GENESEE COUNTY PLANNING BOARD REFERRALS
NOTICE OF FINAL ACTION

GCDP Referral ID	**T-09-BAT-07-23**
Review Date	**7/13/2023**
Municipality	**BATAVIA, T.**
Board Name	**PLANNING BOARD**
Applicant's Name	**Genesee Biogas LLC**
Referral Type	**Site Plan Review**
Variance(s)	
Description:	**Site Plan Review to construct a new bio-gas plant at an existing agri-business industrial park.**
Location	**W Ag Park Dr., Batavia**
Zoning District	**Industrial Park (IP) District**

PLANNING BOARD RECOMMENDS:

WITHDRAWN

EXPLANATION:

The referral has been withdrawn per the Town.

Felice A. Stamm

Director

July 13, 2023

Date

If the County Planning Board disapproved the proposal, or recommends modifications, the referring agency shall NOT act contrary to the recommendations except by a vote of a majority plus one of all the members and after the adoption of a resolution setting forth the reasons for such contrary action. Within 30 days after the final action the referring agency shall file a report of final action with the County Planning Board. An action taken form is provided for this purpose and may be obtained from the Genesee County Planning Department.

SEND OR DELIVER TO:
GENESEE COUNTY DEPARTMENT OF PLANNING
3837 West Main Street Road
Batavia, NY 14020-9404
Phone: (585) 815-7901

DEPARTMENT USE ONLY:
GCDP Referral # T-09-BAT-07-23

RECEIVED
Genesee County
Dept. of Planning
7/6/2023

* GENESEE COUNTY * PLANNING BOARD REFERRAL

Required According to:
GENERAL MUNICIPAL LAW ARTICLE 12B, SECTION 239 L, M, N
(Please answer ALL questions as fully as possible)

1. REFERRING BOARD(S) INFORMATION

Board(s) Town of Batavia Planning Board
Address 3833 West Main St Rd
City, State, Zip Batavia, NY 14020
Phone (585) 343 - 1729 Ext. 238

2. APPLICANT INFORMATION

Name Genesee County Economic Developement Center
Address 99 Med Tech Drive Suite 106
City, State, Zip Batavia, NY 14020
Phone (585) 343 - 4866 Ext. 11 Email

MUNICIPALITY: ☐ City ■ Town ☐ Village of Batavia

3. TYPE OF REFERRAL: (Check all applicable items)

- ☐ Area Variance
- ☐ Use Variance
- ☐ Special Use Permit
- ■ Site Plan Review
- ☐ Zoning Map Change
- ☐ Zoning Text Amendments
- ☐ Comprehensive Plan/Update
- ☐ Other:

Subdivision Proposal
- ☐ Preliminary
- ☐ Final

4. LOCATION OF THE REAL PROPERTY PERTAINING TO THIS REFERRAL:

A. Full Address Ag Park Drive West
B. Nearest intersecting road Ellicott
C. Tax Map Parcel Number 20.-1-108.1
D. Total area of the property 19.7 acres Area of property to be disturbed 12 acres +/-
E. Present zoning district(s) Industrial Park

5. REFERRAL CASE INFORMATION:

A. Has this referral been previously reviewed by the Genesee County Planning Board?

■ NO ☐ YES If yes, give date and action taken

B. Special Use Permit and/or Variances refer to the following section(s) of the present zoning ordinance and/or law

Town of Batavia Zoning Code section 235-29

C. Please describe the nature of this request Construction of a renewable gas facility (bio-gas plant)

6. ENCLOSURES – Please enclose copy(s) of all appropriate items in regard to this referral

- ■ Local application
- ■ Site plan
- ☐ Subdivision plot plans
- ■ SEQR forms
- ☐ Zoning text/map amendments
- ■ Location map or tax maps
- ■ Elevation drawings
- ■ Agricultural data statement
- ☐ New or updated comprehensive plan
- ☐ Photos
- ☐ Other:

7. CONTACT INFORMATION of the person representing the community in filling out this form (required information)

Name Matthew Mahaney Title CEO Phone (585) 343 - 1729 Ext. 238
Address, City, State, Zip 3833 West Main St Rd Batavia, NY 14020 Email mmahaney@townofbatavia.com

PINEWOODS ENGINEERING, P.C.
www.pinewoodsengineering.com

July 3, 2023

Building & Zoning Department
Town of Batavia
3833 West Main Street
Batavia, New York 14020

RE: Application for Site Plan Approval
Genesee Biogas, Genesee Valley Agri-Business Park

Dear Mr. Lang:

On behalf of our client Genesee Biogas, LLC, who is the applicant for the proposed Genesee Biogas project; we are submitting this application to begin the Site Plan review process with the Town of Batavia Planning Board for the proposed Genesee Biogas project. Previous documents were submitted to allow the Town Zoning Board of Appeals to proceed with reviewing the project for a conditional area variance for tank height. On June 19, 2023 that board voted to allow a maximum 83.5-ft building/tank height for this site. This application to begin the County and Town SEQR reviews and preliminary site plan review for the overall project includes the following:

1. Town of Batavia Building & Zoning Application, for Site Plan Approval
2. Environmental Assessment Form (Long EAF)
3. EAF Supplemental Report
4. Ag Data Statement (for consideration of entire project)
5. Preliminary Site Development Plans, dated 6/23/23 (printed: 3 full-size and 1 half-size; and 1 electronic copy)
6. Building & Tanks Floor Plan & Elevation Drawings (printed: 3 full-size and 1 half-size; and 1 electronic copy)
7. Colored renderings used for 6/19/23 ZBA presentation (printed: 3 copies at 11”x17”)

We respectfully request that the Town forward this application to the Genesee County Planning Board by July 6, 2023 so the project may be considered at their July 13, 2023 meeting date. We also request to have the project added to the Town of Batavia Planning Board’s July 18, 2023 agenda. Please contact me with any questions, or if you require any additional information.

With regards,

PINEWOODS ENGINEERING, P.C.
Sara L. Gilbert
Sara Gilbert, P.E., LEED AP
President/Senior Civil Engineer

CC. CH4 Biogas LLC w/attachments

Building and Zoning Application Permit No._____

Town of Batavia 3833 West Main Rd. Batavia NY 14020 PH. 585-343-1729

Date 6 / 29 / 23 Zone IP Flood Zone_____ Wellhead Protection _____ Corner Lot_____

New Construction ☒ Fence ☐ Pond ☐ Sign ☐ Alteration(s)☐ Addition ☐ Demolition ☐

Accessory Bldg. ☐ Mobile Home ☐ Fill Permit ☐ Home Occupation☐ Land Separation ☐ Site Plan Approval ☒

Special Use Permit ☐ Temporary Use ☐ Subdivision ☐ Zoning Variance Request ☐ Other ☐ Specify:_____

Tax Map No. 20.-1-108.1

Owners Name Genesee County Economic Development Center Phone No. (585) 343-4866 x11

Address 99 MedTech Drive, Suite 106 Project Road Width 60 ft

Applicants Name Genesee Biogas, LLC Project Address 30 Lakewood Circle North

E Mail Address ltoretta@ch4biogas.com Phone No (203) 869-1446

Description of Project: Construction of a renewable gas facility (biogas plant) for the purpose of digesting organic wastes to produce renewable natural gas (RNG) and/or electricity and heat.

Existing Use Vacant Land/Agricultural Proposed Use Agricultural

Estimated Cost Building $500,000 Plumbing $100,000 Mechanical $100,000 Miscellaneous $300,000

SEQR CLASSIFICATION Type 1 ☐ Type 2 ☐ Unlisted ☐

Review completed by Planning Board ☐_____ Zoning Board of Appeals ☐_____

Permit Fee $_____ Application Date ____ /____ /____ Permit Expires On ____ /____ /____

Issuing Officer _____ Date____ /____ /____

IN SIGNING THIS DOCUMENT I HEARBY GIVE THE RIGHT OF AN ON SITE INSPECTION TO THE TOWN OF BATAVIA CODE ENFORCEMENT OFFICIAL OR THEIR DESIGNE. ALL PROVISIONS OF LAWS AND ORDINANCES GOVERNING THIS TYPE OF WORK WILL BE COMPLIED WITH WHETHER SPECIFIED HEREIN OR NOT. THE GRANTING OF A PERMIT DOES NOT PRESUME TO GIVE AUTHORITY TO VIOLATE OR CANCEL THE PROVISIONS OF ANY OTHER STATE OR LOCAL LAW REGULATING CONSTRUCTION OR THE PREFORMANCE OF CONSTRUCTION.

I, Lauren Toretta, as Owner or Authorized Agent hereby declare that the statements and information on the foregoing application are true and accurate, to the best of my knowledge.

Lauren Toretta _____ July 3, 2023

Signature of Owner or Authorized Agent Date

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 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Genesee Biogas Facility		
Project Location (describe, and attach a general location map): Genesee Valley Agricultural Business Park, 20.-1-108.1		
Brief Description of Proposed Action (include purpose or need): Construction of a renewable gas facility (biogas plant) consisting of: two digesters, a gas storage tank, and associated equipment for the purpose of digesting organic wastes to produce renewable natural gas (RNG) and/or electricity and heat. A utility corridor consisting of waste forcemain lines, electrical lines and water lines will run from each of the main waste stream plants (i.e. O-AT-KA, HOOD, etc.) to the facility. A small portion of the waste stream will be received by truck delivery. The facility will consist of a series of tanks, infrastructure, heat exchangers and buildings including a 18,000 s.f. receiving and unloading building. A new commercial driveway is proposed to W. Ag Park Drive.		
Name of Applicant/Sponsor: Genesee Biogas LLC	Telephone: 203-869-1446 E-Mail: ltoretta@ch4biogas.com	
Address: 30 Lakewood Circle North		
City/PO: Greenwich	State: CT	Zip Code: 06830
Project Contact (if not same as sponsor; give name and title/role): Lauren Toretta, President CH4 Biogas LLC	Telephone: 203-869-1446 E-Mail: same as applicant	
Address: same as applicant		
City/PO: same as applicant	State:	Zip Code:
Property Owner (if not same as sponsor): Genesee County Economic Development Center (current, Sponsor-future projected owner)	Telephone: 585-343-4866 x11 E-Mail: csuozzi@gcedc.com	
Address: 99 MedTech Drive, Suite 106		
City/PO: Batavia	State: NY	Zip Code: 14020

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees ☐Yes ☑No		
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	SEQR Determination & Site Plan Approval	July 7, 2023
c. City, Town or Village Zoning Board of Appeals ☑Yes ☐No	Area Variance for Bldg./Tank Ht.	83.5 ft variance granted on 6/19/23 condition on lead agency completing SEQR
d. Other local agencies ☐Yes ☑No		
e. County agencies ☑Yes ☐No	Planning Board Recommendation for Agricultural District Development and Site Plan, Health Dept.	May 1, 2023 (variance only)/July 7, 2023
f. Regional agencies ☐Yes ☑No		
g. State agencies ☑Yes ☐No	NYSDEC - Stormwater, Solid Waste & Air Quality permit, Historic Preservation	July 31, 2023 Historic Preserv. 'No Impact' given on 6/2/
h. Federal agencies ☐Yes ☑No		

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes ☑No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐Yes ☑No

iii. Is the project site within a Coastal Erosion Hazard Area? ☐Yes ☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☑Yes ☐No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☑Yes ☐No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☑Yes ☐No

If Yes, identify the plan(s):

Genesee County Economic Development Center

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☑No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
Industrial Park, Agricultural district

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? Batavia School District

b. What police or other public protection forces serve the project site?
Town of Batavia services

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

d. What parks serve the project site?
N/A

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)? Agricultural/Industrial

b. a. Total acreage of the site of the proposed action? ±19.7 acres
b. Total acreage to be physically disturbed? ±12.0 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? ±19.7 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: _____

f. Does the project include new residential uses? ☐ Yes ☑ No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase	_____	_____	_____	_____
At completion of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? ☑ Yes ☐ No

If Yes,

i. Total number of structures 1

ii. Dimensions (in feet) of largest proposed structure: 30 height; 115 width; and 160 length

iii. Approximate extent of building space to be heated or cooled: ~18,000 square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☐ Yes ☑ No

If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☐ Other specify:

_____

iii. If other than water, identify the type of impounded/contained liquids and their source.

_____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

_____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) ☐ Yes ☑ No

If Yes:

i .What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

_____

_____

i*v.* Will there be onsite dewatering or processing of excavated materials? ☐ Yes ☐ No

If yes, describe. _____

_____

v. What is the total area to be dredged or excavated? _____acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? ☐ Yes ☐ No

ix. Summarize site reclamation goals and plan: _____

_____

_____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐ Yes ☑ No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

_____

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 additions 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: 200 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: Town of Batavia/Agri-Business Park
- 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: extend service lateral from main in W. Ag Park Drive (north of project site)
- Source(s) of supply for the district: Town of Batavia/MCWA

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: The project will also look to utilize O-AT-KA waste-process water for non-potable water demands

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: ±140,000 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): digestate from processing of food grade organic wastes

_____

iii. Will the proposed action use any existing public wastewater treatment facilities? ☑Yes ☐No

If Yes:

- Name of wastewater treatment plant to be used: City and Town of Batavia WWTP
- Name of district: City and Town of Batavia
- 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

- Do existing sewer lines serve the project site? ☑ Yes ☐ No
- Will a line extension within an existing district be necessary to serve the project? ☑ Yes ☐ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

construct forcemain to connect with existing City sewer infrastructure

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐ Yes ☑ No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

wastewater will be treated for TSS, BOD and Phosphorus before discharge to City/Town plant and/or used as fertilizer at local farms

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☑ Yes ☐ No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or ±3.5 acres (impervious surface)

_____ Square feet or 19.7 acres (parcel size)

ii. Describe types of new point sources. pipes and/or swales for stormwater conveyance

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

To new onsite stormwater management facilities (for filtering, treatment) and then to existing stormwater management basins at park, discharge from basin to Ag Park/Adjacent properties - per Ag Park Design

- If to surface waters, identify receiving water bodies or wetlands: _____
- Will stormwater runoff flow to adjacent properties? ☑ Yes ☐ No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☑ Yes ☐ No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☑ Yes ☐ No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

heavy equipment and delivery vehicles

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

none

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

plant biofilter, natural gas fired IC engine driven power generation and natural gas fired boiler.

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☑ Yes ☐ No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐ Yes ☑ No

ii. In addition to emissions as calculated in the application, the project will generate:

- 25 Tons/year (short tons) of Carbon Dioxide (CO_2)
- 4 Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____ Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____ Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

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): 5000

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): All methane will be injected to a natural gas pipeline or combusted to generate electricity or flared, the project will not produce methane emissions.

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: 5000 MWh/year

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

On-site combustion

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:

- Monday - Friday: daylight hours
- Saturday: as needed
- Sunday: as needed
- Holidays: as needed

ii. During Operations:

- Monday - Friday: 24 hrs
- Saturday: 24 hrs
- Sunday: 24 hrs
- Holidays: 24 hrs

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☐ Yes ☑ No

If yes:

i. Provide details including sources, time of day and duration:

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☐ No

Describe:

n. Will the proposed action have outdoor lighting? ☑ Yes ☐ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

Minimal outdoor lighting for security purposes only, mostly door-mount fixtures, aimed down, minimal off-site light spillage.

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe:

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☑ Yes ☐ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:

Waste receiving and processing operations will be enclosed. Air from areas with the potential to produce odors (receiving tanks and areas within organics processing building) will be filtered through a two-stage biofilter. Operators are trained in odor monitoring.

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities:

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☑ Yes ☐ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: 2-3 tons per month (unit of time)
- Operation : 2000 tons per year (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: N/A
- Operation: process by-products are recycled when possible

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: local contract waste hauler to certified landfill
- Operation: local contract waste hauler to certified landfill

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:

_____

_____

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces		3.5	+3.5
• Forested			
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	19.7	13.2	-5.5
• Agricultural (includes active orchards, field, greenhouse etc.)			
• Surface water features (lakes, ponds, streams, rivers, etc.)		1.0	+1.0
• Wetlands (freshwater or tidal)			
• Non-vegetated (bare rock, earth or fill)			
• Other Describe: Lawn		2.0	+2.0

c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☑ No

i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☐ Yes ☑ No

If Yes,

i. Identify Facilities:

_____

_____

e. Does the project site contain an existing dam? ☐ Yes ☑ No

If Yes:

i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____

iii. Provide date and summarize results of last inspection:

_____

_____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Has the facility been formally closed? ☐ Yes ☐ No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

_____

_____

iii. Describe any development constraints due to the prior solid waste activities: _____

_____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

_____

_____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐ Yes ☑ No

If Yes:

i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☐ No

☐ Yes – Spills Incidents database Provide DEC ID number(s): _____

☐ Yes – Environmental Site Remediation database Provide DEC ID number(s): _____

☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures:_____

_____

_____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☐ Yes ☑ No

If yes, provide DEC ID number(s): _____

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

_____

_____

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? >6 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:

Palmyra gravelly loam (PhA)	65 %
Palmyra gravelly loam (PhB)	35 %
	%

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

e. Drainage status of project site soils:

☑	Well Drained:	100 % of site
☐	Moderately Well Drained:	% of site
☐	Poorly Drained	% 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 N/A Classification _____
- Lakes or Ponds: Name N/A Classification _____
- Wetlands: Name N/A Approximate Size _____
- 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, Primary Aquifer

m. Identify the predominant wildlife species that occupy or use the project site: None

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No

If Yes:

i. Describe the habitat/community (composition, function, and basis for designation): _____

ii. Source(s) of description or evaluation: _____

iii. Extent of community/habitat:

- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐ Yes ☑ No

If Yes:

i. Species and listing (endangered or threatened): _____

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No

If Yes:

i. Species and listing: _____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☑ No

If yes, give a brief description of how the proposed action may affect that use: _____

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☑ Yes ☐ No

If Yes, provide county plus district name/number: GENE001

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☑ No

i. If Yes: acreage(s) on project site? _____

ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No

If Yes:

i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature

ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No

If Yes:

i. CEA name: _____

ii. Basis for designation: _____

iii. Designating agency and date: _____

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☐ Yes ☑ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District

ii. Name: _____

iii. Brief description of attributes on which listing is based:

_____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☑ Yes ☐ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☑ No

If Yes:

i. Identify resource: _____

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

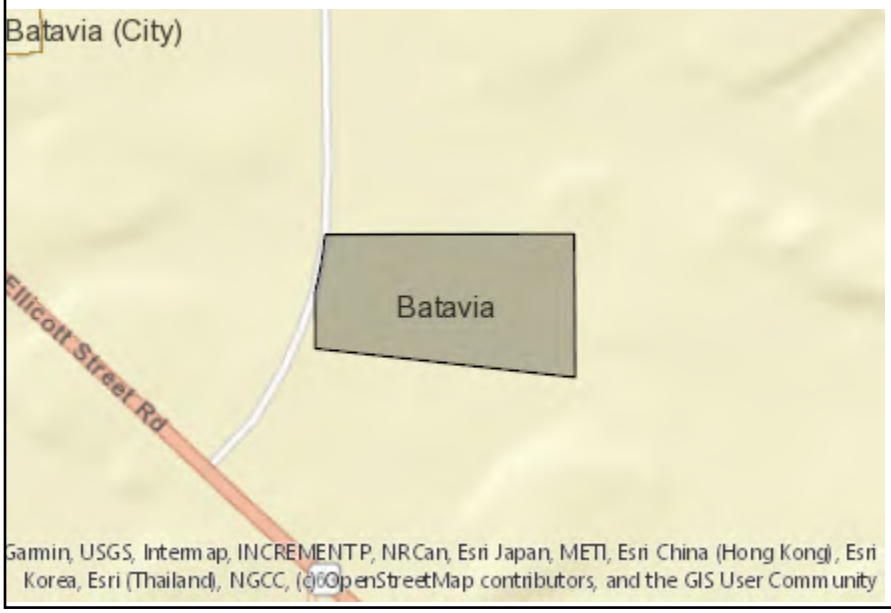
Applicant/Sponsor Name Genesee Biogas LLC Date July 3, 2023

Signature Lauren Toretta Title President

PRINT FORM

EAF Mapper Summary Report

Thursday, April 20, 2023 3:50 PM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.j. [100 Year Floodplain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.k. [500 Year Floodplain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.l. [Aquifers]	Yes
E.2.l. [Aquifer Names]	Principal Aquifer, Primary 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]	Yes
E.3.a. [Agricultural District]	GENE001
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	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

SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT REPORT

GENESEE BIOGAS

West Ag-Park Road, Agri-Business Industrial Park
Town of Batavia, Genesee County
Date: June 23, 2023

Prepared By:

Genesee Biogas, LLC
30 Lakewood Circle North
Greenwich, CT 06830

&

Pinewoods Engineering, PC
42 Aston Villa
North Chili, NY 14514

Table of Contents

Appendices

APPENDIX A

-Facility Mapping
-NYSDEC Environmental Resource Map
-FIRM Map
-NRCS Web Soil Survey
-NYS Office of Parks, Recreation and Historic Preservation 'No-Impact' letter

I. Introduction

Genesee Biogas, LLC is proposing to develop a ±20-acre parcel within the Agri-Business Industrial Park ("Ag-Park") owned by the Genesee County Economic Development Center. The parcel is located on the east side of West Ag-Park Drive approximately 1,000-ft north of the intersection of W. Ag-Park Drive and Ellicott Street Road (State Route 63) in the Town of Batavia. The Project includes the facility itself; associated pipe infrastructure process delivery from tenants in the Ag-Park; and utility infrastructure improvements. The facility is designed specifically to serve the needs of current and future tenants of the Ag-Park and will contribute to the overall sustainability and viability of the Agri-Business Park and the region while protecting the environment.

