DRAWINGS FOR CONCEPT SITE DEVELOPMENT PLAN

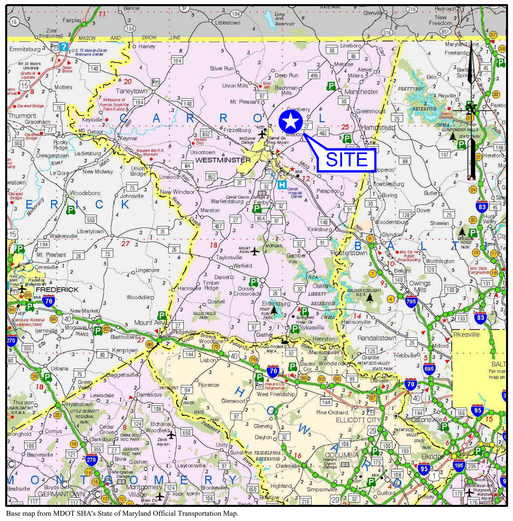
CHABERTON SOLAR PINE ROCK

WESTMINSTER, CARROLL COUNTY, MARYLAND

MAY 2025

LIST OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	EXISTING SITE CONDITIONS PLAN
3	OVERALL PROPOSED SITE CONDITIONS & SWM PLAN
4	PROPOSED SITE CONDITIONS & SWM PLAN
5	PROPOSED SITE CONDITIONS & SWM PLAN
6	PROPOSED SITE DETAILS
7	PROPOSED SITE DETAILS
8	SIGHT DISTANCE PLAN
9	CONCEPTUAL SEDIMENT CONTROL PLAN
10	CONCEPTUAL SEDIMENT CONTROL PLAN
11	EROSION & SEDIMENT CONTROL DETAILS
12	EROSION & SEDIMENT CONTROL NOTES



Base map from MDOT SHA's State of Maryland Official Transportation Map.

VICINITY MAP

SCALE: 1" = 6 Miles

PREPARED FOR DEVELOPER:
CHABERTON SOLAR PINE ROCK LLC
1700 ROCKVILLE PIKE, SUITE 305
ROCKVILLE, MD 20852
(804) 929-8418

PROPERTY OWNER:
GARY & JOAN CLARK
1375 SULLIVAN ROAD
WESTMINSTER, MD 21157
(410) 840-9414

SITE ADDRESS:
1151 SULLIVAN ROAD, WESTMINSTER, MD 21157 (39.622°N, -76.954°W)

PROJECT SITE:

1. EXISTING ZONING / USE: AGRICULTURAL
2. PROPOSED USE: COMMUNITY SOLAR ENERGY GENERATING SYSTEM (CSEGS)
3. TOTAL SITE AREA: 74.029 AC (NO EXISTING DEVELOPED AREA)
4. TOTAL PROPOSED DEVELOPMENT AREA (LIMIT OF DISTURBANCE): 749,232 SF (17.20 AC)
5. TOTAL REMAINING PROPERTY AREA: 55.332 AC
6. TOWN: WESTMINSTER, ELECTION DISTRICT: 06-001, COUNTY: CARROLL, STATE: MARYLAND
7. TAX MAP: 0031, BLOCK: 0017, PARCEL NUMBER: 0300
8. PARCEL 3-A, CREATED AS PART OF AMENDED PLAT OF SHAFER FARM, PREVIOUSLY RECORDED IN P.B. 22 PG. 22, SEE ALSO P.B. 19 PG. 93 (CARROLL COUNTY FILE NO. F-95-003).
9. WATERSHED: LIBERTY RESERVOIR (NOT A TIER II CATCHMENT)
10. NEAREST WATER SUPPLY: 1129 SULLIVAN ROAD, WESTMINSTER, MD 21157
11. SYSTEM SIZE: 4,787.28 kW DC (3,000.00 kW AC)

SOIL CONSERVATION DISTRICT

The Development Plan is approved for Soil Erosion and Sediment Control by the Soil Conservation District.

Approved _____Carroll S.C.D./Date

OWNER/DEVELOPER

I certify that this plan of Soil Erosion & Sediment Control will be implemented to the fullest extent, and all structures will be installed to the design and specifications as spelled out in this plan and that any responsible personnel involved in construction of this project will have a certification of attendance at a Department of the Environment approved training program for the control of soil erosion and sediment before beginning the project. I also authorize periodic on-site evaluation by the Carroll Soil Conservation District personnel and cooperating agencies.

_____
Developer Date

_____
Printed Name of Developer

_____
Developer Company Name

_____
Developer Phone Number

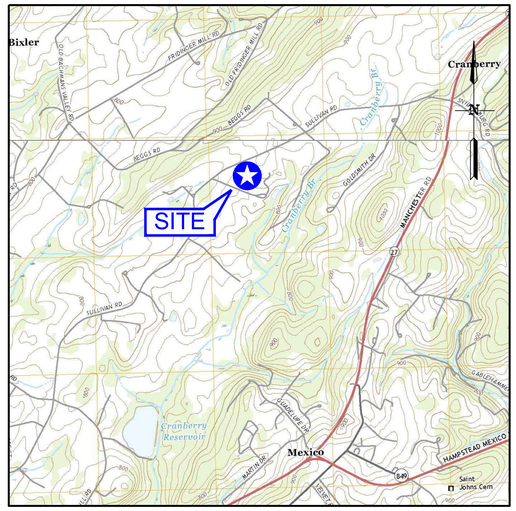
ENGINEER

I certify that this plan of Sediment Control is designed with my personal knowledge of the site condition and has been designed to the Standards and Specifications adopted by the Carroll Soil Conservation District.

_____ Engineer/Date

MISS UTILITY

CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDER GROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION.



Base map from the following USGS 7½ minute quadrangle: Westminster, MD and Manchester MD, PA dated 2019.

LOCATION MAP

SCALE: 1" = 2000'

PREPARED BY:

ARM Group LLC
Engineers and Scientists
www.armgroup.net

HEADQUARTERS:
1129 West Governor Road • Hershey, PA 17033-0797
Ph: (717) 533-8600 Fax: (717) 533-8605

THIS DRAWING SET WAS ORIGINALLY PRODUCED IN COLOR. NON-COLOR REPRODUCTIONS DO NOT SUFFICIENTLY DIFFERENTIATE AMONG FEATURES DEPICTED IN THIS DRAWING SET.

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. 61081, EXPIRATION DATE: 05-11-27 5-8-25

STATE OF MARYLAND · CHARLES D WALKER · NO. 61081 · PROFESSIONAL ENGINEER

S-25-0012

ARM Group LLC
Engineers and Scientists
www.armgroup.net

No.	Revision	Date	By

scale:	AS NOTED	
date:	5/9/2025	
project no.	220111064	
designed	KJM	
checked	AJR	
drawn	KJM	
graphic scale		

COVER SHEET
CONCEPT SITE DEVELOPMENT PLAN
WESTMINSTER
CARROLL COUNTY, MARYLAND

project title: CHABERTON SOLAR PINE ROCK
CHABERTON SOLAR PINE ROCK LLC

drawing title:

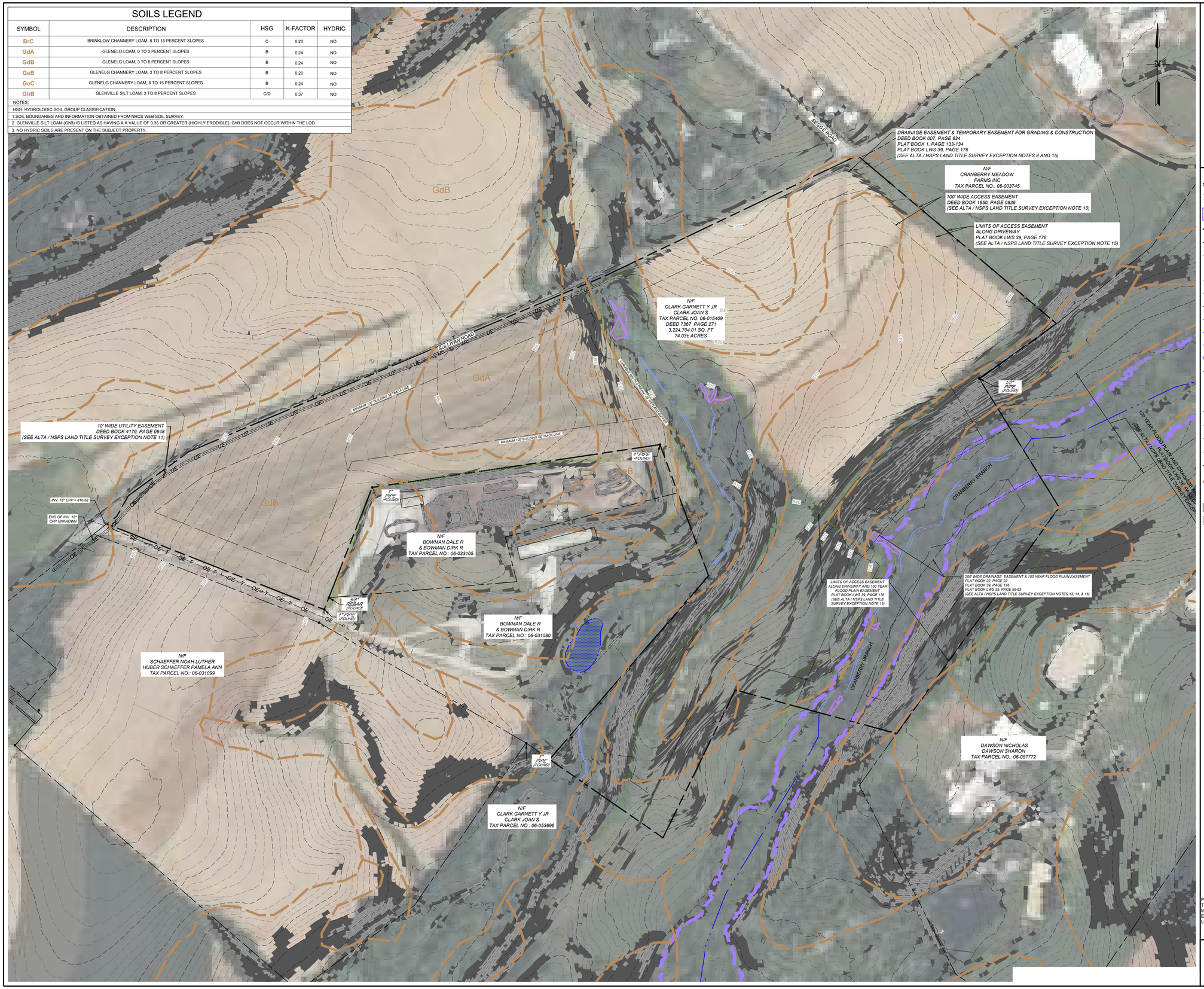
Sheet 1

F:\Chaberton\Projects\220111064 Pine Rock\DRAWG\Chaberton Drawing Sets\Land Development Plan\220111064-SMD_Cover Sheet.dwg Plotted: May 8, 2025

SOILS LEGEND

SYMBOL	DESCRIPTION	HSG	K-FACTOR	HYDRIC
BrC	BRINKLOW CHANNERY LOAM, 8 TO 15 PERCENT SLOPES	C	0.20	NO
GdA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	0.24	NO
GdB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.24	NO
GeB	GLENELG CHANNERY LOAM, 3 TO 8 PERCENT SLOPES	B	0.20	NO
GeC	GLENELG CHANNERY LOAM, 8 TO 15 PERCENT SLOPES	B	0.24	NO
GhB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	0.37	NO

NOTES:
HSG: HYDROLOGIC SOIL GROUP CLASSIFICATION
1.SOIL BOUNDARIES AND INFORMATION OBTAINED FROM NRCS WEB SOIL SURVEY.
2. GLENVILLE SILT LOAM (GhB) IS LISTED AS HAVING A K VALUE OF 0.35 OR GREATER (HIGHLY ERODIBLE). GhB DOES NOT OCCUR WITHIN THE LOD.
3. NO HYDRIC SOILS ARE PRESENT ON THE SUBJECT PROPERTY.



NOTES:

1. THE BASE MAP HAS BEEN CREATED USING AERIAL PHOTOGRAPHY, EXISTING TOPOGRAPHY AND SITE FEATURES, AND PROPERTY LINES OBTAINED FROM A TOPOGRAPHIC AND BOUNDARY SURVEY AND ALTA / NSPS LAND TITLE SURVEY PREPARED BY JHA COMPANIES, DATED SEPTEMBER 13, 2023.
2. WETLANDS, STREAM, AND BUFFER STUDY AND FOREST STAND DELINEATION WAS CONDUCTED BY ECS MID-ATLANTIC, LLC, ON NOVEMBER 10, 2022 AND OCTOBER 4, 2023.
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LEGEND

NOTE: LEGEND IS TYPICAL, NOT ALL OBJECTS IN LEGEND APPEAR IN PLAN.

