

23-JUL-1999 : 12:50:07 : ctc03w

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PART NO.								MODEL DESCRIPTION								KIT NUMBER (REFERENCE)							
98-03234-00								SUPRA 5/6/7/8/9 SERIES - TDS - STANDBY								76-60764-09							
98-03234-02								SUPRA 5/6/7/8/9 SERIES - TDB - NO STANDBY								76-60764-14							

INSTALLATION    PROCEDURE:

1.

THE TRUCK BODY STRUCTURE MUST BE EVALUATED BY THE BODY  
MANUFACTURER TO DETERMINE ITS ABILITY TO WITHSTAND THE IMPOSED  
LOADS OVER ITS SERVICE LIFE.    THESE GUIDELINES DO NOT CONVEY  
ENDORSEMENT OR WARRANTY BY CARRIER TRANSCOLD FOR THE STRUCTURAL  
INTEGRITY OF THE TRUCK BODY.

2.

THESE UNITS ARE DESIGNED FOR 12 VOLT DC BATTERIES, NEGATIVE GROUND  
ONLY.    RECOMMENDED BATTERY TO BE A GROUP 31 BATTERY AS FOLLOWS:  
A. VENT LOCATION: SIDE VENT.  
B. AMPERAGE RATING: MINIMUM 700 COLD CRANKING AMPS @0°F[-18°C] &  
MINIMUM 545 COLD CRANKING AMPS @-20°F[-29°C].

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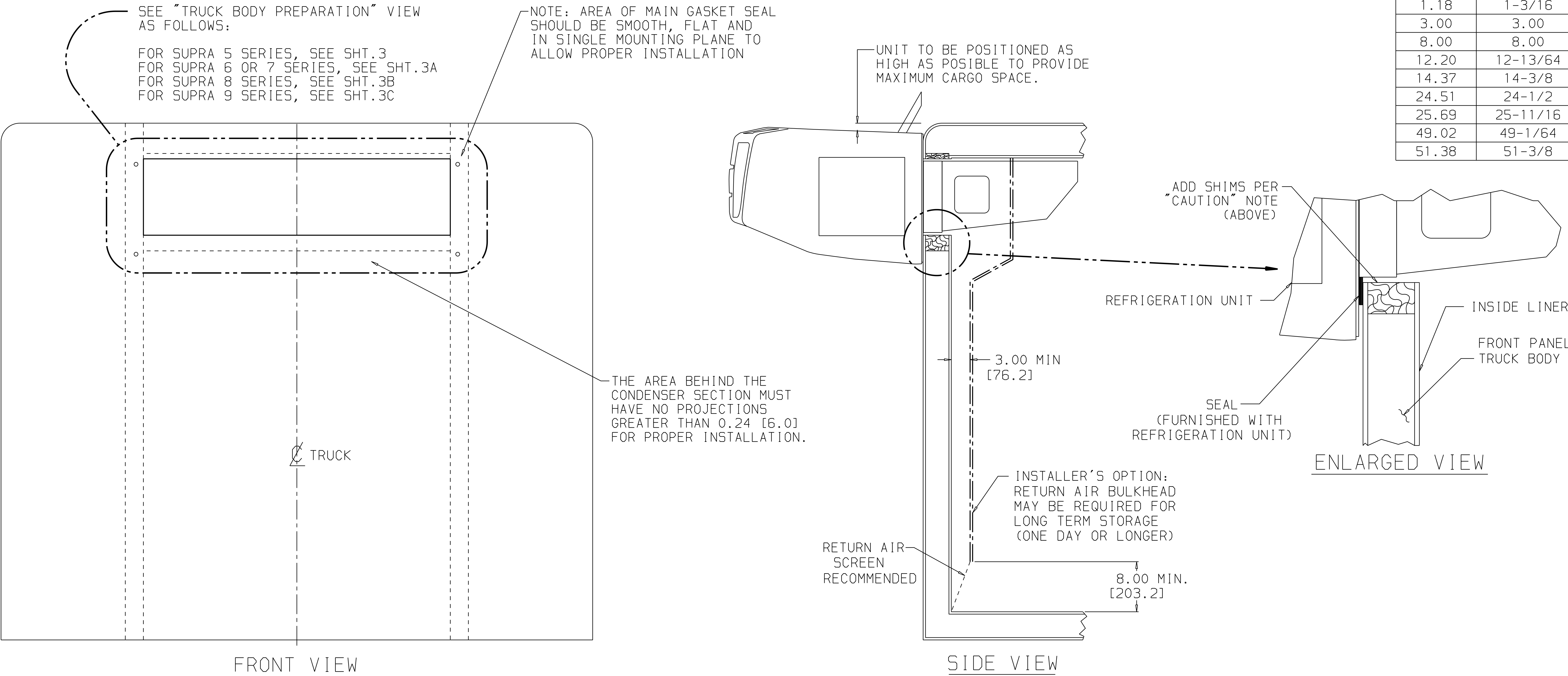
SHEET INDEX	REV	R	R	R	R	R	R	R	R	R	R	R	R	R
	SHEET	1	2	3	3A	3B	3C	4	5	5A	6	7	8	

R	UPDATED SHT. INDEX; REV'D UNIT DESIGNATION "X SERIES" WAS X50 PER ECN 71N0275P12					MGC	30 NOV 2012	SEE SEPARATE PARTS LIST											
P	UPDATED SHT. INDEX; SEE SHT's 4 & 5A PER ECN71N0255P12					MGC	1 AUG 2012												
SYM	REVISION RECORD	ENGRG.	DATE	APPL ICATION ENGRG.	DATE	DRAWN BY	DATE	SUPERSEDES	TITLE INSTALLATION INSTRUCTIONS SUPRA 5, 6, 7, 8 & 9 SERIES								DRAWING NO. 98-03234 SHT.1 OF 8		REV R

17-MAR-2000 : 15:53:28 : ctc03w

**CAUTION:** INSTALLER MUST ADD SHIM MATERIAL BETWEEN BOTTOM OF BODY OPENING AND EVAPORATOR ACROSS ITS FULL WIDTH.

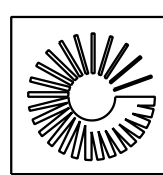
CONVERSION CHART	
DECIMAL INCHES	FRACTIONAL INCHES
0.24	15/64
0.63	5/8
0.87	7/8
1.18	1-3/16
3.00	3.00
8.00	8.00
12.20	12-13/64
14.37	14-3/8
24.51	24-1/2
25.69	25-11/16
49.02	49-1/64
51.38	51-3/8



TRUCK BODY PREPARATION

NOTE:  
1.0 ALL DIMENSIONS SHOWN ARE INCHES,  
WITH METRIC CONVERSIONS IN [MILLIMETERS].

R	REV'D UNIT DESIGNATION "X SERIES" WAS "X50" PER ECN 71N0275P12					MGC	30 NOV 2012	SUPERSEDES	TITLE	INSTALLATION INSTRUCTIONS SUPRA 5, 6, 7, 8 & 9 SERIES	DRAWING NO. 98-03234 SHT. 2 OF	REV R
G	ADDED SUPRA 950 TO DESCRIPTION; ADDED CALLOUT: "FOR SUPPRA 950, SEE SHT.3C" PER IPCA71N200GP06, SHT.87					MGC	8 NOV 2006					
SYM	REVISION RECORD	ENGRG.	DATE	APPLICATION ENGRG.	DATE	DRAWN BY	DATE					

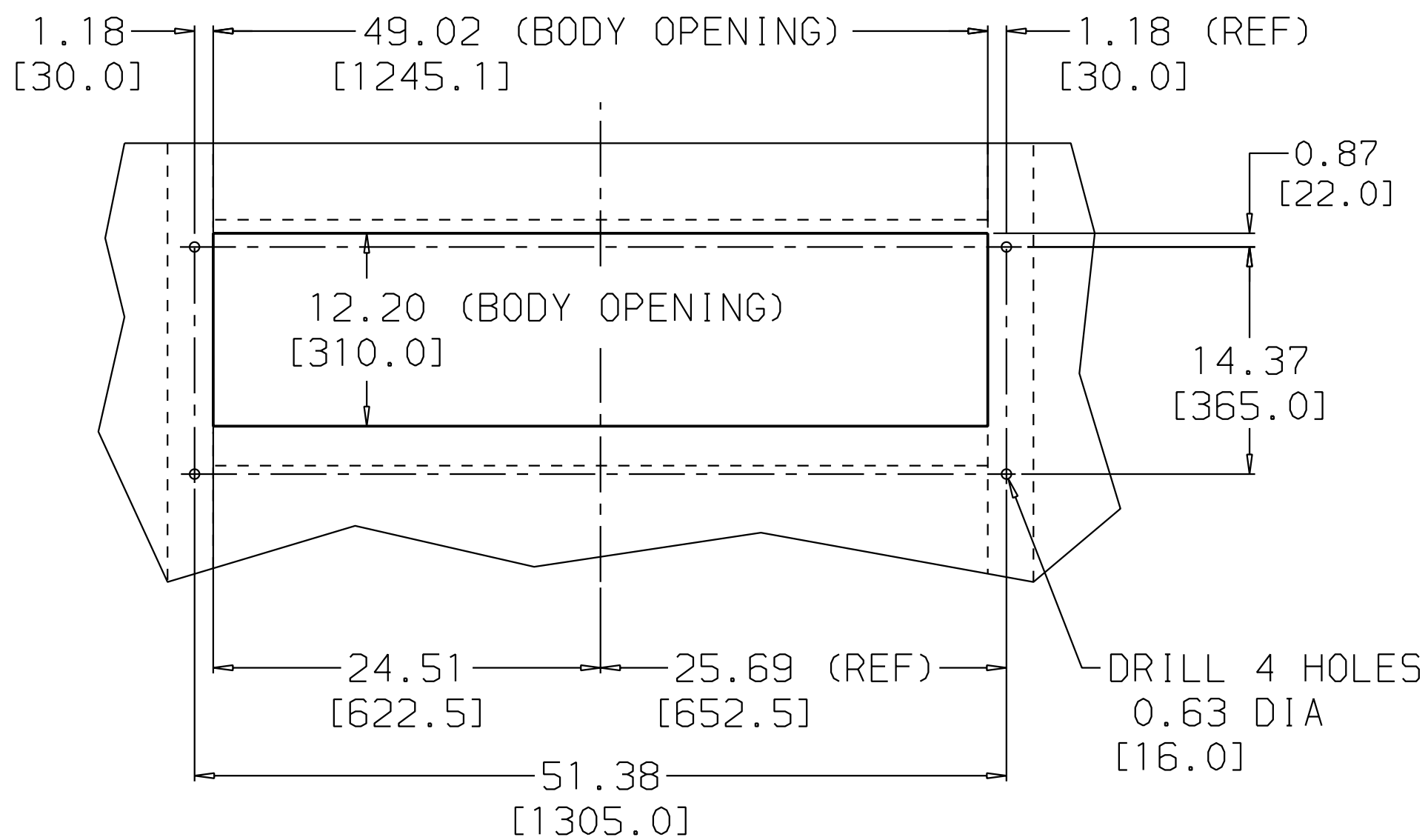


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Carrier Transcold Division  
Carrier Corporation  
P.O. Box 4805  
Syracuse, New York 13221

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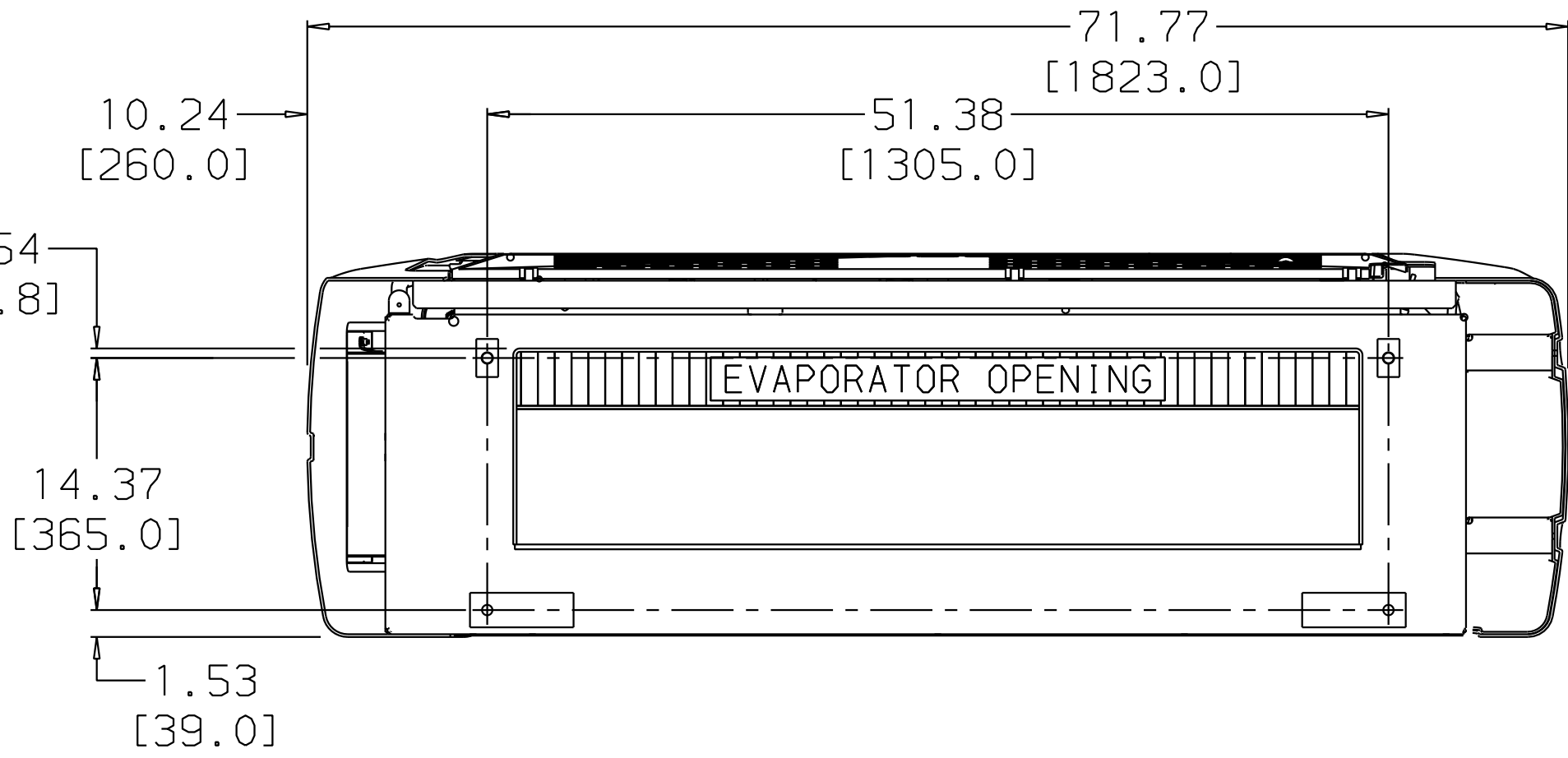
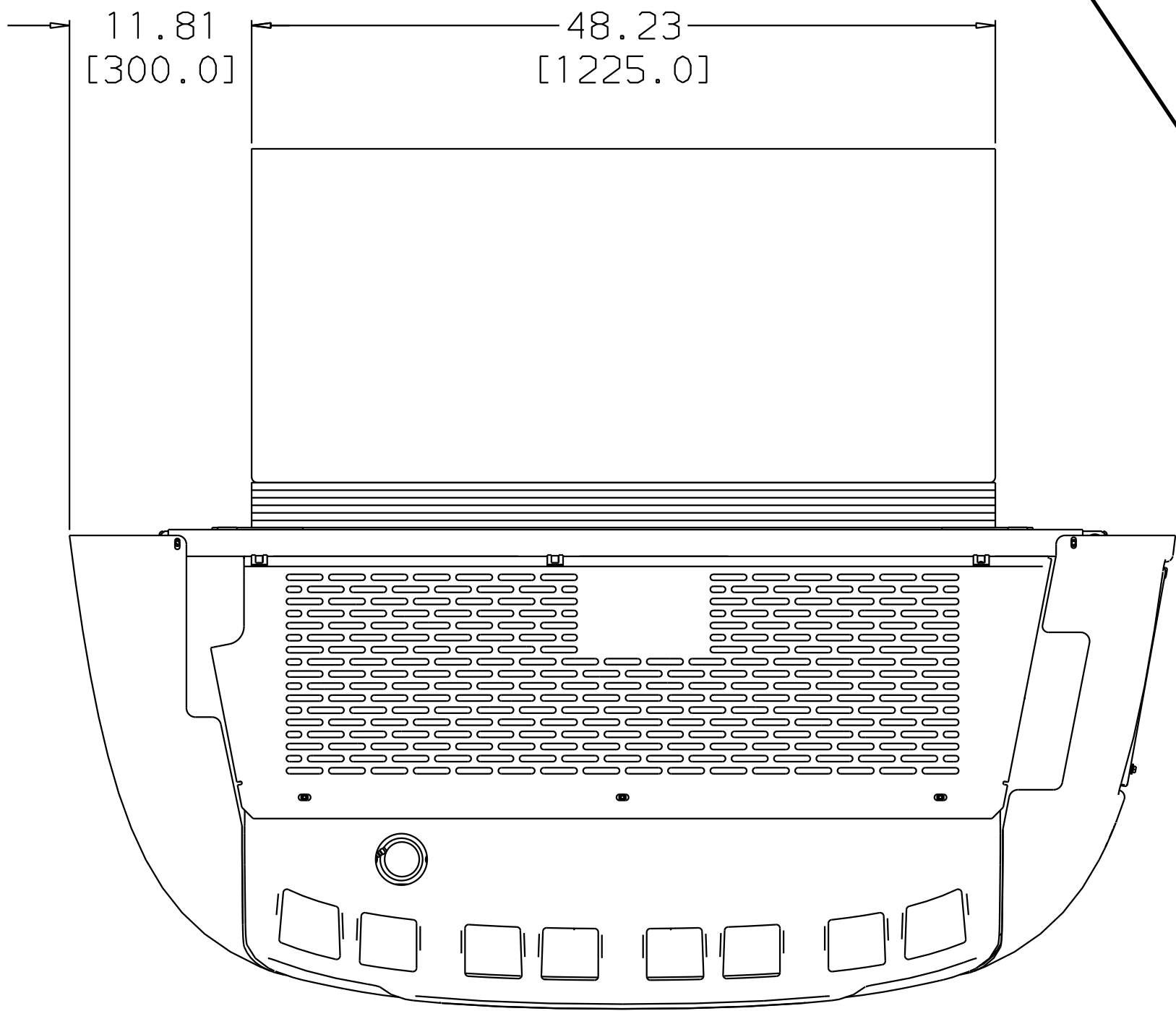
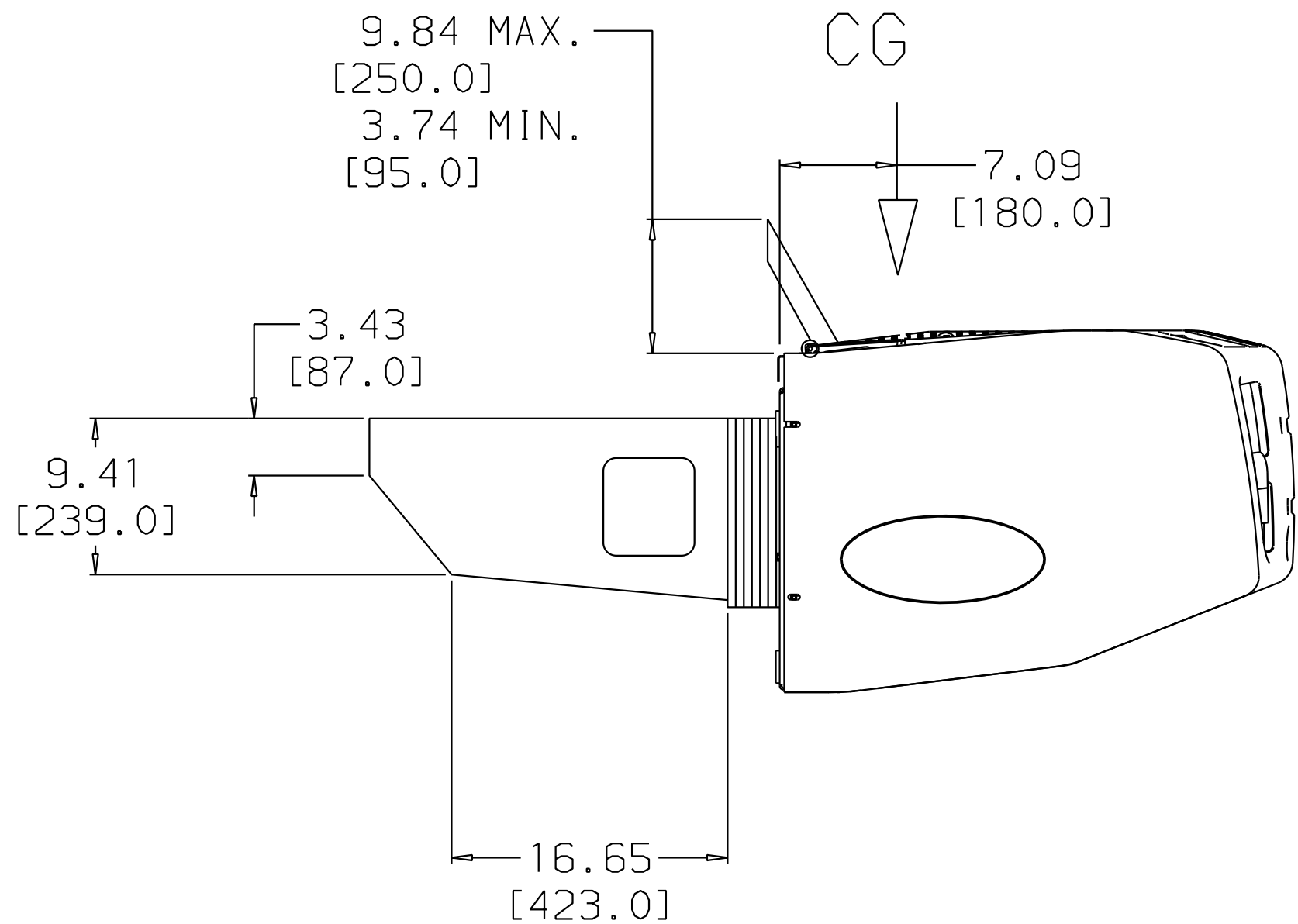


