

Martin O'Malley
Governor

Anthony G. Brown
Lt. Governor



Margaret G. McHale
Chair

Ren Serey
Executive Director

STATE OF MARYLAND
CRITICAL AREA COMMISSION
CHESAPEAKE AND ATLANTIC COASTAL BAYS

1804 West Street, Suite 100, Annapolis, Maryland 21401

(410) 260-3460 Fax: (410) 974-5338

www.dnr.state.md.us/criticalarea/

November 20, 2008

Ms. Roxana Whitt
• Calvert County Board of Appeals
150 Main Street
Prince Frederick, Maryland 20678

Re: 08-3558 Camp Variance

Dear Ms. Whitt:

Thank you for providing information on the above-referenced variance application. The applicant is requesting a variance to allow redevelopment of an existing single family dwelling in the Limited Development Area (LDA), within the 100 foot cliff setback, partially within the 100-foot Buffer and on slopes 15% or greater. Based on the extent of slopes on the property, it appears the whole site may be encompassed by the expanded Buffer. The property is currently developed with a single-family dwelling. The applicant has proposed to remove the existing house, and proposes to locate the new house approximately on the same footprint as the existing house.

Based on the information provided, we do not generally oppose a variance on this site. However, prior to award of a variance, we recommend that the Board consider the following factors relative to the County's Critical Area Program.

Given the extent of impacts to the Buffers, we recommend that the Board required a Buffer Management Plan to be provided to the Office of Planning and Zoning that details existing and proposed structures in both the Buffer and the expanded Buffer, and provides detailed mitigation and planting plans. Mitigation for disturbance within the expanded Buffer should be provided at a 2:1 ratio. This mitigation and Buffer Management Plan should be required as a condition of the variance approval. The areas intended to accommodate the mitigation should be identified on the site plan and located in the Buffer or expanded Buffer to the extent possible.

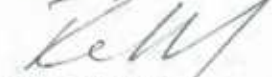
Impervious surfaces are now referred to as lot coverage, under Chapter 119 of the 2008 Laws of Maryland. Since it appears that the applicant applied for the variance after October 1, 2008, the applicant does not qualify to be grandfathered under the County's impervious surface area provisions in place prior to July 1, 2008. Therefore, the plan must be revised to utilize the term lot coverage and all surfaces meeting the definition of lot coverage in the law must be counted towards the 15% lot coverage limit for the site. It is unclear if the driveway and an apparent road and cul-de-sac have been included in the lot coverage calculations.

Section 8-1.04.10 of the County Ordinance provides specific sediment and erosion 11/24/2008 plan. In addition, while the site plan states that stormwater management is not required under State law, we recommend that the Board consider a requirement for some type of structural or nonstructural stormwater practice which captures the rooftop runoff from the new dwelling. Given the dwelling's location in the Buffer and that ample opportunity exists to incorporate water quality improvements into the redevelopment design, stormwater management seems prudent.

Section 8-1.04.3 provides regulations for clearing of forest and developed woodlands. If clearing of vegetation is proposed outside of the Buffer and expanded Buffer, mitigation for this clearing is also required. As previously stated, all mitigation should be required as a condition of the variance approval and should be identified on the site plan. There is a plan note stating afforestation of 400 sq. ft, but its location is not identified on the plan. Please have the applicant clarify.

Thank you for the opportunity to provide comments. Please include this letter in your file and submit it as part of the record for this variance. Also, please notify the Commission in writing of the decision made in this case. If you have any questions, please contact me at (410) 260-3468.

Sincerely,



Roby Hurley
Natural Resources Planner
CA 616-08

**CALVERT COUNTY BOARD OF APPEALS
ORDER**

**Case No. 08-3558
Public Hearing: December 4, 2008**

Courtney T. Camp has applied on behalf of the property owner Margaret Camp for a variance in the 100' waterfront and extended buffer requirement and for a variance in the cliff setback requirement for construction of a house, deck, porch and septic system. The property is located at 3319 Bayview Drive, Chcsapeake Beach (Tax Map 16A, Lots 8, 1/2-9, & 1/2 12, Willows Colony) and is zoned RD Residential District.

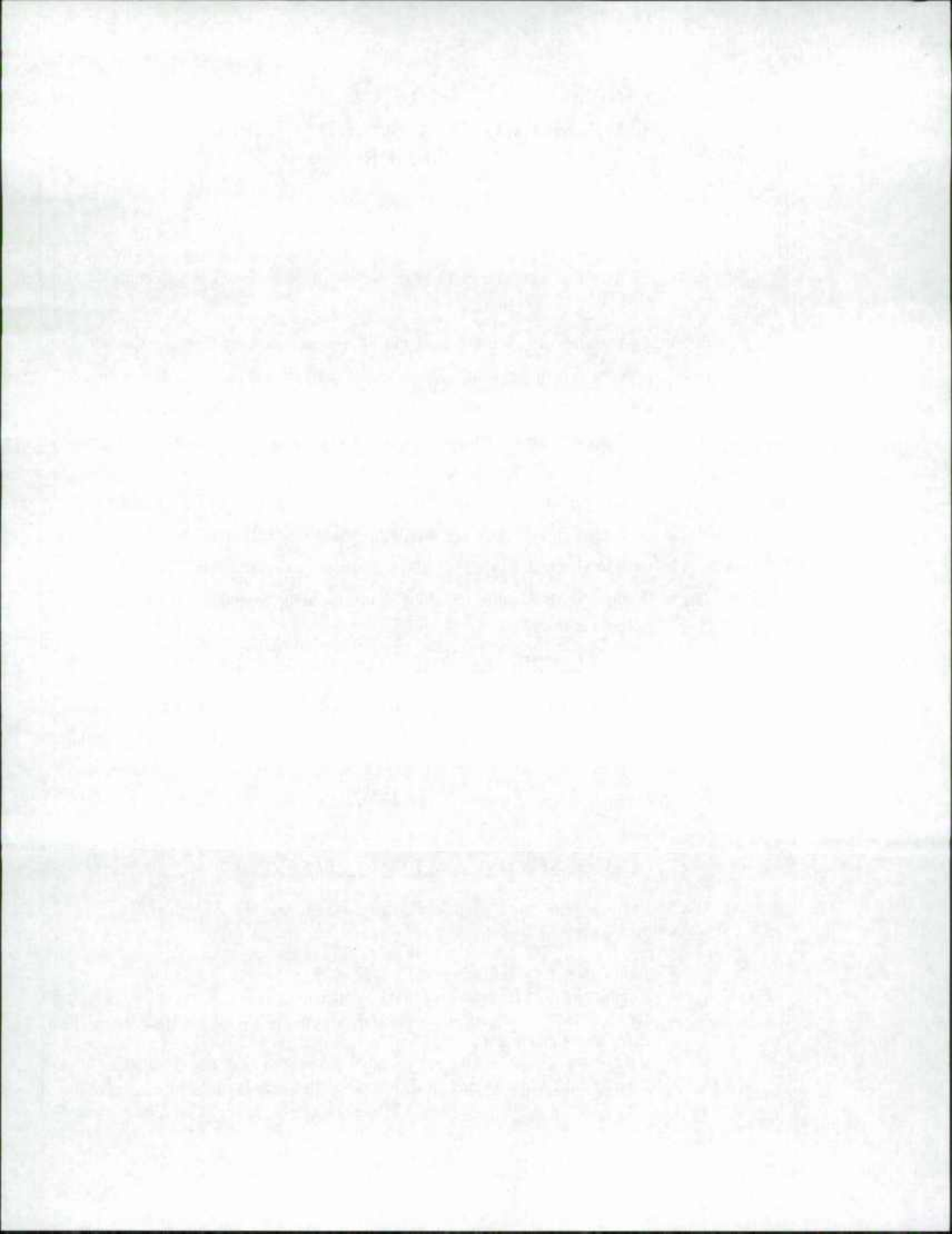
The case was presented December 4, 2008 before Board of Appeals members Mr. Michael Reber, Chairman; Mr. Michael Redshaw, member; and Mrs. Lisa Sanders (the Board). Mr. Carlton Green, Esquire, served as the Board's Counsel. Mr. Courtney Camp, Mrs. Margaret Camp and Ms. Cynthia Garvin were present at the hearing.

