

TOWN OF INDEPENDENCE
COUNTY OF ALLEGANY, STATE OF NEW YORK
APPLICATION FOR SOLAR ENERGY SYSTEM/FACILITY

APPLICATION NUMBER: _____
DATE APPLICATION WAS RECEIVED: _____

1. NAME OF APPLICANT:
NY Independence State Route 248 Solar LLC
2. ADDRESS OF APPLICANT: 850 Canal Street, Suite 3D
Stamford, CT 06902
3. NAME OF REPRESENTATIVE OF APPLICANT: Bradley Davis
CONTACT INFORMATION: bradley.davis@renesolapower.com

WHAT TYPE OF SOLAR SYSTEM/FACILITY IS BEING PROPOSED:

TIER 1: _____

TIER 2: _____

TIER 3: X

ON A SEPARATE PAGE PROVIDE A BRIEF DESCRIPTION OF THE PROPOSED PROJECT.

4. REQUIRED INFORMATION ABOUT THE PROPOSED SOLAR ENERGY SYSTEM/FACILITY:
WHAT IS THE ADDRESS FOR THE PROPOSED SITE? 1550 State Rte 248, Independence, NY 14897
WHAT IS THE TOTAL ACREAGE OF THE PROJECT SITE? 261.1 acres
WHAT IS THE ACREAGE OF THE PROPOSED SOLAR SYSTEM/FACILITY? 8.3 acres
WHAT IS THE PROJECTED ELECTRICAL POWER OUTPUT FOR THE PROPOSED FACILITY? 1.748MW DC
WHAT IS THE CURRENT USAGE OF THE PROPOSED SITE? Agricultural
WHAT IS THE TAX ASSESSMENT IDENTIFICATION SBL #? 268.-1-11.2
WILL THE PREMISES BE OWNED OR LEASED BY THE APPLICANT? Leased

5. A. DOES THIS PROJECT MEET ALL OF THE REQUIREMENTS CONTAINED IN PARAGRAPH 6, 7 OR 8 OF THE TOWN'S LOCAL LAW REGULATING SOLAR ENERGY SYSTEMS/FACILITIES? Yes

IF IT DOES NOT MEET ALL REQUIREMENTS PROVIDE A DETAILED DESCRIPTION OF ANY DEVIATIONS FROM THOSE REQUIREMENTS.

6. HAS THE REQUIRED PERMIT APPLICATION FEE BEEN PAID TO THE TOWN? Will be paid upon application submission
7. WILL THE ON-SITE UTILITY LINES BE PLACED UNDERGROUND AS REQUIRED BY PARAGRAPH 8(B) OF THE TOWN'S LOCAL LAW? IF NOT, WHAT PLACEMENT IS PROPOSED? Yes, to the extent feasible
8. WHAT SIGNAGE IS PROPOSED FOR THIS SYSTEM/FACILITY? APPLICANT MUST PROVIDE PICTURES OR DRAWINGS OF ALL PROPOSED SIGNS. See attached Application Package

9. WILL THE SOLAR PANELS BE COVERED WITH ANTI-REFLECTIVE COATING AS REQUIRED BY THE TOWN'S LOCAL LAW? APPLICANT MUST PROVIDE SPECIFICATIONS FOR THE PANELS AND ANY COATINGS. Yes, see attached Application Package
10. WHAT LIGHTING IS PROPOSED FOR THE PROPOSED PROJECT SITE? APPLICANT MUST PROVIDE DETAILED SPECIFICATIONS WITH THIS APPLICATION. None.
11. WHAT TREE-CUTTING IS PROPOSED IS ANTICIPATED TO TAKE PLACE ON THE PROPOSED PROJECT SITE? APPLICANT MUST PROVIDE DETAILED INFORMATION AND DEMONSTRATE COMPLIANCE WITH ANY STATE OR FEDERAL REGULATIONS. None
12. APPLICANT MUST ATTACH ITS PROPOSED DECOMMISSIONING PLAN FOR THIS SYSTEM/FACILITY. THAT PLAN MUST COMPLY WITH THE PROVISIONS OF PARAGRAPH 8(H) OF THE TOWN'S LOCAL LAW. See attached Application Package
13. HAS APPLICANT SUBMITTED A SITE PLAN TO THE TOWN FOR REVIEW AND ANALYSIS BY THE TOWN? IF NOT, SUCH A SITE PLAN CONTAINING ALL INFORMATION SPECIFIED IN PARAGRAPH 8(I) OF THE TOWN'S LOCAL LAW MUST BE SUBMITTED TO THE TOWN BOARD BEFORE THIS APPLICATION CAN BE APPROVED. Yes, see attached Application Package
14. DOES THE PROPOSED SYSTEM/FACILITY PROJECT SITE CONTAIN ANY STATE OR FEDERAL REGULATED WETLANDS? APPLICANT MUST PROVIDE A REPORT DESCRIBING ITS PLAN TO PROTECT ANY REGULATED WETLANDS ON THE PROPOSED PROJECT SITE.
Site contains Federal Wetlands. See Wetland Report and Protection Plan in Permit Application
15. HAS APPLICANT CONDUCTED AN INVESTIGATION TO DETERMINE IF THERE ARE ANY HISTORICALLY SENSITIVE SITES ON THE PROPOSED SYSTEM/FACILITY SITE? ARE THERE ANY SENSITIVE ARCHEOLOGICAL SITES ON THE PROPOSED PROJECT SITE? HAS THE APPLICANT OBTAINED ANY APPROVALS OR LETTERS OF COMPLIANCE FROM THE STATE PARKS, RECREATION, AND HISTORIC PRESERVATION? APPLICANT MUST SUBMIT ALL AVAILABLE DATA TO THE TOWN. Yes, review has been completed. See Permit Application.
16. DOES THE PROPOSED SYSTEM/FACILITY COMPLY WITH THE "SPECIAL PERMIT STANDARDS" SET OUT IN PARAGRAPH 8(J) OF THE TOWN'S LOCAL LAW? APPLICANT MUST PROVIDE A DETAILED SUMMARY SHOWING THE INFORMATION REQUIRED BY PARAGRAPH 8(J). See attached file.
17. APPLICANT MUST PROVIDE DOCUMENTATION SHOWING THAT ITS PROPOSED SYSTEM/FACILITY FULLY COMPLIES WITH THE SCREENING AND VISIBILITY REQUIREMENTS SET FORTH IN PARAGRAPH 8(J)(6). See attached file.
18. IF THE PROPOSED SYSTEM/FACILITY IS LOCATED ON PRIME FARMLAND OR FARMLAND OF STATEWIDE IMPORTANCE THE APPLICANT MUST PROVIDE WRITTEN DOCUMENTATION SPECIFIED IN PARAGRAPH 8(J)(7). See attached file.

19. WILL THE APPLICANT PROVIDE THE TOWN WITH A CERTIFICATE THAT THE PROPOSED FACILITY COMPLIES WITH THE APPLICABLE ELECTRICAL AND/OR BUILDING CODES? WHEN DOES THE APPLICANT ANTICIPATE THOSE CERTIFICATIONS WILL BE PROVIDED?
Yes. Once the safety authorities have provided sign off on commissioning.

20. APPLICANT MUST PROVIDE THE TOWN OR ITS DESIGNATED REPRESENTATIVE WITH SPECIFICATIONS FOR ALL EQUIPMENT PROPOSED TO BE PLACED ON THE PROJECT SITE. SPECIFICATIONS MUST BE PROVIDED FOR THE SOLAR PANELS, RACK EQUIPMENT, ANY ELECTRICAL INSTALLATIONS, ANY STORAGE BATTERY FACILITIES, AND FENCING.
Confirmed. See attached Permit Application

BY SIGNING AND SUBMITTING THIS APPLICATION THE ABOVE-NAMED APPLICANT AGREES TO ONGOING COMPLIANCE WITH THE TOWN'S SOLAR ENERGY SYSTEM/FACILITIES LOCAL LAW. APPLICANT ALSO AGREES TO REIMBURSE THE TOWN FOR ALL OF ITS REASONABLE CODE ENFORCEMENT, LEGAL AND ENGINEERING EXPENSES INCURRED IN RELATION TO CONSIDERATION OF THIS APPLICATION, AND ANY REQUIRED INSPECTIONS OR ENFORCEMENT PROCEEDINGS.

DATED: 11/6/2020

NAME, SIGNATURE AND TITLE OF AUTHORIZED OFFICER AND/OR REPRESENTATIVE OF THE APPLICANT



John Ewen - President

NY Independence State Route 248 Solar LLC

Project Overview

Renesola Power Holdings LLC is proposing to build a new solar farm on a property located at 1550 SR-248 Whitesville, NY 14897, owned by Gene Kosa and with the tax Parcel ID 268.1-11.2. The project site occupies an area of 15-acre leased by Renesola.

Proposed Location

This location was chosen due to its proximity to 3-phase electrical distribution lines, association with a utility substation that has appears to have significant capacity to handle the electrical generation of a solar farm, the fact that the land is mostly cleared and flat so as to require minimal-to-no grading for constructing the facility, and the interest of the landowner in having a solar farm on his property.

Proposed Design

Solar panels will be installed in parallel rows as shown on the project map. Each panel will be approximately 2 meters high and 1 meter wide. In order to maximize power production a single axis tracker racking system has been chosen. Each row is composed of trackers with a minimum of 1x26 panels long or multiples of this. The rows will span the width of the project area, face East/West supported by a single-axis tracking system that is secured to the ground using embedded piles.

The solar panels will be wired together and connected to electrical boxes. Underground cabling will be installed to connect the boxes to inverter stations and switchgear. Connection to grid will be done over-head to a 4.8kV utility feeder located on Casey Road.

All the proposed work and equipment will comply with US standards and certifications, and it will take place within the identified property.

Interconnection Details

Interconnection (POI) to the utility grid (National Grid) will be done at the 4.8kV three phase over-head feeder running at Casey Road and connecting to New Whitesville substation. This project will meet the latest New York State Standardized Interconnection Requirements (SIR).

Wetlands

Wetland areas were assessed as waters of the U.S. subject to USACE jurisdiction, and as freshwater wetlands subject to NYSDEC regulation. The final boundary and jurisdictional status of on-site features is subject to approval by both the USACE and NYSDEC.

Renesola will undertake certain mitigation measures to ensure that the Wetlands are not impacted by the

construction and installation of the solar project.

The first mitigation strategy is to minimize the total impervious areas, which includes the gravel driveway from Casey Road up to the project site gate, the gravel access road inside our fenced area, and the concrete pads total is approximately 0.054 acres. This falls under the 0.10 acres compensatory mitigation per USACE criteria.

The second mitigation strategy is that we will use driven piles and/or helical piles for the racking foundation. USACE does not recognize the installation of driven piles/helical piles into “Emergent wetlands (or non-woody wetlands)” fill, and therefore this action is non-jurisdictional. We have completed this for many projects and have received authorization from the USACE to proceed accordingly.

The USACE regulates the discharge of fill material into waters of the US (including wetlands), driving piles/fence posts/installing screw piles is not considered fill, and therefore no permit is required to undertake these activities. If these wetlands were woody, and tree removal/stumping would occur, then that would trigger a regulatory action. The wetlands at this site are emergent, and therefore this does not apply.

Cultural Resource Assessment

Renesola has reviewed the New York Cultural Resource Information System. Please note that there are no known historic structures near the site and that the project is not identified as an area of archaeological sensitivity.

Fencing

The new solar farm will be entirely surrounded by a 7 foot chain linked fence, topped with barbed wire for public safety and site security. There will be a 20ft setback from the fence to the array.

A setback distance of 100ft between the solar array and the adjacent property, as well as between the solar array and surrounding roads’ center line, has been considered.

Jasmine Bledsoe, Clerk
Town of Independence
887 Marietta Ave, PO Box 38 Whitesville
NY 14897

Dear Ms. Bledsoe,

This is a 1.748 MW DC ground mounted solar farm located 1550 State Route 248 Whitesville, NY 14897. The decision to transfer agricultural land to solar farms brings up many issues for surrounding landowners which we will address below.

