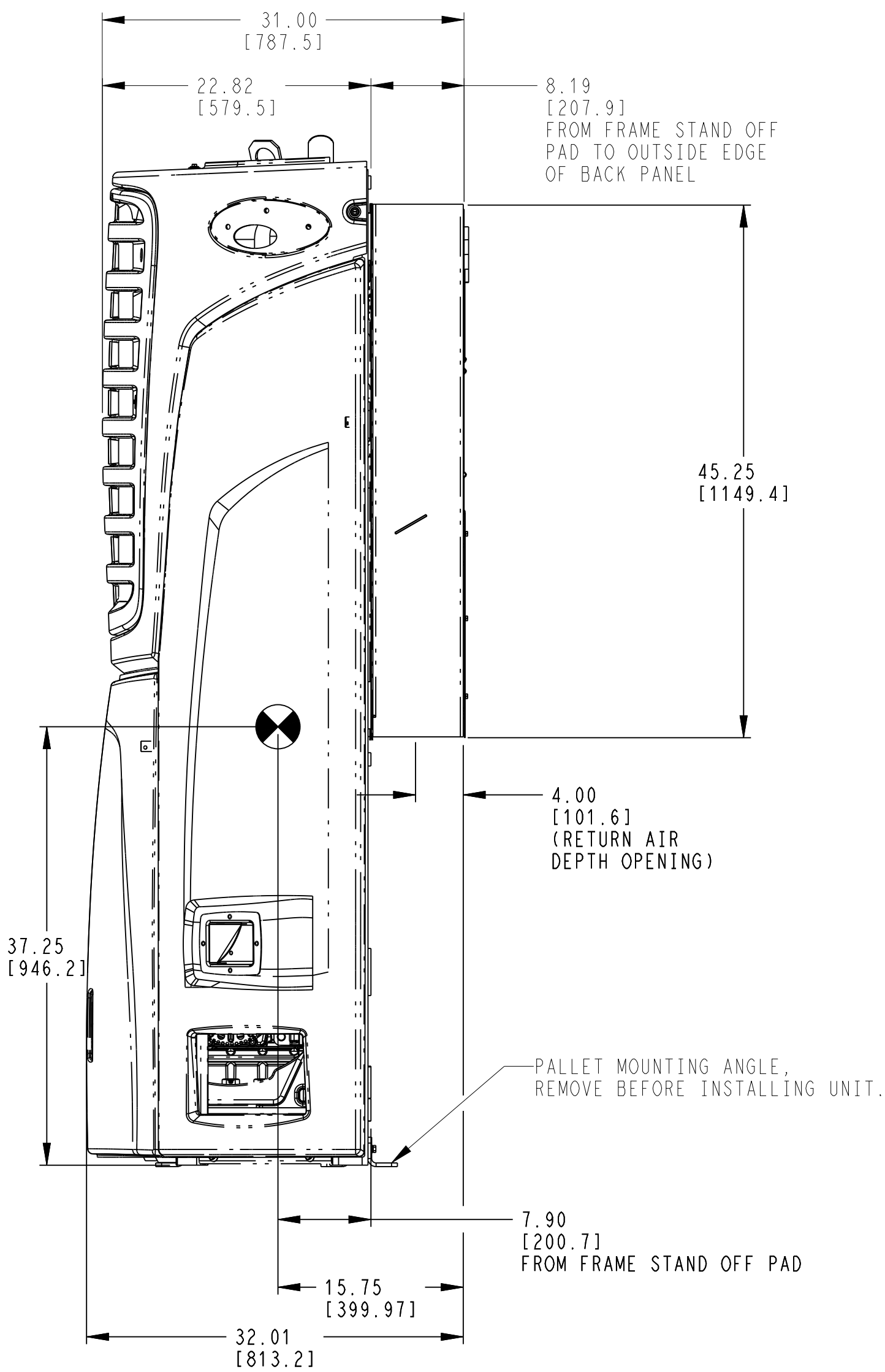
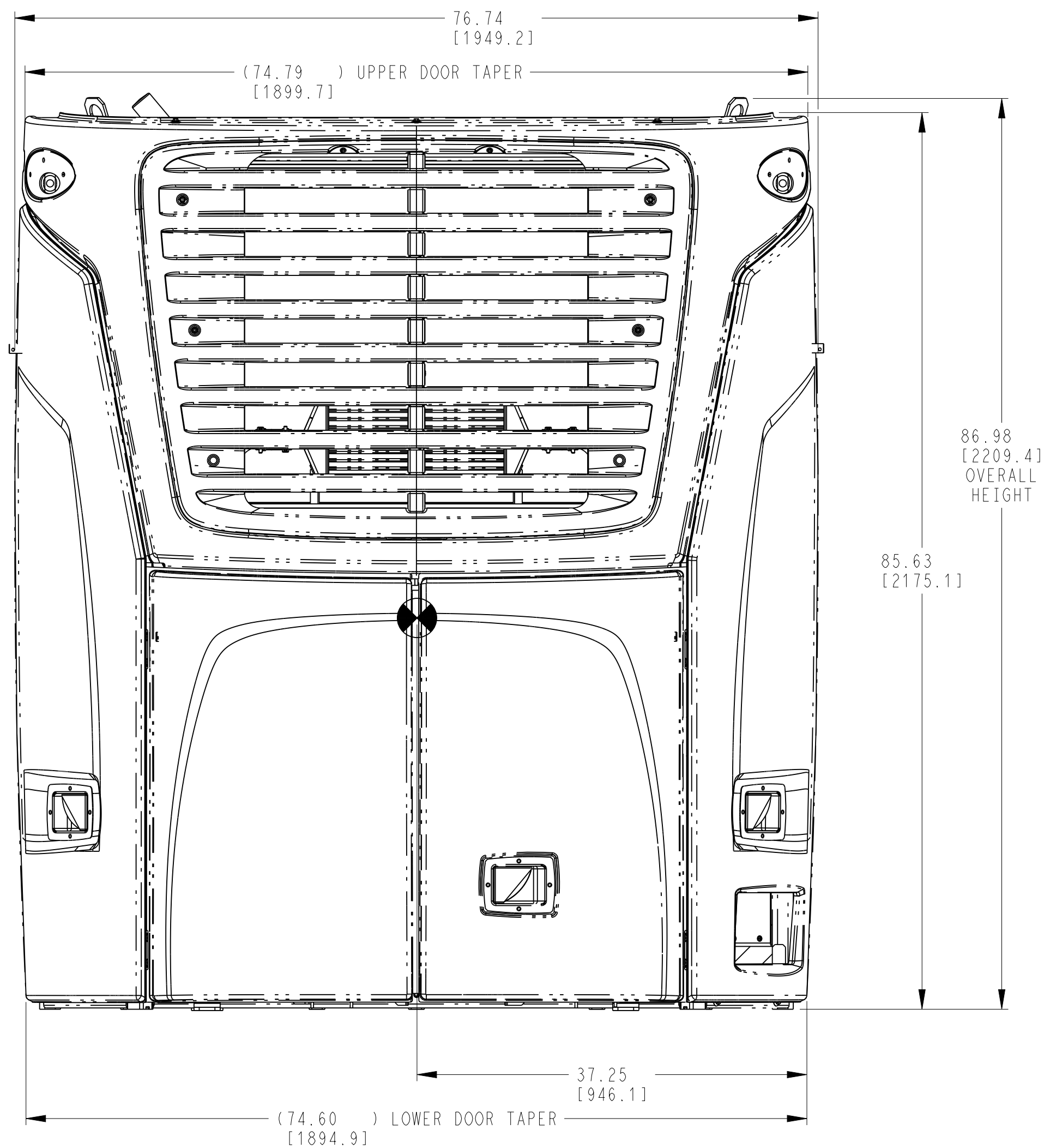


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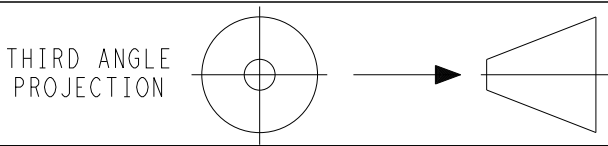
ALL UNIT VERSIONS



## UNIT DIMENSION INFORMATION

ALL UNIT VERSIONS

A	INITIAL RELEASE.	14 NOV 2014	LT-NM			72N0077P14
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



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TITLE	INSTALLATION INSTRUCTIONS TRAILERS: 2 & 3 COMPARTMENT MUTI-TEMP VECTOR NDKA
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DRAWING NO.	98-02633	REV	A
	SHEET 2 OF		

