

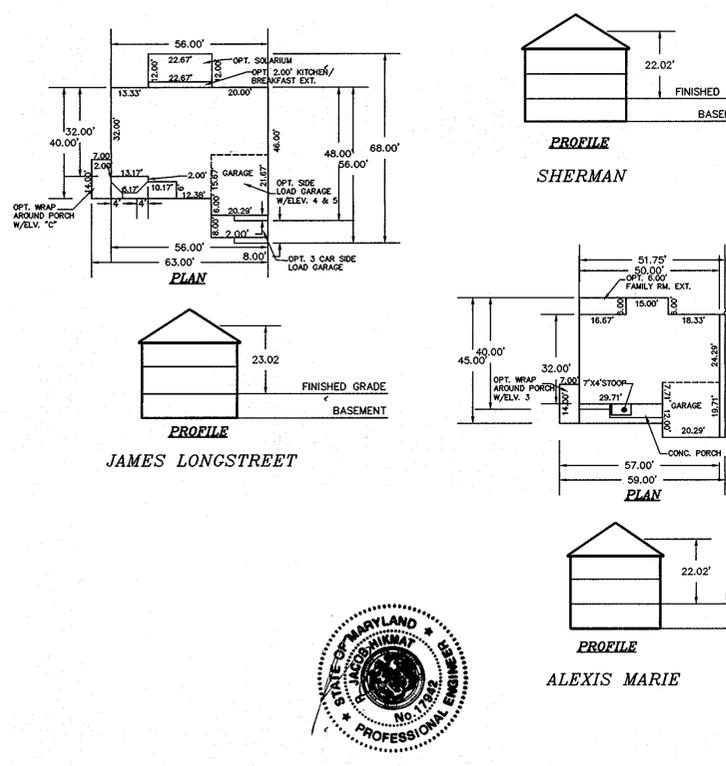
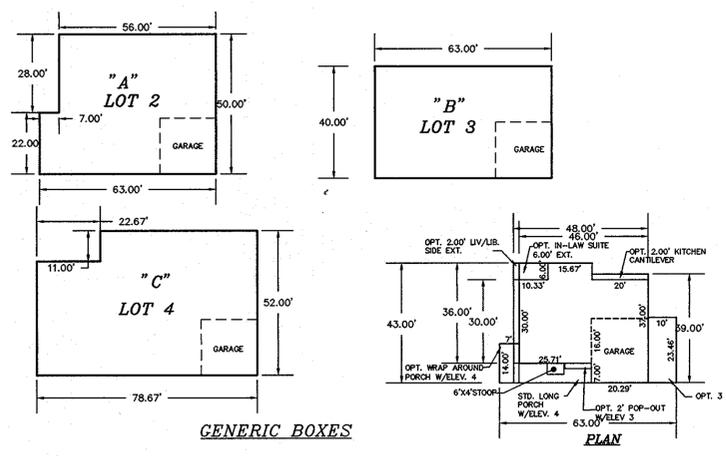
# SITE DEVELOPMENT PLAN

## BONNIE BRANCH POINT

### LOTS 2-4

## SECOND ELECTION DISTRICT

## HOWARD COUNTY, MARYLAND



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 17942, EXP. DATE 9/3/10.

**DEVELOPER'S CERTIFICATE**

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING OF THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER: *Donald R. Reuver, Jr.* DATE: 4/2/09

PRINTED NAME OF DEVELOPER: DONALD R. REUVER, JR.

**ENGINEER'S CERTIFICATE**

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 AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER: *R. Jacob Hikmat* DATE: 4/2/09

PRINTED NAME OF ENGINEER: R. JACOB HIKMAT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

