CONCEPT SITE DEVELOPMENT PLANS

FOR

CAPE HORN ROAD SOLAR

AT

#2700 CAPE HORN ROAD
WESTMINSTER MD

COMMISSIONER DISTRICT No. 2
ELECTION DISTRICT No. 08-002
CARROLL COUNTY, MARYLAND

GENERAL CONSTRUCTION NOTES:

1. ALL CONSTRUCTION ON THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH BOOK OF STANDARDS, HIGHWAY AND INCIDENTAL STRUCTURES AND STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS BY MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION (MSHA), 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL BY WATER RESOURCES ADMINISTRATION, SOIL CONSERVATION SERVICE AND STATE SOIL CONSERVATION COMMITTEE AND 2009 MARYLAND STORMWATER DESIGN MANUAL VOLUMES I & II, INCLUDING ALL REVISIONS AND SUPPLEMENTS, MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION.

2. THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND DEPTH OF ANY UTILITIES AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY PRIOR TO BEGINNING WORK.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEERING OFFICE OF DAFT MCCUNE WALKER (DMW) AT 301-696-9040 IN THE EVENT OF ANY DISCREPANCIES IN THE PLANS OR IN THE RELATIONSHIPS OF FINISHED GRADES TO EXISTING GRADE PRIOR TO BEGINNING WORK.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC ON ANY EXISTING ROADS IN ACCORDANCE WITH THE LATEST EDITION OF MARYLAND STATE HIGHWAY ADMINISTRATION AND FEDERAL (USDOT FHA, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS. IF A SHA PUBLIC UTILITY PERMIT IS APPLIED FOR, THE CONTRACTOR SHALL BE NAMED AS THE TRAFFIC CONTROL MANAGER AND SHALL COMPLY WITH ALL SHA TRAFFIC CONTROL STANDARDS.

5. THE CONTRACTOR SHALL NOTE THAT IN CASE OF A DISCREPANCY BETWEEN THE SCALED AND FIGURED DIMENSIONS SHOWN ON THESE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN.

6. IT SHALL BE DISTINCTLY UNDERSTOOD THAT THE FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT, SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.

7. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AT LEAST THREE WORKING DAYS BEFORE STARTING ANY CONSTRUCTION:
BALTIMORE GAS & ELECTRIC..........1-800-233-1854
VERIZON (TELEPHONE)..........301-275-2355
COMCAST (CABLE)..........301-662-6822, EXT. 133
MISS UTILITY (AT LEAST FIVE DAYS NOTICE)..........1-800-257-7777

8. ALL EXISTING PAVING DISTURBED BY THE CONTRACTOR SHALL BE REPLACED TO THE THICKNESS AS SHOWN ON THE PAVEMENT PLAN OR TO THE SAME THICKNESS AS THE EXISTING PAVEMENT, WHICHEVER IS GREATER. PAVEMENT SHALL BE INSTALLED ACCORDING TO CARROLL COUNTY AND MSHA SPECIFICATIONS.

9. ALL RIP-RAP SHALL BE LOOSE-LAID STONE. RIP-RAP PLACED AT STORM DRAIN OUTFALLS IN EXISTING SWALES SHALL BE PLACED SO AS TO COMPLETELY LINE THE EXISTING SWALE WITH ONLY THE MINIMUM POSSIBLE GRADING OR SHAPING OF THE SWALE.

10. INLETS IN SUMPS SHALL BE CONSTRUCTED LEVEL AT THE ELEVATION GIVEN IN THE STRUCTURE SCHEDULE. INLETS ON GRADE SHALL BE ADJUSTED SO THE GRADE ON THE TOP SLAB MATCHES THE GRADE OF THE CURB.

11. ALL ROADS, DRIVES AND PARKING AREAS SHALL BE COMPACTED IN ACCORDANCE WITH STATE HIGHWAY ADMINISTRATION SPECIFICATIONS, SECTION 204 (EMBANKMENT AND SUBGRADE SECTION), LATEST EDITION.

12. DMW IS NOT RESPONSIBLE FOR THE CONTRACTOR'S MEANS OR METHODS FOR CONSTRUCTION, INCLUDING BUT NOT LIMITED TO THE CONTRACTOR'S UTILIZATION OF MEN, MATERIALS, EQUIPMENT OR SAFETY MEASURES. IN THE PERFORMANCE OF ANY WORK FOR THIS CONSTRUCTION, THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR PERFORMING THE WORK CORRECTLY, SAFELY AND IN CONFORMANCE WITH ALL FEDERAL, STATE AND LOCAL CODE AND/OR REGULATORY REQUIREMENTS.

13. CERTAIN AREAS OF CARROLL COUNTY ARE LOCATED WITHIN THE MONOCACY VALLEY REGION WHICH IS HISTORICALLY CONSIDERED TO CONTAIN SUBSURFACE LIMESTONE FORMATIONS WITH INHERENT SOLUTION CAVITIES COMMONLY REFERRED TO AS SINKHOLES. THE PARTY RESPONSIBLE (CONTRACTOR) FOR CONSTRUCTION OF THIS PROJECT SHALL RETAIN THE SERVICES OF A PROFESSIONAL GEOTECHNICAL ENGINEER TO INVESTIGATE THE SITE'S SUITABILITY FOR CONSTRUCTION AND MAKE RECOMMENDATIONS FOR SITE DEVELOPMENT AND CORRECTIVE MEASURES IF SUBSURFACE CONDITIONS AFFECTING THE SITE ARE DISCOVERED.

14. ANY ATTEMPTS TO ESTIMATE COSTS ASSOCIATED WITH ROCK HANDLING/REMOVAL AND/OR SUBSURFACE CONDITIONS MUST BE BASED ON GEOTECHNICAL REPORTS AND RECOMMENDATIONS. GEOTECHNICAL REPORTS MAY INCLUDE INFORMATION PERTINENT TO THE DEVELOPMENT OF THE SITE WHICH IS NOT INCLUDED ON THE PLANS. THE CONTRACTOR MUST CONSULT ANY EXISTING GEOTECHNICAL AND OTHER CONSULTANT'S REPORTS IN CONJUNCTION WITH THIS SET OF PLANS.

15. PLACEMENT OF ANY WORK SUCH AS CURB, GUTTER, SIDEWALK, DRIVEWAY APRONS, ETC. SHALL BE COMMENCED ONLY AFTER THE INSTALLATION OF ALL UTILITIES INCLUDING GAS LINES, ELECTRICAL LINES, STREET LIGHT CONDUITS, TELEVISION CABLE, WATER AND SEWER LINES AND ROOF DRAINS, ETC., ARE IN PLACE.

16. SAFE AND LEGAL DISPOSAL OF DEMOLISHED ITEMS IS THE CONTRACTOR'S RESPONSIBILITY.

WATER RESOURCE MANAGEMENT NOTES:

1. THIS PROJECT WILL NOT USE, TRANSFER OR STORE HAZARDOUS OR REGULATED SUBSTANCES ON SITE.

2. THERE SHALL BE NO SOIL DISTURBANCE WITHIN THE STREAM BUFFER.

3. THERE ARE NO KNOWN SINKHOLES ON THE SUBJECT PROPERTY. A KARST INVESTIGATION HAS NOT BEEN CONDUCTED ON THE PROPERTY.

SITE SPECIFIC NOTES:

1. THE SUBJECT PROPERTY TOTALS 35.789 ACRES± AND IS LOCATED AT #2700 CAPE HORN ROAD HEMPSTEAD MD. THE SUBJECT PROPERTY IS ALSO LOCATED ON TAX MAP 40, PARCEL 441 AND HAS TAX ID No. 08-041040. PROPERTY IS OWNED BY ANDREW & LORI ANN BARNARD BY DEED RECORDED IN L. 2804 F. 565. THE PROPOSED LIMIT OF DISTURBANCE (LOD) IS 16.25 ACRES.

2. COORDINATES AND BEARINGS SHOWN ON THESE PLANS ARE REFERENCED TO THE NAD 83/91 SYSTEM OF COORDINATES. VERTICAL DATUM IS BASED ON NAVID 88.

3. THE BOUNDARY AND TOPOGRAPHIC SURVEY FOR THIS PROJECT WAS COMPLETED BY BECKER MORGAN GROUP IN MAY 2022.

4. THE SUBJECT PROPERTY LIE WITHIN AREA "X", AN AREA OF MINIMAL FLOOD HAZARD, PER FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 24013C0210D, WITH AN EFFECTIVE DATE OF 10/2/2015

5. WETLANDS AND BOG TURTLE HABITAT WERE DELINEATED ON THIS SITE PER A REPORT PREPARED BY WATERSHED ECO DATED 5/4/2022 AND VERIFIED BY MDE. THERE ARE NO IMPACTS TO EXISTING WETLANDS, WETLAND BUFFER, AND BOG TURTLE HABITAT. THE PROPOSED LOD WILL ENCROACH WITHIN THE FEDERALLY MANDATED 300-FOOT BUFFER SURROUNDING THE BOG TURTLE HABITAT.

6. THE PROPOSED USE OF THIS PROPERTY IS AN UN-MANNED 2.125 MW SOLAR ENERGY CONVERSION FACILITY, UNDER PSC CASE NUMBER 9747 AND PULJ ORDER NUMBER 92049 DATED NOVEMBER 22, 2025. THE PROPOSED SOLAR PANEL IMPERVIOUS AREA IS 2.70 ACRES, AND THE PROPOSED FENCED IN AREA IS 11.08 ACRES. POWER PRODUCTION WILL BE MONITORED REMOTELY. THE CURRENT USE IS AGRICULTURE.

7. SETBACKS:

ZONE: A - AGRICULTURAL	REQUIRED	PROPOSED
FRONT:	40 FT.	53 FT.
REAR:	50 FT.	85 FT.
SIDE:	30 FT.	55 FT.

8. PARKING: THIS WILL BE AN UN-MANNED FACILITY. VEHICLE TRIP GENERATION IS ESTIMATED TO BE ON AVERAGE: 1 TRIP PER MONTH FOR ROUTINE MAINTENANCE WHICH IS LESS THAN 1 AVERAGE DAILY TRIP.
PARKING CALCULATION:
PARKING TABULATION REQUIREMENTS: 1 SPACE PER ARRAY + 1 FOR EACH ON-SITE EMPLOYEE
MINIMUM REQUIRED PARKING = 2 SPACES + 0 ON-SITE EMPLOYEES = 2 SPACES
TWO (2) ON-SITE PARKING SPACES ARE PROPOSED

9. FOREST CONSERVATION:
THIS PROJECT IS EXEMPT FROM THE CARROLL COUNTY FOREST CONSERVATION CODE PER SECTION 150.21(B)(5). THERE IS AN EXISTING FOREST CONSERVATION EASEMENT RECORDED IN L.3346 F. 55.

10. STORMWATER MANAGEMENT (SWM):
   A. SWM SHALL BE PROVIDED BY NON-ROOFTOP DISCONNECTION WITH LEVEL SPREADERS. THE SITE SHALL BE STABILIZED WITH VEGETATION WHILE FALLOW PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
   B. A "STORMWATER MANAGEMENT EASEMENT AND MAINTENANCE AGREEMENT" IS TO BE GRANTED TO THE COUNTY COMMISSIONERS OF CARROLL COUNTY AS AN EASEMENT OF ACCESS TO THE COUNTY COMMISSIONERS OR AUTHORIZED REPRESENTATIVES BY A DEED INTENDED TO BE RECORDED SIMULTANEOUSLY.
   C. THIS PROJECT DOES NOT REQUIRE TIER II ANTIDEGREDATION REVIEW PER MDE TIER II EXEMPTION RESPONSE LETTER DATED MAY 3, 2024.

11. STREAM BUFFER: A VARIABLE WIDTH STREAM BUFFER HAS BEEN COMPUTED AND PLOTTED ALONG AN UNNAMED STREAM. SEE SHEET #2 FOR CALCULATIONS.

12. WATER AND SEWER SERVICES: THIS FACILITY DOES NOT REQUIRE PUBLIC (OR PRIVATE) WATER AND/OR SEWER SERVICE.

13. SIGNAGE: A 36"x36" (MAXIMUM) SIGN WILL BE ATTACHED TO THE PROPOSED CHAIN LINK FENCE TO IDENTIFY THE PROJECT.

14. TRASH/WASTE PICK-UP: THIS FACILITY GENERATES NO WASTE FOR PUBLIC PICK UP. ALL WASTE RESULTING FROM THE PROJECT'S CONSTRUCTION SHALL BE COLLECTED AND HAULED TO AN APPROVED WASTE HANDLING FACILITY.

16. ACCESS: THE PROPERTY HAS ACCESS TO CAPE HORN ROAD AND HAMPSTEAD MEXICO ROAD. THERE ARE TWO NEW PROPOSED ACCESS POINTS OFF OF CAPE HORN ROAD.

17. SITE LIGHTING: THIS FACILITY WILL NOT INCLUDE ON-SITE LIGHTING.

18. SEEDING: A WILD FLOWER SEED MIX WITH SELECTED GRASSES SHALL BE INSTALLED UNDER THE SOLAR PANELS. SEE PLANTING MIX ON SHEET 8.

19. DECOMMISSIONING: AT THE CONCLUSION OF THE PROJECT'S LIFESPAN, ALL WASTE FROM THE PROJECT'S DECOMMISSIONING SHALL BE HANDLED AND REMOVED IN ACCORDANCE WITH THE DECOMMISSIONING PLAN AND THE SITE SHALL REVERT BACK TO IT'S ORIGINAL CONDITION. DECOMMISSIONING PLAN MUST BE REVIEWED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.

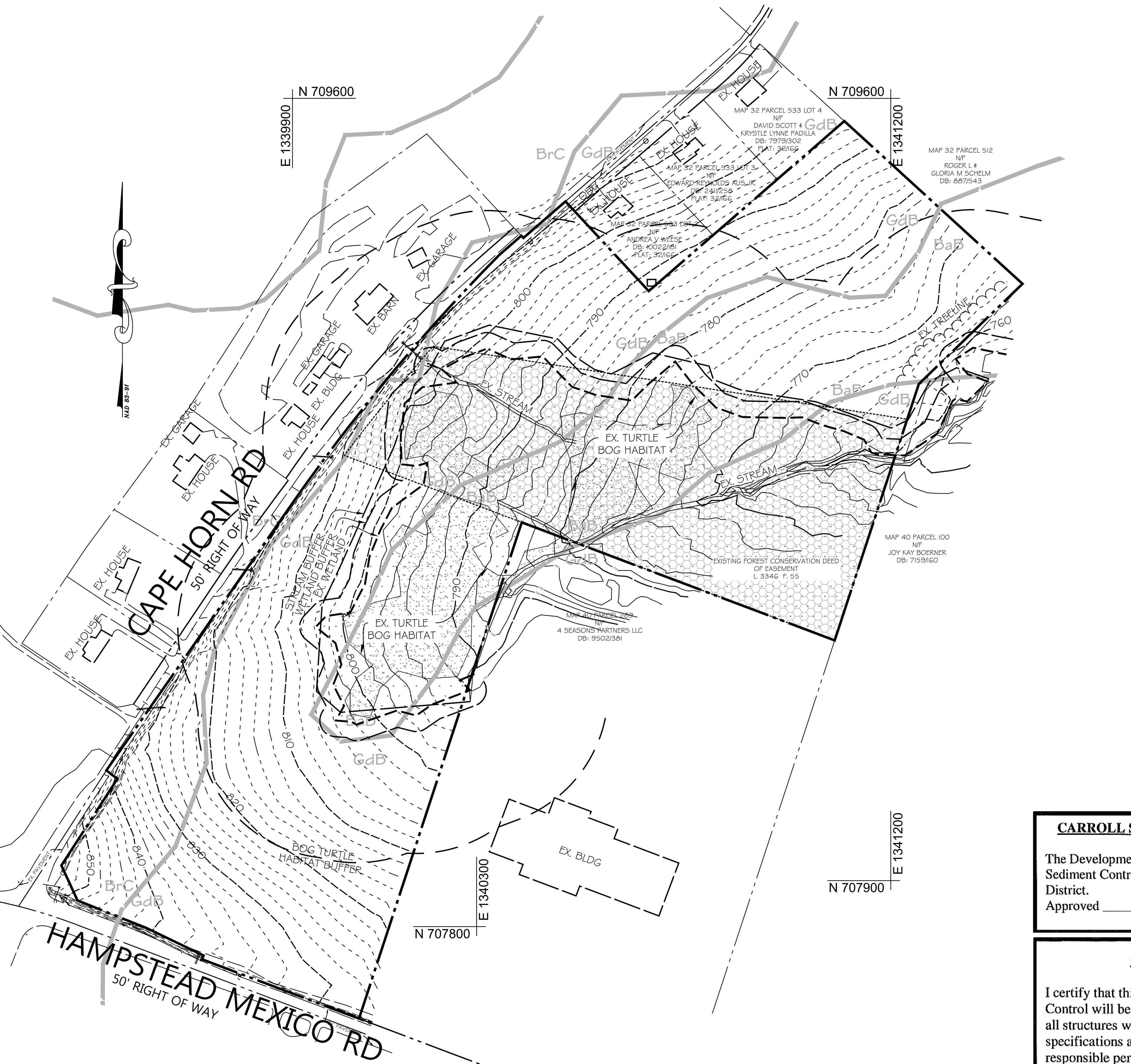
20. BUFFER PLANTINGS: ALL BUFFER PLANTINGS SHALL BE MAINTAINED BY THE OWNER/DEVELOPER FOR THE LIFE OF THE PROJECT.

