



THIS DOCUMENT AND THE INFORMATION CONTAINED THEREIN IS PROPRIETARY TO CARRIER CORPORATION AND SHALL NOT BE USED OR DISCLOSED TO OTHERS, IN WHOLE OR IN PART, WITHOUT THE WRITTEN AUTHORIZATION OF CARRIER CORPORATION.

SUBMISSION OF THESE DRAWINGS OR DOCUMENTS  
DOES NOT CONSTITUTE PART PERFORMANCE OR  
ACCEPTANCE OF CONTRACT

DESCRIPTION	INSTALLATION DRAWING NO.	KIT NO.
LED LIGHT BAR INSTALLATION INSTRUCTIONS	98-03246	76-02000-00

KIT NO.	INSTALLATION DRAWING NO.	MODEL DESCRIPTION
76-02066-01	98-02591	VECTOR 8100 (DOMESTIC) STANDBY ONLY

- 1.0 COMPLETE INSTALLATION INCLUDES AND IS NOT LIMITED TO:
  - 1.1 UNIT INSTALLATION
    - 1.1.1 MOUNTING HOLE PLUG INSTALLATION
  - 1.2 BATTERY INSTALLATION, INCLUDING DRAIN HOSE
  - 1.3 COMPLETION OF PRE-DELIVERY INSPECTION (PDI) PER MODEL
    - 1.3.1 UNIT PREP AND INITIAL ADJUSTMENTS
    - 1.3.2 CHECKLIST
    - 1.3.3 UNIT RUN IN PER PDI CHECKLIST
    - 1.3.4 WARRANTY REGISTRATION CARD SUBMITTAL
  - 1.4 DEFROST LINE ROUTING AND CLAMPING
- 2.0 THE TRAILER OR BOXCAR STRUCTURE MUST BE EVALUATED BY THE TRAILER OR BOXCAR MANUFACTURER TO DETERMINE IT'S ABILITY TO WITHSTAND THE LOADS IMPOSED BY THE UNIT OVER IT'S SERVICE LIFE. CARRIER TRANSICOLD DOES NOT CONVEY ANY ENDORSEMENT OR WARRANTY FOR THE TRAILER'S OR BOXCAR'S STRUCTURAL INTEGRITY.  
WEIGHTS:  
NEK-530 REEFER UNIT (WET, LESS BATTERY): 1095 LBS  
BATTERY (TYPICAL): 80 LBS MAXIMUM
- 3.0 UNIT MOUNTING SURFACES OF THE TRAILER OR BOXCAR THAT CONTACT THE UNIT MOUNTING PADS MUST BE UNIT-PLANAR TO WITHIN 0.13 [3] TO PREVENT DISTORTION OF THE UNIT AND/OR TRAILER.
  - 3.1 MOUNTING STUDS MUST NOT PROTRUDE MORE THAN 3.0 INCHES FROM THE TRAILER OR BOXCAR SURFACE FOR PROPER INSTALLATION OF THE MOUNTING HOLE PLUGS.
- 4.0 TRAILER OR BOXCAR SURFACES THAT CONTACT THE UNIT MOUNTING GASKET SHOULD NOT PROTRUDE MORE THAN 0.19 [5] ABOVE THE PLANE DEFINED BY THE MOUNTING PAD SURFACES TO ENSURE PROPER AIR SEAL.
- 5.0 ALL DIMENSIONS SHOWN ARE IN INCHES, WITH THE METRIC CONVERSIONS IN [MILLIMETERS].
- 6.0 PRE-DELIVERY INSPECTION AND WARRANTY REGISTRATION DOCUMENTS ARE SHIPPED WITH UNIT AND ARE LOCATED IN THE SIDE DOOR POCKET WITH UNIT MANUAL AND SCHEMATIC.

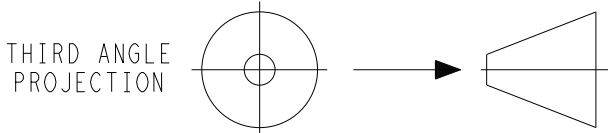
CONTENTS	SHEET
GENERAL INFORMATION	1
SWING RADIUS	2
UNIT DIMENSIONAL DATA	2
EVAP. BACK PANEL: TRAILER OR RAIL	3
TRAILER OR BOXCAR PREPARATION	4
UNIT INSTALLATION	5
UNIT LIFTING LOCATION	5
BATTERY INSTALLATION	6, 7
CHUTE DIMENSIONAL INFORMATION	8
STAND BY POWER PLUG INSTALLATION	9
BOTTOM PANEL INSTALLATION	10



E	UPDATED SHEET INDEX. SEE SHEET 5.	02 MAY 2025	ZMG	NB		ECN1195346
D	UPDATED SHEET INDEX. SEE SHEETS 3, 4 & 5. ADDED NOTES 1.1 & 3.1.	27 OCT 2022	ZMG	HW		ECN1161283
C	UPDATED SHEET INDEX, SEE SHEETS 2 & 5.	14 AUG 2019	LT-SK	RC		72N0242P19
B	UPDATED SHEET INDEX. ADDED NOTE 6.0, SHEET 10 AND INSTALLATION KIT P/N TO CHART. SEE SHEETS 3 AND 5.	04 APR 2017	ZMG			72N0217P17
A	UPDATED SHEET INDEX, SEE SHEET 7	22 JUN 2015	LT-SJ			72N0051P14
-	INITIAL RELEASE.	14 MAR 2013	LT-KM			72N0560P12
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.

SHEET INDEX	REV	E	C	D	D	E	-	A	-	-	B
	SHEET	1	2	3	4	5	6	7	8	9	10

SEE SEPARATE PARTS LIST



IMPERIAL INCH FORMAT:  
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES WITH  
METRIC CONVERSIONS IN [MILLIMETERS]

TITLE INSTALLATION INSTRUCTIONS  
TRAILER (VECTOR 8100)

DRAWING NO.	98-02591	REVISION
	SHEET 1 OF 10	E

SUPERSEDES:

PART CLASSIFICATION: US EAR95

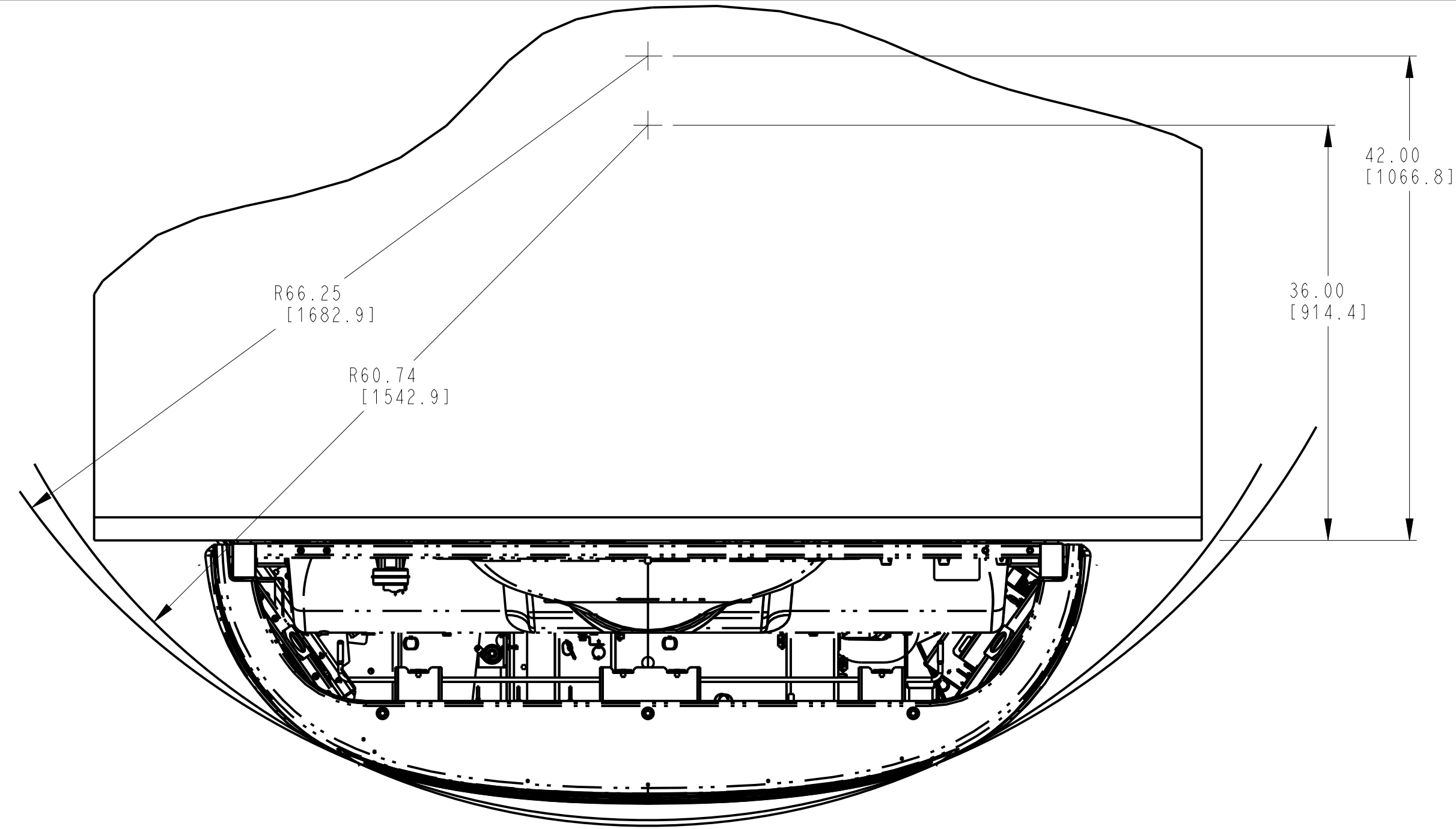
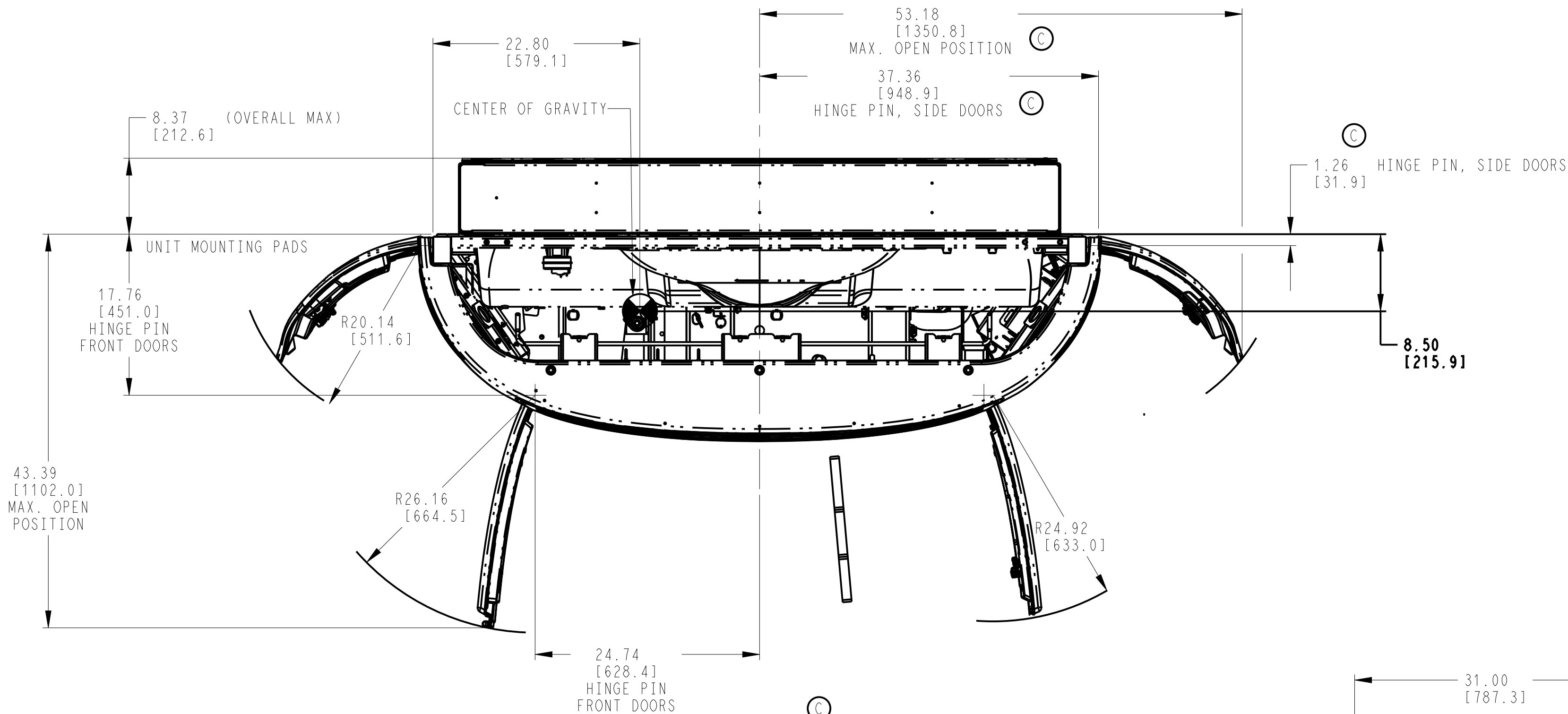
DRAWING CLASSIFICATION: IIS FAR99



