

NOTICE OF APPLICATION AND HEARING

Board of Architectural Review

Clerk's Office

Village of Irvington

Westchester County, New York

CERTIFIED MAIL

Date of Mailing 5/1/2023

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: 5/22/2023

Time of Meeting: Meeting starts at 8pm

Location of Meeting: Trustees Meeting Room
85 Main St. Irvington, NY 10533

Applicant Name	<u>Sunrise Solar Solutions, LLC</u>	Owners Name	<u>Mick Cartwright</u>
Applicant Mailing Address	<u>510 N State Rd</u>	Owner Mailing Address	<u>4 Deep Hollow Close</u>
	<u>Briarcliff Manor NY 10510</u>		<u>Irvington, NY 10533</u>
Applicant Phone Number	<u>9147627622</u>	Owners Phone Number	<u>917-442-5366</u>
Applicant Email Address	<u>christine@sunrisesolarllc.com</u>	Owners Email Address	<u>mickcartwright@gmail.com</u>

Address of Proposed Solar Panels:

Street Address 4 Deep Hollow Close
Irvington, NY 10533

To Adjacent Neighbors of: 4 Deep Hollow Close
Irvington NY 10533

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.)

7016 3560 0000 0956 9707

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Irvington, NY 10533

Certified Mail Fee	\$4.15
Extra Services & Fees (check box, add fee as appropriate)	\$3.35
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

0061
03

Postmark
Here

05/08/2023

Postage \$0.63

Total Postage and Fees \$8.13

Sent To **Resident**
Street and Apt. No., or PO Box No.
1 DEEP HOLLOW CLOSE
City, State, ZIP+4®
IRVINGTON NY 10533

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

7016 3560 0000 1564 2880

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0061
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Postmark
Here

05/08/2023

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Sent To **Resident**
Street and Apt. No., or PO Box No.
45 HAVERMEYER RD
City, State, ZIP+4®
IRVINGTON NY 10533

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

7016 3560 0000 1564 2947

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☐ Adult Signature Restricted Delivery	\$0.00

0061
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Postmark
Here

05/08/2023

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Sent To **OWNER**
Street and Apt. No., or PO Box No.
2 DEEP HOLLOW CLOSE
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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41 HAVERMEYER RD
City, State, ZIP+4®
IRVINGTON NY 10533

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7016 3560 0000 1564 2903

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☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

0061
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Street and Apt. No., or PO Box No.
3 DEEP HOLLOW CLOSE
City, State, ZIP+4®
IRVINGTON NY 10533

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

7016 3560 0000 1564 2927

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☐ Adult Signature Restricted Delivery	\$0.00

0061
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Street and Apt. No., or PO Box No.
13 HAVERMEYER RD
City, State, ZIP+4®
IRVINGTON NY 10533

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

7016 3560 0000 1564 2897

CERTIFIED MAIL® RECEIPT

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Irvington, NY 10533

Certified Mail Fee	\$4.15
Extra Services & Fees (check box, add fee as appropriate)	\$7.35
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage	\$0.63
Total Postage and Fees	\$8.13

0061
03

Postmark
Here

05/08/2023

Sent To Resident

Street and Apt. No., or PO Box No.
7508 HAVERMAYER RD

City, State, ZIP+4®
IRVINGTON NY 10533

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

EXISTING UTILITY METER WITH NEW SMART CONNECTDER
NEW FIRE DEPARTMENT AC DISCONNECT
NEW SOLAR AC COMBINER PANEL
NEW PV SUPERVISOR
(OUTSIDE)

EXISTING MAIN SERVICE PANEL
(INSIDE GARAGE)

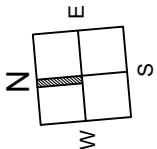
FENCE

FRONT OF HOUSE



Array 1
6 - Panels
Tilt: 9°
Azimuth: 5°

Array 2
9 - Panels
Tilt: 9°
Azimuth: 185°



KEY MAP
N.T.S.

General Notes

1. Modules to be SUNPOWER 415 Watt BoB Residential AC Module, to be installed per SUNPOWER Installation Manual.
2. Racking to be Sunpower Invisimount, to be installed as per Sunpower Invisimount Manufacturer's Specifications.

Wind and Snow Load

Wind Speed: 120 mph
Snow Load: 30 psf

Design Notes (New York)

Design complies with NYS Residential Code and NEC 2017

Unauthorized alteration or addition to a document prepared by a licensed Professional Engineer is a violation of Section 7209, Sub-Division 2 of the New York State Education Law.



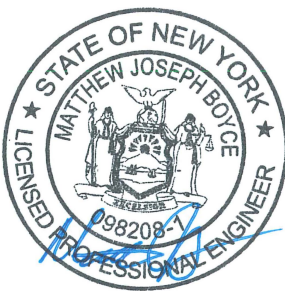
CARTWRIGHT RESIDENCE
4 DEEP HOLLOW CLOSE
IRVINGTON, NY 10533
SECTION 2.170 BLK 77 LOT 6

DATE	VER.	BY	CHK	REMARKS
2/10/2023	R0	CC		BUILDING PERMIT
3/27/2023	R5	CC		BUILDING PERMIT
JOB #22-0191				

SYSTEM DESCRIPTION:

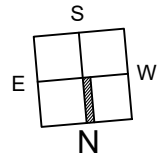
- 15 Photovoltaic Panels
- SUNPOWER
- SPR-M415-BLK-H-AC, BoB
- System Size: 6.23 kW DC
5.76 kW AC

