BARCLAY DAMON LLP

Ari M. Goldberg
Counsel

August 7, 2026

VIA HAND DELIVERY
VIA ELECTRONIC MAIL
Town of Florida
Town Board and Planning Board
c/o Town Clerk, Emily Staley
214 Hunter Road
Amsterdam, NY 12010
clerk@townofflorida.com

Re: Solar Energy Partners – Route 5S Solar Array
Site Plan, Special Use Permit, and Waiver Application
Initial Submission

Dear Supervisor Mead, Honorable Members of the Town Board, and the Planning Board:

Barclay Damon LLP represents Solar Energy Partners Amsterdam LLC ("Applicant"), record property owner of land on State Highway 5S, SBL 56.-3-7.22 ("Property") in the Town. The approximately 19.35 acre Property is zoned IBP – Industrial Business Park under the Town Zoning Ordinance ("Ordinance").

Applicant proposes an approximately 2.50 MWAC ground-mounted, fixed-tilt solar photovoltaic system (FT) that generates electricity for offsite use, sale, and consumption ("Solar Array"). Power generated from the Solar Array is added to the existing grid for local consumption. The Solar Array includes one pervious gravel access roads, inverter pads, a fence surrounding the entirety of the equipment, underground wiring, and overhead utility interconnection to equipment. Access is taken off the Route 5S.

The Solar Array will disturb approximately 0.5 acres and occupy 8.62 acres within the fence. Applicant will not disturb any area of the Property outside the Solar Array limits. Applicant also proposes a landscaping plan with a vegetative wall adjacent to Route 5S and in reliance on existing mature vegetation that will not be cleared. In replacing a fallow field and utilizing exiting mature vegetation bounding the field, the Solar Array minimizes land disturbance, tree clearance, and visual impact. Applicant also commits to provision of a decommissioning plan and bond, and Applicant will comply with its proposed Operations & Maintenance Plan.

Under Ordinance § 45.5, the Solar Array is a permitted use on the Property subject to the issuance of a Special Use Permit from the Town Board and Site Plan approval from the Planning Board. Additionally, the Solar Array requires waivers from the Town Board. Enclosed to this Application, please find the following Exhibits:

1. Site Plan and Special Use Permit Application Form
2. Preliminary Site Plan Set
    - G-001 Title Sheet
    - C-003 Slope Analysis
    - C-100 Site Layout
    - C-300 Fence Details
    - E-200 DC Single Line Diagram
    - E-201 AC Single Line Diagram
    - E-601, 602, 603 Electrical Details
    - E-800 Equipment Specification
    - E-900 Labels & Markings
    - S-100 Concrete Pad Details
    - S-200, 201 Racking Details
    - L1 Preliminary Master Landscape Plan
3. Town Ordinance § 45.5 Analysis
4. Proposed Operations and Maintenance Plan
5. Preliminary Decommissioning Plan
6. Full Environmental Assessment Form
7. June 25, 2026 Wetland Delineation by Passero Associates
8. February 6, 2025 NYS Division for Historic Preservation, Office of Parks, Recreation and Historic Preservation, Determination of No Impact
9. Visual Impact Assessment
10. Glare Analysis
11. Agricultural Data Statement
12. Abridged CESIR with National Grid

State Environmental Quality Review Act

Article 8 of the New York Environmental Conservation Law and 6 NYCRR Part 617—SEQRA—requires state and local government agencies to consider environmental impacts of proposed actions during discretionary decision-making. In this case, development of the Solar Array is a Type 1 action requiring a coordinated SEQRA review.

It is anticipated that the Planning Board will serve as Lead Agency pursuant to SEQRA. Enclosed as Exhibit 6 is a full environmental assessment form. Please note that the proposed action has been defined broadly to include all associated site work and activity. Further, a SEQRA determination must be made prior to any final action by the Town Board and Planning Board.

General Municipal Law

Pursuant to General Municipal Law ("GML") § 239-m, we ask that a full statement of the proposed action be referred to the Montgomery County Planning Board. Please also note that GML § 239-m county referral must be completed prior to any final action by the Town Board and

Planning Board. Additionally, the Property is within 500 feet of the City of Amsterdam and Town of Florida border. Under GML § 239-nn, please notify the Amsterdam City Clerk of any public hearing on this Solar Array.

Special Use Permit

The Solar Array is permitted subject to issuance of a special use permit under Ordinance § 45.5. Applicant has strategically chosen the Property given its isolation from residential uses, proximity to necessary utility infrastructure, and compatible (if not more intense) adjacent uses. The Solar Array is a low-impact use requiring little in-person monitoring and maintenance.

Enclosed as Exhibit 3 is Applicant's complete set of responses to each section of Ordinance § 45.5, including specific criteria for the special use permit. Following completion of SEQRA and county referral, a report and recommendation on the special use permit by the Planning Board, and site plan approval by the Planning Board, the Town Board may make a determination on the special use permit required for the Solar Array.

Waiver Request

The Property is relatively narrow, stretching between State Route 5S in the north where the property is 411 feet wide, and the State Thruway in the south, and measuring 792 feet. Applicant has also designed the Solar Array to avoid disturbance with any wetlands or potential wetlands and minimize tree clearing and ground disturbance. Instead of clearcutting and maximizing the site, Applicant has consciously opted to develop within preexisting cleared areas and away from known drainage areas of the Property.

Regardless of property conditions, zoning classification, or project design, however, the Ordinance § 45.5.C.2(a), requires that the Solar Array be setback a minimum 500' from the Property boundary and 200' from wetlands, ponds, and streams. The Solar Array is designed to minimize visual impact, reduce environmental concern, and maximize use of a small, industrially zoned underused parcel bounded by two major commercial highways. The Solar Array, as designed, also complies with the standard setbacks for uses in the IBP and on the Property.

Ordinance § 45.5.C.2(p), permits the Town Board to "waive certain requirements [contained in the Ordinance] under their respective review jurisdictions." As the specific standards for the Solar Array as a special use contain the required setbacks, the Town Board has the jurisdiction to waive application of the setbacks to the Solar Array. Therefore, Applicant respectfully seeks a waiver from the Town Board of the application of the minimum setbacks set forth in Ordinance § 45.5.C.2(a).

While the Solar Array cannot comply with the bulk and area requirements of the Ordinance § 45.5, it still meets the intention of the Ordinance and specific solar regulations. The Town's intention when it adopted its solar regulations, was to keep solar on properties zoned industrial. This Solar Array does exactly that—it is located on a correctly zoned parcel, Industrial Business

Park, IBP. As designed, the Solar Array even complies with required setbacks for other uses in the IBP district, and the relief sought with this Waiver is consistent with the IBP setback requirements.

The Solar Array also meets the intention of the Town's Ordinance because the potential impacts are still mitigated. Substantial landscaping and selective tree clearing help to screen the array from view. The Property itself is correctly zoned for the use, but the Property is not even 1,000 feet wide, so a buildable area in compliance with all solar setbacks is not feasible.

Additionally, Applicant has respected the existence of wetlands in coordinated review efforts with the Army Corps. of Engineers and State Department of Environmental Conservation. As of the date of this submission, Applicant has requested a jurisdictional determination from each agency. The Solar Array as designed, does *not* cross any wetland, regardless of their jurisdictional determinations and respects the regulated buffer regardless of jurisdiction.

Overall, this waiver request does not undercut the purpose of setbacks. The Solar Array is not adjacent to residential uses; it is strategically located on a narrow industrially zoned parcel between two highways. The waiver acknowledges the uniqueness and circumstances of the parcel, adaptive and tactical reuse of the property, and conscientious design that while not in compliance with solar setbacks, embodies the Town's intent to keep solar industrial, while also minimizing tree clearing, adding landscaping, and avoiding significant ground disturbance. Therefore, Applicant respectfully asks the Town Board to grant its wavier request and deem the minimum setbacks set forth in Ordinance § 45.5.C.2(a) inapplicable to the Solar Array.

Site Plan

The Planning Board maintains approval authority of Applicant's site plan, and the Planning Board must make a report and recommendation to the Town Board on the special use permit prior to the Town Board's determination. The Planning Board must make its SEQRA determination before its site plan decision. County referral must also be completed before the Planning Board may render a site plan decision. Applicant also expects that the Planning Board will make its site plan decision prior to final Town Board action on the special use permit.

Conclusion

Solar Energy Partners is excited to bring this community solar array to the Town of Florida and discuss it with the Town and public. Kindly place this matter on the agenda for the next Town Board meeting. Please reach out with any questions and thank you for your consideration.

Very truly yours,

Ari M. Goldberg

Exhibit 1

Town of Florida
Site Plan and Special Use Permit

Application #:_____
Date:_____
Project Name:_____

Town of Florida
Planning Board
Application to the Planning Board

A completed Application must be filed at least ten (10) days prior to the meeting at which it is to be considered by the Planning Board, including all applicable attached information.

Applicant: Solar Energy Partners Amsterdam LLC
Address: State Highway 5S Florida, NY
SBL 56.-3-7.22
Phone: ( )

Property Owner:
(if different)
Address:
Phone:( )

Professional Advisor: c/o Barclay Damon LLP
Address: 200 Delaware Avenue Suite 1200
Buffalo, NY 14202
Phone: ( ) (716) 858-3878

Other:
(if appropriate, please specify)
Address:
Phone: ( )

1) Property Location:

Address: State Highway 5S, Town of Florida, NY - Montgomery County
General Location: Across from the Montgomery County SPCA and neighboring the Amsterdam Transfer Station.
Zoning District: IBP – Industrial Business Park
Tax Parcel ID# (SBL): SBL 56.3-7.22

2) Type of Application (please check appropriate box(s)):

☐ **Major Subdivision/**	**$500**
☐ **Minor Subdivision**	**$100**
☒ **Major Site Plan**	**$500**
☐ **Minor Site Plan**	**$100**
☑ **Special Permit**	**$100**
☐ **Lot Line Adjustment**	**$100**

3) Project Description: Applicant proposes to construct a 2.5 MW Solar Array.
Please see attached cover letter for further information.

For each type of application a checklist detailing the required information has been attached. These checklists are only intended to be a guide to the applicant, for specifics on submission requirements, procedures, timeframes, etc., the applicant should refer to the applicable Town Ordinance (Zoning, Subdivision, etc.), and or State Law (SEQR, Ag & Markets, etc).

Applicant Signature: /s/ Ari Goldberg Date: 8/7/2026

Property Owner's Signature: /s/ John Hurley Date: 8/7/2026

For Office Use Only

Total Amount received: $_____
Check # (s)/Date: _____
Received By: _____

Zoning Enforcement Officer's certification that application is complete and in conformance with Zoning Regulations.

_____
(Zoning Enforcement Officer)

For Planning Board Use Only

The Planning Board held a Public Hearing on _____ (day) of _____ (date), _____ (year) in consideration of this application.

The application is hereby:

- ☐ **Approved**
- ☐ **Approved with modifications**
- ☐ **Disapproved**

Modifications and comments: _____
_____
_____
_____
_____
_____
_____

_____
Chairman, Town of Florida Planning Board

_____
Date

Exhibit 2

Preliminary Site Plan Set

SOLAR ELECTRIC SYSTEM

SEP AMSTERDAM

1225 NY-5S

AMSTERDAM, NY 12010

GENERAL NOTES

SCOPE OF WORK

THE PROJECT ENTAILS THE INSTALLATION OF A 2,656,080 W DC RATED PHOTOVOLTAIC SYSTEM AT 1225 NY-5S, AMSTERDAM, NY.

THIS PHOTOVOLTAIC SYSTEM WILL FUNCTION WITH 1500V DC PHOTOVOLTAIC MODULES (SOURCE CIRCUITS) INSTALLED ON A GROUND MOUNTED 25° TILTED SYSTEM AT THE SPECIFIED PROJECT LOCATION.

PHOTOVOLTAIC DIRECT CURRENT POWER WILL BE INVERTED TO AC POWER BY THE SPECIFIED UL APPROVED INVERTER. SEE ELECTRICAL PAGES AND INVERTER SPECIFICATION SHEETS.

INTERCONNECTION

THIS PHOTOVOLTAIC SYSTEM WILL CONNECT WITH THE EXISTING ELECTRICAL SYSTEM AT ONE PLACE SPECIFIED AS THE POINT OF COMMON COUPLING (POCC).

THIS SYSTEM IS INTENDED TO BE OPERATED IN PARALLEL WITH THE UTILITY SERVICE PROVIDER. ANTI-ISLANDING PROTECTION IS A REQUIREMENT OF UL 1741 AND IS INTENDED TO PREVENT THE OPERATION OF THE PV SYSTEM WHEN THE UTILITY GRID IS NOT OPERATIONAL.

IN ORDER TO INTERCONNECT THE PHOTOVOLTAIC SYSTEM, A POWER OUTAGE AND CLEARANCE OF FACILITY EQUIPMENT MAY NEED TO OCCUR. THIS SHALL BE COORDINATED WITH THE FACILITY AND UTILITY SERVICE PROVIDER.

PERMISSION TO OPERATE THE SYSTEM IS NOT AUTHORIZED UNTIL FINAL INSPECTIONS AND APPROVALS ARE OBTAINED FROM THE LOCAL AUTHORITY HAVING JURISDICTION AND THE LOCAL UTILITY SERVICE PROVIDER.

SYSTEM DESCRIPTION

(1,848) HANWHA Q.PEAK DUO XLG11S.3/BFG 585 WATT SOLAR MODULES
(24) MODULES IN SERIES, (77) TOTAL STRINGS
(3,150) FIRSTSOLAR FS-7500A-TR1 500 WATT SOLAR MODULES
(5) MODULES IN SERIES, (630) TOTAL STRINGS
(7) SOLIS S6-GU250K-EVH-US-M12 INVERTERS (250,000 WATTS EA., 98.5% CEC EFFICIENCY)
(2) SOLIS S6-GU250K-EVH-US-M12 INVERTERS (125,000 WATTS EA., 98.5% CEC EFFICIENCY)

2,656,080 WATTS DC TOTAL
2,000,000 WATTS AC TOTAL

APPLICABLE CODES

2025 NEW YORK STATE BUILDING CODE
2024 INTERNATIONAL BUILDING CODE
2023 NATIONAL ELECTRICAL CODE
NATIONAL FIRE PROTECTION ASSOCIATION 70E

U.L. LISTINGS

PHOTOVOLTAIC MODULES ARE U.L. LISTED FOR THEIR PURPOSE. ALL OF THE ELECTRICAL EQUIPMENT USED IN THIS SOLAR ELECTRIC SYSTEM SHALL BE U.L. LISTED AND IN OUTDOOR AREAS ENCLOSURES AND CABINETS WILL MEET APPROPRIATE NEMA STANDARDS.

ELECTRICAL COMPONENTS AND MATERIALS SUCH AS MODULES, INVERTERS, COMBINER BOXES, DISCONNECTS, CONDUIT, WIRING, ETC, SHALL BE LISTED FOR ITS PURPOSE AND INSTALLED IN A WORKMAN LIKE MANNER.

ATTACHMENT

SOLAR MODULES WILL BE SUPPORTED BY A FIXED STRUCTURE

THE FIXED STRUCTURE SHALL MEET DEAD LOAD, WIND LOAD, AND SEISMIC STANDARDS LISTED IN ASCE 7-22.

STRUCTURAL STABILITY AND THE MEANS OF ATTACHMENT WILL BE CERTIFIED BY A LICENSED ENGINEER. SEE STRUCTURAL PAGES, AND ATTACHMENTS IF PROVIDED, FOR MORE DETAILS

ALL FASTENERS ARE TO BE STAINLESS STEEL UNLESS OTHERWISE NOTED. CONNECTORS SHALL BE TORQUED PER DEVICE LISTING OR ENGINEERING RECOMMENDATIONS. HEX OR SQUARE DRIVE SOCKET HEAD SCREWS ARE RECOMMENDED.

INSTALLATION

ALL ELECTRICAL WORK TO BE INSTALLED BY A QUALIFIED LICENSED ELECTRICIAN AND APPRENTICES WORKING UNDER THE DIRECT SUPERVISION OF THE LICENSED CONTRACTOR.

ALL FABRICATION AND MANUFACTURING SHALL BE PERFORMED BY CERTIFIED INDIVIDUALS IN APPROVED ASSEMBLY AND FABRICATION SHOPS. ELECTRICAL OUTDOOR ENCLOSURES SHALL BE NEMA 4 RATED. ALL ELECTRICAL EQUIPMENT TO BE U.L. LISTED FOR ITS PURPOSE.

PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED AMONG SITE CONDITIONS, MANUFACTURER RECOMMENDATIONS, OR AUTHORITY HAVING JURISDICTION.

CHANGES SHALL BE SUBMITTED IN WRITING TO THE ENGINEER IN THE FORM OF A "RFI", REQUEST FOR INFORMATION, PRIOR TO MAKING ANY CHANGES. APPROVED CHANGES SHALL REQUIRE A DRAWING REVISION TO MAINTAIN CONTROL OVER THE ENGINEER APPROVED DESIGN. ALL CHANGES SHALL BE SUBMITTED TO THE ENGINEER AND UTILITY FOR APPROVAL PRIOR TO IMPLEMENTING CHANGE.

THE ELECTRICAL CONTRACTOR IS ADVISED THAT ALL DRAWINGS AND COMPONENT MANUALS ARE TO BE UNDERSTOOD PRIOR TO INSTALLATION. THE CONTRACTOR IS ADVISED TO HAVE ALL SWITCHES IN THE "OFF" POSITION AND FUSES REMOVED PRIOR TO INSTALLATION OF FUSE-BEARING COMPONENTS.

Sheet List Table

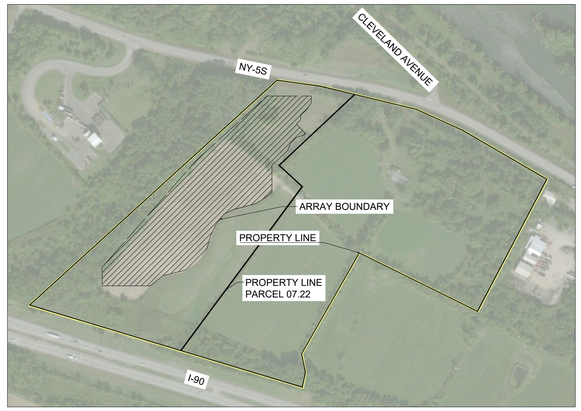
Sheet Number	Sheet Title	Revision #
T-100	TITLE PAGE	1
C-003	SLOPE ANALYSIS	3
C-100	SITE LAYOUT	3
C-300	FENCE DETAILS	1
E-200	DC SINGLE LINE DIAGRAM	2
E-201	AC SINGLE LINE DIAGRAM	2
E-601	ELECTRICAL DETAILS	1
E-602	ELECTRICAL DETAILS	1
E-603	ELECTRICAL DETAILS	1
E-800	EQUIPMENT SPECIFICATION	1
E-900	LABELS & MARKINGS	2
S-100	CONCRETE PAD DETAILS	0
S-200	RACKING DETAILS	0
S-201	RACKING DETAILS	0

BILL OF MATERIALS

(1,848) HANWHA Q.PEAK DUO XLG11S.3/BFG 35MM 580 WATT SOLAR MODULES
(3,150) FIRSTSOLAR FS-7500A-TR1 500 WATT SOLAR MODULES
(7) SOLIS S6-GU250K-EVH-US-M12 INVERTERS (250,000 WATTS EA. 98.5% CEC EFFICIENCY)
(2) SOLIS S6-GU250K-EVH-US-M12 INVERTERS (125,000 WATTS EA. 98.5% CEC EFFICIENCY)
(1) 600V LOW VOLTAGE PANELBOARD
- AUX. 120/240V BREAKERS W/ DRY TYPE TRANSFORMER
(1) 15 KV GANG OPERATED AIR BREAK SWITCH
(1) 2000KVA STEP UP TRANSFORMERS (600V TO 13.2KV)
(LOT) 10KV, 8.4KV MCOV LIGHTNING ARRESTERS
(LOT) ALSO ENERGY MONITORING PACKAGE
(LOT) GROUND MOUNT RACKING 25° TILT

AZIMUTH OF 180°
TILT OF 25°

VINCINITY MAP



NORTH

PROJECT DEVELOPER

SOLAR LIBERTY
6500 SHERIDAN DR.
SUITE #120
BUFFALO, NY 14221

PROJECT ENGINEER:

ERIK VICKERD
ERIK.VICKERD@
SOLARLIBERTY.COM
(716) 634-3780 EXT 105

CONTRACTOR

SOLAR LIBERTY
6500 SHERIDAN DR.
SUITE #120
BUFFALO, NY 14221

SITE CONTACT

SOLAR LIBERTY
6500 SHERIDAN DR.
SUITE #120
BUFFALO, NY 14221

STRUCTURAL ENGINEER

ELECTRICAL ENGINEER

WHITMAN
EDWARD ALONSO
100 FRANKLIN SQUARE DR,
SUITE 200
SOMERSET, NJ 08873
(732) 390-5858
NY PE REG# 089144-1

ENVIRONMENTAL ENGINEER

PASSERO ASSOCIATES
242 WEST MAIN STREET, SUITE 100
ROCHESTER, NY 14614

(585) 325-1000
Fax: (585) 760-8580

FOR OFFICIAL USE ONLY

WHITMAN
Environmental • Engineering • Energy
Waste Management • EH&S Services
100 Franklin Square Drive, Suite 200
Somerset, NJ 08873
TEL: (732) 390-5858
FAX: (732) 390-9496

SOLARLIBERTY
THE FUTURE OF ENERGY INDEPENDENCE

SOLAR LIBERTY ENERGY SYSTEMS, INC.
6500 SHERIDAN DR.
BUFFALO, NY 14211
716-634-3780

SOLAR ELECTRIC SYSTEM CLIENT:
SEP AMSTERDAM
1225 NY-5S
AMSTERDAM, NY 12010

SHEET TITLE:

TITLE PAGE

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

0 ½" 1"

STAMP:

THIS DRAWING IS THE PROPERTY OF SOLAR LIBERTY. THIS INFORMATION IS CONFIDENTIAL AND IS TO BE USED ONLY IN CONNECTION WITH WORK DESCRIBED BY SOLAR LIBERTY. NO PART IS TO BE DISCLOSED TO OTHERS WITHOUT WRITTEN PERMISSION FROM SOLAR LIBERTY.

DATE: 08/06/2026
DRAWN BY: MC
ENGINEER: EV
APPROVED BY: ---

NO.	REVISION	DATE
0	PERMITTING SET	12/13/23
1	UPDATED PERMIT SET	05/26/26
2	REVISED PERMIT SET	07/23/26
3	UPDATED PERMIT SET	08/06/26

PROJECT PHASE:

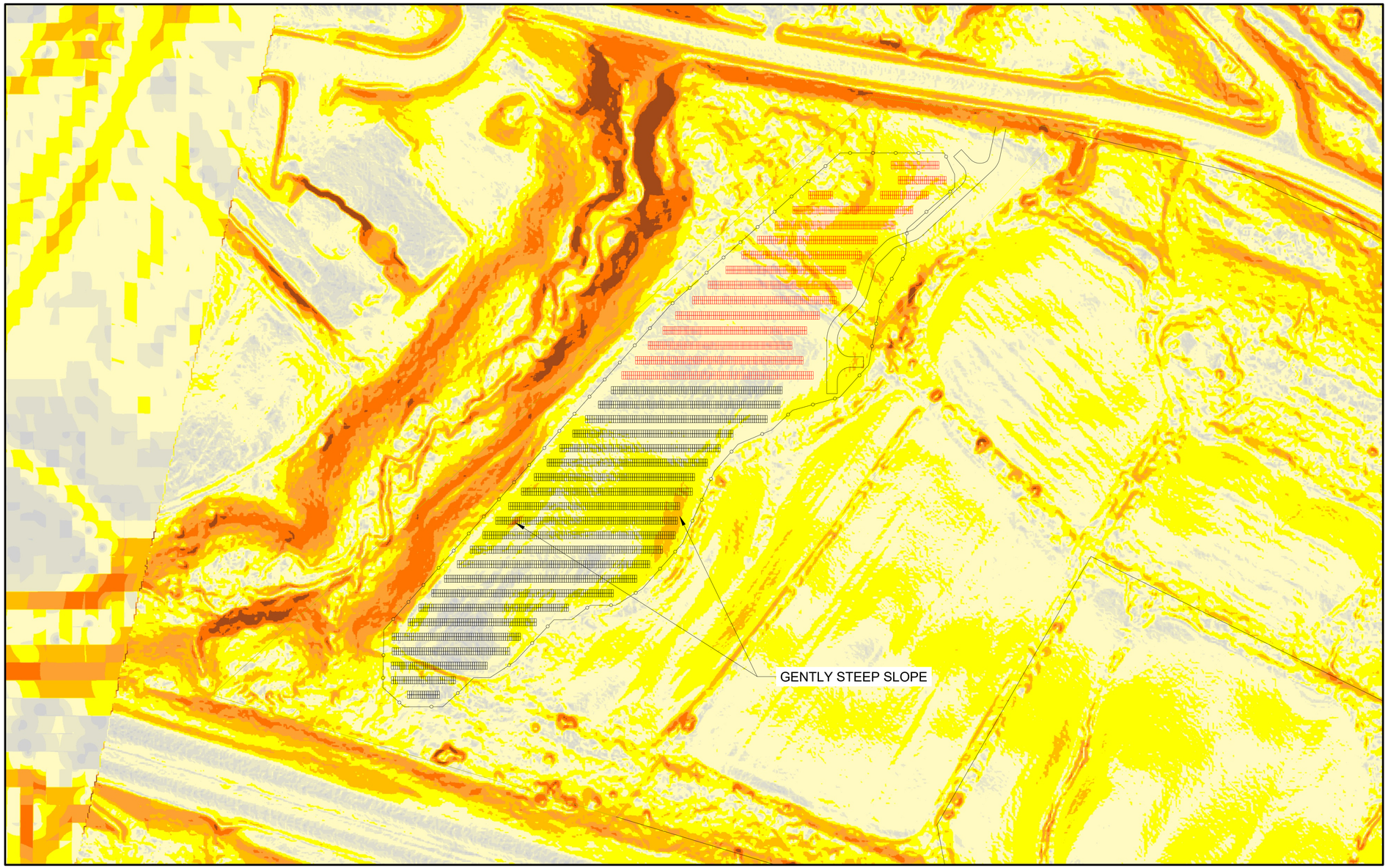
SCALE:

N.T.S.

DRAWING NO.:

T-100

SEP Amsterdam Slope Analysis



5/22/2024

Terrain: Slope Map

- Flat (0°)
- Nearly level (1°)
- Gently level (2°)
- Gently sloping (3° - 5°)
- Strongly sloping (6° - 10°)
- Gently steep (11° - 15°)
- Moderately Steep (16° - 20°)
- Steep (21° - 30°)
- Very steep (31° - 90°)

1 / C.003 SITE PLAN
Scale: 1" = 100'
0' 50' 100' 200' NORTH

1:4,296
0 0.03 0.05 0.1 mi
0 0.04 0.09 0.17 km

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community,

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Somerset, NJ 08873
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SEP AMSTERDAM

1225 NY-5S
AMSTERDAM, NY 12010

SHEET TITLE:
SLOPE ANALYSIS

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

0 ½" 1"

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NO.	REVISION	DATE
0	PERMITTING SET	12/13/23
1	UPDATED PERMIT SET	05/26/26
2	REVISED PERMIT SET	07/23/26
3	UPDATED PERMIT SET	08/06/26

PROJECT PHASE:

SCALE:
AS NOTED

DRAWING NO.:
C-003

PV SYSTEM SUMMARY	
TOTAL STC DC SYSTEM SIZE	2,656.08 kW
SOLAR MODULE 1 DC SYSTEM SIZE	1,081.08 kW
SOLAR MODULE 1 MODEL	Q.PEAK DUO XL-G11S.3/BFG
SOLAR MODULE 1 STC DC RATING	585W
SOLAR MODULE 1 INFO	95.1" x 44.7" x 1.38", 75.8lbs
SOLAR MODULE 1 COUNT	1,848
SOLAR MODULE 1 STRINGING	3 x [24M x 22S] 1 x [24M x 11S]
SOLAR MODULE 2 DC SYSTEM SIZE	1,575.00 kW
SOLAR MODULE 2 MODEL	FS-7500A-TR1
SOLAR MODULE 2 STC DC RATING	500W
SOLAR MODULE 2 INFO	90.5" x 47.84" x 0.24", 87.5lbs
SOLAR MODULE 2 COUNT	3,150
SOLAR MODULE 2 STRINGING	3 x [[5M x 6S] x 24], 1 x [[5M x 6S] x 22], 1 x [[5M x 6S] x 11]
RACKING SYSTEM	TERRASMART SINGLE POST RACKING
PITCH OF ARRAY	25°
INVERTER MODEL	7 x SOLIS S6-GU250K-EHV-US-M12 2 x SOLIS S6-GU250K-EHV-US-M12 (DERATE TO 125kW)
ARRAY AZIMUTH	180°
PANEL CLEARANCE	3'
MAX PANEL HEIGHT	9'-10"
INTERCONNECTION VOLTAGE	13.2kV, 3-PH 4-WIRE, NATIONAL GRID

LEGEND

- SOLAR MODULE
- INVERTER RACK
- ACCESS ROAD
- EQUIPMENT PAD
- UNDERGROUND TRENCH
- FENCE
- WETLAND
- TREE CLEARING AREA

DISTURBANCE AREA NOTES

TOTAL AREA INSIDE FENCE
8.62 ACRES
ARRAY ENVELOPE
6.76 ACRES
GROUND DISTURBANCE
TOTAL ACREAGE TO BE PHYSICALLY DISTURBED: 0.48 ACRES (DOESN'T INCLUDE TREE CLEARING)

NATIVE POLLINATOR SEEDING NOTE

TO PROVIDE THE FOLLOWING SEED MIXTURES DURING CONSTRUCTION:
TEMPORARY SEEDING:
RYEGRASS (ANNUAL OR PERENNIAL) @ 30LBS. PER ACRE OR 0.7 LBS. PER 1000 SQUARE FEET.
PERMANENT SEEDING:
65% KENTUCKY BLUEGRASS BLEND @ 85LBS. PER ACRES OR 2.0-2.6 LBS. PER 1000 SQUARE FEET 20%
PERENNIAL RYEGRASS @ 26-35 LBS. PER ACRE OR 0.6-0.8 LBS. PER 1000 SQUARE FEET
15% FINE FESCUE @ 19-26 LBS. PER ACRE OR 0.4-0.6 LBS. PER 1000 SQUARE FEET
FOR ALL SEEDING & STABILIZATION MEASURES IT IS THE RESPONSIBILITY OF THE OWNER & DEVELOPER TO ENSURE THAT FINAL STABILIZATION OCCURS AS REQUIRED BY THE NYSDEC. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 7 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 7 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN(s).

MINIMUIM POLE-TO-POLE DISTANCE
25'-0"
10' MAX
20' MIN
POI - EXISTING POLE
NATIONAL GRID 13.2kV DISTRIBUTION LINE # 36_35_50153
EXISTING CEMETARY
U(POI POLE)-1 UTILITY RECLOSER ON NEW UTILITY OWNED POLE
C(POI POLE)-1 C511 GENERATOR DISCONNECT POLE
C(POI POLE)-2 UTILITY PRIMARY METERING POLE (POLE BY SL)
C(POI POLE)-3- CR512 CUSTOMER RECLOSER POLE
C(POI POLE)-4 CUSTOMER RISER POLE WITH C513 SOLID BLADE DISCONNECT
ARRAY TO PROPERTY LINE MINIMUM
50'-7"
FENCE TO PROPERTY LINE MINIMUM
25'-0"
ARRAY MODULE 1 QCELL 585W
596' CONDUCTOR LENGTH ARRAY TO INTERCONNECTION SEE E-603 FOR TYPICAL TRENCH DETAIL
TRANSFORMER, LV COMBINER GEAR, CUSTOMER METERING, & GROUNDING XFMR ON CONCRETE PAD
1308'-8"
TREE CLEARING 2.43 ACRES
DELINEATED STREAM (TYP.)
29'-1"
ARRAY MODULE 2 FIRST SOLAR 500W
14'-6"
14'-0"
124'-6"
8' AGRICULTURAL FENCE
APPROX. PROPERTY LINE PARCEL 07.22
WETLAND

1 C-100 SITE PLAN
Scale: 1" = 80'
0' 40' 80' 160'
NORTH

WHITMAN
Environmental • Engineering • Energy
Waste Management • EH&S Services
100 Franklin Square Drive, Suite 200
Somerset, NJ 08873
TEL: (732) 390-5858
FAX: (732) 390-9496

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SOLAR ELECTRIC SYSTEM CLIENT:
SEP AMSTERDAM
1225 NY-5S
AMSTERDAM, NY 12010

SHEET TITLE:
ARRAY 1
SITE PLAN

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

0 ½" 1"

STAMP:

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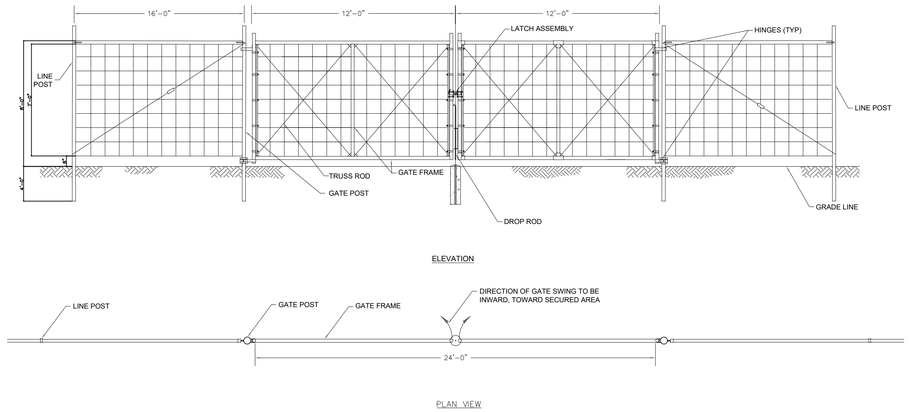
DATE: 08/06/2026
DRAWN BY: MC
ENGINEER: EV
APPROVED BY: ---

NO.	REVISION	DATE
0	PERMITTING SET	12/13/23
1	UPDATED PERMIT SET	05/26/26
2	REVISED PERMIT SET	07/23/26
3	UPDATED PERMIT SET	08/06/26

PROJECT PHASE:

SCALE:
1" = 80'

DRAWING NO.:
C-100

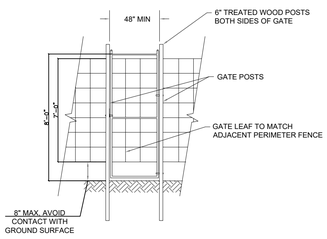


1 E-101 VEHICLE ACCESS GATE DETAIL

SCALE: N.T.S.