When the Ag Park was developed a complete State Environmental Quality Review (SEQRA) was done to evaluate all potential adverse environmental impacts of the Ag-Park and its intended development. A report entitled "Supplemental Environmental Assessment Information O-AT-KA Agri-Business Industrial Park" dated December 2004, last revised March 2005 was prepared by Clark Patterson Associates. This report contains descriptions and reports of due-diligence conducted during the Ag-Park development to conclude that it would not have any adverse environmental impacts. That report is referred to herein as the "Ag-Park EA Report" and a copy of this report is included in Appendix B.

The intent of this report is to identify existing environmental conditions at the Ag-Park which are required to be considered for a SEQRA review of this Project and provide information to assess how the project complies with the previous SEQRA analysis and any potential adverse environmental impacts associated with the unique details of this project to assist in the final SEQRA determination.

II. Project Overview

Genesee Biogas, LLC proposes to design, build and operate (the "Project") a renewable gas facility (the "Biogas Plant") called 'Genesee Biogas'. Biogas plants produce renewable green energy and reduce the emission of greenhouse gases such as methane and carbon dioxide. The Biogas Plant will anaerobically digest organic waste to produce biogas which will subsequently be upgraded to renewable natural gas ("RNG") for pipeline injection. The Project may alternatively use biogas to produce electricity and heat. The design of the Biogas Plant includes several unique features:

- The process is designed to enclose liquid and gas flows from input to output
- The design has the ability to use pasteurization to eliminate pathogens
- The advanced technology for seeding and operation allows it to operate on organic waste without supplemental of manure
- Source material may be delivered by pipeline thus reducing truck traffic for Ag-Park tenants

The design provides for 24-hr monitoring and automatic operation. The proposed siting of the Biogas Plant is close to the middle of the Ag-Park adjacent to electrical transmission lines and wooded parcel for screening. The location is within an industrial development area intended for this type of use and away from residential development.

The proposed project offers many benefits to the community:

1. Utilizing existing waste materials from the region to produce renewable energy,
2. De-packaging and processing of unsalable food products reducing disposal of food waste in landfills and increasing the recycling of packaging material,
3. Facilitating recycling of nutrients through land application as an alternative to the purchase and introduction of additional nutrients (principally Phosphorus and Nitrogen) to area soils,

4. Reducing greenhouse gas emissions and lowering the carbon footprint of regional food processing.

Additional benefits from the Project may include:

1. Improving the operating capacity of the City wastewater treatment plant by processing waste that is currently delivered to the plant without pre-treatment thus reducing both volume and loading.
2. Increasing marketability of Ag-Business Park development by offering incoming businesses an affordable and reliable waste disposal option.
3. Creating local jobs and helping to sustain the largest employers in the County by providing economical and environmentally sound solutions to their organic waste management.

III. Permitting & Community Services

A. Government Approvals

Construction and operation of the Facility will require several approvals from local, regional and state agencies. The following permits and approvals are anticipated to be required:

Town of Batavia: Planning Board & Engineering

- SEQR Negative Declaration
- Site Plan Approval
- Building Permit

Town of Batavia: Zoning Board

- Area Variance for Tank Height *(Completed on 6/19/2023)*

Genesee County: Planning Department

- Site Plan Referral Recommendation
- Area Variance Referral Recommendation *(Completed on 5/11/2023)*

Genesee County: Health Department

- Approval of public water connection backflow prevention device

New York State: Department of State Historic Preservation (SHPO)

- 'No-Impact' Determination *(Received 6/2/2023)*

New York State: Department of Environmental Conservation (NYSDEC)

- Solid Waste Management Facility Permit
- Construction Stormwater Discharge Permit
- Air Permit

B. Zoning

The proposed parcel is currently zoned 'IP – Industrial Park District'. Permitted uses within this district include "Recyclables Handling and Recovery Facilities" The Project has been designed to meet the zoning requirements for this district but will required a variance for building height. which was granted on June 19, 2023. The digester tanks have been located in a low area on the site and a distance from the road and to further reduce their perceived height. According to the Town of Batavia Zoning Map dated November 17, 2021; the parcel is not located within a flood plain or wellhead protection zone.

C. Community Services

The Project will benefit the community by providing local employment, expanding public infrastructure, improving the areas carbon footprint and increasing the viability of the Ag-Park and its current and future tenants who provide employment in the community. The Project will provide these benefits without increasing demands on local schools, parks, or public safety.

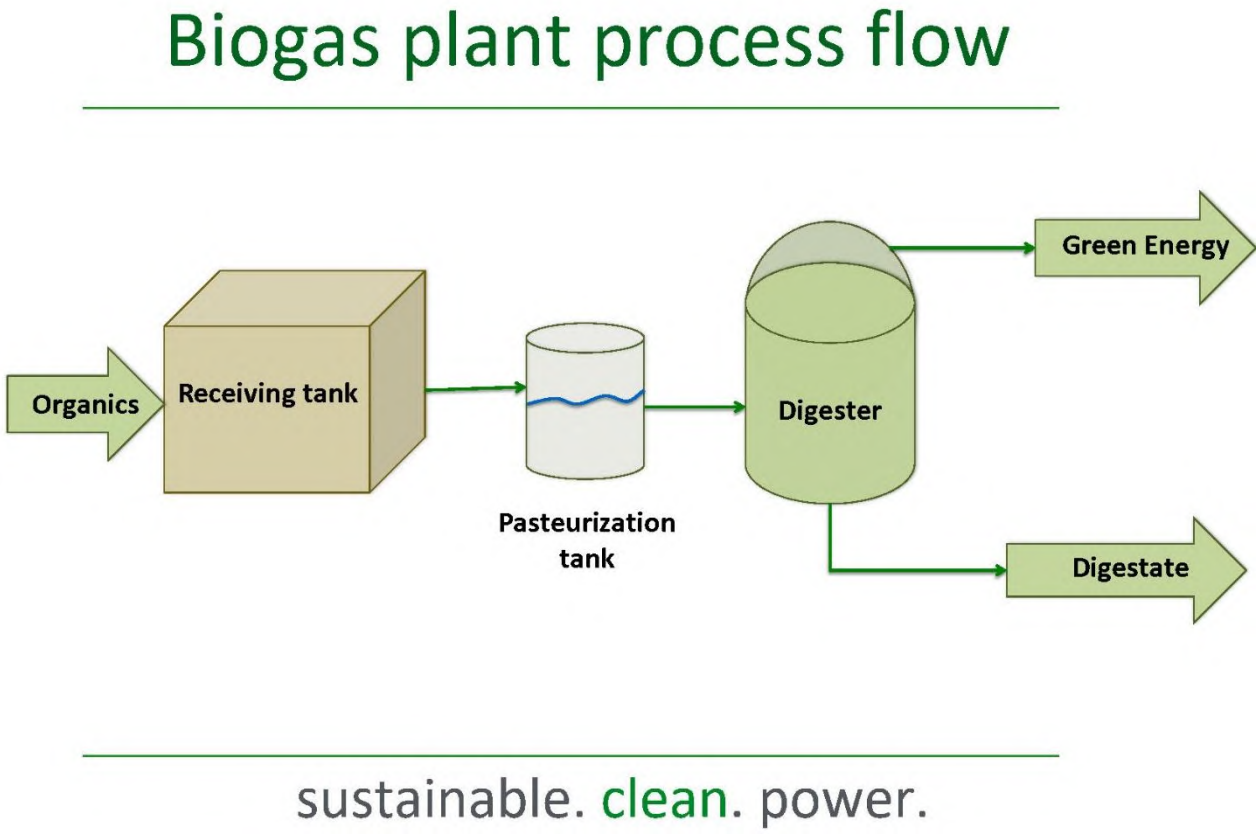
IV. Detailed Process and Operation Description

A. Facility Process and Equipment

A general overview of the process and main components specific to the Genesee Biogas facility are discussed in this section. Greater detail on specific components of the process such as incoming and outgoing waste streams, etc. is provided in subsequent sections.

The 'biogas process' (1) receives and prepares organic waste for anaerobic digestion, (2) uses specific technology to enhance and accelerate the natural process of decomposition and methane production (3) captures and stores the biogas produced (4) converts the biogas gas to renewable natural gas (RNG) or renewable electricity, (5) provides for further treatment to the digestate as needed and recycling of packaged material and organics.

Figure #1: Biogas Process Overview



(1) Food manufacturing companies such as O-AT-KA, Upstate Niagara, and HP Hood produce liquid organic waste as part of their processes for producing food and beverage products. Two (2) steel tanks, 36-ft in diameter by 41-ft in height, will be used to receive and store incoming liquid material. There is also one additional steel tank, 36-ft in diameter by 41-ft in height, to be used for mixing or receiving. Most liquid organic waste from the Ag-Park will be pumped to the Biogas Plant.

Food processors occasionally have a bad run of product, mislabeled product, or product which due to other factors is determined not suitable to go to market. This material would be delivered by vehicle. Specialized de-packaging equipment located within the receiving building would be used to separate the organic material from the packaging. The organic material would go into the digestion process and the packaging material (i.e. cardboard, cans, plastic) would be recycled to the greatest extent possible.

A ±18,000 S.F. prefabricated metal building is proposed as part of the facility. The building provides a location for truck unloading and de-packaging. The entrance to the building is oriented to the north towards the wooded buffer. The de-packaging building will also contain offices and bathrooms/washrooms facilities for employees and house some of the process equipment.

Air from specific de-packaging areas and the tanks is piped to a biofilter. The biofilter is a two-stage air processing feature to capture and biologically degrade compounds in the air which may be associated with unpleasant odors.

The biofilter tank is a 30-ft by 60-ft rectangular tank built partially below grade. A blower from the specific de-packaging areas directs air to the scrubber and then to the biofilter which consists of a lattice decking to support odor absorbing material.

(2) As needed, the incoming waste can be heated to approximately 150 ^{o} F for pasteurization to remove pathogens. The pasteurized biomass is directed by enclosed pipeline to one-of-two digester tanks. The digester tanks contain a large agitation “mixer” that slowly stirs the biomass. The tanks are insulated to maintain the optimal temperature for methane production. The system is closely monitored through a ‘Supervisory Control and Data Acquisition’ (“SCADA”) system which provides 24-hr process monitoring that can be accessed remotely.

Three (3) tanks, 35-ft in height are used for the pasteurization process. Pumps for directing biomass through the process are typically located within containers. The digester tanks are steel tanks with stainless steel in the gas section, each approximately 72-ft in diameter and 83.5-ft in height. The tank height vs. diameter ratio is specifically calculated for optimum mixing and biogas production.

(3) After digestion, the material is transferred to a post digestion tank which allows for further release of biogas as the biomass cools. The tank has an expandable inner membrane roof for holding biogas and regulating supply of biogas to downstream processes. The steel post digestion tank is approximately 80-ft in diameter and 31-ft in height.

(4) The Biogas Plant is equipped with an enclosed flare to safely dispose of surplus biogas during periods of equipment down time for maintenance. The flare is approximately 24-ft in height and has an enclosed, low-temperature flame. The pilot flame uses natural gas, and the flare has its own control system. The flare is a safety measure required by the NYSDEC and flare specifications meet EPA requirements. The flare has been located on the north side of the site where it will be shielded from view.

(5) The captured biogas can be converted into renewable natural gas (RNG) or electrical power, and heat. The primary use of the biogas is expected to be the production of RNG which can be

injected into National Fuel's gas transmission lines. Biogas requires a refinement process to meet specifications for pipeline injection. The refinement process will be a proprietary system designed and manufactured by a qualified vendor with proven technology. The site layout currently shows a 20-ft by 55-ft "gas cleaning" area to indicate where this equipment is intended to be located.

A more technical explanation of the "gas cleaning" is:

For gas cleaning and compression, the plan is to use a membrane upgrading system with pretreatment for H2S and moisture. A reputable vendor such as: Pentair, Air Liquide, or DMT will design, manufacture and provide the system. The system will upgrade the biogas, removing moisture, CO2, O2, N2 and other impurities to produce a concentrated methane gas that meets the gas quality specifications required by the pipeline operator. The vendor will also provide a compressor and any post-air treatment required.

Carbon Dioxide and Sulfur are captured so they can be recycled. A natural gas fired CHP generator may be installed to provide electricity and heat for on-site use. The generator will be enclosed.

(6) The by-product of the anaerobic digestion process is a liquid digestate and is permitted by EPA. The project will have capability to land apply digestate as an organic "pathogen-free" fertilizer or pre-treat digestate to reduce TSS, BOD and Phosphorus levels for discharge to the Batavia WWTP.

For land application of digestate, Genesee Biogas will permit and build *(as a separate project under a separate application)* or utilize existing off-site storage lagoons and apply the digestate to permitted land. For pre-treatment, digestate will be transferred from the post digester "unload tank" and directed to an effluent pretreatment system before discharge to the City of Batavia's wastewater collection system. The digestate pretreatment system will be a proprietary system designed and manufactured by a qualified vendor with proven technology in this field. The site layout shows an area intended for location of this process.

Pre-treatment produces a solids by-product that can be utilized as fertilizer or animal bedding.

One steel tank, the "unload tank", 36-ft in diameter by 41-ft in height is proposed as an equalization tank to hold these solids prior to off-site beneficial reuse.

B. <u>Requirements and Providers of Accepted Source Material</u>

The project will not accept or process human waste such as municipal WTP liquid, sludge or septage. Acceptable source material will be organic, non-hazardous, food grade organic waste.

- O-AT-KA, Upstate Niagara and HOOD operate facilities in the Ag-Park that produce liquid dairy processing residuals which may be delivered by pipeline directly to the Biogas Plant receiving tanks. The Biogas Plant would accept material in a similar fashion from future food processors in the Ag-Park. This method is anticipated to be the primary form of source material delivery to the facility.
- The facility will have the capacity to accept liquid food processing residuals from processors outside the Ag-Park, fats oil and grease (FOG), unsalable packaged foods and source separated food waste (SSO) from sources such as local supermarkets, schools, hospitals, etc. The project intends to prioritize and maintain sufficient capacity at the facility to service increased production from O-AT-KA and current or future Ag-Park tenants.

C. Project By-Product Waste Volume & Composition

It is anticipated that the project will produce approximately 100K gallons or more per day liquid digestate, or liquid by-product, which will be handled as described above. The by-product is rich in nutrients such as Nitrogen, Phosphorous and Potassium. The composition of these nutrients vary with the incoming feedstock and regular sampling and testing will be performed.

The facility may generate two (2) or more tons per day of solids that can be used as an organic fertilizer or animal bedding.

The de-packaging operation will vary and may produce up to approximately 10 tons per day of material which would be recycled to the greatest extent feasible.

D. User agreement in-place for waste stream

The by-product of the anaerobic digestion process is a called digestate. The project will have multiple options to dispose of this by-product. These include to land application as an organic "pathogen-free" fertilizer or to pre-treat the digestate to reduce TSS, BOD and Phosphorus levels before discharge to the Batavia WWTP.

For land application of digestate, the project will permit and build or utilize existing off-site storage lagoons and apply the digestate to permitted land. This is a common and on-going practice with support from EPA and demand from farmers for a local fertilizer alternative.

For pre-treatment, digestate will be transferred from the post digester "unload tank" and directed to an effluent pretreatment system before discharge to the City wastewater collection system in accordance with the City's published limits and in line with EPA permits and agreements with the City.

Because of the buffering built in the Biogas Plant design, there is flexibility on timing of disposal to the City wastewater collection system to help balance the City's WWTP operation.

Priority will be given towards the beneficial reuse of any of the waste by-products, both solids and liquids. Any solids not used for agricultural purposes and de-packaging that can't be recycled will be disposed of in a landfill.

E. Methane Production

- Methane as RNG is the principal product of the Biogas Plant and is used for pipeline injection. During equipment maintenance or periods of over production, methane is flared as described above.
- The project has the potential to reduce greenhouse gas emissions by 25k tons per year

F. Operational Details

- The project is expected to employ approximately 6-10 FTE workers.
- The production of biogas is a continuous biological process. It is expected that the facility will be capable of receiving off-site material and exporting digestate 24 hours per day, 7 days per week.

G. Excavation & Impoundment

- The currently proposed project does not contain any significant impoundment of liquids through earthen berms. The stormwater management facility will have a minor berm of less

than 6-ft for the temporary retention of stormwater runoff however this berm height is below the threshold considered by the DEC for dam permitting.

- The site will not have excavations beyond those associated with the site preparation, grading, utility and foundation installations and stormwater management facility.

H. Decommissioning

- With proper maintenance the Biogas Plant will have a useful life of more than 50 years and continue to be valuable to Ag-Park tenants. The technology is designed for on-going operation and is typically transitioned to new operation to ensure its longevity as necessary.
- The operations of the Biogas Plant can be taken in-house by the Ag-Park tenants or another third-party operator can be hired.
- In the unlikely event that the facility would be closed, the value of stainless steel, steel and equipment would exceed the value of demolition.

V. Natural Resources

A. Land Resources

The site has moderate slopes with a low-point in the middle of the site and no significant discharge point off-site. However, the site does not have ponding issues because it is well-drained. According to the Ag-Park EA Report, the soils are mapped by the Genesee County Soil Survey as primarily Palmyra Series. These soils are well-drained and gravelly, formed in glacial outwash. Infiltration rates are typically high. North of the site is a wooded area with soils that contain fines and are poorly drained. The Ag-Park EA Report indicates that several test pits were completed which confirmed the soil survey with significant thickness of sand and gravel over a majority of the site. For the development of this Biogas Plant, a geotechnical engineer will be retained to perform a sub-soil investigation and report. The report will include recommendations for foundation and pavement design, an approximation of bedrock and groundwater depth, and an infiltration rate to use in the stormwater management facility design. The Genesee County Soil survey also indicates that depth to bedrock and groundwater is greater than 6-ft within the project area.

B. Water Resources

- **Surface Waters -** There are no surface waters on the parcel or directly adjacent to it. North of the project within the wooded area is a small unnamed tributary with no apparent outlet or connection. The project will not disturb or impact the wooded area north of the site and thus will not have an impact on surface waters.
- **Aquifers -** The site is located on a primary aquifer according to the NYSDEC map of primary aquifers. Primary aquifers are defined as “highly productive aquifers presently utilized as sources of water supply by major municipal water supply systems”. The Ag-Park EA Report indicates the Ag-Park contains unconsolidated sand and gravel soils, with a water table aquifer at approximately 10-20 feet below existing grade. Even though the site is not located with a Town wellhead protection overlay area, the site being mainly discharged through infiltration would be considered a contributor to the groundwater recharge of the aquifer.

  Aquifer protection was considered in the development of the project and is incorporated in several aspects of the design.

1. The liquid and gas processing are enclosed and contained to avoid the potential for organic waste source material to contact the ground and potentially the aquifer.
2. The process will dispose of residential type sanitary waste from bathrooms and hand sinks to a public sewer main instead of onsite septic system.
3. Stormwater runoff from the facility will be directed to a two-phase stormwater management facility. The first phase will include a permanent retention pool contained with a plastic liner designed to provide pre-treatment and extended treatment to stormwater runoff while preventing infiltration. The second part will include an infiltration basin designed to recharge the aquifer.

- **Floodplains -** According to the Ag-Park EA Report, portions of the Ag-Park are within the 100-year floodway fringe of Tonawanda Creek as established by the Flood Insurance Rate Map (Community Panel 360278 0015 B) for the Town of Batavia. The scale of this map is difficult to interpret in full detail, however it indicates that the flood areas are generally west of Shepard Road (West Ag Park Drive is not shown on the map) and directly around the unnamed tributary. The parcel does not appear to be located within the 100-year flood zone. This is further corroborated with the Town of Batavia Zoning Map dated November 17, 2021 which shows the parcel as not located within a floodplain overlay zone.
- **Wetlands -** According to the Ag-Park EA Report, the federal wetland map for the Batavia South quadrangle shows a Palustrine forested wetland (PF01E) mapped in the wooded portion of the site (which is located north of the Project parcel). On-site review for wetland soil characteristics and significant wetland vegetation did not identify wetland characteristics within the area mapped. The NYSDEC Environmental Resource Mapper also does not show the site as located with a federal or state wetland screening zone or state wetland buffer screening zone.

C. Endangered Species

According to the Ag-Park EA Report, the New York State Natural Heritage Program and US Fish and Wildlife Service were consulted regarding the potential for threatened or endangered species within the project site. Both agencies responded that there are no known occurrences with the State or Federal list of species. The NYSDEC Environmental Resource Mapper also does not show the site as located within a threatened or endangered species screening zone.

D. Agricultural Lands

According to the Ag-Park EA Report, the Ag-Park is entirely within Genesee County Agricultural District #8. Any projects proposed for within the Ag-Park must receive County Planning Board referral. Though the land is currently farmed, it is intended for industrial development by the Town and County.

E. Cultural Resources

A project application was submitted to the New York State Parks, Recreation and Historic Preservation Office of Historic Preservation (OPRHP). They reviewed the project and responded with the opinion that no properties, including archaeological and/or historic resources will be impacted by the project. A copy of this letter is included in Appendix A.

VI. Utility Infrastructure & Operation Considerations

F. Water

- The Biogas Plant requires minimal potable water usage, ~200 gal/day, for employee use in washrooms. This water can be sourced from the local, public water supply and would require that the water main be extended down Ag Park Drive to the Biogas Plant.
- Process water can be used for cleaning and washdown when needed and is estimated as 300-400 gal/day. It can be sourced from Ag-Park tenants or similar processors or from the public water supply.
- For fire protection, a new private-water service line is proposed along the driveway to serve a new private hydrant at the facility.

G. Liquid & Solid Wastes

- Process liquid waste and sanitary waste will be separated. Sanitary waste will be pumped into City WWTP through a forcemain. Process water will be recycled to the head of the Biogas Plant.
- Periodically there may be packaged by-product if de-packaging is required. These will be recycled when possible.
- The by-product of the anaerobic digestion process is a liquid digestate and is permitted by EPA. The project will have capability to land apply digestate as an organic "pathogen-free" fertilizer or pre-treat digestate to reduce TSS, BOD and Phosphorus levels for discharge to the Batavia WWTP.
- The composition of the digestate varies with the composition of the food grade feedstocks. Typically, the digestate has a high nutrient value that makes it valuable as a fertilizer or soil amendment. This material will be stored off-site at private, permitted lagoons for use during approved land application.

