

RECEIVED

PERMIT NUMBER: B21003067

DATE ACCEPTED: SEP 24 2021



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: 17549 Hardy Road
City: Mount Airy State: MD Zip Code: 21771
Subdivision/Village/Complex Name: Dodd SDP/WP/BA #: SGP-22-015
Lot: 1 Tax Map: 6 Parcel: 277 Grading Permit #: 62100020

DESCRIPTION OF WORK REQUIRED
Existing Use: VACANT LAND Proposed Use: SFD Estimated Cost: \$ 350,000.00
Trade Work to Be Completed (Separate Permits Required): Mechanical (HVAC) Electrical Plumbing None
Gondi Residence, 2 story, 14 room, 4 bedroom, 4 full bath, 3 car attached, gas fireplace, perscriptive energy.
Basement 63'widex 40'deep, 1st- 63' widex 40'deep, 2nd - 63'widex40' deep. total sf - 5757 Occupiable - 5637sf

PROPERTY OWNER INFORMATION REQUIRED
Owner(s) Name(s) (As it appears on tax records): LakshmiNarayana Gondi & Naga Swetha Uppalapati Primary Residence: Yes No
Owner's Street Address: 7424 Rigby Place
City: Elkridge State: MD Zip Code: 21075
Phone: (410) 977-2188 Email: cary@vikingcustomhomes.com

APPLICANT NAME REQUIRED - INDIVIDUAL WHO SIGNS THIS APPLICATION
Business Name: Viking Development Corporation Contact Name: Cary Cumberland
Street Address: 815 Windriver Drive
City: Sykesville State: MD Zip Code: 21784
Phone: (410) 977-2188 Email: cary@vikingcustomhomes.com

CONTRACTOR INFORMATION REQUIRED
Business Name: Viking Development Corporation
Licensee's Name: Cary Cumberland License #: 1185
Street Address: 815 Windriver Drive
City: Sykesville State: MD Zip Code: 21784
Phone: (410) 977-2188 Email: cary@vikingcustomhomes.com

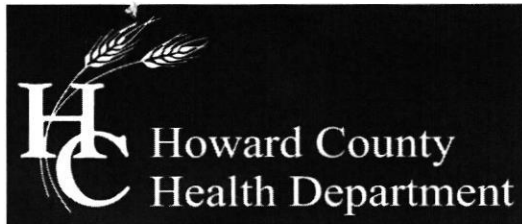
ARCHITECT/ENGINEER INFORMATION INDIVIDUAL WHO SIGNED PLANS, IF APPLICABLE
Business Name: Caddworks Name: Dennis Repogle
Street Address:
City: Frederick State: MD Zip Code:
Phone: Email:

BUILDING CHARACTERISTICS REQUIRED
Primary Structure: SF Dwelling SF Townhouse SF Duplex Mobile Home Multi-Family Dwelling (MF*) Condo: Yes 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: Gondi Residence
of Bedrooms (SF): 4 # of efficiency units (MF*): # of 1 BR (MF*): # of 2 BR (MF*): # of 3 BR (MF*):
Rooms: 14 # Full Baths: 4 # Half Baths: 0 # 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: 63 1st Fl Depth: 40 2nd Fl Width: 63 2nd Fl Depth: 40 Bsmt Width: 63 Bsmt Depth: 40
Energy Method: Prescriptive Performance UA Alternative ERI Gross Area: 5,757 sq ft Occupiable Area: 5,637 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.
Cary K Cumberland 09-23-2021
APPLICANT ORIGINAL SIGNATURE DATE SIGNED

FOR OFFICE USE ONLY CHECKS PAYABLE TO: DIRECTOR OF FINANCE OF HOWARD COUNTY
AGENCIES REQUIRED/APPROVALS: PR DPZ DED Health SHA CID
SUBMITTAL FEES: PAYMENT: 13015 ACCEPTED BY:



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

MEMORANDUM

TO: William and Susan Dodd Property
17549 Hardy Rd.
Mount Airy, MD 21771

FROM: Robert Freemon *RIF*
Well & Septic Program

RE: Potential Basement Bedroom
17549 Hardy Rd.
Mount Airy, MD 21771

DATE: 10/8/2021

I have reviewed the floor plans in support of Building Permit **B21003667** for a new home at **17549 Hardy Rd.** and noted that there is a rough-in for a full bathroom in the unfinished basement. Please note that this makes it very likely for one or more rooms to be considered bedrooms upon conversion of the basement to finished living space.

For reference, the following is the bedroom definition in Howard County Code Section 3.801(b):

- (1) Except as provided in paragraph (2) of this subsection, a bedroom is any space in the conditioned are of a dwelling unit or accessory structure that:
 - (i) Is 90 square feet or greater in size;
 - (ii) May be used as a private sleeping area; and
 - (iii) Has at least one window and one interior door.
- (2) If a home office, library, or similar room is proposed, it may not be a bedroom if there is no closet; and
 - (i) The room contains permanently built-in bookcases around the perimeter of the room, desks, and other features that encumber the room;
 - (ii) A minimum 4 foot-wide opening, without doors, into another room;
 - (iii) A half wall (4 foot maximum height) between the room and another room; or
 - (iv) The room is a first floor room or basement area that does not have direct access to full bathrooms or "roughed in" plumbing that would provide direct access to future full bathroom facilities.

The Health Department strongly recommends sizing the onsite sewage disposal system at least one bedroom larger than the existing 4 bedroom design to accommodate a future finished basement. If you choose to only size for the existing design, any future building permit for a finished basement may be placed on hold until the system is upgraded to accommodate the proposed number of bedrooms. This memo will be retained in the Health Department file for future reference.

Freemon, Robert

From: cary@vikingcustomhomes.com
Sent: Friday, October 8, 2021 11:28 AM
To: Freemon, Robert; 'Ron Thompson'
Subject: RE: 17549 Hardy Rd.

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

Hi Spencer,
I made them aware of this and they don't want to upgrade at this time.

Thank you,
Cary!

From: Freemon, Robert <rffreemon@howardcountymd.gov>
Sent: Friday, October 8, 2021 10:04 AM
To: cary@vikingcustomhomes.com; Ron Thompson <ron@vanmar.com>
Subject: 17549 Hardy Rd.

Hi Cary,
I am emailing about the rough in full bath in the unfinished basement. If the homeowners plan on finishing the basement to include another bedroom they may want to consider upsizing the proposed 4BR OSDS. Please see attached memo and let me know how the homeowners would like to proceed.

Ron,
The OSDS plan looks good however it is missing a construction detail for the initial trench systems (see attached) and the perc hole locations.



Howard County Health Department
8930 Stanford Blvd. Columbia, MD 21045
Bureau of Environmental Health

Well and Septic Program
Robert "Spencer" Freemon
Phone: 410-313-6357
Email: rffreemon@howardcountymd.gov
Website: <https://www.howardcountymd.gov/health/well-septic-program>



FRONT ELEVATION

SCALE: 1/4"=1'-0"

Heath

*4BRs w/ Basement
Rough In
R/R
Approved 10/26/2021
R/R
4BRs*

PROPOSED NEW HOME FOR:
THE GONDI FAMILY

FRONT ELEVATION

SUBMITTALS		
ISSUE DATE	DRAWN BY	REMARKS
5-1-2021	DWR	REVISED PRELIMINARY
5-12-2021	DWR	REVISED PRELIMINARY
5-26-2021	DWR	REVISED PRELIMINARY
6-4-2021	DWR	REVISED PRELIMINARY
6-12-2021	DWR	REVISED PRELIMINARY
6-17-2021	DWR	REVISED PRELIMINARY
6-28-2021	DWR	PRINT SET



