

Menu Save Reset Cancel Help

Approved
12/2/25

Record Detail * (This section is required.)

Case #
EH-PLANS-25-0

Type
EnvHealth/Environmental Health/Plan Check/Application

Status
In Review

Opened Date
12/03/2025

Single Entry Edit-View Record Form

Application Name
B25005336

Description
SFD/ INSTALL (1) Tesla Powerwall 3 Battery in attached garage

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

Online BP.
g & 12/3/25

Address * (This section is required.)

New	Search	Delete	Set Primary											
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Street # (start)	Direction	Street Name	Street Type	City	State	Zip Code	Address Status	Street Suffix (Direction)	Unit Type
<input type="checkbox"/>	<input checked="" type="checkbox"/>				11625		Log Jump	TRAIL	Elli...	MD	21042			

Parcel (This section is not required.)

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

Owner (This section is not required.)

Search	Delete	Set Primary												
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Primary	Name	Mail Address Line1	Mail Address Line2	Mail Address Line3	Mail City	Mail State	Mail Zip Code	Phone	Country/Region	
<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>	Vijay Narayan	11625 Log Jump Trl.			Ellicott City	MD	21042		US	

Applicant * (This section is required.)

Search As Owner As Lic. Prof As Contact

Single Entry Applicant Form

Type *
Applicant

Primary
Yes

First Name *
Joseph

Middle Name

Last Name *
Rice

Home Phone ((XXX)XXX-XXXX)

Organization Name *

Fusion Solar Services LLC

Mobile Phone ((XXX)XXX-XXXX)

(443) 955-0779

E-mail

permits@FUSIONSS.NET

Business Phone ((XXX)XXX-XXXX)

Preferred Channel

--Select--

Applicant Address

New Look Up Deactivate Remove

<input type="checkbox"/>	Contact Address ID	Address Type	Address Line 1	City	State	Zip	Primary	Recipient	Status
0 record(s) found.									

Custom Fields

DATE TRACKING

Received Date

12/3/2025

Due Date

12/17/2025

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

12/17/2025

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

(Text)

Days of Operation

(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

(Text)

Facility Email

(Text)

PROPERTY INFORMATION

Water Source

--Select--

Design Wastewater Flow

(Number)

Sewage Disposal

--Select--

Permit Type

--Select--

DEVELOPMENT PLANS

Property Type

Residential

Signature Required

Yes No

Number of paper copies

0

(Number)

Number of buildable lots created

Plan Version

Initial

Engineer

0

(Text)

Number of mylar copies

0

(Number)

Number of non-buildable lots created

0

(Number)

Total Number of Lots

0

(Number)

(Number)

(Number)

Associated Plans

[Empty box for Associated Plans]

WELL AND SEPTIC INTERNAL

State Review Required

Yes No

Coordinate State Review

Yes No

Proposed Septic System Type

--Select--

FOOD ESTABLISHMENT FACILITY

Priority Assessment

--Select--

Licensed Type

--Select--

License Category

--Select--

FOOD ESTABLISHMENT INFORMATION

Hours of Operation

(Text)

Operating Seasonally Only

If Operating Seasonally. What is the start month?

(Text)

Are pets allowed in a outdoor seating area?

Yes No

Full Bar?

Yes No

RESTAURANT AND FOOD SERVICE

Food Service Facility Secondary Category

--Select--

Total Seating Capacity

(Number)

Number of Restrooms

(Number)

Interior Restaurant Seating Capacity

(Number)

Bar Seating Capacity

(Text)

Outdoor Seating Capacity

(Text)

Does the restaurant have outdoor seating

Yes No

EQUIPMENT

Evaluated non NSF, ANSI, CF or other standards

Yes No

Description of Refrigeration Units

Number of Walk-In Refrigerator Units

(Number)

Description of Walk-In Freezer Units

(Text)

Is there a bulk ice machine available

Yes No

Space Limitation

Number of Hand Sinks Available

(Number)

Hood System

(Text)

Ventless Equipment

(Text)

PLUMBING

Size and installation of the water heater?

(Text)

Is there a grease interceptor or grease trap?

--Select--

REFUSE AND RECYCLABLES

Dumpsters Located on a impervious surface?

