

JUN 25 2020

PERMIT NUMBER: B 20007689

DATE ACCEPTED:

LICENSES & PERMITS DIVISION



RESIDENTIAL BUILDING PERMIT APPLICATION

HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, AND PERMITS

3430 COURT HOUSE DRIVE, ELLICOTT CITY, MD 21043 - PHONE: (410) 313-2455 OPTION #4 www.howardcountymd.gov

BUILDING SITE ADDRESS REQUIRED

Street Address: 14529 Ambreen Way, City: Cooksville, State: MD, Zip Code: 21723, Subdivision/Village/Complex Name: Ambreen Woods, SDP/WP/BA #: , Lot: 2, Tax Map: 08, Parcel: 237, Grading Permit #:

DESCRIPTION OF WORK REQUIRED

Existing Use: Vacant, Proposed Use: Single Family Dwelling, Estimated Cost: \$210,000.00, Trade Work to Be Completed (Separate Permits Required): Mechanical (HVAC) Electrical Plumbing None ?

2-STORY SPD, SENECA I MODEL, (PER WKSHT)

PROPERTY OWNER INFORMATION REQUIRED

Owner(s) Name(s) (As it appears on tax records): Burkard Homes, LLC, Primary Residence: No, Owner's Street Address: 1511 Ritchie Highway, Suite 305, City: Arnold, State: MD, Zip Code: 21012, Phone: (240) 375-1052, Email: tim@burkardhomes.com

APPLICANT NAME REQUIRED - INDIVIDUAL WHO SIGNS THIS APPLICATION

Business Name: Burkard Homes, LLC, Contact Name: Tim Burkard, Street Address: 1511 Ritchie Highway, Suite 305, City: Arnold, State: MD, Zip Code: 21012, Phone: (240) 375-1052, Email: tim@burkardhomes.com

CONTRACTOR INFORMATION REQUIRED

Business Name: Burkard Homes, LLC, Licensee's Name: Same as above, License #: 6300, Street Address: , City: , State: , Zip Code: , Phone: , Email:

ARCHITECT/ENGINEER INFORMATION INDIVIDUAL WHO SIGNED PLANS, IF APPLICABLE

Business Name: Mildenberg, Boender & Assoc., LLC, Name: , Street Address: 7350-B Grace Drive, City: Columbia, State: MD, Zip Code: 21044, Phone: (410) 997-0296, Email:

BUILDING CHARACTERISTICS REQUIRED

Primary Structure: SF Dwelling SF Townhouse SF Duplex Mobile Home Multi-Family Dwelling (MF\*) Condo: No, Utilities: Electric Gas Water Supply: Public Private (Well) Sewage Disposal: Public Private (Septic), Heating System: Electric Natural Gas Propane Other: Roadside Tree Project: No Yes: #, Sprinkler System: NFPA 13 NFPA 13R NFPA 13D None Fire Alarm System: Yes No Voice Evac

ADDITIONAL RESIDENTIAL INFORMATION (PLEASE SELECT/COMPLETE ALL THAT APPLY)

Model Name & Options: Seneca I, Elv. 3, 2' rear extension, fireplace, walk-out, # of Bedrooms (SF): 4, # of efficiency units (MF\*): , # of 1 BR (MF\*): , # of 2 BR (MF\*): , # of 3 BR (MF\*): , # Rooms: 12, # Full Baths: 3, # Half Baths: 1, # Fireplaces: 1, Garage/Carport Info: Attached Garage Detached Garage Integral Garage Carport None, Basement/Foundation Info: Slab on Grade Post & Pier Unfinished Basement Finished Basement: Full or Partial, 1st Fl Width: 48, 1st Fl Depth: 46, 2nd Fl Width: 48, 2nd Fl Depth: 46, Bsmt Width: 48, Bsmt Depth: 46, Energy Method: Prescriptive Performance UA Alternative ERI, Gross Area: 4,218 sq ft, Occupiable Area: 4,218 sq ft

AGREEMENT/ DISCALIMER REQUIRED

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

APPLICANT'S ORIGINAL SIGNATURE: [Signature], DATE SIGNED: 6/23/20

FOR OFFICE USE ONLY

CHECKS PAYABLE TO: DIRECTOR OF FINANCE OF HOWARD COUNTY

AGENCIES REQUIRED/APPROVALS:

PR DPZ DED Health DBenard SHA CID

SUBMITTAL FEES: \$150.00, PAYMENT: CK# 10429, ACCEPTED BY: DropBox

## Wolf, Kevin

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**From:** Tim Burkard <tim@burkardhomes.com>  
**Sent:** Tuesday, March 23, 2021 9:57 AM  
**To:** Wolf, Kevin  
**Subject:** Fwd: Permit # B2000089

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hi Kevin,

The work was done yesterday and it has since been labeled as well. Please let me know if you need anything else to issue the letter. Thanks.