21. GLARE MITIGATION: PRIOR TO INSTALLATION OF THE SOLAR PANELS, THE APPLICANT SHALL TAKE THE FOLLOWING ACTIONS TO PROVIDE AN OPAQUE BUFFER THAT MITIGATES GLARE IMPACTS UPON SURROUNDING PUBLIC ROADS AND PROPERTIES. THE APPLICANT MAY ADD AN OPAQUE ADDITION TO THE PROJECT'S PERIMETER FENCING (SUCH AS SLATS OR FABRIC) TO INITIALLY COMPLY WITH THIS REQUIREMENT. HOWEVER, IF NOT SUFFICIENT TO MITIGATE GLARE, THE APPLICANT SHALL CONSTRUCT A TEMPORARY, OPAQUE BUFFER THAT MAY INCLUDE ANY COMBINATION OF ADDITIONAL FENCING, LANDSCAPING AND BERMS THAT COMPLETELY SCREENS PLEASANT VALLEY ROAD FROM THE SUN'S REFLECTIONS OFF SOLAR ARRAYS FROM THE TIME THE PANELS ARE MOUNTED ON SUPPORTS. THE TEMPORARY BUFFER SHALL BE INSTALLED WITHIN THE SETBACK WHERE PERMANENT LANDSCAPING HAS BEEN PROPOSED OR REQUIRED, AND MUST BE MAINTAINED UNTIL THE PERMANENT LANDSCAPE BUFFER PROVIDES AN OPAQUE VISUAL BARRIER. THE TEMPORARY BUFFER SHALL BE IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL LAWS AND REGULATIONS.

23. SOIL COMPACTION MANAGEMENT - DURING CONSTRUCTION AND OPERATION, SOIL INSIDE THE PROJECT LIMITS OF CONSTRUCTION SHOULD BE EFFECTIVELY MANAGED FOR COMPACTION ACCORDING TO THE GUIDANCE PROVIDED IN THE NRCS SOIL QUALITY - AGRONOMY TECHNICAL NOTE NO. 17 "SOIL COMPACTION: DETECTION, PREVENTION AND ALLEVIATION." FOR AREAS THAT WILL RECEIVE FLOW AS PART OF A NON-ROOFTOP DISCONNECTION CREDIT, RIPPING (TO A MINIMUM DEPTH OF 12") AND COMPOST AMENDMENT SHALL BE PERFORMED WHERE COMPACTION HAS OCCURRED (E.G. GRADED AREAS, STAGING AREAS, OR HEAVILY TRAFFICKED AREAS) TO ASSURE PLANTING SUCCESS AND THE PROPER POST-CONSTRUCTION RUNOFF CHARACTERISTICS.

24. ANY CHANGES TO THIS PLAN WILL REQUIRE AN AMENDED SITE DEVELOPMENT PLAN TO BE APPROVED BY THE CARROLL COUNTY PLANNING AND ZONING COMMISSION.

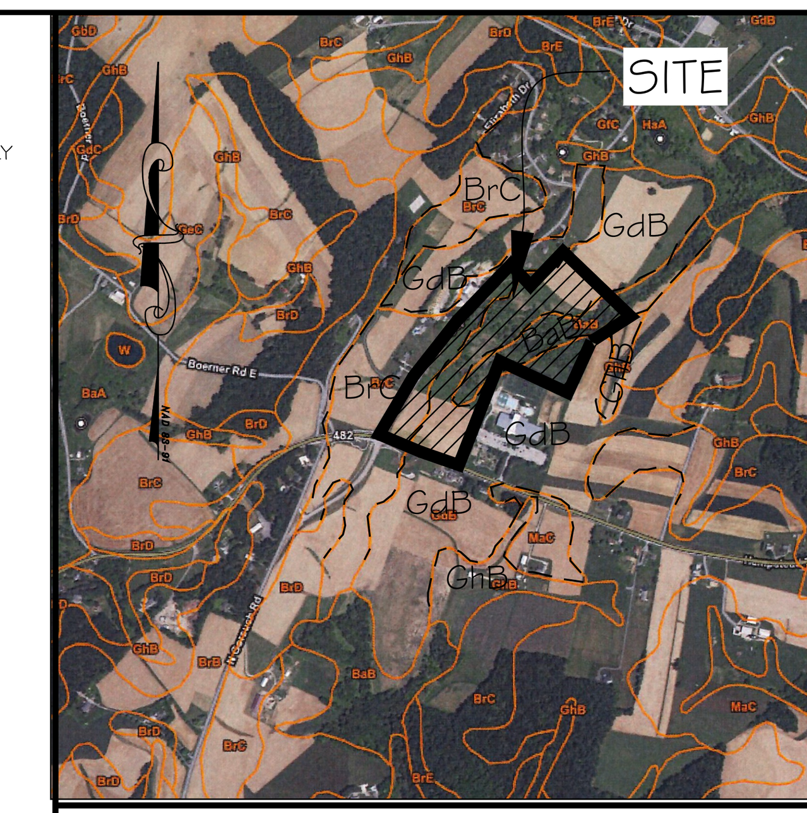
25. THIS SITE PLAN SHALL BECOME VOID EIGHTEEN MONTHS AFTER THE DATE OF APPROVAL IF NO BUILDING PERMIT OR ZONING CERTIFICATE HAS BEEN ISSUED FOR THIS PROJECT, UNLESS AN EXTENSION OF THIS TIME LIMIT IS ISSUED BY THE DIRECTOR OF THE DEPARTMENT OF PLANNING.



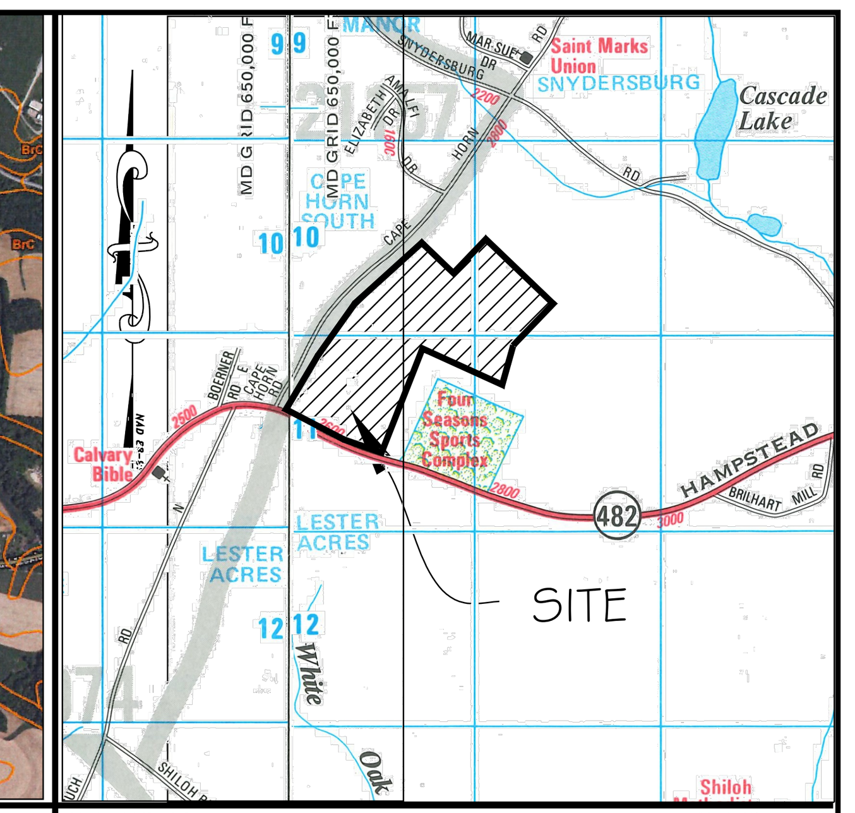
LOCATION AND ZONING MAP

SCALE: 1" = 200'

SOILS
BaB - BAILE SILT LOAM, 3% TO 8%,, NOT HIGHL ERODABLE
BrC - BRINKLOW CHANNERY LOAM, 8% TO 15% SLOPES, NOT HIGHLY ERODIBLE
BrD - BRINKLOW CHANNERY LOAM, 15% TO 25% SLOPES, HIGHLY ERODIBLE
GdB - GLENELG LOAM, 3% TO 8% SLOPES, NOT HIGHLY ERODIBLE
GhB - GLENVILLE SILT LOAM, 3% TO 8% SLOPES, NOT HIGHLY ERODIBLE



SOILS MAP
SCALE 1" = 2000'



TAX MAP 40 — VICINITY MAP — PARCEL 441
SCALE 1" = 2000'
TAX ID No. 08-041040

LEGEND

EXISTING	DESCRIPTION	PROPOSED
	PROPERTY LINE	
	RIGHT OF WAY LINE	
	EASEMENT LINE	
	100 YR FLOOD PLAIN	
EX. 15" SD	STORM DRAIN & MH	PROP. 15" SD
EX. 8" S	SEWER LINE & MH	PROP. 8" S
EX. C.O.	SEWER CLEANOUT	C.O.
EX. 8" W	WATER LINE & MH	PROP. 8" W
EX. WM	WATER METER	WM
EX. WV	WATER VALVE	WV
EX. F.H.	FIRE HYDRANT	F.H.
FDC	FIRE DEPT. CONNECTION	FDC
G	GAS LINE	G
OHE	OVERHEAD ELECT. LINE	OHE
UGE	UNDERGROUND ELECT. LINE	UGE
UGT	UNDERGROUND TELEPHONE	UGT
CATV	CABLE T.V.	CATV
	UTILITY POLE	
	CURB & GUTTER	
156	CONTOUR LINE	235
x156.50	SPOT ELEVATION	235.50
	TO BE REMOVED	(TBR)
	PROPOSED CONCRETE	
	PROPOSED GRAVEL ROAD	
	PROPOSED EMERGENCY ACCESS LANE	
	LANDSCAPE BUFFER PLANTINGS	
	WATER RESOURCE PROTECTION AND FLOODPLAIN AREA EASEMENT	
	8' AGRICULTURAL FENCE	
	SOIL BORING	
	LEVEL SPREADERS	
	BENCHMARK	BM

SHEET INDEX

CALL "MISS UTILITY" AT 1-800-257-7777 FOR UTILITY LOCATIONS AT LEAST 5 DAYS PRIOR TO BEGINNING CONSTRUCTION.

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. 42,429, EXPIRATION DATE: 06-06-2026

CARROLL SOIL CONSERVATION DISTRICT
The Development Plan is approved for Soil Erosion and Sediment Control by the Carroll 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

OWNER'S CERTIFICATION
I/We hereby certify that all proposed work shown on these construction drawing(s) has been reviewed by me/us and that I/we fully understand what is necessary to accomplish this work and that the work will be conducted in strict accordance with these plans. I/We also understand that any changes to these plans will require an amended plan to be reviewed and approved by the Carroll County Planning and Zoning Commission before any change in the work is made.
____________________ Name(s) Printed/Date
____________________ Signed/Date

CARROLL COUNTY PLANNING AND ZONING COMMISSION
BY ____________________ DATE ________

CARROLL COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING
BY ____________________ DATE ________

CARROLL COUNTY HEALTH DEPARTMENT
BY ____________________ DATE ________

DMW
DAFT McCUNE WALKER INC
920 N. EAST STREET FREDERICK, MD 21701
P: 301 696 9040 WWW.DMW.COM

COVER SHEET

CONCEPT SITE DEVELOPMENT PLANS
for
CAPE HORN ROAD SOLAR
CARROLL COUNTY MD

OWNER
ANDREW M. & LORI ANN BARNARD
13141 JESSE SMITH ROAD
MOUNT AIRY, MD 21771

DEVELOPER
2700 CAPE HORN ROAD, LLC
c/o PIVOT ENERGY - JOHN SHIELDS
6865 DEERPATH ROAD, SUITE 330
ELKRIDGE, MD 21075
410-709-4987

DATE	BY	REVISIONS

SEAL

INITIAL SUB:	02/20/2026
SCALE:	AS SHOWN
DRAWN:	JNS
DESIGNED:	JHV
CHECKED BY:	DSM
PROJECT NO.:	23713
DRAWING:	1 of 10

CARROLL COUNTY FILE NO. S-26-0010

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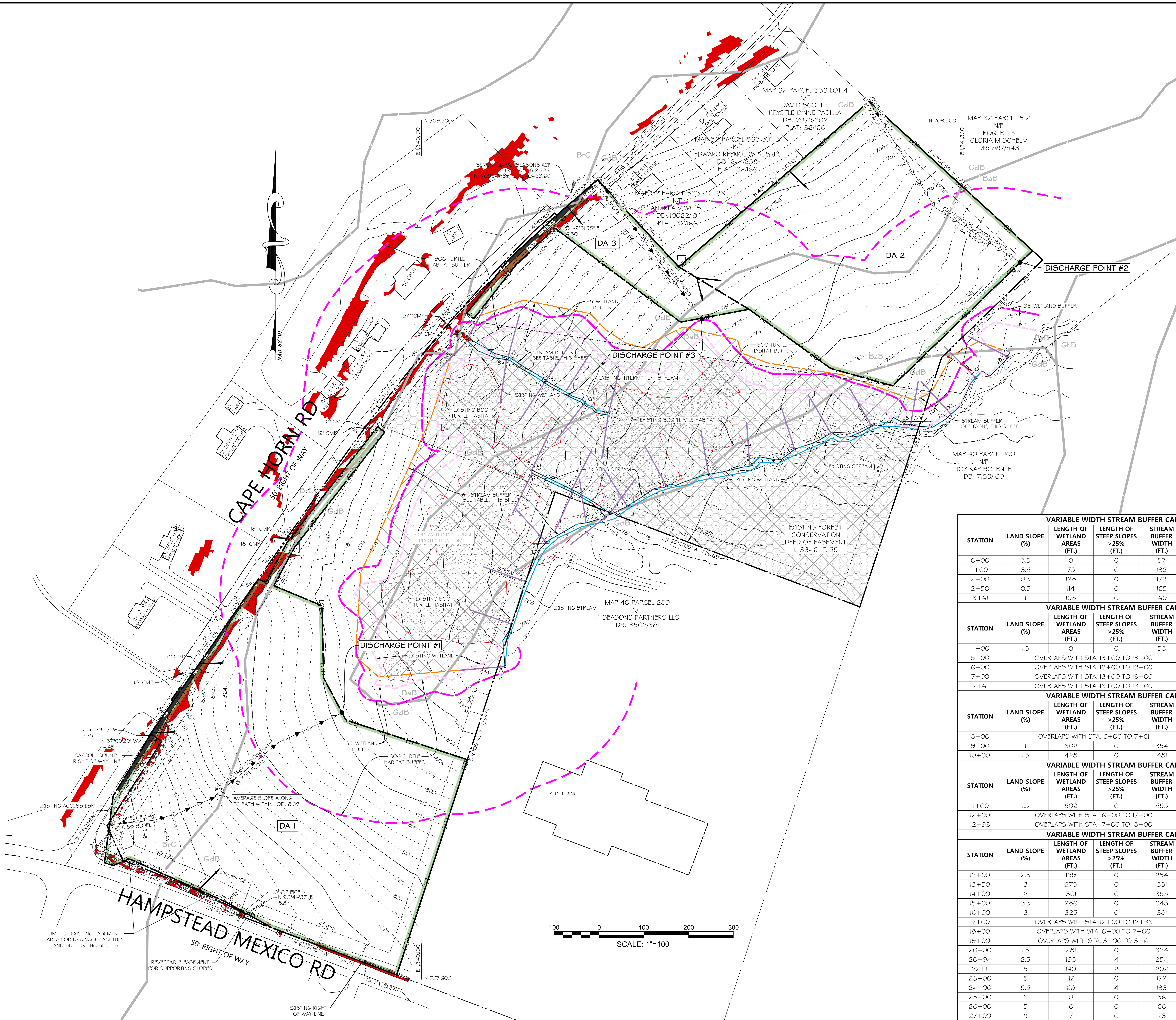

LEGEND:

LOD	LIMITS OF DISTURBANCE
	PROPERTY LINE
	FLOODPLAIN
	STREAM
	VARIABLE WIDTH STREAM BUFFER
	EX. TREELINE
	EX. DRAINAGE AREA
100' SHEETFLOW @ 3.00%	EX. & PROP. TC PATHS
	BOG TURTLE HABITAT & BUFFER
	WETLAND & BUFFER
🟩	EX. MEADOW
	EX. IMPERVIOUS AREA
	PROPOSED WATER RESOURCE PROTECTION EASEMENT
	EX. FOREST CONSERVATION DEED OF EASEMENT
🟥	STEEP SLOPES (>25%)

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VARIABLE WIDTH STREAM BUFFER CALCULATION

STATION	LAND SLOPE (%)	LENGTH OF WETLAND AREAS (FT.)	LENGTH OF STEEP SLOPES >25% (FT.)	STREAM BUFFER WIDTH (FT.)	NOTES
0+00	3.5	0	0	57	
1+00	3.5	75	0	132	
2+00	0.5	128	0	179	
2+50	0.5	114	0	165	
3+61	1	108	0	160	