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

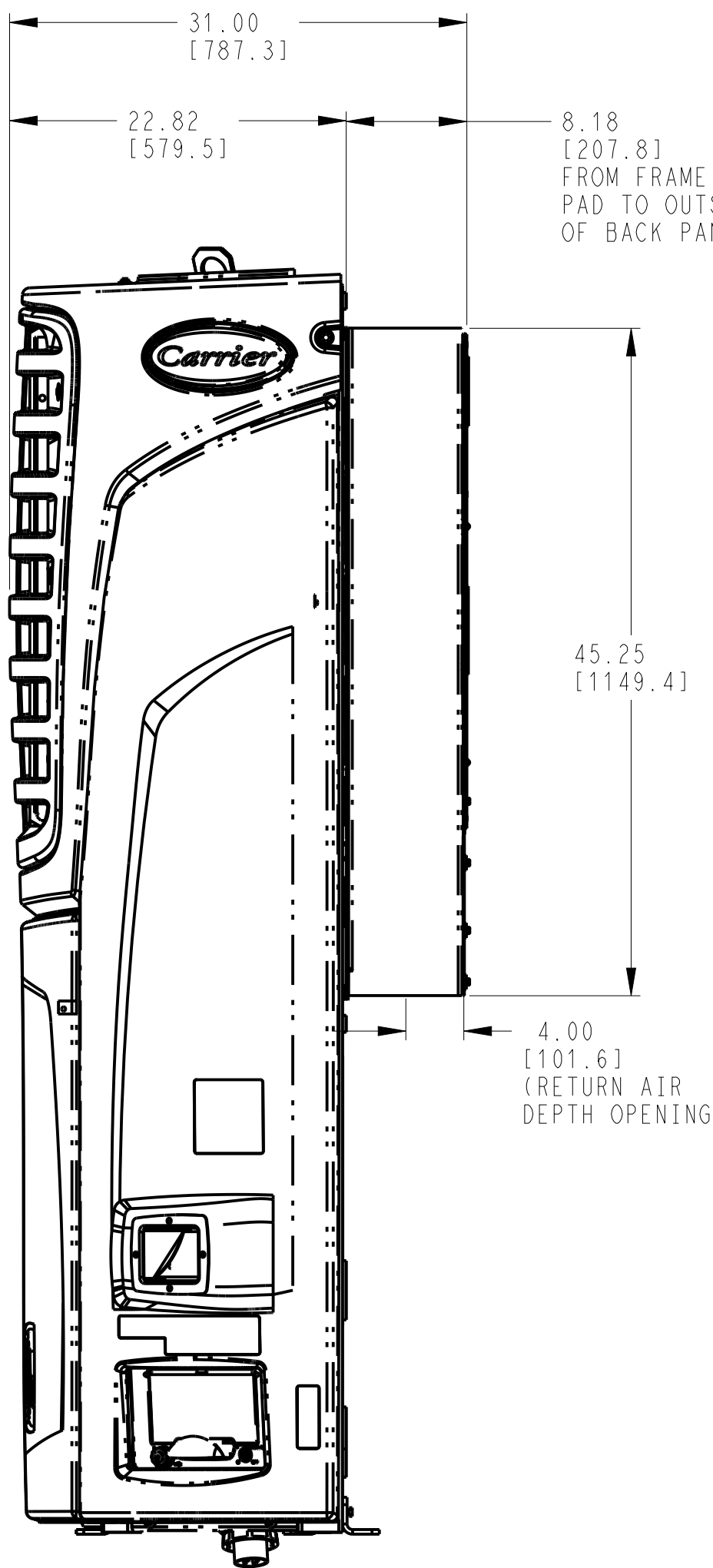
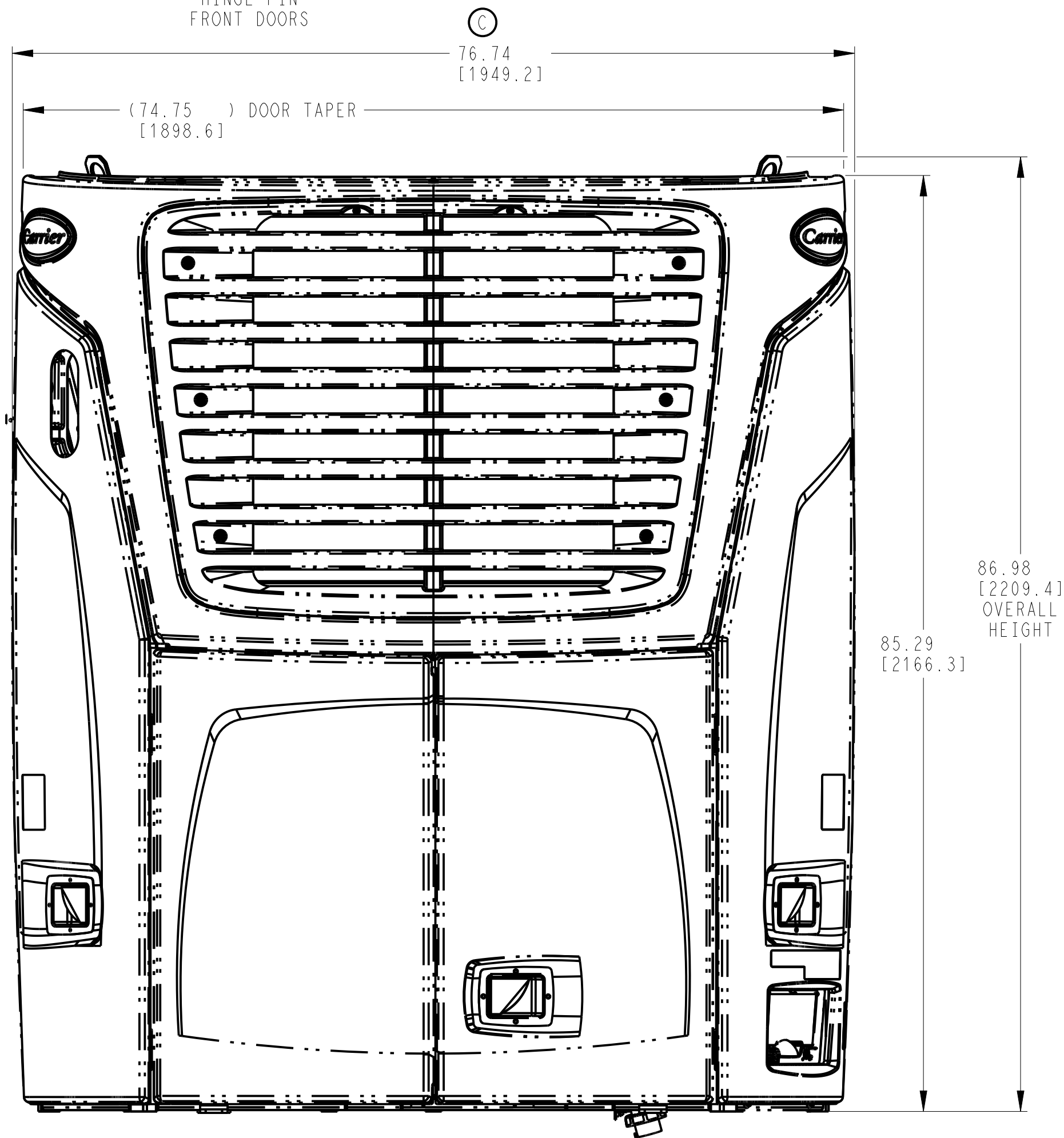
THIS DOCUMENT AND THE INFORMATION CONTAINED THEREIN IS  
PROPRIETARY TO CARRIER CORPORATION AND SHALL NOT BE USED  
OR DISCLOSED TO OTHERS, IN WHOLE OR IN PART, WITHOUT THE  
WRITTEN AUTHORIZATION OF CARRIER CORPORATION.

SUBMISSION OF THESE DRAWINGS OR DOCUMENTS  
DOES NOT CONSTITUTE PART PERFORMANCE OR  
ACCEPTANCE OF CONTRACT



## SWING RADIUS

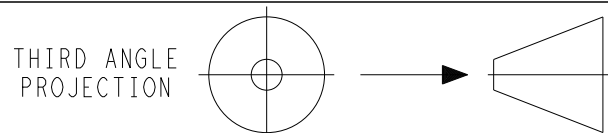
ALL UNIT VERSIONS



## UNIT DIMENSION INFORMATION

ALL UNIT VERSIONS

C	UPDATED DIM'S 53.00 WAS 53.18, 37.18 WAS 37.36, 1.07 WAS 1.26 & 76.38 WAS 76.74.	14 AUG 2019	LT-SK	RC		72N0242P19
-	INITIAL RELEASE.	14 MAR 2013	LT-KM			72N0560P12
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



IMPERIAL INCH FORMAT:  
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES WITH  
METRIC CONVERSIONS IN [MILLIMETERS]

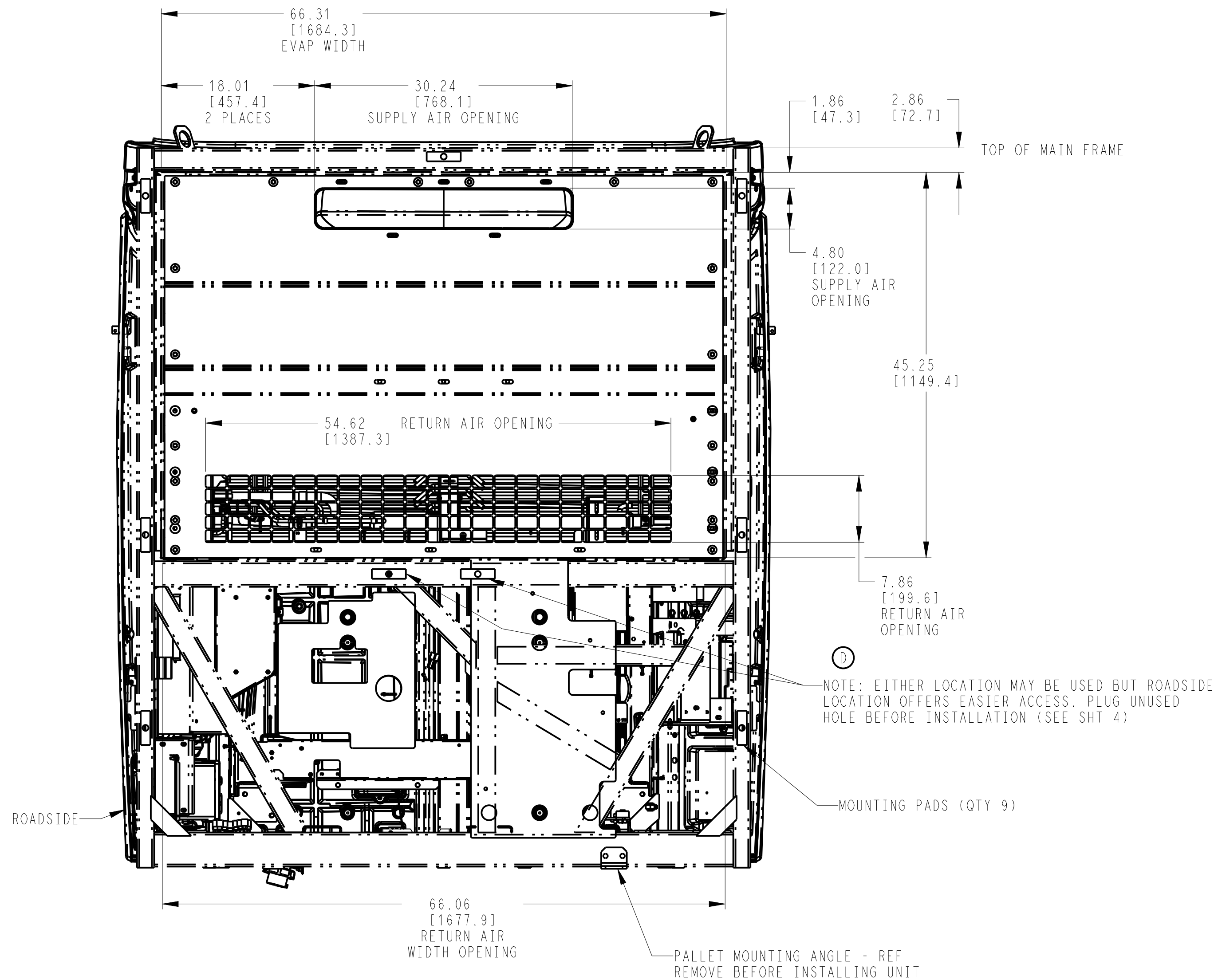
TITLE  
INSTALLATION INSTRUCTIONS  
TRAILER (VECTOR 8100)

DRAWING NO.  
98-02591  
SHEET 2 OF  
REV  
C

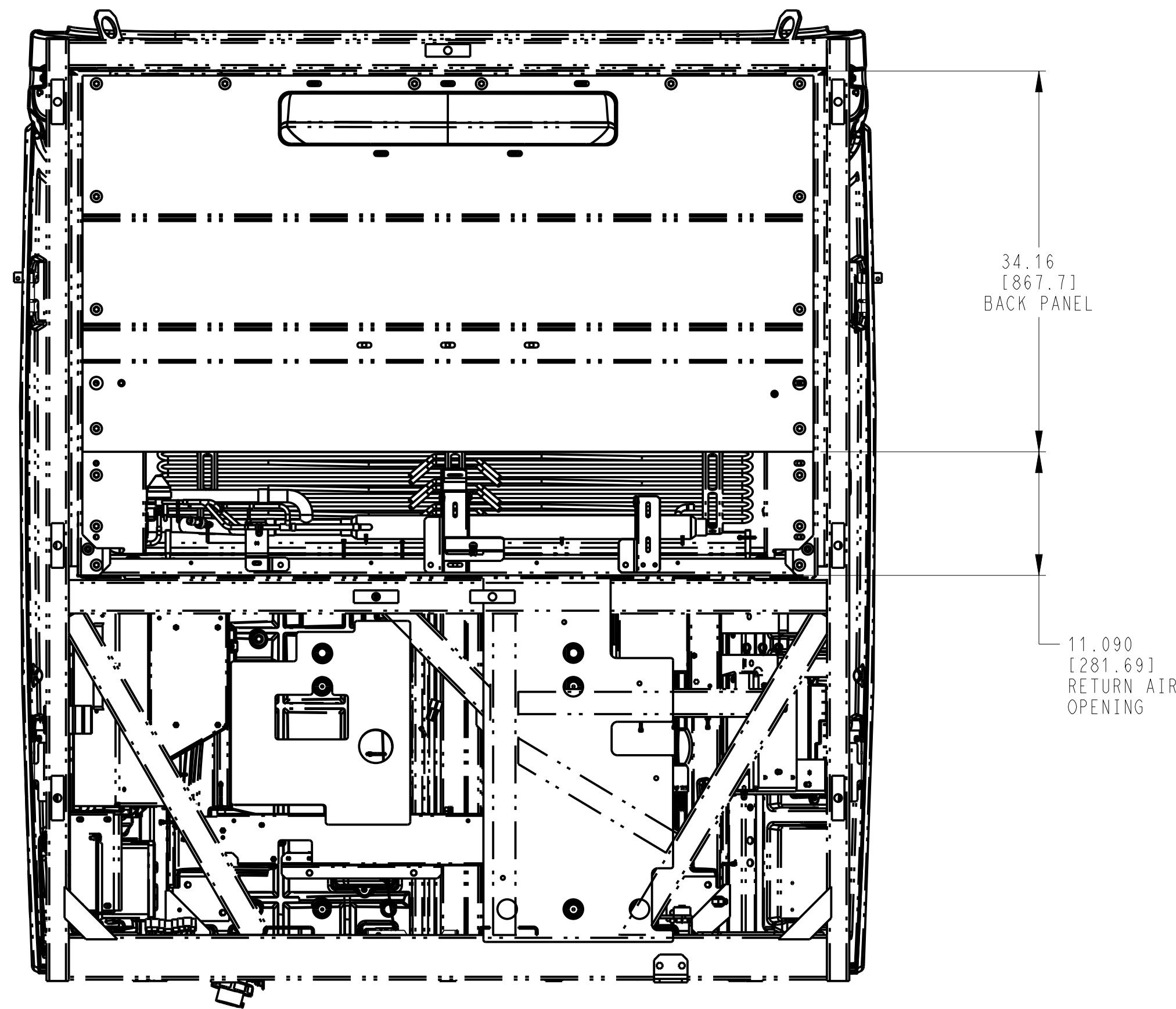
SUPERSEDES: \_\_\_\_\_

PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US EAR99

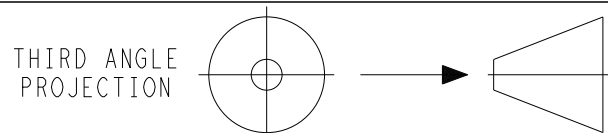


REAR VIEW : WITH UPPER AND LOWER BACK PANELS



REAR VIEW : UPPER BACK PANEL ONLY

D	REVISED NOTE TO PLUG UNUSED HOLE BEFORE INSTALLATION, WAS PLUG UNUSED HOLE AFTER INSTALLATION.	27 OCT 2022	ZMG	HW		ECN1161283
B	ADDED NOTE FOR REMOVING ANGLE PRIOR TO INSTALLATION.	04 APR 2017	ZMG			72N0217P17
-	INITIAL RELEASE.	14 MAR 2013	LT-KM			72N0560P12
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



IMPERIAL INCH FORMAT:  
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES WITH  
METRIC CONVERSIONS IN [MILLIMETERS]

TITLE  
INSTALLATION INSTRUCTIONS  
TRAILER (VECTOR 8100)

DRAWING NO.  
98-02591  
SHEET 3 OF  
REV  
D

SUPERSEDES: \_\_\_\_\_

PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US EAR99



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

THIS DOCUMENT AND THE INFORMATION CONTAINED THEREIN IS  
PROPRIETARY TO CARRIER CORPORATION AND SHALL NOT BE USED  
OR DISCLOSED TO OTHERS, IN WHOLE OR IN PART, WITHOUT THE  
WRITTEN AUTHORIZATION OF CARRIER CORPORATION.

