SA 691-05 Rivers Edge Site Plan

MSA-S-1829-5155

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Robert L. Ehrlich, Jr. Governor

Michael S. Steele Lt. Governor



Martin G. Madden Chairman

> Ren Serey Executive Director

STATE OF MARYLAND CRITICAL AREA COMMISSION CHESAPEAKE AND ATLANTIC COASTAL BAYS

October 30, 2006

1804 West Street, Suite 100, Annapolis, Maryland 21401 (410) 260-3460 Fax: (410) 974-5338 www.dnr.state.md.us/criticalarea/

Jimmy Sharp www.dnr.state.md.us/criticalarea/ Chesapeake Bay Critical Area Planner Wicomico County Department of Planning, Zoning and Community Development P.O. Box 870 Salisbury, Maryland 21803-0870

RE: Rivers Edge Subdivision

Dear Mr. Sharp:

I have reviewed the Rivers Edge Easement and Planting Plan. The developer of Rivers Edge has proposed this Easement and Planting plan to provide offsite mitigation for compliance with the required 10% pollutant reduction that cannot be met onsite. My comments are substantially the same as Edgar A. Baker, Jr., County Attorney for Wicomico County and are as follows.

- 1) The Deed of Easement should identify Robert S. Bartoshesky and William F. D'Alonzo as the Grantors. Currently, only Robert S. Bartoshesky is identified, yet both are listed as owners of the parcel.
- 2) The second WHEREAS paragraph incorrectly identifies the Grantors as the party which has to comply with the Salisbury Critical Area law. The owners/developers of the Rivers Edge parcel are the actual party that is required to comply with this law. Please rewrite this paragraph to identify the correct party.

Please have the applicant incorporate any other comments made by Edgar A. Baker, Jr. that I have not addressed. Please feel free to call me at 410-260-3481 if you have any questions. Please forward a copy of the revised Deed of Easement and Planting Plan to our office for final review.

Sincerely Jennifer/B. Lester

Natural Resources Planner

Cc: Matthew Hedger Bob Simkins, P.E.

Lester, Jennifer

From:	Lester, Jennifer	
Sent:	Thursday, October 05, 2006 4:20 PM	

To: 'MDise@oag.state.md.us'

Subject: FW: Rivers Edge Easement

Marianne,

Below are Ed Baker's comments on the easement I sent you earlier today.

Jennifer

Jennifer Lester Natural Resources Planner State of Maryland Critical Area Commission Chesapeake & Atlantic Coastal Bays 410-260-3481 fax 410-974-5338 -----Original Message-----From: Frank McKenzie [mailto:fmckenzie@wicomicocounty.org] Sent: Thursday, October 05, 2006 4:10 PM To: Lester, Jennifer Cc: Matthew R. Hedger Subject: FW: Rivers Edge Easement

Hi Jennifer,

Below are Ed Bakers comments received today re the Rivers Edge Off site easement. Could you please forward to Marianne for her consideration.

Thanks

frank

From: Ed Baker [mailto:ebaker@wicomico.org] Sent: Thursday, October 05, 2006 1:57 PM To: Jimmy Sharp Cc: Frank McKenzie Subject: Rivers Edge Easement

MEMORANDUM

TO: Jimmy Sharp, Environmental/Technical Services Planner

FROM: Edgar A. Baker, Jr., County Attorney

DATE: October 4, 2006

SUBJECT: Rivers Edge Easement

I have had the opportunity to review the long-term management agreement for the mitigation easement required by the 10 percent pollution reduction requirements for the development known as "Residences at Rivers Edge," located in the city of Salisbury.

I would offer the following suggestions. First, is the document that identifies the grantor as Robert S. Bartoshesky, however, according to the plat, Mr. Bartoshesky and William F. D'Alonzo co-own the property. Therefore, the Deed of Easement should be from both of those individuals.

Under the recitals section of the document it indicates in the second whereas paragraph that the grantors have elected to engage in regulated activity. It is my understanding that the developers of the residences at Rivers Edge are not identical to the grantors of the easement area, and therefore, this paragraph should be amended and another "whereas" paragraph should be inserted to clarify the property in which the regulated activity is to occur and the connection to the offsite mitigation area.

In the third whereas paragraph, the term "Final Chesapeake Bay Critical Area Easement Plan," should be changed to coincide with the title of the document which was to be recorded - "Chesapeake Bay Critical Area Easement Planting Plan." It is my understanding that this single document contains the entire "plan."

Under the grant and agreements section paragraph 2A the next to the last line, the word without should be "with the."

Under the forest conservation law, when they require forestation, the developer also executes a maintenance agreement ensuring the continuance of planting for a two-year term. If this same requirement or a similar requirement is to be imposed, it should be included in this document. There appears to be no note on the plat requiring maintenance for any period of time.

Finally, in Exhibit A, the reference to the plat should be identical to the titling on the plat. The plat provided to this office by Frank, dated September 14, 2006 has the title Chesapeake Bay Critical Area Easement Planting Plan. Please ensure that the titles are identical.

The last phrase beginning "Intended to be recorded among the Land Records of Wicomico County, Maryland," should be followed by the phrase "simultaneously herewith."

If you have any questions, please do not hesitate to call.

EAB/kw

Edgar A. Baker, Jr County Attorney Wicomico County, Md Phone: 410-742-8176 Fax: 410-742-3117 Email: ebaker@wicomico.org

This email message from the Office of the County Attorney for Wicomico County, Maryland is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message.

LONG TERM MANAGEMENT AGREEMENT DEED OF CHESAPEAKE BAY CRITICAL AREA EASEMENT WICOMICO COUNTY, MARYLAND

THIS DEED OF CHESAPEAKE BAY CRITICAL AREA EASEMENT is made this day of ______, 2006, by and between <u>Robert S. Bartoshesky</u> hereinafter called the "Grantors", and WICOMICO COUNTY, MARYLAND, a body politic and corporate of the State of Maryland, hereinafter called "County".

RECITALS

WHEREAS, Grantor(s) are the owners of a certain parcel of land situate in the <u>Barren</u> <u>Creek</u> Election District of Wicomico County, Maryland, which was conveyed to Grantors by deed dated <u>September 2, 1999</u>, and recorded among the Land Records of Wicomico County, Maryland, in Liber <u>1703</u>, Folio <u>721</u>, et seq.; and

WHEREAS, Grantor(s) have elected to engage in a regulated activity, as defined by Section 12.20.190(D)(4) of the Salisbury, Maryland Municipal Code, Title 12, Streets, Sidewalks and Public Places, and have applied to the City of Salisbury and Wicomico County Department of Planning, Zoning and Community Development for approval of the regulated activity; and

WHEREAS, as a condition of the aforesaid approval, Grantors have submitted and the County has approved Final Chesapeake Bay Critical Area Easement Plan (the "Plan"), which sets forth the requirements for the 10% Rule in the Chesapeake Bay Critical Area in an area located on the aforesaid property and designated on the approved final subdivision plat, site development plan, or grading permit, as the Chesapeake Bay Critical Area Easement Area, and more particularly described on Exhibit A, attached hereto and made a part hereof. Said Plan is incorporated into and made a part of this Deed of Easement by reference; and

WHEREAS, the Final Chesapeake Bay Critical Area Easement Plan, and Section 12.20.190(D)(4) of the Salisbury, Maryland Municipal Code, Title 12, Streets, Sidewalks and Public Places, require the establishment of a mitigation easement in, on, over and through Chesapeake Bay Critical Area Easement Area, to ensure the permanent protection, management and inspection of said area.

GRANT AND AGREEMENTS

, THEREFORE, for and in consideration of the foregoing, the covenants and promises contained herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

1. Grantor(s) do hereby grant and convey unto Wicomico County, Maryland, a body politic and corporate of the State of Maryland, its successors and assigns, a Chesapeake Bay Critical Area management and access easement, of the nature and character and to the extent hereinafter set forth, in, on, over, through and across the aforesaid Chesapeake Bay Critical Area easement (as described in Exhibit A). Grantor(s) further establish, create and declare the restrictions herein set forth in favor of and for the benefit of the County, its successors and assigns.

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CRITICAL AREA COMMISSION

2. Grantor(s) covenant with the County as follows:

A. To refrain from destroying, damaging or removing anything of nature which grows there now, or hereafter except (i) as provided herein, (ii) with the approval of the County as to manner, form, extent and any other aspects of the removal whatsoever, or (iii) as otherwise provided in the final Chesapeake Bay Critical Area easement plan approved under Section 12.20.190(D)(4) of the Salisbury, Maryland Municipal Code and Chapter 125 of the Wicomico County Code; it being the express intention of the parties hereto that Grantor(s) shall comply with the final Chesapeake Bay Critical Area easement plan approved under Section 12.20.190(D)(4) of the Salisbury, Maryland Municipal Code and Chapter 125 of the Wicomico County Code; it being the express intention of the parties hereto that Grantor(s) shall comply with the final Chesapeake Bay Critical Area easement plan approved under Section 12.20.190(D)(4) of the Salisbury, Maryland Municipal Code and Chapter 125 of the Wicomico County Code and that the easement area shall be preserved in a manner which protects the forest thereon, existing or to be established without approval of the County as to manner, form, extent and any other aspects of the removal whatsoever.

B. All areas designated as "Chesapeake Bay Critical Area Easement Area" on the final easement plan designated above, shall be maintained in perpetuity in accordance with the approved Easement plan.

3. Grantor(s) hereby relinquish the right to use or develop the Chesapeake Bay Critical Area easement area for any purpose whatsoever, except for the following uses:

A. Planting, maintenance and protection of the Chesapeake Bay Critical Area easement area in accordance with the terms and conditions of the Plan;

B. Passive recreational activities which are consistent with and do not interfere with Chapter 125 of the Wicomico County Code and management or cause harm to forest management resources, including walking, hiking, and bird watching;

C. Wicomico County Chesapeake Bay Critical Area Program and management practices, including harvesting of trees in accordance with a written agreement with the State Department of Natural Resources; provided suitable provisions are made for the replacement of harvested trees.