VARIABLE WIDTH STREAM BUFFER CALCULATION

STATION	LAND SLOPE (%)	LENGTH OF WETLAND AREAS (FT.)	LENGTH OF STEEP SLOPES >25% (FT.)	STREAM BUFFER WIDTH (FT.)	NOTES
4+00	1.5	0	0	53	
5+00	OVERLAPS WITH STA. 13+00 TO 19+00				
6+00	OVERLAPS WITH STA. 13+00 TO 19+00				
7+00	OVERLAPS WITH STA. 13+00 TO 19+00				
7+61	OVERLAPS WITH STA. 13+00 TO 19+00				

VARIABLE WIDTH STREAM BUFFER CALCULATION

STATION	LAND SLOPE (%)	LENGTH OF WETLAND AREAS (FT.)	LENGTH OF STEEP SLOPES >25% (FT.)	STREAM BUFFER WIDTH (FT.)	NOTES
8+00	OVERLAPS WITH STA. 6+00 TO 7+61				
9+00	1	302	0	354	
10+00	1.5	428	0	481	

VARIABLE WIDTH STREAM BUFFER CALCULATION

STATION	LAND SLOPE (%)	LENGTH OF WETLAND AREAS (FT.)	LENGTH OF STEEP SLOPES >25% (FT.)	STREAM BUFFER WIDTH (FT.)	NOTES
11+00	1.5	502	0	555	
12+00	OVERLAPS WITH STA. 16+00 TO 17+00				
12+93	OVERLAPS WITH STA. 17+00 TO 18+00				

VARIABLE WIDTH STREAM BUFFER CALCULATION

STATION	LAND SLOPE (%)	LENGTH OF WETLAND AREAS (FT.)	LENGTH OF STEEP SLOPES >25% (FT.)	STREAM BUFFER WIDTH (FT.)	NOTES
13+00	2.5	199	0	254	
13+50	3	275	0	331	
14+00	2	301	0	355	
15+00	3.5	286	0	343	
16+00	3	325	0	381	
17+00	OVERLAPS WITH STA. 12+00 TO 12+93				
18+00	OVERLAPS WITH STA. 6+00 TO 7+00				
19+00	OVERLAPS WITH STA. 3+00 TO 3+61				
20+00	1.5	281	0	334	
20+94	2.5	195	4	254	
22+11	5	140	2	202	
23+00	5	112	0	172	
24+00	5.5	68	4	133	
25+00	3	0	0	56	
26+00	5	6	0	66	
27+00	8	7	0	73	
28+00	5	13	0	73	

DMW
DAFT McCUNE WALKER INC
920 N. EAST STREET FREDERICK, MD 21701
P: 301 696 9040 WWW.DMW.COM

EXISTING CONDITIONS MAP
SWM CONCEPT PLAN
CONCEPT SITE DEVELOPMENT PLANS
for
CAPE HORN ROAD SOLAR
CARROLL COUNTY MD

OWNER
ANDREW M. & LORI ANN BARNARD
13141 JESSE SMITH ROAD
MOUNT AIRY, MD 21771

DEVELOPER
2700 CAPE HORN ROAD, LLC
c/o PIVOT ENERGY - JOHN SHIELDS
6865 DEERPATH ROAD, SUITE 330
ELKRIDGE, MD 21075
410-709-4987

DATE	BY	REVISIONS

SEAL
STATE OF MARYLAND
DAPHNE MATTHEWS
42429
PROFESSIONAL ENGINEER
Daphne S. Matthews
02/20/2026

INITIAL SUB:	02/20/2026
SCALE:	1" = 100'
DRAWN:	JNS
DESIGNED:	JHV
CHECKED BY:	DSM
PROJECT NO.:	23713
DRAWING:	2 of 10

CARROLL COUNTY FILE NO. S-26-0010

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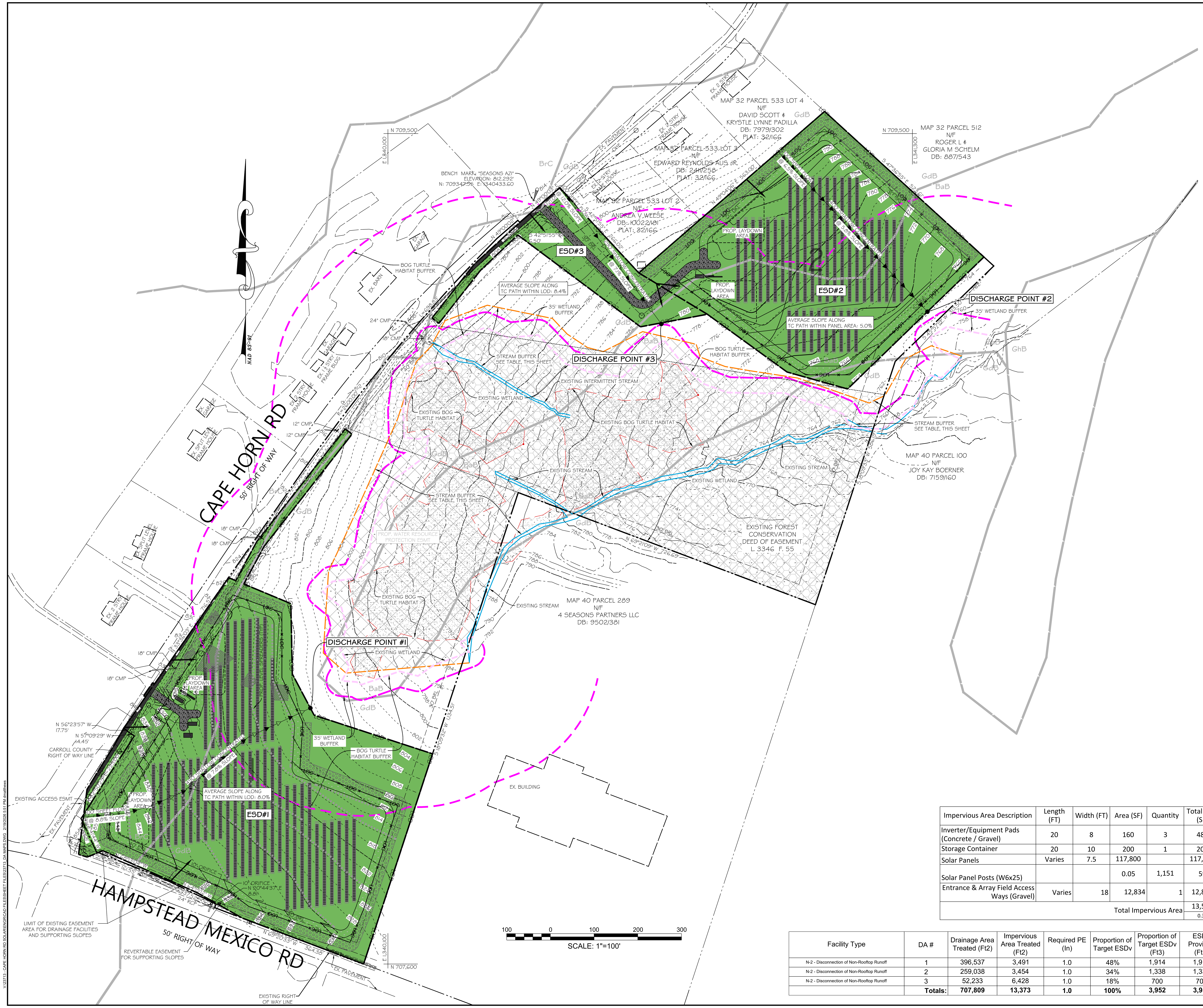

LEGEND:

- LOD — LIMITS OF DISTURBANCE
- PROPERTY LINE
- FLOODPLAIN
- STREAM
- VARIABLE WIDTH STREAM BUFFER
- 100' TOP OF STREAM BANK OFFSET
- EX. TREELINE
- PROP. DRAINAGE AREA
- 100' SHEETFLOW @ 3.00% — EX. & PROP. TC PATHS
- BOG TURTLE HABITAT & BUFFER
- WETLAND & BUFFER
- GRASS/MEADOW WITHIN LOD
- PROP. IMPERVIOUS AREA WITHIN LOD
- PROPOSED WATER RESOURCE PROTECTION EASEMENT
- EX. FOREST CONSERVATION DEED OF EASEMENT
- PROP. LANDSCAPE BUFFER
- TREE CLEARING AREA (±0.15 AC.)
- LEVEL SPREADER

CALL "MISS UTILITY" AT 1-800-257-7777 FOR UTILITY LOCATIONS AT LEAST 5 DAYS PRIOR TO BEGINNING CONSTRUCTION.

PROFESSIONAL CERTIFICATION

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Impervious Area Description	Length (FT)	Width (FT)	Area (SF)	Quantity	Total Area (SF)	Comments
Inverter/Equipment Pads (Concrete / Gravel)	20	8	160	3	480	Inverter Pad Site
Storage Container	20	10	200	1	200	Storage
Solar Panels	Varies	7.5	117,800		117,800	Not included in total
Solar Panel Posts (W6x25)			0.05	1,151	59	Conceptual / Approximate
Entrance & Array Field Access Ways (Gravel)	Varies	18	12,834	1	12,834	Excludes Grass Access Ways
				Total Impervious Area	13,573	SF
					0.31	Acres

Facility Type	DA #	Drainage Area Treated (Ft2)	Impervious Area Treated (Ft2)	Required PE (In)	Proportion of Target ESDv	Proportion of Target ESDv (Ft3)	ESDv Provided (Ft3)	Design PE (In)	Effective RCN
N-2 - Disconnection of Non-Rooftop Runoff	1	396,537	3,491	1.0	48%	1,914	1,914	1.0	60
N-2 - Disconnection of Non-Rooftop Runoff	2	259,038	3,454	1.0	34%	1,338	1,338	1.0	60
N-2 - Disconnection of Non-Rooftop Runoff	3	52,233	6,428	1.0	18%	700	700	1.0	60
	Totals:	**707,809**	**13,373**	**1.0**	**100%**	**3,952**	**3,952**	**1.0**	**60**

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ESD DRAINAGE AREA MAP
SWM CONCEPT PLAN
CONCEPT SITE DEVELOPMENT PLANS
for
CAPE HORN ROAD SOLAR
CARROLL COUNTY MD

OWNER
ANDREW M. & LORI ANN BARNARD
13141 JESSE SMITH ROAD
MOUNT AIRY, MD 21771

DEVELOPER
2700 CAPE HORN ROAD, LLC
c/o PIVOT ENERGY - JOHN SHIELDS
6865 DEERPATH ROAD, SUITE 330
ELKRIDGE, MD 21075
410-709-4987

DATE	BY	REVISIONS

SEAL
STATE OF MARYLAND DAPHNE MATTHEWS 42429 PROFESSIONAL ENGINEER
02/20/2026

INITIAL SUB:	02/20/2026
SCALE:	1" = 100'
DRAWN:	JNS
DESIGNED:	JHV
CHECKED BY:	DSM
PROJECT NO.:	23713
DRAWING:	3 of 10

CARROLL COUNTY FILE NO. S-26-0010

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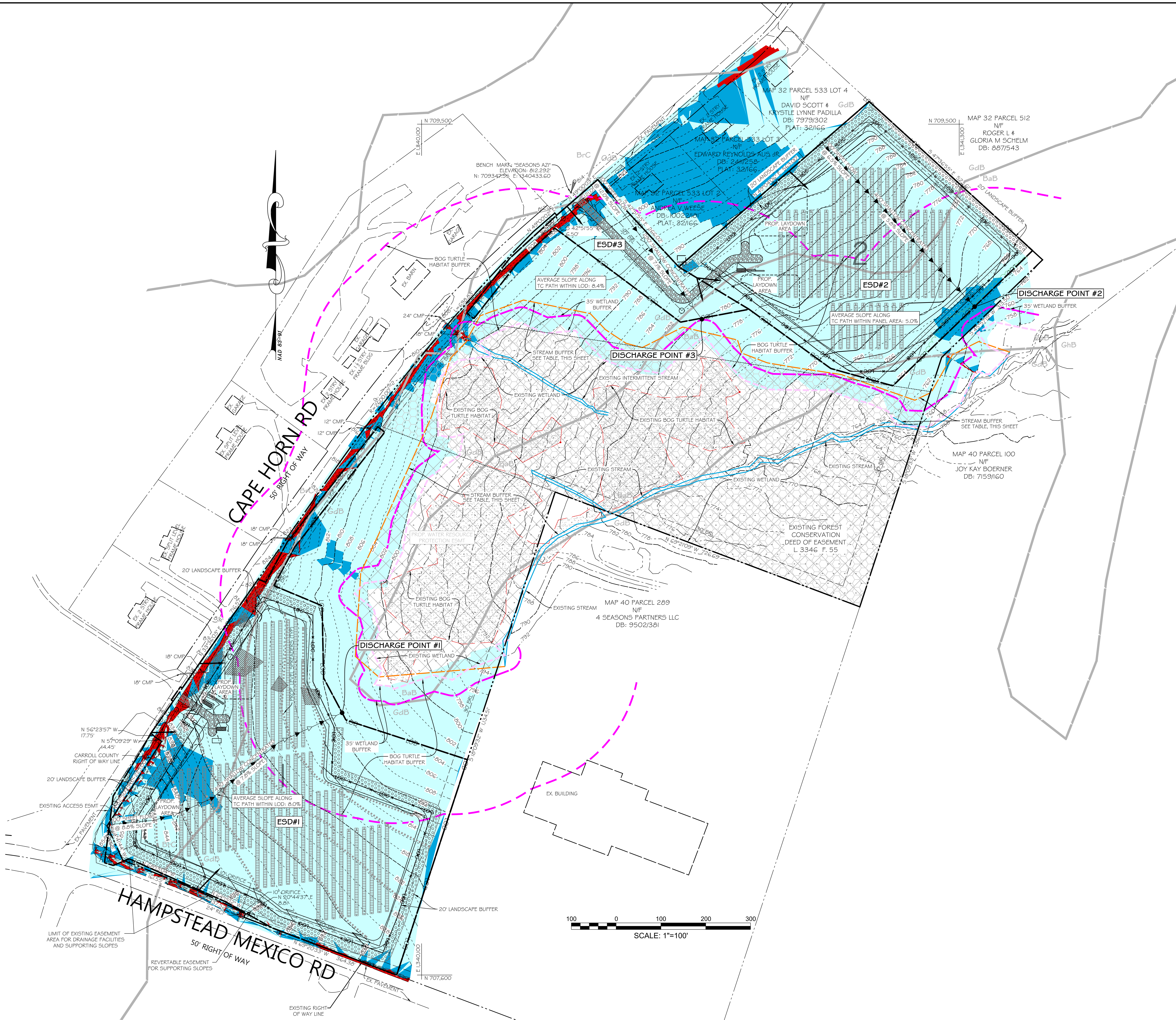

LEGEND:

LOD	LIMITS OF DISTURBANCE
	PROP. DRAINAGE AREA
100' SHEETFLOW @ 3.00%	EX. & PROP. TC PATHS
	5%-10% SLOPES
	10%-25% SLOPES
	>25% SLOPES
	PROPOSED WATER RESOURCE PROTECTION EASEMENT
	EX. FOREST CONSERVATION DEED OF EASEMENT
	TREE CLEARING AREA (±0.15 AC.)
	LEVEL SPREADER

CALL "MISS UTILITY" AT 1-800-257-7777 FOR UTILITY LOCATIONS AT LEAST 5 DAYS PRIOR TO BEGINNING CONSTRUCTION.

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. 42,429, EXPIRATION DATE: 06-06-2026

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DA TC FLOW PATH MAP
SWM CONCEPT PLAN
CONCEPT SITE DEVELOPMENT PLANS
for
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CARROLL COUNTY MD

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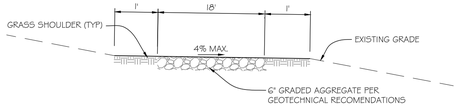

GRAVEL ACCESS ROAD
TYPICAL SECTION

SIGN DETAILS:

1. A SIGN, NOT TO EXCEED FOUR SQUARE FEET, SHALL BE CLEARLY VISABLE AND POSTED AT EACH ENTRANCE TO THE SOLAR ENERGY GENERATING SYSTEM SITE TO IDENTIFY THE PROPERTY OWNER, THE SOLAR ENERGY GENERATING SYSTEM OPERATOR, AND THE 24-HOUR EMERGENCY CONTACT PHONE NUMBER. INFORMATION ON THE SIGN SHALL BE KEPT CURRENT.
2. PLACARDS SHALL BE POSTED TO IDENTIFY THE LOCATION OF THE AC POWER SUPPLY EMERGENCY DISCONNECTS. ALL OTHER SIGNAGE REQUIRED BY THE ELECTRICAL, BUILDING, OR FIRE CODE SHALL BE POSTED AS REQUIRED.

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FOR UTILITY LOCATIONS AT LEAST 5 DAYS
PRIOR TO BEGINNING CONSTRUCTION.

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SITE, GRADING, LANDSCAPE & SEC PLAN
CONCEPT SITE DEVELOPMENT PLANS
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DRAWING:	5 of 10

CARROLL COUNTY FILE NO. S-26-0010

MATCH LINE SEE SHEET 6

SCALE: 1" = 50'

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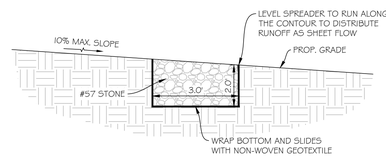

LEVEL SPREADER DETAIL

N.T.S.