AUTHORITY OF THE BOARD OF APPEALS

The jurisdiction of the Board of Appeals is based on Article 66B of the Annotated Code of Maryland, as amended. Article 11 Section 1.01.B of the Calvert County Zoning Ordinance provides that the Board of Appeals shall have the authority to grant variances from the Critical Area requirements of Section 8-1 of the Ordinance.

TESTIMONY & EVIDENCE PRESENTED

1. The following Applicant's Exhibits were entered into the record at the December hearing:
 - Exhibit No. 1 – Application
 - Exhibit No. 2 – Plat Submitted With Application
 - Exhibit No. 3 – Statement to the Calvert County Board of Appeals, dated December 4, 2008
 - Exhibit No. 4 - Letter dated December 3, 2008 to Ms. Roxana Whitt from M.A.F. & Associates, LLC, RE: 08-3558 Camp Property

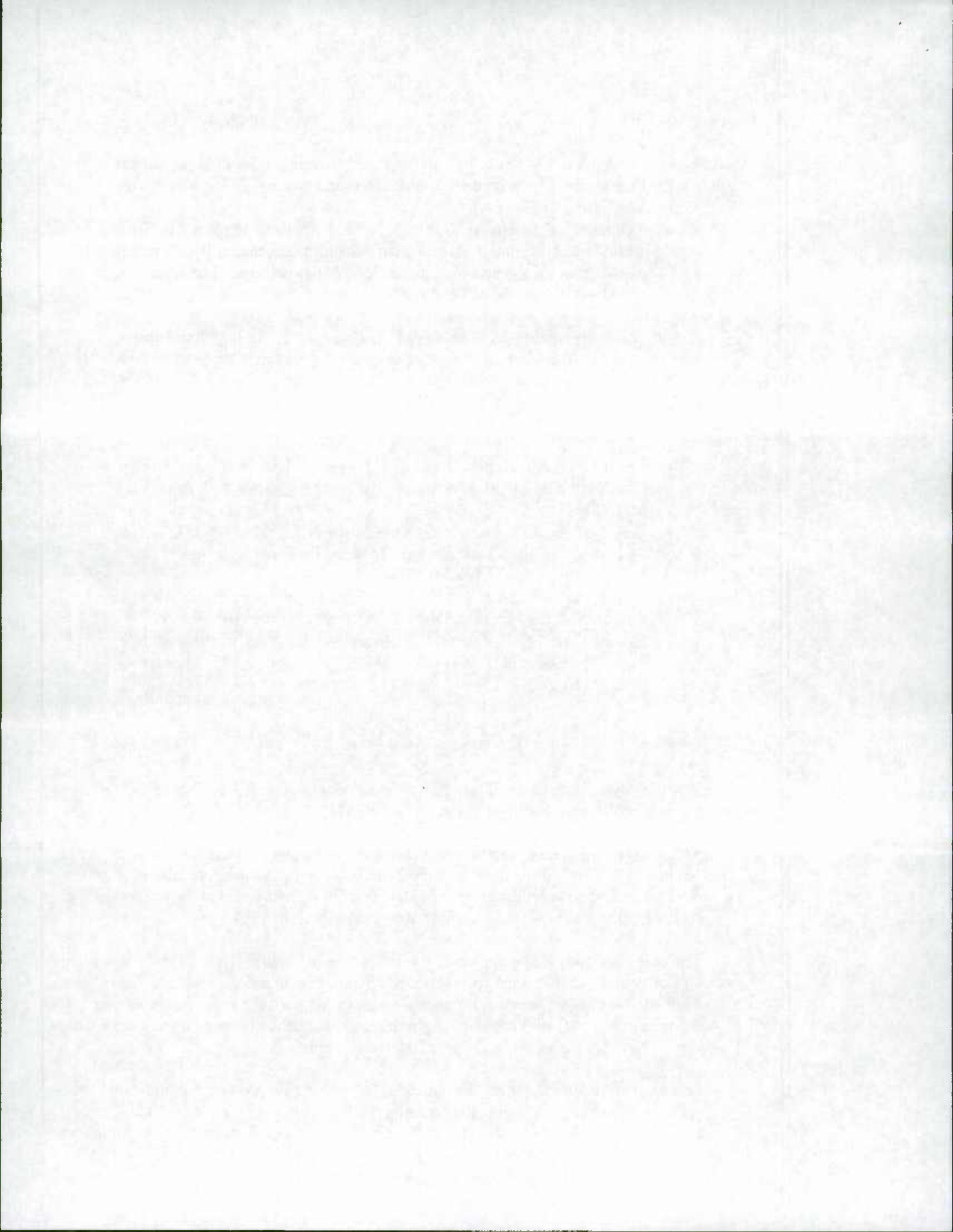


- Exhibit No. 5 – Letter of Support dated November 24, 2008 to Calvert County Board of Appeals from Lee Cummings, 1403 Pine Street, Key West, FL 33040
 - Exhibit No. 6 – Letter dated December 1, 2008 to Courtney Camp from William E. Haygood, Calvert County Health Department, RE: Letter of explanation for the house replacement – Willows Colony Lot 8, Section 1, 3319 Bayview Drive, AP#77479
2. A Staff Report prepared by Roxana Whitt, Board of Appeals Administrator, was entered into the record at the December hearing and marked Staff Exhibit No. 1.
 3. The following correspondence was entered into the record at the hearing:
 - Letter dated November 24, 2008 to Roxana Whitt from Roby Hurley, Chesapeake Bay Critical Area, 1804 West Street, Suite 100, Annapolis, MD 21401
 - Board of Appeals Review Comments for BOA Case 08-3558, dated 11/21/08, from John Knopp, Project Engineer, Calvert County Department of Public Works
 - Memo dated October 27, 2008 to Pam Helie, from Ron Babcock, Calvert Soil Conservation District, RE: Appeals Case No. 08-3558
 - E-Mail letter of objection dated November 30, 2008 to Pamela Helie from Thomas and Donna Kerr, 3525 Bayview Drive, Chesapeake Beach, MD 20732

