



ARCHITECTURAL & PRELIMINARY SITE PLAN REVIEW BOARD

MICHAEL F. LONGOBARDI – VILLAGE TRUSTEE LIAISON
TIMOTHY T. TWEEDY, P.E. – CHAIRMAN
JOHN LOCKWOOD
ANTHONY KRUYNSKI
ROGER KUEHNLENZ
EDWARD CHATTERTON

RENEE MARCUS, AIA – SUPERINTENDENT OF BUILDINGS
LUCILLE LANGONE – SECRETARY

MAY 17, 2023

8:00 pm

Note Location: Village Hall – Fire Fighters Hall, 2nd Floor

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
1	8:00 p.m.	215	Cypress Street	Re-submission - Awning over Rear Stoop	Raimonda and Saimir Kryeziu	
2	8:05 p.m.	17	Ward Street	In-Ground Pool	John Ring	ASB Engineering
3	8:10 p.m.	143	Tulip Avenue	Storefront	Janet Decker	John J. Tacetta
4	8:15 p.m.	25	North Tyson Avenue	Solar	Olvin Serrano	Venture Home Solar
5	8:20 p.m.	11	Ash Street	Solar	Fatima Hoque	Sunrun
6	8:25 p.m.	24	Cedar Place	Solar	Nico Cappuccio	Momentum Solar
7	8:30 p.m.	96	Charles Street	Solar	Wing Chung	All Air Specialists Inc.
8	8:35 p.m.	266	Whittier Avenue	Re-submission - Brick Color Change	Rajinder Kaur	M. Azeem PE

Questions about the projects can be emailed to ARB@FPVillage.org prior to the meeting to allow for the Village and Applicant to be prepared with answers.

Supporting documents will be posted to the Architectural Review Board web page at least 24 hours prior to the meeting.

Click [here](#) for the ARB webpage.

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
1	8:00 p.m.	215	Cypress Street	Re-submission - Awning over Rear Stoop	Raimonda and Saimir Kryeziu	



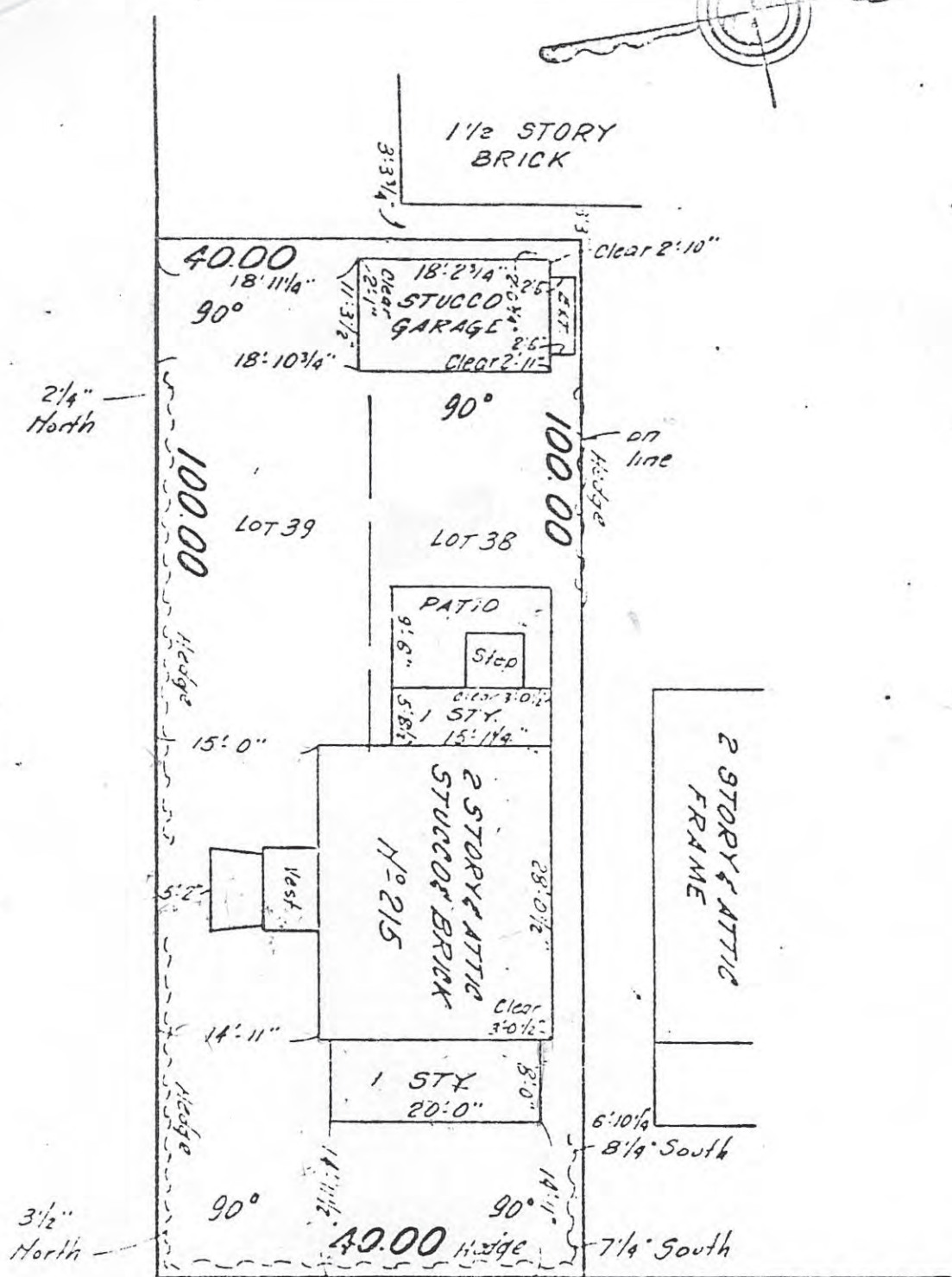
215 Cypress Street (Aerial View)



60'

CYPRESS

ST.



De Lage

328-7618

215 LANDAU
Cypress

AVE.

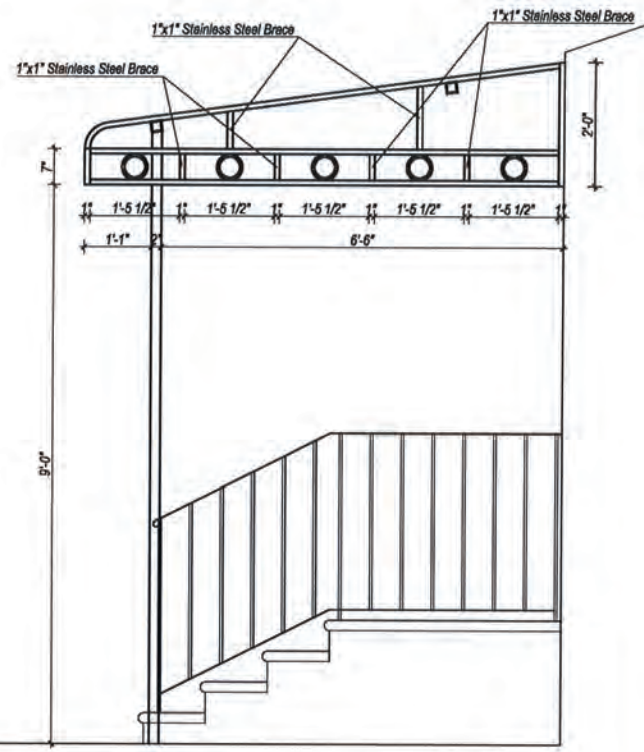
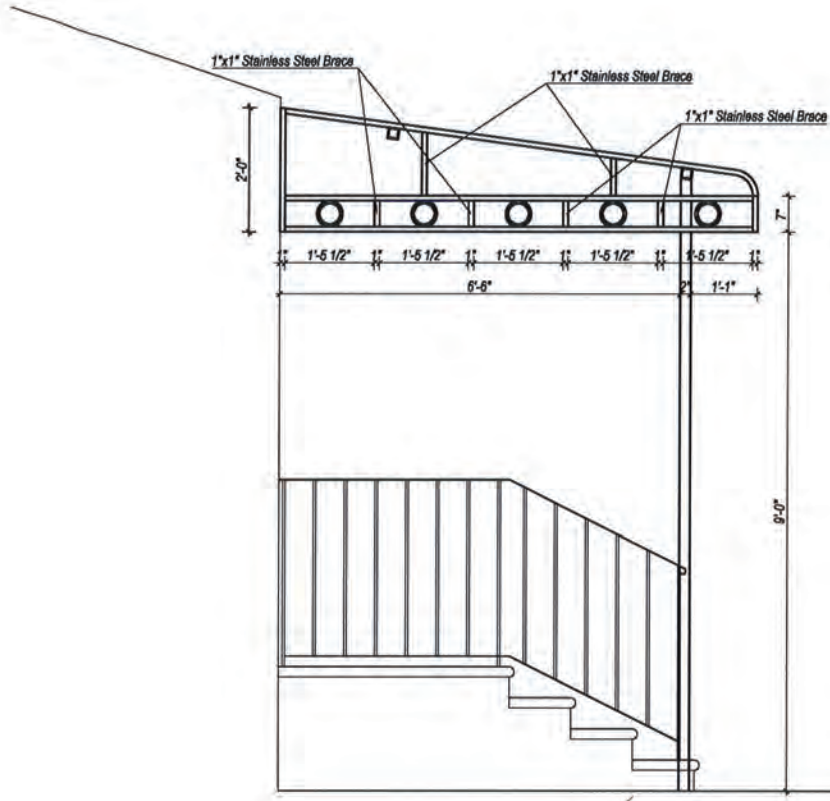
60'

LOT NOS. REFER TO MAP OF Floral Park Estates Block 3

GUARANTEED TO The Title Guarantee Company

Jamaica Savings Bank

Geo WILLIAM H. PARRY, INC.



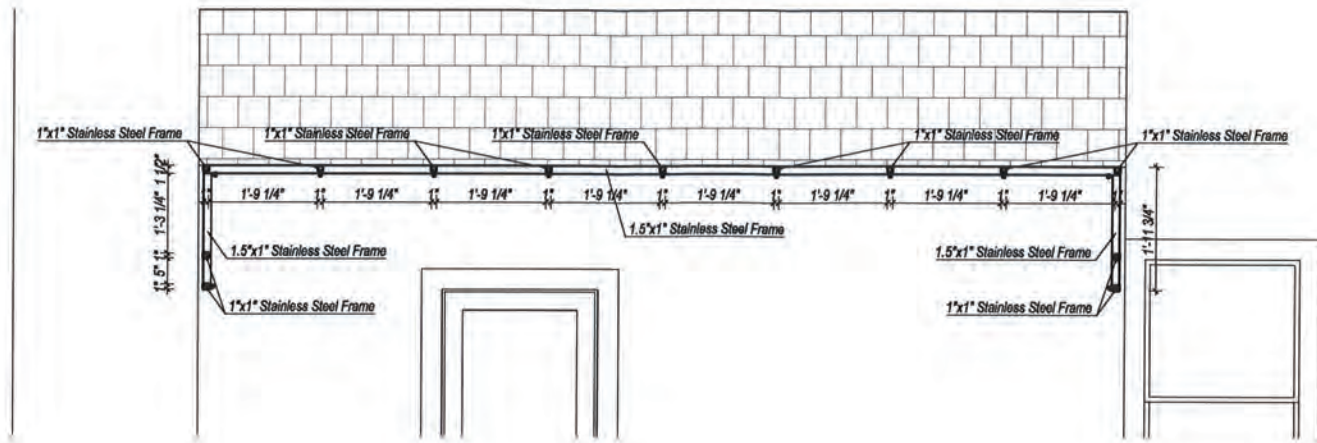
<C>
1/2" = 1'-0"



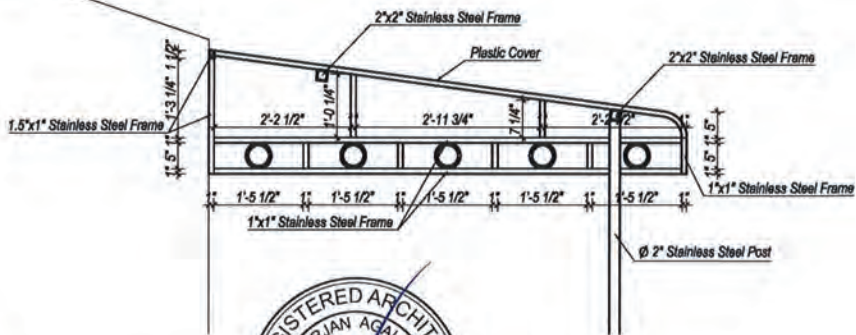
1/2" = 1'-0"

AWNING STRUCTURE AT BACKYARD
215 Cypress St Floral Park NY 11001

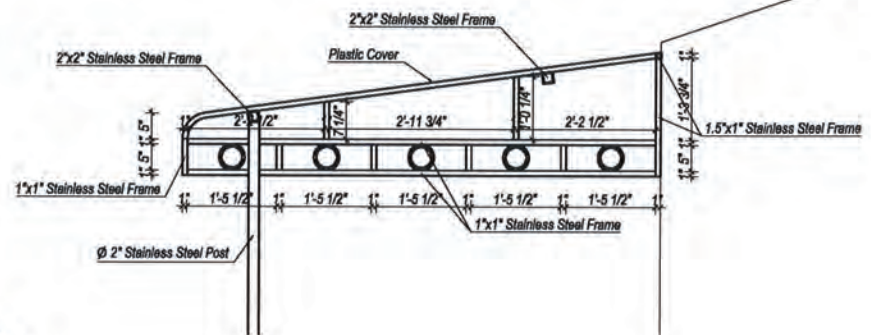
A-2.2



<1>
1/2" = 1'-0"



<2>
1/2" = 1'-0"

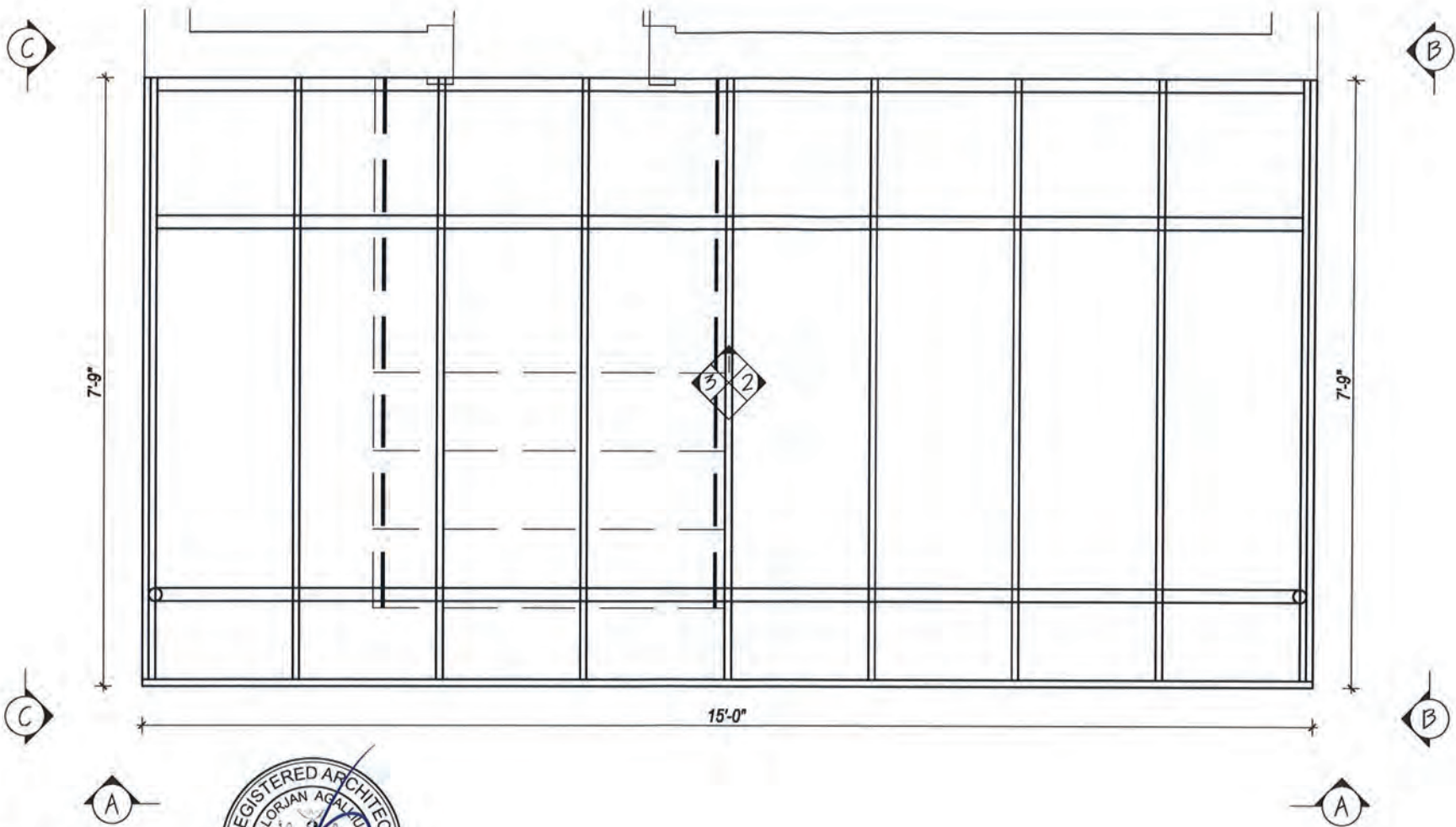


<3>
1/2" = 1'-0"

AWNING STRUCTURE AT BACKYARD

215 Cypress St Floral Park NY 11001

A-3.1



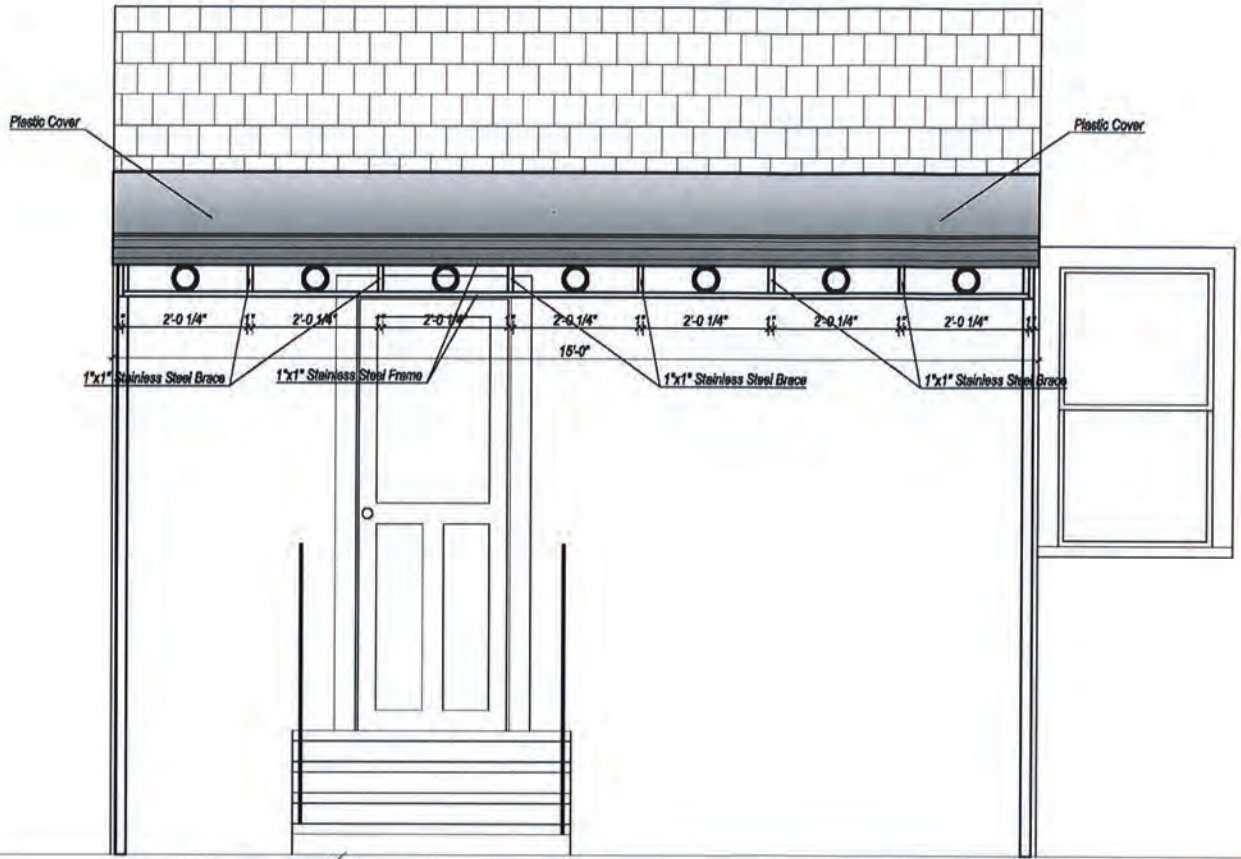
Awning Plan
 3/4" = 1'-0"



AWNING STRUCTURE AT BACKYARD

215 Cypress St Floral Park NY 11001

A-1.1



Notes:

1. Awning framing material is stainless steel
2. Wall thickness of all framing tube elements is 0.0625"
3. Awning cover material is plastic



<A>
1/2" = 1'-0"

AWNING STRUCTURE AT BACKYARD

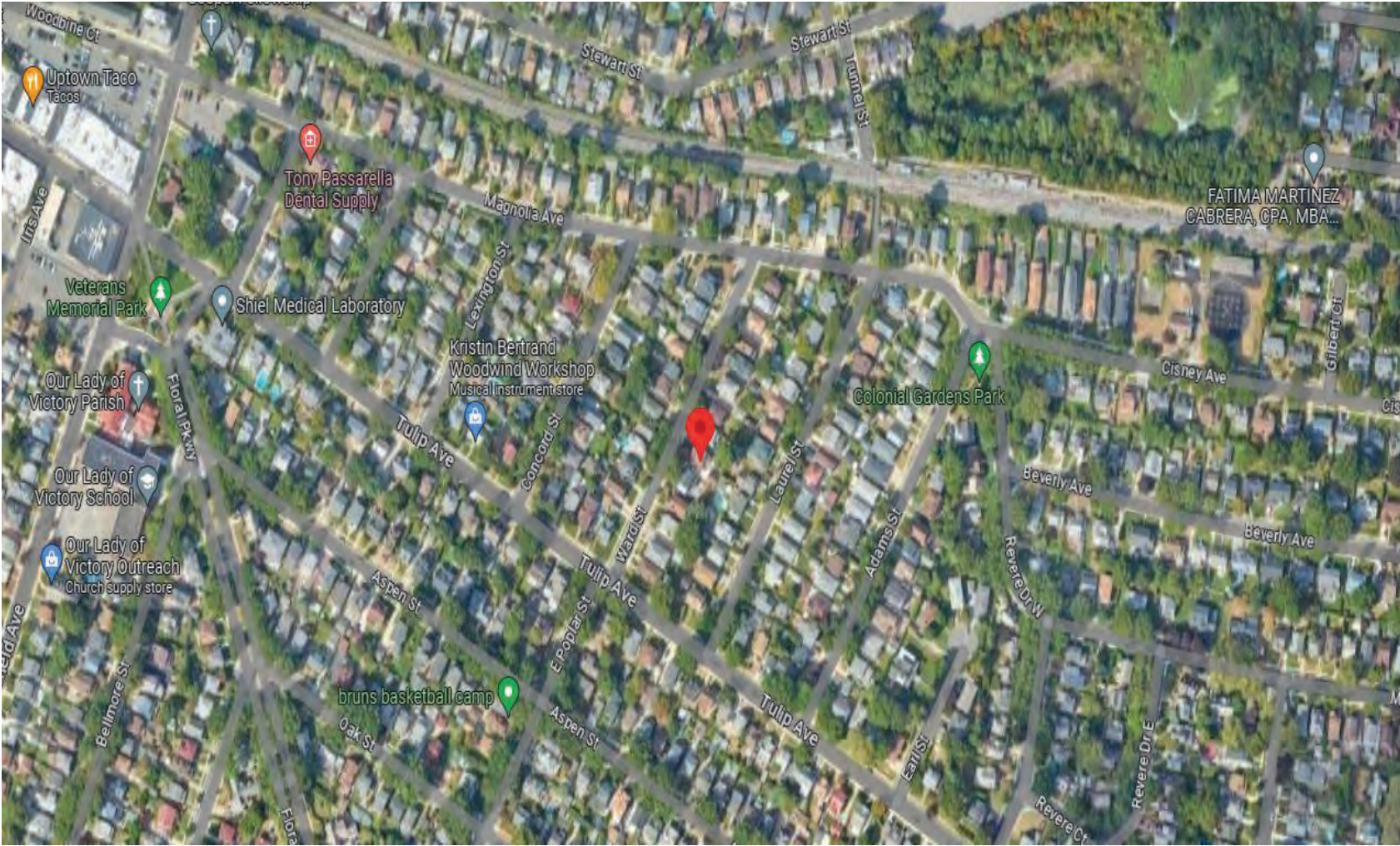
215 Cypress St Floral Park NY 11001

A-2.1

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
2	8:05 p.m.	17	Ward Street	In-Ground Pool	John Ring	ASB Engineering



17 Ward Street (Aerial View)



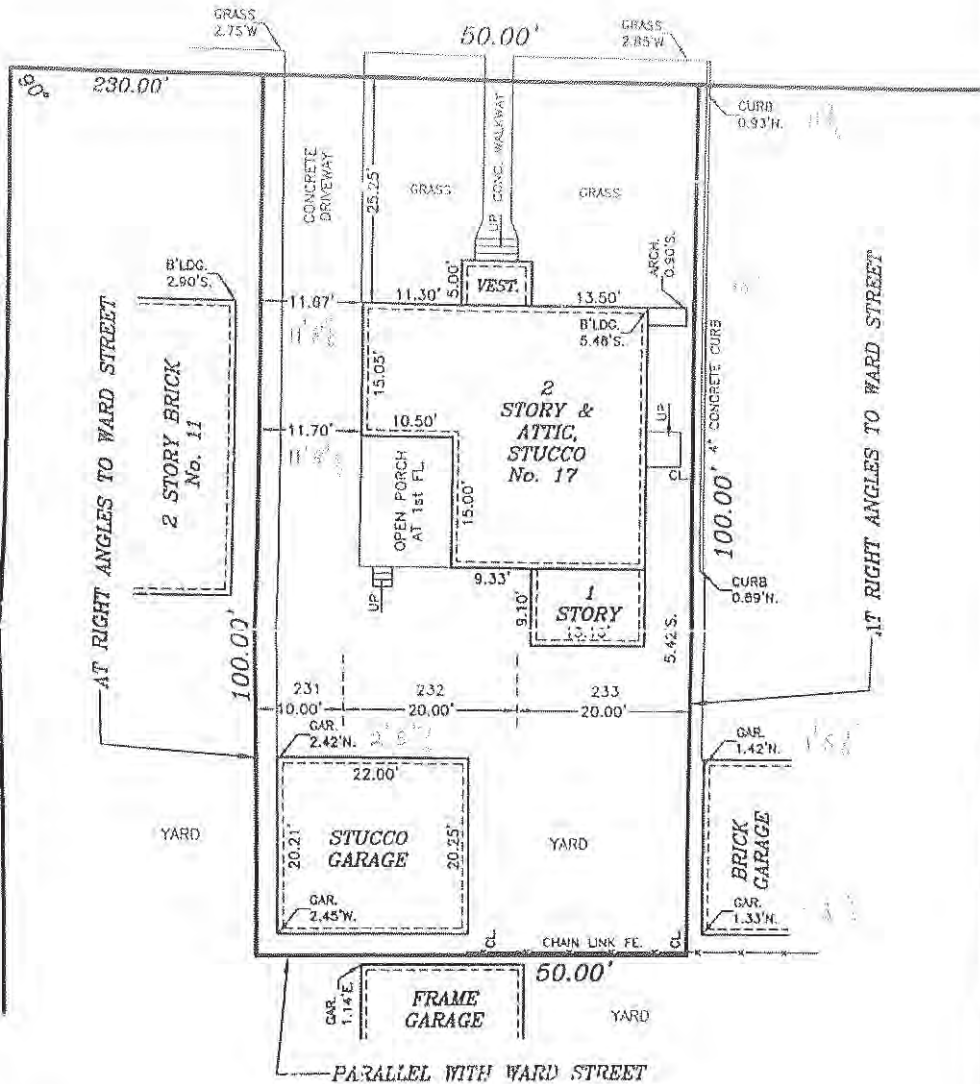




KNOWN AND DESIGNATED AS AND BY THE LOTS Nos. 231 AND 232 AND THE NORTHERLY 1/2 OF LOT 233 ON A CERTAIN MAP ENTITLED "PLAN OF LOTS AT FLORAL PARK, MAP No. 265, CASE No. 1968, DTD JULY 29, 1965"

WARD STREET

TULIP AVENUE



NOTES:

1. THIS SURVEY IS INTENDED TO BE USED FOR TITLE PURPOSES ONLY AND IS SUBJECT TO WHATEVER A COMPLETE TITLE SEARCH MAY REVEAL.
2. USING IT TO LOCATE NEW CONSTRUCTION MAY RESULT IN PROBLEMS FOR WHICH THIS SURVEYOR WILL NOT BE LIABLE.
3. PROPERTY CORNER MONUMENTS WERE NOT PLACED AS PART OF THIS SURVEY.
4. THIS IS TO CERTIFY THAT THERE ARE NO VISIBLE STREAM NOR NATURAL WATER COURSES IN THE PROPERTY EXCEPT AS SHOWN ON THIS SURVEY.
5. THE STATE EDUCATION LAW PROHIBITS ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR TO ALTER A ITEM IN ANY WAY.

CERTIFIED TO:
 CHICAGO TITLE INSURANCE COMPANY
 WELLS FARGO BANK, N.A.,
 ITS SUCCESSORS AND/OR ASSIGNS
 LIBERTY ABSTRACT, INC.
 JOHN G RING JR.
 JESSICA RING
 EILEEN RING



TITLE NO. LL-6876-13-N

CONSTRUCTION SURVEYING, Inc.

49 TEN EYCK STREET BROOKLYN, NY 11206
 TEL (917) 518-3435, FAX (347) 463-9578
 EMAIL: CONSTSURVEYING@AOL.COM

TITLE SURVEY OF PROPERTY
 SITUATED IN FLORAL PARK, COUNTY OF
 NASSAU, CITY & STATE OF NEW YORK
 BLOCK 255 LOT 132 & 233 SECTION 32

DATE: 12/27/13 SCALE: 1"=15' JOB No.: N32-255

DOOR WHICH:
 HE DOOR AND
 F 30 SECONDS
 UT THE HOUSE
 DITIONS, AND
 CH AS
 3 (SUCH
 IN 15
 S) MUST BE

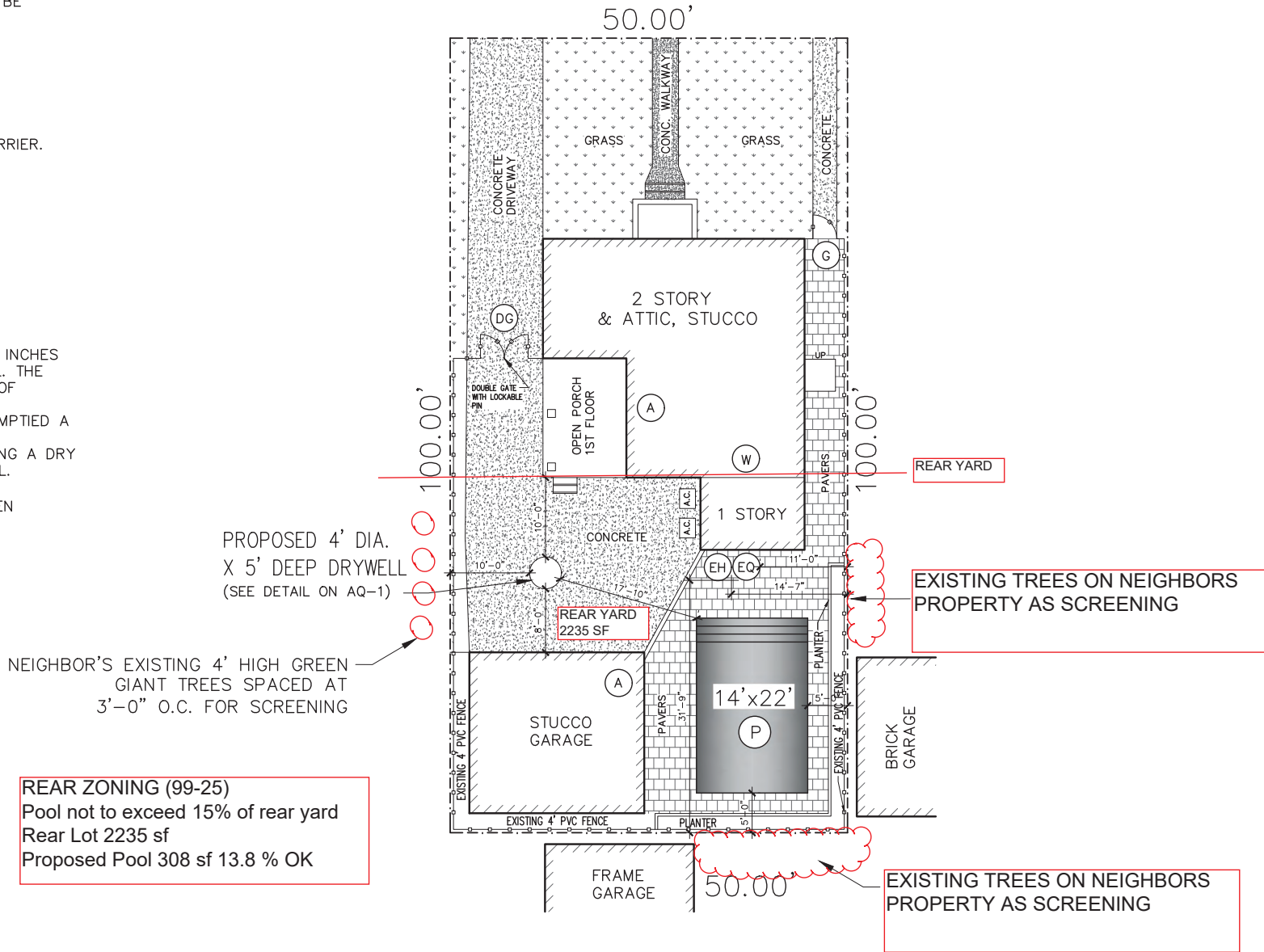
THE BARRIER.

