



Building Permit Application

Howard County Maryland
Department of Inspections, Licenses and Permits
3430 Court House Drive
Permits: 410-313-2455
www.howardcountymd.gov

Date Received: REMSLD

Permit No.: B2000717

Building Address: 1730 Henryton Road Unit 2
City: Marysville State: MD Zip Code: 21104
Suite/Apt. # Unit 2 SDP/WP/BA #: SDP-20-223
Subdivision: 3rd Election District
Lot: 6000 19 Tax Map: 10 Parcel: 18
Existing Use: Zoned RE-DEO Existing Field
Proposed Use: Solar Panel Farm
Estimated Construction Cost: \$ 1,670,000
Description of Work: Construct Ground Mount Solar System of 2.0 MW AC and 6642 Solar Panels
Unoccupied Facility
Occupant/Tenant Name: Nautilus Solar
Was tenant space previously occupied? ☐ Yes ☒ No
Contact Name: Sean Kearney
Address: 396 Springfield Avenue 2nd
City: Summit State: NJ Zip Code: 07901
Phone: 908-795-3046 Fax: -
Email: sean@nautilusolar.com

Property Owner's Name: Austin K. Herman
Address: 1730 Henryton Road
City: Marysville State: MD Zip Code: 21104
Phone: 410-442-1831 Fax: -
Email: -
Applicant's Name & Mailing Address, (If other than stated herein)
Applicant's Name: Frank J. Bucceri
Address: 6701 Democracy Blvd Suite 300
City: Bethesda State: MD Zip Code: 20817
Phone: 301-334-7471 Fax: -
Email: Frank.bucceri@comcast.net
Contractor Company: ME Haynes Corp
Contact Person: Frank J. Bucceri
Address: 6701 Democracy Blvd Suite 300
City: Bethesda State: MD Zip Code: 20817
License No.: 15359160
Phone: 301-334-7471 Fax: -
Email: Frank.bucceri@comcast.net
Engineer/Architect Company: Avoca Engineers
Responsible Design Prof.: Kevin Kearney
Address: 242 Old New Brunswick Road
City: Piscataway State: NJ Zip Code: 08854
Phone: 732-465-1002 Fax: -
Email: kearny@avocagroup.com

Commercial Building Characteristics	Residential Building Characteristics
Height: <u>12 feet</u>	<input type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse
No. of stories: <u>1</u>	Depth Width
Gross area, sq. ft./floor: <u>3.8</u>	1st floor:
<u>Acre</u>	2nd floor:
Area of construction (sq. ft.): <u>3.8 Acre</u>	Basement:
Use group:	<input type="checkbox"/> Finished Basement
Construction type:	<input type="checkbox"/> Unfinished Basement
<input type="checkbox"/> Reinforced Concrete	<input type="checkbox"/> Crawl Space
<input type="checkbox"/> Structural Steel	<input type="checkbox"/> Slab on Grade
<input type="checkbox"/> Masonry	No. of Bedrooms:
<input type="checkbox"/> Wood Frame	Multi-family Dwelling
<input type="checkbox"/> State Certified Modular	No. of efficiency units:
	No. of 1 BR units:
	No. of 2 BR units:
	No. of 3 BR units:
	Other Structure:
	Dimensions:
Roadside Tree Project Permit	Footings:
<input type="checkbox"/> Yes <input type="checkbox"/> No	Roof:
Roadside Tree Project Permit #	<input type="checkbox"/> State Certified Modular
	<input type="checkbox"/> Manufactured Home

Utilities	
Electric:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Gas:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Water Supply	
<input type="checkbox"/> Public	<u>NO</u>
<input type="checkbox"/> Private	
Sewage Disposal	
<input type="checkbox"/> Public	<u>NO</u>
<input type="checkbox"/> Private	
Heating System	
<input type="checkbox"/> Electric	<input type="checkbox"/> Oil
<input type="checkbox"/> Natural Gas	<input type="checkbox"/> Propane Gas
<input type="checkbox"/> Other:	<u>NO</u>
Sprinkler System:	
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Grading Permit Number: <u>20 2020</u>	
Building Shell Permit Number: <u>20 2020</u>	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: Frank J. Bucceri
Email Address: Frank.bucceri@comcast.net
Title/Company: Construction Manager
Print Name: Frank J. Bucceri
Date: July 1, 2020

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY
PLEASE WRITE NEATLY & LEGIBLY
-FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health	<u>8/6/20</u>	<u>Auth</u>

