

Approved 8/14/24

-H.O.

Record Detail * (This section is required.)

Permit Type: Building/Commercial/Misc/NA
 Permit Number: B24002482
 Opened Date: 07/03/2024

Description of Work: Pivot Energy/ INSTALL 5454 GROUND MOUNT SOLAR PANELS

check spelling

Online BP.

g 8/13/24

Address * (This section is required.)

Search Reset Clear Get Parcel & Owner

Street #: 11911
 Street Name: HALL SHOP
 Street Type: RD

Unit Type: --Select--
 Unit #: --
 X Coordinate: -76.92411
 Y Coordinate: 39.18658

City: CLARKSVILLE
 State: MD
 Zip Code: 21029
 Primary: Yes

Parcel * (This section is required.)

Search Reset Clear Get Address & Owner

| GIS ID * | Parcel | Parcel Area | Land Value | Improved Value | Exemption Value | Plan Area |
|----------|--------|-------------|------------|----------------|-----------------|-----------|
| 1104160 | 68 | 53.11 | 365500 | 656700 | 357600 | RURAL |

Legal Description: LOT 1 & IMPS 53.112 []6838 GUILFORD RD []ROBERT C COLE PROP

check spelling

| Block | Lot | Census Tract | Council Dist | Inspection Dist | Supervisor Dist | Map # | DAP Zone |
|-------|-----|--------------|--------------|-----------------|-----------------|-------|----------|
| | 1 | 605102 | 4 | | | | |

Plan Area: State Tax Id: 1405346495
 Subdivision Name: Robert C. Cole Property

Section: Area: Tax Map: 35

Grid: 35-20
 Zoning District: RR-DEO
 ADC Map: 5052-C1

SDP No.: SDP-22-022
 Final Plan No.: ECP-22-019
 WP File No.:

Record Plat No.: 23328
 WS Contract No.: FDP No.: Primary: Yes

Owner Occupied: Yes No
 Year Built: 1959
 Historic District: Yes No

Historic District Registry No.: Stat Area: 5-15A
 Flood Plain: Yes No

Building No:

Owner (This section is not required.)

Search Reset Clear

Name: DASTC
 Address Line 1: 6840 GUILFORD RD
 Address Line 2:
 Address Line 3:

Mail City: CLARKSVILLE
 Mail State: MD
 Mail Zip Code: 21029
 Phone: 301-996-6783
 Primary: Yes
 E-mail:

Cell Number Fax Number

Professionals (This section is not required.)

License # 154825 Business Name MILL CREEK RENEWABLES LLC
 License Type MHIC Co First Name Nawaf Middle Name Last Name Hassan
 Primary Yes Address Line 1 640 RTE 530 Address Line 2
 City WHITING State NJ ZIP Code 08759
 Phone 1 Phone 2 Fax
 E-mail

Applicant (This section is not required.)

Search As Owner As Lic. Prof As Contact

Type Applicant First Name Kirk MI Last Name Nash
 Relationship Applicant Full Name KIRK NASH
 Primary No Organization Name MILL CREEK RENEWABLES LLC
 Street Address 640 RTE 530 Address Line 2
 City WHITING State NJ Zip Code 08759
 Phone 574310379 Cell Fax
 E-mail knash@millcreekrenewables.com

Contact (This section is not required.)

Search As Owner As Lic. Prof As Contact

Type Contact First Name Kevin MI Last Name Leary
 Relationship Other Full Name KEVIN LEARY
 Primary Yes Organization Name AVOCA Engineering
 Street Address 242 Old New Brunswick Rd Address Line 2
 City Piscataway State NJ Zip Code 08855
 Phone 732-465-1002 Cell Fax
 E-mail kleary@avocagroup.com

Addtl Info

Est Construction Cost 4500000 Housing Units 0 Number of Buildings 0 Public Owned No
 Construction Type 437 - Additions, Alterations and Conversions - Commercial

COMMERCIAL PERMIT INFORMATION

BUILDING INFORMATION

Expedited Review Capital Project-No Fee Capital Project Number Fee Exempt Fee Exempt Group
 (Text) --Select--

Conditional No Yes No
 Yes No Yes No

Change In Use Yes No

Roadside Tree Permit Yes No

Roadside Tree Project Permit Yes No
 (Text)

Road Frontage
 County

Existin
 Agricu

Use Group
 Solar Collector - Ground Mount

Number of Solar Panels
 5454 (Number)

Tenant
 Pivot Energy (Text)

Assembly Yes No

Minor Alteration Yes No

Revision Fees? Yes No

Height FT (Number)

No of Stories (Number)

Gross Area - Sq Foot Per Floor (Number)

Area of Construction - SQ FT (Number) 2313558.72

Downtown Tax (Number)

Excise Tax at \$0.60 SQ FT (Number)

Excise Tax at \$1.17SQ FT (Number)

Construction Type
 IA Protected Construction

State Certified Module Yes No

Expiration Date
 2/5/2025

U&O Issued On

U & O Comments

[check spelling](#)

UTILITY INFORMATION

Water Supply Private

Sewage Disposal Private

Utilities Electric

Heating System Other - See Description

Geothermal Yes No

Sprinkler System None

GREEN BUILDING INFORMATION

Goal Level --Select--

Actual Level --Select--

Leed Registration Number (Text)

Date of Leed Certification

Submit Cancel

Mill Creek Renewables  **Mill Creek Renewables**
640 Rt. 530
Whiting, New Jersey 08759
P: +17322414600

Tenant Letter

Mill Creek Renewables, LLC is proposing the installation of a 2,972kW ground mounted solar panel system located at 11911 Hall Shop Rd, Clarksville, MD 21029. The tenant of this project will be BG&E Utility. The solar system will be interconnected to the existing BG&E Utility 13.2kV feeder service along Lime Kiln Road.

GENERAL NOTES

- WATERSHED NAME: MIDDLE PATUXENT RIVER
WATERSHED NUMBER: 02131108
- A. GROSS SITE AREA: 12.80 AC. (PER CONDITIONAL USE PLAN)
 - B. AREA OF 100-YEAR FLOODPLAIN: 2.54 AC. (PER CONDITIONAL USE PLAN)
 - C. AREA OF WETLANDS AND BUFFERS (ON PROPERTY): 2.47 AC.
 - D. AREA OF STREAM AND BUFFERS (ON PROPERTY): 0.30 AC.
 - E. AREA OF 25% STEEP SLOPES: 25.93 AC.
 - F. ZONED: RR-DEO
 - G. EXISTING USE: AGRICULTURE
 - H. PROPOSED USE: SOLAR PANEL FARM

- NOTE:**
- NO ENVIRONMENTAL FEATURES ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE.
 - NO RARE, THREATENED OR ENDANGERED SPECIES WERE OBSERVED OR HAVE BEEN REPORTED TO OCCUR ON THE PROJECT AREA.
 - THE WETLANDS AND STREAMS ON THE SITE ARE WITHIN THE USE WY WATERSHED OF THE MIDDLE PATUXENT RIVER (02-13-11). NO WETLANDS, STREAMS OR BUFFER OCCUR WITHIN THE PROPOSED PROJECT AREA.
 - NO 100 YEAR FLOODPLAIN IS PRESENT ON THE PROJECT AREA.
 - STEEP SLOPES ARE NOT PRESENT WITHIN THE PROJECT AREA.
 - NO HISTORIC ELEMENTS OF CEMETERIES ARE KNOWN TO OCCUR ON THE PROJECT AREA.
 - NO FOREST OCCURS WITHIN THE PROJECT AREA. SPECIMEN TREES ARE PRESENT WITHIN THE PROJECT AREA AND ARE TO REMAIN.
 - NO MARYLAND STATE CHAMPION TREES OR TREES 75% OF STATE CHAMPION TREES EXIST ON SITE.

****FOREST CONSERVATION WORKSHEET BASED ON COUNCIL BILL CB62-2019****

FOREST CONSERVATION WORKSHEET FOR GULFORD SOLAR

| | | |
|------------------------------------|-------|-----|
| Net Tract Area | | |
| A. Total (Gross) Tract Area | 12.80 | Ac. |
| B. Area within 100 year Floodplain | 2.54 | Ac. |
| C. Other Conservation Priority | 0.00 | Ac. |
| D. Net Tract Area | 10.26 | Ac. |

Land Use Category

| | | |
|--------|-------|-----|
| Forest | 0.00 | Ac. |
| Other | 10.26 | Ac. |

Existing Forest Cover

| | | |
|--------|------|-----|
| Forest | 0.00 | Ac. |
| Other | 0.00 | Ac. |

Proposed Forest Clearing

| | | |
|-------------------------------------|------|-----|
| Total Area of Forest to be Cleared | 0.00 | Ac. |
| Total Area of Forest to be Retained | 0.00 | Ac. |

Planting Requirements Inside Watershed

| | | |
|--|------|-----|
| Reforestation for Existing Areas Below Reforestation Threshold | 0.00 | Ac. |
| Reforestation for Clearing Above the Reforestation Threshold | 0.00 | Ac. |
| Other | 0.00 | Ac. |

Planting Requirements Outside Watershed

| | | |
|--|------|-----|
| Total Replanting within Development Site Watershed | 0.00 | Ac. |
| Total Replanting Outside Watershed | 0.00 | Ac. |

THE FOREST CONSERVATION OBLIGATION FOR THIS PROJECT IS 3.82 ACRES OF AFFORESTATION, WHICH SHALL BE SATISFIED BY ON-SITE RETENTION OF EXISTING FOREST ON LOT 1 OUTSIDE THE PROJECT AREA A 2.47 ACRES.

FOREST CONSERVATION EASEMENT TABLE

| EASEMENT | RETENTION | | REFORESTATION | TOTAL |
|----------|-----------|--------------|---------------|---------|
| | CREDITED | NON-CREDITED | | |
| FCE#1 | 2.47 AC | 0 AC | 0 AC | 2.47 AC |
| FCE#2 | 1.01 AC | 0 AC | 0 AC | 1.01 AC |
| FCE#3 | 0.34 AC | 0 AC | 0 AC | 0.34 AC |
| TOTAL | 3.82 AC | 0 AC | 0 AC | 3.82 AC |

SEQUENCE OF CONSTRUCTION-FOREST CONSERVATION

- PRECONSTRUCTION MEETING / SITE WALK WITH CONTRACTORS AND OTHER RESPONSIBLE PARTIES TO DEFINE PROTECTION MEASURES TO BE UTILIZED AND TO POINT OUT PARTICULAR TREES TO BE SAVED.
- STAKE OUT LIMITS OF DISTURBANCE AND TREE PROTECTION FENCING LOCATIONS.
- INSTALL TREE PROTECTION FENCING; FENCING TO BE INSPECTED BY THE PROJECT ENGINEER OR THE PROJECT ECOLOGIST AND HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS—CONSTRUCTION INSPECTION DIVISION.
- PROCEED WITH TREE REMOVAL AND SITE IMPROVEMENTS AS PER APPROVED SEDIMENT CONTROL PLAN — TO BE INSPECTED BY HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS—CONSTRUCTION INSPECTION DIVISION.
- TEMPORARY TREE PROTECTION DEVICES SHALL BE REMOVED AFTER ALL FINISHED GRADING AND UTILITY CONSTRUCTION HAS OCCURRED AND WITH APPROVAL FROM THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS—CONSTRUCTION INSPECTION DIVISION.

FOREST RETENTION AREAS AND NOTES

- THERE ARE WETLANDS AND WETLAND BUFFERS LOCATED ON-SITE.
- NO RARE, THREATENED OR ENDANGERED SPECIES WERE OBSERVED ON THIS SITE.
- FORESTED AREAS ADJACENT TO FLOODPLAINS AND STREAM BUFFERS ARE SUBSTANTIALLY RETAINED IN FOREST CONSERVATION EASEMENTS.
- CHANGES IN GRADING AND RUNOFF WITHIN CONSTRUCTION/INSTALLATION AREAS WILL NOT ADVERSELY AFFECT THE SOILS WITHIN THE FOREST RETENTION AREA. SEDIMENT CONTROL MEASURES WILL REDIRECT CONCENTRATED FLOW RUNOFF TO STORMWATER MANAGEMENT FACILITIES, RETAIN SEDIMENT WITHIN THE CONSTRUCTION SITE, AND/OR REDIRECT CLEAN WATER AWAY FROM CONSTRUCTION AREAS.
- THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.124 OF THE HOWARD COUNTY CODE. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DATE: 4/13/2023

CHIEF, DEVELOPMENT ENGINEERING DIVISION

DATE: 4/14/2023

CHIEF, DIVISION OF LAND DEVELOPMENT

DATE: 4/17/2023

DIRECTOR

CONSTRUCTION PERIOD PROTECTION AND MANAGEMENT NOTES FOR FOREST CONSERVATION

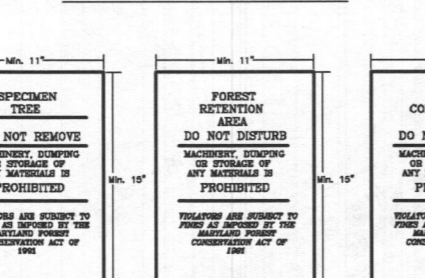
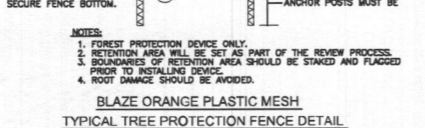
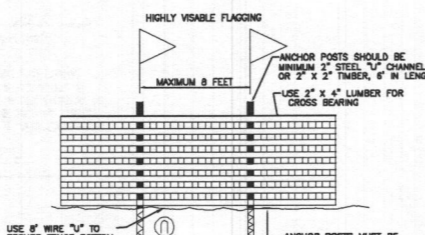
- PRE-CONSTRUCTION PHASE**
- FOR RETENTION AREAS, INSTALL BLAZE ORANGE FENCE AND RETENTION SIGNS BEFORE CONSTRUCTION BEGINS.
 - FENCING SHALL BE MAINTAINED IN GOOD CONDITION AND PROMPTLY REPAIRED OR RESTORED AS THE SITUATION WARRANTS.
 - A QUALIFIED TREE CARE EXPERT SHALL DETERMINE IF ROOT PRUNING IS REQUIRED ALONG THE LIMIT OF DISTURBANCE. ROOT PRUNING TREES AS REQUIRED, WITHIN ANY ROOT-PRUNED TREES IMMEDIATELY AFTER ROOT-PRUNING AND MONITOR FOR SIGNS OF STRESS DURING CONSTRUCTION.
- CONSTRUCTION PHASE**
- NO DISTURBANCE OR DUMPING IS ALLOWED INSIDE THE TREE RETENTION AREA.
 - NO EQUIPMENT SHALL BE OPERATED INSIDE THE TREE RETENTION AREA INCLUDING TREE DUMPERS.
 - IN THE EVENT OF DROUGHT, THE PROTECTED TREES SHALL BE MONITORED FOR SIGNS OF STRESS AND WATERED AS NEEDED.
- POST-CONSTRUCTION PHASE**
- AT THE DIRECTION OF A QUALIFIED TREE CARE EXPERT, DAMAGES TO RETAINED TREES SHALL BE REPAIRED BY THE CONTRACTOR.
 - FENCE REMOVAL AND STABILIZATION SHALL BE AS PER THE SEDIMENT AND EROSION CONTROL PLAN.
 - DO NOT REMOVE SIGNS.

DEVELOPER'S/BUILDER'S CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE (1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Signature of Developer: Adam Best

DATE: 2/24/2023



NOTE:

- BOTTOM OF SIGNS TO BE HIGHER THAN TOP OF TREE PROTECTION FENCE.
- SIGNS TO BE PLACED APPROXIMATELY 50-100 FEET APART, CONDITIONS ON SITE AFFECTING VISIBILITY MAY WARRANT PLACING SIGNS CLOSER OR FARTHER APART. WHERE SIGNS ARE TO BE PLACED AT THE REAR OF PROPOSED LOTS, SPACING SHALL BE APPROX. 25-30 FEET.
- ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.
- ALL FOREST CONSERVATION SIGNAGE SHALL BE IN PLACE FOR PERPETUITY.
- SIGN LOCATION SYMBOL = ●

FOREST CONSERVATION AREA SIGNS

SPECIMEN TREE PROTECTION NOTES FOR FENCING AND LANDSCAPING INSTALLATION

FENCING AND LANDSCAPING PLANTINGS WILL OCCUR WITHIN THE CRITICAL ROOT ZONE OF SPECIMEN TREES THAT ARE PRESENT AROUND THE PERIMETER OF THE PROPERTY. THE LOCATION OF THE FENCING AND LANDSCAPING HAS BEEN MODIFIED TO MINIMIZE ROOT ZONE IMPACTS.

INSTALLATION OF THESE FEATURES SHALL BE PERFORMED IN A MANNER THAT WILL MINIMIZE IMPACTS TO THE ROOT ZONES OF THE TREE.

LANDSCAPING INSTALLATION - TREE AND SHRUBS TO BE INSTALLED WITHIN THE CRITICAL ROOT ZONE OF A SPECIMEN TREE SHALL BE INSTALLED BY HAND WITH NO MECHANIZED EQUIPMENT BEING PERMITTED WITHIN THE ROOT ZONE. WHEN EXCAVATING THE PLANTING PIT FOR THE LANDSCAPE PLANTINGS THE INSTALLER SHALL BE CAREFUL TO AVOID ANY MAJOR ROOTS. ANY ROOT 1 INCH OR LARGER DIAMETER SHALL BE ROOT PRUNED WITH SHARP HAND PRUNING SAW. IF ROOTS LARGER THAN 2" DIAMETER ARE ENCOUNTERED DURING INSTALLATION THE EXCAVATION SHALL BE MOVED TO AVOID IMPACT TO THAT ROOT. THE PLANTING FITS WITHIN THE CRITICAL ROOT ZONE OF A SPECIMEN TREE SHALL BE LIMITED TO ONLY THE MINIMUM AREA REQUIRED TO PLANT THE TREE/SHRUB. TYPICAL EXCAVATION OF A PLANTING PIT 2X THE WIDTH OF THE BALL SHALL BE AVOIDED.

FENCING INSTALLATION - WHERE FENCE POST INSTALLATION IS REQUIRED WITHIN THE CRITICAL ROOT ZONE OF A SPECIMEN TREE THE POSTS SHALL BE SPACED AT MAXIMUM DISTANCES FROM THE TRUNK AS POSSIBLE AND SHOULD AVOID ANY ROOTS 2 INCHES AND GREATER. IF POSSIBLE, POSTS MAY BE HAND DRIVEN, ANY ROOT 1 INCH OR GREATER IN DIAMETER SHALL BE ROOT PRUNED WITH A SHARP HAND PRUNING SAW. THERE SHALL BE NO USE OF A ROTARY DRILL WITHIN THE CRITICAL ROOT ZONE.