### TRUCK BODY PREPARATION

(FRONT (OUTSIDE) VIEW OF TRUCK BODY)

#### NOTES:

- 1.0 ALL DIMENSIONS SHOWN ARE INCHES, WITH METRIC CONVERSIONS IN [MILLIMETERS].
- 2.0 A= EXHAUST PIPE

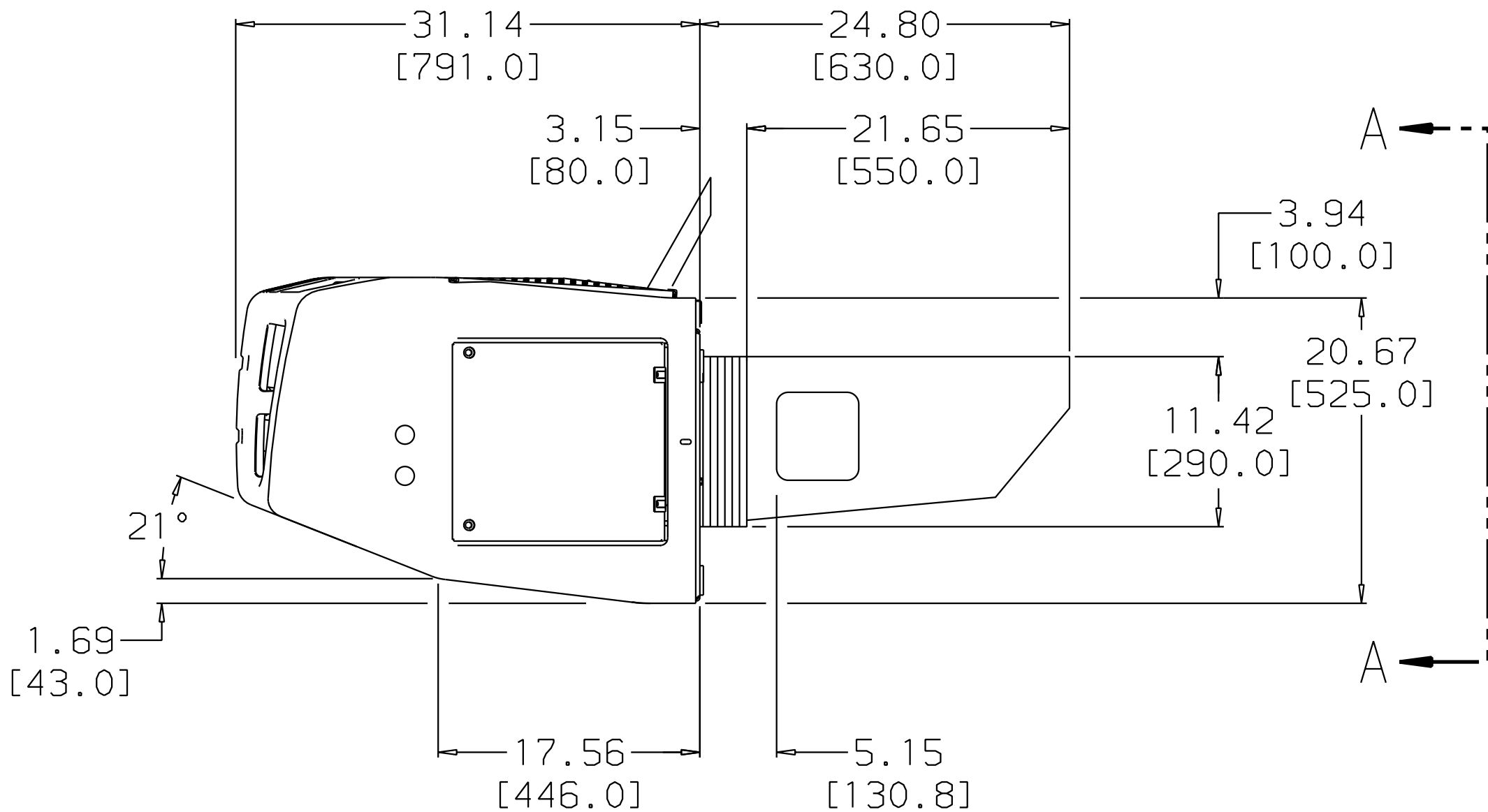
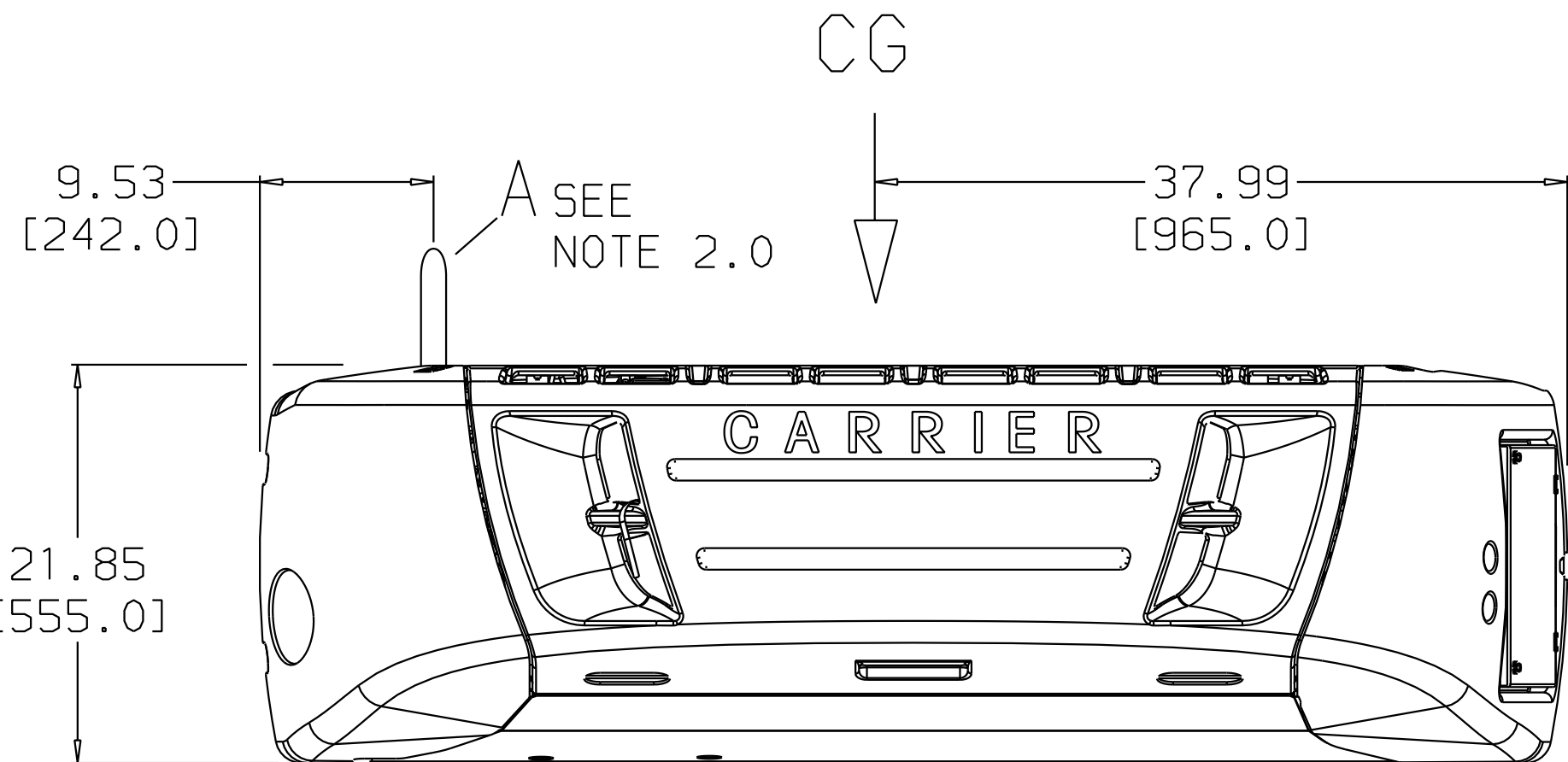


### VIEW A-A

(REAR VIEW OF UNIT)

MODEL	DESCRIPTION	WEIGHT
SUPRA 5 SERIES WITHOUT STANDBY TDB	w/o LOW NOISE	818 Lbs [371 Kg]
	w/ LOW NOISE	825 Lbs [374 Kg]
SUPRA 5 SERIES WITH STANDBY TDS	w/o LOW NOISE	862 Lbs [391 Kg]
	w/ LOW NOISE	869 Lbs [394 Kg]

\*(WEIGHT INCLUDES WATER, OIL, REFRIGERANT, ETC.)



## UNIT DIMENSIONAL DATA - 5 SERIES

R	REV'D UNIT DESIGNATION "X SERIES" WAS "X50" PER ECN 71N0275P12					MGC	30 NOV 2012
C	ADDED "BODY PREPARATION" VIEW PER PCA71N2116P05					MGC	15 SEPT 2005
SYM	REVISION RECORD	ENGRG.	DATE	NPCA NO.	DATE	DRAWN BY	DATE

SUPSEDES

TITLE

INSTALLATION INSTRUCTIONS  
SUPRA 5 SERIES

DRAWING NO.

