# **GENERAL NOTES**

- SUBJECT PROPERTY ZONED RR-DEO PER 10/06/2013 COMPREHENSIVE ZONING PLAN. SUBJECT PROPERTY ZONED BR BUSINESS RURAL PER 01/04/2018 AND 03/14/2018 ZONING CASE ZB-1117M.
- PROPERTY ADDRESS: 12064 HALL SHOP ROAD
- TOTAL AREA OF PROPERTY: 1.04 AC ±
- REFERENCE: L. 11653 F. 284
- PREVIOUS HOWARD COUNTY FILE NUMBERS: ECP-20-013, ZB-1117M, WP-24-052 PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE; THE SITE IS NOT LOCATED WITHIN THE PLANNED
- SERVICE AREA. THIS AREA DESIGNATES A PRIVATE SEWAGE AREA. AS REQUIRED BY THE MARYI AND STATE DEPARTMENT OF TH ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03), IMPROVEMENTS OF ANY NATURE IN THIS AREA AR RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO T
- PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY PERFORMED BY SHANABERGER & ADJOINING PROPERTY INFORMATION AND PROPERTY LINES WERE UPDATED BY SHANABERGER & LANE IN OCTOBER, 202 THE TOPOGRAPHY SHOWN HEREON IS AT TWO FOOT INTERVALS AND IS BASED ON A FIELD RUN TOPOGRAPHY SURVEY PREPARED BY SHANABERGER & LANE IN MAY 2016. OFFSITE TOPOGRAPHY IS BASED ON HOWARD COUNTY AERI/
- **TOPOGRAPHY FLOWN IN 2004** THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED ON
- MARYLAND STATE PLAN COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NUMBERS 41AC AND 35GMA WERE USED FOR THIS PROJECT THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM O
- DEPARTMENT OF THE ENVIRONMENT 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 OF PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS HAVE BEEN FIELD LOCATED NO FLOODPLAINS, WETLANDS, NOR WETLAND BUFFERS ARE PRESENT ON SITE, A STREAM PASSES RCCP ON THE NARROW PIPESTEM PORTION OF OUR PROPERTY. THE ASSOCIATED STREAM BUFFER IS LOCATED ON OUR
- PROPERTY BUT NEITHER THE STREAM OR ITS BUFFER ARE LOCATED WITHIN OUR AREA OF DEVELOPMENT THE PROPOSED BUILDING IS A COMMERCIAL OFFICE BUILDING. TWO SHEDS FOR STORAGE SPACE, AND PARKING FOR TH BUSINESS'S COMMERCIAL VEHICLES. THE OFFICE BUILDING WILL HOUSE SIX EMPLOYEES AND ONE BATHROOM. THE
- MAJORITY OF THE EMPLOYEES WORK OFF-SITE DURING THE DAY. THESE PROPOSED COVERED STRUCTURES MAKE UP 2.7% OF THE PROPERTY 15. PROPOSED COMMERCIAL SPACE IS NOT RETAIL AND WILL NOT HAVE CUSTOMERS ON SIT
- 16. PARKING: REQUIRED

MISS UTILITY

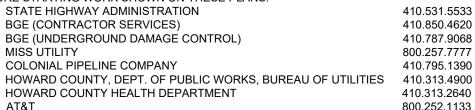
AT&T

- GENERAL OFFICE: 3.3 SPACES PER 1,000 SF OF OFFICE SPACE (880 SF)
- TOTAL REQUIRED: 3 PROVIDED: 5 PARKING SPACES (INCLUDING 1 HANDICAP SPACE) AND 3 COMMERCIAL VEHICLE PARKING SPACES THIS PROPERTY IS SUBJECT TO THE HOWARD COUNTY ZONING CASE ZB-1117M TO ALLOW THE USE OF THE BUSINESS RURAL ZONING DISTRICT AND WAS APPROVED ON JANUARY 4, 2018 AND MARCH 14, 2018 WITH THE FOLLOWING CONDITIONS: THAT PARKING AND STORAGE OF VEHICLES AND EQUIPMENT USED IN CONNECTION WITH THE USE SHALL BE CONFINED T
- THE PAVED AREAS, AS INDICATED ON THE PDP; AND THAT THE NORMAL BUSINESS HOURS OF THE USE UNDER THE BR ZONING SHALL BE MONDAY THROUGH FRIDAY, 7AM TO 7PM: AND
- THAT THE HEIGHT LIMIT OF THE PROPOSED 2-STORY OFFICE BUILDING AS SHOWN ON THE PDP SHALL BE

18. THE CONTRACTORS SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS HESE PLANS:

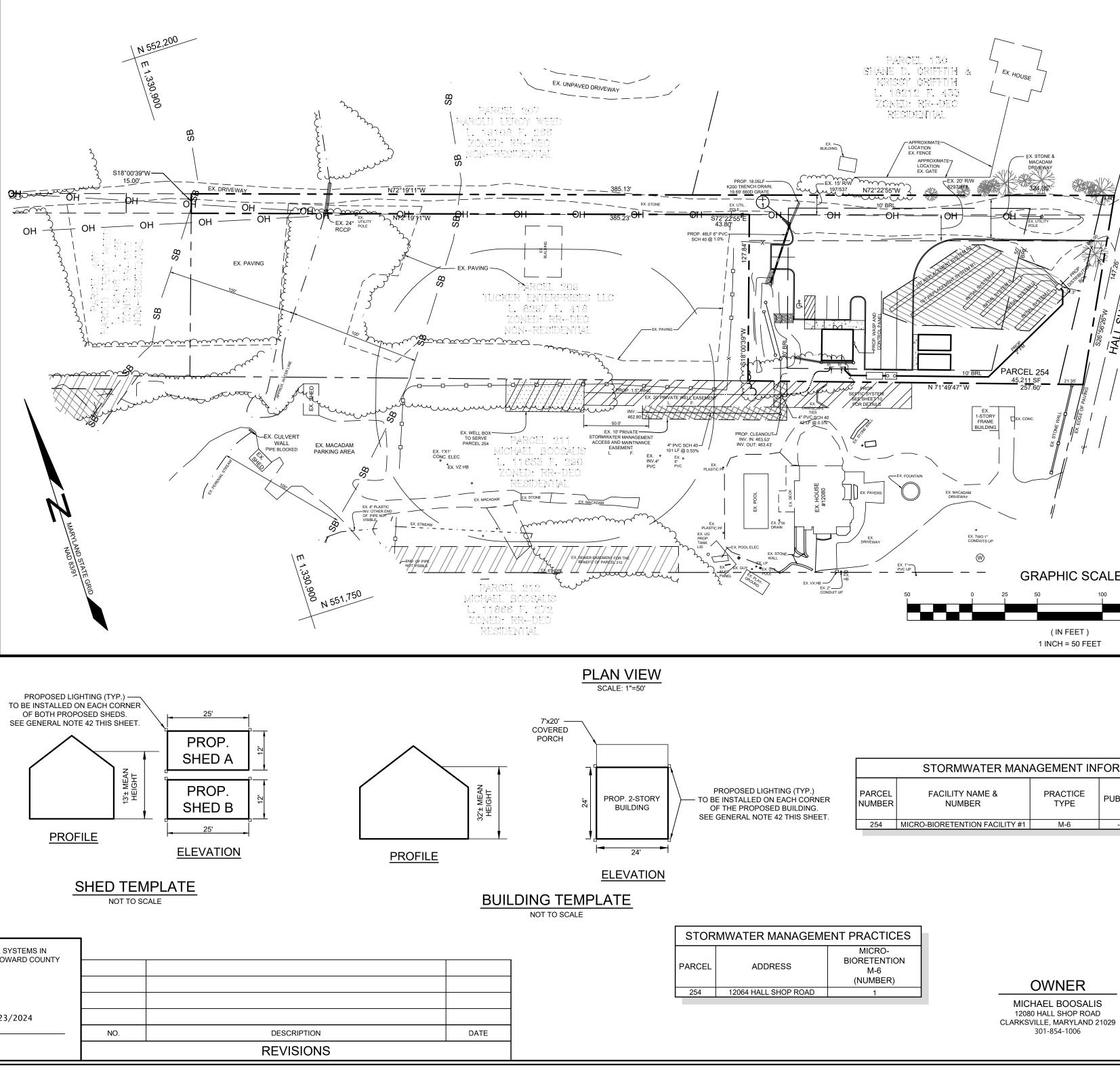
FORE STARTING WORK SHOWN ON T	ŀ
STATE HIGHWAY ADMINISTRATIO	Ν
BGE (CONTRACTOR SERVICES)	

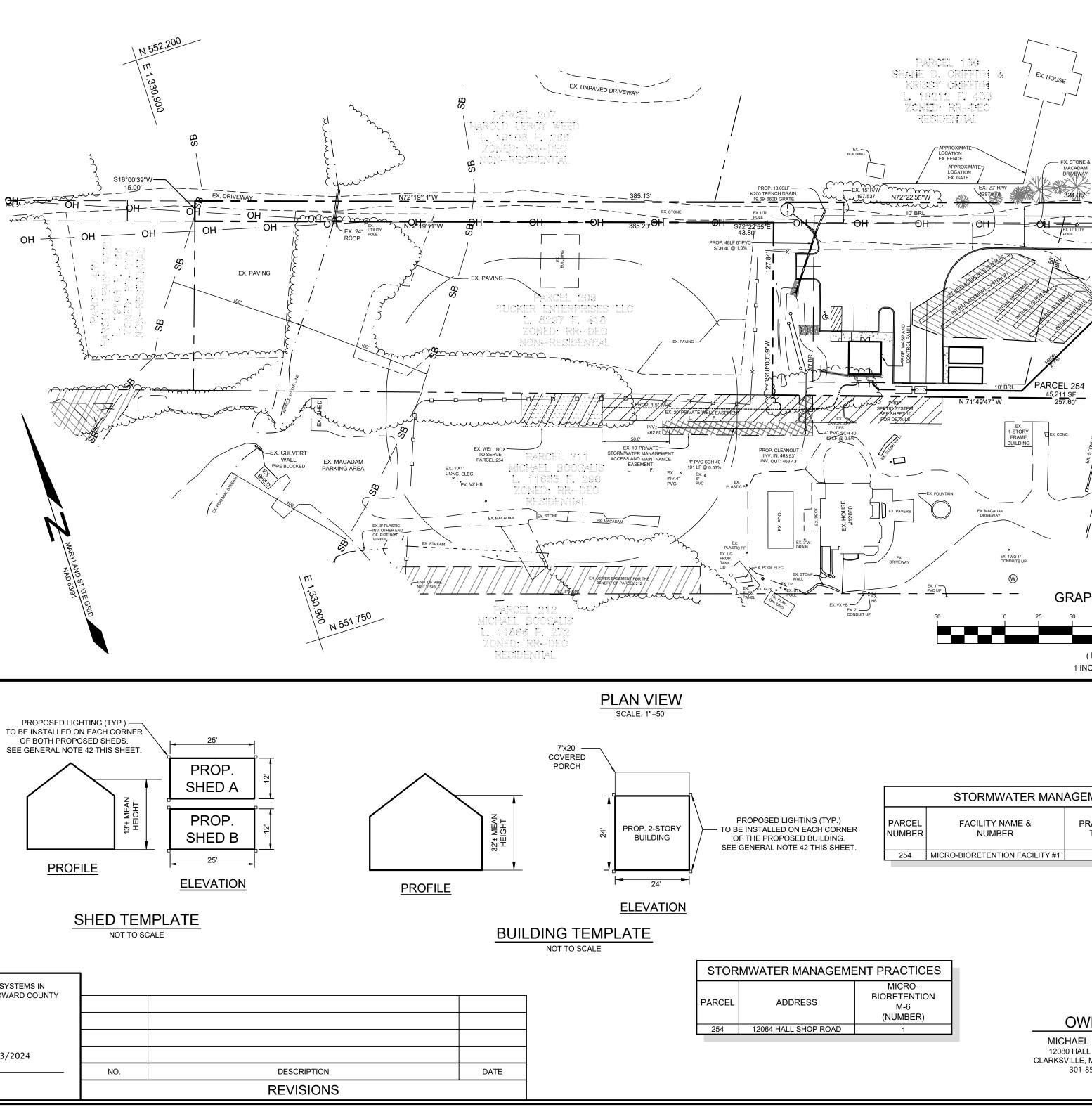
COLONIAL PIPELINE COMPAN



- 800 743 0033/410 224 921 VFRIZON TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO CEMETERIES WITHIN THE PROJECT BOUNDARY
- 20. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK
- BEING DON ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS EXPENSE
- 22. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) DAYS PRIOR TO THE START OF WORK
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF ADDITION TO MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE PROJECT IS IN CONFORMANCE WITH THE CURRENT HOWARD COUNTY STANDARDS. NO HAVE BEEN SUBMITTE OR APPROVED UNDER THIS PLAN
- 5. ALL HDPE PIPE SPECIFICATIONS. AND INSTALLATIONS SHALL MEET AASHTO M-252 TYPE S. M-294 TYPE S AND ASTM D232 RESPECTIVELY 3 SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH TH RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER. DRIVEWAY PAVING TO BE HOWARD COUNTY STANDARD
- P-2 PAVING SECTION. (SEE COVER SHEET). GEOTECHNICAL ENGINEER TO CONFIRM ACCESSIBILITY OF PROPOSED PAVING SECTION BASED ON SOIL TEST, PRIOR TO CONSTRUCTION ALL TRAFFIC CONTROL DEVICES. MARKINGS AND SIGNINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF TH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
- EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, AND OTHER AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTORS INFORMATION. CONTRACTORS SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND T MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTORS OPERATION SHALL BE REPAIRED
- IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. 29. STORMWATER MANAGEMENT OBLIGATIONS FOR THIS SITE WILL BE MET BY ONE BIORETENTION FACILITY (M-6) FOR THE TREATMENT OF THE PARKING AREA AND PROPOSED BUILDINGS. 0. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN
- THE LIMITS OF WETLANDS, STREAM(S), OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS 1. A FOREST STAND DELINEATION WAS COMPLETED ON APRIL 24, 2020 AND WAS APPROVED UNDER ECP-20-013. 2. PER SECTION 16.1200 OF THE HOWARD COUNTY CODE. THIS PLAN IS SUBJECT TO FOREST CONSERVATION OBLIGATIONS. FOR
- THIS PROJECT. THE REFORESTATION/AFFORESTATION NET TRACT AREA OBLIGATION IS BASED ON THE HOWARD COUNTY FOREST CONSERVATION WORKSHEET AND WILL BE 0.10 ACRES OR 4,356 SQ FT. THE OBLIGATION HAS BEEN MET BY OFFSITE FOREST AFFORESTATION OUTSIDE THE 12-DIGIT WATERSHED, AS THERE ARE NO BANKS WITHIN THE WATERSHED. THE ROSHAN PROPERTY, SDP-16-041 (S1) HAS BEEN USED. A REDLINE REQUEST WAS SUBMITTED AND APPROVED FOR THE OFFSITE BANK IN FEBRUARY 2022
- . FIELD OBSERVATIONS FOR THIS SITE WERE COMPLETED IN APRIL 2017, NOVEMBER 2017, AND OCTOBER 2020 AND NO WETLANDS WERE FOUND ONSITE. A STREAM CROSSES THE NORTH-WESTERN PORTION OF THE PIPESTEM AND IS SHOWN ON THE PLANS. NO PROPOSED DEVELOPMENT WILL IMPACT THE STREAM AND ITS BUFFER.
- APPROVAL OF THIS SDP DOES NOT CHANGE OR REMOVE LEGAL ACCESS FROM ANY ADJACENT PARCELS OR LOTS. 5. THE WELL MUST BE DRILLED, AND COMPLETION REPORT APPROVED BY THE HEALTH DEPARTMENT PRIOR TO HEALTH DEPARTMENT APPROVAL OF THE BUILDING PERMIT.
- 6. A GROUNDWATER APPROPRIATIONS PERMIT MUST BE APPROVED BY THE MARYLAND DEPARTMENT OF ENVIRONMENTAL PRIOR TO HEALTH DEPARTMENT ISSUANCE OF A WELL PERMIT. MARYLAND DEPARTMENT OF THE ENVIRONMENT HAS APPROVED A VARIANCE PER CODE OF MARYLAND ANNOTATED
- REGULATIONS [COMAR, 26.04.02.05 B.(2)] TO ALLOW THE ONSITE SEWAGE DISPOSAL SYSTEM PROPOSED ON THIS PLAN TO BE UPGRADIENT OF THE WELL ZONE PROPOSED ON THIS PLAN SUBJECT TO THE FOLLOWING CONDITIONS • AN ADVANCED PRE-TREATMENT UNIT (A BAT UNIT) MUST BE INCLUDED AS A COMPONENT IN THE SEPTIC SYSTEM FOR THE PROPOSED NEW STRUCTURE ON PARCEL 254.
- THE OWNER OF THE BAT UNIT ON PARCEL 254 MUST HAVE A SERVICE CONTRACT FOR THE BAT UNIT WITH A MDE CERTIFIED SERVICE PROVIDER.
- THE WELL MUST BE AT LEAST 200 FEET DISTANCE FROM ANY UPGRADIENT SEPTIC SYSTEM TRENCH, DRY WELL, OR SAND MOUND
- THE WELL MUST BE INSTALLED TO MINIMUM DEPTH OF 50 FEET, OR AT LEAST 10 FEET INTO COMPETENT BEDROCK, WHICHEVER IS DEEPER. • THE WELL MUST BE INSTALLED AS STEEL CASING
- 8. THE OFFSITE EASEMENT AGREEMENT BETWEEN BETWEEN THE PROPERTY OWNERS GRANTING EXCLUSIVE RIGHTS TO THE EASEMENT AREA FOR WELL DEVELOPMENT, MAINTENANCE, AND REPAIR MUST BE SIGNED BY BOTH OWNERS AND LAND RECORDS OF BOTH PROPERTIES PRIOR TO HEALTH DEPARTMENT ISSUANCE OF A WELL PERMIT. . AN OPERATIONS AND MAINTENANCE AGREEMENT FOR THE BAT UNIT MUST BE SIGNED BY THE OWNER AND THE HEALTH DEPARTMENT AND RECORDED IN LAND RECORDS OF THE PROPERTY PRIOR TO HEALTH DEPARTMENT ISSUANCE OF THE
- SEPTIC PERMIT 9. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISION OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. THE DEVELOPER SHALL PLANT THE REQUIRED PERIMETER LANDSCAPING TREES AND THE ONE REQUIRED PARKING LOT TREE. EIGHTEEN (18) SHADE TREES, TWENTY THREE (23) EVERGREEN TREES, AND SEVENTY (70) SHRUBS. 18 X \$300.00, 23 X \$150.00 AND 70 X \$30.00. ADDITIONALLY, ONE (1) PARKING LOT TREE SHALL BE INCLUDED AT \$300.00. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING WILL BE POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$11,250.00.
- 40. FOR THIS PROJECT, A SPEED STUDY, AN ADEQUATE ROAD FACILITIES TEST EVALUATION AND A ROADWAY AUDIT WERE PREPARED BY MARS GROUP, INC. DATED NOVEMBER OF 2021. 1. FOR THIS PROJECT, THE EXISTING 10' PRIVATE STORMWATER MANAGEMENT ACCESS AND MAINTENANCE EASEMENT WILL CROSS THE EXISTING 20' PRIVATE WELL EASEMENT. THE RIGHT TO INSTALL, MAINTAIN AND REPLACE THE WELL LINE WILL
- TAKE PRIORITY IN THE AREA WHERE THE TWO EASEMENTS OVERLAP. 2. ALL EXTERIOR LIGHT FIXTURES SHALL BE ORIENTED TO DIRECT LIGHT INWARDS AND DOWNWARDS ON-SITE FROM ALL ADJOINING PUBLIC ROADS AND ADJACENT RESIDENTIAL PROPERTIES IN ACCORDANCE WITH SECTION 134 OF THE HOWARD
- COUNTY ZONING REGULATIONS. LIGHT TRESPASS ONTO ANY ADJACENT RESIDENTIAL PROPERTY SHALL BE LIMITED TO 0.1 FOOT CANDLES. ALL LIGHT FIXTURES WILL BE MOUNTED TO THE BUILDING CORNERS. SEE SHED AND BUILDING TEMPLATE FOR LOCATIONS 43. IN MAY OF 2022, A DESIGN MANUAL WAIVER WAS BEEN APPROVED TO WAIVE DESIGN MANUAL, VOLUME IV, STANDARD DETAIL
- R-1.11 WHICH PROVIDES THE TYPICAL SECTION FOR A COUNTRY ROAD. IN LIEU OF PROVIDING THE TYPICAL SECTION ALONG THE FRONTAGE OF THE PROPERTY THE REQUEST IS TO PAY A FEE OF \$19,800.00. 4. ON JANUARY 24, 2024 THE DEPARTMENT OF PLANNING AND ZONING CONSIDERED AND APPROVED ALTERNATIVE COMPLIANCE
- WP-24-052 WITH RESPECT TO SECTION 16.156(I) AND SECTION 16.156(m) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS TO REACTIVATE THE PROJECT FOR THE COMPLETION OF THE DEVELOPER'S AGREEMENT, PAYMENT OF FEES, AND SUBMISSION OF THE SITE DEVELOPMENT PLAN MYLAR ORIGINALS.