FOREST CONSERVATION PLAN:

J. Brody McAllister
ISA Certified Arborist
Cert ID: MA6471A
MD DNR PDA Qualified Professional

Eco-Science Professionals, Inc.
CONSULTING ECOLOGISTS
1400 WOODBURN AVE. SUITE 100, CLARKSVILLE, MD 21031

GENERAL NOTES

- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. A FINANCIAL SURETY IN THE AMOUNT OF \$24,750 FOR THE REQUIRED LANDSCAPING (REQUIRED 18 SHADE TREES \$5,400, AND 129 EVERGREEN TREES \$19,350) SHALL BE POSTED WITH THE FINAL DEVELOPERS AGREEMENT.
- IN A PLAN PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. DATED MARCH, 2021 AND MR. JOHN DANIELS IDENTIFIED THE ON-SITE FOREST, WETLANDS AND STREAMS.
 - NO FOREST OCCURS WITHIN THE PROJECT AREA. SPECIMEN TREES ARE PRESENT WITHIN THE PROJECT AREA AND ARE TO REMAIN.
- NO GRADING, REMOVAL OF EXISTING COVER OR TREES, PRUNING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE WETLANDS, STREAMS) OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100-YEAR FLOODPLAIN.

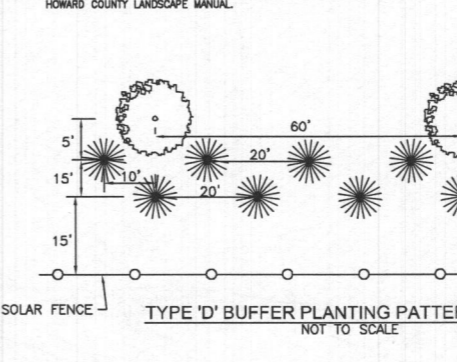
LANDSCAPE NOTES

- AT THE TIME OF PLANT INSTALLATION, ALL SHRUBS AND TREES LISTED AND APPROVED ON THE LANDSCAPE PLAN SHALL COMPLY WITH THE PROPER HEIGHT REQUIREMENT IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATIONS OF THE REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THE APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY. SUCH THE AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO THE APPLICABLE PLANS.
- THE FACILITY OPERATOR AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
- SHOULD ANY TREE DESIGNATED FOR PRESERVATION FOR WHICH LANDSCAPING CREDIT IS GIVEN, DIE PRIOR TO RELEASE OF BONDS, THE OWNER WILL BE REQUIRED TO REPLACE THE TREE WITH THE EQUIVALENT SPECIES OR WITH A TREE WHICH WILL OBTAIN THE SAME HEIGHT, SPREAD, AND GROWTH CHARACTERISTICS. THE REPLACEMENT TREE MUST BE A MINIMUM OF 3 INCHES IN CALIPER AND INSTALLED AS REQUIRED IN THE HOWARD COUNTY LANDSCAPE MANUAL.
- PLANTINGS SHOWN HEREON ARE THE RESPONSIBILITY OF THE DEVELOPER TO INSTALL DURING THE CONSTRUCTION OF THE SITE DEVELOPMENT PLAN.
- SURETY FOR THE PROPOSED LANDSCAPING SHALL BE BASED ON THE NUMBER OF PLANTINGS REQUIRED.

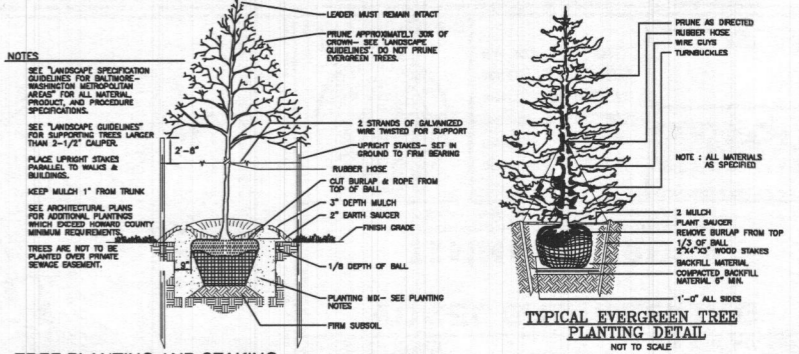
PERIMETER LANDSCAPE EDGE LANDSCAPE SCHEDULE

| KEY | QUAN | BOTANICAL NAME | SIZE | REM |
|---------------------------|------|--|-----------------|-------|
| DECIDUOUS SHADE-18 | | | | |
| OM | 6 | ACER RUBRUM / OCTOBER GLORY | 2-1/2" - 3" CAL | B & B |
| BH | 5 | BETULA NIGRA HERITAGE / HERITAGE CLUMP RIVER BIRCH | 10"-12" HGT. | B & B |
| OP | 7 | QUERCUS PALustris / PIN OAK | 2-1/2" - 3" CAL | B & B |
| EVERGREEN-129 | | | | |
| IO | 42 | ILEX OPACA / AMERICAN HOLLY | 5"-6" HGT. | B & B |
| LC | 25 | CYPRESS OCYPARIS LEYLAND / LEYLAND CYPRESS | 5"-6" HGT. | B & B |
| PS | 31 | PINUS STROBUS / EASTERN WHITE PINE | 6"-8" HGT. | B & B |
| RC | 31 | JUNIPERUS VIRGINIANA CULTIVARS / RED CEDAR | 6"-8" HGT. | B & B |

NOTE: WITH PERMISSION FROM HOWARD COUNTY, PLANTINGS SPECIFIED HEREON MAY BE SUBSTITUTED WITH APPROVED SPECIES LISTED IN APPENDIX C OF THE HOWARD COUNTY LANDSCAPE MANUAL.



- NOTES:**
- FENCE SHALL BE WOVEN WIRE FABRIC INSTALLED AT A MAXIMUM OF 7' IN HEIGHT OR EQUIVALENT.
 - TYPE 'D' BUFFER TREES SHALL CONSIST OF A DOUBLE ROW OF OFFSET EVERGREEN TREES PLANTED AT INTERVALS OF 20' ON CENTER, ROWS OFFSET 15'; AND DECIDUOUS TREES PLANTED AT 80' ON CENTER.
 - EVERGREEN TREE SPECIES MAY INCLUDE:
 - a. CYPRESS OCYPARIS LEYLAND / LEYLAND CYPRESS (5'-6" HGT.)
 - b. ILEX OPACA / AMERICAN HOLLY (5'-6" HGT.)
 - c. PINUS STROBUS / EASTERN WHITE PINE (6"-8" HGT.)
 - d. JUNIPERUS VIRGINIANA CULTIVARS / RED CEDAR (6"-8" HGT.)
 - DECIDUOUS TREE SPECIES MAY INCLUDE:
 - a. QUERCUS PALustris / PIN OAK (2-1/2" - 3" CAL)
 - b. BETULA NIGRA HERITAGE / HERITAGE CLUMP BIRCH (10" - 12" HGT.)
 - c. ACER RUBRUM / OCTOBER GLORY / OCTOBER GLORY RED MAPLE (2 1/2"-3 1/2" CAL)
 - IN ADDITION TO THOSE SPECIES IDENTIFIED ON NOTES # 3 & 4, OTHER SPECIES, TO BE APPROVED, MAY BE SUBSTITUTED OR UTILIZED.



TREE PLANTING AND STAKING

DECIDUOUS TREES UP TO 2-1/2" CALIPER NOT TO SCALE

NOTE: PLANTING SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS FROM THE LANDSCAPE CONTRACTORS ASSOCIATION OF MD, DC AND VA.

SCHEDULE A PERIMETER LANDSCAPE EDGE

| CATEGORY | ADJACENT TO ROADWAYS AND PERIMETER PROPERTIES | | | | TOTAL |
|--|---|---------------|----------|----------|-------|
| | D | D | D | D | |
| PERIMETER TREE DESIGNATION | 3 | 3 | 3 | 3 | 12 |
| LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER | 968 | 461 | 1078 | 616 | |
| CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) DESCRIBE BELOW IF NEEDED | YES 181 | 4 SHADE TREES | 1078 | 616 | |
| CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) DESCRIBE BELOW IF NEEDED | NO | NO | NO | NO | |
| NUMBER OF PLANTS REQUIRED | 805 | 3 | 3 | 3 | 22 |
| SHADE TREES | 1:50 = 14 | 1:50 = 8 | 1:50 = 0 | 1:50 = 0 | 22 |
| EVERGREEN TREES | 1:10 = 81 | 1:10 = 48 | 1:10 = 0 | 1:10 = 0 | 129 |
| NUMBER OF PLANTS PROVIDED | 54 | 8 | 0 | 0 | 22 |
| SHADE TREES | 81 | 48 | 0 | 0 | 129 |
| EVERGREEN TREES (1 SUBSTITUTION) | - | - | - | - | - |
| SHRUBS (101 SUBSTITUTION) | - | - | - | - | - |
| EX-SPECIMEN TREES TO REMAIN | - | - | - | - | - |
| DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED | - | - | - | - | - |

*INCLUDES 4 EXISTING SPECIMEN TREES TO REMAIN

LANDSCAPE SCHEDULE NOTES:

- ALL PLANT MATERIALS SHALL BE FULL AND HEAVY, BE WELL FORMED AND SYMMETRICAL.
- CONFORM TO THE MOST CURRENT ANN SPECIFICATIONS AND BE INSTALLED IN ACCORDANCE WITH HRO PLANTING SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
- FINAL LOCATION OF PLANT MATERIAL MAY NEED TO VARY TO MEET FINAL FIELD CONDITIONS. TREES SHALL NOT BE PLANTED IN THE BOTTOM OF DRAINAGE SWALES.
- CONTRACTOR SHALL VERIFY PLANT QUANTITIES PRIOR TO BIDDING. IF PLAN DIFFERS FROM LANDSCAPE SCHEDULE, THE PLAN SHALL GOVERN.

OWNER: JENNIFER DASTO, 5840 GULFORD ROAD, CLARKSVILLE, MD 21029

DEVELOPER: TPE MD H093, LLC, 3820 S. DEHLIA STREET, DENVER, CO 80237, PHONE: 970-379-3937

| NO. | REVISION | DATE |
|-----|----------|------|
| | | |

SITE DEVELOPMENT PLAN
FOREST CONSERVATION & LANDSCAPE NOTES AND DETAILS
GULFORD SOLAR

11911 HALL SHOP ROAD, CLARKSVILLE, MD 21029
TPE MD H093, LLC
DEED L 16699 F.381
ROBERT C. COLE PROPERTY - LOT 1
PLAT NO. 23328
ZONED RR-DEO
HOWARD COUNTY, MARYLAND

TAX MAP 35 BLOCK 20
5TH ELECTION DISTRICT

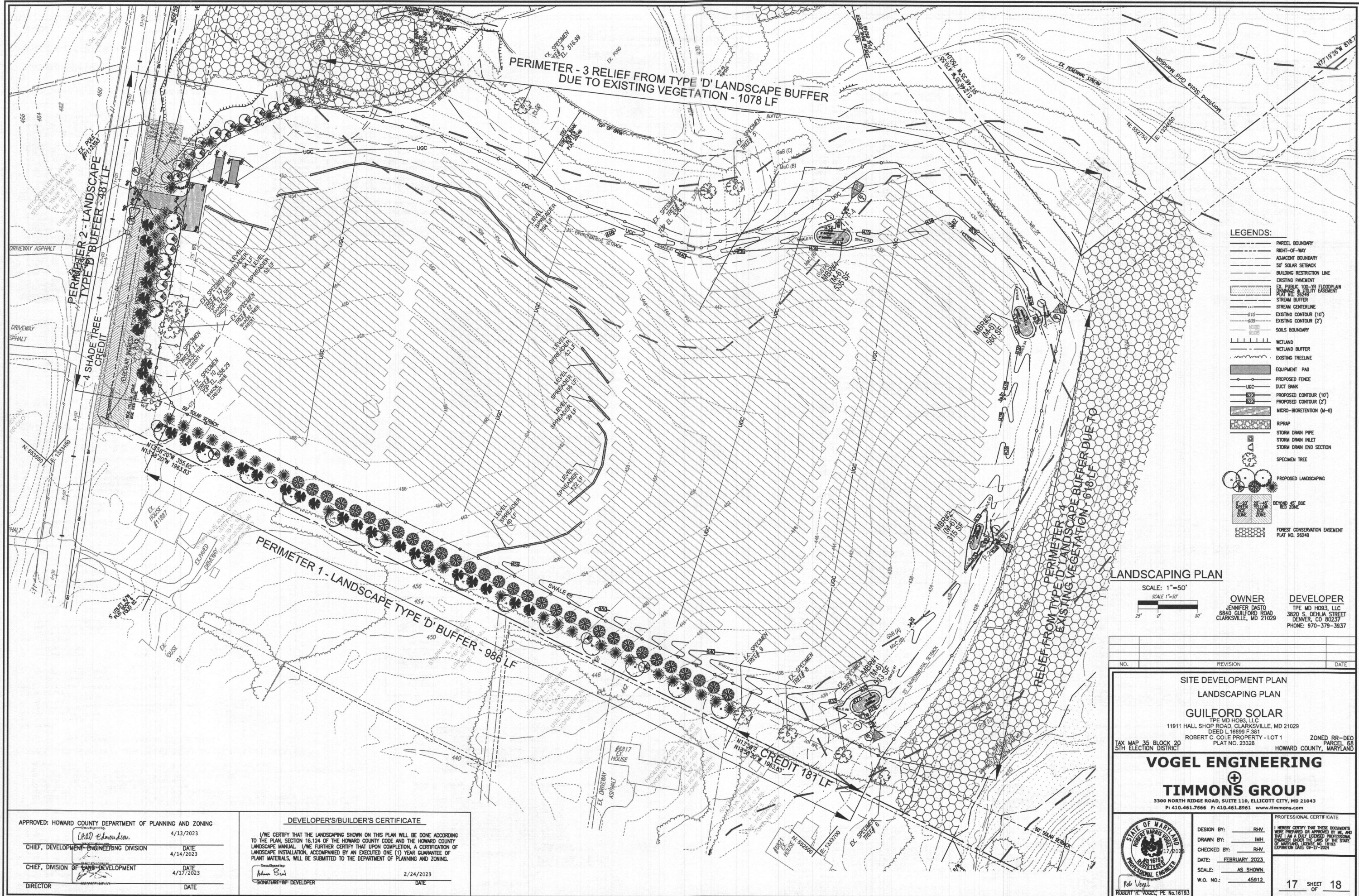
VOGEL ENGINEERING
TIMMONS GROUP

3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

DESIGN BY: RHV
DRAWN BY: RMH
CHECKED BY: RMH
DATE: FEBRUARY 2023
SCALE: AS SHOWN
W.O. NO.: 45912

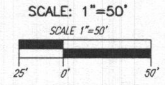
PROFESSIONAL CERTIFICATE
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 14195
EXPIRES 06-30-2024

18 SHEET OF 18



- LEGENDS:**
- PARCEL BOUNDARY
 - RIGHT-OF-WAY
 - ADJACENT BOUNDARY
 - 50' SOLAR SETBACK
 - BUILDING RESTRICTION LINE
 - EXISTING PAVEMENT
 - EX. PUBLIC 100-YD FLOODPLAIN
 - EX. UTILITY EASEMENT
 - STREAM BUFFER
 - STREAM CENTERLINE
 - EXISTING CONTOUR (10')
 - EXISTING CONTOUR (2')
 - SOILS BOUNDARY
 - WETLAND
 - WETLAND BUFFER
 - EXISTING TREELINE
 - EQUIPMENT PAD
 - PROPOSED FENCE
 - DUCT BANK
 - UGC
 - PROPOSED CONTOUR (10')
 - PROPOSED CONTOUR (2')
 - MICRO-BRETENTION (M-B)
 - RIPRAP
 - STORM DRAIN PIPE
 - STORM DRAIN INLET
 - STORM DRAIN END SECTION
 - SPECIMEN TREE
 - PROPOSED LANDSCAPING
 - BEYOND 45' BGE
 - RED ZONE
 - FOREST CONSERVATION EASEMENT
 - PLAT NO. 26248

LANDSCAPING PLAN



OWNER
 JENNIFER DASTO
 8840 GUILFORD ROAD
 CLARKSVILLE, MD 21029

DEVELOPER
 TPE MD H093, LLC
 3820 S. DEHLIA STREET
 DENVER, CO 80237
 PHONE: 970-379-3937

| NO. | REVISION | DATE |
|-----|----------|------|
| | | |

SITE DEVELOPMENT PLAN
LANDSCAPING PLAN
GUILFORD SOLAR
 TPE MD H093, LLC
 11911 HALL SHOP ROAD, CLARKSVILLE, MD 21029
 DEED L-16699 F 381
 ROBERT C. COLE PROPERTY - LOT 1
 PLAT NO. 23328
 ZONED RR-DEO
 PARCEL 68
 HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
 +
TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410-461.7666 F: 410-461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE

DESIGN BY: RMV

DRAWN BY: IMH

CHECKED BY: RMV

DATE: FEBRUARY 2023

SCALE: AS SHOWN

W.O. NO.: 45912

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. 11918, EXPIRATION DATE 09-27-2024