Tim

----- Forwarded message -----

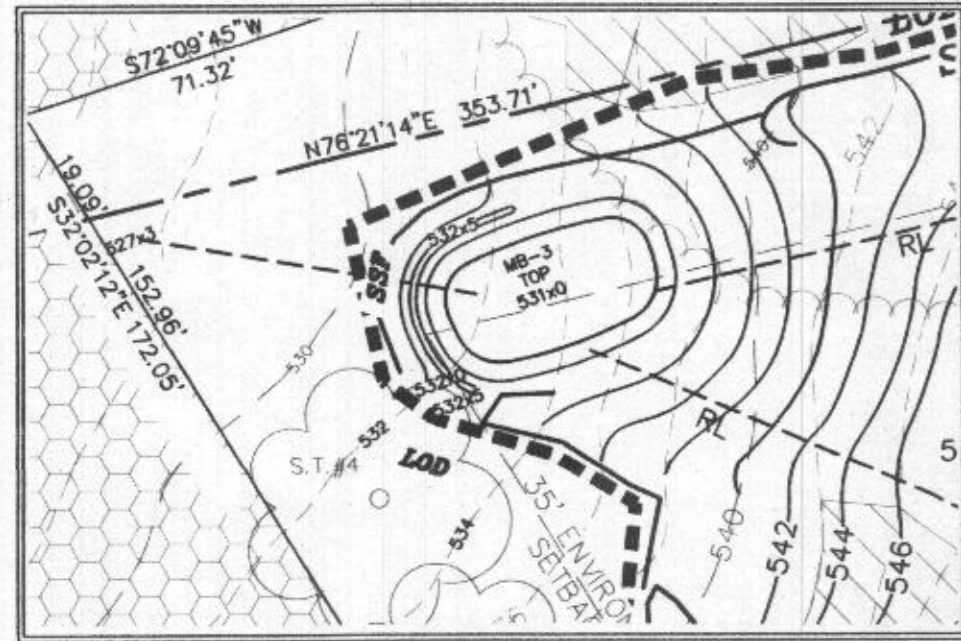
**From:** **Tyler Williams** <Tyler@mileselectric.com>  
**Date:** Tue, Mar 23, 2021 at 5:17 AM  
**Subject:** Re: Permit # B2000089  
**To:** Jeff Haines <jeff@mileselectric.com>  
**Cc:** Tim Burkard <tim@burkardhomes.com>, Walt Weise <walt@burkardhomes.com>

Tim/ Walt

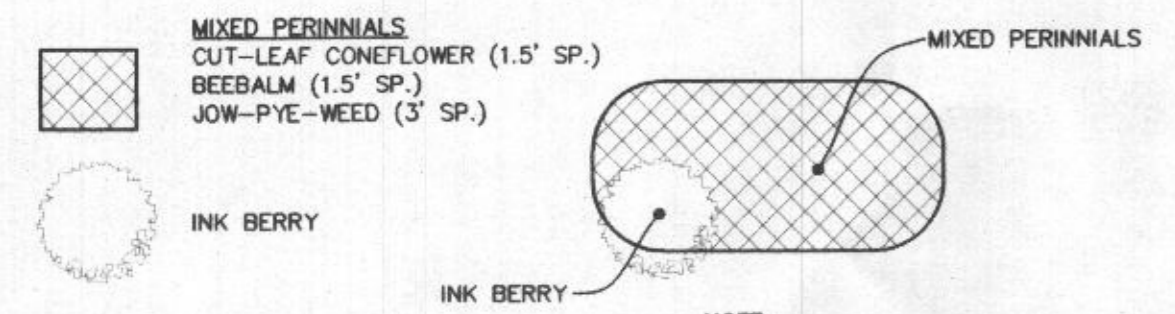
Attached is the of pictures of the septic alarm label in the panel

