January 03, 2022

Ed Marron,
Building inspector
Village of Irvington
Village Hall
85 Main Street
Irvington, NY 10533

Parganos Residence
BP No. 361 (90 Fargo Lane, Irvington NY)
Revisions to ARB Approved Roof Plan

Mr. Marron & Members of the Architectural Review Board,

Attached please find a proposed modification to the project at 90 Fargo Lane which is currently under construction and was submitted and approved by ARB in February of 2021. This submission is limited to the proposed addition of solar panels to the flat roofs.

We have placed the collectors in an organized way according to the village's current guidelines. The racking system with panels installed at a 5 degree angle, will extend above the surface of the roof by 7 1/2" at its tallest point. In locations where there is no parapet or where the installation will extend slightly above the parapet, units have been offset from the edge of the roof or the parapet at a ratio of 1:4 as per the guidelines. Other than the collectors and the associated racking system, there will be no solar energy equipment, cabling or conduit on the exterior of the building.

We have included renderings east side of the proposed project from Fargo lane. The solar panels are not visible from these vantage points.

Please let me know if you or your consultants have any questions or concerns, and feel free to contact me at (914) 591-5066 or via email at jmalone@fergusonmalone.com.

Sincerely,

John Malone, AIA LEED AP

Enc: A -2.03.1 Solar Panel Plan – dated 01/03/2022
Solar Panel Specification Information
Rendering of Exterior Elevations
Mailing Notice and Proof of Mailing

cc: ETA Fargo, LLC - Sara Parganos-Account Manager
File

FERGUSON MALONE ARCHITECTURE

January 03, 2022

To: Neighbors of 90 Fargo Lane
Via: Certified Mail
RE: Application for Architectural Review Board Approval
90 Fargo Lane

PLEASE TAKE NOTICE that the applicant named below is requesting the Architectural Review Board of the Village of Irvington to grant, in accordance with Section 9-12 of the Village Code for improvements to be made on property identified by parcel identification #: 2.20-3-5 and 2.20-3-6. This property is located at 90 Fargo Ln, Irvington. The site adjoins property owned by or the current resident:

- Deroos, Barbara M. (88 Fargo Ln.; 2.20-3-3)
- Kim, Inok (92 Fargo Ln; 2.20-3-4)
- Silverberg, Shonni J. (95 Fargo Ln; 2.20-3-7)
- Franks, Jason (95 Fargo Ln; 2.20-4-24)
- Schoenfarber, Jay (96 Fargo Ln; 2.20-4-22)

The following is a brief description of the property development for which Site Development Plan Approval is being requested.

Installation of solar equipment

A copy of the Application, together with the plans or details of the proposed work has been deposited in the office of the Village Clerk and in the Irvington Public Library and may be examined by the public during regular business hours one week prior to the scheduled meeting.

It is expected that the Application will be considered by the Architectural Review Board at a meeting which begins at 8:00 PM on January 24, 2022. Due to Covid-19 precautions, the meetings are being conducted virtually. A link will be available in the calendar entry for the meeting on the village website.

This notice is given pursuant to Section 9-12 of the Village of Irvington.

John Malone, AIA LEED AP

ONE BRIDGE STREET, IRVINGTON NY | T: 914·591·5066 | F: 914·591·5031 | WWW.FERGUSONMALONE.COM

ETA FARGO LLC
90 FARGO LN
IRVINGTON, NY 10533

SILVERBERG, SHONNI J
95 FARGO LN
IRVINGTON, NY 10533

ETA FARGO LLC
FARGO LN
IRVINGTON, NY 10533

KIM, INOK
92 FARGO LN
IRVINGTON, NY 10533

DEROOS, BARBARA M
88 FARGO LN
IRVINGTON, NY 10533

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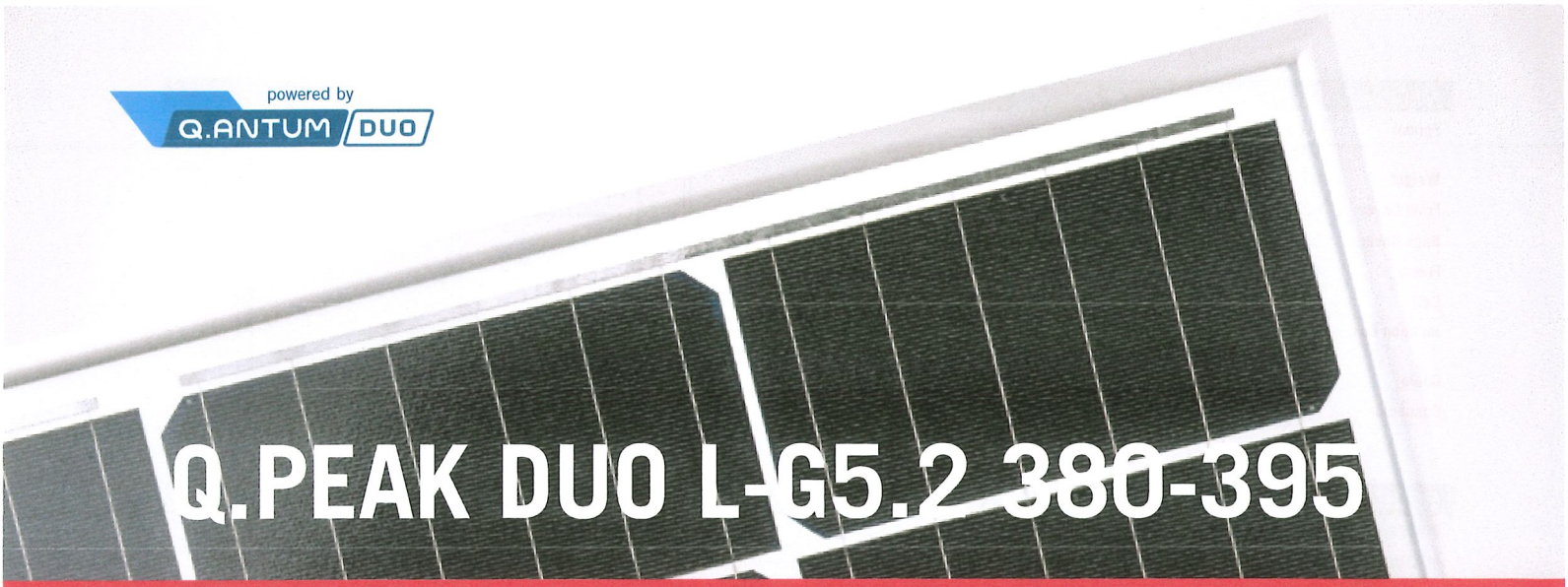
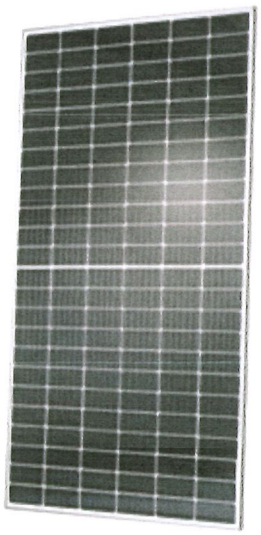
powered by Q.ANTUM DUO



Q.PEAK DUO L-G5.2 380-395

Q.ANTUM SOLAR MODULE

The new high-performance module Q.PEAK DUO L-G5.2 is the ideal solution for commercial and utility applications thanks to a combination of its innovative cell technology Q.ANTUM and cutting edge cell interconnection. This 1500 V IEC/UL solar module with its 6 busbar cell design ensures superior yields with up to 395 Wp while having a very low LCOE.



LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.9 %.

INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.

ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID Technology[1], 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 (2400 Pa).

A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance warranty[2].

EUPD RESEARCH TOP BRAND PV MODULES EUROPE 2018

Q CELLS YIELD SECURITY
- ANTI PID TECHNOLOGY (APT)
- HOT-SPOT PROTECT (HSP)
- TRACEABLE QUALITY (TRA.Q™)
- ANTI LID TECHNOLOGY (ALT)

pv magazine award 2017 top innovation

Photon
Q CELLS
Best polycrystalline solar module 2014
Q.PRO-G2 235
174 modules tested

[1] APT test conditions according to IEC/TS 62804-1:2015, method B (–1500 V, 168 h)

[2] See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:

Rooftop arrays on commercial/industrial buildings

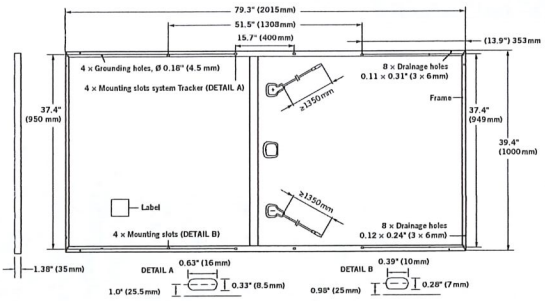
Ground-mounted solar power plants

Engineered in **Germany**

Q CELLS

MECHANICAL SPECIFICATION

Format	79.3 in × 39.4 in × 1.38 in (including frame) (2015 mm × 1000 mm × 35 mm)
Weight	51.8 lbs (23.5 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Anodized aluminum
Cell	6 × 24 monocrystalline Q.ANTUM solar half-cells
Junction box	2.76-3.35 in × 1.97-2.76 in × 0.51-0.83 in (70-85 mm × 50-70 mm × 13-21 mm), Protection class IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥53.1 in (1350 mm), (–) ≥53.1 in (1350 mm)
Connector	Multi-Contact MC4-EVO2, JMTHY PV-JM601A, IP68 or Renhe 05-6, IP67

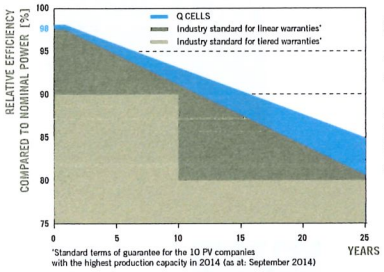


ELECTRICAL CHARACTERISTICS

POWER CLASS				380	385	390	395
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC[1] (POWER TOLERANCE +5 W / –0 W)							
Minimum	Power at MPP[1]	P_{MPP}	[W]	380	385	390	395
	Short Circuit Current[1]	I_{SC}	[A]	10.05	10.10	10.14	10.19
	Open Circuit Voltage[1]	V_{OC}	[V]	47.95	48.21	48.48	48.74
	Current at MPP	I_{MPP}	[A]	9.57	9.61	9.66	9.70
	Voltage at MPP	V_{MPP}	[V]	39.71	40.05	40.38	40.71
	Efficiency[1]	η	[%]	≥18.9	≥19.1	≥19.4	≥19.6
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT[2]							
Minimum	Power at MPP	P_{MPP}	[W]	283.9	287.6	291.3	295.1
	Short Circuit Current	I_{SC}	[A]	8.10	8.14	8.17	8.21
	Open Circuit Voltage	V_{OC}	[V]	45.12	45.37	45.62	45.87
	Current at MPP	I_{MPP}	[A]	7.53	7.57	7.60	7.64
	Voltage at MPP	V_{MPP}	[V]	37.69	38.01	38.33	38.64

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

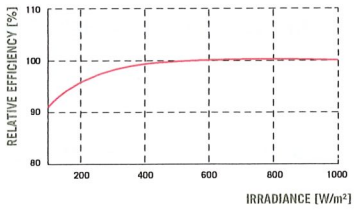
Q CELLS PERFORMANCE WARRANTY



At least 98 % of nominal power during first year.
Thereafter max. 0.54 % degradation per year.
At least 93.1 % of nominal power up to 10 years.
At least 85 % of nominal power up to 25 years.

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

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]	–0.28
Temperature Coefficient of P_{MPP}	γ	[%/K]	–0.37	Normal Operating Module Temperature	NMOT	[°F]	109 ±5.4 (43 ±3 °C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V_{SYS}	[V]	1500 (IEC) / 1500 (UL)	Safety Class	II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating	C (IEC) / TYPE 1 (UL)
Max. Design Load, Push / Pull (UL)[2]	[lbs/ft²]	75 (3600 Pa) / 33 (1600 Pa)	Permitted module temperature on continuous duty	–40 °F up to +185 °F (–40 °C up to +85 °C)
Max. Test Load, Push / Pull (UL)[2]	[lbs/ft²]	113 (5400 Pa) / 50 (2400 Pa)	[2] see installation manual	

