



**U.S. Army Corps
of Engineers**

Baltimore District
PN-25-09

Public Notice

**In Reply to Application Number
NAB-2007-66063-M35 (Waldorf Crossing
Property/Western Parkway Phases 2 & 3)**

Comment Period: February 3, 2025, to March 06, 2025

THE PURPOSE OF THIS PUBLIC NOTICE IS TO INFORM INTERESTED PARTIES OF THE PROPOSED ACTIVITY AND TO SOLICIT COMMENTS. NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT A PERMIT WILL BE ISSUED AT THIS TIME.

This District has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 USC 1344), as described below:

APPLICANT:

WRI West Land Development, Inc.
12480 Mattawoman Drive
PO BOX 548
Waldorf, Maryland 20601

Charles County Government
P.O. Box 2150
La Plata, Maryland 20646

WATERWAY AND LOCATION OF THE PROPOSED WORK:

The proposed work is located in the tributaries to Mattawoman Creek, at the site located near the intersection of Mattawoman Drive and U.S. Route 301, Waldorf, Charles County, Maryland. (Latitude 38.821667; Longitude -76.835833).

OVERALL PROJECT PURPOSE:

To redevelop the 140-acre Waldorf Crossing property into a mixed use residential, office and retail project and to construct the Phase 2 and 3 extensions of Western Parkway

PROJECT DESCRIPTION:

The proposed project involves construction of Western Parkway extension, road crossings, and mixed-use development temporarily impacting 871 square feet (sq. ft.) nontidal wetlands and 48 Linear feet (lf.) of stream and permanently impacting 52,770 sq. ft. nontidal wetlands and 4,460 sq. ft. of streams. The proposed project includes temporary nontidal wetlands impacts and stream channel impacts for the sewer pipe installation. Proposed permanent impacts to stream and wetlands would be due to multiple road crossings. Additional proposed permanent wetland impacts would be due to the deceleration lane, parking areas, and CMP culvert replacement.

EFFECTS ON AQUATIC RESOURCES:

Impact	Wetlands (sf)		Streams sf/lf	
	Temporary	Permanent	Temporary	Permanent
Western Parkway (Road Crossing 1)		34,848 sq. ft.		1,082 sq. ft.
Road Crossing #2	0	0	0	1,170 sq. ft.
Road Crossing #3	0	11,235 sq. ft.	0	2,133 sq. ft.
Culvert Replacement	0	4,995 sq. ft.	0	75 sq. ft.
Sewer Pipe Installation	871 sq. ft.	0	48 lf.	0
Parking Area	0	1,692	0	0
Total Impacts	871 sq. ft.	52,770 sq. ft.	48 lf.	4,460 sq. ft.

LEAD FEDERAL AGENCY:

The United States Army Corps of Engineers (Corps), as the lead federal agency, is responsible for all coordination pursuant to applicable federal authorities.

APPLICANT'S PROPOSED AVOIDANCE, MINIMIZATION, AND COMPENSATORY MITIGATION:

As part of the planning process for the proposed project, steps were taken to ensure the avoidance and minimization of impacts to aquatic resources to the maximum extent practicable based on the existing site conditions and previously authorized work. The applicant has purchase of 2.62 credits from the Port Tobacco II Consolidated Wetland Mitigation Site as part of the previous permit action for this project. The applicant proposes to additional onsite mitigation for project impacts through a combination of on-site and off-site measures. The applicant is proposing to create approximately 0.66 acres of nontidal wetlands onsite and to restore approximately 1,185 linear feet of streams.

CORPS EVALUATION REQUIREMENTS:

This project will be evaluated pursuant to Corps Regulatory Program Regulations (33 CFR Parts 320-332). The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonable may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors, which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economic, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, and consideration of property ownership and in general, the needs and welfare of the people. The evaluation of the impact of this project will also include application of the Clean Water Act Section 404(b)(1) Guidelines promulgated by the Administrator, United States Environmental Protection Agency.

ENDANGERED SPECIES:

A preliminary review of this application indicates that the proposed work will have no effect federally listed threatened or endangered species or their critical habitat, pursuant to Section 7 of the Endangered Species Act, as amended. The project activities are proposed in non-tidal waters, which has the potential to have no effect for National Marine Fisheries Service (NMFS) NMFS-PRD protected species. The project location and vicinity is not mapped as critical habitat for any known federally-listed threatened or endangered species under USFWS' jurisdiction. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

ESSENTIAL FISH HABITAT:

The Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA), as amended by the Sustainable Fisheries Act of 1996 (Public Law 04-267), requires all federal agencies to consult with the NMFS on all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely affect Essential Fish Habitat (EFH), including species of concern, life cycle habitat, or Habitat Areas of Particular Concern. The project site lies in or adjacent to EFH as described under MSFCMA for managed species under the MSFCMA.

The Baltimore District has made a preliminary determination that the project will have no effect on EFH and that mitigative measures are not required to minimize adverse effects on EFH at this time. This determination may be modified if additional information.

HISTORIC RESOURCES:

Pursuant to Section 106 of the National Historic Preservation Act of 1966 and applicable guidance, the Corps has reviewed the latest published version of the National Register of Historic Places and initially determined that no registered properties listed as eligible for inclusion, therein, are located at the site of the proposed work. The Corps has made the preliminary determination that the proposed project has no potential to cause effects on historic properties. The Corps final eligibility and effect determination will be based on coordination with the State Historic Preservation Office as appropriate and required, and with full consideration given to the proposed undertaking's potential direct and indirect effects on historic properties within the Corps' identified permit area.

TRIBAL RESOURCES:

Section 106 of the National Historic Preservation Act also requires federal agencies to consult with federally recognized American Indian tribes that attach religious and cultural significance to historic properties that may be affected by the agency's undertaking. Corps Tribal Consultation Policy mandates an open, timely, meaningful, collaborative, and effective deliberative communication process that emphasizes trust, respect, and shared responsibility. The policy further emphasizes that, to the extent practicable and permitted by law, consultation works toward mutual consensus and begins at the earliest planning stages before decisions are made and actions taken. The Corps final eligibility and effect determination will be based on coordination with interested tribes, in accordance with the Corps current tribal standard operating procedures as appropriate and required, and with full consideration given to the proposed undertaking's potential direct and indirect effects on tribal resources.

MODIFICATION OF CIVIL WORKS PROJECTS: 33 USC 408 (SECTION 408):

All Section 408 proposals will be coordinated internally at the United States Army Corps of Engineers. The Section 408 decision will be issued along with the Section 404 decision. Please see the following link for more information regarding Section 408: <https://www.nab.usace.army.mil/Missions/Regulatory/Section-408-Requests/>.

WATER QUALITY CERTIFICATION:

The applicant is required to obtain a water quality certification in accordance with Section 401 of the Clean Water Act.

COASTAL ZONE MANAGEMENT PROGRAMS:

Where applicable, the applicant has certified in this application that the proposed activity complies with and will be conducted in a manner consistent with the approved Coastal Zone Management Program. By this public notice, we are requesting the State concurrence or objection to the applicant's consistency statement.

The applicant must obtain any state or local government permits which may be required.

SUBMISSION OF COMMENTS:

The Corps of Engineers is soliciting comments from the public; federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments provided will become part of the public record for this action and are subject to release to the public through the Freedom of Information Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Written comments concerning the work described above related to the factors listed above or other pertinent factors must be received by the United States Army Corps of Engineers, Baltimore District within the comment period specified above through postal mail at the address below or electronic submission to the project manager email address below. Written comments should reference the Application Number NAB-2007-66063-M35. We also encourage you to use the Regulatory Request System to submit comments by visiting rrs.usace.army.mil.

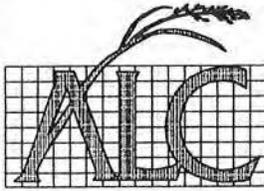
PUBLIC HEARING REQUESTS:

Any person who has an interest which may be adversely affected by the issuance of this permit may request a public hearing. The request, which must be in writing, must be received within the comment period as specified above to receive consideration. Also, it must clearly set forth the interest which may be adversely affected by this activity and the manner in which the interest may be adversely affected. The public hearing request may be submitted by electronic mail or mailed to the following address:

Ms. Lamuelle L. Coleman
Lamuelle.L.Coleman@usace.army.mil
U.S. Army Corps of Engineers, Baltimore District
Regulatory Branch
2 Hopkins Plaza
Baltimore, Maryland 21201-2930

It is requested that you communicate this information concerning the proposed work to any persons known by you to be interested, who did not receive a copy of this notice.

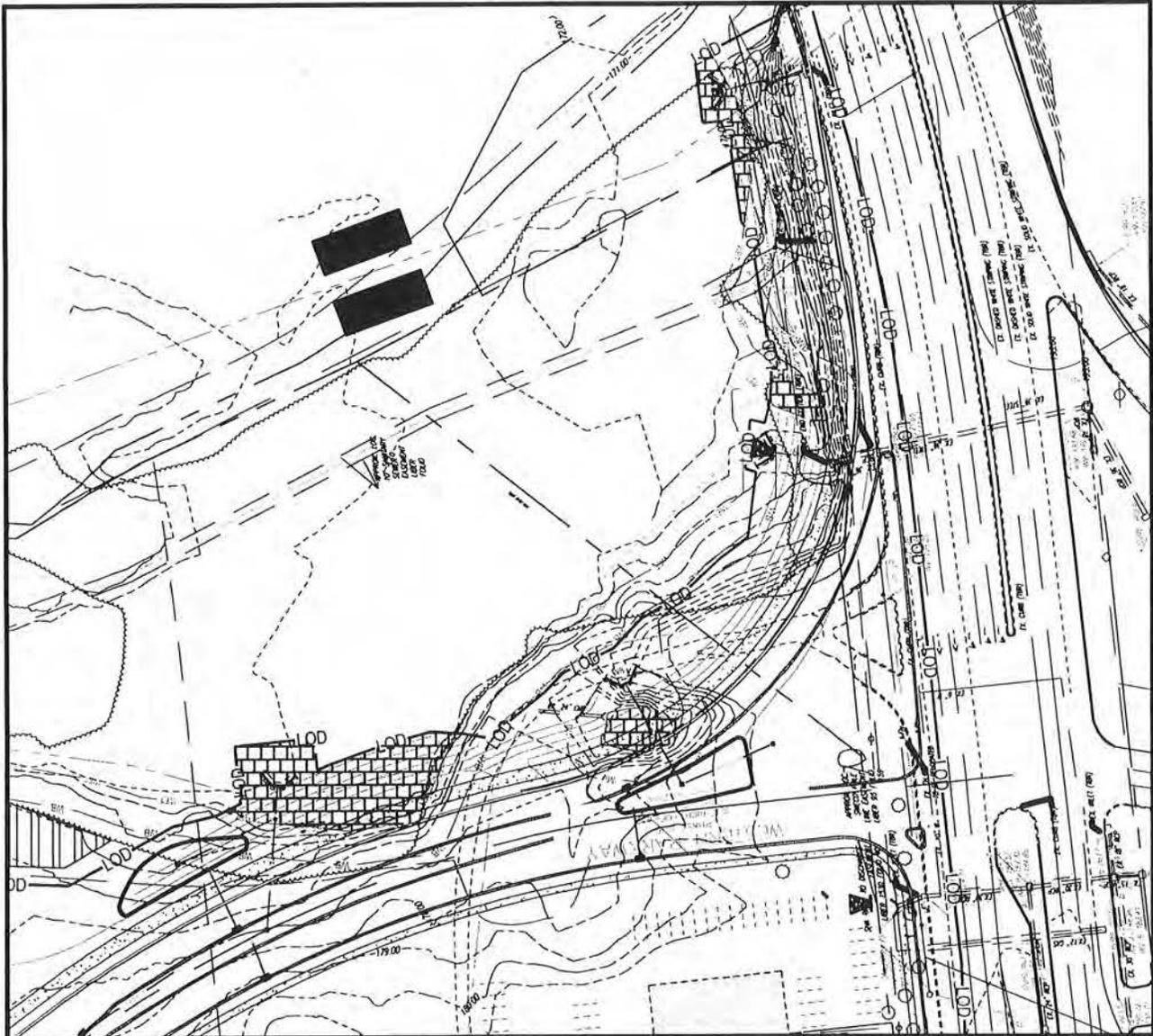
General information regarding the Corps' permitting process can be found on our website at <https://www.nab.usace.army.mil/Missions/Regulatory.aspx>. This public notice has been prepared in accordance with Corps implementing regulations at 33 CFR 325.3. If you have any questions concerning this specific project or would like to request a paper copy of this public notice, please contact Lamuelle Coleman at 443-853-2051 and/or at Lamuelle.L.Coleman@USACE.Army.mil. This public notice is issued by the Chief, Regulatory Branch.