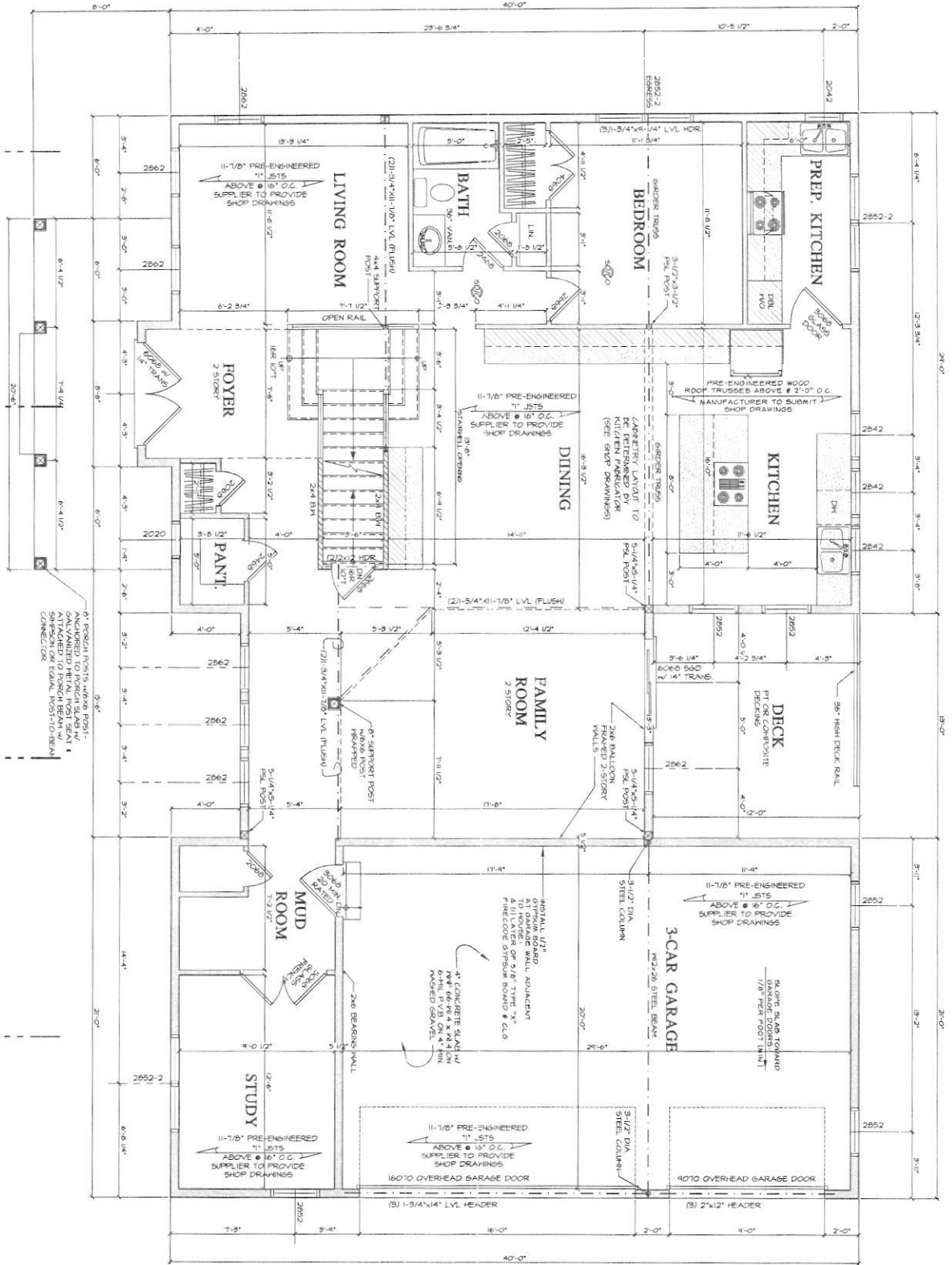
332 WEST PATRICK STREET / FREDERICK, MD / 21701
(V) 301.695.9121 (E) DESIGN@CADDWORKS.NET
(F) 301.695.4868 (W) WWW.CADDWORKS.NET

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B21003667

SHEET NO.
A-4

PROJ. NO. 221-03



FIRST FLOOR PLAN

7108 SQ FT FLOOR AREA

SCALE 1/4"=1'-0"



PROPOSED NEW HOME FOR:
THE GONDI FAMILY

FIRST FLOOR AREA

SUBMITTALS

ISSUE DATE	DRAWN BY	REMARKS
5-1-2021	DWR	REVISED PRELIMINARY
7-2-2021	DWR	REVISED PRELIMINARY
5-28-2021	DWR	REVISED PRELIMINARY
8-4-2021	DWR	REVISED PRELIMINARY
8-2-2021	DWR	REVISED PRELIMINARY
6-17-2021	DWR	REVISED PRELIMINARY
8-25-2021	DWR	PRINT SET

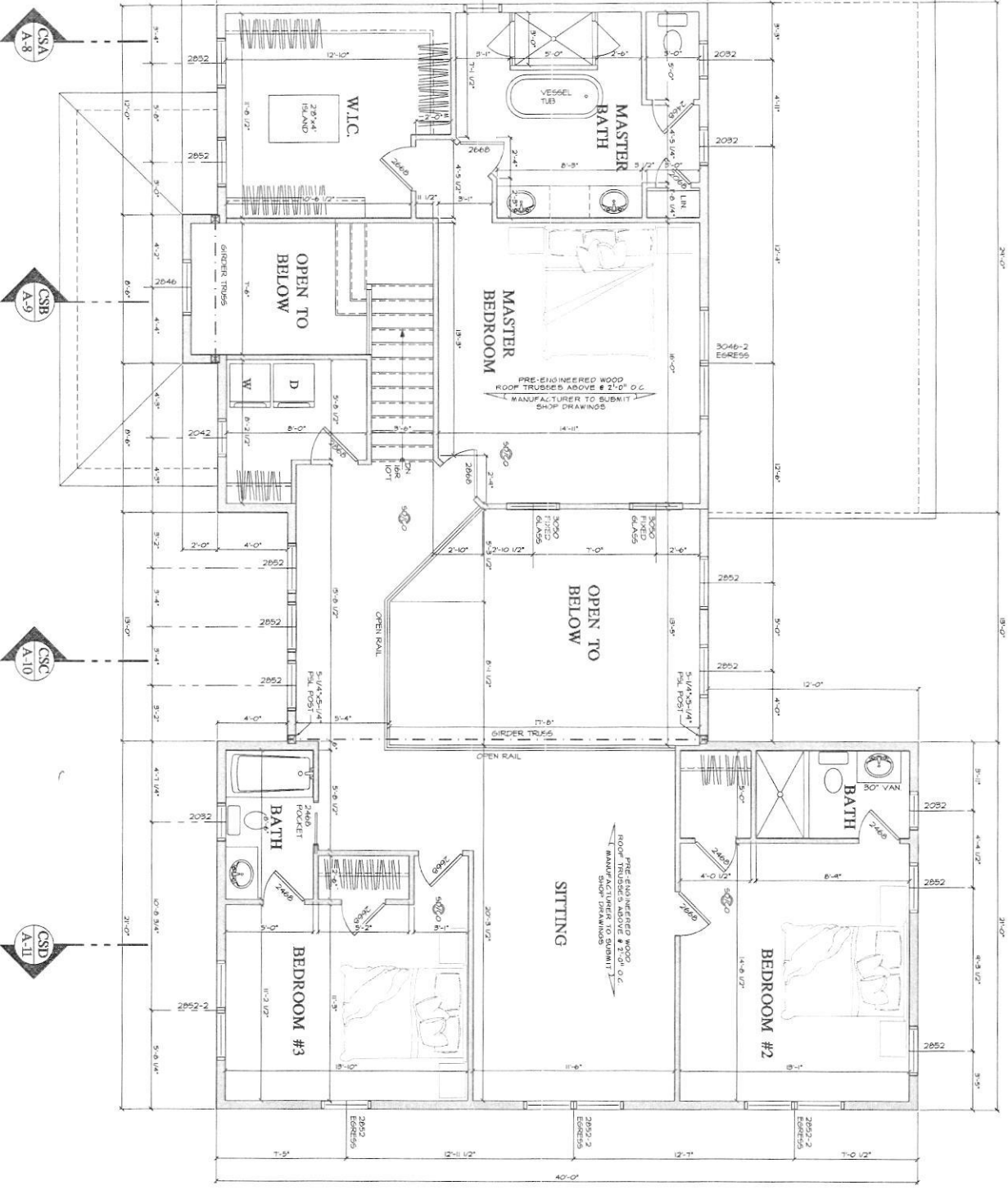


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SHEET NO.
A-2

PROJ. NO. B21-80



SECOND FLOOR PLAN
 1621 SQ. FT. 2ND FLOOR AREA
 SCALE: 1/4"=1'-0"



PROPOSED NEW HOME FOR:
THE GONDI FAMILY

SECOND FLOOR AREA

SUBMITTALS

ISSUE DATE	DRAWN BY	REMARKS
5-1-2022	DWR	REVISED PRELIMINARY
5-12-2022	DWR	REVISED PRELIMINARY
5-26-2022	DWR	REVISED PRELIMINARY
6-9-2022	DWR	REVISED PRELIMINARY
6-13-2022	DWR	REVISED PRELIMINARY
6-17-2022	DWR	REVISED PRELIMINARY
6-28-2022	DWR	PERMIT SET



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 (V) 301.695.9121 (E) DESIGN@CADDWORKS.NET
 (F) 301.695.4868 (W) WWW.CADDWORKS.NET

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SHEET NO.
A-3

PROJ. NO. B21-20

Record Detail * (This section is required.)

Permit Type: Building/Residential/Misc/Tanks
 Permit Number: B22002251
 Opened Date: 06/06/2022

Description of Work: SFD//INSTALL 500 GAL UNDERGROUND PROPANE TANK

check spelling

Address * (This section is required.)

Search Reset Clear Get Parcel & Owner

Street #: 17549
 Street Name: HARDY
 Street Type: RD

Unit Type: -Select-
 Unit #: -77.12601
 X Coordinate: -77.12601
 Y Coordinate: 39.34353

City: MOUNT AIRY
 State: MD
 Zip Code: 21771
 Primary: Yes

Parcel * (This section is required.)

Search Reset Clear Get Address & Owner

GIS ID	Parcel	Parcel Area	Land Value	Improved Value	Exemption Value	Plan Area
924247	485	1.08	185800	0	0	RURAL

Legal Description: LOT 1 1.084 A [] 17549 HARDY RD [] WILLIAM & SUSAN DODD PRO

1st plan not approvable
 2nd plan approved
 3rd plan approved →
 3rd plan is the final
 revised plan - approved
 8/5/22
 [Signature]

check spelling

Block	Lot	Census Tract	Council Dist	Inspection Dist	Supervisor Dist	Map #	DAP Zone
	1	604001	5				

Plan Area: State Tax Id: 1404371615
 Subdivision Name: William and Susan Dodd Prop

Section: Area: Tax Map: 7

Grid: Zoning District: RC-DEO
 ADC Map: 4690-K6

SDP No.: Final Plan No.: F-06-144
 WP File No.:

Record Plat No.: 19082
 WS Contract No.: FDP No.:

Owner Occupied: Yes No
 Year Built:

Historic District Registry No.: Stat Area: 4-04
 Historic District: Yes No
 Flood Plain: Yes No

Building No:

Owner * (This section is required.)