QUALIFICATIONS AND CERTIFICATES

UL 1703; CE-compliant;
IEC 61215:2016, IEC 61730:2016 application class A

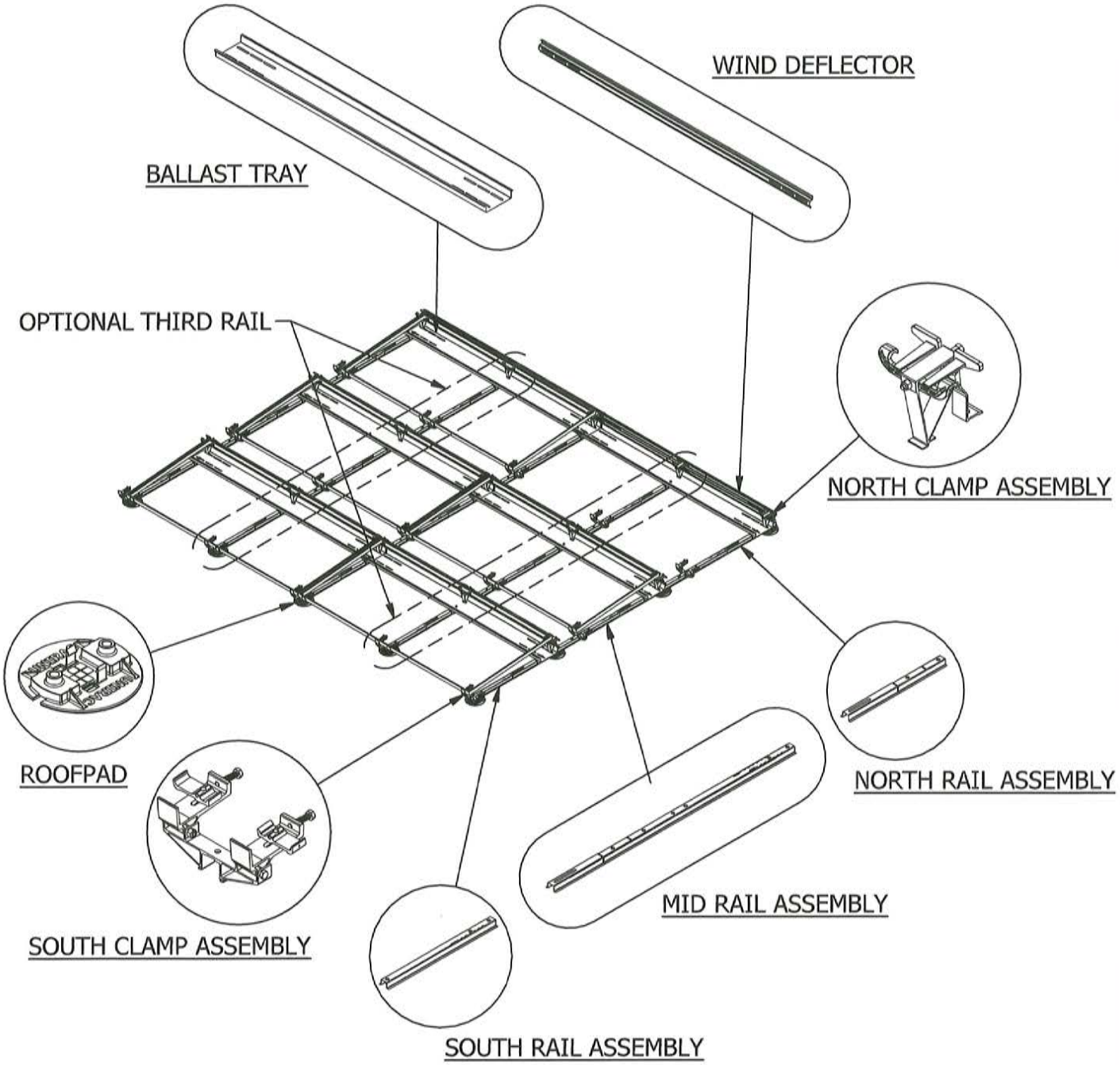
Certified UL 1703 (254141)

PACKAGING INFORMATION

Number of Modules per Pallet	29
Number of Pallets per 53' Trailer	26
Number of Pallets per 40' High Cube Container	22
Pallet Dimensions (L × W × H)	81.9 in × 45.3 in × 46.7 in (2080 mm × 1150 mm × 1185 mm)
Pallet Weight	1635 lbs (742 kg)

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.
300 Spectrum Center Drive, Suite 1250, Irvine, CA 92618, USA I TEL +1 949 748 59 96 I EMAIL inquiry@us.q-cells.com I WEB www.q-cells.us



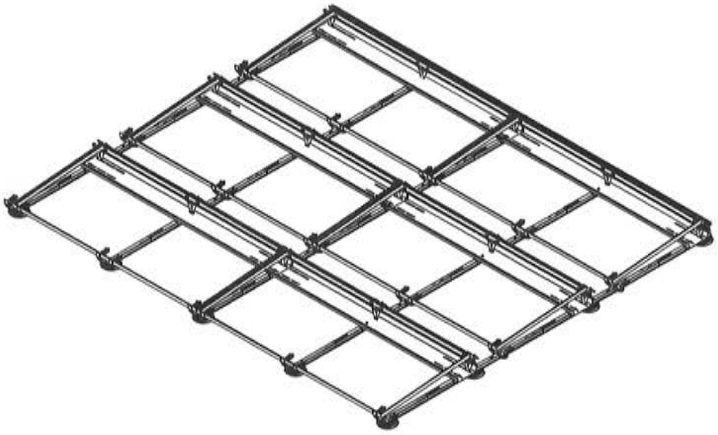
UNIRAC
1411 BROADWAY BLVD. NE
ALBUQUERQUE, NM 87102 USA
PHONE: 505.242.6411
WWW.UNIRAC.COM

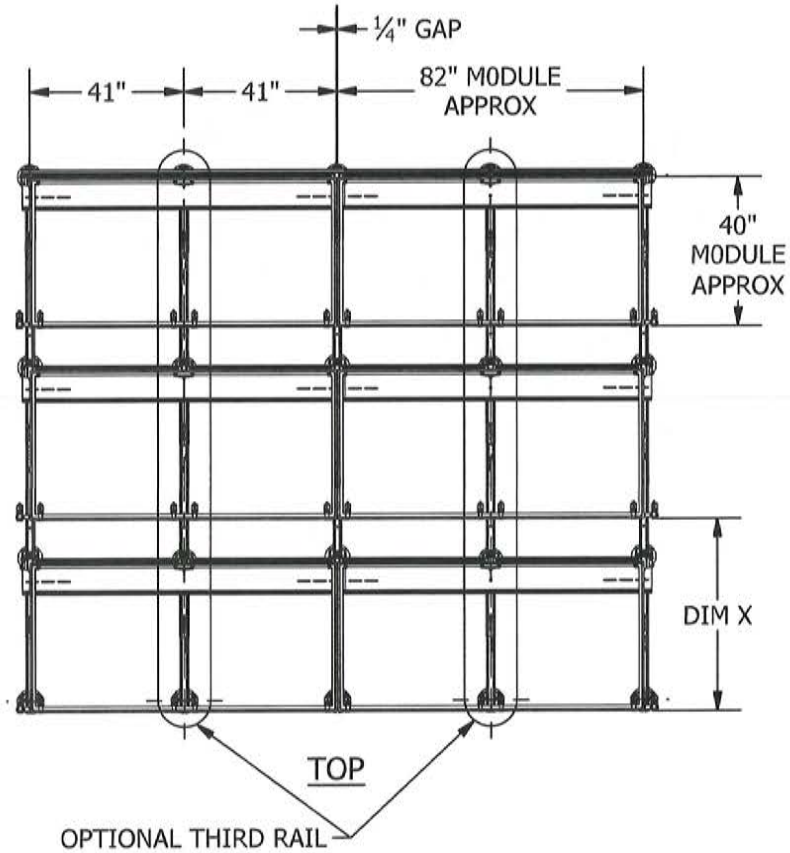
PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	ASSEMBLY
DESCRIPTION:	MODULE ASSEMBLY
REVISION DATE:	9/15/2021

DRAWING NOT TO SCALE
ALL DIMENSIONS ARE NOMINAL

GF-A01
SHEET

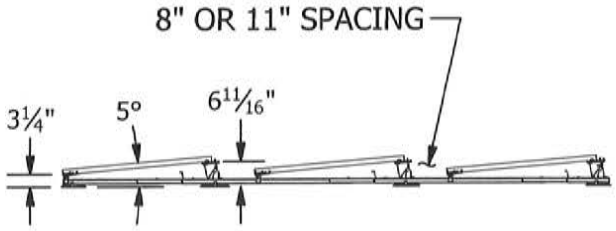
NOTE:
1. ARRAY DIMENSIONS WILL VARY BASED ON MODULE WIDTH & LENGTH.





MODULE WIDTH	SCALE SETTING	DIM "X" 8" ROW SPACING	DIM "X" 11" ROW SPACING
38-38.5"	38.5	46.42	49.42
38.51-39"	39	46.92	49.92
39.01-39.5"	39.5	47.42	50.42
39.51-40"	40	47.92	50.92
40.01-40.5"	40.5	48.42	51.42
40.51-41"	41	48.92	51.92
41.01-41.5"	41.5	49.42	52.42
41.51-42"	42	49.92	52.92
42.01-42.5"	42.5	50.42	53.42
42.51-43"	43	50.92	53.92
43.01-43.5"	43.5	51.42	54.42
43.51-44.65"	44	51.92	54.92

FRONT



RIGHT SIDE

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PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	ASSEMBLY
DESCRIPTION:	MODULE ASSEMBLY
REVISION DATE:	3/18/2021

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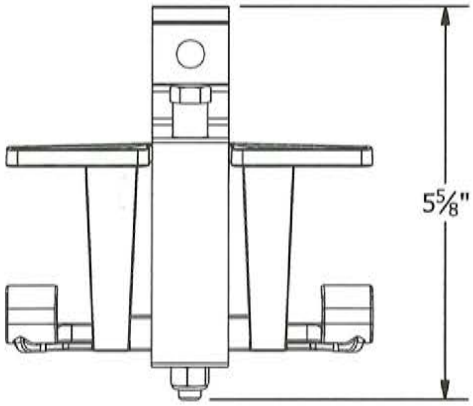
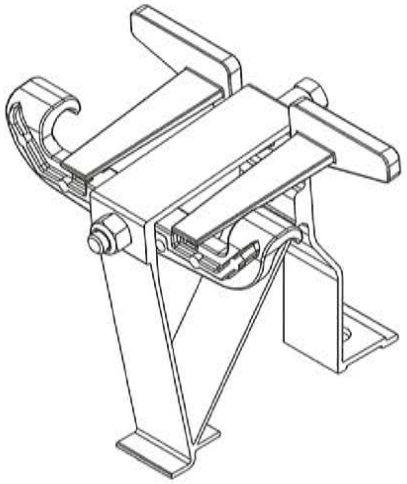
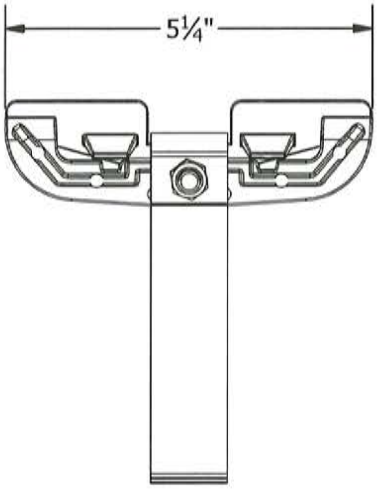
PRODUCT PROTECTED BY ONE OR MORE US PATENTS
LEGAL NOTICE

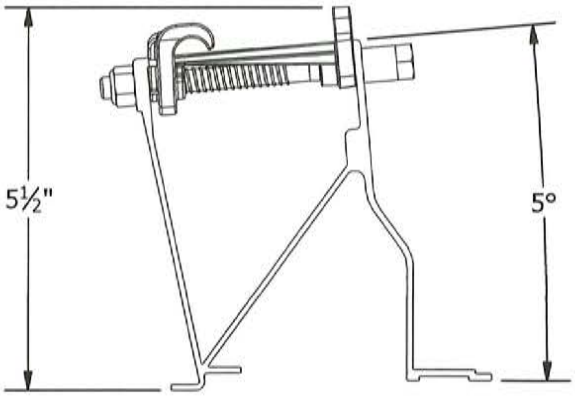
GF-A02
SHEET

PART # TABLE	
P/N	DESCRIPTION
360041	NORTH CLAMP ASSEMBLY









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WWW.UNIRAC.COM

PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	ASSEMBLY
DESCRIPTION:	NORTH CLAMP
REVISION DATE:	9/15/2021

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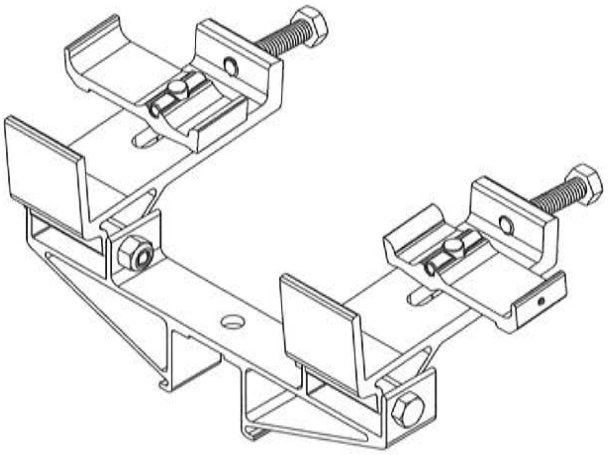
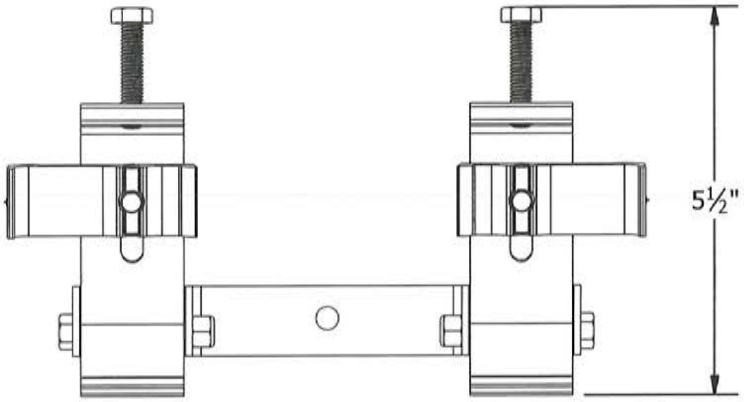
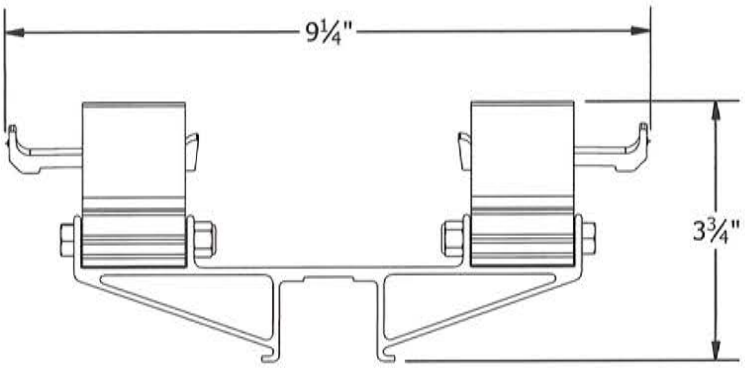
GF-A03