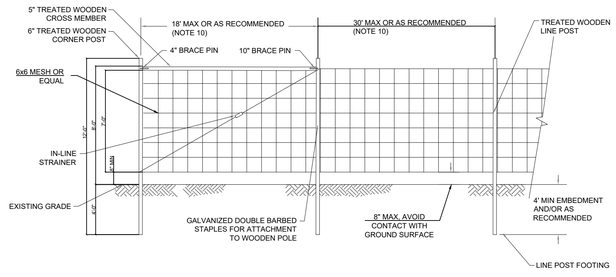
FENCE AND GATE NOTES:

1. INSTALL ALL FENCE POSTS, CONCRETE FOOTINGS AND FASTENINGS ACCORDING TO MANUFACTURERS SPECIFICATIONS.
2. GROUNDING OR BONDING OF THE SECURITY FENCE SYSTEM SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), AND ALL OTHER APPLICABLE STATE AND LOCAL CODES.
3. PROVIDE ALL LABOR, MATERIALS AND APPURTENANCES NECESSARY FOR INSTALLATION.
4. DOUBLE SWING GATES TO OPEN INWARD TOWARD SECURE AREA, AS SHOWN ON DRAWINGS.
5. INSTALL POSTS IN CONCRETE FOOTINGS PER APPLICABLE CODES AND FENCE MANUFACTURER SPECIFICATIONS.
6. INSTALL PERIMETER FENCE WARNING SIGNS 5 FEET ABOVE GRADE IN ACCORDANCE WITH NEC 110.212(B).
7. CONCRETE ANCHOR/BASE SHALL BE MIN. 3000 PSI. CAST-IN-PLACE FOR ALL CORNERS, PULL, TERMINAL AND GATE POSTS. ALL OTHER POSTS CAN BE DIRECT PUSH/BURIAL. IF POST IS EMBEDDED MIN. 3 FEET.
8. ALL POSTS SHALL EXTEND A MIN. 8 FEET ABOVE GROUND SURFACE.
9. PROVIDE HORIZONTAL AND DIAGONAL BRACING AT ALL CORNERS, PULL, TERMINAL, AND GATE POSTS.
10. ADJACENT POSTS TO GATES SHALL BE SPACED AT A MAXIMUM OF 18'-0". INSTALL LINE POSTS AT 20-30' INTERVALS DEPENDING ON LOCAL SOIL CONDITIONS, TERRAIN, AND MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL FOR GATE POST SPACING.
11. POST SHALL BE PRESSURE TREATED (PT) PINE OR EQUIVALENT.
12. HORIZONTAL WOOD BRACES SHALL BE PINNED OR DOWELED.
13. GATE SHALL BE PT WOOD (4" MIN. SQUARE STOCK), METAL (2"Ø BLACK COATED) OR APPROVED EQUIVALENT.
14. MESH SHALL BE HIGH TENSILE STEEL 6" x 6" GRADUATED MESH FIXED-KNOT 12.5 GAUGE WIRE. PROVIDE SOLIDLOCK 17/96 OR EQUIVALENT.
15. FENCE CLEARANCE SET TO 8" TO ALLOW FOX PASSAGE.
16. INSTALL KNOX BOX OR SIMILAR AT GATE ENTRANCE.
17. ANY MODIFICATION BY CONTRACTOR TO BE FIELD VERIFIED BY ENGINEER.



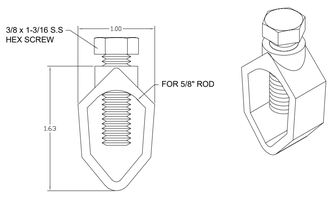
2 E-101 EMERGENCY PEDESTRIAN GATE DETAIL

SCALE: N.T.S.

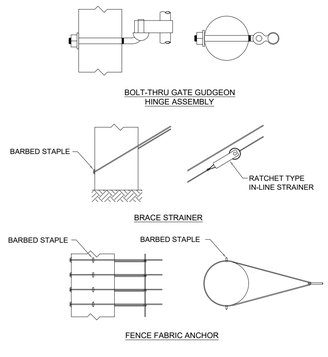


3 E-101 PERIMETER AGRICULTURAL FENCE DETAIL

SCALE: N.T.S.

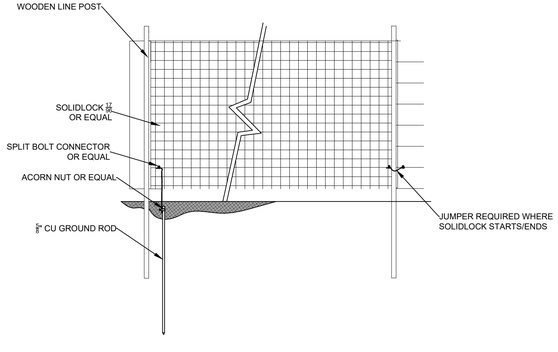


GROUND ROD CLAMP DETAIL



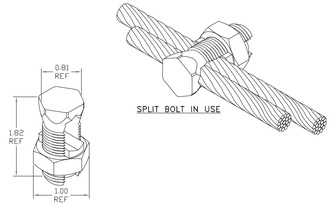
4 E-101 FASTENING DETAIL

SCALE: N.T.S.



5 E-101 GROUNDING DETAIL

SCALE: N.T.S.



SPLIT BOLT CONNECTOR DETAIL

6 E-101 GROUNDING CONNECTORS

SCALE: N.T.S.

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716-634-3780

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SHEET TITLE:

FENCE DETAILS

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

0 ½" 1"

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APPROVED BY:	– – –

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PROJECT PHASE:

SCALE:

N.T.S.

DRAWING NO.:

C-300

1A (24) HANWHA QCELL SOLAR MODULES WIRED IN SERIES. EACH MODULE INCLUDES OUTDOOR RATED QUICK CONNECTS WITH TYPE MC4 CONNECTORS FOR MODULE INTERCONNECTION. DO NOT REMOVE THE QUICK CONNECTS, OTHERWISE THE MODULE WARRANTY AND THE UL LISTING MAY BE INVALIDATED. GROUND MODULES FRAMES IN ACCORDANCE WITH THEIR INSTALLATION MANUAL. GROUND METAL RACKING STRUCTURE IN ACCORDANCE WITH RACKING MANUFACTURER RECOMMENDATIONS.

1B (5) FIRST SOLAR, SOLAR MODULES WIRED IN SERIES. EACH MODULE INCLUDES OUTDOOR RATED QUICK CONNECTS WITH TYPE MC4 CONNECTORS FOR MODULE INTERCONNECTION. DO NOT REMOVE THE QUICK CONNECTS, OTHERWISE THE MODULE WARRANTY AND THE UL LISTING MAY BE INVALIDATED. GROUND MODULES FRAMES IN ACCORDANCE WITH THEIR INSTALLATION MANUAL. GROUND METAL RACKING STRUCTURE IN ACCORDANCE WITH RACKING MANUFACTURER RECOMMENDATIONS.

1C (22) STRINGS OF (24) HANWHA QCELL 585W MODULES PER INVERTER.

1D (11) STRINGS OF (24) HANWHA QCELL 585W MODULES PER INVERTER.

1E (144) STRINGS OF (5) FIRST SOLAR 500W MODULES PER INVERTER.

1F (132) STRINGS OF (5) FIRST SOLAR 500W MODULES PER INVERTER.

1G (66) STRINGS OF (5) FIRST SOLAR 500W MODULES PER INVERTER.

1H SHOALS BLA INTERCONNECT SYSTEM. USED WITH FIRST SOLAR SERIES 6 OR 7 MODULES. COMBINES THE OUTPUT OF 6 STRINGS INTO A SINGLE OUTPUT. UV/SUNLIGHT RESISTANT. 1500VDC/45A (#10 AWG) RATING

1J STRING WIRING CONNECTORS TO MATCH MODULE MANUFACTURER'S SPECIFICATIONS

2A SOLIS S6-GU250K-EHV-US-M12 250kW INVERTER. MAX OUTPUT CURRENT @ 600V - 240.6A. UL1741 LISTED, IEEE1547 COMPLIANT WITH INTEGRAL ANTI-ISLANDING PROTECTION FEATURES EMPLOYING POSITIVE FEEDBACK. UL1741 LISTING INCLUDES COMPLIANCE WITH IEEE519 FOR POWER QUALITY, IEEE929 FOR INTERCONNECTION SAFETY AND THE NATIONAL ELECTRICAL CODE. INVERTER IS U.L. LISTED AS A UNIT. UNIT IS EQUIPPED WITH UL1741 APPROVED GROUND FAULT DETECTION DEVICE THAT MEETS NEC 250.122 REQUIREMENTS FOR EQUIPMENT GROUNDING.

INVERTER FEATURES INTEGRAL, MANUAL AC & DC DISCONNECT SWITCHES & INTEGRAL DC COMBINER WITH STRING FUSING.

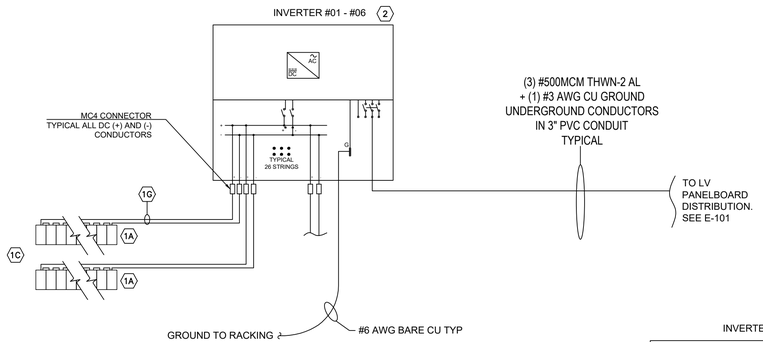
2B SOLIS S6-GU250K-EHV-US-M12 INVERTER DERATED TO 125kW. MAX OUTPUT CURRENT @ 600V - 120.3A

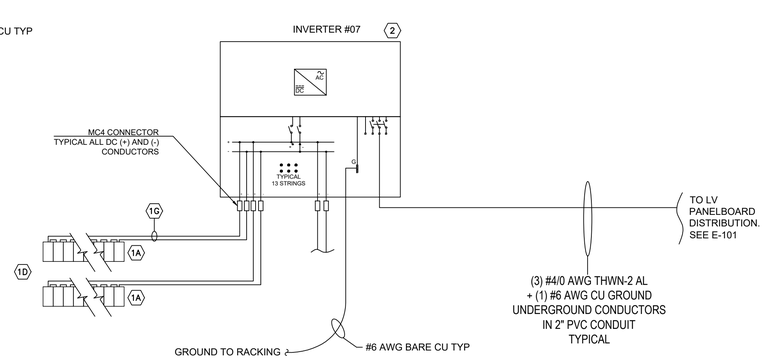
SYSTEM DESCRIPTION

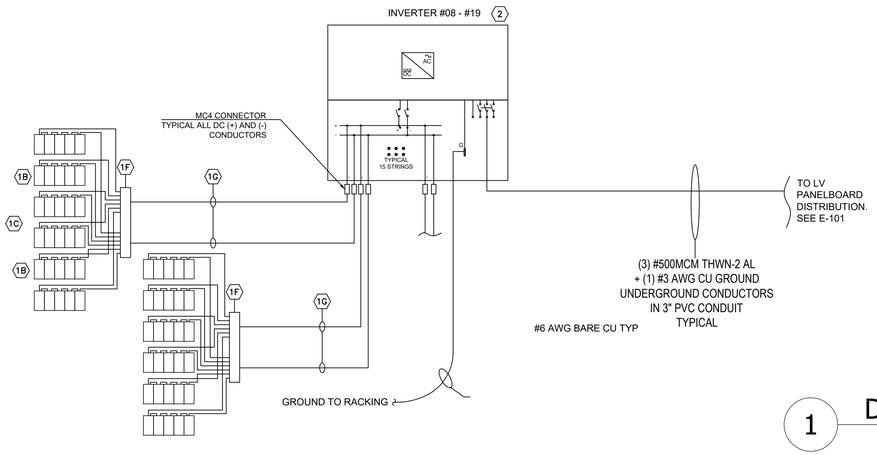
DC SYSTEM SIZE	2,656.08	kWp
AC SYSTEM SIZE	2,000.00	kW
DC/AC RATIO @POI	1.33	
DC SYSTEM VOLTAGE	1500	V
PCC/POI VOLTAGE	13.2000	kV
UTILITY	NATIONAL GRID	
MODULE (A) MAKE	HANWHA QCELL	
MODULE (A) MODEL	QCELL Q.PEAK DUO XL-G11S.3/BFG	
MODULE (A) RATING	585	Wp
MODULE (A) QTY	1,848	#
NO. OF STRINGS (A)	77	#
MODULE (A) PER STRING	24	#
MODULE (B) MAKE	FIRST SOLAR	
MODULE (B) MODEL	FS-7500A-TR1	
MODULE (B) RATING	500	Wp
MODULE (B) QTY	3,150	#
NO. OF STRINGS (B)	630	#
MODULE (B) PER STRING	5	#
INVERTER MAKE (A + B)	SOLIS	
INVERTER MODEL (A + B)	S6-GU250K-EHV-US-M12	
INVERTER RATING (A)	250	kVA
INVERTER QTY (A)	7	#
INVERTER RATING (B)	125	kVA
INVERTER QTY (B)	2	#

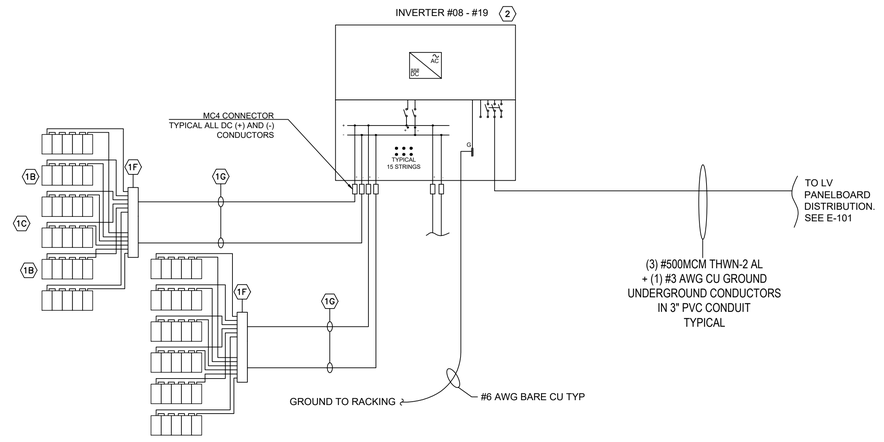
STRINGING TABLE

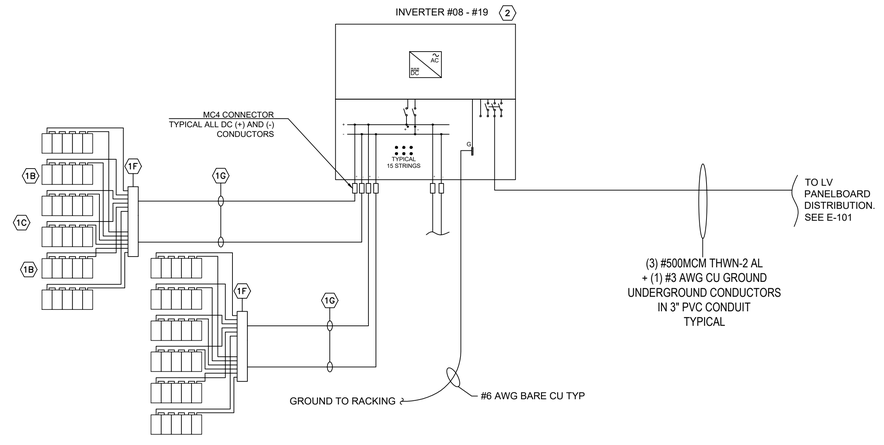
INVERTER NUMBER	STRINGING	MODULE RATING	INVERTER RATING
INVERTER 01	[24M x 22S]	585 W	250 kVA
INVERTER 02	[24M x 22S]	585 W	250 kVA
INVERTER 03	[24M x 22S]	585 W	250 kVA
INVERTER 04	[24M x 11S]	585 W	125 kVA
INVERTER 05	24 INPUTS OF [5M x 6S]	500 W	250 kVA
INVERTER 06	24 INPUTS OF [5M x 6S]	500 W	250 kVA
INVERTER 07	24 INPUTS OF [5M x 6S]	500 W	250 kVA
INVERTER 08	22 INPUTS OF [5M x 6S]	500 W	250 kVA
INVERTER 09	11 INPUTS OF [5M x 6S]	500 W	125 kVA











1 DC ONE LINE DIAGRAM

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SHEET TITLE:

DC SINGLE LINE DIAGRAM

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

0 ½" 1"

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APPROVED BY:	– – –

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PROJECT PHASE:

SCALE:

NTS

DRAWING NO.:

E-200

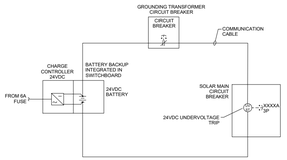
SYSTEM DESCRIPTION		
DC SYSTEM SIZE	2,656.08	kWp
AC SYSTEM SIZE	2,000.00	kW
DC/AC RATIO @POI	1.33	
DC SYSTEM VOLTAGE	1500	V
PCC/POI VOLTAGE	13.2000	kV
UTILITY	NATIONAL GRID	
MODULE (A) MAKE	HANWHA QCELL	
MODULE (A) MODEL	QCELL Q.PEAK DUO XL-G11S.3/BFG	
MODULE (A) RATING	585	Wp
MODULE (A) QTY	1,848	#
NO. OF STRINGS (A)	77	#
MODULE (A) PER STRING	24	#
MODULE (B) MAKE	FIRST SOLAR	
MODULE (B) MODEL	FS-7500A-TR1	
MODULE (B) RATING	500	Wp
MODULE (B) QTY	3,150	#
NO. OF STRINGS (B)	630	#
MODULE (B) PER STRING	5	#
INVERTER MAKE (A + B)	SOLIS	
INVERTER MODEL (A + B)	S6-GU250K-EHV-US-M12	
INVERTER RATING (A)	250	kVA
INVERTER QTY (A)	7	#
INVERTER RATING (B)	125	kVA
INVERTER QTY (B)	2	#

STRINGING TABLE			
INVERTER NUMBER	STRINGING	MODULE RATING	INVERTER RATING
INVERTER 01	[24M x 22S]	585 W	250 kVA
INVERTER 02	[24M x 22S]	585 W	250 kVA
INVERTER 03	[24M x 22S]	585 W	250 kVA
INVERTER 04	[24M x 11S]	585 W	125 kVA
INVERTER 05	24 INPUTS OF [5M x 6S]	500 W	250 kVA
INVERTER 06	24 INPUTS OF [5M x 6S]	500 W	250 kVA
INVERTER 07	24 INPUTS OF [5M x 6S]	500 W	250 kVA
INVERTER 08	22 INPUTS OF [5M x 6S]	500 W	250 kVA
INVERTER 09	11 INPUTS OF [5M x 6S]	500 W	125 kVA

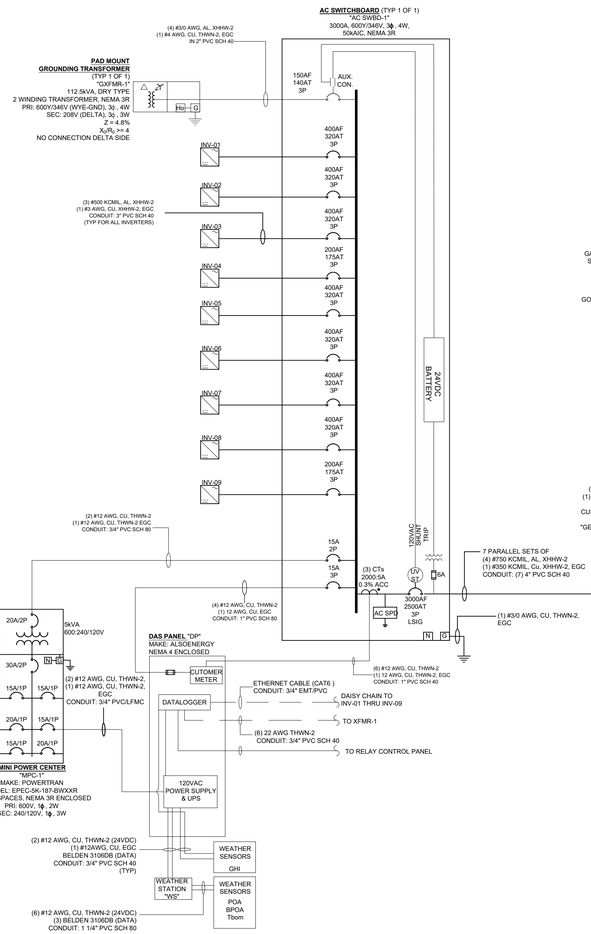
GENERAL NOTES:

1. ALL VALUES ARE SHOWN FOR STC UNLESS OTHERWISE NOTED.
2. ALL CIRCUIT BREAKERS SHALL BE SUITABLE FOR BACKFEED OPERATION.
3. LOW VOLTAGE AC WIRING SHALL BE ALUMINIUM , XHHW-2 IN PVC SCH 40 CONDUIT UNLESS OTHERWISE NOTED.
4. AC MV CIRCUITS SHALL BE INSTALLED AND INTERCONNECTED WITH UTILITY, PER UTILITY SPECIFICATIONS.
5. ALL ELECTRICAL WORK AND WIRE SIZING SHALL BE IN ACCORDANCE WITH THE 2023 EDITION OF NATIONAL ELECTRICAL CODE.
6. ALL DC AND AC EQUIPMENT, WHERE APPLICABLE, SHALL BE LISTED AND LABELED PER RECOGNIZED ELECTRICAL TESTING LABORATORY AND INSTALLED PER THE LISTING REQUIREMENTS, THE MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH NEC.
7. RECLOSER CONTROL SETTINGS TO BE COORDINATED WITH UTILITY AND CONTRACTOR.
8. UTILITY EQUIPMENT IS FOR INFORMATION PURPOSE ONLY, IS NOT FOR CONSTRUCTION, AND MAY BE CHANGE BY THE UTILITY AT ANY TIME IN THE FUTURE.
9. ALL CONDUCTORS TO BE RATED FOR 90° C.
10. BREAKER TERMINALS SHALL BE 75°C RATED.
11. ALL BREAKERS IN THE AC SWITCHBOARD SHALL BE SERIES-RATED.
12. LAST DEVICE IN DAISY CHAIN WITH EOL RESISTOR PER MONITORING & INVERTER INSTRUCTIONS.
13. INSTALL WIRES WITH S-CURVE OR LOOP TO ALLOW SLACK FOR TENSION RELIEF.
14. SWITCH TO LFMC FOR FINAL 24" AT CONNECTION TO INVERTER.
15. FOLLOW MANUFACTURER'S SUGGESTED INSTALLATION PRACTICES.
16. INSTALL ARC FLASH LABELS AS REQUIRED PER NFPA 70E STANDARDS.
17. SIEMENS 3VA6440-8HL31-2AA0 WITH LS/I IS CONSIDERED. 400A BREAKER DERATED TO 320A.
18. ALL GROUND BARS AND LUGS SHALL BE DUAL RATED AL/CU.
19. PVC SCH80 REQUIRED WHERE PVC IS SPECIFIED. PVC SCH40 IS PERMITTED FOR UNDERGROUND STRAIGHT RUNS ONLY.

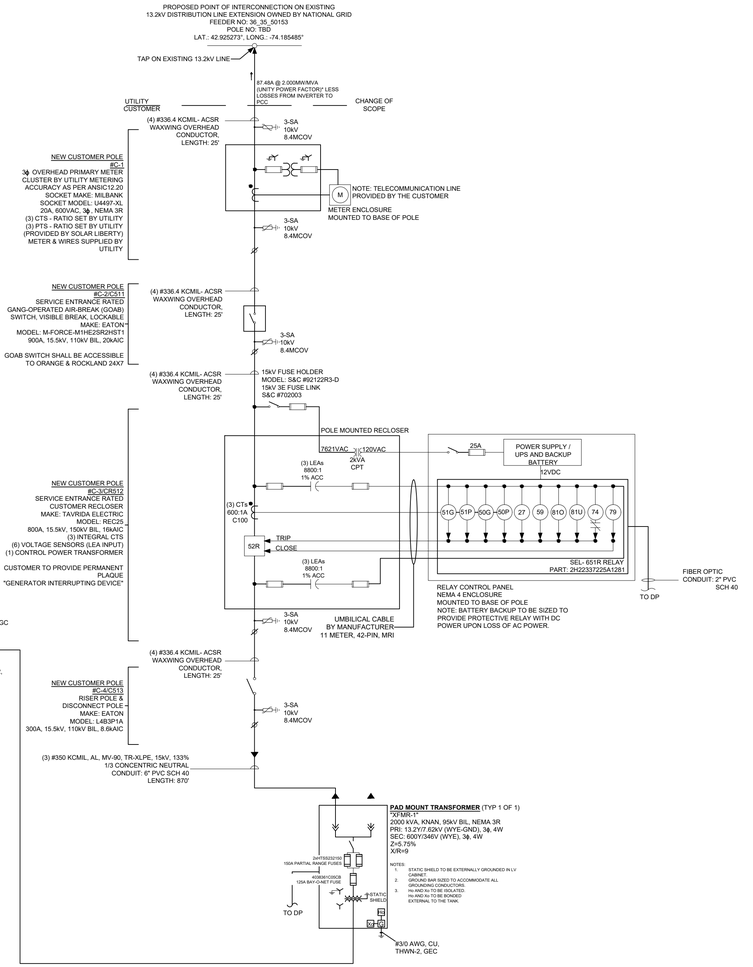
INVERTER SETTINGS - UL 1741-SB COMPLIANT				
ANSI	PICKUP (%)	PICKUP (ACTUAL)	TOTAL CLEARING TIME	
	TRIP LEVEL (96)		CYCLES	SECONDS
27-1	≤ 50% OF NOMINAL	300V	66	1.10
27-2	50% < V ≤ 88%	528V	180	3.0
59-1	110% ≤ V < 120%	660V	120	2.0
59-2	120% OF NOMINAL ≤ V	720V	9.6	0.16
	FREQUENCY		CYCLES	SECONDS
81O-1	≥ 62.0 Hz	62.0 Hz	9.6	0.16
81O-2	≥ 61.2 Hz ≤ 62.0 Hz	61.2 Hz	18000	300
81U-1	≤ 58.5 Hz	58.5 Hz	18000	300
81U-2	≤ 56.5 Hz	56.5 Hz	9.6	0.16
INVERTER INTERNAL OPERATION SETTINGS				
PF SET POINT	1			
RAMP RATE	2%/SEC			



A E-201 TYPICAL TRIP SCHEME
SCALE:-NTS



1 ONE LINE DIAGRAM - MAIN INTERCONNECTION



B E-201 AC SINGLE LINE DIAGRAM
SCALE:-NTS

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SHEET TITLE:

AC SINGLE LINE DIAGRAM

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

0 ½" 1"

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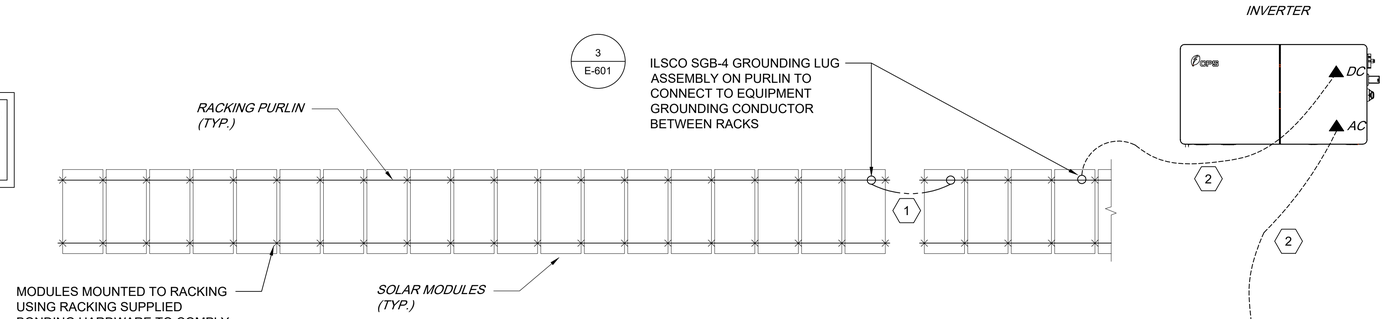
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PROJECT PHASE:

SCALE:
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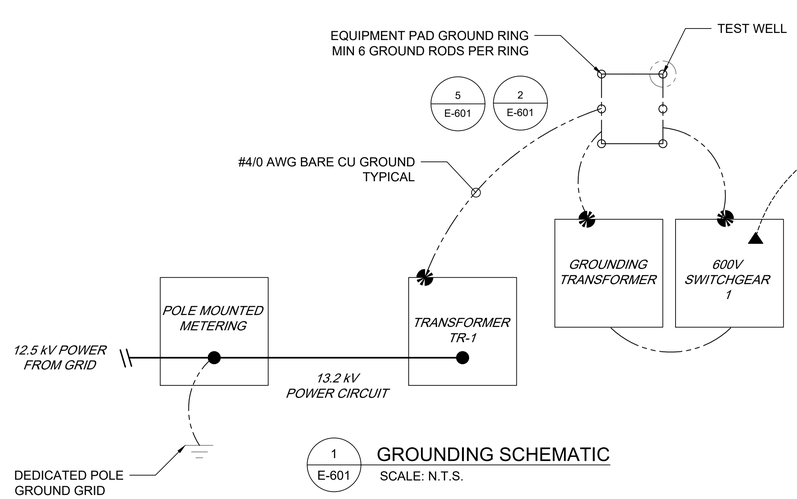
DRAWING NO.:
E-201

PROVIDE EQUIPMENT GROUNDING CONDUCTOR BETWEEN PV ARRAY AND OTHER EQUIPMENT IN ACCORDANCE WITH NEC 250.110



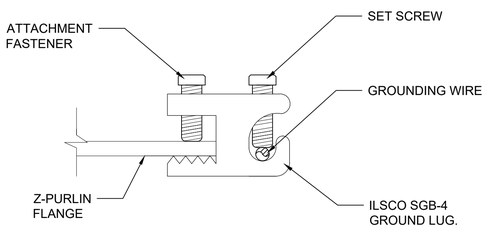
KEYED NOTES (1, 2, 3)

1. BARE STRANDED #6 AWG CU CABLE
2. #6 AWG CU THWN-2 GREEN INSULATED



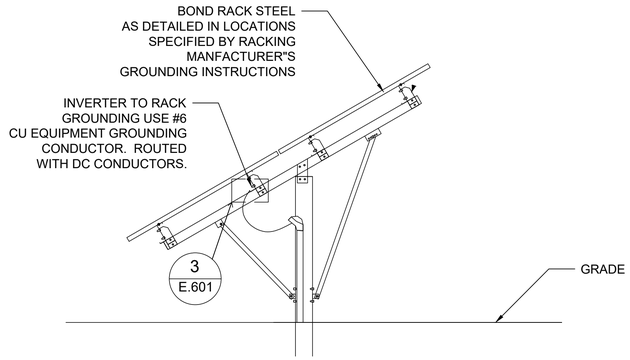
1 E-601 GROUNDING SCHEMATIC
SCALE: N.T.S.

2 E-601 GROUND ROD DETAIL
SCALE: N.T.S.

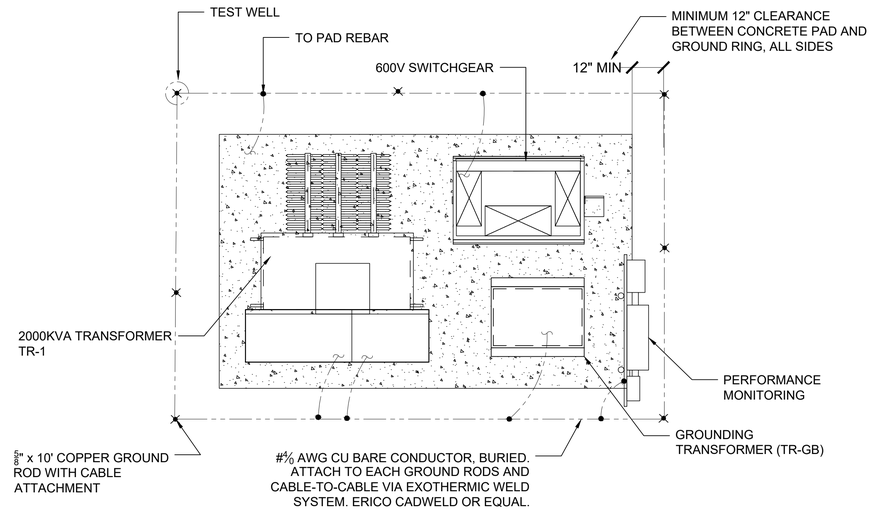


PER RACKING REQUIREMENTS, TORQUE ATTACHMENT FASTENER TO 75 IN LB, SET SCREW TO 35 IN LB

3 E-601 GROUNDING LUG DETAIL
SCALE: N.T.S.



4 E-601 RACK GROUNDING DETAIL
SCALE: N.T.S.



5 E-601 EQUIPMENT PAD GROUNDING GRID
SCALE: N.T.S.

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BUFFALO, NY 14211
716-634-3780

SOLAR ELECTRIC SYSTEM CLIENT:
SEP AMSTERDAM

1225 NY-5S
AMSTERDAM, NY 12010

SHEET TITLE:

ELECTRICAL DETAILS - 1

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

0 ½" 1"

STAMP:

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DATE:	08/06/2026
DRAWN BY:	MC
ENGINEER:	EV
APPROVED BY:	---

NO.	REVISION	DATE
0	PERMITTING SET	12/13/23
1	UPDATED PERMIT SET	05/26/26
2	REVISED PERMIT SET	07/23/26
3	UPDATED PERMIT SET	08/06/26

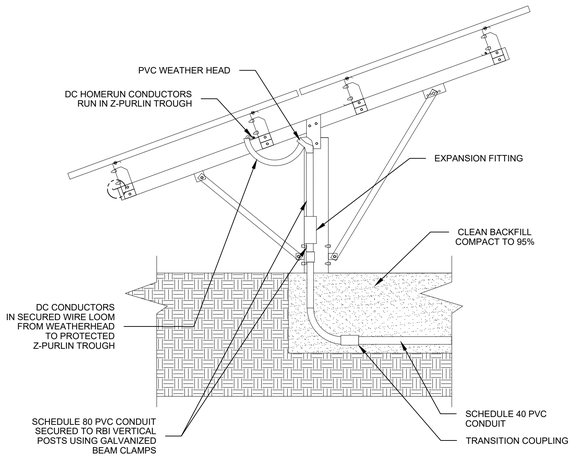
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SCALE:

N.T.S.

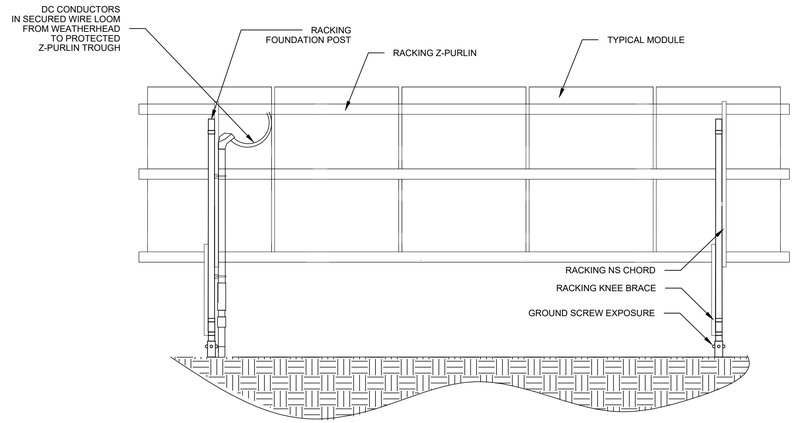
DRAWING NO.:

E-601



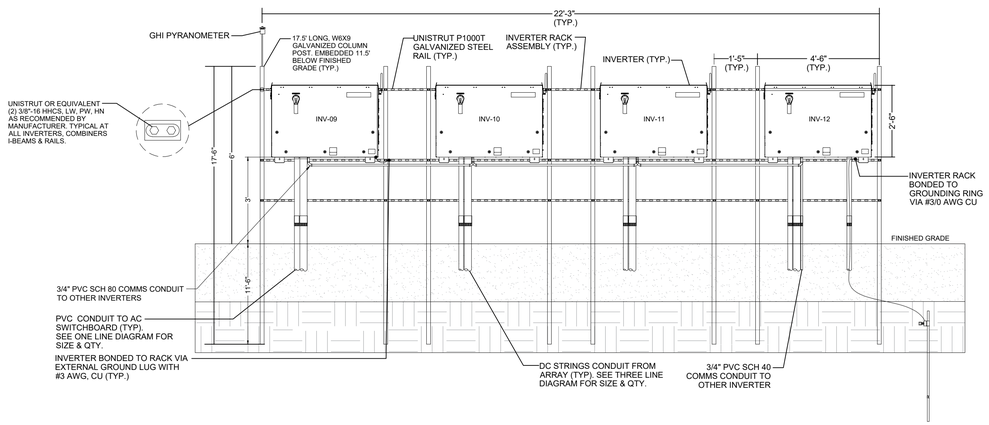
1 E-602 TYPICAL MODULE RACK ELEVATION - SIDE VIEW

SCALE: N.T.S.



