GENERAL NOTES

- . THE SUBJECT PROPERTY IS ZONED R-20 PER THE 02/02/04 COMPREHENSIVE ZONING PLAN AND PER THE "COMP LITE" ZONING REGULATION AMENDMENTS EFFECTIVE 7/28/06. TOTAL PROJECT AREA = 2.49 AC.±
- AREA OF PLAN SUBMISSION = 1.92 AC.± LIMIT OF DISTURBED AREA = 1.92 AC± EXISTING USE = RESIDENTIAL
- PROPOSED USE = RESIDENTIAL TOTAL NUMBER OF UNITS ALLOWED = 8 TOTAL NUMBER OF UNITS PROPOSED =8
- PREVIOUS HOWARD COUNTY FILE NUMBERS: W & S CONTR.#'s 14-4442-D; WP-03-062; SP-02-010; F-07-075
- THIS PROPERTY IS WITHIN THE METROPOLITAN DISTRICT. 4. THIS PROPERTY IS SUBJECT TO THE FIFTH EDITION OF THE HOWARD COUNTY
- SUBDIVISION AND LAND DEVELOPMENT REGULATIONS., 5. PUBLIC WATER AND SEWER WILL BE USED WITHIN THIS SITE. PUBLIC WATER AND SEWER
- SERVICE WILL BE PROVIDED BY CONTRACT NO. 14-4442-D. 6. BOUNDARY SURVEY PREPARED BY MILDENBERG BOENDER & ASSOCIATES, INC. ON-SITE TOPOGRAPHY IS BASED ON THE PROPOSED CONTOURS SHOWN ON THE GRADING PLAN PREPARED BY MILDENBERG BOENDER & ASSOCIATES, INC. OFF-SITE TOPOGRAPHY IS
- BASED ON HOWARD COUNTY 1998 AERIAL SURVEY THERE ARE NO STEEP SLOPES, HISTORIC STRUCTURES OR CEMETERIES WITHIN THE
- 8. WETLAND STUDY PREPARED BY WILDMAN ENVIRONMENTAL SERVICES, INC. JANUARY 2002 THE DEPARTMENT OF PLANNING AND ZONING DETERMINED THAT RECERTIFICATION OF THE WETLAND STUDY WAS UNNECESSARY SINCE NO ACTIVITIES ARE PROPOSED IN THE VICINITY
- OF WETLANDS OR THE WETLAND BUFFER WITHIN THE AREA OF PLAN SUBMISSION. 9. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS: STATE HIGHWAY ADMINISTRATION 410.531.5533 BGE (CONTRACTOR SERVICES) 410.850.4620
- BGE(UNDERGROUND DAMAGE CONTROL) 410.787.9068
- COLONIAL PIPELINE COMPANY 410.795.1390
- HOWARD COUNTY, DEPT. OF PUBLIC WORKS, BUREAU OF UTILITIES 410.313.4900 HOWARD COUNTY HEALTH DEPARTMENT 410.313.2640
- VERIZON 1.800.743.0033 OR 410.224.9210 10. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING PERFORMED.
- ANY DAMAGE TO PUBLIC RIGHTS-OF WAY, PAVING OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- 12. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- 13. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT. 14. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND
- SPECIFICATIONS OF HOWARD COUNTY IN ADDITION TO MARYLAND STATE HIGHWAY ADMINISTRATION STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- 15. THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
- 16. EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTORS INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE
- REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. ALL HDPE PIPE SPECIFICATION AND INSTALLATION SHALL MEET AASHTO M-252 TYPE S M-294 TYPE S, AND ASTM D2321, RESPECTIVELY.
- 18. SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE SOIL RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER. DRIVEWAY PAVING TO BE HOWARD COUNTY STANDARD P-1 PAVING SECTION. GEOTECHNICAL ENGINEER TO CONFIRM ACCEPTABILITY OF PROPOSED PAVING SECTION, BASED ON TEST, PRIOR TO CONSTRUCTION.
- 20. ALL TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
- 21. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM.
- HOWARD COUNTY MONUMENT NUMBERS 18G1 AND 24C2 WERE USED FOR 22. FOREST CONSERVATION EASEMENTS HAVE BEEN PROVIDED FOR THIS PROJECT IN ACCORDANCE WITH SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST
- CONSERVATION ACT. FOREST CONSERVATION REQUIREMENTS ARE ADDRESED IN ACCORDANCE WITH APPROVED PLAN F 07-075. 23. 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. AND NOT TO THE PIPESTEM LOT DRIVEWAY. 24. IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS BAYWINDOWS, 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 25. DRIVEWAY ENTRANCE TO BE PER HOWARD COUNTY STANDARD DETAIL R-6.06.
- 26. DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING REQUIREMENTS:
 - 1) WIDTH -12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE); 2) SURFACE - SIX (6") INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP
 - COATING (1-1/2" MINIMUM) 3) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADIUS:
 - 4) STRUCTURES (CULVERTS/BRIDGES) CAPABLE OF SUPPORTING 25 GROSS TONS (H25-LOADING);
 - 5) DRAINAGE ELEMENTS CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE;
- 6) MAINTENANCE SUFFICIENT TO ENSURE ALL WEATHER USE. 27. STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH THE 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUMES I AND II. THE STORMWATER MANAGEMENT DESIGN WAS
- APPROVED UNDER F-07-075 DATED SEPT. 3, 2008 28. STORMWATER MANAGEMENT IS PROVIDED BY NON-ROOFTOP DISCONNECTION CREDIT, SHEET FLOW TO BUFFER, RAIN GARDENS, NATURAL CONSERVATION AREA CREDIT, AND A
- PRIVATELY OWNED AND MAINTAINED SURFACE SAND FILTER. THE ONLOT DISCONNECTION PRACTICES AND RAIN GARDENS ARE SUBJECT TO DECLARATION OF COVENANCE.
- 29. A TRAFFIC STUDY WAS PERFORMED BY MARS GROUP ON JULY 2002 AND APPROVED 30. A NOISE STUDY WAS PERFORMED BY WILDMAN ENVIRONMENTAL ON JULY 2002 AND
- APPROVED ON JANUARY 17, 2003. 31. FINANCIAL SURETY FOR PERIMÉTER LANDSCAPING OBLIGATIONS HAVE BEEN PROVIDED FOR THIS PROJECT IN ACCORDANCE WITH SECTION 16.124 OF THE SUBDIVISION REGULATIONS AND THE LANDSCAPE MANUAL UNDER F-07-075. THE FINANCIAL SURETY FOR THE LANDSCAPE STREET SCREENING HAS BEEN POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$ 6,360 (17 SHADE TREES, 7
- EVERGREENS, AND 7 SHRUBS). 16 STREET TREES ARE REQUIRED AND PROVIDED. 32. SEWER HOUSE CONNECTION (SHC) TO BE AT 2.0% UNLESS OTHERWISE NOTED. CLEANOUTS ARE TO BE PROVIDED AT ALL BENDS. WATER HOUSE CONNECTIONS ARE TO BE 1.5" IN DIAMETER, TO ACCOMMODATE SPRINKLER SYSTEMS THAT ARE REQUIRED AS
- 33. MAINTENANCE OF THE PRIVATE ROADWAYS, STORM DRAINS, DRAINAGE STRUCTURES AND SWALES, AND STORMWATER MANAGEMENT FACILITIES IS THE RESPONSIBILITY OF THE HOME OWNERS ASSOCIATION AS PROVIDED FOR IN THE DECLARATION OF COVENANTS, CONDITIONS, AND RESTRICTIONS RECORDED IN THE LAND RECORDS OF HOWARD COUNTY IN LIBER MDR 11360
- AT FOLIO 0016 DATED AUGUST 14, 2008. 34. THE FLOODPLAIN SHOWN HEREON IS TAKEN FROM A PLAT RECORDED IN THE LAND RECORDS OF HOWARD COUNTY AS MDR PLAT NO. 20203 AND IS BASED ON A FLOODPLAIN STUDY PREPARED BY MILDENBERG, BOENDER AND ASSOCIATES, INC. DATED JUNE 2002 AND APPROVED ON JANUARY 17, 2003. THE FLOODPLAIN LIMITS ON THIS SDP HAVE BEEN AMENDED
- BASED ON THE MOST CURRENT FEMA STUDY. 35. PRIVATE ON LOT STORMWATER MANAGEMENT FACILITIES SHALL HAVE A RECORDED DECLARATION
- 36. AN ALTERNATIVE COMPLIANCE PETMION TO SECTION 16.156. (6)(111), BUILDING PERMITS, FILED AS MP-19-062 WAS APPROVED ON TANUARY 22, 2019. APPROVAL ISSUED TO THE FOLLOWING CONDITIONS: 1. THE PETITIONER SHALL APPLY FOR A BUILDING PERMIT FOR CONSTRUCTION ON LOTS 1-4 AND 6-8 WITHIN ONE (1) YEAR FROM THE DATE OF THE APPROVAL LETTER (ON, OR BEFORE, JANUARY 22, 2020), OR

THE SITE DEVELOPMENT PLAN SDP-12-082, WILL EXPIRE, AND A NEW STIE DEVELOPMENT PLAN

SUBMISSION WILL BE REQUIRED. APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Millenne

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

LOT NO.

