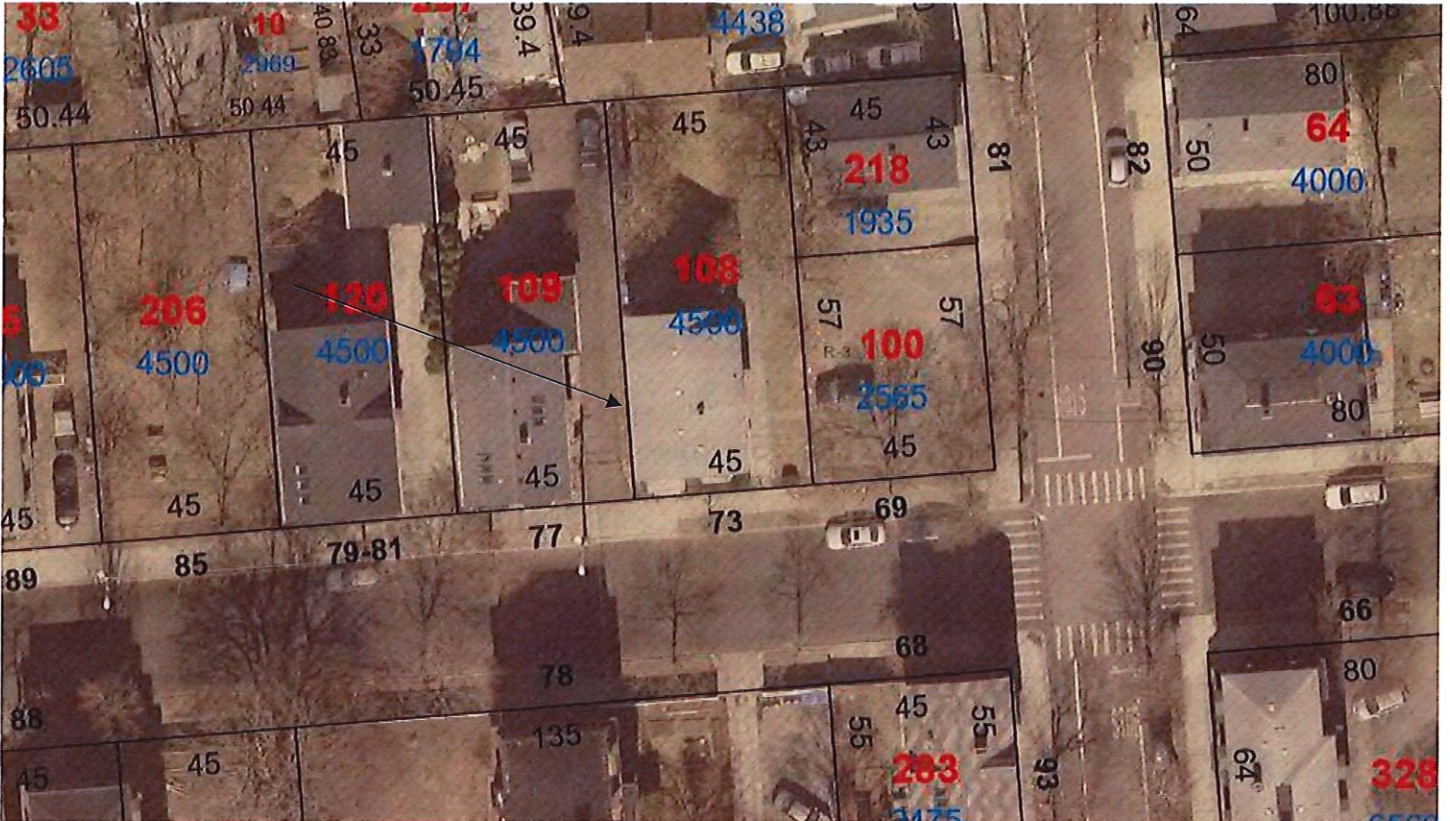
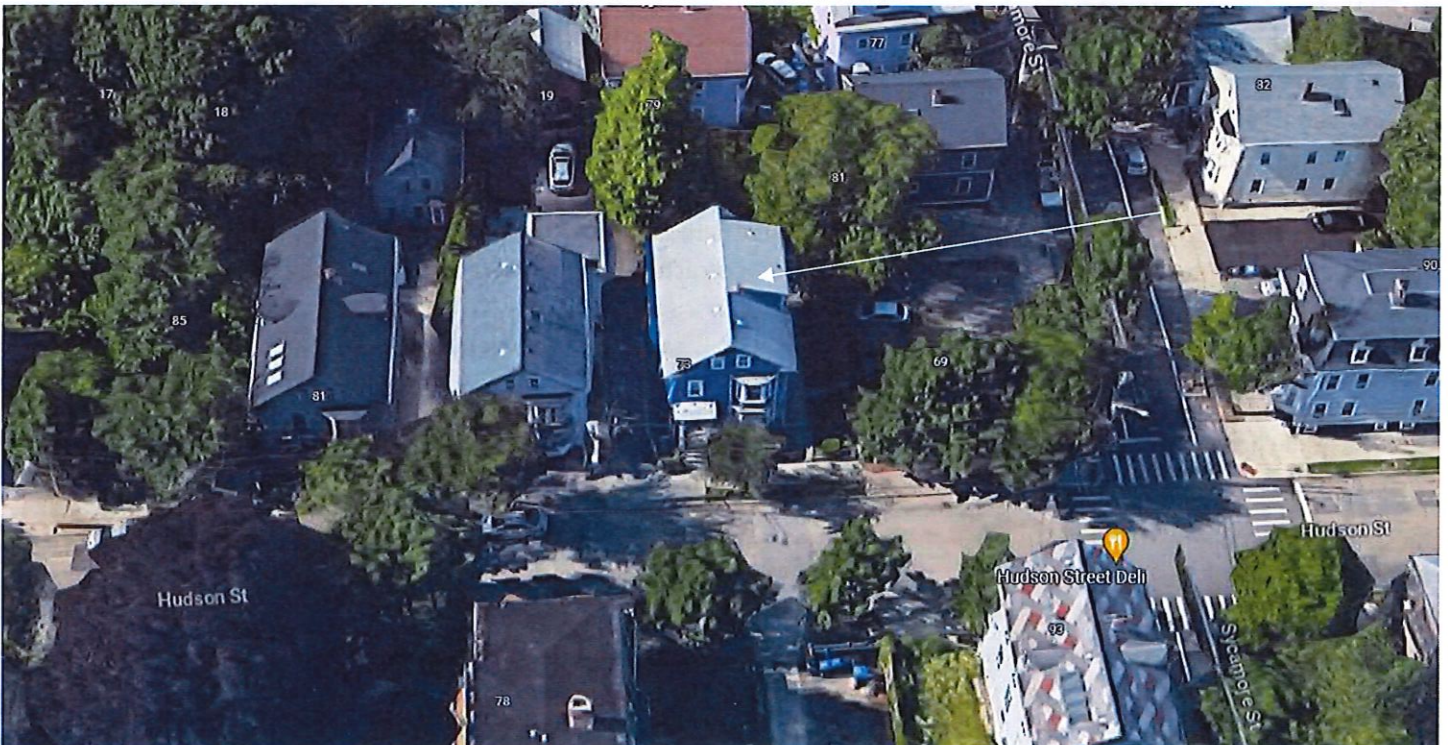


