

NOTES:

- THE PURPOSE OF THIS PLAN IS TO OBTAIN APPROVAL FOR A PRIVATE SEWAGE AREA OF 10,000 SQUARE FEET TO SERVE THE ALLNUTT PROPERTY, TAX MAP 12, GRID 24, PARCEL 36.
- TOPOGRAPHY SHOWN HEREON WAS FIELD RUN BY SHANABERGER & LANE IN MARCH, 2017 WITHIN THE LIMITS SHOWN. OTHER TOPOGRAPHY IS FROM 2013 HOWARD COUNTY LIDAR.
- ONSITE IMPROVEMENTS WITHIN THE LIMITS OF FIELD RUN TOPOGRAPHY WERE LOCATED BY SHANABERGER & LANE IN MARCH, 2017. OTHER IMPROVEMENTS SHOWN ARE FROM 2013 HOWARD COUNTY LIDAR.
- EXISTING WELL AND SEPTIC SYSTEM LOCATIONS SHOWN HEREON ARE FROM AVAILABLE HOWARD COUNTY HEALTH DEPARTMENT RECORDS, AND FIELD LOCATION.
- PROPOSED WELL AREA

EXISTING WELL

SOIL TYPE BOUNDARY

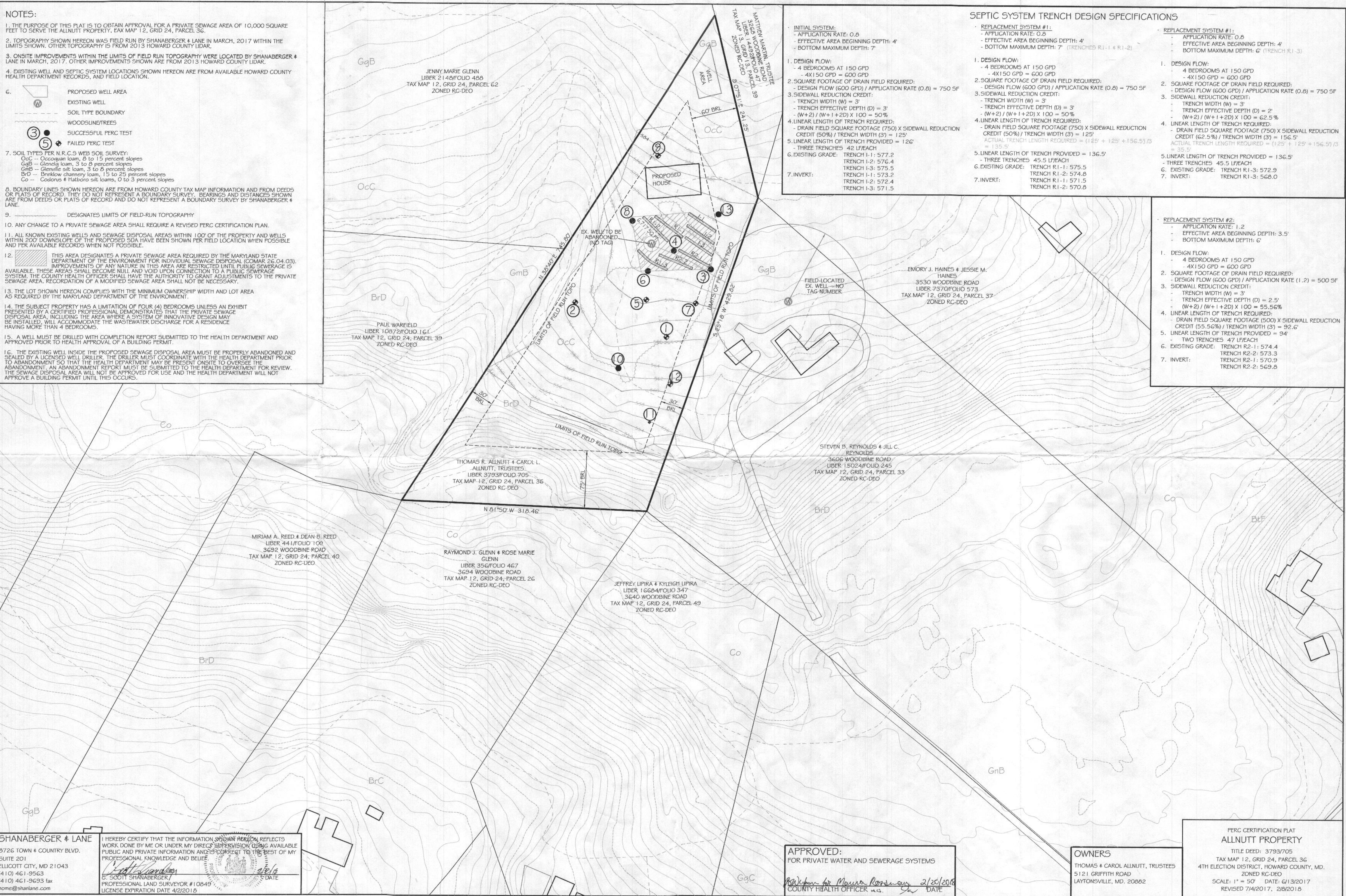
WOODS/LINE/TREES

③ SUCCESSFUL PERC TEST

⑤ FAILED PERC TEST
- SOIL TYPES PER N.R.C.S WEB SOIL SURVEY:
 - OcC - Ocoquan loam, 8 to 15 percent slopes
 - GgB - Glenelig loam, 3 to 8 percent slopes
 - GmB - Glenelig silt loam, 3 to 8 percent slopes
 - BrD - Brinklow channery loam, 15 to 25 percent slopes
 - Co - Codorus & Hatboro silt loams, 0 to 3 percent slopes
- BOUNDARY LINES SHOWN HEREON ARE FROM HOWARD COUNTY TAX MAP INFORMATION AND FROM DEEDS OR PLATS OF RECORD. THEY DO NOT REPRESENT A BOUNDARY SURVEY. BEARINGS AND DISTANCES SHOWN ARE FROM DEEDS OR PLATS OF RECORD AND DO NOT REPRESENT A BOUNDARY SURVEY BY SHANABERGER & LANE.
- DESIGNATES LIMITS OF FIELD-RUN TOPOGRAPHY
- ANY CHANGE TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
- ALL KNOWN EXISTING WELLS AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND WELLS WITHIN 200' DOWNSLOPE OF THE PROPOSED SDA HAVE BEEN SHOWN PER FIELD LOCATION WHEN POSSIBLE AND PER AVAILABLE RECORDS WHEN NOT POSSIBLE.
- THIS AREA DESIGNATES A PRIVATE SEWAGE AREA REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- THE SUBJECT PROPERTY HAS A LIMITATION OF FOUR (4) BEDROOMS UNLESS AN EXHIBIT PRESENTED BY A CERTIFIED PROFESSIONAL DEMONSTRATES THAT THE PRIVATE SEWAGE DISPOSAL AREA, INCLUDING THE AREA WHERE A SYSTEM OF INNOVATIVE DESIGN MAY BE INSTALLED, WILL ACCOMMODATE THE WASTEWATER DISCHARGE FOR A RESIDENCE HAVING MORE THAN 4 BEDROOMS.
- A WELL MUST BE DRILLED WITH COMPLETION REPORT SUBMITTED TO THE HEALTH DEPARTMENT AND APPROVED PRIOR TO HEALTH APPROVAL OF A BUILDING PERMIT.
- THE EXISTING WELL INSIDE THE PROPOSED SEWAGE DISPOSAL AREA MUST BE PROPERLY ABANDONED AND SEALED BY A LICENSED WELL DRILLER. THE DRILLER MUST COORDINATE WITH THE HEALTH DEPARTMENT PRIOR TO ABANDONMENT SO THAT THE HEALTH DEPARTMENT MAY BE PRESENT ONSITE TO OVERSEE THE ABANDONMENT. AN ABANDONMENT REPORT MUST BE SUBMITTED TO THE HEALTH DEPARTMENT FOR REVIEW. THE SEWAGE DISPOSAL AREA WILL NOT BE APPROVED FOR USE AND THE HEALTH DEPARTMENT WILL NOT APPROVE A BUILDING PERMIT UNTIL THIS OCCURS.