2

3

I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, OR AS DEEMED NECESSARY.

398.12

397.14

396.66

397.18

398.51

INVERT@ EASE. MIN. CELLAR ELEV.

402.32

401.04

400.46

409.96

411.27

400.98

402.31

SEWER CONNECTION SCHEDULE

OWNER'S CERTIFICATION:

INVERT@ MAIN

397.93

397.66

396.70

396.19

405.56

406.58

396.55

397.85

LOCATION MAP SCALE: 1"=100"

FOREST CONSERVATION EASEMENT 'B'
0.41 ACRES RETENTION

CHATEAU SPRING RIDGE Inc.

N 12' 25' 59" W 437.57'

SCALE: 1"=100' GRAPHIC SCALE (FEET)

DPZ FILE REFERENCES

SEE GENERAL NOTE #2

SITE ANALYSIS DATA CHART							
OTAL PROJECT AREA	AREA OF SUBMISSION	DISTURBED AREA	PRESENT ZONING				
2.49 Ac.±	1.92 Ac.±	1.92 Ac.±	R-20				
ROPOSED USE	FLOOR SPACE PER USE	TOTAL UNITS ALLOWED	TOTAL UNITS PROPOSE				
SFD	N/A	8	8				
AX. # EMP./TENANTS	PARKING SPACES REQ.	PARKING SPACES PROV.	HC SPACES PROVIDED				
N/A	2 PER DWELLING	2 PER DWELLING	N/A				
EN SPACE REQUIRED	OPEN SPACE PROVIDED	REC. O.S. PROVIDED	REC. O.S. PROVIDED				
1.80 Ac.±	2.0 Ac.±	N/A	N/A				

FLOOR AREA RATIO

ENGINEER'S CERTIFICATION:

RICHARD TRUELOVE P.E. MD.REG. # 10800

SITE DEVELOPMENT PLAN

HOWARD COUNTY, MARYLAND

666/715, PARCEL 60

SERIO ESTATES

LOTS 1-8

CITE ANALYCIC DATA CHADT

I CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS

SITE CONDITIONS. AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE

REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE

N 12' 06' 59" W 369.48'

GUNNER SONMEZ

70NING R-20

2332/462

BUILDER'S CERTIFICATE

I 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 HOWARD COUNTY LANDSCAPE MANUAL. I FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE(1) YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.



REVISE TO CHANGE HOUSE TYPES AND GRADING ON 1/24/19 LOTS I AND 3. REVISIONS WERE DELAKED TO REACTIVATE FUIN REVISE TO CHANGE SWM DEVICES USED ON LOTE 9/25/18 REVISE GENERIC BOXES ON LOTS 1, 3, 7, 8; 3/20

ADD SENECA, DATUXENT, AND POTOMAC HOUSE

DESCRIPTION **REVISIONS**

VICINITY MAP

BENCH MARKS							
IUMBER	NORTHING	EASTING	ELEVATION				
8G1	589,984.951	1,367,750.255	408.491				
4C2	588,648,312	1,366,038.195	354.760				

ADDRESS CHART						
LOT	OT STREET ADDRESS					
1	3011 FOX CHAPEL COURT					
2	3015 FOX CHAPEL COURT					
3	3019 FOX CHAPEL COURT					
4	3023 FOX CHAPEL COURT					
5	3027 FOX CHAPEL COURT					
6	3031 FOX CHAPEL COURT					
7	3018 FOX CHAPEL COURT					
8	3014 FOX CHAPEL COURT					

	SHEET INDEX					
SHEET NO.	DESCRIPTION					
1	01_TITLE SHEET					
2	02_SDP SHEET					
3	03_SEDIMENT & EROSION CONTROL SHEET					
4	04_SEDIMENT & EROSION CONTROL NOTES, HOUSE TEMPLATE SHEET CONSTRUCTION SEQUENCE, EASEMENT PLAN & OUTLINES					
5	05_SEDIMENT & EROSION CONTROL VEGETATIVE NOTES					
6	06_SEDIMENT & EROSION CONTROL DETAIL SHEET					
7	07_RAINGARDEN PLAN, NOTE, DETAILS, HOUSE TEMPLATE					

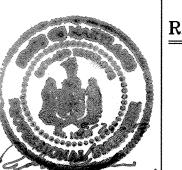
F	PERMIT	INFOR	MATION	N CHART	•	
SUBDIVISION NAME			SECTION/AREA		PARCEL	
SERIO ESTATES			N/A		# 59	
PLAT GRID # ZONING		TAX MAP#	ELECT.DIS.	CENSUS TRACT		
20203-20204 19 R-20		18	2nd	602600		

OWNER/DEVELOPER

FOX CHAPEL COURT LLC 2965 BROOKWOOD ROAD **ELLICOTT CITY, MARYLAND 21042-2501**

TAX MAP 18 2nd ELECTION DISTRICT

PARCEL 59 HOWARD COUNTY, MARYLAND



RICHARD TRUELOVE P.E., Inc. 13 Elmwood Road Baltimore, Maryland 21210

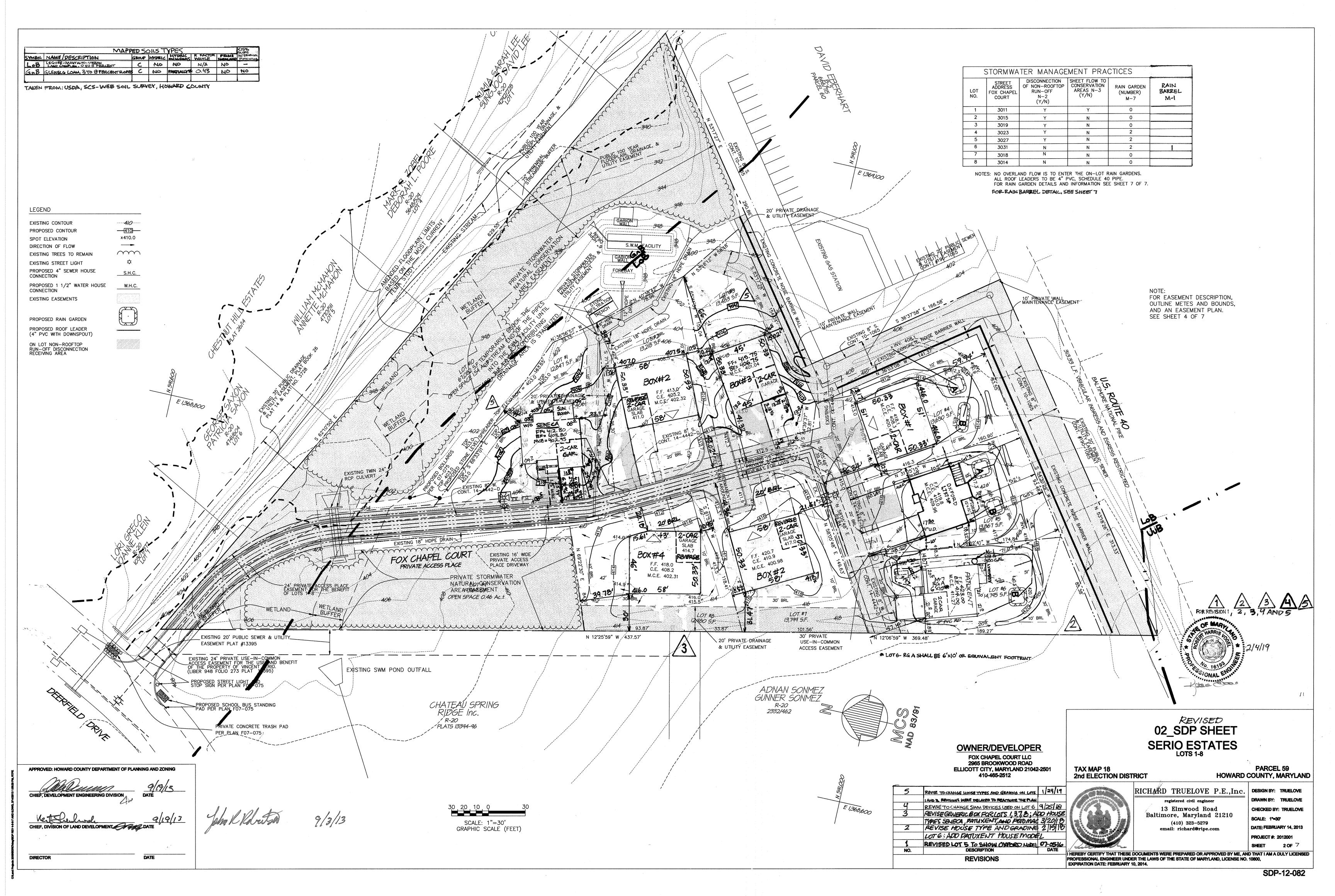
DRAWN BY: TRUELOVE CHECKED BY: TRUELOVE SCALE: AS SHOWN (410) 323-5279 email: richard@rtpe.com