- EXISTING CONTOURS
- DELINEATED WETLANDS
- PROPERTY LINE
- ADJOINING PROPERTY LINE
- PROPERTY LINE SETBACK / NATURAL RESOURCE BUFFER
- EXISTING TREELINE
- EXISTING LANDSCAPING
- EXISTING COMMUNICATION LINE
- EXISTING OVERHEAD ELECTRIC LINE W/ POLES
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING MAPPED WATERCOURSE / POND
- EXISTING VERIFIED STREAM
- EXISTING 100-YR FEMA FLOODPLAIN
- EXISTING FENCE
- EXISTING SIGN
- EXISTING CULVERT
- EXISTING EDGE OF PAVED ROAD
- EXISTING EDGE OF UNPAVED ROAD
- EXISTING ROAD CENTERLINE
- EXISTING GUIDERAIL
- EXISTING RIGHT-OF-WAY / EASEMENT
- GdB EXISTING SOIL BOUNDARY AND DESCRIPTOR
- TP INFILTRATION TEST LOCATION
- EXISTING SLOPES 15% - 25%
- EXISTING SLOPES >25%

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STATE OF MARYLAND · CHARLES D. WALKER · No. 61081 · PROFESSIONAL ENGINEER

5-8-25

S-25-0012

ARM Group LLC
Engineers and Scientists
www.armgroup.net

No.	Revision	Date	By

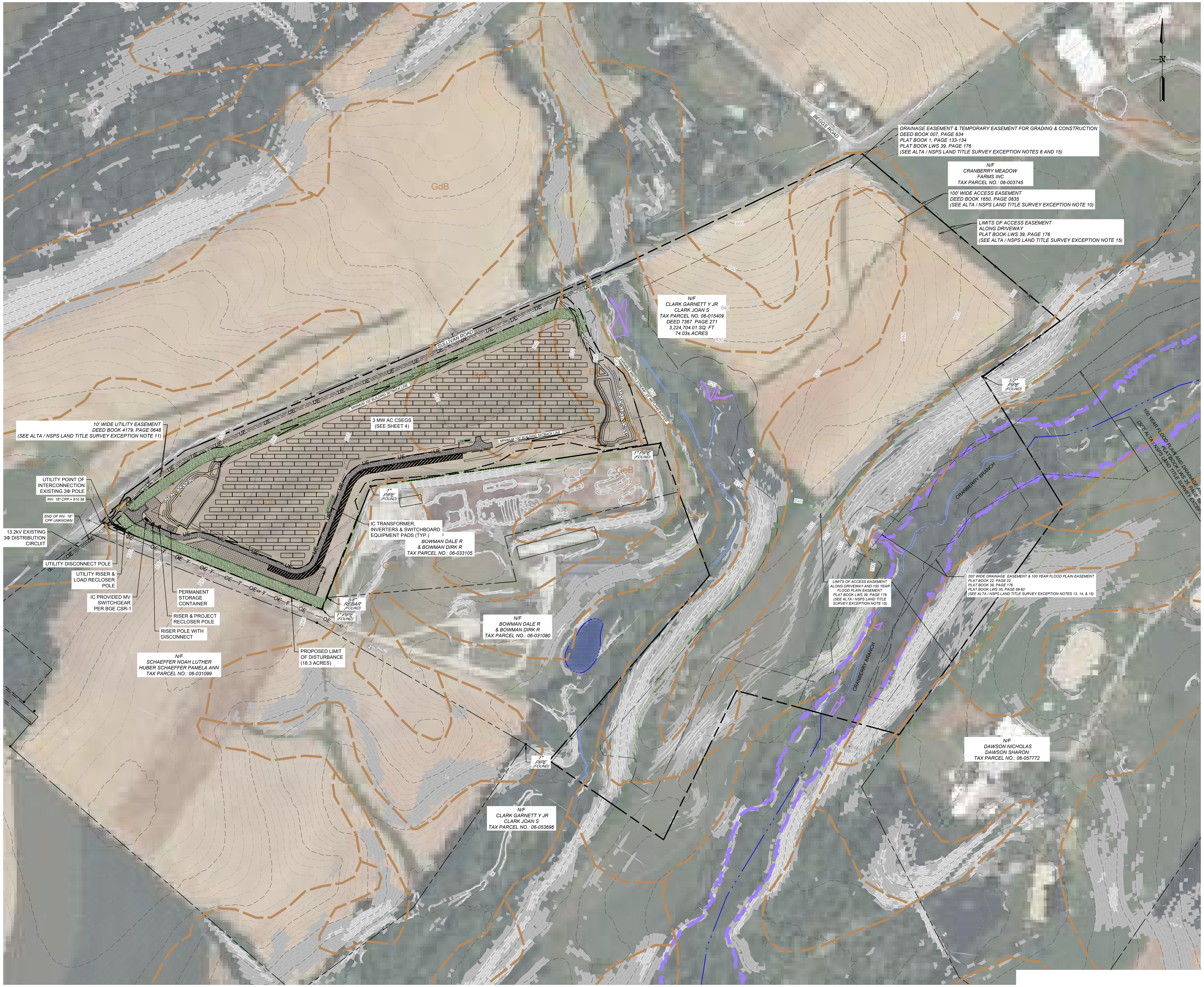
scale:	1" = 150'
date:	5/9/2025
project no.:	220111064
designed	KIM
checked	AJR
drawn	KIM
graphic scale:	0 150 300 450 SCALE IN FEET

drawing title: EXISTING SITE CONDITIONS PLAN
CONCEPT SITE DEVELOPMENT PLAN

project title: CHABERTON SOLAR PINE ROCK
CHABERTON SOLAR PINE ROCK LLC

WESTMINSTER
CARROLL COUNTY, MARYLAND

Sheet 2



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8. HEIGHT: GROUND-MOUNTED SYSTEM SHALL NOT EXCEED 15 FEET ABOVE EXISTING GRADE, PER CARROLL COUNTY, MD, ZONING ORDINANCE 158.153(E)(1)(k).
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- 840 — EXISTING CONTOURS
- DELINEATED WETLANDS
- PROPERTY LINE
- ADJOINING PROPERTY LINE
- PROPERTY LINE SETBACK / NATURAL RESOURCE BUFFER
- EXISTING TREELINE
- EXISTING LANDSCAPING
- T — T — T — EXISTING COMMUNICATION LINE
- OE — OE — EXISTING OVERHEAD ELECTRIC LINE W/ POLES
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- 840 — PROPOSED CONTOURS
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STATE OF MARYLAND
CHARLES D. WALKER
No. 61081
PROFESSIONAL ENGINEER
5-8-25

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No.	Revision	Date	By

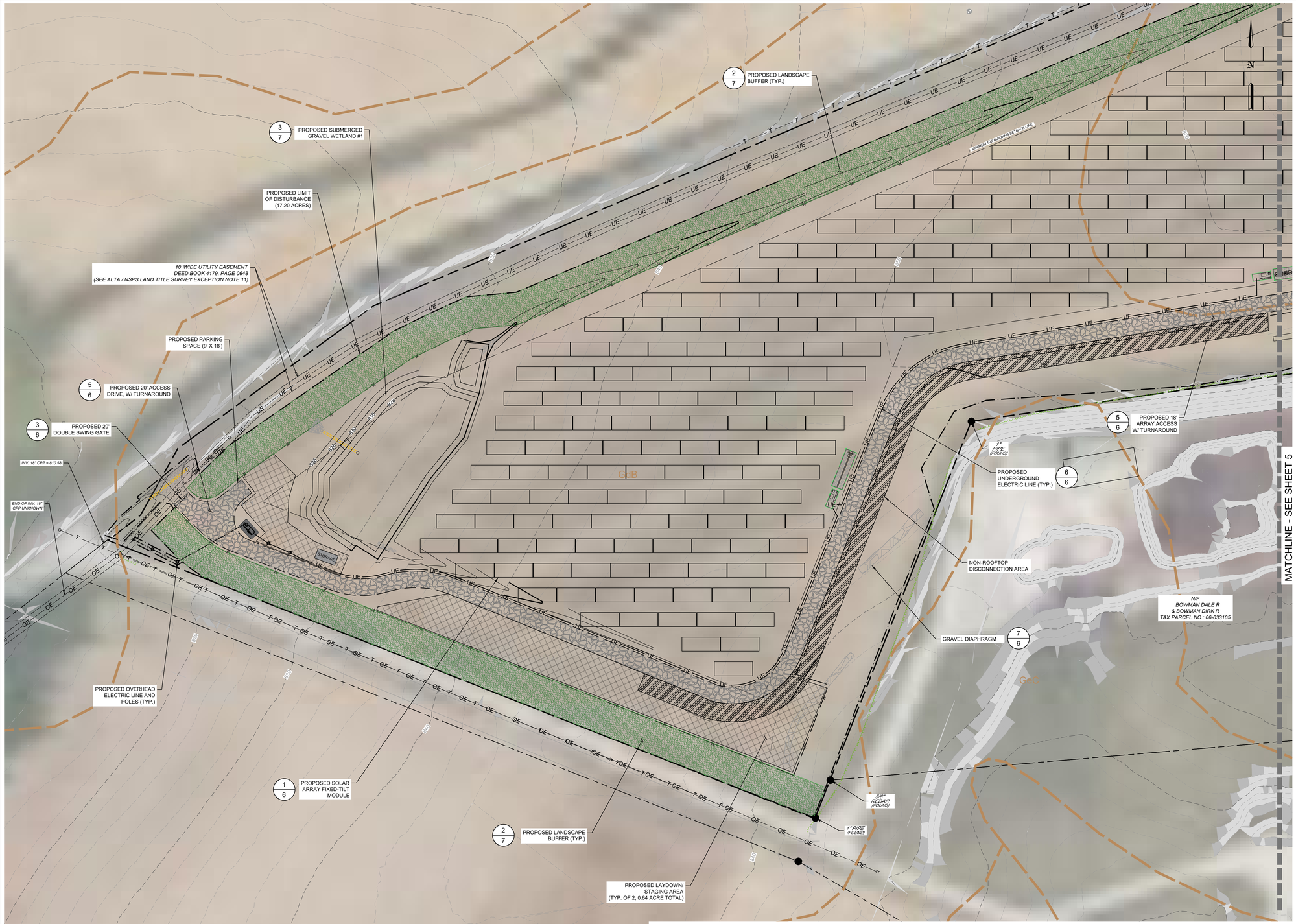
designed	KJM	scale	1" = 150'
checked	AJR	date	5/9/2025
drawn	KJM	project no.	22011064

graphic scale: 0, 150, 300, 450 — SCALE IN FEET

drawing title: OVERALL PROPOSED SITE CONDITIONS & SWM PLAN
CONCEPT SITE DEVELOPMENT PLAN

project title: CHABERTON SOLAR PINE ROCK
CHABERTON SOLAR PINE ROCK LLC
WESTMINSTER
CARROLL COUNTY, MARYLAND

P:\Chaberton\Projects\22011064 Pine Rock\DRWG\Production\Drawing Sets\Land Development Plan\22011064-Sh03-Proposed Site Conditions.dwg Plotted: May 8, 2025



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- PROPOSED ACCESS ROAD/ EQUIPMENT PAD
- PROPOSED SOLAR MODULES
- PROPOSED TREES/ LANDSCAPE BUFFER
- PROPOSED LAYDOWN / STAGING AREA

ARM Group LLC
Engineers and Scientists

Subject: MDE ESD Stormwater Management Calculations
Project: Pine Rock
Project No: 22011064

Drainage Area	ESD Type (#)	DA (sf)	DA (acres)	Imp. A (sf)	Imp. A (acre)	% IA	R_v	Max P_E (in)	Max ESD_v (cf)	Storage Volume (cf)	ESD_v Prov. (cf)
POI 2	N-2 (Gravel Road Disconnection)	32,294	0.74	16,147	0.37	50.00%	0.50	1.0	1,346	-	1,346
POI 1	M-2 Submerged Gravel Wetland (SGW 1)	276,123	6.34	117,188	2.69	42.44%	0.43	2.6	25,725	-	25,725
POI 3	M-2 Submerged Gravel Wetland (SGW 2)	208,373	4.78	75,308	1.73	36.14%	0.38	2.6	17,156	-	17,156
										$ESD_{v\ Provided}$	44,227
										$ESD_{v\ Required}$	30,971
										Difference	13,256

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STATE OF MARYLAND · CHARLES D. WALKER · No. 61081 · PROFESSIONAL ENGINEER

S-25-0012

ARM Group LLC
Engineers and Scientists
www.armgroup.net

No.	Revision	Date	By

scale: 1" = 50'
date: 5/9/2025
project no.: 22011064
designed: KJM
checked: AJR
drawn: KJM
graphic scale: 0, 50, 100, 150 SCALE IN FEET

PROPOSED SITE CONDITIONS & SWM PLAN
CONCEPT SITE DEVELOPMENT PLAN

WESTMINSTER
CARROLL COUNTY, MARYLAND

project title: CHABERTON SOLAR PINE ROCK
drawing title: CHABERTON SOLAR PINE ROCK LLC

Sheet 4

X:\Chaberton Projects\22011064 Pine Rock\22WIP\2 Production\Drawings Set\Land Development Plan\22011064_Sht05_Proposed Site Conditions.dwg Plotted: May 8, 2025

NOTES:

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LEGEND

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840	EXISTING CONTOURS
	DELINEATED WETLANDS
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	ADJOINING PROPERTY LINE
	PROPERTY LINE SETBACK / NATURAL RESOURCE BUFFER
	EXISTING TREELINE
	EXISTING LANDSCAPING
T T T	EXISTING COMMUNICATION LINE
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STATE OF MARYLAND
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No. 61081
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[illegible]
5-8-25

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WESTMINSTER
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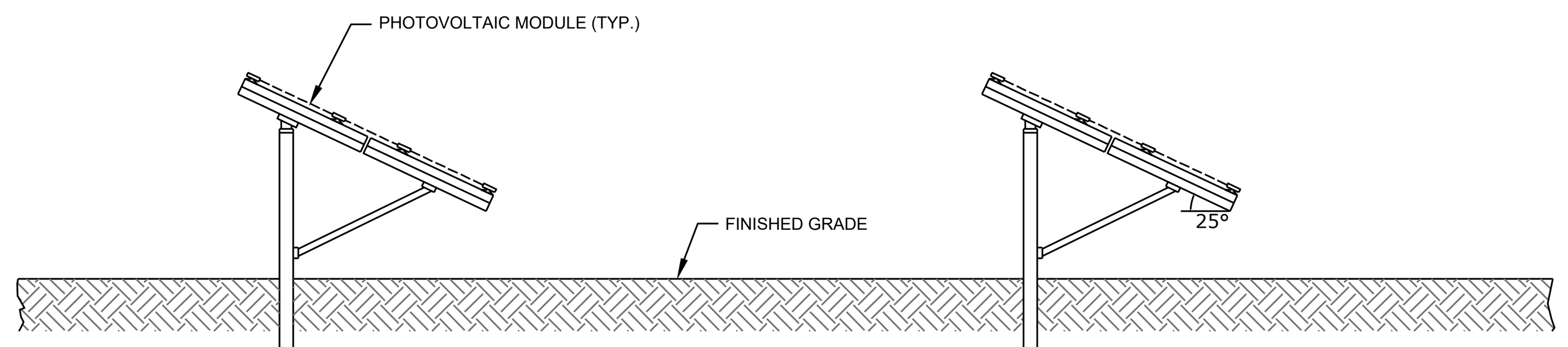
Sheet 5