SEPTIC SYSTEM TRENCH DESIGN SPECIFICATIONS

- INITIAL SYSTEM:**
- APPLICATION RATE: 0.8
 - EFFECTIVE AREA BEGINNING DEPTH: 4'
 - BOTTOM MAXIMUM DEPTH: 7'
- REPLACEMENT SYSTEM #1:**
- APPLICATION RATE: 0.8
 - EFFECTIVE AREA BEGINNING DEPTH: 4'
 - BOTTOM MAXIMUM DEPTH: 7' (TRENCHES R1-1 & R1-2)
- REPLACEMENT SYSTEM #2:**
- APPLICATION RATE: 1.2
 - EFFECTIVE AREA BEGINNING DEPTH: 3.5'
 - BOTTOM MAXIMUM DEPTH: 6'
- 1. DESIGN FLOW:**
- 4 BEDROOMS AT 150 GPD
 - 4X150 GPD = 600 GPD
- 2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:**
- DESIGN FLOW (600 GPD) / APPLICATION RATE (0.8) = 750 SF
- 3. SIDEWALL REDUCTION CREDIT:**
- TRENCH WIDTH (W) = 3'
 - TRENCH EFFECTIVE DEPTH (D) = 3'
 - $(W+2) / (W+1+2D) \times 100 = 50\%$
- 4. LINEAR LENGTH OF TRENCH REQUIRED:**
- DRAIN FIELD SQUARE FOOTAGE (750) X SIDEWALL REDUCTION CREDIT (50%) / TRENCH WIDTH (3) = 125'
- 5. LINEAR LENGTH OF TRENCH PROVIDED = 126'**
- THREE TRENCHES 42 LF/EACH
- 6. EXISTING GRADE:**
- TRENCH I-1: 577.2
 - TRENCH I-2: 576.4
 - TRENCH I-3: 575.5
- 7. INVERT:**
- TRENCH I-1: 573.2
 - TRENCH I-2: 572.4
 - TRENCH I-3: 571.5
- REPLACEMENT SYSTEM #1:**
- APPLICATION RATE: 0.8
 - EFFECTIVE AREA BEGINNING DEPTH: 4'
 - BOTTOM MAXIMUM DEPTH: 7'
- 1. DESIGN FLOW:**
- 4 BEDROOMS AT 150 GPD
 - 4X150 GPD = 600 GPD
- 2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:**
- DESIGN FLOW (600 GPD) / APPLICATION RATE (0.8) = 750 SF
- 3. SIDEWALL REDUCTION CREDIT:**
- TRENCH WIDTH (W) = 3'
 - TRENCH EFFECTIVE DEPTH (D) = 3'
 - $(W+2) / (W+1+2D) \times 100 = 50\%$
- 4. LINEAR LENGTH OF TRENCH REQUIRED:**
- DRAIN FIELD SQUARE FOOTAGE (750) X SIDEWALL REDUCTION CREDIT (50%) / TRENCH WIDTH (3) = 125'
 - ACTUAL TRENCH LENGTH REQUIRED = $(125' + 125' + 156.5') / 3 = 135.5'$
- 5. LINEAR LENGTH OF TRENCH PROVIDED = 136.5'**
- THREE TRENCHES 45.5 LF/EACH
- 6. EXISTING GRADE:**
- TRENCH R1-1: 575.5
 - TRENCH R1-2: 574.8
 - TRENCH R1-3: 571.5
- 7. INVERT:**
- TRENCH R1-1: 571.5
 - TRENCH R1-2: 570.8
- REPLACEMENT SYSTEM #2:**
- APPLICATION RATE: 1.2
 - EFFECTIVE AREA BEGINNING DEPTH: 3.5'
 - BOTTOM MAXIMUM DEPTH: 6'
- 1. DESIGN FLOW:**
- 4 BEDROOMS AT 150 GPD
 - 4X150 GPD = 600 GPD
- 2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:**
- DESIGN FLOW (600 GPD) / APPLICATION RATE (1.2) = 500 SF
- 3. SIDEWALL REDUCTION CREDIT:**
- TRENCH WIDTH (W) = 3'
 - TRENCH EFFECTIVE DEPTH (D) = 2.5'
 - $(W+2) / (W+1+2D) \times 100 = 55.56\%$
- 4. LINEAR LENGTH OF TRENCH REQUIRED:**
- DRAIN FIELD SQUARE FOOTAGE (500) X SIDEWALL REDUCTION CREDIT (55.56%) / TRENCH WIDTH (3) = 92.6'
- 5. LINEAR LENGTH OF TRENCH PROVIDED = 94'**
- TWO TRENCHES 47 LF/EACH
- 6. EXISTING GRADE:**
- TRENCH R2-1: 574.4
 - TRENCH R2-2: 573.3
 - TRENCH R2-3: 570.9
- 7. INVERT:**
- TRENCH R2-1: 569.8
 - TRENCH R2-2: 569.8