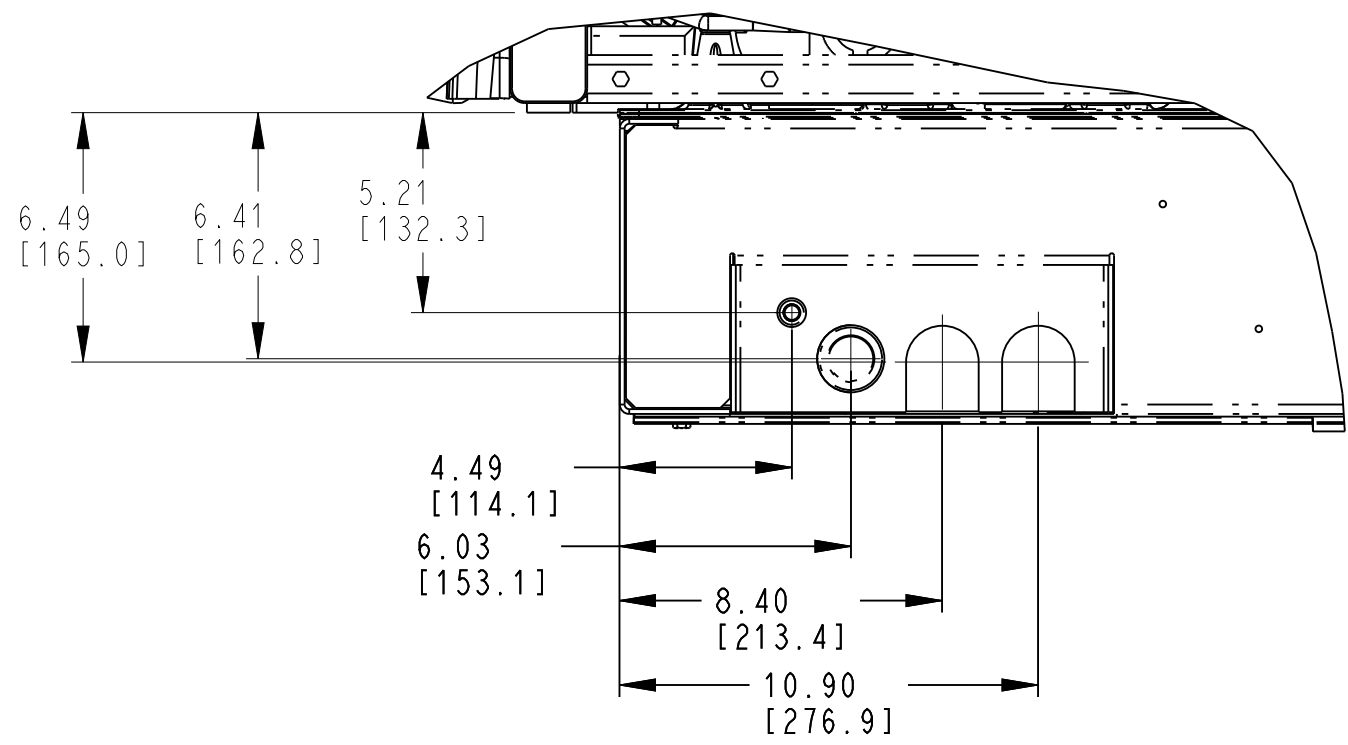
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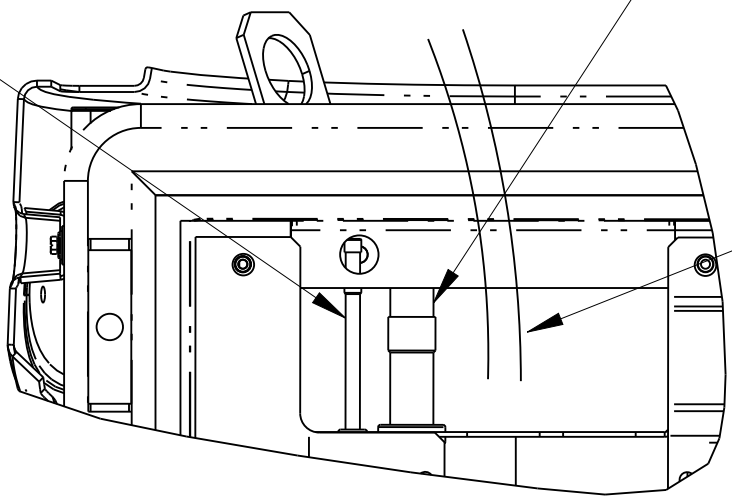
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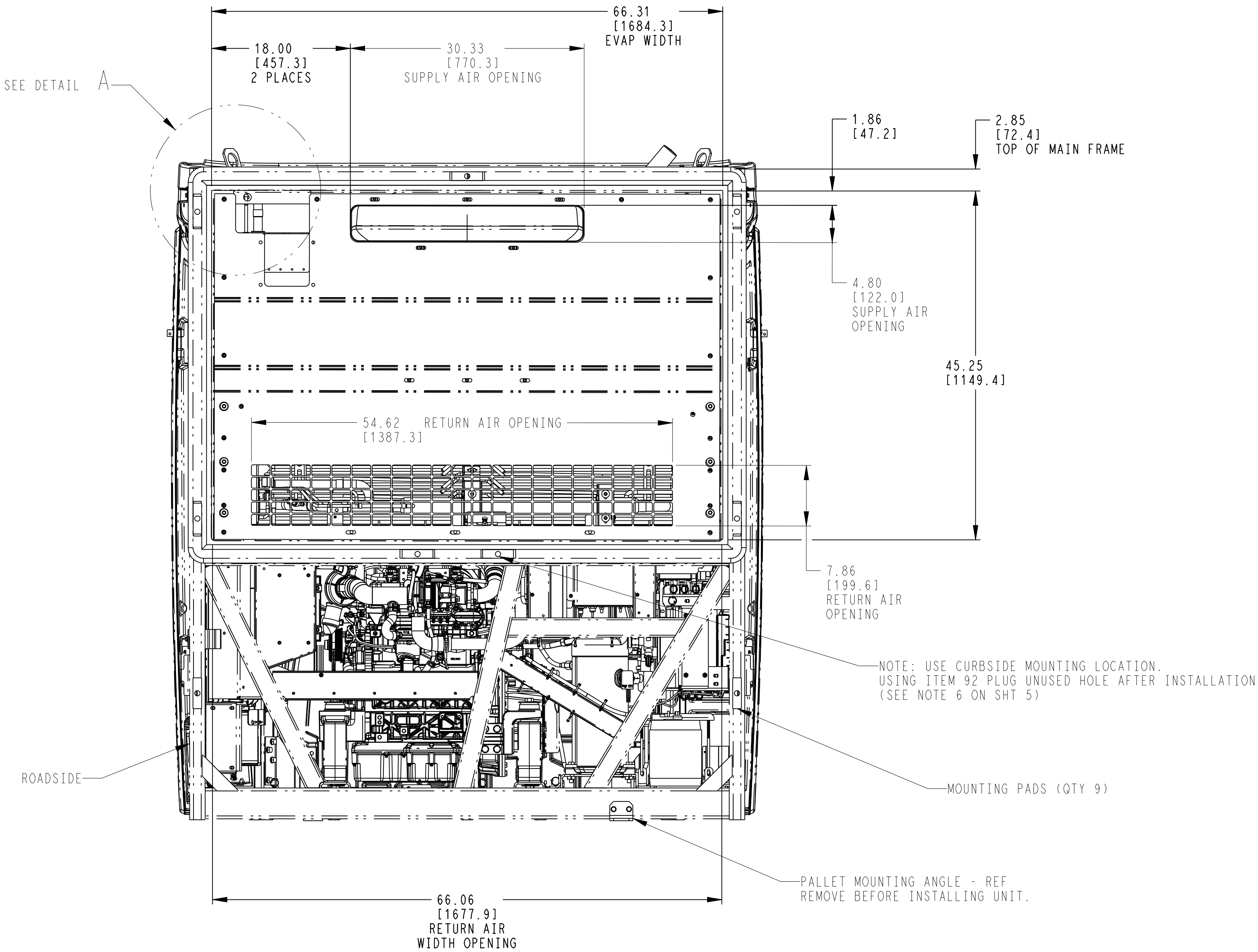


SCALE 0.200

REMOTE UNIT  
LIQUID CONNECTION  
0.381-0.387 I.D X 0.38 DP BELL  
[9.68-9.82] [9.5]