Is Sediment Control approval required for issuance? ☐ Yes ☐ No
☐ CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION	
Front:	
Rear:	
Side:	
Side St.:	
All minimum setbacks met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone:	
SDP/Red-line approval date:	

Filing Fee	\$
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$ <u>ATC</u>
Sub- Total Paid	\$
Balance Due	\$
Check	# <u>NON</u>

Distribution of Copies: White: Building Officials Green: PSZA,Zoning Yellow: PSZA,Engineering Pink: Health Gold: SHA

perations\Updated Forms\BuildingPermitApplication03.29.2018.docx

ELECTRICAL PLAN

HENRYTON ROAD - VANM

SOLAR POWER GENERATION FACILITY

1825 SAND HILL ROAD,
MARRIOTTSVILLE, MD 21104

PROJECT DEVELOPER
NAUTILUS SOLAR ENERGY, LLC
396 SPRINGFIELD AVE
2ND FLOOR
SUMMIT, NJ 07901
(908) 795-3040

PROJECT EPC
SOLAMERICA ENERGY SERVICES, LLC
PEACHTREE PALISADES
1819 PEACHTREE RD., SUITE 100
ATLANTA GEORGIA 30309
PETER CORBETT
(404) 351-8175
FRANK BUCCERI
(201) 331-7471

ELECTRICAL ENGINEER
AVOCA ENGINEERS & ARCHITECTS, LLC
242 OLD NEW BRUNSWICK ROAD
PISCATAWAY, NEW JERSEY 08854
(732) 465-1002
KEVIN LEARY, PE
LIC. NO. 43259

CIVIL ENGINEER
ROBERT H. VOGEL ENGINEERING, INC.
3300 N. RIDGE ROAD, SUITE 110
ELLICOTT CITY, MD 21043
(410) 461-7686
ROBERT H. VOGEL, PE
PE NO. 16193

AUTHORITY HAVING JURISDICTION (AHJ)
HOWARD COUNTY DEPT. OF INSPECTION & PERMITS
GEORGE HOWARD BLDG
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MD 21043
(410) 313-2455

DESIGN CRITERIA
1. INTERNATIONAL BUILDING CODE, 2018 EDITION
2. NATIONAL ELECTRICAL CODE
(NFPA 70), 2017 EDITION, WITH HOWARD COUNTY
AMENDMENTS
3. 115 MPH WIND - EXPOSURE C
4. 25 PSF GROUND SNOW LOAD

PROJECT DESCRIPTION
THE PROJECT CONSISTS OF THE FOLLOWING:

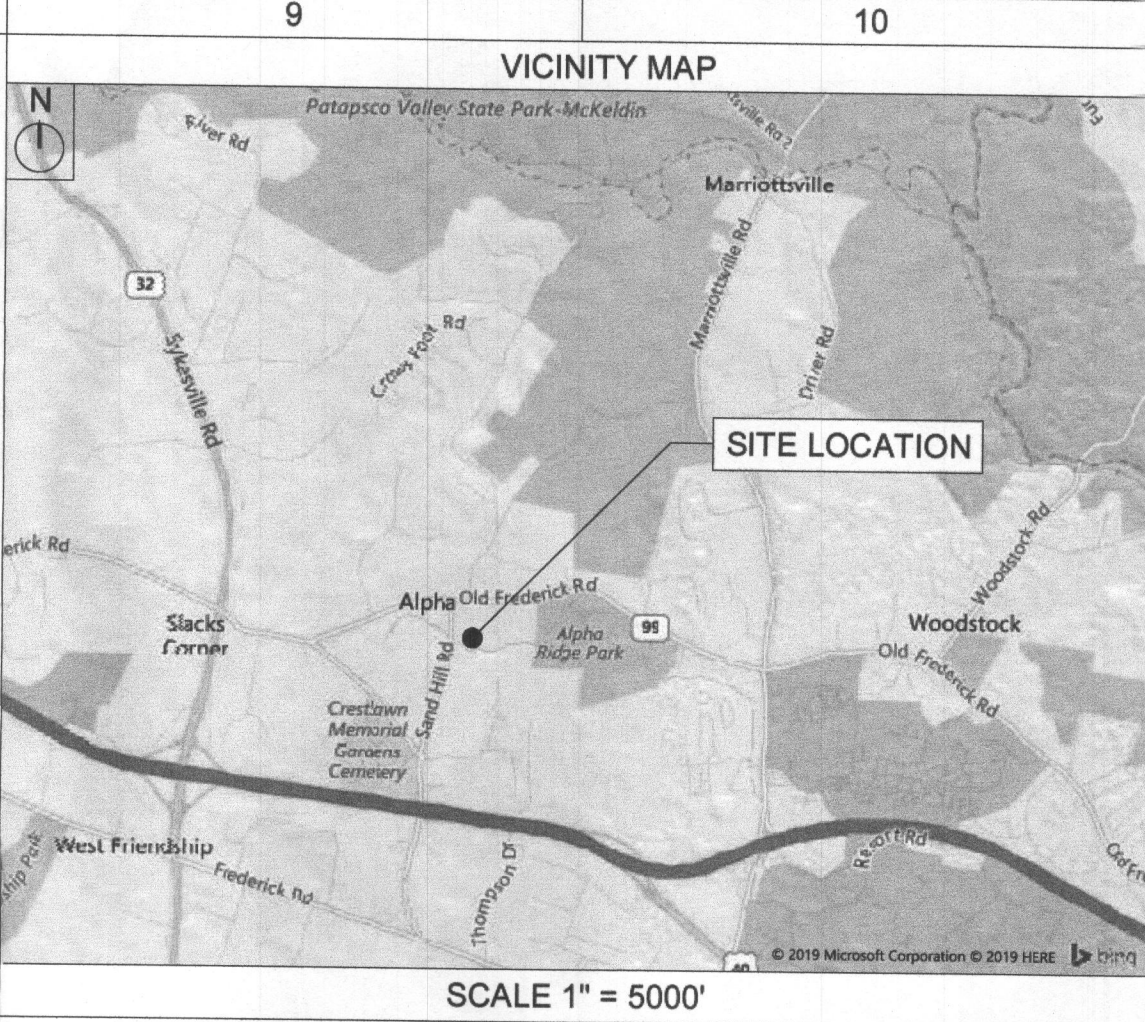
- INSTALLATION OF THE SOLAR PV MODULES AND GROUND MOUNTING SYSTEM ON OPEN LAND.
- INSTALLATION OF DC CABLES, CONDUITS AND DISCONNECTS.
- INSTALLATION OF THE DC TO AC INVERTERS ON INDIVIDUAL GALVANIZED BACKBOARDS NEXT TO SOLAR FLEXRACK SINGLE AXIS TRACKER SYSTEM.
- INSTALLATION OF THE INTERCONNECTION WITH BALTIMORE GAS AND ELECTRIC. INCLUDING CONDUIT AND WIRE.
- INSTALLATION OF A PERIMETER FENCE.

GENERAL NOTES

- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, CONDITIONS AND BRING TO THE ENGINEER'S ATTENTION ANY DISCREPANCY OBSERVED IMMEDIATELY.
- THE CONTRACTOR SHALL COORDINATE OBTAINING ALL REQUIRED PERMITS.
- ALL DRAWINGS NOTES, & SPECIFICATIONS ARE COMPLIMENTARY, ANY WORK SHOWN OR REFERRED TO ON ANY ONE DRAWINGS SHALL BE PROVIDED AS THOUGH SHOWN ON ALL RELATED DRAWINGS. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL VERIFY WITH THE ENGINEER.
- THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY CHANGES AND DEVIATION OF APPROVED PLANS NOT AUTHORIZED BY THE ARCHITECT, ENGINEER AND/OR OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING, SHORING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS AND MISALIGNMENT. SUCH TEMPORARY BRACING AND SHORING SHALL REMAIN IN-PLACE UNTIL PERMANENT CONSTRUCTION HAS BEEN COMPLETED.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS INCLUDING SAFETY.
- FOR DETAILED NOTES SEE E-002.