This letter will briefly discuss:

- Light reflection from panels
- Water runoff
- Noise
- Security
- Pollution of the ground
- Harm to local plants and animals
- Negative aesthetic impact
- Property Devaluation

Light Reflection from Panels

Light reflection can be a real concern since the glass covering of panels are reflective and could cause annoyance. There are no residences to the North, South, East & West that could experience issues from light reflection. Also, all the panels are manufactured with an anti- reflective coating.

Water Runoff

In practice, early in the development stages, the potential impact to the environment, as well as water runoff, is assessed and appropriate mitigation measures are planned. Developers and installers work closely with the local authorities to assess a projects impact and get proper permitting. We stay closely engaged with the landowners and work to address their concerns. General land maintenance such as actively maintaining ditch banks by removing unwanted vegetation or soil will also be implemented.

Noise

The noise created by the inverters at 1m is <65db. This is in the range of an air conditioner. The farther away the softer the sound. Furthermore, this solar farm is not constructed directly adjacent to any residences.

Security

A 7 foot high barb wire fence will be constructed around the entirety of the solar farm. There will be a gate with limited access.

Pollution of the Ground

Installation of the solar farm will be done in such a way as to comply with local government agencies and have as little impact on the environment as possible. Ground pollution is negligible with any solar panel installation.

Harm to Local Plants and Animals

This solar farm will not remove any habitats of local species and is working with agencies to make sure no endangered species habitats in the area are disrupted. Additionally, native plants and vegetation will be planted in close vicinity to the solar farm to invite pollination and help native animal and plant life to flourish.

Negative Aesthetic Impact

Solar farms have an extremely low visual profile in terms of height than virtually any other type of power plant. Also, this solar farm is not directly adjacent to any residences so as not create any eye sores for homeowners. In addition, a natural landscape buffer will be added to minimize visibility from roads and adjacent parcels.

Overall, the above concerns will have minimal or no impact on adjacent properties.

Best Regards,

A handwritten signature in blue ink that reads "B. Davis".

Bradley Davis

**APPENDIX 4:
TOWN OF INDEPENDENCE
SOLAR SYSTEM/FACILITY DECOMMISSIONING PLAN**

Date: 11/6/2020

Decommissioning Plan for NY Independence State Route 248 Solar LLC
Solar Project Name],

located at: 1550 State Route 248

Independence, NY, 14897

Prepared and Submitted by [Solar Developer Name], the owner of [Solar Farm Name]
As required by The Town of Independence, [Solar Developer Name] presents this
decommissioning plan for [Solar Project Name] (the "Facility").

Decommissioning will occur as a result of any of the following conditions:

1. The land lease, if any, ends;
2. The system does not produce power for 12 months; or
3. The system is damaged and will not be repaired or replaced.
4. The owner of the Facility, as provided for in its lease with the landowner, shall restore the property to its condition as it existed before the Facility was installed, pursuant to which may include the following:
 5. Removal of all operator-owned equipment, concrete, conduits, structures, fencing, and foundations to a depth of 36 inches below the soil surface.
 6. Removal of any solid and hazardous waste caused by the Facility in accordance with local, state and federal waste disposal regulations.
 7. Removal of all graveled areas and access roads unless the landowner requests in writing for it to remain.

All said removal and decommissioning shall occur within 12 months of the Facility ceasing to produce power for sale.

The owner of the Facility, currently Renesola Power Holdings LLC, is responsible for this decommissioning.

Facility Owner Signature:  Date: 11/6/2020

Decommissioning & Reclamation Plan

NY Independence State Route 248 Solar LLC

1550 State Route 248 Independence, NY 14897

APN# 268.-1-11.2



Contact Information:

ReneSola Power Holdings, LLC

850 Canal Street, Suite 3D

Stamford, CT 06902

bradley.davis@renesolapower.com

Telephone: (647) 624-4566

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1. INTRODUCTION

The purpose of this document is to outline the operation, maintenance, and the decommissioning plan for ReneSola's proposed 1.748 MW DC photovoltaic solar electric generating facility (PVSGF) NY Independence State Route 248 Solar LLC. This plan covers the initial commissioning, long-term operation, and outlines decommissioning the facility at the end of its service. The PVSGF will be built on private land owned by the Walvoord Trust. ReneSola has entered into an agreement to lease the land for 30 years.

The photovoltaic solar electric generating system will be a facility that participates in NYSEG's Community Distributed Generation (CDG) Program

The facility generates electricity by harvesting the sun's energy through 1716 anti-reflective with 500 Watt direct current (DC) photovoltaic mono-crystalline panels. The PVSGF would generate clean renewable energy from solar power. The generated energy would be sold to various local off-takers. The PVSGF project is in the application process for a Special Use Permit and Site Plan Review approval from the Town of Independence, NY under the project company name NY Independence State Route 248 Solar LLC.

SYSTEM DESCRIPTION

System Description: 1.748 MW Solar photovoltaic power system

Location: 1550 State Route 248, Independence, NY 14897

Utility Granting Operating Permission: National Grid

Operator Representative: Bradley Davis

Emergency Contacts for Site: To be determined once an O&M provider is chosen

LOCATION

The project site is located on about 8.39 acres of a 261.6 acre site (see the below image). The parcel has a current designation as Ag district and the project area has been used for agricultural purposes. The PVSGF site is located between Casey Road on the North side and Route 248 on the South side.



2. Procedures for Decommissioning after Ceasing Operation

The Project has an estimated useful lifetime of 35 years or more with equipment replacement and repowering. This section, however, assumes that at the end of the 25 year power generation contract with NYSEG, the system will be completely dismantled and the site restored to its preconstruction state unless the power purchase agreement is extended or otherwise transitioned over to the compensation structure in effect at that time.

ReneSola is committed to improving the global environment. Therefore, as a renewable energy developer, ReneSola is dedicated to recycling as many of the products as possible throughout the project site. Along with the recycling of the used equipment on the project we will minimize waste throughout the decommissioning process.

The decommissioning and reclamation plan is intended to provide a secure mechanism for the removal of the solar energy equipment at the end of the life cycle of the system and restoring the land to its previous agricultural condition, estimated to take approximately 120-150 days.

It is not expected that any water courses, hazards or bodies will be impacted by the renewable energy project based on a review of the NYSDEC Environmental Resources Mapper and the National Wetlands

Inventory Mapper. The required setbacks will be respected in the site layout. As a result, no specific restoration of the water courses, either during construction or decommissioning, is planned.

2.1 PV Module Collection and Recycling

ReneSola will be utilizing solar PV modules with recycling plans to promote the collection and recycling of modules and to minimize the potential for modules to be disposed of as municipal waste. Alternatively, solar panels with remaining useful life can be sold for other applications. The module recycling program includes the glass and the encapsulated semiconductor material, which will be collected by the manufacturer and recycled into new solar modules or other products.

Some key elements of recycling PV Modules include:

- **Collection:** ReneSola will manage the logistics of collecting the modules and provide packing and transportation to the recycling center. The module owner's only requirement is to dismantle and package the modules in accordance with the Mann Engineering's instructions;
- **Recycling:** The module manufacturer, or a comparable recycler, will recycle or reuse as much of the module as possible. All recycling processes are monitored to ensure compliance with applicable regulatory requirements regarding occupational health & safety, recycling, waste management, etc. Any elements that cannot be recycled will be disposed of outside the project location's municipality and in an environmentally friendly way.

Managing the product life cycle, from raw material sourcing through end-of-life collection and recycling, enables ReneSola to create a sustainable product life cycle that strives to provide the most environmental benefits.

2.2 Facility Dismantling and Site Restoration

The Project consists of numerous recyclable materials, including glass, semiconductor material, steel, and wiring. When the Project reaches the end of its operational life, the component parts can be dismantled and recycled. The Project components will be dismantled and removed using minimal impact conventional construction equipment and recycled or disposed of safely. All components shall be removed from the site using experienced local subcontractors.

2.3 Decommission / Reclamation Methodology:

Please note that no hazardous materials will be stored onsite. The Decommissioning Plan shall consist of the following:

- 1) A timeline of 120-150 days, including weather delay, comprised of the following phases:
 - a) Phase 1: Decommission (30 days).
 - i) Removal of solar modules, racking and driven posts or ballast blocks (10 days).
 - ii) Removal of the PowerStation electrical equipment (5 days).
 - iii) Removal of the below-grade conduits and associated cables (5 days).
 - iv) Removal of the concrete pad under the PowerStation or PowerStation ground screws, where applicable (5 days, concurrent with step (iii) above).
 - v) Removal of fences and any remaining equipment including but not limited to 3 power poles, security camera, weather station anemometer, rainfall catchment cup, irradiance meter(s), etc. (5 days, concurrent with step (iii) above).
 - vi) Removal and haul off of gravel contained in any roads added as part of the Project plus the underlying aggregate, unless the land adjacent to the Premises as defined in the site lease is used for livestock grazing or non-tilled farming such as alfalfa, hay, and/or other grasses in which case the gravel shall be removed to a level of 12" below the surface and the underlying aggregate beneath shall remain in place (10 days).
 - vii) No grading is necessary, since the Project construction plan does not require any grading other than possibly smoothing or knocking down any piles of debris, dirt, or aggregate that may already be on the Premises.
 - viii) Note: in the event that the landowner elects to keep the fence and/or the gravel road(s) installed as part of the Project in order to increase the agricultural output of the property (such as to contain sheep or other livestock for grazing and have use of the gravel road for servicing water or feed troughs for the livestock), and the landowners approve such request in writing either as a part of this permit application or at a later date, ReneSola and its assigns shall comply with that request and remove all other equipment pursuant to this Plan.
 - b) Phase 2: Reclamation (35 to 55 days).
 - i) Order the appropriate Crop seeds (30 days prior to the end of the Term).
 - ii) Prepare the soil as needed to plant the Crop (15 days).
 - iii) Prepare any necessary temporary irrigation, such as a temporary water tank, hose, or rental of a watering truck to nurture the Crop seeds after planting (15 days, concurrent with step (iv) above).
 - iv) Plant the Crop seeds (5 days).
 - v) Water and fertilize as needed, using agricultural grade probiotics and if needed additional non-toxic fertilizers (15-35 days).
 - c) Weather delay allowance, needed only for below grade removal as described in Phase 1, sections (iii), (iv), and (vi) (20 days).

2.4 Decommissioning Security

For the purposes of decommissioning, a financial security will be provided by ReneSola in the form of a bond, cash collateral, security deposit, escrow account, letter of credit or other form of acceptable financial surety in the amount of \$20,000/MW (which is 125% of the estimated cost of removal) with 2% annual inflation for the life of the facility. Once decommissioning activities have been completed, any remaining portion of the financial surety not used is expected to be returned to ReneSola.

SCHEDULE A

PARCEL I

ALL that tract or parcel of land, situate in the Town of Independence, County of Allegany, State of New York being of Great Lot No. 84, Township No. 1, Range No. 7 of Phelps and Gorham purchase, bounded and described as follows: BEGINNING at a point in the center of County Route No. 22 at its intersection with the center of New York State Route No. 248; THENCE North 00 degrees 29 minutes 00 seconds East, along the center of County Route No. 22, 246.37 feet to a point; THENCE South 88 degrees 49 minutes 00 seconds East passing through an iron set at or near the bounds of said road, 150.35 feet to an iron set; THENCE South 00 degrees 29 minutes 00 seconds West, passing through an iron set 30.7 feet from the center of New York State Route No. 248, 251.51 feet to the center thereof; THENCE westerly along the center thereof; THENCE westerly along the center of New York State Route 248 on a curve to the left having a radius of 1,137.74 feet and an arc distance of 150.61 feet to the point and place of BEGINNING.

PARCEL II A1

ALL that tract or parcel of land, situate in the Town of Independence, County of Allegany, State of New York, known and distinguished as the East 50 acres of the West 100 acres of Lot No. 85 in Township Number 1 in the Seventh Range of Townships in said County of Allegany.