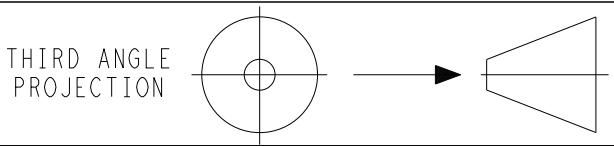


DETAIL A 2CPT  
SCALE 0.200



REAR VIEW : WITH STANDARD BACK PANELS

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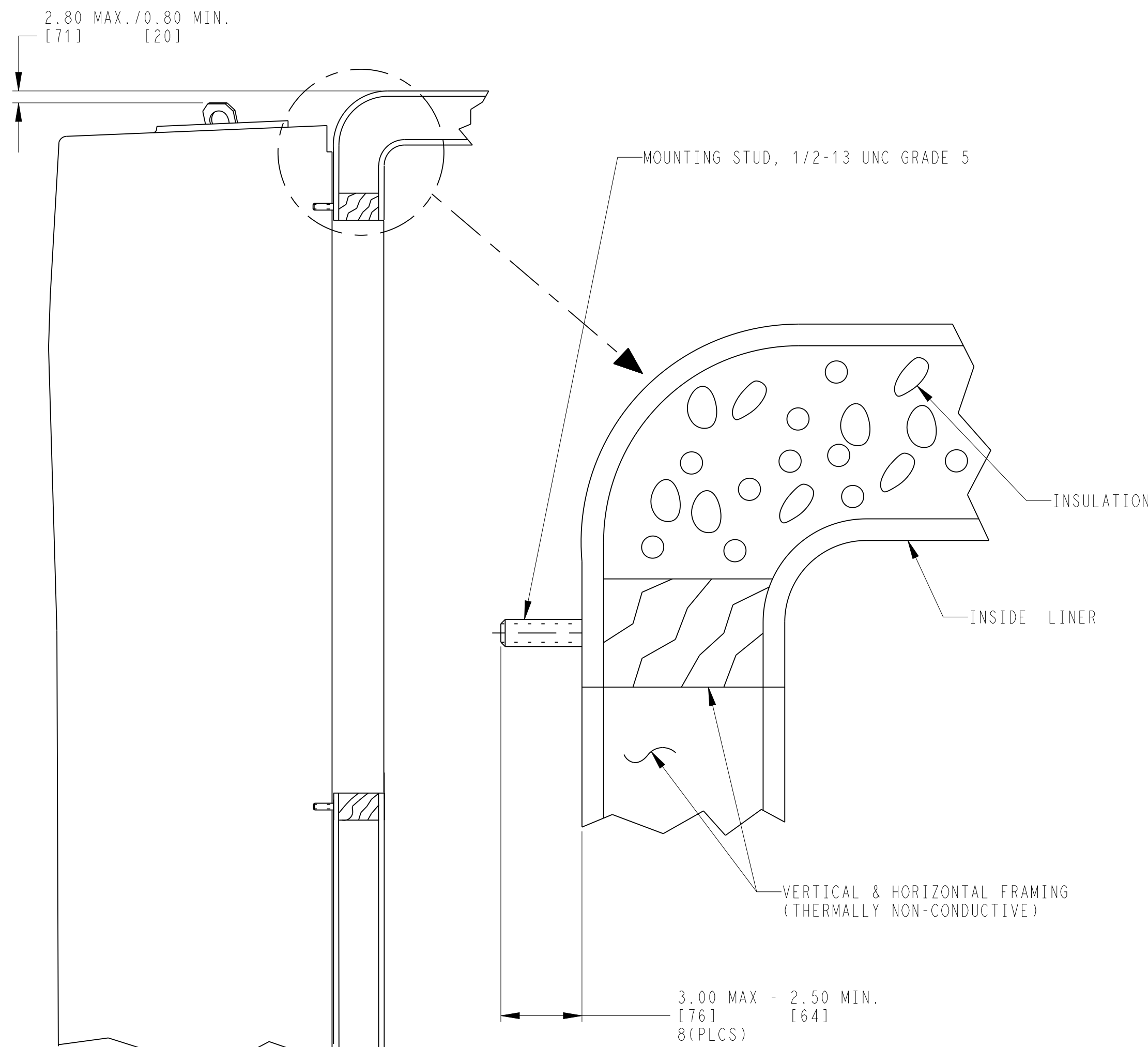
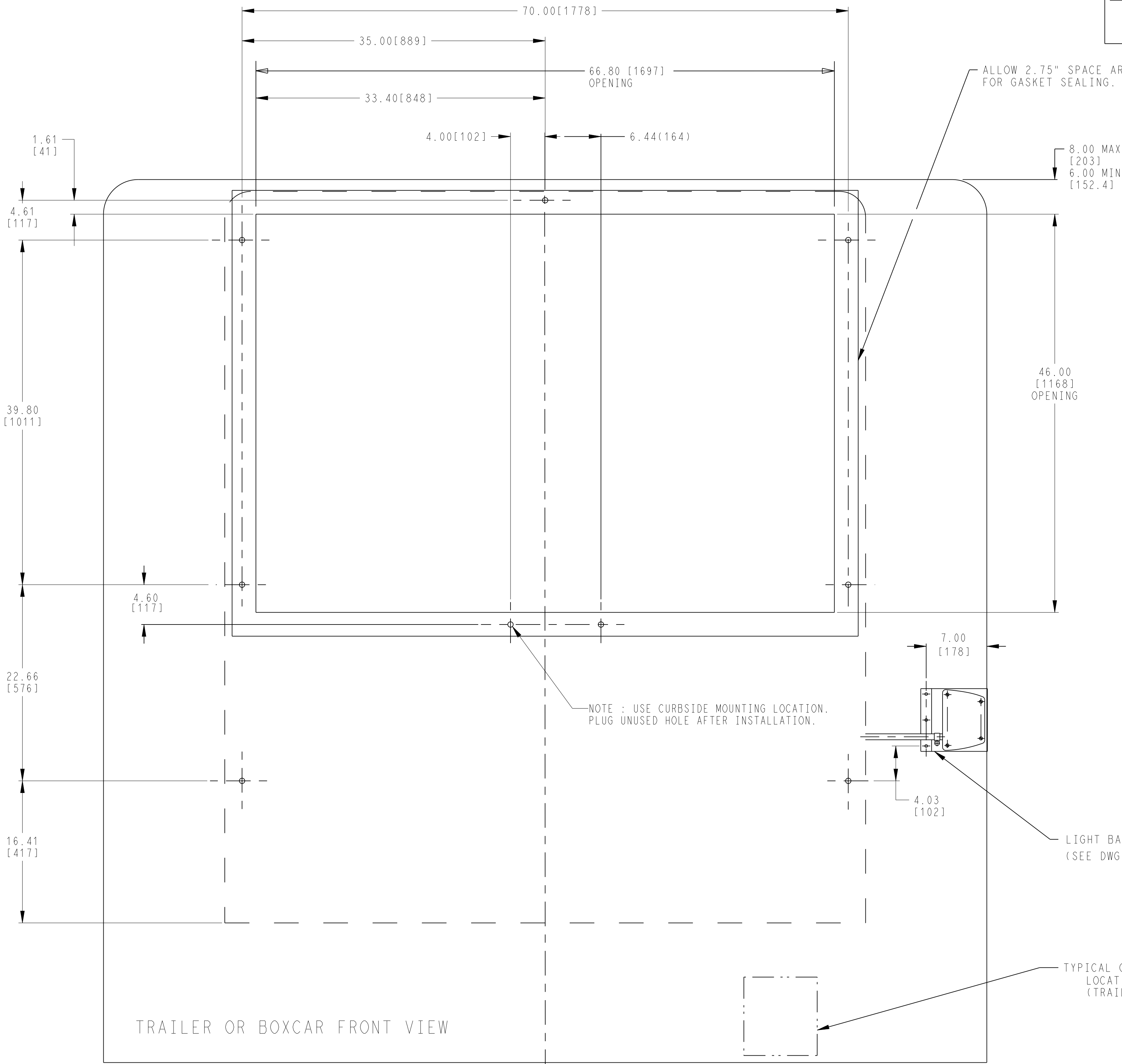
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CAUTION: UNIT MOUNTING SURFACES OF TRAILER OR BOXCAR THAT CONTACT THE UNIT MOUNTING  
PADS MUST BE UNI-PLANAR TO WITHIN 0.13[3] TO PREVENT DISTORTION  
OF UNIT AND/OR TRAILER/BOXCAR.

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.



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SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.					