Brook 279

DRAWING SCHEDULE		
DWG.NO.	DRAWING TITLE	REV
E-001	COVER SHEET	9
E-002	GENERAL NOTES	9
E-101	GENERAL SITE OVERVIEW	9
E-201	AC ONE LINE DIAGRAM	9
E-211	DC ONE LINE DIAGRAM	9
E-221	CONDUCTOR SCHEDULES	9
E-301	MONITORING SYSTEM	9
E-401	CABLE AND CIRCUIT LAYOUT	9
E-402	CABLE AND CIRCUIT LAYOUT	9
E-403	CABLE AND CIRCUIT LAYOUT	9
E-411	TRACKER POWER SITE PLAN	9
E-501	TRANSFORMER LAYOUT	9
E-502	EQUIPMENT WORKING SPACE	9
E-511	SWITCHGEAR DETAILS	9
E-521	CONDUIT AND WIRE MANAGEMENT 1 OF 2	9
E-531	CONDUIT AND WIRE MANAGEMENT 2 OF 2	9
E-541	TRENCH DETAILS	9
E-551	MISCELLANEOUS DETAILS	9
E-601	GENERAL GROUNDING	9
E-602	STRUCTURE GROUNDING	9
E-603	MV EQUIPMENT GROUNDING	9
E-604	FENCE GROUNDING	9
E-701	MV SITE PLAN AND TRENCH	9
E-801	LABELS AND SIGNAGE 1 OF 2	9
E-811	LABELS AND SIGNAGE 2 OF 2	9
E-901	SPEC SHEETS	9



1819 Peachtree Rd. NE - Suite 100
Atlanta, GA 30309 (404) 351-8175

PERMIT DRAWING - NOT
RELEASED FOR CONSTRUCTION
CERTIFICATION

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. 43259, EXPIRATION DATE:
JANUARY 15, 2021.

CONSULTANT

AVOCA
ENGINEERS
ARCHITECTS

242 OLD NEW BRUNSWICK ROAD PISCATAWAY NJ 08854
PHONE (732) 465-1002 FAX (732) 465-1005
MARYLAND ENGINEERING FIRM REGISTRATION NO. 49489

NO.	DATE	DESCRIPTION
1	02/20/19	ISSUED FOR REVIEW
2	02/20/19	PROJECT NAME CHANGE ONLY
3	02/20/19	REVISED PER COMMENTS, ADDED AC TRACKER POWER
4	02/20/20	ADD PARTIAL STRING RACKS TO INCREASE DC SIZE
5	02/20/20	REVISED MODULE COUNT IN DATA TABLE AND TRACKER
6	05/14/20	ISSUED FOR PERMIT
7	05/17/20	REVISED GRAVEL TURN AROUND
8	07/02/20	REVISED GRAVEL TURN AROUND

PLT STAMP: JUL 20 2020
DIVISION: PERMITS & DIVISION

**HENRYTON ROAD VAM
SOLAR PROJECT**

1825 SAND HILL ROAD,
MARRIOTTSVILLE, MD 21104



DATE:	11/14/19
DRAWN BY:	K.M.
CHECKED BY:	K.L.

COVER
SHEET

E-001

</


1819 Peachtree Rd. NE - Suite 100
Atlanta, GA 30309 (404) 351-8175



PERMIT DRAWING - NOT RELEASED FOR CONSTRUCTION CERTIFICATION

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. 12529, EXPIRATION DATE JANUARY 15, 2021.

CONSULTANT



240 OLD NEW BRUNSWICK ROAD, FISCATAWAY NJ 08843
PHONE (732) 465-1002 FAX (732) 465-1005
MARYLAND ENGINEERING FIRM REGISTRATION NO. 44489

REVISIONS		DESCRIPTION
NO.	DATE	REISSUED FOR REVIEW
1	12/20/19	PROJECT NAME CHANGE ONLY
2	02/01/20	REVISED PER COMMENTS, ADDED AC TRUCKER POWER
3	02/01/20	ADD PARTIAL STRING BACKS TO INCREASE DC SIZE
4	02/26/20	REVISED MODULE COUNT, DATA TABLE AND TRACKER
5	05/14/20	ISSUED FOR PERMIT
6	06/11/20	REVISED GRAVEL TURY AROUND
7	06/11/20	REVISED GRAVEL TURY AROUND

