

Building Permit Application

Howard County Maryland
Department of Inspections, Licenses and Permits
3430 Court House Drive
Permits: 410-313-2455 www.howardcountymd.gov

Date	Received	l:		

Permit No.: B17000709

Building Address: 1465 PSD. Land Derugs City: Nana Anistate Sophyridan R. D. Chem. 1797. Census Tract: Subdivision: Pao Land Value Estate Section: Area: 3.24 Length. Lot. 16 Section: Area: 3.24 Length. Lot. 16 Zoning: Map Coordinates: Lot Size: Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than stated herein) Applicant's Name 8 Mailing Address. (if other than st	City: Nach Maller State: AD 70 Code: A1797 Solite/Apt. # SOP/NP/BAR: F 07 CS Solite/Apt. # SOP/NP/BAR: F 07 CS Solite/Apt. # SOP/NP/BAR: F 07 CS Solite/Apt. # Solite: ALD 20 Code: A1797 Tax Map:						
Corp. MonDAPLES State: MAD 20 Code: 21727 Sophylipan F	Software for the following follows and the following fol	Building Address: 14665 PM	LION DEIVE		Property Owner	's Name: SALUATORY	E + ESTELA- VALENZIANO
Suite/Apt. R SOPPWP/BA N: FO7 BY Section: Subdivision: Page Lean Year Earth South size: Subdivision: Page Lean Year Earth Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant's Name & Mailing Address, (if other than stated herein) Applicant	SUITE PAPER SOP NOW PLANE FOR SUITE PAPER SOLVE FAXE CENTRE TESTS: SUPPLY APER SOLVE FAXES ON 16 FAXE THE MARP: PARCEL FIRE GOID THE MARP COORDINATES: LOT SIRE: SAME APPLICATION AND STATES FOR SOLVE	City: Who ha INP State:	MO Zip Code:	217972	Address: 1966	I RES I TOU DA	11/d.
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Coccupant/Tenant Name:	License No. MARE 36	Description of Work: LONSTRUET	HOUSE, 3 BE	COPCOM.	City: WOODBY	NE State: Mu	Zip Code: 1797
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Use group: Grawt Space	Use group: Gravit Space Crawl Space Construction type: Slab on Grade Public Publ			94	☐ Public		SERVICE METERS OF CONTRACTOR
Use group: Crawl Space Construction type: Slab on Grade Construction type: Constructio	Use group:	Area of construction (sq. ft.):			(2) Private		
Construction type: Slab on Grade Reinforced Concrete No. of Bedrooms: Multi-family Dwelling Structural Steel Multi-family Dwelling Wood Frame No. of 1 BR units: State Certified Modular No. of 2 BR units: No. of 3 BR units: Other Structure: Dimensions: Roadside Tree Project Permit Footings: Roadside Tree Project Permit Footings: Roadside Tree Project Permit State Certified Modular Manufactured Home THE UNDERSIGNED HERESY CERTIFIES AND AGREES AS FOLLOWS: (3) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPUCATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WALL COMP	Construction type: Crawl Space Public	Use group:	-		Şe	wage Disposal	SHORT VIEW
Reinforced Concrete	Reinforced Concrete		☐ Crawl Space		☐ Public		是14.76.00 国际(Chillian)
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Grading Permit Number: Roadside Tree Project Permit N	The undersigned here 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 come with all regulations of howard county yind are applicable thereto, (4) that he/she will perform no work on the above referenced property not specifically described this application; (3) that he/she will perform no work on the above referenced property not specifically described this application; (3) that he/she will perform no work on the above referenced property not specifically described this application; (3) that he/she will perform no work on the above referenced property not specifically described this application; (3) that he/she will perform no work on the above referenced property not specifically described this application; (3) that he/she will perform no work on the above referenced property not specifically described this application; (3) that he/she will demand the subject to the work permitted and positing notices. Applicant's Signature Print Name URLE MULL OY Date Print Name URLE MULL OY BUILDERS: Com Title/Company	Roadside Tree Project Permit					
Roadside Tree Project Permit # State Certified Modular Manufactured Home Building Shell Permit Number: 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 WALL COMP	Roadside Tree Project Permit # State Certified Modular Manufactured Home Building Shell Permit Number: 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 perform no work on the above referenced property not specifically described this application; (5) that he/she will perform no work on the above referenced property not specifically described this application; (5) that he/she will perform no work on the above referenced property not specifically described this application; (5) that he/she will perform no work on the above referenced property not specifically described this application; (5) that he/she will perform the york permitted and posting notices. Applicant's Signoture Print Name Hall Mulliple Silver Hall To Date				G	rading Permit Number	
Manufactured Home Building Shell Permit Number: 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 WALL COMP	Manufactured Home Building Shell Permit Number: 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 COMM WITH ALL REQUIATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THEAETO, (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY OSCINBED THIS APPLICATION; (5) THAT HE/SHE WILL PERFORM ON WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY OSCINBED THIS APPLICATION; (5) THAT HE/SHE WILL PERFORM ON WORK ON THE ABOVE REFERENCED PROPERTY OF THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES. APPLICATION SIGNATURE PRISTORY MULL OF BUILD SESSION Oute TIELE/Company TIELE/Company			dular			建筑村田村田
	WITH ALL REQUATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THEAFTO, (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED THIS APPLICATION; (5) THAT HE/SHE WORK ON THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES. S. DELL MULL OF PRINTED AND POSTING NOTICES. Applicant's Signoture NEW EMULLOY BUILDERS. COM Email Address PRESIDENT MULL OF BUILDERS Title/Company		☐ Manufactured Hon	ne	Build	ing Shell Permit Numi	ber:
	THIS APPLICATION; (S) THAT HE HERE STATE OUT OFFICIALS THE RIGHT TO ENTER OUT O THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES. S. NELL MULL OY Print Name NAIL E-MULL OY BUILDERS: Com Email Address PRESIDENT MULL OY BUILDERS Title/Company		ES AS FOLLOWS: (1) THAT HE/	SHE IS AUTHORIZED TO	MAKE THIS APPLICATION	(2) THAT THE INFORMATION	N IS CORRECT; (3) THAT HE/SHE WALL COMP
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Applicant's Signoture NALLEMULLOYBUILDERS: COM EMGIL Address PRESIDENT MULLOYBUILDERS Oute 4/2/17		PRESIDENT MULLOY	BULLOBES				

AGENCY DATE | SIGNATURE OF APPROVAL tate Highways Building Officials PSZA (Zoning) 982A | Engineering) 3/20/17 Rut Health

Is Sediment Control approval required for issuance (№ Yes) No

CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION Front Rear: Side: Side St.: tot Coverage for New Town Zone: SDP/Red-line approval date:

1000 Filing Fee Permit Fee Tech Fee Excise Tax **Guaranty Fund** Add'I per fee **Total Fees** Sub-Total Paid Balance Due Check

