

2019-210
207
258

PLANNING & ZONING

Town of Schodack

265 Schuurman Rd.

Castleton, NY 12033

June 19, 2019

Supervisor David Harris
Schodack Town Board Members
Schodack Town Hall
265 Schuurman Road
Castleton, NY 12033

Re: TJA Clean Energy
13 Paul Road
Castleton, NY 12033

Planning Board

Denise Mayrer,
Chairperson
Wayne Johnson, PE
Paul Puccio
John LaVoie
Lawrence D Angelo
Andrew Aubin, PE
James D Shaughnessy, PE
Craig Crist, Esq.

Dear Supervisor and Town Board Members:

Enclosed are a full Environmental Assessment Form and a copy of the concept plan for the above project.

This is a Type 1 Action. The Schodack Planning Board wishes to undertake a coordinated review and desires to declare itself as lead agency at a future meeting.

Please indicate if you object or concur at your earliest convenience. In addition, we look forward to your comments.

Thank you.

Sincerely,



Nadine Fuda
Director of Planning and Zoning
Town of Schodack

PB/NF

Enclosure

cc: Richard Laberge, P.E., Planning Board Engineer
Craig Crist, Esq., Planning Board Attorney
TJA Clean Energy / C&S Companies Eric Kenna, P.E

Voice (518) 477-7938

Fax (518) 477-7983

Zoning Board of Appeals

David Calarco,
Chairman
Ed Brewer
Anthony Maier
Lou Spada
Craig Crist, Esq.

SPECIAL PERMIT /SITE PLAN APPLICATION

Town of Schodack- Planning Board
265 Schuurman Road, Castleton, NY 12033
Phone: 518-477-7938; Fax: 518-477-7983; Nadine.fuda@schodack.org

FILE # 2019-3

CONCEPT MEETING: Monday 3/18/19

APPLICATION RECEIVED ON 2/25/19

LOCATION OF PROPERTY 13 Paul Road, Castleton-on-Hudson, New York

TAX MAP # 209-8-1 ZONE R-40 ACRES 74 ROAD FRONTAGE (ft.) 200

ENG/SURVEY FIRM CJS Engineers, Inc TELEPHONE 518-555-2900 Fax/Email info@cjseng.com

EXISTING USE(S) The existing parcel consists of forested, suburban, residential property.

INTENDED USE(S) solar photovoltaic system

WILL DEVELOPMENT BE PHASED? YES NO X IF YES, ATTACH LETTER OF EXPLANATION.

WILL YOU BE SEEKING A SITE DEVELOPMENT PERMIT BEFORE FINAL APPROVAL? YES NO X

WHEN PRELIMINARY APPROVAL IS GRANTED, THE BUILDING INSPECTOR WILL BE NOTIFIED. A SITE DEVELOPMENT PERMIT WILL BE ISSUED BY THE BUILDING INSPECTOR WHEN ALL PAPERWORK IS IN ORDER.

** IS THIS PROPERTY IN AN AGRICULTURAL DISTRICT CONTAINING A FARM OPERATION? YES NO X

** ARE THE BOUNDARIES OF THIS PARCEL WITHIN 500 FEET OF A FARM OPERATION LOCATED IN AN AGRICULTURAL DISTRICT? YES X NO IF YOU ANSWERED YES TO EITHER OF THE ** QUESTIONS, ADDITIONAL INFORMATION MAY BE REQUIRED.

ATTACH: EAF, Application fee, Survey/Site Plan Maps (min. 10), appropriate fees, letter of intent, must be submitted 10 days before initial review.

Application is hereby made to the Planning Office. The Applicant or Owner agrees to comply with all applicable laws, Ordinances, Regulations of the Town of Schodack and New York State for approval of the application.

WHO WILL BE REPRESENTING YOUR APPLICATION AT THE PLANNING BOARD MEETINGS? Michael Frateschi
CJS Engineers, Inc.

Date 2/19/19 TJA Clean Energy
MAILING ADDRESS 150 John Vertenlo Blvd - New Bedford, MA 02745
TELEPHONE# (774) 573-5726 OTHER# FAX #

Date 2/19/19 Pillar, LLC
MAILING ADDRESS 150 John Vertenlo Blvd - New Bedford, MA 02745
TELEPHONE# (774) 573-5726 OTHER# FAX #

Nadine Fuda, Director / Denise Mayrer - Chairperson / Craig Crist, Attorney / Richard Laberge, P.E.
Wayne Johnson / John LaVole / Paul Puccio / Lawrence D Angelo / Andrew Aubin / James D. Shaughnessy

1/8/18 NF

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: TJA Clean Energy, Fort Plain Solar		
Project Location (describe, and attach a general location map): 13 Paul Road, Castleton on Hudson, New York 12033 (See Figure 1)		
Brief Description of Proposed Action (include purpose or need): The proposed project is for the construction of a ground-mounted solar farm and associated electrical appurtenances to the south of Paul Road in the Town of Schodack. The solar photovoltaic (PV) system is proposed for installation within an approximate 74-acre site. The project uses 40 SUNGROW SG125HV 125kW string inverters, and 20,800 LG Neon 2 LG335N1C-A5 335W Modules to obtain a total generation of 5-megawatts AC. There is an existing three phase National Grid feeder running north-south along the east side of Paul Road which will be upgraded/overbuilt to allow for the interconnection. The interconnection wiring, connecting the solar array to the National Grid point of interconnection along Paul Road, will be pole mounted, overhead wiring.		
Name of Applicant/Sponsor: Timothy Vautour, TJA Clean Energy		Telephone: 508-717-0214 E-Mail: tvautour@tja.energy
Address: 150 John Vertente Boulevard		
City/PO: New Bedford	State: MA	Zip Code: 02745
Project Contact (if not same as sponsor; give name and title/role): Bryan A. Bayer, C&S Engineers, Inc.		Telephone: 315-455-2000 E-Mail: bbayer@cscos.com
Address: 499 Col. Eileen Collins Boulevard		
City/PO: Syracuse	State: NY	Zip Code: 13212
Property Owner (if not same as sponsor): (Same as sponsor)		Telephone: E-Mail:
Address:		
City/PO:	State:	Zip Code:

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance.
If Yes, what is the zoning classification(s) including any applicable overlay district?

