

HISTORIC PRESERVATION COMMISSION

Marc Elrich County Executive Sandra I. Heiler Chairman

Date: June 24, 2019

MEMORANDUM

TO:	Diane Schwartz Jones
	Department of Permitting Services
FROM:	Michael Kyne
	Historic Preservation Section
	Maryland-National Capital Park & Planning Commission
SUBJECT:	Historic Area Work Permit #867296: Solar panel installation

The Montgomery County Historic Preservation Commission (HPC) has reviewed the attached application for a Historic Area Work Permit (HAWP). This application was <u>Approved</u> at the June 12, 2019 Historic Preservation Commission meeting.

The HPC staff has reviewed and stamped the attached construction drawings.

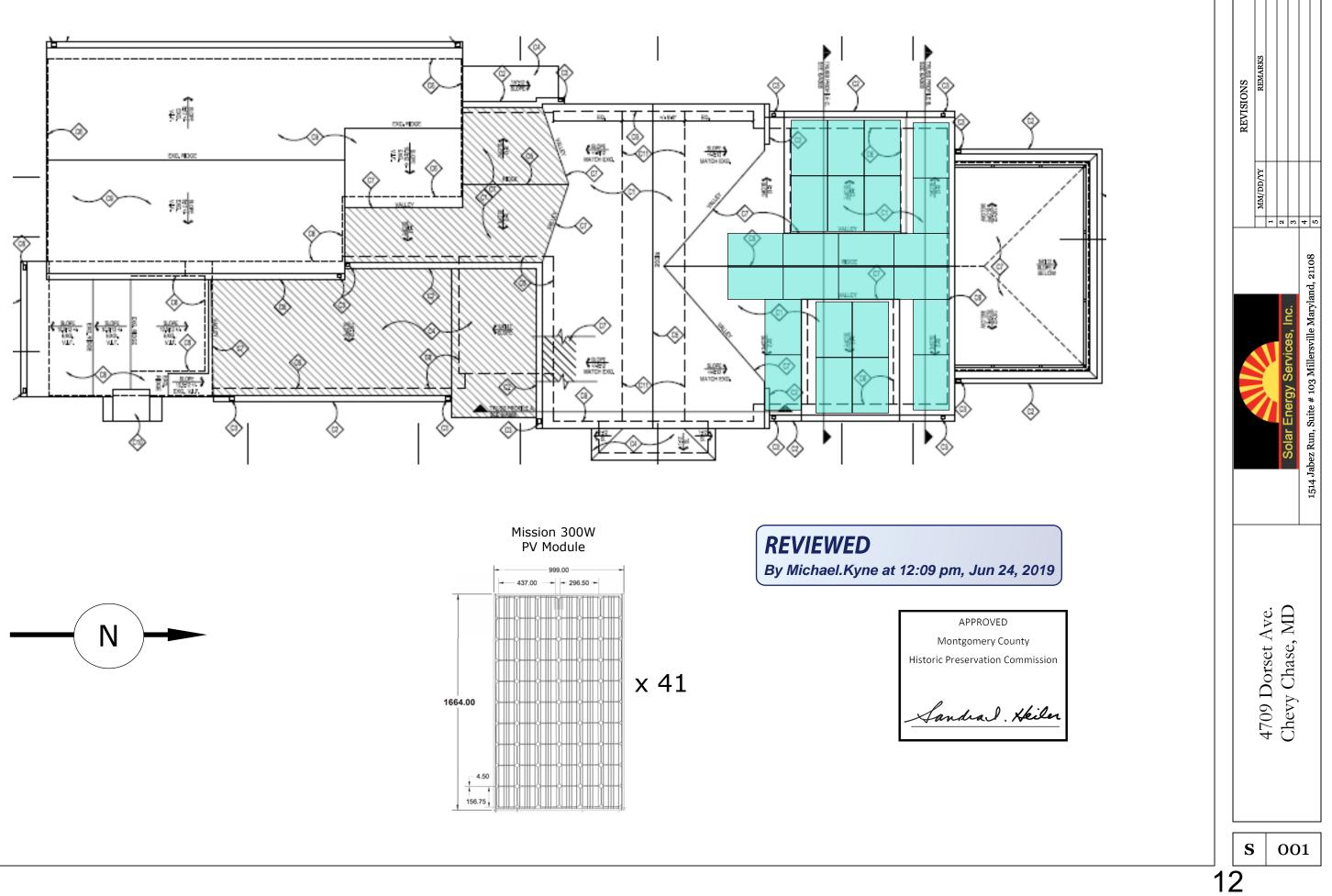
THE BUILDING PERMIT FOR THIS PROJECT SHALL BE ISSUED CONDITIONAL UPON ADHERENCE TO THE ABOVE APPROVED HAWP CONDITIONS AND MAY REQUIRE APPROVAL BY DPS OR ANOTHER LOCAL OFFICE BEFORE WORK CAN BEGIN.

