



CIVIL ENGINEERING ASSOCIATES, INC.

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May 9, 2016

Mr. Craig Heindel, Ferrisburgh VGL Committee
3279 Route 7
Ferrisburgh, VT 05456

**Re: Anbaric Vermont Green Line Electrical Transmission Project Review
Engineering Services Proposal**

Dear Craig:

Thank you for considering Civil Engineering Associates in assisting the Town of Ferrisburgh in reviewing the proposed installation of the Anbaric VGL Project subsurface power lines within the Town's rights-of-ways. We have worked with the Town on a number of road projects in the past and look forward to providing input on the locations and means and methods proposed by the applicant.

We would envision the following scope of work to be employed during the initial phase of review.

Scope of Work

Civil Engineering Associates, Inc. (CEA) will provide the following scope of services in accordance with the technical review of the proposed transmission line located along Sand Road, Little Chicago Road, Botsford Road and Tupper Crossing:

1. Review the proposed vertical and horizontal alignment of the power line to identify any potential conflicts as they relate to:
 - a. Normal maintenance of the components within the rights-of-way including the road bed, ditches and enclosed drainage systems.
 - b. Future improvements associated with culvert replacement projects and conflicts with corrective vertical alignment of the culverts to better

- conform with State of Vermont guidelines for culvert installations or upsizing to conform with FEMA guidance practices.
- c. Ability of other utility companies to provide services to the Town's residents when operating within the Town's rights-of-ways including.
 - i. Water main and water service installations of the Ferrisburgh Fire District #1, Vergennes-Panton Water District, Walker Road Association, and any other public or private water systems in the vicinity.
 - ii. Telecommunications/Cable installations and required separation distances
 2. If the applicant's existing condition information is not sufficient to readily reconcile these issues, then CEA will prepare base line mapping showing the topographic conditions as extracted from the recently released Addison County LIDAR embedded orthophotography. This will provide:
 - a. 2-foot contours coupled with the imagery as it existed in 2013.
 - b. This information will be supplemented with the locations of the Town's cross culverts with existing invert elevations referenced to the crown of the road.
 - c. Approximate locations of any other utilities located within the rights-of-way corridors at issue. CEA will coordinate with those utilities in acquiring their mapping to accelerate this effort.
 - d. Coordinate with Highway Superintendent John Bull to identify any known adverse soil conditions such as shallow depth to ledge, clay or sand based native soil conditions present under the road bed.
 3. Meet with the Town on an as needed basis to review materials and to discuss the status of the project investigations and documentation.
 4. Provide a written report of our findings and recommendations as it relates to:
 - a. The technical feasibility of the applicants proposed means and methods for the installation of the power line and any recommended modifications.

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- b. Any modifications to the vertical or horizontal alignment.
- c. Recommendations for the implementation of certain best management practices as it relates to erosion prevention and sediment control (EPSC) implementation at locations where site disturbance will be necessary and how the final stabilization could be implemented as a means of minimizing phosphorous discharges to the Lake.

SERVICES TO BE PROVIDED BY THE TOWN OF FERRISBURGH

The following services are to be provided by the Town in a timely manner in order to control project costs and to enable CEA to perform the services set forth above:

1. One copy of the applicant's submittal materials.
2. Copies of Town infrastructure mapping along the installation route.
3. Timely review of all submittals by CEA to the Client.

COST PROPOSAL

Civil Engineering Associates will complete the work outlined in the Scope of Services on an hourly basis (see attached CEA Rate Schedule) for an initial not-to-exceed fee of \$5,000.00. As this quality of the applicant's submittals is not fully known at this time, the amount of work to properly complete the scope of work may vary. Once the completed work value approaches \$4,000, CEA will provide a summary of the recommended remaining work items along with an estimated cost to determine if an amendment to the agreement is necessary.

Reimbursable costs such as mileage, plan reproduction and photocopying will be billed per the attached CEA Schedule of Rates. Billings are to be rendered monthly for work completed to date and are due within 30 days, after which time a 1.5% monthly interest charge and reasonable collection fees will be added to the unpaid balance.

ADDITIONAL SERVICES

Other work to be considered extra or additional services (not included in this proposal) which is to be billed at an hourly rate, if it should become necessary, includes:

1. Services due to changes in the scope of the project or its design, including but not limited to, changes in size, complexity, schedule or character of the project.
2. Any construction services, including any bid phase administration, construction phasing plans, inspections or construction cost estimates beyond those described in the Scope of Services

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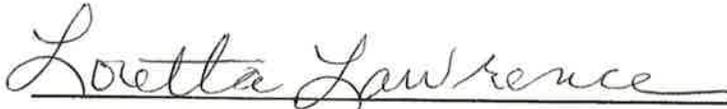
3. Providing redesign or revising studies, reports, plans, and/or specifications.
4. Any topographical survey work not listed in the Scope of Services.
5. Any boundary survey work.
6. Any soil investigations that may become necessary due to questionable soils or ledge locations.
7. Any studies required to determine the condition of underground utilities.
8. Any work associated with preparations for or testifying before the Public Service Board.

If you should have any questions or comments regarding this proposal, please feel free to contact me at 864-2323 x310 or at dmarshall@cea-vt.com. If you agree to this proposal as outlined above, please sign below and return an original signature copy to our office. We will use this as acceptance of the above proposal and an indication to proceed. We look forward to working with you on this project.

Respectfully,



David S. Marshall, P.E.
Principal Engineer



For Town of Ferrisburgh

5-10-16

Date

Enclosures: CEA 2016 Rate Sheet

Cc: CEA File – 2016 Proposals (w/ enclosures)

SCHEDULE OF RATES FOR LABOR & FEES

2016

Description	Hourly Rate
Senior Engineer.....	\$134.00
Project Manager/Engineer.....	127.00
Project Engineer.....	111.00
Staff Engineer.....	96.00
CAD/Designer.....	92.00
Surveyor 1	100.00
Surveyor 2	80.00
Technician 1	74.00
Technician 2	57.00
Administrative Assistant.....	60.00
Expert Witness/Litigation Services.....	250.00
 Reimbursable Expenses:	
Survey Equipment Rental	50.00/hour
Mileage (IRS approved mileage rate)	0.54/mile
Prints (24" x 36")	3.00/each
Color Prints (24" x 36")	20.00/each
Black & White Photocopies (8 ½ x 11)	0.25/each
Black & White Photocopies (11 x 17)	0.50/each
Color Photocopies (8 ½ x 11)	1.00/each
Color Photocopies (11 x 17)	2.00/each
Concrete Boundary Monuments	40.00/each
Recordable Mylar	25.00/each
Archive Recovery	50.00 (min.)
Subconsultant Management Markup	10%