

GENERAL NOTES

- SUBJECT PROPERTY ZONED RC-DEO PER 10-06-2013 COMPREHENSIVE ZONING PLAN.
- PROPERTY IS LOCATED ON FREDERICK ROAD, A SCENIC ROAD.
- PROPERTY IS SUBJECT TO PRESERVATION EASEMENT HO-90-17-E
- DEED REFERENCE: LIBER 3999, FOLIO 580
- PREVIOUS HOWARD COUNTY FILE NUMBERS: F-09-011, F-93-033, ECP-19-039, SDP-20-049, & BA CASE NUMBERS BA-15-029C, BA-19-044C, AND BA-19-045C
- PRIVATE WELLS AND SEWAGE ARE USED WITHIN THIS SITE. THERE ARE NO WELLS OR SEWAGE DISPOSAL AREAS WITHIN THE CONDITIONAL USE AREAS.
- THE BOUNDARY SHOWN WAS FIELD RUN BY SILL, ADCOCK & ASSOCIATES ON OR ABOUT MAY, 2006.
- THE TOPOGRAPHY ALONG FREDERICK ROAD WAS FIELD RUN BY ADCOCK & ASSOCIATES ON 8/17/2019. THE CONTOURS ARE SHOWN AT TWO FOOT INTERVALS. ALL OTHER TOPOGRAPHY IS BASED OFF OF HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 2011.
- THE SOILS SHOWN HAVE BEEN TAKEN FROM THE US DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE, WEB SOIL SURVEY WEBSITE, HOWARD COUNTY SOILS GRID 8, SUB-GRID 233.
- TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO CEMETERIES WITHIN THE CONDITIONAL USE AREA.
- EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- 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.
- THIS PROPERTY IS SUBJECT TO THE HOWARD COUNTY CASE BA-19-044C TO ALLOW THE CONDITIONAL USE FOR A COMMERCIAL SOLAR FACILITY AND WAS APPROVED ON DECEMBER 22, 2020 WITH THE FOLLOWING CONDITIONS:
 - 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 DATED APRIL 6, 2020 AND AMENDED AS OF NOVEMBER 23, 2020 AND NOT TO ANY OTHER ACTIVITIES USE, OR STRUCTURES ON THE PROPERTY;
 - PETITIONER SHALL COMPLY WITH ALL CONDITIONAL USE STANDARDS;
 - THE SITE DEVELOPMENT PLAN, OR ITS EQUIVALENT, SHALL INCLUDE A NOTE CONTAINING ALL CONDITIONS OF APPROVAL;
 - PETITIONER SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS;
 - THE SYSTEMS INSTALLED BY THE PETITIONER ON THE PROPERTY SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS AND PROVISIONS;
 - 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;
 - THE PREMISES SHALL BE MAINTAINED AT ALL TIMES IN A CLEAN AND ORDERLY CONDITION, 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;
 - 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;
 - TREE REMOVAL SHALL BE MINIMIZED, AND REFORESTATION SHALL BE DONE IN ACCORDANCE WITH SECTION 16.1038 OF THE HOWARD COUNTY CODE;
 - THE PETITIONER SHALL COMPLY WITH HOWARD COUNTY CODE, SECTION 15.512, WHICH REQUIRES A CURRENT SOIL CONSERVATION AND WATER QUALITY PLAN FOR ANY AGRICULTURAL PRESERVATION EASEMENT PROPERTY;
 - ALL REQUIRED LANDSCAPING SHALL BE PROVIDED WITHIN SIX (6) MONTHS OF INSTALLATION OF THE SOLAR PANELS.
- APPROVAL OF THE ECP DOES NOT CONSTITUTE APPROVALS OF SUBSEQUENT OR ASSOCIATED SITE DEVELOPMENT PLANS, SUBDIVISION PLANS, GRADING OR BUILDING PERMITS, PLAN REVISIONS OR FOREST CONSERVATION PLANS. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL COMMENTS AS THE DEVELOPMENT PLAN PROGRESSES THROUGH THE PLAN REVIEW OR PERMIT APPLICATION PROCESS.
- THE STORMWATER MANAGEMENT SYSTEM SHOWN ON THESE PLANS IS AN APPROXIMATION OF THE SIZE, SHAPE, AND LOCATION. IT IS UNDERSTOOD THAT THIS SYSTEM HAS NOT BEEN DESIGNED AND THE ACTUAL DESIGN MAY CHANGE, ALTERING THE NUMBER OF UNITS ALLOCATED FOR THIS DEVELOPMENT.

ENVIRONMENTAL CONCEPT PLAN

SED PJM HOLDINGS LLC

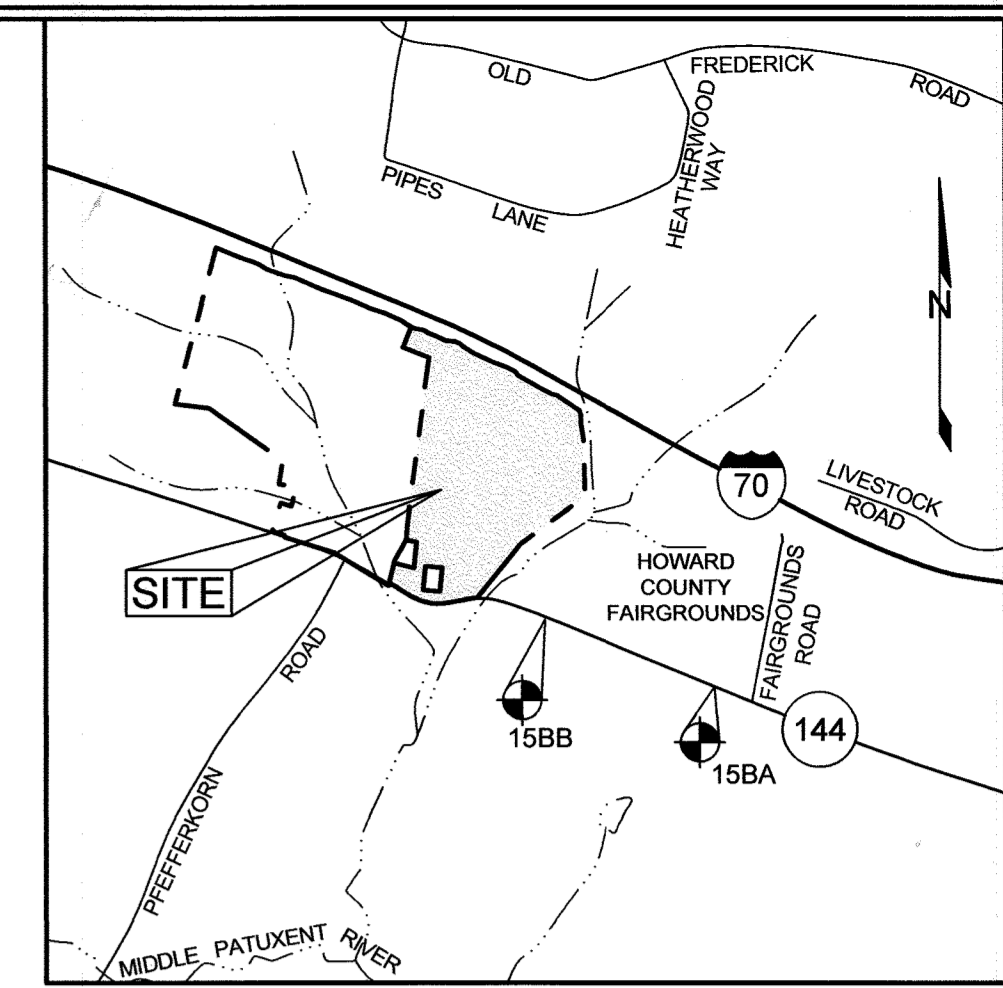
MHGH&S FARM

SOLAR FACILITY,

TAX MAP 15 PARCEL 146

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING SPECIMEN TREE
- EXISTING WETLAND
- EXISTING WETLAND BUFFER
- EXISTING STREAM
- EXISTING STREAM BUFFER
- PROPOSED 7' HIGH CHAIN LINK SECURITY FENCE



HOWARD COUNTY, MARYLAND
ADC MAP 17 GRIDS F1 & F2 AND MAP 18 GRIDS A1 & A2
VICINITY MAP
SCALE: 1"=2000'

BENCHMARKS			
NUMBER	NORTHING	EASTING	ELEVATION
15BA	597,228.1254	1,321,719.2760	590.296'
15BB	597,926.9029	1,319,949.6262	527.586'

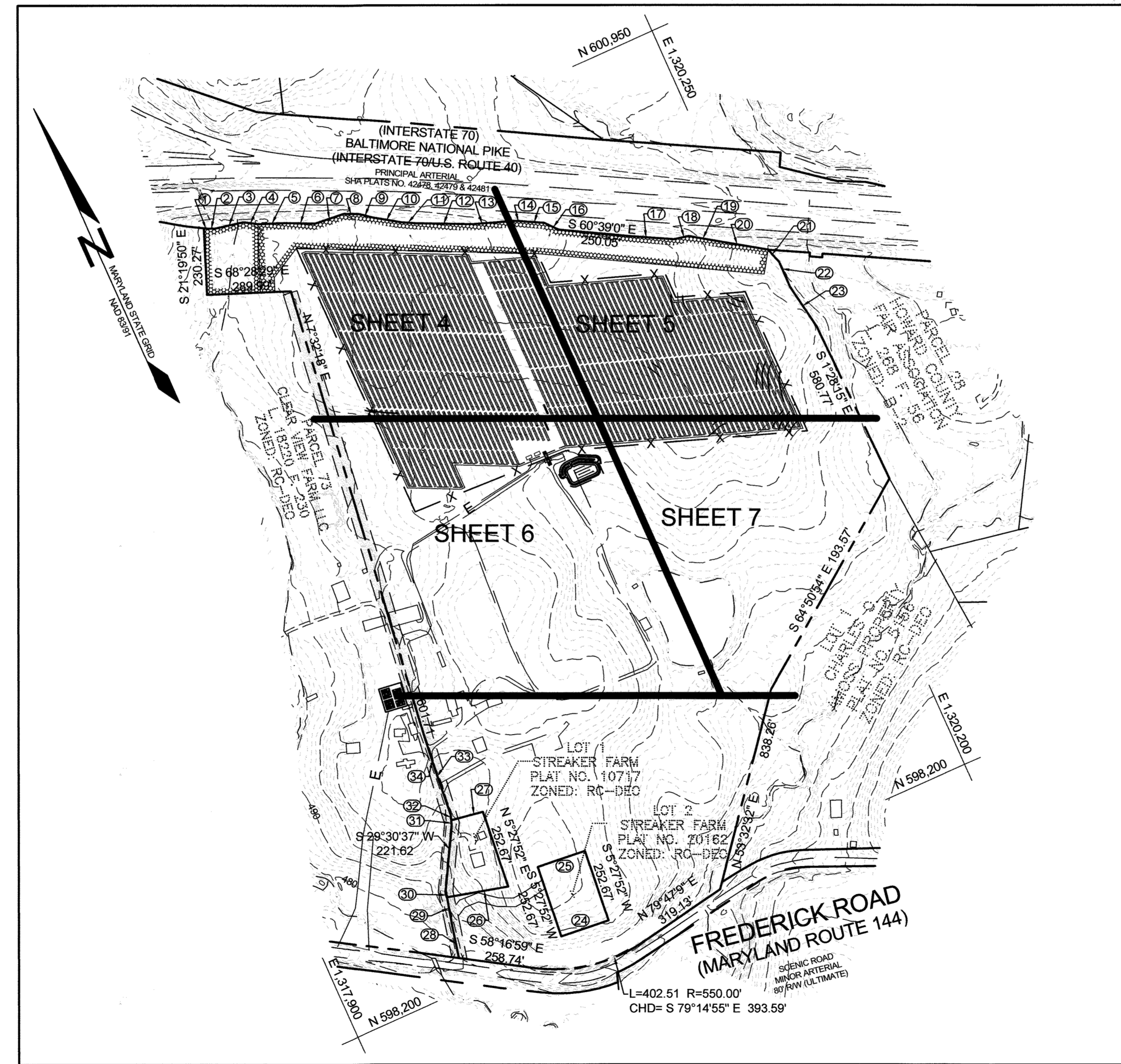
BEARING & DISTANCE CHART

TAG	BEARING	DISTANCE
1	S 59°45'9" E	14.16'
2	S 67°10'36" E	24.67'
3	N 78°18'37" E	100.78'
4	S 58°25'37" E	49.91'
5	S 68°25'56" E	98.90'
6	S 64°27'18" E	98.85'
7	S 84°35'21" E	104.98'
8	S 64°44'21" E	49.56'
9	S 50°52'20" E	50.97'
10	S 56°37'51" E	99.82'
11	S 61°25'24" E	49.49'
12	S 64°51'5" E	197.92'
13	S 70°17'7" E	150.03'
14	S 61°49'21" E	16.60'
15	S 61°46'53" E	81.15'
16	S 40°38'9" E	55.40'
17	S 61°47'45" E	150.00'
18	S 78°29'42" E	52.20'
19	S 56°57" E	100.50'
20	S 56°57" E	178.78'
21	S 18°47'3" E	56.64'
22	S 0°28'53" E	94.97'
23	S 9°43'15" E	164.83'
24	S 84°30'57" E	172.40'
25	S 84°30'57" E	172.40'
26	S 75°50'58" E	214.66'
27	S 80°45'16" E	113.12'
28	N 12°13'45" E	114.89'
29	N 14°9'43" E	98.69'
30	N 13°12'9" E	24.84'
31	N 21°3'11" E	21.14'
32	N 19°28'32" E	19.03'
33	N 4°55'7" E	158.57'
34	N 6°7'43" E	129.98'