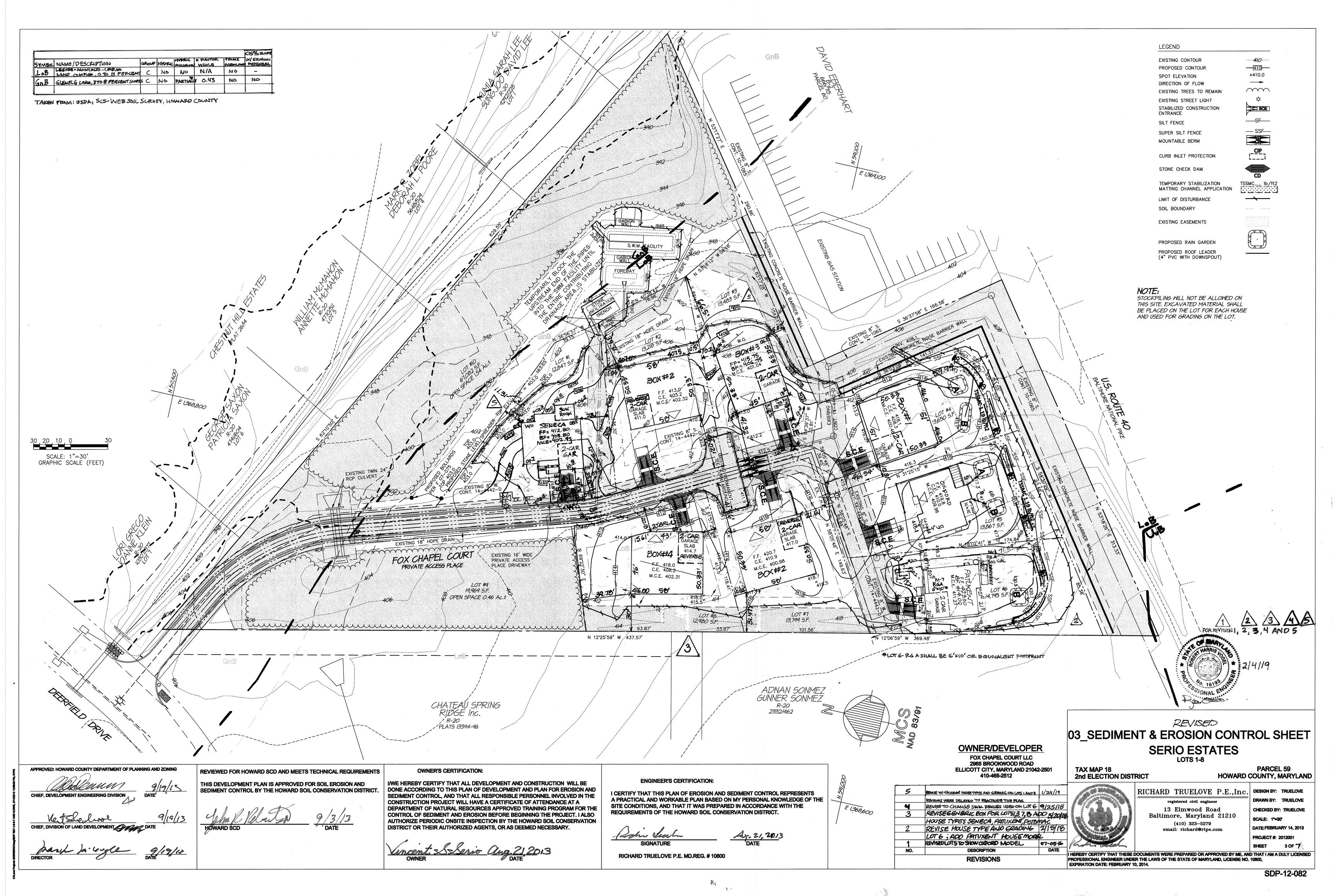
DATE: FEBRUARY 14, 2013 PROJECT#: 2012001

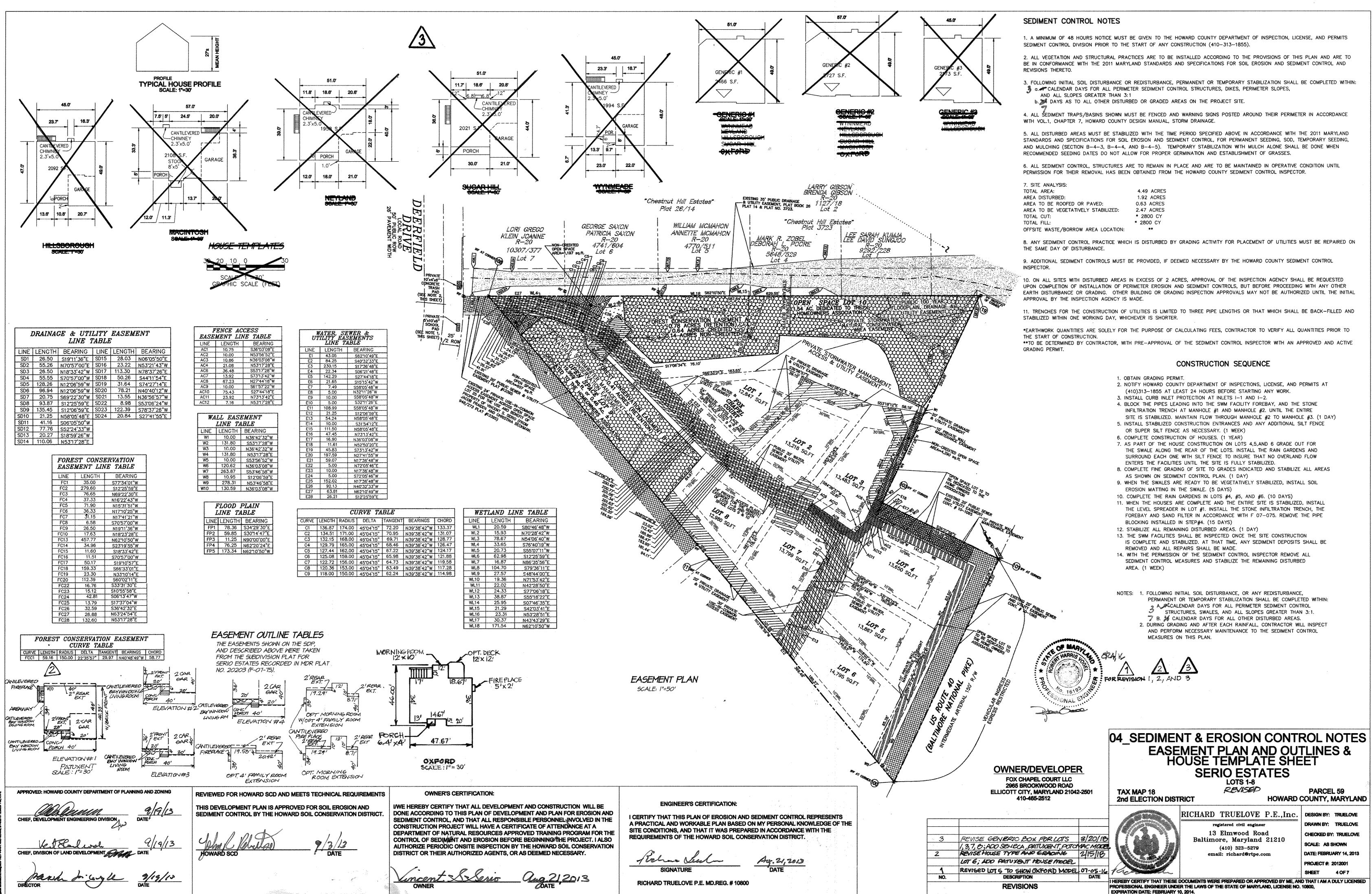
HEREBY CERTIFY THAT THEŚÉ DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 10800.

