EXPEDITED MONTGOMERY COUNTY HISTORIC PRESERVATION COMMISSION STAFF REPORT

Address: 18608 Bransford Place, Olney Meeting Date: 5/21/2019

Resource: Master Plan Site #23/148 **Report Date:** 5/14/2019

(Chichester House)

Public Notice: 5/7/2019

Applicant: Frank Colleli and Kristin Mullenholz

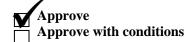
(Zach Neubauer, Agent) Tax Credit: N/A

Review: HAWP Staff: Michael Kyne

Case Number: 22/13-19A

PROPOSAL: Solar panel installation

STAFF RECOMMENDATION:



ARCHITECTURAL DESCRIPTION

SIGNIFICANCE: Master Plan Site #22/13, *Chichester House* STYLE: Romantic Revival (Chichester House)

DATE: c. 1890s (Chichester House); 2009 (Subject Property House)



Fig. 1: Subject property and proposed solar panel plan.

PROPOSAL:

The historic resource (Chichester House) was destroyed by fire in 1999. The subject property house was constructed within the environmental setting in 2009. The applicants propose to install flush-mounted solar panels on the roof of the c. 2009 subject property house.

APPLICABLE GUIDELINES:

Policy On Use of Expedited Staff Reports for Simple HAWP Cases

- IV. The Expedited Staff Report format may be used on the following type of cases:
 - 2. Modifications to a property, which do not significantly alter its visual character.

Montgomery County Code; Chapter 24A-8

- (b) The commission shall instruct the director to issue a permit, or issue a permit subject to such conditions as are found to be necessary to insure conformity with the purposes and requirements of this chapter, if it finds that:
 - (1) The proposal will not substantially alter the exterior features of an historic site or historic resource within an historic district; or
 - (2) The proposal is compatible in character and nature with the historical, archeological, architectural or cultural features of the historic site or the historic district in which an historic resource is located and would not be detrimental thereto or to the achievement of the purposes of this chapter; or
 - (3) The proposal would enhance or aid in the protection, preservation and public or private utilization of the historic site or historic resource located within an historic district in a manner compatible with the historical, archeological, architectural or cultural value of the historic site or historic district in which an historic resource is located; or
 - (4) The proposal is necessary in order that unsafe conditions or health hazards be remedied; or
 - (5) The proposal is necessary in order that the owner of the subject property not be deprived of reasonable use of the property or suffer undue hardship; or
 - (6) In balancing the interests of the public in preserving the historic site or historic resource located within an historic district, with the interests of the public from the use and benefit of the alternative proposal, the general public welfare is better served by granting the permit.
- (c) It is not the intent of this chapter to limit new construction, alteration or repairs to any 1 period or architectural style.

Secretary of Interior's Standards for Rehabilitation

The Secretary of the Interior defines rehabilitation as "the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features, which convey its historical, cultural, or architectural values." The *Standards* are as follows:

2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.

STAFF RECOMMENDATION:

Staff recommends that the Commission <u>approve</u> the HAWP application under the Criteria for Issuance in Chapter 24A-8(b), (1) & (2) having found that the proposal will not substantially alter the exterior features of the historic resource and is compatible in character with the purposes of Chapter 24A;

and with the Secretary of the Interior's Standards for Rehabilitation #2;

and with the general condition that the applicant shall present the **3 permit sets of drawings**, **if applicable**, **to Historic Preservation Commission (HPC) staff for review and stamping** prior to submission for the Montgomery County Department of Permitting Services (DPS) building permits;

and with the general condition that the applicant shall notify the Historic Preservation Staff if they propose to make **any alterations** to the approved plans;

and with the general condition that final project design details, not specifically delineated by the Commission, shall be approved by HPC staff or brought back to the Commission as a revised HAWP application at staff's discretion.

Once the work is completed the applicant will <u>contact the staff person</u> assigned to this application at 301-563-3400 or michael.kyne@montgomeryplanning.org to schedule a follow-up site visit.