Search Reset Clear

Name: GONDI LAKSHMINARAYANA
 Address Line 1: 7424 RIGBY PLACE
 Address Line 2:
 Address Line 3:

Mail City: ELKRIDGE
 Mail State: MD
 Mail Zip Code: 21075

Phone: 410-733-9991
 Primary: Yes

E-mail:

Cell Number Fax Number

Professionals (This section is not required.)

Search Reset Clear

License # * 60003	Business Name THOMPSON GAS		
License Type * Propane Gs	First Name J. RANDALL	Middle Name	Last Name THOMPSON
Primary Yes	Address Line 1 6708 OLD NATIONAL PIKE		
	Address Line 2		
	City BOONSBORO	State MD	ZIP Code 21713
	Phone 1 301-432-6611	Phone 2	Fax 301-432-7147
	E-mail BROHRER@THOMPSONGAS.COM		

Applicant (This section is not required.)

Search As Owner As Lic. Prof As Contact

Type * Applicant	First Name MICHELLE	MI	Last Name CLANCY
Relationship Applicant	Full Name MICHELLE CLANCY		
Primary Yes	Organization Name APPLIED & APPROVED PERMITS LLC		
	Street Address P.O. BOX 310		
	Address Line 2		
	City PERRY HALL	State MD	Zip Code 21128
	Phone 443-340-1229	Cell	Fax
	E-mail * MICHELLE@APPLIEDANDAPPROVED.COM		

Addtl Info

Est Construction Cost * 3000	Housing Units * 0	Number of Buildings * 0	Public Owned No
Construction Type --Select--			

TANK INFORMATION

RESIDENTIAL TANK INFORMATION

Capital Project-No Fee * <input type="radio"/> Yes <input checked="" type="radio"/> No	Capital Project Number	Fee Exempt * <input type="radio"/> Yes <input checked="" type="radio"/> No	Roadside Tree Project Permit * <input type="radio"/> Yes <input checked="" type="radio"/> No	Roadside Tree Permit #
Existing Use SFD	Number of Tanks Installed * 1	Number of Tanks Removed * 0		
Water Supply Private	Sewage Disposal Private	Expiration Date 12/12/2022	Relocate Existing Tank * 0	

PAYMENT INFORMATION

Check 1	Payee 1	Check 2	Payee 2	SAP Doc No	SAP Entered
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Submit Cancel

**COMPLETE THIS FORM WHEN DROPPING OFF ANY
CORRESPONDENCE AND/OR PLANS TO THE HOWARD COUNTY
DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS COUNTER:**

Date: 7/13/22

To: DILP
(Reviewer/Requestor's Name) (Division)

From: MICHELLE CLANCY 443-610-7514
(Your Name, Company Name) (Phone Number)

Subject: Project name _____
Project site address 17549 HARDY ROAD
Permit # B22002251 SDP # _____
Other information pertinent to this project _____

✓ Please check the attachments below that you are submitting with this transmittal:

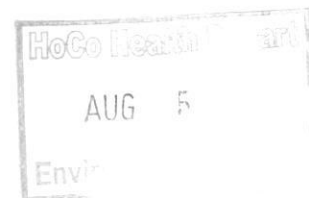
- Letter of response to address plan review comment letter
- Revised plans and/or revised details: When submitting for a complete re-review, **duplicate sets shall be submitted.**
- Letter Summarizing Changes
- Energy conservation calculations
- Copies of _____ (be specific).
 Health Department Request DPZ/ DED Request Applicant's Request
- Two sets of single-family model plans to be placed on permanent file: Model Name/ # _____
- Other NEED TO REVISE PERMIT TO CHANGE TANK LOCATION

Contact Person Information: (Required)

MICHELLE CLANCY Telephone No: 443-610-7514
Please Print Name E-Mail Address: michelle@appliedandapproved.com

PLEASE ASSURE ALL DOCUMENTS AND/OR REVISIONS ARE APPROPRIATELY SIGNED AND SEALED, IF NECESSARY, BY A LICENSED ARCHITECT OR ENGINEER. PLEASE BE ADVISED THAT INSUFFICIENT INFORMATION MAY RESULT IN THE DELAY OF REVIEW BY THE PLANS EXAMINER. THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS WILL CONTACT YOU IF THERE IS A PROBLEM. IN ADDITION, ONCE THE BUILDING PERMIT IS APPROVED BY THE PLAN REVIEW DIVISION AND ALL OTHER REQUIRED SIGNATORY AGENCIES, AND THE BUILDING PERMIT IS READY FOR ISSUANCE, THE PERMIT DIVISION WILL NOTIFY THE APPROPRIATE CONTACT PERSON FOR PERMIT PICK UP. ALL PERMIT STATUS INQUIRIES SHALL BE DIRECTED TO THE PERMIT DIVISION AT 410-313-2455 OPTION #4 OR BY VISITING MYHOWARD.INFO. CODE RELATED QUESTIONS AND PLAN REVIEW INQUIRIES SHALL BE DIRECTED TO THE PLAN REVIEW DIVISION AT 410-313-2436. PLEASE ALLOW A MINIMUM OF FIVE (5) WORKING DAYS FOR ANY PLAN SUBMITTALS TO BE REVIEWED. THANK YOU.

Received by _____



**COMPLETE THIS FORM WHEN DROPPING OFF ANY
CORRESPONDENCE AND/OR PLANS TO THE HOWARD COUNTY
DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS COUNTER:**

Date: 6/14/22

To: DILP
(Reviewer/Requestor's Name) (Division)

From: MICHELLE CLANCY 443-610-7514
(Your Name, Company Name) (Phone Number)

Subject: Project name 17549 HARDY ROAD TANK
Project site address 17549 HARDY RD
Permit # B22002251 SDP # _____
Other information pertinent to this project _____

- Please check the attachments below that you are submitting with this transmittal:
- Letter of response to address plan review comment letter
 - Revised plans and/or revised details: When submitting for a complete re-review, **duplicate sets shall be submitted.**
 - Letter Summarizing Changes
 - Energy conservation calculations
 - Copies of SITE (be specific).
 - Health Department Request
 - DPZ/ DED Request
 - Applicant's Request
 - Two sets of single-family model plans to be placed on permanent file: Model Name/ # _____
 - Other REVISE TO CHANGE TANK LOCATION TO MEET HEALTH SETBACK

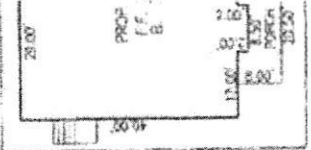
Contact Person Information: (Required)

MICHELLE CLANCY Telephone No: 443-610-7514
Please Print Name E-Mail Address: michelle@appliedandapproved.com