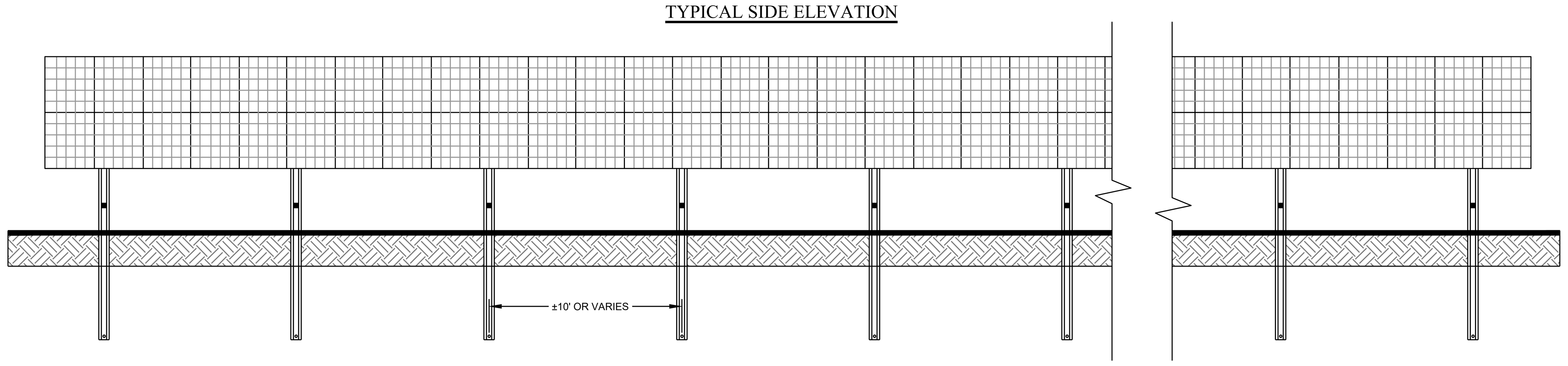
P:\Chaberton\Projects\22011064 Pine Rock\DRWG\Production\Drawing Sets\Land Development Plan\22011064-Sh03-Proposed Site Conditions.dwg Plotted: May 8, 2025



NOTES:

1. REFER TO M-101 FOR RACKING AND MODULE HEIGHTS.

TYPICAL SIDE ELEVATION

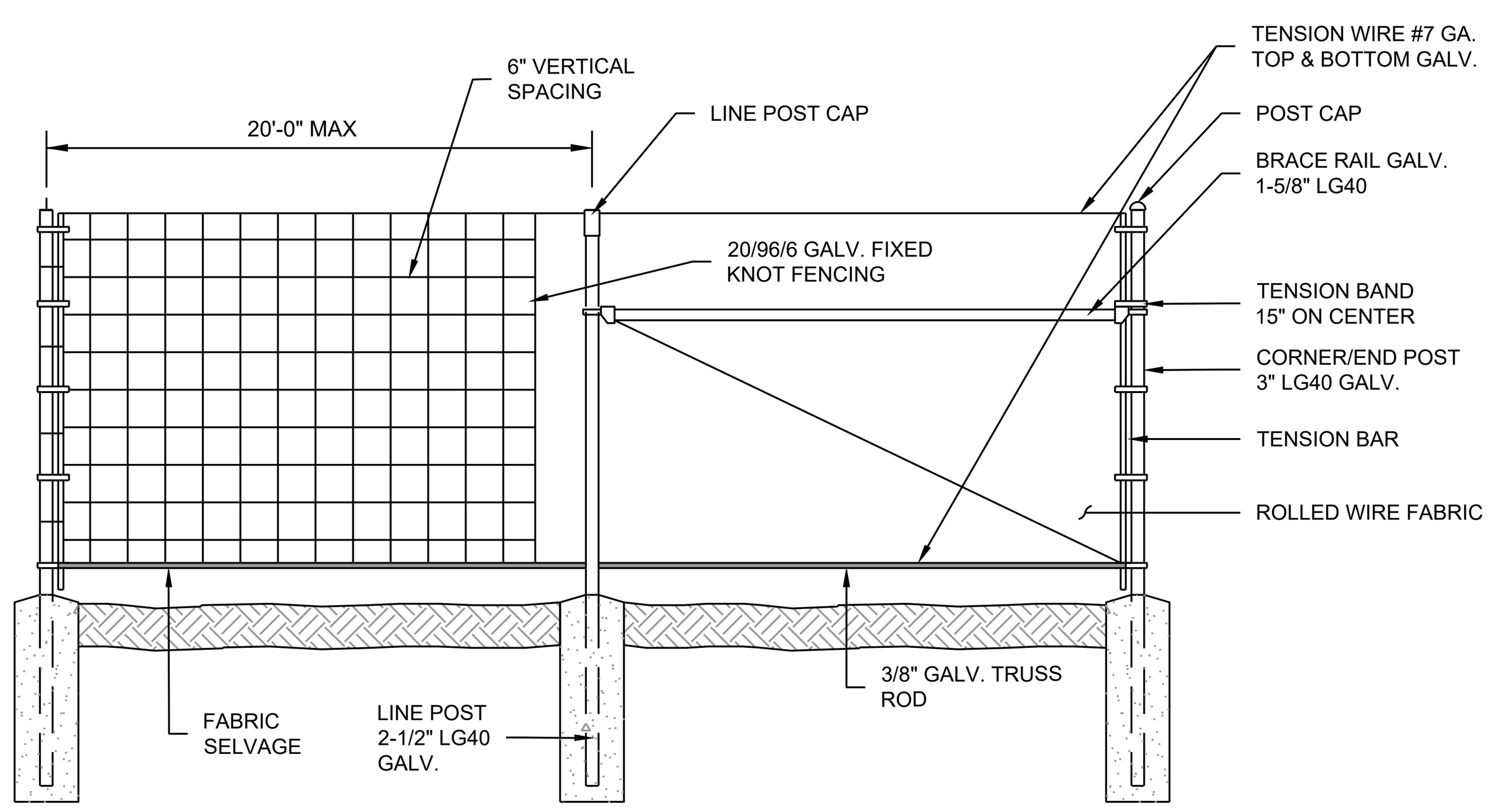


FRONT ELEVATION

NOTES:

1. THE INFORMATION SHOWN HERE IS FOR GENERAL REFERENCE ONLY. ARRAY CONFIGURATION DIMENSIONS SHOWN HERE MAY VARY AND ARE SUBJECT TO CHANGE ON FUTURE DESIGN ITERATIONS.

1 DETAIL
PHOTOVOLTAIC ARRAY (TYP.)
NOT TO SCALE

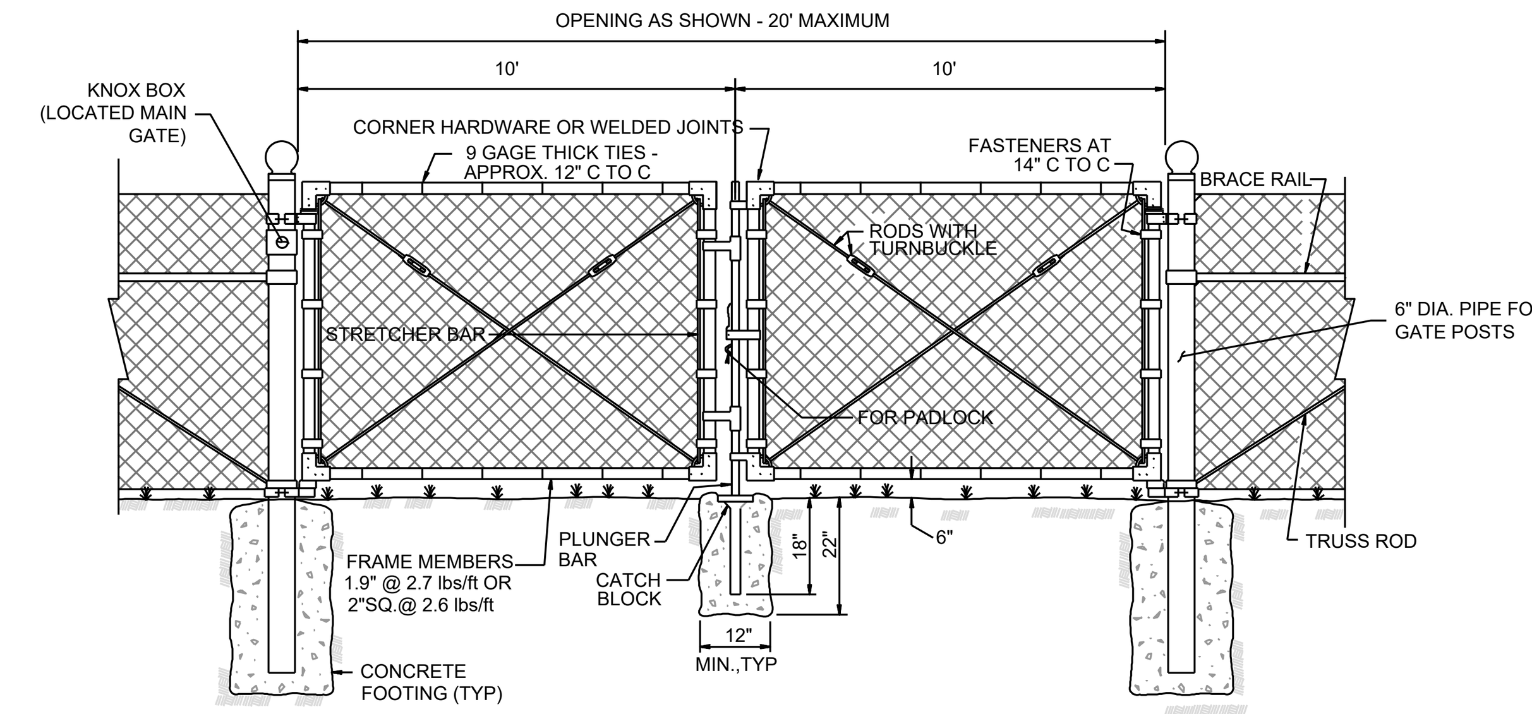


NOTES:

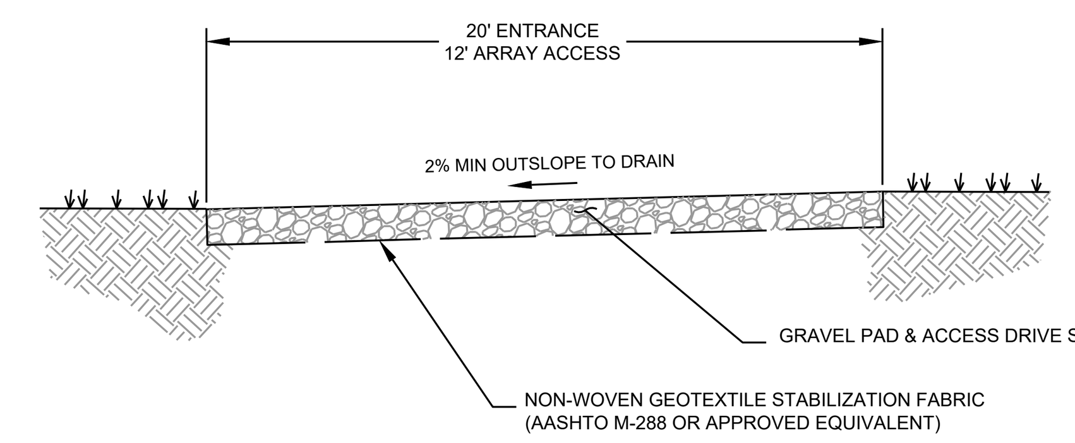
1. FENCE SHALL BE PLACED ALONG ENTIRE PROPOSED PROJECT PERIMETER.
2. POSTS SHALL BE SPACED EQUAL DISTANCES APART. MAXIMUM SPACING SHALL BE 20 FEET UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
3. POST TOPS SHALL BE SECURELY FASTENED TO POST.
4. BRACE RAILS AND TRUSS RODS SHALL BE SECURELY FASTENED TO POST WITH BRACE BANDS WITH THREADED TAKE-UP ADAPTOR FOR TRUSS RODS.
5. GROUND WIRE SHALL BE ATTACHED TO FENCE FABRIC BY MEANS OF A SPLIT BOLT.
6. FABRIC SHALL BE STRETCHED TO A SMOOTH UNIFORM BY MEANS OF A SPLIT BOLT.
7. DETAILS SHOWN INDICATE GENERAL DESIGN OF WILDLIFE FENCE WITH GALVANIZED MESH AND POSTS. APPROVED EQUIVALENT WILDLIFE FENCE WITH TIMBER POSTS, CEDAR OR TREATED PINE, AND GALVANIZED MESH MAY BE UTILIZED. DIMENSIONS MAY VARY AMONG MANUFACTURERS.
8. LINE POST SHALL BE SET IN CONCRETE AT CORNERS AND GATES ONLY.

