

MGWC 2.2: IMBRICATED RIPRAP

DESCRIPTION

Imbricated riprap is used to protect and stabilize embankment soils from the crosive forces of flowing water and piping forces resulting from groundwater seepage. A well-engineered imbricated riprap revetment should consist of

- a filter layer of gravel or cloth designed to prevent soil movement into or through the riprap layer while
- allowing water to drain from the embankment, and a stone wall of appropriate size and positioning to resist the shearing forces of channelized water and the lateral

EFFECTIVE USES & LIMITATIONS

When properly designed and installed, imbricated riprap revetments resist lateral earth pressures to some extent and can be an effective method of bank armoring where soil conditions, water turbulence and velocity, expected vegetative cover, and groundwater conditions are such that the soil may erode under the design flow conditions and

Filter cloth should only be utilized when the bank material is a noncohesive material such as sand or gravel.

MATERIAL SPECIFICATIONS

Materials for imbricated riprap construction and installation should meet the following requirements Filters: Synthetic filter fabric may be used cautiously based on the 1994 MD Standards and Specifications for

Soil Erosion and Sediment Control. Whenever possible, however, granular filters with a minimum thickness of 6 inches (15 cm) should be used with a gradation as found in Table 2.2. Table 2.2: Granular Filter Material Grading Specifications
Percent Less Than U.S. Standard Sieve Sir
100 2 1/2 in (64 mm) 1 in (25 mm) 1/2 in (13 mm)

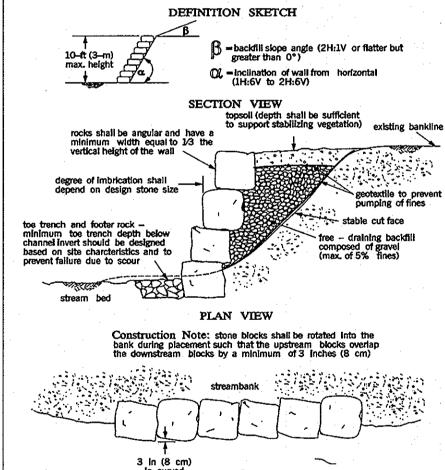
- . Toe Riprop: The maximum diameter or weight of stone for toe riprop should be based upon the bankfull stream channel velocity as detailed in the MGWC 2.1: Riprap and Figure 2.1.
- Imbricated Stones: Imbricated riprap should be angular and blocky in shape such that they are stackable and
 should be sufficiently large to resist displacement by both the design storm event and the site-specific lateral
 earth stresses. Therefore, the length of the longest axis of each stone should be the greater of 1/3 the height of
 the proposed wall and the size necessary to resist the design stream flow according to MGWC 2.1: Riprap. A nimum axis length is 24 inches (0.6 meters). Approximate Cost (\$1999): \$90 per linear ft

INSTALLATION GUIDELINES

All erosion and sediment control devices, including dewatering basins, should be implemented as the first order of business according to a plan approved by the WMA or local authority. The recommended construction procedure for imbricated riprap is as follows (refer to Detail 2.2):

- 1. The stream should be diverted according to a WMA recommended procedure (see Section 1, Temporary
 Instream Construction Measures, Maryland's Guidelines to Waterway Construction), and the construction area should be dewatered.
- 2. All excavation should be made in reasonably close conformity with the existing stream slope and bed. The slope of the cut face should be in the range of 1H.6V to 2H:6V. Loose material at the toe of the embankment should be excavated until a stable foundation is reached, usually within 2 to 3 feet (0.6 to 0.9 meters) of the surface. The subgrade should be smooth, firm, and free from protruding objects or voids that would effect the
- . A graded granular filter or filter fabric should be placed on the face of the cut slope to prevent the migration of fine materials through the revetment. If filter fabric is used, it should be carefully and loosely placed on the prepared slope and secured. Adjacent strips should overlap a minimum of 8 inches (0.20 meters). If the filter fabric is torn or damaged, it should be repaired or replaced
- The rock layers should be neatly stacked with staggered joints so that each stone rests firmly on two stones in
 the tier below. Additionally, smaller stones should be used to fill voids so that each rock rests solidly on the previous rock layer with minimal opportunity for movement. Upon completion of the first layer of stone, the toe treach should be filled with Class III riprap sized according to MGWC 2.1: Riprap or additional imbricated stone. Two footer stones should be used where high potential for channel incision exists. The height of the imbricated revetment is dictated by the size of the stone used, and the height should not exceed 3 times the length of the longest axis and should not be greater than 10 feet (3 meter
- Placement of the granular backful should occur concurrently with the stone placement. The backful slope angle should be 2H:1V or flatter but should be greater than 0 degrees to facilitate drainage. Once all of the backfill is in place, it should be covered with a filter layer and a layer of topsoil sufficient to support a native vegetative
- 6. The disturbed sections of the channel, including the slopes and stream bed, should be stabilized with methods





MGWC 1.1: DEWATERING BASINS

SLOPE PROTECTION AND REVISED NOVEMBER 2000 MARTLAND DEPARTMENT OF THE ENVIRONMENT STABILIZATION TECHNIQUES PAGE 23 - 3 WATER MANAGEMENT ADMINISTRATION

Temporary measure for filtering sediment-laden water

DESCRIPTION

The work should consist of installing dewatering basins jointly with channel diversion measures to filter sediment-

EFFECTIVE USES & LIMITATIONS

MATERIAL SPECIFICATIONS

Materials for dewatering basins should meet the following requirement Riprap: Riprap should be washed and have a diameter ranging from 4 to 6 inches (10 to 15 centimeters)

 Filter Cloth: Filter cloth should be a woven or non-woven fabric consisting only of continuous chain polym filaments or yams of polyester. The fabric should be inert to commonly encountered chemicals, hydro-car ultraviolet light, and mildew and should be rot resistant.