FINDINGS OF FACT

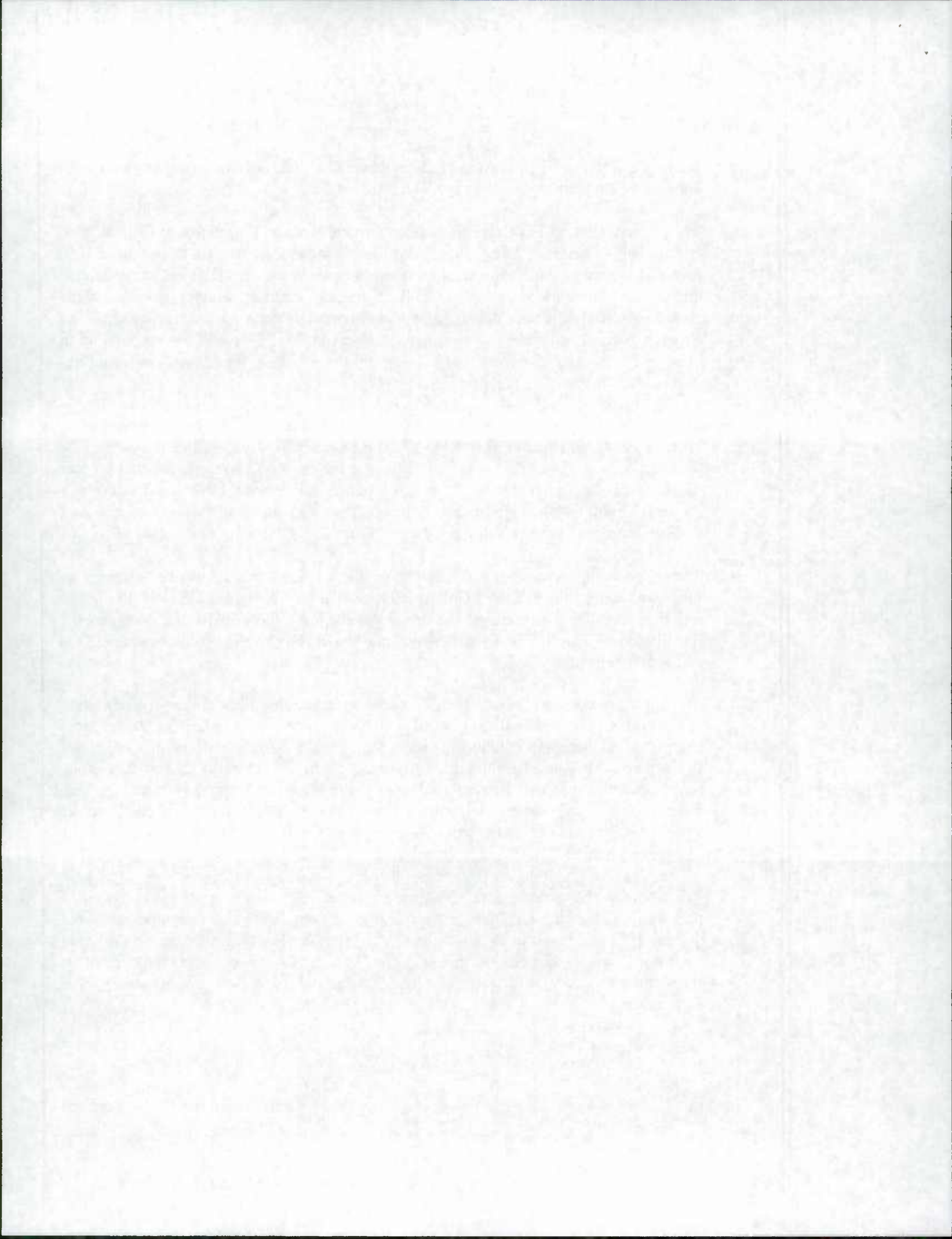
Based on the application and testimony and evidence presented at the hearing the Board makes the following Findings of Fact:

1. As shown on Applicant's Exhibit No. 2, the subject property includes Lot 8, ½ of Lot 12, and ½ of Lot 9 in Section 1 of the Willows Colony subdivision. It encompasses .55 acre, is situated on the east side of Bayview Drive, and is zoned for residential use. It is currently developed with a single-story house built in 1964.
2. The existing house is situated on Lot 8 and is uninhabitable. The driveway is located on Lots 9 and 12. The house is positioned on a moderately-sloped hillside that is grass covered. Scattered shrubs and trees are found throughout the lots. At the east end of the property, a cliff of 35 feet in height descends to the waterfront on the Chesapeake Bay. The cliff is wooded and appears relatively stable.
3. The property is zoned for residential use. The applicants propose continuation of the residential use by replacing the existing house with a house of similar size and positioning on the property. The use is the same as the use on properties throughout



the community. The right to upgrade and maintain livability of a property is a right commonly enjoyed by residents in Calvert County.

4. The property lies within Calvert County's Critical Area and is subject to Critical Area regulations. The entire buildable area of the lot is encompassed by the required 100-foot cliff setback, which limits placement of new structures. The entire lot is also encompassed by the expanded Critical Area waterfront buffer, which restricts uses and structures to those that are water-dependent or necessary for shore erosion control. The existing house lies entirely within the waterfront buffer. It would not be possible to change the shape, size or configuration of the existing house without requiring variance approval.
5. The proposed replacement house is similar in size and shape to the existing house, with an increase in size of only 125 s.f. The proposed house is 1788 s.f. in size. The existing house is 1663 s.f. The foundation for the proposed house is situated ~6 feet closer to the cliff than that of the existing house. Impervious surfaces on Lot 8 will increase slightly with the proposed development. Existing impervious surfaces total 2383 s.f.; proposed impervious surfaces with the new construction total 2411 s.f.
6. The proposed house is of reasonable size for the lot and is similar in size to houses on other lots within the Willows Colony. There will be no grading between the house and the water for the proposed construction except for footings for the deck and the installation of a well. The land between the house and the shorefront and the cliff is stable and vegetated.
7. The applicants will place 3-foot wide mulched landscaping beds around the perimeter of the house. The beds will be planted with native species and will offset the minimal increases in stormwater runoff. Additionally, rain barrels will be placed at all downspouts. Proposed sediment and erosion control is an earth dike with a stone outlet structure that will be protected with super silt fence backed with a chain link fence. The septic system includes a pre-treatment unit for denitrification to be installed prior to house construction. These factors mitigate adverse impacts to water quality and habitat.
8. The findings above demonstrate that the applicant has overcome the presumption of nonconformance with the Maryland Critical Area Legislation and that approval of the variance will not result in injury to the public interest. The Critical Area Commission does not oppose a variance on this site; however, the Commission recommended that the plan be revised to utilize the term lot coverage and that a Buffer Management Plan be provided.