SDP-12-082

DESIGN BY: TRUELOVE







FOR

The process of preparing the soils to sustain adequate vegetative stabilization.

Ригрозе

Conditions Where Practice Applies

Where vegetative stabilization is to be established

<u>Criteria</u>

A. Soil Preparation

- but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running
- c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable

2. Permanent Stabilization

- a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are:
- iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception: if lovegrass will be planted, then a sandy soil (less than 30 percent silt plus clay)
- b. Application of amendments or topsoil is required if on-site soils do not meet the above
- c. Graded areas must be maintained in a true and even grade as specified on the approved plan,
- d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil
- e. Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Rake lawn areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loose and friable. Seedbed loosening may be unnecessary on newly disturbed areas.

Topsoiling

- 1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is 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.
- 2. Topsoil salvaged from an existing site may be used provided 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-NRCS.
- 3. Topsoiling is limited to areas having 2:1 or flatter slopes where:
- a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth
- b. 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.
- c. The original soil to be vegetated contains material toxic to plant growth.
- d. The soil is so acidic that treatment with limestone is not feasible.
- 4. Areas having slopes steeper than 2:1 require special consideration and design,
- a. Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments,
- gravel, sticks, roots, trash, or other materials larger than 11/2 inches in diameter. b. Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nut sedge, poison ivy, thistle, or others as specified.
- c. 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.
- 6. Topsoil Application
- a. Erosion and sediment control practices must be maintained when applying topsoil.
- b. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness of 4 inches. Spreading is to 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 must be corrected in order to prevent the formation of depressions or water pockets.
- c. Topsoil must not be placed if 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

Soil Amendments (Fertilizer and Lime Specifications)

- 1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.
- 2. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers must all be delivered to the site fully labeled according to the applicable laws and must bear the name, trade name or trademark and warranty of the producer.
- 3. Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when hydroseeding) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100 mesh sieve and 98 to 100 percent will pass through a #20 mesh sieve.
- 4. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by
- 5. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil.

B-4-3 STANDARDS AND SPECIFICATIONS

FOR

SEEDING AND MULCHING

Definition

The application of seed and mulch to establish vegetative cover.

Purpose

To protect disturbed soils from erosion during and at the end of construction

Conditions Where Practice Applies

To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

Criteria

Seeding

1. Specifications

- a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate.
- b. Mulch alone may be applied between the fall and spring seeding dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws.
- c. Inoculants: The inoculant for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less effective.
- d. Sod or seed must not 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.

2. Application

- a. Dry Seeding: This includes use of conventional drop or broadcast spreaders.
- i. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1, Permanent Seeding Table B.3, or site-specific seeding summaries.
- ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with a weighted roller to provide good seed to soil
- b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.
- i. Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting.
- ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction.
- c. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer).
- i. If fertilizer is being applied at the time of seeding, the application rates should not exceed the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P₂O₅ (phosphorous), 200 pounds per acre; K₂O (potassium), 200 pounds per acre.
- ii. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
- iii. Mix seed and fertilizer on site and seed immediately and without interruption.
- iv. When hydroseeding do not incorporate seed into the soil.

1. Mulch Materials (in order of preference)

- a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color. Straw is to be free of noxious weed seeds as specified in the Maryland Seed Law and not musty, moldy, caked, decayed, or excessively dusty. Note: Use only sterile straw mulch in areas where one species of grass is desired.
- b. Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose processed into a uniform fibrous physical state.
- i. WCFM is to be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry.
- ii. WCFM, including dye, must contain no germination or growth inhibiting factors.
- iii. WCFM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a blotter-like ground cover, on application, having moisture absorption and percolation properties and must cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.
- iv. WCFM material must not contain elements or compounds at concentration levels that will be phyto-toxic.
- v. WCFM must conform to the following physical requirements: fiber length of approximately 10 millimeters, diameter approximately 1 millimeter, pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity of 90 percent minimum.

2. Application

- a. Apply mulch to all seeded areas immediately after seeding.
- b. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of 1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch anchoring tool, increase the application rate to 2.5 tons per acre.
- c. Wood cellulose fiber used as mulch must be applied at a net dry weight of 1500 pounds per acre. Mix the wood cellulose fiber with water to attain a mixture with a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.

Anchoring

- a. Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon the size of the area and erosion hazard:
- i. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of 2 inches. This practice is most effective on large areas. but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should follow the contour.
- ii. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
- iii. Synthetic binders such as Acrylic DLR (Agro-Tack), DCA-70, Petroset, Terra Tax II, Terra Tack AR or other approved equal may be used. Follow application rates as specified by the manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such as in valleys and on crests of banks. Use of asphalt binders is strictly prohibited.
- iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations. Netting is usually available in rolls 4 to 15 feet wide and 300 to 3,000

B-4-4 STANDARDS AND SPECIFICATIONS

<u>FOR</u>

TEMPORARY STABILIZATION

Definition

To stabilize disturbed soils with vegetation for up to 6 months.

Purpose

To use fast growing vegetation that provides cover on disturbed soils.

Conditions Where Practice Applies

Exposed soils where ground cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices are required.

Criteria

- 1. Select one or more of the species or seed mixtures listed in Table B.1 for the appropriate Plant Hardiness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths. If this Summary is not put on the plan and completed, then Table B.1 plus fertilizer and lime rates must be put on the plan.
- 2. For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests are not required for Temporary Seeding.
- 3. When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch alone as prescribed in Section B-4-3.A.1.b and maintain until the next seeding season.

Temporary Seeding Summary

	Hardiness Zor Seed Mixture	Fertilizer Rafe	Lime Rate				
No.	Annual Ryearass	Application Rate (lb/ac)	3 Seeding 5 8 Dates / 15	Seeding Depths	(10-20-20)	Lime Nate	
•	Foxtail Millet	40	5/16-7/31	1/2"			
			·		436 lb/ac	2 tons/ac	
					(10 lb/1000 sf)	(90 lb/1000 sf)	
			·				

B-4-5 STANDARDS AND SPECIFICATIONS

FOR

PERMANENT STABILIZATION

Definition

To stabilize disturbed soils with permanent vegetation.

Purpose

To use long-lived perennial grasses and legumes to establish permanent ground cover on disturbed soils.

Conditions Where Practice Applies

Exposed soils where ground cover is needed for 6 months or more.

shown in the Permanent Seeding Summary.