7. CASE 23.076, 73 HUDSON STREET, House, c1870 (ARMORY)

2½-story; end-gable; shingle typical house: with Italianate portico, dormers, 2-story front bay with dentil trim, and sidehall-plan.
CONTRIBUTING



Arrow indicates 73 Hudson Street.



Arrow indicates project location, looking north.

Applicant/Contractor: Venture Home Solar LLC, Tristan Souza, 231 Weaver Street, Unit E, Fall River, MA 02720

Owner: Jessie Dudley, 73 Hudson Street, Providence, RI 02909

Proposal: The scope of work proposed consists of Minor Alterations and includes:

- the installation of ten solar panels to the east slope of the gable-end roof, four on the slope and six on top of the existing dormer.

Issues: The following issues are relevant to this application:

- Some of the modifications as proposed will be (minimally) visible from the public rights-of-way;
- Staff recommends the four panels on the eastern slope be moved as much as possible to the north to decrease possible visibility;
- The lot abutting to the East is currently vacant, however the Commission has approved new construction for a building at this location and it is Staff's understanding that a building will be constructed here in the near future, although there may be a new developer with a different design (both approved and potential design would be two stories);
- The modifications as proposed meets Minor Alterations: Solar Energy Systems Guidelines, Section 2, in the following manner: Panel layout shall be sympathetic or appropriate to design and scale of building. Rectangular configurations are preferred, with ample setback from edge of roof, dormers, chimneys, etc. (2.A); Panels shall be installed parallel to the existing roof slope and matched as closely as possible to the roof plane (2.B); Panels shall be installed without destroying or replacing original or historic materials or significantly compromising or altering the building's structural integrity (2.C); Panels shall be compatible in color to existing roofing insofar as possible (2.D); Installation of panels shall be as inconspicuous as possible when viewed from public right-of-way (2.E); Installation shall be reversible. Panels shall be removed when no longer viable or functioning and roofing restored to pre-existing conditions (2.F); and,
- Plans, specifications and pictures have been submitted.

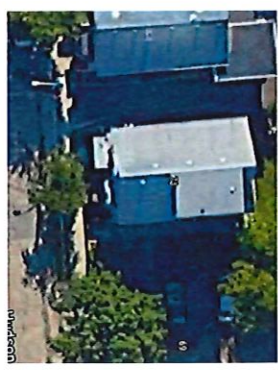
Recommendations: The staff recommends the PHDC make the following findings of fact:

- a) 73 Hudson Street is a structure of historical and architectural significance that contributes to the significance of the Armory local historic district, having been recognized as a contributing structure to the Broadway/Armory National Register Historic District;
- b) The modifications as proposed meets Minor Alterations: Solar Energy Systems Guidelines, Section 2, and the application is considered complete; and,
- c) The work as proposed is in accord with PHDC Standards 8 & 9 as follows: 8) the work will be done so that it does not destroy the historic character of the property or the district as they are not on the primary elevation and will be minimally-to-not visible from the public rights-of-way; and, 9) Whenever possible... alterations to structures shall be done in such a manner that if removed in the future, the essential form and integrity of the structure and the site will be unimpaired.

Staff recommends a motion be made stating that: The application is considered complete. 73 Hudson Street is a structure of historical and architectural significance that contributes to the significance of the Armory local historic district, having been recognized as a contributing structure to the Broadway/Armory National Register Historic District. The Commission grants Final Approval of the proposal as submitted as the proposed alteration is appropriate having determined that the proposed alteration does not destroy the historic character of the property or the district and are historically and architecturally compatible with the property and district as the proposed alteration meets Minor Alterations: Solar Energy Systems Guidelines, Section 2, is reversible and will not have an adverse effect on the property or district as they are not on the primary elevation and will be minimally visible from the public rights-of-way (Standards 8 & 9), and the recommendations in the staff report, with staff to review any additional required details.

73 Hudson St Apt 2 Providence, RI 02909-1903, USA		
02909-1903, USA		
Solar Panels: (10) SunPower CEC67 CYPENX P100		
RI, K, M, G10, 400-Mph, Module		
Inverters: (10) QONR135-72-US-Micro-Inverters		
Solar System DC Size: 4.00kW AC Size: 2.90kW		
Solar Annual Production: 4,315.00 KWH		
Designed By: USIRAC		
Date: 05/16/2023		
Revision #	Approval Date	Description

