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23 August, 2021

Vern E. Carlson, Chair
North Haven Planning and Zoning Commission
Town of North Haven Land Use Office
Town Hall Annex Building
18 Linsley Street
North Haven, CT 06473

RE: 60 United Drive – Site Plan Modification
ACES EV School Bus and Charger

Dear Chairman Carlson:

On behalf of my client, Area Cooperative Educational Services ("ACES"), I am requesting that the North Haven Planning and Zoning Commission review and approve a modification to the existing site plan for ACES' fleet headquarters at 60 United Drive to allow the installation of an electric charger to support ACES' new full-size electric-powered school bus. The existing site plan, with the proposed additions indicated, is attached for your review.

As background, this project is being funded by ACES with the help of a special grant from the Connecticut Department of Energy and Environmental Protection. This will be the first fully operational full-size electric school bus in Connecticut, a significant milestone event for the State of Connecticut as well as the Town of North Haven. In addition, while the charger to be installed will initially run off ACES' existing electricity service, later this year that service will be upgraded to accommodate new solar panels on the roof of the existing building that will serve to re-charge the electric vehicle (those additions will be the subject of future reviews by the Town and are not included in this request).

ACES is pleased and proud to be leading the promotion of clean running school busses powered by renewable energy for our kids and our community. In that context, we hope the Commission will approve this installation and minor site plan modification.

Thank you for your consideration. I remain available for any questions you or the staff may have.

Sincerely,

Brendan Sharkey

enclosure
cc: Thomas Danehy, Ed.D., Executive Director
Timothy Howes, Deputy Executive Director
Rosemarie Armas, Transportation Director

Rhombus Energy Solutions

RES-DCVC60-480 EV DC FAST CHARGING POWER CONVERSION SYSTEM (PCS) DATASHEET

Medium- and Heavy-Duty Electric Vehicles (EVs) Require More From Their Chargers

Today's medium- and heavy-duty (M/HD) EVs can have storage capacities from 150kWh to over 600kWh. These vehicles need charging systems that have been designed to continuously supply high rates of clean, reliable DC power (60kW to 125kW) on a continuous basis. At Rhombus, we are experts in the design of high-power electrical systems with exceptional reliability and maintainability for the most demanding applications. We have deployed thousands of our units which are proudly **designed and manufactured in the USA**, with near-zero failure rates.

Solutions That Are Expert-Engineered for V2X-Capable EV Charging

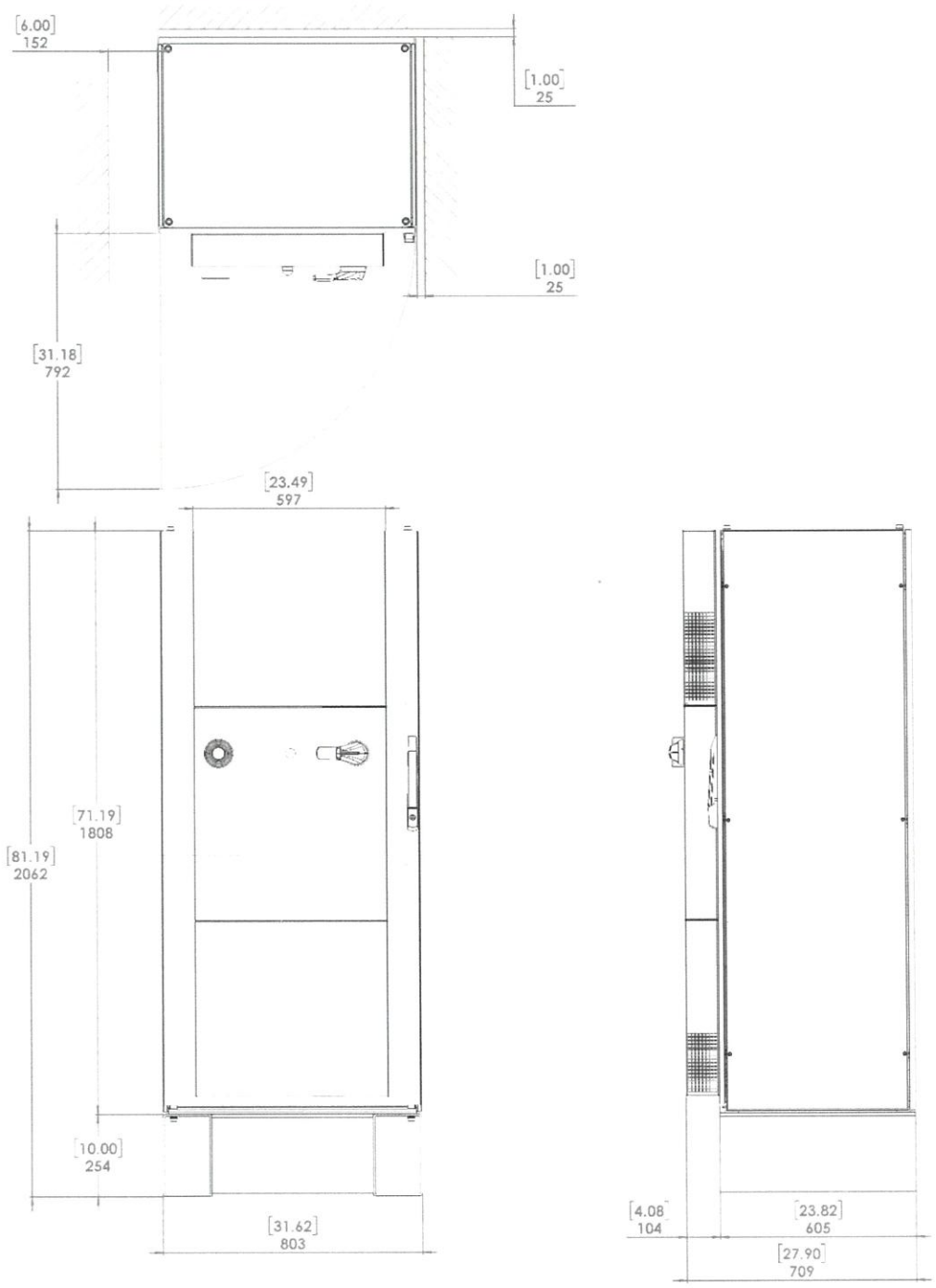
The utility grid's resilience is constantly being challenged, from both weather events and peak loads. Vehicle to grid (V2G) provides the ability to offset peak loads by offering/selling excess vehicle power back to the grid, reducing total energy costs. Vehicle to building (V2B) enables vehicle energy to power critical building circuits during power outages, improving overall site power resilience. Rhombus charging solutions are UL 1741-SA certified, simplifying fleet operator deployment of V2X-capable charging systems for the M/HD EV fleets.

And If Your Fleet Only Needs Unidirectional Capabilities, Rhombus Is Still Your Best Option

At Rhombus, we also apply our high-power expertise to the design of our unidirectional DC fast charging solutions for M/HD EV fleets such as school buses, public transit buses, delivery vehicles, refuse trucks, and drayage tractors. Our EV charging solutions are designed specifically for continuous operation at rated loads. These systems are also designed to support the unique needs of EV fleet operators, including the ability to remotely locate the small footprint EV charging dispenser up to 600 feet away from the charger PCS. This allows for optimal site placement in a high density vehicle yards when considering utility power feeds and high density parking.

Rev 030421

RES-DCVC60-480 PCS Dimensions



All specifications are configuration dependent and subject to change
VectorStat® is a registered trademark of Rhombus Energy Solutions, Inc

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