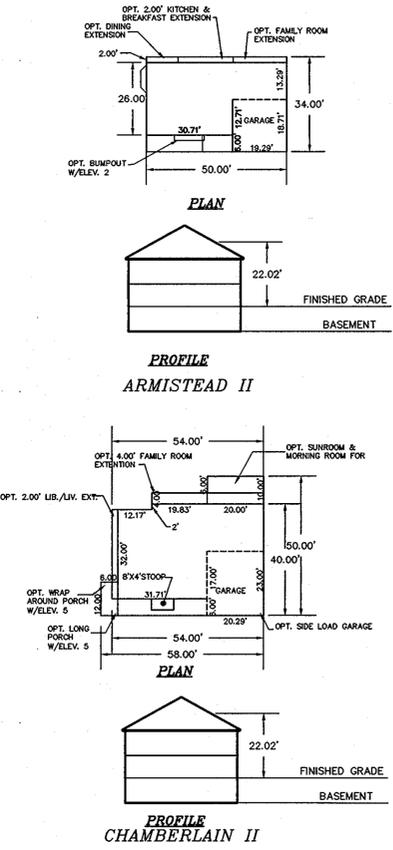
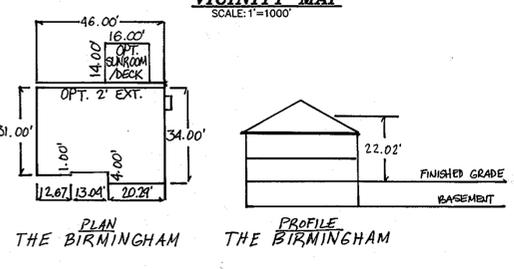
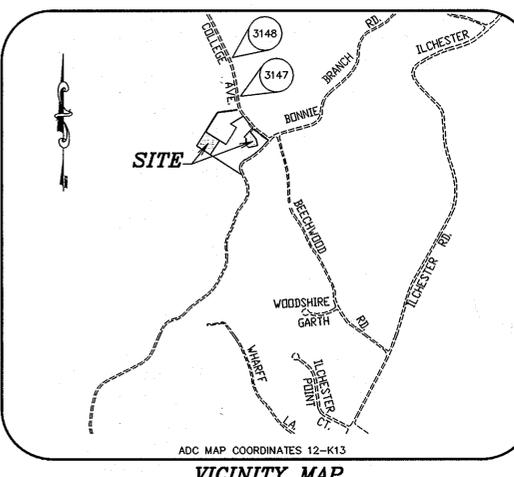
CHIEF DEVELOPMENT ENGINEERING DIVISION: *John R. Blanton* DATE: 4/2/09

CHIEF DIVISION OF LAND DEVELOPMENT: *John R. Blanton* DATE: 4/2/09

DIRECTOR: *John R. Blanton* DATE: 4/2/09

**OWNER**

TAYLOR GIFT, LLC  
34 OLD GRANARY COURT  
BALTIMORE, MD 21228  
443-367-0422



29. A DECLARATION OF USE-IN-COMMON EASEMENT AND OF MAINTENANCE OBLIGATION FOR THE COMMON ACCESS AREA DRIVEWAY SERVING LOTS 1 AND 2 HAS BEEN RECORDED IN THE LAND RECORDS OF HOWARD COUNTY - LIBER 11142, FOLIO 283.
30. IN ACCORDANCE WITH SECTION 16-120(b)(4)(ii) OF SUBDIVISION REGULATIONS THE 35' ENVIRONMENTAL SETBACK BRL SHOWN ON LOTS 2, 3 AND 4 COINCIDES WITH THE BOUNDARY OF 35' ENVIRONMENTAL SETBACK FROM THE 75' STREAM BUFFER, THE 25' WETLAND BUFFER AND/OR THE EDGE OF THE 25% OR GREATER STEEP SLOPES; THEREFORE, THE DISTANCE FROM THE BRL'S ON THESE LOTS MAY VARY IN DISTANCE FROM THE PROPERTY LINES, BUT SHALL NOT BE LESS THAN WHAT IS REQUIRED BY SECTION 108.D OF THE R-20 ZONING REGULATION.
31. WAIVER PETITION, WP-06-030, REQUESTING TO WAIVE SECTION 16.120(b)(4)(iii)(C) USABLE DESIGN WAS DENIED ON DECEMBER 8, 2006.
32. NO CLEARING OF EXISTING VEGETATION IS PERMITTED WITHIN THE LANDSCAPE EDGE FOR WHICH CREDIT IS BEING TAKEN; HOWEVER, LANDSCAPE MAINTENANCE IS AUTHORIZED.
33. THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND 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 OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
34. 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.
35. STOCKPILING WILL NOT BE PERMITTED ON SITE.
36. COLLEGE AVENUE IS A SCENIC ROAD. SCENIC ROAD REQUIREMENTS WERE ADDRESSED UNDER F-07-079, PLAT NUMBER 19805.