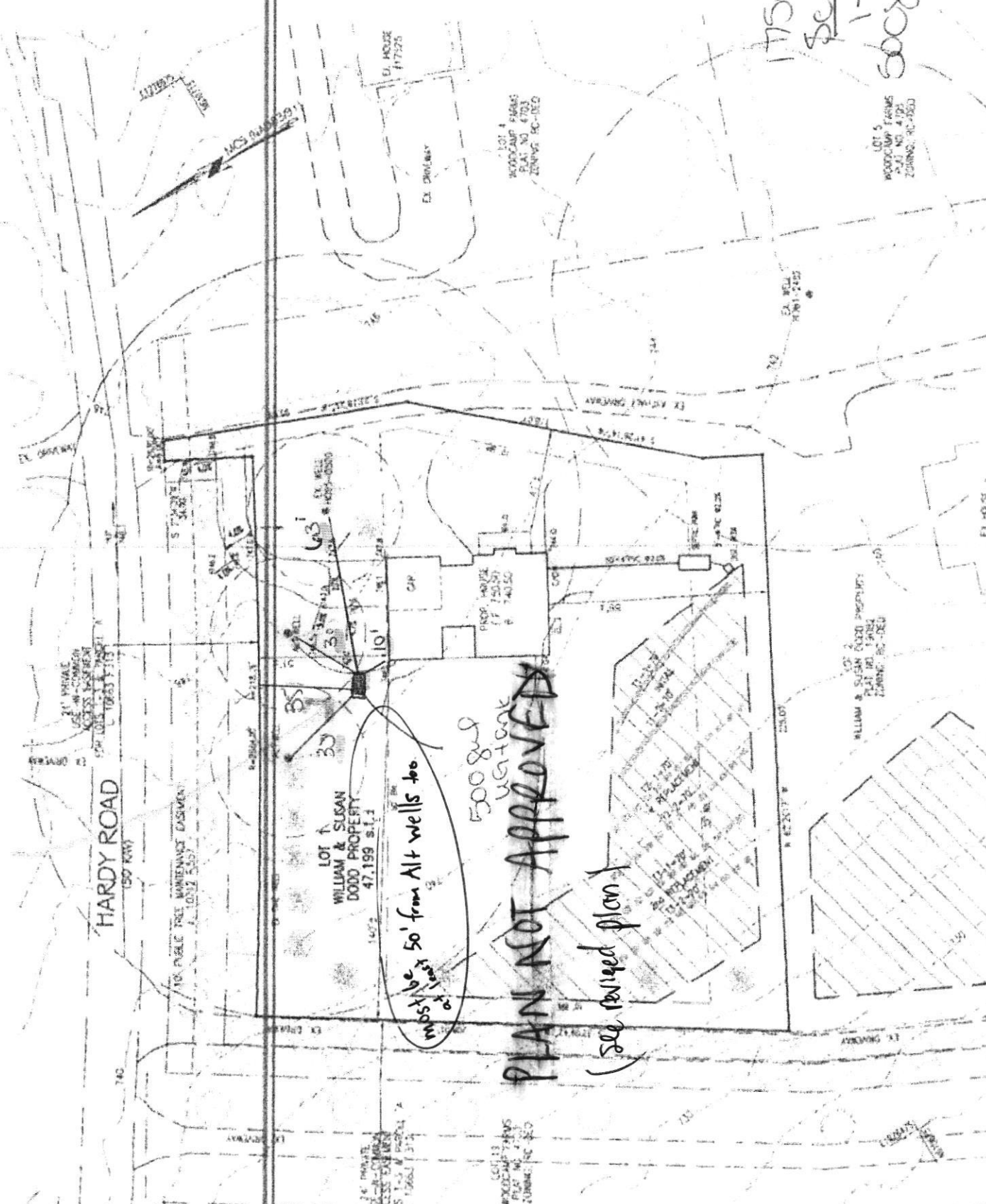
PLEASE ASSURE ALL DOCUMENTS AND/OR REVISIONS ARE APPROPRIATELY SIGNED AND SEALED, IF NECESSARY, BY A LICENSED ARCHITECT OR ENGINEER. PLEASE BE ADVISED THAT INSUFFICIENT INFORMATION MAY RESULT IN THE DELAY OF REVIEW BY THE PLANS EXAMINER. THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS WILL CONTACT YOU IF THERE IS A PROBLEM. IN ADDITION, ONCE THE BUILDING PERMIT IS APPROVED BY THE PLAN REVIEW DIVISION AND ALL OTHER REQUIRED SIGNATORY AGENCIES, AND THE BUILDING PERMIT IS READY FOR ISSUANCE, THE PERMIT DIVISION WILL NOTIFY THE APPROPRIATE CONTACT PERSON FOR PERMIT PICK UP. ALL PERMIT STATUS INQUIRIES SHALL BE DIRECTED TO THE PERMIT DIVISION AT 410-313-2455 OPTION #4 OR BY VISITING MYHOWARD.INFO. CODE RELATED QUESTIONS AND PLAN REVIEW INQUIRIES SHALL BE DIRECTED TO THE PLAN REVIEW DIVISION AT 410-313-2436. PLEASE ALLOW A MINIMUM OF FIVE (5) WORKING DAYS FOR ANY PLAN SUBMITTALS TO BE REVIEWED. THANK YOU.

Received by _____

5000 sq



17509 Hardy Rd
 Scale
 1-50
 SDC Syd NG



Must be 50' from Alt wells too

500 sq ft

vertical

PLAN NOT APPROVED
 (see revised plan)

LOT 5
 WOODCAMP FARMS
 PLAT NO. 4703
 ZONING: RC-35D

LOT 2
 WILLIAM & SUSAN DODD PROPERTY
 PLAT NO. 1584
 ZONING: RC-35D

LOT 13
 WOODCAMP FARMS
 PLAT NO. 4703
 ZONING: RC-35D

LOT 6
 PRIVATE
 WOODCAMP FARMS
 ACCESS EASEMENT
 PLAT NO. 4703
 ZONING: RC-35D

HARDY ROAD
 (50' R/W)

LOT 1
 WILLIAM & SUSAN
 DODD PROPERTY
 47,199 s.f.