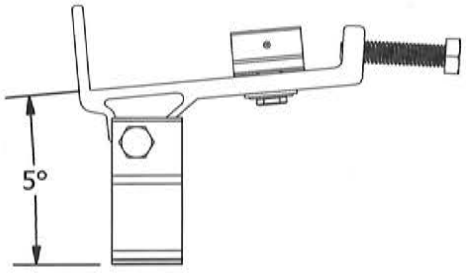
SHEET

PART # TABLE	
P/N	DESCRIPTION
360050	SOUTH CLAMP ASSEMBLY









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PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	ASSEMBLY
DESCRIPTION:	SOUTH CLAMP
REVISION DATE:	3/18/2021

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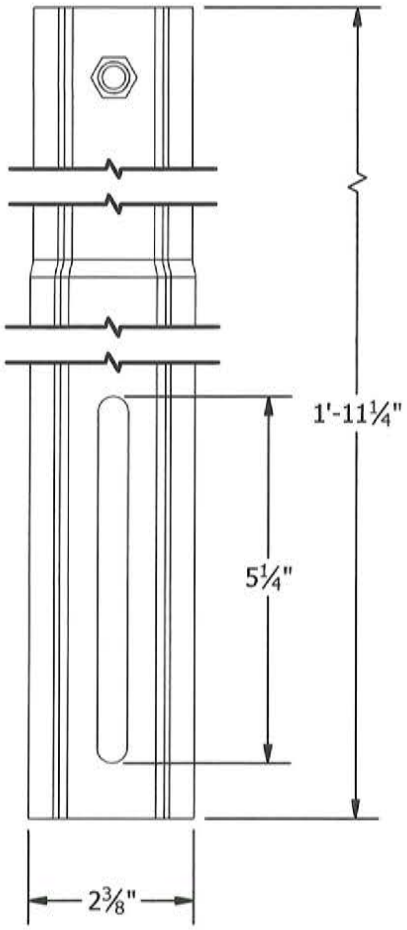
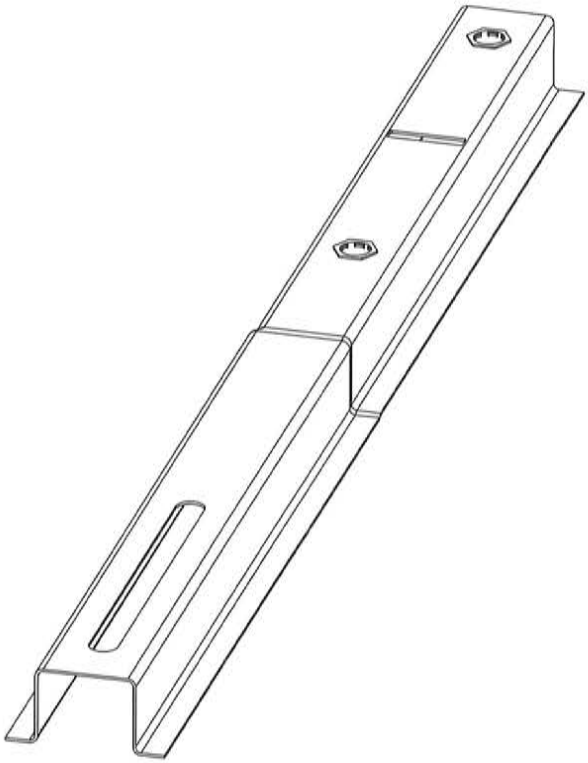
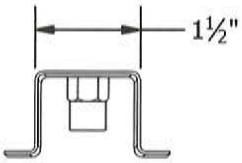
GF-A04

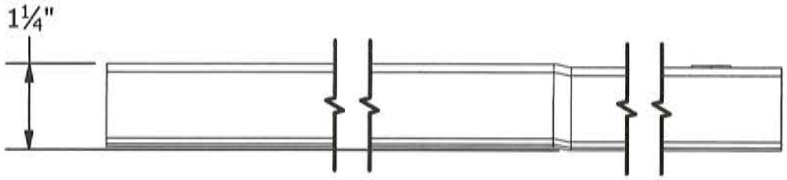
SHEET

PART # TABLE	
P/N	DESCRIPTION
360010	NORTH RAIL ASSEMBLY









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ALBUQUERQUE, NM 87102 USA
PHONE: 505.242.6411
WWW.UNIRAC.COM

PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	ASSEMBLY
DESCRIPTION:	NORTH RAIL
REVISION DATE:	1/25/2021

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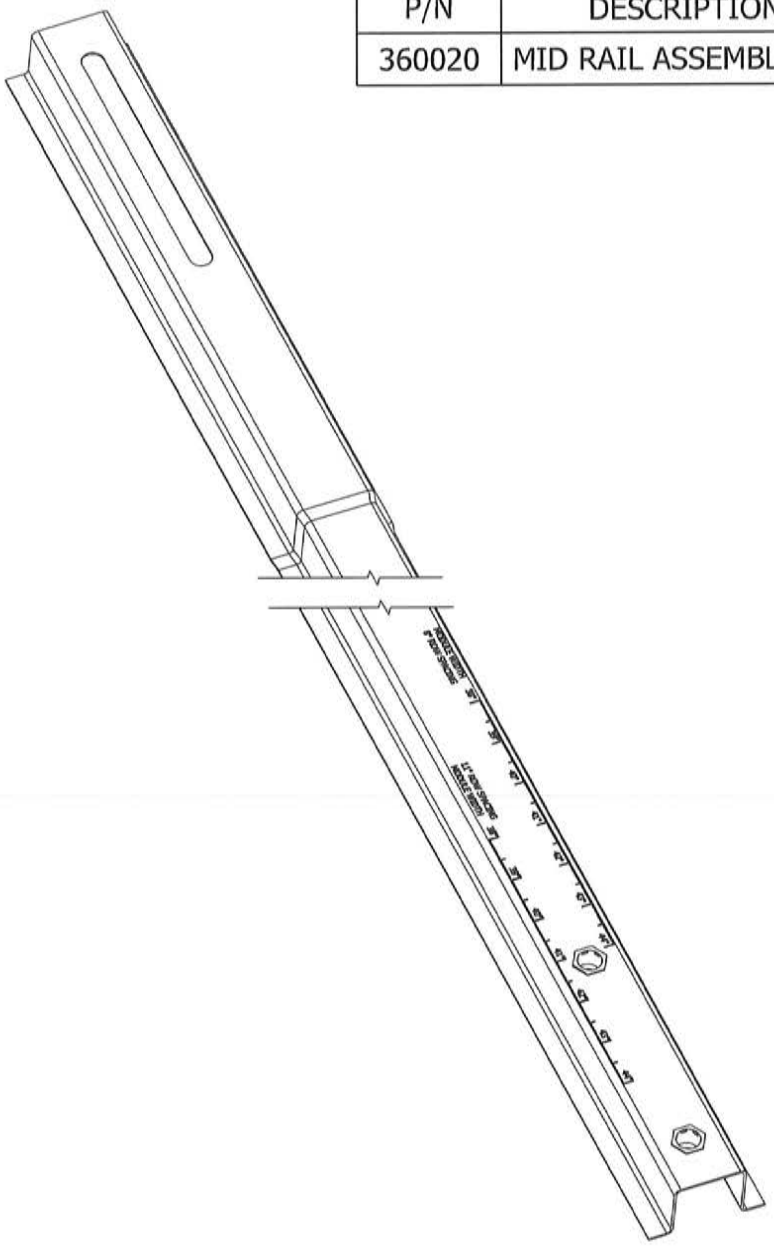
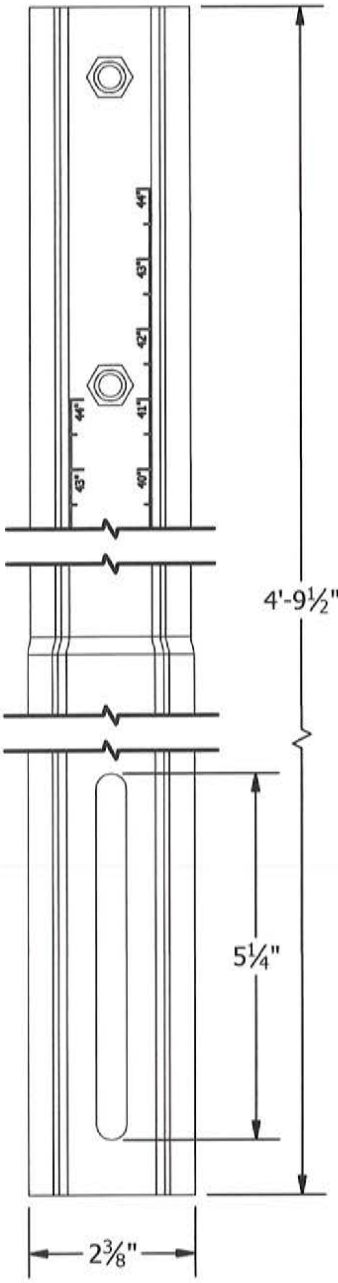
LEGAL NOTICE

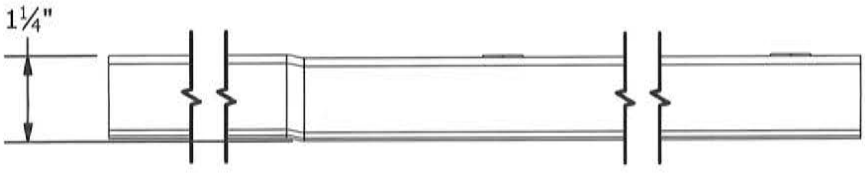
GF-A05

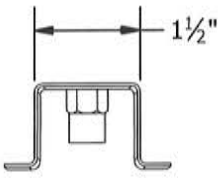
SHEET

PART # TABLE	
P/N	DESCRIPTION
360020	MID RAIL ASSEMBLY









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1411 BROADWAY BLVD. NE
ALBUQUERQUE, NM 87102 USA
PHONE: 505.242.6411
WWW.UNIRAC.COM

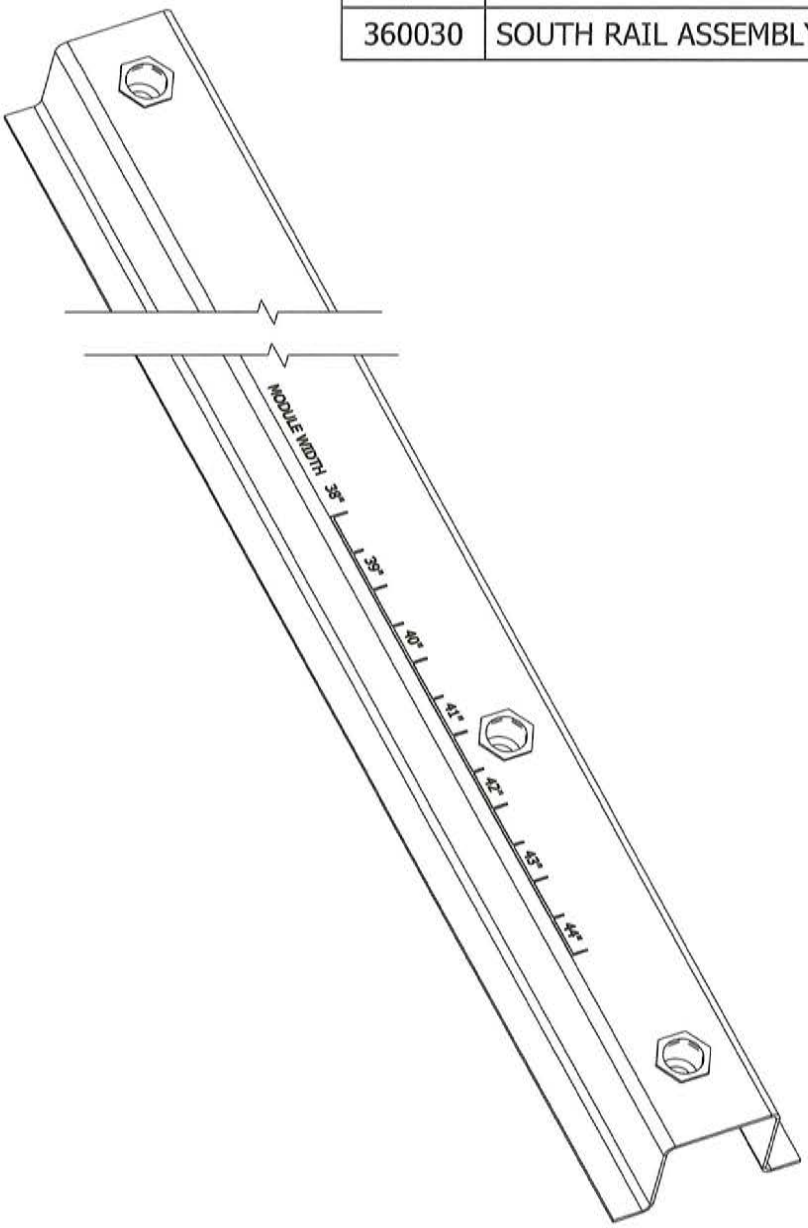
PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	ASSEMBLY
DESCRIPTION:	MID RAIL
REVISION DATE:	1/14/2021

