	SOILS LEGEND						
501L	NAME	CLASS					
₿rD	Brinklow channery loam, 15 to 25 percent slopes	В					
8†F	Brinklow-Blocktown channery loams, 25 to 65 percent slopes	B/C					
GgB	Glenelg loam, 3 to 0 percent slopes	В					
GgC	Glenelg loam, 8 to 15 percent slopes	В					
GmB	Glenville silt loam. 3 to 8 percent slopes	С					
GnB	Glenville—Baile silt loams, 0 to 8 percent slopes	С					
Mab	Manor loam, 3 to 0 percent slopes	В					
MaC	Manor loam, 8 to 15 percent slopes	В					
MaD	Manor loam, 15 to 25 percent slopes	В					
OcB	OcB Occoquan loam, 3 to 0 percent slopes B						

- * Hydric soils and/or contains hydric inclusions
- Generally only within 100-year floodplain areas

DESIGN NARRATIVE

Introduction:
This report will demonstrate how the criteria set forth in the Maryland Stormwater Design Manual, Volumes I and II (effective October 2000, revised May 2009) will be satisfied on this project. The goal of creating hydrology similar to that of "Woods in Good Condition" will be accomplished through the use of the practices contained within Chapter 5 of said manual. The achievement of this goal will remove the requirement of providing Channel Protection Volume.

General Site Conditions:

Sobrina Farms Subdivision, Lots 2 & 3 are zoned RC-DEO and are located on Tax Map 2. Parcel No. 39 of the Howard County, Maryland Tax Map Database System. The property consists of 17.66 acres of which approximately 6.83 acres is forested. Currently these two (2) existing lots are improved by two (2) existing houses as well as four (4) existing accessory structures and existing paved and unpaved driveways. The proposed lots will be served by private well and septic systems already approved by the Health Department. The five (5) proposed lots will be served by a common driveway (the existing driveway is proposed to be widened to 16 feet) along the northern portion of the property. Seven (7) specimen tree exists on-site, most of which are located on proposed Lot 10 in close proximity to the existing house. Per the 2004 Web Soil Survey, soils on-site consist of "BrD" Brinklow channery loam, "GnB" Glenville-Baile silt loam, "MaB", "MaC", "MaD", "McD" Manor loam, and "OcB" Occoquan loam. All of which are Type B soils, except for "GnB" which is Type C soils. Only Type B soils will be within the limits of disturbance. The Type C Soils will be within a proposed forest

Natural Resource Protection:

Environmentally sensitive features such as wetlands, streams, steep slopes, and floodplain exist on-site. An existing floodplain easement is recorded under plat # 8937. To ensure the protection of natural resources located on this site, all buffers will be honored by locating improvements away from environmentally sensitive areas which will be placed in forest conservation easements.

II. Maintenance of Natural Flow Patterns:

It is the intent of the proposed design to discharge runoff similar to the characteristics and direction of this site prior to any of the proposed

III. Reduction of impervious areas through better site design, alternative

surfaces and Nonstructural Practices The existing common driveway is proposed to be widened to 16 feet The design will make use of a non-rooftop disconnection credit and micro-bioretentions for a portion of the proposed driveways and micro-bioretentions, rooftop disconnection, and sheet flow to conservation area with an infiltration berm for the proposed houses and and portions of the individual driveways.

N. Integration of Erosion and Sediment Controls into Stormwater Strategy: It is anticipated that super fence diversion, silt fence, and super silt fence will be provided and that the use of sediment traps will not be

