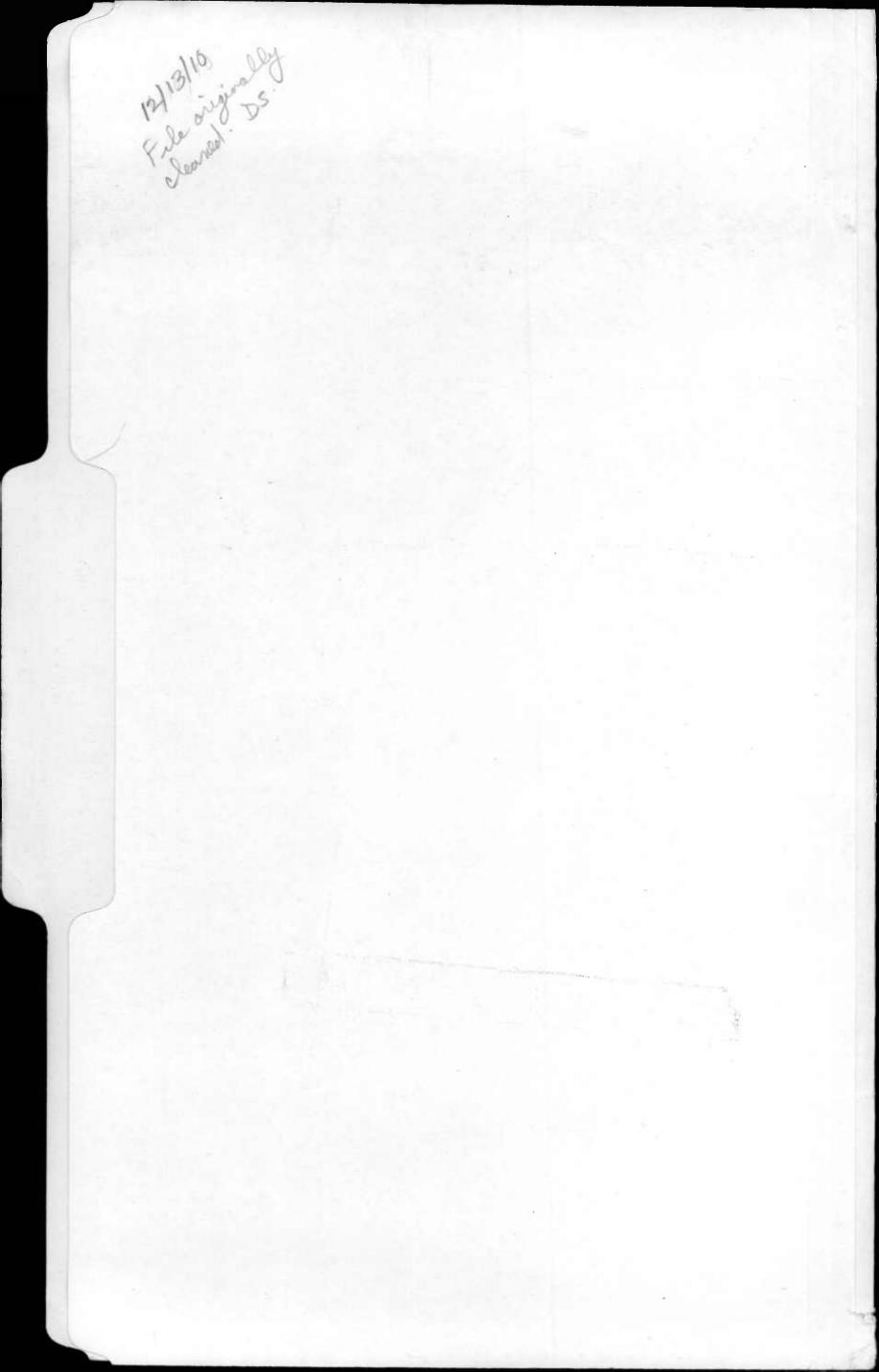
- HC 63-05 Bush River Village Site Plan

MSA-S-1829-4989

2/11/05 5/23/08-MJ 1/5/08-MJ



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/

December 10, 2010

Mr. Bryan Lightner Harford County Planning and Zoning 220 South Main Street Bel Air, Maryland 21014

Re: Bush River Village S 10-122

Dear Mr. Lightner:

This office has received the above-referenced project for review and comment. The site is in the Intensely Developed Area and is mapped as a Buffer Exemption Area. The applicant proposes to adjust the lot lines between three existing lots. Since the existing lots are currently conforming and will remain conforming after the lot line adjustment, the requirements of COMAR 27.01.02.08 are not applicable.

Based on the site plan submitted, I have the following comment:

There is an inconsistency between the note that indicates "Total Planting Area Proposed = 7,838 sf" and a later note that indicates "Remaining Planting Required = 772 sf". The applicant should reconcile this discrepancy by amending the appropriate note since it appears the total required planting is 7,688 square feet.

Thank you for the opportunity to provide comments. Please telephone me if you have any questions at (410) 260-3478.

Sincerely,

non a. Florigce Lisa A. Hoerger

Regulations Coordinator

cc: HC 63-05

TTY for the Deaf Annapolis: (410) 974-2609 D.C. Metro: (301) 586-0450

\$

Martin O'Malley Governor

Anthony G. Brown



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/

July 8, 2008

Pat Pudelkewicz Harford Co. Dept. of Planning and Zoning 220 South Main Street Bel Air, MD 21014

RE: Bush River Village Revised Plans

Dear Ms. Pudelkewicz:

I have received revised plans for this project from the consultant. The applicant proposes to develop the site with a shopping center within the Intensely Developed Area (IDA) of the Chesapeake Bay Critical Area. I have reviewed the stormwater and landscaping revisions and have no further comments.