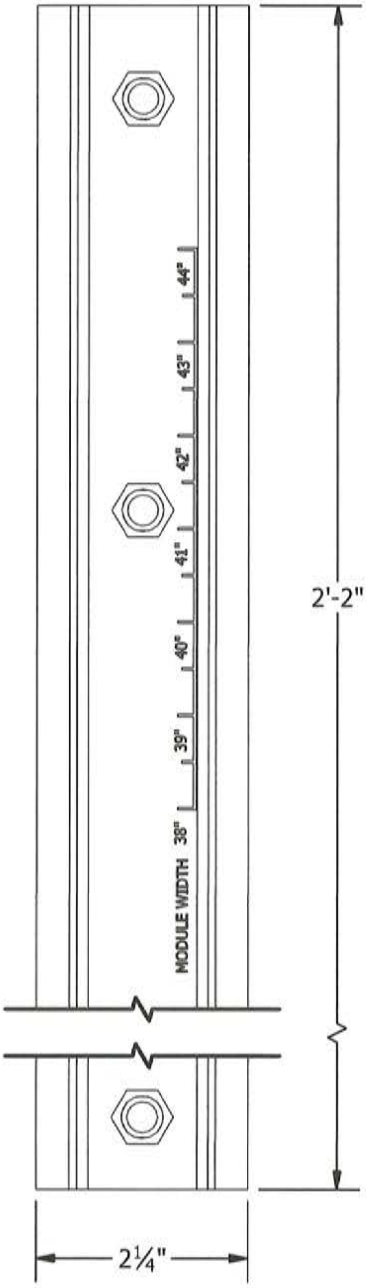
DRAWING NOT TO SCALE
ALL DIMENSIONS ARE NOMINAL

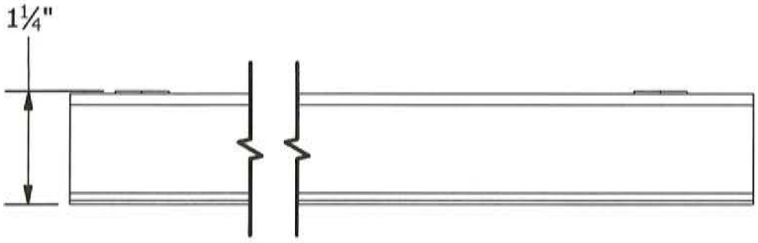
PRODUCT PROTECTED BY ONE OR MORE US PATENTS
LEGAL NOTICE

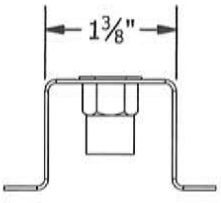
GF-A06
SHEET

PART # TABLE	
P/N	DESCRIPTION
360030	SOUTH RAIL ASSEMBLY









UNIRAC
1411 BROADWAY BLVD. NE
ALBUQUERQUE, NM 87102 USA
PHONE: 505.242.6411
WWW.UNIRAC.COM

PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	ASSEMBLY
DESCRIPTION:	SOUTH RAIL
REVISION DATE:	1/14/2021

DRAWING NOT TO SCALE
ALL DIMENSIONS ARE NOMINAL

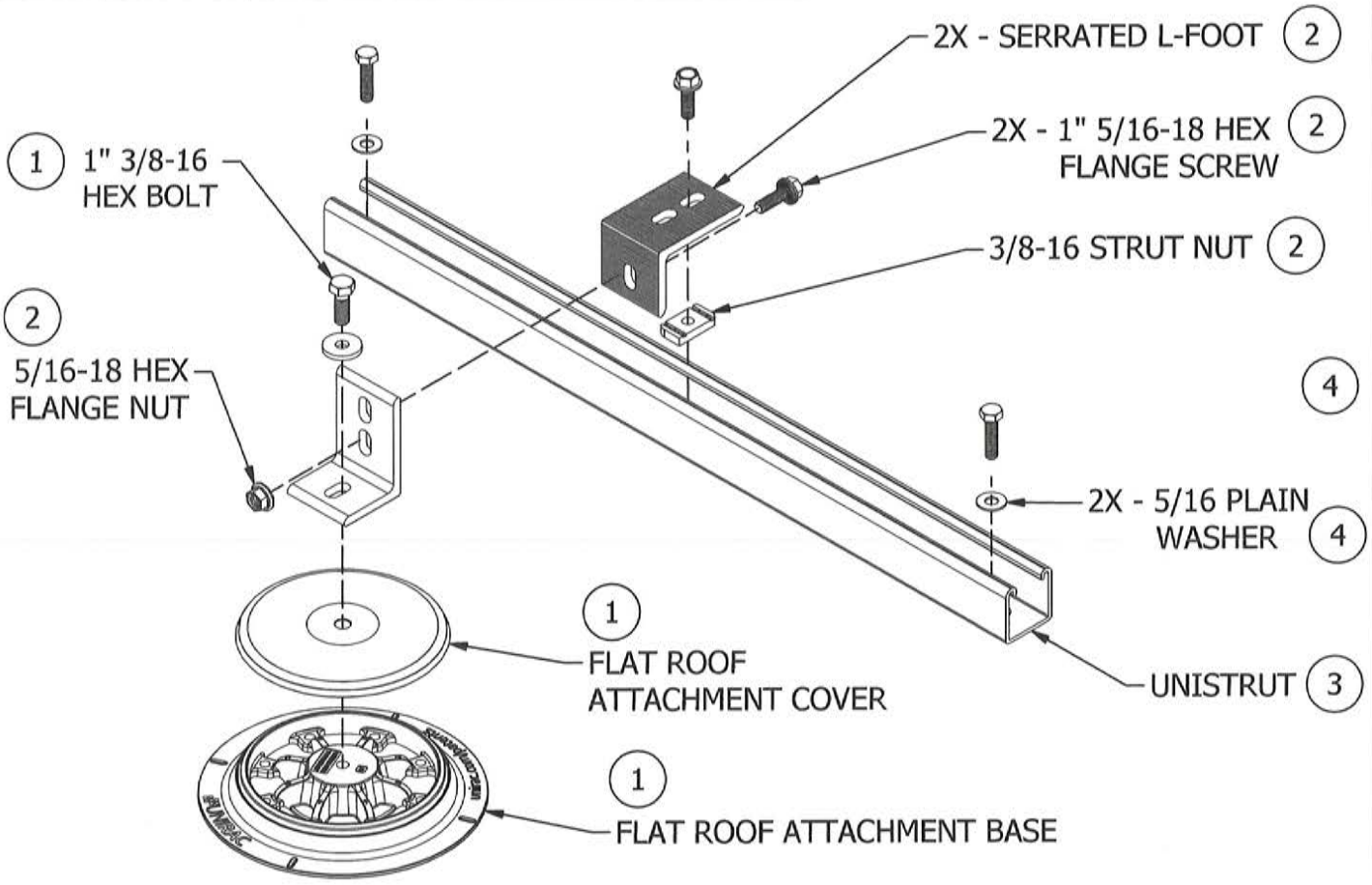
PRODUCT PROTECTED BY ONE OR MORE US PATENTS

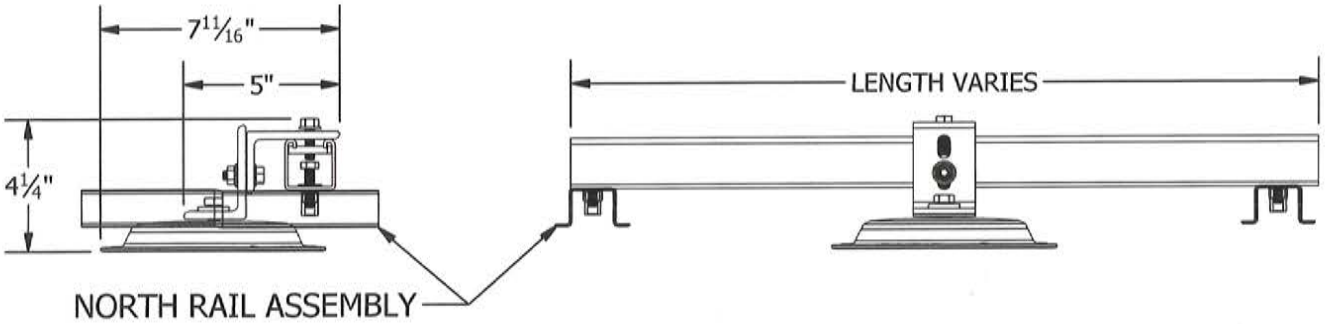
LEGAL NOTICE

GF-A07

SHEET

ASSEMBLY # TABLE		
ITEM	P/N	DESCRIPTION
1	310999	FLASHLOC RM KIT
2	ES10843	ECOFOOT ROOF TO STRUT HDWR KIT
3	ES20501	B22 GALVANIZED STRUT, 10'
4	360061	GRIDFLEX HRDWR KIT





UNIRAC
1411 BROADWAY BLVD. NE
ALBUQUERQUE, NM 87102 USA
PHONE: 505.242.6411
WWW.UNIRAC.COM

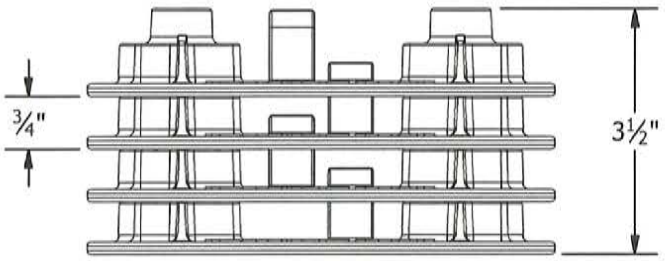
PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	ASSEMBLY
DESCRIPTION:	ATTACHMENT KIT
REVISION DATE:	8/30/2021

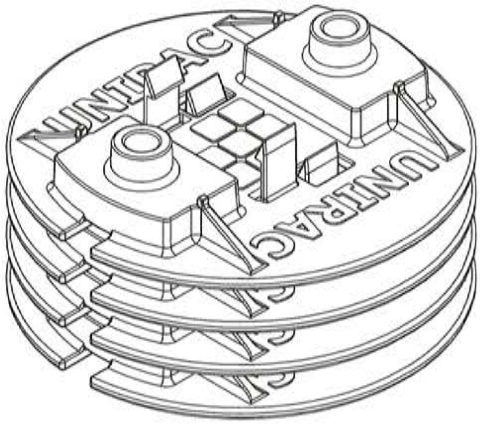
DRAWING NOT TO SCALE
ALL DIMENSIONS ARE NOMINAL

PRODUCT PROTECTED BY ONE OR MORE US PATENTS
LEGAL NOTICE

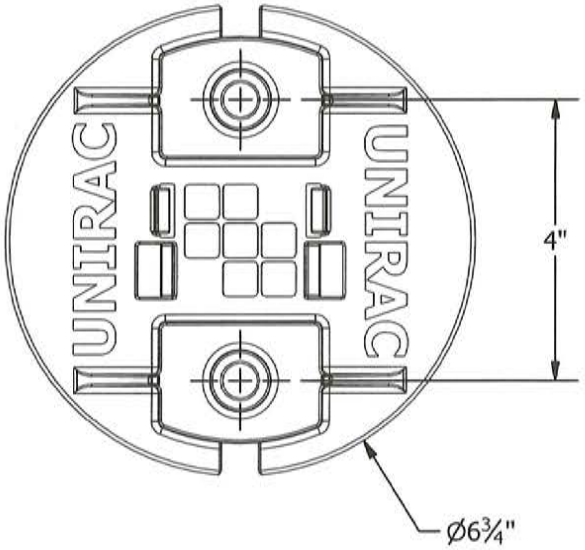
GF-A08
SHEET

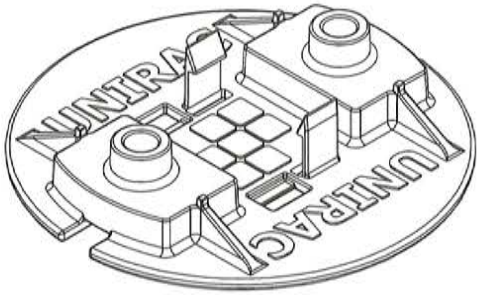
PART # TABLE	
P/N	DESCRIPTION
360060	ROOFPAD

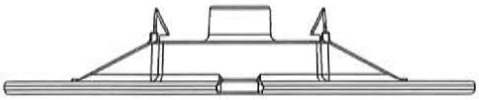


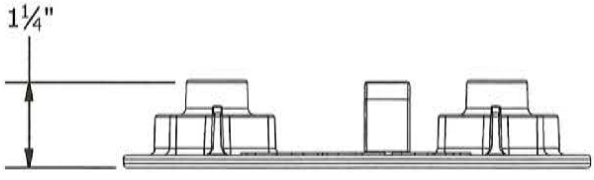


NOTE:
ROOFPADS MAY BE STACKED (UP TO 4) AS SHOWN
TO ACCOMMODATE ROOF UNDULATIONS.
ROOFPAD STACKING NOT ALLOWED ON SOUTH END OF THE ARRAY.









UNIRAC
1411 BROADWAY BLVD. NE
ALBUQUERQUE, NM 87102 USA
PHONE: 505.242.6411
WWW.UNIRAC.COM

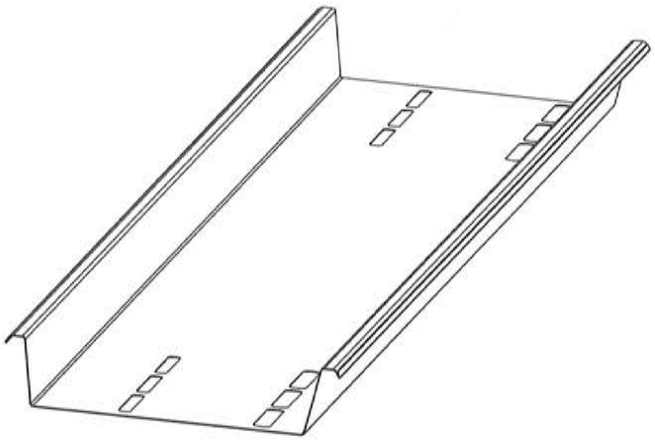
PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	PART
DESCRIPTION:	ROOFPAD
REVISION DATE:	9/15/2021