PROP. HOUSE
 F.F. 15050
 P. 14050

LOT 4
 WOODCAMP FARMS
 PLAT NO. 4703
 ZONING: RC-35D

EX. HOUSE
 17565

EX. WELL
 17611-17620

EX. HOUSE
 17725

EX. DRIVEWAY

NCS 0000291

17720-17730

EX. DRIVEWAY

21' PRIVATE
 USE IN COMMON
 ACCESS EASEMENT
 17509-17515

100' PUBLIC TREE MAINTENANCE EASEMENT
 17512-17515

EX. DRIVEWAY

EX. DRIVEWAY

EX. DRIVEWAY

EX. DRIVEWAY

EX. DRIVEWAY

EX. DRIVEWAY

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EX. DRIVEWAY

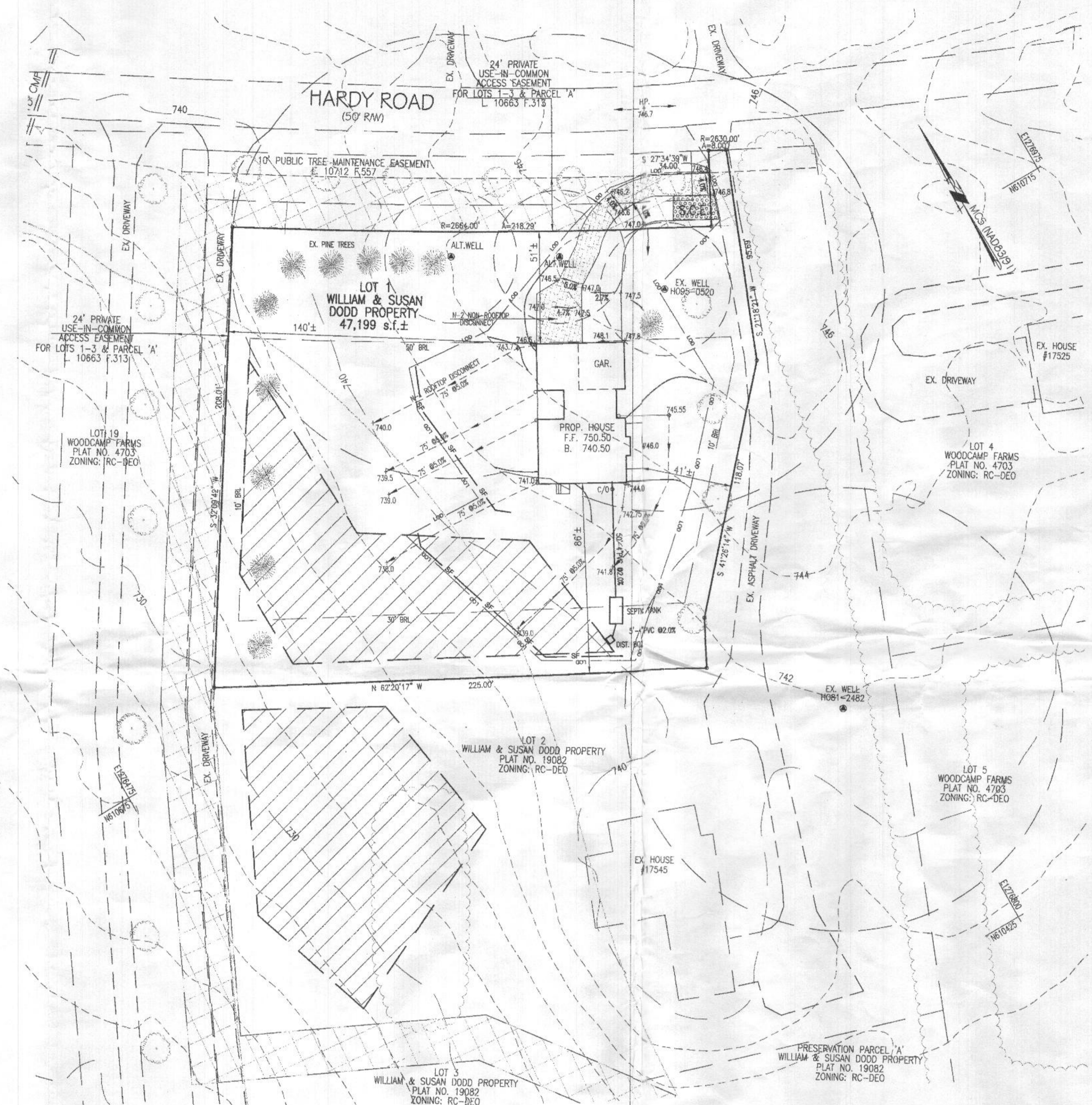
EX. DRIVEWAY

EX. DRIVEWAY

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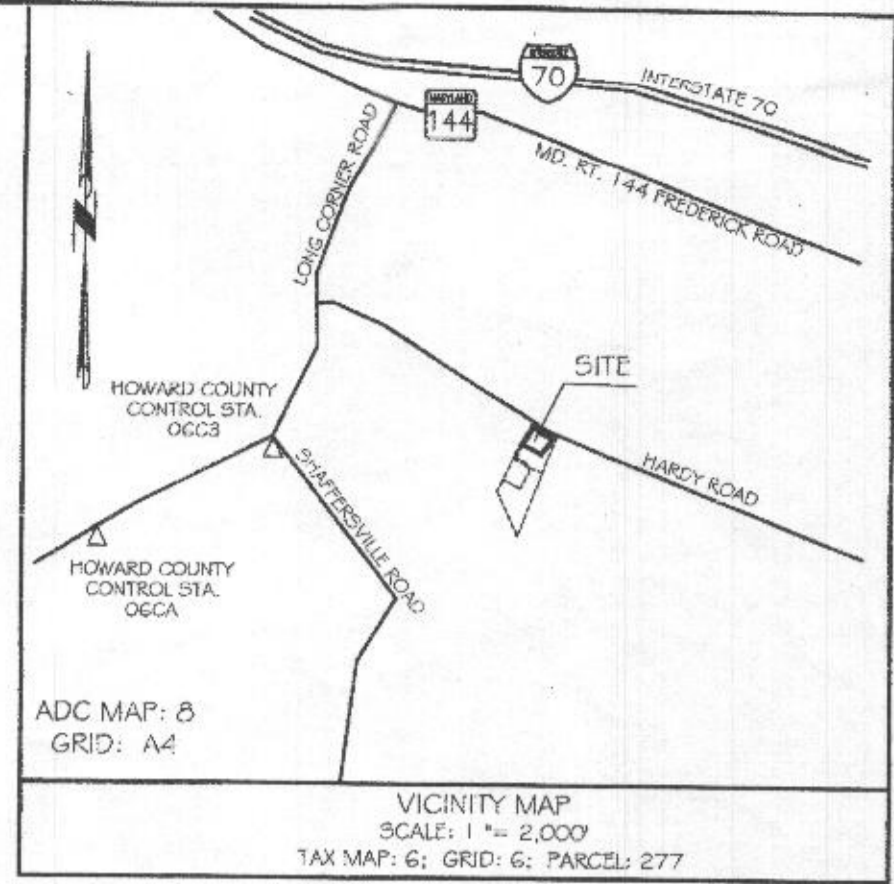
EX. DRIVEWAY

EX. DRIVEWAY



LEGEND

- PROPOSED SOA: [Hatched Box]
- SILT FENCE: SF — SF — SF
- SUPER SILT FENCE: SSF — SSF — SSF
- LIMIT OF DISTURBANCE: — LOD —
- EXISTING WELL: [Well Symbol]
- PROPOSED HOUSE SITE: [House Symbol]
- EXISTING TREELINE: [Wavy Line]
- PROPOSED TREELINE: [Dashed Wavy Line]
- SOIL LINE: [Dashed Line]
- STABILIZED CONSTRUCTION ENTRANCE: [Box with 'SCE']
- N-1 ROOFTOP DISCONNECT: [Symbol]
- N-2 NON-ROOFTOP DISCONNECT: [Symbol]
- USE-IN-COMMON ACCESS EASEMENT: [Symbol]



GENERAL NOTES

- OWNER: WILLIAM L. & SUSAN L. DODD
DEED REFERENCE: USER 1705 AT FOLIO 646
DATE: JANUARY 25, 1990
GRANTOR: RICHARD M. & BARBARA A. HOUGH
- TAX MAP: 6 GRID: 6 PARCEL: 277
- NEAREST POTABLE WATER SUPPLY: MT. AIRY DISTANCE: 2 MILES ±
- THE SUBJECT PROPERTY IS NOT LOCATED IN SPECIAL FLOOD HAZARD AREA PER NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 24027C00400.
- TOPOGRAPHY & PLAINMETRIC FEATURES SHOWN HEREON TAKEN FROM COPYRIGHTED GIS DATA FROM HOWARD COUNTY, SUPPLEMENTED WITH FIELD LOCATIONS BY VANMAR ASSOCIATES, INC. CONTOUR INTERVAL IS 2 FEET. VERTICAL DATUM IS NAVD83.
- THE 94% OF BEARINGS FOR THIS PLAN IS THE MARYLAND COORDINATE SYSTEM (NAD83) PER HOWARD COUNTY SURVEY CONTROL STATIONS STA. 063 N. 610,673.221 E. 1,273,997.317 STA. 064 N. 610,135.405 E. 1,272,883.944 DISTANCES SHOWN HEREON ARE GROUND DISTANCES.
- THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HEREON.
- THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
- SOIL TYPE: GLENLEIG LOAM (G4B, G4C) GLENVILLE-BAILE (G-6) SOILS MAP NO. 7
- THE SUBJECT PROPERTY IS ZONED RC-DEO IN ACCORDANCE WITH THE OCTOBER 6, 2013 COMPREHENSIVE ZONING REGULATIONS.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREAS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- THERE ARE NO HISTORIC SITES OR CEMETERIES ON THIS PROPERTY.
- NO ENVIRONMENTAL FEATURES EXIST WITHIN THE LOD.
- THERE ARE NO STEEP SLOPES, FLOODPLAIN, WETLANDS OR OTHER ENVIRONMENTAL FEATURES LOCATED ON THE SITE AS DETERMINED DURING A FIELD INVESTIGATION PERFORMED BY VANMAR ASSOCIATES, INC. AUGUST 2021.
- DISTURBED AREA (LOD) = 18,750 S.F.

SITE ANALYSIS DATA SHEET

PROPOSED SITE USE	ACRES
WETLANDS	0.00
WETLANDS BUFFER	0.00
FLOODPLAIN	0.00
FORESTS	0.00
STEEP SLOPES (15-24%)	0.00
STEEP SLOPES (25% OR GREATER)	0.00
TOTAL PROJECT AREA	1.0835
LOD AREA	0.476
GREEN OPEN SPACE AREA	0.00
EX. IMPERVIOUS AREA	0.086
HIGHLY ERODIBLE SOILS IN PROJECT AREA	0.00

DESIGN NARRATIVE

- THE PROPOSED DEVELOPMENT CONSISTS OF THE CONSTRUCTION OF ONE (1) SINGLE FAMILY HOME AND DRIVEWAY.
- THERE ARE NO STEEP SLOPES, FOREST RESOURCES, WATERWAYS, FLOODPLAIN, WETLANDS OR BUFFERS ON THE PROPERTY.
- NATURAL FLOW PATTERNS WILL NOT BE AFFECTED BY THE PROPOSED SUBDIVISION.
- IMPERVIOUS AREAS HAVE BEEN REDUCED THROUGH THE USE OF DISCONNECTIONS.
- ONLY DISCONNECTION PRACTICES ARE PROPOSED FOR THE SUBDIVISION THEREFORE, NO INTEGRATION OF SEDIMENT CONTROLS ARE NECESSARY.
- STORMWATER MANAGEMENT REQUIREMENTS WILL BE ADDRESSED USING (N-1) ROOFTOP AND (N-2) NON-ROOFTOP DISCONNECTION. SWM IS IN ACCORDANCE WITH THE 2009 REVISIONS OF THE 2000 MD STORMWATER DESIGN MANUAL AND ADDRESSES ESD TO THE MFP.

Approved
B21003667
10/26/2021 RFE

DEVELOPER'S CERTIFICATE:

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION CONTROL, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD COUNTY CONSERVATION DISTRICT.

Craig Cumberbund 9/20/21
DEVELOPER DATE

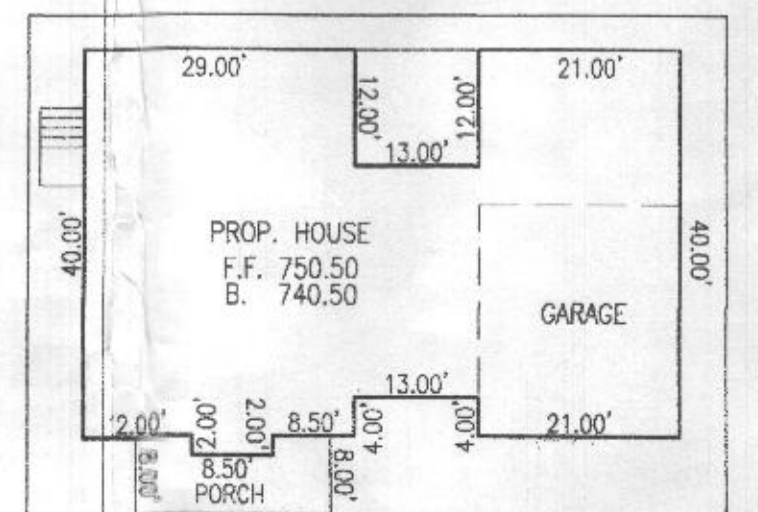
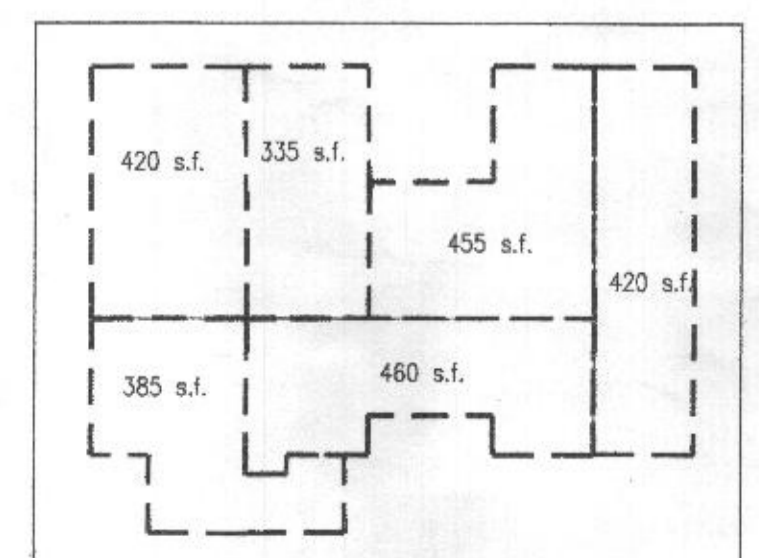
ENGINEER'S CERTIFICATE:

I HEREBY 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 AND THE 2011 MARYLAND STANDARDS & SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

Ronald E. Thompson, P.E. 9/20/2021
RONALD E. THOMPSON, P.E. DATE

SWM TREATMENT SUMMARY

PRACTICE	DRAINAGE AREA	IMPERVIOUS AREA TREATED	METHODOLOGY	VOLUME (ESD) REQUIRED	VOLUME (ESD) PROVIDED
N-1 ROOFTOP DISCONNECTION	2,626 S.F.	2,626 S.F.	$ESD = P_e \cdot R_v \cdot A^{1/2}$ where $P_e = 1.0$ & $R_v = 0.95$	208 c.f.	208 c.f.
N-2 NON-ROOFTOP DISCONNECTION	1,400 S.F.	1,400 S.F.	$ESD = P_e \cdot R_v \cdot A^{1/2}$ where $P_e = 1.0$ & $R_v = 0.95$	111 c.f.	111 c.f.
TOTAL ESD PROVIDED				319 c.f.	319 c.f.
ESD REQUIRED				319 c.f.	

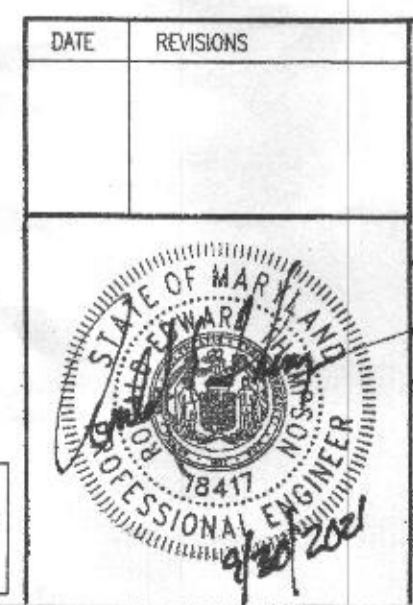


OWNERS:
WILLIAM L. & SUSAN L. DODD
17545 HARDY ROAD
MOUNT AIRY, MD. 21771

DEVELOPER:
VIKING CUSTOM HOMES
12800 FREDERICK ROAD
WEST FRIENDSHIP, MD. 21794
410-489-6728

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. 18117. Expiration Date: 9-18-23.



PLOT PLAN AND SEDIMENT CONTROL PLAN
17545 HARDY ROAD
LOT 1
WILLIAM AND SUSAN DODD PROPERTY
PLAT NO. 19082

TAX MAP: 6 ELECTION DISTRICT: No. 4 SCALE: 1" = 30'
GRID NO: 6 HOWARD COUNTY, MARYLAND DATE: SEPTEMBER, 2021
P/O PARCEL NO: 277 EX. ZONING: RC-DEO SHEET 1 OF 2

VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street Mount Airy, Maryland 21771
(301) 829-2890 (301) 831-5015 (410) 549-2751
Fax (301) 831-5603 ©Copyright, Latest Date Shown

B-1-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

Definition:
The process of preparing the soils to sustain adequate vegetative stabilization.

Purpose:
To provide a suitable soil medium for vegetative growth.

Conditions Where Practice Applies:
Where vegetative stabilization is to be established.

Criteria:
A. Soil Preparation
1. Temporary Stabilization
a. Standard preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrow or chisel plow or ripper mounted on construction equipment. After the soil is loosened, it must be rolled or dropped smooth, but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contour of the slope.
b. Apply fertilizer and lime as prescribed on the plan.
c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means.
2. Permanent Stabilization
a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are:
i. Soil pH between 6.0 and 7.0.
ii. Soluble salts less than 500 parts per million (ppm).
iii. Soil contains less than 500 parts per million (ppm) of heavy metals (lead, cadmium, copper, nickel, chromium, manganese, mercury, selenium, silver, zinc, and barium) and 100 parts per million (ppm) of arsenic.
iv. Soil contains less than 30 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is lowlands that will be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable.
v. Soil contains 1.5 percent minimum organic matter by weight.
b. Soil contains sufficient pore space to permit adequate root penetration.
c. Application of amendments or topsoil is required if on-site soils do not meet the above conditions.
d. Graded areas must be maintained in a level and open grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches. B.1.3
e. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test.
f. Mix amendments into the top 3 to 5 inches of soil by disking or other suitable means. Roll down areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by disking with a heavy chisel or other equipment to roughen the surface where site conditions will not permit normal seeded preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loose and friable. Seeding broadcast may be unnecessary on newly disturbed areas.
B. Topsoiling
1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.
2. Topsoil salvaged from an existing site may be used, provided it meets the standards set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-NRCS.
3. Topsoiling is limited to areas having 2:1 or flatter slopes where:
a. The texture of the exposed subsoil/parent material is not conducive to produce vegetative growth.
b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of mineral and plant nutrients.
c. The original soil to be vegetated contains material toxic to plant growth.
d. The soil is so acidic that treatment with limestone is not feasible.
e. Areas having slopes steeper than 2:1 require special consideration and design.
4. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:
a. Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand.
b. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2 inches in diameter.
c. Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nut sedge, poison ivy, thistle, or others as specified.
d. 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.
5. Topsoil Application
a. Erosion and sediment control practices must be maintained when applying topsoil.
b. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness of 4 inches. Spreading is to be performed in such a manner that adding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations must be corrected in order to prevent the formation of depressions or water pockets.
c. Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading. B.1.4 and seeded preparation.
C. Soil Amendments (Fertilizer and Lime Specifications)
1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.
2. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Measures may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers must be delivered to the site fully labeled according to the applicable laws and must bear the name, trade name or trademark and warranty of the producer.
3. Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when hydroseeding) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100 mesh sieve and 85 to 100 percent will pass through a #200 mesh sieve.
4. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by disking or other suitable means.
5. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil.

B-1-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

Definition:
The application of seed and mulch to establish vegetative cover.

Purpose:
To protect disturbed soils from erosion during and at the end of construction.

Conditions Where Practice Applies:
To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

Criteria:
A. Seeding
1. Specifications
a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 8 months immediately preceding the date of sowing each material on any project. Refer to Table B.1.4 regarding the quality of seed. Seed bags must be available upon request to the inspector to verify the type of seed and seeding rates.
b. Much seed may be applied between the fall and spring seeding dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws.
c. Inoculants: The inoculant for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used other than the date indicated on the date of sowing each material on any project. Refer to Table B.1.4 regarding the quality of seed. Seed bags must be available upon request to the inspector to verify the type of seed and seeding rates.
d. Soil: Soil must not be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit disposition of phytotoxic materials.
e. Dry Seeding: This includes use of conventional drag or broadcast spreaders.
f. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1.
g. Permanent Seeding Table B.1.4 or site-specific seeding summaries.
h. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. For the seeded area with a weighted roller to provide good seed to soil contact. B.1.6
i. Drill or Cultivator Seeding: Mechanized seeders that apply and cover seed with soil.
j. Outdriving seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seeded must be by other planting.
k. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction.
l. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer). Fertilizer is being applied at the time of seeding, the application rates should not exceed the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P2 O5 (phosphorus), 200 pounds per acre; K2 O (potassium), 200 pounds per acre.
m. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
n. Mix seed and fertilizer on site and seed immediately and without interruption.
o. When hydroseeding do not incorporate seed into the soil.
B. Mulching
1. Mulch Material (In order of preference)
a. Straw consisting of thoroughly blower wheel, eye, cut, or barley and reasonably bright in color. Straw is to be free of noxious weed seeds as specified in the Maryland Seed Law and not musty, moldy, caked, decayed, or excessively dirty. Note: Use only sterile straw mulch in areas where one species of grass is desired.
b. Wood Cellulose Fiber Mulch (WCM) consisting of specially prepared wood cellulose processed into a uniform fibrous physical state.
i. WCM is to be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry.
ii. WCM, including dye, must contain no germination or growth inhibiting factors.
iii. WCM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a bi-layer-like ground cover, on application, having moisture absorption and retention properties and must cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.
iv. WCM material must not contain elements or compounds of concentration levels that will be phytotoxic.
v. WCM must conform to the following physical requirements: fiber length of approximately 10 millimeters, diameter approximately 1 millimeter, pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity of 90 percent minimum. B.1.7
2. Application
a. Apply mulch to all seeded areas immediately after seeding.
b. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of 1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch anchoring tool, increase the application rate to 2.5 tons per acre.
c. Wood cellulose fiber used as mulch must be applied at a net dry weight of 1500 pounds per acre. Mix the wood cellulose fiber with water to obtain a mixture with a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
3. Anchoring
a. Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water. This may be done by any of the following methods (listed by preference), depending upon the size of the area and erosion hazard:
i. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of 2 inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should follow the contour.
ii. Wood cellulose fiber may be used for anchoring slurry. Apply the fiber binder at a net dry weight of 50 pounds of wood cellulose fiber per 100 gallons of water.
iii. Synthetic binders such as Acrylic B.R. (Ago-Tack), DDA-70, Retrolon, Terra Tex, Terra Tack, AR or other approved equal may be used. Follow application rates as specified by the manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such as in valleys and on crests of banks. Use of mulch binders is strictly prohibited.
iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations. Netting is usually available in rolls 4 to 15 feet wide and 300 to 3,000 feet long.