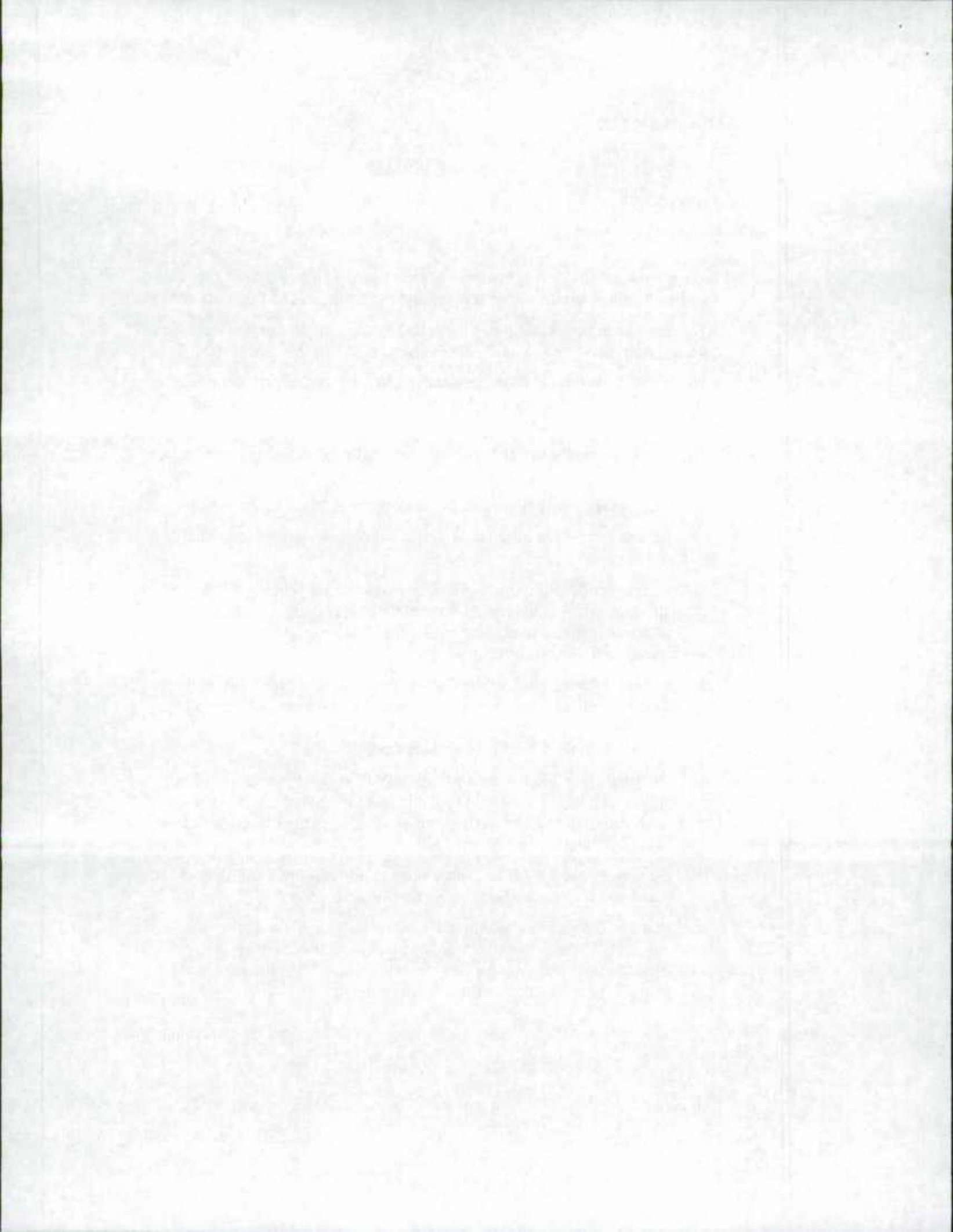
CONCLUSIONS

Based on the above Findings of Fact, the Board concludes the following (in accordance with Section 11-1.01.B of the Calvert County Zoning Ordinance):

1. The Board concludes that the development activity that is the subject of this variance request conforms with the Maryland Critical Area Legislation.
2. The Board concludes that it has the authority to grant the subject variance from the Critical Area requirements of Section 8-1 of this Ordinance.
3. The Board concludes that the applicant has overcome the presumption of nonconformance as required in Section 11-1.01.B.2 &3 of the Zoning Ordinance.
4. The Board concludes that the applicant has met each of the required variance standards as:
 - a. The variance will not result in injury to the public interest; and
 - b. the variance is the minimum adjustment necessary to afford relief from the regulations; and
 - c. special conditions or circumstances exist that are peculiar to the land or structure within Calvert County and that a literal enforcement of provisions within the County's Critical Area Program would result in unwarranted hardship; and
 - d. a literal interpretation of the Critical Area Legislation and the Calvert County Critical Area Program and related ordinances will deprive the applicant of rights commonly enjoyed by other properties in similar areas within the Critical Area of the County.
 - e. the granting of the variance would not confer upon the applicants a special privilege that would be denied by the Calvert County Critical Area Program to other lands or structures within the County's and the State's critical area programs; and
 - f. the variance request is not based upon conditions or circumstances which are the result of actions by the applicant; and
 - g. granting the variance would not adversely affect water quality and adversely impact fish, wildlife, and plant habitat within the County's Critical Area, and granting the variances would be in harmony with the general spirit and intent of the Critical Area law.

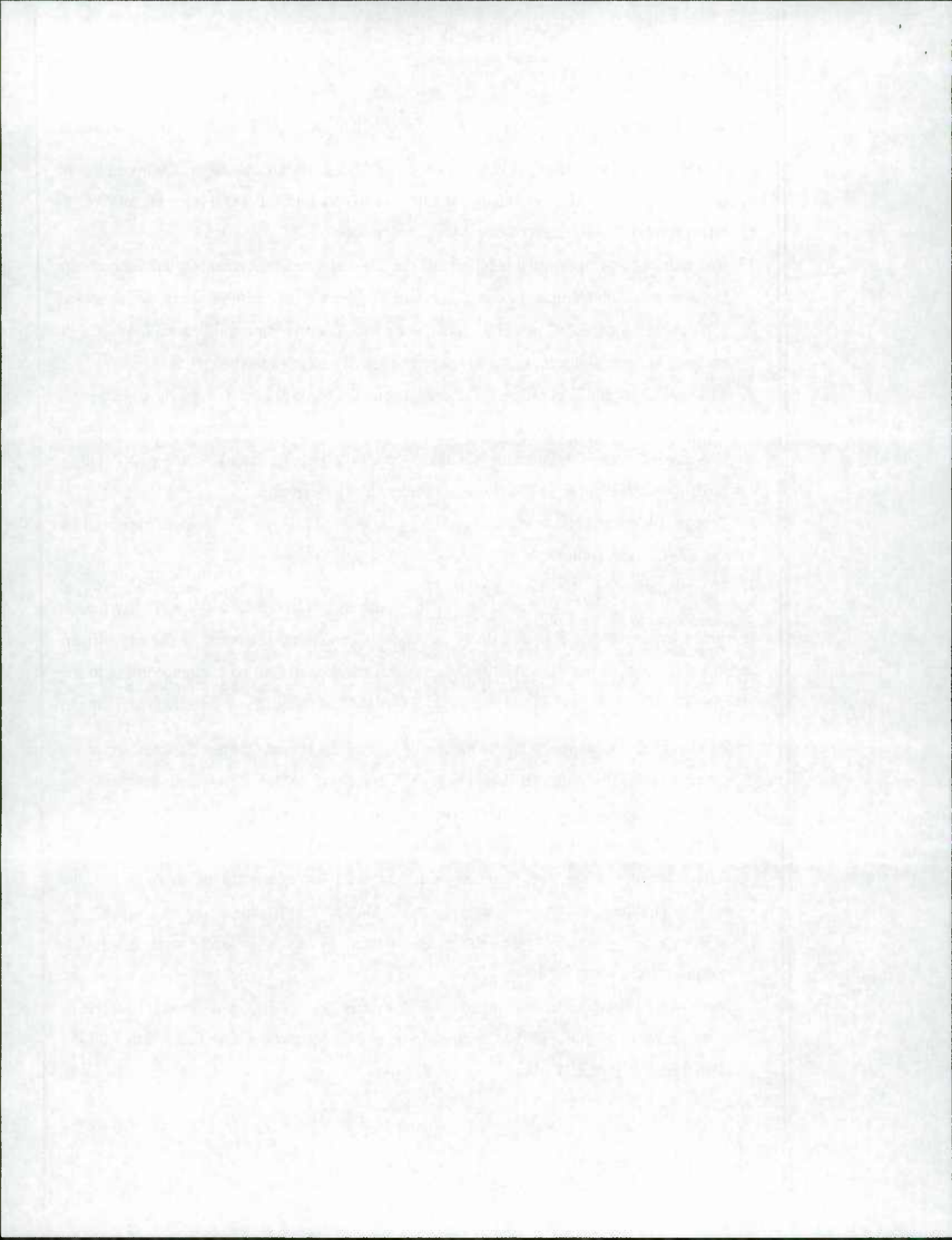
ORDER

It is hereby ordered, by a unanimous decision, that the variance in the 100' waterfront and extended buffer requirement and the variance in the cliff setback requirement for



construction of a house, deck, porch and septic as requested by Courtney T. Camp on behalf of the property owner Margaret Camp be **GRANTED SUBJECT TO THE FOLLOWING CONDITIONS:**