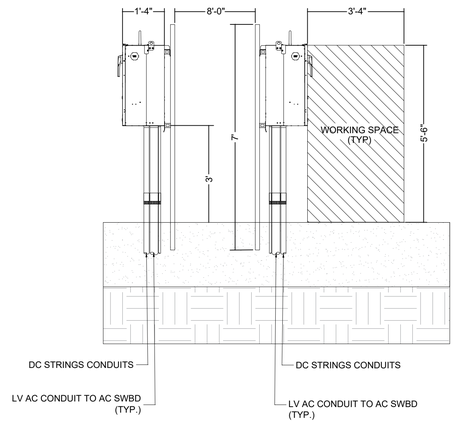
2 E-602 TYPICAL MODULE RACK ELEVATION - BACK OF RACK

SCALE: N.T.S.



3 E-602 TYPICAL INVERTERRACK ELEVATION - FRONT VIEW

SCALE: N.T.S.



4 E-602 TYPICAL INVERTERRACK ELEVATION - SIDE VIEW

SCALE: N.T.S.

NOTES:

1. REFER TO EQUIPMENT INSTALLATION MANUALS FOR INSTALLATION DETAILS.
2. EQUIPMENT DIMENSIONS MAY SUBJECT TO CHANGE AFTER PROCUREMENT OF ACTUAL PRODUCT.
3. PAD DIMENSION MAY VARY AFTER PROCUREMENT OF ACTUAL PRODUCT.
4. ELECTRICAL EQUIPMENT LOCATED OUTSIDE MUST NOT HAVE CONDUITS PENETRATING ON TOP OF EQUIPMENT.
5. CONDUITS SHALL NOT PROTRUDE MORE THAN 6" INTO WORKING SPACE OF EQUIPMENT.
6. FEEDER BENDING RADIUS SHALL BE AT LEAST 8 TIMES THAT OF THE CONDUCTOR DIAMETER FOR NON-SHIELDED CONDUCTORS OR 12 TIMES THAT OF THE CONDUCTOR RADIUS FOR SHIELDED CONDUCTORS AS PER NEC GUIDELINES.

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SHEET TITLE:

ELECTRICAL DETAILS - 2

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

0 ½" 1"

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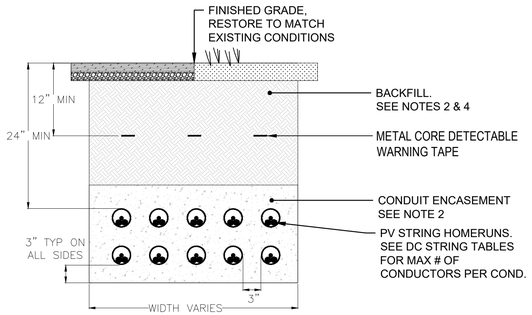
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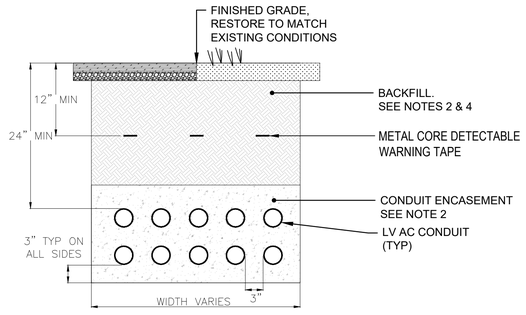
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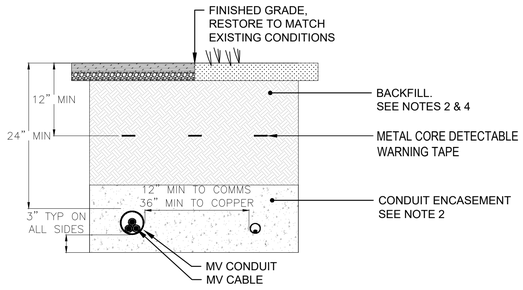
E-602



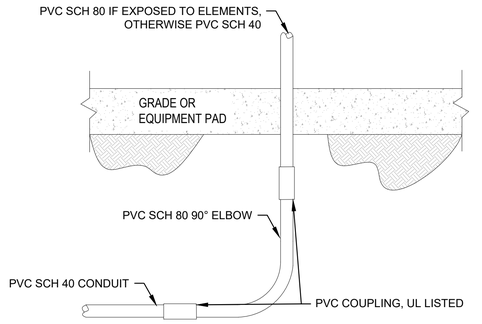
1 E-603 TYPICAL DC DUCTBANK
SCALE: N.T.S.



2 E-603 TYPICAL AC DUCTBANK
SCALE: N.T.S.



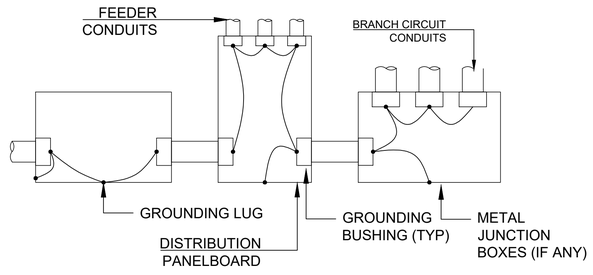
3 E-603 TYPICAL MV DUCTBANK
SCALE: N.T.S.



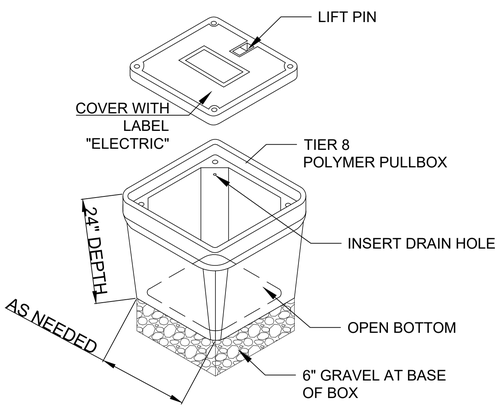
4 E-603 UNDERGROUND CONDUIT TRANSITION DETAIL
SCALE: N.T.S.

NOTES (DETAILS 1 - 3):

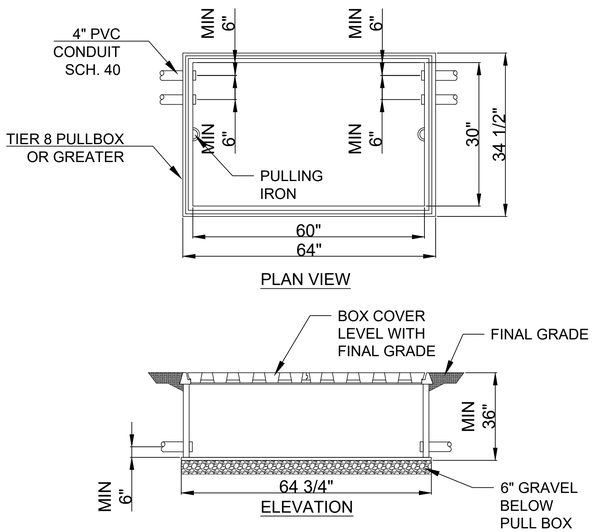
1. MIN 6" TOPSOIL, SEED, AND MULCH IN LAWN AREAS.
2. UNDER ROADS AND PARKING AREAS ENCASEMENT SHALL BE 2500 PSI CONCRETE. UNDER GRASSY AREAS NOT SUBJECT TO VEHICULAR TRAFFIC ENCASEMENT SHALL BE SAND.
3. USE SATISFACTORY EXCAVATED MATERIAL. NO ROCKS OR SHARP EDGES, NO CLODS GREATER THAN ½".
4. PROVIDE TEMPORARY SHORING AS REQUIRED UNDER OSHA REGULATIONS.
5. COMPACT FILL AND BACKFILL TO 95% OF MAXIMUM DENSITY
6. IF DUCTBANK SLOPED SUCH THAT ANY PART OF THE DUCTBANK IS ABOVE STUB UP ELEVATION, INCLUDE HAND HOLE WITH GRAVEL BASE TO ALLOW DRAINAGE AT LOWEST ELEVATION..
7. INSTALL DETECTABLE WARNING TAPE AFTER FIRST COMPACTED LIFT OF SELECT FILL
8. ALL TRENCHES SHALL BE ROUTED AS DEPICTED AND SHALL NOT PASS UNDERNEATH THE ARRAY, EXCEPT BETWEEN ROWS.
9. ALL MEDIUM VOLTAGE BEND RADII TO BE 36" MINIMUM.
10. CALL BEFORE YOU DIG, DIAL 811 TO BE CONNECTED TO LOCAL ON-CALL CENTER. CALL AT LEAST 48 HOURS BEFORE EXCAVATING.
11. CONTRACTOR SHALL PERFORM A DC HIPOT TEST AFTER CABLES ARE TERMINATED ON SITE. VOLTAGE APPLIED AND DURATION OF THE TEST SHALL BE IN ACCORDANCE WITH THE CABLE MANUFACTURER'S FIELD HIPOT TEST RECOMMENDATIONS. TEST RESULTS FOR EACH CABLE SHALL BE SUBMITTED TO OWNER ENGINEERING FOR APPROVAL.



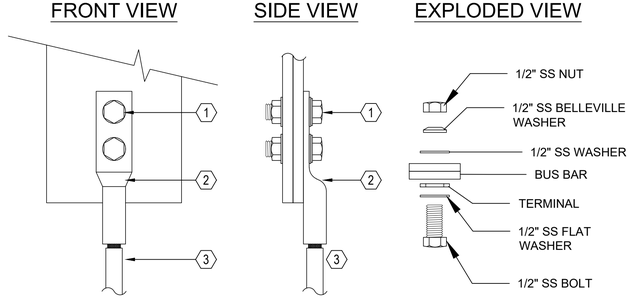
7 E-603 TYPICAL METAL CONDUIT GROUNDING DETAIL
SCALE: N.T.S.



5 E-603 UNDERGROUND PULLBOX DETAIL
SCALE: N.T.S.



6 E-603 MEDIUM VOLTAGE U.G. PULL BOX - STRAIGHT TYPE
SCALE: N.T.S.



NOTES: (#)

1. USE EXISTING HOLES IN BUS (NO DRILLING OF EXISTING BUS WITHOUT APPROVAL). BOLTS USED SHALL BE COMPATIBLE WITH EXISTING HOLES (STAINLESS STEEL FASTENERS ONLY). COAT BOLT THREADS WITH ANTI-SEIZE COMPOUND AND TORQUE TO MANUFACTURER'S SPECIFICATIONS.
2. TERMINAL SHALL BE TWO HOLE LONG BARREL TYPE COMPATIBLE WITH BUSSING AND CONDUCTOR MATERIALS
3. UL LISTED CRIMP RATED FOR 600 VOLTS. USE MANUFACTURER'S APPROVED CRIMPING DEVICE ONLY, AND CRIMP PER MANUFACTURER'S INSTRUCTIONS. USE 12" LENGTH OF COLD SHRINK TO COVER THE CONNECTION BETWEEN CRIMP AND CONDUCTOR BEGINNING AT THE STRAIGHT SECTION OF THE CRIMP.

8 E-603 TYPICAL BUS CONNECTION DETAIL
SCALE: N.T.S.

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SHEET TITLE:
ELECTRICAL DETAILS - 3

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

0 ½" 1"

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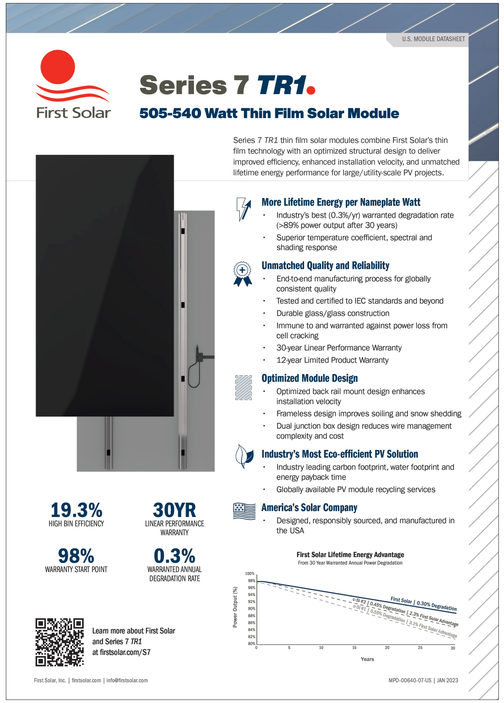
PROJECT PHASE:

SCALE:
N.T.S.

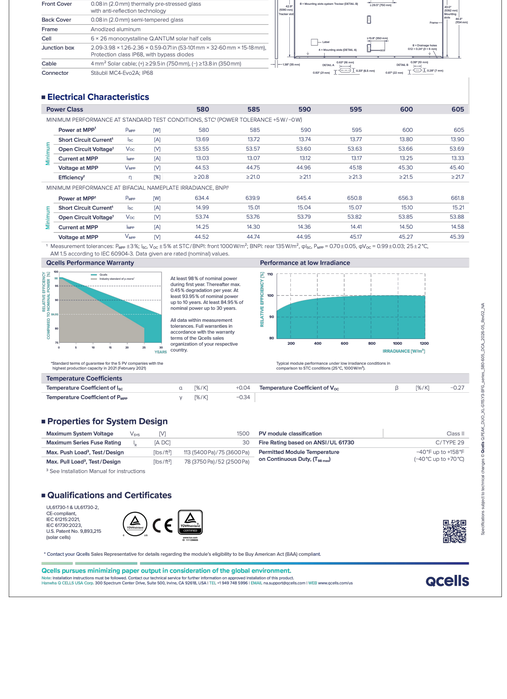
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E-603

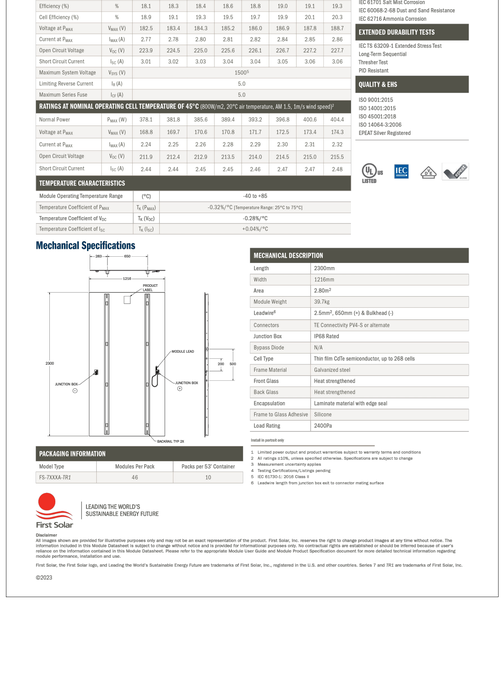












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SHEET TITLE:
EQUIPMENT SPECIFICATION

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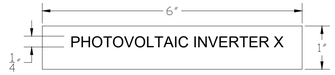
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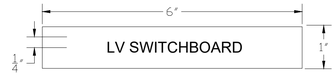
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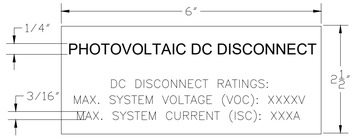
DRAWING NO.:
E-800



1 E-900 (N.T.S.) INVERTER LABEL



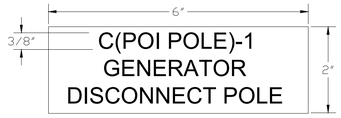
4 E-900 (N.T.S.) COM. PANEL LABEL



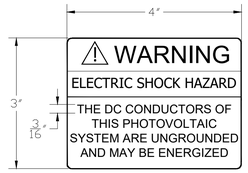
7 E-900 (N.T.S.) DC DISCONNECT LABEL



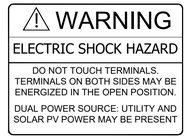
10 E-900 (N.T.S.) AVAILABLE FAULT CURRENT LABEL



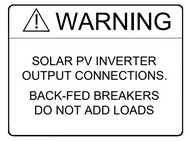
11A E-900 (N.T.S.) POLE LINEUP LABEL



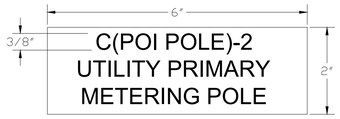
2 E-900 (N.T.S.) HAZARD LABEL 1



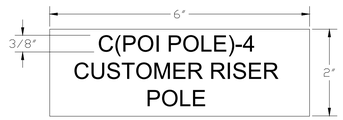
5 E-900 (N.T.S.) HAZARD LABEL 2



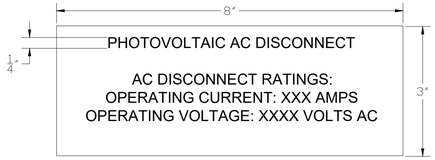
8 E-900 (N.T.S.) HAZARD LABEL 3



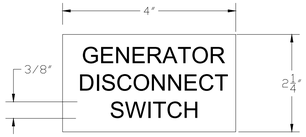
11B E-900 (N.T.S.) POLE LINEUP LABEL



11D E-900 (N.T.S.) POLE LINEUP LABEL



3 E-900 (N.T.S.) AC DISCONNECT LABEL

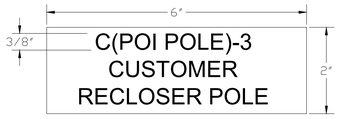


PLACE LABEL W PROMINENTLY AT TOP OF AC DISCONNECT SWITCH. ALL OTHER LABELS BELOW

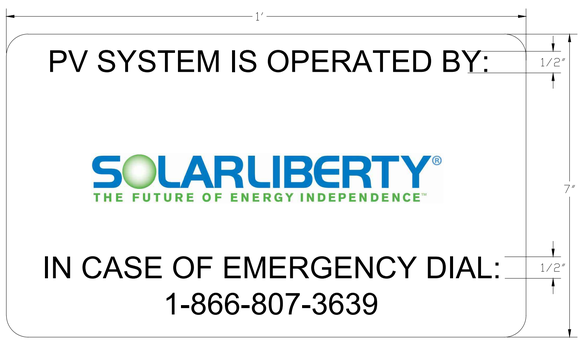
6 E-900 (N.T.S.) UTILITY GEN. DISCO LABEL



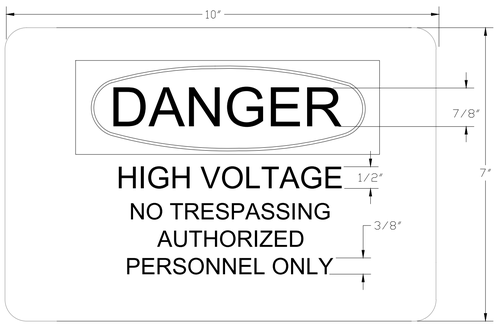
9 E-900 (N.T.S.) PV RACEWAY LABEL



11C E-900 (N.T.S.) POLE LINEUP LABEL



14 E-900 (N.T.S.) PV SYSTEM OWNER/OPERATOR LABEL



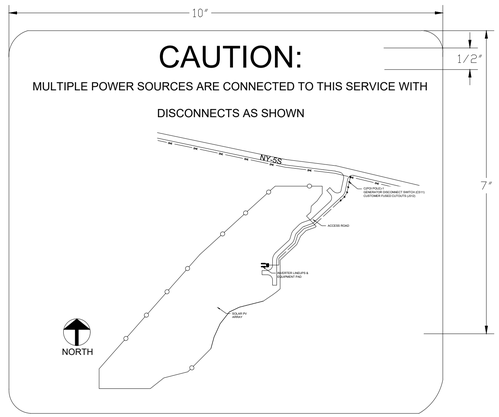
15 E-900 (N.T.S.) FENCE SAFETY LABEL

LABEL AND MARKINGS LEGEND

1. IDENTIFIES PHOTOVOLTAIC INVERTERS. PROVIDE 1 LABEL PER INVERTER.
2. WARNS OF UNGROUNDED, POTENTIALLY ENERGIZED CIRCUITS. 1 LABEL TO BE APPLIED AT EVERY INVERTER AND 1 LABEL APPLIED AT EACH DC JUNCTION BOX.
3. UTILITY DISCONNECT WARNING LABEL WITH SYSTEM SPECIFICATIONS. APPLIED TO ALL AC PHOTOVOLTAIC DISCONNECTS, 1 PER AC DISCONNECT.
4. IDENTIFIES PHOTOVOLTAIC COMBINING PANELBOARD. PROVIDE 1 LABEL PER SWITCHBOARD.
5. WARNING LABEL, PLACE ONE ON EACH OF: AC PHOTOVOLTAIC DISCONNECT, AC COMBINING PANELBOARD, EACH PHOTOVOLTAIC INVERTER.
6. LABEL FOR UTILITY DISCONNECT. ONE LABEL PER PHOTOVOLTAIC ARRAY. APPLY TO AC PHOTOVOLTAIC DISCONNECT. PLACE LABEL PROMINENTLY AT TOP OF AC DISCONNECT SWITCH. ALL OTHER LABELS BELOW.
7. PHOTOVOLTAIC DC DISCONNECT OPERATING SPECIFICATIONS LABEL. APPLIED TO EACH PHOTOVOLTAIC INVERTER. LABEL VALUES TO BE CALCULATED BY ENGINEER
8. WARNING LABEL, PLACE ONE ON EACH AC COMBINING SWITCHBOARD.
9. WARNING LABEL, PLACE AS NEEDED ON: EXPOSED RACEWAYS, CABLE TRAYS, AND OTHER WIRING METHODS. COVERS OR ENCLOSURES OF PULL BOXES OR JUNCTION BOXES.
10. AVAILABLE FAULT CURRENT LABEL: PLACE AT LOW VOLTAGE SWITCHBOARD
11. POLE LINEUP LABELS. PLACE PER THREE LINE DIAGRAM AND UTILITY REQUIREMENTS. ITEMS 11A - 11F TO BE PLACED ON POWER POLES.
12. RESERVED
13. LABEL FOR SYSTEM OWNER'S INSTRUMENT TRANSFORMERS LOCATED IN METAL ENCLOSED SWITCHGEAR. METER TO BE PLACED EITHER ON UNIT OR ON RACK FED FROM CABINET
14. LABEL FOR MAIN SERVICE ENTRANCE. PLACE AT EVERY VEHICLE GATE ACCESS TO ARRAY.
15. LABEL FOR CHAIN LINKED SECURITY FENCE. PLACE EVERY 200FT AROUND PERIMETER OF ARRAY

GENERAL NOTES FOR LABELS AND MARKINGS

1. LABELS AND MARKINGS SHALL BE APPLIED TO THE APPROPRIATE COMPONENTS IN ACCORDANCE WITH THE NEC.
2. SOLAR MODULES ARE SUPPLIED FROM THE MANUFACTURER WITH MARKING PRE-APPLIED TO MEET THE REQUIREMENTS OF THE NEC.
3. THE SOLAR INVERTERS ARE SUPPLIED FROM THE MANUFACTURER WITH THE APPROPRIATE LABELS AND MARKINGS TO MEET THE REQUIREMENTS OF THE NEC.
4. TEXT LABELS THAT ARE NOT STICKERS WILL BE ETCHED WITH WHITE GRAPHICS ONTO 1/16" RED PLASTIC PLACARDS. THE LABEL WILL BE ATTACHED TO THE APPROPRIATE COMPONENTS ENCLOSURES IN CONSPICUOUS PLACES USING TWO PART EPOXY.



16 E-900 (N.T.S.) PV DIRECTORY LABEL

WHITMAN
Environmental • Engineering • Energy
Waste Management • EH&S Services
100 Franklin Square Drive, Suite 200
Somerset, NJ 08873
TEL: (732) 390-5858
FAX: (732) 390-9496

SOLARLIBERTY
THE FUTURE OF ENERGY INDEPENDENCE
SOLAR LIBERTY ENERGY SYSTEMS, INC.
6500 SHERIDAN DR.
BUFFALO, NY 14211
716-634-3780

SOLAR ELECTRIC SYSTEM CLIENT:
SEP AMSTERDAM

1225 NY-5S
AMSTERDAM, NY 12010

SHEET TITLE:
LABELS & MARKINGS

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

0 ½" 1"

STAMP:

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DATE:	08/06/2026
DRAWN BY:	MC
ENGINEER:	EV
APPROVED BY:	---

NO.	REVISION	DATE
0	PERMITTING SET	12/13/23
1	UPDATED PERMIT SET	05/26/26
2	REVISED PERMIT SET	07/23/26
3	UPDATED PERMIT SET	08/06/26

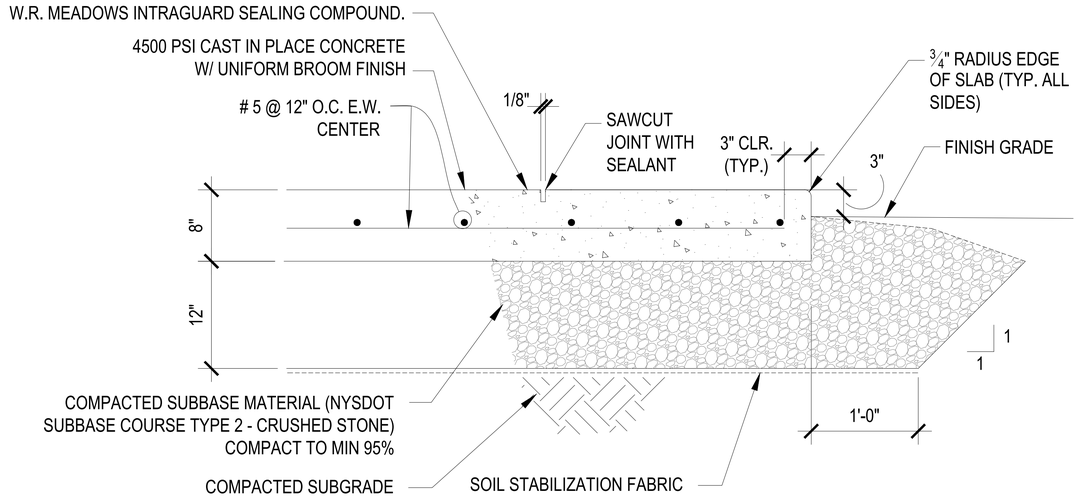
PROJECT PHASE:

SCALE:
N.T.S

DRAWING NO.:
E-900

GENERAL NOTES

A. ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF ALL BUILDING CODES AND ORDINANCES INCLUDING THE BUILDING CODE OF NEW YORK STATE .IN CASES OF CONFLICT, THE MOST STRINGENT SHALL GOVERN.
B. SLAB CONSTRUCTION SHALL BE CARRIED DOWN TO UNDISTURBED NATURAL SUBGRADE MATERIAL HAVING A MINIMUM NET ALLOWABLE BEARING CAPACITY OF 1500 PSF. ALL EXCAVATION, SUB-GRADE PREPARATION, PLACEMENT OF FILL, IF ANY, AND DENSIFICATION SHALL BE PERFORMED BY PERSONS EXPERIENCED IN THE TRADE THEY ARE PERFORMING.
C. NO SLAB ON GRADE CONSTRUCTION SHALL BE PLACED IN WATER OR ON OR AGAINST FROZEN GROUND.
D. CONCRETE MATERIALS AND CONSTRUCTION SHALL CONFORM TO ACI-318 & ACI-301, LATEST EDITIONS. CONTRACTOR IS RESPONSIBLE TO CONFORM TO ACI-318 FOR COLD OR HOT WEATHER CONCRETING REQUIREMENTS.
E. CONCRETE SHALL HAVE A 28-DAY MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI. THE PROPERTIES OF THE CONCRETE MIXTURE SHALL CONSISTS OF A MAXIMUM WATER/CEMENT RATIO OF 0.45 & A MAXIMUM AIR CONTENT OF 6% +/- 1.5% WITH A NOMINAL MAXIMUM AGGREGATE SIZE OF 1".
F. CONCRETE PLACEMENT SHALL BE DONE IN A SINGLE CONTINUOUS POUR.
G. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60.
H. REINFORCEMENT SHALL BE LAPPED WITH A MIN 30" LAP SPLICE.
I. SOIL STABILIZATION FABRIC SHALL BE A WOVEN GEOTEXTILE FABRIC, MANUFACTURED FOR SEPARATION APPLICATIONS, MADE FROM POLYOLEFINS OR POLYESTERS; WITH ELONGATION LESS THAN 50%; COMPLYING WITH AASHTO M 288 AND MAXIMUM OPENING SIZE OF NO. 60 SIEVE PER ASTM D 4751.
J. THE DEPTHS AND LOCATIONS OF EXISTING UTILITIES ARE NOT KNOWN. NOTIFY UTILITY COMPANIES AND UNDERGROUND UTILITY LOCATING SERVICES. ACTUAL LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. CONTRACTOR SHALL USE ALL MEANS POSSIBLE, INCLUDING METAL DETECTORS, ELECTRONIC SENSORS, PRODDING AND HAND EXCAVATION TO AVOID DISTURBING EXISTING BURIED UTILITIES. REPAIR UTILITIES DAMAGED BY CONSTRUCTION.



CONTROL JOINT NOTES:

1. DEPTH OF JOINTS TO BE 1½".
2. JOINTS TO BE PROVIDED AT MAXIMUM DISTANCE BETWEEN JOINTS OF 24 TO 36 TIMES THE SLAB THICKNESS.
3. LENGTH TO WIDTH RATIO OF JOINTS NOT TO EXCEED 1.5 TO 1.0.

1 / S-100 EQUIPMENT PAD FOOTING AND SLAB DETAIL

SCALE = 1-1/2" = 1'-0"

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Environmental • Engineering • Energy
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100 Franklin Square Drive, Suite 200
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BUFFALO, NY 14211
716-634-3780

SOLAR ELECTRIC SYSTEM CLIENT:
SEP AMSTERDAM

1225 NY-5S
AMSTERDAM, NY 12010

SHEET TITLE:

CONCRETE PAD DETAILS

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

0 ½" 1"

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DRAWN BY:	MC
ENGINEER:	EV
APPROVED BY:	-- -- --

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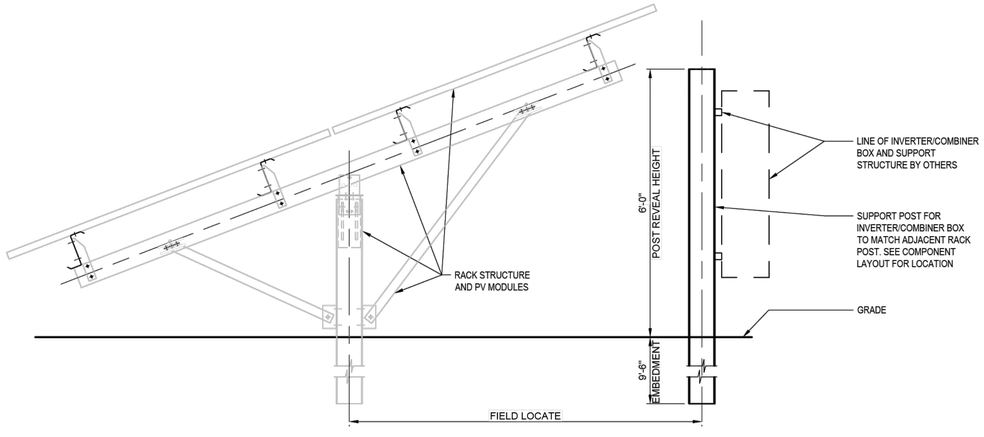
PROJECT PHASE:

SCALE:

N.T.S.

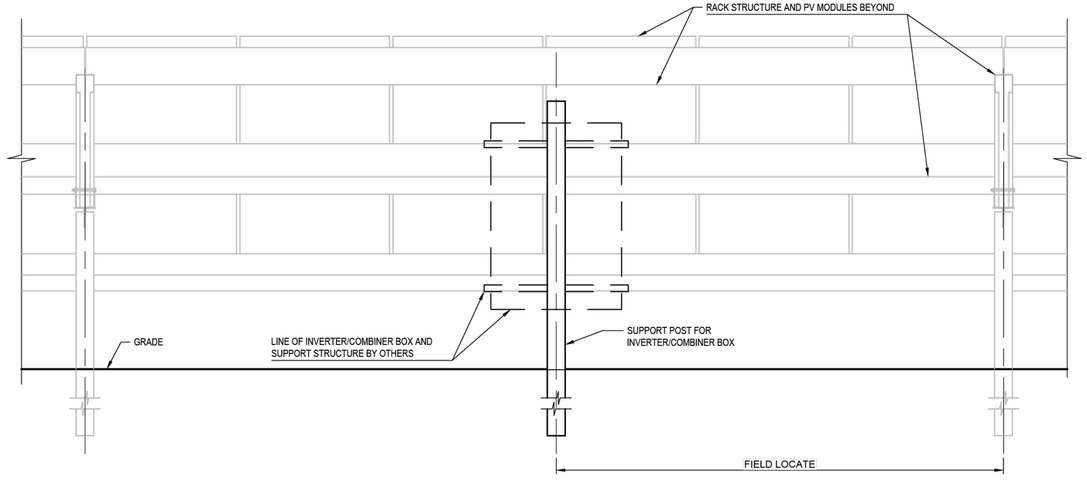
DRAWING NO.:

S-100



SIDE VIEW

NOTE:
RACK STRUCTURE AND PV MODULES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL COMPONENTS MAY VARY.



REAR VIEW

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Waste Management • EH&S Services
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AMSTERDAM, NY 12010

SHEET TITLE:

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APPROVED BY:	-- --

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3	UPDATED PERMIT SET	08/06/26

PROJECT PHASE:

SCALE:

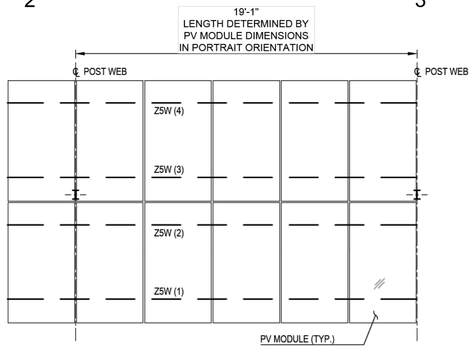
N.T.S.

DRAWING NO.:

S-200

NOT USED

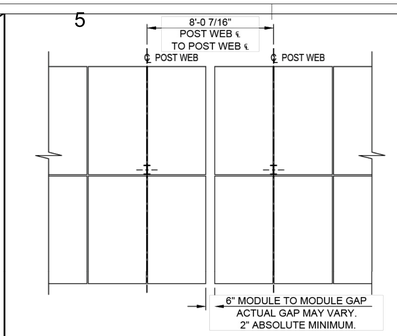
G1 SCALE: 1/4" = 1'-0"
- BAY PLAN VIEW



G3 SCALE: 1/4" = 1'-0"
5WP2 BAY PLAN VIEW

NOT USED

G6 SCALE: 1/4" = 1'-0"
- BAY PLAN VIEW

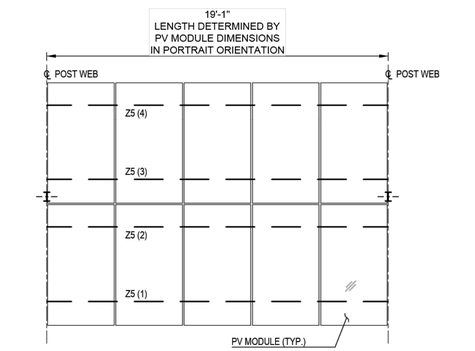


NOTE: COMPONENTS SHOWN MAY VARY FROM ACTUAL CONFIGURATION.
SEE INDIVIDUAL BAY PLANS THIS SHEET FOR MORE DETAILED PLANS.
INSTALL EXTENDED POST TOP ASSEMBLY AT EITHER SIDE OF ROW BREAK PER DETAIL A1/SG501.