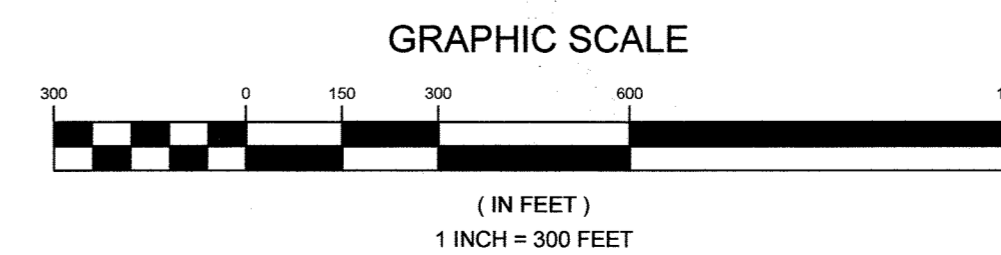
SITE ANALYSIS DATA SHEET

ENVIRONMENTAL AREA	SIZE OR USE (1)
TOTAL PROJECT AREA	82.22 ACRES ±
LIMIT OF DISTURBANCE	30.04 ACRES ±
GREEN OPEN AREA (LAWN)	29.28 ACRES ±
IMPERVIOUS AREA	0.78 ACRES ±
PROPOSED SITE USES	SOLAR FACILITY
WETLANDS	0 SQ FT ±
WETLAND BUFFERS	0 SQ FT ±
FLOODPLAINS	0 SQ FT ±
FLOODPLAIN BUFFERS	0 SQ FT ±
EXISTING FOREST	0 SQ FT ±
SLOPES GREATER THAN 15%	719 SQ FT ±
HIGHLY ERODIBLE SOILS (3)	0.51 ACRES ±

- NOTES:
- AREAS LISTED ABOVE ARE WITHIN THE AREA OF DEVELOPMENT ONLY.
 - SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY.
 - HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT.



LOCATION MAP
SCALE: 1"=300'



SHEET INDEX	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	EXISTING CONDITIONS AND SLOPE DELINEATION PLAN
3	SOILS MAP
4	SEDIMENT & EROSION CONTROL AND STORMWATER MANAGEMENT PLAN
5	SEDIMENT & EROSION CONTROL AND STORMWATER MANAGEMENT PLAN
6	SEDIMENT & EROSION CONTROL AND STORMWATER MANAGEMENT PLAN
7	SEDIMENT & EROSION CONTROL AND STORMWATER MANAGEMENT PLAN
8	STORMWATER MANAGEMENT DRAINAGE AREA MAP
9	SITE DETAILS
10	LANDSCAPE PLAN
11	LANDSCAPE PLAN

STORMWATER MANAGEMENT NOTES & DESIGN NARRATIVE

BELOW IS A LIST TO DESCRIBE THE STORMWATER MANAGEMENT REQUIREMENTS AND ACHIEVEMENTS FOR THE SITE PER THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I AND II, AS AMENDED BY THE STORMWATER MANAGEMENT ACT OF 2007.

- ENVIRONMENTALLY SENSITIVE AREAS HAVE BEEN AVOIDED.
- TO THE GREATEST EXTENT PRACTICABLE THE NATURAL FLOW PATTERNS OF THE SITE HAVE BEEN MAINTAINED.
- THE DESIGN INCORPORATES THE LEAST IMPERVIOUS AREA POSSIBLE.
- SILT FENCES ARE USED AS SEDIMENT AND EROSION CONTROL DEVICES.
- ESD PLANNING TECHNIQUES AND PRACTICES HAVE BEEN IMPLEMENTED, TO THE MAXIMUM EXTENT PRACTICABLE, THROUGH USE OF NON-ROOFTOP (N-2) DISCONNECTS.
- NO DESIGN MANUAL WAIVERS OR WAIVER PETITIONS ARE BEING REQUESTED.
- THE PROPOSED SOLAR AREAS WILL UTILIZE GRASSES, MEADOWS, AND POLLINATOR HABITATS FOR MOST OF THE COVER, WITH RUNOFF FLOWING OFF OF THE SOLAR PANELS INTO THE GRASSES.
- THE TREE TURNAROUNDS AND EQUIPMENT PADS WILL BE TREATED VIA NON-ROOF DISCONNECT.

OWNER

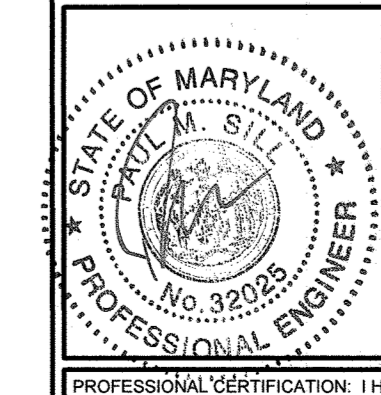
MHGH&S LLC
13300 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR.
443-936-2402
GFSJR17@GMAIL.COM

DEVELOPER

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110 PHOENIXVILLE PIKE
MALVERN, PA 19355
C/O REED WILLS
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REED.WILLS@SUNEASTPOWER.COM
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COVER SHEET
MHGH&S SOLAR FACILITY
13300 FREDERICK ROAD

TAX MAP 15 GRID 3
3RD ELECTION DISTRICT
PARCEL 146
HOWARD COUNTY, MARYLAND



SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

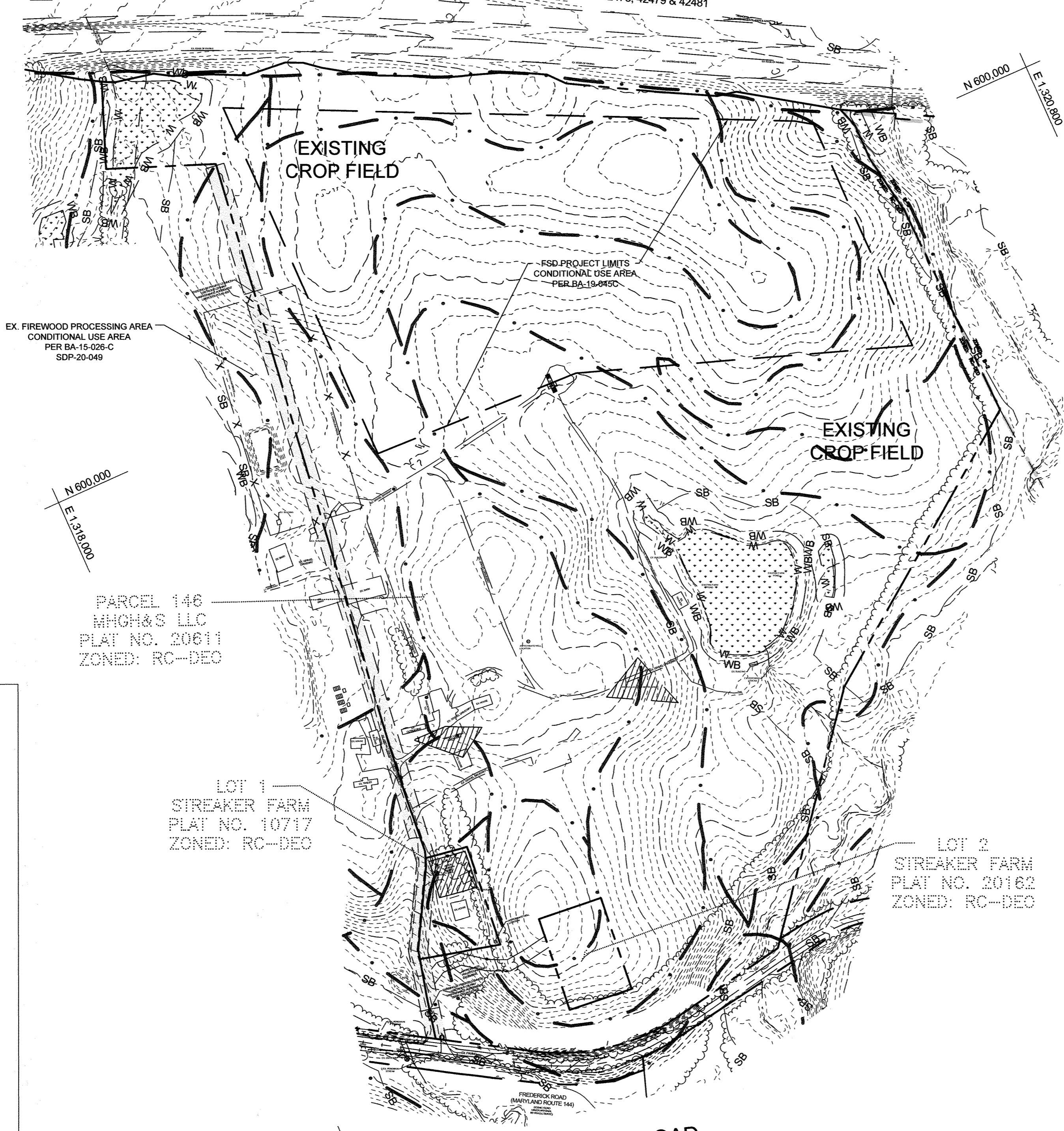
DESIGN BY: PS
DRAWN BY: TB
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MAY 6, 2021
PROJECT #: 19-044
SHEET #: 1 of 11

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. 32025, EXPIRATION DATE: JUNE 30, 2021.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION *[Signature]* DATE: 6/14/21
CHIEF, DIVISION OF LAND DEVELOPMENT *[Signature]* DATE: 6/14/21

BALTIMORE NATIONAL PIKE
(INTERSTATE 70/U.S. ROUTE 40)

PRINCIPAL ARTERIAL
SHA PLATS NO. 42478, 42479 & 42481



LEGEND

- EXISTING CONTOUR
- EXISTING TREELINE
- EXISTING SPECIMEN TREE
- EXISTING WETLAND
- EXISTING WETLAND BUFFER
- EXISTING STREAM
- EXISTING STREAM BUFFER

SLOPES LEGEND

- MODERATE SLOPES (15% TO 25%)
- STEEP SLOPES (OVER 25%)

NOTE: SLOPES SHOWN ARE THOSE CONTAINED WITHIN THE DEVELOPMENT AREA.

Existing Condition/Simplified FSD Narrative

The subject property is located at 13266 and 13300 Frederick Road in the West Friendship section of Howard County, Maryland. This property encompasses approximately 84.2 acres of land that is zoned RC-DEO. The surrounding land uses include low density residential, agricultural land, forest and Interstate 70.

The subject property includes a mix of uses that include residential, crop land, barns, firewood processing facility, forest and wetland/stream resources. The residential uses are concentrated in the southwestern portion of the site. Two homes and associated outbuildings are present in this area.

The crop fields have been used corn and soybean production in recent years. The majority of the property has been used for crop production. A portion of the crop area had previously been used for firewood production. This activity has been removed from the southern end of the site and is now confined within a designated Firewood Processing Area that straddles the western edge of the property. This area has been created within a former crop field. The facility includes storage of uncut timber, cut firewood and associated processing machinery and equipment. The facility straddles the property boundary and extends onto the property to the west.

The forest on the property occurs on steep slopes in the southern edge of the site. The eastern boundary of the property abuts offsite forest that is part of a riparian valley but the forest does not extend into the site. A hedgerow separates the property from the I-70 right of way and a riparian hedgerow is present in the far northwestern corner of the site. No specimen trees were observed on the property.

The forest on the site is dominated by a mixed oak/tulip poplar community that includes tulip poplar, white oak, black oak, red maple, black cherry, sycamore, and american beech. The forest is narrow and impacted by invasive species including multiflora rose, Japanese honeysuckle, Oriental bittersweet, Japanese barberry, and Autumn olive.