☒ Yes ☐ No

R-40, Residential 40

b. Is the use permitted or allowed by a special or conditional use permit?

☒ Yes ☐ No

c. Is a zoning change requested as part of the proposed action?

☐ Yes ☒ No

If Yes,

i. What is the proposed new zoning for the site?

C.4. Existing community services.

a. In what school district is the project site located? Schodack Central School District

b. What police or other public protection forces serve the project site?

Town of Schodack Police Department

c. Which fire protection and emergency medical services serve the project site?

Castleton Volunteer Ambulance, Schodack Valley Couterer Fire, South Schodack, Rensselaer County Communications Center

d. What parks serve the project site?

Not applicable

D. Project Details**D.1. Proposed and Potential Development**

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Solar PV Array

b. a. Total acreage of the site of the proposed action? 74 acres

b. Total acreage to be physically disturbed? 29.1 acres

c. Total acreage (project site and any contiguous properties) owned
or controlled by the applicant or project sponsor? 74 acres

c. Is the proposed action an expansion of an existing project or use?

☐ Yes ☒ No

i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % Units:

d. Is the proposed action a subdivision, or does it include a subdivision?

☐ Yes ☒ No

If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed?

☐ Yes ☐ No

iii. Number of lots proposed?

iv. Minimum and maximum proposed lot sizes? Minimum Maximum

e. Will the proposed action be constructed in multiple phases?

☐ Yes ☒ No

i. If No, anticipated period of construction:

months

ii. If Yes:

• Total number of phases anticipated

• Anticipated commencement date of phase 1 (including demolition) month year

• Anticipated completion date of final phase month year

• Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases:

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and extensions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments?

☐ Yes ☐ No

If Yes, describe:

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation?

☐ Yes ☐ No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water?

☐ Yes ☒ No

If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply?

☐ Yes ☐ No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No
- Do existing lines serve the project site? ☐ Yes ☐ No

iii. Will line extension within an existing district be necessary to supply the project?

☐ Yes ☐ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____
- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site?

☐ Yes ☐ No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes?

☐ Yes ☒ No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities?

☐ Yes ☐ No

If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐ Yes ☒ No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐ Yes ☒ No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐ Yes ☒ No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐ Weekend
☐ Randomly between hours of _____ to _____

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐ Yes ☐ No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐ Yes ☐ No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐ Yes ☐ No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐ Yes ☐ No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐ Yes ☒ No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐ Yes ☐ No

l. Hours of operation. Answer all items which apply.

i. During Construction:	ii. During Operations:
• Monday - Friday: _____ 7am-5pm	• Monday - Friday: _____ Not applicable
• Saturday: _____ Not applicable	• Saturday: _____ Not applicable
• Sunday: _____ Not applicable	• Sunday: _____ Not applicable
• Holidays: _____ Not applicable	• Holidays: _____ Not applicable

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☒ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☒ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☒ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility: _____

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☐ Urban ☐ Industrial ☐ Commercial ☒ Residential (suburban) ☐ Rural (non-farm)

☒ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe:

The site is an undeveloped woodlot with multiple streams. It is adjacent to residential areas and additional undeveloped woodlots and forested wetlands.

b. Land uses and covertypes on the project site.

Land use or Covertypes	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	0	0	0
• Forested	29.0	0	-29.0
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0	3.5	+3.5
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0.1	0.1	0
• Wetlands (freshwater or tidal)	0	0	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: Solar Pv Array	0	25.6	+25.06

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☒ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? _____ TBD feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☒ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ %

c. Predominant soil type(s) present on project site:

Madalin silt loam	35.9 %
Shaker very fine sandy loam	30.8 %
Riverhead fine sandy loam	26.6 %

d. What is the average depth to the water table on the project site? Average: _____ 0-6 feet

e. Drainage status of project site soils: ☒ Well Drained: 31.2 % of site
☒ Moderately Well Drained: 2.2 % of site
☒ Poorly Drained: 66.7 % of site

f. Approximate proportion of proposed action site with slopes: ☒ 0-10%: 100 % of site
☐ 10-15%: _____ % of site
☐ 15% or greater: _____ % of site

g. Are there any unique geologic features on the project site? ☐ Yes ☒ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☒ Yes ☐ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☒ Yes ☐ No
If Yes to either i or ii, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☒ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name Federal Waters Classification N/A
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name Federal Waters Approximate Size No wetlands within LOD
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☒ No
If yes, name of impaired water body/bodies and basis for listing as impaired: _____