ARRAY	1	2
TILT	9°	9°
AZIMUTH	5°	185°

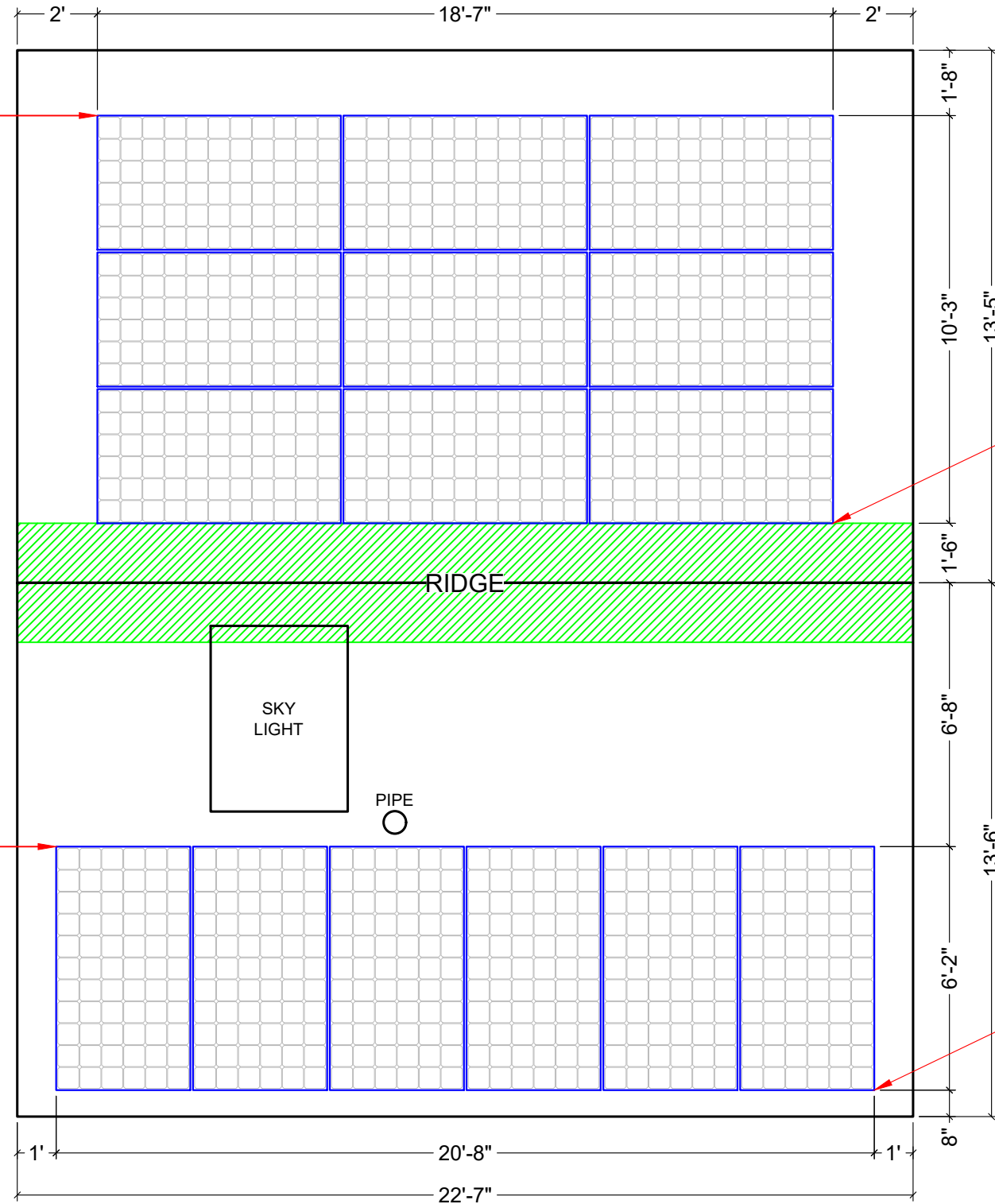


S1

SITE PLAN

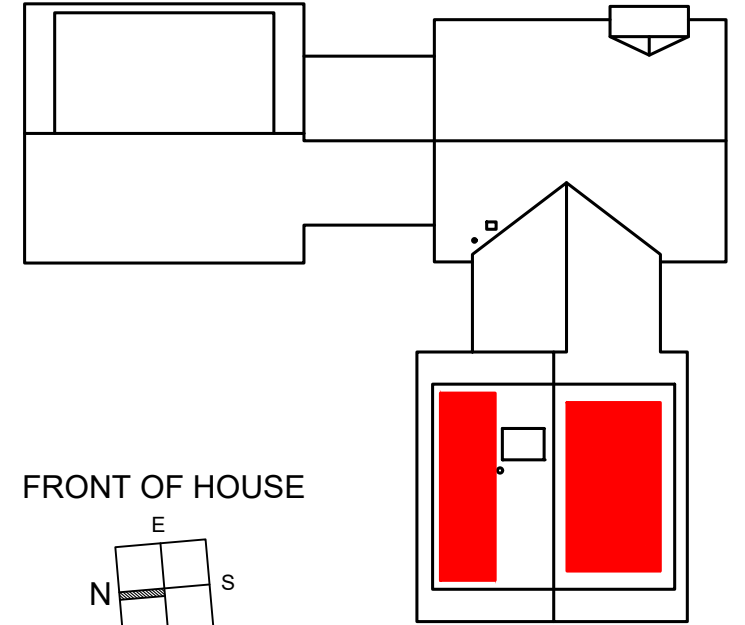


Array 2
9 - Panels
Tilt: 9°
Azimuth: 185°

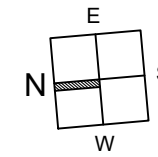


START LAYOUT HERE

START LAYOUT HERE



FRONT OF HOUSE



KEY MAP
N.T.S.



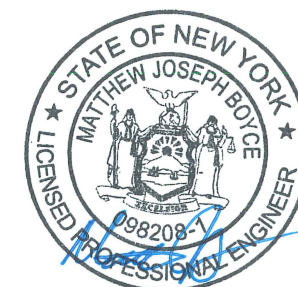
CARTWRIGHT RESIDENCE
4 DEEP HOLLOW CLOSE
IRVINGTON, NY 10533
SECTION 2.170 BLK 77 LOT 6

DATE	VER.	BY	CHK	REMARKS
2/10/2023	R0	CC		BUILDING PERMIT
3/27/2023	R5	CC		BUILDING PERMIT
JOB #22-0191				

SYSTEM DESCRIPTION:
• 15 Photovoltaic Panels
• SUNPOWER
• SPR-M415-BLK-H-AC, BoB
• System Size: 6.23 kW DC
5.76 kW AC

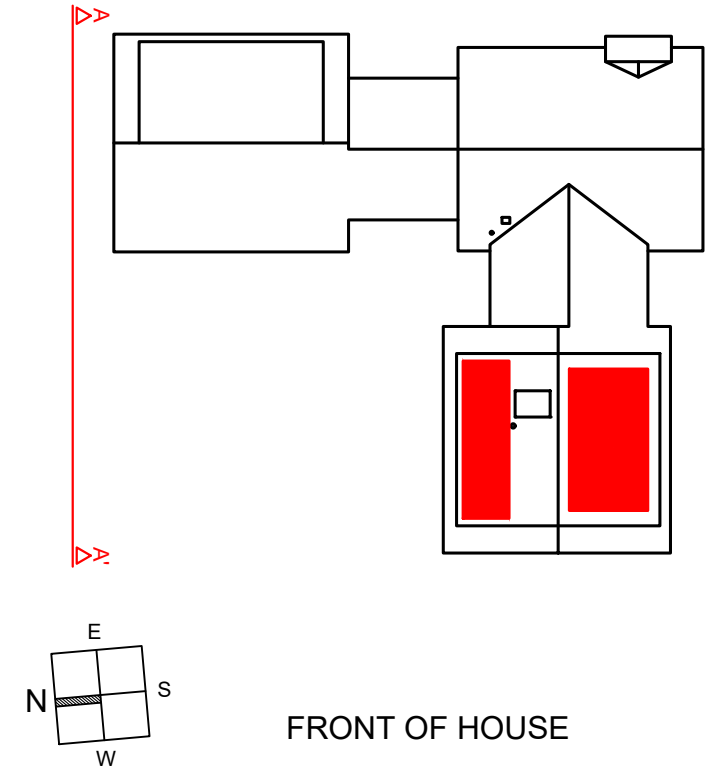
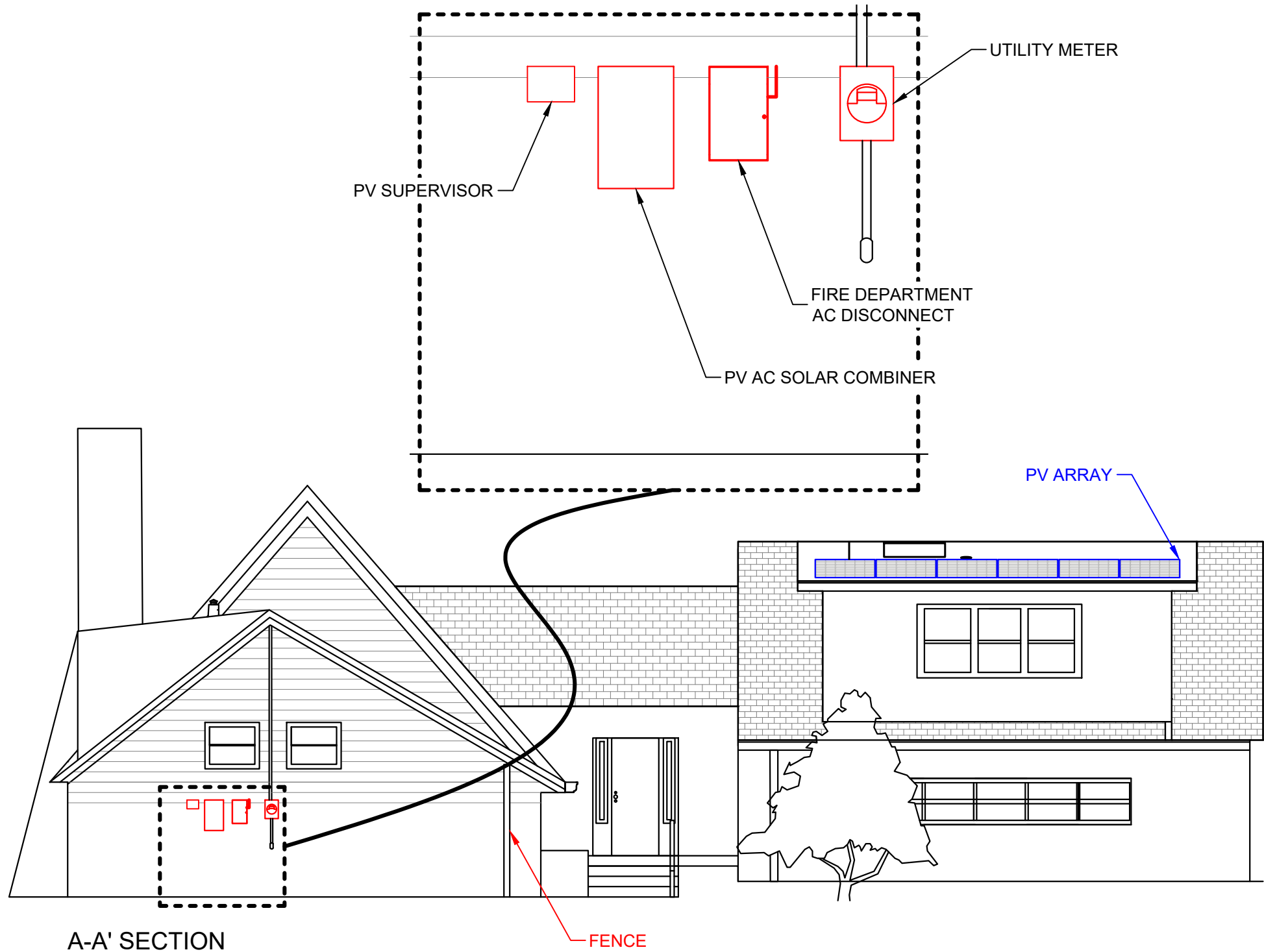
ARRAY	1	2
TILT	9°	9°
AZIMUTH	5°	185°