STATE OF MARYLAND
 ROBERT H. VOGEL
 PE No. 16193
 FEBRUARY 17, 2023
 PROFESSIONAL ENGINEER

17 SHEET OF 18

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

 C. Edmondson 4/13/2023
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

 [Signature] 4/14/2023
 CHIEF, DIVISION OF PLANNING AND DEVELOPMENT

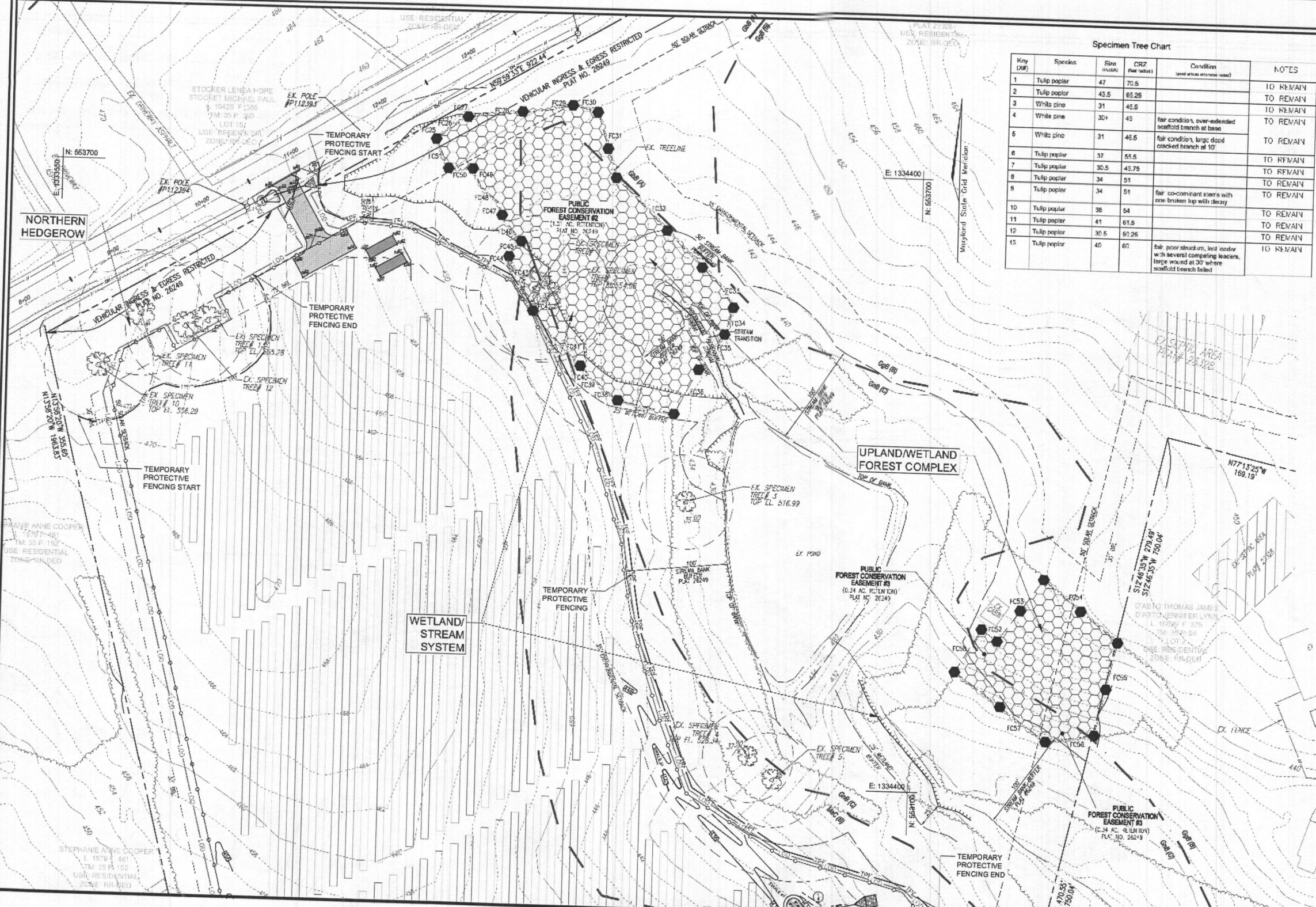
 [Signature] 4/17/2023
 DIRECTOR

DEVELOPER'S/BUILDER'S CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE (1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Designed by: Adam Best 2/24/2023

SIGNATURE OF DEVELOPER DATE



Specimen Tree Chart

| Key (X#) | Species | Size (inches) | CRZ (feet radius) | Condition (and other remarks) | NOTES |
|----------|--------------|---------------|-------------------|--|-----------|
| 1 | Tulip poplar | 47 | 70.5 | | TO REMAIN |
| 2 | Tulip poplar | 43.5 | 68.25 | | TO REMAIN |
| 3 | White pine | 31 | 46.5 | | TO REMAIN |
| 4 | White pine | 30+ | 45 | fair condition, over-extended scaffold branch at base | TO REMAIN |
| 5 | White pine | 31 | 46.5 | fair condition, large dead cracked branch at 10' | TO REMAIN |
| 6 | Tulip poplar | 37 | 55.5 | | TO REMAIN |
| 7 | Tulip poplar | 30.5 | 45.75 | | TO REMAIN |
| 8 | Tulip poplar | 34 | 51 | | TO REMAIN |
| 9 | Tulip poplar | 34 | 51 | fair 20-dominant stems with one broken top with decay | TO REMAIN |
| 10 | Tulip poplar | 38 | 54 | | TO REMAIN |
| 11 | Tulip poplar | 41 | 61.5 | | TO REMAIN |
| 12 | Tulip poplar | 30.5 | 45.75 | | TO REMAIN |
| 13 | Tulip poplar | 40 | 60 | fair poor structure, lost leader with several competing leaders, large wound at 30' where scaffold branch failed | TO REMAIN |



VICINITY MAP
SCALE: 1"=1,000'
ADC MAP: 5052 PAGE: 27 GRID: C1

FOREST CONSERVATION EASEMENT LINE TABLE

| LINE | BEARING | DISTANCE |
|---------------------------------|-------------|----------|
| FOREST CONSERVATION EASEMENT #3 | | |
| FC52 | S53°59'57"E | 19.22' |
| FC53 | N36°00'03"E | 76.03' |
| FC54 | S51°05'29"E | 95.11' |
| FC55 | S12°50'10"W | 93.70' |
| FC56 | S81°02'53"W | 48.24' |
| FC57 | N54°02'40"W | 112.76' |
| FC58 | N31°08'47"E | 49.29' |

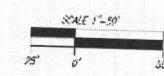
- LEGENDS:**
- PARCEL BOUNDARY
 - HIGH-CR-100
 - ADJACENT BOUNDARY
 - 30' SOLAR SETBACK
 - BUILDING RESTRICTION LINE
 - EXISTING FENCE
 - STREAM BUFFER
 - 5' STREAM CENTERLINE
 - EXISTING CONTOUR (10')
 - EXISTING CONTOUR (2')
 - SOILS BOUNDARY
 - WETLAND
 - WETLAND BUFFER
 - EXISTING TRAILLINE
 - SLOPES (15%-24.9%)
 - EQUIPMENT PAD
 - PROPOSED FENCE
 - DUCT BANK
 - PROPOSED CONTOUR (10')
 - PROPOSED CONTOUR (2')
 - MICRO-BORETENTION (4-6')
 - SPECIMEN TREE
 - FOREST CONSERVATION EASEMENT
 - FOREST CONSERVATION AREA SIGN
 - LIMIT OF DISTURBED AREA
 - TEMPORARY PROTECTIVE FENCING

OWNER
JENNIFER DASTO
8840 GUILFORD ROAD
CLARKSVILLE, MD 21029

DEVELOPER
TPE MD H093, LLC
3820 S. DEHLA STREET
DENVER, CO 80237
PHONE: 970-379-3937

MATCHLINE - SEE SHEET 16

FOREST CONSERVATION PLAN
SCALE: 1"=50'



FOREST CONSERVATION EASEMENT LINE TABLE

| LINE | BEARING | DISTANCE |
|---------------------------------|-------------|----------|
| FOREST CONSERVATION EASEMENT #2 | | |
| FC25 | N51°25'25"E | 6.44' |
| FC26 | N54°27'43"E | 22.66' |
| FC27 | N62°38'33"E | 8.56' |
| FC28 | N83°07'31"E | 83.29' |
| FC29 | N76°28'05"E | 21.01' |
| FC30 | S76°05'48"E | 25.45' |
| FC31 | S17°27'06"E | 66.30' |
| FC32 | S45°14'50"E | 149.35' |
| FC33 | S32°52'19"E | 22.84' |
| FC34 | S16°49'17"W | 27.51' |
| FC35 | S39°38'39"W | 27.83' |
| FC36 | S27°47'01"W | 65.37' |

FOREST CONSERVATION EASEMENT LINE TABLE

| LINE | BEARING | DISTANCE |
|---------------------------------|-------------|----------|
| FOREST CONSERVATION EASEMENT #2 | | |
| FC37 | N78°00'34"W | 56.70' |
| FC38 | N49°44'38"W | 28.41' |
| FC39 | N65°50'15"W | 3.14' |
| FC40 | N44°39'25"W | 9.82' |
| FC41 | N44°39'25"W | 59.30' |
| FC42 | N36°56'12"W | 50.16' |
| FC43 | N19°41'29"W | 23.65' |
| FC44 | N03°07'15"E | 7.17' |
| FC45 | N38°00'08"E | 19.25' |
| FC46 | N40°48'54"W | 28.60' |
| FC47 | N16°11'21"W | 15.88' |
| FC48 | N50°02'33"W | 23.75' |
| FC49 | N25°16'40"W | 19.58' |
| FC50 | S88°49'51"W | 24.11' |
| FC51 | N24°02'53"W | 31.37' |

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chad Edmondson 4/13/2023
CHIEF, DEVELOPMENT/ENGINEERING DIVISION

[Signature] 4/14/2023
CHIEF, DIVISION OF PLANNING AND DEVELOPMENT

[Signature] 4/17/2023
DIRECTOR

J. Brody McAllister
ISA Certified Arborist
and
Certified Tree Risk Assessor
MD DNR FCA, Code Ref: Profec-070

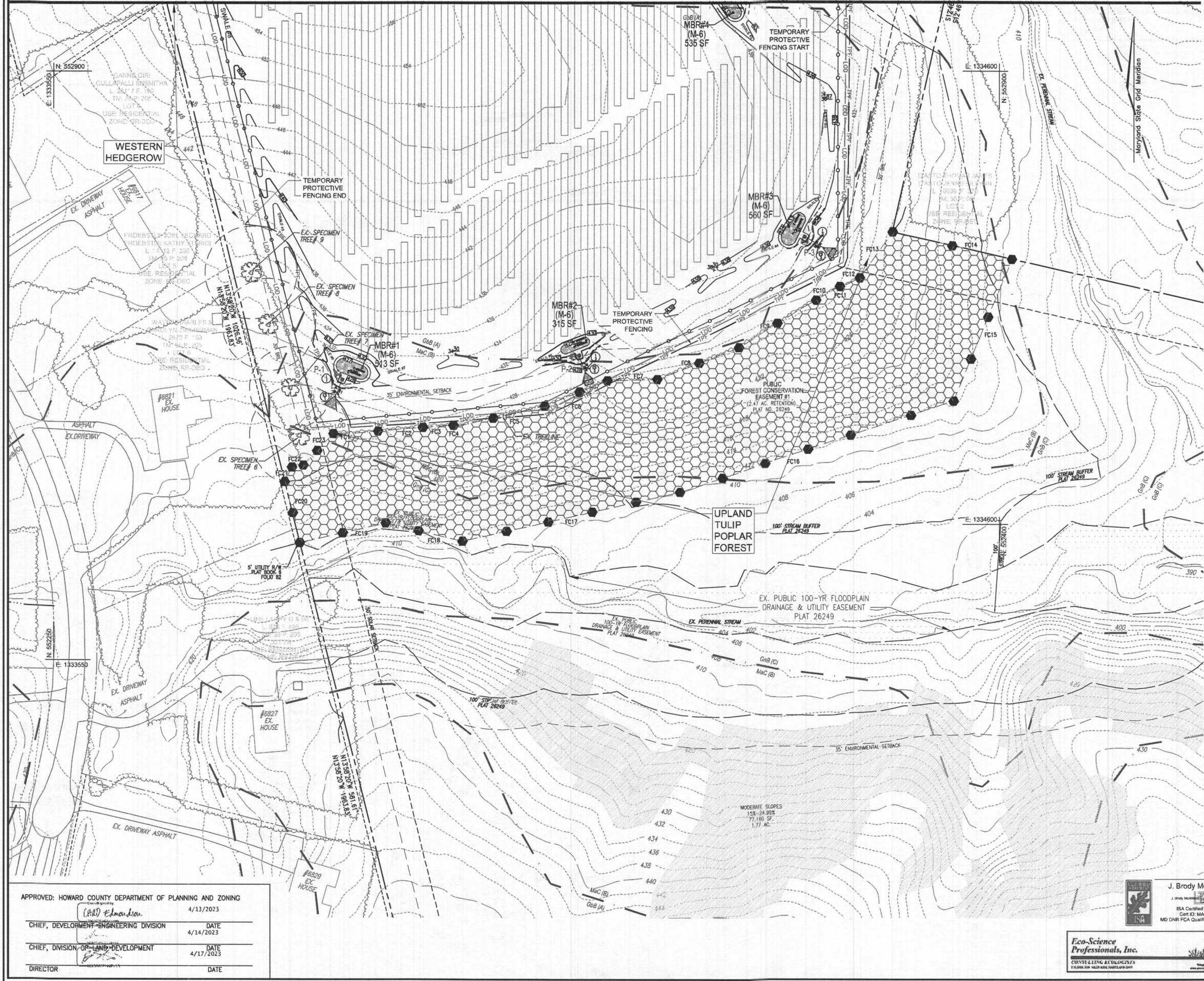
Eco-Science Professionals, Inc.
CONSULTING ECOLOGISTS



PROFESSIONAL CERTIFICATE

DESIGN BY: R.V. R.H.V.
DRAWN BY: R.H.V.
CHECKED BY: R.H.V.
DATE: FEBRUARY 2023
SCALE: AS SHOWN
W.D. NO.: 45812

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16193. EXPIRES 12/31/2024.



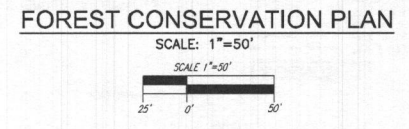
FOREST CONSERVATION EASEMENT LINE TABLE

| LINE | BEARING | DISTANCE |
|------|-------------|----------|
| FC1 | N89°20'56"E | 24.90' |
| FC2 | N84°49'49"E | 59.65' |
| FC3 | N85°43'04"E | 48.93' |
| FC4 | S83°10'35"E | 6.40' |
| FC5 | N76°47'56"E | 97.40' |
| FC6 | N68°14'24"E | 75.00' |
| FC7 | N88°29'32"E | 55.63' |
| FC8 | N68°40'41"E | 97.39' |
| FC9 | N58°38'54"E | 81.58' |
| FC10 | N59°54'58"E | 49.04' |
| FC11 | N78°13'56"E | 7.17' |
| FC12 | N62°33'34"E | 17.15' |
| FC13 | N35°44'09"E | 62.27' |
| FC14 | S77°19'26"E | 135.86' |
| FC15 | S22°31'16"W | 169.17' |
| FC16 | S71°41'08"W | 320.29' |
| FC17 | S77°15'17"W | 247.62' |
| FC18 | N76°51'09"W | 87.52' |
| FC19 | S77°08'47"W | 97.50' |
| FC20 | N13°58'20"W | 69.74' |
| FC21 | N26°49'58"E | 17.90' |
| FC22 | N80°13'42"E | 12.76' |
| FC23 | N43°40'24"E | 48.28' |

- LEGENDS:**
- PARCEL BOUNDARY
 - RIGHT-OF-WAY
 - ADJACENT BOUNDARY
 - 50' SOLAR SETBACK
 - BUILDING RESTRICTION LINE
 - EXISTING PAVEMENT
 - EX. PUBLIC 100-YR FLOODPLAIN PLAT NO. 26249
 - STREAM BUFFER
 - STREAM CENTERLINE
 - EXISTING CONTOUR (10')
 - EXISTING CONTOUR (2')
 - SOILS BOUNDARY
 - WETLAND
 - WETLAND BUFFER
 - EXISTING TREELINE
 - MODERATE SLOPES (15%-24.9%)
 - EQUIPMENT PAD
 - PROPOSED FENCE
 - PROPOSED CONTOUR (10')
 - PROPOSED CONTOUR (2')
 - MICRO-BIORETENTION (N-6)
 - RR/PAV
 - STORM DRAIN PIPE
 - STORM DRAIN INLET
 - STORM DRAIN END SECTION
 - SPECIMEN TREE
 - FOREST CONSERVATION EASEMENT PLAT NO. 26249
 - FOREST CONSERVATION AREA SIGN
 - LOD LIMIT OF DISTURBED AREA
 - TPF TEMPORARY PROTECTIVE FENCING

Specimen Tree Chart

| Key # | Species | DBH (in.) | CH2 (in.) | Comments | NOTES |
|-------|--------------|-----------|-----------|---|-----------|
| 1 | Tulip poplar | 47 | 41.5 | | TO REMAIN |
| 2 | Tulip poplar | 48.5 | 63.25 | | TO REMAIN |
| 3 | White pine | 31 | 49.5 | | TO REMAIN |
| 4 | White pine | 30 | 45 | fair condition, over-extended scaffold branch at base | TO REMAIN |
| 5 | White pine | 31 | 49.5 | fair condition, large dead detached branch at 10' | TO REMAIN |
| 6 | Tulip poplar | 37 | 63.5 | | TO REMAIN |
| 7 | Tulip poplar | 30.5 | 45.75 | | TO REMAIN |
| 8 | Tulip poplar | 34 | 61 | | TO REMAIN |
| 9 | Tulip poplar | 34 | 61 | fair condition, slight hollow base, trunk decay | TO REMAIN |
| 10 | Tulip poplar | 35 | 51 | | TO REMAIN |
| 11 | Tulip poplar | 41 | 61.5 | | TO REMAIN |
| 12 | Tulip poplar | 30.5 | 63.25 | | TO REMAIN |
| 13 | Tulip poplar | 40 | 60 | fair poor structure, lost leader with several top-pole leaders, lower part of tree is well established; basal | TO REMAIN |



OWNER
JENNIFER DASTO
8840 GUILFORD ROAD
CLARKSVILLE, MD 21029

DEVELOPER
TPE MD H093, LLC
3820 S. DEHLIA STREET
DENVER, CO 80237
PHONE: 970-379-3937

| NO. | REVISION | DATE |
|-----|----------|------|
| | | |

SITE DEVELOPMENT PLAN
FOREST CONSERVATION PLAN
GUILFORD SOLAR
TPE MD H093, LLC
11911 HALL SHOP ROAD, CLARKSVILLE, MD 21029
DEED L. 16699 F. 381
TAX MAP 35 BLOCK 20 5TH ELECTION DISTRICT
ROBERT C. COLE PROPERTY - LOT 1
PLAT NO. 23328
ZONED RR-DEO
PARCEL 68
HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE
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. 16183
EXPIRES DATE: 04-17-2024