**SEWER SYSTEM ELEVATIONS**

DESCRIPTION	ELEVATION
BASEMENT ELEVATION	548.33
INVERT OUT OF THE HOUSE	545.83
INVERT INTO SEPTIC TANK	545.23
INVERT OUT OF SEPTIC TANK	544.97
FINISHED GRADE AT SEPTIC TANK	549.43
TOP OF THE SEPTIC TANK	546.43
INVERT INTO PUMP TANK	544.93
INVERT OUT OF PUMP TANK	546.50
FINISHED GRADE AT PUMP TANK	551.00
TOP OF THE PUMP TANK	546.17
INVERT INTO DISTRIBUTION BOX	559.00



**MICRO-BIOTENTION (MB-3) PLAN**  
SCALE: 1"=30'



**TYP. MICRO-BIOTENTION (M-6) DETAIL**  
SCALE: NTS

**SWM PRACTICES SCHEDULE**

FACILITY#	AREA	REQUIRED ESDv	PROVIDED ESDv
MB #3	LOT 2 UIC DRIVEWAY	797 C.F.	825 C.F.

**MICRO-BIOTENTION SCHEDULE**

FACILITY	TOP EL. (SURFACE)	WEIR EL. (PONDING)	BERM EL.	UND.DRAIN INV. IN	UND.DRAIN INV. OUT	SURFACE AREA	PONDING AREA	PONDING DEPTH	GRAVEL DEPTH BELOW UNDERDRAIN
MB#3	531.00	532.00	532.50	528.08	527.80	525 S.F.	817 S.F.	12"	12"

**SOILS TABLE (WITHIN LOD)**

SYMBOL	RATING	NAME	K FACTOR	MAP #
GgC	(B)	GLENELG LOAM, 8-15% SLOPES.	.24	3
GmC	(C)	GLENVILLE SILT LOAM, 8-15% SLOPES	.43	3
MoC	(B)	MANOR LOAM, 8-15% SLOPES	.28	3

**ENGINEER'S CERTIFICATE**

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

6/11/2020  
5/28/2020  
SIGNATURE OF ENGINEER DATE  
MICHAEL G. KRETSCH, PE  
PRINTED NAME OF ENGINEER

**DEVELOPER'S CERTIFICATE**

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. HOWARD SOIL CONSERVATION DISTRICT IS AUTHORIZED TO CONDUCT PERIODIC ON-SITE INSPECTION.

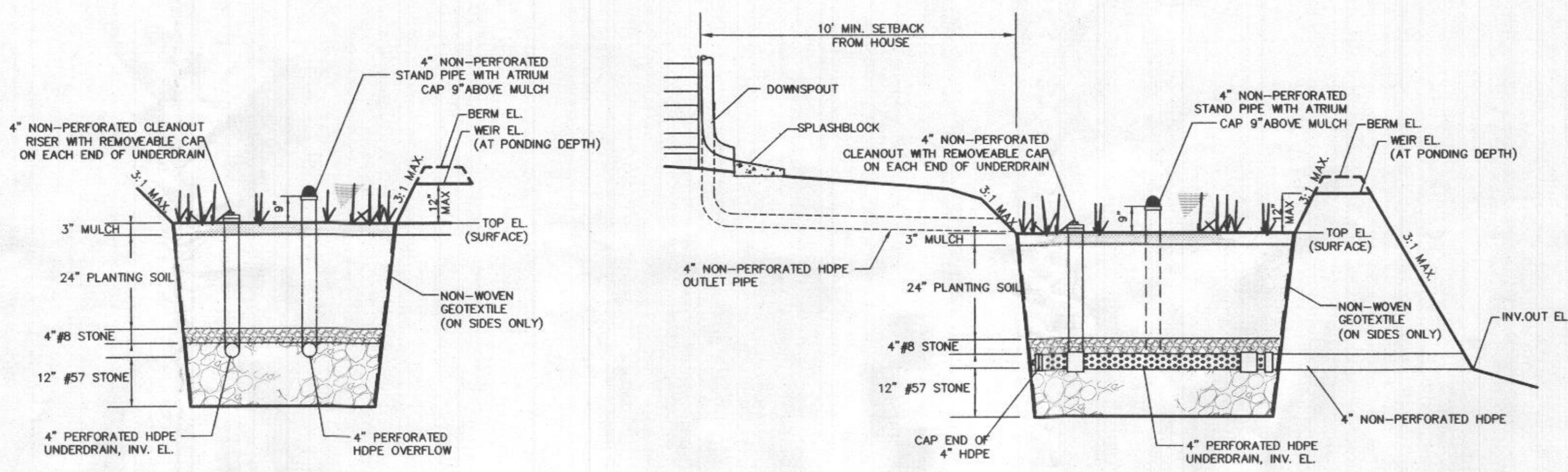
6/12/2020  
SIGNATURE OF DEVELOPER DATE  
TIM BURKARD  
PRINTED NAME OF DEVELOPER