GENERIC TYPE	JAMES LONGSTREET	AUSTIN WESLEY	ALEXIS MARIE	SHERMAN	ARMISTEAD II	CHAMBERLAIN II	RADCLIFFE
A (LOT 2)	NO 3 CAR SIDE LOAD GARAGE NO SOLARIUM	NO 3 CAR GARAGE	ALL OPTIONS	ALL OPTIONS	ALL OPTIONS	ALL OPTIONS	DOES NOT FIT
B (LOT 3)	DOES NOT FIT	DOES NOT FIT	DOES NOT FIT	DOES NOT FIT	ALL OPTIONS	NO REAR EXTENSIONS	DOES NOT FIT
C (LOT 4)	NO 3 CAR SIDE LOAD GARAGE NO SOLARIUM	ALL OPTIONS	ALL OPTIONS	ALL OPTIONS	ALL OPTIONS	ALL OPTIONS	ALL OPTIONS

### GENERAL NOTES

1. THE SUBJECT PROPERTY IS ZONED R-20 PER THE 02/02/04 COMPREHENSIVE ZONING PLAN AND PER THE "COMP LITE" ZONING AMENDMENTS EFFECTIVE 7/28/06.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
3. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTIONS AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
4. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS PRIOR TO ANY EXCAVATION WORK:
  - MISS UTILITY 1-800-257-7777
  - VERIZON TELEPHONE COMPANY (410) 725-9976
  - HOWARD COUNTY BUREAU OF UTILITIES (410) 313-4900
  - AT&T CABLE LOCATION DIVISION (410) 393-3533
  - BALTIMORE GAS & ELECTRIC (410) 685-0123
  - STATE HIGHWAY ADMINISTRATION (410) 531-5533
  - HOWARD COUNTY DEPT. OF PUBLIC WORKS/CONSTRUCTION INSPECTION DIVISION (410) 313-1880
5. PROJECT BACKGROUND:
  - LOCATION: TAX MAP 31, PARCEL 399, GRID 4, LOTS 2-4.
  - ZONING: R-20
  - ELECTION DISTRICT: 2ND
  - TOTAL AREA: 13,354 SQ. FT.
  - LIMIT OF DISTURBED AREA: 0.962 AC
  - AREA OF PLAN SUBMISSION: 1.35 AC ±
  - MINIMUM LOT SIZE: 18,168 SQ. FT.
  - PROPOSED USE FOR SITE: RESIDENTIAL
  - TOTAL NUMBER OF UNITS: 3
  - TYPE OF PROPOSED UNIT: SFD
  - DPZ FILES: F-07-079, WP-07-107, WP-06-030, F-05-991, SDP-03-149
  - DEED REFERENCE: 10538/381
6. TWO FOOT CONTOUR TOPOGRAPHY AND EXISTING CONDITIONS BASED ON AERIAL TOPOGRAPHIC SURVEY BY WINN & ASSOCIATES, INC. DATED AND FILED ON MARCH 25, 1995.
7. HORIZONTAL AND VERTICAL DATUMS ARE RELATED TO THE MARYLAND NAD 83 AS PROJECTED FROM HOWARD COUNTY CONTROL STATIONS NO. 3147 & 3148 (ALL UNITS IN FEET).
  - STA No. 3147 N 575,798.0794 E 1,375,601.7694 EL = 335.987
  - STA No. 3148 N 576,015.4313 E 1,375,770.4364 EL = 379.248
8. WATER SERVICE AND SEWER SERVICE IS PROVIDED BY CONTRACT NO. 14-3615-D.
9. FLOODPLAIN STUDY PREPARED BY MILDENBERG, BOENDER & ASSOCIATES, INC. AND PREVIOUSLY APPROVED UNDER AUTUMN VIEW SECTION III, F-99-045.
10. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE 100 YEAR FLOODPLAIN, WETLAND, STREAM AND/OR THE FOREST CONSERVATION AREA AND STEEP SLOPES THAT ARE SHOWN ON THIS PLAN UNLESS APPROVED BY THE DEPARTMENT OF PLANNING AND ZONING OR OTHER APPLICABLE REGULATORY AGENCY.
11. NO HISTORIC STRUCTURES, CEMETRIES, OR GRAVE SITES EXIST ON-SITE. SITE IS ADJACENT TO A DESIGNATED SCENIC ROAD.
12. PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT. PUBLIC WATER AND SEWER WILL BE UTILIZED.
13. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES ON SITE PRIOR TO COMMENCING CONSTRUCTION.
14. ALL DRIVEWAYS ENTRANCES TO BE H.C.STD. R-6.06 UNLESS OTHERWISE NOTED.
15. DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
  - A) WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE).
  - B) SURFACE - 8 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATINGS (1-1/2" MIN.).
  - C) GEOMETRY - MAXIMUM 14% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM OF 45-FOOT TURNING RADIUS.
  - D) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING).
  - E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.
  - F) STRUCTURE CLEARANCES - MINIMUM 12 FEET
  - G) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
16. PER SECTION 128 OF THE 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.
17. THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.120 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY THE ON-SITE RETENTION OF 1.76 ACRES OF ON-SITE EXISTING FOREST SHOWN AS FOREST CONSERVATION EASEMENT "A". ADDITIONALLY, THIS PROJECT COMPLIES WITH THE CONDITIONS OF APPROVAL OF WP-07-107 BY PROVIDING 0.23 ACRES OF ON-SITE AFFORESTATION WHICH IS SHOWN AS FOREST CONSERVATION EASEMENT "B". SURETY IN THE AMOUNT OF \$20,000 WAS POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT UNDER (F-07-079) TO ENSURE THE COMPLETION OF THE FOREST CONSERVATION OBLIGATION FOR THIS PROJECT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, EXCEPT AS SHOWN ON A PLAN APPROVED BY THE DEPARTMENT OF PLANNING AND ZONING. HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