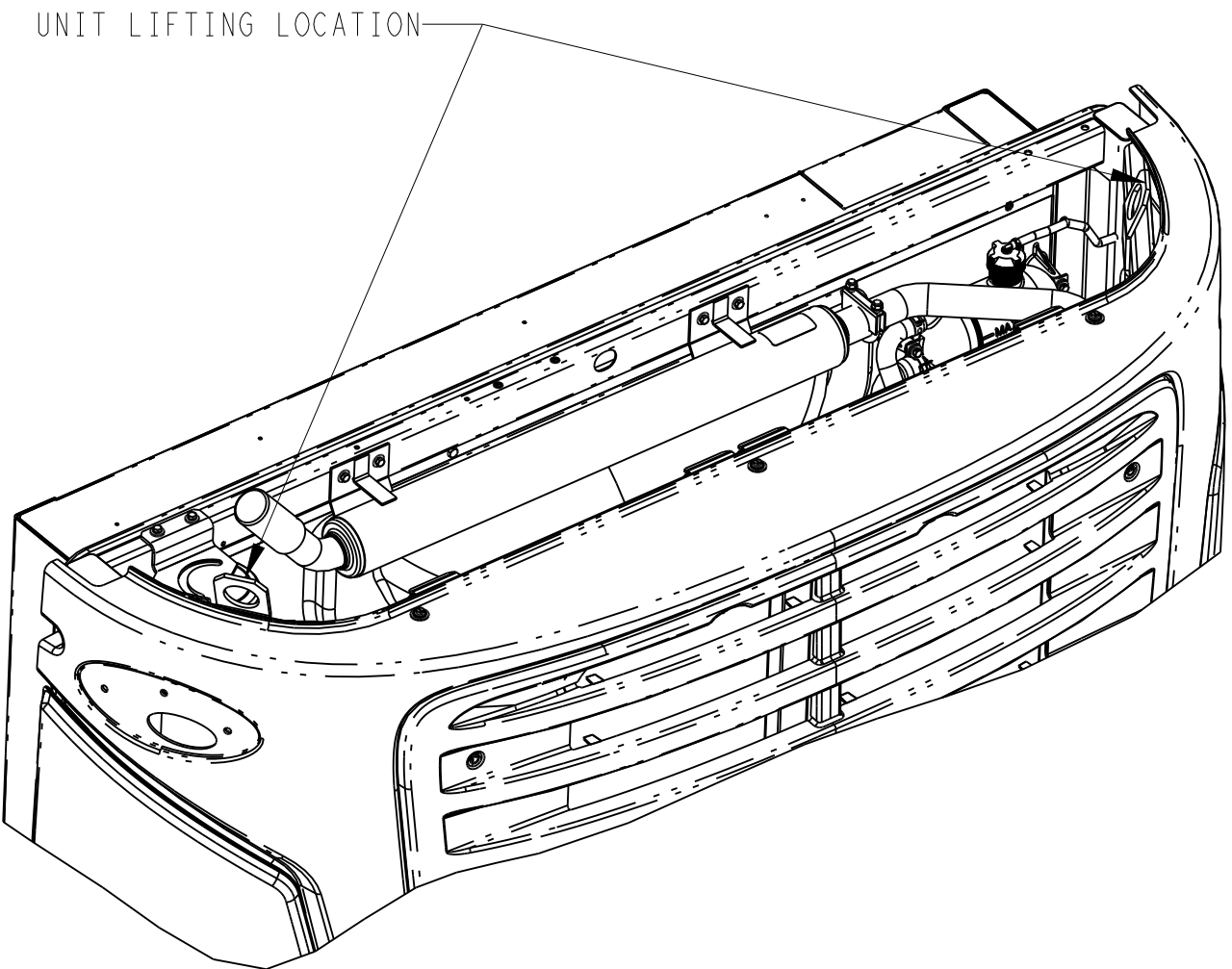
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NOTE: BULKHEAD, AIR CHUTE AND TRANSITION DUCT SHOWN ARE OPTIONAL  
FEATURES. FOR BEST AIR CIRCULATION AND PRODUCT PROTECTION  
CARRIER TRANSCOLD HIGHLY RECOMMENDS THE USE OF BULKHEADS  
AIR CHUTES AND TRANSITION DUCTS. CONTACT YOUR DEALER OR  
CARRIER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



PREPARE UNIT FOR INSTALLATION:

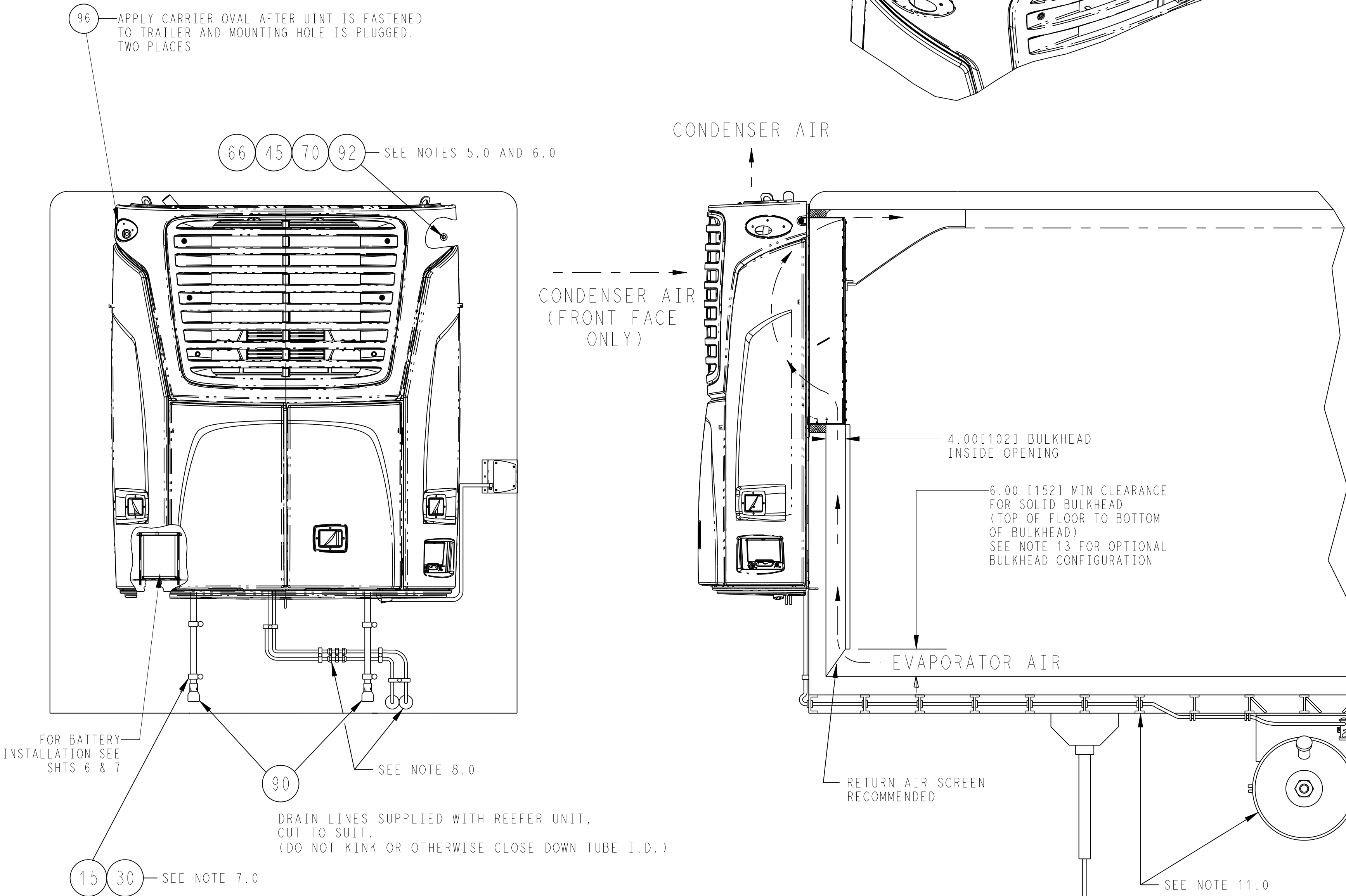
- 1.0 PREPARE THE BODY TO RECEIVE THE UNIT. DIMENSIONS FOR EVAPORATOR  
OPENING AND MOUNTING STUD LOCATIONS CAN BE FOUND ON SHEET 4 OF THIS DRAWING.
- 2.0 REMOVE WIRE TIES HOLDING DEFROST DRAIN HOSES, TUBE, AND FUEL LINES. PLACE  
LINES WHERE THEY WILL NOT BE CAUGHT BETWEEN THE UNIT FRAME AND THE  
MOUNTING SURFACE. REMOVE PALLET MOUNTING ANGLE ON BACK BOTTOM OF FRAME.
- 3.0 OPEN SIDE DOORS TO ALLOW ACCESS TO MOUNTING STUD LOCATIONS ON UNIT.
- 4.0 PREPARE THE UNIT FOR LIFTING:  
STANDING ON A LADDER OR WORK-STAND, HOOK LIFTING APPARATUS (LIFTING  
SPREADER BAR WITH SUFFICIENT CAPACITY TO SUPPORT UNIT AND BATTERY)  
THROUGH THE LIFTING EYES. LIFT POINT SHOULD BE CENTERED OVER THE UNIT.

UNIT INSTALLATION:

- 5.0 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. (NOTE: THE LOWER  
CENTER STUD MUST BE ACCESSED FROM THE FRONT OF THE UNIT.)  
SNUG THE NUTS, THEN EVENLY TIGHTEN ALL EIGHT  
TO 60 FT-LB/81.6 NM USING A TORQUE WRENCH. REMOVE LIFTING APPARATUS.
- 6.0 INSTALL BUTTON PLUGS (ITEM 92) IN UNIT FRAME WHERE MOUNTING STUDS  
ARE LOCATED AND ADDITIONAL UNUSED HOLE (SEE SHT.3).
- 7.0 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 5th-WHEEL PLATE ON TRAILER)  
AND INSTALL KAZOOS (ITEM 90) ON THE HOSES.
- 8.0 INSTRUCTIONS FOR FUEL LINE CONNECTION ARE SUPPLIED WITH THE FUEL  
TANK KIT. INSTRUCTIONS FOR LIGHT BAR INSTALLATION ARE INCLUDED WITH  
THE LIGHT BAR KIT.