DP8-##



HISTORIC PRESERVATION COMMISSION 301/563-3400

APPLICATION FOR HISTORIC AREA WORK PERMIT

Contact mail, Zneu	hanera	Salaranes	Contact Person:	Zach Ne	vbauer
		Waril Com	ODaytima Phone No.:	410 579	5172
Tax Account No.: 08 -	03613107				
Name of Property Owner: Fra.	nk Colleli i	Kristin Mi	ILENHOIZ Daylime Phone Ne.:	301 520	2902
Address: 18608 Brain Street Munder	sford flace	: - Olney	M)	9083 <i>9</i>
Contraction: Solar En	ergy Worl	d, Lic.	Steel Steel Mars	410 579	2009
Contractor Registration No.: 12	HA COLUMN	\$ 33-O3	84821	1,0 2/1	8001
Agent for Owner:			Daviere Phone No.:	410.579	2082
House Humber: 1860 8			Bransfe	ri Pla	
		Manuari Casas Shorts	Fair Hin	Road	<u>.c</u>
or: 48 Brock:	B Subdivisi	The Ro	<u>Fair Hin</u> eserve at	Fair Hi	11 - 0080
Liber; Folio:	Peak	*			
AND THE OFFER	PAGES TRACTOR				
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Construct	☐ Altar/Renovate		APPLICABLE:	Addison The s	5
☐ Meve 💥 Install	□ Wind/Ras	4.7			O Deck O Shed
. Revision D Repair	Revocable.		☐ Fireplace ☐ Woodb Vall (complete Section 4)		☐ Single Family
B. Construction cost estimate: \$	29,000	_ ,,,,,,,,		C 0416;	
C. If this is a revision of a previous	ly approved active pennit	, see Permit # N/A			
PART TWO: COMPLETE FOR N	aWeathern Beath	Da Lavin Brown Annie	KNIS		
A. Type of sewage disposal:	81 🗆 WSSC	02 🗆 Septic	NONE 03 🗀 Other:		
B. Type of water supply:	01 🗆 WSSC	OZ [] Well	03 🗆 Other:		
A THE PARTY OF THE	FOR FERICE/RETAININ	Villa Children			
ART THREE COMMUNICATION V	inches	IN WALL			
B. Indicate whether the fence or a		networked on one of the f			
13 On party line/property line	☐ Entirely on				
	C CHILAY III	enio 61 Attilità	☐ On public right of v	vay/assement	
hereby certify that I have the evalu- oproved by all agencies listed and	rity to make the foregoin	g application, that the a	pplication is correct, and	that the construction i	vill comply with plans
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Select ,			Ч	-30-/9	
Signature of ow	Net or authorized agent			<u> </u>	100
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plication/Parmit No.:	Signature;	F-1- #4		Chie;	-
		Deta file		_ Onto issued:	
it 6/21/99	SEE REVE	<u>RSE SIDE FOR</u>	INSTRUCTIONS	i	

Edit 6/21/99

on the home of

Frank Colleli & Kristen Mullenholz, 18608 Bransford Pl., Olney, MD 20832

- Written description of the project
 - a. The existing structure is a Colonial style, two-story, single family home. It was constructed in 2009.
 - b. The proposed solar system will be flush-mounted to portions of the front (southwest and southeast-facing), and back (north-facing) roofs on the primary sections of the home. The majority of the solar panels will be on the south facing roofs of the building. The height and tilt of the roof will pose little disruption to the environment of the neighborhood, as it will be virtually unnoticeable from the street level. Conduit can be run from the roof to ground by tucking it behind a downspout on the side of the home, then running it along the underside of protruding brick to the equipment. We have had issues with painting conduit in the past, as it is galvanized and does not accept paint well. As a result, we typically either bring the conduit to the basement inside the home, when possible, or physically hide the conduit as best as we can
- 2. Site Plan
 - a. Please see attached Solar Panel Layout
 - b. 2 copies, 11"x17"
- 3. Plans & Elevations
 - a. N/A
- 4. Materials Specifications
 - a. Please see attached spec sheets for module and inverter
- 5. Photographs
 - a. Please see photos below
- 6. Tree Survey no trees will be disturbed or removed as part of this work

April 23, 2019

on the home of

Frank Colleli & Kristen Mullenholz, 18608 Bransford Pl., Olney, MD 20832

7. Addresses of Adjacent and Confronting Property Owners

Owner's mailing address	Owner's agent mailing address
Frank Colleli & Kristen Mullenholz	Solar Energy World
18608 Bransford Place	5681 Main St.
Olney, MD 20832	Elkridge, MD 21075
Adjacent and confronting prop	perty owners mailing addresses
Lot 49, Block B	Gray & Jeannine Williams
Adjacent	18606 Bransford Place
	Olney, MD 20832
Lot 47, Block B	Baqar & Tehseen Naqvi
Adjacent	18610 Bransford Place
	Olney, MD 20832
Lot 50, Block B	Minh & Linh Nguyen
Confronting	18604 Bransford Place
	Olney, MD 20832
Lot 51, Block B	Christopher & Christine Bina
Confronting	18602 Bransford Place
	Olney, MD 20832

on the home of

Frank Colleli & Kristen Mullenholz, 18608 Bransford Pl., Olney, MD 20832

Existing Property Condition Photographs



Front view





East view

West view

on the home of

Frank Colleli & Kristen Mullenholz, 18608 Bransford Pl., Olney, MD 20832

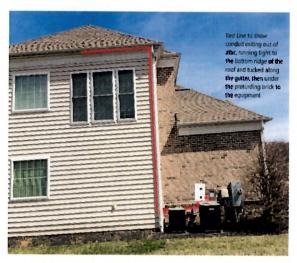
Equipment Location, Before and After Installation