4. Grantor(s) may engage in limited clearing of the forest understory, such as may be necessary to allow a walking or hiking trail for foot traffic only; and may allow the removal of dead or dying trees, and obnoxious plants or weeds. However, prior authorization from the City of Salisbury and Wicomico County Department of Planning, Zoning and Community Development is required and a Chesapeake Bay Critical Area Certificate of Compliance must be obtained.

5. All rights reserved by or not prohibited to Grantor(s) shall be exercised so as to prevent or minimize damage to the forest and trees, streams and water quality, plant and wildlife habitats, and the natural topographic character of the easement area.

6. The County, or its duly authorized representatives shall have the right, at reasonable hours, to enter the Chesapeake Bay Critical Area easement area for the sole purpose of inspecting the easement area to determine whether the Grantor(s) are complying with the terms, covenants, conditions, limitations and restrictions herein contained.

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7. No failure on the part of the County to enforce any covenant or provision hereof shall discharge or invalidate such covenant or any other covenant, condition, or provision hereof or affect the right of the County to enforce the same in the event of a subsequent breach or default.

8. Upon any breach of the terms of this Deed of Easement the County may exercise any or all of the remedies provided in Chapter 125 of the Wicomico County Code including, but not limited to the institution of an action in equity to enjoin, by temporary or permanent injunction, such breach; to require the restoration of the forest to its condition prior to such breach, and such other legal action as may be necessary to ensure compliance with this Deed of Easement and the covenants, conditions, limitations and restrictions herein contained. If Grantor, is found to have breached any of its obligations under this Deed of Easement, Grantor shall reimburse the County for any costs or expenses incurred, including consultant's fees, court costs, reasonable attorney's fees, and any administrative and overhead costs.

9. If the Grantor has any questions concerning the easement, covenants, conditions, limitations or restrictions herein contained with respect to any particular use of the said easement property, Grantor may submit a written request to the County for consideration and approval of such use; and County may relax any requirement hereof or render an interpretation hereof.

10. This Deed of Easement does not grant the public, in general, any right of access or any right to the use of the easement area, or any other portion of the property. This easement extends only to those areas designated as the Chesapeake Bay Critical Area easement area and necessary access thereto.

11. The Grantor(s) further covenant and agree that the easements, rights of way, covenants and agreements contained herein shall run with the Chesapeake Bay Critical Area easement area and all portions thereof and shall bind the Grantor(s) and their heirs, personal representatives, successors and assigns and shall bind all present and subsequent owners of the property identified herein.

12. Grantor(s) agree to make specific reference to this Deed of Easement in a separate paragraph of any subsequent sales contract, mortgage, deed, lease or other legal instrument by which any interest in the Chesapeake Bay Critical Area easement area is conveyed.

13. This Deed of Easement shall be binding upon the personal representatives, heirs, successors and assigns of the parties hereto.

14. The undersigned lienholders, if any, do hereby join in this conveyance for the purpose of granting and conveying the above stated easement as legal title holder of the herein described property.

TO HAVE AND TO HOLD the said easement unto Wicomico County, Maryland, a body politic and corporate of the State of Maryland, its successors and assigns, forever, for the uses and purposes hereinbefore described. AND the said Grantors covenant that they have not done nor suffered to be done anything to encumber the property, easement, and or rights hereby conveyed and that they will execute such other and further assurances of the same as may be necessary and requisite.

AS WITNESS our hands and seals the day and year first above written.

WITNESS:

Grantor

Grantor

ATTEST:

WICOMICO COUNTY, MARYLAND

Anthony Sarbanes, President, Grantee

STATE OF MARYLAND, WICOMICO COUNTY TO WIT:

I HEREBY CERTIFY that on this ______ day of ______, 2006, before me, the subscriber, a Notary Public, in and for the state and county aforesaid, personally appeared , _______ of said ______, and as such ______, (s)he made oath in due form of law that the matters and facts hereinbefore set forth are true and correct to the best of his/her knowledge, information and belief.

AS WITNESS my hand and Notarial Seal.

4

Notary Public My Commission Expires:

STATE OF MARYLAND, WICOMICO COUNTY TO WIT:

I HEREBY CERTIFY that on this _____ day of _____, 2006, before me, the subscriber, a Notary Public, in and for the state and county aforesaid, personally appeared Anthony Sarbanes, President of the Wicomico County Council, and as such President, he made oath in due form of law that the matters and facts hereinbefore set forth are true and correct to the best of his knowledge, information and belief.

AS WITNESS my hand and Notarial Seal.

Notary Public My Commission Expires:

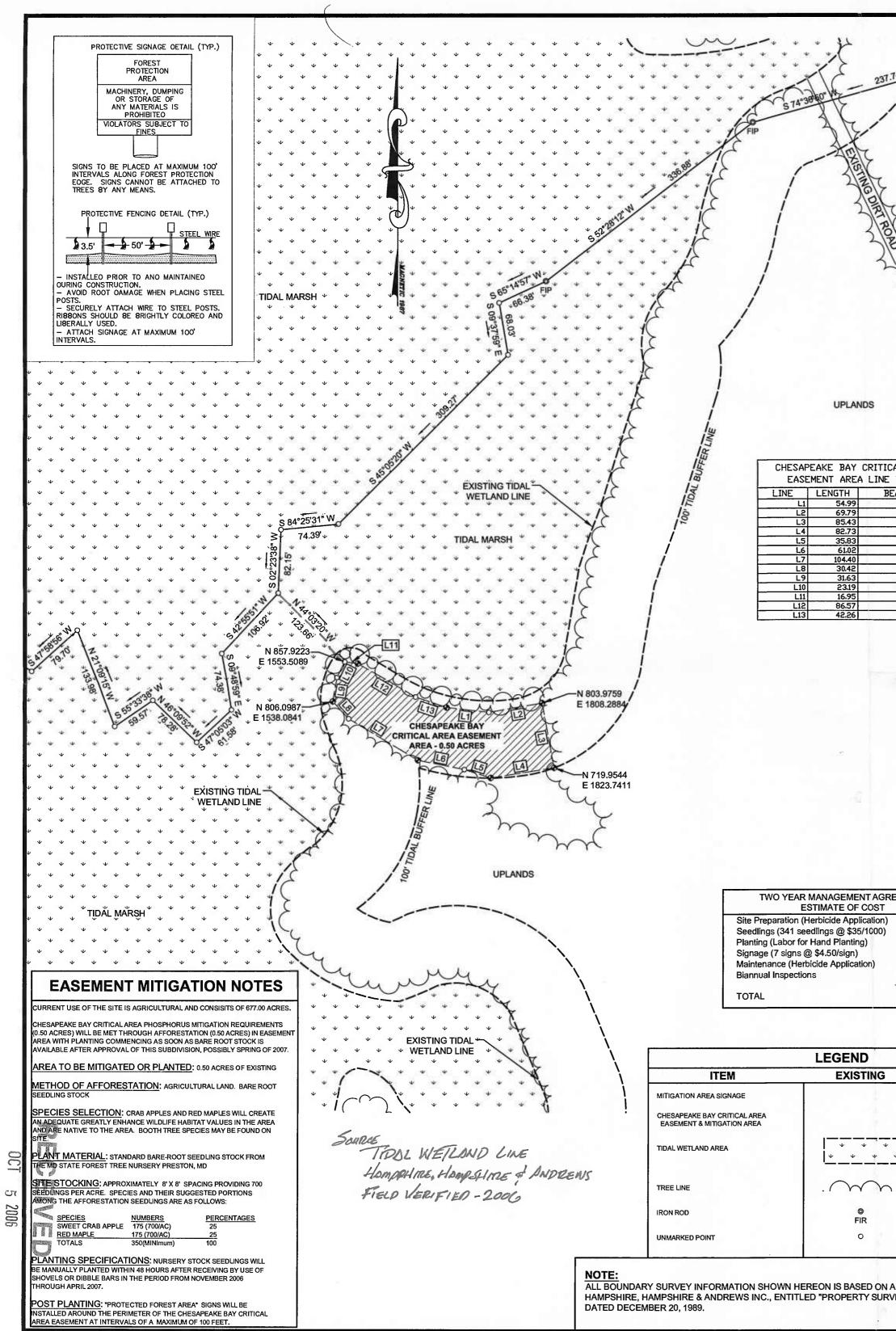
APPROVED FOR LEGAL SUFFICIENCY:

Edgar A. Baker, Jr., County Attorney

Exhibit A

Chesapeake Bay Critical Area Easement Area

The Chesapeake Bay Critical Area Easement Area shall be all that tract or parcel of land lying and being in the <u>Barren Creek</u> Election District of Wicomico County and State of Maryland, and being more particularly described as that area designated "Chesapeake Bay Critical Area Easement Area" on a plat entitled "<u>Chesapeake Bay Critical Area Easement for the Residence at</u> <u>Rivers Edge</u>", made by <u>Becker Morgan Group, Inc.</u>, dated <u>September 15, 2006</u>, and intended to be recorded among the Land Records of Wicomico County, Maryland immediately following the execution of this Agreement.