Distribution of Copies: White: Building Officials

Green: PSZA,Zoning

Yellow: PSZA Engineering

Pink: Health

Gold: SHA

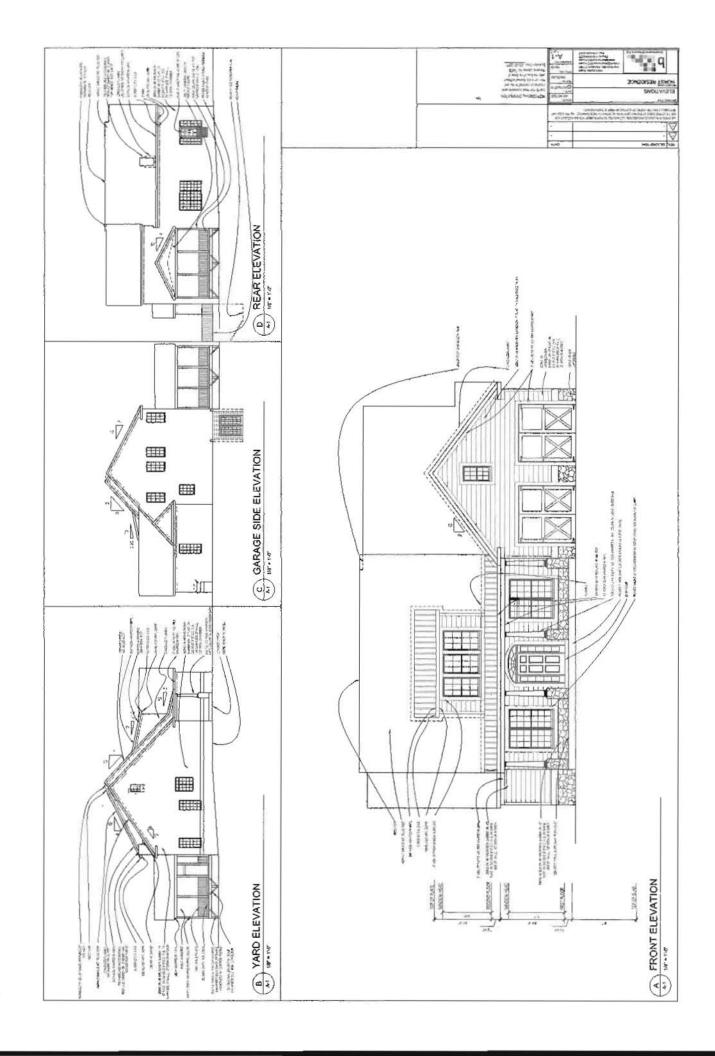
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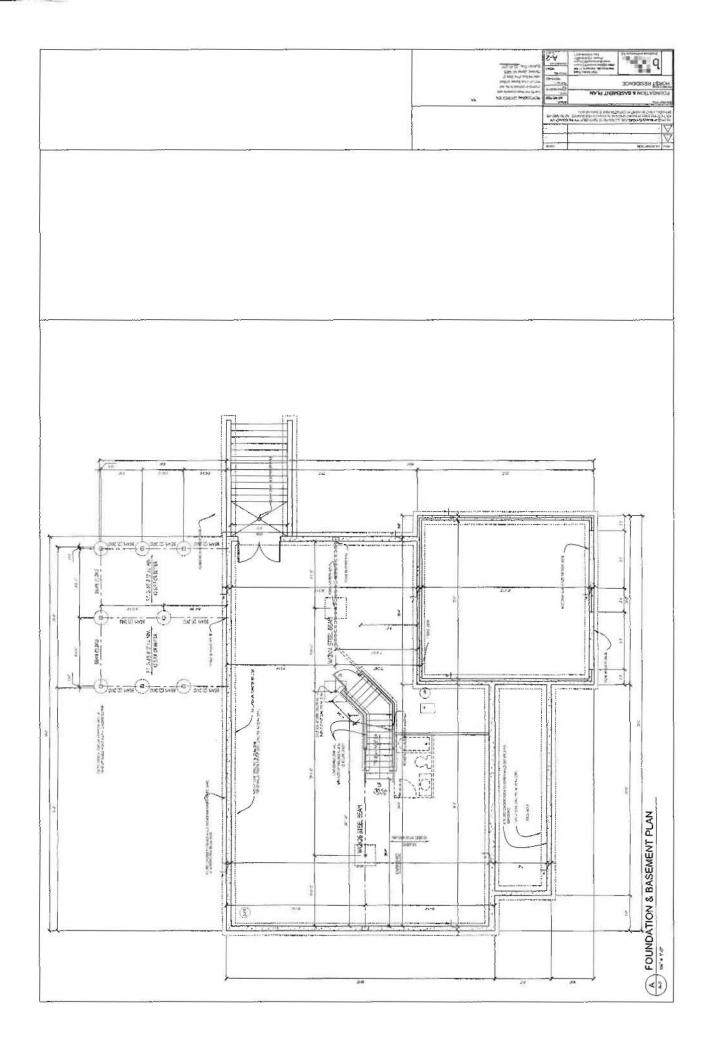
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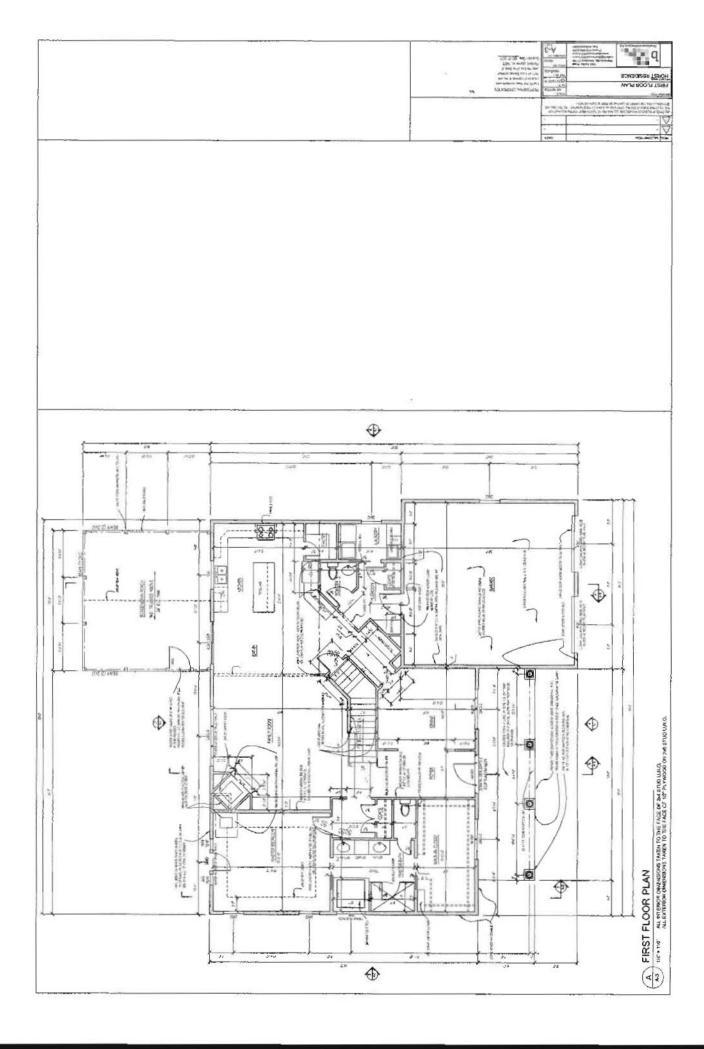