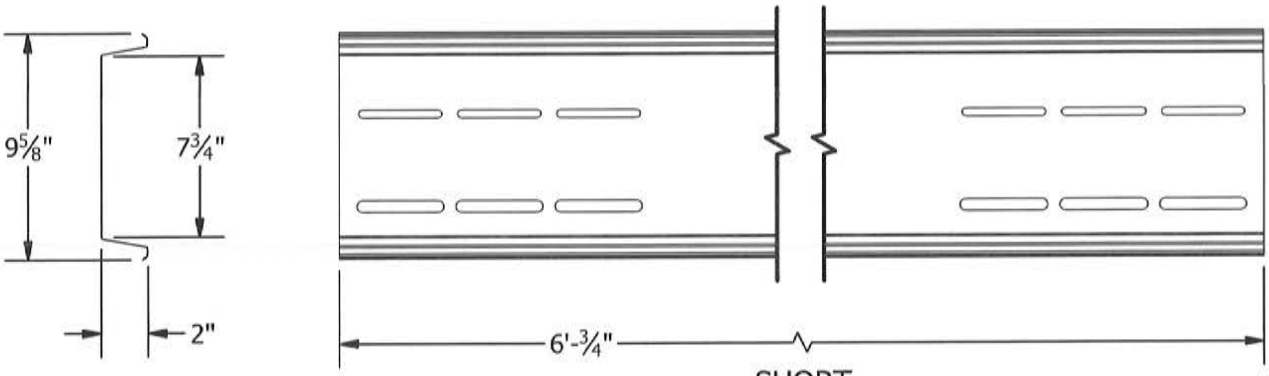
DRAWING NOT TO SCALE
ALL DIMENSIONS ARE NOMINAL

PRODUCT PROTECTED BY ONE OR MORE US PATENTS
LEGAL NOTICE

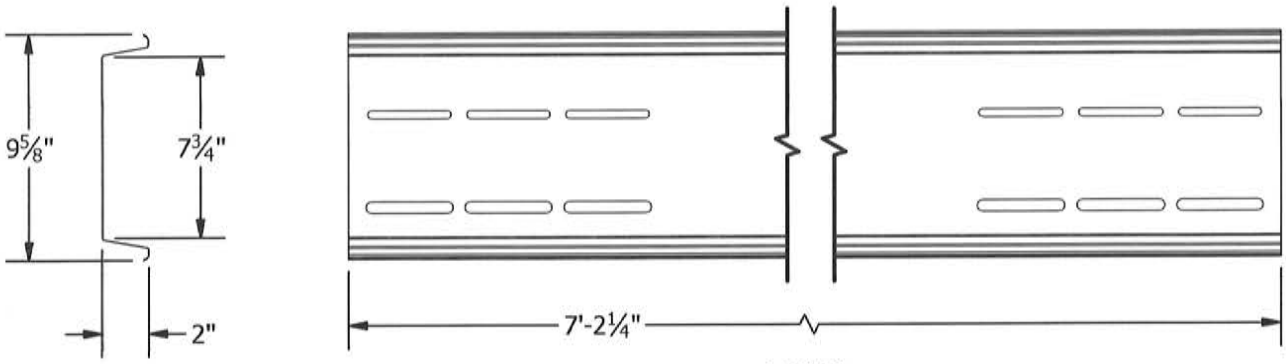
GF-P01
SHEET

PART # TABLE	
P/N	DESCRIPTION
360071	SHORT BALLAST TRAY 62" - 69"
360081	LONG BALLAST TRAY 77" - 83"





SHORT



LONG

UNIRAC
1411 BROADWAY BLVD. NE
ALBUQUERQUE, NM 87102 USA
PHONE: 505.242.6411
WWW.UNIRAC.COM

PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	PART
DESCRIPTION:	BALLAST TRAYS
REVISION DATE:	9/15/2021

DRAWING NOT TO SCALE
ALL DIMENSIONS ARE NOMINAL

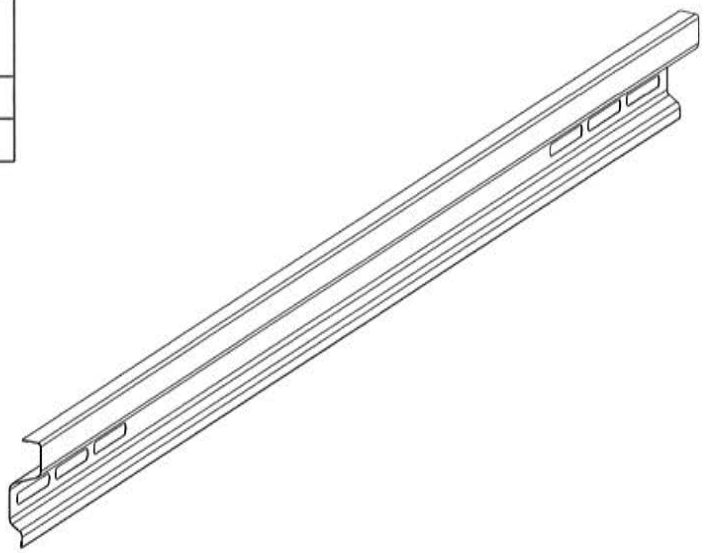
PRODUCT PROTECTED BY ONE OR MORE US PATENTS

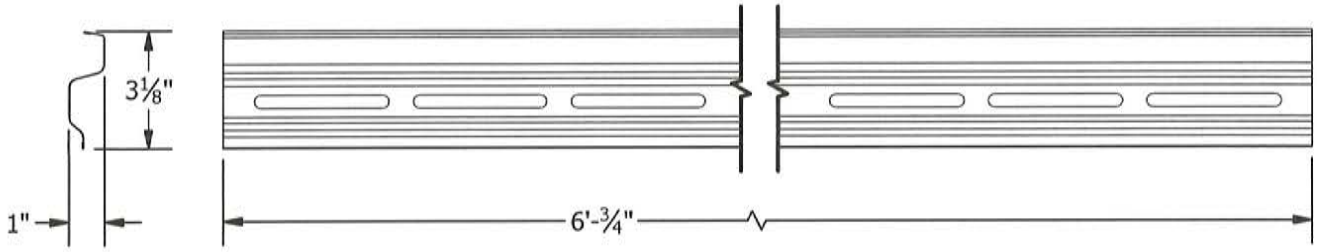
LEGAL NOTICE

GF-P02

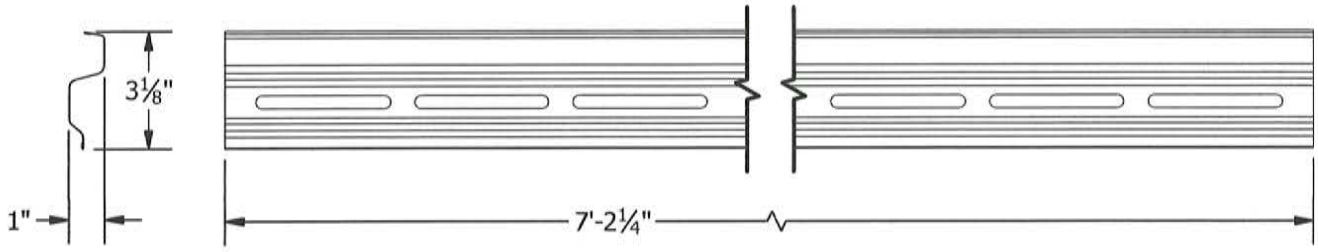
SHEET

PART # TABLE	
P/N	DESCRIPTION
360090	GRIDFLEX DEFLECTOR 62-69"
360100	GRIDLFEX DEFLECTOR 77-83"





SHORT



LONG

UNIRAC
1411 BROADWAY BLVD. NE
ALBUQUERQUE, NM 87102 USA
PHONE: 505.242.6411
WWW.UNIRAC.COM

PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	PART
DESCRIPTION:	WIND DEFLECTORS
REVISION DATE:	1/14/2021

DRAWING NOT TO SCALE
ALL DIMENSIONS ARE NOMINAL

PRODUCT PROTECTED BY ONE OR MORE US PATENTS

LEGAL NOTICE

GF-P03

SHEET

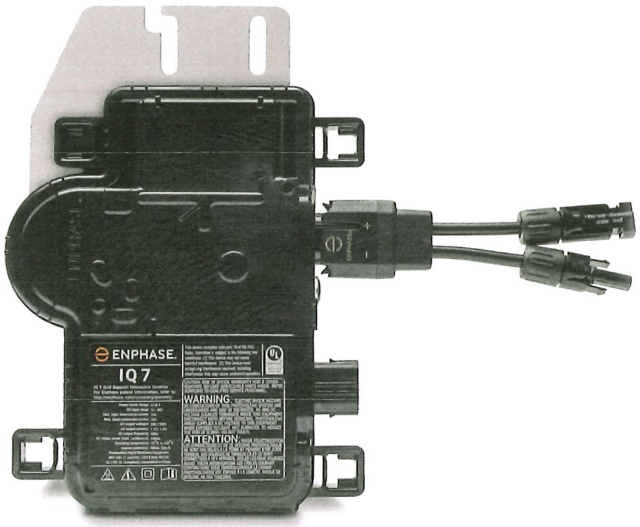
Data Sheet
Enphase Microinverters
Region: AMERICAS

Enphase IQ 7 and IQ 7+ Microinverters

The high-powered smart grid-ready **Enphase IQ 7 Micro™** and **Enphase IQ 7+ Micro™** dramatically simplify the installation process while achieving the highest system efficiency.

Part of the Enphase IQ System, the IQ 7 and IQ 7+ Microinverters integrate with the Enphase IQ Envoy™, Enphase IQ Battery™, and the Enphase Enlighten™ monitoring and analysis software.

IQ Series Microinverters extend the reliability standards set forth by previous generations and undergo over a million hours of power-on testing, enabling Enphase to provide an industry-leading warranty of up to 25 years.



Easy to Install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014 & 2017)

Productive and Reliable

- Optimized for high powered 60-cell/120 half-cell and 72-cell/144 half-cell* modules
- More than a million hours of testing
- Class II double-insulated enclosure
- UL listed

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA)

* The IQ 7+ Micro is required to support 72-cell/144 half-cell modules.

UL CERTIFIED

To learn more about Enphase offerings, visit **enphase.com**

ENPHASE

Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)	IQ7-60-2-US	IQ7PLUS-72-2-US
Commonly used module pairings[1]	235 W - 350 W +	235 W - 440 W +
Module compatibility	60-cell/120 half-cell PV modules only	60-cell/120 half-cell and 72-cell/144 half-cell PV modules
Maximum input DC voltage	48 V	60 V
Peak power tracking voltage	27 V - 37 V	27 V - 45 V
Operating range	16 V - 48 V	16 V - 60 V
Min/Max start voltage	22 V / 48 V	22 V / 60 V
Max DC short circuit current (module Isc)	15 A	15 A
Overvoltage class DC port	II	II
DC port backfeed current	0 A	0 A
PV array configuration	1 x 1 ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit	

OUTPUT DATA (AC)	IQ 7 Microinverter		IQ 7+ Microinverter	
Peak output power	250 VA		295 VA	
Maximum continuous output power	240 VA		290 VA	
Nominal (L-L) voltage/range[2]	240 V / 211-264 V	208 V / 183-229 V	240 V / 211-264 V	208 V / 183-229 V
Maximum continuous output current	1.0 A (240 V)	1.15 A (208 V)	1.21 A (240 V)	1.39 A (208 V)
Nominal frequency	60 Hz		60 Hz	
Extended frequency range	47 - 68 Hz		47 - 68 Hz	
AC short circuit fault current over 3 cycles	5.8 Arms		5.8 Arms	
Maximum units per 20 A (L-L) branch circuit[3]	16 (240 VAC)	13 (208 VAC)	13 (240 VAC)	11 (208 VAC)
Overvoltage class AC port	III		III	
AC port backfeed current	18 mA		18 mA	
Power factor setting	1.0		1.0	
Power factor (adjustable)	0.85 leading ... 0.85 lagging		0.85 leading ... 0.85 lagging	

EFFICIENCY	@240 V	@208 V	@240 V	@208 V
Peak efficiency	97.6 %	97.6 %	97.5 %	97.3 %
CEC weighted efficiency	97.0 %	97.0 %	97.0 %	97.0 %

MECHANICAL DATA	
Ambient temperature range	-40°C to +65°C
Relative humidity range	4% to 100% (condensing)
Connector type	MC4 (or Amphenol H4 UTX with additional Q-DCC-5 adapter)
Dimensions (HxWxD)	212 mm x 175 mm x 30.2 mm (without bracket)
Weight	1.08 kg (2.38 lbs)
Cooling	Natural convection - No fans
Approved for wet locations	Yes
Pollution degree	PD3
Enclosure	Class II double-insulated, corrosion resistant polymeric enclosure
Environmental category / UV exposure rating	NEMA Type 6 / outdoor

FEATURES	
Communication	Power Line Communication (PLC)
Monitoring	Enlighten Manager and MyEnlighten monitoring options. Both options require installation of an Enphase IQ Envoy.
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690.
Compliance	CA Rule 21 (UL 1741-SA) UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 690.12 and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according manufacturer's instructions.

1. No enforced DC/AC ratio. See the compatibility calculator at https://enphase.com/en-us/support/module-compatibility.
2. Nominal voltage range can be extended beyond nominal if required by the utility.
3. Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

To learn more about Enphase offerings, visit **enphase.com**

ENPHASE

APPLICATION FOR BUILDING PERMIT

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

Application Number:	103	Date:	01/04/2022
Job Location:	90 FARGO LN	Parcel ID:	2.20-3-5
Property Owner:	ETA Fargo LLC; Managing Member: Sara Parganos	Property Class:	1 FAMILY RES
Occupancy:	One/ Two Family	Zoning:	
Common Name:			

Applicant	**Contractor**
John Malone	Brandon Hall
Ferguson Malone Architecture	Consolidated Hudson Electric
One Bridge Street - Suite 29Irvington NY 10533	64 Main Street Irvington NY 10533
914-564-3166	914-591-0100

Description of Work

Type of Work:	Solar Panels	Applicant is:	Architect
Work Requested by:	The Owner	In association with:	
Cost of Work (Est.):	10000.00	Property Class:	1 FAMILY RES

Description of Work

Solar panels on roof

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

Job Location: 90 FARGO LN Parcel Id: 2.20-3-5

AFFIDAVIT OF APPLICANT

I **John Malone** being duly sworn, depose and says: That s/he does business as: **Ferguson Malone Architecture** with offices at: **One Bridge Street - Suite 29 Irvington NY 10533** and that s/he is:

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

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

Sworn to before me this 4th day of January of 2022

Baran

Notary Public / Commission of Deeds

Jessica Emilia Baran
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 01BA6355917
Qualified in Westchester County
Commission Expires March 20, 2025

Applicant's Signature

OWNER'S AUTHORIZATION

I **ETA Fargo LLC; Managing Member: Sara Parganos** as the owner of the subject premises and have authorized the contractor named above to perform the work under the subject application.