No forest or specimen trees are present within the project limits.

A second order stream flows just off the eastern property boundary. The stream is well incised and supports only limited wetland development. A small wetland finger is present in the north eastern corner of the site. This wetland does not extend onto the property, but its buffer does. A wetland/pond complex is present in the southeastern corner of the site. The pond has been historically created by excavating a basin and construction a berm in a natural stream valley. Outfall from the pond is conveyed to the main channel by a perennial stream channel that is well confined. Additional wetland development was noted along the southern edge of the pond in a former crop field.

Forest Conservation Act Compliance

No forest is present within the project area therefore the afforestation requirements of the FCA will be generated for the project. Per the Forest Conservation Worksheet the afforestation obligation for the site is 6.0 acres. This obligation can be addressed with on or offsite planting/retention, FCA bank credit purchase or, if no other options exist, payment of the County fee-in-lieu.

FSD NOTES:

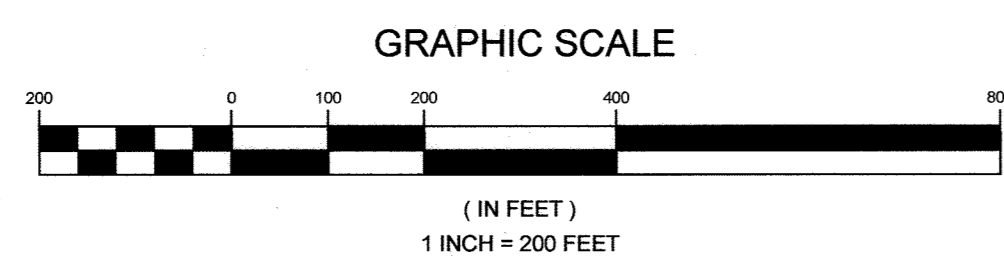
1. The FSD and wetland delineation have been prepared for the proposed project area.
2. No rare, threatened or endangered species or their habitats were observed on the property.
3. No forest is present within the project limits.
4. The wetlands and streams on/adjacent to the site are part of an the Use IV-P watershed of the Middle Patuxent River (02-12-09).
5. No 100 year floodplain is present within the project limits.
6. There are no steep slopes (25% or greater) in the development area.
7. There is no known historic structures, and no known cemeteries on the property.
8. There are no specimen trees, MD State Champion trees or trees 75 percent of state champions on the property.

FOREST CONSERVATION WORKSHEET FOR MHGH&S SOLAR

Net Tract Area		
A. Total (Gross) Tract Area	A =	84.20
B. Area within 100-year Floodplain	B =	0.00
C. Other Deductions (Identify PORTION OF THE SITE OUTSIDE THE PROJECT TO REMAIN IN AG.)	C =	54.16
D. Net Tract Area	D =	30.04
Land Use Category		
Insert the number "1" under the appropriate land use (limit to only one entry)		
Resid. Rural LD	Resid. Rural MD	Resid. Suburban
Inst./Linear	Retail/Office	Mixed Use/PUD
1	0	0
E. Afforestation Threshold (Net Tract Area x 20%)	E =	6.00
F. Reforestation Threshold (Net Tract Area x 50%)	F =	15.00
Existing Forest Cover		
G. Existing Forest Cover within the Net Tract Area	G =	0.00
H. Area of Forest above Afforestation Threshold	H =	0.00
I. Area of Forest above Reforestation Threshold	I =	0.00
Break Even Point		
J. Break Even Point	J =	0.00
K. Forest Clearing Permitted without Mitigation	K =	0.00
Proposed Forest Clearing		
L. Total Area of Forest to be Cleared	L =	0.00
M. Total Area of Forest to be Retained	M =	0.00
Planting Requirements Inside Watershed		
N. Reforestation for Clearing above the Reforestation Threshold	N =	0.00
P. Reforestation for Clearing below the Reforestation Threshold	P =	0.00
Q. Credit for Retention above the Reforestation Threshold	Q =	0.00
R. Total Reforestation Required	R =	0.00
S. Total Afforestation Required	S =	6.00
T. Total Reforestation and Afforestation Requirement	T =	6.00
U. 75% of Total Obligation (Retention + Planting)	U =	4.50
V. Planting Required Onsite to meet 75% Obligation	V =	4.50
Planting Requirements Outside Watershed		
W. Total Planting within Development Site Watershed	W =	6.00
X. Total Afforestation Required	X =	6.00
Y. Remaining Planting within Watershed for Reforestation Credit	Y =	0.00
Z. Reforestation for Clearing above the Reforestation Threshold	Z =	0.00
AA. Reforestation for Clearing below the Reforestation Threshold	AA =	0.00
BB. Credit for Retention above the Reforestation Threshold	BB =	0.00
CC. Total Reforestation Required	CC =	0.00
DD. Total Afforestation and Reforestation Requirement	DD =	6.00

Date: _____

PLAN VIEW
SCALE: 1"=200'



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION
CHIEF, DIVISION OF LAND DEVELOPMENT

STATE OF MARYLAND
Professional Seal for Joanne Carey, RLA 4148, MD DNR Qualified Professional.

Eco-Science Professionals, Inc. Consulting Ecologists
P.O. Box 5906 Glen Arm, Maryland 21057 Telephone (410) 832-2480 Fax (410) 832-2488

MD DNR Qualified Professional
USACE Wetland Delineator
Certificate # W070300969442

EXISTING CONDITIONS AND FOREST STAND & SLOPE DELINEATION PLAN
MHGH&S SOLAR FACILITY
13300 FREDERICK ROAD
TAX MAP 15 GRID 3
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

	16005 Frederick Road, 2nd Floor Woodbine, Maryland 21797 Phone: 443.325.5076 Fax: 410.696.2022 Email: info@sillengineering.com Civil Engineering for Land Development	DESIGN BY: PS DRAWN BY: TB CHECKED BY: PS SCALE: AS SHOWN DATE: MAY 6, 2021 PROJECT #: 19-044 SHEET #: 2 of 11
	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. 32025, EXPIRATION DATE: JUNE 20, 2021.	

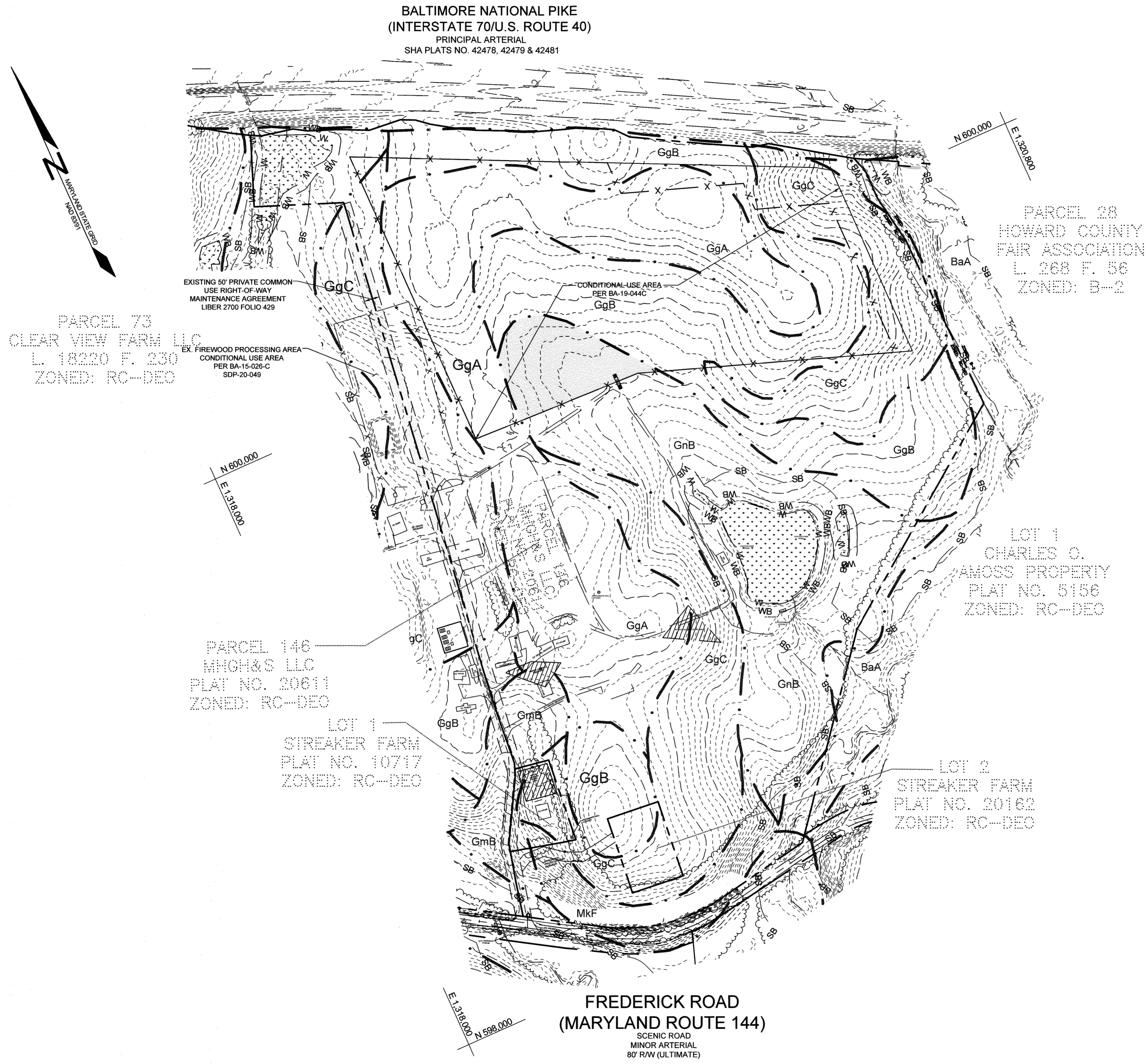
SOILS LEGEND

'B'	
'C'	

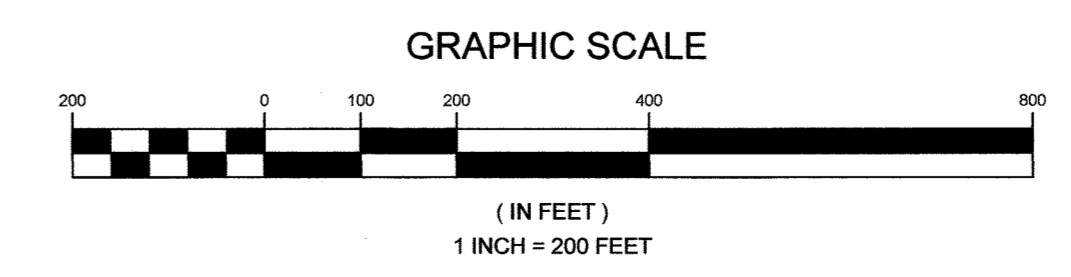
NOTE: SOILS SHOWN ARE THOSE CONTAINED WITHIN THE DEVELOPMENT AREA.

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.37
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	0.37
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.37
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.43
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	0.55
GhB	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	0.49
MmD	MANOR LOAM, 15 TO 25% SLOPES	B	0.32
Hg	HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	B/D	0.43
MkF	MANOR-BRINKLOW COMPLEX, 25 TO 65 PERCENT SLOPES, VERY ROCKY	B	0.32

NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY.
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.