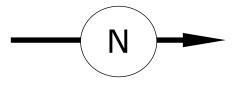
Applicant: Michael Gottlieb (Lisa Walsh, Agent)

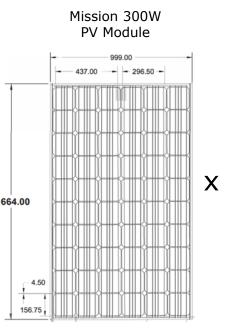
Address: 4709 Dorset Avenue, Chevy Chase

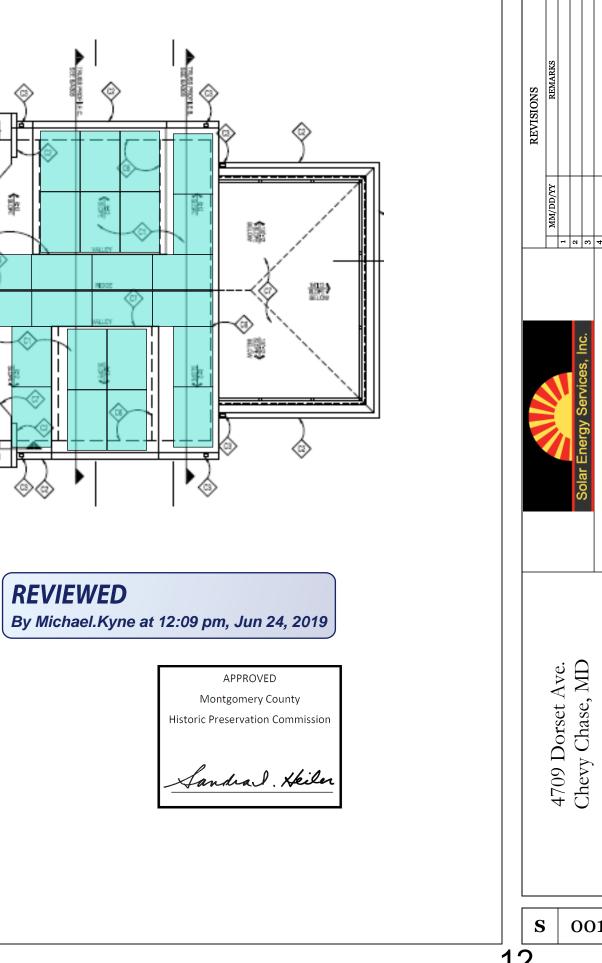
This HAWP approval is subject to the general condition that the applicant will obtain all other applicable Montgomery County or local government agency permits. After the issuance of these permits, the applicant must contact this Historic Preservation Office if any changes to the approved plan are made. Once work is complete the applicant will contact Michael Kyne at 301.563.3400 or michael.kyne@montgomeryplanning.org to schedule a follow-up site visit.

