

GENERAL NOTES

- SUBJECT PROPERTY ZONED RC-DEO PER 10-06-2013 COMPREHENSIVE ZONING PLAN.
- DEED REFERENCE: LIBER 18220, FOLIO 230
- SUBJECT PROPERTY LOCATED ON FREDERICK ROAD, A SCENIC ROAD.
- SUBJECT PROPERTY IS LOCATED IN THE HOWARD COUNTY LAND PRESERVATION PROGRAM, REFERENCE NUMBER HO-86-05-E.
- PREVIOUS HOWARD COUNTY FILE NUMBERS: F-09-011, F-93-033, ECP-19-039, SDP-20-049, WP-21-098, & BA CASE NUMBERS BA-15-028, BA-19-044, AND BA-19-045.
- PRIVATE WELL AND SEWAGE DISPOSAL AREAS ARE USED WITHIN THIS SITE. THERE ARE NO WELLS OR SEWAGE DISPOSAL AREAS WITHIN THE CONDITIONAL USE AREAS.
- THE BOUNDARY SHOWN IS BASED ON TAX RECORD INFORMATION.
- THE TOPOGRAPHY SHOWN IMMEDIATELY TO THE WEST OF THE EXISTING FIREWOOD PROCESSING AREA AND SURROUNDING THE WETLAND AREA WAS FIELD RUN BY ADCOCK & ASSOCIATES, LLC ON 1/21/2018. THE TOPOGRAPHY ALONG FREDERICK ROAD WAS FIELD RUN BY ADCOCK & ASSOCIATES ON 8/17/2018. THE CONTOURS ARE SHOWN AT TWO-FOOT CONTOUR 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.
- PURSUANT TO SECTION 16.1216, THE DIRECTOR OF THE DEPARTMENT OF PLANNING AND ZONING, DIRECTOR OF THE DEPARTMENT OF RECREATION AND PARKS AND THE ADMINISTRATOR OF THE OFFICE OF COMMUNITY SUSTAINABILITY, CONSIDERED AND APPROVED, THE REQUEST FOR VARIANCE WITH RESPECT TO SECTION 16.1205(a)(3) OF THE FOREST CONSERVATION REGULATIONS. THE PURPOSE IS TO ALLOW THE REMOVAL OF ONE (1) SPECIMEN TREE. THE DIRECTORS DELIBERATED AND APPROVED THE APPLICATION IN A MEETING ON JUNE 17, 2021. APPROVAL OF THE ALTERNATIVE COMPLIANCE OF SECTION 16.1205(a)(3) IS SUBJECT TO THE FOLLOWING CONDITIONS:
 - THE SPECIMEN TREE REMOVAL IS SUBJECT ONLY TO THE REQUESTED TREE, SPECIMEN TREE #3 (ST-3). ANOTHER ALTERNATIVE COMPLIANCE REQUEST MUST BE SUBMITTED TO PROPOSE THE REMOVAL OF ANY ADDITIONAL SPECIMEN TREES ASSOCIATED WITH THE PROJECT. PROVIDE TWO (2) REPLACEMENT TREES A DBH OF AT LEAST 3" ON SITE IN ADDITION TO THE REQUIRED LANDSCAPING IN PLACE OF THE REMOVED TREE AS MITIGATION.
 - THE ALTERNATIVE COMPLIANCE FILE NUMBER, REQUESTED SECTIONS, DECISION DATE AND CONDITIONS OF APPROVAL SHALL BE INDICATED ON THE PLAT AS A GENERAL NOTE.
- THIS PROPERTY IS SUBJECT TO THE HOWARD COUNTY CASE BA-19-045C 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 16.1026 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 APPLICATIONS. THE PETITIONER SHALL 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 THAT THIS SYSTEM HAS BEEN SEEN TO BE NEARLY OPTIMAL. THE ACTUAL DESIGN MAY CHANGE, ALTERING THE NUMBER OF UNITS ALLOCATED FOR THIS DEVELOPMENT.
- ANY AND ALL FOREST CONSERVATION REQUIREMENTS WILL BE MET ON-SITE BY AFFORESTATION/REFORESTATION AND/OR RETENTION. THIS OBLIGATION WILL BE MET AT THE SITE DEVELOPMENT PLAN STAGE.

ENVIRONMENTAL CONCEPT PLAN

SED PJM HOLDINGS LLC

CLEAR VIEW FARM

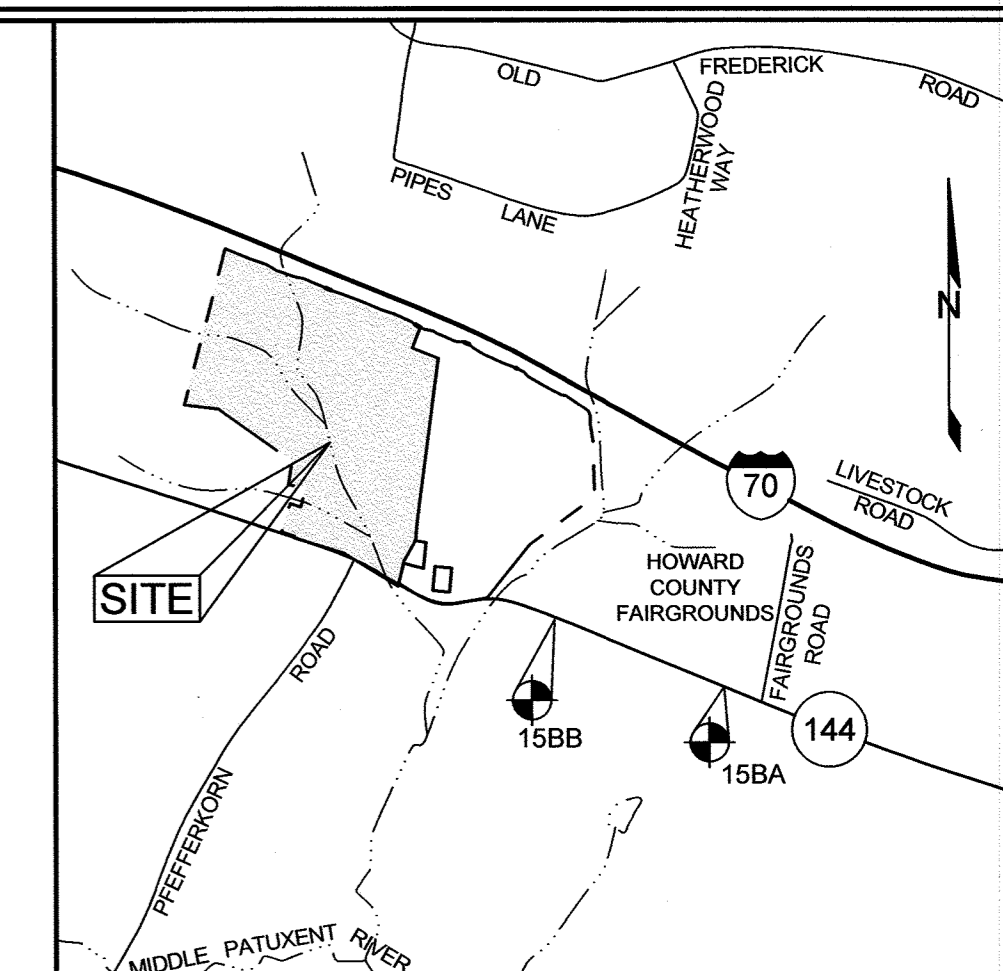
SOLAR FACILITY, COMMERCIAL

HOWARD COUNTY, MARYLAND

TAX MAP 9 PARCEL 73

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
- EXISTING 100-YEAR FLOODPLAIN
- PROPOSED SOLAR ARRAY AREA
- PROPOSED LEVEL SPREADER
- PROPOSED 7' FENCE (NO BARBED WIRE)
- EXISTING 50' PRIVATE COMMON USE RIGHT-OF-WAY MAINTENANCE AGREEMENT LIBER 2700 FOLIO 429



BENCHMARKS			
NUMBER	NORTHING	EASTING	ELEVATION
15BA	597,228.1254	1,321,719.2760	590.296'
15BB	597,926.9029	1,319,849.8262	527.586'

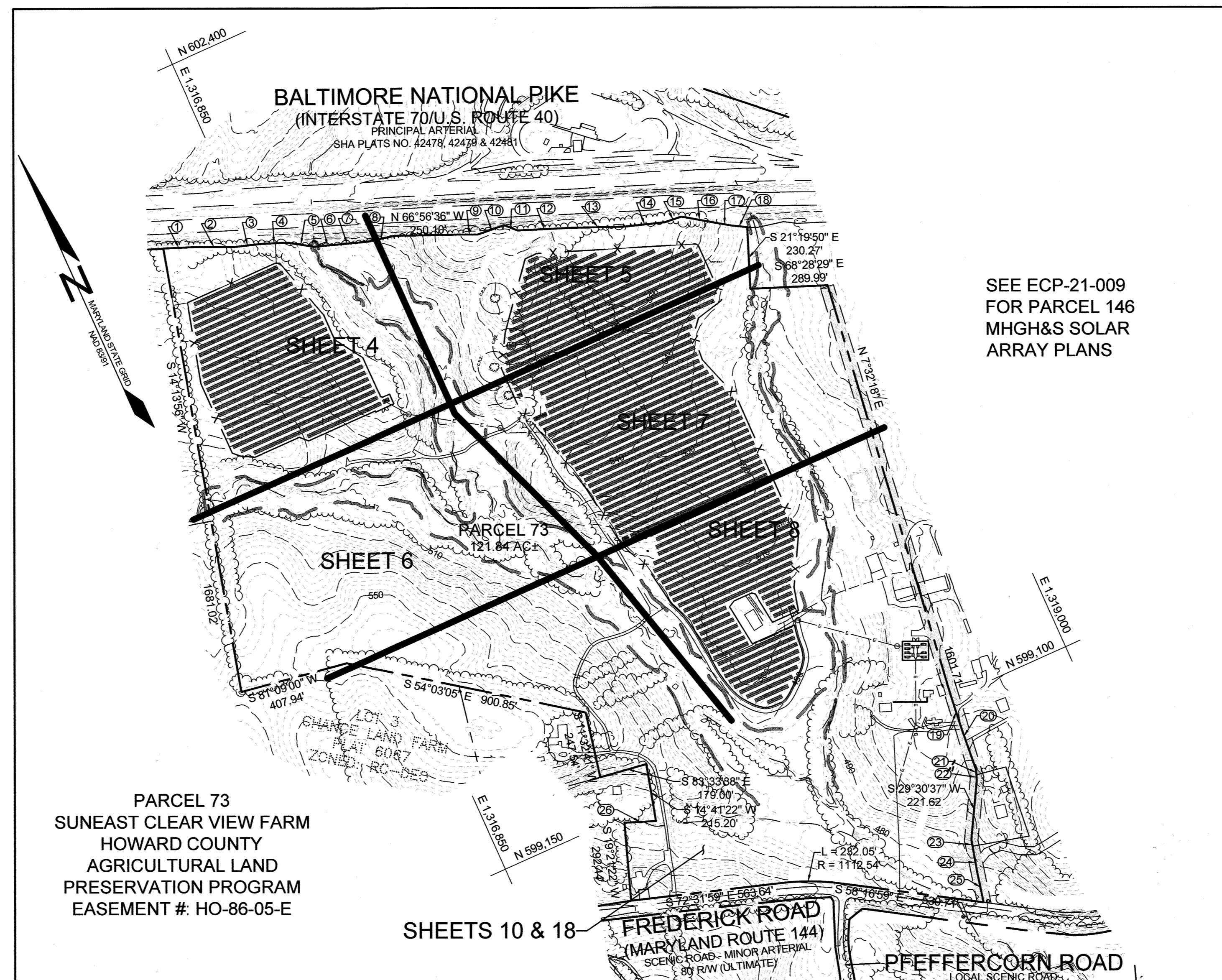
BEARING & DISTANCE CHART

TAG	BEARING	DISTANCE
1	N 68°31'50" W	115.67'
2	N 65°51'31" W	150.16'
3	N 72°32'05" W	100.24'
4	N 68°31'50" W	98.99'
5	N 57°13'14" W	101.98'
6	N 71°23'35" W	101.12'
7	N 77°03'41" W	101.12'
8	N 77°03'41" W	100.12'
9	N 65°41'40" W	60.63'
10	N 85°13'47" W	104.40'
11	N 44°46'52" W	54.63'
12	N 68°31'50" W	200.00'
13	N 67°05'54" W	200.06'
14	N 71°57'51" W	150.27'
15	N 82°22'32" W	65.92'
16	N 55°40'45" W	138.50'
17	N 56°16'53" W	50.41'
18	N 59°33'00" W	60.33'
19	N 6°7'43" E	129.98'
20	N 19°28'32" E	19.02'
21	N 21°31'1" E	21.14'
22	N 13°12'9" E	24.84'
23	N 19°28'32" E	19.03'
24	N 14°9'43" E	98.69'
25	N 12°13'45" E	114.89'
26	N 68°48'38" W	118.00'

SITE ANALYSIS DATA SHEET

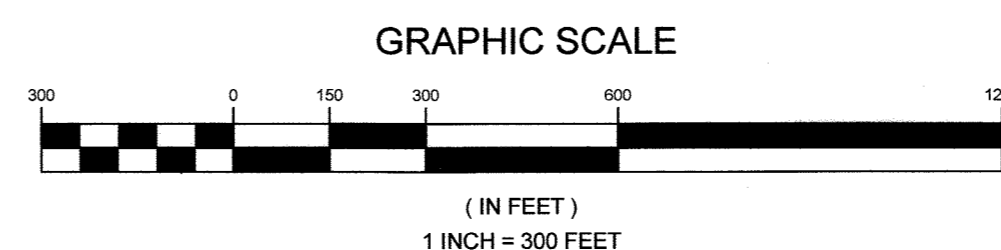
ENVIRONMENTAL AREA	SIZE OR USE (1)
TOTAL PROJECT AREA	119.98 ACRES ±
LIMIT OF DISTURBANCE	36.64 ACRES ±
GREEN OPEN AREA (LAWN)	34.93 ACRES ±
IMPERVIOUS AREA	0.87 ACRES ±
PROPOSED SITE USES	SOLAR FACILITY
WETLANDS	121,999 SQ FTs *
WETLAND BUFFERS	136,378 SQ FTs *
FLOODPLAINS	681,174 SQ FTs *
FLOODPLAIN BUFFERS	430,831 SQ FTs *
EXISTING FOREST	30,769 SQ FTs
SLOPES GREATER THAN 15%	144,379 SQ FTs
HIGHLY ERODIBLE SOILS (3)	3.31 ACRES

- NOTES:
- AREAS LISTED WITH AN ASTERISK ARE NOT WITHIN THE DEVELOPMENT AREA.
 - 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



SEE ECP-21-009 FOR PARCEL 146 MHGH&S SOLAR ARRAY PLANS

LOCATION MAP
SCALE: 1"=300'



SHEET INDEX	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	EXISTING CONDITIONS AND FOREST STAND & SLOPE DELINEATION
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	SEDIMENT & EROSION CONTROL AND STORMWATER MANAGEMENT PLAN
9	STORMWATER MANAGEMENT DRAINAGE AREA MAP
10	FLOODPLAIN STUDY - EXISTING CONDITION DRAINAGE AREA MAP
11	FLOODPLAIN STUDY - EXISTING CONDITION DRAINAGE AREA MAP
12	FLOODPLAIN STUDY - PROPOSED CONDITION DRAINAGE AREA MAP
13	FLOODPLAIN STUDY - PROPOSED CONDITION DRAINAGE AREA MAP
14	NOTES AND DETAILS
15	LANDSCAPING PLAN
16	LANDSCAPING 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. THERE IS AN EXISTING STREAM CROSSING SHOWN ON SHEET 6 WHICH WILL BE UTILIZED FOR ACCESS TO THE SOLAR ARRAY AREAS.
- TO THE GREATEST EXTENT PRACTICABLE, THE NATURAL FLOW PATTERNS OF THE SITE HAVE BEEN MAINTAINED.
- THE DESIGN INCORPORATES THE LEAST IMPERVIOUS AREA POSSIBLE.
- STABILIZED CONSTRUCTION ENTRANCES, SILT FENCES AND SUPER 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, SHEET FLOW TO CONSERVATION AREAS (N-3), AND BIORETENTION FACILITIES (F-6).
- AN ALTERNATIVE COMPLIANCE, WP-21-098, HAS BEEN APPROVED FOR THE REMOVAL OF ONE (1) SPECIMEN TREE (ST-3).
- 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 DISCONNECTS.

COVER SHEET
CLEAR VIEW FARM SOLAR FACILITY
13370 ROUTE 144

OWNER
CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STRAMER, JR.
443-834-2402
GFSJR17@GMAIL.COM

DEVELOPER
SUNEAAT CLEAR VIEW SOLAR, LLC
110 PHOENIXVILLE PIKE
MALVERN, PA 19355
REED WILLS
484-983-3130
REED.WILLS@SUNEAATPOWER.COM

TAX MAP 15 GRID 3
3RD ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

PARCEL 73

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
484-983-3130

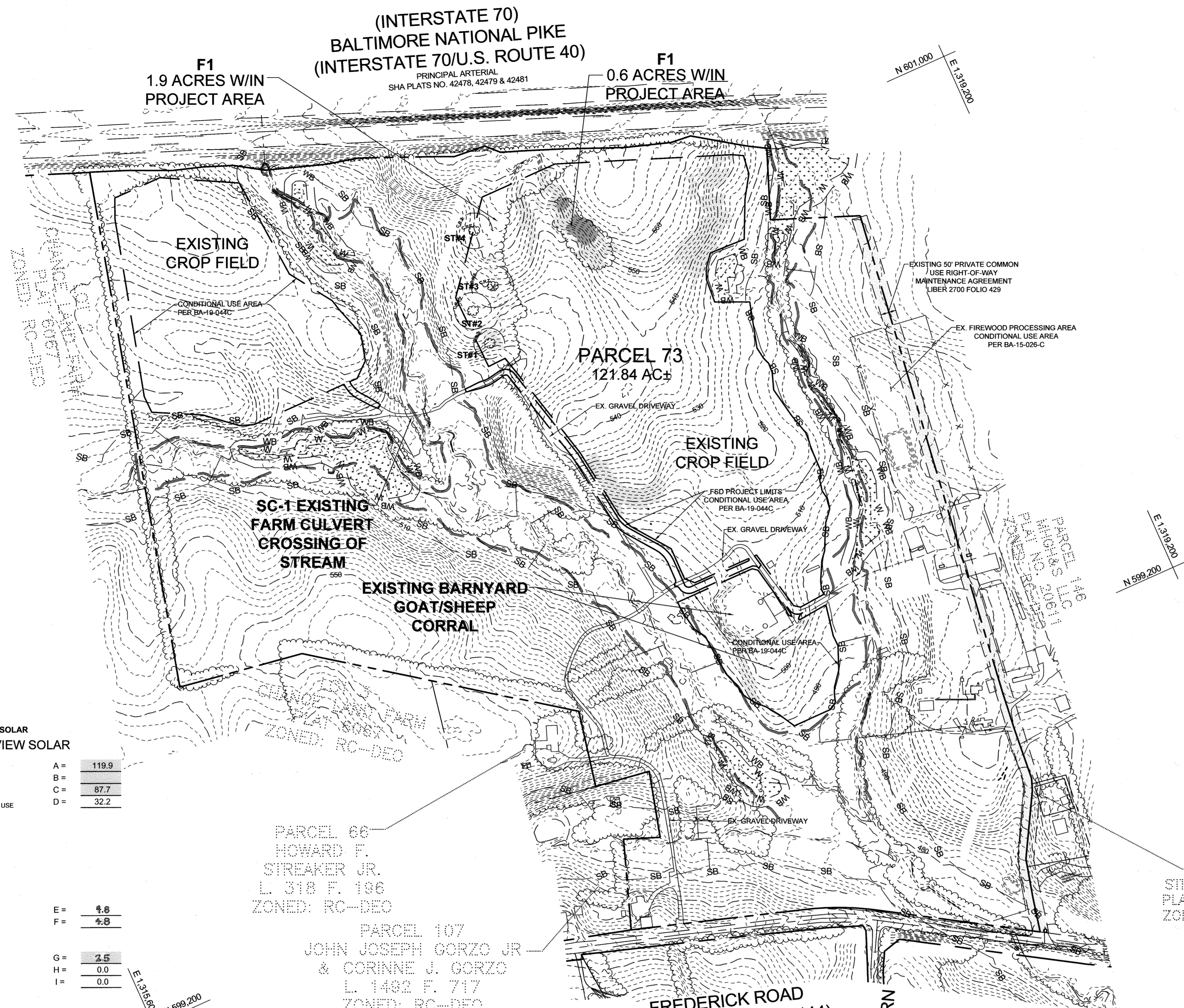
DESIGN BY: PS
DRAWN BY: TB
CHECKED BY: PS
SCALE: AS SHOWN
DATE: AUGUST 2, 2021
PROJECT #: 19-044
SHEET #: 1 of 16

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. 30265, EXPIRATION DATE: JUNE 20, 2022

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief Development Engineering Division
DATE: 8/23/21

Chief, Division of Land Development
DATE: 8/23/21



LEGEND

EXISTING CONTOUR GIS	---	382	EXISTING SPECIMEN TREE	
EXISTING CONTOUR FIELD RUN	---	382	EXISTING SPECIMEN TREE TO BE REMOVED	
EXISTING TREELINE	---		EXISTING SPECIMEN TREE WITH CRITICAL ROOT ZONE	
EXISTING WETLAND	---	W	WETLANDS	
EXISTING 25' WETLAND BUFFER	---	WB	MODERATE SLOPES (15% TO 25%)	
EXISTING STREAM	---		STEEP SLOPES (OVER 25%)	
EXISTING 100' STREAM BUFFER	---	SB	NOTE: SLOPES SHOWN ARE THOSE CONTAINED WITHIN THE SOLAR ARRAY USE AREA.	
EXISTING 100' FLOODPLAIN	---			
PROPOSED FENCE LINE	---	X		

FOREST STAND ANALYSIS TABLE

Project Name: Clearview Solar

Key	Type of Community	Area (0.1 acres)	Soil Information Source: USDA Web Soil Survey			Existing Vegetation (dominant species & %)	Stand Characteristics			Forest Area in Sensitive Environments (0.1 acres)	
			Soil Type	Typical Forest Cover	Woodland Suitability Index		Habitat Value for Soil	Size (dbh in.)	Age		General Condition
F1	Successional	2.5	GgB	Mixed oak/pine	75-87	good	White oak 10%	16-24	50-60	Fair - Notable invasive species in shrub and vine layers	0
			GgC	Mixed oak/pine	75-87	good	Black oak 10%	16-24			
							Black cherry 25%	8-16			
							Mulberry 20%	8-16			
				Callery pear 15%	4-10						

FOREST CONSERVATION WORKSHEET FOR CLEARVIEW SOLAR

Net Tract Area

A. Total (Gross) Tract Area	A = 119.9
B. Area within 100-year Floodplain	B = 0.0
C. Other Deductions (Identify AREAS TO REMAIN IN AG USE)	C = 87.7
D. Net Tract Area	D = 32.2