H. Drainage & Stormwater Management

- A small portion of the north-west corner of the existing site currently drains to the north and towards an existing swale/wetland area. The majority of the site drains to a low-point in the central part of the site that has no apparent offsite discharge point. The soils are understood to be sandy and have high infiltration capacity so it is assumed that current runoff from the site is completely infiltrated at this low-point. The proposed project site drainage has been designed to closely mimic existing conditions. Runoff will be collected in a series of culverts, swales and private on-site storm sewer system. A portion of the driveway discharge will sheet flow to adjacent swales that convey it to the north-west property corner. From there it continues in a swale to the north-east and into an existing wetland area. The majority of the drainage from the project area including the east end of the driveway, the parking and operation areas and areas around the tank will be directed to a stormwater management facility.
- Stormwater management at the site will be designed in compliance with the New York State Department of Environmental Conservation (NYSDEC) Stormwater Management Design Manual v2015 and the NYSDEC General Permit for Stormwater Discharges from Construction Activities (GP-0-20-001). The stormwater management facility is anticipated to be a combination of a Wet Pond and an Infiltration Basin. The wet pond will be lined to prevent infiltration and will consist of two pools; a forebay for pretreatment and a deep pool for longer settling. These pools will capture the first-flush of sediments and provide water

quality treatment. The wet pond will discharge to an infiltration basin. The infiltration basin will provide runoff volume reduction, water quality volume and aquifer recharge.

I. Air Emissions

- Air emissions including the flare are monitored under the EPA Air permit.
- The Biogas Plant is designed to not produce biogas or methane emissions because these are the primary sources of revenue as a renewable energy source.

II. Methane Generation

- The primary purpose of the Biogas Plant is to contain, clean and compress biogas for use as renewable energy.
- Biogas from anaerobic digestion is typically 65% methane.
- Methane as RNG is the principal product of the Biogas Plant and is used for pipeline injection. During equipment maintenance, methane maybe flared in accordance with the NYSDEC Air Permit.
- The project has the potential to reduce greenhouse gas emissions by 25k tons per year.
- It is estimated that the facility will produce 250,000 mcf of RNG annually.

III. Traffic

- It is estimated that initially the facility will receive approximately 60% of the source material from within the Ag-Park. It is expected that a majority of this material will be delivered by force main piping. On occasion material that requires de-packaging will be delivered by truck. Additional liquid material will be from sources outside of the Ag-Park and will be delivered by truck. These loads will be scheduled to have minimal impact on traffic and delivered during reasonable business hours. The trucks take approximately 20-30 minutes to weigh-in, unload material and weight-out. The site includes three truck loading spaces. Periodically, de-packaged by-product may be hauled to recycling or an offsite landfill as needed. Tanker trucks will haul the liquid digestate offsite to a lagoon for subsequent land application. These loads will be scheduled during reasonable business hours. The total anticipated initial daily truck traffic is anticipated as less than one truck an hour per day on daily average. The onsite receiving, mixing and unloading tanks create buffer in the system that allows for flexibility in truck scheduling. As the Ag-Park grows with new tenants who may provide source material and existing tenants expand their production resulting in greater quantities of source material, less material will be accepted from sources outside of the Ag-Park. The material received from within the Ag-Park is primarily delivered by pipeline so this would reduce the anticipated truck loads to the site.
  Vehicle traffic to the Biogas Plant will primarily be personnel and maintenance support and is not considered substantial enough to impact the surrounding region.

IV. The Ag-Park EA Report includes a traffic assessment for the full build-out of the Ag-Park and 52-acre O-AT-KA owned properties. The assessment is prepared by Fisher Associates and is dated 2004. The assessment focused on evaluating the transportation network at Ellicott Street Road and Cedar Street Road in the City of Batavia and for only one entrance to O-AT-KA. Therefore, the projected traffic generation and impacts may not be relevant to this project but some of the existing conditions described for Ellicott Street Road (NY Route 63) may be applicable. According to the assessment, NYS Route 63 has one-travel lane in each direction and is designated as a rural principal arterial. The roadway's annual average daily traffic (AADT) is listed as 8,300 and is a major trucking route between I-390 and the

Thruway. The posted speed limit in the vicinity of Ag-Park Drive is 45 MPH. The report later states that field counts determined approximately 20% of the two-way traffic on Route 63 is trucks or pick-up trucks.

Though this data is dated the overall picture of Route 63 being capable of handling a significant volume of traffic and a relatively high percentage of the traffic (±20%) being truck traffic likely still pertains. The vehicle traffic generated by the facility is negligible in the context of these numbers and reduction to existing truck traffic in the area would only be beneficial to public transportation infrastructure and truck stacking volumes on O-AT-KA's property.

L. Energy Demand

- It is estimated that the facility will produce 250,000 mcf of RNG annually and consume 60,000 mcf natural gas annually for onsite operations.
- The facility may have an on-site generator to provide electricity and heat for operations. It is estimated that 600 MWh per year could be required from the utility during generator down time.
- Natural gas will be supplied by National Fuels and electricity by NGRID.

M. Noise

- Controlling noise for the public is a priority for Genesee Biogas LLC and the manufactures that supply the equipment.
- Noise-producing processing equipment, like the engine and compressor, will be contained to dampen noise and vibration in compliance with EPA and DEC noise level requirements.

  DEC sound limits (6 CRR-NY 360.19 (j)) for non-vehicle use is measured at the property perimeter. The Biogas Plant is located a distance of 820-ft or greater to the West Ag-Park Road property line which is the most common point of contact between the facility and the public. To the north and south property lines are wooded buffers and electrical transmission lines that do not allow access to the public. To the east, noise-related process equipment, like the engine and compressor, is more than 300-ft from this property line.

  Since noise dissipates over distance, the location of the process equipment relative to the property line reduces the noise levels to well below the DEC sound limits for Suburban communities of 52-62dB. To note, the onsite noise is also minimal. The decibel level at 32ft from, or relatively just outside, the engine and compressor, is 65 decibels which is considered 'fairly quiet' as in the equivalent of average conversational speech and 75 decibels which is considered equivalent to a dishwasher, as specified by their manufacturers respectively.
- The design of the Biogas Plant includes several receiving and holding tanks which allow for more flexibility in truck scheduling. As such, truck noise will be mitigated by scheduling the delivery of loads during reasonable business hours. The site has also been designed to provide efficient loading and unloading systems on the north side of the building and site to minimize truck time on-site.

N. Odor

- The Genesee Biogas Plant will have several measures in-place to mitigate potential odors which is different from small, commonly seen digesters.
- The main factor which will mitigate smells is the primary use of organic food waste in the

system as opposed to incorporating manure into the source material. The food grade waste as a start does not have the strong smells associated with animal waste.

Another factor is that the liquid and gas process streams are enclosed from receiving to final digestate handling. By preventing air from being released, odors are minimized. This is different from the current biogas plant owned by Genesee Biogas' parent company CH4 Biogas which is located on a farm, not an entirely enclosed system and utilizes manure in its source material.

Another potential cause of odors is in the unloading of source material. The main factor in mitigating this is using force main for the majority of material deliveries extending the "enclosed" process. Liquid source material delivered by truck will be pumped directly into the receiving tanks through cam-lock fittings. For non-liquid material delivered by truck and for material requiring de-packaging, de-packaging will occur within the building. This portion of the building will utilize a forced air system to direct air to a biofilter system.

A biofilter is an air pollution control system that captures and biologically degrades air. The biofilter proposed for the Genesee Biogas site is a more sophisticated version of a standard biofilter because it will be a 2-stage verses single-stage system. The first stage utilizes two scrubbers for refined air quality and the second stage uses a filter media to biologically degrade air pollutants.

- The plant location on the subject parcel is set-back as far as possible from the West Ag-Park Drive and surrounding residents. This was intentionally done as a final mitigation measure for odor, noise and visibility to provide the greatest separation feasible from the Biogas operation.
- The NYSDEC closely monitors potential emissions into the air from processes or operations to comply with the Federal Clean Air Act. The Biogas Plant's compliance with this permit requires the following:

  -Recording air pollution control requirements
  -Tracking emissions and controls
  -Monitoring, testing and record keeping
  -Annual certification

O. Bulk Storage of Chemicals

- The Biogas Plant's primary material handling is for food-grade waste residuals. No bulk storage of chemicals is expected on site.
- Bulk use of chemicals is not part of regular, planned operation and any use of chemicals will be in line with industry standard and manufacture recommendation.

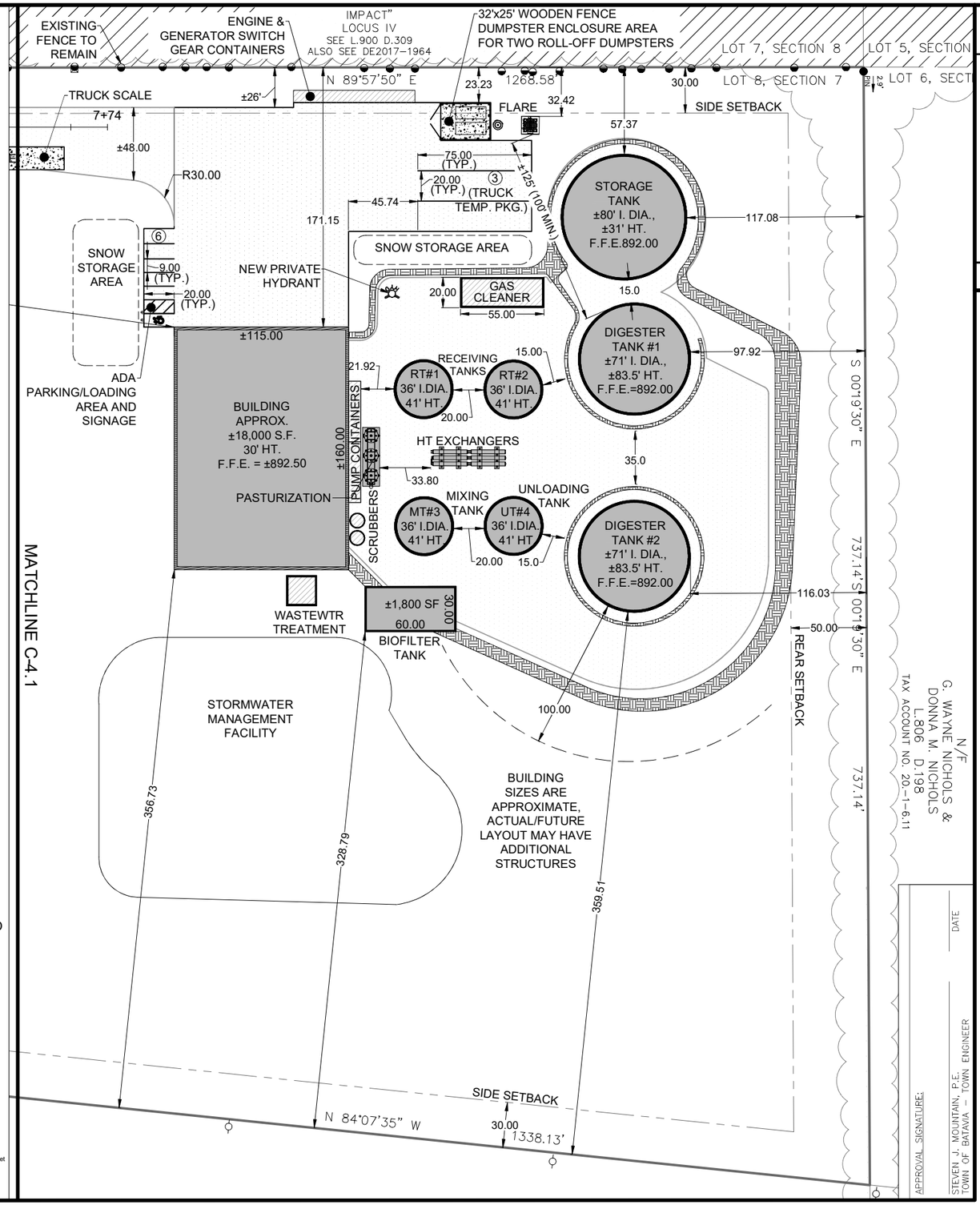
P. Solid Wastes

- The Biogas Plant system is a liquid system where the waste material is piped through a closed system. The primary waste material is food-grade waste residuals with a low percent solids.
- Should any de-packing be required, the resultant de-packaged by-product will be hauled to recycling or an offsite landfill as needed.

Q. Hazardous Wastes

- The anaerobic digestion process is a biological process using natural bacteria for the breakdown of organic, food grade wases.
- The Biogas Plant is not designed for the processing or handling of hazardous wastes.

APPENDIX A



TOWN OF BATAVIA ZONING ANALYSIS		
PARCEL ID: 20.-1-108.1		
ZONED: IP - INDUSTRIAL PARK DISTRICT		
PRINCIPAL USE: RENEWABLE ENERGY FACILITY	ALLOWED USE[1]	
LOT REQUIREMENTS	**REQUIRED**	**PROVIDED**
MIN. LOT SIZE	40,000 SF	±876,645 SF[2]
MIN. FRONTAGE	200 FT	321.3 FT
MIN. FRONT YARD[3]	50 FT	±828.1 FT
MIN. REAR YARD	50 FT	97.9 FT
MIN. SIDE YARD	30 FT	32.4 FT
PRINCIPLE BLDG.		
MAX. BLDG. HEIGHT[5]	40 FT	83.5 FT[4]
LOT COVERAGE		
MAX. COVERAGE/GRN SP %	35/15%	4[5]/±90%
PARKING		
1 SPACE PER MOTOR VEHICLE	1 - TRUCK	3 - TRUCK
PLUS EMPLOYEE PARKING	1-CAR	8 - CAR

[1]BASED ON PERMITTED USE (8) RECYCLABLES HANDLING AND RECOVERY FACILITY
[2]LOT SIZE: ±876,645 S.F. = 20.125 AC
[3]SIDE AND REAR SETBACK FOR ACCESSORY BUILDINGS IS EQUAL TO YARD REQUIREMENT
[4]VARIANCE REQUIRED FOR BUILDING HEIGHT SINCE TANK EXCEEDS REQUIREMENT BY 43.5 FT.
[5]BUILDING, RECEIVING/MIXING TANKS, STORAGE TANK AND DIGESTER TANKS COUNTED TOWARDS MAX. COVERAGE = 36,790 S.F. OF "BUILDING/STRUCTURE".

SITE PLAN LEGEND
- PROJECT PARCEL BOUNDARY
- ZONING SETBACKS/YARDS
- NEW BUILDING/TANK/STRUCTURE
- SEMI-PERMANENT CONTAINER
- GRAVEL PAVEMENT
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- BERM AREA

**REFER TO SURVEY FOR EXISTING FEATURES LEGEND*

REFERENCES & NOTES:
1. BOUNDARY, TOPOGRAPHY AND EXISTING CONDITIONS FROM TOPOGRAPHIC SURVEY PREPARED BY WELCH & O'DONOGHUE, DATED APRIL 24, 2023.

2. REFER TO REF. #1 FOR AVOIDANCE PLAN/NOTES RELATED TO "LOCUS IV".

Scale 1"=40' : 0 40 80 Feet

No.	Revision/Issue	Date

Revisions

Notes & References

CONTRACTOR SHALL CONTACT "DIG SAFELY" NEW YORK @ 1-800-962-7962 FOR LOCATION OF ALL UTILITIES, AT LEAST 7 DAYS PRIOR TO BEGINNING CONSTRUCTION

Applicant

CH4 BIOGAS

GENESEE BIOGAS, LLC
30 Lakewood Circle North
Greenwich, Connecticut 068430

Engineer's Seal

STATE OF NEW YORK · SARA LYNN GILBERT · 087296 · LICENSED PROFESSIONAL ENGINEER

PRELIMINARY NOT FOR CONSTRUCTION

Engineer

PINEWOODS ENGINEERING, P.C.
www.pinewoodsengineering.com
42 Aston Villa, North Chili, New York 14514
Phone: (585) 261-7852

Project Name and Address

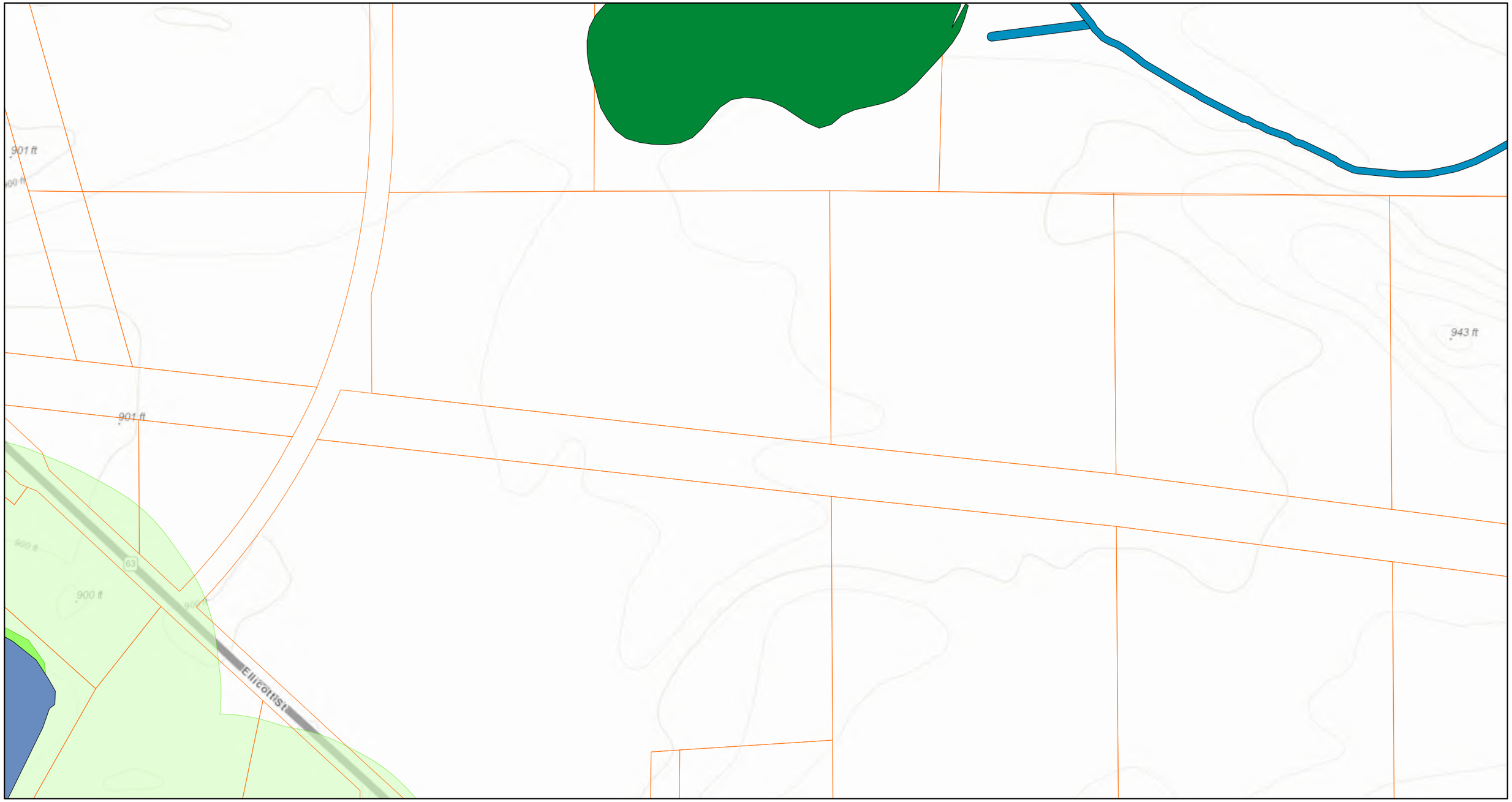
GENESEE BIOGAS
Genesee Valley Agribusiness Park
W Ag Park Dr
Town of Batavia
Genesee County, New York

Drawing Name

DETAILED SITE PLAN - II

Sheet	Drawing Number
9 OF 20	C-4.2
Date: 6/23/2023	
Scale: 1" = 40'	

