

Menu Save Reset Cancel Help

Record Detail * (This section is required.)

Case

EH-PLANS-25-0

Type

EnvHealth/Environmental Health/Plan Check/Application

Status

In Review

Opened Date

11/10/2025

Single Entry Edit-View Record Form

Application Name

B25004994

Description

SFD / INSTALL (55) GROUND MOUNTED SOLAR PANSFD / INSTALL (55) GROUND MOUNTED SOLAR PANELS, 22.27 KW**SUBJECT TO FIELD INSPECTION**ELS, 22.27 KW**SUBJECT TO FIELD INSPECTION**

Total Invoiced

0.00

Total Paid

0.00

Balance

0.00

Assigned to Department Current Department

Well and Septic Progr

Assigned to Staff Current User

Zack Silvast

Address * (This section is required.)

New	Search	Delete	Set Primary										
☐ Primary	<u>Street # (start)</u>	<u>Direction</u>	<u>Street Name</u>	<u>Street Type</u>	<u>City</u>	<u>State</u>	<u>Zip Code</u>	<u>Address Status</u>	<u>Street Suffix (Direction)</u>	<u>Unit Type</u>	<u>U</u>		
☐ ☒	3710		Sharp	RD	Glen...	MD	21738						

Parcel (This section is not required.)

Search	Delete	Get Address & Owner		Set Primary									
☐ Primary		<u>Parcel #</u>	<u>Book</u>	<u>Page</u>	<u>Parcel</u>	<u>Parcel Area</u>	<u>Land Value</u>	<u>Improved Value</u>	<u>Exemption Value</u>	<u>Legal Description</u>	<u>Tract</u>		
0 record(s) found.													

Owner (This section is not required.)

Search	Delete	Set Primary											
☐ Primary		<u>Name</u>	<u>Mail Address Line1</u>	<u>Mail Address Line2</u>	<u>Mail Address Line3</u>	<u>Mail City</u>	<u>Mail State</u>	<u>Mail Zip Code</u>	<u>Phone</u>	<u>Country/Region</u>	<u>U</u>		
☐ ☒		Yan Huang	3710 Sharp Rd.			Glenwood	MD	21738		US			

Applicant * (This section is required.)

Search As Owner As Lic. Prof As Contact

Single Entry Applicant Form

Type *

Applicant

Primary

Yes

First Name *

Kristin

Middle Name

Last Name *

Manzo

Home Phone ((xxx)xxx-xxxx)

Organization Name *

Solar Energy World

Mobile Phone ((xxx)xxx-xxxx)

(410) 579-5167

E-mail

Online BP. g8 11/16/25

Approved ME
12/4/2025

permitting@SOLAR-ENERGYWORLD.COM

Business Phone (XXX)XXX-XXXX

Preferred Channel

--Select--

Applicant Address

New

Look Up

Deactivate

Remove

Custom Fields

DATE TRACKING

Received Date

11/10/2025



Due Date

11/10/2025



Dates to Complete

14

(Number)

Received by Food



Food Review Type

--Select--

Equipment Specification Sheets Submitted



Equipment Specification Sheet

Received by Community Hygiene



Received by Well and Septic

11/10/2025



FACILITY INFORMATION

Name of Business (dba) *

n/a (Text)

Associated Building Permit Number

(Text)

Owner Switch Date



Does the project include an Aquatic Facility such as a Public Pool? If Yes, forward to CH Program.

☐ Yes ☐ No

Does the project include Private Septic? If Yes, forward to WS Program.

☐ Yes ☐ No

Is this a Prototype Food Service Facility? If Yes, refer to State.

☐ Yes ☐ No

Facility Fax

0 (Text)

Days of Operation

0 (Text)

Does this project have a Building Permit?

☐ Yes ☐ No

Building Permit Issued Date

☐ Non-Profit

Does the project include Private Well? If Yes, forward to WS Program.

☐ Yes ☐ No

Does the project include Food Services? If Yes, forward to FP Program.

☐ Yes ☐ No

Facility Phone

0 (Text)

Facility Email

0 (Text)

PROPERTY INFORMATION

Water Source

Private



Sewage Disposal

Private



Design Wastewater Flow

(Number)

Permit Type

--Select--

PLAT STATS

Total Number of buildable lots to be recorded

0 (Number)

Total number of open space lots to be recorded

0 (Number)

Total number of bulk parcels to be recorded

0 (Number)

Total number of lots / parcels to be recorded

0 (Number)

New buildable lots created

0

(Number)

Date PLAT signed by Health Officer



PLAT Type

--Select--

Date Preliminary Plan Signed by HO

☐ Extension Granted

DEVELOPMENT PLANS

Property Type

Residential



Plan Version

Initial



Signature Required

☐ Yes ☐ No

Engineer

0

(Text)

Number of paper copies

0

(Number)

Number of mylar copies

0

(Number)

Number of buildable lots created

Number of non-buildable lots created

0 (Number)	0 (Number)
Total Number of Lots	Associated Plans
0 (Number)	

WELL AND SEPTIC INTERNAL

State Review Required	Coordinate State Review
☐ Yes ☐ No	☐ Yes ☐ No
Proposed Septic System Type	
--Select--	