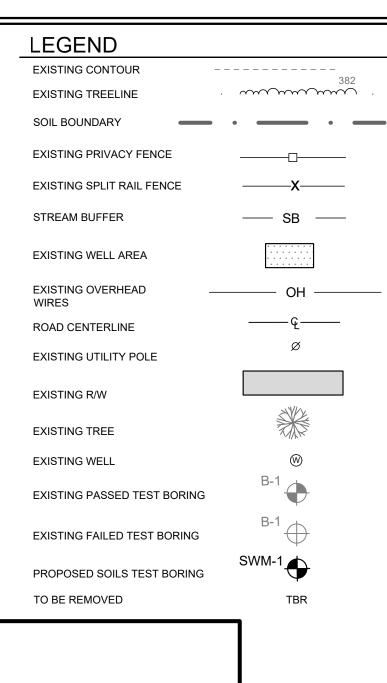
	TTEAN MITEAN ONIGINALS.				
APPROVED: HOWARD COUNTY DEPARTMENT OF PL	ANNING AND ZONING	APPROVED : FOR PRIVATE WATER AND PRIVA ACCORDANCE WITH THE MASTER			
(HID Edmondson	5/14/2024				-
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE				
DocuSigned by:	5/15/2024	Development have			
	DATE	DocuSigned by:	E /22 /2024		
	5/23/2024	Michael Davis	5/23/2024		
lynda Eisenberg	3/23/2024	COUNTY HEALTH OFFICER	DATE	NO.	
DIRECTOR	DATE	HOWARD COUNTY HEALTH DEPARTMENT	2,2		

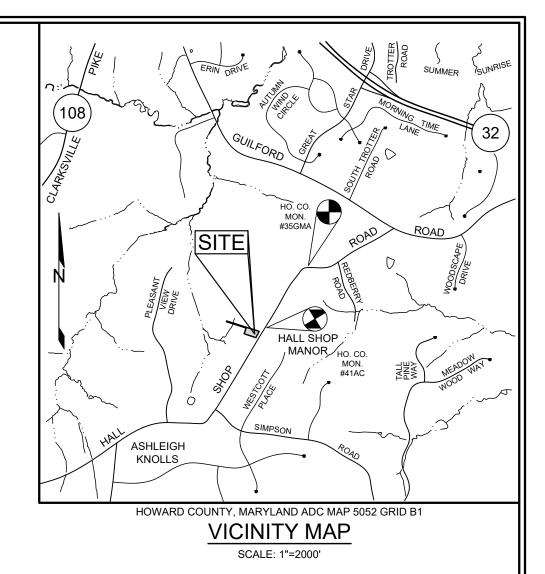






# SITE DEVELOPMENT PLAN **BOOSALIS PROPERTY** HOWARD COUNTY, MARYLAND





	BENCHMARKS								
NUMBER NORTHING EASTING ELEVATION DESCRIPTION									
41AC	551,969.539	1,331,695.401	488.323	48.1' EAST OF THE MAILBOX ALONG HALL SHOP ROAD;111' SOUTHWEST FROM BGE POLE 112410; 135' NORTHEAST FROM BGE POLE 112411.					
35GMA	550,232.069	1,330,624.258	494.779	27.1' NORTHEAST FROM G&E POLE112410, 54.6' SOUTHWEST FROM INTERSECTION OF HALL SHOP RD AND SIMPSON RD; 41.2' EAST OF POST AND BOARD FENCE ENDING.					

# SITE ANALYSIS DATA SHEET

ENVIRONMENTAL AREA	SIZE OR USE
TOTAL PROJECT AREA	1.0379 AC ±
ROW TO BE DEDICATED	0.054 AC
PROPOSED PROJECT AREA	1.0379 AC ±
LIMIT OF DISTURBANCE	0.8250 AC ±
GREEN OPEN AREA (LAWN)	0.6081 AC ±
PROPOSED IMPERVIOUS AREA	0.3181 AC ±
STREAM BUFFER (3)	0.0703 AC ±
PROPOSED SITE USES	COMMERCIAL OFFICE
WETLANDS	0 AC ±
WETLAND BUFFERS	0 AC ±
FLOODPLAINS	0 AC ±
FLOODPLAIN BUFFERS	0 AC ±
EXISTING FOREST	0 AC ±
SLOPES 15%-24.9%*	0 AC ±
SLOPES GREATER THAN 25%	0 AC ±
HIGHLY ERODIBLE SOILS	0 AC ± (1)

\* NOTES:

1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE; NATURAL RESOURCES CONSERVATION SERVICE;

WEB SOIL SURVEY. 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K'

GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

3) AREA OF LOT INSIDE STREAM BUFFER

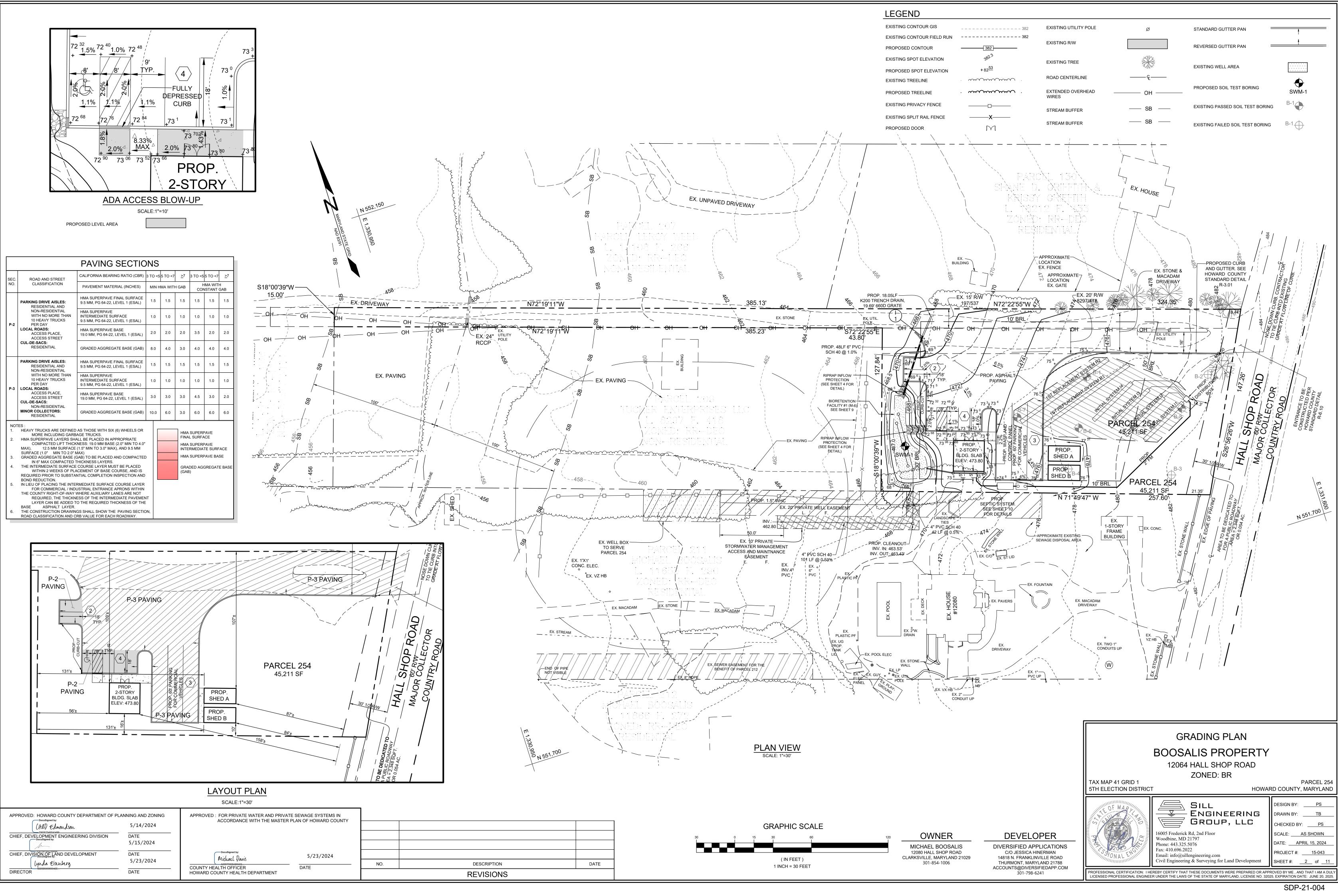
SHEET INDEX						
SHEET NO.	DESCRIPTION					
1	COVER SHEET					
2	GRADING PLAN					
3	SEDIMENT AND EROSION CONTROL AND FOREST CONSERVATION PLAN					
4	SEDIMENT AND EROSION CONTROL DETAILS					
5	SEDIMENT AND EROSION CONTROL NOTES					
6	SEDIMENT AND EROSION CONTROL DRAINAGE AREA MAP					
7	STORM DRAIN PROFILE AND DETAILS					
8	STORMWATER MANAGEMENT PLAN DRAINAGE AREA MAP					
9	STORMWATER MANAGEMENT PLAN, PROFILE, AND NOTES					
10	ONSITE SEWAGE DISPOSAL SYSTEM PLAN & PROFILE					
11	LANDSCAPING PLAN					

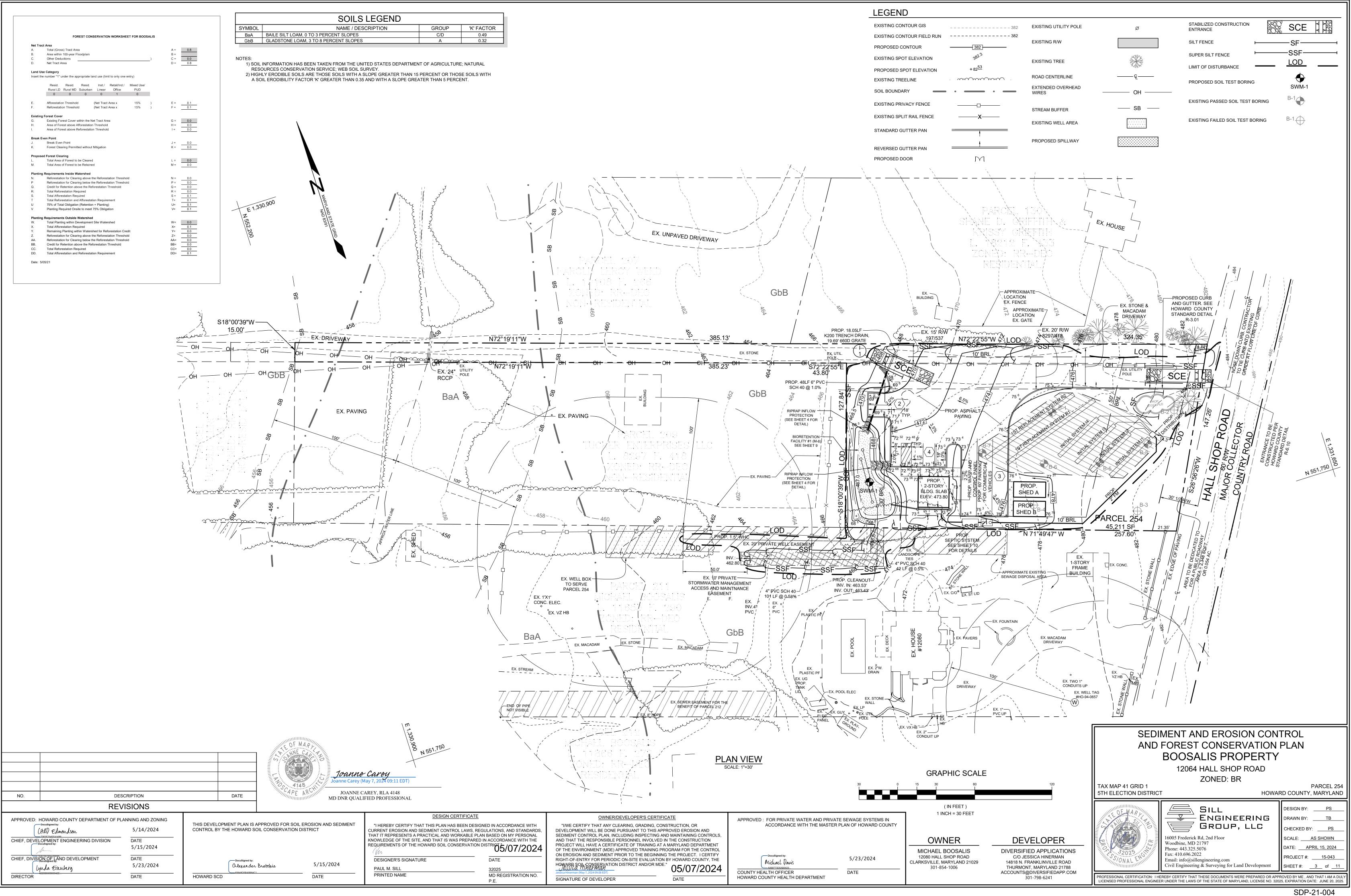
COVER SHEET BOOSALIS PROPERTY 12064 HALL SHOP ROAD ZONED: BR							
TAX MAP 41 GRID 1 5TH ELECTION DISTRIC	Г HOWAI	PARCEL 254 RD COUNTY, MARYLAND					
PROFESSIONAL CERTIFICATION: 1 HE	SILL ENGINEERING GROUP, LLC 16005 Frederick Rd, 2nd Floor Woodbine, MD 21797 Phone: 443.325.5076 Fax: 410.696.2022 Email: info@sillengineering.com Civil Engineering & Surveying for Land Development	DESIGN BY:       PS         DRAWN BY:       TB         CHECKED BY:       PS         SCALE:       AS SHOWN         DATE:       APRIL 15, 2024         PROJECT #:       15-043         SHEET #:       1       of       11         ROVED BY ME , AND THAT I AM A DULY					