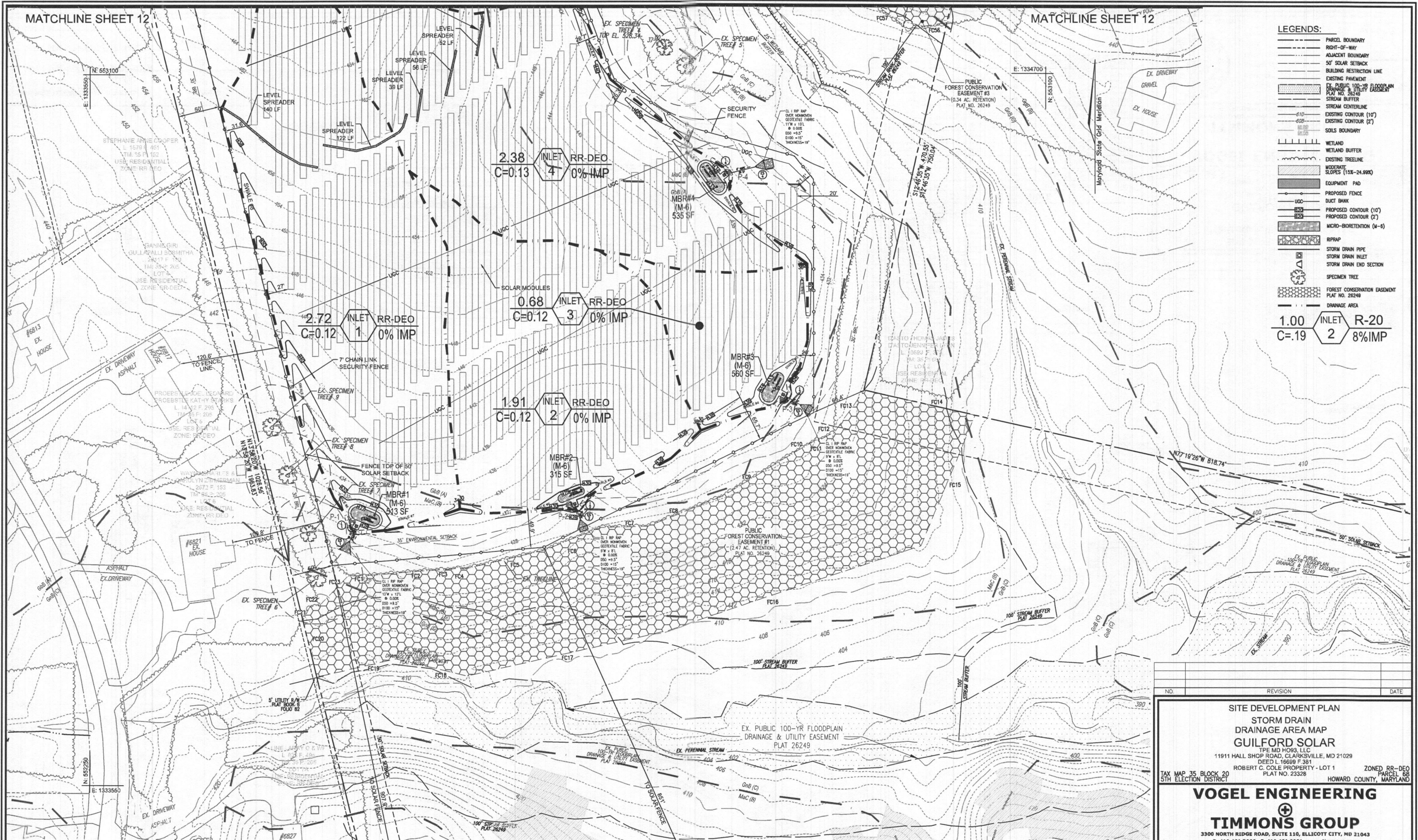
DESIGN BY: RHY
DRAWN BY: IMH
CHECKED BY: RHY
DATE: FEBRUARY 2023
SCALE: AS SHOWN
W.D. NO.: 45912

16 SHEET OF 18

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
4/13/2023
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE 4/14/2023
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE 4/17/2023
DIRECTOR
DATE

J. Brody McAllister
Professional Engineer
ISA Certified Advisor
Cert ID: MA5471A
MD DNR FCA Qualified Professional

Eco-Science Professionals, Inc.
CONSULTING & LOGISTICS
15000 WOODBINE ROAD, SUITE 200
CLARKSVILLE, MD 21029
www.ecosciences.com



- LEGENDS:**
- PARCEL BOUNDARY
 - RIGHT-OF-WAY
 - ADJACENT BOUNDARY
 - 50' SOLAR SETBACK
 - BUILDING RESTRICTION LINE
 - EXISTING PINCHPOINT
 - EX. PUBLIC 100-YR FLOODPLAIN DRAINAGE & UTILITY EASEMENT PLAT NO. 26249
 - STREAM BUFFER
 - STREAM CENTERLINE
 - EXISTING CONTOUR (10')
 - EXISTING CONTOUR (2')
 - SOILS BOUNDARY
 - WETLAND
 - WETLAND BUFFER
 - EXISTING TREELINE
 - MODERATE SLOPES (15% - 24.99%)
 - EQUIPMENT PAD
 - PROPOSED FENCE
 - UCC
 - DUCT BANK
 - PROPOSED CONTOUR (10')
 - PROPOSED CONTOUR (2')
 - MICRO-BIORETENTION (M-6)
 - RIPRAP
 - STORM DRAIN PIPE
 - STORM DRAIN INLET
 - STORM DRAIN END SECTION
 - SPECIMEN TREE
 - FOREST CONSERVATION EASEMENT PLAT NO. 26249
 - DRAINAGE AREA
- 1.00 INLET R-20
C=0.19 2 8%IMP

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 4/13/2023
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE 4/14/2023
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE 4/17/2023
 DIRECTOR
 DATE

STORM DRAIN DRAINAGE AREA MAP
 SCALE: 1"=50'
 SCALE 1"=50'
 25' 0' 50'

OWNER
 JENNIFER DASTO
 6640 GUILFORD ROAD
 CLARKSVILLE, MD 21029
DEVELOPER
 TPE MD H083, LLC
 3820 S. DEHLIA STREET
 DENVER, CO 80237
 PHONE: 970-379-3937

| NO. | REVISION | DATE |
|-----|----------|------|
| | | |

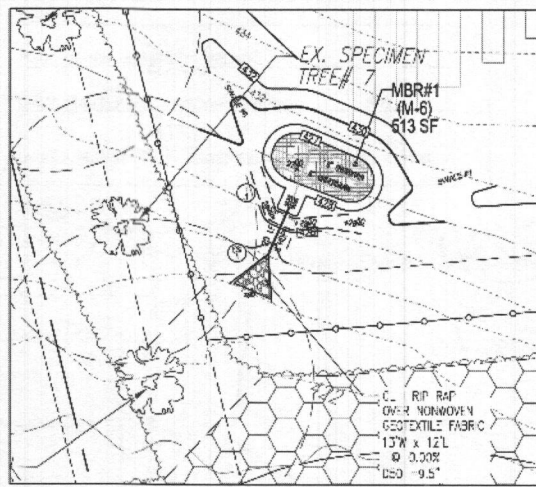
SITE DEVELOPMENT PLAN
STORM DRAIN DRAINAGE AREA MAP
GUILFORD SOLAR
 TPE MD H083, LLC
 11911 HALL SHOP ROAD, CLARKSVILLE, MD 21029
 DEED L 16699 F 381
 ROBERT C. COLE PROPERTY - LOT 1
 PLAT NO. 23328
 ZONED RR-DEO
 HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
 +
TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
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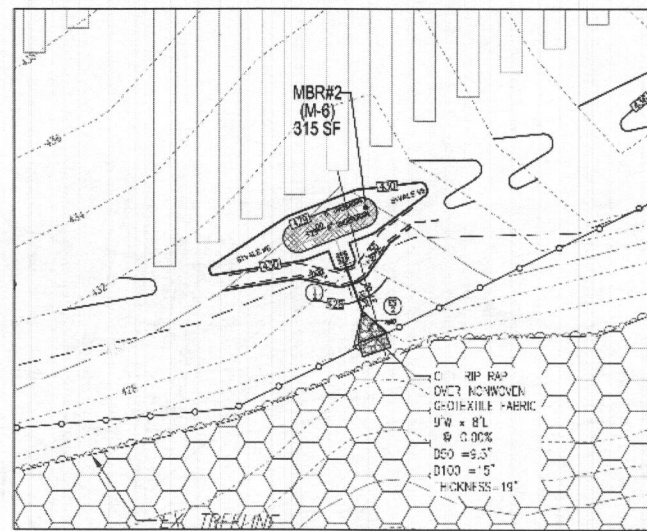
PROFESSIONAL CERTIFICATE
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. MY LICENSE NO. IS 1711818. EXPIRATION DATE: 08-27-2024

DESIGN BY: R-V
 DRAWN BY: IMH
 CHECKED BY: R-V
 DATE: FEBRUARY 2023
 SCALE: AS SHOWN
 W.D. NO.: 45912

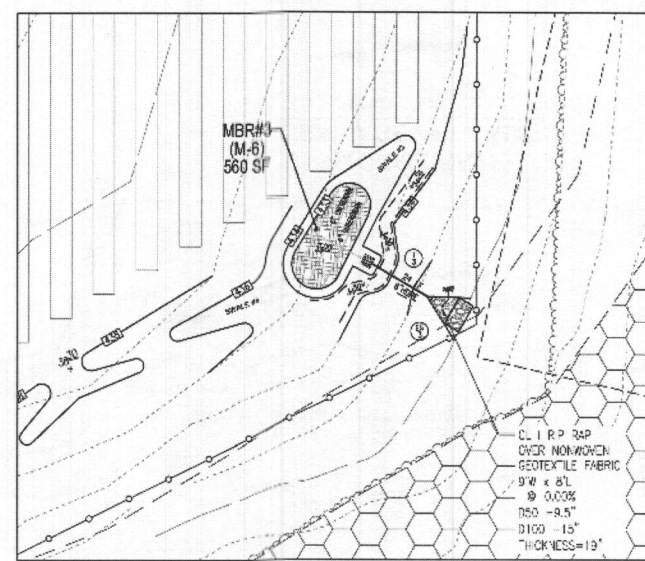
13 SHEET OF 18



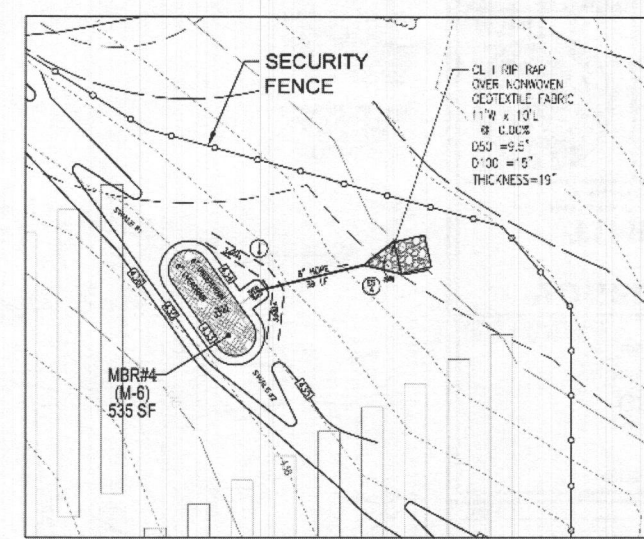
MBR-1 PLAN VIEW
SCALE: 1" = 30'



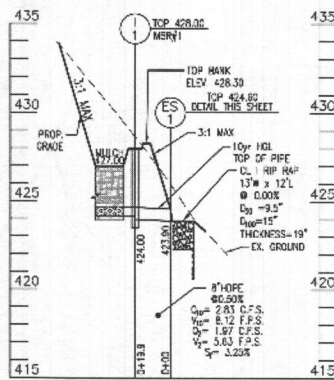
MBR-2 PLAN VIEW
SCALE: 1" = 30'



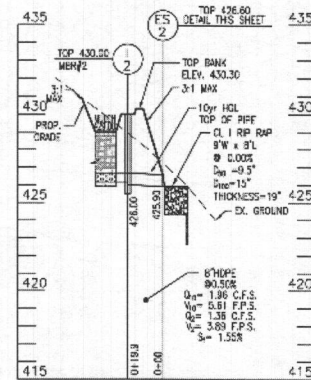
MBR-3 PLAN VIEW
SCALE: 1" = 30'



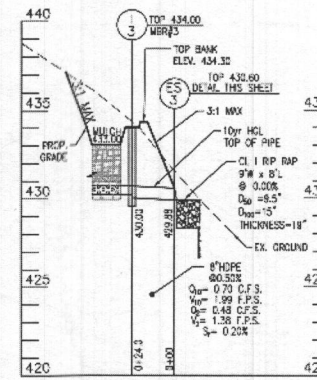
MBR-4 PLAN VIEW
SCALE: 1" = 30'



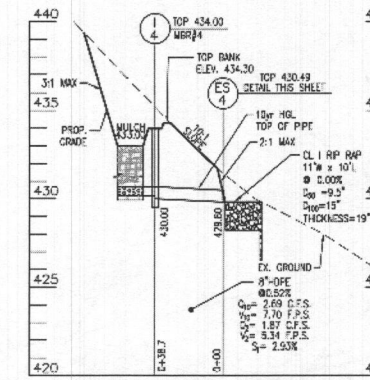
STORM DRAIN PROFILE
SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=5'



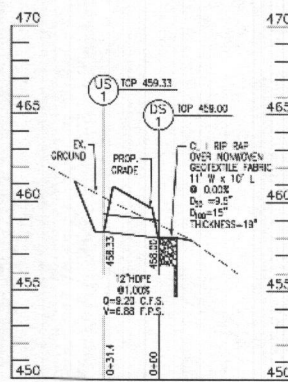
STORM DRAIN PROFILE
SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=5'



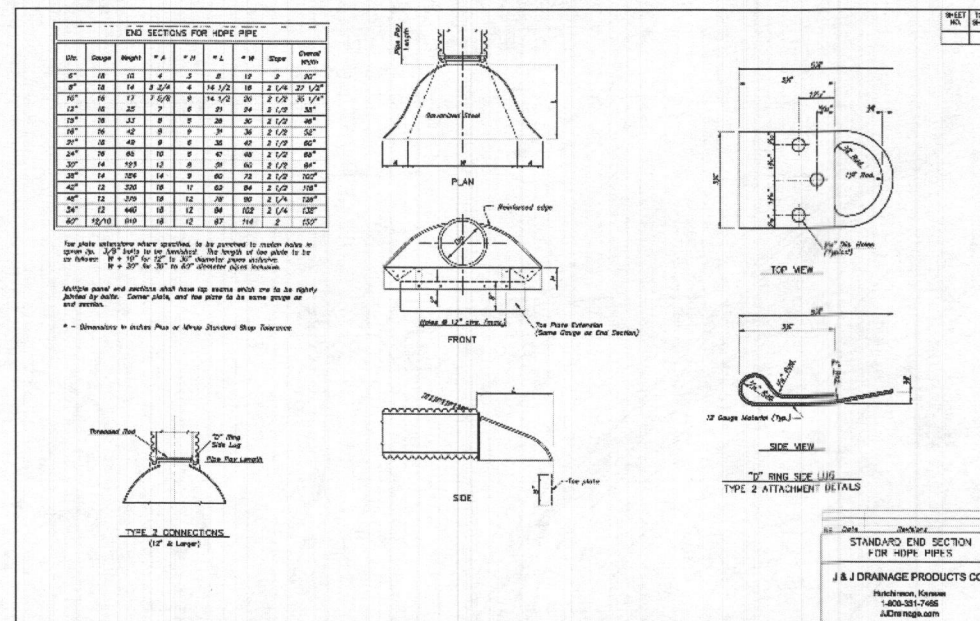
STORM DRAIN PROFILE
SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=5'



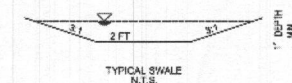
STORM DRAIN PROFILE
SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=5'



STORM DRAIN PROFILE
SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=5'



| ID | OD | VELOCITY | DEPTH | SLOPE |
|----------|------|----------|-------|-------|
| SWALE #1 | 1.85 | 2.81 | 0.24 | 0.040 |
| SWALE #2 | 0.20 | 1.22 | 0.08 | 0.024 |
| SWALE #3 | 0.38 | 1.60 | 0.10 | 0.029 |
| SWALE #4 | 0.12 | 1.30 | 0.04 | 0.051 |
| SWALE #5 | 0.20 | 1.64 | 0.06 | 0.060 |
| SWALE #6 | 0.28 | 1.74 | 0.07 | 0.050 |
| SWALE #7 | 0.44 | 2.22 | 0.09 | 0.066 |
| SWALE #8 | 2.29 | 3.42 | 0.24 | 0.056 |



| SIZE | PUBLIC/PRIVATE | MATERIAL | LENGTH |
|------|----------------|----------|--------|
| 8" | PRIVATE | HDPE | 103 |
| 12" | PRIVATE | HDPE | 34 |

| STR# | TYPE | INV. IN | INV. OUT | TOPELEV. | DETAIL | LOCATION | REMARKS |
|------|----------|---------|----------|----------|------------|----------------------------------|-------------|
| I-1 | S BLET | --- | 426.00 | 426.00 | D-4.24 | N: 552,560.01 E: 1,333,870.58 | (1) PRIVATE |
| I-2 | S BLET | --- | 426.00 | 430.00 | D-4.24 | N: 552,567.17 E: 1,334,133.09 | (1) PRIVATE |
| I-3 | S BLET | --- | 432.00 | 434.00 | D-4.24 | N: 552,717.59 E: 1,334,282.56 | (1) PRIVATE |
| I-4 | S BLET | --- | 430.00 | 434.00 | D-4.24 | N: 552,879.30 E: 1,334,213.19 | (1) PRIVATE |
| ES-1 | 8" HDPE | --- | 423.80 | 424.50 | THIS SHEET | N: 552,541.85 E: 1,333,882.56 | (2) PRIVATE |
| ES-2 | 8" HDPE | --- | 425.80 | 426.00 | THIS SHEET | N: 552,705.49 E: 1,334,424.54 | (2) PRIVATE |
| ES-3 | 8" HDPE | --- | 423.88 | 430.50 | THIS SHEET | N: 552,705.49 E: 1,334,250.65 | (2) PRIVATE |
| ES-4 | 8" HDPE | --- | 423.80 | 430.49 | THIS SHEET | N: 552,869.03 E: 1,334,250.65 | (2) PRIVATE |
| US-1 | 12" HDPE | --- | 458.33 | 458.33 | THIS SHEET | N: 552,668.64 E: 1,333,759.64 | (2) PRIVATE |
| DS-1 | 12" HDPE | --- | 458.00 | 458.00 | THIS SHEET | N: 553,078.10 E: 1,333,791.35 | (2) PRIVATE |

(1) COORDINATE FOR PROPOSED STRUCTURE = CENTERLINE OF STRUCTURE
(2) COORDINATE FOR END SECTION = CENTERLINE OF PPE @ DOWNSTREAM POINT



OWNER: JENNIFER DASTO, 6940 GUILFORD ROAD, CLARKSVILLE, MD 21029
DEVELOPER: TPE MD HO93, LLC, 3820 S. DE-LA STREET, DENVER, CO 80217, PHONE: 970-379-5937

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION: [Signature] 4/13/2023
CHIEF, DIVISION OF LAND DEVELOPMENT: [Signature] 4/17/2023
DIRECTOR: [Signature] DATE