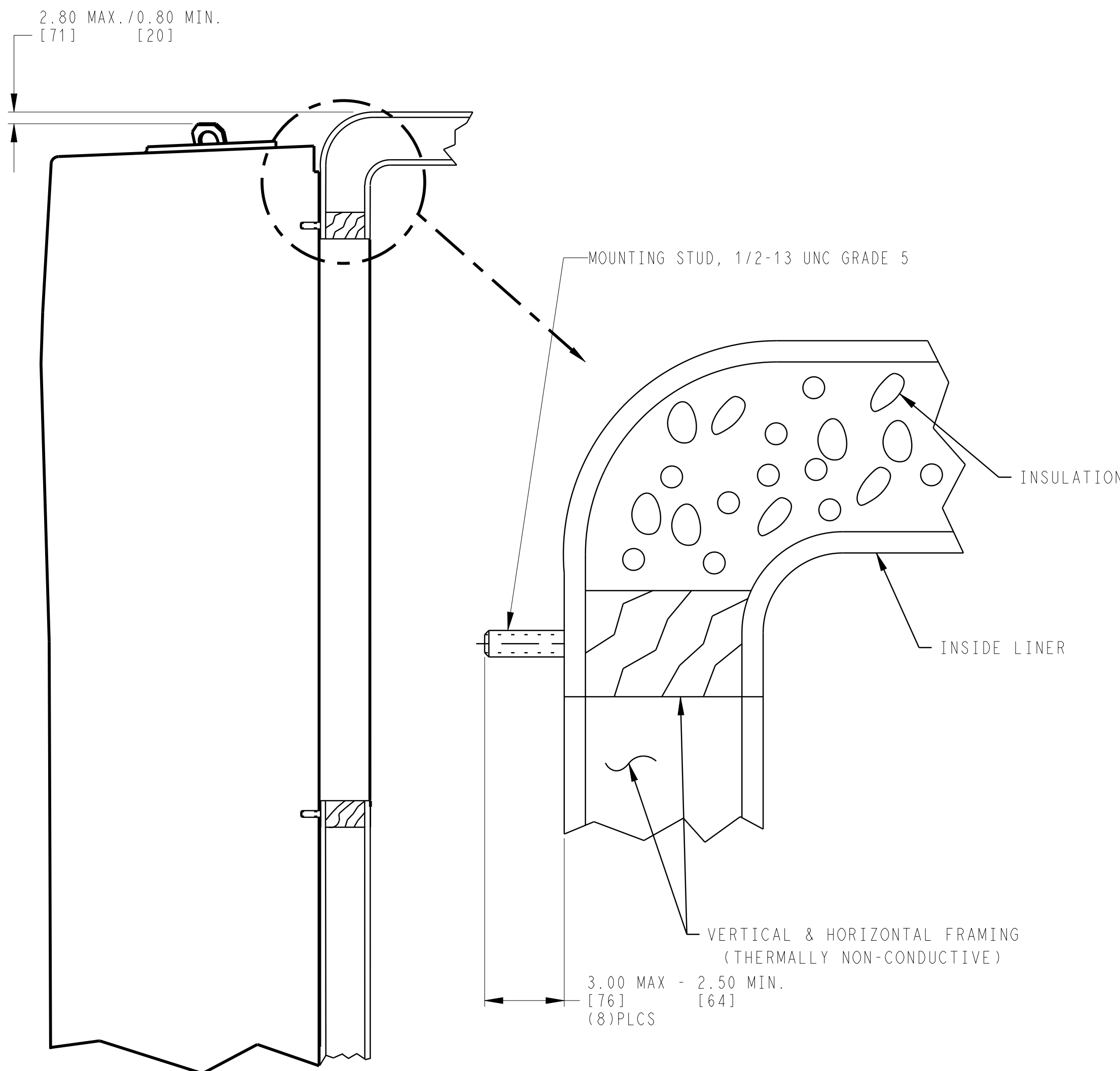
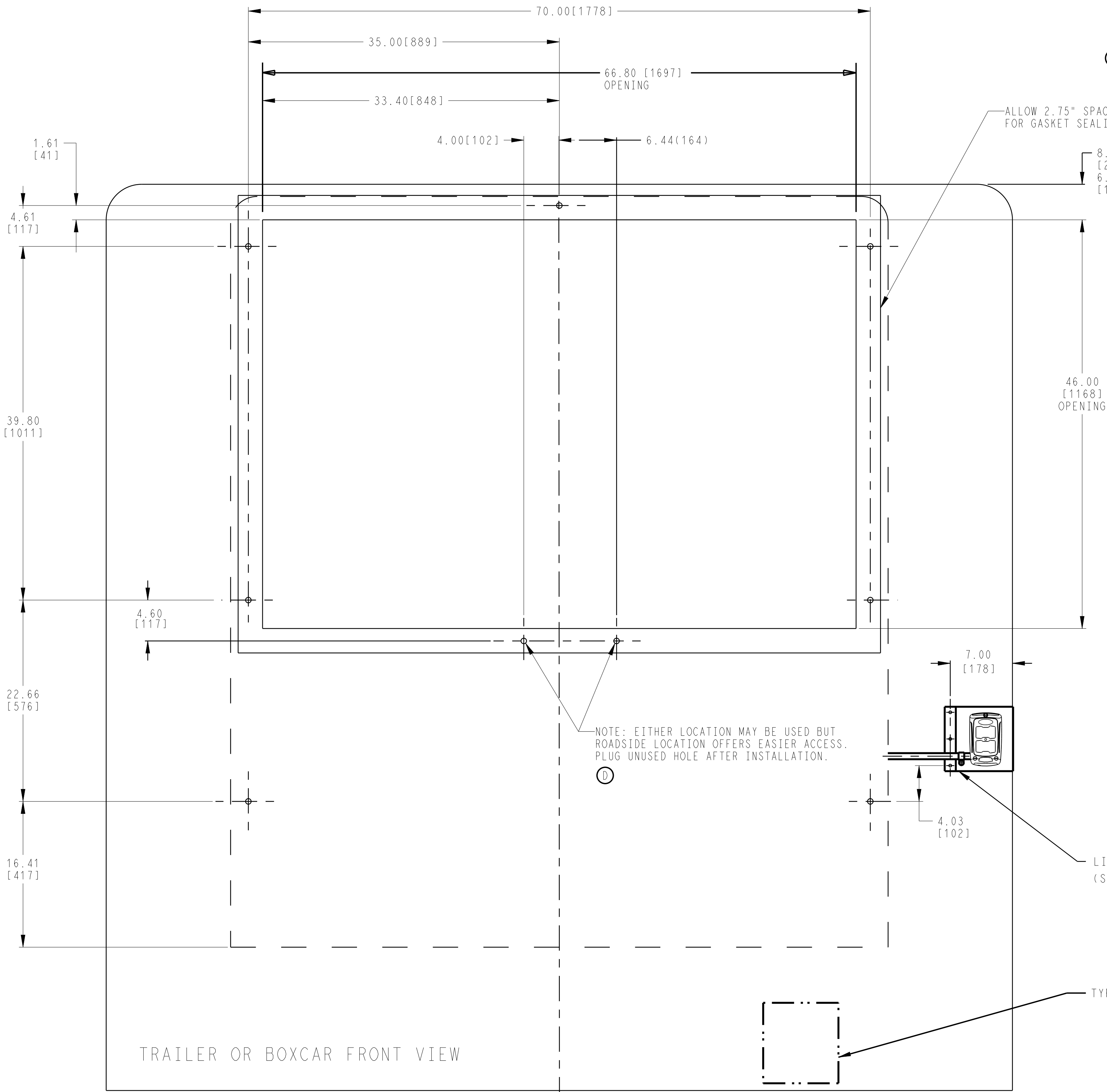
SUBMISSION OF THESE DRAWINGS OR DOCUMENTS  
DOES NOT CONSTITUTE PART PERFORMANCE OR  
ACCEPTANCE OF CONTRACT

# TRAILER OR BOXCAR BODY PREPARATION

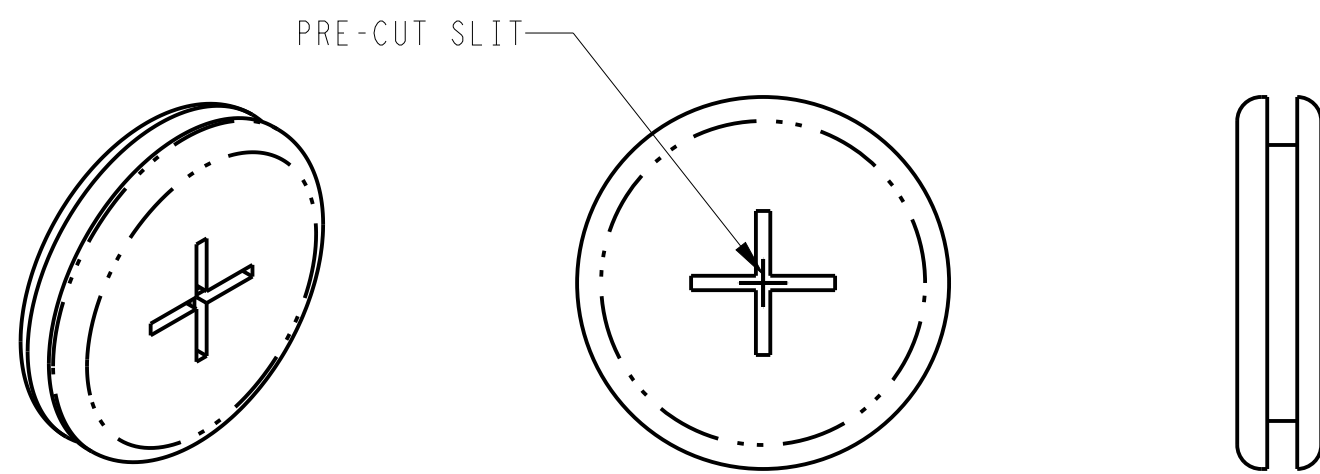
CAUTION: UNIT MOUNTING SURFACES OF TRAILER OR BOXCAR THAT CONTACT THE UNIT MOUNTING PADS MUST BE UNI-PLANAR TO WITHIN 0.13[3] TO PREVENT DISTORTION OF UNIT AND/OR TRAILER/BOXCAR.

CAUTION: TRAILER OR BOXCAR SURFACES THAT CONTACT THE UNIT MOUNTING GASKET SHOULD NOT PROTRUDE MORE THAN 0.19[5] ABOVE THE PLANE DEFINED BY THE MOUNTING PAD SURFACES TO ENSURE PROPER AIR SEAL.

NOTE: MOUNTING STUD NOT TO EXCEED 3.00 INCHES FROM TRAILER OR BOXCAR BODY FOR PROPER INSTALLATION OF MOUNTING HOLE PLUGS.

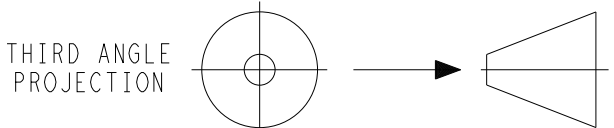


## TRAILER OR BOXCAR SIDE VIEW



## MOUNTING HOLE PLUG

D	REVISED NOTE TO PLUG UNUSED HOLE BEFORE INSTALLATION, WAS PLUG UNUSED HOLE AFTER INSTALLATION. ADDED NOTE FOR MOUNTING STUD. ADD VIEW FOR MOUNTING HOLE PLUG.	27 OCT 2022	ZMG	HW		ECN1161283
-	INITIAL RELEASE.	14 MAR 2013	LT-KM			72N0560P12
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



IMPERIAL INCH FORMAT:  
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES WITH  
METRIC CONVERSIONS IN [MILLIMETERS]

TITLE  
INSTALLATION INSTRUCTIONS  
TRAILER (VECTOR 8100)

DRAWING NO.  
98-02591  
SHEET 4 OF  
REV  
D

SUPERSEDES:

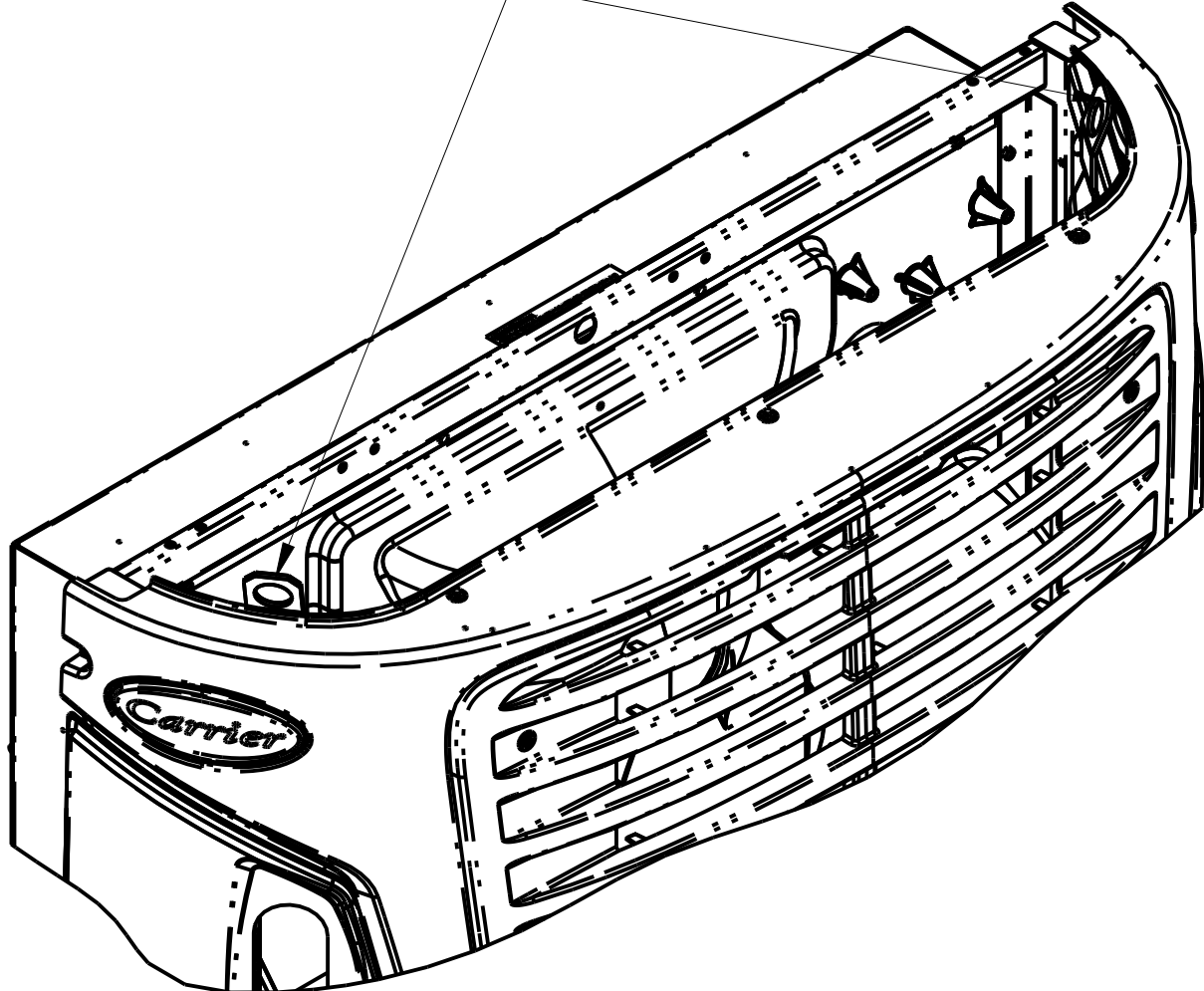
PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US EAR99