SHANABERGER & LANE
 8726 TOWN & COUNTRY BLVD.
 SUITE 201
 ELLICOTT CITY, MD 21043
 (410) 461-9563
 (410) 461-9693 fax
 home@shanlane.com

I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON REFLECTS WORK DONE BY ME OR UNDER MY DIRECT SUPERVISION USING AVAILABLE PUBLIC AND PRIVATE INFORMATION AND IS CORRECT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF.

Scott Shanaberger
 S. SCOTT SHANABERGER
 PROFESSIONAL LAND SURVEYOR #10849
 LICENSE EXPIRATION DATE 4/2/2018

APPROVED:
 FOR PRIVATE WATER AND SEWERAGE SYSTEMS

Maureen Rossignol
 COUNTY HEALTH OFFICER u.s. DATE 2/25/2018

OWNERS
 THOMAS & CAROL ALLNUTT, TRUSTEES
 5121 GRIFFITH ROAD
 LAYTONSVILLE, MD. 20882

PERC CERTIFICATION PLAT
ALLNUTT PROPERTY
 TITLE DEED: 3793/705
 TAX MAP 12, GRID 24, PARCEL 36
 4TH ELECTION DISTRICT, HOWARD COUNTY, MD.
 ZONED RC-DEO
 SCALE: 1" = 50' DATE: 6/13/2017
 REVISED 7/4/2017, 2/8/2018

GENERAL NOTES

- SUBJECT PROPERTY ZONED RC-DEO PER 10/06/13 COMPREHENSIVE ZONING PLAN.
- TOTAL AREA OF LOT = 2.9964 AC ±.
- PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
- THIS AREA DESIGNATES A PRIVATE SEWAGE AREA, OF AT LEAST 10,000 SF AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREAS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN-GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREAS HAVE BEEN FIELD LOCATED.
- DEED REFERENCE: LIBER 3793, FOLIO 705
- PROPERTY ADDRESS: 3610 WOODBINE ROAD, WOODBINE MARYLAND 21797
- THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY PERFORMED BY SHANABERGER & LANE IN OCTOBER 2020.
- THE TOPOGRAPHY SHOWN HEREON IS AT TWO FOOT INTERVALS AND IS BASED ON A FIELD RUN TOPOGRAPHY SURVEY PREPARED BY SHANABERGER & LANE IN OCTOBER 2020. OFFSITE TOPOGRAPHY IS BASED ON HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 2004.
- THE SOILS SHOWN HAVE BEEN TAKEN FROM THE NRCS WEB SOIL SURVEY WEBSITE.
- TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO HISTORIC STRUCTURES OR CEMETERIES WITHIN THE PROJECT BOUNDARY.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- A FIELD REVIEW PERFORMED BY SILL ENGINEERING GROUP, LLC, IN NOVEMBER, 2020 HAS CONFIRMED THAT NO WETLAND, AND NO STREAMS ARE PRESENT IN THE AREA DEVELOPMENT. NO WETLAND BUFFERS ARE PRESENT, AND TWO STREAM BUFFERS ARE PRESENT IN THE SOUTHWEST PORTION OF THE PROPERTY.
- EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- PER THE HOWARD COUNTY SUBDIVISION & LAND DEVELOPMENT REGULATIONS CODE FOR FOREST CONSERVATION SECTION 16.12020(D)(1)(a) THIS PROPERTY IS CONDITIONALLY EXEMPT FROM THE FOREST CONSERVATION ACT SINCE IT IS A SINGLE-LOT CLEARING LESS THAN 20,000 SQUARE FEET OF FOREST.
- FOREST DO EXIST FOR THIS SITE. IT IS NOT LOCATED IN A 100 YEAR FLOODPLAIN, AND THERE ARE NO STREAMS, OR WETLANDS ON SITE. TWO STREAM BUFFERS ARE ON SITE, AND NO WETLAND BUFFERS. THERE ARE STEEP SLOPES, THERE ARE NO CRITICAL HABITAT AREAS AND NO NON-TIDAL OR TIDAL WETLANDS ON SITE. NO RARE, THREATENED OR ENDANGERED SPECIES, OR THEIR HABITATS, WERE OBSERVED ON THE PROPERTY. NO HISTORIC ELEMENTS OR CEMETERIES ARE KNOWN TO OCCUR ON THE PROPERTY. THE SITE IS LOCATED IN THE BRIGHTON DAM WATERSHED, MD 02131108. THE CLOSEST TRIBUTARY IS CABIN BRANCH, CLASSIFIED AS USE CLASS III-P. STORMWATER MANAGEMENT OBLIGATIONS ARE REQUIRED FOR THIS PROPERTY AND WILL BE MET BY FIVE (5) DRYWELLS (M-5) AND SHEET FLOW TO THE CONSERVATION AREA (N-3) INCLUDING A LEVEL SPREADER. OBLIGATIONS PROPOSED HAVE BEEN APPROVED UNDER THE SIMPLIFIED ENVIRONMENTAL CONCEPT PLAN BY HOWARD COUNTY, DEPARTMENT OF PLANNING AND ZONING, ON DECEMBER 1, 2020.