1. All permits and approvals required by the Calvert County Zoning Ordinance and the Department of Planning and Zoning and those required by any other departments, agencies, commissions, boards or entities, in accordance with County, State and Federal law, must be obtained before commencing the development activity approved by this Order.
2. At the time of house construction, the applicant shall install a septic system to achieve a minimum 50% reduction of nitrogen from the effluent, as recommended by Maryland Department of the Environment and approved by the Department of Planning & Zoning's Environmental Planner and the Calvert County Health Department.
3. Proposed sediment and erosion control may be revised to silt fence if approved by the Soil Conservation District.
4. The property shall be developed in phases with each phase being stabilized prior to proceeding to the next phase.
5. A phasing plan shall be submitted with the building permit.
6. Prior to work being done on site, the location of the house and the limitation of clearing shall be staked and marked.
7. The Applicant's construction representative shall meet with representatives from the Department of Planning and Zoning and the Department of Public Works to determine the construction grading and limit of clearing prior to construction start.
8. There shall be no stockpiling of excavated materials on site.
9. A foundation location plat prepared by a registered surveyor must be submitted to and approved by the Department of Planning and Zoning prior to framing.
10. A 6" washed gravel bed shall be placed under any decks or deck areas to provide stabilization.
11. Stormwater management is required. All downspouts shall discharge into rain barrels or other appropriate and approved stormwater management devices as recommended by the Department of Public Works.



12. Approval by the Zoning Enforcement officer for the Board of Appeals is required prior to issuance of a Use and occupancy Permit, or other final approval for the project, as determined by the Division of Inspections and Permits.
13. In accordance with Section 11-1.02.C.3 of the Calvert County Zoning Ordinance any violation of conditions imposed by the Board of Appeals shall be considered a violation of the Zoning Ordinance and subject to the enforcement provisions of Section 1-7.

APPEALS

In accordance with Section 6 of the Calvert County Board of Appeals Rules of Procedure, "any party to a case may apply for a reconsideration of the Board's decision no later than 15 days from the date of the Board's Order."

In accordance with Section 11-1.07 of the Calvert County Zoning Ordinance, Board of Appeals decisions may be appealed to the Circuit Court of Calvert County by (1) any person aggrieved by any decision of the Board of Appeals or (2) any taxpayer, or (3) any officer, department, board or bureau of Calvert County. Such appeal shall be taken according to the Maryland Rules as set forth in Maryland Rules, Title 7, Chapter 200, as amended from time to time, within 30 days of the Board of Appeals Order.

Entered: December 17 2008
Pamela P. Helic, Clerk



Michael J. Reber, Chairman

RECEIVED

DEC 22 2008

CRITICAL AREA COMMISSION

NEW CA 616-08

CAC

08-3558

CALVERT COUNTY BOARD OF APPEALS

150 Main St.
Prince Frederick, MD 20678
410-535-2348 * 301-855-1243
TDD 800-735-2258

(P&Z USE ONLY)
FEES: PER FEE SCHEDULE
Date Filed: _____
Fees Paid: _____
Receipt No.: _____
Rec'd By: _____
Case No.: _____

APPLICATION FOR APPEAL

NOTE: IN SUBMITTING THIS APPLICATION, YOU GRANT THE BOARD OF APPEALS PLANNER THE RIGHT OF UNSCHEDULED ENTRY ONTO THE PROPERTY FOR PURPOSES OF OBTAINING INFORMATION AND PHOTOGRAPHS FOR A STAFF REPORT.

PROPERTY DESCRIPTION:

Tax Map No. 16A Parcel _____ Block _____ Section 1 Lot 8, 1/2-9, 1/2 12
 Tax ID No. 02-033283 02-038676 Property Zoning Classification _____
 Property Address 3319 BAYVIEW DR. CHESAPEAKE BEACH, MD 20732
 Has subject property ever been before the Board of Appeals? _____ (yes) _____ (no)
 If yes, give Case No. and date: _____

PROPERTY OWNER(S):

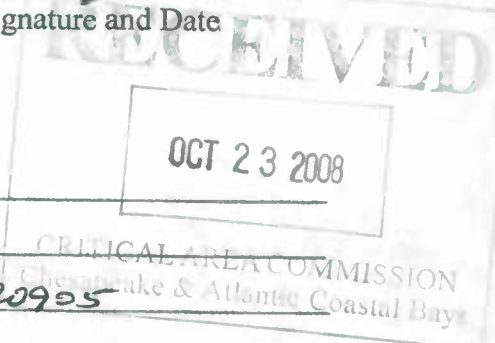
PRINTED NAME(s): MARGARET CAMP / COURTNEY CAMP
 MAILING ADDRESS: 619 HYDRA RD SEWER SPRING, MD 20902
 TELEPHONE: HOME: 301-593-1489 WORK 301-389-2248 CELL 301-509-8317
 EMAIL ADDRESS C.T.CAMP - CONSTRUCTION@VERIZON.NET

Margaret Camp _____ Courtney 10-15-08
 Owner's Signature and Date Co-Owner's Signature and Date

APPLICANT (if ^{SON} different from owner):

PRINTED NAME: COURTNEY T. CAMP
 MAILING ADDRESS: 1125 BRIGGS CHASEY RD
 TELEPHONE NUMBER: SEWER SPRING, MD 20905
 EMAIL ADDRESS _____

Margaret Camp _____ Courtney 10-15-08
 Applicant's Signature and Date Co-Applicant's Signature and Date



THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 439

LECTURE 10: QUANTUM MECHANICS OF PARTICLES IN POTENTIALS

1. THE SCHRÖDINGER EQUATION

The Schrödinger equation is the fundamental equation of quantum mechanics. It describes the time evolution of a quantum system. For a particle of mass m moving in a potential $V(\mathbf{r})$, the time-dependent Schrödinger equation is given by
$$i\hbar \frac{\partial \psi}{\partial t} = -\frac{\hbar^2}{2m} \nabla^2 \psi + V(\mathbf{r}) \psi$$

2. SEPARATION OF VARIABLES

For stationary states, the wave function can be separated into a spatial part and a time part. We assume a solution of the form
$$\psi(\mathbf{r}, t) = \phi(\mathbf{r}) e^{-iEt/\hbar}$$

Substituting this into the Schrödinger equation, we obtain the time-independent Schrödinger equation:
$$-\frac{\hbar^2}{2m} \nabla^2 \phi + V(\mathbf{r}) \phi = E \phi$$

This equation is a partial differential equation that must be solved for the spatial wave function $\phi(\mathbf{r})$ and the energy E .

3. THE PARTICLE IN A BOX

Consider a particle of mass m confined to a one-dimensional box of length L . The potential is zero inside the box and infinite outside. The wave function must satisfy the boundary conditions
$$\phi(0) = \phi(L) = 0$$

The solutions to the Schrödinger equation are
$$\phi_n(x) = \sqrt{\frac{2}{L}} \sin\left(\frac{n\pi x}{L}\right)$$

and the corresponding energy eigenvalues are
$$E_n = \frac{n^2 \pi^2 \hbar^2}{2mL^2}$$

1

PURPOSE OF APPEAL

REQUEST IS FOR: (check all items that apply)

- Variance Multiple Variances
- Revision to a Previously Approved Variance
- Special Exception
- To Extend Time Limit on a Special Exception
- Revision/Modification of a Special Exception
- Expansion or Revision of a Non-Conforming Use
- Reconsideration of Previous Decision by Board
- Re-Schedule a Case Previously Postponed
- Decision on an Alleged Error made by _____

Describe in specific detail the reason each item is requested. Building Restriction Line (BRL) variances must state which BRL is at issue (i.e., front/side/rear) and indicate distances required and proposed (Example: A variance in the front setback from 60 feet to 25 feet for construction of a garage). Impervious surface variances must state existing % impervious surface and % requested. Waterfront buffer variances must state the distance to the waterfront of the proposed structure.