Environmental Resource Mapper



May 25, 2023

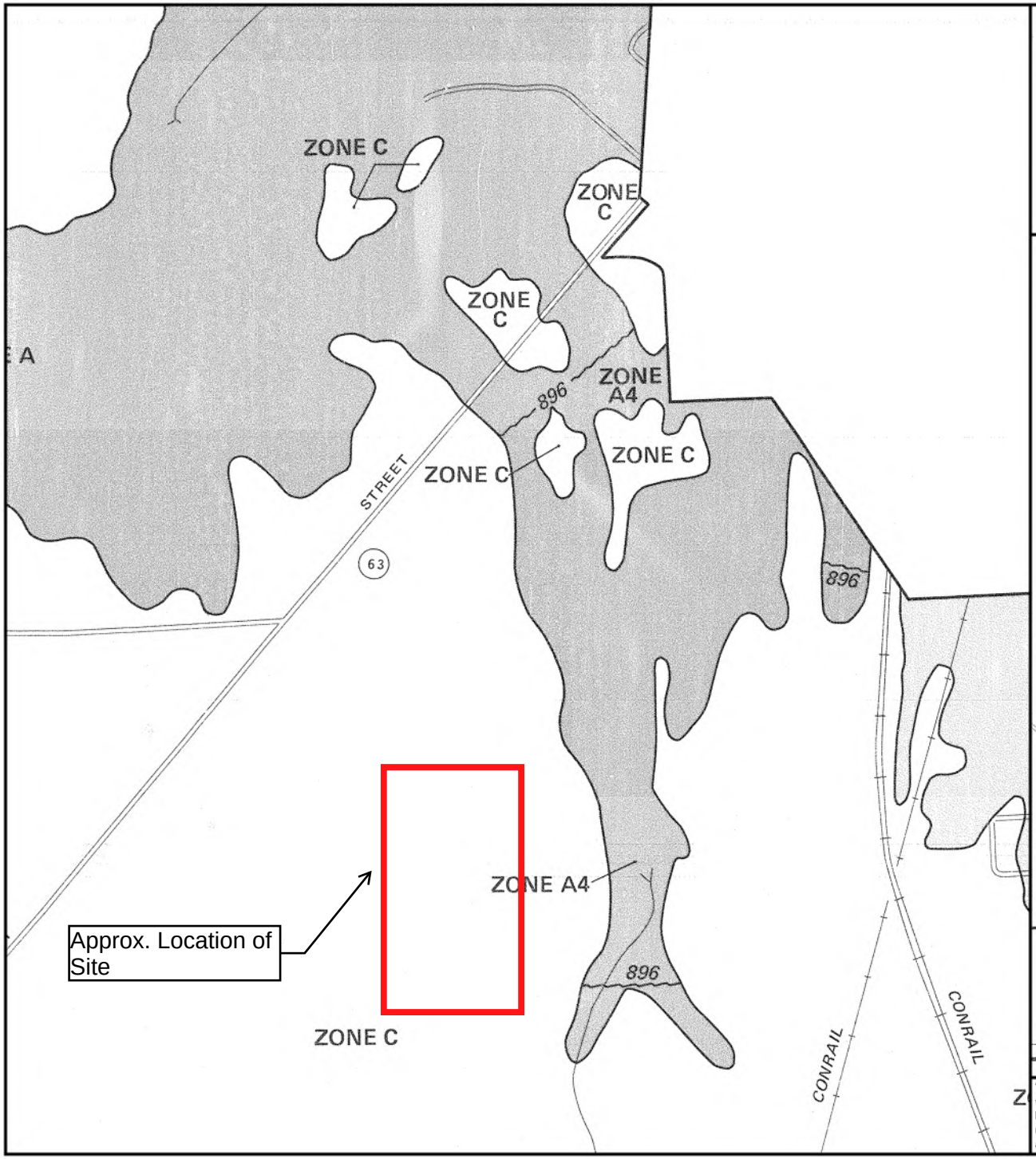
1:4,514

0 0.04 0.08 0.16 mi

0 0.05 0.1 0.2 km

Province of Ontario, Ontario MNR, Esri Canada, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA

NYS Department of Environmental Conservation
Not a legal document



N

APPROXIMATE SCALE

1000 0 1000 FEET

CORPORATE LIMITS

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

TOWN OF
BATAVIA,
NEW YORK
GENESEE COUNTY

PANEL 15 OF 15
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER
360278 0015 B

EFFECTIVE DATE:
JANUARY 17, 1985

Federal Emergency Management Agency

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Genesee County, New York

April 20, 2023

Custom Soil Resource Report
Soil Map

Map Scale: 1:2,370 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 35 70 140 210

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Genesee County, New York
Survey Area Data: Version 23, Sep 10, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 15, 2020—Jun 17, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PhA	Palmyra gravelly loam, 0 to 3 percent slopes	13.4	65.0%
PhB	Palmyra gravelly loam, 3 to 8 percent slopes	7.2	35.0%
Totals for Area of Interest		**20.5**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

Genesee County, New York

PhA—Palmyra gravelly loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: p7s2
Elevation: 660 to 1,150 feet
Mean annual precipitation: 31 to 38 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 140 to 175 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Palmyra and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Palmyra

Setting

Landform: Deltas, terraces, outwash plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy over sandy and gravelly glaciofluvial deposits, derived mainly from limestone and other sedimentary rocks

Typical profile

H1 - 0 to 12 inches: gravelly loam
H2 - 12 to 29 inches: gravelly clay loam
H3 - 29 to 72 inches: stratified very gravelly sand to fine sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Available water supply, 0 to 60 inches: Low (about 4.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 1
Hydrologic Soil Group: A
Ecological site: F101XY005NY - Dry Outwash
Hydric soil rating: No

Minor Components

Arkport

Percent of map unit: 5 percent

Hydric soil rating: No

Dunkirk

Percent of map unit: 5 percent
Hydric soil rating: No

Fredon

Percent of map unit: 5 percent
Hydric soil rating: No

Phelps

Percent of map unit: 5 percent
Hydric soil rating: No

PhB—Palmyra gravelly loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: p7s5
Elevation: 570 to 1,250 feet
Mean annual precipitation: 31 to 38 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 140 to 175 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Palmyra and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Palmyra

Setting

Landform: Terraces, deltas, outwash plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy over sandy and gravelly glaciofluvial deposits, derived mainly from limestone and other sedimentary rocks

Typical profile

H1 - 0 to 12 inches: gravelly loam
H2 - 12 to 29 inches: gravelly clay loam
H3 - 29 to 72 inches: stratified very gravelly sand to fine sand

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)
Depth to water table: More than 80 inches

Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Available water supply, 0 to 60 inches: Low (about 4.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: A
Ecological site: F101XY005NY - Dry Outwash
Hydric soil rating: No

Minor Components

Arkport

Percent of map unit: 5 percent
Hydric soil rating: No

Dunkirk

Percent of map unit: 5 percent
Hydric soil rating: No

Phelps

Percent of map unit: 5 percent
Hydric soil rating: No

Fredon

Percent of map unit: 5 percent
Hydric soil rating: No

New York State
Parks, Recreation and
Historic Preservation

KATHY HOCHUL
Governor

ERIK KULLESEID
Commissioner

June 02, 2023

Sara Gilbert
Pinewoods Engineering, PC
42 Aston Villa
North Chili, NY 14514

Re: DEC
Genesee Biogas Facility
Town of Batavia, Genesee County, NY
23PR04396
GP-0-20-001

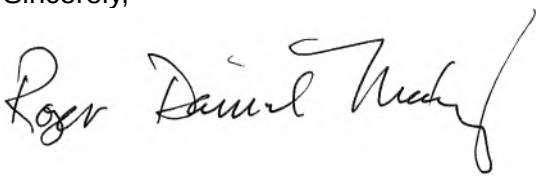
Dear Sara Gilbert:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the OPRHP and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6 NYCRR Part 617).

Based upon this review, it is the opinion of OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,



R. Daniel Mackay

Deputy Commissioner for Historic Preservation
Division for Historic Preservation

rev: S. Snyder

TOWN VILLAGE CITY OF Batavia Application #_____
(circle one)

Agricultural Data Statement

Date 05/02/2023

Instructions: This form must be completed for any application for a special use permit, site plan approval, use variance or a subdivision approval requiring municipal review that would occur on property within 500 feet of a farm operation located in a NYS Dept. of Ag & Markets certified Agricultural District.

Applicant	Owner if Different from Applicant
Name: Genesee Biogas LLC Address: 30 Lakewood Circle North Greenwich, CT 06830	Name: Genesee County Economic Develp. Center Address: 99 MedTech Drive, Suite 106 Batavia, NY 14020

1. Type of Application: ☐Special Use Permit; ☑Site Plan Approval ; ☐Use Variance; ☐Subdivision Approval
(circle one or more)

Additional Owner:
O-AT-KA Milk Prod. Coop.
PO Box 718
Batavia, NY 14021

2. Description of proposed project: Construction of a new renewable gas facility (biogas plant) consisting of; tanks for digestion (gas), storage (gas and waste), various process equipment and tanks, and a ±18,000 s.f. receiving building. Organic food waste will be mainly delivered by forcemain from three adjacent plants and a minor amount will be delivered by truck.

3. Location of project: Address: W. Ag Park Drive in the Genesee Valley Agri-Business Park
Tax Map Number (TMP) 20.-1-108.1

4. Is this parcel within an Agricultural District? ☐NO ☑YES (Check with your local assessor if you do not know)
5. If YES, Agricultural District Number GENE001
6. Is this parcel actively farmed? ☐NO ☑YES
7. List all farm operations within 500 feet of your parcel. Attach additional sheets if necessary.

Additional sheet attached

Name: Donald Partridge Address: 4957 Ellicott St. Rd. Batavia, NY 14020 Is this parcel actively farmed? ☐NO ☑YES	Name: O-AT-KA Milk Products Coop. Inc. Address: PO Box 718 Batavia, NY 14021 Is this parcel actively farmed? ☐NO ☑YES
Name: HP Hood, LLC Address: 6 Kimball Lane Lynnfield, MA 01940 Is this parcel actively farmed? ☐NO ☑YES	Name: Donna Nichols Address: 9771 Bethany Center Rd East Bethany, NY 14054 Is this parcel actively farmed? ☐NO ☑YES

_____ Signature of Applicant

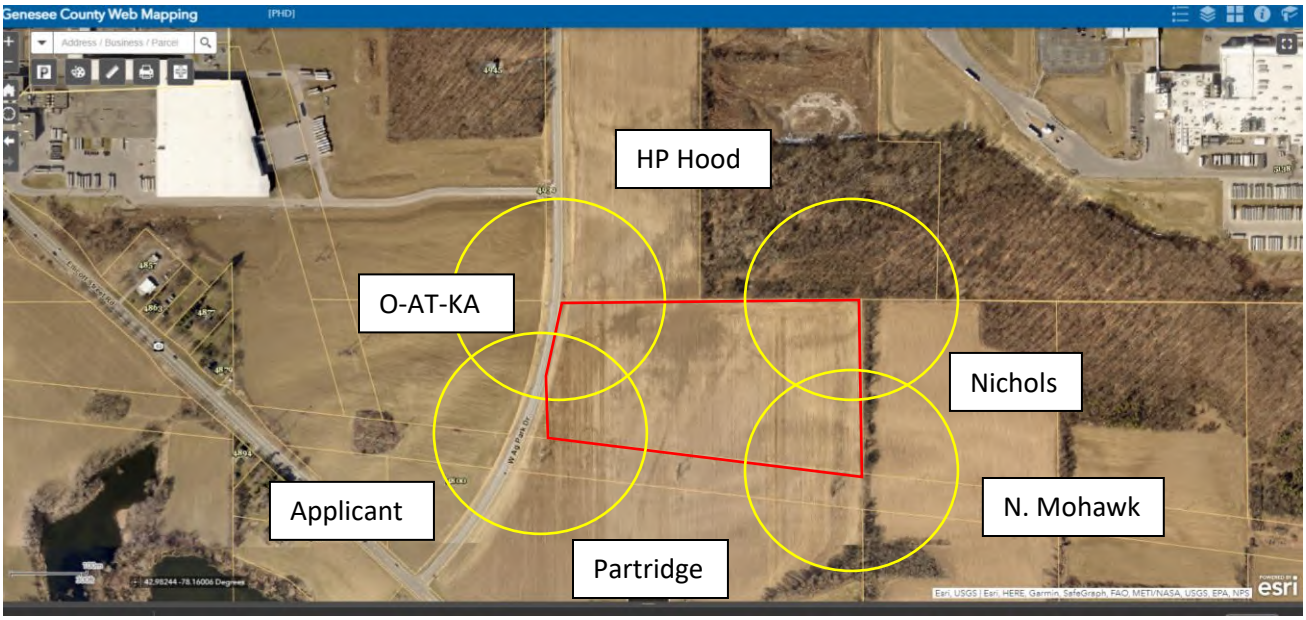
_____ Signature of Owner (if other than applicant)

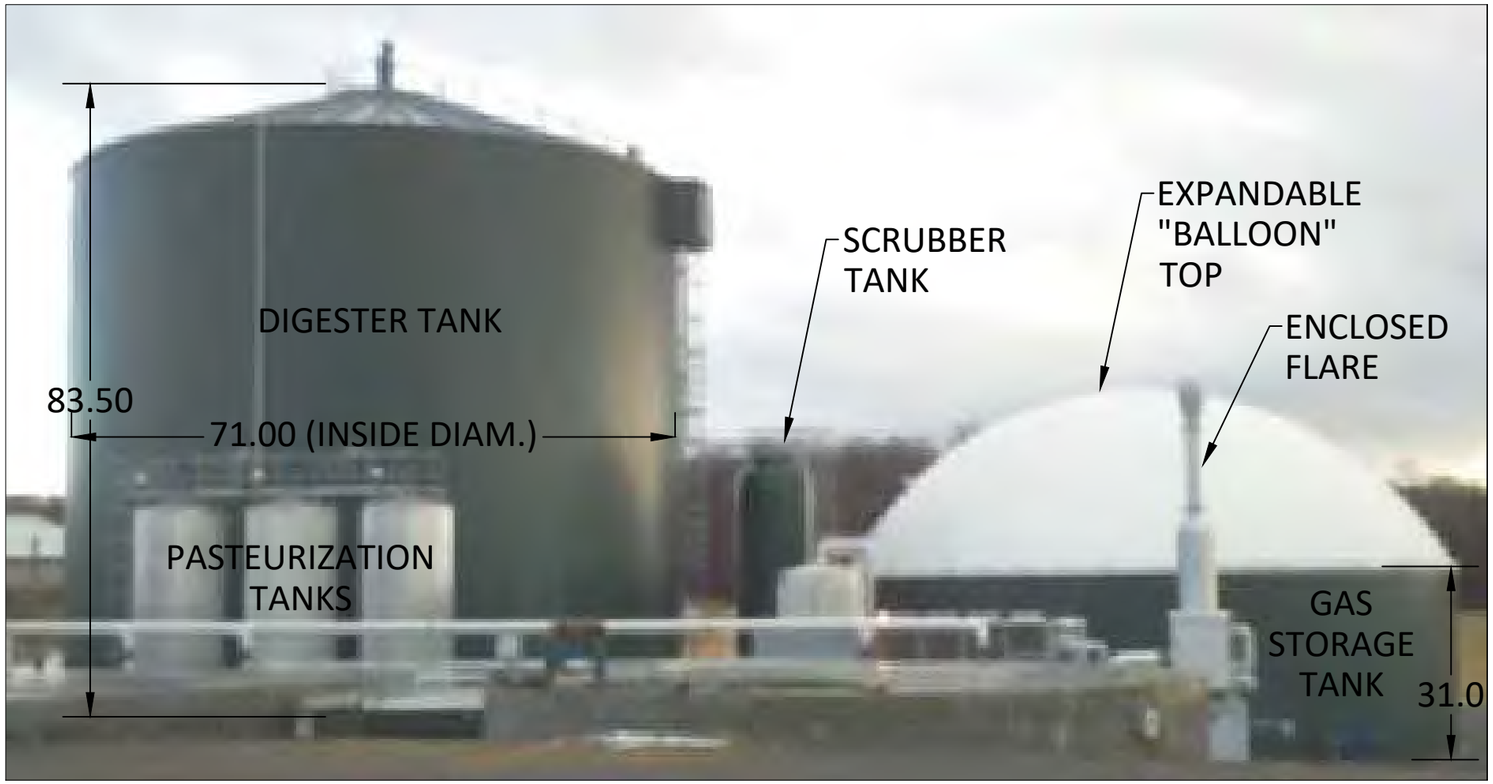
Reviewed by: _____ Signature of Municipal Official

_____ Date

NOTE TO REFERRAL AGENCY: County Planning Board review is required. A copy of the Agricultural Data Statement must be submitted along with the referral to the County Planning Department.

Niagara Mohawk
300 Erie Blvd. West
Syracuse, NY 13202
Actively Farmed? Yes





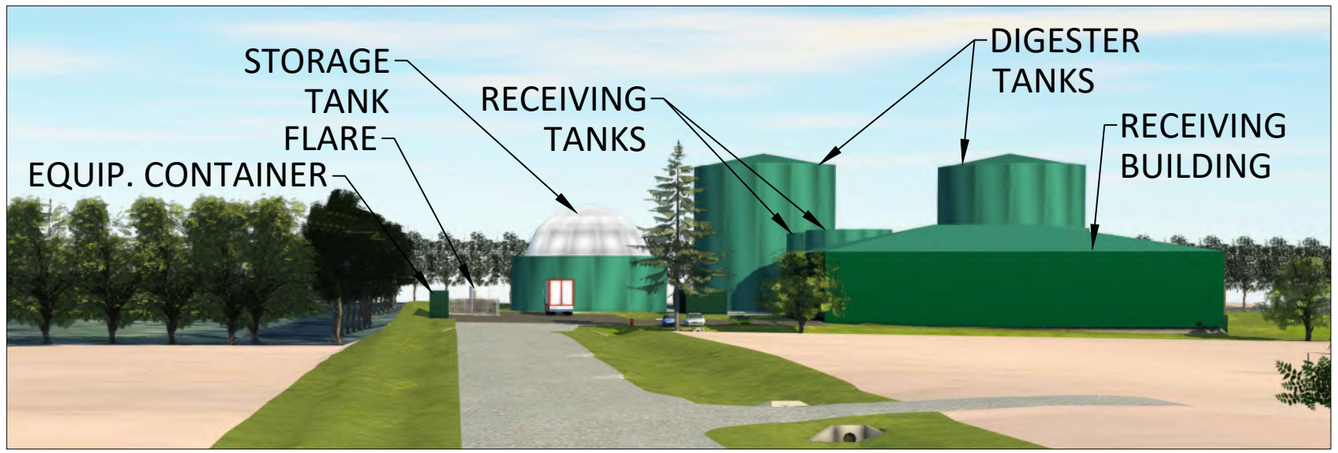
Digester & Storage Tank Elevation

Scale: 1" = 20'

0 20/80 40/160

Receiving Building Elevation

Scale: 1" = 80'



Applicant

GENESEE BIOGAS, LLC
30 Lakewood Circle North
Greenwich, Connecticut 068430

Engineer

PINEWOODS ENGINEERING, P.C.

Project Name and Address

GENESEE BIOGAS
Genesee Valley Agribusiness Park
W Ag Park Dr
Town of Batavia
Genesee County, New York

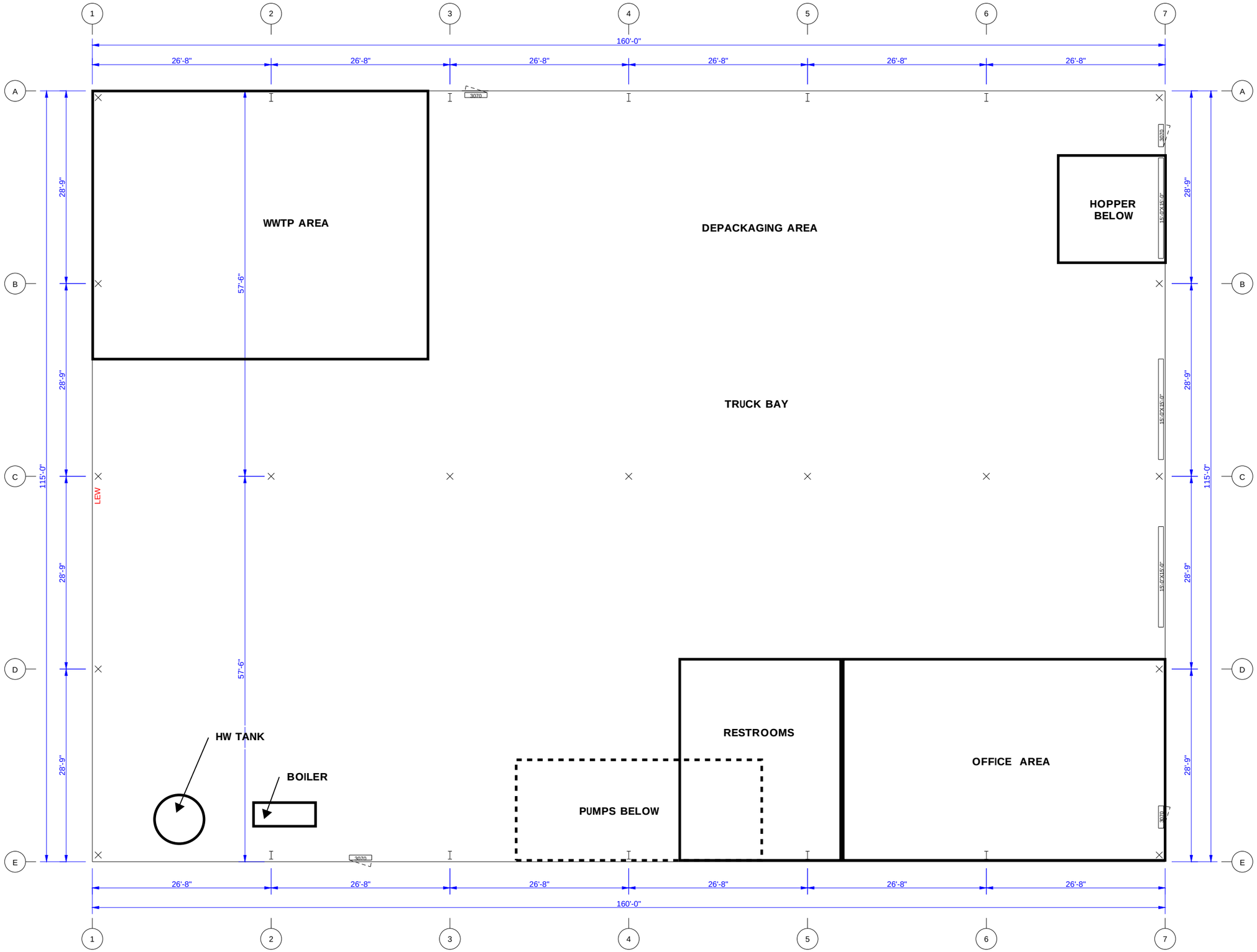
Drawing Name

TANK ELEVATIONS

Date

6/23/2023

BLDG 'A' (MAIN BUILDING) F.F. 100'-0"



Note: All base plates at elevation 100'-0" unless noted. See ATP for fenestration jamb elevations.