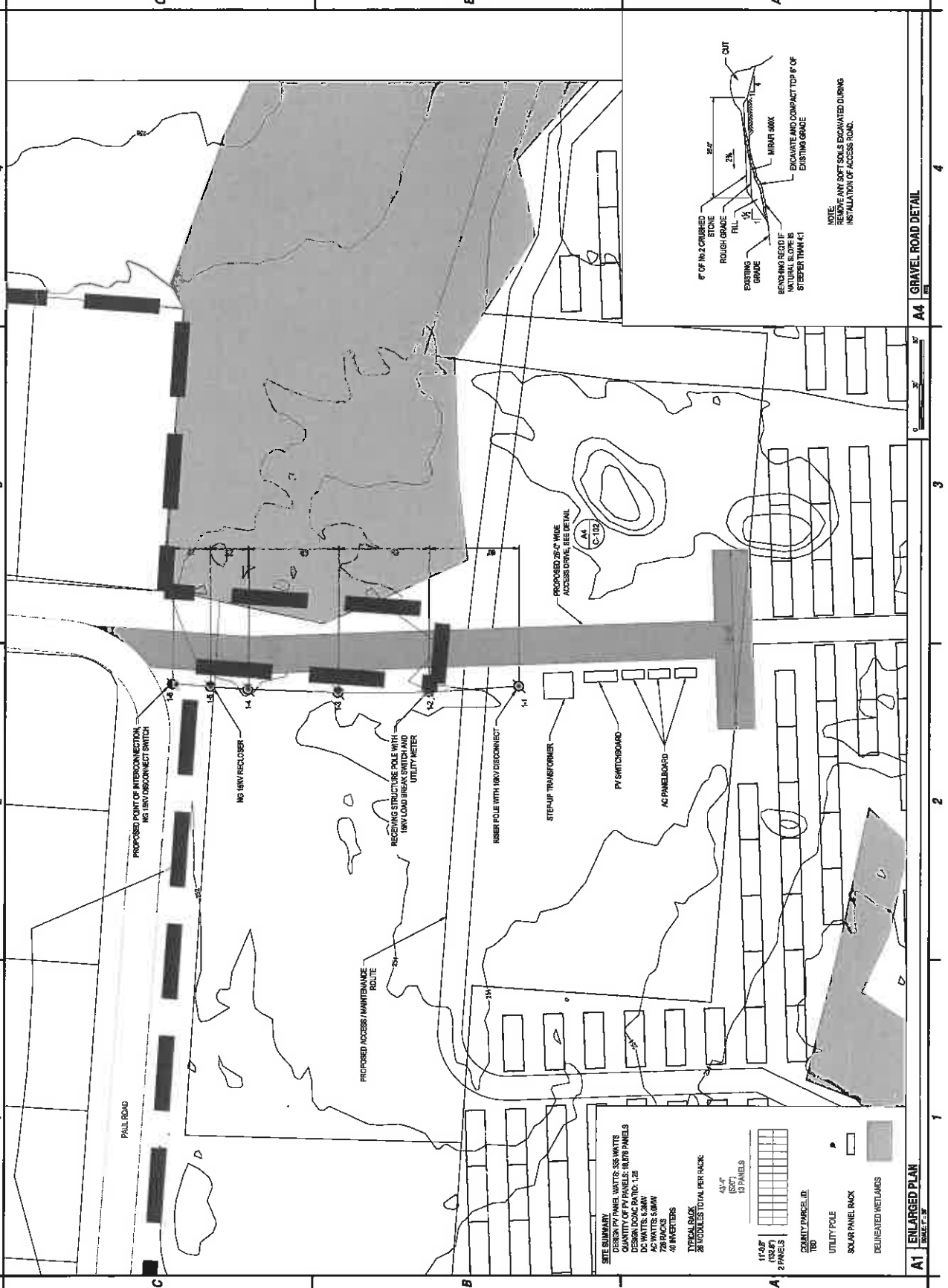
i. Is the project site in a designated Floodway? ☐ Yes ☒ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☒ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☒ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☒ Yes ☐ No
If Yes:
i. Name of aquifer: Principal Aquifer

E.2.i. [Aquifer Names]	Principal Aquifer
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National Register of Historic Places]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No



C&S ENGINEERS, INC.
8200 East Pine Center PKWY
Pine Brook, NJ 07063
Tel: (908) 897-7932
www.candco.com

PRELIMINARY
NOT FOR CONSTRUCTION

CASTLETON SOLAR
13 PAUL ROAD
CASTLETON ON HUDSON, NY 12033
NATIONAL GRID CASE #: 001688448
LAT: 42.5239 LONG: -73.7029

ENLARGED PLAN

C-102

NO.	DATE	DESCRIPTION
PROJECT NO.	OCTOBER, 2018	REVISIONS
DATE	BY: J. BLONDIAN	
DRAWN BY	DESIGNED BY: J. BLONDIAN	
CHECKED BY: J. BLONDIAN		

NO ALTERATION PERMITTED HEREON WITHOUT THE WRITTEN APPROVAL OF C&S ENGINEERS, INC.
7288 SUBDIVISION 2 OF THE NEW YORK EROSION CONTROL ACT

2019-261



Archives Partnership Trust

COLLEGE EDUCATION CENTER, SUITE 9077, ALBANY, NY 12230

518.774.5174 • katharine.Davis@nyed.gov • WWW.NYARCHIVETRUST.ORG

Katie Davis
Student Assistant

August 8, 2018

Diane L. Hutchinson
Town of Schodack Historian
265 Schuurman Road
Castleton, NY 12033

Dear Ms. Hutchinson,

Your organization previously granted permission for the image of Elsie the Cow, which can be attached via email, to be published in the Fall 2007, Volume 7 Issue 2 of *New York Archives* magazine, to accompany the article titled "Adversity's Sweet Milk," by G. William Beardslee.

The Archives Partnership Trust is currently in the process of upgrading our website (www.nyarchivetrust.org) and would like to offer digital versions, in PDF form, of selected articles and issues from the magazine's 17-year run (2001-present).

The Trust requests your permission to reproduce, in electronic format, the image referenced above, along with permission for any web use associated with the article it accompanies. Should the article be featured, we also request permission to crop, enlarge, and/or reduce the image to fit the page; and to detail the image (i.e., enlarge a certain portion of the image for purposes of discussion). Credit acknowledgement will conform to the usual practice of citing artist, title, copyright holder (i.e., owner/source). Please know that the Trust is a non-profit organization with a very limited budget for permissions fees.