IN OUT

AND SIX INCHES
 THE POOL. THE
 'UMPING OF
) AFTER
 IST BE EMPTIED A
 DURING
 MAINTAINING A DRY
 THE POOL.

GATE OPEN

WARD STREET



PLOT PLAN
 SCALE: 1"=10'-0"

LEGEND

- FENCE
- - - - - PROPERTY LINE

GENERAL NOTES:

THE ENGINEER HAS BEEN RETAINED ONLY FOR THE PURPOSE OF FILING THE PLANS TO OBTAIN A PERMIT AND HAS NOT BEEN RETAINED FOR ANY SUPERVISION OR OBSERVATION OF THE WORK, AND HIS RESPONSIBILITY IS LIMITED TO THE ACCURACY OF THE PLANS. THESE DRAWINGS ARE FOR BUILDING DEPT. USE ONLY.

NOTED DIMENSIONS SHALL TAKE PRECEDENCE OVER THOSE SCALED.

ANY OMISSIONS OR CHANGES IN THESE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO ALL CONSTRUCTION AND/OR INSTALLATIONS BY THE CONTRACTOR.

THE CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD.

THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITY PIPING PRIOR TO THE PROPOSED CONSTRUCTION EXCAVATION.

EVERY RESIDENTIAL AND COMMERCIAL SWIMMING POOL SHALL HAVE SWIMMING POOL ALARMS WHICH COMPLY WITH THE REQUIREMENTS SET FORTH IN THE CURRENT NEW YORK STATE UNIFORM FIRE PREVENTION BUILDING CODE, AND NYS 2020 UNIFORM CODE SUPPLEMENT, SUBJECT TO THE EXCEPTIONS SET FORTH THEREIN.

THE POOL SHALL BE EQUIPPED WITH A COVER APPROVED BY THE BUILDING DEPARTMENT OF THE TOWN AND SHALL BE OF SUFFICIENT STRENGTH TO PROTECT AGAINST ACCIDENTAL ENTRY INTO THE POOL. THE POOL SHALL BE COVERED AT ALL TIMES WHEN CONTAINING WATER AND NOT IN USE.

ALL ELECTRICAL WORK SHALL COMPLY WITH ARTICLE 680 (NATIONAL ELECTRIC CODE) AND AN APPROVED ELECTRICAL INSPECTION CERTIFICATE MUST BE SUBMITTED PRIOR TO ISSUANCE OF CERTIFICATE OF COMPLETION.

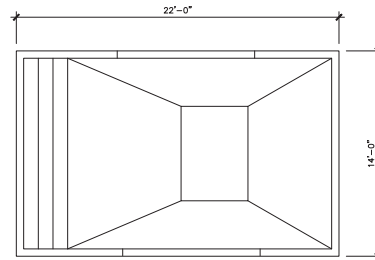
THE POOL SHALL BE FILLED MANUALLY WITH A GARDEN TYPE HOSE FED FROM A HOSE BIB WITH A VACUUM BREAKER. THERE WILL BE NO DIRECT WATER CONNECTION TO THE POOL.

THE CONTRACTOR SHALL BRACE, SHORE, REINFORCE, AND/OR UNDERPIN ALL NEIGHBORING STRUCTURES AS REQUIRED FOR SAFE OPERATION.

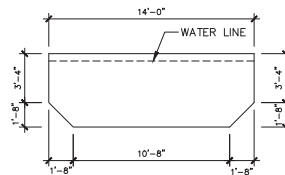
ALL SITE DEVELOPMENT INCLUDING RETAINING WALLS, SIDEWALKS, PLANTINGS, ETC. BY OTHERS.

ALL PLUMBING TO BE INSTALLED BY A LICENSED PLUMBER IN ACCORDANCE WITH THE NYS BUILDING CONSTRUCTION CODE.

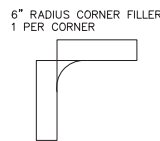
DURING CONSTRUCTION OF THE POOL, A TEMPORARY BARRIER SHALL BE INSTALLED WITH A MINIMUM HEIGHT OF 4'0".



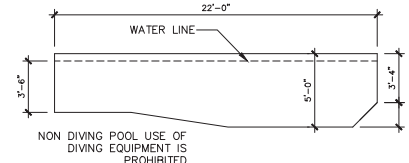
POOL PLAN
SCALE: 1/4"=1'-0"



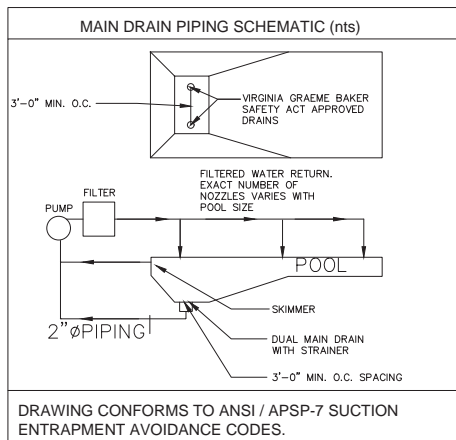
POOL CROSS SECTION "A"
SCALE: 1/4"=1'-0"



POOL CORNER WALL DETAIL
SCALE: 1/2"=1'-0"

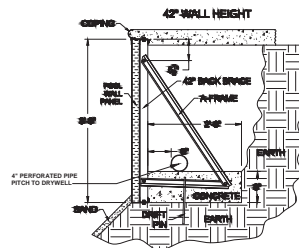


POOL CROSS SECTION "B"
SCALE: 1/4"=1'-0"



DRAWING CONFORMS TO ANSI / APSP-7 SUCTION ENTRAPMENT AVOIDANCE CODES.

POOL DRAIN DETAIL
SCALE: NOT TO SCALE

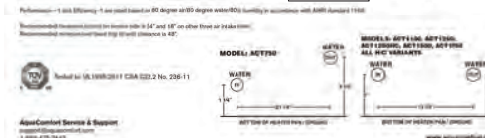


IN-GROUND WALL DETAIL
SCALE: NOT TO SCALE



2017 Signature XL Series Heat Pump Specifications

Model	ACT750	ACT1100	ACT1350	ACT1500	ACT1750	ACT1250HC
Compressor	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
Minimum Breaker Size	30	50	40	40	60	40
Manufacturer's Phase	230V/1P	230V/1P	230V/1P	230V/1P	230V/1P	230V/1P
Water Flow (GPM)	18 (30)	20 (30)	20 (30)	20 (30)	20 (30)	20 (30)
Electronics (L/R/R)	230V/1P/2E	230V/1P/2E	230V/1P/2E	230V/1P/2E	230V/1P/2E	230V/1P/2E
Shipping Weight (lbs)	170	240	240	250	290	200
Performance (BTU/hr) @ 1	55000	93000	108000	128000	148000	148000
Efficiency (EER) @ 1	5.1	5.4	5.8	5.7	5.8	5.1



ELECTRIC HEATER SPECIFICATIONS
SCALE: NOT TO SCALE

ALL DIMENSIONS ARE TO BE FIELD VERIFIED

17 WARD STREET
FLORAL PARK, NY 11001
COUNTY OF NASSAU
STATE OF NEW YORK

RING
RESIDENCE

SECTION 32
BLOCK 255
LOT 132

All Drawings, Specifications and the design expressed therein are the sole property of ASB Engineering, P.C. They are to be used only with respect to this Project and are not to be copied or reproduced without written permission of ASB Engineering, P.C.

ISSUED FOR:

BUILDING DEPT.

PROJECT NO. _____

DATE 05-06-23

SCALE AS NOTED

DRAWN BY LC

ASB ENGINEERING

1924 Bellmore Avenue
Bellmore, New York 11710
Phone: (516) 785-4200
Fax: (516) 785-9148

SEAL:

LIC # 07744
ANDREW S. ...
1924 BELLMORE AVE. BELLMORE, NY, 11710

DRAWING:

GENERAL NOTES,
POOL PLAN, CROSS SECTIONS,
ELECTRICAL HEATER
SPECIFICATIONS & DETAILS

PROJECT:

PROPOSED INGROUND
SWIMMING POOL

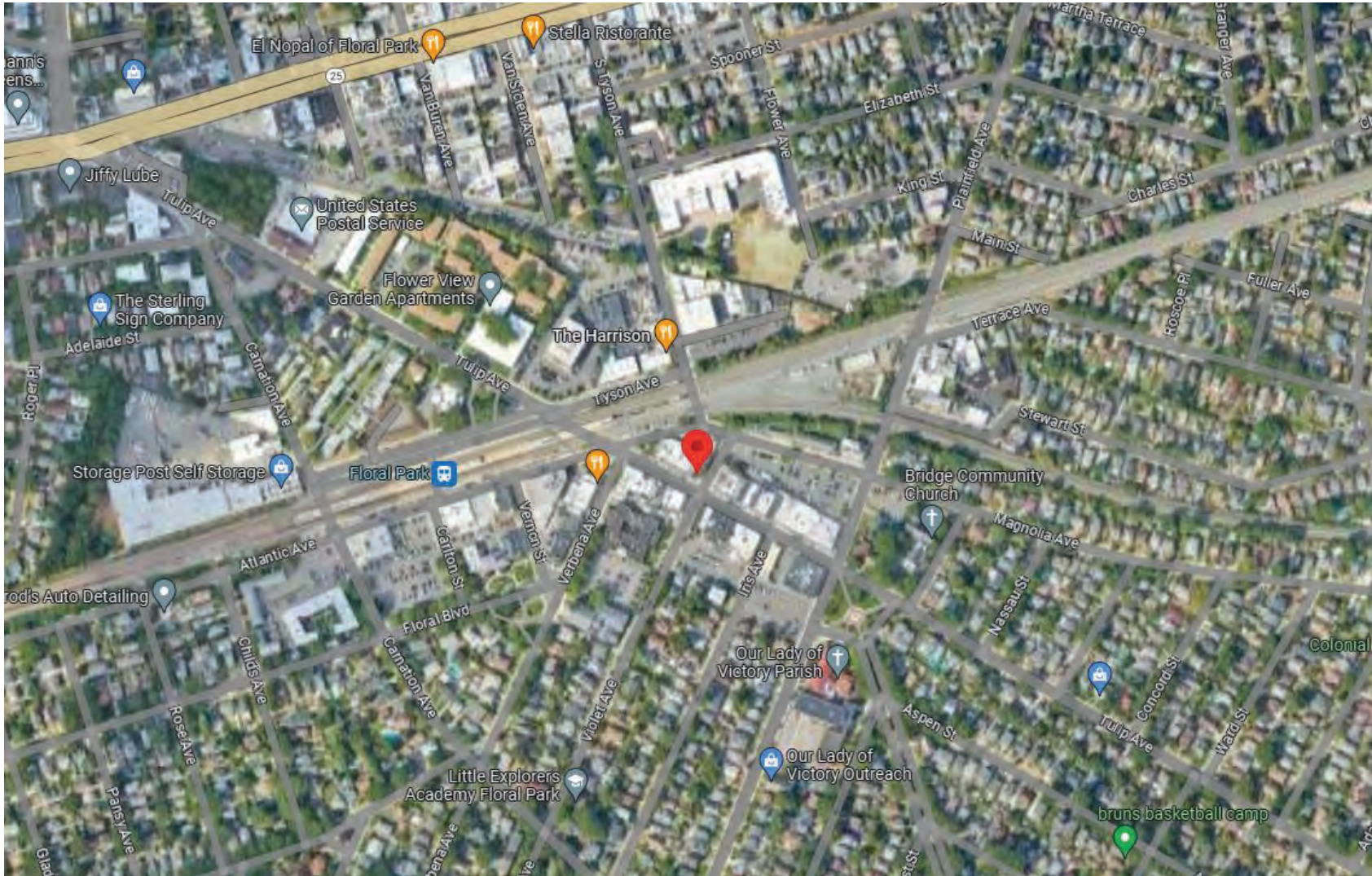
DRAWING No.

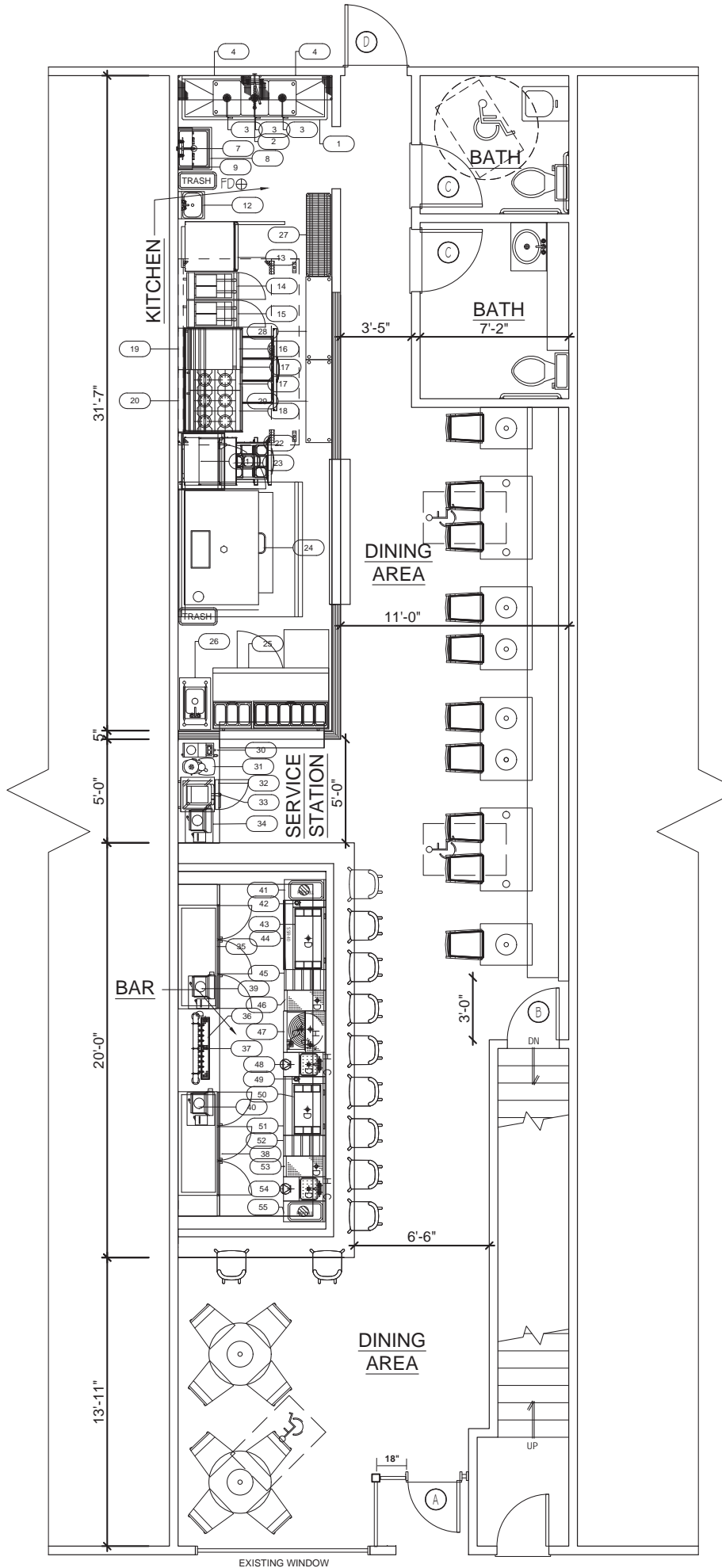
AQ-2

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
3	8:10 p.m.	143	Tulip Avenue	Storefront	Janet Decker	John J. Tacetta



143 Tulip Avenue (Aerial View)





PROPOSED FIRST FLOOR PLAN

1/4" = 1'-0"



NEW ALUMINUM STOREFRONT

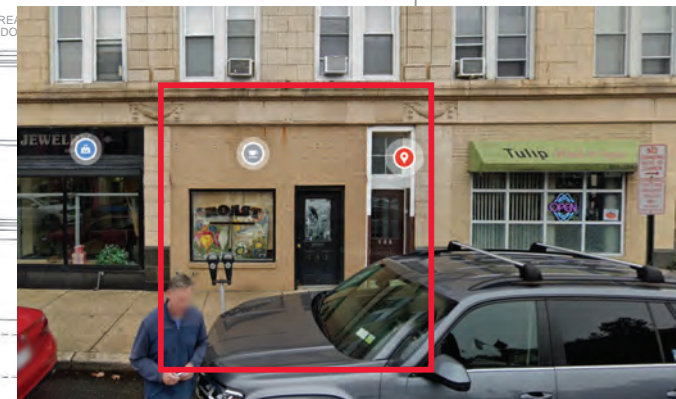
FRONT ELEVATION

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

- DOOR NOTES**
1. ALL DIMENSIONS ARE TO FRAME
 2. INSTALL AS PER MANUFACTURER'S SPECIFICATIONS
 3. F.P.S.C. - FIRE PROOF SELF CLOSING
 4. SHGC: SLIDING GLASS PATIO DOOR 0.25
 5. ALL GLASS DOORS TO BE TEMPERED PER IBC602



NEW REAR DOOR
SEE DOOR SCHEDULE

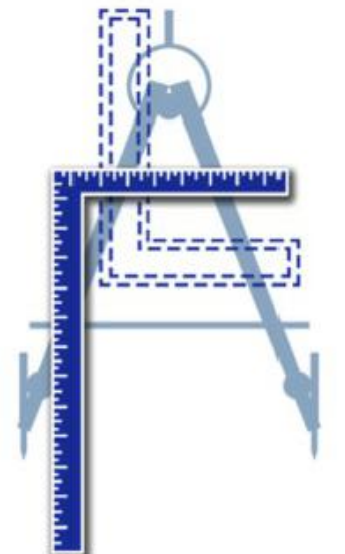




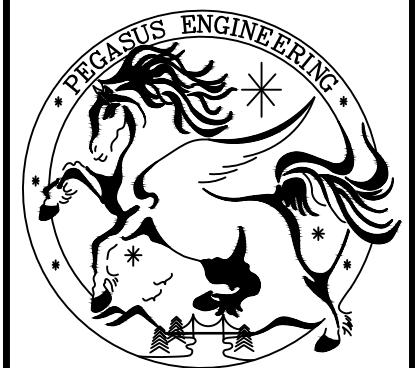
NEW ALUMINUM STOREFRONT

FRONT ELEVATION

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



FLA Associates
of NY, LLC
"builders by design"
769 Dogwood Avenue.
West Hempstead, NY 11552
Direct (516)779-1875
fax (516)292-0930



PEGASUS ENGINEERING
PLAN FOR BETTER RESULTS
546 BYDENBURGH ROAD, HAUPPAUGE, NY 11788



PROPOSED INTERIOR ALTERATIONS FOR
**143 TULIP AVE, FLORAL PARK,
NY, 11001**

DATE: 10/29/2022
SCALE: AS NOTED
DRAWN BY: R.ORDONEZ
TITLE:

EXTERIOR ELEVATIONS

SHEET
A-106



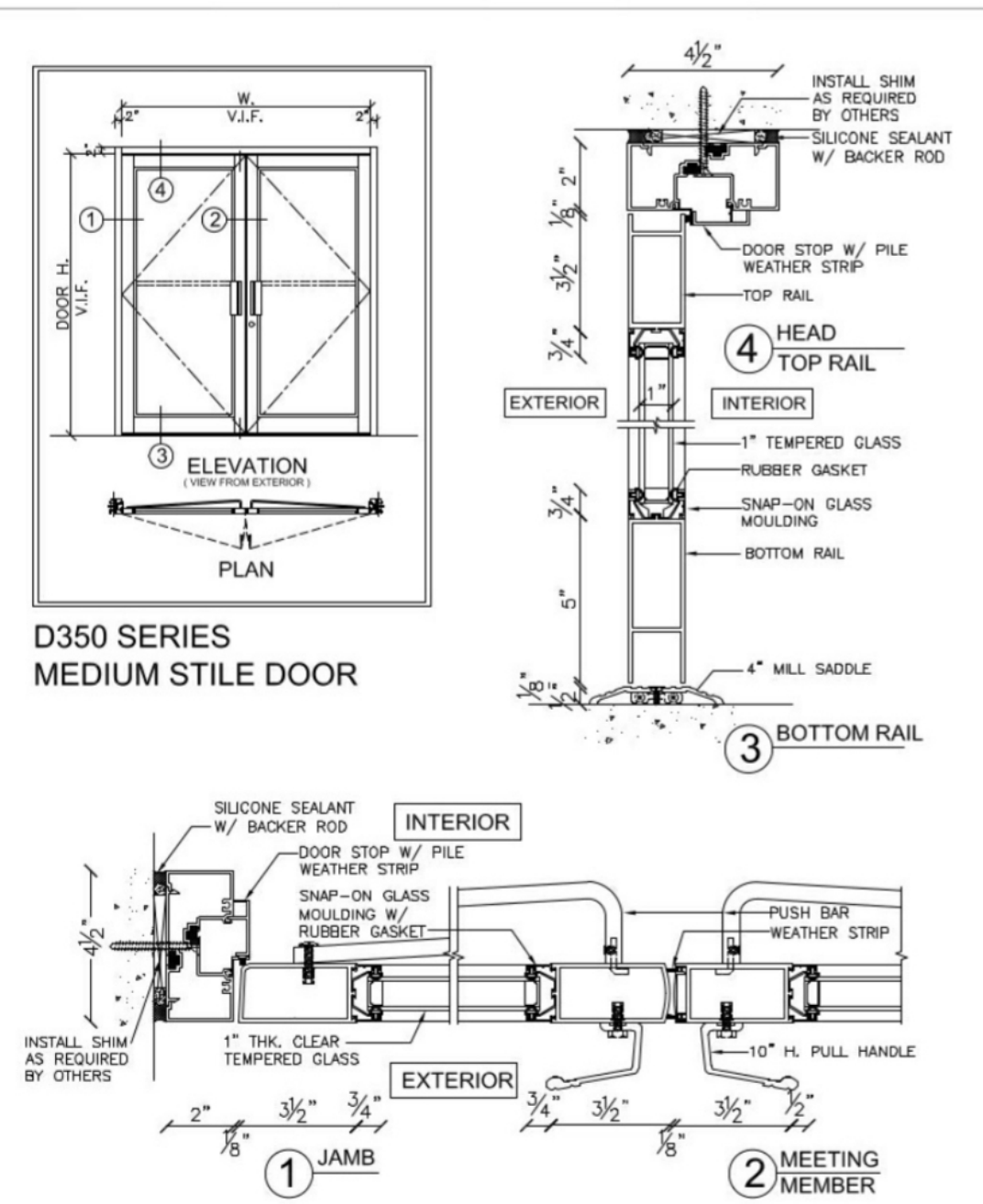
NEW ALUMINUM STOREFRONT

FRONT ELEVATION

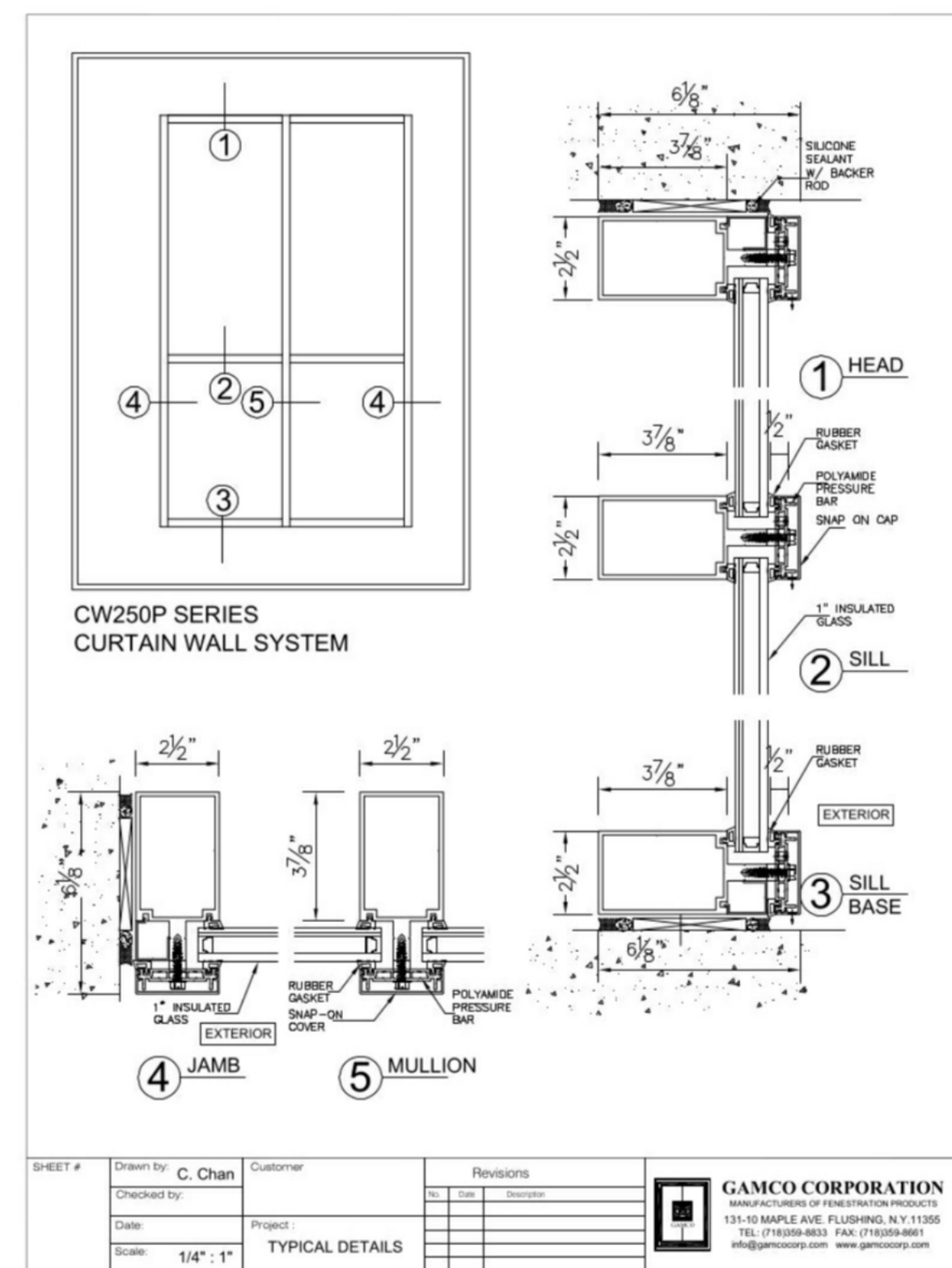
SCALE: 1/2" = 1'-0"



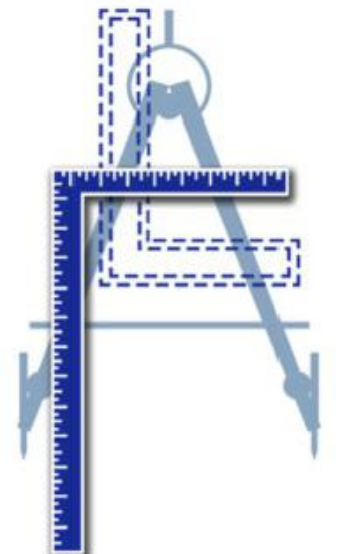
- DOOR NOTES:**
1. ALL DIMENSIONS ARE TO FRAME
 2. INSTALL AS PER MANUFACTURER'S SPECIFICATIONS
 3. F.P.S.C. - FIRE PROOF SELF CLOSING
 4. SHGC: SLIDING GLASS PATIO DOOR: 0.26
 5. ALL GLASS DOORS TO BE TEMPERED PER NYSBC



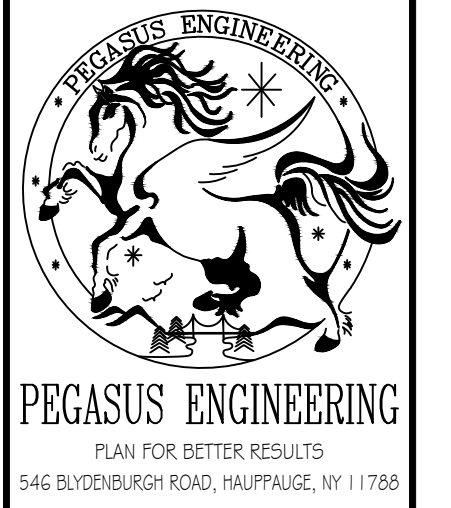
SHEET #	Drawn by: K. S. LEO	Customer:	Revisions:	<p>GAMCO CORPORATION 131-10 MAPLE AVE. FLUSHING, NY 11355 TEL: (718) 224-8833 FAX: (718) 224-8881 www.gamco-usa.com</p>
	Checked by: C. CHAN		1. 1/28/2022	
	Date:	Project:	2. 1/28/2022	
	Scale: 1/4" = 1"			



SHEET #	Drawn by: C. Chan	Customer:	Revisions:	<p>GAMCO CORPORATION 131-10 MAPLE AVE. FLUSHING, NY 11355 TEL: (718) 224-8833 FAX: (718) 224-8881 www.gamco-usa.com</p>
	Checked by:		1. 1/28/2022	
	Date:	Project:	2. 1/28/2022	
	Scale: 1/4" = 1"			



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Direct (516) 779-1875
fax (516) 292-0930



PROPOSED INTERIOR ALTERATIONS FOR
143 TULIP AVE, FLORAL PARK,
NY, 11001

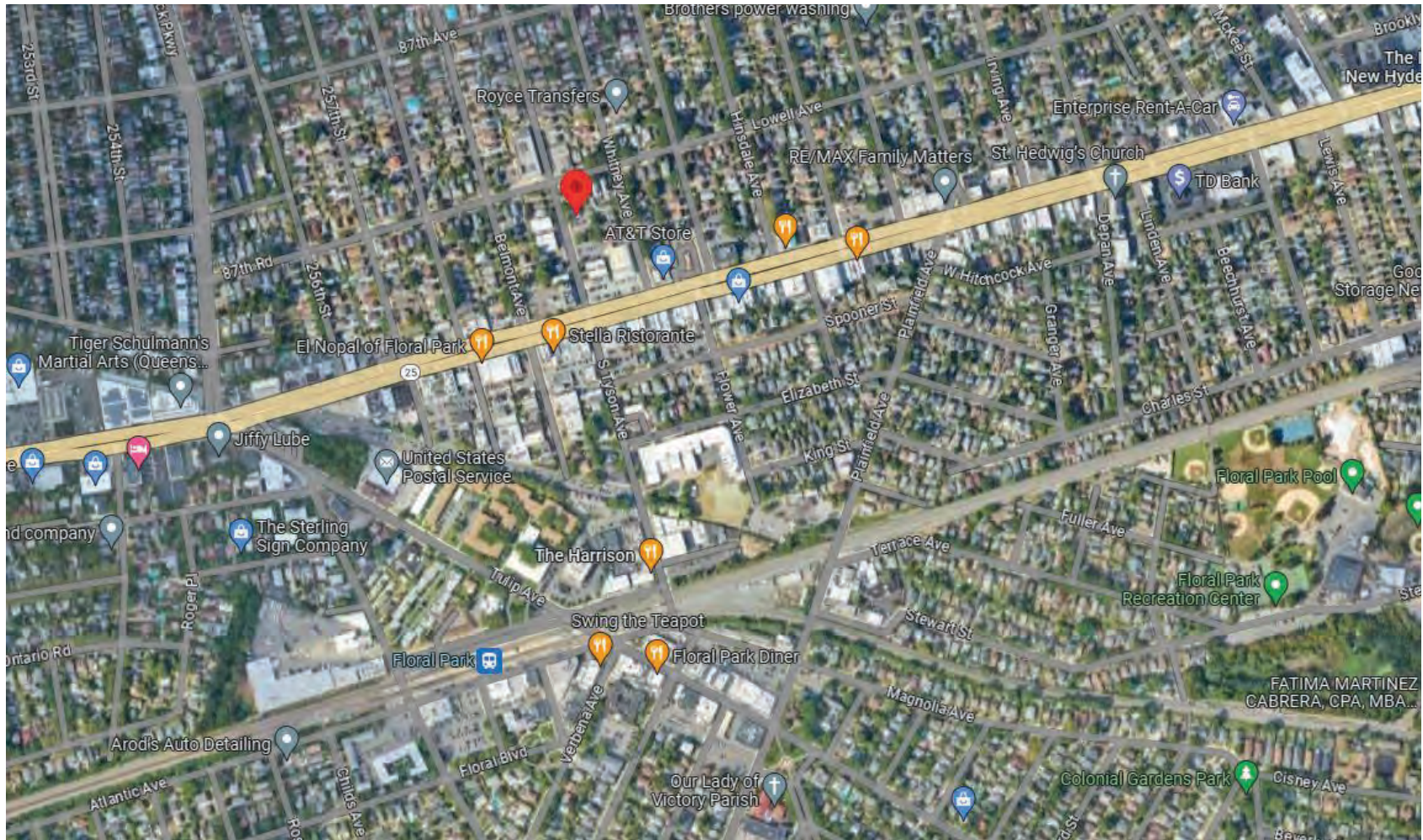
DATE: 10/29/2022
SCALE: AS NOTED
DRAWN BY: R. ORDONEZ
TITLE: EXTERIOR ELEVATIONS

SHEET A-106

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
4	8:15 p.m.	25	North Tyson Avenue	Solar	Olvin Serrano	Venture Home Solar



25 North Tyson Avenue (Aerial View)









25

3

GLX-9575

JJC-9621









67 West St, Brooklyn, NY 11222
www.venturesolar.com
(800) 203-4158

25 N Tyson Av, Floral Park, NY 11001-1514, USA		
Bernardita Estrella's Residence		
Solar Panels: (14) Hanwha Q-CELL Q-PEAK DUO BLK ML-G10L-400 Modules		
Inverters: (14) IQ8PLUS-72-2-US Micro-Inverters		
Solar System DC Size: 5.60KW AC Size: 4.06KW		
Solar Annual Production : 8.605.00 KWH		
Designed By: UNIRAC		
Date: 4/15/2023		
Revision #	Approval Date	Description

SOLAR ELECTRIC GENERATION INSTALLATION ON EXISTING RESIDENCE: 25 N Tyson Av, Floral Park, NY 11001-1514, USA

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

SCOPE OF WORK

SCOPE OF WORK IS SOLELY FOR THE INSTALLATION OF THE SOLAR ELECTRIC GENERATING SYSTEM. ALL OTHER WORK 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 or with the structural reinforcement specified on page S-000.00, has been structurally analyzed and has been determined to be capable of supporting the loads imposed by 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 come into contact with any part of the solar electric generating system.

