

# APPLICATION FOR BUILDING PERMIT

The Village of Irvington | 85 Main St | Irvington NY 10533

Application Number:	631	Date:	07/28/2022
Job Location:	16 ILINKA LN	Parcel ID:	2.130-67-5
Property Owner:	Leslie, Coulter / DiToro, Natale	Property Class:	1 FAMILY RES
Occupancy:	One/ Two Family	Zoning:	
Common Name:			

Applicant	Contractor
Christopher Hale	Christopher Hale
SunBlue Energy	SunBlue Energy
147 Valley St.Sleepy Hollow NY 10591	147 Valley St. Sleepy Hollow NY 10591
9142223510	9142223510

## Description of Work

Type of Work:	Solar Panels	Applicant is:	Contractor
Work Requested by:	The Owner	In association with:	
Cost of Work (Est.):	19000.00	Property Class:	1 FAMILY RES

## Description of Work

**Installation of 13.20kW PV system consisting of 33 Hanwha 400w modules and 33 Enphase Energy microinverters on roof of residence.**

**Please Note:** Completing the application does not constitute a permit to commence construction. To obtain your permit follow the instructions on the instruction page provided on page 3.

## VILLAGE OF IRVINGTON

### BUILDING DEPARTMENT

85 MAIN STREET

IRVINGTON, NEW YORK 10533

TEL: (914) 591-8335 • FAX: (914) 591-5870



## PHOTOVOLTAIC (PV SOLAR) RESIDENTIAL SYSTEMS

### PERMIT APPLICATION CHECK LIST

Revised June 7, 2017

It is suggested that all applicants applying for a permit read and understand the manufacture installation instructions prior to applying for a building permit and attached ARB guide lines and Village code for Solar Energy Equipment.

### REQUIREMENTS TO APPLY FOR A PHOTOVOLTAIC (PV SOLAR) SYSTEM PERMIT

- ☒ 1) Apply on line at [www.irvingtonny.gov](http://www.irvingtonny.gov) for a mechanical permit, under building permits and along with your application, submit to the building department the following;
- ☒ 2) Owners phone number and email address entered in the online permit application
- ☒ 3) Evidence of Workers Compensation Insurance (on a C-105 or equivalent)
- ☒ 4) Evidence of Liability Insurance naming the Village of Irvington additional insured
- ☒ 5) A copy of the contractors Westchester County Department of Consumer Protection License
- ☒ 6) Pursuant to 9-12-A. provide evidence of notice to adjacent properties owners not less than 10 days prior to the meeting (see attached code section for more details)
- ☒ 7) Submit permit fee: *(all fees must be paid at time of submission)*
  - ☒ \$85 application fee
  - ☒ \$200 for systems up to 5 kilowatts
  - ☐ \$450 for systems above 5 kilowatts and less than 10 kilowatts
  - ☐ \$700 for systems above 10 kilowatts and less than 20 kilowatts
  - ☐ \$700 plus \$250 per additional 10 kilowatts above 20 for systems above 20 kilowatts
  - ☒ \$75 Certificate of Completion inspection and fee
- ☒ 8) An affidavit from a NYS licensed professional detailing and certifying that the existing structure meets or exceeds the minimum load requirement's as per TABLE R301.2(1) for wind and load before and after installation of the proposed equipment or the proposed upgrades to the existing structure to accomplish the aforesaid.
- ☒ 9) Drawings (signed and sealed by a NYS licensed professional) of the roof plan showing the following criteria;
  - a. ☒ Showing all proposed PV panels on all proposed roof surfaces.
  - b. ☒ Showing all equipment on all elevations including
  - c. ☒ Show / list all roof connectors and flashing details
  - d. ☒ Show compliance with section R902.4 (fire classification in accordance with UL 1703 and 3' from any lot line)
  - e. ☒ Show compliance with sections R324.3.1 through R324.7.2.5 and NFPA 70 (installation)
  - f. ☒ Show compliance with section R324.7 (access and pathways) (see attachment)
  - g. ☒ Show compliance with section R324.7.2.1-6. (roof access points) (see attachment)
  - h. ☒ Show compliance with section R324.7.3 (ground access areas) (see attachment)
  - i. ☒ Show compliance with section R324.7.4 (single ridge roofs *when applicable*) (see attachment)
  - j. ☒ Show compliance with section R324.7.5 (hip roofs *when applicable*) (see attachment)
  - k. ☒ Show compliance with section R324.7.6 (roof with valleys *when applicable*) (see attachment)
  - l. ☒ Show compliance with section R324.7.7 (allowance for smoke ventilation operations) (see attachment)
  - m. ☒ Show a Fire Department AC disconnect, located outside by the Utility meter on all systems.
- ☒ 10) Provide a drawing or manufactures cut sheets of array mounting hardware and interconnection diagram and specifications.
- ☒ 11) Provide a drawing or manufactures cut sheets of the unit mount and roof penetration's flashing system.
- ☒ 12) 3 wire diagram showing all proposed equipment as governed by the National Electrical Code (NEC)
- ☒ 13) Provide a diagram showing all proposed labels and labeling locations including; Solar AC Disconnect, Inverter Output, Connection Warning, Dual Power Source Warning, Solar AC Combiner Panel, Solar PV Circuits Only, Solar Production meter. (see attachment)
- ☒ 14) Provide snow guards on panels were snow has the potential of sliding of the panel into a neighbor's property
- ☒ 15) Pictures of dwelling showing photo shopped arrays on the structure.
- ☒ 16) Provide a drawing or photo shop picture of all proposed equipment on all effected elevations (including FD emergency disconnect switch)
- ☒ 17) A Fire Department AC disconnect, located outside by the Utility meter on all systems.






- ☒ 18) Separate Electrical Permit application by a Westchester County Department of Licensing, licensed Electrician with required insurances and the appropriate fee (must be filed by the licensed contractor, see village application for further details).
- ☒ 19) Submit signed check list with submission and appropriate building permit fee.
- ☒ 20) Applicant has provided seven copies of the entire submittal for Architectural Review Board approval. -USG drive

**Applicant Affidavit:**

Applicants Name: Florenton River LLC dba SunBlue Energy  
Applicants Address: 147 Valley St, Sleepy Hollow, NY 10591


Applicants Phone # 914-222-3510  
Applicants Email marla@sunblueenergy.com

Applicant Name: Christopher Hale, President Signature:  Date: 08/26/2022 By signing this affidavit I attest to have read the attached Solar Energy Equipment Code and the Solar Equipment Guidelines manufactures installation instructions and that all information asked for above has been submitted and that the submitted information is correct.

**General Contractor Affidavit:**


Contractors Name: Florenton River LLC dba SunBlue Energy  
Contractors Address: 147 Valley St, Sleepy Hollow, NY 10591

Contractors Phone # 914-222-3510  
Contractors Email marla@sunblueenergy.com

General Contractor Name: Christopher Hale, President Signature:  Date: 08/26/2022 By signing this affidavit I attest to being the general contractor of record for this application and will be responsible for oversite and direct supervision of same, and will maintain a valid Westchester County Department of Consumer Protection License, a valid for Workers Compensation Policy and a General Liability Policy listing the Village of Irvington as Certificate Holder and additional insured with no conditions until such time I apply for and receive a Certificate of Completion.

**Electrical Contractor Affidavit:**

Electrical Contractors Name: Candela Systems Corporation  
Electrical Contractors Address: 168 Old Saw Mill River Rd  
Hawthorne, NY 10532  
Electrical Contractors Phone # 914-248-8900  
Electrical Contractors Email projectadmin@candelasystems.com

Electrical Contractor Name: James Bernardo, President Signature:  Date: 8/26/22 By signing this affidavit I attest to being the electrical contractor of record for this application and will be responsible for oversite and direct supervision of same, and will maintain a valid Westchester County Electrical License, a valid for Workers Compensation Policy and a General Liability Policy listing the Village of Irvington as Certificate Holder and additional insured with no conditions until such time I apply for and receive a Certificate of Completion.

Note: Applications for all exterior elevation changes including photovoltaic solar systems are required to apply for, make a presentation in front of, and receive approval from the Village of Irvington Architectural Review Board (ARB) prior to issuance of a building permit. The ARB meetings are the second and fourth Mondays of the month, with a deadline for submissions one week prior to the meetings (see village web site for confirmation of meetings). Seven sets of copies of the entire application are required to be submitted at the deadline with appropriate fee at the time of submission.

Note: The following list above is given to assist in the application process. It is not intended to be a replacement for the Building or Zoning Code, County or State Regulations, or Consolidate Edison Requirements. Unique and Special projects may require additional information.

*\*Hours of Construction: Monday-Friday 7AM-7PM; Saturday 9AM-5PM; Sunday and holiday's construction is prohibited  
\*Only completed applications will be accepted with attached insurance certificates and County license*

Job Location: 16 ILINKA LN

Parcel Id: 2.130-67-5

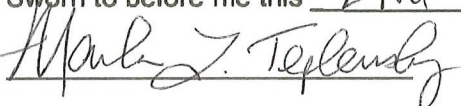
**AFFIDAVIT OF APPLICANT**

I **Christopher Hale** being duly sworn, depose and says: That s/he does business as: **SunBlue Energy** with offices at: **147 Valley St. Sleepy Hollow NY 10591** and that s/he is:

- ☐ The owner of the property described herein.
- ☐ The \_\_\_\_\_ of the New York Corporation \_\_\_\_\_ with offices at: \_\_\_\_\_ duly authorized by resolution of the Board of Directors, and that said corporation is duly authorized by the owner to make this application.
- ☐ A general partner of \_\_\_\_\_ with offices \_\_\_\_\_ and that said Partnership is duly authorized by the Owner to make this application.
- ☐ The Lessee of the premises, duly authorized by the owner to make this application.
- ☐ The Architect of Engineer duly authorized by the owner to make this application.
- ☒ The contractor authorized by the owner to make this application.

That the information contained in this application and on the accompanying drawings is true to the best of his knowledge and belief. The undersigned hereby agrees to comply with all the requirements of the New York State Uniform Fire Prevention and Building Code, the Village of Irvington Building Code, Zoning Ordinance and all other laws pertaining to same, in the construction applied for, whether or not shown on plans or specify in this application.

Sworn to before me this 29th day of August of 2022



Notary Public / Commission of Deeds

MARLA L. TEPLENSKY  
NOTARY PUBLIC, STATE OF NEW YORK  
Registration No. 01TE6364189  
Qualified in Westchester County  
Commission Expires September 5, 2025



Applicant's Signature

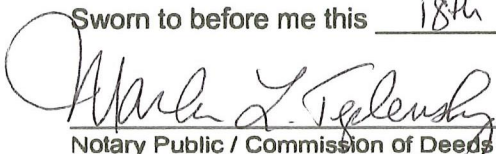
**OWNER'S AUTHORIZATION**

I **Natale Dilorio** as the owner of the subject premises and have authorized the contractor named above to perform the work under the subject application.

Owner phone number 206-399-3130 Owner email address coulterleslie@hotmail.com

- ☐ NATALE DILORIO I hereby acknowledge that it is my responsibility as the **property owner** to ensure that if the permit (if issued) receives a Final Certificate of Approval from the Building Department and further that if a Final Certificate of Approval is not obtained upon completion of the construction, a property violation may be placed on the property for which this permit is being requested.

Sworn to before me this 18th day of August of 2022



Notary Public / Commission of Deeds

MARLA L. TEPLENSKY  
NOTARY PUBLIC, STATE OF NEW YORK  
Registration No. 01TE6364189  
Qualified in Westchester County  
Commission Expires September 5, 2025



Applicant's Signature



# VILLAGE OF IRVINGTON

## BUILDING DEPARTMENT

85 MAIN STREET

IRVINGTON, NEW YORK 10533

TEL: (914) 591-8335 • FAX: (914) 591-5870

Web Site: www.Irvingtonny.gov



## LICENSED PROFESSIONAL AFFIDAVIT for RESIDENTIAL SOLAR SYSTEMS

TO BE SUBMITTED AS PART OF THE PERMIT APPLICATION

### AFFIDAVIT OF ARCHITECT OR ENGINEER

State of New York }  
County of Westchester } ss.:

I the undersigned, under penalty of perjury, do hereby affirm:

1. I am an the (architect)(engineer) duly licensed in the State of New York
2. I am the NYS licensed design professional named in the Application for which a Building Permit for a residential solar system located at 16 Ilinka Lane, Irvington, New York 10533.
3. I have inspected the existing building and structure and find that the existing structure with the proposed solar panel installation and connections to the existing roof meet the minimum criteria set forth in;  
Applicable Codes: 2015 Residential Code of New York State  
Design Roof Load: 30 psf live load, 115 psf dead load, 45 psf total load  
Design Wind Load: 120 mph, 35psf  
**OR** have proposed additional measures to insure compliance with above.
4. I have reviewed the following submitted drawings and/or manufacture specifications as part of the submission  
List applicable plans with revision dates: \_\_\_\_\_ (rev date) \_\_\_\_\_  
\_\_\_\_\_ (rev date) \_\_\_\_\_  
\_\_\_\_\_ (rev date) \_\_\_\_\_  
\_\_\_\_\_ (rev date) \_\_\_\_\_  
\_\_\_\_\_ (rev date) \_\_\_\_\_  
\_\_\_\_\_ (rev date) \_\_\_\_\_
5. The plans, drawings and specifications which the Building Permit is requested and listed above, as submitted (a)-were prepared by me or under my supervision, and (b)-to the best of my knowledge comply with the requirements of the Residential Building Code of New York State as adopted by the Village of Irvington, applicable design loads and all other applicable laws, rules and regulations governing building construction.