G9 SCALE: NONE
TYPICAL ROW BREAK DETAIL

NOT USED

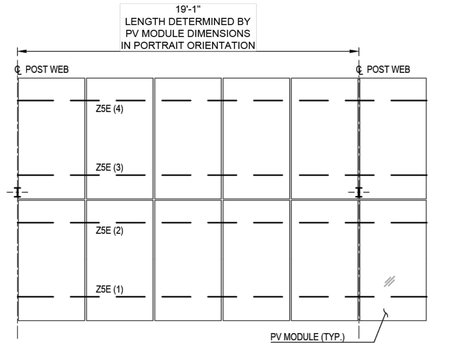
E1 SCALE: 1/4" = 1'-0"
- BAY PLAN VIEW



E3 SCALE: 1/4" = 1'-0"
5P2 BAY PLAN VIEW

NOT USED

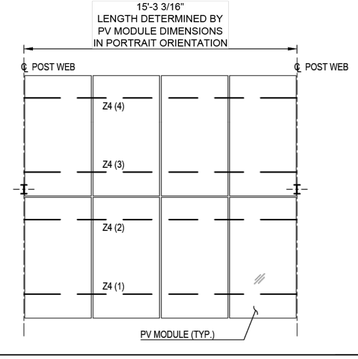
C1 SCALE: 1/4" = 1'-0"
- BAY PLAN VIEW



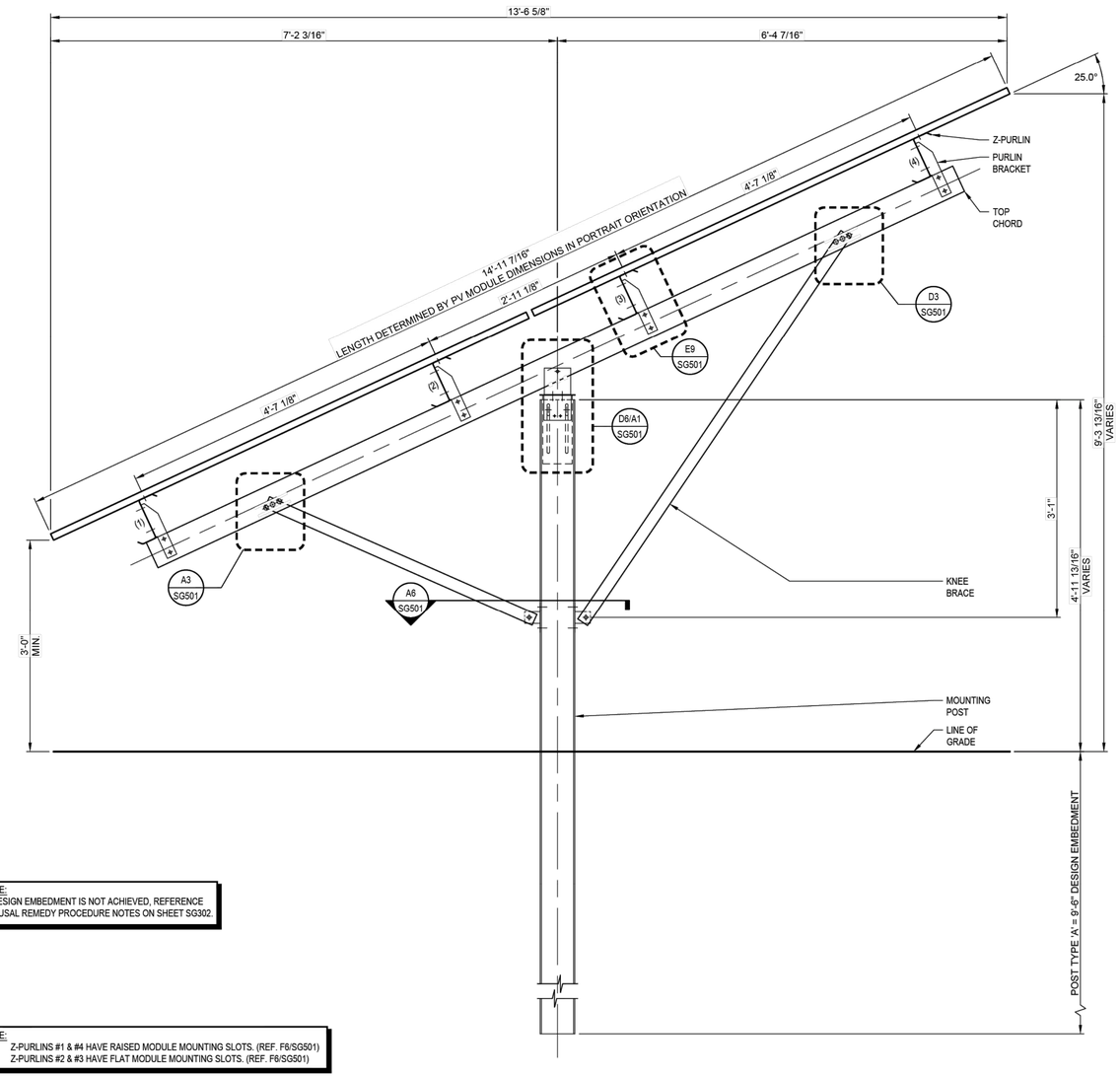
C3 SCALE: 1/4" = 1'-0"
5EP2 BAY PLAN VIEW

NOT USED

A1 SCALE: 1/4" = 1'-0"
- BAY PLAN VIEW



A3 SCALE: 1/4" = 1'-0"
4P2 BAY PLAN VIEW



NOTE:
IF DESIGN EMBEDMENT IS NOT ACHIEVED, REFERENCE REFUSAL REMEDY PROCEDURE NOTES ON SHEET SG302.

NOTE:
1. Z-PURLINS #1 & #4 HAVE RAISED MODULE MOUNTING SLOTS. (REF. F6/SG501)
2. Z-PURLINS #2 & #3 HAVE FLAT MODULE MOUNTING SLOTS. (REF. F6/SG501)

A6 SCALE: 1" = 1'-0"
DESIGN RACK SECTION

WHITMAN
Environmental • Engineering • Energy
Waste Management • EH&S Services
100 Franklin Square Drive, Suite 200
Somerset, NJ 08873
TEL: (732) 390-5858
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SHEET TITLE:
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DATE: 08/06/2026
DRAWN BY: MC
ENGINEER: EV
APPROVED BY: -- --

NO.	REVISION	DATE
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PROJECT PHASE:

SCALE:
N.T.S.

DRAWING NO.:
S-201



PRELIMINARY
NOT FOR CONSTRUCTION

SYMBOL LEGEND

	Tree to remove/ Area of Trees to be removed
	Deciduous tree to remain
	Evergreen tree to remain
	Existing Vegetation to Remain
662	Existing Contour
	Property Line
	Proposed Deciduous Shade Tree
	Proposed Evergreen Tree
	Proposed Deciduous Understory Tree
	Proposed Small Flowering Tree or Large Shrub, with 3 or small stems.
1 Gvi	Plant Symbol, see Plant List
	Wetlands
	Stream
	Fence

SYMBOL LEGEND

SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE/ROOT	
TREES					
Aru		Acer rubrum	Red Maple		
Car		Carpinus caroliniana	American Hophornbeam		
Cca		Cercis canadensis	Eastern Redbud		
Jvi		Juniperus virginiana	Eastern Red Cedar		
Ovi		Ostrya virginiana	American Hornbeam		
Pst		Pinus strobus	Eastern White Pine		
Qmo		Quercus montana	Chestnut Oak		
Qpa		Quercus palustris	Pin Oak		
TpG		Thuja plicata 'Green Giant'	Green Giant Arborvitae		

0 10' 20'

GENERAL NOTES

1. This drawing is based upon a site plan provided by Whitman Engineering dated August 4th, 2026 and a boundary and partial topographic survey provided by Passero Associates dated February 2024.
2. Owner to obtain all permits before building.
3. Strip topsoil in pavement areas and stockpile for future use.
4. Contractor must call "Before you Dig" and have all underground utilities located before commencing excavation work.

Date:
August 6, 2026

REVISIONS

No.	Date	Description

SEP AMSTERDAM
1225 NY-5S
AMSTERDAM, NEW YORK

PRELIMINARY LANDSCAPE MASTER PLAN

KALA
KAREN ARENT LANDSCAPE ARCHITECT
12 OLD MINISINK TRAIL • GOSHEN, NEW YORK 10924
845 294 9958 phone • 845 294 6545 fax

New York License #

Unauthorized alteration or addition to this drawing is a violation of Section 7209 (2) of the New York State Education Law

Drawn By: KA | Checked By: XX | Scale: 1"=10'-0"

L1
1 of 1

Exhibit 3

Town Ordinance § 45.5 Analysis

Town of Florida Code Analysis
Route 5S, SBL 56.-3-7.22
Route 5S Solar Array

Solar Energy Partners Amsterdam LLC ("Applicant") is the record property owner of land on State Highway 5S, SBL 56.-3-7.22 ("Property") in the Town. The approximately 19.35-acre Property is zoned IBP – Industrial Business Park under the Town Zoning Ordinance ("Ordinance").

Applicant proposes an approximately 2.50 MWAC ground-mounted, fixed-tilt solar photovoltaic system (FT) that generates electricity for offsite use, sale, and consumption ("Solar Array"). Power generated from the Solar Array is added to the existing grid for local consumption. The Solar Array includes one pervious gravel access roads, inverter pads, a fence surrounding the entirety of the equipment, underground wiring, and overhead utility interconnection to equipment. Access is taken off Route 5S. Power generated from the Solar Array is added to the existing grid for local consumption.

Applicant will not disturb any area of the Property outside the Solar Array limits. Applicant also proposes a landscaping plan with a vegetative wall adjacent to Route 5S and in reliance on existing mature vegetation that will not be cleared. In replacing a fallow field and utilizing exiting mature vegetation bounding the field, the Solar Array minimizes land disturbance, tree clearance, and visual impact. Applicant also commits to provision of a decommissioning plan and bond, and Applicant will comply with its proposed Operations & Maintenance Plan. Applicant has strategically chosen the Property given its isolation from residential uses, proximity to necessary utility infrastructure, and compatible adjacent uses. The Solar Array is a low-impact use requiring little in-person monitoring and maintenance.

Under Ordinance § 45.5, the Solar Array is a permitted use on the Property subject to the issuance of a Special Use Permit from the Town Board and Site Plan approval from the Planning Board. Additionally, the Solar Array requires waivers from the Town Board. The analysis below demonstrates that the Solar Array meets the Special Use Permit Criteria, Specific Standards for Large Scale Solar Systems as a Special Use, and Additional Requirements set forth in forth in Ordinance Section § 45.5.

Ordinance Section 45.5: Solar Energy Systems and Equipment

Section 45.5.C.1 – Application Requirements

(a) Special Use Permit Application Requirements. For a Large-Scale Solar Energy System, both the site plan and special permit applications, and required application materials, fees and submissions, are to be used in keeping with the relevant Articles of this Law, and supplemented by the following requirements:

(1) If the property of the proposed project is to be leased, legal consent between all parties, specifying the use(s) of the land for the duration of the project, including easements and other agreements, shall be submitted.

Applicant Response: Applicant is the record property owner of the Property.

(2) Blueprints showing the layout of the Solar Energy System signed by a Professional Engineer or Registered Architect shall be required.

Applicant Response: Applicant's Site Plan Set is enclosed as Exhibit 2. Applicant will submit a stamped set signed by a New York State Licensed Engineer after completion of the Planning Board site plan process.

(3) The equipment specification sheets shall be documented and submitted for all photovoltaic panels, significant components, mounting systems, and inverters that are to be installed.

Applicant Response: Please see Exhibit 2, Sheet E-800.

(4) A full environmental assessment form, with Part 1 completed, and the visual assessment form addendum.

Applicant Response: A complete FEAF is attached. Please see Exhibit 6. Please also note that a visual EAF addendum is no longer in use as a result of revisions to the short and full EAF made by the NYSDEC several years ago. Meanwhile, a visual impact assessment for the Solar Array is enclosed as Exhibit 9.

(5) Stormwater runoff calculations and drainage plan.

Applicant Response: Applicant is finalizing its Stormwater Pollution Prevention Plan (SWPPP) and erosion and sediment control plan, and Applicant will provide it to the Town for review.

(6) The location and extent of natural resources and other significant features of the site including but not limited to the following: streams, wetlands, ponds, prime agricultural soils, flood plain, rock outcroppings, extent of clearing of mature trees, existing or proposed easements or right-of-ways.

Applicant Response: Existing site conditions are documented in Applicant's Site Plan, see Exhibit 2 Further, Applicant has provided a Wetland Delineation, Exhibit 7, and an Agricultural Data Statement, Exhibit 11.

(7) Landscaping/Screening Plan. Such plan shall describe the methods and types of screening that is proposed, including but not limited to existing vegetation, topography, fencing and structures, and also detailing the number, location, size and species of vegetation to be planted on site and the size and extent of berms. Such plan shall also include appropriate performance criteria specifying minimum vegetation sizes and measures to be taken in the event that the proposed vegetation fails to survive, flourish, or otherwise meet said performance criteria throughout the lifetime of the project.

Applicant Response: Applicant's Landscaping Plan and associated details are enclosed as Exhibit 2, Sheet L1 Preliminary Master Landscape Plan. As part of finalization of the landscape plan, Applicant will discuss efforts to ensure landscaping survives and flourishes during the life of the Project. Please note that Exhibit 4, the preliminary Operation & Maintenance Plan, discusses maintenance duties of the Solar Array that helps to preserve and maintain vegetative screening.

(8) Property Operation and Maintenance Plan. Such plan shall describe continuing photovoltaic maintenance and property upkeep including landscaping, mowing and trimming as well as any agricultural operations that will occur on the site or property once the System is installed.

Applicant Response: Applicant's Property Operations and Maintenance Plan is enclosed as Exhibit 4. This details Applicant's proposed ground maintenance including mowing and reseeding schedule, as well as other various operational duties of the Solar Array.

(9) The Applicant shall provide written confirmation that the electric grid has the capacity to support the energy generated from the proposed Large Scale Solar Energy System at its maximum peak design. A location map of the connection point to the grid shall be provided along with a description of any easements or right-of-ways, clearing, infrastructure, appurtenances, and equipment that may be necessary or required to connect to the grid.

Applicant Response: Applicant's abridged Coordinated Electric System Interconnection Review (CESIR) provided by National Grid is attached, see Exhibit 12. This confirms that there is capacity for the Project at the Property as the interconnection is "feasible." The interconnection point for the Project is depicted in Applicant's Site Plan, Exhibit 2.

(10) Decommissioning Plan. To ensure the proper removal of Solar Energy Systems and Equipment, a Decommissioning Plan shall be submitted as part of the application. Compliance with this plan shall be made a condition of the issuance of a special use permit under this Section. The Decommissioning Plan must identify who will be responsible for the removal of the System after the Large Scale Solar Energy System is no longer in use. The Decommissioning Plan shall demonstrate how the removal of all infrastructure and the remediation of soil and vegetation shall be conducted to return the parcel to its original state prior to installation. The Plan shall also include an expected timeline for execution. A cost estimate detailing the projected cost of executing the Decommissioning Plan shall be prepared by a Professional Engineer or Contractor. Cost estimations shall take into account inflation. Removal of Solar Energy Systems must be completed in accordance with the Decommissioning Plan. The Town shall also require a decommissioning bond or other financial security in which to finance the cost of such removal and restoration if not removed by the party designated in the plan as the party

responsible for removal of the System within the time specified for removal in the Decommissioning Plan.

Applicant Response: Applicant's Preliminary Decommissioning Plan is enclosed as Exhibit 5. Applicant further commits to working with the Town on a surety and underlying decommissioning surety amount, and Applicant anticipates that prior to issuance of a building permit, that Applicant and Town will enter into a Decommissioning Agreement to further confirm the Decommissioning duties.

Section § 45.5.C.2 – Specific Standards for Large Scale Solar Systems as a Special Use

(a) Height and Setback. The Solar Energy System shall have a maximum height of twenty (20) feet from ground elevation and shall be setback at a minimum of five hundred (500) feet from all of the parcel's boundary lines and two hundred (200) feet from all wetlands, ponds and streams. Buildings and accessory structures other than Solar Energy Equipment, if any, shall adhere to the height and setback requirements of the underlying zoning district.

Applicant Response: Panel height is 9' 10" maximum, as shown in Sheet S-201 of the Site Plan, Exhibit 2.

Applicant requests a waiver under Ordinance § 45.5.C.2(a) because the Solar Array does not comply with the bulk and area requirements of the Ordinance § 45.5(a) regarding 500' from all parcel boundary lines and 200' from all wetlands, ponds, and steams. A full wavier request is below in response to Ordinance § 45.5.C.2(a)

(b) Lot and System Size. Large-Scale Energy Systems shall only be located on lots with a minimum lot size of ten (10) acres. The size of the Solar Energy System shall be limited to a maximum of 5 MW of electrical energy generation per design at peak levels of operation or the land surface area covered by the Solar Energy System including internal access roads, Solar Panels and all System components and Solar Equipment, shall not encompass more than twenty-five (25) acres of the lot regardless of whether the System is contiguous or noncontiguous.

Applicant Response: Applicant complies with this provision. The Property is 19.35-acres, and the Solar Array is 2.5 MW in size. The Solar Array occupies less than 10 acres, well below the 25-acre threshold.

(c) Lot Coverage. For purposes of this section, the surface area covered by Solar Panels, Solar Equipment and all System components including internal access roads, shall be included in total lot coverage. If the area in which the Solar Energy System is to be placed is leased, then the terms "lots" and "entire lot size" shall mean the land area that is leased. A Large Scale Solar Energy System shall not exceed the maximum lot coverage of the lot on which it is installed as follows:

For lots consisting of 10 to 15 acres, the maximum total lot coverage shall be 1/3 (33/3%) of the entire lot size.

For lots consisting of 15 to 25 acres, the maximum total lot coverage shall be 2/5 (40%) of the entire lot size.

For lots greater than 25 acres, the maximum total lot coverage shall be 1/2 (50%) of the entire lot size with a maximum system size as set forth in subsection b above.

Applicant Response: Applicant complies with this provision. The Property is 19.35 acres, and the Solar Array is situated on 6.76 acres of the Property. Therefore, the lot coverage is, at most, 35%, below maximum 40% lot coverage for lots that are 15 to 25 acres.

(d) No part of a Large Scale Solar Energy System shall be located above the elevation of 700 feet, along ridgelines, on hilltops, or on slopes greater than 12%.

Applicant Response: Please refer to Exhibit 2, Sheet C-003.

(e) All Solar Energy Systems shall be sited and screened in such a manner to have the least possible visual effect on neighboring properties, public roads and recreational areas, important scenic vistas and the general aesthetic environment. Screening by existing topography, trees and vegetation shall be incorporated to the maximum extent practicable and where not practicable screening must be installed such as vegetative berms or deer resistant evergreen plantings or a combination thereof.

(i) A visual assessment report with simulated views of the post construction conditions, including the proposed landscaping plan, shall be submitted to the Planning Board. The visual assessment will use computer modeling and photography showing existing conditions to thoroughly assess the visibility of the solar array from key viewpoints which will be identified by the Planning Board, taking into account existing tree lines, surrounding topography, and proposed elevations. The visual assessment report shall be completed in accordance with the NYSDEC guidance on visual impact assessment pursuant to SEQRA.

Applicant Response: Applicant has prepared a Visual Impact Assessment, see Exhibit 9. As discussed in that assessment, by using south facing arrays, existing vegetation, and strategically placed plantings along Route 5S, the Solar Array will have limited visual impact.

(f) Significant clearing of mature tree growth and hedgerows should be avoided to the maximum extent possible. Installation of Large Scale Solar Energy Systems on fields or land areas which do not require significant clearcutting is preferred. In no case shall the Solar Energy System require clearcutting of more than 9 acres. Once the land is cleared and the Solar Energy System is installed, the land disturbed must be reseeded or replanted with a combination of native plant species and native grass. Ground cover of gravel or

other non-vegetative cover should only be used for access and internal roads to the maximum extent practicable.

Applicant Response: Applicant strategically sited the Solar Array to avoid clearing as much as practicable. Applicant is only proposing to clear 2.43 acres of trees, well below the 9-acre limit. Applicant is proposing to reseed and replant with native species and grass as detailed in the Site Plan, Sheets C-100 and L1.

(g) Installation of Large Scale Solar Energy Systems on land areas which contain prime agricultural soils shall be avoided to the maximum extent possible. In no case shall the Solar Energy System cover more than 5 acres of prime agricultural soils.

Applicant Response: Applicant has strategically sited the Solar Array to be on underutilized, fallow, farmland.

(h) The materials used for the Solar Energy System shall not be conducive to glare visible from beyond the lot's boundary lines. The Solar Energy System shall not generate noise or heat detectable from beyond the lot's boundary lines. The applicant shall demonstrate that any glare and heat to be produced by the Solar Energy System does not have a significant adverse impact on neighboring properties or roadways by providing a glare analysis that is acceptable to the Planning Board.

Applicant Response: Applicant is proposing to use Q Peak Duo and First Solar Seirs 7 TR1 panels – insert other series solar panels which have anti-reflective coating. coating, see Exhibit 2, Sheet E-800. Further, Applicant has prepared a Visual Impact Assessment, see Exhibit 9, that shows the limited visual appearance of the Solar Array. Applicant has also prepared a Glare Analysis, see Exhibit 10, which demonstrates that the Solar Array will produce no glare. Further, Applicant confirms that the Project will not generate heat or noise that will be detectable from beyond the lot's boundary lines

(i) All Large-Scale Solar Energy Systems shall be enclosed by fencing no less than 8 feet in height to prevent unauthorized access. Warning signs with the owner's contact information shall be placed on the entrance and perimeter of the fencing. The type of fencing shall be determined by the Town Board or Planning Board. The fencing may need to be setback from boundary lines and roads and further screened by any landscaping needed to avoid adverse aesthetic and safety impacts.

Applicant Response: Applicant is proposing to fence the Solar Array with an 8' tall agricultural style fence and 8" clearing to allow small mammals to pass through, see Exhibit 2, Sheet C-300. Applicant is also proposing to place warning signs at the entrance to the Property, see Exhibit 2, Sheet E-900

(j) Any associated structure shall be screened, placed underground, depressed, earth bermed or sited below the ridgeline to the greatest extent feasible, particularly in areas of high

visibility, and the same shall be noted in the Site Plan. Where feasible, all utilities serving the site shall be underground.

Applicant Response: Applicant screens the array via strategic siting and strategic plantings, see Exhibit 2, Sheet LI. Applicant confirms that utilities will be underground where feasible. Exhibit 2, sheet C-100.

(k) If solar storage batteries are included in the Solar Energy System, the batteries must be placed in a secure container or enclosure meeting the requirements of the International Building Code, International Fire Prevention Code and NFPA 70. When the batteries are no longer in use, they shall be disposed of in accordance with the International Building Code, International Fire Prevention Code and NFPA 70 as well as the local laws of the Town, and any other applicable laws or regulations. Battery Energy Storage systems for Large Scale Solar Systems are not permitted in the Town.

Applicant Response: Applicant is not proposing to build a battery energy storage system (BESS) on the property, only the Solar Array.

(l) No artificial light is permitted, unless the same is required by a federal, state or local authority or regulation. Exterior lighting may be provided for associated accessory structures and access entrances as may be determined appropriate for security purposes only. If lighting is proposed a lighting plan shall be included with the Site Plan that is compliant with lighting standards set forth in the Zoning Ordinance.

Applicant Response: This criteria is acknowledged by the Applicant. Applicant is not proposing to install any lighting for the Solar Array.

(m) Roadways within the site for solar access shall not be constructed of impervious materials and shall be designed to minimize the extent of roadways constructed and soil compaction, while providing sufficient ability, including but not limited to load bearing ability, to accommodate fire and other emergency apparatus. The layout, location, and number of access roads will be subject to site plan review.

Applicant Response: This criteria is acknowledged by the Applicant.

(n) Roadways must be properly maintained and kept free of debris and snow. Snow removal shall be within 24 hours of accumulation of a minimum of 6" of snow.

Applicant Response: Applicant will keep the access road clear as detailed in Exhibit 4, Proposed Operations and Maintenance Plan.

(o) Review and approval of the application by the nearest fire department for accessibility of emergency vehicles and equipment is required prior to site plan review.

Applicant Response: This criteria is acknowledged by the Applicant. The Fire Department will be contacted during SEQRA review. Applicant will work with the Fire Department to ensure adequate access and turnarounds are provided.

(p) Any application under this Section shall meet any provisions, requirements and standards contained in the Zoning Ordinance that, in the judgment of the Town Board and Planning Board pursuant to their respective jurisdictions, are applicable to the Large Scale Solar Energy System Solar Energy System being proposed. If none of such requirements are applicable, the reviewing Boards may waive certain of the requirements under their respective review jurisdictions.

Applicant Response: Regardless of property conditions, zoning classification, or project design, however, the Ordinance § 45.5.C.2(a), requires that the Solar Array be setback a minimum 500' from the Property boundary and 200' from wetlands, ponds, and streams. As the specific standards for the Solar Array as a special use contain the required setbacks, the Town Board has the jurisdiction to waive application of the setbacks to the Solar Array. Applicant is therefore requesting a waiver from the Town Board, which, if granted, would make the 500' and 200' setbacks of Section 45.5.C.2(a) inapplicable to the Solar Array.

The Property here is relatively narrow, stretching between State Route 5S in the north where the property is 411 feet wide, and the State Thruway in the south, and measuring 792 feet. Applicant has also designed the Solar Array to avoid disturbance with any wetlands or potential wetlands and minimize tree clearing and ground disturbance. Instead of clearcutting and maximizing the site, Applicant has consciously opted to develop primarily within preexisting cleared areas and away from known drainage areas of the Property.

Notably, the Solar Array still meets the intention of the Ordinance and specific solar regulations. The Town's intention when it adopted its solar regulations, was to keep solar on properties zoned industrial. This Solar Array is located on the correctly zoned parcel, Industrial Business Park, IBP. But the Property is not even 1,000 feet wide and could not host any solar array under strict application of the Ordinance. Nonetheless, the Solar Array, as designed, complies with required setbacks for other uses in the IBP district.

The Solar Array is designed to minimize visual impact, reduce environmental concern, and maximize use of a small, industrially zoned underused parcel bounded by two major commercial highways. The Solar Array, as designed, also complies with the standard setbacks for uses in the IBP and on the Property. The Solar Array meets the intention of the Town's Ordinance because potential impacts are still considered, designed for, and mitigated.

Applicant has also respected the existence of wetlands in coordinated review efforts with the Army Corps. of Engineers and State Department of Environmental Conservation. As of the date of this submission, Applicant has requested a

jurisdictional determination from each agency. The Solar Array as designed, does *not* cross any wetland, regardless of their jurisdictional determinations and respects the regulated buffer regardless of jurisdiction.

Overall, this waiver request does not undercut the purpose of setbacks. The Solar Array is not adjacent to residential uses; it is strategically located on a narrow industrially zoned parcel between two highways. The waiver acknowledges the uniqueness and circumstances of the parcel, adaptive and tactical reuse of the property, and conscientious design that while not in compliance with solar setbacks, embodies the Town's intent to keep solar industrial, while also minimizing tree clearing, adding landscaping, and avoiding significant ground disturbance. Therefore, Applicant respectfully asks the Town Board to grant its wavier request and deem the minimum setbacks set forth in Ordinance § 45.5.C.2(a) inapplicable to the Solar Array.

(q) The Town Board may impose conditions on its approval of any special use permit and the Planning Board may impose conditions on its approval of any site plan under this Section in order to enforce the standards referred to in this Section or in order to discharge its obligations under the State Environmental Quality Review Act (SEQRA).

Applicant Response: This criteria is acknowledged by the Applicant.

Exhibit 4

Proposed Operations and Maintenance Plan

SOLAR ELECTRIC SYSTEM - SEP Amsterdam

DISTRIBUTED GENERATION MAINTENANCE PLAN

The following section broadly describes the ongoing maintenance to be performed for the solar Distributed Generation system. This work will be performed by the project's designated Operations and Maintenance (O&M provider). Work is to be performed in accordance with the below General Provisions and Scope of Work.

General Provisions:

I. Standard working hours shall be defined as the hours 8 am through 5 pm Local Time, Monday through Friday, excluding holidays. Emergency hotline and response to be defined separately.

II. If not explicitly stated otherwise, all work described within this Scope of Work shall be performed during standard working hours.

III. Factory warranties for all major system components are recommended to be maintained throughout the service life of the system.

IV. All scheduled and unscheduled work performed by O&M provider, or its subcontractors will be recorded on relevant checklists and inspection sheets.

V. Snow removal from site shall be performed by the O&M provider as needed.

1. System-Wide Maintenance		
System-wide maintenance includes but is not limited to the following:		
Item	Service Description	Frequency
1	Complete and submit Maintenance Reports as required by agreement.	As Needed
2	Inspect the mechanical functionality of the Project – including but not limited to randomly inspecting a reasonable quantity of the fastening/mounting elements, equipment connection and coupling cases, visual inspection of overhead poles and lines, verifying that the threaded connections are tight, visual inspection of all parts of the equipment and checking the cabling. Quantity inspected shall be not less than 10% and is acknowledged as sufficient to make informed recommendation if follow-up or additional remediation is required.	1x per year

Corporate Headquarters
6500 Sheridan Drive, Suite 120
Buffalo, NY 14221
866.80.RENEW (73639)
866.807.7882 Fax
solarliberty.com
info@solarliberty.com

3	Inspect all electrical boxes, combiner boxes and electrical equipment for water damage or signs of significant water accumulation in underground conduit.	1x per year
4	Scan combiner boxes with Infrared camera to identify loose or broken connections.	1x per year
5	Visually Inspect the medium-voltage components and conduct grounding measurements and verification.	1x per year
6	Inspect accessible cabling for signs of cracks, defects, pulling out of connections, overheating, arcing, short or open circuits, and ground faults.	1x per year
7	Check for abnormal corrosion on parts of the Project and perform minor service on any parts with the potential for corrosion to remove long-term risks.	1x per year
8	Check the mechanical functionality of the built-in components and interrupters (ground fault circuit interrupters and circuit breakers).	1x per year
9	Check the functionality of the meters. For avoidance of doubt, functionality of the meters means that meters are operating, communicating reliably and measuring coherent values as compared to the backup meters.	1x per year
10	Maintain pyranometers on a regular basis according to the manufacturer's recommendations, including but not limited to: calibration, cleaning, checking electrical connections and mechanical supports, verifying installation tilt and azimuth, checking desiccant and filters.	As Needed
11	Maintenance of the structure that will support the Panels shall be by various means including visual inspection, searching for impacts, corrosion and condition of the protective paint, and absence of water deposits.	1x per year
12	Thermal camera testing of electrical current connections and circuit breakers.	1x per year
13	Carryout maintenance of Project transformer(s) in accordance with manufacturer’s recommendation.	As Needed

Corporate Headquarters
6500 Sheridan Drive, Suite 120
Buffalo, NY 14221
866.80.RENEW (73639)
866.807.7882 Fax
solarliberty.com
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2. Panel Maintenance		
Ongoing panel maintenance includes but is not limited to the following operations:		
Item	Service Description	Frequency
1	Check for possible glass breakage, normally caused by external actions, and rarely by thermal fatigue arising from assembly errors.	1x per year
2	Visually check for oxidation in the circuits and welding of the photovoltaic cells, normally due to the entrance of dampness into the panel because of a fault or breakage of the sealing layers.	1x per year
3	Check for change of color to yellow or brown (known as yellowing and browning) of the sealant or encapsulant.	1x per year
4	Where possible, check for issues with the panel backsheet, as inflammations in this area could be a symptom of a hot point in the module.	1x per year
5	Where possible, check for deformations in the junction boxes of the module due to overheating of the bypass diodes and/or high contact resistance because of bad tightness of an electrical terminal.	1x per year
7	Check the tightness and condition on not less than 10% of the module series connections.	1x per year
8	Where feasible, visually check the watertight integrity of the terminal boxes or the condition of the protective hoods of the terminals, depending on the type of Panel.	1x per year
9	In the event that faults are detected in the watertight integrity, either 1) make minor repairs that do not compromise the panel warranty or 2) process a panel warranty claim.	1x per year
10	Undertake comparative measurement of string DC currents.	1x per year

3. Inverter Maintenance
Ongoing inverter maintenance includes but is not limited to the following:

Corporate Headquarters
6500 Sheridan Drive, Suite 120
Buffalo, NY 14221
866.80.RENEW (73639)
866.807.7882 Fax
solarliberty.com
info@solarliberty.com

Item	Service Description	Frequency
1	Annual maintenance performed by O&M Contractor as required to meet the manufacturer's warranty requirements.	As required
2	General visual observation of the condition and functioning of the inverter.	1x per year
3	Check wiring and the connection tightness of the parts.	1x per year
4	Verify that the site of the inverter is clean, dry and well ventilated and insulated.	1x per year
5	Check that the inverter works properly and that unusual noises are not coming from inside it.	1x per year
6	Check that where the inverter is placed maintains suitable temperatures so that this equipment can always work within the temperature range specified by the inverter manufacturer such that it does not derate.	1x per year
7	Check the equipment protection and alarms.	1x per year
8	Inspect air filters annually. Replace or clean as necessary.	1x per year

4. Component Testing		
Component tests required include:		
Item	Service Description	Frequency
1	Test 100% of DC source circuits VOC and IMP.	1x per year
2	Test all OCPDs and disconnects.	1x per year

Corporate Headquarters
6500 Sheridan Drive, Suite 120
Buffalo, NY 14221
866.80.RENEW (73639)
866.807.7882 Fax
solarliberty.com
info@solarliberty.com

3	Test equipment grounding/continuity.	1x per year
4	Verify accuracy of all meters, sensors, monitoring devices, communications equipment, weather station.	1x per year

5. Ground-Mount Project Maintenance

Ongoing general Project maintenance includes but is not limited to the following:

Item	Service Description	Frequency
1	Visual inspection of the general Project conditions, vegetation, animal damage, and erosion. No ongoing SWPPP required inspections after NOT photos of erosion I any to be included.	2 x per year
2	Maintain weeds, grasses and ground cover to prevent shading and risk of fire. This includes: mowing, and reseeding grass when necessary to mitigate erosion.	.. 2 x per year
3	Monitor trees and larger vegetation to prevent shading. If shading is present or imminent, O&M Contractor will assist Owner in identifying a third party service to conduct the needed trimming. O&M Contractor will provide direction to that third party as to what vegetation needs to be trimmed.	As needed
4	Remove all rubbish, excessive vegetation, animal nests, dead animals, and other obstructions from underneath array, electrical equipment servicing zones and other key access areas.	.. As needed

6. Racking Maintenance

Ongoing tracking and non-tracking racking maintenance includes but is not limited to the following:

Item	Service Description	Frequency
1	Visually inspect all racking hardware and components for abnormal wear or excessive corrosion.	1x per year

Corporate Headquarters
6500 Sheridan Drive, Suite 120
Buffalo, NY 14221
866.80.RENEW (73639)
866.807.7882 Fax
solarliberty.com
info@solarliberty.com

2	Verify torque of not less than 5% of bolted connections on the racking.	At least 1x per year
3	Inspect all ground mounts, visually inspect structural footings and check for abnormal wear and physical damage from vehicles.	1x per year

Corporate Headquarters
6500 Sheridan Drive, Suite 120
Buffalo, NY 14221

866.80.RENEW (73639)
866.807.7882 Fax

solarliberty.com
info@solarliberty.com

Exhibit 5

Preliminary Decommissioning Plan

SEP Amsterdam Decommissioning Plan

Decommissioning of the solar array facility may occur if the Project is abandoned during construction, during operations, or at its component end-of-life of power, which are typically
the end of this supply agreement lifecycle. The exact procedures for the restoration of the project site will be related to the future land usage of the project location.