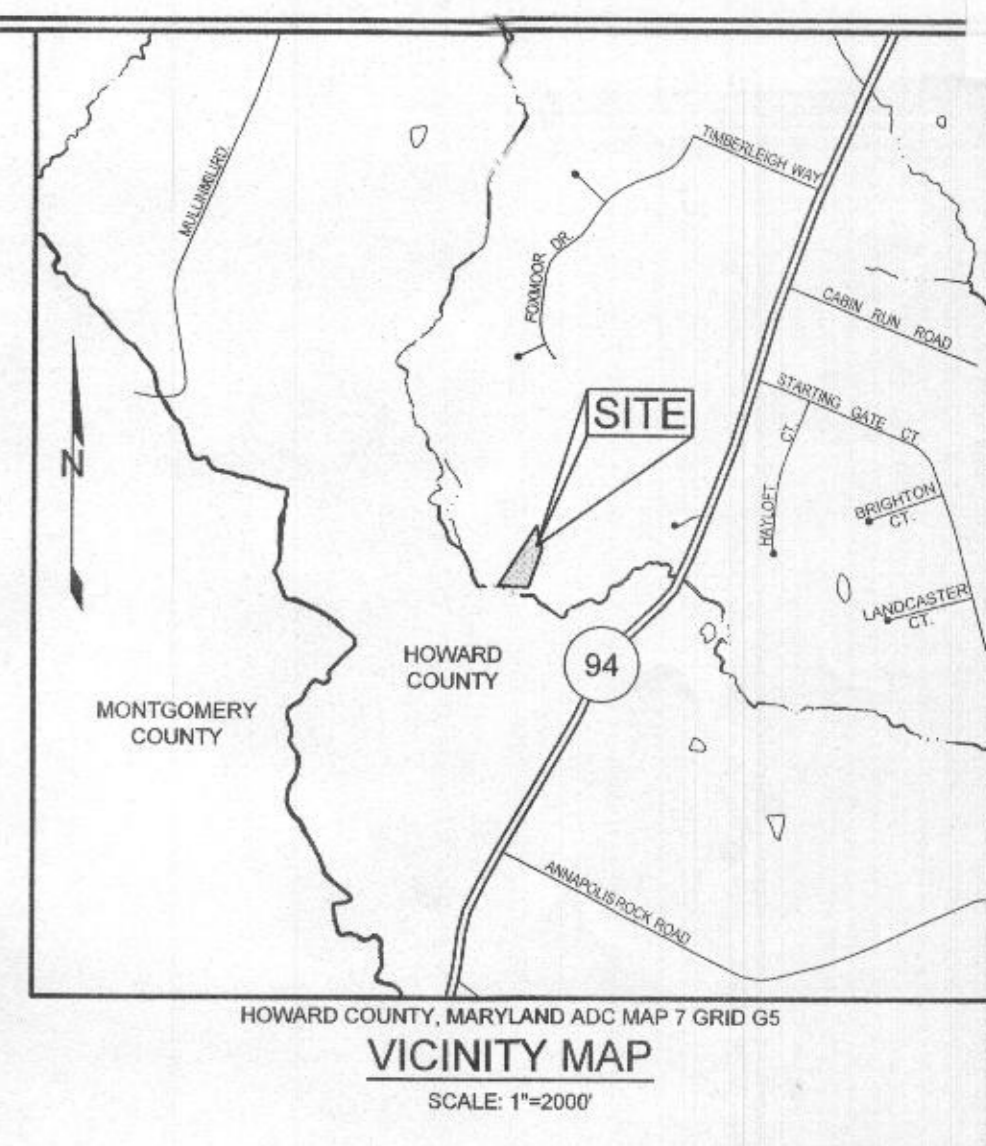
PLOT PLAN

RIDGEWAY PROPERTY

HOWARD COUNTY, MARYLAND

LEGEND

- EXISTING GIS CONTOUR: --- 382
- EXISTING FIELD RUN CONTOUR: - - - 382
- PROPOSED CONTOUR: [382]
- SOIL BOUNDARY: --- X ---
- EXISTING FENCE: --- X ---
- EXISTING TREELINE: --- X ---
- PROPOSED TREELINE: --- X ---
- EXISTING SPOT ELEVATION: 382.3
- PROPOSED SPOT ELEVATION: +82.53
- STREAM BUFFER: SB
- ROAD CENTERLINE: --- C ---
- PERCOLATION TEST HOLE, PASSED: ⊕
- PERCOLATION TEST HOLE, FAILED: ⊕
- PROPOSED WELL AREA: []