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S2.1

PANEL LAYOUT
CONSTRUCTION
PLAN



A-A' SECTION

KEY MAP
N.T.S.



510 N. State Rd.
Briarcliff Manor, NY
914.762.7622
sunrisesolarllc.com

CARTWRIGHT RESIDENCE

4 DEEP HOLLOW CLOSE
IRVINGTON, NY 10533

SECTION 2.170 BLK 77 LOT 6

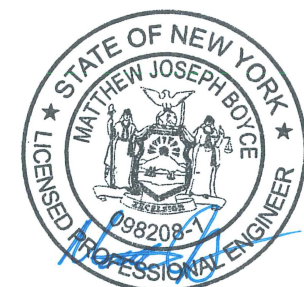
DATE	VER.	BY	CHK	REMARKS
2/10/2023	R0	CC		BUILDING PERMIT
3/27/2023	R5	CC		BUILDING PERMIT
JOB #22-0191				

SYSTEM DESCRIPTION:

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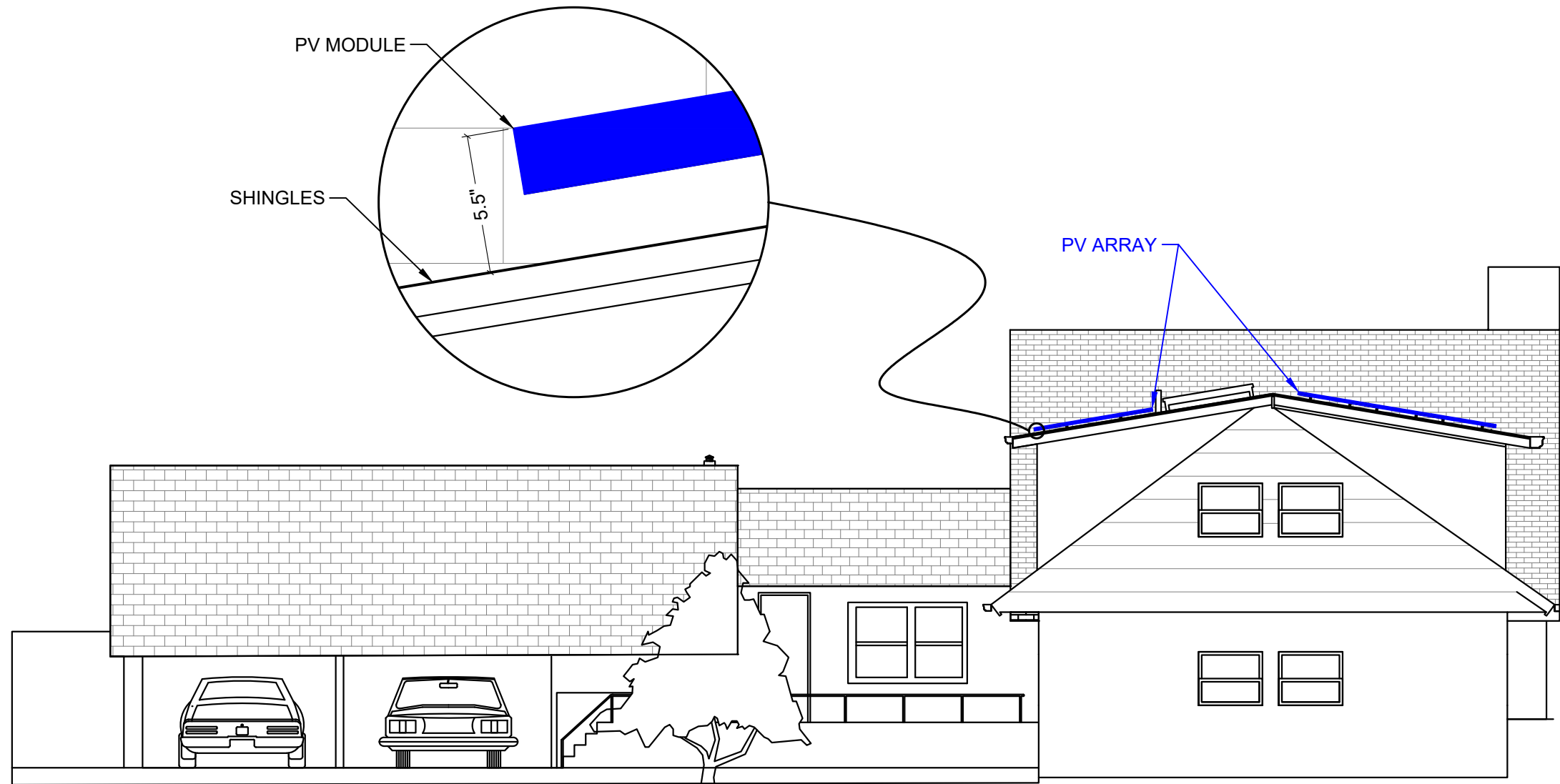
ARRAY	1	2
TILT	9°	9°
AZIMUTH	5°	185°