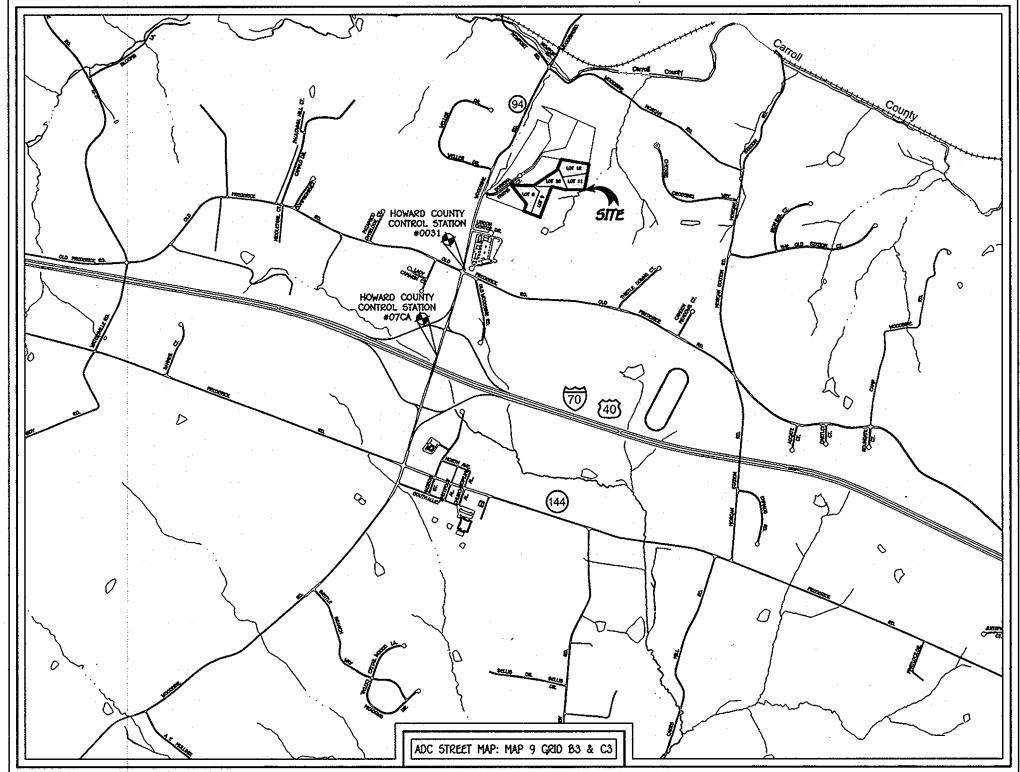
V. Implementation of ESD Planning Techniques and practices to the Maximum Extent Practicable (MEP) ESD planning techniques will be utilized to the maximum extent practicable to satisfy the SWM requirements put forth in Chapter 5 of the Maryland Department of the Environment's SWM Design Manual. All non-structural practices are being utilized to treat stormwater runoff.

VI. Request for a Subdivision or Design Manual Waiver: Subdivision Waiver, WP-13-007 was approved on August 7, 2012 to create forest conservation easements on buildable lots or parcels less

The full required ESD volume is being provided.

ENVIRONMENTAL CONCEPT PLAN SOBRINA FARMS SUBDIVISION, LOTS 8 THRU 12

TAX MAP No. 2 GRID No. 24 PARCEL NO. 39 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



VICINITY MAP

BENCHMARK INFORMATION

B.M.#1 - HOWARD COUNTY CONTROL STATION #0031 - HORIZONTAL - NAD '83) (LOCATED 91.0' SOUTHWEST OF BG&E 496061, 50.6' SOUTHEAST OF THE CENTERLINE OF MD. RT 94 (WOODBINE ROAD), AND 40.7' NORTHEAST OF THE CENTERLINE OF OLD FREDERICK ROAD) E 1,292,800.7066

ELEVATION = 632.207 - VERTICAL - (NAVD '88) B.M.#2 - HOWARD COUNTY CONTROL STATION #07CA - HORIZONTAL - (NAD '63)
(LOCATED 1.4' EAST OF GUARDRAIL ALONG SOUTHBOUND MD RT 94 (WOODBINE ROAD) AND 24.7' WEST OF THE CENTERLINE OF MD RT 94 (WOODBINE ROAD) APPROXIMATELY 0.1 MILES SOUTH OF THE RAMP

N 610.731.3284 E 1,292,224.3055 ELEVATION = 619.312 - VERTICAL - (NAVD '88)

DESCRIPTION - 55F-- 55F- SUPER SILT FENCE LIMIT OF DISTURBANCE XISTING FENCE LINE EX LIMIT OF TREES AND FOREST SOS SOS PROPOSED GRAVEL

GENERAL NOTES

- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION A 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
 THE CONTRACTOR SHALL NOTIFY (MISS UTILITY) AT 1-800-257-7777 AT LEAST 40 HOURS PRIOR TO ANY EXCAVATION WORK BEING
- 3. BOUNDARY SHOWN HEREON IS BASED ON PLAT #8936. TOPOGRAPHY SHOWN IS FROM HOWARD COUNTY GIS TOPOGRAPHY AT
- CONTOUR INTERVAL INTERPOLATED FOR 2' CONTOUR INTERVAL.