--Select--

Will there be a grease receptacle?

--Select--

WAREWASHING DISHWASHING

Dishwashing Method

--Select--

HACCP

Plan Review Response Letter Received

Yes No

Date HACCP Approved by the State

[Date Picker]

Date HACCP Plan Submitted

HACCP Plan Approved

✓ 5/12/89 ASAP
5-17-82 AFTER LPA

File TAX# 05 405270

PERMIT

P 42904

SEWAGE DISPOSAL SYSTEM

A 37021

MARYLAND STATE DEPARTMENT OF HEALTH

DISTRICT 5th

HOWARD COUNTY

DATE 10/31/88

BUREAU OF ENVIRONMENTAL HEALTH
461-9933

INDEXED

DATE SYSTEM APPROVED 5/17/89

INSPECTOR C.B.D.

Alan Whitworth

IS PERMITTED TO INSTALL ALTER

ADDRESS 12680 Clarksville Pike, Clarksville, Maryland PHONE 531-5023

SUBDIVISION The Chase ROAD 11625 Log Jump Trail LOT 26

PROPERTY OWNER Dr. Vijay & Geetanjali Narayan

ADDRESS _____

IF GARBAGE GRINDER IS USED INCREASE SEPTIC TANK CAPACITY BY 50% AND ABSORPTION AREA BY 22%.

GARBAGE GRINDER? YES NO

SEPTIC TANK CAPACITY 2000 GALLONS NUMBER OF BEDROOMS 4

TRENCHES - 220 sq. ft. per bedroom with garbage disposal. Trench to be 3 feet wide. Inlet
* 4.5' 3.0 feet below original grade. Bottom maximum depth 7.5 feet below original
grade. Effective area begins at 4.5 feet below original grade. 1.5 feet of
stone below distribution pipe. *(5/17/89 DUE TO A POOL ALREADY INSTALLED)*

LOCATION - Place the distribution box 145 feet down the right (475') lot line and 105 feet
off the right lot line as seen when facing the lot from Log Jump Trail. Run
trenches on contour toward the right lot line.

NOTE - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and
cap to grade or above on septic tank. akw + C.B.D.

PLANS APPROVED BY Sid Abel DATE 1/06/87

COVER NO WORK UNTIL INSPECTED AND APPROVED

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK DISTRIBUTION BOX TRENCHES) TO BE 100 FEET FROM WELL (UNLESS OTHERWISE SPECIFICALLY AUTHORIZED)

NOTE: IF DEEP TRENCHES ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCHES)

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH.