PROJECT: 16-01158

RECEIVED

JUL 20 2020

LICENSES & PERMITS DIVISION

HENRYTON ROAD VANM SOLAR PROJECT

1825 SAND HILL ROAD, MARIOTTTSVILLE, MD 21104

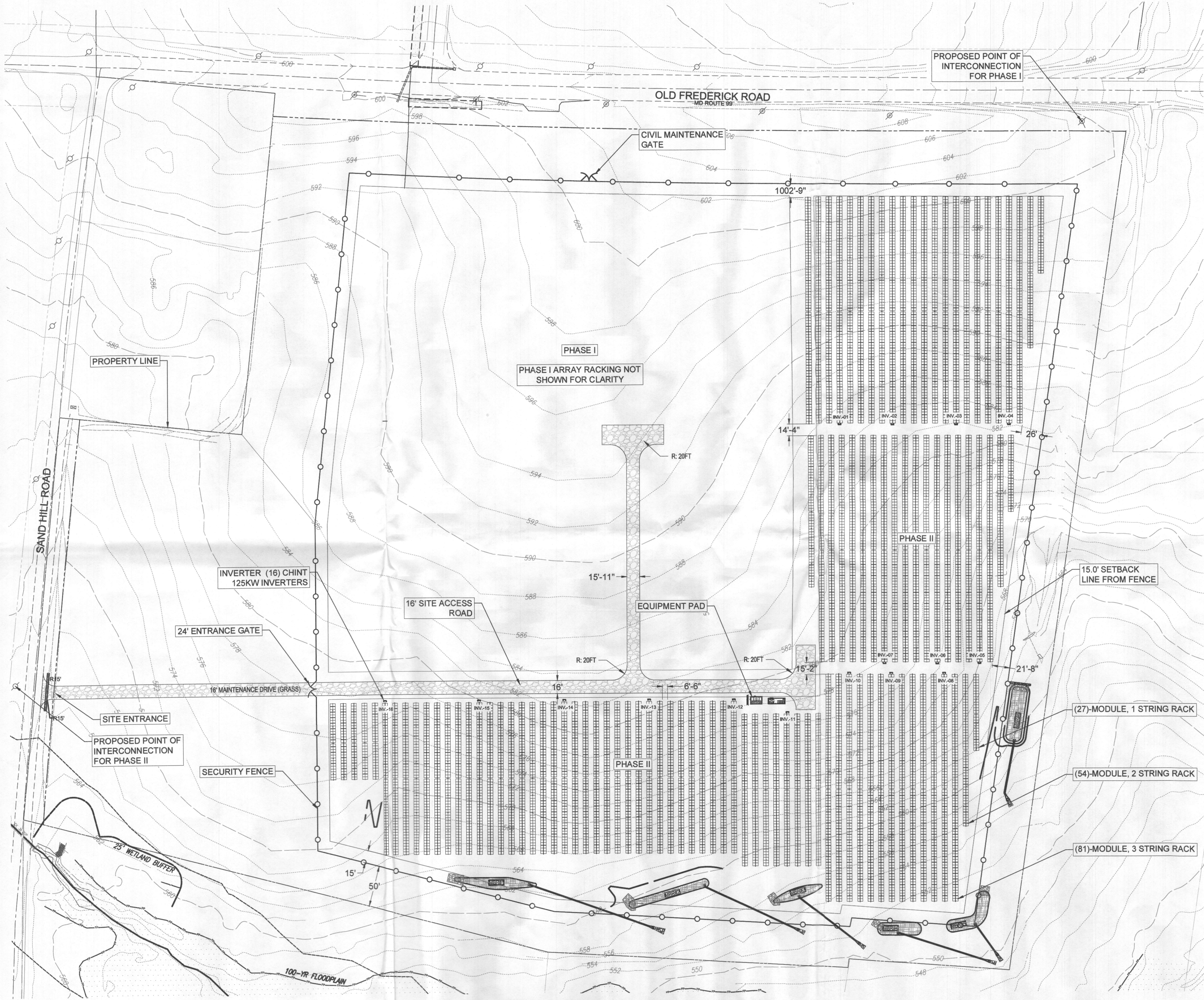
DATE: 11/14/19

DRAWN BY: K.M.

CHECKED BY: K.L.

GENERAL NOTES

E-002



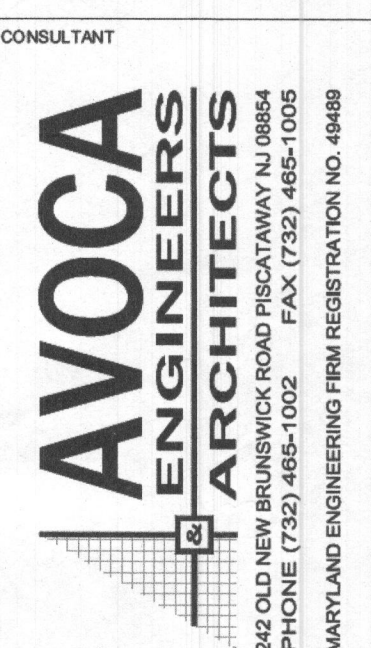
1 GENERAL SITE OVERVIEW
E-101
SCALE: 1" = 60'

