

OPTION 3: PREVIOUSLY ADDRESSED (INCLUDING USE OF FC BANK)	FOREST CONSERVATION DATA SUMMARY
FILE NO.: SDF-06-056	PROJECT / SUBDIVISION NAME: CALVERT RIDGE
COMMENT ADDRESSED BY: F-94-54	CALVERT RIDGE

BENCH MARKS:
 HO. CO. MON.# 2645005 ELEV. 291.929
 Concrete Monument 0.3 ft. below surface
 at top of bank. N56275 1.48; E138395.97
 HO. CO. MON.# 2645006 ELEV. 174.53
 Concrete Monument 0.2 ft. below surface
 at top of bank. N557155.46; E1384992.24

SEWER HOUSE CONNECTION INFORMATION

LOT NO.	INV. @ MAIN	INV. @ EASEMENT	MIN. SEWERABLE ELEVATION	PROP. BASEMENT ELEVATION
17	226.82	227.63	232.7	236.5

GENERAL NOTES

1. THE SUBJECT PROPERTY IS ZONED R-20 PER THE 2/2/04 COMPREHENSIVE ZONING PLAN.
2. IN ACCORDANCE WITH SECTION 12B OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK (APPLIES FOR RESIDENTIAL SDPS)
3. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAMS OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100 YEAR FLOODPLAIN.
4. A DRIVEWAY SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 - WIDTH- 12'
 - SURFACE- 6" OF COMPACTED CRUSHER RUN BASE W/TAR AND CHIP COATING (1-1/2" MIN)
 - GEOMETRY- MAX. 15% GRADE, MAX. 10% GRADE CHANGE AND MIN. 45' TURNING RADIUS.
 - MAINTENANCE- SUFFICIENT TO INSURE ALL WEATHER USE.

GENERAL NOTES (continued)

11. ANY DAMAGE TO THE COUNTY'S RIGHT OF WAY SHALL BE CORRECTED AT THE DEVELOPERS EXPENSE.
12. REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAILS
13. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL LANDSCAPE SURETY FOR THE REQUIRED 3 TREES IN THE AMOUNT OF 900.00 IS PART OF THE BUILDERS GRADING PERMIT APPLICATION.
14. THERE ARE NO STREAMS, WETLANDS OR THEIR BUFFERS ON SITE.
15. THERE ARE NO FLOODPLAINS ON SITE
16. THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AS AMENDED BY COUNCIL BILL 45-2003 AND THE ZONING REGULATIONS AS AMENDED BY COUNCIL BILL 75-2003. CONSTRUCTION ON THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER/PETITION APPLICATION, OR BUILDING/GRADING PERMIT.
17. NO CLEARING OF EXISTING VEGETATION IS PERMITTED WITHIN THE LANDSCAPE EDGE FOR WHICH CREDIT IS BEING TAKEN; HOWEVER, LANDSCAPE MAINTENANCE IS AUTHORIZED.
18. THE FOREST CONSERVATION OBLIGATION FOR THIS SITE DEVELOPMENT PLAN WAS APPROVED UNDER FINAL PLAN F-94-054 IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE.
19. THE STAKING OF FOUNDATIONS PRIOR TO CONSTRUCTION TO ENSURE COMPLIANCE WITH REGULATORY BUILDING RESTRICTION LINES IS RECOMMENDED.

LANDSCAPE NOTES

THE OWNER, TENANT AND /OR THEIR AGENTS SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE REQUIRED LANDSCAPING, PLANT MATERIALS, BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.

AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE SHALL BE OF THE PROPER HEIGHT REQUIREMENTS 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 ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.

NO CLEARING OF EXISTING VEGETATION IS PERMITTED WITHIN THE LANDSCAPE EDGE FOR WHICH CREDIT IS BEING TAKEN; HOWEVER LANDSCAPE MAINTENANCE IS AUTHORIZED.