AMERICAN LAND CONCEPTS
 238 B MAIN STREET
 REISTERSTOWN, MARYLAND 21136
 PHONE: (410)-526-2688



north
 Scale 1"=120'

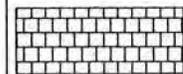


IMPACTS:

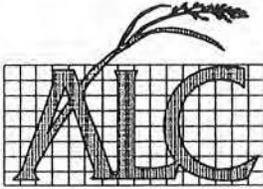
Impacts shown above associated with the proposed Western Parkway will result in 12,319 SF of non-tidal wetland Impacts, 21,356 SF of Impacts to non-tidal wetland buffer, 50,252 SF of Impacts to the floodplain and 1,105 SF of Impacts to a man made pond.

Revised Impact Sheet #1

**WALDORF CROSSING PROPERTY
 and WESTERN PARKWAY, PHASE III**

 = WETLAND IMPACT/
 OPEN WATER IMPACT

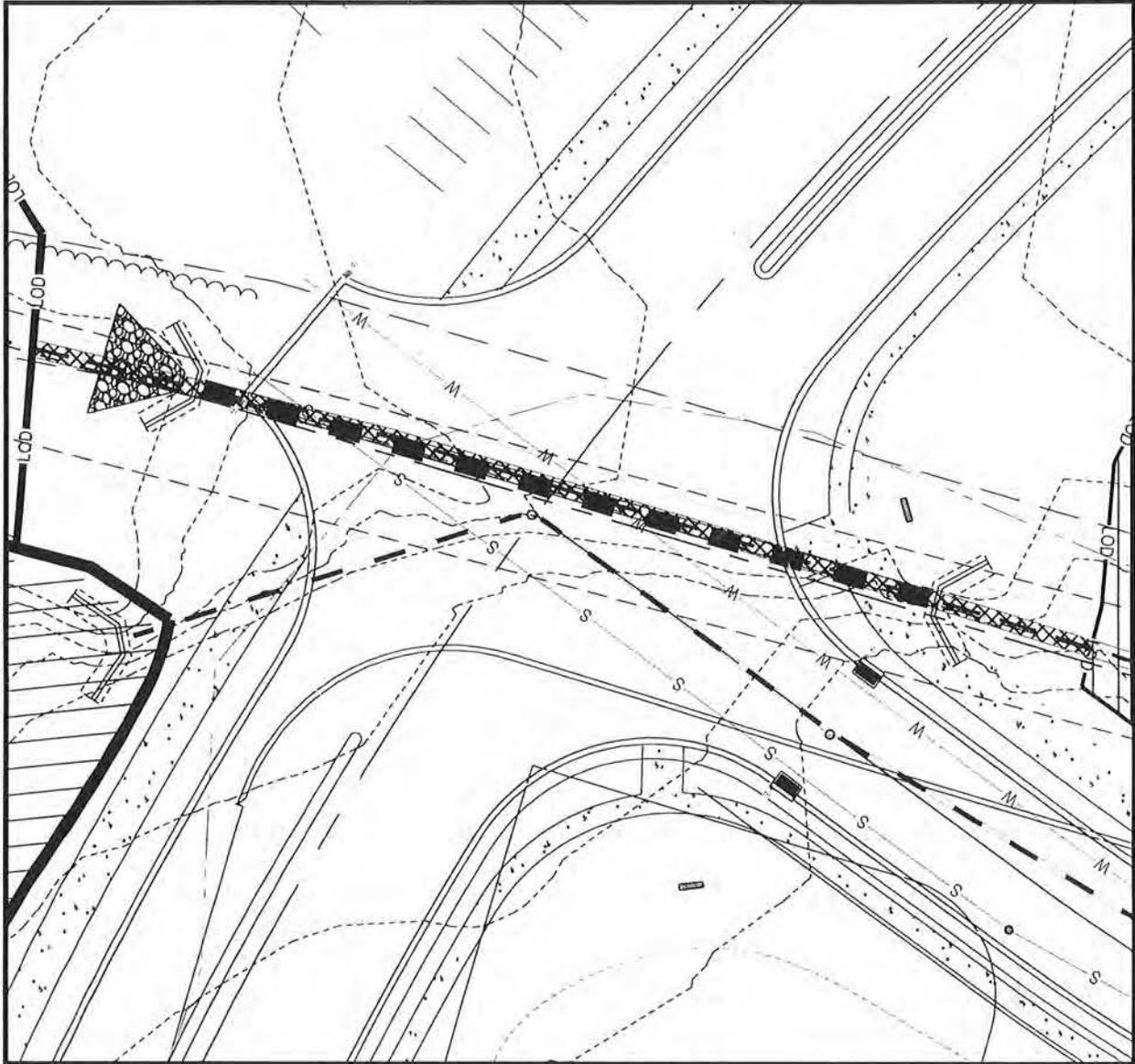
Charles County, Maryland
 June 2008, Revised July 2010, August 2012,
 September 2013



AMERICAN LAND CONCEPTS
238 B MAIN STREET
REISTERSTOWN, MARYLAND 21136
PHONE: (410)-526-2688



north
Scale 1"=40'

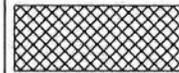


IMPACTS:

Impacts shown above associated with the proposed Western Parkway will result in 268 LF (1,074 SF) of Impact to Intermittent stream.

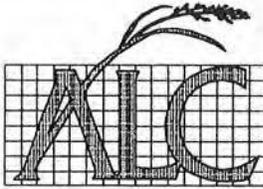
Revised Impact Sheet #2

**WALDORF CROSSING PROPERTY
and WESTERN PARKWAY, PHASE III**



= STREAM IMPACT

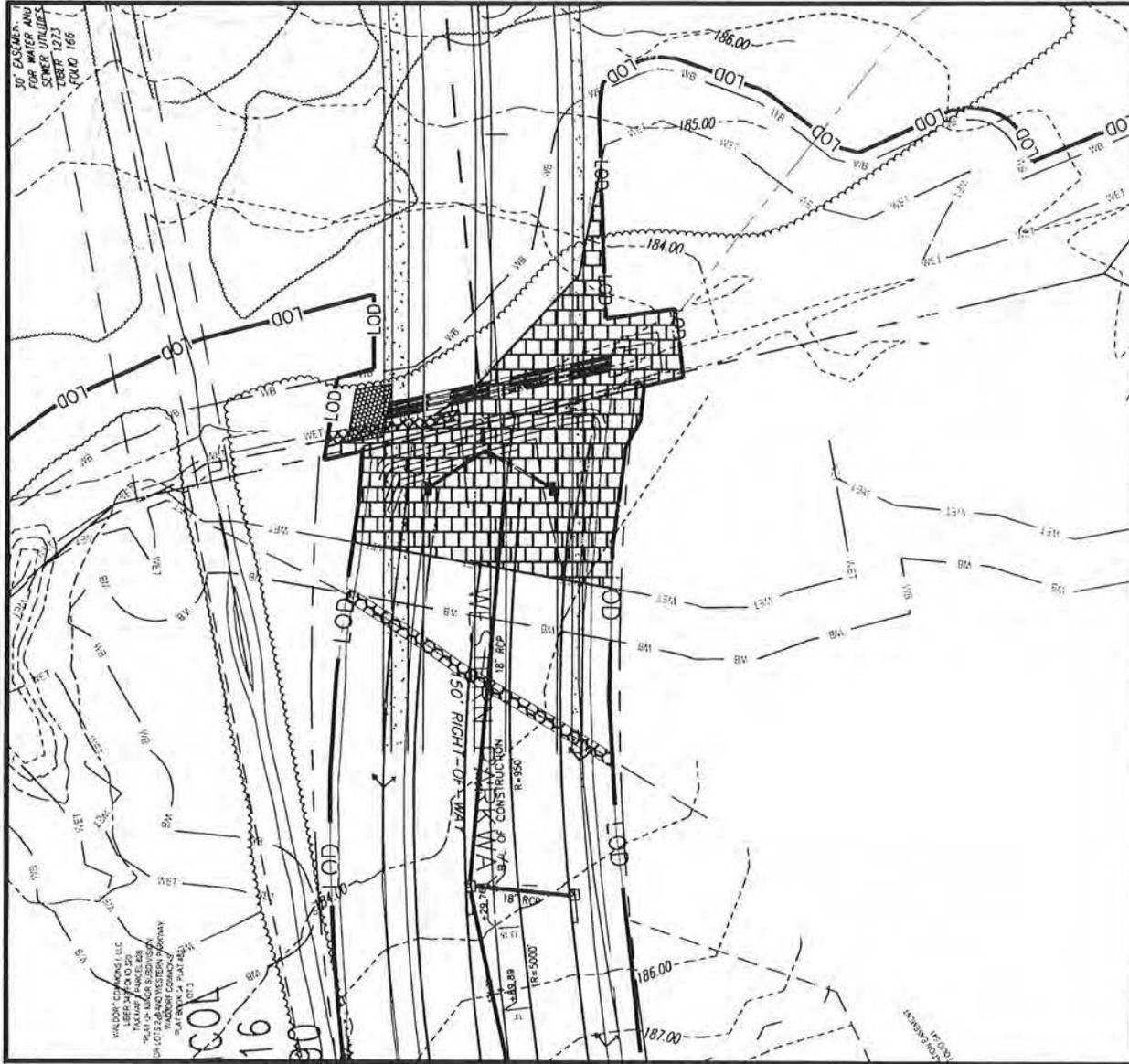
Charles County, Maryland
June 2008, Revised July 2010, August 2012,
September 2013



AMERICAN LAND CONCEPTS
 238 B MAIN STREET
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north
 Scale 1"=80'



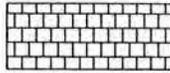
IMPACTS:

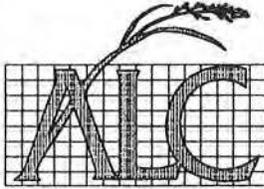
Impacts shown above associated with the proposed Western Parkway will result in approximately 14,040 SF of impact to wetlands, 8,450 SF of impact to wetland buffer, and 63 LF (330 SF) of intermittent stream. There will also be approximately 153 LF (918 SF) of ephemeral channel impacted by the construction of Western Parkway.

Revised Impact Sheet #4

**WALDORF CROSSING PROPERTY
 and WESTERN PARKWAY, PHASE III**

Charles County, Maryland
 June 2008, revised July 2010, August 2012,
 September 2013

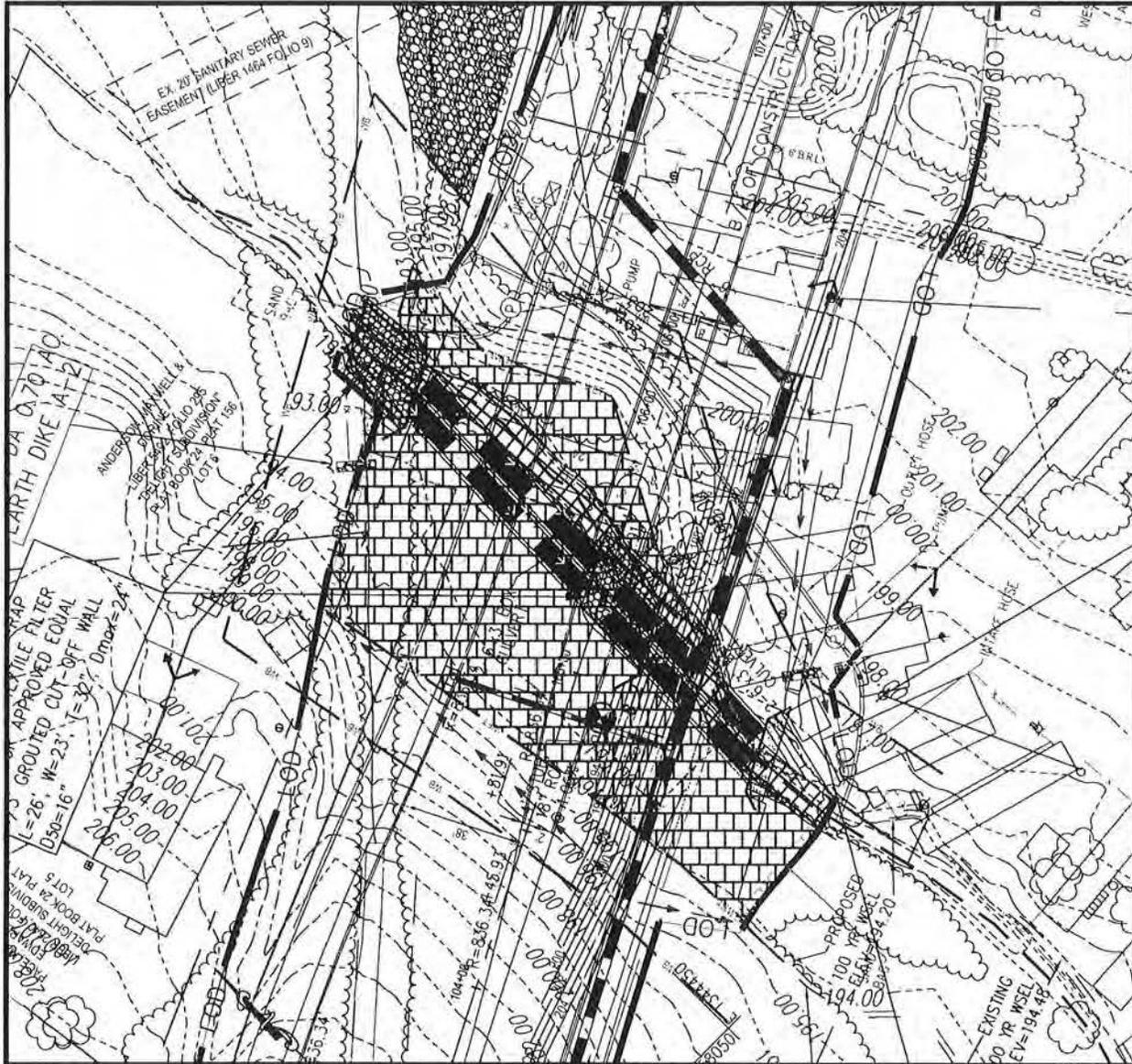
-  = WETLAND IMPACT/
OPEN WATER IMPACT
-  = STREAM IMPACT
-  = EPHEMERAL CHANNEL