Your early consideration of this request will be greatly appreciated.

Sincerely,

Katie Davis

Accepted and agreed to:

Permissions Manager

Date: _____



The Trust, a 501(c)(3) non-profit, exists to ensure over 350 years of New York's colonial and state government records housed at the New York State Archives, remain relevant and the voices—represented in these documents—heard. By raising support for education and outreach programs not funded by the state, the Trust keeps current and future generations connected to our collective past. Programs include: Special collection preservation projects; K-12 educational resources and tools for using historical documents in the classroom; Larry J. Hackman Research Residency Program; *New York Archives* Magazine; *New York Archives* Magazine Speaker Series; Student Research Awards and other regional educational programs; and the Empire State Archives & History Award, APT's nationally recognized signature event.



“ADVERSITY’S SWEET MILK”



BY G. WILLIAM BEARDSLEE

Shakespeare’s phrase could be the emblem for Gail Borden’s career as an inventor: his inventions seemed destined for failure and financial ruin. But when he turned his talents to milk preservation, he succeeded in revolutionizing both the dairies and diets of America.

*I Tried And Failed.
I Tried Again And Again
And Succeeded.*

Even Gail Borden’s epitaph in Woodlawn Cemetery in The Bronx shows the determination of the nineteenth-century inventor, publisher, and surveyor who is today best known as the founder of the Borden Company. Borden’s, a corporate giant of America’s food industry, first introduced its

pioneering product, condensed milk, after Gail developed a milk preservation process that immediately revolutionized American diets, nutrition, and food safety, particularly during the Civil War. Though he failed several times with his other inventions, by the time of his death in 1874 Borden was internationally renowned as a businessman, inventor, and philanthropist—and as a man whose early legendary failures ultimately contributed to his success.

Gail Borden Jr. was born in Norwich, Chenango County, New York in 1801. His family moved first to Kentucky in 1814, then to Indiana, and later to Amite County, Mississippi. By the late 1820s, Borden was married and working as a surveyor. But like many other Americans and central New Yorkers, Borden and his first wife, Penelope Mercer Borden, joined those who were “gone to Texas.” There he initially worked as a farmer, stockman,

and blacksmith; later he was appointed successor to his brother Thomas as an official surveyor, and platted the towns of Galveston and Houston. He also found time in 1835 to establish the first newspaper in Texas, the *Telegraph and Texas Land Register*, and during the conflict between Texas and Mexico he allegedly penned the phrase “Remember the Alamo.” He was also active in the establishment of the Texas state government.

In 1837, Borden was appointed collector of customs at Galveston by Texas Governor Sam Houston. Despite the inherent difficulties of the job, he was extremely popular, and was reappointed from 1841–43. Throughout the 1840s, he also continued his development of Galveston real estate and eventually sold over 2,500 lots. He was a trustee of the Texas Baptist Education Society, which founded Baylor University; an officer in the local temperance

Above: Gail Borden
HEXION SPECIALTY CHEMICALS

The Borden Condensery at New Berlin was the world's largest milk condensery.



Borden milk condenser.
HEXION SPECIALTY CHEMICALS

society; and deacon and clerk of the local Baptist church.

An Inventor Is Born

Then Borden turned his considerable talents to inventing. Having lost his wife Penelope in a yellow fever epidemic in 1844, and with seven children to support, he invented a massive ether refrigeration machine which was designed to "chill" the fever out of the afflicted. It was an immediate failure. Only slightly less disappointing was his "locomotive bath house," invented for Galveston women who wished to bathe in the Gulf of Mexico without being seen. Then came something called the "terraqueous machine," a sort of prairie schooner that would move on either land or water; this too never quite caught on.

But Borden was also fascinated by the potential for food preservation and storage. His initial experiments in this field were designed to preserve meat and bread through water removal and the concentration of nutrients, and culminated in a "meat biscuit," made of dehydrated meat compounded with flour, that was stored in a sealed can. After spending

\$100,000 on the process, and having been divorced by his second wife, in 1851 he obtained a patent for his "potable dessicated soup bread." Although the meat biscuit won numerous awards and international recognition, and was considered to be as important as McCormick's mechanical reaper and Goodyear's "India rubber," it was a significant commercial failure.

So Borden abruptly abandoned the project in order to devote time to another idea: the preservation of milk. In 1851 he returned to New York and continued his water removal/condensation experiments, this time on raw milk, allegedly observing processes used at the Shaker Community at New Lebanon. Raw milk had historically posed considerable health risks. Loaded with naturally occurring bacteria, it spoiled rapidly, particularly during the summer. It also caused a multitude of sicknesses, including "milksick, milk poison, milk trembles, the slows," and "the milk evil," not to mention death from contamination. Unaware of what would one day be known as the "germ theory"

of disease, Borden repeated aspects of his prior dessication processes and learned that a key factor in preserving raw milk was preventing the initiation of milk decomposition. Unlike other workers in food preservation who experimented with the removal of certain milk solids or butterfat, Borden's method centered on two processes: removing the water from milk, and preventing introduction of foreign contaminants into it, from the time it was drawn from the cow until completion of the condensation process.