Thank you for the opportunity to provide comments on this proposal. If you have any additional questions please contact me at 410-260-3479.

Sincerely,

N

Marshall Johnson Natural Resources Planner

cc: HC 63-05

Jim Scharfe, Frederick Ward Assoc. (PO Box 727, 5 South Main Street, Bel Air, MD 21014-0727)

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/

June 23, 2008

Pat Pudelkewicz Harford Co. Dept. of Planning and Zoning 220 South Main Street Bel Air, MD 21014

RE: Bush River Village Revised Plans

Dear Ms. Pudelkewicz:

Michele Bynum from your office submitted revised plans for this project for review by my office. The applicant proposes to develop the site with a shopping center within the Intensely Developed Area (IDA) of the Chesapeake Bay Critical Area. The following comments apply to the revised submittal.

- 1. Although the former plans were reviewed and confirmed to be in conformance with Critical Area regulations by Dawn McCleary on March 26, 2006, the revised plan indicates that the proposed impervious surface is increasing. The 10% stormwater pollution reduction calculations in my file indicate that the removal requirement was exactly met by the proposed stormwater management plan. Therefore, the stormwater management is no longer meeting the 10% according to the calculations on file in this office and a revised 10% Worksheet A must be submitted.
 - 2. If the landscaping plans are revised, please have the applicant confirm whether BEA mitigation provisions are still met by the revised plan.

Thank you for the opportunity to provide comments on this proposal. If you have any additional questions please contact me at 410-260-3479.

Sincerely,

Marshall Johnson Natural Resources Planner

cc: HC 63-05

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/

March 2, 2006

Mr. Nick Walls Environmental Planner Harford County Planning and Zoning 220 South Main Street Bel Air, Maryland 21014

RE: Bush River Village 3828 Pulaski Highway

Dear Mr. Walls:

This office has reviewed the revised site plan with enclosed planting plan and the 10 % calculations. Part of the above project is in the County's Buffer Exemption Area. The applicant has satisfied the revised 10 % calculations and the BEA mitigation provisions and we have no additional comments. If there are any questions, please feel free to call me at (410) 260-3483.

Sincerely,

Cleary Dawnn McCleary

Natural Resources Planner

cc: Regina Esslinger HC 63-05

€€

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/

February 11, 2005

Ms. Nancy Lipski Site Plan and Permit Review Harford County Planning and Zoning 220 South Main Street Bel Air, Maryland 21014

RE: Bush River Village

Dear Ms. Lipski:

Thank you for sending us the Bush River Village proposal to reconfigure four commercial lots into three commercial lots. The proposed lots total 2.17 acres, are in an Intensely Developed Area (IDA) and in a Buffer Exemption Area.

The site plan must show the location of the three stormwater management facilities proposed to satisfy 10 % pollutant reduction calculations. The plan must also show the 100-foot Buffer. The applicant needs to demonstrate that the project complies with the County's Buffer Exemption provisions, including mitigation requirements.

I will provide additional comments once we receive this information. Thank you for the opportunity to comment. If you have any questions, please feel free to call me at (410) 260-3483.

incerely.

aunn Mc Cleary Dawnn McCleary

Natural Resources Planner

cc: Nick Walls Pat Pudelkewicz **Regina Esslinger** HC 63 - 05

1.3-05

C. PETE GUTWALD DIRECTOR OF PLANNING & ZONING

LORRAINE COSTELLO DIRECTOR OF ADMINISTRATION

DAVID R. CRAIG HARFORD COUNTY EXECUTIVE



HARFORD COUNTY GOVERNMENT

Department of Planning and Zoning

May 1, 2008

Mr. Marshall Johnson Project Evaluation Division Critical Area Commission Chesapeake and Atlantic Coastal Bays 1804 West Street, Suite 100 Annapolis, Maryland 21401

Re: Bush River Village

Dear Mr. Johnson:

As per my response letter dated December 7, 2007, "all new documentation will be submitted to the Critical Area Commission for review". Enclosed is copy of the revised Bush River Village Chesapeake Bay Critical Area Planting Plan dated 4-10-2008, and revised Site P lan dated 4-14-2008. An additional Landscaping plan is currently under revision for building and parking lot landscaping.

If you have any concerns regarding this revised plan, please don't hesitate to contact me at 410-638-3103 extension 1378.

Sincerely,

Michele Bynum Critical Area Planner

RECEIVEI MAY _ 7 2008 CRITICAL AREA COMMISSION Chesapeake & Atlantic Coastal Bays

cc: Patricia Pudelkewicz, Chief, Environmental Planning Moe Davenport, Chief, Development Review Section

· Preserving Harford's past; promoting Harford's fugure ·

MY DIRECT PHONE NUMBER IS

220 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 410.638.3000 • 410.879.2000 • TTY 410.638.3086 • www.harfordcountymd.gov THIS DOCUMENT IS AVAILABLE IN ALTERNATIVE FORMAT UPON REQUEST. JAMES M. HARKINS HARFORD COUNTY EXECUTIVE

JOHN J. O'NEILL, JR. DIRECTOR OF ADMINISTRATION



J. Steven Kaii-Ziegler DIRECTOR OF PLANNING AND ZONING

HARFORD COUNTY GOVERNMENT

Department of Planning and Zoning

February 2, 2005

Ms. Dawnn McCleary Chesapeake Bay Critical Area Commission 1804 West Street, Suite 100 Annapolis, Maryland 21401

RECEIVE

FEB 4 2005

RE: Bush River Village

CHESAPEAKE BAY CRITICAL AREA CONTRESSION

Dear Ms. McCleary:

Enclosed is a copy of the plan for the Bush River Village. This proposal calls for the creation of three commercial lots. The land use designation of the property is IDA. Additionally, the property is designated as Buffer Exempt. Contained on the property is a Tributary Stream and the associated Buffer. Impacts will occur to the Buffer but will be limited to the last 50 feet of the Buffer. A Environmental Assessment (with 10% worksheet) is attached and shows that approximately 2.10 pounds of pollutant are required to be removed. Stormwater management will be provided to remove approximately 2.19 pounds of pollutants.