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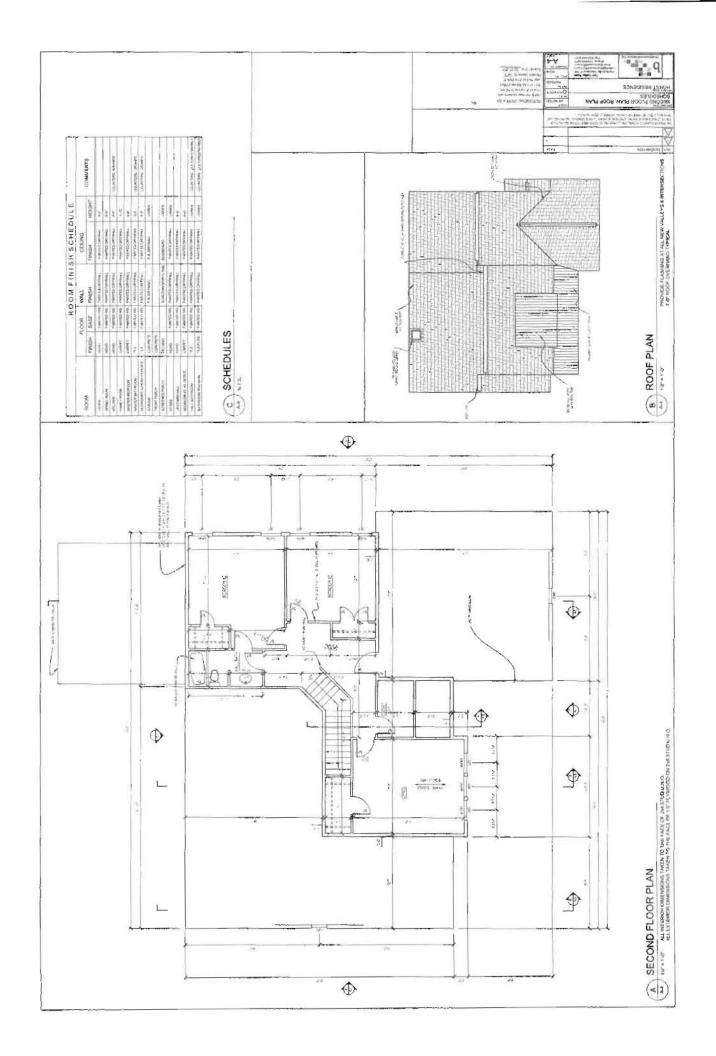
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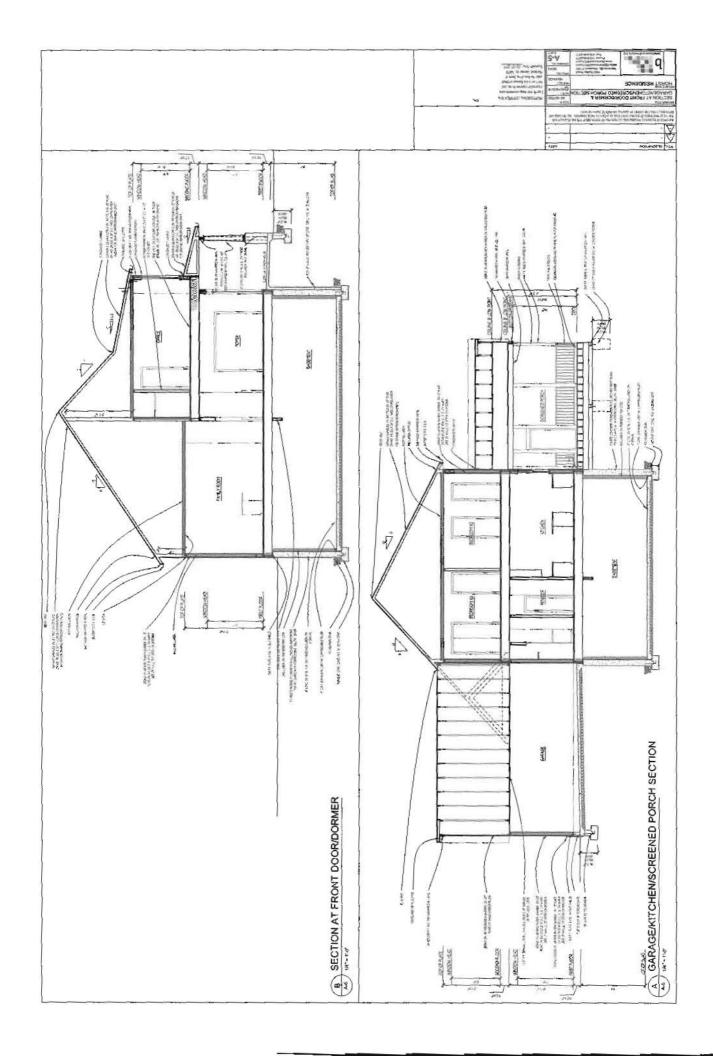
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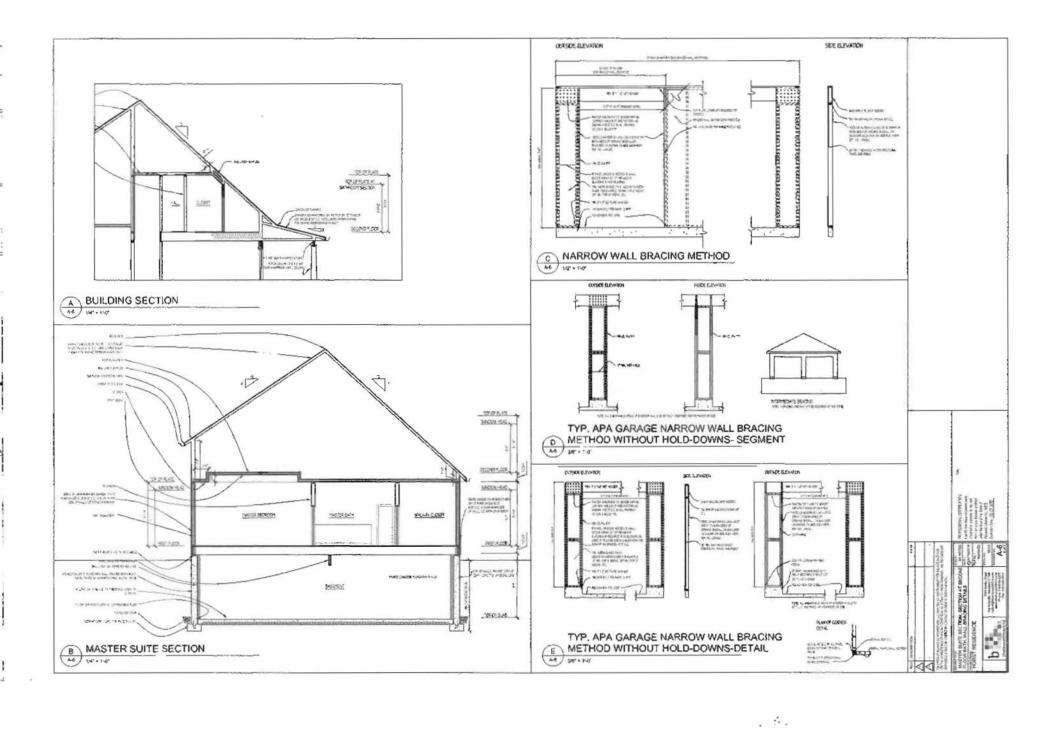