PARCEL II A2

ALL that tract or parcel of land, situate in the Town of Independence, County of Allegany, State of New York, on Great Lot Number 85 in the Seventh Range of Townships, Township Number 1 and bounded as follows: BEGINNING at the southeast corner of said lot; THENCE North 86-3/4 degrees West 19 chains and 62 links; THENCE North 5-1/4 degrees East 50 chains and 62 links; THENCE South 86-3/4 degrees East 19 chains and 66 links; THENCE South 3-1/4 degrees West 50 chains and 65 links to the place of BEGINNING.

PARCEL II A3

ALL that tract or parcel of land, situate in the Town of Independence, County of Allegany, State of New York, on Great Lot Number 85 in the Seventh Range of Townships, Township Number 1 and bounded as follows: BEGINNING at the southwest corner thereof; THENCE North on the West line of said lot, 50 chains and 65 links to the northwest corner of said lot; THENCE East on the North line of said lot 20 chains and 60 links; THENCE South and parallel with the West line of said lot to the South line of said lot; THENCE West on the south line of said lot 20 chains and 85 links to the place of BEGINNING.

PARCEL II B

ALL that tract or parcel of land, situate in the Town of Independence, County of Allegany, State of New York, being a part of Lot No. 70 of the Putney Estate and bounded and described as follows: BEGINNING at the northeast corner of Lot No. 70 and running South along the East line of said Lot No. 70, 1,064 feet; THENCE North 86 degrees 15 minutes West, 799 feet; THENCE North 08 degrees 04 minutes East, 1,134 feet to the North line of Lot No. 70; THENCE East along the said North line 862 feet to the place of BEGINNING. Containing 20.45 acres of land, be the same more or less.

EXCEPTING AND RESERVING from the above Parcel II:

ALL that tract or parcel of land, situate in the Town of Independence, County of Allegany, State of New York, being part of Great Lot No. 84, Township No. 1, Range No. 7 of the Phelps and Gorham purchase, bounded and described as follows: BEGINNING at a point in the center of County Route 22 at its intersection with the center of New York State Route 248; THENCE North 00 degrees 29 minutes 00 seconds East, along the center of County Route 22, 246.47 feet to a point; THENCE South 88 degrees 49 minutes 00 seconds East, passing through an iron set at or near the bounds of said road, 150.35 feet to an iron set; THENCE South 00 degrees 29 minutes 00 seconds West, passing through an iron set 30.7 feet from the center of New York State Route No. 248, 251.51 feet to the center thereof; THENCE westerly along the center of New York State Route No. 248 on a curve to the left having a radius of 1,137.74 feet on an arc distance of 150.61 feet to the point and place of BEGINNING.

Being the same premises described in Deed dated February 28, 1994 in Liber 1069 of Deeds at page 228.

ALSO EXCEPTING AND RESERVING from the Above Parcel II:

ALL that tract or parcel of land, situate in the Town of Independence, County of Allegany, State of New York, being part of Great Lot No. 85, Township No. 1, Range No. 7, bounded and described as follows: BEGINNING at the point of intersection of the center of Casey Road with the center of County Route No. 22; THENCE southerly along the center of County Route No. 22 a distance of 200 feet to a point; THENCE westerly parallel to the center of Casey Road a distance of 1,346 feet to a point; THENCE northerly perpendicular to the center of Casey Road a distance of 200 feet to a point in the center of Casey Road; THENCE easterly along the center line of Casey Road a distance of 1,346 feet to the point and place of BEGINNING.

ALSO EXCEPTING AND RESERVING from the Above Parcel II:

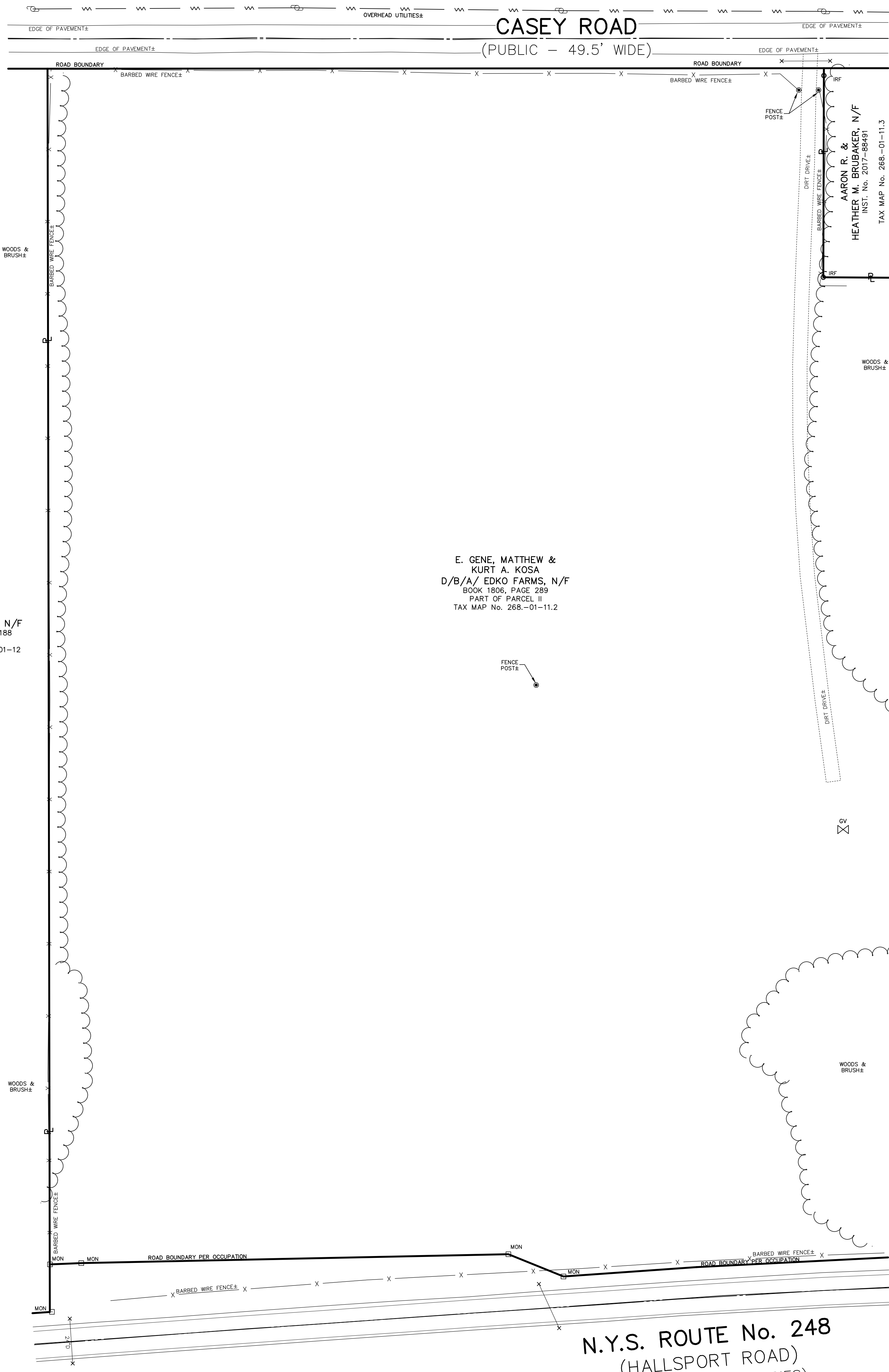
ALL that tract or parcel of land, situate in the Town of Independence, County of Allegany, State of New York, being part of Great Lot No. 84, Township No. 1, Range No. 7 of the Phelps and Gorham purchase, bounded and described as follows: BEGINNING at a point in the center of County Route No. 22 at its intersection with the North line of Great Lot No. 84; THENCE North 89 degrees 53 minutes 50 seconds East, along the North line of Great Lot No. 84, 185.0 feet to an iron set; THENCE South 00 degrees 00 minutes 40 seconds East, 311.0 feet to an iron set; THENCE South 89 degrees 53 minutes 50 seconds West, passing through an iron set at or near the bounds of the road, 185.0 feet to the center of County Route No. 22; THENCE North 00 degrees 00 minutes 40 seconds West, along the center of said road, 311.0 feet to the point and place of BEGINNING.

NOTES:

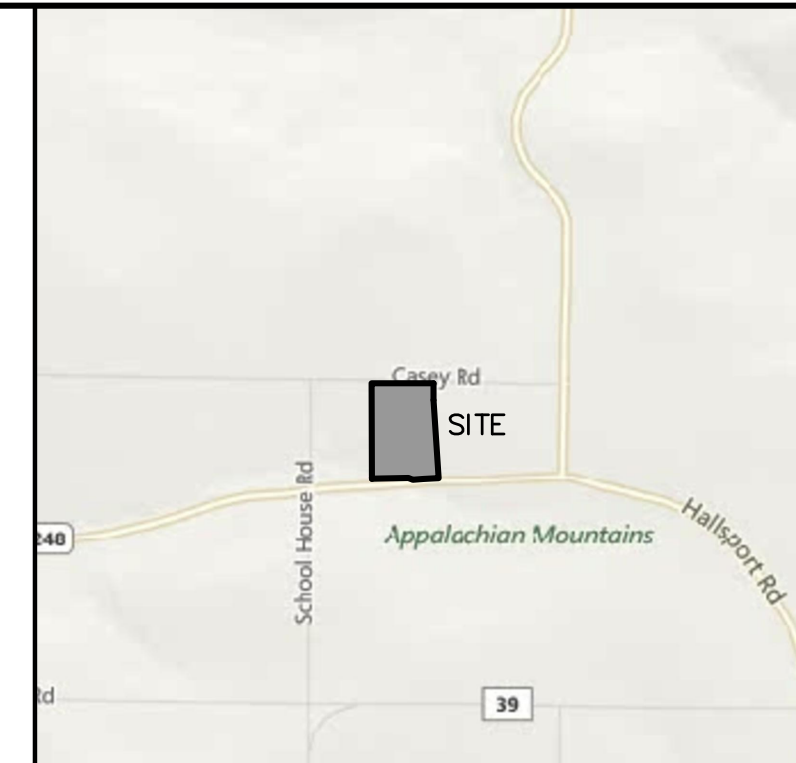
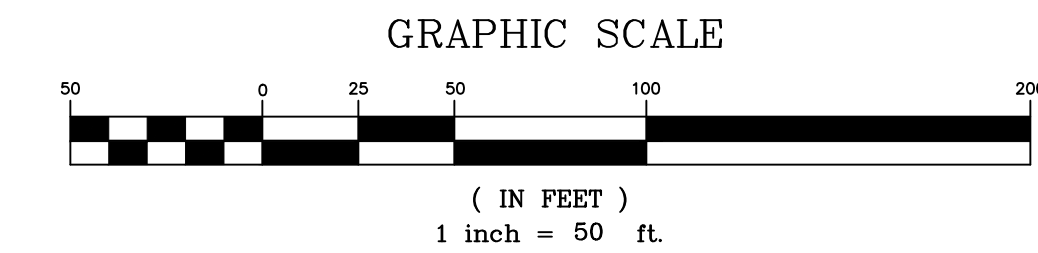
Elevations referred to NAVD 88.
Location of underground utilities taken by field measurement where practicable, otherwise taken from various other sources and are approximate only.
The premises shown hereon is within Zone "C" (Areas of minimal flooding no shading) according to Federal Emergency Management Agency National Flood Insurance Program Flood Insurance Rate Map Community Panel No. 361008 0005 B, effective date: July 9, 1982.
Part of Tax Map No. 265-01-11.2

LEGEND:

- indicates original grade
- indicates light stand
- indicates utility pole, anchor & overhead lines
- indicates iron pipe and/or monument found
- indicates bollard
- indicates sign
- indicates storm culvert
- indicates gas main, gas valve & gas line marker
- indicates water main, water valve & hydrant
- indicates storm sewer, catch basin & manhole
- indicates sanitary sewer, sewer vent & manhole
- indicates underground telephone line, manhole & box
- indicates underground electric line & manhole
- indicates underground television cable & box
- indicates boundary line
- indicates adjacent parcel line
- indicates old/original parcel line
- indicates easement line
- indicates centerline road