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
6/17/20  
HOWARD SOIL CONSERVATION DISTRICT

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. 34027, EXP. DATE 01/16/2021  
5/28/2020  
DATE:  
MICHAEL G. KRETSCH, P.E.

**OWNER/DEVELOPER**

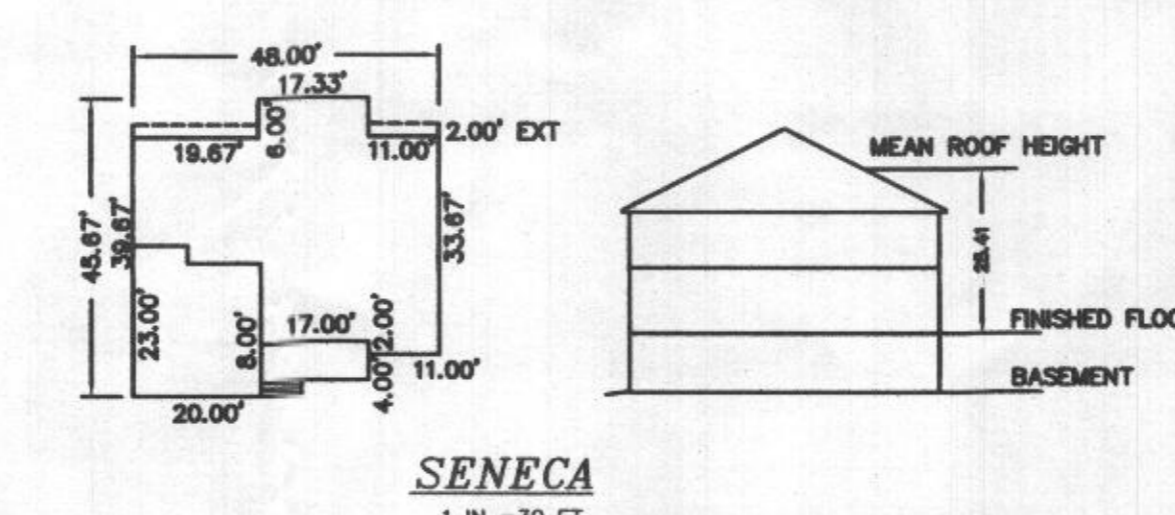
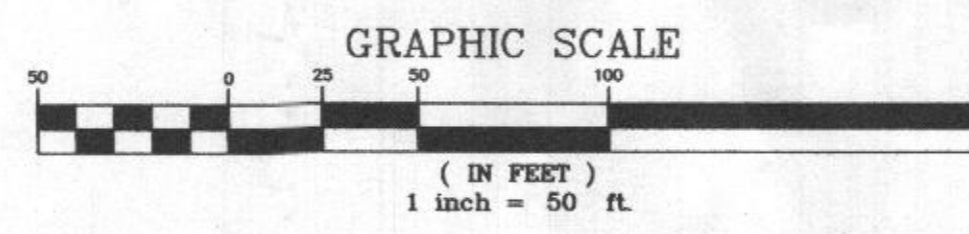
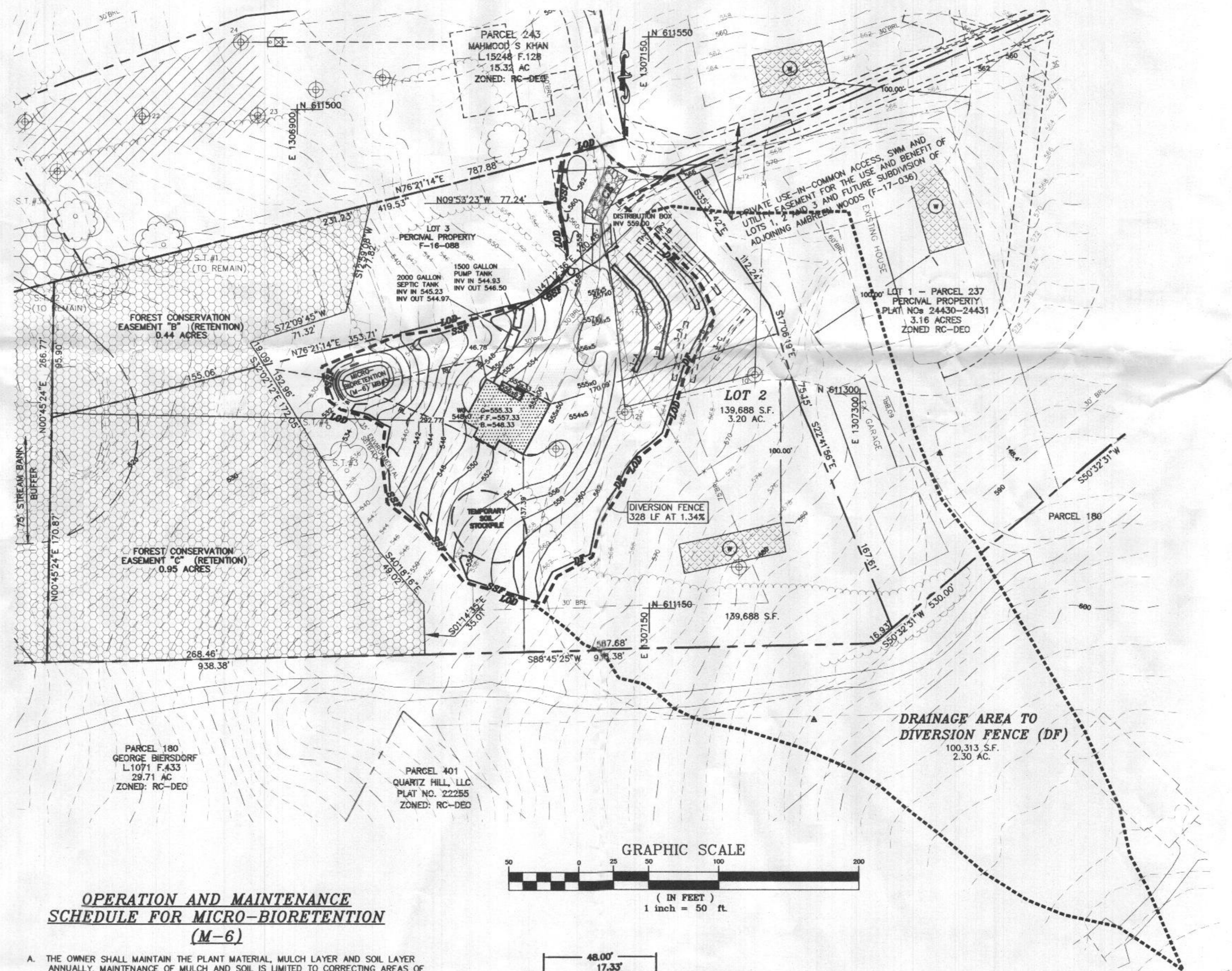
BURKARD HOMES  
1511 RITCHIE HIGHWAY #305  
ARNOOLD, MD 21045  
240-375-1052