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
0	0	0	0	1	0

E. Afforestation Threshold (Net Tract Area x 15%) = 4.8

F. Reforestation Threshold (Net Tract Area x 15%) = 4.8

Existing Forest Cover

G. Existing Forest Cover within the Net Tract Area	G = 2.5
H. Area of Forest above Afforestation Threshold	H = 0.0
I. Area of Forest above Reforestation Threshold	I = 0.0

Break Even Point

J. Break Even Point	J = 0.0
K. Forest Clearing Permitted without Mitigation	K = 0.0

Proposed Forest Clearing

L. Total Area of Forest to be Cleared	L = 1.6
M. Total Area of Forest to be Retained	M = 0.9

Planting Requirements Inside Watershed

N. Reforestation for Clearing above the Reforestation Threshold	N = 0.0
P. Reforestation for Clearing below the Reforestation Threshold	P = 3.2
Q. Credit for Retention above the Reforestation Threshold	Q = 0.0
R. Total Reforestation Required	R = 3.2
S. Total Afforestation Required	S = 2.3
T. Total Reforestation and Afforestation Requirement	T = 5.5
U. 75% of Total Obligation (Retention + Planting)	U = 4.1
V. Planting Required Onsite to meet 75% Obligation	V = 3.9

Planting Requirements Outside Watershed

W. Total Planting within Development Site Watershed	W = 0.0
X. Total Afforestation Required	X = 2.3
Y. Remaining Planting within Watershed for Reforestation Credit	Y = 0.0
Z. Reforestation for Clearing above the Reforestation Threshold	Z = 0.0
AA. Reforestation for Clearing below the Reforestation Threshold	AA = 4.8
BB. Credit for Retention above the Reforestation Threshold	BB = 0.0
CC. Total Reforestation Required	CC = 4.8
DD. Total Afforestation and Reforestation Requirement	DD = 7.1

SPECIMEN TREE TABLE

KEY	DBH	SPECIES	CRZ (FEET)	AGE (YEARS)	REMARKS/CONDITION	RETAINED/REMOVED
ST-1	33"	SYCAMORE	49.5	82.5+/-	FAIR, HEAVY VINES	TO BE RETAINED
ST-2	39.5"	BLACK OAK	59.25	98.75+/-	POOR, DIEBACK IN CANOPY	TO BE RETAINED
ST-3	45"	SHINGLE OAK	67.5	112.5+/-	POOR, STORM DAMAGE AND DIEBACK	TO BE REMOVED
ST-4	38.35	WHITE OAK	57.525	95.87+/-	GOOD CONDITION	TO BE RETAINED

Joanne Carey
 JOANNE CAREY (PA 4148)
 MD DNR QUALIFIED PROFESSIONAL

Eco-Science Professionals, Inc.
 Consulting Ecologists
 P.O. Box 5066 Glen Arms, Maryland 21057 Telephone (410) 832-2469 Fax (410) 832-4588

MD DNR Qualified Professional
 USACE Wetland Delimiter
 Certification # WDC-PA-000004402
 John P. Canale

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 MALVERN, PA 19355
 REED WILLS
 484-983-3130
 REED.WILLS@SUNEASTPOWER.COM

EXISTING CONDITIONS AND FOREST STAND & SLOPE DELINEATION PLAN
CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144

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

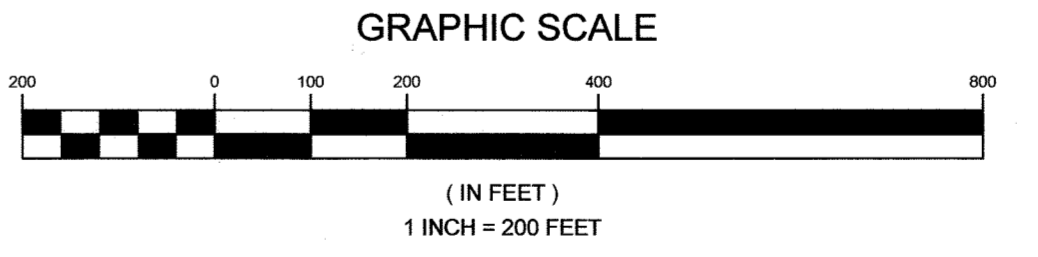
SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: PS
 DRAWN BY: TB
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: AUGUST 2, 2021
 PROJECT #: 19-044
 SHEET #: 2 of 16

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. 30205, EXPIRATION DATE: JUNE 30, 2023

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
[Signature]
 CHIEF DEVELOPMENT ENGINEERING DIVISION DATE: 8/23/21
 CHIEF DIVISION OF LAND DEVELOPMENT DATE: 8/23/21

AFFORESTATION REQUIRED = 3.9 ACRES



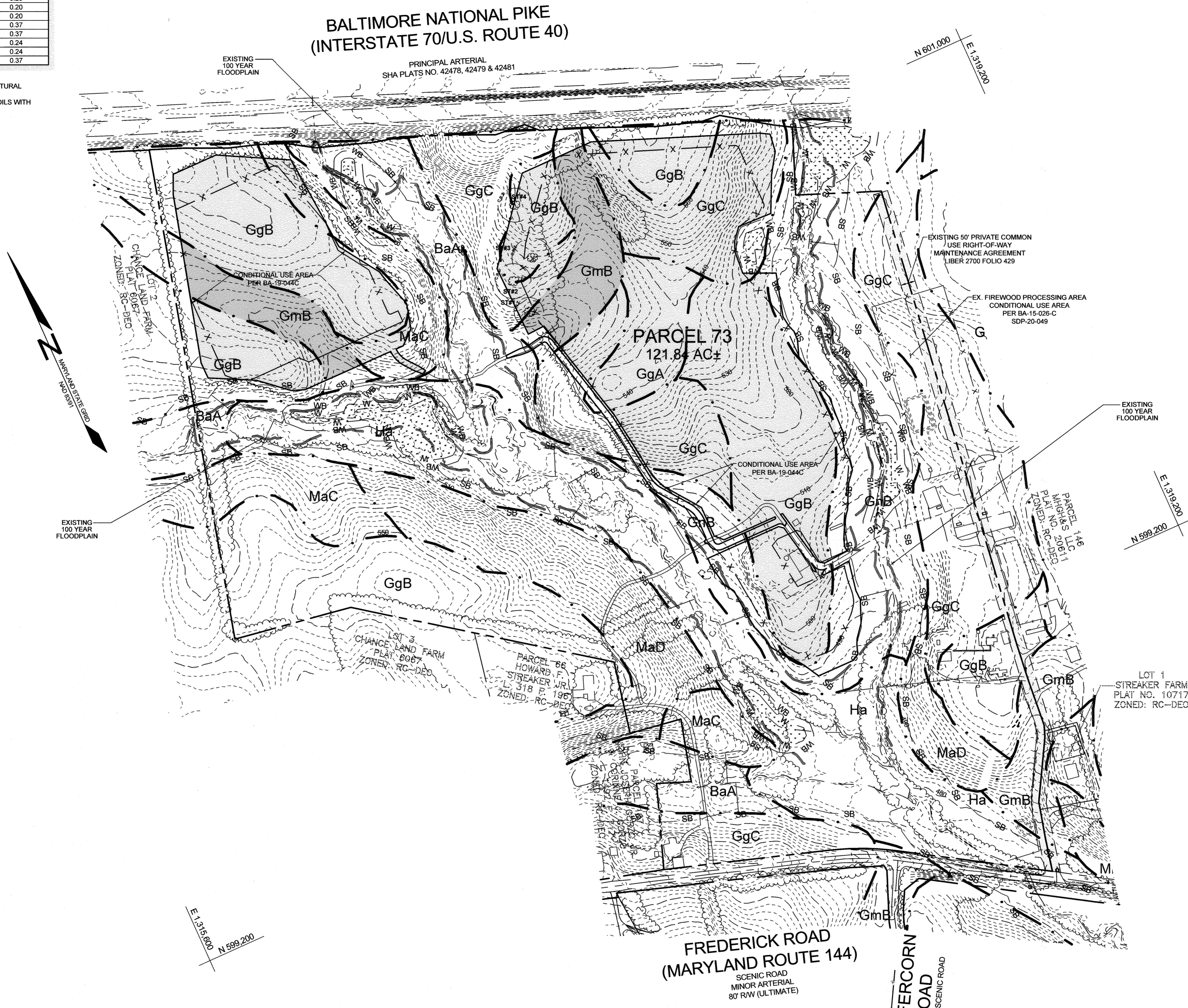
- FSD NOTES:**
- The FSD and wetland delineation have been prepared for the proposed project area.
 - No rare, threatened or endangered species or their habitats were observed on the property.
 - Forest is present within the limits of the study/project area.
 - The wetlands and streams on/adjacent to the site are part of an the Use IV-P watershed of the Middle Patuxent River (02-12-09).
 - No 100 year floodplain is present within the project limits.
 - There are steep slopes (25% or greater) in the development area.
 - There is one known historic structure, 13370 Frederick Road, Historic Building HO-375. No known cemeteries on the property.
 - There are specimen trees on the property.
 - Any and all forest conservation requirements will be met on-site by afforestation/reforestation and/or retention. This obligation will be met at the site development plan stage.

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.32
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	0.20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.20
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	0.37
GmC	GLENVILLE-BAILE SILT LOAMS, 0 TO 3 PERCENT SLOPES	C	0.37
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	0.24
MaD	MANOR LOAM, 15 TO 25% SLOPES	B	0.24
Ha	HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	B/D	0.37

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.

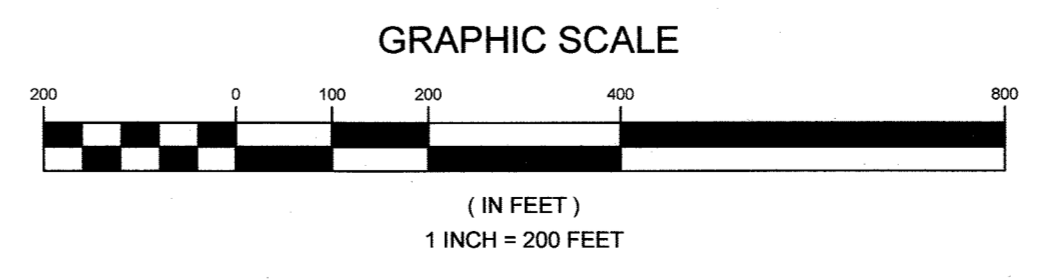
LEGEND	
EXISTING CONTOUR GIS	--- 382
EXISTING CONTOUR FIELD RUN	--- 382
EXISTING TREELINE	~~~~~
EXISTING WETLAND	--- W ---
EXISTING 25' WETLAND BUFFER	--- WB ---
EXISTING STREAM	--- S ---
EXISTING 100' STREAM BUFFER	--- SB ---
EXISTING 100' FLOODPLAIN	--- F ---
PROPOSED FENCE LINE	- X - X -
WETLANDS	[Pattern]
'B'	[Color Box]
'C'	[Color Box]
'C/D'	[Color Box]

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



FREDERICK ROAD (MARYLAND ROUTE 144)
 SCENIC ROAD
 MINOR ARTERIAL
 80' RAW (ULTIMATE)

PLAN VIEW
 SCALE: 1"=200'

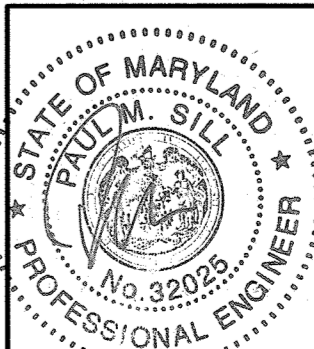


APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 [Signature] DATE: 8/20/21
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature] DATE: 8/23/21
 CHIEF, DIVISION OF LAND DEVELOPMENT

OWNER
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 REED WILLS
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 REED.WILLS@SUNEASTPOWER.COM

SOILS MAP
 CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144
 TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT
 PARCEL 73
 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

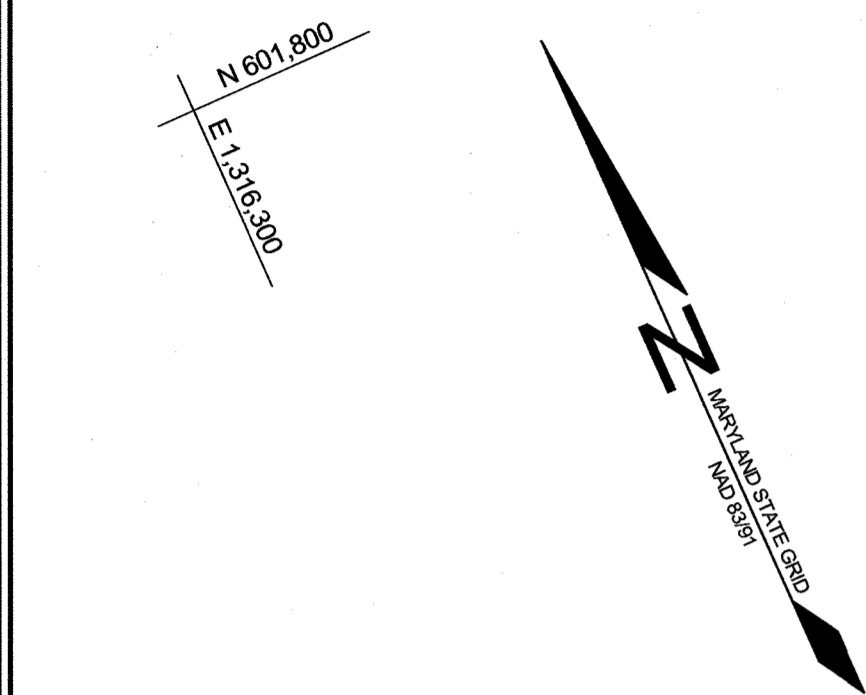
DESIGN BY: PS
 DRAWN BY: TB
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: AUGUST 2, 2021
 PROJECT #: 19-044
 SHEET #: 3 of 16

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, 2025

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

LEGEND

EXISTING CONTOUR GIS	---	382	FOREST CONSERVATION AREA	
EXISTING CONTOUR FIELD RUN	---	382	WETLANDS	
PROPOSED CONTOUR	---	382	PROPOSED SOLAR PANELS	
EXISTING SPOT ELEVATION	●	382.5	PROPOSED TRANSFORMER	
PROPOSED SPOT ELEVATION	●	+82.53	SILT FENCE	
DIRECTION OF FLOW	→		SUPER SILT FENCE	
EXISTING TREETLINE	---		LIMIT OF DISTURBANCE	
PROPOSED TREETLINE	---		STABILIZED CONSTRUCTION ENTRANCE	
EXISTING WETLAND	W		A-2 EARTH DIKE	
EXISTING 25' WETLAND BUFFER	WB		PROPOSED NON-ROOFTOP DISCONNECT TREATMENT AREA (N-2)	
EXISTING STREAM	---		PROPOSED SHEETFLOW TO CONSERVATION AREA TREATMENT (N-3)	
EXISTING 100' STREAM BUFFER	SB		SHEETFLOW TO CONSERVATION AREA (N-3)	
EXISTING 100-YEAR FLOODPLAIN	---		PROPOSED DRAINAGE DIVIDE	
PROPOSED FENCE LINE	X	X	RIDGELINE OFFSET (150' & 300')	
PROPOSED UNDERGROUND BGE ELECTRIC WIRE	E	E	EDGE OF CHANNEL	
PROPOSED LEVEL SPREADERS	---	60 LF	0-5% SLOPES	
PROPOSED PERMANENT SWALE	---		5-10% SLOPES	
TREE PROTECTION FENCING	TP		10-15% SLOPES	
EXISTING SPECIMEN TREE		ST#4	NOTE: SLOPES SHOWN ARE THOSE CONTAINED WITHIN THE SOLAR ARRAY USE AREA.	
EXISTING SPECIMEN TREE TO BE REMOVED		ST#4		
EXISTING SPECIMEN TREE WITH CRITICAL ROOT ZONE		C.R.Z. ST#4		



NON-ROOFTOP DISCONNECT #1
AREA = 173,326 SF
Tc = 20.40 MINUTES

NON-ROOFTOP DISCONNECT #4
AREA = 31,078 SF
Tc = 6.6 MINUTES

NON-ROOFTOP DISCONNECT #5
AREA = 3,889 SF
Tc = 5.0 MINUTES

NON-ROOFTOP DISCONNECT #2
AREA = 45,390 SF
Tc = 9.60 MINUTES

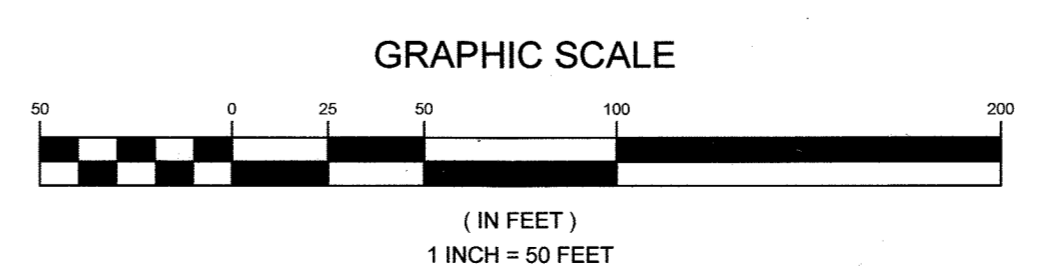
NON-ROOFTOP DISCONNECT #3
AREA = 9,118.38 SF
Tc = 5.0 MINUTES

PROPOSED SOLAR ARRAY AREA #1
7.11 AC ±
PROPOSED FENCED AREA
TOTAL 7.64 AC ±

BIO-RETENTION FACILITY #1
AREA = 673,435 SF
Tc = 25.2 MINUTES

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 8/20/21
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 8/23/21

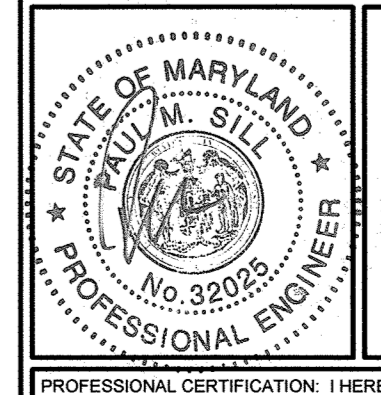
PLAN VIEW
SCALE: 1"=50'



OWNER
CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR.
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GFSJR17@GMAIL.COM

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110 PHOENIXVILLE PIKE
MALVERN, PA 19355
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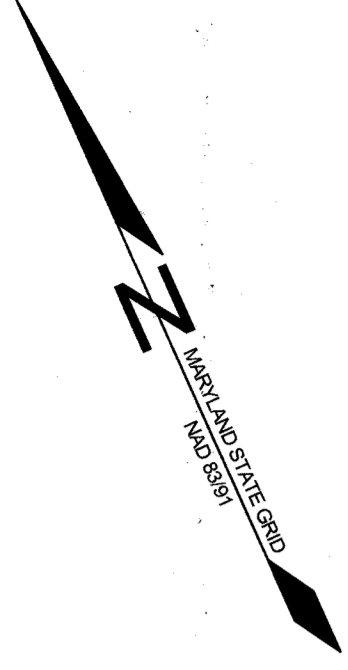
SEDIMENT & EROSION CONTROL AND
STORMWATER MANAGEMENT PLAN
CLEAR VIEW FARM SOLAR FACILITY
13370 ROUTE 144
TAX MAP 15 GRID 3
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
PARCEL 73



SILL
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Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

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CHECKED BY: PS
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SHEET #: 4 of 16

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

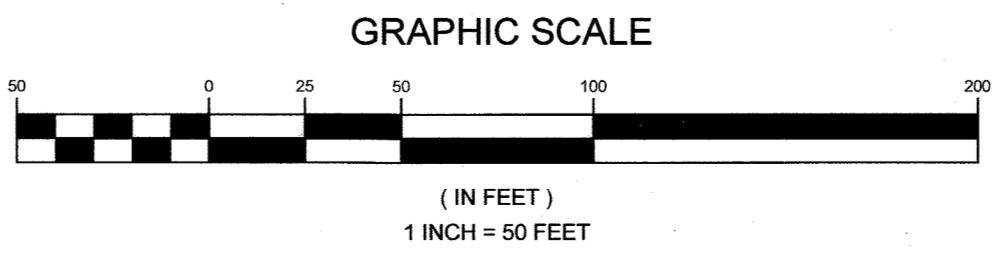
PRINCIPAL ARTERIAL
SHA PLATS NO. 42478, 42479 & 42481



MATCHLINE - SHEET 4

MATCHLINE - SHEET 7

PLAN VIEW
SCALE: 1"=50'



SHEET FLOW TO CONSERVATION AREA #1
AREA = 47,537 SF
Tc = 5 MINUTES

NON-ROOFTOP DISCONNECT #8
AREA = 65,635 SF
Tc = 11.4 MINUTES

NON-ROOFTOP DISCONNECT #7
AREA = 62,956 SF
Tc = 14.4 MINUTES

BIO-RETENTION FACILITY #2
AREA = 358,000 SF
Tc = 14.4 MINUTES

NON-ROOFTOP DISCONNECT #6
AREA = 83,937 SF
Tc = 9.0 MINUTES

ENVIRONMENTAL CONCEPT AND SEDIMENT & EROSION CONTROL PLAN CLEAR VIEW FARM SOLAR FACILITY

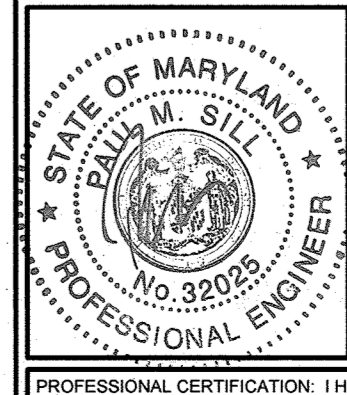
13370 ROUTE 144

TAX MAP 15 GRID 3
3RD ELECTION DISTRICT

PARCEL 73
HOWARD COUNTY, MARYLAND

OWNER
CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21784
GEORGE STREAKER, JR.
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GFSJR17@GMAIL.COM

DEVELOPER
SUNEAAT CLEAR VIEW SOLAR, LLC
110 PHOENIXVILLE PIKE
MALVERN, PA 19355
REED WILLS
484-983-3130
REED.WILLS@SUNEAATPOWER.COM