APPLICABLE CODES

All proposed work shall meet the standards specified in the 2020 Residential Code of New York, 2017 National electrical code and all other applicable local and state building and fire codes.

IT IS A VIOLATION OF ARTICLE 145, SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW, FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF THE LICENSED PROFESSIONAL ENGINEER OF RECORD, TO ALTER ANY ITEM SPECIFIED OR OTHERWISE INCLUDED ON THIS DESIGN DRAWING IN ANY WAY.

THESE DESIGN DRAWINGS HAVE BEEN PREPARED UNDER THE DIRECT SUPERVISION OF PATRICK BUSSETT, R.A. NY ARCHITECT LICENSE # 105278, ACTING AS AN INDIVIDUAL/SOLE PRACTITIONER REGISTERED ARCHITECT.

AERIAL SITE VIEW



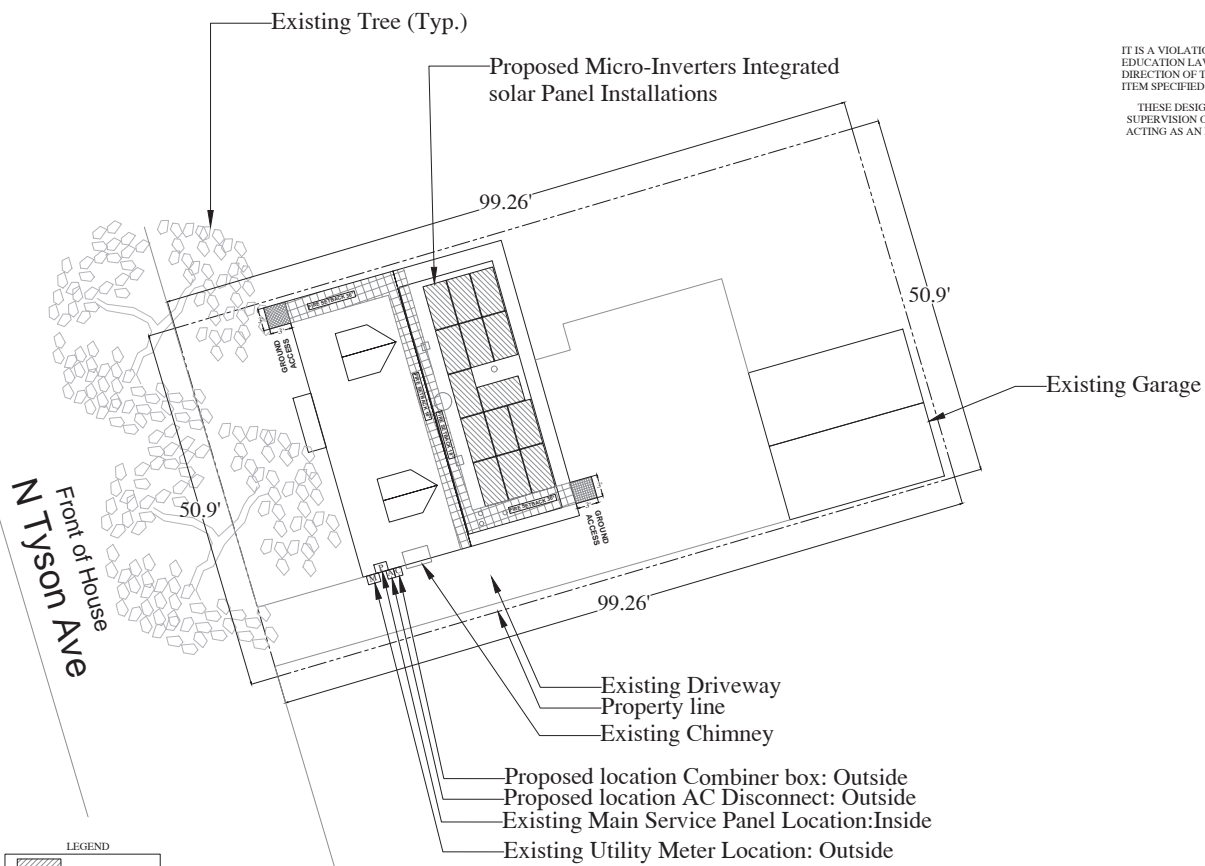
MAP OF BLOCK DISTRICTS



GPS COORDINATES
40.7296058, -73.705203

DRAWING INDEX

1	Zoning Information, Site Plan	Z-000.00
2	Elevations and System Layout	A-000.00
3	Site Plan	Z-001.00
4	Racking and Load Calculations	S-000.00
5	Spreadsheet	S-001.00
6	Labels & Solar Map Placard	G-000.00
7	String Diagram	E-000.00
8	Label Sheet	E-001.00
9	Electrical 3-Line & Labels	E-002.00
10	BOM	G-001.00
11	PHOTO RENDERING	G-002.00
12	PHOTO RENDERING	G-003.00
13	PHOTO RENDERING	G-004.00
14	PHOTO RENDERING	G-005.00
15	PHOTO RENDERING	G-006.00



LEGEND

	Proposed Addition
	Existing Building
	Ventilation
	Obstruction



Patrick Bussett
Venture Solar
67 West St, Brooklyn, NY 11222
License # 105278



P.E./R.A. Stamps/ Signatures

Patrick Bussett
4/15/2023
DOB Stamps/ Signatures

ZONING INFORMATION, SITE PLAN
Z-000.00
Scale: 1/8" = 1'-0"
Page 1 of 15

25 N Tyson Av, Floral Park, NY 11001-1514, USA		
Bernardita Estrella's Residence		
Solar Panels: (14) Hanwha Q-CELL Q-PEAK DUO BLK ML-G10+ 400 Modules		
Inverters: (14) QBPPLUS72-2-US Micro-Inverters		
Solar System DC Size: 5.60KW AC Size: 4.06KW		
Solar Annual Production : 8.605.00 KWH		
Designed By: UNIRAC		
Date: 4/15/2023		
Revision #	Approval Date	Description

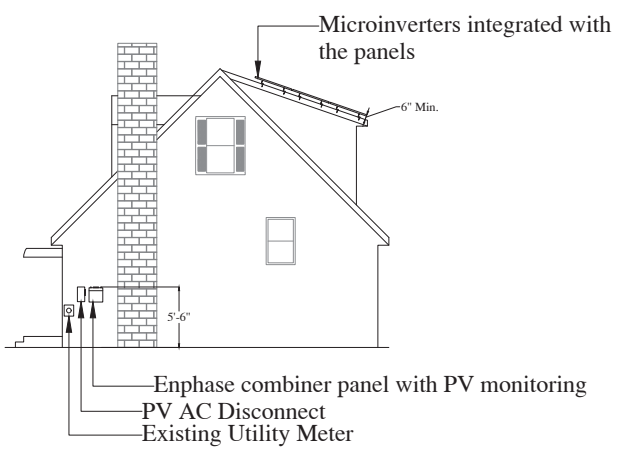
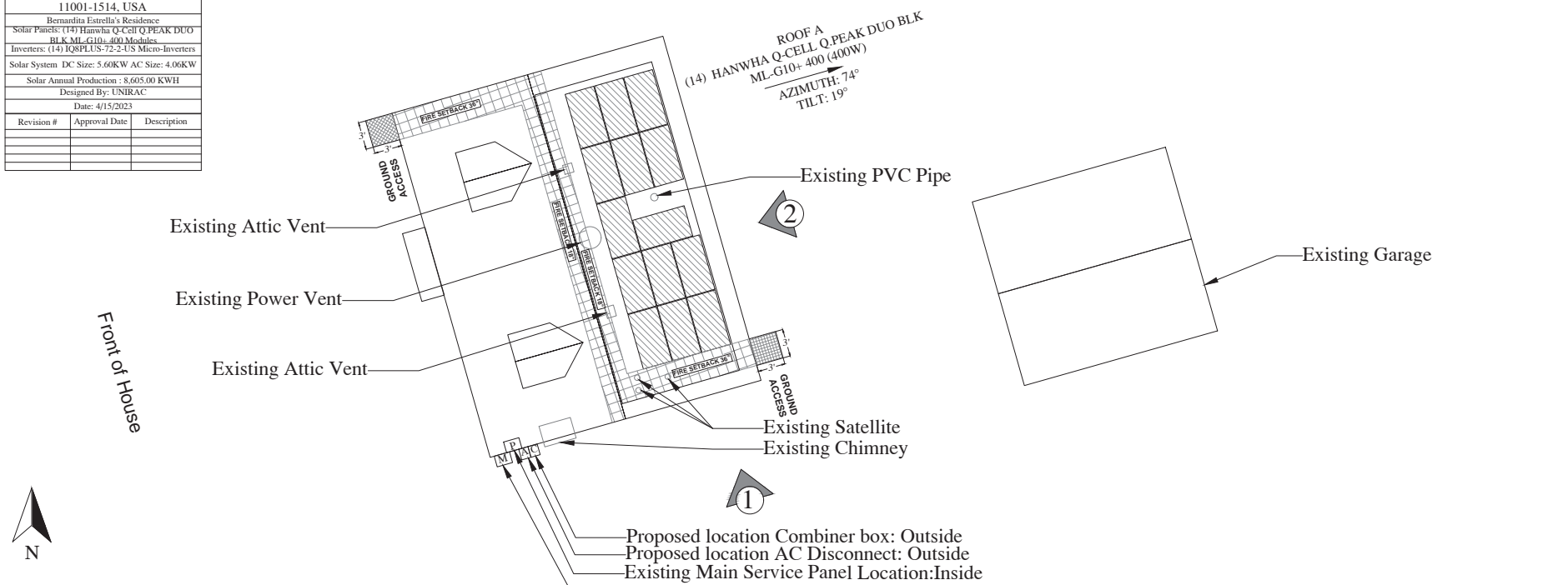
SYSTEM LAYOUT
Scale: 3/16" = 1'-0"

IT IS A VIOLATION OF ARTICLE 145, SECTION 2309(2) OF THE NEW YORK STATE EDUCATION LAW, FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF THE LICENSED PROFESSIONAL ENGINEER OF RECORD, TO ALTER ANY ITEM SPECIFIED OR OTHERWISE INCLUDED ON THIS DESIGN DRAWING IN ANY WAY.

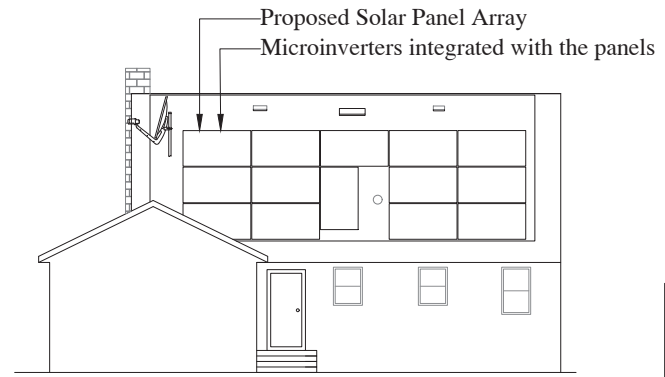
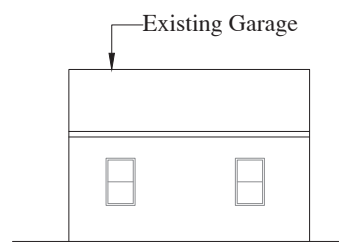
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ELEVATION LEGEND

	Vent Pipes 44", 16", 12" Tall
	Vent Box
	Vent Fan
	Skylight



1 **ELEVATION SOUTH EAST**
(RIGHT SIDE OF HOME)



2 **ELEVATION NORTH EAST**
(BACK SIDE OF HOME)

Patrick Bussett
Venture Solar
67 West St. Brooklyn, NY 11222
License # 105278



P.E./R.A. Stamps/ Signatures
Patrick Bussett
4/15/2023
DOB Stamps/ Signatures



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SITE PLAN
Scale: 1/4" = 1'-0"

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67 West St. Brooklyn, NY 11222
www.venturesolar.com
800.203.4158

25 N Tyson Av, Floral Park, NY
11001-1514, USA

Bernardita Estrella's Residence

Solar Panels: (14) Hanwha Q-CELL Q.PEAK DUO
BLK ML-G10L-400 Modules

Inverters: (14) IQ8PLUS72-2-US Micro-Inverters

Solar System DC Size: 5.60KW AC Size: 4.06KW

Solar Annual Production : 8.605.00 KWH

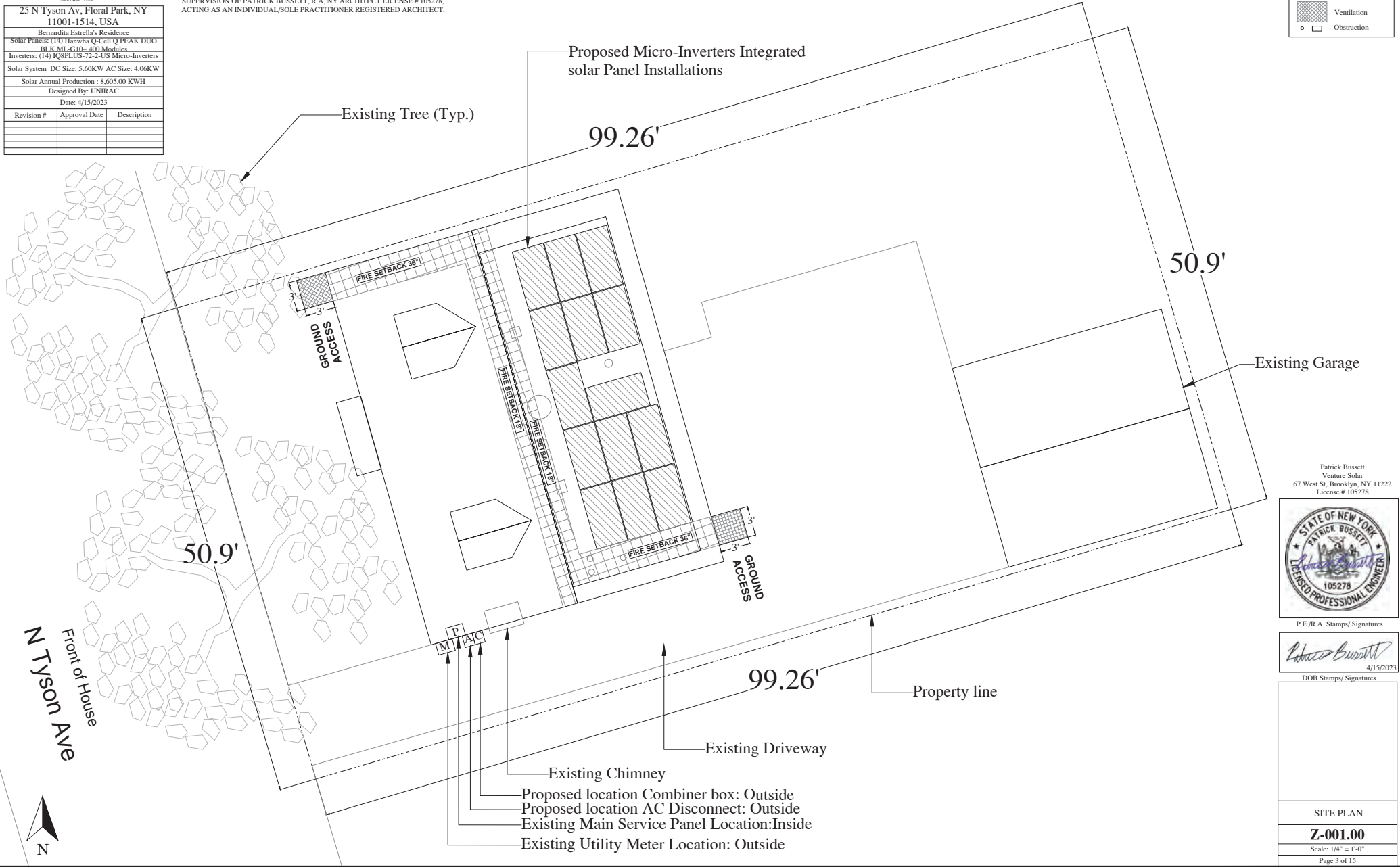
Designed By: UNIRAC

Date: 4/15/2023

Revision #	Approval Date	Description

LEGEND

	Proposed Addition
	Existing Building
	Ventilation
	Obstruction



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License # 105278



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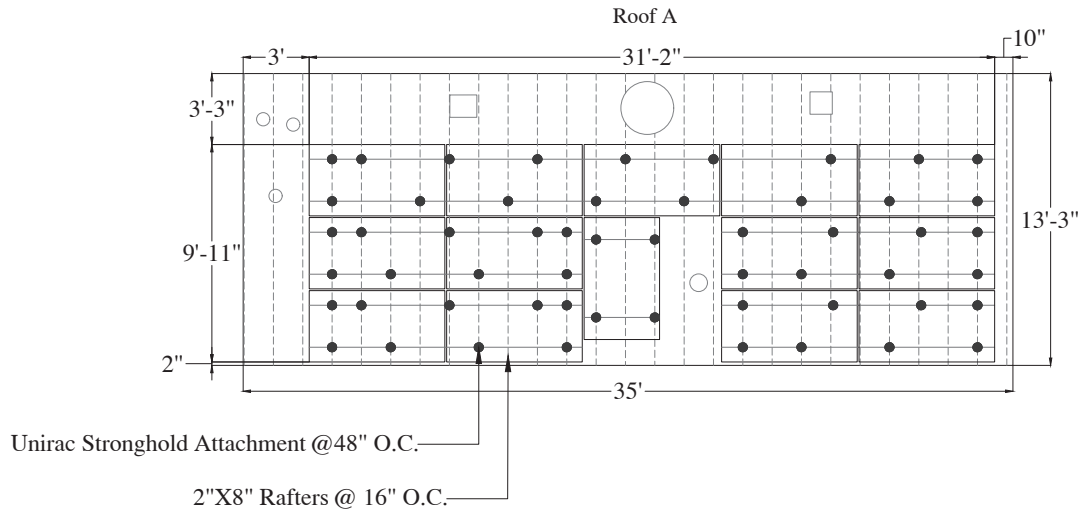
Patrick Bussett
4/15/2023
DOB Stamps/ Signatures

SITE PLAN
Z-001.00
Scale: 1/4" = 1'-0"
Page 3 of 15

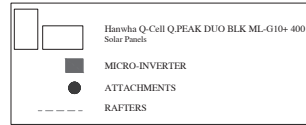
25 N Tyson Av, Floral Park, NY 11001-1514, USA		
Bernardita Estrella's Residence		
Solar Panels: (14) Hanwha Q-CELL Q-PEAK DUO BLK ML-G10-400 Modules		
Inverters: (14) IQ8PLUS-72-2-US Micro-Inverters		
Solar System DC Size: 5.60KW AC Size: 4.06KW		
Solar Annual Production : 8,605.00 KWH		
Designed By: UNIRAC		
Date: 4/15/2023		
Revision #	Approval Date	Description

**UNIRAC STAGGERED STRONGHOLD
ROOF ATTACHMENT**

Scale: 1/4" = 1'-0"



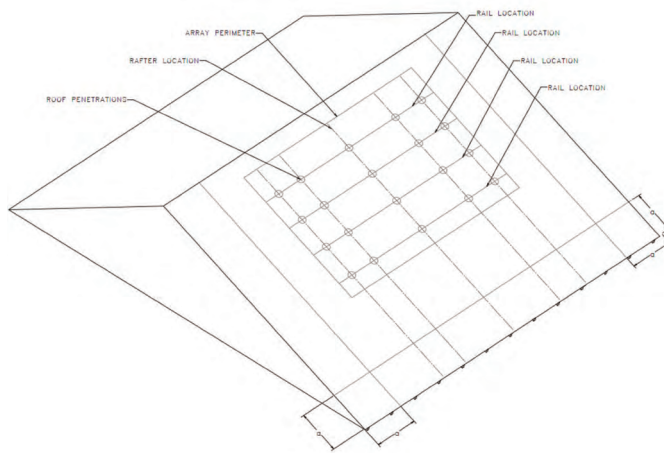
LEGEND



Acceptable Rail Mounting Area
L-Foot 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.

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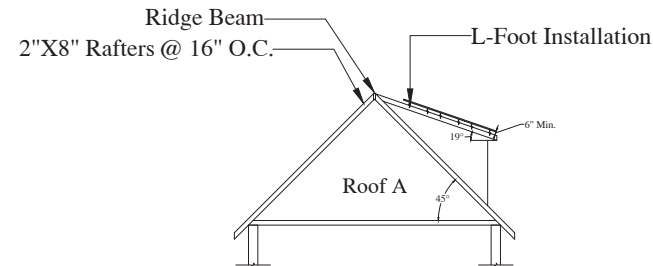
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ROOF STRUCTURAL DETAILS:

Scale: 5/32" = 1'-0"

ROOF TILT: 26°, 19°



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

Patrick Bussett
Venture Solar
67 West St. Brooklyn, NY 11222
License # 105278



P.E./R.A. Stamps/ Signatures

Patrick Bussett
4/15/2023

DOB Stamps/ Signatures



**RACKING AND LOAD
CALCULATIONS**

S-000.00

Scale: SEE SCALE

Page 4 of 15

25 N Tyson Av, Floral Park, NY 11001-1514, USA		
Bernardita Estrella's Residence		
Solar Panels: (14) Hanwha Q-Cell Q-PEAK DUO BLK_ML-G10L_400 Modules		
Inverters: (14) IQ8PLUS-72-2-US Micro-Inverters		
Solar System DC Size: 5.60KW AC Size: 4.06KW		
Solar Annual Production : 8.605.00 KWH		
Designed By: UNIRAC		
Date: 4/15/2023		
Revision #	Approval Date	Description

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Labels comply with NEC 110.21(B) and ANSI Z535.4

COMBINER PANEL
AC Output Current: 16.94A
Nominal Operating AC Voltage: 240V

COMBINER PANEL

WARNING
ELECTRIC SHOCK HAZARD. THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED

JUNCTION BOX

AC DISCONNECT
AC Output Current: 16.94A
Nominal Operating AC Voltage: 240V

A/C DISCONNECT

WARNING
INVERTER OUTPUT CONNECTION; DO NOT RELOCATE THIS OVERCURRENT DEVICE

COMBINER PANEL

CAUTION
TWO POWER SOURCES INSIDE UTILITY AND SOLAR PV

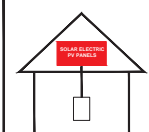
MAIN DISTRIBUTION PANEL

WARNING: PHOTOVOLTAIC POWER SOURCE

JUNCTION BOX
CONDUIT EVERY 10 FT

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

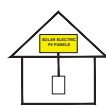
TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN CONDUCTORS OUTSIDE THE ARRAY. CONDUCTORS WITHIN THE ARRAY REMAIN ENERGIZED IN SUNLIGHT.



RAPID SHUTDOWN SYSTEM

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY.



AT RAPID SHUTDOWN SYSTEM

Patrick Bussett
Venture Solar
67 West St. Brooklyn, NY 11222
License # 105278



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Patrick Bussett
4/15/2023

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LABELS

G-000.00

Scale: NTS

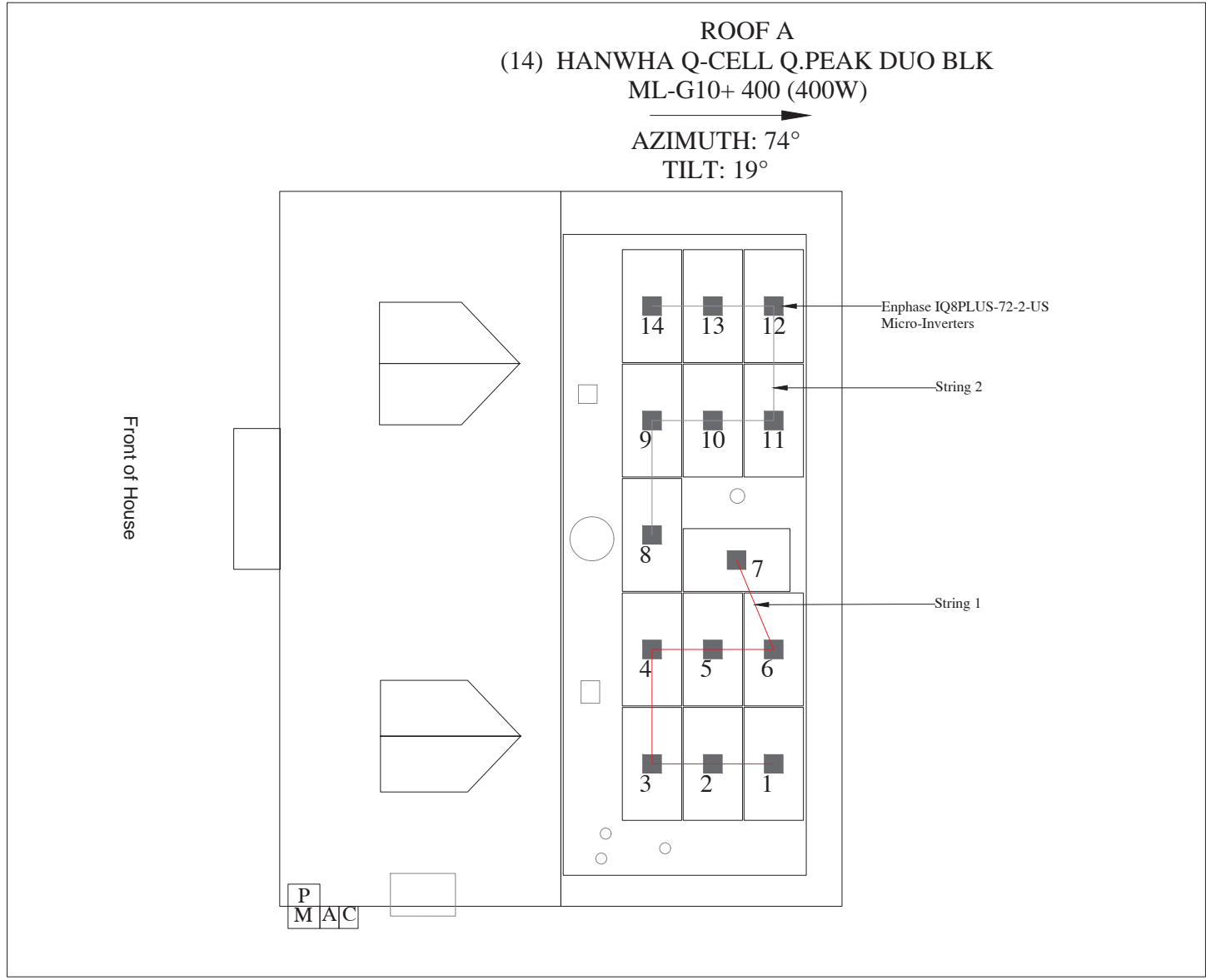
Page 6 of 15

25 N Tyson Av, Floral Park, NY 11001-1514, USA		
Bernardita Estrella's Residence		
Solar Panels: (14) Hanwha Q-CELL Q.PEAK DUO BLK ML-G10+ 400 Modules		
Inverters: (14) IQ8PLUS-72-2-US Micro-Inverters		
Solar System DC Size: 5.60KW AC Size: 4.06KW		
Solar Annual Production : 8.605.00 KWH		
Designed By: UNIRAC		
Date: 4/15/2023		
Revision #	Approval Date	Description

String Diagram

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Venture Solar
67 West St. Brooklyn, NY 11222
License # 105278



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Patrick Bussett
4/15/2023

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String Diagram

E-000.00

Scale: NTS

Page 7 of 15

25 N Tyson Av, Floral Park, NY 11001-1514, USA
Bernardina Estrella's Residence
Solar Panels: (14) Hanwha Q-CELL Q-PEAK DUO BLK ML-G10L-400 Modules
Inverters: (14) IQ8PLUS-72-2-US Micro-Inverters
Solar System DC Size: 5.60KW AC Size: 4.06KW
Solar Annual Production : 8,605.00 KWH
Designed By: UNIRAC
Date: 4/15/2023

Revision #	Approval Date	Description

STRING CALCULATIONS

(07) x 1.21A x 1.25 = 10.59A <20A -->OK
(07) x 1.21A x 1.25 = 10.59A <20A -->OK

FUSE SIZE CALCULATIONS

(14) x 1.21A x 1.25 = 21.18A =< 60A fuse size

MODULE SPEC-SHEET

ELECTRICAL CHARACTERISTICS

POWER CLASS	385	390	395	400	405
Power at STC	385	390	395	400	405
Open-Circuit Voltage	37.99	37.97	37.92	37.84	37.77
Open-Circuit Voltage*	38.09	38.05	37.97	37.87	37.79
Current at STC	10.59	10.65	10.71	10.77	10.83
Voltage at MPPT	30.39	30.62	30.88	31.13	31.36
Efficiency	18.88	18.94	19.01	19.04	19.07

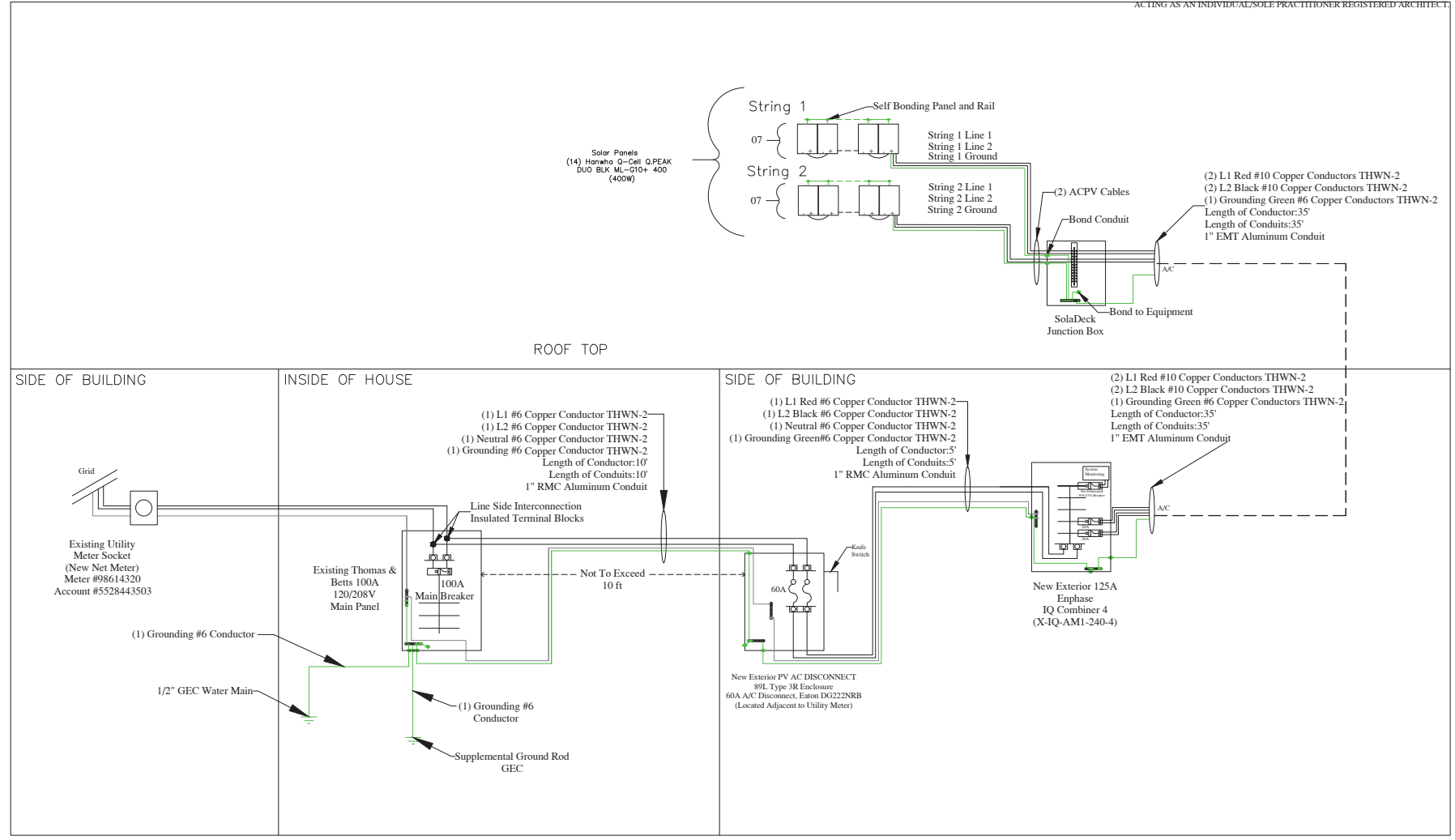
*Maximum Power Point Voltage (V_{mp}) at STC (1000W/m², 25°C, AM 1.5) according to IEC 60904-2. *Open-Circuit Voltage (V_{oc}) at STC (1000W/m², 25°C, AM 1.5) according to IEC 60904-2.