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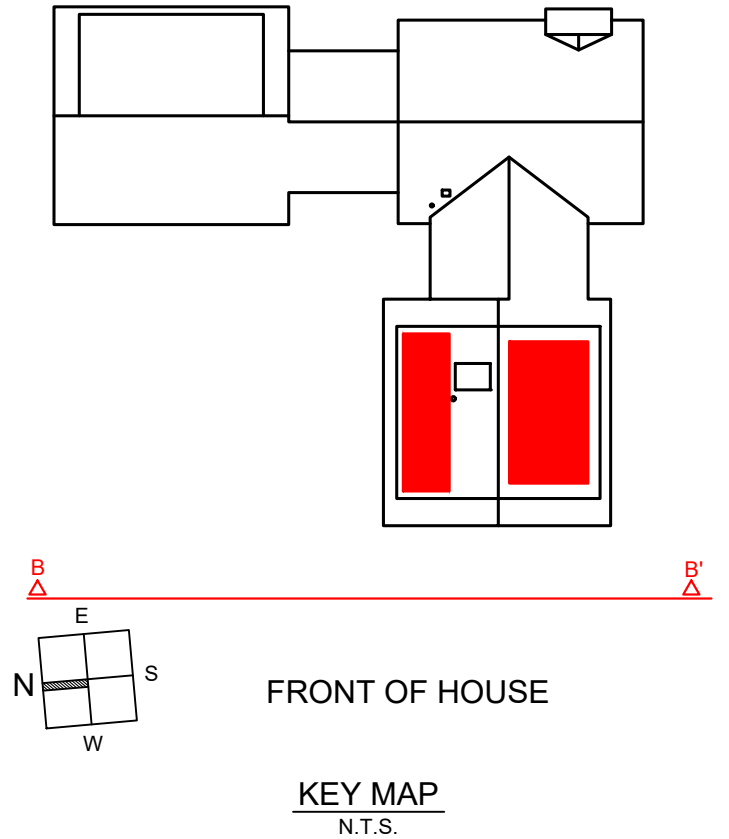


S2.2

ELEVATION PLAN



B-B' SECTION



510 N. State Rd.
Briarcliff Manor, NY
914.762.7622
sunrisesolarllc.com

CARTWRIGHT RESIDENCE
4 DEEP HOLLOW CLOSE
IRVINGTON, NY 10533
SECTION 2.170 BLK 77 LOT 6

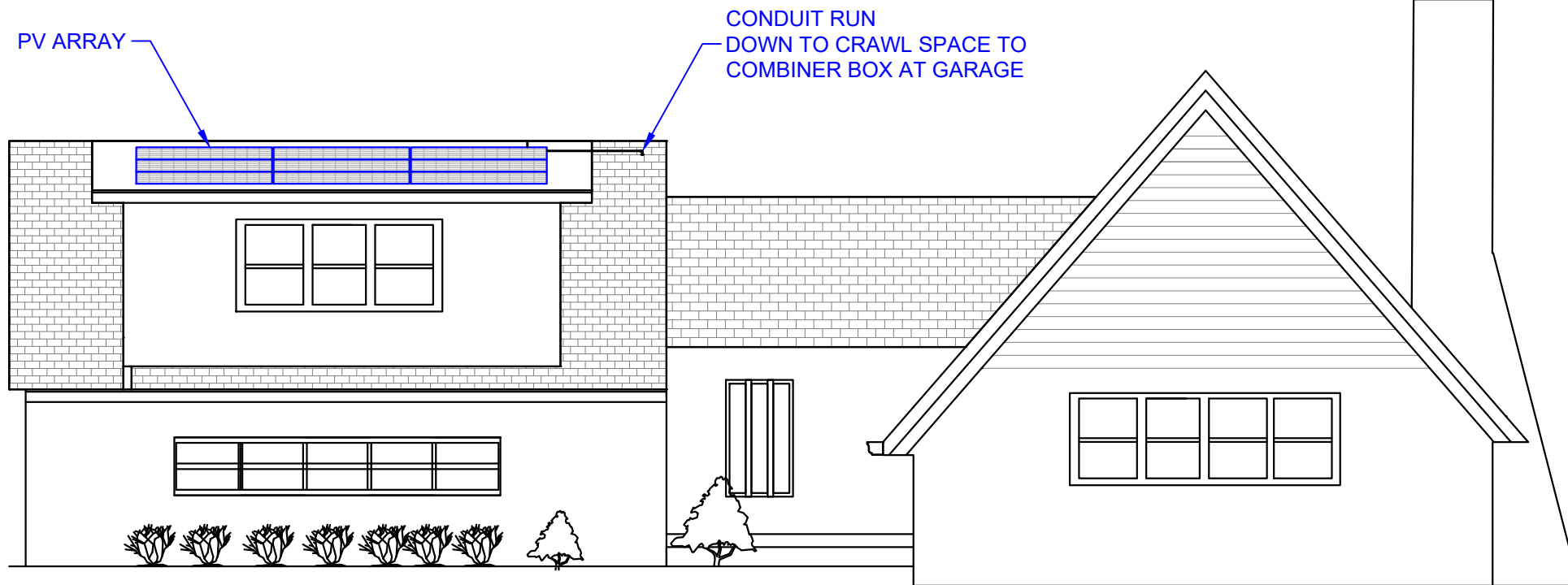
DATE	VER.	BY	CHK	REMARKS
2/10/2023	R0	CC		BUILDING PERMIT
3/27/2023	R5	CC		BUILDING PERMIT
JOB #22-0191				

SYSTEM DESCRIPTION:		
• 15 Photovoltaic Panels		
• SUNPOWER		
• SPR-M415-BLK-H-AC, BoB		
• System Size: 6.23 kW DC		
5.76 kW AC		
ARRAY	1	2
TILT	9°	9°
AZIMUTH	5°	185°

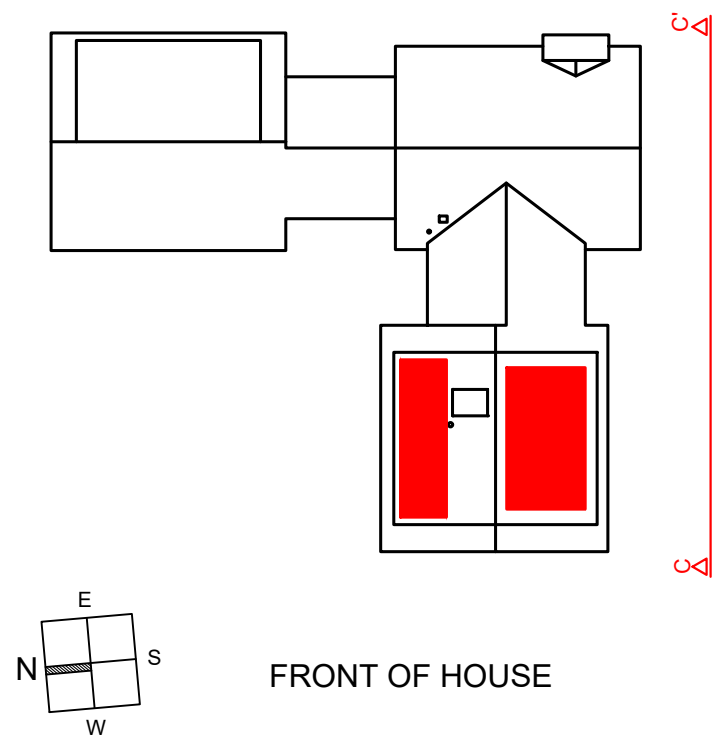
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S2.3

ELEVATION PLAN



C-C' SECTION



FRONT OF HOUSE

KEY MAP
N.T.S.