AERIAL SITE VIEW



MAP OF BLOCK DISTRICTS



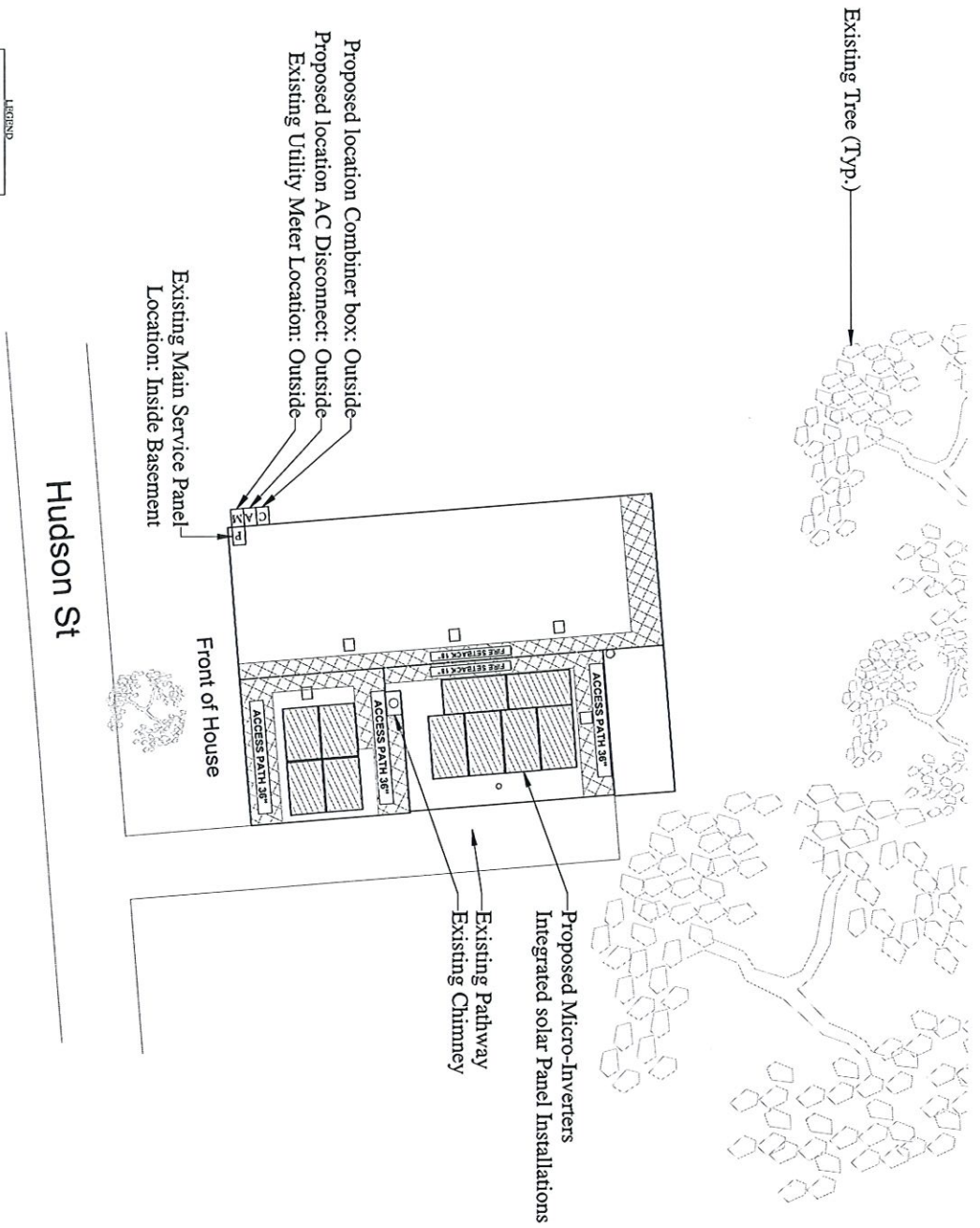
GPS COORDINATES
 41.813368, -71.434931

DRAWING INDEX

1	Zoning Information, Site Plan	Z-0000.00
2	Dimensions and System Layout	A-0000.00
3	Roofing and Load Calculations	S-0000.00
4	Specifications	S-0010.00
5	Labels & Solar Map Final	C-0000.00
6	Single Diagrams	E-0000.00
7	Label Sheet	E-0010.00
8	Electrical Schem & Labels	E-0020.00
9	BOX	C-0010.00
10	PHOTO RENDERING	C-0020.00
11	PHOTO RENDERING	C-0030.00
12	PHOTO RENDERING	C-0040.00

SOLAR ELECTRIC GENERATION INSTALLATION ON EXISTING RESIDENCE:
 73 Hudson St Apt 2 Providence, RI 02909-1903, USA

SITE PLAN
 Scale: 3/16" = 1'-0"



LEGEND

	Proposed Addition
	Existing Building
	Ventilation
	Obstruction

SCOPE OF WORK

SCOPE OF WORK IS SOLELY FOR THE INSTALLATION OF THE SOLAR ELECTRIC GENERATION SYSTEM AND IS NOT TO BE RELIED UPON AS BEING APPROVED AND/OR PERMITTED BY THE BUILDINGS DEPARTMENT.

NOTES

The existing roof structure for this project, as is, with the structure reinforcement specified on page S-0000.01, has been determined to be suitable for the installation of the proposed solar electrical generating system as described in these design documents.

There is no tree, utility line or any other potential hazard that could cause this contact with any part of the solar electric generating system.

All electrical equipment, installation and work shall comply with the following applicable codes:

- 2020 National Electrical Code
- 2021 International Building Code
- 2018 International Mechanical Code
- 2018 International Plumbing Code
- 2018 International Fire Code
- 2018 International Fuel Gas Code

Patrick Bussetti
 67 West St, Brooklyn, NY 11222
 License # 14170

Patrick Bussetti
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

P.E. R. A. Sempur / Signatures
 5/9/2023

DOB: Sempur, Signatures

ZONING INFORMATION
 SITE PLAN
Z-0000.00
 Scale: 3/16" = 1'-0"
 Page 1 of 9

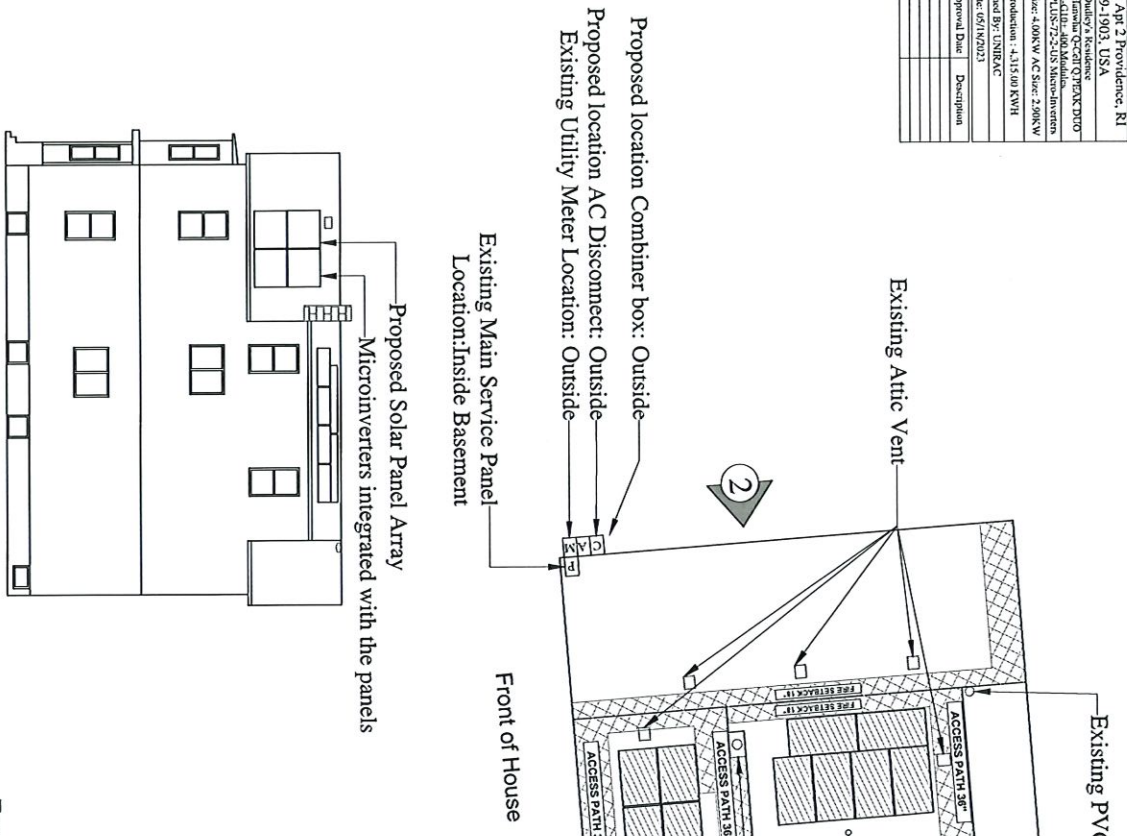
73 Hudson St Apt 2 Providence, RI 02909-1903, USA	
Client Name	Home Energy Residence
Client Address	73 Hudson St Apt 2 Providence, RI 02909-1903, USA
Investor	(10) KOPF US-72-US Mission Investors
Solar System	DC Size: 4.00kW AC Size: 2.00kW
Solar Annual Production	4,115.00 kWh
Designed By	USIBC
Date	05/16/2023
Revision #	Approval Date Description