DEVELOPERS/BUILDERS CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF NOTICE, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, AND A COPY OF THIS PLAN WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

NAME: *Charles B...* DATE: 8/22/06

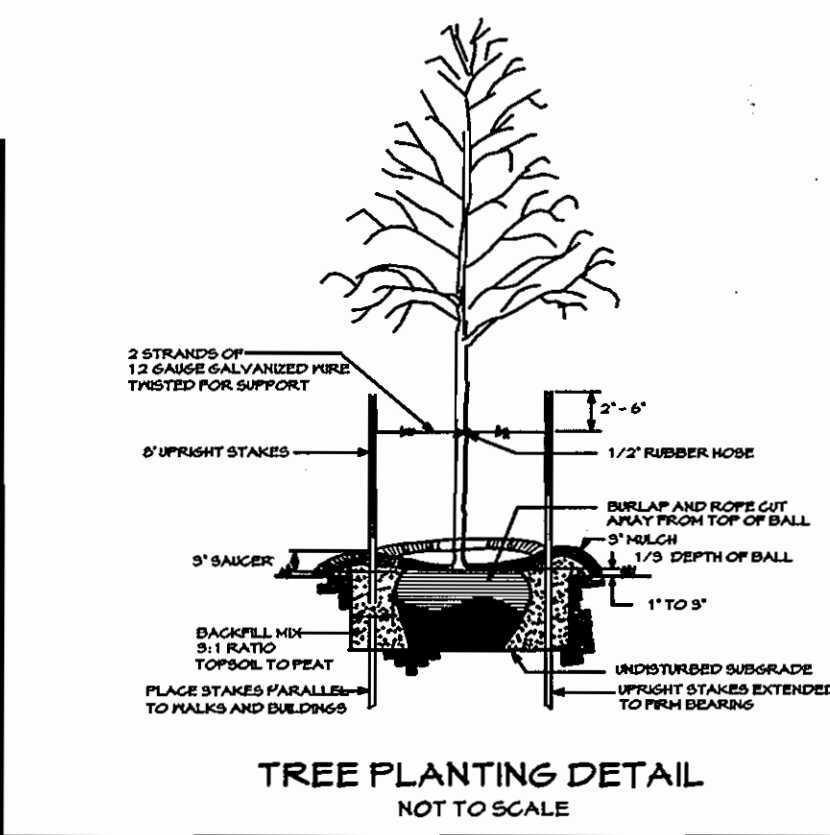
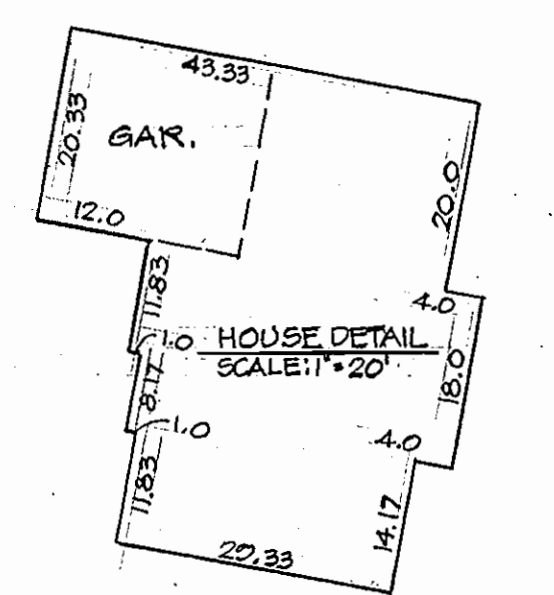
Developer's/Owner's Landscape Certificate
 I/we certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Code and the Landscape Manual.
 Signature: *Charles B...* DATE: 8/22/06

LANDSCAPING NOTES
 1. This plan has been prepared in accordance with Section 16.124 of the Howard County Code and the Landscape Manual. Financial Surety for the required landscaping has been posted as part of the builder's grading permit application in the amount of \$400.00 for three (3) shade trees.
 2. At the time of plant installation, all shrubs and trees listed and approved on the Landscape Plan, shall comply with the proper height requirement in accordance with the Howard County Landscape Manual. In addition, no substitutions or relocations of the required plantings may be made without prior review and approval from the Department of Planning and Zoning. Any deviation from the 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 are made to the applicable plans.

