

November 7, 2018

Meg Alison Powden, Superintendent of Schools  
Two Rivers Supervisory Union  
609 VT Route 103 South  
Ludlow, VT 05149

Re: Chester-Andover Elementary School Electric Service Replacement  
DG 4180028

Dear Meg:

We have reviewed the bid proposals received on November 6, 2018 for the Chester Andover Elementary School underground electrical service replacement. The proposals include total prices for the project based on a distance of 450 ft and unit prices for conductors, which would be used to determine the final construction cost if the actual distance is more or less than 450 ft.

Bids were received from HB Energy Solutions and Watts-Up Electric, as summarized below. Copies of the proposals are attached.

Bidder	Bid Price	Unit Price for Conductors	Notes
HB Energy Solutions	\$47,880	\$72.16/ft	No exceptions
Watts Up Electric	\$29,480	\$45.60/ft	Completion 11/30

The bid request stated the requirement to complete the work by the week of November 12, 2018. Watts-Up Electric stated on their proposal that the work will be completed by November 30, 2018. After receiving the proposals, we asked HB Energy Solutions if their price would change based on a November 30, 2018 completion date. They responded that there would not be a change unless material prices changed.

Watts-Up Electric also provided alternative pricing for different materials of construction. The suggested alternative of aluminum cable is not typical for this application and is not included in the HB Energy Solutions proposal, therefore this alternative is not considered in the bid comparison.

These bids have been reviewed by electrical engineer, Sadeqh Radvar, PE. Sadeqh's comments are below:

“Watts-up price for the same work (using copper not aluminum) is about \$18K less than HB so, it is clear that he should be doing the work. The down side is that now you got two ECs on the same project. As long as they both understood they need to be team players then it should be fine.”

If you have any questions, please contact our office.

Sincerely,  
DUFRESNE GROUP

A handwritten signature in blue ink that reads "Naomi R. Johnson". The signature is stylized and cursive.

Naomi R. Johnson, P.E.  
President

Enclosures



## HB ENERGY SOLUTIONS

### PROPOSAL

Chester Andover Elementary School  
72 South Main St  
Chester Vt. 05143

November 6, 2018

#### **We propose to:**

1. Install a new 600 amp electrical service based on 450 ft. Provide and install 8-350MCM copper conductors for a 3 phase parallel service installed in a 2- 4" underground PVC conduit. (Installed by other). Provide and install 4" IMC conduit and associated fitting to complete the conduit systems on both ends. Complete the conduit system at GMP utility pole. Complete the conduit system to the service disconnect located in the utility room. Proposal is based on 450' per the request for bids submitted by the Dufresne Group. Verified distance of conductor length longer than 450', shall be adjusted for 8 conductors as one set to be \$72.16/ft.
2. Review basic operation and maintenance with customer.

We propose hereby to furnish material and labor – complete in accordance with above specifications, for the sum of:

Forty Seven Thousand Eight Hundred Eighty Dollars

**\$47,880.00**

Payment to be made by cash or check as follows: One half (\$23,940.00) due upon acceptance of proposal, balance due upon completion.

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the proposal price. All agreements are contingent upon strikes, accidents or delays beyond our control. Proposal expires in 30 days.

Note: This proposal void if not accepted within 30 days.

*Doug Perry*

Doug Perry

**Acceptance of proposal** – The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Date: \_\_\_\_\_ Signature: \_\_\_\_\_

**Proposal #DPE-1318**

132 Bridge Street • P.O. Box 945 • Springfield, Vermont 05156 • 802-885-2300 • Fax: 802-885-4040

www.hbenergy.com

Watts Up Electric  
Ascutney, Vt. 05030  
802-674-5561  
802 291 0587 cell

To: DH  
From John Arrison  
Date: 11/6/18  
Re: CAES service

Thank you for the requested proposal for the service ar CAES

Based on 450' including pole riser conductors:

\$29,480.00 using copper XHHW  
\$15,325.00 using aluminum XHHW

Work included:

pull new conductor in existing conduit. We are depending on clean conduits. If there are obstructions that need to be cleared ie mud, gravel, excessive water. hour rate to correct is \$85.

Furnish and install rigid slip joints (4) at both ends, not called out.

core drill into boiler room and install conduit to service disconnect max 5' inside.

Conduits installed by others need to be stubbed up at the appropriate location on both ends.

Deduct \$660.00if PVC sch 80 is used at the pole with pvc slip joints. Steel should be used at the boiler rm to prevent physical damage. I am not even sure GMP will allow steel on their poles.

Price per foot for variation from 450' of wire is \$45.60 per linear foot for copper and \$12.96 per linear foot for aluminum. this price is for the pair of parallel runs.

Any utility fees paid by owner.

Work will be completed by November 30th

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John Arrison, President