CONSTRUCTION SPECIFICATIONS FOR LEVEL SPREADER

1. CONSTRUCT THE LEVEL SPREADER OF STONE AS SHOWN.
2. CONSTRUCT THE LIP OF THE LEVEL SPREADER IN UNDISTURBED SOIL (NOT FILL) AT A ZERO PERCENT GRADE ON THE CONTOUR.
3. OUTFALL THE LEVEL SPREADER TO AN EXISTING UNDISTURBED STABILIZED AREA.
4. THE MINIMUM WIDTH WILL BE 3 FEET AND THE DEPTH WILL BE 2 FOOT MINIMUM MEASURED FROM THE LIP OF THE SPREADER.
5. THE RUNOFF TO THE SPREADER MUST BE SEDIMENT FREE.
6. THE RUNOFF FROM THE SPREADER CAN NOT CONCENTRATE AFTER RELEASE UNTIL IT REACHES AN OUTLET DESIGNED FOR CONCENTRATED FLOW.
7. AS-BUILTS OF LEVEL SPREADERS SHALL BE REQUIRED BY CARROLL COUNTY PRIOR TO THE RELEASE OF SWM BONDS.

CALL "MISS UTILITY" AT 1-800-257-7777 FOR UTILITY LOCATIONS AT LEAST 5 DAYS PRIOR TO BEGINNING CONSTRUCTION.

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CARROLL COUNTY FILE NO. 5-26-0010

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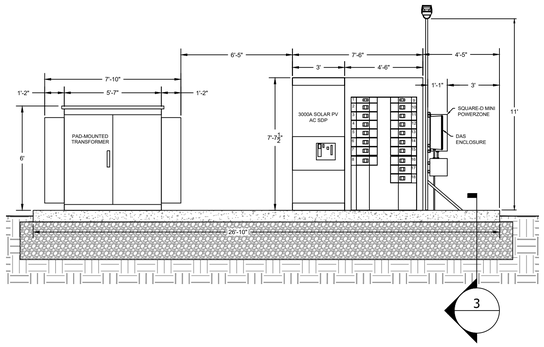
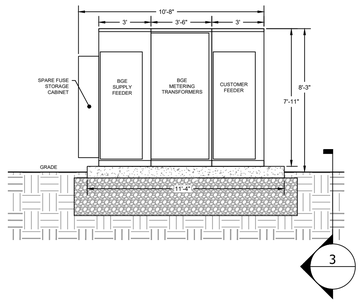


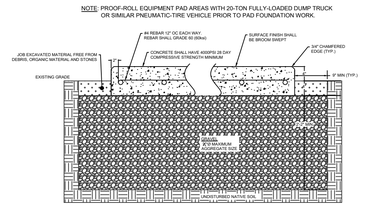
1 PV SWITCHBOARD & TRANSFORMER EQUIPMENT PAD ELEVATION

SCALE: 1/2"=1'-0"



2 MV SWITCHGEAR & METERING EQUIPMENT PAD ELEVATION

SCALE: 1/2"=1'-0"

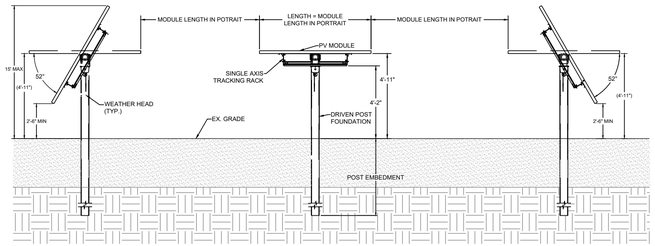


3 CONCRETE ELECTRICAL PAD SECTION

SCALE: 1-1/2"=1'-0"

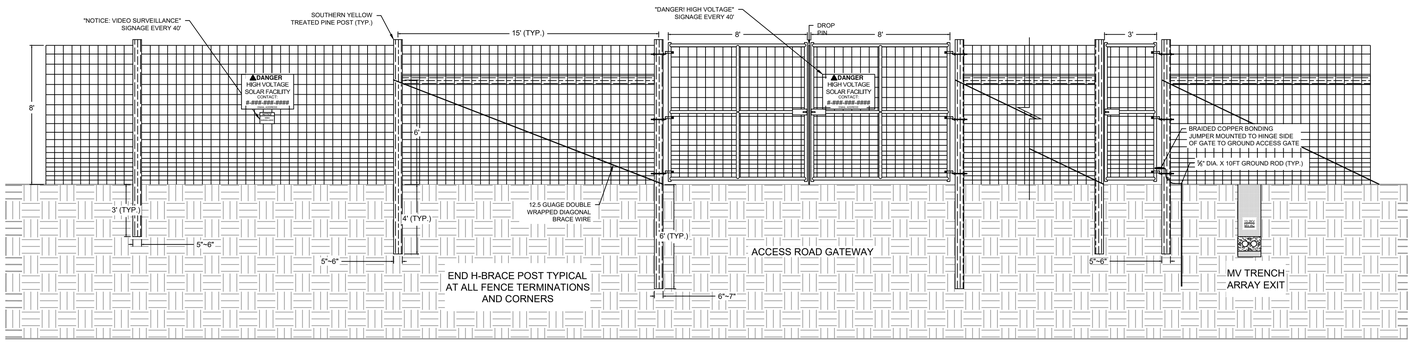
NOTES:

1. FUGITIVE DUST CONTROL - DURING CONSTRUCTION ACTIVITIES, THE PROJECT OWNER SHALL TAKE "REASONABLE PRECAUTIONS," AS DESCRIBED IN COMAR 26.11.06.03D, TO REDUCE THE POTENTIAL GENERATION OF PARTICULATE MATTER FROM UNPAVED ROADS.
2. SPILL CONTROL - THE PROJECT OWNER SHALL FOLLOW GUIDELINES ESTABLISHED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) SPILL PREVENTION, CONTROL AND COUNTERMEASURE AND FACILITY RESPONSE PLAN PROGRAMS TO PREVENT AND CONTROL SPILLS. IF ANY POTENTIAL SPILL SOURCES, SUCH AS TRANSFORMERS CONTAINING OIL ARE INSTALLED, THE PROJECT OWNER SHALL PROTECT ALL ADJACENT PROPERTIES, DITCHES, AND WETLANDS AND ENVIRONMENTAL MEDIA FROM SPILLS OR LEAKS OF THE TRANSFORMER FLUIDS OR OTHER BIOLOGICALLY DETRIMENTAL SUBSTANCES BY UTILIZING APPROPRIATE CONTAINMENT MECHANISMS AND STRUCTURES.
3. THE PROJECT OWNER SHALL PROVIDE A MINIMUM 10-FOOT VEGETATED SETBACK, IN WHICH NO SOLAR PANELS WILL BE PLACED FROM THE TOP OF THE BANK OF ALL NON-JURISDICTIONAL DITCHES AND DRAINAGE SWALES.
4. ROAD DAMAGE - PRIOR TO CONSTRUCTION, THE PROJECT OWNER SHALL PHOTO-DOCUMENT ROAD, SHOULDER, AND RIGHT-OF-WAY (ROW) CONDITIONS ON ROADS WITH DIRECT ACCESS TO THE PROJECT SITE AND MONITOR ROAD CONDITIONS WEEKLY DURING THE CONSTRUCTION PERIOD OR WHEN IT IS NOTIFIED OF DAMAGE OR DEBRIS CAUSED BY CONSTRUCTION VEHICLES. THE PROJECT OWNER SHALL COMPLY WITH SHA AND CARROLL COUNTY BONDING OR SIMILAR REQUIREMENTS IF NEEDED. IF THE PROJECT OWNER CAUSES DAMAGE OR DEPOSITS DEBRIS TO ANY ROADWAY UNDER THE AUTHORITY OF THE MDOT SHA, IT SHALL IMMEDIATELY CONTACT (VIA ELECTRONIC OR U.S. MAIL) MDOT SHA DISTRICT 7 MAINTENANCE TO REPORT ANY DAMAGE TO AN MDOT SHA ROADWAY AND AGREE TO A TIMELINE FOR CORRECTING THE DAMAGES. DAMAGE TO CARROLL COUNTY ROADS SHALL BE REPORTED (VIA ELECTRONIC OR U.S. MAIL) TO THE CARROLL COUNTY DEPARTMENT OF PUBLIC WORKS, AND AN AGREEMENT SHALL BE MADE ON A TIMELINE FOR CORRECTING THE DAMAGES. REPAIRS TO ROADS, SHOULDERS, AND ROWS SHALL CONFORM TO MDOT SHA SPECIFICATIONS OR CARROLL COUNTY CONSTRUCTION STANDARDS, AS ADOPTED BY THE DEPARTMENT OF PUBLIC WORKS, WHICHEVER IS APPLICABLE.
5. COMPLAINT RESOLUTION - PROJECT OWNER SHALL DEVELOP A PROCESS TO EVALUATE, DOCUMENT, AND ADDRESS WRITTEN COMPLAINTS RELATED TO REFLECTIVE GLARE, VISIBILITY OF STRUCTURES WITHIN THE LOC, FUGITIVE DUST, ROAD DAMAGE, OR NOISE. THIS PROCESS SHALL BE IN PLACE THROUGH DECOMMISSIONING OF THE PROJECT. THE PROJECT SHALL DISPLAY SIGNAGE THAT INCLUDES THE PROJECT NAME AND THE REPRESENTATIVE'S CONTACT INFORMATION (SEE POINT OF CONTRACT CONDITION BELOW). THE SIGNAGE SHOULD BE DISPLAYED AT, BUT NOT LIMITED TO, THE ENTRANCE TO THE PROJECT SITE.
6. SOLAR PV FIRE SAFETY - THE PROJECT OWNER SHALL DESIGN, INSTALL, AND MAINTAIN THE PROJECT TO MEET ALL APPLICABLE MINIMUM STANDARDS SET FORTH IN THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70: NATIONAL ELECTRICAL CODE AND ALL APPLICABLE MINIMUM STANDARDS APPROPRIATE FOR GROUND-MOUNTED SOLAR FACILITIES SET FORTH IN NFPA 1: FIRE CODE, OR THE MOST RECENT VERSION OF THE NFPA AS ADOPTED BY MARYLAND.



4 GENERAL RACKING DETAILS

Scale: NTS



5 AGRICULTURAL FENCING DETAILS

Scale: NTS

FENCE NOTE:

ADDITIONAL SCREENING SHALL BE PROVIDED BY ATTACHING A BLACK OR GREEN VINYL MESH TO THE FENCE AND WILL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.

CALL "MISS UTILITY" AT 1-800-257-7777 FOR UTILITY LOCATIONS AT LEAST 5 DAYS PRIOR TO BEGINNING CONSTRUCTION.

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DAFT McCUNE WALKER INC.
920 N. EAST STREET FREDERICK, MD 21701
P: 301 696 9040 WWW.DMW.COM

NOTES & DETAILS

CONCEPT SITE DEVELOPMENT PLANS

for

CAPE HORN ROAD SOLAR

CARROLL COUNTY MD

OWNER
ANDREW M. & LORI ANN BARNARD
13141 JESSE SMITH ROAD
MOUNT AIRY, MD 21771

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DATE	BY	REVISIONS

SEAL

INITIAL SUB:	02/20/2026
SCALE:	AS SHOWN
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DRAWING:	7 of 10

CARROLL COUNTY FILE NO. 5-26-0010

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Cape Horn Road Solar Project
Carroll County, Maryland
Planned Grounds Management

Specific plantings, planting design, and associated construction details are included in the Final Plan and construction document submittals as approved by Carroll County and the Carroll County Soil Conservation District, and the Maryland Public Service Commission's CPCN.

Site Preparation

To prepare for civil construction activities, Cape Horn Road Solar Project's operations and maintenance contractor will mow the existing vegetative cover at the site. This effort will contain the weeds on site and minimize site preparation issues upon start of construction.

Conduct soil testing to determine the necessary soil amendments. The application rates of fertilizer and lime should be according to the recommendations of the onsite soil tests.

Seed Mixes

Planned Groundcover

Ernst Conservation Seeds offers two different seed mixes that meet the needs of the project site. The Native/Naturalized Solar Farm Seed Mix — ERNMX-186-1 and Solar Farm Seed Mix — ERNMX-186. Both mixes contain low maintenance grasses that grow less than two feet tall with the exception of the Chewings Fescue and the Autumn Bentgrass that can reach three feet in height. In addition to the mixture of grass seed, Cape Horn Road Solar Project is proposing to plant wild flowers that will promote the health of honey bees and other pollinators as recommended by staff at Department of Natural Resources (DNR). The purpose of this project design feature would be to improve the quality and quantity of overall acreage for pollinators. Solar energy generation facilities are ideal opportunities to increase healthy habitats for pollinators. The ratio of wildflower seeds to grass seed mix will be as recommended by the Carroll County Soil Conservation District Office.

Planted Landscape Buffer-Pollinator Mix

Ernst Conservation Seeds offers a Mesic to Dry Native Pollinator Seed Mix —ERNMX 105 that will provide a variety of native wildflowers and grasses. Seeding should be at a rate of 20 lb. per acre. Multiple seeding times may be necessary to establish acceptable levels of coverage. Seeding should be done as soon as possible after construction in order to properly stabilize the site and prevent weed infestation.

Planting

Planted Groundcover and Buffer Pollinator Mix

Planting of groundcover and pollinator mix can be accomplished by hydroseed, broadcast or drilling. Fall seeding is preferred and will require less watering. Seeding times are March 1 to May 15 or August 15 to October 15. Seeding should be at a rate of 6 lb. per 1,000 square feet. For spring planting, disc harrow the site every two to four weeks for a one to two-month period prior to planting to control the growth of invasive plants. Immediately after seeding, uniformly mulch entire area with un-weathered small grain straw at a rate of 92 lbs. per 1,000 sq. ft. Mulch to be anchored with mulch anchoring tool on the contour as necessary. Areas disturbed during construction, as well as all areas below solar panels, shall be seeded and/or overseeded with the selected seed mix. Multiple seeding times may be necessary to establish acceptable levels of coverage. Seeding should be done as soon as possible after construction to establish a ground cover since weeds will try to grow.

Planted Landscape Buffer

Plant material should be installed within the following dates: March 1 to June 1 or September 1 to November 1, or as approved by the Landscape Architect.

Watering

Contractor shall water newly planted seed daily for the first two to three weeks, or until the root system has established and the plantings are stable. Grass will require one inch of water per week for the first growing season until established or as necessary.

Maintenance Schedule

Planned Groundcover

The site shall be mowed in early spring before the onset of new growth. Grass shall be mowed at least twice a year or as necessary to protect the integrity of the electric facility. Recommended mowing times are in the early spring and also in mid to late June. Grass shall not be mowed to a height of less than 10 inches. All vegetation on site shall be managed to optimize the solar system. During mowing times, maintenance personnel will provide owner with field observations so that further maintenance can be scheduled as necessary. The owner may utilize sheep grazing as an alternative to mowing to manage the vegetation growth.

Planted Landscape Buffer-Pollinator Mix

The buffer area will serve as a screen for the solar panels and also provide a natural habitat for wildlife. The owner shall maintain the buffer per the satisfaction of the Zoning Official. The pollinator mix area shall be mowed in early spring before the onset of new growth. Grass shall not be mowed to a height of less than 10 inches. All vegetation on site shall be managed to optimize the solar system.

Herbicides and Pesticides

Herbicide and pesticide application should be avoided unless necessary and will only be applied to control invasive species in accordance with Carroll County Regulations and State Law. If herbicides and pesticides are applied, it is assumed that herbicides and pesticides will be EPA-registered at the time of application and shall be applied to control invasive plant species, and insect pests and pests in accordance with applicable law. Examples of recommended products that may be used, but not limited to, post-emergent: 2, 4-D, MCPP, Dicamba and Triclopyr; Preemergent: Benefin + trifluralin, dithiopyr, Prodiamine, Siduron or equivalent.

Acceptance and Warranty

An inspection of work completed shall be conducted by the Landscape Architect and Owner's Representative for the purpose of initial acceptance. A warranty, for a period of one year, shall begin after the landscape inspection and the initial acceptance. At the end of one year, buffer trees and shrubs which are dead or dying shall be replaced at the Contractor's expense as originally specified. The planned ground cover and buffer pollinator mix shall be replaced in areas where more than 25 percent of material is dead. After establishment of the buffer, trees and shrubs shall be inspected by ground maintenance personnel at the end of the summer so that compliance with the requirements as set forth by Carroll County is maintained.

David A. Lingg
Registered Landscape Architect
Maryland Registration #2040

July 15, 2025
Date

SUPRESSION AND CONTROL OF INVASIVE, EXOTIC SPECIES AND VEGETATION

1. In General: Suppression efforts are aimed at the removal of invasive, exotic species ("target species"), which displace or prevent the establishment of native forests. Primarily including but not exclusive to: Tree of Heaven (Alanthus Altissima), Multiflora Rose (Rose Multiflora), and Japanese Honeysuckle Vine (Loncera Japonica).

2. Minimum Requirements: A minimum of two applications or treatments shall be made during each one-year period.

3. Areas Affected: Suppression and control efforts within the site shall take place in all planted areas. Suppression and control efforts shall also take place in any existing forest areas. As noted, all of the existing forest is included in the suppression area because of the presence of target species throughout the site. Also, new planting areas may also be subject to suppression efforts if there is a presence of target species within the planting areas.