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 40 PVC OR ABS

PERMIT VOID AFTER TWO YEARS

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

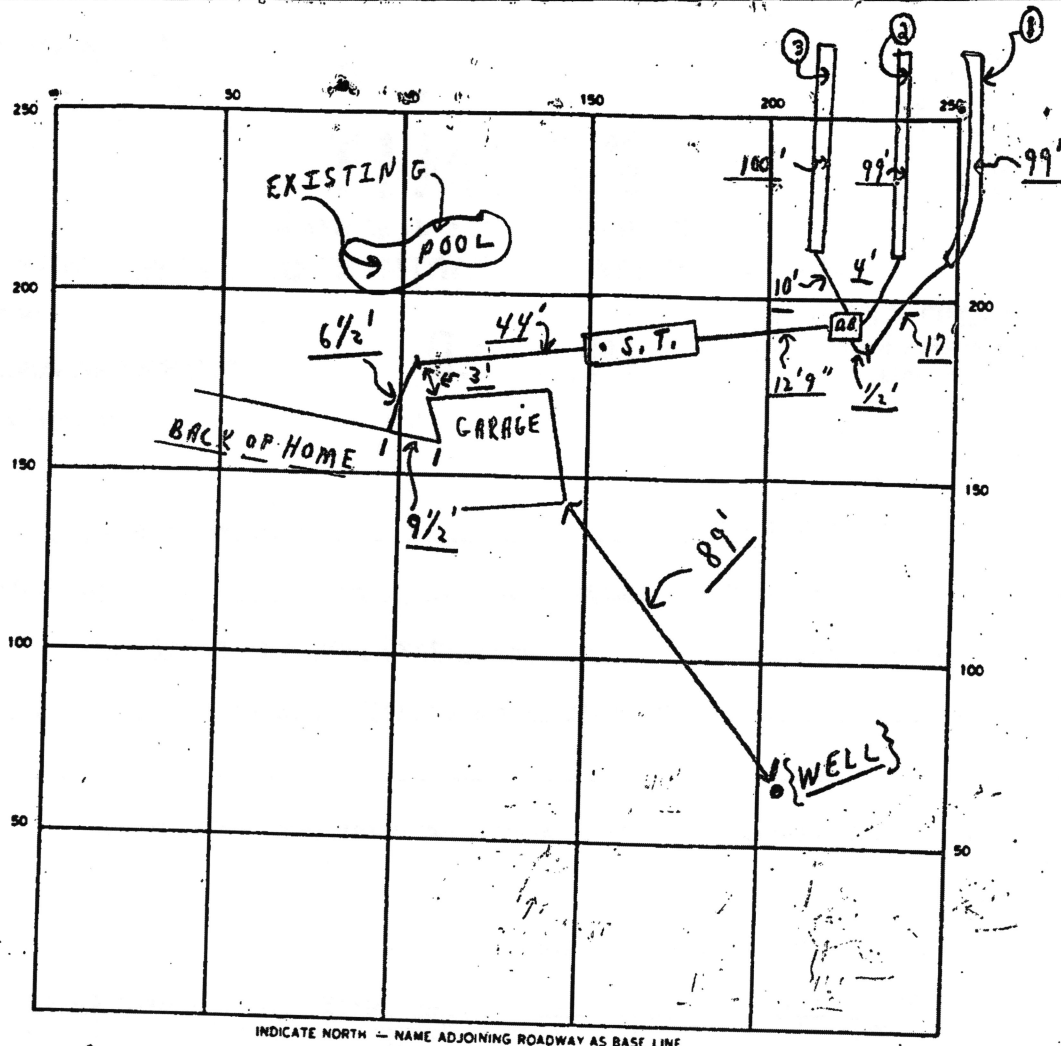
BLDG. PERMIT SIGNED
AND RETURNED 4/3/95

Serial # 58717
1 Story addition

A 37021

***INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**

*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEMS.



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

LOG JUMP TRAIL

SEPTIC TANK LEVEL OK CLEANOUTS OK

DISTRIBUTION BOX LEVEL OK

DRAIN FIELD/TILE FIELD. DEPTH AVG. 6.5⁺ FT. TRENCH WIDTH 3⁰ FT. INLET DEPTH 0.5⁺ FT.

EFFECTIVE GRAVEL DEPTH 1.5⁺ FT. TOTAL LENGTH 298⁰ FT.

NUMBER OF TRENCHES 3 ONE ~~SIDE~~/BOTTOM AREA 894⁺ SQ. FT.

DRYWELL INSIDE DIAMETER _____ FT. EFFECTIVE DEPTH BELOW INLET _____ FT.

ABSORBENT AREA 894⁺ SQ. FT.

REMARKS 5/17/89 A POOL IS IN - AT REAR OF HOME, SEPTIC SYSTEM MOVED TO RIGHT OF LOT AS SHOWN; OK TO COVER - FINAL. C.R.D.

NOTE (LOST TAPE ON S.T. SIDE - NEAR HOUSE - MUD &/OR WATER IN AREA)

DATE SYSTEM APPROVED 5/17/89 INSPECTOR Charles Bryan Stecker

BATTERY-ONLY SYSTEM

NARAYEN RESIDENCE

11625 LOG JUMP TRAIL, ELLICOTT CITY, MD,
21042

PROJECT INFORMATION

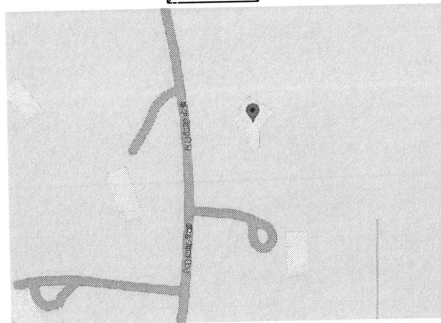
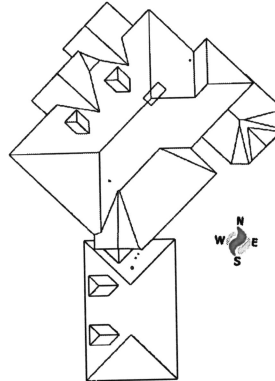
OWNER: VIJAY NARAYEN
ADDRESS: 11625 LOG JUMP TRAIL, ELLICOTT CITY, MD, 21042