18. LANDSCAPING HAS BEEN PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED PERIMETER LANDSCAPING (7 SHADE TREES) IN THE AMOUNT OF \$ 2,100.00 WILL BE POSTED AS PART OF THE DEPARTMENT OF PUBLIC WORKS STORMWATER MANAGEMENT DEVELOPER'S AGREEMENT.
19. WETLANDS AND FOREST STAND DELINEATION PREPARED BY ECO-SCIENCE PROFESSIONALS, INC., ON OR ABOUT APRIL 2003.
20. FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL, AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE ONLY AND NOT ONTO THE FLAG OR PIPE STEM LOT DRIVEWAY.
21. OPEN SPACE REQUIREMENTS HAVE BEEN SATISFIED UNDER F-07-079.
22. THE OWNER, TENANT AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING PLANT MATERIALS, BERMS, FENCES AND WALLS (AS REQUIRED UNDER F-07-079). ALL PLANTS MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
23. NO CLEARING OF EXISTING VEGETATION IS PERMITTED WITHIN THE LANDSCAPE EDGE FOR WHICH CREDIT IS BEING TAKEN. FOREST MAINTENANCE IS AUTHORIZED.
24. STORMWATER MANAGEMENT Rev.Wqv.Cpv. & Qp FOR LOTS 2-4 IS PROVIDED BY THE USE OF RAINGARDENS, DRY SWALE, LEVEL SPREADERS & BIORETENTION. ALL FACILITIES ARE PRIVATELY OWNED AND MAINTAINED.
25. WAIVER PETITION, WP-07-107 WAS APPROVED ON June 25, 2007, WAIVING SECTIONS 16.120 (b)(4)(i) AND 16.120 (b)(4)(ii) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS TO ALLOW RESIDENTIAL LOTS TO HAVE AN IRREGULAR LOT SHAPE AND TO ALLOW R-20 INFILL LOTS USING THE OPTIONAL LOT SIZE OF 18,000 SQ.FT. TO BE ENCUMBERED BY ENVIRONMENTALLY SENSITIVE FEATURES. WP-07-107 WAS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:
  - TO THE EXTENT POSSIBLE, ALTER THE SHAPE OF LOT 1 TO MAXIMIZE THE AREA OF OPEN SPACE LOT 5 AND FACILITATE ENVIRONMENTAL PROTECTIONS. RECONFIGURE LOT 1 TO HAVE A 20' WIDE PIPESTEM (THIS MAY BE 12" IN THE AREA WHERE IT LIES ADJACENT TO THE PIPESTEM FOR LOT 2). INCORPORATE THE WETLANDS AREA ALONG COLLEGE AVENUE INTO THE OPEN SPACE LOT AND WITHOUT CREATING A ZONING VIOLATION REDUCE ITS AREA AS CLOSE AS POSSIBLE TO THE MINIMUM LOT SIZE OF 18,000 SQ.FT.
  - PLANT WITH FOREST CONSERVATION PLANTINGS ALL UNFORESTED AREAS OF NEWLY RECONFIGURED OPEN SPACE LOT 5 NEAR THE INTERSECTION OF COLLEGE AVENUE AND BONNIE BRANCH ROADS (IN THE WETLANDS AND FLOOD PLAN).
  - ALTER THE REAR BUILDING RESTRICTION LINES (BRLs) FOR LOTS 3 AND 4 TO COINCIDE WITH (AND NOT EXTEND INTO) THE 35' ENVIRONMENTAL SETBACK FROM STEEP SLOPES.
  - THIS WAIVER PETITION APPROVAL IN NO WAY AUTHORIZES GRADING OF THE STEEP SLOPE AREAS ON LOTS 3 AND 4.
  - THE 35' ENVIRONMENTAL SETBACK FROM STEEP SLOPES.
  - THIS WAIVER PETITION APPROVAL IN NO WAY TAKE PRECEDENT OVER THE R-20 ZONING SETBACKS AND THEREFORE, SHALL DEFINE THE BUILDING RESTRICTION LINES ON THESE LOTS.
26. THIS DEVELOPMENT IS DESIGNED TO BE IN ACCORDANCE WITH SECTION 16.127 OF SUBDIVISION AND LAND DEVELOPMENT REGULATIONS-RESIDENTIAL INFILL DEVELOPMENT. THE DEVELOPER OF THIS PROJECT SHALL CREATE COMPATIBILITY WITH THE EXISTING NEIGHBORHOOD THROUGH THE USE OF ENHANCED PERIMETER LANDSCAPING, SIMILAR HOUSING UNIT TYPES AND THE DIRECTIONAL ORIENTATION OF THE PROPOSED HOUSES, AND SHALL IMPROVE THE DESIGN OF THE PROJECT AND ITS RELATIONSHIP TO THE SURROUNDING RESIDENTIAL PROPERTIES BY PROTECTING ENVIRONMENTAL LANDS AND BY INCORPORATING INTO THE DESIGN LOCALLY SIGNIFICANT SITE FEATURES SUCH AS HISTORIC STRUCTURES AND UNIQUE TOPOGRAPHIC FEATURES.
27. AN ADDENDUM OF MODIFICATION TO DECLARATION OF EASEMENT AND MAINTENANCE OBLIGATIONS FOR THE COMMON ACCESS AREA DRIVEWAY SERVING LOTS 3 AND 4 AND PARCELS 6, 650 AND 652 HAS BEEN RECORDED IN THE LAND RECORDS OF HOWARD COUNTY LIBER 11142, FOLIO 291.
28. A DECLARATION OF USE-IN-COMMON EASEMENT AND OF MAINTENANCE OBLIGATION FOR THE COMMON ACCESS AREA DRIVEWAY SERVING LOTS 3 AND 4 HAS BEEN RECORDED IN THE LAND RECORDS OF HOWARD COUNTY- LIBER 11142, FOLIO 287.