SYSTEM LAYOUT

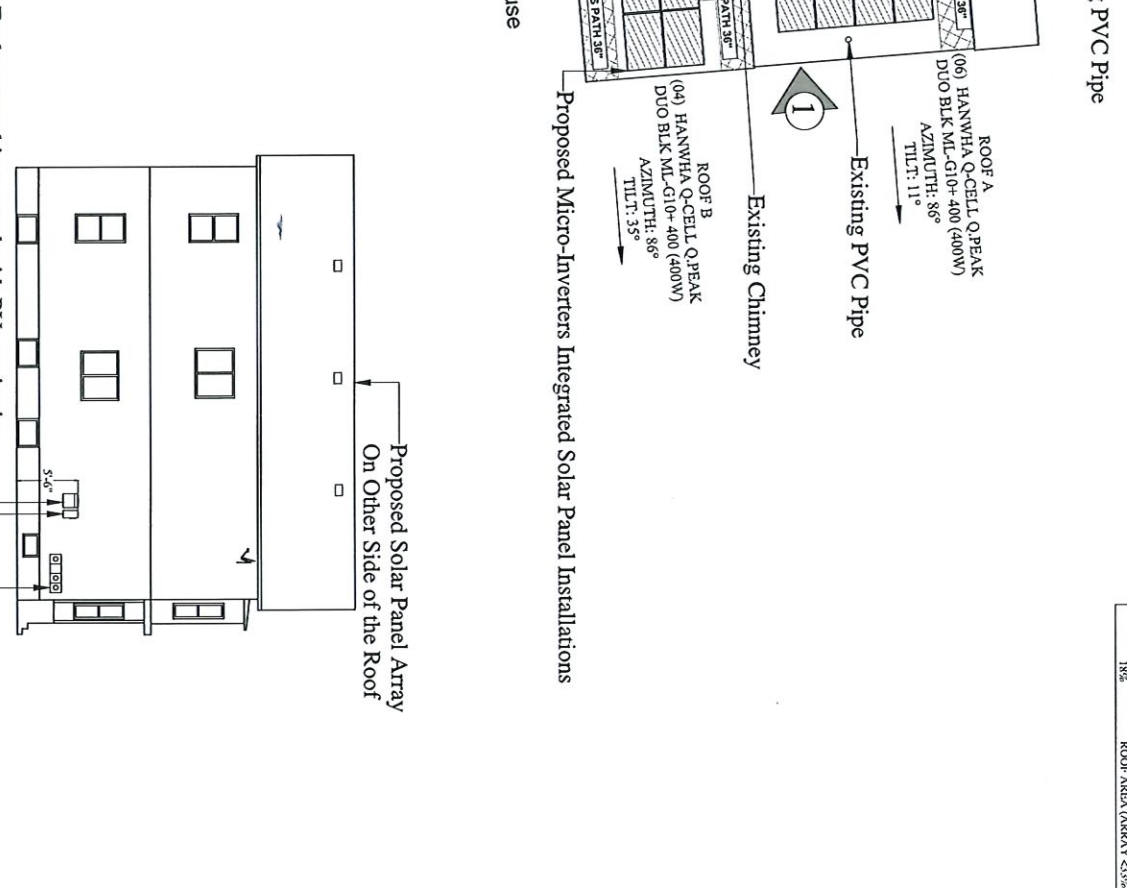
Scale: 1/8" = 1'-0"

ARRAY AREA & ROOF AREA CALCS		
AREA OF NEW ARRAY (Sq. Ft.)	AREA OF ROOF/FIN PLAN (Sq. Ft.)	TOTAL ROOF AREA COVERED BY ARRAY %
211.21	1176.82	18%
18%	ROOF AREA (ARRAY <35% OF ROOF AREA)	

ELEVATION LEGEND	
	Vent Pipe 44" x 16" x 12" Tall
	Vent Box
	Vent Fan
	Skylight



1 ELEVATION NORTH EAST (RIGHT SIDE OF HOME)



2 ELEVATION SOUTH WEST (LEFT SIDE OF HOME)

Patrick Bussett
 Venture Solar
 67 West St, Brooklyn, NY 11222
 License # 14170

No. 14170
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

P.E. & A. Stamp/Signatures

 DOB Stamp/Signatures
 5/6/26

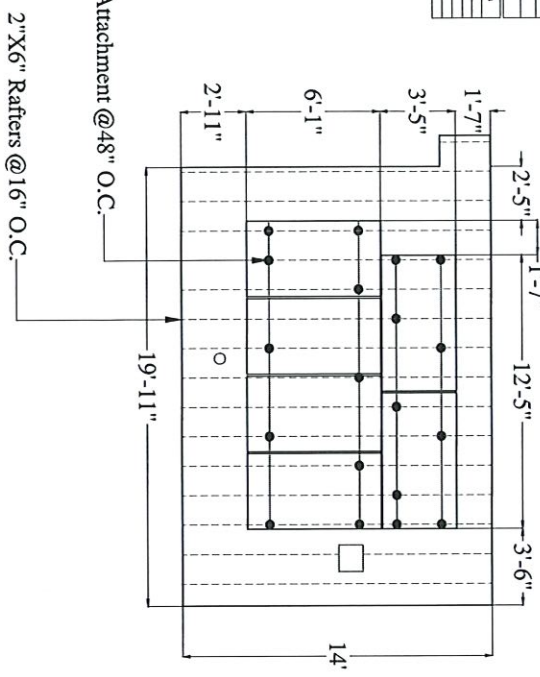
ELEVATIONS SYSTEM LAYOUT
 A-000.00
 Scale: 3/16" = 1'
 Page 2 of 9