CARTWRIGHT RESIDENCE
4 DEEP HOLLOW CLOSE
IRVINGTON, NY 10533
SECTION 2.170 BLK 77 LOT 6

DATE	VER.	BY	CHK	REMARKS
2/10/2023	R0	CC		BUILDING PERMIT
3/27/2023	R5	CC		BUILDING PERMIT
JOB #22-0191				

SYSTEM DESCRIPTION:

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- SPR-M415-BLK-H-AC, BoB
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5.76 kW AC

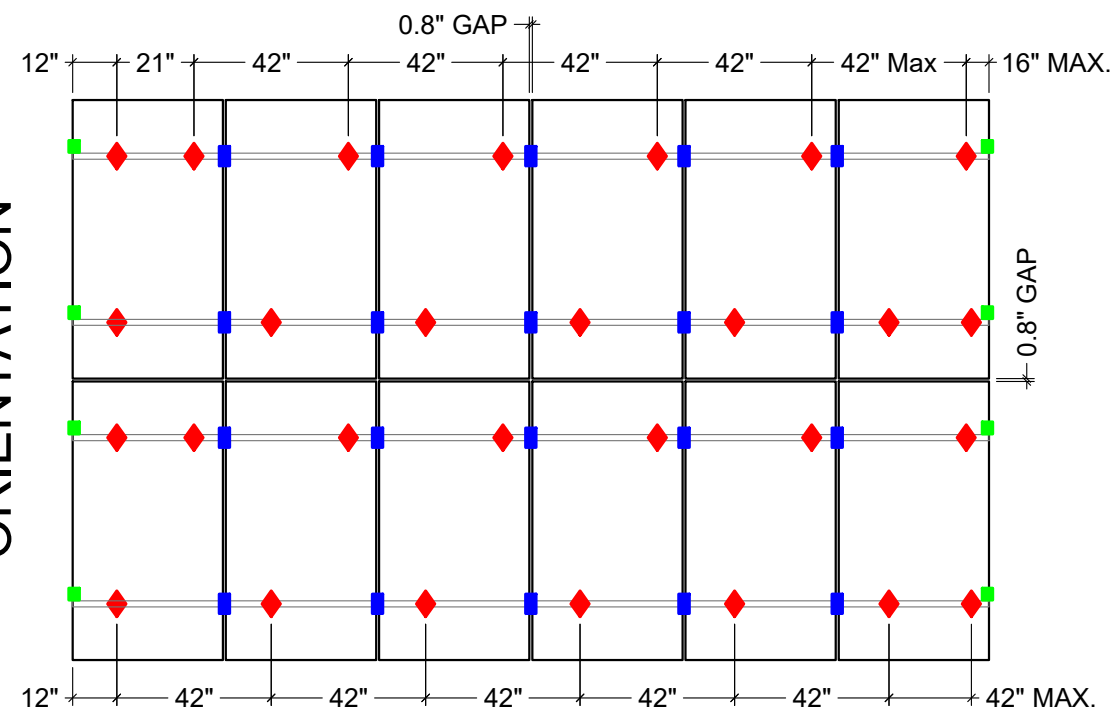
ARRAY	1	2
TILT	9°	9°
AZIMUTH	5°	185°

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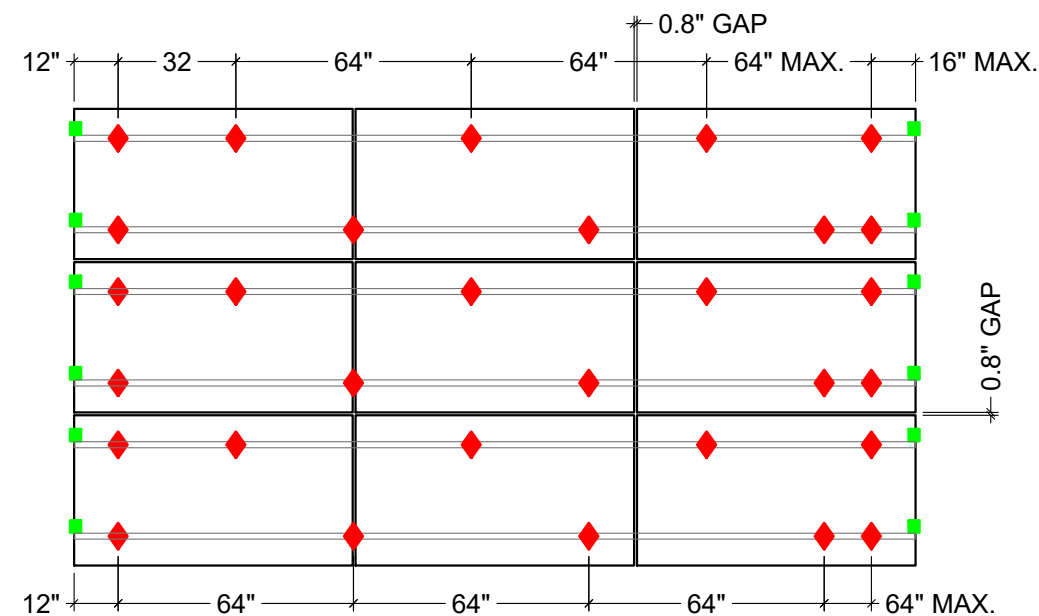
S2.4

ELEVATION PLAN

PORTRAIT
ORIENTATION



LANDSCAPE
ORIENTATION



ARRAY LAYOUT
NTS

LEGEND

- MID CLAMP
- END CLAMP
- ROOF ATTACHMENT (MAX SPACING: 64")
- INVISIMOUNT RAILS (2 PER MODULE)
- MODULE
- RAIL LOCATION, LANDSCAPE ORIENTATION
- RAIL LOCATION, PORTRAIT ORIENTATION

ATTACHMENT NOTES

- ATTACHMENTS NOT TO EXCEED 42" O.C. HORIZONTALLY
- MAXIMUM RAIL CANTILEVER: 16"
- MINIMUM 2 ATTACHMENT PER MODULE (GLOBALLY)
- STAGGER ATTACHMENTS

CLAMPS NOTES

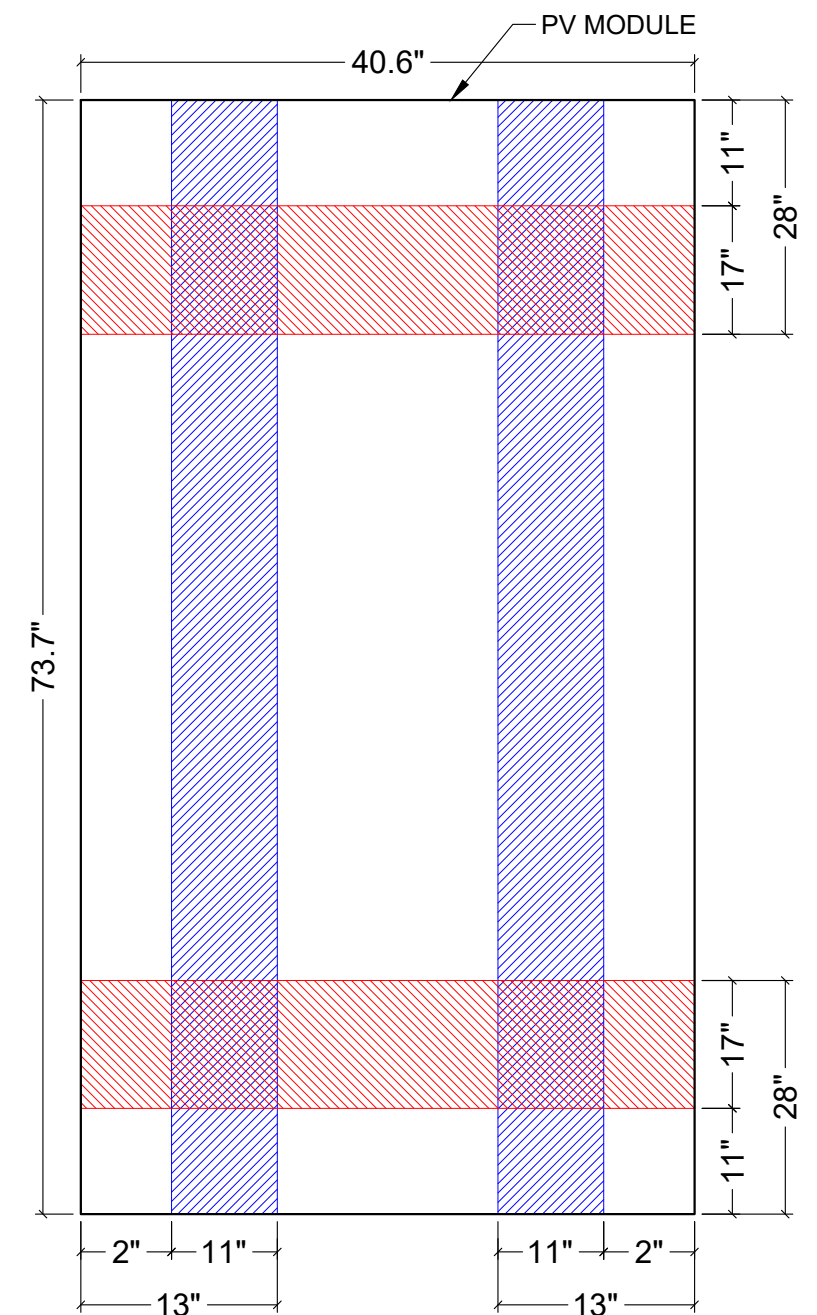
- FOR SUNPOWER U-SERIES MODULE USE UNIVERSAL MID CLAMP AND UNIVERSAL END CLAMP
- FOR SUNPOWER A, M, X & E SERIES USE CLASSIC MID CLAMP AND CLASSIC END CLAMP