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CRITICAL AREA COMMISSION

CAL AREA TABLE EARING SR316/09/E	ADC THE MAP PEOPLE PERMITTED USE NUMBER 20406116 VICINITY MAP - NOT TO SCALE SITE DATA 1. OWNER OF RECORD: SITE DATA 1. OWNER OF RECORD: SITE DATA 2. SURVEYOR: HAMPSHIRE, HAMPSHIRE & ANDREWS INC. 220 NORTH DIVISION STREET SALISBURY, MARYLAND 21804-2548 4. ZONING CLASSIFICATION: 4. ZONING CLASSIFICATION: 5. DEED SUMMARY: 5. DEED SUMMARY: 5. DIEED SUMMARY:	BECKER MORGAN G R O U P ARCHITECTURE ENGINEERING ARCHITECTURE ENGINEERING MACHITECTURE BNGINEERING MOVER, DE 19904 Ph. 302.734.7950 Fax 302.838.2427 WWM.beckermorgan.com
S83*16'09'E N80*01'08'E S10*25'16'E S80*54'43'W	PANEL # 240083 0150 A, DATED	Wer's Coge
N72*12'27'W N78*36'22'W N58*58'52'W	FEBRUARY 15, 1979.	
N42*32'35'W N08*29'55'E N27*37'28'E S82*41'31'E	1. SITE AREA 677.00 ACRES 2. UPLAND AREA 407.00 ACRES	RESIDENCES AT
\$59*26'13'E \$59*26'13'E \$71*29'05'E	 THIS PARCEL MAY CONTAIN HYDRIC SOILD WHICH MAY BE AN INDICATOR OF NON-TIDAL WETLANDS. THIS PROPERTY SHOWN IS ON WICOMICO COUNTY SOIL SURVEY SHEET 14. 	RIVERS EDGE
	 6. THIS PROPERTY BORDERS ON THE WEST BY DIVIDING CREEK A PERENNIAL STREAM. 7. NO CULTURAL FEATURES LOCATED ON SITE. 8. THE SITE IS LOCATED WITHIN A RESOURCE CONSERVATION AREA OF THE CHESAPEAKE BAY 	
	CRITICAL AREA AND MUST OBTAIN A CHESAPEAKE BAY CRITICAL AREA CERTIFICATE.OF COMPLIANCE BEFORE ANY DISTURBANCE OF LAND. 9. SITE IS LOCATED WITHIN THE NANTICOKE WATERSHED (02-13-03) AND THE NANTICOKE RIVER SUB-WATERSHED (02-13-03-05).	670 FITZWATER STREET SALISBURY WICOMICO COUNTY, MARYLAND
	CHESAPEAKE BAY CRITICAL AREA EASEMENT NOTES	SHEET TITLE
	 THE CHESAPEAKE BAY CRITICAL AREA EASEMENT AREA (0.50 ACRES) IS TO BE USED FOR THE PROJECT ENTITLED "RESIDENCES AT RIVERS EDGE" (TAX MAP 106, PARCEL 1109, LOT 4, BLOCK 2, CITY OF SALISBURY PROPERTY MAP 65) REQUIREMENTS ESTABLISHED IN SECTION 12.20.190 (D) (4) OF THE CITY OF SALISBURY, MARYLAND MAUNICAL CODE. THIS SITE IS SUBJECT TO THE WICOMICO COUNTY CHESAPEAKE BAY CRITICAL AREA PROGRAM. A LONG TERM MANAGEMENT AGREEMENT, DEED OF CHESAPEAKE BAY CRITICAL AREA EASEMENT WICOMICO COUNTY, MARYLAND WILL BE RECORDED SIMULTANEOUSLY WITH THIS PLAT IN THE LAND RECORDS OF WICOMICO COUNTY, MARYLAND. NO MACHINERY, VEHICLES, OR EXCESS PEDESTRIAN TRAFFIC SHALL BE ALLOWED IN THE PROTECTED AREAS. ALL AREAS DESIGNATED AS "CHESAPEAKE BAY CRITICAL AREA EASEMENT AREA" ON THE PLAT HEREON, SHALL BE MAINTAINED IN PERPETUITY. 	CHESAPEAKE BAY CRITICAL AREA EASEMENT PLANTING PLAN
	OWNER OF CBCA EASEMENT EASEMENT CERTIFICATION	
\$100 \$12 \$60 \$32 \$100	I HEREBY CERTIFY THAT I OWN THE RIGHTS TO THE CHESAPEAKE BAY CRITICAL AREA EASEMENT AS SHOWN ON THIS PLAT AND HEREBY AGREE TO THE TERMS AND CONDITIONS HEREON.	SCALE : 1" = 100'
\$120 \$424	AUTHORIZED REPRESENTATIVE (SIGNATURE) DATE	
· · · · · · · · · · · · · · · · · · ·	PRINTED NAME TITLE	ISSUE BLOCK
	PHONE NUMBER	
PROPOSED	OWNERS CERTIFICATION	
	I HEREBY CERTIFY THAT I AM THE LEGAL OWNER OF PROPERTY AS SHOWN ON THIS PLAT AND HEREBY AGREE TO THE SUBDIVIDING THEREOF AS SHOWN HEREON.	
	ROBERT S. BARTOSHESKY DATE	
Ŋ.	SURVEYORS CERTIFICATION	MARK DATE DESCRIPTION LAYER STATE: CBCA PLANTING PLAN 2003223.01
	I, VAUGHN A. WIMBROW, HEREBY CERTIFY THAT I AM A REGISTERED PROPERTY LINE SURVEYOR IN THE	DATE: 09/14/06 SCALE: 1" = 100'
	STATE OF MARYLAND, AND THAT THE INFORMATION SHOWN HEREON AS IT RELATES TO THE BOUNDARY LINES OF THE PARCEL SHOWN WERE PROTRACTED FROM A PLAT PREPARED BY HAMPSHIRE, HAMPSHIRE & ANDREWS INC., ENTITLED "PROPERTY SURVEY FOR MARGARET L. JONES", DATED DECEMBER 20, 1989.	DRAWN BY: M.R.H.
A SURVEY PERFORMED BY VEY FOR MARGARET L. JONES",	VAUGHN A. WIMBROW DATE	
	PROPERTY LINE SURVEYOR No. 243 B	COPYRIGHT 2006 ERS-WITH-C\BMG-C-18x24.dwg 5/4/2006 1:54:07 PM EDT

Robert L. Ehrlich, Jr. Governor

Michael S. Steele Lt. Governor



Martin G. Madden Chairman

> 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/

June 13, 2006

Jimmy Sharp Chesapeake Bay Critical Area Planner Wicomico County Department of Planning, Zoning and Community Development P.O. Box 870 Salisbury, Maryland 21803-0870

RE: Rivers Edge Subdivision

Dear Mr. Sharp:

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Thank you for submitting information on the above referenced subdivision. The parcel is 3.83 acres in size, is located entirely within the IDA classification of the Critical Area in Salisbury, and is Buffer Exempt. It is our understanding that currently no impervious surface exists on the parcel and that development will result in a total impervious surface on the site of 2.94 acres. I have reviewed the submitted plans and have the following comments:

- <u>Buffer</u>: It is our understanding that the parcel is a Buffer Exempt Area (BEA). Ordinarily, a BEA requires a 25 foot setback. However, in this case, the City of Salisbury has requested that the Critical Area Commission provide administrative approval to allow for development of a uniform Riverwalk which will provide public access to the water. At this time, in the absence of this approval, we have the following conditions for the proposed Riverwalk at this site: The specifications for the Riverwalk include an 8-foot walkway with a two-foot filter strip between the walkway and the water, and a 20-foot Buffer. The filter strip should be planted in native vegetation to absorb runoff.
- 2) <u>Natural Features:</u> Wicomico County Code section 125-46(B)(4) requires that the boundary survey plat show the location of all natural features, such as streams, major ravines and drainage patterns. These features are not shown and it is not clear whether these features exist on the parcel. Please request that the applicant either show these features or provide a plat note stating that no such features exist on the site.
- 3) <u>Existing Conditions Map</u>: The applicant is required to provide an existing conditions map which shows all existing natural and man-made features per the requirements of Wicomico County Code section 125-46(B)(5). While it seems that the "Topographical and Boundary Survey" site plan depicts some the existing conditions it is not clear

Jimmy Sharp June 13, 2006 Page 2 of 2

whether all of the existing conditions are shown. Please request that the applicant either resubmit with all existing conditions shown, or provide a plat note that states that all existing conditions are shown. This site plan should also include floodplain boundaries and identify all soils and the location of soils as required by 125-46(B)(6) and (7).

- 4) <u>Habitat Protection Areas (HPAs)</u>: We have not received comments from the Department of Natural Resources Heritage Division and all other necessary agencies which are involved in the identification and regulation of any HPAs on this site. Please forward these letters to our office as they become available.
- 5) Environmental Assessment Report: The Wicomico County Code Section 125-46(F)(7) requires the applicant to submit an environmental assessment report which provides a statement of how the proposed development addresses the goals and objections of the Wicomico County Critical Area program. This report has not been submitted. Please request the applicant provide this report and include the information required by section 125-46 (F)(7).
- 6) <u>Stormwater Management:</u> It is our understanding that the applicant cannot meet the required phosphorus load removal onsite and is paying a fee-in-lieu of mitigation for .99 lbs that cannot be met on site.

Thank you for the opportunity to provide comments. We request any revisions be sent to this office for our review and comment, given the outstanding issues. If you have any questions, please call me at (410) 260-3481.

Sincerely.

Jennifer B. Lester \ Natural Resources Planner

Cc: Matthew R. Hedger



ARCHITECTURE Engineering

PLANNING OUR CLIENTS' SUCCESS June 21, 2006

Ms. Jennifer B. Lester Natural Resources Planner State of Maryland Critical Area Commission Chesapeake and Atlantic Coastal Bays 1804 West Street, Suite 100 Annapolis, Maryland 21401

Re: **<u>RIVERS EDGE</u>** Salisbury, Maryland 2004223.01

Dear Ms. Lester:

RECEIVED

JUN 23 2006

CRITICAL AREA COMMISSION

In reference to the Critical Area Commissions letter, we offer the following responses to your correspondence dated 6/13/06:

 <u>Buffer</u>: It is our understanding that the parcel is a Buffer Exempt Area (BEA). Ordinarily, a BEA requires a 25 foot setback. However, in this case, the City of Salisbury has requested that the Critical Area Commission provide administrative approval to allow for development of a uniform Riverwalk which will provide public access to the water. At the this time, in the absence of this approval, we have the following conditions for the proposed Riverwalk at this site: The specifications for the Riverwalk include an 8-foot walkway with a 2-foot filter strip between the walkway and the water, and a 20-foot Buffer. The filter strip should be

planted in native vegetation to absorb runoff.

We have provided an 8-foot riverwalk with a minimum 2-foot filter strip between the walk and the Wicomico River. Some areas have in excess of 8 feet of filter strip between the walk and the river. A 30-foot Tidal Buffer has been provided and may be seen on the previously provided site plan.

<u>Natural Features</u>: Wicomico County Code section 125-46(B)(4) requires that the boundary survey plat show the location of all natural features, such as streams, major ravines and drainage patterns. These features are not shown and it is not clear whether these features exist on the parcel. Please request that the applicant either show these features or provide a plat note stating that no such features exist on the site.