FABRIC	HEIGHT	MESH	GAGE	SELVAGE	FINISH
	7'-0"	F.K.	N/A	N/A	GALV.
FRAMEWORK		O.D.	WALL	WT. PER FT.	LENGTH
END/CORNER POST		3"	0.16	4.64	11'-0"
LINE POST		2-1/2"	0.13	3.12	11'-0"
RAILS		1-5/8"	0.11	1.84	20'-0" MAX
GATE FRAME		1-5/8"	0.11	1.84	VARIES
GATE POST		6"	0.16	6.56	11'-0"

2 DETAIL
SECURITY / WILDLIFE FENCE (TYP.)
NOT TO SCALE



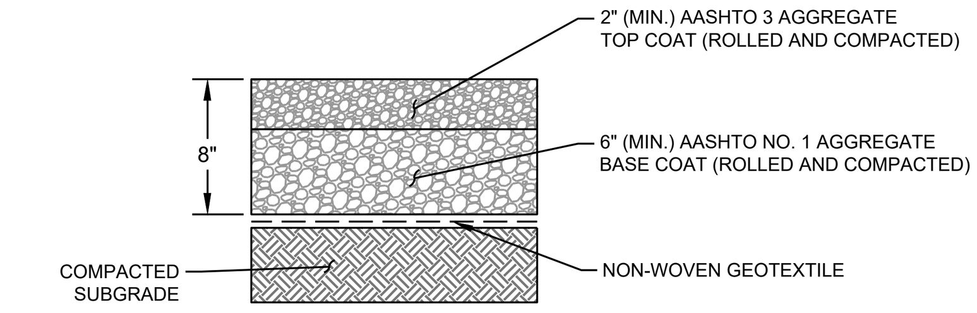
3 DETAIL
DOUBLE SWING GATE (20')
NOT TO SCALE



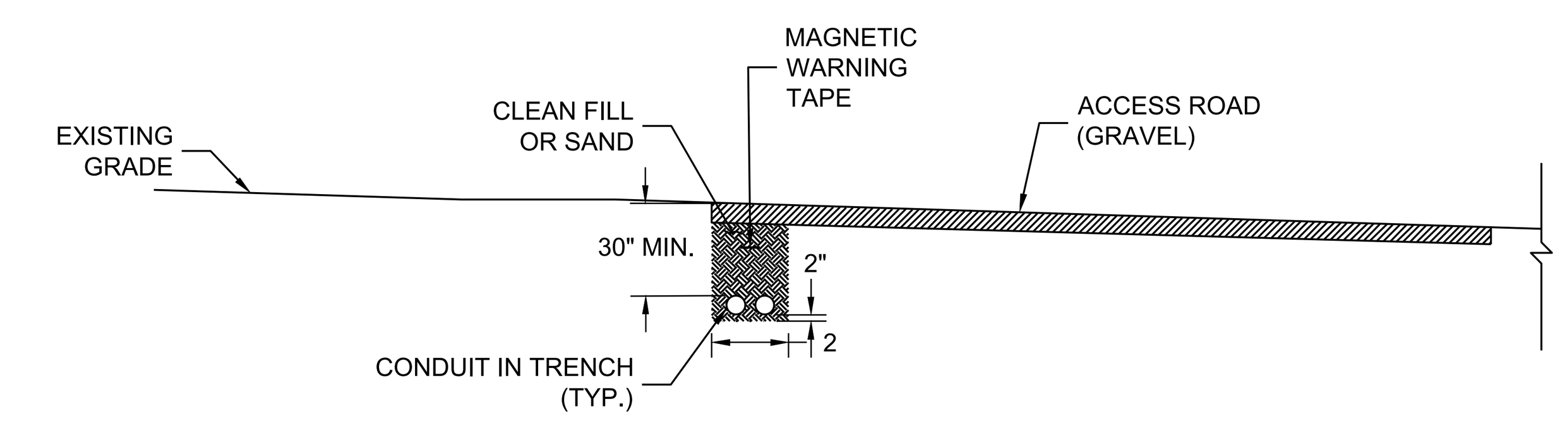
NOTES:

1. EXCAVATE TO SUITABLE MATERIAL FOR SUBGRADE AND COMPACT TO PROVIDE SUITABLE SURFACE TO PLACE ROAD.
2. GEOTEXTILE FABRIC SHALL MEET FOLLOWING REQUIREMENTS AND FOLLOW GEOTEXTILE MANUFACTURER INSTALLATION PROCEDURES.
   - TENSILE STRENGTH: 150 LB MIN.
   - ELONGATION: 50%
   - CBR PUNCTURE: 400 LB MIN.
   - MINIMUM FLOW RATE: 120 GPM / FT²
3. WHERE OVERLAPPING OF GEOTEXTILE FABRIC IS REQUIRED, SUBCONTRACTOR SHALL OVERLAP A MINIMUM OF 24".
4. REMOVE TEMPORARY CONSTRUCTION ACCESS ROAD AND RESTORE TO PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE OWNER AND THE GOVERNING AGENCIES.

5 DETAIL
GRAVEL ACCESS ROAD
NOT TO SCALE



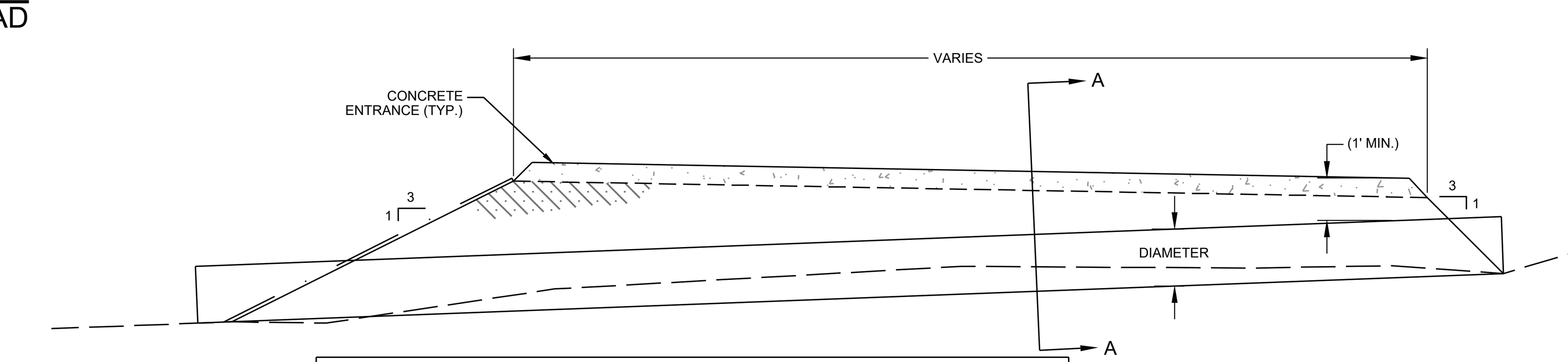
4 DETAIL
GRAVEL EQUIPMENT PAD & ACCESS DRIVE SECTION (TYP.)
NOT TO SCALE



NOTES:

1. CONDUIT LAYOUTS TO BE DETERMINED.

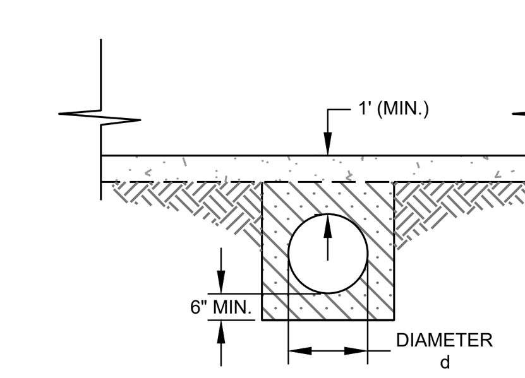
6 DETAIL
CONDUIT TRENCH (TYP.)
NOT TO SCALE



CULVERT SCHEDULE						
CULVERT NO.	DIAMETER (IN)	SLOPE (%)	INLET INV EL.	OUTLET INV EL.	LENGTH (FT)	MATERIAL
1	18	1.80	813.74	812.78	52.7	HDPE

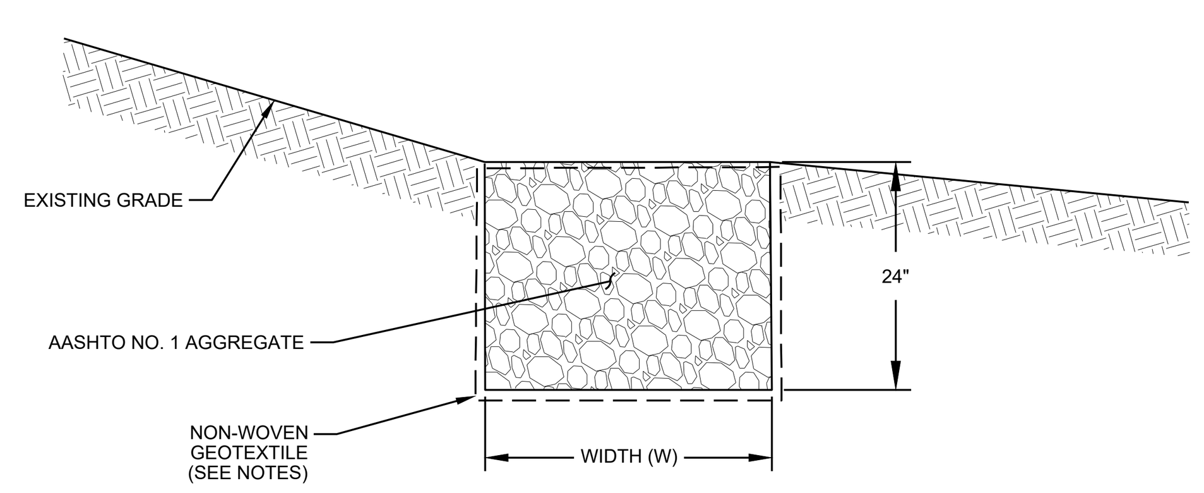
NOTES:

1. CULVERTS SHALL BE PLACED TO SLOPE SHOWN. CULVERTS SHALL DAYLIGHT AND EXTEND BEYOND THE FILL SLOPE.
2. STABILIZE IMMEDIATELY AFTER CONSTRUCTION.



SECTION A-A (SINGLE)

9 DETAIL
CULVERT (TYP.)
NOT TO SCALE



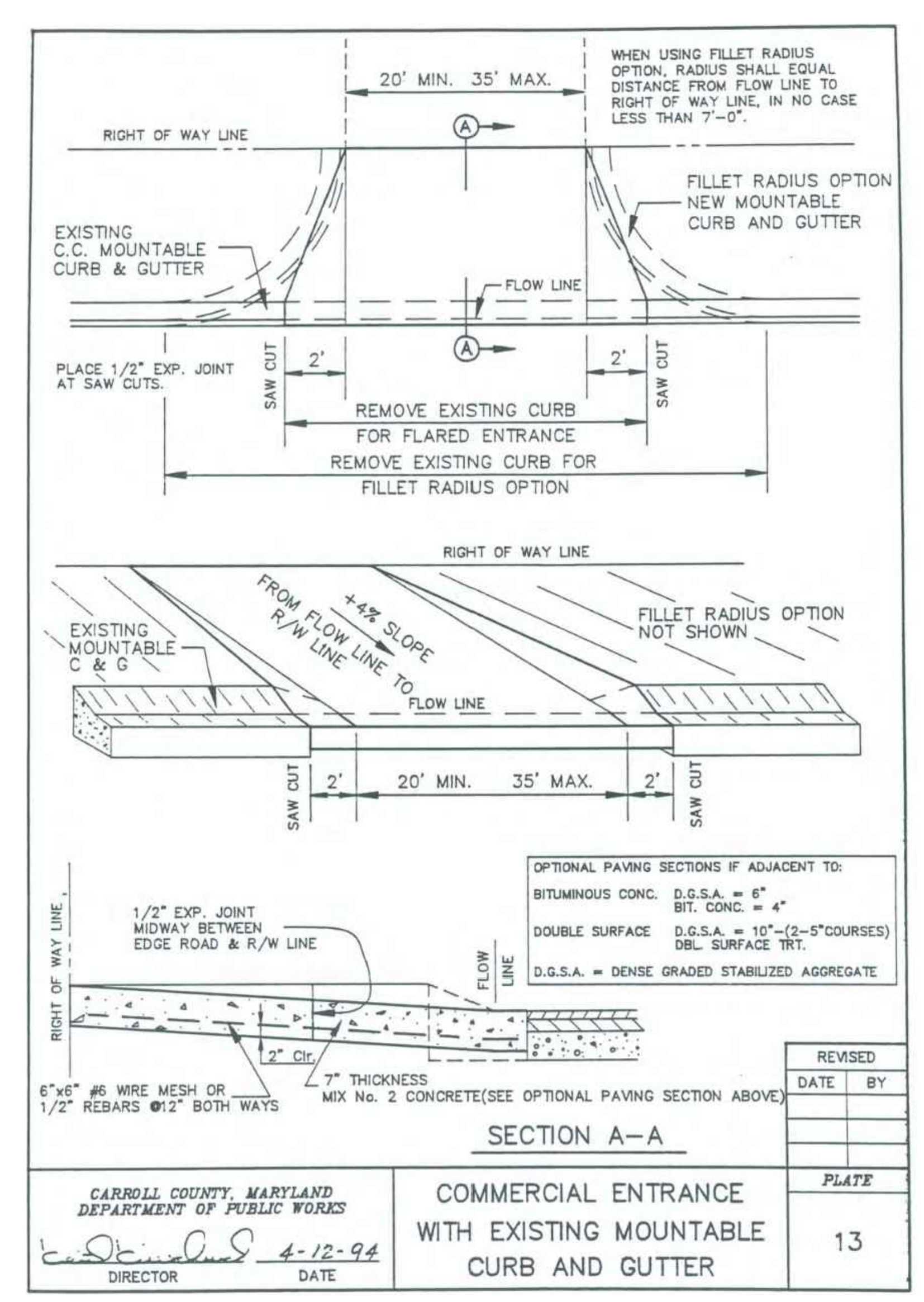
NOTES:

1. ESTABLISH PREPARED SUBGRADE AND STABILIZE SIDES OF TRENCH PRIOR TO INSTALLATION OF GEOTEXTILE FABRIC AND BACKFILLING WITH STONE.
2. GEOTEXTILE TO BE INSTALLED ON ALL SIDE FACES AND BOTTOM SURFACE OF TRENCH. GEOTEXTILE TO BE NON-WOVEN, 8 OZ/SY MINIMUM, OR APPROVED EQUAL.
3. GRAVEL DIAPHRAGMS SHALL BE INSTALLED PARALLEL TO CONTOURS.

Gravel Diaphragm Schedule

Name	Width (W) ft
Gravel Diaphragm 1	6
Gravel Diaphragm 2	8
Gravel Diaphragm 3	2

7 DETAIL
GRAVEL DIAPHRAGM
NOT TO SCALE



8 DETAIL
CARROLL COUNTY COMMERCIAL ENTRANCE
NOT TO SCALE

STATE OF MARYLAND
CHARLES D. WALKER
No. 61081
PROFESSIONAL ENGINEER
[illegible]
5-8-25

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. 61081, EXPIRATION DATE: 05-11-27

S-25-0012

ARM Group LLC
Engineers and Scientists
www.armgroup.net

No.	Revision	Date	By

scale AS NOTED
date 5/9/2025
project no. 22011064
designed KJM
checked AJR
drawn KJM
graphic scale

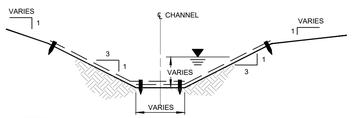
drawing title
PROPOSED SITE DETAILS
CONCEPT SITE DEVELOPMENT PLAN

WESTMINSTER
CARROLL COUNTY, MARYLAND

project title
CHABERTON SOLAR PINE ROCK
CHABERTON SOLAR PINE ROCK LLC

Sheet 6

P:\Chaberton\Projects\22011064 Pine Rock\DRWG\Production\Drawing Sets\Land Development Plan\22011064-Sh06_Site Details.dwg Plotted: May 8, 2025



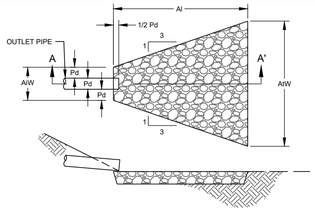
NOTES:

1. PERMANENT EROSION CONTROL MATTING BY NORTH AMERICAN GREEN, ERONET P300, OR APPROVED EQUIVALENT.
2. STABILIZE IMMEDIATELY AFTER CONSTRUCTION.