Straw Bales/Silt Fence: Straw bales should meet the criteria as specified in the 1994 Maryle Specifications for Soil Erosion and Sediment Control.

Due to the danger of overtopping by events greater than the design flow, dewatering basins require a vegetative buffer strip to filter sediment-laden overflow. A 50-foot (15-meter) minimum grass-covered buffer width is required for slopes less than 20 degrees (1-2.7) when right-of-way is not limited. For slopes greater than 20 degrees, basins should have a 100 feet (20 meter) with the part of the filter o

All erosion and sediment control devices should be installed as the first order of business according to a plan approved by the Water Management Administration (WMA) or local authority. Dewatering basins should be

- The dewatering basin should have a minimum depth of 3 feet (1 meter) where basin depth is measured from the top of the straw bales to the bottom of the excavation.
- Once the dewatering basin becomes filled to one-half of the excavated depth, accumulated sediment should be removed and disposed of in an approved area outside the 100-year floodplain unless otherwise authorized by the WMA.
- 4. Sediment control devices should remain in place until all disturbed areas are stabilized and the inspecting unless otherwise approved by the WMA or local authority

MARYLAND DEPARDMENT OF THE ENVIRONMEN WATERWAT CONSTRUCTION GUIDELINES REVISED NOVEMBER 2000 PAOR 1.1-1

MGWC 1.5: SANDBAG/STONE CHANNEL DIVERSION

emporary measure for dewatering inchannel construction sites 🐇

DESCRIPTION The work should consist of installing sandbag or stone flow diversions for the purpose of erosion control when construction activities occur within the stream channel.

EFFECTIVE USES & LIMITATIONS

Diversions are used to isolate work areas from flow during the construction of in-stream projects. Diversions which have an insufficient flow capacity can fail and severely erode the disturbed channel section under construction. Therefore, in-channel construction activities should occur only during periods of low rainfall. This temporary measure may not be practical in large channels.

MATERIAL SPECIFICATIONS

Materials for sandbag and stone stream diversions should meet the following requirements:

- Riprop: Riprop should be washed and have a minimum diameter of 6 inches (0.15 meters).
 Sandbags: Sandbags should consist of materials which are resistant to ultra-violet radiation, tearing, and puncture and should be woven tightly enough to prevent leakage of the fill material (i.e., sand, fine gravel, etc.). Shooting: Sheeting should consist of polyethylene or other materials which are impervious and resistant to

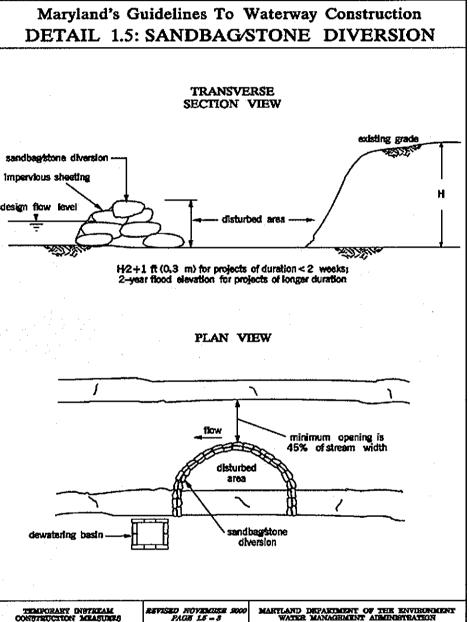
INSTALLATION GUIDELINES

All erosion and sediment control devices, including dewatering basins, should be implemented as the first order of business according to a plan approved by the WMA or local authority. Installation should proceed from upstream to downstream during periods of low flow. If necessary, silt fence or straw bales should be installed around the