BENCHMARKS

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
12IA	589,614.926	1,275,709.962	564.028	104.0' SOUTH WEST OF C&P PEDESTAL 119, 16.0' SOUTH EAST OF WOODBINE ROAD CENTERLINE AND 4.7' NORTH EAST OF POLE #E F47650.
19CC	587,637.676	1,276,164.810	570.787	13.0' SOUTH EAST OF FARM ROAD, 35.7' NORTH EAST OF POLE C&P 5, 26.0' NORTH EAST OF GUY WIRE AND 3.0' FROM THE EDGE OF PAVING.

SITE ANALYSIS DATA SHEET

ENVIRONMENTAL AREA	SIZE OR USE
TOTAL PROJECT AREA	2.9964 AC ±
ROW TO BE DEDICATED	N/A
PROPOSED PROJECT AREA	2.9964 AC ±
LIMIT OF DISTURBANCE	0.8345 AC ±
GREEN OPEN AREA (LAWN)	0.9223 AC ±
PROPOSED IMPERVIOUS AREA	0.1423 AC ±
PROPOSED SITE USES	RESIDENTIAL
WETLANDS	0 AC ±
WETLAND BUFFERS	0 AC ±
STREAM BUFFERS *	0.4716 AC ±
FLOODPLAINS	0 AC ±
FLOODPLAIN BUFFERS	0 AC ±
EXISTING FOREST	2.5123 AC ±
SLOPES 15%-24.99% *	0.5417 AC ±
SLOPES GREATER THAN 25%	0.4135 AC ±
HIGHLY ERODIBLE SOILS	0.9552 AC ± (1)

- * NOTES:
- SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY.
 - HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.
 - THE AREA OF STREAM BUFFER IS NOT LOCATED WITHIN THE AREA OF DEVELOPMENT.

STORMWATER MANAGEMENT SUMMARY TABLE

LOT	P ₀		ESDV		RECHARGE		SWM PRACTICES
	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	
1	1.5"	1.54"	841 CF	451 CF	1,486 SF	1,486 SF	DRYWELL 5

STORMWATER MANAGEMENT PRACTICES

PARCEL NUMBER	ADDRESS	DRY WELLS M-5 (NUMBER)	MICRO-BIOTRETENTION M-6 (NUMBER)
36	3610 WOODBINE ROAD	#1	N/A
36	3610 WOODBINE ROAD	#2	N/A
36	3610 WOODBINE ROAD	#3	N/A
36	3610 WOODBINE ROAD	#4	N/A
36	3610 WOODBINE ROAD	#5	N/A