[Signature]  
Signature  
(Architect) Ken Hesselbacher (Engineer)

Sworn to before me this  
2nd day of August, 2022  
[Signature]  
Notary Public

MARLA L. TEPLENSKY  
NOTARY PUBLIC, STATE OF NEW YORK  
Registration No. 01TE6364189  
Qualified in Westchester County  
Commission Expires September 5, 2025



George Latimer  
Westchester County Executive



James Maisano  
Director, Consumer Protection

## Department of Consumer Protection Home Improvement License

FLORENTON RIVER LLC

SUN BLUE ENERGY

147 VALLEY STREET

SLEEPY HOLLOW, NY-10591

This license is issued in accordance with Article XVI of the Westchester County Consumer Protection Code and is valid only upon presence of the official department seal. Proof of citizenship or immigration status is not required for issuance of this license.  
NOT FOR FEDERAL PURPOSES

License Number

WC-22126-H09



Date of Expiration

08/21/2023



## CERTIFICATE OF WORKERS' COMPENSATION INSURANCE

\*\*\*\*\* 270309206

LEVITT-FUIRST ASSOCIATES LTD  
520 WHITE PLAINS ROAD, 2ND FL  
TARRYTOWN NY 10591



SCAN TO VALIDATE  
AND SUBSCRIBE

<b>POLICYHOLDER</b> FLORENTON RIVER LLC D/B/A SUN BLUE ENERGY 147 VALLEY STREET SLEEPY HOLLOW NY 10591		<b>CERTIFICATE HOLDER</b> VILLAGE OF IRVINGTON 85 MAIN ST. IRVINGTON NY 10533	
<b>POLICY NUMBER</b> G2081 492-7	<b>CERTIFICATE NUMBER</b> 167052	<b>POLICY PERIOD</b> 06/29/2022 TO 06/29/2023	<b>DATE</b> 8/23/2022

THIS IS TO CERTIFY THAT THE POLICYHOLDER NAMED ABOVE IS INSURED WITH THE NEW YORK STATE INSURANCE FUND UNDER POLICY NO. 2081 492-7, COVERING THE ENTIRE OBLIGATION OF THIS POLICYHOLDER FOR WORKERS' COMPENSATION UNDER THE NEW YORK WORKERS' COMPENSATION LAW WITH RESPECT TO ALL OPERATIONS IN THE STATE OF NEW YORK, EXCEPT AS INDICATED BELOW.

**IF YOU WISH TO RECEIVE NOTIFICATIONS REGARDING SAID POLICY, INCLUDING ANY NOTIFICATION OF CANCELLATIONS, OR TO VALIDATE THIS CERTIFICATE, VISIT OUR WEBSITE AT [HTTPS://WWW.NYSIF.COM/CERT/CERTVAL.ASP](https://www.nysif.com/cert/certval.asp). THE NEW YORK STATE INSURANCE FUND IS NOT LIABLE IN THE EVENT OF FAILURE TO GIVE SUCH NOTIFICATIONS.**

THIS POLICY DOES NOT COVER THE SOLE PROPRIETOR, PARTNERS AND/OR MEMBERS OF A LIMITED LIABILITY COMPANY.

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS NOR INSURANCE COVERAGE UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICY.

NEW YORK STATE INSURANCE FUND

DIRECTOR, INSURANCE FUND UNDERWRITING

VALIDATION NUMBER: 89283565



## CERTIFICATE OF INSURANCE COVERAGE DISABILITY AND PAID FAMILY LEAVE BENEFITS LAW

### PART 1. To be completed by Disability and Paid Family Leave Benefits Carrier or Licensed Insurance Agent of that Carrier

1a. Legal Name & Address of Insured (use street address only)

FLORENTON RIVER LLC  
DBA SUN BLUE ENERGY  
147 VALLEY ST  
SLEEPY HOLLOW, NY 10591

1b. Business Telephone Number of Insured  
(917) 386-5050

Work Location of Insured (Only required if coverage is specifically limited to  
certain locations in New York State, i.e., a Wrap-Up Policy)

1c. Federal Employer Identification Number of Insured or Social Security  
Number

270309206

2. Name and Address of Entity Requesting Proof of Coverage  
(Entity Being Listed as the Certificate Holder)

VILLAGE OF IRVINGTON  
85 MAIN STREET  
IRVINGTON, NY 10533

3a. Name of Insurance Carrier

New York State Insurance Fund (NYSIF)

3b. Policy Number of Entity Listed in Box "1a"

DBL 5837 14 - 2

3c. Policy effective period

08/14/2022 to 08/14/2023

4. Policy provides the following benefits:

- ☒ A. Both disability and paid family leave benefits  
☐ B. Disability benefits only  
☐ C. Paid family leave benefits only

5. Policy covers:

- ☒ A. All of the employer's employees eligible under the NYS Disability and Paid Family Leave Benefits Law  
☐ B. Only the following class or classes of employer's employees:

\_\_\_\_\_  
\_\_\_\_\_

Under penalty of perjury, I certify that I am an authorized representative or licensed agent of the insurance carrier referenced above and that the named insured has NYS Disability and/or Paid Family Leave Benefits insurance coverage as described above.

Date Signed 8/23/2022

By

*Kristin Markwica*

(Signature of insurance carrier's authorized representative or NYS Licensed Insurance Agent of that insurance carrier)

Telephone Number (866) 697-4332

Name and Title Kristin Markwica, Head of Disability Insurance Unit

IMPORTANT: If Box 4A and 5A are checked, and this form is signed by the insurance carrier's authorized representative or NYS Licensed Insurance Agent of that carrier, this certificate is COMPLETE. Mail it directly to the certificate holder.

If Box 4B, 4C or 5B is checked, this certificate is NOT COMPLETE for purposes of Section 220, Subd. 8 of the NYS Disability and Paid Family Leave Benefits Law. It must be mailed for completion to the Workers' Compensation Board, DB Plans Acceptance Unit, PO Box 5200, Binghamton, NY 13902-5200

### PART 2. To be completed by the NYS Workers' Compensation Board (Only if Box 4C or 5B of Part 1 has been checked)

#### State of New York Workers' Compensation Board

According to information maintained by the NYS Workers' Compensation Board, the above-named employer has complied with the NYS Disability and Paid Family Leave Benefits Law with respect to all of his/her employees.

Date Signed \_\_\_\_\_

By

(Signature of Authorized NYS Workers' Compensation Board Employee)

Telephone Number \_\_\_\_\_

Name and Title \_\_\_\_\_

**Please Note:** Only insurance carriers licensed to write NYS disability and paid family leave benefits insurance policies and NYS licensed insurance agents of those insurance carriers are authorized to issue Form DB-120.1. Insurance brokers are NOT authorized to issue this form.





FLORRIV-01

CDOLCE

# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

7/20/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> <b>Levitt-Fuirst Associates, LTD</b> <b>520 White Plains Road</b> <b>2nd Floor</b> <b>Tarrytown, NY 10591</b>		<b>CONTACT NAME:</b> Kevin Kelley <b>PHONE (A/C, No, Ext):</b> (914) 457-4200 <b>FAX (A/C, No):</b> (914) 457-4200 <b>E-MAIL ADDRESS:</b> info@levittfuirst.com	
<b>INSURED</b> <b>FLORENTON RIVER LLC</b> <b>dba Sun Blue Energy</b> <b>147 Valley Street</b> <b>Sleepy Hollow, NY 10591</b>		<b>INSURER(S) AFFORDING COVERAGE</b> <b>INSURER A : Southwest Marine &amp; General Insurance Company</b> <b>INSURER B : New York State Insurance Fund</b> <b>INSURER C :</b> <b>INSURER D :</b> <b>INSURER E :</b> <b>INSURER F :</b>	
		<b>NAIC #</b> <b>12294</b> <b>36102</b>	

## COVERAGES

## CERTIFICATE NUMBER:

## REVISION NUMBER:


THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY			GL202200013184	7/29/2022	7/29/2023	EACH OCCURRENCE \$ 1,000,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000
							MED EXP (Any one person) \$ 5,000
							PERSONAL & ADV INJURY \$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE \$ 2,000,000
	<input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC						PRODUCTS - COMP/OP AGG \$ 2,000,000
	OTHER:						AGGREGATE CAPPE \$ 5,000,000
	<b>AUTOMOBILE LIABILITY</b>						COMBINED SINGLE LIMIT (Ea accident) \$
	<input type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS						BODILY INJURY (Per person) \$
	<input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY						BODILY INJURY (Per accident) \$
							PROPERTY DAMAGE (Per accident) \$
							\$
	<b>UMBRELLA LIAB</b> <input type="checkbox"/> OCCUR						EACH OCCURRENCE \$
	<b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE						AGGREGATE \$
	<b>DED</b> <input type="checkbox"/> <b>RETENTION \$</b> <input type="checkbox"/>						\$
B	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b>			20814927	6/29/2020	6/29/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	N/A				E.L. EACH ACCIDENT \$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
							E.L. DISEASE - POLICY LIMIT \$ 1,000,000
B	<b>NYS Disability</b>			DBL 538714-2	8/14/2019	8/14/2023	Limit - Statutory

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
 Village of Irvington - is included as Additional Insured for covered operations of the named insured,

## CERTIFICATE HOLDER

## CANCELLATION

<b>Village of Irvington</b> <b>85 Main St.</b> <b>Irvington, NY 10533</b>	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE 

PROXY STATEMENT

Date: \_\_\_\_\_

To:

Village of Irvington

Town: \_\_\_\_\_

85 Main St, Irvington, NY 10533

Address: \_\_\_\_\_

Attn: Building Department

Ref: Installation of a Solar PV System

16 Ilinka Lane, Irvington, NY 10533

Customer Address: \_\_\_\_\_

Subject: Authorization for installation of a Solar Electric System

To Whom it May Concern:

I, NATALE DI TORIO (owner) authorize SunBlue Energy (installer) to act  
on my behalf in the installation of a 13.2 kW solar electric system at the above mentioned  
address. If you have any questions, I can be reached at 206-399-3130 (phone #).

\* Natale Di Torio  
Customer Signature

8-18-22  
Date





PROXY STATEMENT

Date: \_\_\_\_\_

To: Village of Irvington

Town: 85 Main St, Irvington, NY 10533

Address: \_\_\_\_\_

Attn: Building Department

Ref: Installation of a Solar PV System

16 Ilinka Lane, Irvington, NY 10533

Customer Address: \_\_\_\_\_

Subject: Authorization for installation of a Solar Electric System

To Whom it May Concern:

I, Coulter Leslie & DANIELA DI IORIO (owner) authorize SunBlue Energy (installer) on my behalf in the installation of a 13.2 kW solar electric system at the above mentioned address. If you have any questions, I can be reached at 206-399-3130 (phone #).



Customer SignatureDate



THIS IS TO CERTIFY THAT I HAVE SURVEYED  
 Lot 4, as shown on, "Subdivision Map of  
 Woodlane East, situated in the Village  
 of Irvington, Westchester Co., N.Y.

W-669195  
 RICHARD A. SPINELLI  
 117 WAGNER AVE.  
 MAMARONECK, N. Y.  
 TEL. 381-2357

FILED IN THE WESTCHESTER COUNTY CLERK'S OFFICE, DIVISION OF LAND RECORDS  
 (FORMERLY REGISTER'S OFFICE) July 17, 1979 AS MAP N<sup>o</sup> 19992

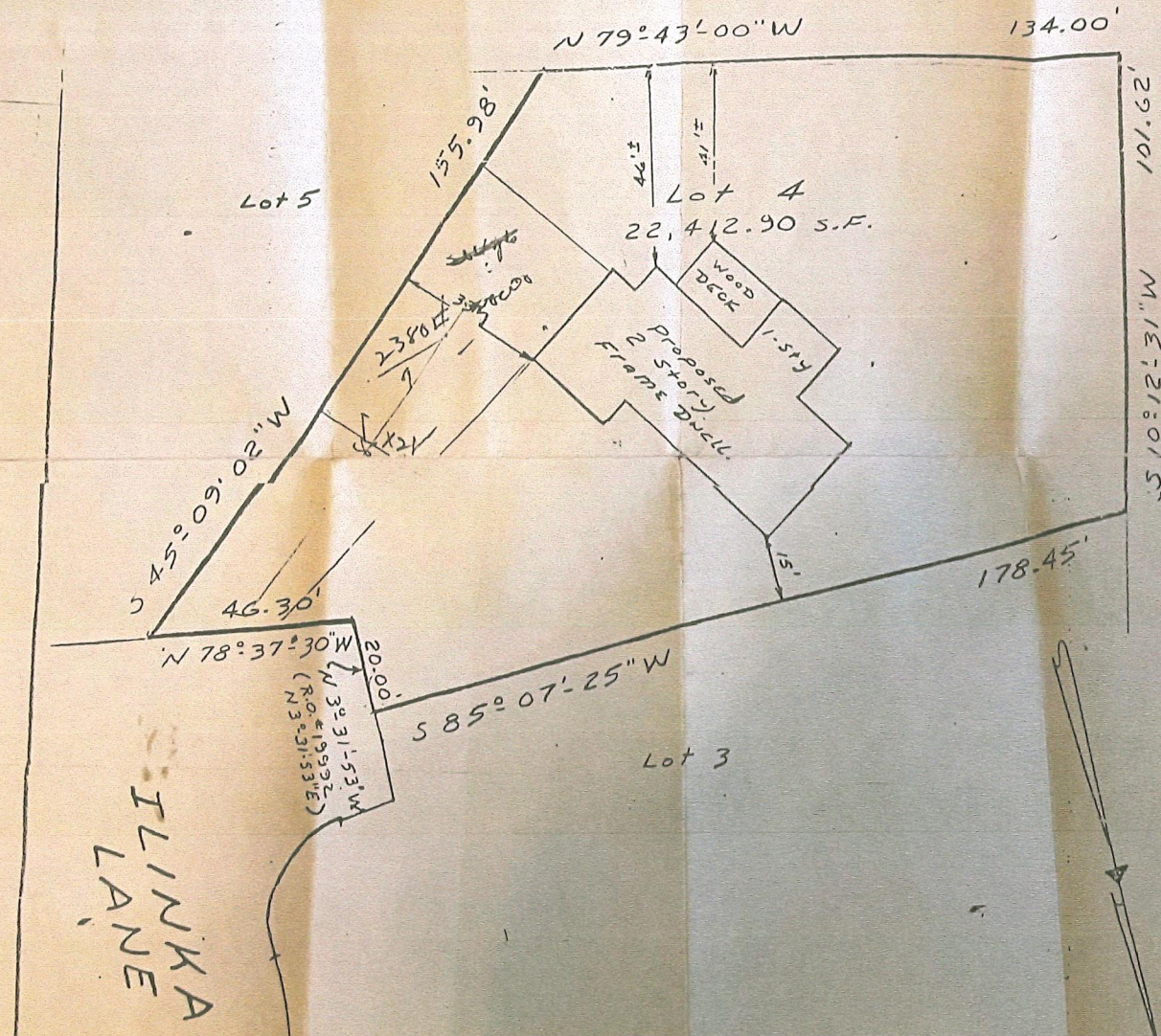
I HAVE LOCATED ALL EXISTING BUILDINGS AND LINES OF POSSESSION AS SHOWN HEREON.  
 I HEREBY CERTIFY THIS SURVEY TO  
 LIABILITY IS LIMITED. TO WHOM

SURVEY AND MAP COMPLETED April 16, 1980 SCALE ONE INCH TO 30 FEET.