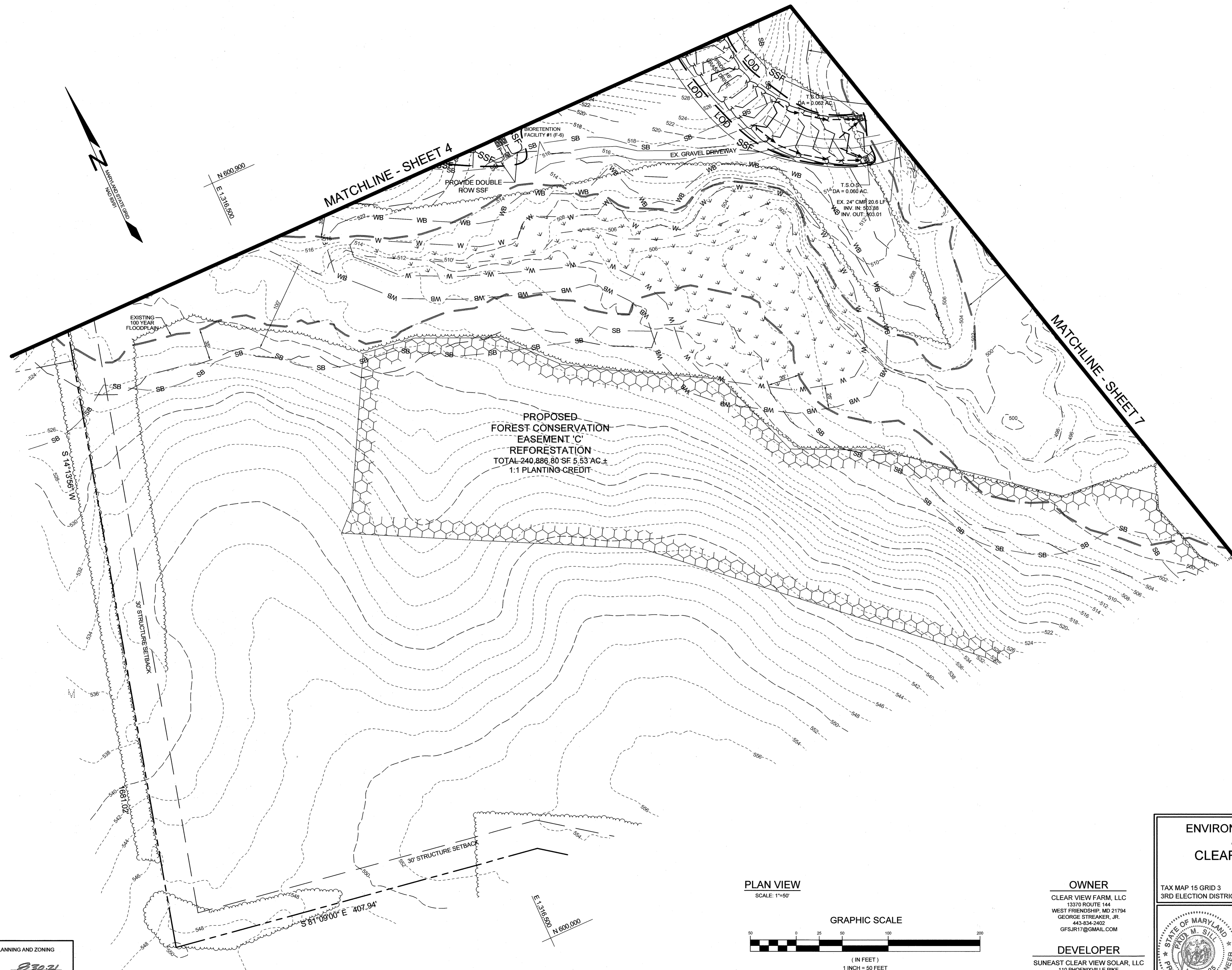


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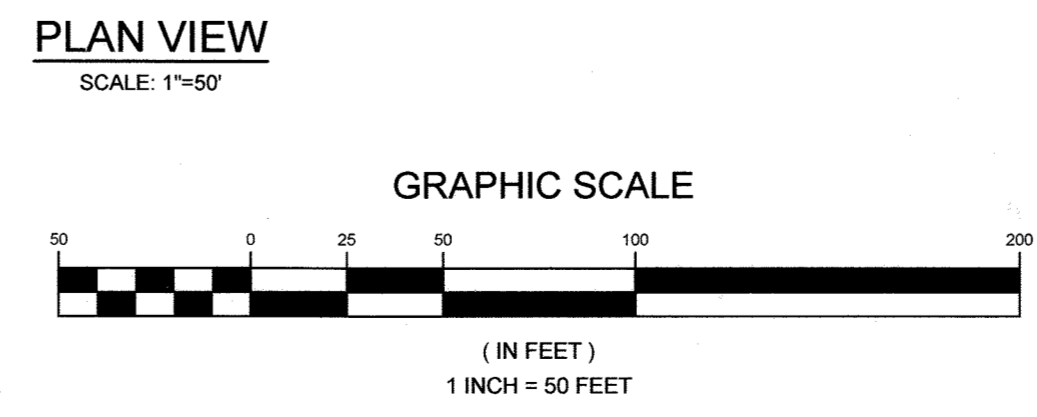
DESIGN BY: PS
DRAWN BY: TB
CHECKED BY: PS
SCALE: AS SHOWN
DATE: AUGUST 2, 2021
PROJECT #: 19-044
SHEET #: 5 of 16

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
David E. Clark
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 8/20/21
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 8/23/21

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. 82025, EXPIRATION DATE: JUNE 30, 2023



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 8/25/21



OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
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 GEORGE STREAKER, JR.
 443-834-2402
 GFSJR17@GMAIL.COM

DEVELOPER
 SUNEAST CLEAR VIEW SOLAR, LLC
 110 PHOENIXVILLE PIKE
 MALVERN, PA 19355
 REED WILLS
 484-983-3130
 REED.WILLS@SUNEASTPOWER.COM

ENVIRONMENTAL CONCEPT AND SEDIMENT & EROSION CONTROL PLAN
CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144

TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT

PARCEL 73
 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
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 SCALE: AS SHOWN
 DATE: AUGUST 2, 2021
 PROJECT #: 19-044
 SHEET #: 6 of 16

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. 33025, EXPIRATION DATE: JUNE 20, 2023

PARCEL 146
 MHGH&S, LLC.
 L. 3988 F. 580
 ZONED: RC-DEO

NON ROOFTOP DISCONNECT #8
 AREA = 65,535 SF
 Tc = 11.4 MINUTES

SHEET FLOW TO CONSERVATION AREA #1
 AREA = 47,537 SF
 Tc = 5 MINUTES

NON ROOFTOP DISCONNECT #13
 AREA = 93,583 SF
 Tc = 7.8 MINUTES

BIO-RETENTION FACILITY #2
 AREA = 358,000 SF
 Tc = 14.4 MINUTES

SHEET FLOW TO CONSERVATION AREA

PROPOSED SOLAR ARRAY AREA #2
 TOTAL 23.48 AC ±
 THIS SHEET 10.55 AC ±
 PROPOSED FENCED AREA
 TOTAL 24.66 AC ±
 THIS SHEET 10.90 AC ±

NON ROOFTOP DISCONNECT #15
 AREA = 150,660 SF
 Tc = 19.8 MINUTES

NON ROOFTOP DISCONNECT #9
 AREA = 28,844 SF
 Tc = 15.0 MINUTES

NON ROOFTOP DISCONNECT #11
 AREA = 132,251 SF
 Tc = 7.8 MINUTES

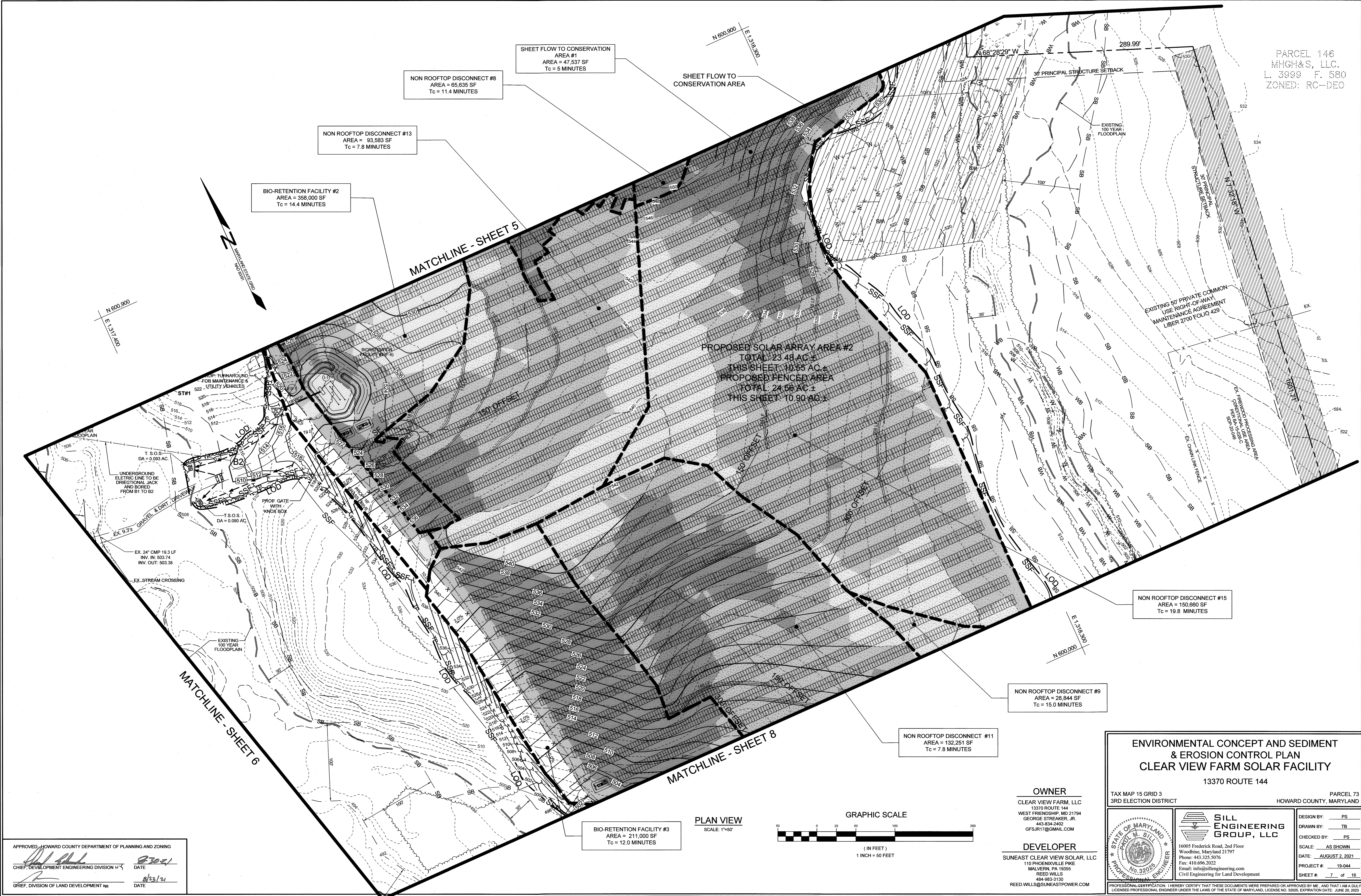
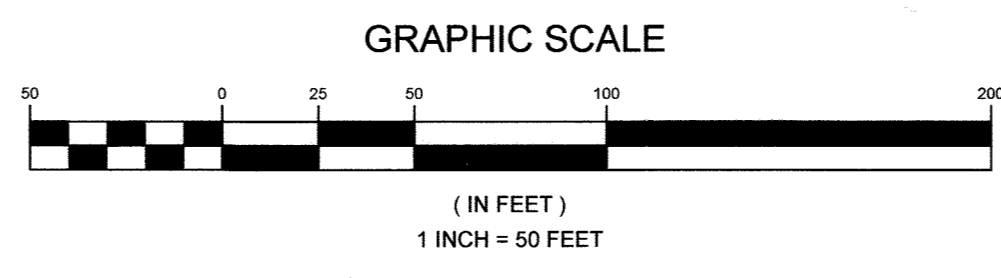
BIO-RETENTION FACILITY #3
 AREA = 211,000 SF
 Tc = 12.0 MINUTES

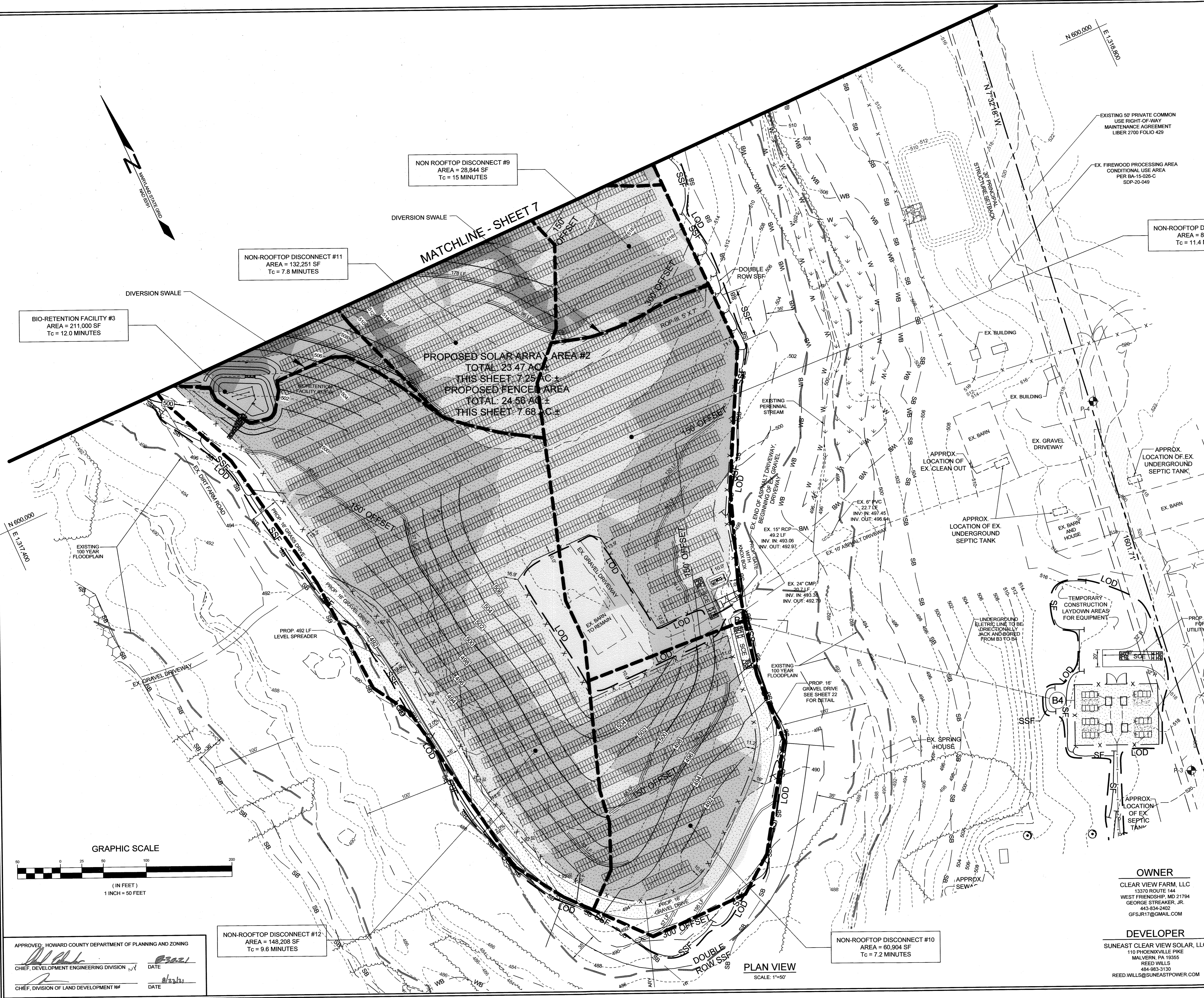
APPROVED, HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 [Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 8/23/21
 DATE: 8/23/21
 CHIEF, DIVISION OF LAND DEVELOPMENT

ENVIRONMENTAL CONCEPT AND SEDIMENT & EROSION CONTROL PLAN
 CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144
 TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT
 PARCEL 73
 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: AUGUST 2, 2021 PROJECT #: 19-044 SHEET #: 7 of 16
	OWNER CLEAR VIEW FARM, LLC 13370 ROUTE 144 WEST FRIENDSHIP, MD 21794 GEORGE STRECKER, JR. 443-834-2402 GFSJR17@GMAIL.COM	
	DEVELOPER SUNEAST CLEAR VIEW SOLAR, LLC 110 PHOENIXVILLE PIKE MALVERN, PA 19355 REED WILLS 484-983-3130 REED.WILLS@SUNEASTPOWER.COM	
	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. 32925, EXPIRATION DATE: JUNE 20, 2023.	
	ECP-21-008	

PLAN VIEW
 SCALE: 1"=50'





APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 8/23/21
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 8/23/21

NON-ROOFTOP DISCONNECT #12
 AREA = 148,208 SF
 Tc = 9.6 MINUTES

NON-ROOFTOP DISCONNECT #10
 AREA = 60,904 SF
 Tc = 7.2 MINUTES

OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
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 GFSJR17@GMAIL.COM

DEVELOPER
 SUNEAST CLEAR VIEW SOLAR, LLC
 110 PHOENIXVILLE PIKE
 MALVERN, PA 19355
 REED WILLS
 484-983-3130
 REED.WILLS@SUNEASTPOWER.COM

ENVIRONMENTAL CONCEPT AND SEDIMENT & EROSION CONTROL PLAN
CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144

TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT

PARCEL 73
 HOWARD COUNTY, MARYLAND

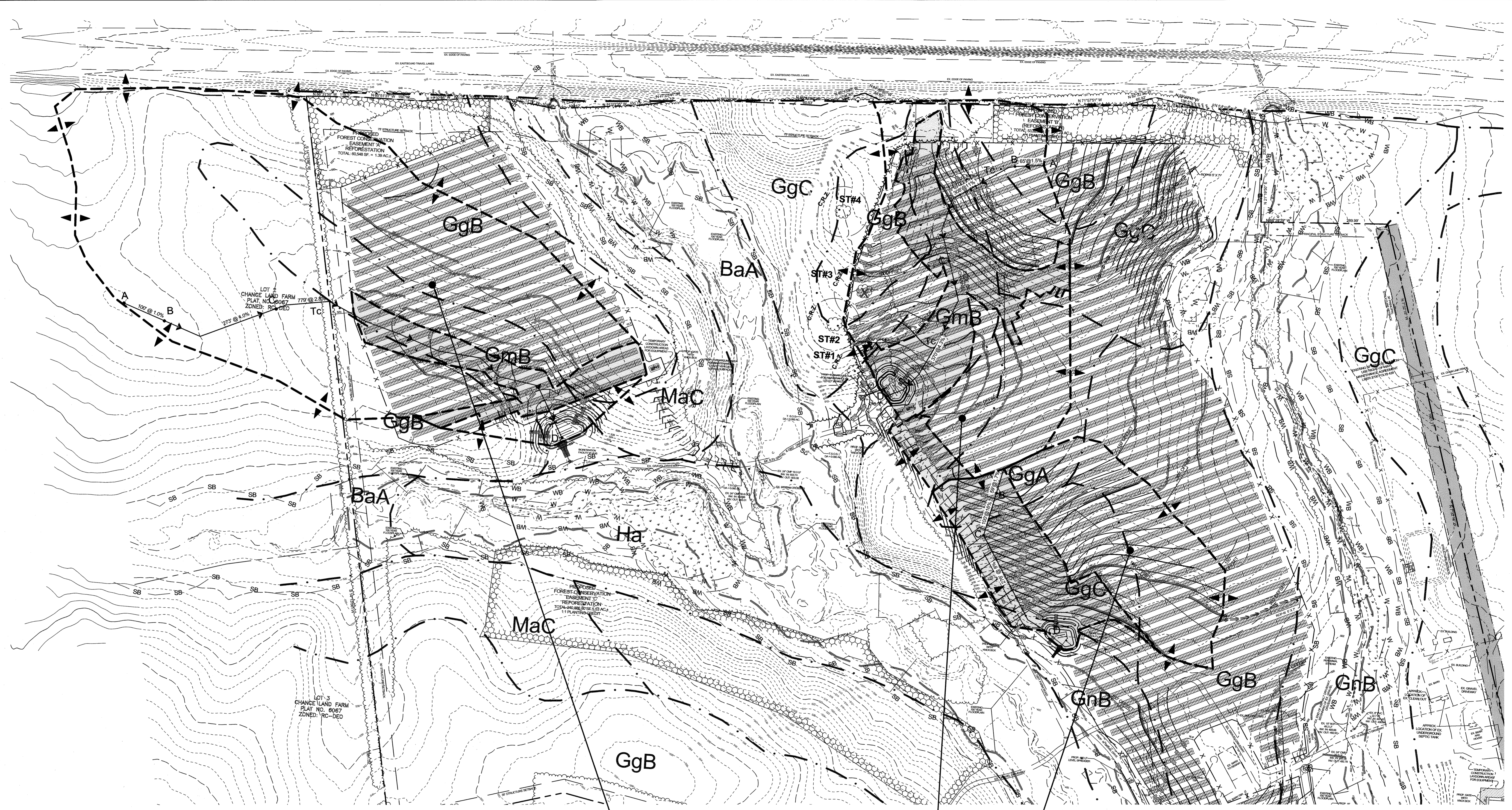
OWNER
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DESIGN BY: PS
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 PROJECT #: 19-044
 SHEET # 8 of 16

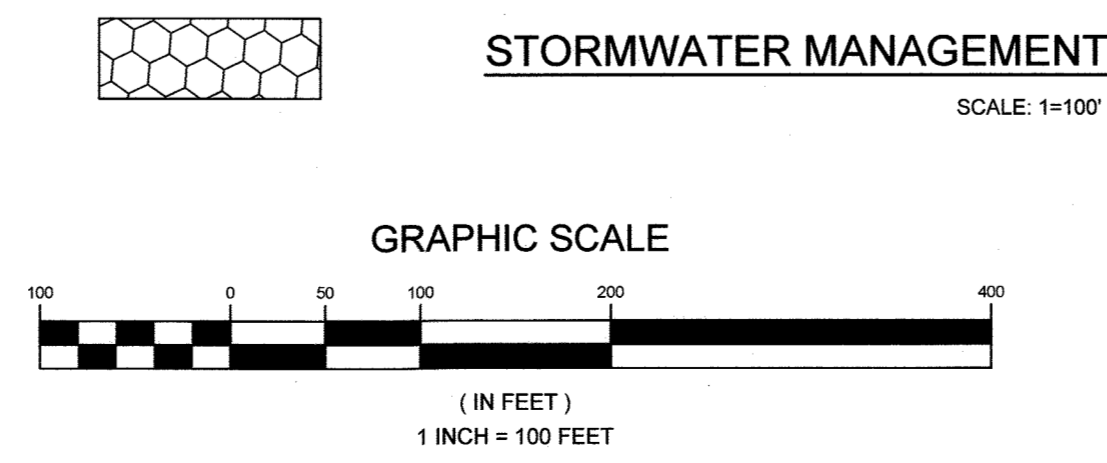


LEGEND

EXISTING CONTOUR		382	WETLANDS		W	IMPERVIOUS AREA TREATED BY BIORETENTION	
PROPOSED CONTOUR		382	WETLAND BUFFER		WB	WETLANDS	
PROPOSED SPOT ELEVATION		+32.53	EXISTING FENCE		X	FOREST CONSERVATION AREA	
EXISTING TREELINE			PROPOSED DRAINAGE AREA				
PROPOSED TREELINE			EXISTING 100 YEAR FLOODPLAIN				
EXISTING SOILS							