E. GENE, MATTHEW &
KURT A. KOSA
D/B/A/ EDKO FARMS, N/F
BOOK 1806, PAGE 289
PART OF PARCEL II
TAX MAP No. 268-01-11.2



TITLE REPORT
BY: FIRST STEWART TITLE INSURANCE COMPANY
TITLE No.: TA20(00) 153A
EFFECTIVE DATE: MARCH 31, 2020

SCHEDULE B

5. Right of Way dated February 21, 1973 to Niagara Mohawk, recorded March 9, 1973 in Liber 610 of Deeds at page 55.
-Unable to plot.
6. Appropriation dated September 25, 1975 to New York State, recorded September 29, 1975 in Liber 674 of Deeds at page 102.
-Unable to plot.
7. Bill of Sale and Agreement dated December 13, 1976 between Glenn E. Brubaker and Josephine Brubaker and National Fuel Gas Supply Corporation, recorded March 7, 1977 in Liber 705 of Deeds at page 269.
-Not a survey related item.
8. Right of Way dated August 8, 1977 to National Fuel Gas Distribution Corporation, recorded February 23, 1978 in Liber 728 of Deeds at page 127.
-Does not affect survey area.
9. Right of Way dated August 13, 1977 to National Fuel Gas Distribution Corporation, recorded September 10, 1979 in Liber 763 of Deeds at page 257.
-Does not affect survey area.
10. Right of Way dated August 13, 1977 to National Fuel Gas Distribution Corporation, recorded September 10, 1979 in Liber 763 of Deeds at page 258.
-Does not affect survey area.
11. Terms and conditions of Lease made by Laura Miller, Landlord and Empire Gas and Fuel Company, Tenant, recorded January 17, 1962 in Liber 545 page 128.
(a) Modification dated December 17, 1979 between Glenn E. Brubaker and Josephine Brubaker and National Fuel Gas Supply Corporation, recorded June 23, 1980 in Liber 778 of Deeds at page 321. Also modifies Lease, Liber 545 of Deeds at page 128.
(b) Modification dated December 17, 1979 between Glenn E. Brubaker and Josephine Brubaker and National Fuel Gas Supply Corporation, recorded June 23, 1980 in Liber 778 of Deeds at page 323. Also modifies Lease, Liber 545 of Deeds at page 128.
-Not a survey related item.
12. Commitment of land to continued agricultural production dated March 11, 1991, between Glenn E. Brubaker and New York State, recorded March 11, 1991 in Liber 1013 page 171.
-Not a survey related item.
13. Easement and mineral rights reserved in Deed made by Harry L. Teater, recorded May 12, 1950 in Liber 436 page 489.
-Not a survey related item.
14. Oil and Gas Deed to Parker L. Melvin, recorded March 27, 1933 in Liber 303 page 311.
-Unable to plot.
15. Oil and Gas Deed to W. H. Haupt Company, Inc., recorded June 13, 1938 in Liber 331 page 337.
-Unable to plot.
16. Reservations and Easements excepted in Deed to Barry L. Brubaker and Michelle O. Brubaker, recorded May 18, 1998 in Liber 1146 page 70 and repeated in Liber 1195 page 185, Liber 1207 page 91 and Book 1806 page 289.
-Frontier Abstract.
17. Easement granted to Armstrong Telephone Company recorded December 16, 1998 in Liber 1158 page 53.
-Does not affect survey area.
18. Encroachment Affidavit made by E. Gene Kosa recorded February 15, 2017 in Instrument No. 2017-85490.
-Not a survey related item.
19. Terms and conditions of Lease made by E. Gene Kosa, Matthew Kosa and Kurt Kosa d/b/a Edko Farms, Landlord, to National Fuel Gas Supply Corporation, Tenant, dated January 3, 2018, a Memorandum of which was recorded January 31, 2018 in Instrument No. 2018-94719.
-Not a survey related item.

To:

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 2, 3, 6(b), 8, 11, 13, 16, 17, 18 & 19 of Table A thereof. The field work was completed on May 7, 2020.

Date of Plat or Map: October 21, 2020.

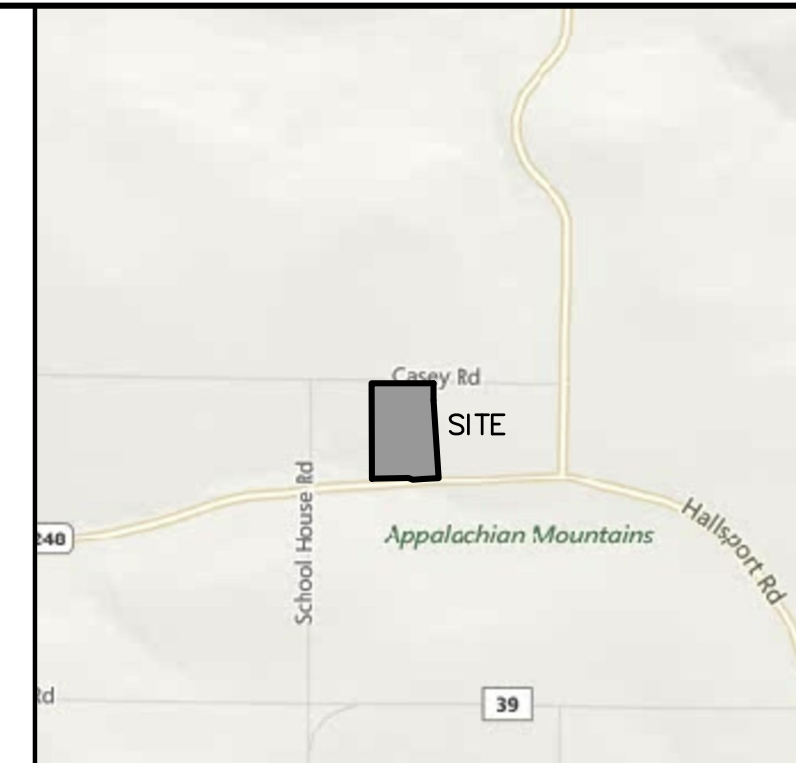
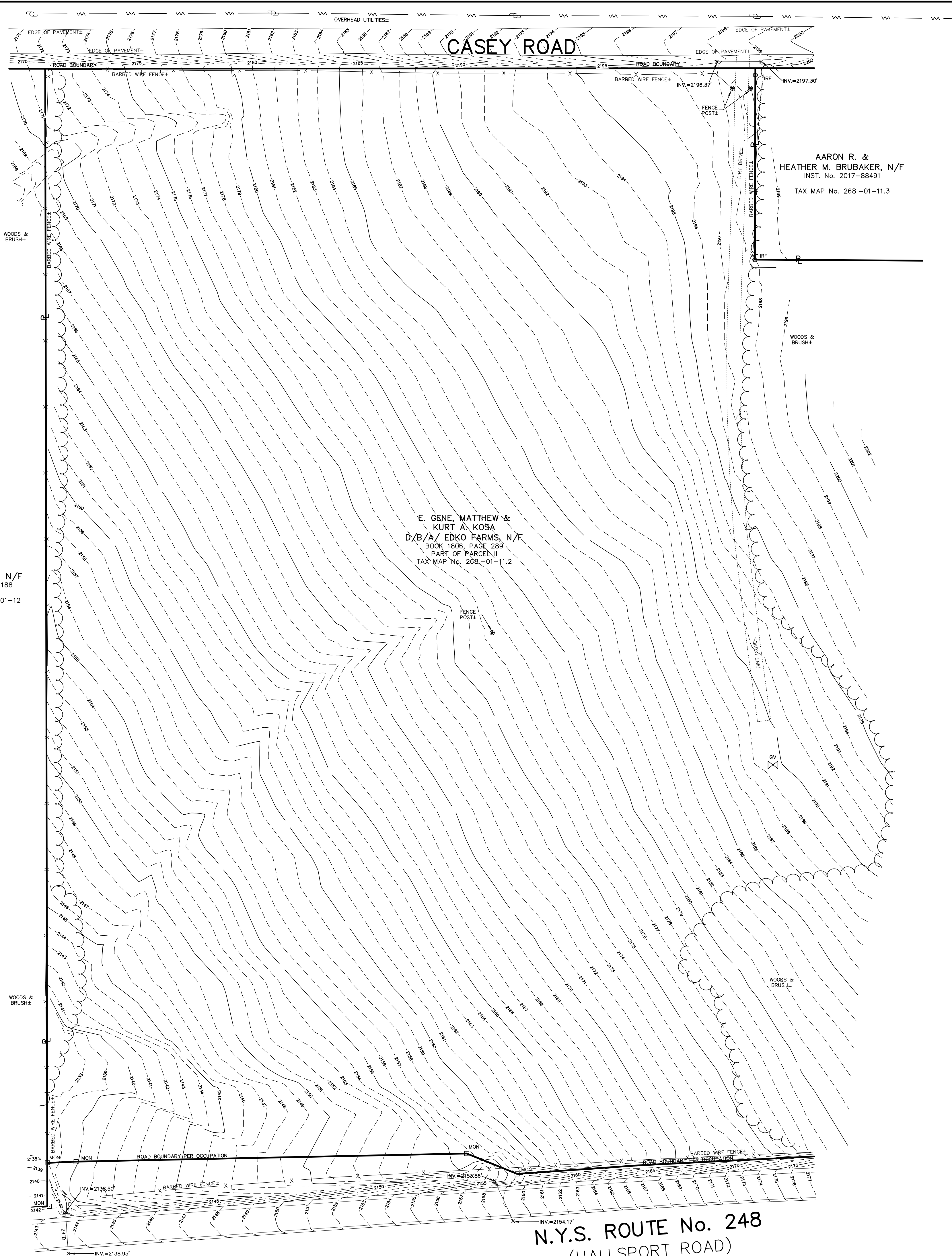
Signed: _____

Timothy J. Coyer, L.S.
N.Y.S. Licensed Land Surveyor Registration No. 050856

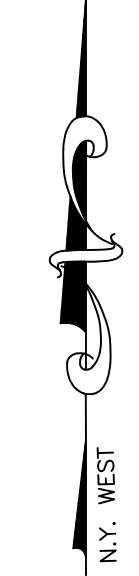
Subject to any statement of facts on accurate and up to date abstract of title will show.
Unauthorized alteration or addition to a survey map bearing a licensed land surveyor's seal is a violation of section 7209, sub-division 2, of the New York State Education Law.

REVISIONS	ALTA/NSPS LAND TITLE SURVEY 1500 STATE ROUTE No. 248 KOSA PROPERTY TOWNSHIP No. 1, RANGE No. 7 PHELPS AND GORHAM PURCHASE PART OF GREAT LOT No. 85 TOWN OF INDEPENDENCE ALLEGANY COUNTY, NEW YORK	
	IANUZI & ROMANS LAND SURVEYING, P.C. 5251 WITZ DRIVE NORTH SYRACUSE, NY 13212 PHONE: (315) 457-7200 FAX: (315) 457-9251 EMAIL: mail@romanspc.com	

N.Y.S. ROUTE No. 248
(HALLSPART ROAD)
MORTUARIUMS



LOCATION PLAN
Scale: 1" = 2000'



WILLIAM &
CHERYL BARNEY, N/F
BOOK 783, PAGE 188
TAX MAP No. 268-01-12

E. GENE, MATTHEW &
KURT A. KOSA
D/B/A/ EDKO FARMS, N/F
BOOK 1806, PAGE 289
PARTY OF PARCEL II
TAX MAP No. 268-01-11.2

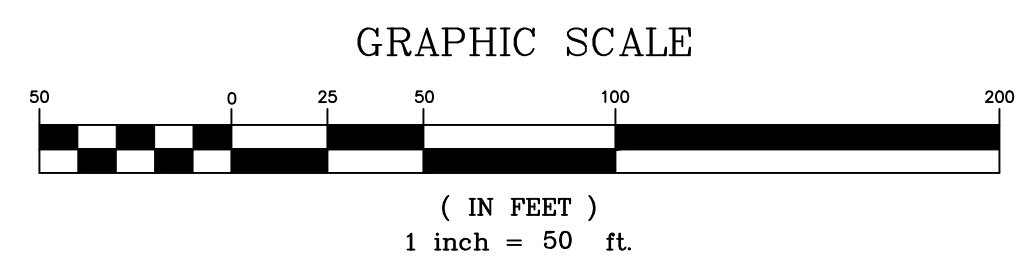
AARON R. &
HEATHER M. BRUBAKER, N/F
INST. No. 2017-88491
TAX MAP No. 268-01-11.3