The completed existing conditions survey has previously been provided and indicates all natural features.

Existing Conditions Map: The applicant is required to provide an existing conditions map which shows all existing natural and man-made features per the requirements of Wicomico County Code section 125-46(B)(5). While it seems that the "Topographical and Boundary Survey" site plan depicts some of the existing conditions it is not clear whether all of the existing conditions are shown. Please

BECKER MORGAN GROUP, INC.

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3)

Port Exchange Suite 300 312 West Main Street Salisbury, Maryland 21801 410.546.9100 Fax 410.546.5824

309 SOUTH GOVERNORS AVENUE DOVER, DELAWARE 19904 302.734.7950 FAX 302.734.7965

SOUTHBANK OFFICE PARK 307 A STREET WILMINGTON, DELAWARE 19801 302.888.2600 FAX 302.888.2427

BECKER MORGAN GROUP

ARCHITECTURE

ENGINEERING

request that the applicant either resubmit with all existing conditions shown, or provide a plat note that states that all existing conditions are shown. This site plan should also include floodplain boundaries and identify all soils and the location of soils as required by 125-46(B)(6) and (7).

The completed existing conditions survey has previously been provided and indicates all natural features.

4) <u>Habitat Protection Areas (HPAs)</u>: We have not received comments from the Department of Natural Resources Heritage Division and all other necessary agencies which are involved in the identification and regulation of any HPAs on this site. Please forward these letters to our office as they become available.

Lori Byrne, Wildlife and Heritage Services, Maryland Department of Natural Resources, has been notified of the project. We will provide the response when it is received.

5) Environmental Assessment Report: The Wicomico County Code Section 125-46(F)(7) requires the applicant to submit an environmental assessment report which provides a statement of how the proposed development addresses the goals and objections of the Wicomico County Critical Area program. This report has not been submitted. Please request the applicant provide this report and include the information required by section 125-46(F)(7).

The Environmental Assessment is enclosed for your review.

6) <u>Stormwater Management</u>: It is our understanding that the applicant cannot meet the required phosphorus load removal onsite and is paying a fee-in-lieu of mitigation for .99 lbs that cannot be met on site.

We intend to pursue the fee-in-lieu path and are currently working with the Wicomico County Department of Planning and Zoning office to facilitate this option.

If you have any questions regarding these responses, please do not hesitate to call.

Sincerely,

BECKER MORGAN GROUP, INC.

Mattle

Matthew R. Hedger Civil Designer

nll

200422301ax-ltr_MDCriticalReview.doc

ENVIRONMNETAL ASSESSMENT

For

RESIDENCES AT RIVERS EDGE 20042236.01 670 FITZWATER STREET SALISBURY, MARYLAND

WICOMICO COUNTY TAX MAP 106, PARCEL 1109, BLOCK 2, LOT 4 4.00 ACRES

Prepared By

Matthew R. Hedger Becker Morgan Group 312 West Main Street, Suite 300 Salisbury, Maryland 21801

RECEIVED

JUN 23 2006

CRITICAL AREA COMMISSION

June 21, 2006

EXISTING SITE CONDITIONS

This site is located on Fitzwater Street in Salisbury, Maryland. The subject site is identified in the Wicomico County Assessment Record on Tax Map 106, as Parcel 1109, Block 2, Lot 4 and further described in the Wicomico County Land Records in Liber 2558, Folio 51.

The total area of the site is 4.00 acres. The topographic survey of the site shows that the land is basically level. However, the site drops off from roughly elevation 4' to elevation 2.07' (mean high water line) within the southern portion of the site that is directly adjacent to the Wicomico River. The site contains 166 mixed hardwoods all within the 30' Tidal Buffer and includes species such as red maple, locust, tulip popular and sycamore. The remaining lands support various grass species. The site has been vacant for more than forty (40) years. The black and white photo labeled Photo #2 shows U. S. Route 50 (completed in approximately 1966) still under construction and not yet completed. The property is located entirely within an Intensely Developed Area of the Chesapeake Bay Critical Area, is a buffer lot on the Wicomico River and is located within Flood Zone A3, per FEMA FIRM Community Panel 240080 0002B, dated September 28, 1984.

Within a letter dated June 22, 2005 (attached), the Department of The Army Corps of Engineers determined that the wetlands within the "Area of review" depicted on a drawing dated March 28, 2005, prepared by Becker Morgan Group, Inc., identified as Survey Lands of cavalier Resources Limited Partnership, Fitzwater Street, Salisbury, Wicomico County, Maryland, Topographic and Boundary Survey, is accurate. From the drawing mentioned, it has been determined that an insignificant amount of tidal fringe wetlands exists along the mean high water line along the property.

No rare or endangered species were observed on this property and Lori Byrne, Wildlife and Heritage Services, Maryland Department of Natural Resources, has been notified by letter (attached) of the proposed development. Cultural features within view of this property include existing residential lots, a restaurant, marina and several commercial properties across the Wicomico River. No slopes greater than 5% were observed on the property and no historic sites were found. This site is located within the Lower Wicomico River Watershed (2130301). The property is located on A.D.S. Map 12.

PROPOSED SITE CONDITIONS

The site will be developed with four residential buildings consisting of 116 condominium/loft units and associated parking totaling 113,240 SF of impervious area. This represents approximately 65% impervious area in the post development condition. Water quality management is provided for 100 percent of the increased impervious area by a combination of a micropool/pocket pond with extended detention and bioretention. Since the main outfall discharges directly to tidal waters, only quality stormwater management is required.

The proposed site has been designed in accordance with the City of Salisbury development regulations using Best Management Practices (BMPs) listed in the City's Stormwater Design Guidelines. The pond and bioretention areas have been designed to capture and treat the water quality volume required by Maryland regulations. Recharge is provided by additional storage under the bioretention perorated drain pipe to allow runoff to infiltrate into the soil.

This project must also comply with the 10% pollutant reduction rule. The site will utilize a micropool ED pond and two (2) bioretention facilities for stormwater management and to reduce the pollutant load leaving the site. It has been calculated that the pollutant removal required for this project is 4.41 pounds of phosphorus (ph) per year. The micropool ED pond and two (2) bioretention facilities will remove 2.56 pounds of ph per year and the 0.25 acres of tidal wetland restoration gives the project a credit of removing another 0.75 pounds of ph a year. In total, we will remove all but 1.10 pounds of the pollutant removal requirement. We looked into alternative BMP options and have not found one that would work on site. We have no other alternative but to pay a fee-in-lieu for the amount of pollutant removal requirement that could not be reduced on site.

All sewage produced from the proposed site will be pumped to the City of Salisbury's Waste Water Treatment Plant. Water will be supplied by the City of Salisbury.

Maryland Department of The Environment and the Army Corps of Engineers have authorized through General Tidal Wetlands License 06-GL-0311 and Corps Permit Number 200565701 (attached), to fill, grade and plant marsh vegetation along 350 feet of eroding shoreline behind a low profile log containment sill within a maximum of 34 feet channelward of the mean high water line, to emplace 335 feet of rip rap revetment within a maximum of 10 feet channelward of the mean high water line and to install a 2' diameter stormwater outfall pipe at/or above the mean high water line of the Wicomico River.

GENERAL SOIL SURVEY

Based upon the Wicomico County Soil Survey Map #25, this site has the following soil type:

Soils Key

Ma Made Land – Type D Soil

MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore MD 21230 410-537-3000 • 1-800-633-6101

Robert L. Ehrlich, Jr. Governor

Michael S. Steele Lieutenant Governor Kendl P. Philbrick Secretary

Jonas A. Jacobson Deputy Secretary

GENERAL TIDAL WETLANDS LICENSE 06-GL-0311

Licensee: River Edge Venture LP Address: c/o Robert Simpkins 312 West Main Street, Suite 300 Salisbury, MD 21801

Under the authority of the Board of Public Works of the State of Maryland and in accordance with Title 16, Wetlands and Riparian Rights, Environment Article, Annotated Code of Maryland and COMAR 23.02.04 and COMAR 26.24 and the conditions of this license, the licensee is authorized to perform the following activity:

To fill, grade and plant marsh vegetation along 350 feet of eroding shoreline with approximately 65 cubic yards of sand place behind a low profile log containment sill within a maximum of 34 feet channelward of the mean high water line; to emplace 335 feet of rip rap revetment within a maximum of 10 feet channelward of the mean high water line; to install a 2-foot diameter stormwater outfall pipe at/or above the mean high water line of the Wicomico River at the South side of Fitzwater Street at the Hill Street intersection in Wicomico County as depicted on the attached plan dated 7/19/05.

By applying for and receiving this General License the licensee shall be considered to have knowledge of and to have accepted the special and general conditions of this license. Licensee agrees that all work shall be performed in compliance with these conditions.

This general license is subject to the following conditions:

SPECIAL CONDITIONS

A. Marsh establishment:

- 1. The licensee shall use clean substrate fill material, no more than 10% of which shall pass through a standard number 100 sieve.
- 2. The marsh establishment area shall be planted within one year following completion of the filling operation.
- 3. The marsh establishment shall project shall be maintained as a wetland, with non-nuisance species' aerial coverage of at least 85% for three consecutive years. If 85% coverage is not attained, the reasons for failure shall be determined, corrective measures shall be taken, and the area shall be replanted.
- 4. If the fill is graded hydraulically, the licensee shall use a turbidity curtain around the perimeter of the instream work.
- 5. If the existing bank is to be cleared or graded, the licensee shall obtain any required erosion and sediment control plan from the Wicomico County Soil Conservation District.