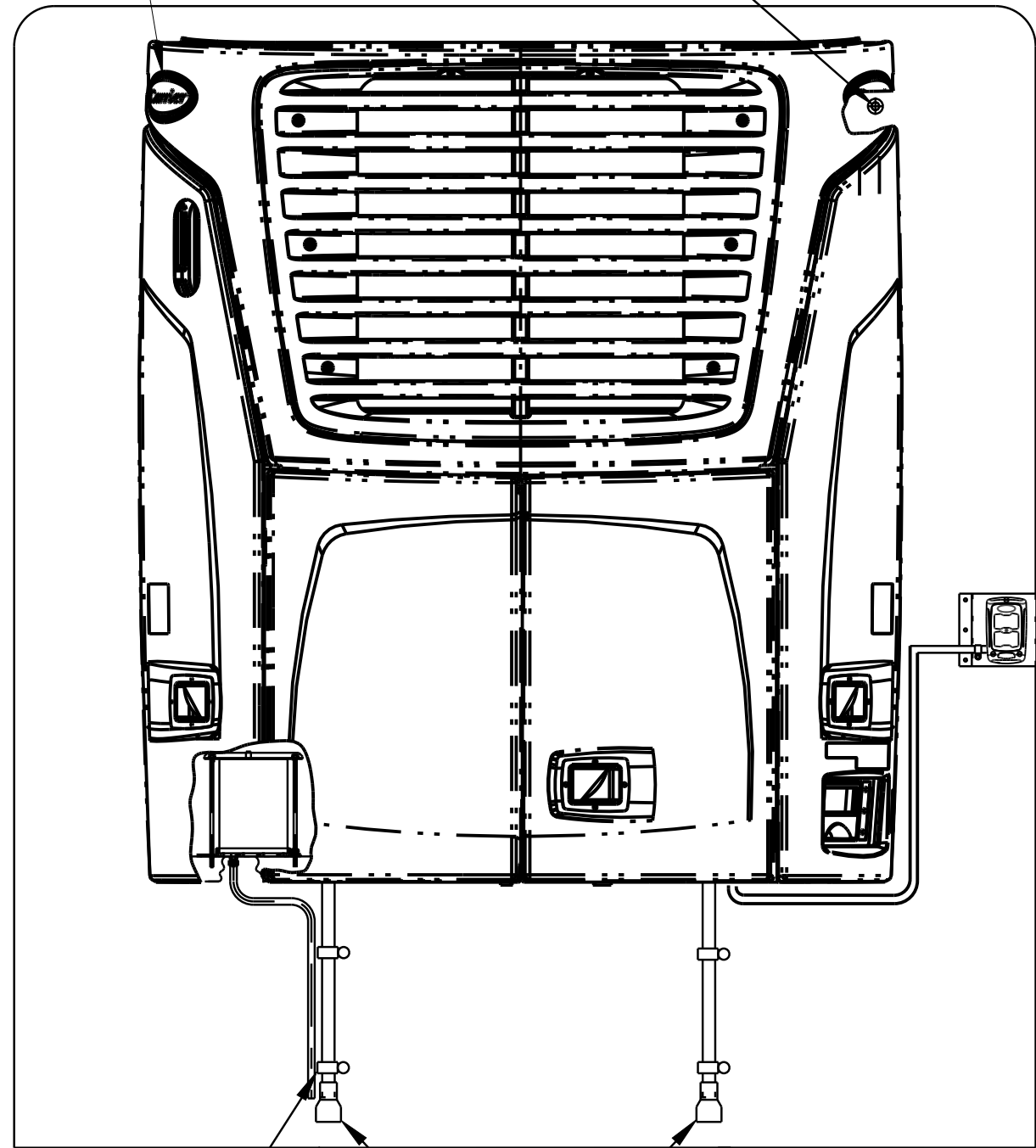
NOTE: BULKHEAD, AIR CHUTE AND TRANSITION DUCT SHOWN ARE OPTIONAL  
FEATURES. FOR BEST AIR CIRCULATION AND PRODUCT PROTECTION  
CARRIER TRANSCOLD HIGHLY RECOMMENDS THE USE OF BULKHEADS  
AIR CHUTES AND TRANSITION DUCTS. CONTACT YOUR DEALER OR  
CARRIER TRANSCOLD FOR RECOMMENDATIONS.

UNIT LIFTING LOCATION



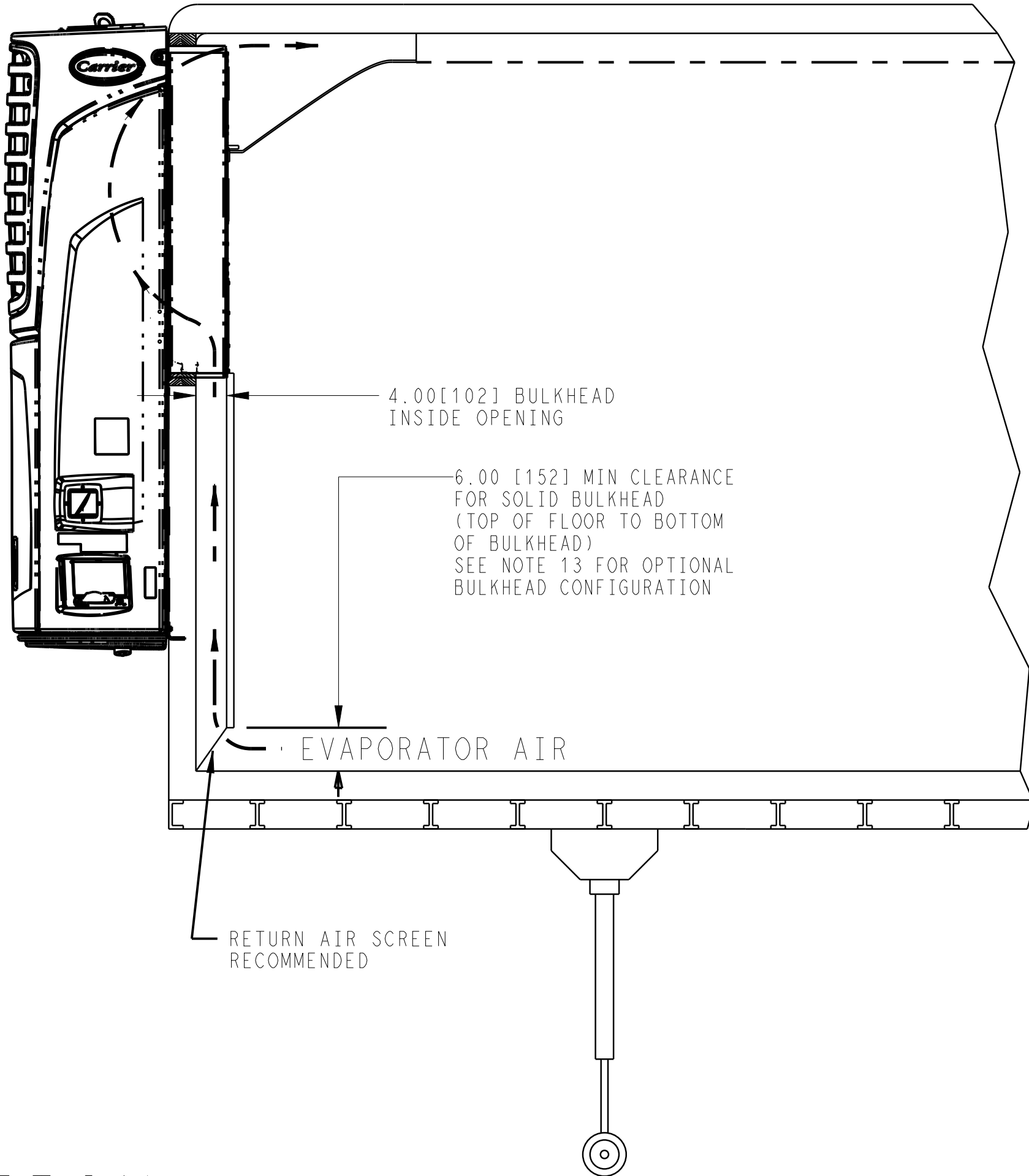
96—APPLY CARRIER OVAL AFTER UNIT IS FASTENED  
TO TRAILER AND MOUNTING HOLE IS PLUGGED.  
TWO PLACES

45 70 92—SEE NOTES 6.0 AND 7.0



CONDENSER AIR  
(FRONT FACE  
ONLY)

CONDENSER AIR



4.00[102] BULKHEAD  
INSIDE OPENING

6.00 [152] MIN CLEARANCE  
FOR SOLID BULKHEAD  
(TOP OF FLOOR TO BOTTOM  
OF BULKHEAD)  
SEE NOTE 13 FOR OPTIONAL  
BULKHEAD CONFIGURATION

EVAPORATOR AIR

RETURN AIR SCREEN  
RECOMMENDED

90  
DRAIN LINES SUPPLIED WITH REEFER UNIT,  
CUT TO SUIT.  
(DO NOT KINK OR OTHERWISE CLOSE DOWN TUBE I.D.)

15 30—SEE NOTE 8.0

## UNIT INSTALLATION

### PREPARE UNIT FOR INSTALLATION:

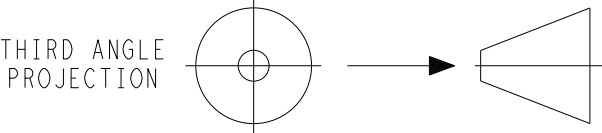
- 1.0 ENSURE ALL 8 STUDS ARE PERMANENTLY SECURED TO THE TRAILER FRONT WALL.  
PREPARE THE BODY TO RECEIVE THE UNIT. DIMENSIONS FOR EVAPORATOR OPENING AND  
MOUNTING STUD LOCATIONS AND LENGTHS CAN BE FOUND ON SHEET 4 OF THIS DRAWING.
- 2.0 REMOVE WIRE TIES HOLDING DEFROST DRAIN HOSES. PLACE LINES WHERE THEY  
WILL NOT BE CAUGHT BETWEEN THE UNIT FRAME AND THE MOUNTING SURFACE.  
REMOVE PALLET MOUNTING ANGLE ON BACK BOTTOM OF FRAME.
- 3.0 OPEN SIDE DOORS TO ALLOW ACCESS TO MOUNTING STUD LOCATIONS ON UNIT.  
3.1 PLUG UNUSED HOLE WITH HOLE PLUG.
- 4.0 INSTALL BATTERY ACCORDING TO INSTRUCTIONS ON SHEET 6-7. TO PREVENT  
ACCIDENTAL ELECTRIFICATION, DO NOT REMOVE TERMINAL COVERS OR CONNECT  
TERMINALS UNTIL AFTER UNIT IS COMPLETELY INSTALLED.
- 5.0 PREPARE THE UNIT FOR LIFTING:  
STANDING ON A LADDER OR WORK-STAND, MAKE A CLOSE-UP INSPECTION OF THE  
CONDITION AND INTEGRITY OF THE LIFTING EYES, THEN HOOK LIFTING APPARATUS  
(LIFTING SPREADER BAR WITH SUFFICIENT CAPACITY TO SUPPORT UNIT AND BATTERY)  
THROUGH THE LIFTING EYES.

**WARNING:** HOOKS OR CLEVISSES SHOULD BE EQUIPPED WITH A LOCKING FEATURE. LIFT  
POINT SHOULD BE CENTERED OVER THE UNIT'S CENTER OF GRAVITY (SEE SHEET 2).  
WHILE LIFTING THE UNIT INTO PLACE, INSTALLER SHOULD NOT BE UNDER OR IN  
PROXIMITY OF THE SUSPENDED UNIT.

### UNIT INSTALLATION:

- 6.0 RAISE THE UNIT AND INSTALL IN THE BODY OPENING. ENSURE THAT ALL EIGHT STUDS  
ARE FULLY ENGAGED IN THE UNIT FRAME. PLACE WASHER (ITEM 70) AND LOCK-NUT (ITEM  
45) ON EACH OF THE 8 STUDS (1/2-13 UNC GRADE 5). (NOTE: THE LOWER CENTER STUD  
MUST BE ACCESSED FROM THE FRONT OF THE UNIT.) SNUG THE NUTS, THEN EVENLY  
TIGHTEN ALL EIGHT TO 75-80 FT-LB/102-109 NM DRY USING A TORQUE WRENCH. FOR  
ALTERNATE SIZE M14 CLASS 8.8 STUDS, TIGHTEN ALL EIGHT TO 83 FTLBS/112 NM DRY  
USING A TORQUE WRENCH. FOR ALTERNATE SIZE M13 CLASS 8.8 STUDS, TIGHTEN ALL  
EIGHT TO 77 FTLBS/104 NM DRY USING A TORQUE WRENCH. REMOVE LIFTING APPARATUS.
  - 7.0 INSTALL MOUNTING HOLE PLUGS (ITEM 92) IN UNIT FRAME WHERE MOUNTING STUDS  
ARE LOCATED. ENSURE ALL 9 LOCATIONS HAVE HOLE PLUGS. IF THE MOUNTING STUD  
EXCEEDS THE MAXIMUM LENGTH OF 3.0 INCHES FROM THE TRAILER OR BOXCAR SURFACE,  
A PRE-CUT SLIT IS INCORPORATED IN THE MOUNTING HOLE PLUG TO ALLOW THE STUD TO  
PROTRUDE THROUGH THE PLUG. (SEE SHT.4).
  - 8.0 ROUTE DEFROST DRAIN HOSES DOWN THE FRONT OF THE TRAILER OR BOXCAR AND CLAMP  
TO FRONT WALL USING 2 CLAMPS (ITEM 15) AND 2 THREAD FORMING SCREWS (ITEM 30)  
FOR EACH DRAIN HOSE. CUT HOSE TO PROPER LENGTH (APPROXIMATELY 3.00[76.2]  
ABOVE 5+h-WHEEL PLATE ON TRAILER) AND INSTALL KAZOOS (ITEM 90) ON THE HOSES.
  - 9.0 INSTRUCTIONS FOR LIGHT BAR INSTALLATION ARE INCLUDED WITH THE LIGHT BAR KIT.
- ### AFTER INSTALLATION
- 10.0 PERFORM PRE-DELIVERY INSPECTION. COPIES OF COMPLETED CHECKLIST  
SHOULD BE SUPPLIED TO SELLING DEALER AND CUSTOMER.
  - 11.0 OPERATE UNIT IN CONTINUOUS RUN WITH REAR DOORS OPEN (MANUAL) MODE.  
REFER TO THE PRE-DELIVERY INSPECTION FORM SUPPLIED WITH UNIT KIT  
FOR THE RECOMMENDED LENGTH OF TIME. PERFORM FINAL INSPECTION ON UNIT.  
RUN- IN SET UP SHOULD BE "PER PDI SHEET".
  - 12.0 IMPORTANT: PRIOR TO FINAL DELIVERY TO CUSTOMER, WARRANTY REGISTRA-  
TION MUST BE COMPLETED. ONE COPY SHOULD BE PROVIDED TO THE CUSTOMER.  
ONE COPY TO THE SELLER, AND THE FINAL COPY MUST BE SENT TO CARRIER  
TRANSCOLD. IN-SERVICE DATE MUST BE STAMPED ON THE UNIT IN THE  
PROPER LOCATION (SERIAL NUMBER PLATE) TO ACTIVATE WARRANTY COVERAGE.
  - 13.0 OPTIONAL BULKHEAD CONFIGURATION: HOLE PATTERN OR OPEN AREA FOR RETURN  
AIR FLOW MUST TOTAL AT LEAST 2.75 SQFT OF AIR PASSAGE. HOLE PATTERN OR  
OPEN AREA MUST BE RECESSED SO THAT CARGO LOADED AGAINST BULKHEADS, THAT MEET  
THESE REQUIREMENTS, MAY BE INSTALLED TIGHT WITH FLOOR.