Revision #	Approval Date	Description

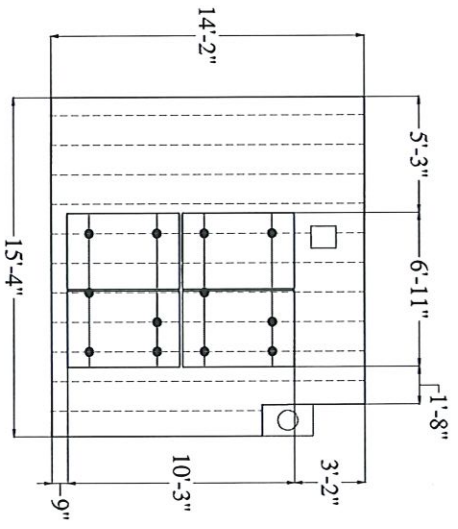
**UNIRAC STAGGERED STRONGHOLD
ROOF ATTACHMENT**

Scale: 3/8" = 1'-0"

Roof A



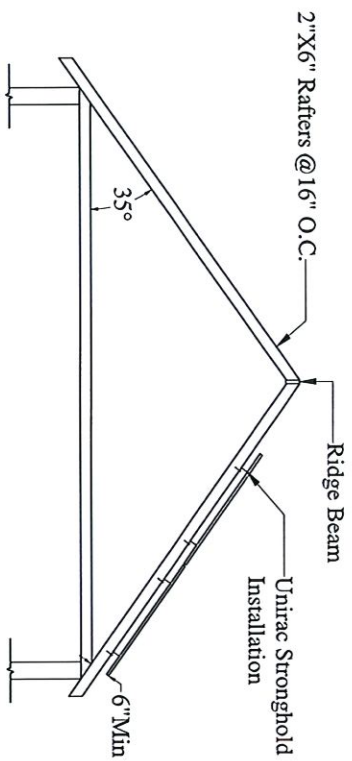
Roof B



ROOF STRUCTURAL DETAILS:

Scale: 3/8" = 1'-0"

ROOF TILT: 35° & 11°



The PV modules will be maximum 6" off the roof surface.

LEGEND

	Unirac Rail Mounting Area
	L-Feet Rail Supports
	RAILS
	ATTACHMENTS
	RAFTERS

Acceptable Rail Mounting Area
L-Feet Rail Supports shall be installed at each end of rail and every 48" there after to support all Solar array wind and snow loads. Roof attachments shall be staggered.

Patrick Bussett
Venture Solar
67 West St. Brooklyn, NY 11222
License # 14170

PATRICK BUSSETT
No. 14170
REGISTERED PROFESSIONAL ENGINEER
CIVIL

P.E./R. A. Stampf Signatures
DOB Stamp Signatures
5/2/12

RACKING AND LOAD CALCULATIONS
Scale: SEE SCALE
S-000.00

Page 3 of 9

YOUR *venture+* SYSTEM

-  **TRIPLE-BLACK SOLAR PANELS**
-  ***venture+* MICROINVERTERS**
-  ***venture+* MONITORING**
-  ***venture+* SERVICE PLAN**