MDE

6. The permittee shall comply with all State Critical Area guidelines.

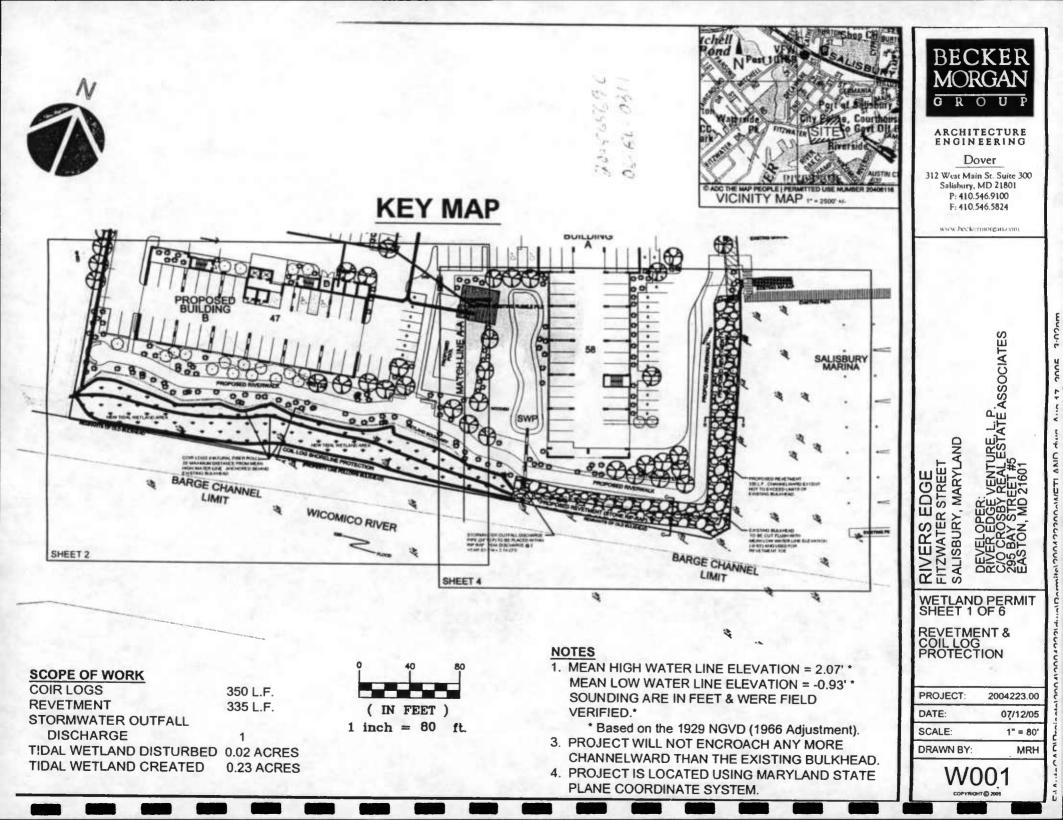
GENERAL CONDITIONS

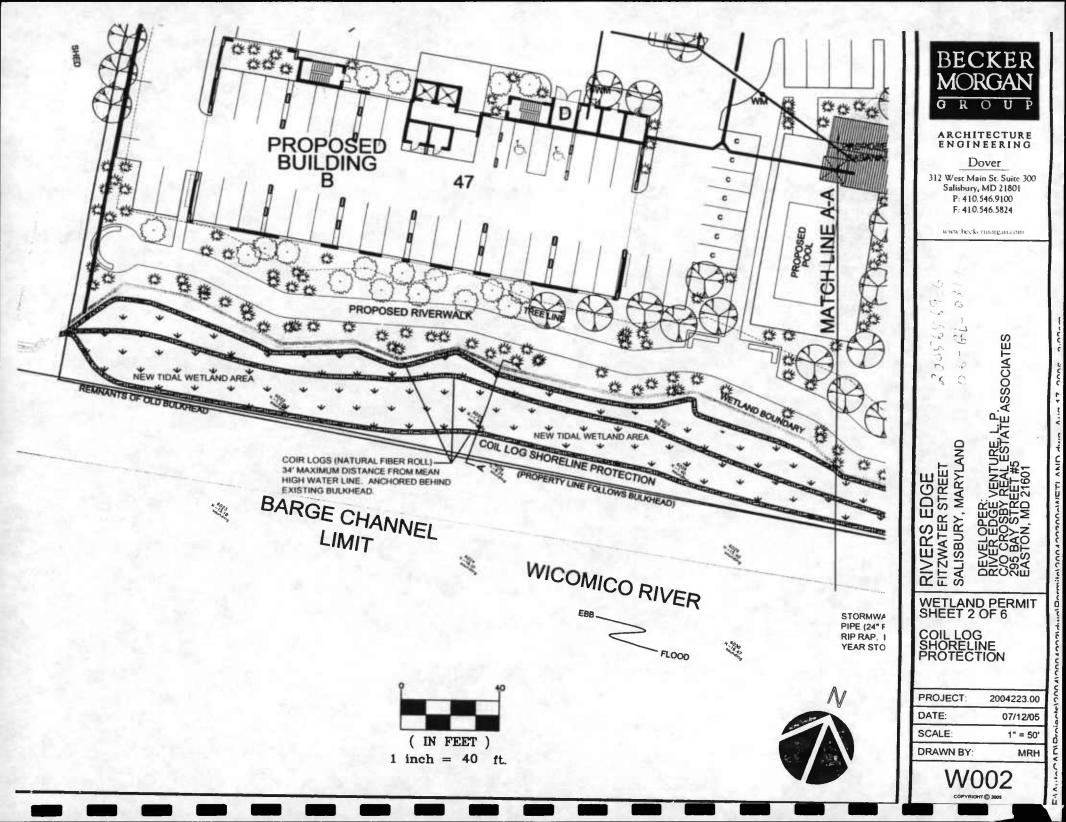
- A. The licensee shall obtain an approved sediment and erosion control plan from the local soil conservation district when the area disturbed is greater than 5000 square feet:
- B. The licensee certifies real property interest in the contiguous upland;
- C. This license is valid only for use by the licensee. Permission for transfer of the license shall be obtained from the Maryland Department of the Environment. The terms and conditions of this license shall be binding on any assignee or successor in interest of the license:
- D. The licensee acknowledges that this license does not transfer any property interest in State tidal wetlands. This license allows the licensee to use State tidal wetlands only for the structure or activity authorized herein and in no way limits the use of waters of the State by the public;
- E. This license is void if the licensee fails to obtain all required State, Federal, and local approvals before beginning work on the licensed structure or activity;
- F. The licensee shall allow representatives of the Maryland Department of the Environment to enter the property at reasonable times to inspect the ongoing or completed work under the license;
- G. The licensee shall make every reasonable effort to design and construct the structure or perform the activity authorized in this license in a manner which minimizes adverse impacts on natural resource values. including water quality, plants, wildlife, plant and wildlife habitat, and on historic property values;
- H. The licensee shall notify the Water Management Administration, Inspections and Compliance Division at (410) 901-4020 at least 5 days before beginning the activity;
- I. This license expires 3 years after the date of issuance. The licensee shall complete construction of the activity authorized under this license within the allowed 3 years, otherwise a new general license shall be obtained;
- J. The Maryland Department of the Environment may suspend or revoke this license upon written finding for good cause that suspension or revocation is in the State's best interest.

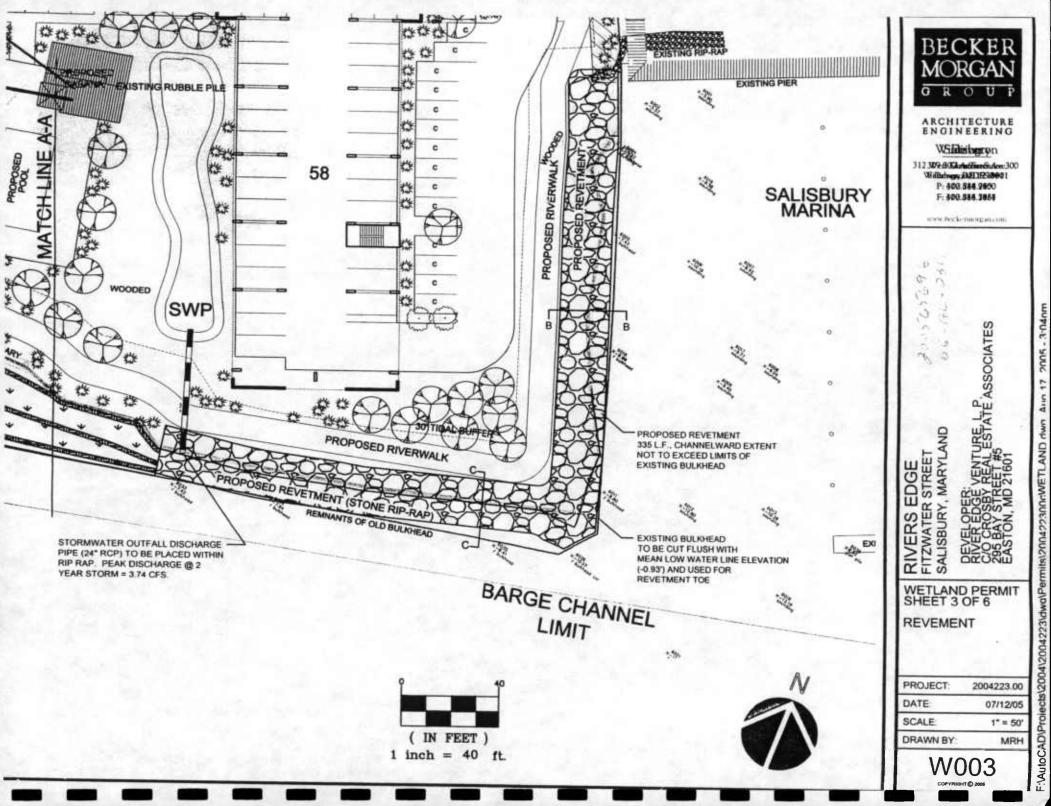
Robert Tabisz. Chief License and Permit Review Section Tidal Wetlands Division

Date of Issuance:

September 29, 2005







Ann 2004/2004223/dwo/Permits/2004223/nocWETLAND rwn



Robert L. Ehrlich, Jr., Governor Michael S. Steela, Lt. Governor C. Ronald Franks, Secretary

July 24, 2006

Mr. Matthew R. Hedger Becker Morgan Group, Inc. Port Exchange, Suite 300 312 West Main Street Salisbury, MD 21801

BECKER MORBAN UL 23 06

RE: Environmental Review for Residences at Rivers Edge, Tax Map 106, Parcel 1109, Block 2, Lot 4, Fitzwater Street, Salisbury, Project #2004223.01, Wicomico County, Maryland.