GUARANTEED IN ACCORDANCE WITH THE MINIMUM STANDARDS FOR TITLE SURVEYS OF THE NEW YORK STATE LAND TITLE ASSOCIATION

NOTE: ALL CERTIFICATIONS MADE HEREON ARE VALID FOR THIS MAP AND  
 COPIES THEREOF ONLY IF SAID MAP OR COPIES BEAR THE IMPRESSED  
 SEAL OF THE SURVEYOR WHOSE SIGNATURE APPEARS HEREON.

*Richard A. Spinelli*  
 RICHARD A. SPINELLI  
 N. Y. S. LIC. LAND SURVEYOR NO. 49240  
 SUCCESSOR TO GUY VROMAN  
 & SAL SPINELLI





# NOTICE OF APPLICATION AND HEARING

Board of Architectural Review

Clerk's Office

Village of Irvington

Westchester County, New York

CERTIFIED MAIL

Date of Mailing [REDACTED]

## NOTICE:

Pursuant to 9-12 of the code of the Village of Irvington notice to adjacent neighbors (as defined below) is required 10 days prior a meeting where an application for Solar Panels to the Village of Irvington Architectural Board is asking to be heard.

Date of Meeting: September 28, 2022  
Time of Meeting: Meeting starts at 8pm  
Location of Meeting: Trustees Meeting Room  
85 Main St. Irvington, NY 10533

Applicant Name	SunBlue Energy	Owners Name	Coulter Leslie
Applicant Mailing Address	147 Valley St Sleepy Hollow, NY 10591	Owner Mailing Address	16 Ilinka Lane Irvington, NY 10533
Applicant Phone Number	914-222-3510	Owners Phone Number	206-399-3130
Applicant Email Address	marla@sunblueenergy.com	Owners Email Address	coulterleslie@hotmail.com

## Address of Proposed Solar Panels:

Street Address 16 Ilinka Lane  
Irvington, NY 10533

To Adjacent Neighbors of: Mosberg, Michael - 23 Beechwood Rd, Irvington, NY  
Dagli, Sanatkumar - 25 Beechwood Rd, Irvington, NY  
Sobol, Michael - 12 Ilinka Ln, Irvington, NY  
Lee, Leson - 20 Ilinka Ln, Irvington, NY  
Segall, Brian - 24 Ilinka Ln, Irvington, NY  
Luftig, David - 38 Butterwood Ln, Irvington, NY

Please take notice that the applicant named above is requesting the Board of Architectural Review of the Village of Irvington to grant a permit for the installation of **Solar Energy Equipment** to the address listed above.

Plans of the proposed work are available in the office of the Irvington Building Department for public inspection during regular business hours 5 days prior to the scheduled meeting.

## 9-12. Solar Energy Equipment.

For any application for a building permit for solar energy equipment, written notice of the application and the date, time and place of the meeting at which it will be considered must be given to all adjacent property\* owners not less than 10 days prior to the meeting date. Notice shall be by a method of mail or a delivery service company providing proof of mailing or delivery or by personal service of such notice on the property owners, evidenced by their signature as acknowledgment of receipt of such notice on a form supplied or similar to one supplied by the Village Clerk. Proof of service of the notice shall be filed prior to or at the meeting at which the application is considered.

("Adjacent property" refers to any neighbor that shares a property line with the subject property as well as neighbors across any street from the subject property.)

DAGLI, SANATKUMAR S  
25 BEECHWOOD RD  
IRVINGTON, NY 10533

DI IORIO, NATALE  
16 ILINKA LN  
IRVINGTON, NY 10533

← Homeowner

LUFTIG, DAVID  
38 BUTTERWOOD LN E  
IRVINGTON, NY 10533

SOBOL, MICHAEL  
12 ILINKA LN  
IRVINGTON, NY 10533

LEE, LESON B.H.  
20 ILINKA LN  
IRVINGTON, NY 10533

Also:

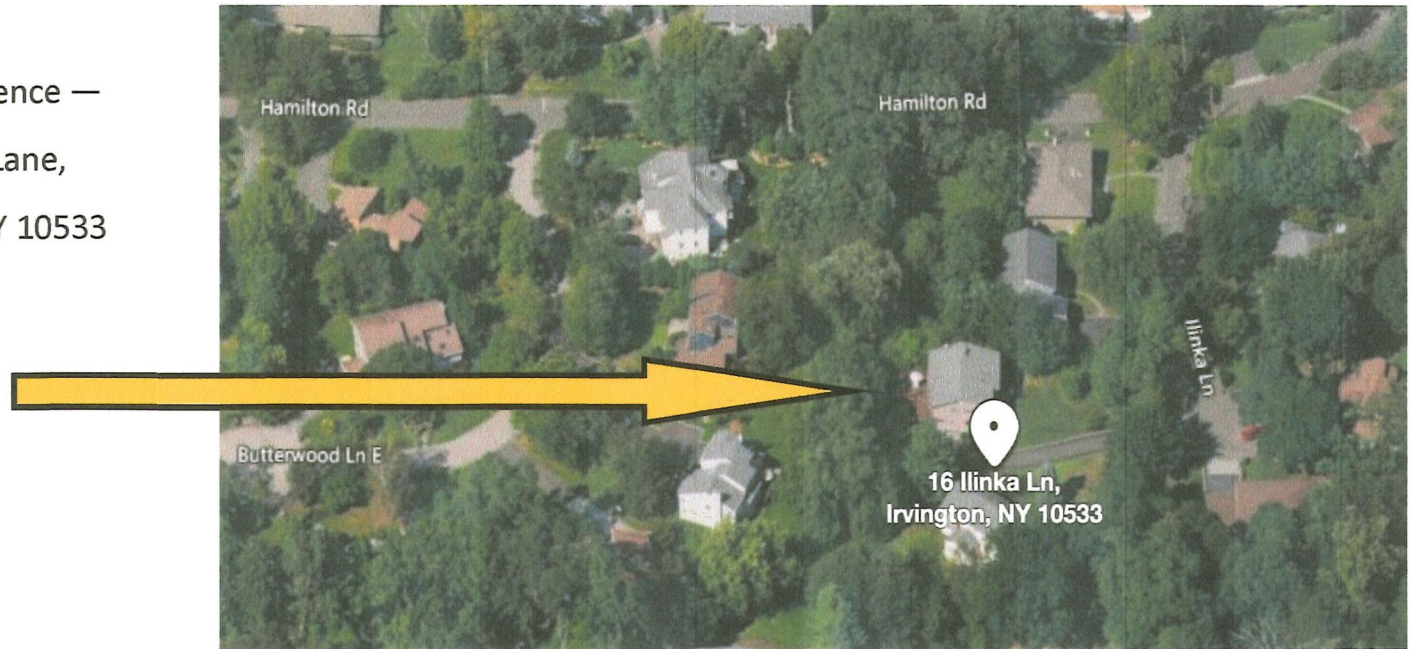
Mosberg, Michael  
23 Beechwood Rd.  
Irvington, NY 10533

Segall, Brian  
24 Ilinka Lane  
Irvington, NY 10533



## Solar Building Permit Application for Leslie Residence, 16 Ilinka Lane

Leslie Residence —  
16 Ilinka Lane,  
Irvington, NY 10533



147 Valley Street

Sleepy Hollow, NY 10591

914-222-3510



## Solar Building Permit Application for Leslie Residence, 16 Ilinka Lane



View looking down street to left  
from Leslie residence

<=====

View looking down street to right  
from Leslie residence

=====>





**Solar Building Permit Application for Leslie Residence, 16 Ilinka Lane**



View looking across street from Leslie residence



147 Valley Street

Sleepy Hollow, NY 10591

914-222-3510



## Solar Building Permit Application for Leslie Residence, 16 Ilinka Lane



Aerial view of Leslie residence with  
panels superimposed -  
Panels not drawn to scale



View looking at Leslie residence with  
panels superimposed —  
Panels not drawn to scale



Kenneth Hesselbacher, P.E.  
26 Rocky Hill Rd  
New Fairfield, C.T. 06812

August 23, 2022

Christopher Hale  
SunBlue Energy  
147 Valley St  
Sleepy Hollow NY 10591

Subject – Structural Analysis – Existing Roof  
Leslie - 16 Ilinka Lane  
Irvington, NY 10533

Dear Mr. Hale,

As requested, an analysis of the existing roof in terms of the proposed solar array you plan to install on the existing south facing roof areas has been performed. The proposed array of 33 panels - will add an additional dead load of approximately 1,650lbs to the roof.

The roofs are framed with 2" x 8" rafters – 16" OC spanning 14' with 2" x 4" rafter ties 48" OC at mid span. The capacity of sections of the roof structural framing has been evaluated in accordance with the 2020 NYS Residential Code and referenced standards. The existing roof with the addition of Solar has the capacity to handle the addition of the Solar System.

The existing roof with the addition of Solar Panels attached with Mounting Hardware (Designed for 120 MPH), has the capacity to handle the addition of the Solar System with regard to IRC section IRC Table R301.2(1)- Wind Speed Design of 100MPH.

Sincerely,  
Kenneth Hesselbacher, P.E.







CROTON FALLS  
8 FRONT ST  
CROTON FALLS, NY 10519-9800  
(800)275-8777

08/31/2022 11:09 AM

Product	Qty	Unit	Price
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First-Class Mail® Letter	1		\$0.60
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Irvington, NY 10533  
Weight: 0 lb 0.40 oz  
Estimated Delivery Date  
Fri 09/02/2022

Certified Mail® Tracking #:  
70191640000044936248

Total \$4.60

First-Class Mail® Letter	1		\$0.60
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Irvington, NY 10533  
Weight: 0 lb 0.40 oz  
Estimated Delivery Date  
Fri 09/02/2022

Certified Mail® Tracking #:  
70191640000044936231

Total \$4.60

First-Class Mail® Letter	1		\$0.60
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Irvington, NY 10533  
Weight: 0 lb 0.40 oz  
Estimated Delivery Date  
Fri 09/02/2022

Certified Mail® Tracking #:  
70191640000044936446

Total \$4.60

First-Class Mail® Letter	1		\$0.60
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Irvington, NY 10533  
Weight: 0 lb 0.40 oz  
Estimated Delivery Date  
Fri 09/02/2022

Certified Mail® Tracking #:  
70191640000044936439

Total \$4.60

First-Class Mail® Letter	1		\$0.60
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Irvington, NY 10533  
Weight: 0 lb 0.40 oz  
Estimated Delivery Date  
Fri 09/02/2022

Certified Mail® Tracking #:  
70191640000044936422

Total \$4.60

First-Class Mail® Letter	1		\$0.60
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Irvington, NY 10533  
Weight: 0 lb 0.40 oz  
Estimated Delivery Date  
Fri 09/02/2022

Certified Mail® Tracking #:  
70191640000044936415

Total \$4.60

Grand Total: \$27.60

Credit Card Remit  
Card Name: VISA  
Account #: XXXXXXXXXX1380  
Approval #: 011380  
Transaction #: 087  
AID: A0000000031010 Contactless  
AL: VISA CREDIT

### U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com).  
Irvington, NY 10533

Certified Mail Fee	\$4.00	0027
Extra Services & Fees (check box, add fee)	\$0.00	03
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.60	
Total Postage and Fees	\$4.60	

Sent To: Lufts, David  
Street and Apt. No., or PO Box No.  
33 Beechwood Lane  
City, State, ZIP+4®  
Irvington, NY 10533

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Total Postage and Fees	\$4.60	

Sent To: Dash, Sanatkumar  
Street and Apt. No., or PO Box No.  
25 Beechwood Rd  
City, State, ZIP+4®  
Irvington, NY 10533

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Postage	\$0.60	
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Sent To: Mosberg, Michael  
Street and Apt. No., or PO Box No.  
23 Beechwood Rd  
City, State, ZIP+4®  
Irvington, NY 10533

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Postage	\$0.60	
Total Postage and Fees	\$4.60	

Sent To: Lee, Leon  
Street and Apt. No., or PO Box No.  
20 Link Lane  
City, State, ZIP+4®  
Irvington, NY 10533

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.60	
Total Postage and Fees	\$4.60	

Sent To: Sobol, Michael  
Street and Apt. No., or PO Box No.  
12 Link Lane  
City, State, ZIP+4®  
Irvington, NY 10533

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Postage	\$0.60	
Total Postage and Fees	\$4.60	

Sent To: Segall, Brian  
Street and Apt. No., or PO Box No.  
24 Link Lane  
City, State, ZIP+4®  
Irvington, NY 10533

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



# NOTICE OF APPLICATION AND HEARING

Board of Architectural Review

Clerk's Office

Village of Irvington

Westchester County, New York

## CERTIFIED MAIL

Date of Mailing 8/31/2022

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Date of Meeting: September 28, 2022  
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Location of Meeting: Trustees Meeting Room  
85 Main St. Irvington, NY 10533

Applicant Name SunBlue Energy  
Applicant Mailing Address 147 Valley St  
Sleepy Hollow, NY 10591  
Applicant Phone Number 914-222-3510  
Applicant Email Address marla@sunblueenergy.com

Owners Name Coulter Leslie  
Owner Mailing Address 16 Ilinka Lane  
Irvington, NY 10533  
Owners Phone Number 206-399-3130  
Owners Email Address coulterleslie@hotmail.com

### Address of Proposed Solar Panels:

Street Address 16 Ilinka Lane  
Irvington, NY 10533

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### 9-12. Solar Energy Equipment.