NOT FOR CONSTRUCTION
DRAWING FOR QUOTE & ORDER PURPOSES ONLY
QUOTE CONFIRMATION

MITCHELL DESIGN BUILD
GENESEE BIOGAS
BATAVIA, NY

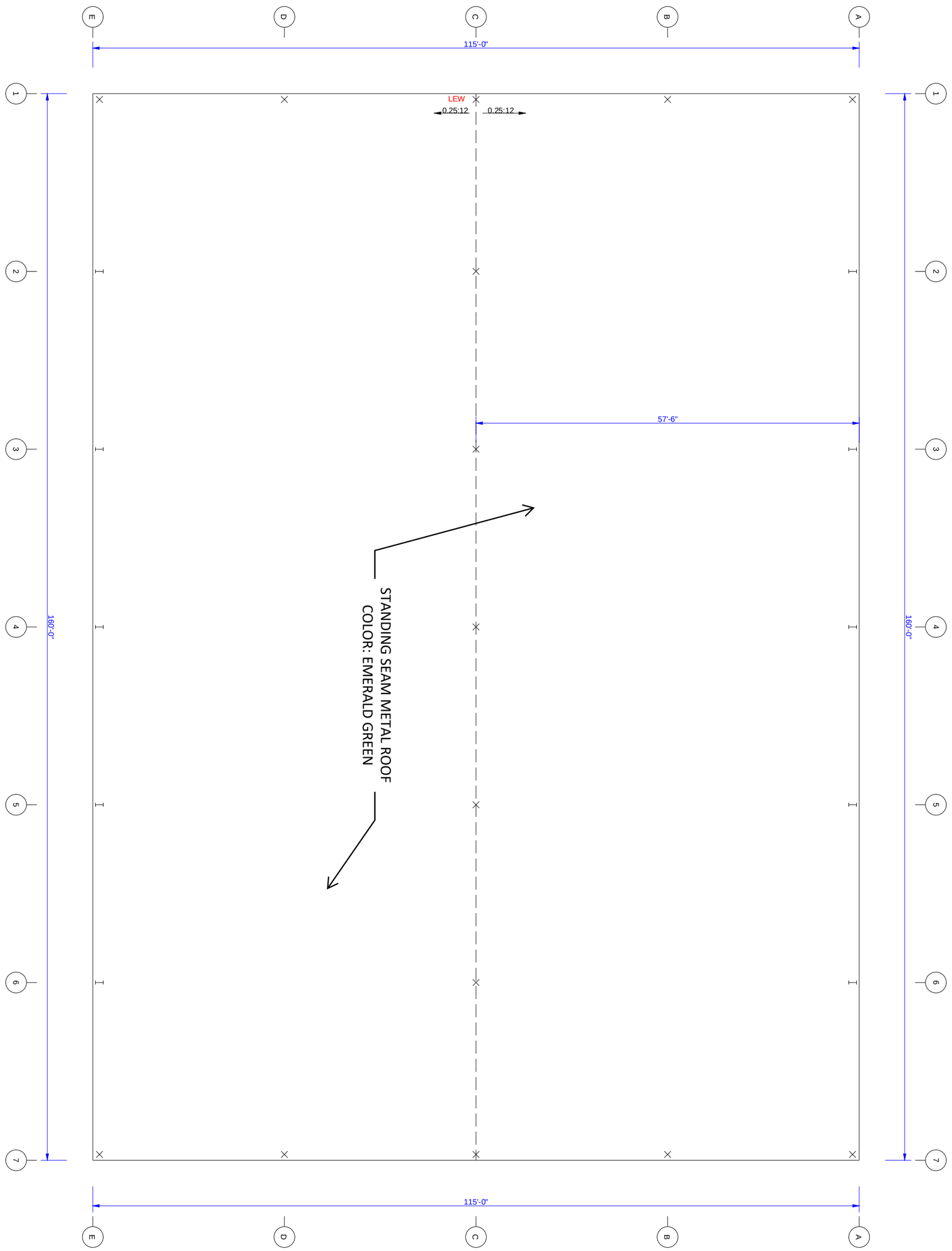
FP61601

BLDG 'A'
PLAN

D1/D4

MDB
MITCHELL DESIGN BUILD
Building on a Foundation of Architecture

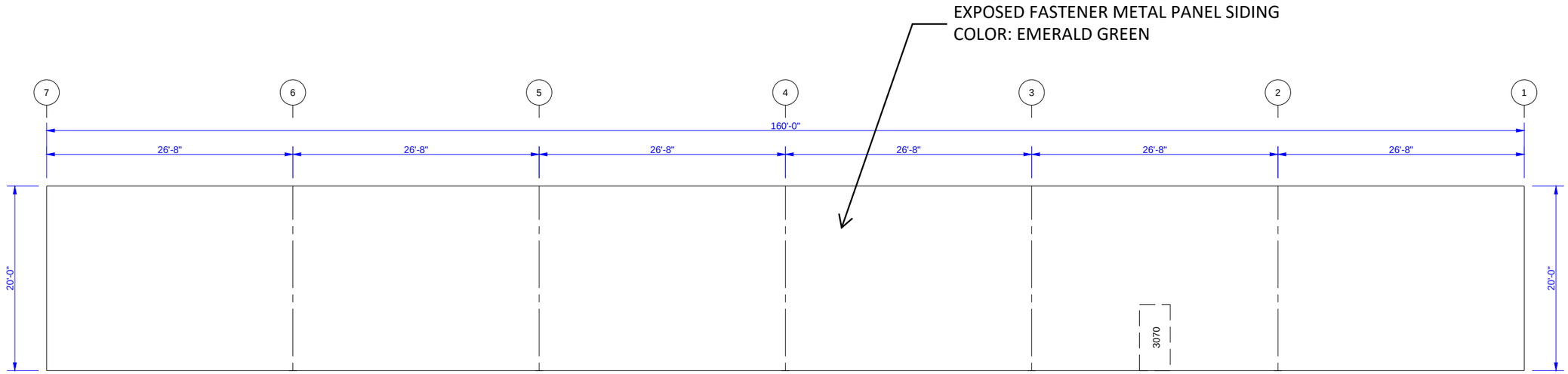
CHIEF BUILDINGS



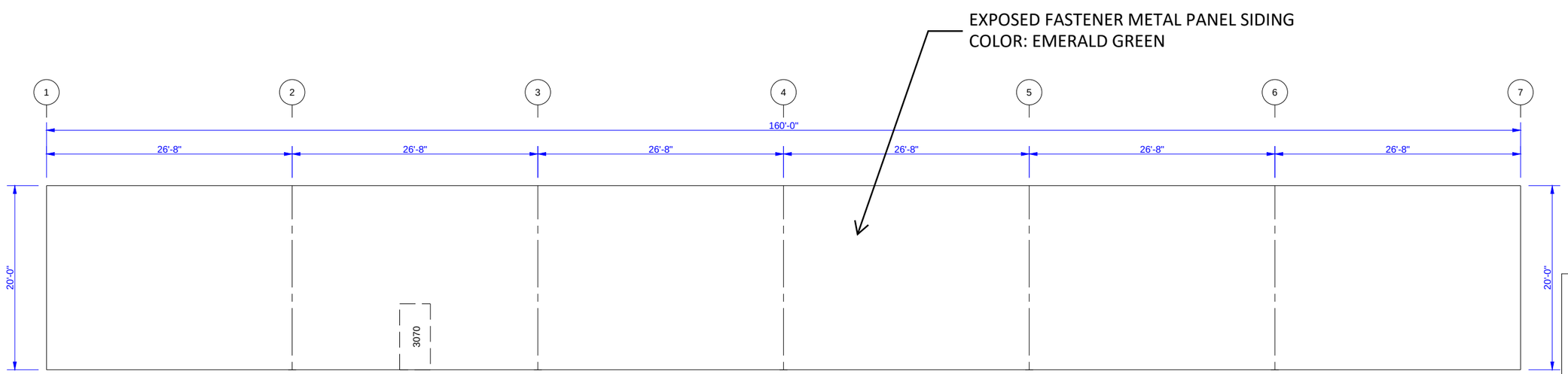
MITCHELL DESIGN BUILD
Building on a Foundation of Architecture

CHIEF BUILDINGS

D2/D4	BLDG 'A' ROOF PLAN	FP61601		MITCHELL DESIGN BUILD GENESEE BIOGAS BATAVIA, NY	NOT FOR CONSTRUCTION DRAWING FOR QUOTE & ORDER PURPOSES ONLY QUOTE CONFIRMATION



LINE A
4 single downspouts
CS Wall Panel - Emerald Green



LINE E
4 single downspouts
CS Wall Panel - Emerald Green

NOT FOR CONSTRUCTION
DRAWING FOR QUOTE & ORDER PURPOSES ONLY
QUOTE CONFIRMATION

MITCHELL DESIGN BUILD
GENESEE BIOGAS
BATAVIA, NY

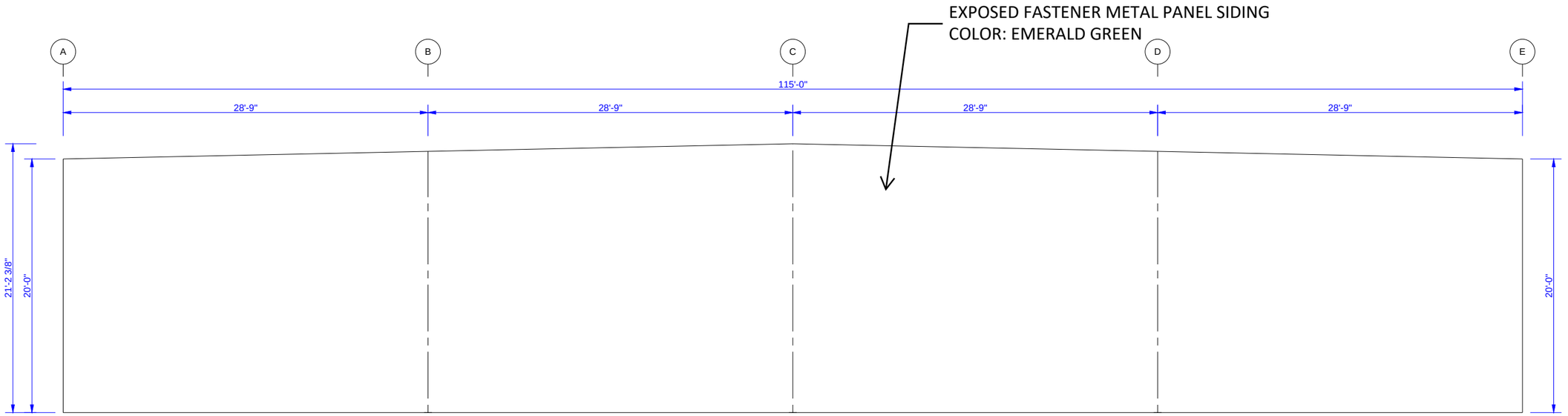
FP61601

BLDG 'A'
LINE A&E

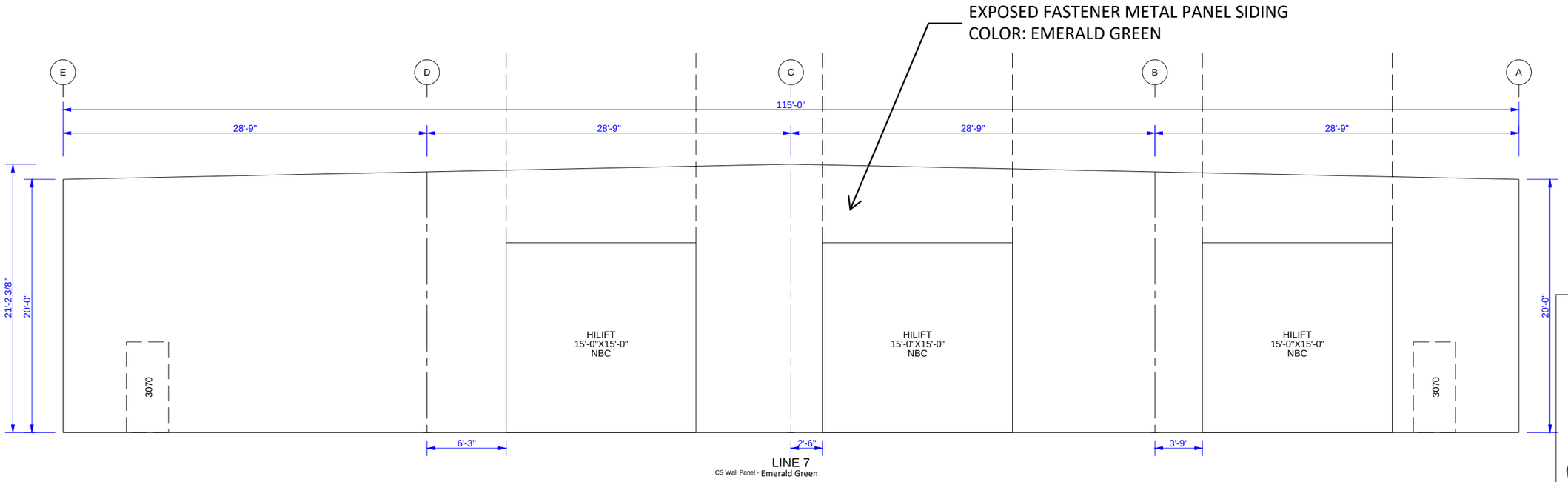
D3/D4

MDB MITCHELL DESIGN BUILD
Building on a Foundation of Architecture

CHIEF BUILDINGS



LINE 1
CS Wall Panel - Emerald Green



LINE 7
CS Wall Panel - Emerald Green

NOT FOR CONSTRUCTION
DRAWING FOR QUOTE & ORDER PURPOSES ONLY
QUOTE CONFIRMATION

MITCHELL DESIGN BUILD
GENESEE BIOGAS
BATAVIA, NY

FP61601

BLDG 'A'
LINE 1&7

D4/D4

MDB
MITCHELL DESIGN BUILD
Building on a Foundation of Architecture

CHIEF BUILDINGS

PROPOSED WAREHOUSE

1161 Vision Parkway
Town of Pembroke, Genesee County, NY

SITE DEVELOPMENT DRAWINGS

INDEX OF DRAWINGS

PAGE #	DWG. #	DRAWING NAME	REVISION DATE	ORIGINAL DATE
1	C-1.0	COVER SHEET		6/23/2023
2	C-1.1	NOTES & SPECIFICATIONS - I		
3	C-1.2	NOTES & SPECIFICATIONS - II		
4	C-2.0	BOUNDARY & TOPOGRAPHIC SURVEY	-	4/24/2023
5	C-3.0	PHASE I EROSION CONTROL PLAN		
6	C-3.1	EROSION CONTROL DETAILS		
7	C-4.0	OVERALL SITE PLAN		6/23/2023
8	C-4.1	DETAILED SITE PLAN - I		6/23/2023
9	C4.2	DETAILED SITE PLAN - II		6/23/2023
10	C-4.3	SITE DETAILS		
11	C-5.0	GRADING & PHASE II EROSION CONTROL PLAN		6/23/2023
12	C-5.1	DRAINAGE PLAN		6/23/2023
13	C-6.0	UTILITY PLAN - I		6/23/2023
14	C-6.1	UTILITY PLAN - II		6/23/2023
15	C-6.2	UTILITY PLAN - III		6/23/2023
16	C-6.3	UTILITY PLAN - IV		6/23/2023
17	C-6.4	UTILITY PLAN - V		6/23/2023
18	C-6.5	UTILITY DETAILS - I		
19	C-6.6	UILITY DETAILS - II		
20	C-7.0	LIGHTING & LANDSCAPING PLAN		6/23/2023

OWNER/DEVELOPER:

NAME:	GENESEE BIOGAS, LLC
ADDRESS:	30 LAKEWOOD CIRCLE NORTH, GREENWICH, CT 06830
CONTACT:	LAUREN TORETTA, PRESIDENT
PHONE:	203-869-1446

REFERENCES:

BOUNDARY & TOPOGRAPHIC SURVEY / EXISTING CONDITIONS	
PREPARED BY:	WELCH & O'DONOGHUE LAND SURVEYORS, PC
DATE PREPARED:	4/24/2023
LAST REVISED:	-

AGENCIES:

ZONING & CODES DEPARTMENT

NAME/TITLE:	DAN LANG, BLDG. INSPECTOR
COMPANY/ DEPARTMENT:	TOWN OF BATAVIA, BLDG. & ZONING DEPT.
ADDRESS:	3833 W. MAIN ST., BATAVIA, NY 14020
PHONE:	585-343-1729 x222

UTILITIES:

WATER/SANITARY

NAME/TITLE:	STEVE MOUNTAIN, TOWN ENGINEER
COMPANY/DEPT:	TOWN OF BATAVIA, WTR/WASTE WTR DEPT.
ADDRESS:	3833 W. MAIN ST., BATAVIA, NY 14020
PHONE:	585-356-4900

NATURAL GAS

COMPANY/DEPT:	NATIONAL FUEL
PHONE:	1-800-365-3234

TELEPHONE COMPANY

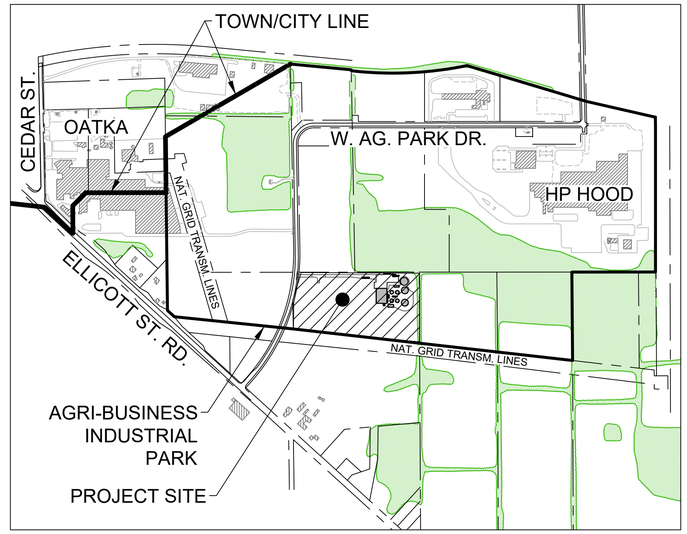
COMPANY/DEPT:	SPECTRUM
PHONE:	855-762-1243

ELECTRIC:

COMPANY/DEPT:	NATIONAL GRID
PHONE:	1-800-322-3223

CABLE

COMPANY/DEPT:	SPECTRUM
PHONE:	855-762-1243



PROJECT KEY MAP
Scale: 1" = 800'

PROJECT LOCATION MAP
Not to Scale

TOWN OF BATAVIA:

PLANNING BOARD CHAIR _____ DATE _____

TOWN ENGINEER _____ DATE _____

Revisions	No.	Revision/Issue	Date

Notes & References

CONTRACTOR SHALL CONTACT "DIG SAFELY" NEW YORK @ 1-800-962-7962 FOR LOCATION OF ALL UTILITIES, AT LEAST 7 DAYS PRIOR TO BEGINNING CONSTRUCTION

Applicant

CH4 BIOGAS

GENESEE BIOGAS, LLC
30 Lakewood Circle North
Greenwich, Connecticut 068430

Engineer's Seal

STATE OF NEW YORK · SARA LYNN GILBERT · 087296 · LICENSED PROFESSIONAL ENGINEER

PRELIMINARY
NOT FOR CONSTRUCTION

Engineer

PINEWOODS ENGINEERING, P.C.
www.pinewoodsengineering.com

42 Aston Villa, North Chili, New York 14514
Phone: (585) 261-7852

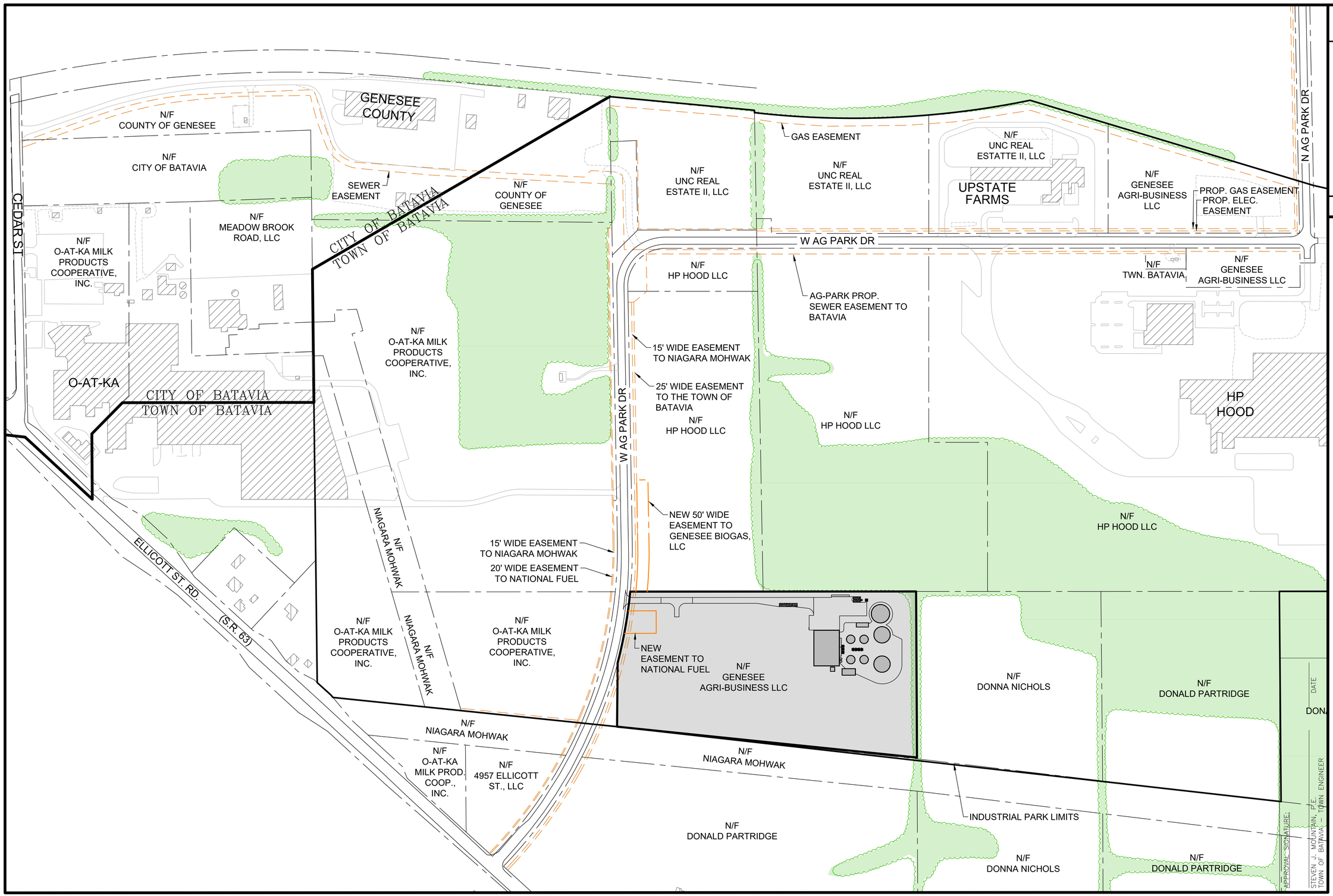
Project Name and Address

GENESEE BIOGAS
Genesee Valley Agribusiness Park
W Ag Park Dr
Town of Batavia
Genesee County, New York