CONDUCTOR SIZING CALCULATION

CIRCUIT DESCRIPTION	CURRENT	I _{max} (690,(8A))	I _{cont} (690,(8B)) ^{(2)(a)} calc	SPECIFIED CONDUCTOR	AMPAICITY @ 90°C	AMBIENT TEMPERATURE °C	CURRENT CARRYING COND.	COND. OF USE APPLIED (690,(8B)) ^{(2)(b)} calc
PV SOURCE STRING 1	7.00	8.47	8.47 x 1.25 = 10.59	#10 THWN-2	40	26-30	1-3	40A x 0.96 (amb. temp) x 1.0 (raceway fill) = 38.40A
PV SOURCE STRING 2	7.00	8.47	8.47 x 1.25 = 10.59	#10 THWN-2	40	26-30	1-3	40A x 0.96 (amb. temp) x 1.0 (raceway fill) = 38.40A
COMBINER BOX OUTPUT	14.00	16.94	16.94 x 1.25 = 21.18	#6 THWN-2	75	26-30	1-3	75A x 0.96 (amb. temp) x 1.0 (raceway fill) = 72.00A
AC DISCONNECT OUTPUT	14.00	16.94	16.94 x 1.25 = 21.18	#6 THWN-2	75	26-30	1-3	75A x 0.96 (amb. temp) x 1.0 (raceway fill) = 72.00A

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DOB Stamps/Signatures

ELECTRICAL 3-LINE & LABELS

E-002.00

Scale: NTS

Page 9 of 15

25 N Tyson Av, Floral Park, NY 11001-1514, USA		
Bernardita Estrella's Residence		
Solar Panels: (14) Hanwha Q CELLS Q PEAK DUO BI K ML G10: 400 Modules		
Inverters: (14) IQ8PLUS-72-2-US Micro-Inverters		
Solar System DC Size: 5.60KW AC Size: 4.06KW		
Solar Annual Production : 8,605.00 KWH		
Designed By: UNIRAC		
Date: 4/15/2023		
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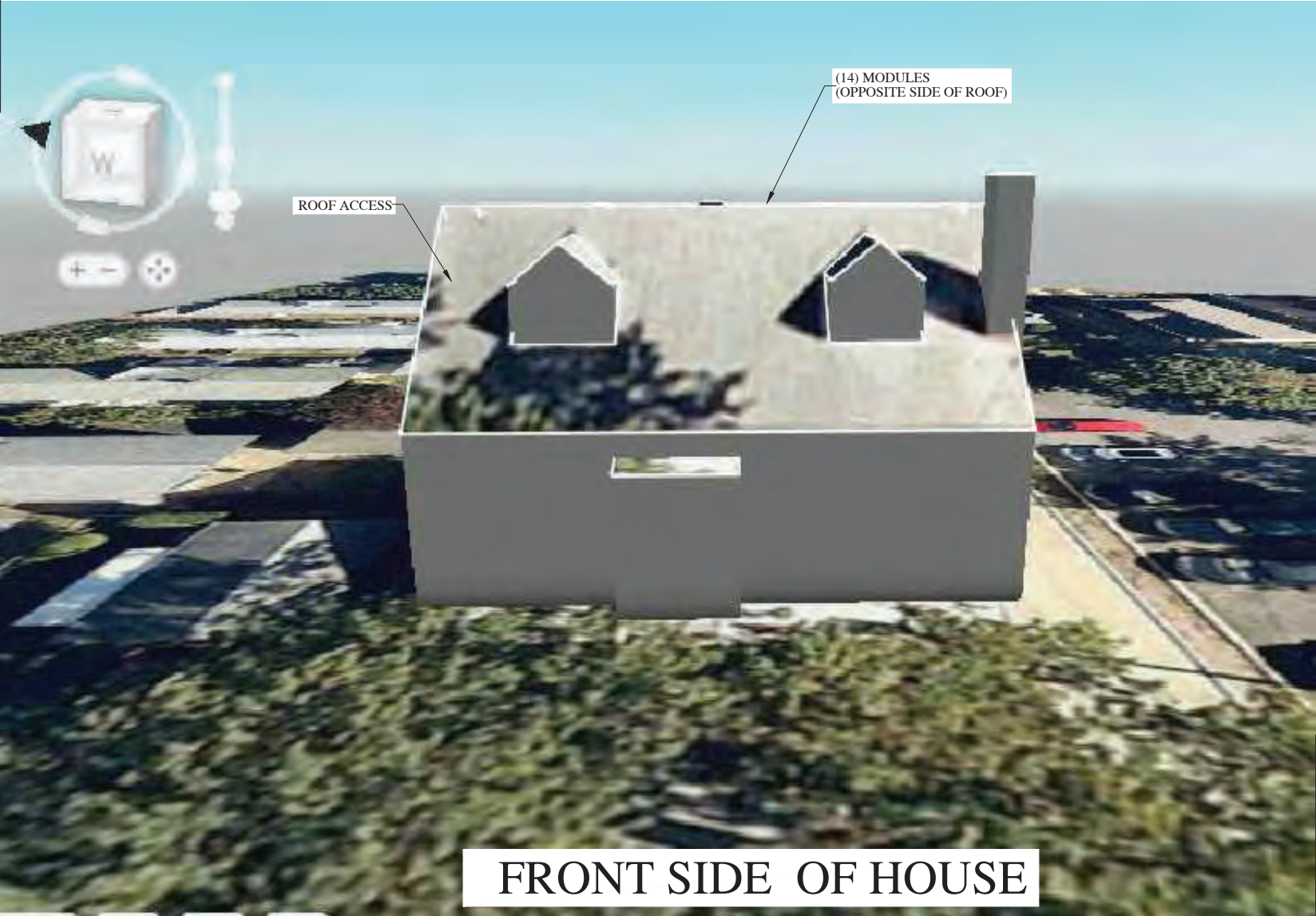


BACK SIDE OF HOUSE

DOB Stamps/Signatures

BOM
G-002.00
Scale: NIS
Page 11 of 15

25 N Tyson Av, Floral Park, NY 11001-1514, USA		
Bernardita Estrella's Residence		
Solar Panels: (14) Hanwha Q CELLS Q PEAK DUO BI K ML G10: 400 Modules		
Inverters: (14) IQ8PLUS-72-2-US Micro-Inverters		
Solar System DC Size: 5.60KW AC Size: 4.06KW		
Solar Annual Production : 8,605.00 KWH		
Designed By: UNIRAC		
Date: 4/15/2023		
Revision #	Approval Date	Description



FRONT SIDE OF HOUSE

DOB Stamps/Signatures

BOM
G-003.00
Scale: NIS
Page 12 of 15

25 N Tyson Av, Floral Park, NY 11001-1514, USA		
Bernardita Estrella's Residence		
Solar Panels: 144 Hanwha Q CELLS Q PEAK DUO BI K ML G10: 400 Modules		
Inverters: (14) IQ8PLUS-72-2-US Micro-Inverters		
Solar System DC Size: 5.60KW AC Size: 4.06KW		
Solar Annual Production : 8,605.00 KWH		
Designed By: UNIRAC		
Date: 4/15/2023		
Revision #	Approval Date	Description



LEFT SIDE OF HOUSE

DOB Stamps/Signatures
BOM
G-004.00
Scale: NIS
Page 13 of 15

25 N Tyson Av, Floral Park, NY 11001-1514, USA		
Bernardita Estrella's Residence		
Solar Panels: (14) Hanwha Q CELLS Q PEAK DUO BI K ML G10 400 Modules		
Inverters: (14) IQ8PLUS-72-2-US Micro-Inverters		
Solar System DC Size: 5.60KW AC Size: 4.06KW		
Solar Annual Production : 8,605.00 KWH		
Designed By: UNIRAC		
Date: 4/15/2023		
Revision #	Approval Date	Description



RIGHT SIDE OF HOUSE

DOB Stamps/Signatures

BOM
G-005.00
Scale: NTS
Page 14 of 15

25 N Tyson Av, Floral Park, NY 11001-1514, USA		
Bernardita Estrella's Residence		
Solar Panels: (14) Hanwha Q CELLS Q PEAK DUO BI K ML G10: 400 Modules		
Inverters: (14) IQ8PLUS-72-2-US Micro-Inverters		
Solar System DC Size: 5.60KW AC Size: 4.06KW		
Solar Annual Production : 8,605.00 KWH		
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Date: 4/15/2023		
Revision #	Approval Date	Description



TOP OF HOUSE

DOB Stamps/Signatures

BOM
G-006.00
Scale: NIS
Page 15 of 15

Q.PEAK DUO BLK ML-G10+ 385-405

ENDURING HIGH
PERFORMANCE



Quality
Controlled PV

www.tuv.com
ID 1111232615



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 Technology¹, 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 warranty².



6 BUSBAR
CELL TECHNOLOGY

12 BUSBAR
CELL TECHNOLOGY

¹ APT test conditions according to IEC/TS 62804-1:2015, method A (-1500 V, 96h)
² See data sheet on rear for further information.

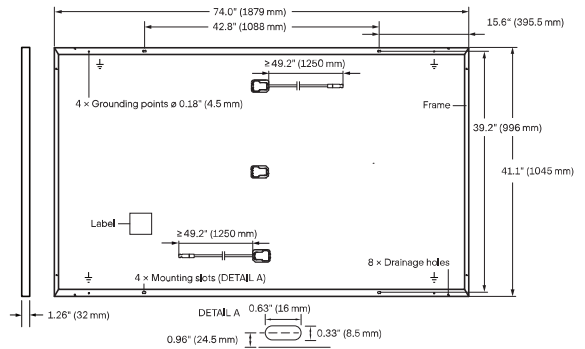
THE IDEAL SOLUTION FOR:



Rooftop arrays on
residential buildings

MECHANICAL SPECIFICATION

Format	74.0in × 41.1in × 1.26in (including frame) (1879mm × 1045mm × 32mm)
Weight	48.5lbs (22.0kg)
Front Cover	0.13in (3.2mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodized aluminum
Cell	6 × 22 monocrystalline Q.ANTUM solar half cells
Junction Box	2.09-3.98in × 1.26-2.36in × 0.59-0.71in (53-101mm × 32-60mm × 15-18mm), IP67, with bypass diodes
Cable	4mm ² Solar cable; (+) ≥49.2in (1250mm), (-) ≥49.2in (1250mm)
Connector	Stäubli MC4; IP68

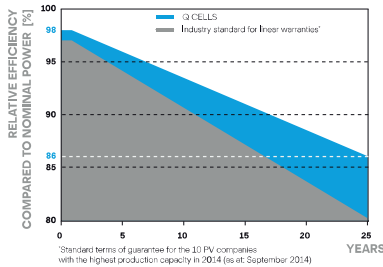


ELECTRICAL CHARACTERISTICS

POWER CLASS		385	390	395	400	405	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5W / -0W)							
Minimum	Power at MPP ¹	P _{MPP} [W]	385	390	395	400	405
	Short Circuit Current ¹	I _{SC} [A]	11.04	11.07	11.10	11.14	11.17
	Open Circuit Voltage ¹	V _{OC} [V]	45.19	45.23	45.27	45.30	45.34
	Current at MPP	I _{MPP} [A]	10.59	10.65	10.71	10.77	10.83
	Voltage at MPP	V _{MPP} [V]	36.36	36.62	36.88	37.13	37.39
	Efficiency ¹	η [%]	≥19.6	≥19.9	≥20.1	≥20.4	≥20.6
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ²							
Minimum	Power at MPP	P _{MPP} [W]	288.8	292.6	296.3	300.1	303.8
	Short Circuit Current	I _{SC} [A]	8.90	8.92	8.95	8.97	9.00
	Open Circuit Voltage	V _{OC} [V]	42.62	42.65	42.69	42.72	42.76
	Current at MPP	I _{MPP} [A]	8.35	8.41	8.46	8.51	8.57
	Voltage at MPP	V _{MPP} [V]	34.59	34.81	35.03	35.25	35.46

¹Measurement tolerances P_{MPP} ±3%; I_{SC}; V_{OC} ±5% at STC: 1000 W/m², 25 ±2°C, AM 1.5 according to IEC 60904-3 • *800 W/m², NMOT, spectrum AM 1.5

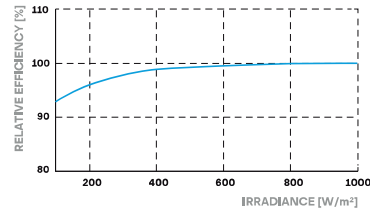
Q CELLS PERFORMANCE WARRANTY



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 86% 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 organisation of your respective country.

PERFORMANCE AT LOW IRRADIANCE



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

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I _{SC}	α [%/K]	+0.04	Temperature Coefficient of V _{OC}	β [%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ [%/K]	-0.34	Nominal Module Operating Temperature	NMOT [°F]	109 ± 5.4 (43 ± 3°C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V _{sys}	[V]	1000 (IEC)/1000 (UL)	PV module classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI / UL 61730	TYPE 2
Max. Design Load, Push / Pull ³	[lbs/ft ²]	75 (3600 Pa) / 55 (2660 Pa)	Permitted Module Temperature on Continuous Duty	-40°F up to +185°F (-40°C up to +85°C)
Max. Test Load, Push / Pull ³	[lbs/ft ²]	113 (5400 Pa) / 84 (4000 Pa)		

³See Installation Manual

QUALIFICATIONS AND CERTIFICATES

UL 61730, CE-compliant,
Quality Controlled PV - TÜV Rheinland,
IEC 61215:2016, IEC 61730:2016,
U.S. Patent No. 9,893,215 (solar cells).



PACKAGING INFORMATION

Horizontal packaging	76.4in 1940mm	43.3in 1100mm	48.0in 1220mm	1656lbs 751kg	24 pallets	24 pallets	32 modules

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.

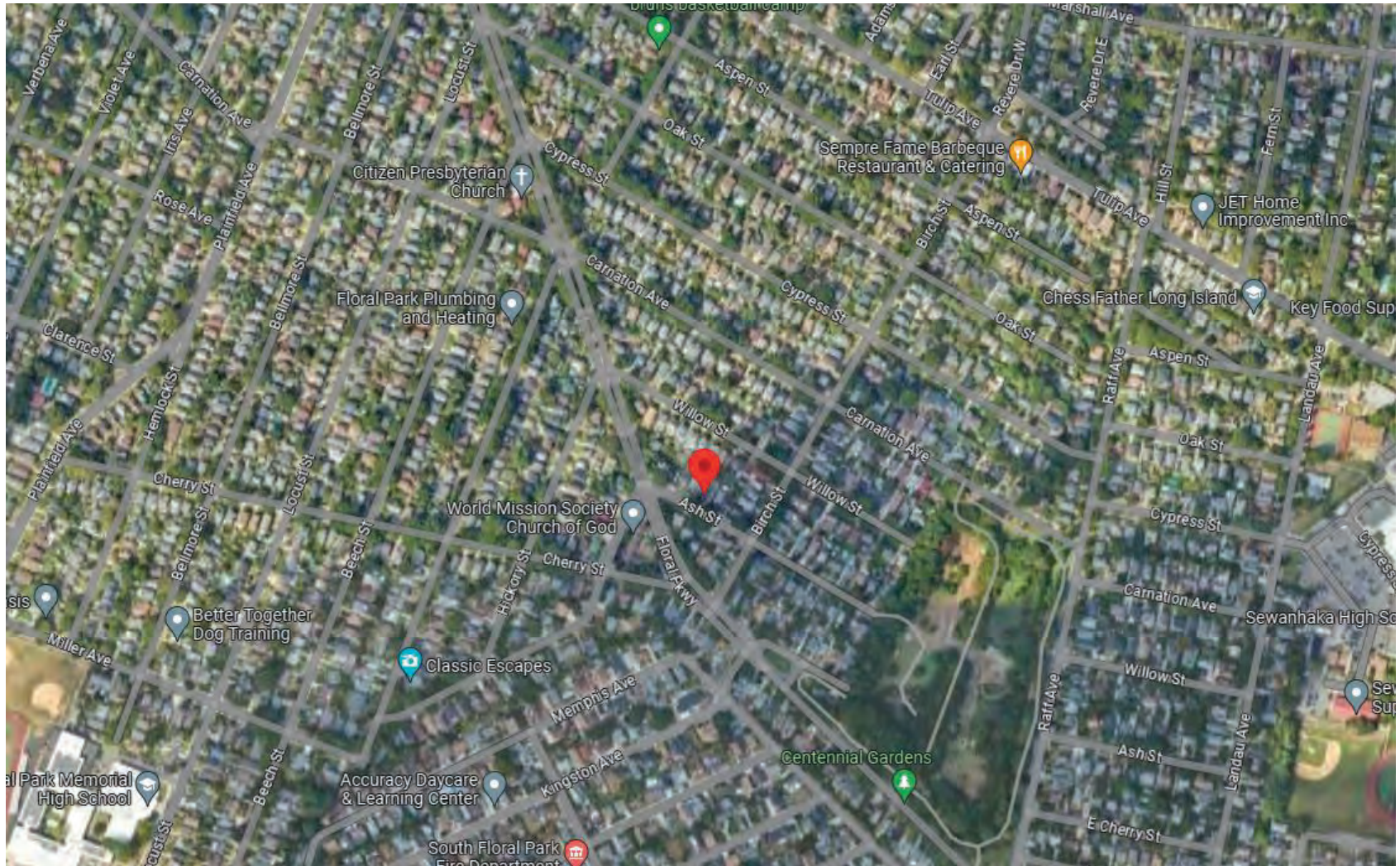
Hanwha Q CELLS America Inc.

400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL inquiry@us.q-cells.com | WEB www.q-cells.us

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
5	8:20 p.m.	11	Ash Street	Solar	Fatima Hoque	Sunrun



11 Ash Street (Aerial View)





11







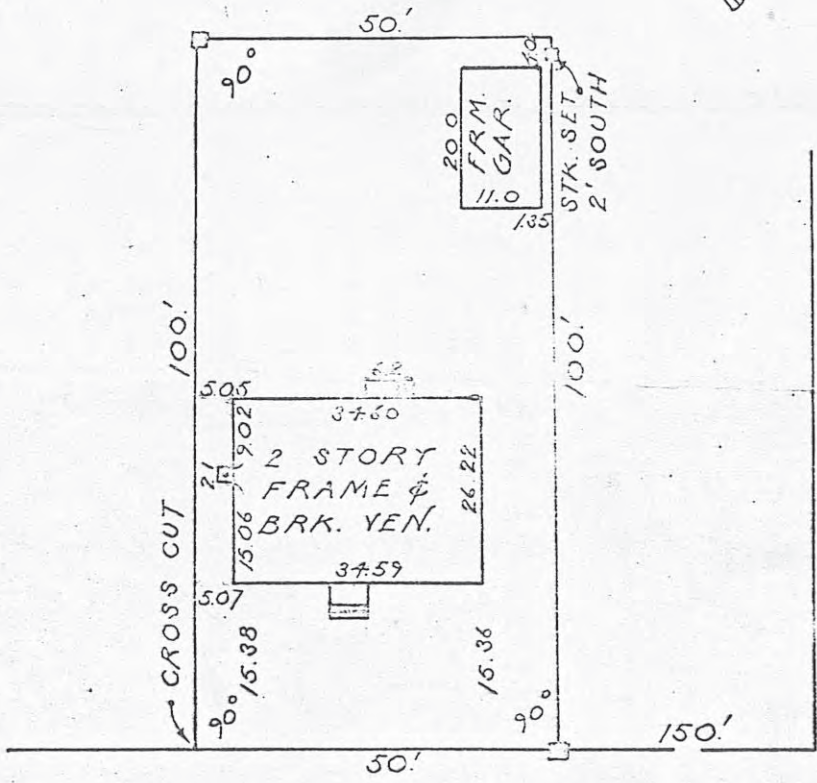
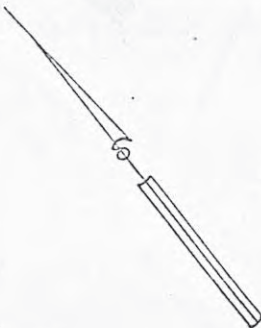
409427

N132801

1-2231-4/2g

10-1-64

DECEASED
DECEASED
FIDELITY & SECURITY



ASH STREET
PINE ST.

BIRCH STREET

Owner _____
Lot 35, 36 & 10' OF 37
Block 29

PAUL ROSA

PROPERTY AT FIDELITY PARK

GUY H. WICKEDLE

172

SCOPE OF WORK

- SYSTEM SIZE: 5180W DC, 3800W AC
- MODULES: (14) VIKRAM SOLAR: VSM DHT.60.370.05
- INVERTERS: (1) SOLAREEDGE TECHNOLOGIES: SE3800H-USMN
- RACKING: RL UNIVERSAL, SPEEDSEAL TRACK ON COMP, SEE DETAIL SNR-DC-00436
- ANIMAL DETERRENT SYSTEM TO BE INSTALLED AROUND ALL ARRAYS.

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH 2020 NEW YORK STATE RESIDENTIAL CODE WITH 2018 IRC/IBC/IEBC, MUNICIPAL CODE, AND ALL MANUFACTURERS' LISTINGS AND INSTALLATION INSTRUCTIONS.
- PHOTOVOLTAIC SYSTEM WILL COMPLY WITH NEC 2017.
- ELECTRICAL SYSTEM GROUNDING WILL COMPLY WITH NEC 2017.
- PHOTOVOLTAIC SYSTEM IS UNGROUNDED. NO CONDUCTORS ARE SOLIDLY GROUNDED IN THE INVERTER. SYSTEM COMPLIES WITH 690.35.
- MODULES CONFORM TO AND ARE LISTED UNDER UL 1703.
- INVERTER CONFORMS TO AND IS LISTED UNDER UL 1741.
- RACKING CONFORMS TO AND IS LISTED UNDER UL 2703.
- SNAPRACK RACKING SYSTEMS, IN COMBINATION WITH TYPE I, OR TYPE II MODULES, ARE CLASS A FIRE RATED.
- RAPID SHUTDOWN REQUIREMENTS MET WHEN INVERTERS AND ALL CONDUCTORS ARE WITHIN ARRAY BOUNDARIES PER NEC 690.12(1).
- CONSTRUCTION FOREMAN TO PLACE CONDUIT RUN PER 690.31(G).
- ARRAY DC CONDUCTORS ARE SIZED FOR DERATED CURRENT.
- 12.71 AMPS MODULE SHORT CIRCUIT CURRENT.
- 19.85 AMPS DERATED SHORT CIRCUIT CURRENT [690.8 (A) & 690.8 (B)].

LEGEND AND ABBREVIATIONS


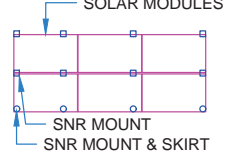




















 SERVICE ENTRANCE	
 MAIN PANEL	
 SUB-PANEL	
 PV LOAD CENTER	 CHIMNEY
 SUNRUN METER	 ATTIC VENT
 DEDICATED PV METER	 FLUSH ATTIC VENT
 INVERTER(S)	 PVC PIPE VENT
 AC DISCONNECT(S)	 METAL PIPE VENT
 DC DISCONNECT(S)	 T-VENT
 IQ COMBINER BOX	 SATELLITE DISH
 INTERIOR EQUIPMENT	 FIRE SETBACKS
 SHOWN AS DASHED	 HARDSCAPE
	— PL — PROPERTY LINE
	SCALE: NTS

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PAGE #	DESCRIPTION
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PV-2.0	SITE PLAN
PV-2.1	PLOT PLAN
PV-2.2	ELEVATION VIEW
PV-3.0	LAYOUT
PV-3.1	MOUNTING DETAIL
PV-4.0	ELECTRICAL
PV-5.0	SIGNAGE



04/19/2023

SUNRUN

00825-ME

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MD HOQUE
11 ASH ST, FLORAL PARK, NY,
11001

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APN: 2007-32-232-00-0136-0

PROJECT NUMBER:
216R-011HOQU

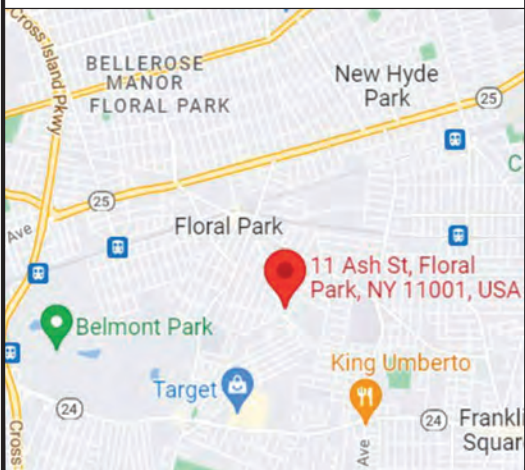
DESIGNER: (415) 580-6920 ex3
LISA THURSTON

SHEET
COVER SHEET

REV: A1 4/19/2023

PAGE PV-1.0

VICINITY MAP



A	AMPERE
AC	ALTERNATING CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AZIM	AZIMUTH
COMP	COMPOSITION
DC	DIRECT CURRENT
(E)	EXISTING
ESS	ENERGY STORAGE SYSTEM
EXT	EXTERIOR
INT	INTERIOR
MAG	MAGNETIC
MSP	MAIN SERVICE PANEL
(N)	NEW
NTS	NOT TO SCALE
OC	ON CENTER
PRE-FAB	PRE-FABRICATED
PSF	POUNDS PER SQUARE FOOT
PV	PHOTOVOLTAIC
RSD	RAPID SHUTDOWN DEVICE
TL	TRANSFORMERLESS
TYP	TYPICAL
V	VOLTS
W	WATTS

REV	NAME	DATE	COMMENTS

SITE PLAN - SCALE = 1/16" = 1'-0"



	ARRAY PITCH	TRUE AZIM	MAG AZIM	PV AREA (SQFT)
AR-01	14°	30°	42°	279.5



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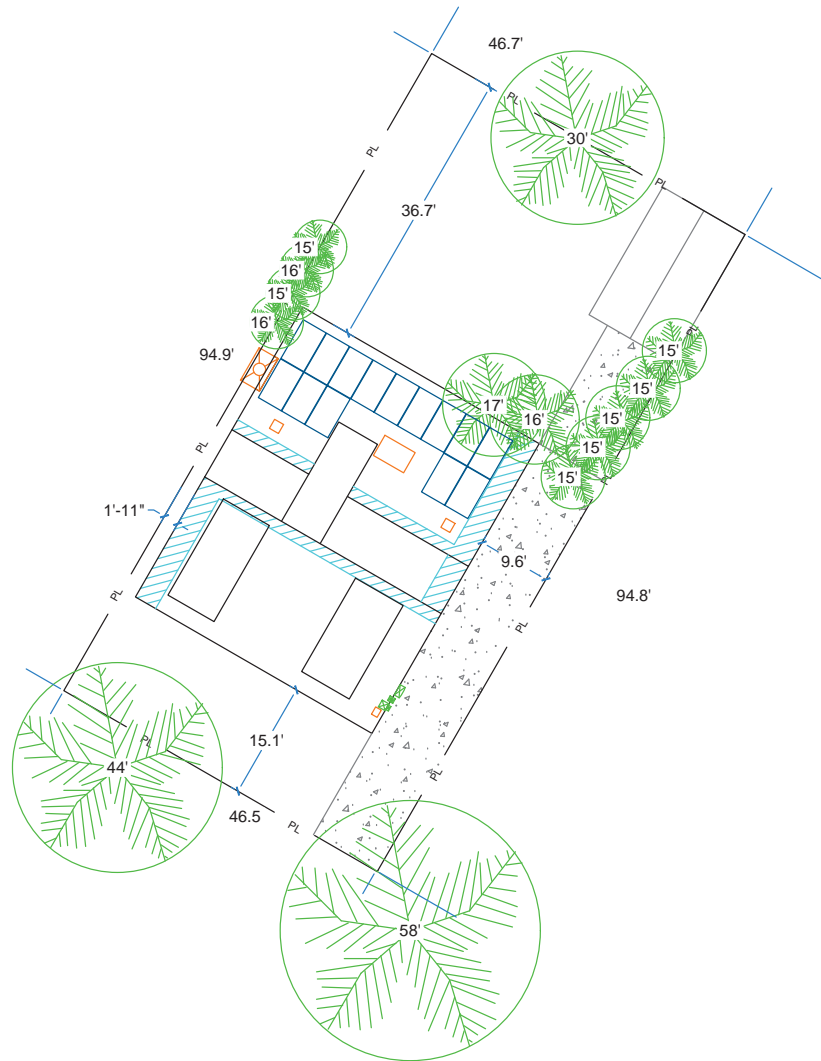
DESIGNER: (415) 580-6920 ex3
 LISA THURSTON

SHEET
SITE PLAN

REV: A1 4/19/2023

PAGE
 PV-2.0

SITE PLAN - SCALE = 1/16" = 1'-0"



	ARRAY PITCH	TRUE AZIM	MAG AZIM	PV AREA (SQFT)
AR-01	14°	30°	42°	279.5

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PROJECT NUMBER:
 216R-011HOQU

DESIGNER: (415) 580-6920 ex3
 LISA THURSTON

SHEET
 PLOT PLAN

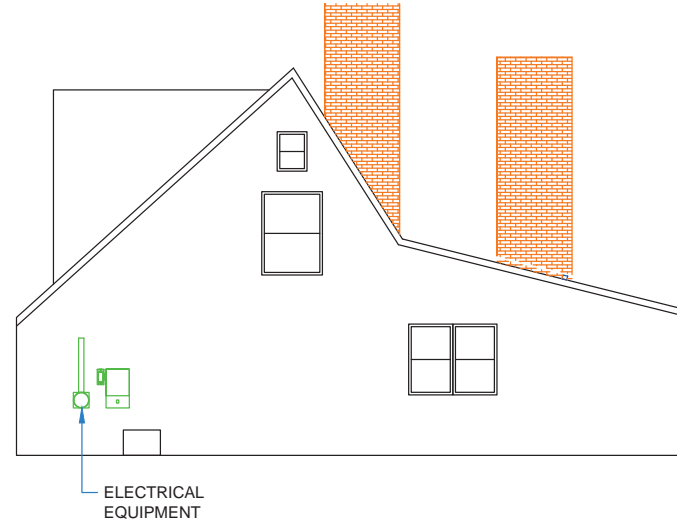
REV: A1 4/19/2023

PAGE
 PV-2.1

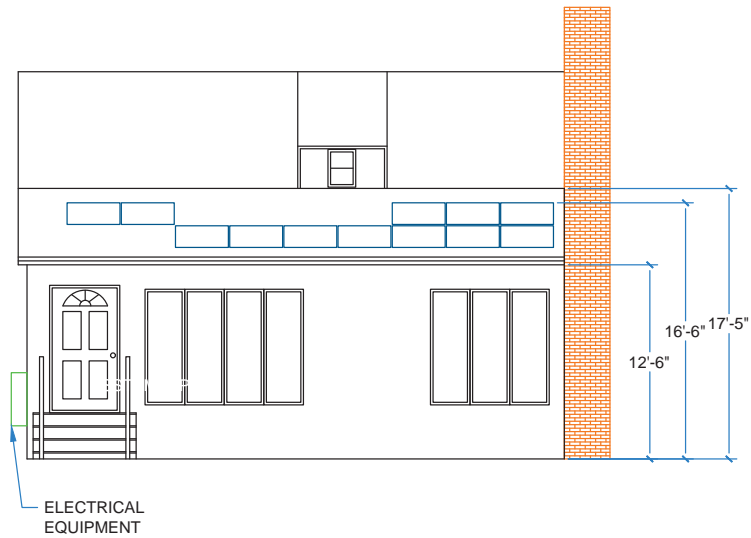
D1 - FRONT ELEVATION - SCALE: 1/8" = 1'-0"