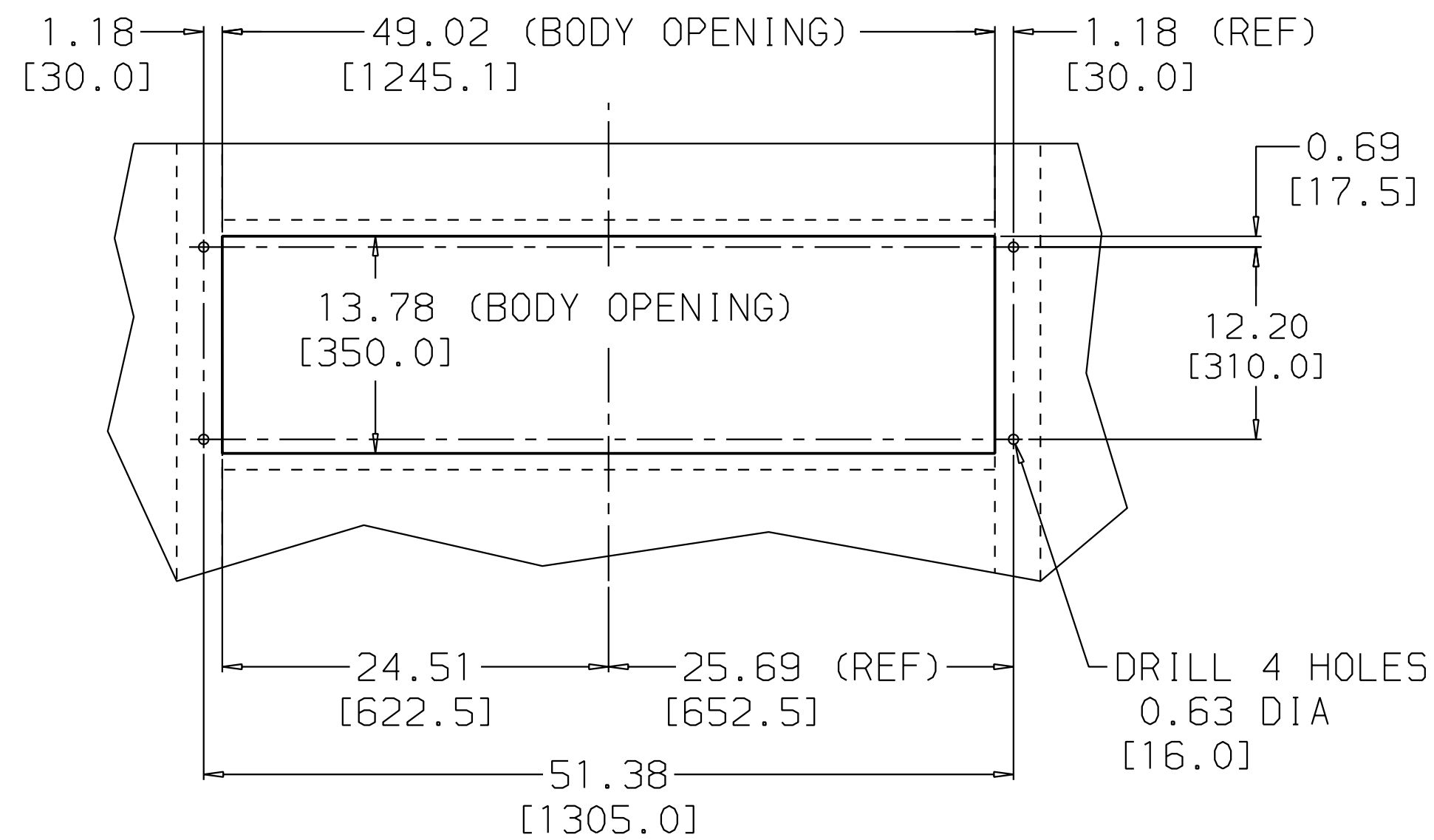
98-03234

SHT. 3 OF

REV

R

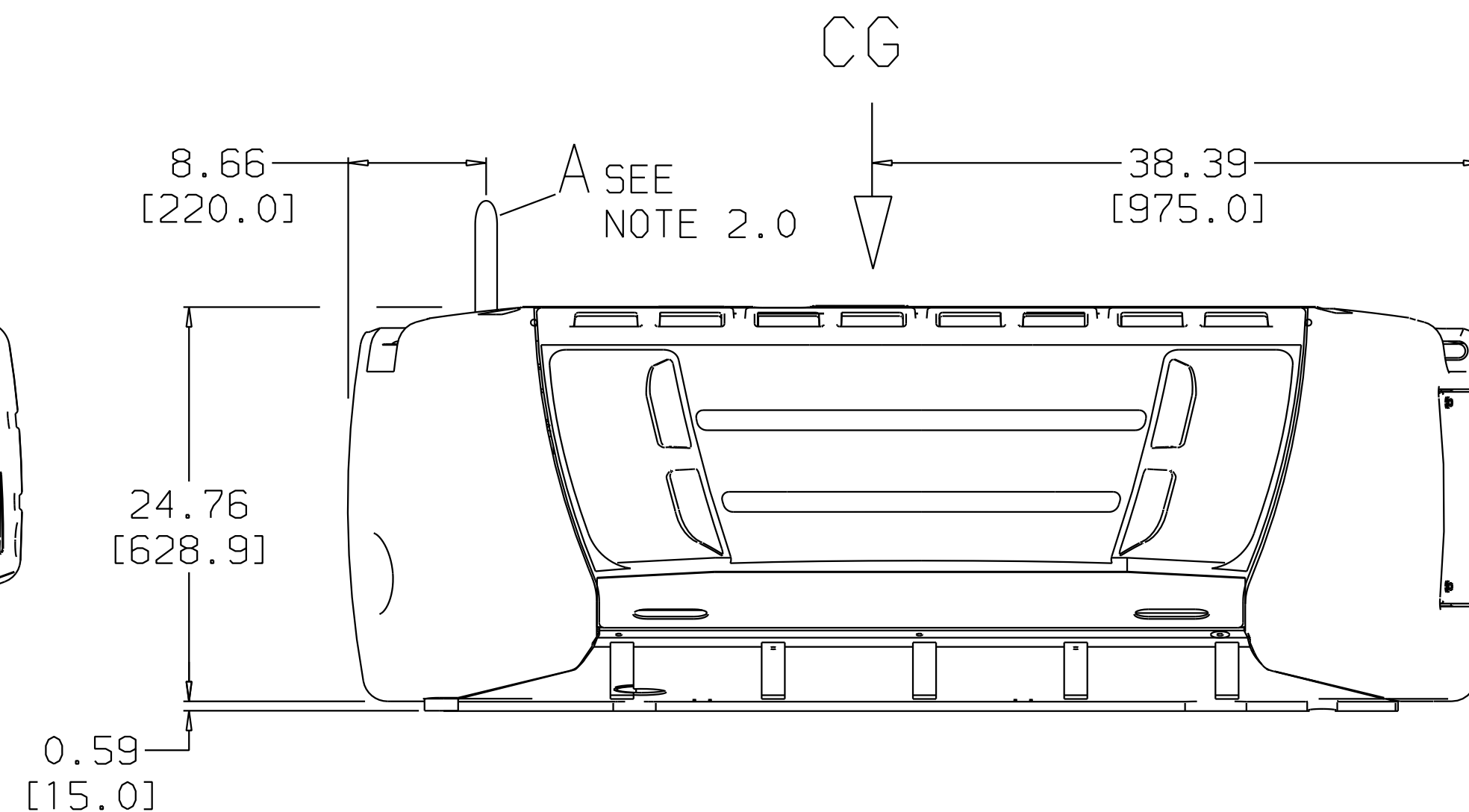
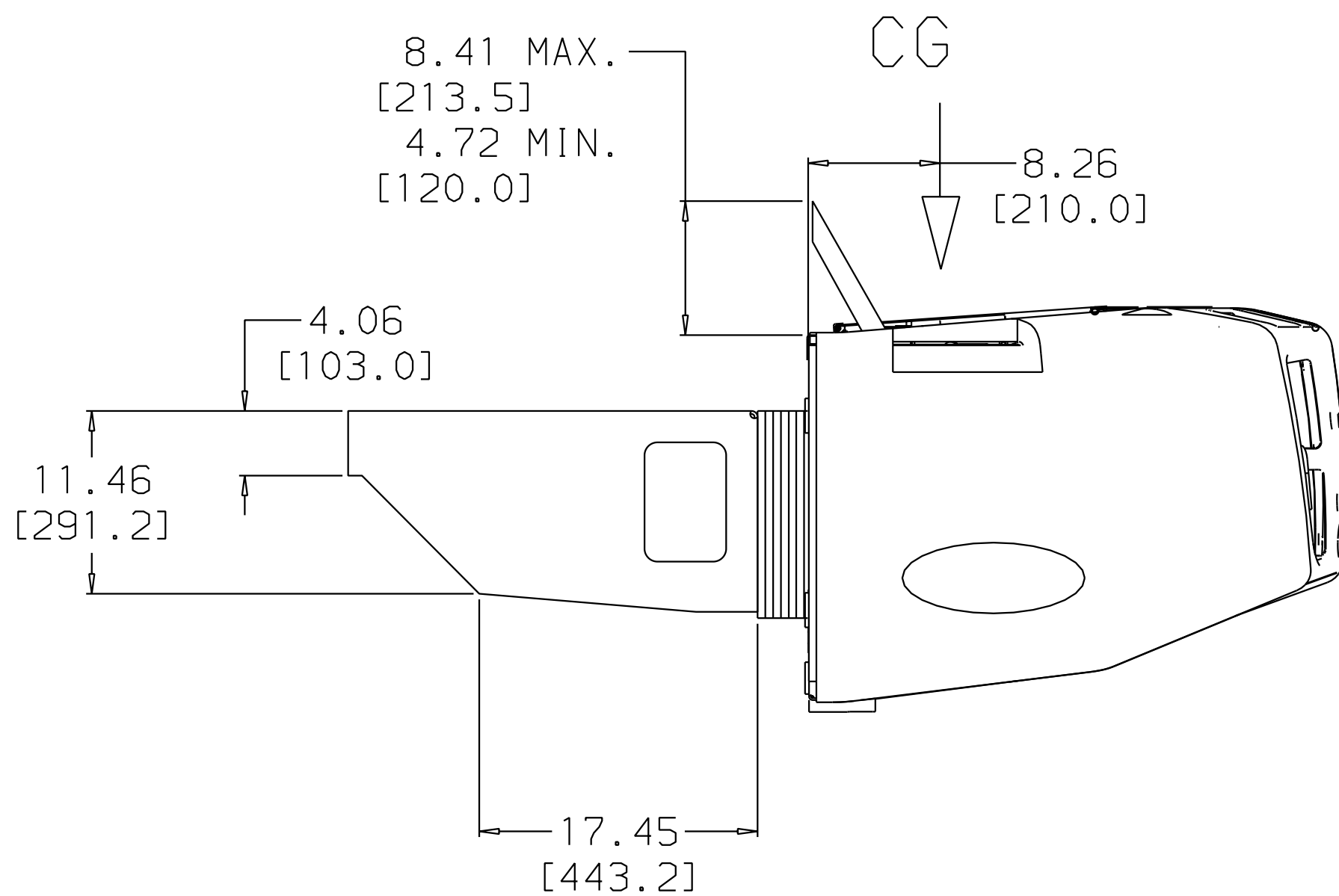




TRUCK BODY PREPARATION  
(FRONT (OUTSIDE) VIEW OF TRUCK BODY)  
FROM SHT.2

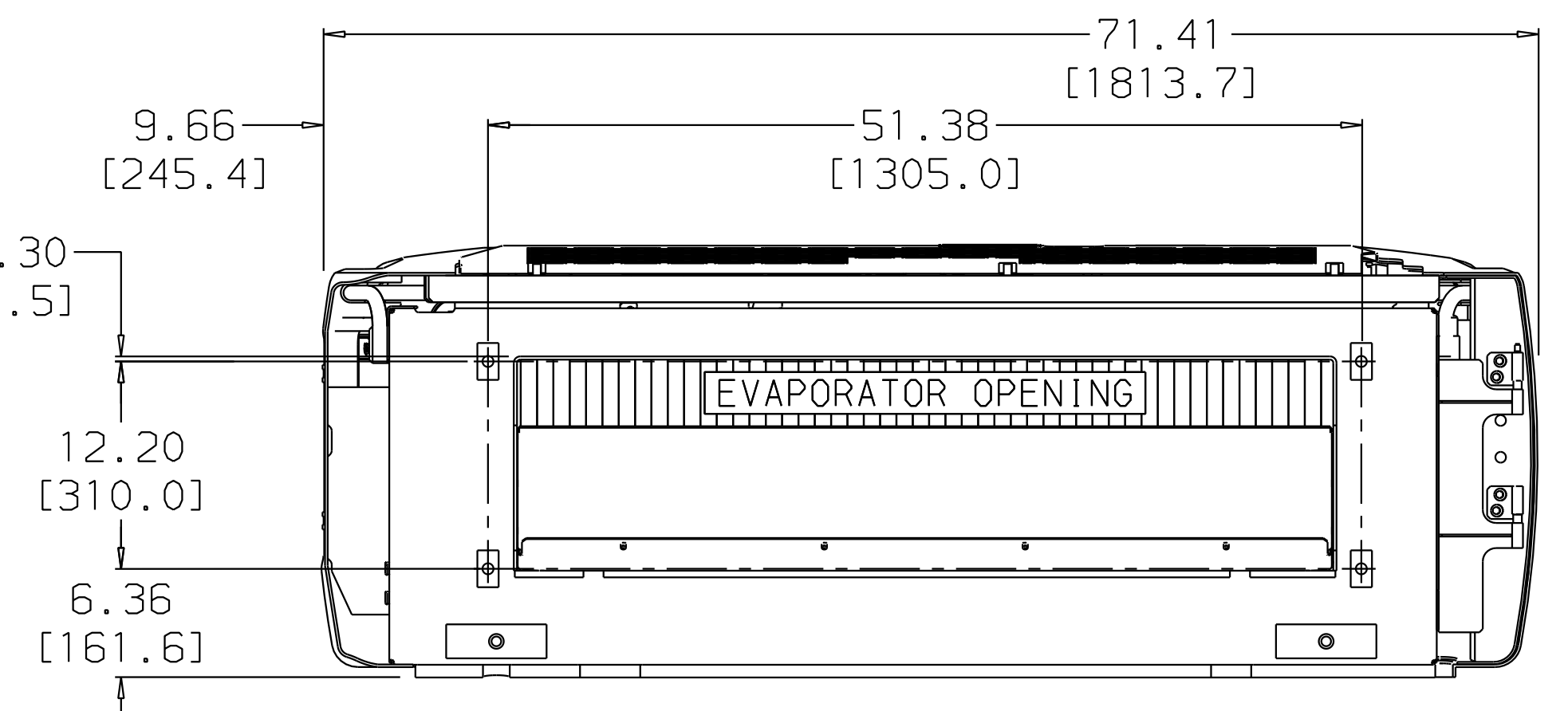
NOTES:

- 1.0 ALL DIMENSIONS SHOWN ARE INCHES, WITH METRIC CONVERSIONS IN [MILLIMETERS].
- 2.0 A= EXHAUST PIPE



TOP OF EVAPORATOR  
IS HIGHER THAN THE  
UNIT MOUNTING HOLES.

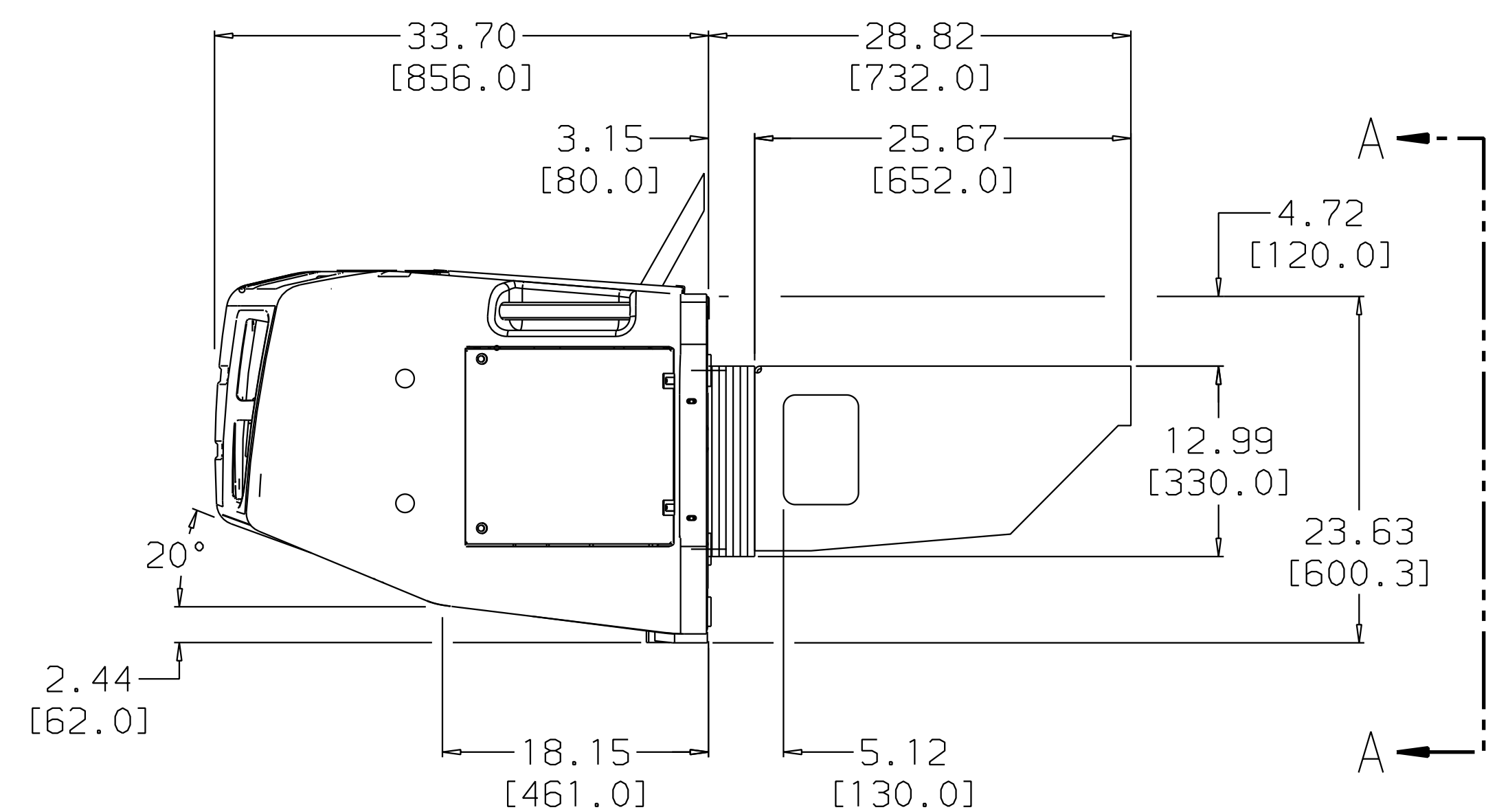
0.30 [7.5]



VIEW A-A  
(REAR VIEW OF UNIT)

UNIT WEIGHT		
MODEL	DESCRIPTION	WEIGHT
SUPRA 8 SERIES	w/o STANDBY (TDB)	1020 Lbs 462 Kg]
	w/ STANDBY (TDS)	1055 Lbs [478 Kg]

\*(WEIGHT INCLUDES WATER, OIL, REFRIGERANT, ETC.)



UNIT DIMENSIONAL DATA - 8 SERIES

R	REV'D UNIT DESIGNATION "X SERIES" WAS "X50" PER ECN 71N0275P12					MGC	30 NOV 2012
D	REV'D UNIT WEIGHTS PER IPCA71N200GP05, SHT.88					MGC	2 NOV 2005
SYM	REVISION RECORD	ENGRG.	DATE	NPCA NO.	DATE	DRAWN BY	DATE