Channel Schedule

Channel	Slope (%)	Lining	Bottom Width (ft) (B)	Depth (ft) (D)	Side Slopes (Z1:1)& (Z2:1)	Top Width (ft)
Channel 1	1-4	NAG P300	2	1.50	3	11
Channel 2	5	NAG P300	2	1.00	3	8
Channel 3	1.0-5.5	NAG P300	2	1.25	3	9.5
Channel 4	2-9.5	NAG P300	2	1.25	3	9.5

1 DETAIL
GRASS CHANNEL
NOT TO SCALE

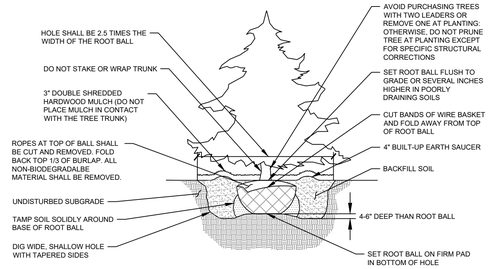


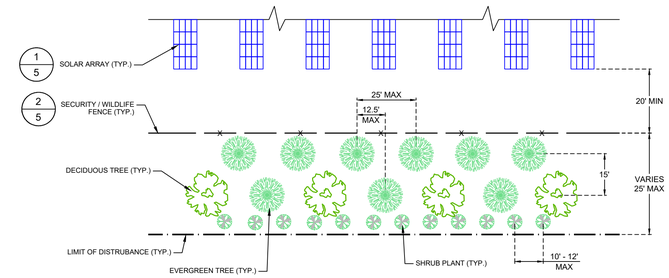
SECTION A-A'

NOTES:

1. ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.
2. ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.
3. EXTEND RIPRAP ON BACKSIDE OF APRON TO AT LEAST 1/2 DEPTH OF PIPE ON BOTH SIDES TO PREVENT SCOUR AROUND PIPE.

5 DETAIL
RIPRAP APRON OUTLET PROTECTION
NOT TO SCALE





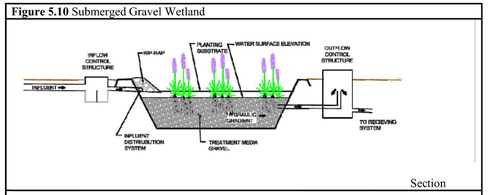
TYPICAL SCREENING BUFFER SPACING DIAGRAM

NOTES:

1. LANDSCAPING AND SCREENING SHALL BE PROVIDED IN ACCORDANCE WITH CARROLL COUNTY, MD, ZONING ORDINANCE 158.153(E)(1)(i)
2. THE SCREENING DETAILS ARE FOR LANDSCAPING INFORMATION ONLY. PLEASE REFER TO THE SITE PLAN, GRADING PLAN AND/OR UTILITIES PLAN FOR ALL OTHER INFORMATION.
3. THE LOCATIONS FOR PLANT MATERIAL ARE APPROXIMATE AND ARE SUBJECT TO FIELD ADJUSTMENT DUE TO SLOPE, VEGETATION, AND SITE FACTORS SUCH AS THE LOCATION OF ROCK OUTCROPS. PRIOR TO PLANTING, THE LANDSCAPE CONTRACTOR SHALL ACCURATELY STAKE OUT THE LOCATIONS FOR ALL PLANTS. NO PLANT SHALL BE PLACED IN THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND FIELD LOCATIONS OR ADJUSTMENTS OF THE TREES HAVE BEEN APPROVED BY THE OWNER.
4. ALL SCREENING TREES SHALL BE ARRANGED IN A WAY THAT DIAMETER OF TREE SHALL OVERLAP WHEN VIEWED AT A PERPENDICULAR ANGLE TO EFFECTIVELY ACHIEVE AN OPAQUE VISUAL BARRIER.
5. COORDINATE PLANTING LOCATIONS WITH SITE UTILITIES. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO NEGLIGENCE AND SHALL REPLACE OR REPAIR ANY DAMAGE AT THEIR OWN EXPENSE.
6. FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
7. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
8. SOIL AMENDMENTS:
   - 8.1. MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM.
   - 8.2. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
9. INVASIVE SPECIES AND OTHER WEEDS WILL BE REMOVED AND CONTROLLED THROUGHOUT THE PROJECT AREA DURING OPERATION OF THE PROJECT. EMPHASIS WILL BE PLACED ON REMOVAL OF INVASIVE AND NOXIOUS WEED SPECIES FROM BUFFER AREAS TO MAINTAIN BUFFER HEALTH AND SCREENING PROPERTIES.
10. THE USE OF CHEMICALS WILL BE LIMITED TO THAT NECESSARY AND AVOIDED TO THE MAXIMUM EXTENT PRACTICABLE. ALL CHEMICAL CONTROL TREATMENTS WILL BE PERFORMED BY, OR PERFORMED UNDER THE DIRECT SUPERVISION OF, A MARYLAND CERTIFIED PESTICIDE APPLICATOR OR TECHNICIAN.
11. ALL PLANTING MATERIALS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT LIFE IN ORDER TO ENSURE EFFECTIVE SCREENING AND SHALL BE REPLACED WHEN NECESSARY.
12. ANY TREE WRAP OR ROPE WILL BE REMOVED AND PROPERLY DISPOSED OF FOLLOWING INSTALLATION.
13. THE FOLLOWING SCREENING / SHADE TREE SPECIES SHALL BE USED, OR APPROVED EQUIVALENT SPECIES, TO EMULATE THE MIX OF NATIVE VEGETATION ALREADY IN EXISTENCE WITHIN THE LANDSCAPE:
   - 13.1. DECIDUOUS TREES:
     - 13.1.1. SERVICEBERRY (AMELANCHIER CANADENSIS) (APPROX. 20' HEIGHT AND 15' SPREAD AT MATURITY)
   - 13.2. EVERGREEN TREES:
     - 13.2.1. EASTERN RED CEDAR (JUNIPERS VIRGINIANA) (APPROX. 30' HEIGHT AND 8' SPREAD AT MATURITY)
     - 13.2.2. ARBORVITAE (THUJA OCCIDENTALIS) (APPROX. 40' HEIGHT AND 10' SPREAD AT MATURITY)
     - 13.2.3. EVERGREEN TREES SHALL BE AT LEAST 6' IN HEIGHT AT TIME OF PLANTING.
14. THE FOLLOWING SHRUB PLANT SPECIES (MINIMUM TWO (2) VARIETIES OF MIXED SPECIES) SHALL BE USED, OR APPROVED EQUIVALENT SPECIES, TO EMULATE THE MIX OF NATIVE VEGETATION ALREADY IN EXISTENCE WITHIN THE LANDSCAPE:
   - 14.1. BLACK CHOKEBERRY (ARONIA MELANOCARPA); BLACK HUCKLEBERRY (GAYLUSSACIA BACCATA); HILLSIDE BLUEBERRY (VACCINIUM PALLIDUM); MAPLELEAF VIBURNUM (VIBURNUM ACERIFOLIUM); OR SMOOTH HYDRANGEA (HYDRANGEA ARBORESCENS).

2 DETAIL
SCREENING AND LANDSCAPE TREE PLANTING DETAIL (TYP.)
NOT TO SCALE

Figure 5.10 Submerged Gravel Wetland



Submerged Gravel Wetland Schedule

	Grading Dimensions			Low Flow Orifice		10 year orifice		Riser		Outflow Culvert				Emergency Spillway		
Name	Top of Embankment El.	Top of Stone Layer El.	Bottom of Stone Layer El.	Dia (in)	Elevation	Dia (in)	Elevation	Dia (in)	Top Elevation	Dia (in)	Elevation in	Elevation out	Length (ft)	Width (ft)	Elevation	100 YR Storm El.
Submerged Gravel Wetland 1	829.99	827	823	3	827.10	N/A	N/A	36	828.00	24	827.00	825.00	44	10	829.90	829.79
Submerged Gravel Wetland 2	836.99	834	829	6	834.00	10	834.75	24	836.50	24	834.00	832.00	50	10	836.90	836.92

3 DETAIL
SUBMERGED GRAVEL WETLAND
NOT TO SCALE

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5-8-25

S-25-0012

ARM Group LLC
Engineers and Scientists
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No.	Revision	Date	By

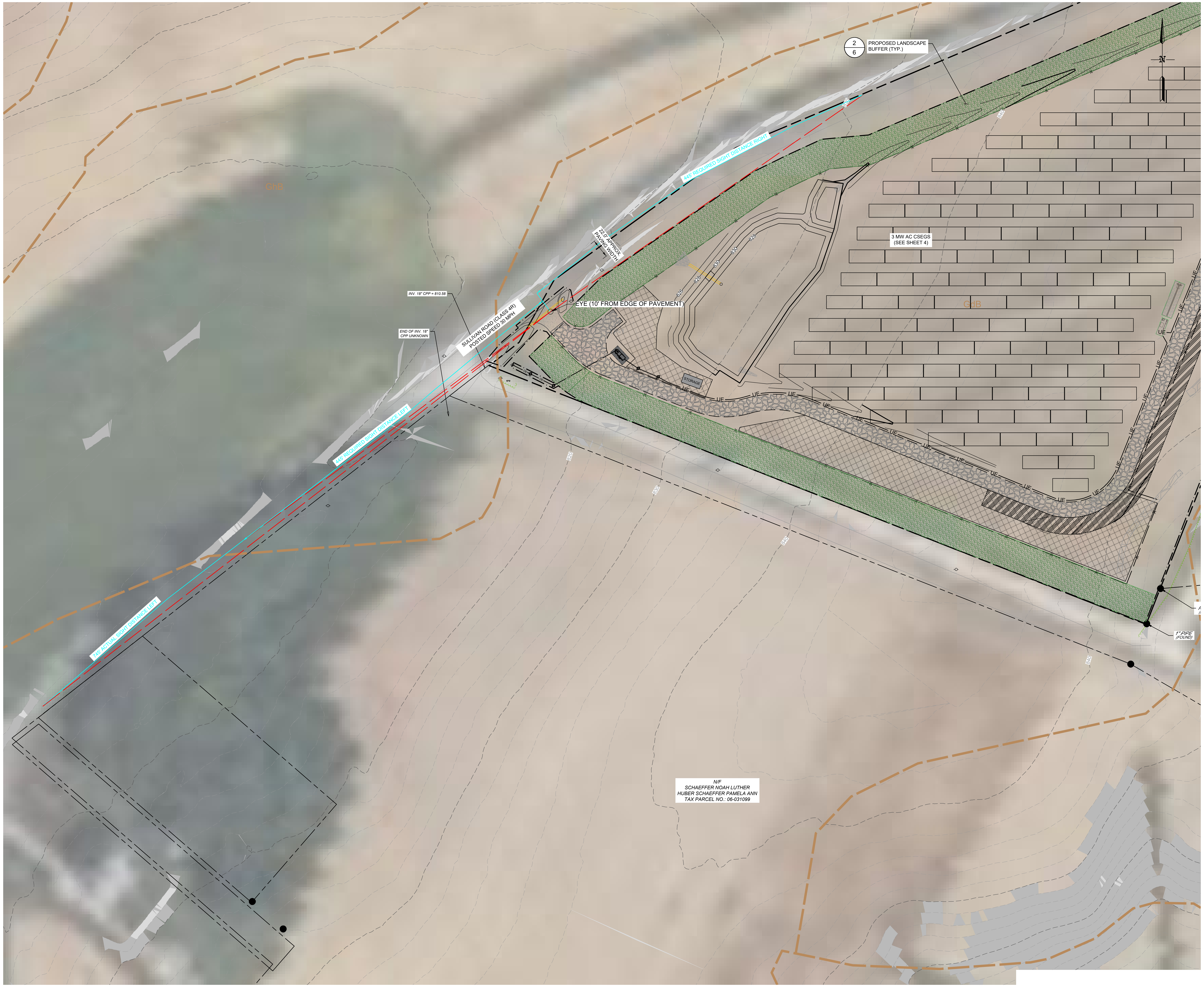
designed	KJM
checked	AJR
drawn	KJM
graphic scale	
scale	AS NOTED
date	5/9/2025
project no.	22011064

PROPOSED SITE DETAILS
CONCEPT SITE DEVELOPMENT PLAN

WESTMINSTER
CARROLL COUNTY, MARYLAND

project title: CHABERTON SOLAR PINE ROCK
drawing title: CHABERTON SOLAR PINE ROCK LLC

Sheet 7



LEGEND

NOTE: LEGEND IS TYPICAL, NOT ALL OBJECTS IN LEGEND APPEAR IN PLAN.