TEMPORARY STABILIZATION SPECIFICATIONS TABLE						
Hardiness Zone (from Figure B.3): 5b						
Seed Mixture (from Table B.1):						
No.	Species	Application Rate (lb/acre)	Seeding Dates	Seeding Depths	Fertilizer Rate (10-20-20)	Lime Rate
1	ANNULAR RYEGRASS	40	MAR. 1 - MAY 15 JUNE 1 - OCT. 15	0.5 INCHES	435 lb/acre (10 lb/1000 sq ft)	2 tons/acre (90 lb/1000 sq ft)
2	WHITE CLOVER	30	MAR. 1 - MAY 15 JUNE 1 - JULY 31	0.5 INCHES		

PERMANENT STABILIZATION SPECIFICATIONS TABLE						
Hardiness Zone (from Figure B.3): 5b						
Seed Mixture (from Table B.1):						
No.	Species	Application Rate (lb/acre)	Seeding Dates	Seeding Depths	Fertilizer Rate (10-20-20)	Lime Rate
1	PERENNIAL BUEGRASS	20	MAR. 1 - MAY 15 JUNE 1 - OCT. 15	1/4 - 1/2 in	45 pounds per acre (1.0 lb/1000 sq ft)	2 tons/acre (90 lb/1000 sq ft)
2	TALL FESCUE	20	MAR. 1 - MAY 15 JUNE 1 - OCT. 15	1/4 - 1/2 in	45 pounds per acre (1.0 lb/1000 sq ft)	2 tons/acre (90 lb/1000 sq ft)
3	FINES FESCUE	20	MAR. 1 - MAY 15 JUNE 1 - OCT. 15	1/4 - 1/2 in	45 pounds per acre (1.0 lb/1000 sq ft)	2 tons/acre (90 lb/1000 sq ft)

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

Definition:
A mound or pile of soil protected by appropriately designed erosion and sediment control measures.

Purpose:
To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.

Conditions Where Practice Applies:
Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

Criteria:
1. The stockpile location and all related sediment control practices must be clearly 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 based on a site slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading.
3. Runoff from the stockpile area must drain to a suitable sediment control practice.
4. Access the stockpile area from the upgrade side.

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-erode manner.

Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge.

Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.

If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable sheeting.

The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Site slopes must be maintained at no steeper than 2:1 ratio. The stockpile area must be kept free of erosion. If 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.

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

1. A pre-construction meeting must occur with the Howard County Department of Public Works, Construction Inspection Division (CD), 410-313-1855 after the future LOO and protected area marked clearly in the field. A minimum of 48-hour notice to CD must be given a the following stages:

a. Prior to the start of earth disturbance.
b. Upon completion of the installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading.
c. Prior to the start of another phase of construction or opening of another grading unit.
d. Prior to the removal or modification of sediment control practices.
e. Other building or grading inspection approvals may not be authorized until this initial approval by inspection agency is made. Other related state and federal permits shall be referenced, to ensure coordination and to avoid conflicts with this plan.

All vegetative and structural practices are to be installed according to the provisions of the plan and are to be in conformance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR THE SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.

3. Following initial 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, 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 active grading.

4. All disturbed areas must be stabilized within the time period specified above in accordance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR TOPSOIL (Sec. B-4-2), permanent seeding (Sec. B-4-3), temporary seeding (Sec. B-4-4) and mulching (Sec. B-4-5). Temporary stabilization (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 practice (Sec. B-4-4).

5. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the CD.

6. Site Analysis
Total Area of Site: 1.08 Acres
Area Disturbed: 0.43 Acres
Area to be seeded or paved: 0.09 Acres
Area to be vegetatively stabilized: 0.56 Acres
Total Cut: 0.00 Yds.
Total Fill: 0.00 Yds.
Off-site waste/barrow area location: N/A

7. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

8. Additional sediment control must be provided, if deemed necessary by the CD. The site and all 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 should include:
• Inspection date
• Name and title of inspector
• Weather information (current conditions as well as time and amount of last recorded precipitation)
• Brief description of project's status (e.g. percent complete) and/or current activities
• Evidence of sediment discharge
• Identification of plan deficiencies
• Identification of sediment controls that require maintenance
• Identification of missing or improperly installed sediment controls
• Compliance status regarding the sequence of construction and stabilization requirements
• Photographs
• Monitoring/sampling
• Maintenance and/or corrective action performed
• Other inspection items as required by the General Permit for Stormwater Associated with Construction Activities (NPDES, MDE).

9. Trenches for the construction of utilities is limited to three pipe lengths or that which can and shall be back-filled and stabilized by the end of each workday, whichever is shorter.

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 CD 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 activities begin on one grading unit (maximum erosion 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 preceding grading unit has been stabilized and approved by the CD. Unless otherwise specified and approved by the HSCD, no more than 30 acres cumulatively may be disturbed at a given time.

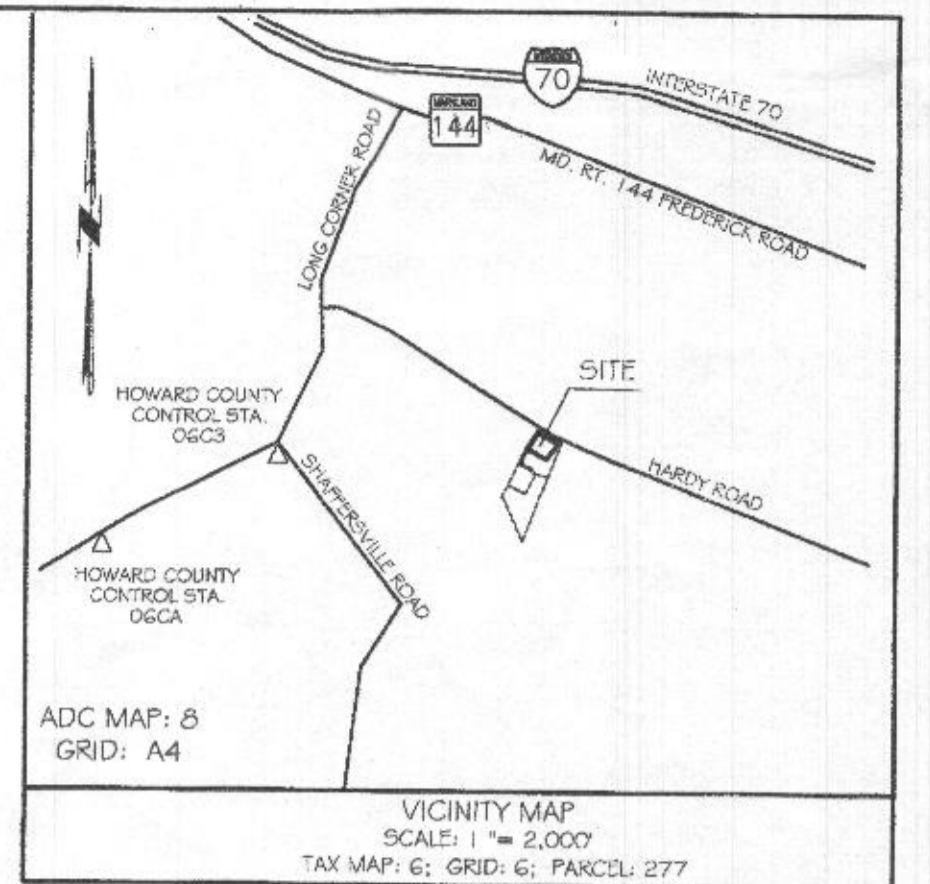
12. Wash water from any equipment, vehicles, wheelbarrows, and other sources must be treated in a sediment basin or other approved without structure.

13. Top soil shall be stockpiled and preserved on-site for redistribution onto final grade.

14. All Silt Fence and Super Silt Fence shall be placed on the contour, and be imbricated at 25' minimum intervals, with lower ends curbed uphill by 2" in elevation.

15. Stream channels must not be disturbed during the following restricted time periods (inclusive):
• Use I and II: March 1 - June 15
• Use III and III*: October 1 - April 30
• Use IV: March 1 - May 31

16. A copy of this plan, the 2011 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL, and associated permits shall be on-site and available when the site is active.