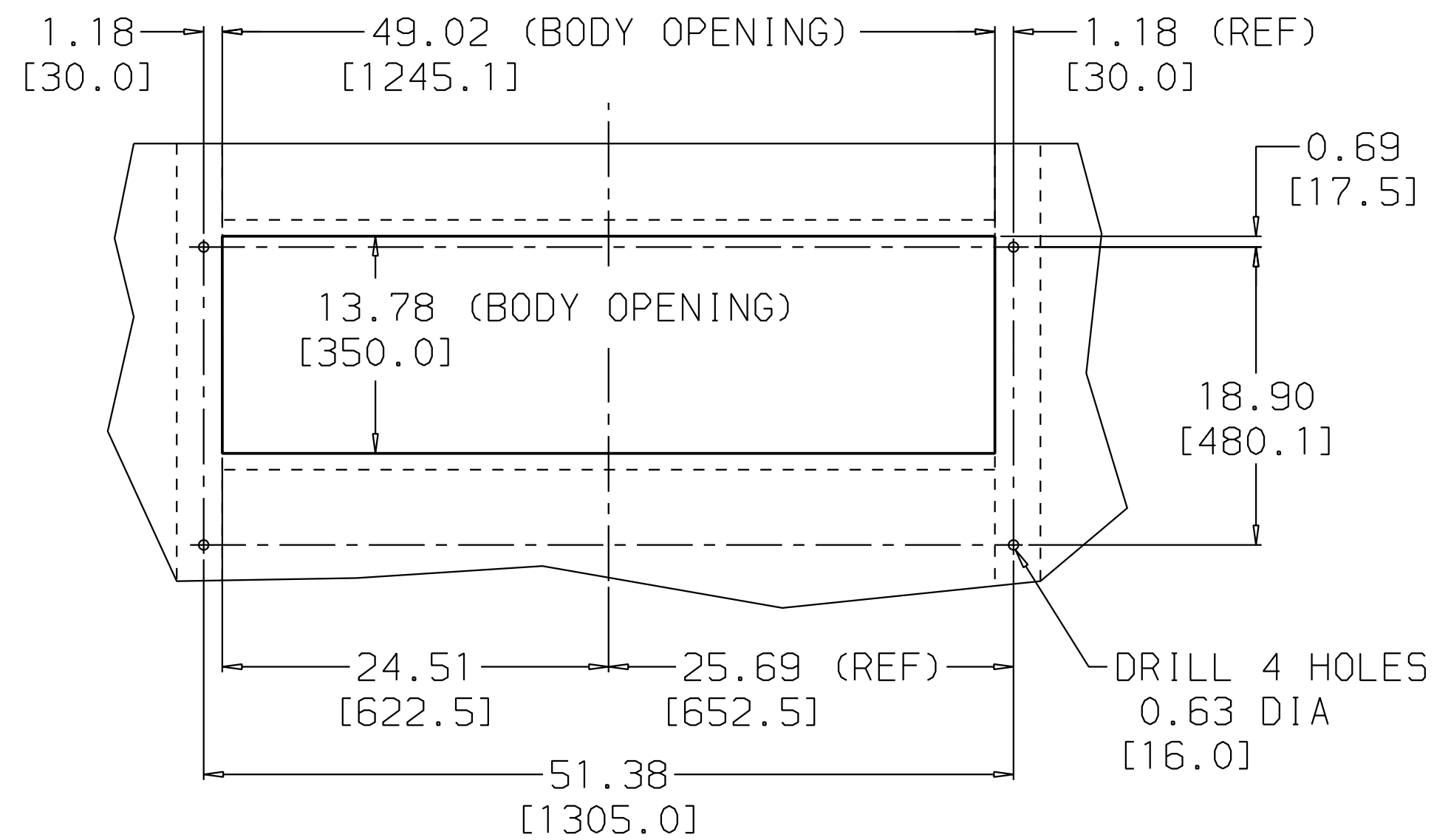
SUPSEDES

TITLE

INSTALLATION INSTRUCTIONS  
SUPRA 8 SERIES

DRAWING NO.  
98-03234  
SHT.38 OF

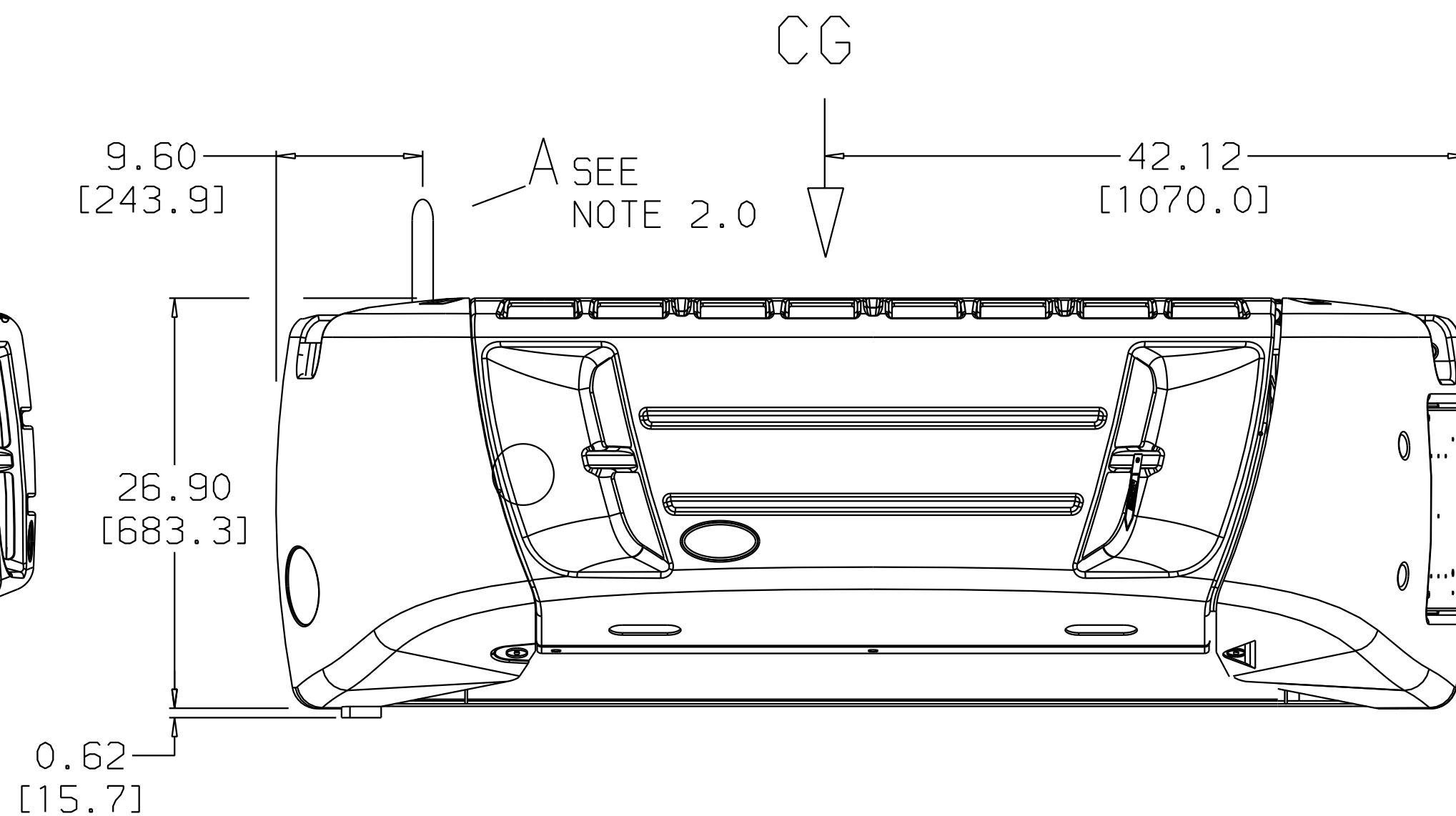
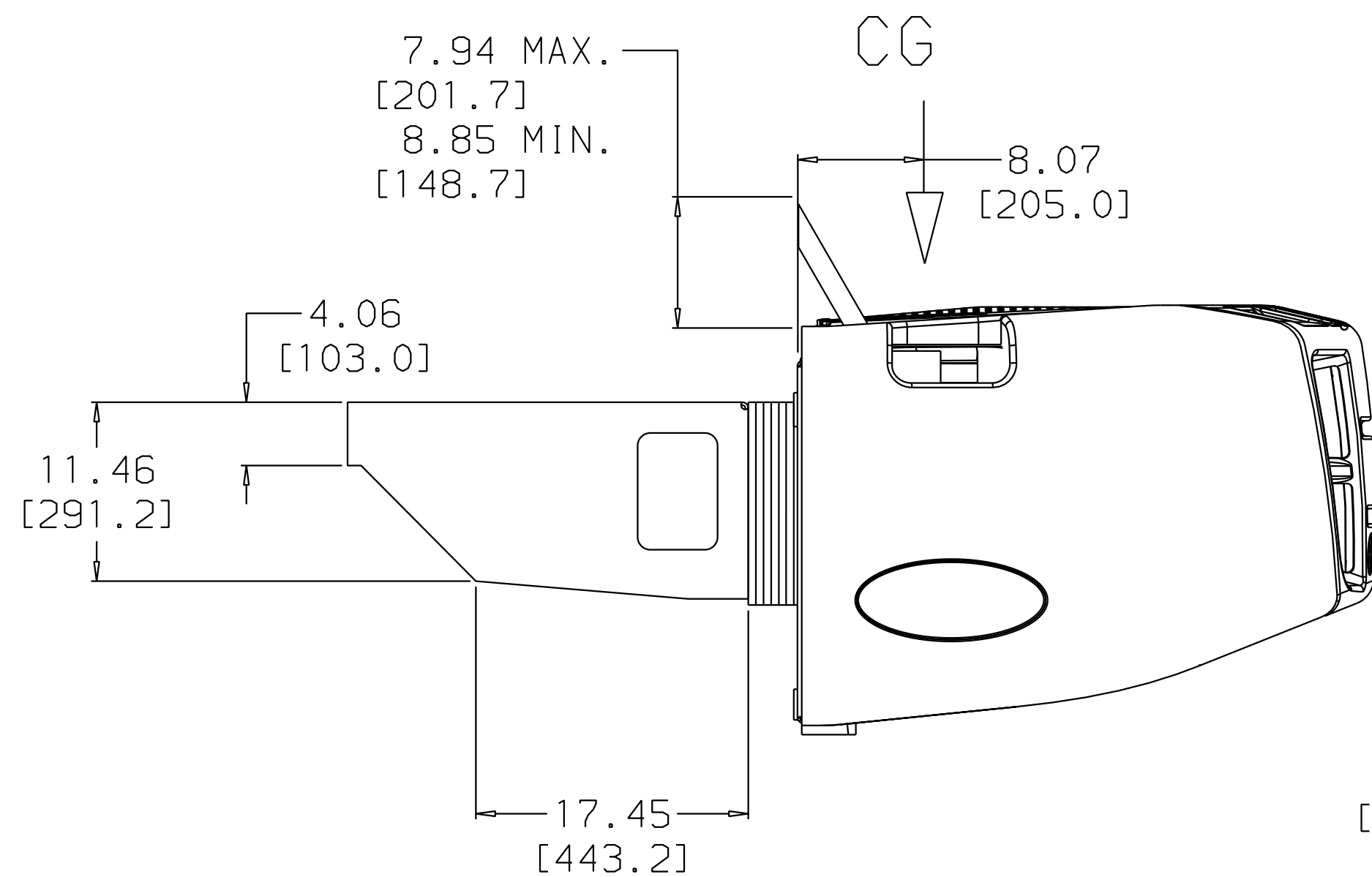
REV  
R



TRUCK BODY PREPARATION  
(FRONT (OUTSIDE) VIEW OF TRUCK BODY)  
FROM SHT.2

NOTES:

- 1.0 ALL DIMENSIONS SHOWN ARE INCHES, WITH METRIC CONVERSIONS IN [MILLIMETERS].
- 2.0 A= EXHAUST PIPE

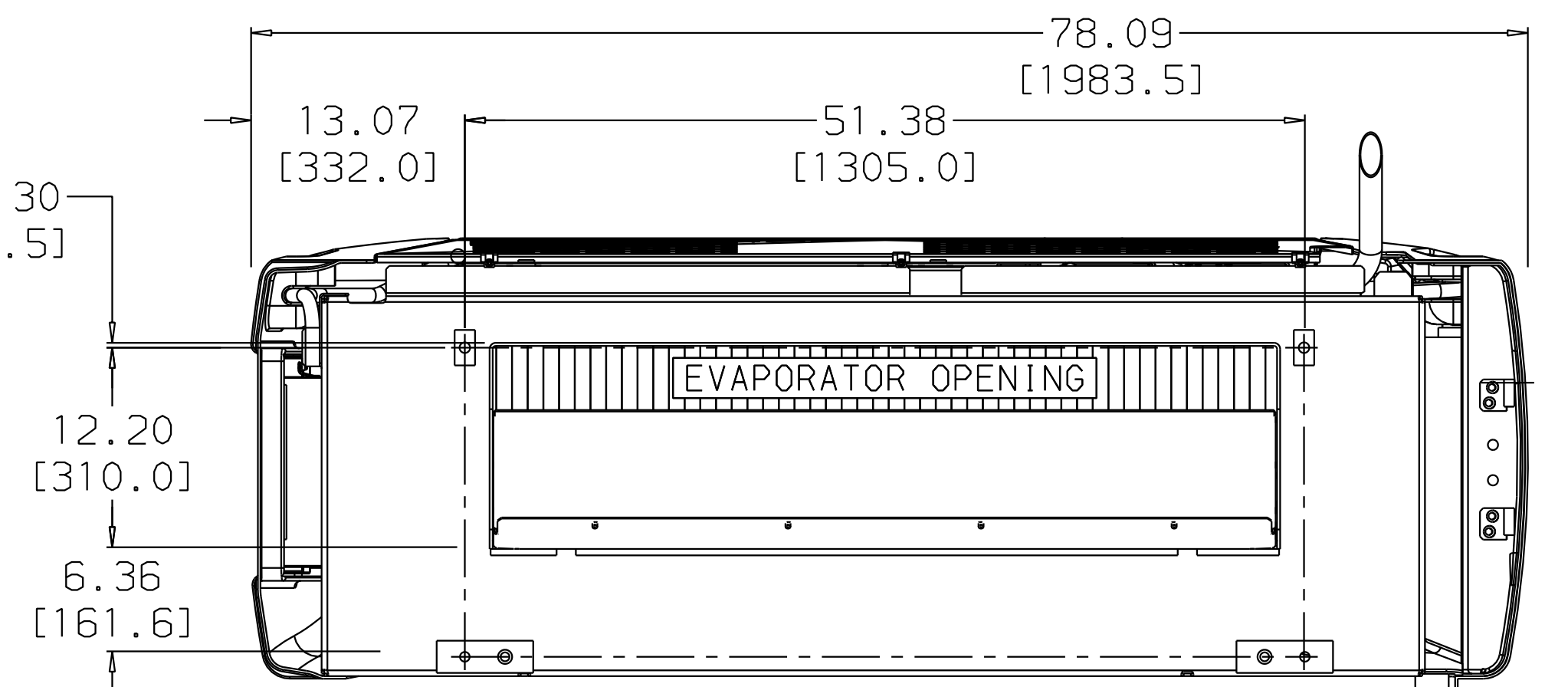


TOP OF EVAPORATOR  
IS HIGHER THAN  
THE UNIT MOUNTING  
HOLES.

0.30  
[7.5]

12.20  
[310.0]

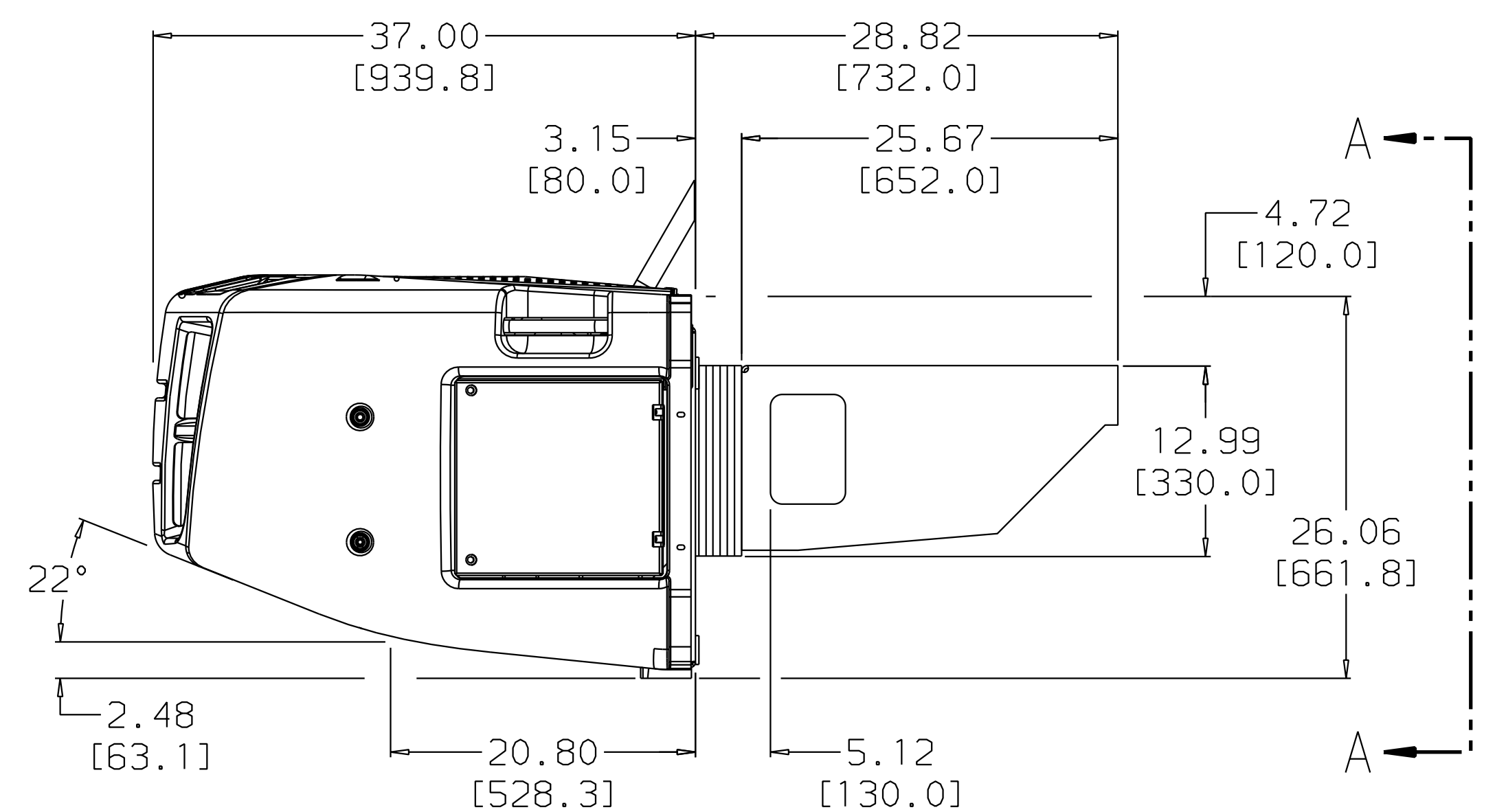
6.36  
[161.6]



VIEW A-A  
(REAR VIEW OF UNIT)

MODEL	DESCRIPTION	WEIGHT
SUPRA 9 SERIES WITHOUT STANDBY TDB	w/o LOW NOISE	1256 lbs [570 Kg]
	w/ LOW NOISE	1290 lbs [585 Kg]
SUPRA 9 SERIES WITH STANDBY TDS	w/o LOW NOISE	1300 lbs [590 Kg]
	w/ LOW NOISE	1334 lbs [605 Kg]

\*(WEIGHT INCLUDES WATER, OIL, REFRIGERANT,  
ETC.)



UNIT DIMENSIONAL DATA - 9 SERIES

R	REV'D UNIT DESIGNATION "X SERIES" WAS "X50" PER ECN 71N0275P12					MGC	30 NOV 2012
G	ADDED THIS SHT. PER PCA71N200GP06, SHT.87					MGC	8 NOV 2006
SYM	REVISION RECORD	ENGRG.	DATE	NPCA NO.	DATE	DRAWN BY	DATE

SUPSEDES

TITLE

INSTALLATION INSTRUCTIONS  
SUPRA 9 SERIES

DRAWING NO.