Criteria

1. General Use

Seed Mixtures

a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table

Summary. The Summary is to be placed on the plan. b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in

B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding

- USDA-NRCS Technical Field Office Guide, Section 342 Critical Area Planting. c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil
- testing agency. d. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 ½ pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments

2. Turfgrass Mixtures

- a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance.
- b. Select one or more of the species or mixtures listed below based on the site conditions or purpose. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The summary is to be placed on the plan.
- i. Kentucky Bluegrass: Full Sun Mixture: For use in areas that receive intensive management. Irrigation required in the areas of central Maryland and Eastern Shore. Recommended Certified Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
- ii. Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in full sun areas where rapid establishment is necessary and when turf will receive medium to intensive management. Certified Perennial Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
- iii. Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas receiving low to medium management in full sun to medium shade. Recommended mixture includes; Certified Tall Fescue Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to 8 pounds per 1000 square feet. One or more cultivars may be blended
- iv. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf area. Mixture includes; Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 11/2 to 3 pounds per 1000 square feet.
- Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turfgrass Cultivar Recommendations for Maryland" Choose certified material. Certified material is the best guarantee of cultivar purity. The

certification program of the Maryland Department of Agriculture, Turf and Seed Section,

- provides a reliable means of consumer protection and assures a pure genetic line
- c. Ideal Times of Seeding for Turf Grass Mixtures Western MD: March 15 to June 1, August 1 to October 1 (Hardiness Zones: 5b, 6a)
 - Central MD: March 1 to May 15, August 15 to October 15 (Hardiness Zone: 6b)
 - Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15 (Hardiness Zones: 7a, 7b)
- d. Till areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 11/2 inches in diameter. The resulting seedbed must be in such condition that future mowing of grasses will pose no difficulty.
- e. If soil moisture is deficient, supply new seedings with adequate water for plant growth (1/2 to 1 inch every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedings are made late in the planting season, in abnormally dry or hot

6b Permanent Seeding Summary

	Hardiness Zone (from Figure B.3): Seed Mixture (from Table B.3):				Fertilizer Rate (10-20-20)			Lime Rate
No.	Hard Fescure	Application Rate (lb/ac)	3 Steeding 15 8 Date 9 / 15	Seeding Depths	N	P ₂ O ₅	K ₂ 0	- Lime Kate
9	Kentucky Bluegrass	40	8/1-10/15	1⁄4- ½ in	45 pounds	00 15/00	00.15/22	240/20
	Ryegrass	20	8/1-10/15	1⁄4- ½ in	per acre	(1.0.1b/ (2.1b/	90 lb/ac (2 lb/	2 tons/ac (90 lb/
				¼- ½ in	1000 sf)	1000 sf)	1000 sf)	1000 sf)

Sod: To provide quick cover on disturbed areas (2:1 grade or flatter).

General Specifications

- a. Class of turfgrass sod must be Maryland State Certified. Sod labels must be made available to the job foreman and inspector.
- b. Sod must be machine cut at a uniform soil thickness of \(\frac{3}{2} \) inch, plus or minus \(\frac{1}{2} \) inch, at the time of cutting. Measurement for thickness must exclude top growth and thatch. Broken pads and torn or uneven ends will not be acceptable.
- c. Standard size sections of sod must be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the
- d. Sod must not be harvested or transplanted when moisture content (excessively dry or wet) may
- adversely affect its survival. e. Sod must be harvested, delivered, and installed within a period of 36 hours. Sod not

transplanted within this period must be approved by an agronomist or soil scientist prior to its

2. Sod Installation

- a. During periods of excessively high temperature or in areas having dry subsoil, lightly irrigate the subsoil immediately prior to laying the sod.
- b. Lay the first row of sod in a straight line with subsequent rows placed parallel to it and tightly wedged against each other. Stagger lateral joints to promote more uniform growth and strength. Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots.
- c. Wherever possible, lay sod with the long edges parallel to the contour and with staggering joints. Roll and tamp, peg or otherwise secure the sod to prevent slippage on slopes. Ensure solid contact exists between sod roots and the underlying soil surface.
- d. Water the sod immediately following rolling and tamping until the underside of the new sod pad and soil surface below the sod are thoroughly wet. Complete the operations of laying, tamping and irrigating for any piece of sod within eight hours.

- a. In the absence of adequate rainfall, water daily during the first week or as often and sufficiently as necessary to maintain moist soil to a depth of 4 inches. Water sod during the heat of the day to prevent wilting.
- b. After the first week, sod watering is required as necessary to maintain adequate moisture
- c. Do not mow until the sod is firmly rooted. No more than \(\sqrt{o} \) of the grass leaf must be removed by the initial cutting or subsequent cuttings. Maintain a grass height of at least 3 inches unless otherwise specified.

OWNER/DEVELOPER FOX CHAPEL COURT LLC 2965 BROOKWOOD ROAD

VEGETATIVE NOTES SERIO ESTATES LOTS 1-8

TAX MAP 18 2nd ELECTION DISTRICT

13 Elmwood Road

05 SEDIMENT & EROSION CONTROL

Baltimore, Maryland 21210 (410) 323-5279 email: richard@rtpe.com

DATE: FEBRUARY 14, 2013 PROJECT#: 2012001 SHEET 5 OF 7

FEREBY 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. 10800, **EXPIRATION DATE: FEBRUARY 10, 2014.**

RICHARD TRUELOVE P.E.,Inc.

SDP-12-082

PARCEL 59

DESIGN BY: TRUELOVE

DRAWN BY: TRUELOVE

CHECKED BY: TRUELOVE

SCALE: NOT TO SCALE

HOWARD COUNTY, MARYLAND

SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

Definition

To provide a suitable soil medium for vegetative growth.

1. Temporary Stabilization

- a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened, it must not be rolled or dragged smooth parallel to the contour of the slope.
- b. Apply fertilizer and lime as prescribed on the plans.
- i. Soil pH between 6.0 and 7.0.
- ii. Soluble salts less than 500 parts per million (ppm).
- would be acceptable.
- iv. Soil contains 1.5 percent minimum organic matter by weight. v. Soil contains sufficient pore space to permit adequate root penetration
- then scarified or otherwise loosened to a depth of 3 to 5 inches.

- 5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:

- disking or other suitable means.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL. AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR TH CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, OR AS DEEMED NECESSARY.

OWNER'S CERTIFICATION:

ENGINEER'S CERTIFICATION:

I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE

A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE

RICHARD TRUELOVE P.E. MD.REG. # 10800

I CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS

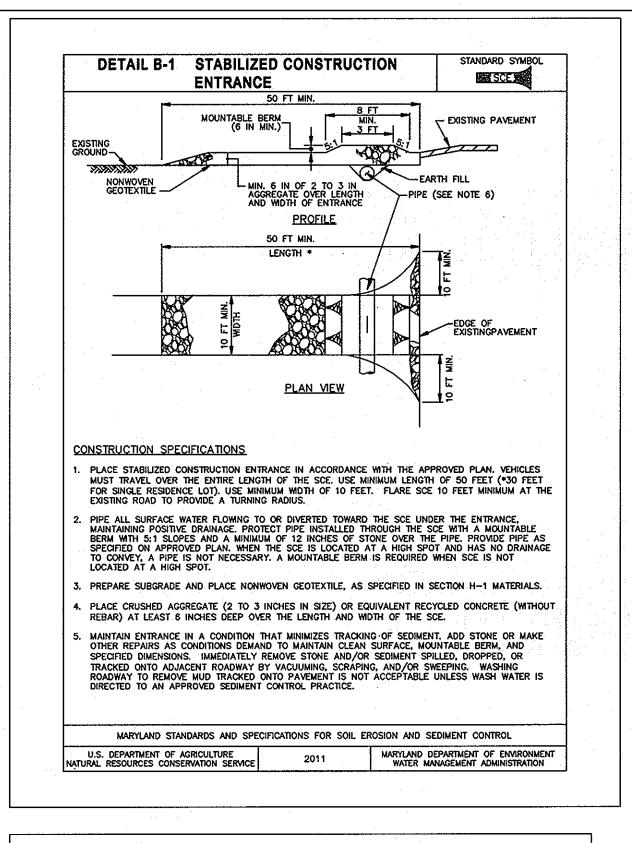
NO.