PLAN VIEW
 SCALE: 1"=200'



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 CHIEF, DIVISION OF LAND DEVELOPMENT

DATE: 6/14/21
 DATE: 6/14/21

OWNER
 MHGH&S LLC
 13300 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-334-2422
 GFSJR17@GMAIL.COM

DEVELOPER
 SUNEAST FRIENDSHIP SOLAR, LLC
 110 PHOENIXVILLE PIKE
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 C/O REED WILLS
 302-540-2896
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SOILS MAP
MHGH&S SOLAR FACILITY
 13300 FREDERICK ROAD

TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT

PARCEL 146
 HOWARD COUNTY, MARYLAND

DESIGN BY: _____
 DRAWN BY: _____
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MAY 6, 2021
 PROJECT #: 19-044
 SHEET #: 3 of 11

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 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
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 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

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**BALTIMORE NATIONAL PIKE
(INTERSTATE 70/U.S. ROUTE 40)**

PRINCIPAL ARTERIAL
SHA PLATS NO. 42478, 42479 & 42481

**PROPOSED
FOREST CONSERVATION
EASEMENT 'A'
REFORESTATION**
182,962 SF. = 4.20 AC. ±
1:1 PLANTING CREDIT

NOTE: THIS EASEMENT IS SHOWN AS THE
PROPOSED EASEMENT FOR SDP 20-049
**PROPOSED
FOREST CONSERVATION
EASEMENT 'B'
REFORESTATION**
43,560 SF. = 1.00 AC. ±
1:1 PLANTING CREDIT

PROPOSED SOLAR ARRAY AREA #1
TOTAL: 20.44 AC. ±
THIS SHEET: 9.72 AC. ±
PROPOSED FENCED AREA
TOTAL: 22.54 AC. ±
THIS SHEET: 10.30 AC. ±

NON-ROOFTOP DISCONNECT #1
AREA = 84,356 SF
Tc = 7.2 MINUTES

NON-ROOFTOP DISCONNECT #2
AREA = 47,430 SF
Tc = 12 MINUTES

NON-ROOFTOP DISCONNECT #7
AREA = 603,794 SF
Tc = 13.2 MINUTES

NON-ROOFTOP DISCONNECT #8
AREA = 45,721 SF
Tc = 9 MINUTES

EXISTING 50' PRIVATE COMMON
USE RIGHT-OF-WAY
MAINTENANCE AGREEMENT
LIBER 2700 FOLIO 429

EX. FIREWOOD PROCESSING AREA
CONDITIONAL USE AREA
PER BA-15-025-C
SDP-20-049

LEGEND

- EXISTING GIS CONTOUR ——— 382
- EXISTING FIELD RUN CONTOUR ——— 382
- PROPOSED CONTOUR ——— 382
- EXISTING SPOT ELEVATION ——— 382.3
- PROPOSED SPOT ELEVATION ——— 382.3
- DIRECTION OF FLOW ———
- EXISTING TREELINE ———
- PROPOSED TREELINE ———
- EXISTING WETLAND ——— W
- EXISTING 25' WETLAND BUFFER ——— WB
- EXISTING STREAM ———
- EXISTING 100' STREAM BUFFER ——— SB
- EXISTING ZONING BOUNDARY ———
- PROPOSED SOLAR PANELS ———
- PROPOSED 7' HIGH CHAIN LINK SECURITY FENCE (NO BARBED WIRE) ——— X X
- PROPOSED LEVEL SPREADER ——— 60 LF
- PROPOSED UNDERGROUND BGE ELECTRIC WIRE ———
- PROPOSED PERMANENT SWALE ———
- PROPOSED GATE ———
- SILT FENCE ——— SF SF
- SUPER SILT FENCE ——— SSF SSF
- LIMIT OF DISTURBANCE ——— LOD
- STABILIZED CONSTRUCTION ENTRANCE ——— SCE
- PROPOSED DRAINAGE DIVIDE ———
- RIDGELINE OFFSETS (150' & 300') ———
- EDGE FO CHANNEL ———
- PROPOSED NON-ROOFTOP DISCONNECT TREATMENT AREA (N-2) ———
- SLOPES (0-5%) ———
- SLOPES (5-10%) ———

NOTE: SLOPES SHOWN ARE THOSE CONTAINED WITHIN THE SOLAR ARRAY USE AREA

MATCHLINE - SHEET 6

MATCHLINE - SHEET 5

PLAN VIEW
SCALE: 1"=50'

OWNER
MHG&S LLC
13300 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STRECKER, JR.
443-834-2402
GFSJR17@GMAIL.COM

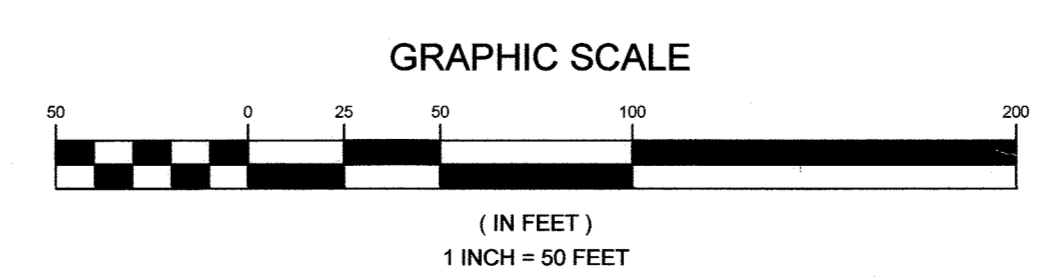
DEVELOPER
SUNEST FRIENDSHIP SOLAR, LLC
110 PHOENIXVILLE PIKE
MALVERN, PA 19355
C/O REED WILLS
302-540-2896
REED.WILLS@SUNESTPOWER.COM
SUNEST FRIENDSHIP ANEM SOLAR, LLC
110 PHOENIXVILLE PIKE
MALVERN, PA 19355
C/O REED WILLS
302-540-2896
REED.WILLS@SUNESTPOWER.COM

**SEDIMENT & EROSION CONTROL AND
STORMWATER MANAGEMENT PLAN
MHG&S SOLAR FACILITY**

13300 FREDERICK ROAD

TAX MAP 15 GRID 3
3RD ELECTION DISTRICT

PARCEL 146
HOWARD COUNTY, MARYLAND



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 6/14/21
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 5/17/21



**SILL
ENGINEERING
GROUP, LLC**
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: TB
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MAY 6, 2021
PROJECT #: 19-044
SHEET #: 4 of 11

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. 32025. EXPIRATION DATE: JUNE 20, 2021.

BALTIMORE NATIONAL PIKE
(INTERSTATE 70/U.S. ROUTE 40)

PRINCIPAL ARTERIAL
SHA PLATS NO. 42478, 42479 & 42481

PROPOSED
FOREST CONSERVATION
EASEMENT 'A'
REFORESTATION TOTAL:
TOTAL: 182,952.00 SF. = 4.20 AC.±
THIS SHEET: 78,843.60 SF. = 1.81 AC.±
1:1 PLANTING CREDIT

NON-ROOFTOP DISCONNECT #2
AREA = 47,480 SF
Tc = 12 MINUTES

NON-ROOFTOP DISCONNECT #3
AREA = 3,773 SF
Tc = 9 MINUTES

NON-ROOFTOP DISCONNECT #4
AREA = 32,493 SF
Tc = 9.6 MINUTES

NON-ROOFTOP DISCONNECT #7
AREA = 801,794 SF
Tc = 13.2 MINUTES

NON-ROOFTOP DISCONNECT #5
AREA = 58,065 SF
Tc = 10.8 MINUTES

NON-ROOFTOP DISCONNECT #6
AREA = 29,150 SF
Tc = 10.8 MINUTES

PROPOSED SOLAR ARRAY AREA #1
TOTAL 20.44 AC.±
THIS SHEET 7.13 AC.±
PROPOSED FENCED AREA
TOTAL 22.54 AC.±
THIS SHEET 7.63 AC.±

MATCHLINE - SHEET 4

MATCHLINE - SHEET 7

PLAN VIEW
SCALE: 1"=50'

OWNER
MHG&S LLC
13300 ROUTE 144
WEST FRIENDSHIP, MD 21784
GEORGE STREAKER, JR.
443-334-2402
GFSJR17@GMAIL.COM

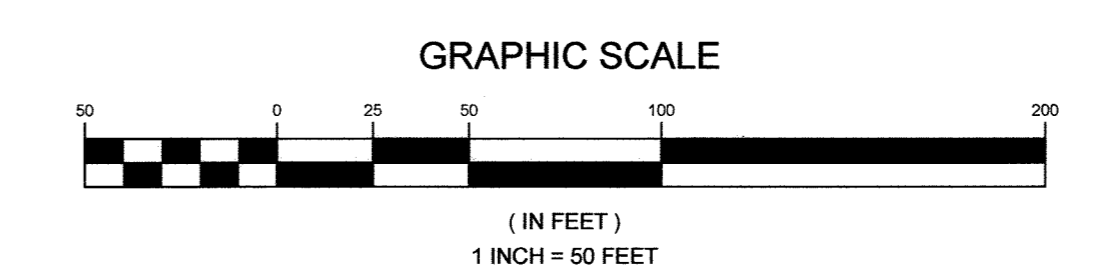
DEVELOPER
SUN-EAST FRIENDSHIP SOLAR, LLC
110 PHOENIXVILLE PIKE
MALVERN, PA 19355
C/O REED WILLS
302-540-2696
REED.WILLS@SUN-EASTPOWER.COM

SUN-EAST FRIENDSHIP ANEM SOLAR, LLC
110 PHOENIXVILLE PIKE
MALVERN, PA 19355
C/O REED WILLS
302-540-2696
REED.WILLS@SUN-EASTPOWER.COM

SEDIMENT & EROSION CONTROL AND
STORMWATER MANAGEMENT PLAN
MHG&S SOLAR FACILITY
13300 FREDERICK ROAD

TAX MAP 15 GRID 3
3RD ELECTION DISTRICT
PARCEL 146
HOWARD COUNTY, MARYLAND

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 6/14/21
DATE: 5/17/21



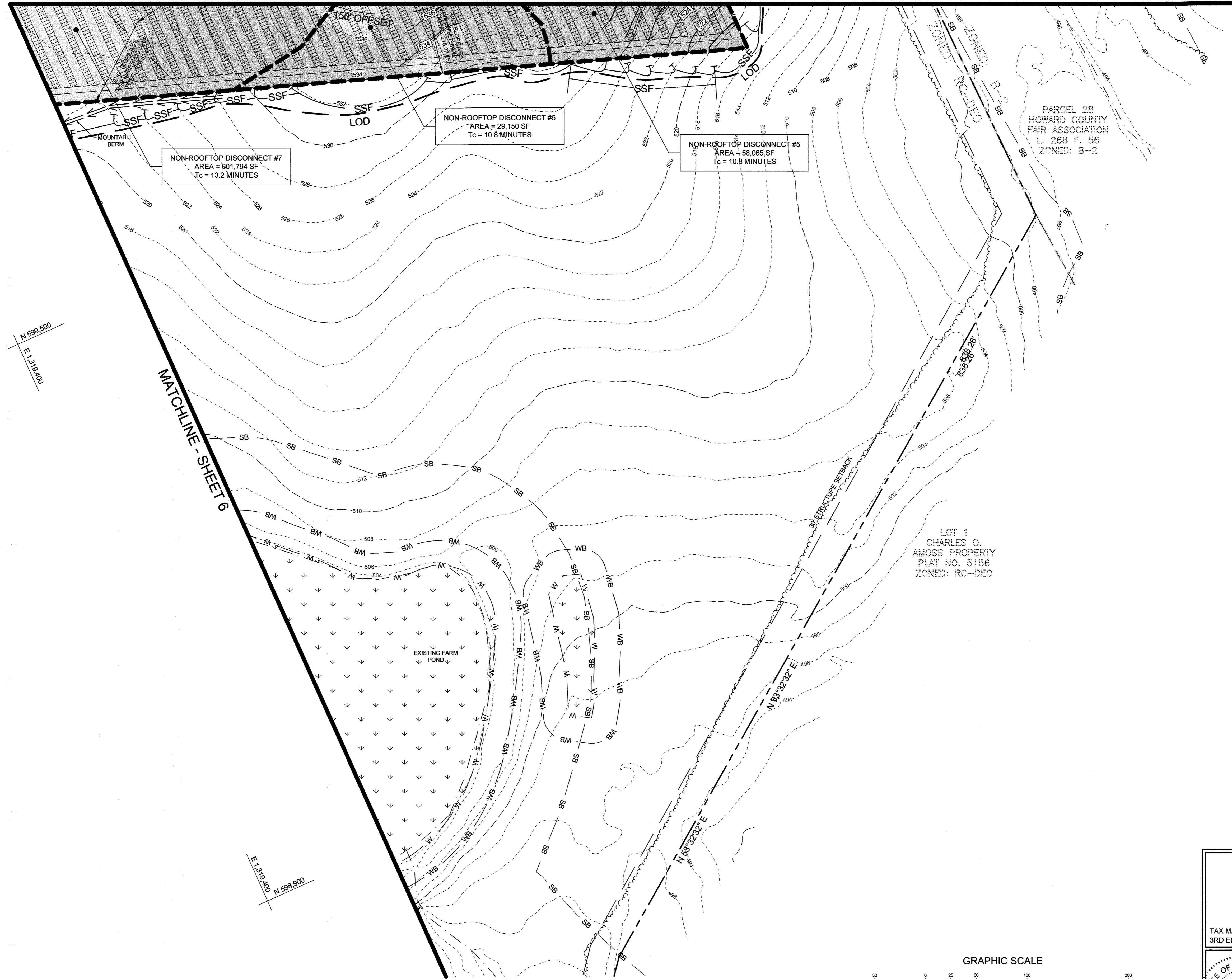
SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: TB
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MAY 6, 2021
PROJECT #: 19-044
SHEET #: 5 of 11

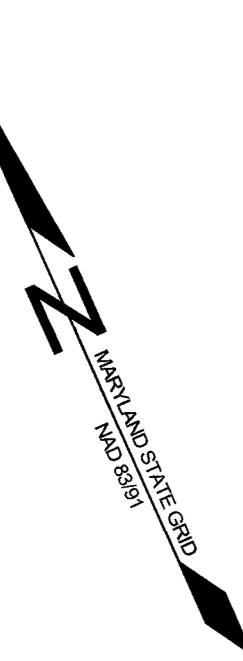
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2021.