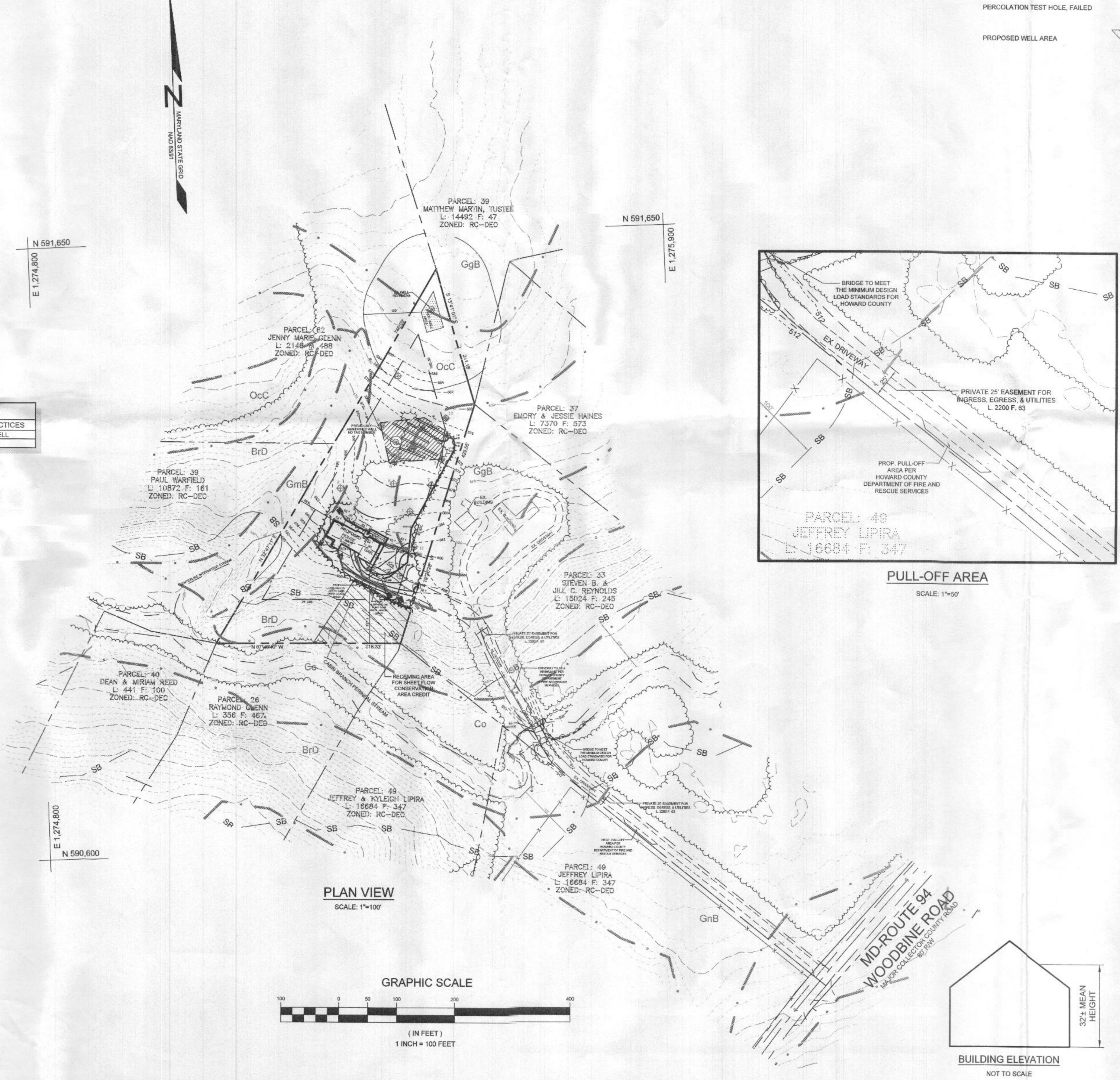
STORMWATER MANAGEMENT NOTES & DESIGN NARRATIVE

- BELOW IS A LIST TO DESCRIBE THE STORMWATER MANAGEMENT REQUIREMENTS AND ACHIEVEMENTS FOR THE SITE PER THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I AND II, AS AMENDED BY THE STORMWATER MANAGEMENT ACT OF 2007.
- ENVIRONMENTALLY SENSITIVE AREAS HAVE BEEN AVOIDED WHERE POSSIBLE. THE AREA OF DEVELOPMENT WAS DESIGNED TO AVOID DISTURBING AREAS OF STEEP SLOPES. NO STREAMS OR WETLANDS EXIST WITHIN THE AREA OF DEVELOPMENT.
 - TO THE GREATEST EXTENT PRACTICABLE THE NATURAL FLOW PATTERNS OF THE SITE HAVE BEEN MAINTAINED.
 - IMPERVIOUS AREAS HAVE BEEN REDUCED BY POSITIONING THE BUILDING AS CLOSE TO THE USE-IN-COMMON DRIVEWAY AS THE SETBACKS AND GRADES ALLOW.
 - A STABILIZED CONSTRUCTION ENTRANCE AND SUPER SILT FENCES ARE USED AS SEDIMENT AND EROSION CONTROL.
 - THE STORMWATER MANAGEMENT OBLIGATIONS FOR THIS PARCEL WILL BE MET BY THE USE OF FIVE DRYWELLS (M-5) AND SHEET FLOW TO THE BUFFER.
 - ACCORDING TO THE DEFINITION IN THE HOWARD COUNTY CONSERVATION MANUAL, JUNE 1999, NO FOREST EXISTS WITHIN THE AREA OF DEVELOPMENT.

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	GROUP	K ¹ FACTOR
Bd	BRINKLOW CHANNERY LOAM, 15 TO 25 PERCENT SLOPES	C	0.32
Co	CODORUS AND HATBORO SILT LOAMS, 0 TO 3 PERCENT SLOPES	C	0.55
GgB	GLENELG LOAMS, 3 TO 8 PERCENT SLOPES	B	0.37
GmB	GLENEVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	0.55
OcC	OCOCOJAN LOAM, 8 TO 15 PERCENT SLOPES	B	0.37

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SHEET INDEX

SHEET NO.	DESCRIPTION
1	REVISED COVER SHEET
2	REVISED PLOT PLAN

OWNER
THOMAS & CAROL ALLNUT
5121 GRIFFITH ROAD
LAYTONSVILLE, MD 20882

CONTRACT PURCHASER
BRIAN & ANDREA RIDGEWAY
723 WOODBINE CROSSING ROAD
MOUNT AIRY, MD 21771
BRIAN.RIDGEWAY@GMAIL.COM
(443)-569-9241

DEVELOPER
CUMBERLAND DEVELOPMENT CUSTOM HOMES
4132 SALEM BOTTOM ROAD
WESTMINSTER, MD 21157
CUMBERLANDCUSTOMHOMES.COM
C/O CURTIS CUMBERLAND

REVISED COVER SHEET
RIDGEWAY PROPERTY
3610 WOODBINE ROAD, WOODBINE
ZONED: RC-DEO
PARCEL 36

TAX MAP 12 GRID 24
4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

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

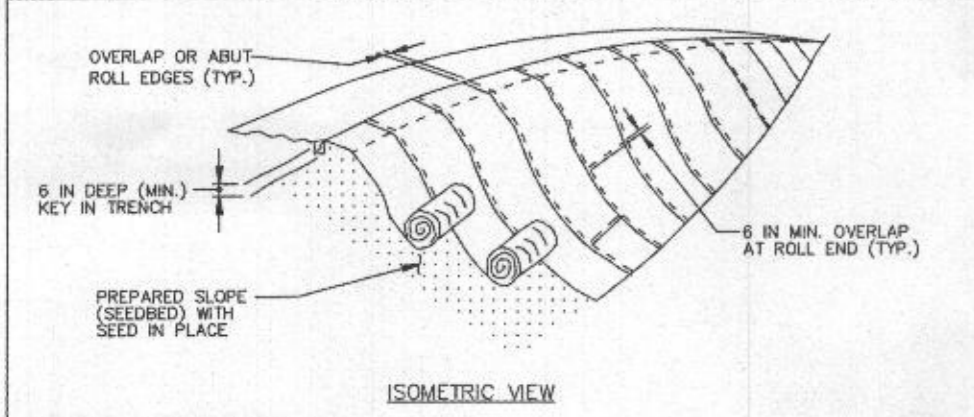
DESIGN BY: PS
DRAWN BY: TB
CHECKED BY: PS
SCALE: AS SHOWN
DATE: APRIL 5, 2022
PROJECT #: 20-048
SHEET #: 1 of 2