AHJ: HOWARD COUNTY (MD)
ADDRESS: 3430 COURT HOUSE DRIVE, ELLICOTT CITY, MARYLAND, 21043

ZONING: RESIDENTIAL
OCCUPANCY: SINGLE-FAMILY DWELLING (R-3)
BUILDING CODE: IBC 2021
ELECTRICAL CODE: NEC 2023
ASCE VERSION: ASCE 7-16
SNOW LOAD: 40 PSF
WIND SPEED: 115 MPH
WIND EXPOSURE: B

MODULE (EXISTING): (42) SW 250 Mono
INVERTER (EXISTING): (42) M215-60-2LL-S22

BATTERY: (1) TESLA POWERWALL 3



FOR PERMITTING USE ONLY

WORKSITE ADDRESS:

VIJAY NARAYEN
11625 LOG JUMP TRAIL,
ELLICOTT CITY, MD, 21042

CONTRACTOR INFO:



LUMINA
3600 COMMERCE DR
SUITE 601
BALTIMORE, MD 21227
(443) 955-0779

LICENSE NUMBER:

MHIC-30991

REV	DATE
IFC	12-01

COVER

Z001

PROJECT SCOPE

THIS PROJECT INVOLVES THE INSTALLATION OF (1) TESLA POWERWALL 3 ENERGY STORAGE DEVICES. THEY WILL BE ELECTRICALLY CONNECTED TO THE EXISTING SOLAR PV SYSTEM AND INTERCONNECTED TO THE LOCAL UTILITY USING MEANS AND METHODS CONSISTENT WITH THE RULES ENFORCED BY THE LOCAL UTILITY AND PERMITTING JURISDICTION.

INDEX OF PAGES

Z001	COVER PAGE
A00(#)	ATTACHMENT & SITE PLANS
S00(#)	ASSEMBLY & LOAD CALCS
E001	3-LINE DIAGRAM
E002	WIRE CALCS
E003	CIRCUIT & CONDUIT MAP
E004	EQUIPMENT RATINGS & SIGNAGE
X00(#)	BOM, NOTES, MISCELLANEOUS

GENERAL NOTES

1) THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 690, ALL MANUFACTURERS'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

2) ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE AND AS REQUIRED BY THE NEC AND AHJ.

3) PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION TO REDUCE SHOCK HAZARD FOR EMERGENCY RESPONDERS

4) THIS SYSTEM IS A UTILITY INTERACTIVE SYSTEM, AND THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE.

FOR ENGINEERING USE ONLY

FOR PERMITTING USE

EQUIPMENT SCHEDULE

TAG	CONDUIT SIZE (in)	CONDUIT TYPE	LENGTH (ft)	DESCRIPTION
T1	N/A	N/A	5'	200 AMP TESLA GATEWAY ATS WITH 200 AMP MAIN BREAKER (400 AMP SERVICE)

CONDUCTOR AND CONDUIT SCHEDULE

TAG	CONDUIT SIZE (AWG)	WIRE TYPE	DESCRIPTION	BREAKER SIZE
SEU	#4/0	N/A	(2) PHASE CONDUCTORS & (1) NEUTRAL	15 AMP (EB1)
A	#12	#6	(2) PHASE CONDUCTORS & (1) BARE COPPER IN FREE AIR	20 AMP (CB1)
B	#10	#8	(4) PHASE CONDUCTORS & (1) GROUND	20 AMP (CB2)
C	#8	#8	(2) PHASE CONDUCTORS & (1) NEUTRAL & (1) GROUND	20 AMP (CB3)
D	#8	#8	(2) PHASE CONDUCTORS & (1) NEUTRAL & (1) GROUND	
E	#6	#8	(2) PHASE CONDUCTORS & (1) NEUTRAL & (1) GROUND	