 4. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND
- STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 0031 AND 07CA WERE USED FOR THIS PROJECT. 5. Previous DPZ file Numbers: F-09-114, F-02-126, P-05-24, S-05-22, S-00-102, WP-11-190, WP-13-007.
- . Storm water management is in accordance with the m.d.e. Storm water design manual, volumes I & II, revised 2009. NON-STRUCTURAL PRACTICES IN ACCORDANCE WITH CHAPTER 5 ARE BEING UTILIZED. 7. THIS PROPERTY IS LOCATED OUTSIDE THE METROPOLITAN DISTRICT.
- 0. Any damage to the county's right—of—way shall be corrected at the developer's expense. 9. THE SUBJECT PROPERTY IS ZONED RC—DEO (PER DATE 02/02/04 COMPREHENSIVE ZONING PLAN AND THE COMP—LITE ZONING
- 9. THE SUBJECT PROPERTY IS ZONED KC-DED (MEK DATE OC/OC/OT CONTRELIED OF ZONE), STATE OF ZONED O7/20/06.

 10. This area designates a private sewerage easement of 10,000 square feet as required by the Maryland State Department of the environment for individual sewerage disposal improvements of any nature in this area are restricted until public sewerage is available. These easements shall become null and void upon connection to a public sewerage system. The county health officer shall have the authority to grant adjustments to the private sewerage easement. Recordation of a modified sewerage easement shall not be necessary.

 11. Steep slopes, Wetlands, Stream(s) and their buffers, 100 year floodplain, and forest stands exist on-site. 100 year floodplain evolution gased on plat #8936
- FLOODPLAIN SHOWN BASED ON PLAT #8936.
- 12. NO CLEARING, GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAM(S), OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS. 13. LANDSCAPING WILL BE PROVIDED AT THE FINAL PLAN STAGE OF THIS PROJECT, LANDSCAPING SHOWN IS CONCEPTUAL
- 14. FOREST CONSERVATION OBLIGATIONS WILL BE MET BY ON-SITE RETENTION OF EXISTING FOREST AT THE FINAL PLAN STAGE OF THIS 15. NO SOIL BORINGS ARE REQUIRED FOR THIS PROJECT, ONLY VERIFICATION OF DEPTH TO GROUNDWATER WILL BE REQUIRED 16. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE FINAL SUBDIVISION PLAN STAGE. THEREFORE, THE APPLICANT AND
- 17. APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIMISION PLAN/PLAT AND/OR SITE DEVELOPMENT PLAN AND/OR RED-LINE REVISION PLAN. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SUBDIVISION PLAN/PLAT AND/OR SITE DEVELOPMENT PLAN STAGES AND/OR RED-LINE REVISION PROCESS. THE APPLICANT AND CONSULTANT SHOULD
- THIS PROJECT PROGRESSES THROUGH THE PLAN REVIEW PROCESS. 19. PROPERTY IS SUBJECT TO WP-13-007. APPROVED ON AUGUST 7, 2012, GRANTING THE REQUEST TO WAIVE SECTION 16.120(b)(4)(iii)(b) OF THE AMENDED FIFTH EDITION - FOR A LOT OR BUILDABLE PRESERVATION PARCEL OF 10 ACRES OR GREATER IN SIZE, FLOODPLAINS, WETLANDS, STREAMS, THEIR BUFFERS, AND FOREST CONSERVATION EASEMENTS FOR AFFORESTATION. REFORESTATION. OR RETENTION MAY BE LOCATED ON THE LOT OR PARCEL IF THE BUILDING ENVELOPE IS NO CLOSER THAN 35 FEET FROM THESE ENVIRONMENTAL FEATURES AND SECTION 16.1209(a) OF THE AMENDED FIFTH EDITION - A PERSON REQUIRED TO PROVIDE RETENTION, AFFORESTATION OR REFORESTATION UNDER THIS SUBTITLE SHALL FURNISH FINANCIAL SECURITY IN THE FORM OF A BOND, AN IRREVOCABLE LETTER OF CREDIT, OR OTHER SECURITY APPROVED BY THE COUNTY. APPROVAL IS SUBJECT TO THE FOLLOWING

EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS (INCLUDING COMMENTS THAT MAY ALTER THE OVERALL SITE DESIGN) AS

- 1) THE APPLICANT SHALL PREPARE AND SUBMIT FINAL RESUBDIMISION PLAT FOR THE SUBJECT PROPERTY FOR REVIEW AND
- APPROVAL BY THE DEPARTMENT OF PLANNING AND ZONING.
 2) ON THE PLAT OF RESUBDIVISION PROVIDE A BRIEF DESCRIPTION OF THE WAIVER PETITION (WP-11-190 AND WP-13-007), AS A
- APPROVAL. 3) A PRESUBMISSION COMMUNITY MEETING SHALL BE HELD PRIOR TO THE SUBMISSION OF THE FINAL PLAT FOR THIS PROPERTY.
 4) THE SUBMISSION AND APPROVAL OF AN ENVIRONMENTAL CONCEPT PLAN (ECP) FOR STORMWATER MANAGEMENT PURPOSES IS
- REQUIRED PRIOR TO SUBMISSION OF THE RESUBDIVISION PLAT.
- THE FOREST CONSERVATION EASEMENT MUST BE ESTABLISHED AND CONSERVATION MANAGEMENT PRACTICES MUST BE ADHERED TO IN ACCORDANCE WITH THE FOREST CONSERVATION MANUAL.

 6) A PROFESSIONALLY CERTIFIED ENVIRONMENTAL ANALYSIS REPORT FOR THIS PROPERTY MUST ACCOMPANY THE PLAT SUBMISSION.
- NO GRADING, REMOVAL OF VEGETATIVE COVER AND TREES, PAVING AND NEW STRUCTURES ARE PERMITTED WITHIN THE 100 YEAR FLOODPLAIN, STREAM AND ITS BUFFER FOR PROPOSED LOT 11.
- 8) AT THE FINAL RESUBDIVISION PLAT SUBMISSION, THE APPLICANT SHOULD MAKE ALL PRACTICAL EFFORTS TO KEEP THE DISTANCE
- BETWEEN THE PROPOSED HOUSE SITES AND THE FOREST RETENTION EASEMENT AREAS AT A MAXIMUM TO AVOID FUTURE ENCROACHMENTS BY HOMEOWNERS INTO THE FOREST CONSERVATION EASEMENTS.
- 9) AT THE FINAL PLAT SUBMISSION, THE APPLICANT SHALL PROVIDE THE REQUIRED 35-FOOT BRL FROM THE STREAM BUFFER AND FOREST CONSERVATION EASEMENTS. 10) THE APPROVAL OF THIS RESUBOMISION PLAN IS SUBJECT TO THE APPROVAL BY THE HEALTH DEPARTMENT FOR THE WELL SITES
- AND SEPTIC EASEMENT.

 A. THIS_RESURDIVISION PLU IS LOCATED IN THE DESIGNATED AT GROWTH AREA OF HOWARD COUNTY PER THE PLANHOWARD 2030 THER MAP AND WOULD SUBJECT TO THE STATE'S SB-23G BUT IS CONSIDERED GRANDFATHERED TO SB-23G TO ALLOW THIS MAJOR SUBDIVISION BECAUSE THE PROPERTY DWNER, LAD APPLIED FOL A SOIL PERCOLATION TEST APPLICATION AND A PERCOLATION TEST PLANT TO THE GRAND GOUNTY HEALTH DEPARTMENT PRIOR TO JULY 1013,