4. Timing of Operations: Suppression efforts may begin at any time. Initial removal and treatment of the target species must occur prior to planting disturbed areas.

5. Flagging Required: Target vegetation within the suppression area (s) shall be clearly flagged with surveyor's ribbon or otherwise identified in a clear and recognized manner. Flagging or otherwise identifying target vegetation shall be done so as to prevent removal of desirable (native) species along with the target species.

6. Methods of Removal: Suppression and control of the target species can be by mechanical or chemical methods or a combination of both. Mechanical controls include mowing or chopping at or near the ground level and removal of the plant by digging, pulling, or bulldozing. Mowing or chopping will likely result in re-growth from the stump or root sprouts. Therefore, this method requires also treating the remaining stump and/or root sprouts. The removal of the remaining roots by some means of excavation will disturb the soil. This may require sediment control measures, which is the responsibility of the contractor. Holes created by the removal of roots are to be filled with topsoil.

7. Stabilizing Bare Ground: All bare ground areas resulting from mechanical control methods are to be immediately stabilized. The use of heavy equipment within non-wetland floodplain areas is prohibited, unless the soil is dry enough for the equipment to be supported without excessive damage to the soil or desirable ground cover plants. Heavy equipment is not allowed in wetlands or streams.

8. Use of Chemicals: Chemical control is by herbicide application to the target species. The use of herbicides shall be in strict accordance with state and Federal regulations and include but are not limited to:
- The use and application of all herbicides shall be in strict accordance with the label on the herbicide's container and/or the instructions accompanying the herbicide.
- Herbicides used in or near wetlands or streams shall be clearly labeled as to indicate that the herbicide is for use near bodies of water.
- All herbicide applications shall be conducted during the appropriate time of year and under environmentally favorable conditions with consideration to weather elements (i.e. wind and temperature) and in accordance with the label.
- Individuals who are qualified and licensed pesticide applicators will conduct all herbicide applications.
- Herbicides are to be applied in a manner that only suppresses the target vegetation and does not suppress or destroy surrounding desirable plants.

9. Protecting Living Root Mats: Root mats of plants treated with herbicides are to remain in place to stabilize the soil.

10. Debris Removal: Brush, root mats, and debris resulting from the use of mechanical controls shall be removed from the site and properly disposed.

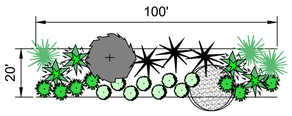
11. Specific Recommendations: The contractor and pesticide/herbicide applicator shall choose the appropriate control measures to match both local conditions and available skilled labor so at to minimize impacts to the environment. The following treatment methods are advised:
- Japanese Honeysuckle: manually cut or pull vines or treat re-sprouts with herbicide (post-emergent).
- Multiflora Rose: repeated mowing or cutting or treat re-sprouts with herbicide (post-emergent).
- Tree of Heaven: initial cutting of trees followed by frequent cutting and mowing of sprouts. Herbicide treatments include post-emerge foliar spray, cut surface treatments and basal bark application.

14. Follow-up Treatments: Following the initial treatment, the suppressed areas shall be monitored/inspected and re-growth/re-infestation shall be treated at least three additional times during the three-year maintenance period.

LANDSCAPE GENERAL NOTES

1. TOTAL NUMBER OF PLANTS SHALL BE VERIFIED ON THE LANDSCAPE PLAN BY THE LANDSCAPE CONTRACTOR. IF THE TOTAL DIFFERS FROM THE PLANT SCHEDULE LOCATED WITHIN THIS PLAN SET, THE PLAN SHALL GOVERN.
2. IF A PLANT IS FOUND UNSUITABLE OR UNAVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE DESIGNER FOR APPROVAL OF AN ACCEPTABLE SUBSTITUTE. THE GOVERNING JURISDICTION MAY ALSO NEED TO APPROVE THE PROPOSED SUBSTITUTE.
3. ALL PLANT MATERIAL SHALL CONFORM TO THE QUALITY SPECIFICATIONS DESCRIBED IN THE CURRENT ISSUE OF THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
4. ALL PLANTING SPECIFICATIONS AND PROCEDURES SHALL FOLLOW THE STANDARDS SET FORTH IN THE LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS.
5. EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE RECORDS. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND ELEVATIONS TO THEIR OWN SATISFACTION PRIOR TO CONSTRUCTION. ANY UTILITY (WHETHER SHOWN ON THESE PLANS OR NOT) DAMAGED DUE TO CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY. CONTRACTOR SHALL AT COMMENCEMENT OF CONSTRUCTION, UNCOVER ALL PROPOSED CONNECTION POINTS TO VERIFY LOCATION OF EXISTING UTILITIES.
6. IF SOIL AT PLANTING SITES IS WET OR COMPACTED, ALL CONTAINER AND BALLED NURSERY STOCK SHOULD BE PLANTED SUCH THAT THE TOP ONE-THIRD OF THE ROOT BALL IS ABOVE EXISTING GRADE.
7. MOW OPEN FIELDS OR FIELDS WITH A SLIGHT AMOUNT OF BRUSH ENCROACHMENT BEFORE PLANTING. HERBICIDE APPLICATION MAY BE REQUIRED TO CONTROL NOXIOUS OR WELL ESTABLISHED PROBLEM VEGETATION. ANY HERBICIDE APPLICATIONS NECESSARY ARE TO BE APPLIED IN THE GROWING SEASON PRIOR TO PLANTING. HERBICIDE APPLICATION MAY BE DONE IN 3' STRIPS WHERE ROWS OF TREES ARE TO BE PLANTED OR 5' DIAMETER SPOTS WHERE INDIVIDUAL TREES ARE TO BE PLANTED.
8. IF PLANTING SITE HAS BEEN USED FOR AGRICULTURAL PURPOSES OR CROPS WITHIN ONE YEAR OF PLANTING, CONTRACTOR MUST VERIFY WITH FARMER THAT ATRIZINE HAS NOT BEEN APPLIED FOR HERBICIDE CONTROL. IF ATRIZINE HAS BEEN USED, PLANTING MUST NOT BE DONE FOR A MINIMUM OF ONE YEAR AFTER LAST APPLICATION. IN GENERAL, STOP ALL AGRICULTURAL HERBICIDE APPLICATIONS ONE YEAR PRIOR TO PLANTING.
9. REMOVE UPPER 1/3 OF BURLAP, ALL WIRE AND NON-BIODEGRADABLE MATERIALS BEFORE BACKFILLING ANY PLANT MATERIAL. ALL GUY WIRES AND STAKES ARE TO BE REMOVED ONE YEAR AFTER PLANT MATERIAL INSTALLATION.
10. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE DURING THE CONTRACT PERIOD, AND UP TO THE TIME OF INSPECTION AND ACCEPTANCE BY THE APPROVING JURISDICTION AND THE OWNER, FOR KEEPING ALL PLANTING AND WORK INCIDENTAL THERETO IN GOOD CONDITION BY REPLANTING, PLANT REPLACEMENT, WATERING, WEEDING, CULTIVATING, PRUNING OR SPRAYING, RESTAKING AND CLEANING UP, AND BY PERFORMING ALL OTHER NECESSARY OPERATIONS OF CARE FOR PROMOTION OF GOOD PLANT GROWTH AND HEALTH SO THAT ALL WORK IS IN SATISFACTORY CONDITION AT THE TIME OF INSPECTION AND ACCEPTANCE BY THE GOVERNING JURISDICTION AND THE OWNER, AT NO ADDITIONAL COST TO THE OWNER.
11. SHOULD ANY EXISTING TREES AND/OR PLANTS BE PROPOSED TO BE SAVED ON THE SITE, THOSE TREES/PLANTS SHOULD BE PROTECTED DURING CONSTRUCTION. CONTACT THE COUNTY ARBORIST FOR RECOMMENDATIONS. MEASURES FOR PROTECTION SHOULD INCLUDE, BUT ARE NOT LIMITED TO: PROVIDING STOUT FENCING AROUND TREES AND AREAS TO BE SAVED. FENCING SHOULD REMAIN IN PLACE THROUGHOUT ALL PHASES OF CONSTRUCTION; RESTRICTING USE OF MACHINERY UNDER THE DRIP LINE TO AVOID MECHANICAL INJURY OR SOIL COMPACTION. IF CONSTRUCTION TRAFFIC IS NECESSARY WITHIN THIS AREA, TEMPORARY MULCH SHOULD BE USED TO MINIMIZE SOIL COMPACTION; PROHIBITING STORAGE OF MATERIALS IN THE PROTECTION AREA; EXCAVATION AROUND TREE ROOTS SHOULD BE COMPLETED BY HAND; ROOTS WHICH NEED TO BE REMOVED DURING CONSTRUCTION SHOULD BE CUT CLEANLY AND NOT RIPPED OUT WITH HEAVY MACHINERY; LARGE ROOTS SHOULD BE LEFT TO BRIDGE TRENCHES; TUNNEL BENEATH ROOT SYSTEMS FOR UTILITIES RATHER THAN TRENCHING WHENEVER POSSIBLE; BACKFILL EXPOSED ROOTS AS SOON AS POSSIBLE; CHANGES IN GRADE LEVEL WITHIN THE DRIP LINE OF EXISTING VEGETATION SHOULD BE AVOIDED IF POSSIBLE; USE RETAINING WALLS, TERRACES, OR OTHER MEASURES TO AVOID ANY EXCAVATING WITHIN THIS AREA WHEN POSSIBLE; WHEN FILLING THIS AREA, PROVIDE AERATION LAYERS OF 1' DEEP MINIMUM 2-3" AGGREGATE BEDS WITH TREE WELLS; PROVIDE ADEQUATE DRAINAGE TO OR AWAY FROM ROOTS; AND AVOID DAMAGE TO PRESERVATION AREAS DURING TIMES OF DEBRIS REMOVAL AND DEBRIS BURNING.

100' LONG x 20' WIDE = 10 (PU) REQUIRED



2 CANOPY TREES = 2 PU's
10 EVERGREEN TREES = 5 PU's
15 SHRUBS = 3 PU's

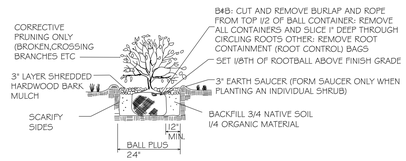
	AREA #1	AREA #2
SWEETGUM	= 21 TREES = 21 UNITS	= 10 TREES = 10 UNITS
PIN OAK	= 21 TREES = 21 UNITS	= 9 TREES = 9 UNITS
VIRGINIA PINE	= 64 TREES = 32 UNITS	= 31 TREES = 15.5 UNITS
NORWAY SPRUCE	= 58 TREES = 29 UNITS	= 32 TREES = 16 UNITS
AMERICAN HOLLY	= 80 TREES = 40 UNITS	= 43 TREES = 21.5 UNITS
ARROWWOOD VIBURNUM	= 141 SHRUBS = 28.2 UNITS	= 72 SHRUBS = 14.4 UNITS
NORTHERN BAYBERRY	= 154 SHRUBS = 30.8 UNITS	= 78 SHRUBS = 15.6 UNITS
TOTAL	= 539 PLANTS = 202 UNITS	= 275 PLANTS = 102 UNITS

BUFFER PLANTING CALCULATIONS

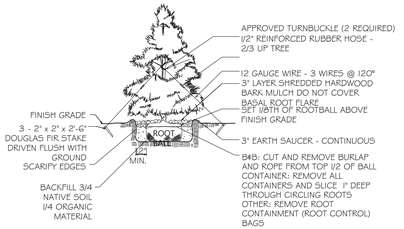
20' WIDE TYPE "A" BUFFER
1 PU PER 10 LINEAR FEET OF THE SCREENED AREA

BUFFER LENGTH AREA #1 = 2,014 L.F. / 10 = 201.4 (202) UNITS REQUIRED
202 UNITS PROVIDED

BUFFER LENGTH AREA #2 = 1,020 L.F. / 10 = 102 UNITS REQUIRED
102 UNITS PROVIDED



SHRUB PLANTING DETAIL
N.T.S.



TREE PLANTING DETAIL - EVERGREEN
N.T.S.

PLANTING NOTE:

ALL TREE STAKES AND GUY WIRES MUST BE REMOVED WITHIN 1 YEAR OF PLANTING

Low-Growing Wildflower & Grass Mix

ERNMX #	ERNMX-156
Cost Per Pound	-
Seeding Rate	20-40 lb per acre
Mix Type	Upland & Meadow Sites
Species List (click for details)	63.6% Sheep Fescue, Variety Not Stated (Festuca ovina, Variety Not Stated) 17% Annual Ryegrass (Lolium multiflorum (L. perenne var. italicum)) 8% Perennial Blue Flax (Linum perenne ssp. lewisii) 2% Blackeyed Susan, Coastal Plain NC Ecotype (Rudbeckia hirta, Coastal Plain NC Ecotype) 2% Lanceleaf Coreopsis, Coastal Plain NC Ecotype (Coreopsis lanceolata, Coastal Plain NC Ecotype) 2% Oxeye Daisy (Chrysanthemum leucanthemum) 1% Shasta Daisy (Chrysanthemum maximum) 1% Partridge Pea, PA Ecotype (Chamaecrista fasciculata (Cassia f.), PA Ecotype) 1% Corn Poppy/Shirley Mix (Papaver rhoeas, Shirley Mix) 0.5% Common Yarrow (Achillea millefolium) 0.5% Aromatic Aster, PA Ecotype (Aster oblongifolius (Symphyotrichum oblongifolium), PA Ecotype) 0.5% Mistflower, VA Ecotype (Eupatorium coelestinum (Conoclinium c.), VA Ecotype) 0.5% Spotted Beebalm, Coastal Plain SC Ecotype (Monarda punctata, Coastal Plain SC Ecotype) 0.3% Butterfly Milkweed (Asclepias tuberosa) 0.1% Slender Mountainmint (Pycnanthemum tenuifolium) Total: 100%

Ernst Native/Naturalized Solar Farm Seed Mix

ERNMX #	ERNMX-186-1
Cost Per Pound	-
Seeding Rate	6 lb per 1,000 sq ft
Mix Type	Lawn Sites
Species List (click for details)	34% Creeping Red Fescue (Festuca rubra) 33% Sheep Fescue, Variety Not Stated (Festuca ovina, Variety Not Stated) 10% Hard Fescue, 'Heron' (Festuca ovina var. duriuscula (F. longifolia), 'Heron') 5% Hard Fescue, 'Chariot' (Festuca brevipila, 'Chariot') 5% Kentucky Bluegrass, 'Clearwater' (Poa pratensis, 'Clearwater') 5% Kentucky Bluegrass, 'Volt' (Poa pratensis, 'Volt') 5% Hard Fescue, 'Harpoon' (Festuca brevipila, 'Harpoon') 3% Autumn Bentgrass, Albany Pine Bush-NY Ecotype (Agrostis perennans, Albany Pine Bush-NY Ecotype) Total: 100%

ADDITIONAL LANDSCAPE NOTES:

1. THE NATIVE/NATURALIZED SOLAR FARM SEED MIX, OR EQUIVALENT IS TO BE USED ON ALL AREAS DESIGNATED AS GRASS ACCESS ROADS.
2. THE LOW GROWING WILD FLOWER MIX, OR EQUIVALENT IS TO BE USED IN THE SOLAR FIELD AREA AND ALL OTHER DISTURBED AREAS.
3. SEE THIS SHEET FOR PLANNED GROUNDS MAINTENANCE NOTES.

CALL "MISS UTILITY" AT 1-800-257-7777 FOR UTILITY LOCATIONS AT LEAST 5 DAYS PRIOR TO BEGINNING CONSTRUCTION.