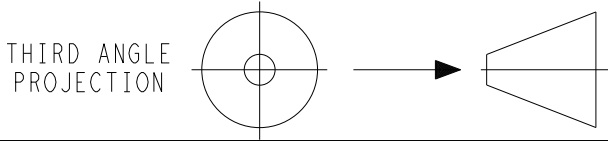
AFTER INSTALLATION

- 9.0 INSTALL BATTERY ACCORDING TO INSTRUCTIONS ON SHEETS 6 & 7. IF UNIT  
HAS BEEN SUPPLIED WITH BATTERY, CONNECT BATTERY CABLES ACCORDING  
TO THE INSTRUCTIONS ON SHEETS 6 & 7.
- 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 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 REGISTRATION  
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 SQ.FT. OF AIR PASSAGE. HOLE PATTERN  
OR OPEN AREA MUST BE RECESSED SO THAT CARGO LOADED AGAINST BULKHEAD  
WILL NOT OBSTRUCT AIR PASSAGE OPENINGS. PERFORATED BULKHEADS, THAT  
MEET THESE REQUIREMENTS, MAY BE INSTALLED TIGHT WITH FLOOR.



UNIT INSTALLATION

C	REVISED NOTES 10.0, 11.0 & 12.0.	05 APR 2017	ZMG			72N0217P17
A	INITIAL RELEASE.	17 NOV 2014	LT-NM			72N0077P14
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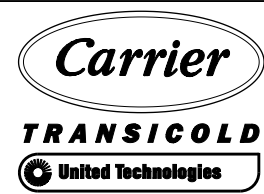
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TITLE  
INSTALLATION INSTRUCTIONS  
TRAILERS: 2 & 3 COMPARTMENT MUTI-TEMP VECTOR NDKA

DRAWING NO.  
98-02633  
SHEET 5 of  
REV  
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# BATTERY INSTALLATION INSTRUCTIONS

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

## UNITS SUPPLIED WITH BATTERY INSTALLED

- 1.0 CUT WIRE TIE(S) THAT HOLD BATTERY CABLES TO EACH OTHER.
- 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.

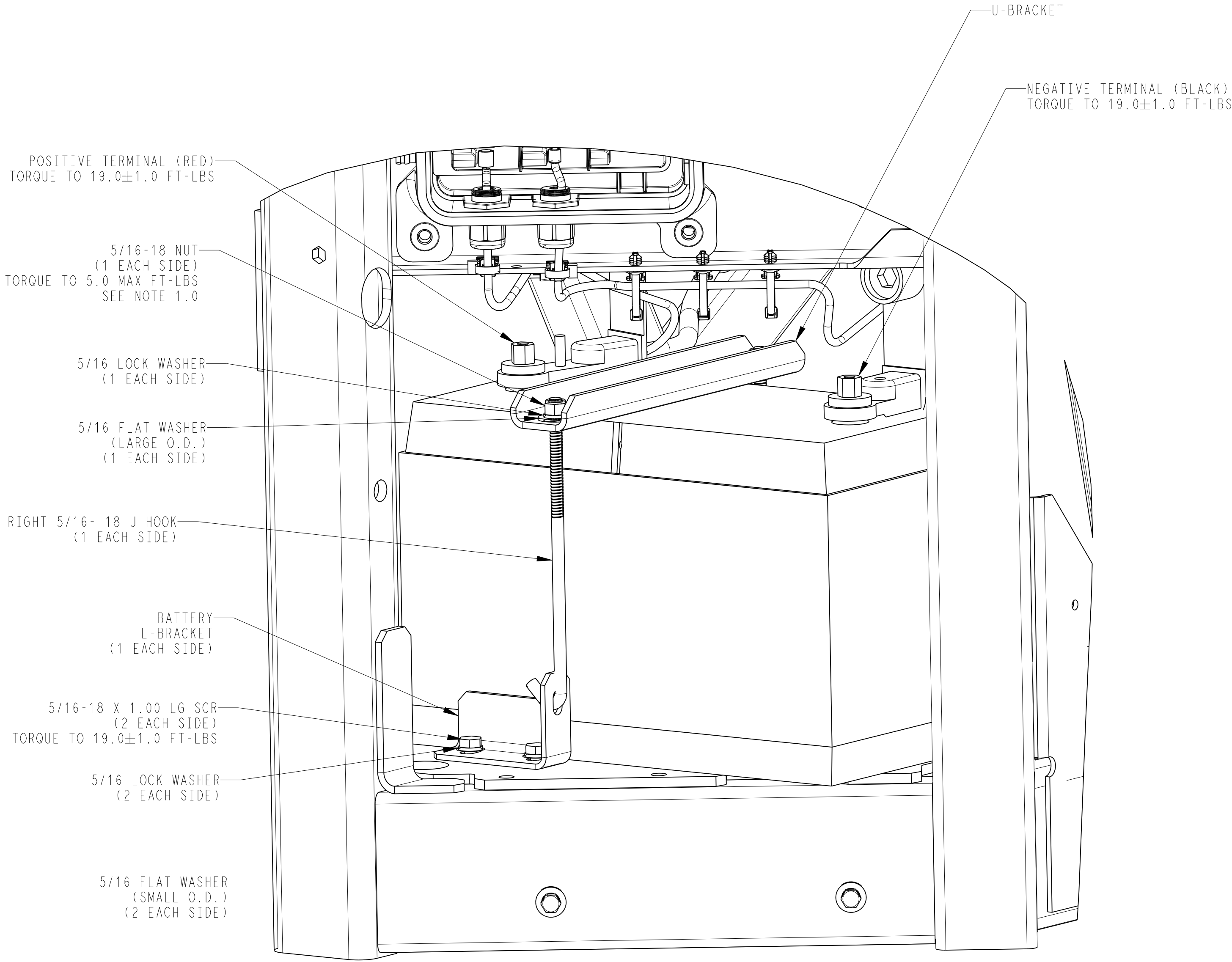
- 2.0 CUT WIRE TIE HOLDING THESE PARTS TO THE FRAME AND REMOVE PARTS. PLACE BATTERY IN TRAY WITH POSITIVE (+) TERMINAL TO THE REAR OF THE UNIT (AS SHOWN). CONNECT BATTERY CABLES (THE USE OF A CORROSION INHIBITOR ON THE TERMINALS IS RECOMMENDED); RED CABLE TO POSITIVE (+) TERMINAL, BLACK CABLE TO THE NEGATIVE (-) TERMINAL. CABLES SHOULD BE ROUTED TOWARD THE COMPRESSOR (AS SHOWN). TIGHTEN TERMINAL CONNECTORS SECURELY.
- 3.0 INSTALL L-BRACKETS AND J-HOOKS AND HOLD-DOWN CHANNEL USING NUTS, 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.

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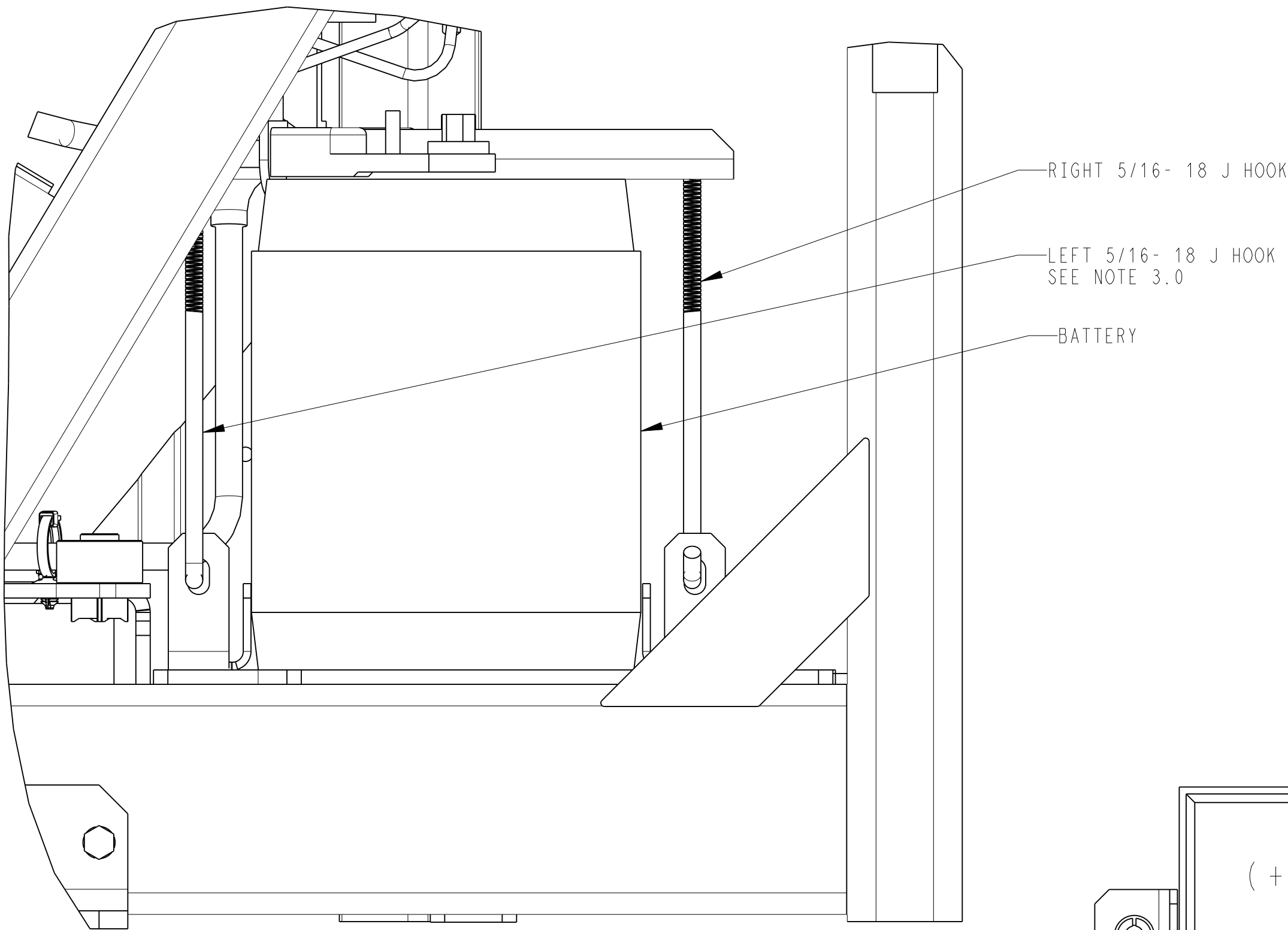
NOTE:

- 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.
- 3.0 WHEN INSTALLING LEFT J-HOOK INTO L-BRACKET ROTATE OPPOSITE OF RIGHT J-HOOK.

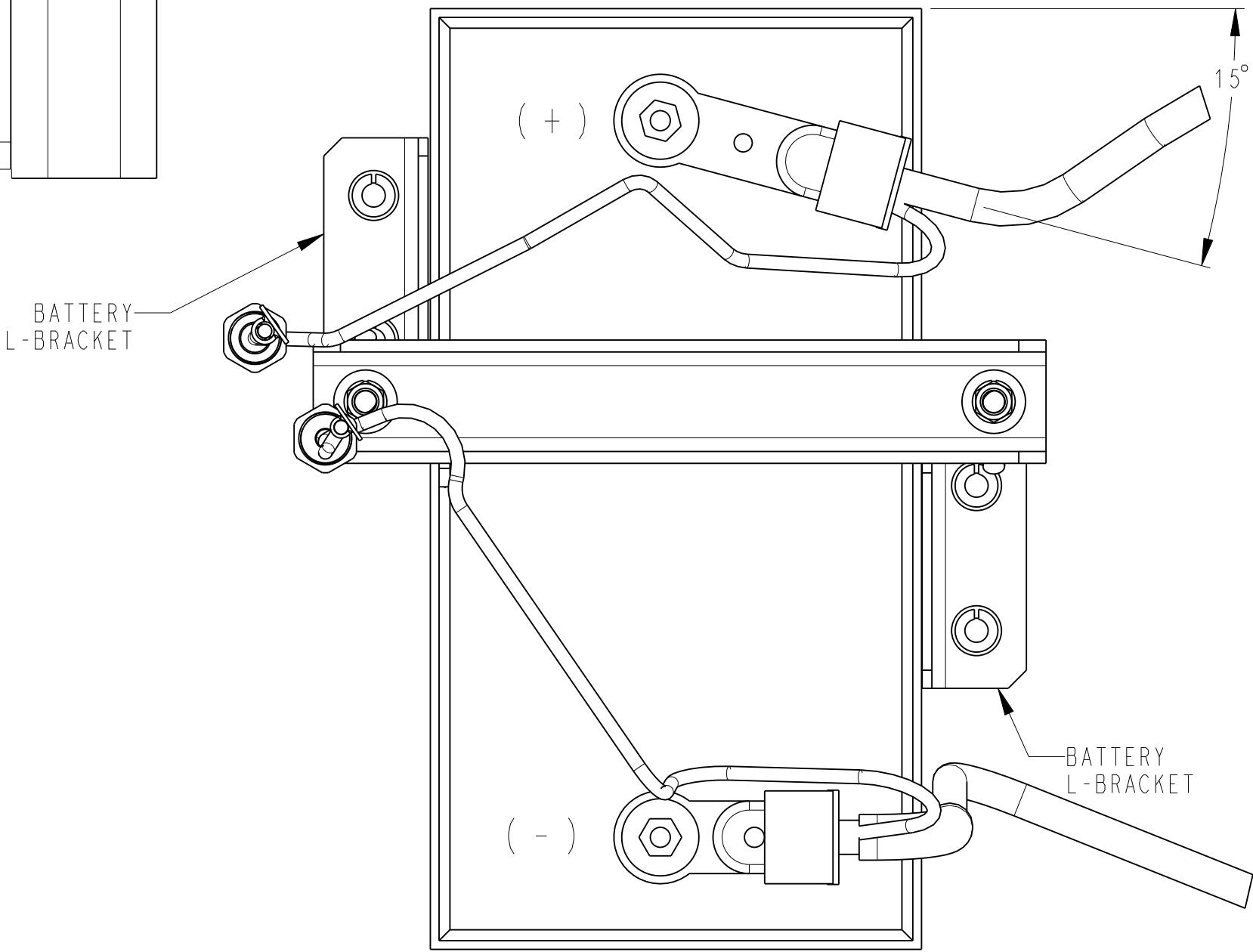


CURB SIDE VIEW

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



REAR VIEW

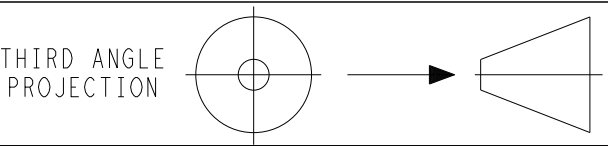


SECTION A-A  
BATTERY CABLE ARRANGEMENT.

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.

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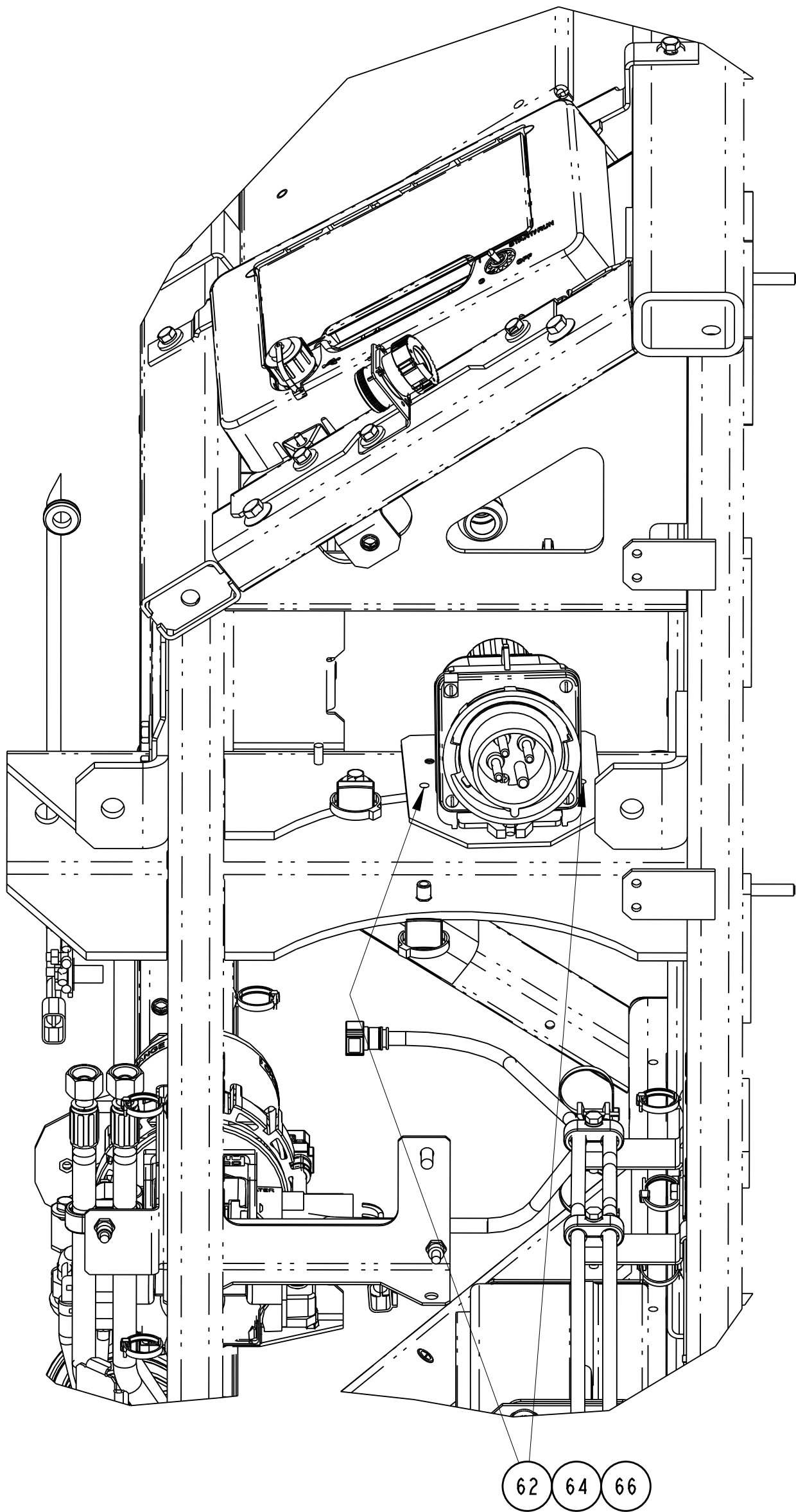