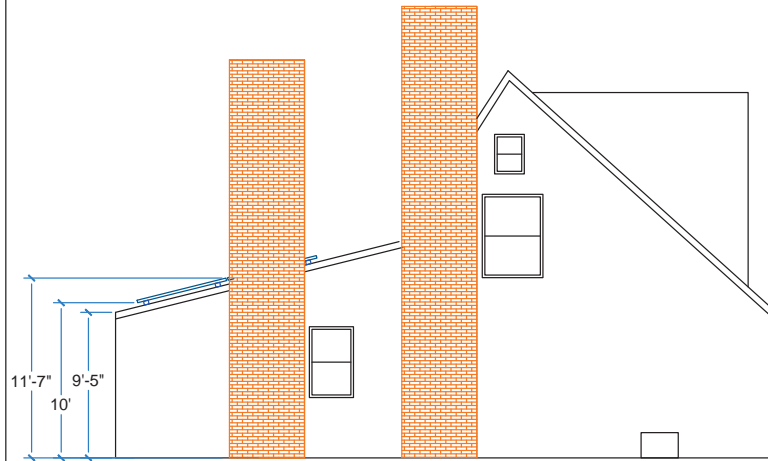
D2 - SIDE ELEVATION - SCALE: 1/8" = 1'-0"



D3 - BACK ELEVATION - SCALE: 1/8" = 1'-0"



D4 - SIDE ELEVATION - SCALE: 1/8" = 1'-0"



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216R-011HOQU

DESIGNER: (415) 580-6920 ex3
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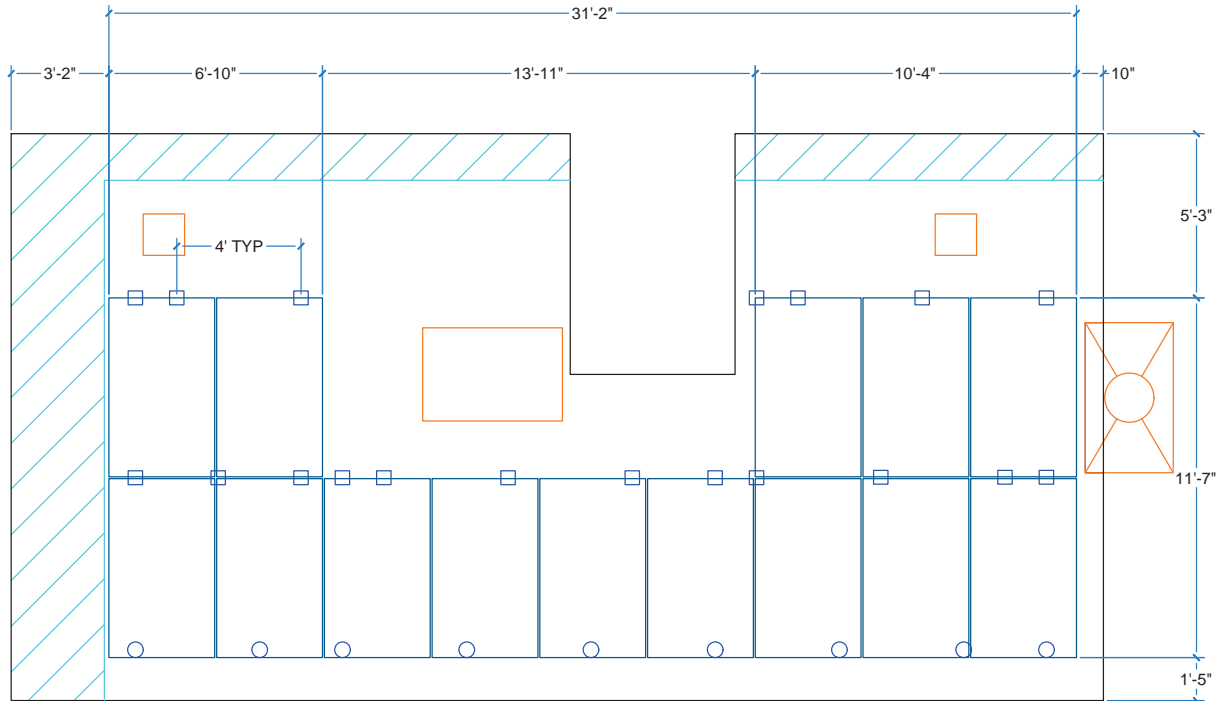
SHEET
ELEVATION VIEW

REV: A1 4/19/2023

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ROOF INFO			FRAMING INFO			ATTACHMENT INFORMATION					
Name	Type	Height	Type	Max Span	OC Spacing	Detail	Max Landscape OC Spacing	Max Landscape Overhang	Max Portrait OC Spacing	Max Portrait Overhang	Configuration
AR-01	COMP SHINGLE - RLU	1-Story	2X8 RAFTERS	14' - 2"	16"	RL UNIVERSAL, SPEEDSEAL TRACK ON COMP, SEE DETAIL SNR-DC-00436	5' - 4"	2' - 1"	NA	NA	STAGGERED

D1 - AR-01 - SCALE: 1/4" = 1'-0"
 AZIM: 30°
 PITCH: 14°



DESIGN CRITERIA

MAX DISTRIBUTED LOAD: 3 PSF
SNOW LOAD: 25 PSF
WIND SPEED: 120 MPH 3-SEC GUST.
S.S.LAG SCREWS: 5/16": 2.5" MIN EMBEDMENT
STRUCTURAL NOTES:

- INSTALLERS SHALL NOTIFY ENGINEER OF ANY POTENTIAL STRUCTURAL ISSUES OBSERVED PRIOR TO PROCEEDING W/ INSTALLATION.
- IF ARRAY (EXCLUDING SKIRT) IS WITHIN 12" BOUNDARY REGION OF ANY ROOF PLANE EDGES (EXCEPT VALLEYS), THEN ATTACHMENTS NEED TO BE ADDED AND OVERHANG REDUCED WITHIN THE 12" BOUNDARY REGION ONLY AS FOLLOWS:
 - ALLOWABLE ATTACHMENT SPACING INDICATED ON PLANS TO BE REDUCED BY 50%
 - ALLOWABLE OVERHANG INDICATED ON PLANS TO BE 1/5TH OF ALLOWABLE ATTACHMENT SPACING INDICATED ON PLANS

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PROJECT NUMBER:
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DESIGNER: (415) 580-6920 ex3
 LISA THURSTON

SHEET
 LAYOUT

REV: A1 4/19/2023

PAGE
 PV-3.0

INSTALLERS SHALL NOTIFY ENGINEER OF ANY POTENTIAL STRUCTURAL ISSUES OBSERVED PRIOR TO PROCEEDING W/ INSTALLATION.

* IF ARRAY (EXCLUDING SKIRT) IS WITHIN 12" BOUNDARY REGION OF ANY ROOF PLANE EDGES (EXCEPT VALLEYS), THEN ATTACHMENTS NEED TO BE ADDED AND OVERHANG REDUCED WITHIN THE 12" BOUNDARY REGION ONLY AS FOLLOWS:
 ** ALLOWABLE ATTACHMENT SPACING INDICATED ON PLANS TO BE REDUCED BY 50%.
 ** ALLOWABLE OVERHANG INDICATED ON PLANS TO BE 1/5TH OF ALLOWABLE ATTACHMENT SPACING INDICATED ON PLANS.



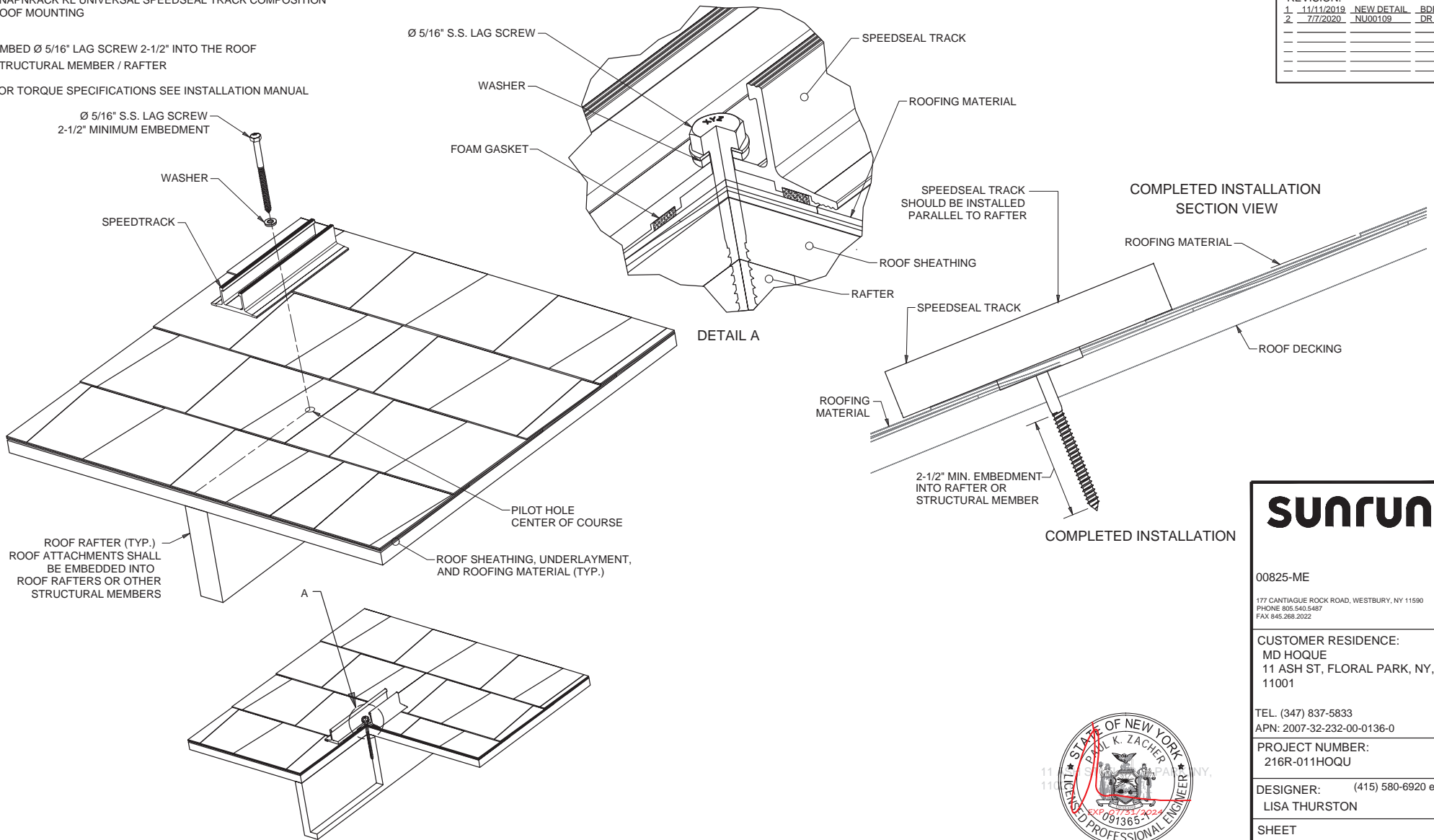
SEE SITE PLAN FOR NORTH ARROW

**SNAPRACK RL UNIVERSAL SPEEDSEAL TRACK COMPOSITION
ROOF MOUNTING**

EMBED \varnothing 5/16" LAG SCREW 2-1/2" INTO THE ROOF
STRUCTURAL MEMBER / RAFTER

FOR TORQUE SPECIFICATIONS SEE INSTALLATION MANUAL

\varnothing 5/16" S.S. LAG SCREW
2-1/2" MINIMUM EMBEDMENT



REVISION:			
1.	11/11/2019	NEW DETAIL	BDP
2.	7/7/2020	NU00109	DR



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PROJECT NUMBER:
216R-011HOQU

DESIGNER: (415) 580-6920 ex3
LISA THURSTON

SHEET
MOUNTING DETAIL

REV: A1 4/19/2023

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SnapTrack
Solar Mounting Solutions

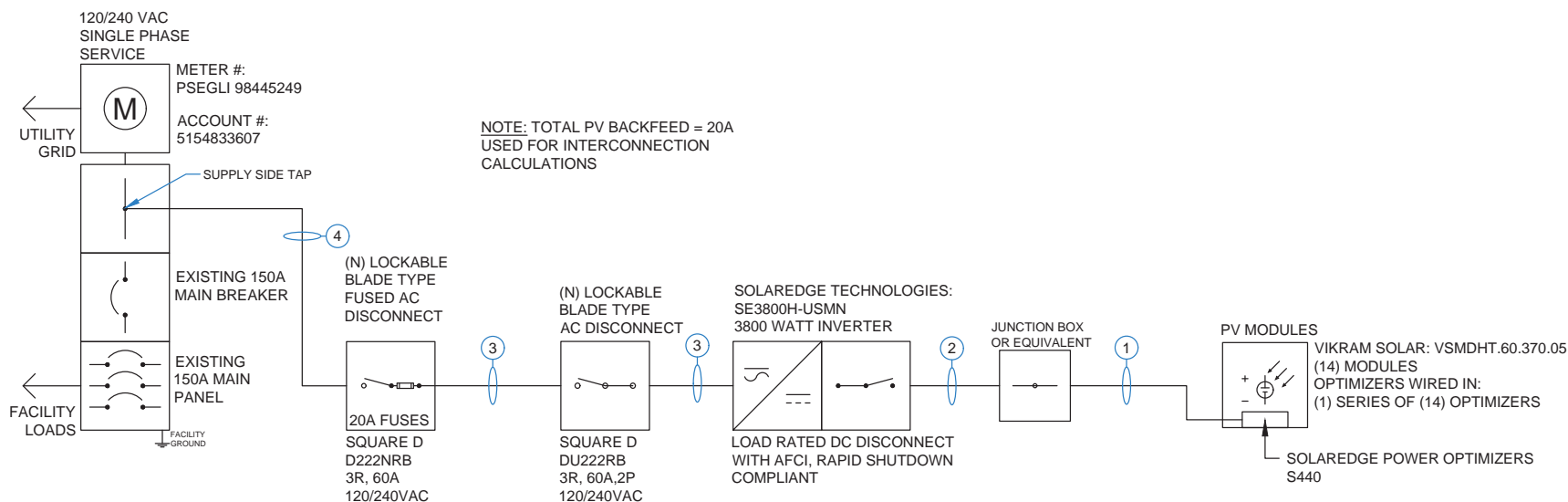
Sunrun South LLC
530 MARKET STREET, 38TH FLOOR, SAN FRANCISCO, CA 94103 USA
PHONE (415) 580-6900 - FAX (415) 580-6902

DESIGNER: D.RYAN
DRAFTER: B.PETERSON
APPROVED BY: W.ARBUCKLE

SCALE: NTS
DATE: 7/7/2020

PART NUMBER:
SNR-DC-00436

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CONDUIT SCHEDULE

#	CONDUIT	CONDUCTOR	NEUTRAL	GROUND
1	NONE	(2) 10 AWG PV WIRE	NONE	(1) 6 AWG BARE COPPER
2	1" PVC OR EQUIV.	(2) 10 AWG THHN/THWN-2	NONE	(1) 10 AWG THHN/THWN-2
3	1" PVC OR EQUIV.	(2) 10 AWG THHN/THWN-2	(1) 10 AWG THHN/THWN-2	(1) 8 AWG THHN/THWN-2
4	1" PVC OR EQUIV.	(2) 6 AWG THHN/THWN-2	(1) 8 AWG THHN/THWN-2	(1) 8 AWG THHN/THWN-2

MODULE CHARACTERISTICS

VIKRAM SOLAR: VSMDHT.60.370.05: 370 W
OPEN CIRCUIT VOLTAGE: 41.1 V
MAX POWER VOLTAGE: 34.9 V
SHORT CIRCUIT CURRENT: 12.71 A

S440 OPTIMIZER CHARACTERISTICS:

MIN INPUT VOLTAGE: 8 VDC
MAX INPUT VOLTAGE: 60 VDC
MAX INPUT ISC: 14.5 ADC
MAX OUTPUT CURRENT: 15 ADC

SYSTEM CHARACTERISTICS - INVERTER 1

SYSTEM SIZE: 5180 W
SYSTEM OPEN CIRCUIT VOLTAGE: 14 V
SYSTEM OPERATING VOLTAGE: 380 V
MAX ALLOWABLE DC VOLTAGE: 480 V
SYSTEM OPERATING CURRENT: 13.63 A
SYSTEM SHORT CIRCUIT CURRENT: 15 A

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DESIGNER: (415) 580-6920 ex3
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SHEET
ELECTRICAL

REV: A1 4/19/2023

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WARNING
ELECTRICAL SHOCK HAZARD

TERMINALS ON LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL LOCATION:
INVERTER(S), AC/DC DISCONNECT(S),
AC COMBINER PANEL (IF APPLICABLE).
PER CODE(S): NEC 2017: 690.13(B)

WARNING
PHOTOVOLTAIC SYSTEM
COMBINER PANEL

DO NOT ADD LOADS

LABEL LOCATION:
PHOTOVOLTAIC AC COMBINER (IF
APPLICABLE).
PER CODE(S): NEC 2017: 705.12(B)(2)(3)(c)

INVERTER 1

PHOTOVOLTAIC DC DISCONNECT

MAXIMUM SYSTEM VOLTAGE:	480	VDC
MAXIMUM CIRCUIT CURRENT:	15	ADC
MAX RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED):	15	ADC

LABEL LOCATION:
INVERTER(S), DC DISCONNECT(S).
PER CODE(S): CEC 2019: 690.53, NEC 2017: 690.53

WARNING
POWER SOURCE OUTPUT CONNECTION

DO NOT RELOCATE THIS OVERCURRENT DEVICE

LABEL LOCATION:
ADJACENT TO PV BREAKER (IF
APPLICABLE).
PER CODE(S): NEC 2017:
705.12(B)(2)(3)(b)

WARNING
DUAL POWER SUPPLY

SOURCES: UTILITY GRID
AND PV SOLAR ELECTRIC
SYSTEM

LABEL LOCATION:
UTILITY SERVICE METER AND MAIN
SERVICE PANEL.
PER CODE(S): NEC 2017: 705.12(B)(3)

**RAPID SHUTDOWN SWITCH
FOR SOLAR PV SYSTEM**

LABEL LOCATION:
INSTALLED WITHIN 3' OF RAPID SHUT DOWN
SWITCH PER CODE(S): NEC 2017: 690.56(C)(3), IFC
2012: 605.11.1, IFC 2018: 1204.5.3

**WARNING: PHOTOVOLTAIC
POWER SOURCE**

LABEL LOCATION:
INTERIOR AND EXTERIOR DC CONDUIT EVERY 10 FT,
AT EACH TURN, ABOVE AND BELOW PENETRATIONS,
ON EVERY JB/PULL BOX CONTAINING DC CIRCUITS.
PER CODE(S): NEC 2017: 690.31(G)(3), 690.31(G)(4),
IFC 2012: 605.11.1.4

PHOTOVOLTAIC AC DISCONNECT

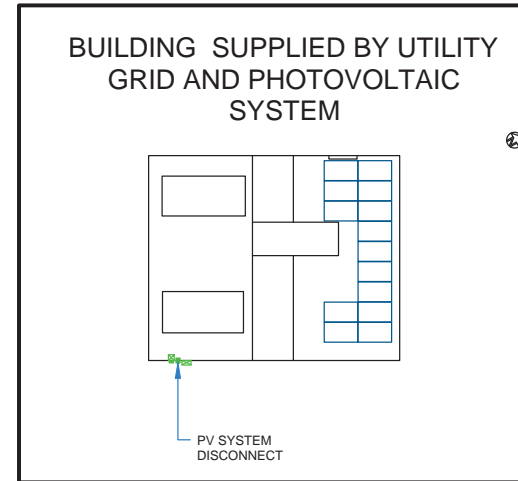
MAXIMUM AC OPERATING CURRENT:
NOMINAL OPERATING AC VOLTAGE: 240 VAC

LABEL LOCATION:
AC DISCONNECT(S), PHOTOVOLTAIC SYSTEM POINT OF
INTERCONNECTION.
PER CODE(S): NEC 2017: 690.54

**SOLAR PV SYSTEM EQUIPPED
WITH RAPID SHUTDOWN**

TURN RAPID SHUTDOWN
SWITCH TO THE "OFF"
POSITION TO SHUT DOWN
PV SYSTEM AND REDUCE
SHOCK HAZARD IN THE
ARRAY.

LABEL LOCATION:
ON OR NO MORE THAT 1 M (3 FT) FROM THE SERVICE
DISCONNECTING MEANS TO WHICH THE PV SYSTEMS
ARE CONNECTED.
PER CODE(S): NEC 2017: 690.56(C)(1)(a)



LABEL LOCATION:
POINT OF INTERCONNECTION
(PER CODE: NEC690.56(B), NEC705.10, 225.37, 230.2(E))

NOTES AND SPECIFICATIONS:

- SIGNS AND LABELS SHALL MEET THE REQUIREMENTS OF THE NEC 2017 ARTICLE 110.21(B), UNLESS SPECIFIC INSTRUCTIONS ARE REQUIRED BY SECTION 690, OR IF REQUESTED BY THE LOCAL AHJ.
- SIGNS AND LABELS SHALL ADEQUATELY WARN OF HAZARDS USING EFFECTIVE WORDS, COLORS AND SYMBOLS.
- LABELS SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT OR WIRING METHOD AND SHALL NOT BE HAND WRITTEN.
- LABEL SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
- SIGNS AND LABELS SHALL COMPLY WITH ANSI Z535.4-2011, PRODUCT SAFETY SIGNS AND LABELS, UNLESS OTHERWISE SPECIFIED.
- DO NOT COVER EXISTING MANUFACTURER LABELS.

SUNRUN

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PROJECT NUMBER:
216R-011HOQU

DESIGNER: (415) 580-6920 ex3
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SHEET
SIGNAGE

REV: A1 4/19/2023

PAGE PV-5.0

PREXOS

SERIES 6

Monocrystalline Solar PV Modules, Bifacial, MBB, M6 Half-Cell, PREXOS VSMDHT.60.AAA.05

POWER OUTPUT WATT

340-375

MAXIMUM EFFICIENCY %

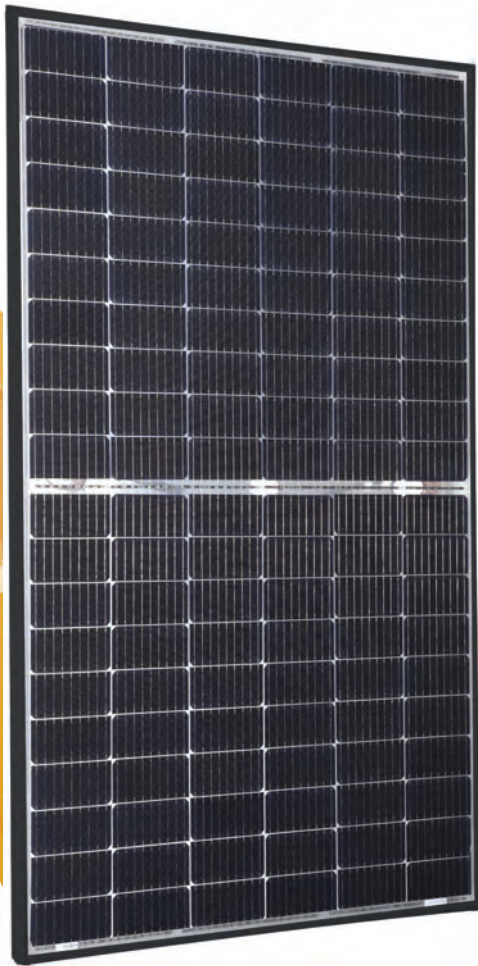
20.22

POSITIVE POWER TOLERANCE WP

0~+4.99

CELLS (HALF CUT)

M6 120



EFFECTIVE GAIN OF 1% OF CELL ACTIVE AREA by using cylindrical tabbing wire



Bypass diodes and innovative series-parallel connections enable the module to perform better in **PARTIAL SHADOW CONDITIONS**



BETTER TOLERANCE TO MICRO CRACK
Higher number of busbar makes the PV modules less prone to loss in efficiency due to micro-cracks.



IMPROVED FIELD RELIABILITY due to multiple contact points on the cell.

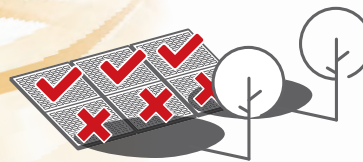


SUPERIOR PRICE PERFORMANCE
half-cut improves the output of the module without adding much to cost



UP TO 15% POWER GAIN from ground facing side

INCREASED SHADE TOLERANCE



HALF-CELL MODULE

Functions like two parallel modules, enabling the half-cell string to work in partial shading



APPLICATIONS

- ♦ On-grid large scale utility systems
- ♦ On-grid rooftop industrial and commercial systems
- ♦ Rooftop residential systems

FRAME

SILVER

BLACK

BACKSHEET

TRANSPARENT

WHITE

BLACK

THIS DATASHEET IS APPLICABLE FOR: PREXOS VSMDHT.60.AAA.05 (AAA=340-375)

Electrical Data^{1,2} All data refers to STC (AM 1.5, 1000 W/m², 25°C)

	340	345	350	355	360	365	370	375
Peak Power P _{max} (0 ~ +4.99Wp)	340	345	350	355	360	365	370	375
Maximum Voltage V _{mpp} (V)	34.5	34.6	34.6	34.7	34.7	34.8	34.9	34.9
Maximum Current I _{mpp} (A)	9.88	10.01	10.13	10.27	10.41	10.53	10.65	10.75
Open Circuit Voltage V _{oc} (V)	40.6	40.7	40.8	40.8	40.9	41	41.1	41.1
Short Circuit Current I _{sc} (A)	10.9	11.01	11.13	11.25	11.35	11.45	11.55	11.65
Module Efficiency η(%)	18.34	18.61	18.88	19.14	19.41	19.68	19.95	20.22

1) STC:1000 W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3. 2) Power measurement uncertainty is within +/- 2%.

Electrical Parameters at NOCT³

Power (W)	251.6	255.3	259	262.7	266.4	270.1	273.8	277.5
V@P _{max} (V)	31.9	32	32	32.1	32.1	32.2	32.2	32.2
I@P _{max} (A)	7.9	8.01	8.1	8.22	8.33	8.42	8.52	8.6
V _{oc} (V)	37.9	38	38.1	38.1	38.2	38.3	38.4	38.4
I _{sc} (A)	9.93	10.03	10.14	10.25	10.34	10.43	10.52	10.61

Equivalent Bifacial Output

Bifacial Gain								
5%	357	362.25	367.5	372.75	378	383.25	388.5	393.75
10%	374	379.5	385	390.5	396	401.5	407	412.5
15%	391	396.75	402.5	408.25	414	419.75	425.5	431.25

Temperature Coefficients (Tc) permissible operating conditions

Tc of Open Circuit Voltage (β)	-0.27%/°C
Tc of Short Circuit Current (α)	0.050%/°C
Tc of Power (γ)	-0.35%/°C
Maximum System Voltage	1500V
NOCT	45°C ± 2°C
Temperature Range	-40°C to + 85°C

Mechanical Data

Length × Width × Height	1766 × 1050 × 35mm (69.53 × 41.34 × 1.38 inches)
Weight	20.3 Kg (44.75 lbs)
Junction Box	IP68, Split Junction Box with individual bypass diodes
Cable & Connectors [#]	200 mm (+ve terminal) and 300 mm (-ve terminal) length cables, MC4 Compatible/MC4 Connectors
Application Class	Class A (Safety class II)
Superstrate	3.2 mm (0.125 inches) high transmission low iron tempered glass, AR coated
Cells	60 Mono-PERC (120 half-cells)
Back Sheet	High Transmittance Composite film with Clear Tedlar® from Dupont®
Frame	Anodized aluminium frame with twin wall profile
Encapsulant	Polyolefin (POE)
Mechanical Load Test	5400 Pa (Snow load), 2400 Pa (Wind load)
Maximum Series Fuse Rating	20 A

Warranty and Certifications

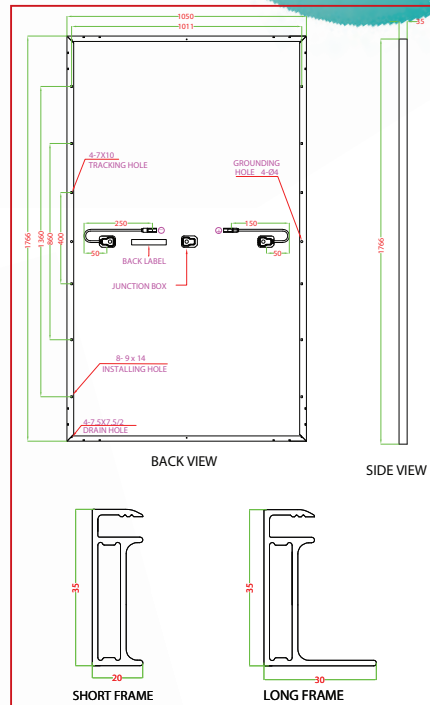
Product Warranty**	12 years
Performance Warranty**	Linear Power Warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27
Approvals and Certificates	IEC 61215 : 2016, IEC 61730 : 2016, IEC 61701, IEC 62716, IEC 60068-2-68 [^] , IEC 62804, CEC (California), UL 61215, UL61730, CAN-CSA, CE

CAUTION: READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT.

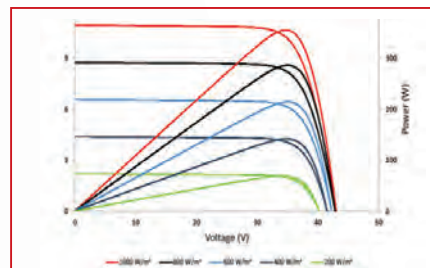
Specifications included in this datasheet are subject to change without notice. Electrical data without guarantee. Please confirm your exact requirement with the company representative while placing your order.

[#]Vikram Solar & Prexos and the accompanying Logos are trademarks of Vikram Solar Limited registered in India.

Dimensions in mm

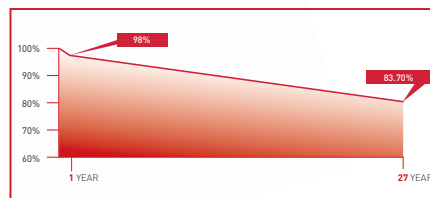


Typical I-V Curves⁴



⁴ Average relative efficiency reduction of 5% at 200 W/m² according to EN 60904-1.

Performance Warranty



Packaging Information

Quantity/Pallet	31
Pallets/Container (40' HC)	26
Quantity/Container (40' HC)	806

[^] All (*) certifications under progress.

** Refer to Vikram Solar's warranty document for terms and conditions.

[#] 400mm (15.75 inches), 1000mm (39.37 inches), 1200mm (47.24 inches) cable lengths are also available.



SolarEdge Single Phase Inverters

For North America

SE3000A-US / SE3800A-US / SE5000A-US / SE6000A-US /
SE7600A-US / SE10000A-US / SE11400A-US



INVERTERS

The best choice for SolarEdge enabled systems

- Integrated arc fault protection (Type 1) for NEC 2011 690.11 compliance
- Superior efficiency (98%)
- Small, lightweight and easy to install on provided bracket
- Built-in module-level monitoring
- Internet connection through Ethernet or Wireless
- Outdoor and indoor installation
- Fixed voltage inverter, DC/AC conversion only
- Pre-assembled Safety Switch for faster installation
- Optional – revenue grade data, ANSI C12.1



Single Phase Inverters for North America

SE3000A-US / SE3800A-US / SE5000A-US / SE6000A-US /
SE7600A-US / SE10000A-US / SE11400A-US

	SE3000A-US	SE3800A-US	SE5000A-US	SE6000A-US	SE7600A-US	SE10000A-US	SE11400A-US		
OUTPUT									
Nominal AC Power Output	3000	3800	5000	6000	7600	9980 @ 208V 10000 @ 240V	11400	VA	
Max. AC Power Output	3300	4150	5400 @ 208V 5450 @ 240V	6000	8350	10800 @ 208V 10950 @ 240V	12000	VA	
AC Output Voltage Min.-Nom.-Max. ⁽¹⁾ 183 - 208 - 229 Vac	-	-	✓	-	-	✓	-		
AC Output Voltage Min.-Nom.-Max. ⁽¹⁾ 211 - 240 - 264 Vac	✓	✓	✓	✓	✓	✓	✓		
AC Frequency Min.-Nom.-Max. ⁽¹⁾	59.3 - 60 - 60.5 (with HI country setting 57 - 60 - 60.5)							Hz	
Max. Continuous Output Current	12.5	16	24 @ 208V 21 @ 240V	25	32	48 @ 208V 42 @ 240V	47.5	A	
GFDI Threshold				1				A	
Utility Monitoring, Islanding Protection, Country Configurable Thresholds				Yes				Yes	
INPUT									
Maximum DC Power (STC)	4050	5100	6750	8100	10250	13500	15350	W	
Transformer-less, Ungrounded				Yes					
Max. Input Voltage				500				Vdc	
Nom. DC Input Voltage				325 @ 208V / 350 @ 240V				Vdc	
Max. Input Current ⁽²⁾	9.5	13	16.5 @ 208V 15.5 @ 240V	18	23	33 @ 208V 30.5 @ 240V	34.5	Adc	
Max. Input Short Circuit Current				45				Adc	
Reverse-Polarity Protection				Yes					
Ground-Fault Isolation Detection				600k Ω Sensitivity					
Maximum Inverter Efficiency	97.7	98.2	98.3	98.3	98	98	98	%	
CEC Weighted Efficiency	97.5	98	97.5 @ 208V 98 @ 240V	97.5	97.5	97 @ 208V 97.5 @ 240V	97.5	%	
Nighttime Power Consumption				< 2.5			< 4	W	
ADDITIONAL FEATURES									
Supported Communication Interfaces				RS485, RS232, Ethernet, ZigBee (optional)					
Revenue Grade Data, ANSI C12.1				Optional ⁽³⁾					
Rapid Shutdown – NEC 2014 690.12				Functionality enabled when SolarEdge rapid shutdown kit is installed ⁽⁴⁾					
STANDARD COMPLIANCE									
Safety				UL1741, UL1699B, UL1998, CSA 22.2					
Grid Connection Standards				IEEE1547					
Emissions				FCC part15 class B					
INSTALLATION SPECIFICATIONS									
AC output conduit size / AWG range				3/4" minimum / 16-6 AWG		3/4" minimum / 8-3 AWG			
DC input conduit size / # of strings / AWG range				3/4" minimum / 1-2 strings / 16-6 AWG		3/4" minimum / 1-2 strings / 14-6 AWG			
Dimensions with Safety Switch (HxWxD)				30.5 x 12.5 x 7.2 / 775 x 315 x 184		30.5 x 12.5 x 10.5 / 775 x 315 x 260		in / mm	
Weight with Safety Switch	51.2 / 23.2				54.7 / 24.7		88.4 / 40.1		lb / kg
Cooling				Natural Convection		Fans (user replaceable)			
Noise				< 25		< 50		dBa	
Min.-Max. Operating Temperature Range				-13 to +140 / -25 to +60 (-40 to +60 version available ⁽⁵⁾)				°F / °C	
Protection Rating				NEMA 3R					

⁽¹⁾ For other regional settings please contact SolarEdge support.