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 8/23/21
 CHIEF, DIVISION OF LAND DEVELOPMENT

1. A = 15.46 Ac, Z = RC-DEO, Pe = 1.0%, 'B' & 'C' SOILS
 2. A = 8.22 Ac, Z = RC-DEO, Pe = 1.0%, 'B' & 'D' SOILS
 3. A = 4.83 Ac, Z = RC-DEO, Pe = 1.0%, 'B' SOIL



OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 443-834-2402
 GFS, JR17@GMAIL.COM

DEVELOPER
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 110 PHOENIXVILLE PIKE
 MALVERN, PA 19355
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STORMWATER MANAGEMENT DRAINAGE AREA MAP
CLEAR VIEW FARM SOLAR FACILITY
 13370 ROUTE 144

TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT

PARCEL 73
 HOWARD COUNTY, MARYLAND

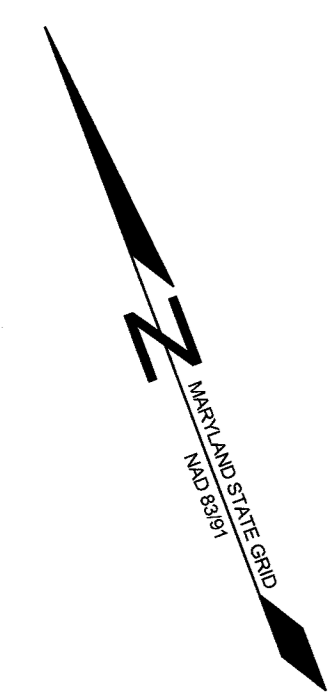
SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
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 Civil Engineering for Land Development

DESIGN BY: JB
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LEGEND

- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING DRAINAGE DIVIDE
- SOIL BOUNDARY
- EXISTING 100 YEAR FLOODPLAIN & UTILITY EASEMENT
- EXISTING FLOODPLAIN CROSS SECTION
- AREA OF FLOODPLAIN



N 603.800
E 1,314.700

A=212.3 Ac. RCN=66 DA-1 Tc=0.27 HR. P=7%
'B' & 'C' SOIL



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

STUDY POINT 1
SEE INSET MAP FOR CROSSING #1

STUDY POINT 4

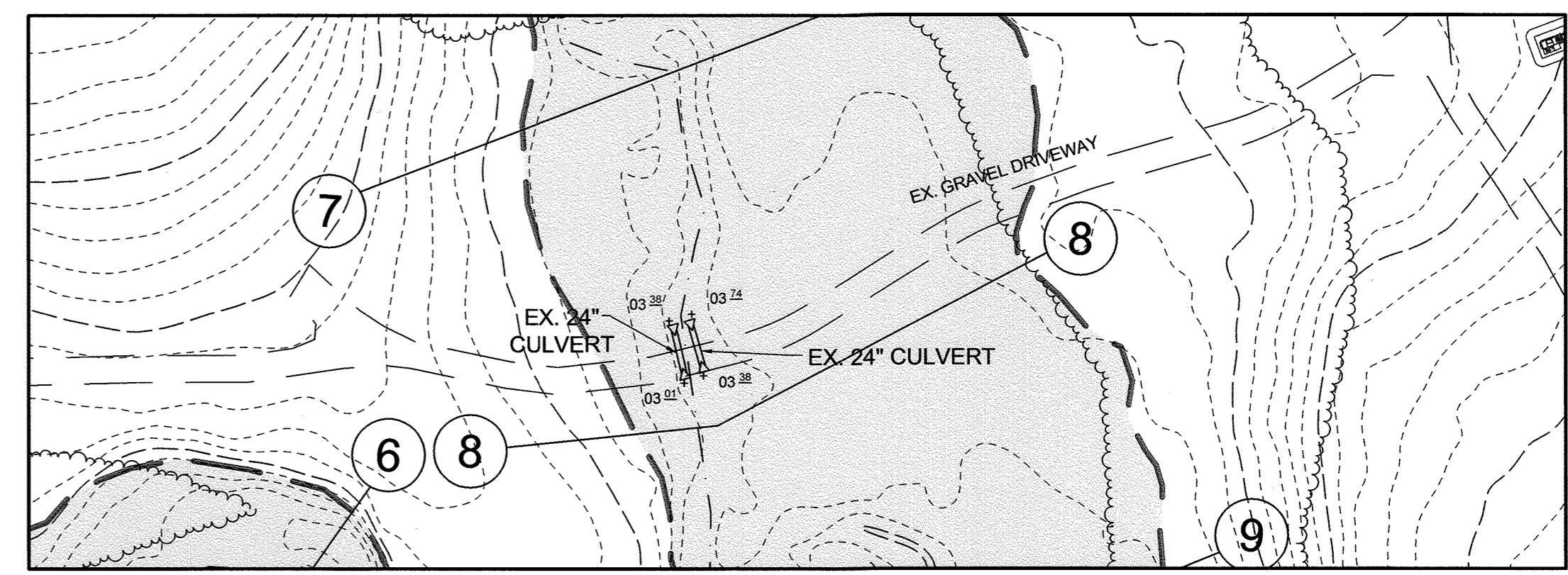
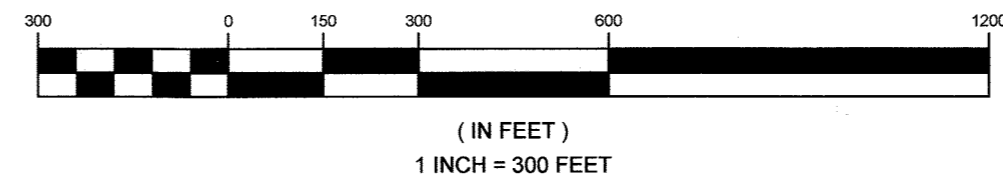
A=53.69 Ac. RCN=73 DA-2 Tc=0.19 HR. P=11%
'B' & 'C' SOIL

STUDY POINT
SEE INSET MAP FOR CROSSING #2

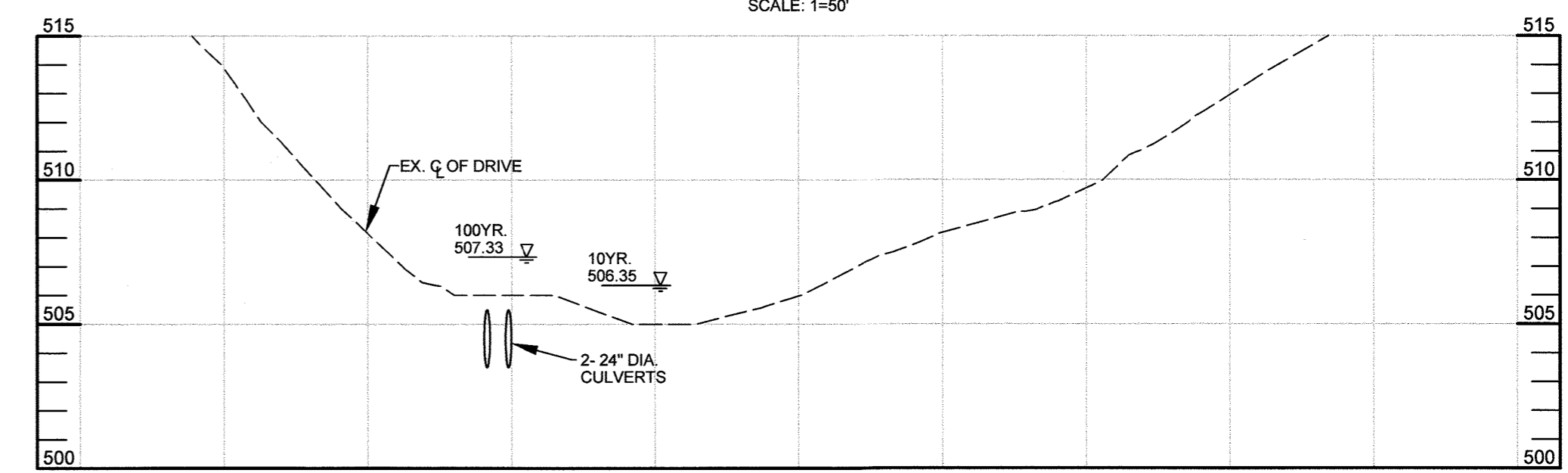
STUDY POINT 3

PLAN VIEW
SCALE: 1=300'

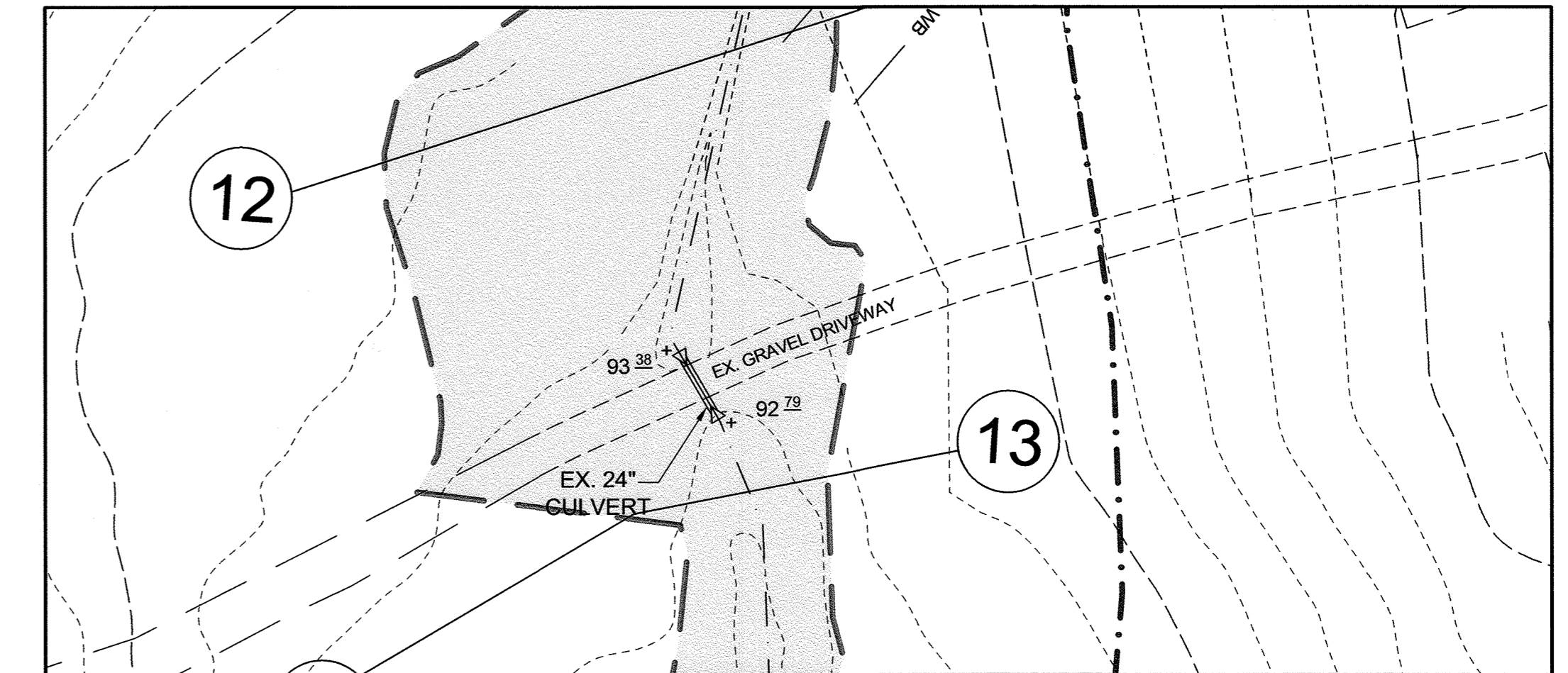
GRAPHIC SCALE



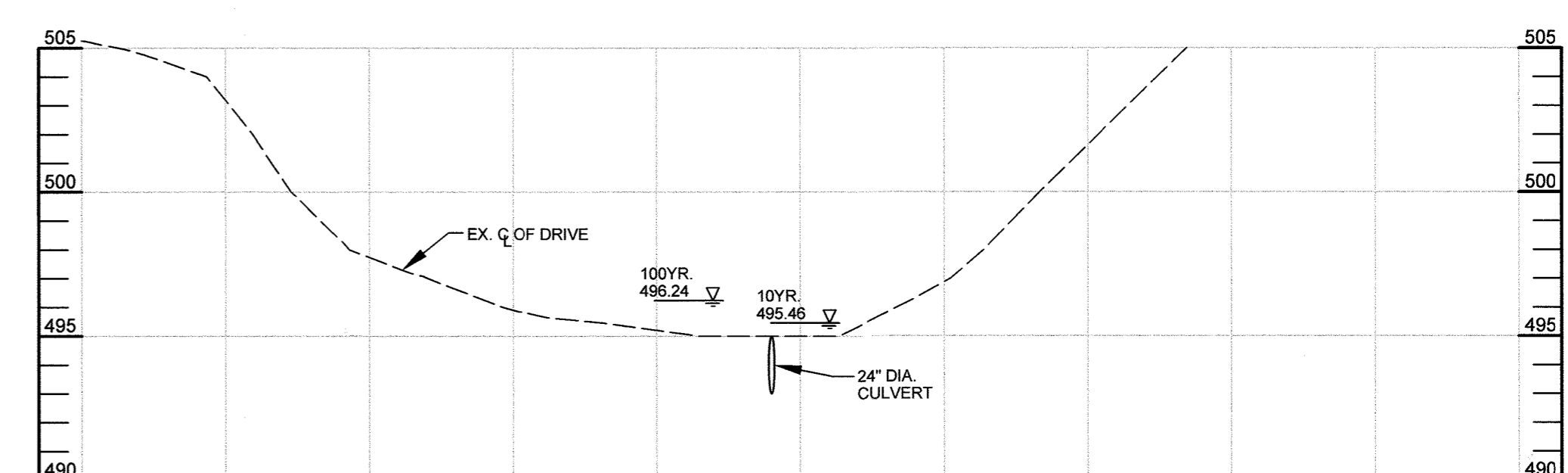
INSET MAP - CROSSING #1
SCALE: 1=50'



CROSSING #1 - PROFILE
SCALE: HORZ. 1=50'
VERT. 1=5'



INSET MAP - CROSSING #2
SCALE: 1=50'



CROSSING #2 - PROFILE
SCALE: HORZ. 1=50'
VERT. 1=5'

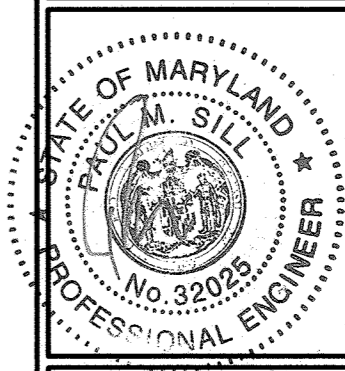
**FLOODPLAIN STUDY
EXISTING CONDITION DRAINAGE AREA MAP
CLEAR VIEW FARM SOLAR FACILITY**

13370 ROUTE 144

TAX MAP 15 GRID 3 3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND PARCEL 73

OWNER
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SHEET #: 10 of 16

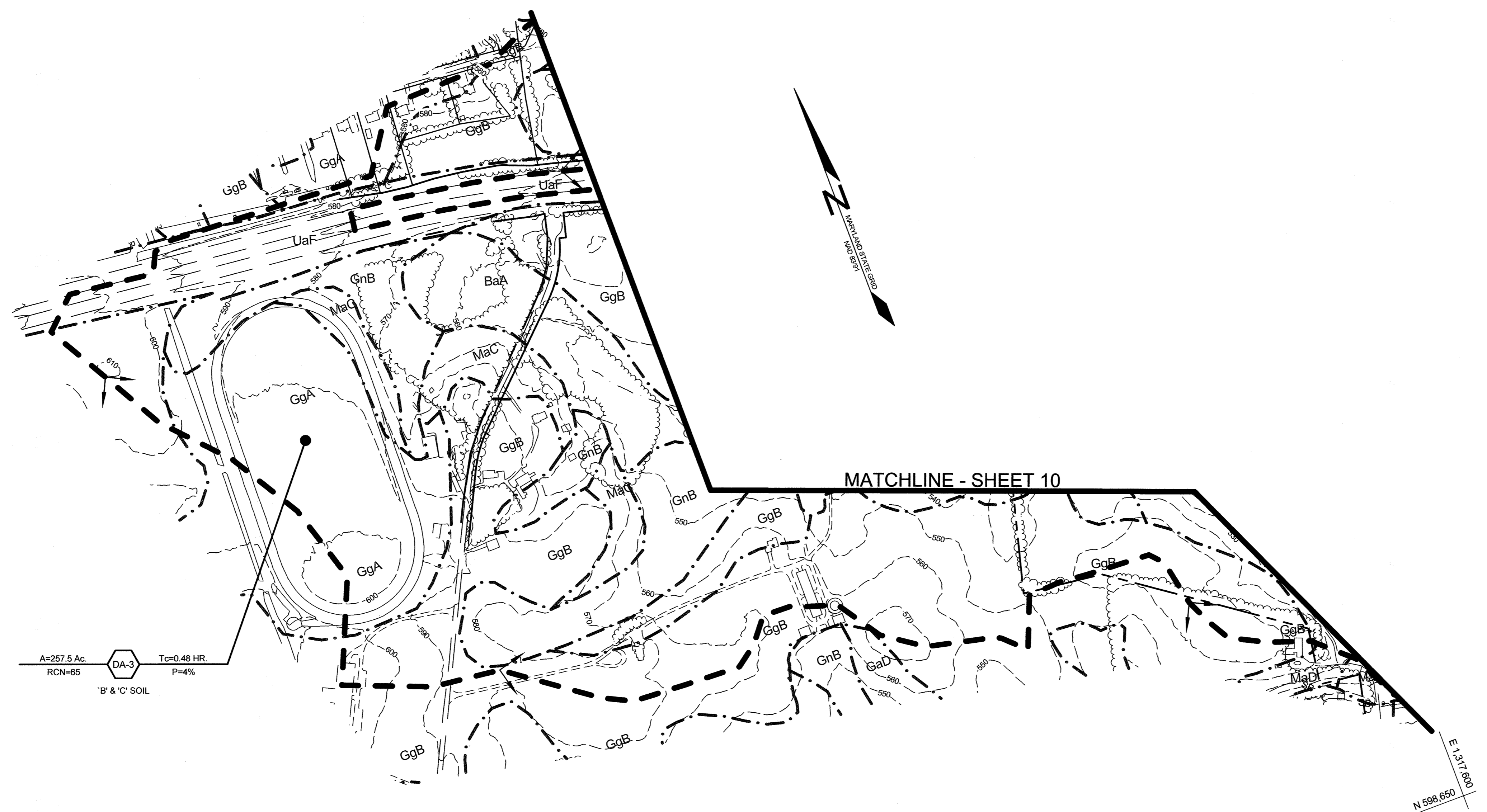
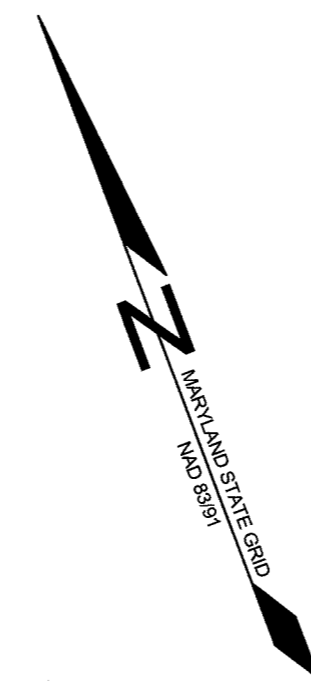
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LEGEND

- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING DRAINAGE DIVIDE
- SOIL BOUNDARY
- EXISTING 100 YEAR FLOODPLAIN & UTILITY EASEMENT
- EXISTING FLOODPLAIN CROSS SECTION

N 603,600
E 1,317,690

N 603,600
E 1,312,090



A=257.5 Ac. RCN=65 DA-3 Tc=0.48 HR. P=4%
'B' & 'C' SOIL

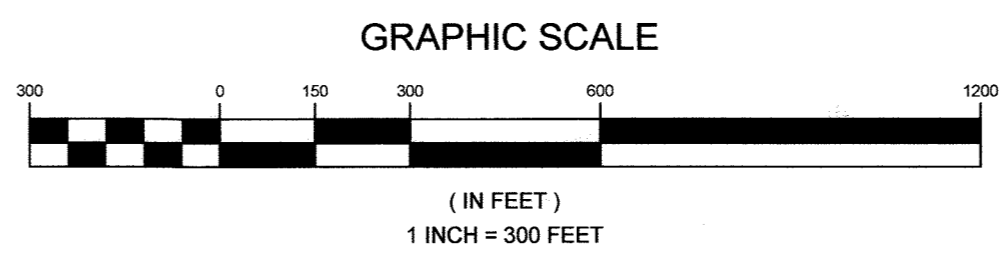
MATCHLINE - SHEET 10

PLAN VIEW
SCALE: 1"=300'

N 598,650
E 1,317,690

APPROVED, HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 8/2/21
CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 8/2/21



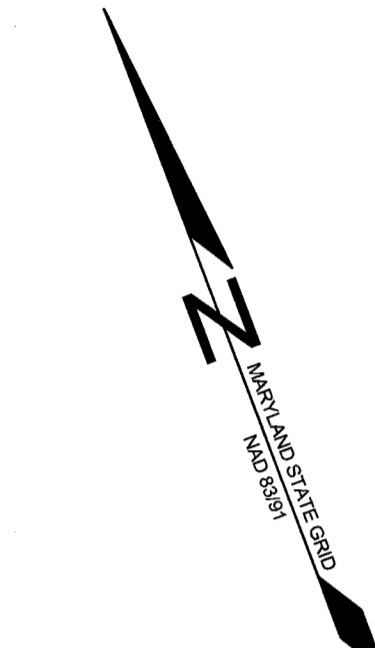
OWNER
CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR.
443-834-2402
GFSJR17@GMAIL.COM

DEVELOPER
SUN-EAST CLEAR VIEW SOLAR, LLC
110 PHOENIXVILLE PIKE
MALVERN, PA 19355
REED WILLS
484-983-3130
REED.WILLS@SUN-EASTPOWER.COM

FLOODPLAIN STUDY	
EXISTING CONDITION DRAINAGE AREA MAP	
CLEAR VIEW FARM SOLAR FACILITY	
13370 ROUTE 144	
TAX MAP 15 GRID 3 3RD ELECTION DISTRICT	PARCEL 73 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: JB DRAWN BY: JB CHECKED BY: PS SCALE: AS SHOWN DATE: AUGUST 2, 2021 PROJECT #: 19-044 SHEET #: 11 of 16
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. 32023, EXPIRATION DATE: JUNE 20, 2023	

LEGEND

- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING DRAINAGE DIVIDE
- SOIL BOUNDARY
- PROPOSED 7' HIGH CHAIN LINK SECURITY FENCE (NO BARBED WIRE)
- EXISTING 100 YEAR FLOODPLAIN & UTILITY EASEMENT
- PROPOSED FLOODPLAIN CROSS SECTION
- AREA OF FLOODPLAIN