SITE ANALYSIS DATA CHART

- A. TOTAL AREA OF THIS SUBMISSION = 17.66 AC.*. (AREA OF ALL PROPOSED LOTS)
- LIMIT OF DISTURBED AREA = 2.24 Ac. * PRESENT ZONING DESIGNATION = RC-DEO
- (PER 02/02/04 COMPREHENSIVE ZONING PLAN AND THE COMP-LITE ZONING AMENDMENTS DATED 07/28/06) PROPOSED USE: RESIDENTIAL
- PREVIOUS HOWARD COUNTY FILES: F-89-114, F-82-126, P-85-24, 5-85-22, 5-80-102, WP-11-190, WP-13-007.
- TOTAL AREA OF FLOODPLAIN LOCATED ON SITE 0.13 AC+ (EXISTING FLOODPLAIN EASEMENT) TOTAL AREA OF SLOPES IN EXCESS OF 25% = 0.30 AC+
- TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 0.91 AC. *
- TOTAL AREA OF EXISTING ON-SITE FOREST = 6.70 AC± (INCLUDES WETLANDS AND ASSOCIATED BUFFER)

TOTAL AREA OF PROPOSED FOREST = 4.90 ACRES (4.64 ACRES OF EXISTING FOREST & 0.26 ACRES OF REFORESTATION) TOTAL GREEN OPEN AREA = 1.69 AC+ L TOTAL IMPERVIOUS AREA = 0.55 AC+

FISHER, COLLINS & CARTER, INC ELLICOTT CTTY, MARYLAND 21042 DATE

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVEC BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER

THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 30306, EXPIRATION DATE: 01/12/2014.

JOHN A HARTNER & EDWINA HARTNER. TRUSTEES 610 SOBRINA FARMS COURT WOODBINE, MARYLAND 21797 (443) 878-8213

> OWNERS (LOT 3) JOHN EDWIN HARTNER, SR. & VERONICA M. HARTNER 620 SOBRINA FARMS COURT

WOODBINE, MARYLAND 21797

OWNERS (LOT 2)

9-30-13 Division of Land Development 10.16.13 Chief, Development Engineering Division Aw PARCEL NO. SOBRINA FARMS SUBDIVISION. LOTS & THRU 12 TAX/ZONE ELEC. DIST. BLOCK NO. ZONE CENSUS TR. X / 6040.01 RC-DEO WATER CODE SEWER CODE N/A

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

TITLE SHEET

SOBRINA FARMS SUBDIVISION, LOTS 8 THRU 12

RESUBDIVISION OF SOBRINA FARMS SUBDIVISION, LOTS 2 & 3 ZONED RC-DEO TAX MAP NO .: 2 GRID NO .: 24

PARCEL NO.: 39 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: APRIL 26, 2013 SHEET 1 OF 4

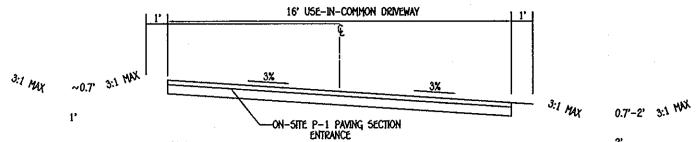
ECP-13-044

1:12006\06060\dwa\ECB\06060-6001 ECB Blan Sheet 2 - ECB dwg Sheet 2 - ECP 9/13/2013 11:15:41 AM

TYPICAL SECTION - INFILTRATION BERM

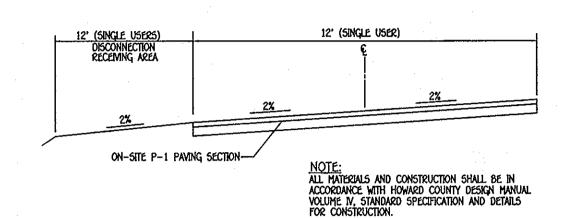
OPERATION AND MAINTENANCE SCHEDULE FOR INFILTRATION BERMS (M-4)

- 1. BERM SHOULD BE INSPECTED REGULARLY TO ENSURE THAT PONDING WATER DOES NOT CREATE
- 2. SIGNS OF CONCENTRATED FLOW AND OTHER SURFACE EROSION SHOULD BE REPAIRED TO PROMOTE SHEET FLOW.
- 3. A DENSE MAT OF VEGETATION SHOULD BE PRESENT AT ALL TIMES. VEGETATION SHOULD BE
- 4. WHEN INFILTRATION BERM ARE INCORPORATED IN A SYSTEM USING OTHER PRACTICES, THE MAINTENANCE CRITERIA FOR THAT PRACTICE SHALL ALSO BE CONSIDERED.