PROPOSED SOLAR ARRAY AREA #1
 TOTAL: 20.44 AC.±
 THIS SHEET: 0.89 AC.±
 PROPOSED FENCED AREA
 TOTAL: 22.54 AC.±
 THIS SHEET: 1.16 AC.±

MATCHLINE - SHEET 5



MATCHLINE - SHEET 6



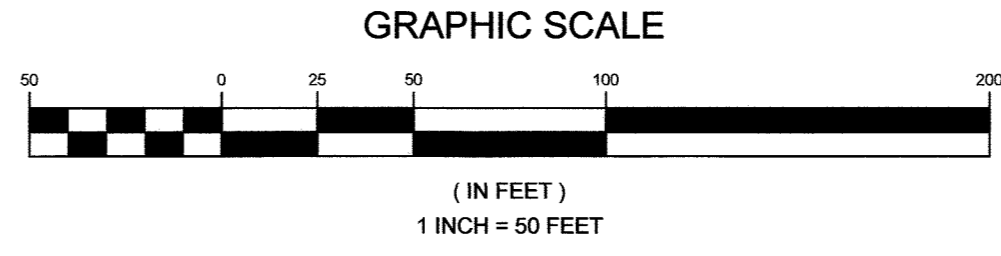
N 599,500
E 1,319,400

N 599,500
E 1,320,400

E 1,319,400
N 598,900

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 6/1/21
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 6/1/21

PLAN VIEW
SCALE: 1"=50'



OWNER
 MHG&S LLC
 13300 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-834-2422
 GFSJR17@GMAIL.COM

DEVELOPER
 SUNEAST FRIENDSHIP SOLAR, LLC
 110 PHOENIXVILLE PIKE
 MALVERN, PA 19355
 C/O REED WILLS
 302-540-2696
 REED.WILLS@SUNEASTPOWER.COM

SUNEAST FRIENDSHIP ANEM SOLAR, LLC
 110 PHOENIXVILLE PIKE
 MALVERN, PA 19355
 C/O REED WILLS
 302-540-2696
 REED.WILLS@SUNEASTPOWER.COM

SEDIMENT & EROSION CONTROL AND STORMWATER MANAGEMENT PLAN
MHG&S SOLAR FACILITY
 13300 FREDERICK ROAD

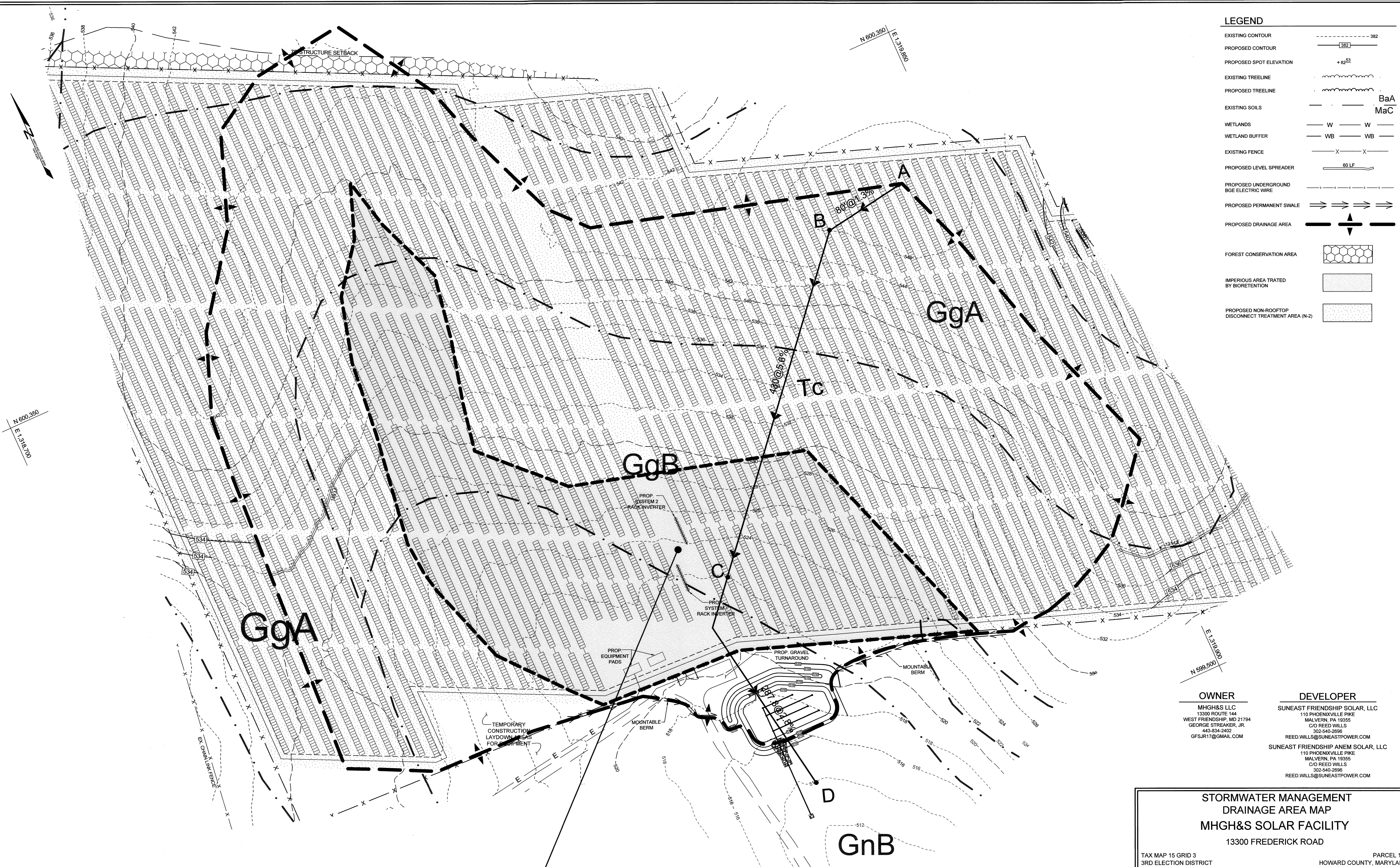
TAX MAP 15 GRID 3
3RD ELECTION DISTRICT

PARCEL 146
HOWARD COUNTY, MARYLAND

SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: PS
 DRAWN BY: TB
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MAY 6, 2021
 PROJECT #: 19-044
 SHEET #: 7 of 11

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. 32025, EXPIRATION DATE: JUNE 20, 2021



LEGEND	
EXISTING CONTOUR	--- 382
PROPOSED CONTOUR	— 382
PROPOSED SPOT ELEVATION	+ 82.53
EXISTING TREELINE	~~~~~
PROPOSED TREELINE	~~~~~
EXISTING SOILS	--- BaA --- MaC
WETLANDS	--- W --- W
WETLAND BUFFER	--- WB --- WB
EXISTING FENCE	--- X --- X
PROPOSED LEVEL SPREADER	--- 60 LF ---
PROPOSED UNDERGROUND BGE ELECTRIC WIRE	--- ---
PROPOSED PERMANENT SWALE	==> ==> ==> ==>
PROPOSED DRAINAGE AREA	--- ↑ ---
FOREST CONSERVATION AREA	~~~~~
IMPERVIOUS AREA TRATED BY BIORETENTION	□
PROPOSED NON-ROOFTOP DISCONNECT TREATMENT AREA (N-2)	□

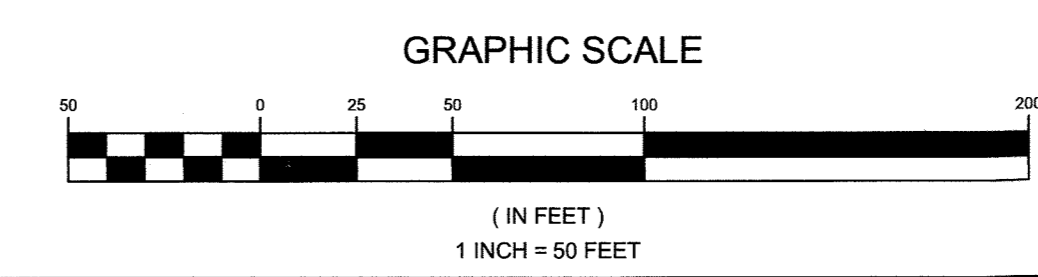
OWNER	DEVELOPER
MHG&S LLC 13300 ROUTE 144 WEST FRIENDSHIP, MD 21794 GEORGE STREAKER, JR. 443-834-2402 GFSJR17@GMAIL.COM	SUNEAAT FRIENDSHIP SOLAR, LLC 110 PHOENIXVILLE PIKE MALVERN, PA 19355 C/O REED WILLS 302-540-2896 REED.WILLS@SUNEAATPOWER.COM
	SUNEAAT FRIENDSHIP ANEM SOLAR, LLC 110 PHOENIXVILLE PIKE MALVERN, PA 19355 C/O REED WILLS 302-540-2896 REED.WILLS@SUNEAATPOWER.COM

**STORMWATER MANAGEMENT
DRAINAGE AREA MAP
MHGH&S SOLAR FACILITY**
13300 FREDERICK ROAD

TAX MAP 15 GRID 3
3RD ELECTION DISTRICT

PARCEL 146
HOWARD COUNTY, MARYLAND

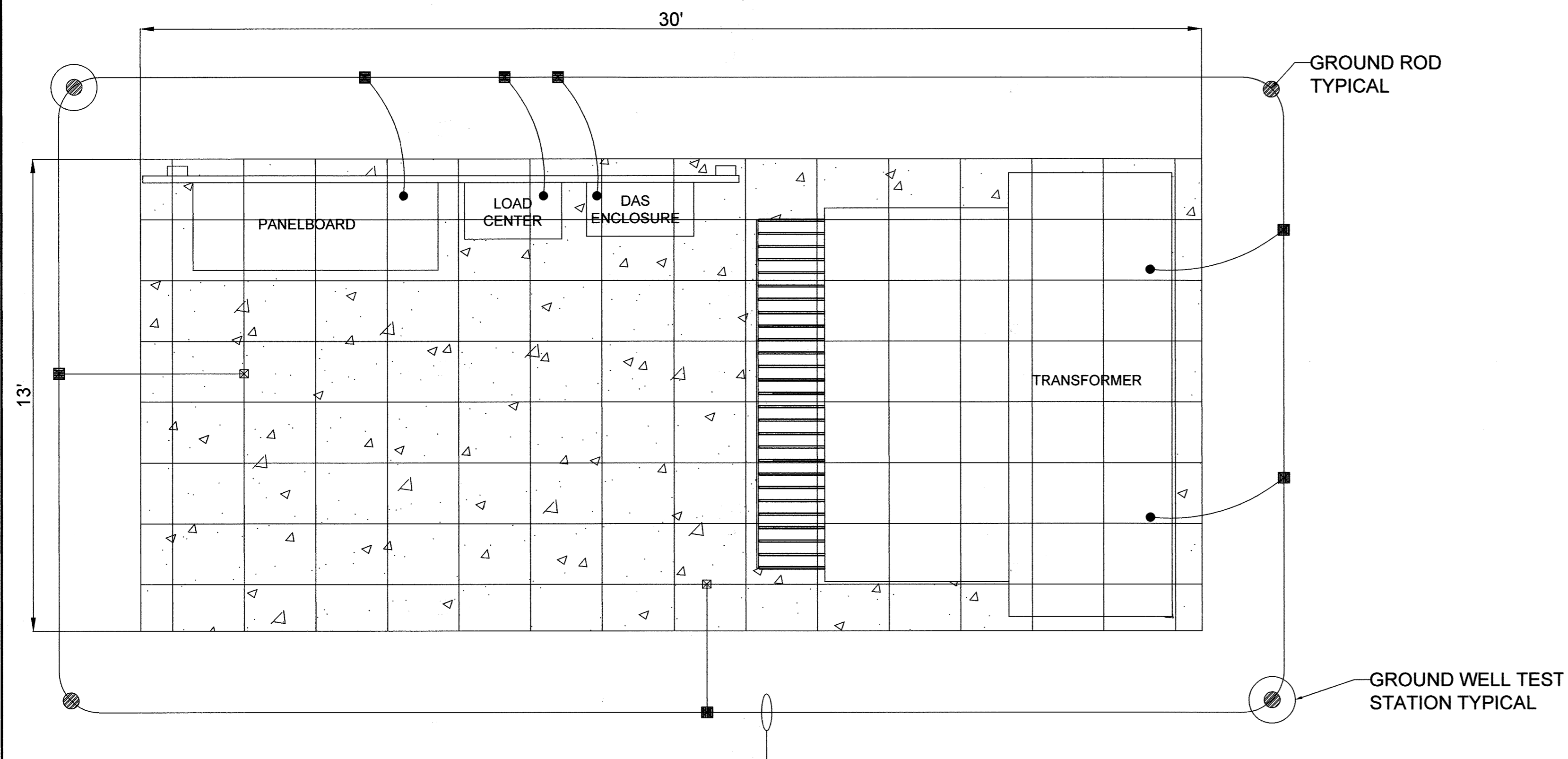
		DESIGN BY: JB DRAWN BY: JB CHECKED BY: PS SCALE: AS SHOWN DATE: MAY 6, 2021 PROJECT #: 19-044 SHEET #: 8 of 11
	16005 Frederick Road, 2nd Floor Woodlawn, Maryland 21797 Phone: 443.325.5076 Fax: 410.696.2022 Email: info@sillengineering.com Civil Engineering for Land Development	
	PROFESSIONAL CERTIFICATION: 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. 32020, EXPIRATION DATE: JUNE 20, 2021.	
	SUNEAST FRIENDSHIP SOLAR, LLC 13300 ROUTE 144 WEST FRIENDSHIP, MD 21794 GEORGE STREAKER, JR. 443-834-2402 GFSJR17@GMAIL.COM	
	SUNEAST FRIENDSHIP ANEM SOLAR, LLC 110 PHOENIXVILLE PIKE MALVERN, PA 19355 C/O REED WILLS 302-540-2896 REED.WILLS@SUNEAATPOWER.COM	