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. 42,429, EXPIRATION DATE: 06-06-2026

DMW
DAFT McCUNE WALKER INC
920 N. EAST STREET FREDERICK, MD 21701
P: 301 696 9040 WWW.DMW.COM

LANDSCAPE NOTES & DETAILS
CONCEPT SITE DEVELOPMENT PLANS
for
CAPE HORN ROAD SOLAR
CARROLL COUNTY MD

OWNER
ANDREW M. & LORI ANN BARNARD
13141 JESSE SMITH ROAD
MOUNT AIRY, MD 21771

DEVELOPER
2700 CAPE HORN ROAD, LLC
c/o PIVOT ENERGY - JOHN SHIELDS
6865 DEERPATH ROAD, SUITE 330
ELKRIDGE, MD 21075
410-709-4987

DATE	BY	REVISIONS

SEAL

INITIAL SUB:	02/20/2026
SCALE:	AS SHOWN
DRAWN:	JNS
DESIGNED:	JHV
CHECKED BY:	DSM
PROJECT NO.:	23713
DRAWING:	8 of 10

CARROLL COUNTY FILE NO. 5-26-0010

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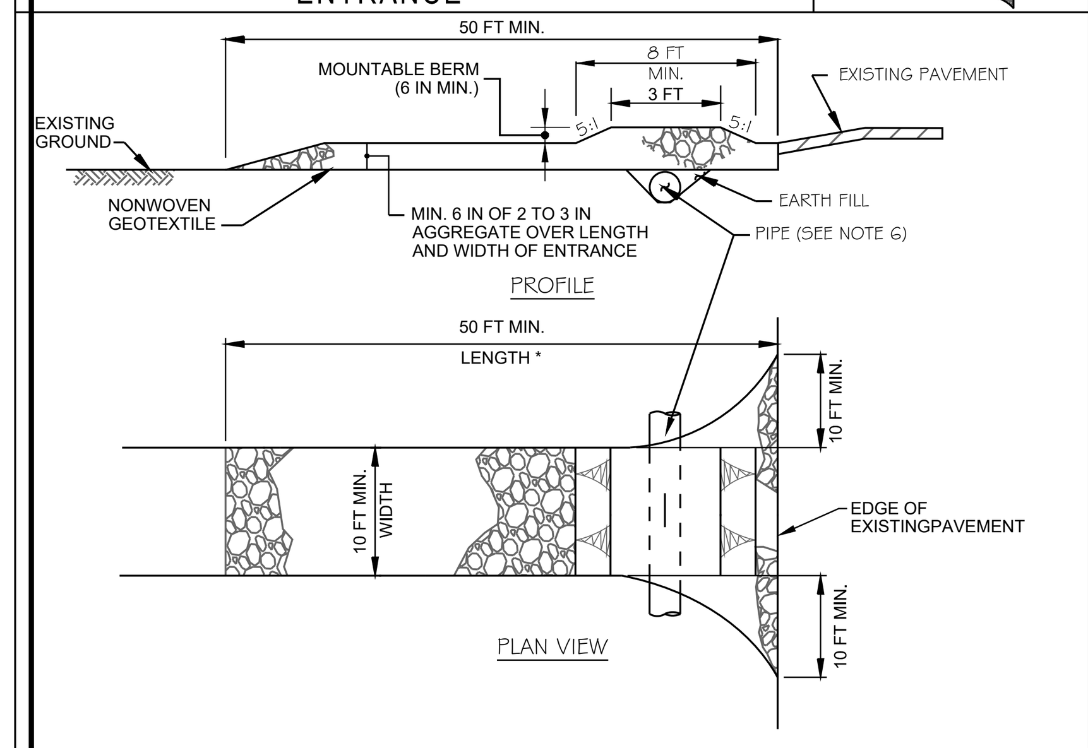
DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL: SCE



CONSTRUCTION SPECIFICATIONS

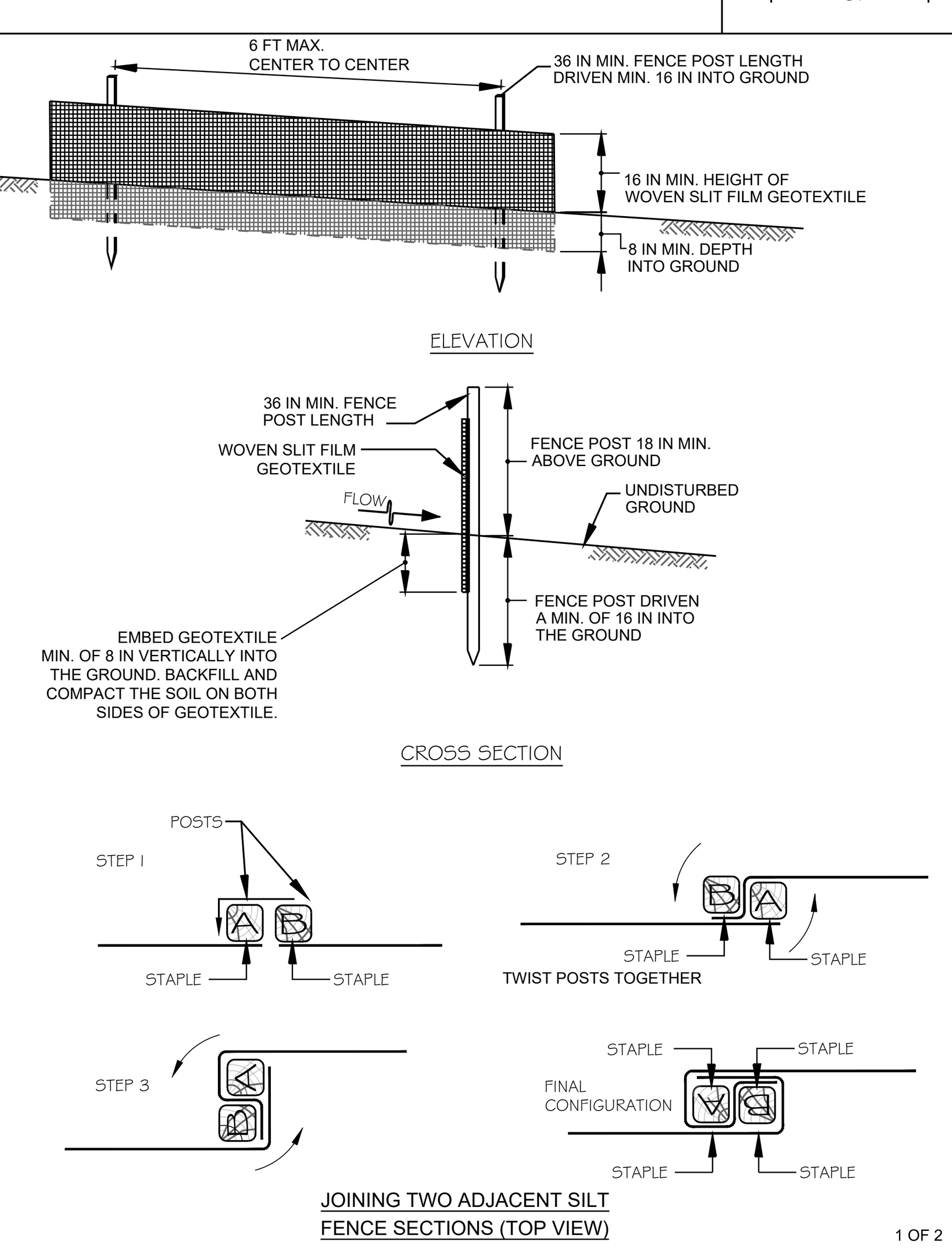
1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. 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.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
4. 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.
5. 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.

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

DETAIL E-1 SILT FENCE

STANDARD SYMBOL: SF



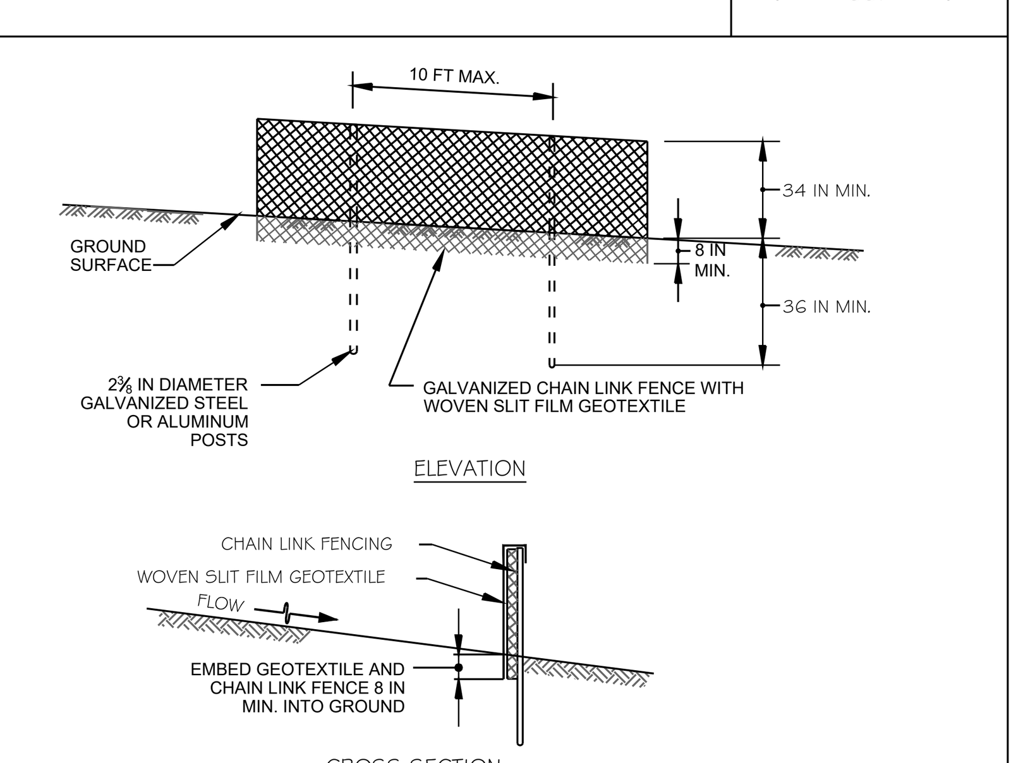
1 OF 2

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

DETAIL E-3 SUPER SILT FENCE

STANDARD SYMBOL: SSF



CONSTRUCTION SPECIFICATIONS

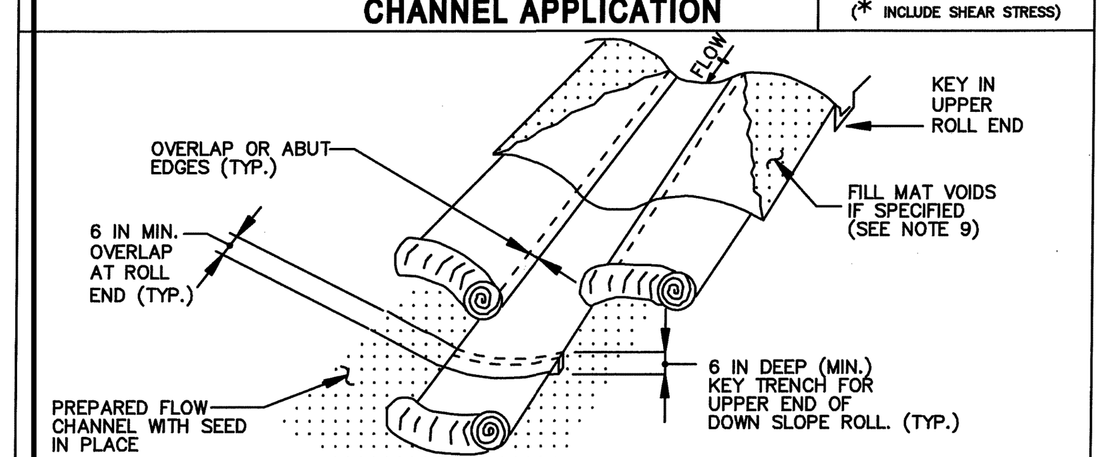
1. INSTALL 2⅜ INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2⅜ INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
3. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
5. EXTEND BOTH ENDS OF THE SUPER 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 SUPER SILT FENCE.
6. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

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

DETAIL B-4-6-C PERMANENT SOIL STABILIZATION MATTING CHANNEL APPLICATION

STANDARD SYMBOL: PSSMC – * lb/ft² (* INCLUDE SHEAR STRESS)



CONSTRUCTION SPECIFICATIONS:

1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
2. USE PERMANENT SOIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC, NON-DEGRADABLE FIBERS OR ELEMENTS OF UNIFORM THICKNESS AND DISTRIBUTION THROUGHOUT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
3. SECURE MATTING USING STEEL STAPLES OR WOOD STAKES. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 ½ INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPE AT THE BOTTOM.
4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS, UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
5. UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTER LINE. WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MATTING SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.
6. OVERLAP OR ABUT EDGES OF MATTING ROLLS PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE NEXT DOWNSTREAM MAT.
7. KEY IN THE TOP OF SLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
9. IF SPECIFIED BY THE DESIGNER OR MANUFACTURER AND DEPENDING ON THE TYPE OF MAT BEING INSTALLED, ONCE THE MATTING IS KEYED AND STAPLED IN PLACE, FILL THE MAT VOIDS WITH TOP SOIL OR GRANULAR MATERIAL AND LIGHTLY COMPACT OR ROLL TO MAXIMIZE SOIL/MAT CONTACT WITHOUT CRUSHING MAT.
10. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

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

Table B.1: Temporary Seeding for Site Stabilization

Plant Species	Seeding Rate [1/]		Seeding Depth [2/] (inches)	Recommended Seeding Dates by Plant Hardiness Zone [3/]		
	lb/ac	lb/1000 ft²		5b and 6a	6b	7a and 7b
Cool-Season Grasses						
Annual Ryegrass (*Lolium perenne ssp. multiflorum*)	40	1.0	0.5	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Oct 15	Feb 15 to Apr 30; Aug 15 to Nov 30
Barley (*Hordeum vulgare*)	96	2.2	1.0	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Oct 15	Feb 15 to Apr 30; Aug 15 to Nov 30
Oats (*Avena sativa*)	72	1.7	1.0	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Oct 15	Feb 15 to Apr 30; Aug 15 to Nov 30
Wheat (*Triticum aestivum*)	120	2.8	1.0	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Oct 15	Feb 15 to Apr 30; Aug 15 to Nov 30
Cereal Rye (*Secale cereale*)	112	2.8	1.0	Mar 15 to May 31; Aug 1 to Oct 31	Mar 1 to May 15; Aug 1 to Nov 15	Feb 15 to Apr 30; Aug 15 to Dec 15
Warm-Season Grasses						
Foxtail Millet (*Setaria italica*)	30	0.7	0.5	Jun 1 to Jul 31	May 16 to Jul 31	May 1 to Aug 14
Pearl Millet (*Pennisetum glaucum*)	20	0.5	0.5	Jun 1 to Jul 31	May 16 to Jul 31	May 1 to Aug 14

NOTES:

1/ Seeding rates for the warm-season grasses are in pounds of Pure Live Seed (PLS). Actual planting rates shall be adjusted to reflect percent seed germination and purity, as tested. Adjustments are usually not needed for the cool-season grasses.

Seeding rates listed above are for temporary seedings, when planted alone. When planted as a nurse crop with permanent seed mixes, use 1/3 of the seeding rate listed above for barley, oats, and wheat. For smaller-seeded grasses (annual ryegrass, pearl millet, foxtail millet), do not exceed more than 5% (by weight) of the overall permanent seeding mix. Cereal rye generally should not be used as a nurse crop, unless planting will occur in very late fall beyond the seeding dates for other temporary seedings. Cereal rye has allelopathic properties that inhibit the germination and growth of other plants. If it must be used as a nurse crop, seed at 1/3 of the rate listed above.

Oats are the recommended nurse crop for warm-season grasses.

2/ For sandy soils, plant seeds at twice the depth listed above.

3/ The planting dates listed are averages for each Zone and may require adjustment to reflect local conditions, especially near the boundaries of the zone.

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TEMPORARY STABILIZATION NOTES

STANDARDS: TEMPORARY STABILIZATION SHALL CONFORM TO ALL REQUIREMENTS OF THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

DEFINITION: TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.

PURPOSE: TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.

CRITERIA

1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 (THIS SHEET) FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3). USE A FERTILIZER RATE (10-20-20) OF 10 LB/1000 SF AND A LIME RATE OF 90 LB/1000 SF.
2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.
3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3.A.1.B AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.
4. SOIL PREPARATION:
   A. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.
   B. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.
   C. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
5. SEEDING:
   A. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED MUST BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY. ALL SEED USED MUST HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON ANY PROJECT. REFER TO TABLE B.4 REGARDING THE QUALITY OF SEED. SEED TAGS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO VERIFY TYPE OF SEED AND SEEDING RATE.
   B. MULCH ALONE MAY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES ONLY IF THE GROUND IS FROZEN. THE APPROPRIATE SEEDING MIXTURE MUST BE APPLIED WHEN THE GROUND THAWS.
   C. INOCULANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A PURE CULTURE OF NITROGEN FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS MUST NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED. TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE.
   D. SOD OR SEED MUST NOT BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.
6. MULCHING
   A. APPLY MULCH TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING.
   B. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES. APPLY MULCH TO ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. WHEN USING A MULCH ANCHORING TOOL, INCREASE THE APPLICATION RATE TO 2.5 TONS PER ACRE.
   C. WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.

PERMANENT STABILIZATION NOTES

STANDARDS: PERMANENT STABILIZATION SHALL CONFORM TO ALL REQUIREMENTS OF THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

DEFINITION: TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION.

PURPOSE: TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS.

CRITERIA

1. SOIL PREPARATION:
   a. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:
      i. SOIL PH BETWEEN 6.0 AND 7.0.
      ii. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).
      iii. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.
      iv. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
      v. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
   b. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS.
   c. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES.
   d. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.
   e. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.
2. SEED MIXTURES:
   a. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3) ANS BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE B.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY.
   b. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY.
   c. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3½ POUNDS PER 1,000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY.
   d. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES, LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER 1½ INCHES IN DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY.
   e. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDLINGS WITH ADEQUATE WATER FOR PLANT GROWTH (½ TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDLINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.
3. SOD:
   a. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.
   b. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF ¾ INCH, PLUS OR MINUS ¼ INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
   c. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
   d. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
   e. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.

FOR SITES 1.0 ACRE OR MORE, THE FOLLOWING ARE REQUIRED:

NPDES PERMIT

1. MARYLAND DEPARTMENT OF THE ENVIRONMENT, GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH A CONSTRUCTION ACTIVITY, NPDES PERMIT NUMBER MDR10, STATE DISCHARGE PERMIT NUMBER 09GP, OR AN INDIVIDUAL PERMIT.
2. THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (GENERAL/INDIVIDUAL PERMIT - NOTICE OF INTENT - NOI) APPICATION AND PERMIT SHALL BE POSTED AND/OR AVAILABLE ON-SITE AT ALL TIMES.
3. DURING CONSTRUCTION, ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES (BMP'S) SHALL BE INSPECTED AND RECORDED ON THE "STANDARD INSPECTION FORM", "GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY" PER THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (GENERAL/INDIVIDUAL PERMIT - NOTICE OF INTENT - NOI)
4. ONCE ALL PORTIONS OF A SITE HAVE BEEN PERMANENTLY STABILIZED, AND ALL STORMWATER DISCHARGES FROM CONSTRUCTION SITES THAT ARE AUTHORIZED BY THE PERMIT ARE ELIMINATED, THE AUTHORIZED PERMITTEE SHALL SUBMIT THE MARYLAND DEPARTMENT OF THE ENVIRONMENT GENERAL/INDIVIDUAL PERMIT - NOTICE OF TERMINATION - NOT.