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 26, 2023.

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
BrD	BRINKLOW CHANNERY LOAM, 15 TO 25 PERCENT SLOPES	C	0.32
Co	COODRUS AND HATBORO SILT LOAMS, 0 TO 3 PERCENT SLOPES	C	0.55
GgB	GLENELG LOAMS, 3 TO 8 PERCENT SLOPES	B	0.37
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C/D	0.55
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DETAIL B-4-B TEMPORARY SOIL STABILIZATION MATTING SLOPE APPLICATION



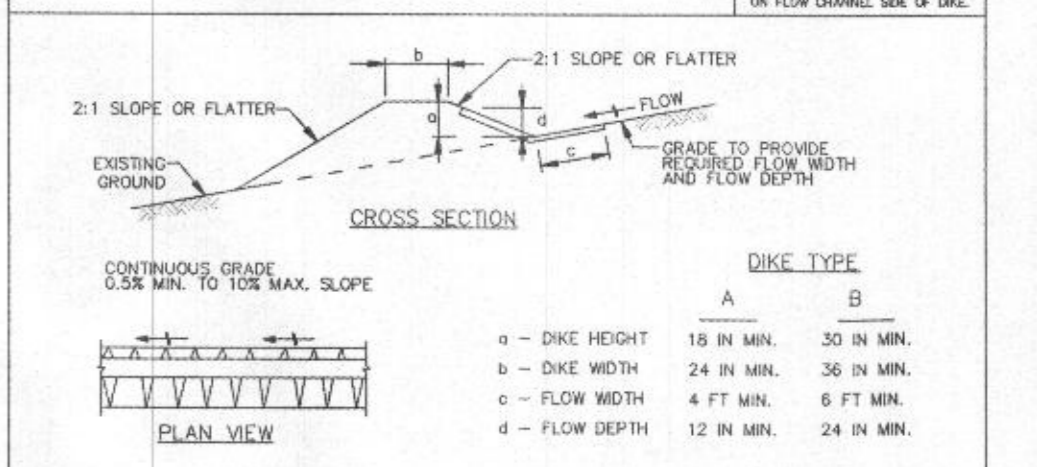
CONSTRUCTION SPECIFICATIONS

- USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
- USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOULDER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-HARMFUL TO THE SKIN IF PRESENT. NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2-1/2 INCHES AND SUFFICIENTLY BOUNDED OR SEAM ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
- SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. 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 1/2 INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 6 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1/2 INCH IN CROSS SECTION, AND WIDELY SHARPE AT THE BOTTOM.
- PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDING 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 & SEDIMENT CONTROL PLAN.
- UNROLL MATTING DOWNSLOPE. LAY MAT SMOOTHLY AND FIRMLY UPON THE SEEDING SURFACE. AVOID STRETCHING THE MATTING.
- OVERLAP OR ABUT ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSLOPE MAT OVERLAPPING ON TOP OF THE DOWNSLOPE MAT.
- KEY IN THE UPSLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAMPING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
- STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
- 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 AND WATER MANAGEMENT ADMINISTRATION
 B-39

LEGEND			
EXISTING GIS CONTOUR	--- 382	STREAM BUFFER	SB
EXISTING FIELD RUN CONTOUR	--- 382	PERCOLATION TEST HOLE, FAILED	⊕
PROPOSED CONTOUR	--- 382	PERCOLATION TEST HOLE, PASSED	⊖
SOIL BOUNDARY	--- 382	PROPOSED WELL AREA	⊙
EXISTING FENCE	X	MODERATE SLOPES, 15-24.99%	▨
EXISTING TREELINE	~ ~ ~	STEEP SLOPES, 25% OR GREATER	▩
PROPOSED TREELINE	~ ~ ~	TEMPORARY SOIL STABILIZATION MATTING	▧
EXISTING SPOT ELEVATION	80.3	EARTH DIKE	▬
PROPOSED SPOT ELEVATION	+82.53		
SUPER SILT FENCE	SSF		
LIMIT OF DISTURBANCE	LOD		
STABILIZED CONSTRUCTION ENTRANCE	⊠		