Dear Mr. Hedger:

The Wildlife and Heritage Service has determined that there are no State or Federal records for rare, threatened or endangered species within the boundaries of the project site as delineated. As a result, we have no specific comments or requirements pertaining to protection measures at this time. This statement should not be interpreted however as meaning that rare, threatened or endangered species are not in fact present. If appropriate habitat is available, certain species could be present without documentation because adequate surveys have not been conducted.

Thank you for allowing us the opportunity to review this project. If you should have any further questions regarding this information, please contact me at (410) 260-8573.

Sincerely,

Louia. Bym

Lori A. Byrne, Environmental Review Coordinator Wildlife and Heritage Service MD Dept. of Natural Resources

ER #2006.1091.wi

NLISBURN WICOMICO Planning Office Received Date sister By 2

> Tawes State Office Building + 580 Taylor Avenue - Annapolis, Maryland 21401 410.260.8DNR or toll free in Maryland 877.620.8DNR - www.dnr.maryland.gov - TTY users call via Maryland Relay

LONG TERM MANAGEMENT AGREEMENT DEED OF CHESAPEAKE BAY CRITICAL AREA EASEMENT WICOMICO COUNTY, MARYLAND

THIS DEED OF CHESAPEAKE BAY CRITICAL AREA EASEMENT is made this day of ______, 2006, by and between <u>Robert S. Bartoshesky</u>

hereinafter called the "Grantors", and WICOMICO COUNTY, MARYLAND, a body politic and corporate of the State of Maryland, hereinafter called "County".

RECITALS

WHEREAS, Grantor(s) are the owners of a certain parcel of land situate in the <u>Barren</u> <u>Creek</u> Election District of Wicomico County, Maryland, which was conveyed to Grantors by deed dated <u>September 2, 1999</u>, and recorded among the Land Records of Wicomico County, Maryland, in Liber <u>1703</u>, Folio <u>721</u>, et seq.; and

WHEREAS, Grantor(s) have elected to engage in a regulated activity, as defined by Section 12.20.190(D)(4) of the Salisbury, Maryland Municipal Code, Title 12, Streets, Sidewalks and Public Places, and have applied to the City of Salisbury and Wicomico County Department of Planning, Zoning and Community Development for approval of the regulated activity; and

WHEREAS, as a condition of the aforesaid approval, Grantors have submitted and the County has approved Final Chesapeake Bay Critical Area Easement Plan (the "Plan"), which sets forth the requirements for the 10% Rule in the Chesapeake Bay Critical Area in an area located on the aforesaid property and designated on the approved final subdivision plat, site development plan, or grading permit, as the Chesapeake Bay Critical Area Easement Area, and more particularly described on Exhibit A, attached hereto and made a part hereof. Said Plan is incorporated into and made a part of this Deed of Easement by reference; and

WHEREAS, the Final Chesapeake Bay Critical Area Easement Plan, and Section 12.20.190(D)(4) of the Salisbury, Maryland Municipal Code, Title 12, Streets, Sidewalks and Public Places, require the establishment of a mitigation easement in, on, over and through Chesapeake Bay Critical Area Easement Area, to ensure the permanent protection, management and inspection of said area.

GRANT AND AGREEMENTS

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, THEREFORE, for and in consideration of the foregoing, the covenants and promises contained herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

1. Grantor(s) do hereby grant and convey unto Wicomico County, Maryland, a body politic and corporate of the State of Maryland, its successors and assigns, a Chesapeake Bay Critical Area management and access easement, of the nature and character and to the extent hereinafter set forth, in, on, over, through and across the aforesaid Chesapeake Bay Critical Area easement (as described in Exhibit A). Grantor(s) further establish, create and declare the restrictions herein set forth in favor of and for the benefit of the County, its successors and assigns.

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2. Grantor(s) covenant with the County as follows:

A. To refrain from destroying, damaging or removing anything of nature which grows there now, or hereafter except (i) as provided herein, (ii) with the approval of the County as to manner, form, extent and any other aspects of the removal whatsoever, or (iii) as otherwise provided in the final Chesapeake Bay Critical Area easement plan approved under Section 12.20.190(D)(4) of the Salisbury, Maryland Municipal Code and Chapter 125 of the Wicomico County Code; it being the express intention of the parties hereto that Grantor(s) shall comply with the final Chesapeake Bay Critical Area easement plan approved under Section 12.20.190(D)(4) of the Salisbury, Maryland Municipal Code and Chapter 125 of the Wicomico County Code and that the easement area shall be preserved in a manner which protects the forest thereon, existing or to be established without approval of the County as to manner, form, extent and any other aspects of the removal whatsoever.

B. All areas designated as "Chesapeake Bay Critical Area Easement Area" on the final easement plan designated above, shall be maintained in perpetuity in accordance with the approved Easement plan.

3. Grantor(s) hereby relinquish the right to use or develop the Chesapeake Bay Critical Area easement area for any purpose whatsoever, except for the following uses:

A. Planting, maintenance and protection of the Chesapeake Bay Critical Area easement area in accordance with the terms and conditions of the Plan;

B. Passive recreational activities which are consistent with and do not interfere with Chapter 125 of the Wicomico County Code and management or cause harm to forest management resources, including walking, hiking, and bird watching;

C. Wicomico County Chesapeake Bay Critical Area Program and management practices, including harvesting of trees in accordance with a written agreement with the State Department of Natural Resources; provided suitable provisions are made for the replacement of harvested trees.

4. Grantor(s) may engage in limited clearing of the forest understory, such as may be necessary to allow a walking or hiking trail for foot traffic only; and may allow the removal of dead or dying trees, and obnoxious plants or weeds. However, prior authorization from the City of Salisbury and Wicomico County Department of Planning, Zoning and Community Development is required and a Chesapeake Bay Critical Area Certificate of Compliance must be obtained.

5. All rights reserved by or not prohibited to Grantor(s) shall be exercised so as to prevent or minimize damage to the forest and trees, streams and water quality, plant and wildlife habitats, and the natural topographic character of the easement area.

6. The County, or its duly authorized representatives shall have the right, at reasonable hours, to enter the Chesapeake Bay Critical Area easement area for the sole purpose of inspecting the easement area to determine whether the Grantor(s) are complying with the terms, covenants, conditions, limitations and restrictions herein contained.

7. No failure on the part of the County to enforce any covenant or provision hereof shall discharge or invalidate such covenant or any other covenant, condition, or provision hereof or affect the right of the County to enforce the same in the event of a subsequent breach or default.

8. Upon any breach of the terms of this Deed of Easement the County may exercise any or all of the remedies provided in Chapter 125 of the Wicomico County Code including, but not limited to the institution of an action in equity to enjoin, by temporary or permanent injunction, such breach; to require the restoration of the forest to its condition prior to such breach, and such other legal action as may be necessary to ensure compliance with this Deed of Easement and the covenants, conditions, limitations and restrictions herein contained. If Grantor, is found to have breached any of its obligations under this Deed of Easement, Grantor shall reimburse the County for any costs or expenses incurred, including consultant's fees, court costs, reasonable attorney's fees, and any administrative and overhead costs.

9. If the Grantor has any questions concerning the easement, covenants, conditions, limitations or restrictions herein contained with respect to any particular use of the said easement property, Grantor may submit a written request to the County for consideration and approval of such use; and County may relax any requirement hereof or render an interpretation hereof.

10. This Deed of Easement does not grant the public, in general, any right of access or any right to the use of the easement area, or any other portion of the property. This easement extends only to those areas designated as the Chesapeake Bay Critical Area easement area and necessary access thereto.

11. The Grantor(s) further covenant and agree that the easements, rights of way, covenants and agreements contained herein shall run with the Chesapeake Bay Critical Area easement area and all portions thereof and shall bind the Grantor(s) and their heirs, personal representatives, successors and assigns and shall bind all present and subsequent owners of the property identified herein.

12. Grantor(s) agree to make specific reference to this Deed of Easement in a separate paragraph of any subsequent sales contract, mortgage, deed, lease or other legal instrument by which any interest in the Chesapeake Bay Critical Area easement area is conveyed.

13. This Deed of Easement shall be binding upon the personal representatives, heirs, successors and assigns of the parties hereto.

14. The undersigned lienholders, if any, do hereby join in this conveyance for the purpose of granting and conveying the above stated easement as legal title holder of the herein described property.

TO HAVE AND TO HOLD the said easement unto Wicomico County, Maryland, a body politic and corporate of the State of Maryland, its successors and assigns, forever, for the uses and purposes hereinbefore described.

AND the said Grantors covenant that they have not done nor suffered to be done anything to encumber the property, easement, and or rights hereby conveyed and that they will execute such other and further assurances of the same as may be necessary and requisite.

AS WITNESS our hands and seals the day and year first above written.

WITNESS:

Grantor
Grantor
ATTEST:
WICOMICO COUNTY, MARYLAND
Anthony Sarbanes, President, Grantee

STATE OF MARYLAND, WICOMICO COUNTY TO WIT:

I HEREBY CERTIFY that on this _____ day of _____, 2006, before me, the subscriber, a Notary Public, in and for the state and county aforesaid, personally appeared , ______ of said ______, and as such ______, (s)he made oath in due form of law that the matters and facts hereinbefore set forth are true and correct to the best of his/her knowledge, information and belief.

AS WITNESS my hand and Notarial Seal.

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Notary Public My Commission Expires:

STATE OF MARYLAND, WICOMICO COUNTY TO WIT:

I HEREBY CERTIFY that on this _____ day of _____, 2006, before me, the subscriber, a Notary Public, in and for the state and county aforesaid, personally appeared Anthony Sarbanes, President of the Wicomico County Council, and as such President, he made oath in due form of law that the matters and facts hereinbefore set forth are true and correct to the best of his knowledge, information and belief.

AS WITNESS my hand and Notarial Seal.