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 Signature: *Jim Magler* DATE: 9/21/06
 USED: NATURAL RESOURCE CONSERVATION SERVICE
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SCD
 Signature: *John K. Plante* DATE: 9/21/06
 HOWARD SOIL CONSERVATION DISTRICT
 APPROVED FOR PUBLIC WATER AND SEWERAGE SYSTEMS

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Signature: *John J. Dwyer* DATE: 9/13/06
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 Signature: *Mark J. Lajelle* DATE: 9/22/06
 CHIEF, DIVISION OF LAND DEVELOPMENT
 Signature: *Chris Brown* DATE: 8/22/06
 DIRECTOR

HOUSE GRADING LAYOUT
 SCALE: 1"=30'



SCHEDULE A PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO PERIMETER PROPERTIES				ADJACENT TO ROADWAYS
	A REAR	N/A SIDE	A SIDE	NONE FRONT	
LINEAR FT. OF ROADWAY FRONTAGE/PERIMETER	(114.13') P-1	(130.45') P-2	(164.30') P-3	(104.00') P-4	
CREDIT FOR EXISTING VEGETATION	YES (85')	N/A	N/A	N/A	
CREDIT FOR WALL, FENCE OR BERM	N/A	N/A	N/A	N/A	
# OF PLANTS REQ.					
SHADE TREES	0	0	3	0	
EVERGREENS	0	0	0	0	
SHRUBS	0	0	0	0	
# OF PLANTS PROVIDED					
SHADE TREES	0	0	3	0	
EVERGREENS	0	0	0	0	
SHRUBS	0	0	0	0	
OTHER TREES (2:1 SUBSTITUTION)	N/A	N/A	N/A	N/A	

SHEET INDEX:
 1. PLAN & GENERAL NOTES
 2. SEDIMENT CONTROL NOTES & DETAILS

TABLE 1 PERIMETER LANDSCAPE TREES-BASED ON ADJACENT USE

LANDSCAPE EDGE TYPE	LANDSCAPE CHARACTER	SHADE TREES/ EVERGREEN TREES/ SHRUBS/ LINEAR FEET	EVERGREEN TREES/ SHRUBS/ LINEAR FEET
A	LIGHT BUFFER	(1:60) 3	0

TABLE 3 LANDSCAPE EDGES ADJACENT TO PERIMETER PROPERTIES

LAND USE	ADJACENT LAND USE	LANDSCAPE TYPE
SINGLE FAMILY DETACHED	ALL USES	A

CLSI
 Civil, Land Surveying & Environmental Consultants
 www.clsi-civileng.com
 FREDERICK OFFICE: 3111 Regatta Court, Suite B, Frederick, MD 21704-5318 (301) 662-1799 FAX (301) 662-8004
 WESTMINSTER OFFICE: 439 East Main Street, Westminster, MD 21157-5539 (410) 848-1790 FAX (410) 848-1791
 Surveyed By: CLSI Drawn By: BS6
 Computed By: CLSI Checked By: FER/AJD

PREVIOUS HOWARD COUNTY FILES
 SDP-96-89, SDP-98-64
 F-94-54, S-89-56, P-89-78, MP-92-149
 WATER AND SEWER CONTRACT NO. 14-3120-D
 OWNER/DEVELOPER
 HARMONY BUILDERS, INC.
 4228 Columbia Road
 Ellicott City, Maryland 21042
 Phone: 410-461-0833
 Fax: 410-461-3042

3/27/07 REVISED HOUSE LAYOUT DETAIL PER REDLINE WALKTHRU

ADDRESS CHART

LOT/PARCEL NO.	STREET ADDRESS
17	7079 CALVERT DRIVE

PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION/AREA	LOT NO.
CALVERT RIDGE	N/A	LOT 17
PLAT NO.	BLOCK NO.	ZONE
MPR 11888	12	R-20
TAX MAP NO.	ELECT. DIST.	CENSUS TRACT
37	FIRST	6011.01
WATER CODE	SEWER CODE	
004	2152700	