E	UPDATED SPEC 1.0 AND 6.0.	02 MAY 2025	ZMG	NB		ECN1195346
D	UPDATED SPEC 1.0 & 7.0. ADDED SPEC 3.1.	27 OCT 2022	ZMG	HW		ECN1161283
C	UPDATED STEP 4.0 & 5.0.	14 AUG 2019	LT-SK	RC		72N0242P19
B	REVISED NOTES 10.0, 11.0 AND 12.0.	04 APR 2017	ZMG			72N0217P17
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



IMPERIAL INCH FORMAT:  
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES WITH  
METRIC CONVERSIONS IN [MILLIMETERS]

TITLE

INSTALLATION INSTRUCTIONS  
TRAILER (VECTOR 8100)

DRAWING NO.

98-02591

SHEET 5 OF

REV

E

SUPERSEDES:

PART CLASSIFICATION: US EAR99



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

THIS DOCUMENT AND THE INFORMATION CONTAINED THEREIN IS PROPRIETARY TO CARRIER CORPORATION AND SHALL NOT BE USED OR DISCLOSED TO OTHERS, IN WHOLE OR IN PART, WITHOUT THE WRITTEN AUTHORIZATION OF CARRIER CORPORATION.

SUBMISSION OF THESE DRAWINGS OR DOCUMENTS DOES NOT CONSTITUTE PART PERFORMANCE OR ACCEPTANCE OF CONTRACT

# BATTERY INSTALLATION INSTRUCTIONS

SEE NEXT SHEET FOR PICTORIALS OR REFER TO BATTERY INSTALLATION DOCUMENT IN POLY BAG FASTENED TO BATTERY TRAY PLATE.

## UNITS SUPPLIED WITH BATTERY INSTALLED

- 1.0 CUT WIRE TIE(S) THAT HOLD BATTERY CABLES TO UNIT FRAME.
- 2.0 CONNECT RED BATTERY CABLE TO THE POSITIVE (+) BATTERY TERMINAL; CONNECT BLACK CABLE TO NEGATIVE (-) BATTERY TERMINAL (USE OF CORROSION INHIBITOR IS RECOMMENDED).
- 3.0 POSITION TERMINAL COVERS SUPPLIED WITH CABLES OVER TERMINALS.


## UNITS SUPPLIED WITHOUT BATTERY INSTALLED

- 1.0 USE THE FOLLOWING INFORMATION TO CORRECTLY SELECT THE BATTERY PERFORMANCE NEEDED FOR REFRIGERATION UNITS.

GROUP SIZE: GROUP 31  
VENT LOCATION: SIDE VENT  
VOLTS: 12 VOLTS DC  
AMPERAGE: MINIMUM 700 COLD CRANKING AMPS @ 0°F  
MINIMUM 545 COLD CRANKING AMPS @ -20°F

NOTE: WHEN SELECTING A SPECIFIC BRAND OF BATTERY, ALWAYS ENSURE THAT THE BATTERY CHOSEN IS RATED AT 0°F (0 DEGREES FAHRENHEIT) AND NOT 0°C (0 DEGREES CELSIUS). FAILURE TO USE THE PROPER BATTERY SIZE WILL RESULT IN REDUCED BATTERY LIFE AND A NO-START CONDITION. THE RECOMMENDED MAXIMIM BATTERY WEIGHT IS 80 LBS.

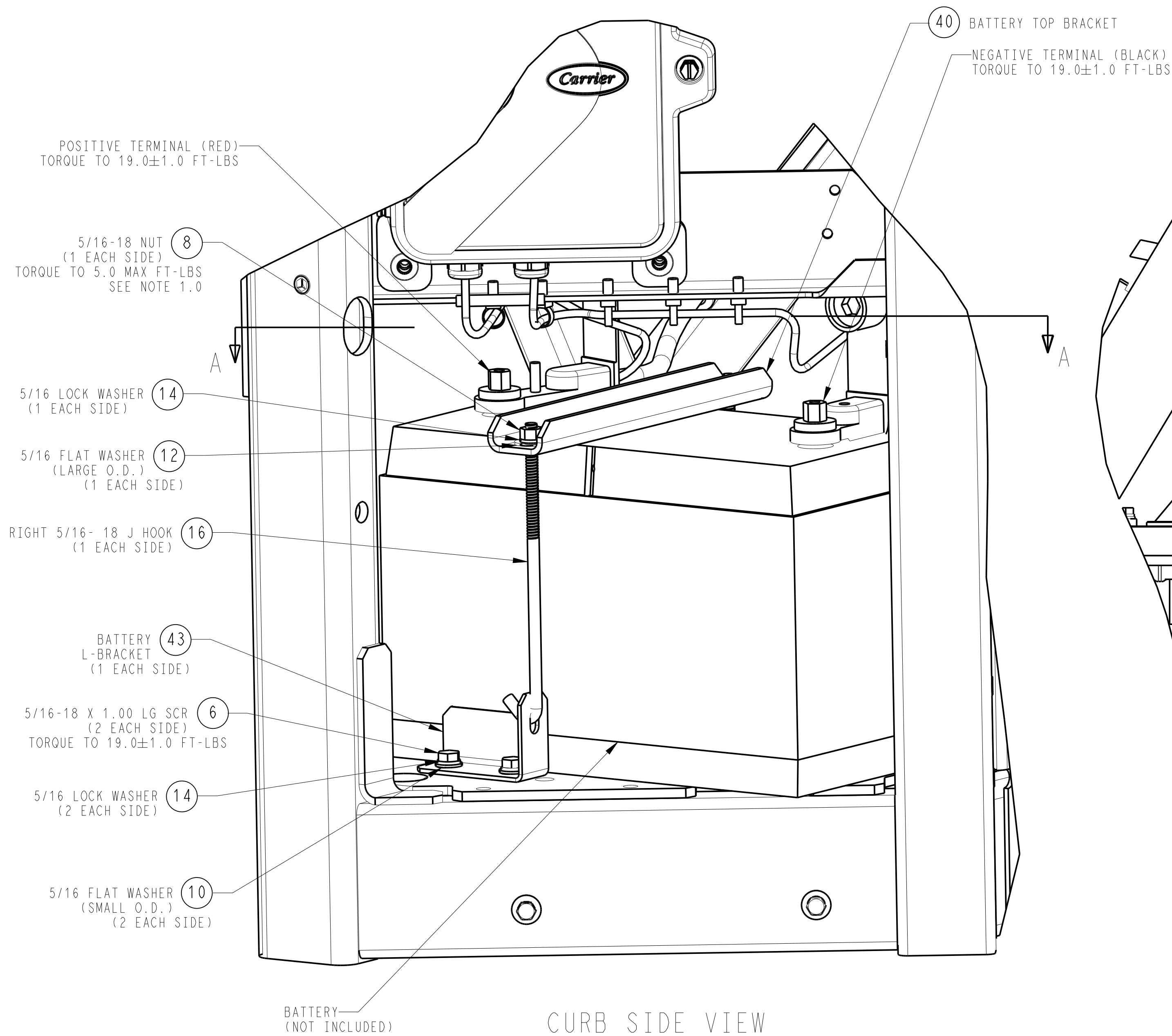
- 2.0 CUT WIRE TIE HOLDING THESE PARTS IN THE BATTERY TRAY AND REMOVE PARTS. PLACE BATTERY IN TRAY WITH POSITIVE (+) TERMINAL TO THE REAR OF THE UNIT (AS SHOWN). CONNECT BATTERY CABLES (THE USE OF A CORROSION INHIBITOR ON THE TERMINALS IS RECOMMENDED); RED CABLE TO POSITIVE (+) TERMINAL, BLACK CABLE TO THE NEGATIVE (-) TERMINAL. CABLES SHOULD BE ROUTED TOWARD THE COMPRESSOR (AS SHOWN). TIGHTEN TERMINAL CONNECTORS SECURELY.
- 3.0 INSTALL SCREWS AND HOLD-DOWN CHANNEL USING PLAIN AND LOCK WASHERS AS SHOWN. SECURELY TIGHTEN THE SCREWS TO PREVENT MOVEMENT OF THE BATTERY.
- 4.0 POSITION TERMINAL COVERS SUPPLIED WITH CABLES OVER TERMINALS.

-	INITIAL RELEASE.	14 MAR 2013	ZMG			72N0560P12	THIRD ANGLE PROJECTION		IMPERIAL INCH FORMAT: UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES WITH METRIC CONVERSIONS IN [MILLIMETERS]	TITLE  INSTALLATION INSTRUCTIONS TRAILER (VECTOR 8100)	DRAWING NO.  98-02591 SHEET 6 OF	REV  -
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.						
SUPERSEDES: _____												

DRAWING CLASSIFICATION: US EAR99

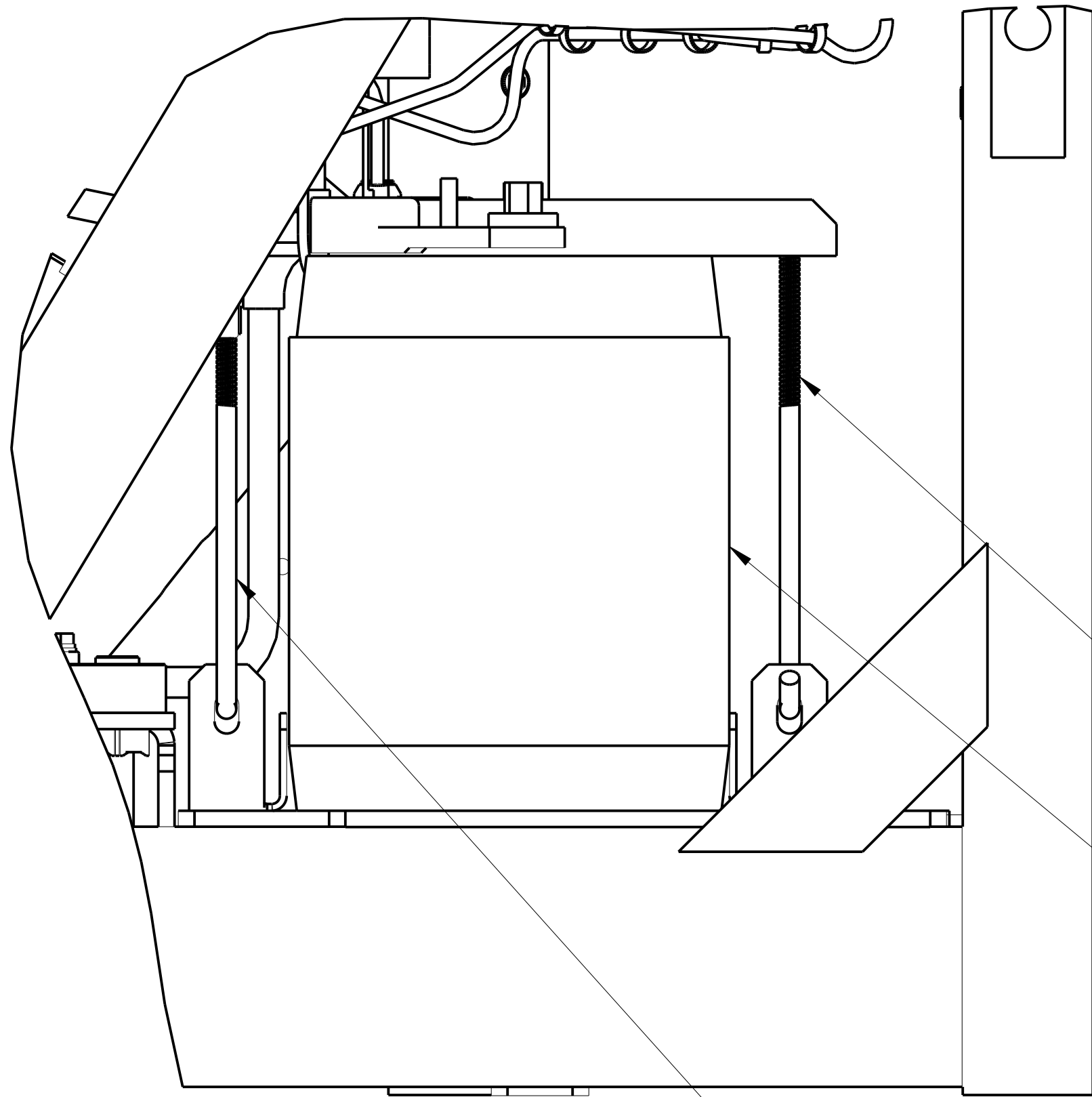
NOTE:

- 1.0 CAUTION: DUE TO DIFFERENT BATTERY MFG. WHEN APPLYING TORQUE TO BATTERY U-BRACKET, MAKE SURE THERE IS NO BATTERY HOUSING DISTORTION OR CRUSHING.
- 2.0 WHEN INSTALLING POSITIVE BATTERY CABLE TO BATTERY POST ENSURE THERE IS CLEARANCE BETWEEN THE CABLE AND THE FRAME.
  - 2.1 VECTOR 8500/8600: 0°
  - 2.2 VECTOR NDKA: 15°
- 3.0 WHEN INSTALLING LEFT J-HOOK INTO L-BRACKET ROTATE OPPOSITE OF RIGHT J-HOOK.