Additional information has been requested and includes the precise location of stormwater management facilities, drainage maps, and details on how the development will adhere to the County's regulations concerning Buffer Exempt Areas. As soon as this information is submitted, we will forward it to you.

Please review this project and return your comments to us as soon as possible. If you require any more information, please contact me at (410) 638-3103.

Sincerely,

Janey Goster

Nancy Lipski, Chief Site Plan and Permit Review

Cc Nick Walls

~ Preserving our values, protecting our future ~

MY DIRECT PHONE NUMBER IS

220 SOUTH MAIN STREET

BEL AIR, MARYLAND 21014 410-638-3000 • 410-879-2000 • TTY 410-638-3086 • www.co.ha.md.us This document is available in alternative format upon request.



Robert L. Ehrlich, Jr. Governor

Michael S. Steele

Lt. Governor

Maryland Department of Natural Resources

Tawes State Office Building 580 Taylor Avenue Annapolis, Maryland 21401 Secretary

C. Ronald Franks

W. P. Jensen Deputy Secretary

July 9, 2004

Mr. William S. Twupack Frederick Ward Associates, Inc. P.O. Box 727 Bel Air, MD 21014-0727

RE: Environmental Review for Pais Property, FWA #2041087.00, Pulaski Highway/MD Route 40, Abingdon, Harford County, Maryland.

Dear Mr. Twupack:

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. It is also important to note that the utilization of state funds, or the need to obtain a state authorized permit may warrant additional evaluations that could lead to protection or survey recommendations by the Wildlife and Heritage Service. If this project falls into one of these categories, please contact us for further coordination.

We would also like to bring to your attention that Wildlife and Heritage Service's Natural Heritage database does indicate that the following species of interest are known to occur within the vicinity of the project site:

Scientific NameCo.Sagittaria calycinaSpoCastanea dentataAmBidens bidentoides var. marianaMaBidens mitisSm

<u>Common Name</u> Spongy Lophotocarpus American Chestnut Maryland Bur-marigold Small-fruited Beggar-ticks

State Status Rare Rare Watchlist Endangered

TTY via Maryland Relay: 711 (within MD) (800) 735-2258 (Out of State) Toll Free in MD#: 1-877-620-8DNR ext. Page 2 July 9, 2004

These species could potentially occur on the project site itself, if the appropriate habitat is present. Habitat for Spongy Lophotocarpus is described as: Mudflats, ponds and marshes (Radford et al 1968). Habitat for American Chestnut is described as: Rich woods (Radford et al 1968); dry, rich, usually acid, gravelly or rocky ground, often of uplands (Hough 1983). Habitat for Maryland Bur-marigold is described as: Tidal shores (Fernald 1950); estuaries (Gleason & Cronquist 1991); sandy-gravel intertidal shorelines of fresh to brackish areas (MDNHP). Habitat for Small-fruited Beggar-ticks is described as: Brackish or fresh water marshes (Radford et al 1968); marshes, swamps or edges of creeks (MDNHP).

The populations of native plants mentioned here have declined historically and we encourage efforts that help to conserve them across the state. If you would like technical assistance regarding the conservation of these important species, please contact us.

Thank you for providing 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,

forta. Or

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

ER# Cc: 2004.0758.ha D. Brinker, DNR

ENVIRONMENTAL ASSESSMENT

FOR THE

BUSH RIVER VILLAGE SITE

FIRST ELECTION DISTRICT

HARFORD COUNTY, MARYLAND

DECEMBER 2004

FREDERICK WARD ASSOCIATES INC. 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410) 879-2090

PROJECT NO. 2041087.00

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1.0 INTRODUCTION

1.1 Purpose Of Report

The purpose of this report is to provide an environmental evaluation of the proposed shopping center on U.S. Route 40 in the Abingdon section of Harford County. This evaluation consists of a description of the existing natural features, the proposed development, pertinent issues of the Harford County, Maryland Chesapeake Bay Critical Area Management Program and measures proposed to ensure compliance with this and other relevant environmental regulations.

This assessment includes a detailed description of the existing natural features and designations associated with the subject property including land use, soils, topography, floodplains and Habitat Protection Areas. Conclusions for the project are provided in Section 6.0 of this report.

1.2 **Project Location**

The 2.17 acre site is located in Abingdon on U.S. Route 40 (west bound lane) just east of Abingdon Road in the First Election District of Harford County, Maryland. The project area is comprised of three properties identified as Parcel 434 (Lots 1 & 2), Parcel 750 and Parcel 337 on Harford County Tax Map 62. Ownership of these parcels are listed under deed reference 4163/636 (P.434) and 5674/318 (P.750) owned by 2922 Pulaski Highway L.L.C. and 1429/54 (P 337) owned by James and Theresa Thomas. Currently, the property has access from the shoulder of west bound Pulaski Highway.

2.0 SITE DESCRIPTION

2.1 Land Use

Land use of the Abingdon vicinity is predominantly Commercial/ Business. The entire subject property is located within the Chesapeake Bay Critical Area with land use designations of Intensely Developed Area (IDA). According to the Harford County Chesapeake Bay Critical Area Program,

Intensely Development Areas are areas which include any area of 20 or more contiguous acres, or the entire upland portion of a municipality within the Critical Area (which ever is less) where residential, commercial, institutional and/or industrial development is predominant and relatively little natural habitat occurs. In addition, the area is to have at least one of the following characteristics:

- 1. Housing density is equal to or greater than four dwelling units per acres;
- 2. Industrial, institutional or commercial uses are concentrated in the area: or
- 3. Public sewer and water collection and distribution system are currently serving the area and housing density is greater than three dwellings units per acres.