⁽²⁾ A higher current source may be used; the inverter will limit its input current to the values stated.

⁽³⁾ Revenue grade inverter P/N: SExxxxA-US000NNR2 (for 7600W inverter:SE7600A-US002NNR2).

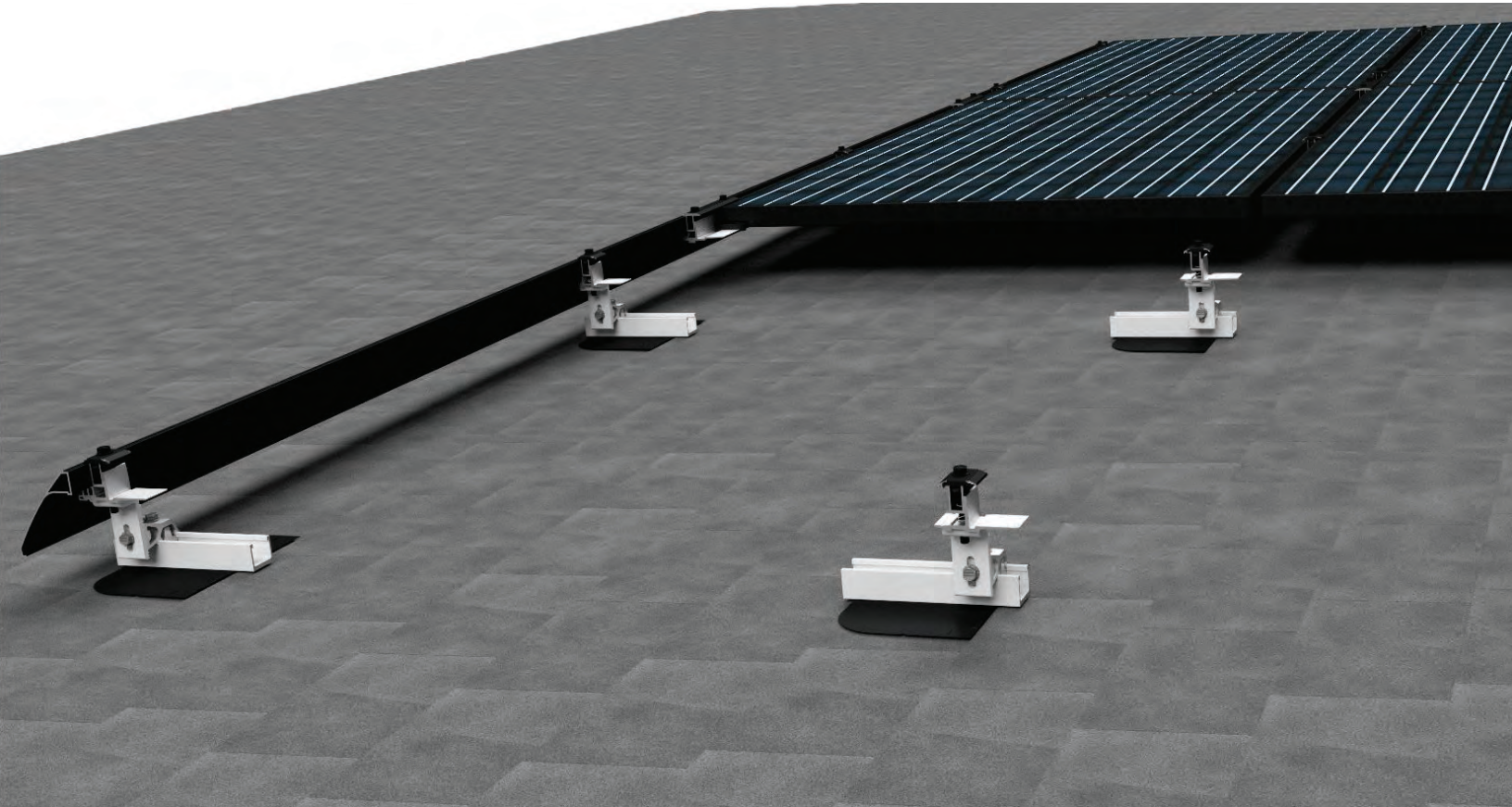
⁽⁴⁾ Rapid shutdown kit P/N: SE1000-RSD-S1.

⁽⁵⁾ -40 version P/N: SExxxxA-US000NNU4 (for 7600W inverter:SE7600A-US002NNU4).



RoHS

RL Universal



Installing Solar Has Never Been This Fast & Easy



System designed with maximum versatility for any arrays including staggered



All parts fit in a box for easy logistics



Drop-in features make the install process intuitive and fast



Simple design allows system to be installed by single installer on the roof



Listed to UL Standard 2703 for Grounding/Bonding and Fire Classification

SnapNrack RL Universal

is designed to provide the fastest, most intuitive install experience for residential roofs. The direct mount system features four basic components for easy material management. Features incredible flexibility with a single Universal mounts that fit module heights from 32 - 40 mm and the highest spans of any current rail less system.



Flash Track with Patented Umbrella Technology

- Single Umbrella lag screw secures flashing and flash track to roof in one complete action
- Umbrella technology provides weatherproofing with a long-lasting mechanical seal
- Flash track is designed for maximum versatility with 6 inches of North-South adjustability for all Mounts

Mounts

- Single mount used at all locations on array
- Extreme time saver by eliminating link interference through the flexibility of the Mount to change orientation
- Features a rock-in channel nut design for easy attachment to Flash Track
- Slotted riser provides leveling for easy height adjustments



Links

- Simple design provides mounting platform between two to four modules
- Clamps onto top of modules securing them in place while providing row-to-row bonding
- Next row of modules easily slides into place as with the Mounts

Skirt

- Easily locks to bottom of module mounts and links for clean aesthetics
- Ensures a strong structure for leveling and alignment of first row of modules
- Skirt length is compatible with both portrait and landscape module orientations



Quality. Innovative. Superior.

SnapNrack Solar Mounting Solutions are engineered to optimize material use and labor resources and improve overall installation quality and safety.

877-732-2860

www.snapnrack.com

contact@snapnrack.com

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SUNRUN

177 CANTIAGUE ROCK ROAD, WESTBURY, NY 11590
PHONE 805.540.5487
FAX 845.268.2022

CUSTOMER RESIDENCE:
MD HOQUE
11 ASH ST, FLORAL PARK, NY,
11001

PROJECT NUMBER:
216R-011HOQU

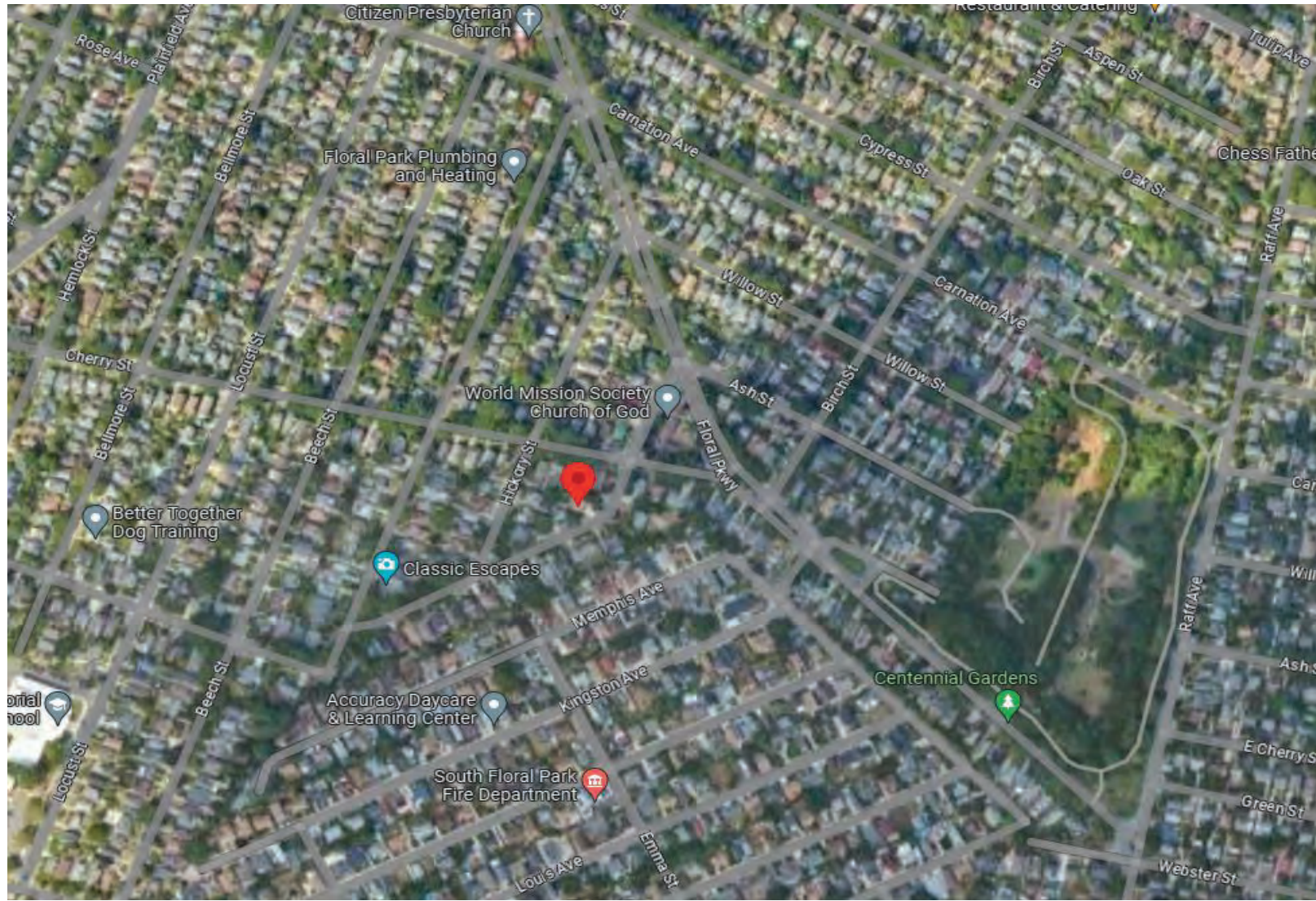
REV: A1 4/24/2023

PAGE ARB RENDERING

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
6	8:25 p.m.	24	Cedar Place	Solar	Nico Cappuccio	Momentum Solar



24 Cedar Place (Aerial View)



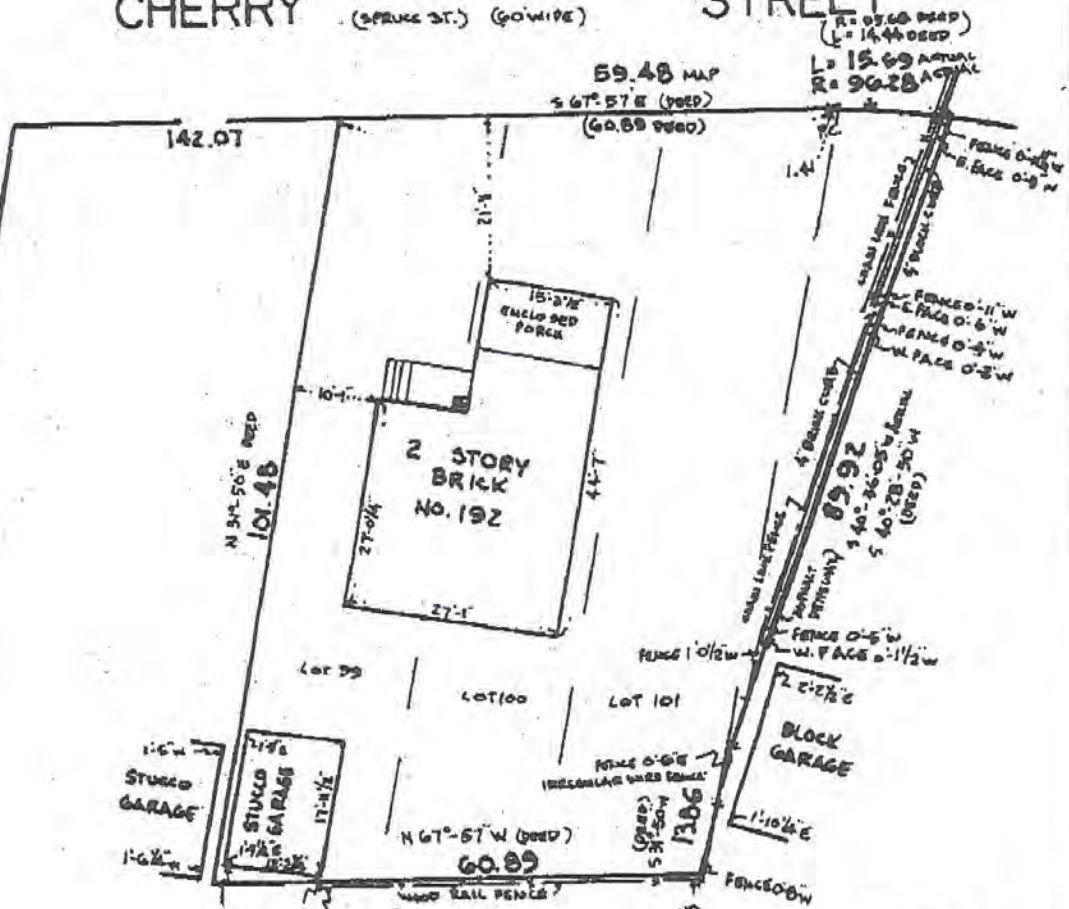
TITLE NO. FOR GZ10N

24 Cedar

32-217-6

CEDAR STREET
60' WIDE

CHERRY STREET (SPRUKE ST.) (60' WIDE) STREET



LOTS 99, 100, 101 & PART OF 102 - BLOCK 24
 "MAP OF PROPERTY OF FLORAL PARK VILLA CO."
 TOWN OF HEMPSTEAD, NASSAU COUNTY, NEW YORK

UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY IS A VIOLATION OF SECTION 2100 OF THE NEW YORK STATE ENGINEERING LAW.
 ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY ISSUED WITH AN ORIGINAL OF THE LAND SURVEYOR'S LICENSE SEAL OR PRINTED SEAL SHALL BE CONSIDERED A VALID TRUE COPY.
 CERTIFICATIONS INDICATED HEREON SHALL BEG ONLY TO THE PERSON FOR WHOM THE SURVEY IS PREPARED AND OR HIS HEIR OR TO THE TITLE COMPANY, GOVERNMENTAL AGENCY AND LENDING INSTITUTION LISTED HEREON, AND TO THE AGENTS OF THE LENDING INSTITUTION.
 CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.



CERTIFIED TO: FIDELITY NATIONAL TITLE OF NEW YORK INC.
 COLONIAL MORTGAGE CORPORATION
 JOHN M. WOODS, JANET A. WOODS

FOUNDED IN 1882 BY E.M. CROWLIN

ERLANDSEN-CROWELL & SHAW
 Civil Engineers & City Surveyors

ERLANDSEN-CROWELL & SHAW
 BY

241 JERICHO TPKE. NEW HYDE PARK, NY 11040 516-256-4865
 718-526-0209

PLAN KEY	
PV-1	COVER PAGE
PV-1(2)	COVER PAGE CONT.
PV-2	PANEL LAYOUT
PV-2(2)	PLOT LAYOUT
PV-3	ELEVATION 1
PV-4	ELEVATION 2
PV-5	ELEVATION 3
PV-6	SUPERIMPOSED PHOTOS
PV-7	SUPERIMPOSED PHOTOS
PV-8	ELECTRICAL
PV-9	EQUIPMENT LABELS

SYSTEM INFORMATION	
MODULE	HANWHA Q.PEAK DUO BLK-G10+ 365
INVERTER	ENPHASE IQ8PLUS-72-2-US
RACKING	ROOFTECH RT-APEX
SYSTEM SIZE (DC)	4.745 KW
LOCATION	40.7164828,-73.7004099

GENERAL NOTES:

THIS PV SYSTEM HAS BEEN DESIGNED TO MEET THE MINIMUM DESIGN STANDARDS FOR BUILDING AND OTHER STRUCTURES OF THE ASCE 7-16, 2020 NYS BUILDING CODE AND 2020 NYS RESIDENTIAL CODE, NEC 2017 AND ALL LOCAL CODES & ORDINANCES.

AN 18" WIDE (FREE OF SOLAR EQUIPMENT) SHALL BE PROVIDED ON BOTH SIDES OF THE ROOF. NOT FEWER THAN TWO PATHWAYS, ON SEPARATE ROOF PLANES FROM LOWEST ROOF EDGE TO RIDGE AND NOT LESS THAN 36 INCHES (914 MM) WIDE, SHALL BE PROVIDED ON ALL BUILDINGS. NOT FEWER THAN ONE PATHWAY SHALL BE PROVIDED ON THE STREET OR DRIVEWAY SIDE OF THE ROOF. FOR EACH ROOF PLANE WITH A PHOTOVOLTAIC ARRAY, A PATHWAY NOT LESS THAN 36 INCHES WIDE (914 MM) SHALL BE PROVIDED FROM THE LOWEST ROOF EDGE TO RIDGE ON THE SAME ROOF PLANE AS THE PHOTOVOLTAIC ARRAY, ON AN ADJACENT ROOF PLANE, OR STRADDLING THE SAME AND ADJACENT ROOF PLANES.

ROOF SHALL HAVE NO MORE THAN TWO LAYERS OF COVERING IN ADDITION TO THE SOLAR EQUIPMENT.

INSTALLATION OF SOLAR EQUIPMENT SHALL BE FLUSH MOUNTED, PARALLEL TO AND NO MORE THAN 6-INCHES ABOVE THE SURFACE OF THE ROOF.

WEIGHT OF THE INSTALLED SYSTEM SHALL NOT EXCEED MORE THAN 5-PSF FOR PHOTOVOLTAIC AND NO MORE THAN 6-PSF FOR RESIDENTIAL SOLAR HOT WATER SYSTEMS.

ANY PLUMBING VENTS ARE NOT TO BE CUT OR COVERED FOR SOLAR EQUIPMENT INSTALLATION. ANY RELOCATION OR MODIFICATION OF THE VENT REQUIRES A PLUMBING PERMIT AND INSPECTION.

INVERTER PLACEMENT:

SYSTEM UTILIZES "ENPHASE" MICRO-INVERTERS WITH RAPID SHUTDOWN CONTROL LOCATED ON THE BACK SIDE OF EACH MODULE.

BUILDING REVIEW NOTE:

TOWN BUILDING PLANS EXAMINER HAS RECEIVED THE ENCLOSED DOCUMENT FOR MINIMUM ACCEPTABLE PLAN SUBMITTAL REQUIREMENTS OF THE TOWN AS SPECIFIED IN THE BUILDING AND/OR RESIDENTIAL CODE OF THE STATE OF NEW YORK. THIS REVIEW DOES NOT GUARANTEE COMPLIANCE OF THAT CODE. THAT RESPONSIBILITY IS GUARANTEED UNDER THE SEAL AND SIGNATURE OF THE NEW YORK LICENSED DESIGN PROFESSIONAL OF RECORD. THAT SEAL AND SIGNATURE HAS BEEN INTERPRETED AS AN ATTESTATION THAT, TO THE BEST OF THE LICENSEE'S BELIEF AND INFORMATION, THE WORK IN DOCUMENT IS:

1. ACCURATE
2. CONFORMS WITH GOVERNING CODES APPLICABLE AT THE TIME OF THE SUBMISSION.
3. CONFORMS WITH REASONABLE STANDARDS OF PRACTICE AND WITH VIEW TO THE SAFEGUARDING OF LIFE, HEALTH, PROPERTY AND PUBLIC WELFARE IS THE RESPONSIBILITY OF THE LICENSEE.

THE RESPONSIBLE LICENSED DESIGN PROFESSIONAL SHALL PROVIDE A SIGNED AND SEALED LETTER CERTIFYING THE INSTALLATION WAS INSPECTED AND CONFORMS TO THE PLANS AND REQUIREMENTS OF THE 2020 NYS BUILDING CODE AND 2020 NYS RESIDENTIAL CODE. THIS INSPECTION AND CERTIFICATION LETTER SHALL BE PERFORMED AFTER INSTALLATIONS ARE COMPLETED AND SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO SCHEDULING OF FINAL INSPECTION.

THE UL CERTIFICATE OF ELECTRICAL INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO SCHEDULING OF FINAL INSPECTION.

BILL OF MATERIALS	
MODULES	13
INVERTERS	13
ROOFTECH BASE	43
MID CLAMP	23
END CLAMP	17
END SPLICE	3
END FLOATING SPLICE	3
MID FLOATING SPLICE	8
SKIRTS	5
ENPHASE COMBINER BOX	1
SOLAR AC DISCONNECT	1
20A OCPD	1
125A LINE TAPS	2



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR
3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ
(732) 902-6224, MOMENTUMSOLAR.COM

PROFESSIONAL ENGINEERING



MIMA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224
3096B HAMILTON BLVD SOUTH PLAINFIELD, NJ 07060
ENGINEERING LETTER ATTACHED HAS SPECIFICATIONS FOR WIND AND LOAD CALCULATIONS FOR SOLAR INSTALLATION SPANS & ATTACHMENTS TO MEET LOCAL AND STATE BUILDING CODE COMPLIANCE. WARNING THAT IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL, TO ALTER AN ITEM IN ANY WAY.

CUSTOMER INFORMATION

NICO CAPPUCCIO - MS124314
24 CEDAR PL
FLORAL PARK, NY 11001
9176970578

JURISTDICTION: NASSAU
UTILITY: PSE&I
UTILITY ACCT #:
UTILITY METER #:

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 4.745 KW
SYSTEM SIZE (AC): 3.77 KVA
13 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 365
(SAFE HARBOR MODULES: 0)
13 INVERTERS: ENPHASE IQ8PLUS-72-2-US

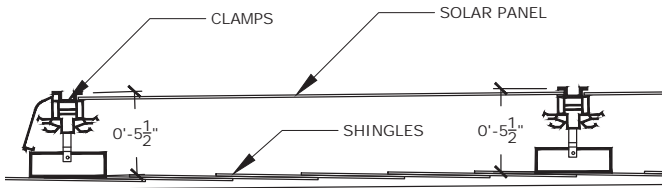
PROJECT INFORMATION

INITIAL	DATE: 4/14/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

COVER PAGE

PV-1

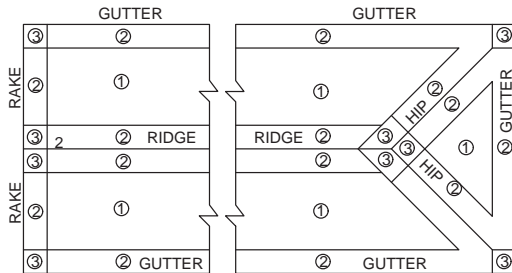
1. ALL WIND DESIGN CRITERIA ARE FOR LOW SLOPE ROOFS, GABLE AND HIP ROOFS CONSIDERED FROM AN ANGLE OF MIN. 9.5° (1/12) TO MAX. 45° (10/12) NOT TO EXCEED 30' MEAN ROOF HEIGHT ATTACHED WITH FASTENERS AS SPECIFIED BY THE MANUFACTURER.
2. SPAN TABLES ARE DERIVED FROM MECHANICAL LOAD TESTS PERFORMED BY THE MANUFACTURERS INDEPENDENT TESTING AGENCIES ON BEHALF OF THE MANUFACTURER.
3. ROOF SEALANTS SHALL CONFORM TO ASTM C920 AND ASTM 6511
4. ALL ATTACHMENTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.



CROSS SECTION OF ROOF SHOWING ATTACHMENT DETAILS

SCALE: 1-1/2" = 1"

ATTACHMENT SPACING EXCEED MANUFACTURERS SPECIFICATIONS FOR WIND LOADS AS PER ASCE 07-16. RISK CATEGORY II TOPOGRAPHIC EFFECTS B, C, & D AND ROOF WIND ZONES 1, 2, & 3. ROOF ZONES 2 & 3 ARE WITHIN 48" OF ANY OUTER EDGE, HIP, RIDGE, OR GUTTER LINE FOR STRUCTURES 30'-0" OR LESS MEAN ROOF HEIGHT.



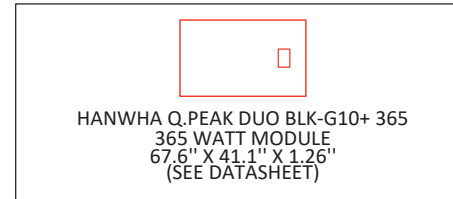
ROOF WIND ZONES AS PER IRC R301.2(7)
 ROOF ZONES 2 & 3 ARE 48" FROM OUTER ROOF EDGES,
 RIDGES, HIPs, RAKES, AND GUTTER EDGES FOR STRUCTURES
 BELOW 30'-0" MEAN ROOF HT.

TOTAL WEIGHT OF PV MODULES AND RAILS	544.05 LBS
TOTAL NUMBER OF ATTACHMENT POINTS	40
WEIGHT PER ATTACHMENT POINT	13.60125 LBS
TOTAL SURFACE AREA OF PV MODULES	235.82 SQFT
DISTRIBUTED WEIGHT OF PV MODULE ON ROOF	2.31 LBS./SQFT

STRUCTURAL STATEMENT:

THE EXISTING STRUCTURE IS ADEQUATE TO SUPPORT THE NEW LOADS IMPOSED BY THE PHOTOVOLTAIC MODULE SYSTEM INCLUDING UPLIFT & SHEAR. EXISTING RAFTER SIZES & DIMENSIONS CONFIRM TO 2020 NYS BUILDING CODE AND RESIDENTIAL CODE TABLE R802.5(1)-JOIST SPANS.

MOUNTING BRACKETS AND HARDWARE MEET OR EXCEED NEW YORK STATE CODE REQUIREMENTS FOR THE DESIGN CRITERIA OF THE TOWN.



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CUSTOMER INFORMATION

NICO CAPPUCCIO - MS124314
 24 CEDAR PL
 FLORAL PARK, NY 11001
 9176970578
 JURISTDICTION: NASSAU
 UTILITY: PSE&I
 UTILITY ACCT #:
 UTILITY METER #:

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 4.745 KW
 SYSTEM SIZE (AC): 3.77 KVA
 13 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 365
 (SAFE HARBOR MODULES: 0)
 13 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION		
INITIAL	DATE: 4/14/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

ATTACHMENT DETAIL

PV-1(2)

CLIMATIC & GEOGRAPHIC DESIGN CRITERIA TABLE R301.2(1)

GROUND SNOW LOAD(LBS/SF)	25
SPEED (MPH)	120
TOPOGRAPHIC EFFECTS	B
SPECIAL WIND REGION	NO
WIND BORNE DEBRIS ZONE	2
SEISMIC DESIGN CATEGORY	B
CLIMATE ZONE	4A
WIND EXPOSURE CATEGORY	B

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



ROOF	MODULE COUNT	TILT	AZIMUTH	SHADING	LANDSCAPE MAX SPAN (ROOF AREA 1/2/3)	PORTRAIT MAX SPAN (ROOF AREA 1/2/3)
R1	13	11°	292°	92%	72 /72 /72	48 /48 /48



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PROFESSIONAL ENGINEERING



MIMA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224
3096B HAMILTON BLVD SOUTH PLAINFIELD, NJ 07060
ENGINEERING LETTER ATTACHED HAS SPECIFICATIONS FOR WIND
AND LOAD CALCULATIONS FOR SOLAR INSTALLATION SPANS &
ATTACHMENTS TO MEET LOCAL AND STATE BUILDING CODE
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CUSTOMER INFORMATION

NICO CAPPUCCIO - MS124314
24 CEDAR PL
FLORAL PARK, NY 11001
9176970578

JURISDICTION: NASSAU
UTILITY: PSE&I
UTILITY ACCT #:
UTILITY METER #:

PV SYSTEM INFORMATION

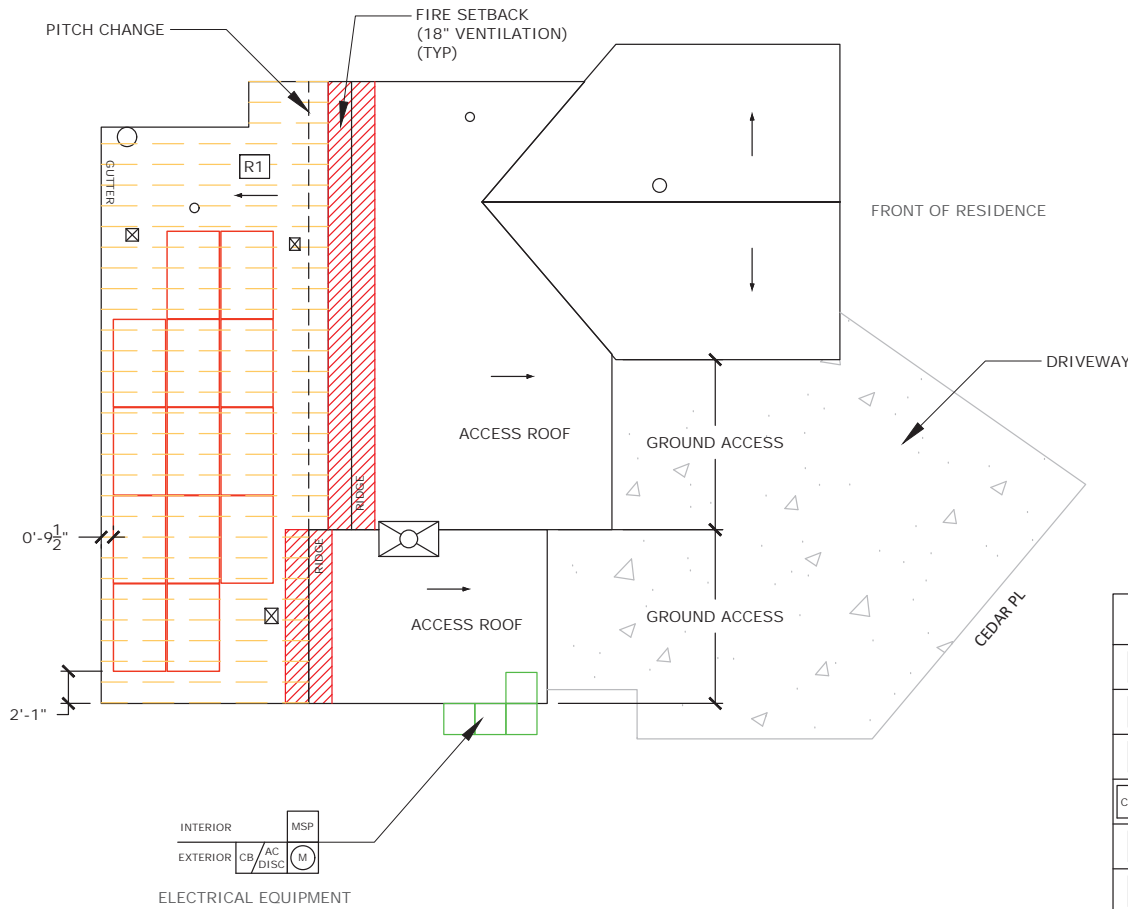
SYSTEM SIZE (DC): 4.745 KW
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BLK-G10+ 365
(SAFE HARBOR MODULES: 0)
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PROJECT INFORMATION

