DETAIL	REAR JACK DETAIL	SHEET
173521-01	J32H	220"	WH W22	22,000#	22.5"	C	D	2,3,5,6
173521-02	J32H	220"	FD F53	22,000#	22.5"	E	F	2,3,4,5,6
173521-03		208"	WH W22	22,000#	22.5"	C	D	2,3,5,6
173521-04		208"	FD F53	22,000#	22.5"	E	F	2,3,4,5,6
173521-05	J35P/J35Z	228"	WH W22/24	22,000#/24,000	22.5"	C	D	2,3,5,6,7
173521-06	J35P/J35Z	228"	FD F53	22,000#/24,000#	22.5"	E OR G	F OR H	2,3,4,5,6,7
173521-07	J37F	248"	WH W22/24	22,000#/24,000#	22.5"	C	D	2,3,5,6,7
173521-08	J37F	248"	FD F53	24,000#	22.5"	G	H	2,3,4,5,6,7

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 008343-01-000 AROUND CHANNEL APPROXIMATELY 200 mm APART TO SECURE HOSE AND WIRES.

19. ROUTE WIRES THRU ELECTRICAL COMPARTMENT AND UP FLOOR RISER.

18. ON THE J32H RIGHT REAR JACK USE ELBOW 165662-01-000 ON FRONT SIDE POINTING UP.

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

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

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

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

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

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 FITTINGS TO JACK TO 13-15 FT LBS.

7. ▽ TORQUE TO 100-120 FT LBS.

6. HOSES TO BE BENT NO LESS THAN 1.5 RADIUS TO AVOID KINKS OR FLOW RESTRICTIONS.

5. COIL EXCESS HOSE AND LAY ON TOP OF FUEL TANK. TIE HOSES TOGETHER WITH TIE 008343-04-000. IF HOSES ARE COILED, COILS MUST LAY FLAT.

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.

RELEASE | REV A | DATE | DWG NO 173521

REV | ZONE | REVISION RECORD | DATE | DFTR-ORIG

WINNEBAGO INDUSTRIES

DFTR | ORIG. DATE

CHKR | P.E. | M.E. | DSNR

ALL DIMENSIONS ARE IN MILLIMETERS

FIRST USED: 10 J-SERIES

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 7 | PART NO 173521 | REV

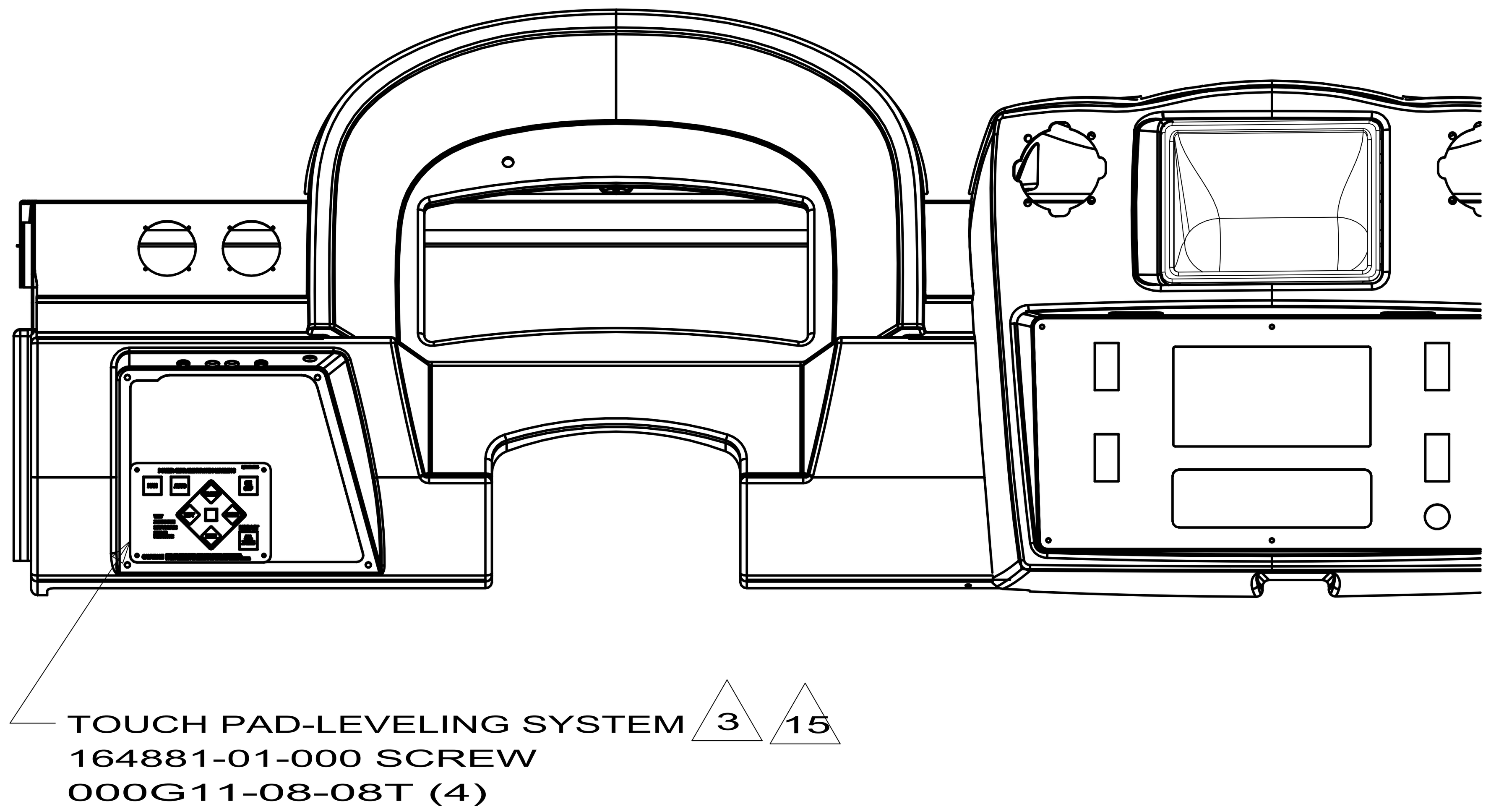
REF:

10/20/2009

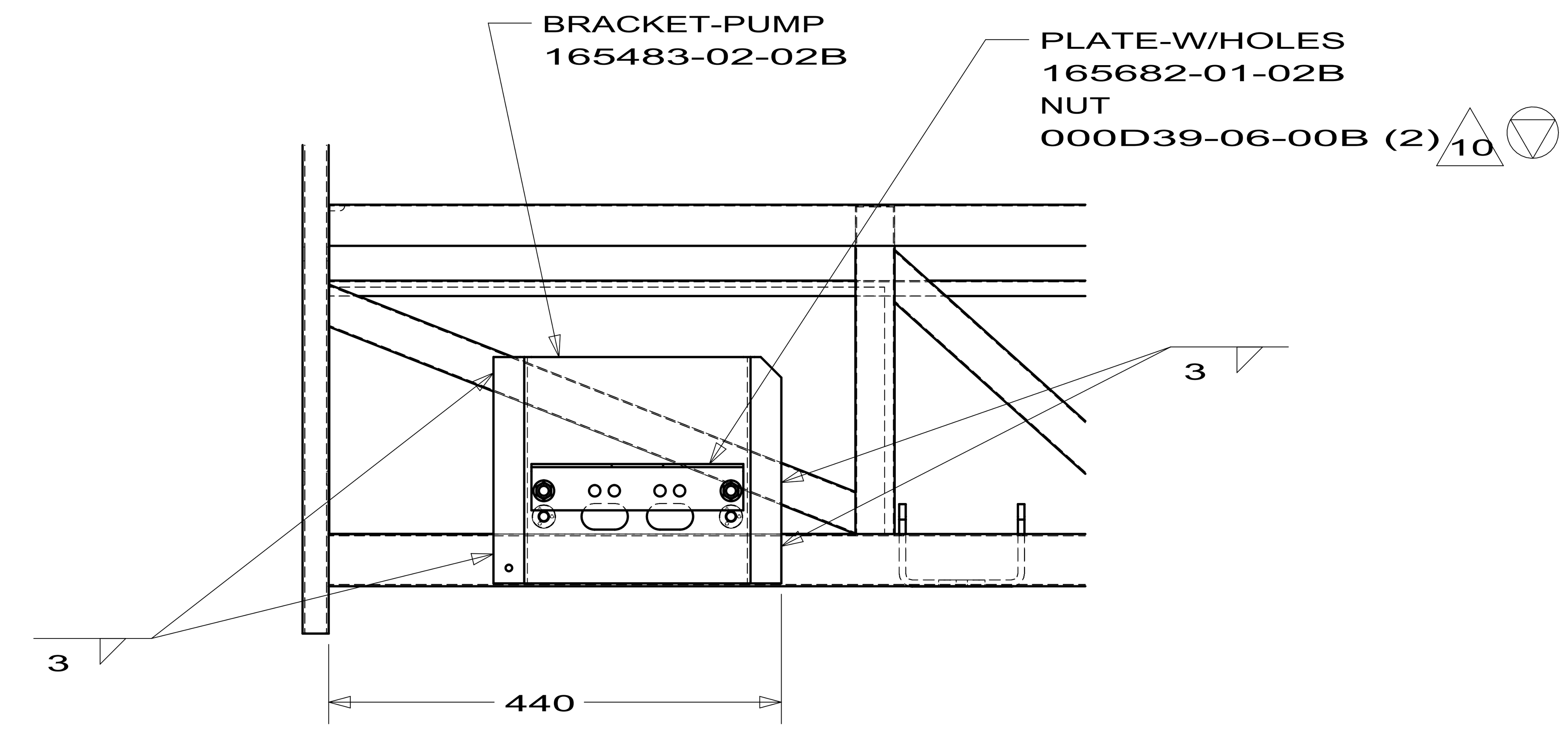
DWG NO 173521

FIRST USED	10 J-SERIES
	DO NOT SCALE DRAWING
TITLE:	LEVELING SYSTEM INSTL-P/G
SHEET 2	PART NO 173521 REV

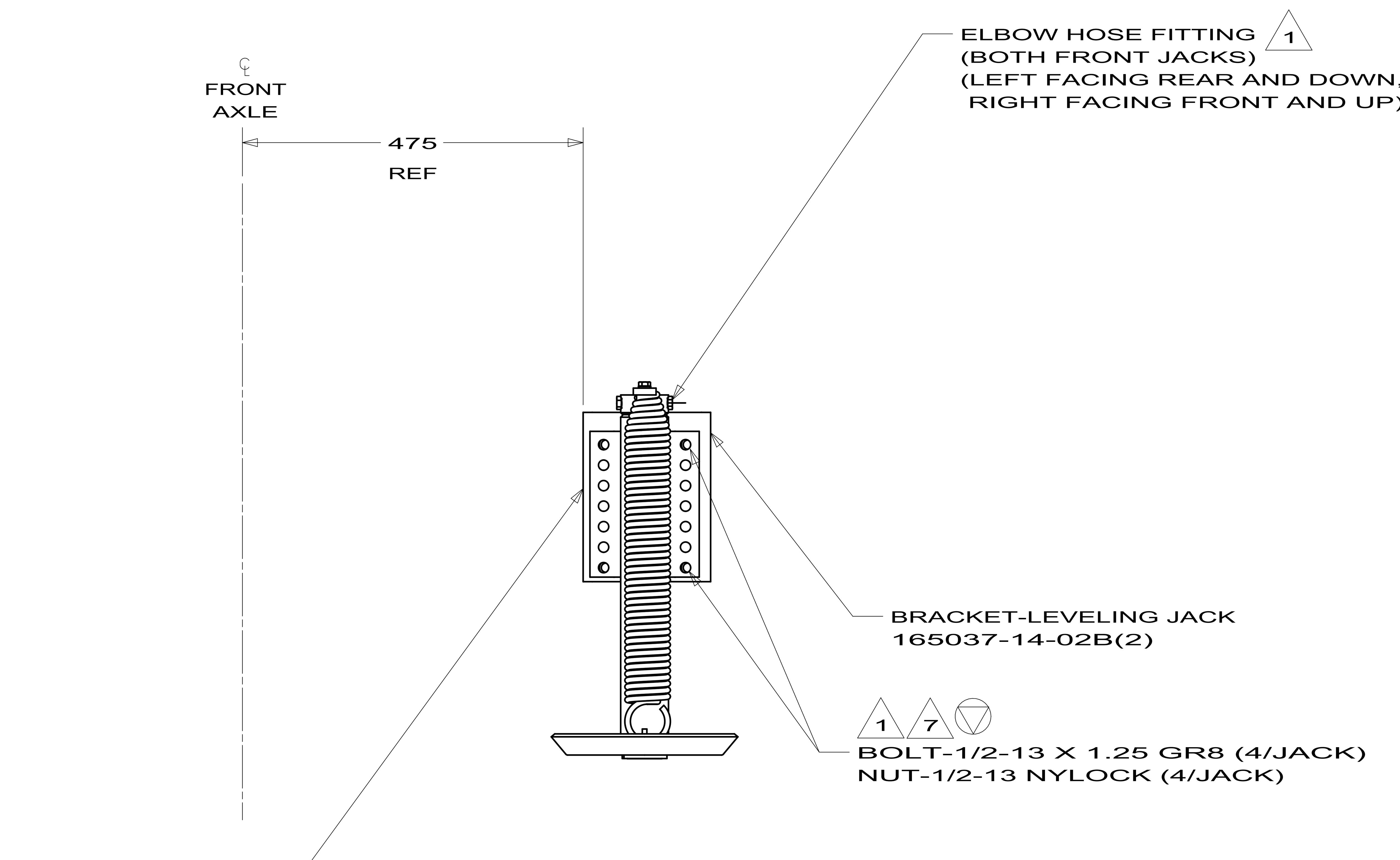
10/20/2009



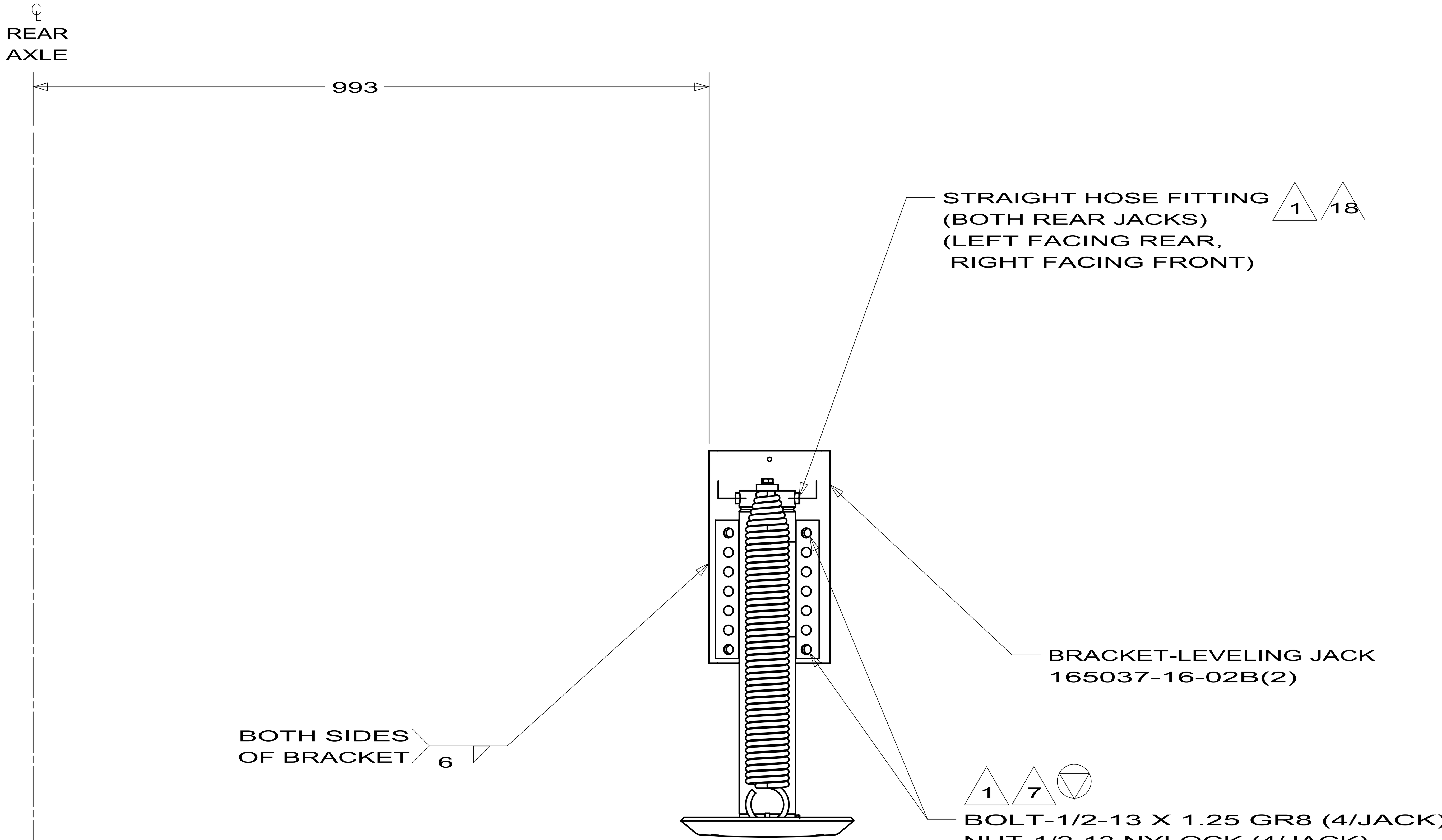
DETAIL A



DETAIL B
(PUMP NOT SHOWN)



DETAIL C
(WH W22/24)
(22,000/24,000 LB GVWR)
(W/22.5" TIRES)



DETAIL D
(WH W22/24)
(22,000/24,000 LB GVWR)
(W/22.5" TIRES)

FIRST USED	10 J-SERIES
	DO NOT SCALE DRAWING
TITLE:	LEVELING SYSTEM INSTL-P/G
SHEET 3	PART NO 173521 REV

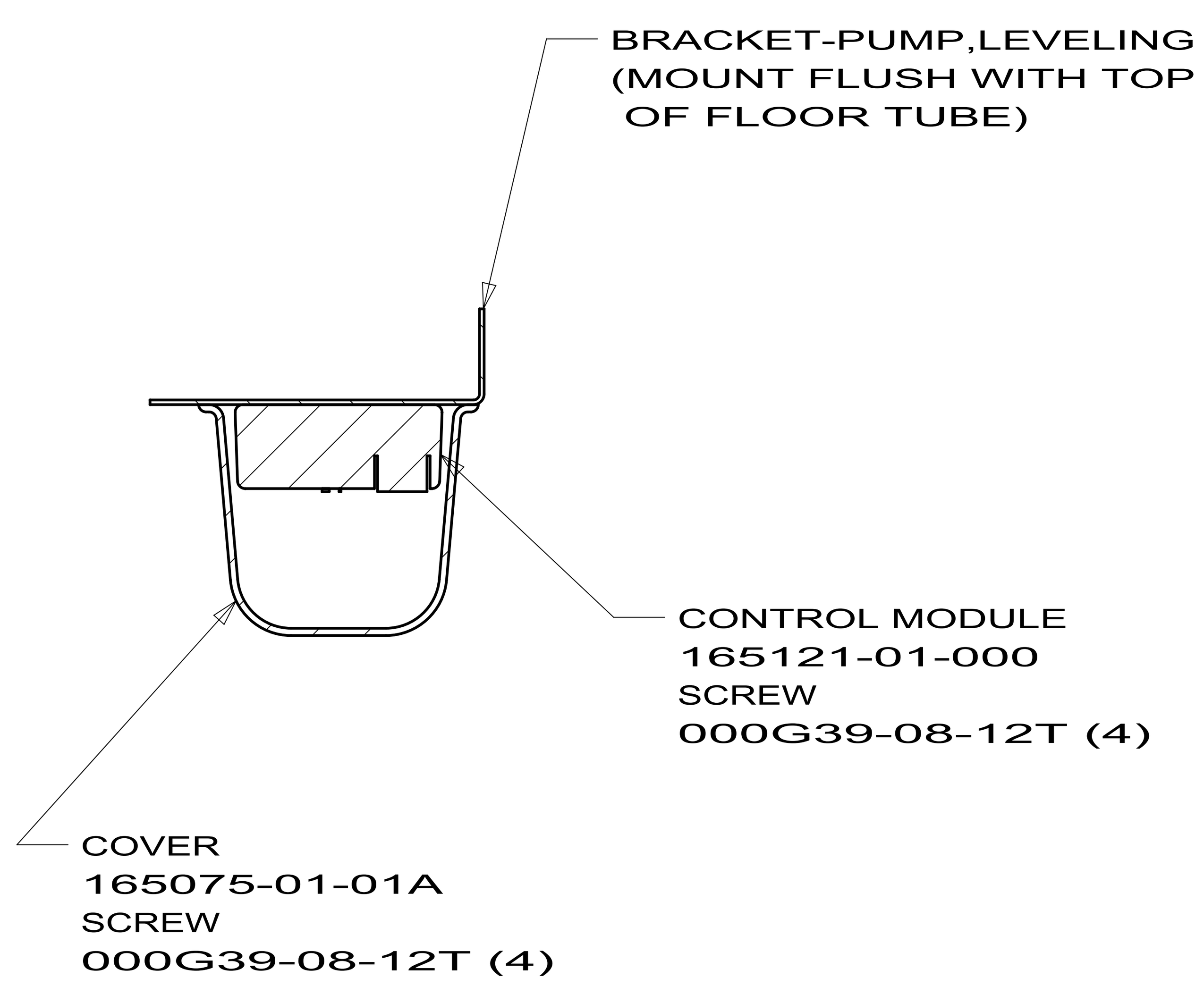
10/20/2009


DWG NO 173521
FRONT AXLE
475
REF
541
30
92
ELBOW HOSE FITTING 1
(BOTH FRONT JACKS)
(LEFT FACING REAR AND DOWN,
RIGHT FACING FRONT AND UP)
TOOLING HOLE
BRACKET-LEVELING JACK
165037-08-02B(2)
1 7
BOLT-1/2-13 X 1.25 GR8 (4/JACK)
NUT-1/2-13 NYLOCK (4/JACK)
BOTH SIDES OF BRACKET 6
DETAIL E
(FORD F53)
(22,000 LB GVWR)
(W/22.5" TIRES)
REAR AXLE
970