N 603,750
E 1,314,550

MATCHLINE - SHEET 13

A=257.5 Ac. DA-3 Tc=0.48 HR. P=4%
RCN=65 'B' & 'C' SOIL

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 8/20/21

 CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 8/20/21

A=212.3 Ac. DA-1 Tc=0.27 HR. P=7%
RCN=66 'B' & 'C' SOIL



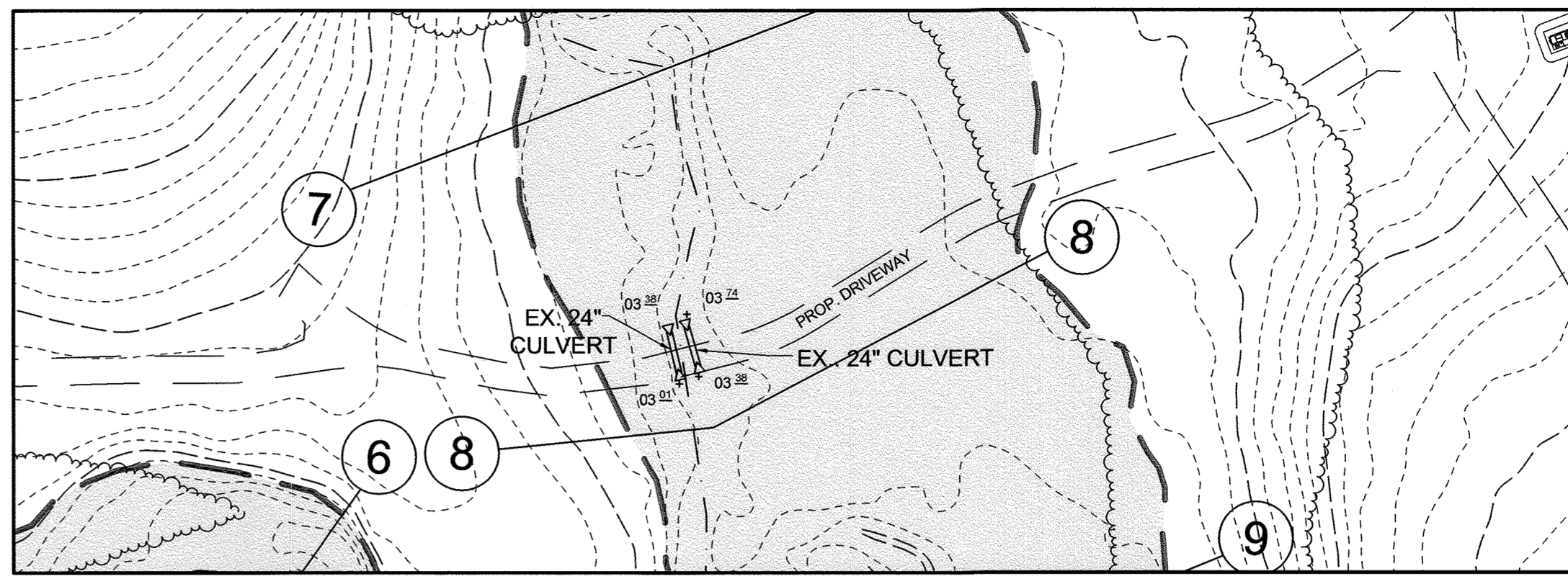
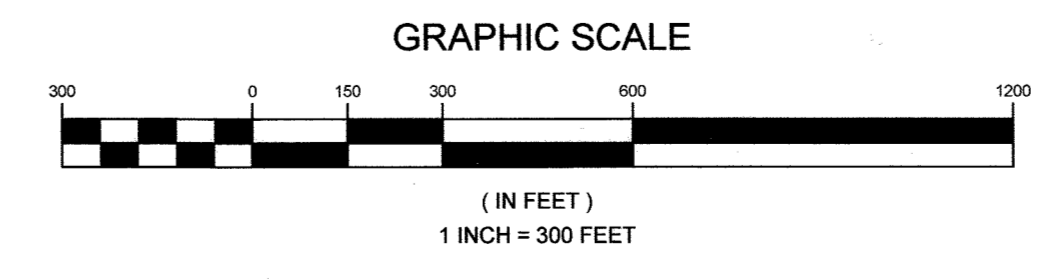
STUDY POINT 1
SEE INSET MAP FOR CROSSING #1

STUDY POINT 4

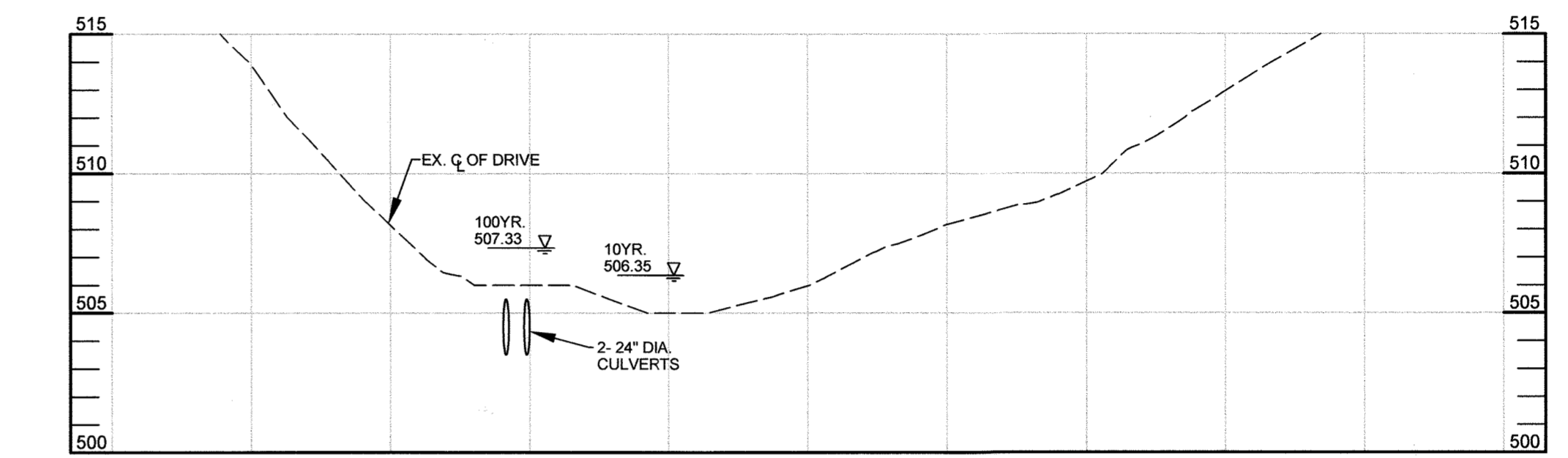
A=53.69 Ac. DA-2 Tc=0.19 HR. P=11%
RCN=73 'B' & 'C' SOIL

PLAN VIEW
SCALE: 1"=300'

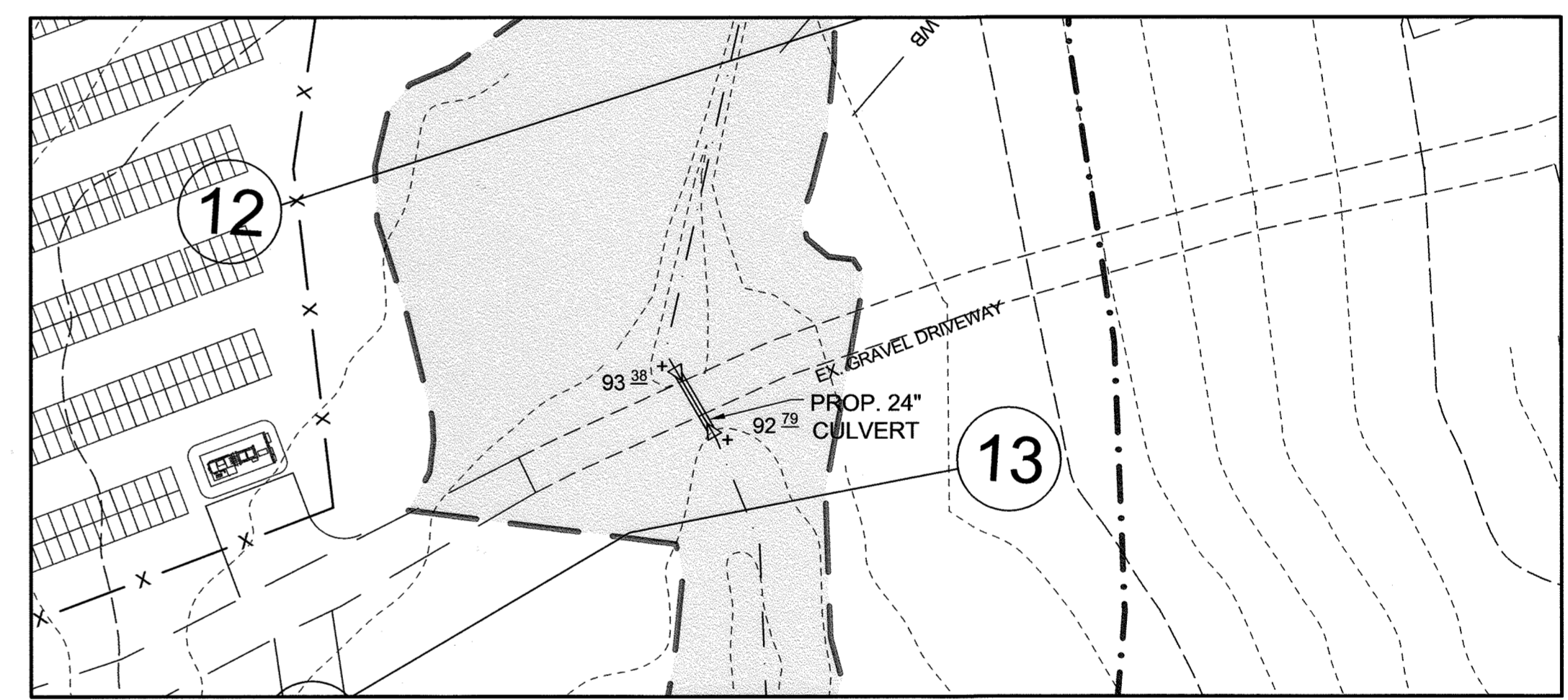
STUDY POINT 3
SEE INSET MAP FOR CROSSING #2



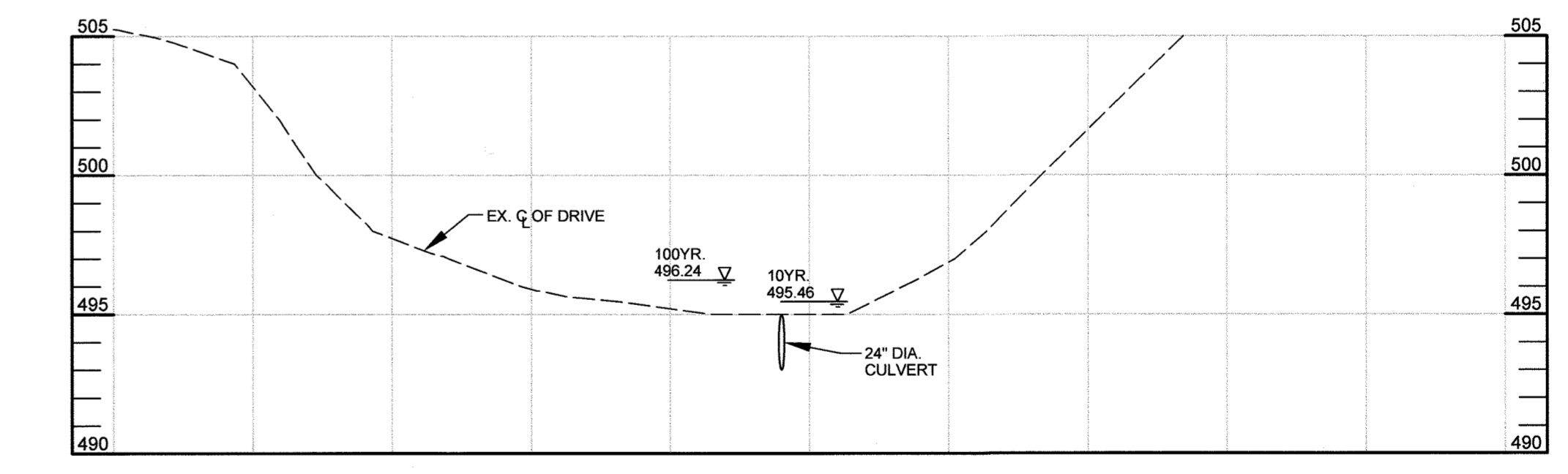
INSET MAP - CROSSING #1
SCALE: 1"=50'



CROSSING #1 - PROFILE
SCALE: HORZ. 1"=50'
VERT. 1"=5'



INSET MAP - CROSSING #2
SCALE: 1"=50'



CROSSING #2 - PROFILE
SCALE: HORZ. 1"=50'
VERT. 1"=5'

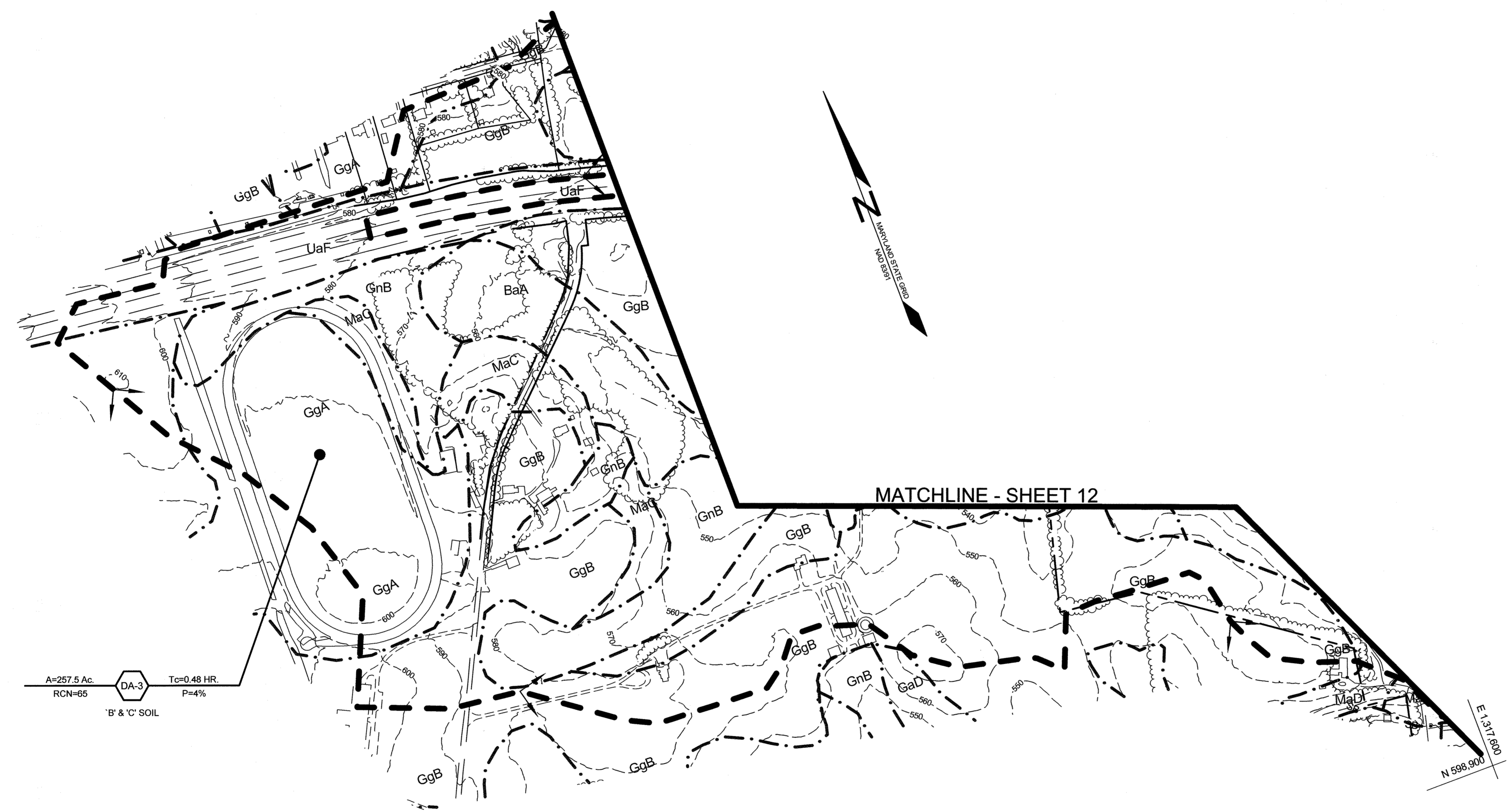
FLOODPLAIN STUDY	
PROPOSED CONDITION DRAINAGE AREA MAP	
CLEAR VIEW FARM SOLAR FACILITY	
13370 ROUTE 144	
TAX MAP 15 GRID 3 3RD ELECTION DISTRICT	PARCEL 73 HOWARD COUNTY, MARYLAND
OWNER CLEAR VIEW FARM, LLC 13370 ROUTE 144 WEST FRIENDSHIP, MD 21794 GEORGE STREAKER, JR. 443-834-2402 GFSJR17@GMAIL.COM	DEVELOPER SUNEAST CLEAR VIEW SOLAR, LLC 110 PHOENIXVILLE PIKE MALVERN, PA 19355 REED WILLS 494-983-3130 REED.WILLS@SUNEASTPOWER.COM
DESIGN BY: JB DRAWN BY: JB CHECKED BY: PS SCALE: AS SHOWN DATE: AUGUST 2, 2021 PROJECT #: 19-044 SHEET #: 12 of 19	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, 2023

LEGEND

- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING DRAINAGE DIVIDE
- SOIL BOUNDARY
- PROPOSED 7' HIGH CHAIN LINK SECURITY FENCE (NO BARBED WIRE)
- EXISTING 100 YEAR FLOODPLAIN & UTILITY EASEMENT
- PROPOSED FLOODPLAIN CROSS SECTION

N 603,600
E 1,317,600

N 603,600
E 1,312,050



A=257.5 Ac. DA-3 Tc=0.48 HR. P=4%
RCN=65 'B' & 'C' SOIL

MATCHLINE - SHEET 12

PLAN VIEW
SCALE: 1"=300'

E 1,317,600
N 598,900

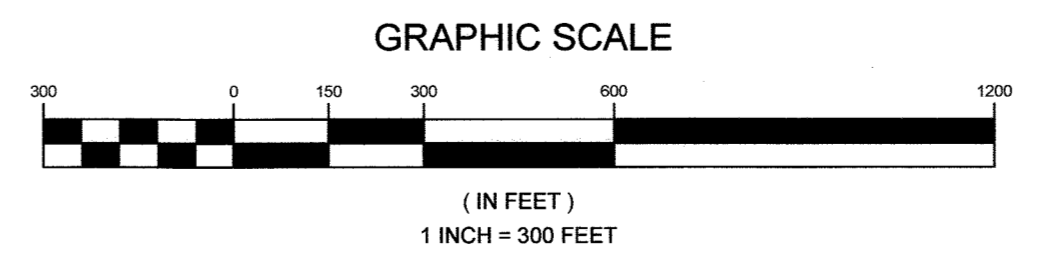
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 8/30/21

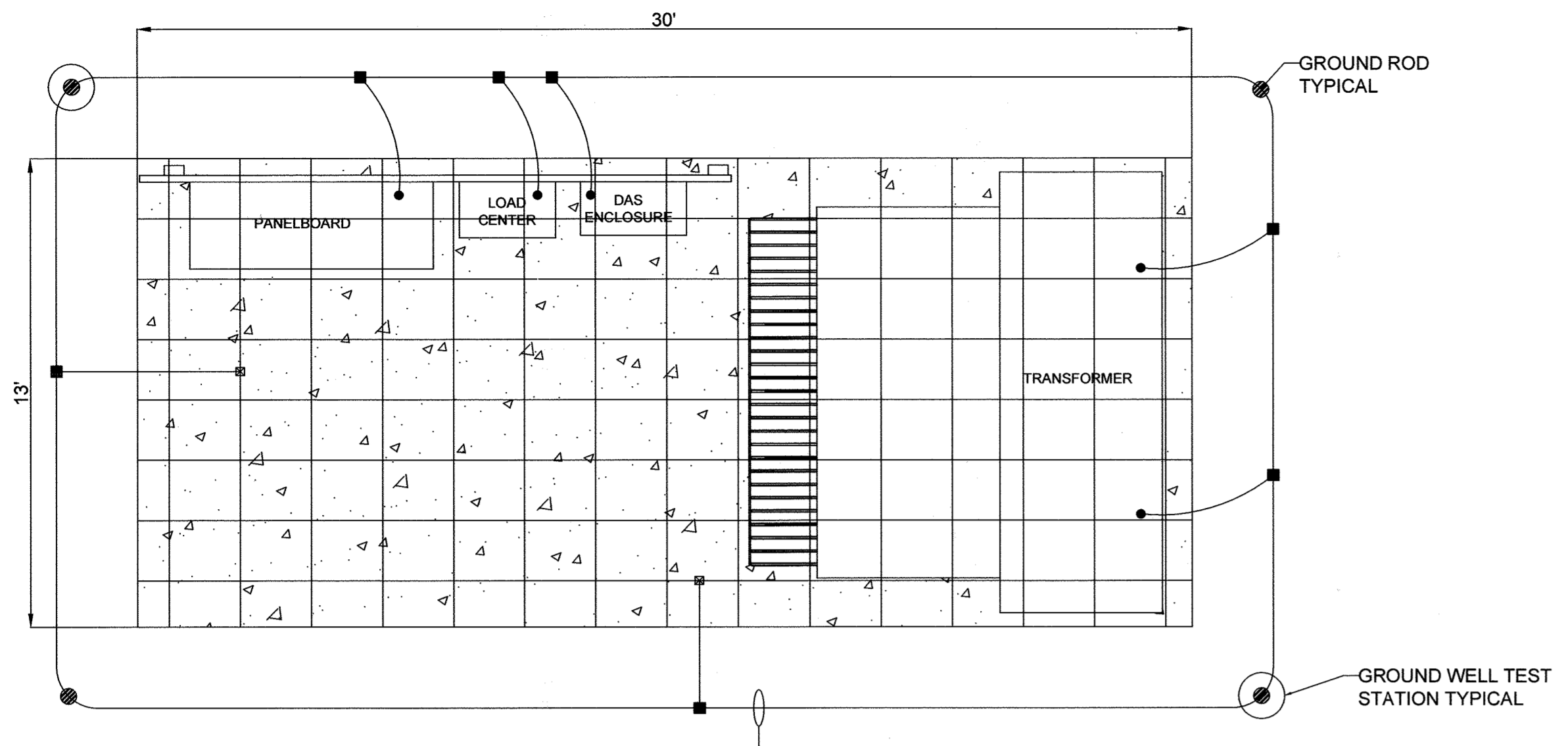
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 8/23/21

OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-834-2402
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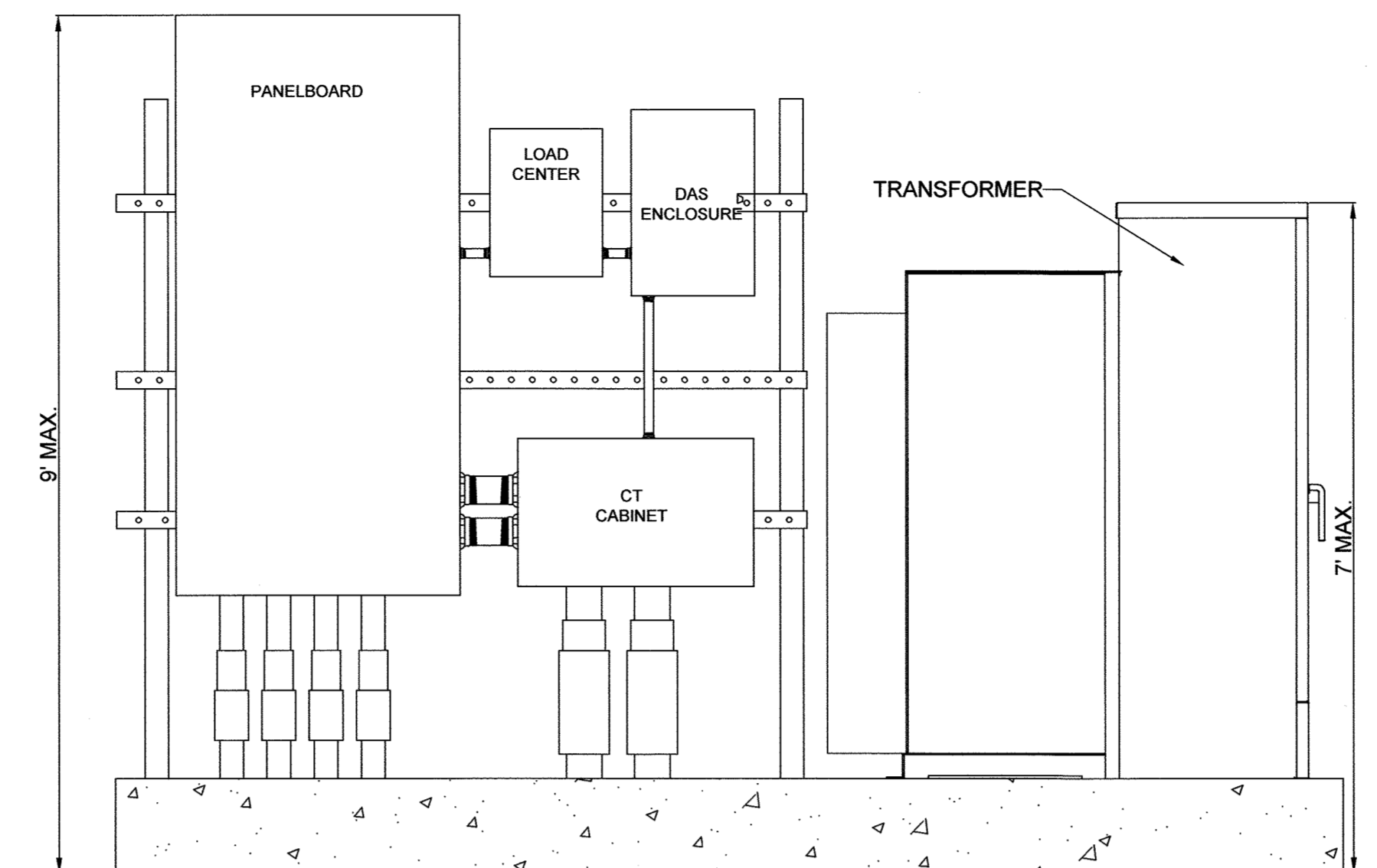


FLOODPLAIN STUDY	
PROPOSED CONDITION DRAINAGE AREA MAP	
CLEAR VIEW FARM SOLAR FACILITY	
13370 ROUTE 144	
TAX MAP 15 GRID 3	PARCEL 73
3RD ELECTION DISTRICT	HOWARD COUNTY, MARYLAND
 SILL ENGINEERING GROUP, LLC 16005 Frederick Road, 2nd Floor Woodbine, Maryland 21797 Phone: 443.325.5076 Fax: 410.696.2022 Email: info@sillengineering.com Civil Engineering for Land Development	DESIGN BY: JB DRAWN BY: JB CHECKED BY: PS SCALE: AS SHOWN DATE: AUGUST 2, 2021 PROJECT #: 19-044 SHEET #: 13 of 15
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. 92025, EXPIRATION DATE: JUNE 20, 2023	



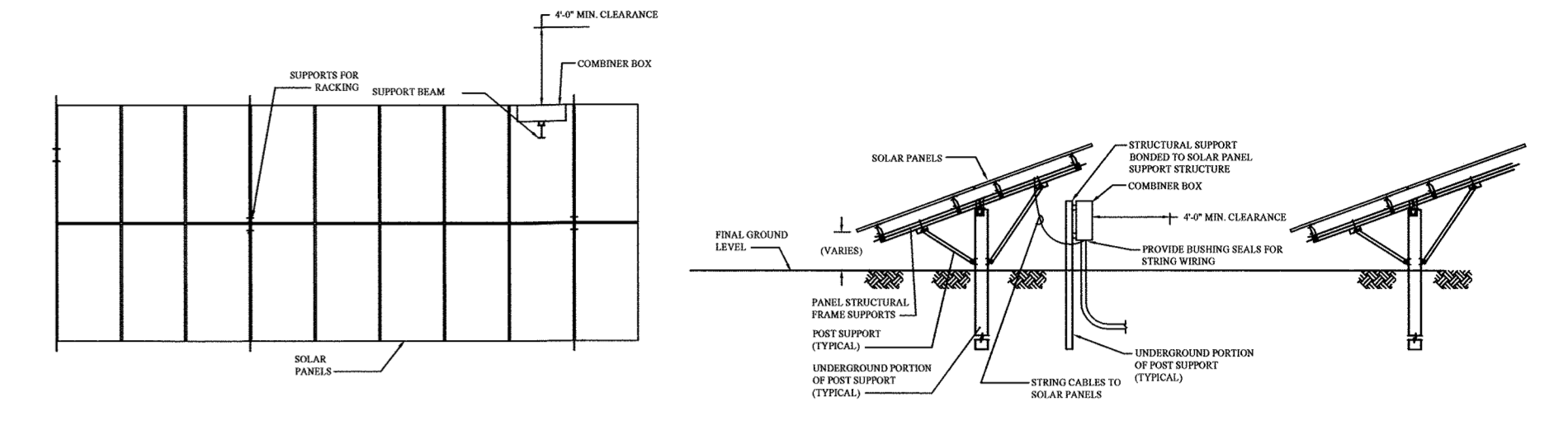
- NOTES:**
1. DETAIL FOR REFERENCE ONLY.
 2. FINAL DESIGN MAY BE ADJUSTED PRIOR TO CONSTRUCTION.

EQUIPMENT PAD PLAN VIEW
NOT TO SCALE



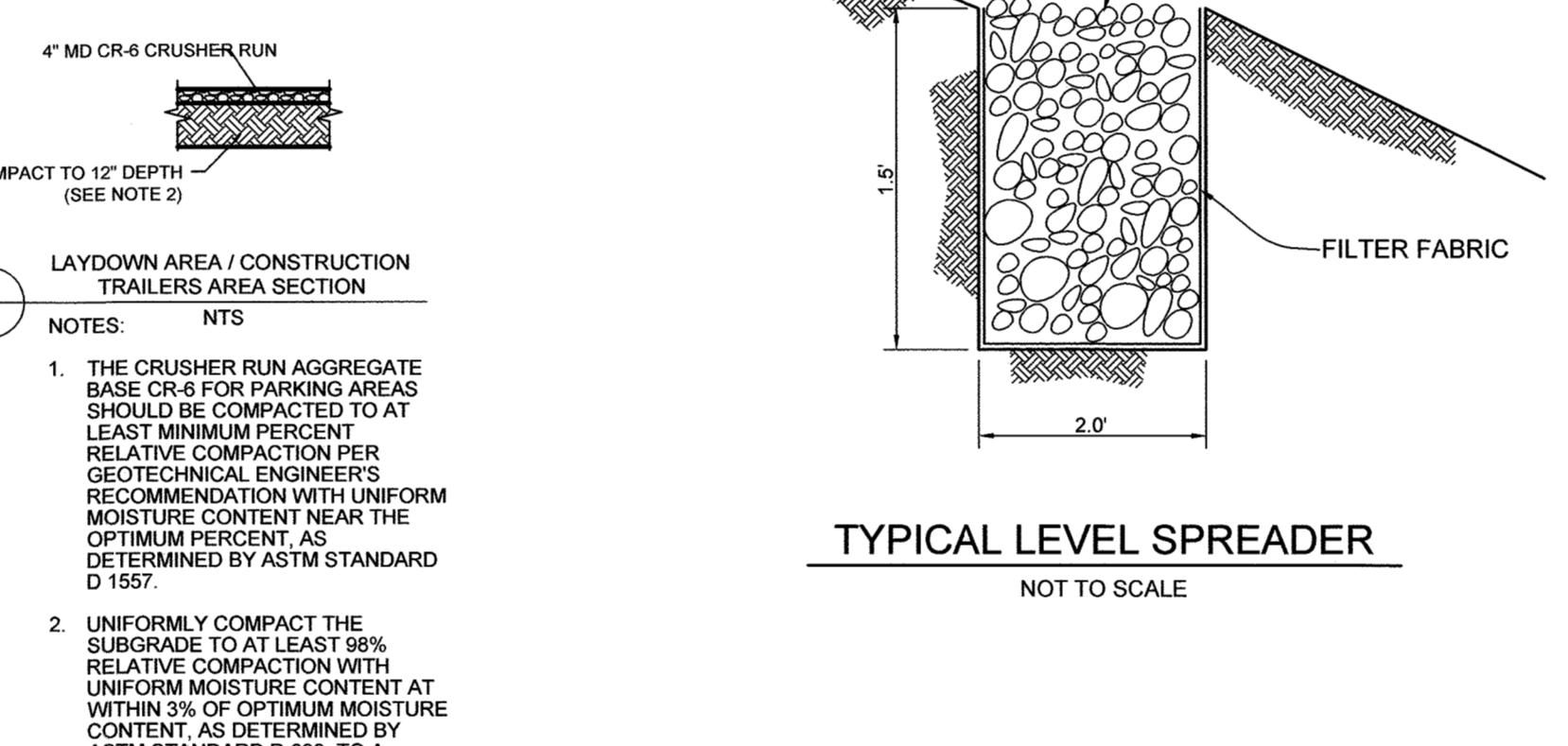
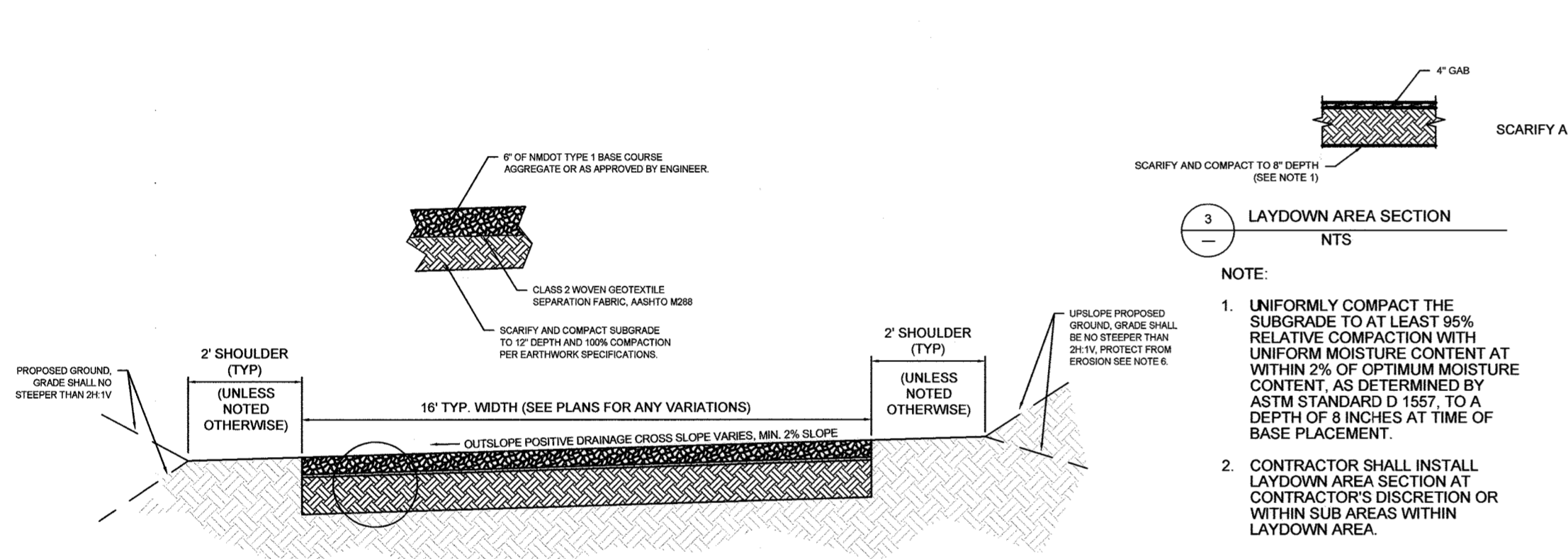
- NOTES:**
1. DETAIL FOR REFERENCE ONLY.
 2. FINAL DESIGN MAY BE ADJUSTED PRIOR TO CONSTRUCTION.

EQUIPMENT PAD ELEVATION VIEW
NOT TO SCALE



- 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



- NOTES:**
1. EXISTING OR NEWLY PLACED DIRT ROADS THAT ARE FAILING DUE TO RUTS, WASHBOARDS, AND/OR POTHOLES MAY EITHER BE RE-BLADED OR BE UPGRADED TO AN AGGREGATE ROAD.
 2. EXISTING OR NEWLY PLACED DIRT ROADS THAT FAIL PROOF ROLLING OR HAVE A LOW IN PLACE DENSITY OBSERVATION MAY EITHER BE SCARIFIED AND RE-COMPACTED OR BE UPGRADED TO AN AGGREGATE ROAD.
 3. UPGRADE THE DIRT ROAD SHALL BE DONE IN ACCORDANCE THE EARTHWORK CONSTRUCTION SPECIFICATIONS SHOWN ON SHEET C-304.
 4. UNIFORMLY COMPACT THE SUBGRADE TO 100% RELATIVE COMPACTION WITH UNIFORM MOISTURE CONTENT AT WITHIN 2% OF OPTIMUM MOISTURE CONTENT, AS DETERMINED BY ASTM STANDARD D 1557, TO A DEPTH OF 12 INCHES AT TIME OF BASE PLACEMENT.
 5. IF THE DIRT ROAD IS FAILING DUE TO STORM WATER RUNOFF CAUSING THE DIRT ROAD TO MUCK UP CONTRACTOR SHOULD REMOVE AT LEAST SIX INCHES OF SOIL, SCARIFY AND COMPACT SOILS TO MEET SPECIFICATIONS WITHIN SECTION 3.14.2, FORM SUBGRADE TO DAYLIGHT AND LOCALLY DRAIN STORM WATER RUNOFF AT FINISHED GRADE, AND THEN PLACE A MINIMUM OF SIX INCHES OF NMDOT TYPE 1 BASE COURSE OR ENGINEER APPROVED EQUIVALENT.
 6. IF CONTRACTOR IS REQUIRED TO RAISE ELEVATION OF UPSLOPE OF OUTSLOPED UPGRADED ROAD CONTRACTOR SHOULD EITHER PLACE A ROCKLINED DIVERSION AROUND RAISED SHOULDER TO DAYLIGHT BACK TO ROAD AT MATCHING ELEVATION OR BUILD SHOULDER UP WITH ASTM 448 NUMBER ONE AGGREGATE WITH A LAYER OF DUMPED RIP RAP ON FAR UPSLOPE SIDE OF BUILT OF SHOULDER.
 7. IF CONTRACTOR EMPLOYS AGGREGATE ROAD IMPROVEMENTS, CONTRACTOR SHALL INSTALL STORM CONTROL BMPS AS REQUIRED BY THE SWPPP.
 8. IF ROAD PROBLEMS PERSIST AFTER CONSTRUCTION OF AGGREGATE ROAD IMPROVEMENT CONTRACTOR IS ENCOURAGED TO CONTACT ENGINEER FOR FURTHER ADVICE.

DIRT ROAD RECOMMENDED PRACTICES:

PERFORM MAINTENANCE WHEN NEEDED. DO NOT WAIT THE LONGER YOU WAIT, THE MORE DAMAGE WILL OCCUR AND REPAIRS WILL BE MORE COSTLY.

KEEP DITCHES AND CULVERTS FREE FROM DEBRIS, BUT MAINTAIN AN EROSION RESISTANT SURFACING SUCH AS GRASS OR ROCK IN THE DITCHES. REMOVE DEBRIS DURING INSPECTIONS. ALSO KEEP OVERFLOW CHANNELS CLEAN.

ROAD GRADE AND SHAPE THE ROAD SURFACE PERIODICALLY TO MAINTAIN PROPER SURFACE DRAINAGE. KEEP THE ROAD SURFACE MOIST DURING GRADING. FILL IN RUTS AND POTHOLES WITH GRAVEL OR COMPACTED FILL AS FREQUENTLY AS POSSIBLE.

KEEP ROLLING DIPS SHAPED AND GRADED. IDEALLY, COMPACT THE FINAL GRADED ROAD SURFACE.

KEEP THE DOWNHILL SIDE OF THE ROAD FREE FROM A BERM EXCEPT WHERE A BERM IS INTENTIONALLY CONSTRUCTED TO CONTROL WATER OR TRAFFIC.

APPLY A SURFACE STABILIZATION MATERIAL, SUCH AS AGGREGATE, COBBLESTONE, OR PAVEMENT, TO THE ROAD SURFACE TO PROTECT THE ROAD FROM DAMAGE AND REDUCE THE FREQUENCY OF MAINTENANCE NEEDED.

AVOID DISTURBING SOIL AND VEGETATION IF NOT NECESSARY. LEAVE AS MUCH VEGETATION (GRASSES) IN DITCHES, ON ROAD SHOULDER AREAS, AND ON CUT OR FILL SLOPES (ESPECIALLY GRASSES AND LOW GROWING BRUSH) AS POSSIBLE. HOWEVER, ENSURE SIGHT DISTANCE AND THAT THE DRAINAGE SYSTEMS STILL FUNCTION PROPERLY.

REMOVE SLIDE MATERIAL FROM THE ROADWAY OR INSIDE DITCHES WHERE THE MATERIAL WILL BLOCK NORMAL ROADWAY SURFACE DRAINAGE.

AVOID WIDENING THE ROAD OR OVER STEEPENING THE FILL SLOPES FORMED BY BLADING SURFACE MATERIAL OFF THE ROAD.

CLOSE THE ROAD DURING VERY WET CONDITIONS OR PERIODS OF INACTIVITY.

INSPECT THE ROAD AT REGULAR INTERVALS, ESPECIALLY FOLLOWING PERIODS OF HEAVY RAINS.

DIRT ROAD RECOMMENDED PRACTICES:

PERFORM MAINTENANCE WHEN NEEDED. DO NOT WAIT THE LONGER YOU WAIT, THE MORE DAMAGE WILL OCCUR AND REPAIRS WILL BE MORE COSTLY.