SDP-21-004

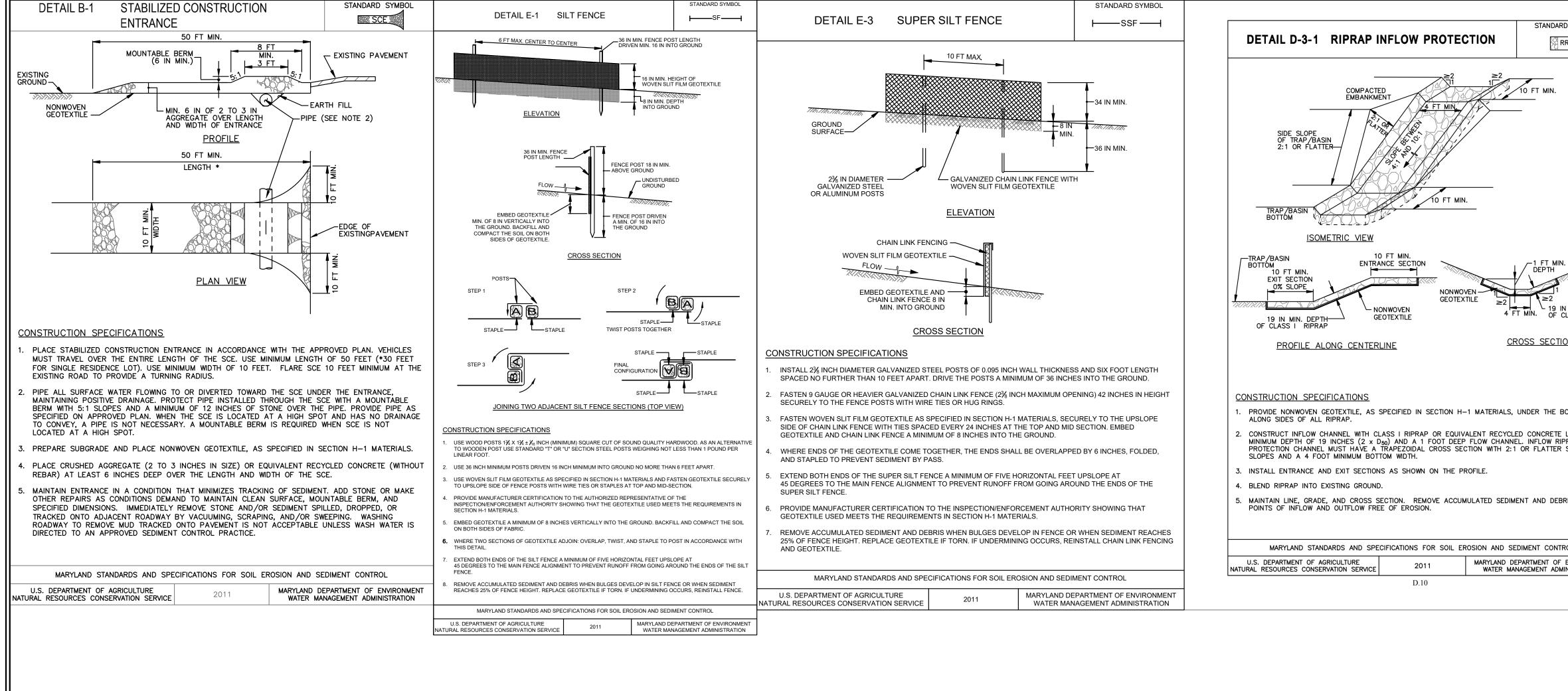
EX BLOWE INTITUTE OF THE OF TH	HALL SHOP ROAD	COUNTRY ROAD	N 551,7	E1.331,650
PHIC SC				200
(IN FEET) NCH = 50 FEET	-			
				-
RACTICE		TION PRIVATE	HOA MAINTAINS	-
M-6	-	X	NO	1

DEVELOPER DIVERSIFIED APPLICATIONS C/O JESSICA HINERMAN 14818 N. FRANKLINVILLE ROAD THURMONT, MARYLAND 21788 ACCOUNTS@DIVERSIFIEDAPP.COM 301-798-6241



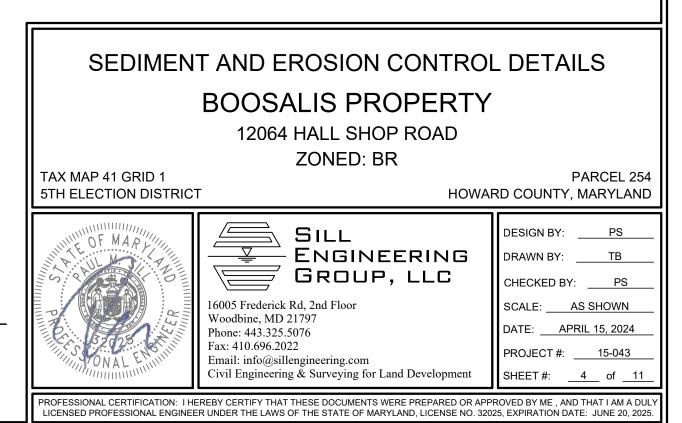


DocuSign Envelope ID: E2F99E1E-B5F9-4835-8713-1731570CFB0F



NO.	DESCRIPTION	DATE							
	REVISIONS								
APPROVED: I	HOWARD COUNTY DEPARTMENT OF PLANNING AND Z	ZONING		DESIGN CERTIFICATE	<u> </u>	OWNER/DEVELOPER'S CERTIFICATE	APPROVED : FOR PRIVATE WATER AND PRIVAT	TE SEWAGE SYSTEMS IN	]
	-DocuSigned by: "HAD Edmondson 5/14/20		PPROVED FOR SOIL EROSION AND SEDIMENT	"I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESI CURRENT EROSION AND SEDIMENT CONTROL LAWS. R		"I/WE CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND	ACCORDANCE WITH THE MASTER	PLAN OF HOWARD COUNTY	
				THAT IT REPRESENTS A PRACTICAL AND WORKABLE PI KNOWLEDGE OF THE SITE, AND THAT IS WAS PREPARE		SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROL AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION	5,		OWNER
	bouisigned by: 5/15/20	024		REQUIREMENTS OF THE HOWARD SOIL CONSERVATION	N DISTRICT." 04/16/2024	PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTRO			MICHAEL BOOSALIS
CHIEF, DIVISI		DocuSigned by:		DESIGNER'S SIGNATURE		ON EROSION AND SEDIMENT PRIOR TO THE BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY. THE	DocuSigned by:	5/23/2024	12080 HALL SHOP ROAD
	Docusigned by: Juda Eisenburg 5/23/20	024 Olexander Bra	tehie 5/15/2024	PAUL M. SILL	32025	HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE." <u>Jessica Hinerman</u> 04/19/2024	Michael Davis		CLARKSVILLE, MARYLAND 21029 301-854-1006
DIRECTOR	42200000000000000000000000000000000000	HOWARD SCD	DATE	PRINTED NAME	MD REGISTRATION NO.	Jessica Hinerman (Apr 19, 2024 08:41 EDT)     04/13/2024       SIGNATURE OF DEVELOPER     DATE	COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT	DATE	
					P.E.	SIGNATORE OF DEVELOPEIX DATE			

STANDARD SYMBOL					
}∂̃ RRPS̃					
T MIN.					
i Milin.					
FT MIN. EPTH					
N. A.					
≥2					
↓ 19 IN MIN. DEPTH OF CLASS I RIPRAP					
OF CLASS I RIFRAF					
SECTION					
R THE BOTTOM AND					
NCRETE LINING TO A					
LOW RIPRAP LATTER SIDE					
ND DEBRIS. KEEP					
T CONTROL					
IENT OF ENVIRONMENT ENT ADMINISTRATION					



DEVELOPER

DIVERSIFIED APPLICATIONS

C/O JESSICA HINERMAN

14818 N. FRANKLINVILLE ROAD

THURMONT, MARYLAND 21788 ACCOUNTS@DIVERSIFIEDAPP.COM

301-798-6241

# TABLE B.1: TEMPORARY SEEDING FOR SITE STABILIZATION

PLANT SPECIES	SEEDING RATE		SEEDING DEPTH	RECOMMENDED SEEDING DATES BY PLANT HARDINESS ZONE					
	LB/AC	LB/1000 FT <sup>2</sup>	(INCHES)	5b & 6a	6b	7a & 7b			
COOL-SEASON GRASSES									
ANNUAL RYEGRASS (LOLIUM PERENNE SSP. MULTIFLORUM)	40	1.0	0.5	MARCH 15 TO MAY 31; AUG 1 TO SEP 30	MARCH 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	MARCH 15 TO MAY 31; AUG 1 TO SEP 30	MARCH 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	MARCH 15 TO MAY 31; AUG 1 TO SEP 30	MARCH 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	MARCH 15 TO MAY 31; AUG 1 TO SEP 30	MARCH 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	MARCH 15 TO MAY 31; AUG 1 TO OCT 31	MARCH 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			

FERTILIZER RATE (10-0-20): 436 LB/AC (10LB/1000SF) LIME RATE: 2 TONS/AC (90LB/1000SF)

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. 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.

TABLE B.5: RECOMMENDED PLANTING DATES FOR PERMANENT COVER IN MARYLAND

TYPE OF PLANT MATERIAL	PLANT HARDINESS ZONES				
	5b & 6a	6b	7a & 7b		
SEEDS- COOL-SEASON GRASSES (INCLUDES MIXES WITH FORBS AND/OR LEGUMES)	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 OCT 31 NOV 1 TO NOV 30•		
SEEDS- WARM-SEASON/ COOL-SEASON GRASS MIXES	MAR 15 TO MAY 31++	MAR 1 TO MAY 15++	FEB 15 TO APR 30++		
(INCLUDES MIXES WITH FORBS AND/OR LEGUMES)	JUN 1 TO JUN 15*	MAY 16 TO JUN 15*	MAY 1 TO MAY 31*		
SOD - COOL-SEASON	MAR 15 TO MAY 31	MAR 1 TO MAY 15	FEB 15 TO APR 30		
	JUN 1 TO AUG 31*	MAY 16 TO SEP 14*	MAY 1 TO SEP 30*		
	SEP 1 TO NOV 1*□	SEP 15 TO NOV 15*□	OCT 1 TO DEC 1*□		
UNROOTED WOODY MATERIALS; BARE-ROOT PLANTS;	MARCH 15 TO MAY 31	MARCH 1 TO MAY 15	FEB 15 TO APR 30		
BULBS, RHIZOMES, CORMS AND TUBERS <sup>2</sup>	JUN 1 TO JUN 30*	MAY 16 TO JUN 30*	MAY 1 TO JUN 30*		
CONTAINERIZED STOCK; BALLED-AND-BURLAPPED STOCK	MAR 15 TO MAY 31	MAR 1 TO MAY 15	FEB 15 TO APR 30		
	JUN 1 TO JUN 30*	MAY 16 TO JUN 30*	MAY 1 TO JUN 30*		
	SEP 1 TO NOV 15*□	SEP 15 TO NOV 30*□	OCT 1 TO DEC 15*□		

# STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

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.
- 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.

	PERMANENT SEEDING SUMMARY										
SEED MIXTURE (HARDINESS ZONE 7A AND 6B) FERTILIZER RATE (10-20-20)								LIME RATE			
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	Ν	Р	к				
9	TALL FESCUE KENTUCKY BLUE GRASS	60 40	3/1 - 5/15 8/15 - 11/15	0.5 IN.	1.0 LB/ 1000 SF	2.0 LB/ 1000 SF	2.0 LB/ 1000 SF	90 LB/ 1000SF			

NO.	DESCRIPTION	DATE	
	REVISIONS		
C	HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING -Docussigned by: (HAD) Edmondson 5/14/2024		APPROVED FOR SOIL EROSI OIL CONSERVATION DISTRIC

ТО	STABILIZE DISTURBED SOILS WITH PERM
PU	RPOSE
•	TO USE LONG-LIVED PERENNIAL GRASS

- 1. GENERAL USE A. SELECT ONE OR MORE OF THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGUR FOUND ON TABLE
- **B.2. ENTER SELECTED MIXTURE** PERMANENT SEEDING SUMMARY. THE SUMMARY IS T B. ADDITIONAL PLANTING SPECIFI
- STREAM BANKS, OR DUNES OR FOR SPECIAL PURP FOUND IN USDA-NRCS TECHNIC PLANTING. C. FOR SITES HAVING DISTURBED
- RECOMMENDED BY THE SOIL TESTING AGENCY. D. FOR AREAS RECEIVING LOW M POUNDS PER
- 1000 SQUARE FEET (150 POUND SOIL AMENDMENTS SHOWN IN THE PERMANENT SE 2. TURFGRASS MIXTURES A. AREAS WHERE TURFGRASS M COMMERCIAL SITES
- WHICH WILL RECEIVE A MEDIU B. SELECT ONE OR MORE OF THE CONDITIONS OR PURPOSE. ENTER SELECTED M PERMANENT SEEDING SUMMAR I. KENTUCKY BLUEGRASS

- PROTECTION AND AS C. IDEAL TIMES OF SEEDING FOR WESTERN MD: MARCH 15 TO JU CENTRAL MD: MARCH 1 TO MAY SOUTHERN MD, EASTERN SHO (HARDINESS ZONES: 7A, 7B) D. TILL AREAS TO RECEIVE SEED I
- TO 4 INCHES, LEVEL AND RAKE THE AREAS TO PREF 11/2 INCHES IN DIAMETER. THE RESULTING SEE GRASSES WILL
- POSE NO DIFFICULTY. E. IF SOIL MOISTURE IS DEFICIEN GROWTH (1/2 TO 1 INCH EVERY FIRMLY ESTABLISHED. THIS IS
- PLANTING SEASON, IN ABNORM B. SOD: TO PROVIDE QUICK COVER ON DIST
- 1. GENERAL SPECIFICATIONS A. CLASS OF TURFGRASS SOD MI MADE AVAILABLE TO THE JOB F B. SOD MUST BE MACHINE CUT A INCH, AT THE TIME OF CUTTING
- GROWTH AND THATCH. BROKE ACCEPTABLE. C. STANDARD SIZE SECTIONS OF WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPE PERCENT OF THE SECTION. D. SOD MUST NOT BE HARVESTED
- DRY OR WET) MAY ADVERSELY E. SOD MUST BE HARVESTED, DE NOT TRANSPLANTED WITHIN T
- SCIENTIST PRIOR TO ITS INSTA 2. SOD INSTALLATION
- A. DURING PERIODS OF EXCESSIV LIGHTLY IRRIGATE THE SUBSO B. LAY THE FIRST ROW OF SOD IN TO IT AND TIGHTLY
- WEDGED AGAINST EACH OTHEI GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STR TIGHT IN ORDER TO PREVENT C. WHEREVER POSSIBLE, LAY SO
- WITH STAGGERING JOINTS. RC PREVENT SLIPPAGE ON SLOPE SOLID CONTACT EXISTS BETW
- D. WATER THE SOD IMMEDIATEL THE NEW SOD PAD AND SOIL S THE OPERATIONS OF LAYING, HOURS.
- 3. SOD MAINTENANCE A. IN THE ABSENCE OF ADEQUAT
- OFTEN AND SUFFICIENTLY AS I WATER SOD DURING THE HEAT B. AFTER THE FIRST WEEK, SOD
- ADEQUATE MOISTURE CONTEN C. DO NOT MOW UNTIL THE SOD MUST BE REMOVED BY THE INIT HEIGHT OF AT LEAST 3 INCHES
- NOTES: 1. THE PLANTING DATES LISTED ARE AVER REFLECT LOCAL CONDITIONS, ESPECI
- END OF THE LISTED PLANTING DATES AN APPROPRIATE NURSE CROP FROM TOGETHER WITH THE PERMANENT SE
- 2. WHEN PLANTED DURING THE GROWIN A DORMANT CONDITION UNTIL PLANTI GROWING (NON-DORMANT) PLANTS.
- ♦ ADDITIONAL PLANTING DATES FOR TH TEMPERATURE TRENDS. RECOMMEND PERIOD.
- ↔ WARM-SEASON GRASSES NEED A SOIL SOIL TEMPERATURES ARE COLDER TH
- DORMANT UNTIL CONDITIONS ARE FAV PERIOD ALLOWS MORE TIME FOR WEE A PLANTING DATE, CONSIDER THE NE
- MOISTURE FOR LATER PLANTINGS, ES \* ADDITIONAL PLANTING DATES DURING ESTABLISHMENT.
- FREQUENT FREEZING AND THAWING LATE FALL, IF PLANTS HAVE NOT SUFF BECOME SUFFICIENTLY ROOTED. LARC INTO THE WINTER MONTHS AS LONG AS THE GROUND IS NOT FROZEN AND SOIL MOISTURE IS ADEQUATE.