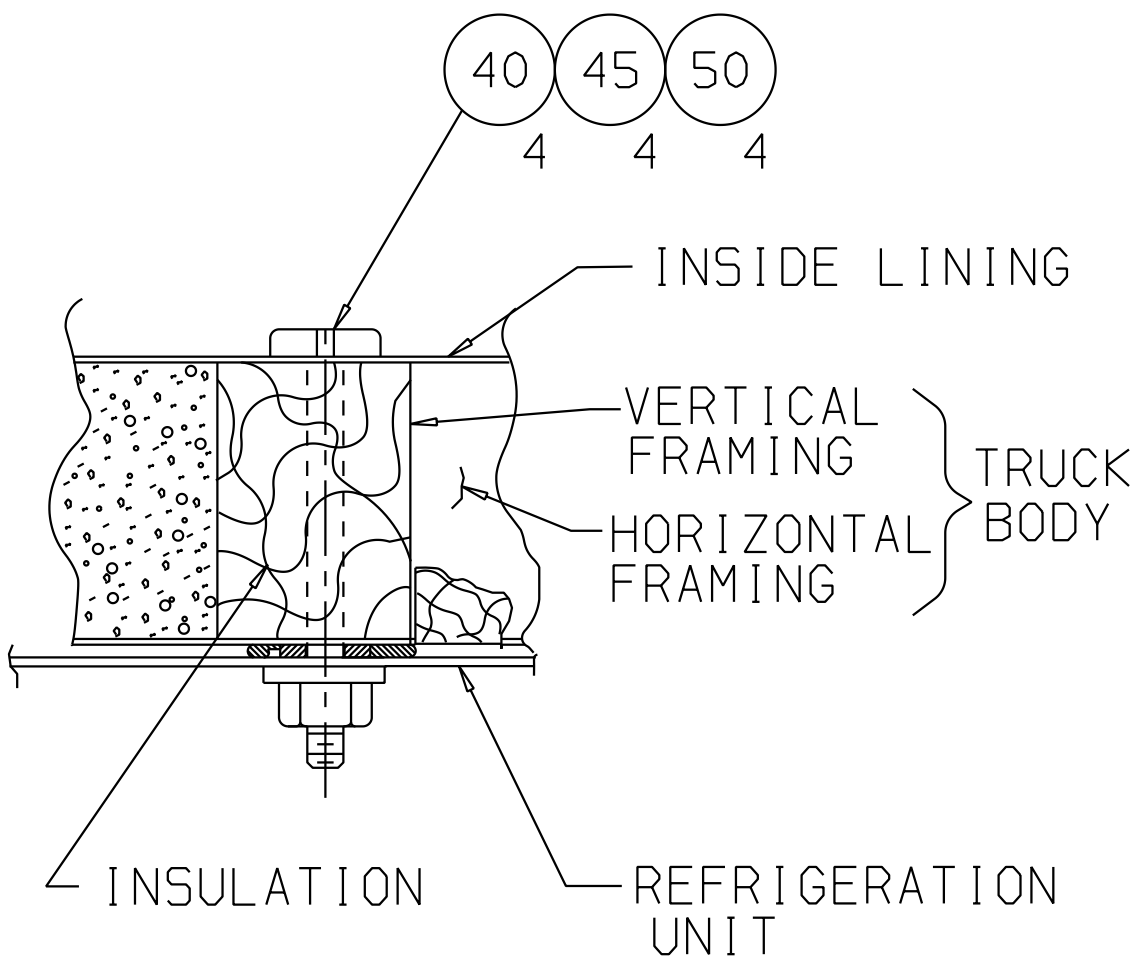
98-03234  
SHT.3C OF

REV

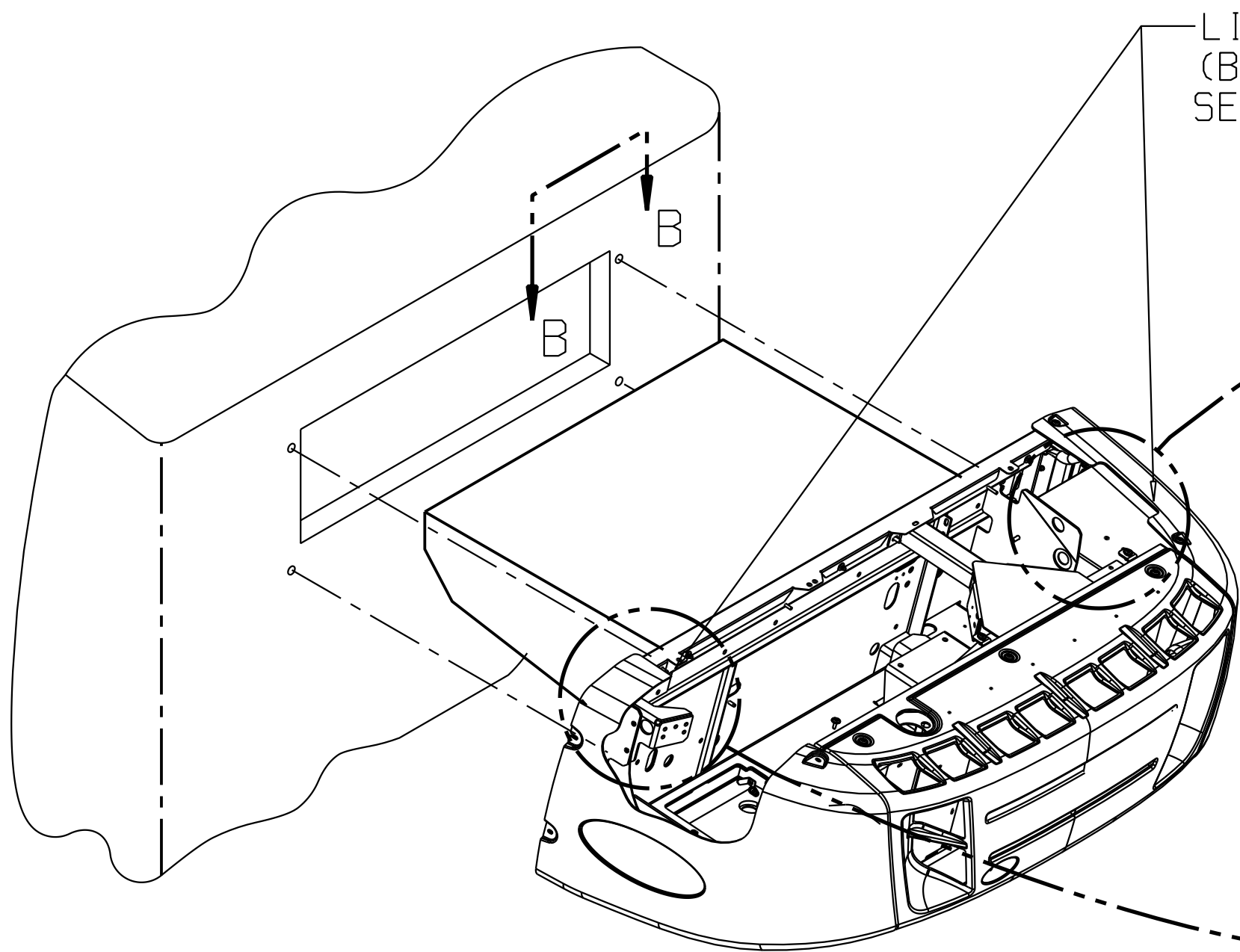
R



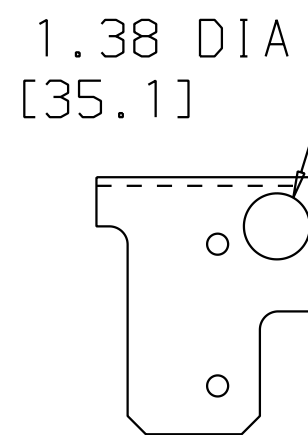
1. **CAUTION:** A SPREADER BAR MUST BE USED TO LIFT UNIT.  
ADJUST SPREADER BAR TO BALANCE UNIT BEFORE LIFTING. (LIFT OVER C.G.)
2. FASTEN REFRIGERATION UNIT TO TRUCK BODY. TORQUE MOUNTING BOLTS TO 60 FT/LBS[81 Nm].



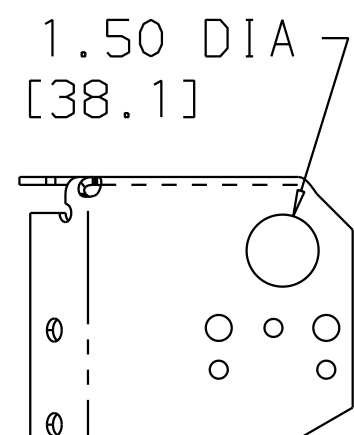
SECTION B-B



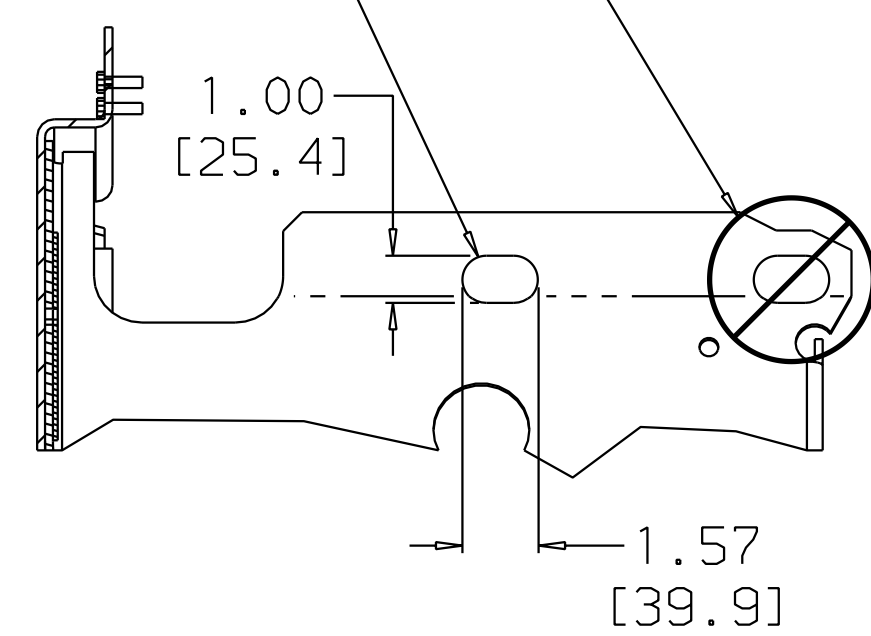
LIFTING LOCATIONS  
(BOTH SIDES)  
SEE NOTE 1



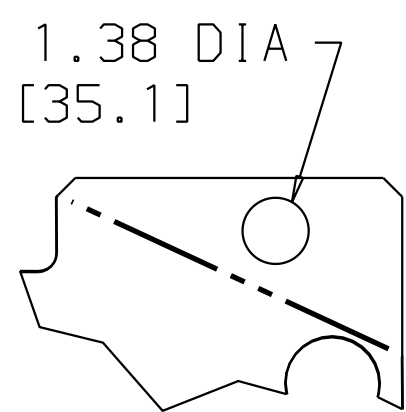
5 SERIES



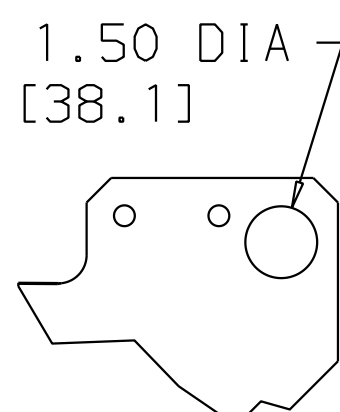
6, 7, 8 & 9 SERIES



9 SERIES

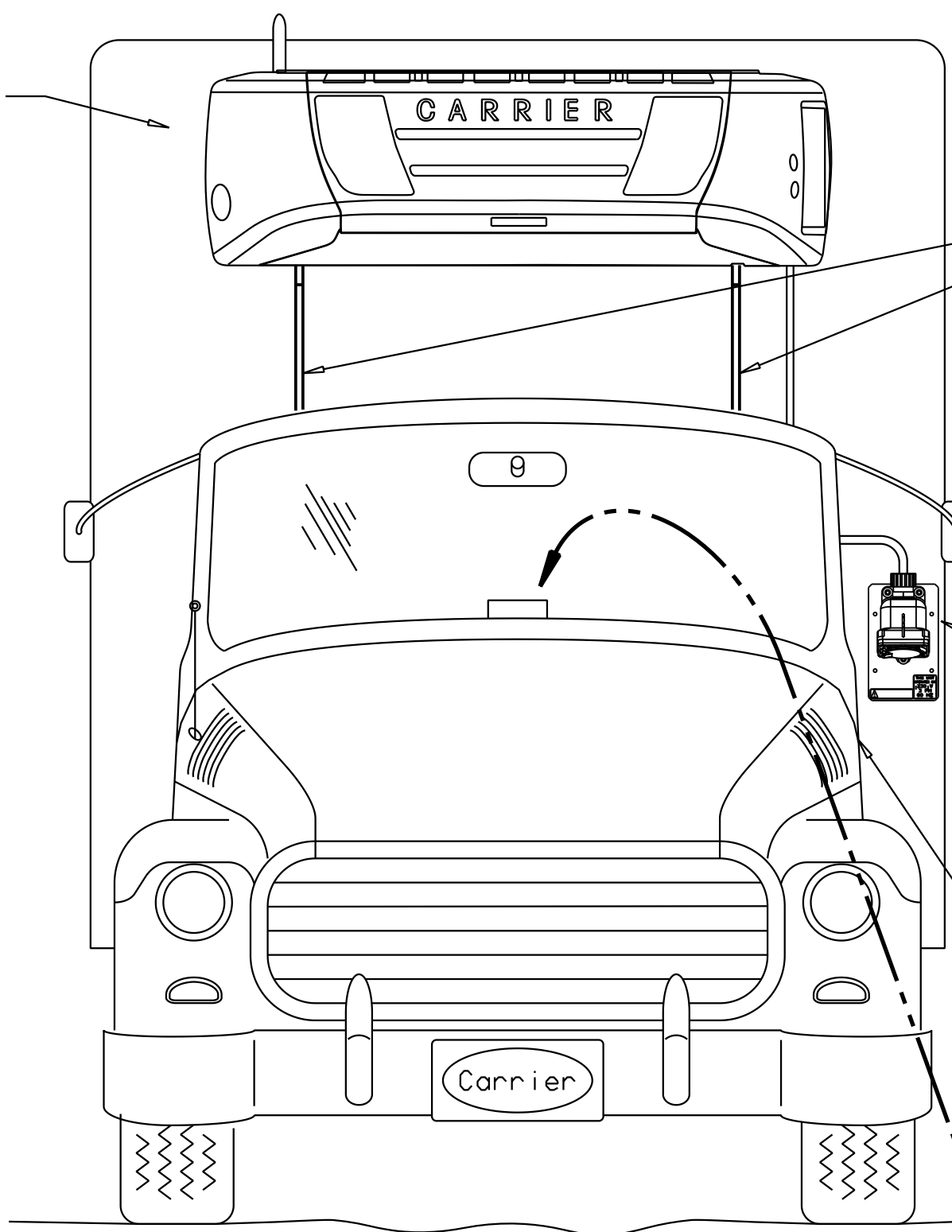
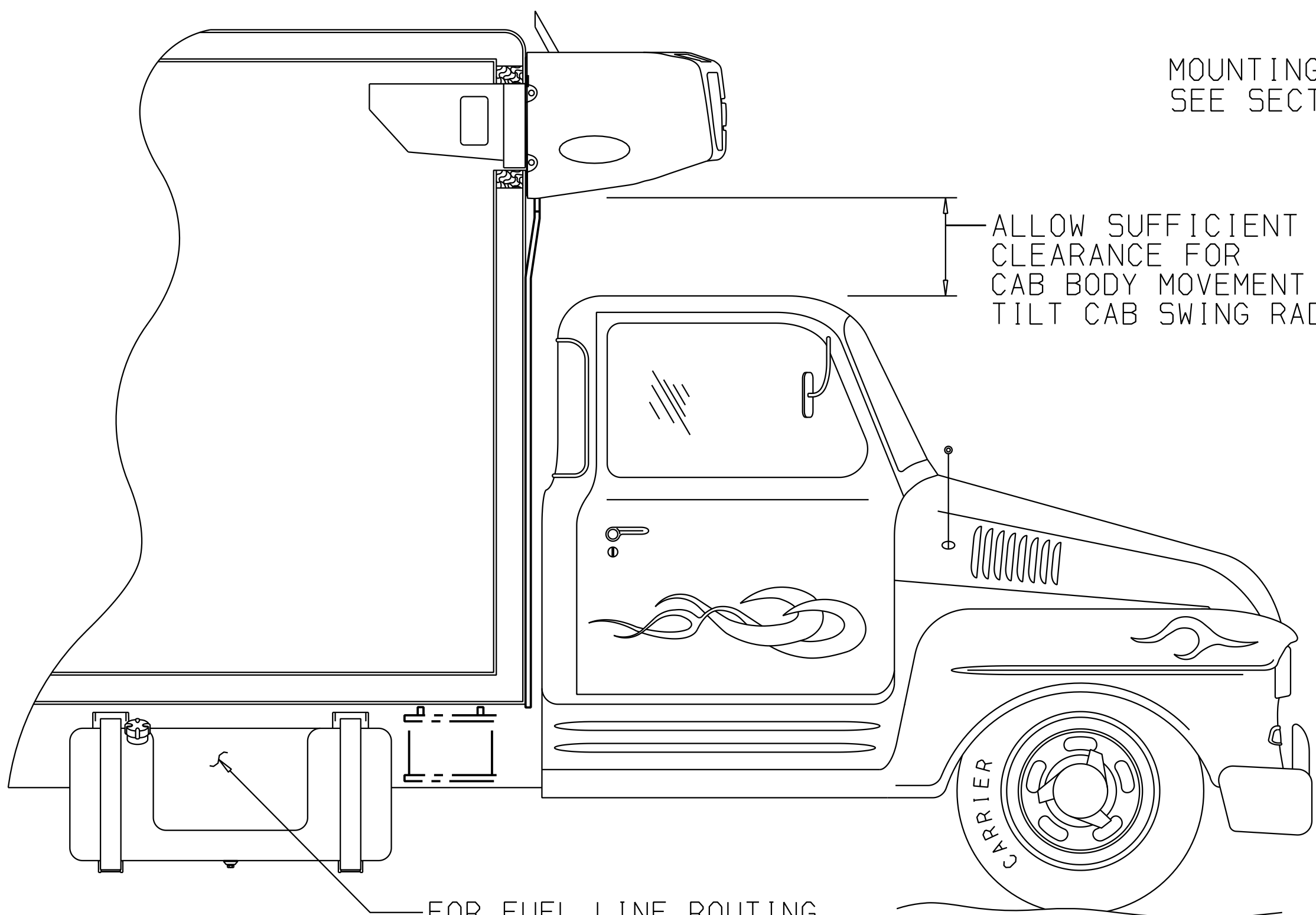


5 SERIES



6, 7 & 8 SERIES

LIFTING HOLE /SLOT SIZES



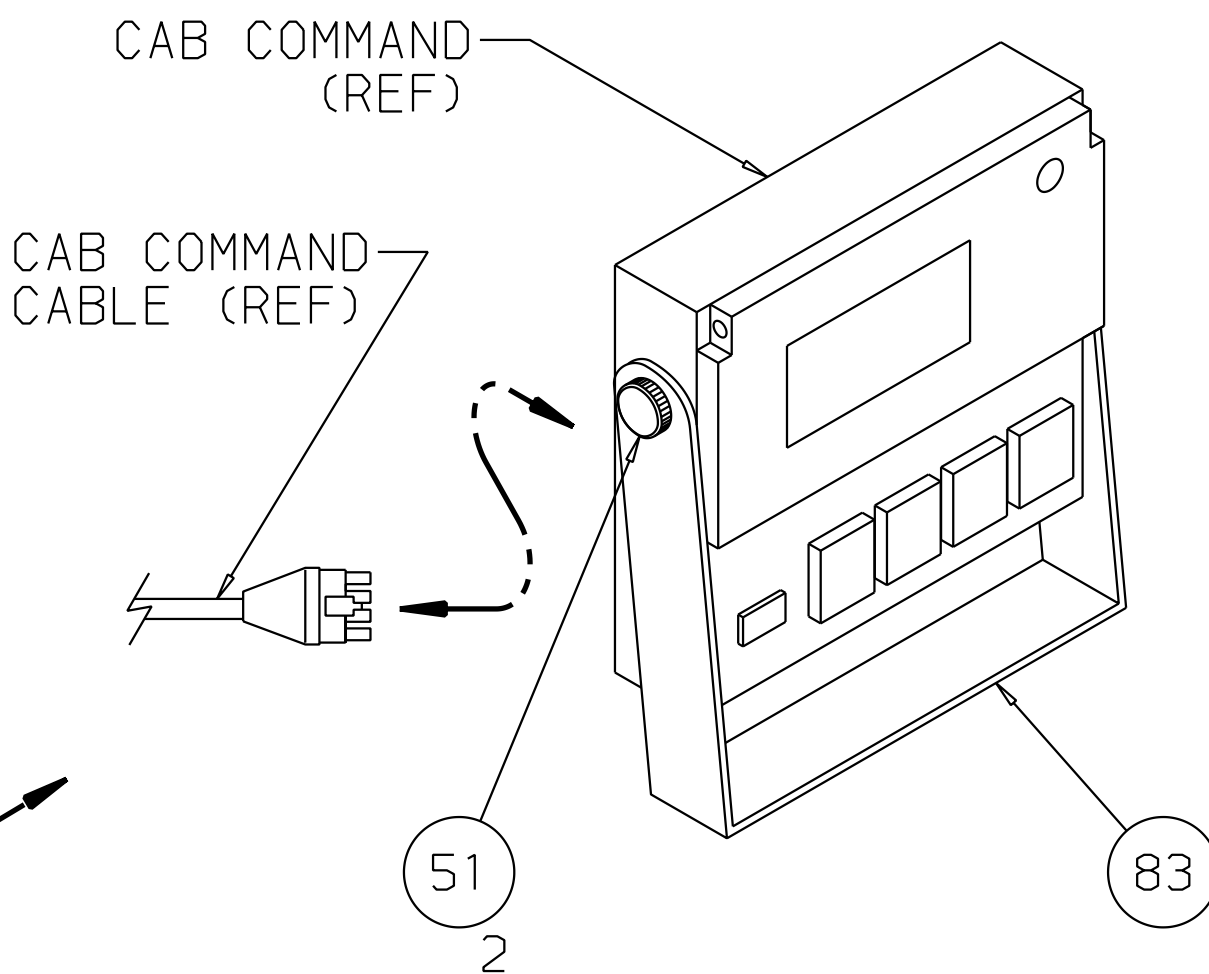
- 26
- 31
- 56
- 66

EVAPORATOR  
DRAIN LINES  
CUT IT.66 AS  
REQUIRED &  
SECURE WITH  
ITEMS 26 & 31

SEE "POWER  
RECEPTACLE  
BOX", SHT.5A

90-PLACE DECAL  
INSIDE DOOR JAM

3. INSTALL THE CAB COMMAND INSIDE THE CAB  
OF THE TRUCK AT THE DESIRED LOCATION.
4. ROUTE THE GREY CAB COMMAND CABLE FROM  
THE CONTROL BOX TO THE CAB COMMAND AND  
MAKE THE CONNECTION AS SHOWN.



NOTES:  
1.0 ALL DIMENSIONS SHOWN ARE INCHES,  
WITH METRIC CONVERSIONS IN [MILLIMETERS].

UNIT INSTALLATION

R	REV'D UNIT DESIGNATION "X SERIES" WAS "X50" PER ECN 71N0275P12					MGC	30 NOV 2012
P	PIC'T UPDATED POWER RECEPTACLE; CALLOUT; SEE POWER RECEPT. BOX, SHT. 5A WAS ... SHT.5 PER ECN71N0255P12					MGC	1 AUG 2012
SYM	REVISION RECORD	ENGRG.	DATE	APPLICATION ENGRG.	DATE	DRAWN BY	DATE

SUPSEDES

TITLE

INSTALLATION INSTRUCTIONS  
SUPRA 5, 6, 7, 8 & 9 SERIES

DRAWING NO.