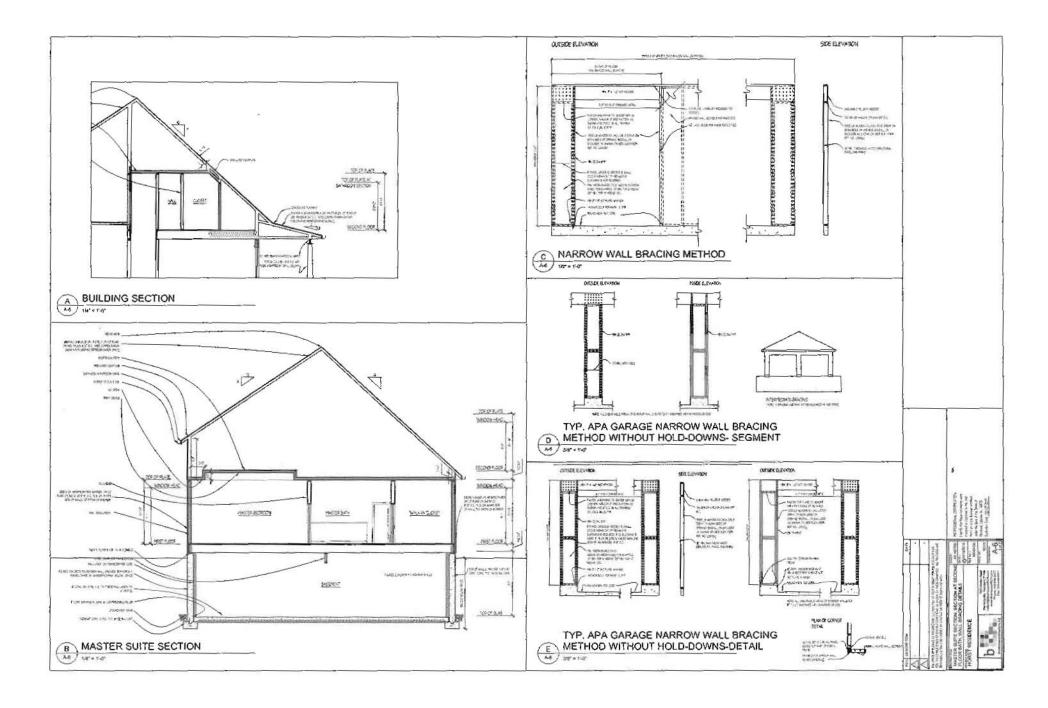


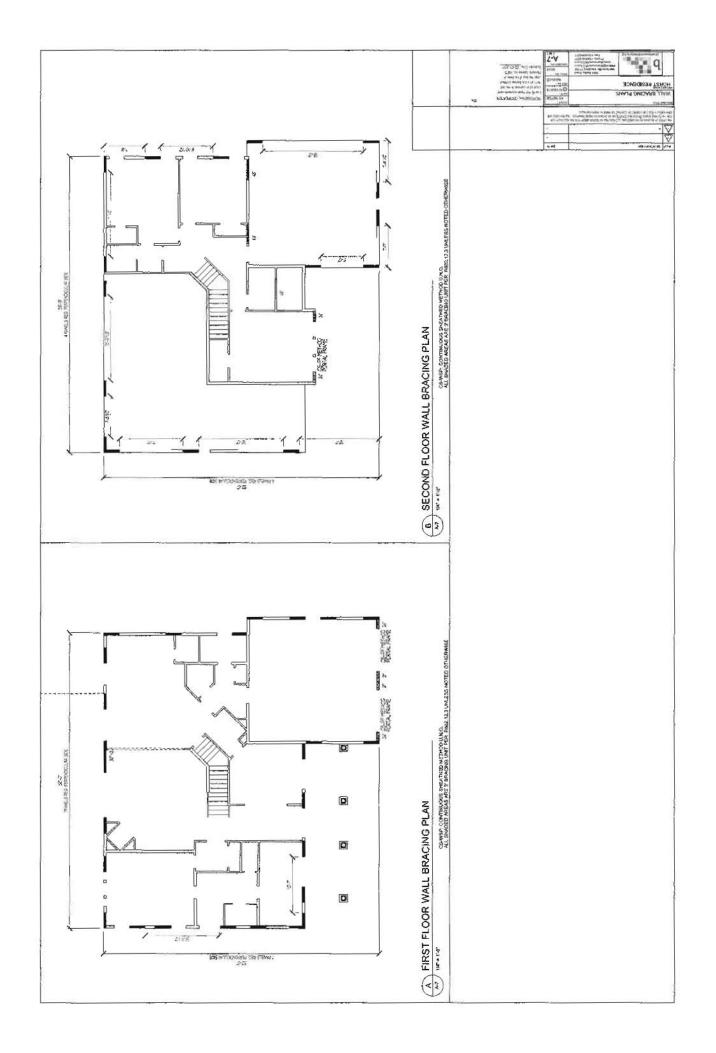














Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045 Main: 410-313-2640 | Fax: 410-313-2648 TDD 410-313-2323 | Yoff Free 1-866-313-6300 www.hchealth.org

Facebook: www.facebook.com/hocohealth Twitter: HowardCoHealthDep

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

MEMORANDUM

TO:

Neil Mulloy

1600 Hoods Mill Rd. Woodbing, MD 21797

FROM:

Robert Freemon

Well & Septic Program

RE:

14665 Red Lion Drive

Woodbine, MD 21797 (Potential Bedrooms)

DATE:

3/27/17

I have reviewed the floor plans in support of Building Permit B17000709 for a new home at 14665 Red Lion Drive 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
 - (lii) 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.

To:

neil@mulloybuilders.com

Subject:

Red Lion Lot 16

Attachments:

14665 Red Lion Drive.pdf

Hey Neil,

The floor plans I received show 4 bedrooms (1st Floor: 1BR; 2nd Floor: 3BR) according to our bedroom definition. Together with the full bath rough in in the unfinished basement this could potentially lead to a possible 5th bedroom upon completion. The septic system is designed to support a 4 bedroom house. It is our recommendation to apgrade the onsite septic system to accommodate a possible future bedroom addition. If you do not wish to apgrade the septic system I will need written confirmation that the attached memo was received and understood (can be sent via email). I have attached the memo which restates the above along with our bedroom definition. Let me know if you have any questions.

Robert Freemon Howard County Health Department 8930 Stanford Blvd. Columbia, MD 21045 Well and Septic Program Bureau of Environmental Health

Phone: 410-313-6357

Email: rfreemon@howardcountymd.gov

https://www.howardcountymd.gov/Departments/Health/Environmental-Health/Well-and-Septic

From:

John and Rosa < johnandrosa@gmail.com>

Sent:

Tuesday, March 28, 2017 11:12 PM

To:

Freemon, Robert; Neil Mulloy

Subject:

Red Lion Lot 16- potential bedrooms

Dear Mr Freemon,

We are the lot owners of lot 16 Red Lion Dr, Woodbine MD.

We are in receipt of your memo dated 3/27/2017 regarding the potential bedrooms.

We understand and acknowledge this memo and would like to keep the septic as originally designed for four bedrooms. Please accept this email as confirmation and acknowledgement of your memo.