NOTES:

Elevations referred to NAVD 88.
Location of underground utilities taken by field measurement where practicable, otherwise taken from various other sources and are approximate only.
The premises shown hereon is within Zone "C" (Areas of minimal flooding no shading) according to Federal Emergency Management Agency National Flood Insurance Program Flood Insurance Rate Map Community Panel No. 361008 0005 B, effective date: July 9, 1982. Part of Tax Map No. 265-01-11.2

LEGEND:

- indicates original grade
- LS indicates light stand
- indicates utility pole, anchor & overhead lines
- indicates iron pipe and/or monument found
- indicates monument found
- indicates bollard
- indicates sign
- indicates storm culvert
- indicates gas main, gas valve & gas line marker
- indicates water main, water valve & hydrant
- indicates storm sewer, catch basin & manhole
- indicates sanitary sewer, sewer vent & manhole
- indicates underground telephone line, manhole & box
- indicates underground electric line & manhole
- indicates underground television cable & box
- indicates boundary line
- indicates adjacent parcel line
- indicates old/original parcel line
- indicates easement line
- indicates centerline road

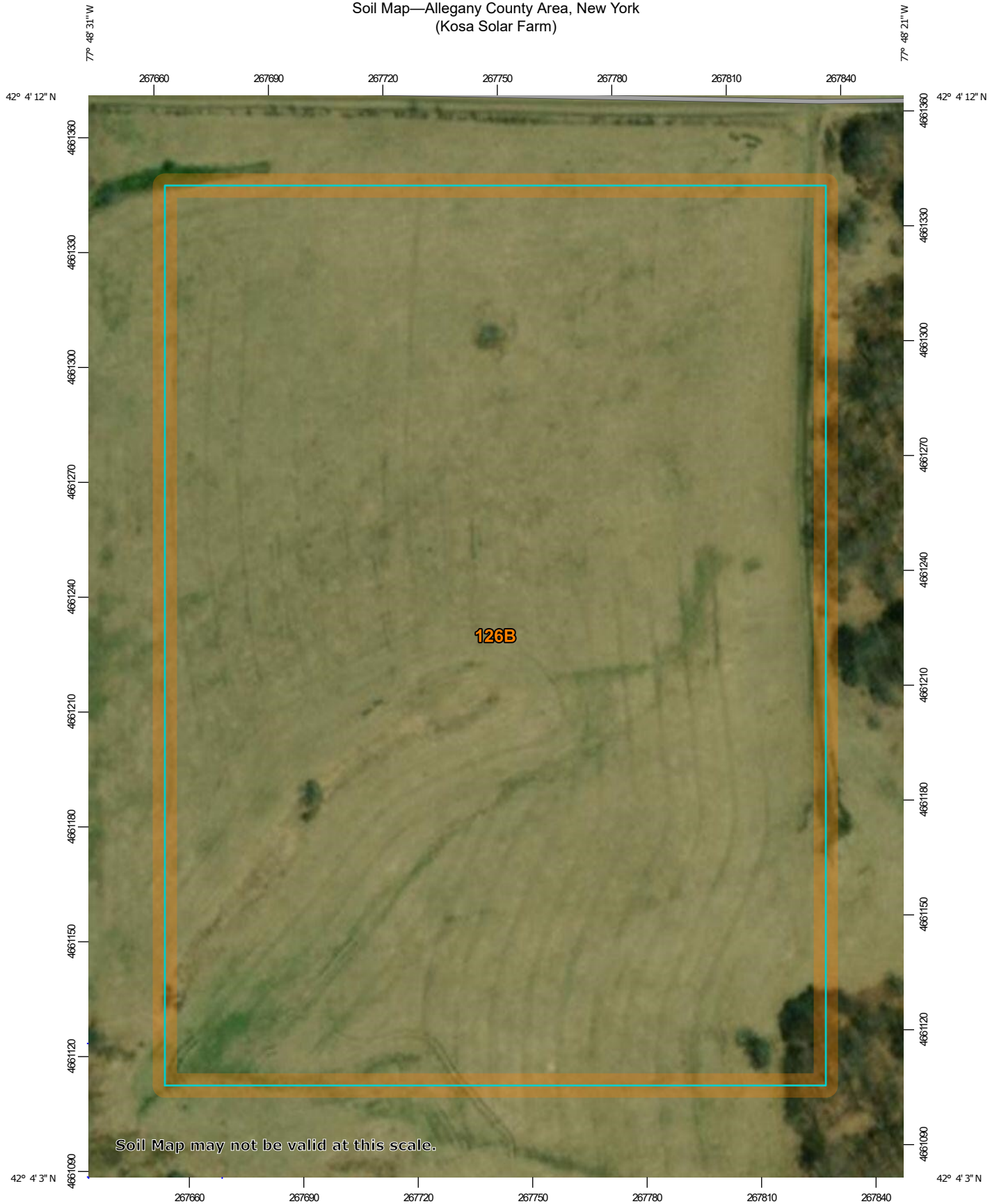


Subject to any statement of facts on accurate and up to date abstract of title will show.
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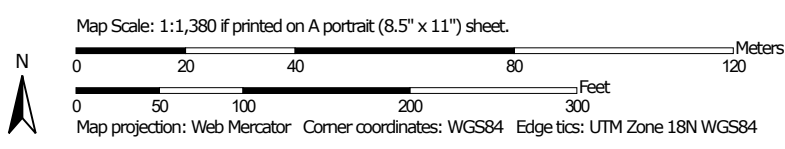
REVISIONS	PARTIAL TOPOGRAPHIC SURVEY			
	KOSA PROPERTY TOWNSHIP No. 1, RANGE No. 7 PHELPS AND GORHAM PURCHASE PART OF GREAT LOT No. 85 TOWN OF INDEPENDENCE ALLEGANY COUNTY, NEW YORK			
	JANUZI & ROMANS LAND SURVEYING, P.C. 5251 WITZ DRIVE NORTH SYRACUSE, NY 13212 PHONE: (315) 457-7200 FAX: (315) 457-9251 EMAIL: mail@romanspc.com			DATE: MAY 7, 2020 SCALE: 1" = 50' FILE No.: 301.097
				SHEET No. F.B. No. 1626

N.Y.S. ROUTE No. 248
(HALLSPORT ROAD)

Soil Map—Allegany County Area, New York
(Kosa Solar Farm)




Soil Map may not be valid at this scale.



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: Allegany County Area, New York
Survey Area Data: Version 25, Sep 16, 2019

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

Date(s) aerial images were photographed: Apr 27, 2011—Apr 22, 2017

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
126B	Ontusia channery silt loam, 3 to 8 percent slopes	10.1	100.0%
Totals for Area of Interest		10.1	100.0%

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

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

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

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

A. Project and Applicant/Sponsor Information.

Name of Action or Project:		
Project Location (describe, and attach a general location map):		
Brief Description of Proposed Action (include purpose or need):		
Name of Applicant/Sponsor:		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:
Project Contact (if not same as sponsor; give name and title/role):		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:

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 <input type="checkbox"/> Yes <input type="checkbox"/> No		
b. City, Town or Village Planning Board or Commission <input type="checkbox"/> Yes <input type="checkbox"/> No		
c. City, Town or Village Zoning Board of Appeals <input type="checkbox"/> Yes <input type="checkbox"/> No		
d. Other local agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
e. County agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
f. Regional agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
g. State agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
h. Federal agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
<p>i. Coastal Resources.</p> <p><i>i.</i> Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><i>ii.</i> Is the project site located in a community with an approved Local Waterfront Revitalization Program? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><i>iii.</i> Is the project site within a Coastal Erosion Hazard Area? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>		

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):

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?

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? _____

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

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

d. What parks serve the project site?

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)?

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

	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
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 _____

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

iii. Approximate extent of building space to be heated or cooled: _____ 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? Yes No
 (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)
 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.

iv. 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: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? Yes No

If Yes:

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

iii. Will line extension within an existing district be necessary to supply the project? Yes No

If Yes:

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

iv. Is a new water supply district or service area proposed to be formed to serve the project site? Yes No

If Yes:

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

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

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

d. Will the proposed action generate liquid wastes? Yes No

If Yes:

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

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

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

If Yes:

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

• 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: _____

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: _____

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 _____ acres (impervious surface)
 _____ Square feet or _____ acres (parcel size)
 ii. Describe types of new point sources. _____

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)?

 • 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)

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

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

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:
 • _____ Tons/year (short tons) of Carbon Dioxide (CO₂)
 • _____ Tons/year (short tons) of Nitrous Oxide (N₂O)
 • _____ Tons/year (short tons) of Perfluorocarbons (PFCs)
 • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆)
 • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflouorocarbons (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): _____
 ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? Yes No
 If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? Yes No
 If Yes:
 i. When is the peak traffic expected (Check all that apply): Morning Evening Weekend
 Randomly between hours of _____ to _____.
 ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____
 iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____
 iv. Does the proposed action include any shared use parking? Yes No
 v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____
 vi. Are public/private transportation service(s) or facilities available within 1/2 mile of the proposed site? Yes No
 vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? Yes No
 viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? Yes No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? Yes No
 If Yes:
 i. Estimate annual electricity demand during operation of the proposed action: _____
 ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____
 iii. Will the proposed action require a new, or an upgrade, to an existing substation? Yes No

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

<p>i. During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____ 	<p>ii. During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____
--	---

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:

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: _____

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: _____ tons per _____ (unit of time)
 • Operation : _____ tons per _____ (unit of time)
 ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:
 • Construction: _____

 • Operation: _____

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

 • Operation: _____

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

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:

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? _____ 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: _____ %
 _____ %
 _____ %

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

e. Drainage status of project site soils: Well Drained: _____ % of site
 Moderately Well Drained: _____ % of site
 Poorly Drained _____ % of site

f. Approximate proportion of proposed action site with slopes: 0-10%: _____ % 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 _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ 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: _____

m. Identify the predominant wildlife species that occupy or use the project site: _____ _____ _____	
n. Does the project site contain a designated significant natural community? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Describe the habitat/community (composition, function, and basis for designation): _____ _____ <i>ii.</i> Source(s) of description or evaluation: _____ <i>iii.</i> Extent of community/habitat: <ul style="list-style-type: none"> • 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? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</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? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Species and listing: _____ _____	
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? <input type="checkbox"/> Yes <input type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide county plus district name/number: _____	
b. Are agricultural lands consisting of highly productive soils present? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>i.</i> If Yes: acreage(s) on project site? _____ <i>ii.</i> 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? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Nature of the natural landmark: <input type="checkbox"/> Biological Community <input type="checkbox"/> Geological Feature <i>ii.</i> 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? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> CEA name: _____ <i>ii.</i> Basis for designation: _____ <i>iii.</i> Designating agency and date: _____	

<p>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? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p style="margin-left: 20px;">i. Nature of historic/archaeological resource: <input type="checkbox"/> Archaeological Site <input type="checkbox"/> Historic Building or District</p> <p style="margin-left: 20px;">ii. Name: _____</p> <p style="margin-left: 20px;">iii. Brief description of attributes on which listing is based: _____</p>
<p>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? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>g. Have additional archaeological or historic site(s) or resources been identified on the project site? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p style="margin-left: 20px;">i. Describe possible resource(s): _____</p> <p style="margin-left: 20px;">ii. Basis for identification: _____</p>
<p>h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p style="margin-left: 20px;">i. Identify resource: _____</p> <p style="margin-left: 20px;">ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____</p> <p style="margin-left: 20px;">iii. Distance between project and resource: _____ miles.</p>
<p>i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p style="margin-left: 20px;">i. Identify the name of the river and its designation: _____</p> <p style="margin-left: 20px;">ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>