### ADDRESS CHART

LOT #	ADDRESS
2	4566 COLLEGE AVE.
3	4552 COLLEGE AVE.
4	4554 COLLEGE AVE.

### INDEX OF DRAWINGS

NO.	DESCRIPTION
1	COVER SHEET
2	SITE DEVELOPMENT PLAN
3	SEDIMENT CONTROL NOTES AND DETAILS

### PERMIT INFORMATION BLOCK

SUBDIVISION NAME BONNIE BRANCH POINT	SECTION/AREA N/A	PARCEL: 399 LOTS: 2, 3 & 4
PLAT NO. 19805-7	BLOCK(S) 4	ZONING R-20
TAX MAP NO. 31	ELECTION DISTRICT 2ND	CENSUS TRACT 6027.00
WATER CODE 1-E18	SEWER CODE 7550000	

date	APR 2008
project	03-016
illustration	HSP
approval	HSP
scale	1"=90'

no.	1	ADD THE BIRMINGHAM HOUSE TYPE TO THE PLAN	description
revisions			

**BONNIE BRANCH POINT**  
 LOTS 2-4 - SINGLE FAMILY DETACHED  
 TAX MAP 31, GRID 4, PARCEL 399  
 HOWARD COUNTY, MARYLAND  
 SECOND ELECTION DISTRICT  
 COVER SHEET

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042  
 (410) 997-0296 Fax (301) 621-5521 Wash. (410) 997-0298 Fax



**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 (92 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 (9 LBS./1000 SQ.FT.)
- 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 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 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER  
ACRE 1.4 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60  
LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.5 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS.  
DURING THE PERIOD OF OCTOBER 16 THRU 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 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW  
IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR  
218 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER,  
USE 348 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, FOR NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.)