Thank you,

John and Rosa Horst

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

Date:	3/21/17		
То:	ROBERT FREEMON-HO	WARD COUNTY M	EALTH DEPT
From:	(Person's Name and Division) NEIL-MULLO'S MULLOY BUILDED ((Your Name, Company Name and Telephone Number)	410) 924-464	3
Subject:	Project name HORST RESIDENCE		RECEIVED
	Project site address 14665 RED L	ION DRIVE	MAR 2 2 2017
	Permit# <u>\$17000,709</u> S	DP #	MAN Z Z ZON
	Other information pertinent to this project		PLAN REVIEW DIVISION
✓ Please ch	neck the attachments below that you are submitting with	this transmittal:	
Lett	ter of response to address plan review comment letter		
Rev	vised plans and/or revised details: When submitting for	a complete re-review, dupl	licate sets shall be submitted.
Let	tter Summarizing Changes		
	ergy conservation calculations		
✓ Cop	pies of FLOOR PLANS (be specific).		
	Health Department Request I	DPZ/ DED Request	Applicant's Request
	o sets of single family dwelling model plans to be place ner FOR MEACTH DEPT ONLY FL	1070	I name and/or #
Co	ontact Person Information: (Required)		
	NEIL MULLOY ease Print Name		110-984-4643
		E-Mail Address: /	NEILE MULLOYBUILDERS
NECESSAL INFORMA OF INSPE ONCE THE SIGNATOR WILL NO INQUIRIE AND PLAN	ASSURE ALL DOCUMENTS AND/OR REVISIONS RY, BY A LICENSED ARCHITECT OR ENGINE ATION MAY RESULT IN THE DELAY OF REVIEW ECTIONS, LICENSES AND PERMITS WILL CONTACT BUILDING PERMIT IS APPROVED BY THE PLATEY AGENCIES, AND THE BUILDING PERMIT IS STALL BE DIRECTED TO THE PERMIT DIVISOR REVIEW INQUIRIES SHALL BE DIRECTED TO ALLOW A MINIMUM OF FIVE (5) WORKING DAY OU.	ER. PLEASE BE ADVI V BY THE PLANS EXAM ACT YOU IF THERE IS A AN REVIEW DIVISION A S READY FOR ISSUANCE FOR PERMIT PICK OF ION AT 410-313-2455. C TO THE PLAN REVIEW	ISED THAT INSUFFICIENT INNER. THE DEPARTMENT IN PROBLEM. IN ADDITION, IND ALL OTHER REQUIRED IN THE PERMIT DIVISION UP. ALL PERMIT STATUS ODE RELATED QUESTIONS DIVISION AT 410-313-2436.
Received by	AKH	PER HEAL	92

White-Plan Review / Yellow-Applicant / Pink-Permit Division

t:\forms\transmit.frm - Rev. 04/2014

From:

Freemon, Robert

Sent:

Friday, March 17, 2017 12:17 PM

To:

'neil@mulloybuilders.com'

Subject:

14665 Red Lion

Hey Neil,

If floor plans were submitted to DILP for Red Lion Lot 16 I did not receive them. I need the complete floor plans printed on 11"x17" or smaller paper to be dropped off at DILP. The person dropping them off will also need to fill out DILP's transmittal form indicating these are additional floor plans to be sent to the Health Dept. only. Once this is done DILP will upload the floor plans so I can view them. The engineer and I are just about finished with the septic plan but before I can approve the building permit I need the floor plans. Let me know when the floor plans have been submitted so I can look for them. If you have any questions let me know.

Robert Freemon Howard County Health Department 8930 Stanford Blvd. Columbia, MD 21045 Well and Septic Program Bureau of Environmental Health

Phone: 410-313-6357

Email: rfreemon@howardcountymd.gov

https://www.howardcountymd.gov/Departments/Health/Environmental-Health/Well-and-Septic

- Spoke with Neil Mullay 3/20/17. Was told he would drop off plans tomorrow.

From:

Freeman, Robert

Sent:

Wednesday, March 08, 2017 10:56 AM

To:

'neil@mulloybuilders.com'

Cc:

'Ron Thompson'

Subject: Attachments: 14665 Red Lion Drive 14665 Red Lion Or. -3.pdf

M,

Attached are my comments for the building permit B17000709. Ron I received your plot plan dated 1/23/17 with the building permit. Last I checked we were discussing changing the OSDS Plan to be without a BAT Unit which is what this plot plan is showing. Can you confirm for me if this is the new septic plan? If so I will review it and send my comments otherwise if its approvable I will just ask for more copies. Let me know. Thanks.

Robert Freemon

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

Well and Septic Program

Bureau of Environmental Health

Phone: 410-313-6357

Email: rfreemon@howardcountymd.gov

https://www.howardcountymd.gov/Departments/Health/Environmental-Health/Well-and-Septic



HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 3430 Courthouse Drive M Ellicott City, Maryland 21043 M 410-313-2350

Marsha S. McLaughlln, Director

August 10, 2007

Sam Valenziano 14661 Red Lion Drive Woodbine, Maryland 21797

© a∗

Red Lion Inn Estates, Lots 13 - 18 Waiver Patition WP-07-131 Final Development Plan F-07-089

Dear Mr. Valenziano:

The Director of the Department of Planning and Zoning (DPZ) considered your request for a waiver of the Howard County Subdivision and Land Development Regulations. The Planning Director approved your request to waive Section 16.120(b)(5) of the Subdivision and Land Development Regulations, which requires that the noise level in the rear yard does not exceed the standard set in the Design Manual. Approval is subject to the following conditions:

1. The Maryland State Highway Administration is not responsible for noise mitigation now or in the future.

- 2. The petitioner shall add a note to the plat within or leading to the building envelopes of Lots 16 and 17 to read as follows: "This lot is within an area considered to exceed generally accepted noise levels established by the U.S. Department of Housing and Urban Development."
- 3. The petitioner shall add a General Note to the plat indicating the Walver Petition number, section of regulations waived, and description of the regulation waived.
- 4. The peritioner shall minimize forest clearing in the southern portions of Lots 16 and 17.
- 5. The petitioner shall provide evergreen plantings between the new houses and the 1-70 noise source to lessen excessive noise levels.
- 6. The following house design guidelines shall apply to the new houses to be constructed on Lots 16 and 17:
 - a. The new bouses shall be located on the subject lots as far as feasible from the L-70 right-of-way.
 - b. The new houses shall be criented on the subject lots to afford the optimal protection from the 1-70 noise source,
 - c. The new houses shall be constructed with acoustical insulation and other noise attenuation material such as siding, windows and doors, stc. to provide maximum protection from excessive noise levels.

Indicate this waiver petition file number, request, section of the regulations, action, conditions of approval, and date on all related plats, site development plans, and building permits. This waiver will remain valid for one year from the date of this letter or as long as the subdivision plan remains in active processing.

Should you have any questions please contact David Boellner by telephone at 410-313-2350 or by e-mail at docellner@howardcountymd.gov.

Sincerely.