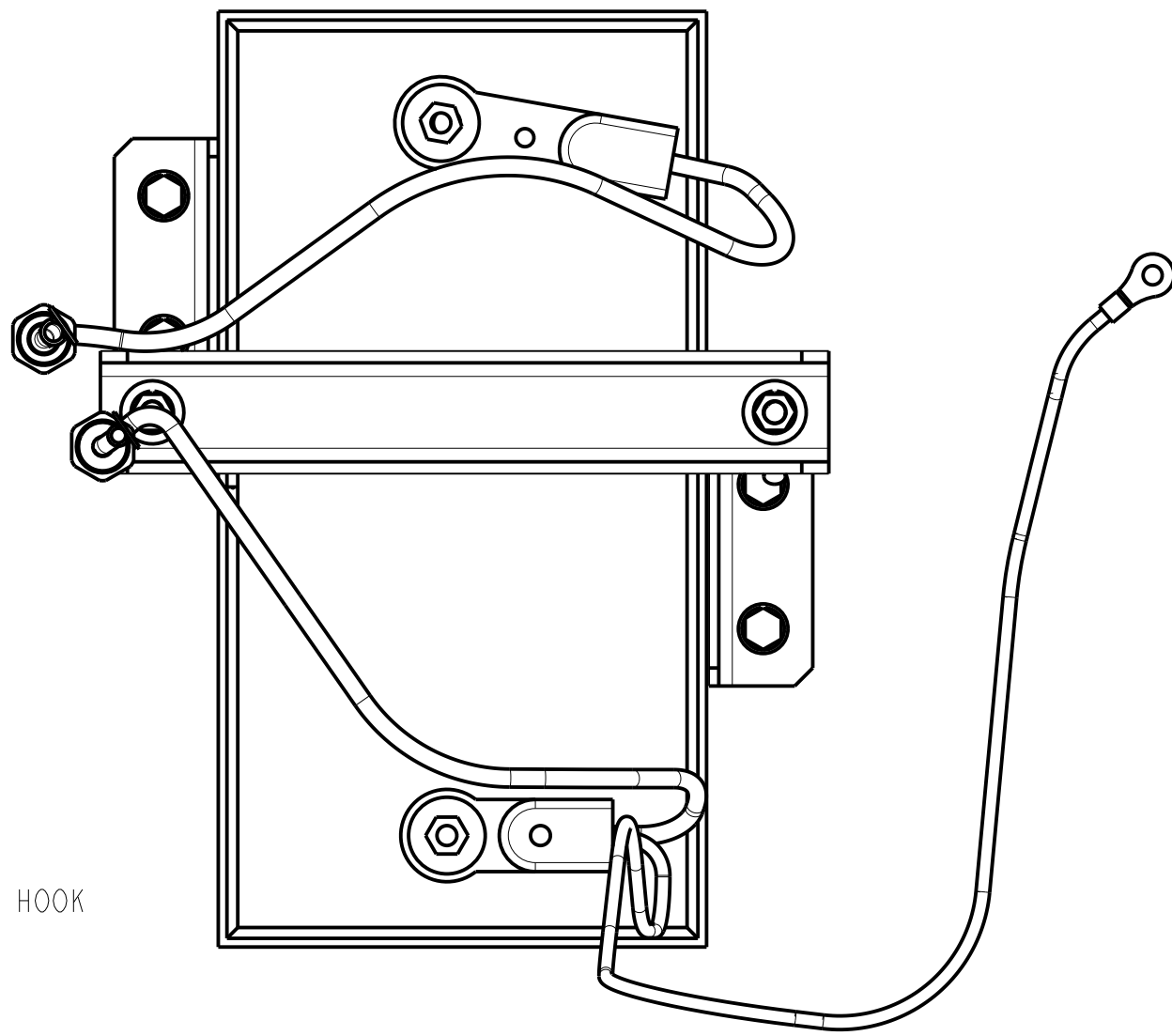


CURB SIDE VIEW

INSTALL BATTERY INTO  
UNIT WITH POSITIVE (+) TERMINAL  
TOWARD THE REAR.



REAR VIEW



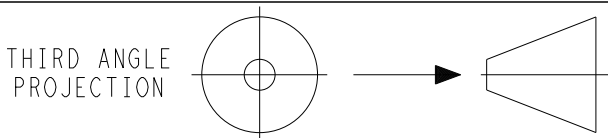
TOP OF BATTERY  
TYPICAL CABLE ROUTING FOR:  
VECTOR 8100

VIEW A-A  
BATTERY CABLE ARRANGEMENT.

## BATTERY INSTALLATION PROCEDURE FOR UNITS SHIPPED WITHOUT BATTERY.

LOCATE BAG STRAPPED TO VERTICAL REAR TUBE NEXT TO BATTERY TRAY  
AND REMOVE U-BRACKET, L-BRACKETS & MOUNTING HARDWARE.

A	BATTERY INSTALLATION PROCEDURE UPDATED	22 JUN 2015	LT-SJ			72N0051P14
-	INITIAL RELEASE	14 MAR 2013	LT-KM			72N0560P12
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



IMPERIAL INCH FORMAT:  
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES WITH  
METRIC CONVERSIONS IN [MILLIMETERS]

TITLE  
INSTALLATION INSTRUCTIONS  
TRAILER (VECTOR 8100)

DRAWING NO.  
98-02591  
SHEET 7 OF

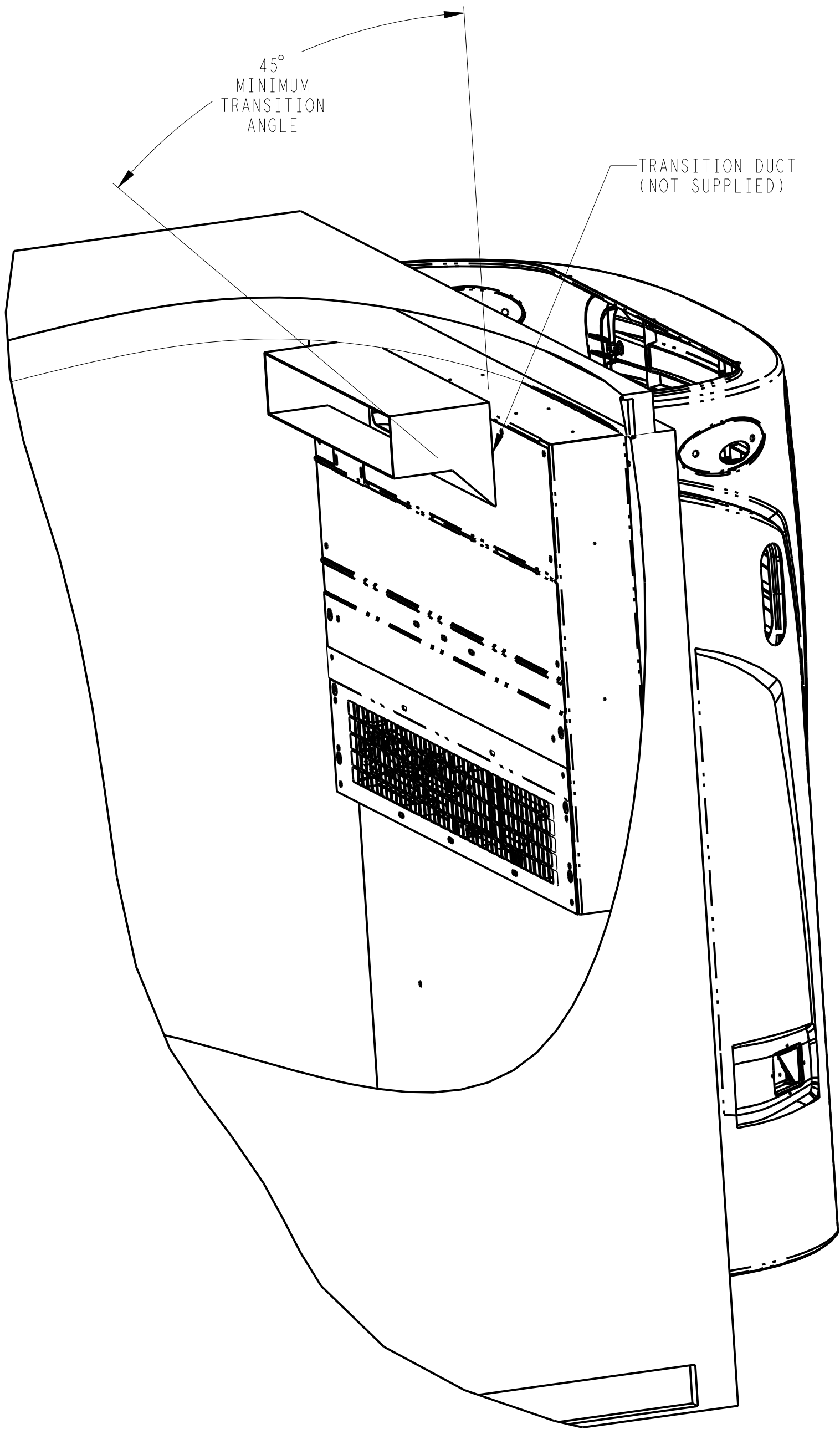
REV  
A

SUPERSEDES:

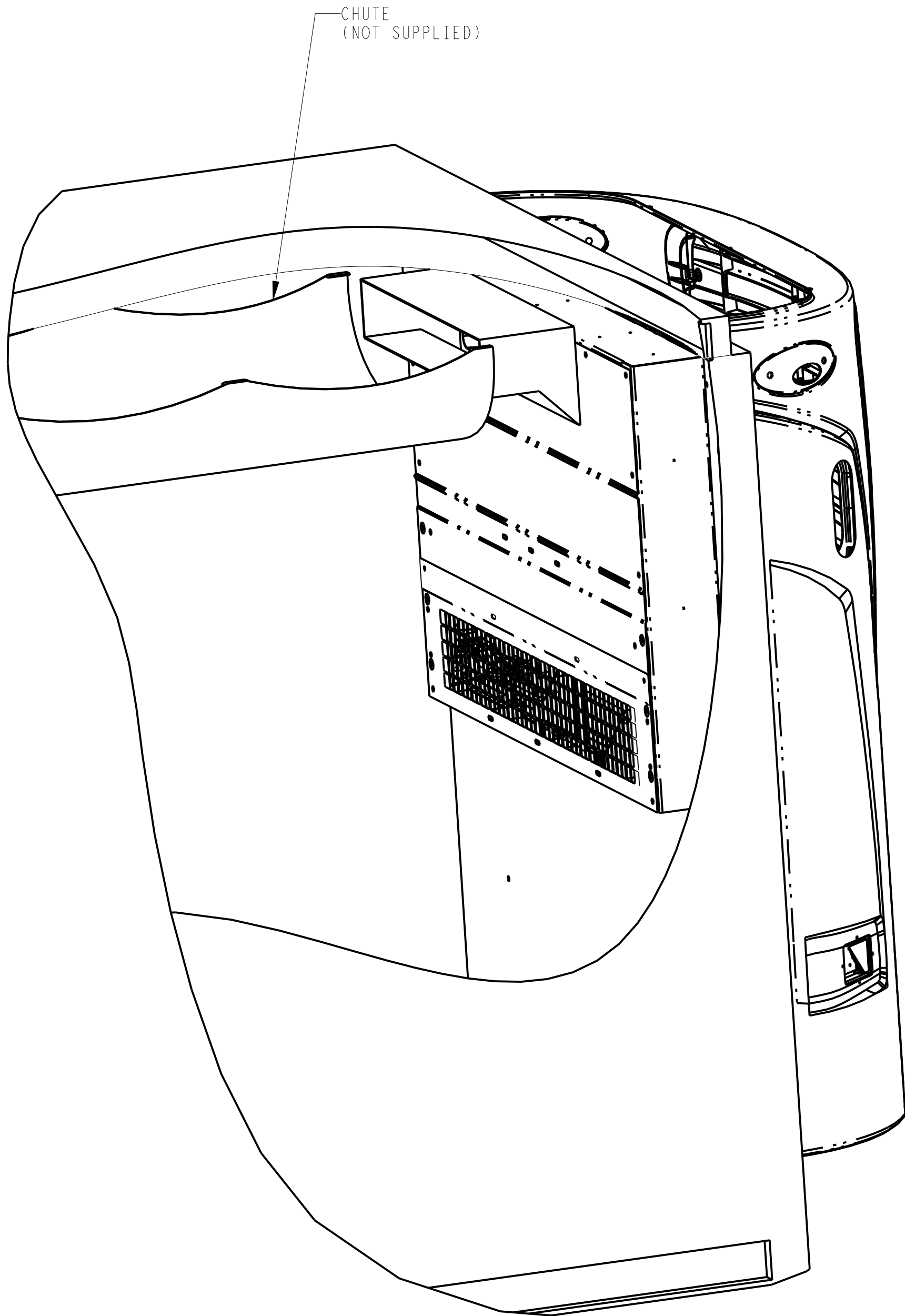
PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US EAR99

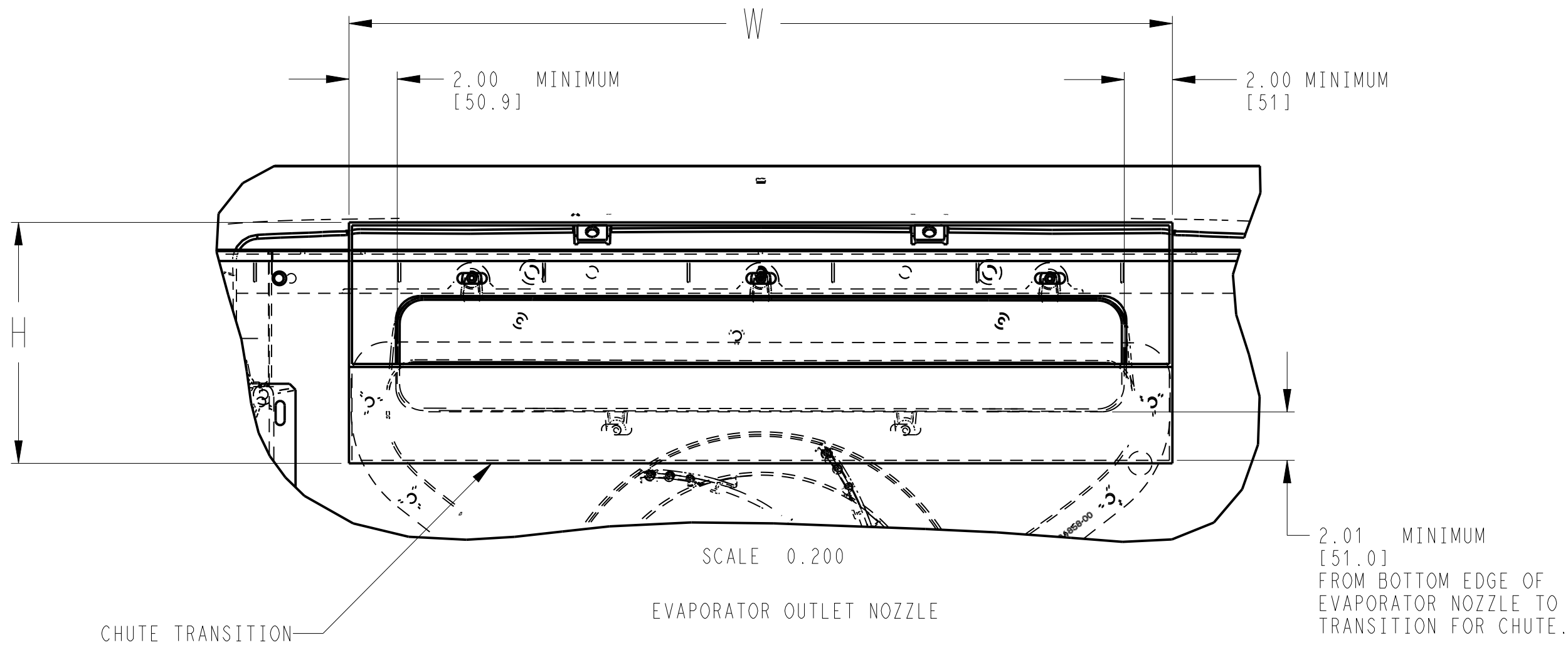
NOTE: BULKHEAD, AIR CHUTE AND TRANSITION DUCT SHOWN ARE OPTIONAL FEATURES. FOR BEST AIR CIRCULATION AND PRODUCT PROTECTION CARRIER TRANSCOLD HIGHLY RECOMMENDS THE USE OF BULKHEADS AIR CHUTES AND TRANSITION DUCTS. CONTACT YOUR DEALER OR CARRIER TRANSCOLD FOR RECOMMENDATIONS.