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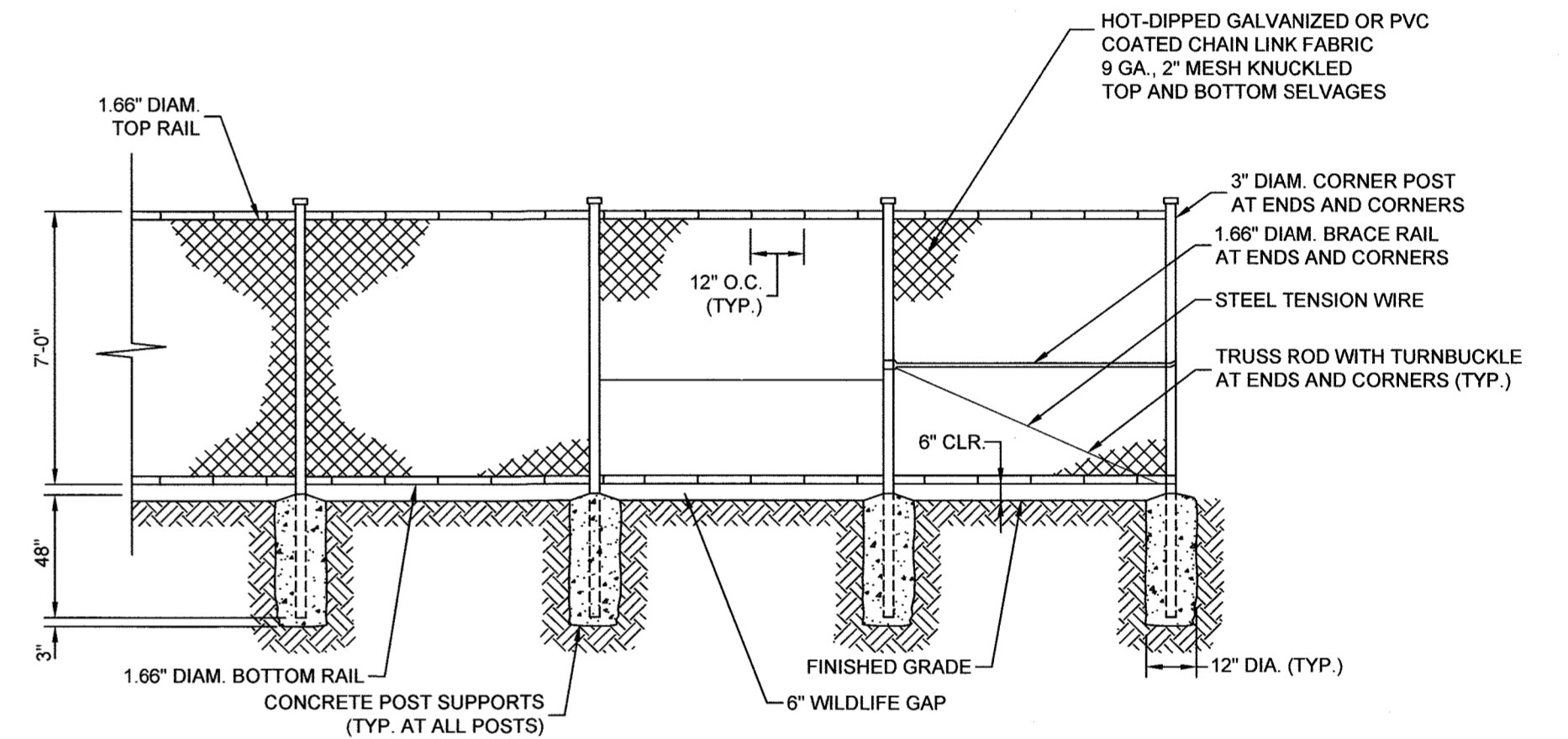
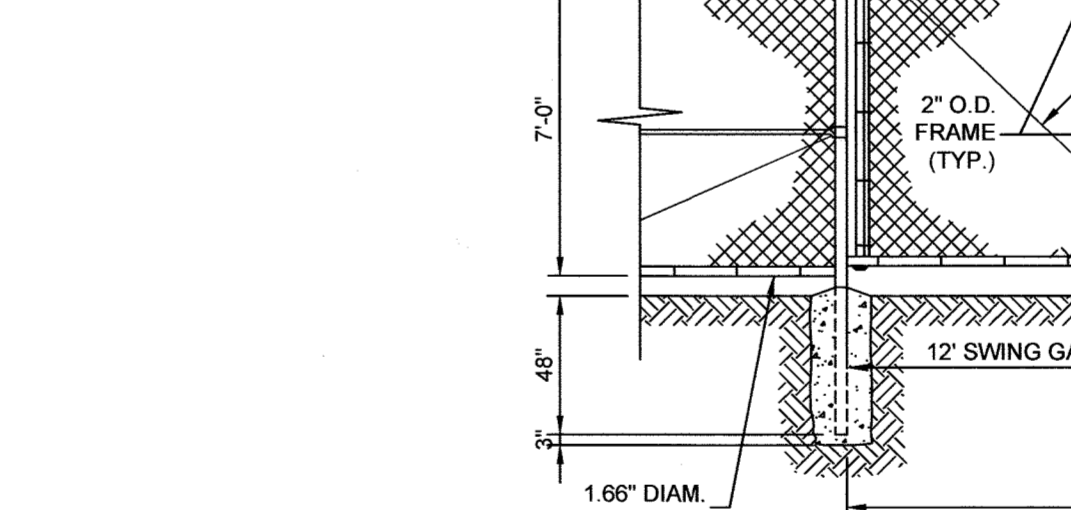
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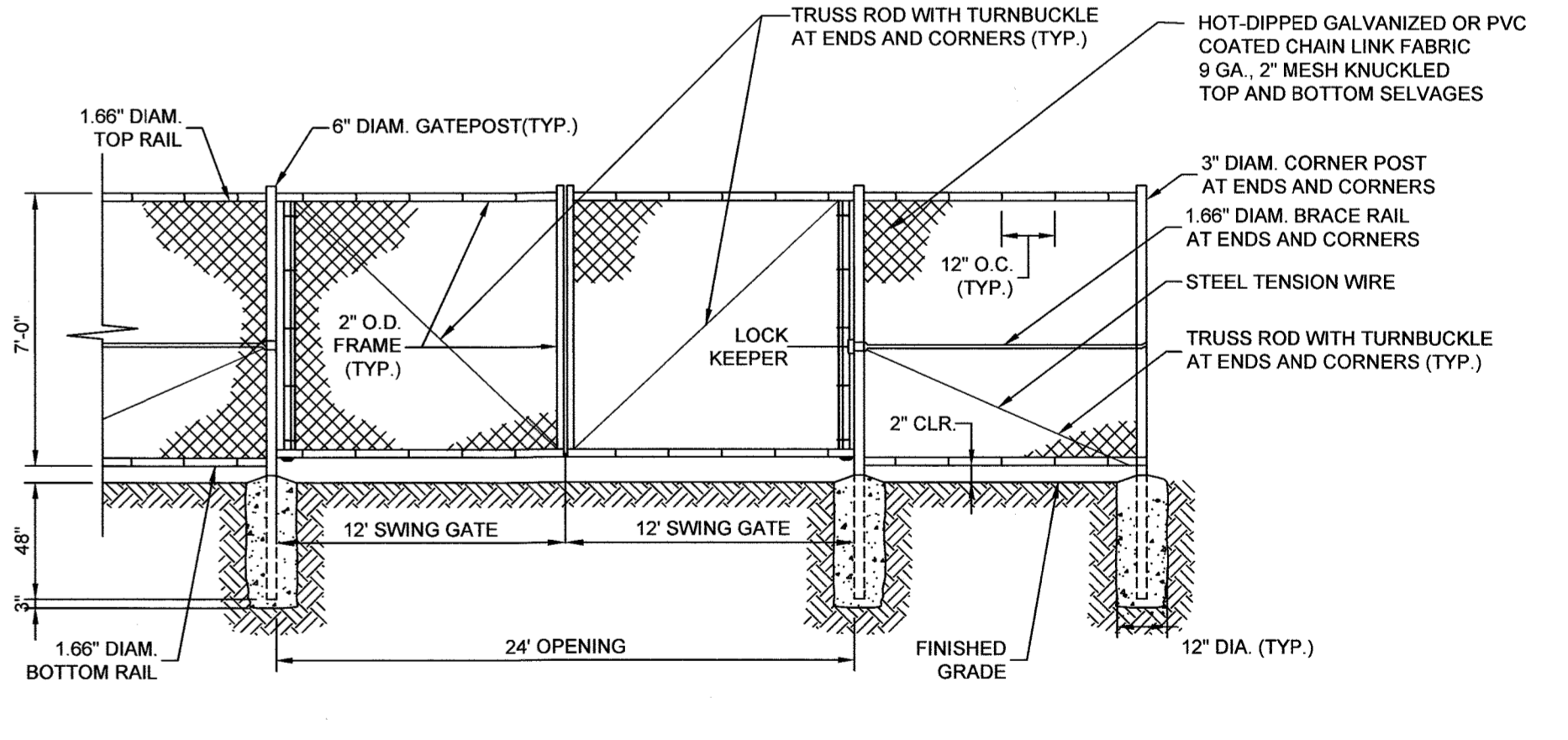
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INSPECT THE ROAD AT REGULAR INTERVALS, ESPECIALLY FOLLOWING PERIODS OF HEAVY RAINS.



VEHICULAR GATE DETAIL
NOT TO SCALE



VEHICULAR GATE DETAIL
NOT TO SCALE

SITE DETAILS

CLEAR VIEW FARM SOLAR FACILITY

13370 ROUTE 144

TAX MAP 15 GRID 3
3RD ELECTION DISTRICT

PARCEL 73
HOWARD COUNTY, MARYLAND

OWNER
CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR.
443-824-2402
GFSJR17@GMAIL.COM

DEVELOPER
SUNEAAT CLEAR VIEW SOLAR, LLC
110 PHOENIXVILLE PIKE
MALVERN, PA 19355
REED WILLS
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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: AUGUST 2, 2021
PROJECT #: 19-044
SHEET #: 14 of 16

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. 32028, EXPIRATION DATE: JUNE 20, 2023.

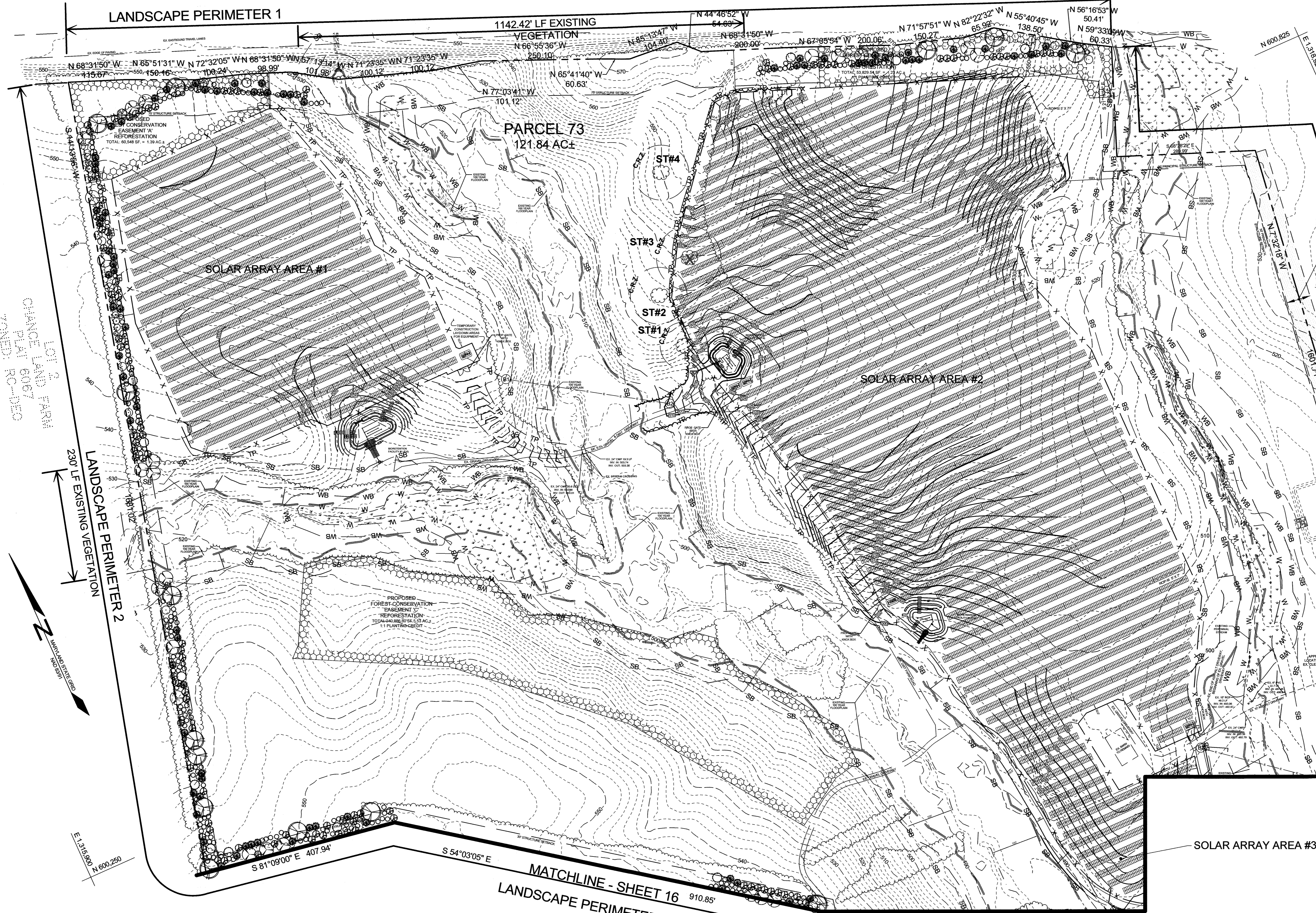
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION

DATE: 8/23/24

CHIEF, DIVISION OF LAND DEVELOPMENT

DATE: 8/23/24



LEGEND	
EXISTING CONTOUR GIS	---
EXISTING CONTOUR FIELD RUN	---
PROPOSED CONTOUR	---
EXISTING SPOT ELEVATION	+
PROPOSED SPOT ELEVATION	+
DIRECTION OF FLOW	→
EXISTING TREELINE	~
PROPOSED TREELINE	~
EXISTING WETLAND	W
EXISTING 25' WETLAND BUFFER	WB
EXISTING STREAM	---
EXISTING 100' STREAM BUFFER	SB
EXISTING 100-YEAR FLOODPLAIN	---
PROPOSED FENCE LINE	- X - X -
PROPOSED UTILITY	- E - E -
PROPOSED PERMANENT SWALE	==>
EXISTING SPECIMEN TREE	ST#4
EXISTING SPECIMEN TREE TO BE REMOVED	X
PROPOSED SOLAR PANELS	
PROPOSED GATE	W
LANDSCAPE PERIMETER INDICATOR	LANDSCAPE PER. 2
EXISTING VEGETATION INDICATOR	286 L.F. EXISTING VEGETATION
PROPOSED EVERGREEN TREE	IO OJV TP
PROPOSED DECIDUOUS TREE	QR PO CCF
	AC NS CC

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

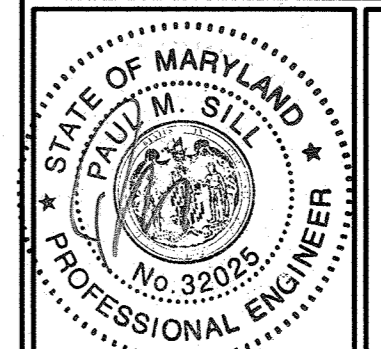
TAX MAP 15 GRID 3 3RD ELECTION DISTRICT

PARCEL 73 HOWARD COUNTY, MARYLAND

LANDSCAPE PLAN CLEAR VIEW FARM SOLAR FACILITY 13370 ROUTE 144

OWNER
CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR.
443-434-2402
GFSJR17@GMAIL.COM

DEVELOPER
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110 PHOENIXVILLE PIKE
MALVERN, PA 19355
REED WILLS
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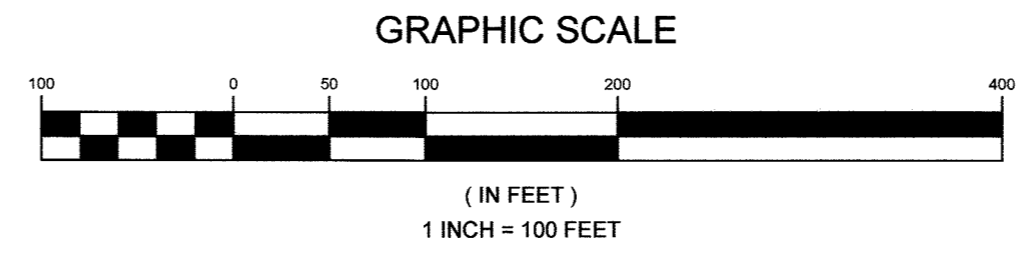
SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: JC
DRAWN BY: JC
CHECKED BY: PS
SCALE: AS SHOWN
DATE: AUGUST 2, 2021
PROJECT #: 19-044
SHEET #: 15 of 16

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. 32023, EXPIRATION DATE: JUNE 20, 2023

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 8/30/21
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 8/30/21

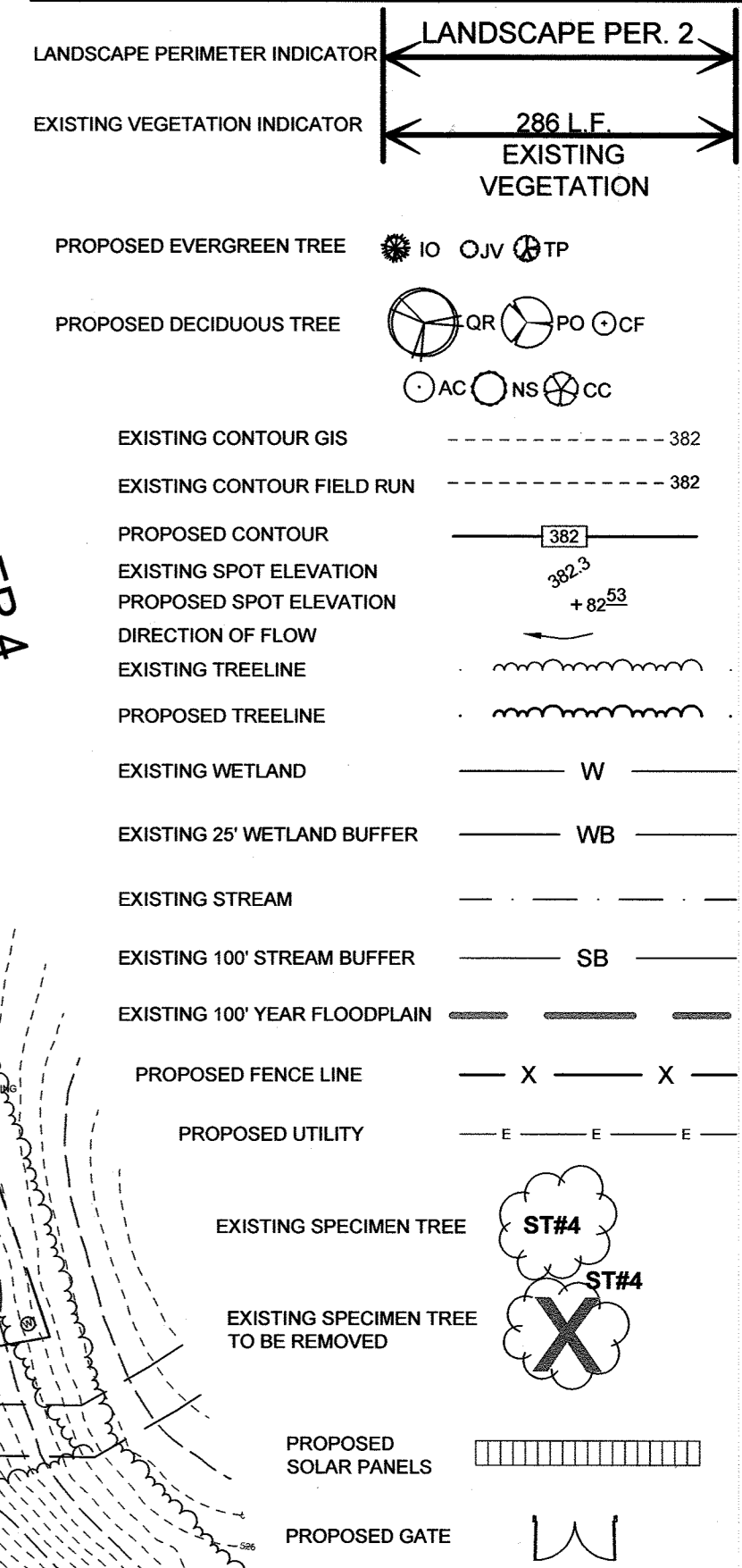
PLAN VIEW
SCALE: 1"=100'



MATCHLINE - SHEET 16
LANDSCAPE PERIMETER 2

SOLAR ARRAY AREA #3

LEGEND



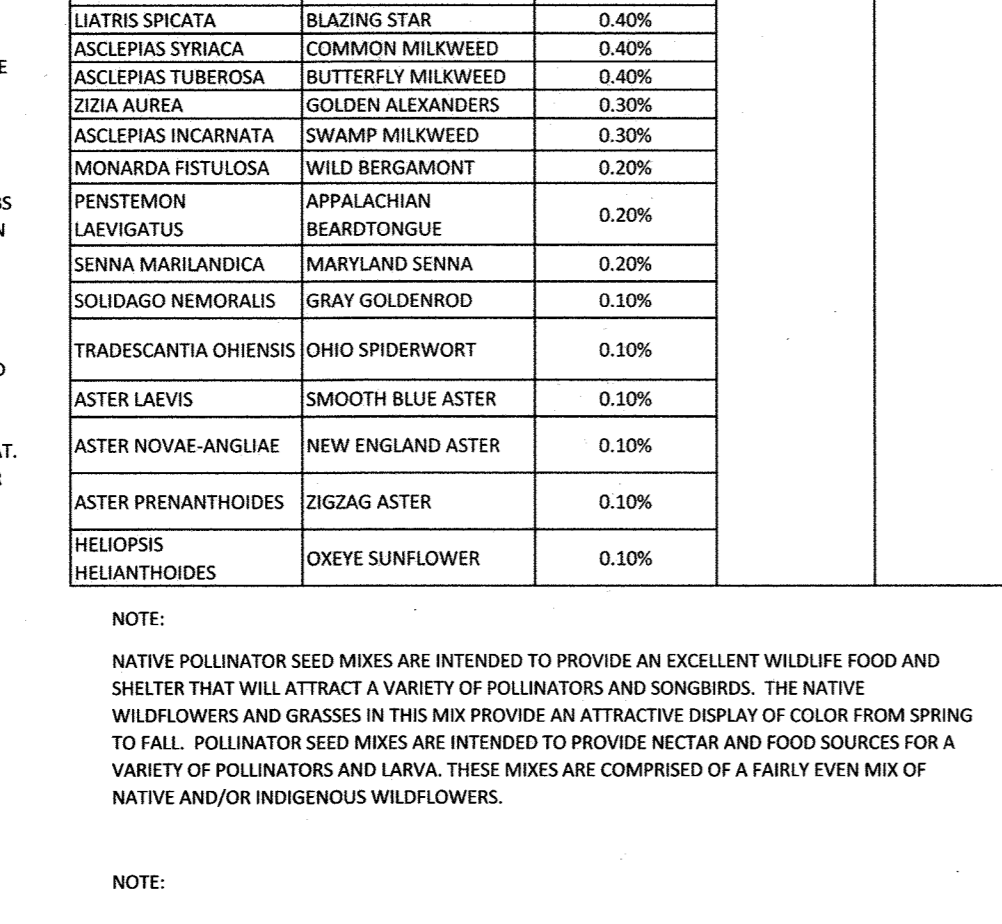
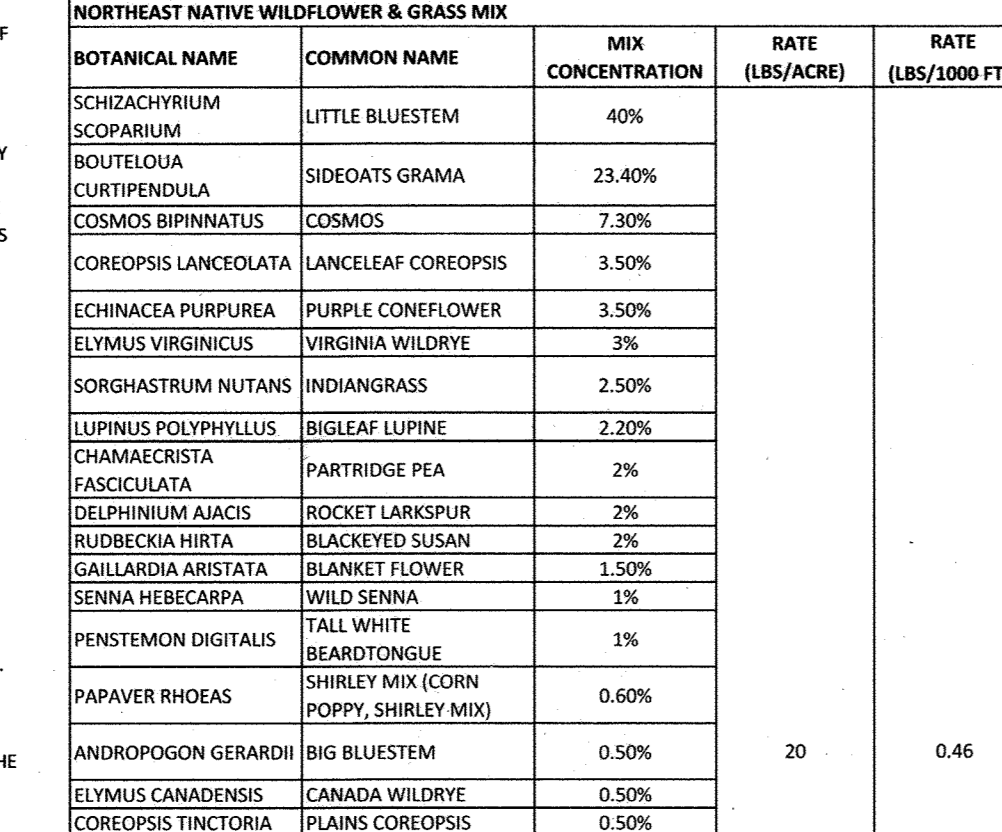
GENERAL LANDSCAPE AND SEEDING NOTES