# DESIGN CERT

"I HEREBY CERTIFY THAT THIS PLAN HAS BE CURRENT EROSION AND SEDIMENT CONTROL I THAT IT REPRESENTS A PRACTICAL AND WORK KNOWLEDGE OF THE SITE, AND THAT IS WAS P REQUIREMENTS OF THE HOWARD SOIL CONSE

(Vn	
DESIGNER'S SIGNATURE	
PAUL M. SILL	
PRINTED NAME	

(Hal) Edmondson	5/14/2024
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE 5/15/2024
CHIEF, DIVISIONERS LAND DEVELOPMENT	DATE 5/23/2024

DATE

DIRECTOR

lynda Eisenberg

SION AND SEDIMENT THE HOWARD SOIL CONSERVATION DISTRICT

Docusigned by: Olexander Bratchie	
65648D5BA9B64C1	_
HOWARD SCD	

DATE

5/15/2024

AND ZONING	THIS DEVELO
4/2024	CONTROL BY

STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION	SEDIMENT CONTROL NOTES
TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION. PURPOSE 	1. A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), 410-313-1855 AFTER THE FUTURE LOD AND PROTECTED AREAS ARE
<ul> <li>TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS.</li> <li>CONDITIONS WHERE PRACTICE APPLIES</li> </ul>	MARKED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOURS NOTICE TO CID MUST BE GIVEN AT THE FOLLOWING STAGES:
EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE. CRITERIA	<ul> <li>A: PRIOR TO THE START OF EARTH DISTURBANCE</li> <li>B. UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE</li> </ul>
A. SEED MIXTURES 1. GENERAL USE	<ul> <li>PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.</li> <li>C. PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT.</li> <li>D. DRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT.</li> </ul>
A. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT	<ul> <li>D. PRIOR TO THE REMOVAL OR MODIFICATION OF SEDIMENT CONTROL PRACTICES.</li> <li>OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE. OTHER RELATED STATE AND FEDERAL PERMITS SHALL BE REFERENCED. TO</li> </ul>
HARDINESS ZONE (FROM FIGURE B.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE	ENSURE COORDINATION AND TO AVOID CONFLICTS WITH THIS PLAN. 2. ALL VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN
B.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING	AND ARE TO BE IN CONFORMANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL; AND REVISIONS THERETO.
SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN. B. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES,	3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION IS REQUIRED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES,
STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE	DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER
FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342 - CRITICAL AREA PLANTING.	ACTIVE GRADING. 4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED IN ACCORDANCE WITH THE 2011
C. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL	MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR TOPSOIL (SEC. B-4-2) PERMANENT SEEDING (SEC. B-4-5), TEMPORARY SEEDING (SEC. B-4-4) AND MULCHING (SEC. B-4-3). TEMPORARY
TESTING AGENCY. D. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 ½ POUNDS PER	STABILIZATION WITH MULCH ALONE CAN ONLY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES IF THE GROUND IS FROZEN. INCREMENTAL STABILIZATION (SEC. B-4-1) SPECIFICATIONS SHALL BE ENFORCED IN AREAS WITH
1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS	> 15' OF CUT AND/OR FILL. STOCKPILES (SEC. B-4-8) IN EXCESS OF 20 FT. MUST BE BENCHED WITH STABLE OUTLET. ALL CONCENTRATED FLOW, STEEP SLOPE, AND HIGHLY ERODIBLE AREAS SHALL RECEIVE SOIL STABILIZATION
SUIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY . 2. TURFGRASS MIXTURES	MATTING (SEC. B-4-6). 5. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE, AND ARE TO BE MAINTAINED IN OPERATIVE
A. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES	CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM CID. 6. SITE ANALYSIS :
WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE. B. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE	TOTAL AREA:         1.04 ± ACRES           AREA DISTURBED:         0.83 ± ACRES
CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE	AREA TO BE ROOFED OR PAVED: 0.38 ± ACRES AREA TO BE VEGETATIVELY STABILIZED: 0.43 ACRES TOTAL CHE: 575 CY
PERMANENT SEEDING SUMMARY. THE SÚMMARY IS TO BE PLACED ON THE PLAN. I. KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE	TOTAL CUT:
INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS	7. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST
CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10	BE REPAIRED ON THE SAME DAY OF DISTURBANCE. 8. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE CID. THE SITE AND ALL
TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT. II. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN	CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR WEEKLY; AND THE NEXT DAY AFTER EACH RAIN EVENT. A WRITTEN REPORT BY THE CONTRACTOR, MADE AVAILABLE UPON REQUEST, IS PART OF EVERY INSPECTION AND
AREAS WHERE B.22 RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS	SHOULD INCLUDE:  INSPECTION DATE
CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.	<ul> <li>INSPECTION TYPE (ROUTINE, PRE-STORM EVENT, DURING RAIN EVENT)</li> <li>NAME AND TITLE OF INSPECTOR</li> <li>WEATHER INFORMATION (CURRENT CONDITIONS AS WELL AS TIME AND AMOUNT OF LAST RECORDED</li> </ul>
WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT. III. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL	WEATHER INFORMATION (CURRENT CONDITIONS AS WELL AS TIME AND AMOUNT OF LAST RECORDED     PRECIPITATION     PRIED DESCRIPTION OF PROJECT'S STATUS (E.C., DEPCENT COMPLETE) AND/OP CURRENT ACTIVITIES
SUN TO MEDIUM SHADE. RECOMMENDED MIXTURE INCLUDES; CERTIFIED TALL FESCUE CULTIVARS 95 TO 100	<ul> <li>BRIEF DESCRIPTION OF PROJECT'S STATUS (E.G., PERCENT COMPLETE) AND/OR CURRENT ACTIVITIES</li> <li>EVIDENCE OF SEDIMENT DISCHARGES</li> <li>DENTIFICATION OF PLAN DESIGNENCIES</li> </ul>
PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE	<ul> <li>IDENTIFICATION OF PLAN DEFICIENCIES</li> <li>IDENTIFICATION OF SEDIMENT CONTROLS THAT REQUIRE MAINTENANCE</li> <li>IDENTIFICATION OF MISSING OR IMPROPERLY INSTALLED SEDIMENT CONTROLS</li> </ul>
BLENDED. IV. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH	<ul> <li>IDENTIFICATION OF MISSING OR IMPROPERLY INSTALLED SEDIMENT CONTROLS</li> <li>COMPLIANCE STATUS REGARDING THE SEQUENCE OF CONSTRUCTION AND STABILIZATION REQUIREMENTS</li> <li>PHOTOGRAPHS</li> </ul>
SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA. MIXTURE INCLUDES; CERTIFIED KENTUCKY BLUEGRASS	<ul> <li>MONITORING/SAMPLING</li> <li>MAINTENANCE AND/OR CORRECTIVE ACTION PERFORMED</li> </ul>
CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 1½ TO 3 POUNDS PER 1000 SQUARE FEET.	<ul> <li>OTHER INSPECTION ITEMS AS REQUIRED BY THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES (NPDES, MDE).</li> </ul>
NOTES: SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO #77,	<ol> <li>TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPES LENGTHS OR THAT WHICH CAN AND SHALL BE BACKFILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER.</li> </ol>
"TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND" CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY.	10. ANY MAJOR CHANGES OR REVISIONS TO THE PLAN OR SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE HSCD PRIOR TO PROCEEDING WITH CONSTRUCTION. MINOR REVISIONS MAY BE ALLOWED BY THE
THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER	CID PER THE LIST OF HSCD-APPROVED FIELD CHANGES. 11. DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.D. A PROJECT IS TO BE SEQUENCED SO THAT GRADING
PROTECTION AND ASSURES A PURE GENETIC LINE C. IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES: WEDTERN MD: MARCH 45 TO JUNE 4, AUCUST 4 TO OCTORED 4 (UARDINESS ZONES) 5D, CA)	ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE
WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 5B, 6A) CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 6B) SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15	PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE HSCD. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE HSCD, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME.
(HARDINESS ZONES: 7A, 7B) D. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2	<ol> <li>WASH WATER FROM ANY EQUIPMENT, VEHICLES, WHEELS, PAVEMENT, AND OTHER SOURCES MUST BE TREATED IN A SEDIMENT BASIN OR OTHER APPROVED WASHOUT STRUCTURE.</li> </ol>
TO 4 INCHES, LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER	<ol> <li>TOPSOIL SHALL BE STOCKPILED AND PRESERVED ON-SITE FOR REDISTRIBUTION ONTO FINAL GRADE.</li> <li>ALL SILT FENCE AND SUPER SILT FENCE SHALL BE PLACED ON-THE-CONTOUR, AND BE IMBRICATED AT 25' MINIMUM</li> </ol>
1½ INCHES IN DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF	INTERVALS, WITH LOWER ENDS CURLED UPHILL BY 2' IN ELEVATION. 15. STREAM CHANNELS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIODS (INCLUSIVE):
GRASSES WILL POSE NO DIFFICULTY.	<ul> <li>USE   AND IP MARCH 1 - JUNE 15</li> <li>USE III AND IIIP OCTOBER 1 - APRIL 30</li> <li>USE IV MARCH 1 - MAY 31</li> </ul>
E. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (½ TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE	<ol> <li>A COPY OF THIS PLAN, THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND ASSOCIATED PERMITS SHALL BE ON-SITE AND AVAILABLE WHEN THE SITE IS ACTIVE.</li> </ol>
FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.	* EARTHWORK QUANTITIES ARE SOLELY FOR THE PURPOSE OF CALCULATING FEES. CONTRACTOR TO VERIFY ALL
<ul> <li>B. SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).</li> <li>1. GENERAL SPECIFICATIONS</li> </ul>	QUANTITIES PRIOR TO THE START OF CONSTRUCTION. ** TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN
<ul> <li>A. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.</li> <li>B. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF <sup>3</sup>/<sub>4</sub> INCH, PLUS OR MINUS <sup>1</sup>/<sub>4</sub></li> </ul>	APPROVED AND ACTIVE GRADING PERMIT.
INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS OF 74 INCH, PLOS OR MINOS 74 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	B-4-8 STANDARDS AND SPECIFICATIONS FOR
WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10	STOCKPILE AREA
PERCENT OF THE SECTION. D. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY	<ul> <li>A MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL MEASURES.</li> </ul>
DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL. E. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD	<ul> <li>PURPOSE</li> <li>TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE</li> </ul>
NOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.	POTENTIAL FOR EROSION, SEDIMENTATION, AND CHANGES TO DRAINAGE PATTERNS. CONDITIONS WHERE PRACTICE APPLIES
<ol> <li>SOD INSTALLATION         A. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL,     </li> </ol>	<ul> <li>STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.</li> </ul>
LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD. B. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL	CRITERIA: 1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INFORMATION ON THE STOCKED AND DEPENDENT CONTROL PLAN
TO IT AND TIGHTLY WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH.	INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN. 2. THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND PASED ON A SIDE SLOPE RATIO NO STEEDER THAN 21, PENCHING MUST BE DROVIDED
ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED	MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THAN 2:1. BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.
TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS. C. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS. ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO	<ol> <li>RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL PRACTICE.</li> <li>ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE.</li> <li>CLEAR WATER RUNOFE INTO THE STOCKPILE AREA MUST BE MINIMIZED BY USE OF A DIVERSION.</li> </ol>
WITH STAGGERING JOINTS. ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO PREVENT SLIPPAGE ON SLOPES. ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE.	<ol> <li>CLEAR WATER RUNOFF INTO THE STOCKPILE AREA MUST BE MINIMIZED BY USE OF A DIVERSION DEVICE SUCH AS AN EARTH DIKE, TEMPORARY SWALE OR DIVERSION FENCE. PROVISIONS MUST BE MADE FOR DISCHARGING CONCENTRATED FLOW IN A NON-EROSIVE MANNER.</li> </ol>
D. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE	<ol> <li>WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE FILL, AN APPROPRIATE EROSION/SEDIMENT CONTROL PRACTICE MUST BE USED TO INTERCEPT THE DISCHARGE.</li> </ol>
THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT HOURS.	<ol> <li>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</li> </ol>
3. SOD MAINTENANCE A. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS	STABILIZATION. 8. IF THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LINER SHOULD BE PROVIDED BELOW
OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING.	THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING.
B. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT.	MAINTENANCE: THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE VEGETATIVE
C. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN ½ OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS	ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION. SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER THAN A 2:1 RATIO. THE STOCKPILE AREA MUST BE KEPT FREE OF EROSION. IF
HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.	THE VERTICAL HEIGHT OF A STOCKPILE EXCEEDS 20 FEET FOR 2:1 SLOPES, 30 FEET FOR 3:1 SLOPES, OR 40 FEET FOR 4:1 SLOPES, BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.
NOTES: 1. THE PLANTING DATES LISTED ARE AVERAGES FOR EACH ZONE. THESE DATES MAY REQUIRE ADJUSTMENT TO REFLECT LOCAL CONDITIONS, ESPECIALLY NEAR THE BOUNDARIES OF THE ZONES. WHEN SEEDING TOWARD THE	
REFLECT LOCAL CONDITIONS, ESPECIALLY NEAR THE BOUNDARIES OF THE ZONES. WHEN SEEDING TOWARD THE END OF THE LISTED PLANTING DATES, OR WHEN CONDITIONS ARE EXPECTED TO BE LESS THAN OPTIMAL, SELECT AN APPROPRIATE NURSE CROP FROM TABLE B.1 TEMPORARY SEEDING FOR SITE STABILIZATION AND PLANT	
TOGETHER WITH THE PERMANENT SEEDING MIX. 2. WHEN PLANTED DURING THE GROWING SEASON, MOST OF THESE MATERIALS MUST BE PURCHASED AND KEPT IN	
A DORMANT CONDITION UNTIL PLANTING. BARE-ROOT GRASSES ARE THE EXCEPTION—THEY MAY BE SUPPLIED AS GROWING (NON-DORMANT) PLANTS.	
<ul> <li>ADDITIONAL PLANTING DATES FOR THE LOWER COASTAL PLAIN, DEPENDENT ON ANNUAL RAINFALL AND TEMPERATURE TRENDS. RECOMMEND ADDING A NURSE CROP, AS NOTED ABOVE, IF PLANTING DURING THIS PERIOD.</li> </ul>	
PERIOD. ↔ WARM-SEASON GRASSES NEED A SOIL TEMPERATURE OF AT LEAST 50 DEGREES F IN ORDER TO GERMINATE. IF SOIL TEMPERATURES ARE COLDER THAN 50 DEGREES, OR MOISTURE IS NOT ADEQUATE, THE SEEDS WILL REMAIN	
DORMANT UNTIL CONDITIONS ARE FAVORABLE. IN GENERAL, PLANTING DURING THE LATTER PORTION OF THIS PERIOD ALLOWS MORE TIME FOR WEED EMERGENCE AND WEED CONTROL PRIOR TO PLANTING. WHEN SELECTING	
A PLANTING DATE, CONSIDER THE NEED FOR WEED CONTROL VS. THE LIKELIHOOD OF HAVING SUFFICIENT MOISTURE FOR LATER PLANTINGS, ESPECIALLY ON DROUGHTY SITES. * ADDITIONAL PLANTING DATES DURING WHICH SUPPLEMENTAL WATERING MAY BE NEEDED TO ENSURE PLANT	
<ul> <li>* ADDITIONAL PLANTING DATES DURING WHICH SUPPLEMENTAL WATERING MAY BE NEEDED TO ENSURE PLANT ESTABLISHMENT.</li> <li>□ FREQUENT FREEZING AND THAWING OF WET SOILS MAY RESULT IN FROST-HEAVING OF MATERIALS PLANTED IN</li> </ul>	
LATE FALL, IF PLANTS HAVE NOT SUFFICIENTLY ROOTED IN PLACE. SOD USUALLY NEEDS 4 TO 6 WEEKS TO BECOME SUFFICIENTLY ROOTED. LARGE CONTAINERIZED AND BALLED-AND-BURLAPPED STOCK MAY BE PLANTED	

TIFICATE
EEN DESIGNED IN ACCORDANCE WITH LAWS. REGULATIONS. AND STANDARDS
RKABLE PLAN BASED ON MY PERSONAL
PREPARED IN ACCORDANCE WITH THE
ERVATION DISTRICT."

04/16/2024

MD REGISTRATION NO.

DATE

P.E.