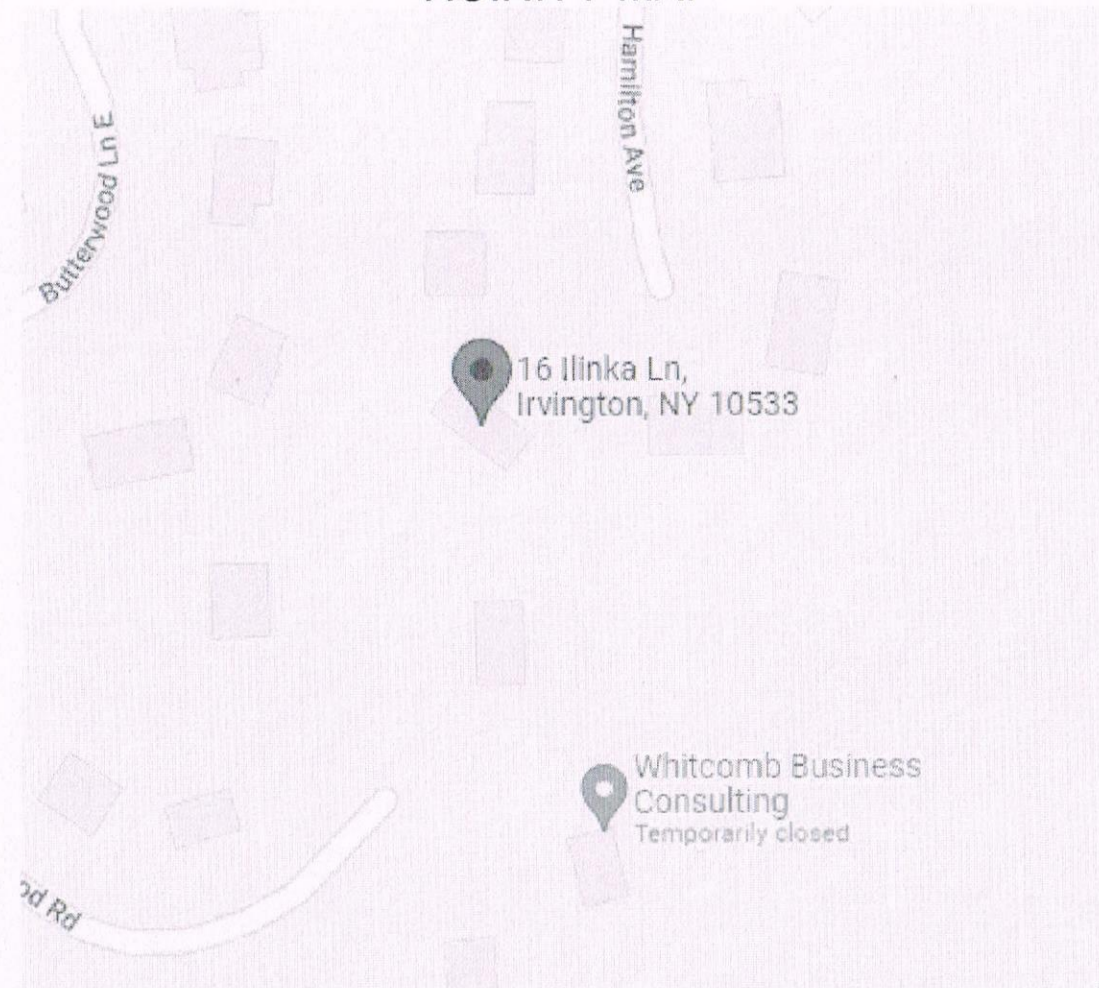
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# AERIAL VIEW



# VICINITY MAP



**SunBlue**  
ENERGY

SUN BLUE  
147 Valley St.  
Sleepy Hollow, NY 10591  
1-914-222-3510

CONFIDENTIAL - THE INFORMATION HEREIN CONTAINED SHALL NOT BE USED FOR THE BENEFIT OF ANYONE EXCEPT SUN BLUE ENERGY NOR SHALL IT BE DISCLOSED IN WHOLE OR IN PART TO OTHERS OUTSIDE RECIPIENT'S ORGANIZATION, EXCEPT IN CONNECTION WITH THE SALE AND USE OF THE RESPECTIVE EQUIPMENT, WITHOUT THE WRITTEN PERMISSION OF DBM SOLAR DESIGN AND CONSULTING COMPANY, LLC

SITE INFORMATION:  
Coulter Leslie  
16 Ilinka Lane  
Irvington, NY 10533  
DC SYSTEM SIZE:  
13.20 kW



**DBM DESIGN**

DBM SOLAR DESIGN AND CONSULTING COMPANY, LLC  
P: (801) 690-4873  
E: SUPPORT@DBMSOLAR.COM  
WWW.DBMSOLAR.COM

DESIGNED BY:  
**N. Flowers**

DATE:  
**8/23/2022**

PROJECT #  
**2021-SUN BLUE**

SHEET NAME:  
**COVER PAGE**

PAGE #  
**1/1**

REVISION:  
**1**

## SHEET INDEX

PAGE NUMBER	PAGE TITLE
PV01	TITLE PAGE
PV02	SITE PLAN
PV03/PV03-1	ONE LINE & THREE LINE DIAGRAMS
PV04	ARRAY & STRINGING DETAIL
PV05	LABEL PLAN
PV06	ATTACHMENT DETAILS
SPECS	SPECSHEETS AND DOCUMENTS

## APPLICABLE CODES

2017 NATIONAL ELECTRICAL CODE (NEC)  
2020 RESIDENTIAL CODE OF NEW YORK STATE

## OCCUPANCY & CONSTRUCTION TYPE

OCCUPANCY - R3  
CONSTRUCTION - V-B



Set Reviewed By:  
PV-041115-011207

## GENERAL NOTES

- ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODES.
- DRAWINGS HAVE BEEN DETAILED ACCORDING TO UL LISTING REQUIREMENTS.
- PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY DBM OF ANY INCONSISTENCIES.
- ALL EQUIPMENT SHALL BE INSTALLED AS SHOWN.
- WARNINGS PER NEC 690.
- WIRING SHALL NOT BE INSTALLED WITHIN 10 INCHES OF ROOF DECKING EXCEPT WHERE DIRECTLY BELOW PV EQUIPMENT

## SCOPE OF WORK

DC System Size: 13.2kW  
Roof Type: Asphalt/Composite Shingle  
Roof Pitch: 5/12, 3/12  
Anchored on 48" centers using UL listed racking system  
UV Resistant cable ties (not zip ties) used for permanent wire management in accordance with NEC 110.2, 110.3(A-B), 300.4  
Junction boxes mounted flush with racking.

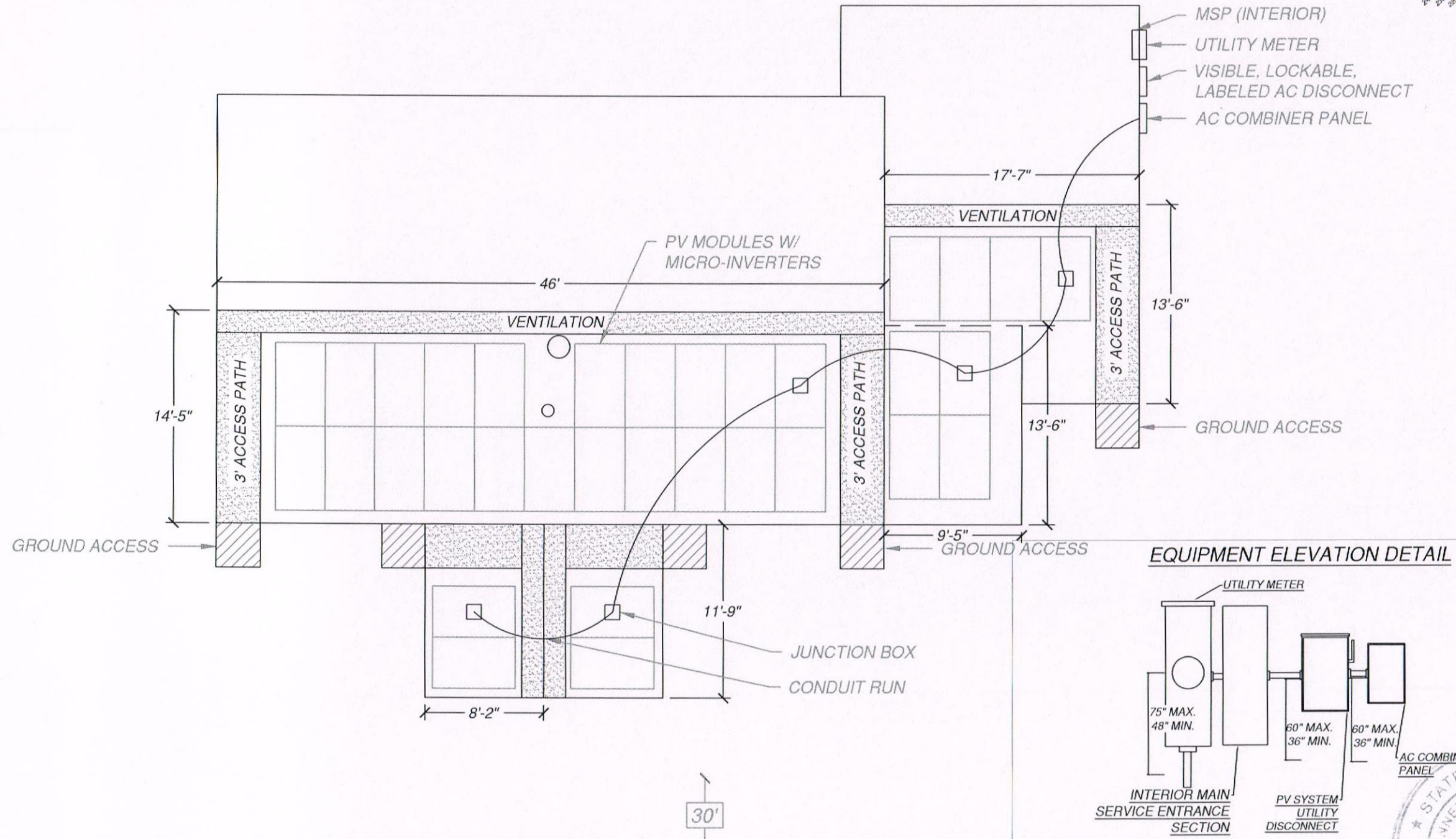
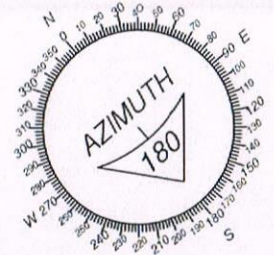
## DESIGN CRITERIA

WIND SPEED: 130 MPH  
EXPOSURE CATEGORY: C

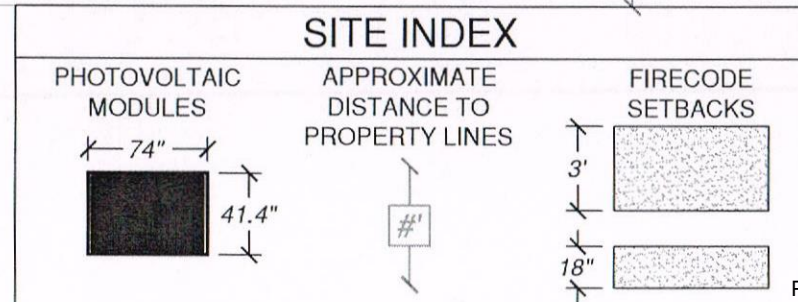
## SYSTEM SUMMARY

MODULE: (33) HANWHA Q.PEAK DUO BLK ML-G10+ 400 PV Module  
INVERTER: (33) Enphase IQ8PLUS-72-2-US Micro Inverters  
RACKING: IRONRIDGE Roof Mounted PV System





- AC DISCONNECT LOCATED 10' OR LESS FROM UTILITY METER
- CONDUIT RUNS AND JUNCTION BOX LOCATIONS TO BE DETERMINED IN THE FIELD.
- EQUIPMENT LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED IN THE FIELD
- WIRES LOCATED IN READILY ACCESSIBLE LOCATIONS SHALL BE GUARDED PER NEC 690.31(A)



ARRAY DETAIL				
	A	B	C	D
AZIMUTH	220°	220°	310°	130°
TILT ANGLE	22°	15°	15°	15°
MODULE COUNT	25	4	2	2
ROOF SUPPORTS	Rafter = 2X8 @ 16" O.C.			