2

2.2 Soils

According to the <u>Soil Survey of Harford County Area Maryland</u>, (USDA/75), three soil types underlie the subject properties. These are described in Tables One and Two and depicted on the accompanying Site Plan. This Environmental Assessment has evaluated the mapping units based on the descriptions and information provided by the Soil Survey and other sources and summarized the relevant data in Table Two.

TABLE ONE: SOIL DESCRIPTIONS

Mapping Unit	Description
Сх	Cut & Fill land
DcA	Delanco silt loam (0-3% slopes)
EsB2	Elsinboro loam (2-5% slopes)

Mapping Unit – Slope	Depth to High Water Table	Depth to Bedrock	Highly Erodible	Hydric Soil
Сх	NL	NL	No	NL
DcA (0-3%)	1 ½ - 2 feet	5-20 feet	No	(1)
EsB2 (2-5%)	>4 feet	6-20 feet	Yes	No

3

TABLE TWO: SOIL CHARACTERISTICS

(1) Hydric inclusions NL = Not listed

Source: Soil Survey of Harford County, Maryland

2.3 Topography

Based on a Harford County GIS 2000 topographic survey of the subject property, the elevations of the site range from twenty-five to fifteen feet above sea level. The subject property slopes gently to the south.

According to the Federal Emergency Management Administration (FEMA) Community Panel Number 24025C0259, no 100 Year Floodplain exists on the site.

2.4 Vegetation

The site contains no areas that would qualify as forest. A second growth area exists along the rear of the property boarding the CSX Railroad property. This area contains pioneering Sweet Gum, Red Maple and dense areas of Multiflora Rose. The front portion of the property is a fallow field containing Golden Rod and Broomsedge. Along west bound US Route 40 (Pulaski Highway) the grass is periodically mowed.

4

3.0 HABITAT PROTECTION AREAS

3.1 Critical Area Buffer

The Harford County Critical Area Program has established a 100-foot buffer landward from tidal waters, tidal wetlands and tributary streams. This buffer is typically expanded beyond 100 feet to include contiguous sensitive areas such as steep slopes, hydric soils or highly erodible soils. According to the county program, the purpose of this buffer is to serve the following functions:

A. Provide for the removal or reduction of sediments, nutrients, and potentially harmful or toxic substances in runoff entering the Bay and its tributaries;
B. Minimize the adverse effects of human activities on wetlands, shorelines, stream banks, tidal waters, and aquatic resources.

C. Maintain an area of transitional habitat between aquatic and upland communities,

D. Maintain the natural environment of streams; and

E. Protect riparian wildlife habitat.

The accompanying Site Plan has established the correct location of the 100 foot Critical Area Buffer. This Buffer has been expanded on site to include contiguous sensitive areas such as waters of the United States. No other contiguous sensitive areas were identified by this study.

The following table is a summary of the various natural features and/or land use designations associated with the subject property.

NATURAL FEATURES/DESIGNATIONS TABLE

Feature/Designation	Identified	Not Identified
Critical Area	x	· ·
Buffer	X	
Tidal Wetlands		X
Nontidal Wetlands		X
Hydric Soils		X
Highly Erodible Soils	X	
Slopes over 15%	· · ·	X
100 Year Floodplain	·	X
Riparian Forest		X
Interior Dwelling Bird Habitat		X
Colonial Water Bird Nesting Site		X
Historic Waterfowl Staging Area		X
Rare, Threatened or Endangered Species		Х
Natural Heritage Area		X
Anadromous Fish Propagation Water		X
Submerged Aquatic Vegetation	• •	X
Areas of Shoreline Erosion		X
Waters of the U.S.	X	

. 5

3.2 Wetlands

The subject properties were surveyed for the presence of nontidal wetlands as defined by both the Harford County Development Regulations and the U.S. Army Corps of Engineers. Areas meeting these definitions were field flagged for location by survey and have been plotted on the accompanying Site Plan. The Bush River Village Site does not contain areas that qualify as jurisdictional nontidal wetlands according to the Corps of Engineers methodologies. However, there is an intermittent stream system on the western portion of the site.

A review of the National Wetland Inventory (NWI) maps completed by the U.S. Fish and Wildlife Service was conducted for this project. The NWI map for the subject property reveals no areas of nontidal wetlands.

An on-site investigation revealed the NWI maps to be correct with no nontidal wetlands on the properties. An intermittent stream channel was identified along the western property line. The intermittent stream channel is shown on the accompanying Site Plan has been field delineated and located by survey. The U.S. Army Corps of Engineers has not approved the Jurisdictional Determination on the subject property at this time. A copy of the relevant NWI map has been included as Appendix 6.4.

3.3 Threatened/Endangered Species

Frederick Ward Associates contacted the Maryland Department of Natural Resources Natural Heritage Program to request any information on file concerning the existence of known Federal or State threatened or endangered plant or wildlife species on or near this project site. According to their response dated July 9, 2004, (Appendix 6.5) they have no records of rare, threatened or endangered species occurring within the vicinity of the project. The U.S. Fish and Wildlife Service responded by letter dated May 24, 2004 that they have no record of rare, threatened or endangered species in this location, (See Appendix 6.5).

6

3.4 Areas of Significant Plant & Wildlife Habitat Value

Based on aerial photographs, information supplied by the Maryland Department of Natural Resources Natural Heritage Program, Harford County Office of Planning and Zoning and site inspections, there are no listed natural wildlife corridors or significant plant and wildlife habitat within this property. No areas of colonial waterbird nesting sites, aquatic historic waterfowl staging and concentration areas, forested areas potentially utilized by forest interior dwelling birds, Natural Heritage Areas or plant and wildlife habitat determined to be of local significance are located within the subject property.