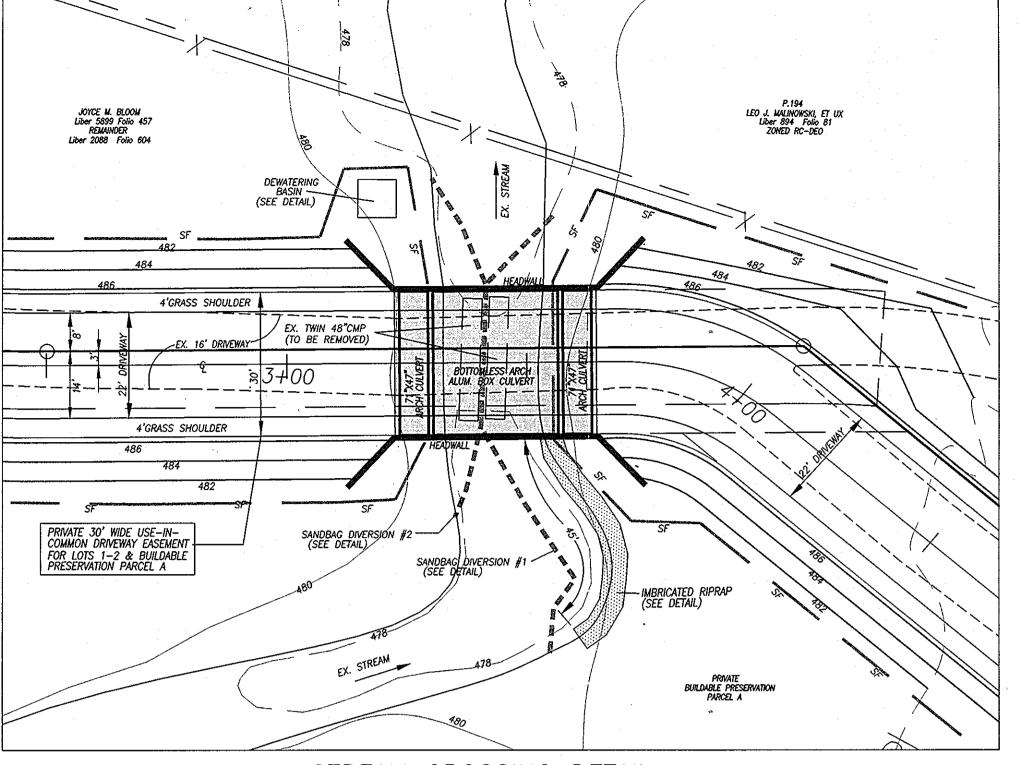
Sandbag/stone diversions can be used independently or as components of other stream diversion techniques. Installation of this measure should proceed as follows (refer to Detail 1.5):

- 1. The diversion structure should be installed from upstream to downstream.
- 2. The height of the sandbag/stone diversion should be a function of the duration of the project in the stream reach. For projects with a duration less than 2 weeks, the height of the diversion should be one half the streambank height, measured from the channel bed, plus 1 foot (0.3 meters) or bankfull height, whichever is greater. For projects of longer duration, the top of the sandbag or stone diversion should correspond to bankfull height. For diversion structures utilizing sandbags, the stream bed should be hand prepared prior to placement of the base layer of sandbags in order to ensure a water tight fit. Additionally, it may be necessary to prepare the bank in a
- 3. All excavated material should be deposited and stabilized in an approved area outside the 100-year floodplain
- unless otherwise authorized by the WMA.
- 4. Sediment-laden water from the construction area should be pumped to a dewatering basin. 5. Sheeting on the diversion should be positioned such that the upstream portion covers the downstream portion with at least a 18-inch (0.45 meters) overlap.
- 6. Sandbag or stone diversions should not obstruct more than 45% of the stream width. Additionally, bank
- stabilization measures should be placed in the constricted section if accelerated erosion and bank scour are observed during the construction time or if project time is expected to last more than 2 weeks.
- Prior to removal of these temporary structures, any accumulated sediment should be removed, deposited and stabilized in an approved area outside the 100-year floodplain unless authorized by the WMA.

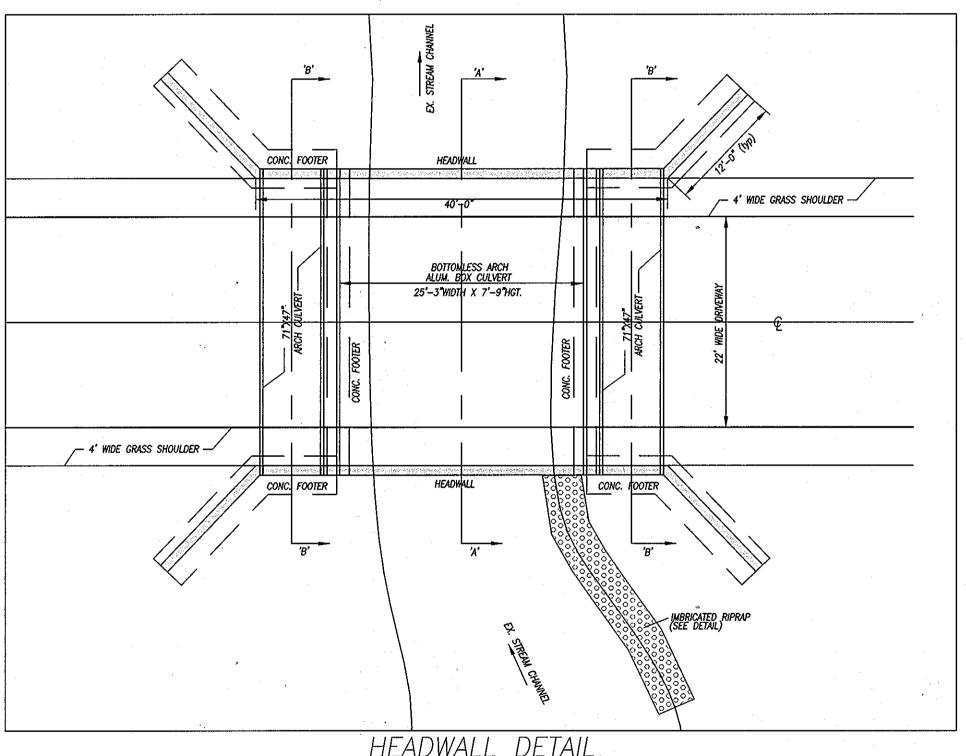
8. Sediment control devices are to remain in place until all disturbed areas are stabilized in accordance with an