OWNER/DEVELOPER'S CERTIFICATE
"I/WE CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS NO THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION ROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO THE BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE IOWARD SOIL CONSERVATION DISTRICT AND/OR MDE." Jessica Hineyman 04/19/2024
2551C/2 11/10/11/2021 08:40 EDT) 04/13/2024
SIGNATURE OF DEVELOPER DATE

ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

APPROVED : FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN

— DocuSigned I Michael Davis COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT

5/23/2024 DATE

OWNER MICHAEL BOOSALIS 12080 HALL SHOP ROAD CLARKSVILLE, MARYLAND 21029 301-854-1006

STANDARDS AND SPEC AND SOIL AMENDMENT DEFINITION	IFICATIONS FOR SOIL PREPARATION, TOPSOILING, S		
PURPOSE <ul> <li>TO PROVIDE A SUITABLE SOI</li> </ul>	G THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION. L MEDIUM FOR VEGETATIVE GROWTH.		
CONDITIONS WHERE PRACTICE APPLIES <ul> <li>WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.</li> <li><u>CRITERIA</u></li> <li>A. SOIL PREPARATION</li> </ul>			
1. TEMPORARY STABILIZ a. SEEDBED PREPA	RATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY		
HARROWS OR CH AFTER THE SOIL I	BLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC ISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT		
RIDGES RUNNING b. APPLY FERTILIZE	ED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH PARALLEL TO THE CONTOUR OF THE SLOPE. R AND LIME AS PRESCRIBED ON THE PLANS.		
OTHER SUITABLE 2. PERMANENT STABILIZ	ATION		
MINIMUM SOIL CC I. SOIL PH BET	EQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE NDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE: IVEEN 6.0 AND 7.0.		
III. SOIL CONTA (GREATER 1	ALTS LESS THAN 500 PARTS PER MILLION (PPM). NNS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED.		
THEN A SAN ACCEPTABL	IDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE		
V. SOIL CONTA	INS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION. AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET		
c. GRADED AREAS M	JUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5		
THE RESULTS OF	NDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY A SOIL TEST. /IENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER		
LIKE STONES AND	. RAKE LAWN AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS D BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN Y DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN		
PREPARATION. TF	HERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED RACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE ULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF		
	'E THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED BE UNNECESSARY ON NEWLY DISTURBED AREAS.		
VEGETATION. THE PU GROWTH. SOILS OF C	VER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT RPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE ONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW		
2. TOPSOIL SALVAGED F STANDARDS AS SET F	TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION. ROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE ORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO		
SECTION IN THE SOIL 3. TOPSOILING IS LIMITE	GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SURVEY PUBLISHED BY USDA-NRCS. D TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:		
PRODUCE VEGET b. THE SOIL MATERI	AL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO		
NUTRIENTS. c. THE ORIGINAL SC	S OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT		
<ol> <li>AREAS HAVING SLOPE</li> <li>TOPSOIL SPECIFICATI</li> </ol>	CIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE. ES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN. ONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING		
LOAMY SAND. OT	E A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR HER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL		
NOT BE A MIXTUR 5 PERCENT BY VC	PPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST IE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN DLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL,		
b. TOPSOIL MUST BI QUACK GRASS, JO	RASH, OR OTHER MATERIALS LARGER THAN 1½ INCHES IN DIAMETER. E FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, DHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS		
<ul> <li>SPECIFIED.</li> <li>c. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.</li> <li>6. TOPSOIL APPLICATION <ul> <li>a. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.</li> </ul> </li> </ul>			
			b. UNIFORMLY DISTI MINIMUM THICKN
PREPARATION AN TOPSOILING OR C	ID TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE EPRESSIONS OR WATER POCKETS.		
c. TOPSOIL MUST N CONDITION, WHE	OT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY N THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY ETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.		
1. SOIL TESTS MUST BE	ILIZER AND LIME SPECIFICATIONS) PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES ERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE.		
	E PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL AMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR		
ACCURATE APPLICAT	E UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR OR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY.		
APPLICABLE LAWS AN OF THE PRODUCER.	L BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE ID MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY		
SUBSTITUTED EXCEP OXIDES (CALCIUM OXI	T BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE T WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL IDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH		
PERCENT WILL PASS <sup>•</sup> 4. LIME AND FERTILIZER	AST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 THROUGH A #20 MESH SIEVE. ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO		
5. WHERE THE SUBSOIL GROUND LIMESTONE	DISKING OR OTHER SUITABLE MEANS. IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE		
FEET) PRIOR TO THE	PLACEMENT OF TOPSOIL.		
SEQUENCE C	F CONSTRUCTION		
1. OBTAIN GRADING PEI 2. NOTIFY HOWARD COL	RMIT. JNTY DEPARTMENT OF PUBLIC WORKS, (410)-313-1880, AT LESAT 48 HOURS		
4. ROUGH GRADE LOT A	CONSTRUCTION ENTRANCE, SILT FENCE AND SUPER SILT FENCE. (2 DAYS) ND BEGIN BUILDING CONSTRUCTION. (1 WEEK)		
6. BASE PAVE DRIVEWA 7. FINISH BUILDING CON	UTTER, STORM DRAIN, AND WELL AND SEPTIC SYSTEMS. (1 MONTH) Y AND PARKING AREAS. (1 MONTH) ISTRUCTION. (2 MONTHS)		
FACILITY #1, ENSURIN	THE SEDIMENT CONTROL INSPECTOR, CONSTRUCT MICRO-BIORETENTION IG NO SEDIMENT LADEN RUNOFF ENTERS THIS FACILITY. (1 WEEK) OF ALL DISTURBED AREAS AND WITH THE PERMISSION OF THE SEDIMENT		
CONTROL INSPECTO REMAINING DISTURB	R, REMOVE ALL SEDIMENT CONTROL MEASURES AND STABILIZE ANY ED AREAS. (1 WEEK)		
	SEDIMENT AND EROSION CONTRO		
	12064 HALL SHOP ROAD ZONED: BR		
	TAX MAP 41 GRID 1     5TH ELECTION DISTRICT	PARCEL 254 RD COUNTY, MARYLAND	
	OF MARY SILL	DESIGN BY:PS	
	Engineering Group, LLC	DRAWN BY: <u>TB</u> CHECKED BY: <u>PS</u>	
DEVELOPER	16005 Frederick Rd, 2nd Floor Woodbine, MD 21797	SCALE: AS SHOWN	
ALIS DIVERSIFIED APPLICATIONS OAD C/O JESSICA HINERMAN	Phone: 443.325.5076 Fax: 410.696.2022 Email: info@sillengineering.com	DATE: <u>APRIL 15, 2024</u> PROJECT #: <u>15-043</u>	

ONAL

Email: info@sillengineering.com

Civil Engineering & Surveying for Land Development

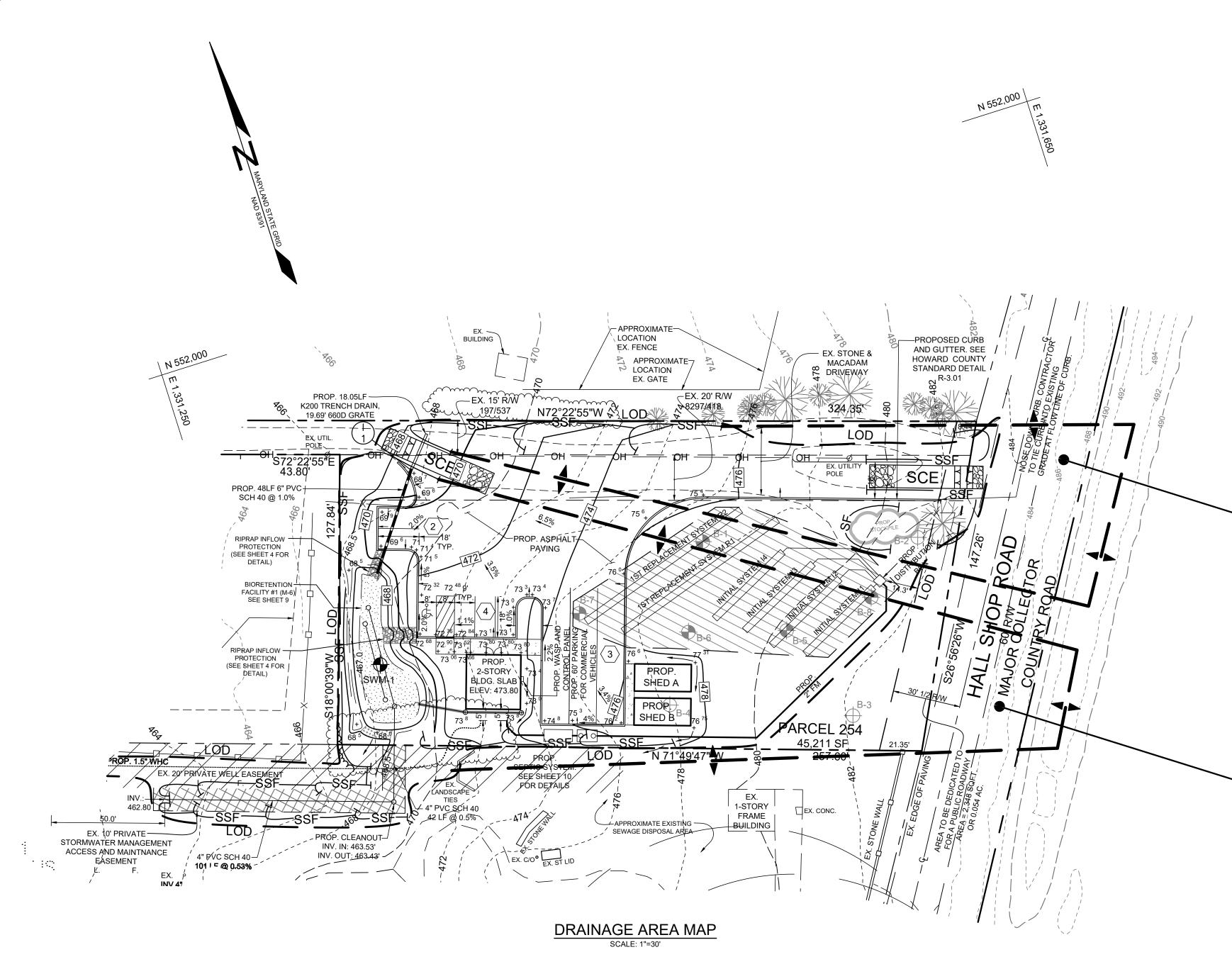
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME , AND THAT I AM A DUL' LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2025.

DIVERSIFIED APPLICATIONS C/O JESSICA HINERMAN 14818 N. FRANKLINVILLE ROAD THURMONT, MARYLAND 21788 ACCOUNTS@DIVERSIFIEDAPP.COM 301-798-6241

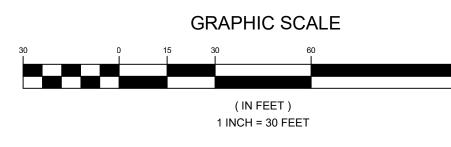
SHEET #: <u>5</u> of <u>11</u>

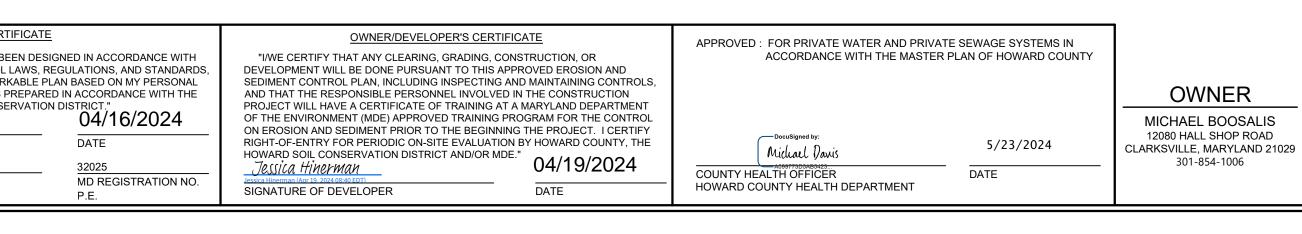
	SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR	
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.49	
GbB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	A	0.32	

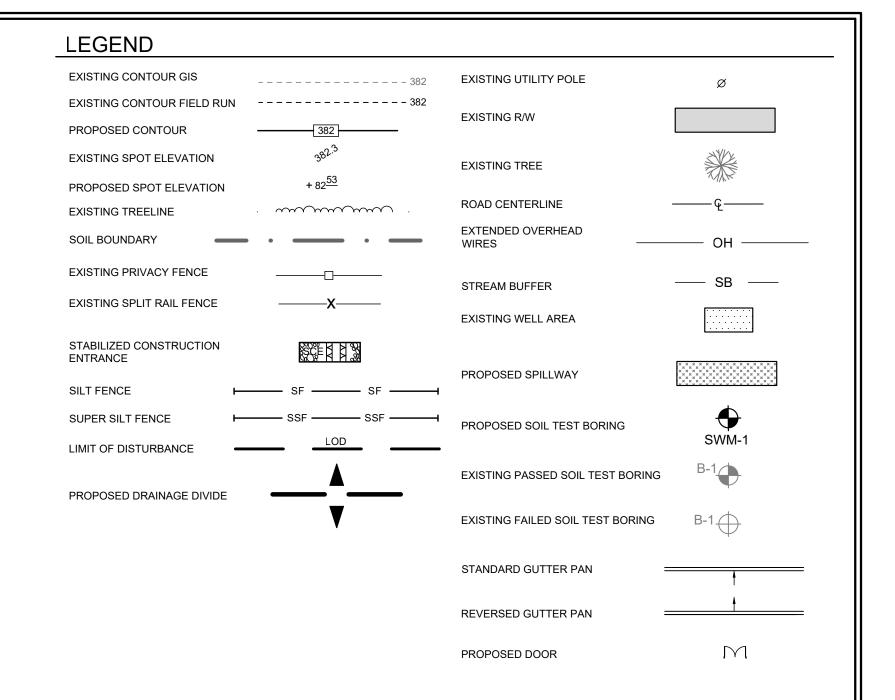
NOTES: 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE; NATURAL RESOURCES CONSERVATION SERVICE; WEB SOIL SURVEY. 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH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



NO.		SCRIPTION		DATE			
	REV	/ISIONS					
	APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING DocuSigned by: (JLI) Elmon Json ZOBGETATEEA1400 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE DocuSigned by: DocuSigned by: Difference by: D				APPROVED FOR SOIL ER DIL CONSERVATION DIS		DESIGN CERTI "I HEREBY CERTIFY THAT THIS PLAN HAS BEE CURRENT EROSION AND SEDIMENT CONTROL L THAT IT REPRESENTS A PRACTICAL AND WORK KNOWLEDGE OF THE SITE, AND THAT IS WAS PF REQUIREMENTS OF THE HOWARD SOIL CONSEF
(	PERSONALZENAND DEVELOPMENT ON OF LAND DEVELOPMENT Juda Eisenburg 2000000000000000000000000000000000000	5/15/2024 DATE 5/23/2024 DATE	HOWARD S	DocuSigned by: Olexander Bra CD 65648D5BA9B84C1	tohie	5/15/2024 	DESIGNER'S SIGNATURE PAUL M. SILL PRINTED NAME







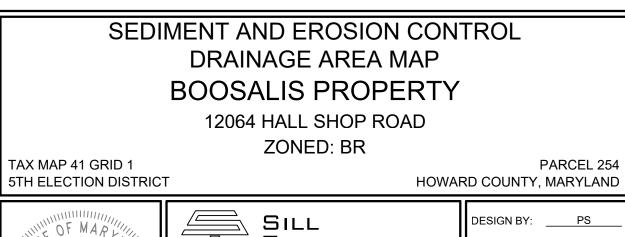
# SUPER SILT FENCE

PROPOSED DRAINAGE AREA (ACRE) = 0.32 ± SLOPE LENGTH = 310.62' SLOPE PERCENTAGE = 7.73%

# SUPER SILT FENCE

PROPOSED DRAINAGE AREA (ACRE) = 0.67 ± SLOPE LENGTH = 333.65' SLOPE PERCENTAGE = 7.49%





DEVELOPER DIVERSIFIED APPLICATIONS C/O JESSICA HINERMAN 14818 N. FRANKLINVILLE ROAD THURMONT, MARYLAND 21788 ACCOUNTS@DIVERSIFIEDAPP.COM

301-798-6241

 $\stackrel{\frown}{=}$  Engineering GROUP, LLC 16005 Frederick Rd, 2nd Floor Woodbine, MD 21797 Phone: 443.325.5076 Fax: 410.696.2022 Email: info@sillengineering.com ONAV Civil Engineering & Surveying for Land Development PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME , AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2025.