RAIL NOTES

- RAILS SHALL BE POSITIONED IN THE HATCHED REGION

MODULE NOTES

- WARNING! DO NOT STEP ON, STAND ON, OR WALK ON THE MODULES OR THE MODULE FRAMES, AND DO NOT PLACE ANYTHING ON THEM--EVEN FOR A MOMENT.



CLAMP LOCATION
NTS

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510 N. State Rd.
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914.762.7622
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CARTWRIGHT RESIDENCE

4 DEEP HOLLOW CLOSE
IRVINGTON, NY 10533
SECTION 2.170 BLK 77 LOT 6

DATE	VER.	BY	CHK	REMARKS
2/10/2023	R0	CC		BUILDING PERMIT
3/27/2023	R5	CC		BUILDING PERMIT
JOB #22-0191				

SYSTEM DESCRIPTION:

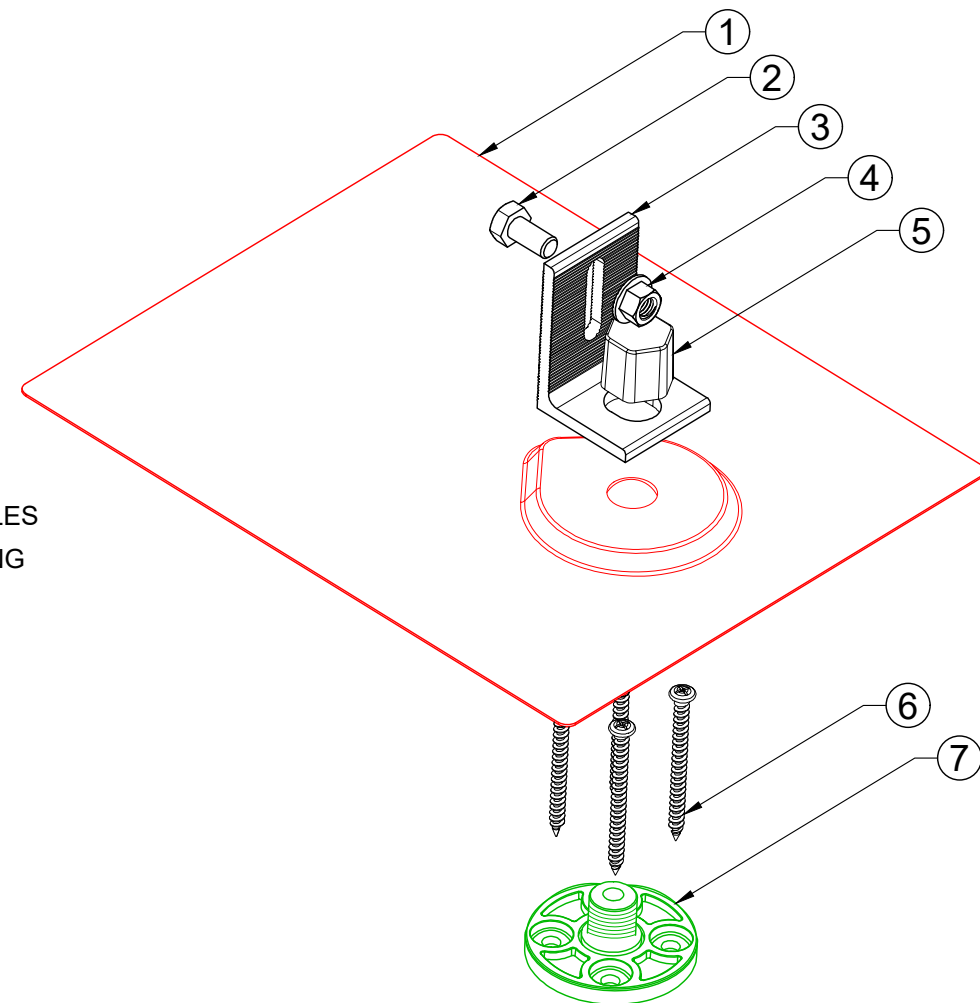
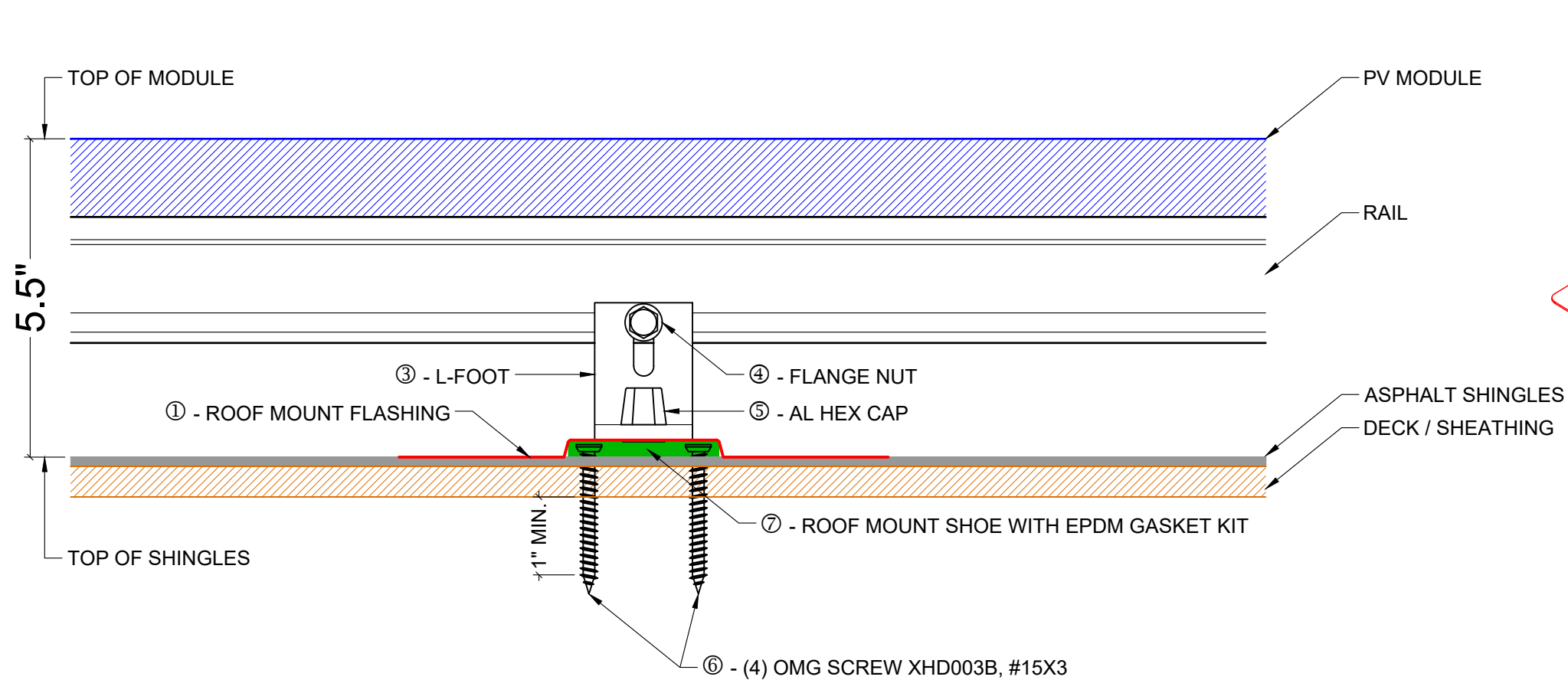
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- System Size: 6.23 kW DC
5.76 kW AC