STRAIGHT HOSE FITTING 1 18
(BOTH REAR JACKS)
(LEFT FACING REAR,
RIGHT FACING FRONT)
66
104
BRACKET-LEVELING JACK
165037-18-02B(2)
1 7
BOLT-1/2-13 X 1.25 GR8 (4/JACK)
NUT-1/2-13 NYLOCK (4/JACK)
BOTH SIDES OF BRACKET 6
DETAIL F
(FORD F53)
(22,000 LB GVWR)
(W/22.5" TIRES)
FRONT AXLE
475
REF
ELBOW HOSE FITTING 1
(BOTH FRONT JACKS)
(LEFT FACING REAR AND DOWN,
RIGHT FACING FRONT AND UP)
BRACKET-LEVELING JACK
165037-14-02B(2)
1 7
BOLT-1/2-13 X 1.25 GR8 (4/JACK)
NUT-1/2-13 NYLOCK (4/JACK)
BOTH SIDES OF BRACKET 6
DETAIL G
(FORD F53)
(24,000 LB GVWR)
(W/22.5" TIRES)
REAR AXLE
970
STRAIGHT HOSE FITTING 1 18
(BOTH REAR JACKS)
(LEFT FACING REAR,
RIGHT FACING FRONT)
BRACKET-LEVELING JACK
165037-18-02B(2)
1 7
BOLT-1/2-13 X 1.25 GR8 (4/JACK)
NUT-1/2-13 NYLOCK (4/JACK)
BOTH SIDES OF BRACKET 6
DETAIL H
(FORD F53)
(24,000 LB GVWR)
(W/22.5" TIRES)
FIRST USED
10 J-SERIES
DO NOT SCALE DRAWING
TITLE:
LEVELING SYSTEM INSTL-P/G
SHEET 4
PART NO 173521
REV