AMERICAN LAND CONCEPTS
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north
 Scale 1"=50'

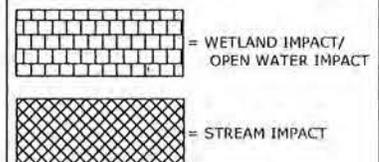


IMPACTS:

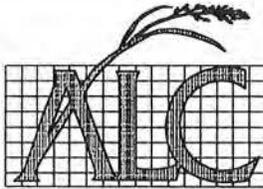
Impacts shown above associated with the proposed Western Parkway will result in 11,235 SF of Impact to wetlands, 22,521 SF of Impact to wetland buffer, 214 LF (2,133 SF) of Impact to perennial stream.

Revised Impact Sheet #5

**WALDORF CROSSING PROPERTY
 and WESTERN PARKWAY, PHASE III**



Charles County, Maryland
 June 2008, revised July 2010, August 2012,
 September 2013

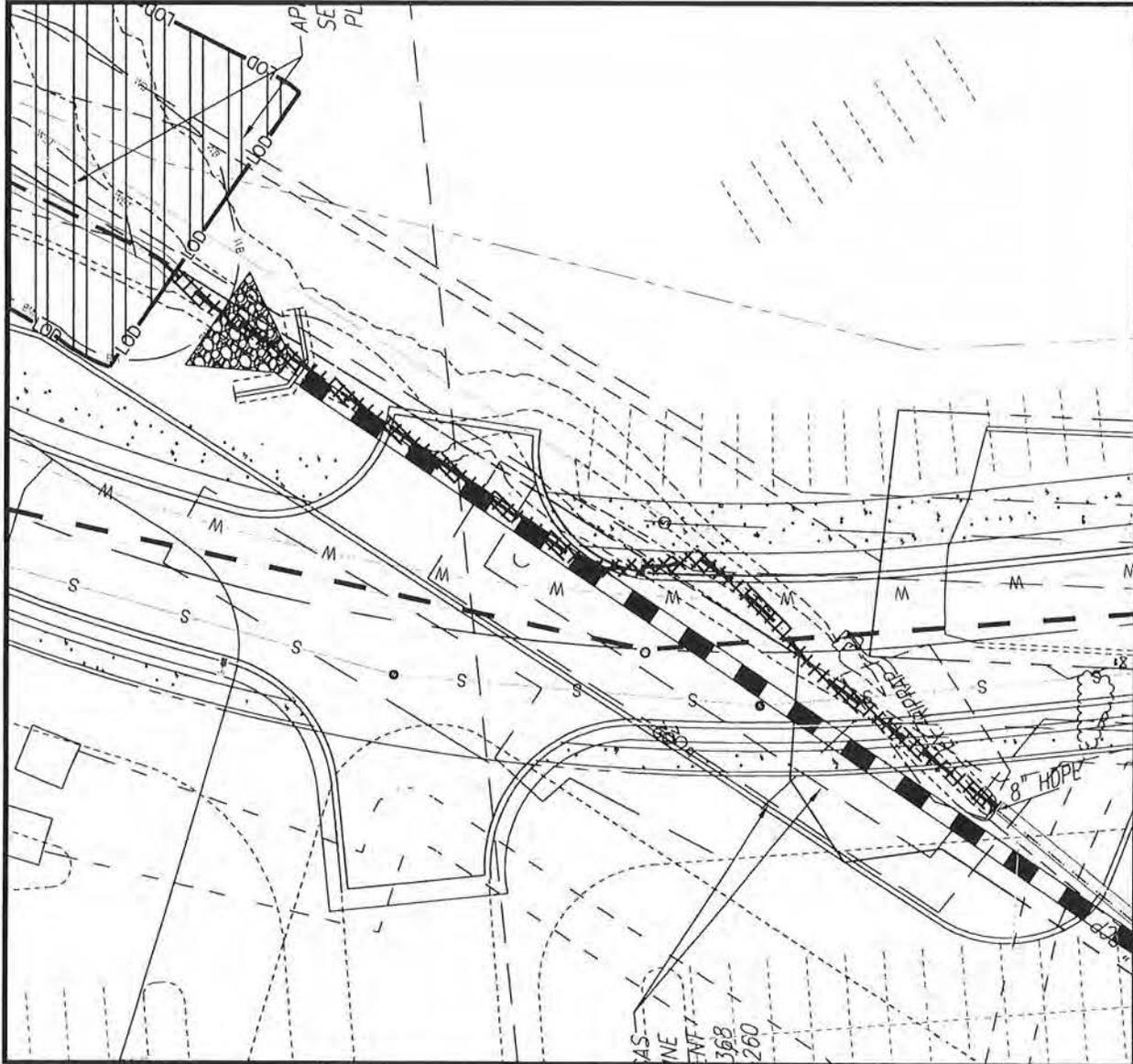


AMERICAN LAND CONCEPTS
 238 B MAIN STREET
 REISTERSTOWN, MARYLAND 21136
 PHONE: (410)-526-2688



north

Scale 1"=30'

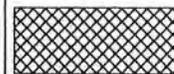


IMPACTS:

Impacts shown above are associated with the proposed Matawoman Drive extension will result in impacts to 447 SF of nontidal wetland buffer and 246 LF (983 SF) of intermittent stream.

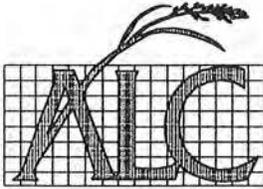
Revised Impact Sheet #6

**WALDORF CROSSING PROPERTY
 and WESTERN PARKWAY, PHASE III**



= STREAM IMPACT

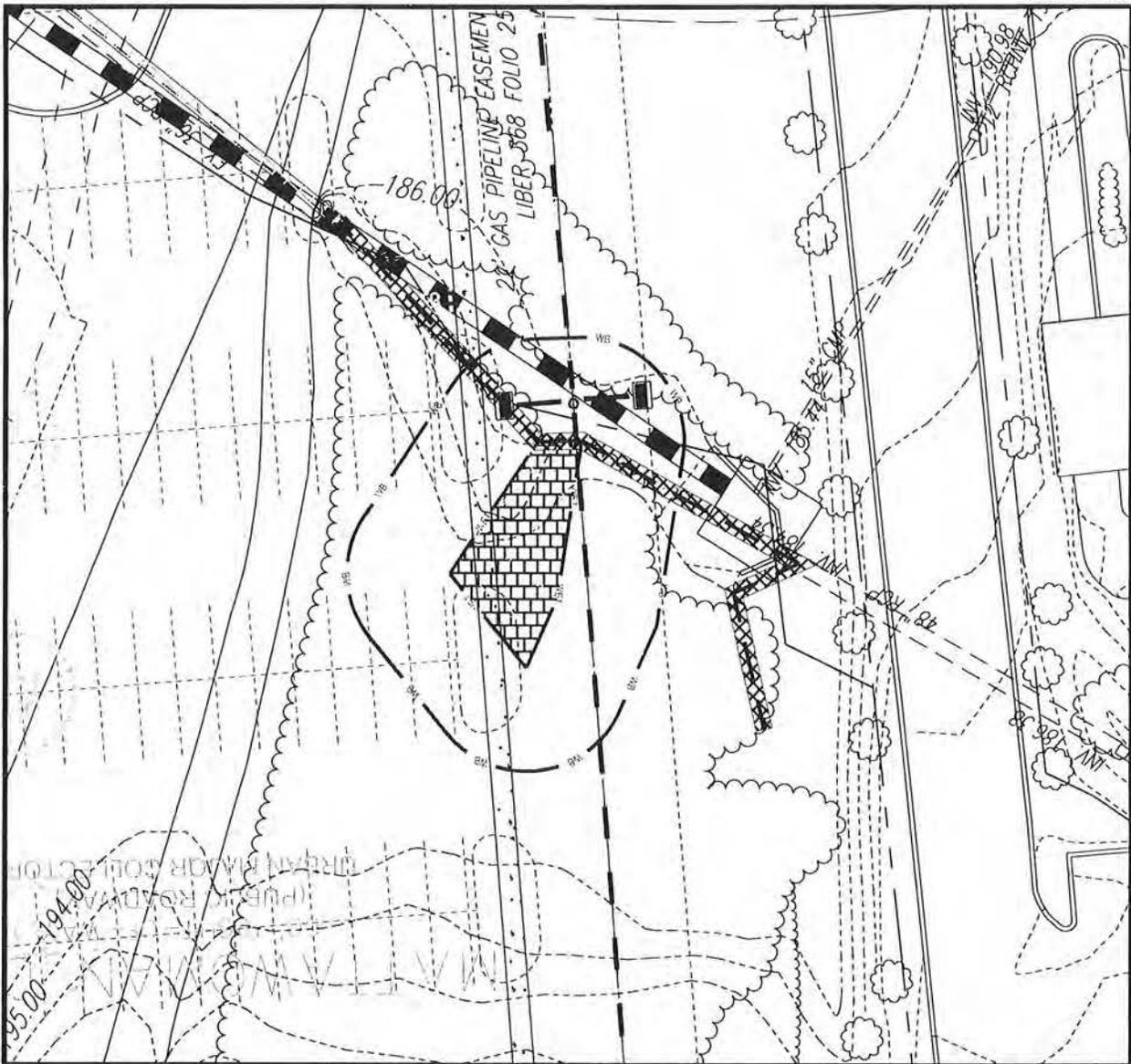
Charles County, Maryland
 June 2008, revised July 2010, August 2012,
 September 2013



AMERICAN LAND CONCEPTS
 238 B MAIN STREET
 REISTERSTOWN, MARYLAND 21136
 PHONE: (410)-526-2688



north
 Scale 1"=40'

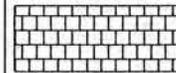


IMPACTS:

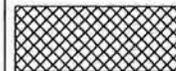
Impacts shown above are associated with the proposed unnamed road. It will result in impacts to 937 SF of nontidal wetlands, 5,151 SF of nontidal wetland buffer, and 195 LF (781 SF) of intermittent stream.