NO. REVISION DATE

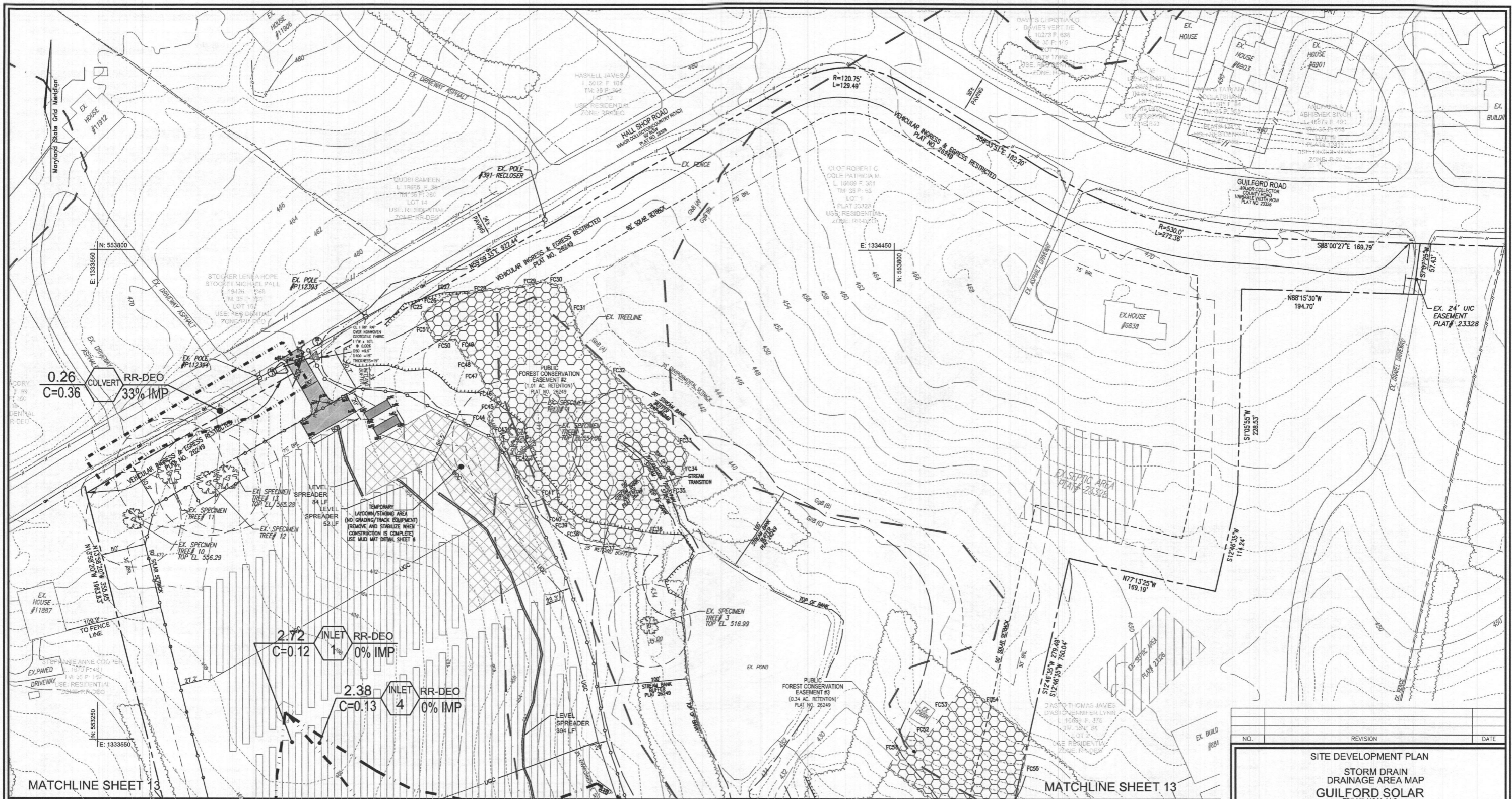
SITE DEVELOPMENT PLAN
STORM DRAIN PROFILES & DETAILS

GUILFORD SOLAR
TPE MD HO93, LLC
11911 HALL SHOP ROAD, CLARKSVILLE, MD 21029
DEED L: 10699 F: 381
ROBERT C. COLE PROPERTY - LOT 1
PLAT NO. 23328
ZONED RR-DEO
PARCEL 55
HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8951 www.timmons.com

PROFESSIONAL CERTIFICATE
DESIGN BY: R.V. [Signature]
DRAWN BY: R.H. [Signature]
CHECKED BY: R.V. [Signature]
DATE: FEBRUARY 2023
SCALE: AS SHOWN
W.D. NO.: 45912

14 SHEET OF 18

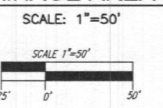


MATCHLINE SHEET 13

MATCHLINE SHEET 13

- LEGENDS:**
- PARCEL BOUNDARY
 - RIGHT-OF-WAY
 - ADJACENT BOUNDARY
 - 50' SOLAR SETBACK
 - BUILDING RESTRICTION LINE
 - EXISTING PAVEMENT
 - STREAM BUFFER
 - STREAM CENTERLINE
 - EXISTING CONTOUR (10')
 - EXISTING CONTOUR (2')
 - SOILS BOUNDARY
 - WETLAND
 - WETLAND BUFFER
 - EXISTING TREELINE
 - TEMPORARY LAYDOWN / STAGING AREA
 - EQUIPMENT PAD
 - PROPOSED FENCE
 - UCC
 - DUCT BANK
 - PROPOSED CONTOUR (10')
 - PROPOSED CONTOUR (2')
 - SPECIMEN TREE
 - FOREST CONSERVATION EASEMENT PLAT NO. 26249
 - DRAINAGE AREA

STORM DRAIN DRAINAGE AREA MAP



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 4/13/2023
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE 4/14/2023
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE 4/17/2023
 DIRECTOR
 DATE

OWNER
 JENNIFER DASTO
 6840 GUILFORD ROAD
 CLARKSVILLE, MD 21029

DEVELOPER
 TPE MD H093, LLC
 3820 S. DEHLIA STREET
 DENVER, CO 80237
 PHONE: 970-379-3937

| NO. | REVISION | DATE |
|-----|----------|------|
| | | |

SITE DEVELOPMENT PLAN
STORM DRAIN DRAINAGE AREA MAP
GUILFORD SOLAR
 TPE MD H093, LLC
 11911 HALL SHOP ROAD, CLARKSVILLE, MD 21029
 DEED L 16699 F 381
 ROBERT C. COLE PROPERTY - LOT 1
 PLAT NO. 23328
 ZONED RR-DEO
 PARCEL 58
 HOWARD COUNTY, MARYLAND

TAX MAP 35 BLOCK 20
5TH ELECTION DISTRICT

VOGEL ENGINEERING
 TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE
 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. 16193 EXPIRES DATE 08-31-2024

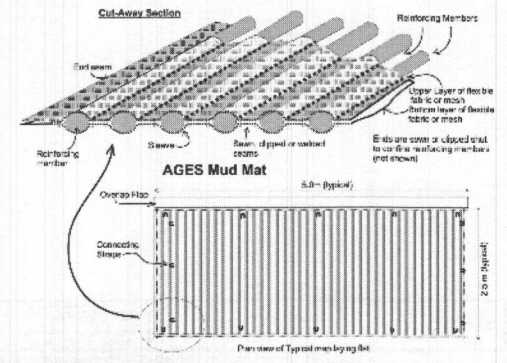
DESIGN BY: RHV
 DRAWN BY: IMH
 CHECKED BY: RHV
 DATE: FEBRUARY 2023
 SCALE: AS SHOWN
 W.O. NO.: 459.12

12 SHEET OF 18



LEGENDS:

- Parcel Boundary
- Right-of-Way
- Adjacent Boundary
- 50' Solar Setback
- Building Restriction Line
- Existing Pavement
- Stream Buffer
- Stream Centerline
- Existing Contour (10')
- Existing Contour (2')
- Soils Boundary
- Wetland
- Wetland Buffer
- Existing Tree Line
- Erodeable Soils
- Temporary Laydown / Staging Area
- Equipment Pad
- Proposed Fence
- Duct Bank
- Proposed Contour (10')
- Proposed Contour (2')
- Limit of Disturbed Area
- Super Silt Fence
- Specimen Tree
- Forest Conservation Easement
- Tree Protection Fence
- Stabilized Construction Entrance

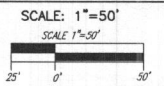


AGES, a Division of Bruce White Canada Company
 10000 Highway 101, Unit 101, Brampton, ON L6Y 4R2
 Phone: 905-874-3333 Fax: 905-874-3338
 www.agesmat.com

MATCHLINE SHEET 7

MATCHLINE SHEET 7

SOILS MAP, GRADING, EROSION AND SEDIMENT CONTROL PLAN



NOTE:
 - SILT FENCE IS TO BE REPLACED WITH SUPER SILT FENCE AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.
 - SILT FENCE SHALL BE CURLED UPHILL. NO MORE THAN 35 FEET APART
 - DOUBLE ROWS OF SUPER SILT FENCE SHALL BE INSTALLED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.

NOTE:
 1. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN DITCHES AFTER CONSTRUCTION OF SOLAR ARRAY.
 2. CONTRACTOR SHALL MAINTAIN THAT RUNOFF IS DIRECTED TO THE MICRO-SIORRETENTION FACILITIES.

NOTE:
 1. LIMIT OF DISTURBANCE, SUPER SILT FENCE AND TREE PROTECTION FENCE ARE OFFSET ON PLAN FOR CLARITY.
 2. CONTRACTOR TO INSTALL LIMIT OF DISTURBANCE OFFSET 0-4' FROM SOLAR FENCE AND PROPOSED DRIVEWAY PAVEMENT. SUPER SILT FENCE TO BE OFFSET 1-2' FROM THE LIMIT OF DISTURBANCE. TREE PROTECTION FENCE TO BE OFFSET 0-0.0-5' FROM LIMIT OF DISTURBANCE.
 3. CONTRACTOR SHALL NOT DISTURB WETLANDS, STREAMS THEIR BUFFERS, FOREST OR THE EXISTING POND.

NOTE:
 1. NO GRADING SHALL BE PERFORMED IN THE TEMPORARY LAYDOWN/STAGING AREA.
 2. NO HEAVY OR TRACK EQUIPMENT SHALL BE LOCATED WITHIN THE TEMPORARY LAYDOWN/STAGING AREA. CONTRACTOR SHALL USE MUD MATS OR EQUIVALENT MATERIAL TO REDUCE DISTURBANCE WITHIN THE TEMPORARY LAYDOWN/STAGING AREA.
 3. CONTRACTOR SHALL COMPLY WITH 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL DETAIL B-4-7 HEAVY USE AREA PROTECTION

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Chief, Division of Planning and Development
 Director

OWNER/DEVELOPER CERTIFICATION:
 I/WE CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN INCLUDING INSPECTING AND MAINTAINING CONTROLS AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PROBLEMS TO REMAINING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR EROSION AND SEDIMENT CONTROL BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.
 Adam Bea | 2/24/2023

DESIGNER CERTIFICATION:
 I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS AND STANDARDS THAT REPRESENTS A PRACTICAL AND REASONABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 Robert H. Vogel | 3/17/2023

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Robert H. Vogel | 4/13/2023

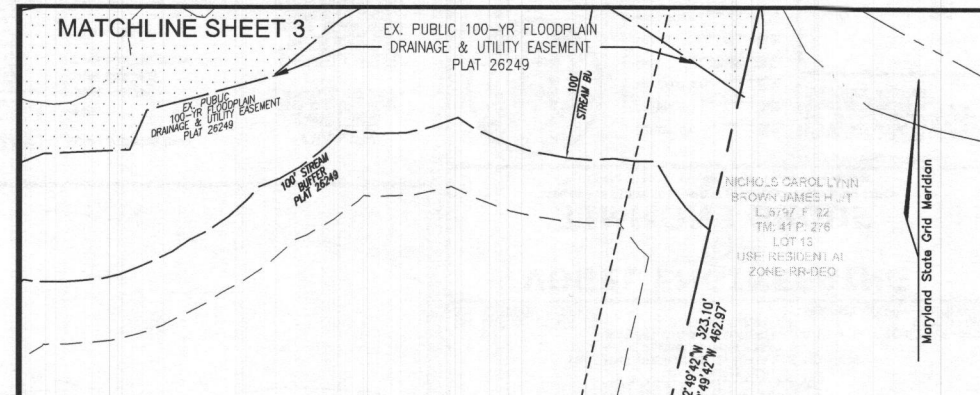
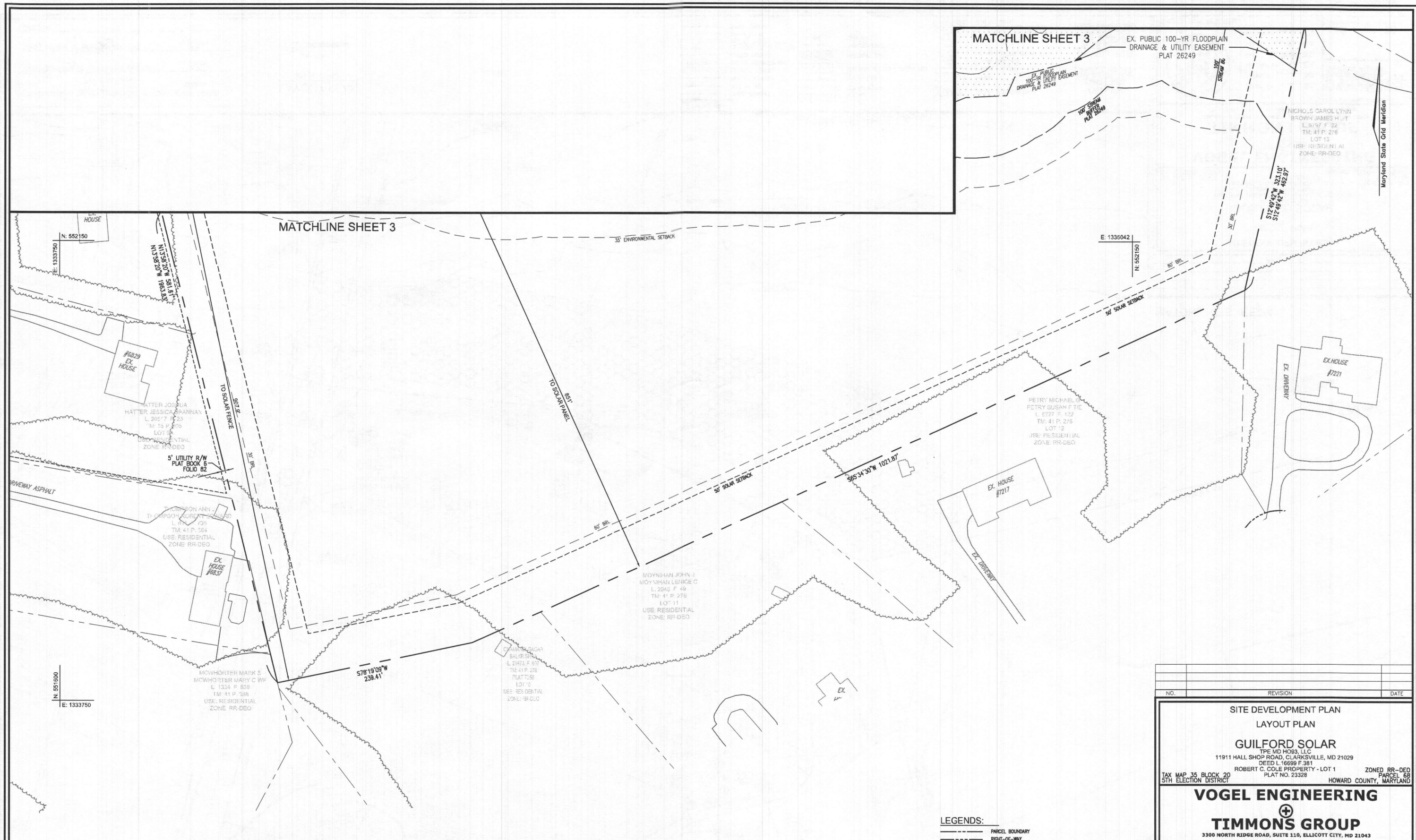
OWNER
 JENNIFER DASTO
 6840 GUILFORD ROAD
 CLARKSVILLE, MD 21029

DEVELOPER
 TPE MD H093, LLC
 3820 S. DEHLIA STREET
 DENVER, CO 80237
 PHONE: 970-378-3937

VOGEL ENGINEERING
 TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

DESIGN BY: RHY
 DRAWN BY: IMH
 CHECKED BY: RHY
 DATE: FEBRUARY 2023
 SCALE: AS SHOWN
 W.O. NO.: 45912

6 SHEET OF 18





APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 4/13/2023
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE 4/14/2023
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE 4/17/2023
 DIRECTOR DATE

LAYOUT PLAN
 SCALE: 1"=50'
 SCALE 1"=50'
 25' 0' 50'

- LEGENDS:**
- PARCEL BOUNDARY
 - RIGHT-OF-WAY
 - ADJACENT BOUNDARY
 - 50' SOLAR SETBACK
 - BUILDING RESTRICTION LINE
 - EXISTING PAVEMENT
 - EX. PUBLIC 100-YR FLOODPLAIN DRAINAGE & UTILITY EASEMENT PLAT NO. 26249
 - STREAM BUFFER
 - STREAM CENTERLINE
 - EXISTING TREELINE

OWNER
 JENNIFER DASTO
 6840 GUILFORD ROAD
 CLARKSVILLE, MD 21029

DEVELOPER
 TPE MD H093, LLC
 3820 S. DEHLIA STREET
 DENVER, CO 80237
 PHONE: 970-379-3937

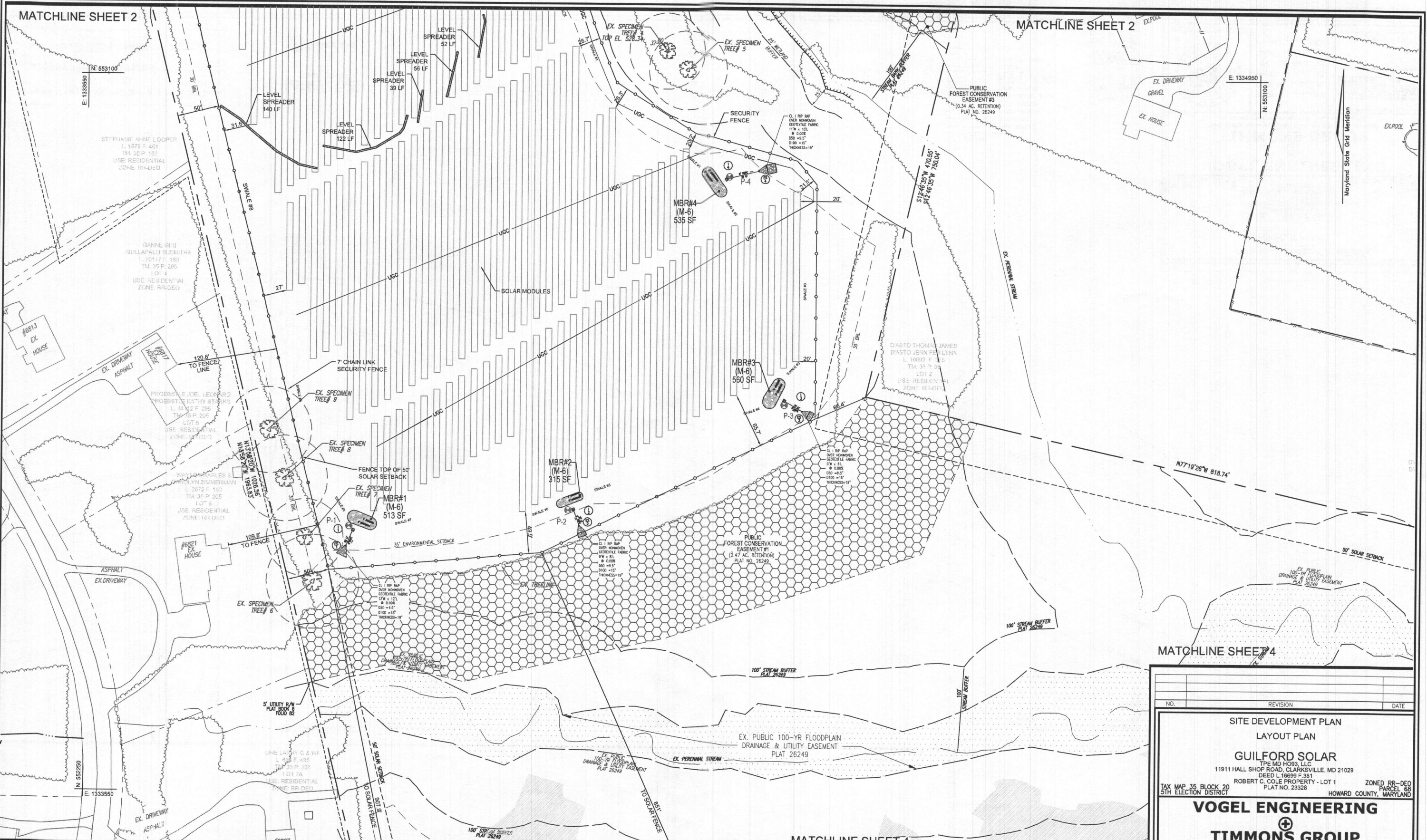
| NO. | REVISION | DATE |
|---|---------------|---|
| SITE DEVELOPMENT PLAN LAYOUT PLAN GUILFORD SOLAR TPE MD H093, LLC 11911 HALL SHOP ROAD, CLARKSVILLE, MD 21029 DEED L: 16699 F: 381 ROBERT C. COLE PROPERTY - LOT 1 ZONED RR-DEO PLAT NO. 23328 PARCEL 68 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND | | |
| VOGEL ENGINEERING  TIMMONS GROUP 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21104 P: 410.461.7666 F: 410.461.8961 www.timmons.com | | |
| DESIGN BY: | RHV | PROFESSIONAL CERTIFICATE |
| DRAWN BY: | IMH | I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16193, EXPIRES ON 05-31-2024 |
| CHECKED BY: | RHV | |
| DATE: | FEBRUARY 2023 | |
| SCALE: | AS SHOWN | |
| W.O. NO.: | 45912 | |
|  Robert F. Vogel, PE No. 16193 | | 4 SHEET OF 18 |