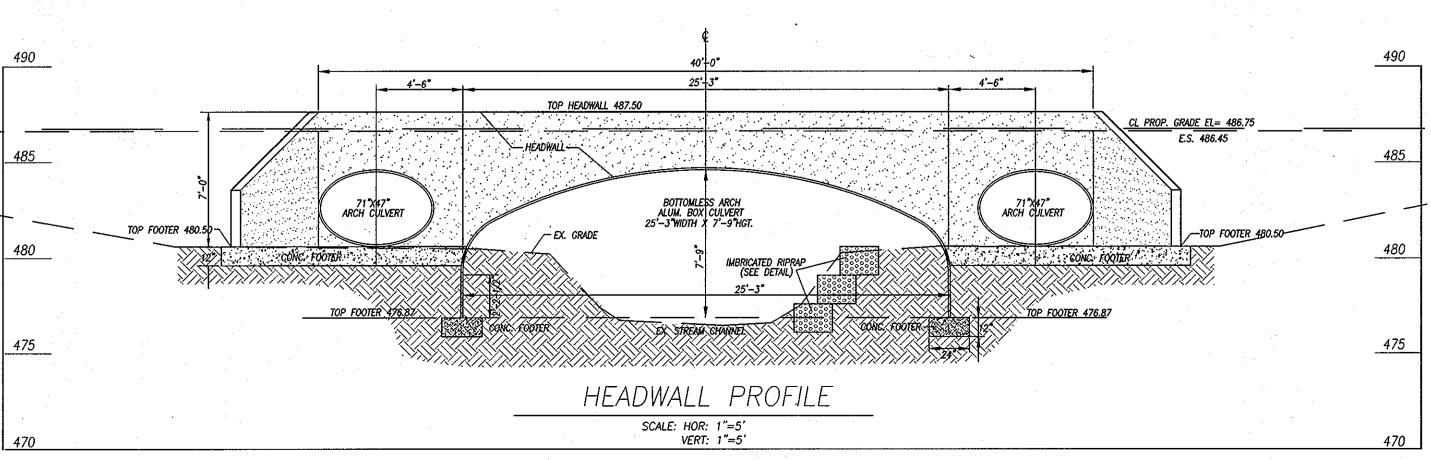
Maryland's Guidelines To Waterway Construction **DETAIL 1.1: DEWATERING BASINS** PLAN VIEW straw bale dike or berm 5-ft (1.8-m) minimum SECTION B-B 2 to 3-ft (0.6 to 0.9-m) 4-In (10-cm) minimum depth



STREAM CROSSING DETAIL



HEADWALL DETAIL SCALE: 1"=10'

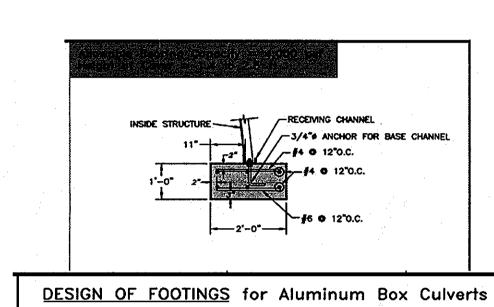


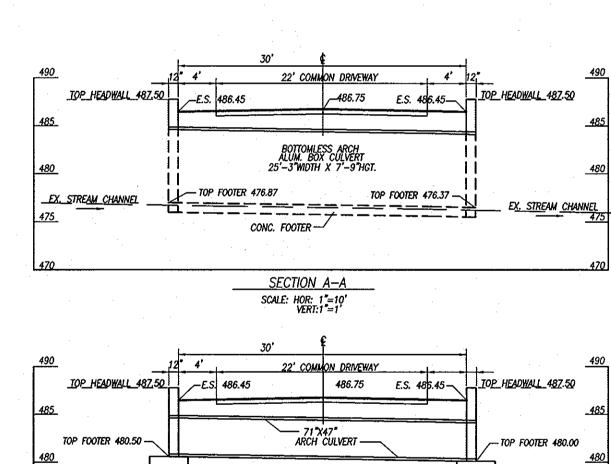
SEQUENCE OF CONSTRUCTION FOR STREAM CROSSING

- 1. INSTALL SANDBAG DIVERSION #1 ACCORDING TO MGWC 1.5 SPECIFICATIONS TO DIVERT THE STREAM FLOW AWAY FROM THE RIGHT CULVERT AND BANK.
- 2. REMOVE RIGHT CULVERT AND INSTALL FOOTER FOR BOX CULVERT, DEWATER AS NECESSARY.
- 3. INSTALL GABION BANK STABILIZATION PER MGWC 2.3, STABILIZE ANY DISTURBED AREA AND
- REMOVE SANDBAG DIVERSION #1. 4. INSTALL SANDBAG DIVERSION #2 ACCORDING TO MGWC 1.5 SPECIFICATIONS, TO DIVERT THE
- 5. REMOVE REMAINING CULVERT AND INSTALL SECOND FOOTER FOR BOX CULVERT, DEWATER AS NECESSARY AND STABILIZE ALL DISTURBED AREAS.