ARRAY	1	2
TILT	9°	9°
AZIMUTH	5°	185°



S3

RACKING
DETAILS



ITEM	PART NUMBER	DESCRIPTION	QTY
1	A20052-001	ROOF MOUNT FLASHING	1
2	B15018-001	HEX CAP SCREW 3/8-16 X 3/4	1
3	A20064-003	L-FOOT	1
4	B15003-001	FLANGE NUT 3/8-16	1
5	A20066-001	AL HEX CAP	1
6	B15040-001	OMG SCREW XHD003B,#15X3	4
7	K10291-001	ROOF MOUNT SHOE WITH EPDM GASKET KIT	1

UNAUTHORIZED ALTERATION OR ADDITION TO A DOCUMENT PREPARED BY A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.



510 N. STATE ROAD
BRIARCLIFF MANOR, NY 10510
(914) 762-7622
SUNRISESOLARLLC.COM

CARTWRIGHT RESIDENCE
4 DEEP HOLLOW CLOSE
IRVINGTON, NY 10533
SECTION 2.170 BLK 77 LOT 6

DATE	VER.	BY	CHK	REMARKS
2/10/2023	R0			BUILDING PERMIT
3/27/2023	R5			BUILDING PERMIT
5/9/2023	R6			ARB
JOB #22-0191				

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- SUNPOWER
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5.76 kW AC

ARRAY	1	2
TILT	9°	9°
AZIMUTH	5°	185°



S4

ATTACHMENT
DETAIL

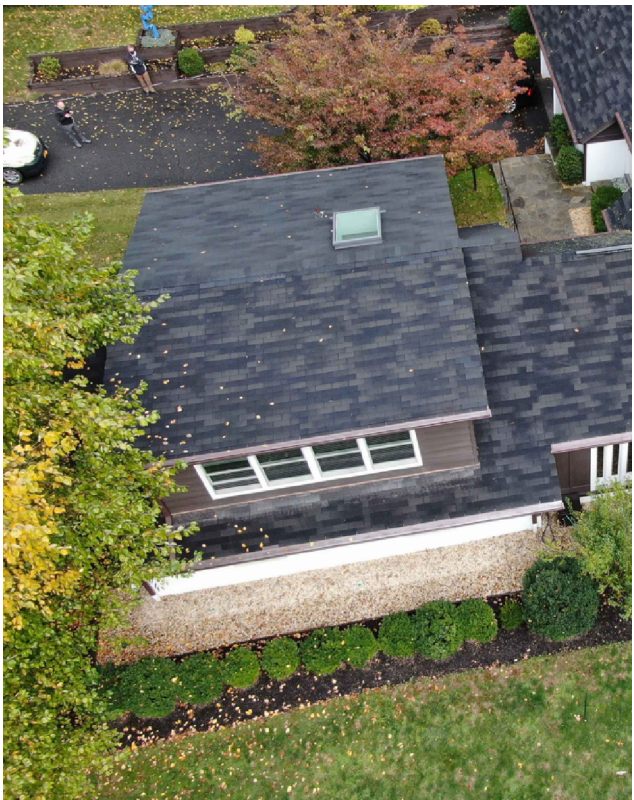
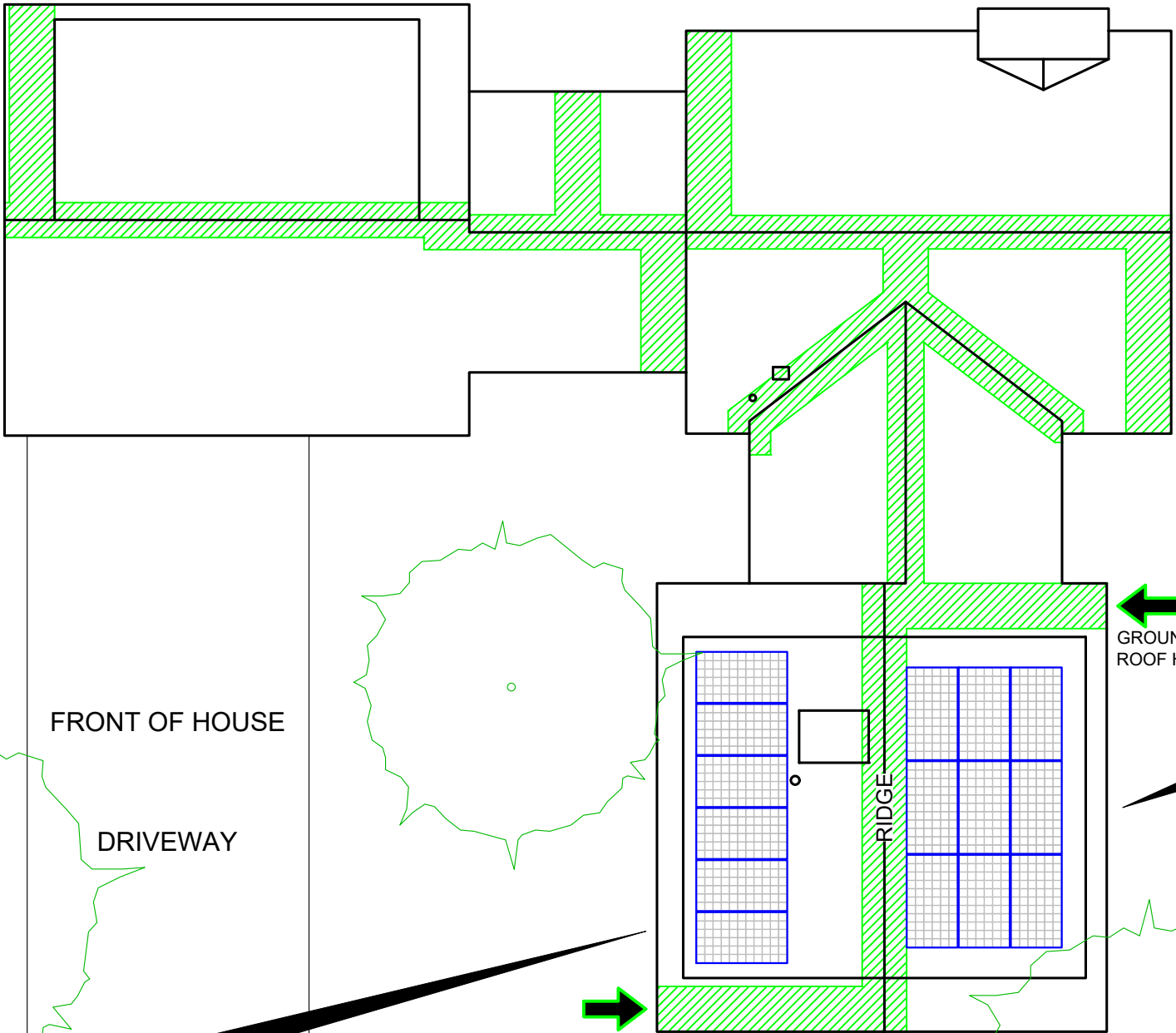
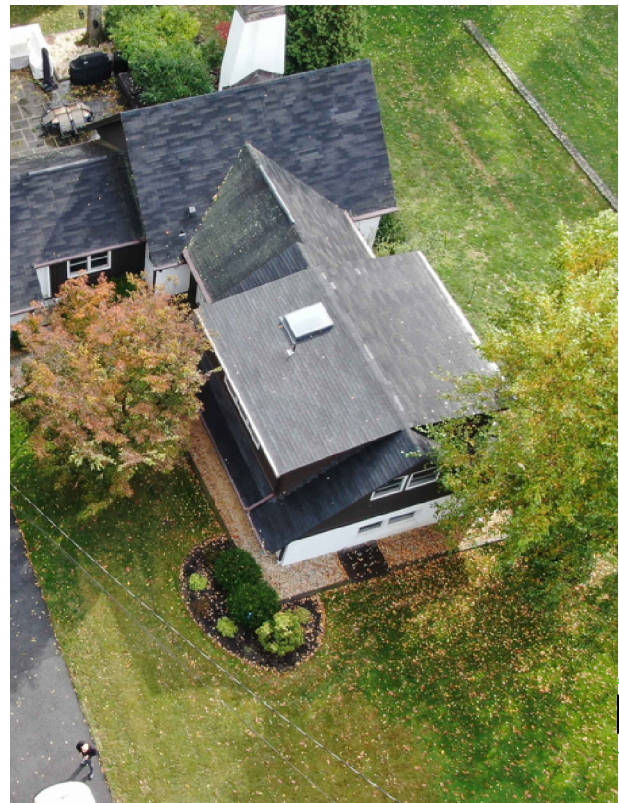
LEGEND