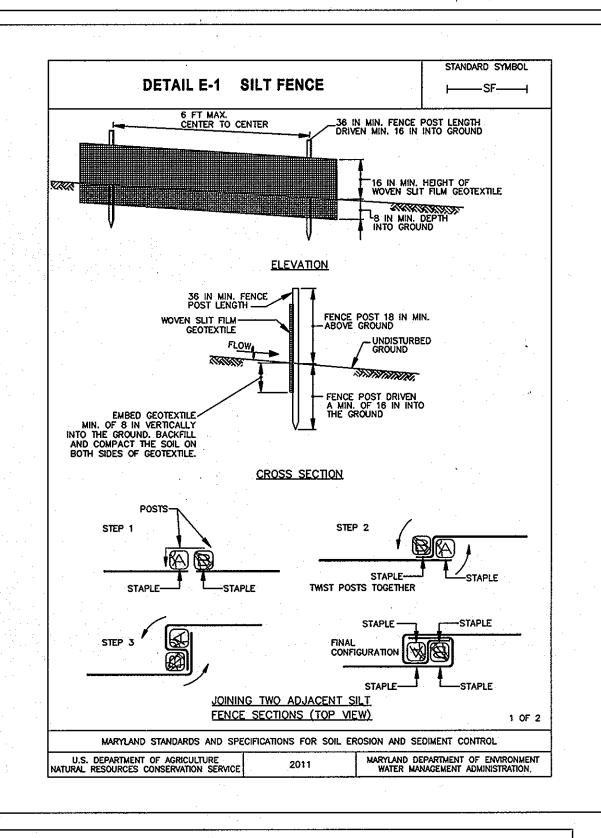
REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