GENERAL SEDIMENT CONTROL NOTES

1. THE PERMITTEE SHALL NOTIFY THE LOCAL SOIL CONSERVATION DISTRICT AND CARROLL COUNTY AND/OR MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITY AND UNLESS WAIVED BY SCS, SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN THEMSELVES, AND/OR THEIR ASSIGNS/REPRESENTATIVES, AS OUTLINED IN THE APPROVED SEQUENCE OF CONSTRUCTION.
2. THE PERMITTEE SHALL OBTAIN INSPECTION AND APPROVAL FROM SCS/DPW AT THE FOLLOWING POINTS:
   a. AT THE REQUIRED PRE-CONSTRUCTION MEETING.
   b. FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES AND PRIOR TO ANY OTHER LAND DISTURBING ACTIVITY.
   c. DURING THE INSTALLATION OF A SEDIMENT BASIN OR STORMWATER MANAGEMENT STRUCTURE AT THE REQUIRED INSPECTION POINTS (SEE INSPECTION CHECKLIST ON PLAN). NOTIFICATION PRIOR TO COMMENCING CONSTRUCTION IS MANDATORY.
   d. PRIOR TO THE REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE(S).
   e. PRIOR TO FINAL ACCEPTANCE.
3. THE PERMITTEE SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE, SHALL HAVE THEM INSPECTED AND APPROVED BY THE DPW PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCE, SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES, AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURES WITHOUT PRIOR PERMISSION FROM THE DPW.
4. THE PERMITTEE SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSED PUBLIC THOROUGHFARE(S). ALL MATERIALS DEPOSITED ONTO PUBLIC THOROUGHFARE(S) SHALL BE REMOVED IMMEDIATELY.
5. THE PERMITTEE SHALL INSPECT PERIODICALLY AND MAINTAIN CONTINUOUSLY, IN EFFECTIVE OPERATING CONDITION, ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIME AS THEY ARE REMOVED WITH THE PRIOR PERMISSION OF THE DPW.
6. ALL SEDIMENT BASINS, TRAP EMBANKMENTS, PERIMETER DIKES, AND ALL DISTURBED SLOPES STEEPER OR EQUAL TO 3:1 SHALL BE STABILIZED WITH SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES, AS INDICATED IN THE STANDARD STABILIZATION NOTES. ALL AREAS DISTURBED OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST BE MINIMIZED AND STABILIZED IMMEDIATELY. MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.
7. THE PERMITTEE SHALL APPLY SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS AFTER STRIPPING AND GRADING ACTIVITIES HAVE CEASED ON THAT AREA. MAINTENANCE SHALL BE PERFORMED AS NECESSARY, AND AREAS WITHIN 50-FEET OF A BUILDING UNDER CONSTRUCTION MAY BE EXEMPTED FROM THIS REQUIREMENT, PROVIDED THAT EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED AND MAINTAINED TO PROTECT THOSE AREAS.
8. PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES, THE PERMITTEE SHALL STABILIZE ALL CONTRIBUTORY DISTURBED AREAS USING SOD OR AN APPROVED PERMANENT SEED MIXTURE WITH REQUIRED SOIL AMENDMENTS AND AN APPROVED ANCHORED MULCH. WOOD FIBER MULCH MAY ONLY BE USED IN SEEDING SEASON WHERE THE SLOPE DOES NOT EXCEED 10% AND GRADING HAS BEEN DONE TO PROMOTE SHEET FLOW DRAINAGE. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED AS INDICATED IN THE STANDARD STABILIZATION NOTES. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS OF NOVEMBER THROUGH FEBRUARY, AND PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, AND APPROVED TEMPORARY SEED AND STRAW ANCHORED MULCH SHALL BE APPLIED TO DISTURBED AREAS. THE FINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE COMPLETED PRIOR TO THE FOLLOWING APRIL 15TH.
9. THE SITE PERMIT, WORK, MATERIALS, APPROVED SC/SM PLANS AND TEST REPORTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION BY DULY AUTHORIZED OFFICIALS OF FREDERICK COUNTY.
10. SURFACE DRAINAGE FLOWS OVER UNSTABILIZED CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER PREVENTING DRAINAGE FLOWS FROM TRAVERSING THE SLOPES OR BY INSTALLING MECHANICAL DEVICES TO LOWER THE WATER DOWNSLOPE WITHOUT CAUSING EROSION. DIKES SHALL BE INSTALLED AND MAINTAINED AT THE TOP OF CUT OR FILL SLOPES UNTIL THE SLOPE AND DRAINAGE AREA TO IT ARE FULLY STABILIZED, AT WHICH TIME THEY MUST BE REMOVED AND FINAL GRADING DONE TO PROMOTE SHEET FLOW DRAINAGE. MECHANICAL DEVICES MUST BE PROVIDED AT POINTS OF CONCENTRATED FLOW WHERE EROSION IS LIKELY TO OCCUR.
11. PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITH SOD OR SEED WITH APPROVED EROSION CONTROL MATTING OR BY OTHER APPROVED STABILIZATION MEASURES.
12. TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE REMOVED, WITH THE PERMISSION OF THE DPW, WITHIN THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL.
13. NO PERMANENT CUT OR FILL SLOPE WITH A GRADIENT STEEPER THAN 3:1 WILL BE PERMITTED IN LAWN MAINTENANCE AREAS. A SLOPE GRADIENT OF UP TO 3:1 WILL BE PERMITTED IN NON-MAINTENANCE AREAS PROVIDED THAT THOSE AREAS ARE INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN WITH A LOW-MAINTENANCE GROUND COVER SPECIFIED FOR PERMANENT STABILIZATION. SLOPE GRADIENT'S STEEPER THAN 2:1 WILL NOT BE PERMITTED WITH VEGETATIVE STABILIZATION.
14. THE PERMITTEE SHALL INSTALL A SPLASH-BLOCK AT THE BOTTOM OF EACH DOWNSPOUT UNLESS THE DOWNSPOUT IS CONNECTED WITH A DRAIN LINE TO AN ACCEPTABLE OUTLET.
15. FOR FINISHED GRADING, THE PERMITTEE SHALL PROVIDE ADEQUATE GRADIENTS SO AS TO : (1) PREVENT WATER FROM STANDING ON THE SURFACE OF LAWNS MORE THAN TWENTY-FOUR (24) HOURS AFTER THE END OF A RAINFALL, EXCEPT IN DESIGNATED DRAINAGE COURSES AND SWALE FLOW AREAS WHICH MAY DRAIN AS LONG AS FORTY-EIGHT (48) HOURS AFTER THE END OF A RAINFALL, AND (2) PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS OR OPENINGS.
16. SEDIMENT TRAPS OR BASINS ARE NOT PERMITTED WITHIN 20 FEET OF A BUILDING THAT EXISTS OR IS UNDER CONSTRUCTION. NO BUILDING MAY BE CONSTRUCTED WITHIN 20 FEET OF A SEDIMENT TRAP OR BASIN.
17. ALL INLETS IN NON-SUMP AREAS SHALL HAVE ASPHALT BERMS INSTALLED AT THE TIME OF BASE PAVING ESTABLISHMENT.
18. THE SEDIMENT CONTROL INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SEDIMENT CONTROL MEASURES, IF DEEMED NECESSARY.
19. ALL TRAP ELEVATIONS ARE RELATIVE TO THE OUTLET ELEVATION, WHICH MUST BE ON EXISTING UNDISTURBED GROUND.
20. VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. REFER TO SECTION B FOR THE FOLLOWING WHEN APPLYING: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, SODDING, AND GROUND COVERS.
21. TEMPORARY SEDIMENT TRAP(S) SHALL BE CLEANED OUT AND RESTORED TO THE ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A POINT ONE-HALF (1/2) THE DEPTH BETWEEN OUTLET CREST AND THE BOTTOM OF THE TRAP, OR AS DIRECTED BY THE INSPECTOR.
22. SEDIMENT REMOVED FROM TRAPS SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN.
23. ALL SEDIMENT BASINS AND TRAPS MUST BE SURROUNDED WITH A WELDED WIRE, OR APPROVED EQUAL, SAFETY FENCE. THE FENCE MUST BE AT LEAST 42 INCHES HIGH, HAVE POSTS SPACED NO FARTHER APART THAN EIGHT (8) FEET, HAVE MESH OPENINGS NO GREATER THAN 2 INCHES IN WIDTH AND 4 INCHES IN HEIGHT WITH A MINIMUM OF 14 GAUGE WIRE OR EQUAL. SAFETY FENCE MUST BE MAINTAINED IN GOOD CONDITION AT ALL TIMES.
24. NO EXCAVATION IN THE AREA OF EXISTING UTILITIES IS PERMITTED UNLESS THEIR LOCATION HAS BEEN DETERMINED. CALL "MISS UTILITY" AT 1-800-257-7777 FORTY-EIGHT (48) HOURS PRIOR TO THE START OF WORK.
25. OFF SITE SPOIL OR BORROW AREAS MUST HAVE PRIOR APPROVAL FROM SCS.
26. ALL EROSION/SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN CONTINUOUS COMPLIANCE WITH THE LATEST VERSION OF "THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL".
27. ALL UTILITIES, SUCH AS: STORM DRAIN, PUBLIC WATER, SANITARY SEWER, ELECTRIC POWER, TELEPHONE, CABLE AND GAS LINES, THAT ARE NOT IN PAVED AREAS AND ARE NOT UNDERGOING ACTIVE GRADING SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 3 DAYS OF INITIAL DISTURBANCE.
28. THE OWNER/DEVELOPER OR THEIR DESIGNATE IS RESPONSIBLE FOR CONDUCTING ROUTINE INSPECTIONS AND REQUIRED MAINTENANCE. THE SITE AND CONTROLS SHOULD BE INSPECTED WEEKLY AND THE NEXT DAY AFTER EACH RAIN EVENT**. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN A SUITABLE AREA AND SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED.

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

FOR UTILITY WORK ONLY OR FOR OFF-SITE UTILITY WORK

1. CAN NOT EXCEED 5,000 SQUARE FEET.
2. PLACE ALL EXCAVATED MATERIAL ON THE HIGH SIDE OF THE TRENCH.
3. ONLY DO AS MUCH WORK AS CAN BE COMPLETED IN ONE DAY SO BACKFILLING, FINAL GRADING, SEEDING AND MULCHING CAN OCCUR AT THE SAME PACE AS CONSTRUCTION.
4. ANY SEDIMENT CONTROL MEASURES DISTURBED BY CONSTRUCTION WILL BE REPAIRED THE SAME DAY.

STOCKPILE NOTES

1. ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE.
2. STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION REQUIREMENT AS WELL AS STANDARD B-4-1 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION.
3. IF THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LINER SHOULD BE PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING.

REVISED UTILITY NOTE FOR SECONDARY UTILITY WORK

A. ALL DISTURBANCES FROM SECONDARY UTILITY'S SUCH AS PHONE CABLE, ELECTRIC CABLE. T.V. CABLE, ETC. WILL BE SUBCONTRACTORS RESPONSIBILITY TO BRING WORK AREA BACK TO GRADE LEVEL THAT WAS EXISTING AND SEED AND MULCH ANY DISTURBANCE FROM INSTALLATION OF LINES OR CONDUIT.

B. SUBCONTRACTORS WILL BE RESPONSIBLE FOR RE-INSTALLING OR REPAIRING ANY SILT FENCE OR SEDIMENT CONTROLS THAT WERE EXISTING TO MAINTAIN PROPER SEDIMENT CONTROL THAT MIGHT HAVE BEEN DAMAGED.

STANDARD STABILIZATION NOTE

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

A. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND

B. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON PROJECT SITE NOT UNDER ACTIVE GRADING.

SEQUENCE OF CONSTRUCTION

1. CONTRACTOR SHALL NOTIFY MISS UTILITY, 1-80-257-7777, A MINIMUM OF 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL NOTIFY THE CARROLL COUNTY SOIL CONSERVATION DISTRICT AT 410-848-8200 X 3 A MINIMUM OF 2 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION MEETING. THE NPDES NOI SHALL BE RECEIVED FROM MDE PRIOR TO START OF CONSTRUCTION AND A COPY PROVIDED TO SCD.
3. INSTALL PERIMETER SEDIMENT CONTROLS: STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCES.
4. BEGIN CLEARING AND GRUBBING OPERATIONS.
5. ESTABLISH MEADOW VEGETATION PER THE SEED MIXES SHOWN ON SHEET 8.
5. BEGIN INSTALLATION OF ACCESS ROADS AND POSTS/RACKING SYSTEMS FOR SOLAR PANELS.
6. EXCAVATE TRENCHES AND INSTALL CONDUIT LINES.
7. BEGIN INSTALLATION LEVEL SPREADERS.
8. INSTALL SOLAR PANELS AND COMPLETE ELECTRICAL CONNECTIONS.
9. RE-ESTABLISH MEADOW VEGETATION AS NEEDED.
10. INSTALL PERIMETER AGRICULTURAL FENCE AND GATES.
11. ONCE WORK IS COMPLETE, PERFORM PERMANENT SEEDING AND MULCHING ON ANY REMAINING DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
12. PREPARE SWM AS-BUILT DRAWINGS.
13. WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR REMOVE ALL REMAINING SEDIMENT CONTROL PRACTICES. STABILIZE ALL REMAINING AREAS.

SEDIMENT CONTROL/STORMWATER MANAGEMENT REQUIRED INSPECTIONS

YOU MUST NOTIFY THE CARROLL COUNTY SEDIMENT CONTROL INSPECTOR AT 410-848-8200 BEFORE 9:00 AM 24 HOURS PRIOR TO THE REQUIRED INSPECTION. FAILURE TO NOTIFY THIS OFFICE WILL RESULT IN A STOP WORK ORDER OR OTHER PENALTIES AS OUTLINED IN CARROLL COUNTY CODES.

***** NOTICE *****

THIS LIST IS FOR SEQUENCE OF CONSTRUCTION ONLY. THIS OFFICE ASSUMES NO RESPONSIBILITY OF LIABILITY FOR IMPROPER INSTALLATION OR ANY ITEMS ON THIS CHECKLIST. THIS OFFICE RECOMMENDS THAT A PROFESSIONAL ENGINEER BE PRESENT FOR EACH OF THE REQUIRED INSPECTIONS.

TYPE OF INSPECTIONS:	COMMENTS/INITIALS
1) PRE-CONSTRUCTION MEETING	
2) COMPLETION OF SEDIMENT CONTROL INSTALLATION	
3) PRIOR TO MODIFICATION OR REMOVAL OF SED. CONTROL	
APPROVED:	

B-4-1 STANDARDS AND SPECIFICATIONS

FOR

INCREMENTAL STABILIZATION

Definition

Establishment of vegetative cover on cut and fill slopes.

Purpose

To provide timely vegetative cover on cut and fill slopes as work progresses.

Conditions Where Practice Applies

Any cut or fill slope greater than 15 feet in height. This practice also applies to stockpiles.

Criteria

A. Incremental Stabilization - Cut Slopes
   1. Excavate and stabilize cut slopes in increments not to exceed 15 feet in height. Prepare seedbed and apply seed and mulch on all cut slopes as the work progresses.
   2. Construction sequence example (Refer to Figure B.1):
      a. Construct and stabilize all temporary swales or dikes that will be used to convey runoff around the excavation.
      b. Perform Phase 1 excavation, prepare seedbed, and stabilize.
      c. Perform Phase 2 excavation, prepare seedbed, and stabilize. Overseed Phase 1 areas as necessary.
      d. Perform final phase excavation, prepare seedbed, and stabilize. Overseed previously seeded areas as necessary.

Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

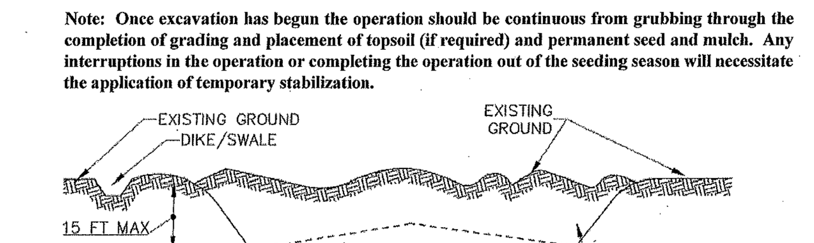


Figure B.1: Incremental Stabilization – Cut

B. Incremental Stabilization - Fill Slopes
   1. Construct and stabilize fill slopes in increments not to exceed 15 feet in height. Prepare seedbed and apply seed and mulch on all slopes as the work progresses.
   2. Stabilize slopes immediately when the vertical height of a lift reaches 15 feet, or when the grading operation ceases as prescribed in the plans.
   3. At the end of each day, install temporary water conveyance practice(s), as necessary, to intercept surface runoff and convey it down the slope in a non-erosive manner.
   4. Construction sequence example (Refer to Figure B.2):
      a. Construct and stabilize all temporary swales or dikes that will be used to divert runoff around the fill. Construct silt fence on low side of fill unless other methods shown on the plans address this area.
      b. At the end of each day, install temporary water conveyance practice(s), as necessary, to intercept surface runoff and convey it down the slope in a non-erosive manner.
      c. Place Phase 1 fill, prepare seedbed, and stabilize.
      d. Place Phase 2 fill, prepare seedbed, and stabilize.
      e. Place final phase fill, prepare seedbed, and stabilize. Overseed previously seeded areas as necessary.