CHUTE REMOVED FOR CLARIFICATION OF TRANSITION

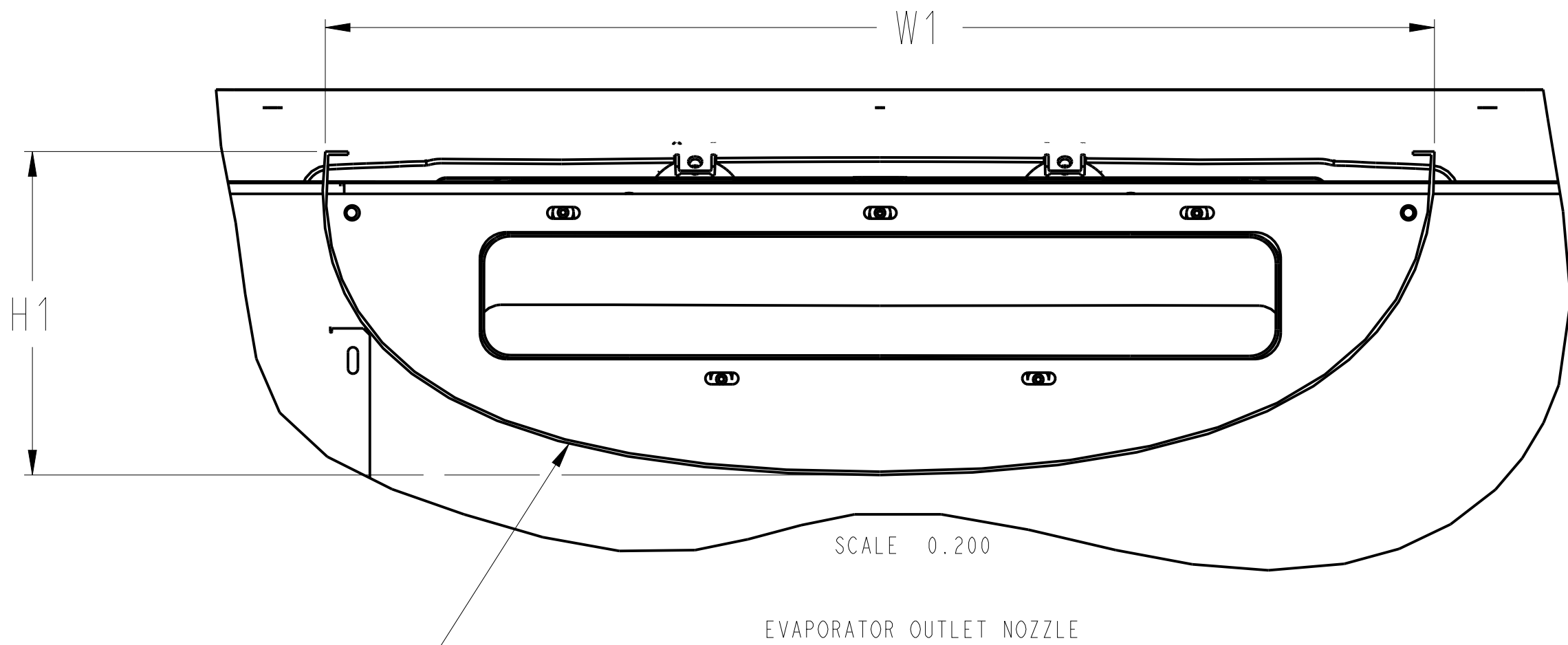


TRANSITION & CHUTE DETAILS



HARD RECTANGULAR CHUTE MIN. DIMENSIONS

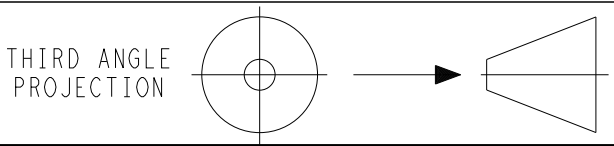
W	H
60.00	6.00
54.00	6.75
48.00	7.50
42.00	8.75
36.00	10.00
30.00	12.00



SOFT CHUTE MINIMUM DIMENSIONS

W1	H1
60.00	9.00
54.00	9.75
48.00	11.00
42.00	12.25
36.00	13.75
30.00	15.00

-	INITIAL RELEASE.	14 MAR 2013	LT-KM			72N0560P12
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



IMPERIAL INCH FORMAT:  
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES WITH  
METRIC CONVERSIONS IN [MILLIMETERS]

TITLE  
INSTALLATION INSTRUCTIONS  
TRAILER (VECTOR 8100)

DRAWING NO.	REV
98-02591	1
SHEET 8 OF	

SUPERSEDES: \_\_\_\_\_

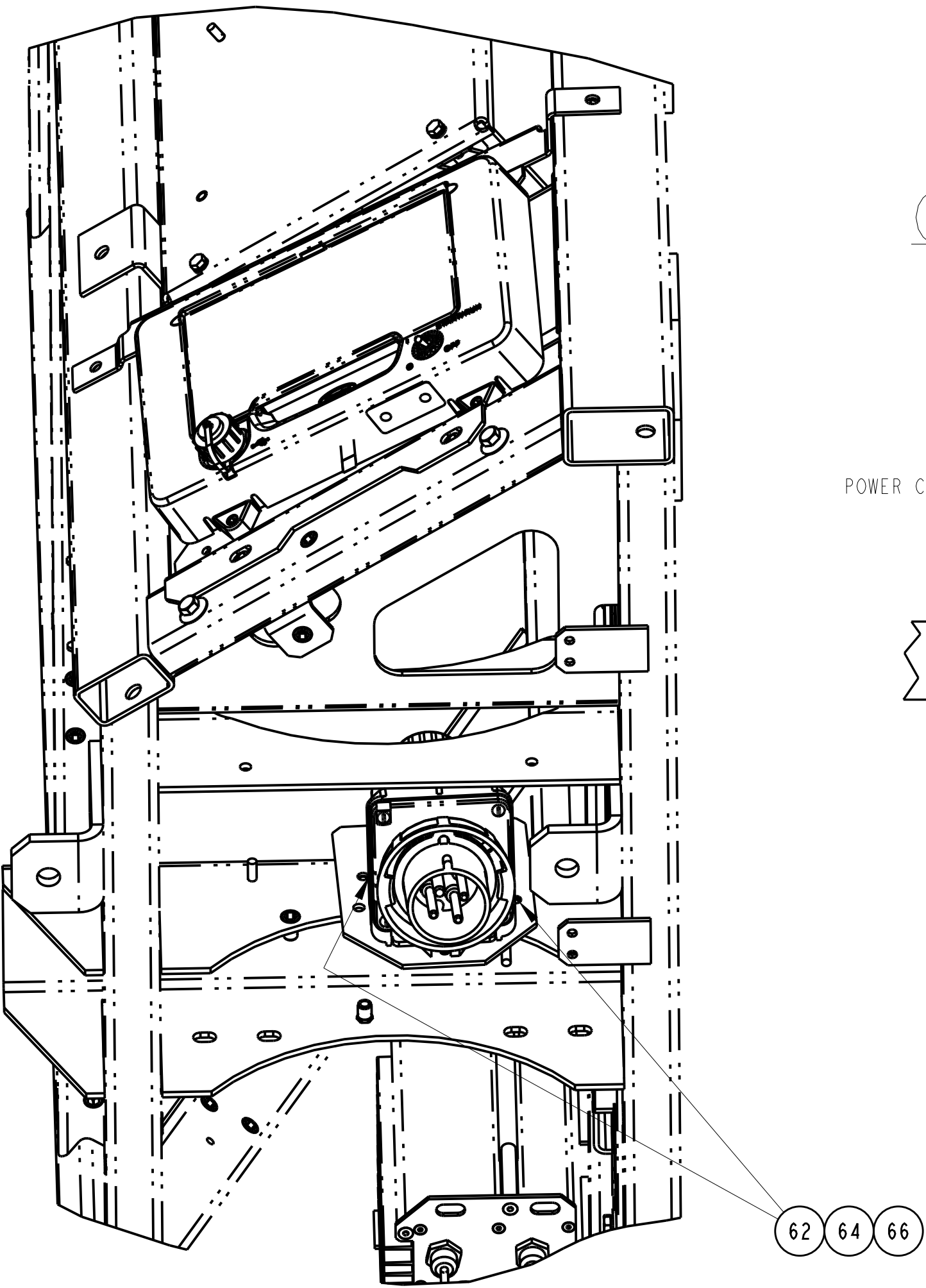
PART CLASSIFICATION: US EAR99

ELECTRICAL SPECIFICATIONS & MINIMUM STANDBY  
INFRASTRUCTURE FOR CARRIER TRANSICOLD TRAILER  
UNITS EQUIPPED WITH STANDBY

	VECTOR 8100 W/STBY
OPERATING VOLTAGE	460V/3PH/60HZ
FULL LOAD AMP DRAW (FLA)	22 A
KVA	18.5
LOCKED ROTOR AMP DRAW (LRA)	90A
ELECTRICAL RECEPTACLE (INSTALLED ON UNIT)	IEC IP 67 PIN & SLEEVE, 480V, 30A, 4 WIRE, 3 POLE
RECEPTACLE P/N	22-04166-01
PHASE REVERSAL	AUTOMATIC
STANDBY CIRCUIT BREAKER & CORDSET SPECIFICATIONS	
STANDBY CABLE TYPE & GAUGE (MIN 50' LONG, UP TO 75' LONG)	SOOW, 600V, 90C, 10/4, (3PH+G)
RECOMMENDED EXTERNAL CIRCUIT BREAKER	30A
CONNECTOR P/N	22-02944-00

MINIMUM REQUIREMENTS FOR STANDBY INFRASTRUCTURE

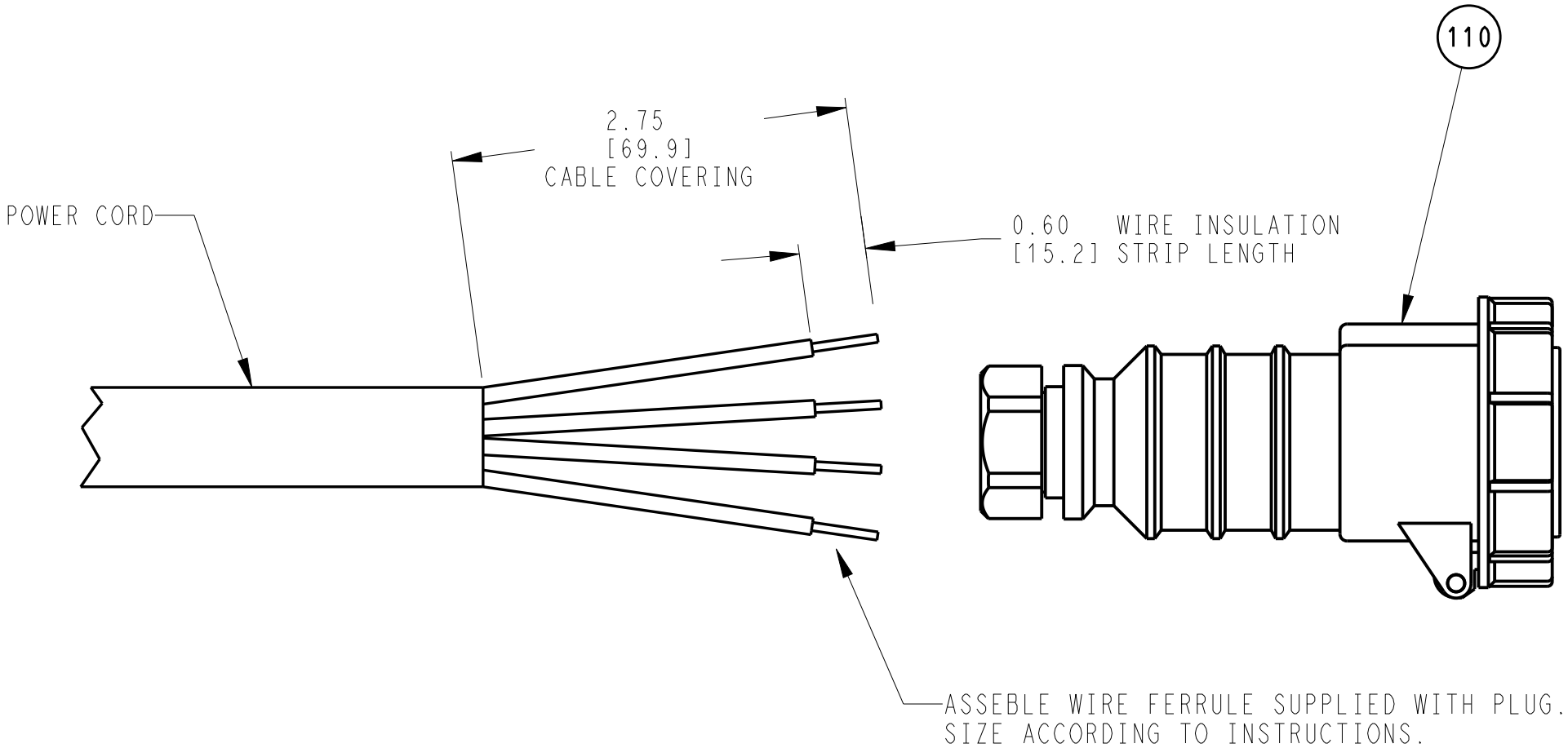
- ENSURE THAT THE STANDBY POWER INSTALLATION IS PERFORMED BY A LICENSED ELECTRICIAN WHO IS FAMILIAR WITH BOTH LOCAL AND NATIONAL ELECTRIC CODES AND REQUIREMENTS.
- EACH REFRIGERATION UNIT MUST BE PROTECTED BY AN INDIVIDUAL CIRCUIT BREAKER SIZED PER THE APPROPRIATE UNIT ELECTRICAL SPECIFICATION LISTED ABOVE.
- A CONTINUOUS EARTHING GROUND CONDUCTOR MUST BE PROVIDED AT THE PLUG AND THROUGH THE POWER CORD TO THE REFRIGERATION UNIT.
- CARRIER TRANSICOLD RECOMMENDS THAT CUSTOMERS ESTABLISH AN ASSURED EQUIPMENT GROUNDING CONDUCTOR PROGRAM PER THE NATIONAL ELECTRIC CODE (NEC). PER THE ASSURED EQUIPMENT GROUNDING CONDUCTOR PROGRAM, THE NEC CALLS FOR ALL CORDSETS TO BE VERIFIED FOR GROUND CONTINUITY AND CORRECT WIRING ON A 3 MONTH BASIS.
- A NEUTRAL CONDUCTOR **MUST NOT** BE CONNECTED TO THE REFRIGERATION UNITS. ALL CARRIER TRANSICOLD REFRIGERATION UNITS ARE BALANCED THREE PHASE SYSTEMS; THEREFORE, THE UNIT ONLY REQUIRES THREE PHASE WIRES AND A GROUND CONDUCTOR.
- STANDBY POWER CORDSETS BETWEEN THE CIRCUIT BREAKER AND THE REFRIGERATION UNIT **MUST** BE CONSTRUCTED FROM 10/4 SOOW CABLE. CARRIER RECOMMENDS A MINIMUM CABLE LENGTH OF 50 FEET TO LIMIT MAXIMUM FAULT CURRENTS AND PREVENT DAMAGE TO THE POWER CIRCUITS WITHIN THE UNIT.