FOOD ESTABLISHMENT FACILITY

Priority Assessment	Licensed Type
--Select--	--Select--
License Category	
--Select--	

FOOD ESTABLISHMENT INFORMATION

Hours of Operation	☐ Operating Seasonally Only
(Text)	
If Operating Seasonally. What is the start month?	Are pets allowed in a outdoor seating area?
(Text)	☐ Yes ☐ No
Full Bar?	
☐ Yes ☐ No	

RESTAURANT AND FOOD SERVICE

Food Service Facility Secondary Category	Total Seating Capacity
--Select--	(Number)
Number of Restrooms	Interior Restaurant Seating Capacity
(Number)	(Number)
Bar Seating Capacity	Outdoor Seating Capacity
(Text)	(Text)
Does the restaurant have outdoor seating	
☐ Yes ☐ No	

EQUIPMENT

Evaluated non NSF, ANSI, CF or other standards	Description of Refrigeration Units
☐ Yes ☐ No	
Number of Walk-In Refrigerator Units	Description of Walk-In Freezer Units
(Number)	(Text)
Is there a bulk ice machine available	Space Limitation
☐ Yes ☐ No	
Number of Hand Sinks Available	Hood System
(Number)	(Text)
Ventless Equipment	
(Text)	

PLUMBING

Size and Installation of the water heater?	Is there a grease Interceptor or grease trap?
(Text)	--Select--

REFUSE AND RECYCLABLES

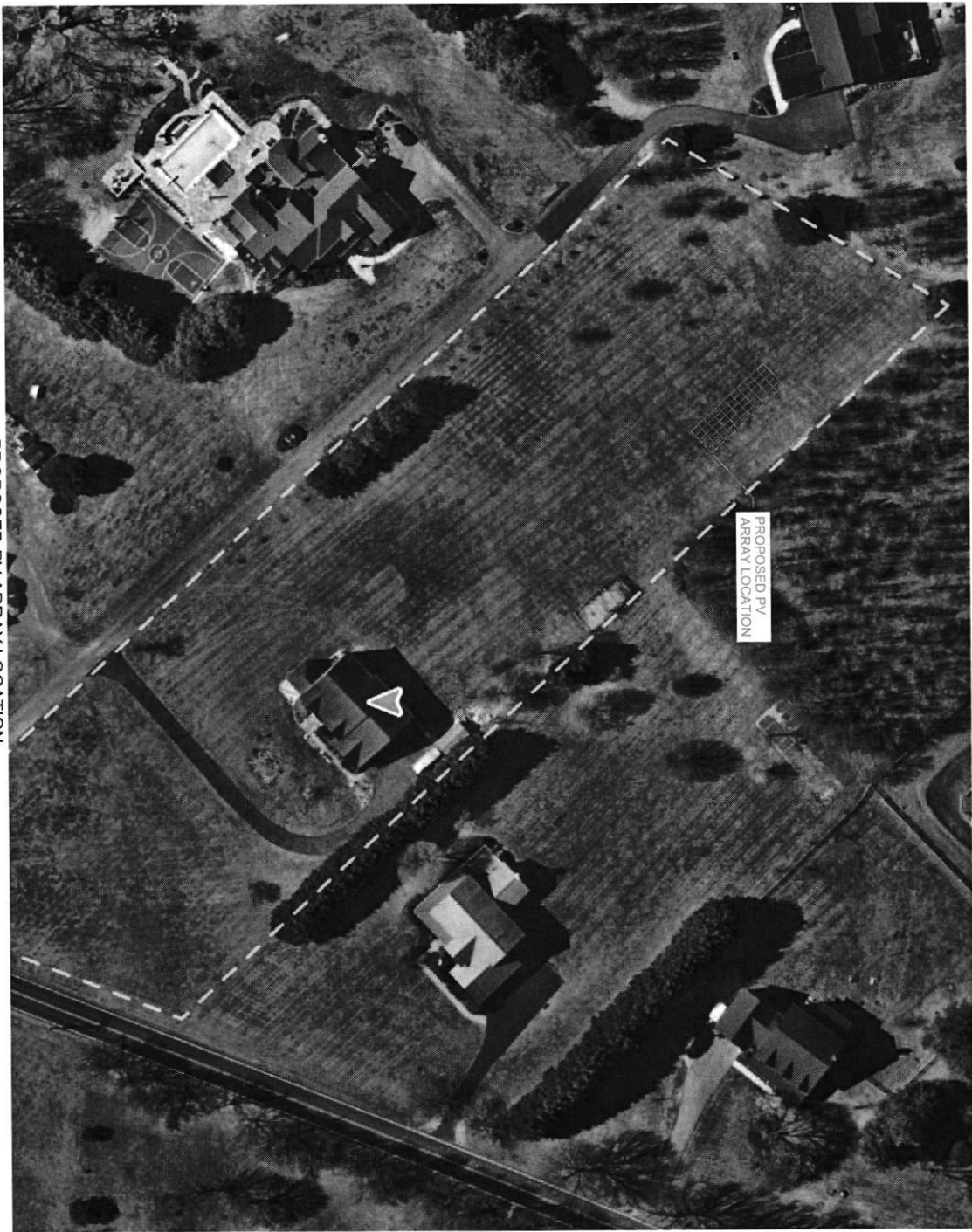
Dumpsters Located on a impervious surface?	Will there be a grease receptacle?
--Select--	--Select--