The decommissioning will be undertaken by qualified contractors using the same methodology as for the solar array field construction. Equipment would be the same as that identified in the Construction Plan report. The work entails setting up a construction camp as required, installing measures to address potential negative environmental impacts, and undertaking the removal and disposal of the solar array components, both above-ground and below-ground. Much of the material in a solar array facility is reusable or recyclable. In some instances, the purchase agreement with the manufacturer may have a return and/or recycling requirement. Full site decommissioning and restoration is expected to take 1.5 months. This duration is dependent on whether materials are being reused or recycled. It is anticipated that the work will be undertaken in the summer months and to follow any regulatory and municipal requirements.

The facility is located at 1225 NY-5S Amsterdam, NY 12010.

During development, Solar Liberty will be installing approximately 5,166 solar panels for the ground mounted solar array. The lifespan of the array is approximately 30 years. The intention of the applicant is to decommission the site at the end of its useful life.

I. Project Abandonment (During Construction or Operations)

If the project is abandoned during construction, orders for materials not delivered to site will be cancelled. Materials that are packaged will be returned to the manufacturer un-opened. Other stockpiled, assembled and installed materials will be dealt with similar to end-of-agreement decommissioning for above-ground and below-ground works. Decommissioning during the operational stage will be the same as at the end-of-agreement. Greater care in handling may be required if materials are to be reused.

Dismantling activities would include:

-Notification to relevant agencies that the Project has been discontinued and that the decommissioning plan is being implemented;
-Taking the system off-line and ensuring all distribution switches are in the disconnect position;
-Dismantling of PV panels with support frames, and mounting frames and bases using construction equipment similar to that identified in the Construction Plan Report, and trucking off-site to the receiving destination either for reuse or recycling;
-Removal of any above-ground structures within the Project site (transformers, inverters, combiners, disconnect switches and splitters, revenue meter, high voltage interrupter and isolation switch, cabinetry, foundation pads, and fencing);
-Removal of any buried structures to a minimum of depth of 1 metre;
-After disconnecting electrical cables leading to underground ducts, excavating and burying cable ends a minimum of 1 meter below grade;
-Excavating and removal of site access materials and disposal off-site;
-Site preparation of disturbed areas and spreading of stockpiled topsoil; ·
-Removal of any off-site electrical works (overhead distribution system and any
disconnect switching) owned by SEP Amsterdam.
-Removal of all concrete and residual waste from site.

The decommissioning process at this time will be the responsibility of SEP Amsterdam, the solar provider. If for any reason SEP Amsterdam does not fulfil its responsibility, the Town will be responsible via the decommissioning bond.

II. Project Decommissioning at End-of-Agreement Responsibility of SEP Amsterdam

Project decommissioning at the end-of-agreement would be the same as during the operational phase. Structural materials (steel frames) and most electrical components would have reached their life expectancy and would not be considered for reuse. A detailed inspection and testing of the PV panels, PV Inverters, and Electrical conductors would be undertaken to determine if they were salvageable. This being the case, the Owner may choose to stockpile the panels and Ancillary Equipment at a warehouse for their own further use, sell to other users, or possibly return to the manufacturer.

Dismantling activities would include:
-Notification to relevant agencies that the Project has been discontinued and that the decommissioning plan is being implemented;
-Taking the system off-line and ensuring all distribution switches are in the disconnect position;
-Dismantling PV panels with support frames, and mounting frames and bases using construction equipment similar to that identified in the Construction Plan Report, and trucking off-site to the receiving destination either for reuse or recycling;
-Removal of any above-ground structures within the Project site (transformers, inverters, combiners, disconnect switches and splitters, revenue meter, high voltage interrupter and isolation switch, cabinetry, foundation pads, and fencing);
- -Removal of any buried structures to a minimum depth of 1 metre;
-After disconnecting electrical cables leading to underground ducts, excavating and burying cable ends a minimum of 1 meter below grade;
- Excavating and removal of site access materials and disposal off-site;
-Site preparation of disturbed areas and spreading of stockpiled topsoil; and ·
-Removal of any off-site electrical works (overhead distribution system and any disconnect switching) owned by SEP Amsterdam;
- Removal of all concrete and residual waste from site.

III. Waste Materials

Waste materials, whether solid or environmental, will be sorted per type for recycling and taken to the nearest approved facility in accordance with provincial waste management regulations.
Licensed haulers will be used where required. Tickets from the receiving facility will be collected.

IV. Site Restoration

Construction activities for the decommissioning will be contained within the original working area. The solar array field was vegetated (grassed) to control erosion and encourage infiltration. The original construction footprint relates to the granular access road and the aboveground electrical equipment, and foundation supports.

Decommissioning may result in further mixing of the soil profiles (topsoil and subsoil), compaction, erosion and potential loss of soil fertility (stockpiling). Arrangements will be made with the landowner (farmer) to scarify to a depth of 150mm the area where topsoil had been removed. The stockpiled topsoil will be placed in this area to meet the original grade. To regain its nutrient value, organics (manure) will be tilled into the topsoil. The bare spots within the grassed area will be top-dressed and reseeded with similar grass. Discussions with the landowner will be held to determine if the field is being returned to active cultivation. This being the case, the existing grass will be ploughed and disced to break up the sod. At other disturbed areas where works were installed, a similar approach of backfilling and compacting at excavations having a depth of 0.3 meters or more, scarifying and adding topsoil with organics will be undertaken prior to seeding as required. Any vegetive screening to be removed as the last phase of Decommissioning.

The New York State Department of Agriculture and Markets Guidelines will be followed as a reference.

Potential Negative Environmental Effects and Mitigation

Activities for decommissioning are anticipated to be the same as that undertaken for construction. Excavation operations could produce dust and noise as well as sediment transport. Equipment maintenance and operation could result in the potential for environmental spills. Local traffic will be increased. There should be no impact to vegetation, water resources, and cultural heritage. Construction best management practices will be employed. Mitigation measures will follow the requirements set out in the Construction Plan Report including designating areas for equipment service and refueling, installing and maintaining sediment and erosion control measures, as defined by SWPPP, and carrying out the work to the hours set out in any local bylaws.

SEP Amsterdam

Solar Liberty Decommissioning Estimate

System Size 2 MW (AC)

	Unit	Est. Qty	Hours	Material/ Labor Cost	Salvage Labor	Material Recycle Value	Net Salvage	Net Cost	Notes
Contractor Fees									
Mobilization	LS	1	0	$1,854.50	$0.00	$0.00	$0.00	$1,854.50	
Supervisory/ Management	LS	1	66	$8,250.00	$0.00	$0.00	$0.00	$8,250.00	Labor Hours 66 Cost Per Hour $125.00
Electrical Disconnection	EA	1	20	$2,200.00	$0.00	$0.00	$0.00	$2,200.00	Labor Hours 20 Cost Per Hour $110.00
Silt Fence	LF	3238	0	$8,095.00	$0.00	$0.00	$0.00	$8,095.00	Cost Per LF $2.50
Permitting Fees	LS	1	0	$0.00	$0.00	$0.00	$0.00	$0.00	No Permit Assumed
Subtotal			**86**	**$20,399.50**	**$0.00**	**$0.00**	**$0.00**	**$20,399.50**	
Site Work									
Access Roads	LF	773	64	$7,730.00	$0.00	$0.00	$0.00	$7,730.00	Labor Hours 64 Cost Per hour $90.00
Restoration Seeding (Acres)	AC	13	3	$16,250.00	$0.00	$0.00	$0.00	$16,250.00	Damage Areas Only $1,250.00 per acre
Fence Removal and Recycling	LF	3158	32	$2,842.20	$0.00	$0.00	$0.00	$2,842.20	LF/hr 100 Cost Per Hour $90.00
Site Cleanup	LS	1	138.4	$12,456.00	$0.00	$0.00	$0.00	$12,456.00	Labor 138.4 Cost Per Hour $90.00
Subtotal			**237.4**	**$39,278.20**	**$0.00**	**$0.00**	**$0.00**	**$39,278.20**	
Racking Removed									
Remove Recycle Piles	EA	1447.6	24	$2,171.40	$0.00	$0.00	$0.00	$2,171.40	Piles per hour 60 Cost Per Hour $90.00
Remove and recycle racking	EA	340	28	$2,550.00	$0.00	($25,500.00)	($25,500.00)	($22,950.00)	Tables per Hour 12 Cost Per Hour $90.00
Subtotal			**52**	**$4,721.40**	**$0.00**	**($25,500.00)**	**($25,500.00)**	**($20,778.60)**	
Solar Modules Removed									
Remove Modules	EA	5166	86	$7,749.00	$0.00	$0.00	$0.00	$7,749.00	Modules per hour 60 Cost per hour $90.00
Subtotal			**86**	**$7,749.00**	**$0.00**	**$0.00**	**$0.00**	**$7,749.00**	
AC & DC Wire Renewal									
DC/ AC Direct Burial Wire Removal	LF	9294	15	$1,703.90	$0.00	($1,858.80)	($1,858.80)	($154.90)	Linear Feet per hour 600 Cost per hour $110.00
AC Overhead Wire Removal	EA	250	3	$275.00	$600.00	($50.00)	$550.00	$825.00	Linear Feet per hour 100 Cost per hour $110.00
DC Wire Removal	LF	150010	100	$11,000.73	$0.00	($15,001.00)	($15,001.00)	($4,000.27)	Linear Feet per hour 1500 Cost per hour $110.00
Interconnection Pole Removal	EA	4	1	$146.67	$0.00	$0.00	$0.00	$146.67	Poles per hour 3 Cost per hour $110.00
Inverter Removal	EA	9	2	$247.50	$0.00	$0.00	$0.00	$247.50	Inverters per hour 4 Cost per hour $110.00
Transformer Removal	EA	1	2	$220.00	$0.00	($9,020.00)	($9,020.00)	($8,800.00)	Transformers per hour 0.5 Cost per hour $110.00
Subtotal			**123**	**$13,593.80**	**$600.00**	**($25,929.80)**	**($25,329.80)**	**($11,736.00)**	
Equipment Pad Removal									
Remove Equipment Pads	EA	1	5	$3,000.00	$0.00	$0.00	$0.00	$3,000.00	Cost per pad $3,000.00
Subtotal			**5**	**$3,000.00**	**$0.00**	**$0.00**	**$0.00**	**$3,000.00**	
Decommissioning Subtotal			**589**	**$88,741.90**	**$600.00**	**($51,429.80)**	**($50,829.80)**	**$37,912.10**	
Subcontractor Markup	10%			$8,874.19	$0.00	$0.00	$0.00	$8,874.19	
Total Decommission				**$97,616.09**	**$600.00**	**($51,429.80)**	**($50,829.80)**	**$46,786.29**	

Decommissioning without Value of Recycling	
Estimated Cost based on 2% Escalation	Year
$160,149.54	25
$176,818.04	30
$195,221.40	35

Decommissioning with Value of Recycling	
Estimated Cost based on 2% Escalation	Year
$76,757.87	25
$84,746.89	30
$93,567.41	35

Exhibit 6

Full Environmental Assessment Form

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 that 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 following sub-questions. If the answer to the initial question is "No," proceed to the next question. Section F allows the project sponsor to identify and attach additional information. Section G requires the name and signature of the applicant or project sponsor to verify the information in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Solar Energy Partners - Town of Florida		
Project Location (describe and attach a general location map): 1225 NY 5S, Amsterdam, NY 12010 SBL 56.-3-7.22		
Brief Description of Proposed Action (include purpose or need): The development of a property located in the Town of Florida. Ground mounted solar panel installation,capable of producing approximately 2.50MW of power. No significant grading or excavation is required and tree clearing is minimized to reduce shading, avoid wetland intrusion, and maintain existing buffer to adjoining properties. Additional landscaping is proposed to further screen the array. The installation will consist of driven piles for racking, driven fence posts, access road, utility poles with overhead lines and concrete equipment. The Project has been defined broadly to include all site work and construction activity.		
Name of Applicant/Sponsor: Solar Energy Partners and SEP Amsterdam LLC	Telephone: (678) 679-2519 E-Mail: jhurley@solarenergypartners.com	
Address: 2400 Herodian Way SE Suite 425		
City/PO: Smyrna	State: GA	Zip Code: 30224
Project Contact (if not same as sponsor; give name and title/role): John Hurley, Solar Energy Partners	Telephone: (678) 679-2519 E-Mail: jhurley@solarenergypartners.com	
Address:		
City/PO:	State: NY	Zip Code: 14202
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 Council, Town Board, or Village Board of Trustees ☑Yes ☐No	Town Board - Special Use Permit and Waiver	August 7, 2026
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	Planning Board - Site Plan	August 7, 2026
c. City, Town or Village Zoning Board of Appeals ☐Yes ☑No		
d. Other local agencies ☐Yes ☑No		
e. County agencies ☑Yes ☐No	GML 239-m referral	
f. Regional agencies ☐Yes ☑No		
g. State agencies ☑Yes ☐No	DEC - Jurisdicitonal determination and possible permit	June 2026
h. Federal agencies ☑Yes ☐No	USACE - Jurisdictional Determination and possible permit	June 2026

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) that 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):

NYS Heritage Areas:Mohawk Valley Heritage Corridor

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):

d. Is the proposed action in a municipality with an adopted comprehensive or individual plan that addresses climate change? ☐ Yes ☑ No

If Yes , identify the elements of the plan that are relevant to the action:

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 Business Park

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, what is the proposed new zoning for the site?

C.4. Existing community services.

a. In what school district is the project site located? Greater Amsterdam

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

c. Which fire protection and emergency medical services serve the project site?
Florida Fire Protection District

d. What parks serve the project site?
Erie Canal Trailway

D. Project Details

D.1. Proposed and Potential Development

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

b. a. Total acreage of the site of the proposed action? +/- 8.62 acres
b. Total acreage to be physically disturbed? +/- 6.76 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? +/-19.35 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No
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: 6-12 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 4,998 modules

ii. Dimensions (in feet) of largest proposed structure: 9' 10" height; 7' 10" width; and 3' 9" length

iii. Approximate extent of building space to be heated or cooled: N/A 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.

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):

***Solar array structures will/will not be placed in any existing or jurisdictional stream/wetland. It is not anticipated that these features will be regulated by the NYSDEC or USACE; however, final jurisdictional determination is subject to approval by the agencies and applicant has already requested the determinations.

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 +/-0.48 acres (impervious surface)

_____ Square feet or +/-19.35 acres (parcel size)

ii. Describe types of new point sources. None

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)?

Stormwater will be directed to on-site stormwater management facility/structure

- 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, boilers, electric generation, surface coating)

_____

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

If Yes:

i. Is the proposed action subject to the Nonattainment New Source Review or Prevention of Significant Deterioration requirements discussed in 6 NYCRR Part 231? ☐ Yes ☐ No

ii. As calculated in the air permit application, the proposed action has the potential to emit:

- _____Tons/year (short tons) of carbon monoxide (CO)
- _____Tons/year (short tons) of oxides of nitrogen (NOx)
- _____Tons/year (short tons) of particulate matter (PM-10, PM-2.5)
- _____Tons/year (short tons) of volatile organic compounds (VOC)
- _____Tons/year (short tons) of sulfur dioxide (SO_2)

iii. Will emissions of air contaminants from the proposed action described above exceed the corresponding major source thresholds? ☐ Yes ☐ No

iv. Does the proposed action have the potential to emit 10 tons/year or more of any one designated hazardous air pollutant or 25 tons/year or more of any combination of such hazardous air pollutants (6NYCRR 200.1(ag))? ☐ Yes ☐ No

If Yes, provide the total potential to emit hazardous air pollutants in short tons/year: _____

h. Will the proposed action generate or emit annual direct and indirect greenhouse gas emissions, such as carbon dioxide, methane, nitrous oxide, sulfur hexafluoride, hydrofluorocarbons, or perfluorocarbons in excess of 10,000 metric tons of total carbon dioxide equivalents per year at any point in the lifetime of the proposed action (estimated using the carbon dioxide equivalent definition and global warming potentials provided in 6 NYCRR Part 496)? ☐ Yes ☑ No

If Yes:

i. Estimate the proposed action's metric tons of carbon dioxide equivalents in tons/year (metric): _____

ii. Describe any greenhouse gas capture, control, or elimination measures included in project design: _____

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 energy demand? ☐Yes ☑No
If Yes:
i. Estimate annual electricity demand during operation of the proposed action: _____

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

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

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

i. During Construction:
- Monday - Friday: 7AM-5PM, or as permitted by code
- Saturday: 7AM-5PM, or as permitted by code
- Sunday: As permitted by code
- Holidays: As permitted by code

ii. During Operations:
- Monday - Friday: 24 hour unmanned
- Saturday: 24 hour unmanned
- Sunday: 24 hour unmanned
- Holidays: 24 hour unmanned

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:
Ambient noise levels will only be exceeded during the construction period.

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, insecticide) 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: 0.25 tons per month (unit of time)
- Operation : 0 tons per month (unit of time)

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

- Construction: Minor trash during construction from packaging materials
- Operation: None

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

- Construction: Typical rolloff dumpster
- 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): Highway, waste transfer station

ii. If mix of uses, generally describe:

b. Land uses and cover types on the project site.

Land use or Cover type	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces (total)	0.000	0.48 (access road)	+ 0.48
• Industrial or manufacturing			
• Commercial			
• Residential			
• Forested	7.24	4.81	-2.43
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	10.91	4.15	-6.76
• Agricultural (includes active orchards, field, greenhouse, etc.)			
• Surface water features (lakes, ponds, streams, rivers, etc.)	0.20	0.20	0.00
• Wetlands (freshwater or tidal)	1.00	1.00	0.00
• Non-vegetated (bare rock, earth, or fill)			
• Other, Describe: Solar Array Envelope	0.00	8.72	+8.71

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 that 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? 0.5' to > 6.5' 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:

DaB-Darien silt loam, 3-8%	26.3 %
DaC-Darien silt loam, 8-15%	28.8 %
LMF-Lansing silt loam, 8-15%	31.9 %

d. What is the average depth to the water table on the project site? Average: 0.5' to > 6.5' feet

e. Drainage status of project site soils:
☑ Well Drained: 45.2 % of site
☐ Moderately Well Drained: _____% of site
☑ Poorly Drained 54.8 % of site

f. Approximate proportion of proposed action site with slopes:
☑ 0-10%: 45 % of site
☑ 10-15%: 45 % of site
☑ 15% or greater: 10 % 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 Steam A, Stream B, Swale Classification A: 840 LF, B: 285 LF, Swale: 95 LF
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name Wetlands A and B Approximate Size A: 0.93 ac; B:0.07 ac
- 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

m. Identify the predominant wildlife species that occupy or use the project site:
typical transient widlife
small mammals
deer, squirrel, bird, rodent, fox

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: _____

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 listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYSOffice 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 New York 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 five 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

E.4. Disadvantaged Communities Designated Pursuant to ECL Article 75

a. Is the project located within, or within ½ mile of, a disadvantaged community? ☒Yes ☐No

If No, could impacts(see examples below in E.4.b) from the project affect a disadvantaged community? ☐Yes ☐No

If Yes to either question in E.4.a, answer the remaining questions in this section.

b. Will there be direct or indirect impacts that may affect a disadvantaged community, such as those listed below? ☒Yes ☐No

i. new noise sources or expansions/modification of existing noise sources;
- noise from operational sources
- noise from construction activities

ii. emissions of air pollutants including, mobile emissions;

iii. wastewater discharges;

iv. generation of odors;

v. light pollution;

vi. new or modified radiation sources;

vii. new or modified sources of solid waste generation, management, or disposal.

If Yes, describe the impacts: There will be limited ambient noise from temporary construction activities.

c. Do any of the State agency approvals identified in question B.g include any of the following DEC permits?

State Pollutant Discharge Elimination System (SPDES)	☐Yes	☒No
Solid Waste Management Facility	☐Yes	☒No
Hazardous Waste Management Facility	☐Yes	☒No
Air Pollution Control (Title V or Air State Facility)	☐Yes	☒No
Water Withdrawal over 20 MGD for Cooling Water	☐Yes	☒No
Waste Transporter	☐Yes	☒No

E.5 Future Physical Climate Risks

Will the proposed action be vulnerable to the following future physical climate risks under current or projected future conditions:

a. Is the proposed action vulnerable to damage from a projected 100-year flood? ☒ Yes ☐ No

b. Is the proposed action vulnerable to damage from a projected 500-year flood? ☐ Yes ☒ No

c. Is the proposed action in an area potentially affected by sea level rise? Yes ☒ No

d. Will the proposed action increase the vulnerability of human or ecological communities to the following:

i. drought? ☐ Yes ☒ No

ii. temperature extremes (hot or cold)? ☐ Yes ☒ No

iii. extreme storms, including high winds? ☐ Yes ☒ No

iv. landslides? ☐ Yes ☒ No

v. coastal erosion? ☐ Yes ☒ No

vi. stormwater flooding? ☐ Yes ☒ No

vii. other climate or weather hazards? ☐ Yes ☒ No If Yes, describe: _____

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 John Hurley, Solar Energy Partners Date August 7, 2026

Signature /s/ John Hurley Title Director

EAF Mapper Summary Report

Monday, August 3, 2026 4:15 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 to confirm data provided by the Mapper or to obtain data not provided by the Mapper.



B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	Yes
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas:Mohawk Valley Heritage Corridor
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]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.h.ii [Surface Water Features]	Yes - Digital mapping information on local, New York State, and federal wetlands and waterbodies is known to be incomplete. Refer to the EAF Workbook.
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local, New York State, and federal wetlands and waterbodies is known to be incomplete. Refer to the EAF Workbook.
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	Yes
E.2.k. [500 Year Floodplain]	No
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]	No
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
E.4.a [Disadvantaged Community]	Yes

Exhibit 7

June 25, 2026
Passero Wetland Delineation

PASSERO
engineering architecture

242 West Main Street, Suite 100
Rochester, NY 14614
585.325.1000 | passero.com

June 25, 2026

Attn: Carter Powell
Senior Project Manager
Solar Liberty Energy Systems, Inc.

Re: Wetland Delineation Verification and Jurisdictional Review – SEP Amsterdam Project (Tax Parcel 56.-3-7.22)

Dear Mr. Powell,

Passero Associates has completed a review of the Wetland Delineation Report prepared by BME Associates in October 2023 (See **Exhibit B**) for the proposed SEP Amsterdam Solar Project. As part of this review, the 2023 Report was evaluated alongside current and historical aerial imagery, topographic mapping, USDA Web Soil Survey mapping, the U.S. Fish and Wildlife Service National Wetlands Inventory (NWI), and the NYSDEC Environmental Resource Mapper. In addition, a field investigation was conducted on June 24, 2026, to verify existing site conditions and confirm that the delineated wetland boundaries and aquatic resources remain representative of current conditions.

Based on the desktop review and field verification, Passero Associates has determined that the findings and delineation presented in the 2023 BME Wetland Delineation Report remain accurate and representative of existing site conditions. Field observations made during the June 24, 2026 site investigation were consistent with those documented during the original delineation, and no changes were identified that would warrant revisions to the previously established wetland or stream boundaries. Therefore, the existing wetland delineation can continue to be relied upon for project planning and permitting.

Recent desktop review also supports the drainage patterns documented in the 2023 delineation. Historical aerial imagery, topographic mapping (**Exhibit A**), and publicly available environmental mapping indicate that the drainage system originates near the New York State Thruway (I-90) and consists of a connected wetland and stream complex. Within the project area, this system was delineated as alternating segments of Wetland A and Stream A in accordance with standard delineation practices. Field observations confirmed that Stream A continues beneath NY-5S through a culvert and extends beyond the project limits. While BME concluded that the stream ultimately flows toward the Mohawk River, the available topographic mapping does not independently confirm a continuous downstream connection beyond the project area. Accordingly, confirmation from the U.S. Army Corps of Engineers (USACE) is appropriate to determine whether the observed drainage network satisfies the current federal jurisdictional criteria.

During the June 24, 2026 field investigation, a large culvert (see **Figure 1** below) was identified at the northern project boundary where Stream A passes beneath NY-5S. The culvert conveys the stream beneath the roadway and off-site. While the downstream channel could not be field verified because it is located on property outside of the project ownership, the culvert and what can be noted from the project area demonstrates that the stream continues beyond the project limits rather than terminating at the roadway.

Figure 1: *Culvert located at the northern project boundary where Stream A passes beneath NY-5S*



While the downstream area could not be delineated because it is located on property outside of the project ownership, the culvert and observable wetland vegetation on the other side of NY-5S indicate that Stream A continues beyond the project limits rather than terminating at the roadway. As a result, the stream and associated wetland complex appear to extend beyond the project area, increasing the potential for USACE jurisdiction.

Under the current federal regulatory framework following the U.S. Supreme Court's decision in *Sackett v. EPA*, wetlands are generally considered jurisdictional only where they maintain a continuous surface connection to a relatively permanent jurisdictional water, such that it is difficult to distinguish where the water ends and the wetland begins. Recent guidance issued jointly by the U.S. Environmental Protection Agency (EPA) and the USACE further clarifies that discrete features such as culverts, pipes, ditches, and swales do not, by themselves, establish the required continuous surface connection.

While the observed drainage pattern and downstream conveyance warrant additional evaluation, the presence of the culvert alone is not sufficient to determine federal jurisdiction. A jurisdictional determination

by the USACE is therefore the most appropriate means of confirming whether the aquatic resources on the project site are subject to federal regulation.

To provide regulatory certainty before advancing the project, Passero Associates will proceed with submitting a Preliminary Jurisdictional Determination (PJD) request to the USACE, as included in the current project scope. The field verification completed on June 24, 2026 confirmed that the existing wetland delineation remains representative of current site conditions, allowing the PJD to be submitted with confidence. A PJD is generally processed faster than an Approved Jurisdictional Determination (AJD) and should provide timely confirmation regarding whether the aquatic resources are subject to federal jurisdiction. If USACE determines that a permit is required, we will be well positioned to proceed with the federal permitting process and will coordinate the next steps with the project team.

In the meantime, we will continue to await the New York State Department of Environmental Conservation's (NYSDEC) response to the Parcel Jurisdictional Determination request submitted on June 18, 2026. Recent changes to New York's freshwater wetlands regulations, followed by the annulment of the expanded jurisdictional provisions, have resulted in NYSDEC returning to its previous jurisdictional framework while additional regulatory guidance continues to develop. Under the current framework, NYSDEC generally regulates previously mapped wetlands, wetlands equal to or greater than 12.4 acres (5 hectares), and qualifying wetland complexes (previously mapped wetlands) connected by 50 meters or less or surface water that collectively meets the jurisdictional size threshold.

Based on our review, there are no previously mapped NYSDEC freshwater wetlands within the project area, and the delineated wetlands identified on the site are well below the current jurisdictional size threshold. As such, it is our opinion that the delineated wetlands are unlikely to be regulated by NYSDEC under the current framework. The Parcel Jurisdictional Determination will provide formal confirmation of this conclusion, and we will continue to keep you informed as agency feedback is received and coordinate the next steps accordingly.

Attachments

- Exhibit A – Topographic Drainage Map Illustrating the Project Drainage Network
- Exhibit B – BME Associates *Federal Wetland Delineation Report for Solar Liberty – Amsterdam* (October 2023)

If you have any questions or require additional information, please contact me at ckremer@passero.com or (585) 760-8501.

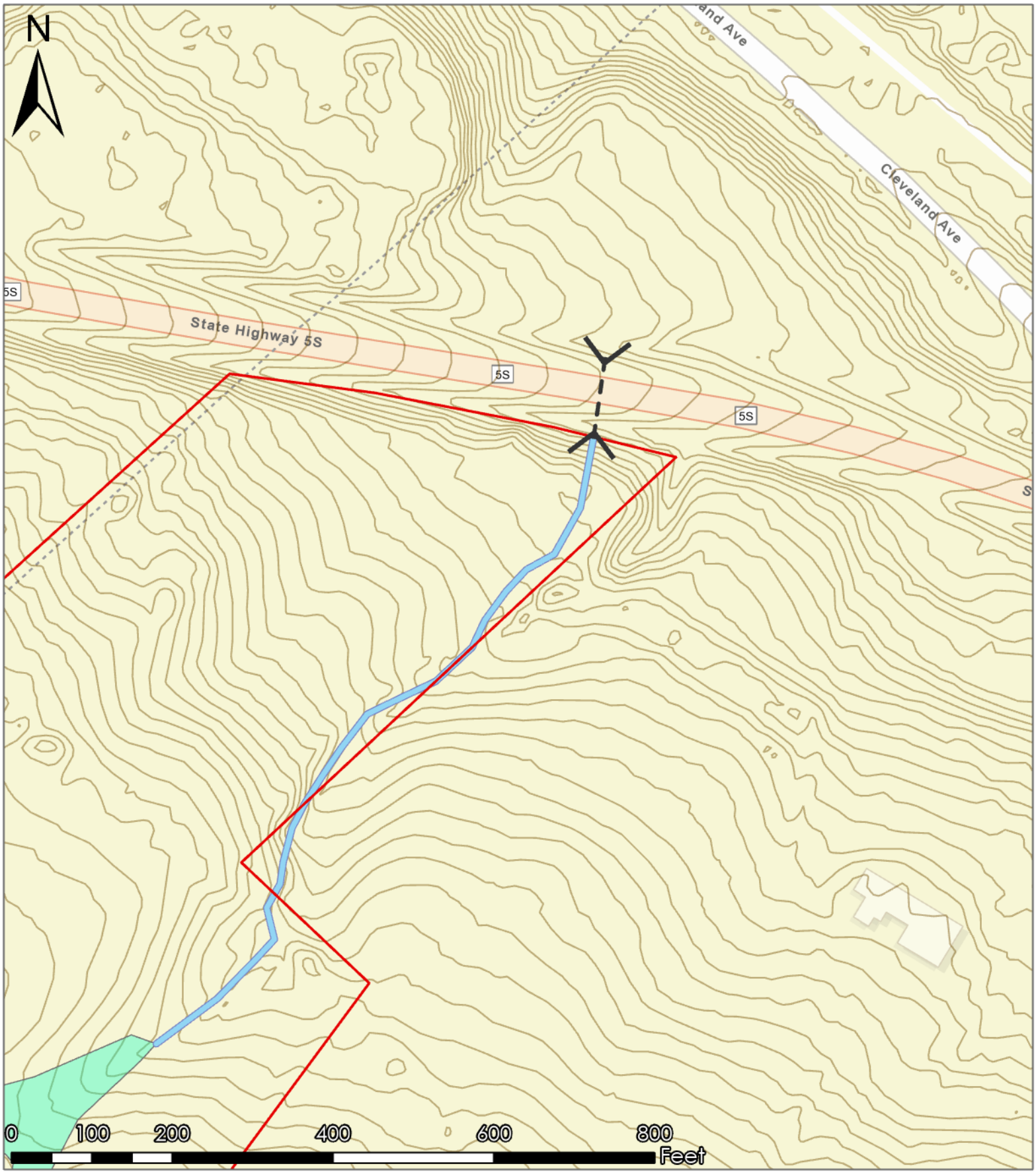
Thank you for your consideration of our comment.

Sincerely,

Carly Kremer

Carly Kremer
Environmental Scientist
585-760-8501
ckremer@passero.com

Exhibit A



Legend

- Culvert
- BME Delineated Stream A
- 2 ft. Contour
- BME Delineated Wetland A
- Project Parcel

Topography Map

Maps created by: Passero Associates GIS, CK
CRS: NAD83 State Plane New York East
Municipality: Town of Florida
Source: NYS GIS Clearinghouse Data

PASSERO
architecture engineering

Service Credits:

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community

Date: 6/25/2026

Exhibit B

Federal Wetland Delineation Report

for

Solar Liberty - Amsterdam

Town of Florida Montgomery County New York

Prepared for:

Passero Associates
242 W Main St Apartment 100
Rochester, NY 14614

Client: Shauncy Maloy

Landowner: Solar Energy Partners

Prepared by:

BME ASSOCIATES
ENGINEERS • SURVEYORS • LANDSCAPE ARCHITECTS

10 Liftbridge Lane East
Fairport, NY 14450
(585) 377-7360

BME Project No. 2089-139

October 2023

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Exhibit 2 – USGS Quadrangle
Exhibit 3 – USFWS National Wetlands Inventory
Exhibit 4 – NYSDEC Environmental Resource Mapper
Exhibit 5 – NRCS Soil Survey
Exhibit 6 – Aerial Wetland Delineation Map
Exhibit 7 – Photo Location Map

Appendix B Site Photographs

Appendix C Data Forms

INTRODUCTION

Passero Associates contracted BME Associates (BME) to examine and delineate wetlands on a ± 49.5-acre area of interest located south of NY-5S, and west of Thayer Rd in the Town of Florida, Montgomery County, New York (Appendix A, Exhibit 1). The site includes tax parcel number 56.-3-7. The proposed development for the site will be for the construction of a solar array which will not be federally funded under the Bipartisan Infrastructure Law. **A combined Approved and Preliminary Jurisdictional Determination is requested for the subject site.**

The presence and location of wetlands and streams were determined using methods established in the 1987 *Corps of Engineers Wetland Delineation Manual*, *2012 Northeast Regional Supplement*, *2018 Field Indicators of Hydric Soils in the United States,* and other appropriate guidelines. The results of the delineation study are contained in this report.

AGENCY RESOURCE INFORMATION

Prior to initiating the field wetland delineation study, BME reviewed the following background information:

- GIS Aerial Photo of the Site (Exhibit 1) – The site consists of undeveloped land characterized as natural forest cover, successional shrubland, and active agricultural fields. Surrounding land use is mainly agricultural, commercial, and residential.

- The U.S. Geological Survey (USGS) Amsterdam Quadrangle 7.5-minute topographic series was used to determine possible drainage patterns and the presence of streams and other water bodies (Exhibit 2). The USGS map indicates the site is sloped in the north/northeastern direction. The USGS topographic map does not show any wetland symbols within the area of interest. However, a stream is shown just outside of the western edge of the area of interest which flows north into the Mohawk River.

- The U.S. Fish and Wildlife Service National Wetlands Inventory (NWI) map was used to locate any mapped Federal wetlands or streams on the site (Exhibit 3). The NWI map shows a portion of an intermittent stream classified as R4SBC on the southwestern edge of the area of interest which flows north into the Mohawk River.