STREAM FLOW AWAY FROM THE REMAINING CULVERT AND LEFT BANK.

- 6. REMOVE SANDBAG DIVERSION #2.
- 7. INSTALL ALUMINUM BOX CULVERT AND HEADWALLS.
- (COMPLETE DESIGN AND INSTALLATION TO BE PERFORMED BY CONTECH BRIDGE SOLUTIONS INC.)





SECTION B-B SCALE: HOR: 1"=10' VERT:1"=1' APPROVED: DEPARTMENT OF PLANNING AND ZONING CHIEF, DEVELOPMENT ENGINEERING DIVISION CHIEF, DIVISION OF LAND DEVELOPMENTAL

EX. STREAM CHANNE

OWNER: JOYCE M. BLOOM P.O. BOX 58 LISBON, MD. 21765 301-854-5019 DATE REVISIONS

PROFESSIONAL CERTIFICATION I hereby certify that these documents were prepared or approved by me, and that I am a duly licenced professional engineer under the laws of the State of Maryland, License No. 10539. Expiration Date: 8-17-09.

374

CULVERT DETAILS BLOOM PROPERTY LIBER 5899 FOLIO 450

> SITUATED ON CARRS MILL ROAD ELECTION DISTRICT No. 4 HOWARD COUNTY, MARYLAND SCALE: AS SHOWN MARCH 2008

SHEET 2 OF 3 VANMAR ASSOCIATES, INC. Engineers Surveyors Planners 310 South Moin Street P.O. box 328 Mount Airy, Maryland 21771 (301) 829 2890 (301)831 5015 (410) 549 2751

RETENTION AREA MACHINERY, DUMPING OR STORAGE OF ANY MATERIALS IS obligation exclusively through retention. PROTECTIVE FENCING DETAIL PROHIBITEL VIOLATORS ARE SUBJECT TO FINES AS IMPOSED BY THE MARYLAND FOREST CONSERVATION ACT OF 1991 Forest conservation easement signage to be installed using 2" x 2" timber, 6' in length and installed to a depth of no less than 1/3 of the total height of post. Signage may be installed on anchor posts used for support of Tree Protection Fence, and post may remain after construction is complete and mesh is removed Boundaries of Retention area should be staked and flagger prior to installing device. 4. Space Signs 100' O.C.

FOREST CONSERVATION WORKSHEET VERSI ON 1.0

NET TRACT AREA: A. Total tract area.... B. Area within 100 year floodplain= 6, 84 C. Area to remain in agricultural production.....= 0.00 D. Net tract area....=

INSTALL ALONG PERIMETER OF FOREST CONSERVATION EASEMENTS.
TO REMAIN IN PLACE AND IN GOOD REPAIR FOR TWO YEARS
OR UNTIL THE END USER OCCUPIES THE PROPERTY, WHICHEVER

F- 07- 0123

6. 26

5.76

3. 66

LAND USE CATEGORY: (from table 3.2.1, page 40, Manual) Input the number "1" under the appropriate land use zoning, and limit to only one entry.

E. Afforestation Threshold..... F. Conservation Threshold..... EXISTING FOREST COVER:

G. Existing forest cover (excluding floodplain)....= H. Area of forest above afforestaion threshold= 1. Area of forest above conservation threshold =

BREAK EVEN POINT: J. Forest retention above threshold with no mitigation.....= K. Clearing permitted without mitigation.....

PROPOSED FOREST CLEARING: L. Total area of forest to be cleared..... 4.61 M Total area of forest to be retained....=

PLANTI NG REQUIREMENTS:

N. Reforestation for clearing above conservation threshold...= 1. 15 P. Reforestation for clearing below conservation threshold...= 0.00 1.15 0.00 0.00

Q. Credit for retention above conservation threshold.....= R. Total reforestation required.....= S. Total afforestation required.....= T. Total reforestation and afforestation required.....=