Revised Impact Sheet #7

**WALDORF CROSSING PROPERTY
 and WESTERN PARKWAY, PHASE III**



= WETLAND IMPACT/
 OPEN WATER IMPACT



= STREAM IMPACT

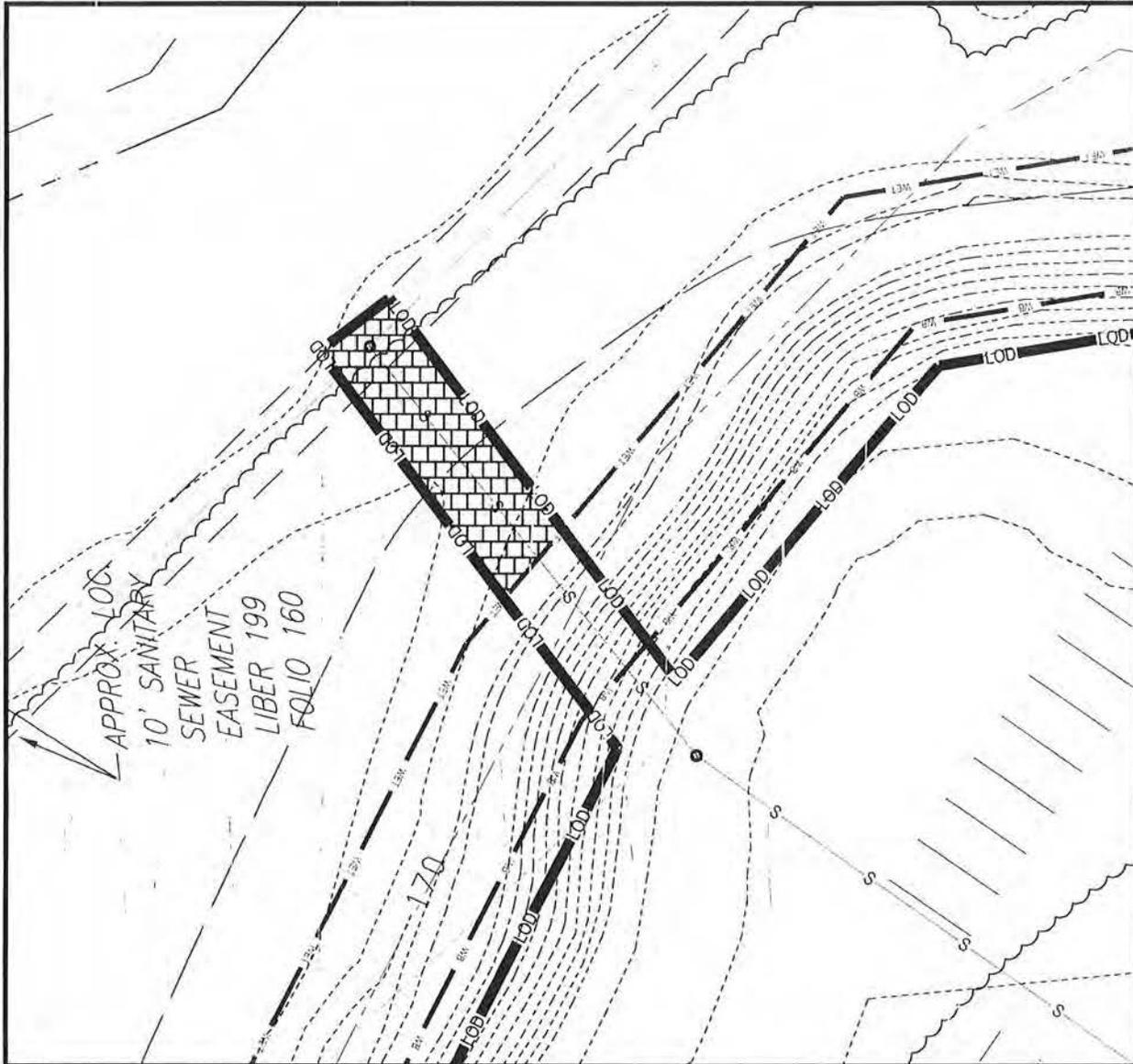
Charles County, Maryland
 June 2008, revised July 2010, August 2012,
 September 2013



AMERICAN LAND CONCEPTS
 238 B MAIN STREET
 REISTERSTOWN, MARYLAND 21136
 PHONE: (410)-526-2688



north
 Scale 1"=30'

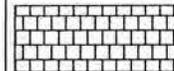


IMPACTS:

Impacts shown above associated with connecting into an existing sewer line will result in temporary impacts to 871 SF of nontidal wetlands, 410 SF of nontidal wetland buffer, and 507 SF of floodplain.

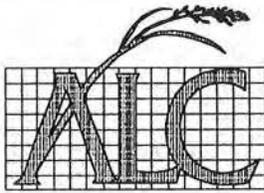
Revised Impact Sheet #8

**WALDORF CROSSING PROPERTY
 and WESTERN PARKWAY, PHASE III**



= WETLAND IMPACT/
 OPEN WATER IMPACT

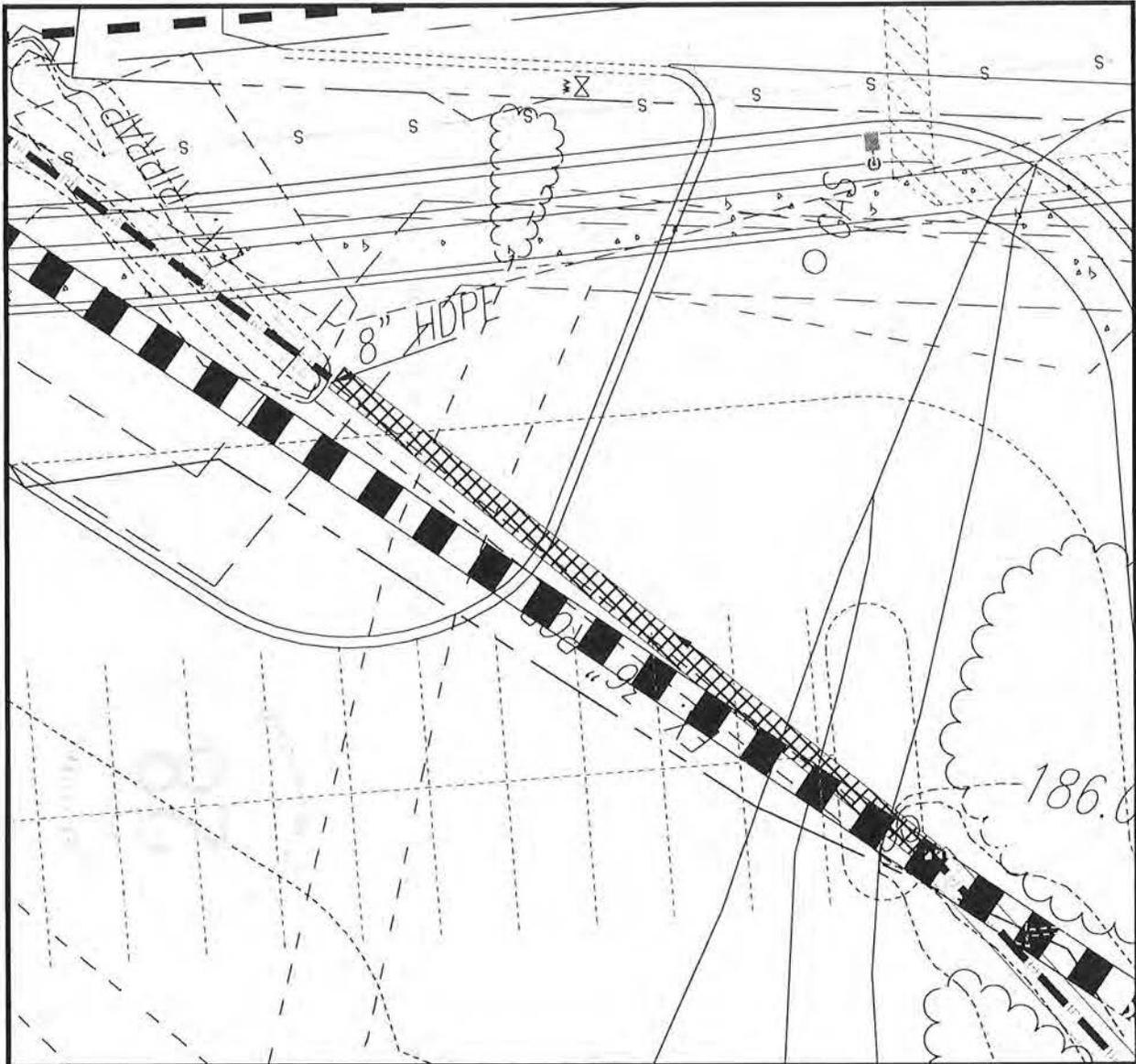
Charles County, Maryland
 June 2008, revised July 2010, August 2012,
 September 2013



AMERICAN LAND CONCEPTS
238 B MAIN STREET
REISTERSTOWN, MARYLAND 21136
PHONE: (410)-526-2688



north
Scale 1"=20'

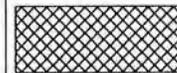


IMPACTS:

Impacts shown above associated with proposed Waldorf Crossings Development will result in Impacts to 94 LF (290 SF) of previously Impacted Intermittent stream. This impact currently exists as a 36" culvert.

Revised Impact Sheet #13

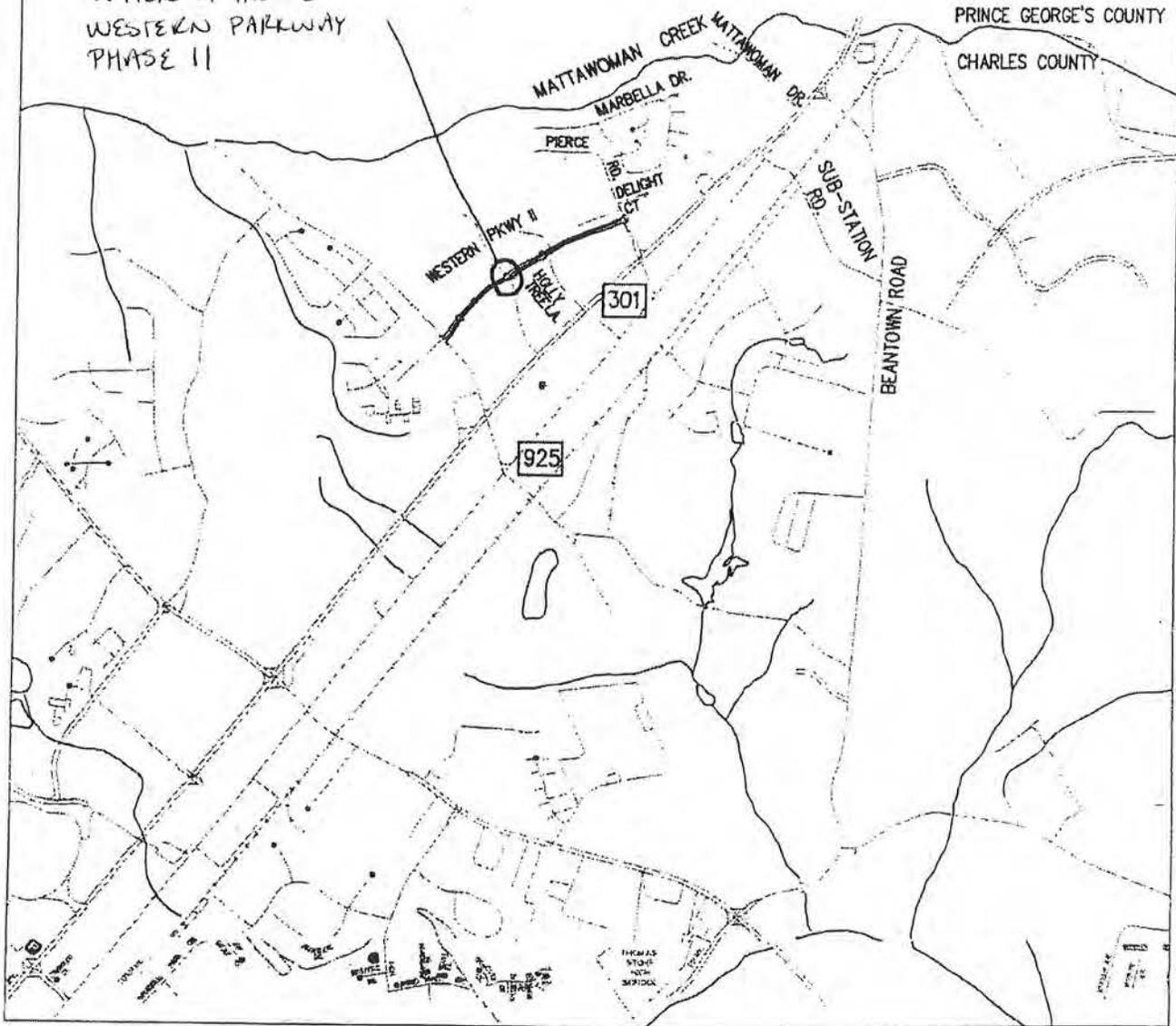
**WALDORF CROSSING PROPERTY
and WESTERN PARKWAY, PHASE III**



= STREAM IMPACT

Charles County, Maryland
June 2008, revised July 2010, August 2012,
September 2013