MATCHLINE SHEET 2

MATCHLINE SHEET 2

MATCHLINE SHEET 4

MATCHLINE SHEET 4



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 4/13/2023
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE 4/14/2023
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE 4/17/2023
 DIRECTOR
 DATE

LAYOUT PLAN
 SCALE: 1"=50'
 SCALE 1"=50'
 25' 0' 50'

LEGENDS:

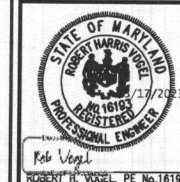
- PARCEL BOUNDARY
- RIGHT-OF-WAY
- ADJACENT BOUNDARY
- 50' SOLAR SETBACK
- BUILDING RESTRICTION LINE
- EXISTING PAVEMENT
- EX. PUBLIC 100-YR FLOODPLAIN DRAINAGE & UTILITY EASEMENT PLAT NO. 26249
- STREAM BUFFER
- STREAM CENTERLINE
- WETLAND
- WETLAND BUFFER
- EXISTING TREELINE
- TEMPORARY LAYDOWN / STAGING AREA
- EQUIPMENT PAD
- PROPOSED FENCE
- DUCT BANK
- MICRO-BORRECTION (M-6)
- RIPRAP
- STORM DRAIN PIPE
- STORM DRAIN INLET
- STORM DRAIN END SECTION
- SPECIMEN TREE
- FOREST CONSERVATION EASEMENT PLAT NO. 26249

OWNER
 JENNIFER DASTO
 6840 GUILFORD ROAD
 CLARKSVILLE, MD 21029
 DEVELOPER
 TPE MD H093, LLC
 3820 S. DENHA STREET
 DENVER, CO 80237
 PHONE: 970-379-3937

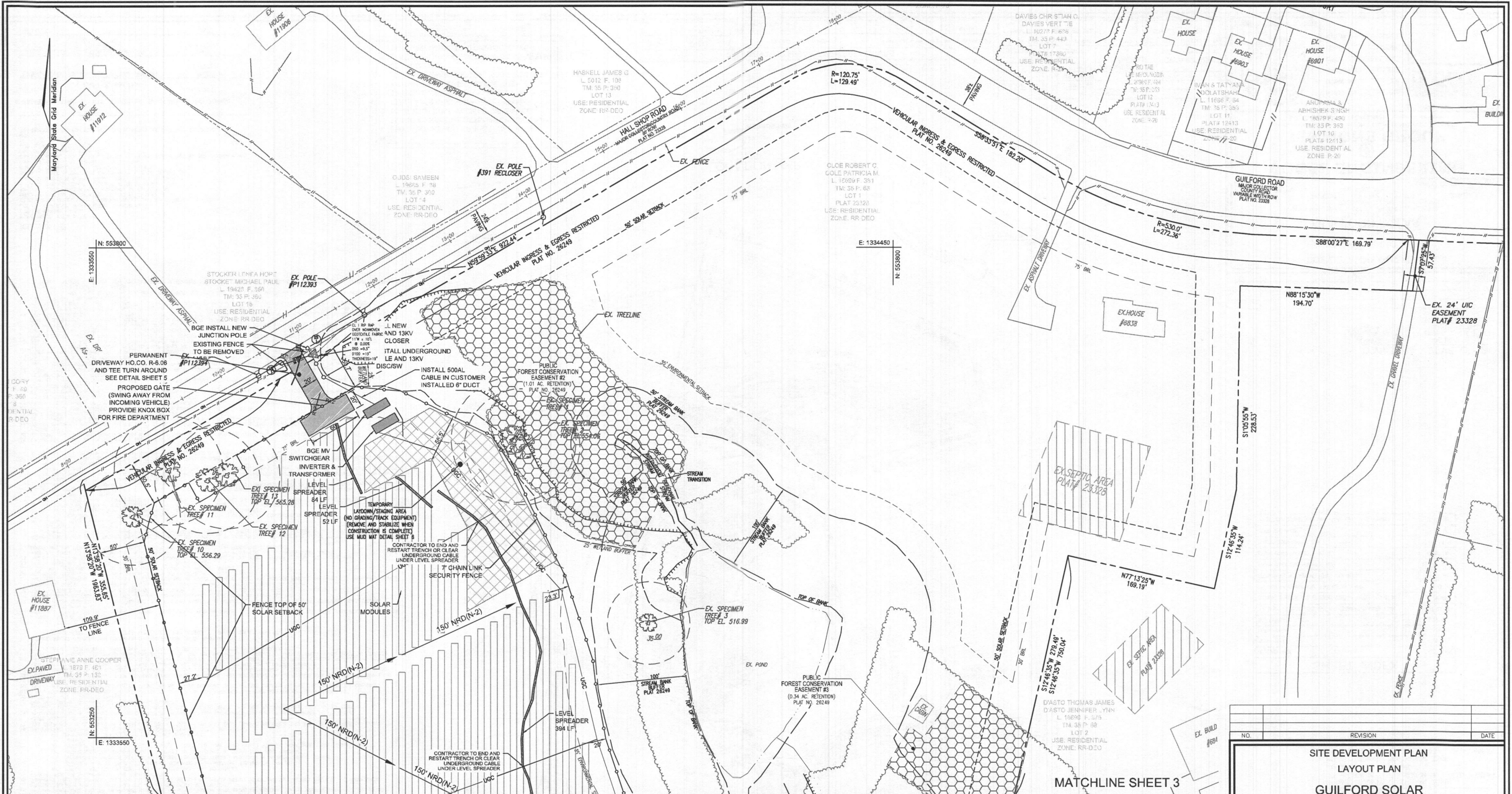
| NO. | REVISION | DATE |
|-----|----------|------|
| | | |

SITE DEVELOPMENT PLAN
 LAYOUT PLAN
 GUILFORD SOLAR
 TPE MD H093, LLC
 11911 HALL SHOP ROAD, CLARKSVILLE, MD 21029
 DEED L 16699 F 381
 ROBERT C. COLE PROPERTY - LOT 1
 PLAT NO. 23328
 ZONED RR-DEO
 PARCEL 68
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
 TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com



PROFESSIONAL CERTIFICATE
 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. 161813, EXPIRATION DATE 12-31-2023.
 DESIGN BY: RHY
 DRAWN BY: IMH
 CHECKED BY: RHY
 DATE: FEBRUARY 2023
 SCALE: AS SHOWN
 W.O. NO.: 45912
 3 SHEET OF 18



MATCHLINE SHEET 3

- LEGENDS:**
- PARCEL BOUNDARY
 - RIGHT-OF-WAY
 - ADJACENT BOUNDARY
 - 50' SOLAR SETBACK
 - BUILDING RESTRICTION LINE
 - EXISTING PAVEMENT
 - 100-YR FLOODPLAIN
 - STREAM BUFFER
 - STREAM CENTERLINE
 - WETLAND
 - WETLAND BUFFER
 - EXISTING TREELINE
 - TEMPORARY LAYDOWN / STAGING AREA
 - EQUIPMENT PAD
 - PROPOSED FENCE
 - DUCT BANK
 - SPECIMEN TREE
 - FOREST CONSERVATION EASEMENT PLAT NO. 28249

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

4/13/2023

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 4/14/2023

CHIEF, DIVISION OF LAND DEVELOPMENT DATE 4/17/2023

DIRECTOR DATE

LAYOUT PLAN

SCALE: 1"=50'

SCALE 1"=50'

SITE DEVELOPMENT PLAN
LAYOUT PLAN
GUILFORD SOLAR
TPE MD H093, LLC
11911 HALL SHOP ROAD, CLARKSVILLE, MD 21029
DEED L 16699 F 381
ROBERT C. COLE PROPERTY - LOT 1 ZONED RR-DEO PARCEL 88
PLAT NO. 23328 HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

OWNER
JENNIFER DASTO
6840 GUILFORD ROAD
CLARKSVILLE, MD 21029

DEVELOPER
TPE MD H093, LLC
3800 S. DEHLA STREET
DENVER, CO 80237
PHONE: 970-379-3937

DESIGN BY: RHY
DRAWN BY: IMH
CHECKED BY: RHY
DATE: FEBRUARY 2023
SCALE: AS SHOWN
W.O. NO.: 45912

PROFESSIONAL CERTIFICATE
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 11913 EXPIRATION DATE 12-31-2024

2 SHEET OF 18

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY STANDARDS AND SPECIFICATIONS. ALL WORK AND MATERIALS SHALL COMPLY WITH O.S.H.A. STANDARDS.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK:
 - BOE (CONSTRUCTION SERVICES) 410-637-8713
 - BOE (EMERGENCY) 410-685-0123
 - BUREAU OF UTILITIES 410-311-6800
 - COLONIAL PIPELINE CO 410-785-1390
 - MISS UTILITY 1-800-257-7777
 - STATE HIGHWAY ADMINISTRATION 1-800-531-5533
 - VERIZON 1-800-743-0033
- PROJECT BACKGROUND:
 - LOCATION: CLARKSVILLE, MD.; TAX MAP 35, BLOCK 20, PARCEL 68
 - SUBDIVISION: ROBERT C. COLE PROPERTY - LOT 1 (PLAT NO. 23248)
 - SECTION/AREA: N/A
- DPZ REFERENCES: L16699/F.381, F-14-024, BA-21-008C, ECP-22-019, PLAT NO. 28249
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
- ANY DAMAGE TO PUBLIC RIGHT-OF-WAY, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- THE SUBJECT PROPERTY IS ZONED "RR-DEO" IN ACCORDANCE WITH THE 10/6/13 ZONING REGULATIONS, AND IS SUBJECT TO THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS EFFECTIVE 10/23/03 PER COUNCIL BILL 75-2003.
- THE PROJECT BOUNDARY SHOWN HEREON IS BASED ON THE SURVEY PERFORMED BY VOGEL ENGINEERING+TIMMONS GROUP ON FEBRUARY, 2021.
- THE EXISTING TOPOGRAPHY SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEY PREPARED BY VOGEL ENGINEERING+TIMMONS GROUP, DATED AUGUST AND NOVEMBER, 2021, OFFSITE TOPOGRAPHY FROM HOWARD COUNTY GIS.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 3502 AND 3507 WERE USED FOR THIS PROJECT.
- STORMWATER MANAGEMENT FOR THE PROJECT IS PROVIDED BY THE USE OF NON-STRUCTURAL PRACTICES AND MICRO-SCALE PRACTICES IN ACCORDANCE WITH ENVIRONMENTAL SITE DESIGN CRITERIA. NON-STRUCTURAL PRACTICES INCLUDE NON-ROOFTOP DISCONNECTION (N-2), MICRO-SCALE PRACTICES INCLUDE FOUR (4) MICRO-BIORETENTION (M-6). THESE FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED.
- EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS AND AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE.
- ANY DAMAGE TO THE COUNTY'S RIGHTS-OF-WAY, PAVING, OR EXISTING UTILITIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- EXISTING STRUCTURES LOCATED ON-SITE ARE TO REMAIN. NO NEW BUILDINGS, EXTENSIONS OR ADDITIONS TO THE EXISTING DWELLINGS ARE TO BE CONSTRUCTED AT A DISTANCE LESS THAN THE MINIMUM REQUIREMENTS.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 - A) WIDTH - 12 FEET (16 FEET IF SERVING MORE THAN ONE RESIDENCE)
 - B) SURFACE - 6" OF COMPACTED CRUSHER RUN BASE W/TAR AND CHIP COATING (1-1/2" MIN.)
 - C) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE, AND MINIMUM 45 FOOT TURNING RADIUS
 - D) STRUCTURES (CULVERTS/BROOKS) - CAPABLE OF SUPPORTING 25 GROSS TONS (2525 LBS) LOADING
 - E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD EVENTS WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE
 - F) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE
- ALL DRIVEWAY ENTRANCES SHALL UTILIZE HOWARD COUNTY STANDARD DETAIL NO. R-8-06.
- HALL SHOP ROAD IS CLASSIFIED AS A MAJOR COLLECTOR. ACCESS FROM HALL SHOP ROAD IS PERMITTED ONLY FOR THE PROPOSED COMMERCIAL SOLAR PROJECT (BA-21-008C).
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE WETLANDS, STREAMS OR THEIR REQUIRED BUFFERS, FOREST CONSERVATION EASEMENT AREAS, 100 YEAR FLOODPLAIN AND THE EXISTING POND.
- THIS PROPERTY IS NOT WITHIN THE METROPOLITAN DISTRICT.
- WATER FOR THIS PROJECT IS PRIVATE. THE HEALTH DEPARTMENT HAS NOT APPROVED THIS PROPERTY FOR WASTEWATER DISCHARGE.
- SEWER FOR THIS PROJECT IS PRIVATE. THE HEALTH DEPARTMENT HAS NOT APPROVED THIS PROPERTY FOR WASTEWATER DISCHARGE.
- TO THE BEST OF THE OWNER'S KNOWLEDGE, THERE ARE NO BURIAL GROUNDS OR CEMETERIES LOCATED ON THIS PROPERTY OR THE COUNTY'S CEMETERY SITE MAP.
- WETLANDS, STREAMS, FOREST AND THEIR BUFFERS SHOWN ON-SITE WERE ONLY DELINEATED NEAR THE CONDITIONAL USE AREA AND ARE BASED ON ENVIRONMENTAL PLAN BY ECP-SCIENCE PROFESSIONALS, INC. C/D MR. JOHN CANOLES, DATED MARCH 9, 2021. THE WETLANDS, STREAMS, FOREST AND THEIR BUFFERS ARE OUTSIDE OF THE LIMIT OF DISTURBANCE AND PROJECT AREA AND SHALL NOT BE DISTURBED.
- THIS PLAN COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION AND THE FOREST CONSERVATION MANUAL. THE FOREST CONSERVATION OBLIGATION FOR THIS PROJECT IS 1.90 ACRES OF AFFORESTATION, WHICH SHALL BE SATISFIED BY THE ON-SITE RETENTION OF 3.82 ACRES OF EXISTING FOREST ON LOT 1 OUTSIDE OF THE PROJECT AREA.
 - TOTAL FOREST CONSERVATION OBLIGATION OF THIS PROJECT TO BE FULFILLED BY:
 - 1) THE RETENTION OF 3.82 ACRES (3.82 / 2 = 1.91 ACRES) OF EXISTING FOREST; PLAT NO. 28249.
- A TRAFFIC STUDY IS NOT REQUIRED.
- A NOISE STUDY IS NOT REQUIRED.
- REFERENCE TEST PIT REPORT PREPARED BY VOGEL ENGINEERING + TIMMONS GROUP, INC. DATED DECEMBER 20, 2021 FOR SUBSURFACE EXPLORATION TESTING AT BORINGS P-1 TO P-4.
- THE PRE-SUBMISSION COMMUNITY MEETING WAS HELD FOR THIS PROJECT ON AUGUST 6, 2020 VIA THE ZOOM VIDEO CONFERENCE PLATFORM.
- THE ENVIRONMENTAL CONCEPT PLAN (ECP-22-019) WAS APPROVED PER LETTER DATED NOVEMBER 23, 2021.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.1204 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
 - A FINANCIAL SURETY IN THE AMOUNT OF \$24,750 SHALL BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT:
 - FOR REMEDIATION PLANTINGS IN THE AMOUNT OF \$5,400 FOR THE REQUIRED 18 SHADE TREES, AND \$19,350 FOR THE REQUIRED 129 EVERGREEN TREES.
 - FOR REMEDIATION PLANTINGS IN ACCORDANCE WITH THE LANDSCAPE MANUAL.
- A 100-YR FLOODPLAIN IS LOCATED ON-SITE BUT NOT WITHIN THE PROJECT AREA.
- STEEP SLOPES ARE NOT ON-SITE OR WITHIN THE PROJECT AREA.
- THIS PROJECT IS SUBJECT TO ZONING AND LAND USE BOARD OF APPEALS CASE BA-21-008C, ON JULY 5, 2021; THE ZONING AND LAND USE BOARD OF APPEALS GRANTED THE PETITION OF TPE MD HO93, LLC PROVIDED THAT THE PETITIONER MEET CERTAIN CONDITIONS. THE PETITION IS GRANTED PROVIDED THAT THE PETITIONER MEET THE FOLLOWING CONDITIONS:
 - A. THE COMMERCIAL SOLAR FACILITY CONDITIONAL USE SHALL BE CONDUCTED IN CONFORMANCE WITH AND SHALL ONLY TO THE PETITION AS SUBMITTED AND AS SHOWN ON THE CONDITIONAL USE PLAN SUBMITTED WITH THE PETITION DATED MARCH 2020, AND NOT TO ANY OTHER ACTIVITIES USES, OR STRUCTURES ON THE PROPERTY.
 - B. THE SITE DEVELOPMENT PLAN, OR ITS EQUIVALENT, SHALL INCLUDE A NOTE CONTAINING ALL CONDITIONS OF APPROVAL.
 - C. THE PETITIONER SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
 - D. THE PETITIONER SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS AND PROVISIONS.
 - E. ANY COMMERCIAL SOLAR FACILITY THAT IS NO LONGER USED SHALL BE REMOVED BY THE PROPERTY OWNER FROM THE SITE WITHIN ONE YEAR OF THE DATE THAT THE USE CEASES.
 - F. THE PREMISES SHALL BE MAINTAINED AT ALL TIMES IN A CLEAN AND ORDERLY CONDITIONS, INCLUDING THE CARE OR REPLACEMENT OF PLANT MATERIALS - REQUIRED IN THE LANDSCAPING PLAN. THE RESPONSIBILITY FOR COMPLIANCE WITH THIS PROVISION SHALL BE WITH ALL PARTIES HAVING A LEASE OR OWNERSHIP INTEREST IN THE COMMERCIAL SOLAR FACILITY.
 - G. THE PETITIONER SHALL REGISTER ALL SOLAR COLLECTORS WITH THE DEPARTMENT OF FIRE AND RESCUE SERVICES. THE REGISTRATION SHALL INCLUDE A MAP OF THE SOLAR FACILITY NOTING THE RESCUE SERVICES. THE REGISTRATION SHALL INCLUDE A MAP OF THE SOLAR FACILITY NOTING THE LOCATION OF THE SOLAR COLLECTORS AND THE PANEL DISCONNECT.
 - H. TREE REMOVAL SHALL BE MINIMIZED, AND REFORESTATION SHALL BE DONE IN ACCORDANCE WITH SECTION 16.1028 OF THE HOWARD COUNTY CODE. ALL REQUIRED LANDSCAPING SHALL BE PROVIDED WITHIN 6 MONTHS OF INSTALLATION OF THE SOLAR PANELS.
- A KNOX LOCK SHALL BE LOCATED AT THE MAIN ENTRANCE.
- ALL GATES SHALL NOT BE LOCATED CLOSER THAN 30 FT FROM AN INTERSECTION AND SHALL OPEN IN THE DIRECTION OF EMERGENCY VEHICLE TRAVEL.
- PRIMARY ELECTRICAL DISCONNECT ARE THE SWITCHGEARS. THE SECONDARY DISCONNECT ARE THE TRANSFORMERS.
- AN ELECTRICAL HAZARD SIGN AND EMERGENCY CONTACT INFORMATION FOR SITE REPRESENTATIVES SHALL BE LOCATED AT THE ENTRANCE.
- PANEL LISTINGS AND FLAME SPREAD RATINGS SHALL BE LISTED AT THE ENTRANCE.
- THE DEVELOPER SHALL PROVIDE TRAININGS TO THE FIRE DEPARTMENT FOR EVERY SOLAR SITE.
- UPON DECOMMISSIONING OF THE SOLAR FACILITY THE PETITIONER/OPERATOR WILL REMOVE STORMWATER MANAGEMENT PRACTICES AND RESTORE ACCORDINGLY (AT THE REQUEST OF THE PROPERTY OWNER).
- ALL ACCESS DRIVES FROM THE PUBLIC ROAD TO THE EQUIPMENT PAD TO BE 12" MINIMUM WIDTH AND CAPABLE OF SUPPORTING FIRE DEPARTMENT VEHICLES.
- ISOLATED, SURFACE SMOOTHING AND/OR FINE GRADING MAY BE REQUIRED TO SUPPORT SOLAR EQUIPMENT INSTALLATION. HOWEVER, NO MASS GRADING WILL BE REQUIRED.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) 3" LONG. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.
- THIS PROJECT IS SUBJECT TO A DESIGN MANUAL WAMER APPROVED ON JUNE 3, 2020 OF VOLUME III, SECTION 2.4-10 WHICH REQUESTED INTERSECTION TYPES-COUNTRY ROAD. A PAYMENT OF A FEE-IN-LIEU OF CONSTRUCTION OF THE ROAD SECTION WAS REQUESTED AND APPROVED.
- THE APPROVED FEE-IN-LIEU AMOUNT IS \$30,702 FOR COMPLETING THE IMPROVEMENTS DIRECTLY FRONTING THE PROJECT SITE.
- THIS PROJECT IS SUBJECT TO A DESIGN MANUAL WAMER APPROVED ON JUNE 3, 2020 OF VOLUME III, SECTION 2.4-10 WHICH REQUESTED INTERSECTION TYPES-COUNTRY ROAD. A PAYMENT OF A FEE-IN-LIEU OF CONSTRUCTION OF THE ROAD SECTION WAS REQUESTED AND APPROVED.
- SIGHT REQUIREMENTS FOR DRIVEWAYS ACCESSING ROAD CLASSIFICATIONS GREATER THAN A MAJOR COLLECTOR.
 - 1. THE DEVELOPER SHALL SUBMIT THE SITE DEVELOPMENT PLAN ORIGINALS FOR SDP-22-022 WITHIN 60 DAYS OF THE DATE OF THIS LETTER (ON OR BEFORE MARCH 19, 2023).
 - 2. PLEASE PROVIDE A GENERAL NOTE REGARDING THIS ALTERNATIVE COMPLIANCE STATING THE SECTION, DATE APPROVED AND CONDITIONS OF APPROVAL.