- The New York State Department of Environmental Conservation (NYSDEC) Environmental Resource Mapper was used to determine the presence of any mapped NYSDEC wetlands or streams on the project site (Exhibit 4). The resource mapper shows a Class C stream just outside of the western edge of the area of interest which flows north into the Mohawk River.
- The Natural Resource Conservation Service Web Soil Survey was used to locate any hydric soils, or soils with potential hydric inclusions within the project site (Exhibit 5). The soils map indicates the presence of the following soils within the AOI (Area of Interest):

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
AnB	Angola silt loam, 3 to 8 percent slopes	10	0.6	0.5%
CFL	Cut and fill land	10	22.8	20.5%
DaB	Darien silt loam, 3 to 8 percent slopes	10	43.6	39.2%
DaC	Darien silt loam, 8 to 15 percent slopes	5	10.3	9.2%
IlA	Ilion silt loam, 0 to 3 percent slopes	90	5.8	5.3%
LaC	Lansing silt loam, 8 to 15 percent slopes	0	17.2	15.5%
LMF	Lansing and Mohawk soils, 25 to 60 percent slopes	0	6.4	5.7%
PaB	Palatine silt loam, 3 to 8 percent slopes	0	3.0	2.7%
PaD	Palatine silt loam, 15 to 25 percent slopes	0	1.6	1.4%
Totals for Area of Interest			**111.2**	**100.0%**

METHODOLOGY

BME conducted the federal wetland delineation for the site according to methods described in the 1987 *U.S. Army Corps of Engineers Wetlands Delineation Manual*, and the *2012 North Central and Northeast Region Supplement*. Atypical Situation methods were not utilized. The *2018 U.S. Army Corps of Engineers, National Wetland Plant List* was utilized for wetland indicator status while the *USDA, NRCS Field Indicators of Hydric Soils in the United States* was utilized for hydric soil identification. A general survey of the site was conducted to determine the presence of waters of the U.S. and potential wetland areas. Where potential wetlands were found, pairs of sample points were established to document soil and hydrological conditions in both the upland and wetland communities. A pair of sample points were taken at the wetlands, along with

additional upland sampling points to support the location and extent of any wetlands. Site hydrology was evaluated by looking for and noting wetland hydrology indicators. Soils were evaluated by comparing soils taken from the sample sites with the *Munsell Soil Color Charts* (X-Rite Incorporated, Revised 2009), as well as evaluating additional hydric soil indicators. Soils were tested along wetland boundaries to aid in determining accurate wetland limits.

At each data sampling location, a list of dominant plants was documented and the percent cover for each species was estimated. Generally, a 5-foot radius from the sampling point was used to define herbaceous plants within the plant community, a 30-foot radius was used to define trees and woody vines, and a 15-foot radius to define shrubs and saplings. The "dominance measure methods" outlined in the *1987 Federal Delineation Manual* (Federal Interagency Committee for Wetland Delineation 1987) and the *2012 Northcentral and Northeast Region Supplement* were used to determine the presence of wetland vegetation while the *2018 U.S. Army Corps of Engineers National Wetland Plant List* was utilized for plant identification and determination of wetland plant indicator status.

Sample point locations and wetland boundaries were marked in the field by flags for identification by GPS equipment. The field survey of wetland points was completed by BME Associates. All delineated wetland boundaries and sample point locations are shown in Exhibit 6, and site photograph locations are shown in Exhibit 7 in Appendix A. Site photographs can be found in Appendix B, and data forms can be found in Appendix C.

SITE ECOLOGY

General upland plant communities on the site include forests (successional northern hardwood forest), successional shrubland, and active cropland/field crops. The wetland plant communities consist of emergent wetlands (shallow emergent marsh), and Phragmites marsh.

Successional Northern Hardwood Forest

The forested areas on-site are dominated primarily by successional trees, saplings, and shrubs with some understory herbs. Common tree species within these areas include white pine (*Pinus strobus*), white ash (*Fraxinus americana*), black cherry (*Prunus serotina*), black locust (*Robinia pseudoacacia*), and box elder (*Acer negundo*). The understory shrubs and herbs include multiflora rose (*Rosa multiflora*), honeysuckles (*Lonicera spp.*), white avens (*Geum canadense*), Canada goldenrod (*Solidago canadensis*), garlic mustard (*Alliaria petiolata*), and dandelion (*Taraxacum officinale*).

Successional Shrubland

Shrubby upland areas on site are dominated by dense upland shrubs with few grasses and forbs in the herbaceous layer. Common shrub species within these areas include honeysuckles (*Lonicera spp.*) and multiflora rose (*Rosa multiflora*). Grasses and forbs that dominate these areas are sparse due to the dense shrub cover. Herbaceous species observed in these areas include creeping buttercup (*Ranunculus repens*), white avens (*Geum canadense*), and dandelion (*Taraxacum officinale*).

Cropland/Field Crops

The open field areas on site are active hayfields dominated by grasses and forbs which are cultivated for feeding livestock. Species that dominate these areas include timothy grass (*Phleum pratense*), orchard grass (*Dactylis glomerata*), alfalfa (*Medicago sativa*), white heath aster (*Symphyotrichum ericoides*), red clover (*Trifolium pratense*), and dandelion (*Taraxacum officinale*).

Phragmites Marsh

Some emergent wetland areas on site are dominated primarily by common reed (*Phragmites australis*) as well as some other invasive species including narrow-leaf cattail (*Typha angustifolia*), purple loosestrife (*Lythrum salicaria*), and reed canary grass (*Phalaris arundinacea*).

Shallow Emergent Marsh

Wetland B can be best characterized as a shallow emergent marsh. This wetland is vegetated with a variety of species including purple loosestrife (*Lythrum salicaria*), reed canary grass (*Phalaris arundinacea*), grass-leaved goldenrod (*Euthamia graminifolia*), common rush *(Juncus effusus*), Torrey's rush (*Juncus torreyi*), dark-green bulrush (*Scirpus atrovirens*), and sedges (*Carex spp.*).

WATER RESOURCE DESCRIPTIONS

The site includes two (2) delineated wetlands, (2) streams, and one (1) swale (see Exhibit 6).

Table 1. Water Resource Summary

Name	Identification	Size (within site)	OHWM Dimensions	Flow Regime	Latitude and Longitude
Wetland A	PEM	0.93 AC	-	-	42.922505, -74.188976
Wetland B	PEM	0.07 AC	-	-	42.924749, -74.184357
Stream A	-	± 840 LF	± 3-5' wide, ± 1-3' deep	Intermittent	42.923819, -74.186751
Stream B	-	± 285 LF	± 3-6' wide, ± 1-4' deep	Intermittent	42.922703, -74.190449
Swale A	-	± 95 LF	± 1-2' wide, ±6-8" deep	Ephemeral	42.923277, -74.182881

SITE WETLANDS:

Wetland A (Area = ± 0.93 AC)

Most of Wetland A is in the southwestern portion of the site. The soils in this wetland are mapped as Darien silt loam, 3 to 8 percent slopes, with a hydric rating of 10, as well as Darien silt loam, 8 to 15 percent slopes, with a hydric rating of 5. The dominant vegetation in this wetland includes common reed (*Phragmites australis*), narrow-leaf cattail (*Typha angustifolia*), purple loosestrife (*Lythrum salicaria*), and reed canary grass (*Phalaris arundinacea*). There was saturation noted throughout Wetland A at times of the site visit. The hydrology of this wetland originates from surface runoff of surrounding upland areas. Water from this wetland flows northeast into Stream A before eventually flowing off-site into the Mohawk River. Based on field observations, this wetland appears to have a connection to other jurisdictional waters and therefore may be jurisdictional, subject to USACE final determination.

Wetland B (Area = ± 0.07 AC)

Wetland B is an emergent wetland pocket located in the northeastern portion of the area of interest. The soils in this wetland are mapped as Lansing silt loam, 8 to 15 percent slopes, with a hydric rating of 0, as well as Cut and fill land, with a hydric rating of 10. There was saturation noted throughout Wetland B during the site visit. Wetland B appears to collect runoff from surrounding upland areas. The dominant vegetation in this wetland includes purple loosestrife (*Lythrum salicaria*), reed canary grass (*Phalaris arundinacea*), grass-leaved goldenrod (*Euthamia graminifolia*), common rush (*Juncus effusus*), Torrey's rush (*Juncus torreyi*), dark-green bulrush (*Scirpus atrovirens*), and sedges (*Carex spp*.). This wetland appears to lack any connection to any other jurisdictional water and therefore may not be jurisdictional, subject to USACE final determination.

SITE STREAMS:

Stream A (±840 LF)

Stream A originates at the outlet of Wetland A and flows northeast through a portion of Wetland A before flowing off-site into the Mohawk River. Stream A has a naturally defined bed and bank and exhibits an intermittent flow regime as it appears to flow semi-regularly following precipitation events. The ordinary high-water mark (OHWM) of Stream A varies in dimension from ±3-5' wide to ± 1-3' deep.

Stream B (± 285 LF)

Stream B is ± 285 LF and flows north in a sinuous manner through the southwestern corner of the area of interest. This stream is likely intermittent, as it appears to primarily flow following precipitation events. Stream B appears to receive both groundwater as well as runoff from surrounding upland areas. This stream flows north where it connects to a larger tributary which flows into the Mohawk River. The OHWM of Stream B varies in dimension from ±3-6' wide to ± 1-4' deep.

Swale A (±95 LF)

Swale A is in the eastern portion of the area of interest. This swale appears to be a natural feature ±95 LF and ±1-2' wide. No defined bed and bank are present but overland flow was observed

conveying runoff from one upland area to another upland area. This swale can be characterized as ephemeral as it appears to flow seasonally. This swale is vegetated with wetland species in some areas but does not display any hydric soil indicators. Swale A appears to lack any connection to any other jurisdictional water and therefore may not be jurisdictional, subject to USACE final determination.

CONCLUSIONS

Within the area of interest, two (2) wetlands were identified, and field delineated by BME Associates based on the presence of all three parameters for federal jurisdictional wetlands (Appendix A, Exhibit 6). Furthermore, two (2) streams and one (1) swale were observed, and their flow regimes evaluated. Based on our field observations, Wetland B and Swale A appear to lack a continuous surface connection to any other jurisdictional waters and may be non-jurisdictional, subject to USACE final determination. On behalf of Shauncy Maloy and Passero Associates, BME Associates is requesting a combined Approved and Preliminary Jurisdictional Determination for the subject site.

REFERENCES

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BME Wetland Field Delineators

Abigail Ludgate

APPENDIX A
Exhibits 1 – 7

Exhibit 1 – **Aerial Site Location Map**

Exhibit 2 – **USGS Quadrangle**

Exhibit 3 – **USFWS National Wetlands Inventory**

Exhibit 4 – **NYSDEC Environmental Resource Mapper**

Exhibit 5 – **NRCS Soil Survey**

Exhibit 6 – **Aerial Wetland Delineation Map**

Exhibits 7 – **Photo Location Map**



Site Boundary

400 0 200 400 800

Graphic Scale

Date: 09/21/2023 Project #: 2089-139

BME ASSOCIATES

Solar Liberty Amsterdam

Aerial Location Map

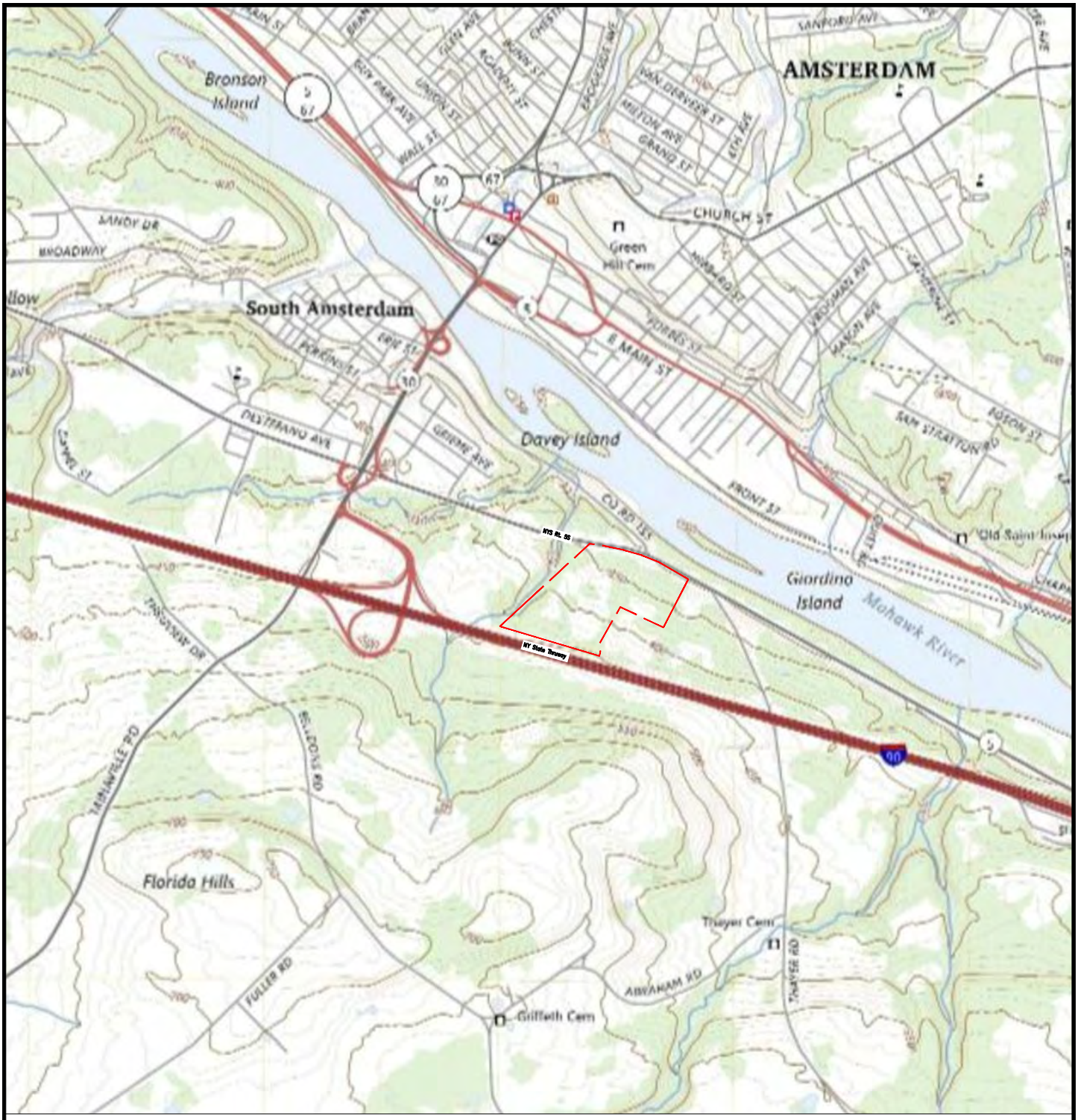
Town of Florida, Montgomery County, New York

P:\2089-139\Drawings\Prelim\2089-139 Wetland Exhibits Base.dwg

N

Scale: 1"=400'

Exhibit 1



Site Boundary

2000 0 1000 2000 4000

Graphic Scale

Date: 09/21/2023 Project #: 2089-139

BME ASSOCIATES

Solar Liberty Amsterdam

USGS Quadrangle (Amsterdam Quad)

Town of Florida, Montgomery County, New York

P:\2089-139\Drawings\Prelim\2089-139 Wetland Exhibits Base.dwg

N

Scale: 1"=2000'

Exhibit 2



Site Boundary

1000 0 500 1000 2000

Graphic Scale

Date: 09/21/2023 Project #: 2089-139

BME ASSOCIATES

Solar Liberty Amsterdam

USFWS National Wetlands Inventory

Town of Florida, Montgomery County, New York

P:\2089-139\Drawings\Prelim\2089-139 Wetland Exhibits Base.dwg

N

Scale: 1"=1000'

EXHIBIT 3



Site Boundary

1000 0 500 1000 2000

Graphic Scale

Date: 09/21/2023 Project #: 2089-139

BME ASSOCIATES

Solar Liberty Amsterdam

NYSDEC Environmental Resource Mapper

Town of Florida, Montgomery County, New York

P:\2089-139\Drawings\Prelim\2089-139 Wetland Exhibits Base.dwg

N

Scale: 1"=1000'

EXHIBIT 4



Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CFL	Cut and fill land	10	4.9	9.9%
DaB	Darien silt loam, 3 to 8 percent slopes	10	17.0	34.3%
DaC	Darien silt loam, 8 to 15 percent slopes	5	10.3	20.8%
LaC	Lansing silt loam, 8 to 15 percent slopes	0	14.4	29.1%
LMF	Lansing and Mohawk soils, 25 to 60 percent slopes	0	2.8	5.7%
PaB	Palatine silt loam, 3 to 8 percent slopes	0	0.1	0.1%
Totals for Area of Interest			**49.5**	**100.0%**

Soil Rating Polygons

- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

400 0 200 400 800

Graphic Scale

Site Boundary

Date: 09/21/2023 Project #: 2089-139

BME ASSOCIATES

Solar Liberty Amsterdam

NRCS Web Soil Survey

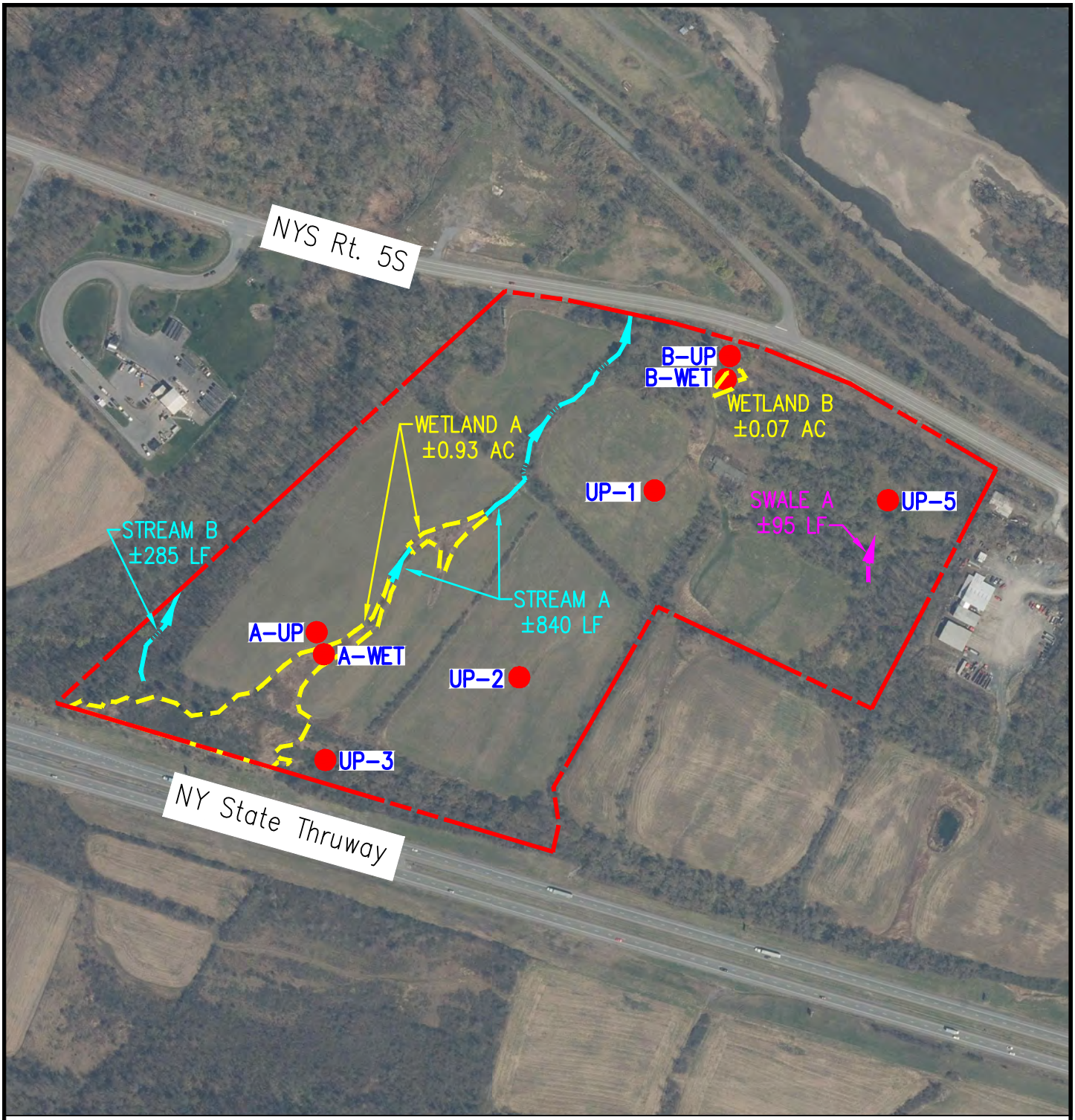
Town of Florida, Montgomery County, New York

P:\2089-139\Drawings\Prelim\2089-139 Wetland Exhibits Base.dwg

N

Scale: 1"=400'

EXHIBIT 5



Site Boundary

Intermittent Stream

Delineated Wetland

Ephemeral Swale

UP-1 Data Sampling Point

400 0 200 400 800

Graphic Scale

Date: 10/16/2023

Project #: 2089-139

BME ASSOCIATES

Solar Liberty Amsterdam

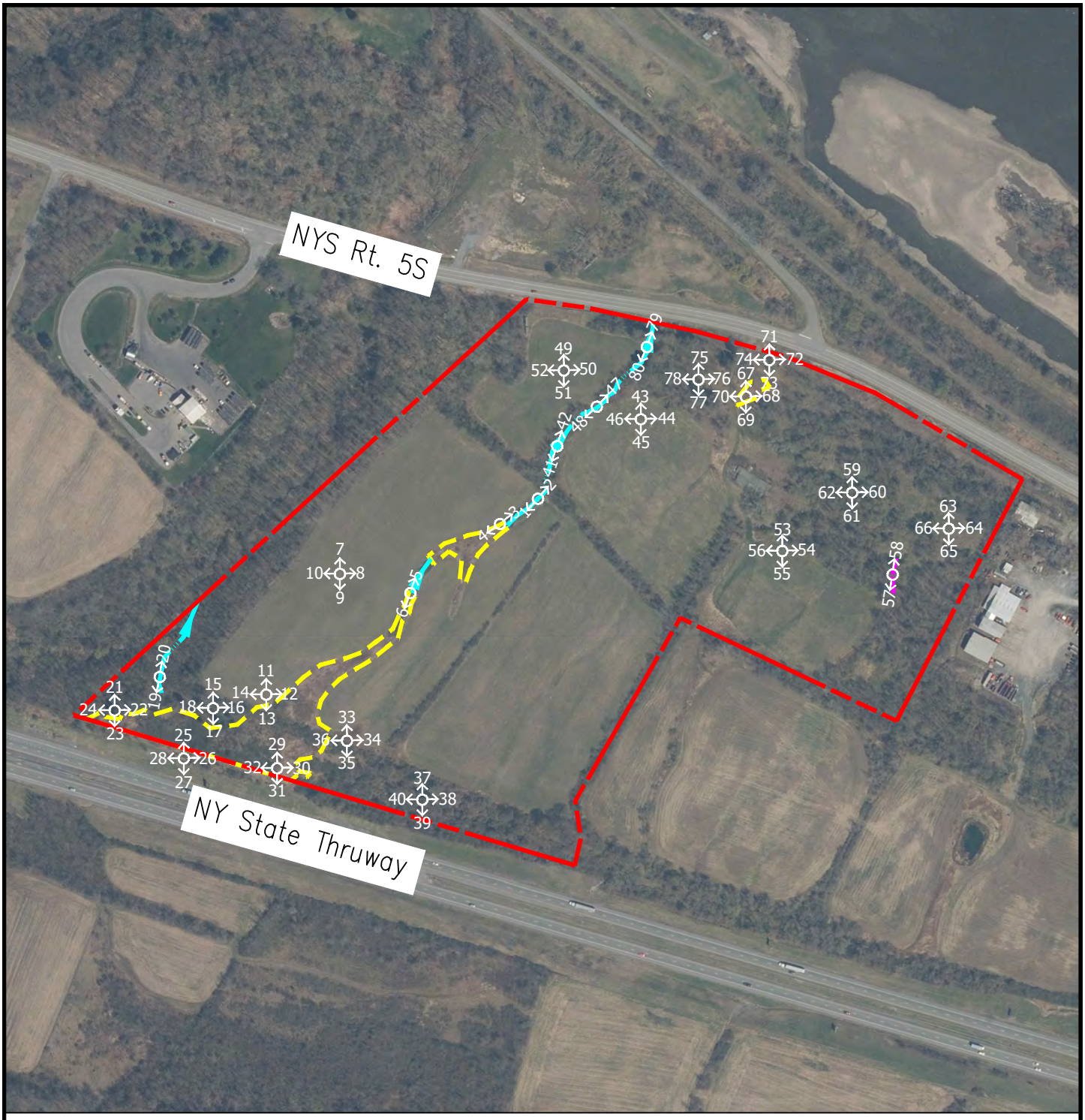
Aerial Wetland Delineation

Town of Florida, Montgomery County, New York

P:\2089-139\Drawings\Prelim\2089-139 Wetland Exhibits Base.dwg

Scale: 1"= 400'

Exhibit 6



Date: 09/21/2023 Project #: 2089-139

BME ASSOCIATES

Solar Liberty Amsterdam

Photo Location Map

Town of Florida, Montgomery County, New York

P:\2089-139\Drawings\Prelim\2089-139 Wetland Exhibits Base.dwg

Scale: 1"=600'

EXHIBIT 7

APPENDIX B
Site Photographs

Amsterdam Site Photos



Photo 1: Stream A, facing southwest.



Photo 2: Stream A, facing northeast.

Amsterdam Site Photos



Photo 3: Stream A, facing northeast.



Photo 4: Stream A, facing southwest into Wetland A.

Amsterdam Site Photos



Photo 5: Stream A, facing north.



Photo 6: Stream A, facing south.

Amsterdam Site Photos



Photo 7: Upland, facing north.



Photo 8: Upland, facing east.

Amsterdam Site Photos



Photo 9: Upland, facing south.



Photo 10: Upland, facing west.

Amsterdam Site Photos



Photo 11: Upland, facing north.



Photo 12: Upland, facing east.

Amsterdam Site Photos



Photo 13: Upland, facing south.



Photo 14: Upland, facing west.

Amsterdam Site Photos



Photo 15: Upland, facing north.



Photo 16: Upland, facing east.

Amsterdam Site Photos



Photo 17: Upland, facing south.



Photo 18: Upland, facing west.

Amsterdam Site Photos



Photo 19: Stream B, facing south.



Photo 20: Stream B, facing north.

Amsterdam Site Photos



Photo 21: Upland, facing north.



Photo 22: Upland, facing east.

Amsterdam Site Photos



Photo 23: Upland, facing south.



Photo 24: Upland, facing west.

Amsterdam Site Photos



Photo 25: Upland, facing north.



Photo 26: Upland, facing east.

Amsterdam Site Photos



Photo 27: Upland, facing south.



Photo 28: Upland, facing west.

Amsterdam Site Photos



Photo 29: Wetland A, facing north.



Photo 30: Wetland A, facing east.

Amsterdam Site Photos



Photo 31: Wetland A, facing south.



Photo 32: Wetland A, facing west.

Amsterdam Site Photos



Photo 33: Upland, facing north.



Photo 34: Upland, facing east.

Amsterdam Site Photos



Photo 35: Upland, facing south.



Photo 36: Upland, facing west.

Amsterdam Site Photos



Photo 37: Upland, facing north.



Photo 38: Upland, facing east.

Amsterdam Site Photos



Photo 39: Upland, facing south.



Photo 40: Upland, facing west.

Amsterdam Site Photos



Photo 41: Stream A, facing south.



Photo 42: Stream A, facing north.

Amsterdam Site Photos



Photo 43: Upland, facing north.



Photo 44: Upland, facing east.

Amsterdam Site Photos



Photo 45: Upland, facing south.



Photo 46: Upland, facing west.

Amsterdam Site Photos



Photo 47: Stream A, facing northeast.



Photo 48: Stream A, facing southwest.

Amsterdam Site Photos



Photo 49: Upland, facing north.



Photo 50: Upland, facing east.

Amsterdam Site Photos



Photo 51: Upland, facing south.



Photo 52: Upland, facing west.

Amsterdam Site Photos



Photo 53: Upland, facing north.



Photo 54: Upland, facing east.

Amsterdam Site Photos



Photo 55: Upland, facing south.



Photo 56: Upland, facing west.

Amsterdam Site Photos



Photo 57: Swale A, facing south.



Photo 58: Swale A, facing north.

Amsterdam Site Photos



Photo 59: Upland, facing north.



Photo 60: Upland, facing east.

Amsterdam Site Photos



Photo 61: Upland, facing south.



Photo 62: Upland, facing west.

Amsterdam Site Photos



Photo 63: Upland, facing north.



Photo 64: Upland, facing east.

Amsterdam Site Photos



Photo 65: Upland, facing south.



Photo 66: Upland, facing west.

Amsterdam Site Photos



Photo 67: Wetland B, facing north.



Photo 68: Wetland B, facing east.

Amsterdam Site Photos



Photo 69: Wetland B, facing south.



Photo 70: Wetland B, facing west.

Amsterdam Site Photos



Photo 71: Upland, facing north.



Photo 72: Upland, facing east.

Amsterdam Site Photos



Photo 73: Upland, facing south.



Photo 74: Upland, facing west.

Amsterdam Site Photos



Photo 75: Upland, facing north.



Photo 76: Upland, facing east.

Amsterdam Site Photos



Photo 77: Upland, facing south.



Photo 78: Upland, facing west.

Amsterdam Site Photos



Photo 79: Stream A, facing north.



Photo 80: Stream A, facing south.

APPENDIX C
Data Forms

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Amsterdam Site City/County: Town of Florida/ Montgomery Sampling Date: 10/10/23

Applicant/Owner: Shauncy Maloy State: NY Sampling Point: AUP

Investigator(s): AL Section, Township, Range:

Landform (hillside, terrace, etc.): N/A Local relief (concave, convex, none): Convex Slope %: 5

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: 42.922733 Long: -74.188845 Datum: NAD83

Soil Map Unit Name: DaC NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: AUP

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Herb Stratum (Plot size: 5')			
1. *Phleum pratense*	40	Yes	FACU
2. *Dactylis glomerata*	25	Yes	FACU
3. *Medicago sativa*	15	No	UPL
4. *Symphyotrichum ericoides*	10	No	FACU
5. *Euthamia graminifolia*	8	No	FAC
6. *Trifolium pratense*	3	No	FACU
7. *Taraxacum officinale*	2	No	FACU
8.			
9.			
10.			
11.			
12.			
	103 =Total Cover		
Woody Vine Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	8	x 3 =	24
FACU species	80	x 4 =	320
UPL species	15	x 5 =	75
Column Totals:	103 (A)		419 (B)

Prevalence Index = B/A = 4.07

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point AUP

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-18	10YR 4/2	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ____ **No** X

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Amsterdam Site City/County: Town of Florida/ Montgomery Sampling Date: 10/10/23

Applicant/Owner: Shauncy Maloy State: NY Sampling Point: AWET

Investigator(s): AL Section, Township, Range:

Landform (hillside, terrace, etc.): N/A Local relief (concave, convex, none): Concave Slope %: 2

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: 42.922662 Long: -74.188773 Datum: NAD83

Soil Map Unit Name: DaC NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area**
Hydric Soil Present?	Yes X	No ____	**within a Wetland?** **Yes** X **No** ____
Wetland Hydrology Present?	Yes X	No ____	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): 0

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: AWET

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Herb Stratum (Plot size: 5')			
1. *Phragmites australis*	60	Yes	FACW
2. *Typha angustifolia*	20	No	OBL
3. *Lythrum salicaria*	15	No	OBL
4. *Phalaris arundinacea*	10	No	FACW
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	105 =Total Cover		
Woody Vine Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	35	x 1 =	35
FACW species	70	x 2 =	140
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	105 (A)		175 (B)

Prevalence Index = B/A = 1.67

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point AWET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3	10YR 3/2	100					Loamy/Clayey	
3-18	10YR 3/2	95	5YR 5/8	5	C	M	Mucky Loam/Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- X Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- X Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ? Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Amsterdam Site City/County: Town of Florida/ Montgomery Sampling Date: 10/10/23

Applicant/Owner: Shauncy Maloy State: NY Sampling Point: BUP

Investigator(s): AL Section, Township, Range:

Landform (hillside, terrace, etc.): N/A Local relief (concave, convex, none): none Slope %: 4

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: 42.924942 Long: -74.184227 Datum: NAD83

Soil Map Unit Name: CFL NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: BUP

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Robinia pseudoacacia*	35	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
	35	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15')			
1. *Robinia pseudoacacia*	20	Yes	FACU
2. *Acer negundo*	15	Yes	FAC
3. *Rosa multiflora*	20	Yes	FACU
4.			
5.			
6.			
7.			
	55	=Total Cover	
Herb Stratum (Plot size: 5')			
1. *Solidago canadensis*	65	Yes	FACU
2. *Alliaria petiolata*	25	Yes	FACU
3. *Tussilago farfara*	15	No	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	105	=Total Cover	
Woody Vine Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 16.7% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	15	x 3 =	45
FACU species	180	x 4 =	720
UPL species	0	x 5 =	0
Column Totals:	195 (A)		765 (B)

Prevalence Index = B/A = 3.92

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point BUP

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-18	10YR 3/3	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ____ **No** X

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Amsterdam Site City/County: Town of Florida/ Montgomery Sampling Date: 10/10/23

Applicant/Owner: Shauncy Maloy State: NY Sampling Point: BWET

Investigator(s): AL Section, Township, Range:

Landform (hillside, terrace, etc.): N/A Local relief (concave, convex, none): Concave Slope %: 3

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: 42.924750 Long: -74.184362 Datum: NAD83

Soil Map Unit Name: LaC/ CFL NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area**
Hydric Soil Present?	Yes X	No ____	**within a Wetland?** **Yes** X **No** ____
Wetland Hydrology Present?	Yes X	No ____	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): 0

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: BWET

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Robinia pseudoacacia*	15	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
	15	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15')			
1. *Robinia pseudoacacia*	5	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
	5	=Total Cover	
Herb Stratum (Plot size: 5')			
1. *Lythrum salicaria*	25	Yes	OBL
2. *Juncus torreyi*	10	No	FACW
3. *Euthamia graminifolia*	20	Yes	FAC
4. *Scirpus atrovirens*	15	No	OBL
5. *Juncus effusus*	20	Yes	OBL
6. *Phalaris arundinacea*	10	No	FACW
7. *Carex comosa*	15	No	OBL
8.			
9.			
10.			
11.			
12.			
	115	=Total Cover	
Woody Vine Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	75	x 1 =	75
FACW species	20	x 2 =	40
FAC species	20	x 3 =	60
FACU species	20	x 4 =	80
UPL species	0	x 5 =	0
Column Totals:	135 (A)		255 (B)

Prevalence Index = B/A = 1.89

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: BWET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/3	100					Loamy/Clayey	
4-18	10YR 4/2	97	10YR 5/8	3	C	M	Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ? Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Amsterdam Site City/County: Town of Florida/ Montgomery Sampling Date: 10/10/23

Applicant/Owner: Shauncy Maloy State: NY Sampling Point: UP1

Investigator(s): AL Section, Township, Range:

Landform (hillside, terrace, etc.): N/A Local relief (concave, convex, none): Convex Slope %: 6

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: 42.923819 Long: -74.185270 Datum: NAD83

Soil Map Unit Name: DaB NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: UP1

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Herb Stratum (Plot size: 5')			
1. *Phleum pratense*	45	Yes	FACU
2. *Dactylis glomerata*	20	Yes	FACU
3. *Medicago sativa*	20	Yes	UPL
4. *Symphyotrichum ericoides*	5	No	FACU
5. *Euthamia graminifolia*	15	No	FAC
6. *Trifolium pratense*	5	No	FACU
7.			
8.			
9.			
10.			
11.			
12.			
	110 =Total Cover		
Woody Vine Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	15	x 3 =	45
FACU species	75	x 4 =	300
UPL species	20	x 5 =	100
Column Totals:	110 (A)		445 (B)

Prevalence Index = B/A = 4.05

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: UP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-18	10YR 4/2	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Amsterdam Site City/County: Town of Florida/ Montgomery Sampling Date: 10/10/23

Applicant/Owner: Shauncy Maloy State: NY Sampling Point: UP2

Investigator(s): AL Section, Township, Range:

Landform (hillside, terrace, etc.): N/A Local relief (concave, convex, none): Convex Slope %: 4

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: 42.922448 Long: -74.186681 Datum: NAD83

Soil Map Unit Name: DaC NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: UP2

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Herb Stratum (Plot size: 5')			
1. *Phleum pratense*	55	Yes	FACU
2. *Dactylis glomerata*	10	No	FACU
3. *Medicago sativa*	20	Yes	UPL
4. *Symphyotrichum ericoides*	15	No	FACU
5. *Euthamia graminifolia*	10	No	FAC
6. *Taraxacum officinale*	3	No	FACU
7.			
8.			
9.			
10.			
11.			
12.			
	113 =Total Cover		
Woody Vine Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	10	x 3 =	30
FACU species	83	x 4 =	332
UPL species	20	x 5 =	100
Column Totals:	113 (A)		462 (B)

Prevalence Index = B/A = 4.09

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point UP2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-18	10YR 4/2	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Amsterdam Site City/County: Town of Florida/ Montgomery Sampling Date: 10/10/23

Applicant/Owner: Shauncy Maloy State: NY Sampling Point: UP3

Investigator(s): AL Section, Township, Range:

Landform (hillside, terrace, etc.): N/A Local relief (concave, convex, none): Convex Slope %: 6

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: 42.921788 Long: -74.188494 Datum: NAD83

Soil Map Unit Name: DaB NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: UP3

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1. *Lonicera morrowii*	95	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
	95 =Total Cover		
Herb Stratum (Plot size: 5')			
1. *Galium aparine*	10	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	10 =Total Cover		
Woody Vine Stratum (Plot size: 15')			
1. *Vitis riparia*	20	Yes	FAC
2.			
3.			
4.			
	20 =Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	20	x 3 =	60
FACU species	105	x 4 =	420
UPL species	0	x 5 =	0
Column Totals:	125 (A)		480 (B)

Prevalence Index = B/A = 3.84

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point UP3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-18	10YR 3/3	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ____ **No** X

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Amsterdam Site City/County: Town of Florida/ Montgomery Sampling Date: 10/10/23

Applicant/Owner: Shauncy Maloy State: NY Sampling Point: UP4

Investigator(s): AL Section, Township, Range:

Landform (hillside, terrace, etc.): N/A Local relief (concave, convex, none): none Slope %: 3

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: 42.923745 Long: -74.182666 Datum: NAD83

Soil Map Unit Name: CFL NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ? Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: UP4

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix nigra*	40	Yes	OBL
2. *Robinia pseudoacacia*	40	Yes	FACU
3. *Populus deltoides*	15	No	FAC
4.			
5.			
6.			
7.			
	95	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15')			
1. *Salix nigra*	15	Yes	OBL
2.			
3.			
4.			
5.			
6.			
7.			
	15	=Total Cover	
Herb Stratum (Plot size: 5')			
1. *Solidago canadensis*	65	Yes	FACU
2. *Phragmites australis*	30	Yes	FACW
3. *Symphyotrichum ericoides*	15	No	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	110	=Total Cover	
Woody Vine Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	55	x 1 =	55
FACW species	30	x 2 =	60
FAC species	15	x 3 =	45
FACU species	120	x 4 =	480
UPL species	0	x 5 =	0
Column Totals:	220 (A)		640 (B)

Prevalence Index = B/A = 2.91

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: UP4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 3/3	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Stony

Depth (inches): 8

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

Exhibit 8

February 6, 2025 OPRHP Determination of No Impact

New York State
Parks, Recreation and
Historic Preservation

KATHY HOCHUL
Governor

ERIK KULLESEID
Commissioner

February 6, 2024

Shauncy Maloy
Project Manager
Passero Associates
1824 Statesville Ave
Suite 103
Charlotte, NC 28206

Re: NYSERDA
Solar Liberty Amsterdam/2.5 MW/6 of 50 Acres
1247 State Route 5S, Amsterdam, NY 12010
23PR09889

Dear Shauncy Maloy:

Thank you for requesting the comments of the Division for Historic Preservation of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the submitted materials 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 Division for Historic Preservation 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.