DISPLAY FOR IMPACTS TO
WATERS OF THE US.
WESTERN PARKWAY
PHASE II



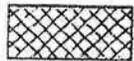
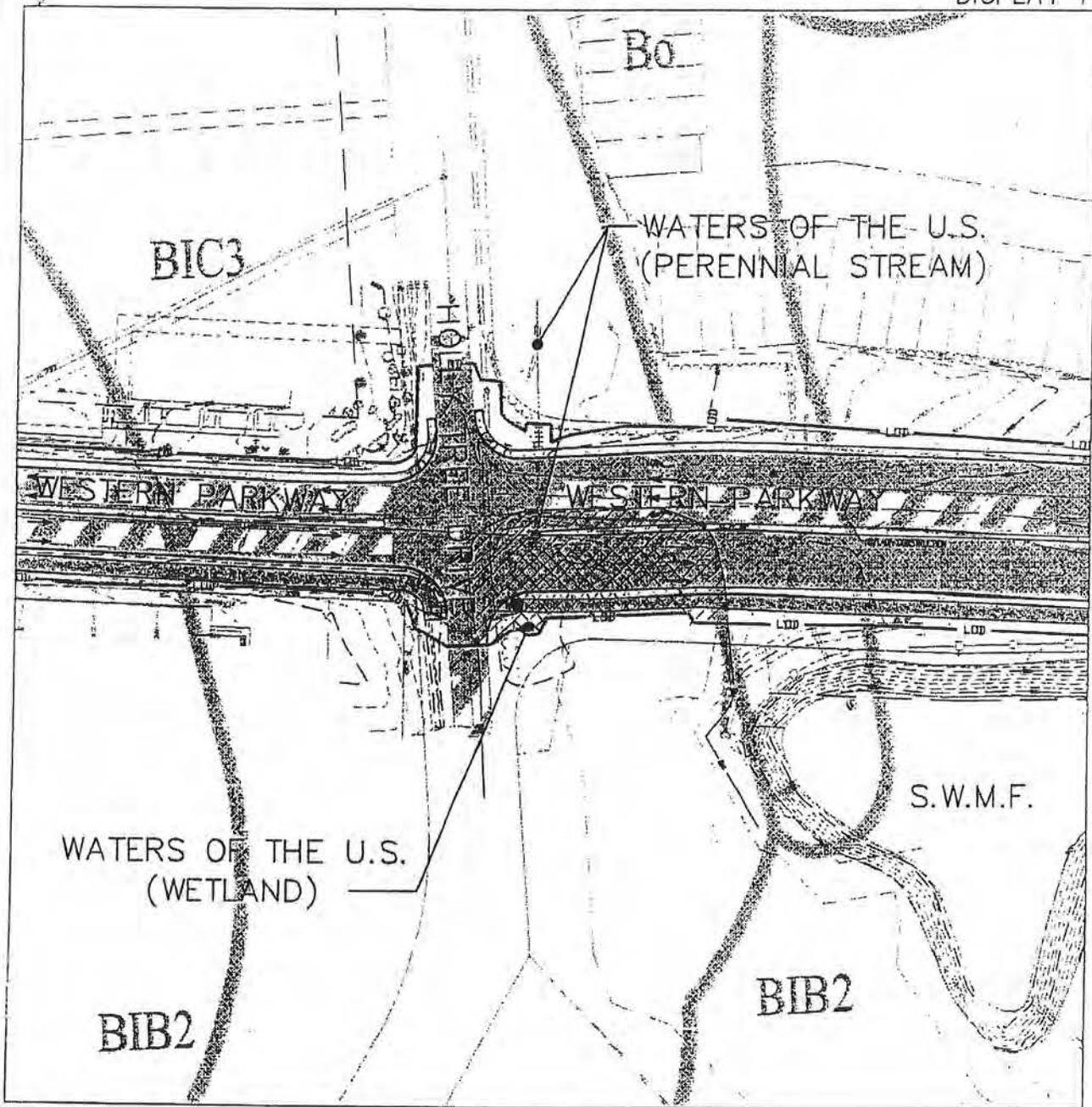
07-NF-0177/200762422



AB CONSULTANTS, INC.
9450 ANNAPOLIS ROAD
LANHAM, MARYLAND 20706
PHONE: (301) 306-3091
FAX: (301) 306-3092

VICINITY MAP FOR
WESTERN PKWY PH.II

SCALE: 1" = 1,000'



IMPACTS TO WETLANDS: 4,995 SF (0.11 AC)



IMPACTS TO WETLAND BUFFERS: 6,222 SF (0.14 AC)



IMPACTS TO STREAMS: 25 LF



AB CONSULTANTS, INC.

9450 ANNAPOLIS ROAD
 LANHAM, MARYLAND 20706
 PHONE: (301) 306-3091
 FAX: (301) 306-3092

DISPLAY FOR IMPACTS TO
WATERS OF THE U.S.
WESTERN PARKWAY
PHASE II

SCALE: 1"=100'

COE# XX-XXXXX-XX

MDE# 07-NT-177/200762422

FINAL STREAM MITIGATION/RESTORATION PLAN FOR THE WALDORF CROSSING/WESTERN PARKWAY PHASE 2 AND 3 PROJECT

Charles County, Maryland
September 2013

TOPOGRAPHIC MAP



INDEX

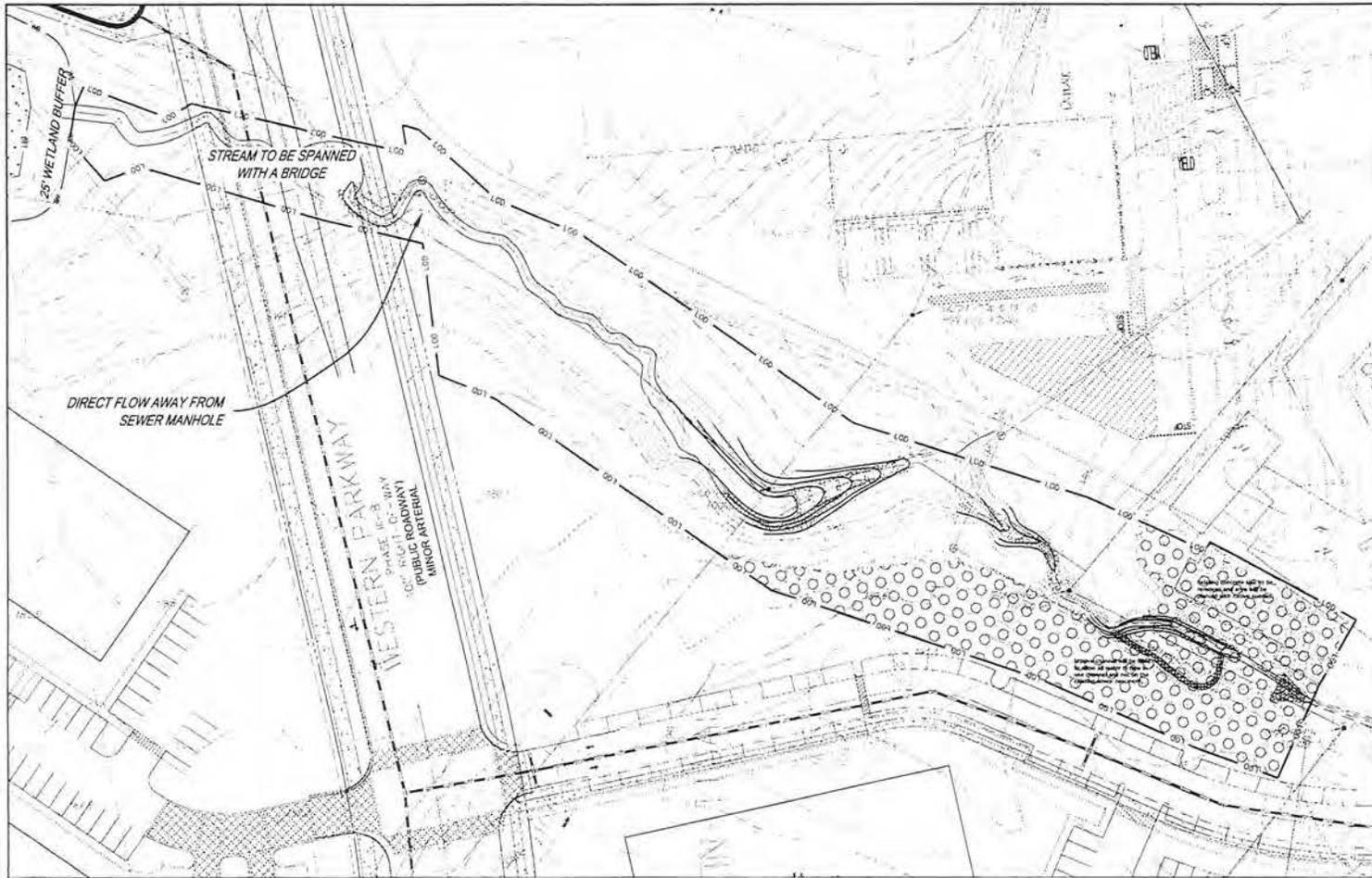
Sheet 1	Title Sheet
Sheet 2	Existing Conditions
Sheet 3	Stream 1 Mitigation/Riparian Buffer Enhancement Plan
Sheet 4	Stream 2 Mitigation/Riparian Buffer Enhancement Plan
Sheet 5	Cross Sectional Views & Standard Details
Sheet 6-7	Notes & Details

Survey provided by:
BOHLER
16701 Melford Scalesport, Suite 310
Rowe, Maryland 22175
301.805.4500

Owner/Applicant
WRI WEST LAND
DEVELOPMENT, INC.
1240 WATTANOMAN DRIVE
WALDORF, MARYLAND 20601
AND
CHARLES COUNTY GOVERNMENT
P.O. BOX 2150
LA PLATA, MARYLAND 20646

PREPARED BY:





PROPOSED:

The proposed restoration will begin down gradient of the culvert at the streamhead where the channel splits into two paths. The restoration will continue the length of the stream with either drop structures, streambank armoring, removing debris, concrete pad, invasive species, and revegetate the RPZ associated with the stream with native species. The sewer easement will not be planted and has not been included in the total riparian buffer enhancement acreage.

The restoration will utilize three (3) separate step-pool structure within the stream channel. As shown above, the structures will vary in length depending on the location and the stream morphology. The drops will be approximately 6" and pools will range from 6' to 8' in length. The step-pool structures will act as a grade controlling device while creating a natural riffle-pool scenario that dissipates water velocity to minimize sediment movement.

The stream banks will be armored as necessary to prevent future stream migration. A small section of the stream will be realigned in one location to move the stream away from an existing sewer manhole. The stream will be cut and filled as necessary to obtain the proposed elevation to create a natural streambed. The step-pool structures and streambank armoring will be built with armor stone approximately 500 to 1,000 lbs in size.

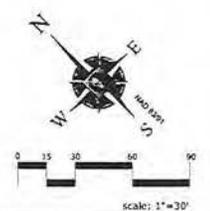
The total stream/riparian buffer restored will be approximately 1.45 AC. All trash and debris will be removed from the streambanks and riparian area as well as a concrete pad immediately adjacent to the stream head. Invasive species will be removed and all vegetative areas removed to allow access to the stream for construction will be replanted and restored to natural conditions with native species. In addition, approximately 0.46 +/- acres of cleared land will be planted with native species. Again, the sewer easement will not be planted and has not been included in the total riparian buffer enhancement acreage.

These plans are for design and permitting purposes only, not for construction purposes.