WAREWASHING DISHWASHING

Dishwashing Method
--Select--

HACCP

Plan Review Response Letter Received	Date HACCP Approved by the State
☐ Yes ☐ No	
Date HACCP Plan Submitted	HACCP Plan Approved



KEY

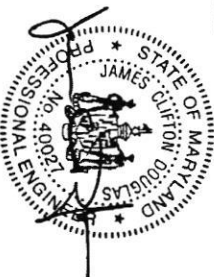
AREA TO BE CLEARED
PRIOR TO INSTALL

PROPOSED PV ARRAY LOCATION

Scale: NTS

James C
Douglas

Digitally signed by
James C Douglas
Date: 2025.10.21
16:19:53 -0400



Professional Certification: I hereby certify that these documents were prepared or approved by me or under my direct supervision and I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 40027, Expiration Date: 3/19/27.



SolarEnergyWorld
Because Tomorrow Matters

Solar Energy World LLC
14880 Swallow Lane
Lanett, MD 20707
(888) 691-3253

Notwithstanding to the property of Solar Energy World LLC, the information herein contained shall be used for the sole benefit of Solar Energy World, LLC and shall not be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Solar Energy World, LLC.

International Residential Code (IRC) 2023

National Electrical Code (NEC) 2021

115 MPH 40 PSF

(55) LONGI LR5-54HPB-405M

(2) Tesla 1538000-xx-y (7.6 kW)

22.275 kW 15,200 kW

Yan Huang
3710 Sharp Rd
Glenwood, MD, 21738

None

Howard BEC

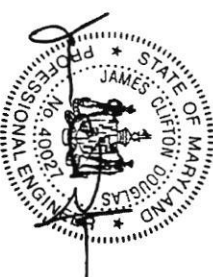
Proposed PV Array Location

AT September 12, 2025

AS NOTED MD26918 A-1

James C Douglas
Digitally signed by James C Douglas
Date: 2025.10.21 16:20:19 -0400

Professional Certification: I 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. 40027, Expiration Date: 3/15/27.



Engineering Review is Limited Solely to the Structural Design of the S/U-USA Structure. It Excludes All Civil, Electrical, and Other Non-Structural Project Elements.



SolarEnergyWorld
BECAUSE TOMORROW MATTERS
Solar Energy World LLC
14880 Shaver Lane
Suite 200
Baltimore, MD 21244
(410) 497-3223

This drawing is the property of Solar Energy World LLC. The information herein contained shall be used only for the project and site identified herein. It shall not be disclosed to others outside the recipient's organization without the written consent of Solar Energy World LLC. The recipient shall be responsible for the connection with the site and use of the respective code energy equipment.