SITE ANALYSIS:

TOTAL PARCEL AREA: 53.10 AC.
 PRESENT ZONING: RR-DEO
 USE OF STRUCTURE SOLAR FACILITY, COMMERCIAL
 TOTAL PROPOSED COVERAGE (IMPERVIOUS AREA): 0.08 AC. OR (0.50% OF LDD)
 AREA OF WETLAND AND BUFFERS: 107,482 SF OR 2.47 AC.
 AREA OF STREAM AND BUFFERS: 152,820 SF OR 3.46 AC.
 AREA OF EXISTING FOREST: 1,129,380 SF OR 25.83 AC.
 AREA OF MODERATE SLOPES (10%-24.99%): 189,216 SF OR 4.37 AC.
 AREA OF STEEP SLOPES (25% OR GREATER): 0.00 SF OR 0.00 AC.
 AREA OF ERODIBLE SOILS: 1,787,450 SF OR 41.03 AC.
 AREA OF FLOODPLAIN: 11,867 SF OR 0.25 AC.
 CONDITIONAL USE AREA: 12.85 AC. FENCE AREA + 0.03 AC. NEW ACCESS ROAD
 LIMIT OF DISTURBANCE: 13.06 AC.
 CUT: 1,108 CY FILL: 270 CY

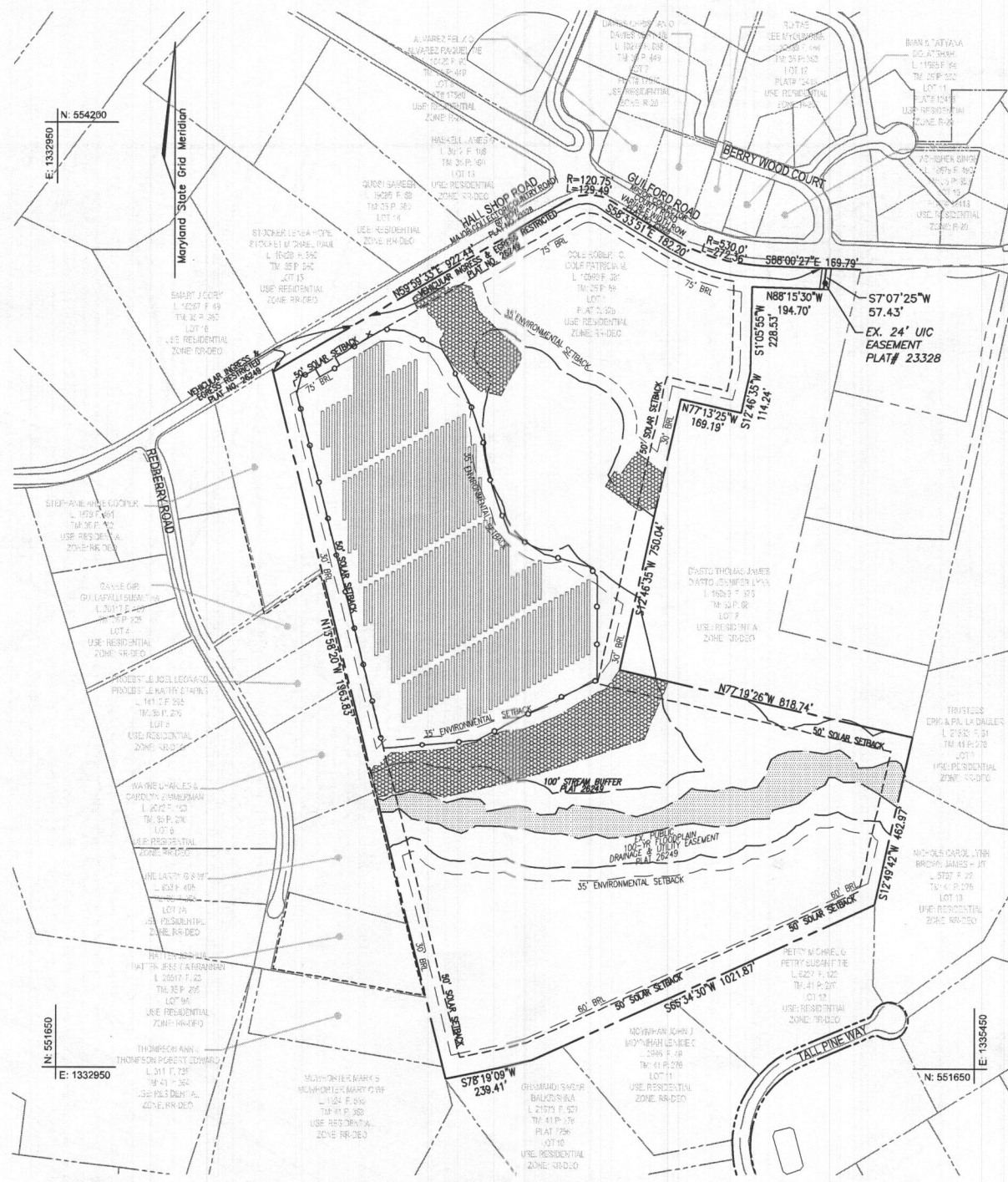
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 DATE: 4/13/2023
 CHIEF, DEVELOPMENT-ENGINEERING DIVISION
 DATE: 4/14/2023
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 4/17/2023
 DIRECTOR
 DATE:

NOTE:
 1. LIMIT OF DISTURBANCE, SUPER SILT FENCE AND TREE PROTECTION FENCE ARE OFFSET ON PLAN FOR CLARITY.
 2. CONTRACTOR TO INSTALL LIMIT OF DISTURBANCE OFFSET 0-4' FROM SOLAR FENCE AND PROPOSED DRIVEWAY PAVEMENT. SUPER SILT FENCE TO BE OFFSET 1-2' FROM THE LIMIT OF DISTURBANCE. TREE PROTECTION FENCE TO BE OFFSET 0.0-0.5' FROM LIMIT OF DISTURBANCE.
 3. CONTRACTOR SHALL NOT DISTURB WETLANDS, STREAMS THEIR BUFFERS, FOREST OR THE EXISTING POND.

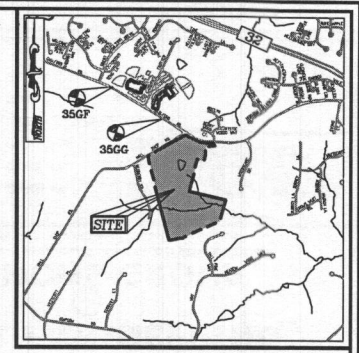
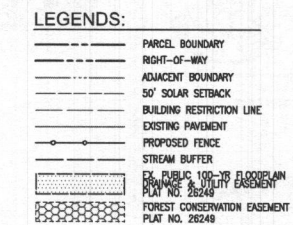
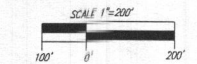
SITE DEVELOPMENT PLAN

GUILFORD SOLAR

TPE MD HO93, LLC
 11911 HALL SHOP ROAD
 CLARKSVILLE, MARYLAND 21029



LOCATION MAP
 SCALE: 1"=200'



VICINITY MAP
 SCALE: 1"=2000'
 ADC MAP: 5052 PAGE: 27 GRID: C1

BENCHMARKS
 HOWARD COUNTY BENCHMARK 35GG
 N 554,358.86 E 1,333,834.18 ELEV.: 477.96'
 HOWARD COUNTY MONUMENT
 HOWARD COUNTY BENCHMARK 35GF
 N 555,080.17 E 1,332,716.63' ELEV.: 466.90'
 HOWARD COUNTY MONUMENT

SHEET INDEX

| DESCRIPTION | SHEET NO. |
|---|-------------|
| COVER SHEET | 1 OF 18 |
| LAYOUT PLAN | 2-4 OF 18 |
| SITE DETAILS | 5 OF 18 |
| SOILS MAP, EROSION, EROSION AND SEDIMENT CONTROL PLAN | 6-7 OF 18 |
| GRADING, EROSION AND SEDIMENT CONTROL NOTES AND DETAILS | 8 OF 18 |
| STORMWATER MANAGEMENT DRAINAGE AREA MAP | 9-10 OF 18 |
| STORMWATER MANAGEMENT NOTES AND DETAILS | 11 OF 18 |
| STORM DRAIN DRAINAGE AREA MAP | 12-13 OF 18 |
| STORM DRAIN PROFILES & DETAILS | 14 OF 18 |
| FOREST CONSERVATION PLAN | 15-18 OF 18 |
| LANDSCAPE PLAN | 17 OF 18 |
| FOREST CONSERVATION & LANDSCAPE NOTES AND DETAILS | 18 OF 18 |

OWNER
 JENNIFER DASTO
 6840 GUILFORD ROAD
 CLARKSVILLE, MD 21029

DEVELOPER
 TPE MD HO93, LLC
 3820 S. DELIA STREET
 DENVER, CO 80237
 PHONE: 970-378-3937

VOGEL ENGINEERING
TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE
 DESIGN BY: RHY
 DRAWN BY: IMH
 CHECKED BY: RHY
 DATE: FEBRUARY 2023
 SCALE: AS SHOWN
 W.O. NO.: 45912

1 SHEET OF 18

ADDRESS CHART

| BUILDING NO. | STREET ADDRESS |
|--------------|----------------|
| 11911 | HALL SHOP ROAD |

PERMIT INFORMATION CHART

| SUBDIVISION NAME | SECTION/AREA | LOT/PARCEL NUMBER |
|-------------------------|--------------|-------------------|
| ROBERT C. COLE PROPERTY | - | LOT 1 / PARCEL 68 |

STORMWATER MANAGEMENT PRACTICES

| PARCEL NO. | STREET ADDRESS | FACILITY TYPE & M&E NO. | PUBLIC | PRIVATE | MAINTENANCE BY |
|------------|----------------------|---|--------|---------|----------------|
| 68 | 11911 HALL SHOP ROAD | NON-ROOFTOP DISCONNECTION (N-2), MICRO-BIORETENTION (M-6) | | X | OWNER |

| CURVE TABLE | | | | | | |
|-------------|--------|--------|---------|-----------|---------------|--------|
| CURVE | RADIUS | LENGTH | TANGENT | DELTA | CHORD BEARING | CHORD |
| C1 | 120.75 | 128.49 | 71.78 | 61°28'36" | N89°17'09"W | 123.37 |
| C2 | 530.00 | 272.38 | 139.28 | 29°28'36" | S73°17'09"E | 289.37 |

| COORDINATE TABLE | | |
|------------------|---------------|----------------|
| 101 | N 591621.0091 | E 1334012.3375 |
| 102 | N 593263.7312 | E 1333938.1710 |
| 103 | N 593881.8645 | E 1333864.0045 |
| 104 | N 593881.8645 | E 1334460.3295 |
| 105 | N 593881.8645 | E 1334012.3375 |
| 106 | N 593881.8645 | E 1334873.7789 |
| 107 | N 593881.8645 | E 1335043.4615 |
| 108 | N 593751.1309 | E 1333938.1710 |
| 109 | N 593751.1309 | E 1334460.3295 |
| 110 | N 593751.1309 | E 1334873.7789 |
| 111 | N 593751.1309 | E 1335043.4615 |
| 112 | N 593417.1498 | E 1334873.7789 |
| 113 | N 593417.1498 | E 1335043.4615 |
| 114 | N 592230.0978 | E 1334460.3295 |
| 115 | N 592230.0978 | E 1334873.7789 |
| 116 | N 592230.0978 | E 1335043.4615 |
| 117 | N 591869.4798 | E 1334460.3295 |

| WETLANDS LINE TABLE | | |
|---------------------|-------------|---------|
| W1 | N84°58'44"E | 43.07' |
| W2 | S41°35'25"E | 365.38' |
| W3 | N80°05'46"W | 45.30' |
| W4 | N80°05'46"W | 65.10' |
| W5 | S53°29'57"W | 39.87' |
| W6 | N06°49'45"W | 13.25' |
| W7 | N59°39'50"W | 82.46' |
| W8 | N05°27'27"W | 32.20' |
| W9 | N53°44'53"W | 58.88' |
| W10 | N88°01'59"W | 26.92' |
| W11 | N53°23'08"W | 42.74' |
| W12 | S85°47'04"W | 24.81' |
| W13 | N73°29'50"W | 21.81' |
| W14 | S87°52'59"W | 49.58' |
| W15 | N00°29'25"W | 25.72' |
| W16 | N59°59'33"E | 112.90' |