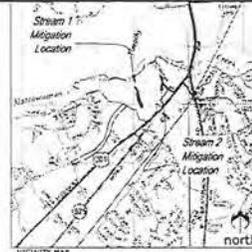
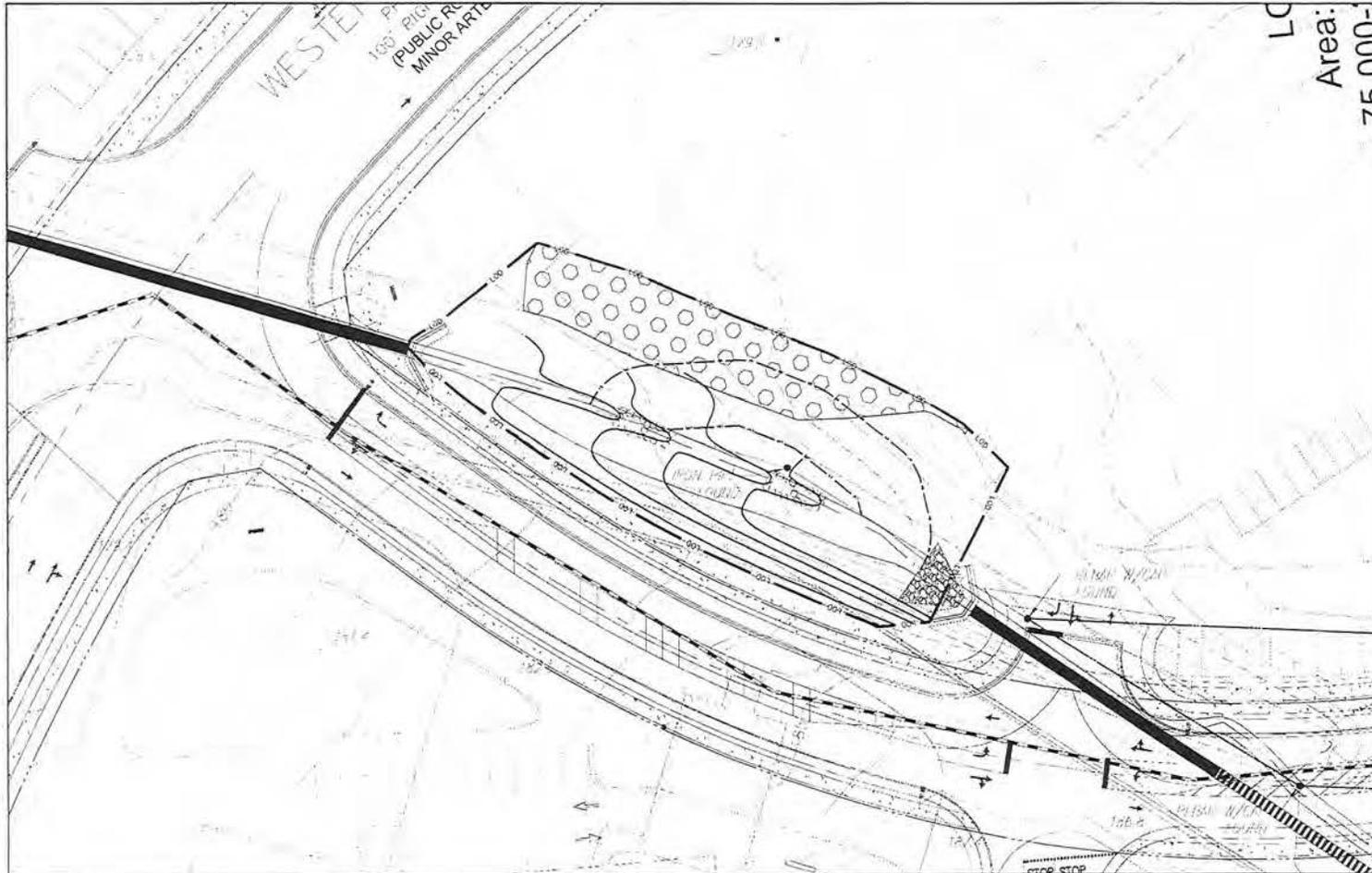
LEGEND

- Property Boundary
- Existing Wetlands w/25FT Buffer
- Treeline
- Existing Stream/Stream Bank
- Existing Contours
- Proposed Contours
- Area For Invasive Species Removal and Supplemental Plantings
- Non-Forested Area To Be Planted
- Proposed Stream Alignment
- Step-Pool Rock Structure
- Streambank Armoring
- Mitigation LOD



NO.	DATE	REVISIONS

<p>BOHLER 1631 Lakeshore Blvd. Ste. 319 Rock, MD 20850 301.388.6500</p>	<p>CONTRACTOR</p>
<p>AIC AMERICAN LAND CONCEPTS 1631 Lakeshore Blvd. Ste. 319 Rock, MD 20850 301.388.6500</p>	<p>CONSULTANT</p>
<p>CHARLES COUNTY OFFICE OF PLANNING AND DEVELOPMENT 1000 W. MARKET STREET WASHINGTON, MD 20786 301.251.2000</p>	<p>OWNER</p>
<p>WYN WEST LAND DEVELOPMENT, INC. 1000 W. MARKET STREET WASHINGTON, MD 20786</p>	<p>OWNER</p>



LEGEND

- Property Boundary
- Existing Wetlands w/25FT Buffer
- Treeline
- Existing Stream/Stream Bank
- Existing Contours
- Proposed Contours
- Area For Invasive Species Removal and Supplemental Plantings
- Non-Forested Area To Be Planted
- Proposed Stream Alignment
- Step-Pool Rock Structure
- Streambank Armoring
- Mitigation LOD

DATE:	09/20/11
SCALE:	1"=20'
PROJECT:	STREAM MITIGATION WESTERN PARKWAY, PHASE 3
REVISION:	
DESIGNER:	AMERICAN LAND CONCEPTS
CLIENT:	CHARLES COUNTY GOVERNMENT
PROJECT NO.:	11-000-0008
DATE:	09/20/11
SCALE:	1"=20'
PROJECT:	STREAM MITIGATION WESTERN PARKWAY, PHASE 3
REVISION:	
DESIGNER:	AMERICAN LAND CONCEPTS
CLIENT:	CHARLES COUNTY GOVERNMENT
PROJECT NO.:	11-000-0008

DATE	REVISIONS

BOHLER
 1870 Lakewood Boulevard, Suite 110
 Bowie, Maryland 20715
 301.800.0008

AMERICAN LAND CONCEPTS
 228 BLISS STREET
 RESTON, VA 20191
 PHONE: 703.255.5088



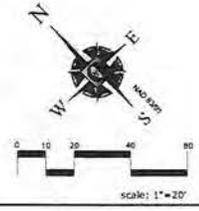
PROPOSED:

The proposed restoration will begin down gradient of the culvert at the streamhead. The restoration will continue approximately 155 LF with either drop structures; removal of debris, existing asphalt parking facility in the RPZ, and invasive species; and revegetate the RPZ associated with the stream with native species. The sewer easement will not be planted and has not been included in the total riparian buffer enhancement acreage.

The restoration will utilize two (2) separate step-pool structure within the stream channel. As shown above, the structures will be approximately 24 FT in length. The drops will be approximately 6" and pools will be approximately 8 FT in length. The step-pool structures will act as a grade controlling device while creating a natural riffle-pool scenario that dissipates water velocity to minimize sediment movement. The step-pool structures will be built with armor stone approximately 500 to 1,000 lbs in size.

Extensive grading will be completed on the southern side of the streambank to create a natural stream channel. The total stream/riparian buffer restored will be approximately 0.3 AC. All trash and debris will be removed from the streambanks and riparian area as well as a concrete pad immediately adjacent to the stream head. Invasive species will be removed and all vegetative areas removed to allow access to the stream for construction will be replanted and restored to natural conditions with native species. In addition, approximately 0.09 +/- acres of cleared land will be planted with native species. Again, the sewer easement will not be planted and has not been included in the total riparian buffer enhancement acreage.

These plans are for design and permitting purposes only, not for construction purposes.



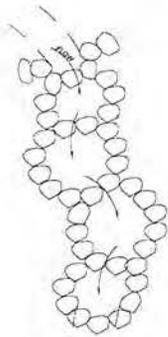
CHARLES COUNTY GOVERNMENT
 P.O. BOX 370
 LA PLATA, MARYLAND 20686

WILSON WESTLAND DESIGN INC.
 228 HANCOCK DRIVE
 WILDORE, MARYLAND 20611

RDS
TYP

TYP. ROCK DROP STRUCTURE PLAN VIEW

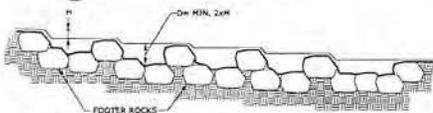
NOT TO SCALE



RDS
TYP

TYP. ROCK DROP STRUCTURE PROFILE VIEW

NOT TO SCALE



NEW C. 1.1. SANDBAGSTONE DIVERSION

OBJECTIVE
The main purpose of this structure is to divert flow from the main channel into a bypass channel during high flow events.

DESIGN CRITERIA
The structure shall be designed to handle a peak flow of 100 cfs with a water depth of 2.0 feet. The structure shall be constructed of concrete and shall have a minimum life span of 20 years.

CONSTRUCTION
The structure shall be constructed of concrete and shall have a minimum life span of 20 years. The structure shall be constructed of concrete and shall have a minimum life span of 20 years.

Maryland's Guidelines To Waterway Construction DETAIL 3: RIPRAP STEP POOLS

Author: Fred, Charles et al.

DEFINITIVE SECTION LEFT SIDE

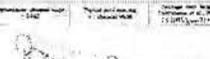


Note: 1. A rounded structure is to be used over concrete footer rocks. 2. A rounded structure is to be used over concrete footer rocks.

Maryland's Guidelines To Waterway Construction DETAIL 3: RIPRAP STEP POOLS

Author: Fred, Charles et al.

PROFILE VIEW CHANNEL & STEP POOL CONNECTION



Note: 1. A rounded structure is to be used over concrete footer rocks. 2. A rounded structure is to be used over concrete footer rocks.

NEW C. 1.1. SANDBAGSTONE DIVERSION

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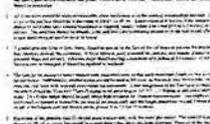
CONSTRUCTION

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NEW C. 1.1. SANDBAGSTONE DIVERSION

Author: Fred, Charles et al.

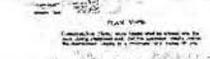
DEFINITIVE SECTION RIGHT SIDE



Note: 1. A rounded structure is to be used over concrete footer rocks. 2. A rounded structure is to be used over concrete footer rocks.

Maryland's Guidelines To Waterway Construction DETAIL 12: IMPERFORATED RIPRAP

Author: Fred, Charles et al.



Note: 1. A rounded structure is to be used over concrete footer rocks. 2. A rounded structure is to be used over concrete footer rocks.

NEW C. 1.1. SANDBAGSTONE DIVERSION

OBJECTIVE
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NEW C. 1.1. SANDBAGSTONE DIVERSION

Author: Fred, Charles et al.

PLAN VIEW



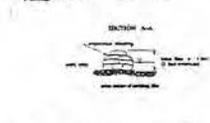
NEW C. 1.1. SANDBAGSTONE DIVERSION

Author: Fred, Charles et al.

TRANSVERSE SECTION VIEW



PLAN VIEW



NEW C. 1.1. SANDBAGSTONE DIVERSION

Author: Fred, Charles et al.

PLAN VIEW



NEW C. 1.1. SANDBAGSTONE DIVERSION

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NEW C. 1.1. SANDBAGSTONE DIVERSION

Author: Fred, Charles et al.

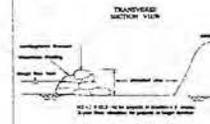
TRANSVERSE SECTION VIEW



NEW C. 1.1. SANDBAGSTONE DIVERSION

Author: Fred, Charles et al.

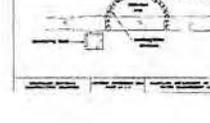
PLAN VIEW



NEW C. 1.1. SANDBAGSTONE DIVERSION

Author: Fred, Charles et al.