SITE DEVELOPMENT PLAN SINGLE FAMILY RESIDENTIAL CALVERT RIDGE LOT 17 PLAN & GENERAL NOTES

RECORDED AT PLAT: 11888
 TAX MAP: 37, BLOCK: 12, PARCEL: 94
 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1"=30' DATE: OCT 2005 SHEET: 1/2
 County File No. SDP-06-056

CAD Drawing File Name:

130905 (2005) 7/9/06 10:43:11 AM Aug. 18, 2006 08:15:22

Standard Sediment Control Notes

1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (313-1855).
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 5.1), sod (Sec. 5.4), temporary seeding (Sec. 5.0) and mulching (Sec. 5.2). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
7. Site Analysis:
 - Total Area of Site: 0.37 Acres
 - Area Disturbed: 0.14 Acres
 - Area to be roofed or paved: 0.09 Acres
 - Area to be vegetatively stabilized: 0.10 Acres
 - Total Cut: 400 Cu Yds.
 - Total Fill: 400 Cu Yds.
 - Offsite waste/borrow area location: N/A
8. Any sediment control practice, which is disturbed by grading activity for placement of utilities, must be repaired on the same day of disturbance.
9. Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
11. Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized by the end of each workday, whichever is shorter.

STANDARDS AND SPECIFICATIONS FOR TOPSOIL CONSTRUCTION AND MATERIAL SPECIFICATIONS

- I. Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.
- II. Topsoil Specifications - Soil to be used as topsoil must meet the following:
 - i. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1" in diameter.
 - ii. Topsoil must be free of plants or plant parts such as bermuda grass, quack grass, Johnson grass, nutgrass, poison ivy, thistle, or others as specified.
 - iii. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- III. For sites having disturbed areas under 5 acres:
 - i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
 - IV. For sites having disturbed areas over 5 acres:
 - i. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - a) pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 - b) Organic content of topsoil shall be not less than 1.5 percent by weight.
 - c) Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 - d) No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials. Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.
 - ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
 - V. Topsoil Application
 - i. When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, earth dikes, slope silt fence and sediment traps and basins.
 - ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4"-8" higher in elevation.
 - iii. Topsoil shall be uniformly distributed in a 4"-8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil.
 - iv. preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
 - v. Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.
 - vi. Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:
 - i. Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
 - a) Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
 - b) Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
 - c) Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
 - ii. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