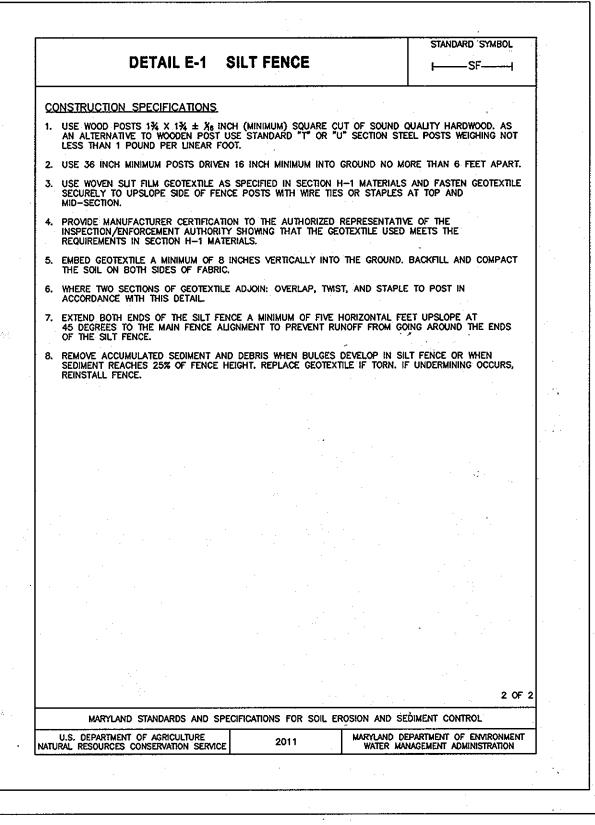
DESCRIPTION **REVISIONS**

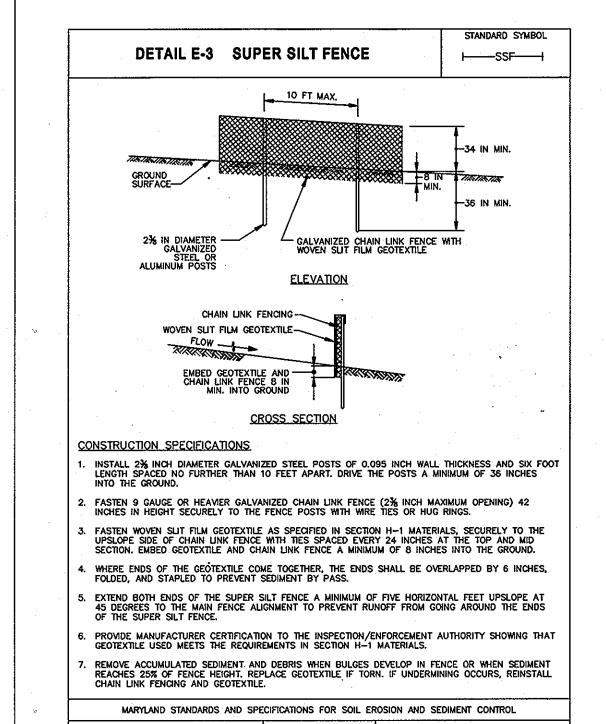
ELLICOTT CITY, MARYLAND 21042-2501

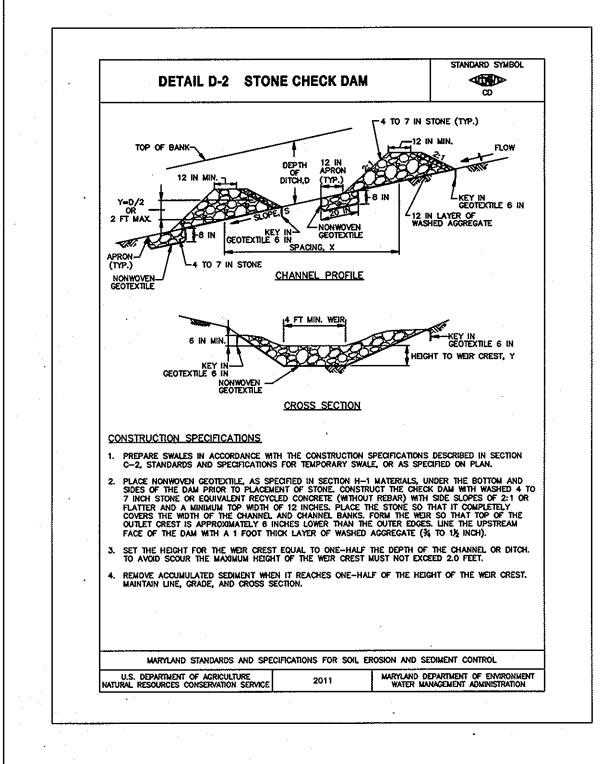
410-465-2512

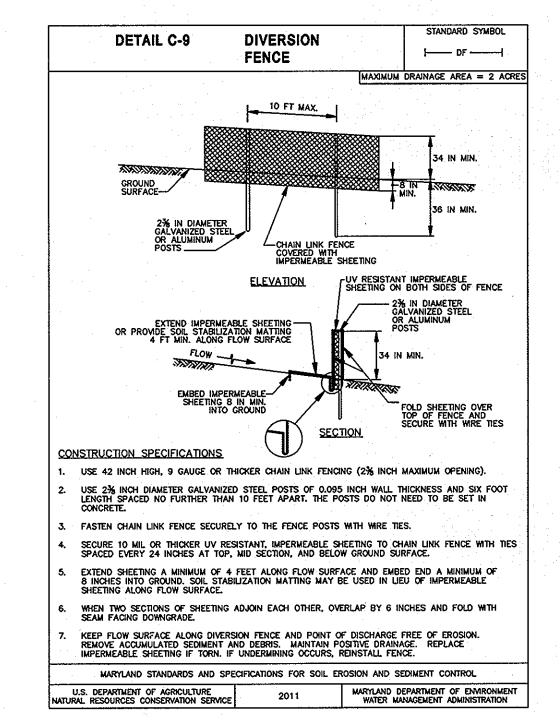


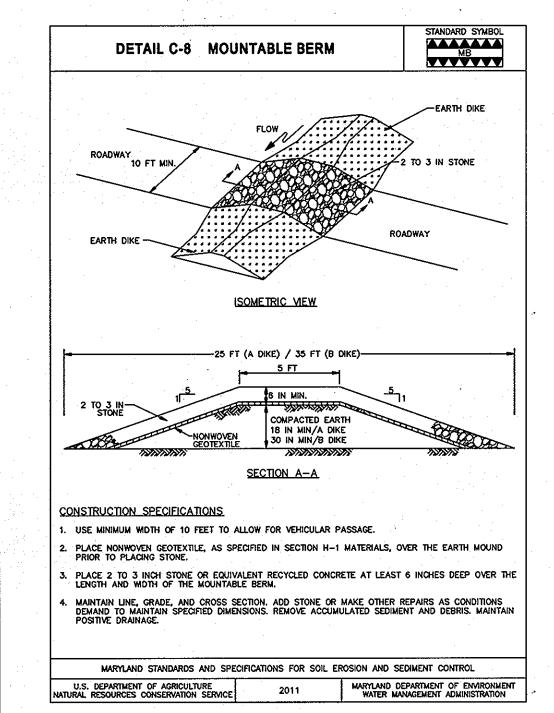


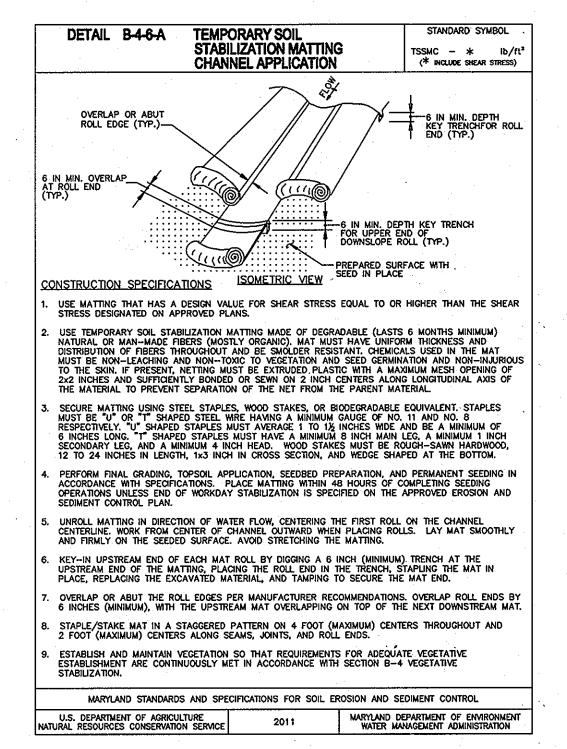


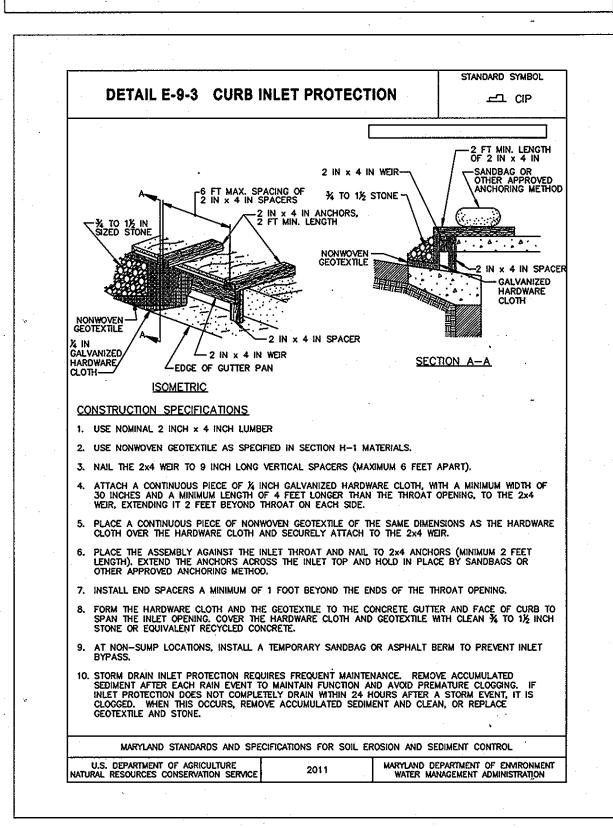












H-1 STANDARDS AND SPECIFICATIONS

MATERIALS

Table H.1: Geotextile Fabrics

		WOVEN SLIT FILM GEOTEXTILE		WOVEN MONOFILAMENT GEOTEXTILE		NONWOVEN GEOTEXTILE				
· · · · · · · · · · · · · · · · · · ·	<u>,</u>	MINIMUM AVERAGE ROLL VALUE ¹								
PROPERTY	TEST METHOD	MD	CD	MD	CD	MD	CD			
Grab Tensile Strength	ASTM D-4632	200 lb	200 lb	370 lb	250 lb	200 lb	200 lb			
Grab Tensile Elongation	ASTM D-4632	15%	10%	15%	15%	50%	50%			
Trapezoidal Tear Strength	ASTM D-4533	75 lb	75 lb	100 lb	60 lb	80 lb	80 lb			
Puncture Strength	ASTM D-6241	450	450 lb 900 lb		450 lb					
Apparent Opening Size ²	ASTM D-4751	U.S. Sieve 30 U.S. Sieve 70 (0.59 mm) (0.21 mm)		U.S. Sieve 70 (0.21 mm)						
Permittivity	ASTM D-4491	0.05 sec ⁻¹		0.28 sec ⁻¹		1.1 sec ⁻¹				
Ultraviolet Resistance Retained at 500 hours	ASTM D-4355	70% strength		70% strength		70% strength				

- All numeric values except apparent opening size (AOS) represent minimum average roll values (MARV). MARV is calculated as the typical minus two standard deviations. MD is machine direction; CD is cross
- ² Values for AOS represent the average maximum opening.

Geotextiles must be evaluated by the National Transportation Product Evaluation Program (NTPEP) and conform to the values in Table H.1.

The geotextile must be inert to commonly encountered chemicals and hydrocarbons and must be rot and mildew resistant. The geotextile must be manufactured from fibers consisting of long chain synthetic polymers and composed of a minimum of 95 percent by weight of polyolefins or polyesters, and formed into a stable network so the filaments or yarns retain their dimensional stability relative to each other, including selvages.

When more than one section of geotextile is necessary, overlap the sections by at least one foot. The geotextile must be pulled taut over the applied surface. Equipment must not run over exposed fabric. When placing riprap on geotextile, do not exceed a one foot drop height.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

OWNER'S CERTIFICATION:

I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, OR AS DEEMED NECESSARY.

uncent Serio aug 21,2013

ENGINEER'S CERTIFICATION:

I CERTIFY THAT THIS PLAN OF 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 HOWARD SOIL CONSERVATION DISTRICT.

RICHARD TRUELOVE P.E. MD.REG. # 10800

OWNER/DEVELOPER FOX CHAPEL COURT LLC 2965 BROOKWOOD ROAD ELLICOTT CITY, MARYLAND 21042-2501 410-465-2512

REVISIONS

NO.

DESCRIPTION

06_SEDIMENT & EROSION CONTROL DETAIL SHEET **SERIO ESTATES**

TAX MAP 18 2nd ELECTION DISTRICT

PARCEL 59 HOWARD COUNTY, MARYLAND

EXPIRATION DATE: FEBRUARY 10, 2014.

RICHARD TRUELOVE P.E.,Inc. registered civil engineer 13 Elmwood Road SCALE: NOT TO SCALE