THIS IS A VARIANCE REQUEST TO BUILD IN THE 100 FOOT
CLIFF BUFFER. CONSTRUCTION IS FOR A REBUILD OF A SINGLE
FAMILY DWELLING.

ALSO WE REQUEST A 4' VARIANCE TO THE 100 FT
BUFFER TO THE SHORELINE TO BUILD THE DECK/PORCH
OF THE NEW DWELLING.

DIRECTIONS TO PROPERTY FROM COURTHOUSE: (NOTE: FAILURE TO PROVIDE COMPLETE AND ACCURATE DIRECTIONS MAY RESULT IN A DELAY TO YOUR CASE)

The first part of the report
 deals with the general
 situation of the
 country and the
 progress of the
 work. It is
 followed by a
 detailed account
 of the various
 projects and
 the results
 achieved. The
 report concludes
 with a summary
 of the work
 done during the
 year.

The second part of the report
 deals with the financial
 position of the
 organization. It
 gives a detailed
 account of the
 income and
 expenditure for
 the year. It
 also shows the
 balance sheet
 and the profit
 and loss
 account. The
 report concludes
 with a summary
 of the financial
 position.

The third part of the report
 deals with the
 administrative
 work. It gives
 a detailed
 account of the
 various
 projects and
 the results
 achieved. It
 also shows the
 progress of the
 work and the
 results achieved.
 The report
 concludes with
 a summary of
 the work done
 during the year.

The fourth part of the report
 deals with the
 future plans of
 the organization.
 It gives a
 detailed account
 of the various
 projects and
 the results
 achieved. It
 also shows the
 progress of the
 work and the
 results achieved.
 The report
 concludes with
 a summary of
 the work done
 during the year.

BOARD OF APPEALS
PROJECT REFERRAL FORM

The purpose of the preliminary project review is to determine the Board of Appeals action necessary for completion of the project you propose. You must have this form completed by the appropriate Planning and Zoning staff member before filing your application for review by the Board of Appeals.

Property Owner MARGARET CAMP
Property Address 3319 BAYVIEW DR CHESAPEAKE BEACH, MD 20732
Property Location: Tax Map 16A Parcel - Lot 8 1/2 Section 1 Plat -
Project Description REMOVE + REBUILD EXISTING RESIDENTIAL HOME
Zoning _____ Permit No.(s) 48199

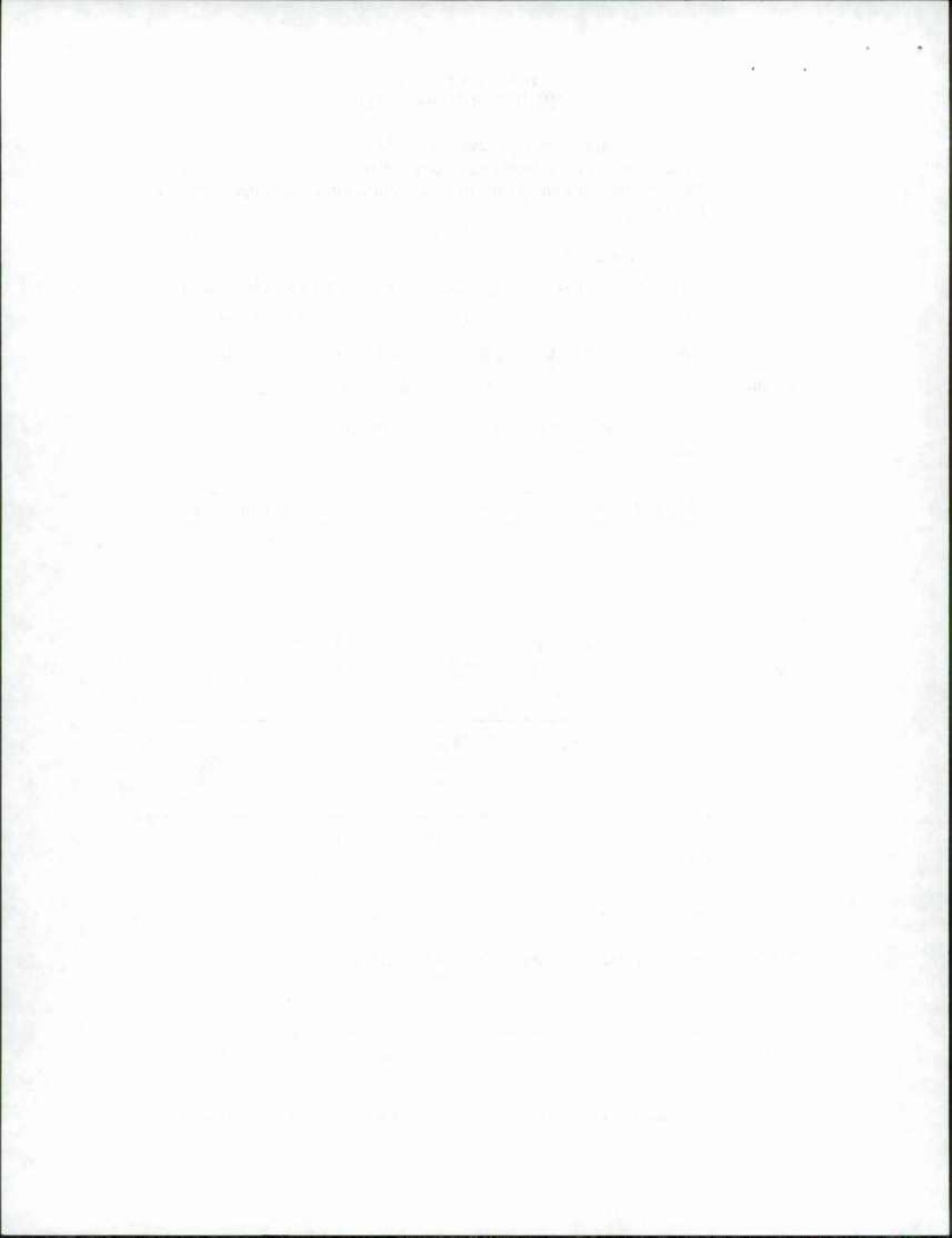
The project described above requires the following Board of Appeals actions, in accordance with the Zoning Ordinance sections noted:

Board of Appeals Action Required	Zoning Ordinance Section

This project was reviewed by the undersigned staff member:

Name Date

Please contact Roxana Whitt or Pam Helie at 410-535-2348 for Board of Appeals information.



AFFECTED PROPERTY OWNERS LIST

YOU MUST LIST THE NAMES AND ADDRESS OF ALL ADJOINING PROPERTY OWNERS AND THE OWNERS OF THOSE PROPERTIES DIRECTLY ACROSS ALL ADJACENT STREETS AND/OR RIGHTS OF WAY. NOTE: FAILURE TO CORRECTLY LIST NAMES AND ADDRESSES OF ALL AFFECTED PROPERTY OWNERS MAY RESULT IN A DELAY TO YOUR CASE.