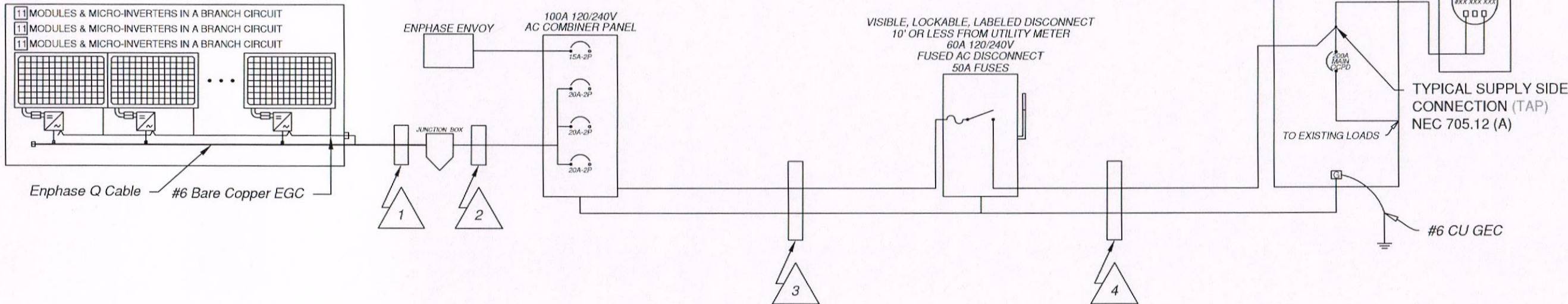
PV MODULE SPECIFICATIONS	
MANUFACTURER	Hanwha Q.PEAK
MODEL	DUO BLK ML-G10+ 400
MAX POWER-POINT CURRENT (Imp)	10.77A
MAX POWER-POINT VOLTAGE (Vmp)	37.13V
OPEN CIRCUIT VOLTAGE (Voc)	45.30V
SHORT CIRCUIT CURRENT (Isc)	11.14A
MAX SERIES FUSE (OCPD)	20A
MAX POWER (Pmax)	400W
MAX VOLTAGE (Vdc)	1000V

INVERTER SPECIFICATIONS	
MANUFACTURER	Enphase
MODEL	ENPHASE IQ8PLUS-72-2-US
GROUND	UNGROUND
AC OUTPUT VOLTAGE	240V
MAX OUTPUT POWER	300VA
CEC RATED OUTPUT POWER	290VA
RATED OUTPUT CURRENT	1.21A
MAX INPUT CURRENT	15 A
MAX DC INPUT VOLTAGE	60V
CEC WEIGHTED EFFICIENCY	97%
MAX FUSE (OCPD)	20 A

PHOTOVOLTAIC AC OUTPUT LABEL	
AC OUTPUT CURRENT	39.93A
NOMINAL AC VOLTAGE	240V

PV LOAD CALCULATIONS: SUPPLY SIDE TIE-IN	
200A RATED FEEDER WIRES	
200A ÷ 1.25 =	160A
160A (FEEDER WIRES ALLOWABLE SOLAR)	
160A AVAILABLE FOR PV	
705.12(A) & 690.59	

ConEd account name: N Di Iorio  
ConEd account number: 51-1702-6495-0000-9  
ConEd meter number: 009162688



### ELECTRICAL NOTES

- ALL COMPONENTS SHALL COMPLY WITH NECAS AMENDED.
- PHASE CONDUCTORS SHALL BE IDENTIFIED
- ALL WIRES SHALL BE PROVIDED WITH STRAIN RELIEF UPON ENTRY INTO BOXES, REFER TO MANUFACTURERS INSTALLATION MANUAL FOR REQUIRED TORQUE VALUES
- THE DC GEC, IF USED, SHALL BE CONTINUOUS FROM THE INVERTER GROUND BUS TO THE MAIN SERVICE GROUNDING ELECTRODE SYSTEM
- ATTACHMENT TO GROUND ELECTRODE SHALL USE IRREVERSIBLE CLAMP.
- ALL EXPOSED METAL PARTS SHALL BE GROUNDED USING TIN PLATED COPPER LAY IN LUGS OR GROUNDING CLIPS LISTED FOR THE PURPOSE
- MIN #10 BARE COPPER EGC AT SOURCE CIRCUITS SHALL BE ROUTED SECURELY TO MOUNTING HARDWARE THAT PROTECTS FROM PHYSICAL DAMAGE
- #6 FOR AREAS THAT MAY BE SUBJECT TO DAMAGE
- BOTH ENDS OF ALL METALLIC CONDUIT SHALL BE BONDED PER NEC250
- INTERCONNECTION PER NEC690
- ALL WIRES WILL BE RATED AT THHN/THWN-2
- CONDUIT AND CONDUCTOR SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING AS REQUIRED BY FIELD CONDITIONS
- PV PRODUCTION TERMINATED IN LOAD SIDES OF ALL AC DISCONNECTS

- All Exposed PV rooftop conductors that are not located under the array modules, shall be installed in a listed raceway, and shall include listed junction boxes at both ends of the raceway to transition from exposed conductors to the listed raceways. In Accordance with NEC 690.31(A) & (B)\*\*
- ROMEX AMPACITY LIMITED TO 60° VALUES. IF USED, SIZE ACCORDING TO NEC TABLE 310.15
- DC Conduit must be marked in accordance with NEC 690.31. Labeling must be every 10' and must comply with NEC 690.31. See PV05 for Label plan
- ALL DC Conductors must be protected with metal conduit

CONDUCTOR SCHEDULE WITH NEC ELECTRICAL CALCULATIONS												
ID	CONDUCTOR	CONDUIT	NO. OF CNDRS. IN CNDT.	RATED AMPS	EGC	TEMP. CORR. FACTOR	FILL ADJ. FACTOR	CONT. CURRENT	MAX. CURRENT	BASE AMPACITY	DERATED AMPACITY	WIRE RUN DISTANCE
1	ENPHASE Q CABLE	FREE AIR	N/A	13.31A MAX	#12 TRUNK CABLE	0.96	N/A	13.31A	16.64A	25A	24.00A	20ft
2	10 AWG THWN-2 CU	3/4" DIA EMT	6	13.31A MAX	10 AWG THWN-2 CU	0.96	0.8	13.31A	16.64A	35A	26.88A	20ft
3	6 AWG THWN-2 CU	3/4" DIA EMT	3	39.93A	10 AWG THWN-2 CU	0.96	1.0	39.93A	49.91A	65A	62.40A	5ft
4	6 AWG THWN-2 CU	3/4" DIA EMT	3	39.93A	8 AWG THWN-2 CU	0.96	1.0	39.93A	49.91A	65A	62.40A	5ft

**SunBlue**  
ENERGY

SUN BLUE  
147 Valley St.  
Sleepy Hollow, NY 10591  
1-914-222-3510

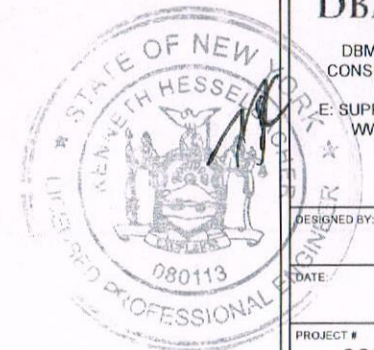
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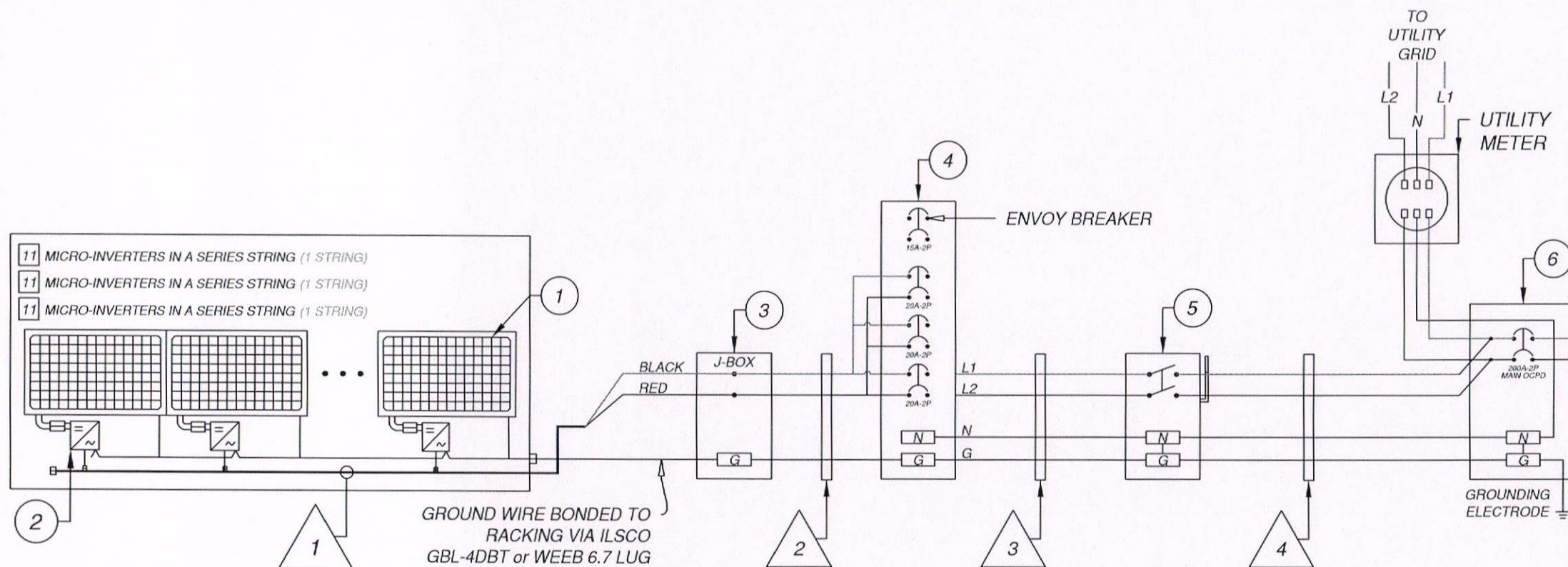
DBM SOLAR DESIGN AND CONSULTING COMPANY, LLC  
P: (801) 690-4873  
E: SUPPORT@DBMSOLAR.COM  
WWW.DBMSOLAR.COM



DESIGNED BY: N. Flowers  
DATE: 8/23/2022  
PROJECT #: 2021-SUN BLUE  
SHEET NAME: 1LD/ ELECTRICAL DETAIL  
PAGE #: 1  
REVISION:



<div>1</div> <table><tr><th colspan="2">PV MODULE SPECIFICATIONS</th></tr><tr><td>MANUFACTURER</td><td>Hanwha Q.PEAK</td></tr><tr><td>MODEL</td><td>DUO BLK ML-G10+ 400</td></tr><tr><td>MAX POWER-POINT CURRENT (Imp)</td><td>10.77A</td></tr><tr><td>MAX POWER-POINT VOLTAGE (Vmp)</td><td>37.13V</td></tr><tr><td>OPEN CIRCUIT VOLTAGE (Voc)</td><td>45.30V</td></tr><tr><td>SHORT CIRCUIT CURRENT (Isc)</td><td>11.14A</td></tr><tr><td>MAX SERIES FUSE (OCPD)</td><td>20A</td></tr><tr><td>MAX POWER (Pmax)</td><td>400W</td></tr><tr><td>MAX VOLTAGE (Vdc)</td><td>1000V</td></tr></table>	PV MODULE SPECIFICATIONS		MANUFACTURER	Hanwha Q.PEAK	MODEL	DUO BLK ML-G10+ 400	MAX POWER-POINT CURRENT (Imp)	10.77A	MAX POWER-POINT VOLTAGE (Vmp)	37.13V	OPEN CIRCUIT VOLTAGE (Voc)	45.30V	SHORT CIRCUIT CURRENT (Isc)	11.14A	MAX SERIES FUSE (OCPD)	20A	MAX POWER (Pmax)	400W	MAX VOLTAGE (Vdc)	1000V	<div>2</div> <div><div>INVERTER</div><div>ENPHASE IQ8PLUS-72-2-US</div><div>Max Output: 300VA</div><div>CEC Rated Output: 290VA</div><div>Rated Output Current: 1.21A</div><div>Max Input Current: 15A</div><div>Max Input Voltage: 60V</div><div>Max Fuse: 20A</div></div>	<div>3</div> <div><div>JUNCTION</div><div>BOX</div></div>	<div>4</div> <div><div>AC COMBINER PANEL</div><div>100A 120/240V</div><div>NON-FUSED</div></div>	<div>5</div> <div><div>PV AC DISCONNECT</div><div>60A 120/240V</div><div>FUSED - 50A FUSES</div><div>AC DISCONNECT</div><div>Lockable, with visible open Knife Blade Disconnect. Clearly visible, accessible and within 10' of billing meter.</div></div>	<div>6</div> <div><div>MAIN SERVICE PANEL</div><div>120/240V</div><div>200A Main Bus</div><div>200A Main OCPD</div><div>INTERCONNECTION</div><div>SUPPLY SIDE TAP</div></div>	<div><div><div>SunBlue</div><div>ENERGY</div></div><div><div>SUN BLUE</div><div>147 Valley St.</div><div>Sleepy Hollow, NY 10591</div><div>1-914-222-3510</div></div><div><div>CONFIDENTIAL - THE INFORMATION</div><div>HEREIN CONTAINED SHALL NOT BE</div><div>USED FOR THE BENEFIT OF ANYONE</div></div></div>
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CONDUCTOR SCHEDULE WITH NEC ELECTRICAL CALCULATIONS												
ID	CONDUCTOR	CONDUIT	NO. OF CNDRS. IN CNDT.	RATED AMPS	EGC	TEMP. CORR. FACTOR	FILL ADJ. FACTOR	CONT. CURRENT	MAX. CURRENT	BASE AMPACITY	DERATED AMPACITY	WIRE RUN DISTANCE
1	ENPHASE Q CABLE	FREE AIR	N/A	13.31A MAX	#12 TRUNK CABLE	0.96	N/A	13.31A	16.64A	25A	24.00A	20ft
2	10 AWG THWN-2 CU	3/4" DIA EMT	6	13.31A MAX	10 AWG THWN-2 CU	0.96	0.8	13.31A	16.64A	35A	26.88A	20ft
3	6 AWG THWN-2 CU	3/4" DIA EMT	3	39.93A	10 AWG THWN-2 CU	0.96	1.0	39.93A	49.91A	65A	62.40A	5ft
4	6 AWG THWN-2 CU	3/4" DIA EMT	3	39.93A	8 AWG THWN-2 CU	0.96	1.0	39.93A	49.91A	65A	62.40A	5ft

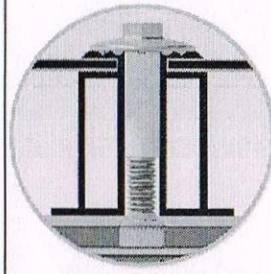
**DBM DESIGN**

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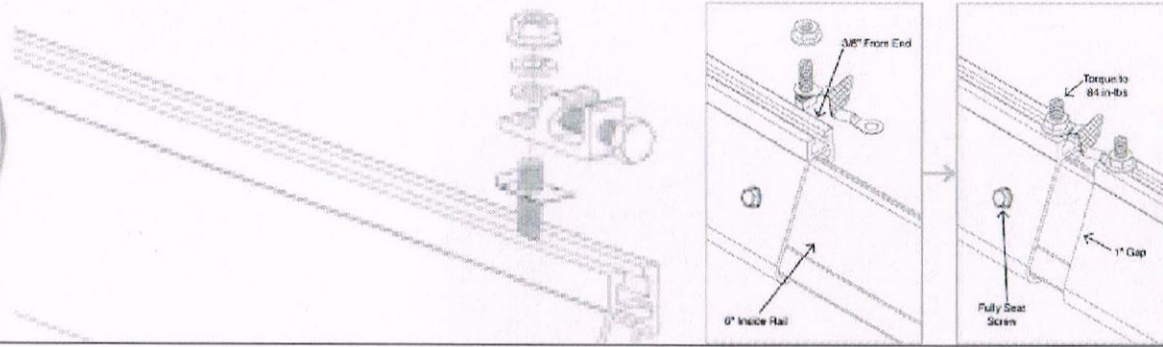
DESIGNED BY:	N. Flowers
DATE:	8/23/2022
PROJECT #	2021-SUN BLUE
SHEET NAME:	3LD/ ELECTRICAL DETAIL
PAGE #	1
REVISION:	



# GROUNDING DETAIL



**Universal Fastening Object (UFO)**  
The UFO securely bonds solar modules to XPS Rafters. It comes assembled and sub-assembled, and can be used in a wide range of module heights.