A Milk Revolution

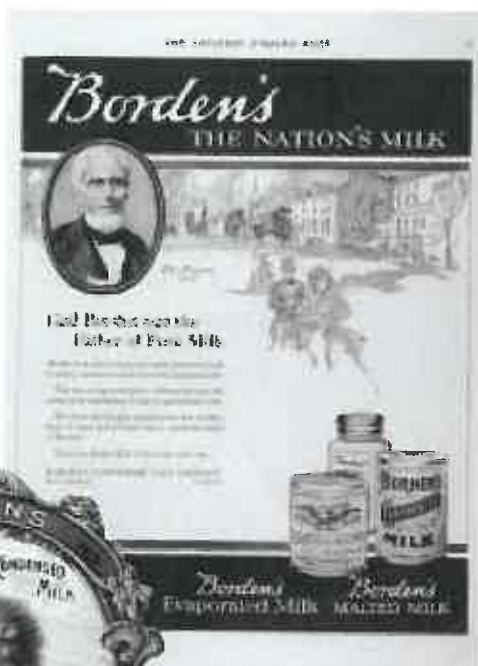
His early efforts to condense milk were failures. But after much experimentation, effort, and expense, Borden discovered that the evaporation-condensation process was enhanced when it was performed under heat in a vacuum kettle and when sugar was added as a preservative. His "vacuum process" was granted the first of several patents in 1856. Instead of a perishable product that decomposed within a day or two, canned condensed milk

Several aspects of American life were permanently modified by Borden's invention, beginning with the economy of rural central New York.



Early advertisements for Borden's Milk touted its purity and claimed that there was a Borden milk product for every need.

His insistence on dairy sanitation and cleanliness was well known and became codified into business procedures.



could be kept pure without refrigeration, had a shelf life of as much as twenty-four months, and was transportable over great distances.

Nearly destitute from the expense of procuring patents, Borden had little capital with which to finance the large-scale manufacture of his condensed milk. But in 1858, with the backing of Wall Street financier Jeremiah Milbank, he began the New York Condensed Milk Company, later renamed the Borden Company. At first slowly, and then in a flood after the 1861 outbreak of the Civil War with its immediate need for field rations for Union soldiers, Borden opened milk condenseries in Wassaucott and Brewster, New York; Elgin, Illinois; Livermore, Maine; and Burrville, Connecticut. At the height of Civil War production, the Union Army was buying 25,000 quarts a day from the company; the Elgin condensery alone was producing 300,000 gallons annually. Many other companies eventually produced condensed milk under Borden's licensed patents, but the most successful was his own

Eagle Brand Sweetened Condensed Milk. In the mid-1880s, the Borden Company would successfully develop a process that packaged this product in the small cans that it is still sold in today.

Finally flush with his successes, Borden returned with his third wife to Texas after the Civil War and opened several more businesses, including a meat packing plant, a sawmill, and a copperware factory. He also invented processes for condensing fruit juices, beef extract, and coffee. His community energy undiminished, in 1873 he built schools for both freedmen's and white children; organized a day and a Sunday school for black children; aided in constructing five churches; maintained two missionaries; and partially supported numerous poorly paid teachers, ministers, and students. He died in 1874 in Borden, Texas; his body was shipped by private car to New York for burial in Woodlawn Cemetery.

Got Milk?

Several aspects of American life were permanently modified by Borden's invention, beginning with the economy of rural central New York. The region had long produced significant quantities of milk, primarily for the production of cheese and butter, but between 1865 and 1920 at least several dozen Borden condenseries and milk plants were constructed in scores of central New York cities, towns, and villages. For example, within a relatively small area

of Otsego and Chenango Counties, condenseries were built along the Unadilla and Chenango Rivers, and later along nearby railroad routes in Mt. Upton, Schenectady, Norwich, Edmeston, Oxford, and Pittsfield (New Berlin). The result was an increase in the number of family farms whose single product was raw milk destined for one of these condenseries. As time went on, the farms expanded into even larger entities.

Condenseries were necessarily built near the source of the raw milk, not unlike modern beef processing plants, which are similarly located near western cattle operations. The Borden condensery that was built in the Town of Pittsfield near New Berlin was converted in 1899 from a cotton factory, which had been built in 1832. Until its sale to The Nestle Company in 1920, this factory (which produced Eagle Brand Condensed Milk) was the world's largest milk condensery. Although no production records are known to exist, other Borden condensery records suggest that the New Berlin plant employed more than 100 workers who produced and packed 25,000 tin cans daily. About 300 barrels of refined white sugar were used each week. The factory's daily consumption of locally produced raw milk was at least 15,000 gallons, supplied by some 7,500 cows from approximately 150 nearby dairy farms.

Gail Borden's legacy also includes important improvements to food safety measures.



COURTESY OF BORDEN BRAND CHEESE



TOWN OF SCHODACK

In 1941, the real Elsie the Cow lived on a farm in East Schodack (Rensselaer County), New York.



COURTESY OF BORDEN BRAND CHEESE

According to the Borden Company, milking machines were "more comfortable to the cow and more efficient than the most expert human hands."

His insistence on dairy sanitation and cleanliness was well known and became codified into business procedures. Local farmers who sold their milk to Borden's condenseries were required to meet "Borden's Standards" via contractual obligations, which included specific details and techniques for how cows should be milked. The contracts further stipulated that farmers "agreed not to feed cows on turnips, ensilage, wet or dry barley sprouts, falo feed, or any feed which will impart a disagreeable flavor to the milk, or which will not produce milk of standard richness."

Two Centuries of Success

There were social consequences, too. After condensation, the milk was canned, which required the placement of a small soldered top. Scores

of young local women, known as "Borden's Girls," were hired to perform this deft and delicate maneuver on the assembly line. A story passed down within a Columbus, New York family relates that, in the milk season of 1899, one such girl who worked at a Borden's condensery in Hoboken, New Jersey earned the standard nine cents for "each hundred of the soldered cans she produced. During one month, she earned over \$24 by working ten hours a day and six days a week. Her earnings were more than many young men earned in a month—and her fiancé, a prominent local dairy farmer, publicly considered this scandalous wage" for a woman an outrage.