International Residential Code (IRC) 2023

National Electrical Code (NEC) 2021

115 MPH 40 PSF

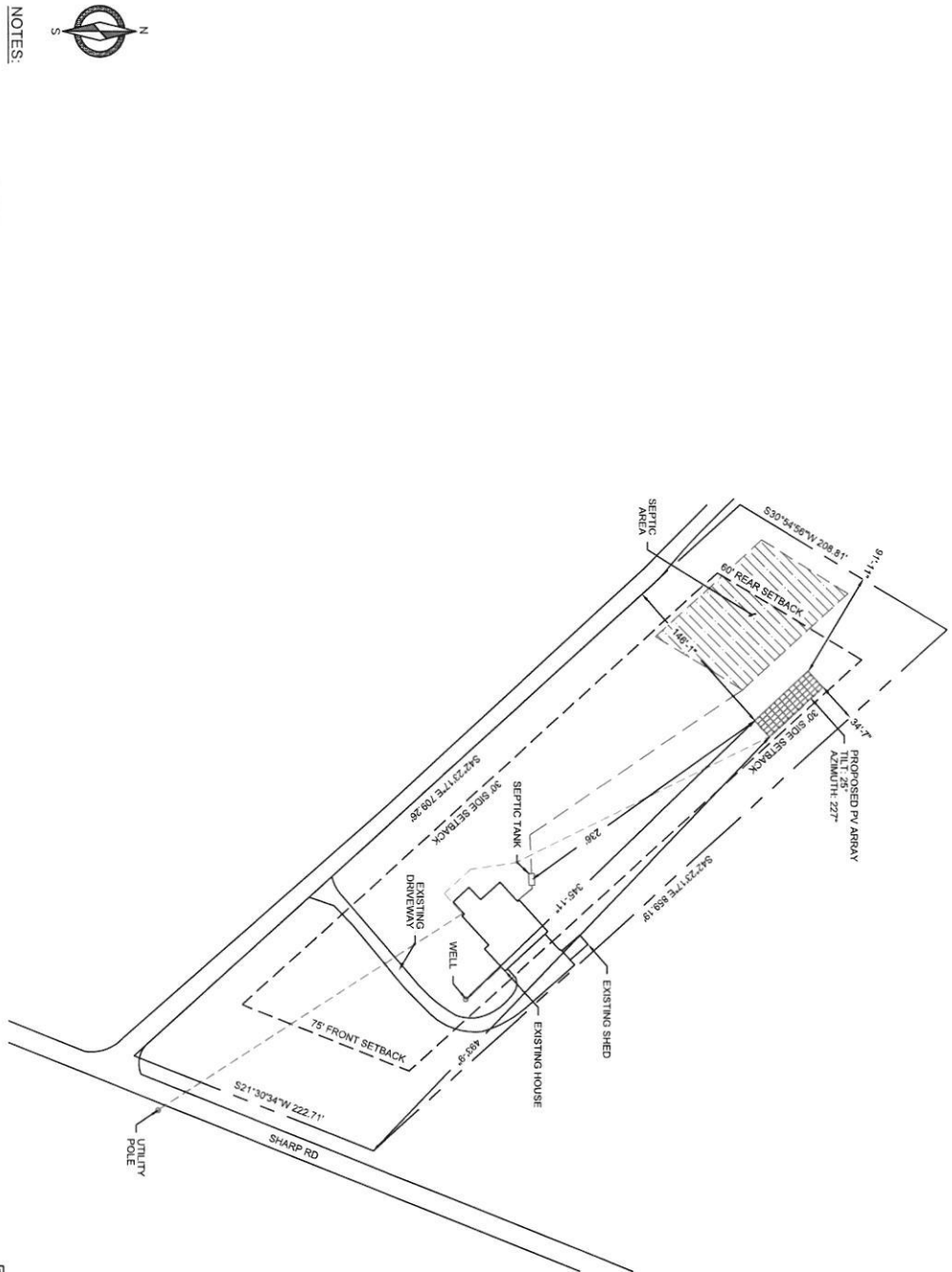
(55) LONGI LR5-54HPB-405M

(2) Tesla 1538000-xx-y (7.6 kW)

22.275 kW 15.200 kW

Yan Huang
3710 Sharp Rd
Glenwood, MD, 21738

None	Site Plan
AT	September 12, 2025
AS NOTED	MD26918 A-2



- NOTES:
1. THIS DRAWING IS TO PROVIDE REFERENCE FOR THE INSTALLATION OF GROUND MOUNT PHOTOVOLTAIC ARRAYS.
 2. THE SYSTEM SHALL INCLUDE (55) LONGI LR5-54HPB-405M MODULES (DIMENSIONS: 67.8" (L) x 44.65" (W) x 1.18" (D) AND WEIGHING 49.6 LBS (PANEL DEAD LOAD = 2.38PSF))
 3. THE SOLAR FOUNDATIONS BACCHING WILL BE INSTALLED PER MANUFACTURER'S INSTALLATION MANUAL.
 4. THE PROPOSED ARRAY SHALL COVER APPROX. 1192.75SQ.FT. OF THE 3.169 AC. PROPERTY.
 5. EQUIPMENT LOCATION PLANS IS APPROXIMATE. EXACT LOCATION TO BE VIEWED WITH INSTALLATION CREW AND HOME OWNER AT THE TIME OF INSTALLATION.

SITE PLAN
Scale: 1" = 100'-0"

LEGEND

	WILDLIFE & FOREST		SOLAR CONDUIT
	WATER BODIES & FLOOD PLAINS		WATER
	WETLANDS		OVERHEAD ELECTRICAL
			UNDERGROUND ELECTRICAL
			SEWER
			GAS



SFUSA™
Ground Mount Structure

Date: October 20, 2025
Subject: Ground Mount Solar Support Structure
Project: Huang, Yan (MD26918)
371 Sharp Road
Glenwood, MD 21738

To whom it may concern,

Solar Foundations USA certifies that the design of the subject ground mount support structure as submitted conforms to the Maryland Building Performance Standards Regulations, including the 2021 International Building Code (IBC) with Amendments per Section 3.101.

Professional Certification. I hereby certify that this document was prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 40027, Expiration Date: 3/15/2027.

Please call if you have any questions or require any additional information.