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 2-1/2  
BUSHEL PER ACRE ANNUAL RYE (3.2 LBS./1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3  
LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS./1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU 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 (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED WEEF SMALL GRAIN  
STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING  
TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR  
HIGHER, USE 348 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.

**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 NAY  
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 REDISTURBANCE, 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 FOR  
ACCORDANCE WITH THE 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR  
SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC.51), SOD (SEC.  
54), TEMPORARY SEEDING (SEC.50) AND MULCHING (SEC.52). 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:	1.35	ACRES
AREA DISTURBED:	1.16	ACRES
AREA TO BE ROOFED OR PAVED:	0.30	ACRES
AREA TO BE VEGETATIVELY STABILIZED:	0.39	ACRES
TOTAL CUT:	600	CU. YDS.
TOTAL FILL:	600	CU. YDS.
TOTAL WASTE/BORROW AREA LOCATION:	N/A	

THESE QUANTITIES ARE FOR PERMIT PURPOSES ONLY.  
CONTRACTOR IS REQUIRED TO PROVIDE HIS OWN QUANTITIES MEASUREMENTS.

**OWNER**

TAYLOR GIFT, LLC  
34 OLD GRANARY COURT  
BALTIMORE, MD 21228  
443-367-0422

BY THE DEVELOPER:

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE  
ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONS INVOLVED IN  
THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A  
DEPARTMENT OF THE ENVIRONMENT TRAINING PROGRAM FOR THE  
CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL  
ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION  
AND PROMOTE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT"  
PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE  
PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNATURE OF DEVELOPER: *Donald R. Reuwer, Jr.* DATE: 4/21/09  
PRINTED NAME OF DEVELOPER: DONALD R. REUWER, JR.

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, 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. I HAVE  
NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL  
ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL  
CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS  
OF COMPLETION.

SIGNATURE OF ENGINEER: *John K. Reuter* DATE: 4/21/09  
PRINTED NAME OF ENGINEER: JOHN K. REUTER

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT  
CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*Thomas J. Suttler* DATE: 4/29/09  
DIRECTOR

*Chris Smith* DATE: 4/28/09  
CHIEF, DIVISION OF LAND DEVELOPMENT

*Chris Deussen* DATE: 4/21/09  
CHIEF, DEVELOPMENT ENGINEERING DIVISION



I HEREBY CERTIFY THAT THESE  
DOCUMENTS WERE PREPARED OR  
APPROVED BY ME AND THAT I AM A DULY  
LICENSED PROFESSIONAL ENGINEER UNDER  
THE LAWS OF THE STATE OF MARYLAND,  
LICENSE NO. 17942, EXP. DATE 9/3/10.

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 CAN  
BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

**STANDARD AND SPECIFICATIONS FOR TOPSOIL**

**DEFINITION**

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

**PURPOSE**

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT,  
LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

**CONDITIONS WHERE PRACTICE APPLIES**

- THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
  - THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE  
GROWTH.
  - THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR  
FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
  - THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
  - THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1  
REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER  
THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

**CONSTRUCTION AND MATERIAL SPECIFICATIONS**

- 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.
- TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
  - 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 CON-  
TRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CONDS, STONES, SLAG,  
COARSE FRAGMENTS, GRAVEL, STICKS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN  
DIAMETER.
  - TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSON-  
SON GRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
  - 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.

- FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
  - PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 2.0.0 VEGETATIVE  
STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:
  - ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME  
AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
    - PH FOR TOPSOILS SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF  
LESS THAN 6.0, SUFFICIENT LIME SHALL BE PERSCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.
    - ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
    - TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
    - 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.

- PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 2.0.0 VEGETATIVE  
STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- TOPSOIL APPLICATION
  - 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.
  - GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE  
MAINTAINED, ALBERT 4" - 8" HIGHER IN ELEVATION.
  - TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" TO 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 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.
  - 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.

- 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 AREAS UNDER 5  
ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
  - COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS WHO ARE  
PERMITTED (AT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE  
ENVIRONMENT UNDER COMAR 26.04.06.
  - COMPOSTED SLUDGE SHALL CONTAIN AT LEAST 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHOROUS, 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.
  - COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.
  - 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.

REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING, MD-VA, PUB. #1, COOPERATIVE  
EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.