Baltimore, Maryland 21210 (410) 323-5279 email: richard@rtpe.com

SHEET 6 OF 7 PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 10800,

SDP-12-082

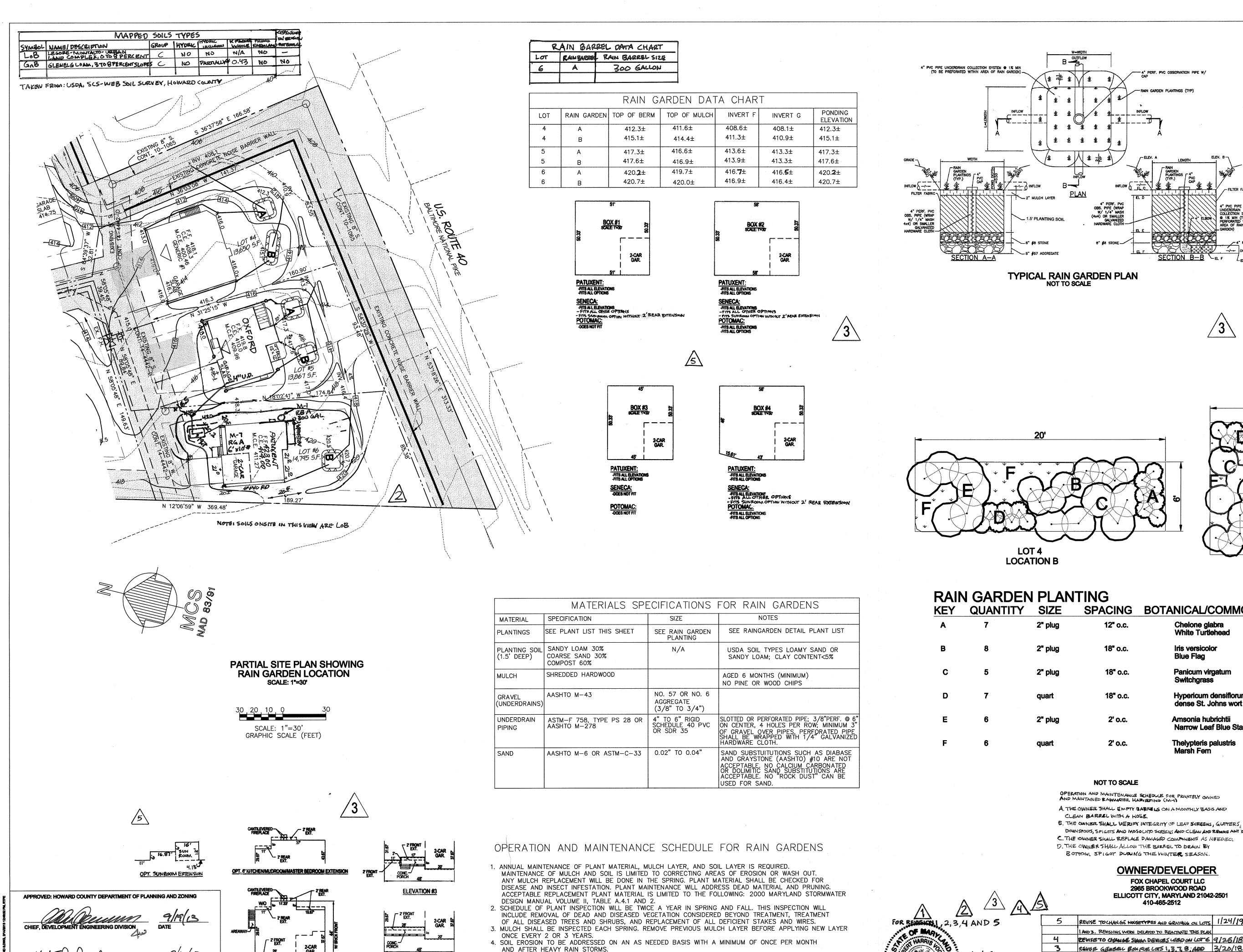
DESIGN BY: TRUELOVE

DRAWN BY: TRUELOVE

CHECKED BY: TRUELOVE

DATE: FEBRUARY 14, 2013

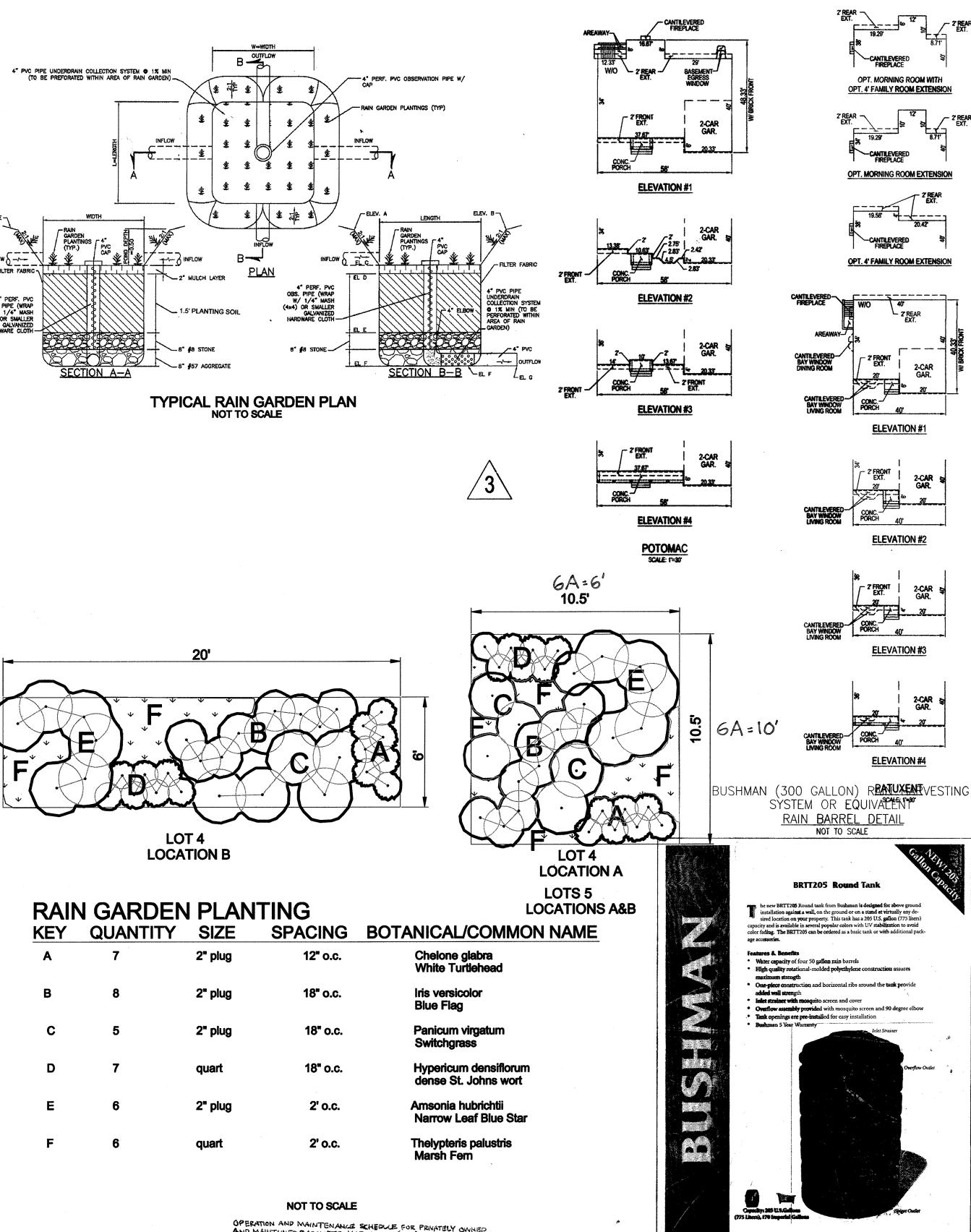
PROJECT#: 2012001



ELEVATION#4

SENECA SCALE: 1'=30'

ELEVATION #1 & #2



A. THE OWNER SHALL EMPTY BARRELS ON A MONTHLY BASIS AND

- Downstours, Spigots and mosquito screens and clean and remove any despess

OWNER/DEVELOPER

REVISE TOCHANGE HOUSETYPES AND GRADING ON LOTS 1/24/19 revise to chance sum devices used on lote 9/25/18 RENGE GENERIC BOX FUEL COS 1,3,7,8; ADD 3/20/18 LOUSE TYPES SEMBLY, DATHERS AND PETEMBLY REVISE HOUSE TYPE AND GRADING 21510 LOT 6; ADD PATUXENT HOUSE TYPE REVISED LOT 5 TO SHOW OXFORD MODEL 07-05-16

DESCRIPTION

REVISIONS

07_RAIN GARDEN PLAN, NOTES, & DETAILS SHEET HOUSE TEMPLATE SHEET SERIO ESTATES **LOTS 1-8**

PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 10800,

REVISED TAX MAP 18 2nd ELECTION DISTRICT RICHARD TRUELOVE P.E., Inc.

PARCEL 59 HOWARD COLINTY, MARYLAND



EXPIRATION DATE: FEBRUARY 10, 2014.

13 Elmwood Road Baltimore, Maryland 21210 (410) 323-5279 email: richard@rtpe.com

DRAWN BY: TRUELOVE CHECKED BY: TRUELOVE SCALE: AS SHOWN DATE: FEBRUARY 14, 2013

PROJECT#: 2012001 HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED

DESIGN BY: TRUELOVE