MOUNTING LOCATION

SURFACE MOUNTED ON WALL OPPOSITE UTILITY METER

CONDUCTOR AND CONDUIT SCHEDULE

TAG	EQUIPMENT DETAILS
T1	200 AMP TESLA GATEWAY ATS WITH 200 AMP MAIN BREAKER (400 AMP SERVICE)

CONDUCTOR AND CONDUIT SCHEDULE

TAG	CONDUIT SIZE (in)	CONDUIT TYPE	LENGTH (ft)	DESCRIPTION
1	0.75	EMT	5	ENPHASE COMBINER (MODEL MK-IC-AMT-240-5) WITH CIRCUITS AS LISTED IN SCHEDULE
2	0.75	LFMC	10	SERVICE RATED 60A NON-FUSED DISCO (MODEL #DU222RB)
3	0.75	EMT	5	35A SOLAR PV BACKFED BREAKER
4	0.75	EMT	10	SERVICE RATED 60A NON-FUSED DISCO (MODEL #DU222RB)

MOUNTING LOCATION

MOUNTED ADJACENT TO UTILITY METER
MOUNTED ADJACENT TO UTILITY METER
INSTALLED IN TESLA GATEWAY ATS
MOUNTED ADJACENT TO UTILITY METER

CIRCUIT SCHEDULE

CIRCUIT	INVERTER COUNT	AMPERAGE CALCULATION	BREAKER SIZE
#1	14	14 x 0.9 x 125% = 15.75 A	20 AMP (CB1)
#2	14	14 x 0.9 x 125% = 15.75 A	20 AMP (CB2)
#3	14	14 x 0.9 x 125% = 15.75 A	20 AMP (CB3)

Enphase M215 RATINGS

Imax (ac):	0.9 A
Vmax (dc):	45 V
Pmax (ac):	215 W
Ppeak (ac):	225 W

SW 250 Mono RATINGS

Isc (dc):	8.28 A
Voc (dc):	37.8 V
Pmax:	250 W
OCPPD:	16 A

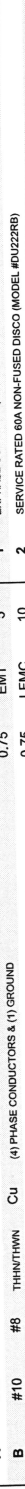
NOTES

- THE AC UTILITY SOURCE IS REMOVED FROM THE INVERTER OUTPUT FUNCTIONS VIA ANY MEANS. THIS EQUIPMENT PERFORMS THE RAPID SHUTDOWN FUNCTION PER 690.12
- ARRAY BONDED WITH #6 BARE CU
- TWO UNGROUNDED CONDUCTORS PER CIRCUIT OF INVERTERS (TYP)
- ALL CONDUIT SIZING WILL BE IN ACCORDANCE TO THE NEC, CHAPTER 9
- PVC OR LFMC MAY BE USED INSTEAD OF EMT CONDUIT
- THE AC DISCONNECT IS LOCKABLE, TAGGABLE, 24/7 UTILITY ACCESSIBLE, LOAD BREAK CAPABLE, AND HAS VISIBLE BREAK.
- SMART INVERTER COMPLIANT

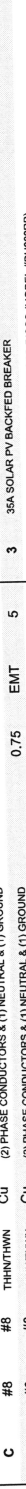
PROFESSIONAL CERTIFICATION

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. 56597, Expiration Date: 21-Oct-2026

EXISTING ELECTRICAL ONLY



GROUNDING SYSTEM



WORKSITE ADDRESS:

11625 LOG JUMP TRAIL, ELLICOTT CITY, MD, 21042

CONTRACTOR INFO:

LUMINA
3600 COMMERCE DR
SUITE 601
BALTIMORE, MD 21227
(443) 955-0779

LICENSE NUMBER:

MHIC-30991

REV DATE

IFC 12-01

3-LINE DIAGRAM

E001

CONTRACTOR INFO:

VJAY NARAYEN

LICENSE NUMBER:

MHIC-30991

REV DATE

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3-LINE DIAGRAM

E001

WORKSITE ADDRESS:

11625 LOG JUMP TRAIL, E

CALCULATION FOR PV BREAKER				
SYSTEM CURRENT (Amps)	0.9	X	28	= 25.20
DESIGN CURRENT (Amps)	25.20	X	125%	= 31.50
BUSBAR RATING (120% RULE)	200	X	120%	= 240
EXISTING MAIN BREAKER				= 200
MAX SOLAR BREAKER (Amps)	240	-	200	= 40

ARRAY TO COMBINER	
Conductor Type	THHN/THWN
Conductor Material	COPPER
Largest Circuit Amperage	12.6
Qty. of Current-Carrying Conductors	4
Load Duty Multiplier	1.25
Ambient Temp Derate Factor	0.94
Qty. of Conductors Derate Factor	0.80
Minimum Required Terminal Ampacity	15.75
Minimum Required Conductor Ampacity	17
Selected Conductor Size (AWG)	10
Selected Conductor Ampacity	30
Ohms/MilFt	1.240
Length of Run (ft)	5
Voltage Drop	0.16
Percent Voltage Drop	0.07%

INTERCONNECTION (BREAKER TAP)	
Conductor Type	THHN/THWN
Conductor Material	COPPER
Largest Circuit Amperage	25.20
Qty. of Current-Carrying Conductors	3
Load Duty Multiplier	1.25
Ambient Temp Derate Factor	1.00
Qty. of Conductors Derate Factor	1.00
Minimum Required Terminal Ampacity	31.50
Minimum Required Conductor Ampacity	32
Selected Conductor Size (AWG)	8
Selected Conductor Ampacity	50
Ohms/MilFt	0.778
Length of Run (ft)	10
Voltage Drop	0.392
Percent Voltage Drop	0.16%

ELECTRICAL ONLY



Firm License Number: 09-55266
 VSE Project Number: U2913.0442.251
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. 56597, Expiration Date: 21-Oct-2026

NOTES
 1) ALL CONDUCTORS SHALL BE COPPER, RATED FOR 75°C AND WET ENVIRONMENT, UNLESS OTHERWISE NOTED.

3) MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER MANUFACTURER'S INSTRUCTION.

2) ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.

DESIGN VARIABLES	
Ambient Indoor Temp (°C)	26-30
Ambient Outdoor Temp (°F)	94
Outdoor Temp Adder (°F)	N/A
Adjusted Outdoor Temp (°F)	94
Terminal Temp Rating (°C)	75

FOR PERMITTING USE ONLY

WORKSITE ADDRESS:

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 11625 LOG JUMP TRAIL,
 ELLICOTT CITY, MD, 21042

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LICENSE NUMBER:

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REV	DATE
IFC	12-01

WIRE CALCS

E002

Solar Module Ratings

SW 250 Mono

Length: 65.94 in

Width: 37.44 in

Thickness: 1.22 in

Weight: 21.2 lbs

Imp: 8.05 A

Vmp: 31.1 V

Voc: 37.8 V

Isc: 8.28 A

OCPD: 16 A

Pmax: 250 W

Vmax: 600 V

Temp. Coefficient: -0.33 %Voc/°C

Square Footage: 17.14 sq.ft.

Inverter Ratings

M215-60-2LL-S22

Max # Per String: 17

I_{max} (ac): 0.9 A

V_{max} (dc): 45 V

P_{max}: 215 W

Nom. AC Voltage: 240 V

OCPD: 20 A

Weight: 2.38 lbs

I_{max} (Input): 15 A

P_{max} (dc) Input: N/A V

P_{peak} (AC): 225 W

Battery Ratings

1707000-xx-y

Max AC Input: 7680 W

Nom. AC Voltage: 120/240 V

Total Energy: 13.5 kWh

Usable Energy: 13.5 kWh

OCPD: 60 A

Largest Load: 60 A

Largest Inrush: 185 A

Weight: 287 lbs

Dimensions: 43.25" x 24" x 7.6"

WARNING: PHOTOVOLTAIC POWER SOURCE

PHOTOVOLTAIC DC DISCONNECT

PHOTOVOLTAIC AC DISCONNECT

PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

INTERACTIVE PHOTOVOLTAIC SYSTEM CONNECTED

WARNING DUAL POWER SOURCE. SECOND SOURCE IS PHOTOVOLTAIC SYSTEM.