PLAN VIEW



DATE	2/24/11
SCALE	AS SHOWN
DATE	2/22/11
SCALE	AS SHOWN
DATE	2/22/11
SCALE	AS SHOWN
DATE	2/22/11
SCALE	AS SHOWN

FINAL STREAM WIDENING RESTORATION PLAN
WALDOGF CREEK/STETSON PARKWAY, PHASE 3
CROSS SECTION REVIEWS AND
CONSTRUCTION DETAILS
CHARLES COUNTY, MD
MAYTOWN INDUSTRIAL ROAD - MD RT. 5
ZONED COMMERCIAL INDUSTRIAL AND AGRICULTURAL
CHARLES COUNTY, MD

DATE	REVISIONS

Engineer
BOHLER
18701 Melrose Boulevard, Suite 215
Rockville, Maryland 20850
301.586.6500

AMERICAN LAND CONCEPTS
238 BAIN STREET
RESTON, VIRGINIA 20190
PHONE: (703) 251-3568



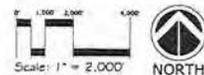
CHARLES COUNTY
GOVERNMENT
P.O. BOX 2150
LA PATA, MARYLAND 20646

CONSULTANT
WILL WEST LAND
CONSTRUCTION, INC.
13800 MONTICELLO DRIVE
WALDOGF, MARYLAND 20681

FINAL WETLAND MITIGATION PLAN FOR THE WALDORF CROSSING/WESTERN PARKWAY PHASE 2 AND 3 PROJECT

Charles County, Maryland
September 2013

TOPOGRAPHIC MAP



INDEX

Sheet 1	Title Sheet
Sheet 2	Existing Conditions
Sheet 3	Proposed Mitigation Plan
Sheet 4	Notes & Details

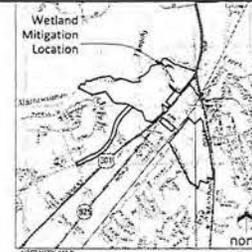
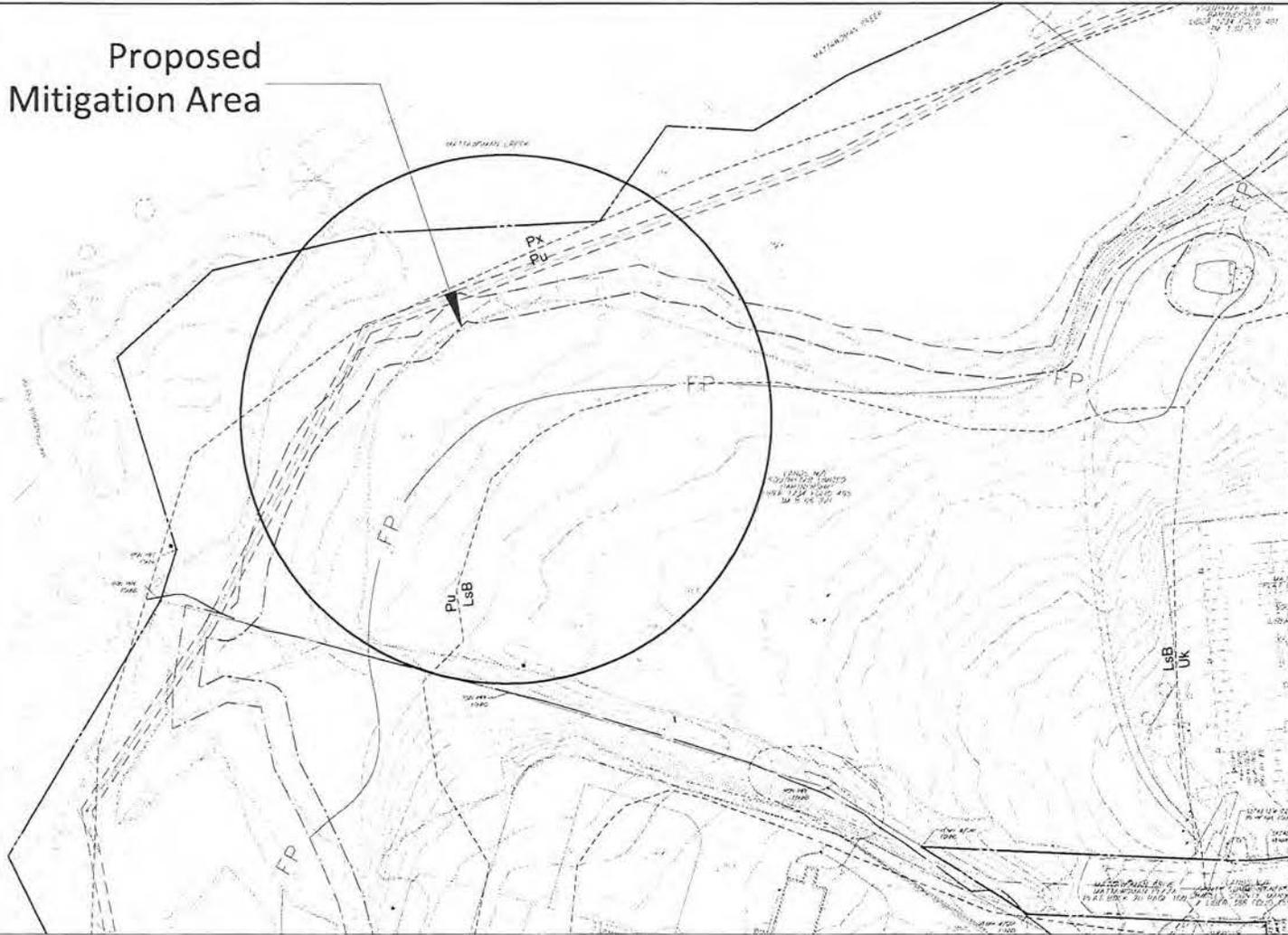
Survey provided by:
BOHLER
16701 Midford Boulevard, Suite 310
Dove, Maryland 20715
301.809.4500

Owner/Applicant
WRI WEST LAND
DEVELOPMENT, INC.
12303 MATTHEWMAN DRIVE
WALDORF, MARYLAND 20601
AND
CHARLES COUNTY GOVERNMENT
P.O. BOX 2150
LA PLATA, MARYLAND 20646

PREPARED BY:



Proposed Mitigation Area



LEGEND

- Property Boundary
- Existing Wetlands w/25FT Buffer
- Treeline
- Soils
- Stream/Stream Bank
- Floodplain

PROJECT NO.	0148
DATE	09/20/13
SCALE	1" = 50'
DESIGNER	AMERICAN LAND CONCEPTS
PROJECT	CHARLES COUNTY - U.S. RTE. 301 & WATTAWOMAN BEAUFORT ROAD - MD RTE. 3
LOCATION	3RD ELECTION DISTRICT
DATE	04/11/14
SCALE	1" = 100'

FINAL WETLAND MITIGATION PLAN
 MALCOLM CROSSING/STEELE PARKWAY PHASE 2 & 3
 EXISTING CONDITIONS
 CHARLES COUNTY - U.S. RTE. 301 & WATTAWOMAN BEAUFORT ROAD - MD RTE. 3
 3RD ELECTION DISTRICT
 CHARLES COUNTY, MD

DATE	REVISIONS

BOHLER
 1801 MARSHBOWNE SQ. #300
 BOWERSVILLE, MD 21031
 301.400.0400

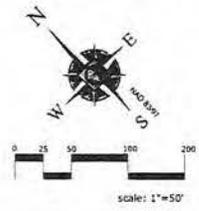
AMERICAN LAND CONCEPTS
 238 ELIAS STREET
 BEAUFORT, MD 21814
 PHONE: (410) 282-7888

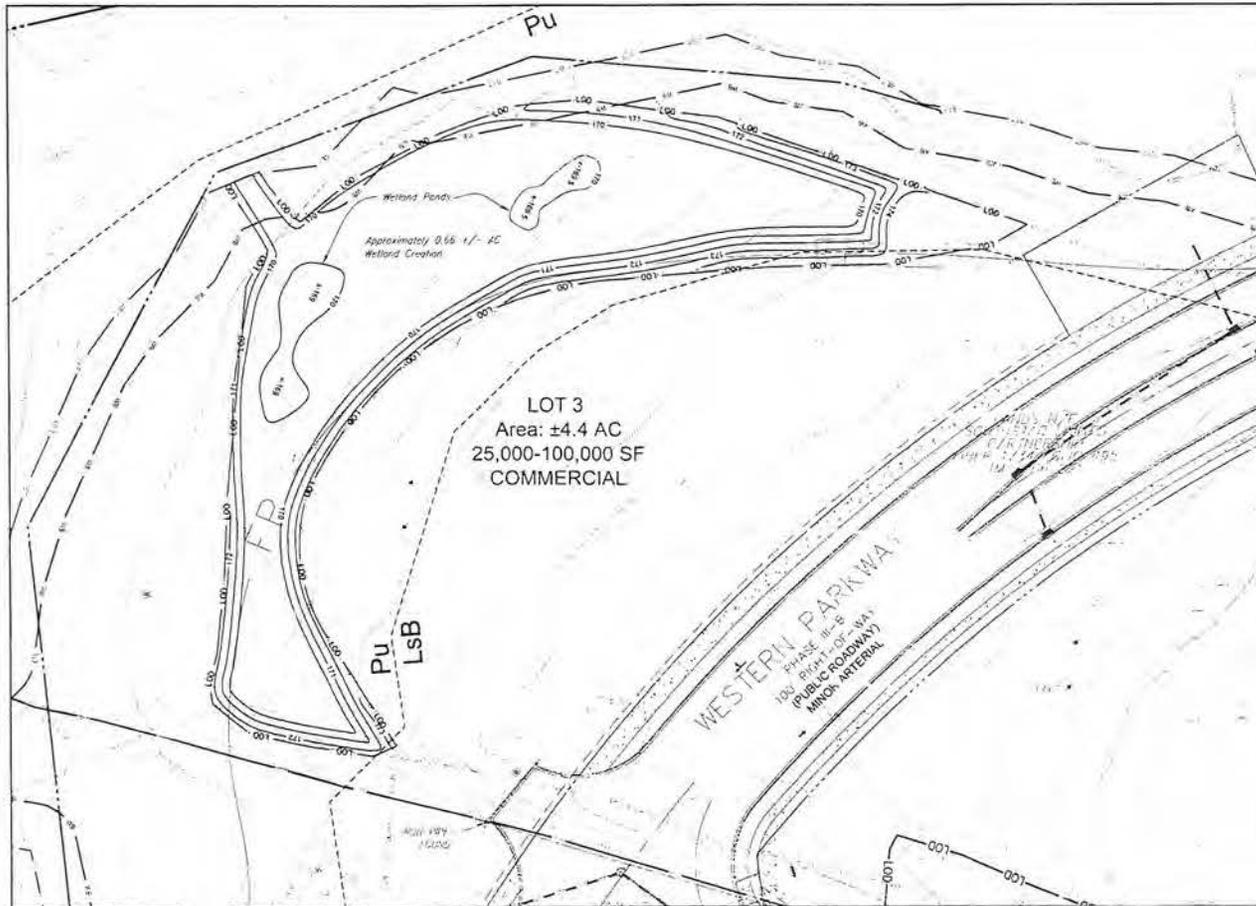


CHARLES COUNTY GOVERNMENT
 LA PALA LAND LAB 2046

WRI WEST LAND DEVELOPMENT, INC.
 1030 MATTAWOMAN DRIVE
 WILCOXVILLE, MD 21081

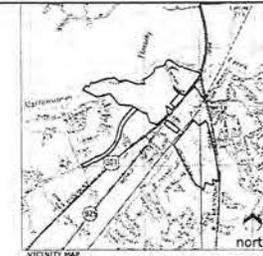
The Wetland Mitigation area is located within the Mattawoman Watershed and 100-year floodplain of the Mattawoman Creek. This area is currently cleared land and maintained as a football field. Nontidal forested wetlands associated with Mattawoman Creek are located immediately adjacent to the proposed wetland creation area. The soils is Potobac-Issue complex which frequently floods and poorly drains.





LEGEND

- Property Boundary
- Existing Wetlands w/25FT Buffer
- Tree Line
- Soils
- Stream/Stream Bank
- Floodplain
- Existing Contours
- Proposed Contours
- Spot Elevation
- Area To Be Planted
- Development LOD
- Mitigation LOD
- Proposed Mitigation Area
Approximately 0.66 +/- AC



DATE	REVISIONS	<p>BOHLER 18711 Main Rd, Suite 210 Rockville, Maryland 20850 301.864.6500</p>
DATE	REVISIONS	<p>AMERICAN LAND CONCEPTS REGISTERED ARCHITECTS AND PLANNERS 1115 W. WASHINGTON AVE. WASHINGTON, MARYLAND 20004 PHONE: (202) 638-2882</p>
DATE	REVISIONS	<p>CHARLES COUNTY GOVERNMENT 100 W. MAIN ST., 2ND FLOOR LA PLATA, MARYLAND 20686</p>
DATE	REVISIONS	<p>WRI WEST LAND DEVELOPMENT, INC. 10000 WOODBINE DRIVE WASHINGTON, MARYLAND 20004</p>

PROJECT: WALDORF CROSSING/WESTERN PARKWAY PHASE 2 & 3
 DRAWING: PROPOSED MITIGATION PLAN
 SHEET: 1 OF 1
 DATE: 09/20/2010
 DRAWN BY: JRM
 CHECKED BY: JRM
 SCALE: 1"=30'
 COUNTY: CHARLES COUNTY, MD

This wetland mitigation plan has been designed to compensate non-tidal wetland impacts associated with the construction of Waldorf Crossing and Western Parkway, Phase 2 and 3 in Charles County, Maryland. After necessary grading to ensure the created wetland will be successful and function as a highly aquatic resource, the total area converted to palustrine non-tidal forested wetland is approximately 0.66 +/- AC.

The goal of the creation of this palustrine forested wetland is to meet the design criteria in the 1987 USACE Wetland Delineation Manual. The proposed site is located adjacent to existing jurisdictional non-tidal palustrine wetlands and the created wetland will be graded to the same elevation of the existing wetland to allow for the hydrology to naturally flow between the created and existing wetlands.