3.5 Anadromous Fish Propagation Waters

Bush Creek is the closest Anadromous Fish Propagation Waters at 325 feet away from the property. This area is documented for spawning of anadromous fish species such as White Perch, Striped Bass, etc. The temporal restriction for in-water construction activities required by the Critical Area Management Program is March 01 to June 15 of each year. The project area does not contain areas that qualify as anadromous fish propagation waters.

4.0 VARIANCE APPLICATION

4.1 **Proposed Development**

The proposed development for the subject property is to construct a shopping center. This entire new project area is located within the IDA. A new entrance off of westbound U.S. Route 40 will access the site. The shopping center will be served by extensions to existing county water and sanitary lines in the area. No work is proposed within nontidal wetlands, waters of the United States and their buffers or other Habitat Protection Areas. Stormwater management for quality control will be provided in accordance with the 10% Rule.

This site evaluation has determined the following Critical Area development calculations based on the preliminary layout prepared by Frederick Ward Associates.

Total Site Area: Land Use Designation:	2.17 acres Intensely Developed Area (IDA)
Chesapeake Bay Critical Area: IDA: RCA: Proposed Use: Existing Forested: Proposed Clearing: Remaining Forest:	2.17 acres 2.17 acres 0.00 acres Commercial 0.00 ac. 0.00 ac. 0.00 ac.
Existing Impervious Surface: Asphalt: 0.03 ac. Building: 0.03 ac. Shed: 0.01 ac.	0.07 ac. (3%)
Proposed Impervious Surface: Asphalt: 0.83 ac. Building: 0.46 s.f.	1.29 ac. (59%)
Proposed Impacts within IDA: Proposed Impacts within RCA: Area of Expanded Buffer: Area of Expanded Buffer Impact: Proposed Nontidal Wetland Disturband Proposed 25 foot Wetland Buffer Dist.: Proposed Waters of the U.S. Disturbar	0.00ac.

4.2 Impact Assessment

The following is a summary of the Critical Area Program requirements of development within the Intensely Developed Area (IDA). These requirements include Habitat Protection Areas and other standard limitations. The proposed development does not seek to disturb sensitive soils or slopes that exceed 15 percent. The proposed development will have a 59 percent impervious surface level as is shown on the accompanying plan.

The Harford County Stormwater Management Regulations require that pollutant loading associated with new development or redevelopment in an IDA be reduced by a minimum of ten percent (10%) from predevelopment levels through the use of on-site stormwater management/best management practices or similar measures located offsite. The proposed development will utilize a combination of treatment methods to provide the required 10% Rule compliance. Preliminary calculations are provided below and demonstrate that approximately 2.10 pounds of keystone pollutant loadings will be required for removal. The preferred method for pollutant reduction will be a combination of wet pond, dry swale and infiltration trench. Preliminary calculations indicate the proposed stormwater management quality control system will remove 2.19 lbs. of pollutants from the on-site runoff. The final design of the water quality system will be included with the engineering plans for the site development and will be reviewed and approved by the Harford County Department of Public Works and Planning and Zoning. Appendix B includes the 10% Rule Calculations per the "Technical Guide for 10% Compliance."

Additional Habitat Protection Areas of the Bush River Village Site include waters of the United States and buffer. There will be NO environmental impacts as a result of the proposed development. The property contains no forest cover. There are no known rare plant and animal species found within the project area.

According to the Harford County Critical Area Program, Intensely Developed Areas are where residential, commercial, institutional, and/or industrial uses predominate and where relatively little natural habitat occurs. The Program also sets out seven goals as summarized below:

- A. Reduce the impacts of existing development.
- B. New or redevelopment should reduce pollutant loadings by 10%.
- C. Require cluster development.
- D. Establish permeable areas in vegetation.
- E. Maintain or establish new public access to the shore.
- F. Locate port facilities near existing ones.

G. Maintain, and where possible, enhance biological resources.

9

4.3 Habitat Protection Areas

The Harford County Critical Area Program identifies five types of Habitat Protection Areas (HPA's). The proposed project does contain two of the HPA areas. The following is a review of the various requirements for protection of the HPA's and how these requirements do or do not apply to this project.

4.3.1 Buffer Program Element

In accordance with the requirements of the Harford County Program, a 100-foot naturally vegetated habitat protection buffer is to be located landward of all tidal wetland/waters.

The Harford County Chesapeake Bay Critical Area Program has established a 100-foot Critical Area buffer landward from tidal waters, tidal wetlands and tributary streams. According to the Program, "a Buffer of at least one hundred (100) feet shall be established in natural vegetation." In December of 2001, the Harford County Planning and Zoning Environmental Division staff conducted a field visit. They identified the onsite intermittent waters of the U.S. system as being a tributary stream. This area is found within a Buffer Exempt area of the Critical Area. This area will receive a 50 foot buffer instead of the normal 100 foot buffer off of tributary stream areas.

The Harford County Chesapeake Bay Critical Area Program requires the basic Buffer to be expanded to include, "contiguous sensitive areas on the parcel whose development or disturbance may impact streams, wetlands, or other aquatic environments". Sensitive areas are defined as hydric soils and soils with hydric properties, slopes greater than 15 percent and highly erodible soils (greater than 5 percent slope with a K value of greater than 0.35). A 50 foot buffer is expanded on this property to include the on site intermittent waters of the United States.