98-03234

SHT. 4 OF

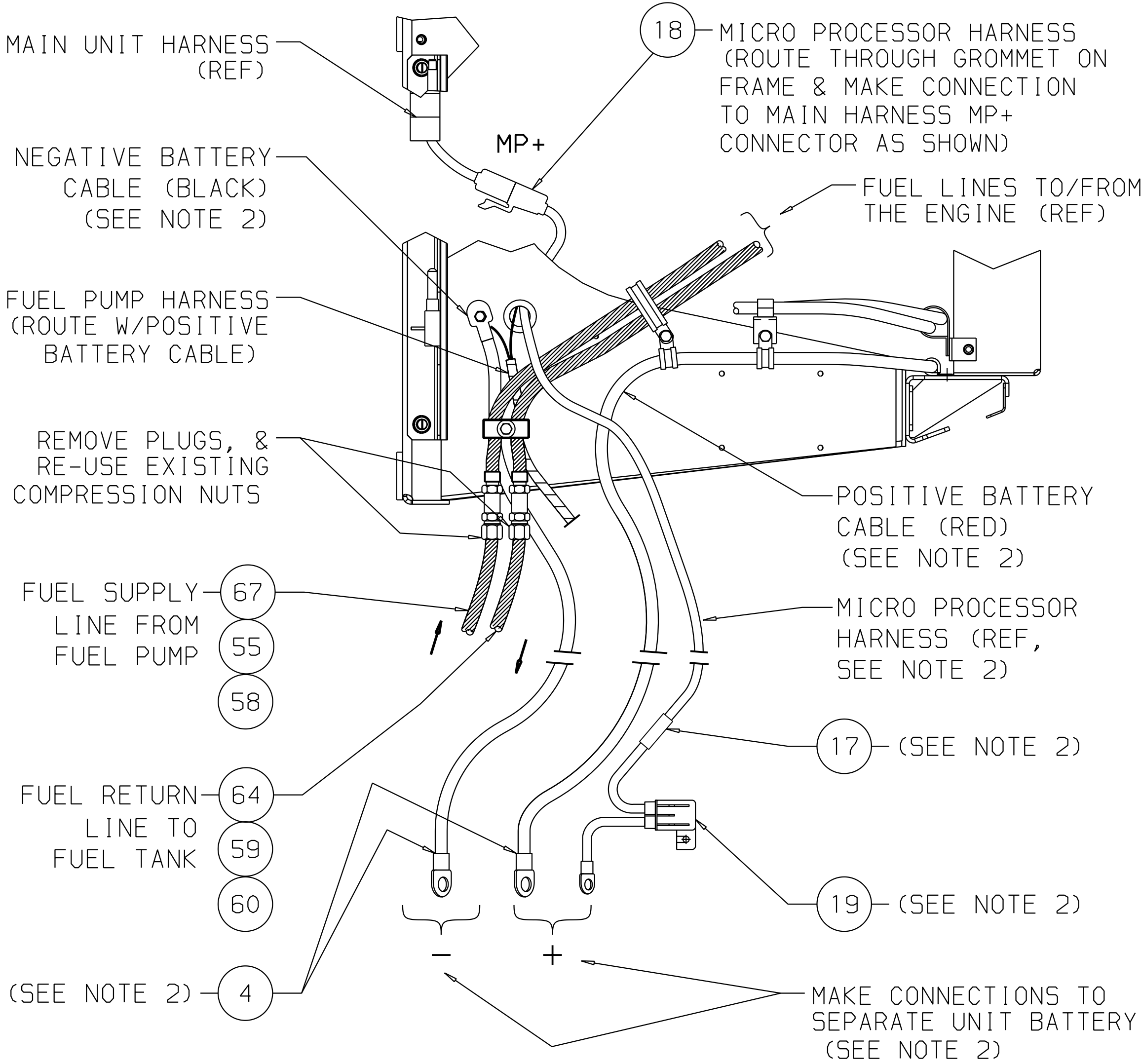
REV

R

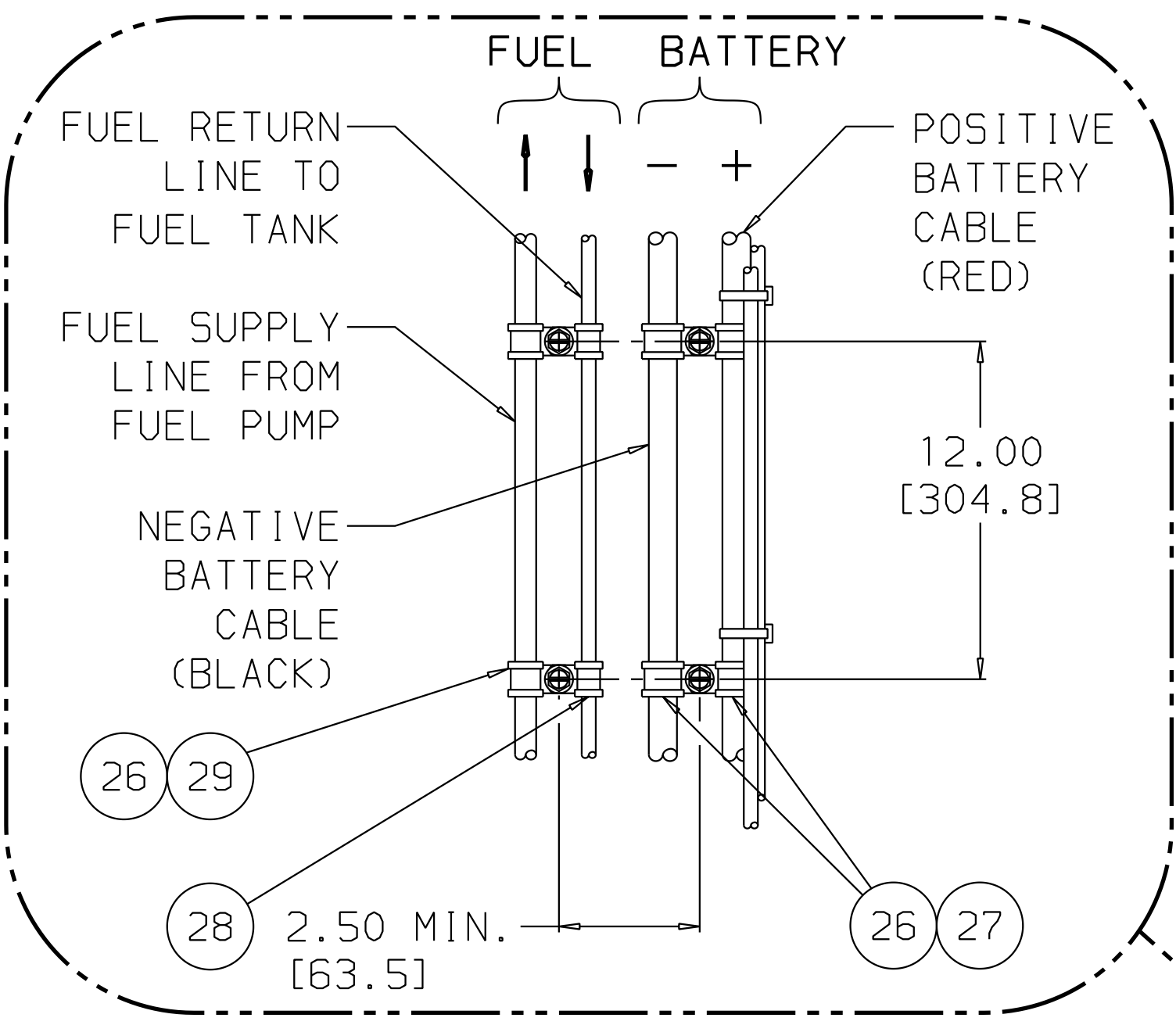
1. FUEL LINE ROUTING:  
A. ROUTE THE FUEL PUMP HARNESS IN ANY OF THE FOLLOWING MANNERS:  
- THRU METAL OR PLASTIC CONDUIT. MAKE SURE TO PROTECT WIRES FROM CHAFING.  
- THRU FREE SPACE CLAMPED IN SUCH A MANNER AS TO PREVENT PHYSICAL DAMAGE.  
- WITH THE POSITIVE BATTERY CABLE SEPARATE FROM ANY FUEL LINES.  
B. SECURE FUEL LINES TO TRUCK BODY USING ITEMS 26, 28 & 29 AS REQUIRED. REFER TO SHEETS 6 & 7 FOR FUEL TANK CONNECTIONS.
2. BATTERY CABLE ROUTING:  
A. POSITION THE POSITIVE (RED) BATTERY CABLE AWAY FROM THE FUEL SUPPLY LINE AS SHOWN, AND ROUTE CABLE TO POSITIVE SIDE OF BATTERY. LEAVE ENOUGH WIRE LENGTH TO ALLOW CLAMP INSTALLATION, CUT CABLE AS REQUIRED AND ATTACH TERMINAL (ITEM 4) AND CONNECT. (COAT TERMINAL WITH GREASE OR SIMILAR MATERIAL TO PREVENT CORROSION).

- BATTERY CABLE ROUTING CONTINUED:  
B. ROUTE MICRO PROCESSOR HARNESS (MP+ / ITEM 18) WITH THE POSITIVE BATTERY CABLE. POSITION FUSED HARNESS (ITEM 19) IN A PROTECTED BUT ACCESSIBLE LOCATION. CUT MP+ HARNESS AS REQUIRED. STRIP THE WIRE 1/4" AND INSTALL TO THE BUTT SPLICE OF ITEM 19 USING HEAT SHRINK (IT.17). MAKE THE BATTERY CONNECTION TO THE POSITIVE TERMINAL (COAT TERMINAL WITH GREASE OR SIMILAR MATERIAL TO PREVENT CORROSION).
- C. ROUTE BLACK BATTERY CABLE TO THE NEGATIVE TERMINAL ON BATTERY. CUT AS REQUIRED, ATTACH TERMINAL (ITEM 4) TO CABLE AND CONNECT. SECURE CABLES AS SHOWN USING ITEMS 26 & 27. USE TY-WRAPS (ITEM 62) TO SECURE FUEL PUMP & MICRO PROCESSER HARNESSES.
3. **CAUTION:** DO NOT RUN JUMPER FROM UNIT POSITIVE STARTER TERMINAL TO MICRO POSITIVE TERMINAL, AS THIS IS CRITICAL TO PROPER UNIT OPERATION.

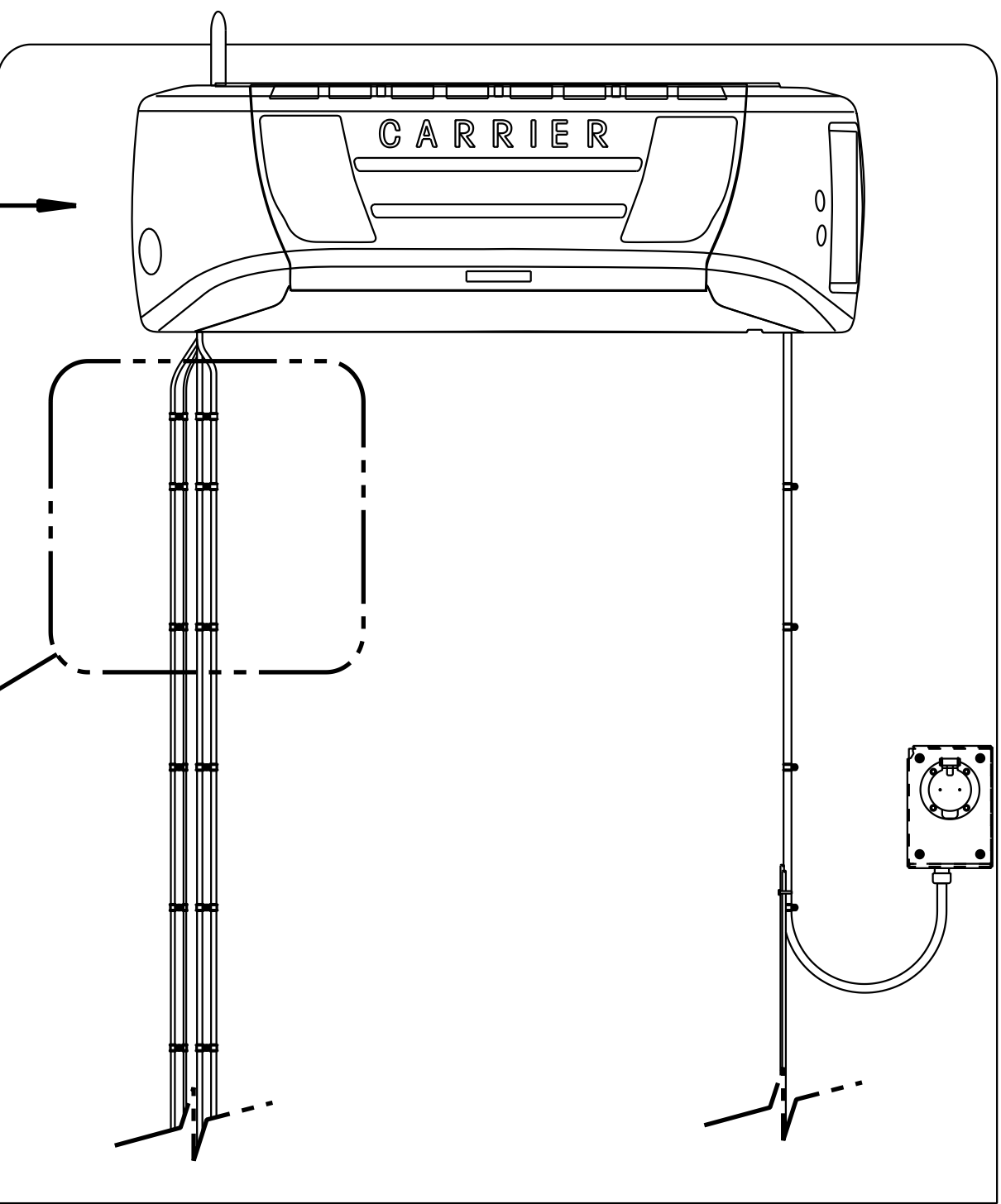
CONTINUED ON NEXT SHEET



DETAIL C  
950 SHOWN



SEE DETAIL C



TRUCK BODY  
(SHOWN WITHOUT CAB)

FUEL LINE ROUTING/ELECTRICAL CONNECTIONS

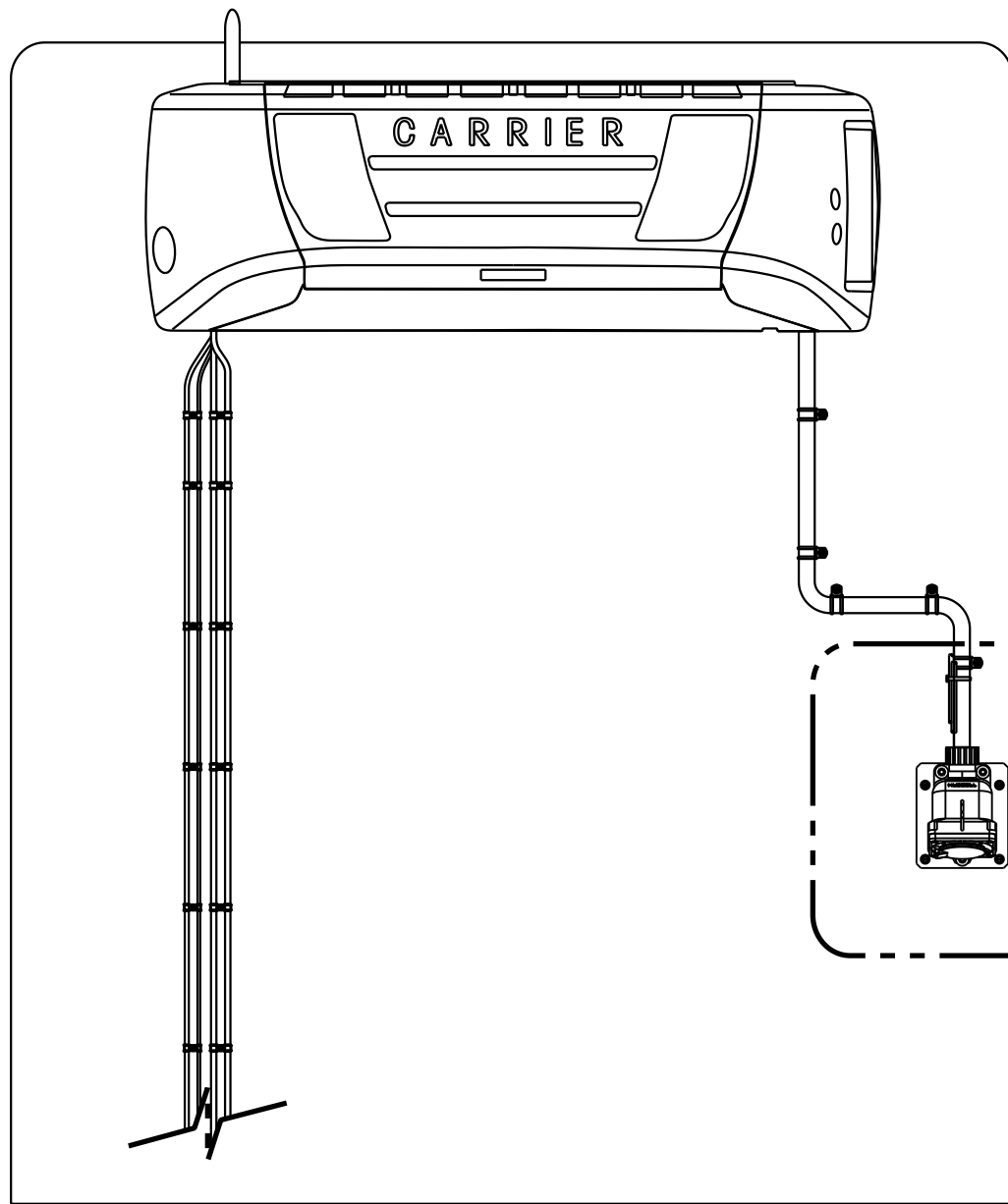
NOTES:  
1.0 ALL DIMENSIONS SHOWN ARE INCHES,  
WITH METRIC CONVERSIONS IN [MILLIMETERS].