SEQUENCE OF CONSTRUCTION

1. OBTAIN ALL REQUIRED GRADING, MDE PERMITS, APPROVALS AND LICENSES FROM APPROPRIATE AGENCIES. (1 WEEK)

2. NOTIFY SEDIMENT CONTROL INSPECTOR AT LEAST THREE (3) WORKING DAYS PRIOR TO STARTING WORK.

3. INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE AND OTHER SEDIMENT CONTROL DEVICES AS SHOWN IN THE SEDIMENT CONTROL PLAN. (1 WEEK)

4. GRADING AS ALL THE GRADED AREAS UP TO 20' OUTSIDE OF THE LIMIT OF GRADING AS PER PERMANENT SEEDING NOTES. (2 WEEKS)

5. EXCAVATE HOUSE FOUNDATION, HOUSE CONSTRUCTION, UTILITIES AND INSTALL SEPTIC. (20 WEEKS)

6. ANY AREAS THAT CAN BE TEMPORARILY SEEDING DURING CONSTRUCTION MUST BE TEMPORARILY STABILIZED PER SEEDING NOTES.

7. INSTALL DRIVEWAY. (2 WEEKS)

8. STABILIZE DISTURBED AREAS PER PERMANENT SEEDING NOTES.

9. UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR, REMOVE ALL TEMPORARY SEDIMENT CONTROL DEVICES FOR HOUSE CONSTRUCTION. (1 WEEK)

10. NOTIFY INSPECTOR FOR FINAL INSPECTION.

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

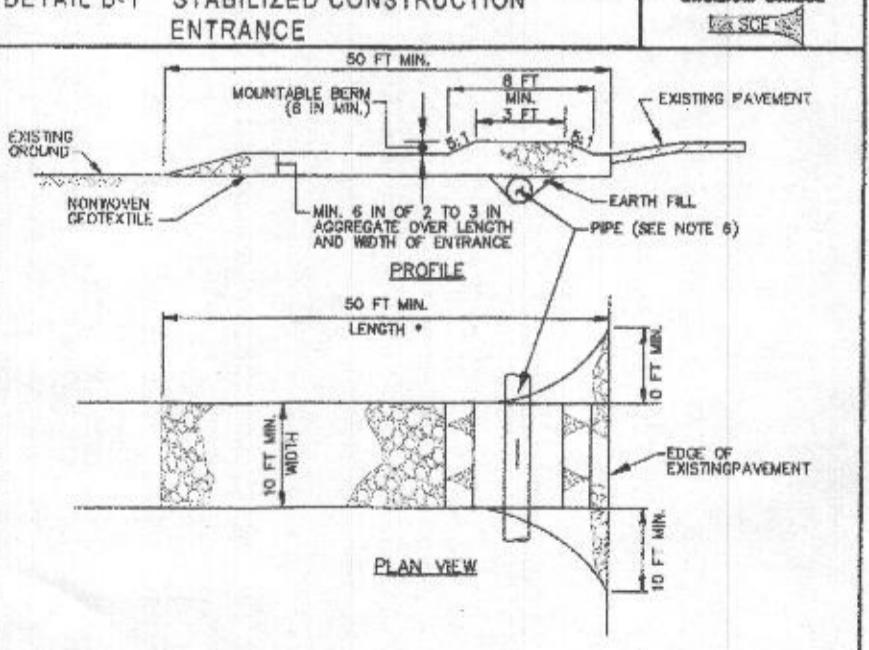
Definition:
To stabilize disturbed soils with permanent vegetation.

Purpose:
To use long-lived perennial grasses and legumes to establish permanent ground cover on disturbed soils.

Conditions Where Practice Applies:
Exposed soils where ground cover is needed for 6 months or more.

Criteria:
A. Seed Mixtures
1. General Use
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan.
b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting.
c. For sites having disturbed areas over 5 acres, use and show the rates recommended by the soil testing agency.
d. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 1/2 pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary.
2. Turfgrass Mixtures
a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites 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 conditions or purpose. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The summary is to be placed on the plan.
i. Kentucky Bluegrass: Full Sun Mixture: For use in areas that receive intensive management. Irrigation required in the areas of central Maryland and Eastern Shore. Recommended Certified Kentucky Bluegrass 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 to 35 percent of the total mixture by weight.
ii. Kentucky Bluegrass/Perennial Ryegrass Full Sun Mixture: For use in full sun areas where rapid establishment is necessary and when turf will receive medium to intensive management. Certified Perennial Ryegrass 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.
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 sun to medium shade. Recommended mixture includes: Certified Tall Fescue Cultivars 95 to 100 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 blended.
iv. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass and iv. For establishment in high quality, intensively managed turf area. Mixture includes: Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 1 1/2 to 3 pounds per 1000 square feet.
B. Turfgrass Installation
1. Turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turfgrass Cultural Recommendations for Maryland" Choose certified material. Certified material is the best guarantee of cultivar purity. The certification program of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of consumer protection and assures a pure genetic line.
2. Ideal Times of Seeding for Turf Grass Mixtures
a. Western MD: March 15 to June 1, August 1 to October 15 (Hardiness Zones: 5b, 6a)
b. Central MD: March 1 to May 15, August 15 to October 15 (Hardiness Zones: 6b)
c. Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15 (Hardiness Zones: 7a, 7b)
3. Turfgrass Installation
a. Turfgrass should be installed in a straight line with subsequent rows placed parallel to it and lightly wedged against each other. Stagger lateral joints to promote more uniform growth and strength. Ensure that the sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots.
b. Whenever possible, lay sod with the long edges parallel to the contour and with staggering (left and right) and otherwise secure the sod to prevent slippage on slopes. Ensure soil contact exists between sods and roots and the underlying soil surface.
c. 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 the operations of laying, tamping and irrigating for any piece of sod within eight hours.

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION SPECIFICATIONS

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SOE. USE MINIMUM LENGTH OF 50 FEET (30 FEET FOR SINGLE LANE DRIVE) AND MINIMUM OF 10 FEET. FLARE SIDE TO FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIIUS.

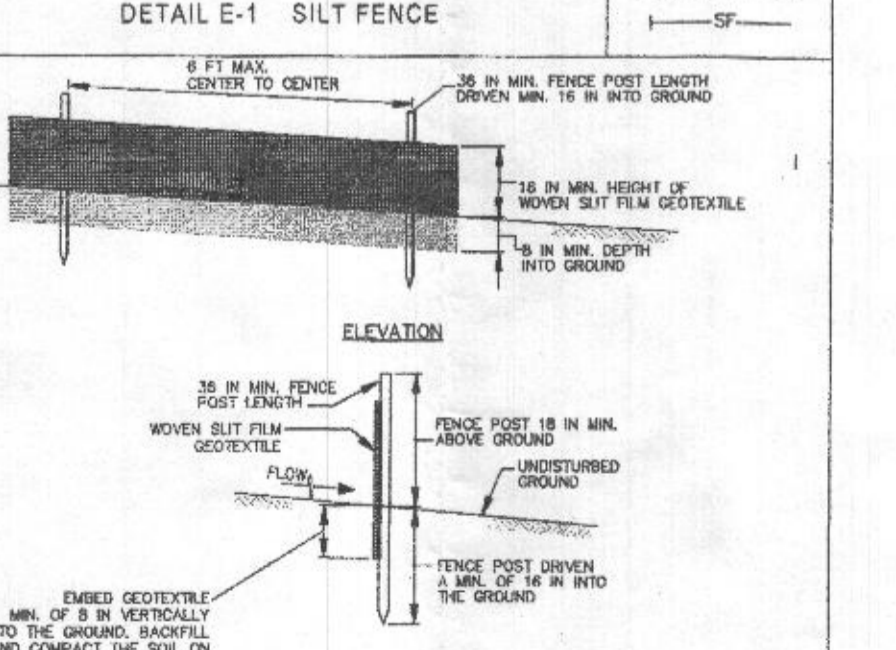
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SOE UNDER THE ENTRANCE. MAINTAINING POSITIVE DRAINAGE. PREVENT PIPE SETTLED THROUGH THE SOE WITH A MOUNTAINABLE BERM WITH A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE PIPE IS NOT NECESSARY, A MOUNTAINABLE BERM IS REQUIRED WHEN SOE IS NOT LOCATED AT A HIGH SPOT.

3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.

4. PLACE CURBED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SOE.

5. MAINTAIN ENTRANCE AS A CONTINUOUS BERM WITH A MINIMUM OF 12 INCHES OF STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAR SURFACE. MAINTAIN BERM OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAR SURFACE. MAINTAIN BERM OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAR SURFACE. MAINTAIN BERM OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAR SURFACE.

DETAIL E-1 SILT FENCE



CONSTRUCTION SPECIFICATIONS

1. PLACE SILT FENCE IN ACCORDANCE WITH THE APPROVED PLAN. SILT FENCE MUST BE 6 FEET WIDE AND 6 FEET HIGH. SILT FENCE MUST BE 6 FEET WIDE AND 6 FEET HIGH. SILT FENCE MUST BE 6 FEET WIDE AND 6 FEET HIGH.

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NOTES

Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turfgrass Cultural Recommendations for Maryland" Choose certified material. Certified material is the best guarantee of cultivar purity. The certification program of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of consumer protection and assures a pure genetic line.

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. 1841Z, Expiration Date: 9-18-23.

OWNERS:

WILLIAM L. & SUSAN L. DODD
17549 HARDY ROAD
MOUNT AIRY, MD. 21771

DEVELOPER:

VIKING CUSTOM HOMES
12600 FREDERICK ROAD
WEST FRIENDSHIP, MD. 21794
410-489-6728

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. 1841Z, Expiration Date: 9-18-23.

DEVELOPER'S CERTIFICATE:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION CONTROL, 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. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

Conrad 9/20/21
DEVELOPER DATE

ENGINEER'S CERTIFICATE:

"I HEREBY 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 ACC