4.3.2 Nontidal Wetlands Protection Program Element

The proposed development area has been evaluated for the presence of nontidal wetlands utilizing the Soil Survey descriptions, National Wetland Inventory Maps and site inspection. As previously stated, this site contains no nontidal wetlands or open water areas. The National Wetland Inventory (NWI) Maps prepared by the U.S. Fish and Wildlife Service (USF&WS) dated 1981 did not identify any wetlands site within the development area. A field inspection of the proposed development area did reveal the presence of an intermittent stream channel along the western property line.

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4.3.3 Threatened and Endangered Species Protection Program Element

The Maryland Department of Natural Resources, Forest, Park and Wildlife Services response concerning endangered species states that they have records of the American Chestnut (Castanea dentata/ state rare) and Spongy Lophotocarpus (Sagittaria calycina / state rare), Maryland Bur-marigold (Bidens bidentoides/ state watch list) and Small-fruited Beggar-ticks (Bidens mitis/ endangered) have occurring within the vicinity of the project site. These species are found within forested areas, tidally influenced waters or shallow water and marsh areas. Since there are no forested areas or tidally influenced waters on the subject property, it is highly unlikely that any of these plant species exist on site. A copy of the initial correspondence has been included within this report.

The U.S. Fish and Wildlife Service did not have any records of rare, threatened or endangered species in this location,

4.3.4 Plant and Wildlife Habitat Protection Program Element

Currently, this project contains no forested areas. The proposed development is located immediately adjacent to west bound U.S. Route 40 and is not part of a larger riparian system. No wildlife corridor exists within the area proposed for disturbance. There is no indication of colonial waterbird nesting sites, rare, threatened or endangered species, historic waterfowl staging and concentration areas, Natural Heritage Areas or other areas of a significant plant and wildlife habitat.

4.3.5 Anadromous Fish Propagation Waters Protection Program Element

The nearest water body is Bush Creek, which is designated as an Anadromous Fish Propagation Water due to the documented spawning of anadromous fish species such as White Perch, Striped Bass, etc. The temporal restriction for in-water construction activities required by the Critical Area Management Program is March 01 to June 15 of each year. However, no water dependent facilities are planned as part of this development. This project is located more than 300 feet from the closet tidal wetlands/waters.

4.4 Habitat Protection Program

The following is a description of the measures that have been proposed to mitigate the impacts to the HPA from the granting of the proposed variance. These include plat and deed restrictions to protect the waters of the United States and 50 foot buffers.

By evaluating the topography of the up slope drainage area and the specific configuration of the onsite waters of the United States, it appears that the contributing drainage area is limited to runoff from B & O Railroad. The up-slope drainage area near the road starts as undefined and contributes surface flow into the waters of the United States system. This development activity will collect all onsite runoff at a storm water management facility located at the northeast property corner. No disturbance to the onsite waters of the United States channel will occur.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

Frederick Ward Associates, Inc. has evaluated the proposed wavier application for the Bush River Village Site and has reached the following conclusions. The proposed wavier is in compliance with the provisions of the Harford County Chesapeake Bay Critical Area Management Program as defined by Section 267-41.1H of the Harford County Development Regulations in that it meets the following requirements.

(1) The waiver request is the result of the unique configuration of the lot and waters system and is not the result of actions of the applicant. The current site design was largely dictated by the parcel size, existing sewer easement and waters on the property.

(2) As was previously stated in this report, based on the criteria for buffer establishment prepared by the Critical Area Program, the proposed intermittent waters of the Unites States (tributary stream) area and 50 foot buffer will be sufficient to protect the hydrologic regime and environmental integrity of the identified waters of the United States. There are no other identified Habitat Protection Areas within this portion of the development.

(3) The identified Habitat Protection Areas include intermittent waters of the United States (tributary steam) and 50 foot buffer. These areas have been incorporated into the development plan by reconfiguring the project to the extent possible to protect these sensitive features.

(4) This waiver will have no impact on the growth allocation of the County.

5.2 Recommendations

This report makes the following recommendations with respect to ensuring compliance with the provisions of the Critical Area Program, protection of the environmental integrity of the Critical Area District. These include:

1. The proposed limits of clearing should be field staked and visibly marked prior to clearing and grading activities. Any incursions into these protected areas by the contractor should be immediately restored.

2. Stormwater management quality control measures should be designed to remove pollutants per the Best management Practices as recommended in the "Applicant's Guide for 10% Rule Compliance-Urban Stormwater Quality Guidance for the Maryland Chesapeake Bay Critical Area in IDA and the Technical Guide for 10% Rule Compliance-Urban Stormwater Quality Guidance for the Maryland Chesapeake Bay Critical Area in Intensively Developed Areas (IDA)". A minimum of 2.10 pounds of pollutant must be removed. The current plan proposes a reduction of 2.19 pounds. Additional consideration to controlling uncontrolled runoff from existing developments such as U.S. Route 40 should be incorporated into the final stormwater management plans. These measures may greatly improve the existing water quality entering Bush Creek.

3. All standard Sediment control measures should be implemented as called for by the approved Sediment Control Plan as required by the Harford County Department of Public Works and Natural Resource Conservation Service. This Plan should minimize disturbed areas and provide daily stabilization measures to minimize the potential for sediment pollution.

APPENDICES 6.0

SELECTED REFERENCES

Appendix 6.1

Selected References

"Harford county Development Regulations Section 267-41.1 Chesapeake Bay Critical Area Requirements" Harford County, Maryland (As Amended).