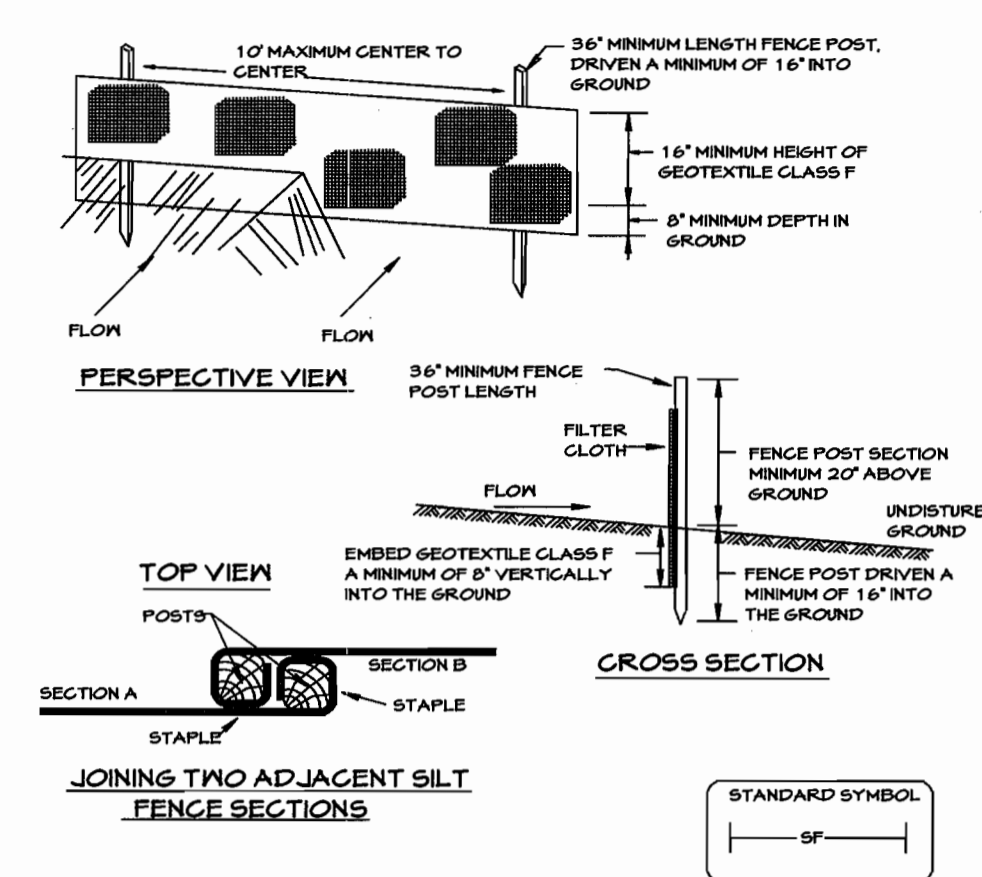
HOWARD SOIL CONSERVATION DISTRICT PERMANENT SEEDING NOTES

- APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
- SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
- 1) PREFERRED- APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (42 LBS./1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (4 LBS./1000 SQ. FT.)
 - 2) ACCEPTABLE- APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (42 LBS./1000 SQ. FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.
- SEEDING- FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS./1000 SQ. FT.) OF KENTUCKY 31" TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS. KENTUCKY 31" TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.5 LBS./1000 SQ.FT.) OF MEEPING LOVEGRASS, DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28. PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL-ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2)- USE SOD. OPTION (3)- SEED WITH 60 LBS./ACRE KENTUCKY 31" TALL FESCUE AND MULCH WITH 2 TON/ACRE WELL-ANCHORED STRAW.
- MULCHING- APPLY 1-1/2 TO 2 TONS PER ACRE (10 TO 40 LBS./1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING A MULCH ANCHORING TOOL OR 2 1/2 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS ON SLOPES OF 8 FEET OR HIGHER, USE 3-8 GALLONS PER ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING.
- MAINTENANCE- INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT TERM VEGETATIVE COVER IS NEEDED.
- SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.)
- SEEDING: FOR PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 15 THROUGH OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ. FT.) FOR THE PERIOD OF MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS. PER ACRE OF MEEPING LOVEGRASS (0.7 LBS./1000 SQ.FT.) FOR THE PERIOD OF NOVEMBER 16 THROUGH NOVEMBER 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.
- MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (10 TO 40 LBS./1000 SQ.FT.) OF UNROTTED NEED FREE SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 2 1/2 GAL. PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 3-8 GAL. PER ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING.
- REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