Drawing Name

COVER SHEET

Sheet	Drawing Number
1 OF 20	C-1.0
Date: 6/23/2023	
Scale: As Shown	



Revisions										Revision/Issue	Date

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GENESEE BIOGAS
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W Ag Park Dr
Town of Batavia
Genesee County, New York

Drawing Name

OVERALL SITE PLAN

Sheet	Drawing Number
7 OF 20	C-4.0
Date: 6/23/2023	
Scale: 1" = 200'	

PROJECT BENCH TIE – RAILROAD SPIKE FOUND IN EAST SIDE UTILITY POLE ELEV: 890.38

50.00 NEW 50-FT EASEMENT TO GENESEE BIOGAS, LLC

66.0' HIGHWAY LINE

15.0'

25.0' 25' WIDE UTILITY EASEMENT TO THE TOWN OF BATAVIA PER FILED MAP NO. 2389

15' WIDE UTILITY EASEMENT TO NIAGARA MOHAWK POWER CORP. PER FILED MAP NO. 2389

10.5' PIN

N/F
HP HOOD, LLC
INSTR #DE2021–2091
TAX ACCOUNT NO. 13.–1–87.124

N 89°57'50" E 1268.58'

26.19

30.00 SIDE SETBACK

140.00

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00

26.00

85.00

32.91

R30.00

R28.00

170°

TRUCK SCALE

828.13

CURVE DATA:
R=2033.00'
L=321.63'
D=9°03'52"
CHORD:
N 10°00'33" E
321.30'

125'

FIRE ACCESS TURN-AROUND

20.00

100'

142'

EASEMENT TO NATIONAL FUEL

W AG PARK (66.0' WIDE) DRIVE

50.00

FRONT SETBACK

PARCEL SURVEYED
= 20.125 ACRES

S.B.L. #20.–1–108.1

N 00°30'22" E 283.00'

N/F
NIAGARA MOHAWK POWER CORPORATION
L.862 D.857
TAX ACCOUNT

MATCHLINE C-4.2

Scale 1"=40' : 0 40 80 Feet

No.	Revision/Issue	Date
	Revisions	

Notes & References

CONTRACTOR SHALL CONTACT "DIG SAFELY" NEW YORK @ 1-800-962-7962 FOR LOCATION OF ALL UTILITIES, AT LEAST 7 DAYS PRIOR TO BEGINNING CONSTRUCTION

Applicant

CH4 BIOGAS

GENESEE BIOGAS, LLC
30 Lakewood Circle North
Greenwich, Connecticut 068430

Engineer's Seal

STATE OF NEW YORK · SARA LYNN GILBERT · 087296 · LICENSED PROFESSIONAL ENGINEER

PRELIMINARY
NOT FOR CONSTRUCTION

Engineer

PINEWOODS ENGINEERING, P.C.
www.pinewoodsengineering.com

42 Aston Villa, North Chili, New York 14514
Phone: (585) 261-7852

Project Name and Address

GENESEE BIOGAS
Genesee Valley Agribusiness Park
W Ag Park Dr
Town of Batavia
Genesee County, New York

Drawing Name

DETAILED SITE PLAN - I

Sheet	Drawing Number
8 OF 20	C-4.1
Date: 6/23/2023	
Scale: 1" = 40'	

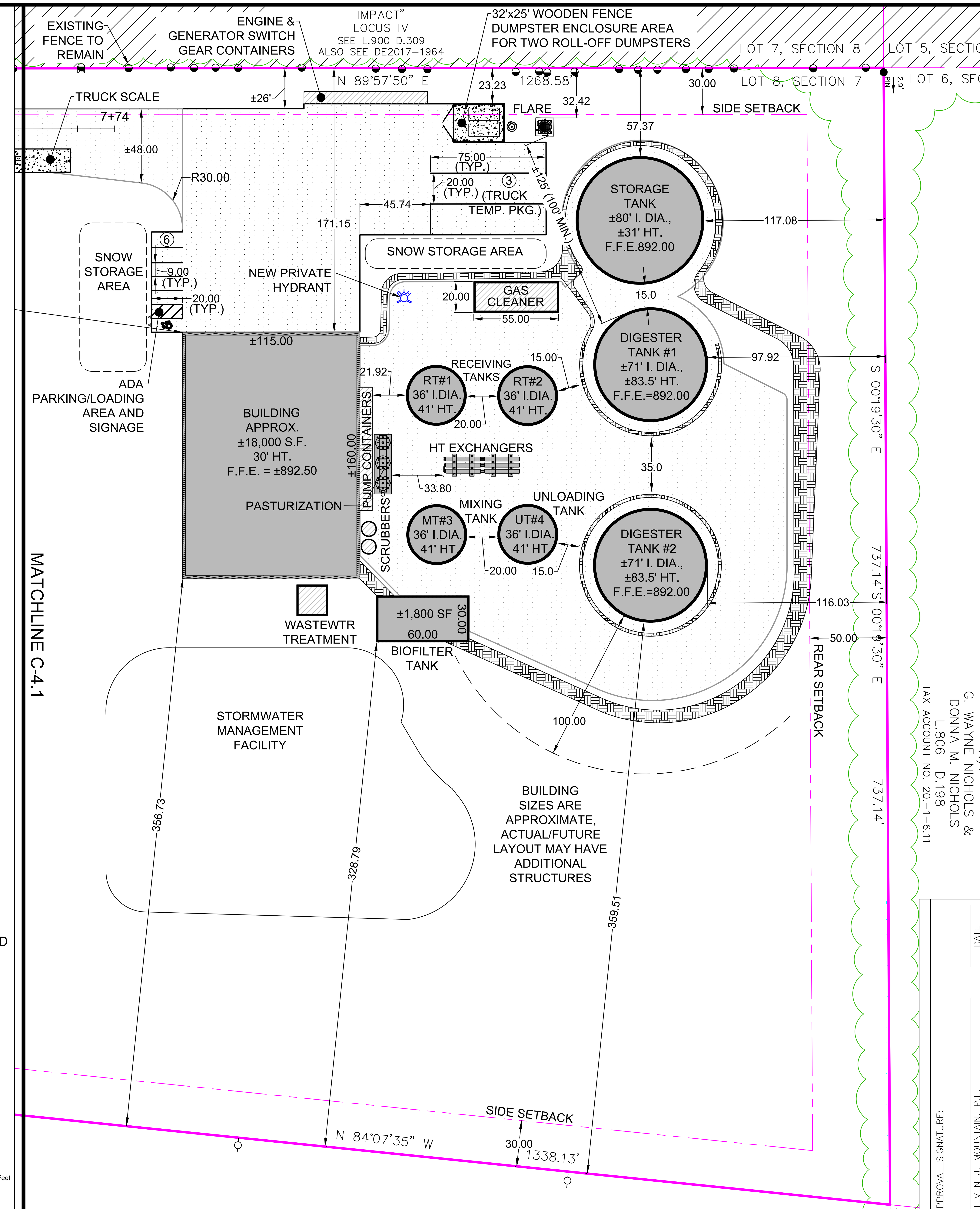
SITE PLAN LEGEND

- PROJECT PARCEL BOUNDARY
- ZONING SETBACKS/YARDS
- NEW BUILDING/TANK/STRUCTURE
- SEMI-PERMANENT CONTAINER
- GRAVEL PAVEMENT
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- BERM AREA

**REFER TO SURVEY FOR EXISTING FEATURES LEGEND*

APPROVAL SIGNATURE: DATE

STEVEN J. MOUNTAIN, P.E.
TOWN OF BATAVIA – TOWN ENGINEER



TOWN OF BATAVIA ZONING ANALYSIS		
PARCEL ID: 20.-1-108.1		
ZONED: IP - INDUSTRIAL PARK DISTRICT		
PRINCIPAL USE: RENEWABLE ENERGY FACILITY	ALLOWED USE[1]	
LOT REQUIREMENTS	**REQUIRED**	**PROVIDED**
MIN. LOT SIZE	40,000 SF	±876,645 SF[2]
MIN. FRONTAGE	200 FT	321.3 FT
MIN. FRONT YARD[3]	50 FT	±828.1 FT
MIN. REAR YARD	50 FT	97.9 FT
MIN. SIDE YARD	30 FT	32.4 FT
PRINCIPLE BLDG.		
MAX. BLDG. HEIGHT[5]	40 FT	83.5 FT[4]
LOT COVERAGE		
MAX. COVERAGE/GRN SP %	35/15%	4[5]/±90%
PARKING		
1 SPACE PER MOTOR VEHICLE	1 - TRUCK	3 - TRUCK
PLUS EMPLOYEE PARKING	1-CAR	8 - CAR

[1]BASED ON PERMITTED USE (8) RECYCLABLES HANDLING AND RECOVERY FACILITY
[2]LOT SIZE: ±876,645 S.F. = 20.125 AC
[3]SIDE AND REAR SETBACK FOR ACCESSORY BUILDINGS IS EQUAL TO YARD REQUIREMENT
[4]VARIANCE REQUIRED FOR BUILDING HEIGHT SINCE TANK EXCEEDS REQUIREMENT BY 43.5 FT.
[5]BUILDING, RECEIVING/MIXING TANKS, STORAGE TANK AND DIGESTER TANKS COUNTED TOWARDS MAX. COVERAGE = 36,790 S.F. OF "BUILDING/STRUCTURE".

SITE PLAN LEGEND

- PROJECT PARCEL BOUNDARY
- ZONING SETBACKS/YARDS
- NEW BUILDING/TANK/STRUCTURE
- SEMI-PERMANENT CONTAINER
- GRAVEL PAVEMENT
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- BERM AREA

REFER TO SURVEY FOR EXISTING FEATURES LEGEND

REFERENCES & NOTES:

1. BOUNDARY, TOPOGRAPHY AND EXISTING CONDITIONS FROM TOPOGRAPHIC SURVEY PREPARED BY WELCH & O'DONOGHUE, DATED APRIL 24, 2023.

2. REFER TO REF. #1 FOR AVOIDANCE PLAN/NOTES RELATED TO "LOCUS IV".

Scale 1"=40' : 0 40 80 Feet

Date | Revision/Issue | No. | Revisions

Notes & References

CONTRACTOR SHALL CONTACT "DIG SAFELY" NEW YORK @ 1-800-962-7962 FOR LOCATION OF ALL UTILITIES, AT LEAST 7 DAYS PRIOR TO BEGINNING CONSTRUCTION

Applicant
CH4 BIOGAS
GENESEE BIOGAS, LLC
30 Lakewood Circle North
Greenwich, Connecticut 068430

Engineer's Seal

PRELIMINARY
NOT FOR CONSTRUCTION

Engineer
PINEWOODS ENGINEERING, P.C.
www.pinewoodsengineering.com
42 Aston Villa, North Chili, New York 14514
Phone: (585) 261-7852

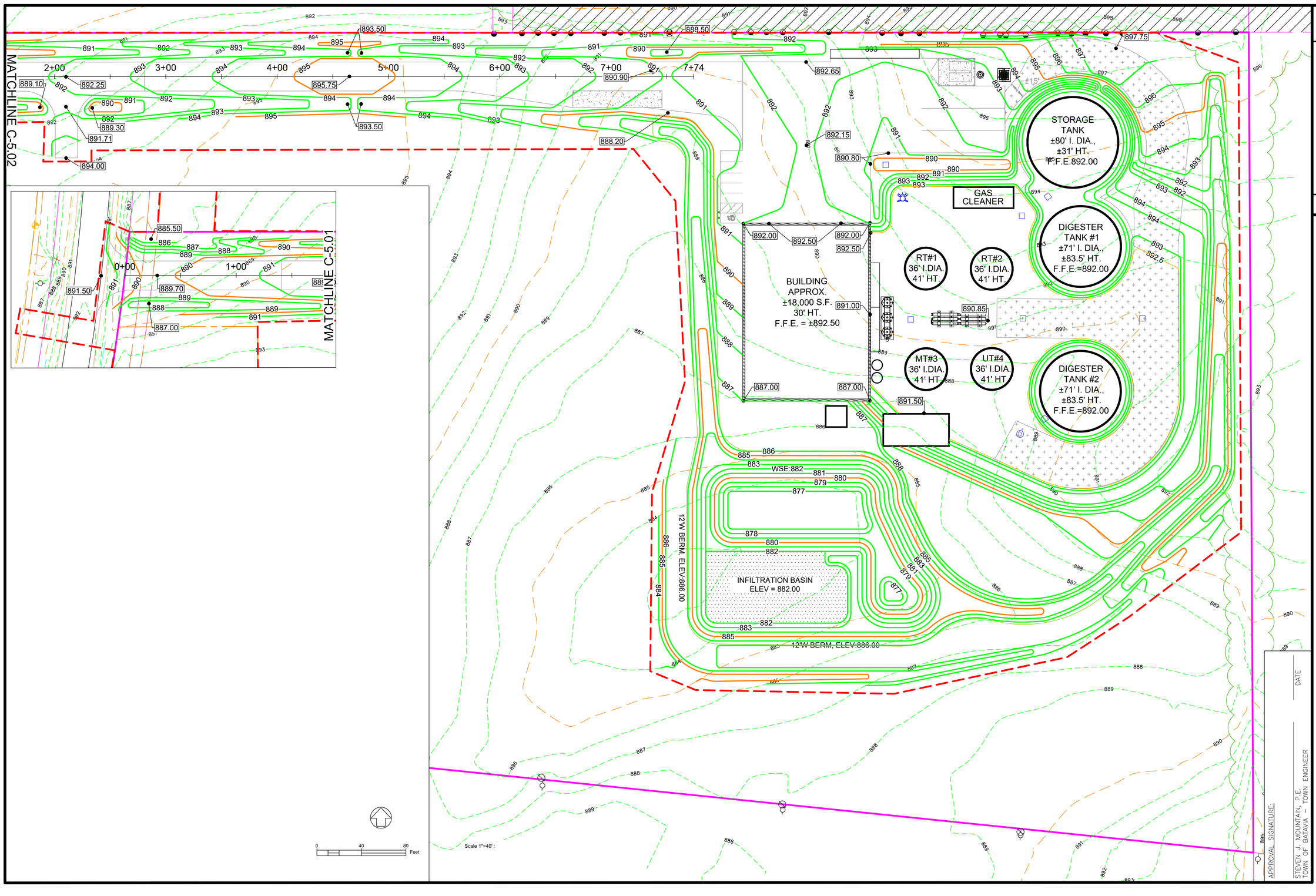
Project Name and Address

GENESEE BIOGAS
Genesee Valley Agribusiness Park
W Ag Park Dr
Town of Batavia
Genesee County, New York

Drawing Name

DETAILED SITE PLAN - II

Sheet	Drawing Number
9 OF 20	C-4.2
Date: 6/23/2023	
Scale: 1" = 40'	



Revisions	Revision/Issue	Date

Notes & References

CONTRACTOR SHALL CONTACT "DIG SAFELY" NEW YORK @ 1-800-962-7962 FOR LOCATION OF ALL UTILITIES, AT LEAST 7 DAYS PRIOR TO BEGINNING CONSTRUCTION

Applicant

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GENESEE BIOGAS, LLC
30 Lakewood Circle North
Greenwich, Connecticut 068430

Engineer's Seal

STATE OF NEW YORK · SARA LYNN GILBERT · 087296 · LICENSED PROFESSIONAL ENGINEER

PRELIMINARY
NOT FOR CONSTRUCTION

Engineer

PINEWOODS ENGINEERING, P.C.
www.pinewoodsengineering.com

42 Aston Villa, North Chili, New York 14514
Phone: (585) 261-7852

Project Name and Address

GENESEE BIOGAS
Genesee Valley Agribusiness Park
W Ag Park Dr
Town of Batavia
Genesee County, New York

Drawing Name

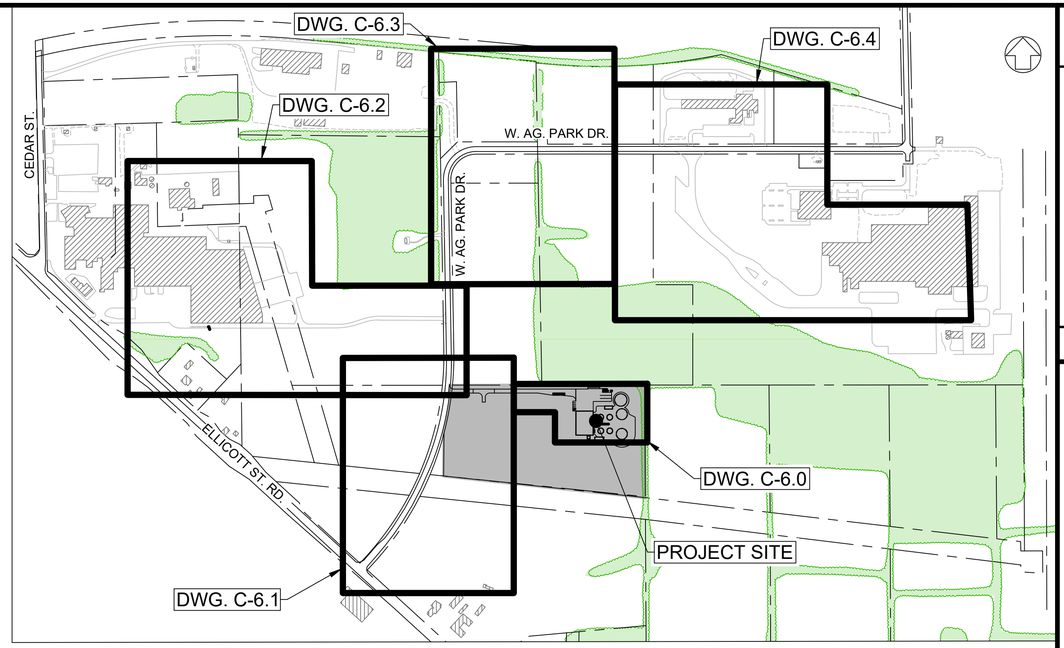
GRADING PLAN

Sheet	Drawing Number
11 OF 20	C-5.0
Date: 6/23/2023	
Scale: 1" = 40'	

APPROVAL SIGNATURE: STEVEN J. MOUNTAIN, P.E. TOWN OF BATAVIA - TOWN ENGINEER — DATE

UTILITY PLAN LEGEND

- NEW PRIVATE UTILITY CORRIDOR (MULTIPLE PIPES)
- NEW PRIVATE SANITARY SEWER FORCEMAIN (& FLOW DIRECTION ARROW)
- FUTURE PRIVATE SANITARY SEWER FORCEMAIN (FOR PLANNING ONLY)
- NEW PUBLIC WATER LINE
- NEW PRIVATE WATER SERVICE W/ HYDRANT
- NEW PRIVATE GAS/RNG DELIVERY LINE
- EXISTING PUBLIC SANITARY SEWER GRAVITY LINE W/ MANHOLE
- EXISTING PUBLIC SANITARY SEWER FORCEMAIN
- EXISTING GAS LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING WATER LINE W/ HYDRANT