Electrical Specifications & Minimum Standby  
Infrastructure for  
Carrier Transicold Trailer units equipped with  
Standby

	Vector NDKA W/STBY
Operating Voltage	460V / 3ph / 60Hz
Full Load Amp Draw (FLA)	22 A
kVA	18.5
Locked Rotor Amp Draw (LRA)	90 A
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

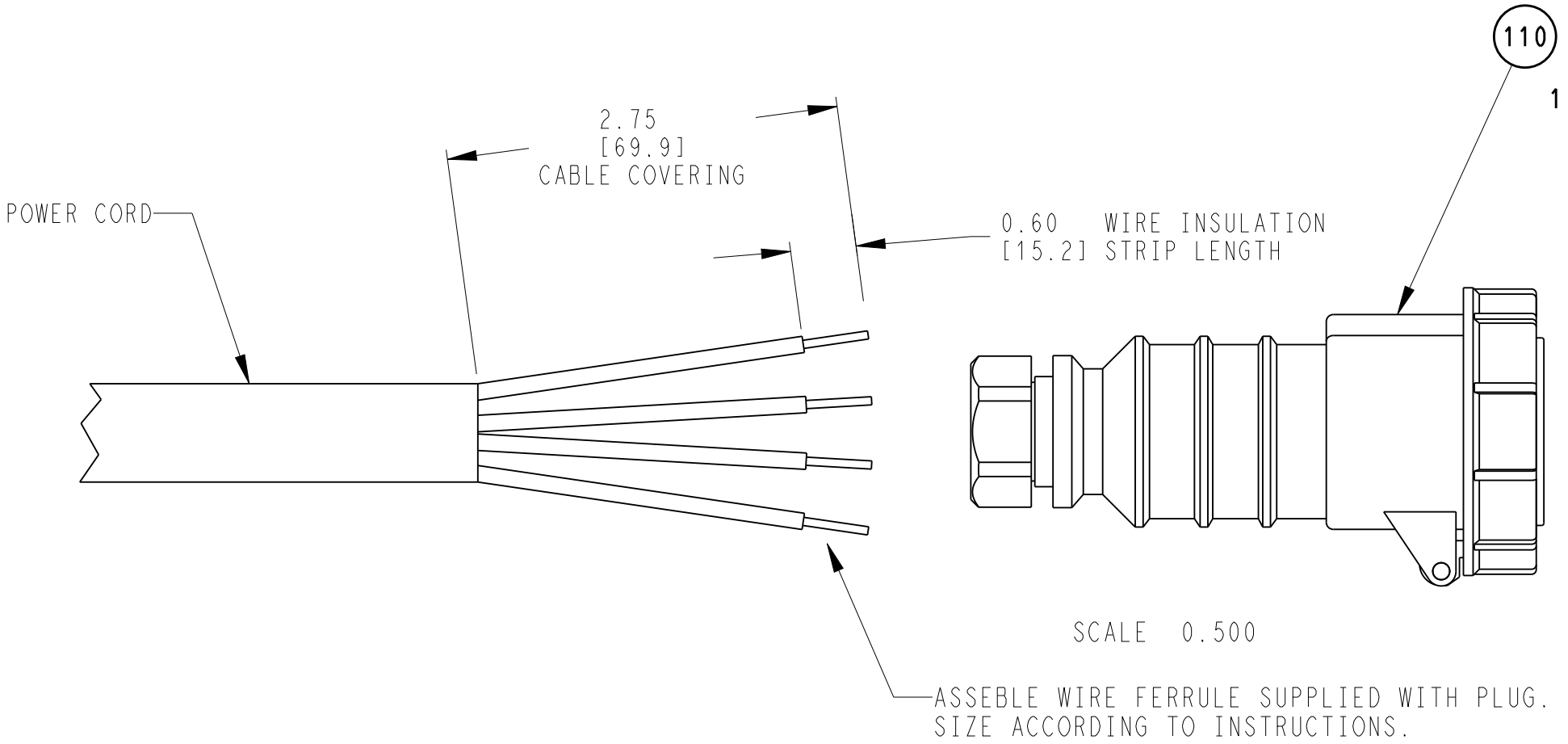
Minimum Requirements for Standby Infrastructure

- 1) Ensure that the standby power installation is performed by a licensed electrician who is familiar with both local and national electric codes and requirements.
- 2) Each refrigeration unit must be protected by an individual circuit breaker sized per the appropriate unit electrical specification listed above.
- 3) A continuous earthing ground conductor must be provided at the plug and through the power cord to the refrigeration unit.
- 4) 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.
- 5) 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.
- 6) 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.