SCALE 0.300

PARTIAL LOWER  
ROADSIDE VIEW  
STANDBY PLUG MOUNTING

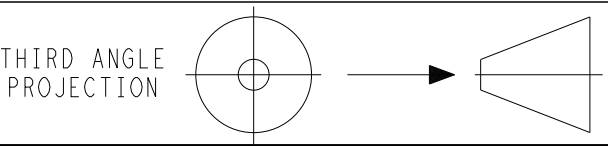
CUSTOMER CABLE AND PLUG ASSEMBLY



WARNING:

BE SURE POWER IS DIS-CONNECTED TO CUSTOMER CABLE.  
READ ENTIRE SUPPLIER DIRECTIONS SUPPLIED WITH  
PLUG BEFORE STARTING INSTALLATION.

-	INITIAL RELEASE.	14 MAR 2013	LT-KM			72N0560P12
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



IMPERIAL INCH FORMAT:  
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES WITH  
METRIC CONVERSIONS IN [MILLIMETERS]

TITLE  
INSTALLATION INSTRUCTIONS  
TRAILER (VECTOR 8100)

DRAWING NO.  
98-02591  
SHEET 9 OF

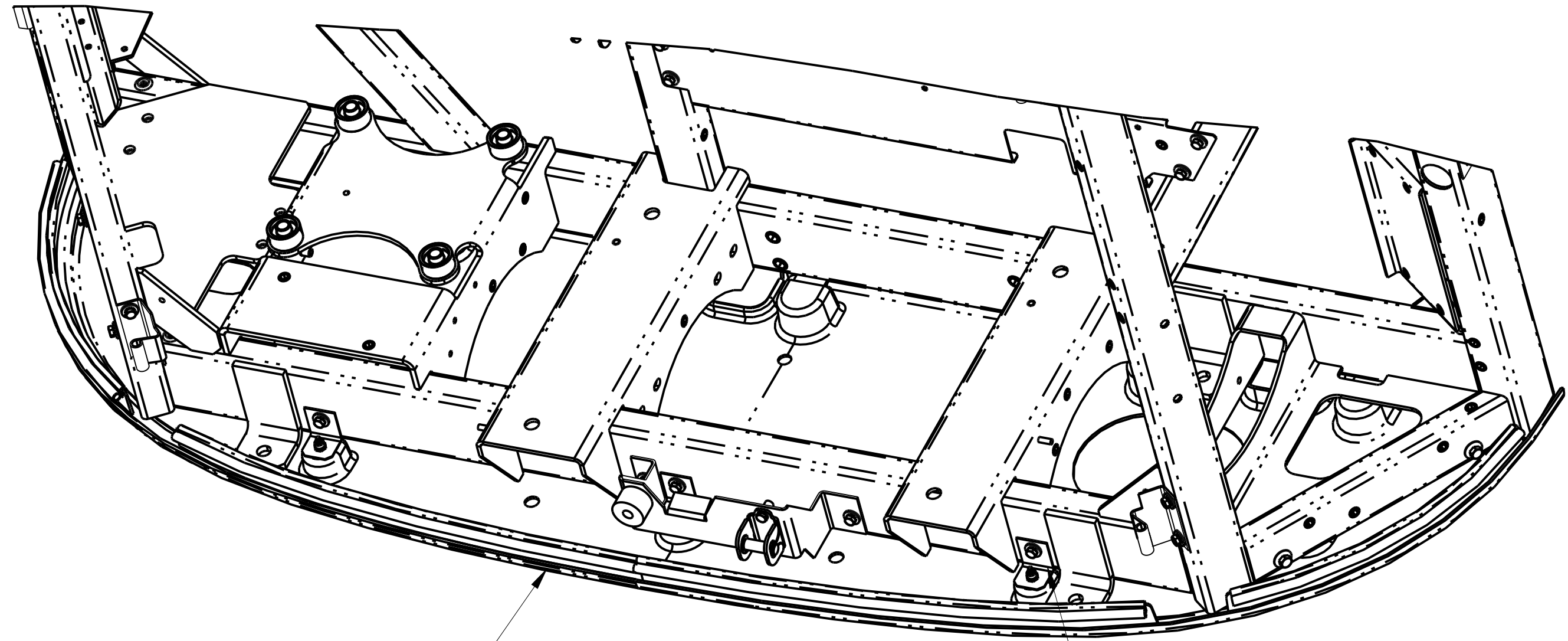
REV  
1

SUPERSEDES:

PART CLASSIFICATION: US EAR99 98

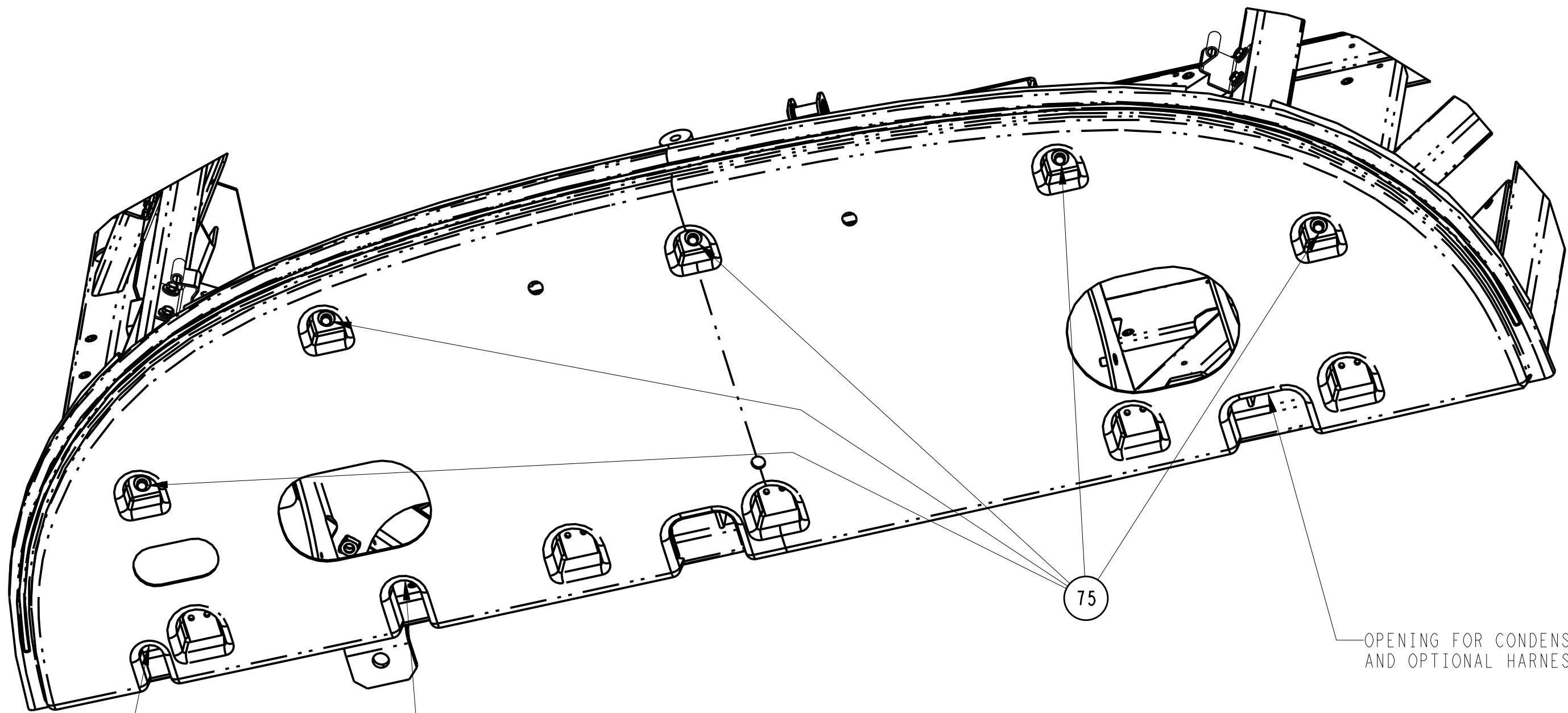
DRAWING CLASSIFICATION: US EAR99





BOTTOM PANEL

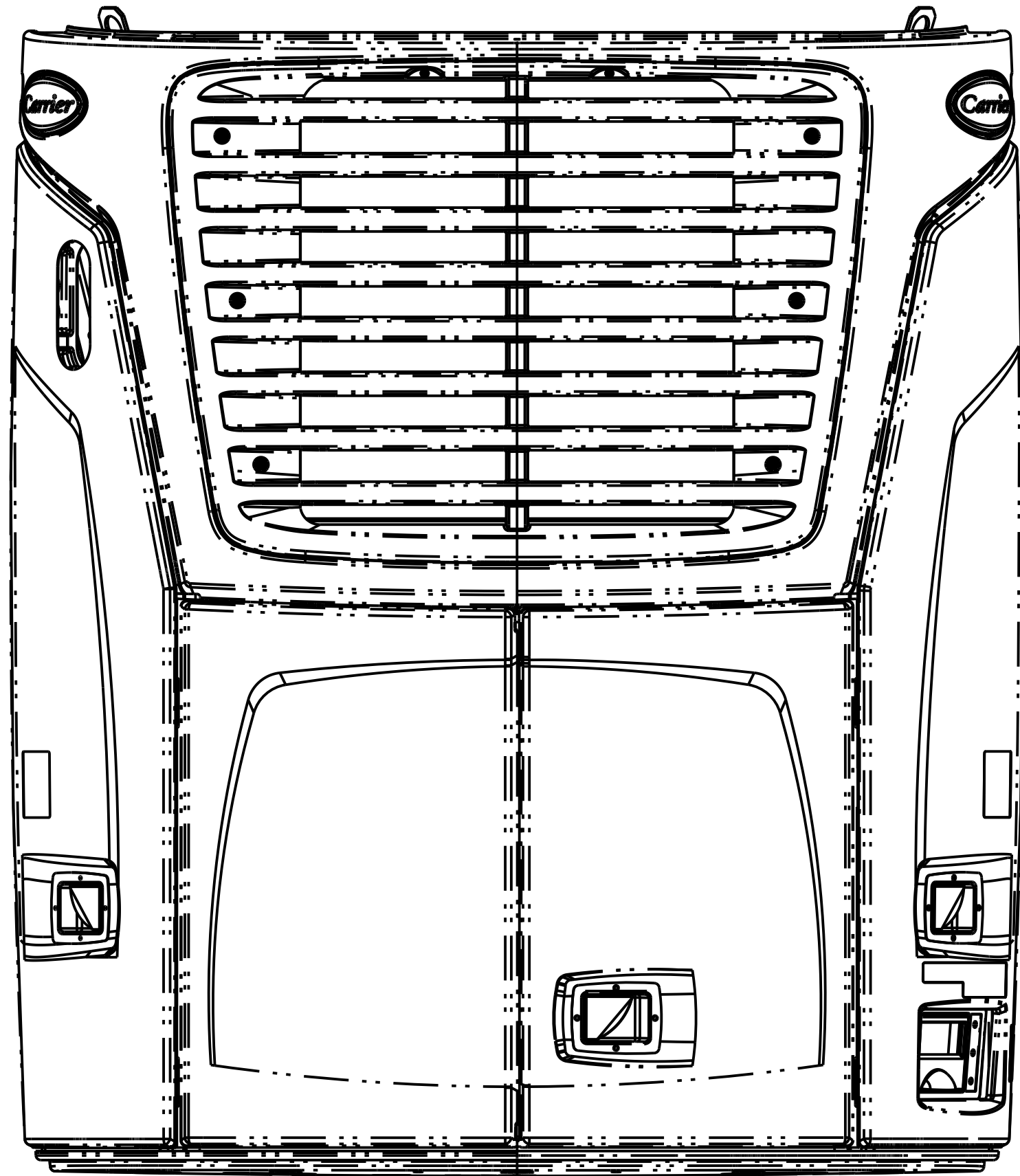
75 80  
3 3



OPENING FOR CONDENSATE  
DRAIN LINE

OPENING FOR LIFT GATE  
BATTERY CABLE OPTION

OPENING FOR CONDENSATE DRAIN LINE  
AND OPTIONAL HARNESS CONNECTORS.



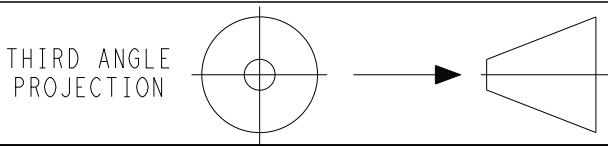
BOTTOM PANEL (REF)

## BOTTOM PANEL INSTALLATION

### NOTES:

- 1.0 INSTALL (3) MOUNTING ANGLES (ITEM #80), WITH RIVNUTED FLANGE DOWN, TO FRAME USING SUPPLIED SCREWS (ITEM #75). TORQUE SCREWS TO 96 IN-LBS, KEEPING THE BOTTOM OF THE ANGLES FLUSH AND PARALLEL TO THE BOTTOM OF THE FRAME.
- 2.0 SLIDE (5) OPENINGS IN THE BOTTOM PANEL OVER THE (5) REAR MOUNTING ANGLES ON THE FRAME AND SECURE BOTTOM PANEL TO OTHER (5) MOUNTING ANGLES USING SUPPLIED SCREWS (ITEM #75). TORQUE SCREWS SECURELY TO 96 IN-LBS.

B	NEW SHEET	04 APR 2017	ZMG			72N0217P17
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



IMPERIAL INCH FORMAT:  
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES WITH  
METRIC CONVERSIONS IN [MILLIMETERS]

TITLE  
INSTALLATION INSTRUCTIONS  
TRAILER (VECTOR 8100)

DRAWING NO.	REV
98-02591	B
SHEET 10 OF	

SUPERSEDES: \_\_\_\_\_

PART CLASSIFICATION: US EAR99