PROJECT SPECIFICATIONS DESIGN SUMMARY TABLE HENRYTON ROAD VANM	
SYSTEM SIZE (AC)	2.000 MW
SYSTEM SIZE (DC)	2.596 MW
DC/AC RATIO	1.30
MEDIUM VOLTAGE TRANSFORMER	2,000 KVA
RACKING SYSTEM	SOLAR FLEXRACK
STRING SIZE	27
STRING COUNT	253
INVERTER(S)	CHINT-SCA 125KW
INVERTER QUANTITY	16
MODULE MAKE	ADANI BIFACIAL
MODULE MODEL	380
MODULE STC RATING	380W
MODULE QUANTITY	6,831
RACK CONFIGURATION	(1) HIGH IN PORTRAIT
MODULE ORIENTATION	PORTRAIT
TILT ANGLE	+/-TBD°
GROUND COVERAGE RATIO	50.2%
AZIMUTH	180°
LATITUDE	39.321007
LONGITUDE	-76.925859
CODE CYCLE	2017



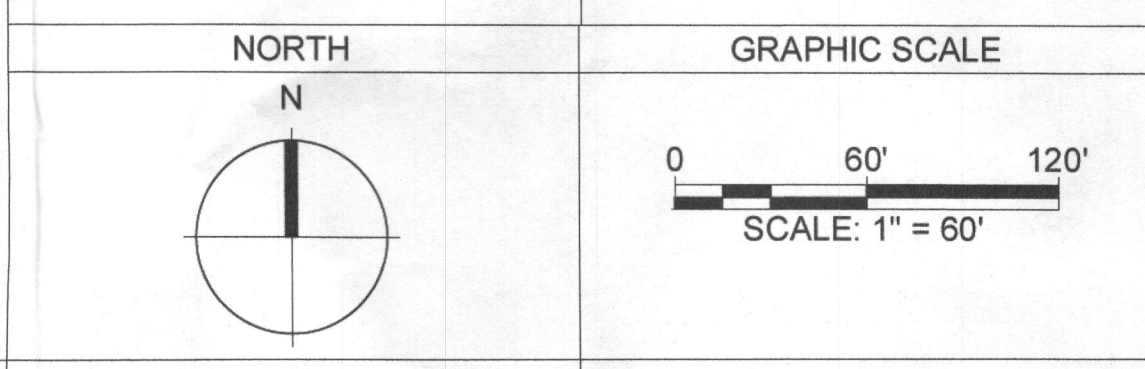
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PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MARYLAND,
LICENSE NO. 43259, EXPIRATION DATE:
JANUARY 15, 2021.



Approval B20002179
R/E 8/6/2020

EXISTING CONDITIONS		NEW CONDITIONS	
100 YR FLOODPLAIN	---	BASIN AREA	---
BUILDING SETBACK	---	CONCRETE EQUIPMENT PAD	---
EDGE OF PAVEMENT	---	GRAVEL ACCESS ROAD	---
EXISTING EASEMENT	---	LIMITS OF DISTURBANCE	---
EXISTING FENCE	---	PROJECT AREA	---
EXISTING ELECTRICAL	---	EASEMENT	---
EXISTING TREELINE LEFT	---	OVERHEAD ELECTRICAL	---
JURISDICTIONAL DITCH	---	UNDERGROUND ELECTRICAL	---
JURISDICTIONAL RIPARIAN BUFFER - 50'	---	SECURITY FENCE	---
JURISDICTIONAL STREAM	---	SILT FENCE	---
JURISDICTIONAL WETLAND	---	VEGETATIVE BUFFER	---
MAJOR CONTOURS	---		
MINOR CONTOURS	---		
PROPERTY BOUNDARY	---		
PROPERTY (ADJOINER)	---		
RAILROAD	---		
RIGHT-OF-WAY	---		
STREET CENTERLINE	---		
STRUCTURES	---		



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8	REVISED GRAVEL TURN-AROUND
9	GENERAL SITE OVERVIEW DWS

HENRYTON ROAD VANM
SOLAR PROJECT
1825 SAND HILL ROAD
MARIOTTSVILLE, MD 21104

DATE:	11/14/19
DRAWN BY:	EG
CHECKED BY:	K.L.
GENERAL SITE OVERVIEW	
E-101	