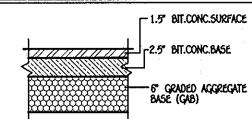
1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV. STANDARD SPECIFICATION AND DETAILS FOR 2. SWALES ARE FOR CONVEYANCE OF RUNOFF AND NOT UTILIZED FOR TREATMENT CREDIT.

16' USE-IN-COMMON DRIVEWAY & SWALE CROSS SLOPE SECTION



TYPICAL PRIVATE DRIVE CROSS SLOPE SECTION

OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED, DISCONNECTION OF NONROOFTOP RUNOFF (N-2) 1. MAINTENANCE OF AREAS RECEIVING DISCONNECTION RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE AREAS RECEIVING RUNOFF SHOULD BE PROTECTED FROM FUTURE COMPACTION OR DEVELOPMENT OF IMPERVIOUS AREA. IN COMMERCIAL AREAS FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.



P-1 DRIVEWAY PAVING SECTION

OPERATION & MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)

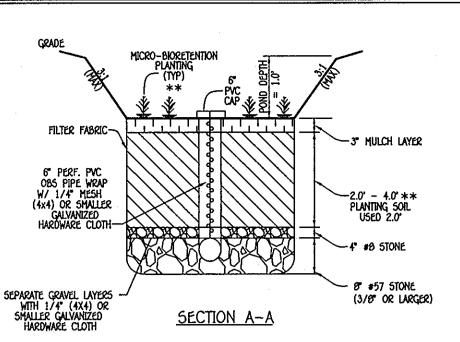
- A. THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING, PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING, ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING:
- 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUME II, TABLE A.4.1 AND 2.

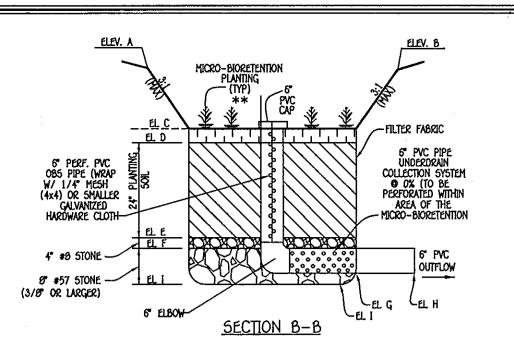
 B. THE OWNER SHALL PERFORM A PLANT IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL, TREAT DISEASED TREES AND SHRUBS AND REPLACE ALL DEFICIENT STAKES AND WIRES.
- C. THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER D. THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE

PER MONTH AND AFTER EACH HEAVY STORM.

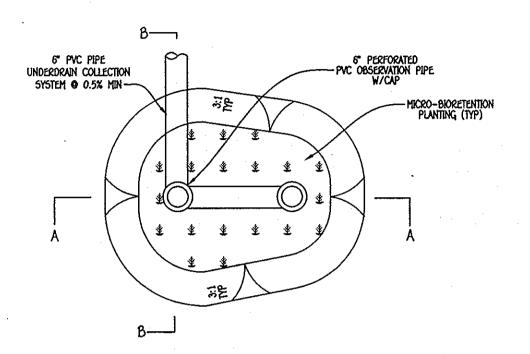
STORMWATER MANAGEMENT SUMMARY CHART AREA = 10.50 ACRES (LOTS 9, 11, & 12) RCN = 70 TARGET PE = 1.6"

Ξ		
		SWM SUMMARY CHART
	AREA ID	SWM TREATMENT PROVIDED
	LOT Ø	n/a (existing house & driveway)
	LOT 9	MICRO-BIORETENTION (M-6) & NON-ROOFTOP DISCONNECTION (N-2)
	LOT 10	n/a (existing house & driveway)
	LOT 11	MICRO-BIORETENTION (M-6), ROOFTOP DISCONNECTION (N-1), & NON-ROOFTOP DISCONNECTION (N-2)
	LOT 12	MICRO-BIORETENTION (M-6) & SHEET FLOW TO CONSERVATION AREA (N-3) WITH INFILTRATION BERM (M-4)