- THE LANDSCAPE PLAN AND DETAILS ARE FOR LANDSCAPING INFORMATION ONLY. PLEASE REFER TO THE SITE LAYOUT PLAN, GRADING PLAN AND/OR UTILITIES PLAN FOR ALL OTHER INFORMATION.
- THE CONTRACTOR SHALL MONITOR AND GUARANTEE THAT ALL PLANTS, TREES, AND SHRUBS SHALL BE HEALTHY AND FREE OF DISEASE FOR THE LIFETIME OF THE PROJECT AFTER SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER. CONTRACTOR SHALL REPLACE ANY DEAD OR UNHEALTHY PLANTS AT CONTRACTOR'S EXPENSE. FINAL ACCEPTANCE SHALL BE MADE IF ALL PLANTS MEET THE GUARANTEE REQUIREMENTS INCLUDING MAINTENANCE, MAINTENANCE RESPONSIBILITIES INCLUDE INVASIVE SPECIES MONITORING, REMOVAL, AND SUPPLEMENTATION. MONITORING OF THE PROJECT SITE SHALL OCCUR IN THE SPRING AND THE FALL TO DETERMINE THE PRESENCE OF INVASIVE SPECIES. SHOULD ANY INVASIVE SPECIES BE IDENTIFIED WITHIN THE PROJECT SITE, THE INVASIVE SPECIES SHALL BE REMOVED ACCORDING TO METHODS MOST LIKELY TO BE EFFECTIVE IN CONTROLLING THAT SPECIES AND SUPPLEMENTING ITS REPLACEMENT WITH APPROPRIATE VEGETATION AND SEED MIX IDENTIFIED (AND APPROVED) ON THIS PLAN AND/OR AN APPROVED EQUAL. ADDITIONAL MAINTENANCE RESPONSIBILITIES INCLUDE: APPROVED CULTIVATING, SPRAYING, WEEDING, WATERING, TIGHTENING OF TREE STRAP GUSSETS, PRUNING, FERTILIZING, MULCHING, AND ANY OTHER OPERATIONS NECESSARY TO MAINTAIN PLANT VIABILITY. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND CONTINUE FOR THE DURATION OF SOLAR ARRAY USE BY THE OWNER/OPERATOR AFTER FINAL ACCEPTANCE. WATERING OF THE LANDSCAPE BUFFER AREAS SHALL BE IMPLEMENTED BY THE USE OF A WATERING TRUCK.
- THE CONTRACTOR SHALL SUPPLY ALL LABOR, PLANTS, APPROVED SEEDING MIX, AND MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWING(S) AND LISTED IN THE PLANT SCHEDULE(S) AND/OR SEEDING TABLE(S). IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN IN THE PLANT SCHEDULE AND/OR SEEDING TABLE AND THOSE REQUIRED BY THE DRAWINGS, THE LARGER SHALL APPLY. ALL PLANTS SHALL BE ACCUMULATED BY THE SUPPLY WAREHOUSE TO THE LOCAL WAREHOUSE AND BE CERTIFIED THAT THE PLANTING MATERIAL HAS BEEN GROWN FOR A MINIMUM OF (2) TWO YEARS AT THE SOURCE AND OBTAINED WITHIN 200 MILES OF PROJECT SITE UNLESS OTHERWISE APPROVED BY OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT.
- THE LOCATIONS FOR PLANT MATERIAL ARE APPROXIMATE AND ARE SUBJECT TO FIELD ADJUSTMENT DUE TO SOIL, VEGETATION, AND SITE FACTORS SUCH AS THE LOCATION OF ROCKS OUTCROPPS. PRIOR TO PLANTING THE CONTRACTOR SHALL ACCURATELY STAKE OUT THE LOCATIONS FOR ALL PLANTS. THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT SHALL APPROVE THE FIELD LOCATIONS OR ADJUSTMENTS OF THE PLANT MATERIAL.
- ALL SHRUB MASSING SHALL BE MULCHED TO A DEPTH OF 2" AND SHREDDED HARDWOOD BARK MULCH SHALL BE USED FOR SHRUB MASSING AREAS.
- NO PLANT SHALL BE PLACED IN THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT. STAKING THE LOCATION OF ALL TREES AND SHRUBS SHALL BE COMPLETED PRIOR TO PLANTING FOR APPROVAL BY THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT. STAKING OF THE INSTALLED TREE MUST BE COMPLETED THE SAME DAY AS IT IS INSTALLED. ALL TREES SHALL BE STAKED OR GUYED AS PER THE DETAIL. SEE (LANDSCAPING PLANS) FOR PLANTING DETAILS.
- COORDINATE PLANT MATERIAL LOCATIONS WITH SITE UTILITIES. SEE SITE LAYOUT, GRADING AND/OR UTILITY PLANS FOR STORM, SANITARY, GAS, ELECTRIC, TELEPHONE AND WATER LINES. UTILITY LOCATIONS ARE APPROXIMATE. EXERCISE CARE WHEN DIGGING IN AREAS OF POTENTIAL CONFLICT WITH UNDERGROUND OR OVERHEAD UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONTRACTOR'S NEGLIGENCE AND SHALL REPLACE OR REPAIR ANY DAMAGE AT CONTRACTOR'S EXPENSE.
- LANDSCAPE PLANTING PITS MUST BE FREE DRAINING, PAVEMENT, COMPACTED SUBGRADE, AND BLASTED ROCK SHALL BE REMOVED TO A DEPTH OF 2" OR TO A GREATER DEPTH IF REQUIRED BY PLANTING DETAILS OR SPECIFICATIONS. REPLACE SOIL WITH MODERATELY COMPACTED LOAM OR SANDY LOAM FREE FROM STONES AND RUBBISH 1" OR GREATER IN DIAMETER AND ANY OTHER MATERIAL HARMFUL TO PLANT GROWTH AND DEVELOPMENT. PLANTING INSTALLATION SHALL BE AS DETAILED AND CONTAIN PLANTING MIX AS SPECIFIED UNLESS OTHERWISE BY SOIL ANALYSIS.

BOTANICAL NAME	COMMON NAME	MIX CONCENTRATION	RATE (LBS/ACRE)	RATE (LBS/1000 FT ²)
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	40%		
BOUQUETONIA	SIDEONTS GRAMA	23.40%		
COSMOS BIPINNATUS	COSMOS	7.30%		
COREOPSIS LANCEOLATA	LANCELEAF COREOPSIS	3.50%		
ECHINACEA PURPUREA	PURPLE CONEFLOWER	3.50%		
ELYMUS VIRGINICUS	VIRGINIA WILDRYE	3%		
SORGHASTRUM NUTANS	INDIANGRASS	2.50%		
LUPINUS POLYPHYLLUS	BIGLEAF LUPINE	2.20%		
CHAMAECRISTA	PARTRIDGE PEA	2%		
FASCICULATA	ROCKET LANSPIR	2%		
DELOPHINIUM JACIS	BLACKEYED SUSAN	2%		
RUBICECKIA HIRTA	BLANKET FLOWER	1.50%		
GALLIARDIA ARISTATA	WILD SENNA	1%		
SENNA HEBCARPA	TALL WHITE BEARDTONGUE	1%		
PENSTEMON DIGITALIS	SHIRLEY MIX (CORN POPPY, SHIRLEY MIX)	0.60%		
PAPAVER RHOEAS	BIG BLUESTEM	0.50%	20	0.46
ANDROPOGON GERARDII	CANADA WILDRYE	0.50%		
ELYMUS CANADENSIS	PLAINS COREOPSIS	0.50%		
COREOPSIS TINCTORIA	BLAZING STAR	0.40%		
LIATRIS SPICATA	COMMON MILKWEEED	0.40%		
ASCLEPIAS SYRIACA	BUTTERFLY MILKWEEED	0.40%		
ASCLEPIAS TUBEROSA	GOLDEN ALEXANDERS	0.30%		
Zizia AUREA	SWAMP MILKWEEED	0.30%		
ASCLEPIAS INCARNATA	WILD BERGAMONT	0.20%		
MONARDA FISTULOSA	APPALACHIAN BEARDTONGUE	0.20%		
PENSTEMON LAEVIGATUS	MARYLAND SENNA	0.20%		
SENNA MARILANDICA	GRAY GOLDENROD	0.10%		
SOLIDAGO NEMORALIS	OHIO SPIRDEWORT	0.10%		
TRIDESCANLIA OHIENSIS	SMOOTH BLUE ASTER	0.10%		
ASTER LAEVIS	NEW ENGLAND ASTER	0.10%		
ASTER NOVAE-ANGLIAE	ZIGZAG ASTER	0.10%		
ASTER PRENANTHOIDES	OXEYE SUNFLOWER	0.10%		
HELIOPSIS HELIANTHOIDES				

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 8/30/21
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 8/30/21

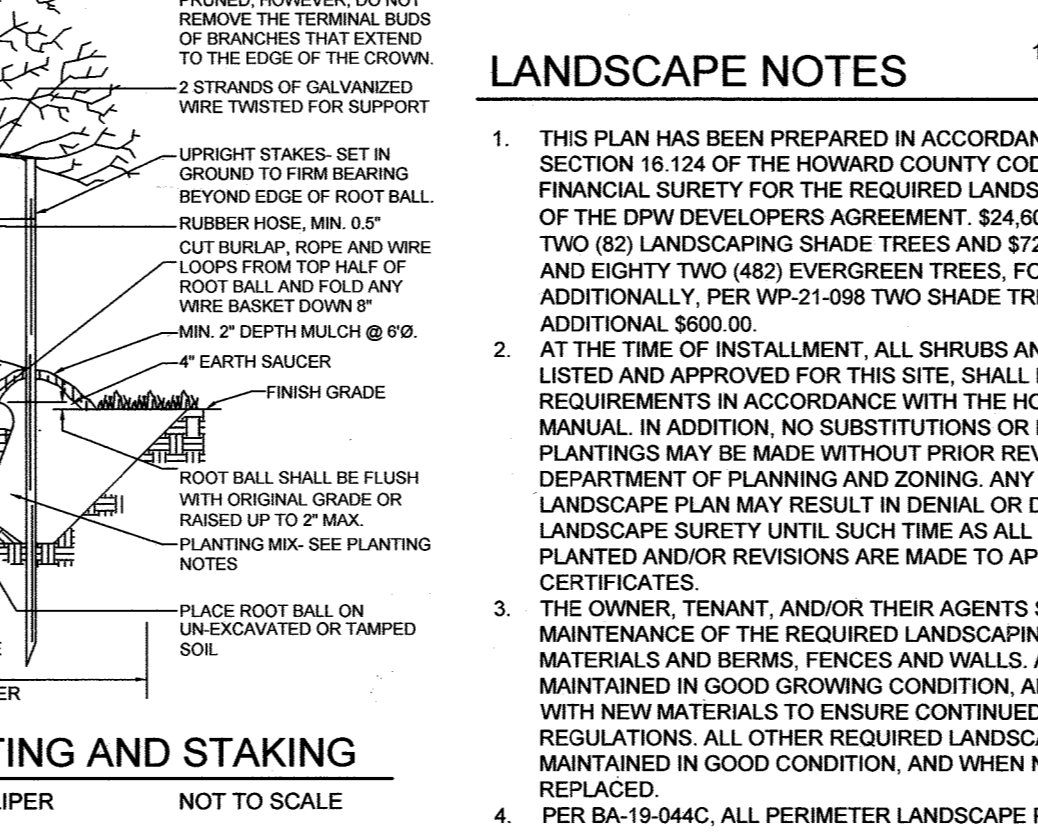
PARCEL 66 HOWARD F. STREAKER JR. E. 318 F. 186 ZONED: RC-DEO
 PARCEL 73 121.84 AC ±
 PARCEL 107 ZONED: RC-DEO
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 PARCEL 200 ZONED: RC-DEO



LANDSCAPE PLANT LIST

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	NOTE
PO	33 (PLUS 2, SEE NOTE BELOW)	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2 1/2" - 3" CAL	B & B FULL HEAD
NS	12	NYSSA SYLVATICA	BLACK TUPELO	2 1/2" - 3" CAL	B & B
QR	19	QUERCUS RUBRA	NORTHERN RED OAK	2 1/2" CAL	B & B
AC	7	AMELANCHIER CANADENSIS	SERVICEBERRY	2 1/2" - 3" CAL	B & B, MULTI STEM
CF	3	CERCIS CANADENSIS	EASTERN REDBUD	2 1/2" - 3" CAL	B & B, MULTI STEM
CF	6	CORNUS FLORIDA	FLOWERING DOGWOOD	2 1/2" CAL	B & B
IO	121	ILEX OPACA	AMERICAN HOLLY	5'-6" HT.	B & B, FULL
OJV	196	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6'-8" HT.	B & B, FULL
TP	124	THUJA PLICATA	GREEN GIANT ARBORVITAE	5'-6" HT.	B & B, FULL

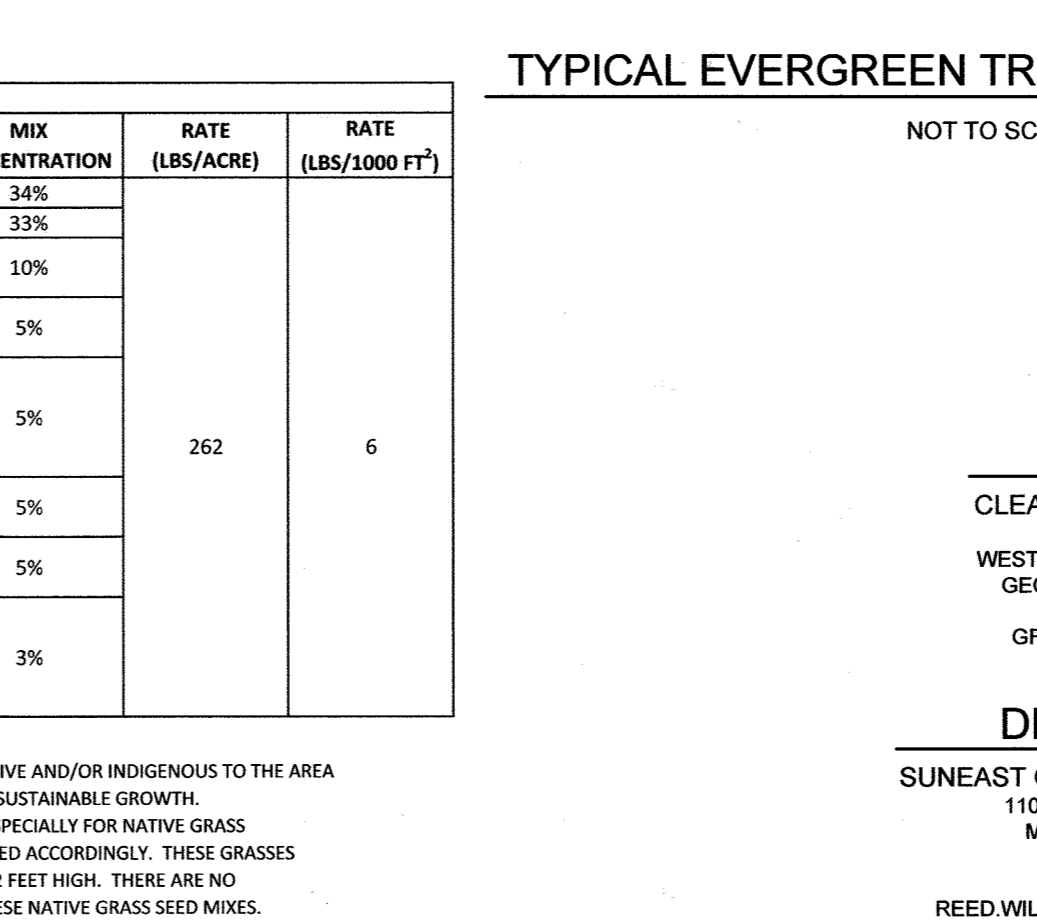
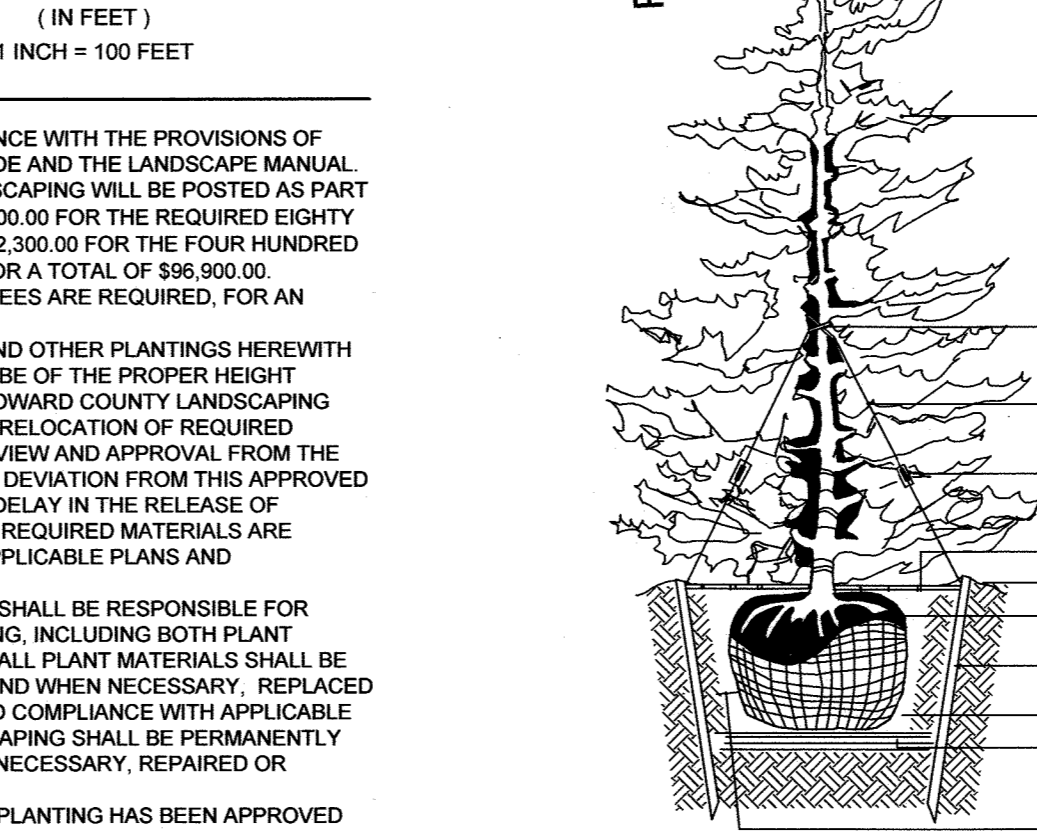
NOTE: IF THERE IS A CONFLICT BETWEEN THE PLANT LIST AND THE PLANS, THE LARGER NUMBER PREVAILS.
 PER WP-21-098, TWO 3" CALIBER SHADE TREES ARE TO BE PLANTED FOR THE REMOVAL OF ST-3. THEY HAVE BEEN ADDED AT BUFFER A.



NATIVE/NATURALIZED SOLAR FARM SEED MIX

BOTANICAL NAME	COMMON NAME	MIX CONCENTRATION	RATE (LBS/ACRE)	RATE (LBS/1000 FT ²)
FESTUCA RUBRA	CREeping RED FESCUE	34%		
FESTUCA OVINA	SHEEP FESCUE	33%		
FESTUCA BREVIFLUA 'BEACON'	HARD FESCUE 'BEACON'	10%		
FESTUCA OVINA VAR. DURISUSCULA 'RHINO'	HARD FESCUE 'RHINO'	5%		
FESTUCA OVINA VAR. GLAUCA 'F. ARVERNENSIS' (F. GLAUCA, 'BLUE RAY')	BLUE FESCUE 'BLUE RAY'	5%	262	6
POA PRATENSIS 'ARGYLE'	KENTUCKY BLUEGRASS 'ARGYLE'	5%		
POA PRATENSIS	KENTUCKY BLUEGRASS 'SHAMROCK'	5%		
AGROSTIS PERENNANS	AUTUMN BENTGRASS	3%		
ALBANY PINE BUSH-NY ECOTYPE	ALBANY PINE BUSH-NY ECOTYPE			

GRASS SEED MIXES ARE COMPRISED OF GRASSES THAT ARE NATIVE AND/OR INDIGENOUS TO THE AREA AND/OR CONSIDERED FAVORABLE FOR WILDLIFE HABITAT AND SUSTAINABLE GROWTH. ADDITIONALLY, THE SOLAR FARM SEED MIX WAS DEVELOPED ESPECIALLY FOR NATIVE GRASS PLANTINGS AROUND SOLAR ARRAY FIELDS AND SHALL BE UTILIZED ACCORDINGLY. THESE GRASSES WILL MATURE OUT TO A HEIGHT OF APPROXIMATELY 2 TO 2 1/2 FEET. THERE ARE NO WILDFLOWER OR POLLINATOR SEED SPECIES CONTAINED IN THESE NATIVE GRASS SEED MIXES.



NOTE: ALL MATERIALS AS SPECIFIED

SCHEDULE A PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES		
PERIMETER/FRONTAGE DESIGNATION	1	2		
LANDSCAPE TYPE	3	4		
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	2204 (6')	1326 (4')	4051 (9')	N/A*
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	YES 1142.4	YES 360.0	YES 1279.6	
REMAINING PERIMETER LENGTH CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET)	1082.2	966.4	2772.3	
REMAINING PERIMETER LENGTH NUMBER OF PLANTS REQUIRED				
SHADE TREES	1:60=18	1:60=17	1:60=47	
EVERGREEN TREES	1:10=107	1:10=97	1:10=278	
SHRUBS				
NUMBER OF PLANTS PROVIDED	SEE NOTE 1	SEE NOTE 2	SEE NOTE 2	
SHADE TREES	1:60=18	1:60=17	1:60=47	
EVERGREEN TREES	1:10=107	1:10=97	1:10=278	

NOTE: 1. 4 UNDER STORY TREES SUBSTITUTED FOR 3 SHADE TREES.
 2. 12 UNDER STORY TREES SUBSTITUTED FOR 6 SHADE TREES.
 3. PER WP-21-098, TWO 3" CALIBER SHADE TREES SHALL BE PLANTED AS PART OF THE MITIGATION FOR REMOVAL ST-3.
 *NO PERIMETER PLANTING REQUIRED FOR PERIMETER 4, SINCE THIS IS A JOINT DEVELOPMENT WITH PARCEL 146, SGP-21-047, PER BA-19-044C, ALL PERIMETERS TO BE A TYPE 'D'

JOANNE CAREY, RLA 4148
 MD DNR QUALIFIED PROFESSIONAL

OWNER: CLEAR VIEW FARM, LLC
 DEVELOPER: SUNEAST CLEAR VIEW SOLAR, LLC
 DESIGN BY: PS
 DRAWN BY: JC
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: AUGUST 2, 2021
 PROJECT #: 19-044
 SHEET #: 16 OF 16