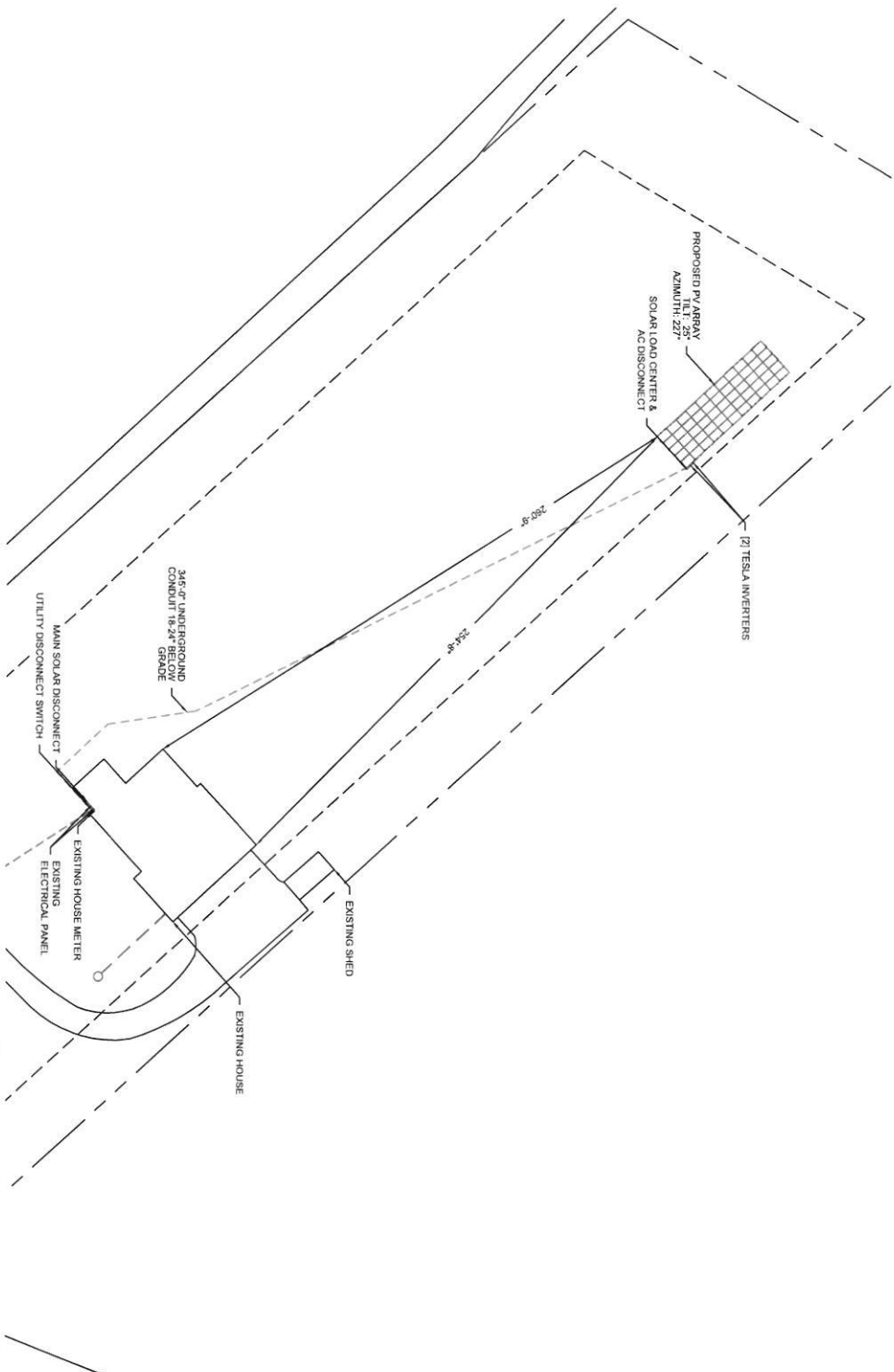
Respectfully,

James C. Douglas
Director of Engineering
MD PE # 40027

James C
Douglas

Digitally signed by
James C Douglas
Date: 2025.10.21
16:19:24 -04'00'





NOTES:

1. THIS DRAWING IS TO PROVIDE REFERENCE FOR THE INSTALLATION OF GROUND MOUNT PHOTOVOLTAIC ARRAYS.
2. THE SYSTEM SHALL INCLUDE (50) LONG IRR-54HPB-405M MODULES (DIMENSIONS: 67.8" (L) X 44.05" (W) X 1.18" (D) AND WEIGHING 49.6 LBS (PANEL DEAD LOAD = 2.39PSF)).
3. THE SOLAR FOUNDATIONS PAVING WILL BE INSTALLED PER MANUFACTURER'S INSTALLATION MANUAL.
4. THE PROPOSED ARRAY SHALL COVER APPROX. 1192.75SQ. FT. OF THE 3.189 AC. PROPERTY.
5. EQUIPMENT LOCATION PLAN IS APPROXIMATE. EXACT LOCATION TO BE VERIFIED WITH INSTALLATION CREW AND HOME OWNER AT THE TIME OF INSTALLATION.

EQUIPMENT LOCATION PLAN

Scale: 1" = 50'-0"

WILDLIFE & FOREST

PRESERVATION

WATER BODIES & FLOOD PLANS

WETLANDS

SOLAR CONDUIT

OVERHEAD ELECTRICAL

UNDERGROUND ELECTRICAL

SEWER

GAS

LEGEND

SolarEnergyWorld Because Tomorrow Matters Solar Energy World LLC 14805 W. 10th Ave Lakewood, CO 80227 (888) 487-3223	
This drawing is the property of Solar Energy World LLC. The information contained herein is for the use of the client only. It is not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Solar Energy World LLC. The client agrees to hold Solar Energy World LLC harmless from and against all claims, damages, and expenses, including reasonable attorneys' fees, arising out of or from the use of the respective Solar Energy equipment.	
International Residential Code (IRC) 2023	
National Electrical Code (NEC) 2021	115 MPH
40 PSF	
(55) LONG IRR-54HPB-405M	
(2) Tesla 1538000-xx-y (7.6 kW)	
22.275 kW	15.200 kW
Yan Huang 3710 Sharp Rd Glenwood, MD, 21738	
None	
None	
Equipment Location Plan	
AT	September 12, 2025
AS NOTED	MD26918
E-1	

Engineering Review is Limited Solely to the Structural Design of the SFWUSA Structure. It Excludes All Civil, Electrical, and Other Non-Structural Project Elements.