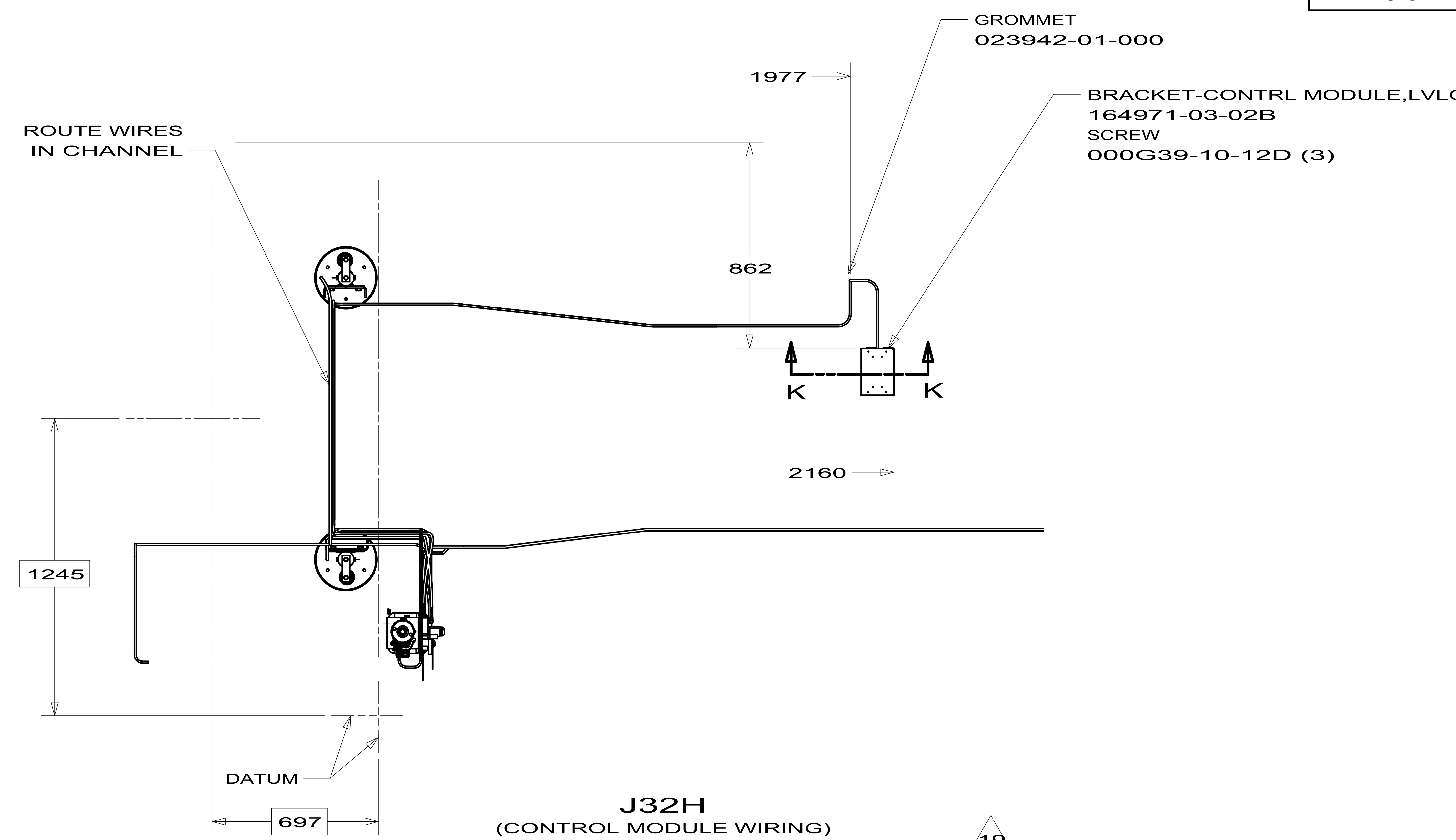
10/20/2009

FIRST USED	10 J-SERIES
	DO NOT SCALE DRAWING
TITLE:	LEVELING SYSTEM INSTL-P/G
SHEET 5	PART NO 173521 REV

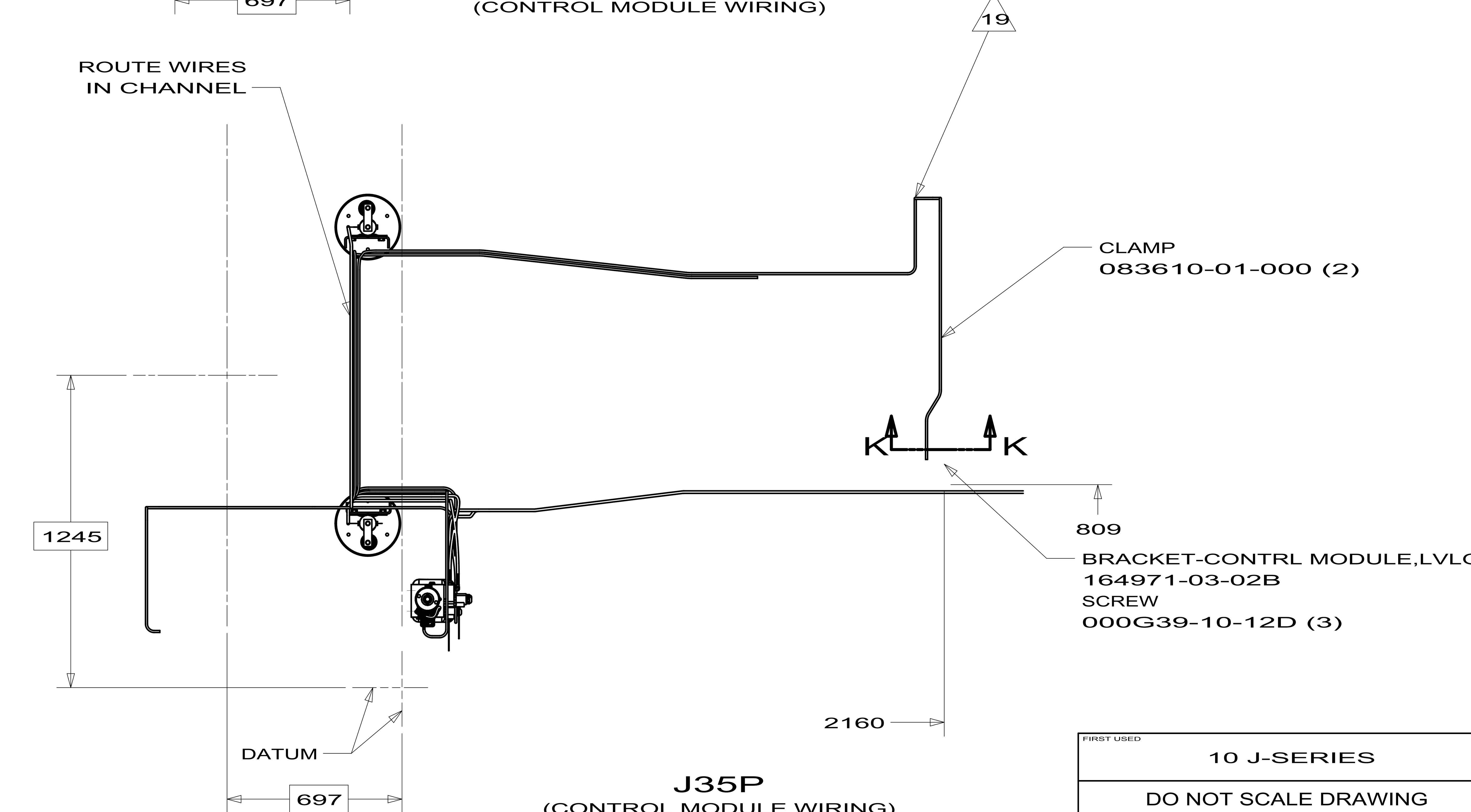
10/20/2009



SECTION K-K



J32H
(CONTROL MODULE WIRING)



J35P
(CONTROL MODULE WIRING)

FIRST USED
10 J-SERIES

DO NOT SCALE DRAWING

TITLE:
LEVELING SYSTEM INSTL-P/G

SHEET 6 | PART NO 173521 | REV

DWG NO	UNIT	WHEELBASE
168876-01	J32H	220"
168876-02	J35A,J35P,J35Z,J35S	228"
168876-03	J37F	248"
168876-04	J33S	208"

RELEASE	REV VH	DATE	DWG NO 168876

REV	ZONE	REVISION RECORD	DATE	DFTR-ORIG

NOTES:

19. TORQUE TO 13-17 FT LBS.
18. ROUTE WIRES THRU ELECTRICAL COMPARTMENT AND UP TO FLOOR RISER.
17. 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.
16. RUN RIGHT FRONT JACK HOSES AND BATTERY POWER CABLE IN CHANNEL ASSEMBLY. WRAP WIRE TIES AROUND CHANNEL APPROXIMATELY 200 mm APART TO SECURE HOSE AND WIRES.
15. HOSE MARKING: HOSES ARE LABELED AT EACH END WITH POWER GEAR PART NUMBER, LENGTH OF H0SE AND JACK LOCATION.
14. MOUNT CONTROL MODULE SO THAT ARROW IS POINTING TO FRONT OF VEHICLE.
13. TO SET LEVELING SENSOR IN THE CONTROL MODULE REFER TO THE POWER GEAR SET-UP AND CALIBRATION PROCEDURE.
12. TO FILL THE HYDRAULIC RESERVOIR REFER TO THE POWER GEAR OIL FILL AND PURGE PROCEDURE.
11. SEE WIRING INSTL-FRONT END FOR "JACK DOWN" LIGHT AND PARK BRAKE WIRING.
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 FITTINGS TO JACK TO 13-15 FT-LBS.
7. TORQUE TO 100-120 LB FTS.
6. HOSES TO BE BENT NO LESS THAN 1.5 INCH RADIUS TO AVOID KINKS OR FLOW RESTRICTIONS.
5. COIL EXCESS HOSE AND LAY ON TOP OF FUEL TANK. TIE HOSES TOGETHER WITH TIE 8343-04-000.
4. COVER ALL HOSES FULL LENGTH WITH CONDUIT 41953-09-000.
3. FOR INFORMATION ON REMOTE SWITCHES SEE BODY WIRING INSTL-12V.
2. SEE BATTERY INSTALLATION FOR ADDITIONAL INFORMATION.
1. PARTS INCLUDED WITH LEVELING SYSTEM.

INDICATES CRITICAL SAFETY PROCEDURE TO BE FOLLOWED

WINNEBAGO INDUSTRIES

DFTR	ORIG. DATE
CHKR	ALL DIMENSIONS ARE IN MILLIMETERS
P.E.	
M.E.	FIRST USED 10 J-SER,FL
DSNR	

UNSPECIFIED TOLERANCES ARE:

WHOLE DIM (X)	±	3
ONE-PLACE (X.X)	±	1.5
TWO-PLACE (X.XX)	±	0.50
ANGLE	±	1°

THIRD ANGLE PROJECTION

MATERIAL:

DO NOT SCALE DRAWING

TITLE: LEVELING SYSTEM INSTL-P/G

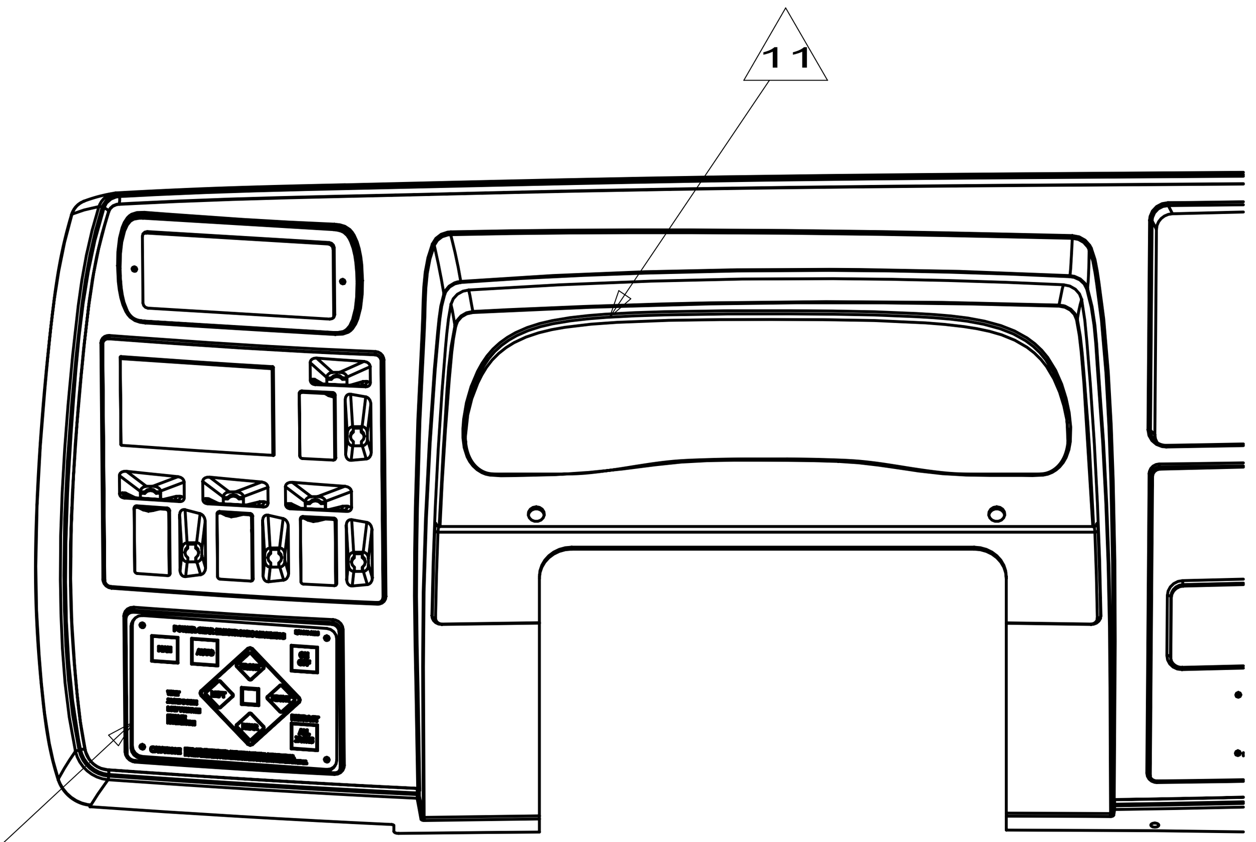
SHEET 1 OF 7 | PART NO 168876 | REV

REF:

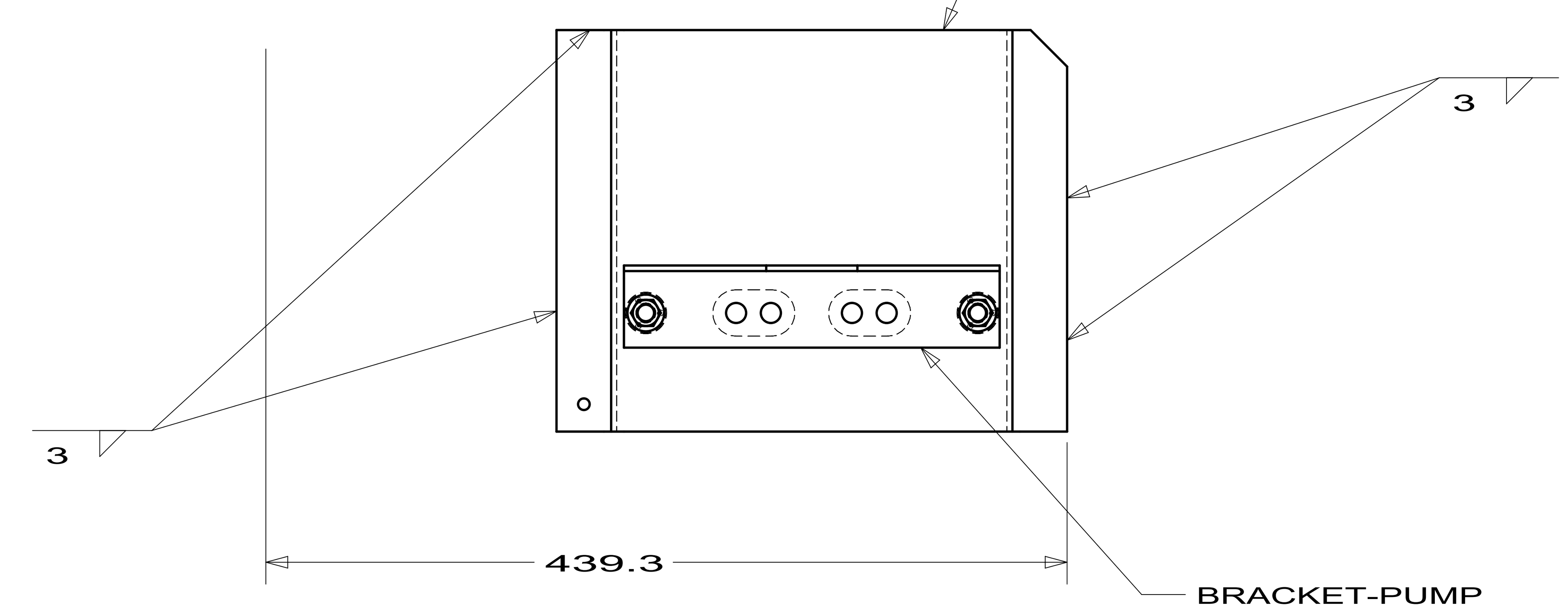
10/17/2009

FIRST USED: 10 J-SER,FL
DO NOT SCALE DRAWING
TITLE: LEVELING SYSTEM INSTL-P/G
SHEET 2 — PART NO 168876 — REV

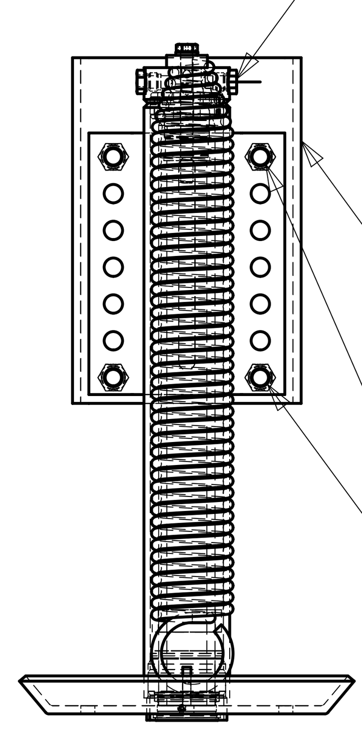
DWG NO 168876



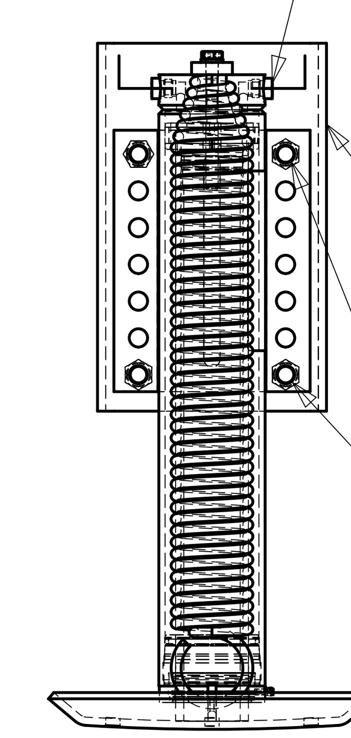
VIEW A



DETAIL B
(PUMP NOT SHOWN)