In addition to the wetland being planted with native wetland species, the side slopes of the created wetland will be planted up to the existing forested area to further protect the Mattawoman Creek and the watershed.

Plans are for design and permitting purposes only, not for construction.



NON-TIDAL PALUSTRINE FORESTED WETLAND ESTABLISHMENT

I. INTRODUCTION

This wetland mitigation plan has been designed to compensate for unavoidable adverse non-tidal wetland impacts associated with the construction of Waldorf Crossing and Western Parkway, Phase 2 and 3 in Charles County, Maryland. After an extensive site redesign and redelineation, total permit impacts associated with the project are approximately 1.0 +/- AC of emergent and non-tidal palustrine forested wetlands. The proposed mitigation will convert approximately 0.66 +/- AC of cleared, floodplain to palustrine forested wetlands.

The proposed mitigation has been designed to effectively mitigate lost wetland functions by utilizing on-site, in-kind mitigation. The goal of the creation of this palustrine forested wetland is to meet the design criteria in the 1987 USACE Wetland Delineation Manual. The proposed site is located adjacent to existing jurisdictional non-tidal palustrine wetlands. The mitigation site will be graded and linked directly to the hydrology of the existing wetlands. The mitigation site will be planted to accelerate natural succession. These plans are for design and permit purposes only, not for construction. As part of the mitigation, the established wetlands will be recorded as a conservation easement to protect the wetlands in accordance with USACE.

A. Site Selection

The on-site mitigation location was selected due to the land being within the boundaries of the floodplain and the close proximity to existing jurisdictional wetlands. The site is cleared land that is maintained as a football field. Existing wetlands, floodplain, and waters of the United States are shown on the plan sheets. The selected mitigation site is within the Mattawoman watershed and the hydrologic unit code (HUC) is 02070011.

B. Adjacent Wetlands

Non-tidal palustrine wetlands are adjacent to proposed mitigation site. Dominant vegetation in the forested wetlands include River Birch, Red Maple, Sweet Gum, Green Ash, Willow Oak and Pin Oak. Soils within the wetlands are nearly flat with slight topographic variations between 1-10% slopes. The source of the wetland hydrology includes surface runoff and the Mattawoman Creek.

II. SEQUENCE OF CONSTRUCTION

1. Call Miss Utility 1-800-257-7777 at least 48 hours prior to beginning work.
2. Limit-of-Disturbance delineated and marked.
3. Clear and grub those areas necessary for installation of perimeter controls.
4. Installation of silt fence.
5. Excavation of the area in accordance with this Wetland Mitigation Plan. A minimum of 6 inches of existing loam will be removed and replaced with 6 inches of organic topsoil simultaneously.
6. Once topsoil is in place and any microtopographic has been established, a post grading survey will be conducted. The survey shall document spot elevations that are within +/- 0.2 FT of the elevations indicated on page 3 of this plan.
7. Vegetative planting of wetlands per plant list and planting specifications as shown on this sheet.
8. Removal of sediment and erosion control devices upon the inspector's approval.
9. Clean work site and stabilize any remaining areas.
10. Once stabilized, the silt fence will be removed.

III. SOIL AND EROSION CONTROL NOTES

1. All erosion and sediment control practices are to be constructed and maintained according to the minimum standards of the Maryland Erosion and Sediment Control Handbook. The Contractor is responsible for being thoroughly familiar with the measures contained within this document that are pertinent to this project.
2. It is the contractor's responsibility to inspect all erosion control devices periodically and after every erodible rainfall. Necessary repairs to maintain the effectiveness of the erosion control devices shall be made immediately. This maintenance will include the repair of measures damaged by any subcontractor.
3. All erosion and siltation measures are to be "in place" prior to construction.
4. If, during construction, additional erosion control devices are found necessary by either the contractor or the County, they shall be installed.
5. Permanent soil stabilization shall be applied to bare areas within seven days of reaching final grade. No disturbed area will be denuded of more than 28 calendar days.
6. Temporary seeding shall be accomplished within seven days to denuded areas that may not be at final grade but will remain dormant for longer than 30 days.
7. The term Seeding, Final Cover or Stabilization shall include establishment of a stable grass cover according to Specification 1.66, Permanent Seeding, of the Maryland Erosion and Sediment Control Handbook.
8. Temporary erosion control measures are not to be removed until all disturbed areas are stabilized. After completion of stabilization, all measures are removed within 30 days. Trapped sediment shall be spread and seeded.
9. Minimize the area disturbed to that area only required for construction.
10. Native vegetation will be preserved to the maximum extent possible consistent with the use and development permitted and according to the Maryland Erosion and Sediment Control Handbook.

IV. GRADING CRITERIA

To effectively establish wetland hydrology, the site requires regrading to allow water to drain to the wetland. The wetland establishment will be graded to elevations indicated on Sheet 3 of this plan. The proposed mitigation area will be rough graded to an elevation of 170'. Final grading including the establishment of required microtopographic variation will range in elevation from 169' to 170.5' to establish wetland hydrology. During excavation, the wetland specialist can alter the grading as needed to allow for proper wetland establishment. Irregularities in the floor of the wetland caused by equipment moving around the site during construction will be left in place to mimic Hummocky microtopography. Hummocky microtopography mimics naturally occurring microtopography created by decaying wetland vegetation. A wetlands specialist will be present during the construction to oversee the microtopography variation of the wetland. The mitigation site design includes the creation of ponds and islands to mimic a natural system and provide for bio-diversity.

V. TOPSOIL APPLICATION

The topsoil from the existing wetland should be stockpiled separately from the subsoil and protected for use in the created wetland. That will reduce the need for additional organic amendments. If that is not possible, the site may need to be over excavated 6-12 inches (depending on site hydrology/groundwater inputs) and a comparable amount of high quality topsoil, organic soil, muck, or composted organic material added. Where the site has been graded down to the original subsoil (B or C horizon), sufficient organic matter (topsoil, compost, leaf mold, etc.) should be added to bring soil organic matter content to at least 5% (this could be as much as several inches of material). This will provide a rooting medium and a source of organic material to support the microbial activity necessary to establish a reducing environment. Mulch can be difficult to mix into clayey soils, where diskage may be possible to a depth of only 6-8 inches. If mulch is added, it should be mixed into the soil very well and should not be added in such quantities that herbaceous growth will be inhibited.

VI. PLANTING SPECIFICATIONS

Planting shall commence after final grading. All plant material shall be installed between March 1 to May 30 or September 1 to October 30. Planting materials will consist of container grown shrubs and trees. All stock will be planted as received, no pruning will be done at the site. Stock not meeting specifications will be returned. All planting stock shall be protected from sun scald, desiccation, and structural damage during shipment to the site. Delivery of materials will be no sooner than one week prior to planting. Materials held for planting will be moistened and placed in cool, shaded areas until ready for placement.

A. Planting Materials

1. The plant species required are usually not available from standard landscape nursery sources. The Contractor shall make arrangements with competent wetland restoration sources to ensure a supply of the required materials.
2. All plant material shall conform to the current issue of the American Standard for Nursery Stock published by the American Association of Nurserymen, except where otherwise noted.
3. Plant materials must be selected from certified nurseries that have been inspected by appropriate state or federal agencies.
4. Botanical nomenclature is according to Hortus III.
5. Individual plants shall be shipped and planted in containers. Care must be taken to avoid drying out the plants, rhizomes, tubers, or foliage during shipping and staging.
6. Plant material will be inspected by the wetland specialist prior to planting. All plant material deemed unacceptable due to damage or poor health will be required to be replaced with acceptable plant material by the Contractor.

B. Planting

1. The wetland is to be planted with woody plants (tree and shrubs) at a minimum of 435 stems per acre (Approximately 10' on center).
2. Plants shall be planted on 10' center across the gradient. Plants will be categorized by preferred hydroperiod and planted in proper hydrologic zones.
3. Plant material shall be planted in a planting pit excavated to 1 1/2 times the width of the entire root mass and tamped to fill all voids and air pockets.
4. The root mass shall be placed in the planting pit and excavated soil shall be placed around the root mass and tamped to fill all voids and air pockets.

C. Cleanup

1. Final cleanup shall be the responsibility of the Contractor and consist of removing all trash and materials incidental to the project and the proper disposal of the material off-site.
2. Cleanup procedure activities shall not damage existing plants.

VII. CONTROL OF INVASIVE PLANTS AND ANIMALS

A maintenance program will be implemented to employ proven management techniques and monitor the wetland functions to achieve the goal of 80% cover 5 years from the completion of the planting.

VIII. MONITORING AND SUCCESS

Monitoring and success will be measured in accordance with the United States Army Corps of Engineers Branch Guidance for Wetlands Compensation Permit Conditions and Performance Criteria (16 November 1995) and Maryland Department of the Environment's Guide to Nontidal Wetland Mitigation Monitoring: Methods Manual. Monitoring Reports are required for the first five years following the end of the first growing season after planting. Hydrologic, vegetative, and soils data will be collected throughout the year. Reports will be provided to the United States Army Corps of Engineers no later than October 31 of the monitoring year. At a minimum each report will include:

1. A site map illustrating the wetland boundary based on hydrology and vegetation data and the calculated acreage based on that data.
2. Photographs showing views of the wetland area taken from permanent stations and corresponding view directions. View direction will show the same area throughout the monitoring period.
3. Surface water depths observed during monitoring.
4. Vegetation data will include density counts for woody plants by species and herbaceous plants by percent cover.
5. Soil will be monitored to ensure hydrological indicators in accordance with the USACE manual such as mottling, oxidized rhizospheres, etc. are present.
6. Identification and location of any invasion of undesirable species of vegetation and/or wildlife will be reported in the Monitoring Report. The report will suggest methods for removal and monitoring of undesirable species of vegetation and wildlife.

PLANT LIST

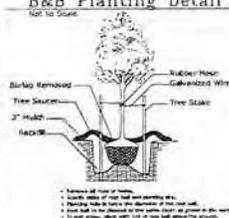
REFORESTATION AREA A PLANTING LIST:

0.82 ACRES @ 435 TREES/ACRE = A MINIMUM OF 357 TREES/SHRUBS

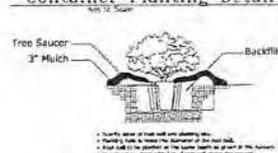
Common Name	Scientific Name	Quantity	Size
Red Maple	<i>Acer rubra</i>	50	1 gallon containers
River Birch	<i>Betula nigra</i>	40	1 gallon containers
Pin Oak	<i>Quercus palustris</i>	40	1 gallon containers
Willow Oak	<i>Quercus phellos</i>	40	1 gallon containers
Sweetgum	<i>Liquidambar styraciflora</i>	50	1 gallon containers
Arrowwood	<i>Viburnum dentatum</i>	50	1 gallon containers
Silky Dogwood	<i>Cornus amomum</i>	25	1 gallon containers
Buttonbush	<i>Cephalanthus occidentalis</i>	20	1 gallon containers
Sweetbay Magnolia	<i>Magnolia virginiana</i>	20	1 gallon containers
Highbush Blueberry	<i>Vaccinium corymbosum</i>	25	1 gallon containers
		TOTAL	360

NOTE: Substitutions in plant species, size, quantities, or other materials, shall be made only when plant stock is not available. Comparable substitutions can be made that do not result in a significant change in plant diversity or type.

B&B Planting Detail



Container Planting Detail



Plant Community Layout



DATE: _____ DATE: _____ DATE: _____
 REVISIONS: _____
 PROJECT: WALDORF CROSSING/WESTERN PARKWAY, PHASE 2 & 3
 DRAWN BY: _____ CHECKED BY: _____
 DESIGNED BY: _____ APPROVED BY: _____
 DATE: _____
 PROJECT: WALDORF CROSSING/WESTERN PARKWAY, PHASE 2 & 3
 DRAWN BY: _____ CHECKED BY: _____
 DESIGNED BY: _____ APPROVED BY: _____
 DATE: _____
 PROJECT: WALDORF CROSSING/WESTERN PARKWAY, PHASE 2 & 3
 DRAWN BY: _____ CHECKED BY: _____
 DESIGNED BY: _____ APPROVED BY: _____
 DATE: _____

BOHLER
 10700 Middlebrook Road, Suite 303
 Rockville, Maryland 20850
 301.396.6500

AMERICAN LAND CONCEPTS
 240 MAIN STREET
 RESTON, VIRGINIA 20191
 PHONE: 703.441.2800

AIC
 CHARLES COUNTY
 10000 WOODBURN ROAD
 LAUREL, MARYLAND 20646
 410

WIR WEST LAND DEVELOPMENT, INC.
 10000 WOODBURN ROAD
 WASHINGTON, MARYLAND 20646