Proposed Conduit Locations



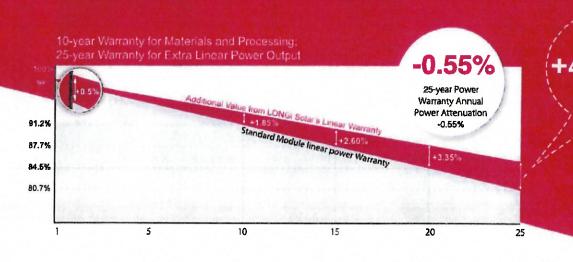




LR6-60PB 295~315M

Hi-MO1 High Efficiency Low LID Mono PERC Technology (60C/AII Black Module)

Aesthetic appearance with black frame and backsheet, best suited for rooftop installation



Complete System and Product Certifications

IEC 61215, IEC61730, UL1703

ISO 9001:2008: ISO Quality Management System

ISO 14001: 2004: ISO Environment Management System

TS62941: Guideline for module design qualification and type approval OHSAS 18001: 2007 Occupational Health and Safety







 Specifications subject to technical changes and tests. LONGi reserves the right of interpretation. Positive power tolerance (0 ~ +5W) guaranteed

High module conversion efficiency (up to 19.3%)

Slower power degradation enabled by Low LID Mono PERC technology: first year <2%, 0.55% year 2-25

Better energy yield with excellent low irradiance performance and temperature coefficient

Solid PID resistance ensured by solar cell process optimization and careful module BOM selection

Adaptable to harsh environment: passed rigorous salt mist and ammonia tests

Robust frame (40mm) withstands mechanical loading of 5400Pa for snow load on front and 2400Pa for wind load on rear side



Room 201, Building 8, Sandhill Plaza, Lane 2290, Zuchongzhi Road, Pudong District, Shanghai, 201203 Tel + 86-21-61047332 Feb +86-21-61047377 Februar module@longi-silicon.com Februar www.facebook.com/LONGI Solar

Note: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. LONGI So'ar have the sole right to make such modification at anytime without further notice, Demanding party shall request for the latest datasheet for such as contract need, and make it a consisting and binding part of lawful documentation duly signed by both parties

LR6-60PB 295~315M

Design (mm)

Wests name following to the Army following the control of the cont

Mechanical Parameters

Cell Orientation, 60 (6×10)
Junction Box: IP67, three diodes
Output Cable: 4rrm*, 1000mm in length
Connector: MC4 or MC4 comparable
Weight: 18 Skg

Dimension: 1650×991×40mm Packaging: 26pcs per pallet

Operating Parameters

Operational Temperature: -40 $^{\circ}$ C $^{\circ}$ ±85 $^{\circ}$ C Power Output Tolerance: 0 $^{\circ}$ +5 W

Maximum System Voltage: DC1000V (IEC&UL)

Maximum Series Fuse Rating. 20A

Nominal Operating Cell Temperature: 45±2 C

Application Class: Class A

Electrical Characteristics										
Madel Number	LR6-60	PB-295M	LR6-60	PB-300M	LR6-60	PB-305M	LR6-60	PB-310M	LR6-608	9-315N
*esting Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOC
Maximum Power (Pmax/W)	295	218.5	300	222.2	305	225.9	310	229 5	315	233.4
Open Circuit Voltage (Voc/V)	39.9	37.2	40 1	37.4	40.2	37 5	40.3	37 6	40.5	37.8
Short Circuit Current (Isc/A)	9.69	7.81	9 81	7 91	9.94	8.01	9 98	8.04	10 10	8.14
Voltage at Maximum Power (Vmp/V)	32.6	30.1	32 8	30 3	33.0	30 5	33 2	30.7	33 4	30 9
Current at Maximum Power (Imp/A)	9.05	7.26	9 15	7.34	9.24	741	9 35	7 50	9 43	7 56
Module Efficiency(%)	15	3.0	14	B.3	1	87	1	9.0	2	9,3