Name: MR LEE CUMMINGS LOTS 10, 11-9, + 11-12
Address: 3315 BAY VIEW DR, 20732 CHESAPEAKE BEACH

Name: THOMAS W + DONNA C KERR LOT #13
Address: 3525 BAY VIEW DR. Chesapeake Beach 20732 AC# 02033623

Name: BARBARA JANZ JOHNSON + JACKQUENE R MC GOVERN
Address: 3521 BAY VIEW DR LOT #14 + LOT #7
CHESAPEAKE BEACH 20732

Name: LAMONT LEWIS + SHARYL REESE
Address: 3604 BAY VIEW DR LOT 29
CHESAPEAKE BEACH 20732

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

IF YOUR PROPERTY ADJOINS A PRIVATELY OWNED ROAD, YOU MUST LIST THE NAME AND ADDRESS OF THE OWNER BELOW:

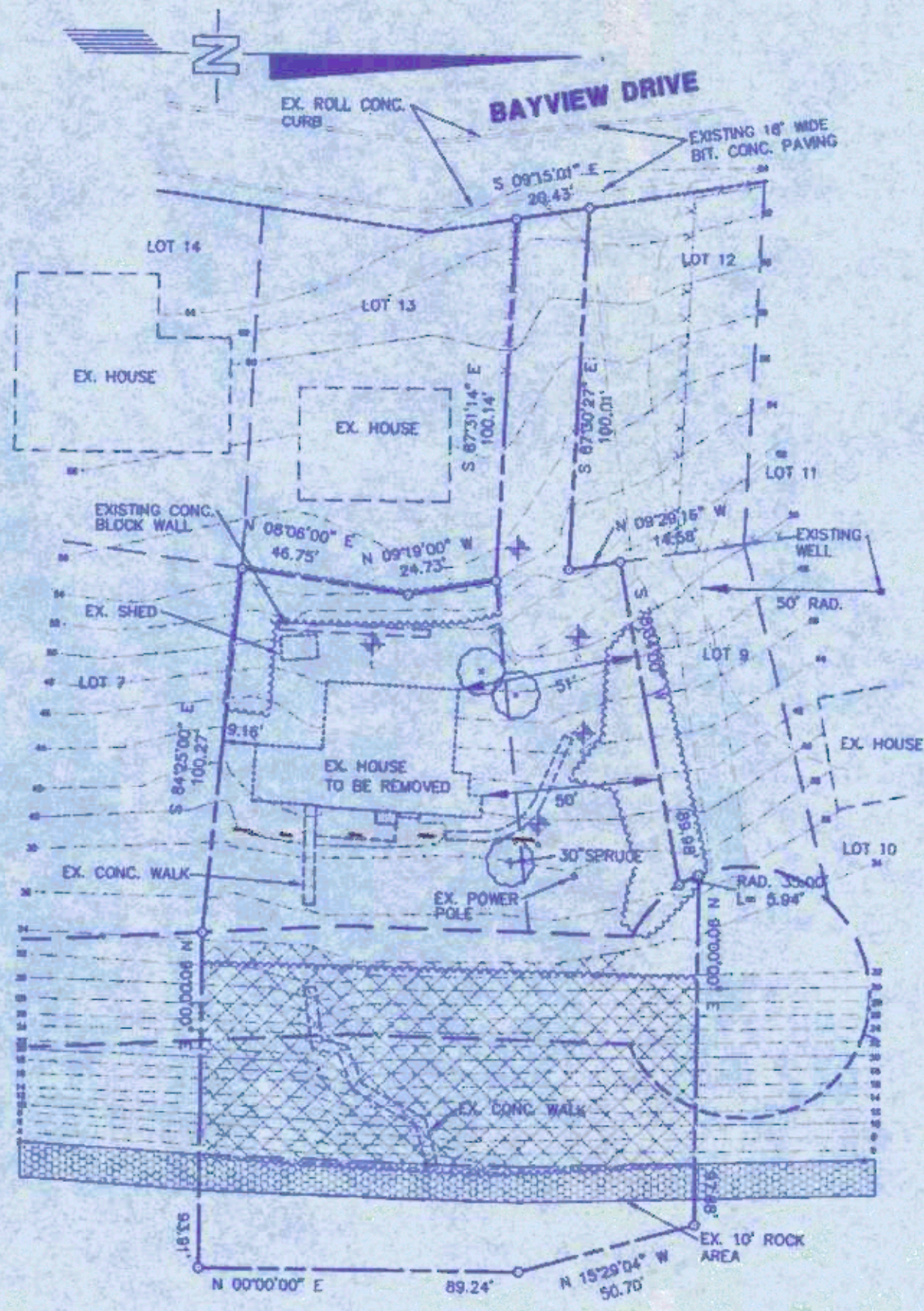
Name: _____
Address: _____

The first part of the paper is devoted to a discussion of the general theory of the subject. It is shown that the theory is based on the principle of least action, and that the equations of motion can be derived from this principle. The second part of the paper is devoted to a discussion of the special case of the theory, and the third part to a discussion of the applications of the theory.

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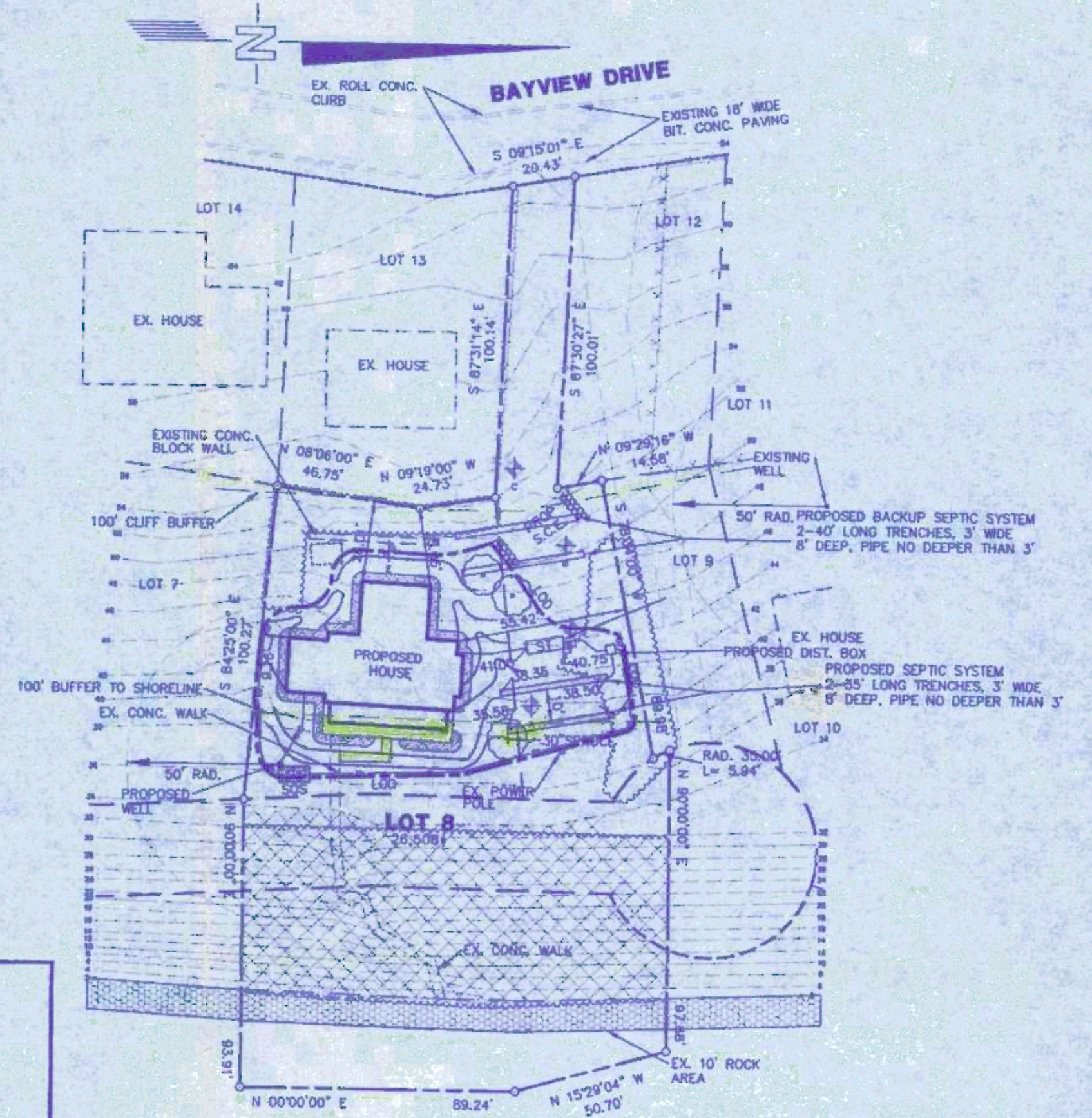
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THE UNIVERSITY OF CHICAGO