FOREST CONSERVATION PLAN/ LANDSCAPE PLAN/TOPOGRAPHY/SOILS BLOOM PROPERTY

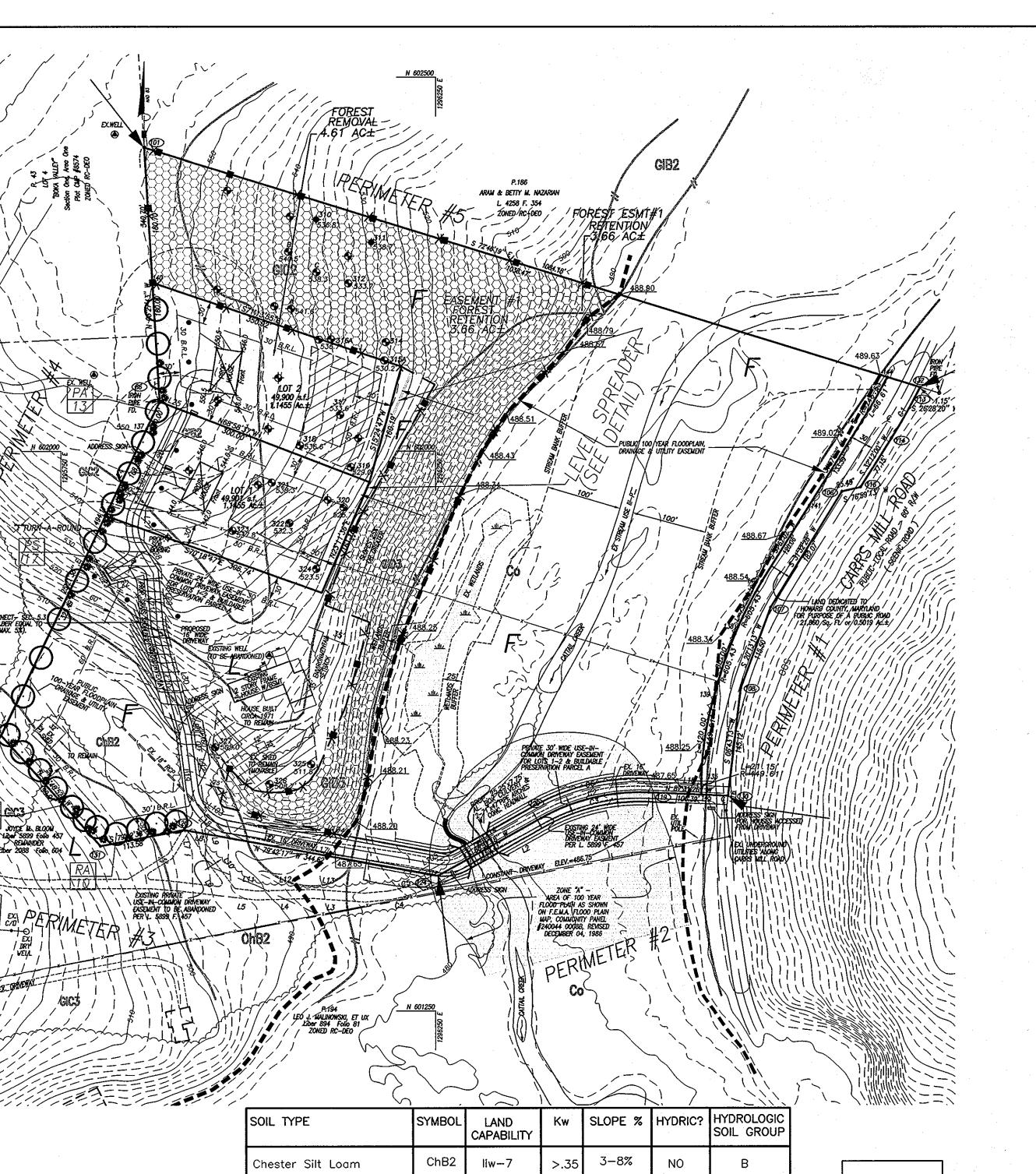
LIBER 5899 FOLIO 450

SITUATED ON CARRS MILL ROAD

ELECTION DISTRICT No. 4 HOWARD COUNTY, MARYLAND SCALE: 1" = 100' JANUARY, 2007

ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street P.O. box 328 Mount Airy, Maryland 21771

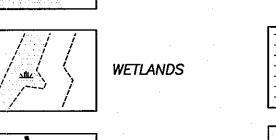
SHEET 3 OF 3



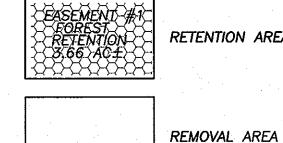
\sim		<u> </u>	1/ /	_/ ^	<u> </u>	
SOIL TYPE	SYMBOL	LAND CAPABILITY	Kw	SLOPE %	HYDRIC?	HYDROLOGIC SOIL GROUP
Chester Silt Loam	ChB2	liw7	>.35	3-8%	NO	В
Codorus Silt Loam	Со	lle-4	≤.35	0-3%	YES	C.
Glenelg Loam	GIB2	lle-4	>.35	3-8%	NO	В
Glenelg Loam	GIC2	IIIe-4	>.35	8-15%	NO	В
Glenelg Loam	GIC3	IVe-3	>.35	8-15%	NO	В
Clanala Loam	GID.3	V/le=2	\ 75	15-25%	NO	D