OPRHP has reviewed the Phase I Archaeological Survey Report entitled “Phase I (IA and IB) Cultural Resource Investigations for the Proposed Solar Liberty Amsterdam Array Project (2.5 MW AC / 6 Acres of 50 Acre Parcel), Town of Florida, Montgomery County, New York” prepared by Powers Archaeology LLC (February 2024; 24SR00066). No archaeological sites were identified by the survey. Therefore, it is the opinion of the 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 you have any questions, I can be reached at Jessica.Vavrasek@parks.ny.gov.

Sincerely,

Jessica Vavrasek

Jessica Vavrasek
Scientist – Archaeology/NAGPRA

Exhibit 9

Visual Impact assessment

SEP Amsterdam City Visual Impact Assessment

Facility Description

The Facility will include ground-mounted, fixed-tilt solar panel arrays, concrete equipment pad, perimeter fencing. It will be secured within fence surrounding the solar panels and equipment and can be accessed via gates located off the proposed access route.

The Facility will include the following site features:

- ~ 4,998 PV Panels
- Area within fence- 8.62 Acres.
- Seven (7)-foot Agricultural Fence
- Underground conduit and wires
- One (1) Transformer Pad

The Facility will produce electricity delivered to National Grid's local distribution system utilizing existing lines within the facility's footprint. Interconnection to National Grid's system will include both underground and overhead wires along with new utility poles located on the Property.

The solar PV modules will be installed on fixed metal racking structures secured to the ground utilizing direct push/driven pile foundations. Direct Current (DC) wiring with the Facility will be secured behind the modules, collected at a common point and transition underground at the end of each PV row where wiring will be connected to inverters.

From the inverters, AC wiring will run underground until a point where it will be combined via an equipment and transformer pad. From this pad, AC wiring will continue to a series of utility poles on the Property with equipment necessary for connecting to National Grid's system.

Corporate Headquarters
6500 Sheridan Drive, Suite 120
Buffalo, NY 14221
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866.807.7882 Fax
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Visual Impact Assessment

Aerial Views: Aerial View of System location highlighted in Figure 1 below.

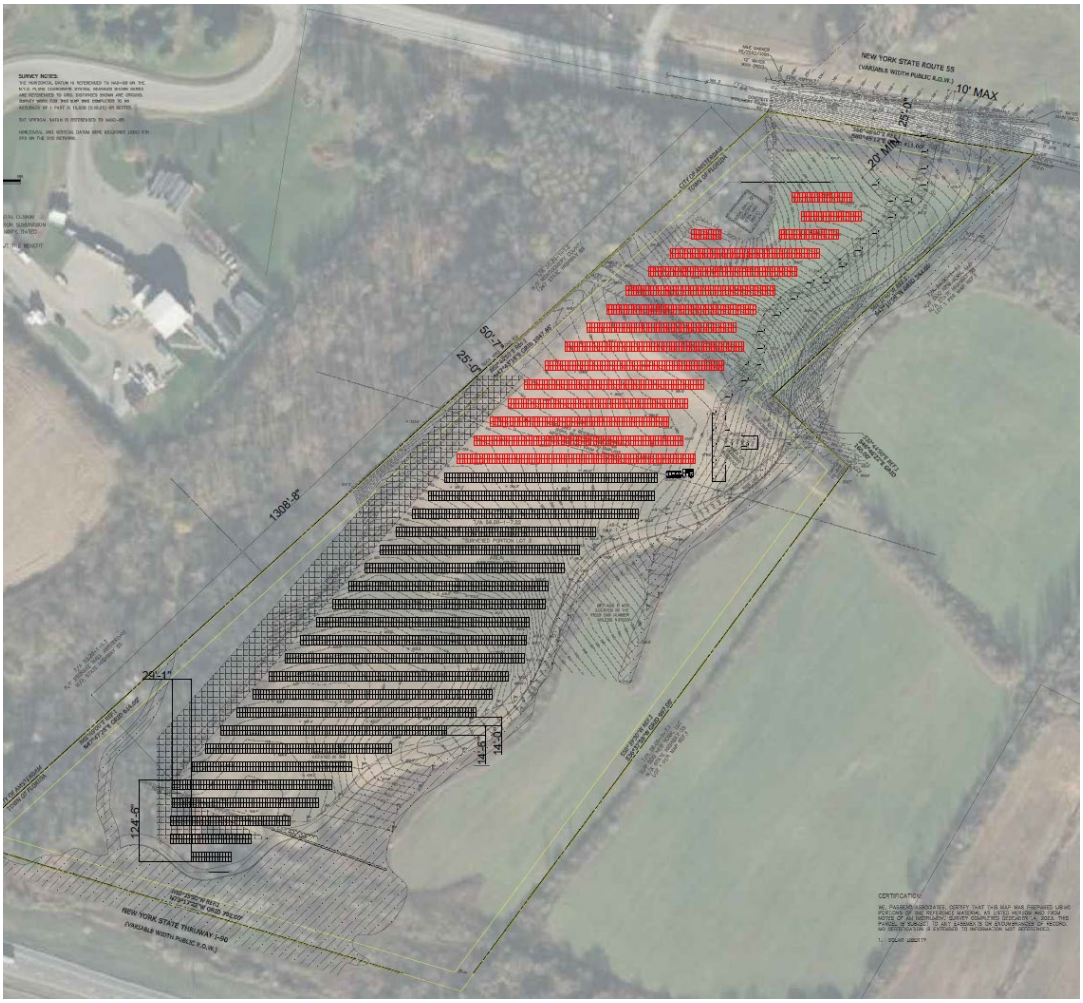


Figure 1: Aerial View

Solar Panels & Racking:

The project area has slopes ranging from 2 - 15%. Panels are facing south. Placing the panels in this manner uses the natural topography and existing vegetation to block the majority of views of the site from vantage points.

Solar panels will be installed at a 20º angle, facing in a southernly direction. The leading edge of each panel will be approximately 3 feet from the finished grade. The back edge will be 9 feet from finished grade. The figures below show the mounting systems being proposed for this project.

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6500 Sheridan Drive, Suite 120
Buffalo, NY 14221
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Figure 2 – Front View of Mounted Solar Panels

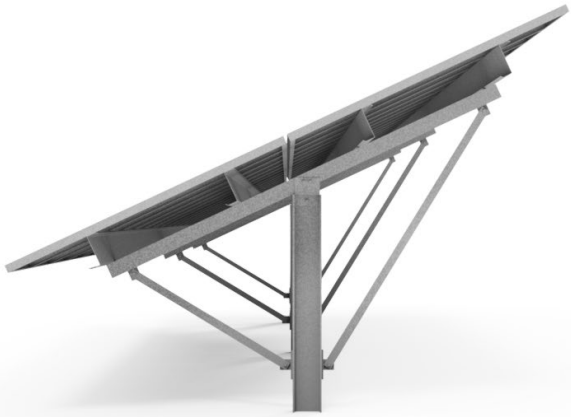


Figure 3 – Side View of Mounted Solar Panels

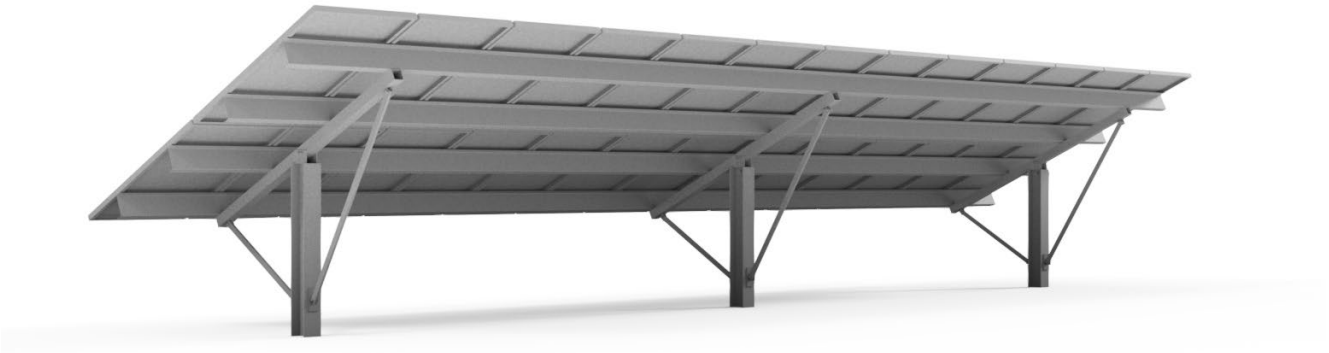


Figure 4 – Isometric Rear View of Mounted Solar Panels

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6500 Sheridan Drive, Suite 120
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866.80.RENEW (73639)
866.807.7882 Fax
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info@solarliberty.com

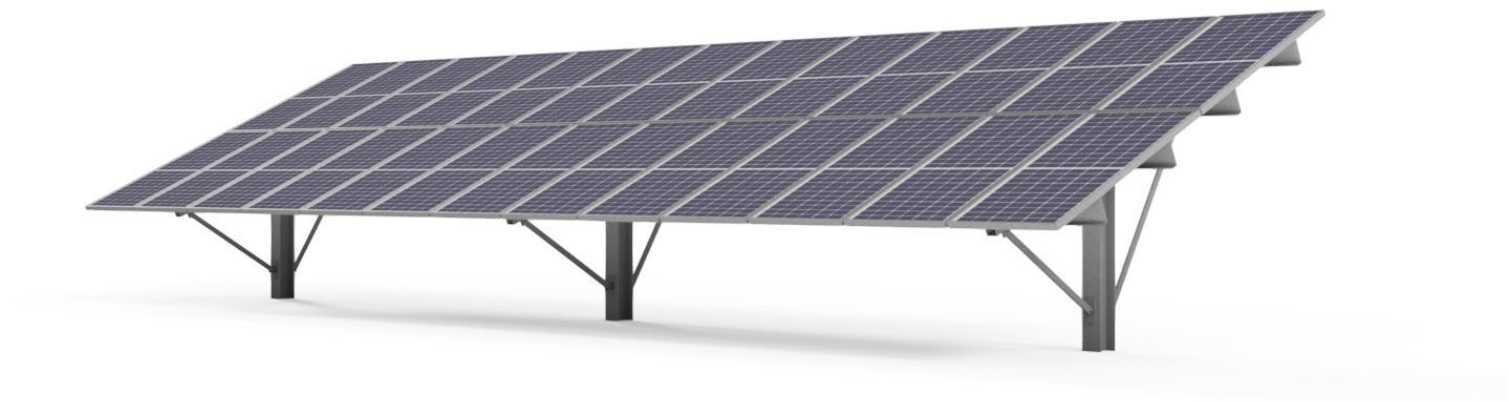


Figure 5 – Isometric Front View of Solar Panels

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6500 Sheridan Drive, Suite 120
Buffalo, NY 14221

866.80.RENEW (73639)
866.807.7882 Fax

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Vegetated Buffers:
The project site as designed, is situated on an area of the property that takes advantage best the existing vegetation of mature trees, brush, and topography to buffer views.



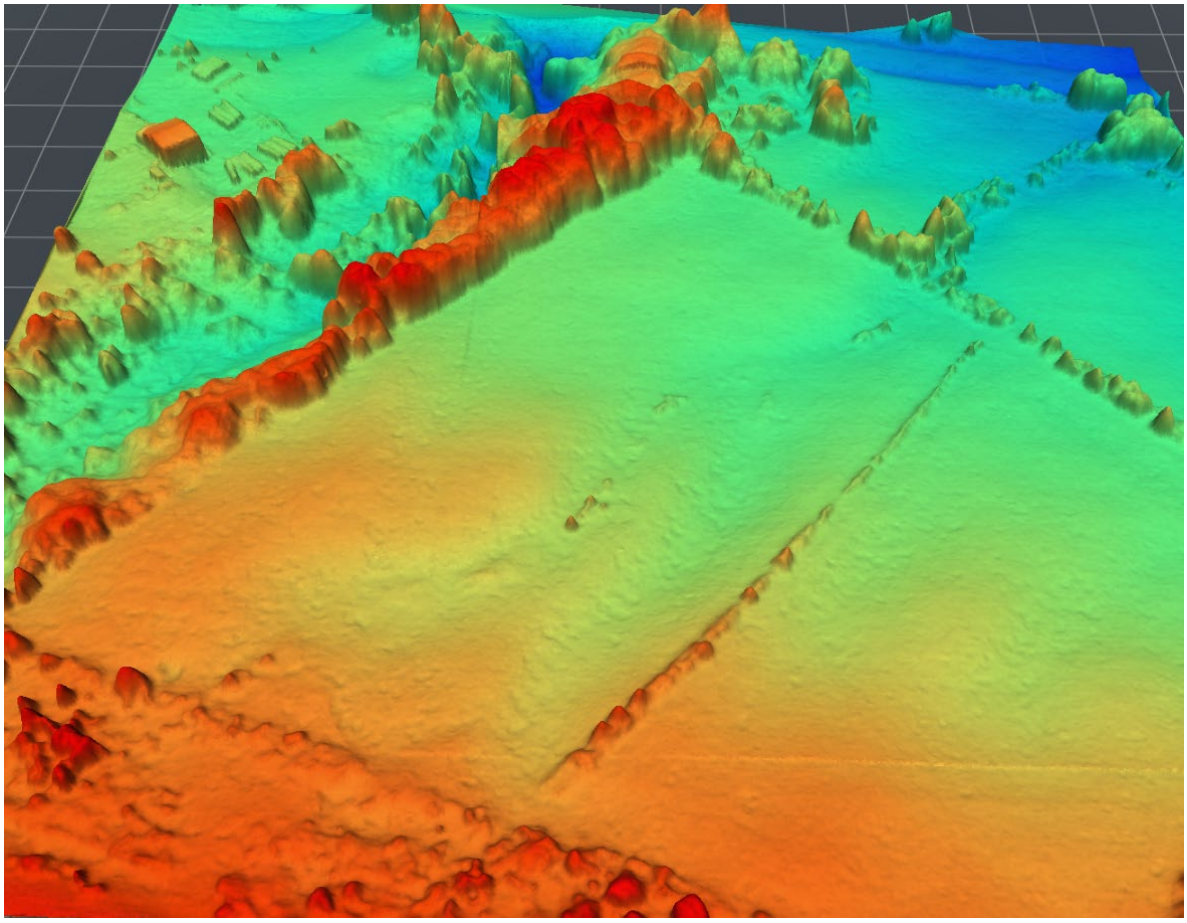
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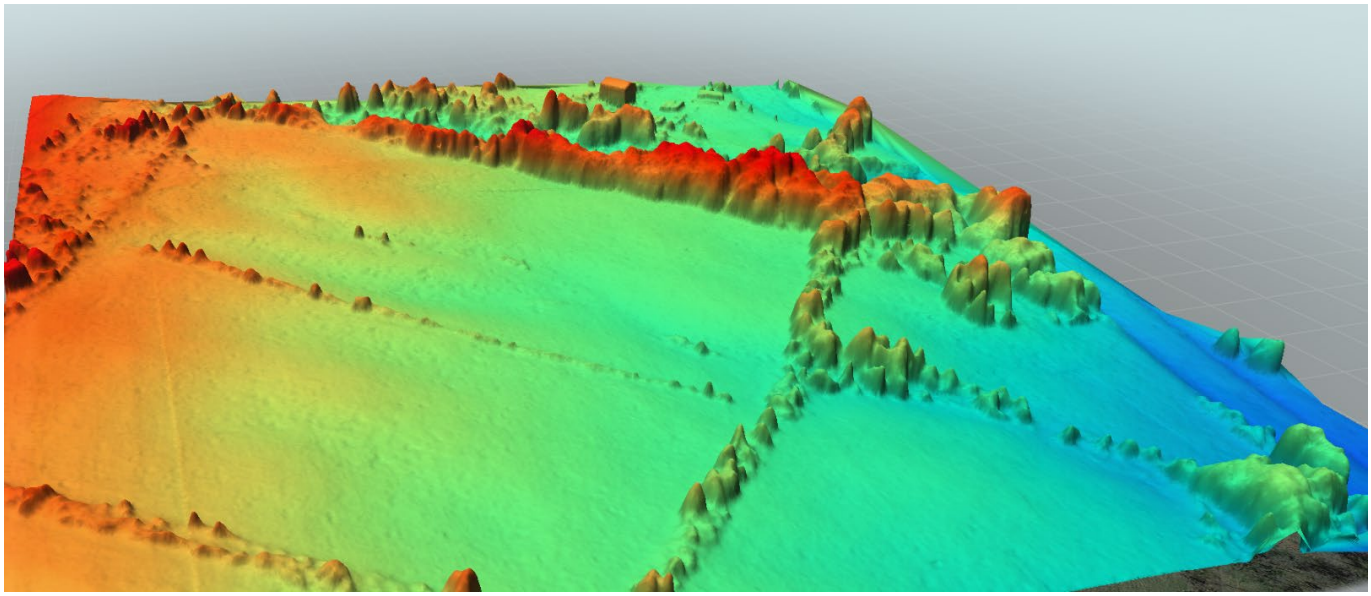
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Topography Across Parcel via LIDAR:





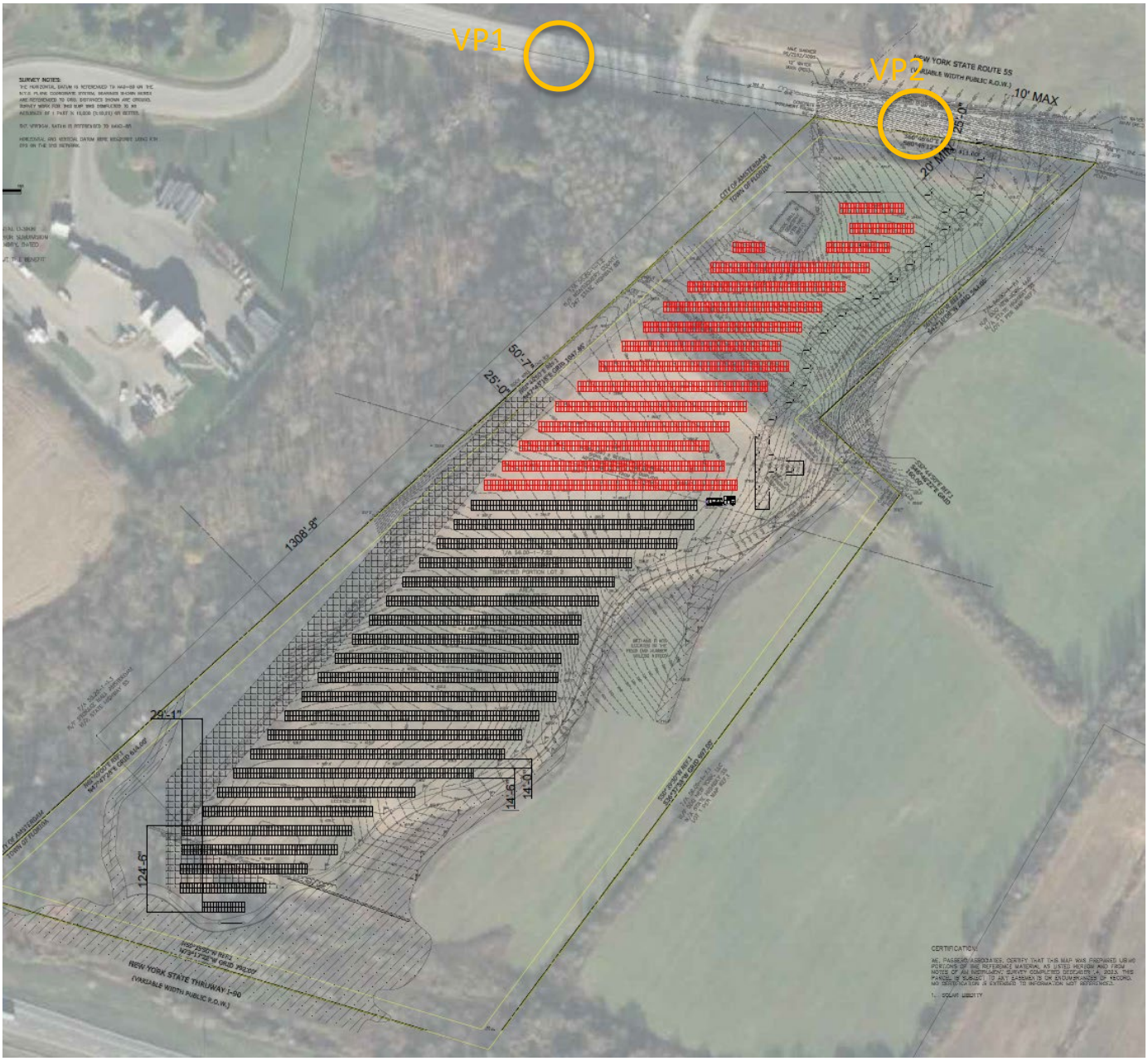
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6500 Sheridan Drive, Suite 120
Buffalo, NY 14221

866.80.RENEW (73639)
866.807.7882 Fax

solarliberty.com
info@solarliberty.com

Visual Impact

The project will have limited visual impact from the proposed solar project. As such, the following review outlines the impact topography and vegetation has on the visual impact of the solar project from several sample locations. Each location below is reviewed against the topography of the project location. The scale outline's location of the view point, vegetation and solar arrays. The topography data and graphs utilize USGS National Mapping Services: https://apps.nationalmap.gov/viewer/



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6500 Sheridan Drive, Suite 120
Buffalo, NY 14221

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Person 6’



Buffer



Buffer



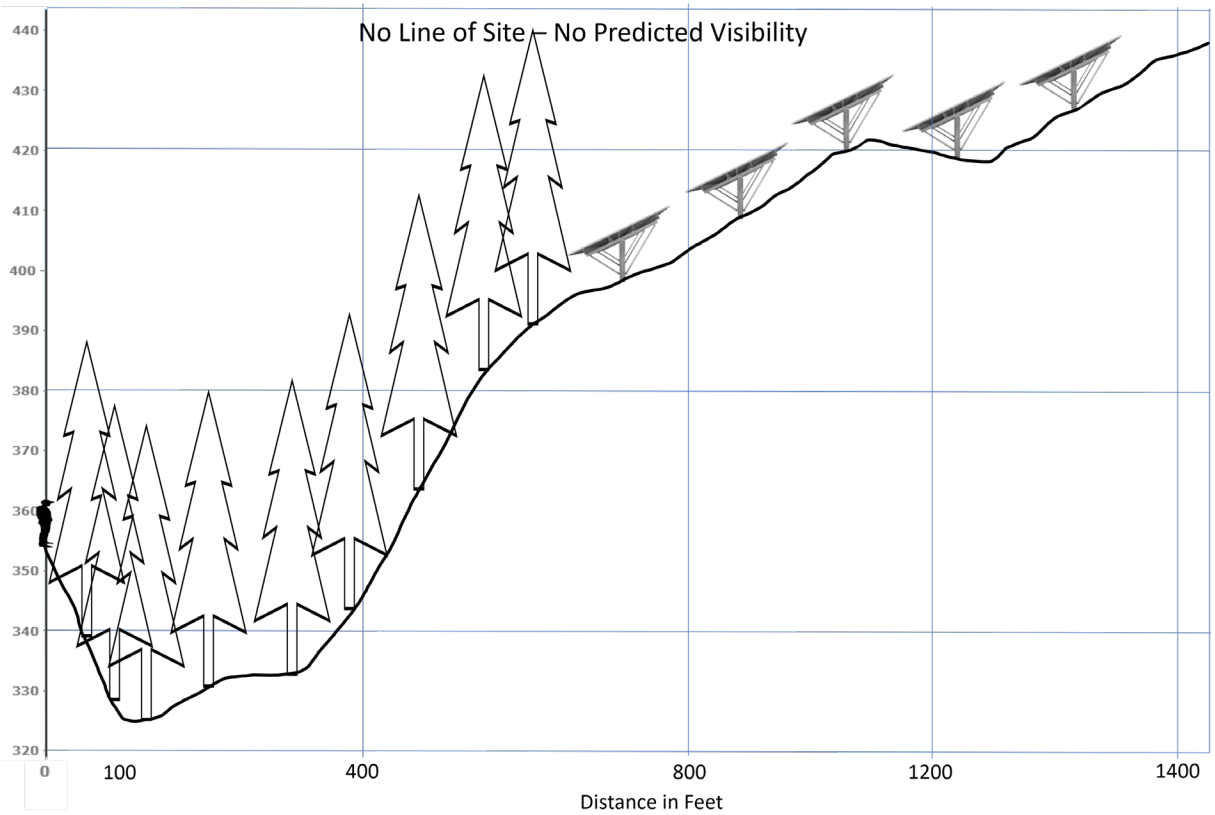
Array

Visual Point 1





Based upon our evaluation, visual point 1 will not be impacted by the solar array given the existing vegetation and topography of the land.



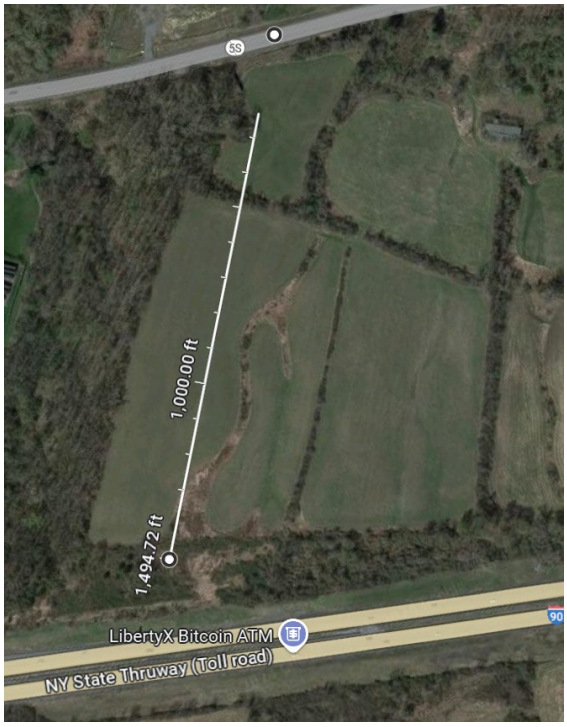
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Buffalo, NY 14221

866.80.RENEW (73639)
866.807.7882 Fax

solarliberty.com
info@solarliberty.com

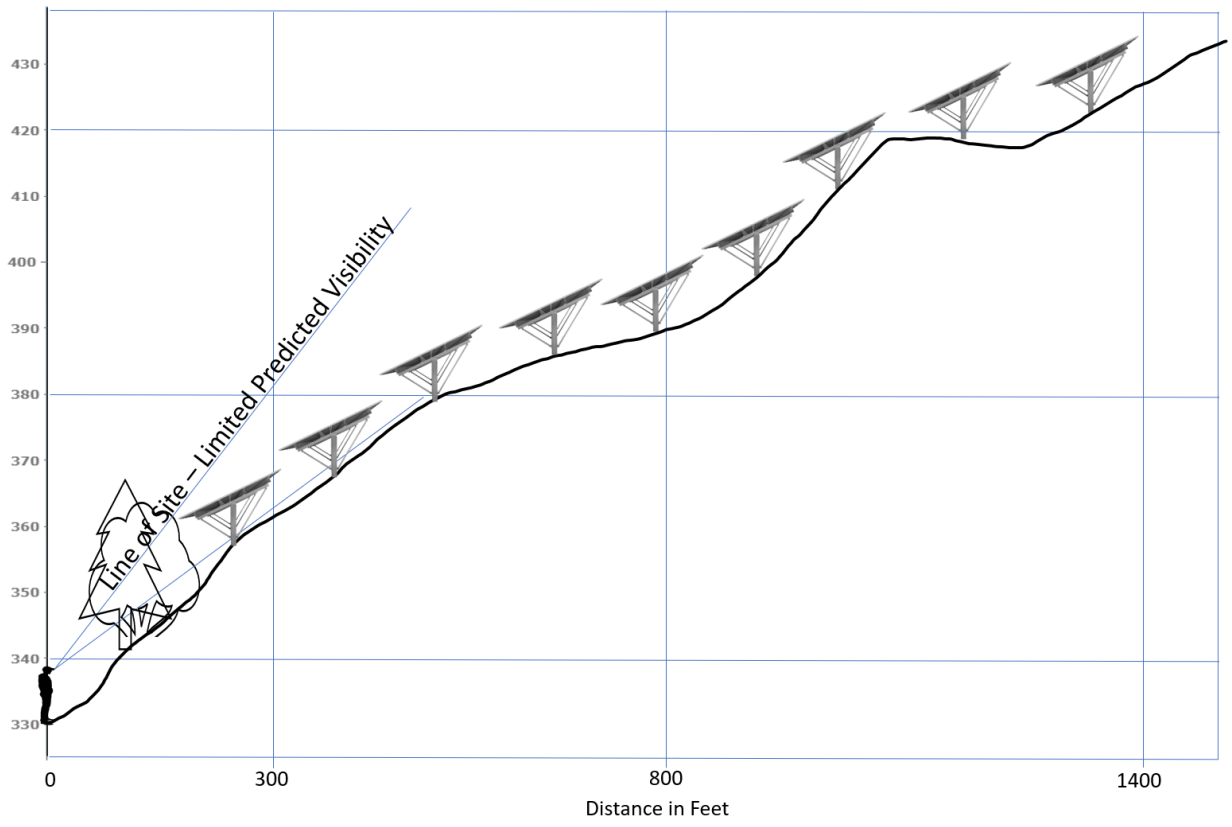
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Visual Point 2





Based upon our evaluation, visual point 2 will have minimum impact by the solar array given the vegetative screening and topography of the land. Once vegetation is mature array will not be visible.



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Buffalo, NY 14221
866.80.RENEW (73639)
866.807.7882 Fax
solarliberty.com
info@solarliberty.com

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Rendered Visual Point 2 View



OVERALL VISUAL IMPACT

The SEP Amsterdam Solar Project is sited in a way that will take full advantage of natural topography and existing vegetative buffers to shield the site views.

Existing vegetative buffers surrounding the project location will minimize any views. Solar Liberty is willing to discuss this analysis with the Town and Planning Board. Should any updates be required, or portions of the project require screening, Solar Liberty will work with the Town to mitigate any concerns.

Sincerely,
Solar Energy Systems, Inc.