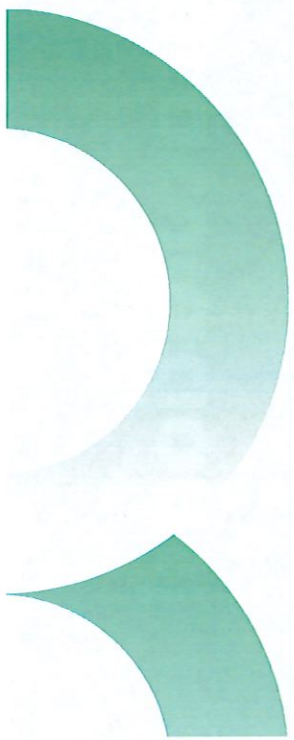
Hanwha QCells 400

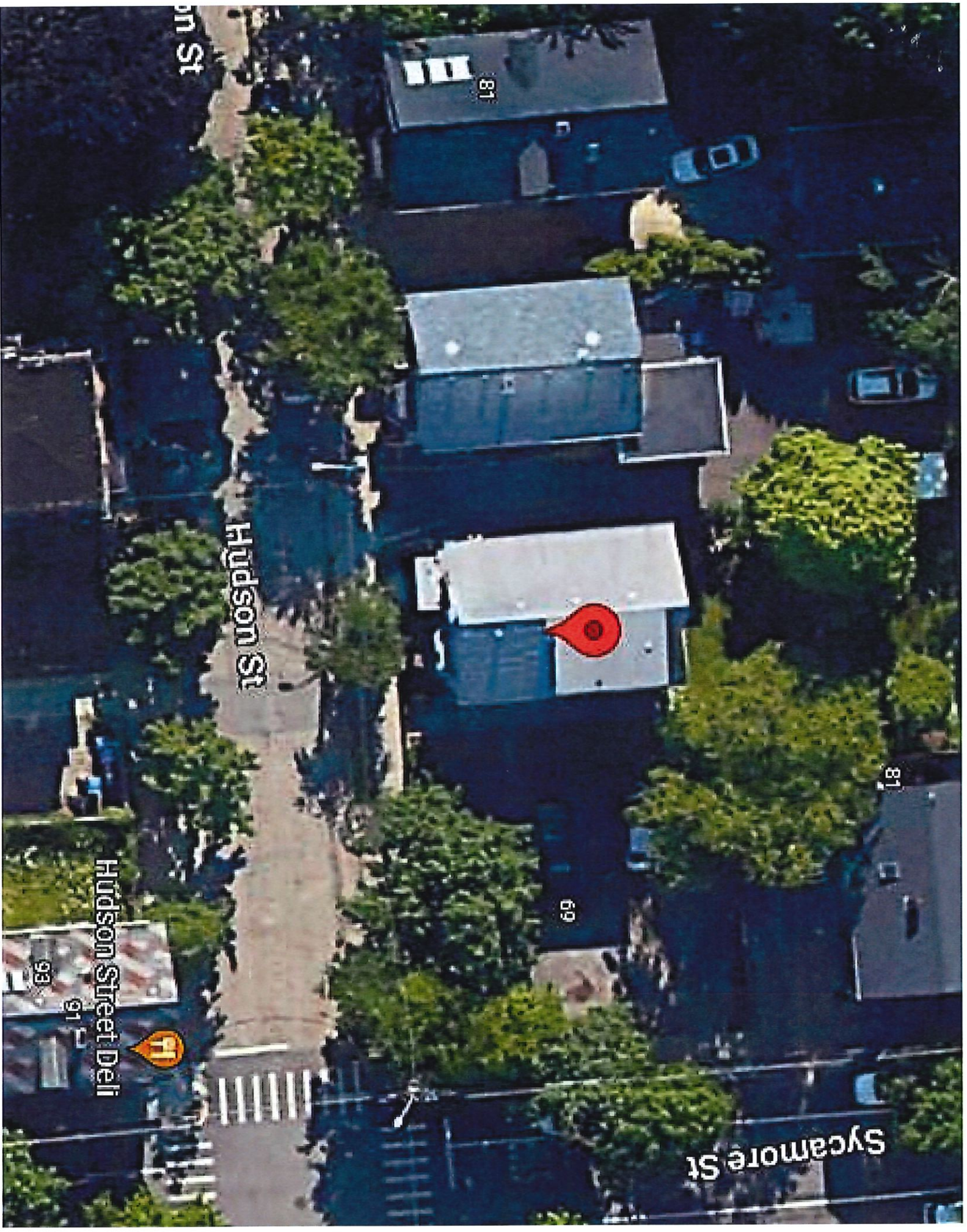
YOUR *venture+* SYSTEM

WILL PRODUCE 4,315

kilowatt hours of energy per year.