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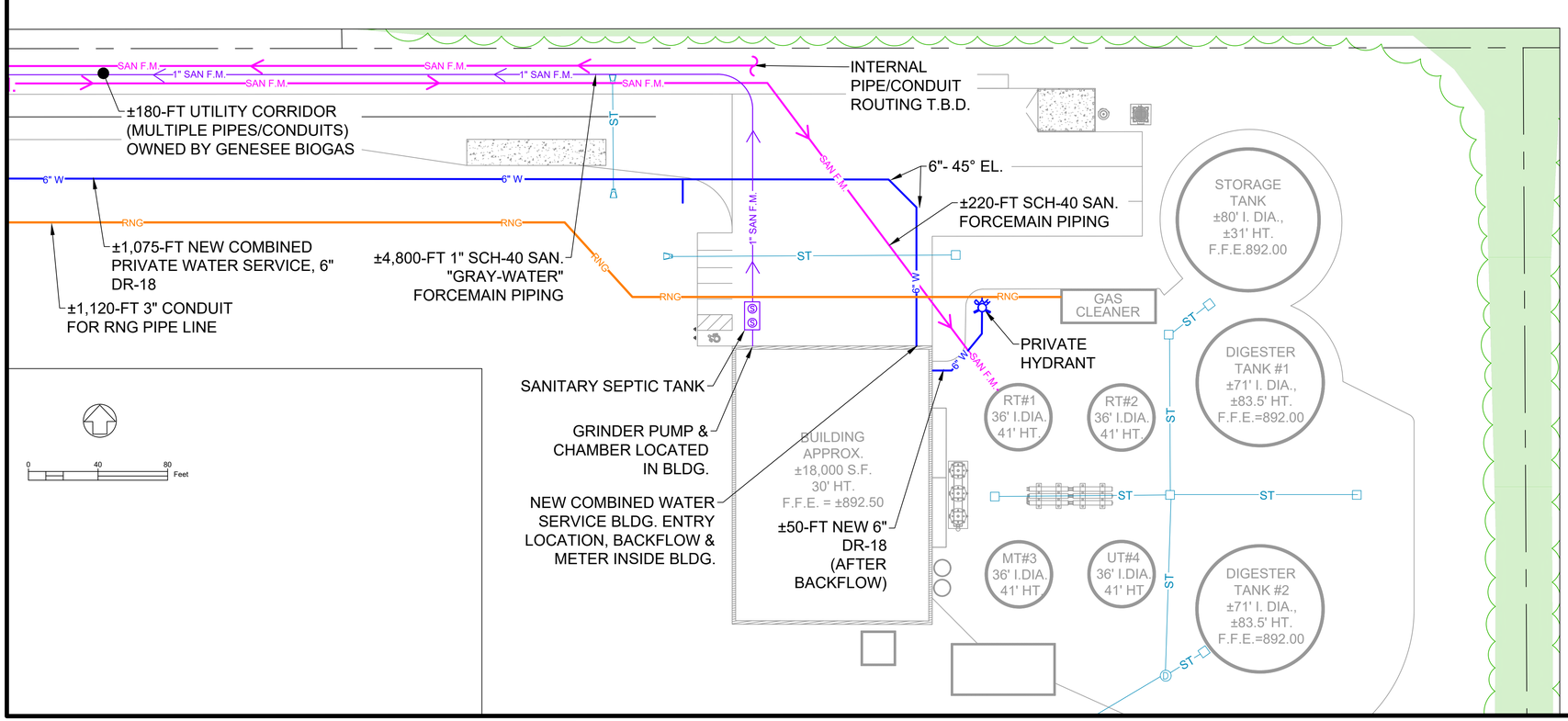
Scale: 1" = 500'



No.	Revision/Issue	Date

Revisions

Notes & References

CONTRACTOR SHALL CONTACT "DIG SAFELY" NEW YORK @ 1-800-962-7962 FOR LOCATION OF ALL UTILITIES, AT LEAST 7 DAYS PRIOR TO BEGINNING CONSTRUCTION

Applicant

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Engineer's Seal

STATE OF NEW YORK · SARA LYNN GILBERT · 087296 · LICENSED PROFESSIONAL ENGINEER

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Engineer

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Project Name and Address

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Genesee Valley Agribusiness Park
W Ag Park Dr
Town of Batavia
Genesee County, New York

APPROVAL SIGNATURE:

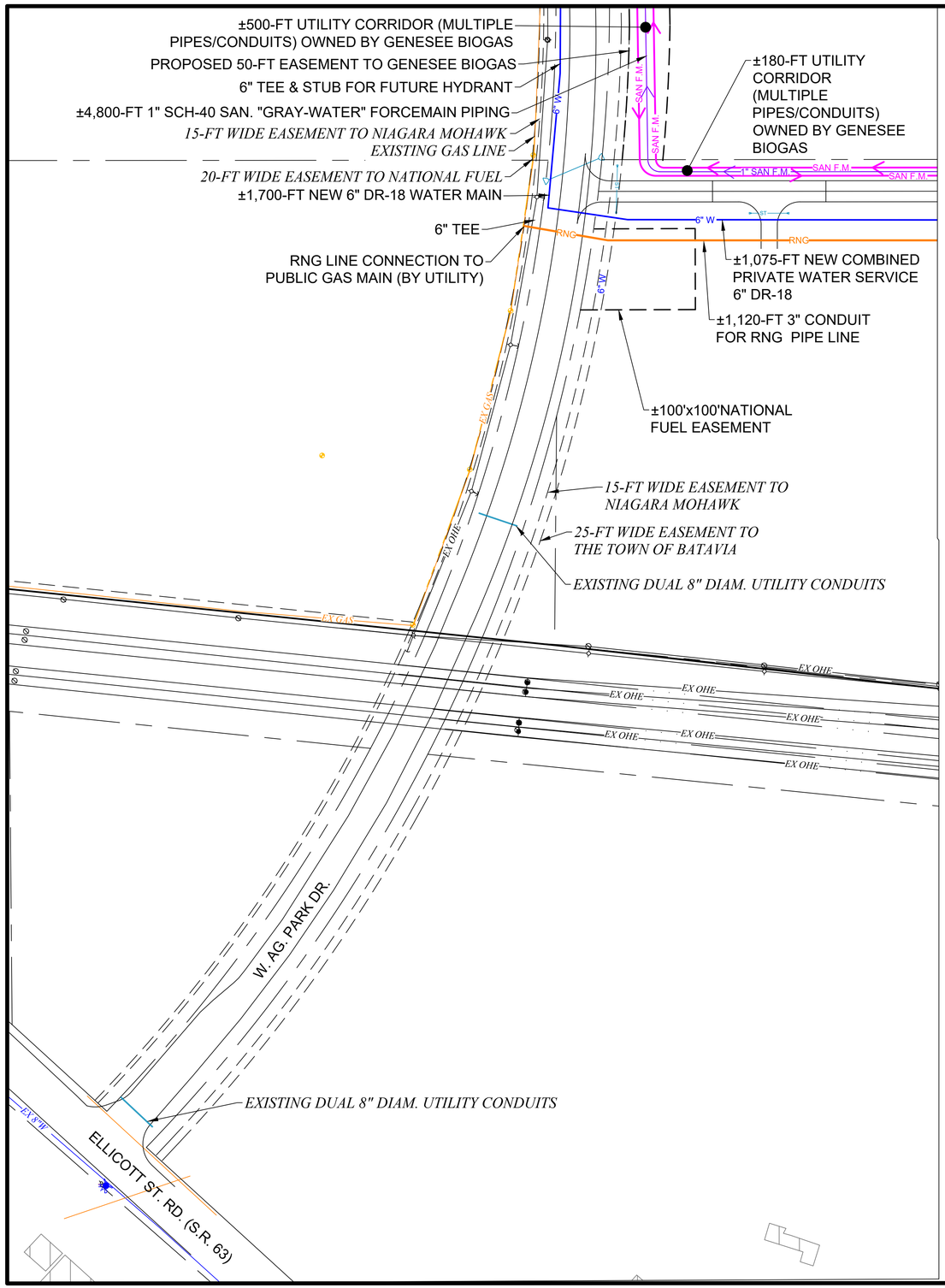
STEVEN J. MOUNTAIN, P.E.
TOWN OF BATAVIA - TOWN ENGINEER

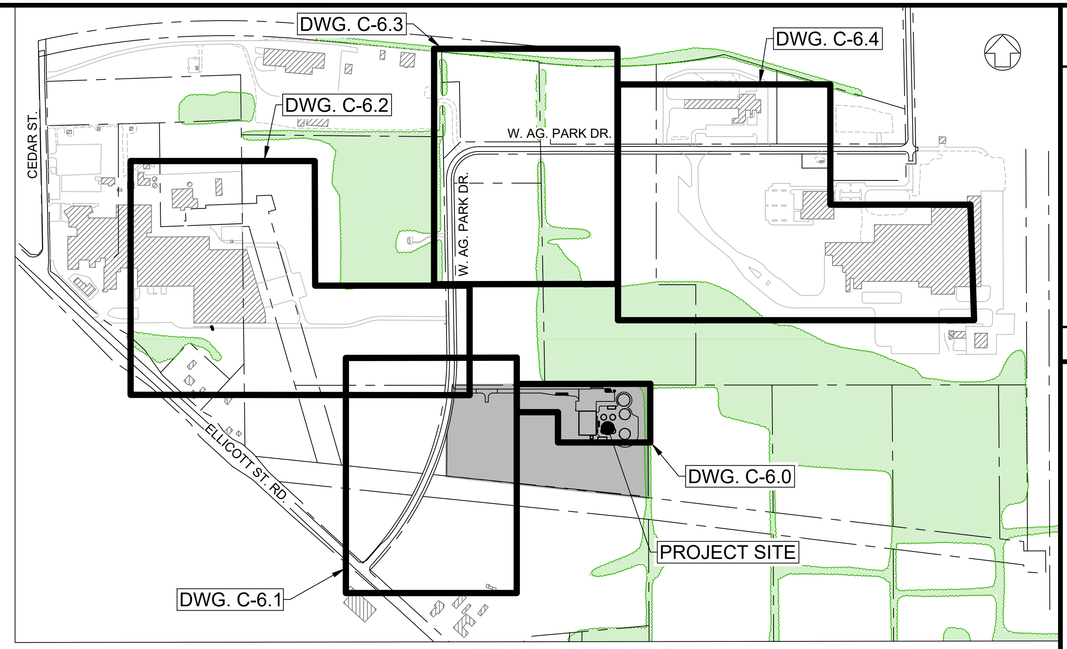
DATE

Drawing Name

UTILITY PLAN - I

Sheet	Drawing Number
13 OF 20	C-6.0
Date: 6/23/2023	
Scale: 1" = 40'	





DRAWING KEY MAP
Scale: 1" = 500'

UTILITY PLAN LEGEND

- NEW PRIVATE UTILITY CORRIDOR (MULTIPLE PIPES)
- NEW PRIVATE SANITARY SEWER FORCEMAIN (& FLOW DIRECTION ARROW)
- FUTURE PRIVATE SANITARY SEWER FORCEMAIN (FOR PLANNING ONLY)
- NEW PUBLIC WATER LINE
- NEW PRIVATE WATER SERVICE W/ HYDRANT
- NEW PRIVATE GAS/RNG DELIVERY LINE
- EXISTING PUBLIC SANITARY SEWER GRAVITY LINE W/ MANHOLE
- EXISTING PUBLIC SANITARY SEWER FORCEMAIN
- EXISTING GAS LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING WATER LINE W/ HYDRANT

APPROVAL SIGNATURE:

DATE

STEVEN J. MOUNTAIN, P.E.
TOWN OF BATAVIA – TOWN ENGINEER

No.	Revision/Issue	Date
	Revisions	

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Project Name and Address

GENESEE BIOGAS
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Town of Batavia
Genesee County, New York

Drawing Name

UTILITY PLAN - II

Sheet	Drawing Number
14 OF 20	C-6.1
Date: 6/23/2023	
Scale: 1" = 80'	

EXIST. SANITARY SEWER OUTFLOW LINES

PROPOSED OATKA CONNECTION POINT

±850-FT UTILITY CORRIDOR (MULTIPLE PIPES/CONDUITS) OWNED BY O-AT-KA

±1,060-FT UTILITY CORRIDOR (MULTIPLE PIPES/CONDUITS) OWNED BY O-AT-KA

±400-FT UTILITY CORRIDOR (MULTIPLE PIPES/CONDUITS) OWNED BY O-AT-KA

SAN F.M.

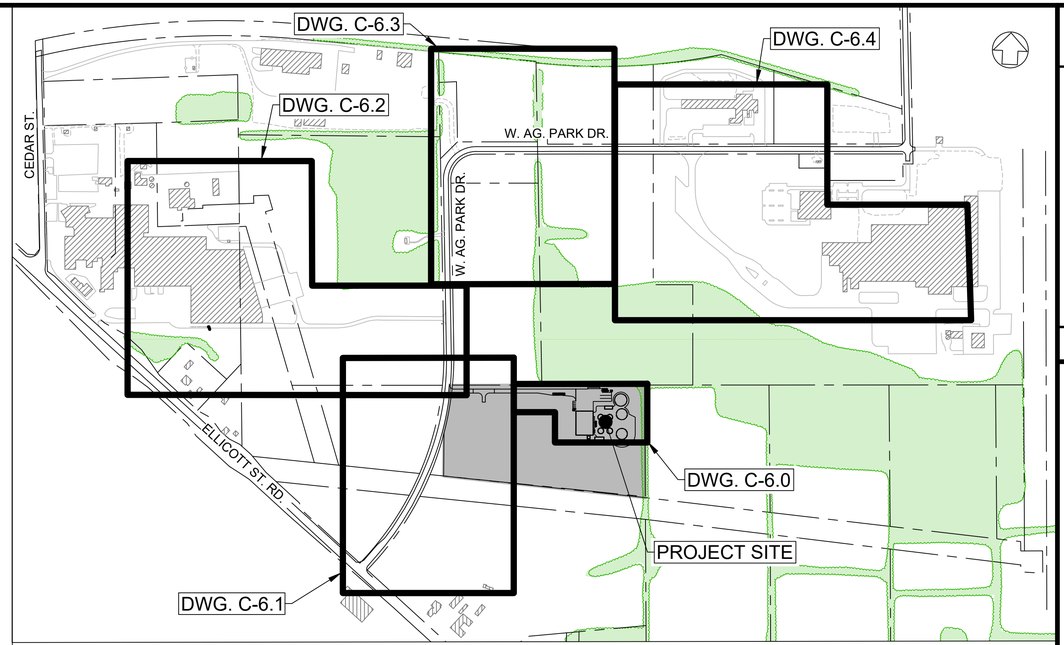
CITY OF BATAVIA

TOWN OF BATAVIA

O-AT-KA FACILITY

AGRI-BUSINESS INDUSTRIAL PARK

EX OHE



DRAWING KEY MAP
Scale: 1" = 500'

0 80 160 Feet

15-FT WIDE EASEMENT TO NIAGARA MOHAWK

6" TEE & STUB FOR FUTURE HYDRANT

25-FT WIDE EASEMENT TO THE TOWN OF BATAVIA

±4,800-FT 1" SCH-40 SAN. "GRAY-WATER" FORCEMAIN PIPING

±1,700-FT NEW 6" DR-18 WATER MAIN

EXISTING ±30' WIDE ASPHALT DRIVEWAY

EXISTING CULVERT

EXISTING OATKA SIGN

EXISTING LIGHT POLE

EXISTING ELECTRIC POLE (TYP.)

EXISTING DUAL 8" DIAM. UTILITY CONDUITS

±500-FT UTILITY CORRIDOR (MULTIPLE PIPES/CONDUITS) OWNED BY GENESEE BIOGAS

PROPOSED 50-FT EASEMENT TO GENESEE BIOGAS

6" TEE & STUB FOR FUTURE HYDRANT

±4,800-FT 1" SCH-40 SAN. "GRAY-WATER" FORCEMAIN PIPING

15-FT WIDE EASEMENT TO NIAGARA MOHAWK

EXISTING GAS LINE

20-FT WIDE EASEMENT TO NATIONAL FUEL

±1,700-FT NEW 6" DR-18 WATER MAIN

W. AG. PARK DR.

FUT. SAN F.M.

1" SAN F.M.

6" W

EX GAS

EX OHE

APPROVAL SIGNATURE:

STEVEN J. MOUNTAIN, P.E.
TOWN OF BATAVIA - TOWN ENGINEER

DATE

UTILITY PLAN LEGEND

- SAN F.M. — NEW PRIVATE UTILITY CORRIDOR (MULTIPLE PIPES)
- SAN F.M. — NEW PRIVATE SANITARY SEWER FORCEMAIN (& FLOW DIRECTION ARROW)
- 1" SAN F.M. — NEW PRIVATE SANITARY SEWER FORCEMAIN (FOR PLANNING ONLY)
- FUT. SAN F.M. — FUTURE PRIVATE SANITARY SEWER FORCEMAIN (FOR PLANNING ONLY)
- 6" W — NEW PUBLIC WATER LINE
- 6" W — NEW PRIVATE WATER SERVICE W/ HYDRANT
- RNG — NEW PRIVATE GAS/RNG DELIVERY LINE
- SAN — EXISTING PUBLIC SANITARY SEWER GRAVITY LINE W/ MANHOLE
- 10" SAN. F.M. — EXISTING PUBLIC SANITARY SEWER FORCEMAIN
- EX GAS — EXISTING GAS LINE
- EX OHE — EXISTING OVERHEAD ELECTRIC LINE
- EX 8"W — EXISTING WATER LINE W/ HYDRANT

No.	Revision/Issue	Date
	Revisions	

Notes & References

CONTRACTOR SHALL CONTACT "DIG SAFELY" NEW YORK @ 1-800-962-7962 FOR LOCATION OF ALL UTILITIES, AT LEAST 7 DAYS PRIOR TO BEGINNING CONSTRUCTION

Applicant

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Engineer's Seal

STATE OF NEW YORK
SARA LYNN GILBERT
087296
LICENSED PROFESSIONAL ENGINEER

PRELIMINARY
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Engineer

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Phone: (585) 261-7852

Project Name and Address

GENESEE BIOGAS
Genesee Valley Agribusiness Park
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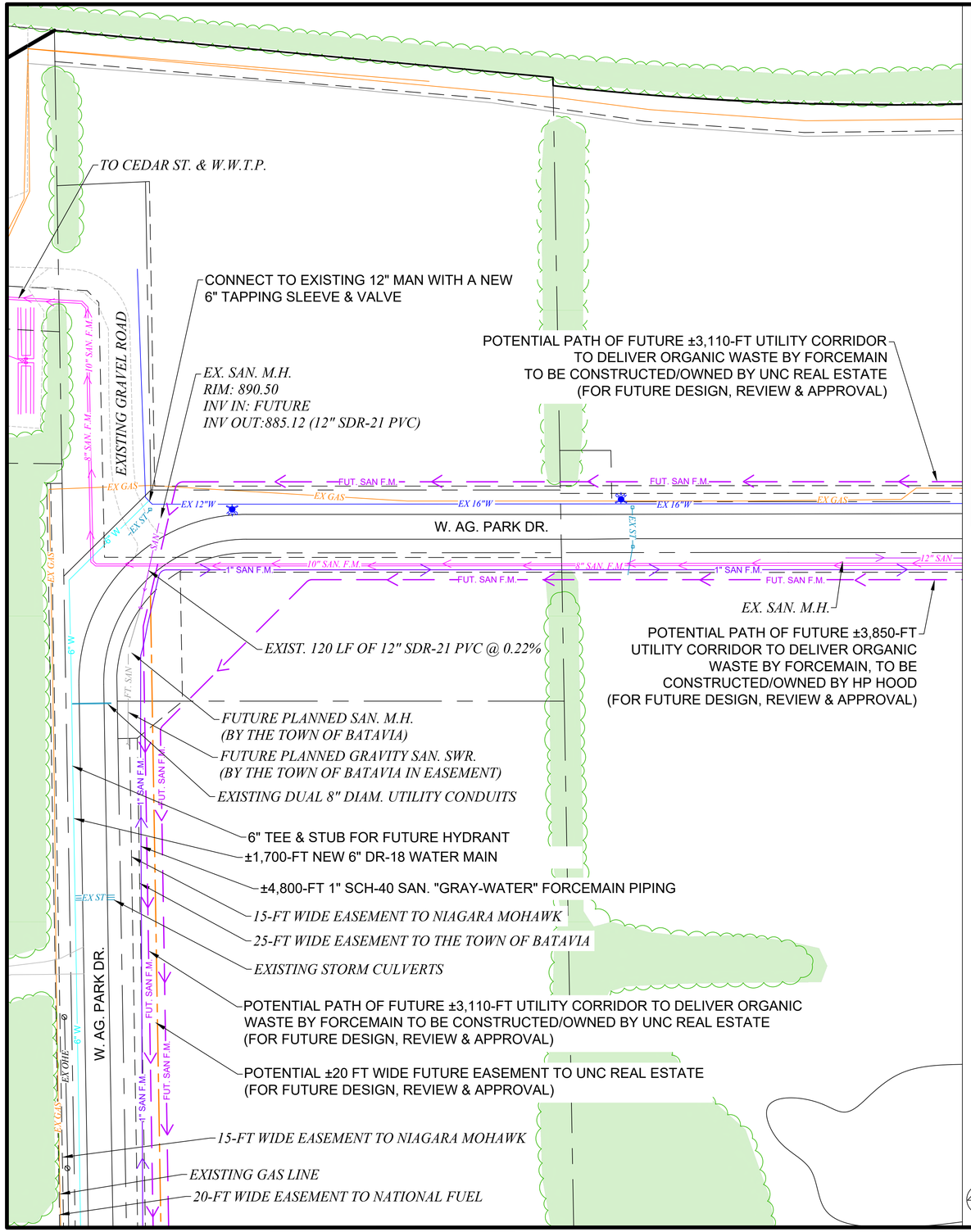
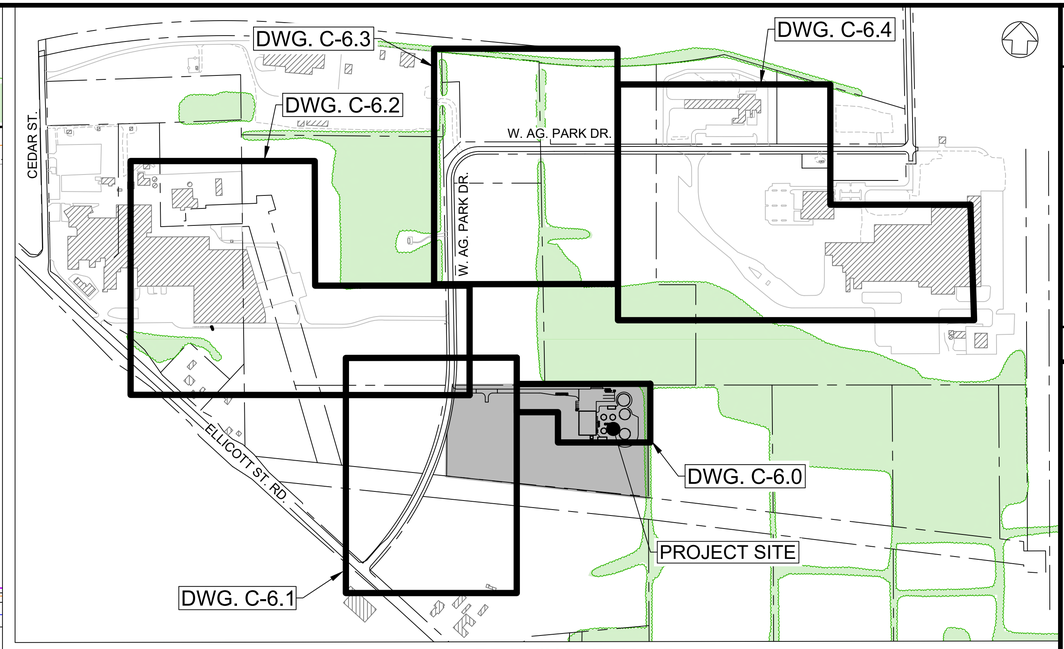
Town of Batavia
Genesee County, New York