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 _____ Date _____

Signature  _____ Title _____

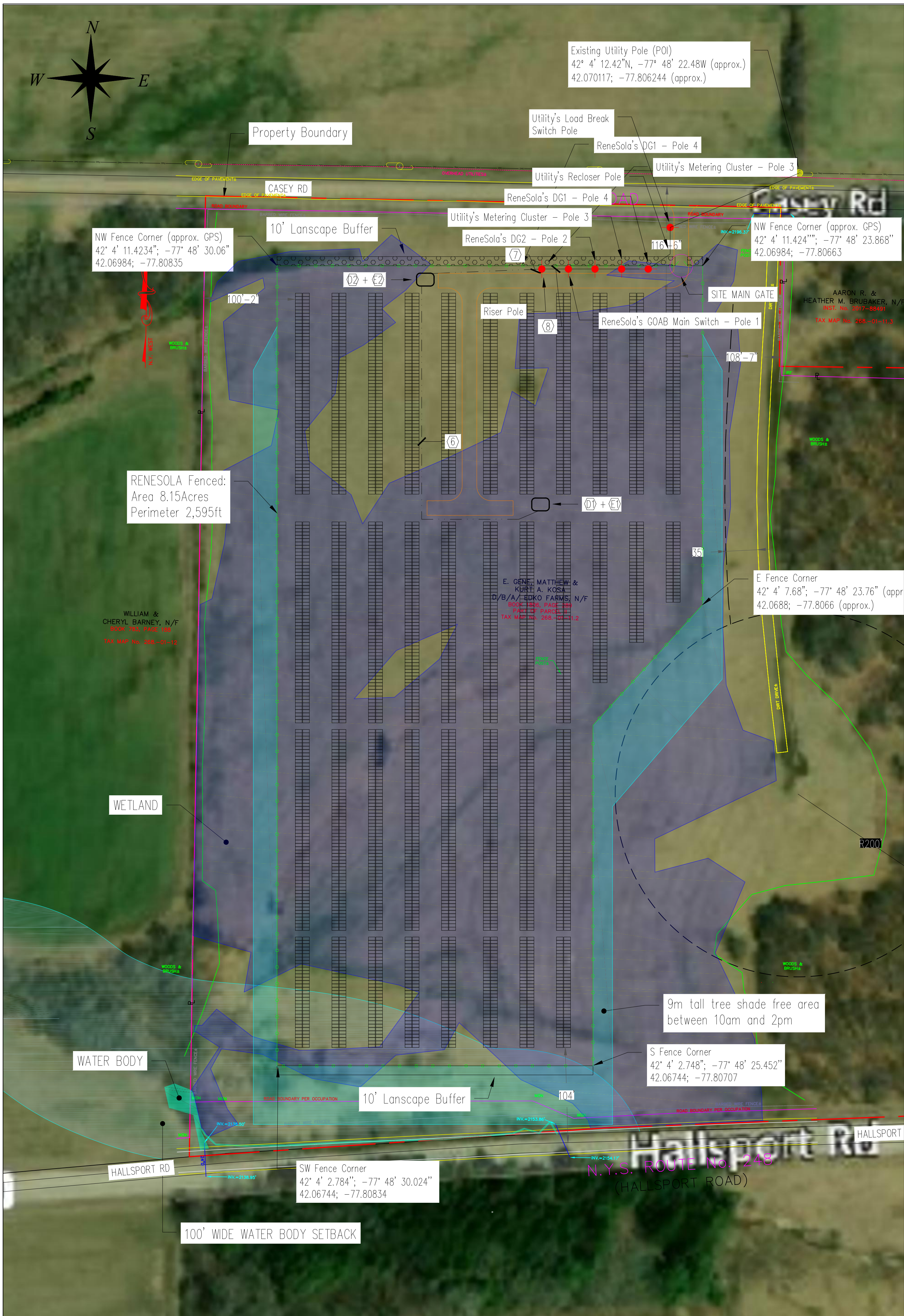


Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the 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.

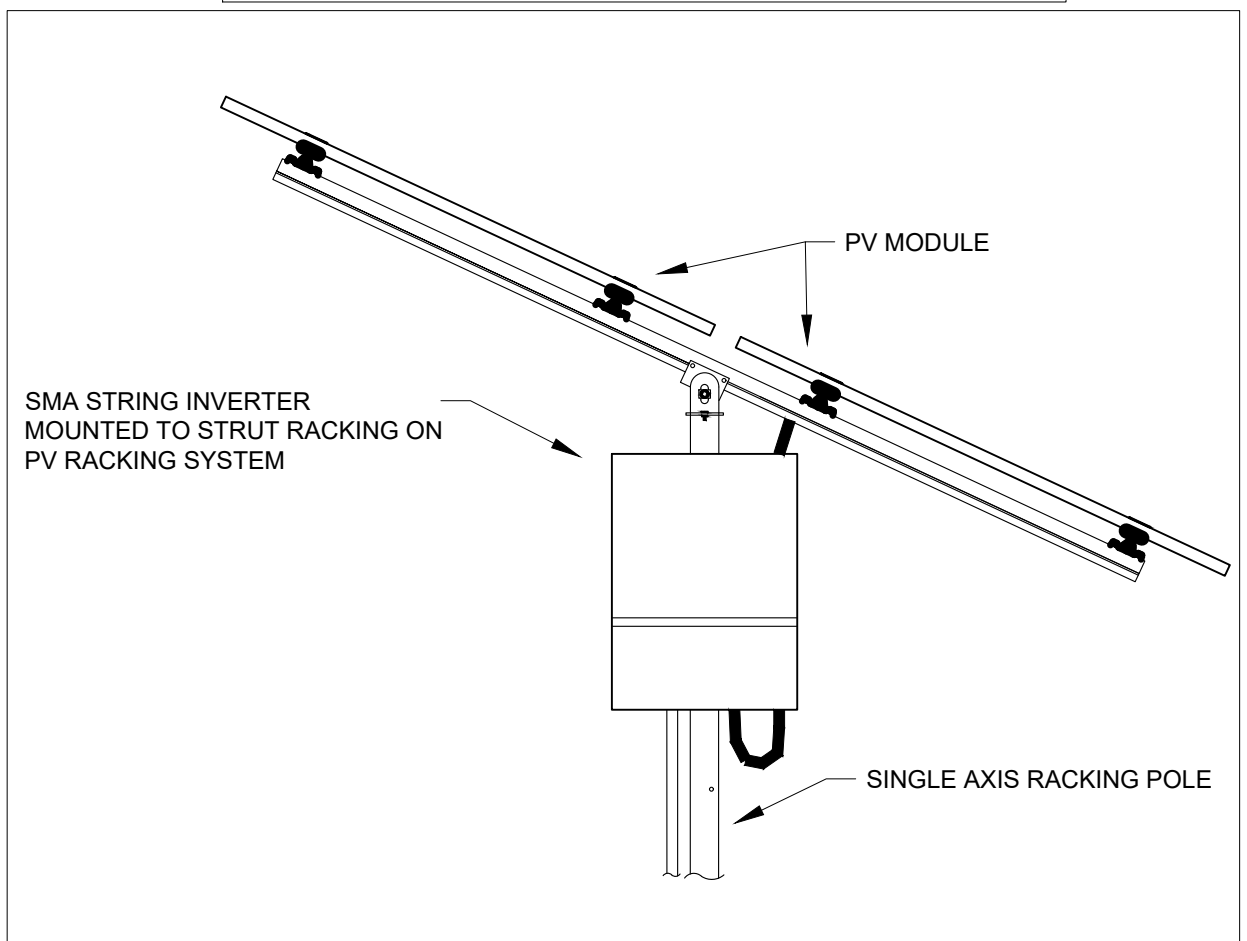
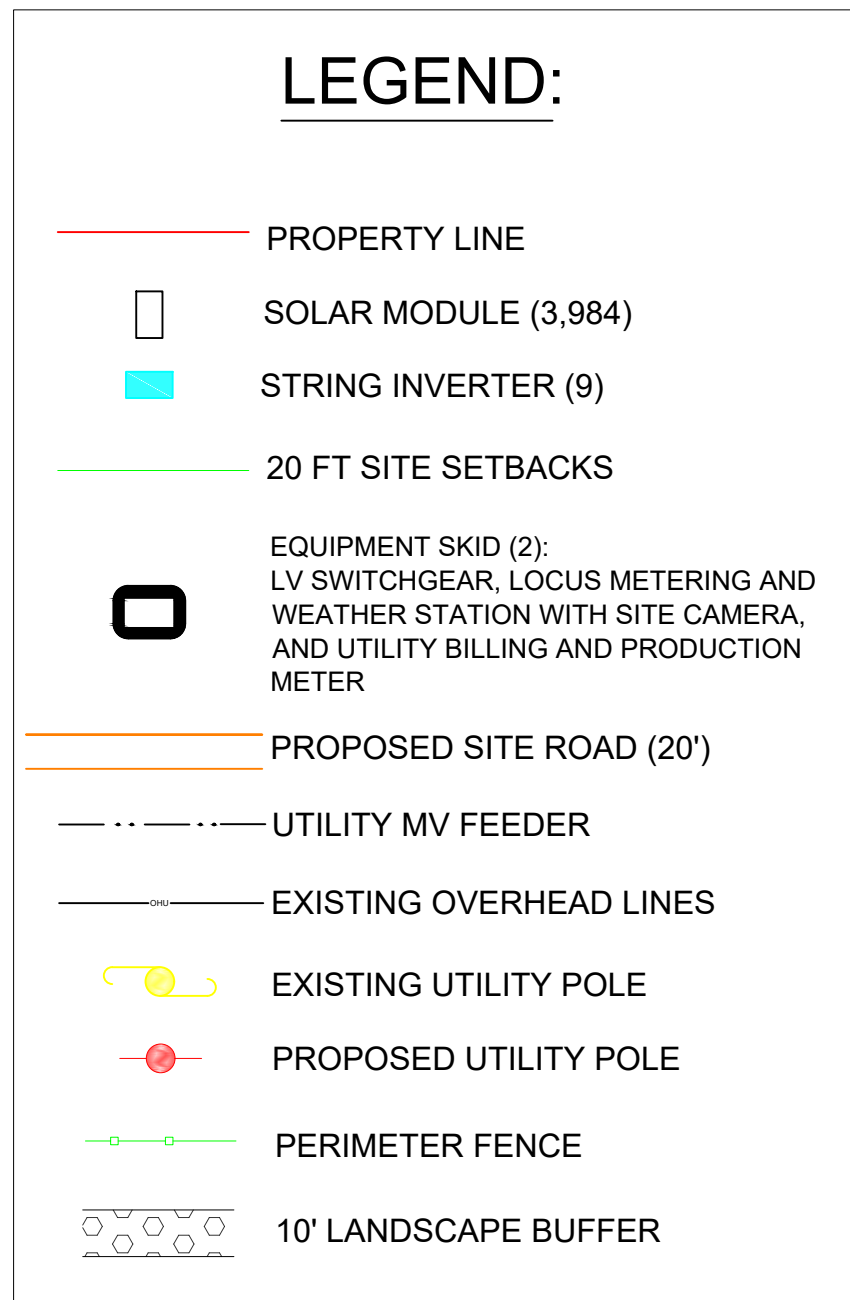


B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are 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]	Yes
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.iv [Surface Water Features - Stream Name]	821-463
E.2.h.iv [Surface Water Features - Stream Classification]	C
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters
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
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]	ALLE004
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]	No
E.3.i. [Designated River Corridor]	No



SITE PLAN



N-S RAKING SIDE VIEW

NOTES:

PV SYSTEM:
AZIMUTH: 90°/270°
TILT ANGLE: ±50°
PITCH (ROW-TO-ROW SPACING): 40°
PV MODULES: Risen RSM150-8-500BMDG MONO BIFACIAL
MODULES PER STRING: 24

RACK CONFIGURATION:
NEXTTRACKER HZ Horizon SINGLE AXIS TRACKER
EACH TRACKER CONSISTS OF [1x24] MODULES IN E-W PORTRAIT ORIENTATION

INVERTER INFORMATION:
(9) ABB PVS-166-TL US (166.5kW)
STRINGS PER INVERTER: 24
DC/AC RATIO: 1.324

SITE ACCESS:
U-BOLT LOCK WILL BE INSTALLED ON THE SITE GATE FOR UTILITY'S 24/7 ACCESS TO THE GENERATOR AC DISCONNECT SWITCH.