James C Douglas
Digitally signed by James C Douglas
Date: 2025.10.21 16:20:43 -0400
Professional Certification: I 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. 40027, Expiration Date: 3/15/27.

PANEL LAYOUT

19.1.3.

QTY OF MODULES/SUB-ARRAY:	55
QTY OF SUB-ARRAYS:	1
PANEL COLUMNS/SUB-ARRAY:	11
QTY OF PANEL ROWS:	5
PANEL ORIENTATION:	LANDSCAPE
PANEL COLUMN SPACING:	3 1/4"
PANEL ROW SPACING:	3 1/4"
PANEL MODEL:	LR6-54HFB
PANEL SIZE:	44.65" x 67.8"
PANEL POWER RATING:	405 WATTS
SUB ARRAY POWER RATING:	22,275 KW
TOTAL POWER RATING:	22,275 KW
QTY RAIL PER PANEL:	2

BASIC WIND SPEED: (RISK CATEGORY 2) BASIC WIND SPEED: (RISK CATEGORY 1)	115 MPH N/A	MAXIMUM PILE AXIAL BEARING: MAXIMUM PILE UPLIFT:	4,830 LBS 2,365 LBS
EXPOSURE CATEGORY:	B	MAXIMUM LATERAL RESISTANCE:	1,600 LBS
GROUND SNOW LOAD:	40 PSF	TOP RAIL MAXIMUM LOADING:	102.1 PLF
FLAT ROOF SNOW LOAD:	N/A	GROUND SCREW DEPTH:	60" MIN
SITE CONFIGURE:	<5 DEG SLOPE		

ALL DESIGN WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE HAWAII COUNTY BUILDING CODE, 2015 EDITION, CHAPTER 10, AND THE 2021 INTERNATIONAL BUILDING CODE WITH AMENDMENTS PER SECTION 3.101.

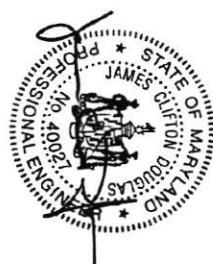
NET DESIGN PRESSURES WERE CALCULATED IN ACCORDANCE WITH ASCE 7-16 SECTION 7.7.2.3.2. "OPEN BUILDINGS WITH MONOSLOPE, PITCHED, OR THOUGHED ROOFS". ALL LOAD CASES WERE EVALUATED IN DETERMINING THE LIMITING DESIGN CONDITIONS. THE LOAD TABLE ABOVE PRESENTS THE RESULTS FOR THE LIMITING LOAD CASE. MAXIMUM PILE REACTION FORCES REPRESENT THE HIGHEST LOAD CONDITION ALLOWED TO EXIST IN THE STRUCTURE. ALL PILES IN THE STRUCTURE ARE DESIGNED TO MEET THE MAXIMUM LOAD CONDITIONS.



NOTE: PANEL PLACEMENT IS FOR ILLUSTRATIVE PURPOSES ONLY

S-1

PROFESSIONAL CERTIFICATION. I 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. 40027, EXPIRATION DATE: 3/15/27.



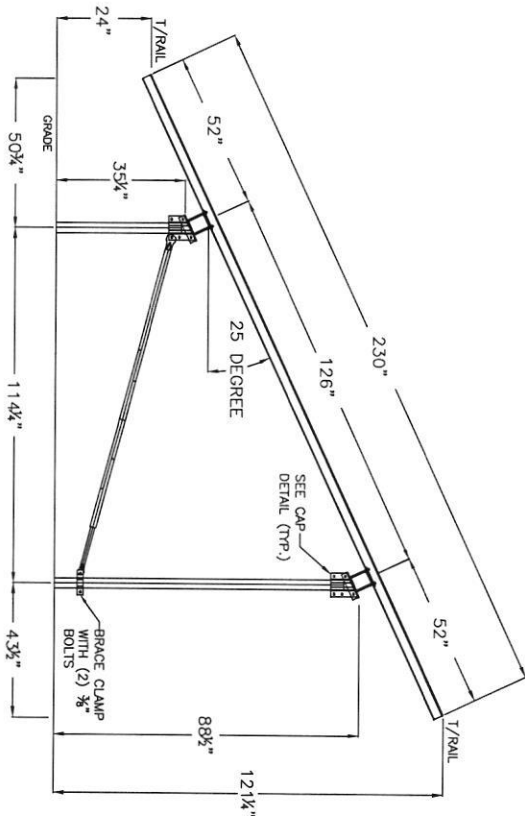
Digitally signed by
James C Douglas
Date: 2025.10.21
16:21:07 -04'00'

SOLAR ENERGY WORLD
-PROJECT-
HUANG, YAN(MD26918)
3710 SHARP RD
GLENWOOD, MD 21738



Solar Foundations*
USA

1142 River Road, New Castle, DE 19720
Ph: (855) 738-7200 Fax: (866) 644-5665

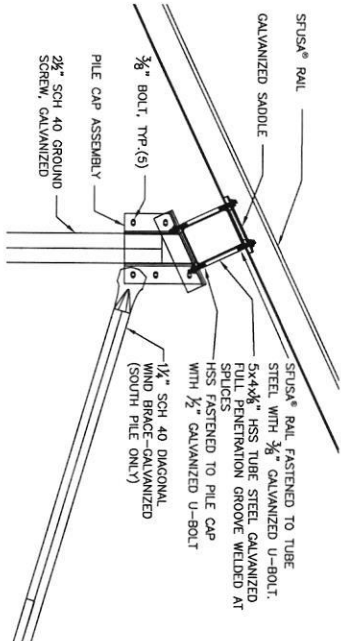


EAST ELEVATION

N.T.S.