Cindy Hamilton, Chlef

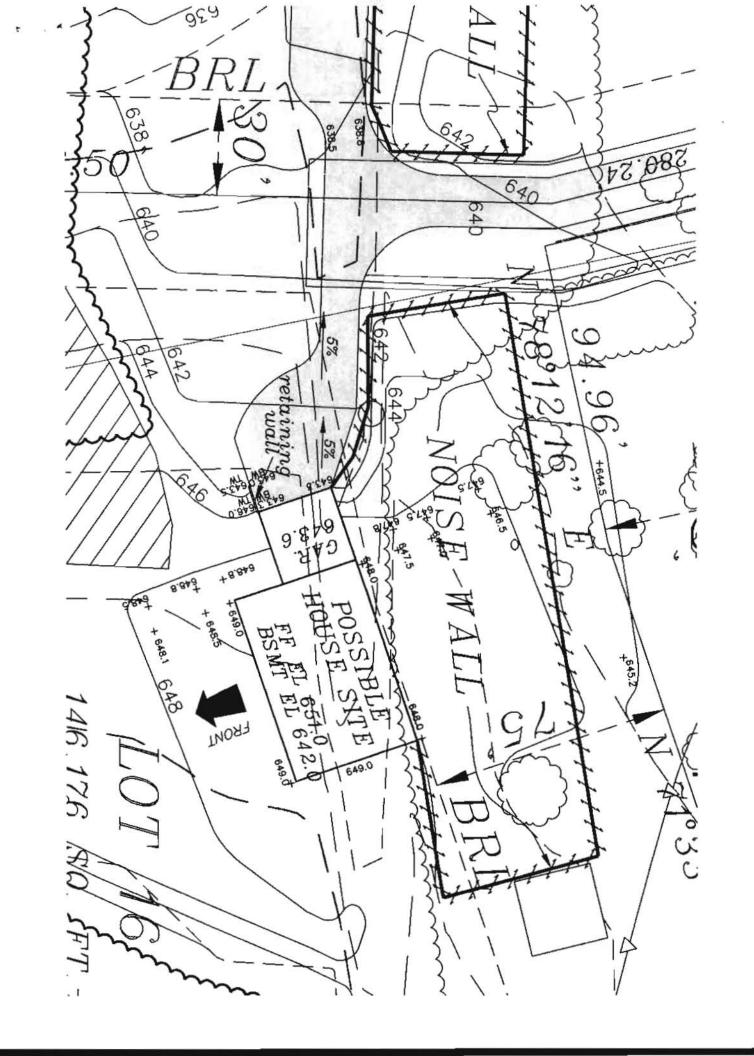
Division of Land Development

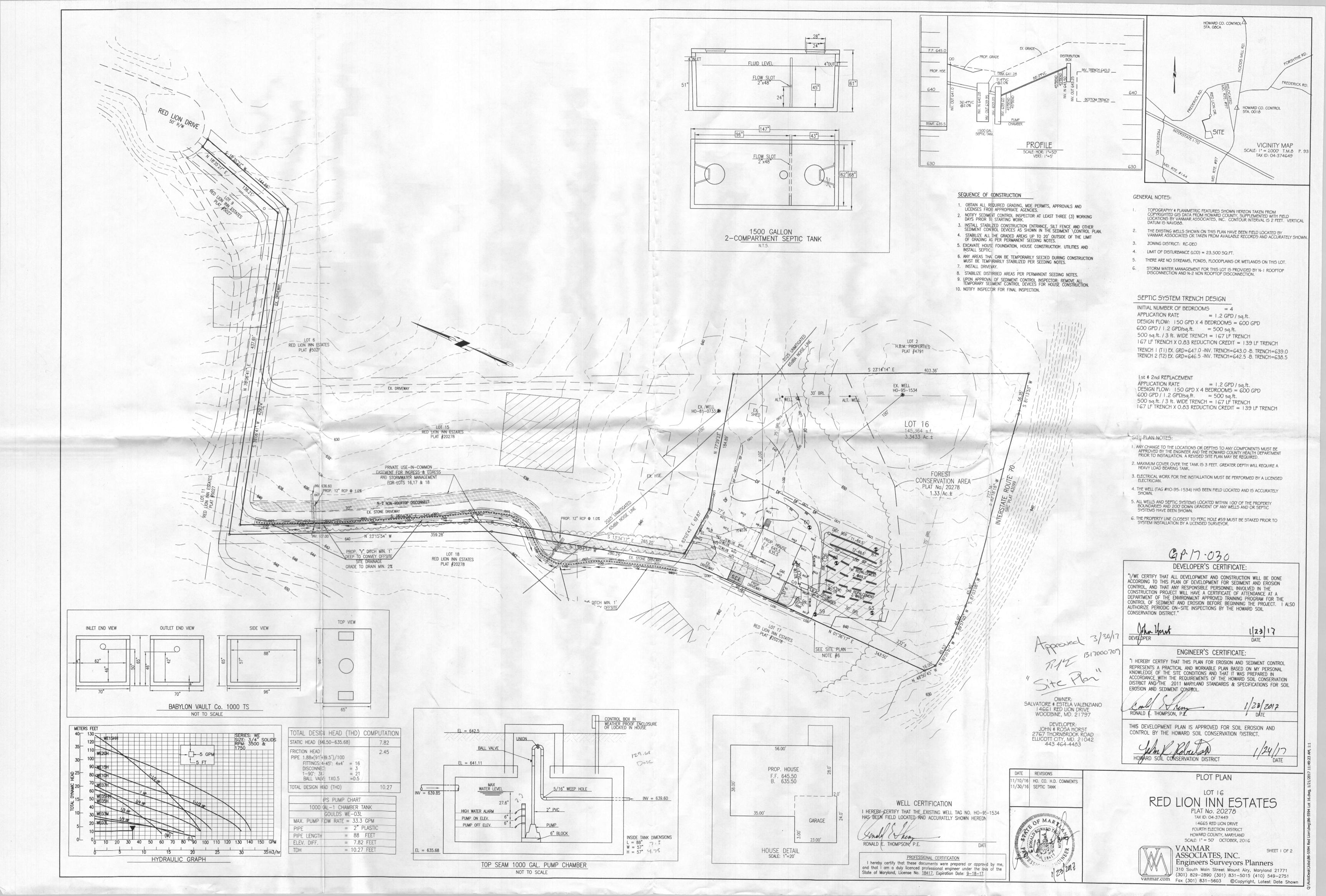
CH/DBB

CC: DPZ-Research

DPZ-DED

Shaneberger & Lane File, F-07-089





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.

- A. Seed Mixtures 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 area over 5 acres, use and show the rates recommended by the soil

1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments

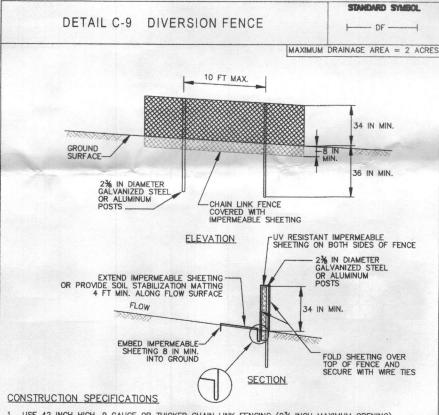
- d. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 ½ pounds per
- shown in the Permanent Seeding Summary. 2. Turfgrass Mixtures
- a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of 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. Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in full sun areas whererapid 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 v. 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: 1½ to 3 pounds per 1000 square feet.

Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turfgrass Cultivar 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

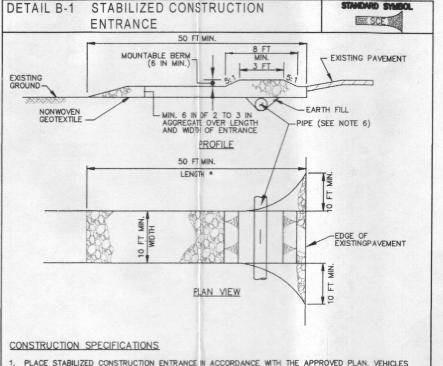
- a pure genetic line. Ideal Times of Seeding for Turf Grass Mixtures Western MD: March 15 to June 1. August 1 to October 1 (Hardiness Zones: 5b, 6a) Central MD: March 1 to May 15, August 15 to October 15 (Hardiness Zone: 6b) Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15 (Hardiness Zones: 7a, 7b)
- Till areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 1½ inches in diameter. The resulting seedbed must be in such condition that future mowing of grasses will pose no difficulty.
- If soil moisture is deficient, supply new seedings with adequate water for plant growth (1/2 to 1 inch every 3 to 4 days depending on soil texture) until they are 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.
- Sod: To provide quick cover on disturbed areas (2:1 grade or flatter). **General Specifications**
- Class of turfgrass sod must be Maryland State Certified. Sod labels must be made available to
- the job foreman and inspector.
- Sod must be machine cut at a uniform soil thickness of ¾ inch, plus or minus ¼ inch, at the time of cutting. Measurement for thickness must exclude top growth and thatch. Broken pads and torn or uneven ends will not be acceptable.
- ik. Standard size sections of sod must be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the
- Sod must not be harvested or transplanted when moisture content (excessively dry or wet) may adversely affect its survival. im. Sod must be harvested, delivered, and installed within a period of 36 hours. Sod not
- transplanted within this period must be approved by an agronomist or soil scientist prior to its installation.
- Sod Installation
- During periods of excessively high temperature or in areas having dry subsoil, lightly irrigate the subsoil immediately prior to laying the sod.
- Lay the first row of sod in a straight line with subsequent rows placed parallel to it and tightly wedged against each other. Stagger lateral joints to promote more uniform growth and strength. Ensure that 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.
- Wherever possible, lay sod with the long edges parallel to the contour and with staggering 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.
- 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.

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN ALL REQUIRED GRADING, MDE PERMITS, APPROVALS AND
- LICENSES FROM APPROPRIATE AGENCIES. 2. NOTIFY HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION (410-313-1850) AT LEAST 24-HOURS PRIOR TO STARTING WORK.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE. INSTALL REMAINING SEDIMENT AND EROSION CONTROL MEASURES.
- CONSTRUCT HOUSE AND SEPTIC SYSTEM.
- INSTALI DRIVEWAY PAVEMENT.
- STABILIZE ALL DISTURBED AREAS PER PERMANENT STABILIZATION. NOTIFY HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS FOR FINAL INSPECTION OF COMPLETED PROJECT.



- USE 42 INCH HIGH, 9 GAUGE OR THICKER CHAIN LINK FENCING (2% INCH MAXIMUM OPENING). USE 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. THE POSTS DO NOT NEED TO BE SET IN CONCRETE.
- FASTEN CHAIN LINK FENCE SECURELY TO THE FENCE POSTS WITH WIRE TIES.
- SECURE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING TO CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT TOP, MID SECTION, AND BELOW GROUND SURFACE.
- EXTEND SHEETING A MINIMUM OF 4 FEET ALONG FLOW SURFACE AND EMBED END A MINIMUM OF 8 INCHES INTO GROUND. SOIL STABILIZATION MATTING MAY BE USED IN LIEU OF IMPERMEABLE SHEETING ALONG FLOW SURFACE.
- WHEN TWO SECTIONS OF SHEETING ADJOIN EACH OTHER, OVERLAP BY 6 INCHES AND FOLD WITH SEAM
- KEEP FLOW SURFACE ALONG DIVERSION FENCE AND POINT OF DISCHARGE FREE OF EROSION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE. REPLACE IMPERMEABLE SHEETING IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE. MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL 2011



CONSTRUCTION SPECIFICATIONS MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT), USE MINIMUM WOTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.

- PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- PLACE CRUSHED AGGREGATE (2 TO 3 INCHES N SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUIMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.
- MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

STANDARD SYMBOL DETAIL E-1 SILT FENCE -----SF-----CENTER TO CENTER 36 IN MIN. FENCE POST LENGTH DRIVEN MIN. 16 IN INTO GROUND 16 IN MIN. HEIGHT OF WOVEN SLIT FILM GEOTEXTILE ELEVATION CROSS SECTION STAPLE-STAPLE-STAPLE TWIST POSTS TOGETHER STAPLE -STAPLE STAPLE-JOINING TWO ADJACENT SILT FENCE SECTIONS (TOP VIEW)

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

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

To provide a suitable soil medium for vegetative growth.

Conditions Where Practice Applies:

Where vegetative stabilization is to be established.

A. Soil Preparation . Temporary Stabilization a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened, it must not be rolled or dragged smooth but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contour of the slope.

b. Apply fertilizer and lime as prescribed on the plans. . Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means. a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil

conditions required for permanent vegetative establishment are: i. Soil pH between 6.0 and 7.0. ii. Soluble salts less than 500 parts per million (ppm) iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception: if lovegrass will be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable

iv. Soil contains 1.5 percent minimum organic matter by weight.v. Soil contains sufficient pore space to permit adequate root penetration. b. Application of amendments or topsoil is required if on-site soils do not meet the above conditions. c. Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches. B.13 d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test. e. Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Rake lawn areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by dragging with a heavy chain or other equipment to pughen the surface where site conditions will not permit normal seedbed

condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loose and friable. Seedbed loosening may be unnecessary on newly disturbed areas. . 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 nurrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation. Topsoil salvaged from an existing site may be used provided it meets the standards as 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.

preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular

Topsoiling is limited to areas having 2:1 or flatter slopes where: a. The texture of the exposed subsoil/parent material is not adequate 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 moisture 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. 4. Areas having slopes steeper than 2:1 require special consideration and design.

5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria: . Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand. 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 1½ inches in diameter. 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. 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.

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 sodding 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.14 and seedbed preparation C. Soil Amendments (Fertilizer and Lime Specifications)

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 e used for chemical analyses. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Manure may be substituted for fertilizer with prior approval from the appropriate appoyal authority. Fertilizers must all be delivered to the site fully labeled according to the applicable less and must bear the name, trade name or trademark and warranty of the producer.

Lime material 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 98 to 100 percent will pass through a #20 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.

Hardiness Zone (from Figure B.3): 6b

Seeding Dates

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

A mound or pile of soil protected by appropriately designed erosion and sediment

To provide a designated location for the temporary storage of soil that controls the

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

2. The footprint of the stockpile must be sized to accommodate the anticipated

volume of 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

1. The stockpile location and all related sediment control practices must be clearly

Runoff from the stockpile area must drain to a suitable sediment control practice.

B-4-8 STANDARDS AND SPECIFICATIONS

STOCKPILE AREA

<u>Definition</u>
A mound or pile of soil protected by appropriately designed erosion and sediment control measures.

Conditions Where Practice Applies

Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

3. Runoff from the stockpile area must drain to a suitable sediment control practice.

Stockpiles containing contaminated material must be covered with impermeable sheeting.

To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and

1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment

2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side

5. 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.

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

. 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.

8. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup.

Maintenance
The stockpile area must continuously meet the requirements for Adequate Vegetative 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 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

slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading.

potential for erosion, sedimentation, and changes to drainage patterns.

indicated on the erosion and sediment control plan.

4. Access the stockpile area from the upgrade side.

4. Access the stockpile area from the upgrade side.

used to intercept the discharge.

changes to drainage patterns.

Seed Mixture (from Table B.1):

Seed Mixture (from Table B.3)

20

Species

No. Species Application Rate

Application Rate (lb/ac)

. 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.

Seeding Dates

TEMPORARY STABILIZATION SPECIFICATIONS TABLE

JUNE 1 - JULY 31 0.5 INCHES

PERMANENT STABILIZATION SPECIFICATIONS TABLE

Seeding Depths

1/4-1/2 in

1/4-1/2 in

1/4-1/2 in

Seeding Depths

0.5 INCHES

1000 sf)

Fertilizer Rate

436 lb/ac

45 pounds | 90 lb/ac | 90 lb/ac (90 | 2 tons/ac

per acre (2lb/1000 sf) | lb/1000 sf) | (90 lb/

P205

(10-20-20)

(10 lb/1000 sf) (90 lb/1000 sf)

K20

ndard B-4-4 Temporary Stabilization.

Lime Rate

2 tons/ac

1000 sf)

5. 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

3. Where runoff concentrates along the toe of the stockpile fill, an appropriate

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

8. If the stockpile is located on an impervious surface, a liner should be

contaminated material must be covered with impermeable sheeting.

provided below the stockpile to facilitate cleanup. Stockpiles containing

The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative

tabilization. Side slopes must be maintained at no steeper than a 2:1 ratio.

The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1slopes, 30 feet for 3:1 slopes, or 40 feet

for 4:1 slopes, benching must be provided in accordance with Section B-3

erosion/sediment control practice must be used to intercept the discharge.

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

The application of seed and mulch to establish vegetative cover.

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.

a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate. b. Mulch alone may be applied between the fall and spring seeding dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws.

c. Inoculants: The inoculant for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75 to 80 degrees Fanrenheit can weaken bacteria and make the inoculant less effective. d. Sod or seed must not be placed on soil which has been treated with soil sterilants or

chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials. a. Dry Seeding: This includes use of conventional drop or broadcast spreaders. i. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1, Permanent Seeding Table B.3, or site-specific seeding summaries. ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with a weighted roller to provide good seed to soil contact. B.16

b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.

. Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. c. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer). i. If 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 05 (phosphorous), 200 pounds per acre; K2 0 (potassium), 200 pounds per acre.

ii. 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 iii. Mix seed and fertilizer on site and seed immediately and without interruption. iv. When hydroseeding do not incorporate seed into the soil.

1. Mulch Materials (in order of preference) a. Straw consisting of thoroughly threshed wheat, rye, cat, 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 dusty. Note: Use only sterile straw mulch in areas where one species of grass is desired. b. Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose processed into a uniform fibrous physical state.

i. WCFM 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. WCFM, including dye, must contain no germination or growth inhibiting factors. iii. WCFM 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 olend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a blotter-like ground cover, on application, having moisture absorption and percolation properties and must cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings. iv. WCFM material must not contain elements or compounds at concentration levels that will

v. WCFM 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.17

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. Wood cellulose fiber used as mulch must be applied at a net dry weight of 1500 pounds per acre. Mix the wood cellulose fiber with water to attain a mixture with a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.

a. Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water. This may be done by one 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, out 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 straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water. ii. Synthetic binders such as Acrylic DLR (Agro-Tack), DCA-70, Petroset, Terra Tax II, 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 asphalt 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.

PROFESSIONAL CERTIFICATION

and that I am a duly licenced professional engineer under the laws of the

State of Maryland, License No. 18417, Expiration Date: 9-18-17.

I hereby certify that these documents were prepared or approved by me,

DUST CONTROL

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN: . THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND

DUST CONTROL METHOD FOR THIS SITE TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES: CALCIUM CHLORIDE SHALL BE APPLIED TO EXPOSED SURFACES AT A RATE THAT WILL KEEP SURFACE MOIST UNTIL SOIL IS STABILIZED ACCORDING TO VEGETATIVE SPECS. FOR THIS SITE AND AREAS TO BE PAVED ARE COMPLETED.

. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED

STANDARD STABILIZATION NOTE

AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

SALVATORE & ESTELA VALENZIANO 14661 RED LION DRIVE WOODBINE, MD. 21797 JOHN & ROSA HORST

2767 THORNBROOK ROAD ELLICOTT CITY, MD. 21042

443-464-4483

conte to peny RONALD E. THOMPSON, P.E.

CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

EROSION AND SEDIMENT CONTROL.

REVISIONS

SITE PLAN FOR BAT TECHNOLOGY LOT 16 RED LION INN ESTATES

PLAT No. 20278 TAX ID: 04-37449 14665 RED LION DRIVE

FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: 1" = 50' OCTOBER, 2016 VANMAR



SHEET 2 OF 2 ASSOCIATES, INC. **Engineers Surveyors Planners** 310 South Main Street Mount Airy, Maryland 21771 (301) 829-2890 (301) 831-5015 (410) 549-2751 vanmar.com Fax (301) 831-5603 @Copyright, Latest Date Shown

to CID must be given a the following stages: a. Prior to the start of earth disturbance,

d. Prior to the removal or modification of sediment control practices. 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

HOWARD SOIL CONSERVATION DISTRICT

STANDARD SEDIMENT CONTROL NOTES

Public Works, Construction Inspection Division (CID), 410-313-1855 after the future

LOD and protected area marked clearly in the field. A minimum of 48 hour notice

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

1) A pre-construction meeting must occur with the Howard County Department of

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

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, 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-4-5), temporary seeding (Sec. B-4-4) and mulching (Sec. B-4-3). 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 matting (Sec. B-4-6). 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

Total Area of Site 3.3433 Acres. 0.95 Acres. Area to be roofed or paved Area to be vegetatively stabilized

0.12 Acres. 0.42 Acres. 130 Cu. Yds. Offsite waste/borrow area location

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 CID. 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 * Inspection type (routine, pre-storm event, during rain event) * 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

* Evidence of sediment discharges * Identification of plan deficiencies

6) Site Analysis:

Area Disturbed

Total Cut

* Identification of sediment controls that require maintenance * Identification of missing or improperly installed sediment controls * Compliance status regarding the sequence of construction and stabilization

* 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. 0) 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 allowed by the CID per the list of HSCD—approved field changes. 1) 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 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 preceding grading unit has been stabilized and approved by the HSCD. Unless otherwise specified and approved by

the Howard Soil Conservation District, no more than 30 acres cumulatively may be disturbed at a given time. 12) Wash water from any equipment, vehicles, wheels, pavement, and other sources must be treated in a sediment basin or other approved washout 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 interval, with lower ends curled uphill by 2' in elevation. 15) Stream channels must not be disturbed during the following restricted time periods * Use I and IP March 1 - June 15

* Use III and IIIP October 1 - April 30 * Use IV March 1 - May 31

DEVELOPER

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.

DEVELOPER'S CERTIFICATE

1/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."

> 1/23/1 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

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND

HOWARD SOIL CONSERVATION DISTRICT