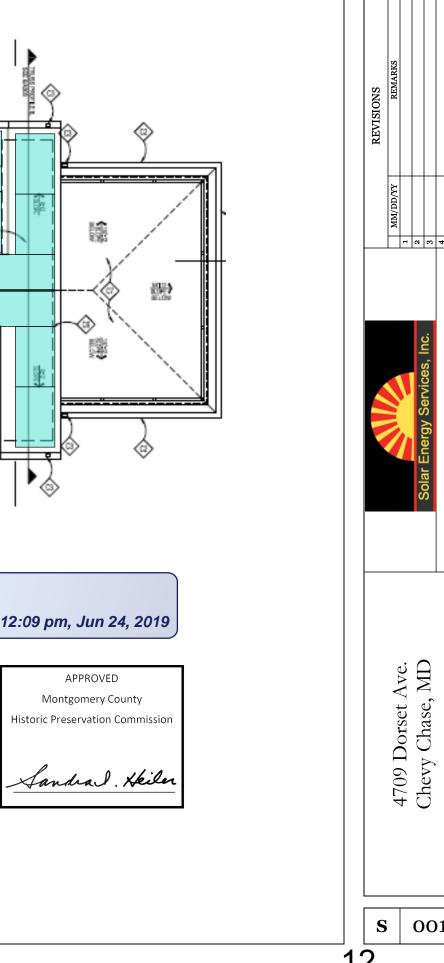


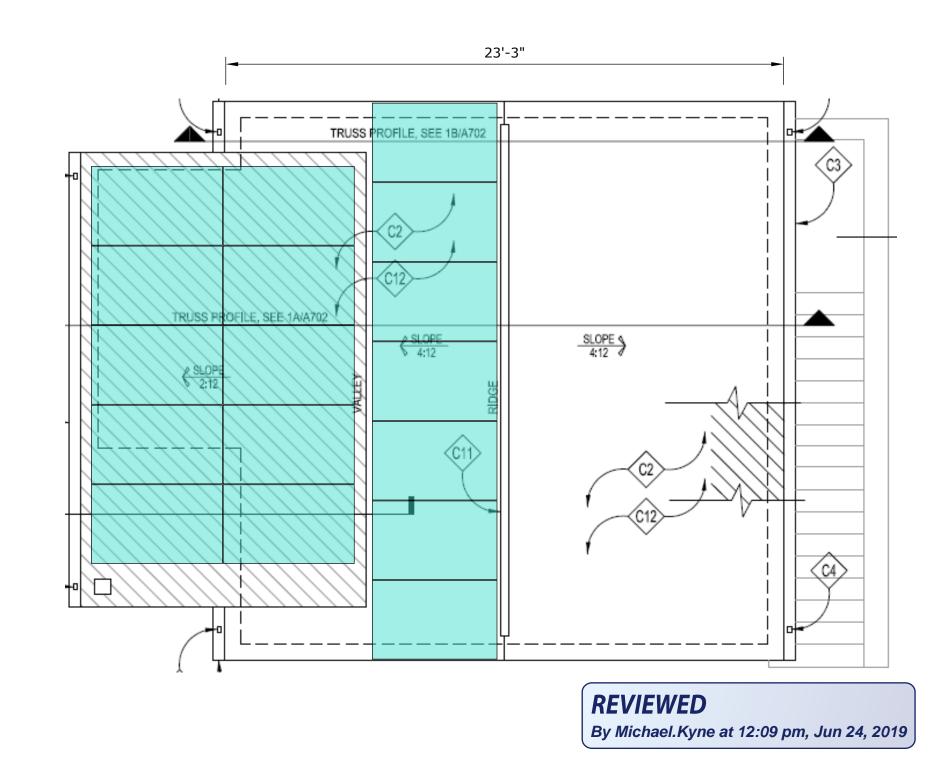












4709 Dorset Ave. Chevy Chase, MD 1514 Jabez Run, Suite # 103 Millersville Maryland, 21108								
Solar Energy Services, Inc. 1514 Jabez Run, Suite # 103 Millersville Maryland, 21108	REVISIC MM/DD/YY 2 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		$1700 D_{0.2004} A_{110}$	4/UZ DUISELAVE.	Channe Chana MD	CIICVY CIIASC, IVILU		
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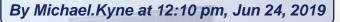
APPROVED Montgomery County Historic Preservation Commission

Sandral. Heiler

MSE PERC 60

High Power PERC Rooftop Module

REVIEWED



MISSION SOLAR



Class Leading Output: 300W power

Advanced Technology: Montgomery County PERC and 4 busbars di Version Preservation Commission >18% module efficiency

APPROVED



Superior Aesthetics: All-black design coupled with outstanding power output *Landral* . Keiler



Certified Reliability: 3X IEC, salt mist, ammonia



5600 Pa snow load **New!** 175 mph wind rating



Buy American Act

Proudly assembled in the USA

Mission Solar Energy is headquartered in San Antonio, TX with module facilities onsite. Our hardworking team calls Texas home and is devoted to producing high quality solar products and services. Our supply chain includes local and domestic vendors increasing our impact to the U.S. economy.



CERTIFICATIONS

IEC 61215/ IEC 61730/ IEC 61701 UL 1703



*As there are different certification requirements in different markets, please contact your local Mission Solar Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.



Superior Aesthetics

MSE PERC 60's slick all-black design coupled with outstanding power output makes it ideal for DG installations including commercial and rooftop systems.

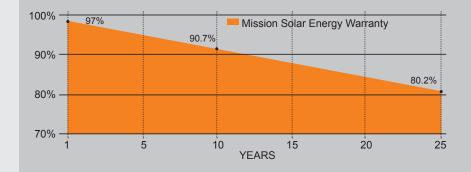
Outstanding performance with PERC

Passivated Emitter Rear Contact (PERC) technology provides excellent power output through advanced cell structure.

Best in class quality

Mission Solar Energy production lines are fully automated and include multiple quality checks throughout the production process.