**EROSION AND SEDIMENT CONTROL NOTES**

1. ALL SEDIMENT CONTROL OPERATIONS ARE TO BE DONE IN ACCORDANCE WITH SECTION 219 OF THE  
HOWARD COUNTY VOLUME IV DESIGN MANUAL AND THE STANDARDS AND SPECIFICATIONS FOR SEDIMENT  
CONTROL IN DEVELOPING AREAS.
2. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF BUSINESS.
3. ALL EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPGRADE SIDE OF THE MAIN TRENCH.
4. EXCAVATION AND BACKFILL SHALL BE LIMITED TO THAT WHICH CAN BE STABILIZED WITHIN ONE WORKING DAY.
5. IMMEDIATELY FOLLOWING BACKFILL OF THE SEWER TRENCH, ALL DISTURBED AREAS ARE TO BE STABILIZED  
IN ACCORDANCE WITH THE PERMANENT STABILIZATION AND SEEDING NOTES SHOWN ON THIS SHEET.
6. THROUGHOUT THE PROJECT, THE CONTRACTOR SHALL REGULARLY INSPECT ALL SEDIMENT CONTROL DEVICES  
AND PROVIDE ALL NECESSARY MAINTENANCE TO INSURE THAT ALL DEVICES ARE IN OPERATIVE CONDITION.
7. ALL SEDIMENT CONTROL FACILITIES SHALL REMAIN IN PLACE UNTIL PERMISSION FOR THEIR REMOVAL HAS  
BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

**TEMPORARY DUST CONTROL MEASURES**

1. MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH  
MULCHES ONLY. MULCH SHOULD BE CRIMPED OR TACKED TO PREVENT  
BLOWING.

2. VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE  
COVER.

3. TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE  
SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED  
BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF  
SITE. CHISEL-TYPE PLOWS APCED ABOUT 12" APART, SPRING-TOOTHED  
HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH  
MAY PRODUCE THE DESIRED EFFECT.

4. IRRIGATION - THIS IS GENERALLY DONE AS AN EMERGENCY  
TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS  
MOIST. REPEAT AS NEEDED, AT NO TIME SHOULD THE SITE BE  
IRRIGATED TO THE POINT THAT RUNOFF BEGINS TO FLOW.

5. BARRIERS - SOLID BOARD FENCES, SILT FENCES, SNOW FENCES,  
BURLAP FENCES, STRAW BALES, AND SIMILAR MATERIAL CAN BE USED  
TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT  
RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 10  
TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING SOIL BLOWING.

6. CALCIUM CHLORIDE - APPLY AT RATES THAT WILL KEEP SURFACE  
MOIST. MAY NEED RETREATMENT.

**SEQUENCE OF CONSTRUCTION**

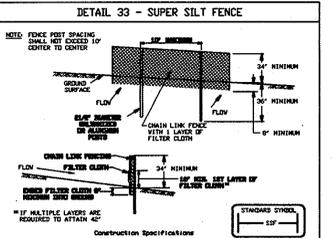
1. OBTAIN GRADING PERMIT (1 DAY)
2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AT LOCATION SHOWN (1 DAY)
3. CONSTRUCT SUPER SILT FENCE (2 DAYS)
4. CONSTRUCT SITE TO GRADES INDICATED WITH PERMISSION  
FROM INSPECTOR BEFORE PROCEEDING (10 DAYS).
5. CONSTRUCT HOUSES (90 - 180 DAYS)
6. COMPLETE FINE GRADING OF SITE TO GRADES INDICATED (2 DAYS).
7. SEED AND MULCH ALL REMAINING DISTURBED AREAS (1 DAY).
8. WHEN ALL CONTRIBUTING DRAINAGE AREAS TO SEDIMENT CONTROL  
DEVICES HAVE BEEN STABILIZED, AND WITH PERMISSION OF  
SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL  
DEVICES AND STABILIZE REMAINING DISTURBED AREAS (ONE DAY).

**OPERATION AND MAINTENANCE SCHEDULE  
FOR RAIN GARDENS**

- ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED.  
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.
- SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION  
WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, TREATMENT  
OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRES.
- MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING  
NEW LAYER ONCE EVERY 2 TO 3 YEARS.
- SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER  
MONTH AND AFTER HEAVY STORM EVENTS.