840	EXISTING CONTOURS
	DELINEATED WETLANDS
	PROPERTY LINE
	ADJOINING PROPERTY LINE
	PROPERTY LINE SETBACK / NATURAL RESOURCE BUFFER
	EXISTING TREELINE
	EXISTING LANDSCAPING
T T T	EXISTING COMMUNICATION LINE
OE OE	EXISTING OVERHEAD ELECTRIC LINE W/ POLES
UE UE	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING MAPPED WATERCOURSE / POND
	EXISTING VERIFIED STREAM
	EXISTING 100-YR FEMA FLOODPLAIN
	EXISTING FENCE
	EXISTING SIGN
	EXISTING CULVERT
	EXISTING EDGE OF PAVED ROAD
	EXISTING EDGE OF UNPAVED ROAD
	EXISTING ROAD CENTERLINE
	EXISTING GUIDERAIL
	EXISTING RIGHT-OF-WAY / EASEMENT
GdB	EXISTING SOIL BOUNDARY AND DESCRIPTOR
TP	INFILTRATION TEST LOCATION
	EXISTING SLOPES 15% - 25%
	EXISTING SLOPES >25%
840	PROPOSED CONTOURS
	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED SECURITY FENCE
UE UE	PROPOSED UNDERGROUND ELECTRIC LINE
OE OE	PROPOSED OVERHEAD ELECTRIC LINE W/ POLE
	PROPOSED GRASS CHANNEL
	PROPOSED ACCESS ROAD/ EQUIPMENT PAD
	PROPOSED SOLAR MODULES
	PROPOSED TREES/ LANDSCAPE BUFFER
	PROPOSED LAYDOWN / STAGING AREA

STATE OF MARYLAND
CHARLES D. WALKER
No. 61081
PROFESSIONAL ENGINEER

[illegible]

5-8-25

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S-25-0012

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No.	Revision	Date	By

designed	KJM
checked	AJR
drawn	KJM
scale	1" = 100'
date	5/9/2025
project no.	22011064

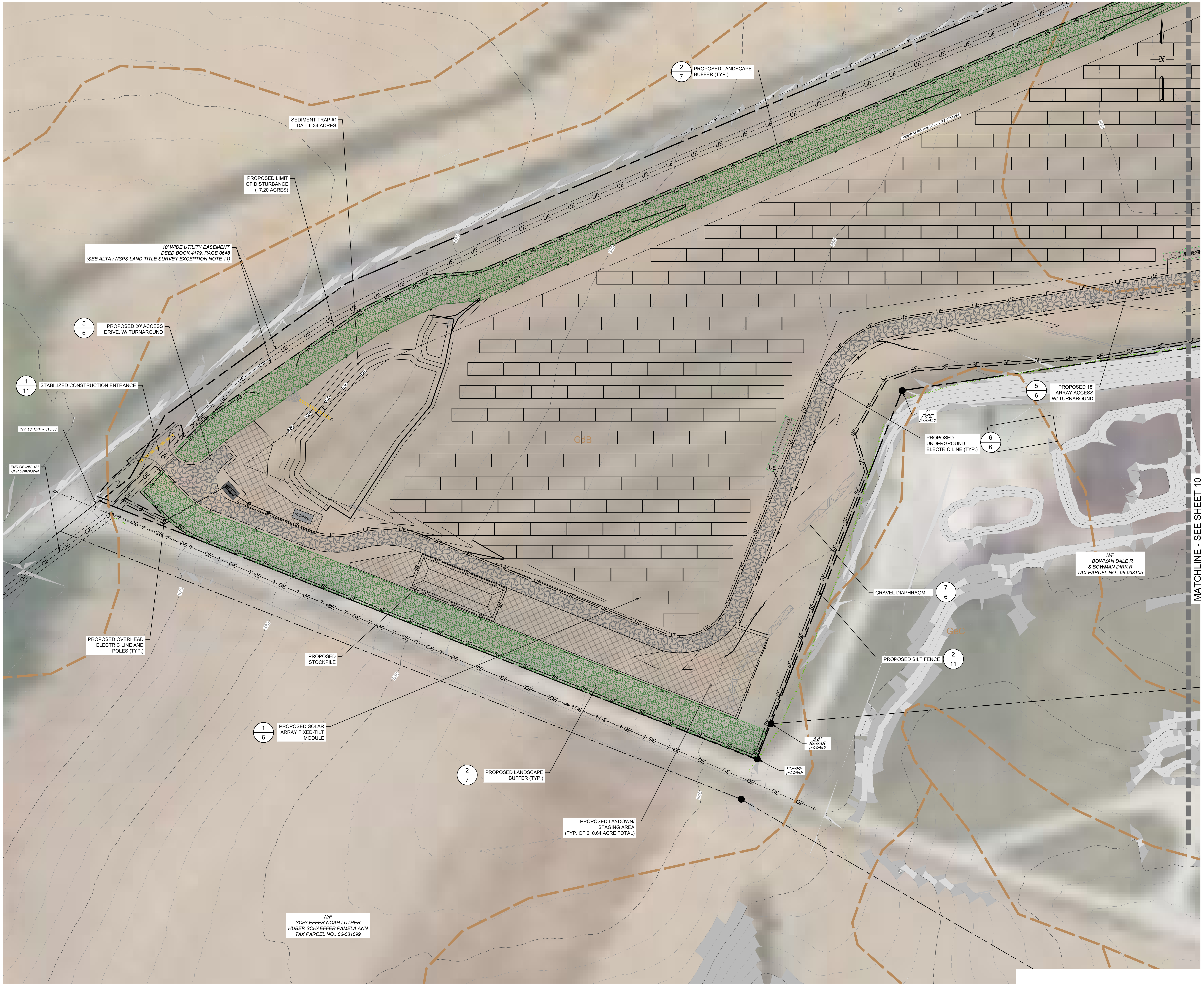
graphic scale: 0 100 200 300 SCALE IN FEET

drawing title: SIGHT DISTANCE PLAN
CONCEPT SITE DEVELOPMENT PLAN

project title: CHABERTON SOLAR PINE ROCK
CHABERTON SOLAR PINE ROCK LLC
WESTMINSTER
CARROLL COUNTY, MARYLAND

Sheet 8

P:\Chaberton\Projects\22011064 Pine Rock\DRWG\Production\Drawing Sets\Land Development Plan\22011064-Sh08-Sight Distance.dwg Plotted: May 8, 2025



LEGEND

NOTE: LEGEND IS TYPICAL, NOT ALL OBJECTS IN LEGEND APPEAR IN PLAN.

- 840 — EXISTING CONTOURS
- DELINEATED WETLANDS
- PROPERTY LINE
- ADJOINING PROPERTY LINE
- PROPERTY LINE SETBACK / NATURAL RESOURCE BUFFER
- EXISTING TREELINE
- EXISTING LANDSCAPING
- T — T — T — EXISTING COMMUNICATION LINE
- OE — OE — EXISTING OVERHEAD ELECTRIC LINE W/ POLES
- UE — UE — EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING MAPPED WATERCOURSE / POND
- EXISTING VERIFIED STREAM
- EXISTING 100-YR FEMA FLOODPLAIN
- EXISTING FENCE
- EXISTING SIGN
- EXISTING CULVERT
- EXISTING EDGE OF PAVED ROAD
- EXISTING EDGE OF UNPAVED ROAD
- EXISTING ROAD CENTERLINE
- EXISTING GUIDERAIL
- EXISTING RIGHT-OF-WAY / EASEMENT
- GdB — EXISTING SOIL BOUNDARY AND DESCRIPTOR
- TP — INFILTRATION TEST LOCATION
- EXISTING SLOPES 15% - 25%
- EXISTING SLOPES >25%
- 840 — PROPOSED CONTOURS
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED SECURITY FENCE
- UE — UE — PROPOSED UNDERGROUND ELECTRIC LINE
- OE — OE — PROPOSED OVERHEAD ELECTRIC LINE W/ POLE
- << — PROPOSED GRASS CHANNEL
- PROPOSED ACCESS ROAD/ EQUIPMENT PAD
- PROPOSED SOLAR MODULES
- PROPOSED TREES/ LANDSCAPE BUFFER
- PROPOSED LAYDOWN / STAGING AREA
- SF — SF — PROPOSED SILT FENCE

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

a. THREE (3) CALENDAR DAYS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, AND
b. SEVEN (7) CALENDAR DAYS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

STATE OF MARYLAND
CHARLES D. WALKER
No. 61081
PROFESSIONAL ENGINEER

[illegible]

5-8-25

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Engineers and Scientists
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No.	Revision	Date	By

designed	KJM
checked	AJR
drawn	KJM
scale	1" = 50'
date	5/9/2025
project no.	22011064

graphic scale: 0 50 100 150 SCALE IN FEET

drawing title: CONCEPTUAL SEDIMENT CONTROL PLAN
CONCEPT SITE DEVELOPMENT PLAN

project title: CHABERTON SOLAR PINE ROCK
CHABERTON SOLAR PINE ROCK LLC
WESTMINSTER
CARROLL COUNTY, MARYLAND

P:\Chaberton\Projects\22011064 Pine Rock\DRWG\Production\Drawing Sets\Land Development Plan\22011064-Sh09-Conceptual Sediment Control Plan.dwg Plotted: May 8, 2025

LEGEND

NOTE: LEGEND IS TYPICAL, NOT ALL OBJECTS IN LEGEND APPEAR IN PLAN.

- EXISTING CONTOURS
- DELINEATED WETLANDS
- PROPERTY LINE
- ADJOINING PROPERTY LINE
- PROPERTY LINE SETBACK / NATURAL RESOURCE BUFFER
- EXISTING TREELINE
- EXISTING LANDSCAPING
- EXISTING COMMUNICATION LINE
- EXISTING OVERHEAD ELECTRIC LINE W/ POLES
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING MAPPED WATERCOURSE / POND
- EXISTING VERIFIED STREAM
- EXISTING 100-YR FEMA FLOODPLAIN
- EXISTING FENCE
- EXISTING SIGN
- EXISTING CULVERT
- EXISTING EDGE OF PAVED ROAD
- EXISTING EDGE OF UNPAVED ROAD
- EXISTING ROAD CENTERLINE
- EXISTING GUIDERAIL
- EXISTING RIGHT-OF-WAY / EASEMENT
- EXISTING SOIL BOUNDARY AND DESCRIPTOR
- INFILTRATION TEST LOCATION
- EXISTING SLOPES 15% - 25%
- EXISTING SLOPES >25%
- PROPOSED CONTOURS
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED SECURITY FENCE
- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED OVERHEAD ELECTRIC LINE W/ POLE
- PROPOSED GRASS CHANNEL
- PROPOSED ACCESS ROAD/ EQUIPMENT PAD
- PROPOSED SOLAR MODULES
- PROPOSED TREES/ LANDSCAPE BUFFER
- PROPOSED LAYDOWN / STAGING AREA
- PROPOSED SILT FENCE

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a. THREE (3) CALENDAR DAYS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, AND
b. SEVEN (7) CALENDAR DAYS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

STATE OF MARYLAND — CHARLES D. WALKER — No. 61081 — PROFESSIONAL ENGINEER

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. 61081, EXPIRATION DATE: 05-11-27 — 5-8-25

S-25-0012

ARM Group LLC
Engineers and Scientists
www.armgroup.net

No.	Revision	Date	By

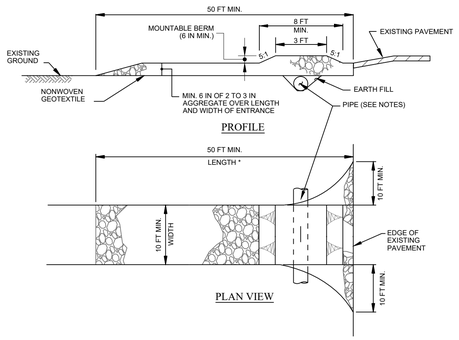
scale	1" = 50'
date	5/9/2025
project no.	220110064
designed	KJM
checked	AJR
drawn	KJM
graphic scale	0 50 100 150 SCALE IN FEET

drawing title: CONCEPTUAL SEDIMENT CONTROL PLAN
CONCEPT SITE DEVELOPMENT PLAN

project title: CHABERTON SOLAR PINE ROCK
CHABERTON SOLAR PINE ROCK LLC

WESTMINSTER
CARROLL COUNTY, MARYLAND

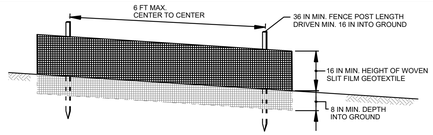
Sheet 10



NOTES:

1. STABILIZED CONSTRUCTION ENTRANCE DESIGN AS PER MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (DETAIL B-1).
2. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
3. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
4. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
5. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
6. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

1 DETAIL
STABILIZED CONSTRUCTION ENTRANCE (TYP.)
NOT TO SCALE



JOINING TWO ADJACENT SILT FENCE SECTION (TOP VIEW)

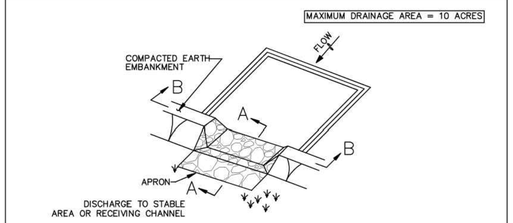
CONSTRUCTION SPECIFICATIONS:

1. USE WOOD POSTS 1 3/4 X 1 3/4 +1/16 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

2 DETAIL
SILT FENCE
NOT TO SCALE

DETAIL G-1-2 STONE/RIPRAP OUTLET SEDIMENT TRAP ST-II

STANDARD SYMBOL: ST–II



1 OF 3

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

G.11

DETAIL G-1-2 STONE/RIPRAP OUTLET SEDIMENT TRAP ST-II

STANDARD SYMBOL: ST–II

CONSTRUCTION SPECIFICATIONS

1. CONSTRUCT TRAP IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE AVOIDED.
2. CLEAR, GRUB, AND STRIP ANY VEGETATION AND ROOT MAT FROM THE AREA UNDER THE EMBANKMENT AND TRAP BOTTOM.
3. USE FILL MATERIAL FREE OF ROOTS, WOODY VEGETATION, OVERSIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL FOR THE EMBANKMENT.
4. CONSTRUCT TOP OF EMBANKMENT 1 FOOT MINIMUM ABOVE WEIR CREST. COMPACT THE EMBANKMENT BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
5. MAKE ALL CUT AND FILL SLOPES 2:1 OR FLATTER.
6. PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H–1 MATERIALS, OVER THE BOTTOM AND SIDES OF OUTLET AND APRON PRIOR TO PLACEMENT OF RIPRAP. OVERLAP SECTIONS OF GEOTEXTILE AT LEAST 1 FOOT WITH THE SECTION NEARER TO THE TRAP PLACED ON TOP. EMBED GEOTEXTILE AT LEAST 6 INCHES INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL.
7. USE CLEAN 4 TO 7 INCH RIPRAP TO CONSTRUCT THE WEIR. USE CLASS I RIPRAP FOR THE APRON. USE OF RECYCLED CONCRETE EQUIVALENT IS ACCEPTABLE.
8. PLACE 1 FOOT OF CLEAN ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE ON THE UPSTREAM FACE OF THE WEIR.
9. CONSTRUCT AND MAINTAIN THE OUTLET ACCORDING TO APPROVED PLAN, AND IN SUCH A MANNER THAT EROSION AT OR BELOW THE OUTLET DOES NOT OCCUR.
10. STABILIZE THE EMBANKMENT AND INTERIOR SLOPES WITH SEED AND MULCH. STABILIZE POINTS OF CONCENTRATED INFLOW AS SHOWN ON APPROVED PLAN.
11. REMOVE SEDIMENT AND RESTORE TRAP TO ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO CLEANOUT ELEVATION (50% OF WET STORAGE DEPTH). DEPOSIT REMOVED SEDIMENT IN AN APPROVED AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE. KEEP POINTS OF INFLOW AND OUTFLOW AS WELL AS INTERIOR OF THE TRAP FREE FROM EROSION, AND REMOVE ACCUMULATED DEBRIS. MAINTAIN EMBANKMENTS TO CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B–4 VEGETATIVE STABILIZATION. REMOVE ANY TREES, BRUSH, OR OTHER WOODY VEGETATION GROWING ON EMBANKMENT OR NEAR PRINCIPAL SPILLWAY. MAINTAIN LINE, GRADE, AND CROSS SECTION.
12. WHEN DEWATERING TRAP, PASS REMOVED WATER THROUGH AN APPROVED SEDIMENT CONTROL PRACTICE.
13. UPON REMOVAL, GRADE AND STABILIZE THE AREA OCCUPIED BY TRAP.