A = 14.78 Ac
Pe = 1.0'
Z = RC-DEO
P = 1%
'B' SOIL

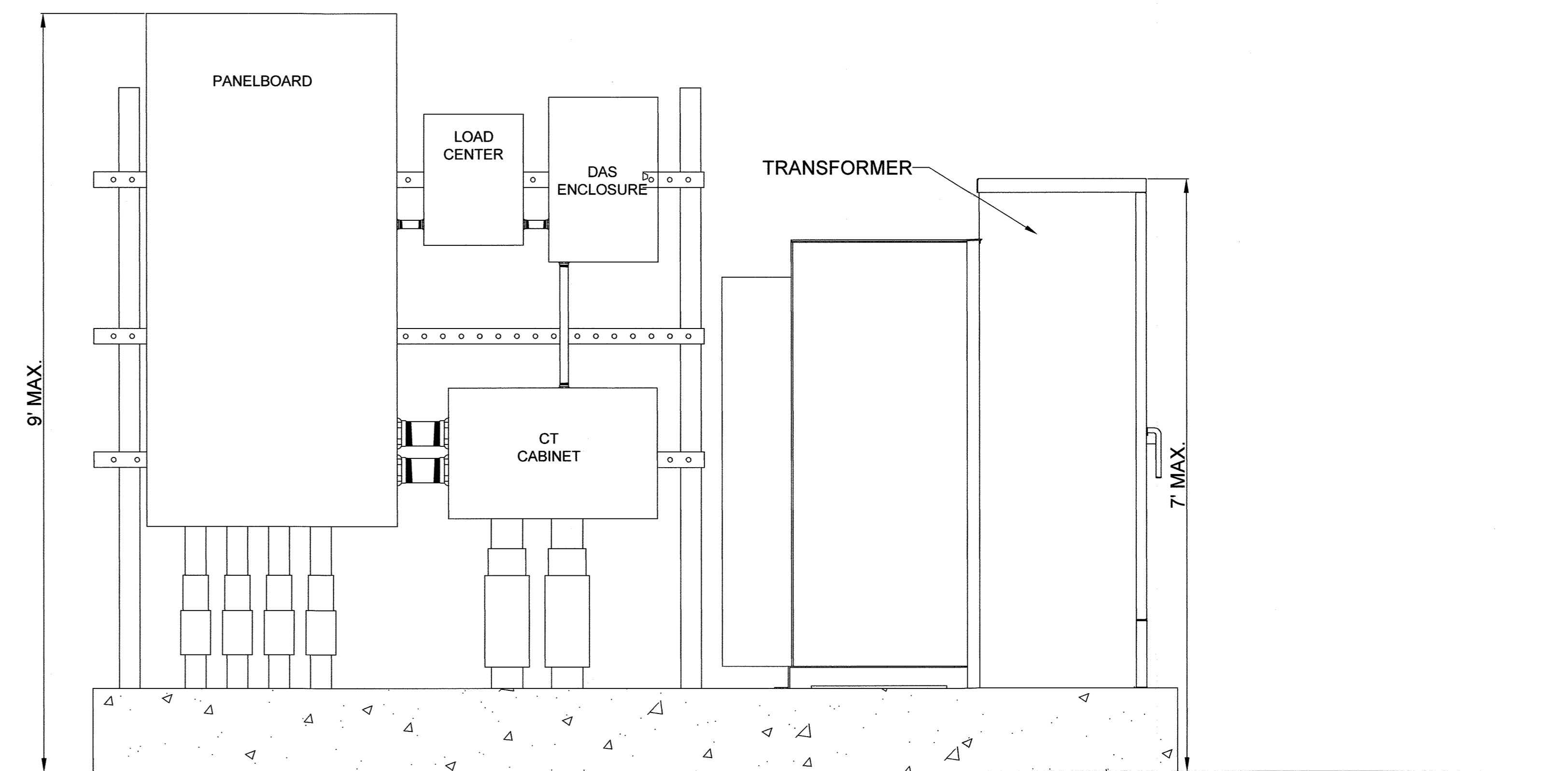
PLAN VIEW
SCALE: 1"=50'

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 6-14-21
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 6/14/21



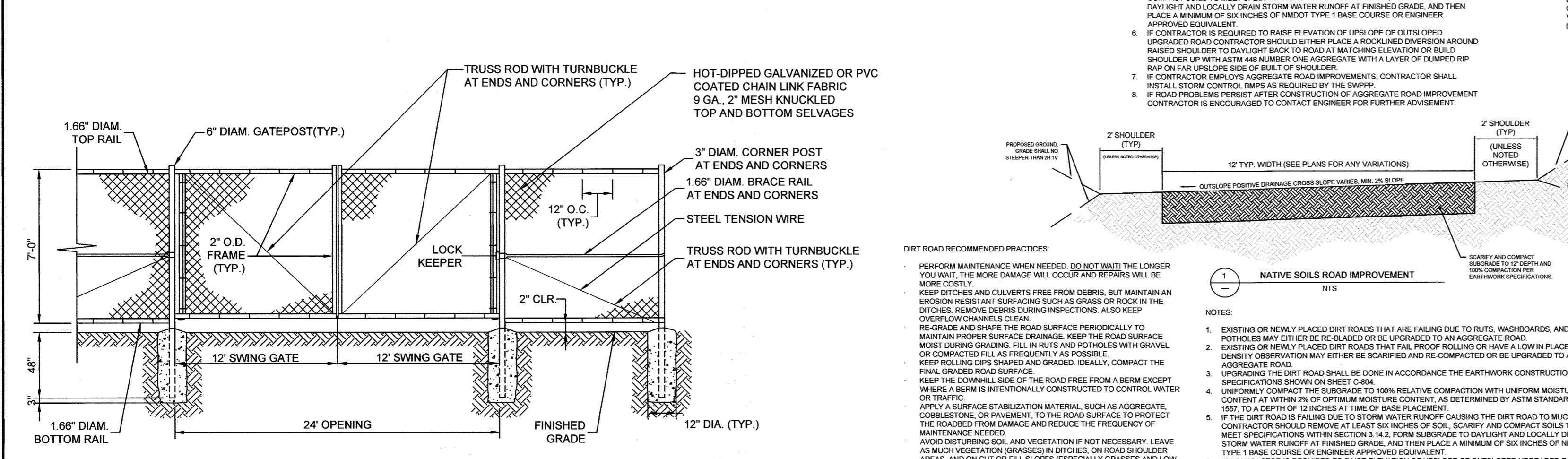
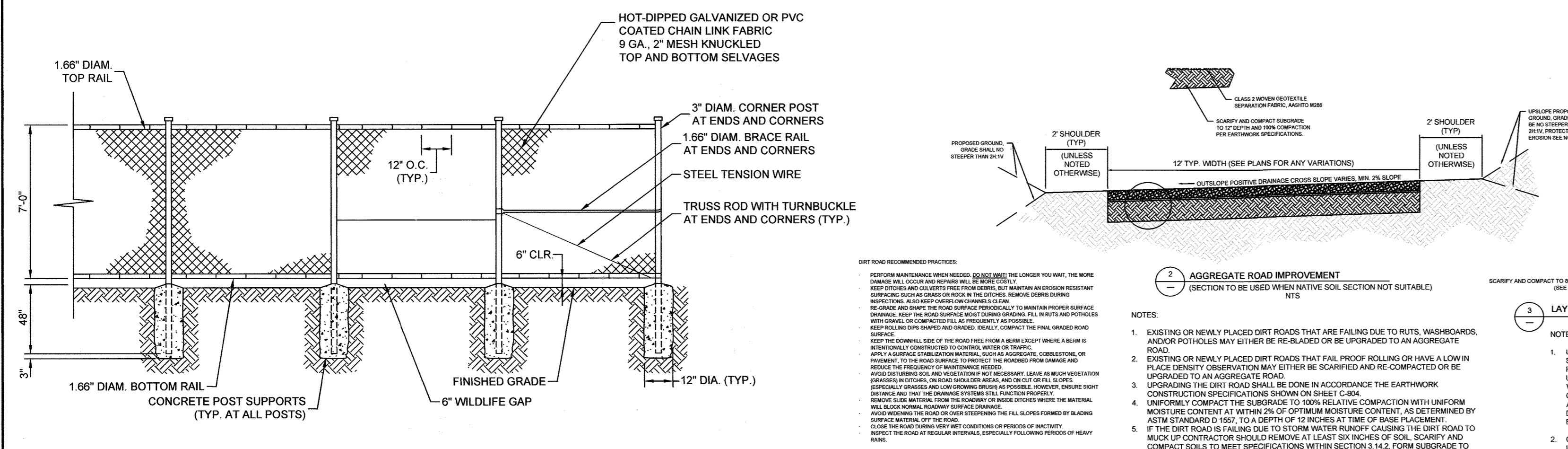
- NOTES:**
1. DETAIL FOR REFERENCE ONLY.
 2. FINAL DESIGN MAY BE ADJUSTED PRIOR TO CONSTRUCTION.