**SUPER SILT FENCE**

Design Criteria	Slope	Slope Steepness	Slope Length (feet/min)	Silt Fence Length (feet/min)
0 - 10%	0 - 10:1	Unlimited	Unlimited	
10 - 20%	10:1 - 9:1	200 Feet	1,500 Feet	
20 - 30%	9:1 - 8:1	100 Feet	1,000 Feet	
30 - 50%	3:1 - 0:1	100 Feet	500 Feet	
50% +	0:1 +	50 Feet	250 Feet	



U.S. DEPARTMENT OF AGRICULTURE  
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WATER MANAGEMENT ADMINISTRATION

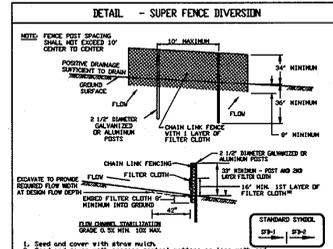
- Construction Specifications**
1. Fencing shall be 42" in height and constructed in accordance with the  
latest Maryland State Highway Design Manual for Chain Link Fencing. The specification  
for a 4" fence shall be used, substituting 42" fabric and 4" length  
posts.
  2. Chain link fence shall be fastened securely to the fence posts with wire  
ties. The lower tension wire, brace and tension rods, drive anchors and post caps are not  
required except on the ends of the fence.
  3. Filter cloth shall be fastened securely to the chain link fence with ties spaced  
every 24" at the top and mid section.
  4. Filter cloth shall be embedded a minimum of 6" into the ground.
  5. When two sections of filter cloth adjoin each other, they shall be overlapped  
by 6" and folded.
  6. Maintenance shall be performed as needed and silt buildup removed when "bulges"  
develop in the silt fence. Spot treatments may be necessary for grade less than 1:1.
  7. Filter cloth shall be fastened securely to each fence post with wire ties or  
anchors at top and mid section and shall meet the following requirements for  
Geotextile Class F:  
Tensile Strength: 20 lbs/in (min.) Test: HMT 509  
Tensile Modulus: 20 lbs/in (min.) Test: HMT 509  
Pore Size: 0.075 mm (max.) Test: HMT 502  
Filtering Efficiency: 75% (min.) Test: HMT 502



- Construction Specifications**
1. Length - minimum of 50' x30' 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 ground prior  
to placing stone. Spot treatments may be necessary for grade less than 1:1.  
Residence to use geotextile.
  4. Stone - crushed aggregate (2" to 3" or recycled or recycled concrete  
equivalent shall be placed at least 6" deep over the geotextile.
  5. Surface Water - All surface water flowing to an elevated house construction  
entrance shall be piped through the entrance, maintaining positive drainage. Pipe  
installed through the stabilized construction entrance shall be protected with a  
minimum of 1:1 slope and a minimum of 6" of stone over the pipe. Pipe has  
no drainage to convey a pipe will not be necessary. Pipe should be sized  
according to the volume of runoff to be conveyed. Pipe should be installed  
according to the manufacturer's instructions.
  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.

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- Construction Specifications (Continued)**
7. All temporary SFD dikes shall have unimproved positive grade to an  
outlet. Spot treatments may be necessary for grade less than 1:1.
  8. Runoff diverted from a disturbed area shall be conveyed to a sediment  
trapping device.
  9. Runoff diverted from an undisturbed area shall outlet directly into an  
undisturbed, stabilized area at a non-erosive velocity.
  10. All trees, brush, stumps, obstructions and other objectionable material  
shall be removed and disposed of so as not to interfere with the proper  
functioning of the dikes.
  11. The dikes shall be excavated on shaped to 1:1, grade and cross section  
as required to meet the criteria specified herein and be free of back  
projections or other irregularities which will impede normal flow.
  12. Fill shall be compacted by earth moving equipment.
  13. All earth removed and not needed for construction shall be placed  
so that it will not interfere with the functioning of the dikes.
  14. Inspection and maintenance must be provided periodically and after  
each rain event.

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Project	03-016	date	APR 2008
illustration	HSP	engineering	HSP
scale	HSP	approval	HSP
revision		scale	1" = 30'

description	revisions
no.	

**BONNIE BRANCH POINT**  
LOTS 2-4 - SINGLE FAMILY DETACHED  
TAX MAP 31, GRID 4, PARCEL 399  
HOWARD COUNTY, MARYLAND  
SECOND ELECTION DISTRICT

**SEDIMENT CONTROL NOTES AND DETAILS**

**MILDENBERG, BOENDER & ASSOC., INC.**  
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