Notary Public My Commission Expires:

APPROVED FOR LEGAL SUFFICIENCY:

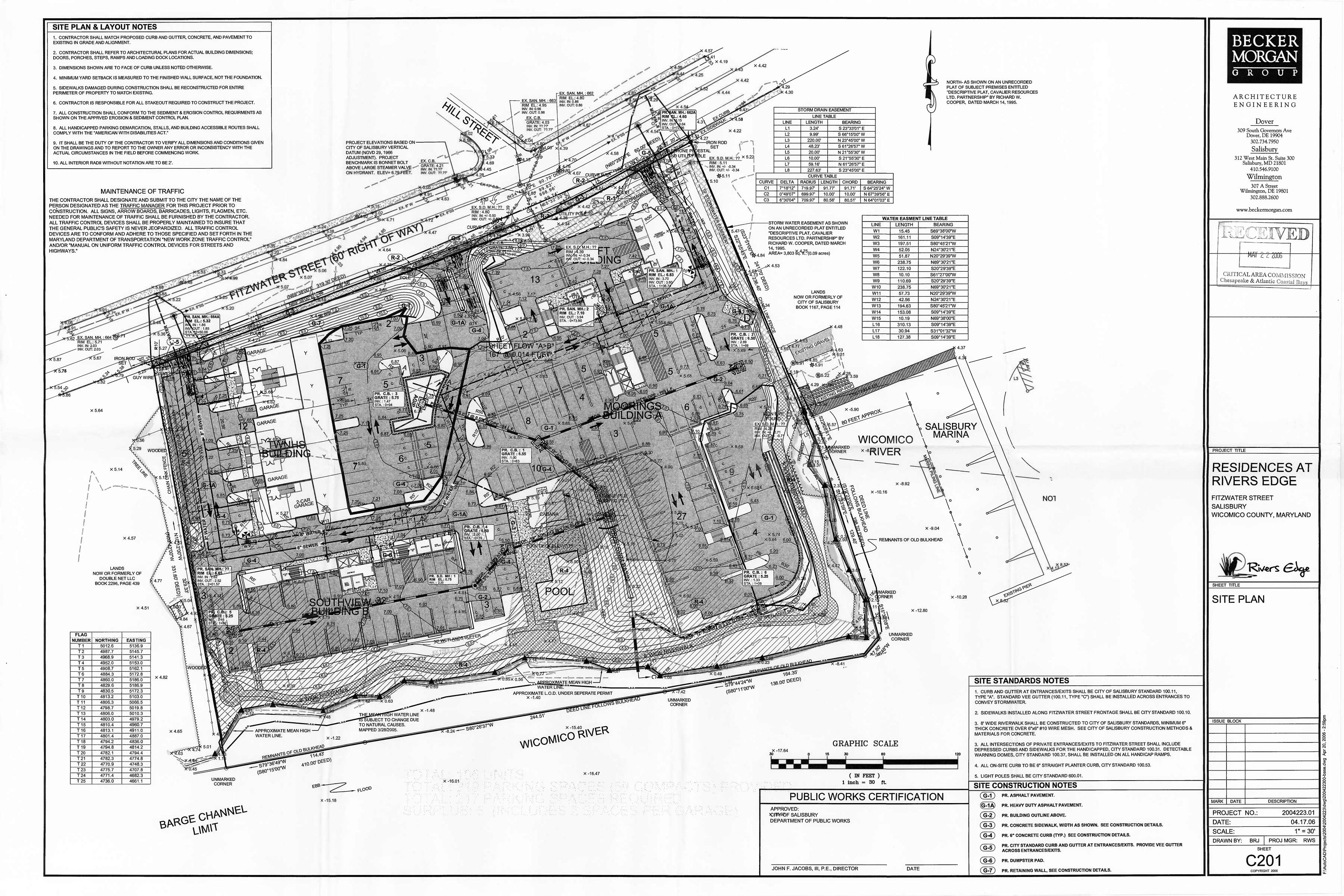
Edgar A. Baker, Jr., County Attorney

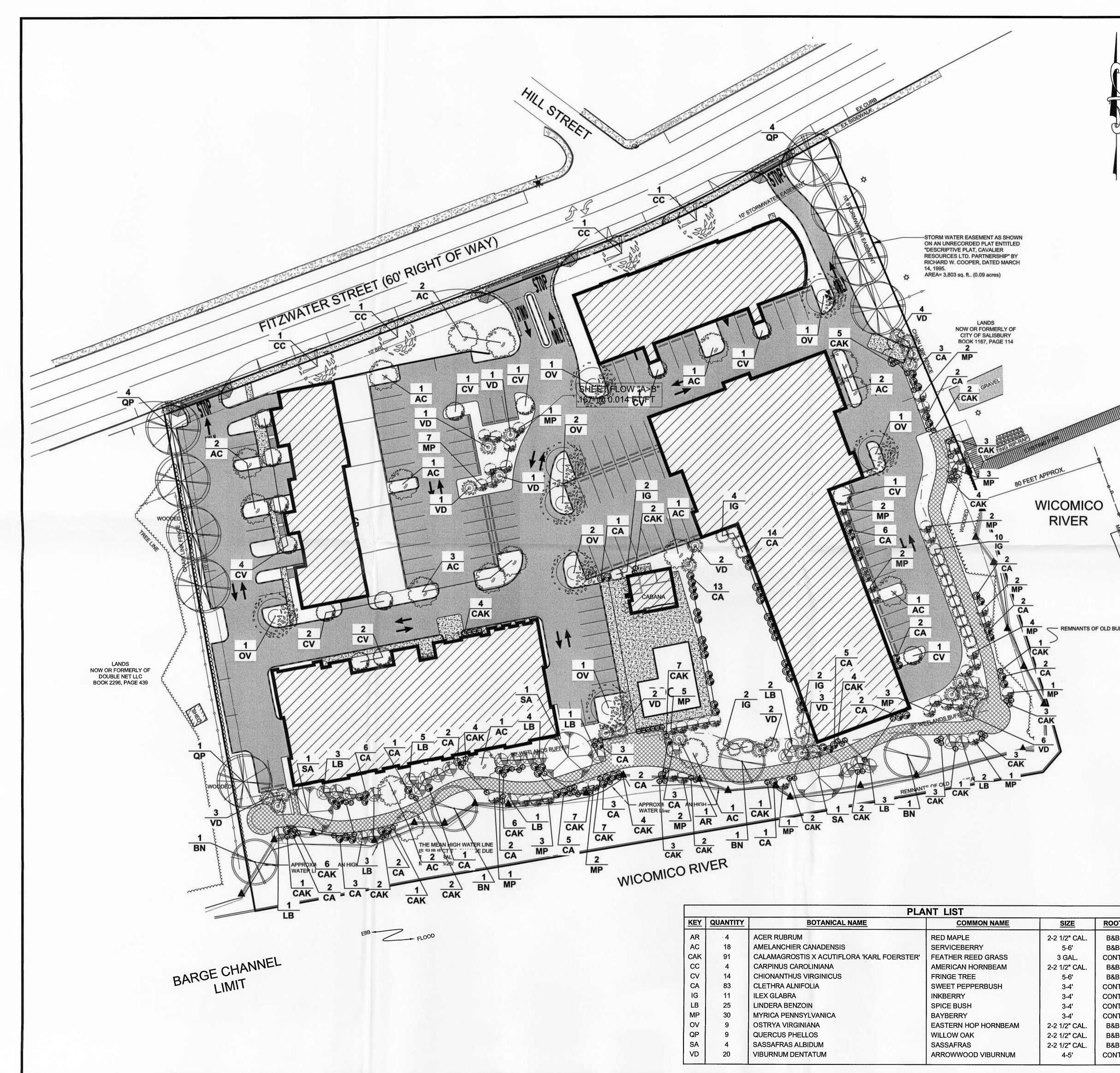
Exhibit A

Chesapeake Bay Critical Area Easement Area

The Chesapeake Bay Critical Area Easement Area shall be all that tract or parcel of land lying and being in the <u>Barren Creek</u> Election District of Wicomico County and State of Maryland, and being more particularly described as that area designated "Chesapeake Bay Critical Area Easement Area" on a plat entitled "<u>Chesapeake Bay Critical Area Easement for the Residence at</u> <u>Rivers Edge</u>.", made by <u>Becker Morgan Group, Inc.</u>, dated <u>September 15, 2006</u>, and intended to be recorded among the Land Records of Wicomico County, Maryland immediately following the execution of this Agreement.

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	PLANT LIST					
KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	
AR	• 4	ACER RUBRUM	RED MAPLE	2-2 1/2" CAL.	B&B	
AC	18	AMELANCHIER CANADENSIS	SERVICEBERRY	5-6'	B&B	
CAK	91	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	FEATHER REED GRASS	3 GAL.	CONT	
CC	4	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	2-2 1/2" CAL.	B&B	
CV	14	CHIONANTHUS VIRGINICUS	FRINGE TREE	5-6'	B&B	
CA	83	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	3-4'	CONT	
IG	11	ILEX GLABRA	INKBERRY	3-4'	CONT	
LB	25	LINDERA BENZOIN	SPICE BUSH	3-4'	CONT	
MP	30	MYRICA PENNSYLVANICA	BAYBERRY	3-4'	CONT	
ov	9	OSTRYA VIRGINIANA	EASTERN HOP HORNBEAM	2-2 1/2" CAL.	B&B	
QP	9	QUERCUS PHELLOS	WILLOW OAK	2-2 1/2" CAL.	B&B	
SA	4	SASSAFRAS ALBIDUM	SASSAFRAS	2-2 1/2" CAL.	B&B	
VD	20	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	4-5'	CONT.	