SDP-21-004

DRAWN BY: TB

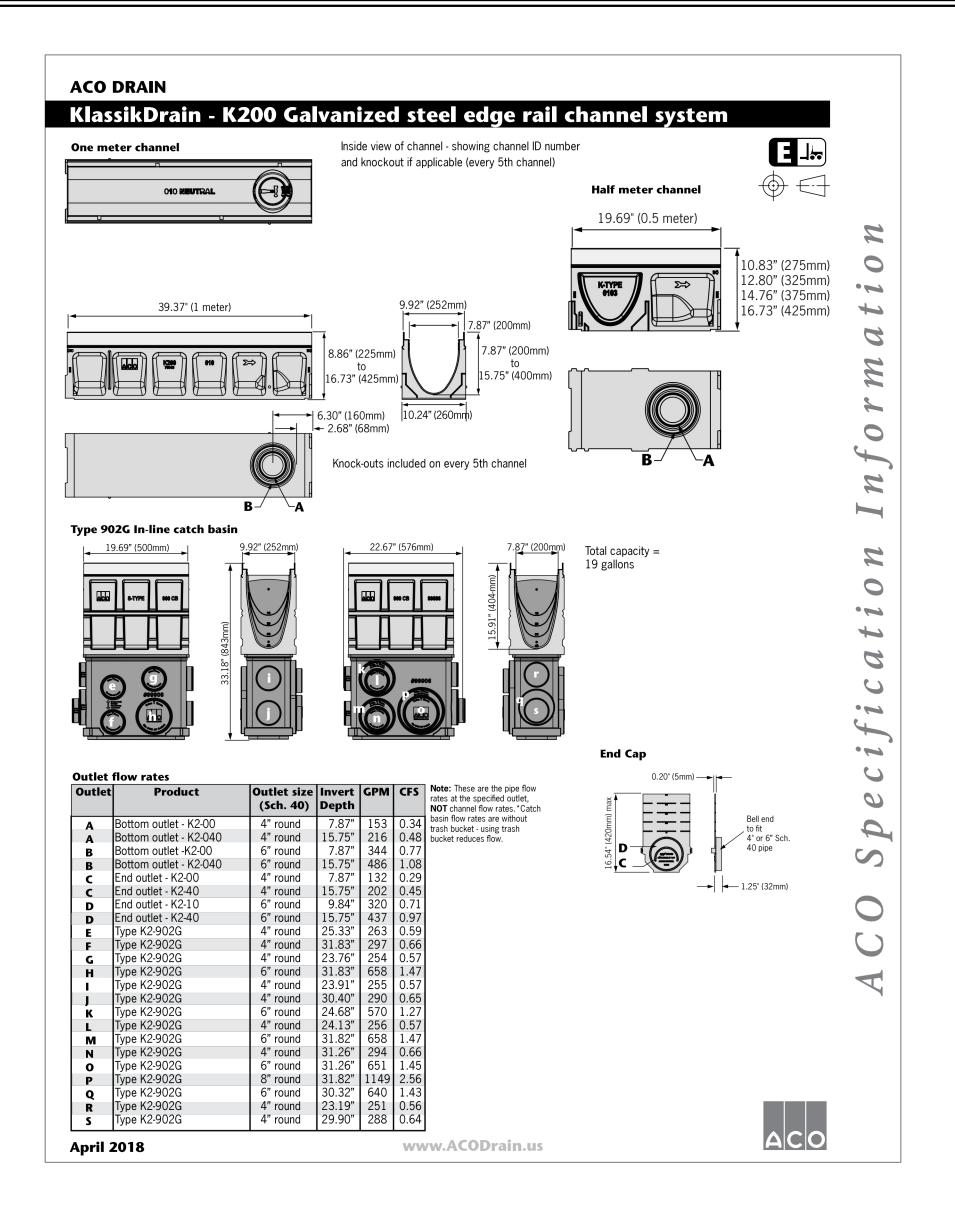
CHECKED BY: PS

SCALE: AS SHOWN

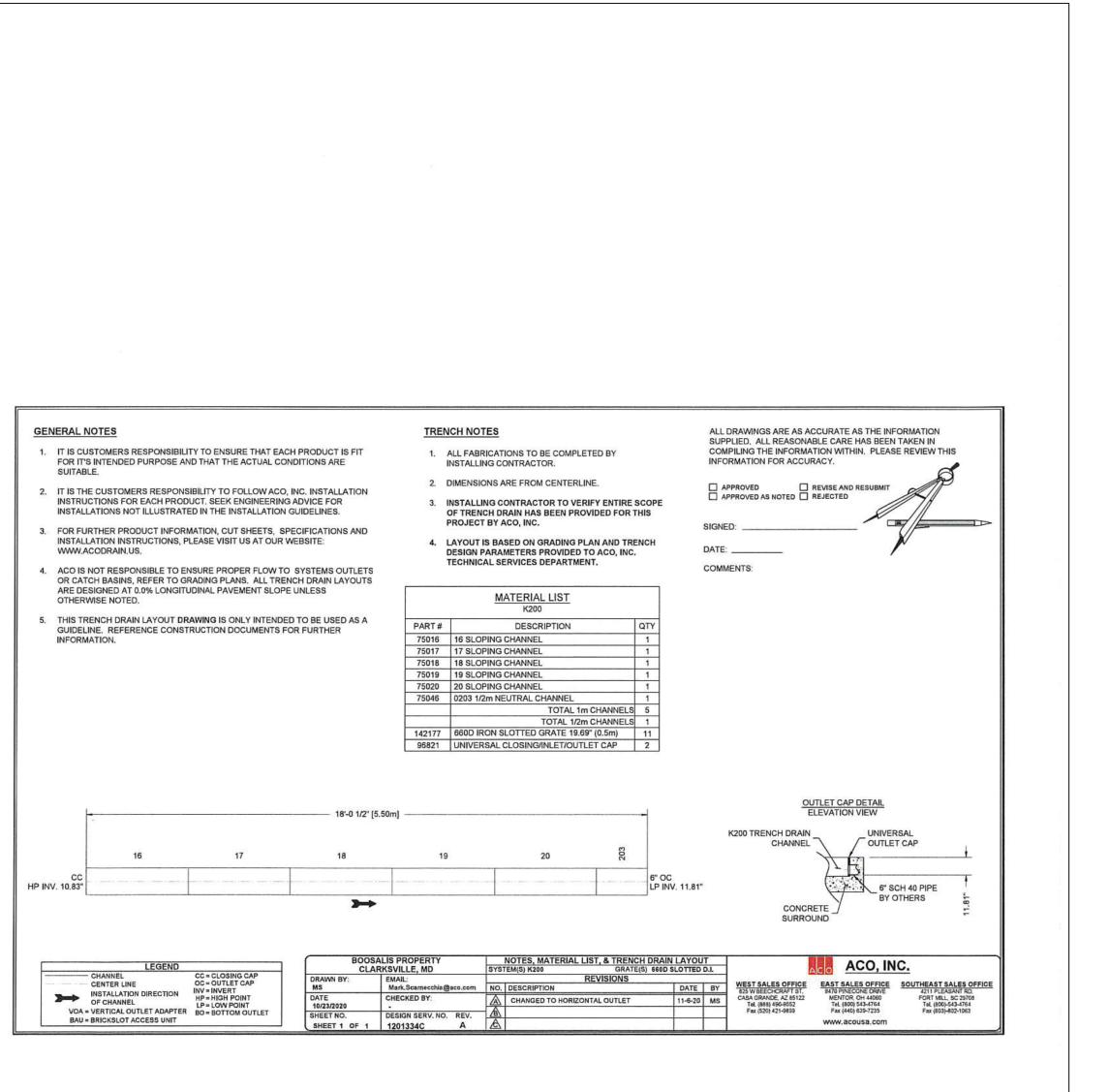
DATE: \_\_\_\_\_APRIL 15, 2024

PROJECT #: 15-043

SHEET #: 6 of 11



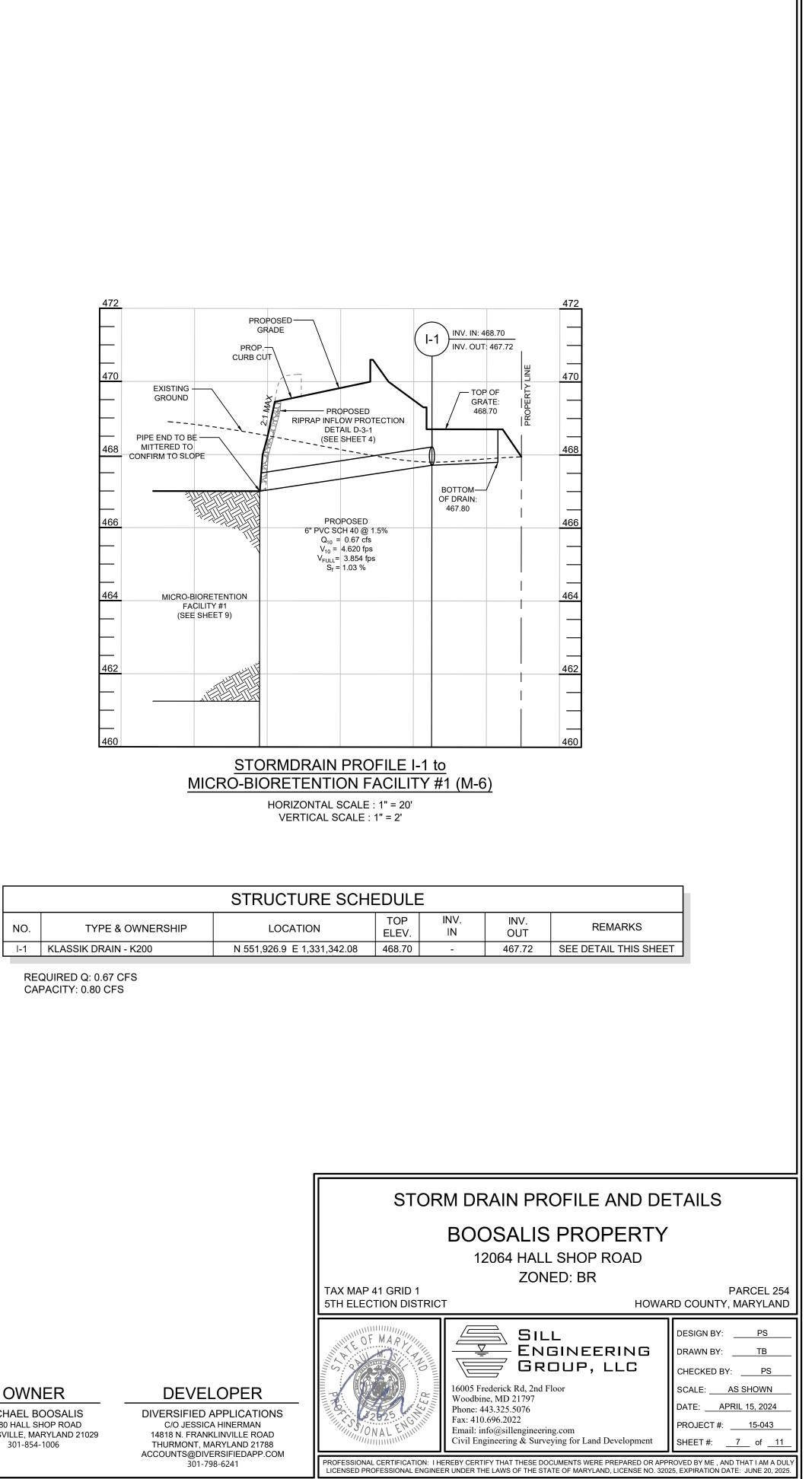
		-		
APPROVED: HOWARD COUNTY DEPARTMENT OF P	LANNING AND ZONING			
CHAD Edmondson	5/14/2024			
	DATE			
h	5/15/2024			
	DATE			
lynda Eisenberg	5/23/2024	NO.	DESCRIPTION	DATE
DIRECTOR	DATE		REVISIONS	



NO.

NOTE: SEE MANUFACTURER FOR DESIGN SPECIFICATIONS

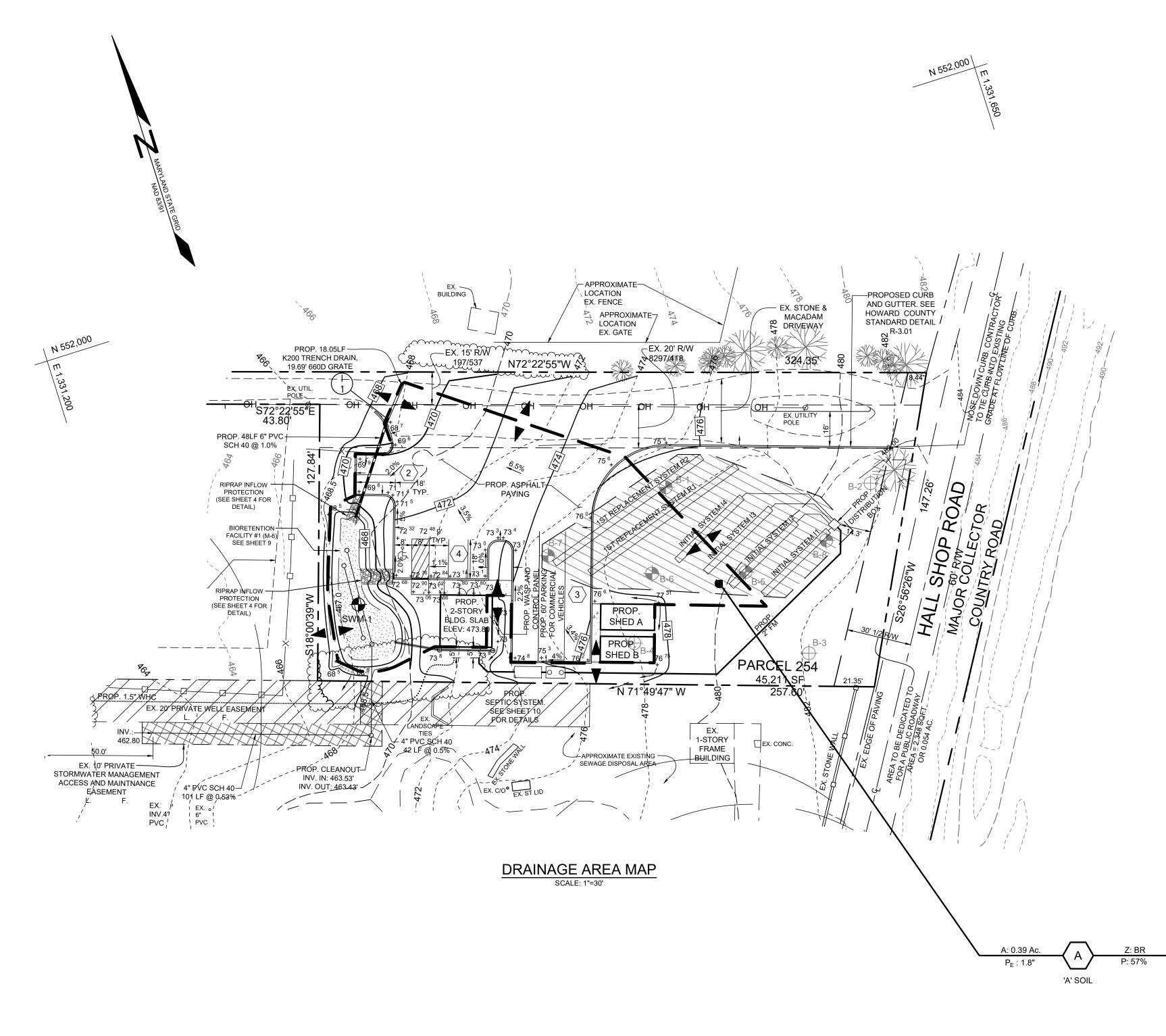
OWNER MICHAEL BOOSALIS 12080 HALL SHOP ROAD CLARKSVILLE, MARYLAND 21029



SDP-21-004

SOILS LEGEND					
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR		
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	0.49		
GbB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	A	0.32		

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



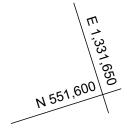
Doculique by:       5/23/2024         COUNTY HEALTH OFFICER       HOWARD COUNTY DEPARTMENT         APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING       Image: Construction of the planning and zoning         Image: Construction of the planning and zoning       5/14/2024         Chief, Development engineering division       Date         S/15/2024       Image: Construction of the planning and zoning         Chief, Division of the planning and zoning       S/15/2024         Chief, Division of the planning and zoning       S/13/2024         Mathematical division of the planning and zoning       S/13/2024         Chief, Division of the planning and zoning       S/13/2024         Mathematical division of the planning and zoning       S/23/2024         No.       Description of the planning and the planning a		DATE		REVISIONS	
Michael Davis       5/23/2024         COUNTY HEALTH OFFICER       FORMULAR COUNTY HEALTH DEPARTMENT         APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING       FORMULAR COUNTY DEPARTMENT OF PLANNING AND ZONING         CHIEF, DEVELOPMENT       5/14/2024         CHIEF, DEVELOPMENT ENGINEERING DIVISION       DATE         CHIEF, DIVISION       5/15/2024         CHIEF, DIVISION       DATE	lynda Eisenberg		NO.	DESCRIPTION	DATE
Midual Davis       5/23/2024         COUNTY HEALTH OFFICER       FORMULAR COUNTY HEALTH DEPARTMENT         APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING       FORMULAR COUNTY DEPARTMENT OF PLANNING AND ZONING         Util Defined by:       5/14/2024         CHIEF, DEVELOPMENT ENGINEERING DIVISION       DATE					
Midual Davis       5/23/2024         COUNTY HEALTH OFFICER       FORMER STREAM         HOWARD COUNTY HEALTH DEPARTMENT       APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING         ULAD ELmon Lson       5/14/2024		5/15/2024			
Midual Davis       5/23/2024         COUNTY HEALTH OFFICER       5/23/2024         HOWARD COUNTY HEALTH DEPARTMENT       4000000000000000000000000000000000000		DATE			
COUNTY HEALTH OFFICER 5/23/2024	DocuSigned by:				
	Michael Davis COUNTY HEALTH OFFICER	5/23/2024			