Owner phone number 917-623-6304 Owner email address saraemilyparganos@gmail.com

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

Sworn to before me this 4th day of January of 2022

Rholiya Arnao Williams

Notary Public / Commission of Deeds

Sara Parganos

Applicant's Signature

RHOLIYA ARNAO WILLIAMS
Notary Public - State of Florida
Commission # HH 68370
Expires on December 1, 2024

Notarized online using audio-video communication

VILLAGE OF IRVINGTON
BUILDING DEPARTMENT
85 MAIN STREET
IRVINGTON, NEW YORK 10533
TEL: (914) 591-8335 • FAX: (914) 591-5870

PHOTOVOLTAIC (PV SOLAR) RESIDENTIAL SYSTEMS PERMIT APPLICATION CHECK LIST

Revised June 7, 2017

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

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

- X 1) Apply on line at www.irvingtonny.gov for a mechanical permit, under building permits and along with your application, submit to the building department the following;
- X 2) Owners phone number and email address entered in the online permit application
- X 3) Evidence of Workers Compensation Insurance (on a C-105 or equivalent)
- X 4) Evidence of Liability Insurance naming the Village of Irvington additional insured
- X 5) A copy of the contractors Westchester County Department of Consumer Protection License
- X 6) Pursuant to 9-12-A. provide evidence of notice to adjacent properties owners not less than 10 days prior to the meeting (see attached code section for more details)
- X 7) Submit permit fee: (all fees must be paid at time of submission)
  - X $85 application fee
  - ___ $200 for systems up to 5 kilowatts
  - ___ $450 for systems above 5 kilowatts and less than 10 kilowatts
  - ___ $700 for systems above 10 kilowatts and less than 20 kilowatts
  - X $700 plus $250 per additional 10 kilowatts above 20 for systems above 20 kilowatts
  - X $75 Certificate of Completion inspection and fee
- X 8) An affidavit from a NYS licensed professional detailing and certifying that the existing structure meets or exceeds the minimum load requirement's as per TABLE R301.2(1) for wind and load before and after installation of the proposed equipment or the proposed upgrades to the existing structure to accomplish the aforesaid.
- X 9) Drawings (signed and sealed by a NYS licensed professional) of the roof plan showing the following criteria;
  - a. X Showing all proposed PV panels on all proposed roof surfaces.
  - b. X Showing all equipment on all elevations including
  - c. X Show / list all roof connectors and flashing details
  - d. X Show compliance with section R902.4 (fire classification in accordance with UL1703 and 3' from any lot line)
  - e. X Show compliance with sections R324.3.1 through R324.7.2.5 and NFPA 70 (installation)
  - f. X Show compliance with section R324.7 (access and pathways) (see attachment)
  - g. X Show compliance with section R324.7.2.1-6. (roof access points) (see attachment)
  - h. X Show compliance with section R324.7.3 (ground access areas) (see attachment)
  - i. ___ Show compliance with section R324.7.4 (single ridge roofs *when applicable*) (see attachment)
  - j. ___ Show compliance with section R324.7.5 (hip roofs *when applicable*) (see attachment)
  - k. ___ Show compliance with section R324.7.6 (roof with valleys *when applicable*) (see attachment)
  - l. X Show compliance with section R324.7.7 (allowance for smoke ventilation operations) (see attachment)
  - m. X Show a Fire Department AC disconnect, located outside by the Utility meter on all systems.
- X 10) Provide a drawing or manufactures cut sheets of array mounting hardware and interconnection diagram and specifications.
- X 11) Provide a drawing or manufactures cut sheets of the unit mount and roof penetration's flashing system.
- X 12) 3 wire diagram showing all proposed equipment as governed by the National Electrical Code (NEC)
- X 13) Provide a diagram showing all proposed labels and labeling locations including; Solar AC Disconnect, Inverter Output, Connection Warning, Duel Power Source Warning, Solar AC Combiner Panel, Solar PV Circuits Only, Solar Production meter. (see attachment)
- ___ 14) Provide snow guards on panels were snow has the potential of sliding of the panel into a neighbor's property
- X 15) Pictures of dwelling showing photo shopped arrays on the structure.
- X 16) Provide a drawing or photo shop picture of all proposed equipment on all effected elevations (including FD emergency disconnect switch)
- X 17) A Fire Department AC disconnect, located outside by the Utility meter on all systems.

VILLAGE OF IRVINGTON
BUILDING DEPARTMENT
85 MAIN STREET
IRVINGTON, NEW YORK 10533
TEL: (914) 591-8335 • FAX: (914) 591-5870

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

Applicant Affidavit:
Applicants Name: John Malone
Applicants Address: 1 Bridge St - Suite 29
Irvington, NY 10533
Applicants Phone # 914-564-3166
Applicants Email info@fergusonmalone.com

Applicant Name: John Malone **Signature:** _____ **Date:** 01/04/2022 **By signing this affidavit I attest to have read the attached Solar Energy Equipment Code and the Solar Equipment Guidelines manufactures installation instructions and that all information asked for above has been submitted and that the submitted information is correct.**

General Contractor Affidavit:
Contractors Name: _____
Contractors Address: _____
_____
Contractors Phone # _____
Contractors Email _____

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

Electrical Contractor Affidavit:
Electrical Contractors Name: Consolidated Hudson Electric, Corp.
Electrical Contractors Address: 64 Main St.
Irvington, NY 10533
Electrical Contractors Phone # (914) 591-0100
Electrical Contractors Email brandon@conhudelectric.com

Electrical Contractor Name: Consolidated Hudson Electric, Corp. **Signature:** _____ **Date:** 1/4/2022 **By signing this affidavit I attest to being the electrical contractor of record for this application and will be responsible for oversite and direct supervision of same, and will maintain a valid Westchester County Electrical License, a valid for Workers Compensation Policy and a General Liability Policy listing the Village of Irvington as Certificate Holder and additional insured with no conditions until such time I apply for and receive a Certificate of Completion.**

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

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

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

VILLAGE OF IRVINGTON
BUILDING DEPARTMENT
85 MAIN STREET
IRVINGTON, NEW YORK 10533
TEL: (914) 591-8335 • FAX: (914) 591-5870
Web Site: www.Irvingtonny.gov

LICENSED PROFESSIONAL AFFIDAVIT for RESIDENTIAL SOLAR SYSTEMS

TO BE SUBMITTED AS PART OF THE PERMIT APPLICATION

AFFIDAVIT OF ARCHITECT OR ENGINEER

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

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

1. I am an the (architect)(engineer) duly licensed in the State of New York

2. I am the NYS licensed design professional named in the Application for which a Building Permit for a residential solar system located at 90 Fargo Lane, Irvington, New York 10533.

3. I have inspected the existing building and structure and find that the existing structure with the proposed solar panel installation and connections to the existing roof meet the minimum criteria set forth in;
   Applicable Codes: 2015 Residential Code of New York State
   Design Roof Load: 30 psf live load, 115 psf dead load, 45 psf total load
   Design Wind Load: 120 mph, 35psf
   OR have proposed additional measures to insure compliance with above.

4. I have reviewed the following submitted drawings and/or manufacture specifications as part of the submission
   List applicable plans with revision dates: A-203.1 Solar Panel Plan (rev date) 01/03/2022
   _____ (rev date) _____
   _____ (rev date) _____
   _____ (rev date) _____
   _____ (rev date) _____
   _____ (rev date) _____

5. The plans, drawings and specifications which the Building Permit is requested and listed above, as submitted (a)-were prepared by me or under my supervision, and (b)-to the best of my knowledge comply with the requirements of the Residential Building Code of New York State as adopted by the Village of Irvington, applicable design loads and all other applicable laws, rules and regulations governing building construction.

Signature
John Malone
(Architect) (Engineer)

Sworn to before me this
4th day of January, 2022.

Notary Public

Jessica Emilia Baran
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 01BA6355917
Qualified in Westchester County
Commission Expires March 20, 2025

PHOTOVOLTAIC DC DISCONNECT

WARNING! ELECTRIC SHOCK HAZARD!

Voc	V
Vmp	V
Isc	A
Imp	A

Label Location:
(DC), (INV)
Per Code:
CEC 690.53, NE

WARNING - Dual Power Sources
Second source is photovoltaic system

Label Location:
(INV), (AC), (LC

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

Label Location:
(CB)

PHOTOVOLTAIC POINT OF INTERCONNECTION

WARNING! ELECTRIC SHOCK HAZARD!

DO NOT TOUCH TERMINALS. TERMINALS ON BOTH THE LINE AND LOAD SIDE MAY BE ENERGIZED

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

Label Location:
(POI)

PV COMBINER BOX
WARNING:
ELECTRIC SHOCK HAZARD

Label Location:
(CB)

CAUTION: SOLAR CIRCUIT

Label Location:
(C)

Solar Disconnect

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

Label Location:
(AC), (LC)
Per Code:
CEC 690.17, NEC 690.14 (4)

DC DISCONNECT

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

DC VOLTAGE IS ALWAYS PRESENT WHEN SOLARMODULES ARE EXPOSED TO SUNLIGHT

Label Location:
(DC), (INV)

WARNING!
INVERTER OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE.

Label Location:
(POI)

PHOTOVOLTAIC AC DISCONNECT

WARNING! ELECTRIC SHOCK HAZARD!

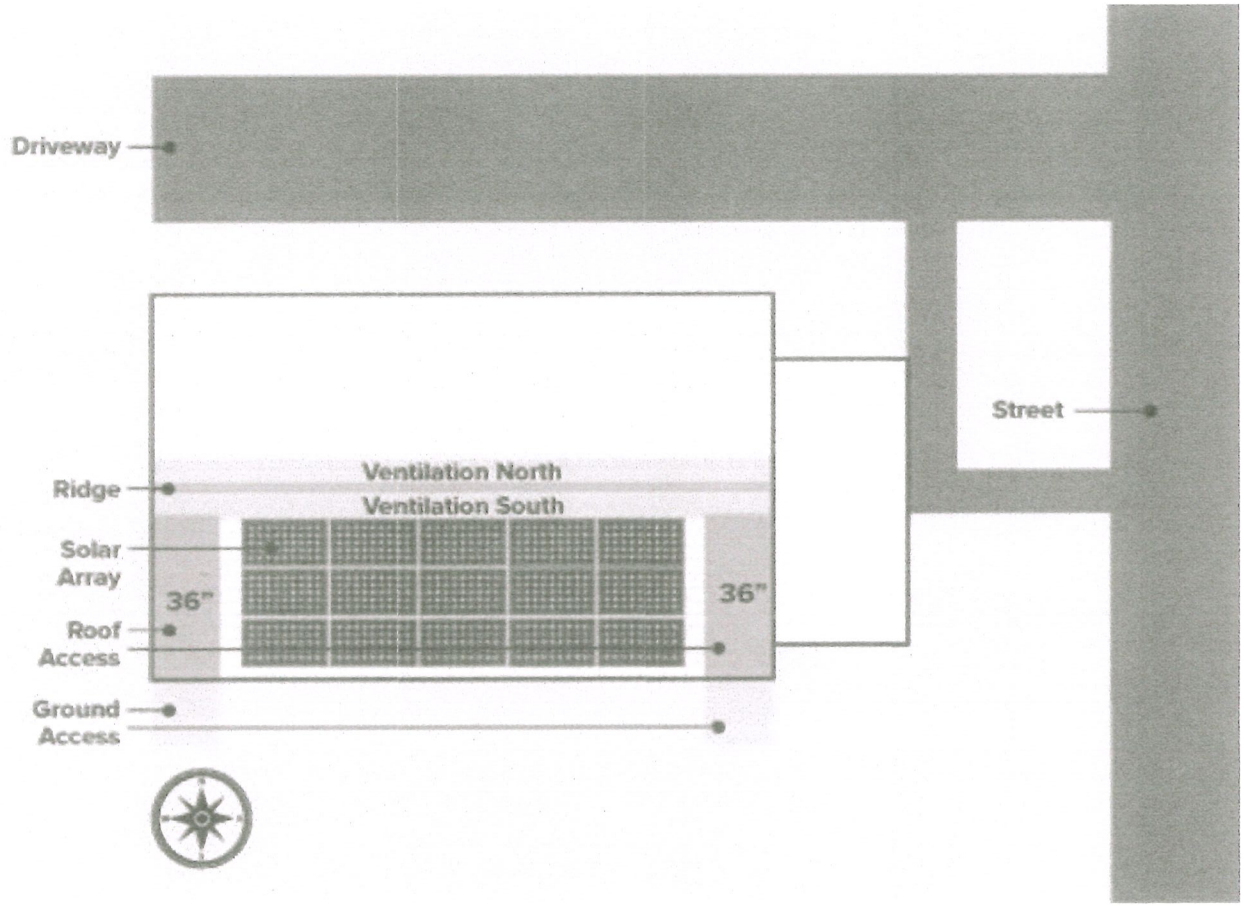
OPERATING AC VOLTAGE	V
MAXIMUM OPERATING CURRENT	A

Label Location:
(AC), (D), (LC)
Per Code:
CEC 690.8.A.3 & CEC 690.54, NEC 690.14 (c)(2)

(AC): AC Disconnect
(C): Conduit
(CB): Combiner Box
(D): Distribution Panel
(DC): DC Disconnect
(IC): Interior Run Conduit
(INV): Inverter With Integrated DC Disconnect
(LC): Load Center