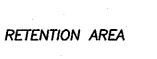
SCHEDULE A PERIMETER LANDSCAPE EDGE	Gleneig Loam	GIDS VIe-2		2 >.35 13		.5% p	NO .	
LANDSCAPE TYPE	F							
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER 621.15' 413.38' 657.21' 834.87' 1084.18'	CATEGORY							
FRONTAGE/PERIMETER	LANDSCAPE TYPE	#1=NONE	#2=NONE	# 3=B	#4=B	# 5=8	TOTAL	1
(YES, NO, LINEAR FEET) NO NO EX. FOREST EX. FOREST EX. FOREST CREDIT FOR WALL, FENCE, OR BERM (YES, NO, LINEAR FEET) NO NO		621.15	413.38*	657.21	834.87'	1084.18		
(YES, NO, LINEAR FEET) NO NO<	(YES, NO, LINEAR FEET)	NO	NO					
SHADE TREES	(YES, NO, LINEAR FEET)	NO	NO	NO	NO	NO		
SHADE TREES 0 0 0 10 13 0 23 EVERGREEN TREES 0 0 0 13 17 0 30 SHRUBS (10:1 SUBSTITUTION) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SHADE TREES EVERGREEN TREES	ΙŌ	0 0	10 13	13 17	0 0	23 30	
	SHADE TREES EVERGREEN TREES SHRIB	0 0 0 0 0		10 13 0 0	17		23 30	
Selon ii Needely	(DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)							

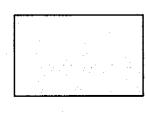
LAWN



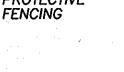
SOILS LINE

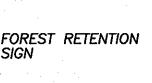


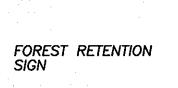


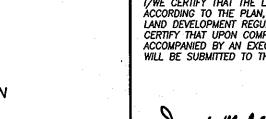


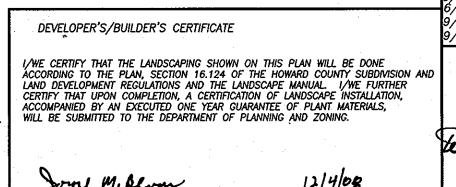












17/07 COMMENTS 6/07/07 03/07 COMMENTS 8/03/07 COMMENTS 1/07/08 DRIVEWAY RÉVISIONS

GID3 VIe-2 > 35 15-25% NO UPRIGHT STAKES ----FLOODPLAIN TYPICAL UPRIGHT STAKING DETAIL (N.T.S.) SOILS SYMBOL APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENTAL

muun

FOREST

25%+ SLOPE

29 Shade Trees @ \$300 each = \$8,700 38 Evergreen Trees @ \$150 each = \$5,700 Total = \$14,400

SYMBOL | QTY. | BOTANICAL NAME CONDITION SPACING SIZE COMMON NAME 2-2.5"CAL AS SHOWN B&B Platanus x acerifolia London Planetree 6--8' HT B&B AS SHOWN 30 | Pinus strobus

EXHIBIT 3-2

Project Name: Applicant:

MAPLE (Red,Silver)

*AREA MEASURED TO THE NEAREST 1/10 ACRE

** SOURCE: HOWARD COUNTY SOIL SURVEY, USDA

Submission No. Applicant

FOREST RETENTION

SIGNAGE

-Min. 11"----

FOREST

2.1133 AC±

AVERAGE

2.1133 AC.± TOTAL SENSITIVE AREA

WETLAND AREA 0.2387 AC.±

WETLAND BUFFER 0.6286 AC.±

>25% SLOPE 1.246 AC.±

E. STAND CHARACTERISTICS

MAPLE (Red,Silver) 6-10" 30-50 AVERAGE

Size 2 Age 3 General

6-10" | 30-50 | AVERAGE

FOREST STAND ANALYSIS TABLE

Applicant: Applicant:

1 Soit 2 Typical forest 3 Woodland

4

HARDWOODS

HARDWOODS

HARDWOODS

ChB2 HARDWOODS

B. AREA* C. SOIL INFORMATION**

GID3

STREAM VALLEY 14.589 AC± Co

1. Plants shall conform to current American Standards for Nursery Stock by American Association of Nurserymen (AAN), particularly with regards to site, growth, and size of ball and density of branch structure. Contractor to

2. All plants (B&B or container) shall be properly identified by weatherproof labels securely attached hereto before

3. Any material and/or work may be rejected by the owners representative if it does not meet the requirements of

schedule. The landscape contractor shall be responsible to verify all plant quantities on the plans prior to

5. Substitutions in plant species or size shall not be permitted except with the written approval of the owners

6. Plants shall be located as shown on the drawings and by scaling or as designated in the field by the owners

7. The location of existing utilities shown hereon are approximate only. Contractor shall excavate to verify the existence, location, and depth of any utilities (constructed and existing) and shall notify the engineer of any

8. Contractor shall locate and mark all underground utility lines and irrigation systems prior to excavating plant

the trees shall be selected by the owners representative. Such changes shall be made by the contractor without additional compensation. No changes of location shall be made without the approval of the owners representative. Any utility (whether shown or not) damaged due to construction shall be repaired immediately.