NORTH- AS SHOWN OF PLAT OF SUBJECT PRI "DESCRIPTIVE PLAT, C LTD. PARTNERSHIP" B COOPER, DATED MAR	EMISES ENTITLED CAVALIER RESOURCES Y RICHARD W.	BECKER BUDARCEAR DORREAR B R O U PBRCHITECTURE C R O U PARCHITECTURE E N GI N E E RI N GDover Dover, DE 19904 302.734.7950 Balisbury MD 21801 A10.546.9100S12 West Main St. Suite 300 Salisbury, MD 21801 A10.546.9100Wilmington, DE 19801
		Wilmington, DE 19801 302.888.2600 www.beckermorgan.com RECEIVED MAY 2: 2:2006 CRITICAL AREA COMMISSION Chesapeake & Atlantic Coastal Bays
		PROJECT TITLE
JLKHEAD		RESIDENCES AT RIVERS EDGE FITZWATER STREET SALISBURY WICOMICO COUNTY, MARYLAND
		LANDSCAPE PLAN
<u>PT REMARKS</u> 3 3 1T. 3	GRAPHIC SCALE 30 0 15 30 60 $120(IN FEET)1 inch = 30 ft.$	
3 T. T. T. T. 3 3 3 3 T.	APPROVED: CITY OF SALISBURY DEPARTMENT OF PUBLIC WORKS	MARK DATE DESCRIPTION PROJECT NO.: 2004223.01 DATE: 04.17.06 SCALE: 1" = 30' DRAWN BY: BRJ PROJ MGR: SHEET L101

COPYRIGHT 2006

JOHN F. JACOBS, III, P.E., DIRECTOR

DATE

Critical Area 10% Workbook NEW DEVELOPMENT ONLY

Calculating Pollutant Removal Requirements

Step 1:	Step 1: Calculate Existing and Proposed Site Imperviousness			
Α.	Calculate Percent Imperviousness			
1)	Site Area Within the Critical Area IDA, A =	3.83 acres		

2) Site Impervious Surface Area, Existing and Proposed, *See Table 4.1 for Details

	(a) Existing (acres)	(b) Proposed (acres)
Roads	0	
Parking Lots	0	1.26
Driveways	0	
Sidewalks/Paths	0	0.34
Rooftops	0	1.21
Decks	0	
Swimming Pools/Ponds	0	0.13
Other	0	
Impervious Surface Area	0.00	2.94

3) Imperviousness (I)

	Existing Imp	perviousness, l	lpre = Impervious Surface A	rea/Site Area
or or	(Step 2a)/(S	tep 1)		
SO Ipre =	0.00	or [0.00%	
Description of the second	Proposed ii	nperviousness	, Ipre = Impervious Surface	Area/Site Area
or	(Step 2b)/(St	tep 1)		

NOTE: All acreage used in this worksheet refers to areas within the IDA of the Critical Area only.

Step 2A: Calculate Predevelopment Load

New Development

Lpre =	(1	0.5) (A)		
1.0	or	0.5 *	3.83	acres
	so	1.92 lbs	s/year c	of total phosphorus

Where:

Lpre =	Average annual load of total phosphorus exported from the site prior to development (lbs/year)
0.5 =	Annual total phosphorus load from undeveloped lands (lbs/acre/year)
A =	Area of the site within the Critical Area IDA (acres)

Step 3: Calculate the Post-Development Load

A. New Development and Redevelopment:

Lpost =	(Rv) (C) (A) (8.16)
---------	---------------------

Rv = 0.05 + ((0.009)(Ipost))

so Rv =	0.74
	0.74
Lpost =	6.94 lbs/year of total phosphorus

Where:

- Lpost = Average annual load of total phosphorus exported from the post development site (lbs/year)
 - **Rv** = Runoff coefficient, which expresses the fraction of rainfall which is converted into runoff
- lpost = Post-development (proposed) site imperviousness (i.e. I = 75 if the site is 75% impervious)
 - C = Flow-weighted mean concentration of the pollutant (total phosphorus) in urban runoff (mg/l)= 0.30mg/l
 - A = Area of the site within the Critical Area (acres)
- 8.16 = Includes regional constants and unit conversion factors

Step 4: Calculate the Pollutant Removal Requirement (RR)

RR= Lpost - (0.9)(Lpre)

5.21 lbs/year of total phosphorus

Where:

so

RR= Pollutant removal requirement

- Lpost = Average annual load of total phosphorus exported from the post development site (lbs/year)
- Lpre = Average annual load of total phosphorus exported from the site prior to development (lbs/year)

Step 5: Identify Feasible BMP's

Select BMP options using the screening matrices provided in Chapter 4 of the 2000 Maryland Stormwater Design Manual. Calculate the Load removed for each option.

BMP Type	(Lpost)	(BMPRE)	(% DA Served)	Load Removed
Pocket Pond	6.94	50.00%	100.00%	3.47
	6.94			0.00
	6.94	2010 N 10 10 10		0.00
	6.94			0.00
	6.94			0.00
	6.94			0.00
		Load Remove	ed, LR (total)	3.47
	Pollutant	Removal Requir	ement, RR	5.21
	1.1.1	Surple	us\Shortfall	1.75

Where:

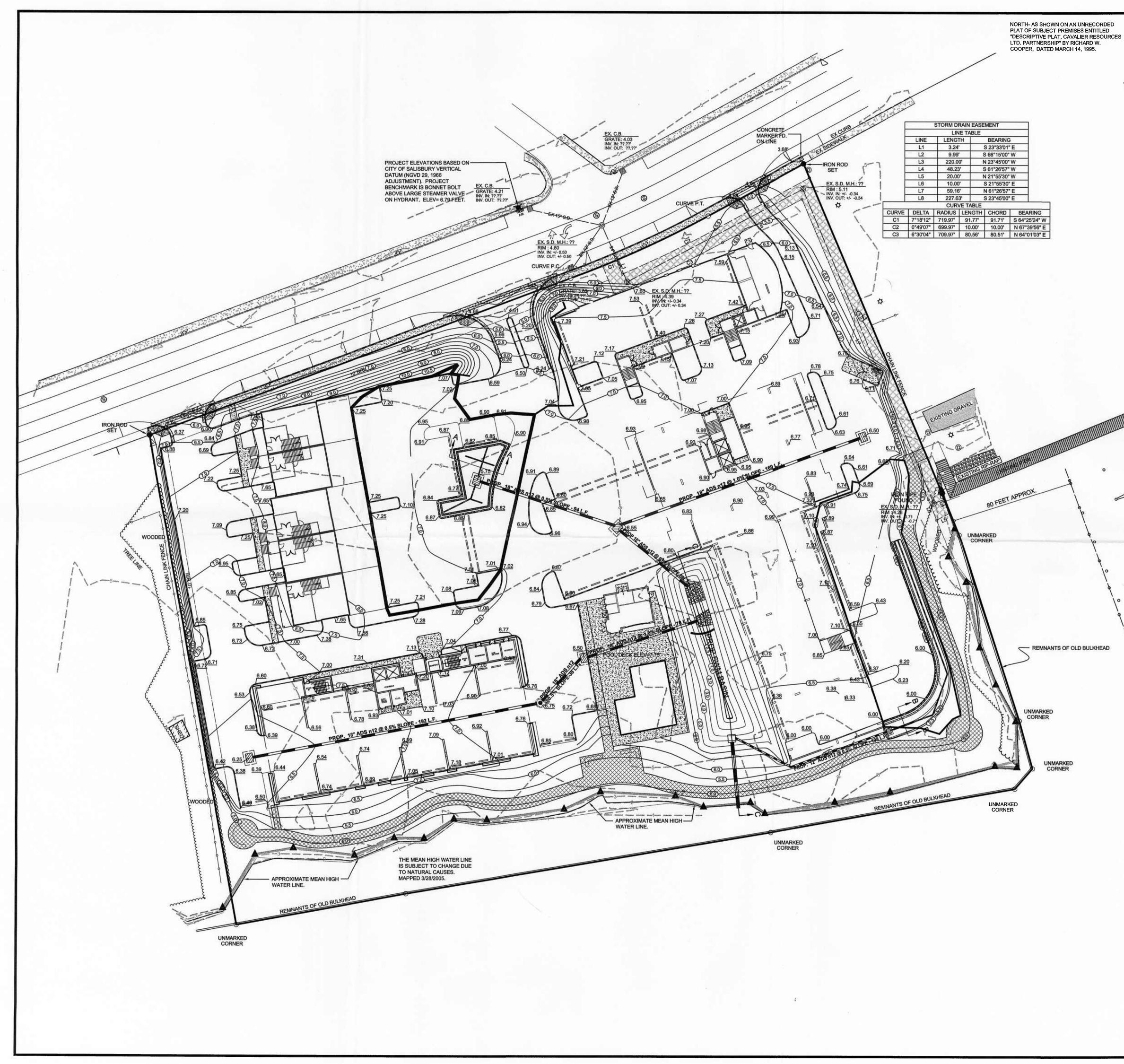
Load Removed = Annual total phosphorus load removed by the proposed BMP (lbs/year)

Lpost = Average annual load of total phosphorus exported from the post development site (lbs/year)

BMPRE = BMP removal efficiency for total phosphorus, Table 4.8(%)

% DA Served= Fraction of the site area within the Critical Area IDA served by the BMP (%)

RR = Pollutant Removal Requirement



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	PLANS. 5. THIS AGREEMENT SHALL BE RECORDED BY THE OWNER AMONG THE LAND RECORDS OF WICOMICO COUNTY. 6. THIS AGREEMENT SHALL RUN WITH THE LAND AND SHALL INSURE TO THE BENEFIT OF AND BE BINDING UPON AND ENFORCEABLE UPON ALL THE PARTIES HERETO, THEIR HEIRS, PERSONAL REPRESENTATIVES, SUCCESSORS AND ASSIGNS, AND ANY PERSON CLAIMING UNDER OWNER SHALL BE BOUND BY THE PROVISIONS HEREOF. AS-BUILT CERTIFICATION	MAY 2.2 2006 CRITICAL AREA COMMISSION Chesapeake & Atlantic Coastal Bays
•	SIGNATURE (OWNER) DATE	
,		RESIDENCES AT RIVERS EDGE FITZWATER STREET SALISBURY WICOMICO COUNTY, MARYLAND
`` °		SHEET TITLE STORMWATER PLAN POSTDEVELOPMENT
	GRAPHIC SCALE	ISSUE BLOCK
		DATE: 04.17. SCALE: 1" = 3 DRAWN BY: BRJ PROJ MGR: RV SHEET SHEET SHEET SHEET SHEET