Drawing Name

UTILITY PLAN - III

Sheet	Drawing Number
15 OF 20	C-6.2
Date: 6/23/2023	
Scale: 1" = 80'	





DRAWING KEY MAP
Scale: 1" = 500'

UTILITY PLAN LEGEND

- SAN F.M. — NEW PRIVATE UTILITY CORRIDOR (MULTIPLE PIPES)
- SAN F.M. — NEW PRIVATE SANITARY SEWER FORCEMAIN (& FLOW DIRECTION ARROW)
- 1" SAN F.M. — NEW PRIVATE SANITARY SEWER FORCEMAIN (& FLOW DIRECTION ARROW)
- FUT. SAN F.M. — FUTURE PRIVATE SANITARY SEWER FORCEMAIN (FOR PLANNING ONLY)
- 6" W — NEW PUBLIC WATER LINE
- 6" W — NEW PRIVATE WATER SERVICE W/ HYDRANT
- RNG — NEW PRIVATE GAS/RNG DELIVERY LINE
- SAN — EXISTING PUBLIC SANITARY SEWER GRAVITY LINE W/ MANHOLE
- 10" SAN. F.M. — EXISTING PUBLIC SANITARY SEWER FORCEMAIN
- EX GAS — EXISTING GAS LINE
- EX OHE — EXISTING OVERHEAD ELECTRIC LINE
- EX 8"W — EXISTING WATER LINE W/ HYDRANT

0 80 160 Feet

APPROVAL SIGNATURE: DATE

STEVEN J. MOUNTAIN, P.E.
TOWN OF BATAVIA - TOWN ENGINEER

No.	Revision/Issue	Date

Revisions

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Project Name and Address

GENESEE BIOGAS
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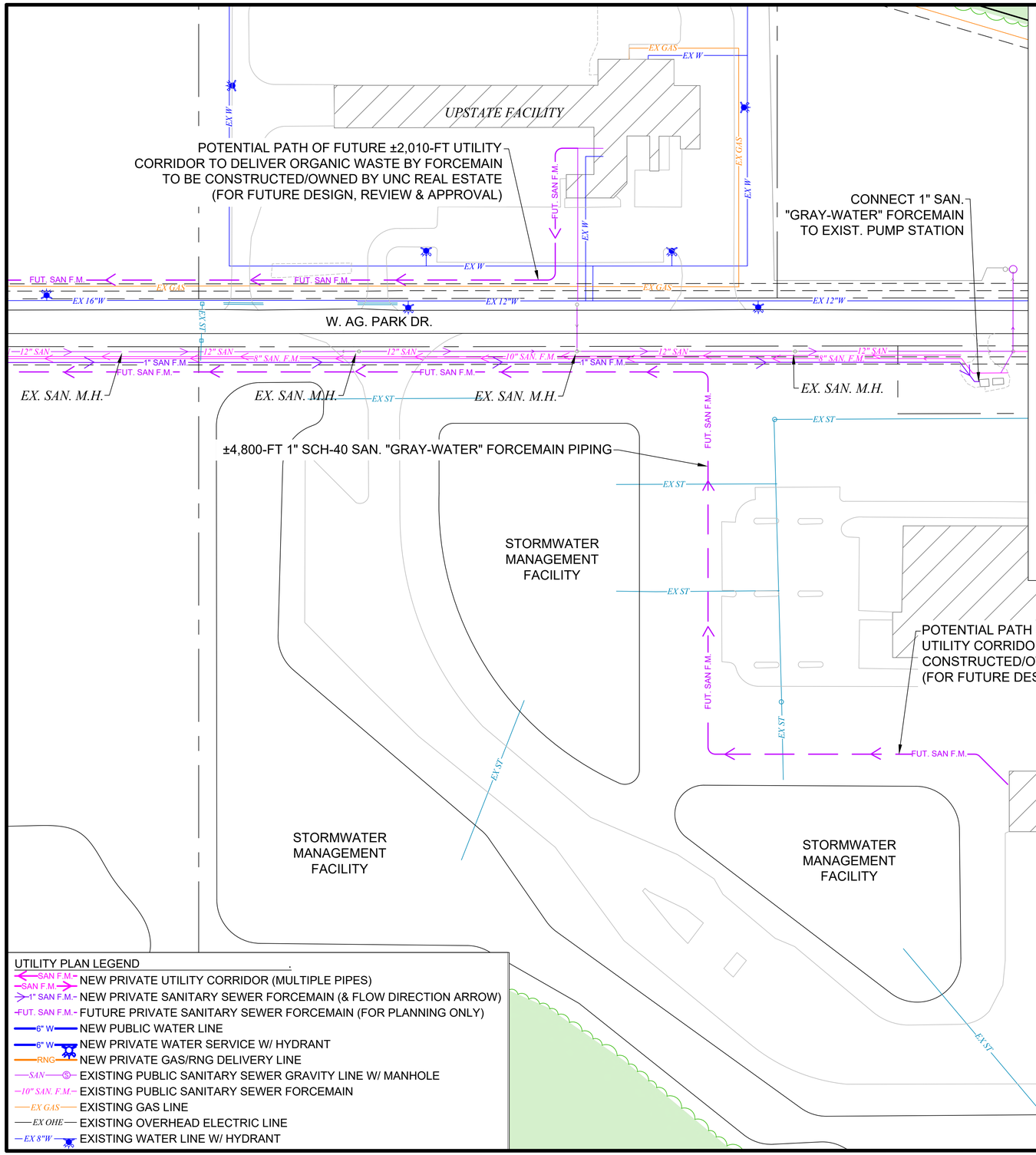
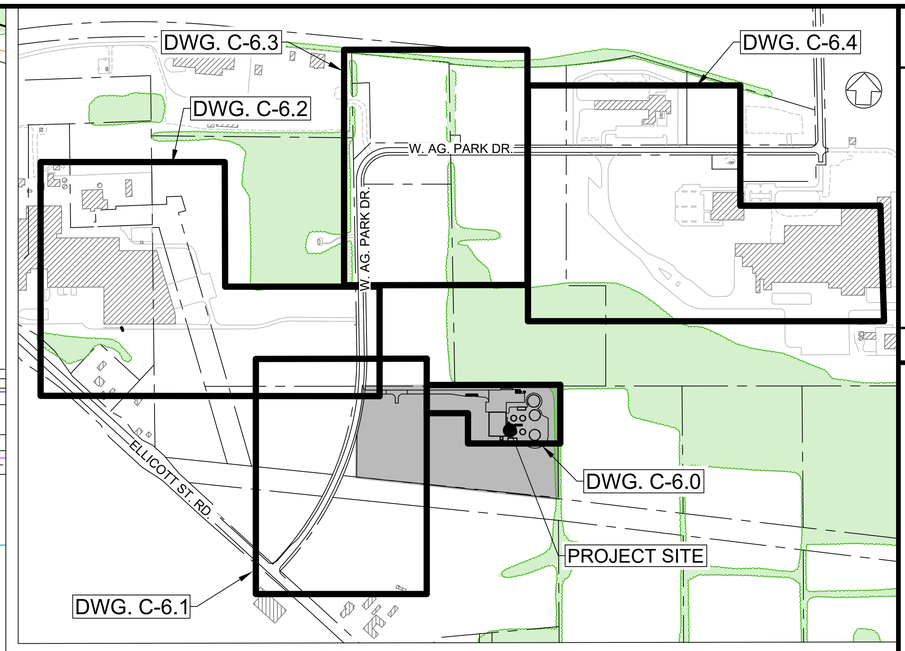
Town of Batavia
Genesee County, New York

Drawing Name

UTILITY PLAN - IV

Sheet	Drawing Number
16 OF 20	C-6.3
Date: 6/23/2023	
Scale: 1" = 80'	





DRAWING KEY MAP
Scale: 1" = 500'

0 80 160 Feet

APPROVAL SIGNATURE:
STEVEN J. MOUNTAIN, P.E.
TOWN OF BATAVIA – TOWN ENGINEER
DATE

No.	Revision/Issue	Date
	Revisions	

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Phone: (585) 261-7852

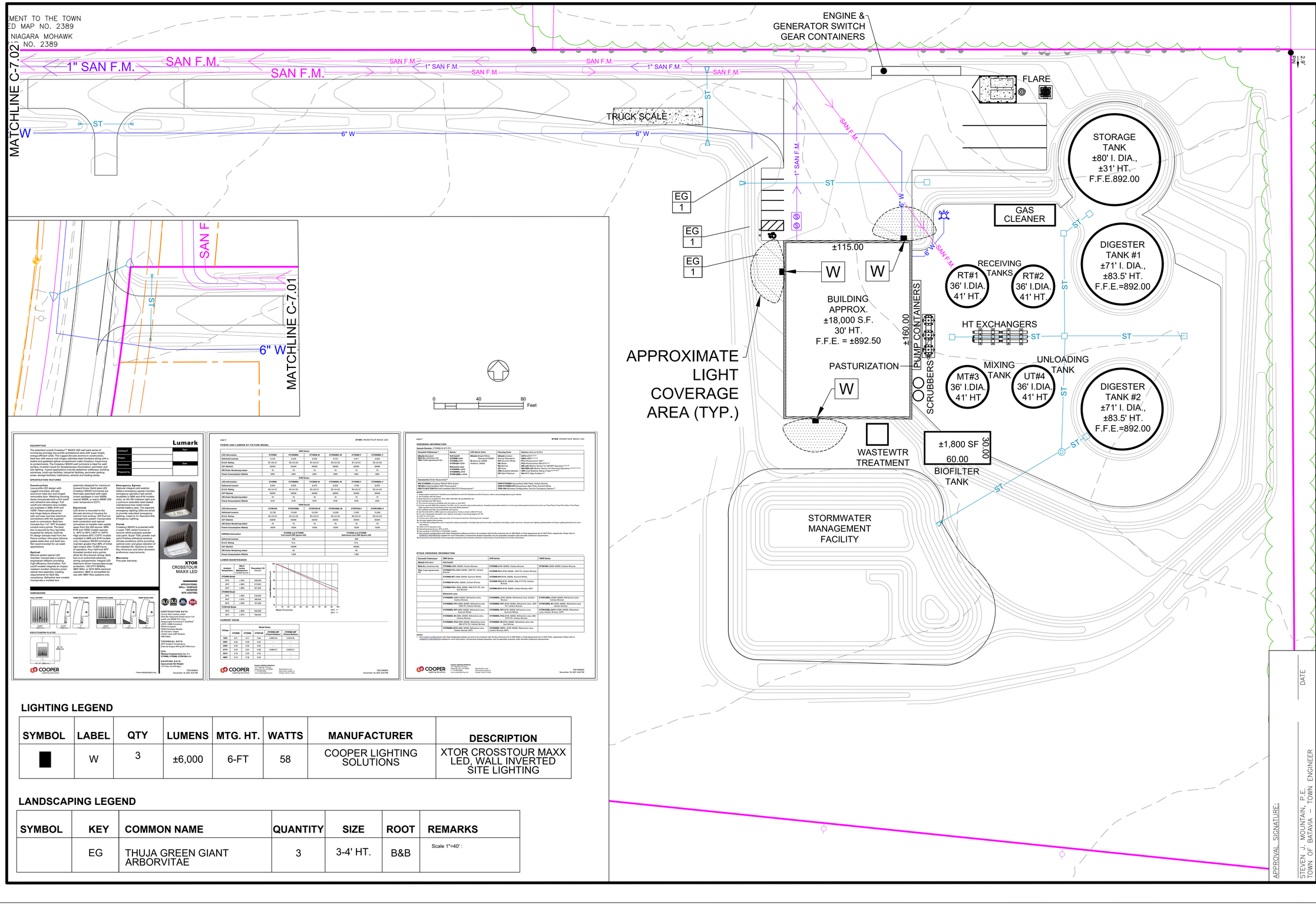
Project Name and Address

GENESEE BIOGAS
Genesee Valley Agribusiness Park
W Ag Park Dr
Town of Batavia
Genesee County, New York

Drawing Name

UTILITY PLAN - V

Sheet	Drawing Number
17 OF 20	C-6.4
Date: 6/23/2023	
Scale: 1" = 80'	



LIGHTING LEGEND

SYMBOL	LABEL	QTY	LUMENS	MTG. HT.	WATTS	MANUFACTURER	DESCRIPTION
■	W	3	±6,000	6-FT	58	COOPER LIGHTING SOLUTIONS	XTOR CROSSTOUR MAXX LED, WALL INVERTED SITE LIGHTING

LANDSCAPING LEGEND

SYMBOL	KEY	COMMON NAME	QUANTITY	SIZE	ROOT	REMARKS
	EG	THUJA GREEN GIANT ARBORVITAE	3	3-4' HT.	B&B	

Scale 1"=40' :

Revisions										Date	Revision/Issue	No.

Notes & References

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Project Name and Address

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W Ag Park Dr
Town of Batavia
Genesee County, New York

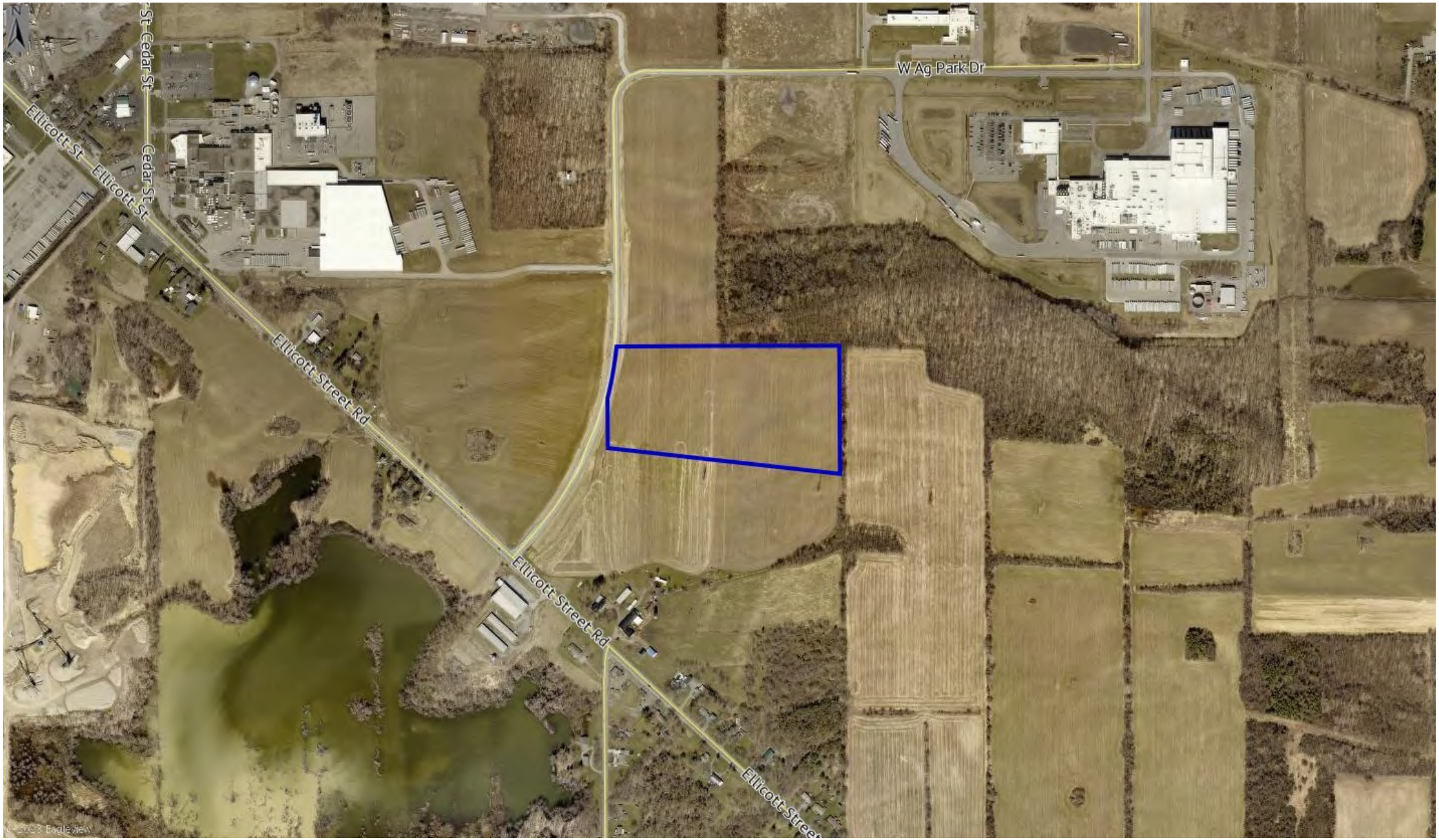
APPROVAL SIGNATURE: STEVEN J. MOUNTAIN, P.E. TOWN OF BATAVIA - TOWN ENGINEER DATE

Drawing Name

LIGHTING & LANDSCAPE PLAN

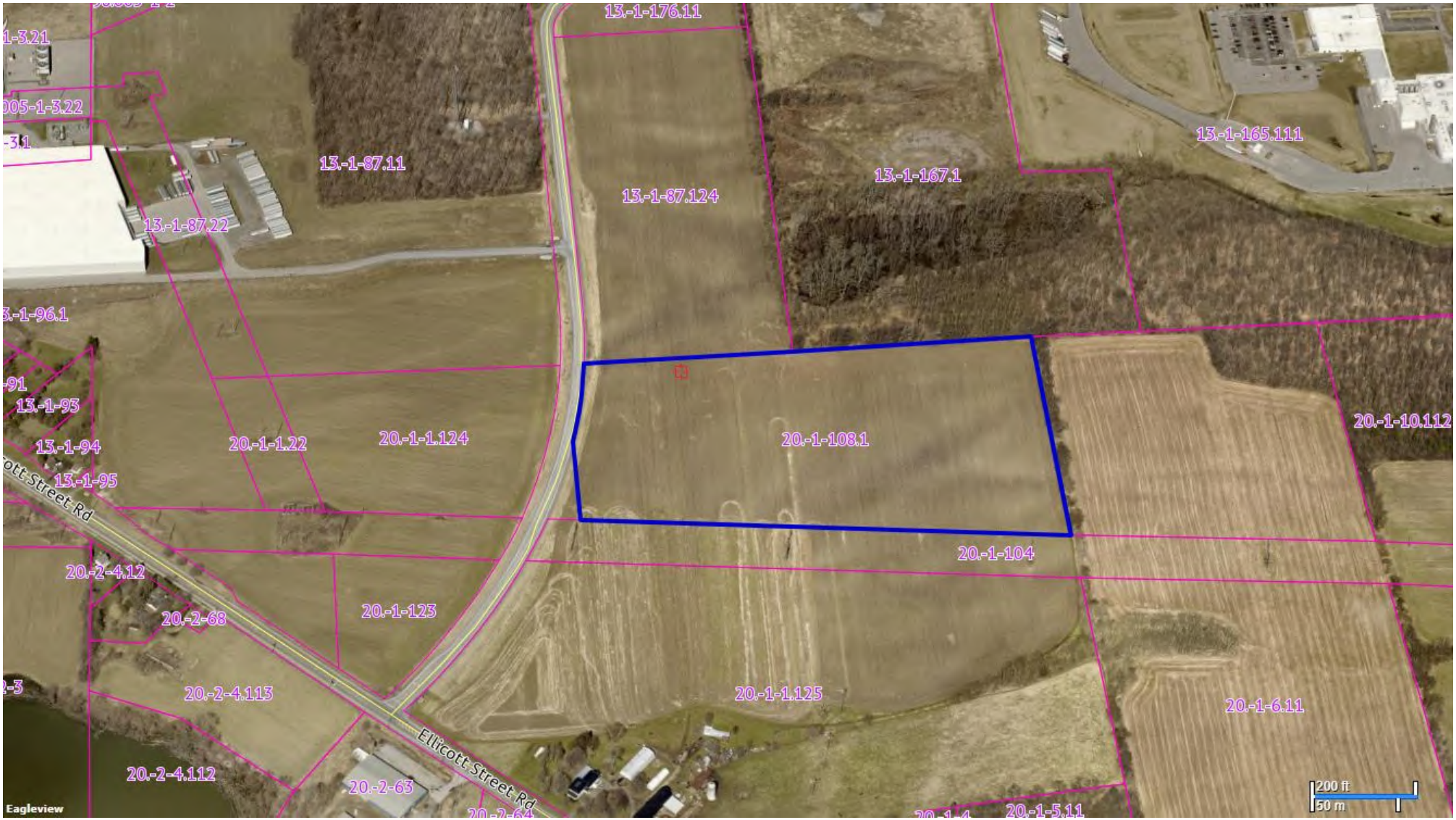
Sheet	Drawing Number
20 OF 20	C-7.0
Date: 6/23/2023	
Scale: 1" = 40'	

T-09-BAT-07-23



04/02/2023 - 04/08/2023

T-09-BAT-07-23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13.-1-165.111
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13.-1-93
13.-1-94
13.-1-95
20.-1-1.22
20.-1-1.124
20.-1-108.1
20.-1-10.112
20.-1-104
20.-2-4.12
20.-2-68
20.-1-123
20.-2-4.113
20.-1-1.125
20.-1-6.11
20.-2-4.112
20.-2-63
20.-1-5.11
Ellicott Street Rd
Eagleview
200 ft
50 m