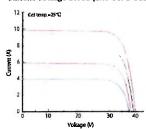
STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 C , Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambrent Temperature 20 C., Spectra at AW1.5, Wind at 1m/S

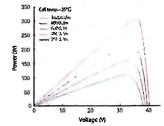
Temperature Ratings (STC) Mechanical Loading Temperature Coefficient of isc +0.057%/C Front Side Maximum Static Loading 5400Pa Temperature Coefficient of Voc 0.285%/C Rear Side Maximum Static Loading 2400Pa Temperature Coefficient of Pmax -0.370%/C Hallstone Test 25mm Hallstone at the speed of 23m/s

1-V Curve

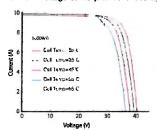
Current-Voltage Curve (LR6-60PB-30SM)



Power-Voltage Curve (LR6-60PB-305M)



Current-Voltage Curve (LR6-60PB-305M)





Room 201, Building 8, Sandhill Plaza, Lane 2290, Zuchongzhi Road, Pudong District, Shanghai, 201203 1et + 86-21-61047332 Fax +86-21-61047377 Frank module@longl-silicon.com Facebook www.facebook.com/LONGI Solar

Note: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. LONGI Solar have the sole right to make such modification at anytime without further notice; Demanding party shall request for the latest datasheet for such as contract need, and make it a consisting and binding part of lawful documentation duly signed by both parties.

solaredge

Single Phase Inverter with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/SE7600H-US/SE10000H-US/SE11400H-US



Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking efficiency
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014 and 2017, per article 690.11 and 690.12
- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Extremely small
- High reliability without any electrolytic capacitors
- Built-in module-level monitoring
- Outdoor and indoor installation
- Optional: Revenue grade data, ANSI C12.20 Class 0.5 (0.5% accuracy)



S

INVERT

www.solaredge.us

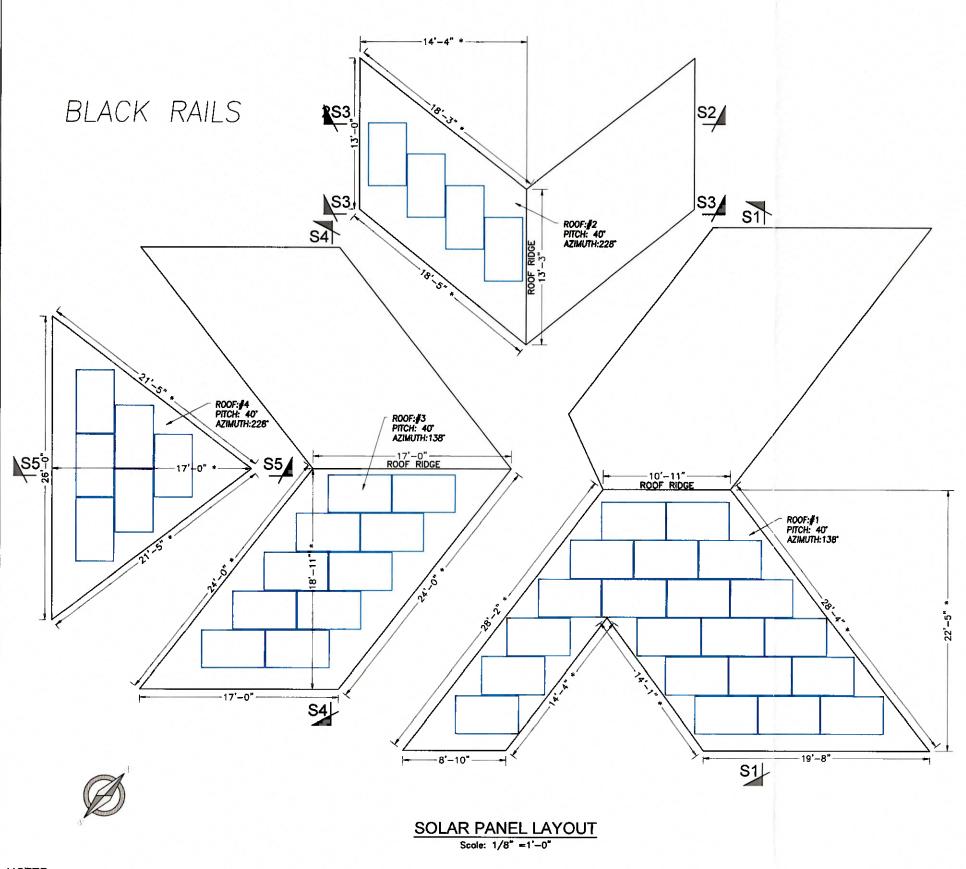


Single Phase Inverter with HD-Wave Technology for North America SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