DETAIL 22 - SILT FENCE

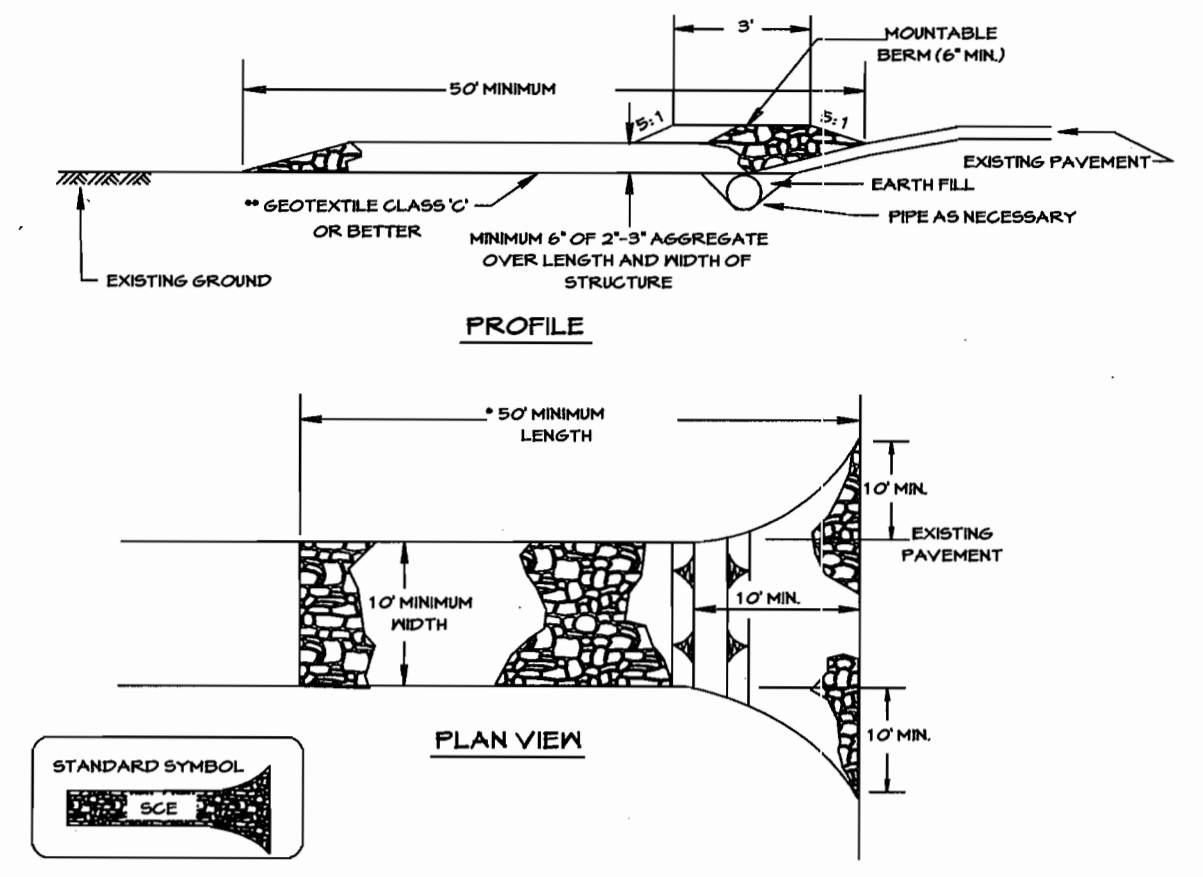


Construction Specifications

1. FENCE POSTS SHALL BE A MINIMUM OF 36" LONG DRIVEN 16" MINIMUM INTO THE GROUND. POSTS SHALL BE 1 1/2" X 1 1/2" SQUARE (MINIMUM) CUT OR 1 1/2" DIAMETER (MINIMUM) ROUND AND SHALL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS WILL BE STANDARD T OR U SECTION RESISTING NOT LESS THAN 1,000 POUNDS PER LINEAR FOOT.
 2. GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH NAILS OR STAPLES AT TOP AND MID-SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:

TENSILE STRENGTH	50 LBS./IN (MIN)	TEST: MSMT 504
TENSILE MODULUS	20 LBS./IN (MIN)	TEST: MSMT 504
FLOOR RATE	0.3 GAL./17.7 MINUTE (MAX)	TEST: MSMT 322
FILTERING EFFICIENCY	75% (MIN)	TEST: MSMT 322
 3. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS.
 4. SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHED 50% OF THE FABRIC HEIGHT.
- Silt Fence Design Criteria**
- | Slope Steepness | (Maximum) Slope Length | |
|------------------|------------------------|-------------------|
| | Silt Fence Length | Silt Fence Length |
| Flatter than 5:1 | unlimited | unlimited |
| 5:1 to 10:1 | 125 feet | 1,000 feet |
| 10:1 to 5:1 | 100 feet | 750 feet |
| 5:1 to 3:1 | 60 feet | 500 feet |
| 3:1 to 2:1 | 40 feet | 250 feet |
| 2:1 and steeper | 20 feet | 125 feet |
- NOTE: IN AREAS OF LESS THAN 2% SLOPE AND SANDY SOILS (USDA GENERAL CLASSIFICATION SYSTEM SOIL CLASS A) MAXIMUM SLOPE LENGTH AND SILT FENCE LENGTH WILL BE UNLIMITED. IN THESE AREAS A SILT FENCE MAY BE THE ONLY PERIMETER CONTROL REQUIRED.