The Borden Company's promotion and marketing of the product was also revolu-

tionary. Openly playing to the public's historic fears of contaminated and disease-ridden raw milk, Borden's advertisements featured images of happy, healthy babies drinking safe and sanitary Borden's condensed milk. Gail Borden's own Eagle Brand Condensed Milk is said to be the oldest food product brand name in continuous use.

With the introduction of refrigeration, pasteurization, and homogenization in the twentieth century, the market share of condensed milk within the United States declined. Today, condensed milk (and its close cousin, evaporated milk) accounts for less than two percent of all American milk production. But it is still highly popular for dessert items and is still consumed wherever refrigeration is unavailable—evidence that Gail Borden's remarkable invention changed dairy farming from a haphazard small business/family operation into a major industry that has succeeded even into the twenty-first century. ■

THE ARCHIVES CONNECTION

For research on this article, I consulted the following archival resources in New York: the Chenango County Historical Society and the Chenango County Museum, both in Norwich; the Village of New Berlin Library Archives and the Beardslee Family Document and Images Collection, both in New Berlin; and the New York State Historical Association Library and Archives in Cooperstown. I also consulted the Eagle Family Foods Inc. corporate archives in Gahanna, Ohio, and the Hexion Specialty Chemicals Inc. public affairs archives (formerly Borden's Chemical Company) in Columbus, Ohio.

**Gail Borden's own
Eagle Brand
Condensed Milk is said
to be the oldest food
product brand name
in continuous use.**



2019-262

September 23, 2019

Via Email & Mail

David Harris, Supervisor and
Town Board Members
Town of Schodack
265 Schuurman Road
Castleton, New York 12033

Re: Professional Services Proposal
Short Term Improvements:
Transfer Station Fall Prevention
Town of Schodack, New York

Dear Supervisor Harris and Town Board Members:

This letter serves as our professional services proposal to assist the Town of Schodack with short term improvements at the Town's Transfer Station to address possible fall prevention/safety issues.

PROPOSED SCOPE OF SERVICES

Fall Prevention & Other Safety Recommendations. We will make recommendations for improvements that could be undertaken immediately to address potential fall issues for employees and facility users. For this task we will:

1. Make recommendations for the placement of protection and the type of fall protection. Fall protection will generally consist of guards placed to a height of 42" at locations where a fall potential of 36" or more could occur;
2. Make recommendations for potential short term improvement that can be implemented to improve user and vehicle safety relative to access and unloading; and
3. Issue a sketch plan showing the locations for improvements to be implemented along with manufacturer specification and installation recommendations.

FEE PROPOSAL

Based upon the above scope of service, Laberge Group proposes a fee of \$4,000 plus reimbursable expenses. Should the Town wish to bid the recommended improvements in place of utilizing Town work forces we will provide a separate proposal for the preparation of a bid package, solicitation of contractors, bid opening assistance and award recommendations. These additional services could also include construction administration efforts at your request.

David Harris, Supervisor
September 23, 2019
Page 2 of 2

We look forward to working with the Town on this project. As always, please do not hesitate to call with any questions or comments you may have regarding the information provided herein.

Very truly yours,
LABERGE GROUP

By: 

Richard F. Laberge, P.E.
President

September 23, 2019

Via Email & Mail

David Harris, Supervisor and
Town Board Members
Town of Schodack
265 Schuurman Road
Castleton, New York 12033

Re: Professional Services Proposal
Transfer Station Facility
Planning and Grant Development
Town of Schodack, New York

Dear Supervisor Harris and Town Board Members:

This letter serves as our professional services proposal to assist the Town of Schodack with Engineering, Planning and Grants assistance for the Town's Transfer Station. We understand that the Town is seeking to improve the transfer stations equipment and operational efficiency and to fund potential improvements to the extent possible through existing State grant programs that may be available. In particular, grant funding may be available for improvements and operations specifically assignable to waste recycling.

PROPOSED SCOPE OF SERVICES

Task 1: Concept Plan & Equipment Recommendation.

We will prepare a new transfer station layout plan based upon the following:

1. The "Town of Schodack Residential Transfer Station Alternatives Analysis" June 2010 Report;
2. Staff recommendations for improved operations that include: traffic flow, equipment and other facility improvements; and
3. Consultation with an equipment manufacturer.

The new concept plan will incorporate various desirous elements from the three transfer station layout reconfigurations as recommended in the June 2010 report. We will meet with the Director of Transfer Station Operations to review the prior report recommendations, equipment and other facility improvements that may improve the efficiency and safety of the station upon full implementation.

The concept for improved transfer station operations will strive to minimize grade differences and improve traffic flow for both users and operators. The plan will also include desired upgrades to the station as

requested by the facility operator, such as improved signage, and additional facility equipment such as waste and recyclables compactors and overhead weather protection improvements.

A concept level estimate of the probable cost to construct the various improvements will be presented to the Town for review and comment.

We will meet with the Town to receive any comments regarding their review of the new layout, equipment and other facility improvements proposed and revise the concept plan as necessary. In conclusion we will provide a summary letter with the concept plan to include recommendations for additional services, project permitting overview and the anticipated costs

Task 2: MWRR Grant Proposal–Salary/Public Education Activity:

The Town of Schodack is eligible for up to 50% of the costs associated with Recycling, Coordination, Education, Planning and Promotion projects.

Laberge Group, with the assistance of the Town of Schodack, will carry out the following steps to complete a Municipal Waste Reduction and Recycling Program (MWRR) Grant Proposal for Recycling Coordination, Education, Planning and Promotion Projects:

1. Prepare sample municipal resolution(s);
2. Based on the existing information, prepare grant narratives and supporting attachments necessary to the submission of the MWRR application;
3. Prepare NYS MWRR Application for Town Certifications prior to October 31, 2019; and
4. Submit the completed MWRR Grant Application by 5:00pm on October 31, 2019 with one copy to the Town of Schodack.