GENERAL NOTES

- THE SUBJECT PROPERTY IS ZONED RR-DEO PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN.
- COORDINATES BASED ON NAD '83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS: 35GG AND 36GF.
- DENOTES ANGULAR CHANGE IN BEARING OF BOUNDARY OR RIGHT OF WAY
- DENOTES IRON PIPE OR BAR FOUND
- DENOTES STONE OR MONUMENT FOUND
- ⊙ DENOTES RESUR WITH CAP SET
- ⊚ DENOTES BUILDING RESTRICTION LINE.
- AREAS SHOWN HEREON ARE MORE OR LESS
- THIS PLAT AND THE COORDINATES SHOWN HEREON ARE BASED UPON A FIELD RUN BOUNDARY PREPARED BY VOGEL ENGINEERING + TIMMONS GROUP IN APRIL 2022.
- SEE PREVIOUS DEPARTMENT OF PLANNING AND ZONING FILE NUMBERS: F-14-024, BA-21-009C, ECP-22-019, SDP-22-022
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS: WIDTH - 12' (16' SERVING MORE THAN ONE RESIDENCE) SURFACE - OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MIN) GEOMETRY - MAX 15% GRADE, MAX 10% GRADE CHANGE AND MIN 45' TURNING RADIUS. STRUCTURE (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING). DRAINAGE ELEMENTS - SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE. MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS, OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS.
- THERE ARE EXISTING DWELLINGS/STRUCTURE(S) LOCATED ON LOT 1 TO REMAIN. NO NEW BUILDINGS, EXTENSIONS OR ADDITIONS TO THE EXISTING DWELLINGS ARE TO BE CONSTRUCTED AT A DISTANCE LESS THAN THE ZONING REGULATION REQUIREMENTS.
- THE FOREST CONSERVATION EASEMENTS HAVE BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT PURSUING THE REQUIREMENTS OF SDP-22-022. NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, HOWEVER FOREST MANAGEMENT PRACTICES AS DERIVED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
- RESERVATION OF PUBLIC UTILITY AND FOREST CONSERVATION EASEMENTS: DEVELOPER RESERVES UNTO ITSELF, ITS SUCCESSORS AND ASSIGNS, ALL EASEMENTS SHOWN ON THIS PLAN FOR WATER, SEWER, STORM DRAINAGE, OTHER PUBLIC UTILITIES AND FOREST CONSERVATION (DESIGNATED AS "FOREST CONSERVATION AREA") LOCATED IN, ON, OVER, AND THROUGH LOTS/PARCELS, ANY CONVEYANCES OF THE AFORESAID LOTS/PARCELS SHALL BE SUBJECT TO THE EASEMENTS HEREIN RESERVED, WHETHER OR NOT EXPRESSLY STATED IN THE DEED(S) CONVEYING SAID LOTS/PARCELS. DEVELOPER SHALL EXECUTE AND DELIVER DEEDS FOR THE EASEMENTS HEREIN RESERVED TO HOWARD COUNTY, UPON COMPLETION OF THE PUBLIC UTILITIES AND THEIR ACCEPTANCE BY HOWARD COUNTY, AND IN THE CASE OF THE FOREST CONSERVATION EASEMENT(S), UPON COMPLETION OF THE DEVELOPER'S OBLIGATIONS UNDER THE FOREST CONSERVATION INSTALLATION AND MAINTENANCE AGREEMENT EXECUTED BY THE DEVELOPER AND THE COUNTY, AND THE RELEASE OF DEVELOPER'S SURETY POSTED WITH SAID AGREEMENT. THE COUNTY SHALL ACCEPT THE EASEMENTS AND RECORD THE DEED(S) OF EASEMENT IN THE LAND RECORDS OF HOWARD COUNTY.
- THIS PLAT IS EXEMPT FROM THE REQUIREMENTS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL BECAUSE IT IS A REVISION PLAT THAT DOES NOT CREATE ANY NEW LOTS/PARCEL DIVISIONS.
- THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE EASEMENT. RECORDED OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
- TO THE BEST OF THE OWNERS KNOWLEDGE, THERE ARE NO BURIAL GROUNDS, CEMETERIES LOCATED ON THE SUBJECT PROPERTY OR THE COUNTY'S CEMETERY SITE MAP.
- A TRAFFIC STUDY IS NOT REQUIRED FOR THIS PLAT OF REVISION.
- A NOISE STUDY IS NOT REQUIRED FOR THIS PLAT OF REVISION.
- WETLANDS, STREAMS, FOREST AND THEIR BUFFERS SHOWN ON-SITE WERE ONLY DELINEATED NEAR THE CONDITIONAL USE AREA (BA-21-009C) AND ARE BASED ON ENVIRONMENTAL PLAN BY ECO-SCIENCE PROFESSIONALS, INC. OR MR. JOHN CAHOLES, DATED MARCH 9, 2021 FOR A COMMERCIAL SOLAR PROJECT. THE WETLANDS, STREAMS, FOREST AND THEIR BUFFERS ARE OUTSIDE OF THE LIMIT OF DISTURBANCE AND PROJECT AREA AND SHALL NOT BE DISTURBED.
- THE 100-YR FLOODPLAIN SHOWN ON THIS PLAT WAS DETERMINED BY A NON-CRITICAL FLOOD STUDY USING TR-55 AND MANNING'S CHANNEL COMPUTATIONS. THE FLOOD STUDY FOR THIS PROJECT WAS PREPARED BY TOM D'ASTO, DATED 3-8-2014, AND WAS APPROVED ON 5-14-2014 UNDER PLAT 23328.
- 50' ACCESS ALONG HALL SHOP ROAD IS FOR A COMMERCIAL SOLAR PROJECT ONLY (BA-21-009C, SDP-22-022) AND ACCESS FOR ANY OTHER USE IS NOT PERMITTED ALONG HALL SHOP ROAD.
- THE EXISTING DRIVEWAY ON LOT 1 ALONG GUILFORD ROAD IS RESTRICTED TO AGRICULTURAL PURPOSES ONLY. NON-AGRICULTURAL INGRESS AND EXPRESS IS RESTRICTED TO THE USE-IN-COMMON DRIVEWAY IN ACCORDANCE WITH PLAT 23328.

AREA TABULATION CHART

| A. TOTAL NUMBER OF LOTS AND/OR PARCELS TO BE RECORDED | |
|---|------------|
| • BUILDABLE | 1 |
| • NON-BUILDABLE | 0 |
| • OPEN SPACE | 0 |
| • PRESERVATION PARCELS | 0 |
| B. TOTAL AREA OF LOTS AND/OR PARCELS | |
| • BUILDABLE | 53.1112 AC |
| • NON-BUILDABLE | 0.0000 AC |
| • OPEN SPACE | 0.0000 AC |
| • PRESERVATION PARCELS | 0.0000 AC |
| C. TOTAL AREA OF ROADWAY TO BE RECORDED INCLUDING WIDENING STRIPS | |
| | 0.0000 AC |
| D. TOTAL AREA OF SUBDIVISION TO BE RECORDED | |
| | 53.1112 AC |

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

[Signature] 12/29/22
HOWARD COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 1.9.23
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 1/12/23
DIRECTOR DATE

OWNER'S CERTIFICATE

I, JENNIFER L. D'ASTO, OWNER, OF THE PROPERTY SHOWN AND DESCRIBED HEREON, HEREBY ADOPT THIS PLAN OF SUBDIVISION, AND IN CONSIDERATION OF THE APPROVAL OF THIS FINAL PLAT BY THE DEPARTMENT OF PLANNING AND ZONING, ESTABLISH THE MINIMUM BUILDING RESTRICTION LINES AND GRANT UNTO HOWARD COUNTY, MARYLAND, ITS SUCCESSORS AND ASSIGNS:

(1) THE RIGHT TO LAY, CONSTRUCT AND MAINTAIN SEWERS, DRAINS, WATER PIPES AND OTHER MUNICIPAL UTILITIES AND SERVICES, IN AND UNDER ALL ROADS AND STREET RIGHTS-OF-WAY AND THE SPECIFIC EASEMENT AREAS SHOWN HEREON; (2) THE RIGHT TO REQUIRE DEDICATION FOR PUBLIC USE THE BEDS OF THE STREETS AND/OR ROADS AND FLOODPLAINS AND OPEN SPACE WHERE APPLICABLE, AND FOR GOOD AND OTHER VALUABLE CONSIDERATION, HEREBY GRANT THE RIGHT AND OPTION TO HOWARD COUNTY TO ACQUIRE THE FEE SIMPLE TITLE TO THE BEDS OF THE STREETS AND/OR ROADS AND FLOODPLAINS, STORM DRAINAGE FACILITIES AND OPEN SPACE WHERE APPLICABLE; (3) THE RIGHT TO REQUIRE DEDICATION OF WATERWAYS AND DRAINAGE EASEMENTS FOR THE SPECIFIC PURPOSE OF THEIR CONSTRUCTION, REPAIR AND MAINTENANCE; AND (4) THAT NO BUILDING OR SIMILAR STRUCTURE OF ANY KIND SHALL BE ERRECTED ON OR OVER THE SAID EASEMENTS AND RIGHT-OF-WAYS.

WITNESS OUR HANDS THIS 14th DAY OF OCTOBER, 2022

[Signature] JENNIFER L. D'ASTO
JENNIFER L. D'ASTO

[Signature] WITNESS

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE FINAL PLAT SHOWN HEREON IS CORRECT; THAT IT IS A REVISION OF ALL OF THE LANDS CONVEYED BY JENNIFER L. D'ASTO, TRUSTEE OF THE COLE FAMILY REVOCABLE TRUST TO JENNIFER L. D'ASTO BY DEED DATED MAY 3, 2022 AND RECORDED IN THE LAND RECORDS OF HOWARD COUNTY IN LIBER 21622 FOLIO 147, AND ALSO SHOWN ON A SUBDIVISION PLAT ENTITLED "ROBERT C. COLE PROPERTY, LOTS 1 AND 2" RECORDED AS PLAT NO. 23328; AND THAT ALL MONUMENTS ARE IN PLACE OR WILL BE IN PLACE PRIOR TO THE ACCEPTANCE OF THE STREETS IN THE SUBDIVISION BY HOWARD COUNTY, IN ACCORDANCE WITH THE ANNOTATED CODE OF MARYLAND, AS AMENDED.

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND.

[Signature] 10/3/22
THOMAS M. HOFFMAN, JR. DATE
PROPERTY LINE SURVEYOR, MD REG. NO. 267
EXPIRATION/RENEWAL DATE JULY 28, 2024

VOGEL ENGINEERING
TIMMONS GROUP
3900 WOODBINE ROAD, SUITE 200, BELLEVILLE, MD 21034
P: 410-661-2666 F: 410-661-2661 WWW.TIMMONSGROUP.COM

RECORDED AS PLAT NO. 26249 ON 1-20-23
AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND

PLAT OF REVISION

ROBERT C. COLE PROPERTY

LOT 1

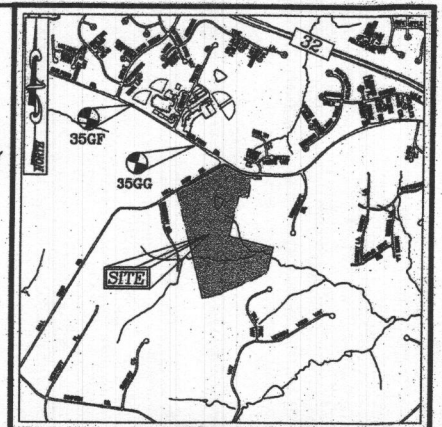
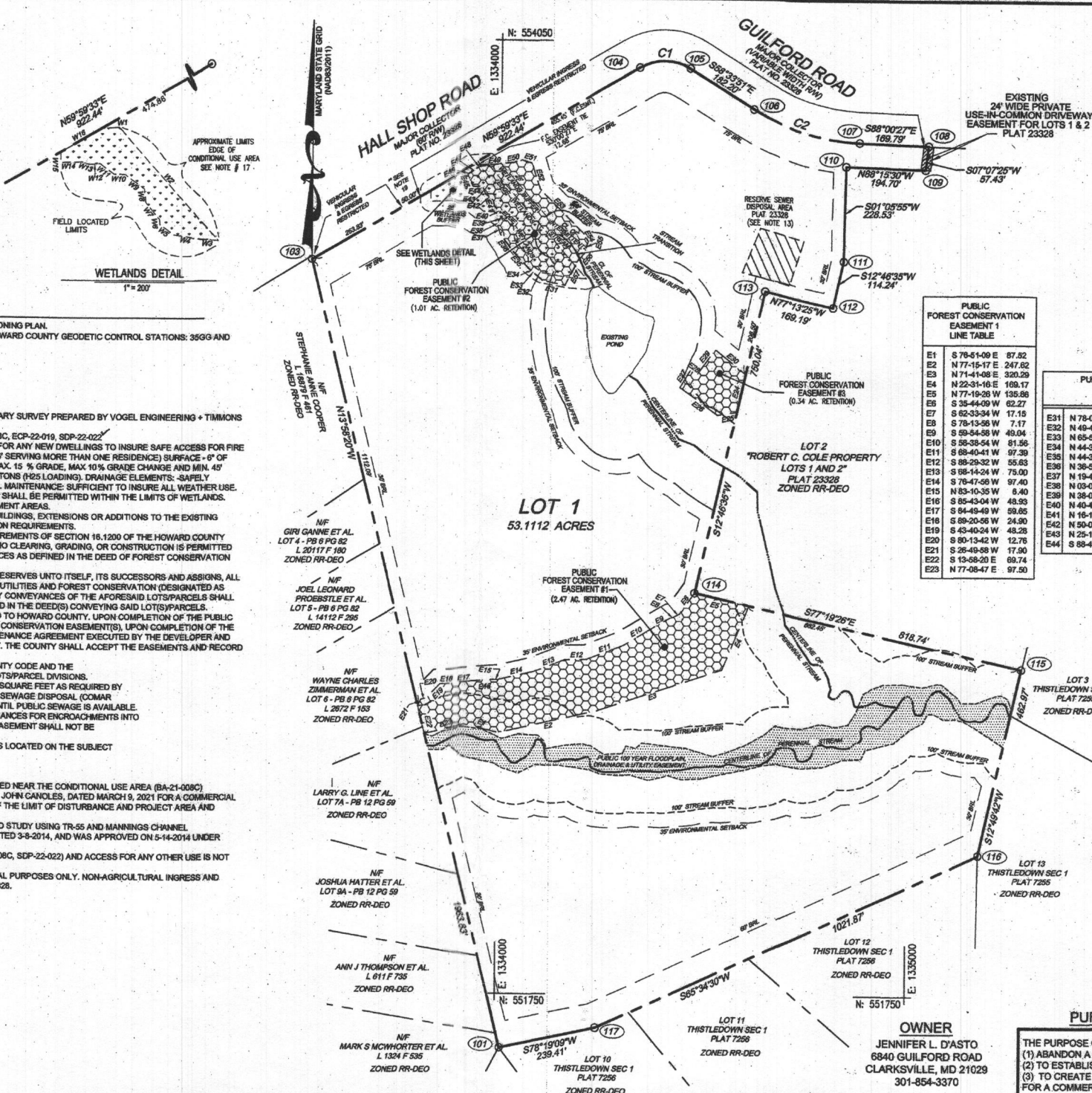
A REVISION OF LOT 1
PLAT OF "ROBERT C. COLE PROPERTY, LOTS 1 AND 2"
PLAT 23328
ZONED RR-DEO

TAX MAP 35, GRID 20, PARCEL 68
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SCALE: 1" = 200' OCTOBER 3, 2022

GRAPHIC SCALE
200' 0 200' 400' 600'

SHEET 1 OF 1



PUBLIC FOREST CONSERVATION EASEMENT #1 LINE TABLE

| | | |
|-----|--------------|---------|
| E1 | S 70°41'09 E | 87.82' |
| E2 | N 77°15'17 E | 247.62' |
| E3 | N 71°41'08 E | 320.29' |
| E4 | N 22°31'16 E | 169.17' |
| E5 | N 77°49'36 W | 135.88' |
| E6 | S 35°44'09 W | 62.27' |
| E7 | S 62°33'34 W | 17.15' |
| E8 | S 78°13'36 W | 7.17' |
| E9 | S 89°54'58 W | 40.04' |
| E10 | S 92°35'54 W | 81.56' |
| E11 | S 88°40'41 W | 97.39' |
| E12 | S 88°29'32 W | 55.83' |
| E13 | S 98°14'24 W | 75.00' |
| E14 | S 78°47'58 W | 97.40' |
| E15 | N 83°45'35 W | 6.40' |
| E16 | N 85°43'04 W | 48.93' |
| E17 | S 84°48'49 W | 59.65' |
| E18 | S 89°26'58 W | 24.90' |
| E19 | S 43°40'24 W | 48.28' |
| E20 | S 80°13'42 W | 12.76' |
| E21 | S 26°49'58 W | 17.30' |
| E22 | S 13°58'29 E | 68.74' |
| E23 | N 77°49'47 E | 97.50' |

PUBLIC FOREST CONSERVATION EASEMENT #2 LINE TABLE

| | | |
|-----|--------------|---------|
| E31 | N 78°00'34 W | 56.70' |
| E32 | N 49°44'38 W | 28.41' |
| E33 | N 65°50'15 W | 3.14' |
| E34 | N 44°39'25 W | 9.82' |
| E35 | N 44°39'25 W | 19.25' |
| E36 | N 38°56'12 W | 50.16' |
| E37 | N 19°41'29 W | 23.85' |
| E38 | N 03°07'15 E | 7.17' |
| E39 | N 38°09'09 E | 19.25' |
| E40 | N 40°46'54 W | 28.60' |
| E41 | N 16°11'21 W | 15.88' |
| E42 | N 50°02'33 W | 23.75' |
| E43 | N 29°16'40 W | 19.58' |
| E44 | S 88°49'51 W | 24.11' |
| E45 | N 24°02'53 W | 31.37' |
| E46 | N 51°25'25 E | 6.44' |
| E47 | N 54°27'43 E | 22.66' |
| E48 | N 62°38'33 E | 8.58' |
| E49 | N 32°07'51 E | 63.25' |
| E50 | N 76°38'46 E | 21.01' |
| E51 | S 76°05'48 E | 25.45' |
| E52 | S 17°27'06 E | 66.30' |
| E53 | S 45°14'50 E | 149.35' |
| E54 | S 32°19'12 E | 22.84' |
| E55 | S 16°49'17 W | 27.51' |
| E56 | S 39°38'39 W | 27.83' |
| E57 | S 27°47'01 W | 66.37' |

PUBLIC FOREST CONSERVATION EASEMENT #3 LINE TABLE

| | | |
|-----|--------------|---------|
| E24 | S 12°56'10 W | 93.70' |
| E25 | S 81°05'53 W | 48.24' |
| E26 | N 54°02'40 W | 112.78' |
| E27 | N 31°08'47 E | 49.29' |
| E28 | S 53°59'57 E | 19.22' |
| E29 | N 36°00'03 E | 78.03' |
| E30 | S 51°05'29 E | 95.11' |

- LEGEND**
- PUBLIC 100 YEAR FLOODPLAIN, DRAINAGE & UTILITY EASEMENT
 - EXISTING 24' WIDE PRIVATE USE-IN-COMMON DRIVEWAY EASEMENT FOR LOTS 1 & 2 (PLAT 23328)
 - WETLANDS
 - PUBLIC FOREST CONSERVATION EASEMENT
 - CENTERLINE OF PERENNIAL STREAM
 - CENTERLINE OF INTERMITTENT STREAM

THE REQUIREMENTS OF § 3-108, THE REAL PROPERTY ARTICLE, ANNOTATED CODE OF MARYLAND, 1986 REPLACEMENT VOLUME, (AS SUPPLEMENTED) AS FAR AS THEY RELATE TO THE MAKING OF THIS PLAT AND THE SETTING OF MARKERS HAVE BEEN COMPLIED WITH.

[Signature] 10/3/22
THOMAS M. HOFFMAN, JR. DATE

[Signature] 10/14/22
JENNIFER L. D'ASTO DATE

PURPOSE NOTE

THE PURPOSE OF THIS PLAT IS TO:

- ABANDON A PORTION OF THE VEHICULAR INGRESS & EGRESS RESTRICTION,
- ESTABLISH PUBLIC FOREST CONSERVATION EASEMENTS, AND
- CREATE A PUBLIC 100 YEAR FLOODPLAIN, DRAINAGE & UTILITY EASEMENT FOR A COMMERCIAL SOLAR PROJECT ON LOT 1 (SDP-22-022).