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



1. LENGTH - MINIMUM OF 50' (50' FOR SINGLE RESIDENCE LOTS).
2. WIDTH - 10' MINIMUM SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
3. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING PAVEMENT PRIOR TO PLACING STONE. THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY RESIDENCES TO USE GEOTEXTILE.
4. STONE - CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.
5. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A PORTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE. PIPES TO BE SIZED ACCORDING TO THE DRAINAGE. WHEN THE SCS IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF TO BE CONVEYED. A 6" MINIMUM BEAM IS REQUIRED.
6. LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.

CONSTRUCTION SEQUENCE

1. OBTAIN GRADING PERMIT. (1 DAY)
2. INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN. (1 DAY)
3. CONSTRUCT DWELLING. (90 DAYS)
4. FINE GRADE LOT AND INSTALL DRIVEWAY. (1 DAY)
5. INSTALL PERMANENT SEEDING AND MULCHING. (1 DAY)
6. INSTALL LANDSCAPING. (1 DAY)
7. ONCE LOT IS PERMANENTLY STABILIZED AND PERMISSION IS GRANTED BY E & S INSPECTOR, REMOVE SEDIMENT AND EROSION CONTROL DEVICES. (2 DAYS)

STOCKPILE / TOPSOIL NOTES

1. STOCKPILING WILL NOT BE ALLOWED ON ANY IMPERVIOUS AREA.
2. ALL STOCKPILES LEFT AT THE END OF THE DAY WILL NEED TO BE TEMPORARILY STABILIZED UNTIL THEY ARE AGAIN DISTURBED UNLESS THEY ARE WITHIN EXISTING PERIMETER SEDIMENT CONTROLS.
3. ALL STOCKPILE AREAS SHALL BE CONTINUED WITHIN PERIMETER CONTROLS. IN THE EVENT THAT STOCKPILE AREAS MUST BE LOCATED OUTSIDE DISTURBED AREAS, THE LOCATION SHALL BE AS DIRECTED BY THE INSPECTOR IN THE FIELD.

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Jim Myers 9/21/06
 USA - NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD S.C.D.

John K. Robertson 9/21/06
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED FOR PUBLIC WATER AND SEWERAGE SYSTEMS

COUNTY HEALTH OFFICER DATE
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

William 9/26/06
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Stamulis 9/26/06
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Mark A. Coyle 9/27/06
 DIRECTOR DATE

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Anthony J. Dreyer 9/26/06
 ANTHONY J. DREYER
 PROFESSIONAL ENGINEER REG. NO. 32574

DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONS INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Chris Brown 8/22/06
 CHRIS BROWN DATE



Engineers • Surveyors • Landscape Architects

CLSI
 Civil Development & Environmental Consultants
 www.clsi-civileng.com

FREDERICK OFFICE: 5111 Pegasus Court, Suite B, Frederick, MD 21704-8318 (301) 662-1799 FAX (301) 662-8004

WESTMINSTER OFFICE: 439 East Main Street, Westminster, MD 21157-5339 (410) 848-1790 FAX (410) 848-1791

Surveyed By: *CLSI* Drawn By: *BSG*
 Computed By: *CLSI* Checked By: *FER/AJD*

PREVIOUS HOWARD COUNTY FILES

SDP-96-89, SDP-98-64
 F-94-54, S-89-56, P-89-78, WP-92-149
 WATER AND SEWER
 CONTRACT NO. 14-3120-D

OWNER/DEVELOPER

HARMONY BUILDERS, INC.
 4228 Columbia Road
 Ellicott City, Maryland 21042
 Phone: 410-461-0833
 Fax: 410-461-3042

SITE DEVELOPMENT PLAN
 SINGLE FAMILY RESIDENTIAL
CALVERT RIDGE
 LOT 17
 SEDIMENT CONTROL NOTES & DETAILS

RECORDED AT PLAT: 11888
 TAX MAP: 37, BLOCK: 12, PARCEL: 94
 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: 1" = 30' DATE: OCT 2005 SHEET: 2 / 2

County File No. SDP-06-056