Single Ridge Roof with Two Pathways on Same Slope as Array

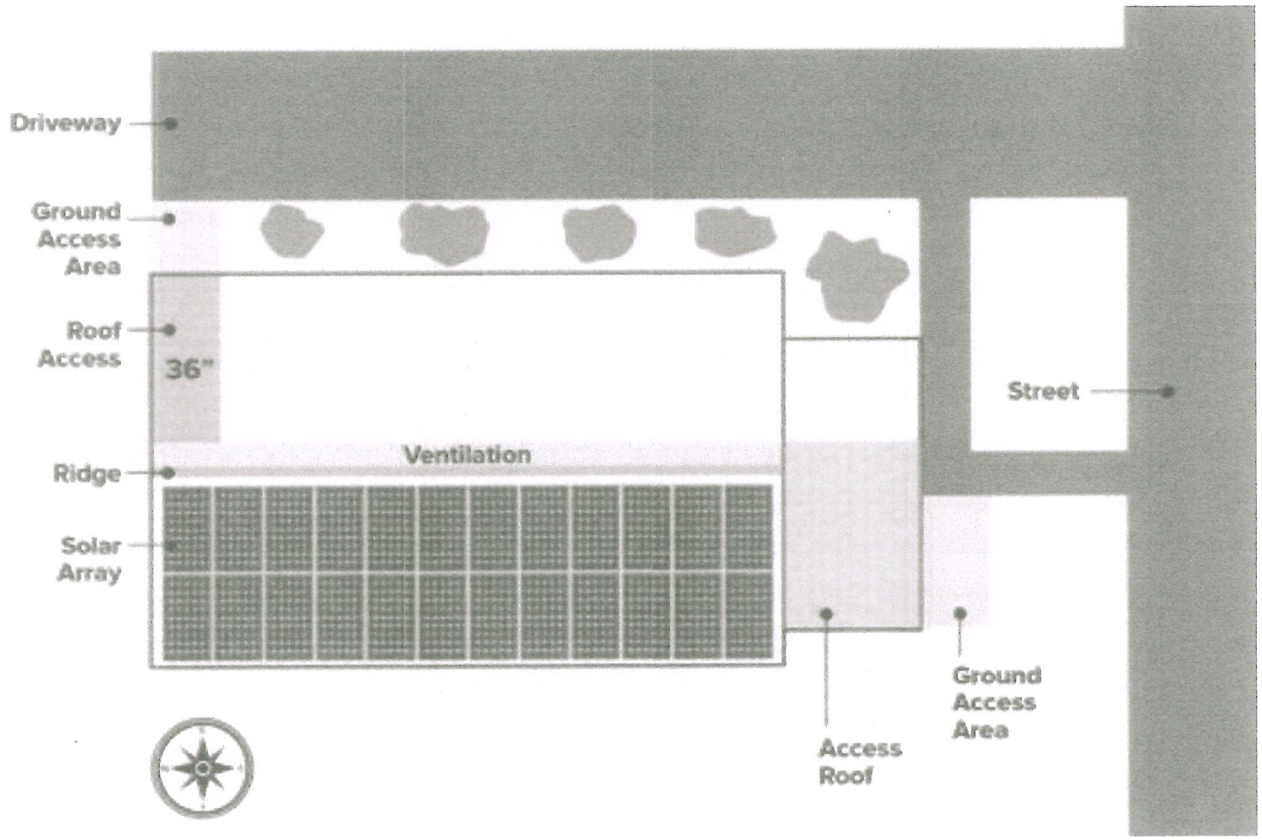
Two pathways are required for single ridge roofs. If both pathways are located on the same slope as the PV array, array space is limited. Exceptions to Section R324.7.4 may permit alternate access, pathways and venting locations.



Source: NYSERDA

Single Ridge Roof with Alternate Access and Venting Locations

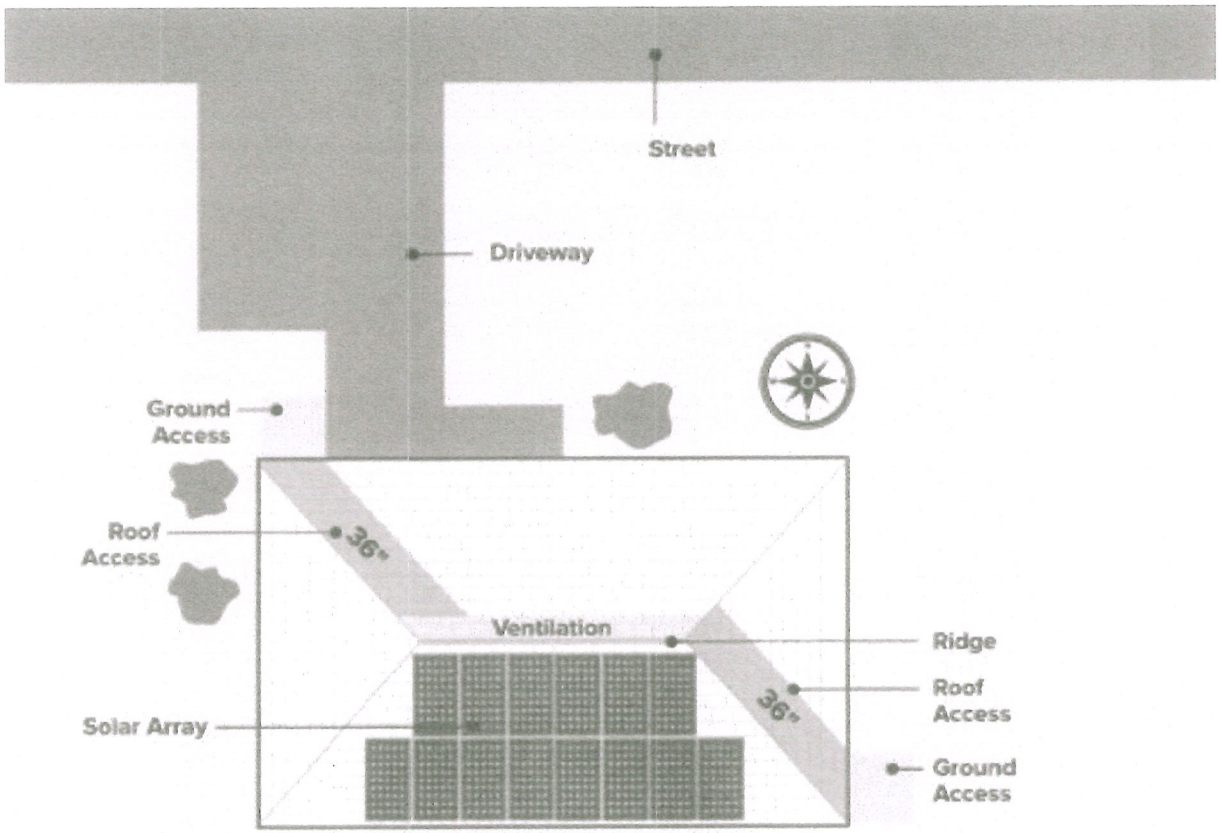
Alternate access, pathways and venting locations may be possible for single ridge roofs meeting exceptions to Section R324.7.4.



Source: NYSERDA

Hip Roof Installation with Alternate Venting and Pathway Locations

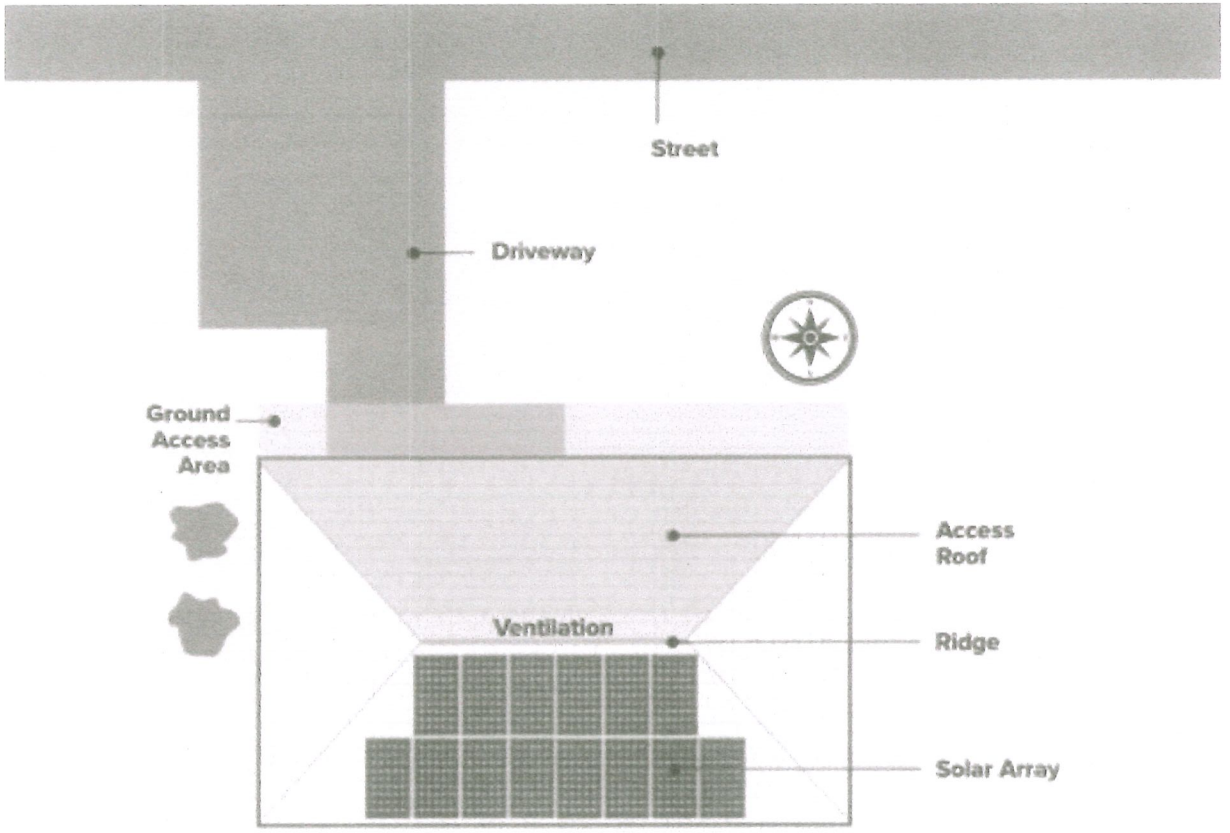
Alternate locations may be possible for venting and access pathways on hip roofs meeting exceptions to Section R324.7.5.



Source: NYSERDA

Hip Roof Installation Where an ACCESS ROOF Fronts a Street or Driveway

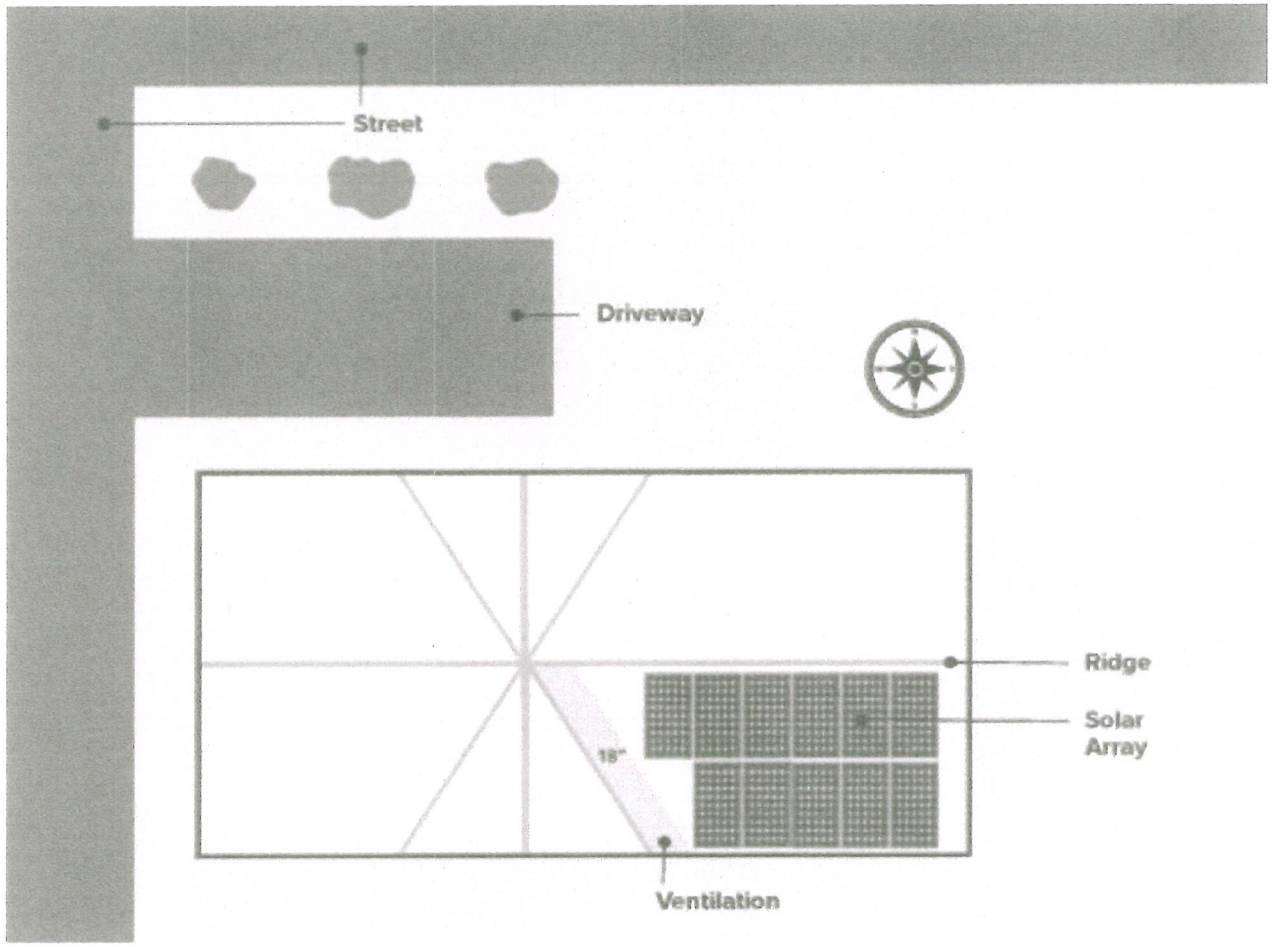
Section R324.7.5 Exception #2 generally applies to any residential structures where an ACCESS ROOF fronts a street, driveway, or other area readily accessible to emergency responders.



Source: NYSERDA

Roofs with Valleys

Section R324.7.6 requires any parts of PV arrays to be no closer than 18 inches from valleys.