FRONT JACK DETAIL
W/ 22.5 TIRES



REAR JACK DETAIL
W/ 22.5 TIRES

FIRST USED: 10 J-SER,FL

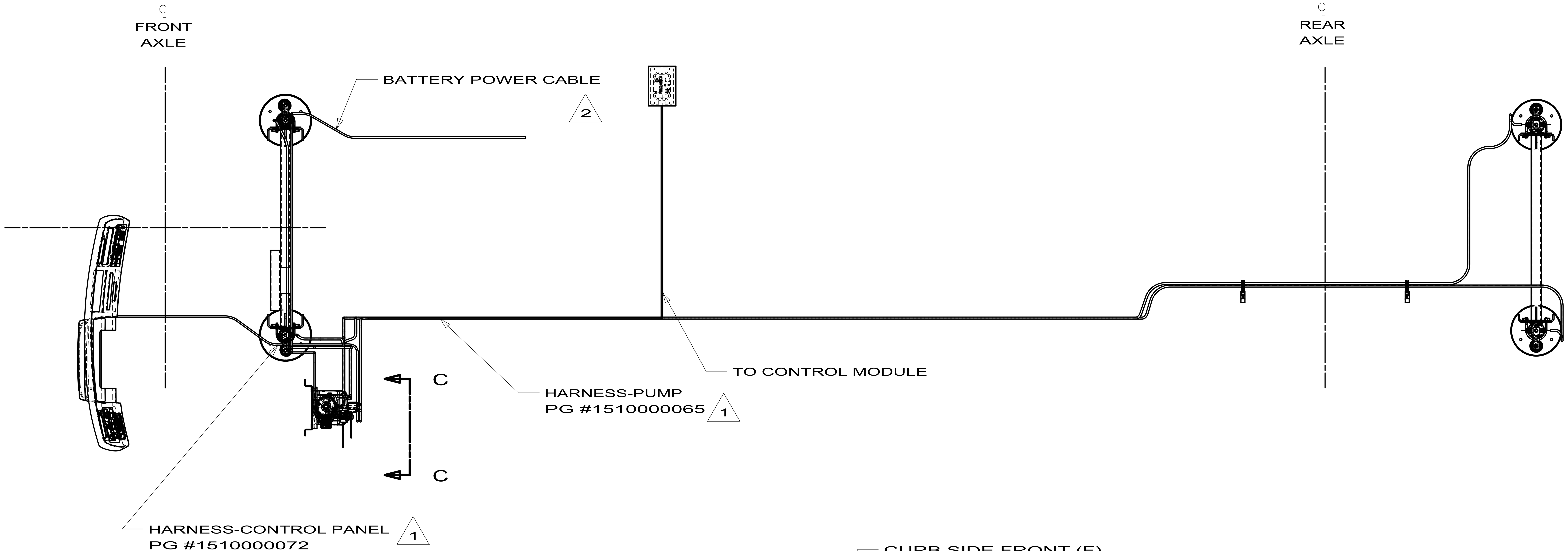
DO NOT SCALE DRAWING

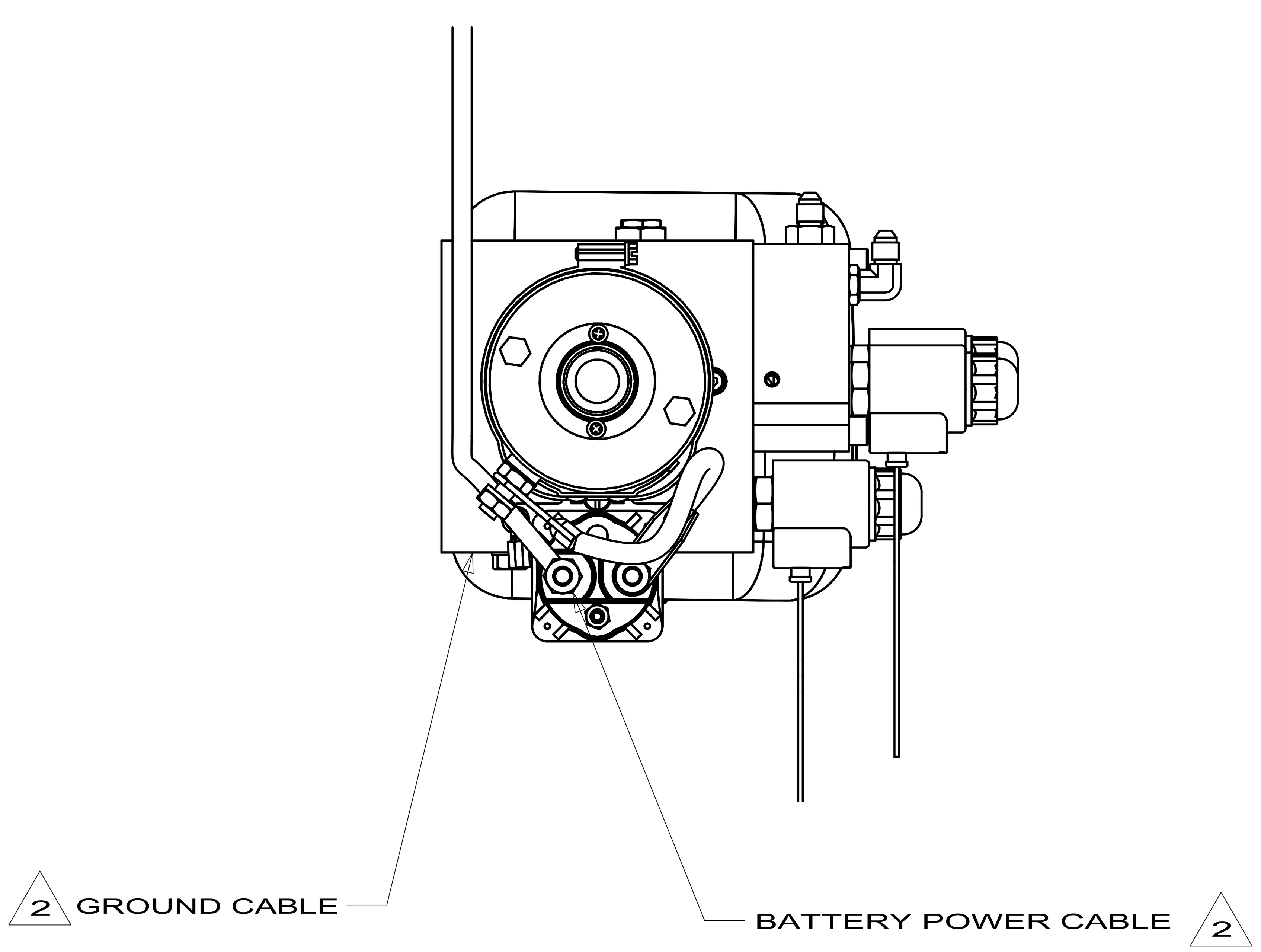
TITLE: LEVELING SYSTEM INSTL-P/G

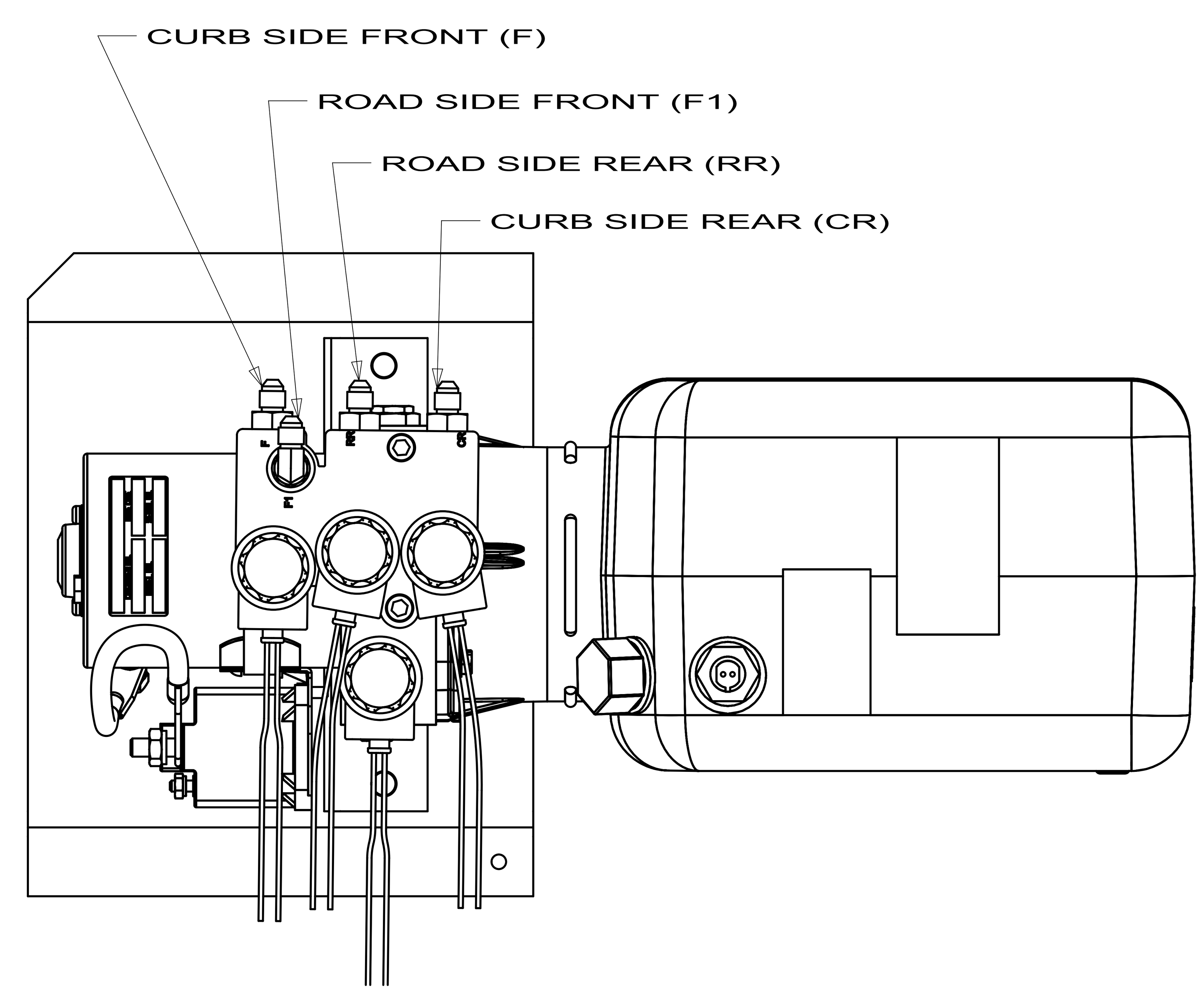
SHEET 3 | PART NO 168876 | REV

10/17/2009

DWG NO 168876







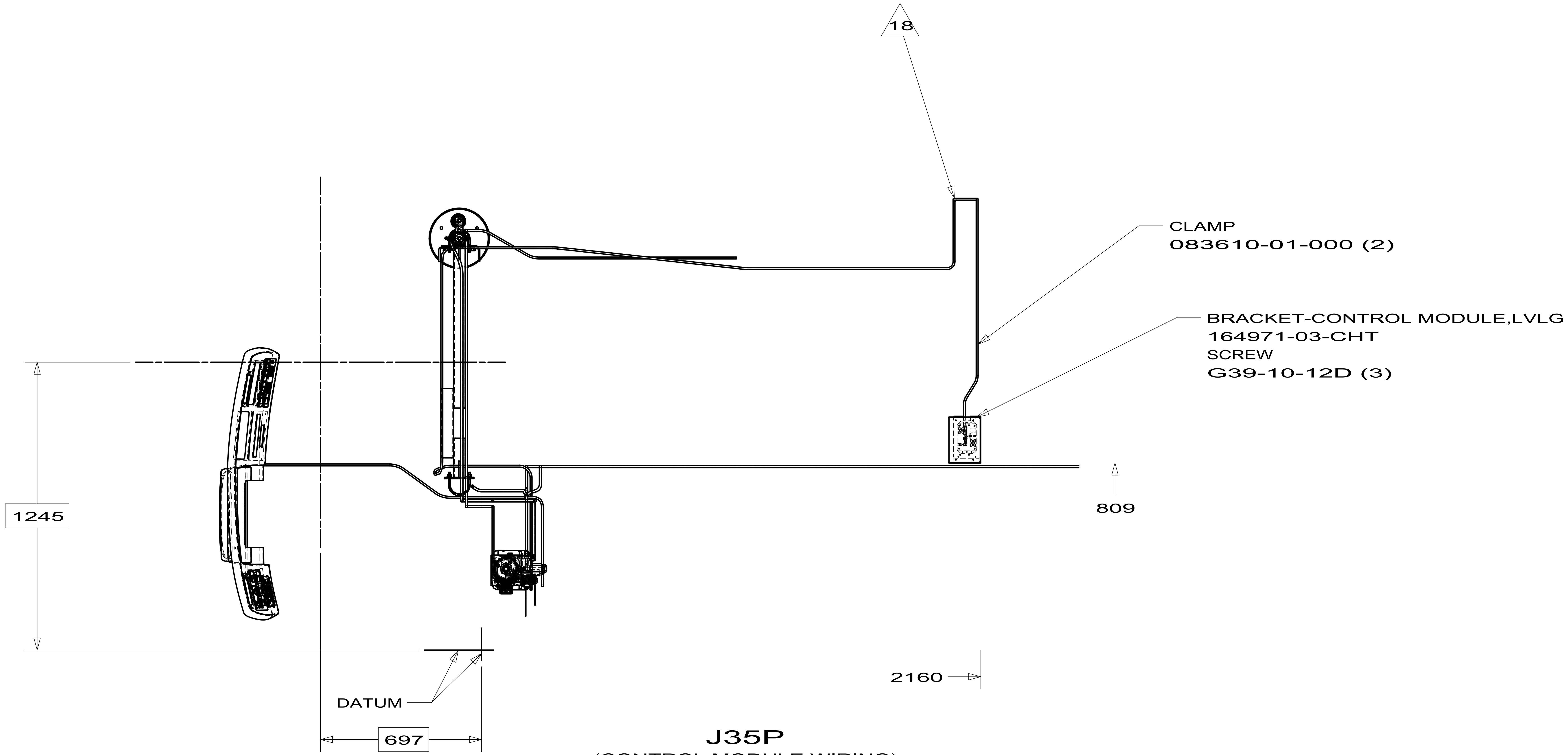
VIEW C-C

FIRST USED	10 J-SER,FL
DO NOT SCALE DRAWING	
TITLE:	LEVELING SYSTEM INSTL-P/G
SHEET 4	PART NO 168876 REV

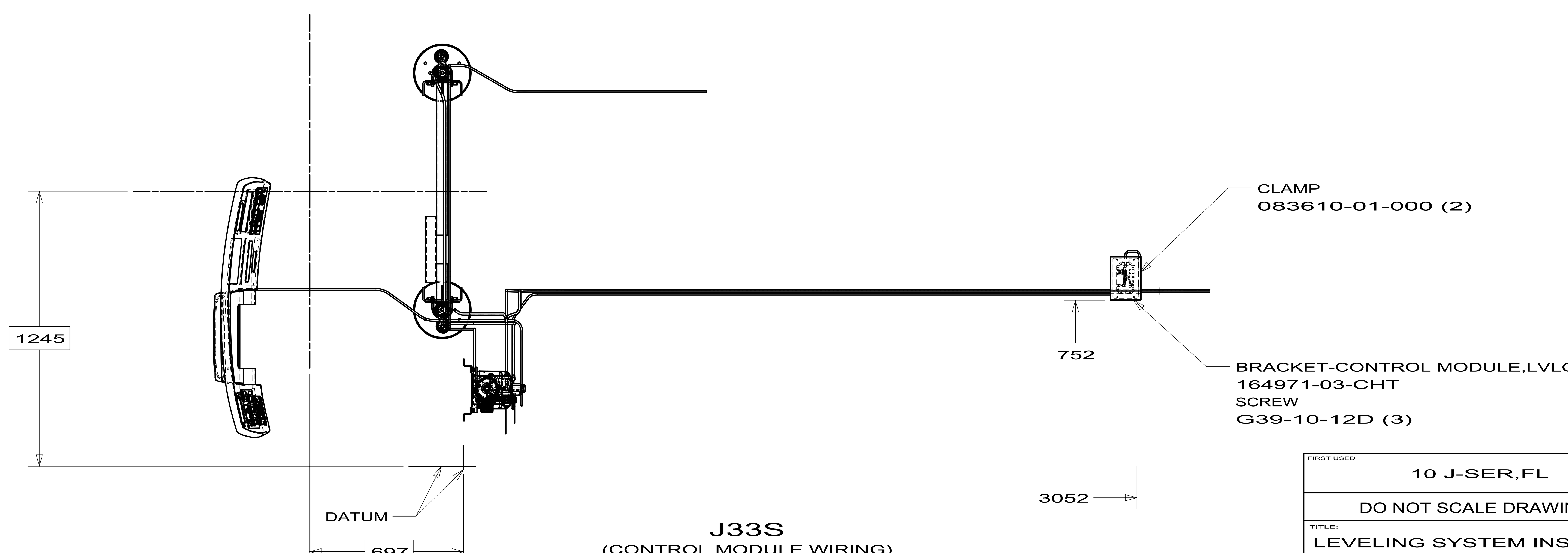
10/17/2009

8 7 6 5 4 3 2 1

DWG NO 168876



J35P
(CONTROL MODULE WIRING)



J33S
(CONTROL MODULE WIRING)

FIRST USED	10 J-SER,FL
	DO NOT SCALE DRAWING
TITLE:	LEVELING SYSTEM INSTL-P/G
SHEET 7	PART NO 168876 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	VENDOR NO.
	165119-01-700	EA	SPRING KIT - 2.5" X 17"	500094
	165119-01-701	EA	CONE/THREADED - F/SPRING	500085
	165119-01-702	EA	REBUILD KIT (SEALS)	800138S

165119-02-000

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

DWG NO 159483

2010 AND UP WHEEL TRIM MATRIX

	TIRE AND WHEELS		WHEELCOVERS		WHEEL LINERS				CHASSIS-SUPPLIED PARTS IF ORDERED W/ALUMINUM WHEEL				
	TIRE/WHEEL ∅ & 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 6 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) 50O/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" 16H 16K	ACCURIDE 29875	N/A	N/A	154672-01	REAR INNER (2)95012-09 6 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	-	-	-	-	-	- 1	KIT WITH ATTACHMENT 150723-01 5	REAR INNER (2)77030-10 5	-	-
FREIGHT LINER (REAR ENGINE) P/R SERIES 1AF 1LE	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 2	REAR 1 INSIDE 129058-06 (2)	129058-18 (2) 1	(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 6 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	225/70R 19.5"X6.0" 16N	(HAYES LAMMERZ) FORD 8U94- 1015-BA	N/A	N/A	154672-02	REAR INNER (2)95012-09 6 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) 1	(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