 **ENPHASE** microinverters included standard.





on St

81

Hudson St

81

69

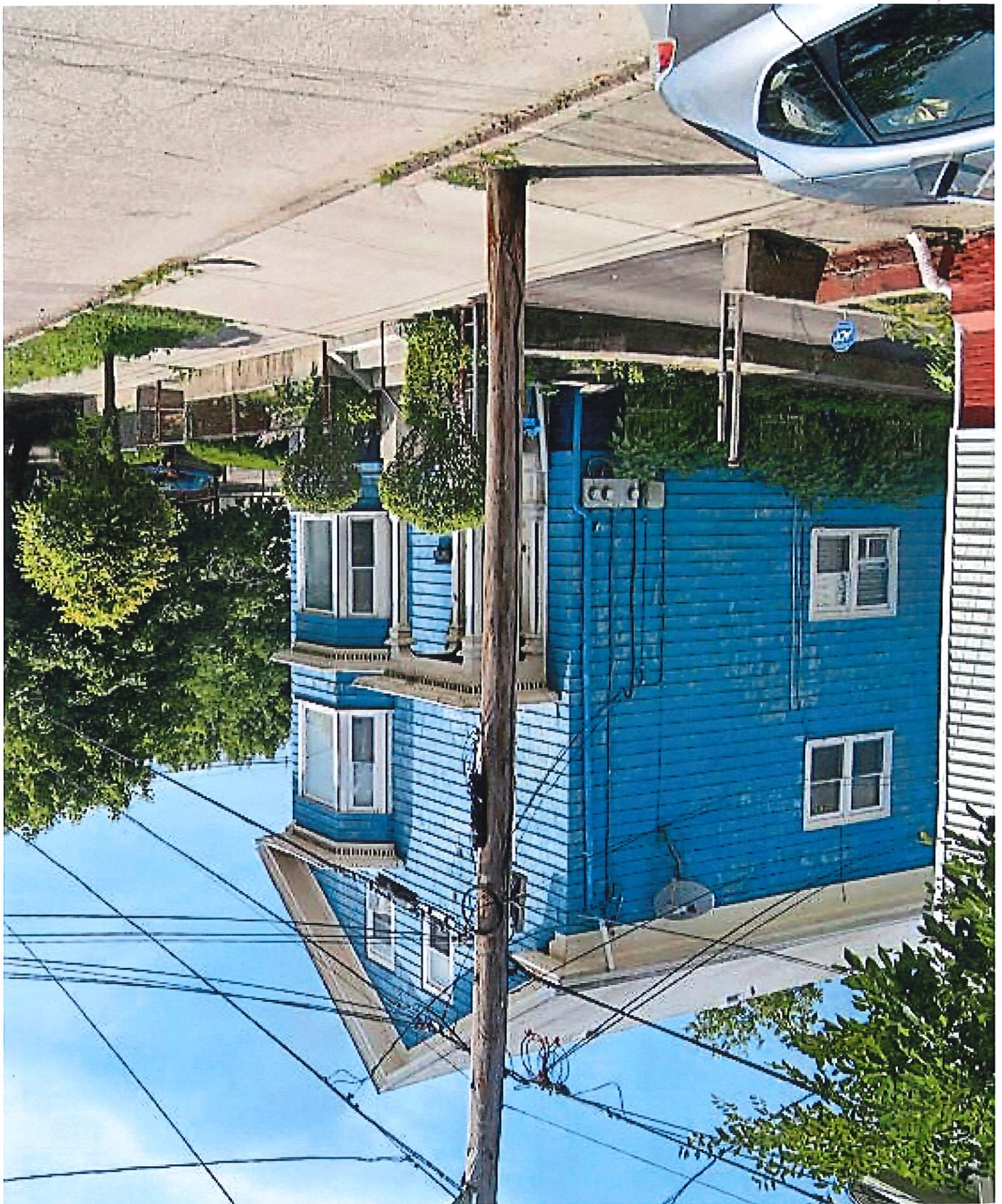
Hudson Street Deli

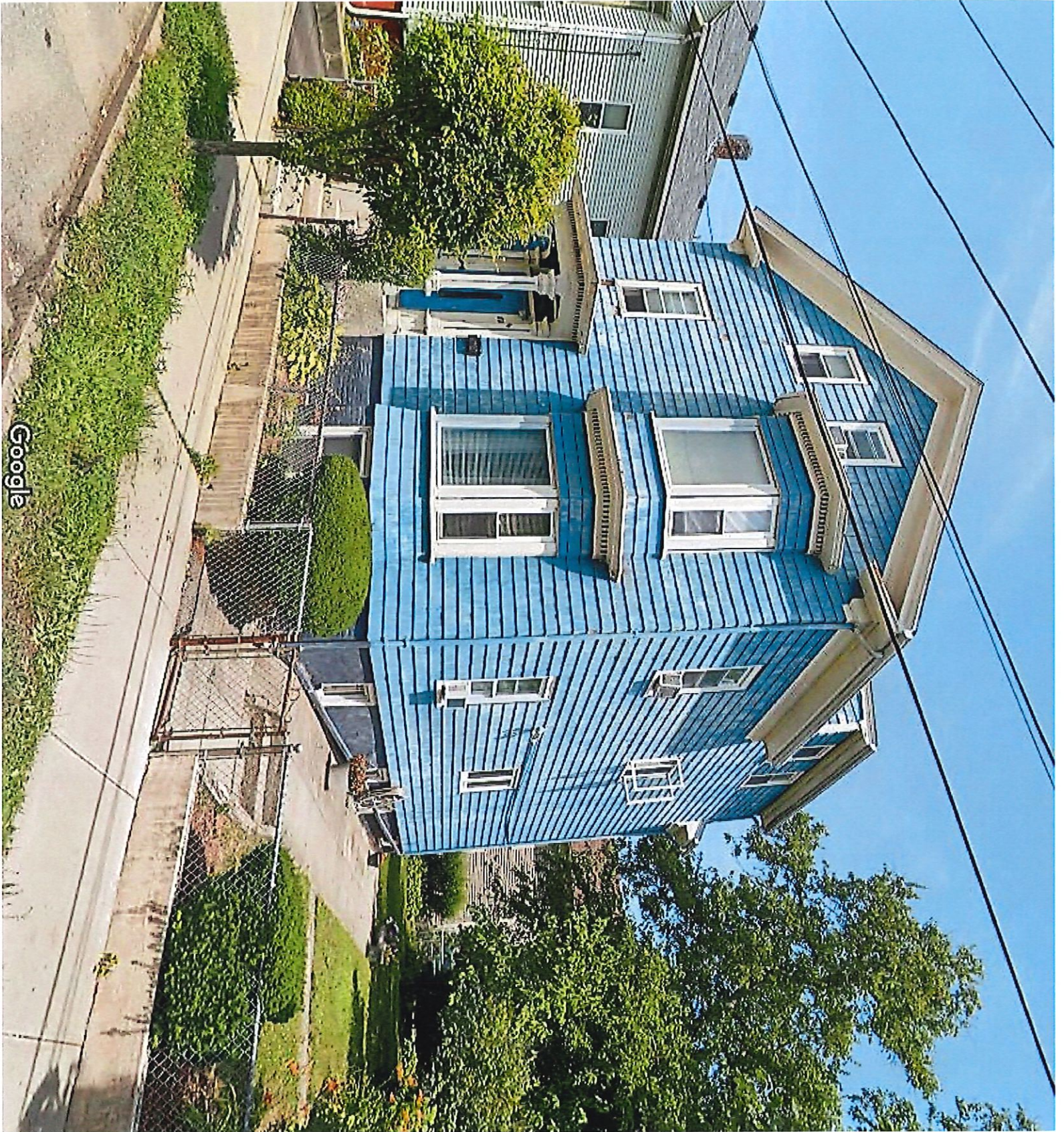
93

91

Sycamore St







73 Hudson St. Apt 2 Providence, RI 02909-1903 USA		
Issue: Dealer's Residence		
Net Meter: 1071 Hamblet Ct. 02928 Providence, RI 02909-1903 USA		
Inverters: 110 Robert US-72-24US Microinverters		
Solar System DC Size: 4.0kW AC Size: 2.9kW		
Solar Annual Production: 4,315.00 kWh		
Designed By: USR&C		
Date: 05/18/2021		
Revision #	Approval Date	Description



FRONT OF HOUSE

DOI: Summary Specifications	
BOM	
G-002.00	
Scale: NTS	
Page 9 of 9	

73 Hudson St, Apt 2 Providence, RI
02909-1903, USA

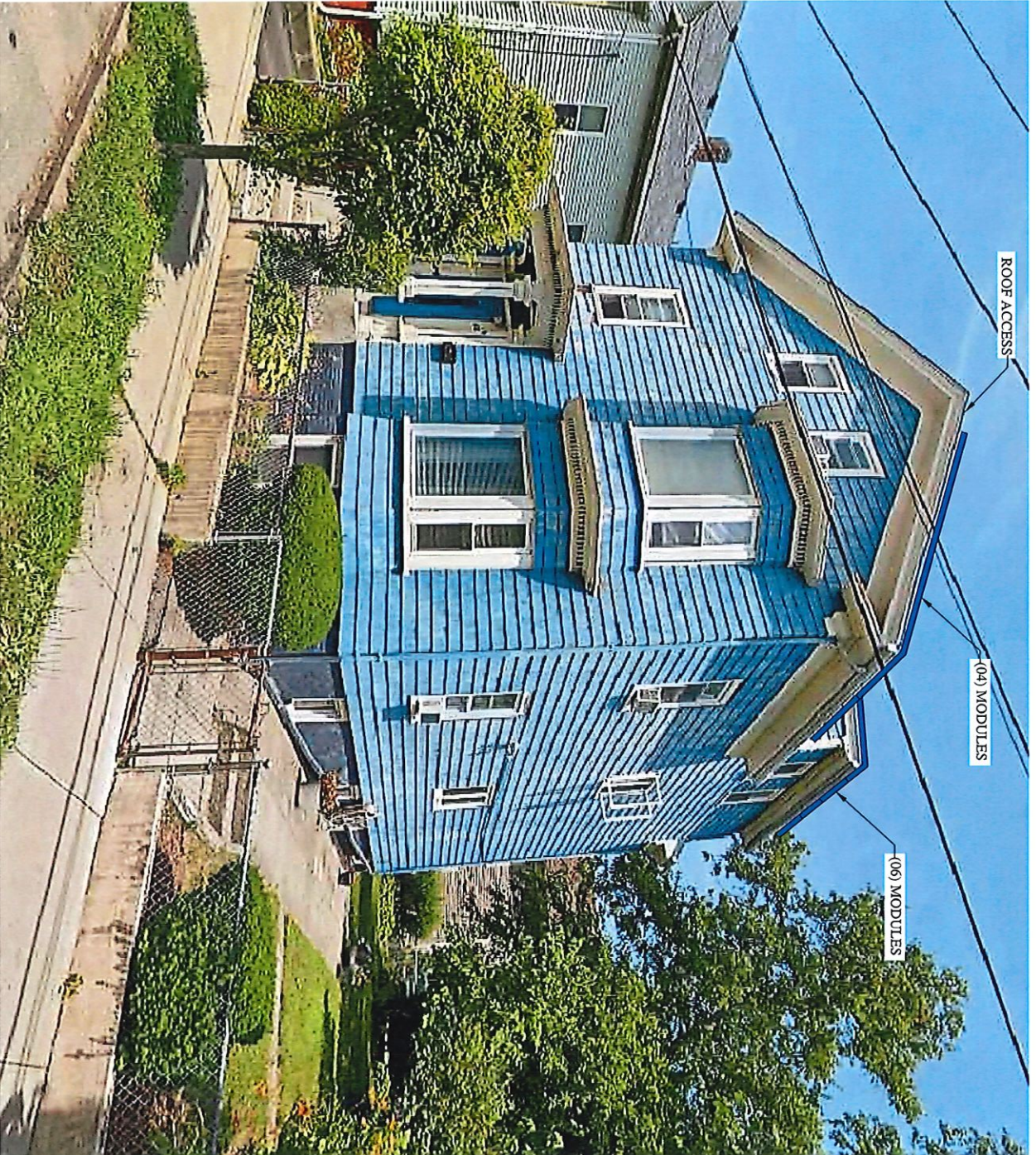
Project: Three Bay 2 Story Colonial Providence
Address: 73 Hudson St Providence, RI 02909
M. Call: 800 Number