Source: NYSERDA

FERGUSON MALONE ARCHITECTURE

January 04, 2022

Ed Marron,
Building inspector
Village of Irvington
Village Hall
85 Main Street
Irvington, NY 10533

Parganos Residence
BP No. 361 (90 Fargo Lane, Irvington NY)
Revisions to ARB Approved Roof Plan

Mr. Marron & Members of the Architectural Review Board,

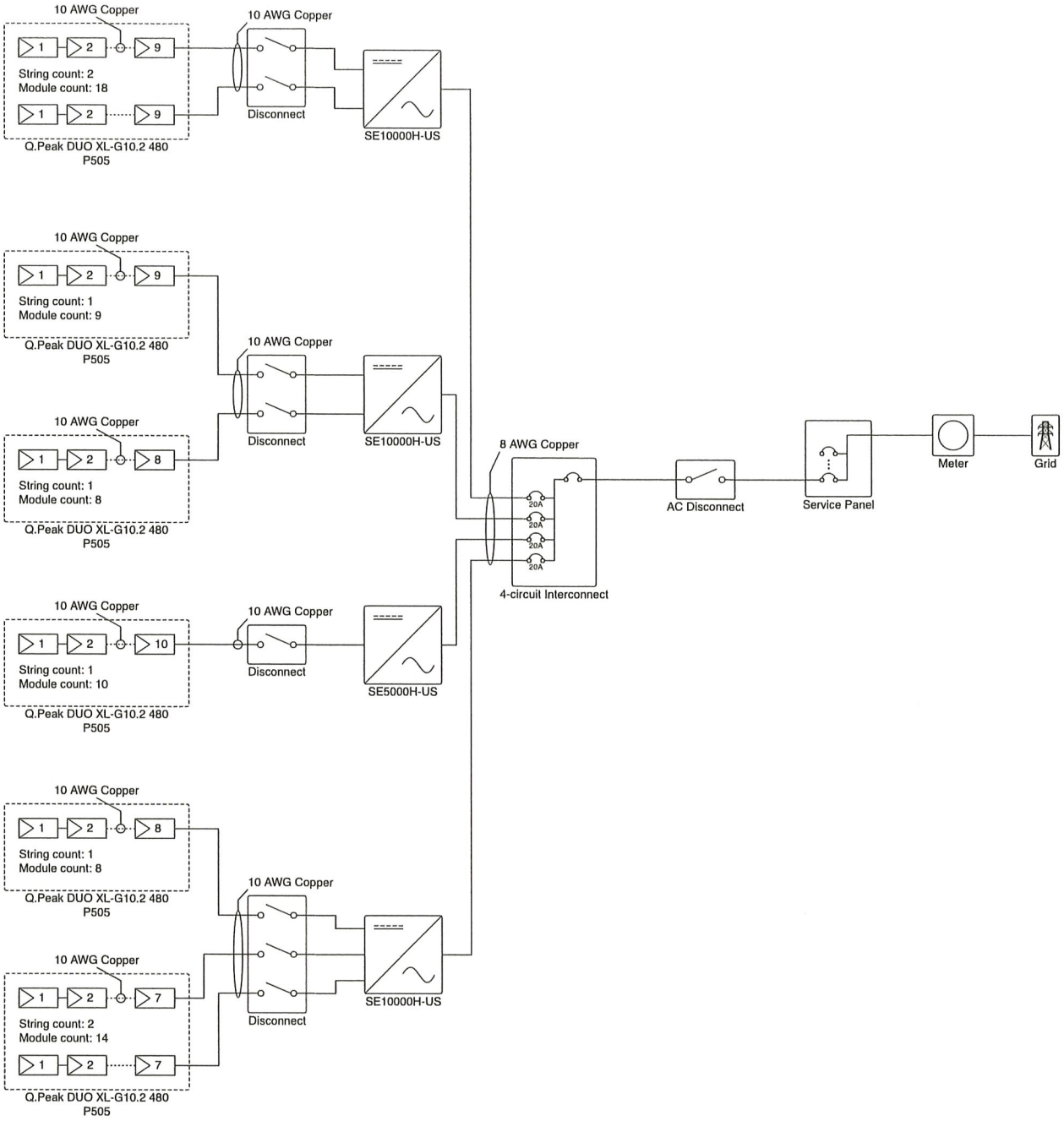
This letter is to certify that the existing exceeds the minimum load requirements as per Table R301.2 (1) for wind and load after installation of the proposed solar equipment.

Please let me know if you or your consultants have any questions or concerns, and feel free to contact me at (914) 591-5066 or via email at jmalone@fergusonmalone.com.

Sincerely,

John Malone, AIA LEED AP

cc: ETA Fargo, LLC - Sara Parganos-Account Manager
File



Module Specifications	
67x Hanwha Q Cells Q.Peak DUO XL-G10.2 480	
STC Rating	480 W
Vmp	44.85 V
Imp	10.7 A
Voc	53.62 V
Isc	11.25 A

Inverter Specifications	
3x SolarEdge SE10000H-US	
Max AC Power Rating	10 kW
Max Input Voltage	480 V
Min AC Power Rating	0 W
Min Input Voltage	400 V

Inverter Specifications	
1x SolarEdge SE5000H-US	
Max AC Power Rating	5 kW
Max Input Voltage	480 V
Min AC Power Rating	0 W
Min Input Voltage	340 V

Wire Schedule		
Tier	Wire	Length
AC Branch	4x 8 AWG	2056ft
String	8x 10 AWG	291ft

PHOTOVOLTAIC DC DISCONNECT

WARNING! ELECTRIC SHOCK HAZARD!

Voc	V
Vmp	V
Isc	A
Imp	A

Label Location:
(DC), (INV)
Per Code:
CEC 690.53, NE

Solar Disconnect

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

Label Location:
(AC), (LC)
Per Code:
CEC 690.17, NEC 690.14 (4)

WARNING - Dual Power Sources
Second source is photovoltaic system

Label Location:
(INV), (AC), (LC

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(POI)

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Label Location:
(POI)

PV COMBINER BOX
WARNING:
ELECTRIC SHOCK HAZARD

Label Location:
(CB)

PHOTOVOLTAIC AC DISCONNECT

WARNING! ELECTRIC SHOCK HAZARD!

OPERATING AC VOLTAGE	V
MAXIMUM OPERATING CURRENT	A

Label Location:
(AC), (D), (LC)
Per Code:
CEC 690.8.A.3 & CEC 690.54, NEC 690.14 (c)(2)

CAUTION: SOLAR CIRCUIT

Label Location:
(C)

(AC): AC Disconnect
(C): Conduit
(CB): Combiner Box
(D): Distribution Panel
(DC): DC Disconnect
(IC): Interior Run Conduit
(INV): Inverter With Integrated DC Disconnect
(LC): Load Center

SIEMENS

Show actual product details

Data sheet US2:HF224N

200A 2P 240V 3W FUSED HD TYPE 1

General technical data	
Installation location	INDOOR
Manner of function of the actuating element	SINGLE THROW
Mechanical service life (switching cycles) typical	8000
Mounting type	2 OR 3 POINT MOUNTING HOLES
Number of poles	2
Electricity	
Ampacity	200 A
Supply voltage frequency rated value 50/60 Hz	Yes
Voltage between phase and Ground (GND) rated value	240 V
Switching capacity	
Switching capacity active power	3 W
Environmental conditions	
Ambient temperature during operation maximum	120 °C
Ambient temperature during operation minimum	-20 °C
Model	
product brandname	SIEMENS

Product type designation	ENCLOSED/SAFETY SWITCH

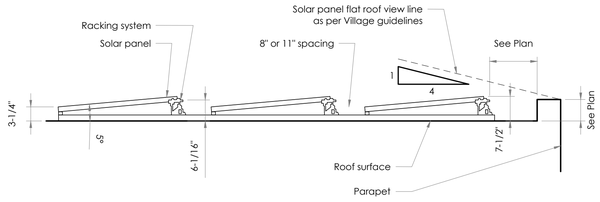
Mechanical Design

Design of the housing	TYPE 1
Material	STEEL

General product approval

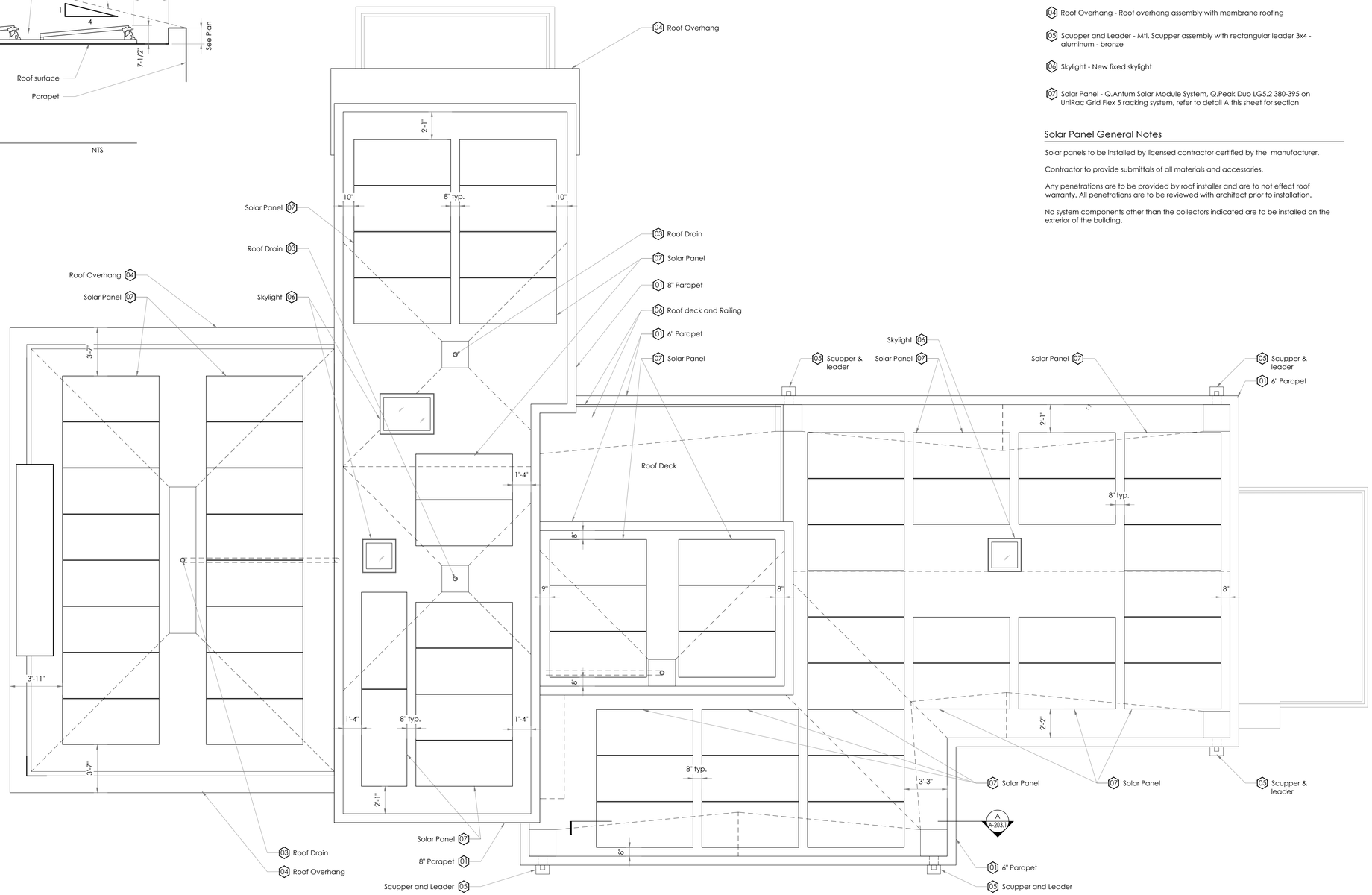
Certificate of suitability	UL

last modified: 01/09/2017



A Typical Solar Panel Section Detail

NTS



1 Solar Panel Layout

1/4" = 1'-0"

Key Notes

01 Parapet - Built-up Parapet with Metal Cap

02 Roof deck and Railing - Mahogany Roof deck and metal cable railing system

03 Roof Drain - Zyrn Z125 8" diameter roof drain - installed as per manufacture's instructions and coordinated with membrane roof system

04 Roof Overhang - Roof overhang assembly with membrane roofing

05 Scupper and Leader - Mtl. Scupper assembly with rectangular leader 3x4 - aluminum - bronze

06 Skylight - New fixed skylight

07 Solar Panel - Q.Antum Solar Module System, Q.Peak Duo LG5.2 380-395 on UniRac Grid Flex 5 racking system, refer to detail A this sheet for section

Solar Panel General Notes

Solar panels to be installed by licensed contractor certified by the manufacturer.

Contractor to provide submittals of all materials and accessories.

Any penetrations are to be provided by roof installer and are to not effect roof warranty. All penetrations are to be reviewed with architect prior to installation.

No system components other than the collectors indicated are to be installed on the exterior of the building.

Parganos Residence

90 Fargo Lane
Irvington, NY

NO.	DATE	ISSUE/REVISION
12	01/03/2022	Reubmission for ARB Approval

In developing the plans and specifications for the project, the Architect has taken into account applicable state and municipal building laws and regulations, including the Residential Code 2015 of New York State (IRC 2015/New York State Amendments) which includes Chapter 11 Energy Efficiency.

FERGUSON MALONE ARCHITECTURE
ONE BRIDGE STREET
IRVINGTON NY 10533
T 914 591 5066 F 914 591 5031

CIVIL ENGINEER
HUDSON ENGINEERING & CONSULTING, P.C.
45 Knollwood Road - Elmsford, New York 10523
T: 914-909-0420

MEP ENGINEER
EP ENGINEERING LLC
110 William Street, 32nd Floor - New York, New York 10038
T: 212-257-6191

ARBORIST
MALCOLM MCBURNEY CONSULTING ARBORIST
47 Pine Street - Ramsey, New Jersey 07446
T: 201-424-7267

Proposed Solar Panel Plan

SCALE: As Noted

DATE: 09/04/2020

JOB: 1818

A-2.03.1

12 New Sheet