OUTPUT	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-U5	SE11400H-US	
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400	VA
Max. AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400	VA
AC Output Voltage MinNomMax. (183 - 208 - 229)		√						Vac
AC Output Voltage MinNomMax.		,	,	,	,	,	,	Vac
(211 - 240 - 264) AC Frequency (Nominal)				59.3 - 60 - 60.5 ¹	1)	*	,	Hz
Maximum Continuous Output Current 208V		15		24	-			A
Maximum Continuous Output Current	12.5	16	21	25	32	42	47.5	Α
@240V GFDI Threshold		************		l				ΑΑ
Utility Monitoring, Islanding Protection, Country Configurable Thresholds INPUT				Yes				
Maximum DC Power @240V Maximum DC Power @208V Transformer-less, Ungrounded	4650	5900 5100	7750	9300 7750 Yes	11800	15500	17650	W.
Maximum Input Voltage Nominal DC Input Voltage Maximum Input Current 208V	- !	9	80	480 13.5		400		Vdc Vdc
Maximum Input Current @240V Max. Input Short Circuit Current	8.5	10.5	13.5	16.5 45	20	27	30.5	Adc Adc
Reverse-Polarity Protection Ground-Fault Isolation Detection Maximum inverter Efficiency CEC Weighted Efficiency	99			Yes 600ku Sensitivity 99	/ .2			% %
Nighttime Power Consumption			********	< <u>2.5</u>				w
ADDITIONAL FEATURES Supported Communication Interfaces		29	ARS Etharnet 7	igBee (optional),	Collular (antio			
Revenue Grade Data, ANSI C12.20 Rapid Shutdown - NEC 2014 and 2017				Optional ⁽²⁾	• • • • • • • • • • • • • • • • • • • •	********		
690.12 STANDARD COMPLIANCE		Aı	itomatic Rapid S	Shutdown upon A	AC Grid Disconn	ect		
Safety Grid Connection Standards Emissions	UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.1, M-07 IEEE1547, Rule 21, Rule 14 (HI)							
INSTALLATION SPECIFICATIONS				CC Part 15 Class	В			
AC Output Conduit Size / AWG Range DC Input Conduit Size / # of Strings /	3/4" minimum / 14-6 AWG 3/4" minimum / 14-4 AWG 3/4" minimum / 1-3 strings / 3/4" minimum / 1-3 strings /							
AWG Range	3/4 Initialization / 1-2 Strings / 14-6 AWG							
Dimensions with Safety Switch (HxWxD) Weight with Safety Switch	17.7 X 14.6 X 6.6 7 450 X 570 X 174 X 185						15	in/mm
Noise		<2	25.1/11.4 25.1/11.4	40.4/		38.8 / <50		lb / kg dBA
Cooling Operating Temperature Range		Natural Co		5 to +60 ^(a) (-40°F		latural convection	1	*F/*C
Protection Rating		***************************************		Inverter with Saf		*********	TITATI KATE	16 11111

® RoHS





PROPOSED PV ARRAY LOCATION

SolarEnergyWorld

Because Tomorrow Matters
Solar Energy World LLC.
5681 Main Street

Elkridge, MD 21075 (888) 497-3233

This drawing is the property of Solar Energy World Inc. The information herein contained shall be used for the sole benefit of Solar Energy World. It shall not be disclosed to others outside the recipient's organization, in whole or in part, without the written permission of Solar Energy World, except in connection with the sole and use of the respective Solar Energy equipment.

HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 50459, EXPIRATION DATE: January 12, 2021.

*STAMPED AND SIGNED FOR STRUCTURES ONLY

REV	DESCRIPTIONS	BY	DATE	
01	Made E001, S001, S002 and S003.	JMP	4/5/2019	
			* - 1* -	

Frank Colleli & Kristen Mullenholz 18608 Brandsford Pl. Olney, MD 20832 12.505 kW

CHS	Sheet
5-APRIL-2019	□A()()1
AS NOTED	7 .00.

NOTES:

- 1. THE SYSTEM SHALL INCLUDE [41] LONGI LR6-60PB 305W MODULES.
- 2. SNAPNRACK SOLAR MOUNT RAIL WILL BE INSTALLED IN ACCORDANCE WITH SNAPNRACK INSTALLATION MANUAL.
- 3. DIMENSIONS MARKED (*) ARE ALONG ROOF SLOPE.
- 4. REFER TO STRUCTURAL DRAWING FOR SECTIONS MARKED AND ADDITIONAL NOTES.