R	REV'D UNIT DESIGNATION "X SERIES" WAS "X50" PER ECN 71N0275P12					MGC	30 NOV 2012	SUPERSEDES	TITLE	INSTALLATION INSTRUCTIONS SUPRA 5, 6, 7, 8 & 9 SERIES	DRAWING NO. 98-03234 SHT. 5 OF	REV R
N	MOVED STEP 4 & POWER RECEPTACLE BOX MOUNTING VIEWS TO SHT. 5A (NEW SHT) PER ECN71N0233P11					MGC	27 FEB 2012					
SYM	REVISION RECORD	ENGRG.	DATE	APPLICATION ENGRG.	DATE	DRAWN BY	DATE					

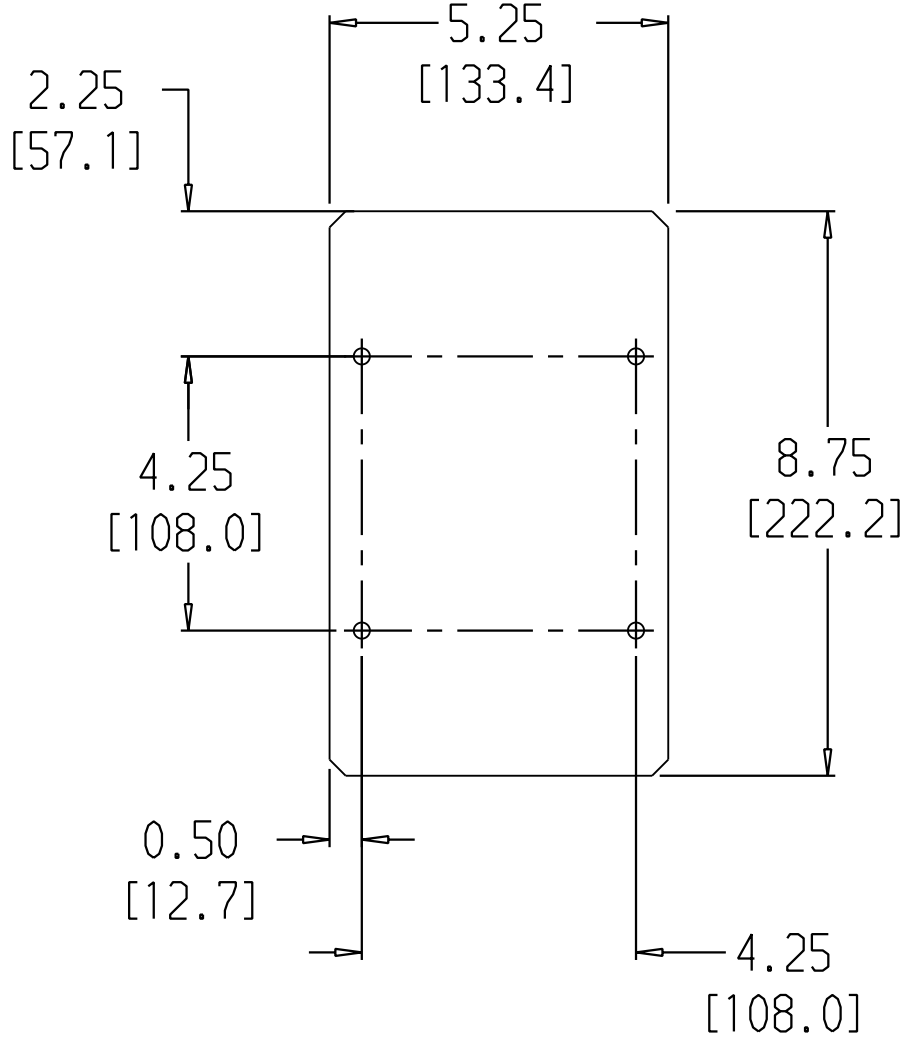
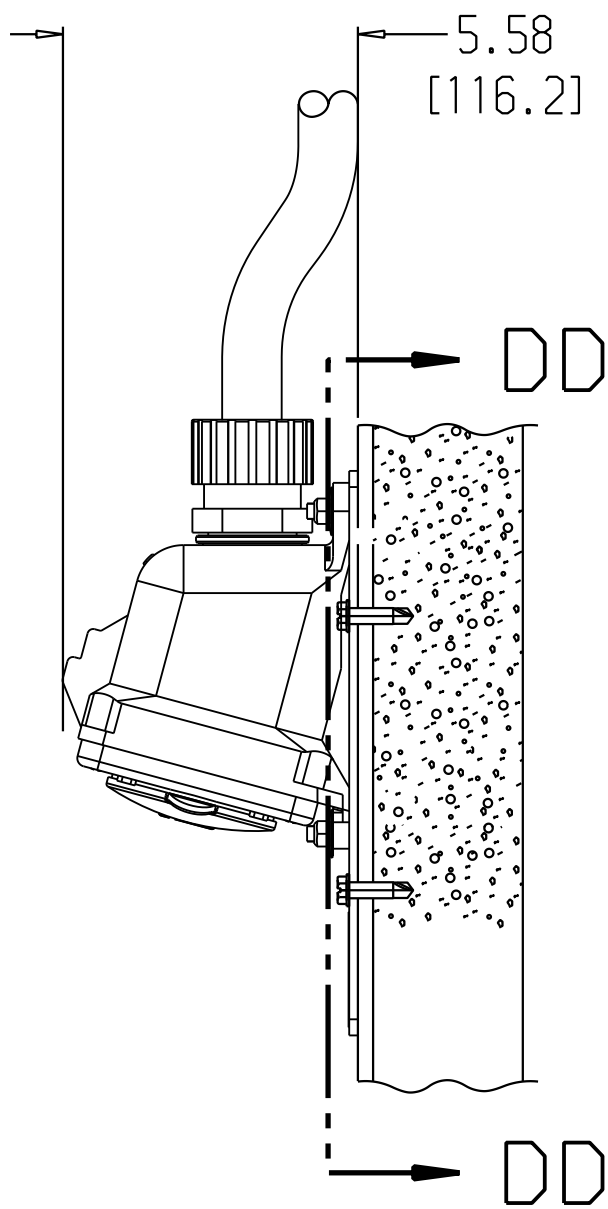
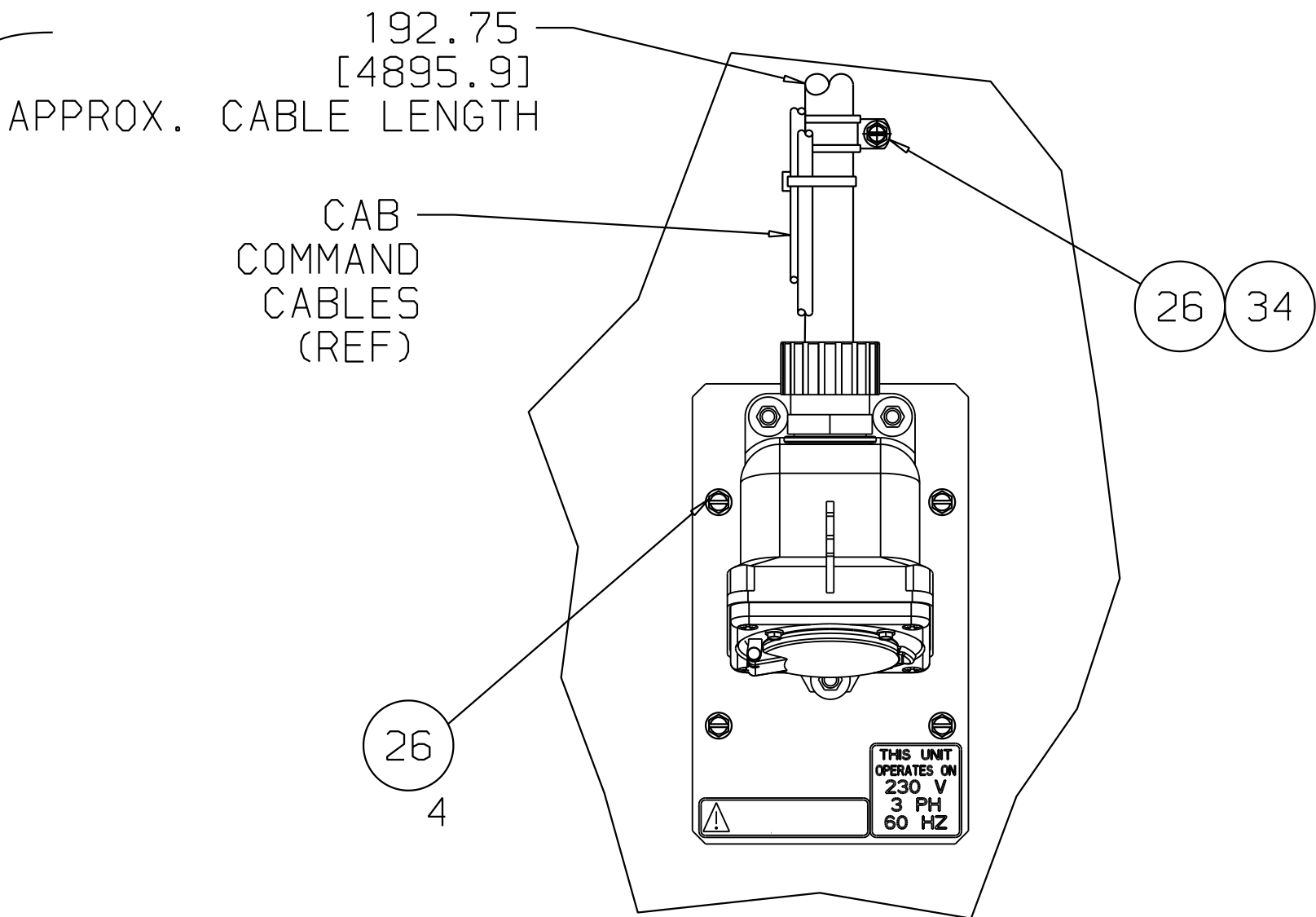


CONTINUED FROM PREVIOUS SHEET

4. MOUNT THE POWER RECEPTACLE BOX AS SHOWN USING ITEMS 26 & 34(FOR SUPRA 5, 6, 7 & 8 SERIES) OR  
ITEMS 26 & 33(FOR SUPRA 9 SERIES). USE TY-WRAPS (ITEM 62) TO SECURE THE CAB COMMAND CABLES.

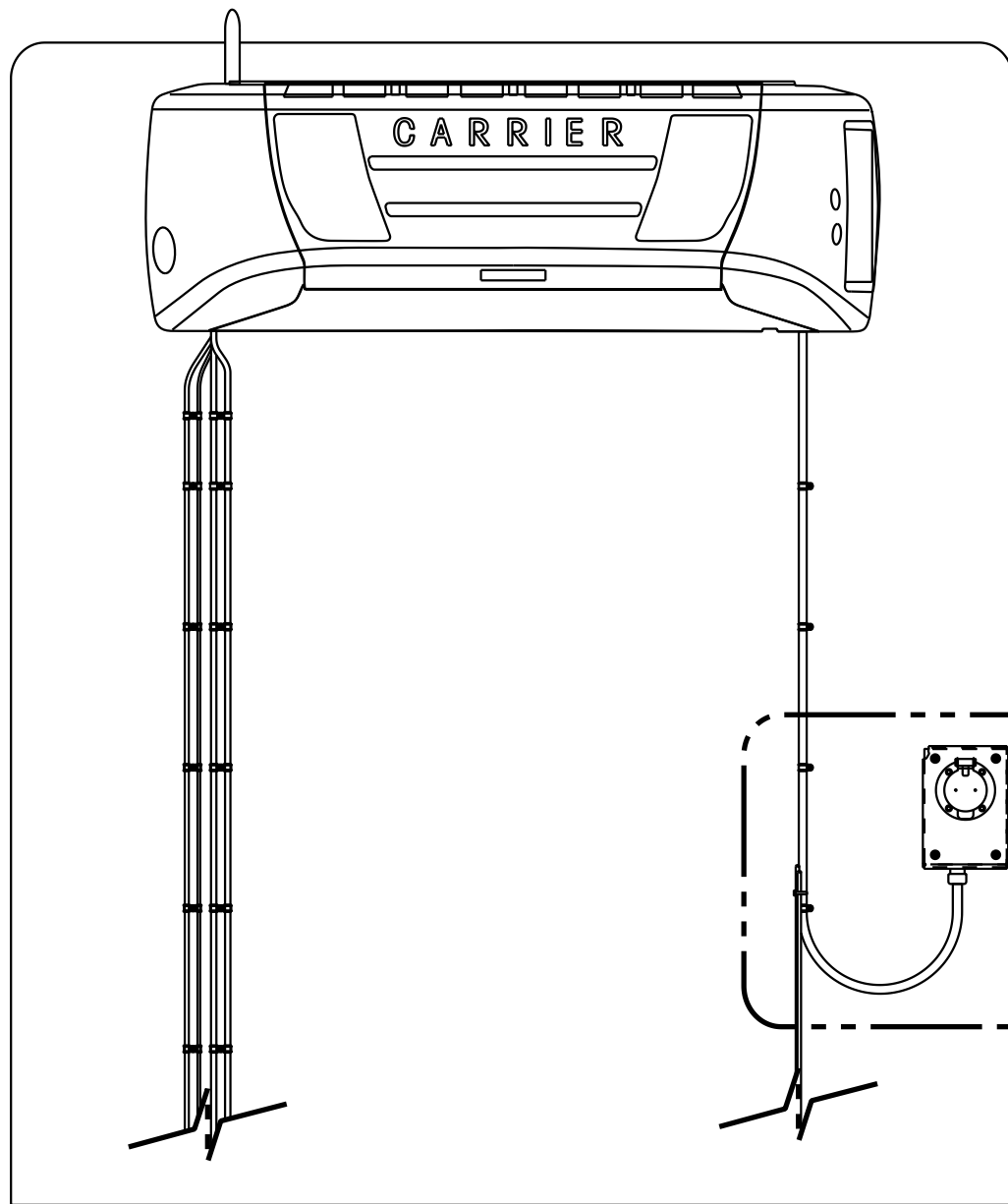


TRUCK BODY  
(SHOWN WITHOUT CAB)

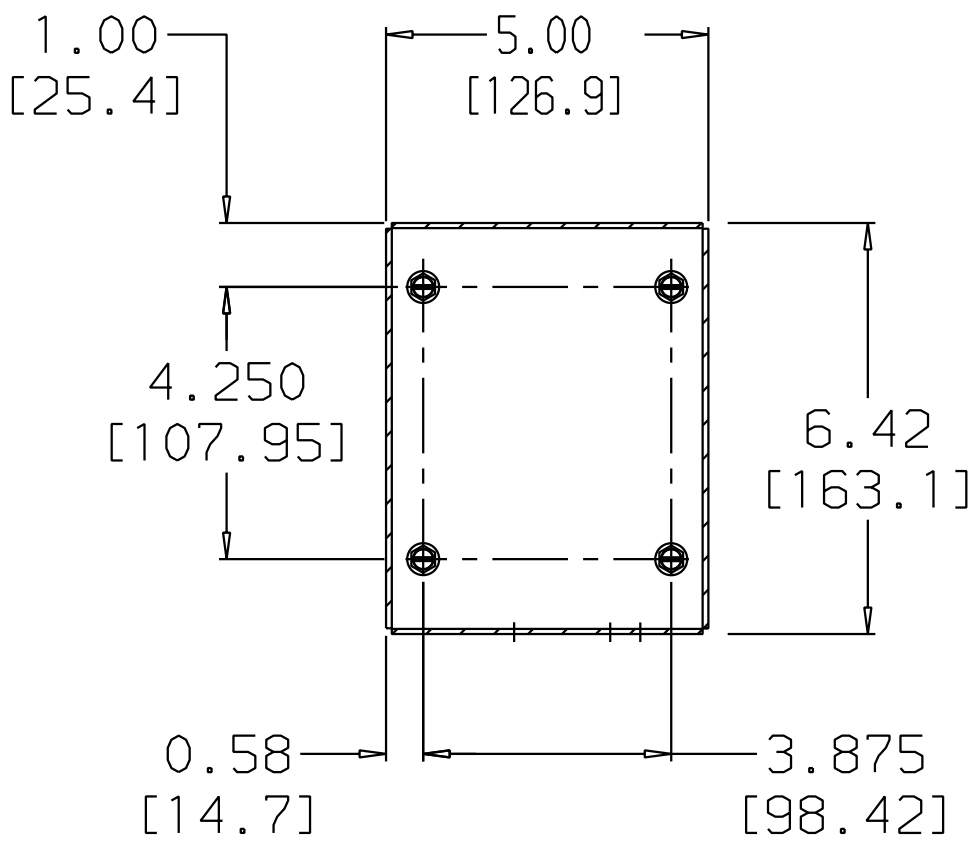
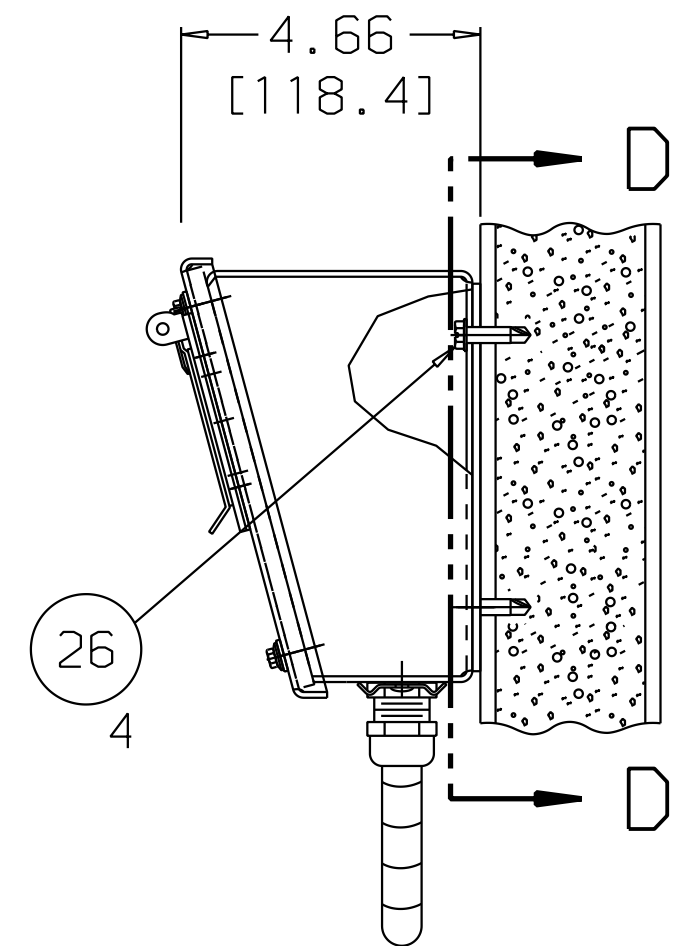
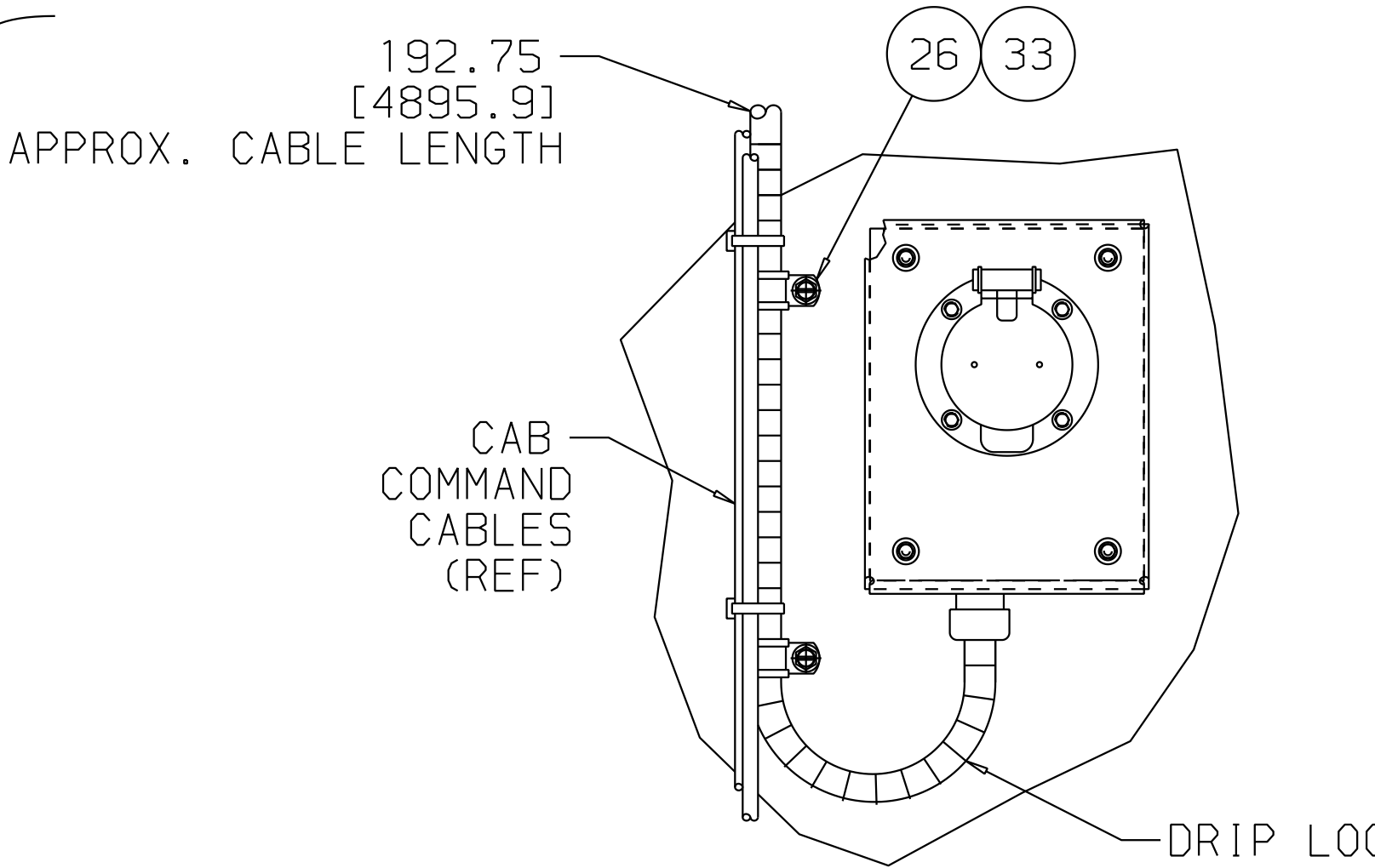