Nathan Rizzo
Vice President

Corporate Headquarters
6500 Sheridan Drive, Suite 120
Buffalo, NY 14221

866.80.RENEW (73639)
866.807.7882 Fax

solarliberty.com
info@solarliberty.com

Exhibit 10

Glare Analysis

FORGESOLAR GLARE ANALYSIS

Project: **SEP Amsterdam**
Site configuration: **SEP Amsterdam-temp-2**
Calculated via ForgeSolar Radiometric Physics Engine v3.2.1

Created 20 Jul, 2026
Updated 20 Jul, 2026
Time-step 1 minute
Timezone offset UTC-5
Minimum sun altitude 0.0 deg
DNI peaks at 1,000.0 W/m^2
Category 1 MW to 5 MW
Site ID 183586.30289

Ocular transmission coefficient 0.5
Pupil diameter 0.002 m
Eye focal length 0.017 m
Sun subtended angle 9.3 mrad
Min luminance threshold 5,000 cd/m^2



Summary of Results No glare predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
First Solar	25.0	180.0	0	0.0	0	0.0	-
QCell Modules	25.0	180.0	0	0.0	0	0.0	-

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
NY - 5S	0	0.0	0	0.0
Route 90 East Bound	0	0.0	0	0.0
Route 90 Westbound	0	0.0	0	0.0
Thayer Road	0	0.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0

Component Data

PV Arrays

Name: First Solar
Axis tracking: Fixed (no rotation)
Tilt: 25.0°
Orientation: 180.0°
Rated power: -
Panel material: Smooth glass without AR coating



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.924009	-74.188621	403.11	6.22	409.33
2	42.922622	-74.190069	431.78	6.22	438.00
3	42.922351	-74.190085	433.71	6.22	439.93
4	42.922339	-74.189924	434.67	6.22	440.89
5	42.922245	-74.189930	435.31	6.22	441.53
6	42.922233	-74.189533	434.16	6.22	440.38
7	42.922410	-74.189538	431.80	6.22	438.02
8	42.922492	-74.189307	427.53	6.22	433.75
9	42.922677	-74.189082	421.60	6.22	427.82
10	42.922755	-74.188937	420.18	6.22	426.40
11	42.922791	-74.188750	418.32	6.22	424.54
12	42.922818	-74.188567	416.76	6.22	422.98
13	42.922834	-74.188412	414.21	6.22	420.43
14	42.922979	-74.188197	411.65	6.22	417.87
15	42.923125	-74.188090	406.89	6.22	413.11
16	42.923290	-74.188041	401.57	6.22	407.79
17	42.923396	-74.188004	398.25	6.22	404.47
18	42.923545	-74.187902	392.66	6.22	398.88
19	42.923671	-74.187687	388.20	6.22	394.42
20	42.923718	-74.187408	382.66	6.22	388.88
21	42.923781	-74.187183	378.63	6.22	384.85
22	42.923899	-74.187060	378.62	6.22	384.84

Name: QCell Modules
Axis tracking: Fixed (no rotation)
Tilt: 25.0°
Orientation: 180.0°
Rated power: -
Panel material: Smooth glass without AR coating



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.925187	-74.187001	378.73	6.36	385.09
2	42.925124	-74.186239	340.33	6.36	346.69
3	42.924982	-74.186185	344.54	6.36	350.90
4	42.924872	-74.186153	345.86	6.36	352.22
5	42.924212	-74.186915	379.77	6.36	386.13
6	42.923898	-74.186969	376.87	6.36	383.23
7	42.924024	-74.188589	401.81	6.36	408.17

Route Receptors

Name: NY - 5S
Path type: Two-way
Azimuthal view angle: 50.0°
Downward view angle: 90.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.927395	-74.194726	371.39	5.00	376.39
2	42.925958	-74.189297	364.25	5.00	369.25
3	42.925652	-74.187392	345.32	5.00	350.32
4	42.925436	-74.185703	322.11	5.00	327.11
5	42.925213	-74.184156	302.71	5.00	307.71
6	42.924875	-74.183083	293.36	5.00	298.36
7	42.924102	-74.181198	293.72	5.00	298.72
8	42.922661	-74.177708	291.18	5.00	296.18

Name: Route 90 East Bound
Path type: One-way (toward increasing index)
Azimuthal view angle: 50.0°
Downward view angle: 90.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.918371	-74.174595	409.12	5.00	414.12
2	42.922590	-74.194100	446.06	5.00	451.06
3	42.922935	-74.194765	448.37	5.00	453.37
4	42.923721	-74.195602	450.98	5.00	455.98
5	42.925135	-74.196138	433.18	5.00	438.18
6	42.925591	-74.196503	422.40	5.00	427.40
7	42.926549	-74.198820	413.22	5.00	418.22

Name: Route 90 Westbound
Path type: One-way (toward increasing index)
Azimuthal view angle: 50.0°
Downward view angle: 90.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.926471	-74.198928	412.49	5.00	417.49
2	42.925497	-74.196610	425.77	5.00	430.77
3	42.925041	-74.196224	435.98	5.00	440.98
4	42.924585	-74.196074	448.46	5.00	453.46
5	42.924098	-74.195988	453.00	5.00	458.00
6	42.922637	-74.196481	465.24	5.00	470.24
7	42.921773	-74.196868	484.85	5.00	489.85
8	42.921411	-74.197297	489.71	5.00	494.71
9	42.921317	-74.198434	483.35	5.00	488.35
10	42.921820	-74.199142	479.89	5.00	484.89
11	42.922480	-74.199142	470.94	5.00	475.94
12	42.922888	-74.198627	465.99	5.00	470.99
13	42.922998	-74.197576	458.46	5.00	463.46
14	42.918017	-74.174112	408.55	5.00	413.55

Name: Thayer Road
Path type: Two-way
Azimuthal view angle: 50.0°
Downward view angle: 90.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.923714	-74.180251	296.60	5.00	301.60
2	42.923274	-74.179940	306.35	5.00	311.35
3	42.922684	-74.179393	329.24	5.00	334.24
4	42.921922	-74.178835	347.09	5.00	352.09
5	42.919746	-74.177547	401.88	5.00	406.88
6	42.919047	-74.177215	419.89	5.00	424.89
7	42.918175	-74.176936	422.40	5.00	427.40

Discrete Observation Point Receptors

Name	ID	Latitude (°)	Longitude (°)	Elevation (ft)	Height (ft)
OP 1	1	42.924680	-74.190197	402.20	5.00
OP 2	2	42.926180	-74.187075	359.00	5.00
OP 3	3	42.922185	-74.179729	356.13	5.00
OP 4	4	42.921666	-74.179262	364.46	5.00
OP 5	5	42.920963	-74.179547	387.93	5.00
OP 6	6	42.922193	-74.178479	342.38	5.00
OP 7	7	42.921780	-74.178061	345.41	5.00
OP 8	8	42.920683	-74.177786	378.14	5.00
OP 9	9	42.919701	-74.177130	412.39	5.00

Obstruction Components

Name: Obstruction 1
Top height: 60.00 ft



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)
1	42.925556	-74.188176	363.90
2	42.922461	-74.192102	442.37
3	42.921699	-74.189120	450.56
4	42.921942	-74.189270	441.25
5	42.922233	-74.190257	432.76
6	42.922689	-74.190289	441.15
7	42.925371	-74.186876	362.74
8	42.925556	-74.188176	363.90

Name: Obstruction 10
Top height: 32.81 ft



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)
1	42.922995	-74.184962	385.89
2	42.922866	-74.185048	387.31
3	42.922037	-74.183047	395.16
4	42.922347	-74.182821	394.81
5	42.922312	-74.183090	393.59
6	42.922995	-74.184962	385.89

Name: Obstruction 11
Top height: 32.81 ft



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)
1	42.921112	-74.178712	372.52
2	42.921050	-74.178658	374.35
3	42.920013	-74.180584	428.56
4	42.920134	-74.181324	427.96
5	42.920205	-74.181233	424.25
6	42.920166	-74.180665	424.76
7	42.921112	-74.178712	372.52

Name: Obstruction 2
Top height: 32.81 ft



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)
1	42.921731	-74.189034	449.76
2	42.921947	-74.188712	437.82
3	42.922010	-74.188272	437.80
4	42.920182	-74.181331	426.58
5	42.920119	-74.181497	429.48
6	42.920154	-74.181798	435.49
7	42.920119	-74.181948	438.90
8	42.921731	-74.189034	449.76

Name: Obstruction 3
Top height: 32.81 ft



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)
1	42.925380	-74.185922	325.72
2	42.925258	-74.186040	334.95
3	42.925132	-74.185423	332.82
4	42.924236	-74.186754	374.99
5	42.924009	-74.186480	369.34
6	42.924818	-74.185407	340.22
7	42.924527	-74.184699	342.30
8	42.925171	-74.184501	311.50
9	42.925387	-74.185885	324.43
10	42.925380	-74.185922	325.72

Name: Obstruction 4
Top height: 32.81 ft



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)
1	42.925144	-74.184168	302.59
2	42.924578	-74.184372	331.22
3	42.923800	-74.181818	334.87
4	42.923557	-74.181958	341.03
5	42.923203	-74.180842	331.99
6	42.923384	-74.180563	318.12
7	42.923690	-74.181067	304.57
8	42.923942	-74.181035	297.66
9	42.925144	-74.184168	302.59

Name: Obstruction 5
Top height: 32.81 ft



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)
1	42.923502	-74.181942	343.33
2	42.920897	-74.183771	431.56
3	42.920815	-74.183567	429.29
4	42.921966	-74.182698	392.20
5	42.921695	-74.181872	388.23
6	42.922312	-74.181539	372.79
7	42.922697	-74.182264	365.59
8	42.923443	-74.181765	343.05
9	42.923502	-74.181942	343.33

Name: Obstruction 6
Top height: 32.81 ft



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)
1	42.923172	-74.180644	330.72
2	42.921628	-74.181690	389.63
3	42.920964	-74.179903	390.41
4	42.921212	-74.179753	386.23
5	42.921660	-74.180890	379.92
6	42.922885	-74.179721	325.16
7	42.923199	-74.180037	309.84
8	42.923172	-74.180644	330.72

Name: Obstruction 7
Top height: 32.81 ft



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)
1	42.922084	-74.179812	359.02
2	42.921793	-74.180005	361.64
3	42.921447	-74.179576	377.76
4	42.921282	-74.179737	381.59
5	42.921137	-74.179206	383.59
6	42.921290	-74.178557	362.26
7	42.922261	-74.179227	341.88
8	42.922060	-74.179597	357.82
9	42.922084	-74.179812	359.02

Name: Obstruction 8
Top height: 32.81 ft



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)
1	42.923985	-74.186314	365.86
2	42.923926	-74.186453	368.51
3	42.923034	-74.185273	384.89
4	42.923188	-74.185117	379.80
5	42.923985	-74.186314	365.86

Name: Obstruction 9
Top height: 32.81 ft



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)
1	42.923800	-74.184613	356.89
2	42.923710	-74.184458	355.84
3	42.921687	-74.186035	427.75
4	42.921734	-74.186196	429.84
5	42.923800	-74.184613	356.89

Glare Analysis Results

Summary of Results No glare predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
First Solar	25.0	180.0	0	0.0	0	0.0	-
QCell Modules	25.0	180.0	0	0.0	0	0.0	-

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
NY - 5S	0	0.0	0	0.0
Route 90 East Bound	0	0.0	0	0.0
Route 90 Westbound	0	0.0	0	0.0
Thayer Road	0	0.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0

PV: First Solar no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
NY - 5S	0	0.0	0	0.0
Route 90 East Bound	0	0.0	0	0.0
Route 90 Westbound	0	0.0	0	0.0
Thayer Road	0	0.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0

First Solar and Route: NY - 5S

No glare found

First Solar and Route: Route 90 East Bound

No glare found

First Solar and Route: Route 90 Westbound

No glare found

First Solar and Route: Thayer Road

No glare found

First Solar and OP 1

No glare found

First Solar and OP 2

No glare found

First Solar and OP 3

No glare found

First Solar and OP 4

No glare found

First Solar and OP 5

No glare found

First Solar and OP 6

No glare found

First Solar and OP 7

No glare found

First Solar and OP 8

No glare found

First Solar and OP 9

No glare found

PV: QCell Modules no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
NY - 5S	0	0.0	0	0.0
Route 90 East Bound	0	0.0	0	0.0
Route 90 Westbound	0	0.0	0	0.0
Thayer Road	0	0.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0

QCell Modules and Route: NY - 5S

No glare found

QCell Modules and Route: Route 90 East Bound

No glare found

QCell Modules and Route: Route 90 Westbound

No glare found

QCell Modules and Route: Thayer Road

No glare found

QCell Modules and OP 1

No glare found

QCell Modules and OP 2

No glare found

QCell Modules and OP 3

No glare found

QCell Modules and OP 4

No glare found

QCell Modules and OP 5

No glare found

QCell Modules and OP 6

No glare found

QCell Modules and OP 7

No glare found

QCell Modules and OP 8

No glare found

QCell Modules and OP 9

No glare found

Assumptions

"Green" glare is glare with low potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.
"Yellow" glare is glare with potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.
Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
The algorithm does not rigorously represent the detailed geometry of a system; detailed features such as gaps between modules, variable height of the PV array, and support structures may impact actual glare results. However, we have validated our models against several systems, including a PV array causing glare to the air-traffic control tower at Manchester-Boston Regional Airport and several sites in Albuquerque, and the tool accurately predicted the occurrence and intensity of glare at different times and days of the year.
Random number computations are utilized by various steps of the annual hazard analysis algorithm. Predicted minutes of glare can vary between runs as a result. This limitation primarily affects analyses of Observation Point receptors, including ATCTs. Note that the SGHAT/ ForgeSolar methodology has always relied on an analytical, qualitative approach to accurately determine the overall hazard (i.e. green vs. yellow) of expected glare on an annual basis.
The analysis does not automatically consider obstacles (either man-made or natural) between the observation points and the prescribed solar installation that may obstruct observed glare, such as trees, hills, buildings, etc.
The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
The variable direct normal irradiance (DNI) feature (if selected) scales the user-prescribed peak DNI using a typical clear-day irradiance profile. This profile has a lower DNI in the mornings and evenings and a maximum at solar noon. The scaling uses a clear-day irradiance profile based on a normalized time relative to sunrise, solar noon, and sunset, which are prescribed by a sun-position algorithm and the latitude and longitude obtained from Google maps. The actual DNI on any given day can be affected by cloud cover, atmospheric attenuation, and other environmental factors.
The ocular hazard predicted by the tool depends on a number of environmental, optical, and human factors, which can be uncertain. We provide input fields and typical ranges of values for these factors so that the user can vary these parameters to see if they have an impact on the results. The speed of SGHAT allows expedited sensitivity and parametric analyses.
The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid based on aggregated research data. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
Refer to the Help page at **www.forgesolar.com/help/** for assumptions and limitations not listed here.

Default glare analysis parameters and observer eye characteristics (for reference only):

- Analysis time interval: 1 minute
- Ocular transmission coefficient: 0.5
- Pupil diameter: 0.002 meters
- Eye focal length: 0.017 meters
- Sun subtended angle: 9.3 milliradians

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This analysis was conducted using the best available radiometric modeling at the time of generation. Future updates to the modeling methodology may yield different results.

Exhibit 11

Agricultural Data Statement

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

Agricultural Data Statement

Date _____

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: Solar Energy Partners Amsterdam LLC Address: State Route 5S Florida, NY	Name: _____ Address: _____

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

2. Description of proposed project: Applicant proposes an approximately 2.50 MWAC ground-mounted, fixed-tilt solar photovoltaic system (FT) that generates electricity for offsite use, sale, and consumption.

3. Location of project: Address: STATE HIGHWAY 5S
   Tax Map Number (TMP) 56.-3-7.22

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_____
6. Is this parcel actively farmed? ☒ NO ☐ YES
7. List all farm operations within 500 feet of your parcel. Attach additional sheets if necessary.

Name: Serafino Mariscano Address: ST HWY 5S, Amsterdam, NY 12010 56.-3-8 unknown if actively farmed) Is this parcel actively farmed? ☐ NO ☐ YES	Name: Lucas Schauffelberg Address: OFF BELLDONS RD, Amsterdam, NY 71.-1-75 Is this parcel actively farmed? ☐ NO ☒ YES
Name: Walter Correia Address: 126 Thayer Rd., Amsterdam, NY 12010 56.-3-13 (unknown if actively farmed) Is this parcel actively farmed? ☐ NO ☐ YES	Name: Nadler Bros, Inc. Address: ST HWY 5S, Amsterdam, NY 12010 55.19-1-4 Is this parcel actively farmed? ☐ NO ☒ YES

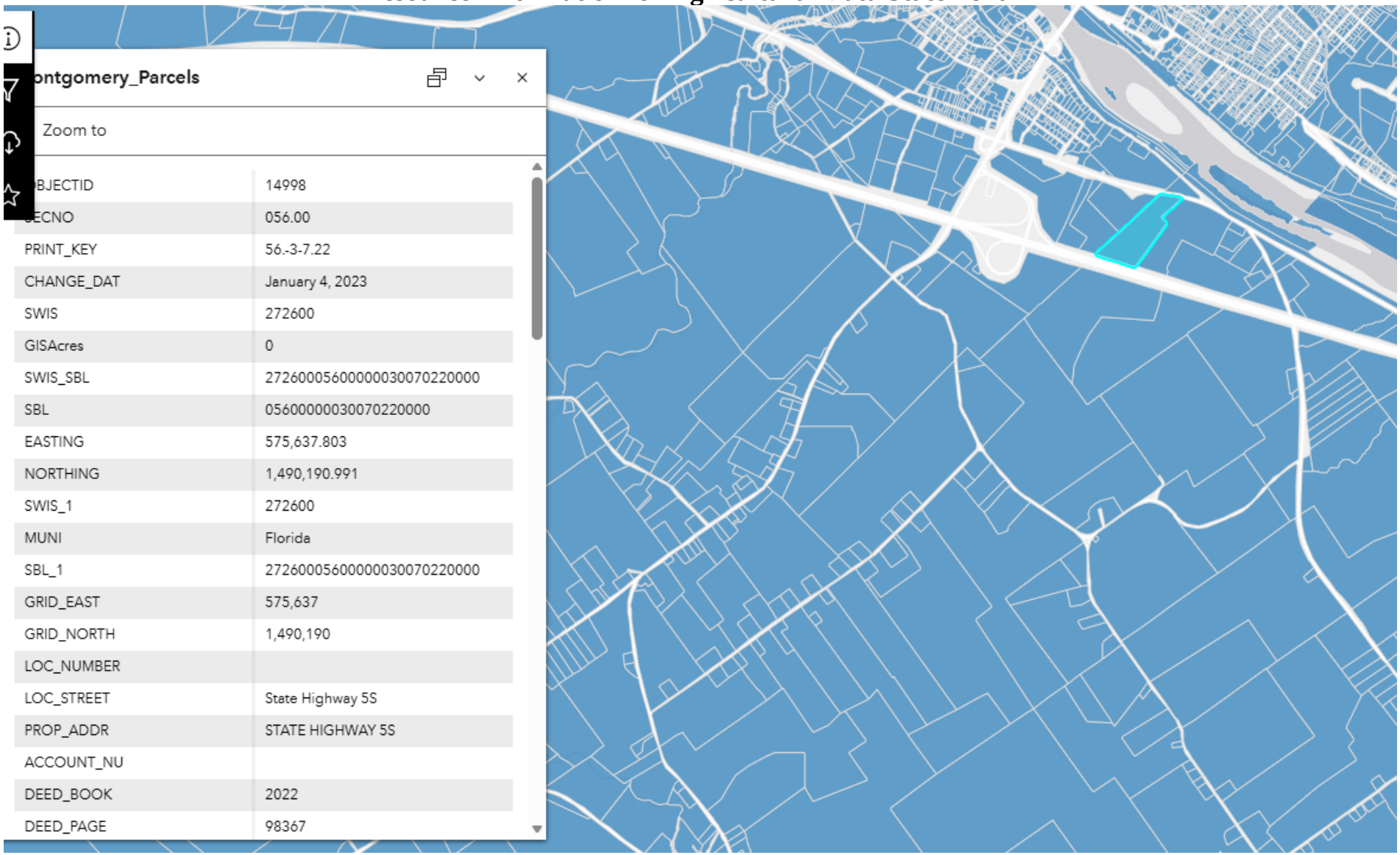
Ari Goldberg, Barlcay Damon LLP
as attorney/agent for applicant/property owner

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.

Solar Energy Partners 2.50 MWAC Solar Proposal-Montgomery County, Town of Florida, NY
State Highway 5S (Tax Map #56.-3-7.22)
Resource Information for Agricultural Data Statement



Solar Energy Partners 2.50 MWAC Solar Proposal-Montgomery County, Town of Florida, NY
State Highway 5S (Tax Map #56.-3-7.22)
Resource Information for Agricultural Data Statement

Source: [Montgomery County Parcels | NYS GIS Clearinghouse Data]



Map data

Attribute	Value
county	Montgomery
district	3
creation	1975-07-22Z
certified	2019-11-20Z
towns	Charleston, Florida, Glen, Root, city of Amsterdam; village: Fultonville and city of Amsterdam
distcode	MONT003

Source: [Agricultural Districts, Montgomery County NY, 2023 - CUGIR]

Solar Energy Partners 2.50 MWAC Solar Proposal-Montgomery County, Town of Florida, NY
State Highway 5S (Tax Map #56.-3-7.22)
Resource Information for Agricultural Data Statement

Web Map Service (WMS)



Map data

Attribute	Value
county	Montgomery
district	3
creation	1975-07-22Z
certified	2019-11-20Z
towns	Charleston, Florida, Glen, Root, city of Amsterdam; village: Fultonville and city of Amsterdam
distcode	MONT003

Source: [Agricultural Districts, Montgomery County NY, 2023 - CUGIR]

Exhibit 12

Abridged CESIR with National Grid

For
Solar Liberty Energy Systems
2,000 kW Inverter Based Photovoltaic Generator System
1225 State Route 5S, Amsterdam, New York, 12010

Interconnection to National Grid
NY East
Northeastern Region
Gloversville District
Florida 501 Substation
13.2 kV Feeder 50153

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1.0 INTRODUCTION

This report presents the analysis results of the National Grid ("National Grid" or the "Company") interconnection study based on the proposed interconnection and design submittal from the Interconnection Customer in accordance with the Company ESB No. 756B. The intent of this report is to assess this project's feasibility, determine its impact to the existing electric power system (EPS), determine interconnection scope and installation requirements, and determine costs associated with interconnecting the Interconnection Customer's generation to the Company's Electric Power System (EPS). This Coordinated Electric System Impact Review (CESIR) study, according to the NYSSIR Section I.C Step 6; identifies the scope, schedule, and costs specific to this Interconnection Customer's installation requirements.

2.0 EXECUTIVE SUMMARY

The total estimated planning grade cost of the work associated with the interconnection of the Interconnection Customer is [redacted].

The interconnection was found to be feasible with modifications to the existing Company EPS and operating conditions, which are described in detail in the body of this Study.

The ability to generate is contingent on this facility being served by the interconnecting circuit during normal Utility operating conditions. Therefore, if the interconnecting circuit is out of service, or if abnormal Utility operating conditions of the area EPS are in effect National Grid reserves the right to disengage the facility.

No future increase in generation output beyond that which specified herein for this interconnection has been studied. Any increase in system size and/or design change is subject to a new study and costs associated shall be borne by the Interconnection Customer. An increase in system size may also forfeit the Interconnection Customer's existing queue position.

3.0 COMPANY EPS PARAMETERS

Substation	Florida 501
Transformer Name	TB1
Transformer Peak Load (kW)	21,185
Contingency Condition Load, N-1 Criteria (kW) (as applicable)	N/A
Daytime Light Load (kW)	6,361
Generation: Total[1], Connected, Queued Ahead (kW)	25,606; 9,084; 14,522
Contingency Condition Generation: Total[1], Connected, Queued Ahead (kW)	N/A
Supply Voltage (kV)	69
Transformer Summer Normal Rating (kVA)	26,000
Distribution Bus Voltage Regulation	Yes, via LTC
Transmission GFOV Status	Installed
Bus Tie	None
Number of Feeders Served from this Bus	4

Connecting Feeder/Line	50153
Peak Load on feeder (kW)	4,191
Daytime Light Load on Feeder (kW)	1,221
Feeder Primary Voltage at POI (kV)	13.2
Line Phasing at POI	3
Circuit Distance from POI to Substation	3.92 miles
Distance to nearest 3-phase, (if applicable)	N/A
Line Regulation	Y
Line/Source Grounding Configuration at POI	Effective
Generation: Total[1], Connected, Queued Ahead(kW)	2,230; 208; 22

System Fault Characteristics without Interconnection Customer DG at POI	
Interconnection Customer POI Location	P2 State Highway 5S, Amsterdam
I 3-phase (3LLL)	2,044 A
I Line to Ground (3I0)	1,470 A
Z1 (100 MVA base)	0.66867+j2.04634PU
Z0 (100 MVA base)	1.93058+j4.26557PU

[1] The total value referenced here includes the subject generator, connected generation and generation that is queued ahead.

4.0 INTERCONNECTION CUSTOMER SITE

The Interconnection Customer is proposing a new primary service connection with Account No. 7497423003.

This location - 1225 State Route 5S, Amsterdam, New York 12010 – is presently served by National Grid's Florida Substation by 13.2 kV three phase distribution feeder 50153.

The proposed generating system consists of:

- Five thousand two hundred and twenty (5,280) three phase Hanwha QCell 480 W Solar Panels for a total DC size of 2,534.4 kW.
- Sixteen (16) three phase Chint CPS SCH125KTL-DO/US-600, 125 kW / kVA, 600 V, inverters for a total AC output of 2,000 kW / kVA.
- One (1) 2,000 kVA, three phase 13.2 kV grounded-wye primary to 600 V grounded-wye secondary, pad/vault mounted, interface transformer with 5-legged core, with an impedance of Z = 5.75% and X/R = 9.
- One (1) 112.5 kVA, 600 V grounded-wye primary to 208 V delta secondary grounding transformer with an impedance of Z = 4.8% and X/R >= 4.
- One (1) Customer riser pole with one (1) Customer owned revenue meter and one (1) set of 8.4 kV MCOV lightning arrestors.
- One (1) Customer pole with one (1) Utility owned primary meter.
- One (1) Customer owned pole with one (1) disconnect switch of an unknown manufacturer and one (1) S&C SMU-20 100K fuse rated for 15kV and 200A.

5.0 SYSTEM IMPACT ANALYSIS

Category	Criteria	Limit	Result
Voltage	Overvoltage	< 105% (ANSI C84.1)	Pass
With the addition of the subject generator the maximum voltage as modeled on the Feeder is 104.86% of nominal.			
Voltage	Undervoltage	> 95% (ANSI C84.1)	Pass
With the addition of the subject generator the minimum voltage as modeled on the Feeder is 95.65% of nominal.			
Voltage	Substation Regulation for Reverse Power	<100% minimum load criteria	**Fail**
The total generation on Feeders 50151, 50152, 50153, and 50154 is 25.606 MW. The total minimum load on these Feeders is 6.361 MW. Therefore, the generation to load ratio is 402.5%, which exceeds the Company's criteria for Substation Regulation for Reverse Power and will require a bi-directional LTC controller to be installed. However, the Florida TB1 substation transformer already has a bi-directional LTC controller installed, so no further action is required.			
Voltage	Feeder Regulation for Reverse Power	<100% Minimum load to generation ratio	**Fail**
The total generation downstream of Pole #15 1/2 Cleveland Avenue voltage regulator is 2.154 MW. The minimum load downstream of the voltage regulator is 0.803 MW. Therefore, the generation to load ratio is 268% and reverse power will flow through this regulator onto the circuit as a result of this DG interconnection. **Therefore, the Pole #15 ½ Cleveland Avenue 3-333 kVA voltage regulator will need to be equipped with bi-directional controls.**			

Voltage	Fluctuation	<3% steady state from proposed generation on feeder, <5% steady state from aggregate DER on substation bus, Regulator tap movement exceeds 1 position.	**Fail**

This Facility was modeled using the Long Term Dynamics module of CYME. A long term dynamic profile for the Facility was used to simulate the voltage fluctuation of the site over a 6 hour period during maximum and minimum loading conditions. This is a part of the Smart Inverter analysis for distributed generation sites that will utilize IEEE-1547.2018 grid support functions such as Volt-VAR and Volt-Watt. Other significant DG existing or in process ahead of this Project was modeled at full output and modeled with the appropriate voltage fluctuation curve to simulate reasonable voltage fluctuations.

A VAR Compensator device was modeled at the Facility's PCC to accurately model the smart inverter response. The following settings were used in the VAR compensator device:

Setpoint	V (%)	Q (%)
1	90.0	44.0
2	93.0	44.0
3	97.0	0.0
4	103.0	0.0
5	107.0	-44.0
6	110.0	-44.0

Table 1 – Volt-VAR Settings

In addition, with the addition of the subject generator, the mid-line regulators at Pole #8 ½ Thayer Road, Pole #15 ½ Cleveland Road, and Pole #115 ½ State Route 5S, all in Amsterdam, New York, have excessive tap counts over the 6 hour time frame during maximum loading conditions. **Therefore, the following modifications are required:**

- **Pole #8 ½ Thayer Road regulator setting change – increase bandwidth to 3 V.**
- **Pole #15 ½ Cleveland Road regulator setting change – increase bandwidth to 3 V.**
- **Pole #115 ½ State Route 5S regulator setting change – increase bandwidth to 3 V.**

The greatest voltage fluctuation on the feeder after the above modifications to regulator settings occurs at approximately Pole #115 ½ State Highway 5S, Amsterdam, NY. The resulting fluctuation at the feeder location is 1.26% due to the proposed generation and 0.1% on the feeder bus due to the aggregate generation.

Voltage	Flicker	Screen H Flicker	Pass
The Pst for the location with the greatest voltage fluctuation is 0.05 and the emissions limit is 0.35.			
Equipment Ratings	Thermal (continuous current)	< 100% thermal limits	Pass
The subject generator's full output current is 88 A. The total full output current of all DER downstream of the feeder breaker is 98 A. When taking minimum loading into account, the expected backfeed is approximately 44 A. Detailed Load Flow Analysis shows that the 336.4 AL mainline conductors upstream of the Project, rated at 441 A, are thermally capable for this Project. The Station getaway rated at 640 A is thermally capable for this Project.			
Equipment Ratings	Withstand (fault current)	<90% withstand limits	Pass
The additional fault current contribution from the generation does not contribute to interrupting ratings in excess of existing EPS equipment.			
Protection	Unintentional Islanding	Unintentional Islanding Document & Company Guidelines	**Fail**
The subject generator is a 2 MW PV generation system. The subject generation exceeds the Company's criteria for islanding a distributed resource under light load conditions. **Therefore, the Project will require a National Grid protection and control package.** **The Subject generation also requires for the one upstream recloser (R30097) to be replaced with a new 6IVS recloser capable of voltage supervised reclose blocking.**			
Protection	Protective device coordination	Company Guidelines	**Fail**
There is one protective device between the subject generator's POI and the substation - a recloser R930097 at Pole #3 ½ Bridge Street, Amsterdam, NY. As discussed in Unintentional Islanding, this recloser will be replaced with a new 6IVS recloser capable of voltage supervised reclose blocking. The Customer currently proposes a customer owned 3-100k fuse for site protection. This proposed fuse does not provide adequate coordination with the proposed Customer owned interface transformer inrush curve, and a larger fuse will not provide adequate coordination with upstream protective devices. **Therefore, the Interconnection Customer shall be required to utilize a microprocessor device equipped with utility grade relay that provides adequate coordination with the Company's upstream protective devices accordance with IEEE 242 Table 15-3.** R930097 - Pole #3 ½ Bridge Street, New 6IVS Recloser: - OC Phase Relay: Kyle 132 Curve, PU: 480, Time Multiplier =1.0. - OC Ground Relay: Kyle 164 Curve, PU: 330, Time Multiplier =1.0. If the Interconnection Customer installs an automated clearing device utilizing a utility grade relay, the 50 and 51 functions must be enabled as highlighted by ESB 756B to provide appropriate co-ordination with the interconnected distribution.			

Protection	Fault Sensitivity	Rated capabilities of EPS equipment	Pass
The additional fault current contribution from the generation does not contribute to interrupting ratings in excess of existing EPS equipment.			
Protection	Ground Fault Detection	Reduction of reach > x%	Pass
The Interconnection Customer has proposed a one (1) 112.5 kVA, 600 V grounded wye primary to 208 V delta secondary grounding transformer with an impedance of 4% and X/R ratio of 4. This grounding transformer satisfies Company guidelines for effective grounding; however, a shunt trip scheme will be required to interlock the grounding bank to the main switchboard. With this grounding bank in place, the Interconnection Customer will contribute approximately 70 A of 3I0 current to remote bolted line to ground faults and 145 A to faults at the PCC.			
Protection	Overvoltage - Transmission System Fault	Company 3V0 criteria	**Fail**
The generation to load ratio on the serving distribution system has failed the Company's planning threshold in which transmission ground fault overvoltage become an electrical hazard due to the distribution source contribution. An evaluation of the existing EPS has been performed and it has been determined that ground fault overvoltage protection, commonly known as a 3V0 protection scheme, is already in place at the Florida substation. Therefore, no additional upgrades are required.			
Protection	Overvoltage - Distribution System Fault	< 125 % voltage rise	Pass
With subject generator interconnected the modeled voltage rise on the unfaulted phases of the system is 119.9%.			
Protection	Effective Grounding	R0/X1 < 1 and X0/X1 < 3	Pass
With the subject generator interconnected the modeled R0/X1 is 0.97621 and the X0/X1 is 2.31793.			
SCADA	Required EMS Visibility for Generation Sources	Monitoring & Control Requirements	**Fail**
The 2 MW subject generator triggers the requirement for SCADA reporting to the Utility. **This requirement is covered by the National Grid Protection and Control Package (e.g. the PCC Recloser).**			

6.0 MITIGATIONS FOR SYSTEM IMPACT ANALYSIS FAILURES

Detail below is intended to provide sufficient information and clarity to give the Interconnection Customer an understanding of the relationship of costs and scope associated with the DER interconnection and the system modifications due to the DER impact. Where scope items are identified, associated labor, equipment rentals and indirect project support functions (such as engineering and project management) are intended and implied.

Upgrade Required	Option 1 – 2,000 kW	Failures Addressed
National Grid Protection and Control Package	[redacted]	Unintentional Islanding & Required EMS Visibility for Generation Sources
Upgrade Pole #15 1/2 Cleveland Avenue, Amsterdam, NY 3-333 kVA Midline Regulator with Bi-directional Control for cogeneration capability	[redacted]	Feeder Regulation for Reverse Power
Setting change for Midline Regulator on Pole #8 1/2 Thayer Road, Amsterdam, NY	[redacted]	Fluctuation
Setting change for Midline Regulator on Pole #15 1/2 Cleveland Road, Amsterdam, NY	[redacted]	Fluctuation
Setting change for Midline Regulator on Pole #115 1/2 State Route 5S, Amsterdam, NY	[redacted]	Fluctuation
Replace the recloser on Pole #3 ½ Bridge Street, Amsterdam, NY with a new recloser capable of voltage supervised reclosing.	[redacted]	Unintentional Islanding

Additional details on the scope of each option can be found below:

The Distribution upgrades required to facilitate the proposed installation include the following:

- National Grid Protection and Control Package (Recloser, Switches, and Poles) & SCADA Integration (equipment integrated into the PCC recloser)
- Upgrade Pole #15 1/2 Cleveland Avenue, Amsterdam, NY 3-333 kVA Midline Regulator with Bi-directional Control for cogeneration capability
- Setting change for Midline Regulator on Pole #8 1/2 Thayer Road, Amsterdam, NY
- Setting change for Midline Regulator on Pole #15 1/2 Cleveland Avenue, Amsterdam, NY
- Setting change for Midline Regulator on Pole #115 1/2 State Route 5S, Amsterdam, NY
- Replace the recloser on Pole #3 ½ Bridge Street, Amsterdam, NY with a new recloser capable of voltage supervised reclosing

7.0 CONCEPTUAL COST ESTIMATE

The following items are a good faith estimate for the scope and work required to interconnect the project estimated under rates and schedules in effect at the time of this study in accordance with the most recent version of the New York State Standardized Interconnection Requirements ("SIR").

[redacted]

Notes:

1. These estimated costs are based upon the results of this study and are subject to change. All costs anticipated to be incurred by the Company are listed.
2. The Company will reconcile actual charges upon project completion and the Interconnection Customer will be responsible for all final charges, which may be higher or lower than estimated according to the SIR I.C step 11.
3. This estimate does not include the following:
   - additional interconnection study costs, or study rework
   - additional application fees,
   - applicable surcharges,
   - property taxes,
   - overall project sales tax,
   - future operation and maintenance costs,
   - adverse field conditions such as weather and Interconnection Customer equipment obstructions,
   - extended construction hours to minimize outage time or Company's public duty to serve,
   - the cost of any temporary construction service, or
   - any required permits.
4. Cost adders estimated for overtime would be based on 1.5 and 2 times labor rates if required for work beyond normal business hours. Per Diems are also extra costs potentially incurred for overtime labor.