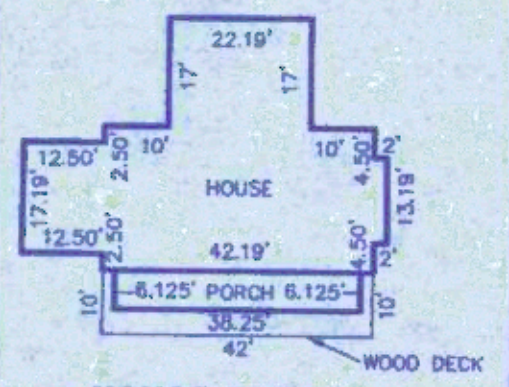
CHESAPEAKE BAY

EXISTING CONDITIONS



CHESAPEAKE BAY

PROPOSED CONDITIONS



HOUSE DETAIL
SCALE: 1"=30'

INFORMATION STATEMENT

EX. HOUSE (1,863 SQUARE FEET) TO BE REMOVED
 EX. GRAVEL DRIVEWAY (414 SQUARE FEET) TO REMAIN
 EX. SHED (86 SQUARE FEET) TO REMAIN
 EX. CONCRETE PATIO (180 SQUARE FEET) TO BE REMOVED
 EX. CONCRETE WALK (80 SQUARE FEET) TO REMAIN
 TOTAL 2,383 SQUARE FEET (1,823 SQUARE FEET TO BE REMOVED) = 560 SQUARE FEET REMAINING
 PROPOSED HOUSE: 1,788 SQUARE FEET
 CONCRETE WALK: 63 SQUARE FEET
 TOTAL: 1,851 SQUARE FEET

TOTAL EXISTING REMAINING AND PROPOSED IMPERVIOUS: 2,411 SQUARE FEET

FIRST FLOOR ELEVATION: 50.00
 BASEMENT ELEVATION: 41.00

LOT AREA: 26,508 SQ. FT.
 LOT AREA ABOVE M.H.W.: 24,073 SQUARE FEET
 DISTURBED AREA: 4,904 SQUARE FEET
 EXISTING IMPERVIOUS AREA: 2,383 SQ. FT. (8.9.90%)
 PROPOSED IMPERVIOUS AREA: 1,851 SQUARE FEET (7.69%)
 FORESTED AREA: 9,521 SQ. FT. (39.55%)
 FORESTED AREA TBR: 400 SQUARE FEET

OWNER: MARGARET CAMP (TRUSTEE)
 DEED: KPS 2664/321
 TAX I.D.#: 02-038678

THIS LOT IS IN THE CRITICAL AREA.

CONTACT "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY WORK.

DECKS AND OTHER STRUCTURES NOT SHOWN DO NOT HAVE ZONING APPROVAL FOR CONSTRUCTION.

PROPOSED DISTURBANCE IS LESS THAN 5,000 SQUARE FEET AND THEREFORE EXEMPT FROM STORMWATER MANAGEMENT.

THE ISSUANCE OF COUNTY PERMITS IS A LOCAL PROCESS AND DOES NOT IMPLY THE APPLICANT HAS MET STATE & FEDERAL REQUIREMENTS FOR WETLANDS UNDER COMAR; THE FEDERAL WATER POLLUTION CONTROL ACT; OR THE RIVERS AND HARBORS ACT.

THIS PLAN WAS PREPARED WITHOUT BENEFIT OF A TITLE REPORT WHICH MAY REVEAL ADDITIONAL CONVEYANCES, EASEMENTS, RIGHTS-OF-WAY OR BUILDING RESTRICTION LINES NOT SHOWN.

THIS LOT IS ENTIRELY COVERED BY SLOPES OF 15% OR GREATER.

THIS LOT IS ENTIRELY COVERED BY THE 100' SHORELINE BUFFER AND EXPANDED BUFFER.

NOTES

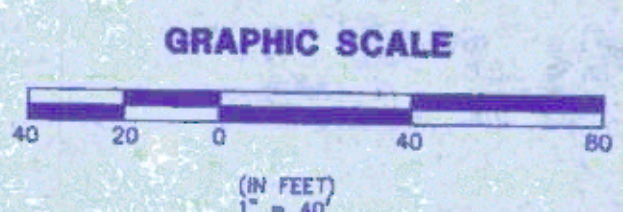
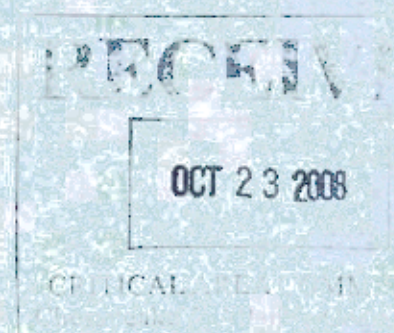
1. THERE SHALL BE NO STOCKPILING OF EXCAVATED MATERIAL ON SITE.
2. A 6" WASHED GRAVEL BED SHALL BE PLACED UNDER ANY DECKS OR DECK AREAS TO PROVIDE STABILIZATION.
3. ALL DISTURBED SLOPES OF 15% OR GREATER SHALL BE STABILIZED WITH EROSION CONTROL MATTING AND NATIVE PLANTINGS.
4. ALL DOWNSPOUTS SHALL DISCHARGE INTO RAIN BARRELS AS SHOWN.

HEALTH DEPARTMENT NOTES

1. THE PROPOSED PRE-TREATMENT SYSTEM/SEPTIC TANK IS TO BE A MULTIPLE COMPARTMENT, SINCE TANK (ALL IN ONE) UNIT.
2. THE PROPOSED PRE-TREATMENT SYSTEM/SEPTIC TANK, IS TO BE SELECTED, REVIEWED AND APPROVED BY THE CALVERT COUNTY HEALTH DEPARTMENT PRIOR TO PURCHASE AND INSTALLATION.
3. THE PROPOSED PRE-TREATMENT SYSTEM/SEPTIC TANK, IS TO BE INSTALLED PRIOR TO HOUSE CONSTRUCTION.
4. THE PROPOSED HOUSE, WELL, PRE-TREATMENT SYSTEM/SEPTIC TANK, AND SEPTIC TRENCH, JUST BE FIELD STAKED BY A LICENSED SURVEYOR PRIOR TO INSTALLATION.

LEGEND

- 20 — Existing Grade
- 20 — Proposed Grade
- LOD — Limit of Disturbance
- SCE — Stabilized Construction Entrance
- + Percolation Test
- Existing Tree Line
- 100' Shoreline Buffer
- Stone Outlet Structure
- Earth Dike
- 3' Wide 6" deep mulch bed with native plantings 3'-5' on center



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. 23380, Expiration date 8-19-10.



M.A.F. & ASSOCIATES, LLC

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SHEET 1 of 1

SITE DEVELOPMENT PLAN

CAMP PROPERTY
 LOT 8
 SINGLE FAMILY DWELLING

2nd DISTRICT
 SCALE: AS SHOWN
 TAX MAP 16A
 AP# 77479

CALVERT COUNTY, MARYLAND
 SEPTEMBER, 2008