RENESOLA/UTILITY POLES:
EPC TO PROVIDE SCHEDULE AFTER FIELD CONDITIONS ASSESSMENT AND POLES TENSION CALCULATIONS.

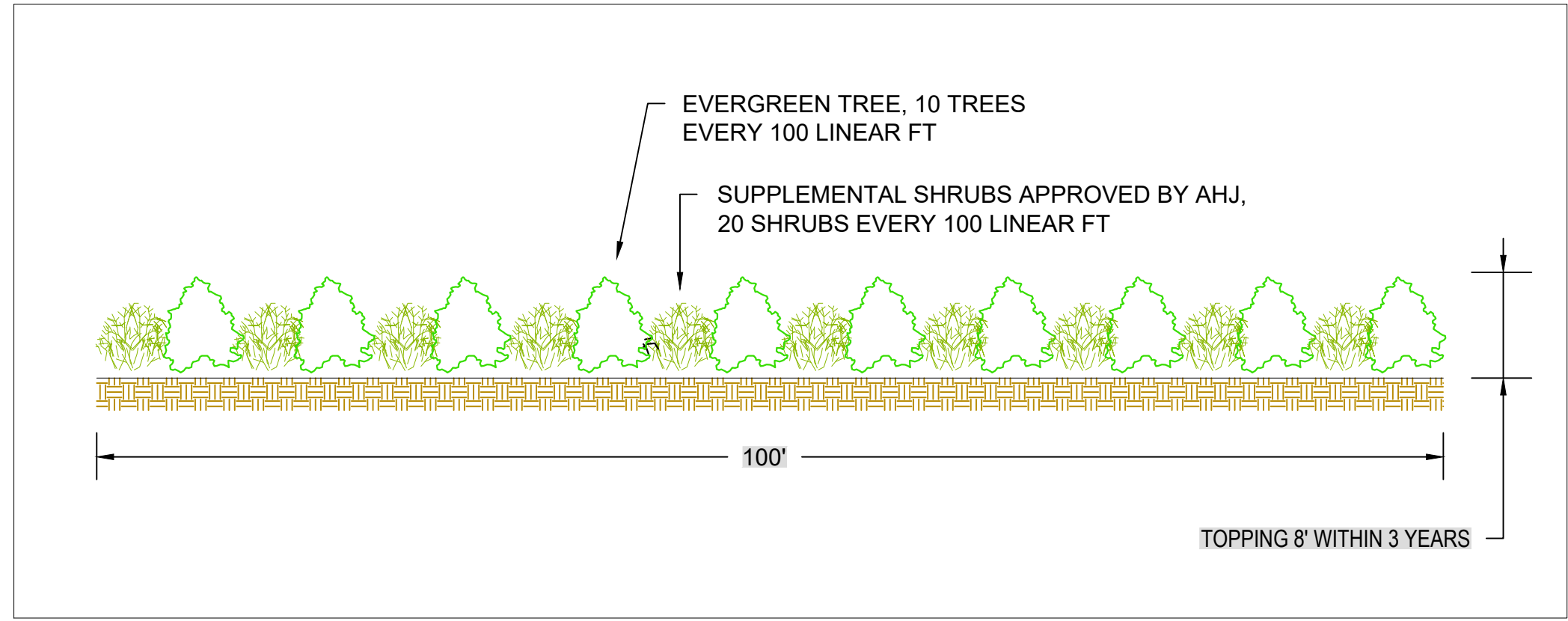
GROUNDING:
EPC TO ASSESS GROUNDING NEEDS IN ORDER TO ACHIEVE NEC ARTICLE 250 MINIMUM REQUIREMENTS.

SOLAR/PARCEL AREA RATIO CALCULATION:
PARCEL AREA: 261.6 Acres
SOLAR/PARCEL AREA RATIO = TOTAL SOLAR AREA / PARCEL'S AREA
= 8.39Acres / 261.6Acres
= 0.032 (3.2%)

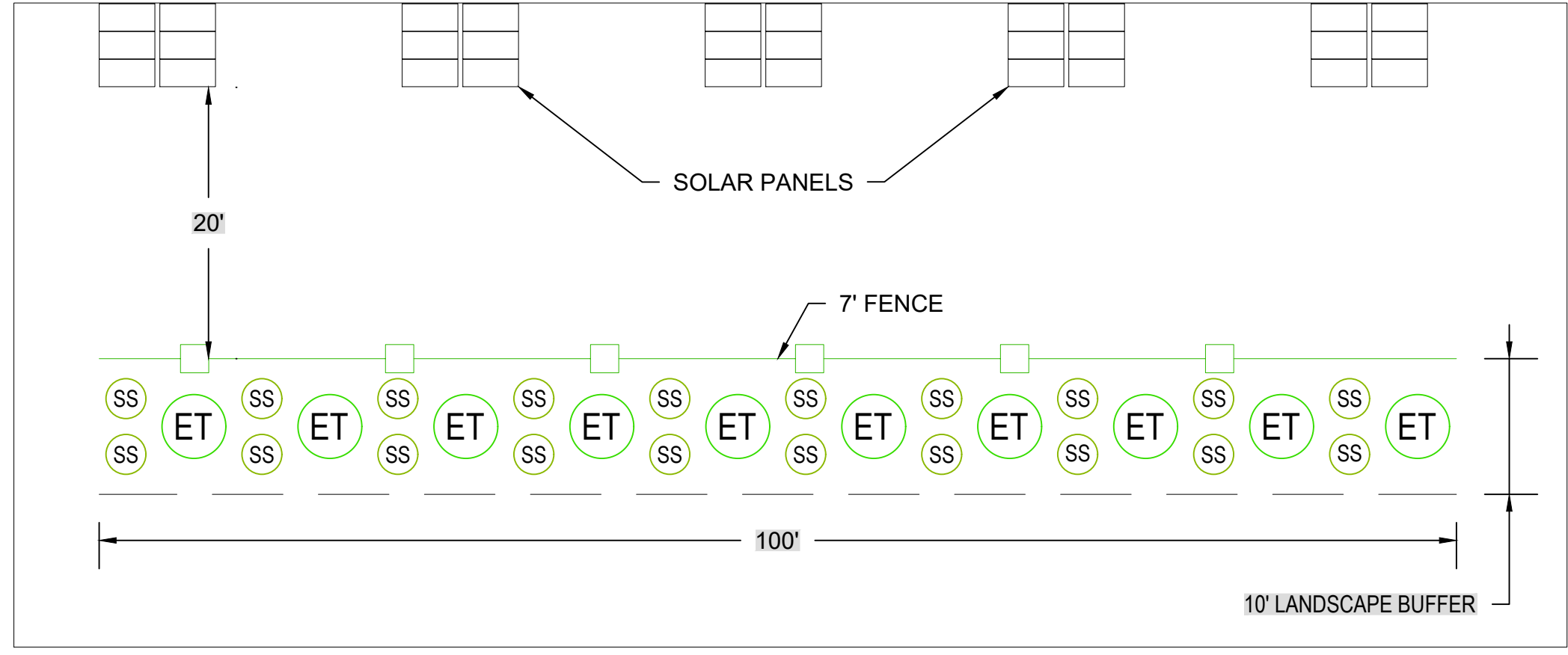
AREAS:
TOTAL IMPERVIOUS AREA: 0.075 Acres
TOTAL MODULE FOOTPRINT: 2.43 Acres
TOTAL FENCED IN AREA: 8.15 Acres
TOTAL SHADE FREE AREA: 1.52 Acres
TOTAL LANDSCAPE BUFFER AREA: 0.19 Acres
AREA TAKEN FOR SITE ACCESS ROAD AND CONNECTION LINE: 0.05 Acres
TOTAL AREA TAKEN FOR SOLAR SITE: 8.36 Acres

TYPICAL LANDSCAPE PLAN:

- 10 SMALL EVERGREEN TREES, 20 SUPPLEMENTAL SHRUBS APPROVED BY AHJ PER 100 LINEAR FEET.
- SMALL EVERGREEN TREES WITH 6' AT THE TIME OF INSTALL, TOPPING AT 8' HIGH WITHIN 3 YEARS.
- OTHER EXISTING VEGETATION TO REMAIN.
- LANDSCAPE ONLY WHERE NEEDED.



PLANTING LAYOUT: SIDE VIEW



PLANTING LAYOUT: TOP DOWN VIEW



RENESOLA POWER HOLDINGS

850 Canal St, 3rd FL
Stamford, CT 06902

Applicant: Gregory Thomas
Engineer: Pedro Sanches

INDEPENDENCE

1550 State Route 248
Independence, NY 14897

42°04'07.7"N 77°48'26.7"W
42.068818, -77.807418

Owner: Gene Kosa
Tax Parcel ID: 268.1-11.2

OVERALL SYSTEM SIZE
1.748MWdc / 1.5MWac

REV	DESCRIPTION	BY	DATE
4			
3	C&S UPDATES	PS	20/05/28
2	ENGINEERING UPDATES	PS	20/04/03
1	LANDSCAPE BUFFER	PS	20/02/07
0	INTERCONNECTION SUBMITTAL	PS	19/12/27

SHEET TITLE
GENERAL SITE PLAN

PAPER SIZE: PLOT 24" x 36" FOR FULL SCALE
SCALE: 1:3000
DATE: 2020/04/03
DRAWING NO.

C-001

4			
3	C&S UPDATES	PS	20/05/28
2	ENGINEERING UPDATES	PS	20/04/03
1	LANDSCAPE BUFFER	PS	20/02/07
0	INTERCONNECTION SUBMITTAL	PS	19/12/27
REV	DESCRIPTION	BY	DATE

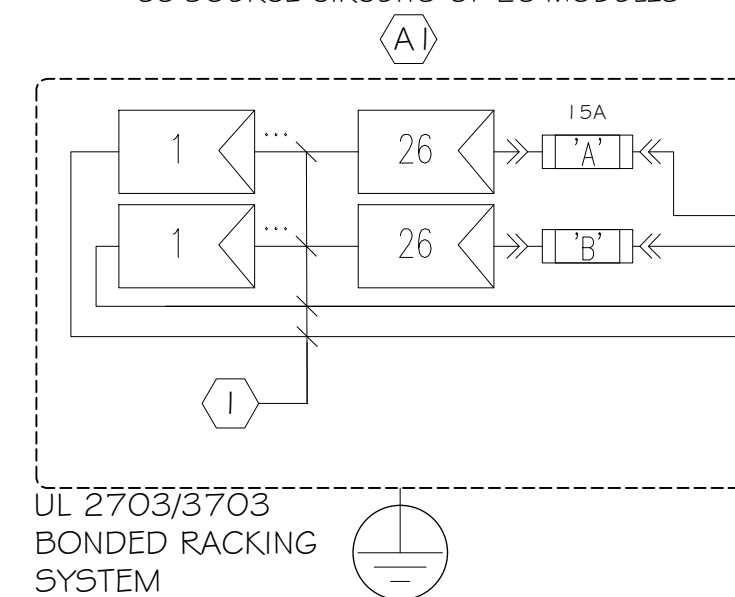
SHEET TITLE	
THREE LINE DIAGRAM	

PAPER SIZE	PLOT 24" x 36" FOR FULL SCALE
SCALE	NTS
DATE	2020/04/03
DRAWING NO.	