2 OF 3

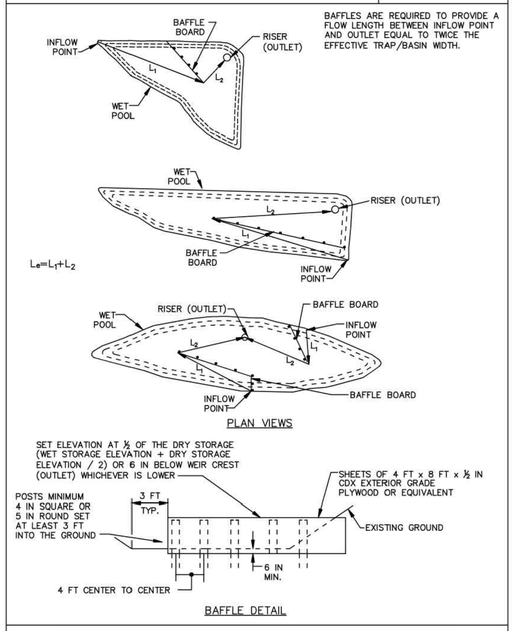
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

G.12

DETAIL G-2-4 BAFFLE BOARDS

STANDARD SYMBOL: BB



MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

G.46

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:
a. THREE (3) CALENDAR DAYS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, AND
b. SEVEN (7) CALENDAR DAYS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

STATE OF MARYLAND · CHARLES D. WALKER · No. 61081 · PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY 5-8-25
ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 61081, EXPIRATION DATE: 05-11-27

S-25-0012

ARM Group LLC
Engineers and Scientists
www.armgroup.net

No.	Revision	Date	By

drawing title: EROSION & SEDIMENT CONTROL DETAILS
CONCEPT SITE DEVELOPMENT PLAN

project title: CHABERTON SOLAR PINE ROCK
CHABERTON SOLAR PINE ROCK LLC

WESTMINSTER
CARROLL COUNTY, MARYLAND

designed	KJM
checked	AJR
drawn	KJM
graphic scale	

scale: AS NOTED
date: 5/9/2025
project no.: 220111064

Sheet 11

SEDIMENT & EROSION CONTROL NOTES

1. ALL EROSION/SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION IN ASSOCIATION WITH THE NATURAL RESOURCES CONSERVATION SERVICE AND THE MARYLAND ASSOCIATION OF SOIL CONSERVATION DISTRICTS (REFERENCED AS THE 2011 STANDARDS AND SPECS).
2. AREAS THAT HAVE BEEN CLEARED AND/OR GRADED, BUT WILL NOT BE CONSTRUCTED ON OR PERMANENTLY VEGETATED FOR MORE THAN 7 DAYS (3 DAYS FOR SEDIMENT CONTROL MEASURES AND FOR STEEP SLOPES) MUST BE STABILIZED WITH MULCH OR TEMPORARY STABILIZATION. ANY AREAS THAT ARE IN TEMPORARY VEGETATION FOR OVER 6 MONTHS WILL NEED TO BE PERMANENTLY VEGETATED.
3. FOR SPECIFICATIONS ON PERMANENT OR TEMPORARY STABILIZATION, SEE B-4-4 AND B-4-5.
4. MULCHING ONLY IS RESTRICTED TO USE ON DISTURBED AREAS AS A TEMPORARY COVER WHERE VEGETATION IS NOT FEASIBLE OR WHERE SEEDING GERMINATION CANNOT BE COMPLETED BECAUSE OF WEATHER CONDITIONS. FOR SPECIFICATIONS SEE B-4-3, A.1.B
5. FOR SPECIFICATIONS ON THE STABILIZATION OF CUT AND FILL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL, SEE INCREMENTAL STABILIZATION B-4-1
6. THE EXISTING TOPSOIL FROM ON OR OFF SITE THAT IS USED MUST MEET THE MINIMUM SPECIFICATION IN B-4-2
7. THE REQUIRED SEQUENCE OF CONSTRUCTION MUST BE FOLLOWED DURING SITE DEVELOPMENT. ANY CHANGES IN THE SEQUENCE OF CONSTRUCTION MUST BE APPROVED BY THE SOIL CONSERVATION DISTRICT.
8. ANY REVISIONS TO THE SEDIMENT CONTROL PLAN, NOT COVERED UNDER THE LIST OF PLAN MODIFICATIONS THAT CAN BE APPROVED BY THE SEDIMENT CONTROL INSPECTOR, NEED TO BE SUBMITTED TO THE SOIL CONSERVATION DISTRICT FOR APPROVAL.
9. NO PROPOSED SLOPE THAT IS REQUIRED TO BE SEEDED AND/OR MULCHED SHALL BE STEEPER THAN 2:1. SLOPES STEEPER THEN 2:1 SHALL REQUIRE A ENGINEERED DESIGN FOR STABILIZATION
10. ALL SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED ONCE A WEEK AND AFTER EACH RAINFALL AND WILL BE REPAIRED, AS NEEDED, SO THAT THE STRUCTURE MEETS THE MINIMUM SPECIFICATIONS AS SHOWN IN THE 2011 STANDARDS AND SPECS.
11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SEDIMENT AND EROSION CONTROL MEASURES UNTIL THE DISTURBED AREAS ARE PERMANENTLY STABILIZED.
12. THE DISTRICT APPROVAL FOR THIS SEDIMENT CONTROL PLAN IS GOOD FOR 2 YEARS. AT THE END OF 2 YEARS, IF CONSTRUCTION OF THE PLAN HAS NOT STARTED, THE PLAN WILL NEED TO BE RESUBMITTED TO THE SOIL CONSERVATION DISTRICT FOR REVIEW AND RE-APPROVAL. ANY PLANS THAT ARE CURRENTLY UNDER CONSTRUCTION AFTER 2 YEARS MAY BE REQUIRED TO BE RESUBMITTED TO THE SOIL CONSERVATION DISTRICT BY THE SEDIMENT CONTROL INSPECTOR.

** ANY PROJECT THAT HAS A STATE ISSUED N.O.I. PERMIT, DOCUMENT EACH INSPECTION AND MAINTAIN AN INSPECTION LOG (PLEASE SEE NOI FOR DETAILS)

CONCEPTUAL SEQUENCE OF CONSTRUCTION

1. CONTACT THE CARROLL COUNTY SEDIMENT CONTROL INSPECTOR (1-410-386-2210) 24 HOURS PRIOR TO DOING ANYTHING ON THE SITE TO SET UP A PRE-CONSTRUCTION MEETING AND TO MAKE SURE ALL LOCAL ORDINANCE ITEMS HAVE BEEN SATISFIED.
2. AN ONSITE PRE-CONSTRUCTION MEETING WILL TAKE PLACE BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES.THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE PERIMETER CONTROL LOCATIONS STAKED IN THE FIELD PRIOR TO THE PRE-CONSTRUCTION MEETING. CONTRACTOR SHALL NOTIFY MISS UTILITY (1-800-257-7777) A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO START OF CONSTRUCTION. THE NPDES NOI SHALL BE RECEIVED FROM MDE AND A COPY PROVIDED TO SCD PRIOR TO START OF CONSTRUCTION.
3. IDENTIFY AND DELINEATE THE LIMITS OF DISTURBANCE (LOD) AND/OR LEASE AREA, ALONG WITH THE LOCATIONS OF THE E&S CONTROLS AND OTHER PERTINENT CONSTRUCTION FEATURES PRIOR TO SITE CONSTRUCTION. THE DEVELOPER IS RESPONSIBLE TO ENSURE THAT DISTURBANCE DOES NOT OCCUR OUTSIDE OF THE DEMARCATED LOD.
4. INSTALL THE PERIMETER CONTROLS IN ALL LOCATIONS ON THE E&S CONTROL PLANS.
5. INSTALL THE PROPOSED STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON THE DRAWINGS. SOME GRADING WILL BE ASSOCIATED WITH THE CONSTRUCTION OF THE STABILIZED CONSTRUCTION ENTRANCE TO PROVIDE ADEQUATE GRADES FROM THE EXISTING ROAD ELEVATION DOWN TO THE PROPOSED DRIVE AND PAD AREA IN THE EXISTING FIELD.
6. INSTALL SEDIMENT TRAPS. ONCE PERIMETER CONTROLS AND SEDIMENT TRAPS HAVE BEEN INSTALLED, NOTIFY INSPECTOR AND OBTAIN APPROVAL BEFORE PROCEEDING FURTHER. NOTE THAT THE CONTRACTOR IS RESPONSIBLE FOR CHECKING THE CONDITION OF ALL SEDIMENT CONTROL MEASURES AFTER EACH RAIN EVENT AND REPAIRING OR PROVIDING THE NECESSARY MAINTENANCE TO PROVIDE EFFECTIVE SITE SEDIMENT CONTROL.
7. DEMARCATE THE LAYDOWN AREA.
8. PERFORM MINIMAL SITE GRADING FOR THE CONSTRUCTION OF THE ACCESS DRIVE AND EQUIPMENT PAD.
9. INSTALL SUBBASE MATERIAL FOR THE ACCESS DRIVE AND EQUIPMENT PAD IN ACCORDANCE WITH THE SPECIFICATION PROVIDED ON THE PLANS.
10. PLACE FINISHED STONE AND COMPACT ACCESS DRIVE TO REDUCE THE POTENTIAL FOR WASHOUT DURING RAIN EVENTS.
11. INSTALL EQUIPMENT PAD IN PREPARATION FOR ELECTRICAL EQUIPMENT INSTALLATION.
12. INSTALL PERMANENT SECURITY PERIMETER FENCING.
13. INSTALL SOLAR ARRAY RACKING SYSTEM.
14. INSTALL SOLAR PANEL MODULES, INVERTERS, ELECTRICAL STRINGS, TRANSFORMER, AND THE REMAINDER OF THE ELECTRICAL SYSTEMS ASSOCIATED WITH THE PHOTOVOLTAIC ARRAY.
15. INSTALLATION OF THE PROPOSED SECURITY FENCING, RACKING MODULES, AND ALL NON-PERMANENT EQUIPMENT ASSOCIATED WITH THE PV ARRAY SHALL BE COMPLETED USING TRACKED EQUIPMENT AND DURING DRY WEATHER EVENTS TO ENSURE NO ADDITIONAL SOIL DISTURBANCES OCCUR OUTSIDE OF THE DEMARCATED LOD.
16. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT INSTALLATION ONLY OCCURS WHEN SITE SOILS ARE DRY TO REDUCE THE LIKELIHOOD OF RUTTING OR DISTURBANCE OF SOIL SUBSTRATE TO THE GREATEST EXTEND POSSIBLE. IF RUTTING OR EROSION OCCURS DURING CONSTRUCTION ON NON-PERMANENT FEATURES, WORK SHALL CEASE IMMEDIATELY, AND IMPACTED AREAS SHALL BE IMMEDIATELY STABILIZED IN ACCORDANCE WITH THE TEMPORARY AND PERMANENT SEEDING SPECIFICATIONS PROVIDE ON THE EROSION AND SEDIMENT CONTROL PLANS.
17. COMPLETE SITE STABILIZATION IN ACCORDANCE WITH THE SPECIFICATIONS PROVIDED ON THIS SHEET. ALL EROSION AND SEDIMENT CONTROL BMPS SHALL BE LEFT IN PLACE UNTIL A UNIFORM STABILIZED VEGETATIVE COVER IS ACHIEVED.
18. UPON ESTABLISHMENT OF UNIFORM PERENNIAL VEGETATIVE COVER OVER DISTURBED AREAS AND WITHIN THE SOLAR ARRAY FENCE, THE DEVELOPER SHALL CONTACT THE CARROLL COUNTY SEDIMENT CONTROL INSPECTOR PRIOR TO REMOVING ANY SEDIMENT CONTROL MEASURES. APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR IS REQUIRED.
19. ONCE CONTRIBUTING DRAINAGE AREAS ARE STABILIZED, CONVERT SEDIMENT TRAPS TO SUBMERGED GRAVEL WETLANDS.
    - 19.1. REMOVE BAFFLE BOARDS AND HORIZONTAL DRAWDOWN.
    - 19.2. EXCAVATE TRAP TO REMOVE ACCUMULATED SEDIMENT AND ALLOW FOR GRAVEL AND FILTER MEDIA INSTALLATION
    - 19.3. INSTALL GRAVEL AND FILTER MEDIA AS SHOWN ON PLAN
    - 19.4. INSTALL LANDSCAPING AS SHOWN ON PLAN
20. RECLAIM LAYDOWN AREAS AND IMMEDIATELY HAVE TOPSOIL RESTORED, REPLACED, OR AMENDED, SEEDED, MULCHED, OR OTHERWISE PERMANENTLY STABILIZED AND PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION. NON-GRAVEL AREAS WILL BE RECLAIMED TO MEADOW CONDITIONS, OR BETTER, AND WILL BE SEEDED AND MULCHED TO HELP STABILIZE THE DISTURBED AREAS.
21. UPON REMOVAL OF SEDIMENT CONTROL MEASURES, CONTRACTOR SHALL STABILIZE ANY DISTURBANCE CAUSED BY REMOVAL.
22. THE SEQUENCE OF CONSTRUCTION LISTED ABOVE IS FOR USE BY THE CONTRACTOR AS A GENERAL GUIDELINE FOR CONSTRUCTION ACTIVITIES AND MAY BE ADJUSTED, AS NEEDED, UPON APPROVAL IN WRITING BY THE ENGINEER AND COUNTY.
23. CONTRACTOR STORAGE, PARKING, AND STAGING WILL BE CONFINED WITHIN THE DEMARCATED LOD AND IN THE AREAS DESIGNATED ON THE PLANS AS STAGING AREA; NO STORAGE, PARKING, OR STAGING SHALL OCCUR OUTSIDE THE STAGING AREA.