beds or pits. All utility easement areas where no planting shall take place shall also be marked on the site, prior to locating and digging the tree pits. If utility lines are encountered in excavation of tree pits, other locations for

The contractor shall be responsible for removing or replacing any existing fences, driveways, etc., damaged or

removed by the contractor during construction. All offsite disturbed areas shall be returned to their original

12. The topsoil to be used to fill the tree pits is to be plant specific. The topsoil for trees shall consist of a maximum

13. The contractor is responsible to ensure that all tree pits are well drained. The landscape contractor, without

15. All lawn areas are to be tiled to a depth of 6" and all foreign material removed which will inhibit the healthy

is to be placed over the areas to be seeded. The grass areas are to be fine graded to ensure that no

14. All lawn areas are to be seeded with grass seed appropriate for the sunlight conditions which exist on the site.

growth of the lawn. All old grass and grass roots are to be removed from the site. New topsoil of a minimum 4"

undulations occur on the lawn. The lawns are to be graded in such a way as to appear perfectly well tailored and even. The lawn topsoil is to be rolled and lightly irrigated prior to placing of the seed, the seed is not to be

16. Existing trees are to be protected during the preparation of the lawn areas. The roots of the trees are to be

17. All plants are to be handled with the best care and attention to ensure that the plants are not bruised, broken.

18. All trees are to be planted with the accepted standards of the American Association of Nurserymen. The trees

19. The trees must me staked in accordance with acceptablenursery practice to ensure that they are secure in the

21. Quantities as shown on the plan shall govern over plant list quantities. Contractor to verify pplant list totals with

23. VanMar Associates, Inc. is not responsible for the contractor's utilization of men, materials, equipment, or

24. Should the contractor discover discrepancies between the plans and field conditions, the "work" shall be

ground and will grow straight and uniform. The trees are to be wrapped if the contractor deems it necessary to

safety measures in performance of any work for this construction. The contractor assumes all responsibility for

stopped immediately and the engineer notified immediately to resolve the situation. Should the contractor make field corrections or adjustments without notifying the engineer, then the contractor assumes all responsibility for

25. It is the intent of these plans and specifications to provide 100% completed work and this shall be the project scope. It shall be distinctly understood that failure to notify the engineer of discrepancies found on these plans

and specifications, specifically and work which would naturally and/or normally be required to complete the

26. This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code

the proper height requirements and size in accordance with the Howard County Landscape Manual. In addition, no substitutions or relocation of required plantings may be made without prior review and approval from the

Department of Planning and Zoning. Any deviation from this approved Landscape Plan may result in denial or

delay in the release of landscape surety until such time as all required materials are planted and/or revisions

28. Financial surety for the required landscaping has been posted with the Grading Permits in the amount of

27. At the time of installment, all shrubs and other plantings herewith listed and approved for this site, shall be of

are to be be properly watered and backfilled during planting. All care must be taken to ensure that the trees are

tom, or damaged in any way which will affect the plants general appearance and well being.

20. Contractor is to provide a 1-year guarantee for all plant material and other work done on site.

upright, a tree's best side is exposed to the point of greatest visibility.

performing the work correctly and in conformance with all code requirements.

project shall not relieve the contractor of his responsibility to perform such work.

22. Plant material source: Within 100 mile radius of Maryland if possible.

cost to the owner, will replace all plant material which is affected by poor drainage.

of 2/3 existing topsoil from the site, which is cleaned and free of clay, a minimum of 1/3 organic material. These

9. All equipment and tools shall be placed so as not to interfere or hinder pedestrian and vehicular traffic flow. 10. During planting operations, excess and waste materials shall be promptly and frequently removed from the site. 11. All tree pits are to be excavated to a minimum depth to allow the tree root ball to be a minimum of 4" higher than finish grade, the tree root bal is to rest on undisturbed soil, or a compacted bed must be prepared for the tree root ball to rest on which will not subside causing the tree to sink below finish grade. All tree pits are to be

representative. Tree locations to be field adjusted as required to maintain 10' minimum clearance from all

utilities, street lights, and driveways. All locations are to be approved by the owners representative before excavation. The contractor shall note that in the case of a discrepancy between the scaled and figured

commencement of work. Quantities in the plant schedule are for the contractors convenience only and do not

4. The contractor shall furnish all plants in quantities and sizes to complete the work as specified in plant

delivery to the project site. Labels shall identify plants by name, species, and size. Labels shall not be removed

ensure conformance to national and local buildings codes and ordinances.

dimensions shown on these plans, the figured dimension shall govern.

a minimum of 12" larger on every side of the trees root ball.

materials are to be mixed prior to backfilling when planting.

laid on frozen or soaked soil.

quantities shown on plan.

and the Landscape Manual.

are made to applicable plans and certificates.

undisturbed during the cleaning of the topsoil.

protect the trees from sun scald or insect attack.

discrepancies prior to the beginning of all work, excavation, grading, landscaping, etc.

the specifications, the contractor shall remove all rejected materials from the site.

until the final inspection by the owners representative.

LANDSCAPE NOTES

constitute the final count.

′03′/08 | FLOODPLAIN REVISIONS /03/08 | COMMENTS 09/30/08