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

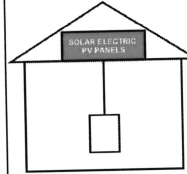
WARNING

ELECTRICAL SHOCK HAZARD

DO NOT TOUCH TERMINALS! TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION!

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

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



SOLAR PV SYSTEM DISCONNECT

RATED AC OUTPUT CURRENT: 25.20 A
NOM. OPERATING AC VOLTAGE: 240 V

WARNING

ELECTRICAL SHOCK HAZARD

IF GROUND FAULT IS INDICATED, NORMALLY GROUNDED CONDUCTORS MAY BE UNGROUNDED AND ENERGIZED.

FOR PERMITTING USE ONLY

WORKSITE ADDRESS:

VIJAY NARAYEN
11625 LOG JUMP TRAIL,
ELLCOTT CITY, MD, 21042

CONTRACTOR INFO:



LUMINA
3600 COMMERCE DR
SUITE 601
BALTIMORE, MD 21227
(443) 955-0779

LICENSE NUMBER:

MHIC-30991

REV DATE

IFC 12-01

EQUIP. RATINGS & SIGNAGE

E004

ELECTRICAL ONLY



09/25/2025

Firm License Number: 09-55266
VSE Project Number: U2913.0442.251

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. 56597, Expiration Date: 21-Oct-2026

NOTES

- 1) Label to be installed at exposed raceways, cabletrays, and other wiring methods; spaced at maximum 10ft sections or where separated by enclosures, walls, partitions, ceilings, or floors.
- 2) Label to be installed at each DC disconnecting means.
- 3) Label to be installed at each AC disconnecting means.
- 4) Label to be installed at Rapid Shutdown Switch (RSD).
- 5) Label to be installed on, or no more than 3ft from, the RSD.

- 6) Label to be installed at utility meter.
- 7) Label to be installed on exterior of main electrical panel.
- 8) Label to be applied to the distribution equipment.
- 9) Label to be applied at each disconnect means for the PV equipment.
- 10) Label to be installed on, or no more than 3ft from, the service disco.
- 11) Label to be installed at an accessible location at the disco means.

- 12) Label to be applied at each disconnect means for the PV equipment.
- 13) All plaques and labels shall have a red background (or as shown here)
- 14) All lettering shall be white & have a minimum height of 3/8" (or as shown here)
- 15) Font shall be arial (or similar) and all lettering shall be capitalized.
- 16) All plaques and labels shall be of a material suitable for the environment installed

- Energy Storage System**
- Tesla Powerwall 3 1
- Tesla Gateway 3 1
- Tesla Metering Kit 1
- Cell Modem 1
- 2-pole, 60A, BR Breaker 1
- 200 Amp, Eaton Br, CSR Main Breaker Kit 1
- BATTERY INSIDE - HEAT SENSORS REQUIRED 1

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MHIC-30991

REV	DATE
IFC	12-01

SERVICE BOM

X001

INFORMATION PERTAINING TO ENERGY STORAGE SYSTEM

MODE OF OPERATION: SELF-CONSUMPTION. SYSTEM WILL MINIMIZE USE OF ELECTRICITY FROM THE GRID BY SHARING POWER TO THE HOME FROM THE GRID STORAGE

SCOPE OF BACKUP: PROVIDES EXISTING LOADS TO BE PROVIDED BACKUP POWER IN THE EVENT OF GRID OUTAGE. LENGTH OF BACKUP TIME WILL DEPEND ON TYPE AND QUANTITY OF LOADS BEING POWERED

NON-BACKED-UP LOADS: ONLY ONE OF THE TWO 200A MAIN PANELS WILL BE BACKED UP

BATTERY LOCATION INSIDE GARAGE

- Battery to be installed on the return wall of the garage with no risk of vehicular damage, and thus no protection is required (see image below)
- Garage completely finished with standard 5/8-inch Type X



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**PROJECT
NOTES**

X002