TEMPORARY CONTROLS

1. UPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY OF ANY STAGE OR PHASE OF AN ACTIVITY, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE ACTIVITIES.
2. FOR AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY TO BE CONSIDERED TEMPORARILY STABILIZED, THE DISTURBED AREAS SHALL BE COVERED WITH ONE OF THE FOLLOWING:
    - 2.1. A MINIMUM UNIFORM COVERAGE OF MULCH AND SEED, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION.
    - 2.2. AN ACCEPTABLE BMP WHICH TEMPORARILY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION.
3. BEFORE SEEDING, APPLY SOIL AMENDMENTS AND/OR FERTILIZER WITH TOPSOIL AS REQUIRED.
4. THOROUGHLY LOOSEN THE AREAS TO BE SEEDED BY AN APPROVED METHOD UNTIL THE TILLAGE IS ACCEPTED. IRREGULARITIES IN THE SURFACE, RESULTING FROM TILLAGE OR FROM OTHER OPERATIONS, SHALL BE SMOOTHED BEFORE SEEDING OPERATIONS BEGIN TO PREVENT THE FORMATION OF WATER-COLLECTING POCKETS.
5. ALL SEEDS SHALL BE FURNISHED TO THE PROJECT SITE IN MIX PREPARED BY THE SEED PROCESSOR. THE MIX SHALL HAVE A CERTIFICATION TAG WHICH SHALL BE PRESENTED TO THE OWNER'S REPRESENTATIVE. THE MIXTURE SHALL BE AS FOLLOWS:
    - 5.1. TEMPORARY MIXTURE: THIS MIX SHALL BE USED ON ALL AREAS TO BE SEEDED AFTER DISTURBANCE, BUT PRIOR TO IMPLEMENTATION OF PERMANENT CONTROL MEASURES.

MIX	% MIX	PURITY	GERMINATION
ANNUAL RYEGRASS	100%	95%	90%

6. THE PREPARED AREAS SHALL THEN BE SEEDED WITH THE SPECIFIED SEED BY MEANS OF A MECHANICAL HOPPER TYPE SEEDER AT THE RATE OF 40 LBS/ACRE.
7. THE SEED SHALL BE SOWN EVENLY IN TWO DIRECTIONS, WITH ONE-HALF (1/2) OF THE SEED BEING SOWN IN A DIRECTION AT RIGHT ANGLES TO THE OTHER HALF. SEEDING SHALL BE DONE ON A DAY WHEN THERE IS NO WIND.
8. AFTER SOWING THE SEED, THE AREA SHALL BE LIGHTLY RAKED TO COVER SEED TO AN AVERAGE DEPTH OF ONE-FOURTH INCH (1/4") AND ROLLED WITH A 200-POUND ROLLER. THE COMPLETED AREAS SHALL PRESENT A SMOOTH AND FINISHED APPEARANCE. THE SEEDING AND COMPACTING OF THE LARGE AREAS MAY BE ACCOMPLISHED BY USE OF A "GILL SEEDER" OR OTHER MECHANICAL SEEDER.
9. MEASURES PRESENTED HEREIN SHALL BE SUPPLEMENTED OR MODIFIED BY CONTRACTOR DURING THE WORK BASED ON ACTUAL SEQUENCE, TIMING, AND METHODS OF CONSTRUCTION AS NECESSARY TO COMPLY WITH MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL REQUIREMENTS.
10. MULCH SHALL BE PLACED OVER DISTURBED AREAS IMMEDIATELY AFTER RAKING AND SEEDING OR PLANTING HAS BEEN PERFORMED. SALT HAY OR OTHER SALINE MARSH GRASSES ARE NOT ACCEPTABLE. THE MATERIAL SHALL BE APPLIED AT AN AVERAGE MINIMUM DEPTH OF TWO INCHES (2") LOOSE MEASUREMENT. CARE SHALL BE TAKEN WHEN PLACING THE MULCH SO AS NOT TO DISTURB THE SEEDED SURFACES. THE MULCH SHALL BE SECURED BY THE FOLLOWING METHOD, OR OTHER METHOD PRESENTED BY THE CONTRACTOR AND ACCEPTABLE TO THE OWNER'S REPRESENTATIVE:
    - 10.1 CLEAN OAT OR WHEAT STRAW SHALL BE FREE FROM MATURE SEED-BEARING STALKS OR ROOTS OF PROHIBITED OR NOXIOUS WEEDS AS DEFINED BY MDE. APPLY AT A RATE OF THREE (3) TONS PER ACRE (ONE-HUNDRED TWENTY-FIVE (125) POUNDS PER ONE-HUNDRED (100) SQUARE YARDS). PRECAUTIONS SHALL BE TAKEN TO STABILIZE THE MULCH UNTIL THE VEGETATIVE COVER IS ESTABLISHED. MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT WINDBLOWN TRANSPORT.
    - 10.2.FLEXTERRA HIGH PERFORMANCE - FLEXIBLE GROWTH MEDIUM (HP-FGM) MAY BE USED.

PERMANENT CONTROLS

1. NATIVE POLLINATOR SEED MIXES ARE INTENDED TO PROVIDE A EXCELLENT WILDLIFE FOOD AND SHELTER THAT WILL ATTRACT A VARIETY OF POLLINATORS AND SONGBIRDS. THE NATIVE WILDFLOWERS AND GRASSES IN THIS MIX PROVIDE AN ATTRACTIVE DISPLAY OF COLOR FROM SPRING TO FALL. POLLINATOR SEED MIXES ARE INTENDED TO PROVIDE NECTAR AND FOOD SOURCES FOR A VARIETY OF POLLINATORS AND LARVA. THESE MIXES ARE COMPRISED OF A FAIRLY EVEN MIX OF NATIVE AND/OR INDIGENOUS WILDFLOWERS AND GRASSES. THE POLLINATOR SEED MIX IS INTENDED TO BE SOWN IN DESIGNATED AREAS OF THE SOLAR ARRAY FIELD.
2. UPON FINAL COMPLETION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY, THE SITE SHALL IMMEDIATELY HAVE TOPSOIL RESTORED, REPLACED, OR AMENDED, SEEDED, MULCHED, OR OTHERWISE PERMANENTLY STABILIZED AND PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION.
3. E&S BMPS SHALL BE IMPLEMENTED AND MAINTAINED UNTIL THE PERMANENT STABILIZATION IS COMPLETED. ONCE PERMANENT STABILIZATION HAS BEEN ESTABLISHED, THE TEMPORARY E&S BMPS SHALL BE REMOVED. ANY AREAS DISTURBED IN THE ACT OF REMOVING TEMPORARY E&S BMPS SHALL BE PERMANENTLY STABILIZED UPON COMPLETION OF THE TEMPORARY E&S BMP REMOVAL ACTIVITY.
4. FOR AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY TO BE CONSIDERED PERMANENTLY STABILIZED, THE DISTURBANCE AREAS SHALL BE COVERED WITH ONE OF THE FOLLOWING:
    - 4.1. A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION.
    - 4.2. AN ACCEPTABLE BMP WHICH PERMANENTLY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION.
5. PERMANENT SEEDING AND MULCHING WILL BE INCORPORATED INTO THE OPERATIONS DURING THE APPROVED PLANTING SEASONS. SEED APPLICATION WILL BE WITH CYCLONE SEEDER, DRILL, OR CULTI-PACKER SEEDER. MULCH WILL BE SPREAD AND ANCHORED MECHANICALLY OR UNIFORMLY BY HAND.
6. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE STABILIZED BY APPLYING A SEED MIXTURE TO ESTABLISH AN EROSION-RESISTANT STAND OF VEGETATION IN THE LEAST AMOUNT OF TIME.
    - 6.1. ALL SEEDS SHALL BE FURNISHED TO THE PROJECT SITE IN MIX PREPARED BY THE SEED PROCESSOR. THE MIX SHALL HAVE A CERTIFICATION TAG WHICH SHALL BE PRESENTED TO THE OWNER'S REPRESENTATIVE. THE MIXTURE SHALL BE AS FOLLOWS:
        - 6.1.1. NATIVE UPLAND VEGETATION- SEE SOLAR ARRAY SEED MIX SPECIFICATIONS ON THIS SHEET, OR ENGINEER APPROVED EQUIVALENT. THIS IS TO BE USED ON ALL DISTURBED AREAS, INCLUDING IN AND AROUND THE SOLAR ARRAYS AND LAYDOWN AREAS.
        - 6.1.2. MANUFACTURER NOTE: THE FUZZ & BUZZ MIX-STANDARD WAS DEVELOPED TO ADDRESS THE UNIQUE NUTRITIONAL NEEDS OF SHEEP, WHILE PROVIDING A LOW-GROWING, EASILY MAINTAINED AND SUSTAINABLE VEGETATION SOLUTION FOR SOLAR INSTALLATIONS. THE PLANT SPECIES WERE CHOSEN WITH GUIDANCE FROM THE AMERICAN SOLAR GRAZING ASSOCIATION (ASGA). THE WILDFLOWERS IN THIS MIX SUPPORT POLLINATORS. MIX FORMULATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE DEPENDING ON THE AVAILABILITY OF EXISTING AND NEW PRODUCTS. WHILE THE FORMULA MAY CHANGE, THE GUIDING PHILOSOPHY AND FUNCTION OF THE MIX WILL NOT.
    - 6.2. BEFORE SEEDING, APPLY SOIL AMENDMENTS AND/OR FERTILIZER WITH TOPSOIL AS REQUIRED.
    - 6.3. THE PREPARED AREAS SHALL THEN BE SEEDED WITH THE SPECIFIED SEED BY MEANS OF A MECHANICAL HOPPER TYPE SEEDER AT THE RATE AS SPECIFIED IN THE NATIVE SEEDING SCHEDULE.
    - 6.4. THE SEED SHALL BE SOWN EVENLY IN TWO DIRECTIONS, WITH 1/2 OF THE SEED BEING SOWN IN A DIRECTION AT RIGHT ANGLES TO THE OTHER HALF. SEEDING SHALL BE DONE ON A DAY WHEN THERE IS NO WIND.
    - 6.5. AFTER SOWING THE SEED, THE AREA SHALL BE LIGHTLY RAKED TO COVER SEED TO AN AVERAGE DEPTH OF ONE-FOURTH INCH (1/4") AND ROLLED WITH A 200-POUND ROLLER. THE COMPLETED AREAS SHALL PRESENT A SMOOTH AND FINISHED APPEARANCE. THE SEEDING AND COMPACTING OF THE LARGE AREAS MAY BE ACCOMPLISHED BY USE OF A "GILL SEEDER" OR OTHER MECHANICAL SEEDER.
7. MEASURES PRESENTED HEREIN SHALL BE SUPPLEMENTED OR MODIFIED BY CONTRACTOR DURING THE WORK BASED ON ACTUAL SEQUENCE, TIMING, AND METHODS OF CONSTRUCTION AS NECESSARY TO COMPLY WITH MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL REQUIREMENTS.
8. MULCH SHALL BE PLACED OVER DISTURBED AREAS IMMEDIATELY AFTER RAKING AND SEEDING OR PLANTING HAS BEEN PERFORMED. SALT HAY OR OTHER SALINE MARSH GRASSES ARE NOT ACCEPTABLE. THE MATERIAL SHALL BE APPLIED AT AN AVERAGE MINIMUM DEPTH OF TWO INCHES (2") LOOSE MEASUREMENT. CARE SHALL BE TAKEN WHEN PLACING THE MULCH SO AS NOT TO DISTURB THE SEEDED SURFACES. THE MULCH SHALL BE SECURED BY THE FOLLOWING METHOD, OR OTHER METHOD PRESENTED BY THE CONTRACTOR AND ACCEPTABLE TO THE OWNER'S REPRESENTATIVE:
    - 8.1. CLEAN OAT OR WHEAT STRAW SHALL BE FREE FROM MATURE SEED-BEARING STALKS OR ROOTS OF PROHIBITED OR NOXIOUS WEEDS AS DEFINED BY MDE. APPLY AT A RATE OF THREE (3) TONS PER ACRE (ONE-HUNDRED TWENTY-FIVE (125) POUNDS PER ONE-HUNDRED (100) SQUARE YARDS). PRECAUTIONS SHALL BE TAKEN TO STABILIZE THE MULCH UNTIL THE VEGETATIVE COVER IS ESTABLISHED. MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT WINDBLOWN TRANSPORT.
    - 8.2. FLEXTERRA HIGH PERFORMANCE - FLEXIBLE GROWTH MEDIUM (HP-FGM) MAY BE USED.

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

a. THREE (3) CALENDAR DAYS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, AND
b. SEVEN (7) CALENDAR DAYS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

STATE OF MARYLAND — CHARLES D. WALKER — No. 61081 — PROFESSIONAL ENGINEER

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. 61081, EXPIRATION DATE: 05-11-27 — 5-8-25

S-25-0012

ARM Group LLC
Engineers and Scientists
www.armgroup.net

No.	Revision	Date	by

scale: AS NOTED
date: 5/9/2025
project no.: 22011064

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checked: AJR
drawn: KJM
graphic scale:

EROSION & SEDIMENT CONTROL NOTES
CONCEPT SITE DEVELOPMENT PLAN

project title: CHABERTON SOLAR PINE ROCK
CHABERTON SOLAR PINE ROCK LLC

WESTMINSTER
CARROLL COUNTY, MARYLAND

drawing title

Sheet 12

P:\Chaberton\Pevgro-22011064 Pine Rock DB\WO\Permits\Site Drawing Set\Land Development Plan\22011064-SD11_LDLS Details.dwg Plotted: May 8, 2025