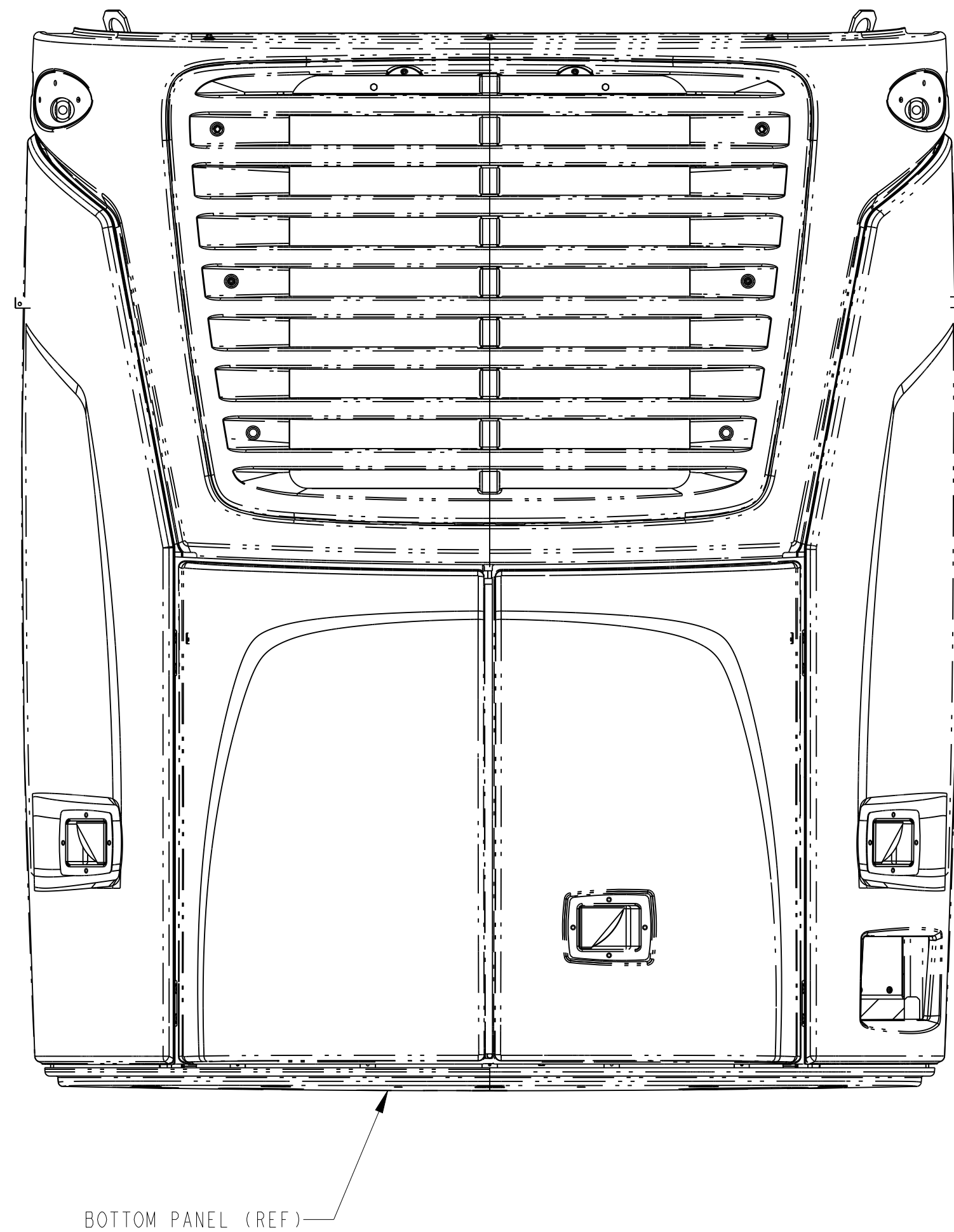
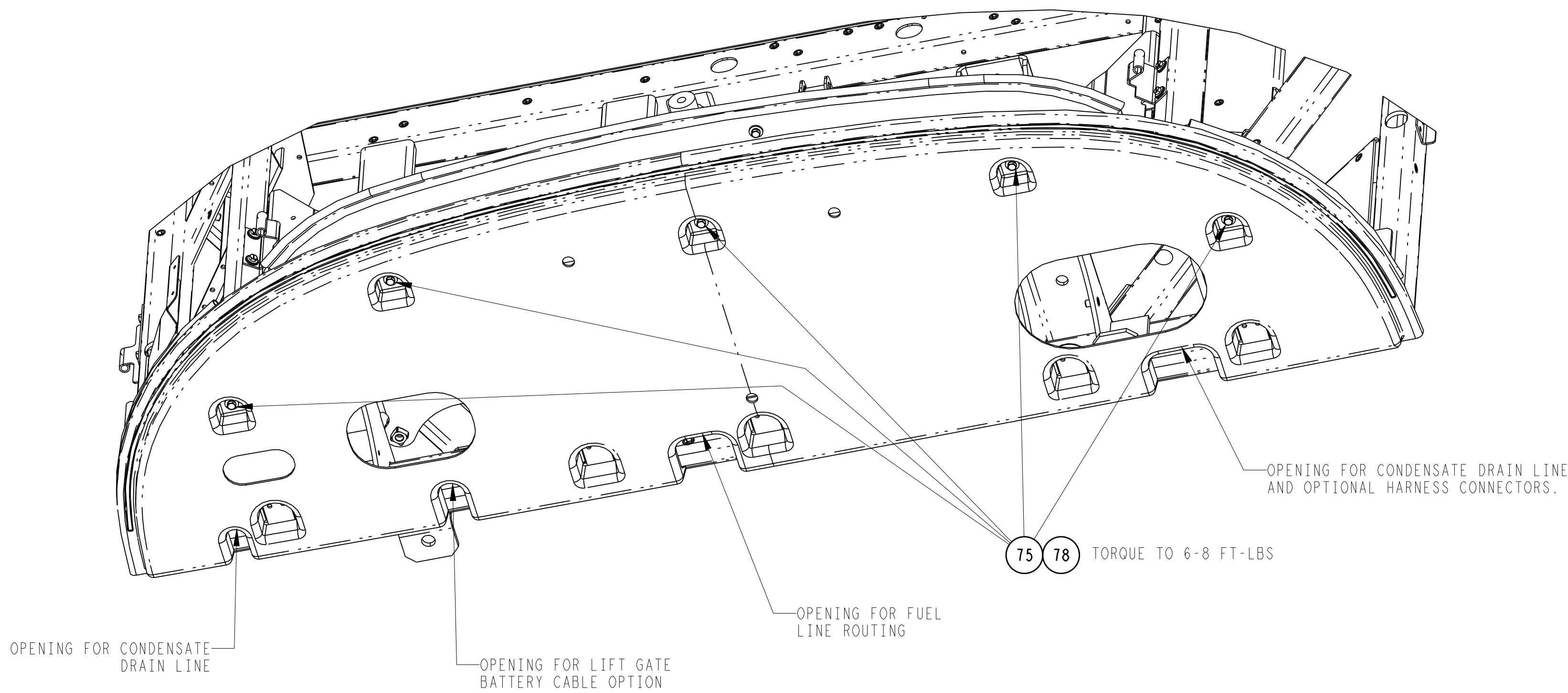
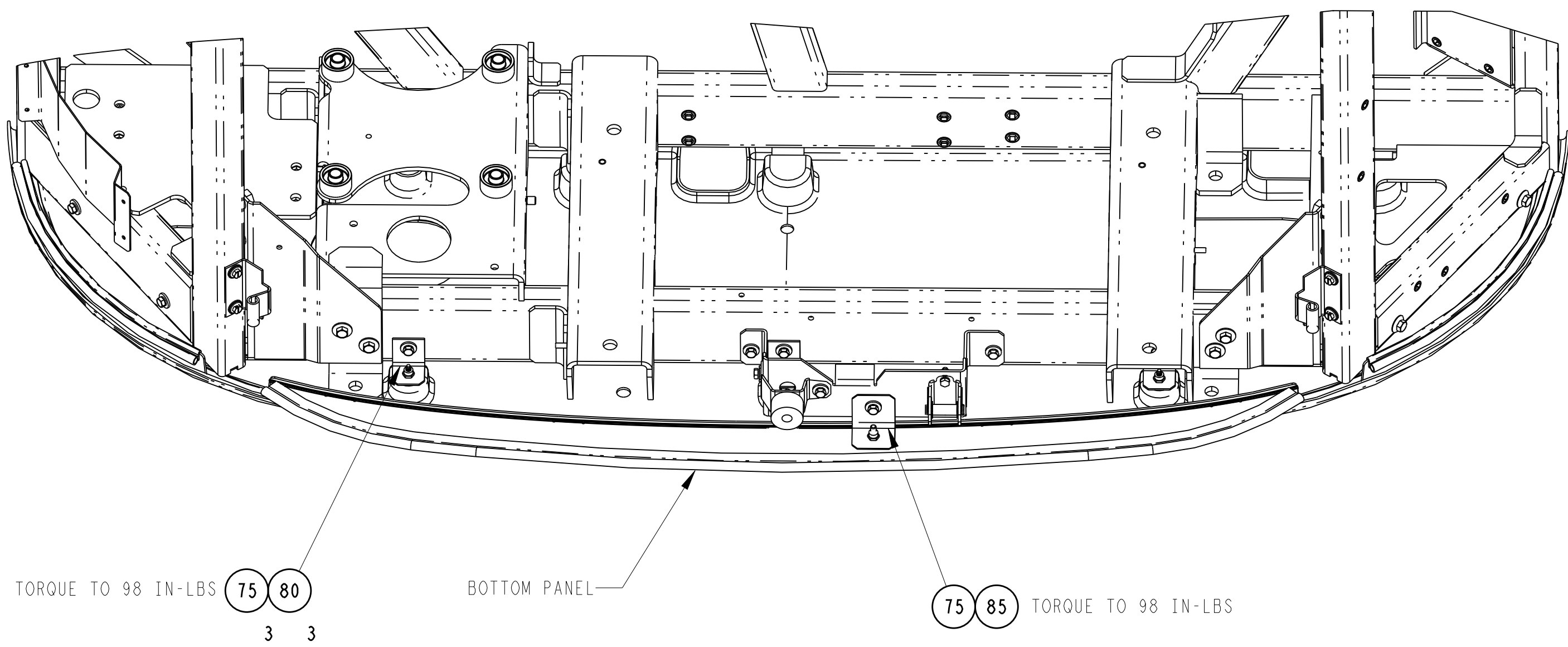
PARTIAL LOWER  
ROADSIDE VIEW  
STANDBY PLUG MOUNTING

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.



## BOTTOM PANEL INSTALLATION

- NOTES:
- 1.0 INSTALL (3) MOUNTING ANGLES (ITEM #80) AND (1) MOUNTING ANGLE (ITEM #85) WITH RIVNUTED FLANGE POINTING DOWN. SECURE TO FRAME USING SUPPLIED SCREWS (ITEM #75), KEEPING THE BOTTOM OF THE ANGLES FLUSH AND PARALLEL TO THE BOTTOM OF THE FRAME.
- 2.0 SLIDE (5) OPENINGS IN BOTTOM PANEL OVER (5) REAR MOUNTING ANGLES ON THE FRAME AND SECURE BOTTOM PANEL TO OTHER (6) MOUNTING ANGLES USING SUPPLIED SCREWS (ITEM #75) AND WASHERS (ITEM #78).

C	NEW SHEET.	05 APR 2017	ZMG			72N0217P17	THIRD ANGLE PROJECTION	IMPERIAL INCH FORMAT: UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES WITH METRIC CONVERSIONS IN [MILLIMETERS]	TITLE INSTALLATION INSTRUCTIONS TRAILERS: 2 & 3 COMPARTMENT MUTI-TEMP VECTOR NDKA	DRAWING NO. 98-02633 SHEET 9 OF	REV C
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