EQUIPMENT PAD PLAN VIEW
NOT TO SCALE

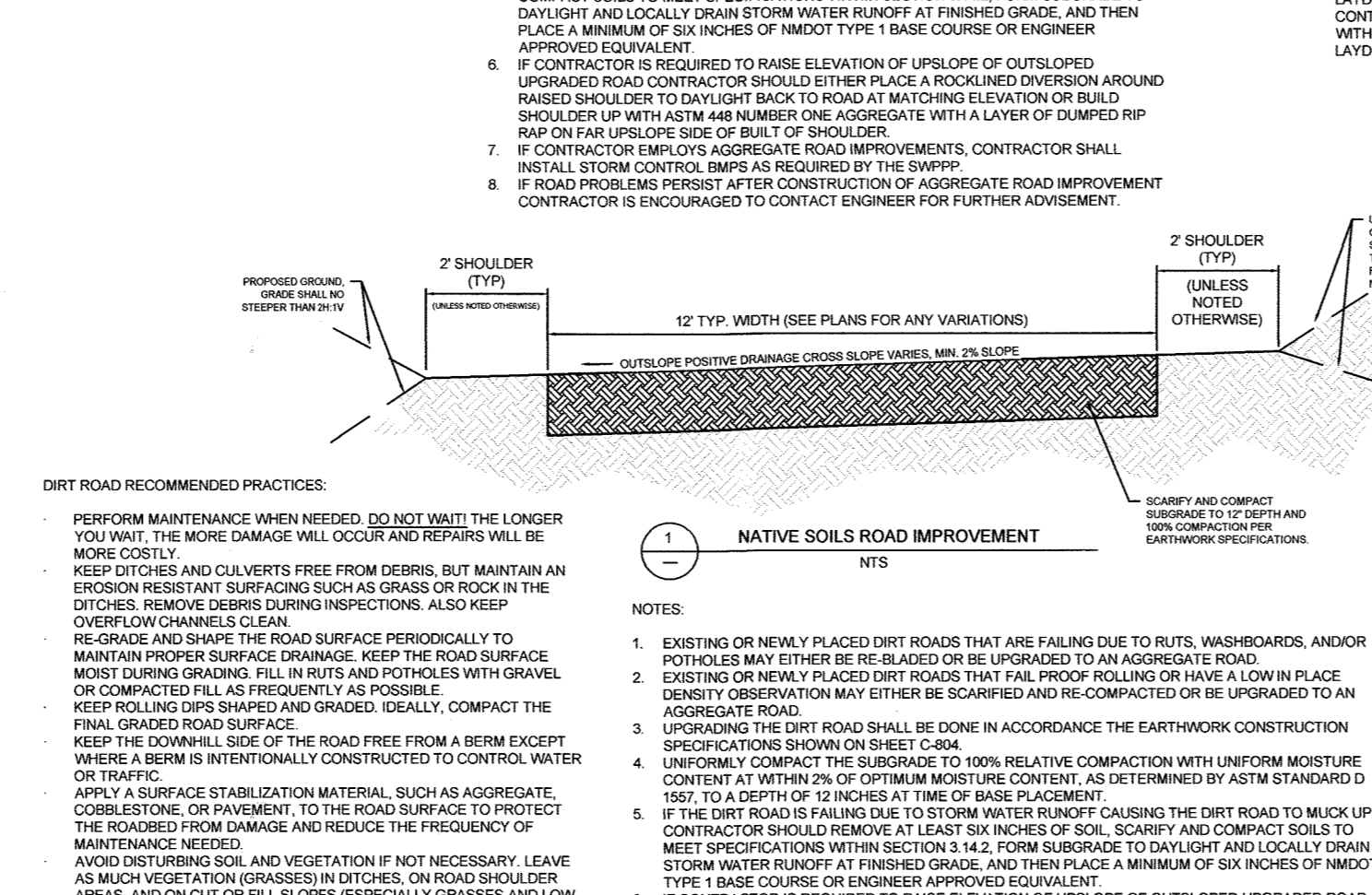
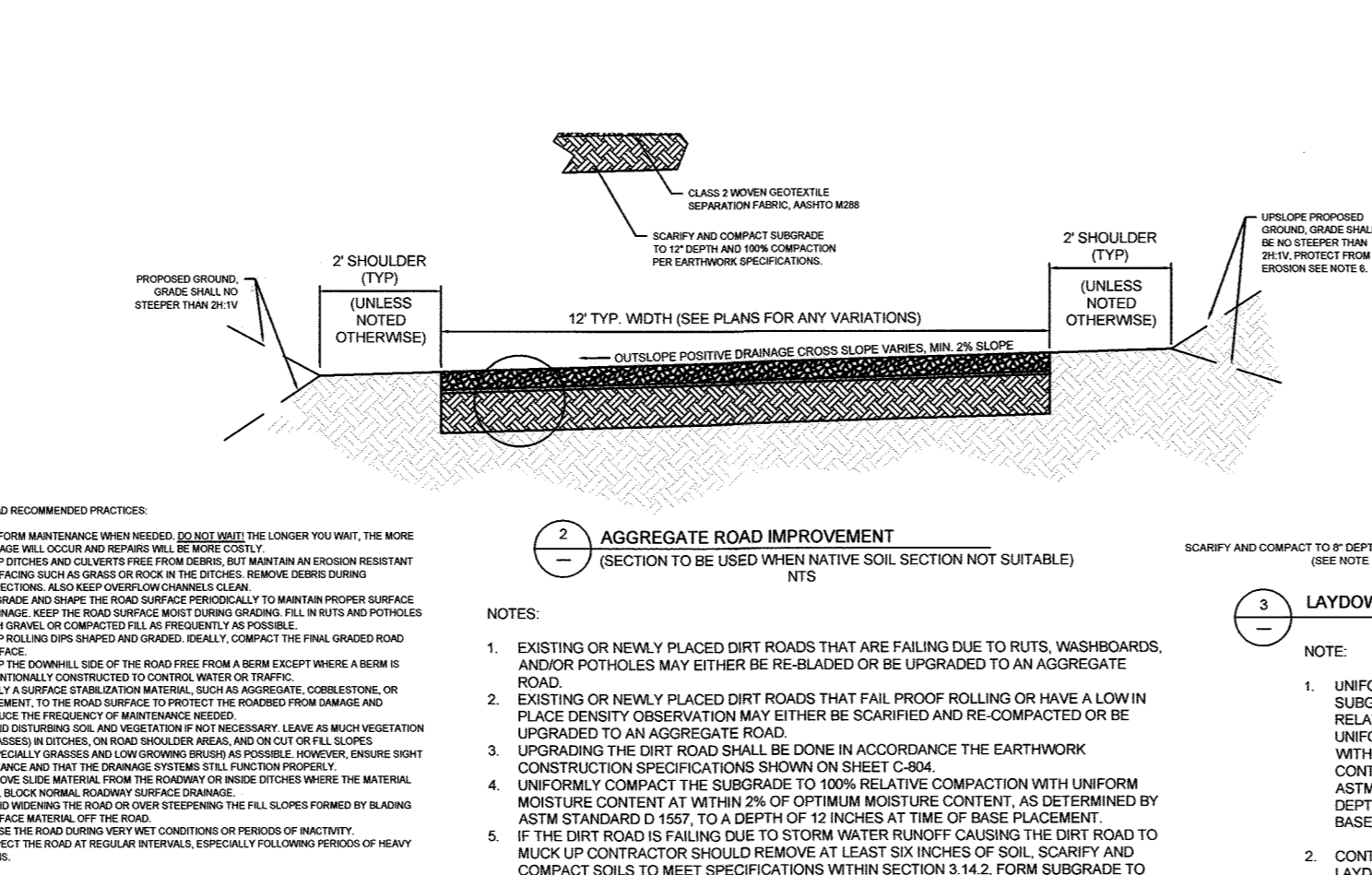


- NOTES:**
1. DETAIL FOR REFERENCE ONLY.
 2. FINAL DESIGN MAY BE ADJUSTED PRIOR TO CONSTRUCTION.

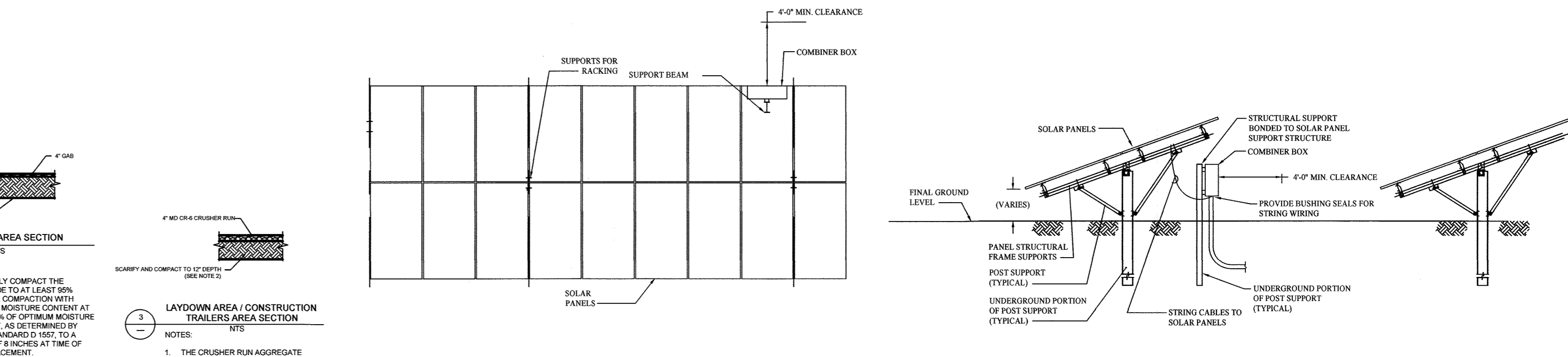
EQUIPMENT PAD ELEVATION VIEW
NOT TO SCALE



VEHICULAR GATE DETAIL
NOT TO SCALE

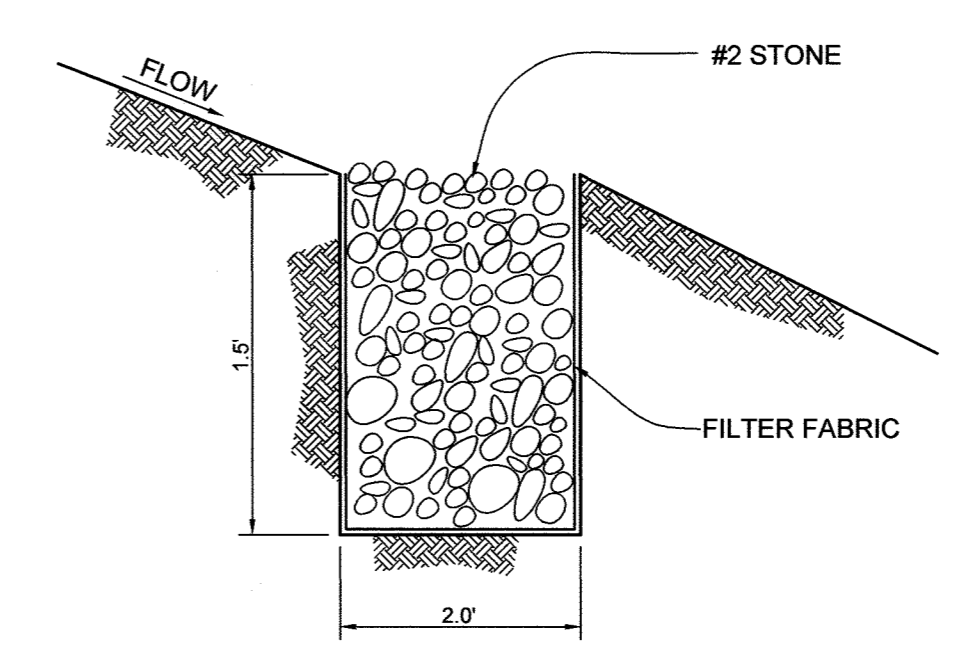


AGGREGATE ROAD IMPROVEMENT
NOT TO SCALE



- NOTES:**
1. PROVIDE EDGE GUARD OR ADEQUATE PROTECTION FOR PV WIRES AND SHARP EDGES OF RACKING SYSTEM.
 2. PROVIDE DRIP LOOP AND SUPPORT.
 3. DETAIL FOR REFERENCE ONLY.
 4. FINAL DESIGN MAY BE ADJUSTED PRIOR TO CONSTRUCTION.

SOLAR PANEL DETAIL
NOT TO SCALE



TYPICAL GRAVEL LEVEL SPREADER
NOT TO SCALE

OWNER
MHG&S LLC
13300 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STRECKER, JR.
443-834-2402
GFSJR17@GMAIL.COM

DEVELOPER
SUNEA5T FRIENDSHIP SOLAR, LLC
110 PHOENIXVILLE PIKE
MALVERN, PA 19355
C/O REED WILLS
302-540-2696
REED.WILLS@SUNEA5TPOWER.COM

SUNEA5T FRIENDSHIP ANEM SOLAR, LLC
110 PHOENIXVILLE PIKE
MALVERN, PA 19355
C/O REED WILLS
302-540-2696
REED.WILLS@SUNEA5TPOWER.COM

SITE DETAILS
MHG&S SOLAR FACILITY
13300 FREDERICK ROAD
PARCEL 146
TAX MAP 15 GRID 3
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: TB
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MAY 6, 2021
PROJECT #: 19-044
SHEET #: 9 of 11

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION
CHIEF, DIVISION OF LAND DEVELOPMENT

DATE: 6/14/21
DATE: 5/17/21

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. 30261, EXPIRATION DATE: JUNE 30, 2021

BALTIMORE NATIONAL PIKE
(INTERSTATE 70/U.S. ROUTE 40)

PRINCIPAL ARTERIAL
SHA PLATS NO. 42478, 42479 & 42481

LANDSCAPE PERIMETER 1



LEGEND

EXISTING CONTOUR GIS	---	382
EXISTING CONTOUR FIELD RUN	---	382
PROPOSED CONTOUR	---	382
EXISTING SPOT ELEVATION	●	+ 82.53
PROPOSED SPOT ELEVATION	●	+ 82.53
DIRECTION OF FLOW	→	
EXISTING TREELINE	~	
PROPOSED TREELINE	~	
EXISTING WETLAND	W	
EXISTING 25' WETLAND BUFFER	WB	
EXISTING STREAM	---	
EXISTING 100' STREAM BUFFER	SB	
PROPOSED FENCE LINE	X X	
PROPOSED UTILITY	E E E	
EXISTING SPECIMEN TREE	ST#6	
EXISTING SPECIMEN TREE TO BE REMOVED	X	
PROPOSED SOLAR PANELS	▭	
PROPOSED GATE	W	
PROPOSED OVERHEAD WIRE	OH	
PROPOSED PERMANENT SWALE	==	
LANDSCAPE PERIMETER INDICATOR	LANDSCAPE PER. 2	
EXISTING VEGETATION INDICATOR	286 L.F. EXISTING VEGETATION	
PROPOSED EVERGREEN TREES	EO OJ TP	
PROPOSED DECIDUOUS TREES	QR PO CF AC NS CC	