"Maryland Freshwater Fish Spawning Survey" A Report by the Maryland Department of Natural Resources Fisheries Division, 1985

Harford County, MD Chesapeake Bay Critical Area Management Program., June, 1988., Obtained from the Harford County Department of Planning, 220 S. Main St., Bel Air, MD 21014

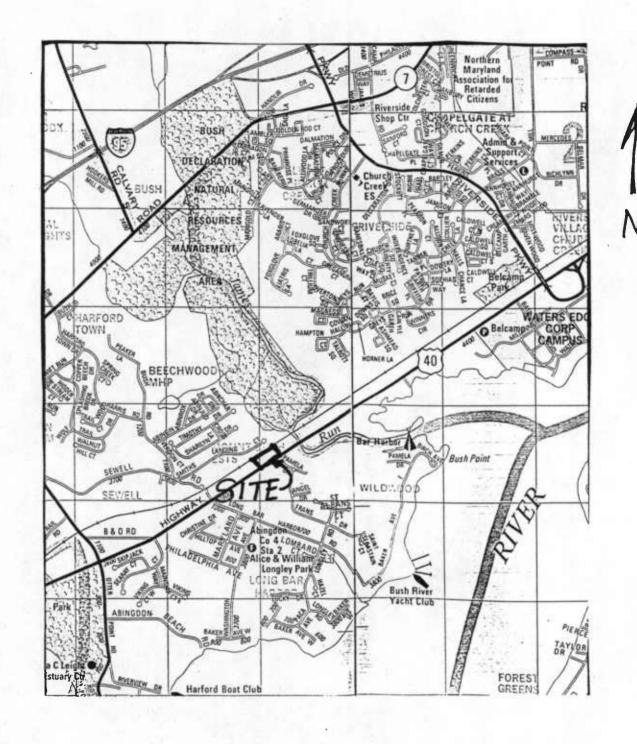
Harford County Development Regulations, As Amended through September 1, 1990. Obtained from the Harford County Office of Planning and Zoning, Bel Air, Maryland 21014

<u>Soil Survey of Harford County Area, Maryland.</u>, U.S.D.A.-S.C.S., in cooperation with the Maryland Agricultural Extension Service, 1975

Orth, Robert et al., "Distribution of Submerged Aquatic Vegetation In The Chesapeake Bay And Tributaries And Chincoteague Bay - 1986, VIMS, U.S. EPA, U.S. Geological Survey, and Maryland DNR

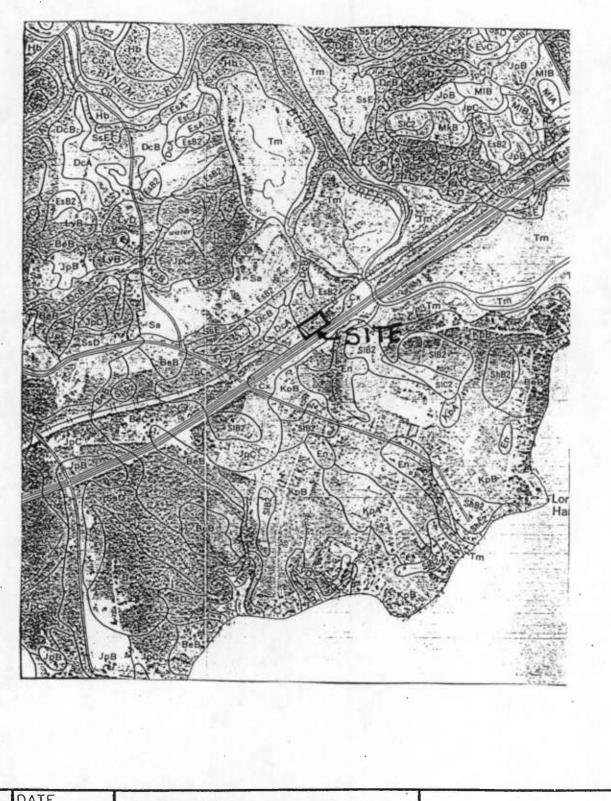
U.S. Fish and Wildlife Service National Wetland Inventory (NWI) Maps, Edgewood Area, Maryland, 1982.

VICINITY MAP



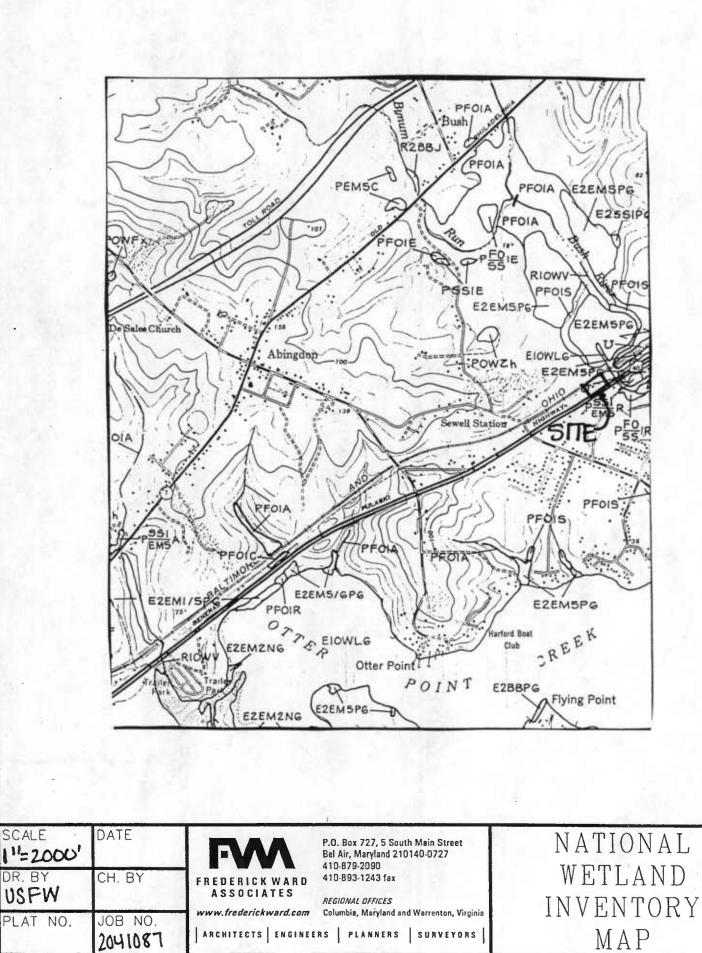
SCALE 1"= 2000' DR. BY A.D.C.	DATE 2000 CH. BY	FFVAA FREDERICK WARD ASSOCIATES	P.O. Box 727, 5 South Main Street Bel Air, Maryland 210140-0727 410-879-2090 410-893-1243 fax REGIONAL OFFICES	VICINITY Map	
PLAT NO.	JOB NO. 2041087	www.frederickward.com	Columbia, Maryland and Warrenton, Virginia RS PLANNERS SURVEYORS	МАГ	