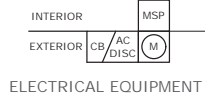
INITIAL	DATE: 4/14/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

PANEL LAYOUT

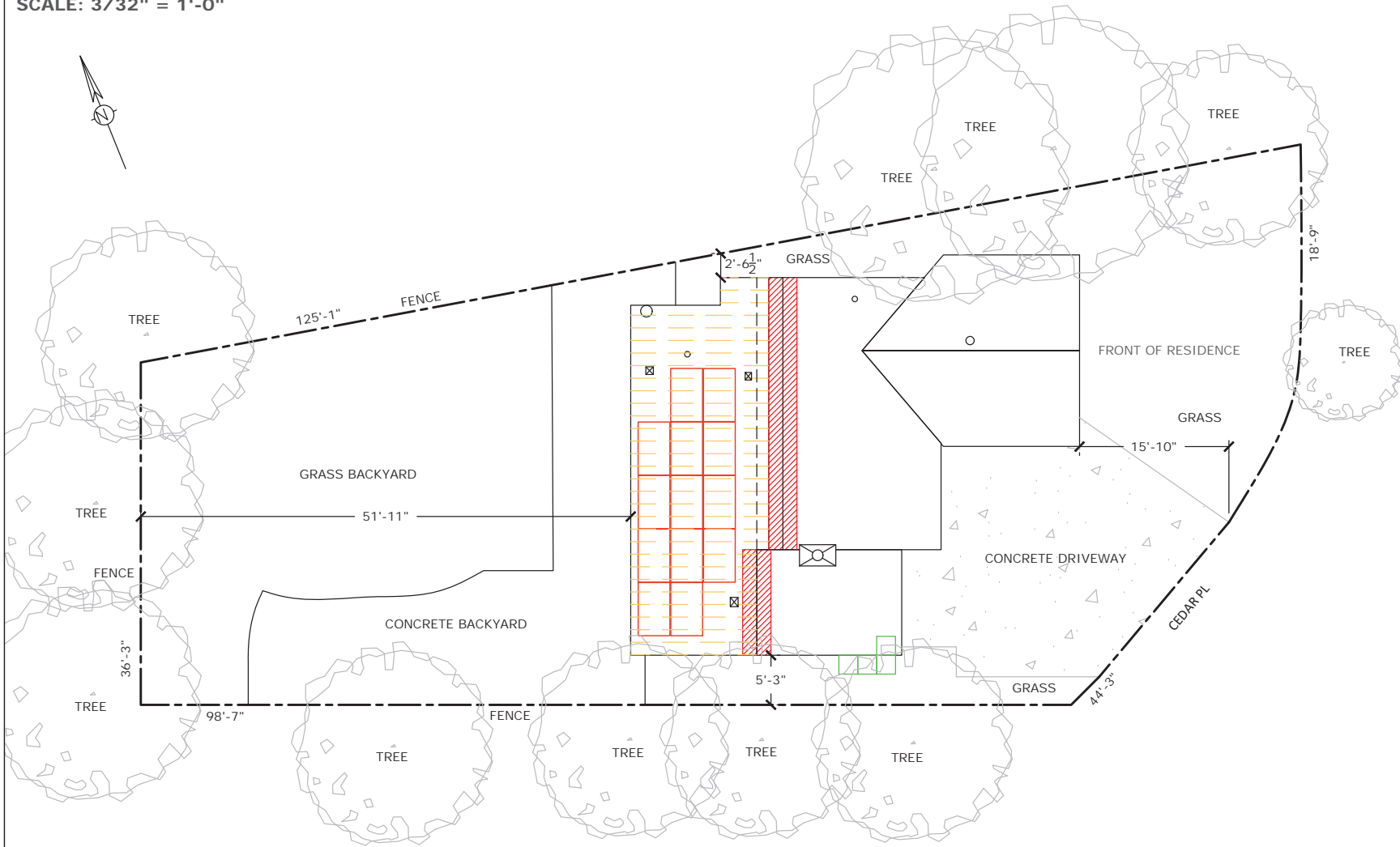
PV-2



SYMBOL LEGEND		
	MAIN SERVICE PANEL	
	SUB-PANEL	
	UTILITY METER	
	COMBINER BOX/AC DISCONNECT	
	UTILITY DISCONNECT	
	LOAD CENTER	
	NEMA 3R BOX W/ ENVOY-S	
	COMBINER BOX	
	PERFORMANCE METER	
	MODULE	



SCALE: 3/32" = 1'-0"



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3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ
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PROFESSIONAL ENGINEERING



MIMA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224
3096B HAMILTON BLVD SOUTH PLAINFIELD, NJ 07080
ENGINEERING LETTER ATTACHED HAS SPECIFICATIONS FOR WIND
AND LOAD CALCULATIONS FOR SOLAR INSTALLATION SPANS &
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CUSTOMER INFORMATION

NICO CAPPUCCIO - MS124314
24 CEDAR PL
FLORAL PARK, NY 11001
9176970578

JURISDICTION: NASSAU
UTILITY: PSE&I
UTILITY ACCT #:
UTILITY METER #:

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 4.745 KW
SYSTEM SIZE (AC): 3.77 KVA
13 MODULES: HANWHA Q.PEAK DUO
BLK-G10+ 365
(SAFE HARBOR MODULES: 0)
13 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION

INITIAL	DATE	DESIGNER
	4/14/2023	NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

PLOT PLAN

PV-2(2)



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR
3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ
(732) 902-6224, MOMENTUMSOLAR.COM

PROFESSIONAL ENGINEERING



MIMA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224
3096B HAMILTON BLVD SOUTH PLAINFIELD, NJ 07060
ENGINEERING LETTER ATTACHED HAS SPECIFICATIONS FOR WIND
AND LOAD CALCULATIONS FOR SOLAR INSTALLATION SPANS &
ATTACHMENTS TO MEET LOCAL AND STATE BUILDING CODE
COMPLIANCE. WARNING THAT IT IS A VIOLATION OF THE LAW FOR
ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A
LICENSED PROFESSIONAL, TO ALTER AN ITEM IN ANY WAY.

CUSTOMER INFORMATION

NICO CAPPUCCIO - MS124314
24 CEDAR PL
FLORAL PARK, NY 11001
9176970578

JURISDICTION: NASSAU
UTILITY: PSE&I
UTILITY ACCT #:
UTILITY METER #:

PV SYSTEM INFORMATION

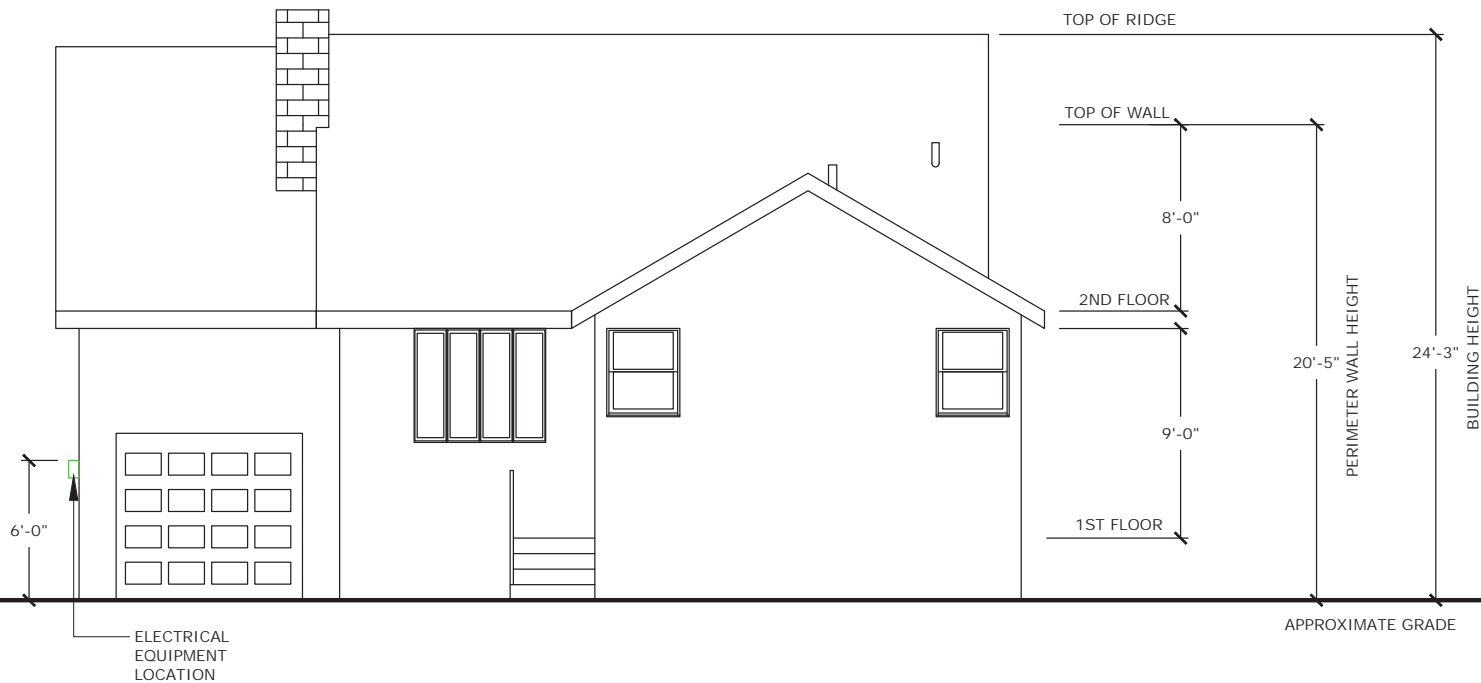
SYSTEM SIZE (DC): 4.745 KW
SYSTEM SIZE (AC): 3.77 KVA
13 MODULES: HANWHA Q.PEAK DUO
BLK-G10+ 365
(SAFE HARBOR MODULES: 0)
13 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION

INITIAL	DATE: 4/14/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

LAYOUT DETAIL

PV-3



FRONT ELEVATION
SCALE: 3/16" = 1'-0"



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR
 3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ
 (732) 902-6224, MOMENTUMSOLAR.COM

PROFESSIONAL ENGINEERING



MIMA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224
 3096B HAMILTON BLVD SOUTH PLAINFIELD, NJ 07080
 ENGINEERING LETTER ATTACHED HAS SPECIFICATIONS FOR WIND
 AND LOAD CALCULATIONS FOR SOLAR INSTALLATION SPANS &
 ATTACHMENTS TO MEET LOCAL AND STATE BUILDING CODE
 COMPLIANCE. WARNING THAT IT IS A VIOLATION OF THE LAW FOR
 ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A
 LICENSED PROFESSIONAL, TO ALTER AN ITEM IN ANY WAY.

CUSTOMER INFORMATION

NICO CAPPUCCIO - MS124314
 24 CEDAR PL
 FLORAL PARK, NY 11001
 9176970578

JURISDICTION: NASSAU
 UTILITY: PSE&I
 UTILITY ACCT #:
 UTILITY METER #:

PV SYSTEM INFORMATION

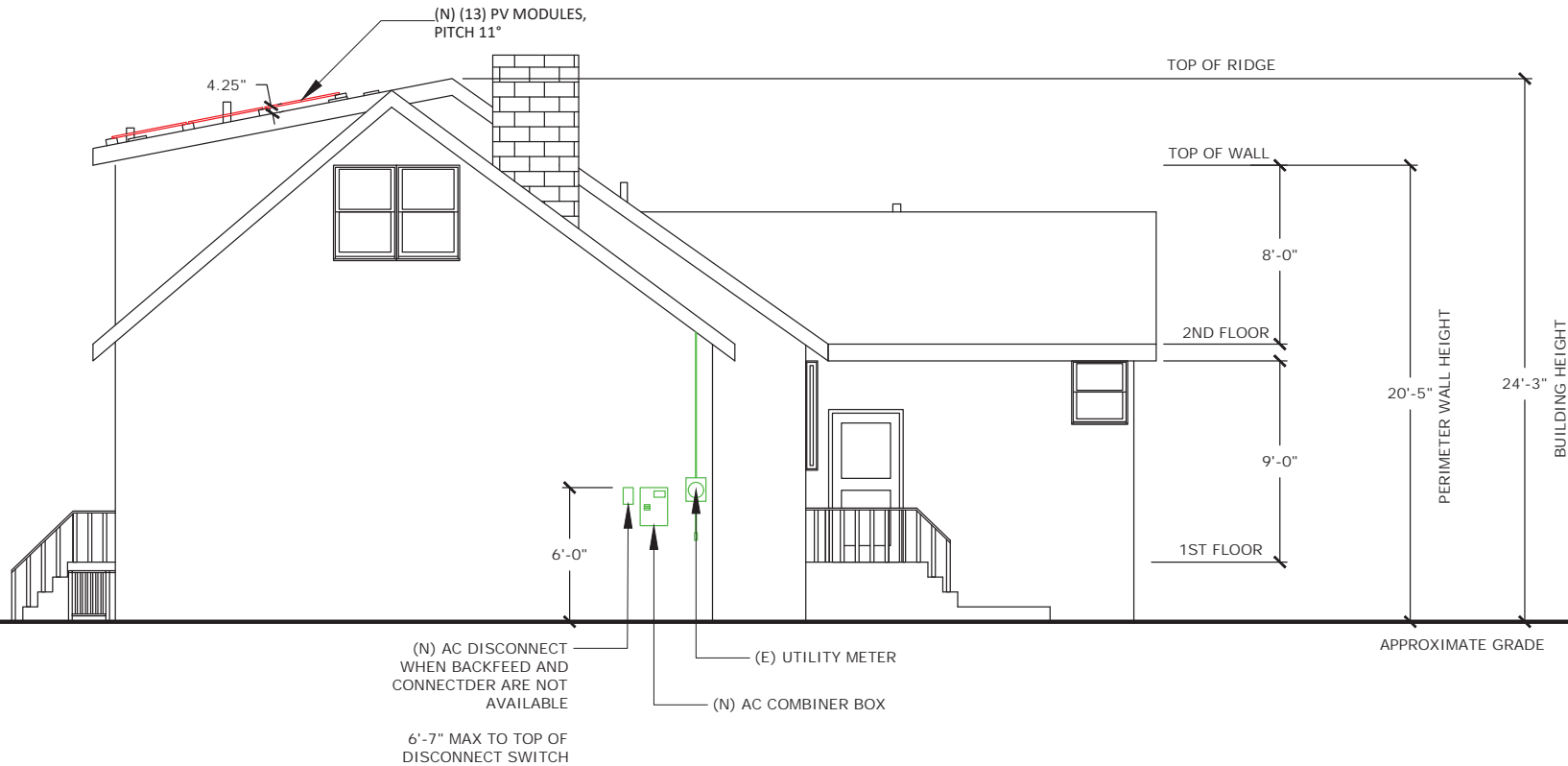
SYSTEM SIZE (DC): 4.745 KW
 SYSTEM SIZE (AC): 3.77 KVA
 13 MODULES: HANWHA Q.PEAK DUO
 BLK-G10+ 365
 (SAFE HARBOR MODULES: 0)
 13 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION

INITIAL	DATE	DESIGNER
	4/14/2023	NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

LAYOUT DETAIL

PV-4



SIDE ELEVATION
SCALE: 3/16" = 1'-0"

(N) AC DISCONNECT
 WHEN BACKFEED AND
 CONNECTER ARE NOT
 AVAILABLE
 6'-7" MAX TO TOP OF
 DISCONNECT SWITCH

(E) UTILITY METER

(N) AC COMBINER BOX



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 (732) 902-6224, MOMENTUMSOLAR.COM

PROFESSIONAL ENGINEERING



MIMA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224
 3096B HAMILTON BLVD SOUTH PLAINFIELD, NJ 07060
 ENGINEERING LETTER ATTACHED HAS SPECIFICATIONS FOR WIND
 AND LOAD CALCULATIONS FOR SOLAR INSTALLATION SPANS &
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CUSTOMER INFORMATION

NICO CAPPUCCIO - MS124314
 24 CEDAR PL
 FLORAL PARK, NY 11001
 9176970578

JURISDICTION: NASSAU
 UTILITY: PSEGLI
 UTILITY ACCT #:
 UTILITY METER #:

PV SYSTEM INFORMATION

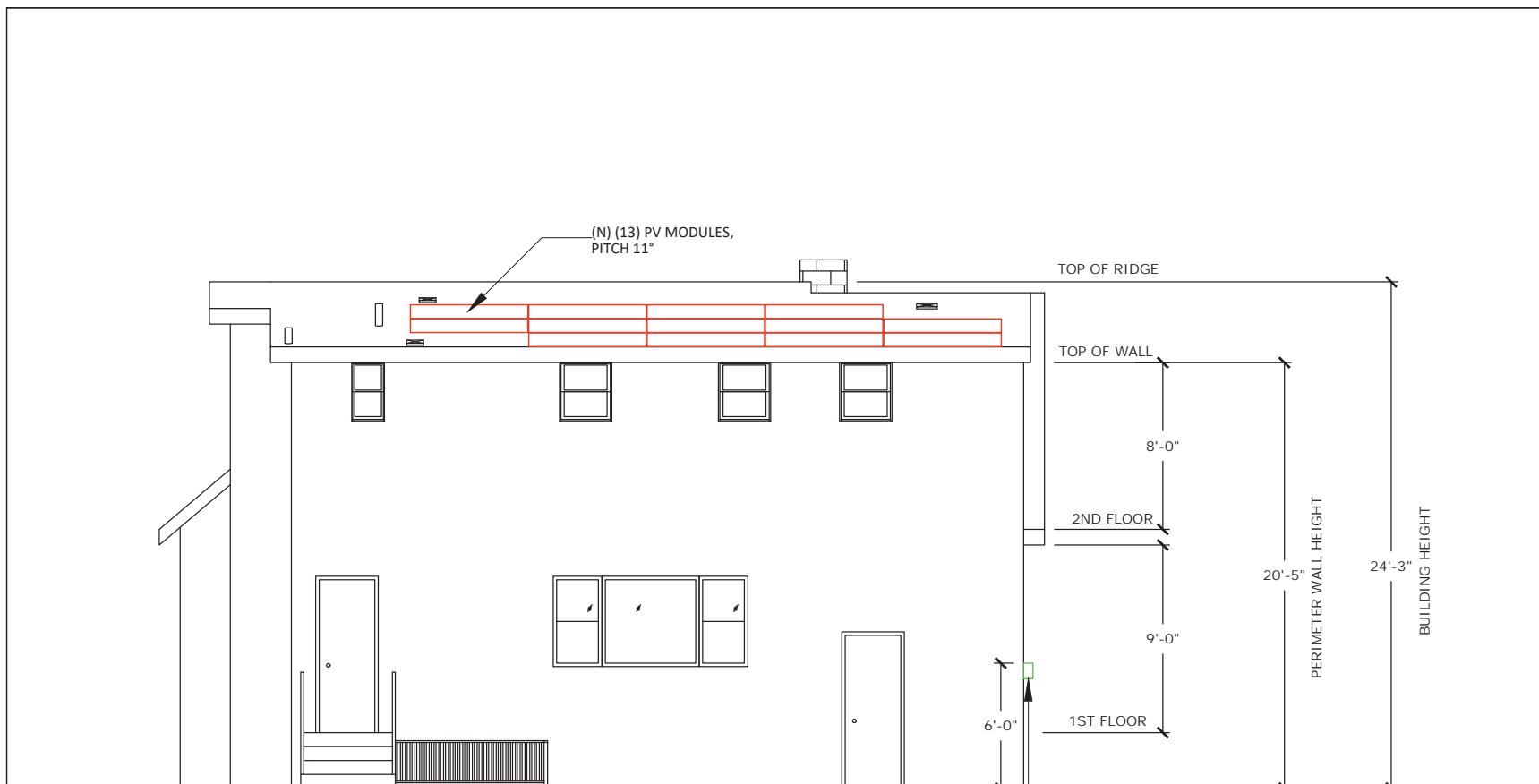
SYSTEM SIZE (DC): 4.745 KW
 SYSTEM SIZE (AC): 3.77 KVA
 13 MODULES: HANWHA Q.PEAK DUO
 BLK-G10+ 365
 (SAFE HARBOR MODULES: 0)
 13 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION

INITIAL	DATE	DESIGNER
	4/14/2023	NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

LAYOUT DETAIL

PV-5



REAR ELEVATION
SCALE: 3/16" = 1'-0"



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(732) 902-6224, MOMENTUMSOLAR.COM

PROFESSIONAL ENGINEERING



MIMA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224
3096B HAMILTON BLVD SOUTH PLAINFIELD, NJ 07060
ENGINEERING LETTER ATTACHED HAS SPECIFICATIONS FOR WIND
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CUSTOMER INFORMATION

NICO CAPPUCCIO - MS124314
24 CEDAR PL
FLORAL PARK, NY 11001
9176970578

JURISDICTION: NASSAU
UTILITY: PSEGLI
UTILITY ACCT #:
UTILITY METER #:

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 4.745 KW
SYSTEM SIZE (AC): 3.77 KVA
13 MODULES: HANWHA Q.PEAK DUO
BLK-G10+ 365
(SAFE HARBOR MODULES: 0)
13 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION

INITIAL	DATE: 4/14/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

SUPERIMPOSED PHOTOS

PV-6



FRONT OF HOUSE



FRONT OF HOUSE WITH ADJACENT STRUCTURE



SOUTHWEST ELEVATION



NORTHEAST ELEVATION



BACK OF HOUSE



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PROFESSIONAL ENGINEERING



MIMA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224
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 FLORAL PARK, NY 11001
 9176970578

JURISDICTION: NASSAU
 UTILITY: PSE&I
 UTILITY ACCT #:
 UTILITY METER #:

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 4.745 KW
 SYSTEM SIZE (AC): 3.77 KVA
 13 MODULES: HANWHA Q, PEAK DUO
 BLK-G10+ 365
 (SAFE HARBOR MODULES: 0)
 13 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION

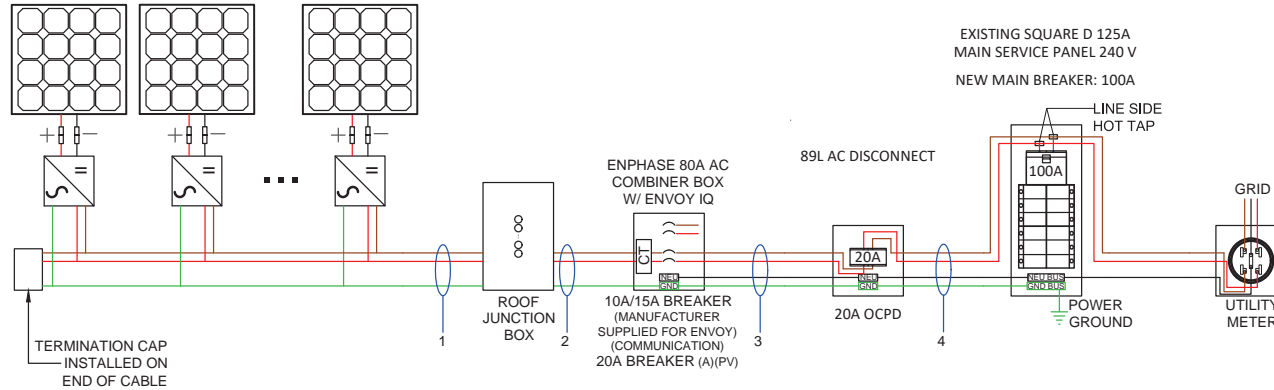
INITIAL	DATE: 4/14/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

SUPERIMPOSED PHOTOS

PV-7

13 HANWHA Q.PEAK DUO BLK-G10+ 365 365W MODULES PAIRED WITH
13 ENPHASE IQ8PLUS-72-2-US MICRO-INVERTERS

BRANCH CIRCUIT A
13 MICRO-INVERTERS



**SOLAR INSTALLER NOTES:
100A MAIN BREAKER INSTALL REQUIRED**

ELECTRICAL NOTES:

1. ALL CALCULATIONS FOR VOC, VMAX, IMP AND ISC HAVE BEEN CALCULATED USING THE MANUFACTURED STRING CALCULATOR BASED ON ASHRAE 2% HIGH AND EXTREME MINIMUM TEMPERATURE COEFFICIENTS.
2. THE ENTIRE ARRAY IS BONDED ACCORDING TO (NEC 690.46 - 250.120 PARAGRAPH C).
3. BRANCH CIRCUIT CALCULATION FOR WIRE TAG 1 DISPLAYS THE LARGEST BRANCH CIRCUIT IN SYSTEM. OTHER BRANCH CIRCUITS WILL HAVE LOWER DESIGN CURRENT THAN THE ONE SHOWN.
4. THIS SYSTEM COMPLIES WITH NEC 2017 89L LESS THAN 10FT TO THE MAIN BREAKER/METER.

5. ALL CONDUCTORS ARE SIZED BASED ON NEC 2017 ARTICLE 310
6. ALL EQUIPMENT INSTALLED IS RATED AT 75°C UNLESS NOTED
7. INVERTER NOC (NOMINAL OPEN CURRENT) OBTAINED FROM EQUIPMENT DATA SHEET
8. GROUNDING CONDUCTOR RUN WITH PHASE CONDUCTOR IN THE SAME CONDUIT.
9. SYSTEM IS CONSIDERED AN AC MODULE SYSTEM. NO DC CONDUCTORS ARE PRESENT IN CONDUIT, COMBINER, JUNCTION BOX, DISCONNECT. AND COMPILES WITH 690.6- NO DC. DISCONNECT AND ASSOCIATED DC CABLING ARE REQUIRED.

10. SYSTEM COMPLIES WITH 690.12 RAPID SHUTDOWN AND ASSOCIATED LABELING AS PER 690.56(C)(3). AC VOLTAGE AND SYSTEM OPERATING CURRENT SHALL BE PROVIDED AS PER 690.52.
11. CONDUCTORS IN CONDUIT ARE AC CONDUCTORS - BRANCH CIRCUITS AND NOT PV SOURCE CIRCUITS 690.6.
12. ALL GROUNDING SHALL COMPLY WITH 690.47(A) IN THAT THE AC MODULES SHALL COMPLY WITH 250.64.
13. NO TERMINALS WILL BE ENERGIZED IN THE OPEN POSITION IN THIS AC MODULE SYSTEM 690.6, 690.17.
14. WHERE APPLICABLE, INTERCONNECTION SHALL COMPLY WITH 705.12(A) OR 705.12(B) AS PERMITTED BY 230.82(6)



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3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ
(732) 902-6224. MOMENTUMSOLAR.COM

PROFESSIONAL ENGINEERING



MIMA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224
3096B HAMILTON BLVD SOUTH PLAINFIELD, NJ 07080
ENGINEERING LETTER ATTACHED HAS SPECIFICATIONS FOR WIND AND LOAD CALCULATIONS FOR SOLAR INSTALLATION SPANS & ATTACHMENTS TO MEET LOCAL AND STATE BUILDING CODE COMPLIANCE. WARNING THAT IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL, TO ALTER AN ITEM IN ANY WAY.

ELECTRICIAN

PRO CUSTOM SOLAR DBA MOMENTUM SOLAR
JEFFREY MARINELLO, (732) 902-6224
3096 HAMILTON BLVD. BUILDING B, SOUTH PLAINFIELD, NJ 07080

CUSTOMER INFORMATION

NICO CAPPUCCIO - MS124314
24 CEDAR PL
FLORAL PARK, NY 11001
9176970578

JURISDICTION: NASSAU
UTILITY: PSE&I
UTILITY ACCT #:
UTILITY METER #:

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 4.745 KW
SYSTEM SIZE (AC): 3.77 KVA
13 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 365
(SAFE HARBOR MODULES: 0)
13 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION

INITIAL	DATE: 4/14/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:


ELECTRICAL

PV-8


Wire Tag	Conduit	Wire Qty	Wire Gauge	Wire Type	Temp. Rating	Wire Ampacity (A)	Temp. Derate	Conduit Fill Derate	Derated Ampacity (A)	Inverter Qty	NOC (A)	NEC Correction	Design Current (A)	Ground Size	Ground Wire Type
1	OPEN AIR	2	12 AWG	Trunk Cable	90°C	30	0.96	1	28.80	13	1.21	1.25	19.66	12 AWG	Trunk Cable
2	3/4" PVC	2	10 AWG	THWN-2	90°C	40	0.96	1	38.40	13	1.21	1.25	19.66	08 AWG	THWN-2
3	3/4" PVC	3	10 AWG	THWN-2	75°C	35	0.96	1	33.60	13	1.21	1.25	19.66	08 AWG	THWN-2
4	3/4" PVC	3	06 AWG	THWN-2	75°C	65	0.96	1	62.40	13	1.21	1.25	19.66	08 AWG	THWN-2

TAG	LABEL	QUANTITY	LOCATION	NOTE
(A)		12	AC CONDUITS	1 AT EVERY SEPARATION BY ENCLOSURES / WALLS / PARTITIONS / CEILINGS / FLOORS OR NO MORE THAN 10'
(B)		1	COMBINER BOX	1 AT ANY COMBINER BOX
(C)		1	JUNCTION BOX	1 AT ANY JUNCTION BOX
(D)		1	AC DISCONNECT	1 OF EACH AT FUSED AC DISCONNECT COMPLETE VOLTAGE AND CURRENT VALUES ON DISCONNECT LABEL
(E)		1	PV METER SOCKET	1 AT PV METER SOCKET AND ONE DIRECTORY PLACARD
(F)		1	UTILITY METER	1 AT UTILITY METER AND ONE DIRECTORY PLACARD
(G)		1	INTERCONNECTION POINT	1 OF EACH AT BUILDING INTERCONNECTION POINT AND ONE DIRECTORY PLACARD
		1	BACKFEED PANEL	
(H)		1	AC CURRENT PV MODULES	


EXAMPLES




(A)




(B)




(C)




(D)



(E)




(F) BACKFEED



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3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ
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PROFESSIONAL ENGINEERING



MINA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224
3096 HAMILTON BLVD SOUTH PLAINFIELD, NJ 07080
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CUSTOMER INFORMATION

NICO CAPPUCCIO - MS124314
24 CEDAR PL
FLORAL PARK, NY 11001
9176970578

JURISTCTION: NASSAU
UTILITY: PSE&I
UTILITY ACCT #:
UTILITY METER #:

PV SYSTEM INFORMATION

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SYSTEM SIZE (AC): 3.77 KVA
13 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 365
(SAFE HARBOR MODULES: 0)
13 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION

INITIAL	DATE: 4/14/2023	DESIGNER: NA
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

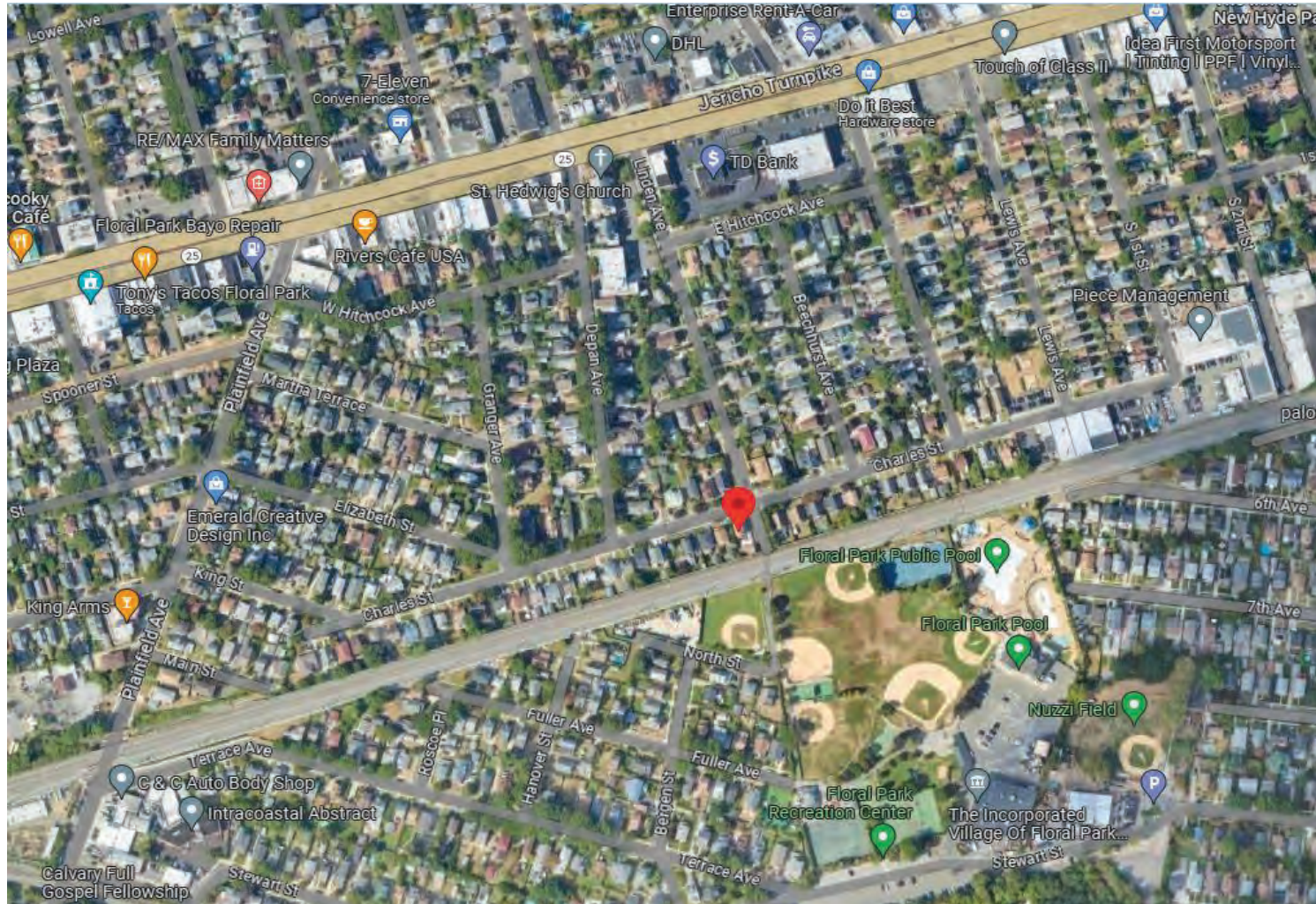
EQUIPMENT LABELS

PV-9

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
7	8:30 p.m.	96	Charles Street	Solar	Wing Chung	All Air Specialists Inc.