DETAIL C-1 EARTH DIKE



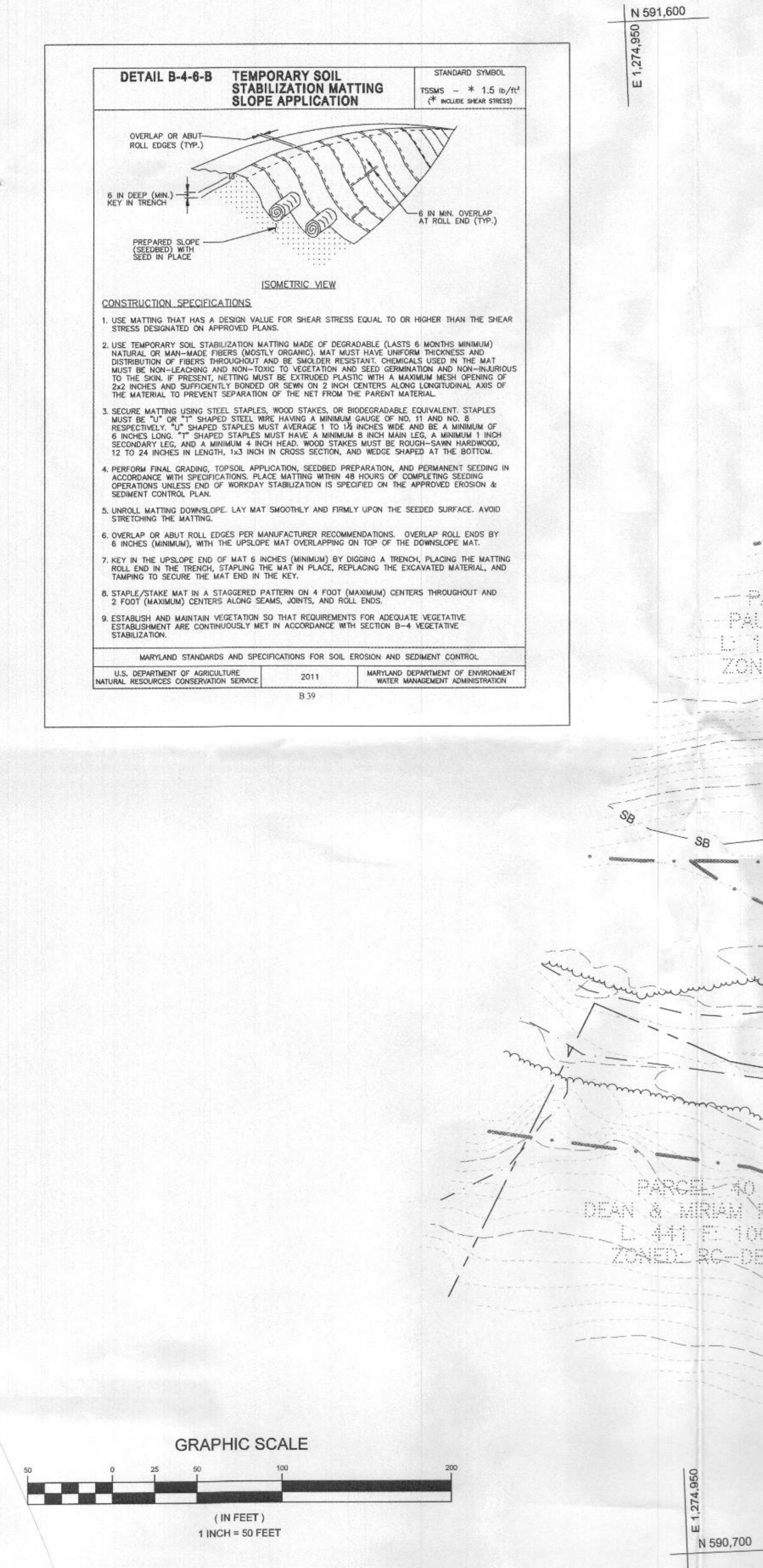
FLOW CHANNEL STABILIZATION

- A-1 SEED WITH STRAW MULCH AND TACK (NOT ALLOWED FOR CLEAR WATER DIVERSION)
- A-2/B-2 SEED WITH SOIL STABILIZATION MATTING OR LIME WITH SOO.
- A-3/B-3 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE PRESSED INTO SOIL. A MINIMUM OF 7 INCHES AND FLUSH WITH GROUND.

CONSTRUCTION SPECIFICATIONS

- REMOVE AND DISPOSE OF ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SO AS NOT TO INTERFERE WITH PROPER FUNCTION OF EARTHDIKE.
- EXCAVATE OR SHAPE EARTH DIKE TO LINE, GRADE, AND CROSS SECTION AS SPECIFIED. BANK PROJECTIONS OR OTHER IRREGULARITIES ARE NOT ALLOWED.
- COMPACT FILL.
- CONSTRUCT FLOW CHANNEL ON AN UNINTERRUPTED, CONTINUOUS GRADE, ADJUSTING THE LOCATION DUE TO FIELD CONDITIONS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.
- PROVIDE OUTLET PROTECTION AS REQUIRED ON APPROVED PLAN.
- STABILIZE EARTH DIKE WITHIN THREE DAYS OF INSTALLATION. STABILIZED FLOW CHANNEL FOR CLEAR WATER DIVERSION WITHIN 24 HOURS OF INSTALLATION.
- MAINTAIN LINE, GRADE, AND CROSS SECTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS, AND MAINTAIN POSITIVE DRAINAGE. KEEP EARTH DIKE AND FLANK OF DISCHARGE FREE OF EROSION, AND CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.
- UPON REMOVAL OF EARTH DIKE, GRADE AREA FLUSH WITH EXISTING GROUND. WITHIN 24 HOURS OF REMOVAL STABILIZE DISTURBED AREA WITH TOPSOIL, SEED, AND MULCH, ON AS SPECIFIED ON APPROVED PLAN.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, 2011
 MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION
 C-5



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DESIGN BY: PS
 DRAWN BY: TB
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: APRIL 5, 2022
 PROJECT #: 20-048
 SHEET #: 2 of 2

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. 33053, EXPIRATION DATE JUNE 28, 2023.