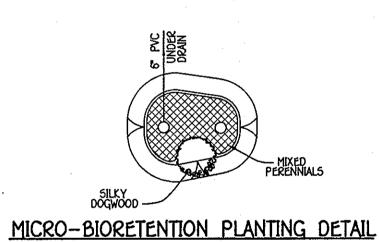


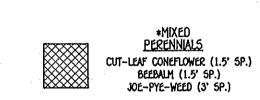


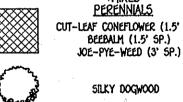
MICRO-BIORETENTION DETAIL (M-6)



MICRO-BIORETENTION									
BIORETENTION FILTER	Α	В	С	D	É	F	G	Н	I
1 (LOT 9)	608.00	608.00	607.00	606.75	604.75	604.42	603.92	603.68	603.75
2 (LOT 11)	560.00	560.00	559.00	558.75	556.75	556.42	555.92	555.52	555.75
3 (LOT 12)	568.00	560.00	567.00	566.75	564.75	564.42	563.92	563.64	563.75

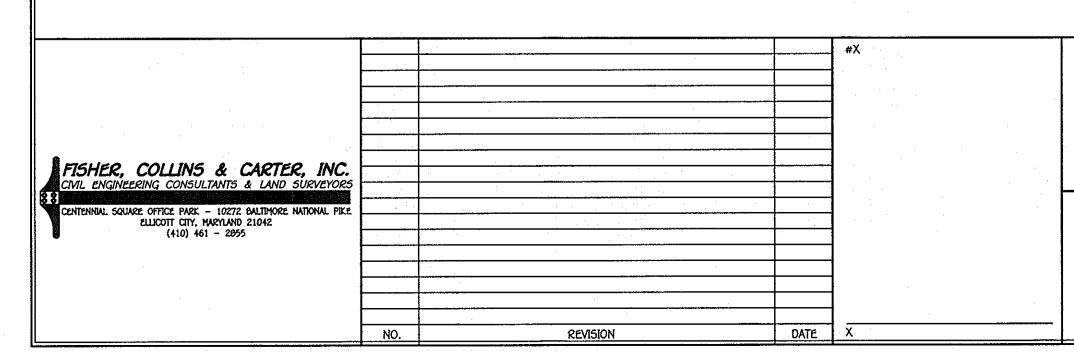






* SEE PLANT MATERIAL CHARTS PLANT MATERIAL MUST COVER FOR QUANTITIES AND SPACING AT LEAST 50% OF THE SURFACE AREA OF THE MICRO-BIORETENTION

_								
	MICRO-BIORETENTION PLANT MATERIAL							
	QUANTITY	NAME	MAXIMUM SPACING (FT.)					
	12	MIXED PERENNIALS	1.5 TO 3.0 FT.					
	i	SILKY DOGWOOD	PLANT AWAY FROM INFLOW LOCATION					



OWNERS (LOT 2) JOHN A HARTNER & EDWINA HARTNER, **TRUSTEES** 610 SOBRINA FARMS COURT WOODBINE, MARYLAND 21797

HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVEC BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER

(443) 878-8213

OWNERS (LOT 3) JOHN EDWIN HARTNER, SR. & veronica m. Hartner 620 SOBRINA FARMS COURT WOODBINE, MARYLAND 21797

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 9-30-13 Date 10.16.13 PARCEL NO. SOBRINA FARMS SUBDIVISION, LOTS & THRU 12 TAX/ZONE ELEC. DIST. BLOCK NO. ZONE CENSUS TR. X / RC-DEO WATER CODE SEWER CODE N/A

STORMWATER MANAGEMENT DETAILS & NOTES

SOBRINA FARMS SUBDIVISION, LOTS 8 THRU 12

RESUBDIVISION OF SOBRINA FARMS SUBDIVISION, LOTS 2 & 3 ZONED RC-DEO TAX MAP NO.: 2 GRID NO.: 24 PARCEL NO.: 39

FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: SEPTEMBER 13, 2013 SHEET 4 OF 4

ECP-13-044