PV ARRAY LOCATION

SWITCHBOARD / TRANSFORMER PAD

PV SUBARRAY:
66 SOURCE CIRCUITS OF 26 MODULES



STRUCTURAL PIERS SERVE AS
SUPPLEMENTAL GROUNDING
ELECTRODES

166.5 kW INVERTER
(INVERTERS #1-3)

AC COMBINING SWITCHBOARD (N3R)
800V 500A 3P4W SECTIONS
(3) 160A 3P BREAKERS (INVERTERS #1-3)
(1) 20A 3P BREAKER (COMMS / AUX PANEL)
(35kAIC INTERRUPT RATING)

0.5MVA CUSTOMER STEP-UP TRANSFORMER
0.8kV PRIMARY WYE / 4.8kV SECONDARY GWYE
X/R Ratio=6.82, Z=5.75%, BIL=60kV

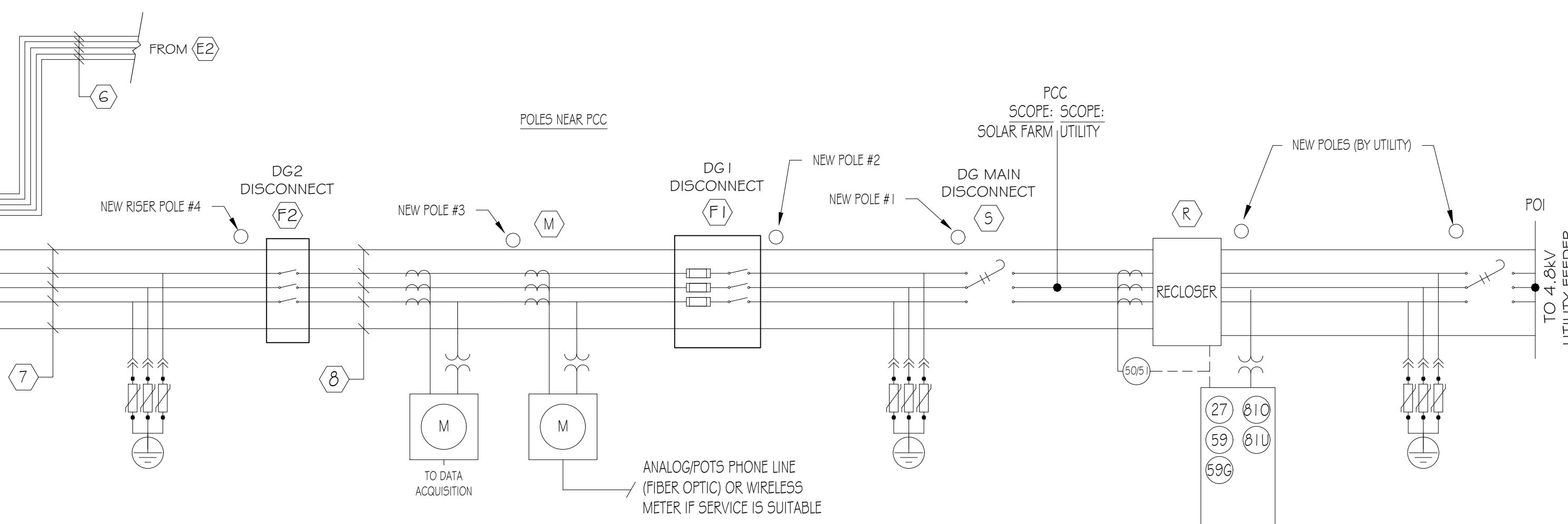
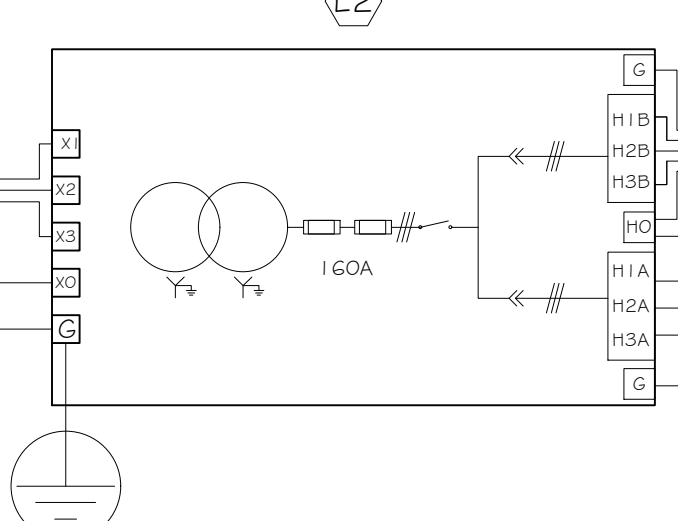
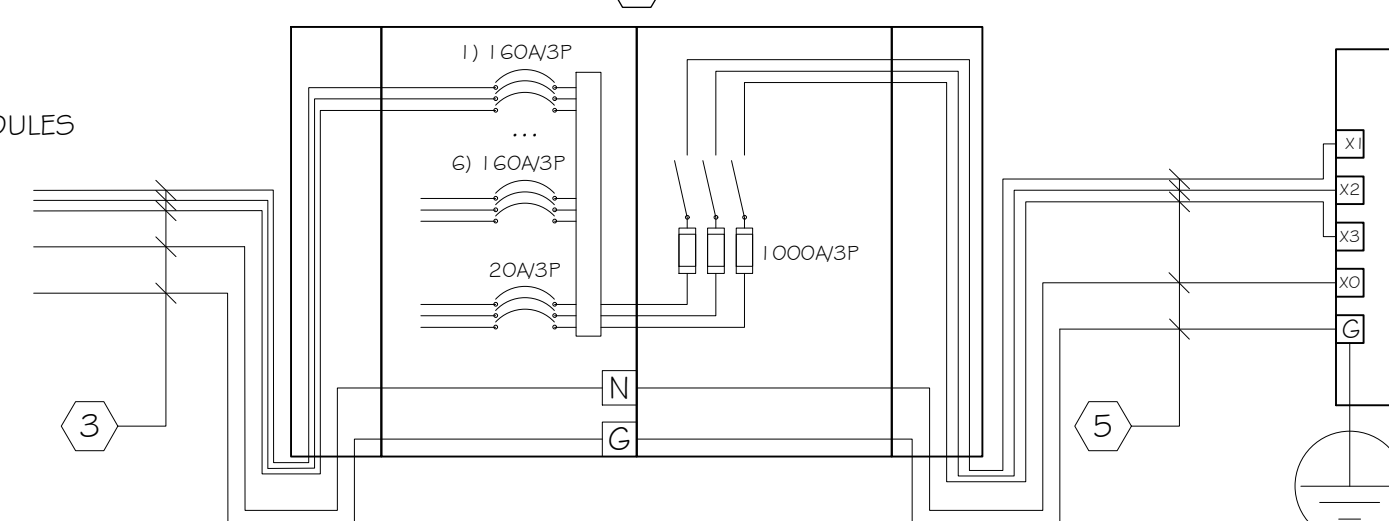
SWITCHBOARD / TRANSFORMER PAD

AC COMBINING SWITCHBOARD (N3R)
800V 1000A 3P4W SECTIONS
(6) 160A 3P BREAKERS (INVERTERS #4-9)
(1) 20A 3P BREAKER (COMMS / AUX PANEL)
(35kAIC INTERRUPT RATING)

1MVA CUSTOMER STEP-UP TRANSFORMER
0.8kV PRIMARY WYE / 4.8kV SECONDARY GWYE
X/R Ratio=11.01, Z=5.75%, BIL=60kV

PV SUBARRAY:
134 SOURCE CIRCUITS OF 26 MODULES

166.5 kW INVERTER
(INVERTERS #4-9)



CONDUCTOR SCHEDULE

SYMBOL	CIRCUIT	IMAX (AMPS)	SETS	MATERIAL	INSULATION	RACEWAY	SIZE	QTY	CONDUCTOR	T3 I.O. 15/ T3 I.O. 60 AMPACITY	RACEWAY FILL	TEMPERATURE CORRECTION FACTOR	ADJUSTED AMPACITY	1-WAY LENGTH (FT)	VOLTAGE DROP (%)	OPERATING VOLTAGE (V)
1	PV MODULE WIRING (INTEGRATED BY MANUFACTURER)	9.86	1	CU	2kV PV	FREE AIR, (SUPPORTED) OR TRAY	12 12 N/A	1 1 1	DC+ DC- G	30	N/A	0.76	22.8	100	0.25%	1276
2	PV HOME RUN WIRING	19.72	1	CU	2kV PV	FREE AIR, (SUPPORTED), TRAY, PVC	8 8 12	1 1 1	DC+ DC- G	55	0.7	0.76	41.80	500	0.97%	1276
3	INVERTER OUTPUT CIRCUIT: ABB 166.5kW UNIT (RUNS OF <235)	120.2	1	CU	XLPE	PVC SCh 80	350 1/0 1/0	3 1 1	L N G	310	1	0.96	297.6	235	0.50%	800
3	INVERTER OUTPUT CIRCUIT: ABB 166.5kW UNIT (RUNS OF <475)	120.2	1	CU	XLPE	PVC SCh 80	350 1/0 1/0	3 1 1	L N G	310	1	0.96	297.6	475	1.00%	800
4	800V 500A SWITCHBOARD OUTPUT	360.5	1	AL	XLPE	(2) 4" PVC SCh 80	350 1/0 1/0	6 2 2	L N G	560	1	0.96	537.6	30	0.08%	800
5	800V 1000A SWITCHBOARD OUTPUT	721.2	1	AL	XLPE	(3) 4" PVC SCh 80	500 3/0 3/0	9 3 3	L N G	1050	1	0.96	1008.0	30	0.07%	800
6	0.5MVA SYSTEM OUTPUT (UNDERGROUND)	60.1	1	AL	XLPE	(1) 4" PVC SCh 80	350 1/0 1/0	3 1 1	L N G	280	1	0.96	268.8	509	0.07%	4800
7	1.5MVA SYSTEM OUTPUT (UNDERGROUND)	180.4	1	AL	XLPE	(1) 4" PVC SCh 80	350 1/0 1/0	3 1 1	L N G	280	1	0.96	268.8	170	0.07%	4800
8	1.5MVA SUBSTATION OUTPUT (AERIAL)	180.4	1	AL	ACSR	AERIAL	4/0 1/0 1/0	3 1 1	L N G	205	1	0.96	196.8	152	0.10%	4800

EQUIPMENT SCHEDULE

TAG #	QTY	MANUFACTURER	MODEL	PRODUCT	DESCRIPTION
A1	1716	TRINA	TSM-DE15M(I) 405	CRYSTALINE PV MODULE	6 x 24 monocrystalline Q.ANTUM solar half-cells
A2	3484	TRINA	TSM-DE15M(I) 405	CRYSTALINE PV MODULE	6 x 24 monocrystalline Q.ANTUM solar half-cells
C	9	ABB	PV5-166-TL US	166.5kW SOLAR INVERTER	1-MPPT INVERTER WITH INTEGRATED DC/AC DISCONNECT, 1500V DC INPUT, 800VAC 3P OUTPUT
D1	1	TBD	500A SWITCHBOARD	800V 3P4W SWITCHBOARD	800/462Vac 500A BUS WITH DISCONNECT W/ 35kAIC BREAKERS, NEMA 3R
D2	1	TBD	1000A SWITCHBOARD	800V 3P4W SWITCHBOARD	800/462Vac 1000A BUS WITH DISCONNECT W/ 35kAIC BREAKERS, NEMA 3R
E1	1	EATON OR EQUAL	STEP-UP TRANSFORMER	PAD-MOUNT DISTRIBUTION TRANSFORMER	PAD-MOUNTED STEP-UP TRANSFORMER, 0.5MVA, 800V-4.8kV Wye-g Wye-g, 4P, Z%=5.75%, X/R=6.82, BIL=60kV
E2	1	EATON OR EQUAL	STEP-UP TRANSFORMER	PAD-MOUNT DISTRIBUTION TRANSFORMER	LOOP FEED PAD-MOUNTED STEP-UP TRANSFORMER, 1MVA, 800V-4.8kV Wye-g Wye-g, 4P, Z%=5.75%, X/R=11.01, BIL=60kV
F2	3	EATON OR EQUAL	NCX	NON-FUSED CUTOUT	POLYMER NON-FUSED CUTOUT 15kV, 60kV BIL
M	1	COOPER OR EQUAL	METERING CLUSTER	MV METERING NEAR PCC	NGRID PRODUCTION METERING CLUSTER, SEL-735 OR EQUIVALENT
F1	3	ABB OR EQUAL	NCX	FUSED CUTOUT	POLYMER FUSED CUTOUT 15kV, EQUIPPED WITH 250A 280ms, 60kV BIL FUSES
R	1	COOPER OR EQUAL	CA008004EN	GOAB	GANG-OPERATED AIR BREAK SWITCH, 250A, 15kV