PARCEL 148
HOWARD COUNTY
LAND ASSOCIATION
ZONED B-10

LANDSCAPE PER. 2
CITY OF BALTIMORE
PROJECT 75
PARCEL 148
ZONED B-10

HOWARD COUNTY
LAND ASSOCIATION
ZONED B-10

OWNER
MHG&S LLC
13300 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR.
443-834-2422
GFSJR17@GMAIL.COM

DEVELOPER
SUNEA FRIENDSHIP SOLAR, LLC
110 PHOENIXVILLE PIKE
MALVERN, PA 19355
C/O REED WILLS
302-540-2996
REED.WILLS@SUNEAPOWER.COM

SUNEA FRIENDSHIP ANEM SOLAR, LLC
110 PHOENIXVILLE PIKE
MALVERN, PA 19355
C/O REED WILLS
302-540-2996
REED.WILLS@SUNEAPOWER.COM

LANDSCAPING PLAN
MHG&S SOLAR FACILITY
13300 FREDERICK ROAD

TAX MAP 15 GRID 3
3RD ELECTION DISTRICT

PARCEL 148
HOWARD COUNTY, MARYLAND

SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: JC
DRAWN BY: JC
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MAY 6, 2021
PROJECT #: 19-044
SHEET #: 10 OF 11

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. 32025, EXPIRATION DATE: JUNE 20, 2021

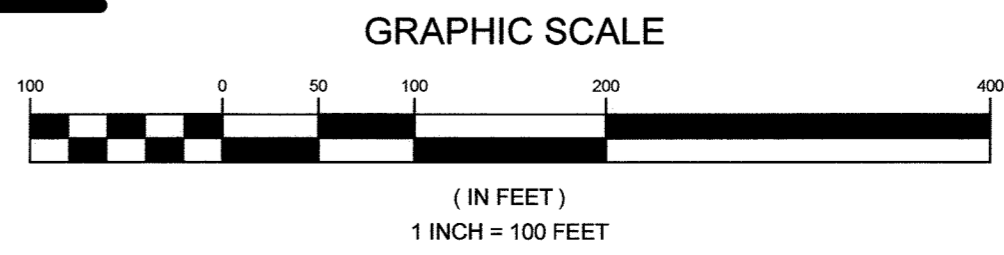
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

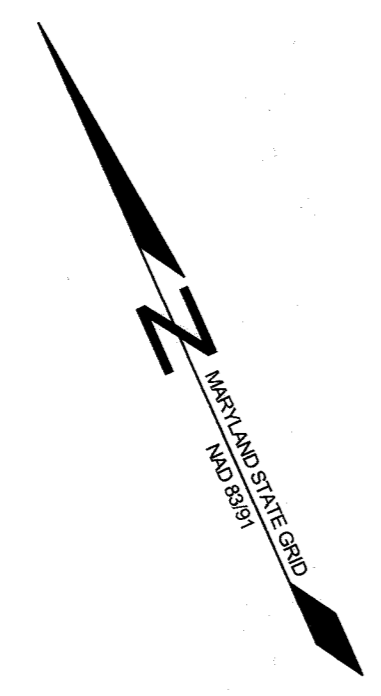
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 6/14/21

CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 5/17/21

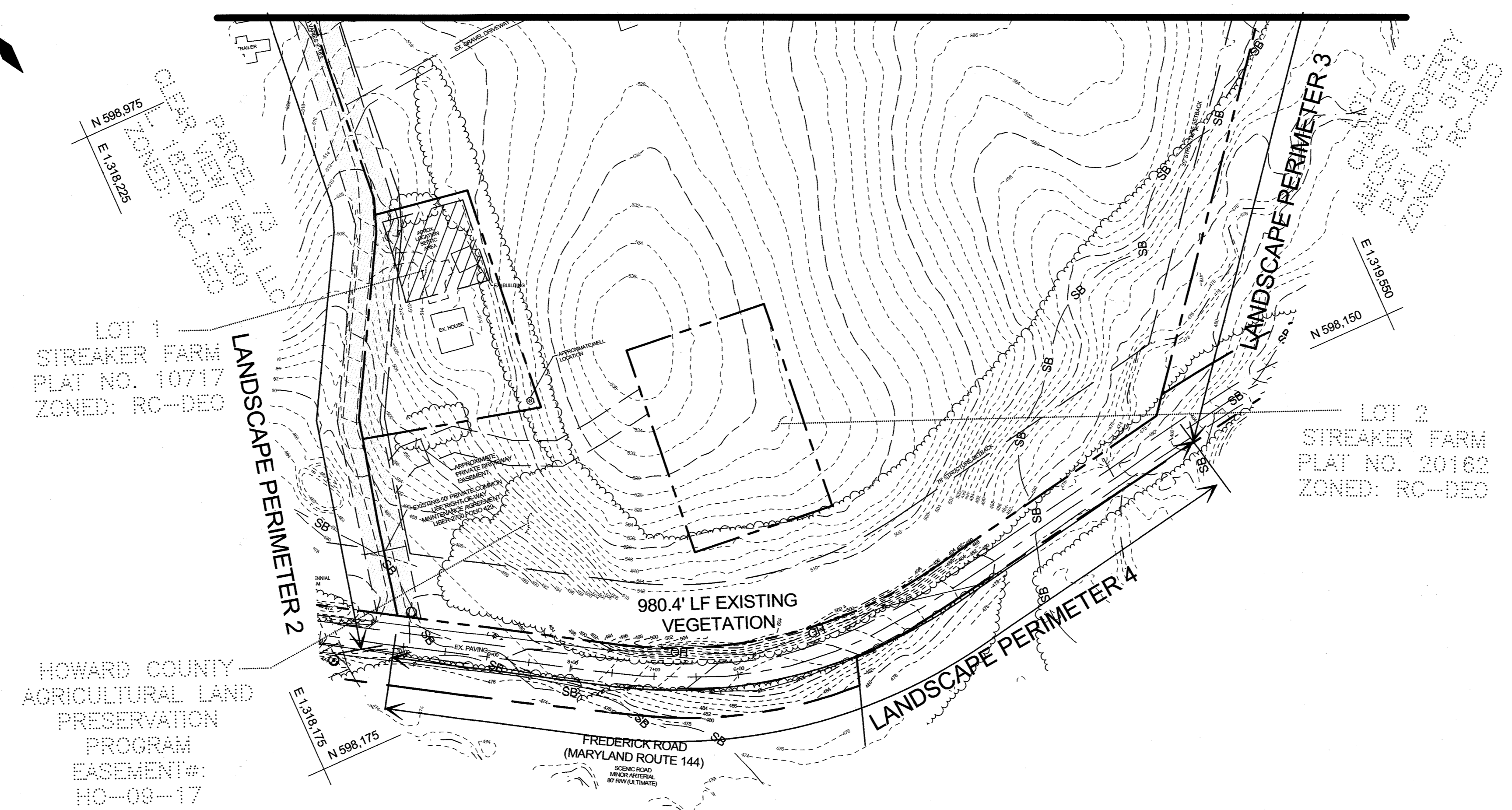
MATCHLINE - SHEET 11

PLAN VIEW
SCALE: 1"=100'





MATCHLINE - SHEET 10



PLAN VIEW
SCALE: 1"=100'

LEGEND

EXISTING TREELINE	
LANDSCAPE PERIMETER INDICATOR	LANDSCAPE PER. 2
EXISTING VEGETATION INDICATOR	286 L.F. EXISTING VEGETATION
PROPOSED EVERGREEN TREE	
PROPOSED DECIDUOUS TREE	
EXISTING CONTOUR GIS	382
EXISTING CONTOUR FIELD RUN	382
PROPOSED CONTOUR	382
EXISTING SPOT ELEVATION	382.3
PROPOSED SPOT ELEVATION	+82.53
DIRECTION OF FLOW	
EXISTING TREELINE	
PROPOSED TREELINE	
EXISTING WETLAND	W
EXISTING 25' WETLAND BUFFER	WB
EXISTING STREAM	
EXISTING 100' STREAM BUFFER	SB
PROPOSED FENCE LINE	X X
PROPOSED UTILITY	
PROPOSED PERMANENT SWALE	
EXISTING SPECIMEN TREE	ST#6
EXISTING SPECIMEN TREE TO BE REMOVED	
PROPOSED SOLAR PANELS	
PROPOSED GATE	

LANDSCAPE PLANT LIST

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	NOTE
SHADE TREES					
PO	16	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2 1/2"-3" CAL.	B & B FULL HEAD
NS	11	NYSSA SYLVATICA	BLACK TUPELO	2 1/2"-3" CAL.	B & B
QR	6	QUERCUS RUBRA	NORTHERN RED OAK	2 1/2" CAL.	B & B
EVERGREEN TREES					
IO	36	ILEX OPACA	AMERICAN HOLLY	5'-6" HT.	B & B, FULL
OJV	100	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6'-8" HT.	B & B, FULL
TP	42	THUJA PLICATA	GREEN GIANT ARBORVITAE	5'-6" HT.	B & B, FULL

**SCHEDULE A
PERIMETER LANDSCAPE EDGE**

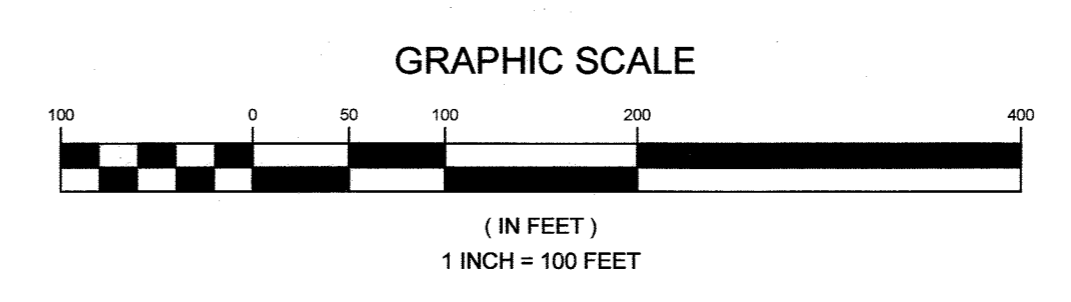
CATEGORY	ADJACENT TO ROADWAYS		ADJACENT TO PERIMETER PROPERTIES	
	1	4	3	2
PERIMETER FRONTAGE DESIGNATION	1724.67(D)	980.4 (D)	2639.05(D)	N/A*
LINEAR FEET OF ROADWAY				
FRONTAGE PERIMETER CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	NO	YES	YES	
REMAINING PERIMETER LENGTH CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET)	NO	NO	NO	
REMAINING PERIMETER LENGTH				
NUMBER OF PLANTS REQUIRED				
SHADE TREES	1:60=29	1:60=0	1:60=3	
EVERGREEN TREES	1:10=173	1:40=0	1:10=14	
SHRUBS	-	-	-	
NUMBER OF PLANTS PROVIDED				
SHADE TREES	1:60=29	1:60=0	1:60=3	
EVERGREEN TREES	1:10=173	1:40=0	1:10=14	
SHRUBS	-	-	-	

PER BA-19-045C, ALL PERIMETERS TO BE A TYPE 'D'
NO PERIMETER PLANTING REQUIRED FOR PERIMETER 2,
SINCE THIS IS A JOINT DEVELOPMENT WITH PARCEL 73,
SDP-18-014.

OWNER
MHGH&S LLC
13300 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR.
443-834-2422
GFSJR17@GMAIL.COM

DEVELOPER
SUNEA FRIENDSHIP SOLAR, LLC
110 PHOENIXVILLE PIKE
MALVERN, PA 19355
C/O REED WILLS
302-540-2698
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SUNEA FRIENDSHIP ANEM SOLAR, LLC
110 PHOENIXVILLE PIKE
MALVERN, PA 19355
C/O REED WILLS
302-540-2698
REED.WILLS@SUNEAPOWER.COM

LANDSCAPING PLAN
MHGH&S SOLAR FACILITY
13300 FREDERICK ROAD
TAX MAP 15 GRID 3
3RD ELECTION DISTRICT
PARCEL 146
HOWARD COUNTY, MARYLAND



APPROVED, HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION, DATE 6/14/21
CHIEF, DIVISION OF LAND DEVELOPMENT, DATE 5/17/21

SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: JC
DRAWN BY: JC
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MAY 6, 2021
PROJECT #: 19-044
SHEET #: 11 of 11

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. 32025, EXPIRATION DATE: JUNE 29, 2021.