SECTION DD-DD

5, 6, 7 & 8 SERIES POWER RECEPTACLE BOX  
(230V VERSION SHOWN)



TRUCK BODY  
(SHOWN WITHOUT CAB)



SECTION D-D

9 SERIES POWER RECEPTACLE BOX  
(230V VERSION SHOWN)

POWER RECEPTACLE BOX MOUNTING

NOTES:  
1.0 ALL DIMENSIONS SHOWN ARE INCHES,  
WITH METRIC CONVERSIONS IN [MILLIMETERS].

R	REV'D UNIT DESIGNATION "X SERIES" WAS "X50" PER ECN 71N0275P12					MGC	30 NOV 2012	SUPERSEDES	TITLE	INSTALLATION INSTRUCTIONS SUPRA 5, 6, 7, 8 & 9 SERIES	DRAWING NO. 98-03234 SHT. 5A OF	REV R
P	UPDATED 5 THRU 850 PWR RECEP BOX; IN SECTION DD-DD, 2.25 WAS 1.25 & 8.75 WAS 6.00 PER ECN 71N0255P12					MGC	1 AUG 2012					
SYM	REVISION RECORD	ENGRG.	DATE	APPLICATION ENGRG.	DATE	DRAWN BY	DATE					

1. FUEL PICK-UP TUBE INSTALLATION

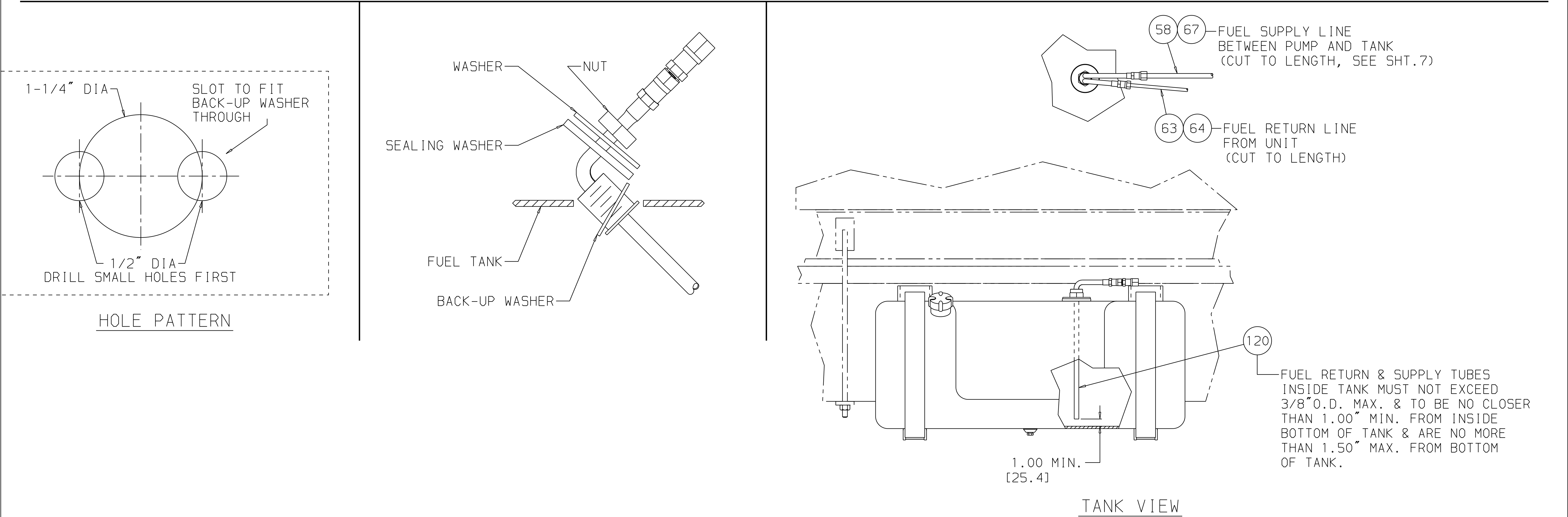
- A. DETERMINE THE DESIRED LOCATION FOR THE PICK-UP TUBES ON THE FUEL TANK. MAKE CERTAIN THAT THE LOCATION ADHERES TO THE FOLLOWING:
- LOCATION WILL ALLOW FOR THE FUEL LINE CONNECTIONS.
  - LOCATION DOES NOT INTERFERE WITH ANY OTHER CONNECTION(S), APPARATUS, INTERNAL BAFFLE OR OBSTRUCTION.
- B. REFER TO THE HOLE PATTERN VIEW AND LAYOUT THE HOLES IN THE LOCATION DETERMINED FROM STEP A. THEN CENTER PUNCH THE THREE HOLE CENTERS.

**CAUTION:** TAKE PRECAUTIONS TO MINIMIZE OR ELIMINATE METAL CHIPS AND SHAVINGS FROM FALLING INTO THE FUEL TANK, SUCH AS USE OF A MAGNET AND/OR GREASE.

- C. USING A 1/2" DRILL BIT, DRILL THE TWO OUTSIDE 1/2" HOLES FIRST.
- D. USING A 1-1/4" HOLE SAW, DRILL THE REMAINING HOLE IN THE CENTER.

**CAUTION:** CLEAN ALL METAL PARTICLES, GREASE, OIL, AND RESIDUE FROM THE AREA TO PROVIDE A CLEAN SEALING SURFACE. DO NOT APPLY ANY ADHESIVES OR SEALANTS.

- E. MEASURE THE DEPTH OF THE FUEL TANK. MODIFY THE LENGTH OF THE TUBES SO THEY ARE APPROXIMATELY 1.00" [25.4 mm] ABOVE THE BOTTOM OF THE TANK.
- F. SLIDE ALL MOUNTING HARDWARE OVER THE CURVED PORTION OF THE TUBES AS FAR FORWARD AS POSSIBLE. INSERT THE TUBES INTO THE TANK OPENING, AND TILT THE LARGE BACK-UP WASHER SO IT FALLS THROUGH THE SLOT FORMED BY THE TWO 1/2" HOLES.
- G. WITH THE BACK-UP WASHER FULLY IN THE TANK, LIFT THE TUBE ASSEMBLY UP UNTIL IT STOPS. SLIDE ALL REMAINING HARDWARE DOWN TOWARDS THE THREADED BUSHING.
- H. SEAT THE SEALING GASKET FIRMLY AGAINST THE TOP OF THE TANK AND START THE NUT. POINT THE TUBES IN THE PROPER DIRECTION, AND TIGHTEN THE NUT TO 18-20 FT-LBS [24-27 Nm].

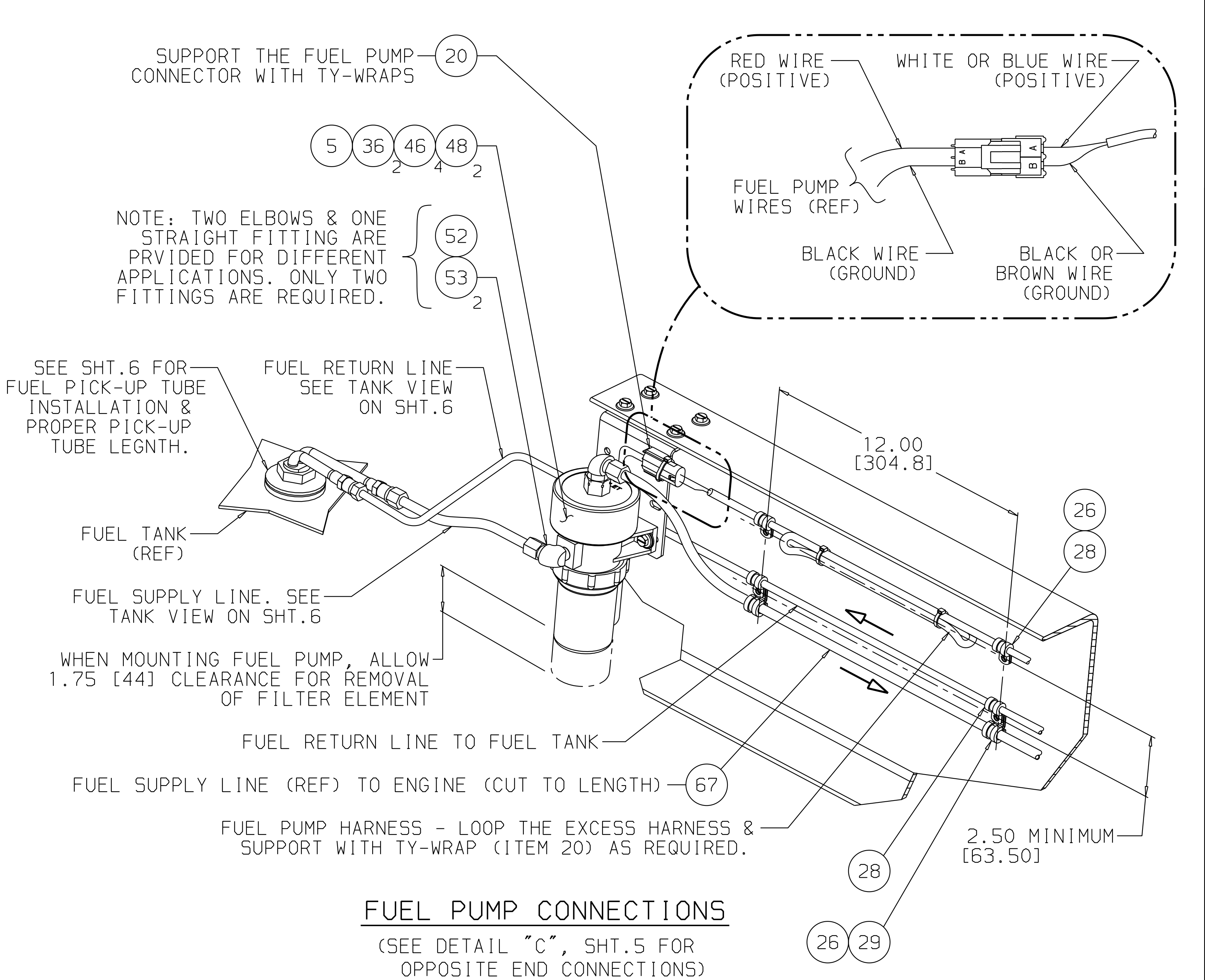
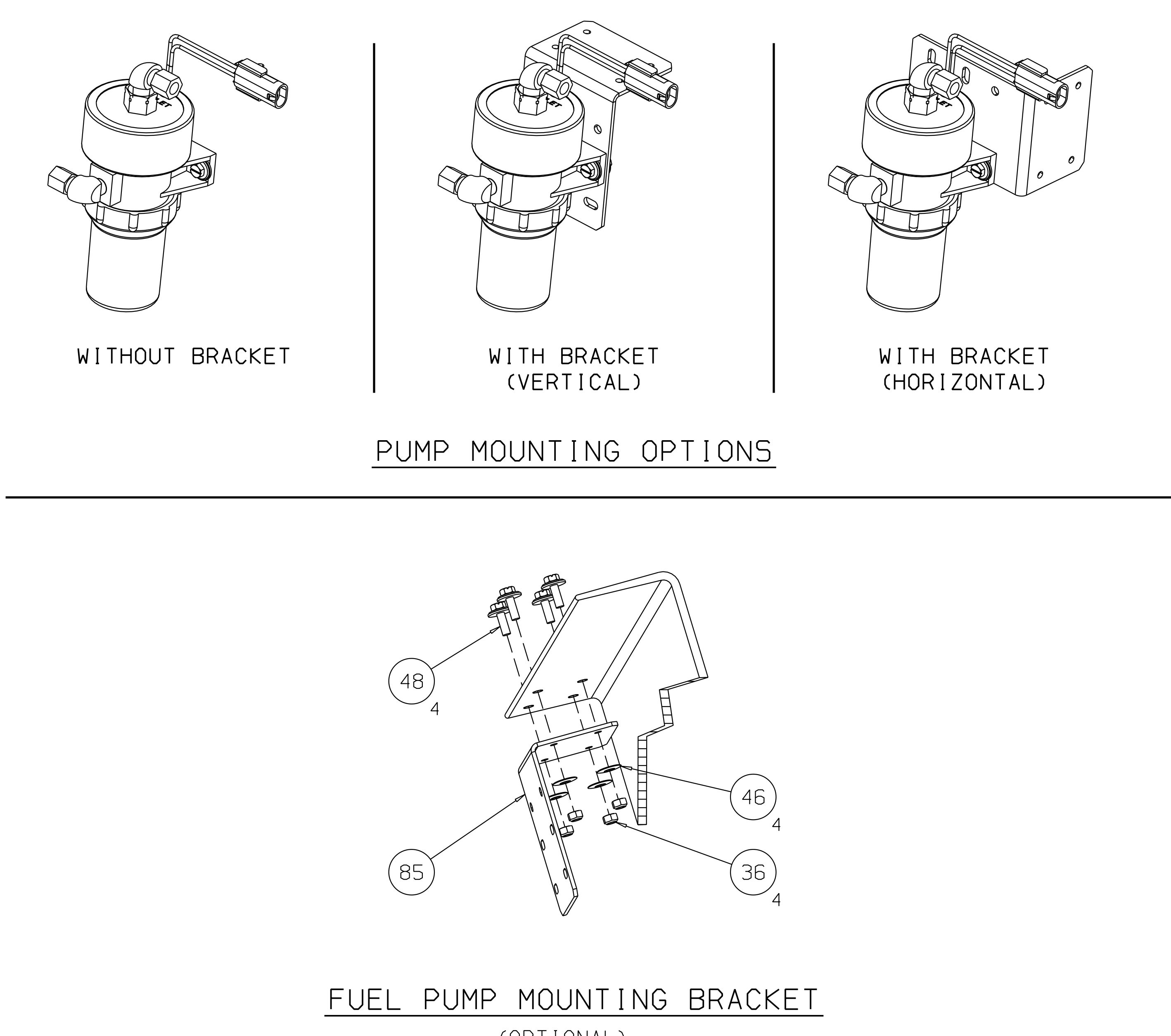


FUEL PICK-UP TUBE INSTALLATION

R	REV'D UNIT DESIGNATION "X SERIES" WAS "X50" PER ECN 71N0275P12					MGC	30 NOV 2012	SUPERSEDES	TITLE	INSTALLATION INSTRUCTIONS SUPRA 5, 6, 7, 8 & 9 SERIES	DRAWING NO. 98-03234 SHT. 6 OF	REV R
K	MOVED SHT. 6 VIEWS TO SHT. 8 (NEW SHT); NEW VIEWS ON THIS SHT. WERE SHOWN ON SHT. 5A PER 1PCA71N2006P09, SHT. 01					MGC	12 JAN 2009					
SYM	REVISION RECORD	ENGRG.	DATE	APPLICATION ENGRG.	DATE	DRAWN BY	DATE					

1. DETERMINE THE DESIRED LOCATION FOR THE FUEL PUMP BY USING THE FOLLOWING CRITERIA.
  - FUEL PUMP TO BE MOUNTED VERTICALLY AND AS CLOSE AS POSSIBLE TO THE FUEL TANK
  - FUEL PUMP NOT TO BE INSTALLED MORE THAN 30 INCHES [762 MM] ABOVE FUEL LINES IN THE FUEL TANK.
  - ALLOW CLEARANCE FOR REMOVAL OF FILTER ELEMENT AS NOTED IN DIAGRAM BELOW.
2. AN OPTIONAL FUEL PUMP MOUNTING BRACKET IS INCLUDED. THE BRACKET CAN BE MOUNTED VERTICALLY OR HORIZONTALLY AS NEEDED USING LOOSE HARDWARE. MAKE CERTAIN TO MOUNT THE FUEL PUMP VERTICALLY.

3. MOUNT THE FUEL PUMP AND MAKE THE FUEL PUMP HARNESS CONNECTION. VERIFY THE WIRE ORIENTATIONS AND CORRECT IF NECESSARY.
4. POSITION THE FUEL PUMP HARNESS ABOVE THE FUEL LINES AND SECURE THE HARNESS WITH ITEMS 26 & 28.
5. ROUTE AND SECURE THE FUEL LINES WITH ITEMS 26, 28 & 29.



FUEL LINE ROUTING/ELECTRICAL CONNECTIONS

R	REV'D UNIT DESIGNATION "X SERIES" WAS "X50" PER ECN 71N0275P12					MGC	30 NOV 2012	SUPERSEDES	TITLE	INSTALLATION INSTRUCTIONS SUPRA 5, 6, 7, 8 & 9 SERIES	DRAWING NO. 98-03234 SHT. 7 OF	REV R
N	FOR "FUEL LINE CONNECTIONS", (SEE DETAIL "C", SHT.5 ...) WAS (SEE DETAIL "C", SHT.6 ...) PER ECN 71N0233P11					MGC	23 FEB 2012					
SYM	REVISION RECORD	ENGRG.	DATE	APPLICATION ENGRG.	DATE	DRAWN BY	DATE					