**TYPICAL MICRO-BIOTENTION SECTION**  
NTS

**TYPICAL MICRO-BIOTENTION PROFILE**  
NTS

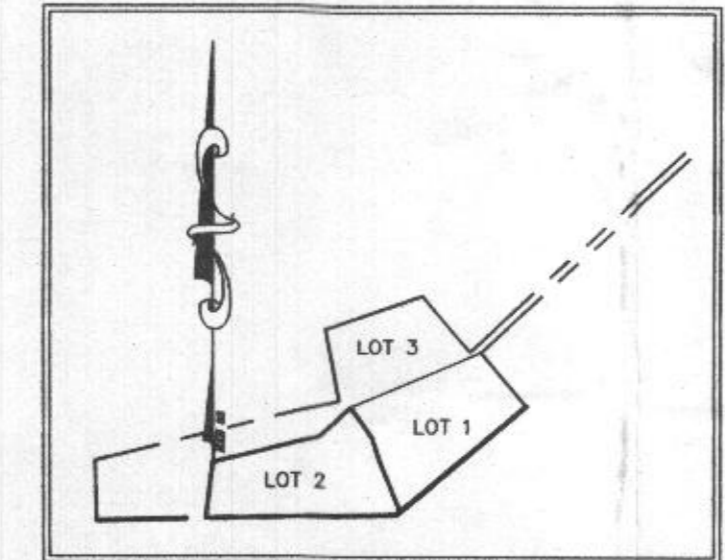
NOTE- THE ENTIRE DRAINAGE AREA MUST BE FULLY STABILIZED BEFORE RUNOFF CAN BE DIRECTED TO THE FACILITY.