SOILS MAPS

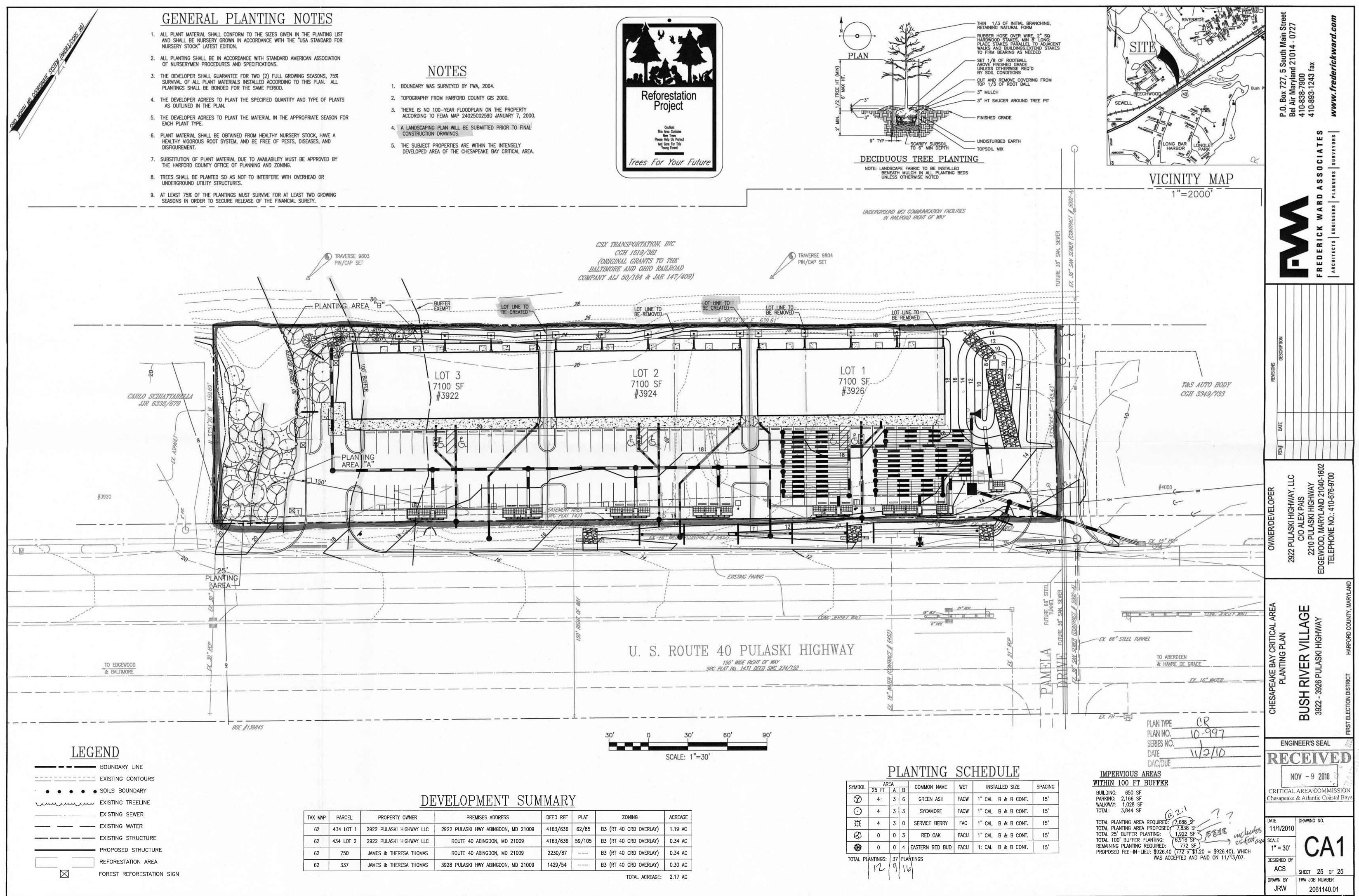




NWI MAP



CORRESPONDENCE



PREMISES ADDRESS	DEED REF	PLAT	ZONING	ACREAGE
ULASKI HWY ABINGDON, MD 21009	4163/636	62/85	B3 (RT 40 CRD OVERLAY)	1.19 AC
UTE 40 ABINGDON, MD 21009	4163/636	59/105	B3 (RT 40 CRD OVERLAY)	0.34 AC
UTE 40 ABINGDON, MD 21009	2230/87		B3 (RT 40 CRD OVERLAY)	0.34 AC
ULASKI HWY ABINGDON, MD 21009	1429/54		B3 (RT 40 CRD OVERLAY)	0.30 AC
		- N - R	TOTAL ACREAGE:	2.17 AC

			1		
\otimes	4	3	6	GREEN ASH	F
\odot	4~	3,	3	SYCAMORE	F
斑	4	3	0	SERVICE BERRY	
\bigcirc	0	0	3	RED OAK	F
*	0	0	4	EASTERN RED BUD	F
TOTAL PL	TAL PLANTINGS: 37 PLANTINGS				