96 Charles Street (Aerial View)





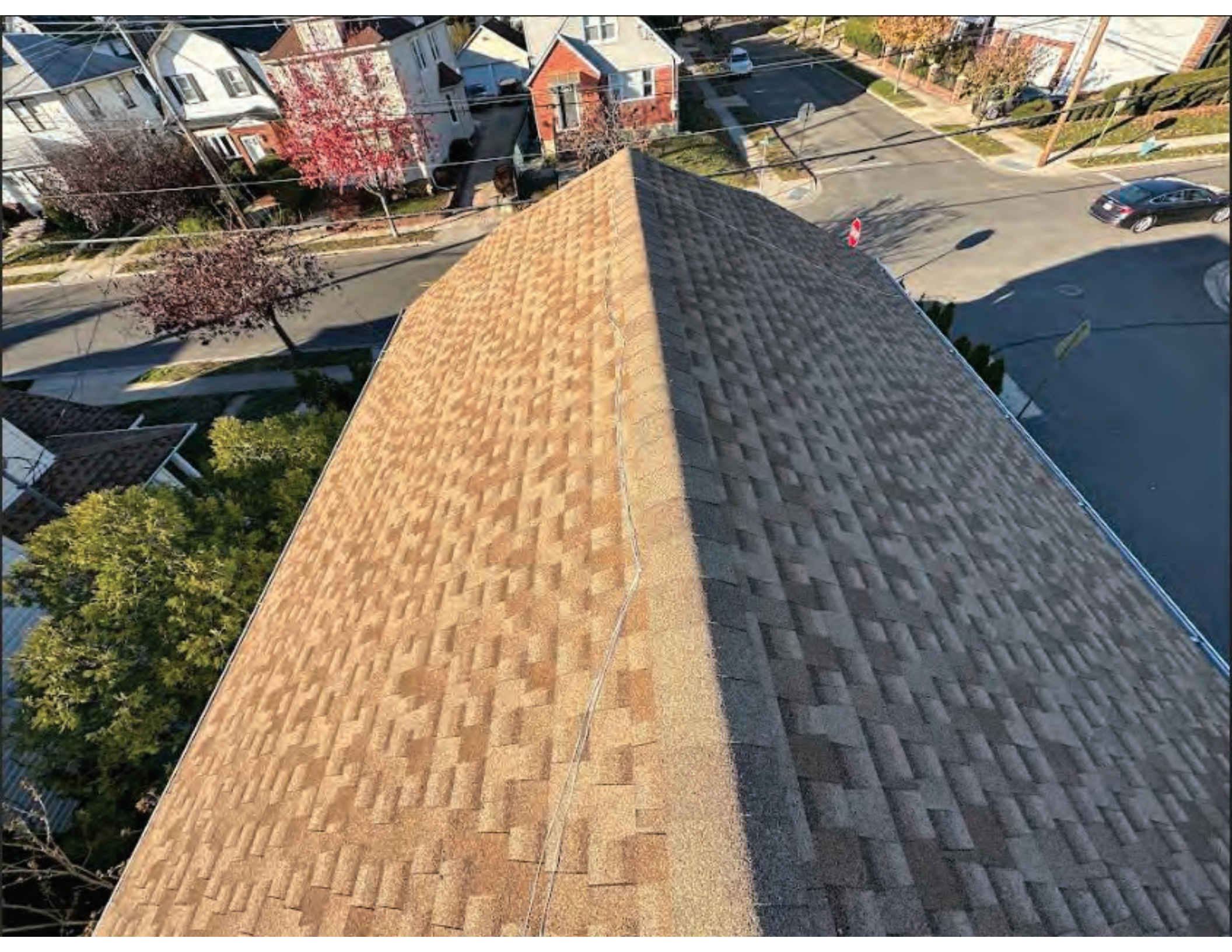
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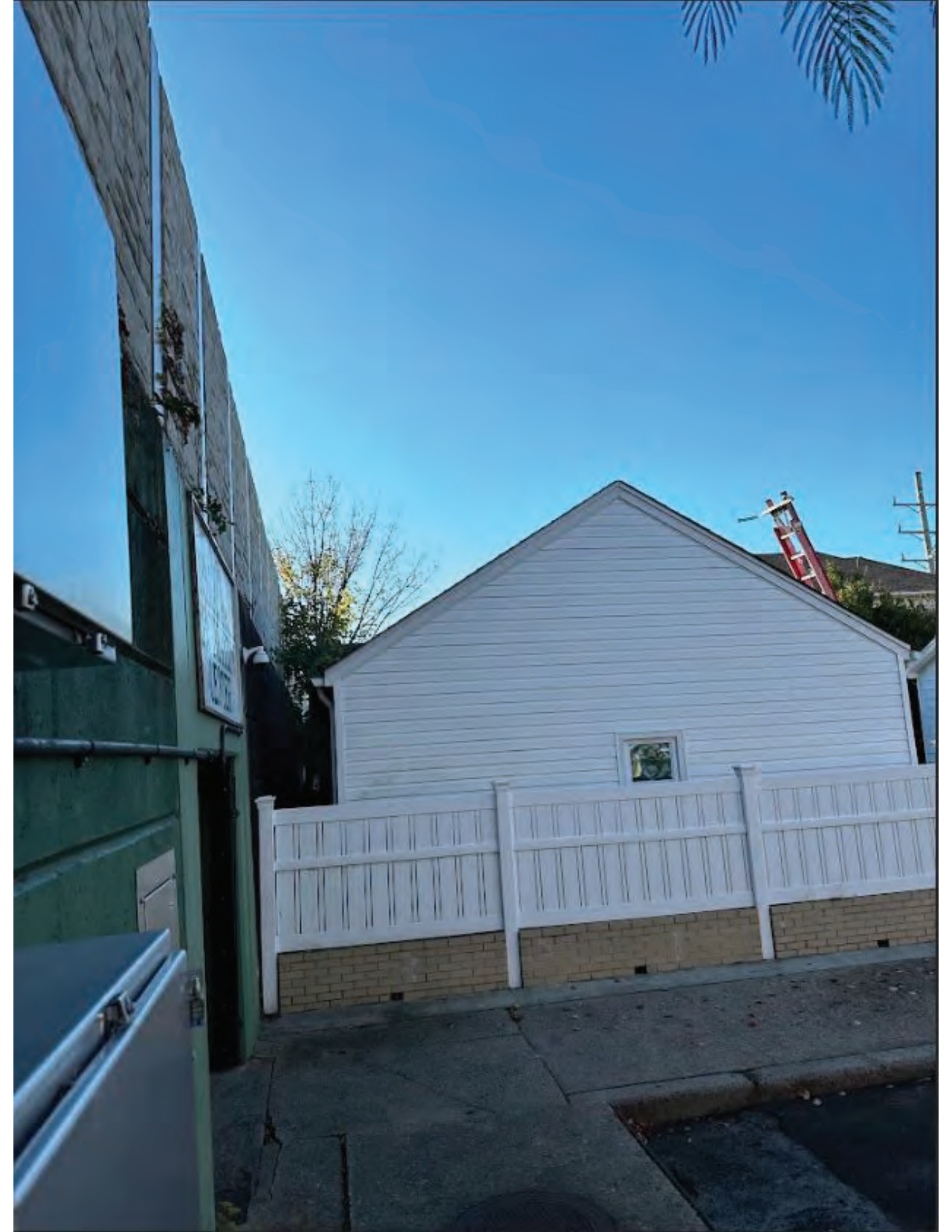


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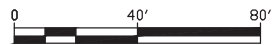
Location Map

ROOF MATERIAL:	COMPOSITE SHINGLE
ARRAY A	
NUMBER OF MODULES:	8
TOTAL MOD. WEIGHT (lbs):	329.6
RACKING WEIGHT (lbs):	138.16
ARRAY WEIGHT (lbs):	467.76
ARRAY AREA (sqft):	144
ARRAY DEAD LOAD (lbs/sqft):	2.4
NUMBER OF MOUNTS:	24
LOAD PER MOUNT(lbs):	19.49
ARRAY B	
NUMBER OF MODULES:	8
TOTAL MOD. WEIGHT (lbs):	329.6
RACKING WEIGHT (lbs):	138.16
ARRAY WEIGHT (lbs):	467.76
ARRAY AREA (sqft):	144
ARRAY DEAD LOAD (lbs/sqft):	2.4
NUMBER OF MOUNTS:	24
LOAD PER MOUNT(lbs):	19.49

APPLICABLE CODES:
NOTES TO INSTALLER:
2020 NYS EXIST. BUILDING CODE
2020 NYS FIRE CODE
2020 NYS RESIDENTIAL CODE
2020 NYS PLUMBING CODE
2020 NYS ENERGY CONSERVATION CODE
2017 NATIONAL ELECTRICAL CODE
CONTRACTOR INFORMATION:
EZ ELECTRIC POMONA
9 DARIEN COURT
POMONA, NY 10970

LOT DIAGRAM

SCALE: 1" = 40'

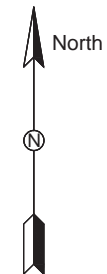
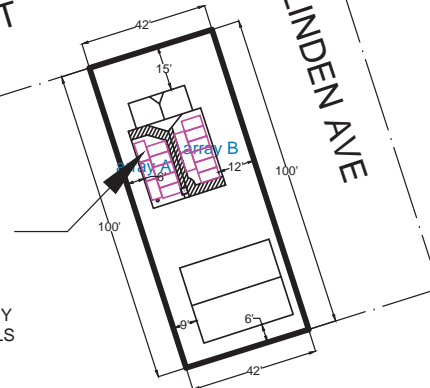




96 CHARLES ST,
FLORAL PARK, NY 11001

CHARLES ST

LINDEN AVE

DETACHED
2 STORY BUILDING
(25' -1" IN HEIGHT)
PROPOSED ROOF
MOUNTED SOLAR ENERGY
INSTALLATION (16) PANELS
TOTAL SYSTEM 6.24 KW



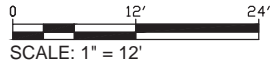
No.	Revision/Issue	Date
		
<small>AMERGY SOLAR 100 PROSPECT ST METUCHEN, NJ 08840 WWW.AMERGYSOLAR.COM</small>		
OWNER: WING CHUNG		
PROJECT Residential Rooftop Grid-tied Solar PV System 96 CHARLES ST, FLORAL PARK, NY 11001		
R. A. SEAL		
SHEET TITLE LOT DIAGRAM		
SCALE	1"=40'	DWG#
DATE	12/04/2022	A-001.00
JOB #	225447	1 OF 6

Canadian Solar CS3N-390MS panels are to be installed. Each solar panel has a dimension about 61.4"x41.2"x1.8" and weighs approximately 41 lb. each. The supporting racking system is Solar Mount by UniRac located at 1411 Broadway Boulevard NE Albuquerque NM 87102-1545.

Installation Notes:

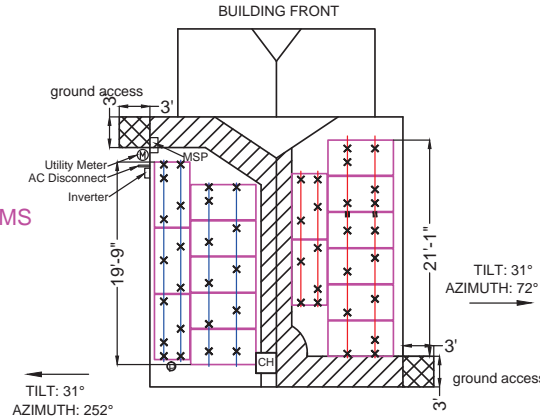
1. Each module will be securely fastened at a minimum 4 points (7mm x 11.5mm) using Solar Mount by UniRac. That is at least two points along each long side of the panel. It is important that the clip centerlines are between 1/4 and 3/4 from the end of the module;
2. All fasteners shall be stainless steel or galvanized steel and other components of the racking system shall be made of galvanized or stainless steel or aluminum;
3. Follow manufacture mounting instruction strictly.
4. Stainless lag bolts shall be used to fasten the racking system to the roof rafters and they need to be minimum 5/16" shaft and 3" long.
5. Lag bolts spacing shall be no more than 48" O.C. along the direction of the racking system. Lag bolts should be installed staggered, that is, the lag bolts at every other rail should be staggered by 24" so they are fastened into alternating rafters.
6. Thread must be embedded in the side grain of a rafter.
7. Lag bolts must be located in the middle third of the structural member.
8. Install lag bolts with head and washer flush to surface. Do not over-torque.
9. Proper water proofing and proper sealant shall be applied at every penetration.

PANEL FRAMING PLAN



16 Canadian Solar CS3N-390MS

- (4) 20ft rail ---
- (6) 14ft rail ---
- (2) SPLICE
- (48) L FOOT PLACEMENT



No.	Revision/Issue	Date



AMERGY SOLAR
100 PROSPECT ST
METUCHEN, NJ 08840
WWW.AMERGYSOLAR.COM

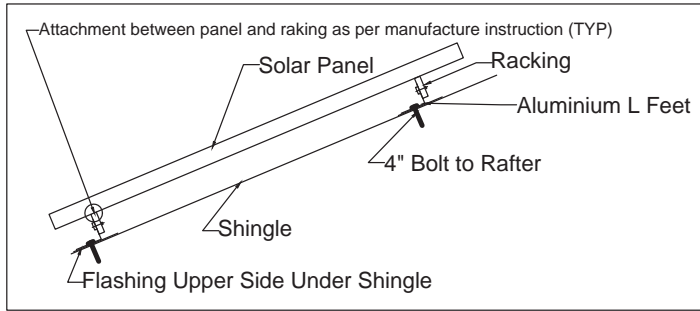
OWNER: WING CHUNG
PROJECT
Residential Rooftop Grid-tied Solar PV System
96 CHARLES ST.
FLORAL PARK, NY 11001

R. A. SEAL



SHEET TITLE		PANEL DETAILS	
SCALE	1"=12'	DWG#	A-002.00
DATE	12/04/2022		
JOB #	225447		2 OF 6

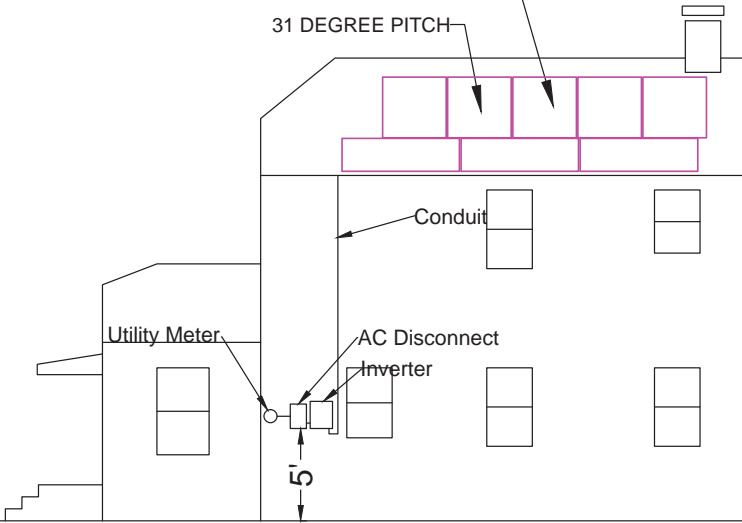
Details of mounting, anchoring, waterproofing of panels.



Note: Total Solar Sytem is 6.185" High off Roof.

PROPOSED ROOF MOUNTED SOLAR ENERGY INSTALLATION (16) PANELS

31 DEGREE PITCH



WEST ELEVATION

No.	Revision/Issue	Date



AMERGY SOLAR
100 PROSPECT ST
METUCHEN, NJ 08840
WWW.AMERGYSOLAR.COM

OWNER: WING CHUNG

PROJECT
Residential Rooftop Grid-tied Solar PV System
96 CHARLES ST,
FLORAL PARK, NY 11001

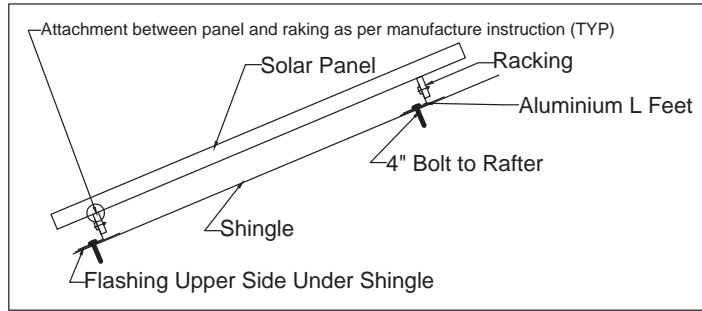
R. A. SEAL



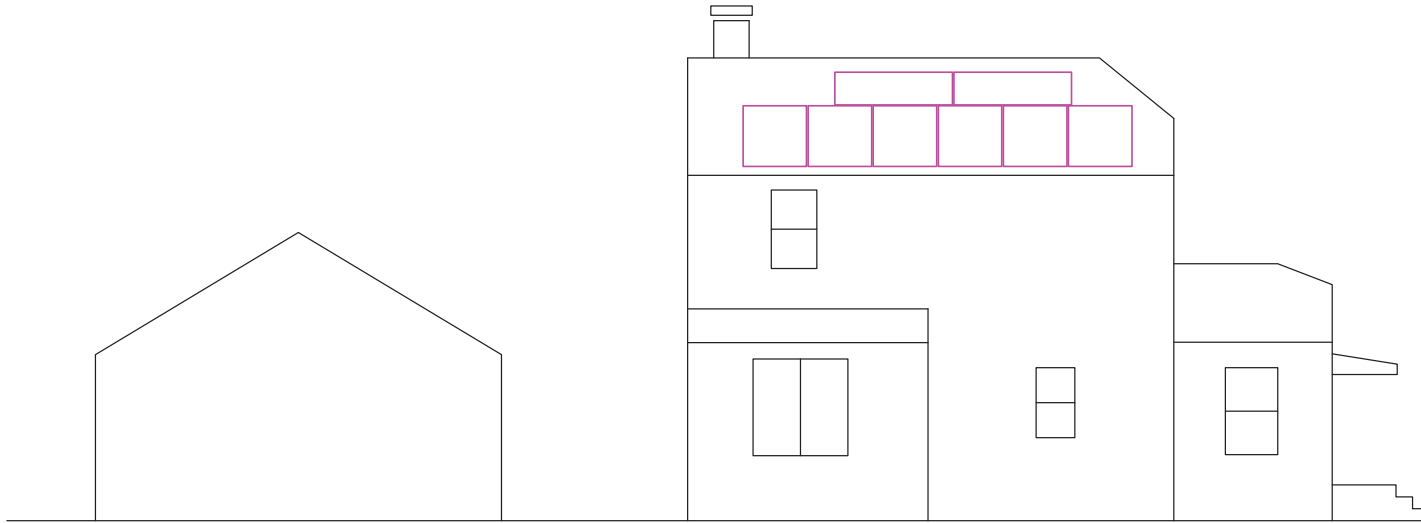
SHEET TITLE EXTERIOR ELEVATION

SCALE	NTS	DWG#
DATE	12/04/2022	A-003.00
JOB #	225447	3 OF 6

Details of mounting, anchoring, waterproofing of panels.



Note: Total Solar Sytem is 6.185"
High off Roof.



EAST ELEVATION

No.	Revision/Issue	Date



AMERGY SOLAR
100 PROSPECT ST
METUCHEN, NJ 08840
WWW.AMERGYSOLAR.COM

OWNER: WING CHUNG
PROJECT
Residential Rooftop Grid-tied Solar PV System
96 CHARLES ST.,
FLORAL PARK, NY 11001

R. A. SEAL



SHEET TITLE		EXTERIOR ELEVATION
SCALE	NTS	DWG#
DATE	12/04/2022	A-004.00
JOB #	225447	4 OF 6

NEC 690.17(4)

⚡ WARNING ⚡
ELECTRIC SHOCK HAZARD
 DO NOT TOUCH TERMINALS
 TERMINALS ON BOTH THE LINE
 AND LOAD SIDES MAY BE
 ENERGIZED IN THE OPEN POSITION

Service Panel - AC Disconnect

NEC 690.35(F)

⚡ WARNING ⚡
ELECTRIC SHOCK HAZARD
 THE DC CONDUCTOR OF THIS
 PHOTOVOLTAIC SYSTEM ARE
 UNGROUNDED AND MAY BE
 ENERGIZED

Combiner box - Junction box

NEC 690.64, 705.12(4)

⚡ WARNING ⚡
DUAL POWER SUPPLY
 SOURCES: UTILITY GRID
 AND PHOTOVOLTAIC SYSTEM

Service Panel

AFFIX B.I.S STICKER HERE

DOB STAMP

A	FOR SUBMITTAL	
No.	Revision/Issue	Date



AMERGY SOLAR
 100 PROSPECT ST
 METUCHEN, NJ 08840
 WWW.AMERYGSOLAR.COM

OWNER: WING CHUNG
 PROJECT
 Residential Rooftop Grid-tied Solar PV System
 96 CHARLES ST.
 FLORAL PARK, NY 11001



SHEET TITLE		SAFETY LABELS	
SCALE	NTS	DWG#	A-005.00
DATE	12/04/2022	JOB #	225447
			5 OF 6

NEC 690.14(2)

**PHOTOVOLTAIC SYSTEM
 DISCONNECT**

Main Solar Disconnect

NEC 690.14(2)

AC DISCONNECT

AC Disconnect

NEC 690.14(2)

SOLAR BREAKER

Main Service Panel

NEC 690.4(F), 690.31(E)(4)

CAUTION SOLAR CIRCUIT

Conduit every 10' and 3' from boxes

NEC 690.56

**DO NOT RELOCATE THIS
 OVERCURRENT DEVICE**

Main Service Panel

NEC 690.5(C)

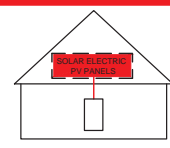
⚡ WARNING ⚡
ELECTRIC SHOCK HAZARD
 IF GROUND FAULT IS INDICATED
 ALL NORMALLY GROUNDED
 CONDUCTOR MAY BE
 UNGROUNDED AND ENERGIZED

Inverter or near GFI reset

NEC690.56(C)

**SOLAR PV SYSTEM IS EQUIPPED
 WITH RAPID SHUTDOWN.**

TURN RAPID SHUTDOWN
 SWITCH TO THE
 "OFF" POSITION TO SHUT
 DOWN PV SYSTEM AND
 REDUCE SHOCK HAZARD
 IN THE ARRAY.



NEC 690.53

**⚡ PHOTOVOLTAIC SYSTEM
 DC DISCONNECT ⚡**
 Maximum DC Voltage Vdc
 Nominal Operating Voltage Vdc
 Maximum DC Current Adc
 Nominal Operating Current Adc

DC Disconnect

NEC 690.54

**⚡ PHOTOVOLTAIC SYSTEM
 AC DISCONNECT ⚡**
 OPERATING VOLTAGE VOLTS
 OPERATING CURRENT AMPS

AC Disconnect

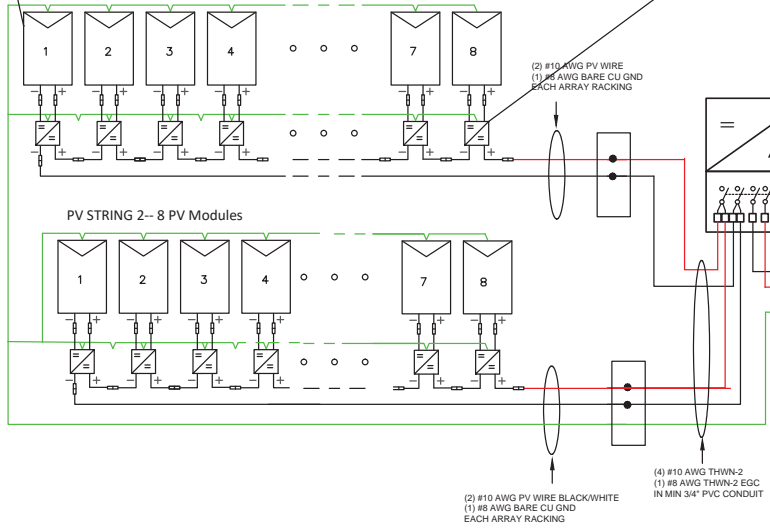
PV SYSTEM WITH (16) CANADIAN SOLAR CS3N-390MS SOLAR MODULES

PV Modules = 390 Watts STC
16 Modules = 6240 watts STC

SolarEdge Power Optimizer
S440
Rated DC Input Power - 440 watts
Maximum Input Voltage - 48 Vdc
MPPT Range - 8 to 48 Vdc
Maximum Input Current - 13.75 Adc
Maximum Output Current - 15 Adc
8 to 25 PV Modules
5700 watts STC per string maximum

PV STRING 1--- 8 PV Modules

PV STRING 2-- 8 PV Modules



INVERTER HAS RAPID SHUTDOWN AS STANDARD FEATURE

SolarEdge SE5000H-US Inverter with RGM
98% CEC Efficiency @ 240 Vac
5000 Wac continuous
Maximum Output Current 24 Adc
Maximum Input Current 16.5 Adc
Ground fault protection provided per NEC article 690.35
SolarEdge AC/DC Safety Switch
350 Vac to Gnd, 32 amps continuous
500 Vdc to Gnd, 32 amps continuous
Opens all ungrounded conductors per NEC article 690.35

NEMA 3R
2 POLE AC Disc
60 AMP
WITH 30A FUSES
WITHIN 10 FT OF THE POINT WHERE THE ELECTRIC POWER PRODUCTION SOURCE CONDUCTORS ARE CONNECTED TO THE SERVICE.

120/240 Vac 1PH
UTILITY METER#98457263
PSEG # 5157454605

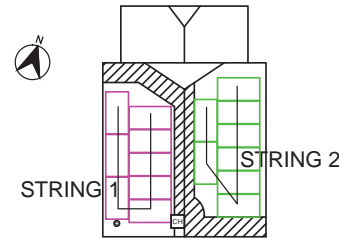
BACK FEED THRU 40AMP BR AT BOTTOM IN MSP
#8 AWG GEC CONNECT TO THE GROUNDING BAR IN MSP

120/240 Vac
200 AMP
MAIN SERVICE
SINGLE PHASE

(3) #6 AWG THWN-2
(1) #8 AWG THWN-2 GND
IN MIN 1" EMT CONDUIT

(2) #10 AWG PV WIRE BLACK/WHITE
(1) #8 AWG BARE CU GND
EACH ARRAY RACKING

(4) #10 AWG THWN-2
(1) #8 AWG THWN-2 EGC
IN MIN 3/4" PVC CONDUIT



NOTE: WIRES EXPOSED WILL BE PHYSICALLY PROTECTED IN CONDUIT/RACEWAY

COMPONENTS SHALL BE LABELED ACCORDING TO NEC

#8 BRAIDED COPPER GROUNDING CONDUCTOR BONDED TO BUILDING ELECTRICAL GROUNDING SYSTEM

SYSTEM INFORMATION:

6.24KW PV SYSTEM (16 MODULES)

AC Output Current= 24A

OCPD=24*125%=30A

Nominal AC Voltage=240V

Fuse=30A

MODULE INFORMATION:

P=390W

Vmp=36.8V

Imp=10.6A

Voc=44.1V

Isc=11.38A

SYSTEM LABELS

Maximum DC Voltage = 500 Vdc

Nominal Operating Voltage = 350 Vdc

Maximum DC Current = 14.2 Adc per string

Nominal Operating Current = 17.8 Adc

AFFIX B.I.S STICKER HERE

DOB STAMP

A	FOR SUBMITTAL	
No.	Revision/Issue	Date



AMERGY SOLAR
100 PROSPECT ST
METUCHEN, NJ 08840
WWW.AMERGYSOLAR.COM

OWNER: WING CHUNG

PROJECT

Residential Rooftop Grid-tied Solar PV System

96 CHARLES ST.
FLORAL PARK, NY 11001



SHEET TITLE 3 LINE DIAGRAM

SCALE NTS DWG#

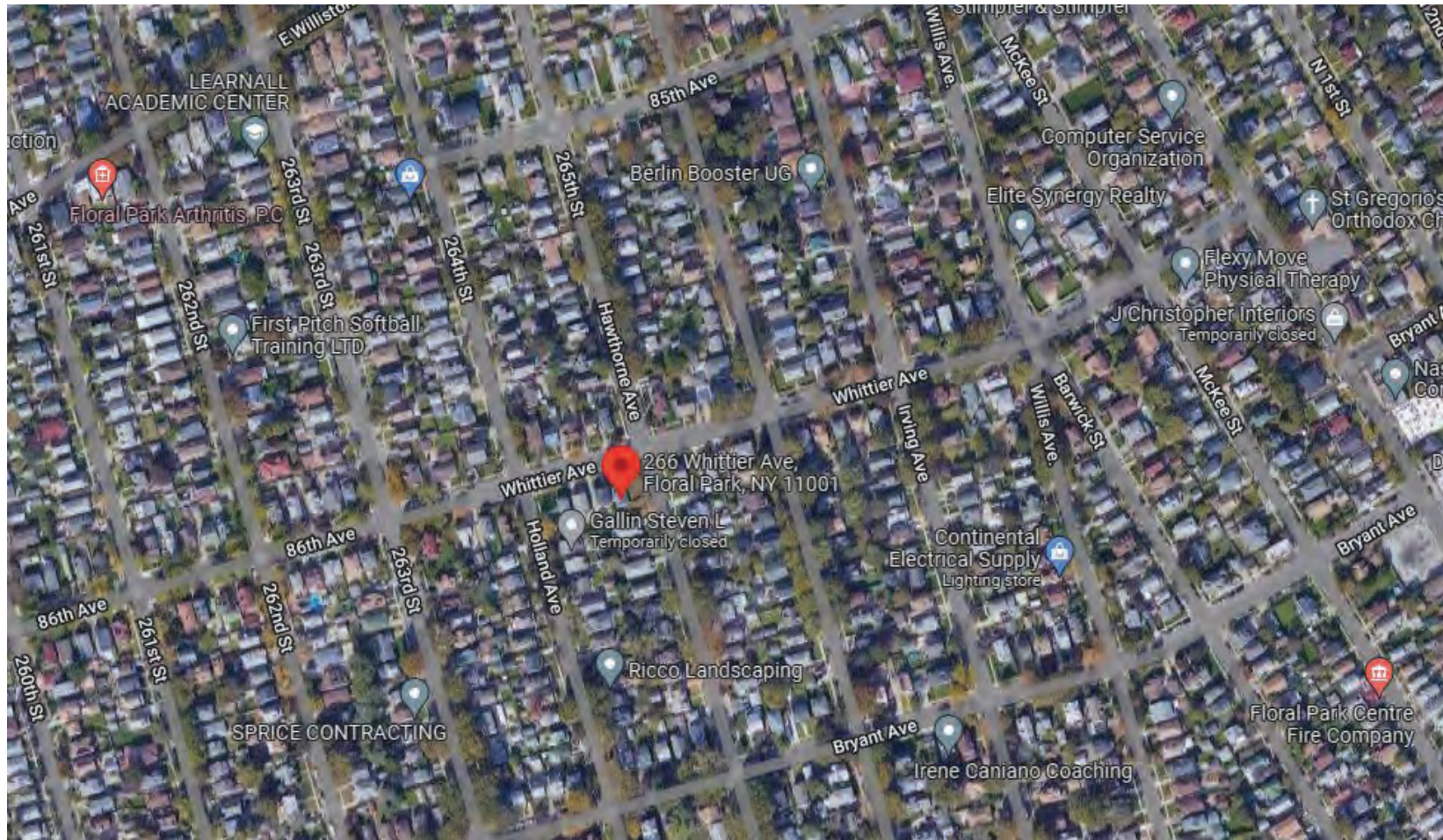
DATE 12/04/2022 E-001.00

JOB # 225447 6 OF 6

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
8	8:35 p.m.	266	Whittier Avenue	Re-submission – Brick Color Change	Rajinder Kaur	M. Azeem PE



266 Whittier Avenue (Aerial View)





266











WHITTIER AVE
THORNE AV







PREVIOUS SUBMISSION



Belden Brick Belcrest 760 Simula
Spaulding Brick



Q simulated belcrest 760 brick houses

PREVIOUS SUBMISSION

BELDEN

THE BELDEN BRICK COMPANY

P.O. BOX 20910
CANTON, OHIO 44701-0910
(330) 456-0031

ISO 9001 & ISO 14001
Compliant Quality Management System

Modular
Belcrest 560
18-31, other