Inverters: (10) IQMPLUS-72-2-4US Micro-Inverters
Solar System DC Size: 400KW AC Size: 240KW

Solar Annual Production: 43,159 kWh
Designed By: USNRAC

Date: 09/18/2013

Revision #	Approval Date	Description



RIGHT SIDE OF HOUSE

DOB Stamped Signature

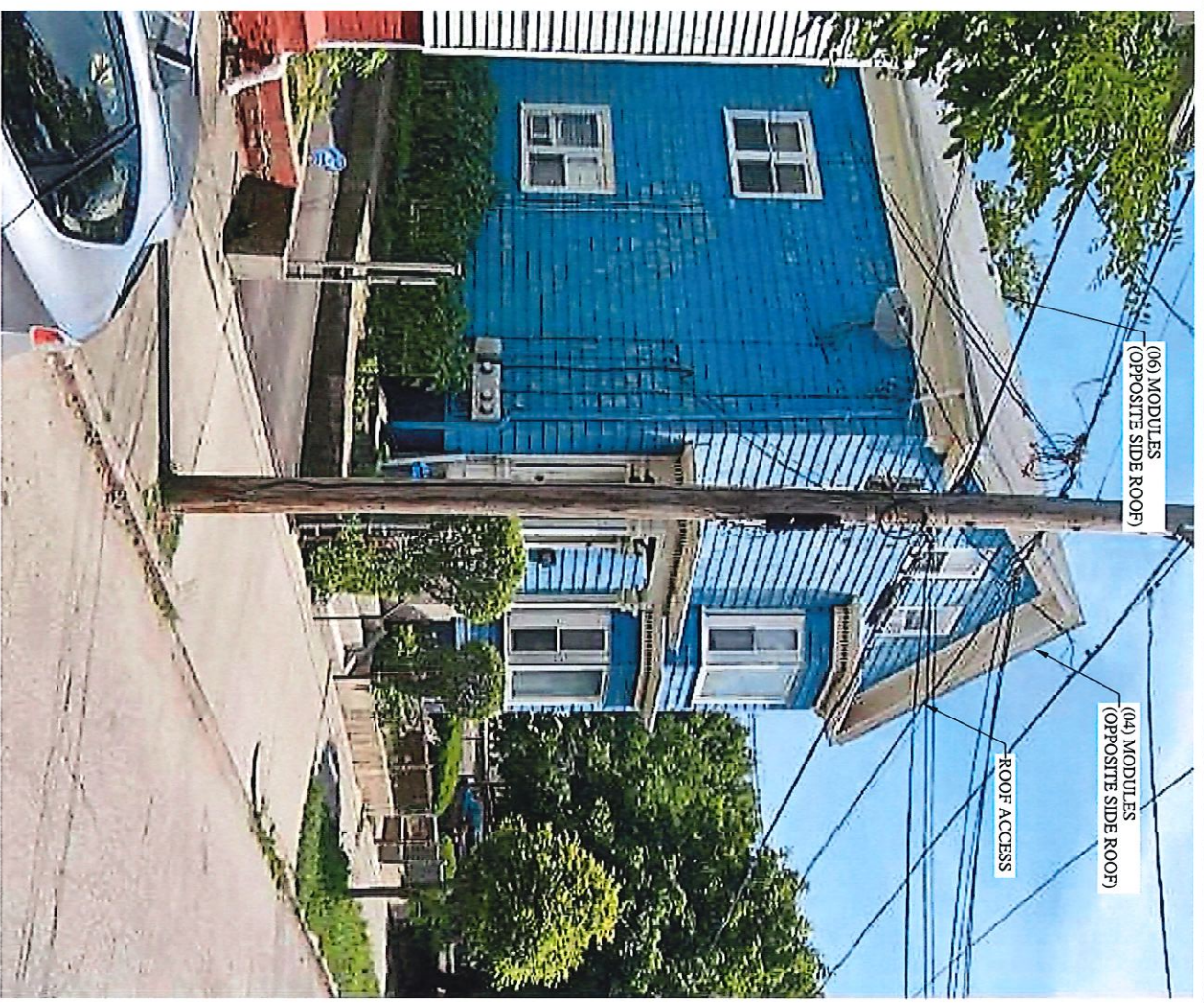
BOM

G-003.00

Scale: NTS

Page 9 of 9

73 Hudson St Apt 2 Providence, RI		
02909-1003, USA		
Josef Doolley's Residence		
1077 Premier (107) Laminar G-200 Q73FAK 1000 TRK		
ML-G10-400 Modules		
Inverters: (10) 1000W US-72-2US Micro-Inverters		
Solar System DC Size: 4.00kW AC Size: 2.96kW		
Solar Annual Production: 4.11550 kWh		
Designed By: INSRAC		
Date: 05/10/2015		
Revised #	Approval Date	Description



LEFT SIDE OF HOUSE

DOB Sample Signatures

BOM

G-004.00

Scale: NTS

Page 9 of 9