# ATTACHMENT DIAGRAM

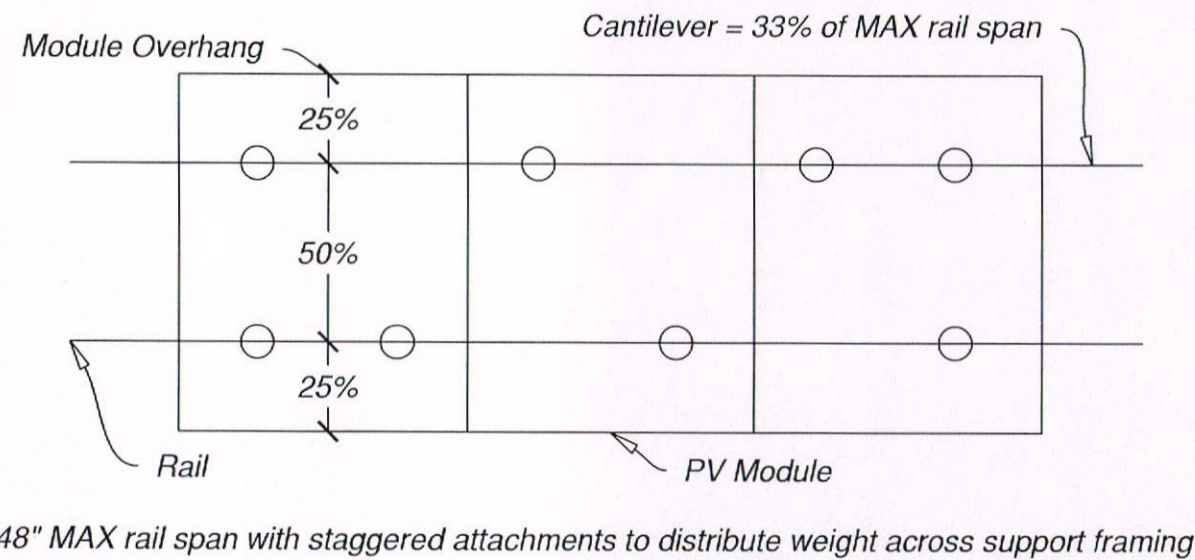
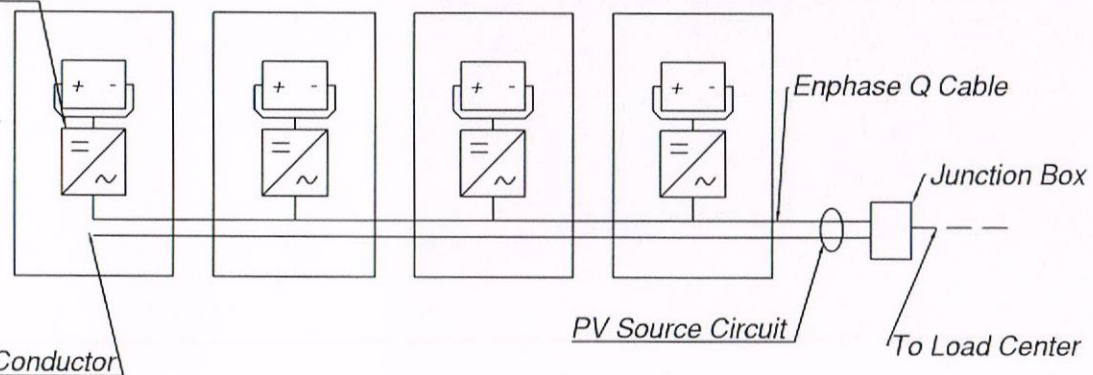
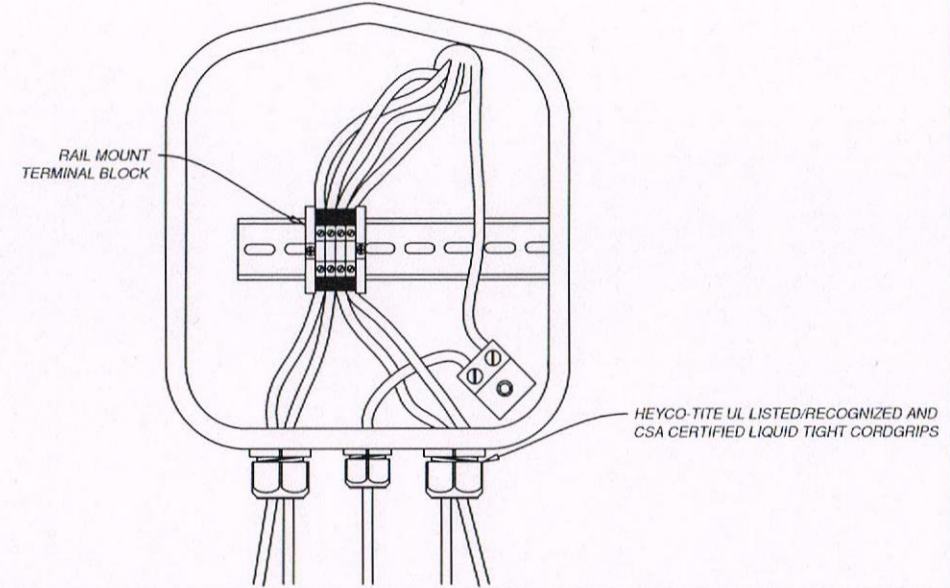


Diagram: Grid-Tied System W/ Micro-Inverters

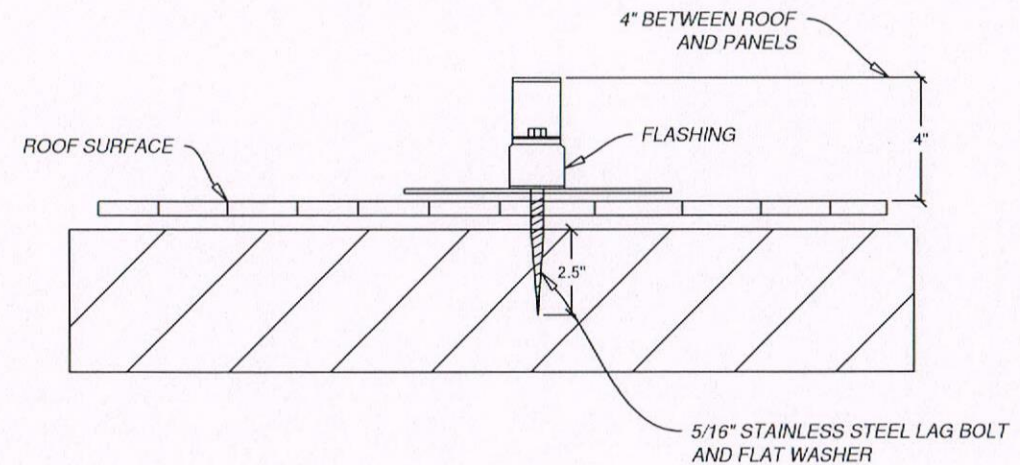
Enphase Micro-Inverter



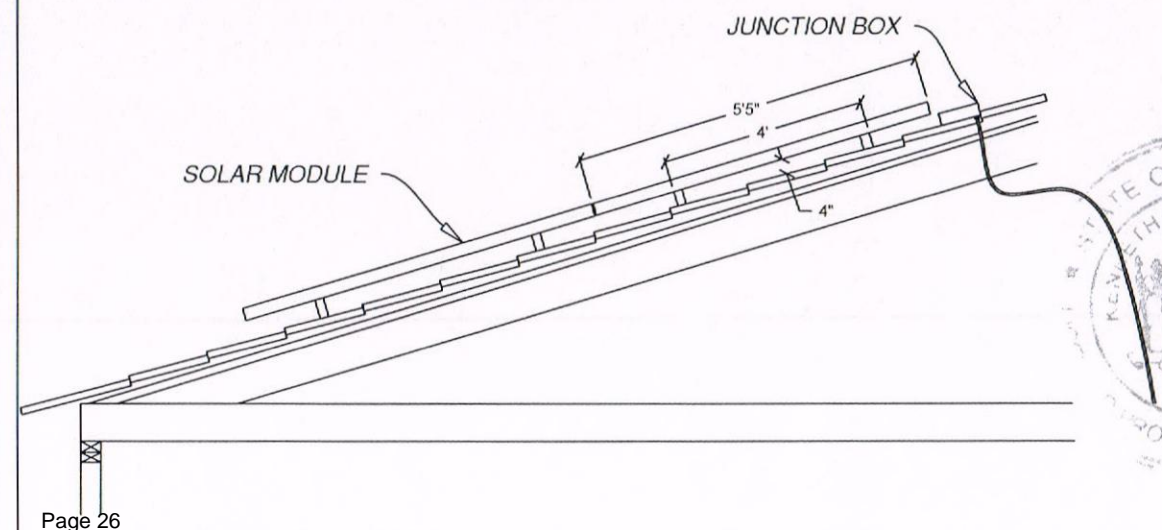
# JUNCTION BOX DETAIL



# ATTACHMENT DETAIL



# PV ATTIC DETAIL



**SunBlue**  
ENERGY

SUN BLUE  
147 Valley St.  
Sleepy Hollow, NY 10591  
1-914-222-3510

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SITE INFORMATION:  
Coulter Leslie

16 linka Lane  
Irrington, NY 10533

DC SYSTEM SIZE:  
13.20 kW

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DESIGNED BY:  
N. Flowers

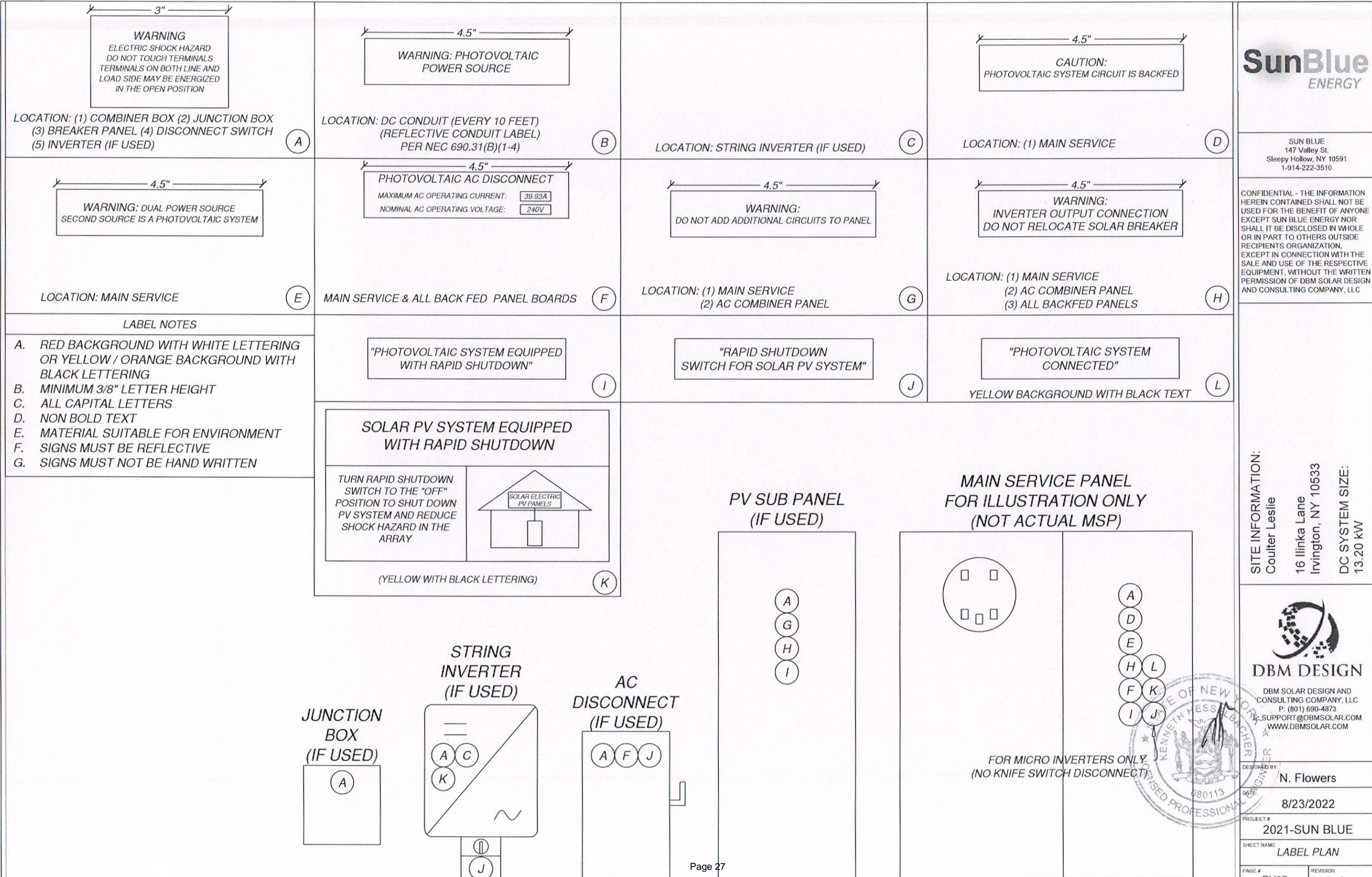
DATE:  
8/23/2022

PROJECT #:  
2021-SUN BLUE

SHEET NAME:  
ARRAY/STRINGING DETAIL

PAGE #  
REVISION:







SITE INFORMATION:  
Coulter Leslie  
16 Ilinka Lane  
Irvington, NY 10533  
DC SYSTEM SIZE:  
13.20 kW



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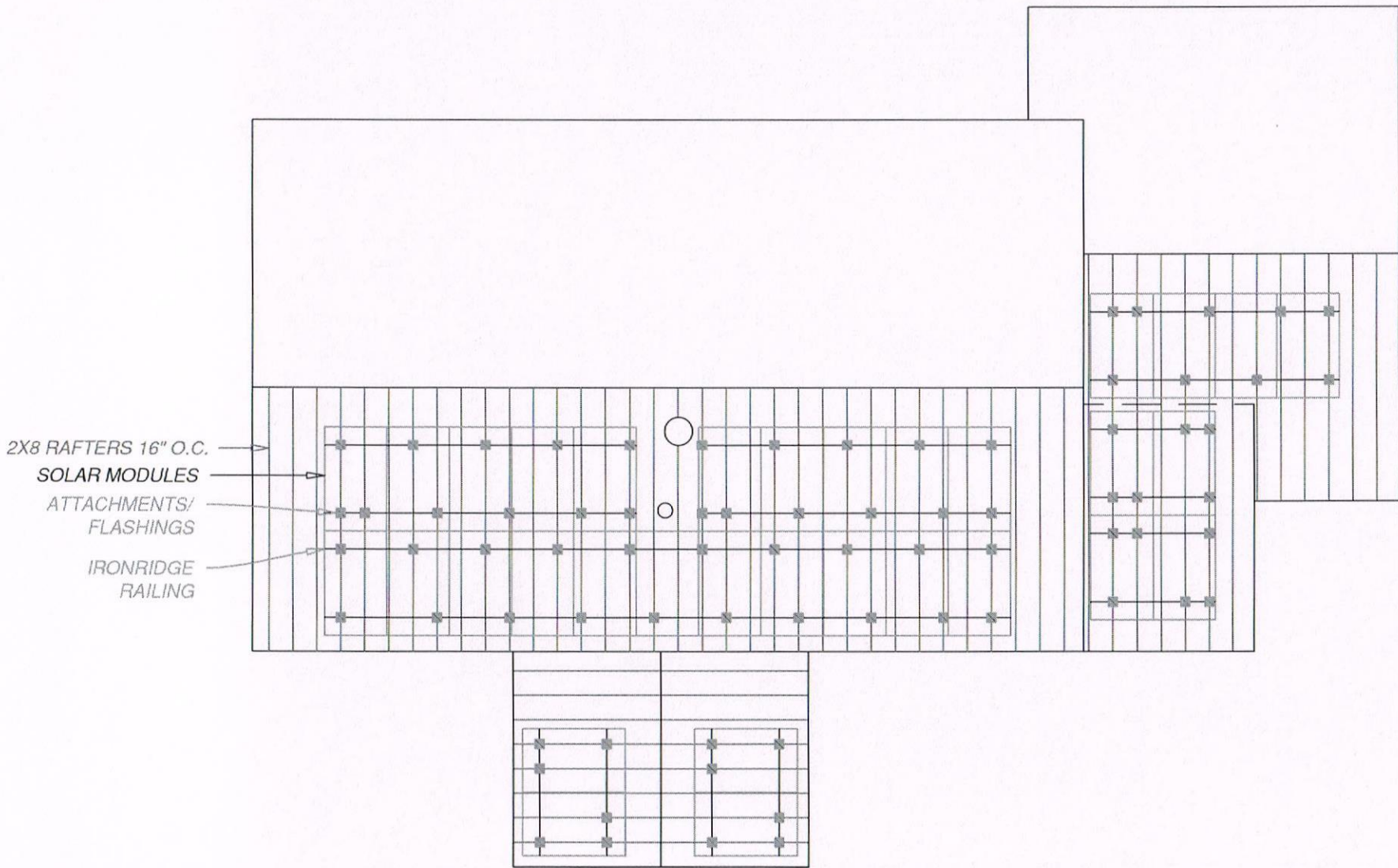
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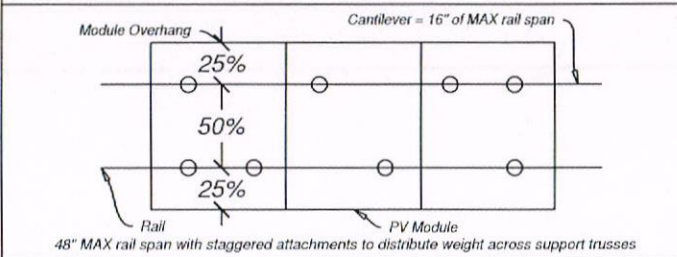


2X8 RAFTERS 16" O.C.  
SOLAR MODULES  
ATTACHMENTS/  
FLASHINGS  
IRONRIDGE  
RAILING

ATTACHMENT NOTES

1	Roof members and penetrations to be determined in the field
2	No roof penetrations shall be made within 12" of a roof valley.
3	The solar photovoltaic installation shall not obstruct any plumbing, mechanical, or building roof vents.
4	Flashing shall be applied in accordance with manufacturers' printed instructions.
5	If there is any conflict between what is depicted here and instructions provided by the manufacturer, manufacturers' instructions shall supercede.

ATTACHMENT DIAGRAM





# SOLAR MODULE SPECSHEET

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SALE AND USE OF THE RESPECTIVE  
EQUIPMENT, WITHOUT THE WRITTEN  
PERMISSION OF DBM SOLAR DESIGN  
AND CONSULTING COMPANY, LLC

SITE INFORMATION:

Coulter Leslie

16 Ilinka Lane  
Irvington, NY 10533

DC SYSTEM SIZE:  
13.20 kW



DBM SOLAR DESIGN AND  
CONSULTING COMPANY, LLC  
P: (801) 690-4873  
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DESIGNED BY:  
N. Flowers

DATE:  
8/23/2022

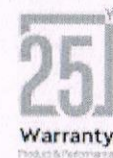
PROJECT #  
2021-SUN BLUE

SHEET NAME:  
SPEC SHEETS

PAGE #  
REVISION

powered by  
**Q.ANTUM DUO Z**

**Q.PEAK DUO BLK ML-G10+**  
**385-405**  
ENDURING HIGH  
PERFORMANCE



**BREAKING THE 20% EFFICIENCY BARRIER**  
Q.ANTUM DUO Z Technology with zero gap cell layout  
boosts module efficiency up to 20.9%.



**THE MOST THOROUGH TESTING PROGRAMME IN THE INDUSTRY**  
Q CELLS is the first solar module manufacturer to pass the most comprehensive quality programme in the industry: The new "Quality Controlled PV" of the independent certification institute TÜV Rheinland.



**INNOVATIVE ALL-WEATHER TECHNOLOGY**  
Optimal yields, whatever the weather with excellent low-light and temperature behavior.



**ENDURING HIGH PERFORMANCE**  
Long-term yield security with Anti LID Technology, Anti PID Technology\*, Hot-Spot Protect and Traceable Quality Tra.Q™.



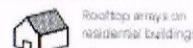
**EXTREME WEATHER RATING**  
High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



**A RELIABLE INVESTMENT**  
Inclusive 25-year product warranty and 25-year linear performance warranty\*.

\* APT test conditions according to IEC / TS 62804-1:2019, method A (p=1500V, 96h)  
\* See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:

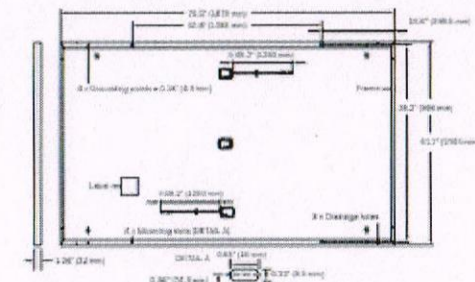


Engineered in Germany

**Q CELLS**

## MECHANICAL SPECIFICATION

Format	74.0 in x 41.1 in x 1.25 in (including frame) (1878 mm x 1045 mm x 32 mm)
Weight	48.5 lbs (22.0 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodized aluminum
Cell	6 x 22 monocrystalline Q.ANTUM solar half cells
Junction Box	2.09 x 3.98 in x 1.28 x 2.36 in x 0.59 x 0.71 in (53 x 101 mm x 32 x 60 mm x 15 x 18 mm), IP67, with bypass diodes
Cable	4 mm² Solar cable: (+) x 49.2 in (1250 mm), (-) x 49.2 in (1250 mm)
Connector	Shubil MC4; IP68



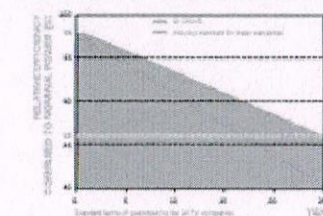
## ELECTRICAL CHARACTERISTICS

POWER CLASS		385	390	395	400	405
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC (POWER TOLERANCE ±5 W / -0 W)						
Power at MPP <sup>1</sup>	P <sub>MPP</sub> [W]	385	390	395	400	405
Short Circuit Current <sup>2</sup>	I <sub>sc</sub> [A]	11.04	11.07	11.10	11.14	11.17
Open Circuit Voltage <sup>2</sup>	V <sub>oc</sub> [V]	48.19	48.23	48.27	48.30	48.34
Current at MPP	I <sub>MPP</sub> [A]	10.05	10.05	10.11	10.17	10.23
Voltage at MPP	V <sub>MPP</sub> [V]	36.36	36.62	36.88	37.13	37.39
Efficiency <sup>3</sup>	η [%]	≥19.6	≥19.9	≥20.1	≥20.4	≥20.6
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT <sup>4</sup>						
Power at MPP	P <sub>MPP</sub> [W]	288.8	292.6	296.3	300.1	303.8
Short Circuit Current	I <sub>sc</sub> [A]	8.90	8.92	8.95	8.97	9.00
Open Circuit Voltage	V <sub>oc</sub> [V]	42.82	42.85	42.88	42.92	42.96
Current at MPP	I <sub>MPP</sub> [A]	8.35	8.41	8.46	8.51	8.57
Voltage at MPP	V <sub>MPP</sub> [V]	34.59	34.81	35.03	35.25	35.46

<sup>1</sup> Measurement tolerances: P<sub>MPP</sub> ±3%, I<sub>sc</sub> ±5%, V<sub>oc</sub> ±5% at STC: 1000 W/m², 25 ±2 °C, AM 1.5 according to IEC 60904-3 • <sup>2</sup> 800 W/m², NMOT, spectrum AM 1.5

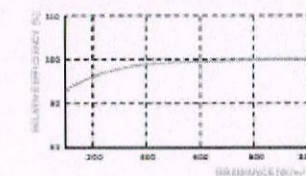
## Q CELLS PERFORMANCE WARRANTY

## PERFORMANCE AT LOW IRRADIANCE



At least 98% of nominal power during first year, thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 88% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organization of your respective country.