NOTE:

1. ARRAY HEIGHT DIMENSIONS ASSUME LEVEL GRADE



CAP DETAIL

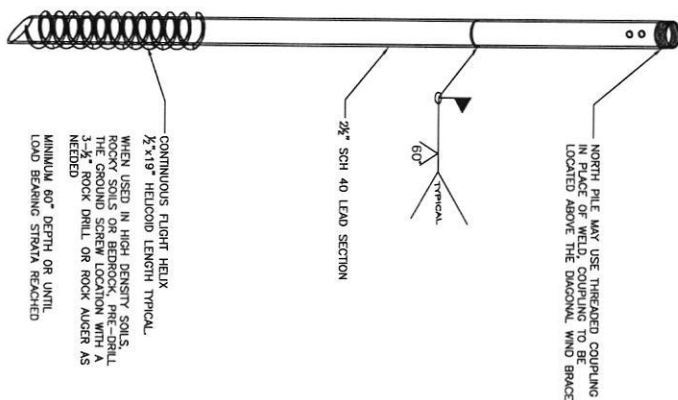
N.T.S.

SPECIFICATION REQUIREMENT NOTES:

- THE FOLLOWING MATERIAL SPECIFICATION REQUIREMENTS PERTAIN TO THE FABRICATION OF THE SOLAR FOUNDATIONS USA® GROUND MOUNT SOLAR SUPPORT STRUCTURE AS INDICATED ON THESE DRAWINGS.
- SFUSA® ALUMINUM RAILS SHALL CONFORM TO ASTM B221, (60 KSI).
- STEEL PIPE FOR PILES SHALL CONFORM TO ASTM A500 GRADE B.
- STEEL PILE EXTENSIONS SHALL BE ASTM A53 GRADE B.
- STEEL PIPE FOR DIAGONAL BRACING SHALL BE ASTM A53 GRADE B.
- FABRICATED STEEL PLATE FOR PILE CAP ASSEMBLIES, BRACING CLAMPS, ETC. SHALL BE ASTM A36 OR A1011.
- BETTER BOLTS SHALL CONFORM TO SAE J429 GRADE 5 OR 8.
- STEEL U-BOLTS SHALL CONFORM TO ASTM 1018.
- U.S. FLAT STEEL WASHERS SHALL CONFORM TO ASTM F944 AND NUTS FOR STEEL CONNECTIONS SHALL CONFORM TO ASTM A563.
- ALL FIELD WELDING SHALL CONFORM TO AWS D1.1/01.1M.
- STRUCTURAL WELDING CODE REQUIREMENTS.
- ALL STEEL SHALL BE HOT-DIP GALVANIZED PER ASTM A123 OR A153 AFTER ALL FABRICATION HAS BEEN COMPLETED.

INSTALLATION REQUIREMENT NOTES:

- THE MINIMUM AVERAGE INSTALLATION TORQUE REQUIRED TO OBTAIN THE REQUIRED INDICATED CAPACITIES AND THE MINIMUM INSTALLATION DEPTH SHOWN ON THE PLANS SHALL BE SATISFIED PRIOR TO TERMINATION OF THE GROUND SCREW. THE INSTALLATION DEPTH SHALL BE AN AVERAGE OF THE INSTALLATION TORQUES INDICATED DURING THE LAST ONE FOOT OF INSTALLATION.
- THE TORSIONAL STRENGTH RATING OF THE GROUND SCREW SHALL BE AVERAGE OF THE TORSIONAL STRENGTH RATING OF THE TORSIONAL STRENGTH LIMIT OF THE GROUND SCREW HAS BEEN REACHED, BUT THE SCREW HAS NOT REACHED THE TARGET DEPTH, PERFORM THE FOLLOWING:
 - REVIEW DEVELOPED TORQUE AND GROUND SCREW DEPTH WITH ENGINEER OR RECORD TO DETERMINE IF ACCEPTABLE FOR THIS INSTALLATION BASED UPON MINIMUM PROVED REQUIREMENT.
 - FOR INSTALLATION INTO HIGHLY COMPACTED SOIL, CREW SHALL USE A 36\"/>
- IF THE TARGET DEPTH IS ACHIEVED, BUT THE TORSIONAL REQUIREMENT HAS NOT BEEN MET THE INSTALLER PERFORM ONE OF THE FOLLOWING:
 - INSTALL THE GROUND SCREW DEEPER TO OBTAIN THE REQUIRED CAPACITY.
 - REMOVE THE GROUND SCREW AND INSTALL AN APPROVED SINGLE FLIGHT PILE WITH A LARGER DIAMETER HELICAL PLATE OR ONE WITH MULTIPLE HELICAL PLATES.
 - REDUCE THE LOAD ON THE INDIVIDUAL GROUND SCREWS BY SPACING CONTACT ENGINEER OF RECORD FOR REDUCED DETERMINATION OF MAXIMUM PILE SPACING BASED UPON DEVELOPED TORQUE.