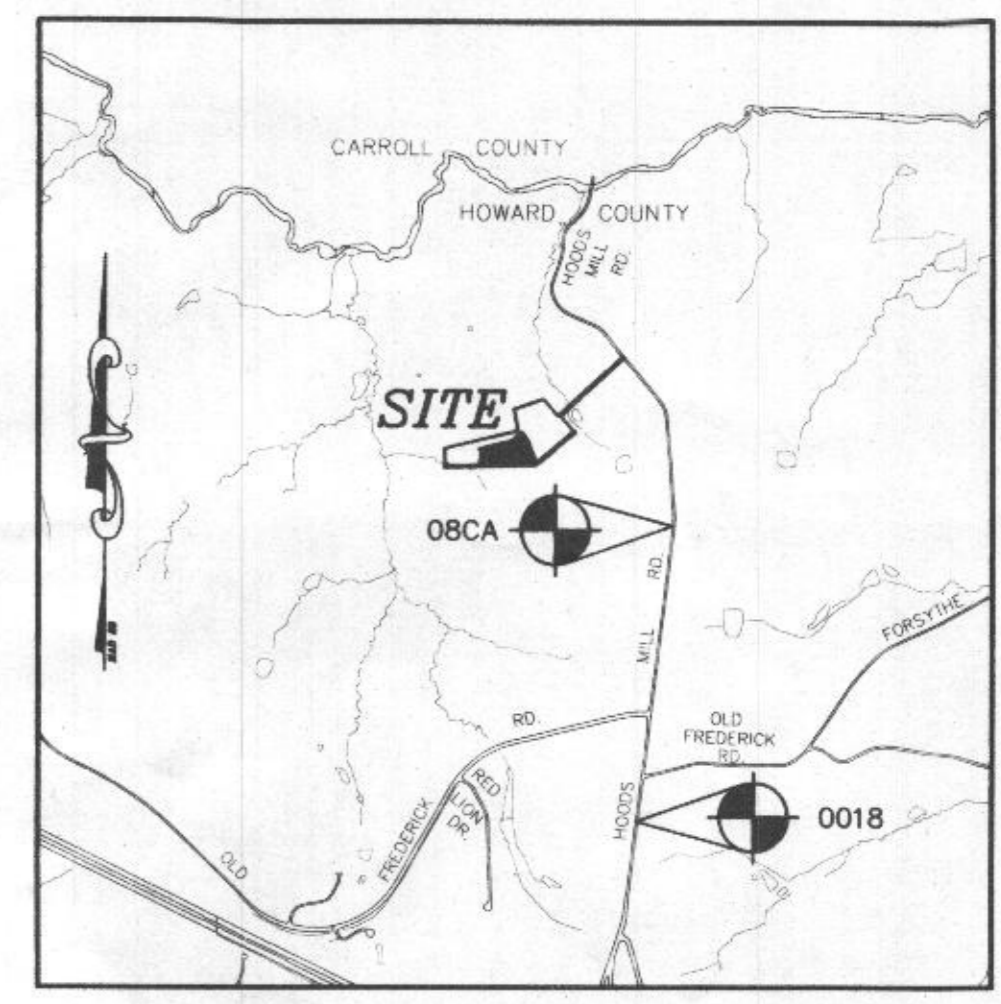
**SENECA**  
1 IN = 30 FT

**OPERATION AND MAINTENANCE SCHEDULE FOR MICRO-BIOTENTION (M-6)**

- THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUME II, TABLE A.4.1 AND 2.
- THE OWNER SHALL PERFORM A PLANT INSPECTION IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL, TREAT DISEASED TREES AND SHRUBS, AND REPLACE ALL DEFICIENT STAKES AND WIRES.
- THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED.
- THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.