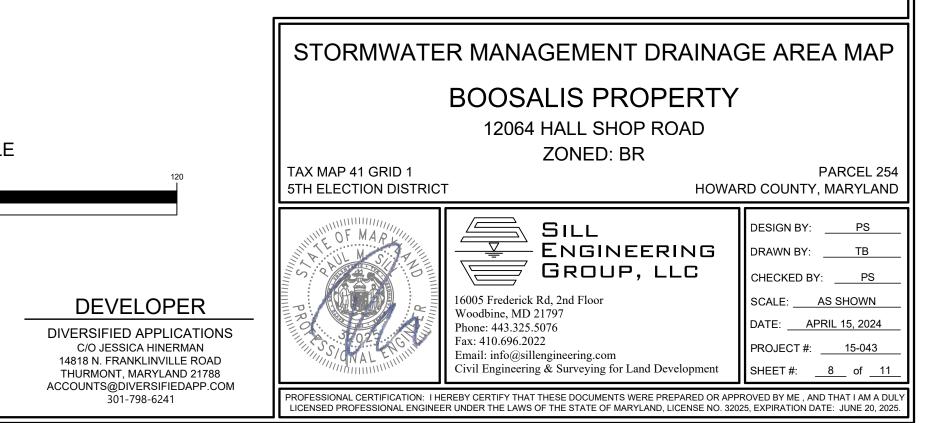


1 INCH = 30 FEET

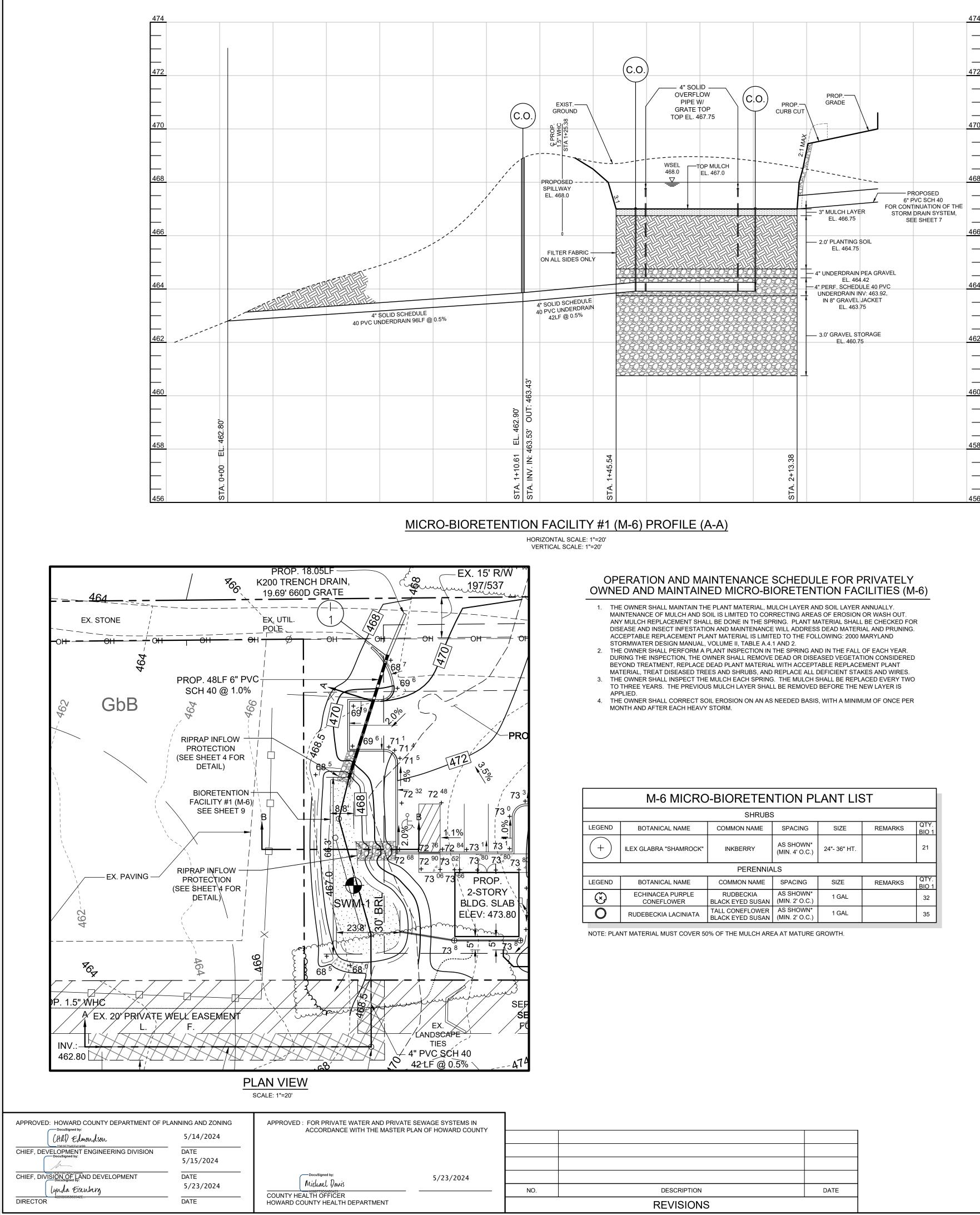
OWNER MICHAEL BOOSALIS 12080 HALL SHOP ROAD CLARKSVILLE, MARYLAND 21029 301-854-1006

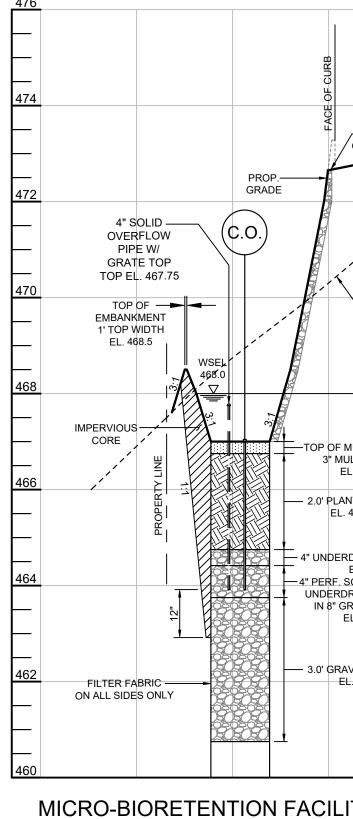
LEGEND		
EXISTING CONTOUR GIS	EXISTING UTILITY POLE	Ø
EXISTING CONTOUR FIELD RUN	382 EXISTING R/W	
	382	
EXISTING SPOT ELEVATION	یری <sup>3</sup> EXISTING TREE	
PROPOSED SPOT ELEVATION +8	2 <sup>53</sup>	XANK.
	ROAD CENTERLINE	
SOIL BOUNDARY	• • EXTENDED OVERHEAD WIRES	——— ОН ———
EXISTING PRIVACY FENCE		
EXISTING SPLIT RAIL FENCE	-X PROPOSED SPILLWAY	
PROPOSED SOIL TEST BORING	WM-1         PROPOSED DRAINAGE DIVIDE	<b>≜</b>
EXISTING PASSED SOIL TEST BORING		V
	STANDARD GUTTER PAN	
EXISTING FAILED SOIL TEST BORING B-1	REVERSED GUTTER PAN	<u>+</u>
	PROPOSED DOOR	$\mathbb{M}$





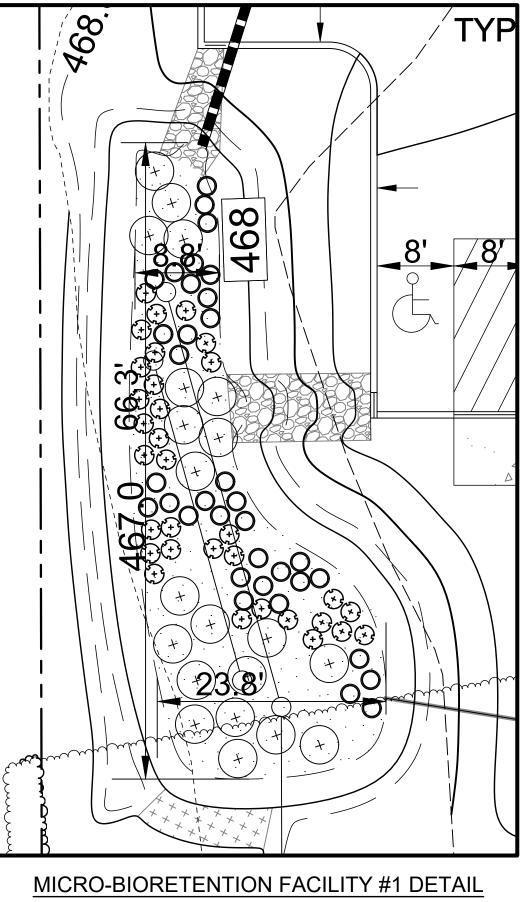
SDP-21-004





HORIZONTAL SCALE VERTICAL SCALE:

M-6 MICRO-BIORETENTION PLANT LIST						
SHRUBS						
BOTANICAL NAME	COMMON NAME	SPACING	SIZE	REMARKS	QTY. BIO 1	
GLABRA "SHAMROCK"	INKBERRY	AS SHOWN* (MIN. 4' O.C.)	24"- 36" HT.		21	
PERENNIALS						
BOTANICAL NAME	COMMON NAME	SPACING	SIZE	REMARKS	QTY. BIO 1	
CHINACEA PURPLE CONEFLOWER	RUDBECKIA BLACK EYED SUSAN	AS SHOWN* (MIN. 2' O.C.)	1 GAL		32	
DEBECKIA LACINIATA	TALL CONEFLOWER BLACK EYED SUSAN	AS SHOWN* (MIN. 2' O.C.)	1 GAL		35	



LANDSCAPING PLAN SCALE: 1"=10'

> OWNER MICHAEL BOOSALIS 12080 HALL SHOP ROAD CLARKSVILLE, MARYLAND 21029 301-854-1006

		 476
		474
- PROP.		
CURB CUT		
		472
1		
/		
		470
EX. GF	ROUND	470
		100
	SPILLWAY EL. 468.0	 468
ULCH EL. 467.0	,	
LCH LAYER 466.75		
		466
ITING SOIL 464.75		
+04.75		
	AVEL .	
EL. 464.42 CHEDULE 40 P\	VC	464
rain INV: 463.92	2,	
RAVEL JACKET L. 463.75		—
/EL STORAGE		462
. 460.75		152
		460

STORMWATER MANAGEMENT SOIL TEST BORING 001: 0.0' - 0.5' TOPSOIL 0.5' - 2.0', RED SOIL, CLAY-LIKE, CLUMPED TOGETHER 2.0' - 6.0', ORANGE SOIL, CLAY-LIKE, CLUMPS FALL APART 6.0' - 6.5', THIN LAYER OF GRAY SOIL, CLAY-LIKE, CLUMPS FALL APART 6.5' - 9.0', ORANGE SOIL, CLAY-LIKE WITH MINERALS, CLUMPS FALL APART 9.0' - 10.0', DEEP RED SOIL, CLAY-LIKE WITH MINERALS, CLUMPS FALL APART AT 10.0', NO ROCK OR WATER

# STORMWATER MANAGEMENT BORING LOG #1

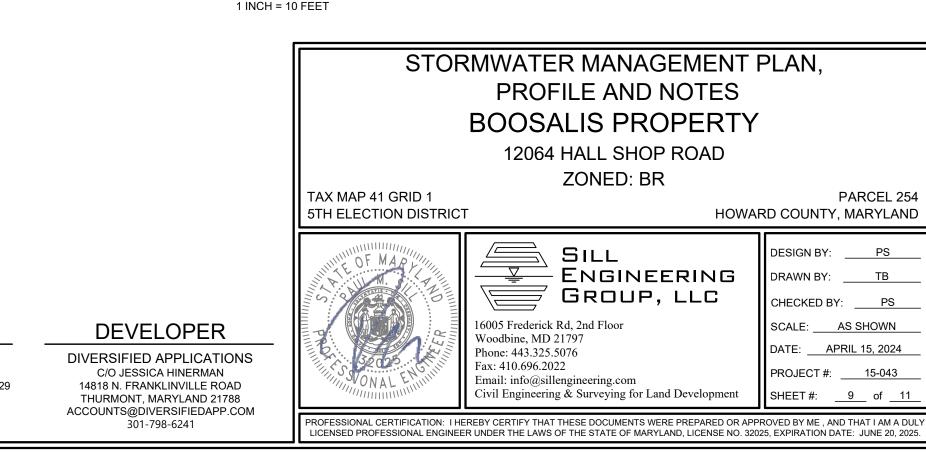
ÉNCOUNTERED

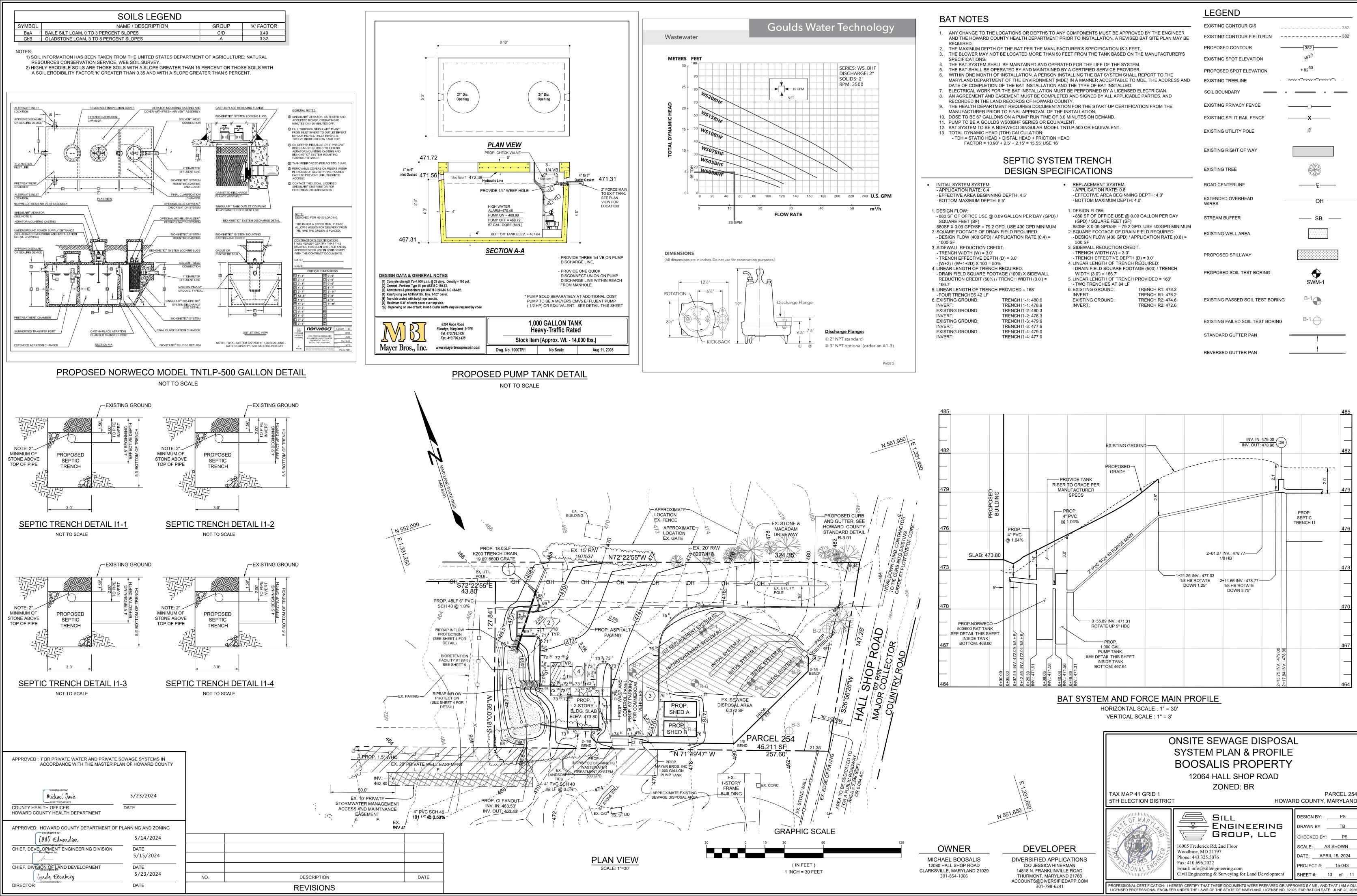
NOT TO SCALE

TY #1	(M-6)	) PROFILE	(B-B)
E: 1"=20' 1"=20'			