Task 3: MWRR Grant Proposal–Capital Projects:

The Town of Schodack is eligible for up to 50% of the cost of capital projects not to exceed 2 million dollars.

Laberge Group, with the assistance of the Town of Schodack, will carry out the following steps to complete a Municipal Waste Reduction and Recycling Program (MWRR) Grant Proposal for Recycling Capital Projects (equipment and facilities). This grant has an open ended deadline and such grant shall be submitted and involves the following tasks:

1. Prepare sample municipal resolution(s);
2. Based on the existing information, prepare grant narratives and supporting attachments necessary to the submission of the MWRR application;
3. Prepare NYS MWRR Application for Town Certifications; and
4. Submit the completed MWRR Grant Application with one copy to the Town of Schodack.

FEE PROPOSAL

Based upon the above scope of service, Laberge Group proposes the following task fees in addition to normal project expenses:

Task 1: Concept Plan & Equipment Recommendation:.....\$ 6,000.00

Task 2: MWRR Grant Proposal–Salary/Public Coordination & Education\$ 2,500.00

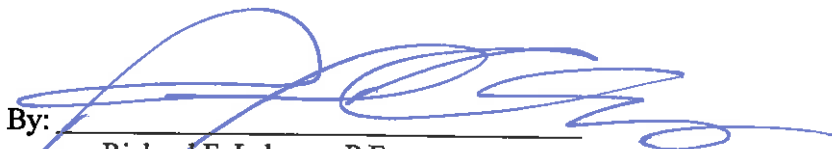
Task 3: MWRR Grant Proposal–Capital:.....\$ 3,000.00

In the event Laberge Group is directed by the municipality or the funding source to stop work on an in-process task, or in the event the municipality changes the original project after preparation work has begun, billing to the municipality will be for only the work completed to that date.

Services completed to that date will be billed on an hourly basis not to exceed the indicated task fee. In addition, should the Town require assistance to amend or prepare substantive materials to support the application, Laberge Group shall do so at normal hourly rates plus expenses.

We look forward to working with the Town on this project. As always, please do not hesitate to call with any questions or comments you may have regarding the information provided herein.

Very truly yours,
LABERGE GROUP

By: 
Richard F. Laberge, P.E.
President

RFL: bnl

2019-265

Payroll Service Providers - Price Comparison

9/12/2019

Based on 63 BW employees

Monthly basis:

		<u>ADP</u> w/3% increase	<u>Workforce Go!</u>	<u>Paylocity</u>
Payroll Processing	\$	6.71	\$ 5.00	
Total Pay	\$	1.93	incl'd	
Time & Attendance	\$	3.06	\$ 4.60	
HR		-	\$ 4.60	
	\$	11.69	\$ 14.20	\$ 15.10
For 63 BW employees:				
Annualized	\$	736.71	\$ 894.60	\$ 951.00
	\$	8,840.57	\$ 10,735.20	\$ 11,412.00
<u>Additional Payrolls:</u>			\$ 14.20	\$ 12.50
Qtrly Payroll (4) - 45 employees/23 add'l	4.82 \$	867.67	\$ 1,306.40	\$ 1,150.00
Summer Camp Payroll (2) - 80 add'l employees	3.64 \$	581.74	\$ 2,272.00	\$ 2,000.00
Police Holiday/Uniform PR (1) 12 employees/ no add'l	10.30 \$	123.60	\$ -	\$ -
Additional Payrolls - Annualized	\$	1,573.02	\$ 3,578.40	\$ 3,150.00
Per Month:				
Ethernet, QuickPunch	per mo \$	123.29	purchase tablet	purchase tablet
	\$	1,479.49		
Quarterly & Annual Tax Services - Annual Fee		included above	\$ 240.00	included above
Reports:				
Qtrly Earnings (4)	\$	102.96	included above	included above
Acctg Report Pkg (12)	\$	42.02	included above	included above
	\$	916.12		
Annual:				
W-2s		5.25	\$ 5.00	\$ 45 base
	195	1,024.34	195 \$ 975.00	195 \$ 6.50
		plus 19.80 shipping		1,312.50
		shipping: \$9.80/PR Qtrly docs \$19.80/qtr W-2's \$19.80	quote does not include shipping chrgs	quote does not include shipping chrgs
Est Annual Costs		13,833.54	15,528.60	15,874.50
Implementation				
		Workforce Go!	\$ 5,500.00	\$ 2,326.38
		JMT	\$ 2,500.00	



SCHODACK

Town of Schodack
P.O. Box 436,
East Schodack, NY, 12063

We're Ready!! You're Set!!

workforce go!

Proposal Date:
June 26, 2019

Integration included
Abila/MIP Interface
Traditional

	# of EINs	1
	# Employees	63
Full Service Payroll Suite (Per Employee Per Month)	\$	5.00
Payroll Process Management	Included	
- Calculations As You Go	Included	
- Gross To Net	Included	
- Payroll Alerts	Included	
- Real Time Payroll Processing	Included	
- Reconciliation Pay Statements	Included	
- Check Signing/Stuffing/Vouchers	Included	
- Direct Deposit	Included	
- Data Storage	Included	
Payroll Reporting	Included	
- Integrated Report Writer	Included	
- Reports Sent be Email	Included	
- Standard Reports Library	Included	
Benefits	Included	
- Worker's Compensation Management	Included	
- Total Compensation Statement	Included	
General Ledger Processing	Included	
Employee & Manager Self-Service	Included	
Time & Labor Management (Per Employee Per Month)	\$	4.60
Employee & Manager Self Service	Included	
Timesheet Approval Workflow	Included	
Company Dashboard	Included	
Time Off Request	Included	
Job Costing	Included	
Accruals	Included	
Flexible Pay Rules and Rates	Included	
Mass Edit Capabilities	Included	
Email Notifications	Included	
Exception Tracking	Included	
Auto Populated Holidays	Included	
Export Utility	Included	
GPS Reporting	Included	
Scheduling	Included	
People Management (Per Employee Per Month)	\$	4.60
Onboarding	Included	
Benefits Administration	Included	
Asset Management	Included	
Training & Certification Management	Included	
HR Resources	Included	
Incident & Discipline Tracking	Included	
Compliance	Included	
Position & Job History	Included	
User Created Fields	Included	
User Created Screens	Included	



SCHODACK

Town of Schodack
P.O. Box 436,
East Schodack, NY, 12063

We're Ready!! You're Set!!

workforce go!