**LOCATION PLAN**  
SCALE: 1"=600'



**VICINITY MAP**  
SCALE: 1"=2000'  
ADC MAP: 10 GRID: B-4

**GENERAL NOTES:**

- THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN.
- PARCEL BACKGROUND:**  
TAX MAP: 8  
PARCEL: 237  
DEED REFERENCE: L 17425, F 88  
ELECTION DISTRICT: FOURTH  
ZONING: RC-DEO  
AREA: 3.00 ACS  
DPZ FILES: ECP-15-059, F-16-088
- 2' TOPOGRAPHY FOR THE DEVELOPED AREAS IS BASED ON FIELD RUN SURVEY PERFORMED BY MILDENBERG, BOENDER & ASSOC., INC. ON OR ABOUT DECEMBER 2014.
- PRIVATE WELL AND SEPTIC WILL BE UTILIZED.
- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS EASEMENT 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 SEWERAGE EASEMENT. RECORDATION OF A MODIFIED EASEMENT SHALL NOT BE NECESSARY.
- ANY CHANGES TO THE LOCATION OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED PLAN MAY BE REQUIRED.
- THE MAXIMUM EARTH COVER OVER THE SEPTIC TANK OR PUMP TANK IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- THE MAXIMUM EARTH COVER OVER A HEAVY LOAD BEARING TANK IS FIVE (5) FEET. GREATER EARTH COVER IS NOT ALLOWED.
- ANY WELLS OR SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELL AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
- ALL TRENCHES ARE FED BY GRAVITY FROM THE DISTRIBUTION BOX.
- STORM WATER MANAGEMENT (SWM) FOR THIS LOT IS PROVIDED BY MICRO-BIOTENTION FACILITY #3 (M-6), WHICH WAS APPROVED UNDER F-16-088.
- SWM DETAILS ARE SHOWN FOR COORDINATION PURPOSES.

**WELL CERTIFICATION**

THE EXISTING WELL, TAG # HO-15-0365 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.

**LEGEND**

- 548 550 PROPOSED CONTOURS
- 546x35 PROPOSED SPOT ELEVATION
- 100' LIMIT OF DISTURBANCE (LOD)
- SCF SILT FENCE
- SCF STABILIZED CONSTRUCTION ENTRANCE
- RE ROOF LEADER
- WELL
- WELL REPLACEMENT ZONE
- PRIMARY SEPTIC TRENCH
- SECONDARY SEPTIC TRENCH
- TERTIARY SEPTIC TRENCH

**DIVERSION FENCE (DF) CALCULATION**

TR-55 METHODOLOGY  
DRAINAGE AREA = DA = 100313 S.F.  
IMPERVIOUS AREA = 6272 S.F.  
IMPERVIOUS PCT = 6.25 %  
Rv = 0.009x I + 0.05 = 0.106  
P2YR = 3.19 INCHES  
Qp = P\*RV = 0.339  
CN = 58  
Ia = (200/CN) - 2 = 1.446  
Ia/P = 0.463  
Qp = (CSM IN FROM EXHIBIT 4-1, TR55)  
Qp = 700 CSM IN  
DA=100313 S.F., 2.30 ACS = 0.003598234 SQ.MI.  
Qp 2YR = P 2YR\*RV = 0.854 CFS

CHANNEL FENCE AND 12.5 % (8:1) SLOPE  
Q = Aw\*V = Aw\*(1.49/n)\*((Aw/Pw)^0.67)\*S^1.49  
Q = DEPTH Aw = SIDE SLOPE x d^2  
Pw = SIDE SLOPE x d  
S = 0.134 FT/FT LONGITUDINAL SLOPE  
d = 0.51 FT  
Aw = 1.04 S.F.  
Pw = 1.613 FT  
Q 2YR = 0.9 CFS  
V 2YR = 0.9 FPS  
0.9 FPS IS NON EROSIIVE

Project	19-010	date	JUN 2020
Illustration	MCK	engineering	MCK
scale	1"= 50 ft	approval	MCK
revisions		date	

**PERCOL PROPERTY LOT 2**  
14529 AMBREEN WAY  
TAX MAP 08, GRID 05, PARCEL 237  
HOWARD COUNTY, MARYLAND  
FOURTH ELECTION DISTRICT  
**PLOT PLAN / GRADING PLAN**

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
7850-B Grace Drive, Columbia, MD 21044  
(410) 997-0296 Tel. (410) 997-0296 Fax