6 USE NUT SUPPLIED ON EXTENSION BETWEEN STABILIZER AND CAP.

CONTINUED ON NEXT PAGE

FIRST USED: 07 MOTORHOMES

DO NOT SCALE DRAWING

TITLE: WHEEL INSTL

SHEET 1 PART NO 159483 REV

2/17/2010

159483

2010 WHEEL TRIM MATRIX CONTINUED

	TIRE AND WHEELS		WHEELS AND COVERS		WHEEL LINERS				CHASSIS-SUPPLIED PARTS IF ORDERED W/ALUMINUM WHEEL				
	TIRE/WHEEL ∅ & 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 6 REAR OUTER (2)77030-10 FRONT (2)77030-10	(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 6 REAR OUTER (2)77030-01 FRONT (2)77030-10	(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
-	-	-	-	-	-	-	-	-	-				

FIRST USED	07 MOTORHOMES
	DO NOT SCALE DRAWING
TITLE:	WHEEL INSTL
SHEET 2	PART NO 159483 REV

2/17/2010

DWG NO 159483

*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.

OTHER APPLICATIONS LISTED FOR WRENCH FIT REFERENCE

2007 AND UP

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

FIRST USED: 07 MOTORHOMES

DO NOT SCALE DRAWING

TITLE: WHEEL INSTL

SHEET 3 | PART NO 159483 | REV

2/17/2010

145580-03-000

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
	110435-12-700	EA	LINER - WHEEL - FRONT	V19580-FWC
	110435-12-701	EA	LINER - WHEEL - REAR	V19580-RWC
	145580-01-702	EA	COVER-LUG NUT/JAM NUT 22M	V19582-EJN
	145580-01-703	EA	TOOL-INSTALLATION	V22501-TOL

145580-05-000

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
	145580-05-700	EA	LINER - WHEEL/FRONT - 1EA=1	V22587-FWC
	145580-05-701	EA	LINER - WHEEL/REAR - 1EA=1	V22587-RWC

145580-06-000

KEY	PART NUMBER	U/M	DESCRIPTION	VENDOR NO.
	110435-04-705	EA	DECAL-CTR HUB 2 3/4" DIAMOND	2 3/4 DECAL DIAMOND
	110435-10-702	EA	JAMB NUT W/JAMB NUT COVER	V195P7-EJN
	110435-10-705	EA	TOOL/JAMB NUT INSTALLATION	V195P7-TOL
	145580-06-700	EA	LINER - WHEEL/FRONT - 1EA=1	V195W18-FWC
	145580-06-701	EA	LINER - WHEEL/REAR - 1EA=1	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