Proposal Date:

June 26, 2019

Integration included

Abila/MIP Interface

Traditional

	# of EINs	1
	# Employees	63
Easy-to-User Report Writer	Included	
Export to Excel, PDF & More	Included	
Configurable Workflows	Included	
Employee & Manager Self Service	Included	
Offboarding	Included	
Workforce Go! Tax Management Services		
Included: Federal/FUTA & Quarterly Returns State Withholding and Unemployment New Hire Reporting (Full Service PR Only)		
Total Number of State Jurisdictions		1 jurisdictions
Additional quarterly filings calculated cost		240.00
Total Number of Local Jurisdictions:		jurisdictions
Additional quarterly filings calculated cost		-
Annual Fee:		\$ 240.00
Per Employee Per Month Core Modules (PEPM)	\$ 14.20	
Total Additional Items Annual	\$	
Tax Management Services	\$ 240.00	
Total Annual	\$ 10,975.20	\$ 10,975.20
Workforce Go! Suite Implementation		\$ 5,500.00
Advanced Scheduler Implementation Fee (one time fee)		
Workforce Go! Suite Total Implementation		\$ 5,500.00

Additional Monthly Fees:

Wage & Garnishment (Per Payment)	\$	2.25
Benefit Carrier Communications (Per Employee Per Month)	\$	1.00
Recruiting & Applicant Management Job Board Posting (Per Posting Per Month)	\$	12.00
eQuest Advantage Network		No Cost
eQuest Premium Network (Per Posting Per Month)	\$	12.00
HR On Demand Support (Per Month)	\$	40.00
ACA Monitoring & Reporting (Per Employee Per Month)	\$	0.50
Leave Management (Per Employee Per Month)	\$	3.28

Additional Annual Fees:

Social Security Verification (Per Verification Per Year)	\$	0.50
e-Verify (Per Verification Per Year)	\$	3.25
Additional State Jurisdiction (Per Year)	\$	240.00
Additional Local Jurisdictions (Per Year)	\$	120.00
Employer W-3/940 Filings (Per Form)	\$	50.00
Employee W-2's / 1099 (Per Form)	\$	2.00
Employer 1094-C (Per Form)	\$	50.00
Employee 1095-C (Per Form)	\$	2.00

Prepared Exclusively for:
Town of Schodack
265 Schuurman Road
Castleton, NY 12033
ph: 518-477-7919



Rebecca Caruso
1440 American Lane
Schaumburg, IL 60173
518-321-4358
rcaruso@paylocity.com

Paylocity Quote for Service

September 2, 2019

This quote valid for 30 days

Company Information		TOS
Number of Employees		63
Number of Annual Payroll Processings		26
Number of State / Local Tax Reports		1

One-Time Fees	Qty	Cost Per	Ext. Cost
Full Bundle Pricing - Implementation			\$ 2,326.38
Web Time - Time and Labor			
Total			\$ 2,326.38

Monthly Fees	Qty	Cost Per	TOS
Full Bundle Pricing	63	\$ 12.50 Base \$ 163.50	\$ 951.00
Bi-Weekly Payroll Processing			
General Ledger Service			
Paylocity Bank Checks			
Check Signing			
Check Sealing			
Direct Deposit			
New Hire Reporting			
Comprehensive Training			
Report Writer (Ad Hoc Reporting)			
Comprehensive Report Library			
Time Off Accruals			
Remote Print Back			
Online Quarterly Reports and W2 Access			
Tax Filing - Bi-Weekly	1		
Delivery Method - UPS (\$15.00 Per Delivery)			
Enhanced HR Bundle	63		
Full HRIS - Reporting, PTO Mgmt., Mobile, Notifications, Unlimited Doc Storage, etc.			
Self Service for Employees and Managers			
Intranet Portal w/Online Check View			
Web Onboarding			
Web Time - Time and Labor			
Total Per Month			\$ 951.00

Year-End Fees	Qty	Cost Per	TOS
Year-End W2/1099	173	\$ 6.50 Base \$ 45.00	\$ 1,169.50
SSN Validation	63	\$ 0.50 Base \$ 25.00	\$ 56.50
Quarterly Tax Return - Internet Delivery			Included
Total			\$ 1,226.00

Total Cost Summary*		TOS
Total One-Time Fees	Total One-Time	\$ 2,326.38
Year-End Fees	Total Year-End	\$ 1,226.00
Total Yearly Fees (Annualized)	Total Per Year	\$ 11,412.00

*Annualized Fees do not include Payroll Delivery Charges

*Monthly fees based on # of Active Employees

**Plus sales tax if applicable

THE PAYLOCITY SERVICES COVERED BY THIS AGREEMENT
ARE PROVIDED IN ACCORDANCE WITH THE TERMS
AND CONDITIONS OF THIS AGREEMENT

Paylocity Associate	Date
	9/2/2019
Rebecca Caruso 1440 American Lane Schaumburg, IL 60173	

Client Authorization
Client Name (Print)
Town of Schodack 265 Schuurman Road Castleton, NY 12033