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²)

## TEMPERATURE COEFFICIENTS

Temperature Coefficient of I <sub>sc</sub>	α	[%/K]	+0.04	Temperature Coefficient of V <sub>oc</sub>	β	[%/K]	-0.27
Temperature Coefficient of P <sub>MPP</sub>	γ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°F]	109 ±5.4 (43 ±3 °C)

## PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V <sub>sys</sub>	[V]	1000 (IEC) / 1000 (UL)	PV module classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI / UL 62730	TYPE 2
Max. Design Load, Push / Pull <sup>1</sup>	[lbs/ft²]	75 (3600 Pa) / 55 (2660 Pa)	Permitted Module Temperature on Continuous Duty	-40 °F up to +118 °F (-40 °C up to +48 °C)
Mpa. Test Load, Push / Pull <sup>1</sup>	[lbs/ft²]	113 (5400 Pa) / 84 (4000 Pa)		

<sup>1</sup> See Installation Manual

## QUALIFICATIONS AND CERTIFICATES

UL 61730, CE-compliant  
Quality Controlled PV - TÜV Rheinland  
IEC 62121-2018, IEC 61730-2016  
U.S. Patent No. 8,883,315 solar cells  
IEC 62121-2018, IEC 61730-2016  
IEC 62121-2018, IEC 61730-2016  
IEC 62121-2018, IEC 61730-2016



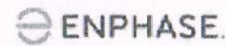
	Horizontal packaging	76.4 in	43.3 in	48.0 in	165 lbs	24
		1940 mm	1100 mm	1220 mm	75 kg	pallets

Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

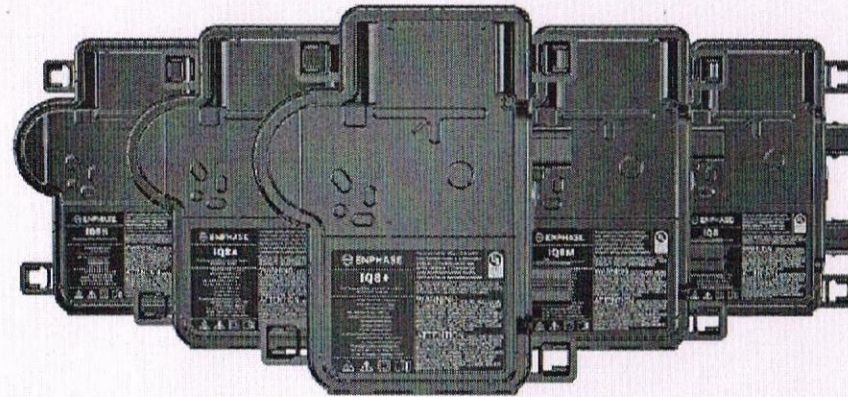
Hersteller Q CELLS America Inc.  
400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL: +1 949 748 55 55 | EMAIL: inquiry@us.q-cells.com | WEB: www.q-cells.us



# INVERTER SPECSHEET

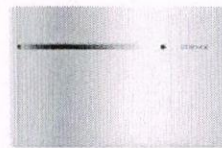


DATA SHEET



## IQ8 Series Microinverters

Our newest IQ8 Microinverters are the industry's first microgrid-forming, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. The brain of the semiconductor-based microinverter is our proprietary application-specific integrated circuit (ASIC) which enables the microinverter to operate in grid-tied or off-grid modes. This chip is built in advanced 55nm technology with high speed digital logic and has super-fast response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.



Part of the Enphase Energy System, IQ8 Series Microinverters integrate with the Enphase IQ Battery, Enphase IQ Gateway, and the Enphase App monitoring and analysis software.



Connect PV modules quickly and easily to IQ8 Series Microinverters using the included Q-DCC-2 adapter cable with plug-n-play MC4 connectors.



IQ8 Series Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industry-leading limited warranty of up to 25 years.



IQ8 Series Microinverters are UL Listed as PV Rapid Shut Down Equipment and conform with various regulations, when installed according to manufacturer's instructions.

### Easy to install

- Lightweight and compact with plug-n-play connectors
- Power Line Communication (PLC) between components
- Faster installation with simple two-wire cabling

### High productivity and reliability

- Produce power even when the grid is down
- More than one million cumulative hours of testing
- Class II double-insulated enclosure
- Optimized for the latest high-powered PV modules

### Microgrid-forming

- Complies with the latest advanced grid support
- Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid profiles
- Meets CA Rule 21 (UL 1741-SA) requirements

## IQ8 Series Microinverters

INPUT DATA (DC)		IQ8-60-2-US	IQ8PLUS-72-2-US	IQ8H-72-2-US	IQ8A-72-2-US	IQ8H-240-72-2-US	IQ8H-208-72-2-US <sup>1</sup>
Commonly used module pairings <sup>2</sup>	W	235 - 350	235 - 440	260 - 460	295 - 500	320 - 540 <sup>3</sup>	295 - 500 <sup>4</sup>
Module compatibility		60-cell/120 half-cell		60-cell/120 half-cell and 72-cell/144 half-cell			
MPPT voltage range	V	27 - 37	29 - 45	33 - 45	36 - 45	38 - 45	38 - 45
Operating range	V	25 - 48			25 - 58		
Min/max start voltage	V	30 / 48			30 / 58		
Max input DC voltage	V	50			60		
Max DC current <sup>3</sup> (module Isc)	A				15		
Overvoltage class DC port					II		
DC port backfeed current	mA				0		
PV array configuration		1x1 Ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit					
OUTPUT DATA (AC)		IQ8-60-2-US	IQ8PLUS-72-2-US	IQ8H-72-2-US	IQ8A-72-2-US	IQ8H-240-72-2-US	IQ8H-208-72-2-US
Peak output power	VA	245	300	330	366	384	366
Max continuous output power	VA	240	290	325	349	380	360
Nominal (L-L) voltage/range <sup>4</sup>	V			240 / 211 - 264			208 / 183 - 250
Max continuous output current	A	1.0	1.21	1.35	1.45	1.58	1.73
Nominal frequency	Hz			60			
Extended frequency range	Hz			50 - 68			
Max units per 20 A (L-L) branch circuit <sup>5</sup>		16	13	11	11	10	9
Total harmonic distortion				<5%			
Overvoltage class AC port				III			
AC port backfeed current	mA			30			
Power factor setting				1.0			
Grid-tied power factor (adjustable)				0.85 leading - 0.85 lagging			
Peak efficiency	%	97.5	97.6	97.6	97.6	97.6	97.4
CEC weighted efficiency	%	97	97	97	97.5	97	97
Night-time power consumption	mW			60			
MECHANICAL DATA							
Ambient temperature range		-40°C to +60°C (-40°F to +140°F)					
Relative humidity range		4% to 100% (condensing)					
DC Connector type		MC4					
Dimensions (HxWxD)		212 mm (8.3") x 175 mm (6.9") x 30.2 mm (1.2")					
Weight		1.08 kg (2.38 lbs)					
Cooling		Natural convection - no fans					
Approved for wet locations		Yes					
Acoustic noise at 1 m		<60 dBA					
Pollution degree		PD3					
Enclosure		Class II double-insulated, corrosion resistant polymeric enclosure					
Environ. category / UV exposure rating		NEMA Type 6 / outdoor					
COMPLIANCE							
		CA Rule 21 (UL 1741-SA), UL 62109-1, UL1741/IEEET547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01					
Certifications		This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 690.12 and C22.1-2018 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufacturer's instructions.					

(1) The IQ8H-208 variant will be operating in grid-tied mode only at 208V AC. (2) No enforced DC/AC ratio. See the compatibility calculator at <https://link.enphase.com/module-compatibility> (3) Maximum continuous input DC current is 10.5A (4) Nominal voltage range can be extended beyond nominal if required by the utility. (5) Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

IQ8SE-D5-0001-01-EN-US-2021-10-19

SunBlue  
ENERGY

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Sleepy Hollow, NY 10591  
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SITE INFORMATION:

Coulter Leslie  
16 Ilinka Lane  
Irvington, NY 10533  
DC SYSTEM SIZE:  
13.20 kW



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P: (801) 690-4873  
E: SUPPORT@DBMSOLAR.COM  
WWW.DBMSOLAR.COM

DESIGNED BY: N. Flowers

DATE: 8/23/2022

PROJECT # 2021-SUN BLUE

SHEET NAME: SPEC SHEETS

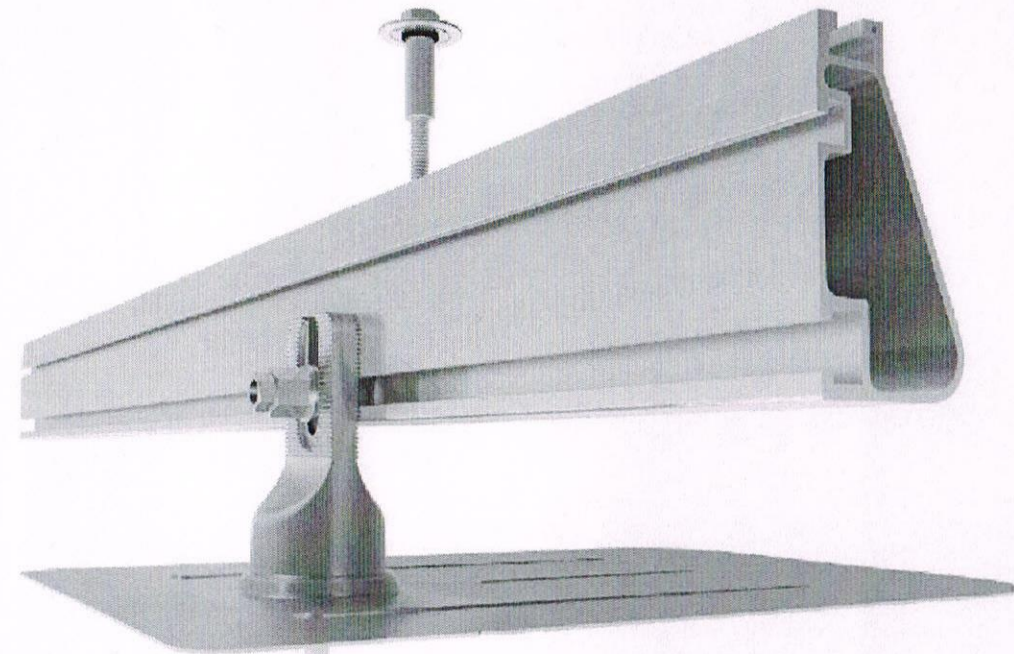
PAGE # 1 REVISION



# RACKING SPECSHEET



## Flush Mount System



### Built for solar's toughest roofs.

IronRidge builds the strongest mounting system for pitched roofs in solar. Every component has been tested to the limit and proven in extreme environments.

Our rigorous approach has led to unique structural features, such as curved rails and reinforced flashings, and is also why our products are fully certified, code compliant and backed by a 20-year warranty.



#### Strength Tested

All components evaluated for superior structural performance.



#### Class A Fire Rating

Certified to maintain the fire resistance rating of the existing roof.



#### UL 2703 Listed System

Entire system and components meet newest effective UL 2703 standard.



#### PE Certified

Pre-stamped engineering letters available in most states.



#### Design Assistant

Online software makes it simple to create, share, and price projects.



#### 20-Year Warranty

Twice the protection offered by competitors.

Datasheet

### XR Rails ☺

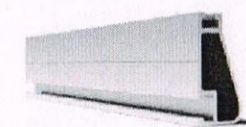
#### XR10 Rail



A low-profile mounting rail for regions with light snow.

- 6' spanning capability
- Moderate load capability
- Clear and black finish

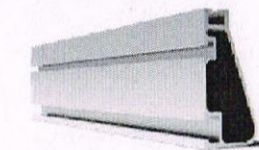
#### XR100 Rail



The ultimate residential solar mounting rail.

- 8' spanning capability
- Heavy load capability
- Clear and black finish

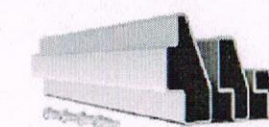
#### XR1000 Rail



A heavyweight mounting rail for commercial projects.

- 12' spanning capability
- Extreme load capability
- Clear anodized finish

#### Bonded Splices

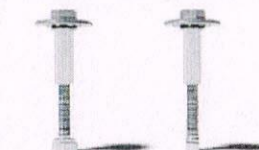


All rails use internal splices for seamless connections.

- Self-drilling screws
- Varying versions for rails
- Forms secure bonding

### Clamps & Grounding ☺

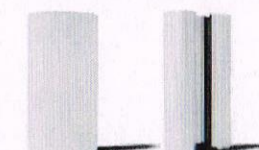
#### UFOs



Universal Fastening Objects bond modules to rails.

- Fully assembled & lubed
- Single, universal size
- Clear and black finish

#### Stopper Sleeves



Snap onto the UFO to turn into a bonded end clamp.

- Bonds modules to rails
- Sized to match modules
- Clear and black finish

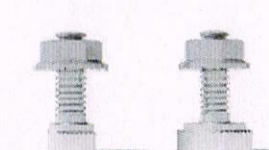
#### Grounding Lugs



Connect arrays to equipment ground.

- Low profile
- Single tool installation
- Mounts in any direction

#### Microinverter Kits



Mount MIs or POs to XR Rails.

- Bonds devices to rails
- Kit comes assembled
- Listed to UL 2703

### Attachments ☺

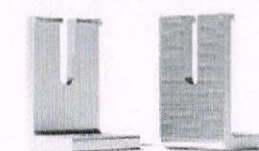
#### FlashFoot2



Flash and mount XR Rails with superior waterproofing.

- Twist-on Cap eases install
- Wind-driven rain tested
- Mill and black finish

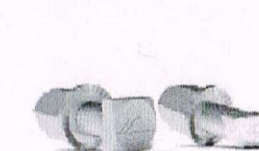
#### Slotted L-Feet



Drop-in design for rapid rail attachment.

- Secure rail connections
- Slot for vertical adjusting
- Clear and black finish

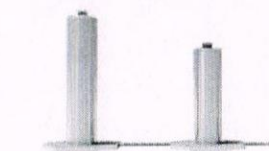
#### Bonding Hardware



Bond and attach XR Rails to roof attachments.

- T & Square Bolt options
- Nut uses 7/16" socket
- Assembled and lubricated

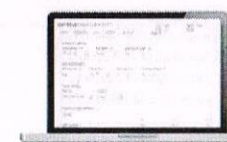
#### Flush Standoffs



Raise Flush Mount System to various heights.

- Works with vent flashing
- 4" and 7" lengths
- Ships assembled

### Resources



#### Design Assistant

Go from rough layout to fully engineered system. For free. Go to [IronRidge.com/design](http://IronRidge.com/design)



#### NABCEP Certified Training

Earn free continuing education credits while learning more about our systems. Go to [IronRidge.com/training](http://IronRidge.com/training)

**SunBlue**  
ENERGY

SUN BLUE  
147 Valley St.  
Sleepy Hollow, NY 10591  
1-914-222-3510

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SITE INFORMATION:  
Coulter Leslie

16 Ilinka Lane  
Irvington, NY 10533

DC SYSTEM SIZE:  
13.20 kW



**DBM DESIGN**  
DBM SOLAR DESIGN AND CONSULTING COMPANY, LLC  
P: (801) 690-4873  
E: [SUPPORT@DBMSOLAR.COM](mailto:SUPPORT@DBMSOLAR.COM)  
[WWW.DBMSOLAR.COM](http://WWW.DBMSOLAR.COM)

DESIGNED BY: N. Flowers

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