MATERIAL	SPECIFICATION	SIZE	NOTES
PLANTINGS	SEE PLANT LIST THIS SHEET	N/A	PLANTINGS ARE SITE-SPECIFIC, SEE PLANT LIST THIS SHEET
PLANTING SOIL [2'-4' TO 4' DEEP]	LOAMY SAND (60% - 65%) & COMPOST (35%-40%) OR SANDY LOAM (30%), COARSE SAND (30%) & COMPOST (40%)	N/A	USDA SOIL TYPES LOAMY SAND OR SANDY LOAM; CLAY CONTENT < 5%
ORGANIC CONTENT	MIN. 10% BY DRY WEIGHT (ASTM-D-2974)		
MULCH	SHREDDED HARDWOOD		AGED 6 MONTHS, MINIMUM; NO PINE OR WOOD CHIPS
PEA GRAVEL DIAPHRAGM	PEA GRAVEL: ASTM-D-448	NO. 8 OR NO. 9 (1/8" TO 3/8")	
CURTAIN DRAIN (IF REQUIRED)	ORNAMENTAL STONE: WASHED COBBLES	STONE: 2" TO 5"	
GEOTEXTILE		N/A	PE TYPE 1 NONWOVEN
UNDERDRAIN GRAVEL	AASHTO M-43	NO. 57 OR NO. 6 AGGREGATE (3/8" TO 3/4")	
UNDERDRAIN PIPING	F 758, TYPE PS 28 OR AASHTO M-278	4" TO 6" RIGID SCHEDULE 40 PVC OR SDR35	SLOTTED OR PERFORATED PIPE, 3/8" PERF. @ 6" ON CENTER, 4 HOLES PER ROW; MINIMUM OF 3" OF GRAVEL OVER PIPES; NOT NECESSARY UNDERNEATH PIPES. PERFORATED PIPE SHALL BE WRAPPED WITH 1/4" GALVANIZED HARDWARE CLOTH.
POURED IN PLACE CONCRETE (IF REQUIRED)	MSHA MX NO.3; F'c= 3500 PSI @ 28 DAYS, NORMAL WEIGHT, AIR-ENTRAINED; REINFORCING TO MEET ASTM-615-60	N/A	ON-SITE TESTING OF POURED-IN-PLACE CONCRETE REQUIRED: 28 DAY STRENGTH AND SLUMP TEST; ALL CONCRETE DESIGN (CAST-IN-PLACE OR PRE-CAST) <i>NOT USING PREVOUSLY APPROVED STATE OR LOCAL</i> <i>STANDARDS</i> REQUIRES DESIGN DRAWINGS SEALED AND APPROVED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF MARYLAND- DESIGN TO INCLUDE MEETING ACI CODE 350.R/89; VERTICAL LOADING [H-10 OR H-20]; ALLOWABLE HORIZONTAL LOADING (BASED ON SOIL PRESSURES); AND ANALYSIS OF POTENTIAL CRACKING.
SAND	AASHTO-M-6 OR ASTM-C-33	0.02" TO 0.04"	SAND SUBSTITUTIONS SUCH AS DIABASE AND GRAYSTONE (AASHTO) #10 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATED OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NO "ROCK DUST" CAN BE USED FOR SAND.

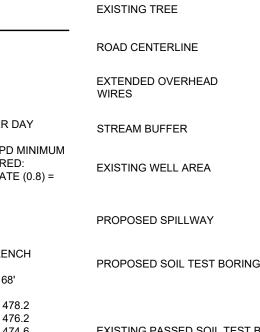
(IN FEET) 1 INCH = 10 FEET





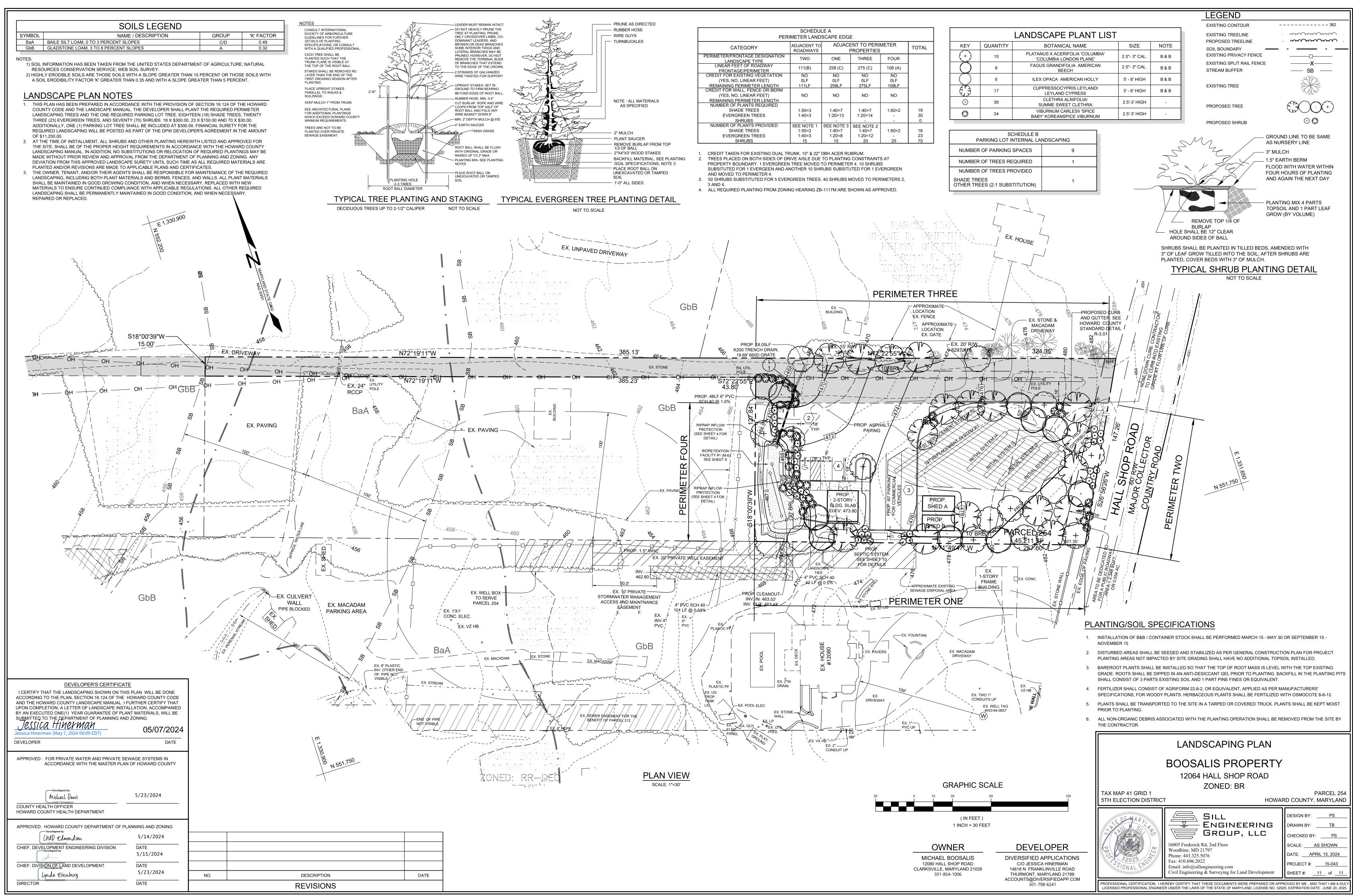
ENGTH OF TRENC
RENCHES 42 LF
GROUND:

	TRENCH   1-1: 478
GROUND:	TRENCH 11-2: 480
	TRENCH 11-2: 478
GROUND:	TRENCH 11-3: 479
	TRENCH 11-3: 477
GROUND:	TRENCH11-4: 479



SDP-21-004

DocuSign Envelope ID: E2F99E1E-B5F9-4835-8713-1731570CFB0F



SDP-21-004

# DocuSign

### **Certificate Of Completion**

Envelope Id: E2F99E1EB5F9483587131731570CFB0F Subject: Complete with DocuSign: SDP-21-004 Source Envelope: Document Pages: 11 Signatures: 47 Certificate Pages: 6 Initials: 0 AutoNav: Enabled Envelopeld Stamping: Enabled Time Zone: (UTC-05:00) Eastern Time (US & Canada)

### **Record Tracking**

Status: Original 5/14/2024 12:38:15 PM

### Signer Events

Alexander Bratchie

abratchie@howardcountymd.gov

Security Level: Email, Account Authentication (None)

Electronic Record and Signature Disclosure: Accepted: 3/26/2021 3:29:42 PM ID: 789287ad-240f-43c9-bcd3-4d780cb397f1

Anthony Cataldo acataldo@howardcountymd.gov

**Division Chief** 

Howard County Government

Security Level: Email, Account Authentication (None)

Electronic Record and Signature Disclosure: Not Offered via DocuSign

CHAD Edmondson

cedmondson@howardcountymd.gov

Security Level: Email, Account Authentication (None)

Electronic Record and Signature Disclosure: Accepted: 5/31/2022 7:58:25 AM ID: 76f4f787-60c8-47dc-8130-5c8ec8e8de04

Michael Davis

mjdavis@howardcountymd.gov

Security Level: Email, Account Authentication (None)

Electronic Record and Signature Disclosure:

Accepted: 3/11/2021 12:32:49 PM ID: 79e1587f-bd09-4569-8db7-512e1ce58a17 Holder: Ashley Barbagallo abarbagallo@howardcountymd.gov

### Signature

— DocuSigned by: Olexander Bratchie — 65648D5BA9B64C1...

Signature Adoption: Pre-selected Style Using IP Address: 167.102.191.10

DocuSigned by:

Signature Adoption: Uploaded Signature Image Using IP Address: 73.133.203.162

—Docusigned by: (HAD Edmondson

7063E754EE41499

Signature Adoption: Pre-selected Style Using IP Address: 167.102.191.18

Sent: 5/14/2024 12:55:23 PM Viewed: 5/15/2024 1:57:40 PM Signed: 5/15/2024 1:58:50 PM

Status: Completed

Envelope Originator:

Ellicott City, MD 21043

IP Address: 167.102.191.18

Sent: 5/14/2024 12:55:23 PM

Viewed: 5/15/2024 8:59:31 AM

Signed: 5/15/2024 9:00:39 AM

abarbagallo@howardcountymd.gov

Ashley Barbagallo

Location: DocuSign

Timestamp

Sent: 5/14/2024 12:55:24 PM Viewed: 5/14/2024 1:59:50 PM Signed: 5/14/2024 2:01:26 PM

DocuSigned by: Michael Davis A099773D5AB5423.

Signature Adoption: Pre-selected Style Using IP Address: 68.134.222.19

Sent: 5/14/2024 12:55:23 PM Viewed: 5/22/2024 12:28:23 PM Signed: 5/23/2024 8:01:36 AM

# - DocuSigned by:

Signer Events	Signature	Timestamp
Lynda Eisenberg leisenberg@howardcountymd.gov Security Level: Email, Account Authentication (None)	DocuSigned by: Yuda Eisenburg 42208635663942E Signature Adoption: Pre-selected Style Using IP Address: 167.102.191.18	Sent: 5/23/2024 8:01:42 AM Viewed: 5/23/2024 9:46:25 AM Signed: 5/23/2024 9:46:44 AM
Electronic Record and Signature Disclosure: Accepted: 6/26/2023 1:54:38 PM ID: 65b25253-387f-4fdd-b8c8-566030656392		
In Person Signer Events	Signature	Timestamp
Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp
Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp
Carrie Vogel Cvogel@howardcountymd.gov Security Level: Email, Account Authentication (None)	COPIED	Sent: 5/23/2024 9:46:51 AM
Electronic Record and Signature Disclosure: Accepted: 7/24/2023 7:09:39 AM ID: 074f16ab-63a1-450f-9935-df05f4cf1d82 Dave Dell	COPIED	Sent: 5/23/2024 9:46:52 AM
ddell@howardcountymd.gov Security Level: Email, Account Authentication (None) Electronic Record and Signature Disclosure: Not Offered via DocuSign		
Kathryn Bolton kbolton@howardcountymd.gov Security Level: Email, Account Authentication (None)	COPIED	Sent: 5/23/2024 9:46:52 AM
Electronic Record and Signature Disclosure: Accepted: 11/20/2023 9:36:28 AM ID: 5cf541f1-7f35-45d0-80e2-e3cc99176cdb		
Lisa Kenney Ikenney@howardcountymd.gov Planning Support Tech II Howard County government Security Level: Email, Account Authentication (None)	COPIED	Sent: 5/23/2024 9:46:52 AM Viewed: 5/23/2024 10:09:02 AM
Electronic Record and Signature Disclosure: Not Offered via DocuSign Terry Bromery tbromery@howardcountymd.gov Security Level: Email, Account Authentication (None) Electronic Record and Signature Disclosure:	COPIED	Sent: 5/23/2024 9:46:51 AM
Not Offered via DocuSign		

Witness Events	Signature	Timestamp	
Notary Events	Signature	Timestamp	
Envelope Summary Events	Status	Timestamps	
Envelope Sent	Hashed/Encrypted	5/14/2024 12:55:24 PM	
Certified Delivered	Security Checked	5/23/2024 9:46:25 AM	
Signing Complete	Security Checked	5/23/2024 9:46:44 AM	
Completed	Security Checked	5/23/2024 9:46:52 AM	
Payment Events	Status	Timestamps	
Flastenia Basend and Cimeture Disalesure			

Electronic Record and Signature Disclosure

### **CONSUMER DISCLOSURE**

From time to time, Howard County Government (we, us or Company) may be required by law to provide to you certain written notices or disclosures. Described below are the terms and conditions for providing to you such notices and disclosures electronically through the DocuSign, Inc. (DocuSign) electronic signing system. Please read the information below carefully and thoroughly, and if you can access this information electronically to your satisfaction and agree to these terms and conditions, please confirm your agreement by clicking the 'I agree' button at the bottom of this document.

# **Getting paper copies**

At any time, you may request from us a paper copy of any record provided or made available electronically to you by us. You will have the ability to download and print documents we send to you through the DocuSign system during and immediately after signing session and, if you elect to create a DocuSign signer account, you may access them for a limited period of time (usually 30 days) after such documents are first sent to you. After such time, if you wish for us to send you paper copies of any such documents from our office to you, you will be charged a \$0.00 per-page fee. You may request delivery of such paper copies from us by following the procedure described below.

# Withdrawing your consent

If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

# Consequences of changing your mind

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. To indicate to us that you are changing your mind, you must withdraw your consent using the DocuSign 'Withdraw Consent' form on the signing page of a DocuSign envelope instead of signing it. This will indicate to us that you have withdrawn your consent to receive required notices and disclosures electronically from us and you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

# All notices and disclosures will be sent to you electronically

Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures

electronically from us.

# How to contact Howard County Government:

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:

To contact us by email send messages to: glovelace@howardcountymd.gov

# To advise Howard County Government of your new e-mail address

To let us know of a change in your e-mail address where we should send notices and disclosures electronically to you, you must send an email message to us at glovelace@howardcountymd.gov and in the body of such request you must state: your previous e-mail address, your new e-mail address. We do not require any other information from you to change your email address. In addition, you must notify DocuSign, Inc. to arrange for your new email address to be reflected in your DocuSign account by following the process for changing e-mail in the DocuSign system.

# To request paper copies from Howard County Government

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an e-mail to glovelace@howardcountymd.gov and in the body of such request you must state your e-mail address, full name, US Postal address, and telephone number. We will bill you for any fees at that time, if any.

# To withdraw your consent with Howard County Government

To inform us that you no longer want to receive future notices and disclosures in electronic format you may:

i. decline to sign a document from within your DocuSign session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may; ii. send us an e-mail to glovelace@howardcountymd.gov and in the body of such request you must state your e-mail, full name, US Postal Address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

Operating Systems:	Windows® 2000, Windows® XP, Windows
	Vista®; Mac OS® X
Browsers:	Final release versions of Internet Explorer® 6.0
	or above (Windows only); Mozilla Firefox 2.0
	or above (Windows and Mac); Safari <sup>™</sup> 3.0 or
	above (Mac only)
PDF Reader:	Acrobat <sup>®</sup> or similar software may be required
	to view and print PDF files
Screen Resolution:	800 x 600 minimum
Enabled Security Settings:	Allow per session cookies

# **Required hardware and software**

\*\* These minimum requirements are subject to change. If these requirements change, you will be asked to re-accept the disclosure. Pre-release (e.g. beta) versions of operating systems and browsers are not supported.

# Acknowledging your access and consent to receive materials electronically

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please verify that you were able to read this electronic disclosure and that you also were able to print on paper or electronically save this page for your future reference and access or that you were able to e-mail this disclosure and consent to an address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format on the terms and conditions described above, please let us know by clicking the 'I agree' button below.

By checking the 'I agree' box, I confirm that:

- I can access and read this Electronic CONSENT TO ELECTRONIC RECEIPT OF ELECTRONIC CONSUMER DISCLOSURES document; and
- I can print on paper the disclosure or save or send the disclosure to a place where I can print it, for future reference and access; and
- Until or unless I notify Howard County Government as described above, I consent to receive from exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to me by Howard County Government during the course of my relationship with you.