25-YEAR LINEAR WARRANTY



ELECTRICAL SPECIFICATIONS

Electrical parameters at Standard Test Condition (STC)

Module Type			MSE290SQ5T	MSE295SQ5T	MSE300SQ5T
Power Output	Pmax	Wp	290	295	300
Module Efficiency		%	17.45	17.75	18.05
Tolerance				0~+3%	
Short-Circuit Current	lsc	Α	9.44	9.52	9.61
Open Circuit Voltage	Voc	V	39.81	40.11	40.18
Rated Current	Imp	Α	8.95	9.03	9.17
Rated Voltage	Vmp	V	32.54	32.72	32.80

STC: Irradiance 1000 W/m2, Cell temperature of 25°C, AM 1.5

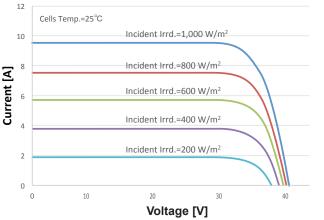
TEMPERATURE COEFFICIENTS

Normal Operating Cell Temperature (NOCT)	44°C (±2°C)
Temperature Coefficient of Pmax	-0.427%/°C
Temperature Coefficient of Voc	-0.318%/°C
Temperature Coefficient of Isc	0.042%/°C

OPERATING CONDITIONS

Maximum System Voltage	1,000VDC
Operating Temperature Range	-40°C (-40°F) to +90°C (194°F)
Maximum Series Fuse Rating	15A
Fire Safety Classification	Type 1, Class C
Front & Back Load (UL standard)	5600 Pa (117 psf) New!
Hail Safety Impact Velocity	25mm at 23 m/s

MSE295SQ5T: 295WP, 60CELL SOLAR MODULE CURRENT-VOLTAGE CURVE



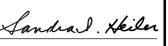
Current-voltage characteristics with dependence on irradiance and module temperature

BASIC DESIGN (UNITS: mm)

MECHANICAL DATA

999 00 Solar Cells P-type Mono-crystalline Silicon (156.75mm) - 35.00 35.00 437.00 60 cells (6x10), 4 busbar Cell orientation Drain Hole 297.00 1664mm x 999mm x 40mm Module dimension 77.00 (65.51 in. x 39.33 in. x 1.57 in.) 832.00 Mounting Hole Weight 18.2 kg (40.1 lb) REVIEWED 3.2mm (0.126 in.) tempered, Grounding Front Glass Hole Low-iron, Anti-reflective coating By Michael.Kyne at 12:10 pm, Jun 24, 2019 Anodized aluminum alloy Frame 832.00 Ethylene vinyl acetate (EVA) Encapsulant 4.50 15.00 -Protection class IP67 with 3 bypass-diodes J-Box 7.00 APPROVED 156.75 7.25 4.00 282.00 156.75 10.0 PV wire, 1m (39.37 in.), 4mm² / 12 AWG Montgomery County Cables Historic Preservation Gannyiesion MC4 or compatible Front View Connector





Mission Solar Energy reserves the right to make specification changes without notice.

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REVIEWED By Michael.Kyne at 12:11 pm, Jun 24, 2019

Series 100



The Installers Choice for Residential Solar Mounting



Entire Mounting System from Single Manufacturer under 1 Warranty



Snap-in features make the install process intuitive and fast





The Most Comprehensive UL 2703 Listing in the Industry

Start Mounting Solar on Your Roof Today

RESOURCES DESIGN WHERE TO BUY snapnrack.com/resources snapnrack.com/configurator snapnrack.com/where-to-buy 1



Series 100

The SnapNrack Series 100 Roof Mount System

is designed to provide the lowest total install cost of any residential mounting system.

REVIEWED

By Michael.Kyne at 12:11 pm, Jun 24, 2019

The top-of-the-line features of the SnapNrack mounting system reduce instalkumes and labor cost while eliminating the need for service calls Mereating the lowest install lifecycle cost of any mounting system.

Historic Preservation Commission





Wire Management

- Products such as the standard rail channel keep wires neatly organized providing a clean finished look to every install
- Industry's largest offering of wire management accessories include snap in junction box, 4-wire and trunk cable clamps, as well as conduit clamps for both composition shingle and tile roofs.

Undeniable Aesthetics

- Render the mounting system invisible by using Universal End Clamps that fasten modules while remaining hidden underneath the array
- Array skirt provides a sleek look and attractive design to the front of the array
- Rail-based system provides rigid structure tucked away underneath array with no unsightly mounts at the top or bottom

Quality. Performance. Innovation.

SnapNrack solutions are focused on simplifying the installation experience through intuitive products and the best wire management in the industry.



www.snapnrack.com

877-732-2860

contact@snapnrack.com