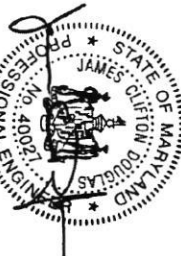


GROUND SCREW DETAIL

N.T.S.

DATE	REVISION	DRAWN BY	REVIEW BY
10/20/2025	ORIGINAL	JH	JD

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MARYLAND, LICENSE NO. 40027, EXPIRATION DATE: 3/15/27.

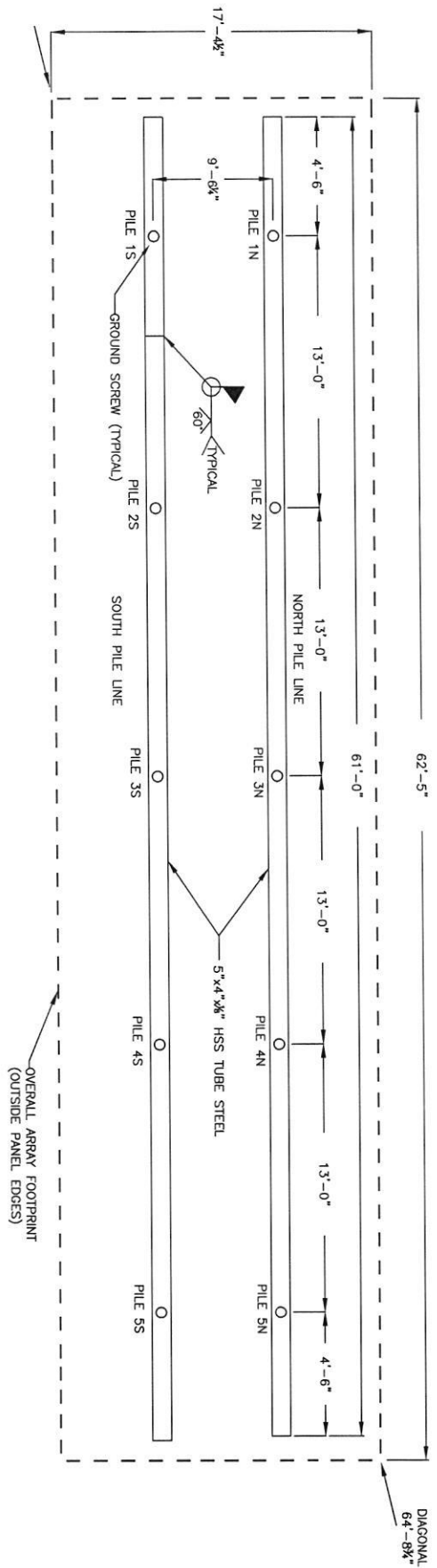


James C Douglas
Digitally signed by James C Douglas
Date: 2025.10.21 16:21:31 -0400

SOLAR ENERGY WORLD

-PROJECT-
HUANG, YAN(MD26918)
3710 SHARP RD
GLENWOOD, MD 21738

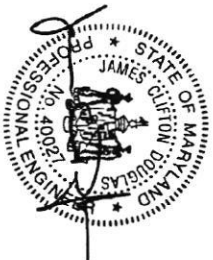
Solar Foundations® USA
1142 River Road, New Castle, DE 19720
Ph: (855) 738-7200 Fax: (866) 644-5665



PILE PLAN LAYOUT

N.T.S.

PROFESSIONAL CERTIFICATION. I 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. 40027. EXPIRATION DATE: 9/15/27.



James C Douglas
Digitally signed by James C Douglas
Date: 2025.10.21 16:21:54 -0400

DATE	REVISION	DRAWN BY	REVIEW BY:
10/20/2025	ORIGINAL	JB	JD

S-3

SOLAR ENERGY WORLD

-PROJECT-
HUANG, YAN(MD26918)
3710 SHARP RD
GLENWOOD, MD 21738



Solar Foundations®
USA

1142 River Road, New Castle, DE 19720
Ph: (855) 738-7200 Fax: (866) 644-5665



3-LINE DIAGRAM

GENERAL ELECTRIC NOTES: NEC2021

- Drawn by
AT
Date
October 2, 2022

	
SolarEnergyWorld	
Because Tomorrow Matters	
Solar Energy World, LLC 1 Laurel, MD 20707 (888) 497-3233	
Warning: The drawing is the property of Solar Energy World and is not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Solar Energy World, except in the form of a single copy for personal use of the respective Solar Energy equipment.	
Drawn Code: _____	
International Residential Code (IRC) 2023	
National Electrical Code (NEC) 2021	
115 MPH	40 PSF
565) LONGI LR5-54HPB-405M	
(2) Tesla 1538000-xx-y (7.6 kW)	
22.2/7.5 kW	15,200 kW
1 an Huang 3710 Sharp Rd Glenwood, MD, 21738	
None	
Forward	
Electrical 3-Line Diagram	
AT	October 2, 2025
AS NOTED	IM26918
E-2	