Note: Once the placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

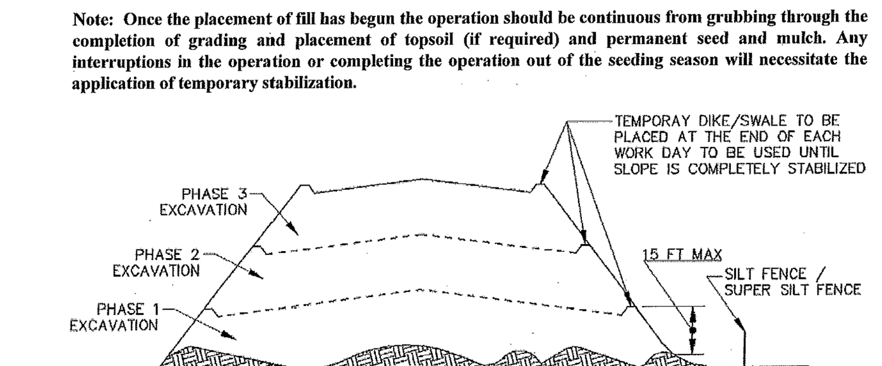


Figure B.2: Incremental Stabilization – Fill

CALL "MISS UTILITY" AT 1-800-257-7777 FOR UTILITY LOCATIONS AT LEAST 5 DAYS PRIOR TO BEGINNING CONSTRUCTION.

B-4-4 STANDARDS AND SPECIFICATIONS

FOR

TEMPORARY STABILIZATION

Definition

To stabilize disturbed soils with vegetation for up to 6 months.

Purpose

To use fast growing vegetation that provides cover on disturbed soils.

Conditions Where Practice Applies

Exposed soils where ground cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices are required.

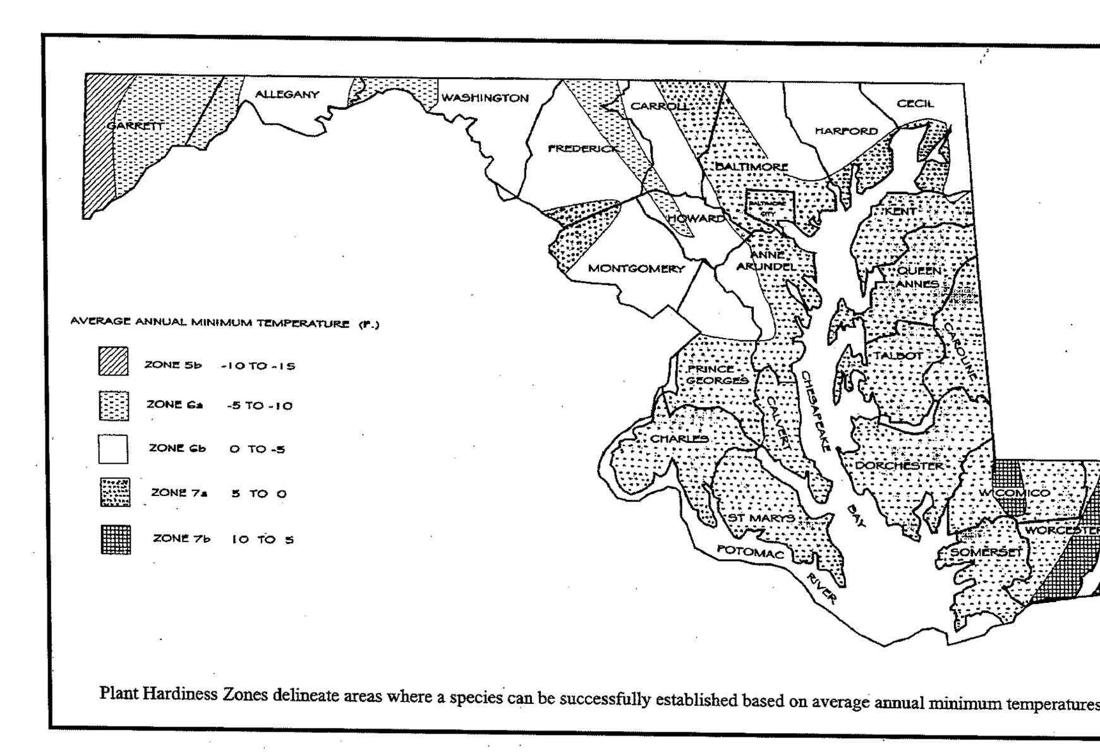
Criteria

1. Select one or more of the species or seed mixtures listed in Table B.1 for the appropriate Plant Hardiness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths. If this Summary is not put on the plan and completed, then Table B.1 plus fertilizer and lime rates must be put on the plan.
2. For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests are not required for Temporary Seeding.
3. When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch alone as prescribed in Section B-4-3.A.1.b and maintain until the next seeding season.

Temporary Seeding Summary

Hardiness Zone (from Figure B.3): 6a Seed Mixture (from Table B.1): T.B.D.					Fertilizer Rate (10-20-20)	Lime Rate
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths		
	*	*	*	*	436 lb/ac (10 lb/1000 sf)	2 tons/ac (90 lb/1000 sf)

* INFORMATION FROM TABLE B.1 TO BE USED ONCE PLANTING SEASON DETERMINED



Plant Hardiness Zones delineate areas where a species can be successfully established based on average annual minimum temperatures.

Figure B.3: U.S.D.A. Plant Hardiness Zones

CARROLL SOIL CONSERVATION DISTRICT

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

Approved ______________________ Carroll S.C.D./Date

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. 42,429, EXPIRATION DATE: 06-06-2026

DMW
DAFT McCUNE WALKER INC
920 N. EAST STREET FREDERICK, MD 21701
P: 301 696 9040 WWW.DMW.COM

SEC NOTES & DETAILS

CONCEPT SITE DEVELOPMENT PLANS

for

CAPE HORN ROAD SOLAR

CARROLL COUNTY MD

OWNER
ANDREW M. & LORI ANN BARNARD
13141 JESSE SMITH ROAD
MOUNT AIRY, MD 21771

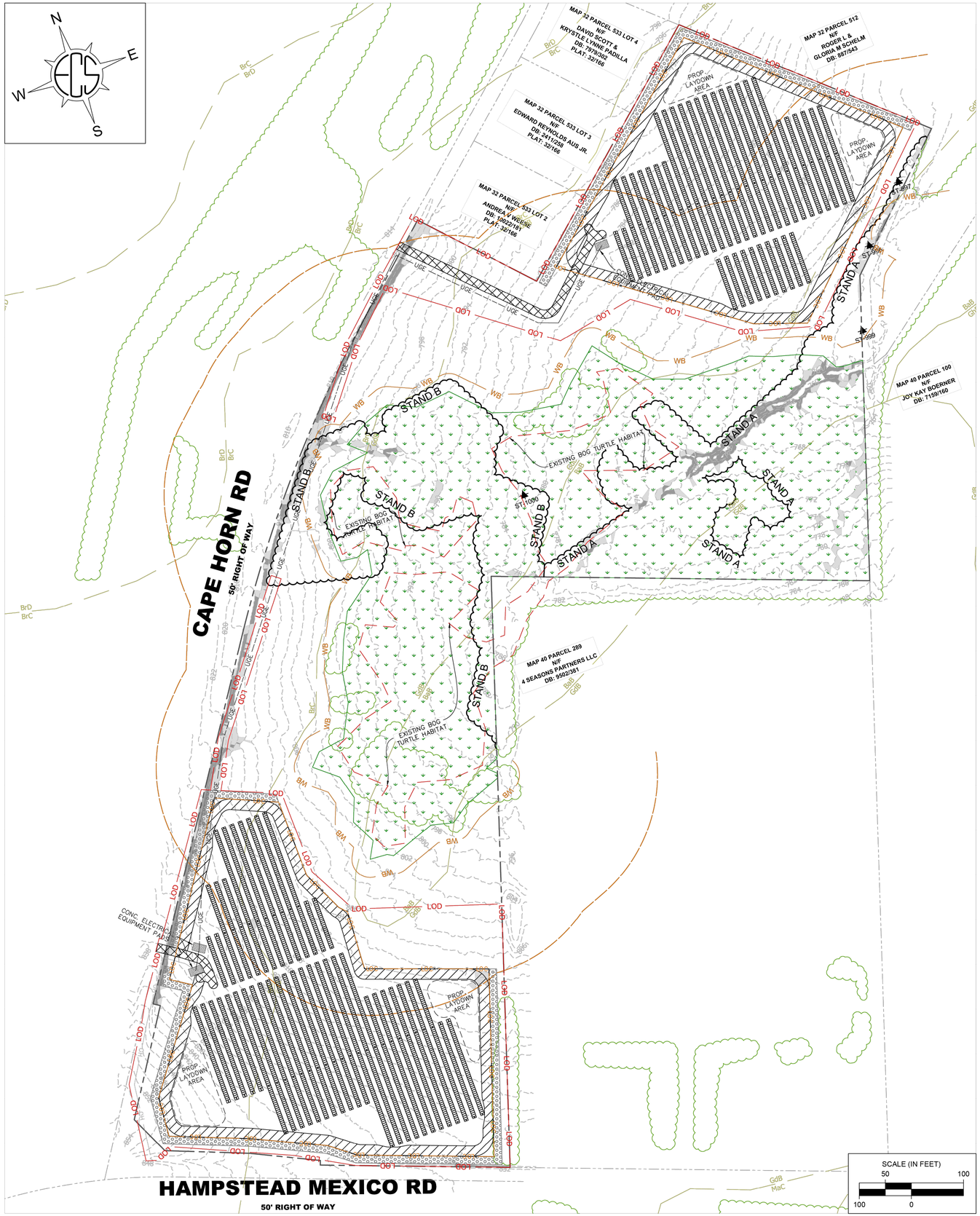
DEVELOPER
2700 CAPE HORN ROAD, LLC
c/o PIVOT ENERGY - JOHN SHIELDS
6865 DEERPATH ROAD, SUITE 330
ELKRIDGE, MD 21075
410-709-4987

DATE	BY	REVISIONS

SEAL

INITIAL SUB:	02/20/2026
SCALE:	AS SHOWN
DRAWN:	JNS
DESIGNED:	JHV
CHECKED BY:	DSM
PROJECT NO.:	23713
DRAWING:	9 of 10

CARROLL COUNTY FILE NO. S-26-0010



VICINITY MAP

1" = 2,000'

LEGEND

- ST-# — SPECIMEN TREE LOCATION
- FOREST STAND
- TREE LINE
- AbcD / AbcD — SOIL UNITS
- EXISTING ELEVATION CONTOURS
- STEEP SLOPES (15-25%)
- STEEP SLOPES (>15%)
- EXISTING NONTIDAL WETLAND
- WB / WB — PRELIMINARY 35' NONTIDAL WETLAND BUFFER
- EXISTING BOG TURTLE HABITAT
- PRELIMINARY BOG TURTLE HABITAT BUFFER
- LOD — PROPOSED LIMITS OF DISTURBANCE (LOD) (16.25 AC)
- LANDSCAPE BUFFER
- PROPOSED ACCESS ROAD
- PROPOSED GRASS ACCESS ROAD
- SUBJECT PROPERTY BOUNDARIES
- ADJOINING PROPERTY BOUNDARIES

Site-Specific Notes

1. Two forest stands are present within the subject property:
   a. Forest Stand A is a young to medium-aged stand located in the eastern and northeastern portions of the subject property. This stand generally consists of black cherry, black walnut, and northern red oak with an understory of green ash and red maple. A small area of planted red cedar is present within the central portion of the stand along with green ash and black willow along the stream and wetland boundaries. The herbaceous stratum of this stand contains Japanese stilt grass, deertongue, and grape.
   b. Forest Stand B is a young stand located in the central and west-central portions of the subject property. This stand generally consists of black cherry, black walnut, and red maple with an understory of black willow and green ash.
2. Watershed Eco, LLC conducted a wetland delineation at the subject property on May 4, 2022. The report indicated that palustrine forested, scrub-shrub, and emergent wetlands are present within the subject property in addition to an intermittent stream. ECS has not been provided with geospatial data depicting the limits of the observed stream.
3. Wetland features depicted herein were field verified by the MDE on November 21, 2023..
4. Soil mapping unit BaB – Baile silt loam, 3 to 8 percent slopes has a K-value greater than 0.35. Steep slopes are present within the subject property and are predominantly located along the apparent stream banks and adjacent to Cape Horn Road.
5. SGC Power submitted an Environmental Review request to the Maryland DNR for any information on critical habitat or threatened and endangered species onsite. On April 6, 2022, Ms. Lori Byrne of the DNR responded that no official records for State or Federal listed, candidate, proposed, or rare plant or animal species are located within the project area except for the state-threatened and federally listed Bog Turtle. Additional coordination is occurring with the USFWS, most recently noted in the USFWS response from April 20, 2023, where it was stated that trapping needs to be conducted in conjunction with radio tagging and tracking of the turtles over the active season, winter, and during construction. A hydrologic study will also be required.
6. According to FEMA, there is no 100-year floodplain present within the study area.
7. According to MERLIN, the subject property is not identified on the Maryland Inventory of Historic Places.
8. Residential structures and agricultural land are present to the north of the subject property. Agricultural fields, wooded land, and a school are present to the east of the subject property. Several residential and commercial structures in addition to agricultural fields are present to the south and west of the subject property. Hampstead Mexico Road adjoins the southern boundary of the subject property and Cape Horn Road adjoins the western boundary of the subject property.
9. Construction stockpile/laydown areas and phasing plans will be prepared during the local site plan and construction document preparation process.
10. The Project schedule includes the following approximate milestones:
    a. Engineering and Permitting: TBD
    b. Start of construction: TBD
    c. Start of Commercial Operation: TBD

Forest Conservation Worksheet 2.2

Net Tract Area			
A.	Total Tract Area	A =	34.99
B.	Deductions	B =	0.00
C.	Net Tract Area	C =	34.99
Land Use Category			
	Input the number "1" under the appropriate land use zoning, and limit to only one entry		
	ARA 1 / MDR 0 / IDA 0 / HDR 0 / MPD 0 / CIA 0		
D.	Afforestation Threshold (Net Tract Area x 20%)	D =	7.00
E.	Conservation Threshold (Net Tract Area x 50%)	E =	17.50
Existing Forest Cover			
F.	Existing Forest Cover within the Net Tract Area	F =	7.01
G.	Area of Forest Above Conservation Threshold	G =	0.00
Break Even Point			
H.	Break Even Point	H =	7.01
I.	Forest Clearing Permitted Without Mitigation	I =	0.00
Proposed Forest Clearing			
J.	Total Area of Forest to be Cleared	J =	0.00
K.	Total Area of Forest to be Retained	K =	7.01
Planting Requirements			
L.	Reforestation for Clearing Above the Conservation Threshold	L =	0.00
M.	Reforestation for Clearing Below the Conservation Threshold	M =	0.00
N.	Credit for Retention above the Conservation Threshold	N =	0.00
P.	Total Reforestation Required	P =	0.00
Q.	Total Afforestation Required	Q =	0.00
R.	Total Planting Requirement	R =	0.00

This Forest Stand Delineation has been prepared in accordance with all State and local ordinances which were in effect as of the date shown below. The undersigned is a qualified professional in accordance with COMAR 08.19.06.01.

Michael Bacon

Soils Table

Map Unit Symbol	Map Unit Name	Hydric Rating	Natural Drainage Class	Hydrologic soil group	K-Value
BaB	Baile silt loam, 3 to 8 percent slopes	Yes	Poorly drained	C/D	0.37
BrC	Brinklow channery loam, 8 to 15 percent slopes	No	Well drained	C	0.20
GdB	Glenelg loam, 3 to 8 percent slopes	No	Well drained	B	0.24

Forest Stand Table

Forest Stand ID	Square Feet (SF)	Acres (AC)	Dominant Species	Successional Stage
A	176,980	4.06	*Prunus serotina, Juglans nigra, Quercus rubra*	Young to Medium
B	128,398	2.95	*Prunus serotina, Juglans nigra, Acer rubrum*	Young

CARROLL COUNTY FILE NO. X-XX-XXX

ECS - MID-ATLANTIC, LLC
1340 CHERWOOD ROAD
SUITE B
HANOVER, MD 21076
1-800-822-3469
410-859-4300
(FAX) 703-834-5527

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MDL 124
2405 CAPE HORN ROAD
CARROLL COUNTY, MARYLAND

FOREST CONSERVATION PLAN
ELK DEVELOPMENT, LLC

ECS REVISIONS

ENGINEER	DRAFTING
AMM	TJW

SCALE: 1" - 100'

PROJECT NO.: 47:17050

SHEET: 10 of 10

DATE: 01 JUL 2024