GROUND ACCESS



3FT WIDE ACCESS PATHWAY / VENT



FRONT OF HOUSE

DRIVEWAY

RIDGE

GROUND ACCESS
ROOF HEIGHT ±8FT

GROUND ACCESS
ROOF HEIGHT ±8FT

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Briarcliff Manor, NY
914.762.7622
sunrisesolarllc.com

CARTWRIGHT RESIDENCE

4 DEEP HOLLOW CLOSE
IRVINGTON, NY 10533

SECTION 2.170 BLK 77 LOT 6

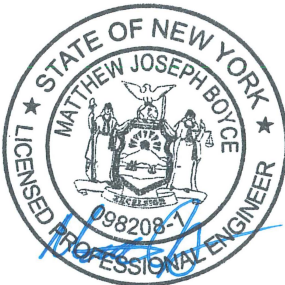
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3/27/2023	R5	CC		BUILDING PERMIT

JOB #22-0191

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5.76 kW AC

ARRAY	1	2
TILT	9°	9°
AZIMUTH	5°	185°



S5

ROOF ACCESS
PLAN

NOTES:

1. LABELS TO COMPLY WITH NEC REQUIREMENTS.
2. ALL WIRING TO COMPLY WITH NEC.
3. GROUND TO BE CONTINUOUS
4. GROUND WIRE CONNECTIONS TO BE "IRREVERSIBLE"
5. METER PAN TO BE GROUNDED ONLY.
6. NEUTRAL TO PASS THROUGH METER PAN
7. NO LINE SIDE TAP CONNECTION IN UTILITY METER PAN
8. ALL EQUIPMENT TO BE BONDED WITH GROUND LUG
PER NEC CODE.
9. NO ADDITIONAL BREAKERS TO BE ADDED TO SPARE
SPACES
10. INVERTER SHALL BE SET FOR THE FOLLOWING
SETTINGS

INVERTER SETTINGS:

IEEE1547 Protective Settings

FREQUENCY DISTURBANCE TRIP		
Trip Function	Voltage (p.u.)	Clearing Time (s)
OF2	62.0	0.16
OF1	61.2	300
UF1	58.5	300
UF2	56.5	0.16

VOLTAGE DISTURBANCE TRIP		
Trip Function	Voltage (p.u.)	Clearing Time (s)
OV2	1.20	0.16
OV1	1.10	2.00
UV1	0.80	3.00
UV2	0.50	1.10

LABELS

**1 PHOTOVOLTAIC DC DISCONNECT
WARNING ELECTRIC SHOCK HAZARD!**

Voc	V
Vmp	V
Isc	A
Imp	A

2 WARNING- Dual Power Sources
Second source is photovoltaic system

3 WARNING- Electric Shock Hazard
No user serviceable parts inside
Contact authorized services for assistance

4 PHOTOVOLTAIC POINT OF INTERCONNECTION **WARNING ELECTRIC SHOCK HAZARD!** DO NOT TOUCH TERMINALS ON BOTH THE LINE AND LOAD SIDE MAY BE ENERGIZED

PV POWER SOURCE	
MAXIMUM AC CIRCUIT OUTPUT OPERATING CURRENT	A
OPERATING AC VOLTAGE	V

5 PV COMBINER BOX **WARNING:** ELECTRIC SHOCK HAZARD

6 CAUTION: SOLAR CIRCUIT

7 Solar Disconnect

WARNING - Electric Shock Hazard
DO NOT TOUCH TERMINALS
 Terminals open both line and Load sides
 may be energized in the Open position

8 DC DISCONNECT

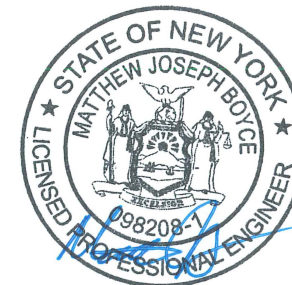
WARNING - Electric Shock Hazard
DO NOT TOUCH TERMINALS
Terminals open both line and Load sides
may be energized in the Open position

DC VOLTAGE IS ALWAYS PRESENT WHEN SOLAR MODULES ARE EXPOSED TO SUNLIGHT

9 WARNING:
INVERTER OUTPUT CONNECTION DO NOT
RELOCATE THIS OVERCURRENT DEVICE

**10 PHOTOVOLTAIC DISCONNECT
WARNING ELECTRIC SHOCK HAZARD!**

OPERATING AC VOLTAGE	V
MAXIMUM OPERATING CURRENT	A



Unauthorized alteration or addition to a document prepared by a licensed Professional Engineer is a violation of Section 7209, Sub-Division 2 of the New York State Education Law.



CARTWRIGHT RESIDENCE
4 DEEP HOLLOW CLOSE
IRVINGTON, NY 10533
Sect. 2.170, Block 77, Lot 6

[illegible]

Circuit Calculation:

Max. no. of Inverter per circuit = 10
 $(1.25 \times 10 \times 384W) \div 240V = 20.00A$, **Use 20A OCPD**
 Total no. of Inverter = 15
 $(1.25 \times 15 \times 384W) \div 240V = 30.00A$, **Use 30A OCPD**

System Specifications:

Total System:
15 Mod x 415W = 6.2kW DC STC
15 Inv x 384W = 5.8kW AC
Nominal AC Voltage = 240V
Max AC Current = 24.0A

E1.2

LINE
DIAGRAM